GOVERNMENTAL AGENCIES

BUILDING DEPARTMENT
City of Lee's Summit
Development Services
220 SE Green Street
Lee's Summit, MO 64063
Phone: 816-969-1200
Contact Name: Joe Frogge
Contact Email:
joe.frogge@cityofls.net

FIRE DEPARTMENT
Lee's Summit Fire Department
207 SE Douglas St.
Lee's Summit, MO 64063
Phone: 816-969-1303
Contact Name: James Eden
Contact Email:
jim.eden@cityofls.net

HEALTH DEPARTMENT
Jackson County Public Works -
Department of Environmental Health
3651 NE Ralph Powell Rd.
Lee's Summit, MO 64064
Phone: 816-847-7073
Contact Name: Kerry Moore
Contact Email:
klmoore@jacksongov.org

BUILDING DATA

BUILDING CODE:
Lee's Summit Building Code
2018 International Building Code
as amended

PLUMBING CODE:
2018 International Plumbing Code
as amended

MECHANICAL CODE:
2018 International Mechanical Code
as amended

ELECTRICAL CODE:
2017 National Electrical Code
as amended

FIRE CODE:
2018 International Fire Code
as amended

ACCESSIBLITY CODE:
ICC/ANSI A117.1-2009, Accessible
and Usable Buildings and Facilities

ENERGY CODE:
2018 International Energy
Conservation Code

NOTE:
REFER TO SHEET G-003 FOR BUILDING CODE DATA, LIFE SAFETY, AND OCCUPANCY SUMMARY.

SCOPE OF WORK

- NEW STRUCTURE
- DRIVE-THRU CANOPY
- ORDER POINT CANOPY
- DUMPSTER PADDOCK

DEFERRED PERMITS

- FIRE ALARM SYSTEM
- FIRE PROTECTION SPRINKLER SYSTEM
- HOOD AND FIRE SUPPRESSION SYSTEMS
- ENGINEERED ROOF TRUSSES
- ENGINEERED FREESTANDING CANOPIES
- EXTERIOR BUILDING SIGNAGE
- PREFABRICATED EXTERIOR AND INTERIOR WALL PANEL SYSTEM

05248
P14 LSR BS
Oldham Village FSU
NEW BUILDING
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

VICINITY MAP

REGION: SOUTHEAST
ATLANTIC
X MIDWEST
NORTHEAST
SOUTHWEST
WEST

DESIGNOTES APPLIED IN CURRENT PROJECT

DESIGNOTE #	REV #	DESCRIPTION
2024-004	0	DISCONTINUING RED PENNY ROUND TILE
2024-005	0	ER TEMPLATE CHANGE - ADD DIMENSIONS LOCATING PRESSURE FRYER HOODS
2024-006	0	PLUMBING SUPPLIER UPDATE
2024-007	0	WOOD FINISHES IN ENTRY VESTIBULES
2024-008	0	EXTERIOR STOREFRONT DETAIL UPDATE
2024-009	0	ADDITION OF TRUSS BEARING CLIP LOAD INFORMATION
2024-010	0	HALTON EXHAUST FAN IMPLEMENTATION
2024-011	0	BEVERAGE SYSTEM REPLACEMENTS FOR ER
2024-012	0	BIOZONE UNIT INSTALL LOCATION
2024-013	0	DRIVE THROUGH PANIC BUTTON
2024-014	0	REFRIGERATED EQUIPMENT STAND MODEL # CORRECTION
2024-015	0	AIR CURTAIN MODEL CORRECTION

ITEMS OF IMPORTANCE

INCLUDED IN PROJECT	ITEM NUMBER	ITEM DESCRIPTION
Yes	1	KNOX BOX IS REQUIRED. COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT.
Yes	2	THE BUILDING SHALL BE FULLY SPRINKLERED WITH FIRE ALARM SYSTEM.
Yes	3	EXTERIOR WALLS TO UTILIZE PREFABRICATED WOOD PANELS DESIGNED AND SUPPLIED BY REDBUILT.
Yes	4	PARAPETS ARE RAISED 24" TO SCREEN THE RTU'S.
Yes	5	1-1/2" RIGID INSULATION IS ADDED AT THE EXTERIOR METAL KITCHEN WALL WITH HOODS TO COMPLY WITH 2018 IECC (MIN. R-13 + R7.5CI). REFER TO INSULATION SCHEDULE ON SHEET A-201.
Yes	6	ROOF INSULATION SHALL MEET A MINIMUM REQUIREMENT R-30CI (TYPICALLY 6" THICK). REFER TO ROOF PLAN AND WALL SECTIONS.
Yes	7	WOOD WALLS TO UTILIZE MIN. R-20 INSULATION TO COMPLY WITH 2018 IECC.REFER TO INSULATION SCHEDULE ON SHEET A-201.
Yes	8	DUAL OMD AND F2F FREESTANDING CANOPY TO BE DESIGNED AND SUPPLIED BY LANE SUPPLY, INC.
Yes	9	SMALL PLAYGROUND INCLUDED IN DESIGN.

ARCHITECT
Chipman Design Architecture Inc.
1350 E Touhy Ave, First Floor East
Des Plaines, IL 60018
Phone: 847.298.6900
Fax: 847.298.6966
Contact Name: Zorana Jovanovic
Contact Email:
zjovanovic@chipman-design.com

STRUCTURAL
Britt Peters & Associates
101 Falls Park Dr. Suite 601
Greenville, SC 26601
Phone: 864.271.8869
Fax: 864.395.1766
Contact Name: Seth Adams
Contact Email:
Sadams@brittpeters.com

MECHANICAL
Kurzynske & Associates
2900 Lebanon Pike, Suite 201
Nashville, TN 37214
Phone: 615.255.5203
Fax: 615.255.5207
Contact Name: Bryce Miller
Contact Email:
Brycem@kurzynske.com

PLUMBING
Kurzynske & Associates
2900 Lebanon Pike, Suite 201
Nashville, TN 37214
Phone: 615.255.5203
Fax: 615.255.5207
Contact Name: Andy Kurzynske
Contact Email:
Andy@kurzynske.com

ELECTRICAL
Dickerson Engineering Inc.
3343 N. Ridge Ave
Arlington Heights, IL 60004
Phone: 847.966.0290
Contact Name: Eric Underwood
Contact Email:
Eric.underwood@dei-pe.com

CIVIL
HR Green
420 North Front St, Suite 100
McHenry, IL 60050
Phone: 815.492.9324
Fax: 815.385.1781
Contact Name: Joseph Vavrina
Contact Email:
jvavrina@hrgreen.com

KITCHEN
TriMark USA
3011 E Industrial Pky,
Knoxville, TN 37921
Phone: 865.545.5284
Name: Shelby Moore
Contact Email:
shelby.moore@trimarkusa.com

FURNITURE
Charter House Innovations
200 N Franklin St.
Zeeland, MI 49464
Phone: 616.796.1020
Contact Email:
Cfa@charter-house.com

SHEET INDEX

SHEET INDEX

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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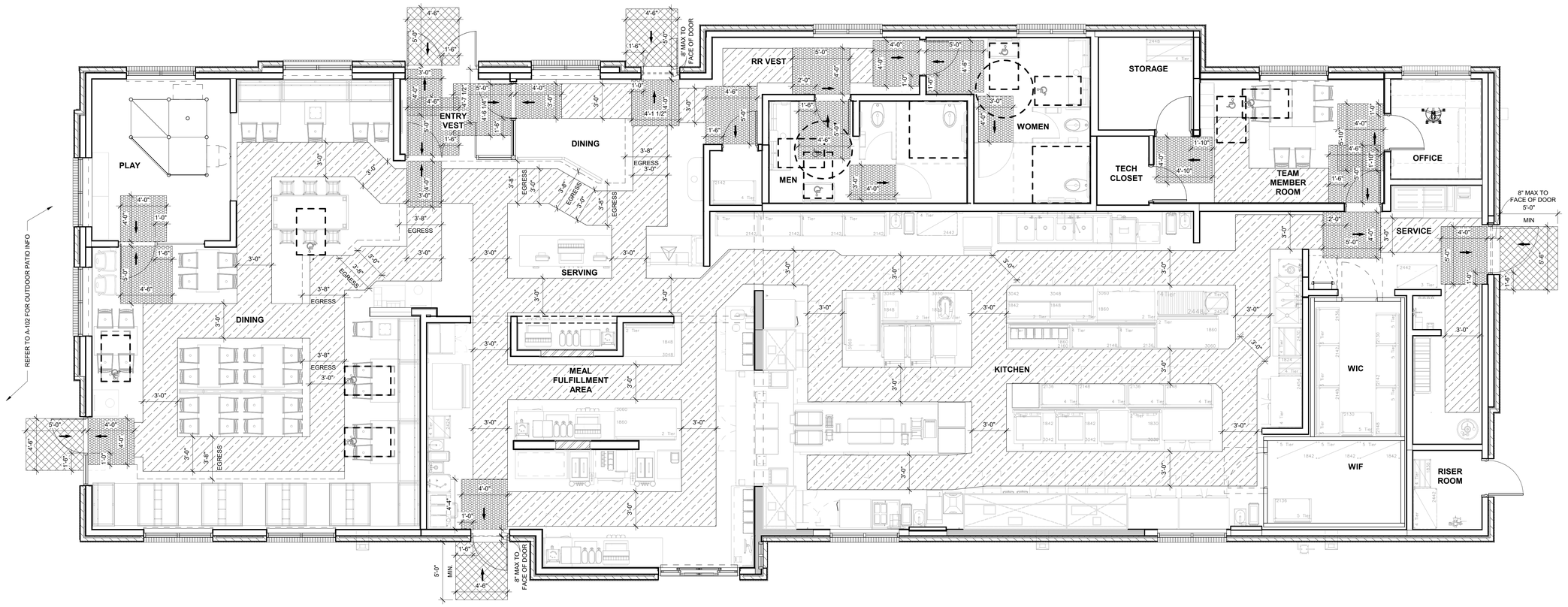
ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY ZJ
CHECKED BY JF

SHEET
COVER SHEET

SHEET NUMBER
G-000

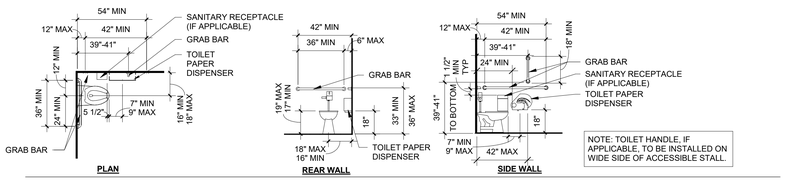


NORTH

C4 ACCESSIBILITY PLAN
1/4" = 1'-0"

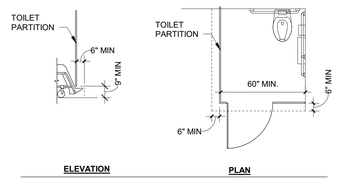
ACCESSIBILITY REQUIREMENTS

NOTE: ALL DIMENSIONS SHOWN HERE ARE FROM FINISH FACE OF WALLS AND FLOORS.

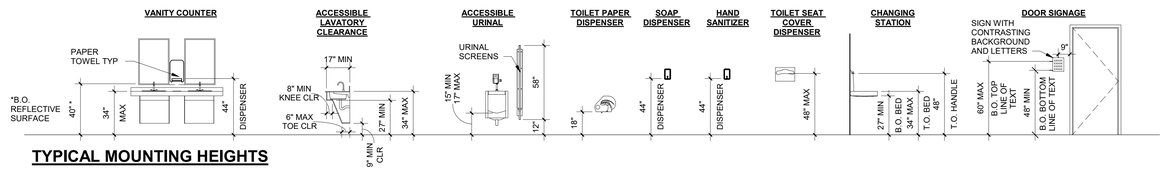


NOTE: TOILET HANDLE, IF APPLICABLE, TO BE INSTALLED ON WIDE SIDE OF ACCESSIBLE STALL.

TYPICAL ACCESSIBLE WATER CLOSET



TYPICAL TOE CLEARANCES



TYPICAL MOUNTING HEIGHTS

ACCESSIBLE SEATING

(2018 IBC SECTION 1108.2.9.1 - MIN. 5% OF DINING SURFACES)

INTERIOR SEATING

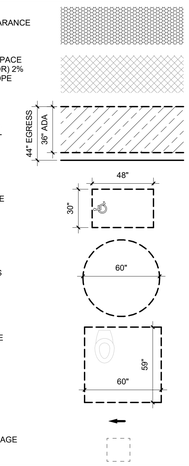
ACTUAL TOTAL NUMBER OF SEATS:	70
NUMBER OF ACCESSIBLE SEATS REQUIRED:	4
NUMBER OF ACCESSIBLE SEATS PROVIDED:	4

EXTERIOR SEATING

(REFER TO SHEET A-102 PATIO PLAN AND DETAILS)

ACTUAL TOTAL NUMBER OF SEATS:	16
NUMBER OF ACCESSIBLE SEATS REQUIRED:	1
NUMBER OF ACCESSIBLE SEATS PROVIDED:	1

ACCESSIBILITY LEGEND



ACCESSIBILITY NOTES

1. ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%
2. IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.
3. ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
4. COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS.
5. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
6. ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F.
7. FLOOR DRAINS LOCATED ALONG ACCESSIBLE ROUTES IN KITCHEN SHALL BE SLOPED NO GREATER THAN 2 %.
8. ALL THRESHOLDS, FLOOR LEVEL CHANGES, AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THE 1:2.
9. ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. U.N.O.
10. FOR CLARIFICATION OF REQUIREMENTS OR QUESTIONS, CALL THE ARCHITECT OF RECORD.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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STATE OF MISSOURI
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CHICK-FIL-A
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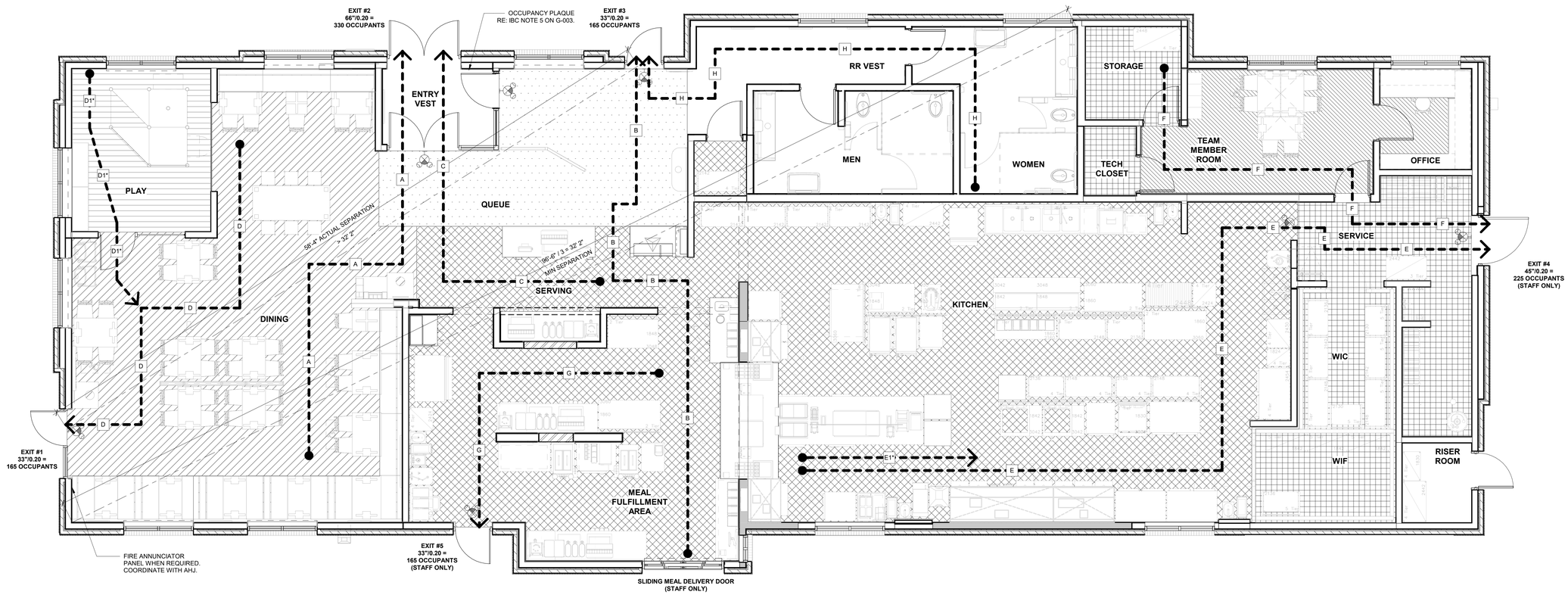
SHEET: ACCESSIBILITY SHEET

SHEET NUMBER **G-002**



FUNCTION OF SPACE

- ASSEMBLY - STANDING
- ASSEMBLY - UNCONCENTRATED
- BUSINESS
- KITCHEN
- PLAY AREA (EXERCISE)
- STORAGE

NORTH

C4 LIFE SAFETY PLAN
1/4" = 1'-0"

FIRE SPRINKLER

2018 INTERNATIONAL FIRE CODE

1. PROVIDE A SUPERVISED AUTOMATIC FIRE SPRINKLER SYSTEM PER 2018 IFC. FIRE SPRINKLER DRAWINGS SHALL BE PREPARED BY FIRE SPRINKLER SUBCONTRACTOR (COPY SUPPLIED TO OWNER). TO BE SIGNED, SEALED AND SUBMITTED AS DEFERRED PERMIT SUBMITTAL.
2. PROVIDE SPRINKLER SYSTEM AS REQUIRED BY 2018 IFC AND LOCATE RISER AS INDICATED IN ARCH/PLUMB PLANS.
3. NO SPRINKLER PIPING TO BE EXPOSED/RAN THROUGH OR ABOVE ANY UNHEATED AREAS AT THE REAR OF THE BUILDING.
4. INSTALL PROTECTION CAGES TO THE SPRINKLER HEADS IN THE WALK-IN COOLER AND FREEZER.
5. SPRINKLER HEADS IN CEILING TILE ARE TO BE CENTERED IN THE TILES.
6. SPRINKLER HEADS IN PUBLIC AREAS TO BE FULLY RECESSED AND CONCEALED WITH A COVER (ACCOUSTICAL AND SHEET ROCK CEILINGS). ALL COVERS WILL BE WHITE WHEN THE CEILING IS WHITE. WHEN CEILING COLOR IS OTHER THAN WHITE, COVERS FINISH TO BE COORDINATED WITH CHICK-FIL-A.
7. SPRINKLER HEADS IN NON-PUBLIC AREAS (KITCHEN, OFFICE, MULTIPURPOSE ROOMS) SHALL BE WHITE FINISH, WITH ESCUTCHEON COLOR TO MATCH. WHEN CEILING COLOR IS OTHER THAN WHITE, FINISHES TO BE COORDINATED WITH CHICK-FIL-A.
8. SPRINKLER PIPE HANGERS AND ATTACHMENTS SHALL MEET REQUIREMENTS OF THE JOIST MANUFACTURER.
9. SPRINKLER DRAIN LINE "BLOW OFF" TO EXTERIOR SHALL BE ROUTED WITH REQUIRED FALL TO THE REAR OF THE BUILDING.
10. ALL SPRINKLER HEADS TO BE FULLY CONCEALED IN ALL CUSTOMER AREAS, AND CUSTOMER VIEW AREAS (ACOUSTIC AND HARD CEILINGS).

FIRE CODE NOTES

2018 INTERNATIONAL BUILDING CODE

1. PROVIDE SPRINKLER SYSTEM WHEN REQUIRED BY LOCAL JURISDICTION AND LOCATE RISER AS INDICATED IN ARCH/PLUMB PLANS.
2. PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
3. PROVIDE FIRE ALARM SYSTEM AS REQUIRED BY 2018 IFC. FIRE ALARM SHOP DRAWINGS TO BE PREPARED BY SUBCONTRACTOR, COPY SUPPLIED TO OWNER, AND SUBMITTED AS DEFERRED PERMIT SUBMITTAL.
4. PROVIDE GLASS TYPES AS SHOWN ON ELEVATIONS, DOOR/WINDOW LEGENDS, AND GLAZING SCHEDULE.
5. PROVIDE #10 ABC GENERAL PURPOSE FIRE EXTINGUISHERS THROUGHOUT BUILDING. QUANTITIES AND LOCATIONS PER LOCAL JURISDICTION. GC TO VERIFY FINALPLACEMENT WITH LOCAL FIRE JURISDICTION.
6. PROVIDE CLASS K FIRE EXTINGUISHERS IN KITCHEN AREAS AS REQUIRED BY 2018 IFC, SECTION 906.4.

BUILDING CODE NOTES

2018 INTERNATIONAL BUILDING CODE

1. PROVIDE FIREBLOCKING WITHIN CONCEALED SPACES PER LOCAL REQUIREMENTS.
2. PROVIDE THERMAL AND SOUND INSULATION WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
3. PROVIDE ROOFING MATERIALS WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
4. PROVIDE CEILING FINISHES WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
5. OCCUPANT LOAD SIGN BY G.C.; PROVIDE 2"X8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING MAXIMUM OCCUPANT LOAD AS INDICATED IN ARCH DRAWINGS.
6. CHICK-FIL-A IS REQUIRING SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

PLUMBING FIXTURE COUNTS

2018 INTERNATIONAL BUILDING CODE/ 2018 INTERNATIONAL PLUMBING CODE

BUILDING OCCUPANT LOAD:	171
OUTDOOR PATIO DINING:	16
TOTAL PLUMBING OCCUPANT LOAD	187
LOAD DISTRIBUTION:	50% MALE AND 50% FEMALE
DISTRIBUTION COUNT:	94 MALE AND 94 FEMALE
LAVATORIES REQUIRED (2018 IBC 2902.1 / 2018 IPC 403.1):	
MALE LAVATORIES:	94 / 200 = 1
FEMALE LAVATORIES:	94 / 200 = 1
LAVATORIES PROVIDED:	
MALE LAVATORIES:	2 (EQUIVALENT)
FEMALE LAVATORIES:	2 (EQUIVALENT)
WATER CLOSETS REQUIRED (2018 IBC 2902.1 / 2018 IPC 403.1):	
MALE WATER CLOSETS:	94 / 75 = 2
FEMALE WATER CLOSETS:	94 / 75 = 2
WATER CLOSETS PROVIDED:	
MALE WATER CLOSETS:	2
FEMALE WATER CLOSETS:	2
SERVICE SINK REQUIRED (2018 IBC 2902.1 / 2018 IPC 403.1):	1
SERVICE SINK PROVIDED:	1

DRINKING FOUNTAIN: NOT REQUIRED, RESTAURANT - WATER PROVIDED

EGRESS

2018 INTERNATIONAL BUILDING CODE

1. REQUIRED WIDTH OF EGRESS
   OCCUPANT LOAD 171 x 0.20 = **34.2"** REQUIRED
2. WIDTH OF EGRESS PROVIDED
   EXIT #1 = 33"
   EXIT #2 = 66"
   EXIT #3 = 33"
   EXIT #4 = 45" (STAFF ONLY)
   EXIT #5 = 33" (STAFF ONLY)
   TOTAL: 210" TOTAL

EGRESS PATH

EGRESS PATH	EGRESS DISTANCE
A	43'
B	51'
C	33'
D	39'
D1*	21'
E	82'
E1*	15'
F	41'
G	29'
H	48'

* - COMMON PATH OF EGRESS

MAX DISTANCE OF TRAVEL:
(2018 IBC, SECTION 1017.2):
250'-0" SPRINKLERED

ACTUAL MAX. PROVIDED: 82'-0"

ASSEMBLY AREA:
COMMON PATH OF EGRESS TRAVEL (2018 IBC 1029.8):
MAX 30'-0" FOR AREAS SERVING 50 OR MORE OCCUPANTS
MAX 75'-0" FOR AREAS SERVING LESS THAN 50 OCCUPANTS
ACTUAL MAX. PROVIDED: 21'-0"

CODE SUMMARY

2018 INTERNATIONAL BUILDING CODE

1.	OCCUPANCY	**A2** (SECTION 303.3)
2.	CONSTRUCTION TYPE	**VB** (SECTION 602.5)
3.	SPRINKLERED	**YES** (SECTION 903.2.1.2)
4.	FIRE ALARM	**YES (AUDIBLE/VISIBLE)**
4.	ALLOWABLE AREA	**24,000 SF** (TABLE 506.2)
	ACTUAL AREA	**5,146 SF** (GROSS)
5.	ALLOWABLE HEIGHT	**60'-0"** (TABLE 504.3)
	ACTUAL HEIGHT	**22'-10"**

OCCUPANT LOAD (LSR-BN) - IBC 2018

Name	Area	Load Factor	Occupants
ASSEMBLY - STANDING	287 SF (NET)	5 SF (NET)	58
ASSEMBLY - UNCONCENTRATED	755 SF (NET)	15 SF (NET)	51
BUSINESS	227 SF (GSF)	150 SF (GSF)	2 CALCULATED (7 ACTUAL)
KITCHEN	2,078 SF (GSF)	200 SF (GSF)	11
PLAY AREA (EXERCISE)	168 SF (GSF)	50 SF (GSF)	4
STORAGE	503 SF (GSF)	300 SF (GSF)	2
TOTALS	4,018 SF		133 (ACTUAL)

OCCUPANT LOAD FIXED SEATING (2018 IBC SECTION 1004.4)		
BENCH TYPE SEATING	LINEAR IN. PER OCC	OCCUPANTS
BANQUETTES	331"/18"	19
BOOTHS	450"/24"	19
TOTAL		38
TOTAL OCCUPANTS BY LOAD AREAS		171
OUTDOOR SEATING* (2018 IBC, TABLE 2902.1-d)		16
*ADDED TO THE OCCUPANCY LOAD COUNT FOR PLUMBING		
OCCUPANT LOAD PER PLUMBING:		187
OCCUPANT LOAD PER EXITING:		171

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SHEET
LIFE SAFETY PLAN

SHEET NUMBER
G-003

NATIONAL ACCOUNTS LIST

PRODUCT	CSI DIVISION	VENDOR	CONTACT	PHONE	EMAIL	U.S. REGIONS
EV CHARGING STATION	C01-000	CHARGEPOINT	WHITNEY SCHMIDT	508- 317-2475	CFA@CHARGEPOINT.COM	AS CONTRACTED, REFER TO SUPPLIER MAP
EV CHARGING STATION	C01-000	EV CONNECT (SCHNEIDER ELECTRIC)	ANDREW DRASKOVICS	908-200-5366	CFA@EVCONNECT.COM; ADRASKOVICS@EVCONNECT.COM	AS CONTRACTED, REFER TO SUPPLIER MAP
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW, W
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	PATTISON SIGN	HELENE HAMMOND, ROGER GHANTOUS	613-247-5379, 613-247-5371	HHAMMOND@PATTISONID.COM, RGHANTOUS@PATTISONID.COM	ALL U.S. REGIONS
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	UNI-STRUCTURES, INC.	CAROLYN WARD	678-974-1759	C.WARD@UNISTRUCTURES.COM	NE, SE, ATL, MW
FLAG POLES	C02-895	THE FLAG COMPANY, INC.	ORDERED VIA SIGN COMPANY	770-974-0507	BMOSES@FLAGCO.COM	ALL U.S. REGIONS
BRICK	C04-810	ACME BRICK	DENEISE KIMBROUGH	866-430-2263	DKIMBROUGH@BRICK.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	CHEROKEE BRICK	PAYNE CLUBB	478-447-0822	PAYNE.CLUBB@CHEROKEEBRICK.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	GLEN-GERY	ALYIZE PIEDRA	412-426-9200, EXT. 7438	PITTSBURGHSALESORDERS@GLENGERY.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	MUTUAL MATERIALS	ANDY MACFARLANE, RYAN MOLLER	425-452-2361, 425-766-6712	CFA@MUTUALMATERIALS.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
WOOD TRUSSES	C06-110	REDBUILT, LLC	ADAM STRITENBERGER FOR TRUSSES ONLY, JAKE SHEPHERD FOR TRUSSES AND WALL PANELS	ADAM: 740-368-4227 AND JAKE: 877-371-0445	ADAM: ASTRITENBERGER@REDBUILT.COM, JAKE: JSHEPHERD@REDBUILT.COM	ALL U.S. REGIONS
INTERIOR WOOD (WALL DÉCOR)	C06-200	SKYLAR MORGAN FURNITURE + DESIGN	CATHERINE JOHNSON	404-565-0537 OPTION 3	CFAORDERS@SKYLARMORGANFURNITURE.COM	ALL U.S. REGIONS
INTERIOR WOOD (WAINSCOTING & SILLS)	C06-220	CFX PRODUCTS	ELEZA MCELVEEN	(404) 363-1665	CHICKFILA@CFXPRODUCTS.COM	NE, SE, ATL
INTERIOR WOOD (WAINSCOTING & SILLS)	C06-220	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	(800)322-7328 EXT 235	MICHELLE.GANSKO@FCCFURN.COM	W, SW, MW
MILLWORK	C06-220	CFX PRODUCTS	SANDRA RENKER, ERIC CRANE (NON-TRADITIONAL)	404-684-8784, 404-460-8043 (NON-TRADITIONAL)	CHICKFILA@CFXPRODUCTS.COM	SE, MW, NE, ATL
MILLWORK	C06-220	FCC COMMERCIAL FURNITURE	CFA SUPPORT STAFF	(800) 322-7328 X 235	CFASUPPORT@FCCFURN.COM	W, SW
METAL ROOF EQUIPMENT STANDS	C07-530	AVCOA	STEVE GILINSON	954-584-6001	STEVE@AVCOAUSA.COM	ALL U.S. REGIONS
ROOFING	C07-540	DURO-LAST	CHRISTY SHORKEY, JASON DARK	(800) 248-0280	CFABIDREQUEST@DURO-LAST.COM; CSHORKEY@DURO-LAST.COM; JDARK@DURO-LAST.COM	ALL U.S. REGIONS
DOORS - BACK OF RESTAURANT	C08-255	ZIGMAN SALES/SPECIAL-LITE	ZIGMAN SALES LLC.	(888) 584-1303 (678)-974-3127	ZIGMANPRODUCTS@YAHOO.COM	ALL U.S. REGIONS
STOREFRONT SYSTEM	C08-411	KAWNEER	CHERYL WILKERSON	317-771-9263	CHERYL.WILKERSON@ARCONIC.COM	AS CONTRACTED
STOREFRONT SYSTEM	C08-411	YKK AP	CONTACT LOCAL BRANCH	800-955-9551	CFA@YKKAP.COM	AS CONTRACTED
DOORS - DRIVE-THRU	C08-460	ASSA ABLOY	ROSS MERKLING	(704) 221-2068	CFA@ASSAABLOY.COM	MW, NE, ATL
DOORS - DRIVE-THRU	C08-460	TORMAX	TORMAX CFA TEAM	210-447-1136; 210-494-3551 (NON-TRADITIONAL)	NATIONALACCOUNTS@TORMAXUSA.COM	W, SW, SE
DRIVE-THRU WINDOW UNIT	C08-500	QUIKSERV CORP.	BRIAN COBLE - SERVICE & WARRANTY, BRIAN MCCLOSKEY (NON-TRADITIONAL)	713-849-5882	BMCCLOSKEY@QUIKSERV.COM, BKCOBLE@QUIKSERV.COM (NON-TRADITIONAL)	ALL U.S. REGIONS
DOORS - HM & P-LAM	C08-710	DH PACE	TRISH ROBERTS	417.831.5585	CHICKFILADOORS@DHPACE.COM	ATL, NE, MW
DOORS - HM & P-LAM	C08-710	LOCKNET	LOCKNET CFA ACCOUNT TEAM	859-354-4323	CFA@LOCKNET.COM	SE, SW, W
DOORS - KITCHEN	C08-710	ELIASON	ANN SPRANDEL	(513) 967-3381	ASPRANDEL@SENNECA.COM	ALL U.S. REGIONS
TILE AND GROUT	C09-310	CREATIVE MATERIALS CORP	SHANNON MCCARTY	1-800-207-2967 X CHIK (2445)	CHICKTILE@CREATIVEMATERIALSCORP.COM	ATL, NE, MW
TILE AND GROUT	C09-310	DALTILE	KELLY GARCIA	877-556-5728	CHICK-FIL-A@DALTILE.COM	SE, W, SW
PLAYGROUND FLOORING	C09-330	PROJECT INNOVATIONS, INC.	PETER GRIFFIN	855-650-6818	PETE@MYUSAPROJECTS.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
PLAYGROUND FLOORING	C09-330	THE PLAYGROUND GUYS	ROBERT PARENT	772-215-8856	THEPGGUYS@AOL.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
CEILING TILE	C09-510	CERTAINTEED	PATRICK SZUBA	248-705-8261	PATRICK.J.SZUBA@SAINT-GOBAIN.COM	ALL U.S. REGIONS
CEILING TILE	C09-510	USG	TRAVIS TOMANEK	440.541.3972	TTOMANEK@USG.COM	ALL U.S. REGIONS
FRP PANELS	C09-770	MARLITE	ANITA CRAIG	330-260-7621	ACRAIG@MARLITE.COM	ALL U.S. REGIONS
CORNER GUARDS	C10-265	KOROSEAL	NATIONAL ACCOUNTS DESK	(866) 628-2280 EXT 1	NA@KOROSEAL.COM	ALL U.S. REGIONS
BABY CHANGING STATIONS	C10-280	RUBBERMAID	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
SIGNAGE	C10-420	ANCHOR SIGN	MEGAN JACKSON	843-576-3289	CFA@ANCHORSIGN.COM	NE (NEW ENGLAND STATES ONLY)
SIGNAGE	C10-420	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW AND AS CONTRACTED IN MW
SIGNAGE	C10-420	CLAYTON SIGNS	TAMMY TURNER	404-361-3800 X423	TAMMYTURNER@CLAYTONSIGNS.COM	SE, ATL, NE (NON NEW ENGLAND STATES) AND AS CONTRACTED IN MW
SIGNAGE	C10-420	NATIONAL SIGN & MARKETING CORPORATION	RACHEL ESPINOSA, RHONDA ROBINSON, DJ KELHI OR STEVE ROSENBLOOM	909-591-4742 OR 909-322-5479	CFATEAM@NSMC.COM, RESPINOSA@NSMC.COM, RROBINSON@NSMC.COM, DKELHI@NSMC.COM STEVER@NSMC.COM	W
BUILDING AWNINGS & CANOPIES	C10-440	AWNEX	MARK WILLIAMS – INSTALLATION MANAGER IRENE WILKINS – CFA PROJECT MANAGER CARRIE FOWLER – ESTIMATOR MOLLY DARWIN – SALES ADMIN	770-704-7140 EXT. 113	CFA@AWNEXINC.COM	NE, MW
BUILDING AWNINGS & CANOPIES	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW
BUILDING AWNINGS & CANOPIES	C10-440	NATIONAL SIGN & MARKETING CORPORATION	RHONDA ROBINSON	909-591-4742	CFATEAM@NSMC.COM	W
BUILDING AWNINGS & CANOPIES	C10-440	UNI-STRUCTURES, INC.	CAROLYN WARD	678-974-1759	C.WARD@UNISTRUCTURES.COM	SE, ATL
CANOPY FANS & HEATERS	C10-440	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	FASHION, INC.	CADE BELL	785-242.8111	CADE@FASHIONINC.COM	NE, ATL, SE
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	LANE SUPPLY INC	LARRY TOLBERT	704.573.0977	LTOLBERT@LANESUPPLYINC.COM	SW, W, MW
EXTERIOR DIGITAL MENU BOARD ENCLOSURE	C10-440	PATTISON SIGN	HELENE HAMMOND, ROGER GHANTOUS	613-247-5379, 613-247-5371	HHAMMOND@PATTISONID.COM, RGHANTOUS@PATTISONID.COM	ALL U.S. REGIONS
TOWEL / TISSUE DISPENSERS	C10-800	SAN JAMAR	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
RESTROOM PARTITIONS	C10-810	CFX PRODUCTS	ELEZA MCELVEEN, STEVE SAMUELSON (NON-TRADITIONAL)	404-684-8782, 404-684-8783 (NON-TRADITIONAL)	CHICKFILA@CFXPRODUCTS.COM	AS CONTRACTED
RESTROOM PARTITIONS	C10-810	DH PACE	JOE KELLY	417-831-5585	CHICKFILADOORS@DHPACE.COM	ATL, NW, MW
RESTROOM PARTITIONS	C10-810	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328 X 235	MICHELLE.GANSKO@FCCFURN.COM	AS CONTRACTED
RESTROOM PARTITIONS	C10-810	LOCKNET	LOCKNET CFA ACCOUNT TEAM	859-354-4323	CFA@LOCKNET.COM	AS CONTRACTED
CHANGE SAFE - FRONT COUNTER	C11-020	AMERICAN SECURITY PRODUCTS CO. (AMSEC)	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
SECURITY	C11-020	ADVANCED PROJECT SOLUTIONS LLP	BRIGITTE MCNEAL	608-222-1111 X 7243	CHICKFILA@ADVANCEDPROSOLUTIONS.COM	MW
STAINLESS STEEL TABLES	C11-400	ATLANTA CUSTOM FABRICATORS	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ATL, NE, SE
STAINLESS STEEL TABLES	C11-400	EAGLE	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
SHELVING	C11-410	INTERMETRO	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
CO2 TANKS	C11-430	CHART	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
BIOZONE DEVICE	C11-435	BIOZONE	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
WALK-IN COOLERS / FREEZERS	C11-435	HEATCRAFT	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ATL, NE, SE, SW, W
WALK-IN COOLERS / FREEZERS	C11-435	NORLAKE	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	MW
WALK-IN COOLERS / FREEZERS	C11-435	THERMOKOOL	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ATL, NE, SE, SW, W
DINING ROOM COMPACTORS	C11-440	COMPACTION TECHNOLOGIES	JOSHUA JOHNSON	612-230-2216	JJOHNSON@COMPACTIONTECHNOLOGIES.COM	OPERATOR CHOICE
DINING ROOM COMPACTORS	C11-440	HARMONY	NICK ROBERTS	951-221-8627	NROBERTS@HARMONY1.COM	OPERATOR CHOICE
DINING ROOM COMPACTORS	C11-440	ORWAK	STUART HERMAN	804-551-1108	STUART.HERMAN@ORWAKBALERS.COM	OPERATOR CHOICE
DISHWASHERS	C11-440	CHAMPION	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	W
DISHWASHERS	C11-440	HOBART	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	MW, NE, ATL, SE, SW
KITCHEN COMPACTORS & BALERS	C11-440	MIL-TEK	DAN PERTI	703-584-4316	SUPPLIES@MILTEKUSA.COM	OPERATOR CHOICE
KITCHEN COMPACTORS & BALERS	C11-440	ORWAK	STUART HERMAN	804-551-1108	STUART.HERMAN@ORWAKBALERS.COM	OPERATOR CHOICE
INDOOR FURNITURE & DÉCOR	C12-500	A BETTER WAY MINISTRIES	ORDERED VIA CHI OR FCC PACKAGE	470-506-4452	COREYROGERSABW@GMAIL.COM	ALL U.S. REGIONS
INDOOR FURNITURE & DÉCOR	C12-500	CHARTER HOUSE INNOVATIONS	DEDICATED CFA TEAM	616-796-1020	CFA@CHARTER-HOUSE.COM	SE, MW, NE, ATL
INDOOR FURNITURE & DÉCOR	C12-500	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328 X 235	MICHELLE.GANSKO@FCCFURN.COM	W, SW
INDOOR FURNITURE & DÉCOR	C12-500	OSI	ORDERED VIA CHI OR FCC PACKAGE	859-653-3891	MSUCHER@YOURONESOURCE.COM	ALL U.S. REGIONS
INDOOR FURNITURE & DÉCOR	C12-500	PORTICO	ORDERED VIA CHI OR FCC PACKAGE	0	0	ALL U.S. REGIONS
ROLLER SHADES	C12-500	BUDGET BLINDS COMMERCIAL	ANGELA CARSWELL	949-404-1140	ANGELA.CARSWELL@GOHFC.COM	AS CONTRACTED
ROLLER SHADES	C12-500	CWC GROUP	RICHARD PELL	704-201-7379	RPELL@COMMERCIALWINDOWCOVERING.COM	AS CONTRACTED
ROLLER SHADES	C12-500	ROLL-A-SHADE, INC.	CRYSTAL QUINTERO	951.459.0388	CFA@ROLLASHADE.COM	AS CONTRACTED
OUTDOOR FURNITURE	C12-540	BENCHMARK CONTRACT FURNITURE	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
OUTDOOR FURNITURE	C12-540	TUUCI	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	-
SINKS	C15-300	EAGLE	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
PLUMBING FIXTURES	C15-400	FERGUSON	FERGUSON TEAM	844-868-8060	NA.PROJECTS@FERGUSON.COM	W, SW
PLUMBING FIXTURES	C15-400	HJC, INC.	ASK FOR THE CHICK-FIL-A CUSTOMER SERVICE REP	800-459-7099	CF@HJCINC.COM	ATL, NE, SE, MW
WATER TREATMENT	C15-400	KINETICO	HOLLY CUMMINGS	440-564-9111	COMMERCIAL@KINETICO.COM	ALL U.S. REGIONS
DT WINDOW/DOOR ELECTRIC HEATER	C15-700	BROMIC	JOHN GUINN	314-633-0415	JOHN.GUINN@VILLALIGHTING.COM	ALL U.S. REGIONS
OIL RECLAMATION SERVICES	C15-700	DAR-PRO	CARTER GREESON	404-308-1981	CGREESON@DARLINGII.COM	ALL U.S. REGIONS
AIR CURTAINS	C15-715	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
AIR DEVICES	C15-715	POWERS OF ARKANSAS	ELLIOT SPECHT	877-274-7127	CFAQUOTES@POWERS-HVAC.COM	SW
AIR DEVICES	C15-715	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
HVAC SYSTEM – ROOFTOP UNITS	C15-730	LENNOX INDUSTRIES INC	LENNOX NATIONAL ACCOUNTS PARTS TEAM	800-906-4427	LNXNATIONALACCOUNTSPARTS@LENNOXIND.COM	ATL,SE,SW,W
HVAC SYSTEM – ROOFTOP UNITS	C15-730	TRANE	SCOTT ROWLEY	630-200-7155	CFA@TRANE.COM	NE, MW
EXHAUST HOODS	C15-836	HALTON USA	PHIL MEREDITH	270-237-5600	CFA.US@HALTON.COM	ALL U.S. REGIONS
TEST & BALANCE	C15-950	NATIONAL TAB INTELLIGENCE	LAURA ROBINSON	855-682-6822 EXT 3	CFA@NATIONALTAB.COM	MW, NE, ATL, SE
TEST & BALANCE	C15-950	QUALITY TAB SERVICES, LLC	KATIE LOVVORN	864-603-3338	CFA@QTABSERVICES.COM	ALL U.S. REGIONS
TEST & BALANCE	C15-950	UNITED TAB	WILLIAM CLAYTON	800-213-2195X703	CFA@UTAB.US	W, SW
DINING ROOM SPEAKERS	C16-000	MOOD MEDIA	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
BUILDING AUTOMATION AND CONTROL SYSTEMS	C16-200	SUNCOAST ENVIRONMENTAL CONTROLS	TOBY AXMAN	(877) 544-6679	SECONTROLSTDA@AOL.COM	ALL U.S. REGIONS
SWITCHGEAR	C16-200	VILLA LIGHTING	PRESTON PLAMBECK	314-633-0413	PRESTON.PLAMBECK@VILLALIGHTING.COM	ALL U.S. REGIONS
LIGHTING PACKAGE	C16-500	VILLA LIGHTING	LAUREN STAHLHUTH	314-633-0488	LAUREN.STAHLHUTH@VILLALIGHTING.COM	ALL U.S. REGIONS
FLY LIGHTS	C16-530	PESTWEST	TRIMARK STRATEGIC	229-903-3703	TAMMY.DUNCAN@TRIMARKUSA.COM	ALL U.S. REGIONS
DRIVE-THRU HEADSET	C16-700	MOOD MEDIA	BRIDGETTE MANN, MARY NIRENBERG	800-316-8000	STRATEGIC-CFA@MOODMEDIA.COM	ALL U.S. REGIONS
MUSIC	C16-880	MOOD MEDIA	TRIMARK STRATEGIC	229-903-3703; NON-TRADITIONAL: 229-903-3697	TAMMY.DUNCAN@TRIMARKUSA.COM; NON-TRADITIONAL: AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS

CFA VENDOR LIST
NOT MAINTAINED BY NATIONAL ACCOUNTS

PRODUCT	CSI DIVISION	VENDOR	CONTACT	PHONE	EMAIL	U.S. REGIONS
IRRIGATION	C02-810	RAINBIRD	DONN MANN	520-904-1146	DMANN@RAINBIRD.COM	ALL U.S. REGIONS
DRIVE-THRU WINDOW	C08-580	QUIK SERV	BRIAN MCCLOSKEY	832-792-2646	BMCCLOSKEY@QUIKSERV.COM	ALL U.S. REGIONS
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-6773	MSMITH@KOROSEAL.COM	ALL U.S. REGIONS
POS SYSTEMS 2	C11-020	CHICK-FIL-A IT	SCOTT SKIPPER	404-684-8524	NONE	ALL U.S. REGIONS
POS WIRING AND SECURITY	C11-020	STAR ASSET SECURITY	ASHLEY HICKMAN	877-801-1616	CFATEAM@SECURETHINKING.COM	ALL U.S. REGIONS
DEX TABLES & COUNTERS (WHEN REQD.)	C12-560	DEX INDUSTRIES	SHANNON PHILLIPS	404-753-0600	CUSTOMERSERVICE@DEXINDUSTRIES.COM	ALL U.S. REGIONS
MESSAGING (INTERIOR)	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960	JULIA.WOODWARD@CHARTER-HOUSE.COM	ALL U.S. REGIONS
MESSAGING (INTERIOR)	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	541-464-5235	MICHELLE.GANSKO@FCCFURN.COM	ALL U.S. REGIONS
STEEL WALL FABRICATION	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960	JULIA.WOODWARD@CHARTER-HOUSE.COM	ALL U.S. REGIONS
STEEL WALL FABRICATION	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	541-464-5235	MICHELLE.GANSKO@FCCFURN.COM	ALL U.S. REGIONS
MOP SINK GRATE & TRIM	C15-405	LOWTEMP	ANGIE NORRIS	770-478-8803	ANORRIS@LOWTEMPIND.COM	ALL U.S. REGIONS

RESPONSIBILITY SCHEDULE

DESCRIPTION	DOES NOT APPLY	EXST. TO REMAIN	GC FURN.	GC INSTALL	GC DELIVER ASSEMBLE LOCATE	OWNER FURN.	OWNER INSTALL	LANDLORD FURN.	LANDLORD INSTALL	LANDLORD DELIVER ASSEMBLE LOCATE	COMMENTS
FIELD ENGINEERING			o	o	o						
PROJECT PROCEDURES, PROJECT CLOSEOUT			o	o	o						
TEMPORARY POWER / FACILITIES,SERVICES AND CONTROLS			o	o	o						
TEMPORARY BARRICADES			o	o	o						
PERMITS/INSPECTIONS			o	o	o						
PROTECTION OF SITE WORK AND ADJACENT CONSTRUCTION			o	o	o						
UNLOADING OF ALL OWNER SUPPLIED ITEMS					o						
DISPOSAL OF CRATING / PACKING MATERIALS					o						
DEMOLITION WORK			o	o	o						
FLOOR & ROOF PENETRATIONS			o	o	o						
CONCRETE			o	o	o						MAKE SLAB LEVEL, SMOOTH & READY TO ACCEPT INTERIOR FLOOR FIN.
MASONRY			o	o	o						
GRANITE/STONE			o	o	o						
STRUCTURAL FRAMING SYSTEMS/ SUPPORTS			o	o	o						
COURTESY ROOF FRAMING INSPECTION			o								CONTACT REP IN NAT. ACCOUNT SCHED - SEE FRAMING PLAN FOR ADDITIONAL INFO
ROOFING MATERIALS (MEMBRANE, FLASHING, SEALANT, ETC.)			o	o	o						INCLUDES SNOW GUARDS ON METAL ROOFS, WHERE REQUIRED REGIONALLY
STAIRS - COMPLETE SYSTEM (HANDRAILS, NOSING STRIPS ETC.)			o	o	o						
PATIO RAILINGS, TREILLAGE, & RETAINING WALLS			o	o	o						
PATIO TABLES, CHAIRS, UMBRELLAS						o	o				
ROUGH CARPENTRY & ALL BLOCKING			o	o	o						
MILLWORK - CABINETS						o	o				
INSULATION, FIRESTOPPING, SEALANT & BACKER ROD			o	o	o						
VAPOR / AIR BARRIERS / FLASHING			o	o	o						AS REQUIRED
WATERPROOF MEMBRANE			o	o	o						INCL. FLOOR PREP & SEALING. PROVIDE MOISTURE TESTS AT SLAB AS REQ'D. BY FLOORING MANUF. SPECS. TO ENSURE NEW FLOORING IS INSTALLED AS REQ'D.
ELIASON DOOR, DOOR FRAME & HARDWARE			o	o	o						GC TO PLACE ORDER THROUGH DOOR VENDOR LISTED IN NATIONAL ACCOUNTS SCHED.
SPECIALTY DOOR, DOOR FRAME & HARDWARE & SEALS			o	o	o						INCL. REAR KITCHEN DOORS, HARDWARE PROVIDED BY GC. SEE DOOR SCHEDULE
DOORS, DOOR FRAMES, TRIM & HARDWARE & SEALS			o	o	o						SEE NOTE #8
ACCESS PANELS			o	o	o						
STOREFRONT & GLAZING			o	o	o						INCLUDES STOREFRONT ENTRY DOORS & ANY SOLAR SUNSHADE DEVICES
GLASS			o	o	o						
CABINET HARDWARE & ACCESSORIES						o	o				
GYPSUM BOARD ASSEMBLIES			o	o	o						INCLUDES PREPARATION & REPAIR TO DAMAGED WALLS
METAL STUD/GYP BD (INTERIOR)			o	o	o						
PLAYGROUND EQUIPMENT						o	o				
FURNITURE						o	o				GC TO CORE DRILL FOR FURNITURE
DEX TABLES & COUNTERS (WHEN REQ'D.)			o	o	o						PROVIDED BY DEX, ORDERED BY GC. REFER TO PLANS
CEILINGS, SOFFITS, CEILING TILE & GRID			o	o	o						INCLUDES CEILING PREPARATION & SEALING.
PREFABRICATED LAMINATED SOFFITS						o	o				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
PAINTING			o	o	o						INCLUDES WALL PREPARATION & SEALING.
STAINED / INTEGRAL COLOR CONCRETE & SEALERS			o	o	o						INCLUDES FLOOR PREPARATION & SEALING.
MILLWORK CURBS				o	o						INCLUDES FLOOR PREPARATION & SEALING.
FLOOR TILE & TRIM			o	o	o						INCLUDES FLOOR PREPARATION & SEALING.
TILE, VINYL & WOOD WALL BASES			o	o	o						SEE FINISH PLANS FOR LOCATIONS
WALL TILE & TRIM			o	o	o						INCLUDES INSTALLATION OF INTEGRATED OWNER SIGNAGE/GRAPHICS
TILED LOW WALLS			o	o	o						COORDINATE WITH OWNER FOR PRICING PRIOR TO ORDERING
ALL TILE SETTING MATERIALS, GROUT & ACCESSORIES			o	o	o						GC TO ORDER THRU NA VENDOR
FLOOR TRANSITION STRIPS			o	o	o						
STAINLESS STEEL PANELS & TRIM			o	o	o						INCLUDES WALL PREPARATION & SEALING.
STAINLESS STEEL CORNER GUARDS			o	o	o						INCLUDES ADHESIVES AND/OR MECHANICAL FASTENERS
FRP & TRIM			o	o	o						INCLUDES WALL PREPARATION & SEALING.
WAINSCOT & TRIM (INCLUDES SOLID SURFACE WINDOW SILL)				o	o	o					G.C. TO ORDER MATERIAL FROM WOOD DECOR PROVIDER. INCL. WALL PREP. & SEALING.
PREFINISHED WHITE OAK WOOD BOARDS			o	o	o						GC TO ORDER DIRECTLY FROM SKYLAR MORGAN
TRASH DUMPSTERS						o	o				OPERATOR TO COORDINATE WITH LOCAL AUTHORITIES
WOOD COUNTERTOP, SHELVING, & LAMINATE						o	o				MILLWORKER TO STAIN & SEAL AS REQUIRED
SOLID SURFACE COUNTERTOP						o	o				
COMPUTER EQUIPMENT/SYSTEM						o	o				
CABINETS & DISPLAY CASES						o	o				
CAULKING CABINETS & MILLWORK						o	o				
SETTING / LEVELING OF CABINETS & MILLWORK						o	o				
SHELVING						o	o				
LOCKERS						o	o				
DECORATIVE MIRRORS						o	o				
INTERIOR SIGNAGE						o	o				
INTERIOR MENUBOARD						o	o				INSTALLED BY STRATEGIC EQUIPMENT
INTERIOR GRAPHICS / ART WORK						o	o				SEE TILED LOW WALLS
EXTERIOR SIGNAGE						o	o				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR MENU BOARDS/ ORDER POINT						o	o				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR MENU BOARDS/ ORDER POINT FOOTING			o	o	o						INCLUDING REBAR AND ANCHOR BOLTS - INSTALL AT SAME TIME AS CANOPY FOOTINGS
EXTERIOR CANOPIES & ATTACHMENT ACCESSORIES						o	o				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
OUTSIDE MEAL DELIVERY CANOPY & FOUNDATION						o	o				BY VENDOR, UTILITY HOOK-UPS BY GC. UNDER SEPARATE PERMIT COORD. BY GC. FOUNDATION DETAILS RE: STRUCTURAL
DRIVE-THRU CANOPY & FOUNDATIONS						o	o				BY VENDOR, UTILITY HOOK-UPS BY GC. UNDER SEPARATE PERMIT COORD. BY GC.
DOOR/ WINDOW CANOPIES & ATTACHMENT ACCESSORIES						o	o				BY VENDOR, UTILITY HOOK-UPS BY GC. UNDER SEPARATE PERMIT COORD. BY GC.
EXTERIOR WALL ASSEMBLY			o	o	o						
EXTERIOR FINISHES			o	o	o						
FIRE SUPRESSION SYSTEM						o	o				
GREASE INTERCEPTOR			o	o	o						
3-COMPARTMENT SINK AND/OR 4-COMPARTMENT SINK						o	o				CONNECTIONS AND HOOK-UP BY G.C.
HAND SINKS						o	o				CONNECTIONS AND HOOK-UP BY G.C.
MOP BASIN			o	o	o						
HOT WATER HEATER			o	o	o						
KITCHEN HOOD W/ LIGHTS & FILTERS				o	o	o					
ALL KITCHEN/OTHER EQUIPMENT NOT LISTED ON SCHEDULE.						o	o				INSTALL PER DWGS. CONFIRM DELIVERY DATES WITH OWNER
FIRE EXTINGUISHERS						o	o				G.C. TO COORD. WITH FIRE MARSHAL FOR FE LOCATION AND HALTON FOR FE INSTALL.
AIR CURTAIN			o	o	o						G.C. TO PURCHASE THRU VENDOR
WATER FILTRATION				o	o	o					G.C. TO CONTACT AND COORDINATE WITH KINETICO FOR INSTALLATION
WINDOW TREATMENTS			o	o	o						G.C. TO PURCHASE THRU VENDOR
HVAC UNITS			o	o	o						
MAKE UP AIR UNIT			o	o	o						
HVAC DISTRIBUTION / GRILLES, DIFFUSERS & EXTERIOR LOUVERS			o	o	o						
ALL HVAC, INCLUDING BALANCING			o	o	o						PRIOR TO OWNER ACCEPTING OF SPACE FROM GC
ALL GAS			o	o	o						
ALL PLUMBING INCLUDING SEWER			o	o	o						COORDINATE PLBG. HOOK-UP LOCATION WITH UTILITY PROVIDER
WATER SUPPLY DISTRIBUTION			o	o	o						COORDINATE WATER METER REQUIREMENTS WITH UTILITY PROVIDER
SANITARY VENTS			o	o	o						
UTILITIES TO ROOF / BASEMENT			o	o	o						
SPRINKLER SYSTEM DISTRIBUTION INC. DESIGN, HEADS & ACCS.			o	o	o						G.C. TO COORDINATE W/ FIRE SPRINKLER SUB.
WIRING, CONDUIT & J-BOXES FOR FIXTURES & EQUIPMENT			o	o	o						
SERVICE/MAIN/ SUB-PANELS/ TRANSFORMERS			o	o	o						
ADD'L SUB-PANELS DISTR. J-BOXES, WIRING, CONDUIT&OUTLETS			o	o	o						
EXIT SIGN WIRING CONDUIT & TIME CLOCKS			o	o	o						
WIRING, CONDUIT & J-BOX FOR INT. LIGHTING. AND TIMERS			o	o	o						
INTERIOR GENERAL LIGHTING W/LAMPS			o	o	o						
INTERIOR ACCENT LIGHTING W/ LAMPS			o	o	o						COORD. W/ OWNER
EXIT & EMERGENCY LIGHTING			o	o	o						
EXTERIOR LIGHTING			o	o	o						
POWER REQUIREMENTS FOR MECH. EQUIPMENT			o	o	o						
TELEPHONE SERVICE CONDUIT STUB			o	o	o						
ALL PHONE, DATA & SECURITY EQUIPMENT						o	o				
ALL PHONE, DATA & SECURITY WIRING, COVERPLATES						o	o				COORD. W/ OWNER
ALL PHONE, DATA & SECURITY CONDUIT, J-BOXES			o	o	o						
FIRE ALARM SYSTEM						o	o				PAY FOR AND SET UP INITIAL TESTING FOR THE INSPECTOR, UNDER SEPARATE PERMIT. PER DISCUSSIOIN WITH WILLIAM OPPERMANN, OWNER TO COORDINATE INSTALLATION AND SETUP OF FIRE ALARM SYSTEM WITH THE CFA-DESIGNATED SECURITY VENDOR.
RESTROOM PLUMBING FIXTURES AND ACCESSORIES			o	o	o	o					SEE RESTROOM SCHEDULE
ALL SMALL-WARES SUCH AS, BUT NOT LIMITED TO, MOP RACKS, KNIFE HOLDERS, ETC.				o		o					COORDINATE LOCATION WITH CONSTRUCTION CONSULTANT AND OPERATOR
TERMITE PRE-TREAT			o	o	o						
BIKE RACK			o	o	o						

RESPONSIBILITY NOTES

1. THE RESPONSIBILITY SCHEDULE IS A GENERAL LIST FOR REFERENCE ONLY. ALL ITEMS NOT LISTED OR OTHERWISE NOTED SHALL BE PROVIDED, INSTALLED, DELIVERED, AND ASSEMBLED BY THE G.C.
2. G.C. TO COORDINATE DELIVERY SCHEDULE AND INSTALLATION OF ALL OWNER SUPPLIED ITEMS WITH OWNER/ OWNER'S REP.
3. ALL INSTALLATION AND FINAL HOOK-UP OF EQUIPMENT/ MATERIALS BY G.C. UNLESS OTHERWISE NOTED.
4. G.C. TO REMOVE ALL EQUIPMENT AND MATERIALS BY OWNER FROM TRUCK, PLACE ON SITE AND HOOK-UP, TYP UNLESS OTHERWISE NOTED.
5. G.C. TO COORDINATE LOCATION OF ALL RECEPTACLE, SWITCH, OTHER HEIGHTS WITH COUNTER AND EQUIPMENT HEIGHTS.
6. G.C. TO COORDINATE ALL FACE PLATES, RECEPTACLE COVERS, CEILING PLATES, DIFFUSERS, ETC TO MATCH THE FINAL WALL COLOR AS CLOSELY AS POSSIBLE, U.N.O.
7. G.C. TO PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT, POWER, GAS, WATER, WASTE, ETC.
8. ALL HARDWARE IS PROVIDED BY THE DOOR VENDOR LISTED IN THE NATIONAL ACCOUNTS SCHEDULE, EXCLUDING THE HARDWARE FOR THE FOLLOWING DOORS: EXTERIOR STOREFRONTS, PLAY AREA DOOR AND BOTH THE EXTERIOR AND INTERIOR SERVICE YARD DOORS.

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5200 Buffington Road
Atlanta, Georgia
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CHIPMAN DESIGN ARCHITECTURE INC
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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
ARCHITECT
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
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DRAWN BY MH
CHECKED BY JF

SHEET
RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE
SHEET NUMBER
G-004

ABBREVIATIONS:

A.B.	ANCHOR BOLT
A.C.I	AMERICAN CONCRETE INSTITUTE
ACOUST.	ACOUSTICAL
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADH.	ADHESIVE
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT.	ALTERNATE
AL./ALUM.	ALUMINUM
AMP.	AMPERE
ANOD.	ANODIZED
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
AVG.	AVERAGE
B/	BOTTOM OF
BD.	BOARD
BEV.	BEVERAGE
BLDG.	BUILDING
B.F.P.	BACK FLOW PREVENTOR
BLK.	BLACK
BLK'G.	BLOCKING
BRG.	BEARING
BRKT.	BRACKET
BTM.	BOTTOM
C.F.M.	CUBIC FEET PER MINUTE
C.G.F.	COMPACTED GRANULAR FILL
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDUIT
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
C.T.	CERAMIC TILE
C.S.I.	CONSTRUCTION SPECIFICATION INSTITUTE
CU. DBL.	CUBIC DOUBLE
DEG.	DEGREES
DIA.	DIAMETER
DIM.	DIMENSION
DISC.	DISCONNECT
DN.	DOWN
DR.	DOOR
DTL.	DETAIL
DWG.	DRAWING
DWLS.	DOWELS
EA.	EACH
ELEC./ELECT.	ELECTRIC/-AL
ELEV./EL.	ELEVATION
ENG.	ENGINEER/ED
EQ.	EQUAL
EQUIP.	EQUIPMENT
ETC.	ETCETERA
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
FIN.	FINISH
FL.	FLOOR
F.O.	FINISHED OPENING
F.R.P.	FIBERGLASS REINFORCED PLASTIC
FT.	FEET/FOOT
FTG.	FOOTING
GA.	GAGE/GUAGE
G.C.	GENERAL CONTRACTOR
GALV.	GALVANIZED
GD.	GRADE
GL.	GLASS
GYP.	GYPSUM
H.C.	HANDICAP ACCESSIBLE
H.D.	HIGH DENSITY
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.O.	HIGH OUTPUT
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
H.R.C.	HEATING & REFRIGERATION CONTRACTOR(S)
HT.	HEIGHT
H.V.A.C.	HEATING, VENTILATION, AIR CONDITIONING
HZ.	HERTZ
I.G.	ISOLATED GROUND
IN.	INCHES
INCL.	INCLUDE/ED
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
J-BOX	JUNCTION BOX
JST.	JOIST
JT.	JOINT
K.S.I.	KIPS PER SQ. IN.
LAM.	LAMINATE
LAV.	LAVATORY
LBF.	POUNDS FORCE
LBS.	POUNDS
L.F.	LINEAL FOOT
L.G.C.	LANDLORD'S GENERAL CONTRACTOR
L.P.	LOW POINT
LL.	LANDLORD
LLV.	LONG LEG VERTICAL
MA.	MILLIAMPERE
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFG./ MANUF.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MM.	MILLIMETER
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MSRY.	MASONRY
MTD.	MOUNTED
MTL.	METAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NO./NUM.	NUMBER
N.T.S.	NOT TO SCALE
O.A.	OVER ALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPT.	OPTIONAL
OPP.	OPPOSITE
P.C.C.	PRE-CAST CONCRETE
PH. BD.	PHONE BOARD
PKG.	PARKING
PL.	PLATE
PLMB.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
P.O.S.	POINT OF SALE
PR.	PAIR
PREP.	PREPARATION/ PREPARED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	PART/POINT
P.V.C.	POLY VINYL CHLORIDE
PVMT.	PAVEMENT
QTY.	QUANTITY
R.A.	RETURN AIR
R./RAD.	RADIUS
R.D.	ROOF DRAIN
RE.	REFERENCE
RECPT.	RECEPTACLE
REINF.	REINFORCING
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
R.R.	RESTROOM
R.T.U.	ROOF TOP UNIT
SAN.	SANITARY
S.C.	SOLID CORE
SCHD.	SCHEDULE
SECT.	SECTION
SERV.	SERVICE
SEV.	SEVER
SF.	STOREFRONT
SHT.	SHEET
SIM.	SIMILAR
S.J.	SAWCUT JOINT
SM.	SMALL
SPECS.	SPECIFICATIONS
SPRINK.	SPRINKLERS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
S.S., S/S	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STN.	STATION
STRUCT.	STRUCTURE/-AL
SUPPL.	SUPPLY/-IED
SUSP.	SUSPENDED
T/	TOP OF
TB.	THROUGHBOLT
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEMP.	TEMPERED
THRU	THROUGH
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
UV.	ULTRAVIOLET
V.	VOLT/VOLTAGE
V.B.	VAPOR BARRIER
V.C.	VOLUME CONTROL
V.I.F.	VERIFY IN FIELD
V.P.	VENT PIPE
VERT.	VERTICAL
W.	WIDE
W/-W/O	WITH/WITHOUT
W.B.	WALL BASE
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.H.	WATER HEATER
WK.	WORK
WP.	WATER PROOF
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

GENERAL NOTES:

1. CONTRACTOR TO REFER TO RESPONSIBILITY MATRIX ON SHEET G-004.
2. DO NOT SCALE DRAWINGS- WRITTEN DIMENSIONS TAKE PRECEDENT.
3. IN CASE OF DISCREPANCIES OR CONFLICTS, NOTIFY ARCHITECT BEFORE PROCEEDING WITH ANY WORK.
4. THESE DOCUMENTS HAVE BEEN PREPARED EXPRESSLY BY US FOR THE CONTRACTOR. ANY ADDITIONAL USE FOR ANY OTHER REASON MUST BE AUTHORIZED IN WRITING BY ARCHITECT.
5. SIGNAGE AND CANOPIES AS SHOWN IN THESE DRAWINGS IS SCHEMATIC ONLY FOR ILLUSTRATION PURPOSES AND DOES NOT IMPLY OR DESCRIBE ANY MEANS, METHODS, OR DETAILS PERTAINING TO INSTALLATION.

A. IT SHALL BE SOLELY THE SIGN CONTRACTOR'S RESPONSIBILITY TO DESIGN, FABRICATE, AND INSTALL THE SIGN UNDER SEPARATE PERMIT. ANY AND ALL STRUCTURAL CONSIDERATIONS SHALL BE COORDINATED BETWEEN THE SIGNAGE CONTRACTOR, OWNER, AND HIS DESIGN PROFESSIONALS. THE SIGN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DESCRIBING THE SIGNAGE DESIGN INCLUDING FINISHES, COLORS, AND DESIGN DIMENSIONS TO THE OWNER FOR DESIGN INTENT REVIEW ONLY PRIOR TO SIGN FABRICATION.

B. IT SHALL BE SOLELY THE CANOPY SUPPLIER'S RESPONSIBILITY TO DESIGN, FABRICATE, AND INSTALL THE CANOPY UNDER SEPARATE CONTRACT. ANY AND ALL STRUCTURAL CONSIDERATIONS SHALL BE COORDINATED BETWEEN THE CANOPY CONTRACTOR, OWNER, AND HIS DESIGN PROFESSIONALS. THE CANOPY CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DESCRIBING THE CANOPY DESIGN INCLUDING FINISHES, COLORS, AND DESIGN DIMENSIONS TO THE OWNER FOR DESIGN INTENT REVIEW ONLY PRIOR TO FABRICATION.

6. DRAWINGS AS LISTED IN THE DRAWING INDEX AND CONTRACT FOR CONSTRUCTION CONSTITUTES THE INSTRUMENTS OF SERVICE AND IS CONSIDERED A SINGLE ENTITY. THE CONTRACTOR IS THEREFOR BOUND BY ALL NFORMATION INCLUDED.
7. ONLY DRAWINGS MARKED "ISSUED FOR CONSTRUCTION" BY ARCHITECT/ENGINEER SHALL BE USED AS A BASIS FOR CONSTRUCTION.
8. SPRINKLER REQUIREMENTS, WHEN REQUIRED; REFER TO FIRE NOTES LOCATED ON G-003 LIFE SAFETY PLAN.
9. PRIOR TO PROCEEDING WITH ANY WORK, CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD AND NOTIFY THE ARCHITECT IN CASE OF DISCREPANCIES.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE WITH OTHER SUBCONTRACTORS/TRADES. FAILURE TO DO SO WILL NOT CONSTITUTE GROUNDS FOR CHANGE ORDER.
11. ALL WORK SHALL BE SUBJECT TO FINAL REVIEW BY THE ARCHITECT AND ACCEPTANCE BY THE OWNER.
12. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR ALL SUBCONTRACTORS TO OBTAIN PROPER INSURANCE CERTIFICATES PRIOR TO COMMENCEMENT OF WORK. DELAYS AND PENALTIES DUE TO SUCH FAILURE SHALL BE INCURRED BY CONTRACTOR. THERE CAN BE NO PENALTY ON THE OWNER.
13. THE SIZE AND LOCATION OF ALL EQUIPMENT PADS & PENETRATIONS THROUGH THE STRUCTURE SHALL BE VERIFIED BY THE MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. ALL PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
14. ANY ITEM OF WORK NECESSARY FOR COMPLETION OF CONSTRUCTION, WHICH IS NOT SPECIFICALLY COVERED ON THE DRAWINGS OR IN THE SPECIFICATIONS, SHALL BE CONSIDERED INCLUDED IN THIS WORK AND SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.
15. WHERE DUCTS, PILES, OR CABLES PENETRATE FIRE-RATED PARTITIONS, PROVIDE FIRESTOP MATERIAL.

MOLD AND MILDEW

1. IF CONTRACTOR DISCOVERS MOLD OR MILDEW AT ANY TIME DURING THE WORK, CONTRACTOR TO IMMEDIATELY INFORM THE OWNER AND ARCHITECT IN WRITING.
2. CONTRACTOR SHALL RETAIN A CERTIFIED MOLD AND MILDEW TESTING AGENCY TO PERFORM INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF TESTS CONFIRMS HAZARDOUS CONDITION, THE CONTRACTOR SHALL OBTAIN A MINIMUM OF 2 BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM REMEDIATION WORK. REIMBURSEMENT OF REMEDIATION WORK TO BE DETERMINED BY THE OWNER AND ARCHITECT BEFORE CONTRACTOR BEGINS REMEDIATION WORK.
3. CONTRACTOR TO PROVIDE A MOISTURE PROTECTION PLAN TO AVOID TRAPPING WATER IN FINISHED WORK. CONTRACTOR TO DOCUMENT VISIBLE SIGNS OF MOLD THAT MAY APPEAR DURING WORK.
4. EXPOSED CONSTRUCTION: BEFORE INSTALLATION OF WEATHER BARRIERS, WHEN MATERIALS ARE SUBJECT TO WETTING AND EXPOSURE TO AIRBORNE MOLD SPORES, PROTECT MATERIALS FROM WATER DAMAGE AND KEEP ORGANIC MATERIALS FROM COMING INTO PROLONGED CONTACT WITH CONCRETE. REMOVE ALL STANDING WATER AND KEEP DECKS FROM PONDING, ALL DECK OPENINGS ARE TO BE COVERED.
5. PARTIALLY ENCLOSED CONSTRUCTION: AFTER INSTALLATION OF WEATHER BARRIERS BUT BEFORE FULL ENCLOSURE AND CONDITIONING OF BUILDING, WHEN INSTALLED MATERIALS ARE STILL SUBJECT TO INFILTRATION OF MOISTURE AND AMBIENT MOLD SPORES, DO NOT LOAD POROUS MATERIALS OR COMPONENTS INTO THE BUILDING, KEEP INTERIOR SPACES REASONABLY CLEAN AND PROTECTED FROM WEATHER, REMOVE CELLULOSE AND ORGANIC MATTER PERIODICALLY, DISCARD ALL WATER-DAMAGED MATERIAL, DISCARD ANY MATERIAL WITH MOLD GROWTH. SEQUENCE WORK THAT ALLOWS ANY WET MATERIALS TO DRY BEFORE ENCLOSING.
6. CONTROLLED CONSTRUCTION PHASE: AFTER COMPLETING AND SEALING OF WORK BUT PRIOR TO FULL OPERATION OF PERMANENT H.V.A.C. SYSTEMS, CONTROL MOISTURE AND HUMIDITY INSIDE TO AN EFFECTIVE DRY-IN CONDITION. USE PERMANENT H.V.A.C. SYSTEM TO CONTROL HUMIDITY. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, RELATIVE HUMIDITY, AND EXPOSURE TO WATER LIMITS. REMOVE MATERIALS THAT CANNOT BE COMPLETELY RESTORED TO MANUFACTURED MOISTURE LEVEL WITHIN 48 HOURS.

CONSTRUCTION NOTES:

1. DIMENSIONS ARE FROM THE FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
2. ALL WALLS TO BE WOOD FRAMING UNLESS INDICATED OTHERWISE SEE A-201 FLOOR PLAN FOR LOCATIONS, RE: STRUCTURAL FOR DRAWINGS AND SPECIFICATIONS
3. PROVIDE 5-1/2" HIGH CONCRETE MILLWORK CURBS BY THE GENERAL CONTRACTOR (RE: CLAYTON FIXTURE SHOP DRAWINGS FOR EXACT LOCATIONS & DIMENSIONS).
4. ALL BLOCKING IS CONTRACTOR'S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO, THE AREAS INDICATED ON: THE INTERIOR ELEVATIONS FOR SHELVING, BRACKETS, GROUNDS, FIXTURES, ETC., THE BUILDING SECTIONS AND DETAILS FOR BLOCKING AT WINDOWS, CANOPIES, ROOF FRAMING, RTUS, ETC.
5. ALL FASTENERS, ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH PRESERVATIVE AND/OR FIRE TREATED WOOD SHALL BE OF G-185 HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, OR AN APPROVED EQUAL.
6. NON-COMBUSTIBLE CONSTRUCTION SHALL CONSIST OF 4", 6", 8" OR 10" METAL AND WOOD STUDS (COORDINATE GAUGE WITH STRUCTURAL) WITH 1/2" CEMENT BOARD ON EACH SIDE FOR FIRE RATING. NON-COMBUSTIBLE BLOCKING AND CONSTRUCTION SHALL BE USED WITHIN 18", BEHIND & UNDER ALL HOODS.
7. PROVIDE 6" KRAFT FACED FIBERGLASS BATT INSULATION OF R-VALUES NOTED IN THE INSULATION SCHEDULE ON A-201 WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 AT ALL EXTERIOR WALLS, INSULATION SHALL BE INSTALLED ON WARM SIDE OF WALL. AT HOOD LOCATIONS ONLY, FOIL FACED SHALL BE USED IN LIEU OF KRAFT FACED. INSULATION SHALL BE INSTALLED ON WARM SIDE OF WALL, TYPICAL.
8. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, ETC.
9. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
10. PROVIDE 3-1/2" SOUND ATTENUATIONS WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 IN RESTROOM PERIMETER, RESTROOM VESTIBULE WALLS AND WALLS SEPARATING THE KITCHEN FROM THE DINNING ROOM, UNLESS NOTED OTHERWISE.
11. CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL
12. SECURE SAFE USING (4) HILTI-HAS-E 1/2 " X 4-1/2" ANCHOR BOLTS WITH HILTI HVU ADHESIVE CAPSULE AT EACH HOLE FASTEN THRU PHENOLIC BASE OF CABINET AND INTO CONCRETE CURB BELOW. VERIFY LOCATION WITH SAFE MANUFACTURER. G.C. TO COORDINATE WITH EQUIPMENT INSTALLER.
13. WALLS BEHIND WALK-IN (COOLER/FREEZER) UNITS SHALL BE FINISHED. PROVIDE CEMENT BOARD FOR FIRST 12" ABOVE SLAB THEN PROVIDE GYPSUM BOARD (LEVEL1 FINISH) TO 6" ABOVE FINISHED CEILING.

DRAWING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X / A-X.X	SECTION TAG - SEE DWG. AS NOTED	X / A-X.X	DETAIL TAG - SEE DWG. AS NOTED	X	COLUMN LINE
X	DOOR TAG - SEE DOOR SCHD.	X-X	INTERIOR/ EXTERIOR FINISH TAG	X-X	INTERIOR/ EXTERIOR FINISH TAG
	ELEVATION BENCHMARK		REVISION TAG	A / A-X.X	ELEVATION TAG - SEE DWG. AS NOTED

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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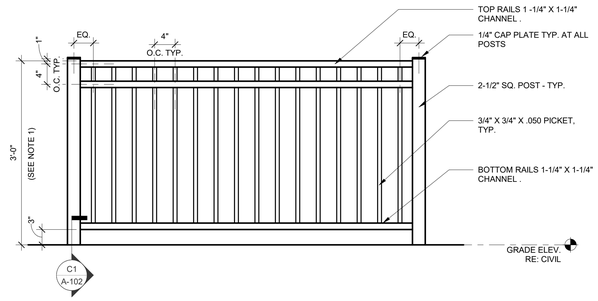
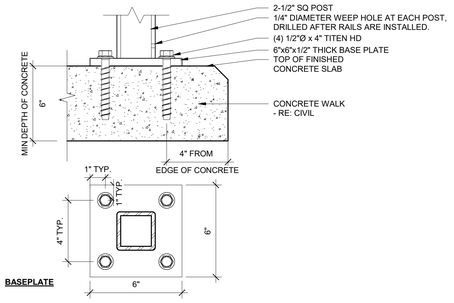
SHEET
GENERAL NOTES AND ABBREVIATIONS

SHEET NUMBER
A-001



NOTES:
1. ALL ALUMINUM TO BE .062" TOP WALL, .078 SIDE WALL UNLESS NOTED OTHERWISE
2. USE ONLY COMMERCIAL GRADE ALUMINUM FENCING WITH DARK BRONZE POWDER COAT FINISH.

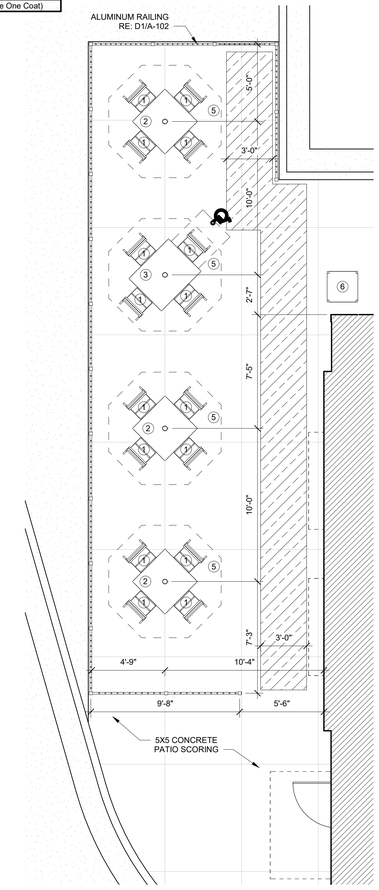
D1 TYP ALUMINUM RAIL
1" = 1'-0"



C1 TYP EXTERIOR RAILING FIELD BOLT-DOWN DETAIL
3" = 1'-0"

PATIO SEATING SCHEDULE

Mark	Type	Count	Manufacturer	Model	Width	Depth	Height	Material	Finish
1	Patio Chair	16	Benchmark Design Group	WENDOVER CHAIR					
2	Patio Table - 4 Top	3	Benchmark Design Group	TAB3055-3636-AAL-WJ-UH-BDT	3'-0"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
3	Patio Table - 4 Top - ADA	1	Benchmark Design Group	TBL3056-3644-AL-UH	3'-8"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
5	Patio Umbrella	4	Tuuci	OCEAN MASTER PARASOL					
6	Trash Receptacle	1	Benchmark Design Group	CFA-AL-2444	2'-0"	2'-0"	3'-11"	Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)



A1 FLOOR PLAN - PATIO
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL:847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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PRINTED FOR	ISSUE FOR PERMIT
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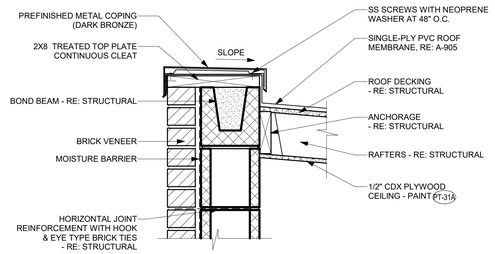
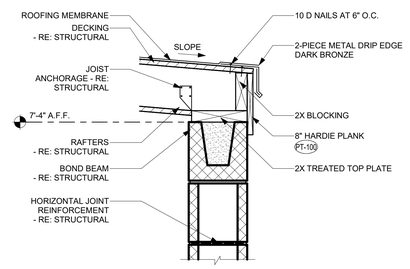
DRAWN BY	MH
CHECKED BY	JF

SHEET: PATIO PLAN & DETAILS

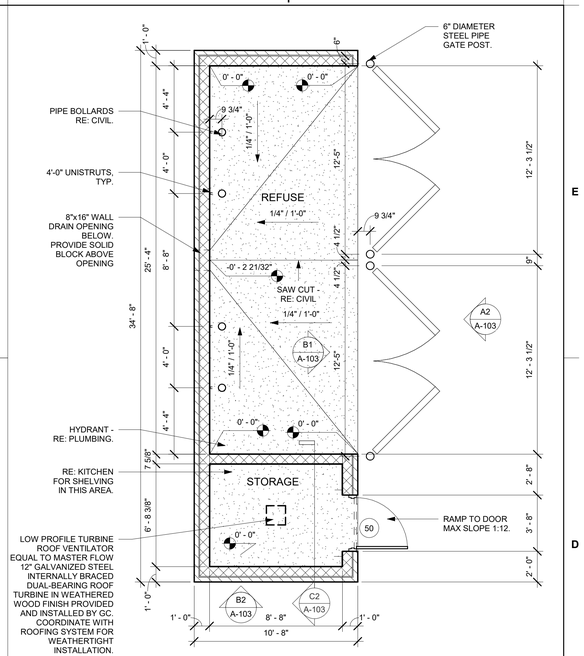
SHEET NUMBER: **A-102**



E3 REFUSE ENCLOSURE ROOF EDGE DETAIL
1 1/2" = 1'-0"



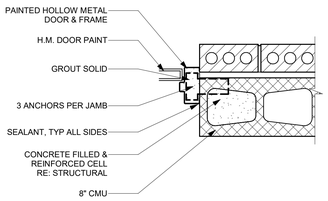
E2 REFUSE ENCLOSURE DRIP EDGE
1 1/2" = 1'-0"



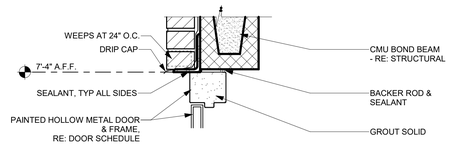
D1 REFUSE ENCLOSURE PLAN
1/4" = 1'-0"

REFUSE ENCLOSURE NOTES

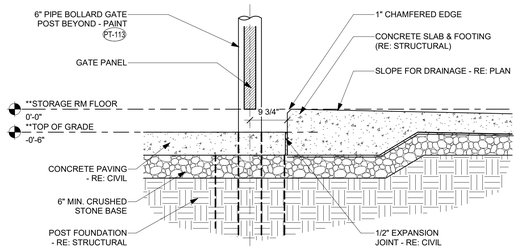
1. ** IN THE ARCHITECTURAL DRAWINGS, REFUSE ENCLOSURE AND MAIN BUILDING ARE BOTH NOTED WITH FINISH SLAB AT 0'-0". ACTUAL FINISH SLAB HEIGHTS WILL VARY BETWEEN MAIN BUILDING AND REFUSE ENCLOSURE. REFER TO CIVIL FOR ALL FINISH SLAB HEIGHTS.



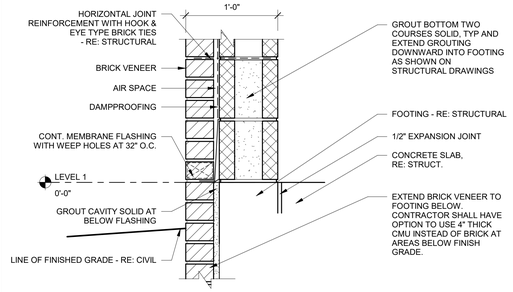
D2 REFUSE ENCLOSURE DOOR JAMB DETAIL
1 1/2" = 1'-0"



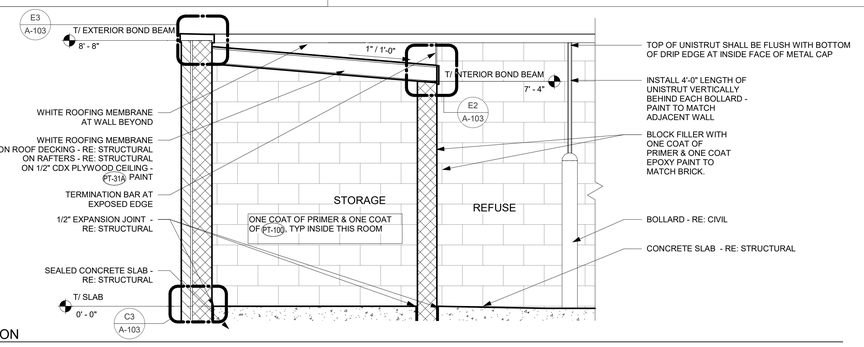
D3 REFUSE ENCLOSURE DOOR HEAD DETAIL
1 1/2" = 1'-0"



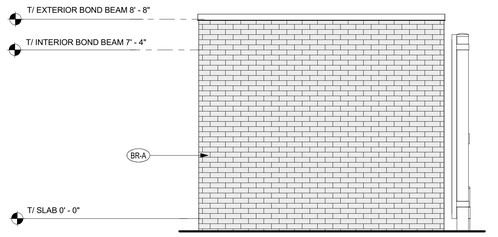
C4 REFUSE PAD AT CONCRETE PAVING DETAIL
3/4" = 1'-0"



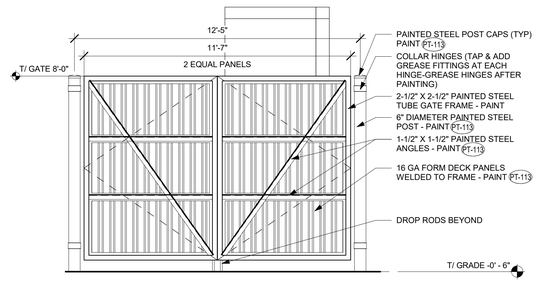
C3 REFUSE ENCLOSURE BASE DETAIL
1 1/2" = 1'-0"



C2 REFUSE ENCLOSURE SECTION
1/2" = 1'-0"



B2 REFUSE ENCLOSURE ELEVATION
3/8" = 1'-0"



B1 REFUSE ENCLOSURE GATE REAR ELEVATION
3/8" = 1'-0"

A3 REFUSE ENCOSURE DROP ROD 3-D DECK PANEL DETAIL
N.T.S.

A2 REFUSE ENCLOSURE ELEVATION
N.T.S.

Chick-fil-A
5200 Buffington Road
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30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
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CHICK-FIL-A
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SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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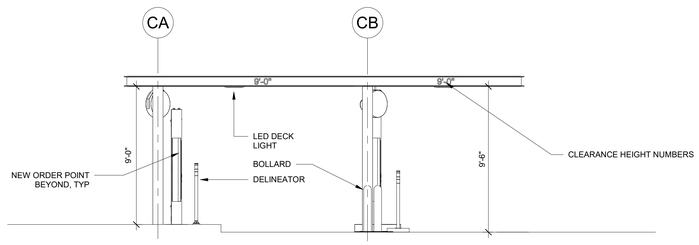
SHEET
REFUSE ENCLOSURE

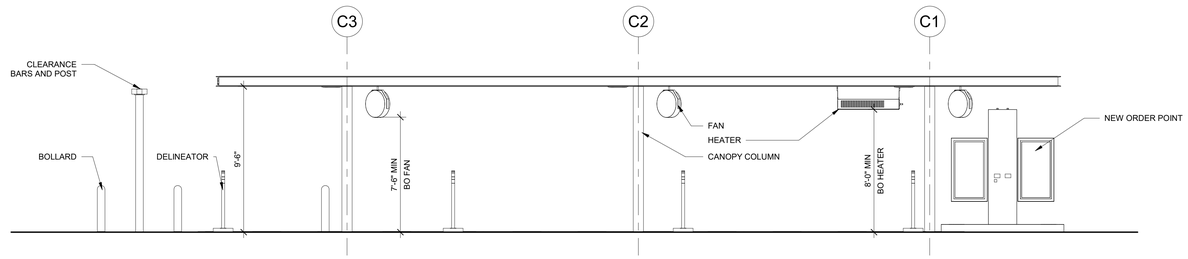
SHEET NUMBER
A-103

ORDER POINT EQUIPMENT SCHEDULE									
TAG	EQUIPMENT	APPLICABLE TIER 1	APPLICABLE TIER 2	APPLICABLE TIER 3	SUPPLIER	CONTACT	MANUFACTURER	MODEL NUMBER	COMMENTS
X0.3	BOLLARD SLEEVE	-	X	X	GC	-	INTERSTATE PRODUCTS OR EQUAL	1736YRS - EAGLE 6"	-
X0.4	OP DIGITAL MENU BOARD	-	X	X	PATTISON	Helene Hammond (613-247-5379) hhammond@pattisonsign.com	PATTISON	-	
X0.6	C7 DOUBLE CLEARANCE BAR	-	BY SITE	BY SITE	UNISTRUCTURES OR CHANDLER SIGNS	Carolyn Ward (678-974-1759) c.ward@unistructures.com OR Kristen Hamilton, Amy McCann, or Scarlett Quintero (210-349-3804) CFA@chandlersigns.com	UNISTRUCTURES OR CHANDLER SIGNS	-	14'-6 1/2" L x 9'-0" H; See shop drawings for more information; Dark Bronze textured finish
X0.19	CLEARANCE TEXT	-	X	X	LANE OR FASHION	Larry Tolbert (705-545-7615) ltolbert@lanesupplyinc.com OR Jason Holmes (785-242-8111) jholmes@fashioninc.com	LANE OR FASHION	-	-
X-BR3-A	BR-3								

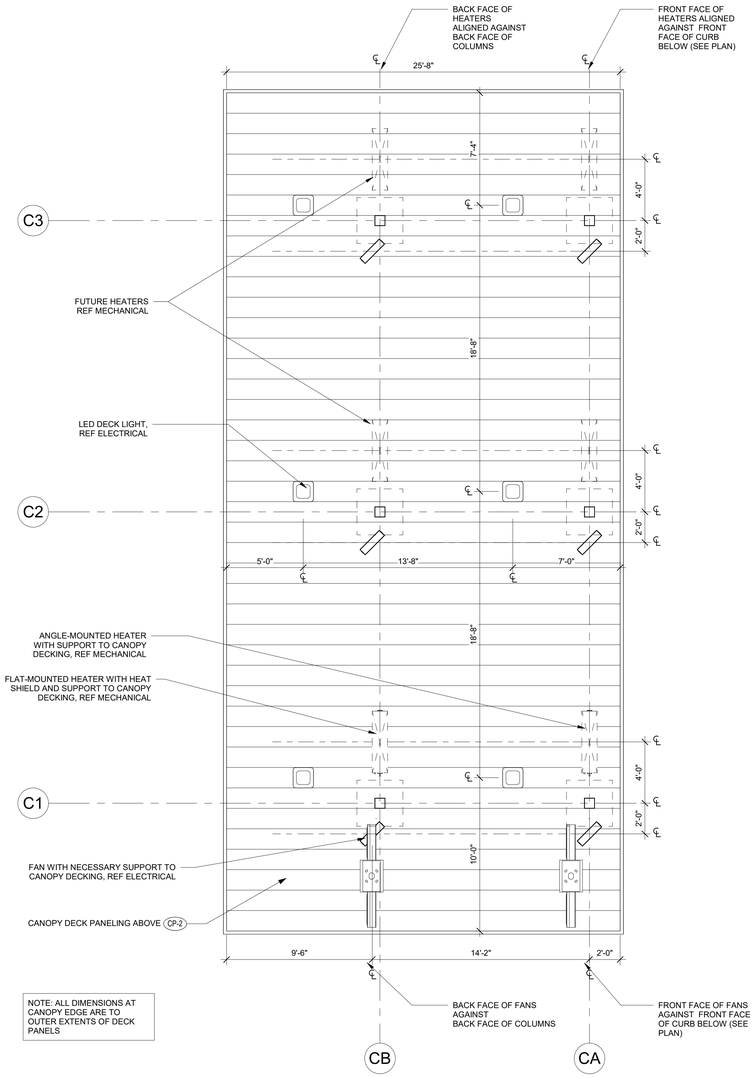
NOTE:
THIS SHEET IS FOR DESIGN INTENT ONLY. REFER TO CANOPY SHOP DRAWINGS FOR ENGINEERING DETAILS AND CALCULATIONS. SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW BY GENERAL CONTRACTOR



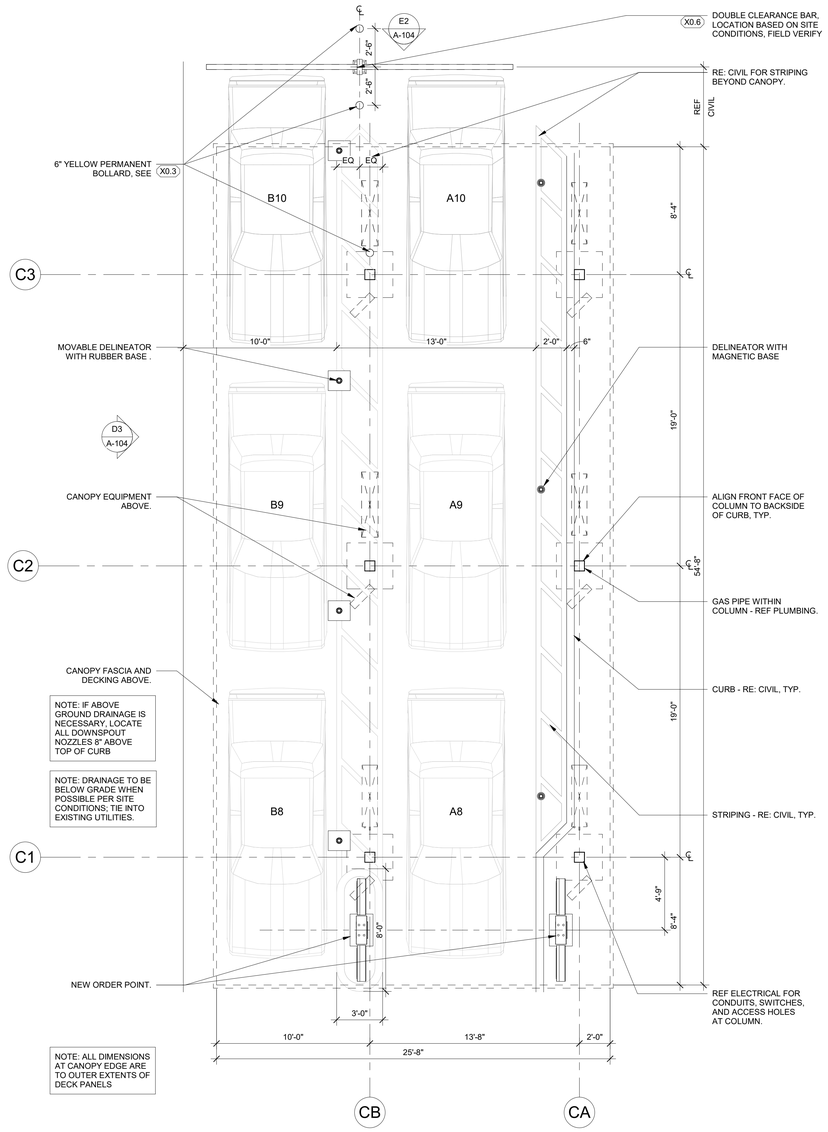
E2 ENTRY ELEVATION
1/4" = 1'-0"



D3 SIDE ELEVATION
1/4" = 1'-0"



NORTH A3 ORDER POINT CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



NORTH A2 ORDER POINT CANOPY PLAN
1/4" = 1'-0"

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Oldham Village FSU

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SHEET: ORDER POINT CANOPY

SHEET NUMBER: **A-104**

NOTE:
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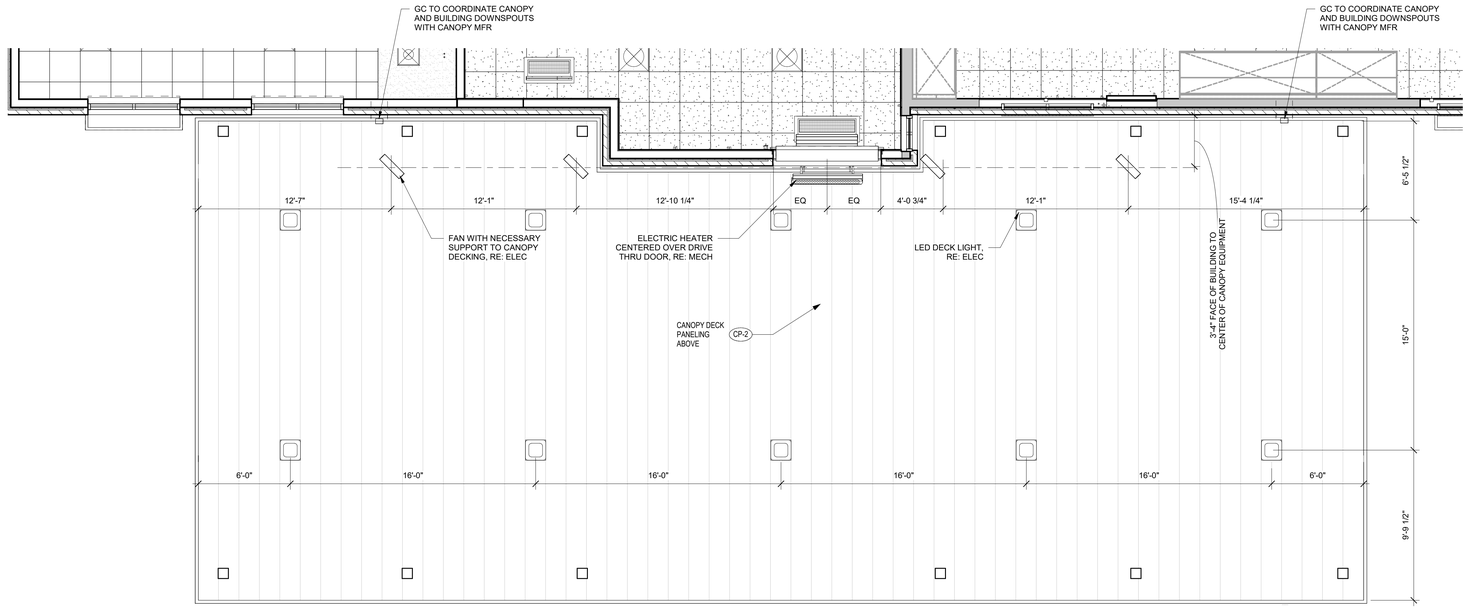
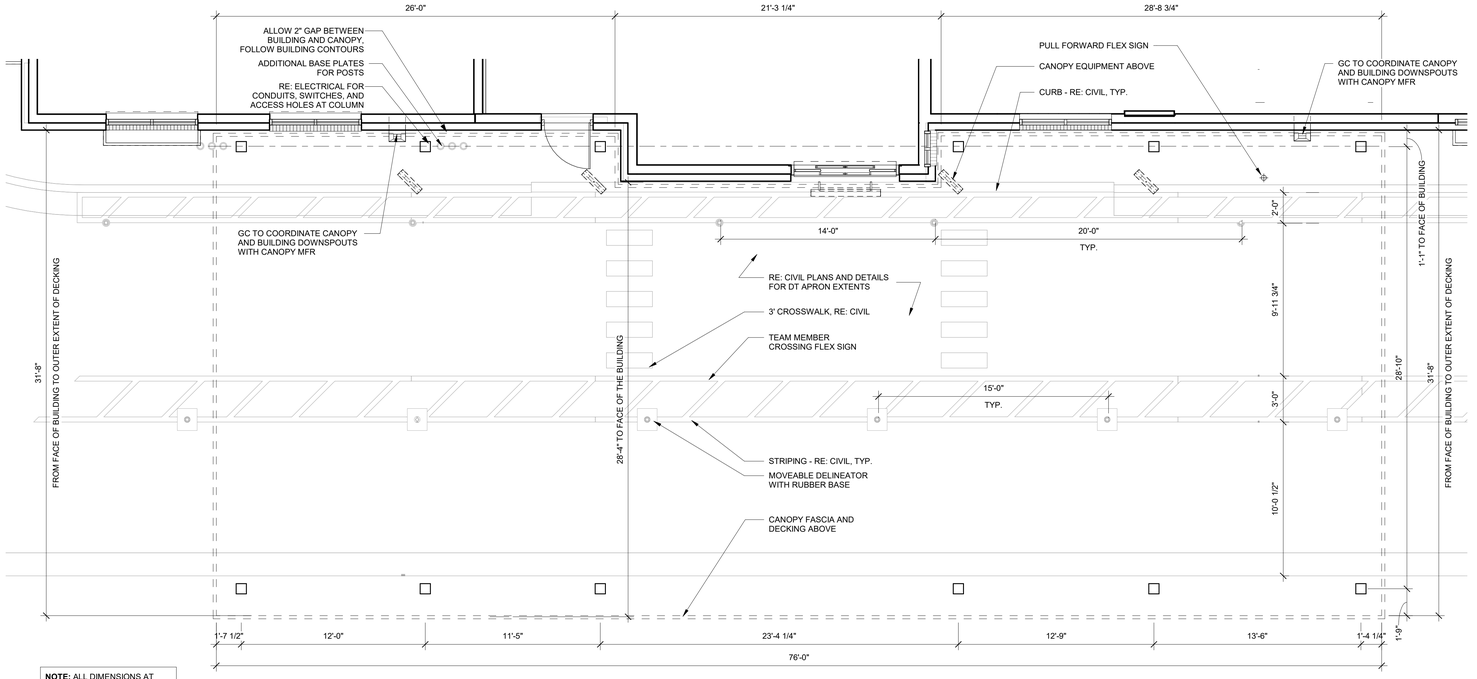


C3 OUTSIDE MEAL DELIVERY CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"

NOTE: ALL DIMENSIONS AT CANOPY EDGE ARE TO OUTER EXTENTS OF DECK PANELS



NOTE: ALL DIMENSIONS AT CANOPY EDGE ARE TO OUTER EXTENTS OF DECK PANELS

A3 OUTSIDE MEAL DELIVERY CANOPY PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
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30349-2998

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DES PLAINES, IL 60018
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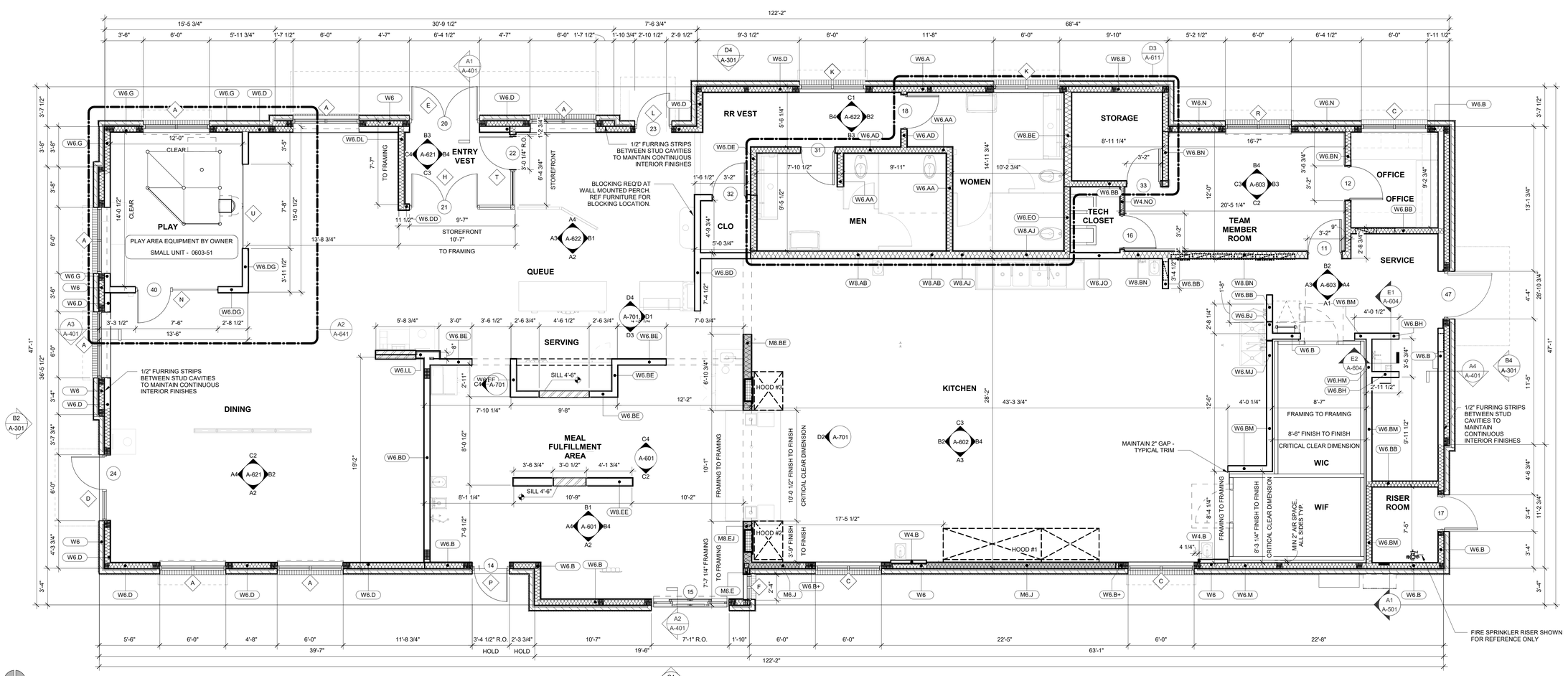
SHEET
OUTSIDE MEAL DELIVERY CANOPY

SHEET NUMBER
A-105



C4 FLOOR PLAN
1/4" = 1'-0"

REFER TO LEGEND BELOW FOR WALL CAVITY FRAMING AND INSULATION

REFER TO WALL TYPES ON THE RIGHT FOR SHEATHING AND MATERIALS ON EXPOSED SIDE(S) OF WALL (REFER TO ROOM LABELS FOR ORIENTATION)

W6.AB+

PLUS SIGN INDICATES ADDITIONAL LAYER OF SHEATHING

WOOD STUD WALL	
W4	2x4 WOOD STUDS
W6	2x6 WOOD STUDS
W8	2x8 WOOD STUDS
METAL STUD WALL	
M4	3 5/8" METAL STUDS
M6	6" METAL STUDS
M8	8" METAL STUDS
BATT INSULATION	

NOTE 1: WALL BLOCKING SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO: AREAS INDICATED ON INTERIOR ELEVATIONS FOR GRAB BARS, SHELVING BRACKETS, MONITORS, FIXTURES, ETC, AS WELL AS BLOCKING FOR WINDOWS, CANOPIES ROOF FRAMING, ROOF TOP UNITS, ETC.

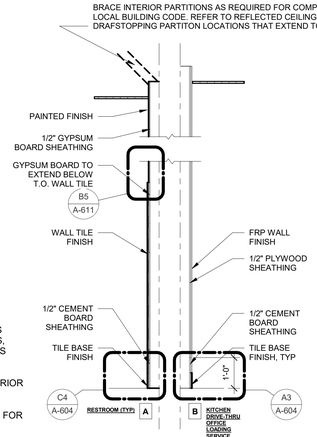
NOTE 2: REFER TO STRUCTURAL DRAWINGS AND WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

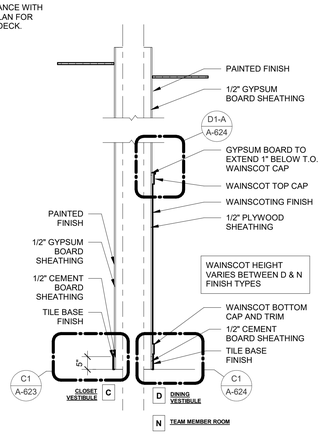
NOTE 3: REFER TO FINISH PLAN FOR WALL FINISH INFO AND SPECIFICATIONS FOR WALL SHEATHING INFO. DIMENSIONS SHOWN ARE FROM FLOOR FINISH, TYP.

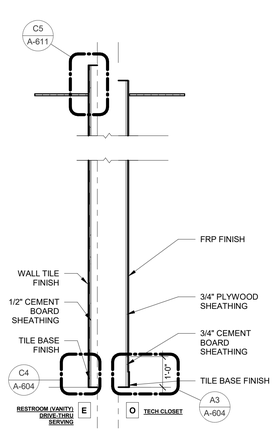
NOTE 4: GENERAL CONTRACTOR TO PROVIDE AND/OR VERIFY FIRE BLOCKING AT 10' MAX VERTICAL SPACING AND AT CEILING HEIGHT IN ALL COMBUSTIBLE STUD WALLS, ACCORDING TO LOCAL CODE REQUIREMENTS.

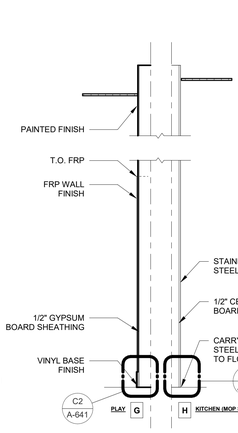
WALL TYPES LEGEND
N.T.S.

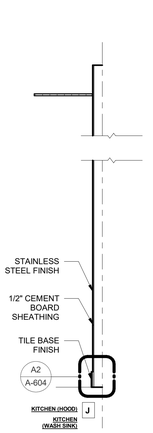
BRACE INTERIOR PARTITIONS AS REQUIRED FOR COMPLIANCE WITH LOCAL BUILDING CODE. REFER TO REFLECTED CEILING PLAN FOR DRAFTSTOPPING PARTITON LOCATIONS THAT EXTEND TO DECK.

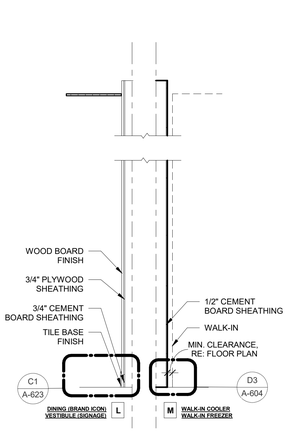












INSULATION SCHEDULE - 2018 INTERNATIONAL ENERGY CONSERVATION CODE (ZONE 4A)		
LOCATION	R-VALUE	EST. THICKNESS
ROOF	R-30ci	6" RIGID
METAL FRAMED	R-20 + R-7.5ci (R-13 +R-7.5ci MIN. REQ'D)	5-1/2" BATT + 1-1/2" RIGID
WOOD FRAMED	R-20	5-1/2" BATT
SLAB	R-10 24" BELOW	2" RIGID

NOTES:
1. REFER TO FLOOR PLAN AND WALL SECTION SHEETS FOR INSULATION EXTENTS AND LOCATIONS.
2. REFER TO SPECIFICATIONS FOR INSULATION PRODUCT INFORMATION.

FLOOR PLAN GENERAL NOTES

A.1 ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
A.2 FASTENERS, ANCHORS, CLIPS, STRAPS, ETC WHICH ARE IN CONTACT WITH PRESERVATIVE AND/OR FIRE TREATED WOOD SHALL BE OF G-185 HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, OR AN APPROVED EQUAL.
A.3 REFER TO CIVIL AND LANDSCAPE FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, AND OTHER SITE ITEMS.
A.4 REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
A.5 CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL.
A.6 REFER TO ACCESSIBILITY PLAN AND FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.
A.7 REFER TO ACCESSIBILITY PLAN AND OWNER DRAWINGS FOR CONDIMENT COUNTERS AND TRASH RECEPTACLES.
A.8 REFER TO IT WALLBOARD USER GUIDE FOR WALLBOARD INSTALLATION, IF APPLICABLE.
A.9 REFER TO MILLWORK PLAN FOR RAISED CONCRETE CURB LOCATIONS.
A.10 FREEZER AND COOLER DOORS AND HARDWARE SUPPLIED BY FREEZER/COOLER MANUFACTURER.
A.11 REFER TO SHEET A-801 FOR ROUGH OPENING ON WINDOWS AND DOORS
A.12 NON-COMBUSTIBLE STUD-WALL CONSTRUCTION SHALL CONSIST OF METAL STUDS WITH CEMENT BOARD ON EACH SIDE. USE NON-COMBUSTIBLE BLOCKING AND CONSTRUCTION WITHIN 18", BEHIND AND UNDER ALL KITCHEN EXHAUST HOODS.

FLOOR PLAN LEGEND:

CT CABINET
RE: ELECTRICAL

MDP RE: ELECTRICAL

STEEL WALL BY OWNER RE: FURNITURE PLANS FOR DIMENSIONS AND DETAILS

ITEM BY OWNER

SOFFIT OR BULKHEAD ABOVE RE: REFLECTED CEILING PLAN

2-SIDED BRAND ICON
RE: OWNER DRAWINGS

RECESSED PIN AND SLEEVE BOX. RE: A2/A-604 & MEP DRAWINGS.

ELECTRICAL PANEL RE: ELECTRICAL

Chick-fil-A
5200 Buffington Road
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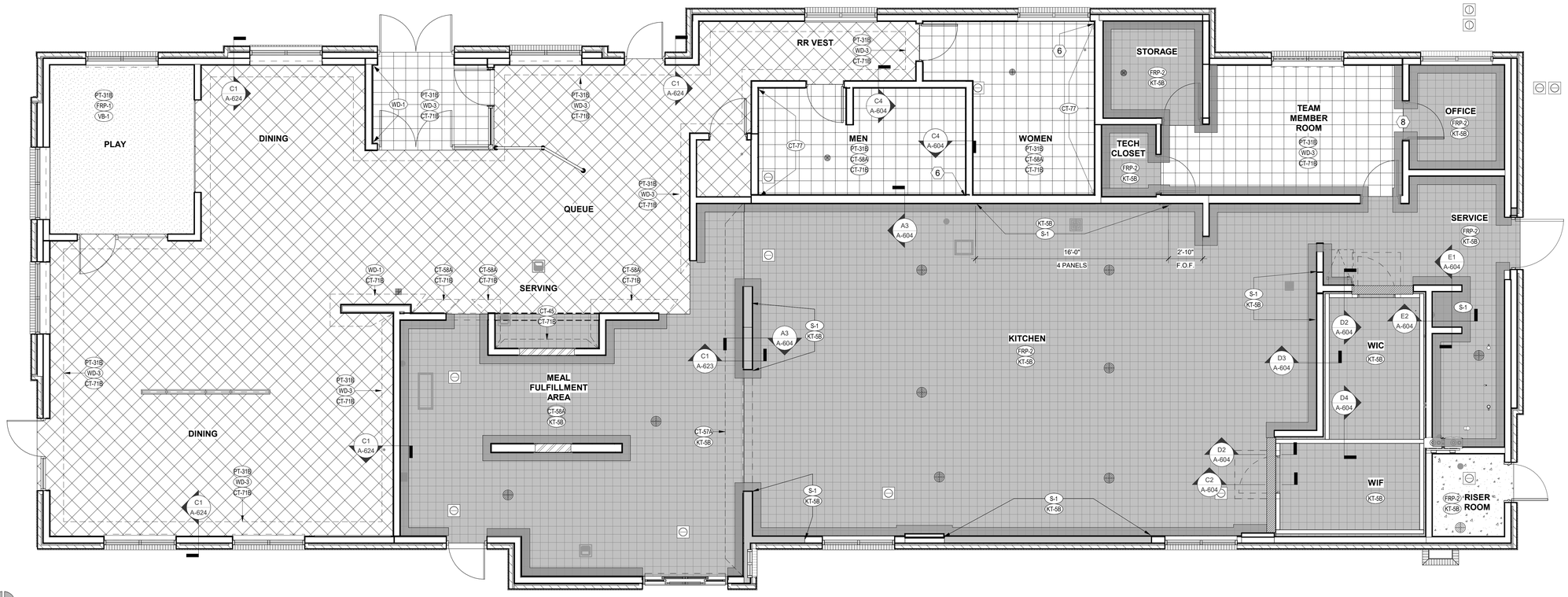
SHEET
FLOOR PLAN

SHEET NUMBER
A-201



NORTH **C4** FINISH PLAN
1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

A.1 RE: PLUMBING FOR FLOOR DRAIN/SINK LOCATIONS. RE: STRUCTURAL FOR DRAIN SLOPE INFORMATION.
A.2 PULL FLOOR AND WALL TILE FROM MULTIPLE BOXES TO ENSURE TILE COLOR VARIATION IN PUBLIC AREAS.
A.3 PROVIDE FRACTURE MEMBRANE/ SLIP SHEET AT ALL CONTROL AND EXPANSION JOINTS TO ALLOW TILE TO MOVEMENT.
A.4 ALL DINING AREA DRYWALL TO RECEIVE LEVEL 4 FINISH.
A.5 WRAP ALL EXPOSED PORTIONS OF CONCRETE CURBS WITH TILE BASE TO MATCH TILE BASE SCHEDULED IN RESPECTIVE ROOM/ AREA.
A.6 PROVIDE CG-3 AROUND PERIMETER OF ALL KITCHEN WINDOWS.
A.7 ALL EXTERIOR DOORS TO RECEIVE THRESHOLD SET IN BED OF MASTIC.
A.8 TILE INSTALLERS TO USE MANUFACTURER-PROVIDED OUT-CORNER BASE TILE AT ALL OUTSIDE CORNERS.

FINISH CLASSIFICATION REQUIREMENTS:

MINIMUM INTERIOR WALL AND CEILING FINISH
CLASSIFICATION REQUIREMENTS FOR ROOMS AND
ENCLOSED SPACES
(2018 IBC, TABLE 803.11)
CLASS: C
FLAME SPREAD INDEX: 76-200
SMOKE-DEVELOPED INDEX: 0-450

INTERIOR FLOOR FINISHES

INTERIOR FLOOR FINISHED SHALL COMPLY WITH THE REQUIREMENTS OF CODE SECTION 804 - INTERIOR FLOOR FINISH AND ANSI-A-326.3-2021 FOR HARD SURFACE FLOORS.

FINISH PLAN KEYNOTES

6	START WITH FULL LENGTH TILE AT CORNER.
8	RE: OFFICE DOOR THRESHOLD DETAIL B2 / A-604.
9	START WITH FULL LENGTH TILE ALIGNED AGAINST WALK-IN FREEZER THRESHOLD.

FINISH PLAN LEGEND:

PORCELAIN TILE (CT-71)
KITCHEN TILE (KT-5)
FLOORING BY PLAYGROUND INSTALLER (FL-4)
EXPOSED CONCRETE
CONCRETE MILLWORK CURB
WATERPROOFING MEMBRANE TO EXTEND 12" UP WALL AND 12" FROM WALL ALONG FLOOR.
KERDI FLASHING BY SCHLUTER BENEATH FINISH FLOOR. RE: KEYED DETAIL.
FLOOR DRAINS / FLOOR SINKS RE: PLUMBING
CLEAN OUT RE: PLUMBING
TRENCH DRAINS RE: PLUMBING
STEEL WALLS BY OWNER
CORE DRILL LOCATION RE: FURNITURE PLANS

FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
02_FLOOR FINISHES							
CT-71	PORCELAIN TILE	CREATIVE MATERIALS CORPORATION	LAVA		LIGHT GREY	12" X 12"	JOINT WIDTH: 3/16"
FL-4	PLAYGROUND FLOORING	PROJECT INNOVATIONS INC	ULTIMATE PLAYPAD SAFETY SURFACING		STARRY NIGHT	2" THICK	
G-12	FLOOR TILE GROUT	MAPEI	ULTRA COLOR GROUT		47 / CHARCOAL		USED WITH PORCELAIN TILE
G-16	FLOOR TILE GROUT	MAPEI	KERAPOXY IEG CQ		47 / CHARCOAL		USED WITH QUARRY TILE, GC TO INSTALL WITH STANDARD THINSET MORTAR
KT-5	QUARRY TILE	CREATIVE MATERIALS CORPORATION			GRAY 507	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR
04_WALL BASE FINISHES							
CT-71B	PORCELAIN TILE COVE BASE	CREATIVE MATERIALS CORPORATION	LAVA		LIGHT GREY	6-1/2" X 12" COVE	JOINT WIDTH: 3/16"
KT-5B	QUARRY TILE COVE BASE	CREATIVE MATERIALS CORPORATION			GRAY 507	6 " x 8" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR
VB-1	VINYL WALL BASE @ PLAYGROUND	JOHNSONITE	TRADITIONAL COVE BASE		CB-40, BLACK	6" H	
04_WALL FINISHES							
CG-1	OUTSIDE CORNER GUARD AT PLAYGROUND (FULL HEIGHT, TYPICAL)	KOROGARD	EXTRUDED CORNER GUARDS	G-815	OYSTER	.078 THICK x 1 1/2" x 1 1/2" x 96" H	
CG-2	INSIDE CORNER GUARD AT PLAYGROUND	KOROGUARD	THERMOFORMED CORNER GUARDS WITH SQUARE EDGE PROFILE	F-410	OYSTER	.40" THICK X 1" X 1" X 96"H	
CG-3	CORNER GUARD (KITCHEN ONLY)	MANUFACTURER	STAINLESS STEEL CORNER GUARD AND/OR ENDCAP		STAINLESS STEEL		EXTEND FROM TOP OF FLOOR TO 8'-0" ABOVE ADJACENT BASE AT WALL CORNERS. AT CASED OPENINGS, CORNER GUARD TO STOP AT HEAD OF OPENING. REFER TO KITCHEN STANDARD ELEVATIONS
CG-4	CORNER GUARD (KITCHEN ONLY)	MARLITE	MARLITE		WHITE		CORNER GUARD AT ALL OUTSIDE FRP CORNERS, U.N.O.
CG-5	CORNER GUARD (KITCHEN AND RESTROOM ONLY)	SCHLUTER	JOLLY "A60AT"		SATIN NICKEL ANODIZED ALUMINUM	1/4"	
CT-45	STAINLESS STEEL WALL TILE	CREATIVE MATERIALS CORPORATION			VOGUE STAINLESS STEEL	1" X 2" BRICK, 12 X 12 SHEET	GROUT: G-11
CT-57A	SUBWAY WALL TILE	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-57D	SUBWAY WALL TILE - BULLNOSE OUTERCORNER	DALTILE			BISCUIT	4-1/4" X 4-1/4"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-57E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-57F	SUBWAY WALL TILE - BULLNOSE (8" SIDE)	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-77	CREAM GLAZED CERAMIC	DALTILE	CREAM RECTANGLE RIPPLE	RV06	CREAM	2X8	GROUT: G-11, REFER TO ELEVATIONS & DETAILS, JOINT WIDTH: 1/16"
FRP-1	FRP WALL PANELS @ PLAYGROUND	KOROGUARD	FRP RIGID VINYL SHEET	W202	OYSTER	.040" THICK X 4 X 8 PANELS	8'-0" A.F.F MAX HEIGHT
FRP-2	FRP WALL PANELS @ KITCHEN	MARLITE	STANDARD FRP	P-199	BRIGHT WHITE	.090" THICK X 4 X 10 PANELS	PROVIDE MARLITE CORNER GUARDS AT ALL OUTSIDE CORNERS IN KITCHEN AREAS, U.N.O.
G-11	WALL TILE GROUT	MAPEI	KERACOLOR U WITH GROUT MAXIMIZER LATEX ADDITIVE	UNSANDED	09/GRAY		
PT-9B	INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-31B	PRIMARY INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: EGGSHELL
PT-35	INTERIOR DOOR FRAME PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7020	BLACK FOX		FINISH: SEMI-GLOSS
PT-36B	ACCENT INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: EGGSHELL
WD-1	PREFINISHED WHITE OAK WOOD BOARDS	SKYLAR MORGAN	5" W NATURAL WHITE OAK BOARDS, CUSTOM CHARACTER GRADE				FINISH: OILED OR WATERLOX WITH BLACK EPOXY FILLED KNOTHOLES
WD-3	WAINSCOTING	RE: NATIONAL ACCOUNT SCHED	1/4" PLYWOOD (RED OAK, PLAIN CUT CORE W/ METAL TRIM)		RED OAK STAINED CFA HERITAGE BROWN		RE: DETAILS AND SHOP DRAWINGS FROM MANUFACTURER
05_MISCELLANEOUS FINISHES							
MT-1	POWDER COAT METAL FINISH	ALPHA COATING TECHNOLOGIES INC	POWDERCOAT	T1-7060	TRISMOKE		
PL-32	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	4878-38	PEWTER MESH		
PL-40	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	D-96	SHADOW		FINISH: MATTE #60
PNL-1	HARDIE PANEL	JAMES HARDIE BUILDING PRODUCTS, INC.	NON-COMBUSTIBLE FIBER-CEMENT PANELS (SMOOTH NOT WOOD GRAIN)		PT-31B (U.N.O.)		
RS-1	ROLLER SHADE	PHIFER	SHEARWEAVE 4000 U61	5% OPENENESS - NOTCHLESS	ECO/GREYSTONE		4" FASCIA, DARK BRONZE TO MATCH STOREFRONT, ROLLEASE SKYLINE CLUTCH, (HEAT SEALED INTERNAL POCK HEM BAR), 110LB STAIN/STEEL ROLLEASE CHAIN, RE: INTERIOR ELEVATIONS
S-1	STAINLESS STEEL WALL PANELS		18 GAUGE STAINLESS STEEL PANELS, BRUSHED #4 MATTE FINISH	GRADE 430			LOCATED BEHIND KITCHEN EXHAUST HOODS, PREP SINK, WASH SINK, AND MOP SINK. RE: ELEVATIONS
SS-11	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	P1-9125	BLACK CORAL		WINDOWS SILLS, REFER TO DRAWINGS
SS-18	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	F1-8901	ELEVATION		SERVING COUNTERTOP, TROUGH SINK, REFER TO DRAWINGS
SS-19	SOLID SURFACE	DEKTON	INDUSTRIAL COLLECTION		SOKE	2CM THICK	WALK-UP COUNTERTOP, REFER TO DRAWINGS. FINISH: MATTE. GC PROVIDED/INSTALLED
SS-20	SOLID SURFACE	AVONITE	RIVERINE COLLECTION	8512	MIST		SERVING COUNTERTOP, TROUGH SINK, REFER TO DRAWINGS
TR-1	TRIM	BLANKE	EDGE PROTECTOR TRIM	300-280-0625	STAINLESS STEEL		

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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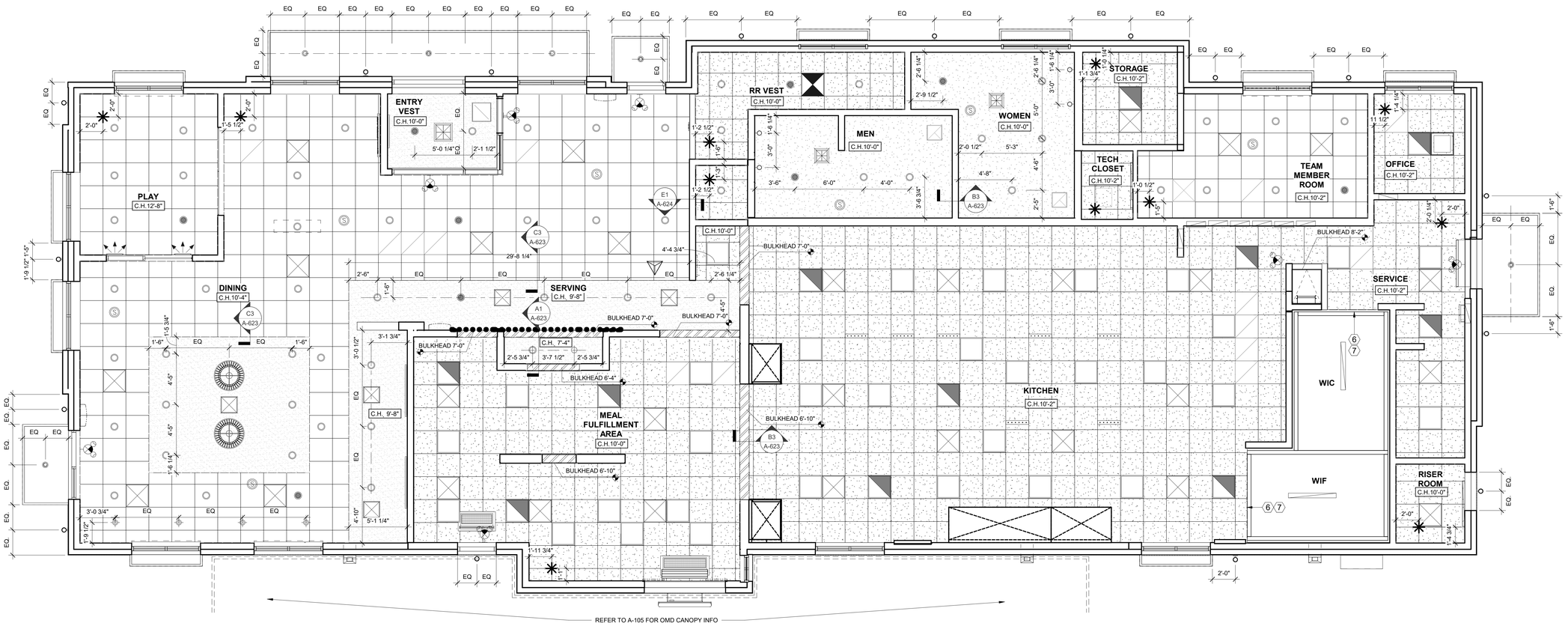
SHEET: FLOOR FINISH PLAN

SHEET NUMBER **A-211**



NORTH **C4** REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A.1 REFER TO FINISH SCHEDULE FOR FINISH INFORMATION NOT SHOWN ON THIS SHEET.
A.2 REFER TO MECHANICAL AND ELECTRICAL FOR INFORMATION ON LIGHT FIXTURES AND MECHANICAL FIXTURES.
A.3 ADJUST EXACT LOCATION OF LIGHT FIXTURES TO CLEAR CEILING GRID AND HVAC GRILLES.
A.4 IN GYPSUM BOARD CEILINGS, ALIGN FIXTURES AND GRILLES BETWEEN CEILING JOISTS.
A.5 DIMENSIONS SHOWN ARE TO FACE OF FINISH.
A.6 CEILING SPEAKERS ARE NOT SHOWN HERE. SPEAKERS SHALL BE PROVIDED AND INSTALLED BY OWNER'S SUPPLIER. WHERE SPEAKERS OCCUR IN LAY-IN CEILING, SPEAKERS SHALL BE CENTERED WITHIN CEILING TILES. GC SHALL COORDINATE WITH OWNER'S SPEAKER SUPPLIER AND CUT HOLES IN CEILING AS REQUIRED FOR SPEAKER PLACEMENT.
A.7 HEIGHTS SHOWN AT CEILINGS ARE TO BOTTOM OF FINISH.
A.8 HEIGHTS SHOWN AT LIGHT FIXTURES ARE TO BOTTOM OF FIXTURE.
A.9 GC SHALL COORDINATE WITH CANOPY SHOP DRAWINGS FOR FINAL DIMENSIONS AT DRIVE-THRU CANOPY - INCLUDING BUT NOT LIMITED TO: OVERALL CANOPY DIMENSIONS AND LOCATIONS OF HEATERS, FANS AND LIGHTS.
A.10 SUSPENDED CEILING GRIDS TO BE CENTERED WITHIN ROOMS AS SHOW IN RCP,TYP, UNLESS SPECIFIED W/A GRID START POINT.
A.11 NOT USED.
A.12 CEILING HEIGHTS AND SPOT ELEVATIONS SHOWN ON THIS SHEET ARE MEASURED FROM FINISH FLOOR.

RCP KEYNOTES

6	FRP CORNER GUARDS & TRIM AT COOLER AND FREEZER SOFFITS.
7	METAL CLOSURE PANELS ABOVE FREEZER AND COOLER TO BE INSTALLED AFTER CEILING GRID IS IN PLACE BY GC. RE: KITCHEN EQUIPMENT DRAWINGS.

FINISH SCHEDULE - RCP

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
01_CEILING FINISHES							
ACT-1	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA VINYLROCK	1142-CRF-1	WHITE	24" x 24" x 1/2"	GRID:STANDARD 15/16" SQUARE LAY-IN GRID, WHITE
ACT-2	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA SYMPHONY M	1222BF-75-1	WHITE	24' X 24" X 3/4"	GRID: ELITE NARROW REVEAL (CORNER BEVEL) 9/16" GRID, WHITE
ACT-11	ACOUSTICAL CEILING PANEL AND GRID	USG	MARS ACOUSTICAL PANELS	86785	WHITE	24" x 24" x 1/2"	GRID: USG DX/DXL 15/16" SHADOWLINE TAPERED LAY-IN GRID, WHITE
ACT-12	ACOUSTICAL CEILING PANEL AND GRID	USG	SHEETROCK BRAND LAY-IN GYPSUM CEILING PANELS	3260	WHITE	24" x 24" x 1/2"	GRID: USG DX/DXL 15/16" SQUARE LAY-IN GRID, WHITE
PT-9A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: FLAT
PT-31A	PRIMARY INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: FLAT (SEMI-GLOSS ON HARDIE PANEL)
PT-36A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: FLAT

REFLECTED CEILING PLAN LEGEND:

- LAY-IN CEILING TILE (ACT-1)
- LAY-IN CEILING TILE (ACT-2)
- CEILING GRID START POINT
- GYPSUM BOARD (PT-31A) RE: FINISH PLAN FOR FINISHES
- PREFINISHED METAL CANOPY BY CANOPY FABRICATOR
- 2' X 2' RECESSED LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- 2' X 2' RECESSED EMERGENCY LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- RECESSED CAN LIGHT FIXTURE RE: ELECTRICAL
- RECESSED EMERGENCY CAN LIGHT FIXTURE - RE: ELECTRICAL
- DINING TABLE PENDANT CENTERED OVER TABLE RE: ELECTRICAL
- LED STRIP LIGHT RE: ELECTRICAL
- PEACH BASKET PENDANT RE: ELECTRICAL
- INTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXIT LIGHT - WALL MOUNTED RE: ELECTRICAL
- COCA-COLA PENDANT FIXTURE
- SUPPLY AIR VENT RE: MECHANICAL
- RETURN AIR VENT RE: MECHANICAL
- WALL DIFFUSER RE: MECHANICAL
- AIR CURTAIN WALL-MOUNTED RE: MECHANICAL
- AIR CURTAIN RECESSED RE: MECHANICAL
- AIR CURTAIN RECESSED NOZZLE EXTENSION RE: MECHANICAL
- EXHAUST HOOD RE: MECHANICAL
- FLY LIGHT (BOH) RE: KITCHEN
- FLY LIGHT (FOH) RE: KITCHEN
- DROP CORDS RE: ELECTRICAL
- 3-SIDED PICK-UP SIGN MOUNTED TO CEILING GRID, PROVIDED BY OWNER
- MENU BOARDS
- DOWNSPOUT
- ROOF HATCH
- SPEAKER - VENDOR TO VERIFY LOCATIONS W/ GC (S)

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CHICK-FIL-A
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SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

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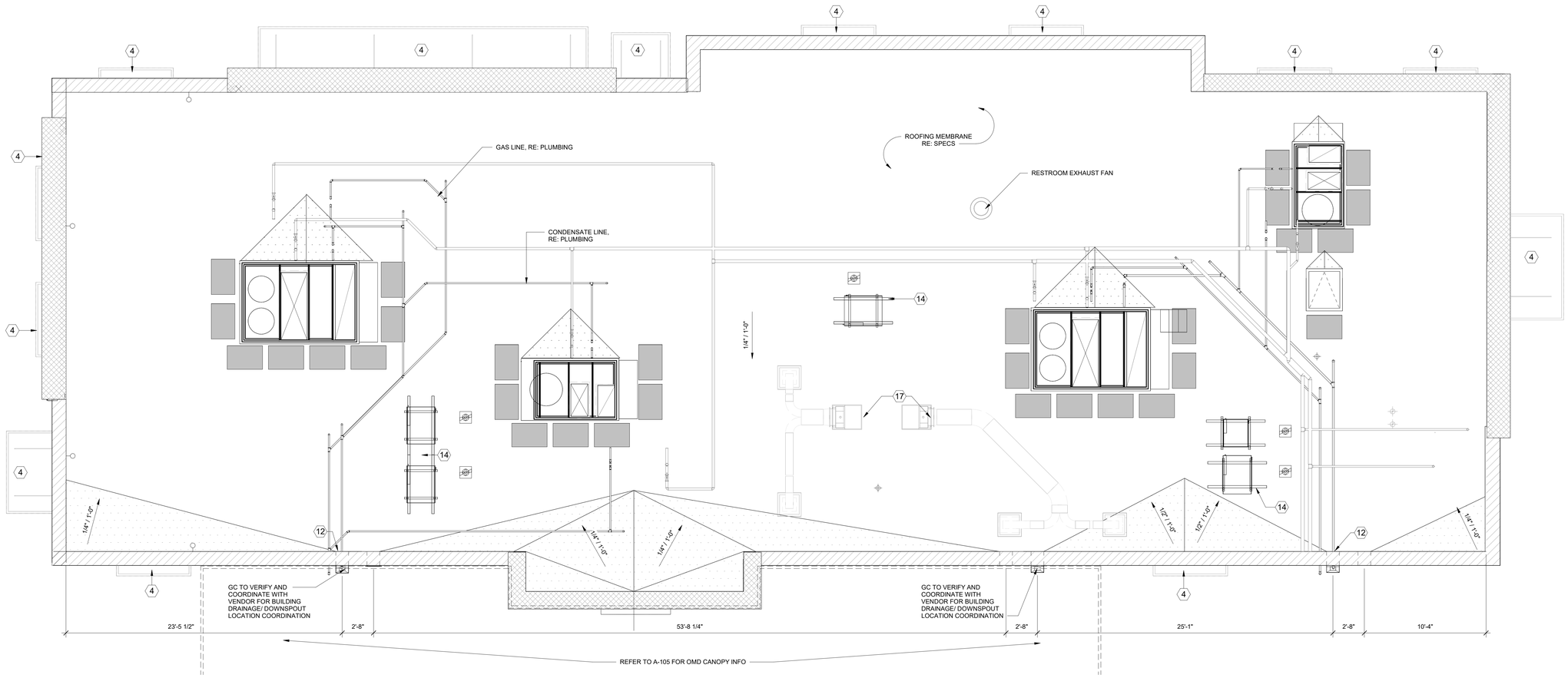
SHEET
REFLECTED CEILING PLAN

SHEET NUMBER
A-221



NORTH

C4 ROOF PLAN
1/4" = 1'-0"

ROOF SQUARE FOOTAGE: 5,154 SF (+/-)

NOTE:
SQUARE FOOTAGE PROVIDED IS AN ESTIMATE ONLY, GC / CFA RESPONSIBLE TO CONFIRM PRIOR TO MATERIAL ORDER.

ROOF PLAN GENERAL NOTES

- A.1 R-VALUE OF RIGID INSULATION MAY VARY DEPENDING ON MANUFACTURER. GC SHALL BE RESPONSIBLE FOR VERIFYING APPROPRIATE THICKNESS TO MEET R-VALUE REQUIREMENTS.
- A.2 VERTICAL ROOF MEMBRANE SURFACES ON VERTICAL BACK WALLS OF PARAPET AND KICKERS (WHERE USED) SHALL BE TAN. ALL OTHER ROOF MEMBRANES SURFACES SHALL BE WHITE.
- A.3 PROVIDE PIPE SUPPORTS (NOT SHOWN HERE) FOR GAS AND CONDENSATE LINES AT 4'-0" O.C. MAX.
- A.4 REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING ROOF PLANS FOR INFORMATION NOT SHOW HERE.
- A.5 PAINT ALL EXPOSED GAS PIPING ON ROOF DARK BRONZE (2 COATS).
- A.6 ALL CONDENSATE LINES SHALL BE INSTALLED TO PROVIDE POSITIVE DRAINAGE. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO ELIMINATE SAGGING.
- A.7 NOT USED.
- A.8 ROOF PENETRATIONS TO BE INSTALLED PER DETAILS C1/A503 AND C2/A503.

ROOF PLAN KEYNOTES

4	CANOPY BELOW BY FABRICATOR. RE: CANOPY SHOP DRAWINGS FOR FINAL DIMESNIONS AND LOCATIONS.
12	DISCHARGE CONDENSATE INTO DOWNSPOUT - RE: PLUMBING ROOF DRAWING.
14	ALUMINUM EQUIPMENT STAND SUPPORTS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLORIDA OR APPROVED EQUAL. AT WALK-IN CONDENSERS - (2 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 31" APART. AT ICE MAKER CONDENSERS - (3 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 24" APART WITH (2) SUPPORTS UNDERNEATH. STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE (48" O.C. AT ICE MAKER CONDENSERS) AND SHALL BE SIZED INSTALLED ACCORDING TO THE MANUFACTURER'S LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: 800-266-7212.
17	EXHAUST FAN. RE: MECHANICAL.

ROOF PLAN LEGEND

- WHITE WALK PAD MEMBRANES WITH YELLOW SAFETY STRIPES, TYP.
- 3/8" X 4 1/2" EYE SCREW ANCHORS (INSTALL 2x SOLID BLOCKING BETWEEN STUDS TO ATTACH ANCHOR). LOCATIONS APPROXIMATE. VERIFY WITH OWNER AND CONSTRUCTION MANAGER. RE: DETAIL C3 / A-503 .
- 2'-6" X 3'-0" ROOF HATCH. BILCO OR EQUAL.
- PIPING PENETRATION. RE: C1 / A-503 AND PLUMBING ROOF PLAN FOR PIPE DESCRIPTIONS
- SCUPPER, LEADER HEAD & DOWNSPOUT. RE: A2 / A-503 & A4 / A-503 . RE: EXTERIOR ELEVATIONS FOR LOCATION.
- REMOTE CONDENSING UNIT. RE: KITCHEN EQUIPMENT SCHEDULE
- AIR FLOW DIRECTION
- OVERFLOW SCUPPER. RE: A2 / A-503 & A4 / A-503. INSTALL WITH BOTTOM EDGE 2" ABOVE ROOF SURFACE. GC TO ENSURE SCUPPER IS INSTALLED DURING MAIN ROOFING OPERATION.
- EXTENDED PARAPET
- REGULAR PARAPET
- RTU. RE: MECHANICAL
- CRICKET, CONSTRUCTED OF ROOF MEMBRANE ON RIGID INSULATION - SLOPE AT 1/4" PER FOOT, MIN.
- A1 / A-503
- RESTROOM EXHAUST. RE: MECH

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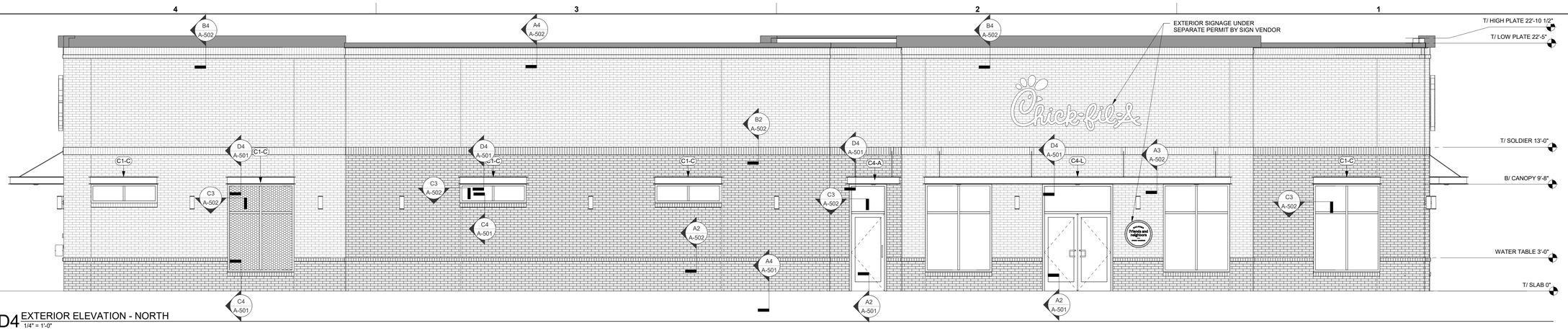
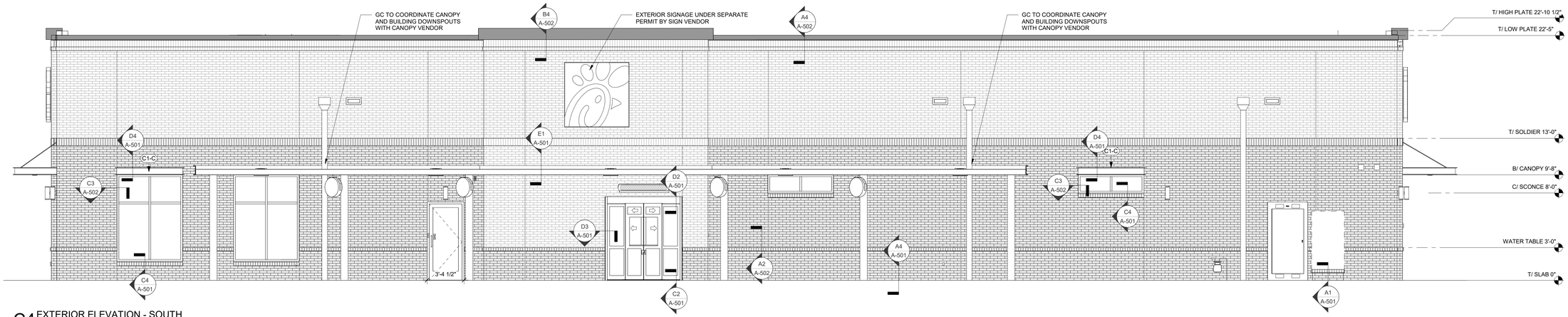
SHEET: ROOF PLAN

SHEET NUMBER: A-230



D4 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"



C4 EXTERIOR ELEVATION - SOUTH
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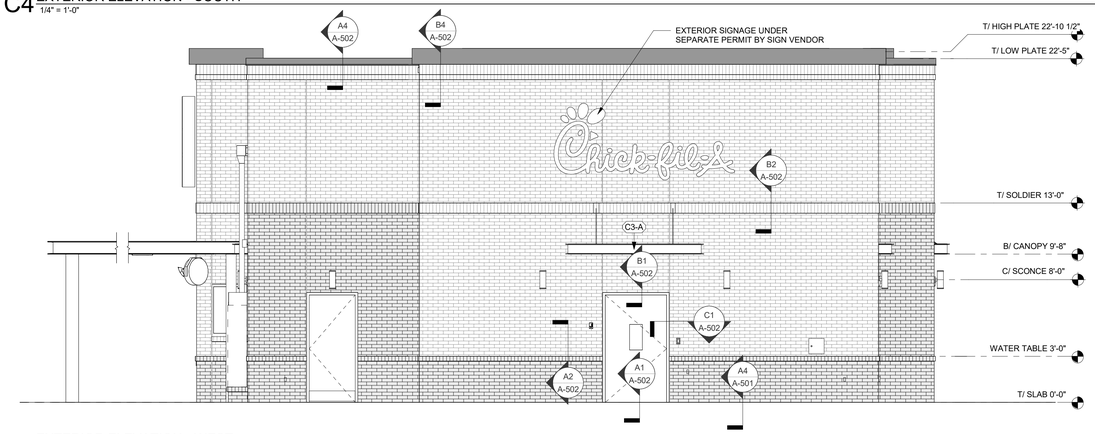
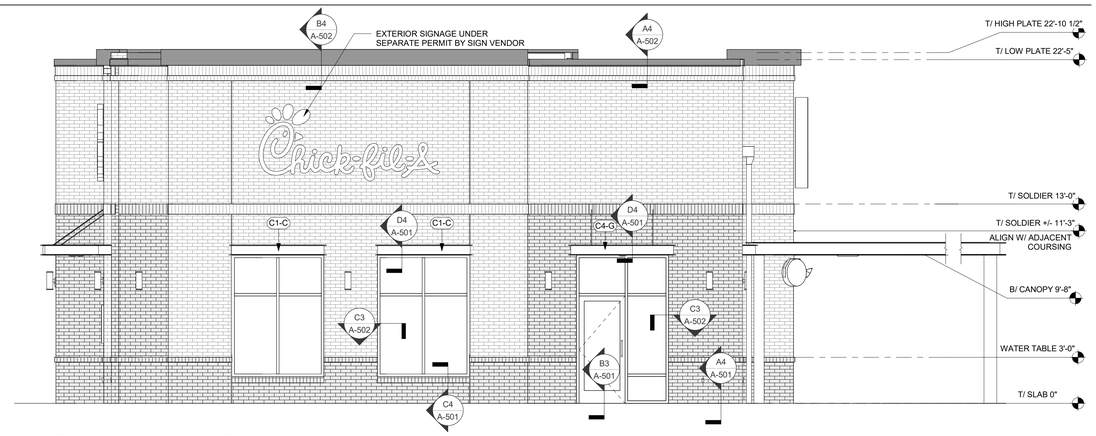


B4 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"



B2 EXTERIOR ELEVATION - EAST
1/4" = 1'-0"

CANOPY NOTES:

BUILDING MOUNTED CANOPIES
- 8" THICK CANOPY
- KYNAR FINISH OF STRUCTURE, FASCIA, & DECKING TO MATCH (CP-1)

COLUMN MOUNTED CANOPIES
- 10" THICK CANOPY
- FINISH OF STRUCTURE TO BE (CP-1)
- FINISH OF DECKING TO BE (CP-2)

LEGEND

BR-B
BR-A
EC-1
EXPANSION JOINT, SEALANT COLOR TO MATCH MORTAR COLOR, RE: SPECIFICATIONS
CARD READER BY SECURITY VENDOR - RE: ELEC
SCUPPER - (PT-113) SEE A2 / A-503
DOWNSPOUT - (PT-113) SEE A4 / A-503
MDP - (PT-113) RE: ELECTRICAL
OIL EXTRACTION PORT ACCESS BOX
CO2 FILL BOX - RE: KITCHEN
LIGHT FIXTURE - RE: ELECTRICAL
CT CABINET - (PT-113) RE: ELECTRICAL

ATTACHED CANOPY SCHEDULE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	9	6'-4"	1'-0"	0"	No
C3-A	Exterior Canopy	1	9'-0"	5'-0"	2'-6"	Yes
C4-A	Exterior Canopy	1	5'-0"	4'-0"	2'-4"	Yes
C4-G	Exterior Canopy	1	7'-0"	4'-0"	2'-4"	Yes
C4-L	Exterior Canopy	1	28'-0"	4'-0"	2'-4"	Yes
Grand total		13				

GENERAL NOTES
1. ALL SIGNAGE PROVIDED BY OTHERS UNDER SEPARATE PERMIT.
2. RE: SHEET A-201 FLOOR PLAN AND A-801 WINDOW LEGEND FOR STOREFRONT AND GLAZING INFORMATION

APPROVED BRICK ALTERNATES

(SEE NATIONAL ACCOUNTS LIST FOR CONTACT INFORMATION)

FINISH	MANUFACTURER	MODEL	MORTAR	PLANT LOCATION	PREFERRED REGION(S)
BR-A (PRIMARY BRICK)					
BR-02	ACME BRICK	PALOMA GRAY	ARGOS, SAN TAN	ELGIN, TX	SOUTHWEST
BR-18	MUTUAL MATERIALS	IMPERIAL GRAY	ARGOS, SAN TAN	MICA, WA	WEST
BR-20	GLEN-GERY	KHAKI MATT	ARGOS, SAN TAN	CHESWICK, PA	ATLANTIC, NORTHEAST, MIDWEST
BR-30	CHEROKEE BRICK	LIGHT GRAY SMOOTH	ARGOS, SAN TAN	MACON, GA	SOUTHEAST
BR-B (ACCENT BRICK)					
BR-03	ACME BRICK	RUSTIC WHITE	ARGOS, SAN TAN	MALVERN, AR	SOUTHWEST
BR-19	MUTUAL MATERIALS	DESERT WHITE	ARGOS, SAN TAN	MICA, WA	WEST
BR-26	GLEN-GERY	WHITEHALL	ARGOS, SAN TAN	CHESWICK, PA	ATLANTIC, NORTHEAST, MIDWEST
BR-31	CHEROKEE BRICK	OATMEAL SMOOTH	ARGOS, SAN TAN	MACON, GA	SOUTHEAST

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	BRICK VENEER (PRIMARY)	*	MODULAR	*	*	*SEE APPROVED BRICK ALTERNATES
BR-B	BRICK VENEER (ACCENT)	*	MODULAR	*	*	*SEE APPROVED BRICK ALTERNATES
CP-1	CANOPY METAL FASCIA		DURA COAT	DC19ST-2703	DARK BRONZE	OIL RUBBED BRONZE METALLIC TEXTURE PVD
CP-2	CANOPY METAL DECK				WHITE	SMOOTH WHITE, HIGH GLOSS
EC-1	PARAPET WALL COPING	DUROLAST / EXCEPTIONAL METALS			MIDNIGHT BRONZE	
PT-100	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350	SW 2807	ROOKWOOD	REFUSE ENCLOSURE. FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-113	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350	SW Bronzetone	DARK BRONZE	FINISH: SEMI-GLOSS
ST-1	STOREFRONT	YKK	YES 45TU		DARK BRONZE (MATTE)	

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
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FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
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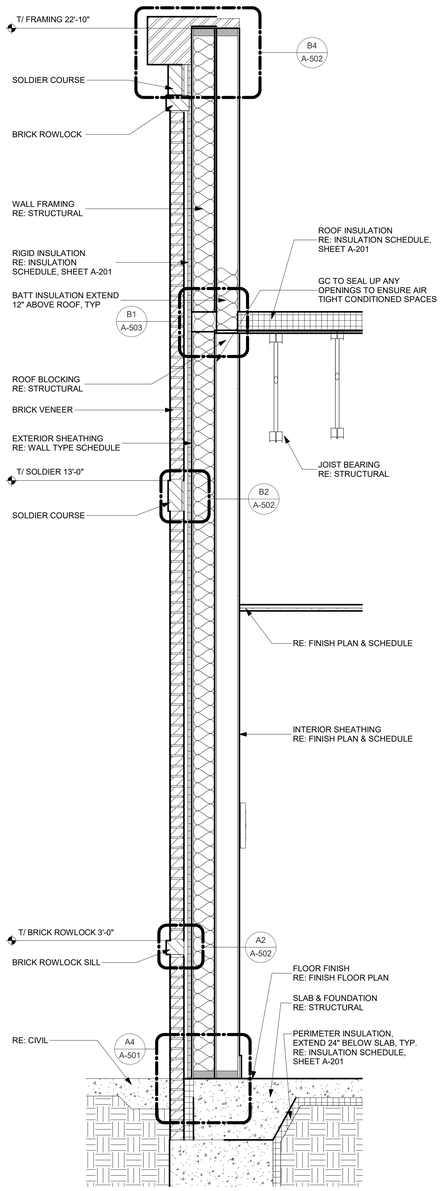
DRAWN BY ZJ
CHECKED BY JF

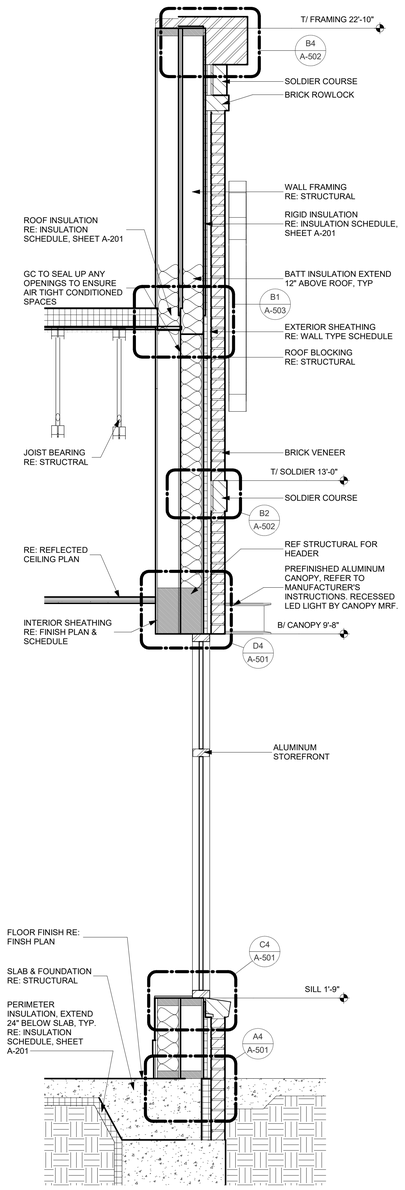
SHEET
EXTERIOR ELEVATIONS

SHEET NUMBER
A-301

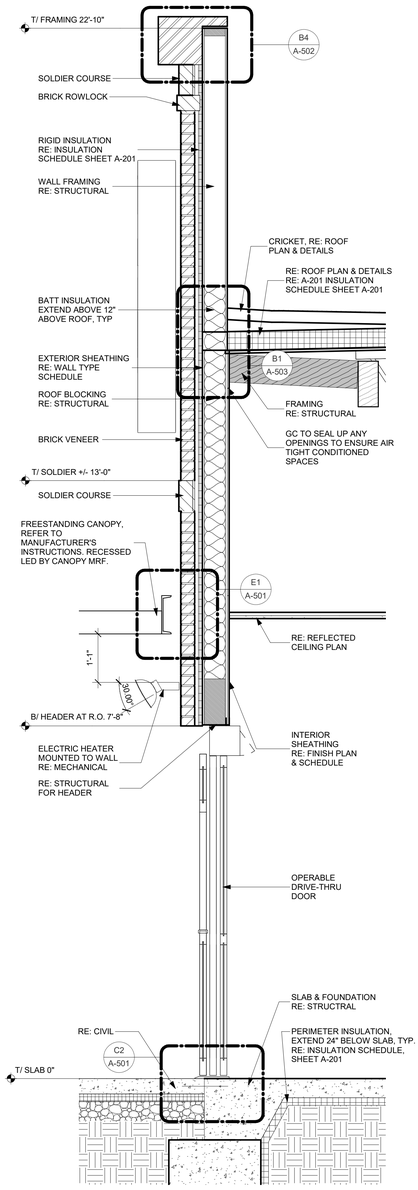
NOTE:
GC TO PROVIDE FIRE BLOCKINGS IN COMBUSTABLE STUD WALLS, IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE SECTION 718.2.2



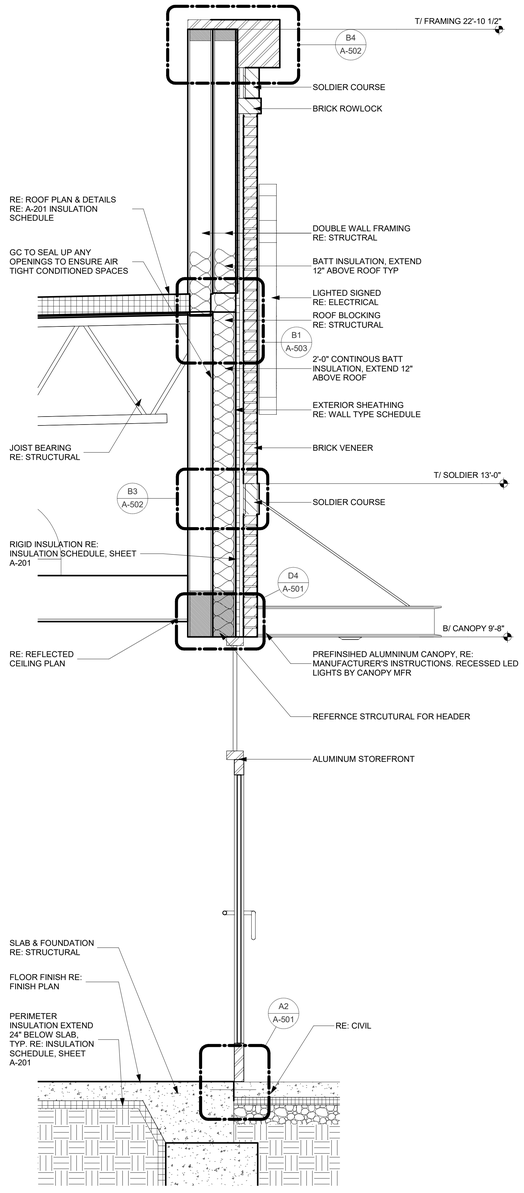
A4 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION
3/4" = 1'-0"



A1 WALL SECTION
3/4" = 1'-0"

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Atlanta, Georgia
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SW Corner Hwy 50 & MO State Rte 291
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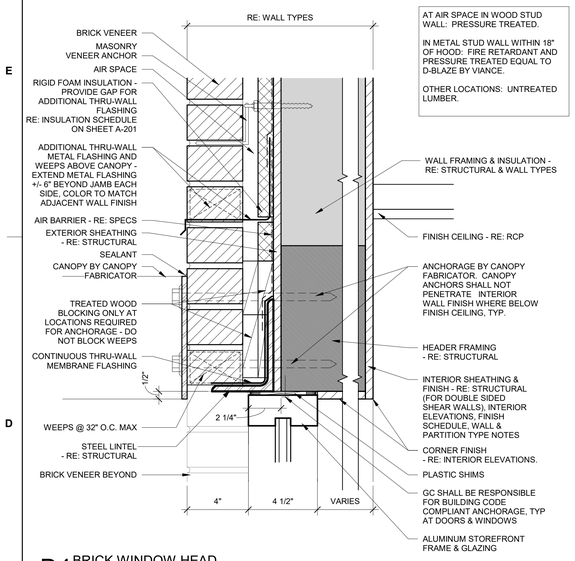
CHECKED BY JF

SHEET
WALL SECTIONS

SHEET NUMBER
A-401

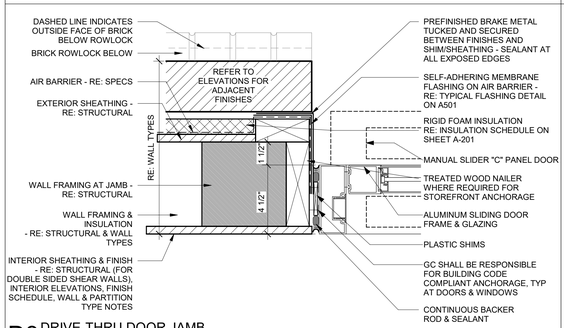


AT AIR SPACE IN WOOD STUD WALL: PRESSURE TREATED.

IN METAL STUD WALL WITHIN 18" OF HOOD: FIRE RETARDANT AND PRESSURE TREATED EQUAL TO D-BLAZE BY VIANCE.

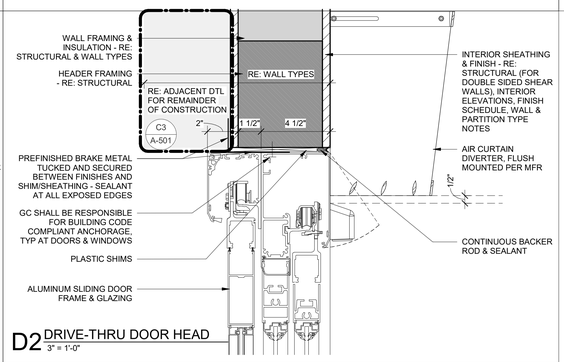
OTHER LOCATIONS: UNTREATED LUMBER.

D4 BRICK WINDOW HEAD
3" = 1'-0"

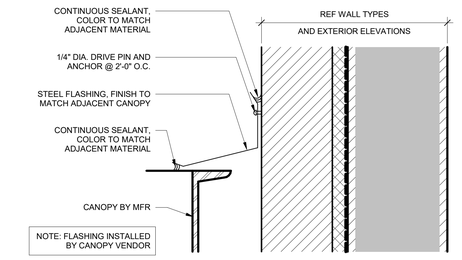


D3 DRIVE-THRU DOOR JAMB
3" = 1'-0"

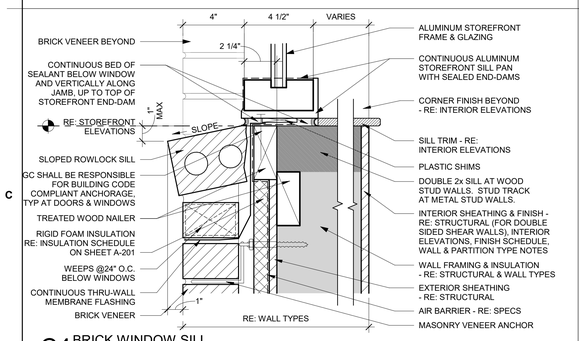
NOTE:
1. SEE STRUCTURAL DRAWINGS FOR BRICK LEDGE SIZING
2. PROVIDE MINIMUM 1" AIR GAP IN EXTERIOR WALL CONSTRUCTION
3. EXTERIOR WALL CONSTRUCTION :
   -FOR WOOD WALLS - FROM FACE OF FRAMING TO FACE OF BRICK: 6-1/8" (ACCOUNTS FOR 1" AIR GAP)
   -FOR METAL WALLS - FROM FACE OF FRAMING TO FACE OF BRICK: 6-5/8" (ACCOUNTS FOR 1" AIR GAP AND REQUIRED RIGID INSULATION THICKNESS)



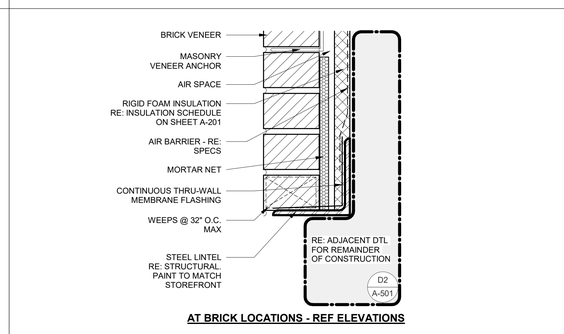
D2 DRIVE-THRU DOOR HEAD
3" = 1'-0"



E1 DETACHED CANOPY FLASHING DETAIL
3" = 1'-0"

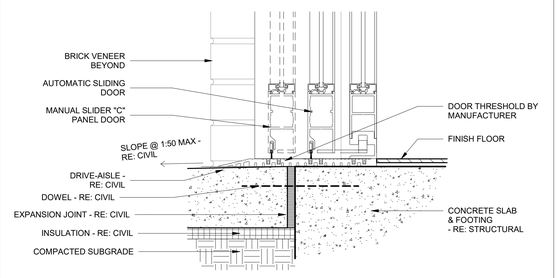


C4 BRICK WINDOW SILL
3" = 1'-0"

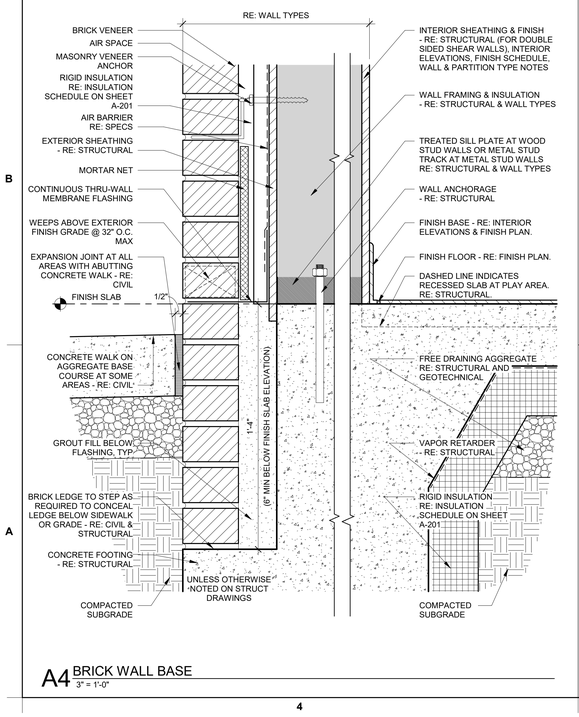


AT BRICK LOCATIONS - REF ELEVATIONS

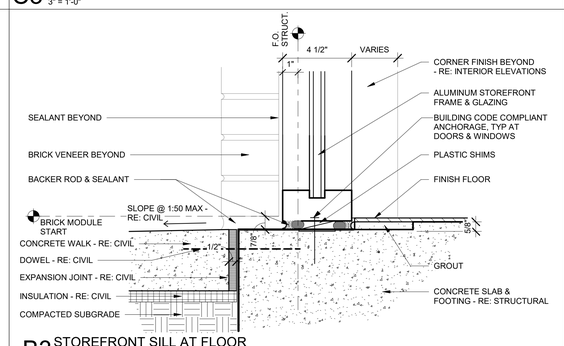
C3 DRIVE-THRU DOOR HEAD - FINISHES
3" = 1'-0"



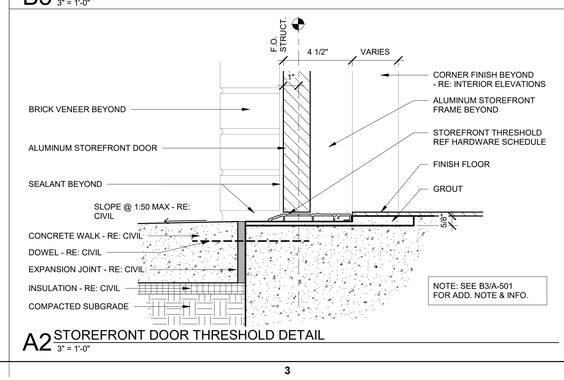
C2 DRIVE-THRU DOOR THRESHOLD
3" = 1'-0"



A4 BRICK WALL BASE
3" = 1'-0"

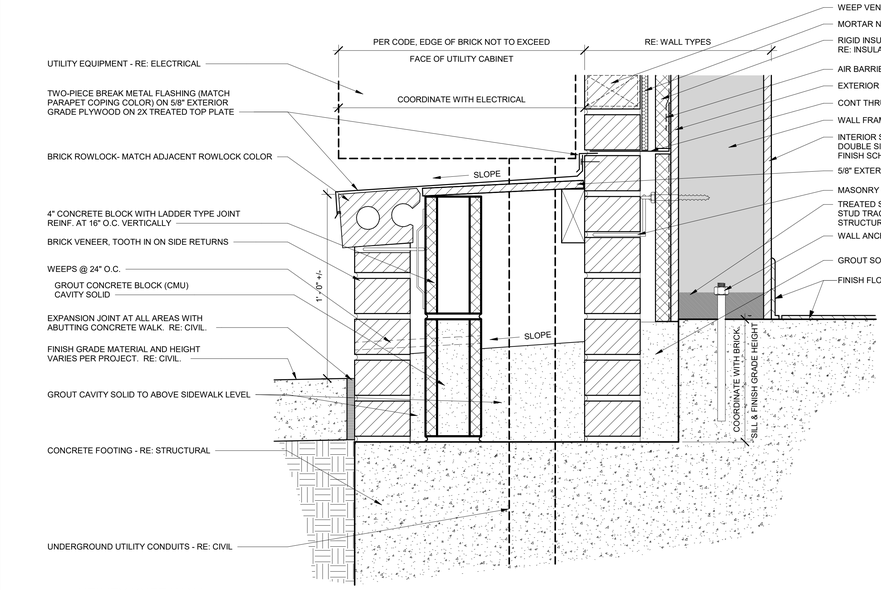


B3 STOREFRONT SILL AT FLOOR
3" = 1'-0"



NOTE: SEE B3/A-501 FOR ADD. NOTE & INFO.

A2 STOREFRONT DOOR THRESHOLD DETAIL
3" = 1'-0"



A1 UTILITY KNEE WALL
3" = 1'-0"

Chick-fil-A
5200 Buffington Road
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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

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CHECKED BY	JF

SHEET: EXTERIOR DETAILS

SHEET NUMBER: **A-501**

NOTE:
1. SEE STRUCTURAL DRAWINGS FOR BRICK LEDGE SIZING
2. PROVIDE MINIMUM 1" AIR GAP IN EXTERIOR WALL CONSTRUCTION
3. EXTERIOR WALL CONSTRUCTION :
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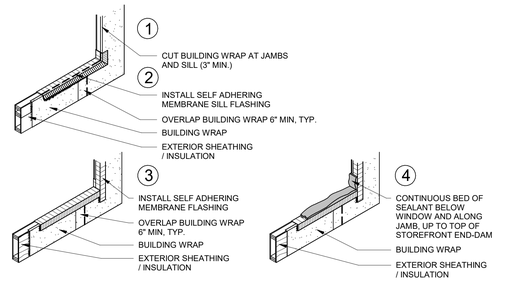
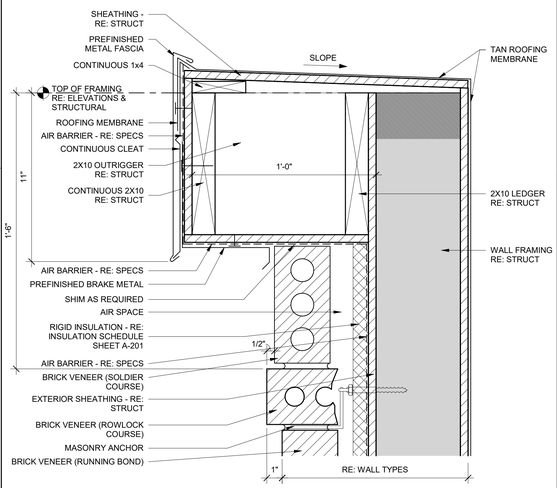
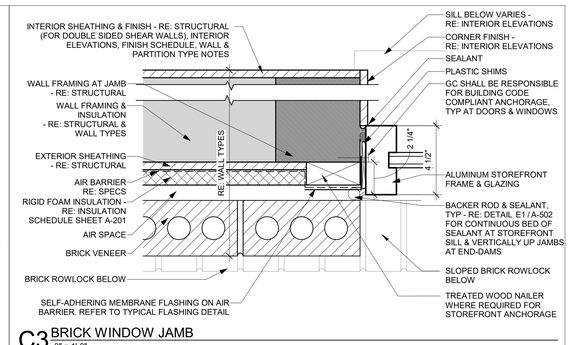


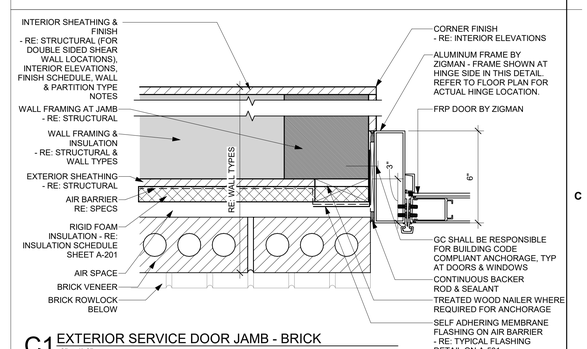
E1 TYPICAL FLASHING AT BRICK JAMBS & SILL
N.T.S.



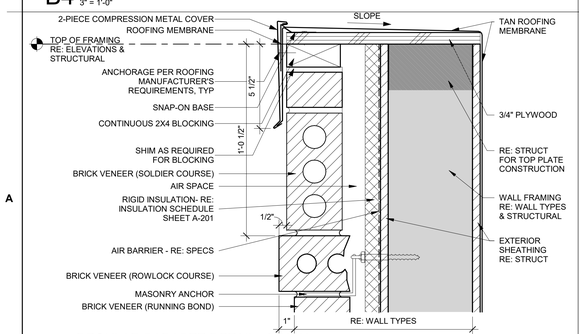
B4 EXTENDED PARAPET DETAIL - BRICK
3" = 1'-0"



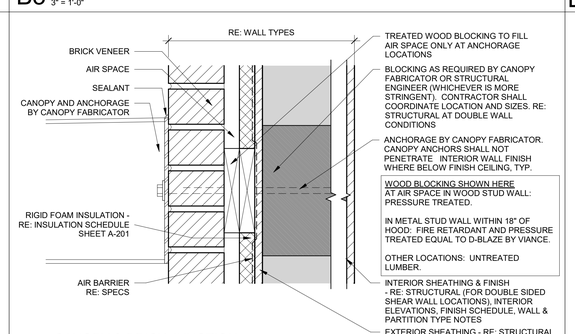
C3 BRICK WINDOW JAMB
3" = 1'-0"



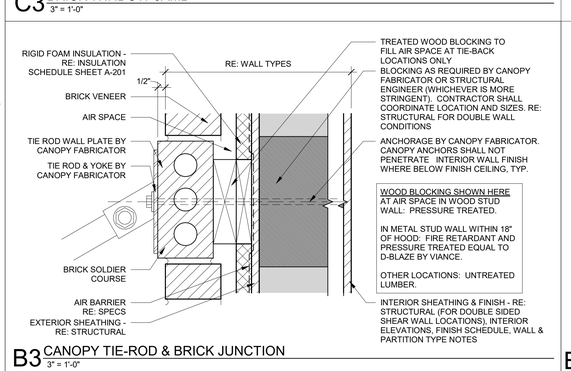
C1 EXTERIOR SERVICE DOOR JAMB - BRICK
3" = 1'-0"



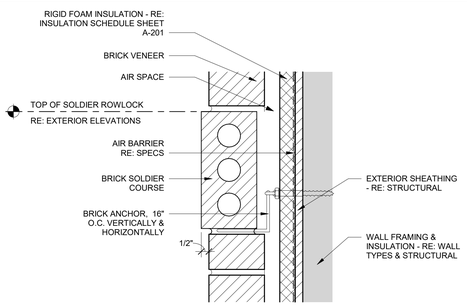
A4 REGULAR PARAPET DETAIL - BRICK
3" = 1'-0"



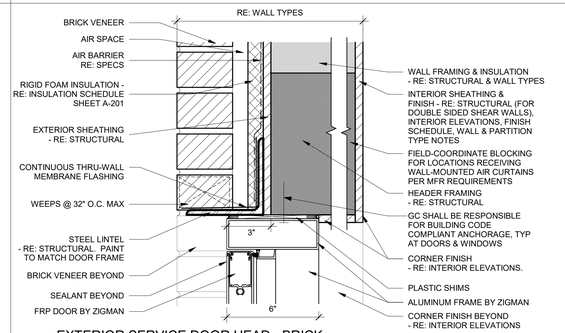
A3 CANOPY & BRICK JUNCTION
3" = 1'-0"



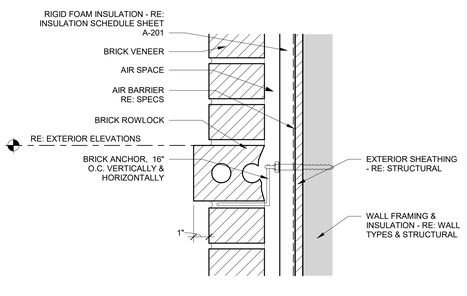
B3 CANOPY TIE-ROD & BRICK JUNCTION
3" = 1'-0"



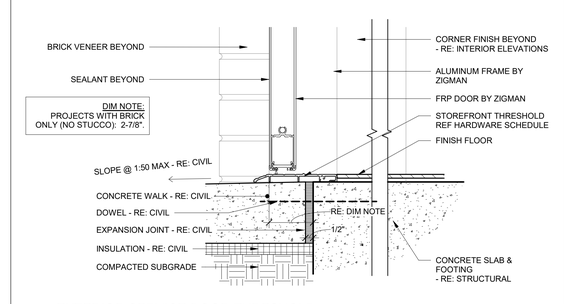
B2 BRICK WALL SOLDIER COURSE
3" = 1'-0"



B1 EXTERIOR SERVICE DOOR HEAD - BRICK
3" = 1'-0"



A2 BRICK WALL ROWLOCK SILL
3" = 1'-0"



A1 EXTERIOR SERVICE DOOR THRESHOLD
3" = 1'-0"

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FSR#05248

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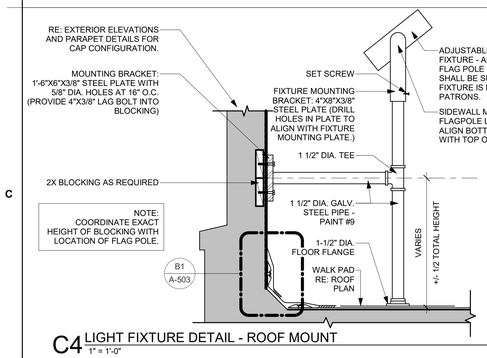
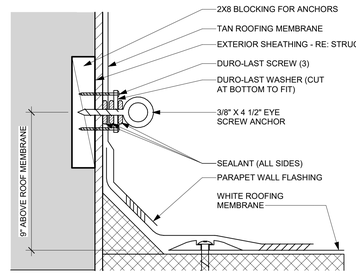
SHEET
EXTERIOR DETAILS

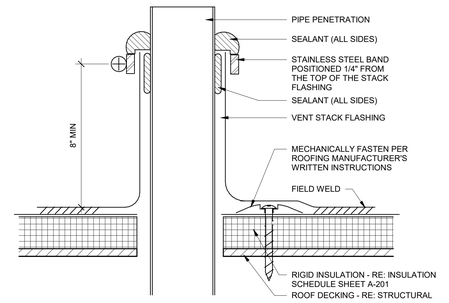
SHEET NUMBER
A-502



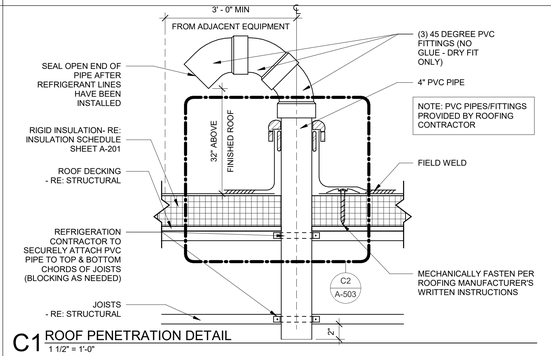
C4 LIGHT FIXTURE DETAIL - ROOF MOUNT
1" = 1'-0"



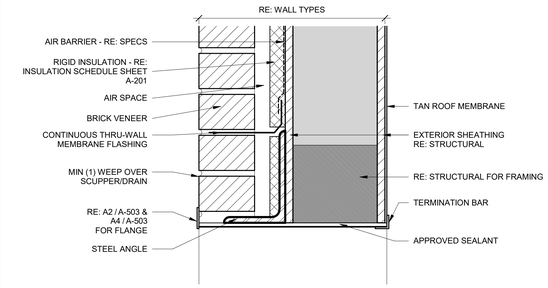
C3 TYP PARAPET ANCHOR DETAIL
3" = 1'-0"



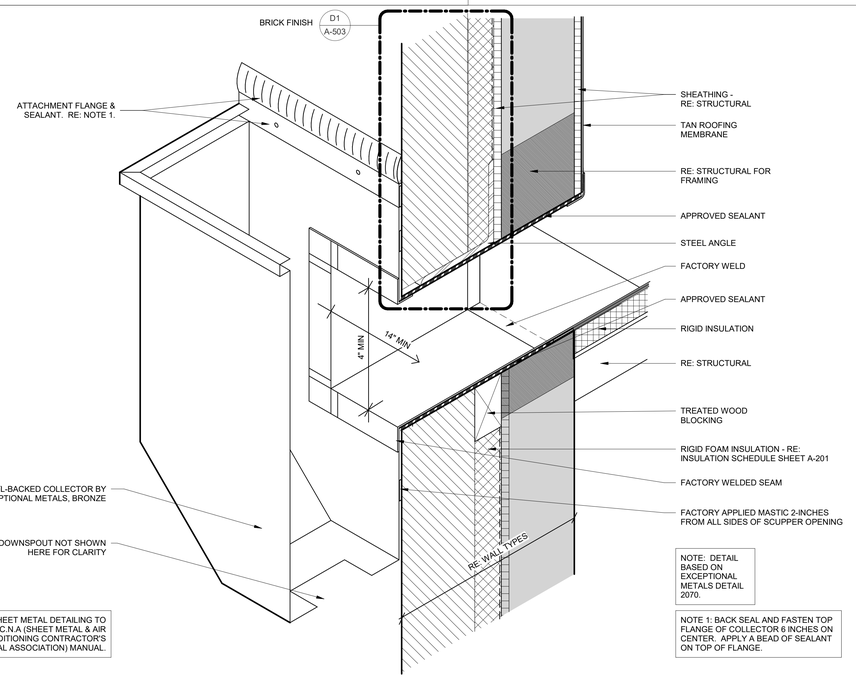
C2 TYP ROOF PENETRATION DETAIL
3" = 1'-0"



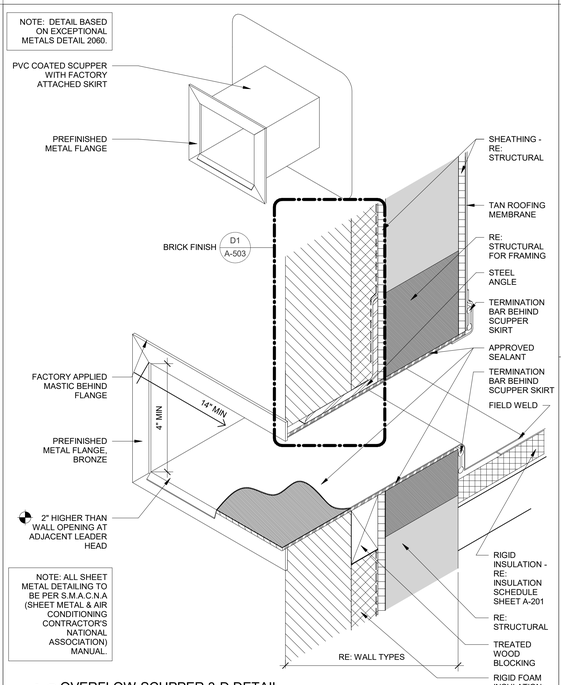
C1 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



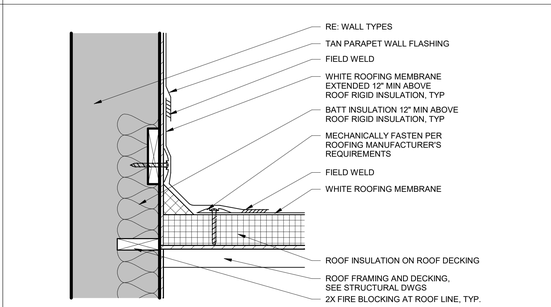
D1 SCUPPER/DRAIN DETAIL - BRICK
3" = 1'-0"



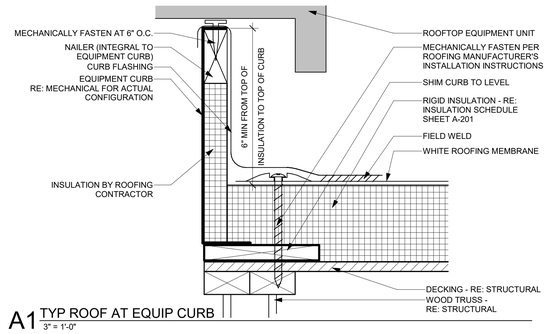
A4 VINYL-BACK COLLECTOR (LEADER HEAD) 3-D DETAIL
3" = 1'-0"



A2 OVERFLOW SCUPPER 3-D DETAIL
3" = 1'-0"



B1 TYP ROOF TO WALL SECTION
1 1/2" = 1'-0"



A1 TYP ROOF AT EQUIP CURB
3" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
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DATE	11/18/24
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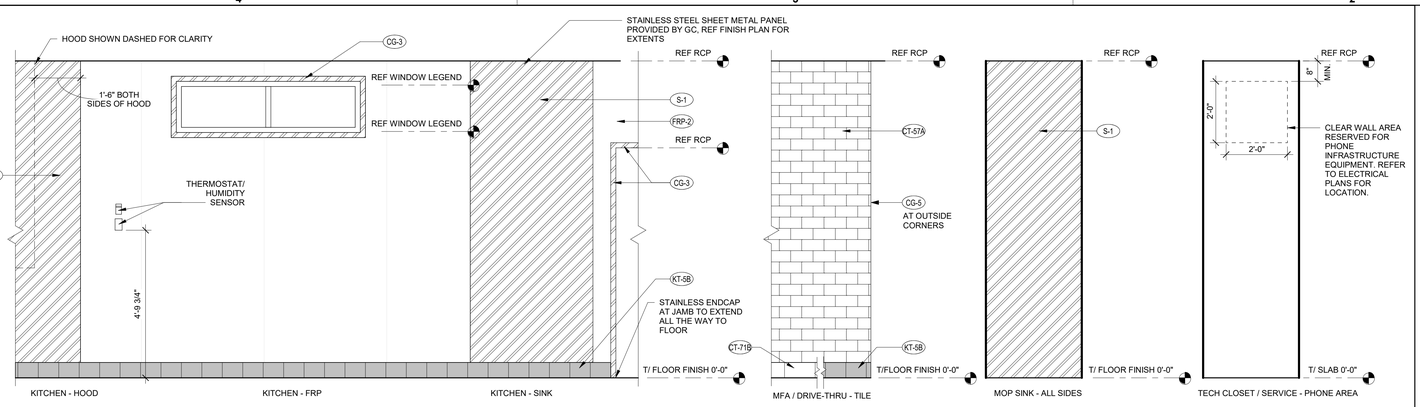
CHECKED BY	JF

SHEET: EXTERIOR DETAILS

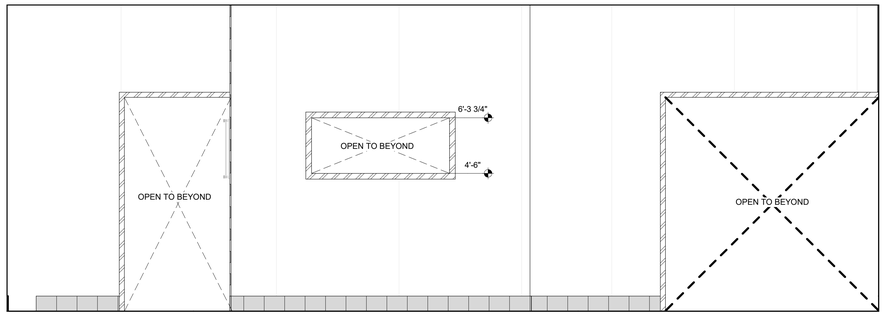
SHEET NUMBER
A-503



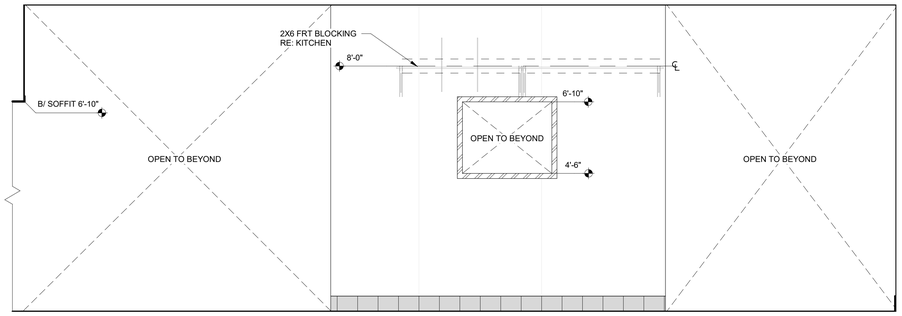
KITCHEN STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

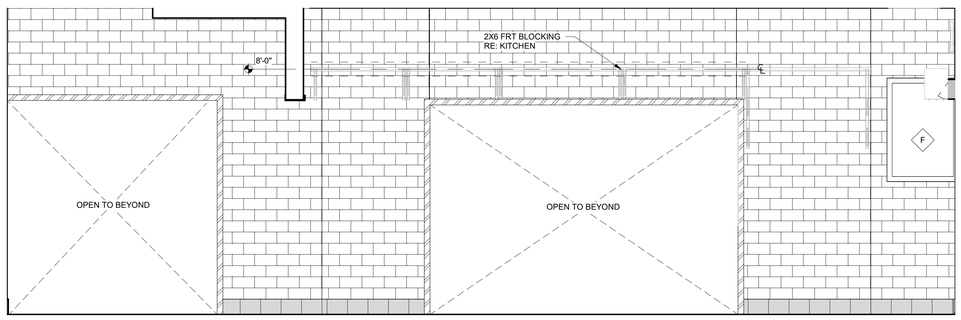
A.1 REFER TO E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO -/--- FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS.
A.9 REFER TO A4 / A-624 FOR DETAIL.
REFER TO E3 / A-624 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



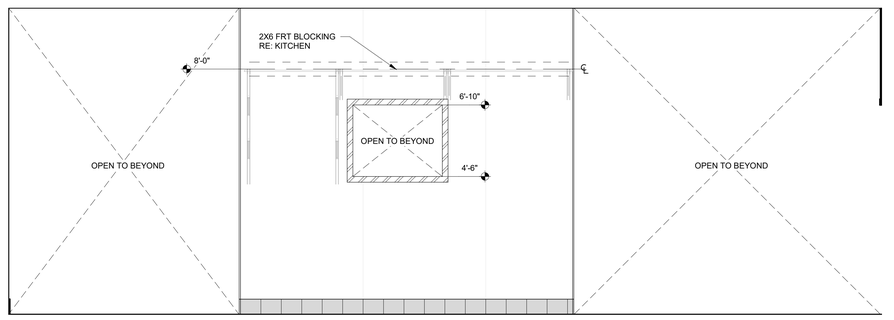
C4 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"



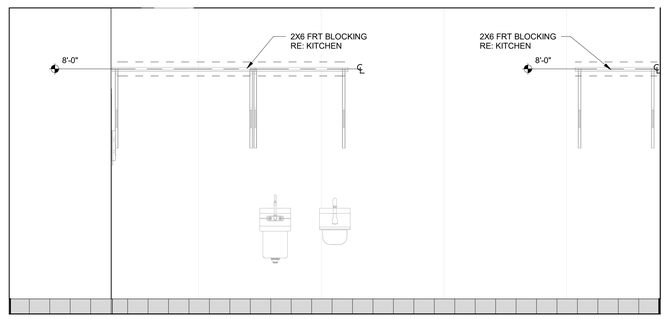
C2 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"



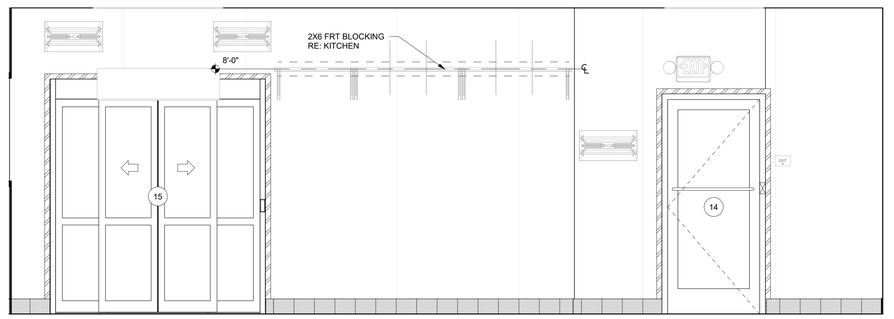
B4 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"



B1 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"



A4 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"



A2 INTERIOR ELEVATION - MEAL FULFILLMENT AREA
1/2" = 1'-0"

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FSR#05248

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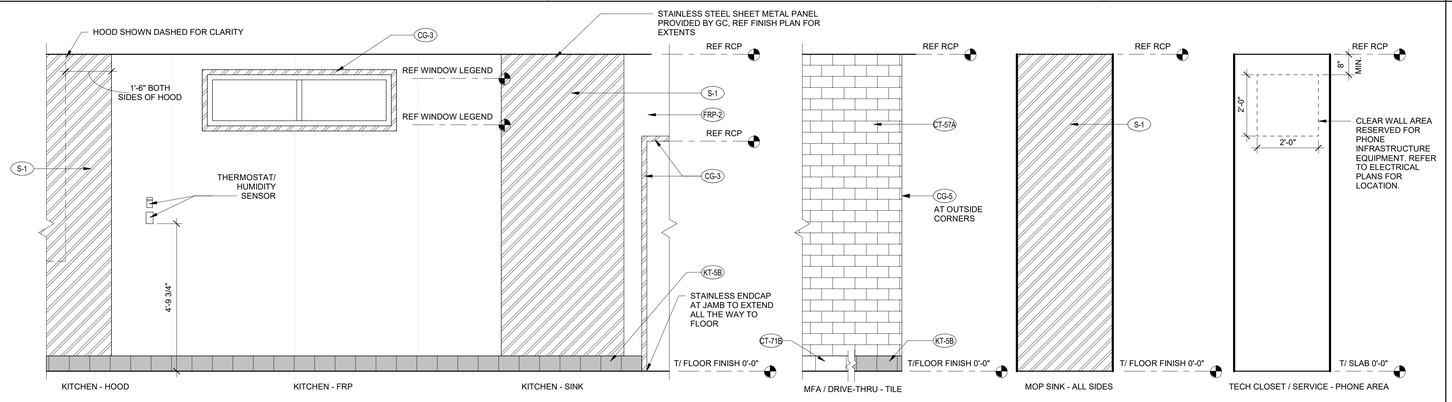
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-601



KITCHEN STANDARD ELEVATIONS

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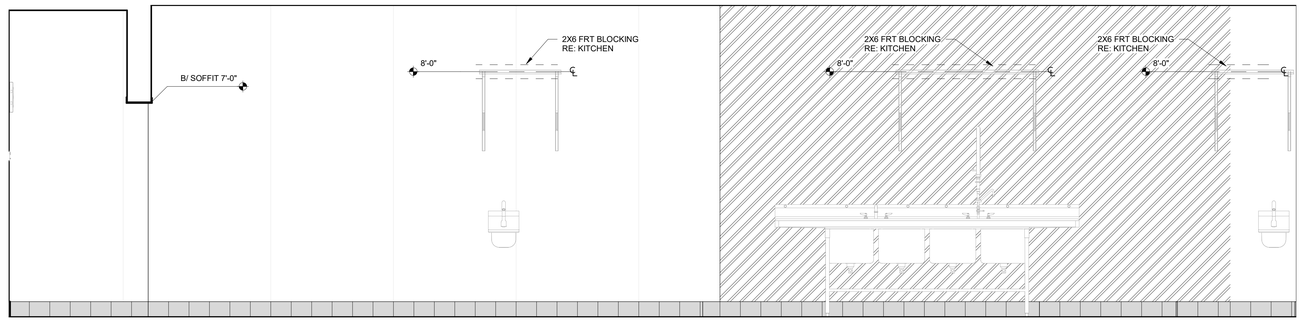
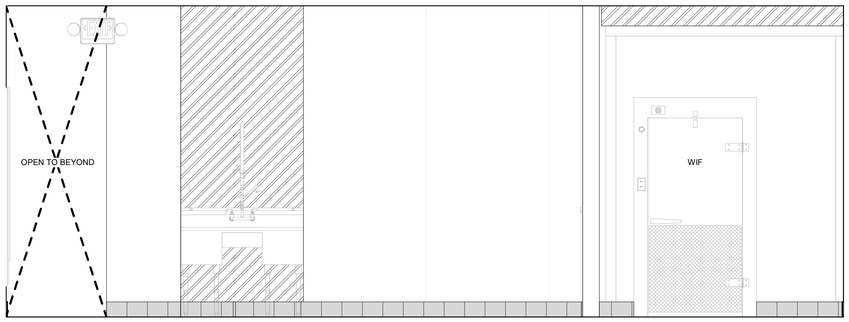
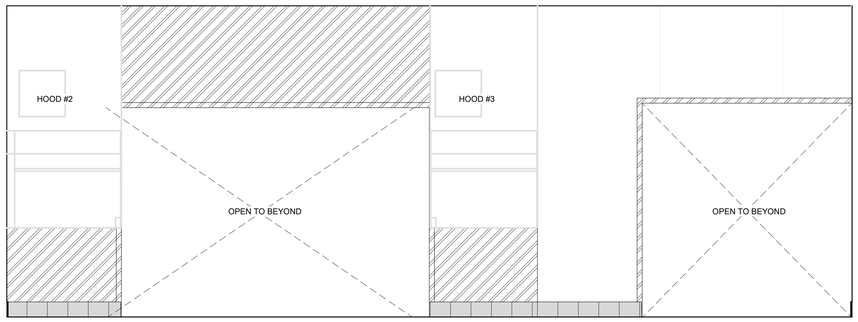


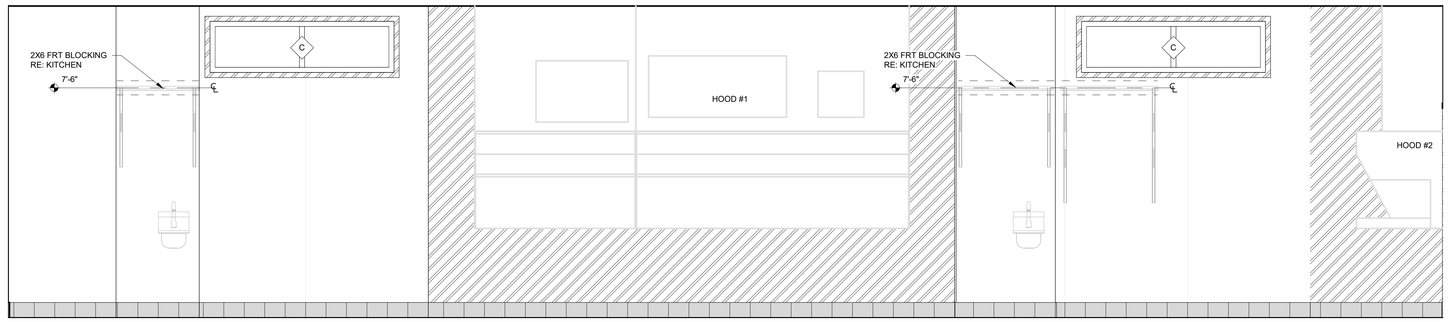
C3 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



B4 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



B2 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



A3 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"

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Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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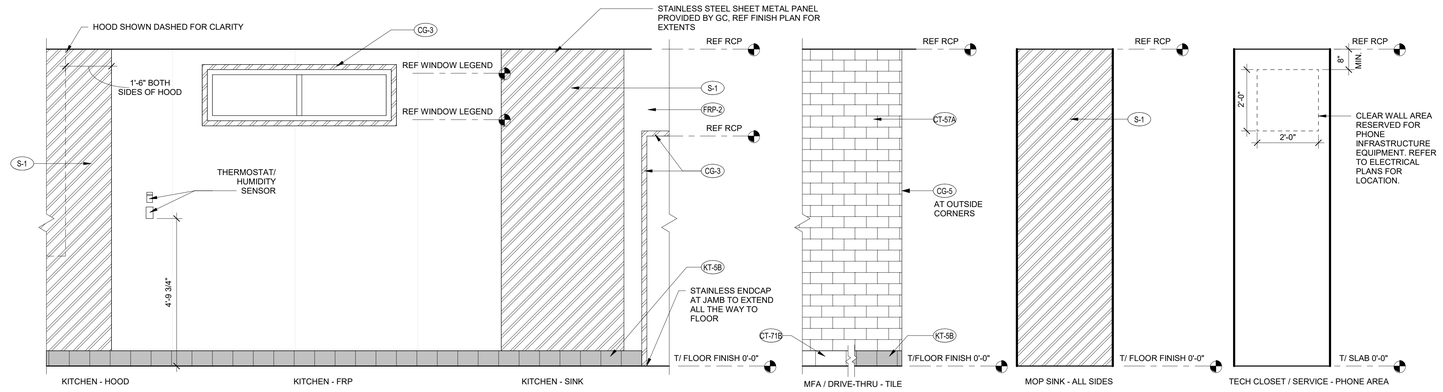
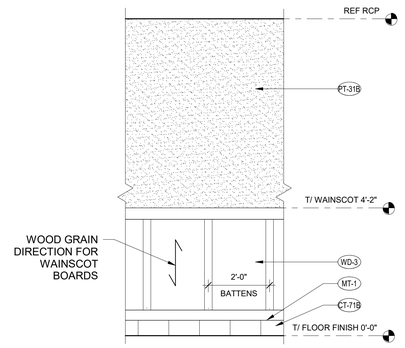
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-602



KITCHEN STANDARD ELEVATIONS



TEAM ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

A.1 REFER TO E3 / A-624 FOR WAINSCOT DETAILS.
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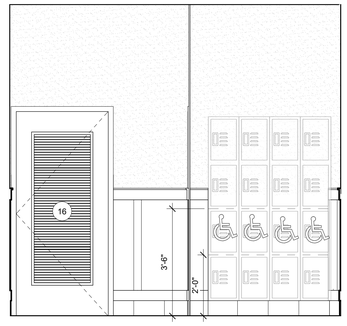
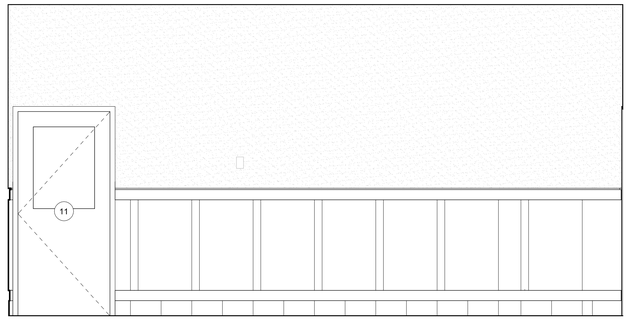
A.9 REFER TO E3 / A-624 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.

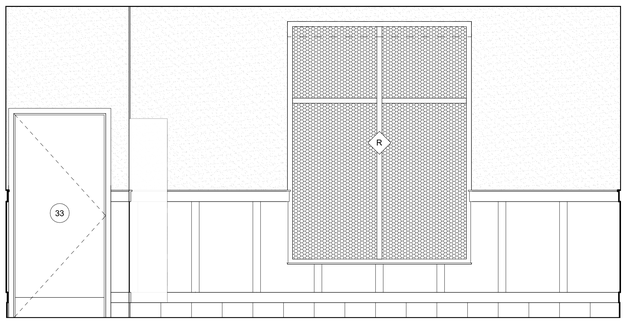
NOTE:
LOCKERS PROVIDED: 16
ACCESSIBLE REQUIRED (5%): 1
ACCESSIBLE PROVIDED: 4



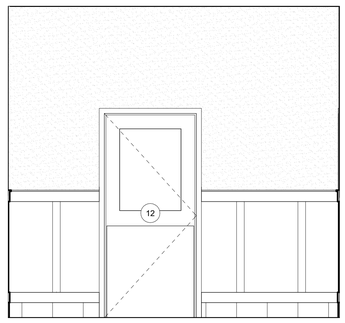
C3 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



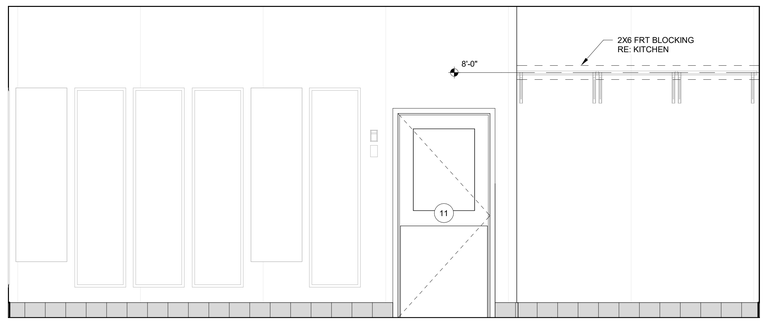
C2 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



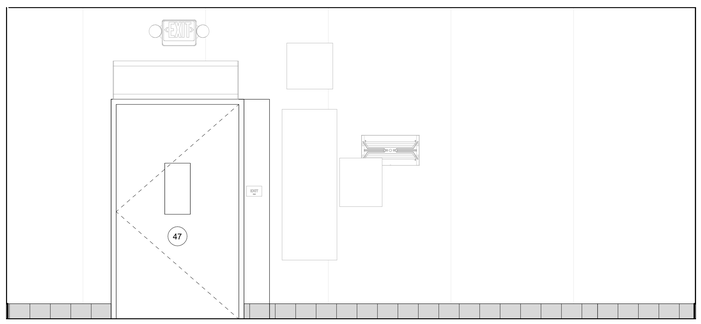
B4 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



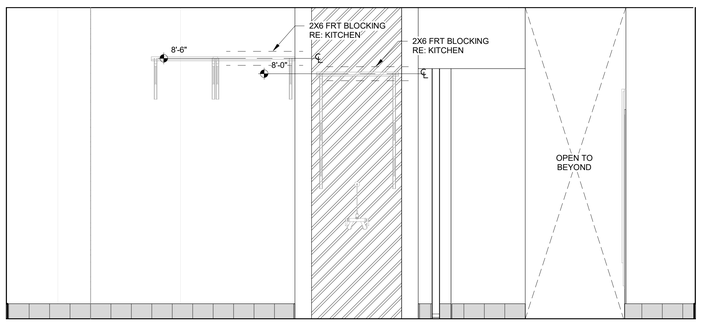
B3 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



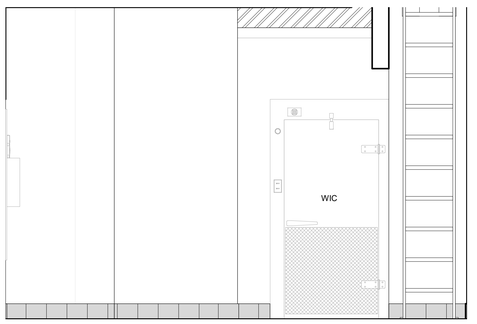
B2 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



A4 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



A3 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



A1 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
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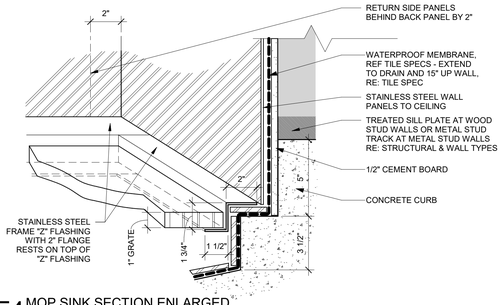
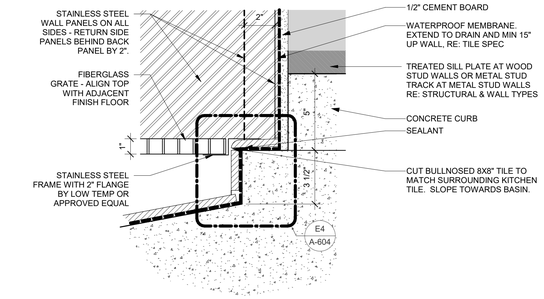
SHEET
KITCHEN ELEVATIONS AND DETAILS

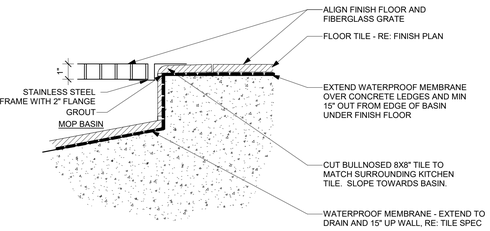
SHEET NUMBER
A-603



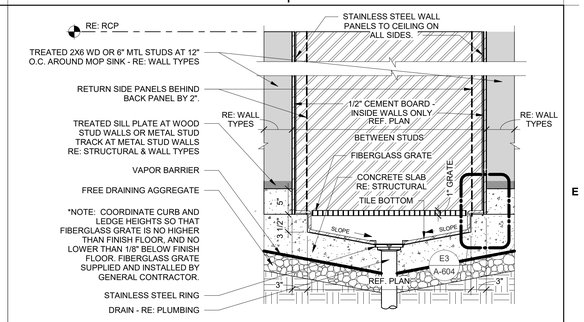
E4 MOP SINK SECTION ENLARGED
3" = 1'-0"



E3 MOP SINK SECTION ENLARGED
3" = 1'-0"

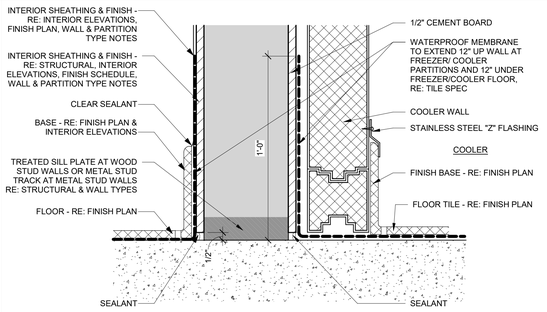


E2 MOP SINK FRONT EDGE
3" = 1'-0"

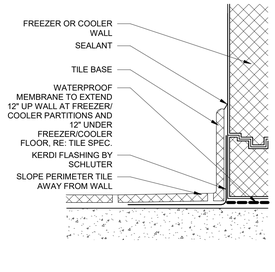


E1 MOP SINK SECTION
1" = 1'-0"

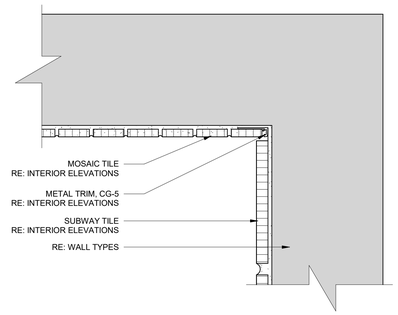
D4 DETAIL AT WALK-IN PARTITION
3" = 1'-0"



D3 DETAIL AT WALK-IN SCREED
3" = 1'-0"



D2 KERDI FLASHING DETAIL
3" = 1'-0"



D1 DETAIL PLAN AT TILE CORNER
6" = 1'-0"

C4 DETAIL AT TILE BASE
6" = 1'-0"

C3 CORNER GUARD
3" = 1'-0"

C2 DETAIL AT WALK-IN FREEZER DOOR
3" = 1'-0"

C1 END CAP DETAIL
3" = 1'-0"

B2 INTERIOR THRESHOLD @ OFFICE DOOR
3" = 1'-0"

A3 WALL BASE DETAIL @ BACK OF HOUSE.
3" = 1'-0"

A2 PIN & SLEEVE SECTION
3/4" = 1'-0"

A1 LADDER DETAILS
1" = 1'-0"

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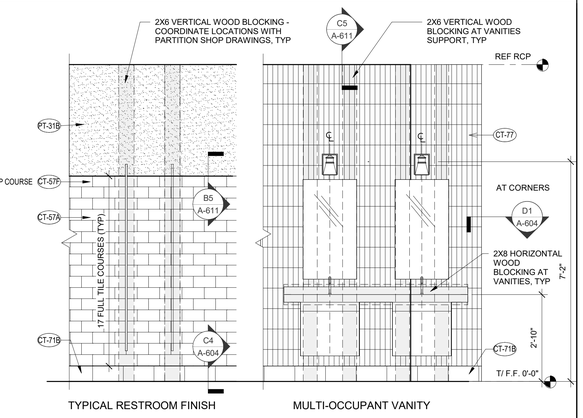
CHECKED BY JF

SHEET
KITCHEN AND INTERIOR DETAILS

SHEET NUMBER
A-604

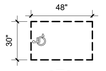


RESTROOM STANDARD ELEVATIONS

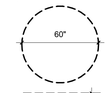
ACCESSIBILITY LEGEND

MANEUVERING CLEARANCE AT DOORS

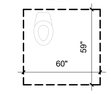
30" X 48" WHEEL CHAIR SPACE



60" TURNING RADIUS



60" X 59" CLEARANCE AT FLOOR-MOUNT WATER CLOSET



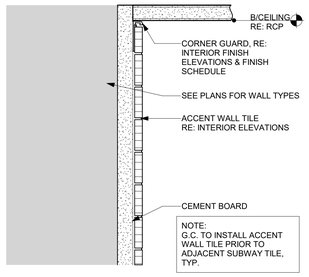
DOOR APPROACH

GENERAL RESTROOM NOTES

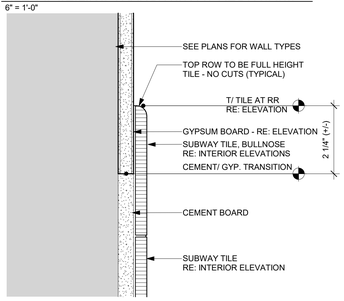
1. ALL EXPOSED UNDER COUNTER PIPING TO BE WRAPPED/INSULATED TO PREVENT CONTACT. PROVIDE AND INSTALL INSULATION AT HOT AND COLD WATER SUPPLY AND DRAIN PIPES. ENSURE THAT ALL OTHER SHARP OR ABRASIVE SURFACES ARE PROPERLY COVERED OR MADE SMOOTH.
2. UREA-FREE PHENOLIC TO MATCH PL-40 (RE: A-211 - FINISH SCHEDULE) AND TO BE FURNISHED AND INSTALLED BY GC. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
3. CEMENTITIOUS BOARD TO STOP - RE: DETAIL FOR HEIGHT OF TERMINATION OF TILE.
4. BABY CHANGING STATION - VERIFY PULL DOWN HANDLE TO BE 48" MAXIMUM. OPEN TABLE HEIGHT TO BE BETWEEN 28" - 34".
5. COORDINATE PROPER MIRROR AND VANITY BLOCKING LOCATIONS WITH VENDOR SHOP DRAWINGS. TROUGH SINK TO BE PROVIDED BY MILLWORK VENDOR.
6. REFER TO G-002 ACCESSIBILITY SHEET FOR TYP MOUNTING DIMENSIONS AND MFR DRAWINGS FOR BLOCKING LOCATIONS.
7. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
8. ALL ADA STALL DOORS TO BE SELF-CLOSING WITH PULLS ON BOTH SIDES. ALL COAT HOOKS ON STALL DOORS TO BE MOUNTED 48" AFF MAX.
9. SEE A-201 FLOOR PLAN FOR LOCATIONS OF HAND SANITIZERS AT PLAY ROOM AS APPLICABLE.

TOILET ACCESSORIES SCHEDULE

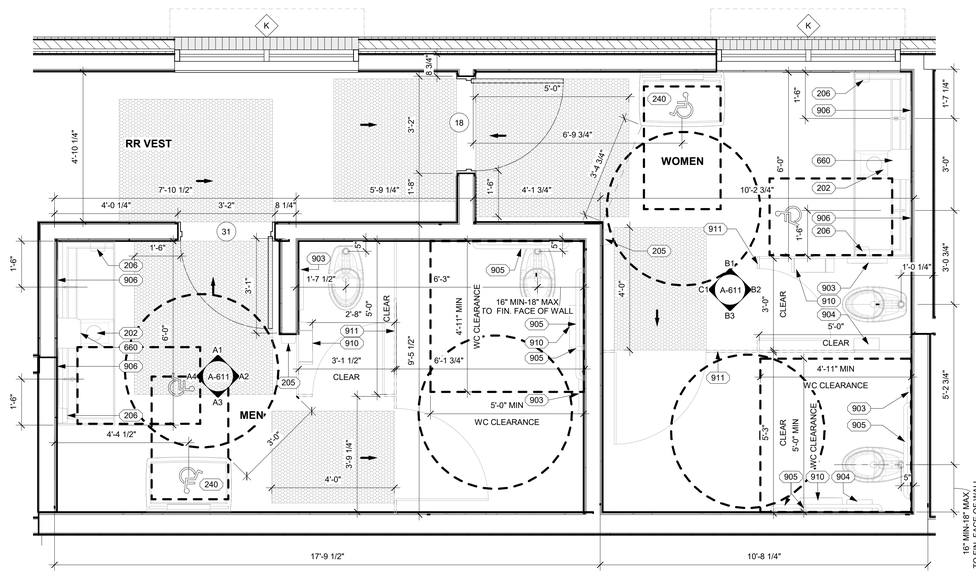
	DESCRIPTION	QTY	MANUFR	FURNISHED BY	INSTALLED BY	MODEL #
202	TRASH RECEPTACLE	2	RUBBERMAID	GENERAL CONTRACTOR	GENERAL CONTRACTOR	RE: K-SHEETS
205	HAND SANITIZER	3	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
206	SOAP DISPENSER	4	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
240	BABY CHANGING STATION	2	RUBBERMAID	OWNER	EQUIPMENT INSTALLER	FG781888
660	PAPER TOWEL DISPENSER	2	SAN JAMAR	OWNER	GENERAL CONTRACTOR	T1400REBKB
903	TOILET SEAT COVER DISPENSER	4	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	0477-SM
904	SANITARY RECEPTACLE	2	RUBBERMAID	OWNER	GENERAL CONTRACTOR	6140
905	GRAB BAR (HORIZ. & VERT.)	6	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	3801-18, 3801-36, 3801-42
906	MIRROR	4	REF NATIONAL ACCOUNTS SCHEDULE	MANUFACTURER	MANUFACTURER	REHAU MIRROR
910	TOILET PAPER DISPENSER	4	SAN JAMAR	OWNER	GENERAL CONTRACTOR	R3090REBK
911	TOILET PARTITION/URINAL SCREEN	4	REF NATIONAL ACCOUNTS SCHEDULE	GENERAL CONTRACTOR	GENERAL CONTRACTOR	SEE NOTE #2



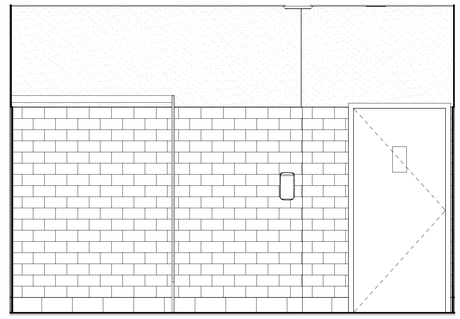
C5 TILE TO CEILING TRANSITION AT RESTROOM
6" = 1'-0"



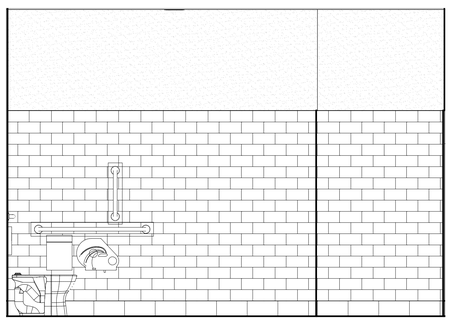
B5 TILE TO GYP TRANSITION AT RESTROOM
6" = 1'-0"



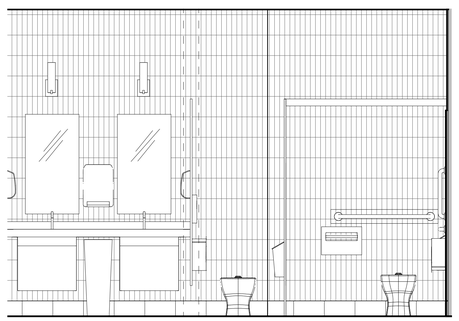
D3 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



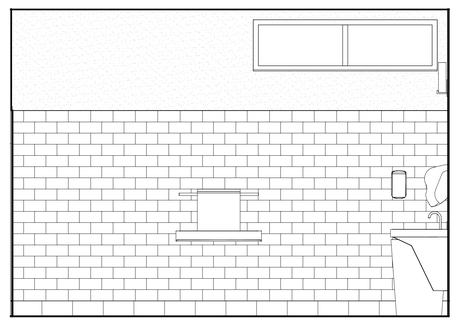
C1 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



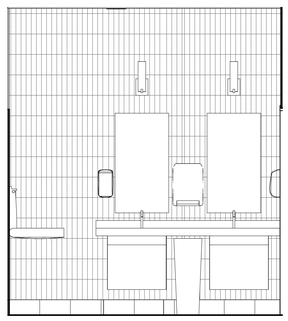
B3 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



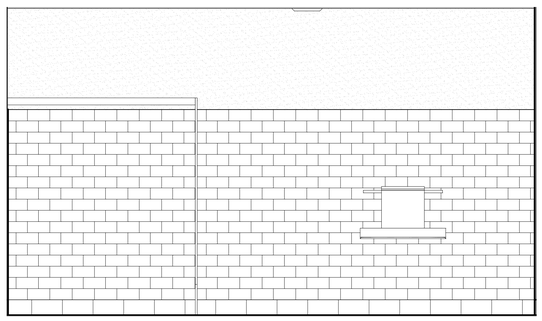
B2 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



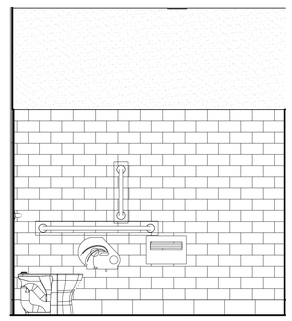
B1 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



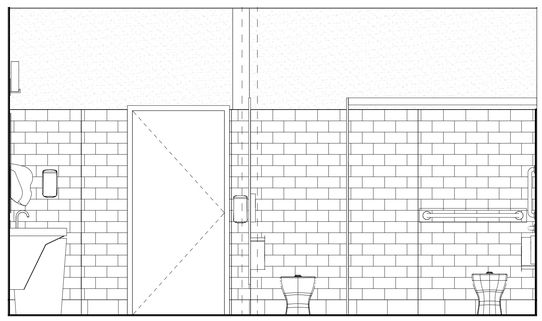
A4 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



A3 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



A2 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



A1 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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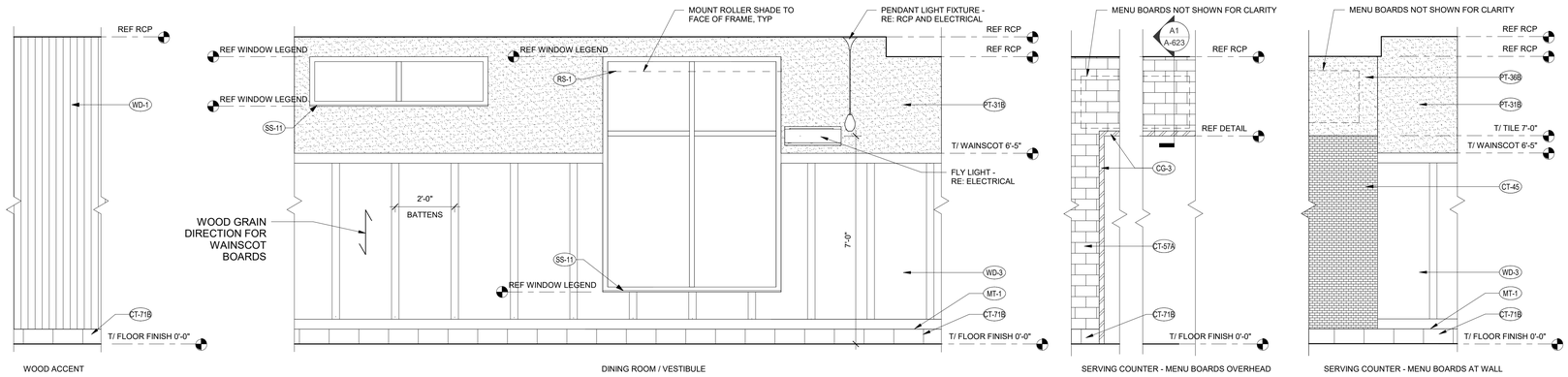
ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	ZJ
CHECKED BY	JF

SHEET
RESTROOM PLAN AND ELEVATIONS

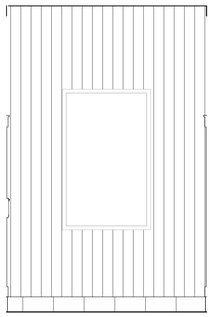
SHEET NUMBER
A-611



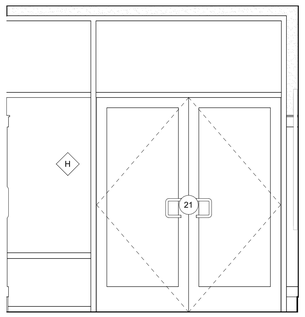
DINING ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

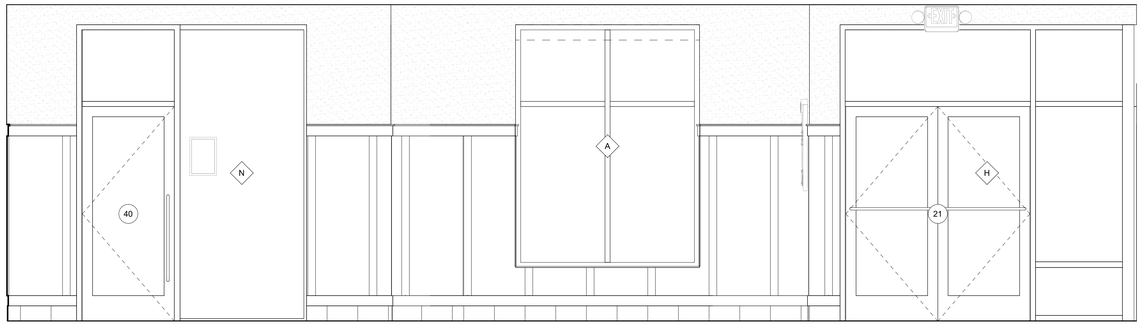
A.1 REFER TO E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO -/--- FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-624 FOR DETAIL.
A.9 REFER TO E3 / A-624 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



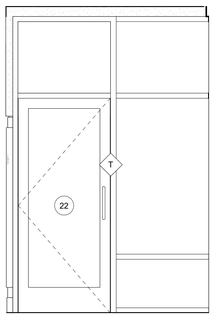
C4 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



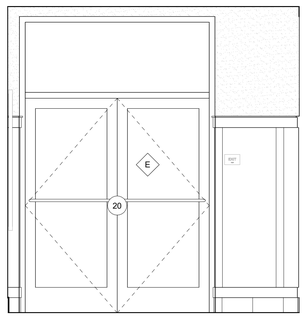
C3 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



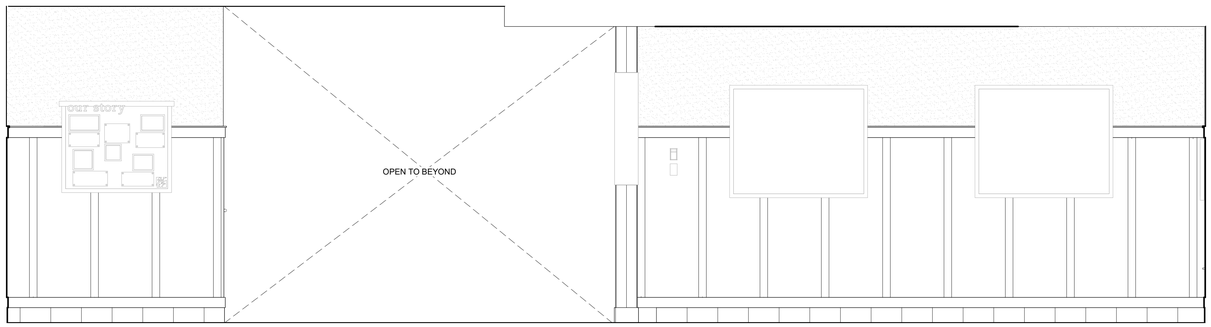
C2 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



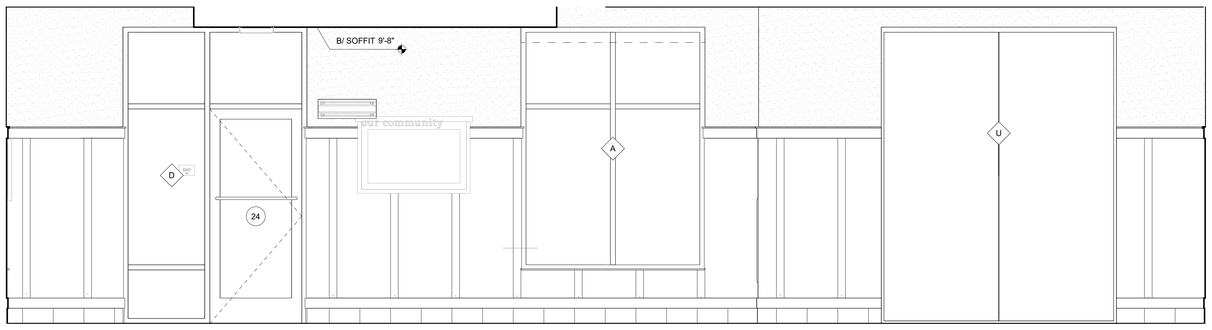
B4 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



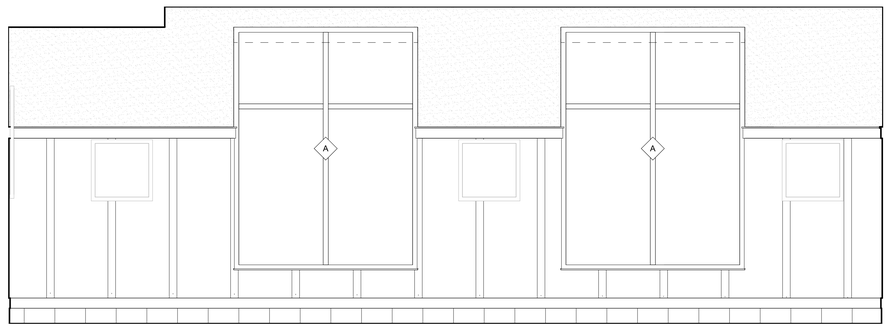
B3 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



B2 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



A4 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



A2 INTERIOR ELEVATION - DINING
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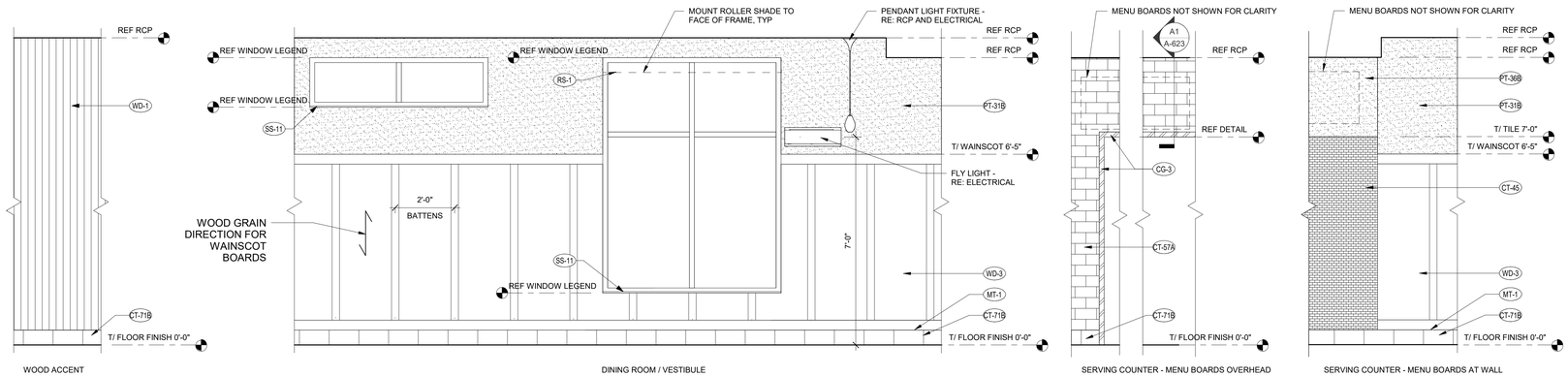
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-621



WOOD ACCENT | DINING ROOM / VESTIBULE | SERVING COUNTER - MENU BOARDS OVERHEAD | SERVING COUNTER - MENU BOARDS AT WALL

DINING ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

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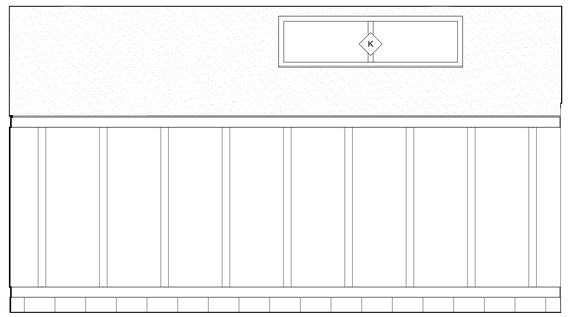
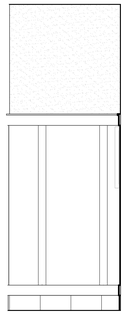
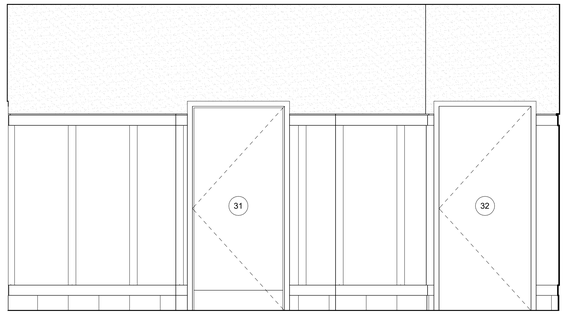
A.9 REFER TO E3 / A-624 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



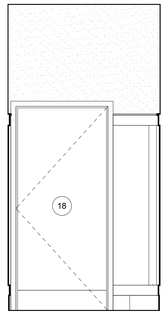
C1 ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



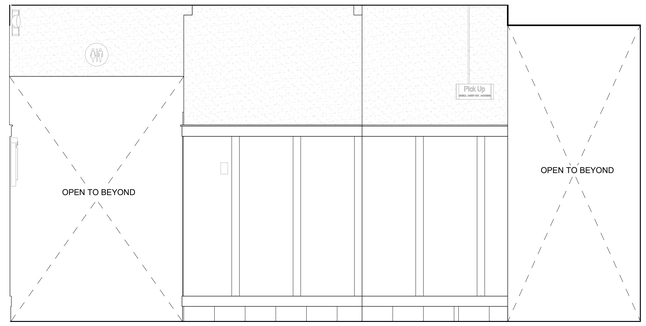
B4 INTERIOR ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



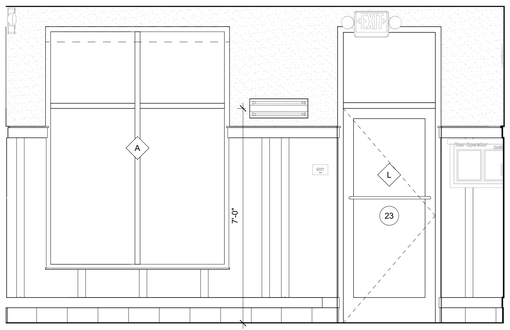
B3 INTERIOR ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



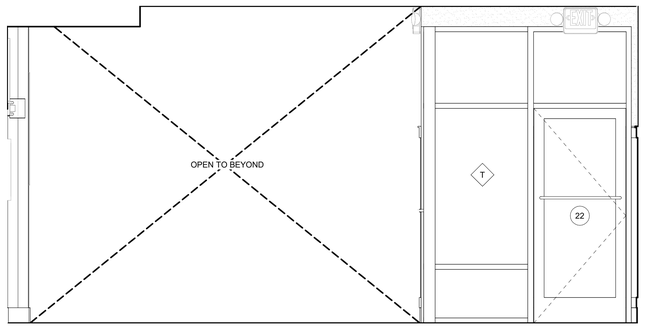
B2 INTERIOR ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



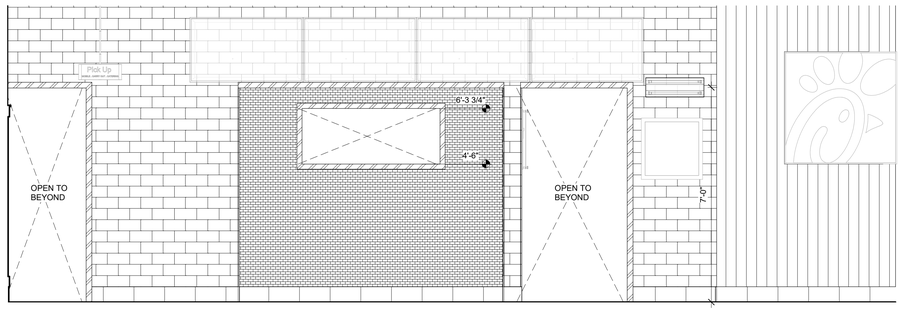
B1 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



A4 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



A3 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



A2 INTERIOR ELEVATION - DINING
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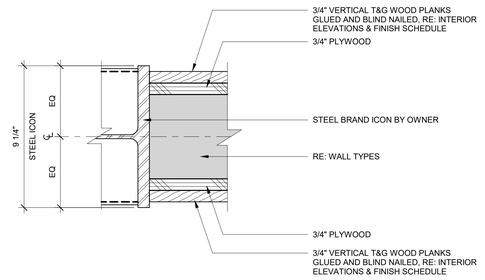
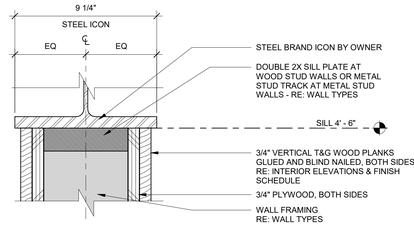
SHEET DINING ELEVATIONS AND DETAILS

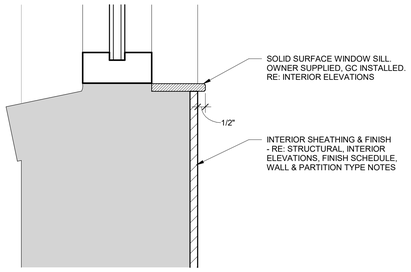
SHEET NUMBER **A-622**



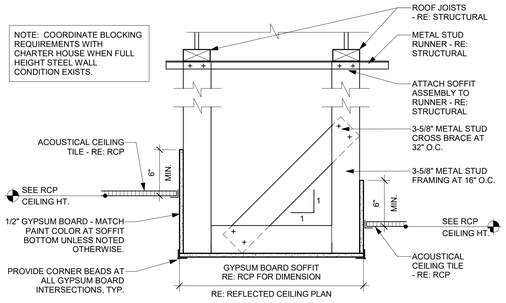
E2 BRAND ICON TWO-SIDED JAMB AT WOOD FINISH
3" = 1'-0"



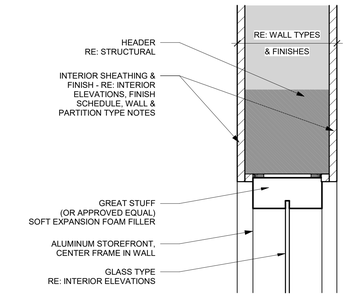
E1 BRAND ICON TWO-SIDED SILL AT WOOD FINISH
3" = 1'-0"



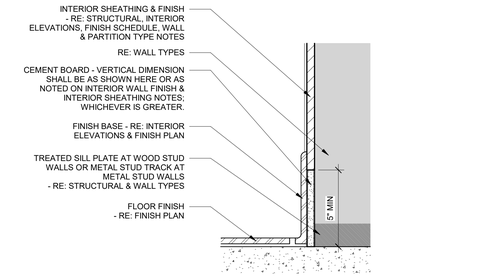
D1 TYP WINDOW SILL DETAIL
3" = 1'-0"



C3 TYP DINING SOFFIT
1 1/2" = 1'-0"

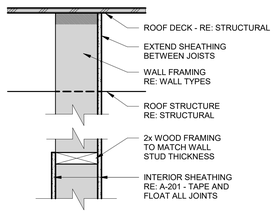


C2 TYP INTERIOR STOREFRONT HEAD
3" = 1'-0"

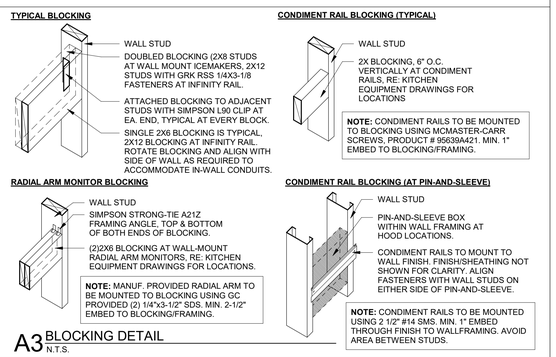


NOTE: TYPICAL AT ALL CUSTOMER ACCESSIBLE AREAS EXCEPT PLAY AREA.

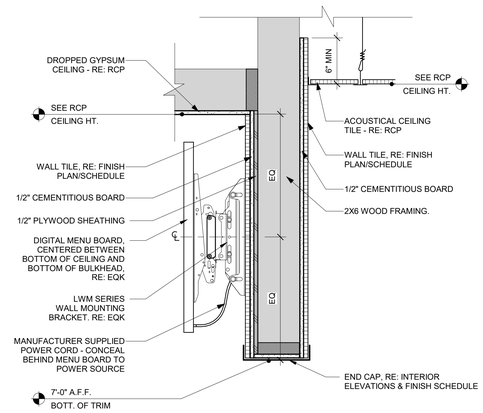
C1 WALL BASE DETAIL
3" = 1'-0"



B3 DRAFTSTOPPING DETAIL
1 1/2" = 1'-0"



A3 BLOCKING DETAIL
N.T.S.



A1 MENU BOARD DETAIL - OVERHEAD
1 1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

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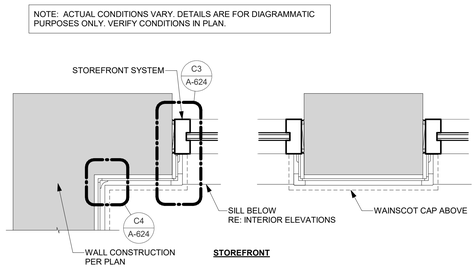
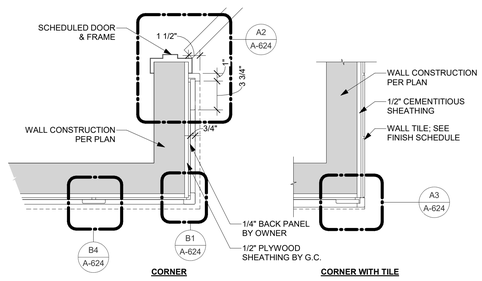
CHECKED BY	JF

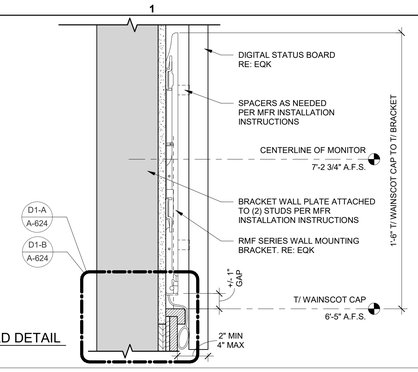
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-623

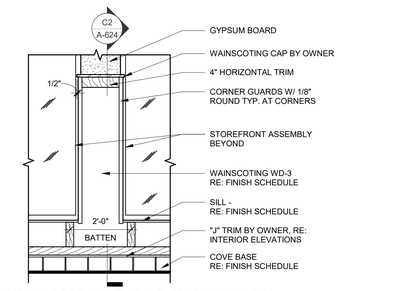




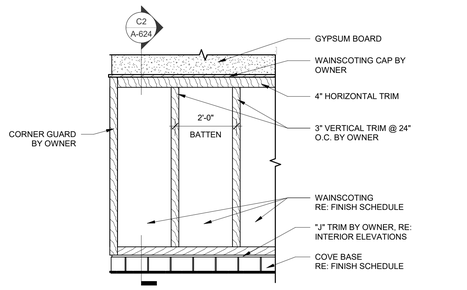
E3 WAINSCOTING PLAN DIAGRAM (FOR SCHEMATIC ONLY)
1 1/2" = 1'-0"



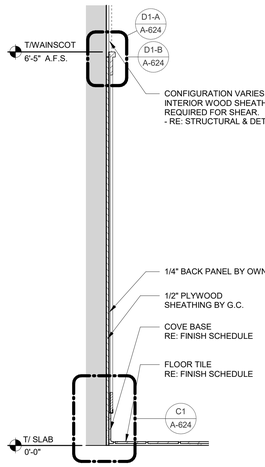
E1 STATUS BOARD DETAIL
3" = 1'-0"



D4 TYP WAINSCOTING ELEVATION AT WINDOW
1/2" = 1'-0"



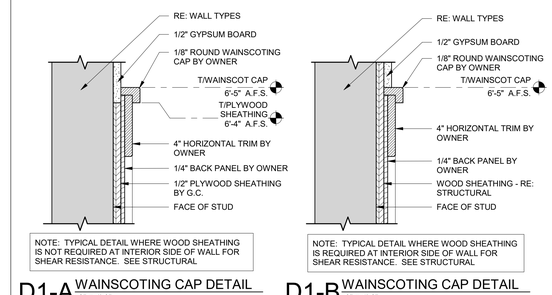
D3 TYP WAINSCOTING ELEVATION
1/2" = 1'-0"



NOTE: WAINSCOTING MATERIAL BY CFX. G.C. TO ORDER FROM CFX & INSTALL:

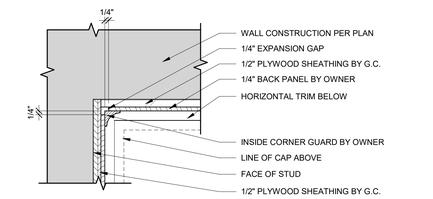
1. UREA-FREE 1/4" PLYWOOD (WHITE OAK, PLAIN CUT W/ MDF CORE)
2. SOLID STOCK TO BE WHITE OAK (STAINED GRIFFIN LIGHT W/ GLAZE)
3. APPLY LOW-VOC SEALER TO BACK SIDE (STUD SIDE) OF PLYWOOD SUBSTRATE - FULL HEIGHT. USE SEALER TYPE SHERWIN WILLIAMS HI-SOLIDS POLYURETHANE B65-W300 OR EQUAL.

C2 WALL SECTION AT WAINSCOTING
1" = 1'-0"

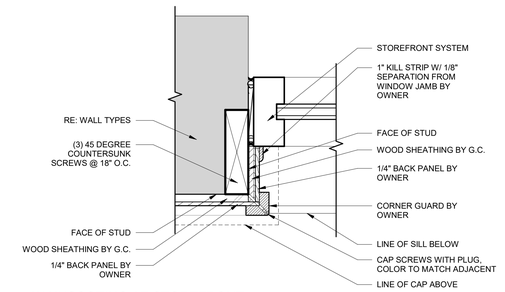


D1-A WAINSCOTING CAP DETAIL
3" = 1'-0"

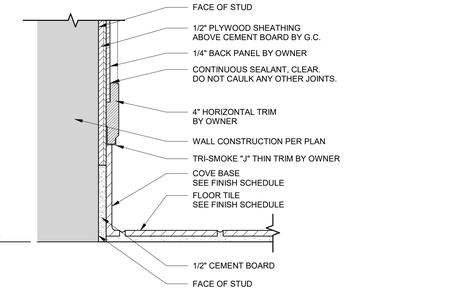
D1-B WAINSCOTING CAP DETAIL
3" = 1'-0"



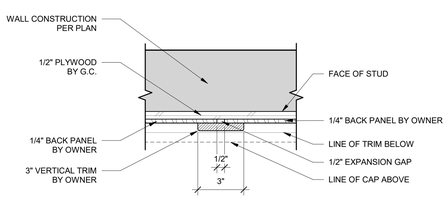
C4 WAINSCOTING INSIDE CORNER DETAIL
3" = 1'-0"



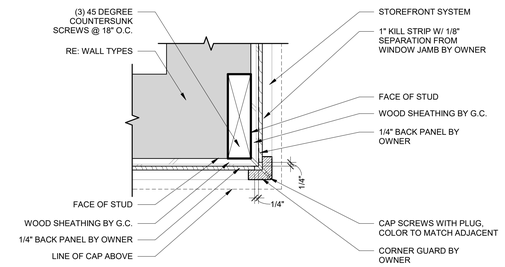
C3 WAINSCOTING AT STOREFRONT
3" = 1'-0"



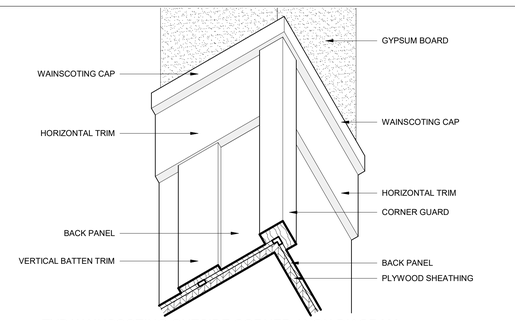
C1 WAINSCOTING BASE DETAIL
3" = 1'-0"



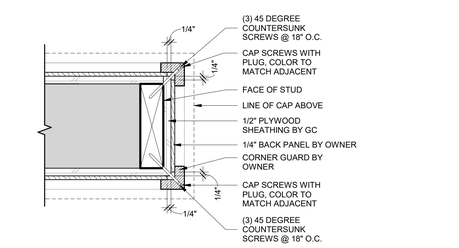
B4 WAINSCOTING TRIM DETAIL
3" = 1'-0"



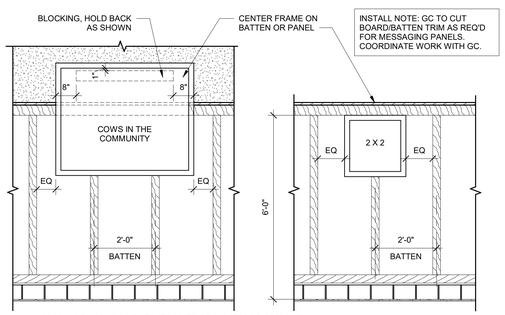
B3 WAINSCOTING OUTSIDE CORNER DETAIL
3" = 1'-0"



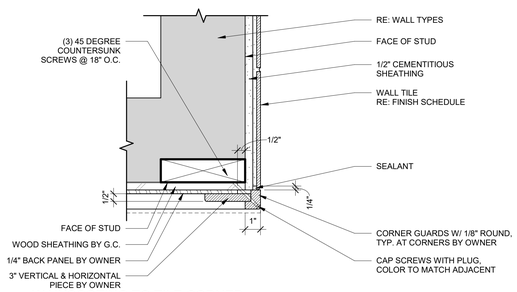
B2 TYP WAINSCOTING OUTSIDE CORNER AXON DIAGRAM
N.T.S.



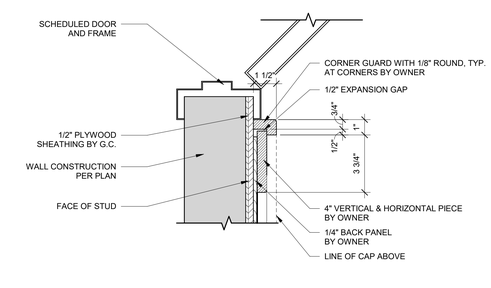
B1 WAINSCOTING OUTSIDE CORNER WRAP DETAIL
3" = 1'-0"



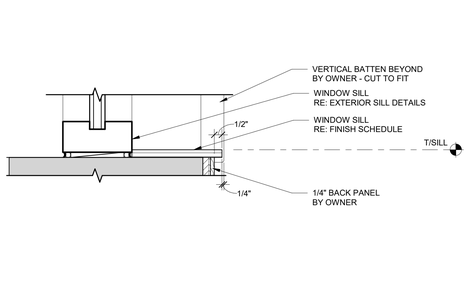
A4 WAINSCOTING ELEVATION AT SIGNAGE
1/2" = 1'-0"



A3 WAINSCOTING TO TILE CORNER
3" = 1'-0"



A2 WAINSCOTING AT DOOR JAMB
3" = 1'-0"



A1 WAINSCOTING AT WINDOW SILL
3" = 1'-0"

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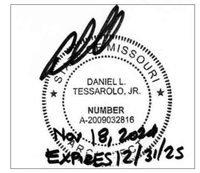

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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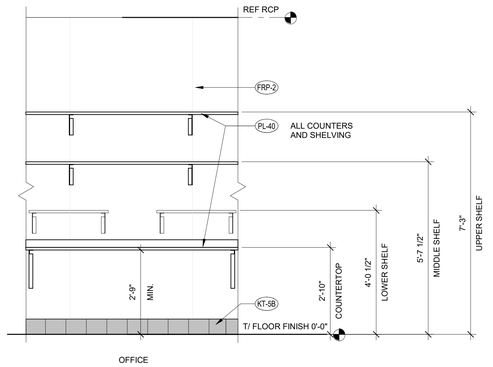
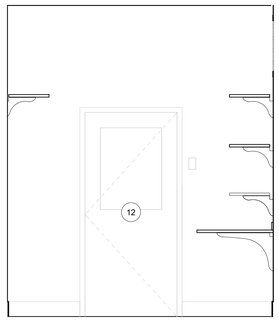
CHECKED BY	JF

SHEET
DINING ELEVATIONS AND DETAILS

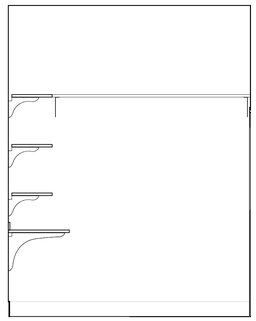
SHEET NUMBER
A-624



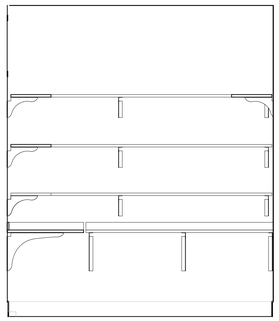
OFFICE ROOM STANDARD ELEVATION



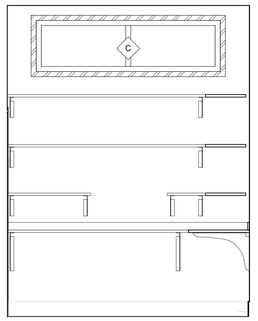
E5 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



E4 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



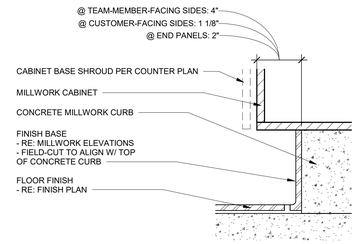
E3 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



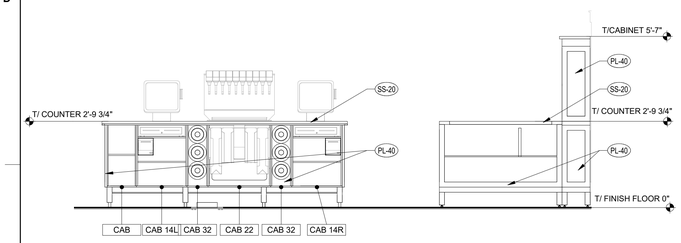
E2 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"

MILLWORK GENERAL NOTES

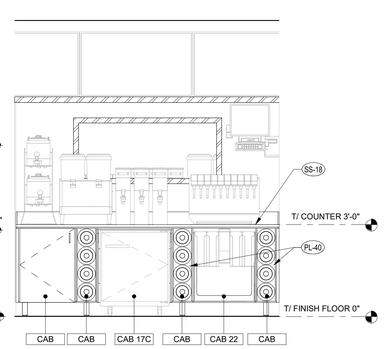
A.1 GC TO CONFIRM ALL INFORMATION ON THIS SHEET W/ MILLWORK VENDOR SHOP DRAWINGS.
A.2 REFER TO PLUMBING, ELECTRICAL, AND KITCHEN DRAWINGS FOR ROUGH-IN, RECEPTACLE, AND EQUIPMENT INFORMATION
A.3 SEAL ALL COUNTER/CABINET EDGES THAT ALIGN AGAINST ADJACENT WALLS
A.4 ALL SIDE AND BACK SPLASHES TO BE INTEGRAL
A.5 ALL MILLWORK CABINETS ARE ON LEGS UNLESS SHOWN ON CURB. REFER TO MILLWORK CURB PLAN.



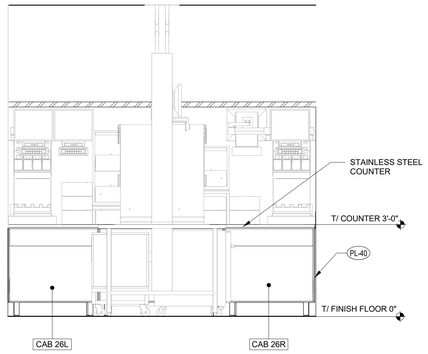
E1 TYP CURB DETAIL
3" = 1'-0"



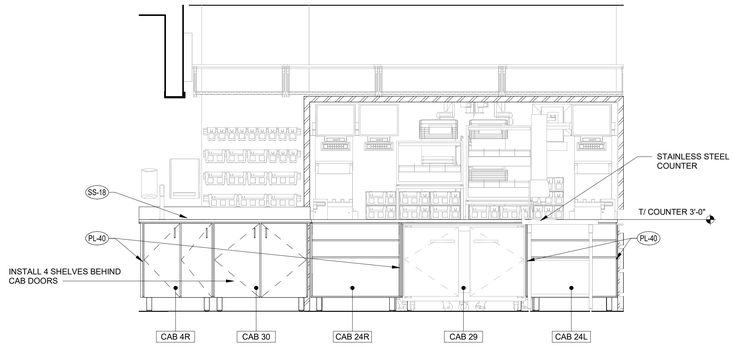
D4 MILLWORK ELEVATION
1/2" = 1'-0"



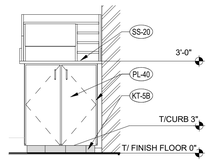
D3 MILLWORK ELEVATION
1/2" = 1'-0"



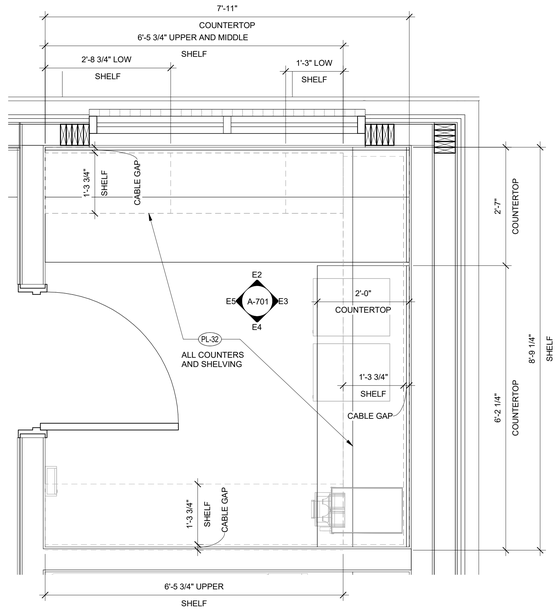
D2 MILLWORK ELEVATION
1/2" = 1'-0"



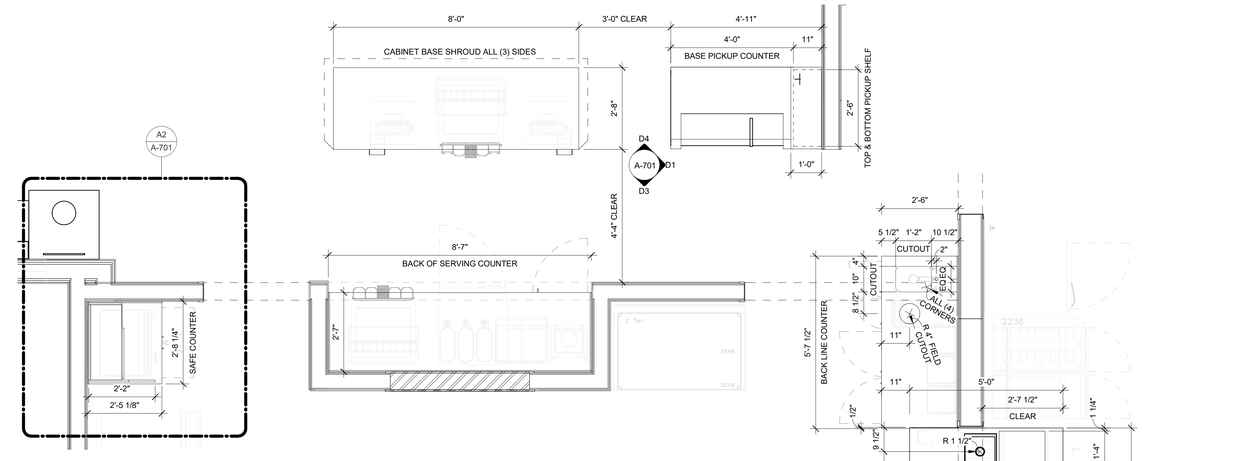
D1 MILLWORK ELEVATION
1/2" = 1'-0"



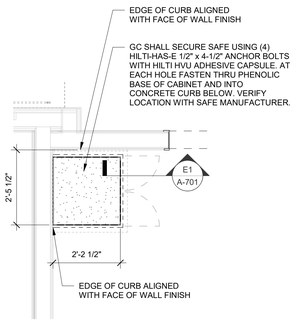
C4 MILLWORK ELEVATION
1/2" = 1'-0"



A4 OFFICE MILLWORK PLAN
3/4" = 1'-0"



B2 MILLWORK COUNTER PLAN
1/2" = 1'-0"



MILLWORK CURB LEGEND
NOTE: CURB HEIGHT AS MEASURED FROM FINISH FLOOR. GC TO FIELD COORDINATE HEIGHT FROM SLAB ELEVATION.
3" CURB
EDGE OF CURB
EDGE OF CABINET
EDGE OF COUNTER

NOTE:
GC TO VERIFY DIMENSIONS WITH VENDOR MILLWORK SHOP DRAWINGS PRIOR TO POURING CURBS.

A2 MILLWORK CURB PLAN
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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CHECKED BY JF

SHEET
MILLWORK PLANS AND ELEVATIONS

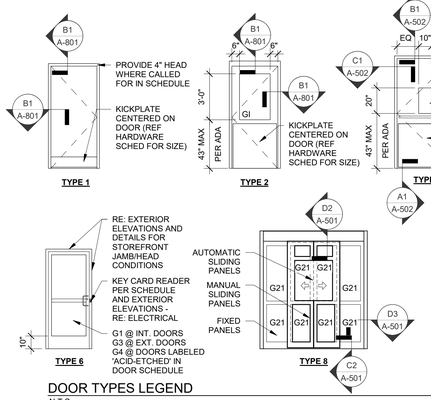
SHEET NUMBER
A-701

DOOR HARDWARE SCHEDULE

SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
SET #01 - ENTRY (PAIR)						
YKK OR KAWNEER	2	PANIC PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1 SET	EXIT DEVICE	FIRST CHOICE	MEL-3690	DOM/FALCON	MEL1690-EL
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#60-42
YKK OR KAWNEER	2	CLOSER	YKK	H6104	LCN	4041 SMC
YKK OR KAWNEER	2	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037869
YKK OR KAWNEER	2	DOOR SWEEP	YKK	H7107	KAWNEER	200798
SET #02 - VESTIBULE (SINGLE)						
YKK OR KAWNEER	1	PUSH / PULL	YKK	H-1141-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1 SET	O/S PIVOTS	YKK	#H2101H/H2102LH	KAWNEER	050322, 050326 (RH)
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #04 - PLAYROOM						
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	4040	LCN CLOSERS	4040
YKK OR KAWNEER	1	TOE GUARD	NATIONAL GUARD	14RDXB - 1 3/4	NATIONAL GUARD	I4RRGB X 36"
YKK OR KAWNEER	1	DOOR PUSH	ROCKWOOD	TBF159	BURNS	422
YKK OR KAWNEER	1	DOOR PULL	ROCKWOOD	T118BTB	BURNS	39SP
YKK OR KAWNEER	1	FINGER GUARD	DORMAKABA	H7104	KAWNEER	038365
YKK OR KAWNEER	1	HINGE	HAGER	780-113HD	SELECT	SL71
SET #05 - DINING EXIT-ONLY (SINGLE)						
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #06 - VESTIBULE (PAIR)						
YKK OR KAWNEER	2	DOOR PUSH / PULL	YKK	H-1141-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	2	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	2 SETS	O/S PIVOTS	YKK	H2101RH/ H2102LH	KAWNEER	050322, 050323, 035506
YKK OR KAWNEER	2	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #08 - MULTIPURPOSE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2314 4-1/2" X 4-1/2" (NRP) US32D		
LOCKNET OR DH PACE	1	KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE (BACK OF HOUSE)	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	KICK PLATE (WHEN FACING DINING AREAS)	ROCKWOOD	K1050 8"h X 36"w US32D 4BE		
LOCKNET OR DH PACE	1	WEATHER STRIPPING	PEMKO	S88 D17		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
SET #09 - OFFICE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE		KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
SET #11 - KITCHEN						
ELIASON	2	DOOR PULL	HAGER COMPANIES	6" ALLUM (US32D) MODEL 3E		
SET #13 - EXTERIOR STORAGE						
LOCKNET OR DH PACE	1	PIANO HINGE	PEMKO	CMF83 HD X ALUM.X TEK		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28-1160-10G04 LL US26D MK		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	171A		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315CN (TKSP8)		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS (TKSP8)		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	346C (TKSP8)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE or K1050 36"h X 38"w US32D 4BE		
SET #17 - CLOSET (SINGLE)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB79 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D		
SET #18 - RESTROOM (MULTI-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	PUSH PLATE	ROCKWOOD	70E US32DMS		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	SILENCERS	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	TRIMCO PULL BAR (IF DOOR SWINGS INSIDE RR)	TRIMCO	PART 1135 BRUSHED STAINLESS		
LOCKNET OR DH PACE	1	PULL PLATE (IF DOOR SWINGS OUTSIDE RR)	ROCKWOOD	BF110 X 70C US32DMS TYPE 1		
SET #20 - RESTROOM (SINGLE-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	LOCKSET	DORMA	M9048 LRB PRIVACY X WITH DUAL INDICATORS 626		
SET #21 - ENTRY (KEYCARD)						
YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
YKK OR KAWNEER	1	ELECTRIC STRIKE	HES	9400	HES	7089
SET #22 - EXTERIOR STORAGE (FLORIDA)						
LOCKNET OR DH PACE	1	PIANO HINGE	MCKINNEY	MCK-12HD 83" CLEAR FMK-CL		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	60-LB-8251-LL-US26D STORM MORTISE LOCK W/ DBOLT		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	2005AT 40" THRESHOLD		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315 CN 40" NEOPRENE		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS-42" X 84"		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	40" (346C40)		
LOCKNET OR DH PACE	1	CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	LOUVER	PEMKO	LV-WSG 12" X 12" WINDSTORM RATED		
SET #23 - TECH CLOSET						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB68 5" x 4 1/2" US26D NRP		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-7G04 LL US26D		
LOCKNET OR DH PACE	1	ELECTRIC STRIKE	HES	7000C-12VDC-630- 2005M3		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	409 US32D		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608-RKW		
LOCKNET OR DH PACE	1	DOOR POSITION SWITCH	SECURITRON	DPS-W-Black		
SET #24 - CLOSET (DOUBLE)						
LOCKNET OR DH PACE	6	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	2	FLUSH BOLT	ROCKWOOD	555 US26D		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN - LHR		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN - RHR		
LOCKNET OR DH PACE	2	KICK PLATE (IF 5'-0" DOOR)	ROCKWOOD	K1050 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	2	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	2	KICK PLATE (IF 6'-0" DOOR)	ROCKWOOD	K1050 8"h X 34"w US32D BEV		

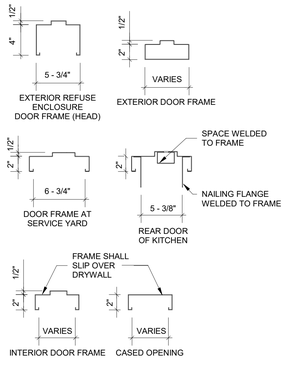
DOOR SCHEDULE

DOOR NUMBER	DESCRIPTION	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR SIZE THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	HARDWARE	FRAME MATERIAL	FRAME FINISH	REMARKS
11	TEAM MEMBER	6'-8"	3'-0"	1 5/8"	2	S.C. WOOD	PL-40	SET #25	KNOCK-DOWN HOLLOW METAL	PT-35	PROVIDE KICK PLATE. PROVIDE HOLD-OPEN ON CLOSER.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
12	OFFICE	6'-8"	3'-0"	1 3/4"	2	INSULATED METAL	PT-35	SET #09	KNOCK-DOWN HOLLOW METAL	PT-35	PROVIDE KICK PLATE ON KITCHEN SIDE. PROVIDE HOLD-OPEN ON CLOSER. PROVIDE KEYPAD.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
14	DRIVE THRU	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W ACID-ETCHED GLASS	DARK BRONZE	SET #21	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEADJAMB DETAILS. PROVIDE KEYPAD.
15	DRIVE THRU SLIDING	7'-8"	7'-0"	8"	8	SEE TORMAX SHOP DWGS	SEE TORMAX SHOP DWGS	(none)	SEE TORMAX SHOP DWGS	SEE TORMAX SHOP DWGS	(none)
16	TECH CLOSET	6'-8"	3'-0"	1 5/8"	9	INSULATED METAL	PT-35	SET #23	KNOCK-DOWN HOLLOW METAL	PT-35	PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
17	UTILITY	7'-0"	3'-0"	1 3/4"	1	INSULATED METAL	PAINT TO MATCH ADJACENT BRICK	SET #13	HELLOW METAL (GALVANIZED)	PAINT TO MATCH ADJACENT BRICK	(none)
18	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	KNOCK-DOWN HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
20	ENTRY (PAIR)	7'-0"	6'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #01	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
21	VESTIBULE (PAIR)	7'-0"	6'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #06	ALUMINUM	DARK BRONZE	NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
22	VESTIBULE	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #02	ALUMINUM	DARK BRONZE	NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
23	DINING EXIT	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #03	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
24	DINING EXIT	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #03	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
31	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	KNOCK-DOWN HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
32	RESTROOM	6'-8"	3'-0"	1 3/4"	1	S.C. WOOD	PL-40	SET #17	KNOCK-DOWN HOLLOW METAL	PL-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
33	STORAGE	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #25	KNOCK-DOWN HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE 1/8" ON ALL THREE SIDES TO PLUMB AND SQUARE.
40	PLAY AREA	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #04	ALUMINUM	DARK BRONZE	UNDERCUT DOOR 2" FOR TOE GUARD. NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
47	LOADING	7'-0"	4'-0"	1 3/4"	3	SEE ZIGMAN PRODUCTS PACKAGE	SEE ZIGMAN PRODUCTS PACKAGE	(none)	SEE ZIGMAN PRODUCTS PACKAGE	PT-113	CONTACT ZIGMAN PRODUCTS CO FOR COMPLETE FRP DOOR ASSEMBLY PACKAGE. (888)-584-1303. PANIC HARDWARE ON INSIDE AND KEY ACCESS ON OUTSIDE. PROVIDE 34" x 44" KICK PLATE ON KITCHEN SIDE. PROVIDE 34" x 46" KICK PLATE ON SERVICE YARD SIDE. PROVIDE ELECTRONIC STRIKE. SIMILAR THRESHOLD AS STOREFRONT DOORS.
50	TRASH ENCLOSURE	7'-0"	3'-4"	1 3/4"	5	INSULATED METAL	PT-113	SET #13	HOLLOW METAL	PT-113	LOCATED IN STORAGE ROOM AT REFUSE ENCLOSURE, PROVIDE 4" HEAD FRAME.

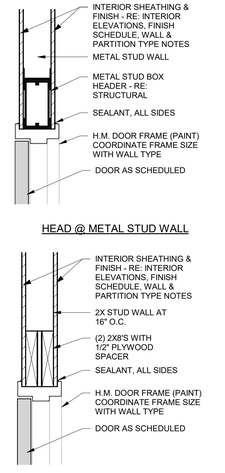


DOOR TYPES LEGEND
N.T.S.

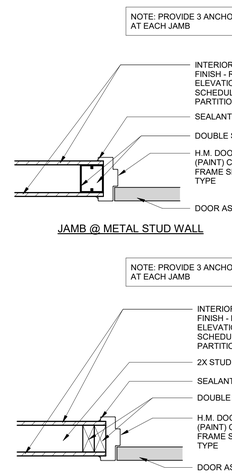
NOTES
1. ALL CONSTRUCTION AND FINAL CORES ARE TO BE ORDERED BY G.C. FROM THE DOOR/HARDWARE PROVIDER AS INDICATED IN THE NATIONAL ACCOUNTS SHEET.
2. ALL DOOR AND HARDWARE PURCHASED BY G.C. THROUGH SUPPLIERS AS INDICATED ABOVE.
3. CLOSERS TO BE ADJUSTED TO COMPLY WITH ADA OPERATING FORCE REQUIREMENTS OF 5 LBS MAX FOR ALL ADA & ANSI HINGED DOORS, INTERIOR DOORS HINGED WITH CLOSER. ENSURE DOOR TAKES 5 SECONDS MIN TO GO FROM 90 DEGREES TO 12 DEGREES FROM LATCH.
4. *NOT USED*
5. *NOT USED*
6. FOR WEATHERSTRIPPING, DRIP CAP, AND THRESHOLD SPECS NOTED ABOVE COORDINATE EXACT MODEL NUMBER WITH SIZE OF OPENING.
7. DRIP CAP REQUIRED AT ALL EXTERIOR DOORS, EXCLUDING ELECTRICAL ROOM, U.N.O.
8. NO SILENCERS REQUIRED AT EXTERIOR TRASH STORAGE ROOM DOOR.



HOLLOW METAL FRAME PROFILES
N.T.S.



HEAD @ METAL STUD WALL



JAMB @ METAL STUD WALL

HEAD @ WOOD STUD WALL

JAMB @ WOOD STUD WALL

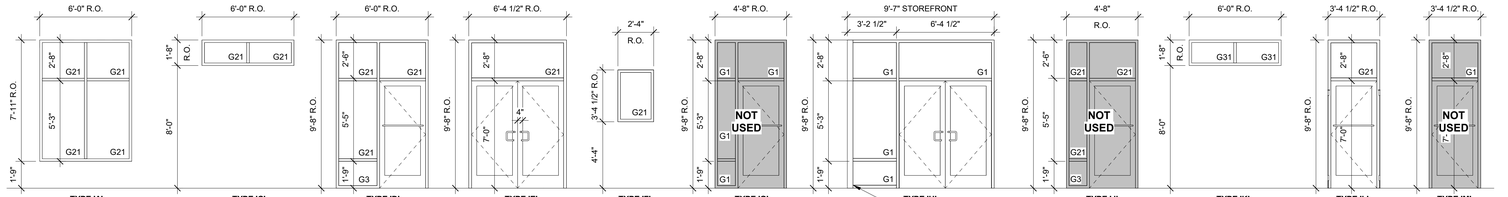
NOTE: REFER TO WALL TYPES FOR WALL THICKNESS, INTERIOR ELEVATIONS AND FINISH PLAN FOR WALL FINISHES, AND DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

B1 INTERIOR HOLLOW METAL FRAME HEADS & JAMBS
N.T.S.

DOOR HARDWARE SCHEDULE

SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
SET #25 - TEAM MEMBER						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB79 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	PASSAGE SET	SARGENT	28-10U15 LL 26D		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
SET #26 - DRIVE-THRU LANE						
YKK OR KAWNEER	1	LATCH LOCK	ADAMS RITE	4510	ADAMS RITE	4510
YKK OR KAWNEER	1	MORTISE CYLINDER	SARGENT	P38373 (335)	SARGENT	#63-34
YKK OR KAWNEER	1	ELECTRIC STRIKE	ADAMS RITE	7130	ADAMS RITE	7130
YKK OR KAWNEER	1	LEVER	ADAMS RITE	4560	ADAMS RITE	4560
YKK OR KAWNEER	1	PUSH BAR	YKK	H-1204	KAWNEER	CP-II
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	4040	LCN CLOSERS	4040
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #27 - RESTROOM (DRIVE-THRU-ONLY)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	V20-LB-60-8251 x LNL US26D		
LOCKNET OR DH PACE	1	ELECTRIC STRIKE	HES	1006CS FSE 12/24DC 630		

- NOT USED



WINDOW TYPES LEGEND
N.T.S.

NOTES:
1. STOREFRONT FRAMING FINISH (ST-1) TYP - REF. EXTERIOR FINISH SCHEDULE
2. REF INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR WINDOW SILL FINISHES
3. REF DOOR SCHEDULE AND TYPES FOR STOREFRONT DOOR INFORMATION

GLAZING SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
G1	1/4"	TEMPERED	CLEAR	
G3	1/8" (2)	LAMINATED	CLEAR	DUAL LAYER
G4	1/8" (2)	LAMINATED	ACID ETCHED	DUAL LAYER
G11	1/2"	TEMPERED	CLEAR	BUTT GLAZE
G21	1"	TEMPERED	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS
G31	1"	TEMPERED	ACID ETCHED - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS
G41	1"	TEMPERED SPANDREL	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS SPANDREL FILM ON INSIDE FACE
G51	1"	TEMPERED	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS PROVIDE ONE-WAY FILM ON INSIDE FACE

NOTES:
1. PROTOTYPICAL STOREFRONT SYSTEM (MULLIONS & GLAZING COMBINED) U-FACTOR: 0.38, SHGC: 0.25, VT 0.54 (CLEAR GLASS - TINTED GLASS WILL NOT BE ACCEPTED)

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
DOOR AND WINDOW LEGENDS

SHEET NUMBER
A-801

TABLE OF CONTENTS

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Project information.
2. Work under separate contracts.
3. Geotechnical data.
4. Permit application information.
5. Purchase contracts.
6. Owner furnished products.
7. Access to site.
8. Work restrictions.
9. Specification and Drawing conventions.

1.2 PROJECT INFORMATION
A. Project Identification: 05248 - Oldham Village FSU
1. Project Location: SW Corner Hwy 50 & MO State Rte 291 Lee's Summit, MO 64081
B. Owner: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349-2998.
C. Architect: Chipman Design Architecture Inc., 1350 E Touhy Ave, First Floor East, Des Plaines, IL 60018.
1. Structural Engineer: Britt Peters & Associates, 101 Falls Park Dr. Suite 601 Greenville, SC 26601
2. Mechanical Engineer: Kurzynske & Associates, 2900 Lebanon Pike, Suite 201, Nashville, TN 37214
3. Electrical Engineer: Dickerson Engineering Inc., 3343 N. Ridge Ava, Arlington Heights, IL 60004
4. Plumbing Engineer: Kurzynske & Associates, 2900 Lebanon Pike, Suite 201, Nashville, TN 37214
D. Other Owner Consultants: Owner has retained the following design professionals who have prepared designated portions of Contract Documents:
1. Kitchen Equipment: TriMark Strategic, 3800 Camp Creek Parkway SW, Building 2400, Suite 14, Atlanta, GA 30331.
2. Millwork: Clayton Fixture Company, Inc., Box 157, Highway 42, Ellenwood, GA 30294.
3. Furniture: CHi, 200 N. Franklin Street, Zeeland, MI 49464.
4. Low Voltage: Strong Systems International, Inc., 2827 Peterson Place, NW, Norcross, GA 30071.
5. Exterior Signage: Clayton Signs, 5198 North Lake Drive, Lake City, GA 30260
E. Geotechnical Data: This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Contractor's convenience and are intended to supplement rather than serve in lieu of Contractor's own investigations. They are made available for Contractor's convenience and information, but are not a warranty of existing conditions. This Document and its attachments are not part of Contract Documents.
1. A geotechnical investigation report for Project, prepared by Cook, Flatt & Strobel Engineers dated November 12, 2024 is available for viewing at the office of Architect.
F. PERMIT APPLICATION INFORMATION
1. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Contractor's convenience and are intended to supplement rather than serve in lieu of the Contractor's own investigations. This Document and its attachments are not part of Contract Documents.
a. Permit Application: Building permit for Project has been applied for by Architect. A copy of Permit Application is available for viewing at the office of Architect.
2. Obtain and pay all permits, deposits, fees and inspection necessary for each trade's work. Contractor shall be reimbursed for all non-refundable costs.
3. Schedule all required inspections by authorities having jurisdiction in a timely manner to not delay Work.

1.3 WORK UNDER SEPARATE CONTRACTS
A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate Work of this Contract with work performed under separate contracts.
1. Refer to sheet G-004 "Responsibility Schedule" for work under separate contracts.

1.4 PURCHASE CONTRACTS
A. General: Owner has negotiated Purchase contracts with suppliers of material and equipment to be incorporated into Work. Owner will assign these Purchase contracts to Contractor. Include costs for purchasing, receiving, handling, storage if required, and installation of material and equipment in Contract Sum unless otherwise indicated.
1. Contractor's responsibilities are same as if Contractor had negotiated Purchase contracts, including responsibility to renegotiate purchase and to execute final purchasing agreements.

1.5 OWNER-FURNISHED PRODUCTS
A. Owner will furnish products indicated. Work includes receiving, unloading, handling, storing, protecting, and installing Owner-furnished products.

1.6 ACCESS TO SITE
A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

1.7 WORK RESTRICTIONS
A. Work Restrictions, General: Comply with restrictions on construction operations. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
B. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.
C. Restricted Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

1.8 SPECIFICATION AND DRAWING CONVENTIONS
A. Specification Content: Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
3. Organization of Specifications into Division, Section, and Paragraph is for convenience only and not for the purpose of limiting or restricting the performance of any portion of Work to a particular trade.
B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to Work of all Sections in Specifications.
C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative and procedural requirements for substitutions.

1.2 DEFINITIONS
A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by Contract Documents and proposed by Contractor.
1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.3 ACTION SUBMITTALS
A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
a. Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.
b. Detailed comparison of significant qualities of proposed substitutions with those of Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from Work specified.
c. Detailed comparison of significant qualities of proposed substitutions with those of Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from Work specified
d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects, with project names and addresses as well as names and addresses of architects and owners.
h. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.
i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
j. Detailed comparison of Contractor's construction schedule using proposed substitutions with products specified for Work, including effect on overall Contract Time. If specified product or method of construction cannot be provided within Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
k. Cost information, including a proposal of change, if any, in Contract Sum.
l. Contractor's certification that proposed substitution complies with requirements in Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.
m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

1.4 QUALITY ASSURANCE
A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.5 PROCEDURES
A. Coordination: Revise or adjust affected Work as necessary to integrate work of approved substitutions.

1.6 SUBSTITUTIONS
A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
1. Conditions: Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, requests will be returned without action, except to record noncompliance with these requirements:
a. Requested substitution is consistent with Contract Documents and will produce indicated results.
b. Requested substitution provides sustainable design characteristics that specified product provided for compliance with LEED requirements.
c. Substitution request is fully documented and properly submitted.
d. Requested substitution will not adversely affect Contractor's construction schedule.
e. Requested substitution has received necessary approvals of authorities having jurisdiction.
f. Requested substitution is compatible with other portions of Work.
g. Requested substitution has been coordinated with other portions of Work.
h. Requested substitution provides specified warranty.
B. Substitutions for Convenience: Requests for substitution if received within 60 days after Notice to Proceed. Requests received after that time may be considered or rejected.
1. Conditions: Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, requests will be returned without action, except to record noncompliance with these requirements:
a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume.
b. Requested substitution does not require extensive revisions to Contract Documents.
c. Requested substitution is consistent with Contract Documents and will produce indicated results.
d. Requested substitution provides sustainable design characteristics that specified product provided for compliance with LEED requirements.
e. Substitution request is fully documented and properly submitted.
f. Requested substitution will not adversely affect Contractor's construction schedule.
g. Requested substitution has received necessary approvals of authorities having jurisdiction.
h. Requested substitution is compatible with other portions of Work.
i. Requested substitution has been coordinated with other portions of Work.
j. Requested substitution provides specified warranty.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
1. General coordination procedures.
2. RFIs.
3. Digital project management procedures.

1.2 DEFINITIONS
A. RFI: Request for Information. Request from Owner, Architect, or Contractor seeking information required by or clarifications of Contract Documents.

1.3 INFORMATIONAL SUBMITTALS
A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
1. Name, address, telephone number, and email address of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.
B. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.

1.4 GENERAL COORDINATION PROCEDURES
A. Coordination: Coordinate construction operations included in different Sections of Specifications to ensure efficient and orderly installation of each part of Work. Coordinate construction operations included in different Sections that depend on each other for proper installation, connection, and operation.
1. Schedule construction operations in sequence required to obtain the best results where installation of one part of Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.
B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and scheduled activities of other contractors to avoid conflicts and to ensure orderly progress of Work.

1.5 REQUEST FOR INFORMATION (RFI)
A. General: Immediately on discovery of the need for additional information, clarification, or interpretation of Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
2. Date.
3. Name of Contractor.
4. RFI number, numbered sequentially.
5. RFI subject.
6. Specification Section number and title and related paragraphs, as appropriate.
7. Drawing number and detail references, as appropriate.
8. Field dimensions and conditions, as appropriate.
9. Contractor's suggested resolution. If Contractor's suggested resolution impacts Contract Time or Contract Sum, Contractor shall state impact in the RFI.
10. Contractor's signature.
11. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
C. RFI Forms: Software-generated form with substantially the same content as indicated above, acceptable to Architect.
D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
1. The following Contractor-generated RFIs will be returned without action:
a. Requests for approval of submittals.
b. Requests for approval of substitutions.
c. Requests for approval of Contractor's means and methods.
d. Requests for coordination information already indicated in Contract Documents.
e. Requests for adjustments in the Contract Time or Contract Sum.
f. Requests for interpretation of Architect's actions on submittals.
g. Incomplete RFIs or inaccurately prepared RFIs.
2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect of additional information.
E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Include the following:
1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number including RFIs that were returned without action or withdrawn.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.
F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.

1.6 DIGITAL PROJECT MANAGEMENT PROCEDURES
A. Use of Architect's Digital Data Files: Digital data files of Architect's BIM model or CAD drawings will be provided by Architect for Contractor's use during construction.
1. Digital date files may be used by Contractor in preparing coordination drawings, Shop Drawings, and Project record Drawings.
2. Architect makes no representation as to the accuracy or completeness of digital data files as they relate to Contract Drawings.
3. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.
B. Web-Based Project Management Software Package: Use Owner's web-based Project management software package for purposes of hosting and managing Project communication and documentation until Final Completion.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Submittal schedule requirements.
2. Administrative and procedural requirements for submittals.

1.2 DEFINITIONS
A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.3 SUBMITTAL SCHEDULE
A. Submittal Schedule: Submit, as an action submittal, a list of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.4 SUBMITTAL FORMATS
A. Submittal Information: Include the following information in each submittal:
1. Project name.
2. Date.
3. Name of Architect.
4. Name of Contractor.
5. Name of firm or entity that prepared submittal.
6. Names of subcontractor, manufacturer, and supplier.
7. Category and type of submittal.
8. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
9. Drawing number and detail references, as appropriate.
10. Indication of full or partial submittal.
11. Other necessary identification.
12. Remarks.
13. Signature of transmitter.
B. Options: Identify options requiring selection by Architect.
C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.
D. PDF Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.

1.5 SUBMITTAL PROCEDURES
A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
1. Email: Prepare submittals as PDF package, and transmit to Architect by sending via email. Include PDF transmittal form. Include information in email subject line as requested by Architect.
B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of Work are indicated on approved submittal schedule.
3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of Contract Time will be authorized because of failure to transmit submittals enough in advance of Work to permit processing, including resubmittals.
1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
2. Resubmittal Review: Allow 15 days for review of each resubmittal.
D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.6 SUBMITTAL REQUIREMENTS
A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
2. Mark each copy of each submittal to show which products and options are applicable.
3. Include the following information, as applicable:
a. Manufacturer's catalog cuts.
b. Manufacturer's product specifications.
c. Statement of compliance with specified referenced standards.
d. Testing by recognized testing agency.
e. Application of testing agency labels and seals.
f. Notation of coordination requirements.
4. For equipment, include the following in addition to the above, as applicable:
a. Wiring diagrams that show factory-installed wiring.
b. Printed performance curves.
c. Operational range diagrams.
d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
5. Submit Product Data before Shop Drawings.
B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of Contract Documents or standard printed data unless submittal based on Architect's digital data drawing files is otherwise permitted.
1. Preparation: Fully illustrate requirements in Contract Documents. Include the following information, as applicable:
a. Identification of products.
b. Schedules.
c. Compliance with specified standards.
d. Notation of coordination requirements.
e. Notation of dimensions established by field measurement.
f. Relationship and attachment to adjoining construction clearly indicated.
g. Seal and signature of professional engineer if specified.
C. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for Work and their intended location.
D. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
E. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.
F. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity. Provide a notarized signature where indicated.

1.7 CONTRACTOR'S REVIEW
A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of Contract and for compliance with Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
B. Contractor's Approval: Indicate Contractor's approval for each submittal with a uniform approval stamp. Include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with Contract Documents.

1.8 ARCHITECT'S REVIEW
A. Action Submittals: Architect will review each submittal, indicate corrections or revisions required, and return it.
1. PDF Submittals: Architect will indicate, via markup on each submittal, the appropriate action.
B. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
C. Architect will return without review submittals received from sources other than Contractor.
D. Submittals not required by Contract Documents will be returned by Architect without action.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-901

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative and procedural requirements for quality assurance and quality control.
B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with Contract Document requirements.
1. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with Contract Document requirements.
2. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.2 DEFINITIONS
A. Experienced: When used with an entity or individual, "experienced" unless otherwise further described means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
B. Field Quality-Control Tests: Tests and inspections that are performed on-site for installation of Work and for completed Work.
C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into Work, to verify performance or compliance with specified criteria.
E. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, by a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
F. Source Quality-Control Tests: Tests and inspections that are performed at the source; for example, plant, mill, factory, or shop.
G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
H. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
I. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of Work to evaluate that actual products incorporated into Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect.

1.3 CONFLICTING REQUIREMENTS
A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements are specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for direction before proceeding.
B. Minimum Quantity or Quality Levels: Quantity or quality level shown or specified shall be minimum provided or performed. Actual installation may comply exactly with minimum quantity or quality specified, or it may exceed minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.4 INFORMATIONAL SUBMITTALS
A. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility submitted to authorities having jurisdiction before starting work on following systems:
1. Main wind-force-resisting system or a wind-resisting component listed in the Statement of Special Inspections.
B. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
C. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of Work.

1.5 REPORTS AND DOCUMENTS
A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
1. Date of issue.
2. Project title and number.
3. Name, address, telephone number, and email address of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspection.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.
B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Statement on condition of substrates and their acceptability for installation of product.
2. Statement that products at Project site comply with requirements.
3. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
4. Results of operational and other tests and a statement of whether observed performance complies with requirements.
5. Other required items indicated in individual Specification Sections.
C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Statement that equipment complies with requirements.
2. Results of operational and other tests and a statement of whether observed performance complies with requirements.
3. Other required items indicated in individual Specification Sections.

1.6 QUALITY ASSURANCE
A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.
C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.
F. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
G. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
1. Contractor responsibilities include the following:
a. Provide test specimens representative of proposed products and construction.
b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying Work.
2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from Contract Documents.

1.7 QUALITY CONTROL
A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspection they are engaged to perform.
2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with Contract Documents will be charged to Contractor.
B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that Work complies with requirements.
1. Engage a qualified testing agency to perform quality-control services. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspection will be performed.
3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
4. Testing and inspection requested by Contractor and not required by Contract Documents are Contractor's responsibility.
5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
C. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with Contract Documents.
D. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in Work during performance of its services.
2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
5. Do not release, revoke, alter, or increase Contract Document requirements or approve or accept any portion of Work.
6. Do not perform duties of Contractor.
E. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
F. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of Work, and submittal of written reports.
G. Associated Contractor Services: Cooperate with agencies and representatives performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Preliminary design mix proposed for use for material mixes that require control by testing agency.
6. Security and protection for samples and for testing and inspection equipment at Project site.
H. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.8 SPECIAL TESTS AND INSPECTIONS
A. Special Tests and Inspections: Engage a qualified special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform Work.
2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in Work during performance of its services.
3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.
4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected Work complies with or deviates from Contract Documents.
6. Retesting and reinspecting corrected Work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG
A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
2. Description of Work tested or inspected.
3. Date test or inspection results were transmitted to Architect.
4. Identification of testing agency or special inspector conducting test or inspection.
B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.
1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION
A. General: On completion of testing, inspection, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with Contract Document requirements for cutting and patching in Section 017300 "Execution."
B. Protect construction exposed by or for quality-control service activities.
C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 DEFINITIONS
A. General: Basic Contract definitions are included in the Conditions of the Contract.
B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
G. "Install": Unload, temporarily store, unpack, assemble, erect, place, anchor, apply, work to dimension, finish, cure, protect, clean, and similar operations at Project site.
H. "Provide": Furnish and install, complete and ready for the intended use.
I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.2 INDUSTRY STANDARDS
A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of Contract Documents by reference.
B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
1. For standards referenced by applicable building codes, comply with dates of standards as listed in building codes.
C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.3 ABBREVIATIONS AND ACRONYMS
A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale's "Encyclopedia of Associations: National Organizations of the U.S." or in Columbia Books' "National Trade & Professional Associations of the United States."
B. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is believed to be accurate as of the date of the Contract Documents.
1. IAPMO - International Association of Plumbing and Mechanical Officials; www.iapmo.org.
2. ICC - International Code Council; www.iccsafe.org.
3. ICC-ES - ICC Evaluation Service, LLC; www.icc-es.org.
C. Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the standards and regulations in the following list. This information is subject to change and is believed to be accurate as of the date of the Contract Documents.
D. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is subject to change and is believed to be accurate as of the date of the Contract Documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES
A. Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, testing agencies, and authorities having jurisdiction.

1.3 INFORMATIONAL SUBMITTALS
A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.
B. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.
C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
D. Moisture- and Mold-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage and mold. Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.
1. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and requirements for replacing water-damaged Work.
2. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
3. Indicate methods to be used to avoid trapping water in finished work.

1.4 QUALITY ASSURANCE
A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

PART 2 - PRODUCTS

2.1 TEMPORARY FACILITIES
A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
B. Common-Use Field Office: Sufficient size to accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly.

2.2 EQUIPMENT
A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating, Cooling, and Dehumidifying Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction.

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL
A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
1. Salvage materials and equipment involved in performance of, but not actually incorporated into, Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2 INSTALLATION, GENERAL
A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of Work. Relocate and modify facilities as required by progress of Work.
B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.3 TEMPORARY UTILITY INSTALLATION
A. General: Install temporary service or connect to existing service.
1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
D. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
E. Temporary Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
1. Provide temporary dehumidification systems when required to reduce ambient and substrate moisture levels to level required to allow installation or application of finishes and their proper curing or drying.
F. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
G. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
H. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install WiFi cell phone access equipment and one land-based telephone line(s) for each field office.
I. Electronic Communication Service: Provide secure WiFi wireless connection to internet with provisions for access by Architect and Owner.

3.4 SUPPORT FACILITIES INSTALLATION
A. Comply with the following:
1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E136. Comply with NFPA 241.
2. Utilize designated area within existing building for temporary field offices.
B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas within construction limits indicated on Drawings.
1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.
C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
1. Protect existing site improvements to remain including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.
D. Parking: Provide temporary offsite parking areas for construction personnel.
E. Storage and Staging: Use designated areas of Project site for storage and staging needs.
F. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
2. Remove snow and ice as required to minimize accumulations.
G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
1. Identification Signs: Provide Project identification signs as provided by Owner.
a. Contractor Signs: Contractor may provide their own sign. No other sub-contractor or sub- sub-contractor signs will be permitted.
2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
a. Provide temporary, directional signs for construction personnel and visitors.
3. Maintain and touch up signs so they are legible at all times.
H. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 017300 "Execution."
I. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION
A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.
B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings.
1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant-protection zones.
2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
E. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
F. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using materials approved by authorities having jurisdiction.
G. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people from easily entering site except by entrance gates.
1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
H. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each workday.
I. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
J. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.
K. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.
L. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
1. Prohibit smoking in construction areas. Comply with additional limits on smoking specified in other Sections.
2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.6 MOISTURE AND MOLD CONTROL
A. Moisture and Mold Protection: Protect stored materials and installed Work in accordance with Moisture and Mold Protection Plan.
B. Exposed Construction Period: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
1. Protect porous materials from water damage.
2. Protect stored and installed material from flowing or standing water.
3. Keep porous and organic materials from coming into prolonged contact with concrete.
4. Remove standing water from decks.
5. Keep deck openings covered or dammed.
C. Partially Enclosed Construction Period: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
2. Keep interior spaces reasonably clean and protected from water damage.
3. Periodically collect and remove waste containing cellulose or other organic matter.
4. Discard or replace water-damaged material.
5. Do not install material that is wet.
6. Discard and replace stored or installed material that begins to grow mold.
7. Perform work in a sequence that allows wet materials adequate time to dry before enclosing the material in gypsum board or other interior finishes.
D. Controlled Construction Period: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
2. Use temporary or permanent HVAC system to control humidity within ranges specified for installed and stored materials.
3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.

3.7 OPERATION, TERMINATION, AND REMOVAL
A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
B. Maintenance: Maintain facilities in good operating condition until removal.
1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION

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30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET: SPECIFICATIONS

SHEET NUMBER: A-902

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
1.2 DEFINITIONS
A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. New Products: Items that have not previously been incorporated into another project or facility. Salvaged items or items reused from other projects are not considered new products. Items that are manufactured or fabricated to include recycled content materials are considered new products, unless indicated otherwise.
3. Comparable Product: Product by named manufacturer that is demonstrated and approved through the comparable product submittal process described in Part 2 "Comparable Products" Article, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. Published attributes and characteristics of basis-of-design product establish salient characteristics of products.
1. Evaluation of Comparable Products: In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification. Manufacturer's published attributes and characteristics of basis-of-design product also establish salient characteristics of products for purposes of evaluating comparable products.
C. Subject to Compliance with Requirements: Where the phrase "Subject to compliance with requirements" introduces a product selection procedure in an individual Specification Section, provide products qualified under the specified product procedure. In the event that a named product or product by a named manufacturer does not meet the other requirements of the specifications, select another named product or product from another named manufacturer that does meet the requirements of the specifications; submit a comparable product request or substitution request, if applicable.
D. Comparable Product Request Submittal: An action submittal requesting consideration of a comparable product, including the following information:
1. Identification of basis-of-design product or fabrication or installation method to be replaced, including Specification Section number and title and Drawing numbers and titles.
2. Data indicating compliance with the requirements specified in Part 2 "Comparable Products" Article.
E. Basis-of-Design Product Specification Submittal: An action submittal complying with requirements in Section 013300 "Submittal Procedures."
F. Substitution: Refer to Section 012500 "Substitution Procedures" for definition and limitations on substitutions.
1.3 QUALITY ASSURANCE
A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.
1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING
A. Deliver, store, and handle products, using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
1.5 PRODUCT WARRANTIES
A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Written standard warranty form furnished by individual manufacturer for a particular product and issued in the name of the Owner or endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner and issued in the name of the Owner or endorsed by manufacturer to Owner.
B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included in the Project Manual, prepare a written document, using indicated form properly executed.
3. See other Sections for specific content requirements and particular requirements for submitting special warranties.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES
A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
3. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
4. Where products are accompanied by the term "as selected," Architect will make selection.
5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.
B. Product Selection Procedures:
1. Sole Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
a. Sole product may be indicated by the phrase "Subject to compliance with requirements, provide the following."
2. Sole Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
a. Sole manufacturer/source may be indicated by the phrase "Subject to compliance with requirements, provide products by the following."
3. Limited List of Products: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
a. Limited list of products may be indicated by the phrase "Subject to compliance with requirements, provide one of the following."
4. Non-Limited List of Products: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed or an unnamed product that complies with requirements.
a. Non-limited list of products is indicated by the phrase "Subject to compliance with requirements, available products that may be incorporated in the Work include, but are not limited to, the following."
b. Provision of an unnamed product is not considered a substitution, if the product complies with requirements.
5. Limited List of Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
a. Limited list of manufacturers is indicated by the phrase "Subject to compliance with requirements, provide products by one of the following."
6. Non-Limited List of Manufacturers: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed or a product by an unnamed manufacturer that complies with requirements.
a. Non-limited list of manufacturers is indicated by the phrase "Subject to compliance with requirements, available manufacturers whose products may be incorporated in the Work include, but are not limited to, the following."
b. Provision of products of an unnamed manufacturer is not considered a substitution, if the product complies with requirements.
7. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications may additionally indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
a. For approval of products by unnamed manufacturers, comply with requirements in Section 012500 "Substitution Procedures" for substitutions for convenience.
C. Visual Matching Specification: Where Specifications require the phrase "match Architect's sample," provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Section 012500 "Substitution Procedures" for proposal of product.
D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or a similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.
E. Sustainable Product Selection: Where Specifications require product to meet sustainable product characteristics, select products complying with indicated requirements. Comply with requirements in Division 01 sustainability requirements Section and individual Specification Sections.
1. Select products for which sustainable design documentation submittals are available from manufacturer.
2.2 COMPARABLE PRODUCTS
A. Conditions for Consideration of Comparable Products: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with the following requirements:
1. Evidence that proposed product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work.
2. Detailed comparison of significant qualities of proposed product with those of the named basis-of-design product. Significant product qualities include attributes, such as type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.
3. Evidence that proposed product provides specified warranty.
4. List of similar installations for completed projects, with project names and addresses and names and addresses of architects and owners, if requested.
5. Samples, if requested.
B. Architect's Action on Comparable Products Submittal: If necessary, Architect will request additional information or documentation for evaluation, as specified in Section 013300 "Submittal Procedures."
1. Form of Approval of Submittal: As specified in Section 013300 "Submittal Procedures."
2. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
C. Submittal Requirements, Single-Step Process: When acceptable to Architect, incorporate specified submittal requirements of individual Specification Section in combined submittal for comparable products. Approval by the Architect of Contractor's request for use of comparable product and of individual submittal requirements will also satisfy other submittal requirements.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:
1. Construction layout.
2. Field engineering and surveying.
3. Installation of the Work.
4. Cutting and patching.
5. Coordination of Owner's portion of Work.
6. Coordination of Owner-installed products.
7. Progress cleaning.
8. Starting and adjusting.
9. Protection of installed construction.
10. Correction of the Work.
1.2 DEFINITIONS
A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.
B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.
1.3 INFORMATIONAL SUBMITTALS
A. Certificates: Submit certificate signed by land surveyor or professional engineer, certifying that location and elevation of improvements comply with requirements.
1.4 CLOSEOUT SUBMITTALS
A. Final Property Survey: Submit 3 copies showing Work performed and record survey data.
1.5 QUALITY ASSURANCE
A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.
B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS
A. Comply with requirements specified in other Sections.
1. For projects requiring compliance with sustainable design and construction practices and procedures, use products for patching that comply with sustainable design requirements.
B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.
C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, and other construction affecting Work.
1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, gas service piping, and water-service piping; underground electrical services; and other utilities.
2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
C. Written Report: Where a written report listing conditions detrimental to performance of Work is required by other Sections, include the following:
1. Description of Work, including Specification Section number and paragraph, and Drawing sheet number and detail, where applicable.
2. List of detrimental conditions, including substrates.
3. List of unacceptable installation tolerances.
4. Recommended corrections.
D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with Work indicates acceptance of surfaces and conditions.
3.2 PREPARATION
A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
B. Field Measurements: Take field measurements as required to fit Work properly. Recheck measurements before installing each product. Where portions of Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying Work.
C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of Contract Documents, submit a request for information to Architect in accordance with requirements in Section 013100 "Project Management and Coordination."
3.3 CONSTRUCTION LAYOUT
A. Verification: Before proceeding to lay out Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks and existing conditions. If discrepancies are discovered, notify Architect promptly.
B. Engage a land surveyor or professional engineer experienced in laying out Work, using the following accepted surveying practices:
1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
2. Establish limits on use of Project site.
3. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
4. Inform installers of lines and levels to which they must comply.
5. Check the location, level and plumb, of every major element as Work progresses.
6. Notify Architect when deviations from required lines and levels exceed allowable tolerances.
7. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.
C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations.
D. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.
E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.
3.4 FIELD ENGINEERING
A. Identification: Owner will identify existing benchmarks, control points, and property corners.
B. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning Work. Preserve and protect permanent benchmarks and control points during construction operations.
1. Do not change or relocate existing benchmarks or control points without prior written approval of Architect. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to Architect before proceeding.
2. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.
C. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.
1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
2. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate Work.
3. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.
D. Final Property Survey: Engage a land surveyor or professional engineer to prepare a final property survey showing significant features (real property) for Project. Include on the survey a certification, signed by land surveyor or professional engineer, that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey.
1. Show boundary lines, monuments, streets, site improvements and utilities, existing improvements and significant vegetation, adjoining properties, acreage, grade contours, and the distance and bearing from a site corner to a legal point.
3.5 INSTALLATION
A. Locate Work and components of Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb, and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces, unless otherwise indicated on Drawings.
B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
C. Install products at the time and under conditions that will ensure satisfactory results as judged by Architect. Maintain conditions required for product performance until Substantial Completion.
D. Conduct construction operations, so no part of Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy of type expected for Project.
E. Sequence Work and allow adequate clearances to accommodate movement of construction items on-site and placement in permanent locations.
F. Tools and Equipment: Select tools or equipment that minimize production of excessive noise levels.
G. Templates: Obtain and distribute to the parties involved templates for Work specified to be factory prepared and field installed. Check Shop Drawings of other portions of Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturer.
1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
I. Joints: Make joints of uniform width. Where joint locations in exposed Work are not indicated, arrange joints for the best visual effect, as judged by Architect. Fit exposed connections together to form hairline joints.
3.6 CUTTING AND PATCHING
A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
C. Temporary Support: Provide temporary support of Work to be cut.
D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
E. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
5. Proceed with patching after construction operations requiring cutting are complete.
F. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
b. Restore damaged pipe covering to its original condition.
G. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.
3.7 COORDINATION OF OWNER'S PORTION OF THE WORK
A. Site Access: Provide access to Project site for Owner's construction personnel and Owner's separate contractors.
1. Provide temporary facilities required for Owner-furnished, Contractor-installed products.
B. Coordination: Coordinate construction and operations of Work with work performed by Owner's construction personnel and Owner's separate contractors.
1. Construction Schedule: Inform Owner of Contractor's preferred construction schedule for Owner's portion of Work. Adjust construction schedule based on a mutually agreeable timetable. Notify Owner if changes to schedule are required due to differences in actual construction progress.
3.8 PROGRESS CLEANING
A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
a. Use containers intended for holding waste materials of type to be stored.
4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
B. Site: Maintain Project site free of waste materials and debris.
C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of Work.
1. Remove liquid spills promptly.
2. Where dust would impair proper execution of Work, broom-clean or vacuum the entire work area, as appropriate.
D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 015000 "Temporary Facilities and Controls."
H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.
3.9 STARTING AND ADJUSTING
A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
D. Manufacturer's Field Service: Comply with qualification requirements in Section 014000 "Quality Requirements."
3.10 PROTECTION OF INSTALLED CONSTRUCTION
A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
B. Comply with manufacturer's written instructions for temperature and relative humidity.
3.11 CORRECTION OF THE WORK
A. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.
1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
B. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.
C. Restore permanent facilities used during construction to their specified condition.
D. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
E. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
F. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
1. Warranties.
2. Final cleaning.
3. Repair of Work.
4. Opening day personal.
1.2 SUBMITTAL OF PROJECT WARRANTIES
A. Time of Submittal: Submit written warranties on request of Architect for designated portions of Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.
B. Organize warranty documents into an orderly sequence based on CSI Divisions.
C. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

PART 2 - PRODUCTS

2.1 MATERIALS
A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING
A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
2. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
3. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
4. Sweep concrete floors broom clean in unoccupied spaces.
5. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
6. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
7. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
8. Leave Project clean and ready for occupancy.
3.2 REPAIR OF THE WORK
A. Repair, or remove and replace, defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
3.3 OPENING DAY PERSONAL
A. Owner will provide written notification to Contractor of scheduled "Opening Day". Contractor shall arrange for the job superintendent to be present at Project site to assist from 9:00 a.m. through 2:00 p.m. during "Opening Day". Contractor shall have mechanical, plumbing, and electrical subcontractors on-call during these hours.

END OF SECTION

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30349-2998

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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-903

SECTION 017823 - OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
1. Operation and maintenance documentation directory manuals.
2. Systems and equipment operation manuals.
3. Systems and equipment maintenance manuals.
4. Product maintenance manuals.
5. Project reference drawings.

1.2 CLOSEOUT SUBMITTALS
A. Submit operation and maintenance manuals indicated. Provide content for each manual as specified in individual Specification Sections, and as reviewed and approved at time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section.
1. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions.
B. Format: Submit on digital media acceptable to Architect. Enable reviewer comments on draft submittals.
C. Comply with Section 017700 "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

1.3 FORMAT OF OPERATION AND MAINTENANCE MANUALS
A. Manuals, Electronic Files: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.
1. Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
2. File Names and Bookmarks: Bookmark individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.

1.4 REQUIREMENTS FOR OPERATION, AND MAINTENANCE MANUALS
A. Organization of Manuals: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:
1. Title page.
2. Table of contents.
3. Manual contents.
B. Title Page: Include the following information:
1. Subject matter included in manual.
2. Name and address of Project.
3. Name and address of Owner.
4. Date of submittal.
5. Name and contact information for Contractor.
6. Name and contact information for Architect.
7. Names and contact information for major consultants to Architect that designed the systems contained in the manuals.
8. Cross-reference to related systems in other operation and maintenance manuals.
C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number.
D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment.
E. Identification: In documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in Contract Documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

1.5 SYSTEMS AND EQUIPMENT OPERATION MANUALS
A. Systems and Equipment Operation Manual: Assemble a complete set of data indicating operation of each system, subsystem, and piece of equipment not part of a system. Include information required for daily operation and management, operating standards, and routine and special operating procedures.
B. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:
1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
2. Performance and design criteria if Contractor has delegated design responsibility.
3. Operating standards.
4. Operating procedures.
5. Operating logs.
6. Wiring diagrams.
7. Control diagrams.
8. Piped system diagrams.
9. Precautions against improper use.
10. License requirements including inspection and renewal dates.
C. Descriptions: Include the following:
1. Product name and model number. Use designations for products indicated on Contract Documents.
2. Manufacturer's name.
3. Equipment identification with serial number of each component.
4. Equipment function.
5. Operating characteristics.
6. Limiting conditions.
7. Performance curves.
8. Engineering data and tests.
9. Complete nomenclature and number of replacement parts.
D. Operating Procedures: Include the following, as applicable:
1. Startup procedures.
2. Equipment or system break-in procedures.
3. Routine and normal operating instructions.
4. Regulation and control procedures.
5. Instructions on stopping.
6. Normal shutdown instructions.
7. Seasonal operating instructions.
8. Required sequences for electric or electronic systems.
9. Special operating instructions and procedures.
E. Systems and Equipment Controls: Describe sequence of operation, and diagram controls as installed.
F. Piped Systems: Diagram piping as installed, and identify color coding where required for identification.

1.6 SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS
A. Systems and Equipment Maintenance Manuals: Assemble a complete set of data indicating maintenance of each system, subsystem, and piece of equipment not part of a system. Include manufacturers' maintenance documentation, preventive maintenance procedures and frequency, repair procedures, wiring and systems diagrams, lists of spare parts, and warranty information.
B. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranties and bonds, as described below.
C. Manufacturers' Maintenance Documentation: Include the following information for each component part or piece of equipment:
1. Standard maintenance instructions and bulletins; include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into Work. If data include more than one item in a tabular format, identify each item using appropriate references from Contract Documents. Identify data applicable to Work and delete references to information not applicable.
a. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.
2. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.
3. Identification and nomenclature of parts and components.
4. List of items recommended to be stocked as spare parts.
D. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:
1. Test and inspection instructions.
2. Troubleshooting guide.
3. Precautions against improper maintenance.
4. Disassembly; component removal, repair, and replacement; and reassembly instructions.
5. Aligning, adjusting, and checking instructions.
E. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
1. Include procedures to follow and required notifications for warranty claims.
G. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.

1.7 PRODUCT MAINTENANCE MANUALS
A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into Work.
B. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
C. Maintenance Procedures: Include manufacturer's written recommendations and the following:
1. Inspection procedures.
2. Types of cleaning agents to be used and methods of cleaning.
3. List of cleaning agents and methods of cleaning detrimental to product.
4. Schedule for routine cleaning and maintenance.
5. Repair instructions.
D. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
1. Include procedures to follow and required notifications for warranty claims.

1.8 PROJECT REFERENCE DRAWINGS
A. Project reference drawings: Assemble a complete set of drawings issued for construction by Architect.
B. Content: Organize drawings by discipline as shown in the table of contents on Title Sheet. Include most recent drawings issued during construction including all addendums.
C. Store: Provide a durable rigid tube mounted to mechanical room wall to store reference drawings.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-904

SECTION 042000 - UNIT MASONRY

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Concrete masonry units.
2. Concrete lintels.
3. Brick.
4. Mortar and grout materials.
5. Reinforcement.
6. Ties and anchors.
7. Embedded flashing.
8. Accessories.
9. Masonry cleaners.
10. Mortar and grout mixes.

1.2 DEFINITIONS
A. CMU(s): Concrete masonry unit(s).
B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.3 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Certificates: Materials manufactured within 100 miles of Project, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project and cost for each raw material.

1.4 INFORMATIONAL SUBMITTALS
A. Material Certificates: For each type and size of product. For masonry units, include data on material properties.
B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91/C 91M for air content.
2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.

1.5 FIELD CONDITIONS
A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602.
B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602.

PART 2 - PRODUCTS

2.1 UNIT MASONRY, GENERAL
A. Masonry Standard: Comply with TMS 602, except as modified by requirements in Contract Documents.
B. Defective Units: Referenced masonry standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in completed Work and will be within 20 feet vertically and horizontally of walking surface.
1. Where fire-resistance-rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.

2.2 CONCRETE MASONRY UNITS
A. Regional Materials: CMUs shall be manufactured within 100 miles of Project site from aggregates that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles of Project site.
B. Shapes: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.
1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
C. Integral Water Repellent: Provide units made with integral water repellent for exposed units.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Master Builders Solutions; MasterPel 240 or MasterPel 200HD.
b. Euclid Chemical Company (The); an RPM company; Eucon Blocktite.
c. GCP Applied Technologies Inc. (formerly Grace Construction Products); Dry-Block.
D. CMUs: ASTM C 90.
1. Density Classification: Normal weight.

2.3 CONCRETE LINTELS
A. Solid Concrete Masonry Lintels: ASTM C 1623, matching CMUs in color, texture, and density classification; and with reinforcing bars indicated. Provide lintels with net-area compressive strength not less than that of CMUs.
B. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam CMUs matching adjacent CMUs in color, texture, and density classification, with reinforcing bars placed as indicated and filled with coarse grout. Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

2.4 BRICK
A. General: Provide shapes indicated and as follows, with exposed surfaces matching finish and color of exposed faces of adjacent units:
1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
2. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.
B. Clay Face Brick: Facing brick complying with ASTM C 216.
1. Manufactures: As indicated on Drawings.
2. Grade: SW.
3. Type: FBS.
4. Initial Rate of Absorption: Less than 30 g/30 sq. in. per minute when tested according to ASTM C 67.
5. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not effloresced."
6. Size (Actual Dimensions): 3-5/8 inches wide by 2-1/4 inches high by 7-5/8 inches long.
7. Color and Texture: As indicated on Drawings.

2.5 MORTAR AND GROUT MATERIALS
A. Regional Materials: Aggregate for mortar and grout, cement, and lime shall be manufactured within 100 miles of Project site from materials that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles of Project site.
B. Portland Cement: ASTM C 150/C 150M, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.
C. Hydrated Lime: ASTM C 207, Type S.
D. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
E. Masonry Cement: ASTM C 91/C 91M.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
a. Holcim (US) Inc.
b. Lehigh Hanson; HeidelbergCement Group.
F. Aggregate for Mortar: ASTM C 144.
1. Joints less than 1/4 inch thick, aggregate graded with 100 percent passing the No. 16 sieve.
2. White-Mortar Aggregates: Natural white sand or crushed white stone.
3. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
G. Aggregate for Grout: ASTM C 404.
H. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
I. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer.
J. Water: Potable.

2.6 REINFORCEMENT
A. Uncoated-Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.
B. Masonry-Joint Reinforcement, General: ASTM A 951/A 951M.
1. Exterior Walls: Hot-dip galvanized carbon steel.
2. Wire Size for Side Rods: 0.148-inch diameter.
3. Wire Size for Cross Rods: 0.148-inch diameter.
4. Wire Size for Veneer Ties: 0.148-inch diameter.
5. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches o.c.
6. Provide in lengths of not less than 10 feet, with prefabricated corner and tee units.
C. Masonry-Joint Reinforcement for Single-Wythe Masonry: Ladder type with single pair of side rods.
D. Masonry-Joint Reinforcement for Multiwythe Masonry:
1. Ladder type with one side rod at each face shell of hollow masonry units more than 4 inches wide, plus two side rods at each wythe of masonry 4 inches wide or less.
E. General: Ties and anchors shall extend at least 1-1/2 inches into veneer but with at least a 5/8-inch cover on outside face.
F. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M, with ASTM A153/A153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
G. Adjustable Anchors for Connecting to Structural Steel Framing: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
1. Anchor Section for Welding to Steel Frame: Crimped 1/4-inch-diameter, hot-dip galvanized-steel wire.
2. Tie Section: Triangular-shaped wire tie made from 0.187-inch-diameter, hot-dip galvanized-steel wire.
H. Partition Top Anchors: 0.105-inch-thick metal plate with a 3/8-inch-diameter metal rod 6 inches long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel, hot-dip galvanized after fabrication.
I. Adjustable Masonry-Veneer Anchors:
1. General: Provide anchors that allow vertical adjustment but resist a 100-lbf load in both tension and compression perpendicular to plane of wall without deforming or developing play in excess of 1/16 inch.
2. Fabricate sheet metal anchor sections and other sheet metal parts from 0.075-inch-thick steel sheet, galvanized after fabrication.
3. Fabricate wire ties from 0.187-inch-diameter, hot-dip galvanized-steel wire unless otherwise indicated.
4. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a sheet metal anchor section, with screw holes top and bottom and with raised rib-stiffened strap, stamped into center to provide a slot between strap and base for inserting wire tie.
a. Basis-of-Design Product: Subject to compliance with requirements, provide Hohmann & Barnard, Inc; DW-10HS or a comparable product by one of the following:
1) Wire-Bond.
5. Screw-Attached, Masonry-Veneer Anchors: Wire tie and a gasketed sheet metal anchor section, top and bottom ends bent to form pronged legs of length to match thickness of insulation or sheathing; and raised rib-stiffened strap, stamped into center to provide a slot between strap and base for inserting wire tie.
a. Basis-of-Design Product: Subject to compliance with requirements, provide Hohmann & Barnard, Inc ; X-SEAL Anchor or a comparable product by one of the following:
1) Wire-Bond.
2) Wire-Bond.
6. Coated, Steel Drill Screws for Steel Studs: ASTM C 954 except with hex washer head and neoprene or EPDM washer, No. 10 diameter, and with coating with salt-spray resistance to red rust of more than 800 hours according to ASTM B 117.

2.7 EMBEDDED FLASHING MATERIALS
A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
1. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.016 inch thick.
2. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 feet. Provide splice plates at joints of formed, smooth metal flashing.
3. Fabricate metal drip edges from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
4. Fabricate metal sealant stops from stainless steel. Extend at least 3 inches into wall and out to exterior face of wall. At exterior face of wall, ben metal back on itself for 3/4 inch and down joint 1/4 inch to form a stop for retaining sealant backer rod.
5. Fabricate metal expansion-joint strips from stainless steel to shapes indicated.
B. Flexible Flashing: Provide flexible flashing complying with Section 072500 "Weather Barriers".
C. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.
D. Termination Bars for Flexible Flashing: Stainless steel bars 1/8 inch by 1 inch.
E. Adjustable Masonry-Veneer Anchors:
1. Screw Anchor: This is the typical anchor to be used in a non-seismic zone with wood studs.
2. Screw Anchor: This is the typical anchor to be used in a non-seismic zone with metal studs.

2.8 MISCELLANEOUS MASONRY ACCESSORIES
A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene or PVC.
B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.
C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D 226/D 226M, Type I (No. 15 asphalt felt).
D. Weep/Cavity Vent Products: Use the following unless otherwise indicated:
1. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than depth of outer wythe, in color selected from manufacturer's standard.
a. Basis-of-Design Product: Subject to compliance with requirements, provide Heckmann Building Products, Inc. ; No. 85 Cell Vent. or a comparable product by one of the following:
1) Hohmann & Barnard, Inc.
2) Wire-Bond.
E. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions ; Mortar Net with Insect Barrier. or a comparable product by one of the following:
a. Heckmann Building Products, Inc.
b. Hohmann & Barnard, Inc.
c. Wire-Bond.
2. Configuration: Provide the following: Strips, full depth of cavity and 10 inches high, with dovetail shaped notches 7 inches deep that prevent clogging with mortar droppings.
F. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

2.9 MORTAR AND GROUT MIXES
A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
2. Use portland cement-lime or masonry cement mortar unless otherwise indicated.
3. For exterior masonry, use portland cement-lime or masonry cement mortar.
4. For reinforced masonry, use portland cement-lime or masonry cement mortar.
5. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.
C. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification. Provide the following types of mortar for applications stated unless another type is indicated.
1. For masonry below grade or in contact with earth, use Type M or Type S.
2. For reinforced masonry, use Type S.
3. For exterior, above-grade, load-bearing and nonload-bearing walls and parapet walls; for interior load-bearing walls; for interior nonload-bearing partitions; and for other applications where another type is not indicated, use Type N.
D. Pigmented Mortar: Use colored cement product.
1. Pigments shall not exceed 5 percent of masonry cement or mortar cement by weight.
E. Colored-Aggregate Mortar: Produce required mortar color by using colored aggregates and natural color or white cement as necessary to produce required mortar color.
F. Grout for Unit Masonry: Comply with ASTM C 476.
1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with TMS 602/ACI 530.1/ASCE 6 for dimensions of grout spaces and pour height.
2. Proportion grout in accordance with ASTM C 476, Table 1.
3. Provide grout with a slump of 8 to 11 inches as measured according to ASTM C 143/C 143M.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
B. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.

3.2 TOLERANCES
A. Dimensions and Locations of Elements:
1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch or minus 1/4 inch.
2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch.
3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.
B. Lines and Levels:
1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet, or 1/2-inch maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum.
3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum.
5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.
C. Joints:
1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
2. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
3. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch.

3.3 LAYING MASONRY WALLS
A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less-than-nominal 4-inch horizontal face dimensions at corners or jambs.
C. Fill cores in hollow CMUs with grout 24 inches under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.4 MORTAR BEDDING AND JOINTING
A. Lay CMUs as follows:
1. Bed face shells in mortar and make head joints of depth equal to bed joints.
2. Bed webs in mortar in all courses of piers, columns, and pilasters.
3. Bed webs in mortar in grouted masonry, including starting course on footings.
4. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.
B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.
C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
D. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.5 COMPOSITE MASONRY
A. Bond wythes of composite masonry together as follows:
1. Masonry-Joint Reinforcement: Installed in horizontal mortar joints.
a. Where bed joints of both wythes align, use ladder-type reinforcement extending across both wythes.
b. Where bed joints of wythes do not align, use adjustable-type (two-piece-type) reinforcement with continuous horizontal wire in facing wythe attached to ties.
B. Corners: Provide interlocking masonry unit bond in each wythe and course at corners unless otherwise indicated.
C. Intersecting and Abutting Walls: Unless vertical expansion or control joints are shown at juncture, bond walls together as follows:
1. Provide individual metal ties not more than 16 inches o.c.
2. Provide rigid metal anchors not more than 24 inches o.c. If used with hollow masonry units, embed ends in mortar-filled cores.

3.6 ANCHORED MASONRY VENEERS
A. Anchor masonry veneers to wall framing with masonry-veneer anchors to comply with the following requirements:
1. Fasten screw-attached anchors through sheathing to wall framing with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.
2. Embed connector sections and continuous wire in masonry joints unless otherwise indicated.
3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
4. Metal Stud Framing: Space anchors as indicated, but not more than 18 inches o.c. vertically and 24 inches o.c. horizontally, with not less than one anchor for each 2 sq. ft. of wall area. Install additional anchors within 12 inches of openings and at intervals, not exceeding 8 inches, around perimeter.
5. Wood Stud Framing: Space anchors as indicated, but not more than 16 inches o.c. vertically and 25 inches o.c. horizontally, with not less than one anchor for each 2.67 sq. ft. of wall area. Install additional anchors within 12 inches of openings and at intervals, not exceeding 36 inches, around perimeter.

3.7 MASONRY-JOINT REINFORCEMENT
A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.
1. Space reinforcement not more than 16 inches o.c.
B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
C. Provide continuity at wall intersections by using prefabricated T-shaped units.
D. Provide continuity at corners by using prefabricated L-shaped units.

3.8 FLASHING, WEEP HOLES, AND CAVITY VENTS
A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install cavity vents at shelf angles, ledges, and other obstructions to upward flow of air in cavities, and where indicated.
B. Install flashing as follows unless otherwise indicated:
1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
2. At multiwythe masonry walls, including cavity walls, extend flashing through outer wythe, turned up a minimum of 8 inches, and through inner wythe to within 1/2 inch of the interior face of wall in exposed masonry. Where interior face of wall is to receive furring or framing, carry flashing completely through inner wythe and turn flashing up approximately 2 inches on interior face.
3. At lintels and shelf angles, extend flashing a minimum of 6 inches into masonry at each end. At heads and sills, extend flashing 6 inches at ends and turn up not less than 2 inches to form end dams.
4. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal drip edge.
5. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal flashing termination.
C. Install weep holes in exterior wythes and veneers in head joints of first course of masonry immediately above embedded flashing.
1. Use specified weep/cavity vent products to form weep holes.
2. Space weep holes 24 inches o.c. unless otherwise indicated.
3. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation.
D. Place cavity drainage material in airspace behind veneers to comply with configuration requirements for cavity drainage material in "Miscellaneous Masonry Accessories" Article.
E. Install cavity vents in head joints in exterior wythes at spacing indicated. Use specified weep/cavity vent products to form cavity vents.
1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.9 REINFORCED UNIT MASONRY INSTALLATION
A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and that of other loads that may be placed on them during construction.
B. Placing Reinforcement: Comply with requirements in TMS 602/ACI 530.1/ASCE 6.
C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.
1. Comply with requirements in TMS 602/ACI 530.1/ASCE 6 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Limit height of vertical grout pours to not more than 60 inches.

3.10 FIELD QUALITY CONTROL
A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspections and prepare reports. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.
B. Testing Frequency: One set of tests for each 5000 sq. ft. of wall area or portion thereof.
C. Clay Masonry Unit Test: For each type of unit provided, according to ASTM C 67 for compressive strength.
D. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.
E. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C 780.
F. Grout Test (Compressive Strength): For each mix provided, according to ASTM C 1019.

3.11 REPAIRING, POINTING, AND CLEANING
A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
B. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes.

3.12 MASONRY WASTE DISPOSAL
A. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
1. Do not dispose of masonry waste as fill within 18 inches of finished grade.
B. Masonry Waste Recycling: Return broken CMUs not used as fill to manufacturer for recycling.
C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION

SECTION 055100 - METAL STAIRS AND LADDERS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Metal ladders.

1.2 ACTION SUBMITTALS
A. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
B. Delegated-Design Submittal: For ladders, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS
A. Delegated-Design: Engage a qualified professional engineer as defined in Section 014000 "Quality Requirements," to design ladders.
B. Structural Performance of Aluminum Ladders: Aluminum ladders shall withstand the effects of loads and stresses within limits and under conditions specified in ANSI A14.3.

2.2 METALS
A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
B. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
C. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.
D. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, Alloy 6061-T6.
E. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F.

2.3 FASTENERS
A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
1. Provide stainless-steel fasteners for fastening aluminum.

2.4 FABRICATION, GENERAL
A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.
C. Weld corners and seams continuously to comply with the following:
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended.
D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Locate joints where least conspicuous.
E. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

2.5 METAL LADDERS
A. General: Comply with ANSI A14.3.
B. Aluminum Ladders:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Alaco Ladder Company.
b. O'Keeffe's Inc.
c. Precision Ladders, LLC.
2. Space siderails 18 inches apart unless otherwise indicated.
3. Siderails: Continuous extruded-aluminum channels or tubes, not less than 2-1/2 inches deep, 3/4 inch wide, and 1/8 inch thick.
4. Rungs: Extruded-aluminum tubes, not less than 3/4 inch deep and not less than 1/8 inch thick, with ribbed tread surfaces.

2.6 FINISHES, GENERAL
A. Finish metal fabrications after assembly.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
C. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction.

END OF SECTION

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Framing with dimension lumber.
2. Wood blocking, cants, and nailers.
3. Wood furring.
4. Wood sleepers.
5. Plywood backing panels.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of process and factory-fabricated product.
B. Sustainable Design Submittals:
1. Product Certificates: For materials manufactured within 100 miles of Project, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project and cost for each raw material.
2. Chain-of-Custody Certificates: For certified wood products. Include statement of costs.
3. Chain-of-Custody Qualification Data: For manufacturer and vendor.
4. Product Data: For installation adhesives, indicating VOC content.

1.3 INFORMATIONAL SUBMITTALS
A. Evaluation Reports: For the following, from ICC-ES:
1. Preservative-treated wood.
2. Fire-retardant-treated wood.
3. Power-driven fasteners.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL
A. Regional Materials: Dimension lumber, except treated materials, shall be manufactured within 100 miles of Project site from materials that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles of Project site.
B. Certified Wood: Lumber and plywood shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001 and FSC STD-40-004.
C. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece.
D. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal thickness or less, 19 percent for more than 2-inch nominal thickness unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS
A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
C. Mark lumber with treatment quality mark of inspection agency approved by ALSC Board of Review.
D. Application: Treat items indicated on Drawings, and the following:
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, blocking, furring, and similar concealed members in contact with masonry or concrete.
3. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 DIMENSION LUMBER FRAMING
A. Non-Load-Bearing Interior Partitions: Construction or No. 2 grade of any species.
B. Framing: Construction or No. 2 grade of any of the following species:
1. Hem-fir (north); NLGA.
2. Southern pine; SPIB.
3. Douglas fir-larch; WCLIB or WWPA.
4. Spruce-pine-fir; NLGA.
5. Hem-fir; WCLIB or WWPA.
6. Douglas fir-larch (north); NLGA.

2.4 MISCELLANEOUS LUMBER
A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Cants.
4. Furring.
B. Dimension Lumber Items: Construction or No. 2 grade lumber of any species.
C. Concealed Boards: 15 percent maximum moisture content of any of the following species and grades:
1. Mixed southern pine or southern pine, No. 2 grade; SPIB.
2. Eastern softwoods, No. 2 Common grade; NELMA.
3. Northern species, No. 2 Common grade; NLGA.
4. Western woods, Construction or No. 2 Common grade; WCLIB or WWPA.

2.5 PLYWOOD BACKING PANELS
A. Equipment Backing Panels: Plywood, DOC PS 1, Exterior, C-C Plugged, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.6 FASTENERS
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
B. Screws for Fastening to Metal Framing: ASTM C 954, length as recommended by screw manufacturer for material being fastened.
C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

2.7 MISCELLANEOUS MATERIALS
A. Adhesives for Gluing Furring and Sleepers to Concrete or Masonry: Formulation complying with ASTM D 3498 that is approved for use indicated by adhesive manufacturer.
1. Adhesives shall have a VOC content of 70 g/L or less.
B. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
B. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry accurately to other construction. Locate furring, nailers, blocking, and similar supports to comply with requirements for attaching other construction.
C. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels.
D. Do not splice structural members between supports unless otherwise indicated.
E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
F. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
2. ICC-ES evaluation report for fastener.

END OF SECTION

SECTION 061600 - SHEATHING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Wall sheathing.
2. Sheathing joint and penetration treatment.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of process and factory-fabricated product.
B. Sustainable Design Submittals:
1. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=134"Product Data: For installation adhesives, indicating VOC content.

PART 2 - PRODUCTS

2.1 PRESERVATIVE-TREATED PLYWOOD
A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
B. Mark plywood with appropriate classification marking of an inspection agency acceptable to authorities having jurisdiction.
C. Application: Treat items indicated on Drawings and plywood in contact with masonry or concrete or used with roofing, flashing, vapor barriers, and waterproofing.

2.2 WALL SHEATHING
A. Cementitious Backer Units: ASTM C 1325, Type A.
1. HYPERLINK "http://www.specagent.com/Lookup?ulid=11960" Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. CertainTeed Corporation.
b. HYPERLINK "http://www.specagent.com/Lookup?uid=123457016591" USG Corporation.
2. Thickness: 1/2 inch.

2.3 FASTENERS
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. For wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
2. For wall sheathing, provide fasteners with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
C. Securely attach to substrate by fastening as indicated, complying with the following:
1. Table 2304.9.1, "Fastening Schedule," in the ICC's International Building Code.
2. ICC-ES evaluation report for fastener.
D. Coordinate wall sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
E. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

3.1 CEMENTITIOUS BACKER UNIT INSTALLATION
A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.

END OF SECTION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
ARCHITECT
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-905

SECTION 064214 – BOARD AND BATTEN WOOD PANELING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Board and batten wood paneling.
2. Wood furring, blocking, shims, and hanging strips for installing stile and rail wood paneling that are not concealed within other construction.
1.2 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.3 ACTION SUBMITTALS
A. Shop Drawings: For board and batten wood paneling.
1. Include plans, elevations, sections, and attachment details.
1.4 QUALITY ASSURANCE
A. Installer Qualifications: Fabricator of products.
1.5 FIELD CONDITIONS
A. Environmental Limitations: Do not deliver or install paneling until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of construction period.
PART 2 - PRODUCTS
2.1 PANELING FABRICATORS
A. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of paneling and wood trim.
B. Fabricators: Subject to compliance with requirements, provide products from fabricator indicated on Drawings.
2.2 INSTALLATION MATERIALS
A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln-dried to less than 15 percent moisture content.
B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls.
C. Installation Adhesive: Product recommended by panel fabricator for each substrate for secure anchorage.
2.3 FABRICATION
A. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.
B. Complete fabrication, including assembly, to maximum extent possible before shipment to Project site.
C. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Before installation, condition paneling to humidity conditions in installation areas.
B. Grade: Install paneling to comply with quality standard grade of paneling to be installed.
C. Install paneling level, plumb, true in line, and without distortion. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches. Install with no more than 1/16 inch in 96-inch vertical cup or bow and 1/8 inch in 96-inch horizontal variation from a true plane.
D. Scribe and cut paneling to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
E. Anchor paneling to supporting substrate with blind nailing.
1. Do not use face fastening unless covered by trim.
F. Complete finishing work specified in this Section to extent not completed at shop or before installation of paneling. Fill nail holes with matching filler where exposed.

END OF SECTION

SECTION 066400 - PLASTIC PANELING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes plastic sheet paneling.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For adhesives, indicating VOC content.
2. Product Data: For sealants, indicating VOC content.
3. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.
PART 2 - PRODUCTS
2.1 PLASTIC SHEET PANELING
A. Glass-Fiber-Reinforced Plastic Paneling: Gelcoat-finished, glass-fiber-reinforced plastic panels complying with ASTM D 5319. Panels shall be USDA accepted for incidental food contact.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Crane Composites, Inc.
b. Glasteel.
c. Marlite.
2. Surface-Burning Characteristics: As follows when tested by a qualified testing agency according to ASTM E 84. Identify products with appropriate markings of applicable testing agency.
a. Flame-Spread Index: 200 or less.
b. Smoke-Developed Index: 450 or less.
3. Nominal Thickness: Not less than 0.09 inch.
4. Surface Finish: Molded pebble texture.
5. Color: White.
2.2 ACCESSORIES
A. Trim Accessories: Manufacturer's standard one-piece vinyl extrusions designed to retain and cover edges of panels. Provide division bars, inside corners, outside corners, and caps as needed to conceal edges.
1. Color: White.
2. Adhesives shall have a VOC content of 50 g/L or less.
B. Sealant: Mildew-resistant, single-component, neutral-curing silicone sealant recommended by plastic paneling manufacturer and complying with requirements in Section 079200 "Joint Sealants."
1. Sealant shall have a VOC content of 250 g/L or less.
PART 3 - EXECUTION
3.1 PREPARATION
A. Clean substrates of substances that could impair adhesive bond, including oil, grease, dirt, and dust.
B. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.
C. Lay out paneling before installing. Locate panel joints to provide equal panels at ends of walls not less than half the width of full panels.
3.2 INSTALLATION
A. Install plastic paneling according to manufacturer's written instructions.
B. Install panels in a full spread of adhesive.
C. Fill grooves in trim accessories with sealant before installing panels, and bed inside corner trim in a bead of sealant.
D. Maintain uniform space between panels and wall fixtures. Fill space with sealant.
E. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION

SECTION 072100 - THERMAL INSULATION
PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Extruded polystyrene foam-plastic board.
2. Glass-fiber blanket.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
2. Product Data: For adhesives, indicating VOC content.
3. Laboratory Test Reports: For insulation, indicating compliance with requirements for low-emitting materials.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
B. Research reports.
PART 2 - PRODUCTS
2.1 EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD
A. Extruded polystyrene boards in this article are also called "XPS boards."
B. Extruded Polystyrene Board, Type IV: ASTM C 578, Type IV, 25-psi minimum compressive strength; unfaced; maximum flame-spread and smoke-developed indexes of 25 and 450, respectively, per ASTM E 84.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to:
a. DiversiFoam Products.
b. Dow Chemical Company (The).
c. Owens Corning.
2. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
2.2 GLASS-FIBER BLANKET
A. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
B. Glass-Fiber Blanket, Kraft Faced: ASTM C 665, Type II (nonreflective faced), Class C (faced surface not rated for flame propagation); Category 1 (membrane is a vapor barrier).
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to:
a. CertainTeed Corporation.
b. Johns Manville; a Berkshire Hathaway company.
c. Owens Corning.
C. Glass-Fiber Blanket, Foil Faced: ASTM C 665, Type III (reflective faced), Class B (faced surface with a flame-propagation resistance of 0.12 W/sq. cm); Category 1 (membrane is a vapor barrier), faced with foil scrim, foil-scrim kraft, or foil-scrim polyethylene.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to:
a. CertainTeed Corporation.
b. Johns Manville; a Berkshire Hathaway company.
c. Owens Corning.
2.3 ACCESSORIES
A. Insulation for Miscellaneous Voids:
1. Glass-Fiber Insulation: ASTM C 764, Type II, loose fill; with maximum flame-spread and smoke-developed indexes of 5, per ASTM E 84.
2. Spray Polyurethane Foam Insulation: ASTM C 1029, Type II, closed cell, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.
B. Insulation Anchors, Spindles, and Standoffs: As recommended by manufacturer.
C. Adhesive for Bonding Insulation: Product compatible with insulation and air and water barrier materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.
1. Adhesives shall have a VOC content of 70 g/L or less.
PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
A. Comply with insulation manufacturer's written instructions applicable to products and applications.
B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
D. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.
3.2 INSTALLATION OF SLAB INSULATION
A. On vertical slab edge and foundation surfaces, set insulation units using manufacturer's recommended adhesive according to manufacturer's written instructions.
1. If not otherwise indicated, extend insulation a minimum of 36 inches below exterior grade line.
B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.
1. If not otherwise indicated, extend insulation a minimum of 36 inches in from exterior walls.
3.3 INSTALLATION OF FOUNDATION WALL INSULATION
A. Butt panels together for tight fit.
B. Anchor Installation: Install board insulation on concrete substrates by adhesively attached, spindle-type insulation anchors.
3.4 INSTALLATION OF CAVITY-WALL INSULATION
A. Foam-Plastic Board Insulation: Install pads of adhesive spaced approximately 24 inches o.c. both ways on inside face and as recommended by manufacturer. Fit courses of insulation between wall ties and other obstructions, with edges butted tightly in both directions. Press units firmly against inside substrates.
3.5 INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION
A. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
3. Maintain 3-inch clearance of insulation around recessed lighting fixtures not rated for or protected from contact with insulation.
4. For wood-framed construction, install blankets according to ASTM C 1320 and as follows:
a. With faced blankets having stapling flanges, lap blanket flange over flange of adjacent blanket to maintain continuity of vapor retarder once finish material is installed over it.
5. Vapor-Retarder-Faced Blankets: Tape joints and ruptures in vapor-retarder facings, and seal each continuous area of insulation to ensure airtight installation.
a. Exterior Walls: Set units with facing placed toward warm side of wall.
B. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
1. Glass-Fiber Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft..
2. Spray Polyurethane Insulation: Apply according to manufacturer's written instructions.

END OF SECTION

SECTION 072500 - WEATHER BARRIERS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Building Wrap.
2. Flexible flashing.
3. Drainage material.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 INFORMATIONAL SUBMITTALS
A. Evaluation Reports: For water-resistive barrier and flexible flashing, from ICC-ES.
PART 2 - PRODUCTS
2.1 WATER-RESISTIVE BARRIER
A. Building Wrap: ASTM E1677 one layer of (Type I) building wrap; flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E84; UV stabilized; and acceptable to authorities having jurisdiction.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to, the following:
a. Dow Chemical Company (The).
b. Kingspan Insulation Limited.
c. Raven Industries, Inc.
2. Water-Vapor Permeance: Not less than 20 perms per ASTM E96/E96M, Desiccant Method (Procedure A).
3. Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285.
B. Building Wrap Tape: Pressure-sensitive plastic tape recommended by building wrap manufacturer for sealing joints and penetrations in building wrap.
2.2 FLEXIBLE FLASHING
A. Butyl Rubber Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.040 inch.
1. Products: Subject to compliance with requirements, available products that may be incorporated into Work include, but are not limited to, the following:
a. GCP Applied Technologies Inc.; Vycor Butyl Self Adhered Flashing.
b. Protecto Wrap Company; BT-25 XL.
2. Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285.
2.3 DRAINAGE MATERIAL
A. Drainage Material: Product shall maintain a continuous open space between water-resistive barrier and exterior cladding to create a drainage plane and shall be used under portland cement plaster and adhered masonry veneer.
1. Basis-of-Design Product: Subject to compliance with requirements, provide MTI; Sure Cavity SC 5016 and SC 5032. or a comparable product by one of the following:
a. Keene Building Products.
2. Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285.
PART 3 - EXECUTION
3.1 WATER-RESISTIVE BARRIER INSTALLATION
A. Cover sheathing with water-resistive barrier as follows:
1. Cut back barrier 1/2 inch on each side of the break in supporting members at expansion- or control-joint locations.
2. Apply barrier to cover vertical flashing with a minimum 4-inch overlap unless otherwise indicated.
B. Building Wrap: Comply with manufacturer's written instructions and warranty requirements.
1. Seal seams, edges, fasteners, and penetrations with tape.
2. Extend into jambs of openings and seal corners with tape.
3.2 FLEXIBLE FLASHING INSTALLATION
A. Apply flexible flashing where indicated to comply with manufacturer's written instructions.
1. Lap seams and junctures with other materials at least 4 inches except that at flashing flanges of other construction, laps need not exceed flange width.
2. Lap flashing over water-resistive barrier at bottom and sides of openings.
3. Lap water-resistive barrier over flashing at heads of openings.
3.3 DRAINAGE MATERIAL INSTALLATION
A. Install drainage material over building wrap and flashing to comply with manufacturer's written instructions.

END OF SECTION

SECTION 074293 - SOFFIT PANELS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes metal soffit panels.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
B. Warranties: Samples of special warranties.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.5 WARRANTY
A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
1. Warranty Period: One years from date of Substantial Completion.
B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
1. Finish Warranty Period: 40 years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:
1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.
3. Deflection Limits: For wind loads, no greater than 1/120 of the span.
B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.
2.2 METAL SOFFIT PANELS
A. General: Provide metal soffit panels designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.
B. Flush-Profile Metal Soffit Panels: Solid panels formed with vertical panel edges and a flat pan between panel edges; with flush joint between panels.
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. Exceptional Metals, a division of Duro-Last, Inc.
2. Metallic-Coated Steel Sheet: Aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
a. Nominal Thickness: 0.024 inch.
b. Exterior Finish: Two-coat fluoropolymer.
c. Color: As indicated on Drawings.
3. Panel Coverage: 8 inches.
4. Panel Height: 1.0 inch.
2.3 MISCELLANEOUS MATERIALS
A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 coating designation or ASTM A 792/A 792M, Class AZ50 aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
1. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish system as adjacent metal panels.
D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
2.4 FABRICATION
A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
B. Provide panel profile, including major ribs and intermediate stiffening ribs, for full length of panel.
C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
2.5 FINISHES
A. Panels and Accessories:
1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
2. Concealed Finish: White or light-colored acrylic or polyester backer finish.
PART 3 - EXECUTION
3.1 PREPARATION
A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.
1. Soffit Framing: Wire tie or clip furring channels to supports, as required to comply with requirements for assemblies indicated.
3.2 METAL PANEL INSTALLATION
A. Metal Soffit Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
1. Apply panels and associated items true to line for neat and weathertight enclosure.
2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
4. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
B. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
C. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
3.3 CLEANING
A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

END OF SECTION

SECTION 075419 - POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Mechanically fastened, polyvinyl chloride (PVC) roofing system.
2. Substrate board.
3. Vapor retarder.
4. Roof insulation.
5. Walkways.
1.2 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.3 ACTION SUBMITTALS
A. Product Data: For each type of product.
1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.
B. Sustainable Design Submittals:
1. Product Test Reports: For roof materials, documentation indicating that roof materials comply with Solar Reflectance Index requirements.
2. Product Data: For adhesives and sealants, indicating VOC content.
3. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
C. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.
1.4 INFORMATIONAL SUBMITTALS
A. Manufacturer Certificates:
1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
a. Submit evidence of compliance with performance requirements.
2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.
B. Product Test Reports: For roof membrane and insulation, tests performed by independent qualified testing agency indicating compliance with specified requirements.
C. Research reports.
D. Field quality-control reports.
E. Sample warranties.
1.5 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.6 QUALITY ASSURANCE
A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.
1.7 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 15 years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM D 1.52, ASTM G 154, or ASTM G 155.
B. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272/D 4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
C. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
D. Wind Uplift Resistance: Design roofing system to resist the following wind uplift pressures when tested according to FM Approvals 4474, UL 580, or UL 1897:
E. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials shall comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and shall be listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.
F. Solar Reflectance Index (SRI): Three-year-aged SRI not less than 0.68 or initial SRI not less than 0.68 when calculated according to ASTM E 1980, based on testing identical products by a qualified testing agency.
G. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
2.2 POLYVINYL CHLORIDE (PVC) ROOFING
A. PVC Sheet: ASTM D 4434/D 4434M, Type IV, fabric reinforced.
1. Manufacturers: Subject to compliance with requirements, provide products by:
a. Duro-Last Roofing, Inc.
2. Thickness: 50 mils.
3. Exposed Face Color Horizontal: White.
4. Exposed Face Color Vertical: Tan.
5. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
2.3 AUXILIARY ROOFING MATERIALS
A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.
1. Adhesives and Sealants: Comply with VOC limits of authorities having jurisdiction.
2. Adhesives and sealants shall comply with the following limits for VOC content:
a. Plastic Foam Adhesives: 50 g/L.
b. Gypsum Board and Panel Adhesives: 50 g/L.
c. Multipurpose Construction Adhesives: 70 g/L.
d. Fiberglass Adhesives: 80 g/L.
e. Contact Adhesives: 80 g/L.
f. PVC Welding Compounds: 510 g/L.
g. Other Adhesives: 250 g/L.
h. Single-Ply Roof Membrane Sealants: 450 g/L.
i. Nonmembrane Roof Sealants: 300 g/L.
j. Sealant Primers for Nonporous Substrates: 250 g/L.
k. Sealant Primers for Porous Substrates: 775 g/L.
B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
D. Bonding Adhesive: Manufacturer's standard.
E. Low-Rise, Urethane, Fabric-Backed Membrane Adhesive: Roof system manufacturer's standard spray-applied, low-rise, two-component urethane adhesive formulated for compatibility and use with fabric-backed membrane roofing.
F. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
G. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.
H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.
2.4 SUBSTRATE BOARDS
A. Substrate Board: ASTM C 1396/C 1396M, Type X gypsum board.
1. Thickness: 5/8 inch.
B. Substrate Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate or ASTM C 1278/C 1278M, fiber-reinforced gypsum board.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to:
a. National Gypsum Company.
b. USG Corporation.
2. Thickness: 1/2 inch.
3. Surface Finish: Unprimed.
C. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening substrate board to roof deck.
2.5 ROOF INSULATION
A. Composite Polyisocyanurate Board Insulation: ASTM C 1289, with factory-applied facing board on one major surface, as indicated below by type, and felt or glass-fiber mat facer on the other.
1. Products: Subject to compliance with requirements, provide the following:
a. Duro-Last; Duro-Guard ISO II.
2. Facer: Type II, cellulosic-fiber-insulating-board facer, Class 1, Grade 3, 1/2 inch thick.
3. Size: 48 by 96 inches.
4. Thickness: As indicated on Drawings.
B. Tapered Insulation: Provide factory-tapered insulation boards.
1. Material: Match roof insulation.
2. Minimum Thickness: 1/4 inch.
3. Slope:
a. Roof Field: 1/4 inch per foot unless otherwise indicated on Drawings.
b. Saddles and Crickets: 1/2 inch per foot unless otherwise indicated on Drawings.
2.6 INSULATION ACCESSORIES
A. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
B. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as indicated according to manufacturer written instructions.
2.7 WALKWAYS
A. Flexible Walkways: Factory-formed, nonporous, slip-resisting, surface-textured walkway pads.
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. Duro-Last; Roof Trak III.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of Work.
1. Verify that surface plane flatness and fastening of steel roof deck complies with requirements.
3.2 ROOFING INSTALLATION, GENERAL
A. Install roofing system according to roofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.
B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
3.3 SUBSTRATE BOARD INSTALLATION
A. Install substrate board with long joints in continuous straight lines, with end joints staggered not less than 24 inchesin adjacent rows.
1. At steel roof decks, install substrate board at right angle to flutes of deck.
a. Locate end joints over crests of steel roof deck.
2. Tightly butt substrate boards together.
3. Cut substrate board to fit tight around penetrations and projections, and to fit tight to intersecting sloping roof decks.
4. Fasten substrate board to top flanges of steel deck to resist uplift pressure at corners, perimeter, and field of roof according to roofing system manufacturers' written instructions.
3.4 INSULATION INSTALLATION
A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.
B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
C. Installation Over Metal Decking:
1. Install base layer of insulation with end joints staggered not less than 12 inches in adjacent rows.
a. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
b. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
c. Make joints between adjacent insulation boards not more than 1/4 inch in width.
d. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.
1) Trim insulation so that water flow is unrestricted.
e. Fill gaps exceeding 1/4 inch with insulation.
f. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
g. Mechanically attach base layer of insulation and substrate board using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to metal decks.
3.5 MECHANICALLY FASTENED ROOFING INSTALLATION
A. Mechanically fasten roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
B. Unroll roof membrane and allow to relax before installing.
C. For in-splice attachment, install roof membrane with long dimension perpendicular to steel roof deck flutes.
D. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
E. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
F. Mechanically fasten or adhere roof membrane securely at terminations, penetrations, and perimeter of roofing.
G. Apply roof membrane with side laps shingled with slope of roof deck where possible.
H. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.
I. Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings to ensure a watertight seam installation.
1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
3. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
J. Spread sealant bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.
3.6 BASE FLASHING INSTALLATION
A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.
3.7 WALKWAY INSTALLATION
A. Flexible Walkways: Install walkway products according to manufacturer's written instructions.
3.8 PROTECTING AND CLEANING
A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

END OF SECTION

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CHIPMAN DESIGN ARCHITECTURE INC
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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-906

SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Formed roof-drainage sheet metal fabrications.
2. Formed low-slope roof sheet metal fabrications.
3. Formed wall sheet metal fabrications.
1.2 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.3 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
1.4 INFORMATIONAL SUBMITTALS
A. Product certificates.
B. Product test reports.
C. Sample warranty.
1.5 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.6 QUALITY ASSURANCE
A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
1. For copings and roof edge flashings that are SPRI ES-1 tested, shop shall be listed as able to fabricate required details as tested and approved.
1.7 WARRANTY
A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Finish Warranty Period: 20 years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
C. SPRI Wind Design Standard: Manufacture and install copings and roof edge flashings tested according to SPRI ES-1 and capable of resisting the following design pressure:
1. Design Pressure: As indicated on Drawings.
D. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
E. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
2.2 SHEET METALS
A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
B. Aluminum Sheet: ASTM B 209, alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required.
1. Color Anodic Finish, Coil Coated: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.
2. Exposed Coil-Coated Finish:
a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
3. Color: As indicated on Drawings.
C. Metallic-Coated Steel Sheet: Provide aluminum-zinc alloy-coated steel sheet according to ASTM A 792/A 792M, Class AZ50 coating designation, Grade 40; prepainted by coil-coating process to comply with ASTM A 755/A 755M.
1. Exposed Coil-Coated Finish:
a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
2. Color: As indicated on Drawings.
2.3 UNDERLAYMENT MATERIALS
A. Felt: ASTM D 226/D 226M, Type II (No. 30), asphalt-saturated organic felt; nonperforated.
B. Slip Sheet: Rosin-sized building paper, 3 lb/100 sq. ft. minimum.
2.4 MISCELLANEOUS MATERIALS
A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.
2. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
3. Fasteners for Aluminum-Zinc Alloy-Coated Steel Sheet: Series 300 stainless steel or hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
C. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
D. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
E. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.
F. Bituminous Coating: Cold-applied asphalt emulsion according to ASTM D 1187.
G. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.
2.5 FABRICATION, GENERAL
A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
1. Obtain field measurements for accurate fit before shop fabrication.
2. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
3. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.
B. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
2. Use lapped expansion joints only where indicated on Drawings.
C. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide for proper installation of elastomeric sealant according to cited sheet metal standard.
D. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.
E. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard for application, but not less than thickness of metal being secured.
F. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use. Rivet joints where necessary for strength.
2.6 ROOF-DRAINAGE SHEET METAL FABRICATIONS
A. Hanging Gutters: Fabricate to cross section required, complete with end pieces, outlet tubes, and other accessories as required. Fabricate in minimum 96-inch-long sections. Furnish flat-stock gutter brackets and gutter spacers and straps fabricated from same metal as gutters, of size recommended by cited sheet metal standard but with thickness not less than twice the gutter thickness. Fabricate expansion joints, expansion-joint covers, and gutter accessories from same metal as gutters. Shop fabricate interior and exterior corners.
B. Downspouts: Fabricate rectangular downspouts to dimensions indicated, complete with mitered elbows. Furnish with metal hangers from same material as downspouts and anchors. Shop fabricate elbows.
1. Fabricate from the following materials: Aluminum-Zinc Alloy-Coated Steel: 24-gauge thick.
C. Parapet Scuppers: Fabricate scuppers to dimensions required, with closure flange trim to exterior, 4-inch-wide wall flanges to interior, and base extending 4 inches beyond cant or tapered strip into field of roof.
1. Fabricate from the following materials: Aluminum-Zinc Alloy-Coated Steel: 24-guage thick.
D. Conductor Heads: Fabricate conductor heads with flanged back and stiffened top edge and of dimensions and shape required, complete with outlet tubes.
1. Fabricate from the following materials: Aluminum-Zinc Alloy-Coated Steel: 24-guage thick.
2.7 LOW-SLOPE ROOF SHEET METAL FABRICATIONS
A. Roof Edge Flashing (Gravel Stop) and Fascia Cap: Fabricate in minimum 96-inch-long, but not exceeding 12-foot-long sections. Furnish with 6-inch-wide, joint cover plates. Shop fabricate interior and exterior corners.
1. Fabricate from the Following Materials: Aluminum: 0.040 inch thick.
B. Copings: Fabricate in minimum 96-inch-long, but not exceeding 12-foot-long, sections. Fabricate joint plates of same thickness as copings. Furnish with continuous cleats to support edge of external leg and interior leg. Miter corners, fasten and seal watertight. Shop fabricate interior and exterior corners.
1. Fabricate from the Following Materials: Aluminum: 0.040 inch thick.
2.8 WALL SHEET METAL FABRICATIONS
A. Through-Wall Flashing: Fabricate continuous flashings in minimum 96-inch-long, but not exceeding 12-foot-long, sections, under copings, and at shelf angles. Fabricate discontinuous lintel, sill, and similar flashings to extend 6 inches beyond each side of wall openings; and form with 2-inch-high, end dams. Fabricate from the following materials:
1. Stainless Steel: 0.016 inch thick.
PART 3 - EXECUTION
3.1 UNDERLAYMENT INSTALLATION
A. Felt Underlayment: Install felt underlayment, wrinkle free, using adhesive to minimize use of mechanical fasteners under sheet metal flashing and trim. Apply in shingle fashion to shed water, with lapped joints of not less than 2 inches.
B. Synthetic Underlayment: Install synthetic underlayment, wrinkle free, according to manufacturers' written instructions, and using adhesive where possible to minimize use of mechanical fasteners under sheet metal.
C. Self-Adhering Sheet Underlayment: Install self-adhering sheet underlayment, wrinkle free. Prime substrate if recommended by underlayment manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures. Apply in shingle fashion to shed water, with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Roll laps and edges with roller. Cover underlayment within 14 days.
3.2 INSTALLATION, GENERAL
A. General: Anchor sheet metal flashing and trim and other components of Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
3. Space cleats not more than 12 inches apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.
4. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling and tool marks.
5. Torch cutting of sheet metal flashing and trim is not permitted.
B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
1. Coat concealed side of uncoated-aluminum sheet metal flashing and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.
C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.
1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
2. Use lapped expansion joints only where indicated on Drawings.
D. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.
F. Seal joints as required for watertight construction. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."
G. Rivets: Rivet joints in uncoated aluminum where necessary for strength.
3.3 ROOF-DRAINAGE SYSTEM INSTALLATION
A. General: Install sheet metal roof-drainage items to produce complete roof-drainage system according to cited sheet metal standard unless otherwise indicated. Coordinate installation of roof perimeter flashing with installation of roof-drainage system.
B. Hanging Gutters: Join sections with joints sealed with sealant. Provide for thermal expansion. Attach gutters at eave or fascia to firmly anchor them in position. Provide end closures and seal watertight with sealant. Slope to downspouts.
C. Downspouts: Join sections with 1-1/2-inch telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls. Locate hangers at top and bottom and at approximately 60 inches o.c.
D. Parapet Scuppers: Continuously support scupper, set to correct elevation, and seal flanges to interior wall face, over cants or tapered edge strips, and under roofing membrane.
E. Conductor Heads: Anchor securely to wall, with elevation of conductor head rim at minimum of 1 inch below scupper discharge.
F. Expansion-Joint Covers: Install expansion-joint covers at locations and of configuration indicated. Lap joints minimum of 4 inches in direction of water flow.
3.4 ROOF FLASHING INSTALLATION
A. General: Install sheet metal flashing and trim to comply with performance requirements and cited sheet metal standard. Provide concealed fasteners where possible, and set units true to line, levels, and slopes. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
B. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate.
C. Copings: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated.
3.5 WALL FLASHING INSTALLATION
A. General: Install sheet metal wall flashing to intercept and exclude penetrating moisture according to cited sheet metal standard unless otherwise indicated. Coordinate installation of wall flashing with installation of wall-opening components such as windows, doors, and louvers.
B. Through-Wall Flashing: Installation of through-wall flashing is specified in Section 042000 "Unit Masonry."
C. Opening Flashings in Frame Construction: Install continuous head, sill, and similar flashings to extend 4 inches beyond wall openings.
3.6 CLEANING AND PROTECTION
A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
B. Clean off excess sealants.
C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.

END OF SECTION

SECTION 077200 - ROOF ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Roof curbs.
2. Equipment supports.
3. Roof hatches.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of roof accessory.
1.3 INFORMATIONAL SUBMITTALS
A. Sample warranties.
1.4 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.
PART 2 - PRODUCTS
2.1 EQUIPMENT SUPPORTS
A. Equipment Supports: Rail-type metal equipment supports capable of supporting superimposed live and dead loads between structural supports, including equipment loads and other construction indicated on Drawings, spanning between structural supports; capable of meeting performance requirements; with welded or mechanically fastened and sealed corner joints, and integrally formed structure-mounting flange at bottom.
1. Manufacturers: Subject to compliance with requirements, provide products by:
a. AVCOA.
B. Size: Coordinate dimensions with roughing-in information or Shop Drawings of equipment to be supported.
2.2 PIPE SUPPORTS
A. Pipe Supports: Rubber-type pipe supports capable of supporting superimposed live and dead loads between supports. Constructed of 100 percent recycled rubber and polyurethane prepolymer with a uniform load capacity of 500 pounds per linear foot of support.
1. Manufacturers: Subject to compliance with requirements, provide products by:
a. B-Line; Dura-Blok.
B. Size: Coordinate dimensions with roughing-in information or Shop Drawings of equipment to be supported.
2.3 ROOF HATCH
A. Roof Hatches: Metal roof-hatch units with lids and insulated-walled curbs, welded or mechanically fastened and sealed corner joints, continuous lid-to-curb counterflashing and weathertight perimeter gasketing, straight sides, and integrally formed deck-mounting flange at perimeter bottom.
1. Products: Subject to compliance with requirements, available products that may be incorporated into Work include, but are not limited to, the following:
a. Bilco Company (The); THERMALLY BROKEN ROOF HATCH.
b. Precision Ladders, LLC; PH-A.
B. Type and Size: Single-leaf lid, as indicated on Drawings.
C. Loads: Minimum 40-lbf/sq. ft. external live load and 20-lbf/sq. ft. internal uplift load.
D. Hatch Material: Aluminum sheet.
1. Thickness: Manufacturer's standard thickness for hatch size indicated.
2. Finish: Two-coat fluoropolymer.
3. Color: Bronze.
E. Construction:
1. Insulation: Polyisocyanurate board.
a. R-Value: 18.0 according to ASTM C 1363.
2. Hatch Lid: Opaque, insulated, and double walled, with manufacturer's standard metal liner of same material and finish as outer metal lid.
3. Curb Liner: Manufacturer's standard, of same material and finish as metal curb.
4. On ribbed or fluted metal roofs, form flange at perimeter bottom to conform to roof profile.
5. Fabricate curbs to minimum height of 12 inches above roofing surface unless otherwise indicated.
F. Hardware: Spring operators, hold-open arm, stainless-steel spring latch with turn handles, stainless-steel butt- or pintle-type hinge system, and padlock hasps inside and outside.
1. Provide two-point latch on lids larger than 84 inches.
G. Ladder-Assist Post: Roof-hatch manufacturer's standard device for attachment to roof-access ladder.
1. Operation: Post locks in place on full extension; release mechanism returns post to closed position.
2. Height: 42 inches above finished roof deck.
3. Material: Steel tube.
4. Post: 2-1/4-inch- Insert dimension diameter pipe.
5. Finish: Manufacturer's standard baked enamel or powder coat, yellow.
2.4 METAL MATERIALS
A. Aluminum Sheet: ASTM B 209, manufacturer's standard alloy for finish required, with temper to suit forming operations and performance required.
1. Mill Finish: As manufactured.
2. Exposed Coil-Coated Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
a. Two-Coat Fluoropolymer Finish: AAMA 2605. System consisting of primer and fluoropolymer color topcoat containing not less than 70 percent PVDF resin by weight.
B. Aluminum Extrusions and Tubes: ASTM B 221, manufacturer's standard alloy and temper for type of use, finished to match assembly where used; otherwise mill finished.
C. Stainless-Steel Sheet and Shapes: ASTM A 240/A 240M or ASTM A 666, Type 304.
D. Steel Shapes: ASTM A 36/A 36M, hot-dip galvanized according to ASTM A 123/A 123M unless otherwise indicated.
E. Steel Tube: ASTM A 500/A 500M, round tube.
F. Steel Pipe: ASTM A 53/A 53M, galvanized.
2.5 MISCELLANEOUS MATERIALS
A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items required by manufacturer for a complete installation.
B. Polyisocyanurate Board Insulation: ASTM C 1289, thickness and thermal resistivity as indicated.
C. Wood Nailers: Softwood lumber, pressure treated with waterborne preservatives for aboveground use, acceptable to authorities having jurisdiction, containing no arsenic or chromium, and complying with AWPA C2; not less than 1-1/2 inches thick.
D. Underlayment:
1. Felt: ASTM D 226/D 226M, Type II (No. 30), asphalt-saturated organic felt, nonperforated.
2. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils thick, consisting of slip-resisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.
3. Fasteners: Roof accessory manufacturer's recommended fasteners suitable for application and metals being fastened. Match finish of exposed fasteners with finish of material being fastened. Provide nonremovable fastener heads to exterior exposed fasteners. Furnish the following unless otherwise indicated:
E. Gaskets: Manufacturer's standard tubular or fingered design of neoprene, EPDM, PVC, or silicone or a flat design of foam rubber, sponge neoprene, or cork.
F. Elastomeric Sealant: ASTM C 920, elastomeric polymer sealant as recommended by roof accessory manufacturer for installation indicated; low modulus; of type, grade, class, and use classifications required to seal joints and remain watertight.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Verify dimensions of roof openings for roof accessories. Install roof accessories according to manufacturer's written instructions.
1. Install roof accessories level; plumb; true to line and elevation; and without warping, jogs in alignment, buckling, or tool marks.
2. Anchor roof accessories securely in place so they are capable of resisting indicated loads.
3. Use fasteners, separators, sealants, and other miscellaneous items as required to complete installation of roof accessories and fit them to substrates.
4. Install roof accessories to resist exposure to weather without failing, rattling, leaking, or loosening of fasteners and seals.
B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
1. Coat concealed side of uncoated aluminum roof accessories with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing roof accessories directly on cementitious or wood substrates, install a course of underlayment and cover with manufacturer's recommended slip sheet.
C. Seal joints with elastomeric sealant as required by roof accessory manufacturer.
3.2 REPAIR AND CLEANING
A. Clean exposed surfaces according to manufacturer's written instructions.
B. Replace roof accessories that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION

SECTION 078443 - JOINT FIRESTOPPING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Joints in or between fire-resistance-rated constructions.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For sealants, indicating VOC content.
C. Product Schedule: For each joint firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing agency.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
1.4 CLOSEOUT SUBMITTALS
A. Installer Certificates: From Installer indicating that joint firestopping systems have been installed in compliance with requirements and manufacturer's written instructions.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Fire-Test-Response Characteristics:
1. Perform joint firestopping system tests by a qualified testing agency acceptable to authorities having jurisdiction.
2. Test per testing standards referenced in "Joint Firestopping Systems" Article. Provide rated systems complying with the following requirements:
a. Joint firestopping systems shall bear classification marking of a qualified testing agency.
1) UL in its "Fire Resistance Directory."
2) Intertek Group in its "Directory of Listed Building Products."
2.2 JOINT FIRESTOPPING SYSTEMS
A. Joint Firestopping Systems: Systems that resist spread of fire, passage of smoke and other gases, and maintain original fire-resistance rating of assemblies in or between which joint firestopping systems are installed. Joint firestopping systems shall accommodate building movements without impairing their ability to resist the passage of fire and hot gases.
1. Products: Subject to compliance with requirements, provide the following:
a. 3M Fire Protection Products; Fire Barrier Sealant CP 25WB+.
2. Fire-Resistance Rating: Equal to or exceeding the fire-resistance rating of the wall, floor, or roof in or between which it is installed.
B. Joints at Kitchen Hoods and Stainless-Steel Panel Intersections: Provide joint firestopping systems with rating determined per ASTM E 814.
1. Products: Subject to compliance with requirements, provide one of the following:
a. 3M Fire Protection Products; Fire Barrier Silicone Sealant 2000+.
b. RectorSeal; Flamesafe FS 1900.
2. F-Rating: Equal to or exceeding the fire-resistance rating of the floor assembly.
C. Exposed Joint Firestopping Systems: Flame-spread and smoke-developed indexes of less than 25 and 450, respectively, as determined per ASTM E 84.
1. Sealant shall have a VOC content of 250 g/L or less.
2. Sealant shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
D. Accessories: Provide components of fire-resistive joint systems, including primers and forming materials, that are needed to install elastomeric fill materials and to maintain ratings required. Use only components specified by joint firestopping system manufacturer and approved by the qualified testing agency for conditions indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Examine substrates and conditions, with Installer present, for compliance with requirements for joint configurations, substrates, and other conditions affecting performance of Work.
B. General: Install fire-resistive joint systems to comply with manufacturer's written installation instructions and published drawings for products and applications indicated.
C. Install forming materials and other accessories of types required to support elastomeric fill materials during their application and in position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.
1. After installing elastomeric fill materials and allowing them to fully cure, remove combustible forming materials and other accessories not indicated as permanent components of fire-resistive joint system.
D. Install elastomeric fill materials for fire-resistive joint systems by proven techniques to produce the following results:
1. Elastomeric fill voids and cavities formed by joints and forming materials as required to achieve fire-resistance ratings indicated.
2. Apply elastomeric fill materials so they contact and adhere to substrates formed by joints.
3. For elastomeric fill materials that will remain exposed after completing Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.
3.2 IDENTIFICATION
A. Joint Identification: Identify joint firestopping systems with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of joint edge so labels are visible to anyone seeking to remove or joint firestopping system. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:
1. The words "Warning - Joint Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
2. Contractor's name, address, and phone number.
3. Designation of applicable testing agency.
4. Date of installation.
5. Manufacturer's name.
6. Installer's name.

END OF SECTION

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Nonstaining silicone joint sealants.
2. Urethane joint sealants.
1.2 ACTION SUBMITTALS
A. Product Data: For each joint-sealant product.
B. Sustainable Design Submittals:
1. Product Data: For sealants, indicating VOC content.
2. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
B. Sample warranties.
1.4 WARRANTY
A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Two years from date of Substantial Completion.
B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 JOINT SEALANTS, GENERAL
A. VOC Content: Sealants and sealant primers shall comply with the following:
1. Architectural sealants shall have a VOC content of 250 g/L or less.
2. Sealants and primers for nonporous substrates shall have a VOC content of 250 g/L or less.
3. Sealants and primers for porous substrates shall have a VOC content of 775 g/L or less.
2.2 NONSTAINING SILICONE JOINT SEALANTS
A. Silicone, Nonstaining, S, NS, 100/50, T, NT: Nonstaining, single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
1. Products: Subject to compliance with requirements, provide the following:
a. Dow Corning Corporation; Dow Corning® 790 Silicone Building Sealant.
2.3 URETHANE JOINT SEALANTS
A. Urethane, M, NS, 25, T, NT: Multicomponent, nonsag, plus 25 percent and minus 25 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C 920, Type M, Grade NS, Class 25, Uses T and NT.
1. Products: Subject to compliance with requirements, provide the following:
a. BASF Corporation; Construction Systems; MasterSeal NP 2 (Pre-2014: Sonolastic NP2).
2.4 JOINT-SEALANT BACKING
A. Cylindrical Sealant Backings: ASTM C 1330, Type O (open-cell material), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer.
2.5 MISCELLANEOUS MATERIALS
A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.
C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.
PART 3 - EXECUTION
3.1 PREPARATION
A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
1. Remove laitance and form-release agents from concrete.
2. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion.
B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience.
C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces.
3.2 INSTALLATION OF JOINT SEALANTS
A. General: Comply with ASTM C 1193 and joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated. Tooling agents that are approved in writing by sealant manufacturer that do not discolor sealants or adjacent surfaces.
1. Provide concave joint profile per Figure 8A in ASTM C 1193 unless otherwise indicated.
3.3 JOINT-SEALANT SCHEDULE
A. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces.
1. Joint Locations:
a. Isolation and contraction joints in cast-in-place concrete slabs.
b. Joints between different materials listed above.
c. Other joints as indicated on Drawings.
2. Joint Sealant: Urethane, M, P, 25, T, NT.
3. Joint-Sealant Color: Match exposed concrete.
B. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
a. Control and expansion joints in unit masonry.
b. Joints in dimension stone cladding.
c. Other joints as indicated on Drawings.
2. Joint Sealant: Urethane, M, P, 25, T, NT.
3. Joint-Sealant Color: Match exposed mortar joints.
C. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
a. Control and expansion joints on exposed interior surfaces of exterior walls.
b. Tile control and expansion joints.
c. Vertical joints on exposed surfaces of walls and partitions.
d. Other joints as indicated on Drawings.
2. Joint Sealant: Silicone, S, NS, 100/50, T, NT.
3. Joint-Sealant Color: Clear.
D. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
b. Tile control and expansion joints where indicated.
c. Other joints as indicated on Drawings.
2. Joint Sealant: Silicone, S, NS, 100/50, T, NT.
3. Joint-Sealant Color: Clear.

END OF SECTION

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1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-907

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes:
1. Interior standard steel doors and frames.
2. Exterior standard steel doors and frames.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
2. Environmental Product Declaration: For each product.
3. Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.
C. Shop Drawings: Include the following:
1. Elevations of each door type.
2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
D. Product Schedule: Hollow-metal doors and frames, prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final door hardware schedule.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Basis-of-Design Product: Subject to compliance with requirements, provide Curries Company; ASSA ABLOY; or a comparable product by one of the following:
1. DE LA FONTAINE.
2. North American Door Corp.
2.2 PERFORMANCE REQUIREMENTS
A. Thermally Rated Door Assemblies: Provide door assemblies with R-factor of not less than 5.1 when tested according to ASTM C 518.
2.3 INTERIOR STANDARD STEEL DOORS AND FRAMES
A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
B. Standard-Duty Doors and Frames: SDI A250.8, Level 1; SDI A250.4, Level C. At locations indicated in the Door and Frame Schedule.
1. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches.
c. Face: Metallic-coated steel sheet, minimum thickness of 0.032 inch.
d. Edge Construction: Model 1, Full Flush.
e. Core: Polystyrene.
2. Frames:
a. Materials: Metallic-coated steel sheet, minimum thickness of 0.042 inch.
b. Construction: Face welded.
C. Heavy-Duty Doors and Frames: SDI A250.8, Level 2; SDI A250.4, Level B. At locations indicated in the Door and Frame Schedule.
1. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches.
c. Face: Metallic-coated steel sheet, minimum thickness of 0.042 inch.
d. Edge Construction: Model 1, Full Flush.
e. Core: Polystyrene.
2. Frames:
a. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch.
b. Construction: Face welded.
2.4 EXTERIOR STANDARD STEEL DOORS AND FRAMES
A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
B. Heavy-Duty Doors and Frames: SDI A250.8, Level 2; SDI A250.4, Level B. At locations indicated in Door and Frame Schedule.
1. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches.
c. Face: Metallic-coated steel sheet, minimum thickness of 0.042 inch, with minimum A40 coating.
d. Edge Construction: Model 1, Full Flush.
e. Edge Bevel: Provide manufacturer's standard beveled or square edges.
f. Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets. Seal joints against water penetration.
g. Bottom Edges: Close bottom edges of doors with end closures or channels of same material as face sheets. Provide weep-hole openings in bottoms of exterior doors to permit moisture to escape.
h. Core: Polystyrene.
i. Fire-Rated Core: Manufacturer's standard core for fire-rated doors.
2. Frames:
a. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch, with minimum A40 coating.
b. Construction: Face welded.
2.5 FRAME ANCHORS
A. Jamb Anchors:
1. Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
2. Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet.
3. Postinstalled Expansion Anchor: Minimum 3/8-inch-diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.
B. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor.
C. Material: ASTM A 879/A 879M, Commercial Steel (CS), 04Z coating designation; mill phosphatized.
1. For anchors built into exterior walls, steel sheet complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M; hot-dip galvanized according to ASTM A 153/A 153M, Class B.
2.6 MATERIALS
A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
B. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
C. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
D. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B.
E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
F. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.
G. Mineral-Fiber Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.
H. Glazing: Comply with requirements in Section 088000 "Glazing."
2.7 FABRICATION
A. Hollow-Metal Frames: Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as frames.
1. Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by welding.
2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
3. Door Silencers: Except on weather-stripped frames, drill stops to receive door silencers as follows. Keep holes clear during construction.
a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
b. Double-Door Frames: Drill stop in head jamb to receive two door silencers.
B. Hardware Preparation: Factory prepare hollow-metal doors and frames to receive templated mortised hardware, include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.
1. Reinforce doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.
2. Comply with BHMA A156.115 for preparing hollow-metal doors and frames for hardware.
C. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
1. Provide stops and moldings flush with face of door, and with square stops unless otherwise indicated.
2. Provide fixed frame moldings on outside of exterior and on secure side of interior doors and frames. Provide loose stops and moldings on inside of hollow-metal doors and frames.
3. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.
4. Provide stops for installation with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
2.8 STEEL FINISHES
A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION
3.1 PREPARATION
A. Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces. Touch up factory-applied finishes where spreaders are removed.
B. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.
3.2 INSTALLATION
A. Hollow-Metal Frames: Comply with SDI A250.11.
1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces without damage to completed Work.
a. Where frames are fabricated in sections, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces. Touch-up finishes.
b. Install frames with removable stops located on secure side of opening.
2. Floor Anchors: Secure with postinstalled expansion anchors.
a. Floor anchors may be set with power-actuated fasteners instead of postinstalled expansion anchors if so indicated and approved on Shop Drawings.
3. Solidly pack mineral-fiber insulation inside frames.
4. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with grout or mortar.
5. Installation Tolerances: Adjust hollow-metal frames to the following tolerances:
a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
B. Hollow-Metal Doors: Fit and adjust hollow-metal doors accurately in frames, within clearances specified below.
1. Non-Fire-Rated Steel Doors: Comply with SDI A250.8.
C. Glazing: Comply with installation requirements in Section 088000 "Glazing" and with hollow-metal manufacturer's written instructions.
3.3 CLEANING AND TOUCHUP
A. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
B. Metallic-Coated Surface Touchup: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.
C. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

END OF SECTION

SECTION 081416 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Solid-core doors with plastic-laminate faces.
2. Factory fitting flush wood doors to frames and factory machining for hardware.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of door.
B. Sustainable Design Submittals:
1. Chain-of-Custody Certificates: For certified wood products. Include statement of costs.
2. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
3. Laboratory Test Reports: For composite wood products, indicating compliance with requirements for low-emitting materials.
C. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; and the following:
1. Dimensions and locations of blocking.
2. Dimensions and locations of mortises and holes for hardware.
3. Dimensions and locations of cutouts.
4. Undercuts.
1.3 QUALITY ASSURANCE
A. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=25"Manufacturer Qualifications: Qualified manufacturer certified for chain of custody by FSC-accredited certification body.
B. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=26"Vendor Qualifications: Vendor certified for chain of custody by an FSC-accredited certification body.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=4" Basis-of-Design Product: Subject to compliance with requirements, provide HYPERLINK "http://www.specagent.com/Lookup?uid=123457006436" VT Industries Inc.; Heritage Collection or a comparable product by one of the following:
1. HYPERLINK "http://www.specagent.com/Lookup?uid=123457006428" Graham Wood Doors; ASSA ABLOY Group company.
2. HYPERLINK "http://www.specagent.com/Lookup?uid=123457006441" Oshkosh Door Company.
2.2 PLASTIC-LAMINATE-FACED DOORS
A. Interior Solid-Core Doors:
1. Grade: Premium.
2. Plastic-Laminate Faces: High-pressure decorative laminates complying with NEMA LD 3, Grade HGS.
3. Colors, Patterns, and Finishes: As indicated on Drawings.
4. Exposed Vertical Edges: Plastic laminate that matches faces, applied before faces.
5. Core: Particleboard.
6. Construction: Five plies. Stiles and rails are non-bonded to core, then entire unit is abrasive planed before faces are applied.
2.3 FABRICATION
A. Factory fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of referenced quality standard for fitting unless otherwise indicated.
B. Factory machine doors for hardware that is not surface applied.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Hardware: For installation, see Section 087100 "Door Hardware."
B. Installation Instructions: Doors to comply with manufacturer's written instructions and referenced quality standard, and as indicated.
C. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
D. Factory-Finished Doors: Restore finish before installation if fitting is required at Project site.

END OF SECTION

SECTION 083113 - ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes access doors and frames for walls and ceilings.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 CLOSEOUT SUBMITTALS
A. Record Documents: For fire-rated doors, list of applicable room name and number in which access door is located.
PART 2 - PRODUCTS
2.1 ACCESS DOORS AND FRAMES
A. Flush Access Doors with Exposed Flanges:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to:
a. JL Industries, Inc.; a division of the Activar Construction Products Group.
b. Larsens Manufacturing Company.
c. MIFAB, Inc.
2. Description: Face of door flush with frame, with exposed flange and concealed hinge.
3. Locations: Wall and ceiling.
4. Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gage, factory primed.
5. Metallic-Coated Steel Sheet for Door: Nominal 0.064 inch, 16 gage, factory primed.
6. Frame Material: Same material, thickness, and finish as door.
7. Latch and Lock: Cam latch, hex-head wrench operated.
2.2 MATERIALS
A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
B. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A879/A879M, with cold-rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.
C. Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B; with minimum G60 or A60 metallic coating.
D. Frame Anchors: Same material as door face.
E. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A153/A153M or ASTM F2329.
2.3 FABRICATION
A. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
B. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish mounting holes, attachment devices and fasteners of type required to secure access doors to types of supports indicated.
C. Latch and Lock Hardware:
1. Quantity: Furnish number of latches and locks required to hold doors tightly closed.
2. Keys: Furnish two keys per lock and key all locks alike.
2.4 FINISHES
A. Painted Finishes: Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
1. Factory Primed: Apply manufacturer's standard, lead- and chromate-free, universal primer immediately after surface preparation and pretreatment.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with manufacturer's written instructions for installing access doors and frames.
B. Adjust doors and hardware, after installation, for proper operation.

END OF SECTION

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Storefront framing.
2. Manual-swing entrance doors.
1.2 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.3 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For sealants, indicating VOC content.
2. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
C. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.
1. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
2. Include point-to-point wiring diagrams.
D. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams.
1.4 INFORMATIONAL SUBMITTALS
A. Energy Performance Certificates: NFRC-certified energy performance values from manufacturer.
B. Product test reports.
C. Source quality-control reports.
D. Field quality-control reports.
E. Sample warranties.
1.5 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.6 QUALITY ASSURANCE
A. Installer Qualifications: Entity that employs installers and supervisors who are trained and approved by manufacturer.
B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.
1.7 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Two years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
2. Failure also includes the following:
a. Thermal stresses transferring to building structure.
b. Glass breakage.
c. Noise or vibration created by wind and thermal and structural movements.
d. Loosening or weakening of fasteners, attachments, and other components.
e. Failure of operating units.
B. Structural Loads:
1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.
C. Deflection of Framing Members: At design wind pressure, as follows:
1. Deflection Normal to Wall Plane: Limited to edge of glass in a direction perpendicular to glass plane not exceeding 1/175 of the glass edge length for each individual glazing lite or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.
2. Deflection Parallel to Glazing Plane: Limited to 1/360 of clear span or 1/8 inch, whichever is smaller.
a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.
D. Structural: Test according to ASTM E 330/E 330M as follows:
1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
3. Test Durations: As required by design wind velocity, but not less than 10 seconds.
E. Air Infiltration: Test according to ASTM E 283 for infiltration as follows:
1. Fixed Framing and Glass Area:
a. Maximum air leakage of 0.06 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft..
2. Entrance Doors:
a. Single Doors: Maximum air leakage of 0.5 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..
F. Water Penetration under Static Pressure: Test according to ASTM E 331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested according to a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 10 lbf/sq. ft..
G. Energy Performance: Certify and label energy performance according to NFRC as follows:
1. Thermal Transmittance (U-factor): Fixed glazing and framing areas as a system shall have U-factor of not more than 0.41 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
2. Solar Heat Gain Coefficient (SHGC): Fixed glazing and framing areas as a system shall have SHGC of no greater than 0.26 as determined according to NFRC 200.
3. Condensation Resistance: Fixed glazing and framing areas as a system shall have an NFRC-certified condensation resistance rating of no less than 65 as determined according to NFRC 500.
H. Windborne-Debris Impact Resistance: Pass missile-impact and cyclic-pressure tests according to ASTM E 1996 for Wind Zone 4
1. Large-Missile Test: For glazed openings located within 30 feet of grade.
2. Small-Missile Test: For glazed openings located more than 30 feet above grade.
I. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
2.2 STOREFRONT SYSTEMS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Kawneer North America; an Alcoa company.
2. YKK AP America Inc.
B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
1. Exterior Framing Construction: Thermally broken.
2. Interior Vestibule Framing Construction: Nonthermal.
3. Glazing System: Retained mechanically with gaskets on four sides.
4. Finish: Color anodic finish.
5. Fabrication Method: Field-fabricated stick system.
6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
7. Steel Reinforcement: As required by manufacturer.
C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
2.3 ENTRANCE DOOR SYSTEMS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Kawneer North America; an Alcoa company.
2. YKK AP America, Inc.
B. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation
1. Door Construction: 1-3/4-inch overall thickness, with minimum 0.125-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
2. Door Design: Medium stile; 3-1/2-inch nominal width.
3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.
a. Provide nonremovable glazing stops on outside of door.
2.4 ENTRANCE DOOR HARDWARE
A. General: Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door, to comply with requirements in this Section.
1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
3. Opening-Force Requirements:
a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion and not more than 15 lbf to open the door to its minimum required width.
b. Accessible Interior Doors: Not more than 5 lbf to fully open door.
B. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
C. Pivot Hinges: BHMA A156.4, Grade 1.
1. Offset-Pivot Hinges: Provide top, bottom, and intermediate offset pivots at each door leaf.
D. Butt Hinges: BHMA A156.1, Grade 1, radius corner.
1. Nonremovable Pins: Provide setscrew in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while entrance door is closed.
2. Exterior Hinges: Stainless steel, with stainless-steel pin.
3. Quantities:
a. For doors up to 87 inches high, provide three hinges per leaf.
b. For doors more than 87 and up to 120 inches high, provide four hinges per leaf.
E. Continuous-Gear Hinges: BHMA A156.26.
F. Manual Flush Bolts: BHMA A156.16, Grade 1.
G. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
H. Cylinders: BHMA A156.5, Grade 1.
1. Keying: No master key system. Permanently inscribe each key with a visual key control number and include notation "DO NOT DUPLICATE" to be furnished by Owner.
I. Strikes: Strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
J. Operating Trim: BHMA A156.6.
K. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.
L. Concealed Overhead Holders and Stops: BHMA A156.8, Grade 1.
M. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.
N. Weather Stripping: Manufacturer's standard replaceable components.
1. Compression Type: Made of ASTM D 2000 molded neoprene or ASTM D 2287 molded PVC.
2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
O. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
P. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.
Q. Finger Guards: Manufacturer's standard collapsible neoprene or PVC gasket anchored to frame hinge-jamb at center-pivoted doors.
2.5 GLAZING
A. Glazing: Comply with Section 088000 "Glazing."
B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
C. Glazing Sealants: As recommended by manufacturer.
1. Sealant shall have a VOC content of 250 g/L or less.
2.6 MATERIALS
A. Sheet and Plate: ASTM B 209.
B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
C. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.
D. Structural Profiles: ASTM B 308/B 308M.
E. Steel Reinforcement:
1. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
2. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
3. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.
4. Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM, and prepare surfaces according to applicable SSPC standard.
F. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
G. Recycled Content of Aluminum Components: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
2.7 FABRICATION
A. Form or extrude aluminum shapes before finishing.
B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
C. Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fitted joints with ends coped or mitered.
3. Physical and thermal isolation of glazing from framing members.
4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
5. Provisions for field replacement of glazing from interior.
6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
G. Entrance Door Hardware Installation: Factory install entrance door hardware to greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
H. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.
2.8 ALUMINUM FINISHES
A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.
1. Color: As indicated on Drawings.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General:
1. Comply with manufacturer's written instructions.
2. Do not install damaged components.
3. Fit joints to produce hairline joints free of burrs and distortion.
4. Rigidly secure nonmovement joints.
5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
6. Seal perimeter and other joints watertight unless otherwise indicated.
B. Metal Protection:
1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
C. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.
D. Install components plumb and true in alignment with established lines and grades.
E. Install glazing as specified in Section 088000 "Glazing."
F. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.
1. Exterior Doors: Install produce weathertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.
3.2 FIELD QUALITY CONTROL
A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
B. Aluminum-framed entrances and storefronts will be considered defective if they do not pass tests and inspections.
C. Prepare test and inspection reports.

END OF SECTION

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TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2008
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-908

SECTION 084229.23 - SLIDING AUTOMATIC ENTRANCES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes exterior, sliding, power-operated automatic entrances.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Shop Drawings: For sliding automatic entrances.
1. Include plans, elevations, sections, hardware mounting heights, and attachment details.
2. Include diagrams for power, signal, and control wiring.
3. Indicate locations of activation and safety devices.
4. Include hardware schedule and indicate hardware types, functions, quantities, and locations.
C. Delegated-Design Submittal: For automatic entrances.
1.3 INFORMATIONAL SUBMITTALS
A. Product certificates.
B. Product test reports.
C. Field quality-control reports.
D. Sample warranties.
1.4 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.
1.5 QUALITY ASSURANCE
A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation and maintenance of units required for this Project.
B. Certified Inspector Qualifications: Certified by AAADM.
1.6 SUBSTITUTIONS
A. Proposals for substitution products will not be accepted.
1.7 JOB CONDITIONS
A. Verify that other trades are complete before installing the automatic sliding door system.
B. Mounting surfaces shall be plumb, straight, and secure; substrates shall be of proper dimension and material.
C. Field Measurements: Verify actual dimensions of openings to receive automatic entrances by field measurements before fabrication and indicate on shop drawings.
D. Refer to the construction documents, shop drawings and manufacturer's installation instructions.
E. Coordinate installation with the glass, glazing and electrical work.
F. Observe all appropriate OSHA safety guidelines for this work.
1.8 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of automatic entrances that fail in materials or workmanship within specified warranty period.
1. Warranty Period: One years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 AUTOMATIC ENTRANCE ASSEMBLIES
A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
B. Power-Operated Door Standard: BHMA A156.10.
2.2 PERFORMANCE REQUIREMENTS
A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design automatic entrances.
1. Seismic Loads: As indicated on Drawings.
2. Wind Loads: As indicated on Drawings.
B. Windborne-Debris Impact Resistance: Passes ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone 4 for basic protection.
1. Large-Missile Test: For glazing located within 30 feet of grade.
2. Small-Missile Test: For glazing located between 30 feet and 60 feet above grade.
C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
D. Air Infiltration: Maximum air leakage through fixed glazing and framing areas of 1.25 cfm/sq. ft. of fixed entrance-system area when tested according to ASTM E283 at a minimum static-air-pressure difference of 1.57 lbf/sq. ft..
2.3 SLIDING AUTOMATIC ENTRANCES
A. General: Provide manufacturer's standard automatic entrances, including doors, sidelites, framing, headers, carrier assemblies, roller tracks, door operators, controls, and accessories required for a complete installation.
B. Sliding Automatic Entrance:
1. Biparting-Sliding Units:
a. Products: Subject to compliance with requirements, provide the following:
1) Tormax Technologies, Inc. ; TX9200.
2. Configuration: Biparting-sliding doors with two sliding leaves, transom, and pocketed sidelites on each side.
a. Traffic Pattern: Two way.
b. Emergency Breakaway Capability: As indicated on Drawings.
3. Operator Features:
a. Power opening and closing.
b. Drive System: Belt.
c. Adjustable opening and closing speeds.
d. Adjustable hold-open time between zero and 30 seconds.
e. Obstruction recycle.
f. On-off/hold-open switch to control electric power to operator, key operated.
4. Sliding-Door Carrier Assemblies and Overhead Roller Tracks: Carrier assembly that allows vertical adjustment; consisting of nylon- or delrin-covered, ball-bearing-center steel wheels operating on a continuous roller track, or ball-bearing-center steel wheels operating on a nylon- or delrin-covered, continuous roller track. Support doors from carrier assembly by cantilever and pivot assembly.
a. Rollers: Minimum of two ball-bearing roller wheels and two antirise rollers for each active leaf.
5. Sliding-Door Threshold: Threshold members and bottom-guide-track system with stainless steel, ball-bearing-center roller wheels.
a. Configuration: Saddle-type threshold across door opening and surface-mounted guide-track system at sidelites.
6. Controls: Activation and safety devices according to BHMA standards.
a. Activation Device: Motion sensor mounted on each side of door header to detect pedestrians in activating zone and to open door.
b. Safety Device: Presence sensor mounted on each side of door header and two photoelectric beams mounted in sidelite jambs on one side of the door to detect pedestrians in presence zone and to prevent door from closing.
7. Finish: Finish framing, door(s), and header with Class II, color anodic finish.
a. Color: As indicated by manufacturer's designations.
2.4 ENTRANCE COMPONENTS
A. Framing Members: Extruded aluminum, minimum 0.125 inch thick and reinforced as required to support imposed loads.
1. Nominal Size: As indicated on Drawings.
B. Stile and Rail Doors: 1-3/4-inch-thick, glazed doors with minimum 0.125-inch-thick, extruded-aluminum tubular stile and rail members. Mechanically fasten corners with reinforcing brackets that are welded, or incorporate concealed tie-rods that span full length of top and bottom rails.
1. Glazing Stops and Gaskets: Snap-on, extruded-aluminum stops and preformed gaskets.
2. Stile Design: As indicated on Drawings.
C. Sidelite(s) and Transom: 1-3/4-inch-deep sidelite(s) and transom with minimum 0.125-inch-thick, extruded-aluminum tubular stile and rail members matching door design.
1. Glazing Stops and Gaskets: Same materials and design as for stile and rail door.
D. Headers: Fabricated from minimum 0.125-inch-thick extruded aluminum and extending full width of automatic entrance units to conceal door operators and controls. Provide hinged or removable access panels for service and adjustment of door operators and controls. Secure panels to prevent unauthorized access.
E. Signage: As required by cited BHMA standard.
1. Application Process: Door manufacturer's standard process.
2.5 MATERIALS
A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
1. Extrusions: ASTM B221.
2. Sheet: ASTM B209.
B. Steel Reinforcement: Reinforcement with corrosion-resistant primer complying with SSPC-PS Guide No. 12.00 applied immediately after surface preparation and pretreatment. Use surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
C. Stainless Steel Bars: ASTM A276/A276M or ASTM A666, type 304.
D. Stainless Steel Tubing: ASTM A554, Grade MT 304.
E. Sealants and Joint Fillers: As specified in Section 079200 "Joint Sealants."
F. Nonmetallic, Shrinkage-Resistant Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout; complying with ASTM C1107/C1107M; of consistency suitable for application.
G. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
H. Fasteners and Accessories: Corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
2.6 DOOR OPERATORS AND CONTROLS
A. General: Provide operators and controls, which include activation and safety devices, according to BHMA standards, for condition of exposure, and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated.
B. Door Operators: Provide door operators of size recommended by manufacturer for door size, weight, and movement.
1. Door Operator Performance: Door operators shall open and close doors and maintain them in fully closed position when subjected to Project's design wind loads.
2. Electromechanical Operators: Concealed, self-contained, overhead units powered by fractional-horsepower, permanent-magnet dc motor; with closing speed controlled mechanically by gear train and dynamically by braking action of electric motor; with solid-state microprocessor controller; complying with UL 325; and with manual operation with power off.
C. Motion Sensors: Self-contained, K-band-frequency, microwave-scanner units; fully enclosed by their plastic housings; adjustable to provide detection-field sizes and functions required by BHMA A156.10.
1. Provide capability for switching between bi- and unidirectional detection.
D. Presence Sensors: Self-contained, active-infrared scanner units; adjustable to provide detection-field sizes and functions required by BHMA A156.10. Sensors shall remain active at all times.
E. Photoelectric Beams: Pulsed infrared, sender-receiver assembly for recessed mounting. Beams shall not be active when doors are fully closed.
F. Electrical Interlocks: Unless units are equipped with self-protecting devices or circuits, provide electrical interlocks to prevent activation of operator when door is locked, latched, or bolted.
2.7 HARDWARE
A. General: Provide units in sizes and types recommended by automatic entrance and hardware manufacturers for entrances and uses indicated. Finish exposed parts to match door finish unless otherwise indicated.
B. Breakaway Device for Power-Operated Doors: Device that allows door to swing out in direction of egress to full 90 degrees from any operating position. Interrupt powered operation of door operator while in breakaway mode.
C. Dustproof Strikes for All-Glass Sliding Doors: Recessed, floor type, BHMA A156.16, Grade 1, to receive deadbolt.
D. Weather Stripping: Replaceable components.
1. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
2.8 FABRICATION
A. General: Factory fabricate automatic entrance components to designs, sizes, and thicknesses indicated and to comply with indicated standards.
B. Framing: Provide automatic entrances as prefabricated assemblies. Complete fabrication, assembly, finishing, hardware application, and other work before shipment to Project site.
1. Provide components with concealed fasteners and anchor and connection devices.
2. Fabricate components with accurately fitted joints, with ends coped or mitered to produce hairline joints free of burrs and distortion.
3. Fabricate exterior components to drain water passing joints, condensation occurring within framing members, and moisture migrating within system to exterior.
4. Provide anchorage and alignment brackets for concealed support of assembly from building structure.
5. Allow for thermal expansion of exterior units.
C. Doors: Factory fabricated and assembled in profiles indicated. Reinforce as required to support imposed loads and for installing hardware.
D. Door Operators: Factory fabricated and installed in headers, including adjusting and testing.
E. Glazing: Fabricate framing with minimum glazing edge clearances for thickness and type of glazing indicated, according to GANA's "Glazing Manual."
F. Hardware: Factory install hardware to greatest extent possible; remove only as required for final finishing operation and for delivery to and installation at Project site. Cut, drill, and tap for factory-installed hardware before applying finishes.
1. Provide sliding-type weather stripping, mortised into door, at perimeter of doors.
G. Controls:
1. General: Factory install activation and safety devices in doors and headers as required by BHMA A156.10 for type of door and direction of travel.
2.9 ALUMINUM FINISHES
A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Install automatic entrances according to manufacturer's written instructions and cited BHMA A156.10 for direction of pedestrian travel, including signage, controls, wiring, and connection to the building's power supply.
1. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints. Seal joints watertight.
2. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
3. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous coating.
B. Entrances: Install automatic entrances plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
2. Set headers, carrier assemblies, tracks, operating brackets, and guides level and true to location with anchorage for permanent support.
3. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within system to exterior.
4. Level recesses for recessed thresholds using nonshrink grout.
C. Door Operators: Connect door operators to electrical power distribution system.
D. Controls: Install and adjust activation and safety devices according to manufacturer's written instructions and cited BHMA standard for direction of pedestrian travel. Connect control wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
E. Sealants: Comply with requirements specified in Section 079200 "Joint Sealants" to provide weathertight installation.
1. Set bottom-guide-track system, framing members and flashings in full sealant bed.
2. Seal perimeter of framing members with sealant.
F. Signage: Apply signage on both sides of each door, as required by cited BHMA standard for direction of pedestrian travel.
G. Wiring within Automatic Entrance Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's written limitations on bending radii. Provide and use lacing bars and distribution spools.
3.2 FIELD QUALITY CONTROL
A. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
1. Test and inspect each automatic entrance, using AAADM inspection forms, to determine compliance of installed systems with applicable BHMA standards.
B. Automatic entrances will be considered defective if they do not pass tests and inspections.
C. Prepare test and inspection reports.
3.3 ADJUSTING
A. Adjust hardware, moving parts, door operators, and controls to function smoothly, and lubricate as recommended by manufacturer; comply with requirements of applicable BHMA standards.
B. Readjust door operators and controls after repeated operation of completed installation equivalent to three days' use by normal traffic (100 to 300 cycles).
3.4 DEMONSTRATION
A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain automatic entrances.

END OF SECTION 084229.23

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Mechanical door hardware for the following:
a. Swinging doors.
2. Cylinders for door hardware specified in other Sections.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Door hardware schedule.
C. Keying schedule.
1.3 INFORMATIONAL SUBMITTALS
A. Sample warranty.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.5 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
B. Accessibility Requirements: For door hardware on doors in an accessible route, comply with DOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.
2.2 SCHEDULED DOOR HARDWARE
A. Provide products for each door that comply with requirements indicated in Part 2 and door hardware schedule.
1. Door hardware is scheduled on Drawings Insert location.
2.3 HINGES
A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. McKinney Products Company; an ASSA ABLOY Group company.
2.4 CONTINUOUS HINGES
A. Continuous Hinges: BHMA A156.26; minimum 0.120-inch-thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
B. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Pemko Manufacturing Co.
2.5 MECHANICAL LOCKS AND LATCHES
A. Lock Functions: As indicated in door hardware schedule.
B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
1. Bored Locks: Minimum 1/2-inch latchbolt throw.
C. Lock Backset: 2-3/4 inches unless otherwise indicated.
D. Lock Trim:
1. Description: As indicated on Drawings.
2. Levers: Cast, Model L.
3. Escutcheons (Roses): Wrought.
4. Dummy Trim: Match lever lock trim and escutcheons.
E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
F. Bored Locks: BHMA A156.2; Grade 1; Series 4000.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. SARGENT Manufacturing Company; ASSA ABLOY.
2.6 AUXILIARY LOCKS
A. Push-Button Combination Locks: BHMA A156.36; cylindrical; Grade 1; lock opens by entering a one- to five-digit code by pushing correct buttons in correct sequence; automatically relocks when door is closed; with strike that suits frame.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Alarm Lock, LLC.
2.7 EXIT LOCKS AND EXIT ALARMS
A. Exit Locks and Alarms: BHMA A156.29, Grade 1.
2.8 EXIT DEVICES AND AUXILIARY ITEMS
A. Exit Devices and Auxiliary Items: BHMA A156.3.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Allegion plc.
2.9 LOCK CYLINDERS
A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver. Provide cylinder from same manufacturer of locking devices.
B. Standard Lock Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset.
C. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.
2.10 KEYING
A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock.
1. Master Key System: Change keys and a master key operate cylinders.
a. Provide three-cylinder change keys and five master keys.
B. Keys: Nickel silver.
1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation;
a. Notation: "DO NOT DUPLICATE."
2.11 OPERATING TRIM
A. Operating Trim: BHMA A156.6; stainless steel unless otherwise indicated.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Rockwood Manufacturing Company; an ASSA ABLOY Group company.
2.12 SURFACE CLOSERS
A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. SARGENT Manufacturing Company; ASSA ABLOY.
2.13 DOOR GASKETING
A. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Pemko Manufacturing Co.
B. Maximum Air Leakage: When tested according to ASTM E 283 with tested pressure differential of 0.3-inch wg, as follows:
1. Gasketing on Single Doors: 0.3 cfm/sq. ft. of door opening.
2. Gasketing on Double Doors: 0.50 cfm per foot of door opening.
2.14 THRESHOLDS
A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Pemko Manufacturing Co.
2.15 METAL PROTECTIVE TRIM UNITS
A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch-thick as indicated on Drawings; with manufacturer's standard machine or self-tapping screw fasteners.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Rockwood Manufacturing Company; an ASSA ABLOY Group company.
2.16 AUXILIARY DOOR HARDWARE
A. Auxiliary Hardware: BHMA A156.16.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by the following:
a. Rockwood Manufacturing Company; an ASSA ABLOY Group company.
2.17 FINISHES
A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Wood Doors: DHI's "Recommended Locations for Architectural Hardware for Wood Flush Doors."
B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
1. Furnish permanent cores to Owner for installation.
E. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."
F. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
G. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
1. Do not notch perimeter gasketing to install other surface-applied hardware.
H. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
I. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
3.2 ADJUSTING
A. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

END OF SECTION

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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-909

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes:
1. Glass for windows, doors, and storefront framing.
2. Glazing sealants and accessories.
1.2 COORDINATION
A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
1.3 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For sealants, indicating VOC content.
C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
1.4 INFORMATIONAL SUBMITTALS
A. Preconstruction adhesion and compatibility test report.
1.5 QUALITY ASSURANCE
A. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
1. Guardian Glass; SunGuard.
2. JE Berkowitz, LP.
3. Pilkington North America.
4. Viracon, Inc.
2.2 PERFORMANCE REQUIREMENTS
A. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the International Building Code and ASTM E 1300.
1. Design Wind Pressures: As indicated on Drawings.
B. Windborne-Debris-Impact Resistance: Exterior glazing shall comply with basic-protection testing requirements in ASTM E 1996 for Wind Zone 4 when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on Project and shall be installed in same manner as glazing indicated for use on Project.
1. Large-Missile Test: For glazing located within 30 feet of grade.
2. Small-Missile Test: For glazing located more than 30 feet above grade.
C. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
1. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
2. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
3. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
2.3 GLASS PRODUCTS, GENERAL
A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.
2.4 GLASS PRODUCTS
A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.
B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
C. Heat-Strengthened Float Glass: ASTM C 1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
2.5 LAMINATED GLASS
A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written instructions.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.
B. Windborne-Debris-Impact-Resistant Laminated Glass: Comply with requirements specified above for laminated glass except laminate glass with the following to comply with interlayer manufacturer's written instructions:
1. Polyvinyl butyral interlayer.
2.6 INSULATING GLASS
A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
1. Sealing System: Dual seals.
2. Perimeter Spacer: Manufacturer's standard spacer material and construction Thermally broken aluminum.
2.7 GLAZING SEALANTS
A. General:
1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Sealant shall have a VOC content of 250 g/L or less.
4. Colors of Exposed Glazing Sealants: Match framing material.
B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
2.8 GLAZING TAPES
A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
1. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.
2.9 MISCELLANEOUS GLAZING MATERIALS
A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
B. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
C. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
D. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
PART 3 - EXECUTION
3.1 GLAZING, GENERAL
A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
F. Provide spacers for glass lites where length plus width is larger than 50 inches.
G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
3.2 TAPE GLAZING
A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
E. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
3.3 GASKET GLAZING (DRY)
A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
E. Install gaskets so they protrude past face of glazing stops.
3.4 SEALANT GLAZING (WET)
A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.
3.5 CLEANING AND PROTECTION
A. Immediately after installation remove nonpermanent labels and clean surfaces.
B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
C. Remove and replace glass that is damaged during construction period.
3.6 MONOLITHIC GLASS SCHEDULE
A. Glass Type G-1: Clear float glass.
1. Minimum Thickness: 6 mm.
2. Safety glazing required.
B. Glass Type G-11: Clear fully tempered float glass.
1. Minimum Thickness: 12 mm.
2. Safety glazing required.
3.7 LAMINATED GLASS SCHEDULE
A. Glass Type G-3: Clear laminated glass with two plies of fully tempered float glass.
1. Basis-of-Design Product: Guardian Glass.
2. Minimum Thickness of Each Glass Ply: 6 mm.
3. Interlayer Thickness: 0.030 inch.
4. Safety glazing required.
3.8 INSULATING GLASS SCHEDULE
A. Glass Type G-21: Low-E-coated, clear insulating glass.
1. Basis-of-Design Product: Guardian Glass; SunGuard.
2. Overall Unit Thickness: 1 inch.
3. Minimum Thickness of Each Glass Lite: 6 mm.
4. Outdoor Lite: Fully tempered float glass.
5. Interspace Content: Air.
6. Indoor Lite: Fully tempered float glass.
7. Low-E Coating: Pyrolytic on second surface.
8. Winter Nighttime U-Factor: 0.29 maximum.
9. Summer Daytime U-Factor: 0.27 maximum.
10. Visible Light Transmittance: 54 percent minimum.
11. Solar Heat Gain Coefficient: 0.28 maximum.
12. Safety glazing required.
B. Glass Type G-31: Low-E coated, acid etched insulating glass.
1. Basis-of-Design Product: Guardian Glass; SunGuard.
2. Overall Unit Thickness: 1 inch.
3. Minimum Thickness of Each Glass Lite: 6 mm.
4. Outdoor Lite: Fully tempered float glass.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Acid Etching: Opaque on third surface.
8. Winter Nighttime U-Factor: 0.29 maximum.
9. Summer Daytime U-Factor: 0.27 maximum.
10. Visible Light Transmittance: 54 percent minimum.
11. Solar Heat Gain Coefficient: 0.28 maximum.
12. Safety glazing required.
C. Glass Type G-41: Ceramic-coated, low-E, insulating spandrel glass.
1. Basis-of-Design Product: Viracon; Viraspan.
2. Coating Color: As selected by Architect from manufacturer's full range.
3. Overall Unit Thickness: 1 inch.
4. Minimum Thickness of Each Glass Lite: 6 mm.
5. Outdoor Lite: Fully tempered float glass.
6. Interspace Content: Air.
7. Indoor Lite: Fully tempered float glass.
8. Low-E Coating: Pyrolytic on second surface.
9. Opaque Coating Location: Fourth surface.
10. Winter Nighttime U-Factor: 0.29 maximum.
11. Summer Daytime U-Factor: 0.27 maximum.

END OF SECTION

SECTION 088300 - MIRRORS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes the following types of silvered flat glass mirrors:
1. Annealed monolithic glass mirrors.
2. Tempered glass mirrors qualifying as safety glazing.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Shop Drawings: Include mirror elevations, edge details, mirror hardware, and attachment details.
1.3 INFORMATIONAL SUBMITTALS
A. Sample Warranty: For special warranty.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance Data: For mirrors to include in maintenance manuals.
1.5 WARRANTY
A. Special Warranty: Manufacturer agrees to replace mirrors that deteriorate within specified warranty period. Deterioration of mirrors is defined as defects developed from normal use that are not attributed to mirror breakage or to maintaining and cleaning mirrors contrary to manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.
1. Warranty Period: Five years from date of manufacture.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to, the following:
1. Gilded Mirrors, Inc.
2. Virginia Mirror Company, Inc.
3. Walker Glass Co., Ltd.
2.2 SILVERED FLAT GLASS MIRRORS
A. Mirrors, General: ASTM C1503.
B. Annealed Monolithic Glass Mirrors: Mirror Glazing Quality, clear.
1. Nominal Thickness: 6.0 mm.
C. Tempered Glass Mirrors: Mirror Glazing Quality for blemish requirements and complying with ASTM C1048 for Kind FT, Condition A, tempered float glass before silver coating is applied.
1. Nominal Thickness: 6.0 mm.
D. Safety Glazing Products: For tempered mirrors, provide products that comply with 16 CFR 1201, Category II.
2.3 MISCELLANEOUS MATERIALS
A. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
B. Edge Sealer: Coating approved by mirror manufacturer.
C. Mirror Mastic: An adhesive setting compound, asbestos-free, produced specifically for setting mirrors.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to, the following:
a. C.R. Laurence Co., Inc.
b. Palmer Products Corporation.
c. Sommer & Maca Industries, Inc.
D. Film Backing for Safety Mirrors: Film backing and pressure-sensitive adhesive; both compatible with mirror backing paint as certified by mirror manufacturer.
2.4 MIRROR HARDWARE
A. Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel to accommodate mirrors of thickness indicated and in lengths required to cover edges of mirrors in a single piece.
1. Bottom and Side Trim: J-channels formed with front leg and back leg not less than 3/8 and 7/8 inch in height, respectively, and a thickness of not less than 0.04 inch.
2. Top Trim: J-channels formed with front leg and back leg not less than 5/8 and 1 inch in height, respectively, and a thickness of not less than 0.04 inch.
3. Finish: Clear bright anodized.
B. Mirror Bottom Clips: As indicated.
C. Mirror Top Clips: As indicated.
D. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed.
2.5 FABRICATION
A. Fabricate cutouts for notches and holes in mirrors without marring visible surfaces. Locate and size cutouts so they fit closely around penetrations in mirrors.
B. Mirror Edge Treatment: Flat polished. Seal edges of mirrors with edge sealer.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, over which mirrors are to be mounted, with Installer present, for compliance with installation tolerances, substrate preparation, and other conditions affecting performance of the Work.
B. Proceed with installation only after unsatisfactory conditions have been corrected and surfaces are dry.
3.2 PREPARATION
A. Comply with mastic manufacturer's written installation instructions for preparation of substrates, including coating substrates with mastic manufacturer's special bond coating where applicable.
3.3 INSTALLATION
A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images.
B. Install mirrors with mastic and mirror hardware. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrors.
1. Apply mastic to comply with mastic manufacturer's written instructions for coverage and to allow air circulation between back of mirrors and face of mounting surface.
C. Clean exposed surface of mirrors not more than four days before date scheduled for inspections that establish date of Substantial Completion. Clean mirrors as recommended in writing by mirror manufacturer.

END OF SECTION 088300

SECTION 092216 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Non-load-bearing steel framing systems for interior partitions.
2. Suspension systems for interior ceilings and soffits.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
1.3 QUALITY ASSURANCE
A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association or the Steel Stud Manufacturers Association.
PART 2 - PRODUCTS
2.1 FRAMING SYSTEMS
A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
B. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
2. Protective Coating: ASTM A 653/A 653M, G60, hot-dip galvanized unless otherwise indicated.
C. Studs and Tracks: ASTM C 645.
1. Steel Studs and Tracks:
a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to, the following:
1) ClarkDietrick Building Systems.
2) MarinoWARE.
3) Steel Network, Inc. (The).
4) Telling Industries.
b. Minimum Base-Metal Thickness: 0.0296 inch.
c. Depth: As indicated on Drawings.
D. Slip-Type Head Joints: Where indicated, provide one of the following:
1. Single Long-Leg Track System: ASTM C 645 top track with 2-inch-deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top track and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. ClarkDietrich Building Systems.
b. MarinoWARE.
2. Minimum Base-Metal Thickness: 0.0296 inch.
Retain "Cold-Rolled Channel Bridging" Paragraph below for channel bridging for fixture attachment or lateral bracing. Indicate locations and details of installation on Drawings.
F. Cold-Rolled Channel Bridging: Steel, 0.0538-inch minimum base-metal thickness, with minimum 1/2-inch-wide flanges.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. ClarkDietrich Building Systems.
b. MarinoWARE.
c. Steel Network, Inc. (The).
d. Telling Industries.
2. Depth: 1-1/2 inches.
3. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel.
2.2 SUSPENSION SYSTEMS
A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch-diameter wire.
B. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter.
C. Gypsum Suspension System: Proprietary suspension system for gypsum and plaster board assemblies.
1. Manufacturer: Subject to compliance with requirements, provide the following:
a. CertainTeed Ceilings; 1-1/2- inch Drywall System.
2.3 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards.
1. Fasteners for Steel Framing: Type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
B. Isolation Strip at Exterior Walls: Provide one of the following:
1. Asphalt-Saturated Organic Felt: ASTM D 226/D 226M, Type I (No. 15 asphalt felt), nonperforated.
2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8- inch thick, in width to suit steel stud size.
C. Resilient Fireblocking at Metal Framing: Provide one-piece steel fireblocking in widths, spacing, and thickness to match adjacent stud framing.
1. Manufacturers: Subject to compliance with requirements, provide one the following:
a. ClarkDeitrick Building Systems; Fire Blocking.
b. Metal-Lite; Fire-Tite.
c. SCAFCO Steel Stud Company; FTB – Fire Track Blocking.

PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
A. Installation Standard: ASTM C 754.
1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
D. Install bracing at terminations in assemblies.
E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.
3.2 INSTALLING FRAMED ASSEMBLIES
A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
C. Install studs so flanges within framing system point in same direction.
D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
a. Install two studs at each jamb unless otherwise indicated.
b. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
E. Install fireblocking as indicated on Drawings.
F. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.
3.3 INSTALLING CEILING SUSPENSION SYSTEMS
A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
C. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counterspaying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
4. Do not connect or suspend steel framing from ducts, pipes, or conduit.
D. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

END OF SECTION

SECTION 092900 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Interior gypsum board.
2. Exterior gypsum board for ceilings and soffits.
3. Tile backing panels.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
2. Product Data: For adhesives and sealants, indicating VOC content.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
2.2 GYPSUM BOARD, GENERAL
A. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 5 percent.
B. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
2.3 INTERIOR GYPSUM BOARD
A. Gypsum Wallboard: ASTM C 1396/C 1396M.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. Georgia-Pacific Building Products.
b. National Gypsum Company.
c. USG Corporation.
2. Thickness: 1/2 inch.
3. Long Edges: Tapered.
B. Gypsum Board, Type X: ASTM C 1396/C 1396M.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. Georgia-Pacific Building Products.
b. National Gypsum Company.
c. USG Corporation.
2. Thickness: 5/8 inch.
3. Long Edges: Tapered.
C. Gypsum Ceiling Board: ASTM C 1396/C 1396M.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. Georgia-Pacific Building Products.
b. National Gypsum Company.
c. USG Corporation.
2. Thickness: 1/2 inch.
3. Long Edges: Tapered.
D. Mold-Resistant Gypsum Board: ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. Georgia-Pacific Building Products.
b. National Gypsum Company.
c. USG Corporation.
2. Core: As indicated.
3. Long Edges: Tapered.
4. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.
2.4 TILE BACKING PANELS
A. Cementitious Backer Units: ANSI A118.9 and ASTM C 1288 or ASTM C 1325, with manufacturer's standard edges.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. CertainTeed Corporation.
b. National Gypsum Company.
c. USG Corporation.
2. Thickness: 1/2 inch.
3. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.
2.5 TRIM ACCESSORIES
A. Interior Trim: ASTM C 1047.
1. Material: Plastic.
2. Manufactures: Subject to compliance use the following:
a. TrimTex.
3. Shapes:
a. Cornerbead.
b. Bullnose bead.
c. LC-Bead: J-shaped; exposed long flange receives joint compound.
d. L-Bead: L-shaped; exposed long flange receives joint compound.
e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
2.6 JOINT TREATMENT MATERIALS
A. General: Comply with ASTM C 475/C 475M.
B. Joint Tape:
1. Interior Gypsum Board: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.
C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use setting-type, sandable topping compound.
5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound.
D. Joint Compound for Tile Backing Panels:
1. Cementitious Backer Units: As recommended by backer unit manufacturer.
2.7 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
1. Adhesives shall have a VOC content of 50 g/L or less.
C. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
D. Sound-Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.
2. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 50 percent.
E. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to the following:
a. Accumetric LLC.
b. Pecora Corporation.
2. Sealant shall have a VOC content of 250 g/L or less.
F. Thermal Insulation: As specified in Section 072100 "Thermal Insulation."
PART 3 - EXECUTION
3.1 APPLYING AND FINISHING PANELS
A. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
B. Comply with ASTM C 840.
C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch-wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
D. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
E. Prefill open joints and damaged surface areas.
F. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
G. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 2: Panels that are substrate for tile.
3. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
H. Cementitious Backer Units: Finish according to manufacturer's written instructions.
3.2 PROTECTION
A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
B. Remove and replace panels that are wet, moisture damaged, and mold damaged.

END OF SECTION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL: 847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248
BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-910

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Ceramic tile.
2. Stainless steel tile.
3. Quarry tile.
4. Porcelain tile.
5. Glazed wall tile.
6. Stone thresholds.
7. Waterproof membrane for thinset applications.
8. Crack isolation membrane.
9. Metal edge strips.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For adhesives, indicating VOC content.
1.3 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Installer.
1.4 QUALITY ASSURANCE
A. Installer Qualifications:
1. Installer is a five-star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.
2. Installer employs Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers.
PART 2 - PRODUCTS
2.1 PRODUCTS, GENERAL
A. ANSI Ceramic Tile Standard: Provide Standard-grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.
2.2 TILE PRODUCTS
A. Tile Products: As indicated on Drawings for descriptions, color, size, and pattern. Tile products are to be supplied from Owner's national account vendor.
2.3 THRESHOLDS
A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.
B. Marble Thresholds: ASTM C 503/C 503M, with a minimum abrasion resistance of 12 according to ASTM C 1353 or ASTM C 241/C 241M and with honed finish.
2.4 WATERPROOF MEMBRANE
A. General: Manufacturer's standard product that complies with ANSI A118.10, and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
B. Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Mapelastic™ AquaDefense.
2.5 CRACK ISOLATION MEMBRANE
A. General: Manufacturer's standard product that complies with ANSI A118.12 for high performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
B. Polyester Reinforcing Fabric: Polyester fabric heat-fused on both sides to facings of nonwoven polyester; 0.013-inch nominal thickness.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Reinforcing Fabric.
2.6 SETTING MATERIALS
A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.02.
B. Modified Dry-Set Mortar (Thinset): ANSI A118.4 and ANSI A118.11.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Ultraflex™ 2.
C. Improved Modified Dry-Set Mortar (Thinset): ANSI A118.4F, ANSI A118.11, and ANSI A118.15F.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Ultraflex™ RS.
2.7 GROUT MATERIALS
A. Standard Cement Grout: ANSI A118.6.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Keracolor™ U.
b. MAPEI Corporation; Grout MAXimizer.
B. High-Performance Tile Grout: ANSI A118.7.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Ultracolor® Plus.
C. Water-Cleanable Epoxy Grout: ANSI A118.3.
1. Products: Subject to compliance with requirements, provide the following:
a. MAPEI Corporation; Kerapoxy CQ.
2.8 MISCELLANEOUS MATERIALS
A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
B. Metal Edge Strips: Angle or L-shape, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; as indicated on Drawings.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of Work.
1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.
3.3 CERAMIC TILE INSTALLATION
A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
E. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
F. Joint Widths: As indicated on Drawings.
G. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
H. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
I. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.
J. Metal Edge Strips: Install at locations indicated.
K. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
L. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.

END OF SECTION

SECTION 095123 - ACOUSTICAL TILE CEILINGS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Acoustical tiles for interior ceilings.
2. Fully concealed, direct-hung, suspension systems.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=7"Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
1.3 INFORMATIONAL SUBMITTALS
A. Product test reports.
B. Research reports.
C. Field quality-control reports.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: Class A according to ASTM E 1264.
2. Smoke-Developed Index: 50 or less.
2.2 ACOUSTICAL TILES ACT-1
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=349" Products: Subject to compliance with requirements, provide the following:
1. HYPERLINK "http://www.specagent.com/Lookup?uid=123457021887" CertainTeed Corporation; Performa® Vinylrock™.
B. Acoustical Tile Standard: Manufacturer's standard tiles of configuration indicated that comply with ASTM E 1264.
C. Color: As indicated on Drawings.
D. Light Reflectance (LR): 0.78.
E. Ceiling Attenuation Class (CAC): 38.
F. Edge/Joint Detail: Square.
G. Thickness: As indicated on Drawings.
H. Modular Size: As indicated on Drawings.
2.3 ACOUSTICAL TILES ACT-2
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=349" Products: Subject to compliance with requirements, provide the following:
1. HYPERLINK "http://www.specagent.com/Lookup?uid=123457021887" CertainTeed Corporation; RX Symphoy™ M.
B. Acoustical Tile Standard: Manufacturer's standard tiles of configuration indicated that comply with ASTM E 1264.
C. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=30"Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 50 percent.
D. Classification: Type IV.
E. Color: As indicated on Drawings.
F. Light Reflectance (LR): 0.90.
G. Ceiling Attenuation Class (CAC): 33.
H. Noise Reduction Coefficient (NRC): 0.70.
I. Edge/Joint Detail: Narrow reveal bevel corner.
J. Thickness: As indicated on Drawings.
K. Modular Size: As indicated on Drawings.
2.4 METAL SUSPENSION SYSTEM ACT-1
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=350" Products: Subject to compliance with requirements, provide the following:
1. CertainTeed Corp.; 15/16-inch classic aluminum capped hook.
B. Metal Suspension-System Standard: Manufacturer's standard, direct-hung, fully concealed, metal suspension system that complies with applicable requirements in ASTM C 635/C 635M.
C. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=253"Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 50 percent.
D. Direct-Hung, Double-Web Suspension System: Main and cross runners roll formed from and capped with cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation.
1. Structural Classification: Heavy-duty system.
2. Access: Downward and end pivoted or side pivoted, with initial access openings of size indicated below and located throughout ceiling within each module formed by main and cross runners, with additional access available by progressively removing remaining acoustical tiles.
2.5 METAL SUSPENSION SYSTEM ACT-2
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=350" Products: Subject to compliance with requirements, provide the following:
1. CertainTeed Corp.; 9/16-inch elite narrow stab.
B. Metal Suspension-System Standard: Manufacturer's standard, direct-hung, fully concealed, metal suspension system that complies with applicable requirements in ASTM C 635/C 635M.
C. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=253"Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 60 percent.
D. Direct-Hung, Double-Web Suspension System: Main and cross runners roll formed from and capped with cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation.
1. Structural Classification: Heavy-duty system.
2.6 ACCESSORIES
A. Attachment Devices: Size for five times the design load indicated in ASTM C 635/C 635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
2.7 METAL EDGE MOLDINGS AND TRIM
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=350" Products: Subject to compliance with requirements, provide the following:
1. CertainTeed Corp.
B. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations complying with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for of suspension-system runners.
PART 3 - EXECUTION
3.1 PREPARATION
A. Measure each ceiling area and establish layout of acoustical tiles to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width tiles at borders unless otherwise indicated.
B. Layout openings for penetrations centered on the penetrating items.
3.2 INSTALLATION OF SUSPENDED ACOUSTICAL TILE CEILINGS
A. Install suspended acoustical tile ceilings according to ASTM C 636/C 636M, and manufacturer's written instructions.
B. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.
1. Do not use exposed fasteners, including pop rivets, on moldings and trim.
C. Arrange directionally patterned acoustical tiles as indicated on reflected ceiling plans.

END OF SECTION

SECTION 096513 - RESILIENT BASE

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Vinyl base.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For adhesives, indicating VOC content.
2. Product Data: For sealants, indicating VOC content.
PART 2 - PRODUCTS
2.1 VINYL BASE VB-1
A. Products: Subject to compliance with requirements, provide the following:
1. Johnsonite; a Tarkett company.
B. Product Standard: ASTM F 1861, Type TV (vinyl, thermoplastic).
1. Group: I (solid, homogeneous).
2. Style and Location: Style B, Cove: Provide in areas with resilient floor coverings.
C. Minimum Thickness: 0.125 inch.
D. Height: As indicated on Drawings.
E. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
F. Outside Corners: Preformed.
G. Inside Corners: Preformed.
H. Colors and Patterns: As indicated on Drawings.
2.2 INSTALLATION MATERIALS
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.
B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
PART 3 - EXECUTION
3.1 PREPARATION
A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
C. Do not install resilient products until materials are the same temperature as space where they are to be installed.
D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.
3.2 RESILIENT BASE INSTALLATION
A. Comply with manufacturer's written instructions for installing resilient base.
B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
E. Do not stretch resilient base during installation.
F. Preformed Corners: Install preformed corners before installing straight pieces.
3.3 CLEANING AND PROTECTION
A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

END OF SECTION

SECTION 099110 - PAINTING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes surface preparation and the application of paint systems on the following substrates:
1. Concrete; exterior and interior.
2. Fiber-cement board; exterior.
3. Concrete masonry units (CMUs); exterior.
4. Steel and iron; exterior and interior.
5. Galvanized metal; exterior and interior.
6. Wood; interior.
7. Gypsum board; interior.
1.2 DEFINITIONS
A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
A. MPI Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.
1.3 ACTION SUBMITTALS
A. Sustainable Design Submittals:
1. Product Data: For paints and coatings, indicating VOC content.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, provide products by the following:
1. Sherwin-Williams Company (The).
B. Products: Subject to compliance with requirements, provide product listed in the Painting Schedule and National Account List for the paint category indicated.
2.2 PAINT, GENERAL
A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
B. Material Compatibility:
1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
C. VOC Content: For field applications, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 50 g/L.
3. Dry-Fog Coatings: 150 g/L.
4. Primers, Sealers, and Undercoaters: 100 g/L.
5. Rust-Preventive Coatings: 100 g/L.
6. Zinc-Rich Industrial Maintenance Primers: 100 g/L.
7. Pretreatment Wash Primers: 420 g/L.
8. Shellacs, Clear: 730 g/L.
9. Shellacs, Pigmented: 550 g/L.
D. Colors: As indicated in Drawings.
1. Ten percent of surface area will be painted with deep tones.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of Work.
B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
1. Concrete: 12 percent.
2. Fiber-Cement Board: 12 percent.
3. Masonry (Clay and CMUs): 12 percent.
4. Wood: 15 percent.
5. Gypsum Board: 12 percent.
C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
D. Proceed with coating application only after unsatisfactory conditions have been corrected.
1. Application of coating indicates acceptance of surfaces and conditions.
3.2 PREPARATION
A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
3.3 APPLICATION
A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
3.4 CLEANING AND PROTECTION
A. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
B. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
3.5 EXTERIOR PAINTING SCHEDULE
A. Concrete Substrates, Nontraffic Surfaces:
1. Surface prep: Sherwin Williams Concrete S-W 5.
2. Prime coat: Sherwin Williams Loxon Exterior Acrylic Masonry Primer.
3. Intermediate: Sherwin Williams A-100 Exterior Satin Latex.
4. Finish coat: Sherwin Williams A-100 Exterior Stain Latex.
B. Cement Board Substrates:
1. Surface prep: Sherwin Williams Concrete S-W 5.
2. Prime coat: Sherwin Williams Loxon Exterior Acrylic Masonry Primer.
3. Intermediate: Sherwin Williams A-100 Exterior Flat Latex.
4. Finish coat: Sherwin Williams A-100 Exterior Flat Latex.
C. CMU Substrates:
1. Surface prep: Block (cinder and concrete) Sherwin Williams S-W 3.
2. Prime coat: Sherwin Williams PM BLK FLR.
3. Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex.
4. Finish coat: Sherwin Williams A-100 Exterior Acrylic Latex.
D. Steel and Iron Substrates:
1. Surface prep: Hand tool cleaning Sherwin Williams S-W 14.
2. Prime coat: Sherwin Williams Kem Kromik Universal Metal Primer VOC.
3. Intermediate: Sherwin Williams DTM Acrylic Gloss Coating.
4. Finish coat: Sherwin Williams DTM Acrylic Gloss Coating.
E. Galvanized-Metal Substrates:
1. Surface prep: Galvanized metal Sherwin Williams S-W 10.
2. Prime coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer.
3. Intermediate: Sherwin Williams DTM Acrylic Gloss Coating.
4. Finish coat: Sherwin Williams DTM Acrylic Gloss Coating.
F. Wood Substrates: Wood trim.
1. Prime coat: Sherwin Williams All Surface Enamel Latex Primer.
2. Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex.
3. Finish coat: Sherwin Williams A-100 Exterior Acrylic Latex.
3.6 INTERIOR PAINTING SCHEDULE
A. Steel Substrates:
1. Surface prep: Hand tool cleaning Sherwin Williams S-W 14.
2. Prime coat: Sherwin Williams Kem Komick Universal Metal Primer VOC.
3. Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Egg Shell.
4. Finish coat: Sherwin Williams ProMar 200 Zero VOC Interior Egg Shell.
B. Galvanized-Metal Substrates:
1. Surface prep: Hand tool cleaning Sherwin Williams s-W 14.
2. Prime coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer.
3. Intermediate: Sherwin Williams ProMar 200 Zero VOC Flat.
4. Finish coat: Sherwin Williams ProMar 200 Zero VOC Latex Flat.
C. Wood Substrates: Exposed framing.
1. Prime coat: Sherwin Williams PrepRite 200 Interior Latex Primer.
2. Intermediate: Sherwin Williams ProMar 200 Zero VOC Flat.
3. Finish coat: Sherwin Williams ProMar 200 Zero VOC Flat.
D. Wood Substrates: Architectural woodwork.
1. Surface prep: Wood, interior Sherwin Williams S-W 24.
2. Prime coat: Sherwin Williams ProMar 200 Vero VOC Interior Latex Primer.
3. Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Latex.
4. Finish coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex.
E. Gypsum Board Substrates: Vertical surfaces.
1. Surface prep: Gypsum board, Sherwin Williams Interior and Exterior S-W 8.
2. Prime coat: Sherwin Williams ProMar 200 VOC Interior Latex Wall Primer.
3. Intermediate: Sherwin Williams ProMar 200 VOC Interior Latex.
4. Finish coat: Sherwin Williams ProMar 200 VOC Interior Latex.
F. Gypsum Board Substrates: Horizontal surfaces.
1. Prime coat: Sherwin Williams PrepRite Classic Interior Latex Primer.
2. Intermediate: Sherwin Williams ProMar 200 Zero Flat.
3. Finish coat: Sherwin Williams ProMar 200 Zero Flat.
G. Gypsum Board Substrates: Horizontal surfaces above 4 feet in restrooms.
1. Prime-coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Primer.
2. Intermediate: Sherwin Williams Paint Shield Interior Latex Eg-Shel.
3. Finish-coat: Sherwin Williams Paint Shield Interior Latex Eg-Shel.

END OF SECTION

SECTION 102113 - PHENOLIC-CORE TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Phenolic-core toilet compartments configured as toilet enclosures and urinal screens.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=7"Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
1.3 INFORMATIONAL SUBMITTALS
A. Product certificates.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: or less.
2. Smoke-Developed Index: 450 or less.
B. HYPERLINK "http://www.arcomnet.com/sustainable_design.aspx?topic=30"Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 10 percent.
C. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for toilet compartments designated as accessible.
2.2 PHENOLIC-CORE TOILET COMPARMENTS
A. HYPERLINK "http://www.specagent.com/Lookup?ulid=9485" Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. As noted on Drawings
B. Toilet-Enclosure Style: Overhead-braced and floor anchored.
C. Urinal-Screen Style: Wall anchored.
D. Door, Panel, Screen, and Pilaster Construction: Solid phenolic-core panel material with melamine facing on both sides fused to substrate during panel manufacture (not separately laminated), and with eased and polished edges. Provide minimum 3/4-inch-thick doors and pilasters and minimum 1/2-inch-thick panels.
E. Pilaster Shoes and Sleeves (Caps): Formed from stainless-steel sheet, not less than 0.031-inch nominal thickness and 3 inches high, finished to match hardware.
F. Brackets (Fittings):
1. Stirrup Type: Ear or U-brackets, chrome-plated zamac clear-anodized aluminum stainless steel chrome-plated brass.
G. Phenolic-Panel Finish:
1. Facing Sheet Finish: One color and pattern in each room.
2. Color and Pattern: As indicated on Drawings, with manufacturer's standard dark color core.
3. Edge Color: Manufacturer's standard.
2.3 HARDWARE AND ACCESSORIES
A. Hardware and Accessories: Manufacturer's standard operating hardware and accessories.
1. Material: Stainless steel.
2. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
B. Hardware and Accessories: Manufacturer's heavy-duty stainless steel operating hardware and accessories.
1. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
C. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.
D. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match the items they are securing, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless-steel, hot-dip galvanized-steel, or other rust-resistant, protective-coated steel compatible with related materials.
2.4 FABRICATION
A. Fabrication, General: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories where required for attachment of toilet accessories.
B. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
C. Door Size and Swings: Unless otherwise indicated, provide 24-inch-wide in-swinging doors for standard toilet compartments and 36-inch-wide out-swinging doors with a minimum 32-inch-wide clear opening for compartments designated as accessible.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
1. Maximum Clearances:
a. Pilasters and Panels: 1/2 inch.
b. Panels and Walls: 1 inch.
2. Stirrup Brackets: Secure panels to walls and to pilasters with no fewer than three brackets attached at midpoint and near top and bottom of panel.
a. Locate wall brackets so holes for wall anchors occur in tile joints.
b. Align brackets at pilasters with brackets at walls.
3.2 ADJUSTING
A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

END OF SECTION

SECTION 102600 - WALL AND DOOR PROTECTION

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Corner guards.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Sustainable Design Submittals:
1. Product Data: For adhesives, indicating VOC content.
2. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
1.3 INFORMATIONAL SUBMITTALS
A. Product certificates.
B. Material certificates.
C. Sample warranty.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.5 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of wall- and door-protection units that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Surface Burning Characteristics: Comply with ASTM E84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.
B. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1.
2.2 CORNER GUARDS
A. Surface-Mounted, Opaque-Plastic Corner Guards CG-1: Fabricated as one piece from acrylic-modified vinyl sheet; with formed edges; fabricated with 90- or 135-degree turn to match wall condition.
1. Products: Subject to compliance with requirements, provide the following:
a. Koroseal Interior Products, LLC; G815.
2. Mounting: Adhesive.
3. Color and Texture: As indicated by manufacturer's designations.
B. Surface-Mounted, Metal Corner Guards CG-3: Fabricated as one piece from formed or extruded metal with formed edges; with 90- or 135-degree turn to match wall condition.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
a. Babcock-Davis.
b. Construction Specialties, Inc.
c. Pawling Corporation.
2. Material: Stainless-steel sheet, Type 304.
a. Thickness: Minimum 0.0500 inch.
b. Finish: Directional satin, No. 4.
3. Material: Extruded aluminum, minimum 0.0625 inch thick, with clear anodic finish.
4. Material: Brass sheet, minimum 0.0500 inch thick, with fine satin finish.
5. Wing Size: Nominal 2-1/2 by 2-1/2 inches.
6. Corner Radius: 1/8 inch.
7. Mounting: Adhesive.
C. Surface-Mounted, Stainless-Steel Corner Guards CG-3.
2.3 MATERIALS
A. Plastic Materials: Chemical- and stain-resistant, high-impact-resistant plastic with integral color throughout; extruded and sheet material as required, thickness as indicated.
B. Adhesive: As recommended by protection product manufacturer.
1. Verify adhesives have a VOC content of 70 g/L or less.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Installation Quality: Install wall protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
B. Mounting Heights: Install wall and door protection in locations and at mounting heights indicated on Drawings.
C. Accessories: Provide splices, mounting hardware, anchors, trim, joint moldings, and other accessories required for a complete installation.
1. Provide anchoring devices and suitable locations to withstand imposed loads.
2. Where splices occur in horizontal runs of more than 20 feet, splice aluminum retainers and plastic covers at different locations along the run, but no closer than 12 inches apart.

END OF SECTION 102600

SECTION 102800 – TOILET ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Washroom accessories.
2. Childcare accessories.
1.2 INFORMATIONAL SUBMITTALS
A. Sample warranty.
1.3 CLOSEOUT SUBMITTALS
A. Maintenance data.
PART 2 - PRODUCTS
2.1 WASHROOM ACCESSORIES
A. Toilet Tissue (Roll) Dispenser:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. San Jamar; R3090TBK Oceans Reserve.
2. Description: Double-roll dispenser.
3. Mounting: Surface mounted.
4. Operation: Noncontrol delivery with standard spindle.
5. Capacity: Designed for one 9- or 10-1/2- inch and one 5-inch-diameter tissue rolls.
6. Material and Finish: ABS plastic, black pearl.
B. Automatic Paper Towel (Roll) Dispenser:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. San Jamar; T1490TBK Oceans Reserve.
2. Description: Automatic motion sensing mechanism with user-adjustable delay and paper towel length; battery powered.
3. Mounting: Surface mounted.
4. Minimum Capacity: 8-inch-wide, 800-foot-long roll.
5. Material and Finish: ABS plastic, black pearl.
6. Lockset: Tumbler type.
C. Automatic Liquid-Soap Dispenser:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. GoJo; 2730-12.
2. Description: Automatic dispenser with infrared sensor to detect presence of hands; battery powered; designed for dispensing soap in liquid or lather form.
3. Mounting: Vertically oriented, surface mounted.
4. Capacity: 1200 mL.
5. Low Battery Indicator: LED indicator.
D. Grab Bar:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. American Specialties, Inc.; 3800 Series.
2. Mounting: Flanges with concealed fasteners.
3. Material: Stainless steel, 0.05 inch thick.
a. Finish: Smooth, No. 4 finish (satin).
4. Outside Diameter: 1-1/4 inches.
5. Configuration and Length: Straight, 42 inches long; Straight, 36 inches long; Straight, 18 inches long.
E. Seat-Cover Dispenser:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. American Specialties, Inc.; 0477-SM.
2. Mounting: Surface mounted.
3. Minimum Capacity: 250 seat covers.
4. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
5. Lockset: Tumbler type.
2.2 CHILDCARE ACCESSORIES
A. Diaper-Changing Station:
1. Manufacturers: Subject to compliance with requirements, provide products by the following:
a. Rubbermaid; 7818-88.
2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
3. Mounting: Surface mounted, with unit projecting not more than 4 inches from wall when closed.
4. Operation: By pneumatic shock-absorbing mechanism.
5. Material and Finish: HDPE in manufacturer's standard color.
6. Liner Dispenser: Built in.
2.3 FABRICATION
A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

END OF SECTION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
TEL:847.298.6900

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
ARCHITECT
Nov. 18, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

ISSUE FOR PERMIT

FSR#05248

BUILDING TYPE / SIZE:	P14 LSR BS
RELEASE:	24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

CONSULTANT PROJECT #	23-3906.00
PRINTED FOR	ISSUE FOR PERMIT
DATE	11/18/24
DRAWN BY	PZ
CHECKED BY	JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-911

SECTION 104416 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 INFORMATIONAL SUBMITTALS
A. Warranty: Sample of special warranty.
1.4 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.
1.5 WARRANTY
A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Six years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS
A. Fire Extinguishers: Type, size, and capacity for each mounting bracket indicated.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into Work include, but are not limited to, the following:
a. Amerex Corporation.
b. Buckeye Fire Equipment Company.
c. Larsens Manufacturing Company.
2. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B.
B. Multipurpose Dry-Chemical Type: UL-rated 10 lb. nominal capacity, with monoammonium phosphate-based dry chemical in manufacturer's standard enameled container.
C. Wet Chemical Type in Stainless Steel Container: UL-rated 2A:K, 6-liter normal capacity, with potassium acetate-based agent in stainless steel container.
2.3 MOUNTING BRACKETS
A. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or red baked-enamel finish.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
a. Amerex Corporation.
b. Buckeye Fire Equipment Company.
c. Larsens Manufacturing Company.
B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
1. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
a. Orientation: Vertical.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Examine fire extinguishers for proper charging and tagging.
1. Remove and replace damaged, defective, or undercharged fire extinguishers.
B. Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.
1. Mounting Brackets: 54 inches above finished floor to top of fire extinguisher.
C. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION

SECTION 107313 - CANOPIES

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Flat metal canopies.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Shop Drawings:
1. Include plans, elevations, sections, mounting heights, and attachment details.
2. Detail fabrication and assembly of canopies.
3. Include diagrams for power, signal, and control wiring.
C. Delegated-Design Submittal: Submit design calculation signed by a Registered Professional Engineer. Design calculations shall state that the system design complies with the wind requirements of ANSI/ASCE 7-88, the stability criteria of applicable building code, and othe governing criteria.
1. For system engineering of components and system engineering of attachment to structure to resist environmental loads.
1.3 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.
1.4 QUALITY ASSURANCE
A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
B. Regulatory Requirements: Provide canopies and sun screens complying with agency or authority having jurisdiction and provide data as required by authority having jurisdiction.
1. Standards for wind pressure, snow load, and drifting snow load in accordance with current adopted form of the ICC or accepted requirements of local municipality.
2.2 CANOPY FRAME AND ACCESSORY MATERIALS
A. Steel:
1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
2. Steel Tubing: ASTM A 500/A 500M.
3. Galvanized Steel Tubing: ASTM A 787/A 787M.
4. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40).
B. Aluminum: Alloy and temper recommended by awning manufacturer for type of use and finish indicated and with not less than the strength and durability properties of alloy and temper required by structural loads.
1. Aluminum Plate and Sheet: ASTM B 209.
2. Aluminum Extrusions: ASTM B 221.
3. Extruded Structural Pipe and Round Tubing: ASTM B 429/B 429M, standard weight (Schedule 40).
4. Drawn Seamless Tubing: ASTM B 210.
C. Anchors, Fasteners, Fittings, Hardware, and Installation Accessories: Complying with performance requirements indicated and suitable for exposure conditions, supporting structure, anchoring substrates, and installation methods indicated. Corrosion-resistant or noncorrodible units; weather-resistant, compatible, nonstaining materials. Provide as required for canopy assembly, mounting, and secure attachment. Number as needed to comply with performance requirements and to maintain uniform appearance; evenly spaced. Where exposed to view, provide finish and color as selected by Architect from manufacturer's full range.
1. Expansion Anchors: Anchor bolt and sleeve assembly with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry assemblies and equal to four times the load imposed when installed in concrete as determined by testing according to ASTM E 488 conducted by a qualified independent testing and inspecting agency.
a. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.
D. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20.
E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
2.3 FLAT METAL CANOPIES
A. Fabrication: Canopies shall be pre-assembled in-shop, fascia, struts, corner assemblies, and roof deck shall be fastened into units ready to install.
1. Manufactures: Subject to compliance with requirements, provide products by the following:
a. AWNEX Inc.
2. Decking shall be extruded aluminum component with an interlocking and self-flashing design to provide structural integrity for the completed assembly.
3. Hanger Rods: Extruded aluminum pipe with finish to match canopies and dimensions as indicated on Drawings.
4. Drainage: Water shall sheet drain from covered surfaces.
5. Lighting: Recessed LED lighting.
B. Aluminum Finish: Baked-enamel or powder-coat finish complying with finish manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.
1. Color: As indicated on Drawings.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Install canopies at locations and in position indicated, securely connected to supports, free of rack, and in proper relation to adjacent construction. Use mounting methods of types described and in compliance with Shop Drawings and fabricator's written instructions.
B. Weld frame connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations.
C. Anchoring to In-Place Construction: Use anchors, fasteners, fittings, hardware, and installation accessories where necessary for securing awnings to structural support and for properly transferring load to in-place construction.
D. Corrosion Protection: Coat concealed surfaces of aluminum that come in contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.
E. Adjust hardware and moving parts to function smoothly, and lubricate as recommended by retractable-awning manufacturer.

END OF SECTION

SECTION 122413 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Manually operated roller shades with single rollers.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.3 INFORMATIONAL SUBMITTALS
A. Product certificates.
B. Product test reports.
1.4 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.
1.5 QUALITY ASSURANCE
A. Installer Qualifications: Fabricator of products.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Source Limitations: Obtain roller shades from single source from single manufacturer.
2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS
A. Basis-of-Design Product: Subject to compliance with requirements, provide Roll-A-Shade; 4" Top Fascia or comparable product by one of the following:
1. CWC Group.
2. National Window Treatments.
3. Window Interiors.
B. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
1. Chain-Retainer Type: Clip, jamb mount.
C. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
1. Roller Drive-End Location: Right side of interior face of shade.
2. Direction of Shadeband Roll: Regular, from back (exterior face) of roller.
D. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
E. Shadebands:
1. Shadeband Material: Light-filtering fabric.
2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
a. Type: Exposed with endcaps.
b. Color and Finish: As indicated on Drawings.
F. Installation Accessories:
1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller endcaps without exposed fasteners.
2. Endcap Covers: To cover exposed endcaps.
3. Installation Accessories Color and Finish: As indicated on Drawings.
2.3 SHADEBAND MATERIALS
A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 101 and 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
B. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Phifer.
2. Type: SheerWeave 4000.
3. Color: As indicated on Drawings.
2.4 ROLLER SHADE FABRICATION
A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1
B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:
1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch per side or 1/2-inch total, plus or minus 1/8 inch. Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch, plus or minus 1/8 inch.
C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible, except as follows:
1. Vertical Shades: Where width-to-length ratio of shadeband is equal to or greater than 1:4, provide battens and seams at uniform spacings along shadeband length to ensure shadeband tracking and alignment through its full range of movement without distortion of the material.
PART 3 - EXECUTION
3.1 ROLLER SHADE INSTALLATION
A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.
1. Opaque Shadebands: Located so shadeband is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.
B. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
C. Clean roller shade surfaces, after installation, according to manufacturer's written instructions.
D. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION

Chick-fil-A
5200 Buffington Road
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CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
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DES PLAINES, IL 60018
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I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH APPLICABLE LAWS, RULES, CODES AND ORDINANCES OF Lee's Summit, MO RELATING TO STRUCTURES AND BUILDINGS.

STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
Nov. 19, 2024
EXPIRES 12/31/25

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	11/19/24	ISSUE FOR PERMIT

ISSUE FOR PERMIT

CONSULTANT PROJECT # 23-3906.00
PRINTED FOR ISSUE FOR PERMIT
DATE 11/18/24
DRAWN BY PZ
CHECKED BY JF

SHEET
SPECIFICATIONS

SHEET NUMBER
A-912

A.B.	ANCHOR BOLT	
AC	ALASKA CEDAR (WOOD)	
ABT	ABOUT	
ABV	ABOVE	
ADD'L	ADDITIONAL	
ADJ.	ADJACENT	
ALT.	ALTERNATE	
AMP.	AMPLITUDE	
AGGR.	AGGREGATE	
APPROX.	APPROXIMATE(LY)	
ARCH.	ARCHITECT(URE)(URAL)	

B

BD	BOARD
BF	BRACED FRAME
B.F.	BOUNDARY FASTENER
B.L.	BOTTOM LOWER
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
B.N.	BOUNDARY NAIL(ING)
BOT.	BOTTOM
B.O.	BOTTOM OF
B.O.C.	BOTTOM OF CONCRETE
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
BPL	BASEPLATE
BRG	BEARING
B.S.	BOTH SIDES
BSMT	BASEMENT
B.U.	BOTTOM UPPER
BTNN	BETWEEN

C

C	CHANNEL (STEEL SHAPE)
CFS	COLD-FORMED STEEL
CIDH	CAST-IN-DRILLED HOLE
C.I.P.	CAST - IN-PLACE
C.J.	CONSTRUCTION JOINT
C.J.P.	COMPLETE JOINT PENETRATION (GROOVE WELD)
CLG	CEILING
CLR	CLEAR, CLEARANCE
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
COLL.	COLLECTOR
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCT (ING)(ION)
CONT.	CONTINUOUS
CONTR.	CONTRACT(OR)
CRVD.	CURVED
C.P.	COMPLETE PENETRATION (WELD)
CST.	CONSTRUCTION
CTR	CENTER, CENTRAL
CTSK	COUNTERSINK
CHT	COUNTERWEIGHT
CVN	CHARPY V-NOTCH

D

d	PENNY HEIGHT (NAIL)
D2L	NELSON WELDED REBAR
D.B.A.	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEMO.	DEMOLITION
DTL	DETAIL
DF	DOUGLAS FIR (WOOD)
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISCONT.	DISCONTINUOUS
DN	DOWN
DO	DITTO
DP	DEEP
DSA	CA DIV. OF STATE ARCH.
DWG	DRAWING

E

(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
E.G.	SUCH AS
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEVR	ELEVATOR
E.J.	EXPANSION JOINT
EMBED.	EMBEDMENT
E.N.	EDGE NAIL(ING)
E.O.	EDGE OF
E.O.S.	EDGE OF SLAB
E.P.S.	EXPANDED POLYSTYRENE
EQ.	EQUAL (EQUIVALENT)
EQ. SP.	EQUALLY SPACED
EQUIP.	EQUIPMENT
E.S.	EACH SIDE
E.W.	EACH WAY
E.W.E.F.	EACH WAY, EACH FACE
E/W	EAST/WEST
EXP.	EXPANSION
EXT.	EXTERIOR

F

FB	FLAT BAR (STEEL SHAPE)
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.F.	FAR FACE OR FIELD FASTENER
FIN.	FINISH(ED)
FLG.	FLANGE
FLR	FLOOR
F.N.	FIELD NAIL
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD OR FACE OF STEEL
F.P.	FULL PENETRATION (WELD)
FPRF	FIREPROOFING
FRMG	FRAMING
FRN	FURNITURE
F.S.	FAR SIDE
FT	FEET OR FOOT
FTG.	FOOTING

G

ga	GAUGE
GALV.	GALVANIZED
GAR.	GARAGE
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GEN.	GENERAL
GLB	GLUED LAMINATED TIMBER BEAM
GLC	GLUED LAMINATED TIMBER COLUMN
GR.	GRADE
GYP.	GYPSUM

H

(H), HORIZ.	HORIZONTAL
H.C.T.	HOLLOW CLAY TILE
HD	HOLDOWN
H.D.G.	HOT-DIP GALVANIZED
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HEADER
HGR	HANGER
HK	HOOK
H.S.	HEADED STUD OR HIGH STRENGTH (BOLT)
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT

I

I.D.	INSIDE DIAMETER
I.E.	THAT IS, SPECIFICALLY
I.F.	INSIDE FACE
IN.	INCH
INCL.	INCLUDED
INFO.	INFORMATION
INSP.	INSPECTION
INSUL.	INSULATION
INT.	INTERIOR
IRREG.	IRREGULAR

J

JCT.	JUNCTION
JST	JOIST
JT, JNT	JOINT

K

K	KIP (1,000 POUNDS)
K.D.	KILN DRIED
KSI	KIPS PER SQUARE INCH
KSF	KIPS PER SQUARE FOOT

L

L	ANGLE (STEEL SHAPE)
LB.	POUND
LGS	LIGHT-GAUGE STEEL
L.L.B.B.	LONG LEGS BACK TO BACK
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
LMBR	LUMBER
L.S.	LONG SLOTTED (HOLE)
LSL	LAMINATED STRAND LUMBER
LSLH	LONG SLOTTED (HOLE) W/ LONG AXIS HORIZ.
LSLT.	LONG SLOTTED (HOLE)
LSLV	LONG SLOTTED (HOLE) W/ LONG AXIS VERT.
LTWT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATED VENEER LUMBER
LWC	LIGHTWEIGHT CONCRETE

M

MANUF.	MANUFACTURER
MATL	MATERIAL
MAX.	MAXIMUM (NO MORE THAN; AT MOST)
M.B.	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL (STEEL SHAPE)
MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ.	MEZZANINE
MF	MOMENT FRAME
MFR	MANUFACTURER(R)
M.I.	MALLEABLE IRON
MIN.	MINIMUM (NO LESS THAN; AT LEAST)
MISC.	MISCELLANEOUS
MOD.	MODIF(Y)(ICATION)
MT	MISCELLANEOUS TEE (STEEL SHAPE)
MTL	METAL

N

N	NORTH
(N)	NEW
N/A	NOT APPLICABLE
N.F.	NEAR FACE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N&FS	NEAR & FAR SIDE
N.T.S.	NOT TO SCALE
NR	NEAR
N.S.	NEAR SIDE
N/S	NORTH/SOUTH
N.W.	NORMAL WEIGHT
NWC	NORMAL WEIGHT CONCRETE

O

O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OG	OPEN GRAIN (REDWOOD)
O.H.	OPPOSITE HAND
OPG	OPENING
OPNG	OPENING
OPP.	OPPOSITE
ORIG.	ORIGINAL
O.S.	OVERSIZED (HOLE)

P

P.A.F.	POWDER ACTUATED FASTENER(S)
PC, PCS	PIECE, PIECES
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
P.D.	POWDER DRIVEN
P.D.F.	POWDER DRIVEN FASTENER(S)
P.E.F.	(PLYWOOD) PANEL EDGE FASTENER
P.E.N.	(PLYWOOD) PANEL EDGE NAILING
PERF.	PERFORATED
PIPE-X	EXTRA STRONG PIPE
PIPE-XX	DOUBLE EXTRA STRONG PIPE
P.J.P.	PARTIAL JOINT PENETRATION (GROOVE WELD)
PL	PLATE
P.L.	PROPERTY LINE
PLWD.	PLYWOOD
PLYW'D	PLYWOOD
P.P.	PARTIAL PENETRATION (WELD)
PREFAB.	PREFABRICATE(D)
PRELIM.	PRELIMINARY
PRESTR.	PRESTRESSED
PREV.	PREVIOUS(LY)
PROJ.	PROJECT (ED) (ING) (ION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POINT
P.T.	POST-TENSION(ED)(ING)

R

(R)	REUSED
RAD.	RADIUS
RB	ROUND BAR (STEEL SHAPE)
R.C.	REINFORCED CONCRETE
REINF.	REINFORC(ED)(ING)
REBAR	REINFORCING BAR
REF.	REFERENCE
REQ'D	REQUIRED
RET.	RETAINING
REV.	REVIS(E)(ION)
RF	ROOF
RFG	ROOFING
RND	ROUND
R.O.	ROUGH OPENING
RW	REDWOOD

S

S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.B.	SOLID BLOCKING
S.C.D.	SEE CIVIL DRAWINGS
SCHED.	SCHEDULE
SDS	SIMPSON STRONG-DRIVE SCREW, INSTALLED PER ICC ESR-2236
SECT.	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SEOR	STRUCTURAL ENGINEER OF RECORD
SEP	SEPARATION
SFHCS	SOCKET FLAT HEAD CAP SCREW
SHT	SHEET
SHTG	SHEATHING
SIM.	SIMILAR
S.L.B.B.	SHORT LEGS BACK TO BACK
S.L.D.	SEE LANDSCAPE DRAWINGS
SLRS	SEISMIC LOAD RESISTING SYSTEM
S.M.D.	SEE MECHANICAL DRAWINGS
S.M.S.	SHEET METAL SCREW
S.O.G.	SLAB ON GRADE
SP	SOUTHERN PINE (WOOD)
SPC.	SPAC (ES)(ING)
S.P.D.	SEE PLUMBING DRAWINGS
SPEC(S).	SPECIFICATION(S)
SQ.	SQUARE
S.S.	STAINLESS STEEL
S.S.	SHORT SLOTTED (HOLE)
SSLT.	SHORT SLOTTED (HOLE)
ST	AMERICAN STANDARD TEE (STEEL SHAPE)
STAG.	STAGGER(ED)
STAGG.	STAGGER(ED)
STD	STANDARD
STFNR.	STIFFENER
STIR.	STIRRUP
STL	STEEL
STRUC.	STRUCTURAL
SUP.	SUPPORT
SUSP.	SUSPENDED
SYM.,SYMM.	SYMMETRICAL

T

T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
T.B.D.	TO BE DETERMINED
TD	TIE DOWN
THD	THREADED
THK	THICK(NESS)
THRD	THREADED
THRU	THROUGH
T.L.	TOP LOWER
T.N.	TOE NAIL
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE ELEVATION
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL
TS	TUBE STEEL
T.U.	TOP UPPER
TYP.	TYPICAL

U

U.O.N.	UNLESS OTHERWISE NOTED
URM	UNREINFORCED MASONRY

V

(V).	VERT.VERTICAL
VOL.	VOLUME
V.I.F.	VERIFY IN FIELD
V.W.M.	VERIFY W/ MANUF.

W

W/	WITH
WD	WOOD
WF	WIDE FLANGE
W.H.	WEB HORIZONTAL
W/IN	WITH IN
WKG	WORKING
W.O.	WHERE OCCURS
W/O	WITHOUT
W.P.	WORK POINT
WPFG	WATERPROOFING
WT	WIDE-FLANGE TEE (STEEL SHAPE)
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

X

XS	EXTRA STRONG (PIPE)
XXS DOUBLE	EXTRA STRONG (PIPE)

SPECIAL CHARACTERS

&	AND
∠	ANGLE (MEASUREMENT)
@	AT
℄	CENTER LINE
Ø	DIAMETER OR ROUND
//	PARALLEL
⊥	PERPENDICULAR
⊢ L	PROPERTY LINE
#	POUND OR NUMBER
±	TOLERANCE

OTHER ABBREVIATIONS (PRODUCT ABBREVIATIONS):

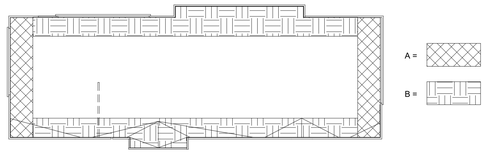
FOR WOOD FRAMING FASTENER AND CONNECTOR ABBREVIATIONS, SEE SIMPSON STRONG-TIE WOOD CONSTRUCTION CONNECTORS CATALOG (available at www.strongtie.com).

FOR POWDER-DRIVEN FASTENERS AND CONCRETE ANCHOR ABBREVIATIONS, SEE HILTI NORTH AMERICAN PRODUCT TECHNICAL GUIDE (available at www.us.hilti.com) AND SIMPSON STRONG-TIE ANCHOR SYSTEMS CATALOG (available at www.strongtie.com).

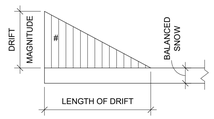
FOR LIGHT-GAUGE STEEL CONNECTOR ABBREVIATIONS, SEE STEEL NETHORK LIGHT STEEL FRAMING CONNECTION CATALOG (available at www.steelnetwork.com) AND SIMPSON STRONG-TIE COLD-FORMED STEEL CONNECTORS CATALOG (available at www.strongtie.com).

FOR ENGINEERED WOOD PRODUCT ABBREVIATIONS, SEE ILEVEL CATALOG (available at www.ilevel.com), LP BUILDING PRODUCTS CATALOG (available at www.lpcorp.com), REDBUILT CATALOG (available at www.redbuilt.com), AND STANDARD STRUCTURES, INC., CATALOG (available at www.standardstructures.com)

B4 STRUCTURAL ABBREVIATIONS



SNOW DRIFT INFORMATION: 20 PSF BALANCED SNOW LOAD		
SNOW DRIFT	DRIFT MAGNITUDE	LENGTH OF DRIFT
A	43.8 PSF TO 0 PSF	10'-6"
B	27 PSF TO 0 PSF	6'-6"



C2 SNOW DRIFT

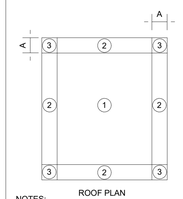
ROOF DESIGN CRITERIA					
DEAD LOADS:				LIVE LOADS:	= 20 PSF TC
ROOFING	=	1.5	PSF TC	WIND LOADS:	= SEE COMPONENTS AND CLADDING DIAGRAM
PLYWOOD	=	2.0	PSF TC		
TRUSSES	=	3.0	PSF TC	EQUIPMENT LOAD NOT INCLUDED	
CEILING	=	2.0	PSF BC	ADD 150# PER HANGER LOCATION OF HUNG KITCHEN SHELVING WHERE OCCURS	
INSULATION	=	1.5	PSF TC	ROOFING WEIGHT INCLUDES (1) LAYER RE-ROOFING	
MISC.	=	7.0	PSF BC	"TC" DENOTES LOAD IS APPLIED TO TRUSS TOP CHORD	
MEPF	=	3.0	PSF BC	"BC" DENOTES LOAD IS APPLIED TO TRUSS BOTTOM CHORD	
DEAD LOAD	=	20.0	PSF	*ADD 6 PSF DL BC AT DINING ROOM FOR SUSPENDED SOFFIT.	

B2 ROOF DESIGN CRITERIA

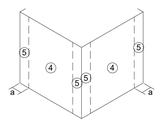
COMPONENTS & CLADDING ULTIMATE
EXTERNAL ROOF AND WALL PRESSURE LOADS (PSF)

WL = 109 MPH ULTIMATE[5]

Ultimate Design Wind Pressure (psf):			Effective Wind Area (sq ft)					
Walls:			**10**	**20**	**50**	**100**	**200**	**500**
Interior	Zone 4	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-26.1	-25.1	-23.6	-22.6	-21.5	-20.1
Edge	Zone 5	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-32.2	-30.0	-27.2	-25.1	-22.9	-20.1
Roof:			**10**	**20**	**50**	**100**	**200**	**500**
Interior	Zone 1	+	16.0	16.0	16.0	16.0	16.0	16.0
		-	-42.0	-39.2	-35.6	-32.8	-30.0	-26.4
Interior	Zone 1'	+	16.0	16.0	16.0	16.0	16.0	16.0
		-	-24.1	-24.1	-24.1	-24.1	-20.8	-16.3
Edge	Zone 2	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-55.4	-51.8	-47.1	-43.6	-40.0	-35.3
Corner	Zone 3	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-55.4	-51.8	-47.1	-43.6	-40.0	-35.3
Overhang:			**10**	**20**	**50**	**100**	**200**	**500**
Edge	Zone 2	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-51.4	-46.6	-40.3	-35.6	-30.8	-24.6
Corner	Zone 3	+	24.1	23.0	21.6	20.6	19.5	18.1
		-	-71.5	-63.1	-52.2	-43.9	-35.5	-24.6
Parapet:			**10**	**20**	**50**	**100**	**200**	**500**
Edge	Zone 2	+	76.7	71.7	65.2	60.2	55.2	48.7
		-	-45.3	-43.0	-40.0	-37.7	-35.4	-32.4
Corner	Zone 3	+	76.7	71.7	65.2	60.2	55.2	48.7
		-	-51.8	-48.3	-43.8	-40.3	-36.9	-32.4



ROOF PLAN



ISOMETRIC AT EXTERIOR WALL CORNER

NOTES:

1. A = 4.8 FT
2. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARD BUILDING, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
4. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES DESIGNLOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
5. TO OBTAIN GROSS ASD (WORKING STRESS) LOADS, MULTIPLY TABULATED VALUES BY 0.6.

B1 WIND LOADS

1. BUILDING STRUCTURE HAS BEEN DESIGNED TO 2018 INTERNATIONAL BUILDING CODE.
2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL BUILDING CODE.
3. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS BY THE CONTRACTOR.
4. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE PLYWOOD DECK ATTACHED TO THE WOOD FRAMING (ROOF AND SHEAR WALLS), AND THE CONCRETE FLOORS PLACED AND HAVE ATTAINED 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. BUILDING STRUCTURE AS SHOWN IN THIS SET OF CONTRACT DOCUMENTS HAS BEEN DESIGNED TO BE CONSTRUCTED USING A PANELIZED WALL SYSTEM.

STRUCTURAL DESIGN LOADS:

LOCAL REQUIREMENTS:
- ROOF DEAD LOAD: SEE B2/S-001
- ROOF LIVE LOADS: SEE B2/S-001

SNOW LOADS:
- GROUND SNOW LOAD: 20.0 PSF
- FLAT-ROOF SNOW LOAD: 20.0 PSF
- SNOW EXPOSURE FACTOR: 1.0
- SNOW LOAD IMPORTANCE FACTOR: 1.0
- THERMAL FACTOR: 1.0
- SLOPE FACTOR: 1.0

RAIN LOADS:
- RAIN INTENSITY- 60 MINUTE, 100 YEAR STORM [IN/HR]: 3.51

WIND LOADS:
- 3 SECOND GUST WIND SPEED (ULTIMATE): 109 MPH
- I = 1.0 1.0
- EXPOSURE: C
- INTERNAL PRESSURE COEFFICIENT (GCPI): +/-0.18
- COMPONENTS AND CLADDING ROOF PRESSURE: SEE B1/S-001

SEISMIC LOADS:
- OCCUPANCY CATEGORY II: II
- S_S = 0.100
- S_1 = 0.068
- S_{DS}= 0.087
- S_{D1}= 0.068
- SITE CLASS = C
- SEISMIC DESIGN CATEGORY = B
- SEISMIC IMPORTANCE FACTOR = 1.0
- RESPONSE MODIFICATION COEFFICIENT, R = 6.5
- SEISMIC RESPONSE COEFFICIENT (CS) = 0.013
- SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS
- DESIGN BASE SHEAR: 4.8 K

GEOTECHNICAL INFORMATION:
- REPORT PROVIDER: COOK, FLATT & STROBEL ENGINEERS
- REPORT NUMBER: 24-5632
- REPORT DATE: 11/12/2024

A1 DESIGN AND CODE INFORMATION

POWDER ACTUATED FASTENERS (SHOT PINS)

1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI INC. REFERENCE SHALL BE MADE TO THE PRODUCT TECHNICAL GUIDE: FOR ADDITIONAL INFORMATION ICC ESR 2269.
3. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U TYPE. LENGTH OF PIN SHALL BE AS REQ'D TO PENETRATE 1" INTO THE CONC BASE MATERIAL. MIN EDGE DISTANCE TO ANY CONC MATERIAL SHALL BE 3" AND MIN FASTENER SPACING SHALL BE 4" MINIMUM CONCRETE THICKNESS=4 1/2".
4. SHOT PINS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED LOADS IN TENSION OR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, & F PER ASCE 7 SECTION 13.4.5
5. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U TYPE WITH 0.157" SHANK DIAMETER AND 2" FASTENER LENGTH.

A2 SHOT PIN NOTES

HILTI KWIK BOLT-TZ2
ICC ESR #1917

NORMAL WEIGHT CONCRETE (145 PCF)				
SIZE	EMBEDMENT	MINIMUM MEMBER THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE (FT-LBS)
3/8"	2 5/16"	4"	4 3/8"	*25
1/2"	2 3/8"	4"	5 1/2"	40
5/8"	3 9/16"	5"	6 1/2"	60
3/4"	4 5/16"	6"	10"	110

NOTES
1. MINIMUM F'C = 2500 PSI
2. DESIGN BASED ON CRACKED CONCRETE.
3. VALUES FOR CARBON STEEL BOLT.
4. VALUES FOR SINGLE ANCHOR ACTION ONLY. SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE.
5. TEST TORQUE MUST BE REACHED WITHIN 1/2 TURN OF THE NUT. * (1/4 TURN OF NUT FOR 3/8" ANCHOR)
6. G.C. TO FOLLOW ALL PROCEDURES, TESTS AND INSPECTIONS SET FORTH WITHIN THE APPLICABLE MANUF. ICC REPORT.

A3 EXPANSION ANCHOR SCHEDULE

HIT-RE 500-V3 EPOXY ADHESIVE ANCHOR
ICC ESR #3814

NORMAL WEIGHT CONCRETE (145 PCF)					
REBAR/BOLT SIZE	MINIMUM EMBEDMENT*	MINIMUM MEMBER THICKNESS	MAX EMBEDMENT	MINIMUM SPACING AND EDGE DISTANCE	PULL TEST VALUE (LBS)
#3 OR 3/8	2 3/8"	3 5/8"	7 1/2"	1 7/8"	2050
#4 OR 1/2	2 3/4"	4"	10"	2 1/2"	2800
#5 OR 5/8	3 1/8"	4 5/8"	12 1/2"	3 1/8"	3200
#6 OR 3/4	3 1/2"	5 1/2"	15"	3 3/4"	3600
#7 OR 7/8	3 1/2"	5 1/2"	17 1/2"	4 3/8"	4000
#8 OR 1	4"	6 1/4"	20"	5"	4400

NOTES
1. MINIMUM F'C = 2500 PSI.
2. DESIGN BASED ON CRACKED CONCRETE.
3. VALUES FOR REBAR. -ASTM A615-GRADE 60 MIN.
4. VALUES FOR SINGLE ANCHOR ACTION ONLY.
5. ASSUMES ALL HOLES TO BE DRILLED BY A HAMMER DRILL WITH A CARBIDE BIT.
6. *FOR DEEPER EMBEDMENTS THE MINIMUM MEMBER THICKNESS MUST BE INCREASED BY THE SAME AMOUNT
7. PULL TEST ANCHORS IN ACCORDANCE WITH LISTED TESTING REPORT.
8. G.C. TO FOLLOW ALL PROCEDURES, TESTS AND INSPECTIONS SET FORTH WITHIN THE APPLICABLE MANUF. ICC REPORT

A4 ADHESIVE ANCHOR SCHEDULE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

BRITT, PETERS AND ASSOCIATES INC.
consulting engineers
101 Falls Park Dr
Suite 601
Greenville, SC 29601
(864) 271-8869
www.brittpeters.com
BPA Project No. 240741

11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

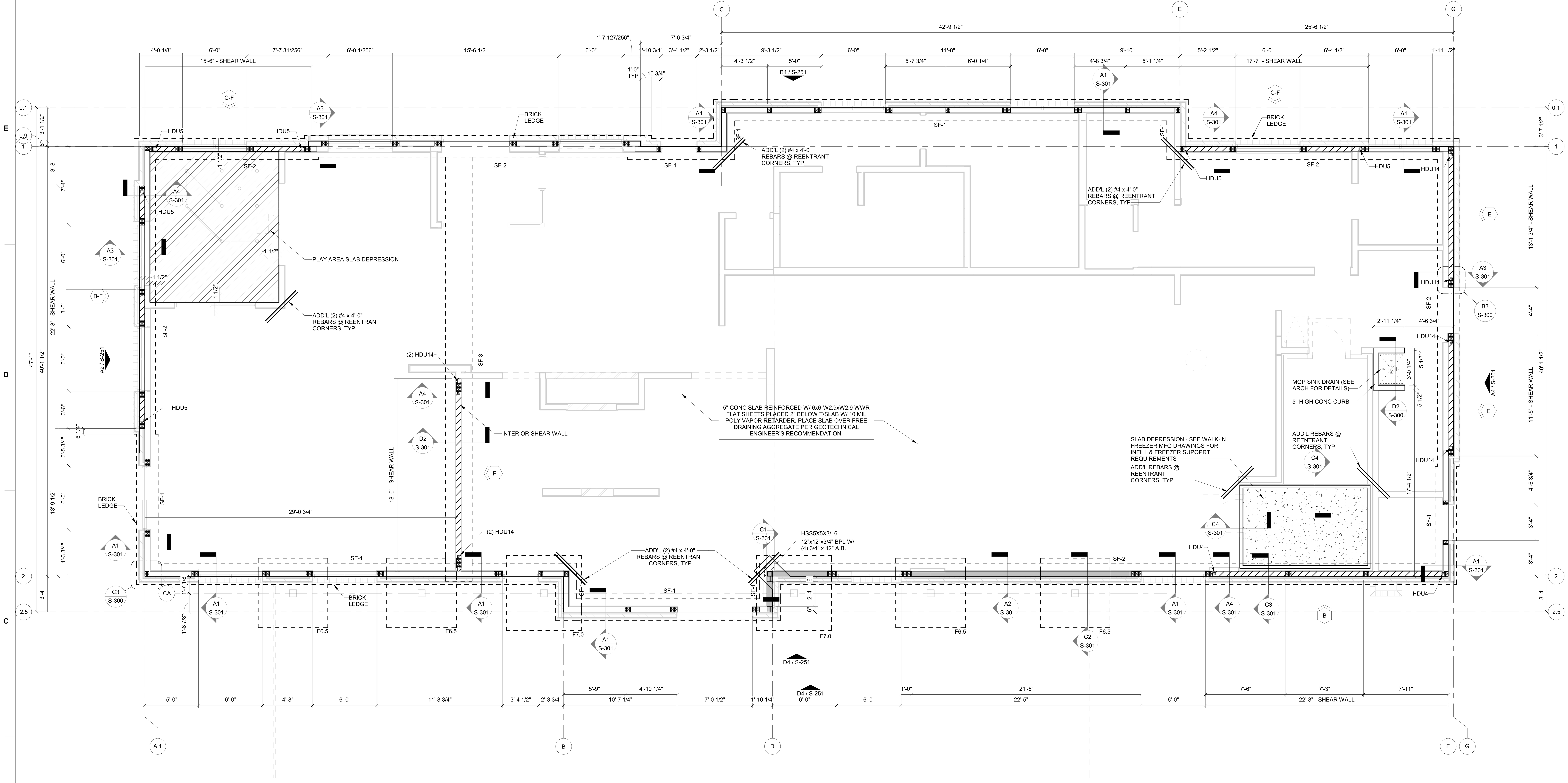
NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
STRUCTURAL NOTES

SHEET NUMBER
S-001



B1 FOUNDATION PLAN - PLAY
1/4" = 1'-0"

FOOTING SCHEDULE			
MARK	FOOTING SIZE	FOOTING DEPTH	REINFORCEMENT
F6.5	6'-6"x6'-6"	36"	#6@12" OC EACH WAY T&B
F7.0	7'-0"x7'-0"	36"	#6@12" OC EACH WAY T&B
FC36	3'-0" DIA	SEE A2 / S-302	SEE A2 / S-302

STRIP FOOTING SCHEDULE				
MARK	W (WIDTH)	T (DEPTH) MIN	RT (TRANSVERSE BARS)	RL (LONGIT BARS)
SF-1	2'-0"	3'-0"	#4 @ 12" OC STIRRUP	(4)#4 T&B
SF-2	2'-0"	3'-0"	#4 @ 12" OC STIRRUP	(5)#6 T&B
SF-3	2'-6"	4'-0"	#4 @ 12" OC STIRRUP	(9)#6 T&B

SHEAR WALL SCHEDULE

SYMBOL	PLYWOOD OR OSB	FASTENER	MINIMUM PENETRATION OF FASTENER	FASTENER SPACING		MIN WIDTH OF NAILED FACE AT SHEATHING PANEL EDGES	ANCHOR BOLT SIZES & SPACING (SEE NOTE 1)	REFERENCE DETAIL
				PANEL EDGES	FIELD			
B	15/32" (MIN.) STRUCT 1 APA RATED, EXP 1	8d NAIL	1 1/2"	4" O.C. STAGG	12" O.C.	2x	TITEN HD 5/8"x6" @ 24" O.C.	
C	15/32" (MIN.) STRUCT 1 APA RATED, EXP 1	8d NAIL	1 1/2"	3" O.C. STAGG	12" O.C.	2x	TITEN HD 5/8"x6" @ 16" O.C.	
E	15/32" (MIN.) STRUCT 1 APA RATED, EXP 1 BOTH SIDES	8d NAIL	1 1/2"	4" O.C. STAGG	12" O.C.	(2) 2x	TITEN HD 5/8"x6" @ 16" O.C. (SEE NOTE #1)	
F	15/32" (MIN.) STRUCT 1 APA RATED, EXP 1 BOTH SIDES	8d NAIL	1 1/2"	3" O.C. STAGG	12" O.C.	(2) 2x	TITEN HD 5/8"x6" @ 8" O.C. (SEE NOTE #1)	

NOTES:
1. PROVIDE STEEL PLATE WASHERS AT ANCHOR BOLTS (AS REQUIRED) PER C2 / S-600.
2. PROVIDE BLOCKING @ PLYWOOD SEAMS MATCHING FRAMING MEMBER SIZE SHOWN.
3. STUD SIZES SHOWN ABOVE ARE MINIMUMS AND MUST BE REVIEWED IN CORRESPONDENCE WITH ELEVATIONS.
4. SHEAR WALL SYMBOL # - F INDICATES FORCE TRANSFER SHEAR WALL, SEE A3 / S-600 .

FOUNDATION LEGEND	
(hatched box)	SHEAR WALL; SEE SHEAR WALL SCHEDULE
(shaded box)	DENOTES LIMITS OF FIRE RESISTANT CONSTRUCTION. MUST EXTEND MIN. 1'-6" BEYOND HOOD EXTENTS (TYP). SEE ELEVATIONS ON SHEET S251.
X	SHEAR WALL TYPE; SEE SHEAR WALL SCHEDULE SYMBOL SHOWN ON SIDE OF WALL TO RECEIVE SHEATHING
HDUx	POST HOLDOWN TYPE - HDUx REFERS TO HOLDOWN TYPE
SFXX, FXX	FOUNDATION TYPE;SEE SCHEDULE - SFXX REFERS TO STRIP FOOTING TYPE - FXX REFERS TO PAD FOOTING TYPE
	STEEL BASE PLATE

FOUNDATION NOTES:
1. BOTTOM OF EXTERIOR FTG = MIN 36" BELOW FINISH GRADE ELEV UNO - SEE DETAILS FOR MORE INFO
2. SEE ARCH DWG FOR ANY WALL LOCATIONS AND/OR DIMENSIONS NOT SHOWN.
3. SEE DETAIL **A1/S-300** FOR SLAB CONTROL JOINTS & **B1/S-211** FOR CONTROL JOINT LAYOUT.
4. SEE WALL ELEVATIONS ON **S-251** FOR STUD SPACING.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.
8. FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS: A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
9. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 3,000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 3,000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED. LIGHT POLE FOOTINGS ARE DESIGNED BASED ON A MINIMUM OF 150 PSF/FT SOIL PASSIVE PRESSURE AND MUST BE CONFIRMED BY A QUALIFIED GEOTECHNICAL ENGINEER.
10. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS.
11. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
12. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
13. AT NON-SHEAR EXTERIOR WALLS, SHEATHE & NAIL PER SHEAR WALL TYPE "A".
14. ALL PAD FOOTINGS ARE TO BE CENTERED UNDER POST U.O.N.
15. STRUCTURAL WALLS ARE TO BE CENTERED UNDER GRADE BEAM U.O.N.
16. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED OR NATURALLY DURABLE.
17. ALL EXTERIOR SHTG MUST HAVE A MINIMUM SPAN RATING OF 24/16.
18. CONTR TO COORD UTILITY STUB-UP LOCATIONS WITH WALL PANEL SHOP DRAWINGS TO ENSURE NO CONFLICTS WITH FRAMING

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STATE OF MISSOURI — DAVID F. DOBSON — NUMBER PE-2021046 — PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BP
RELEASE: 24.08
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- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
FOUNDATION PLAN

SHEET NUMBER
S-201

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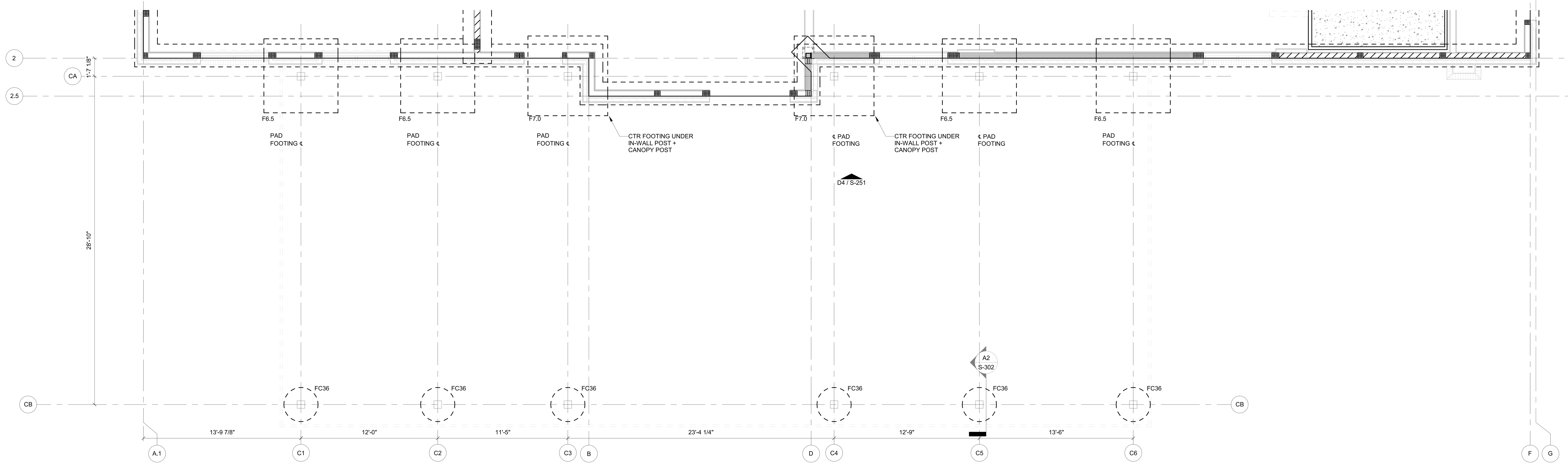

1 FOUNDATION PLAN - PLAY
1/4" = 1'-0"

FOOTING SCHEDULE			
MARK	FOOTING SIZE	FOOTING DEPTH	REINFORCEMENT
F6.5	6'-6"x6'-6"	36"	#6@12" OC EACH WAY T&B
F7.0	7'-0"x7'-0"	36"	#6@12" OC EACH WAY T&B
FC36	3'-0" DIA	SEE A2 / S-302	SEE A2 / S-302

CANOPY DESIGN NOTES:
DESIGN OF THE CANOPY STRUCTURE AND ITS ANCHORAGE TO FOUNDATION IS BY CANOPY MFG.
1. DESIGN OF THE FOUNDATIONS IS BASED UPON THE FOLLOWING NOMINAL CANOPY COLUMN LOADINGS:
   - VERTICAL LOADS:
     - D = 2.75 K DN
     - LR = 6.25 K DN
     - W = 4.50 K UP
   - LATERAL LOADS:
     - W = 0.85 K TRANSVERSE
     - E = 0.9 K EITHER DIRECTION
   - MOMENTS:
     - W = 8.5 K-FT TRANSVERSE (LFRS LATERAL LOAD)
     - E = 3.5 K-FT EITHER DIRECTION (LFRS LATERAL LOAD)
     - D = 9.0 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
     - LR = 20.5 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
     - W = 14.0 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
2. DESIGN OF THE FOUNDATIONS IS BASED UPON A MIN. 16" SQ CANOPY COLUMN BASE PLATE
3. ANY DEVIATIONS FROM THE CRITERIA LISTED ABOVE REQUIRE REVIEW AND APPROVAL BY SEOR

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CONSULTANT PROJECT # 23-3906.00
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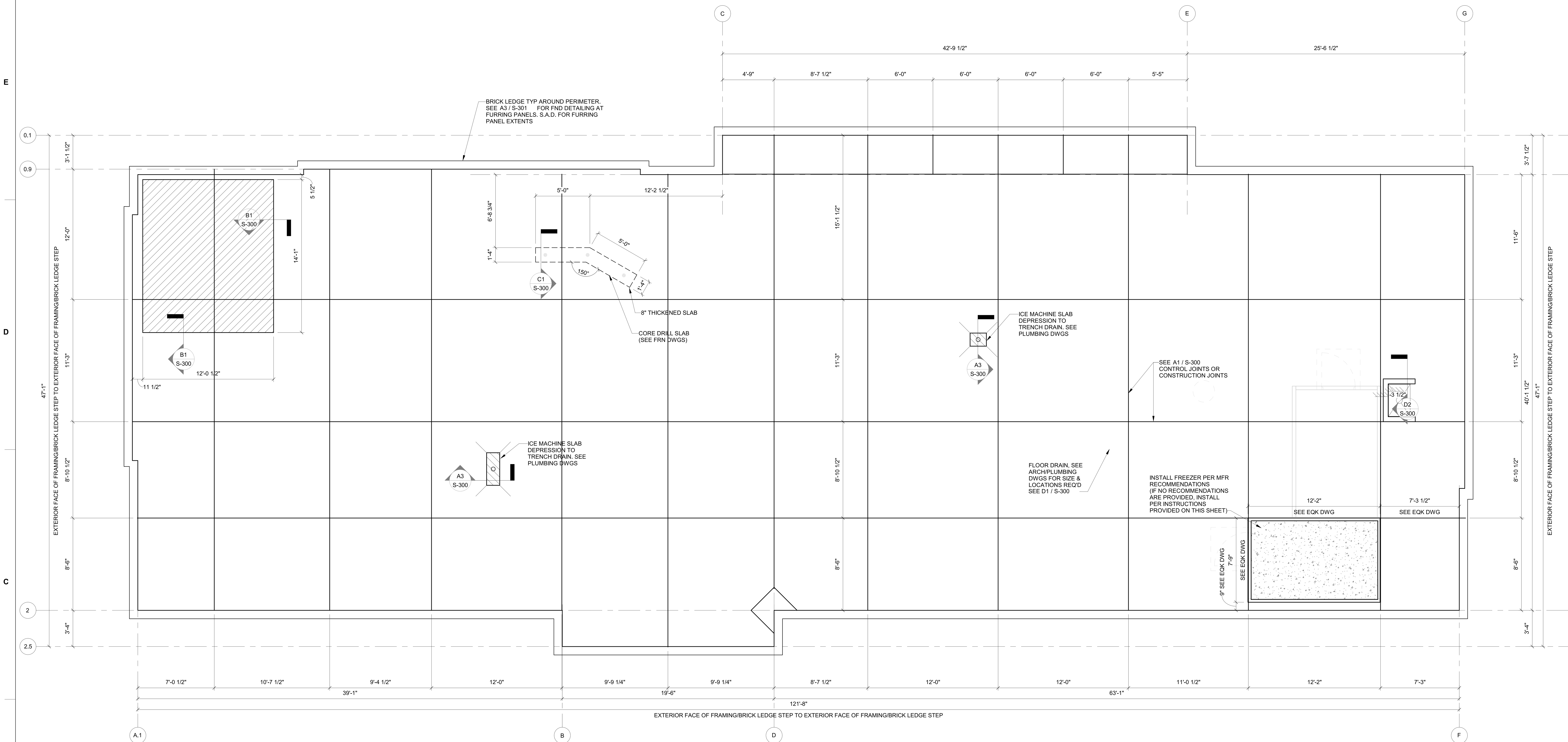
SHEET
CANOPY FOUNDATION

SHEET NUMBER
S-202



B1 SLAB & BRICK LEDGE LAYOUT PLAN
1/4" = 1'-0"

FREEZER SLAB INSTALLATION INSTRUCTIONS:

THESE SAMPLE INSTALLATION INSTRUCTION RECOMMENDATIONS HAVE BEEN PROVIDED TO THE OWNER BY THE FREEZER MFG AND ARE PROVIDED HERE FOR REFERENCE ONLY. FREEZER MFG MAINTAINS ULTIMATE RESPONSIBILITY FOR INSTALLATION PROCEDURE AND FREEZER FLOOR ASSEMBLY FOR THE CONDITIONS OF THIS PROJECT.

REQUIRED ITEMS (PROVIDED & INSTALLED BY CONTRACTOR):
(6) 4' x 8' x 2" SLAB INSULATION
(1) ROLL OF DUCT TAPE
(1) ROLL OF 10 MIL VAPOR RETARDER
(1) LOT OF 2X10 TREATED BOARDS RIPPED DOWN TO FIT 8" RECESS

INSTALL STEPS:
1. CONCRETE INSPECTION & PREPARATION.
   - ENSURE THAT CONCRETE "INSULATION PIT" IS FLAT AND AQUARE, FREE OF MOISTURE, AND CLEAR OF ALL CONSTRUCTION DEBRIS BEFORE INSTALLING (2) LAYERS OF 10 MIL VAPOR RETARDER SHEETS.
   - BROOM SWEEP OR SHOP VACUUM AS NECESSARY.
   - PROVIDE PHOTO OF CLEAN AND DRY PIT.
2. INSTALL (2) LAYERS OF10 MIL VAPOR RETARDER SHEETS, APPLY ONE LAYER PERPENDICULAR TO THE OTHER.
   - VAPOR RETARDER SHEETS TO BE INSTALLED IN BOTTOM OF PIT AND CONTINUE VERTICALLY TO GRADE LEVEL BEHIND PRESSURE TREATED (PT) MEMBERS.
   - PROVIDE MULIPLE PHOTOS OF VAPOR RETARDER ASSEMBLY BEFORE INSTALLING PT MEMBERS.

   NOTE: IT IS EXTREMELY **IMPORTANT** THAT VAPOR RETARDER IS NOT TORN, CUT OR COMPROMISED DURING INSTALLTION. THE GOAL TO MAINTAIN A "NON-PERMEABLE" ASSEMBLY.
3. INSTALL (2) 2X10 PRESSURE TREATED (PT) PERIMETER MEMBERS.
   - PTs SHALL BE CUT TO MATCH HEIGHT OF FINISHED CONCRETE SLAB.
   - PTs MUST BE LEVEL WITHIN 1/8" RISE OVER RUN PER 10FT.

   NOTE: PT'S MUST BE **EVEN** WITH FINISHED CONCRETE.
4. INSTALL TWO 2" THICK FOAMULAR 400 / R-5 PER INCH INSULATED PANELS (4" TOTAL THICKNESS)
   - TAPE ALL BUTT JOINTS.
   - 1ST LAYER OF 2" PANELS, THEN 2ND LAYER OF 2" PANELS TO BE ROTATED 90° TO BOTTOM PANEL. SEE FLOORLESS DETAIL ON COOLER PROVIDER DRAWINGS.
   - TAKE MULTIPLE PHOTOS OF SLAB INSULATION ASSEMBLY.
   - POUR 4" OF CONCRETE AND ALLOW TO CURE, SEE FOUNDATION DETAILS FOR SLAB REINFORCING.
   - ADD TILE AND GROUT PER ARCH. DWGS.

SLAB GENERAL NOTES:
1. REFER TO S300 & S301 FOR STRUCTURAL CONCRETE REINFORCING AND DETAILING INFORMATION.
2. SEE PLUMBING PLANS FOR FLOOR DRAIN TYPES, LOCATIONS, AND T.O. DRAIN ELEVATIONS.
3. SPRAY BUILDING WITH TERMITE TREATMENT PRIOR TO THE INSTALLMENT OF VAPOR RETARDER
4. PROVIDE BLOCK OUTS @ STEEL COLUMNS TYP
5. CONSTRUCTION JOINTS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. G.C. TO MAINTAIN A MAXIMUM 12'-6" DIMENSION AND MAXIMUM 1.5:1 ASPECT RATIO.

SLAB LEGEND	
(symbol)	PLUMBING FLOOR DRAINS (FOR REFERENCE ONLY); SEE PLUMBING DRAWING FOR EXACT LOCATIONS.
(symbol)	CLEANOUT; SEE ARCH DRAWINGS FOR PLACEMENTS
(symbol)	ICE MACHINE SLAB DEPRESSION (TRENCH DRAIN); SEE PLUMBING DRAWINGS
-X'-X"	SLAB DEPRESSION; SEE FOUNDATION PLAN FOR ADDITIONAL INFO.
(symbol)	CONSTRUCTION JOINT

TERMITE TREATMENT NOTES:
NATIONAL ACCOUNT TO PRE-TREAT SLABS: RENTOKIL
ACCOUNT CONTACT:
EMAIL: CFA@RENTOKIL.COM
PHONE: (877) 764-0007

PROCEDURE:
1. GENERAL CONTRACTOR SHALL CONTACT ACCOUNT REPRESENTATIVE 48-72 HOURS BEFORE THE SLAB IS TO BE PLACED.
2. PROVIDE THE LOCATION NUMBER, FULL PROJECT ADDRESS, CFA STORE NUMBER, SQUARE FOOTAGE OF AREA TO BE TREATED, CONTACT INFO AND BILLING ADDRESS OF THE GENERAL CONTRACTOR.
3. AFTER TREATMENT, RENTOKIL WILL CREATE A REPORT OF SERVICE UNDER THE LOCAL STATE GUIDELINES AND WILL PROVIDE THAT TO THE GENERAL CONTRACTOR THAT SHOULD THEN PROVIDE THE REPORT TO CFA.

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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
SLAB & BRICK LEDGE LAYOUT PLAN
SHEET NUMBER
S-211

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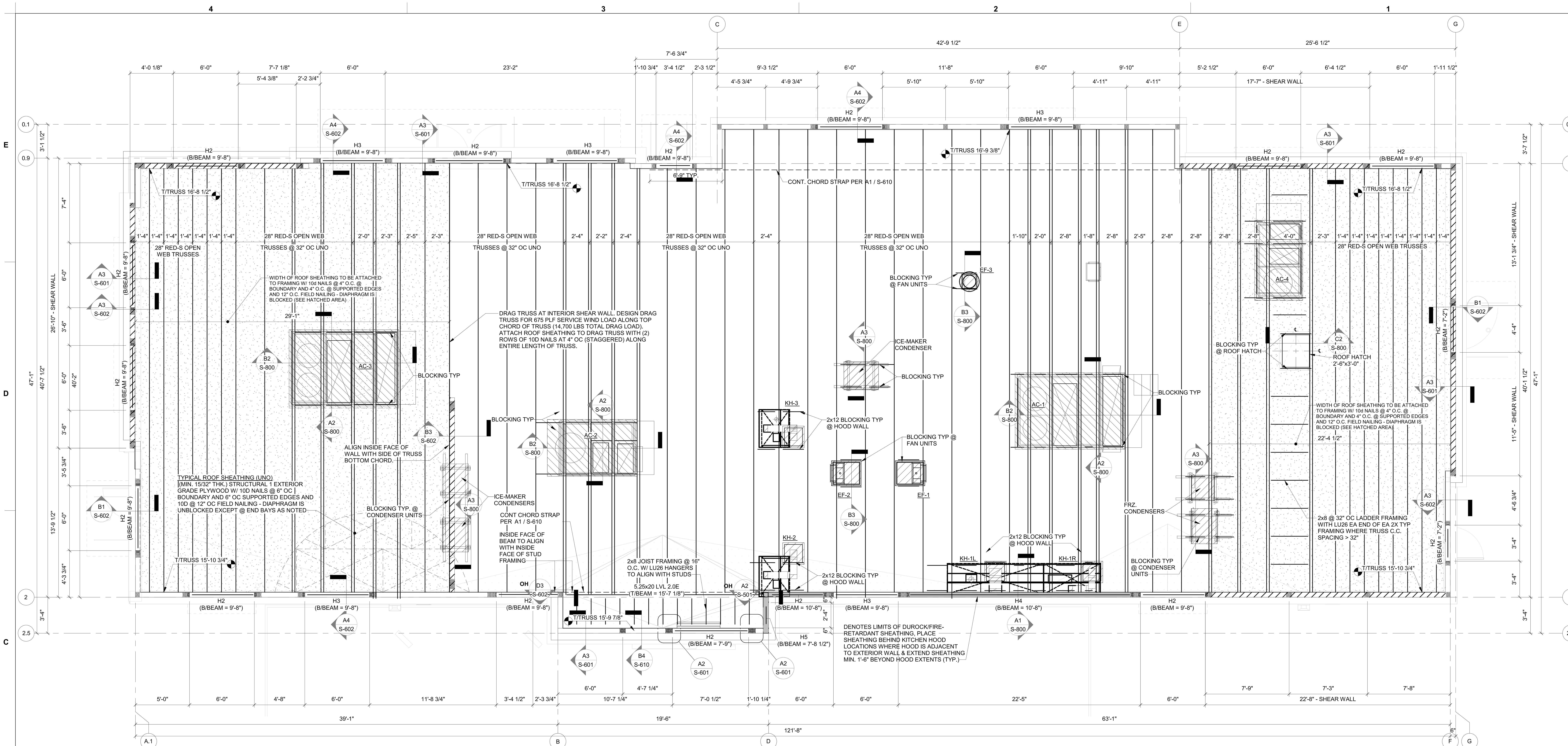


C4 ROOF FRAMING PLAN
1/4" = 1'-0"

MECHANICAL SCHEDULE					
RTU DESIGNATION	WEIGHT (LBS)	HOOD DESIGNATION	WEIGHT (LBS)	EXHAUST DESIGNATION	WEIGHT (LBS)
AC-1	2,552	KH-1L	663	EF-1	503
AC-2	2,552	KH-1R	462	EF-2	510
AC-3	2,402	KH-2	262	EF-3	56
AC-4	999	KH-3	150	CONDENSER	340

NOTES:
1. VERIFY ALL WEIGHTS, LOCATIONS, CURBS, AND OPENINGS WITH MEP AND MFR.
2. SEE DETAILS FOR SIZES OF BLOCKING REQ'D.

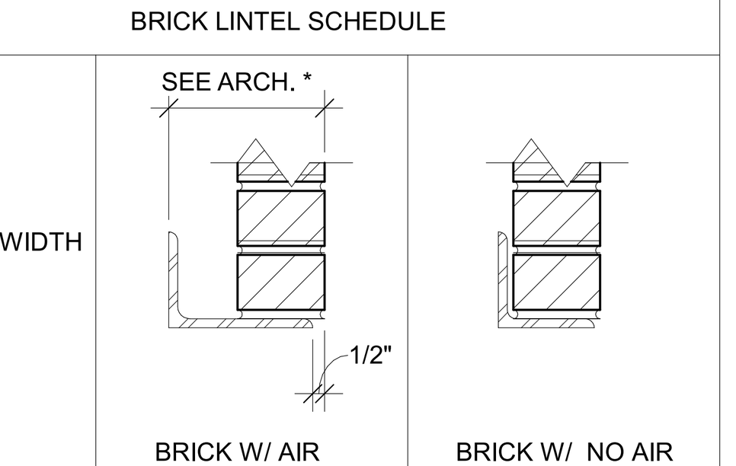
HEADER SCHEDULE				
TYPE MARK	HEADER SIZE	JACK STUDS	KING STUDS	COMMENTS
H1	(3) 2x6	(1) 2x	(3) 2x	SEE NOTE #2
H2	(3) 2X12	(2) 2x	(4) 2x	SEE NOTE #2
H3	5.25"x16" LVL-2.0E	(2) 2x *	(4) 2x	SEE NOTE #3, #4
H4	5.25"x24" LVL-2.0E	(3) 2x	(3) 2x	SEE NOTE #3
H5	(2) 600S200-54 BOXED W/ 600T150-54 TOP & BOT	SEE PLAN	SEE PLAN	SEE NOTE #5

NOTES:
1. SEE FRAMING NOTES FOR INSTALLATION REQUIREMENTS.
2. ATTACH TO JAMB WITH (2)A34 BOT AND (1) A34 TOP
3. ATTACH TO 2x JAMB WITH (2)A34 BOT AND (1) A34 TOP
4. * DENOTES NO JACK STUD AT HSS POST LOCATION.
5. ATTACH WITH (4) SIMPSON L50 TO POST. SILL SHALL BE (1) 600T125-43 TRACK.
6. ATTACH (1) 2x6 FLATWISE TOP AND BOTTOM OF ALL HEADERS.

ROOF FRAMING NOTES:
(+XX'-X") INDICATES TOP OF JOIST OR TRUSS ELEVATION.
1. SEE DETAIL B2 / S-610 FOR ROOF NAILING.
2. SEE C1 / S-800 FOR TYP. HANGER DETAILS.
3. TRUSS AND JOIST MANUFACTURER SHALL DESIGN AND PROVIDE ALL JOISTS AND ERECTION, PERMANENT, AND UPLIFT BRIDGING.
4. SPLICE CHORDS PER DETAIL C1 / S-600
5. OPEN WEB TRUSSES AND CENTRAL GIRDER SHALL BE BY REDBUILT, LLC 740-513-4547 - CONTACT: JAKE SHEPHERD. OPEN WEB TRUSSES SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC ESR-1774.
6. DIMENSIONS THIS SHEET ARE TO OUTSIDE FACE OF WOOD STUD.
7. ROOF TOP UNIT DIMENSIONS ARE TO INSIDE FACE OF CURB/INSIDE FACE OF WOOD STUD.
8. FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON A4 / S-600.
9. ALL ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
10. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH ASACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.
11. ALL DIMENSIONS TO ROOF TOP UNITS ARE APPROXIMATE. THE UNITS AND CURBS MUST BE LOCATED TO ALLOW PENETRATIONS TO AVOID CONFLICTS WITH FRAMING MEMBERS.
12. SIMPSON CONNECTORS APPLIED TO STEEL COLUMNS SHALL BE SHOP WELDED.
13. ALL WELDS SHALL BE SHOP WELDS WHERE POSSIBLE. FIELD WELDS ARE SUBJECT TO SPECIAL INSPECTIONS.
14. SEE S-001_W FOR COMPONENTS AND CLADDING WIND LOADS FOR ROOF DESIGN.
15. AT ALL ROOF DUCTWORK PENETRATIONS, PROVIDE 4" MINIMUM ROOF DECK OPENING AROUND DUCT DROPS TO ACCOMMODATE INSULATION.
16. TRUSS MFR: WHERE INDICATED, DESIGN TOP CHORD OF THE TRUSS FOR ADDITIONAL TENSION/COMPRESSION LOAD = 3.5 KIPS (MAXIMUM EQ OR WIND LOAD IN ASD).
19. ALL IN-WALL POST TOP ELEVATIONS ARE AT BOTTOM OF PARAPET TOP PLATE U.O.N.
20. REFER TO ARCHITECTURAL DWGS FOR ALL DIMENSIONS NOT LISTED HERE.
21. SEE SHEET S-251 FOR WALL FRAMING SPECIFICATIONS
22. STRUCTURAL CLIPS NOTED ON PLANS ARE REQUIRED AT EA. END OF BEAM. EX. (1) A34 TOP / (2) A35 BOT WOULD REQUIRE A TOTAL OF (2) A34 ON TOP AND (4) A35 ON BOT.

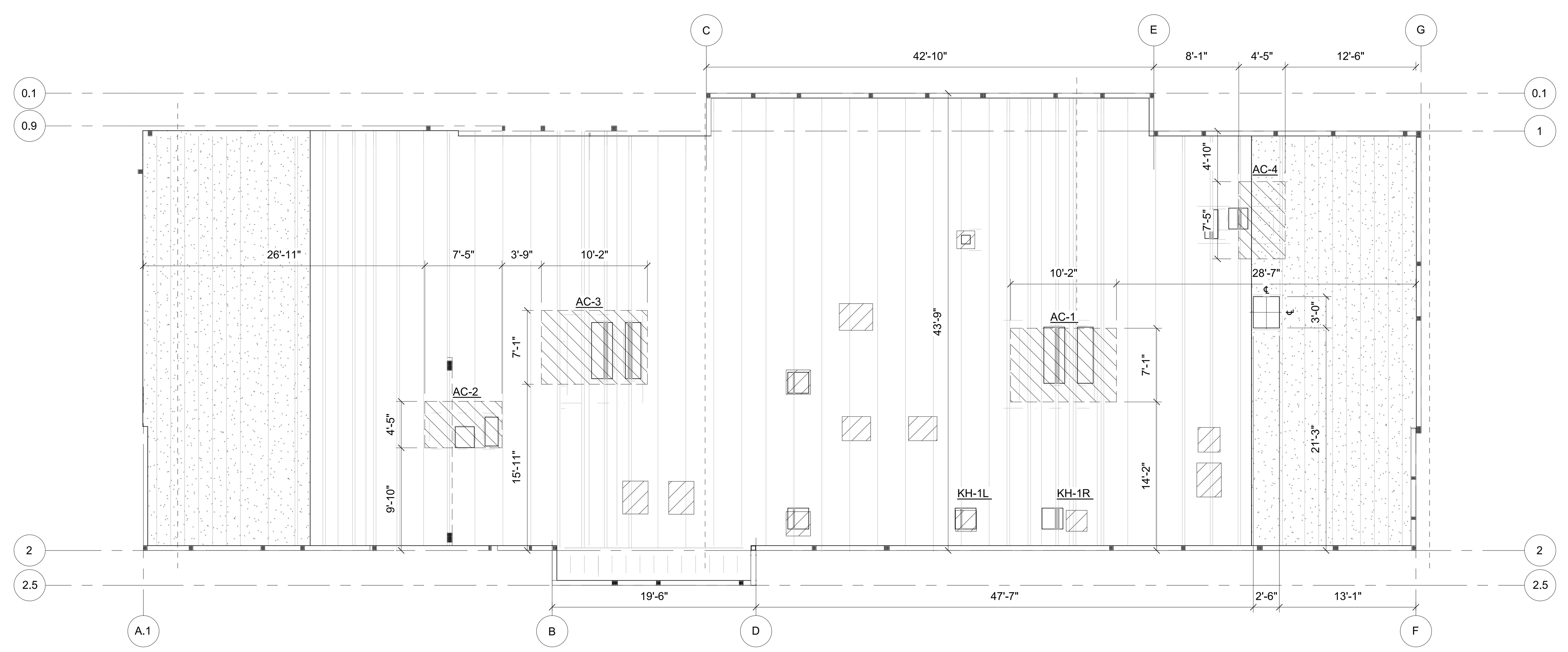
GENERAL NOTE:
1. WALL AND PARAPET FRAMING MAY BE PANELIZED. REFER TO SHOP DRAWINGS FOR CONSTRUCTION DETIALS AND SPECIFICATIONS.
2. COORDINATE WITH ARCHITECTURAL, PLUMBING, AND ELECTRICAL DRAWINGS TO AVOID CONFLICTS IN WALL IF ADDITIONAL STRUCTURE MUST BE ADDED FOR PANELIZATION.

BRICK LINTEL SCHEDULE



OPENING WIDTH			
MIN.	MAX.	BRICK W/ AIR SPACE, SEE ARCH.	BRICK W/ NO AIR SPACE, SEE ARCH.
0'-8"	5'-0"	L5 x 5 x 5/16"	L4 x 4 x 1/4"
>5'-0"	6'-3"	L5 x 5 x 5/16"	L4 x 4 x 5/16"
>6'-3"	6'-9"	L5 x 5 x 5/16"	L4 x 4 x 3/8"
>6'-9"	7'-9"	L5 x 5 x 5/16"	L4 x 4 x 7/16"
>7'-9"	8'-3"	L5 x 5 x 3/8"	L4 x 4 x 1/2"
>8'-3"	8'-9"	L5 x 5 x 3/8"	L4 x 4 x 5/8"
>8'-9"	9'-0"	L5 x 5 x 7/16"	L4 x 4 x 5/8"
>9'-0"	9'-6"	L5 x 5 x 7/16"	L4 x 4 x 3/4"
>9'-6"	10'-3"	L5 x 5 x 1/2"	N/A
>10'-3"	11'-6"	L5 x 5 x 5/8"	N/A
>11'-6"	12'-3"	L5 x 5 x 3/4"	N/A
>12'-3"	13'-0"	L5 x 5 x 7/8"	N/A

NOTES:
1. * ANGLE HORIZONTAL LEG VARIES BASE ON AIR SPACE DIMENSION. 5/8" MAX BRICK OVERHANG.
2. PROVIDE 8" MIN. BEARING AT EACH END OF OPENING, U.N.O.
3. "L" INDICATES ANGLE OR BENT PLATE
4. LOOSE LINTEL SCHEDULE DOES NOT APPLY TO LINTELS WHERE BRICK HEIGHT ABOVE LINTEL IS LESS THAN 1/2 THE SPAN OF THE LOOSE LINTEL.



A4 MECHANICAL EQUIPMENT LOCATION PLAN W/ TRANE UNITS
1/8" = 1'-0"

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BUILDING TYPE / SIZE: P14 LSR BP
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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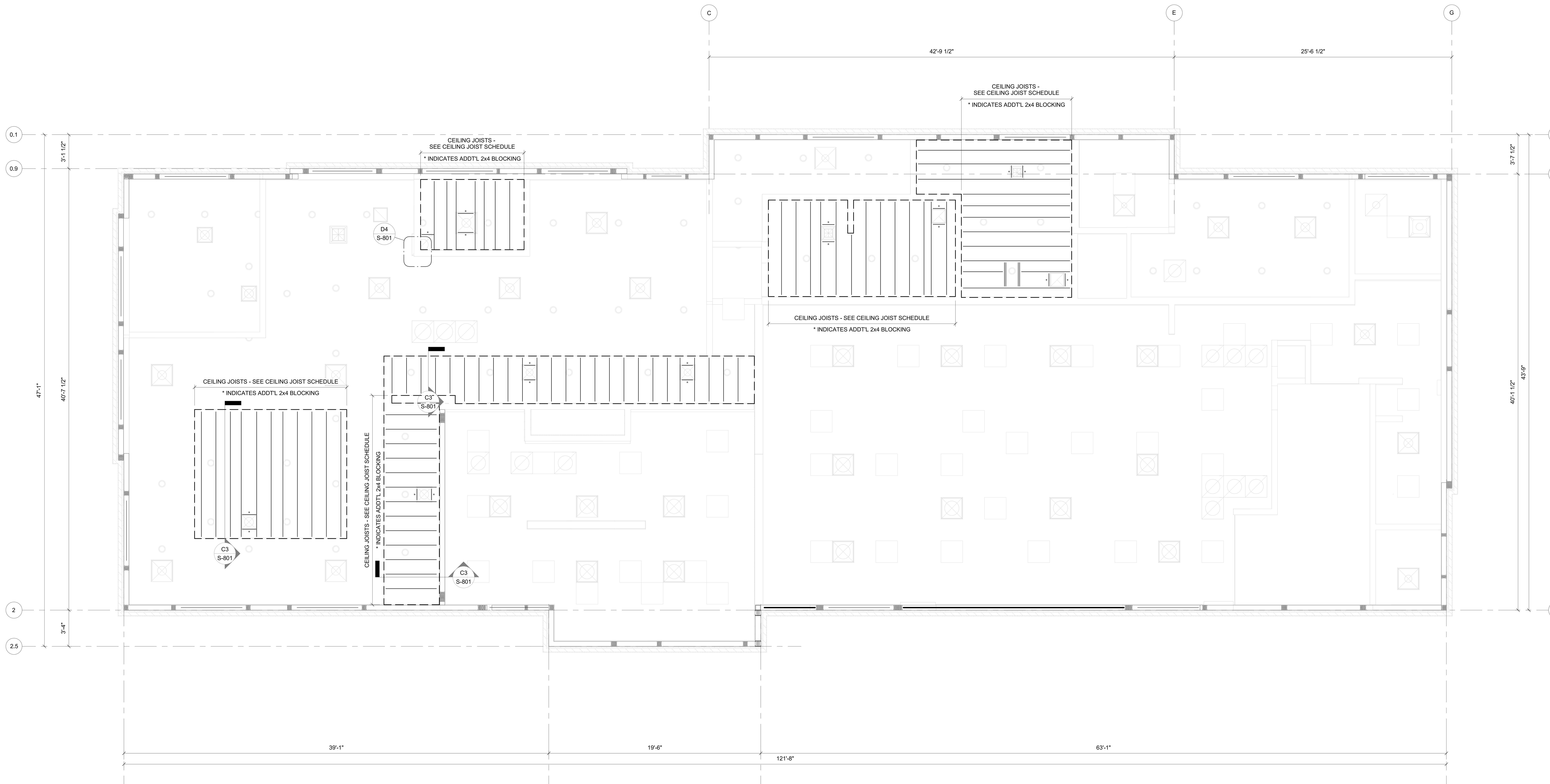
CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
ROOF FRAMING PLAN - TRANE

SHEET NUMBER
S-231



B1 DROPPED CEILING PLAN
1/4" = 1'-0"

WOOD CEILING JOIST SCHEDULE					
JOIST SPAN, X [FT]		JOIST SIZE	SPACING [IN O.C.]	BLOCKING LOCATION	SIMPSON HANGER REQ.
≤ X	X <				
0	8-1/2	2x6	16	N/A	LU26/LUS26
8-1/2	10-1/2	2x6	16	MID SPAN	LU26/LUS26
10-1/2	13	2x8	16	MID SPAN	LU26/LUS26
13	14-1/4	2x8	16	THIRD SPAN	LU26/LUS26
14-1/4	15	2x10	16	MID SPAN	LU28/LUS28
15	16-3/4	2x10	16	THIRD SPAN	LU28/LUS28

NOTES:
1. SEE B4 / S-801 FOR TYPICAL CEILING JOIST TO WALL/HEADER CONNECTION
2. CEILING JOIST DESIGNED AS DFL#2. MAY BE SUBSTITUTED FOR LUMBER W/ S.G.= 0.5 OR GREATER

LGS CEILING JOIST SCHEDULE [1]					
JOIST SPAN, X [FT]		JOIST SIZE	SPACING [IN O.C.]	BRIDGING [2] LOCATION	WEB STIFFENER.
≤ X	X <				
0	15	600S162-33	16	MID SPAN	N/A
15	17	600S162-43	16	MID SPAN	N/A
17	19.5	600S162-43	16	THIRD SPAN	N/A
19.5	20.5	600S162-54	16	THIRD SPAN	N/A

NOTES:
1. FOR TYPICAL CEILING JOIST TO WALL/HEADER CONNECTION SEE A4/S-801 A4 / S-801 CEILING JOIST DESIGNED AS FY = 50KSI. MAY BE SUBSTITUTED FOR FY = 33 KSI. NOTIFY EOR FOR REVISED MIN AND MAX SPANS.
2. FOR JOIST FRAMING BRIDGING SEE .
3. WHERE ADDITIONAL JOIST BLOCKS ARE REQUIRED, FASTEN BLOCKS TO ADJACENT JOISTS PER C4 / S-801.

LEGEND:	
(dashed / solid line)	INDICATES DROPPED CEILING AND RIM JOISTS - SEE ARCH FOR CEILING EXTENTS
◎	INDICATES LIGHT FIXTURE - SEE ARCH
⊠	INDICATES SUPPLY DIFFUSER - SEE MECH COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE
◪	INDICATES RETURN/EXHAUST GRILLE - SEE MECH COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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BPA Project No. 240741

STATE OF MISSOURI
DAVID F. [illegible]
NUMBER
PE-2021[illegible]
PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BP
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

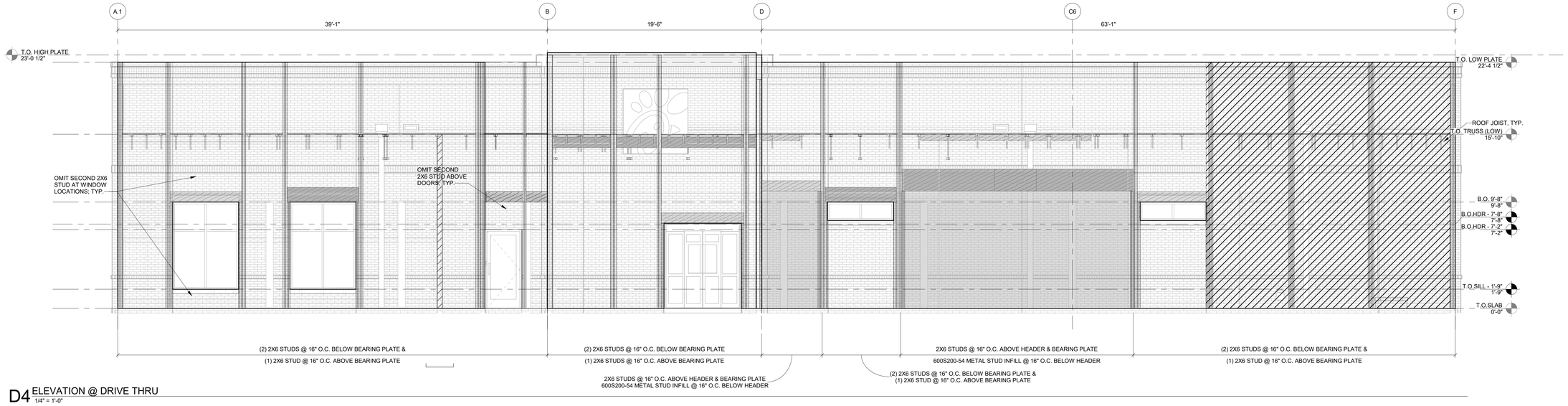
- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

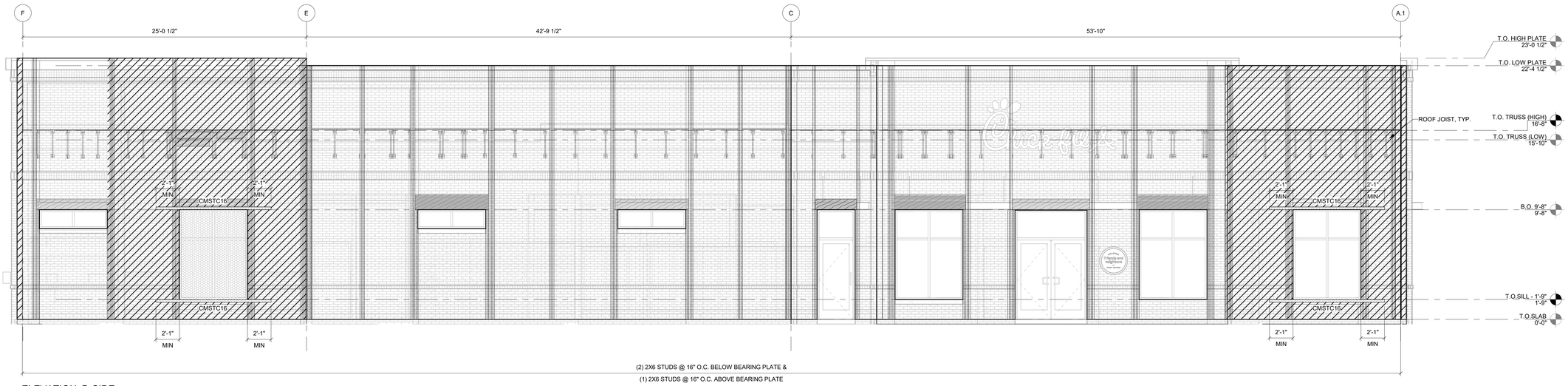
SHEET
DROPPED CEILING PLAN

SHEET NUMBER
S-241

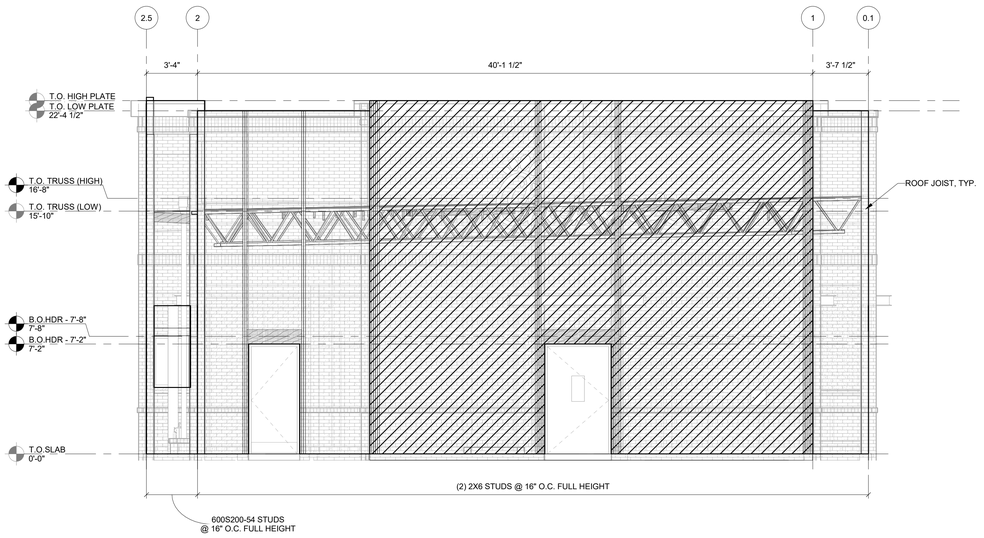
11/18/2024 10:26:13 PM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR/05248_Hwy 50 & SR 291 (MO) FSU_STR.rvt
20-LSR-05248-S-241-DROPPED CEILING PLAN



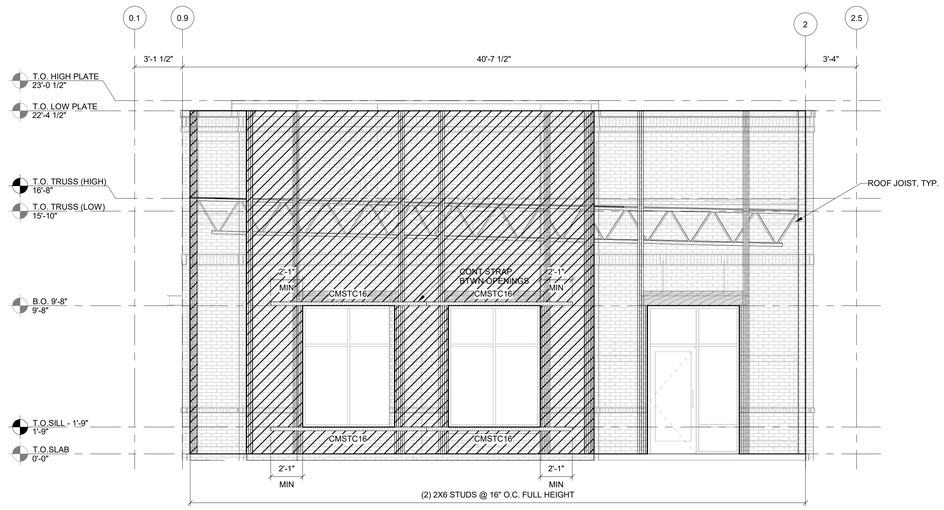
D4 ELEVATION @ DRIVE THRU
1/4" = 1'-0"



B4 ELEVATION @ SIDE
1/4" = 1'-0"



A4 ELEVATION @ REAR
1/4" = 1'-0"



A2 ELEVATION @ FRONT
1/4" = 1'-0"

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BPA Project No. 240741

STATE OF MISSOURI
DAVID F. DAWSON
NUMBER PE-2021046470
PROFESSIONAL ENGINEER

11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BP
RELEASE: 24.08
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PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1		

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
STRUCTURAL ELEVATIONS

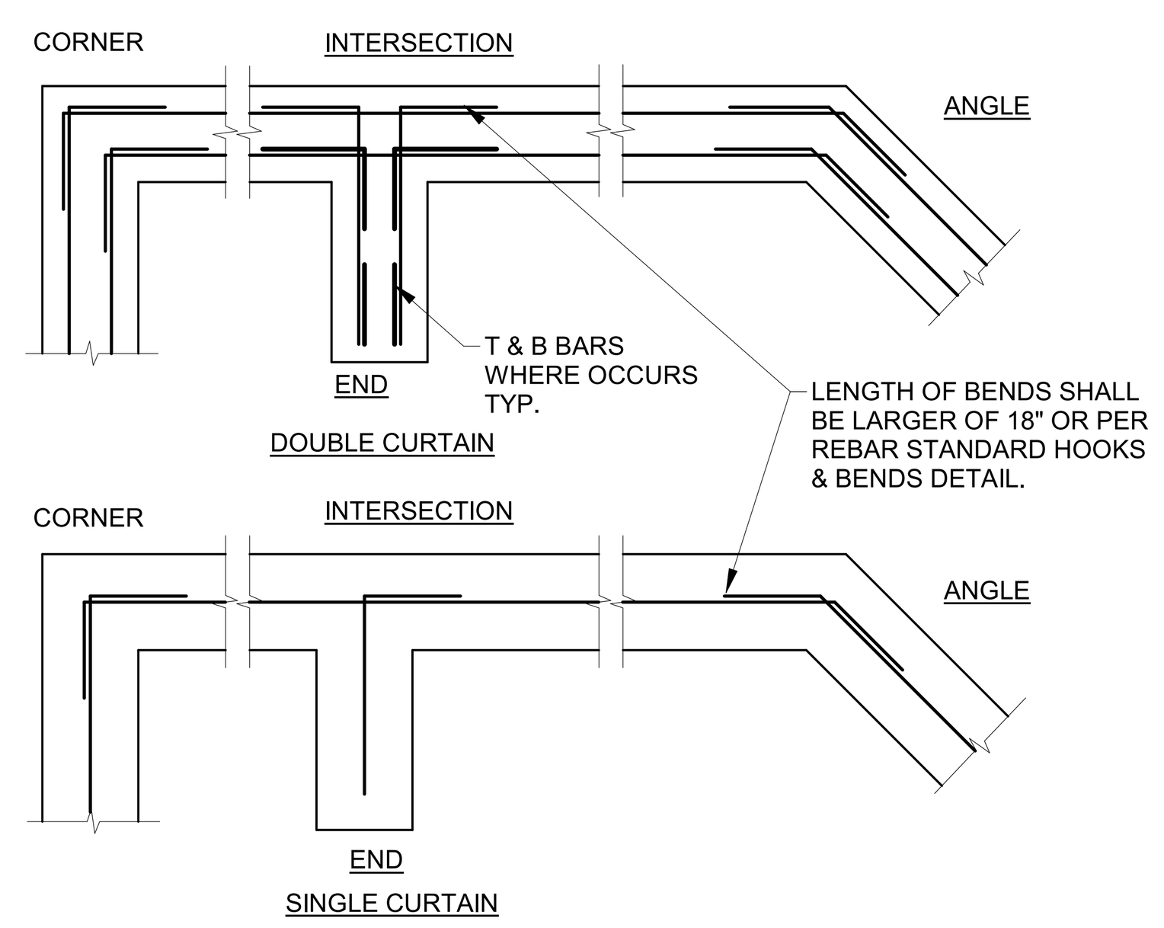
SHEET NUMBER
S-251

11/18/2024 10:26:17 PM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR05248_Hwy 50 & SR 291 (MO) FSU_STR.rvt
20-LSR-05248-S-251-STRUCTURAL ELEVATIONS

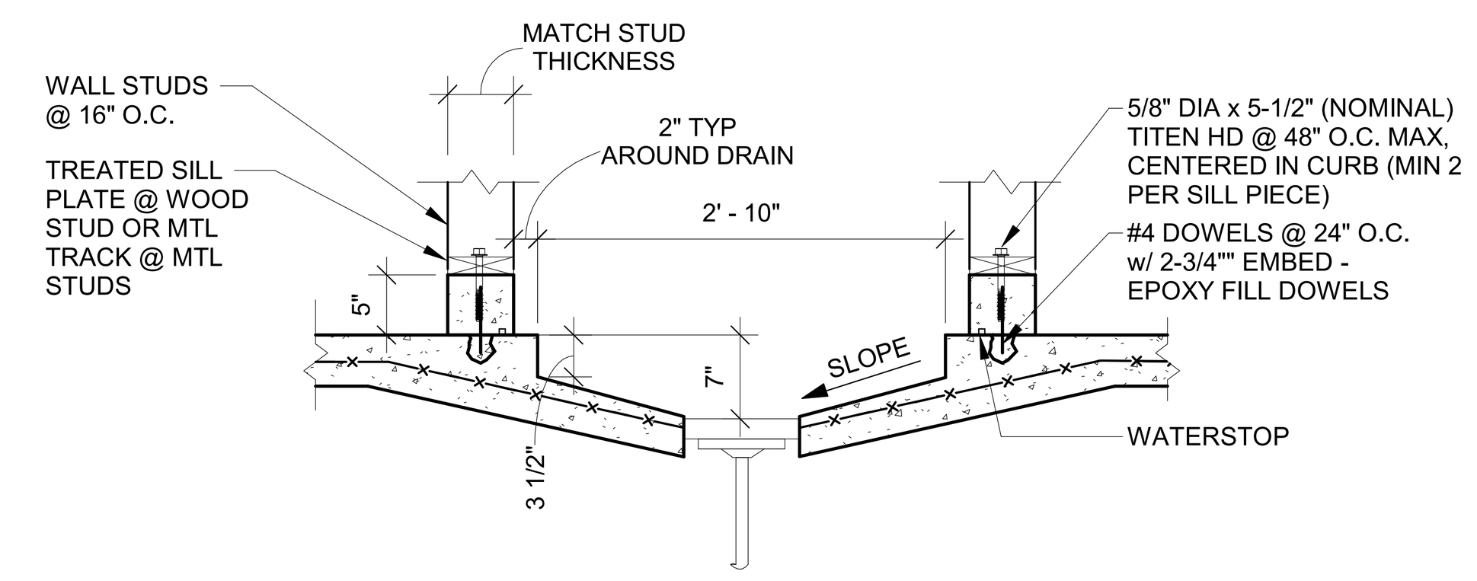
BAR SIZE	MAIN REINFORCEMENT			STIRRUPS & TIES			
	90° HOOK		180° HOOK	90° HOOK		135° HOOK	180° HOOK
	90° HOOK EXTENSION "L"	INSIDE DIA. "D1"	180° HOOK EXTENSION "L"	90° HOOK EXTENSION "L"	INSIDE DIA. "D2"	135° HOOK EXTENSION "L"	180° HOOK EXTENSION "L"
#3	4 1/2"	2 1/4"	2 1/2"	3"	1 1/2"	3"	2 1/2"
#4	6"	3"	2 1/2"	3"	2"	3"	2 1/2"
#5	7 1/2"	3 3/4"	2 1/2"	3 3/4"	2 1/2"	3 3/4"	2 1/2"
#6	9"	4 1/2"	3"	9"	4 1/2"	4 1/2"	3"
#7	10 1/2"	5 1/4"	3 1/2"	10 1/2"	5 1/4"	5 1/4"	3 1/2"
#8	1'-0"	6"	4"	1'-0"	6"	6"	4"
#9	1'-1 1/2"	9"	4 1/2"	-	-	-	-
#10	1'-3"	10'	5"	-	-	-	-
#11	1'-4 1/2""	11"	5 1/2"	-	-	-	-

NOTE: FOR SEISMIC DESIGN CATEGORY C, D & E (SEE DESIGN AND CODE INFORMATION);
1. STIRRUPS & TIES REQUIRE A 135 DEGREE HOOK
2. HOOKS SHALL ENGAGE LONGITUDINAL REINFORCEMENT AND THE EXTENSION SHALL PROJECT INTO THE INTERIOR OF THE STIRRUP OR HOOP

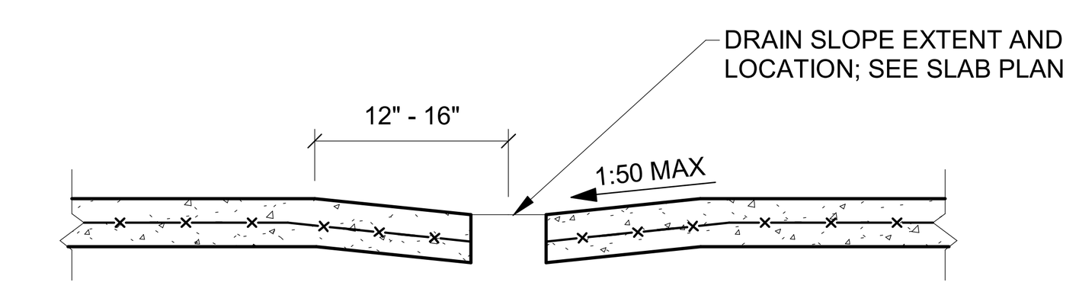
D4 REBAR STANDARD HOOKS & BENDS
N.T.S.



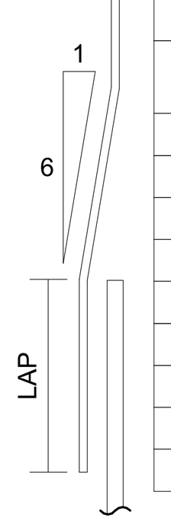
D3 TYP. REINF LAYOUT DETAIL
N.T.S.



D2 MOP SINK SECTION
3/4" = 1'-0"



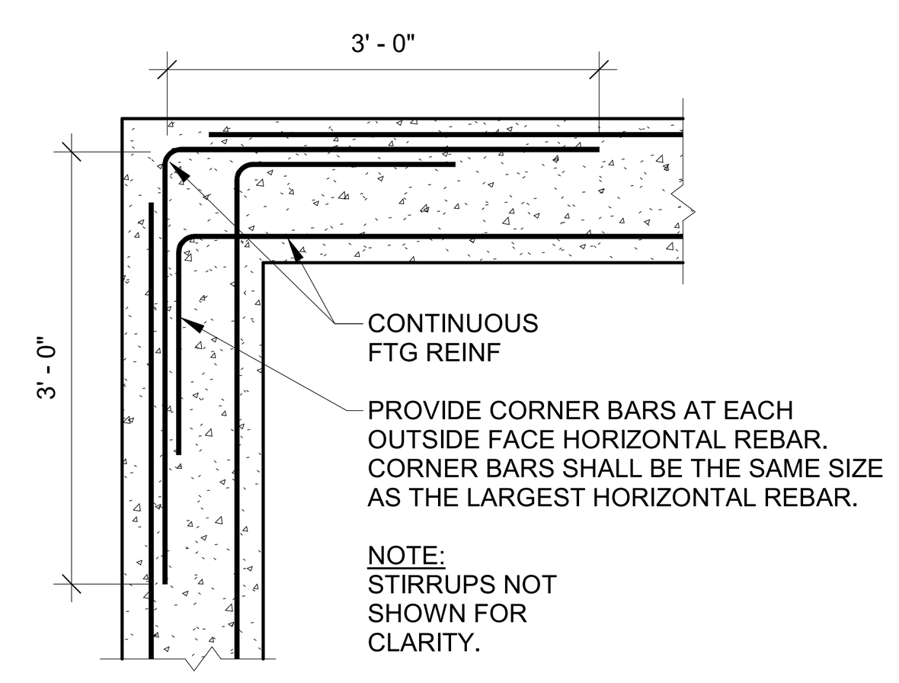
D1 DRAIN DETAIL
N.T.S.



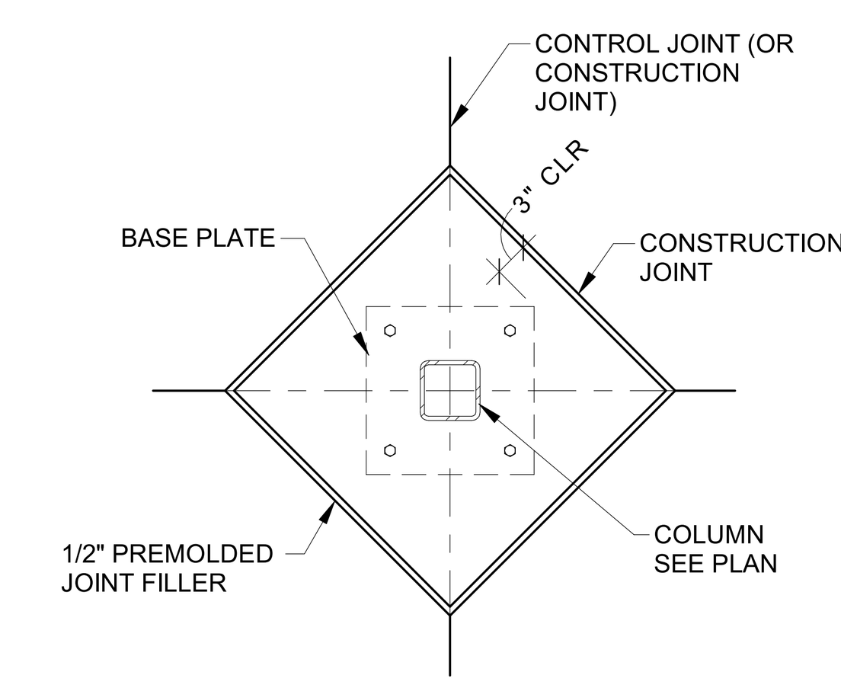
CONCRETE STRENGTH	f'c = 3000 PSI				f'c = 4000 PSI			
CLASS OF LAP SPLICE	CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	1'-10"	1'-5"	2'-4"	1'-10"	1'-7"	1'-3"	2'-1"	1'-7"
#4	2'-5"	1'-10"	3'-2"	2'-5"	2'-1"	1'-7"	2'-9"	2'-1"
#5	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-5"	2'-7"
#6	3'-7"	2'-9"	4'-8"	3'-7"	3'-1"	2'-5"	4'-1"	3'-1"
#7	5'-3"	4'-0"	6'-9"	5'-3"	4'-6"	3'-6"	5'-11"	4'-6"
#8	6'-0"	4'-7"	7'-9"	6'-0"	5'-2"	4'-0"	6'-9"	5'-2"
#9	6'-9"	5'-2"	8'-9"	6'-9"	5'-10"	4'-6"	7'-7"	5'-10"
#10	7'-6"	5'-9"	9'-8"	7'-6"	6'-6"	5'-0"	8'-5"	6'-6"
#11	8'-2"	6'-4"	10'-8"	8'-2"	7'-1"	5'-6"	9'-3"	7'-1"

NOTES:
1. UNLESS INDICATED OTHERWISE, USE CLASS "B" LAP SPLICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTORS(S) LISTED BELOW.
2. WHERE THE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2 BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
3. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%
4. A CLASS "A" SPLICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS. WHERE DEVELOPMENT LENGTH (Ld) IS REQUIRED OR CALLED OUT ON THE DRAWINGS, USE CLASS "A" LAP SPLICE LENGTH.
5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
6. LAP SPLICE LENGTHS IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP SPLICE LENGTH BY 34%
7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

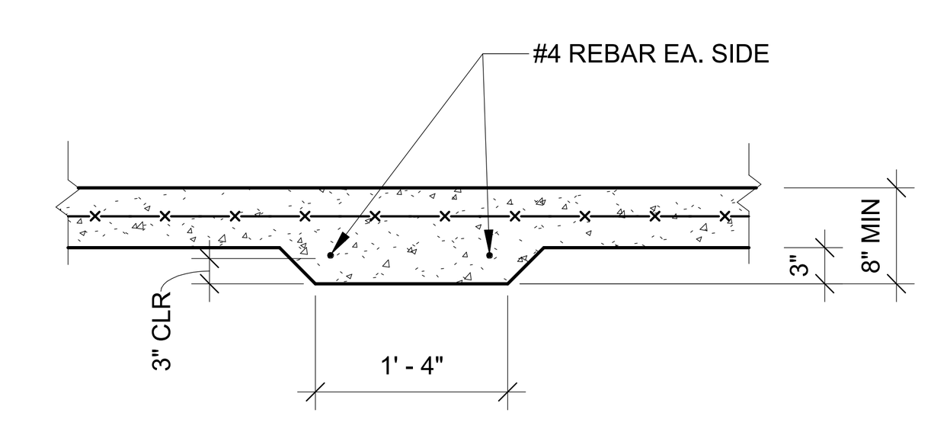
C4 REBAR OFFSET & LAP SPLICE REQUIREMENTS
N.T.S.



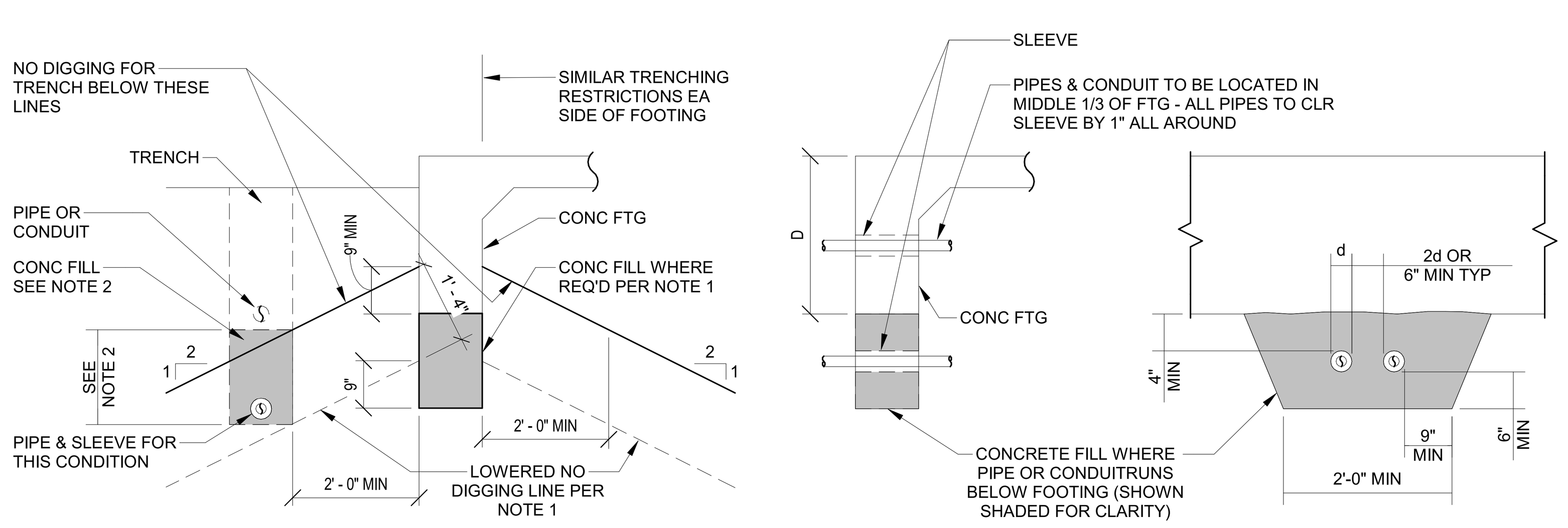
C3 TYP. CONTINUITY CORNER
N.T.S.



C2 COLUMN ISOLATION JOINTS
N.T.S.



C1 THICKENED SLAB @ TABLE
N.T.S.



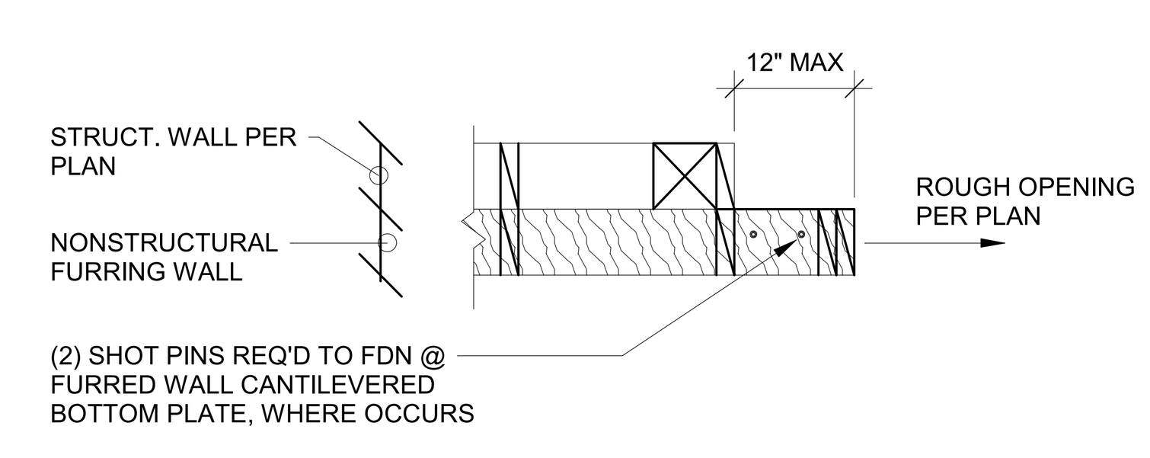
PARALLEL TO FTG

PERPENDICULAR TO FTG

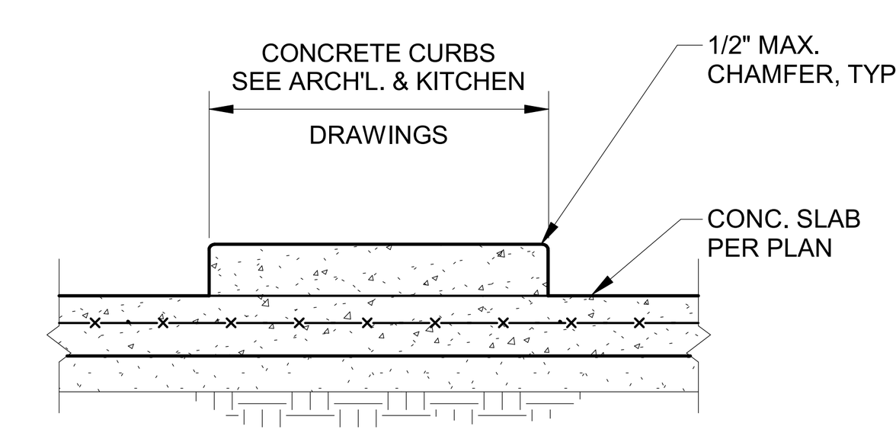
NOTES:
1. WHERE TRENCH OCCURS BELOW "NO DIGGING LINE" (SHOWN AS HEAVY DASHED LINE), LOWER BOTTOM OF FTG WITH CONC FILL TO LOWER NO DIGGING LINE AS REQ'D (SHOWN AS LT DASHED LINE).
2. IN LIEU OF LOWERING BOT. OF FTG WHERE TRENCH OCCURS BELOW NO DIGGING LINE, FILL PORTION OF TRENCH BELOW NO DIGGING LINE W/ CONC FILL PRIOR TO EXCAVATING FTG. PROVIDE SLEEVE W/ 1" CLR AROUND PIPE ENCASED IN CONC.
3. SEE PIPES PERPENDICULAR TO FOOTING FOR ADDITIONAL NOTES.

NOTES:
1. CONCRETE FILL SHALL HAVE f'c @ 28 DAYS > 1500 PSI.
2. CONCRETE FILL TO BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH. STEP FTG IF PIPE IS MORE THAN 2'-6" BELOW BOT. OF FTG.
3. NO PIPE SHALL BE PLACED BELOW SPREAD FTGS - TYP.
4. IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ 1" THICK GLASS WOOL INSULATION IN LIEU OF SLEEVE.
5. PROVIDE 6" CLR MINIMUM, BETWEEN PIPES OR CONDUIT & REINFORCING.
6. NO PIPES UNDER PRESSURE ALLOWED WITHIN FTG IN LONGITUDINAL DIRECTION.
7. CONDUITS WITHIN FTG SHALL BE LOCATED SUCH THAT VERTICAL RISERS DO NOT CROSS ADJACENT HORIZONTAL CONDUIT. MINIMUM COVER SHALL BE 1 1/2" AND 2d MINIMUM SEPARATION.

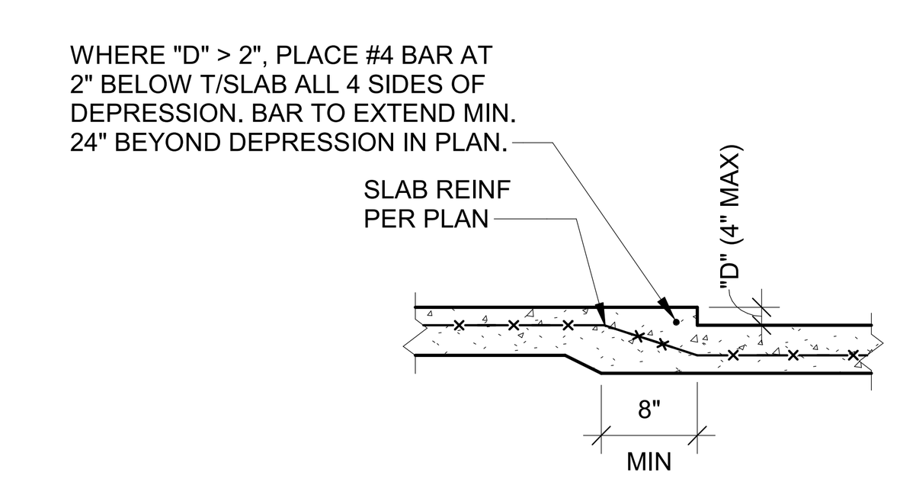
B4 UNDERGROUND UTILITIES AT FOUNDATIONS
N.T.S.



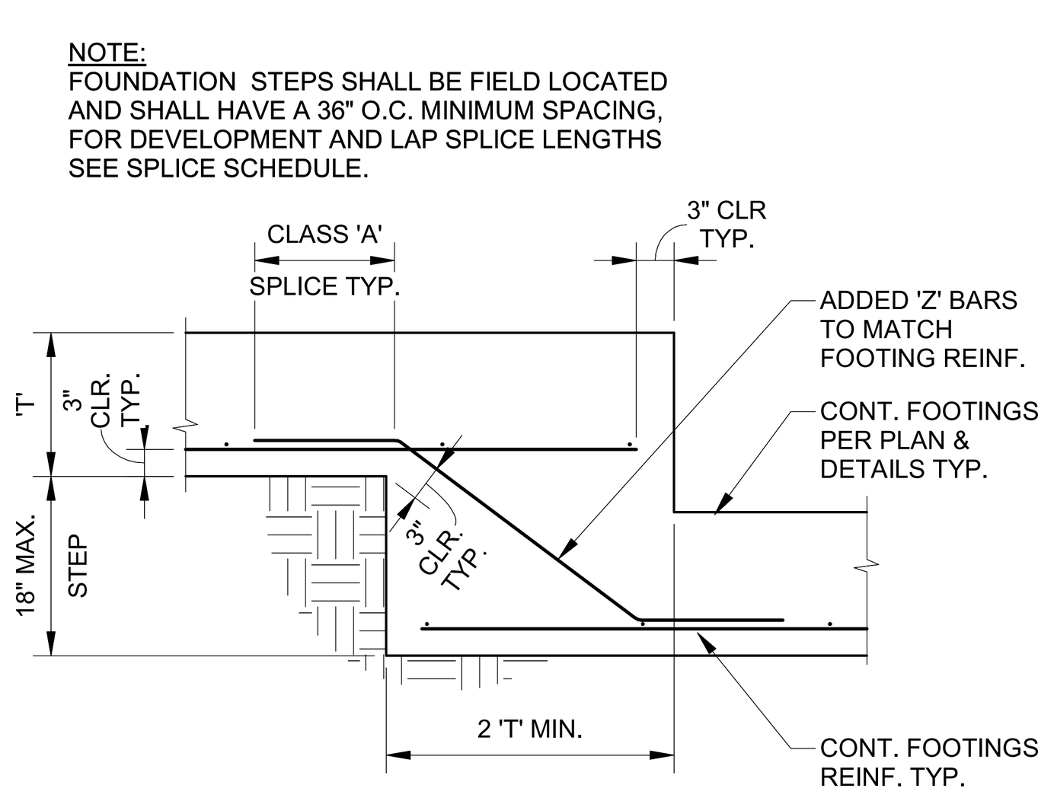
B3 FURRED WALL CANTILEVERED BOTTOM PLATE
N.T.S.



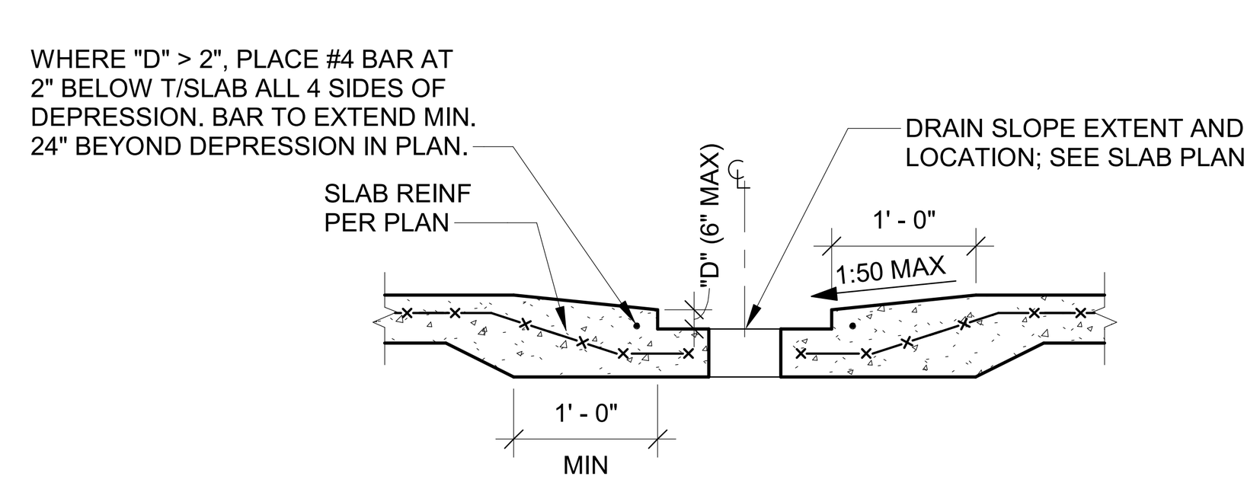
B2 CONC. CURB DETAIL
N.T.S.



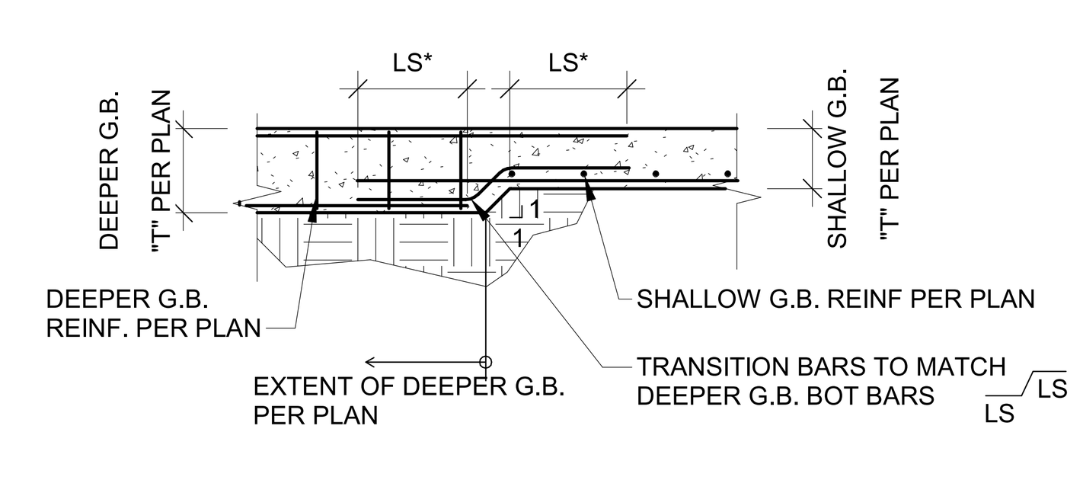
B1 SECTION @ DEPRESSED SLAB
N.T.S.



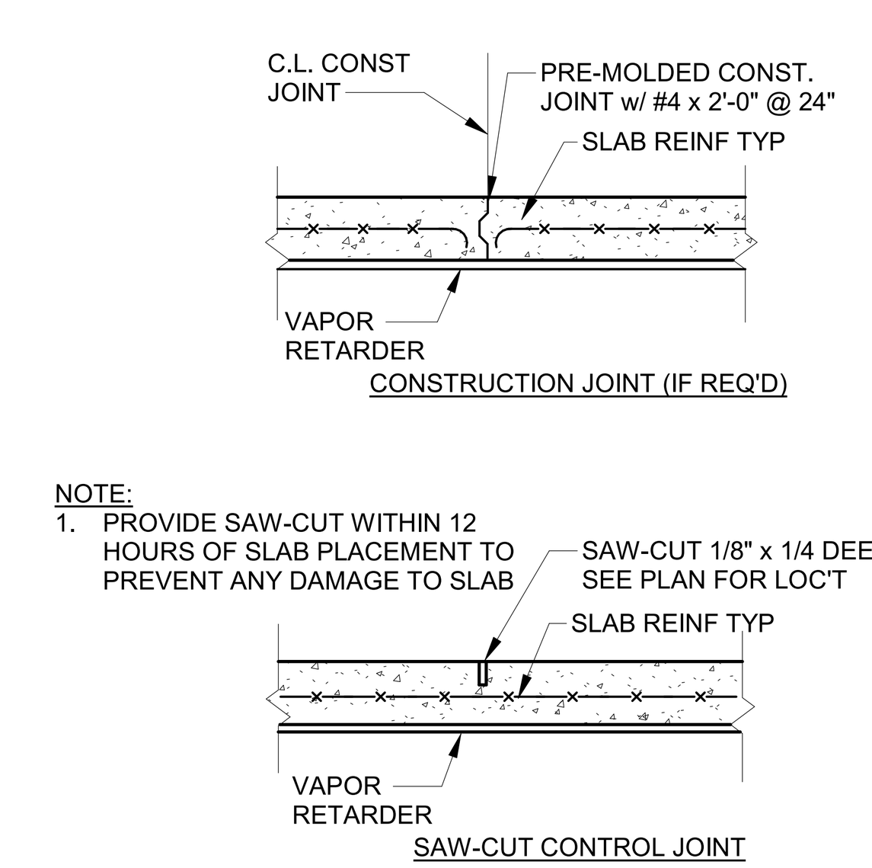
A4 TYP. STEPPED FOOTING DETAIL
N.T.S.



A3 SECTION @ ICE MACHINE SLAB DEPRESSION
3/4" = 1'-0"



A2 TYP. GRADE BEAM TRANSITION
3/4" = 1'-0"



A1 SLAB ON GRADE JOINTS
3/4" = 1'-0"

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11-18-2024

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Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
TYPICAL CONCRETE DETAILS

SHEET NUMBER
S-300

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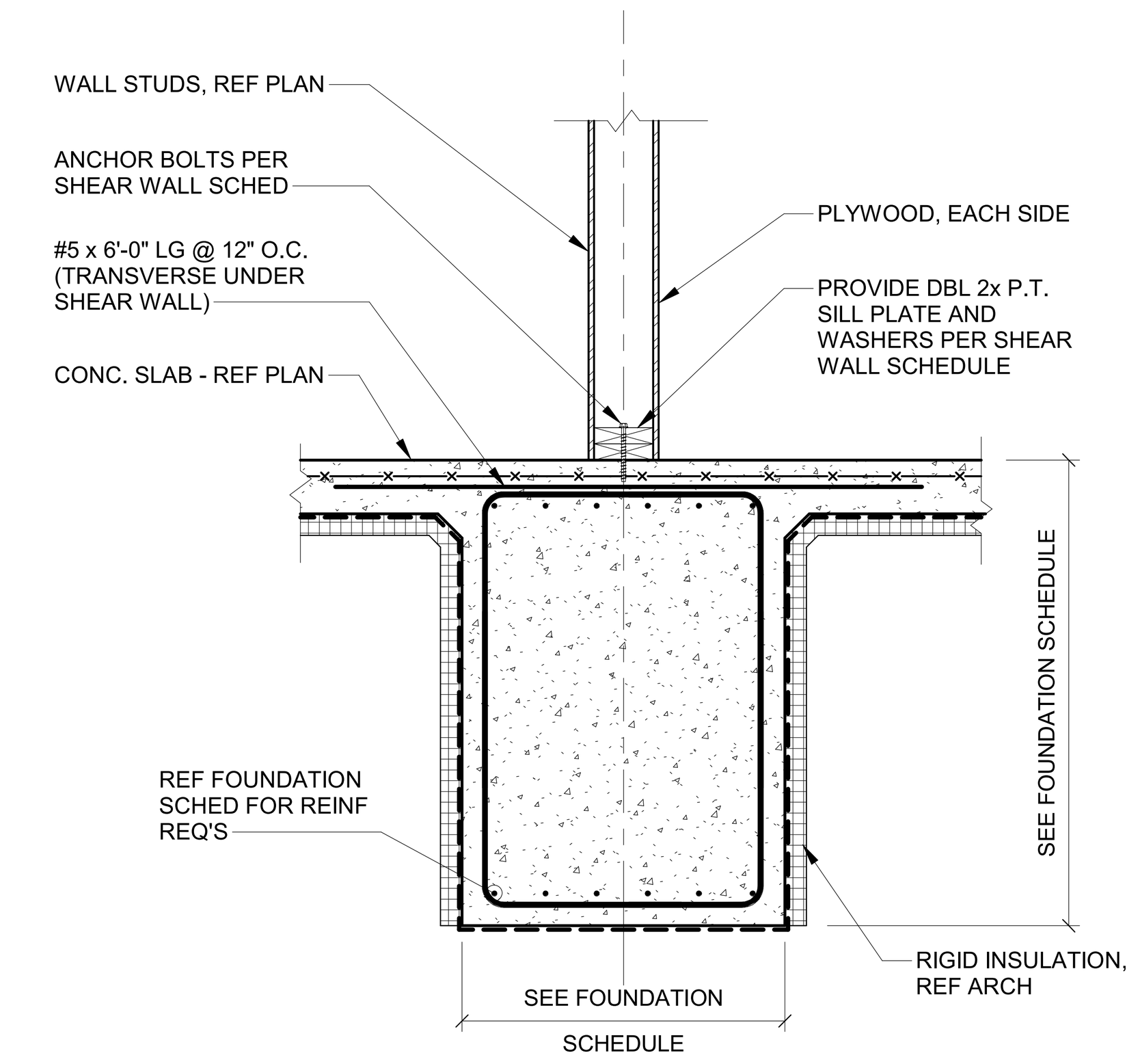
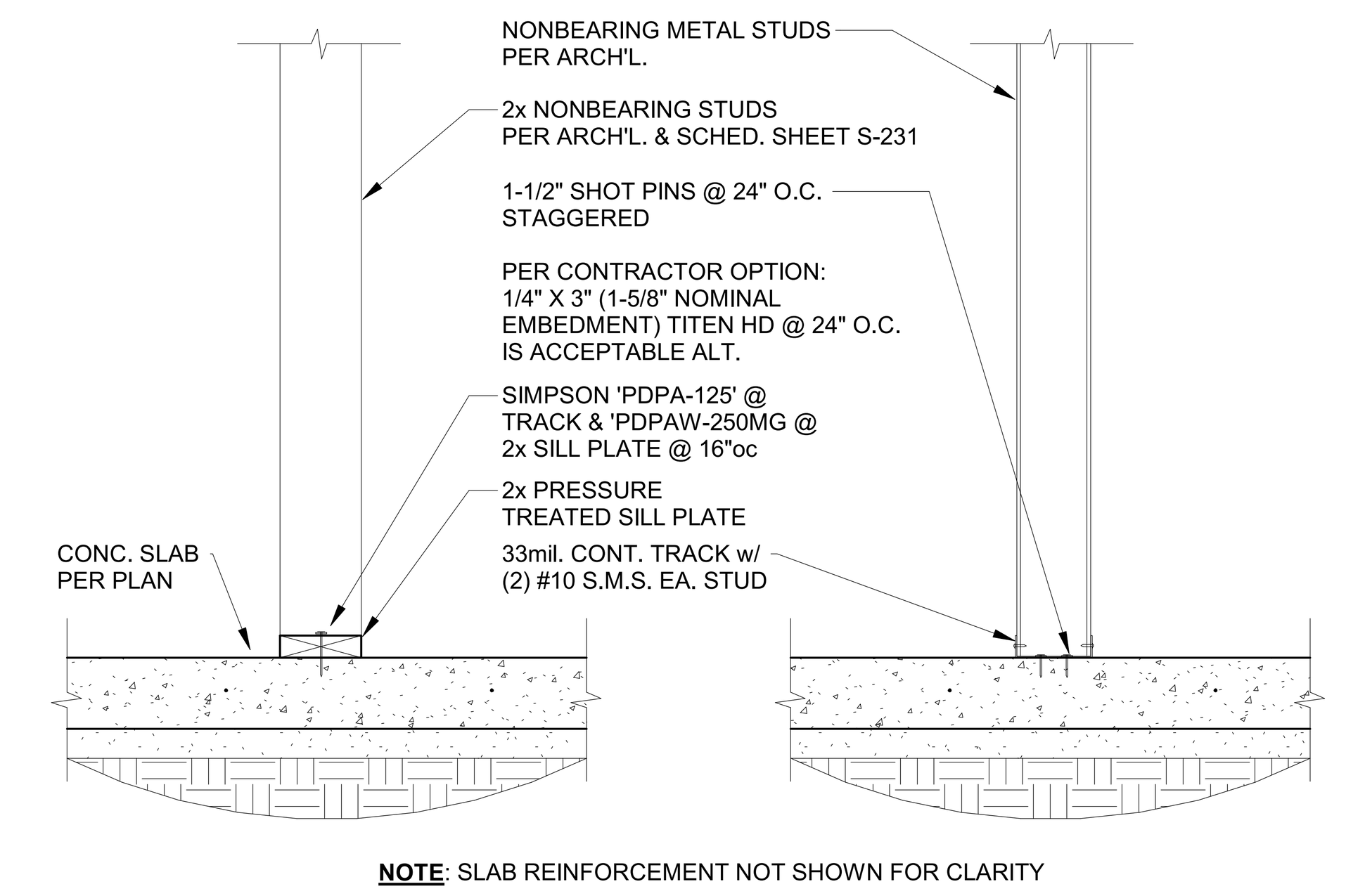
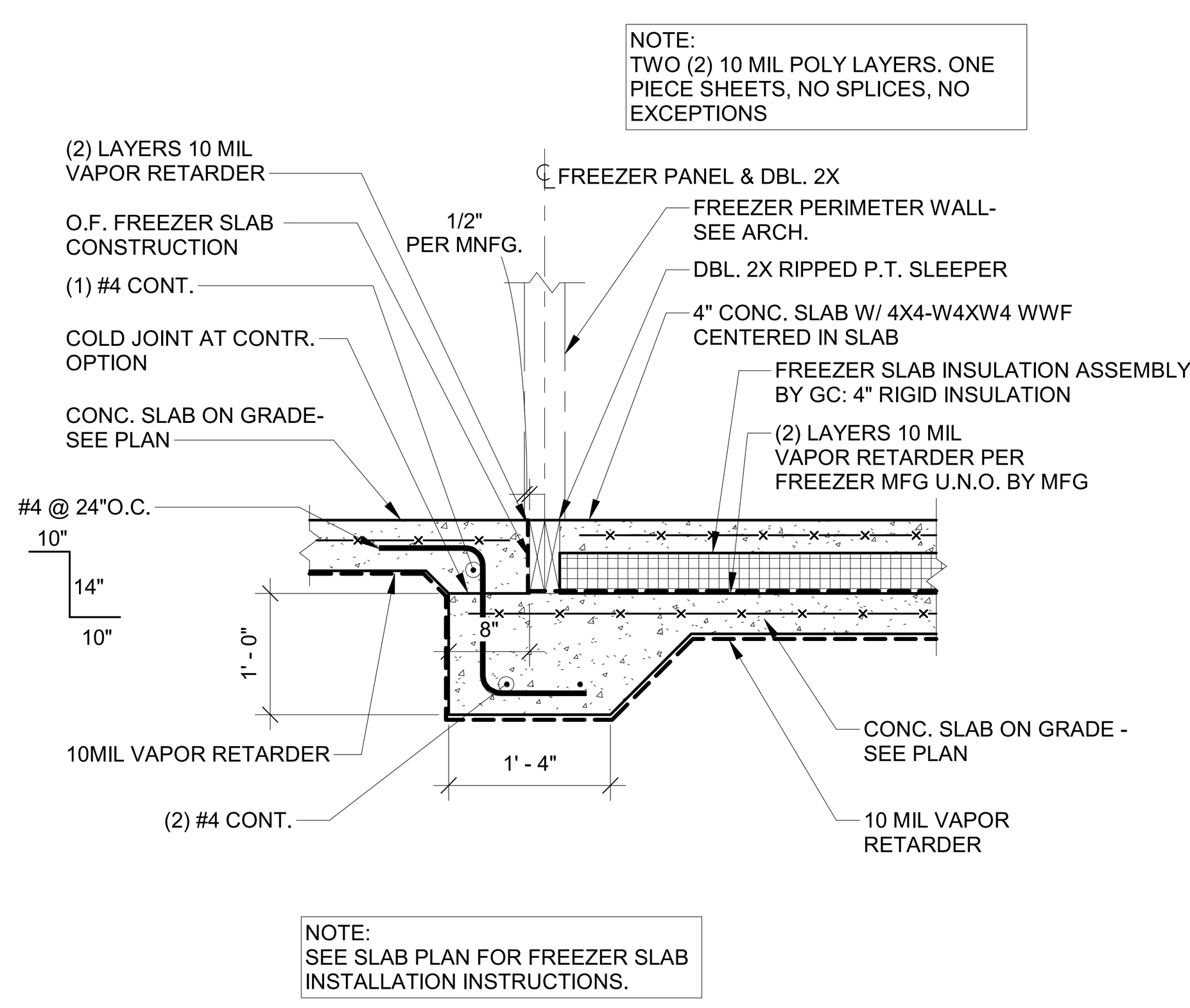
20-LSR-05248-S-300-TYPICAL CONCRETE DETAILS



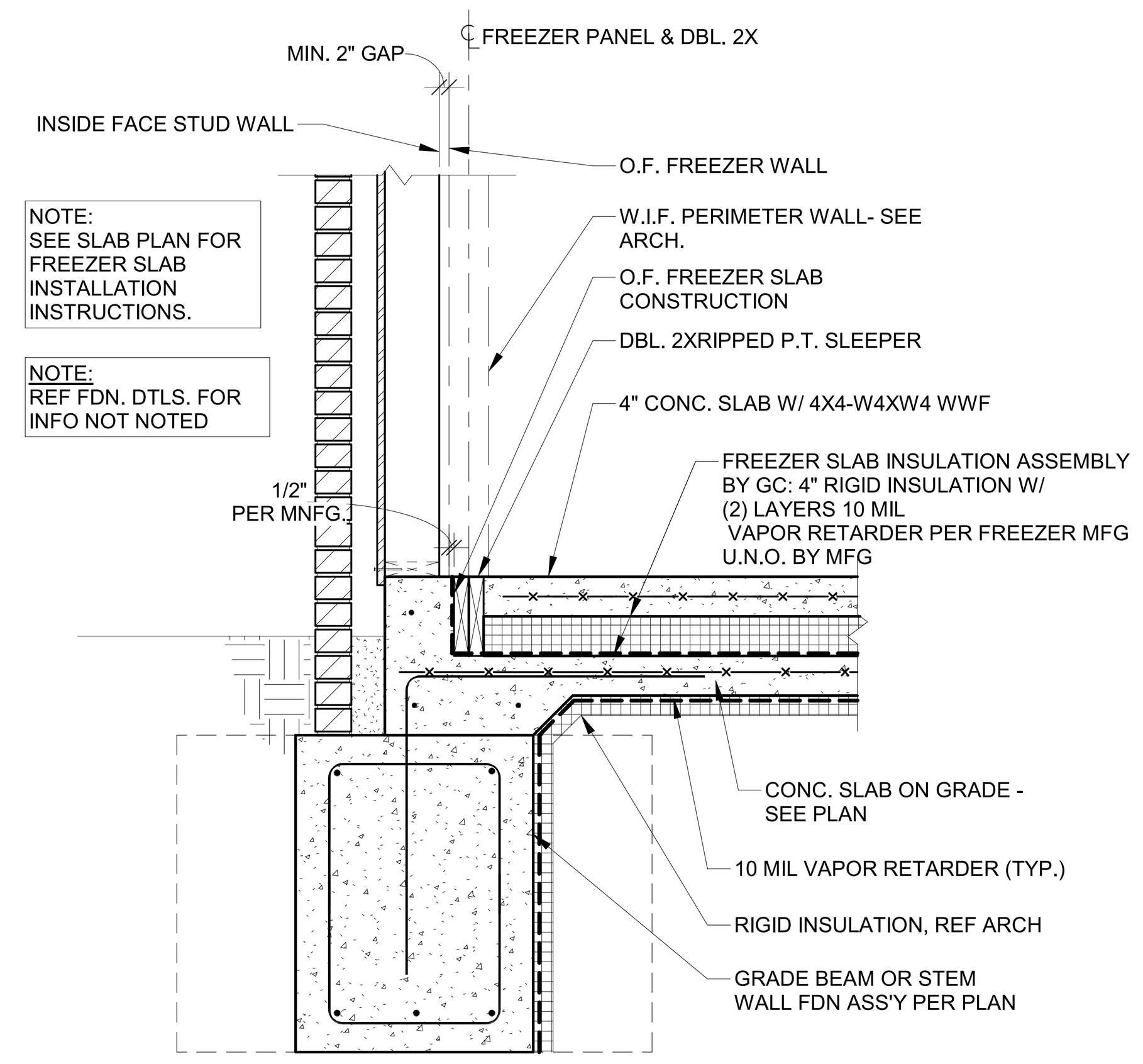
D2 FOOTING @ INTERIOR SHEAR WALL
3/4" = 1'-0"



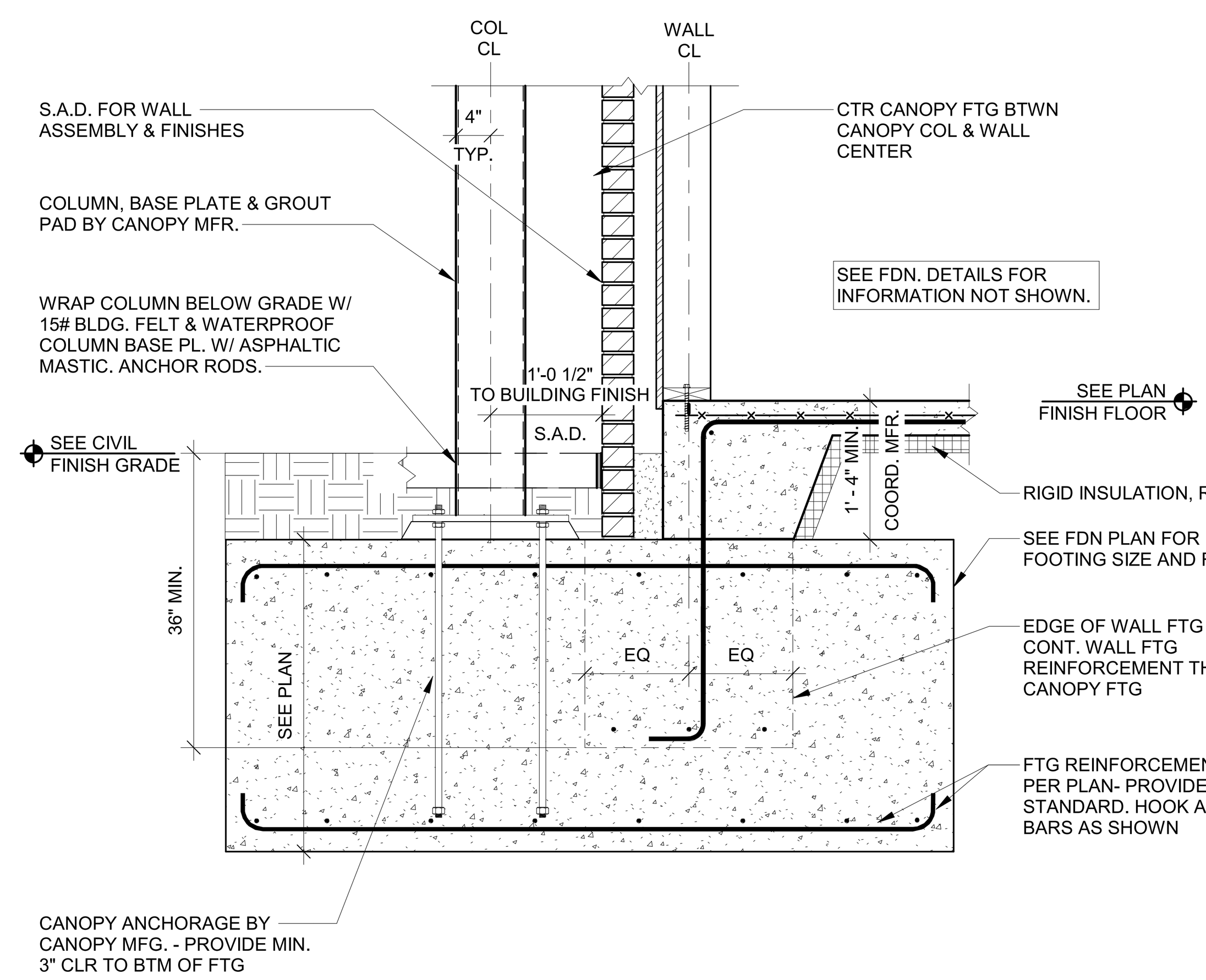
D1 TYP. NONBEARING PARTITIONS
1" = 1'-0"



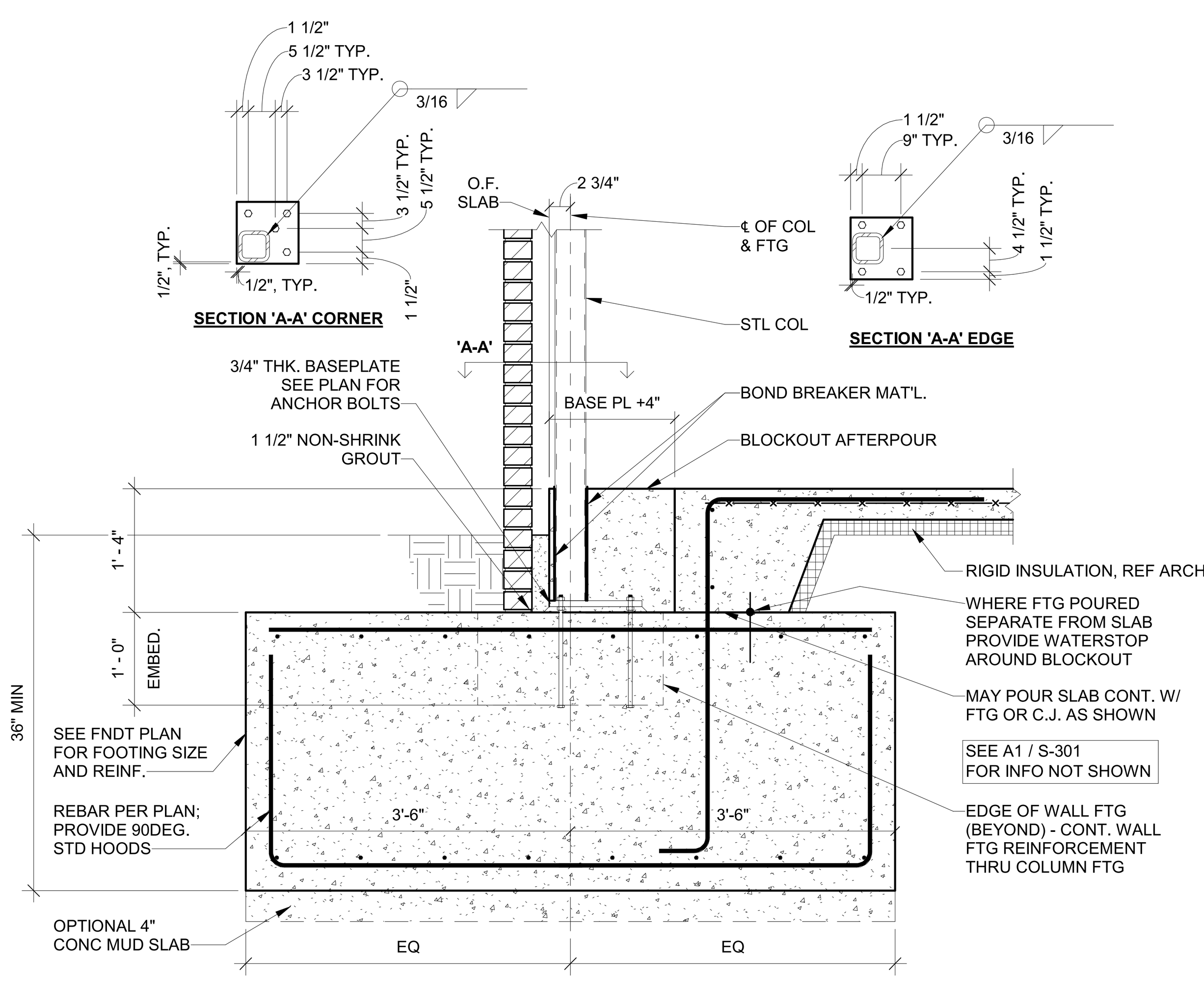
C4 FREEZER DEPRESSION DETAIL @ INT.
3/4" = 1'-0"



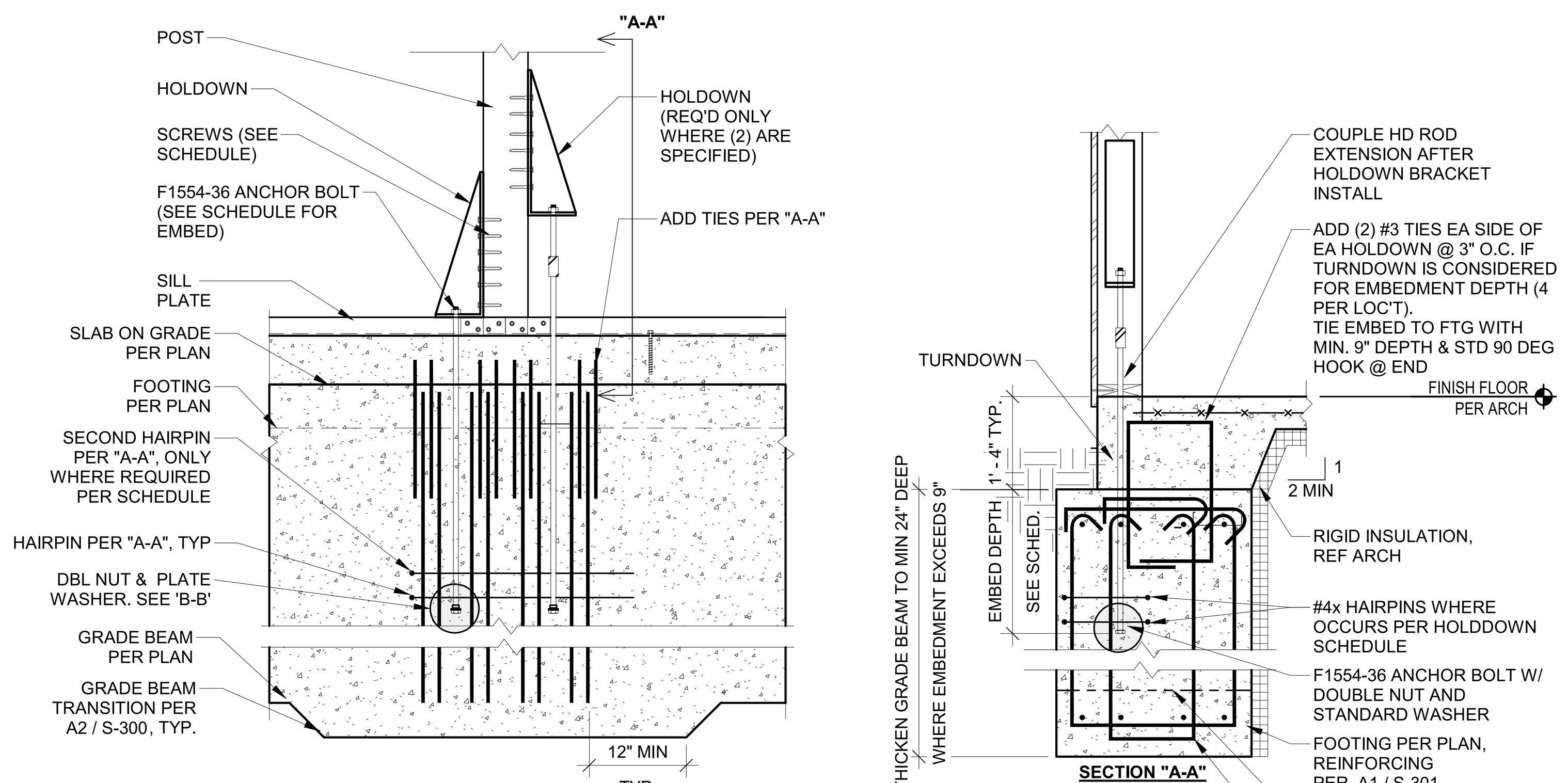
C3 FREEZER DEPRESSION DETAIL @ EXT. (GB)
3/4" = 1'-0"



C2 TYP. EXTERIOR CANOPY FOOTING (GB)
3/4" = 1'-0"

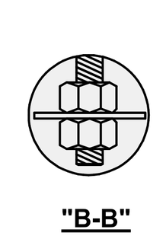


C1 TYP. STEEL COL @ EXT WALL (GB)
3/4" = 1'-0"

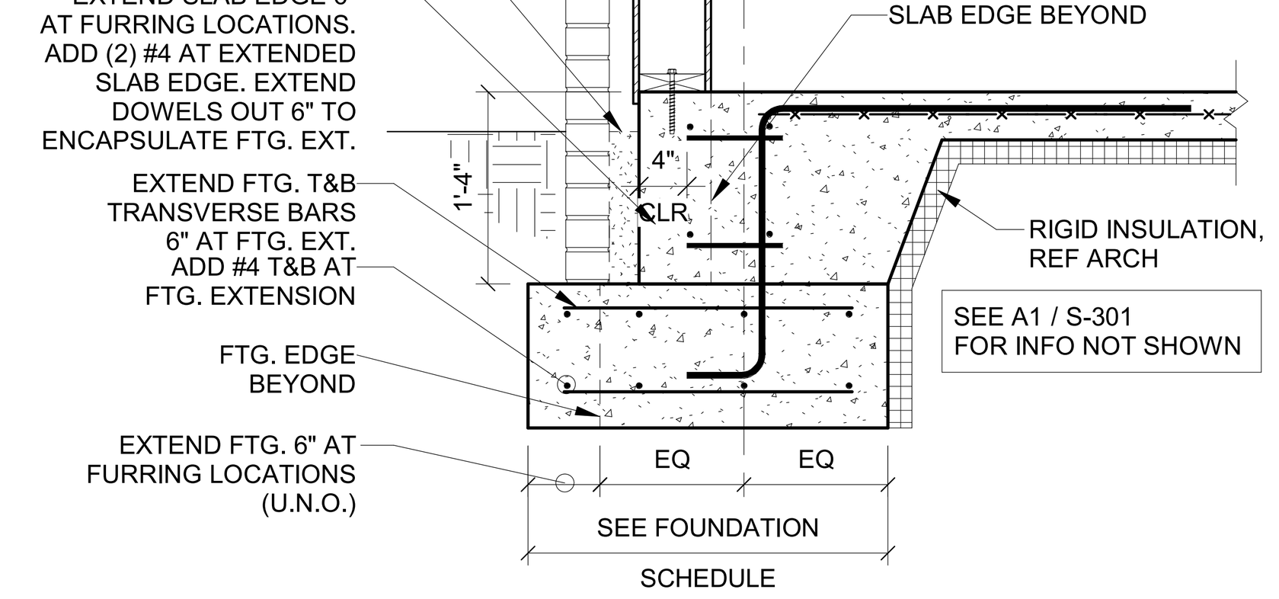


NOTE:
1. TYP WALL REINF NOT SHOWN FOR CLARITY SEE A1 / S-301
2. COUNTERSINK HD19 BOLTS MAX 1" INTO POST TO AVOID INTERFERENCES

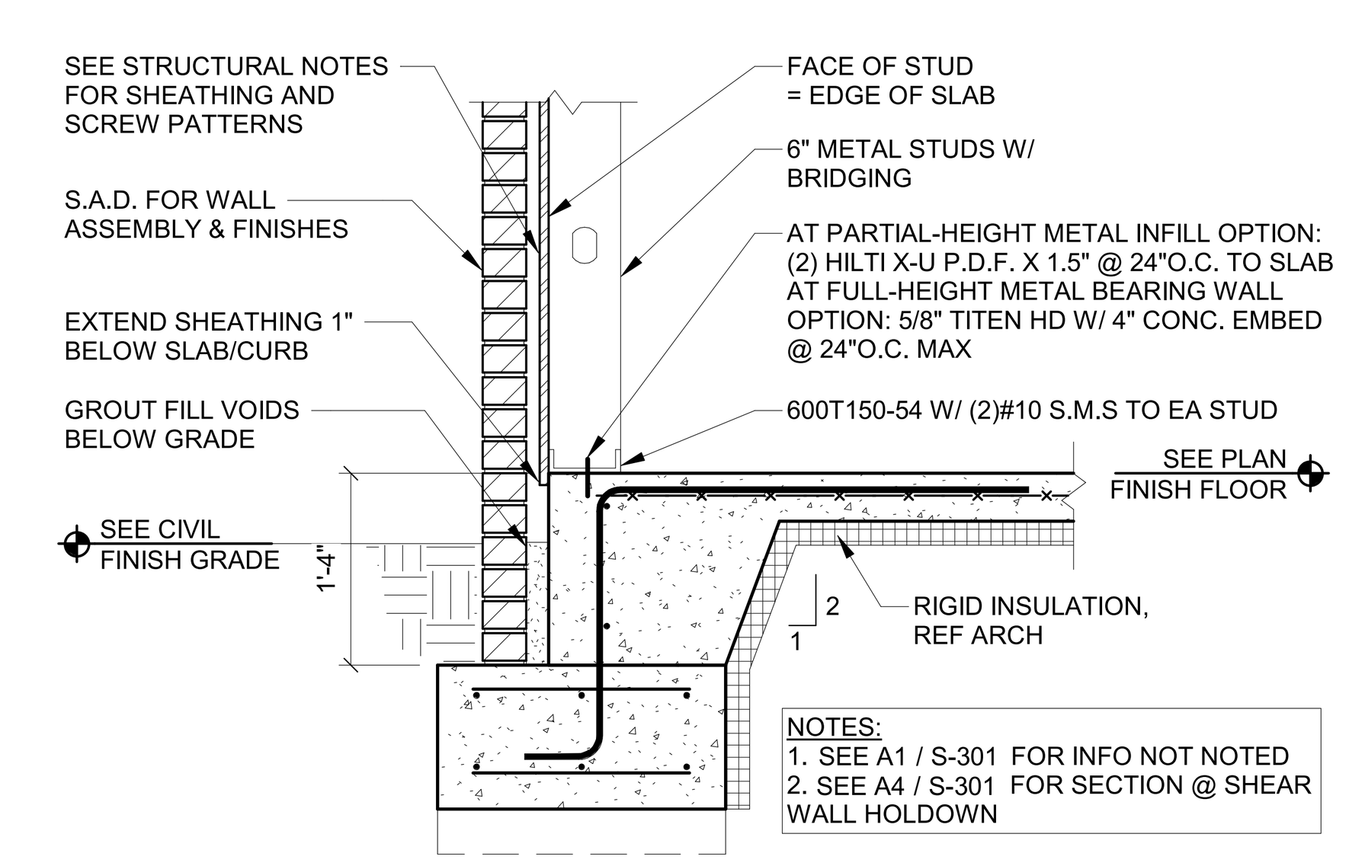
SIMPSON HOLDOWN	STUD SCREWS	MIN POST DEPTH	ANCHOR BOLT (F1554-36)	A.B. EMBEDMENT	NUMBER OF #4 HOOPS ASSEMBLIES	NUMBER OF #4 HAIRPINS
HDU2-SDS2.5	(6) SDS 1/4" x 2-1/2"	3 1/2"	5/8"Ø	8"	0	0
HDU4-SDS2.5	(10) SDS 1/4" x 2-1/2"	3 1/2"	5/8"Ø	8"	0	0
HDU5-SDS2.5	(14) SDS 1/4" x 2-1/2"	3 1/2"	5/8"Ø	8"	0	0
HDU8-SDS2.5	(20) SDS 1/4" x 2-1/2"	4 1/2"	7/8"Ø	18"	2	0
HDU11-SDS2.5	(30) SDS 1/4" x 2-1/2"	5 1/2"	1"Ø	18"	2	0
HDU14-SDS2.5	(36) SDS 1/4" x 2-1/2"	5 1/2"	1"Ø	18"	2	0
HD19	(5) 1" DIA THRU-BOLTS	7 1/4"	1-1/4"Ø	18"	4	0
2x HDU14-SDS2.5	2x (36) SDS 1/4" x 2-1/2"	9 1/2"	1"Ø	18"	2	1



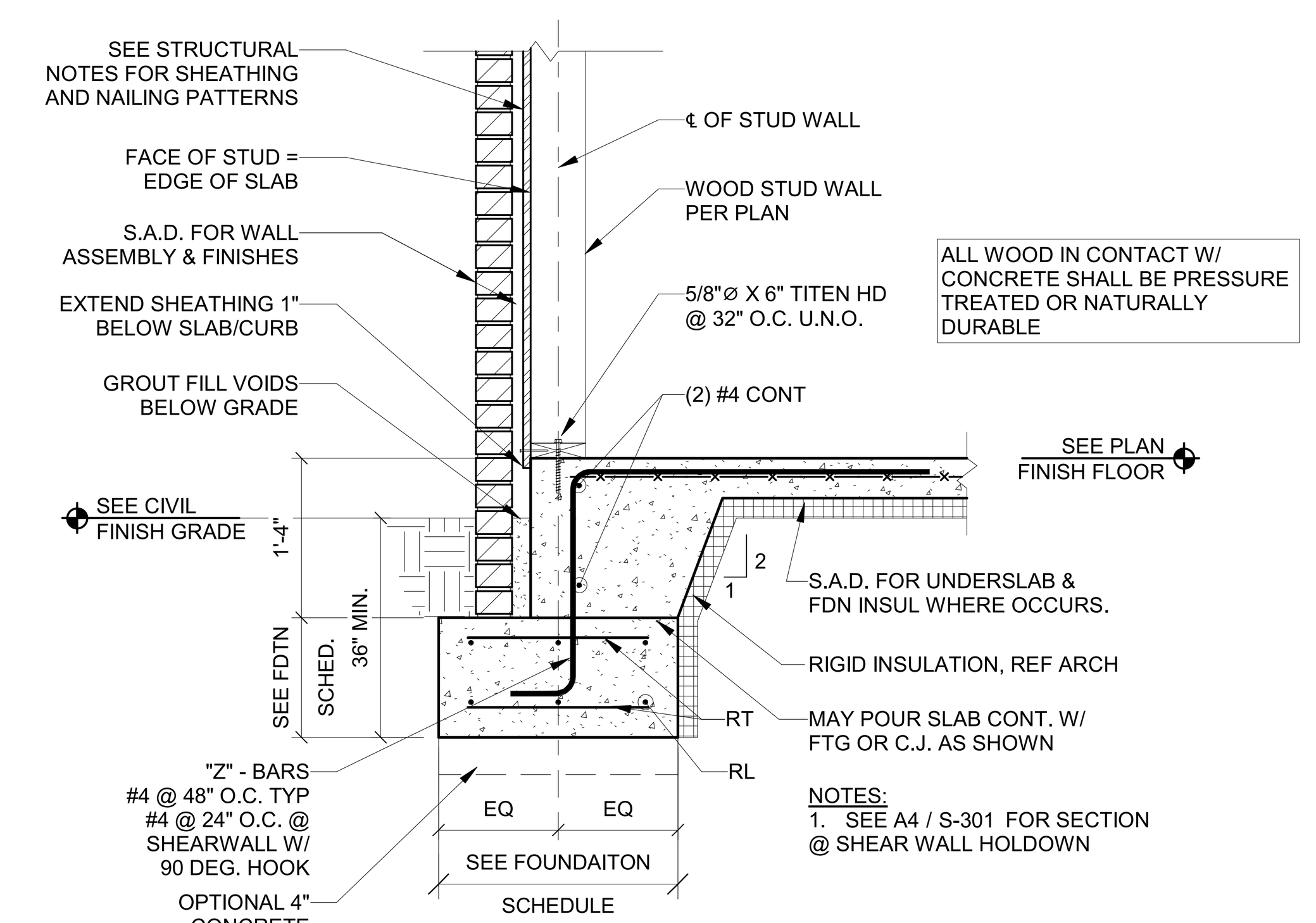
A4 HOLDDOWN DETAIL @ SHEAR WALLS & POSTS (GB)
3/4" = 1'-0"



A3 EXTERIOR STUD WALL FURR-OUT
3/4" = 1'-0"



A2 TYP. SECTION @ EXT MTL STUD WALL (GB)
3/4" = 1'-0"



A1 TYP. SECTION @ EXTERIOR STUD WALL (GB)
3/4" = 1'-0"

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FSR#05248

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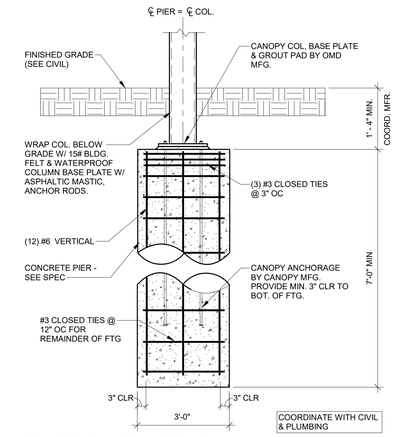
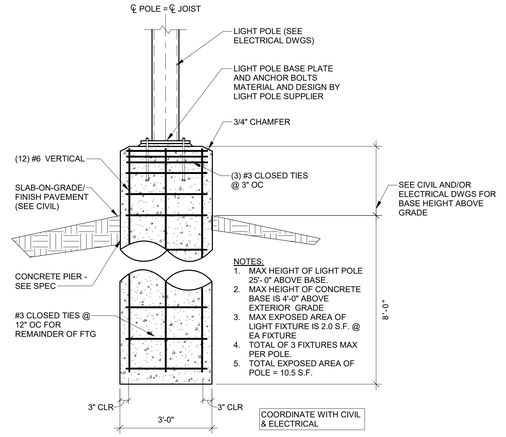
CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
FOUNDATION DETAILS

SHEET NUMBER
S-301



A2 ISOLATED CANOPY FOOTING
3/4" = 1'-0"



A1 LIGHT POLE BASE DETAIL
3/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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BPA Project No. 240741

STATE OF MISSOURI
DAVID F. DAWSON
NUMBER PE-2021045810
PROFESSIONAL ENGINEER

11-18-2024

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR

PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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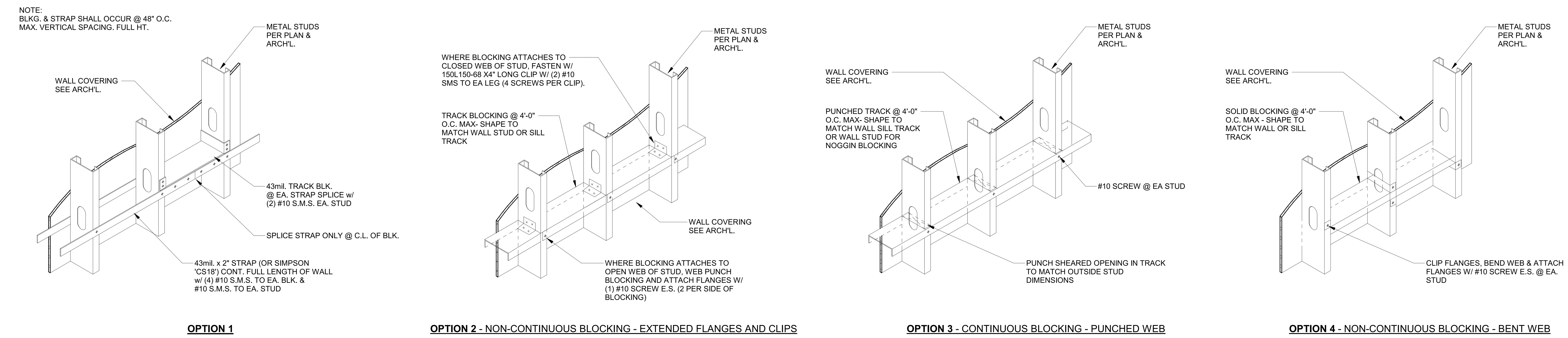
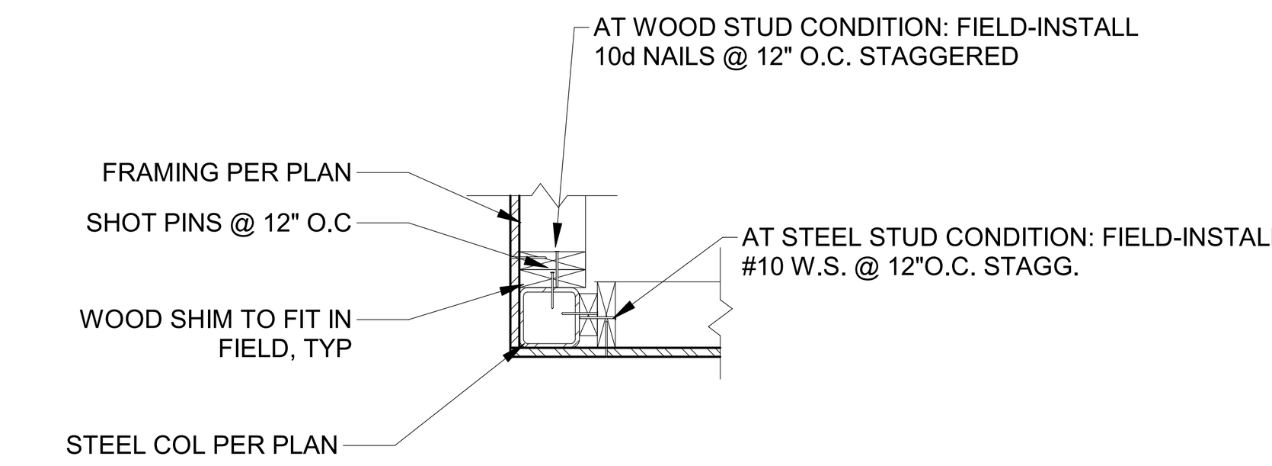
SHEET
FOUNDATION DETAILS

SHEET NUMBER
S-302

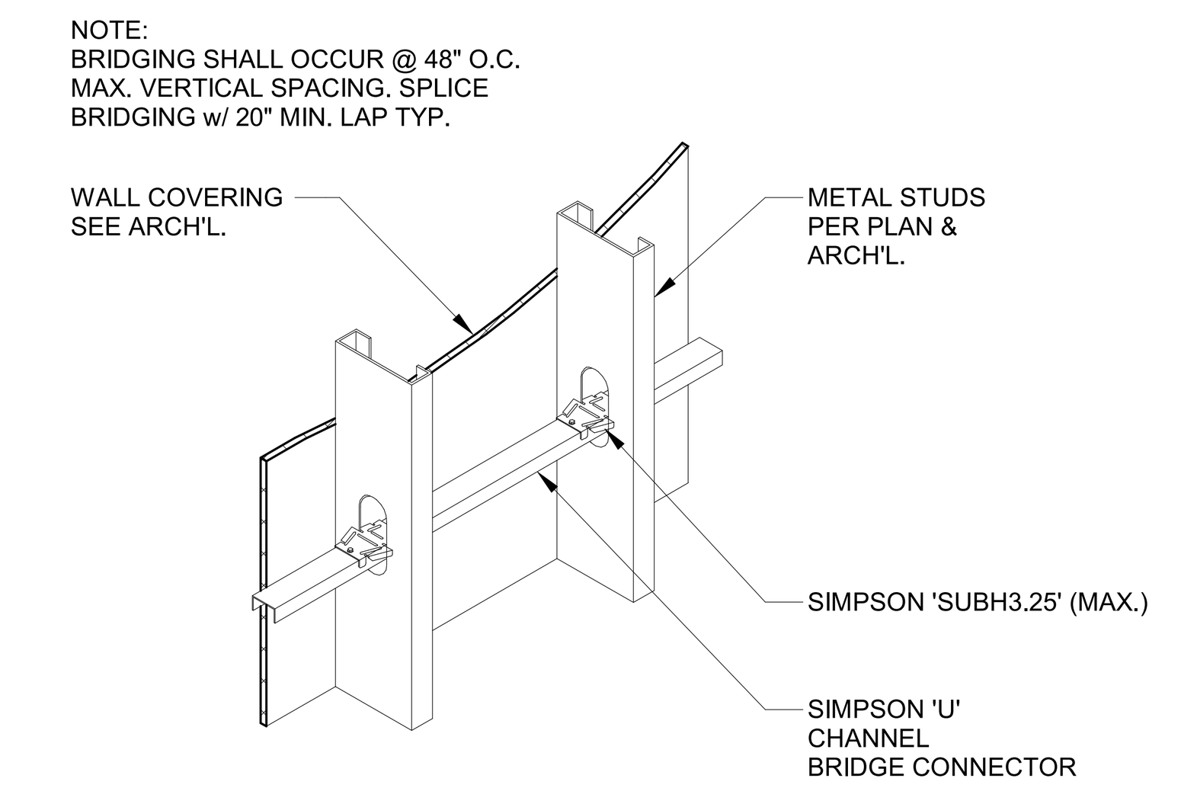
11/18/2024 10:26:21 PM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR/05248_Hwy 50 & SR 291 (MO) FSU_STR.rvt
20-LSR-05248-S-302-FOUNDATION DETAILS



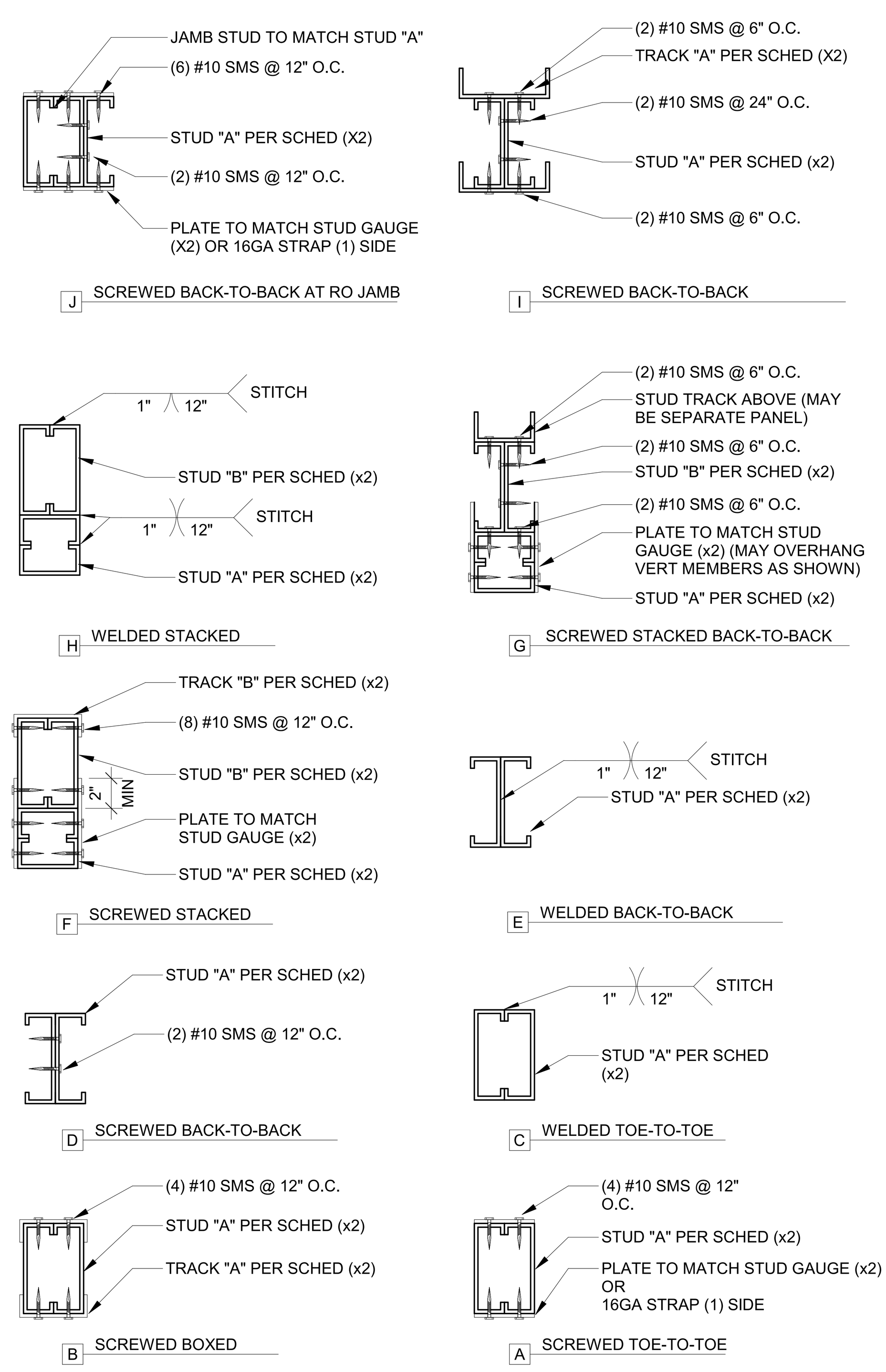
D4 TYP. METAL STUD WALL BRIDGING
N.T.S.



E1 TYP. HSS COLUMN IN-WALL
3/4" = 1'-0"

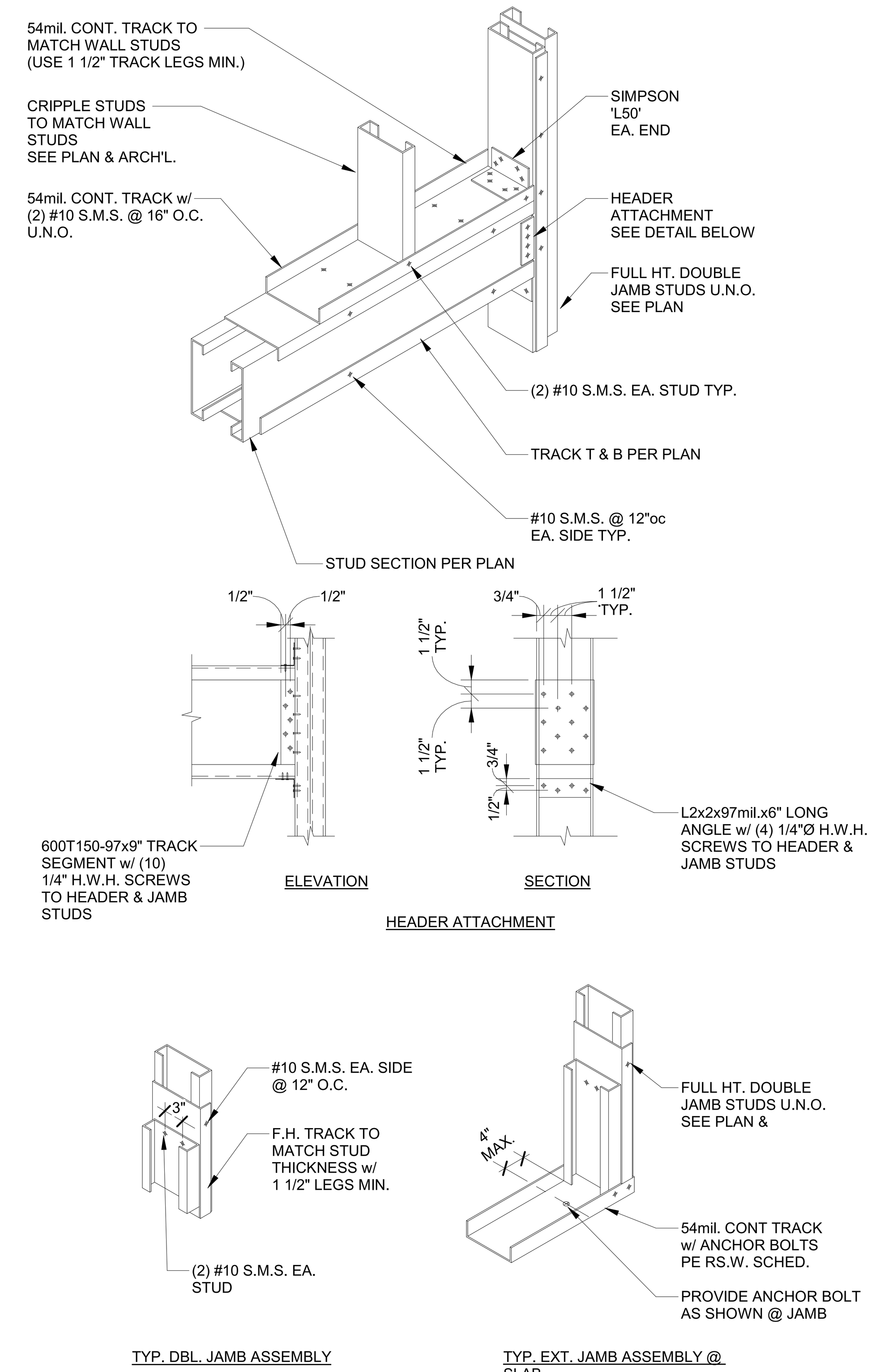


D1 METAL STUD WALL BRIDGING ALT
N.T.S.

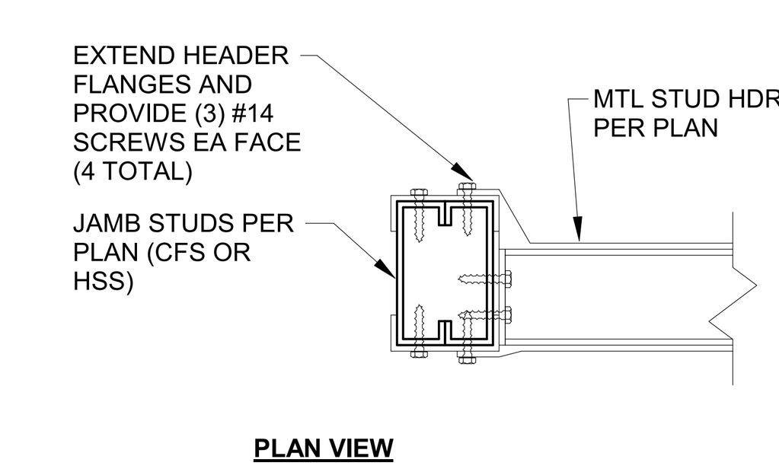


NOTE: REFERENCE PLANS FOR ALLOWABLE CONFIGURATIONS AND MEMBER SIZES

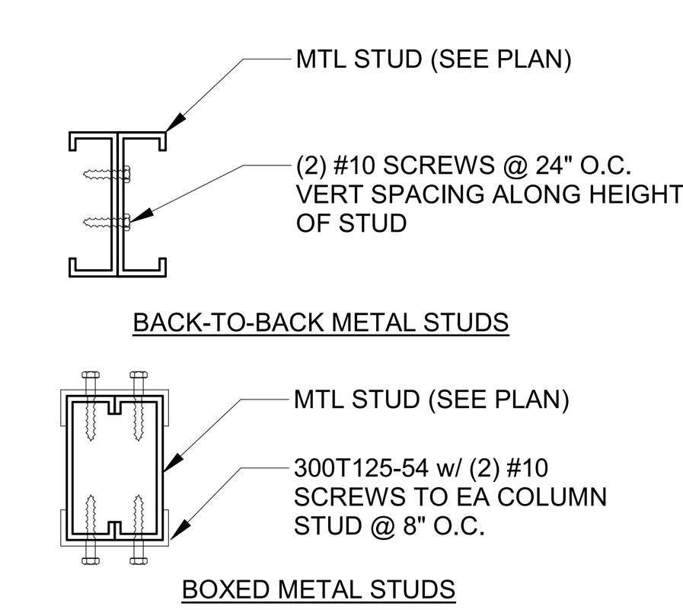
B3 BUILT-UP POST & HEADER ASSEMBLIES
N.T.S.



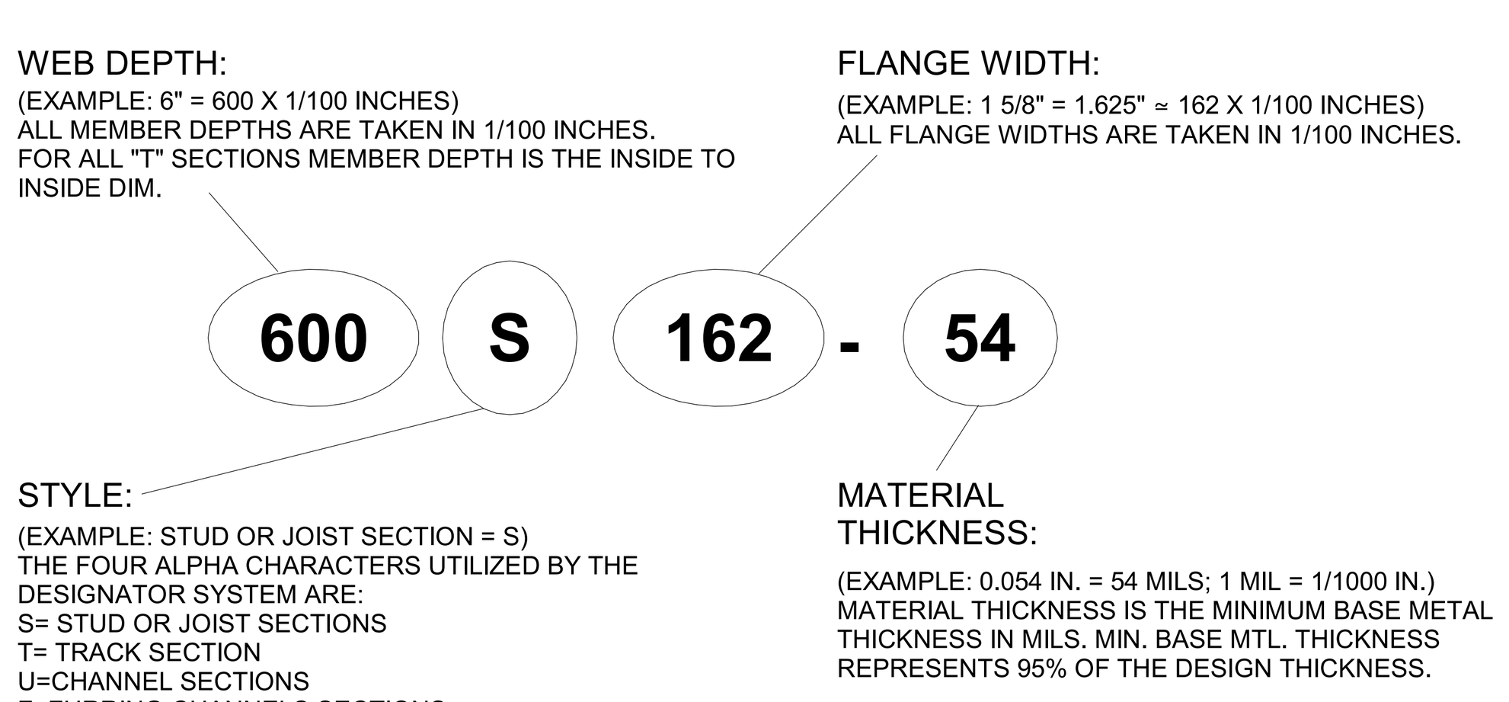
B2 TYP. METAL STUD R.O. DETAILING
N.T.S.



C1 STEEL HEADER TO POST CONNECTION
N.T.S.



B1 METAL STUD BOX
N.T.S.



THICKNESS - LIGHT GAUGE STEEL COMPONENTS

DESIGNATION THICKNESS (MILS)	DESIGN THICKNESS (IN)	GAUGE
18	.0188	25
27	.0283	22
33	.0346	20
43	.0451	18
54	.0566	16
68	.0713	14
97	.1017	12
118	.1242	10

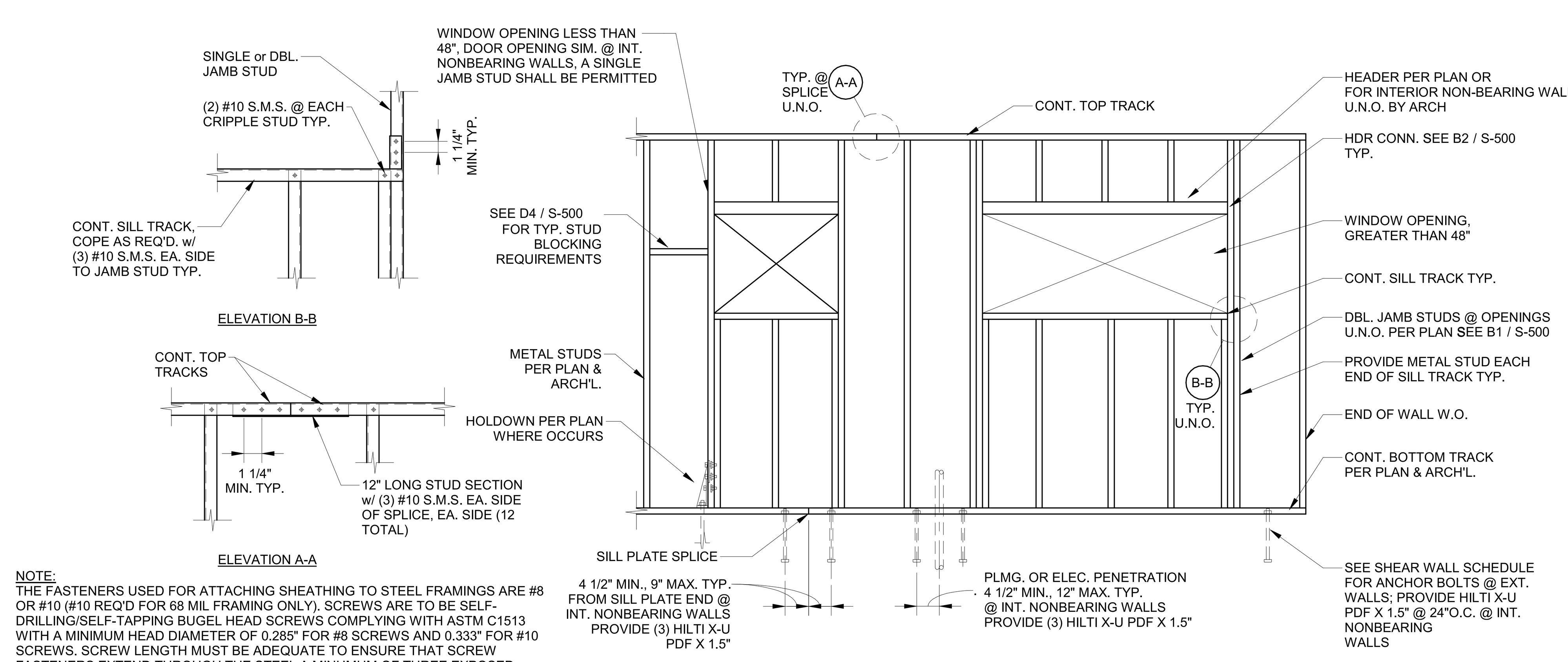
A5 LIGHT GAUGE METAL NOMENCLATURE

MINIMUM CONNECTION SCHEDULE

CONNECTION TYPE	MINIMUM CONNECTION HARDWARE
BRIDGING & BLOCKING TO STUDS EACH END	(2) #10 SMS FLANGE-TO-FLANGE -OR- 16GA CLIP W/ (2) #10 SMS EA LEG WEB-TO-WEB
STUD TO TOP TRACK	(2) #10 SMS FLANGE-TO-FLANGE
STUD TO SILL TRACK	(2) #10 SMS FLANGE-TO-FLANGE
METAL STUD TO WOOD STUD	(2) #10 SDS @ 24" O.C.;
DOUBLE STUDS, WEB SCREW	(2) #10 SMS @ 24" O.C.; ADD #10 SMS @ EDGE SCREW SPACING WHERE DBL STUD IS WITHIN A SHEAR WALL
BUILT-UP POSTS & JAMBS	SEE B3 / S-500
BUILT-UP HEADERS & SILLS	SEE B3 / S-500

NOTES:
1. ALL SCREWS SHALL BE PLACED SO THEY ARE MINIMUM 1.5 SCREW DIAMETERS FROM EDGE OF ANY CONNECTED MATERIAL
2. ALL SCREWS SHALL BE PLACED SO THEY ARE SPACED MINIMUM 3 SCREW DIAMETERS FROM NEAREST ADJACENT SCREW
3. SEE SPECS FOR ADDITIONAL FASTENER REQUIREMENT
4. SCREW LENGTH MUST BE ADEQUATE TO ENSURE THAT SCREW FASTENERS EXTEND THROUGH THE STEEL A MINUMUM OF THREE EXPOSED THREADS.

A4 FASTENING SCHEDULE



NOTE:
THE FASTENERS USED FOR ATTACHING SHEATHING TO STEEL FRAMINGS ARE #8 OR #10 (#10 REQ'D FOR 68 MIL FRAMING ONLY). SCREWS ARE TO BE SELF-DRILLING/SELF-TAPPING BUGEL HEAD SCREWS COMPLYING WITH ASTM C1513 WITH A MINIMUM HEAD DIAMETER OF 0.285" FOR #8 SCREWS AND 0.333" FOR #10 SCREWS. SCREW LENGTH MUST BE ADEQUATE TO ENSURE THAT SCREW FASTENERS EXTEND THROUGH THE STEEL A MINUMUM OF THREE EXPOSED THREADS. SCREWS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING. SEE A4 / S-600 FOR ADDT'L INFORMATION.

A2 TYP. METAL STUD WALL CONSTRUCTION
N.T.S.

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STATE OF MISSOURI
DAVID F. BATSON
NUMBER PE-2021040673
PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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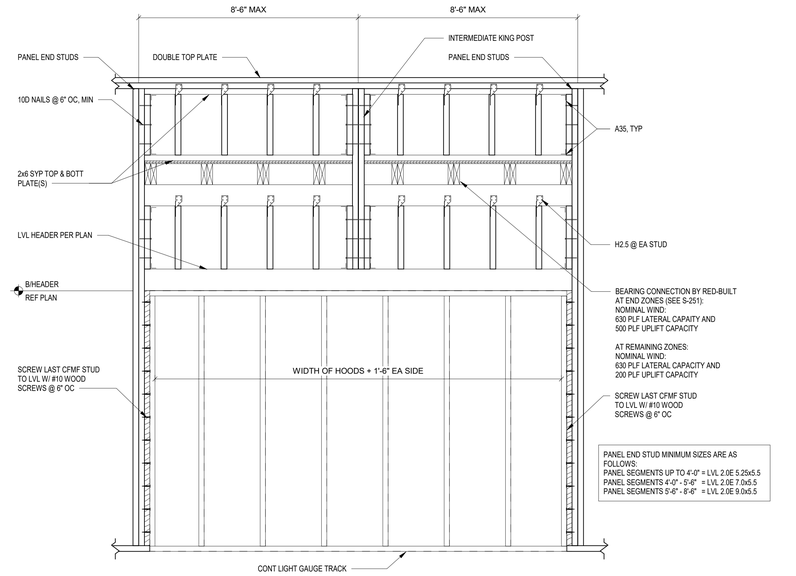
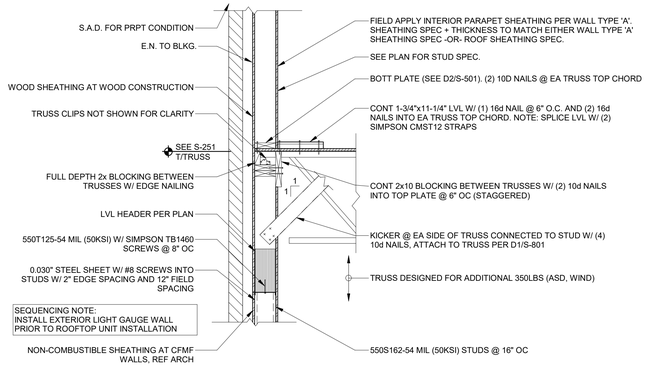
SHEET
TYPICAL STEEL FRAMING DETAILS

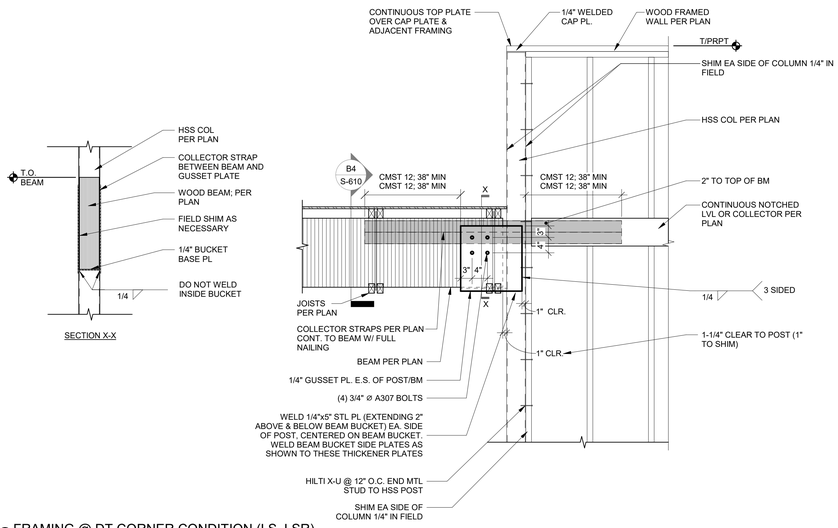
SHEET NUMBER
S-500



D2 PLATFORM FRAMING AT LOAD BEARING HOOD WALLS RB
3/4" = 1'-0"



A3 TYP. TRUSS TO WOOD CONNECTION @ PLATFORM FRAMING_RB
3/4" = 1'-0"



A2 FRAMING @ DT CORNER CONDITION (LS, LSR)
3/4" = 1'-0"

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STATE OF MISSOURI
DAVID F. DAWSON
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PROFESSIONAL ENGINEER

11-18-2024

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
STEEL FRAMING DETAILS

SHEET NUMBER
S-501

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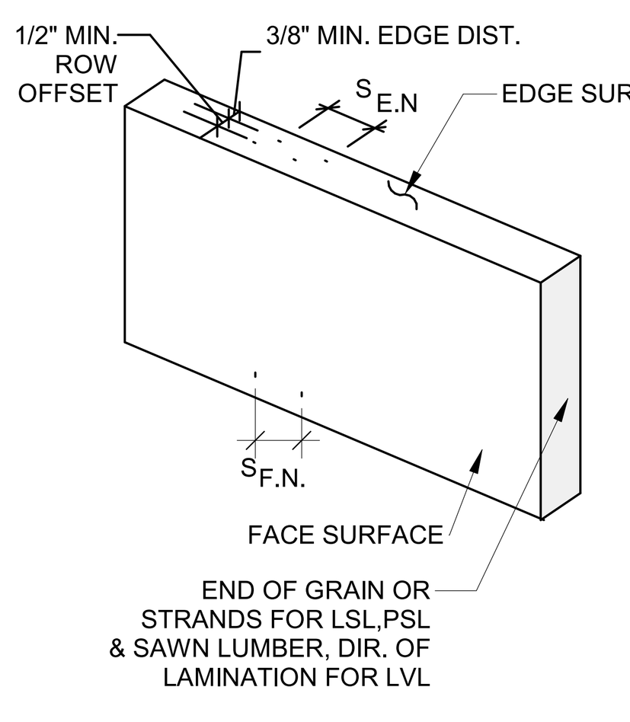
20-LSR-05248-S-501-STEEL FRAMING DETAILS

MINIMUM NAIL SPACING						
NAIL TYPE	1 1/2" THK. MIN. PSL		1 1/2" THK. MIN. LSL		1 1/2" THK. MIN. SAWN LUMBER	
	$S_{E.N}$	$S_{F.N}$	$S_{E.N}$	$S_{F.N}$	$S_{E.N}$	$S_{F.N}$
8d BOX	3"	2"	3"	2"	2"	4"
8d COMMON	3"	2"	3"	2"	2"	6"
10d BOX	4"	2"	4"	2"	2"	6"
10d COMMON	4"	3"	4"	2 1/2"	2 1/2"	6"
12d BOX	4"	2"	6"	2"	2"	6"
12d COMMON	4"	3"	6"	2 1/2"	2 1/2"	6"
16d BOX	4"	3"	6"	2 1/2"	2 1/2"	6"
16d SINKER	4"	3"	6"	2 1/2"	2 1/2"	6"
16d COMMON	6"	4"	6"	3"	4"	8"



NOTES:

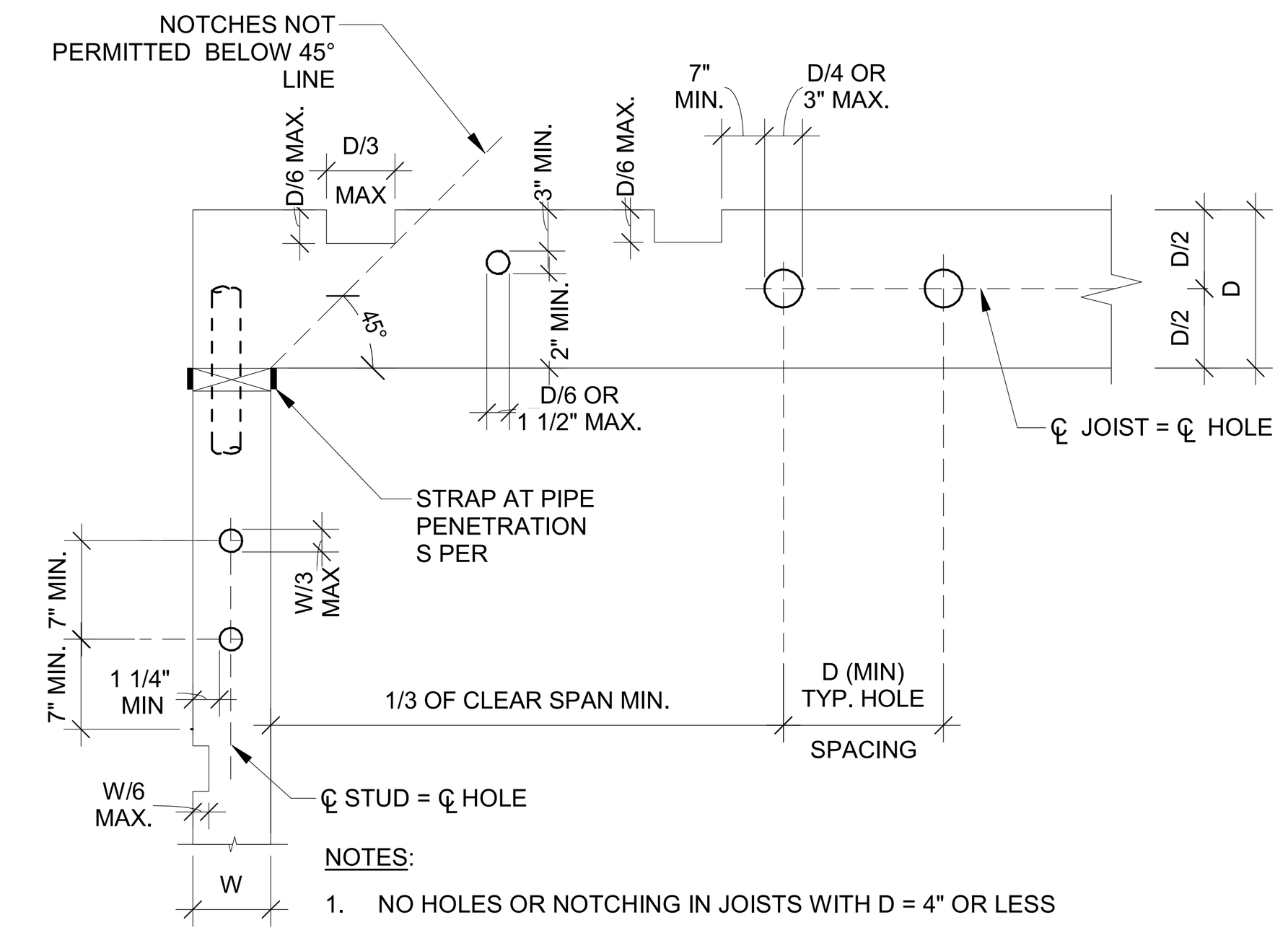
1. LVL, PSL, LSL SEE MFG LITERATURE FOR ADDITIONAL INFO
2. FOR MULTIPLE ROWS, 10d COMMON MAXIMUM SIZE FASTENER @ MINIMUM 3" O.C. STAGGERED & OFFSET ROWS BY MINMUM 1/2"

D4 MINIMUM NAIL SPACING SCHEDULE
N.T.S.

TYP. INTERIOR NON BEARING WOOD HEADER SCHEDULE			
OPENING WIDTH	**2X4 STUDS**	**2X6 STUDS**	**2X8 STUDS**
X ≤ 4.5	4X4	6X4 FLAT	8X4 FLAT
4.5 < X ≤ 5.5	4X6	6X4 FLAT	8X4 FLAT
5.5 < X ≤ 7	4X6	6X6	8X6 FLAT
7 < X ≤ 8	4X8	6X6	8X6 FLAT
8 < X ≤ 9.5	4X8	6X8	8X6 FLAT
9.5 < X ≤ 10	4X8	6X8	8X8
10 < X ≤ 12	4X10	6X10	8X8
12 < X ≤ 14	4X12	6X10	8X10
15 < X ≤ 15	4X14	6X10	8X10

NOTE: SEE A1 / S-601 FOR TYP. INTERIOR HEADER ATTACHMENTS

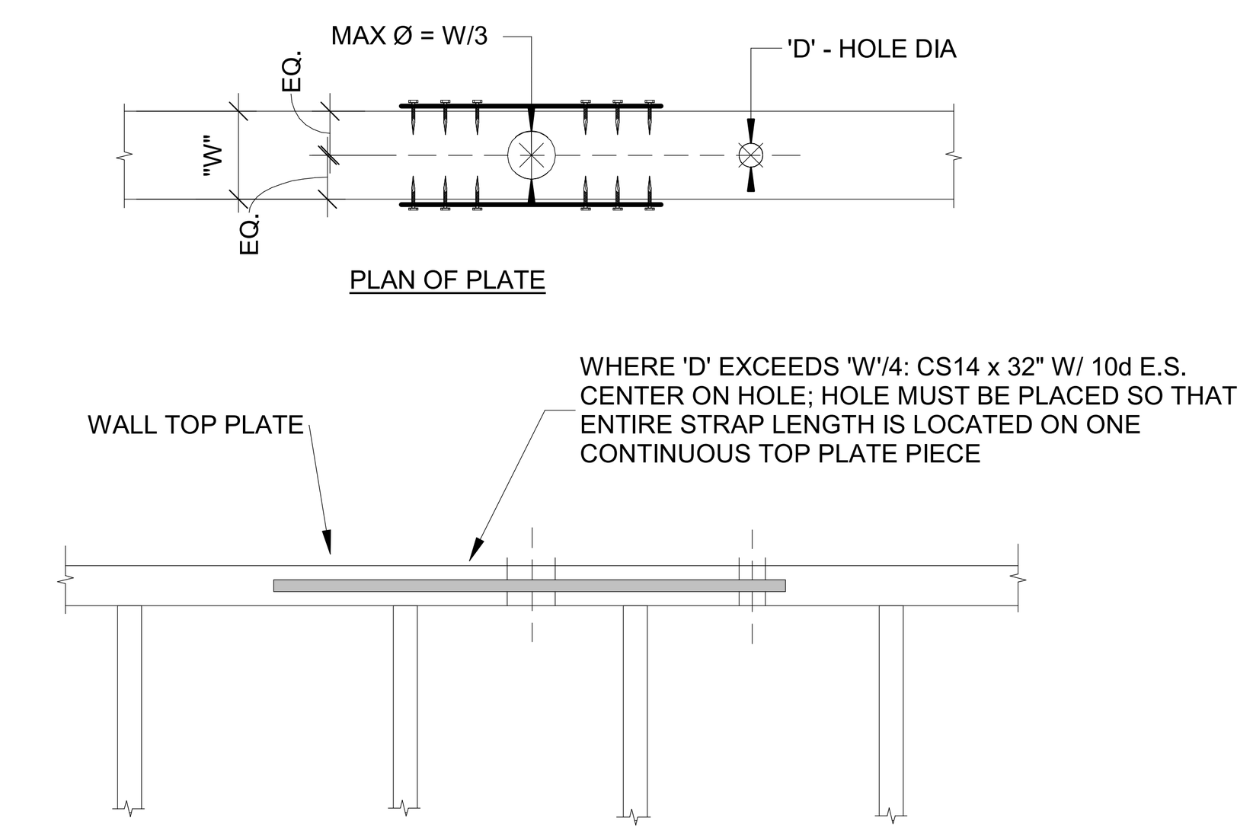
D3 INTERIOR HEADER SCHEDULE



NOTES:

1. NO HOLES OR NOTCHING IN JOISTS WITH D = 4" OR LESS
2. WALL NOTCHES ARE ONLY PERMITTED ON INTERIOR NON- BEARING WALLS
3. NOTCHES ARE NOT ALLOWED IN MIDDLE THIRD OF BEAM SPAN
4. AT DT DOOR HDR, DRILL A 1" DIA. VERT HOLE THRU CENTER OF HDR AT NO MORE THAN 6" FROM SUPPORT FOR CONDUIT ROUTING

D2 TYP. HOLES AND NOTCHES IN SAWN LUMBER
1" = 1'-0"



NOTES:

1. THIS DETAIL APPLIES UNLESS SPECIFICALLY NOTED OTHERWISE
2. DETAIL SIM. AT SOLE & SILL PLATE PENETRATIONS
3. PLATE HOLE SHALL NOT INTERFERE WITH COLLECTOR STRAPS SHOWN ON PLAN
4. SPRAY-APPLY PRESERVATIVE TREATMENT TO ANY CUTS, HOLES AND NOTCHES IN TREATED SILLS

D1 TYP. HOLES IN PLATES AND SILLS
1" = 1'-0"

1. STUDS, JOISTS, HEADERS, ETC.

NAILING SCHEDULE		
CONNECTION	FASTENER*	NUMBER OR SPACING
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2
JOIST TO SILL OR GIRDER TOE NAIL	8D COMMON	3
1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	8D COMMON	2
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	8D COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	16D COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD	2x PLATES: (3) 10D COMMON END NAIL OR (3) 8D LONG TOE NAIL AT TOP PLATE OR (4) 8D LONG TOE NAIL AT SILL PLATE 3x PLATES: (3) 10D LONG END NAIL OR (5) 8D LONG TOE NAIL	
DOUBLED STUDS, FACE NAIL	10D COMMON	18" O.C.
DOUBLED 2x BOTTOM PLATES, FACE NAIL	10D COMMON	DOUBLE SIDED EXT SHEATHING: MATCH THE WALL EDGE NAILING O.C. SPACING ALL ELSE: DOUBLE THE WALL EDGE NAILING O.C. SPACING
DOUBLED TOP PLATES, FACE NAIL	10D COMMON	12" O.C.
BLOCKING BETWEEN JOISTS TO TOP PLATE. TOE NAIL	8D COMMON	3
RIM JOIST TO TOP PLATE, TOE NAIL	8D COMMON	6" O.C.
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	16D COMMON	2
CONTINUOUS HEADER, TWO PIECES	10D COMMON	12" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATES, TOE NAIL	8D COMMON	3
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	4
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16D COMMON, MIN	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16D COMMON, MIN	3
RAFTER TO PLATE, TOE NAIL	8D COMMON	3
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	3
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILT-UP CORNER STUDS EACH BEARING, FACE NAIL	10D COMMON	18" O.C.
BUILT-UP GIRDERS & BEAMS, FACE NAIL	20D COMMON	32" O.C. AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
2-INCH PLANKS	16D COMMON	AT EACH BEARING
JOIST TO BAND JOIST, FACE NAIL	16D COMMON	3
LEDGER STRIP, FACE NAIL	16D COMMON	3 AT EACH JOIST
SHEATHING BLOCKING TO STUD	EACH END OF BLOCKING: (3) 8D LONG END NAIL OR (2) 8D LONG TOE NAIL OR (6) 16GA WIRE STAPLES	

*NOTE: ALL 8D COMMON CALLOUTS MAY USE 8D LONG AS AN ALT. ALL 10D COMMON CALLOUTS MAY USE 10D LONG AS AN ALT.

2. SHEATHING @ NON-SHEAR WALL LOCATIONS:

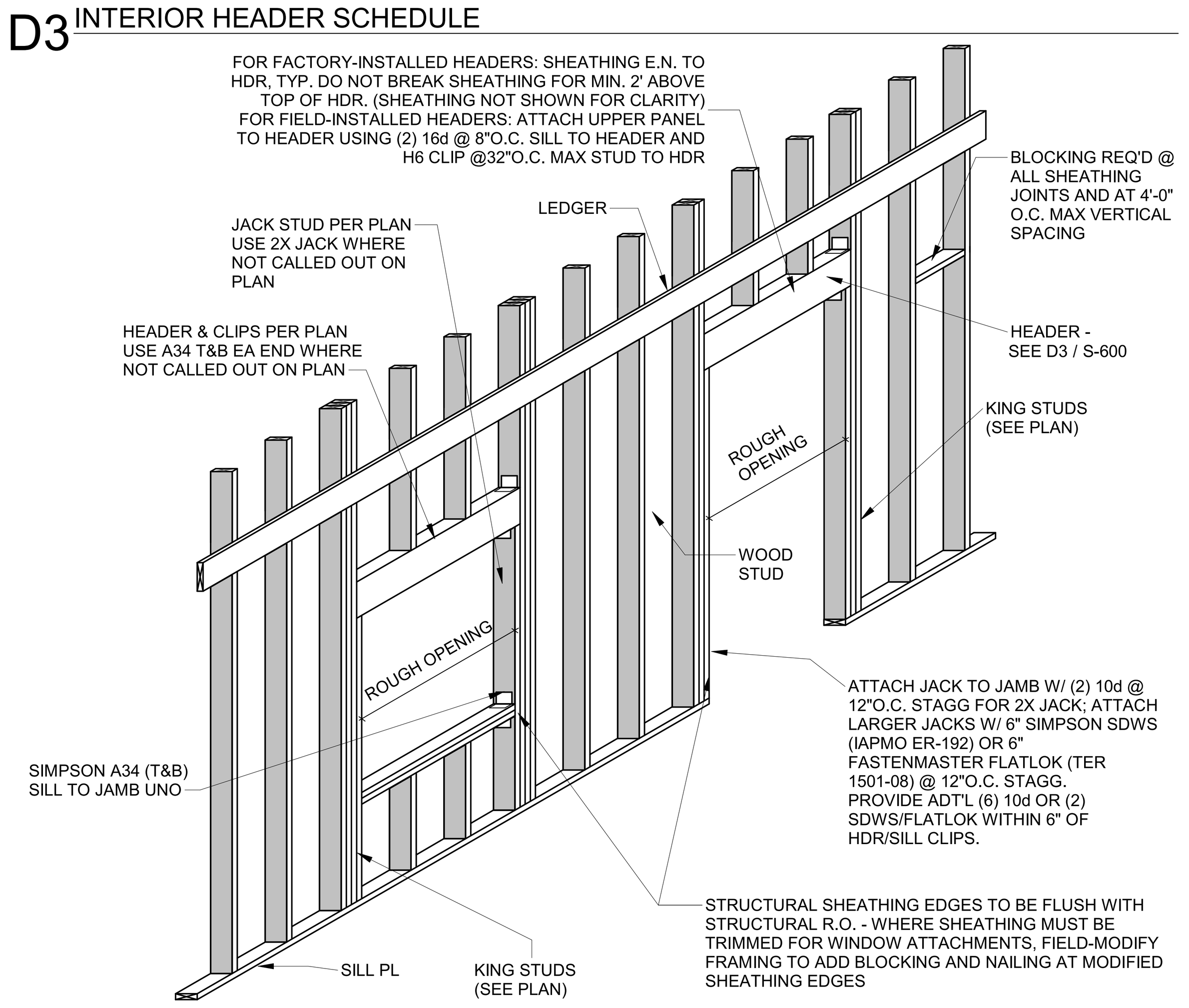
PLYWOOD AND O.S.B. BOARD WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" OR LESS	10D SHORT	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
5/16", 1/2"	16 GA GALVANIZED WIRE STAPLES, 3/8" MINIMUM CROWN	4" O.C. EDGES AND 8" O.C. INTERMEDIATE

FIBERBOARD AND GYPSUM WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL 6D COMMON WALL	3" O.C. AT EDGES / 6" O.C. AT OTHER BEARING
1/2" GYPSUM SHEATHING	11 GA 1 1/2" GALVANIZED 7/16" HEAD	4" O.C. AT EDGES / 8" O.C. AT OTHER BEARING
1/2" GYPSUM WALLBOARD	1 3/8" DRY- WALL NAIL	7" O.C. ON CEILING / 8" O.C. ON WALLS

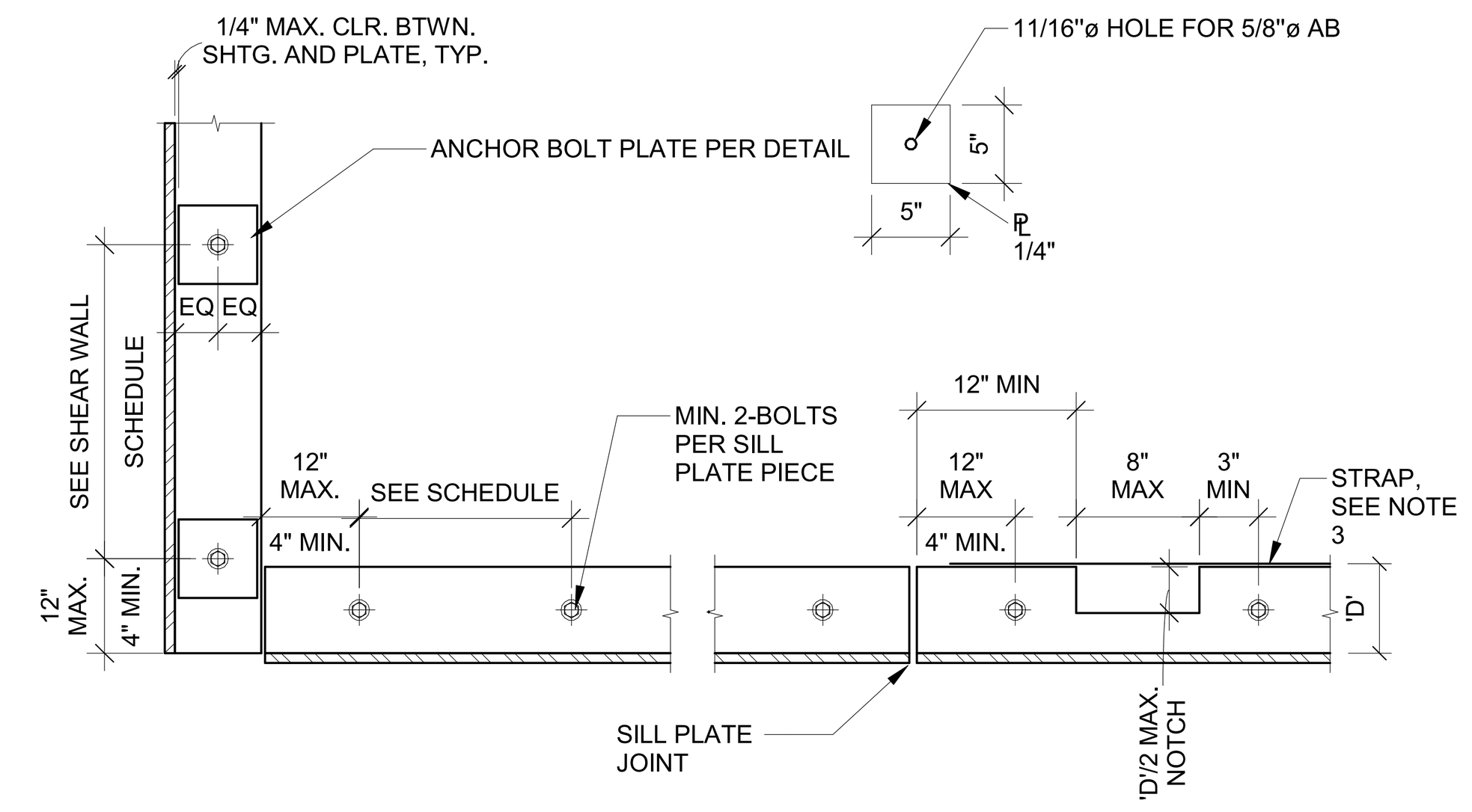
NOTES:

1. FOR ALL EXTERIOR WOOD STUD WALLS NOT DESIGNATED AS SHEAR WALLS PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 10D NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES).
2. FOR ALL EXTERIOR METAL STUD WALLS NOT DESIGNATED AS SHEAR WALLS ATTACH PANELS w/ #8 SCREWS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES). SEE ARCH FOR PANEL MATERIAL.
3. PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 10d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD FOR EAVES AND CANOPY CEILINGS.

A4 NAILING SCHEDULE



C3 STRUCTURAL FRAMING
N.T.S.

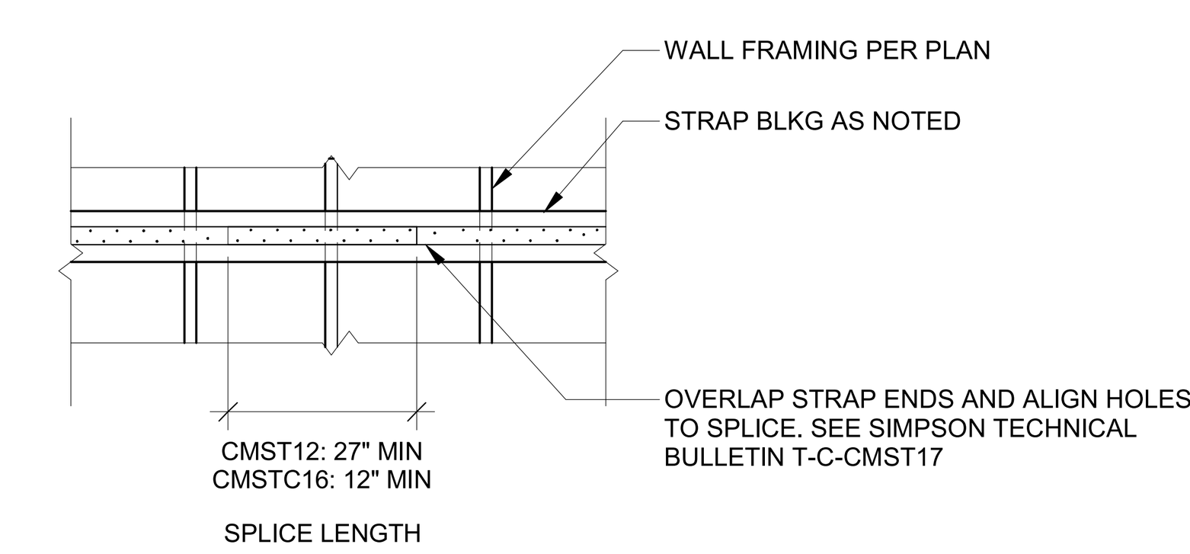


ACHORAGE DETAIL

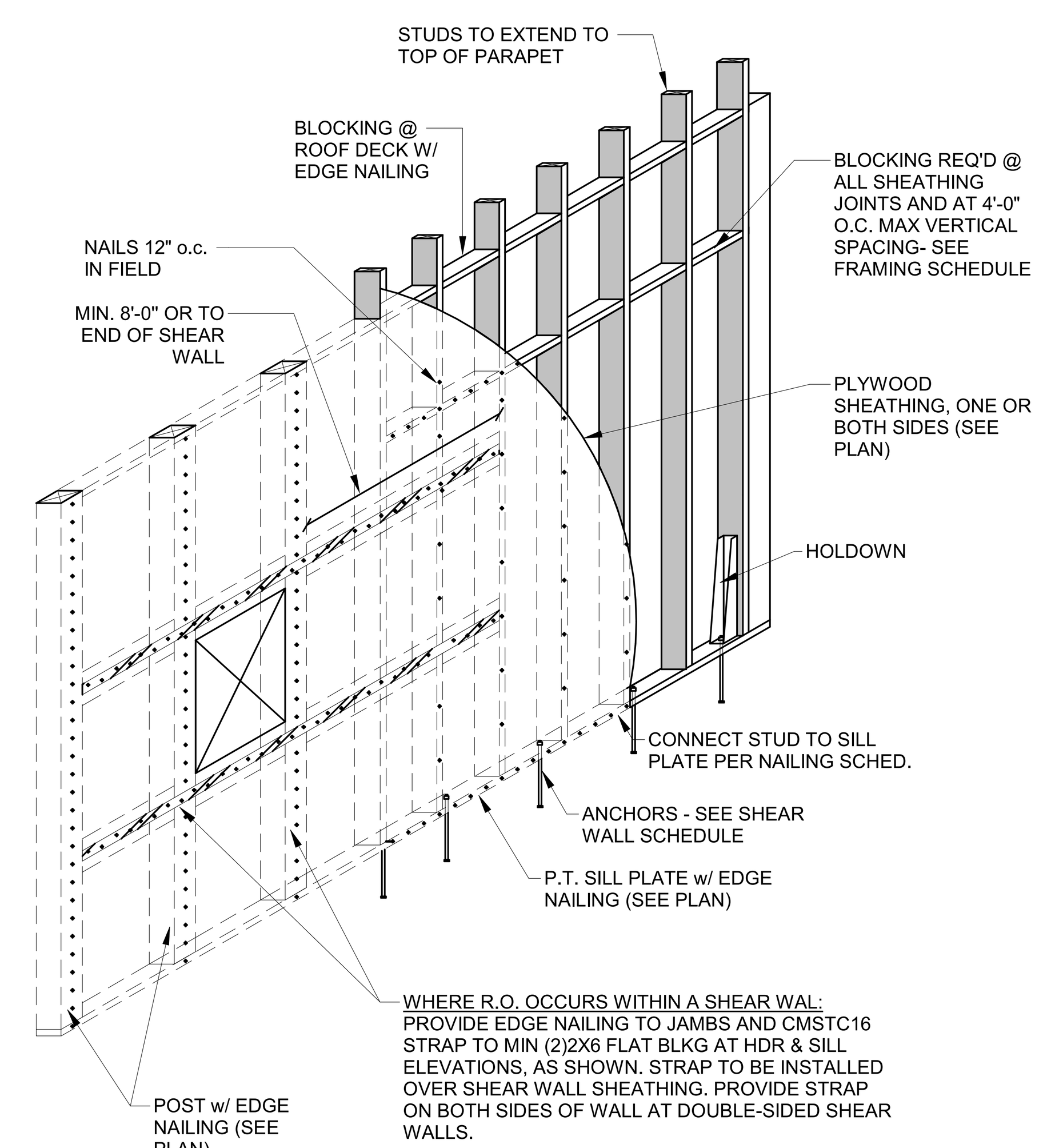
NOTES:

1. IF END DISTANCE REQUIREMENTS CANNOT BE ACHIEVED AS SHOWN, USE SIMPSON LMA6Z SILL CONNECTOR TO SATISFY AT 6x WALLS; (2) MASB TO SATISFY AT 8x WALLS. TOTAL NUMBER OF ANCHOR BOLTS SHALL NOT BE ALTERED.
2. ANCHORAGE SHOWN FOR STRUCTURAL WALLS ONLY. S.A.D. FOR PARTITION ANCHORAGE.
3. PROVIDE REINFORCING STRAP CS14 AT ALL SILL NOTCHES > 'D'/4. EXTEND STRAP MIN 32" PAST EACH END OF NOTCH. USE 50% NAILING AND HDG NAILS TO PT SILL.

C2 TYP. SILL BOLTING LAYOUT
1" = 1'-0"



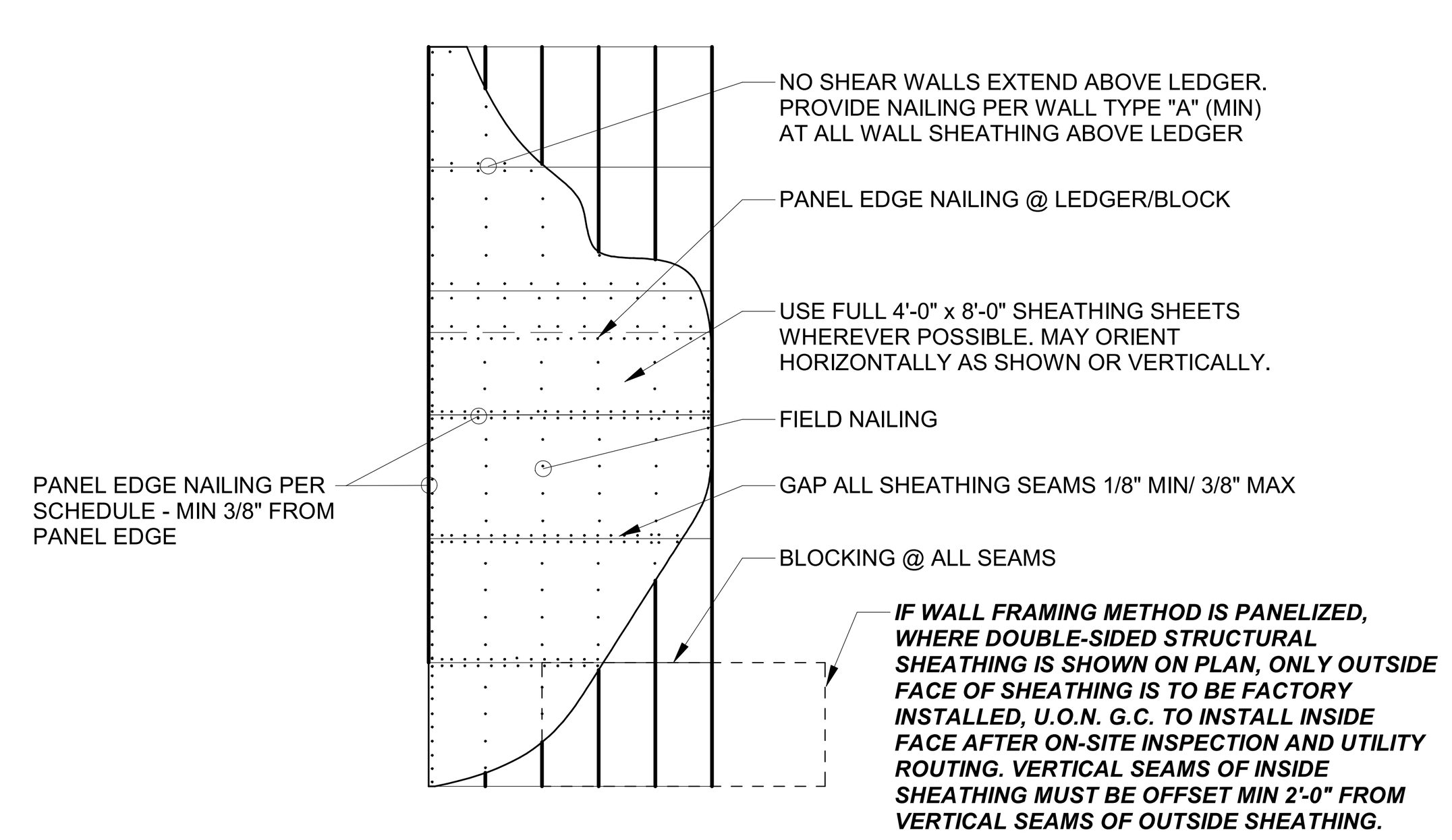
C1 SPLICE DETAIL
3/4" = 1'-0"



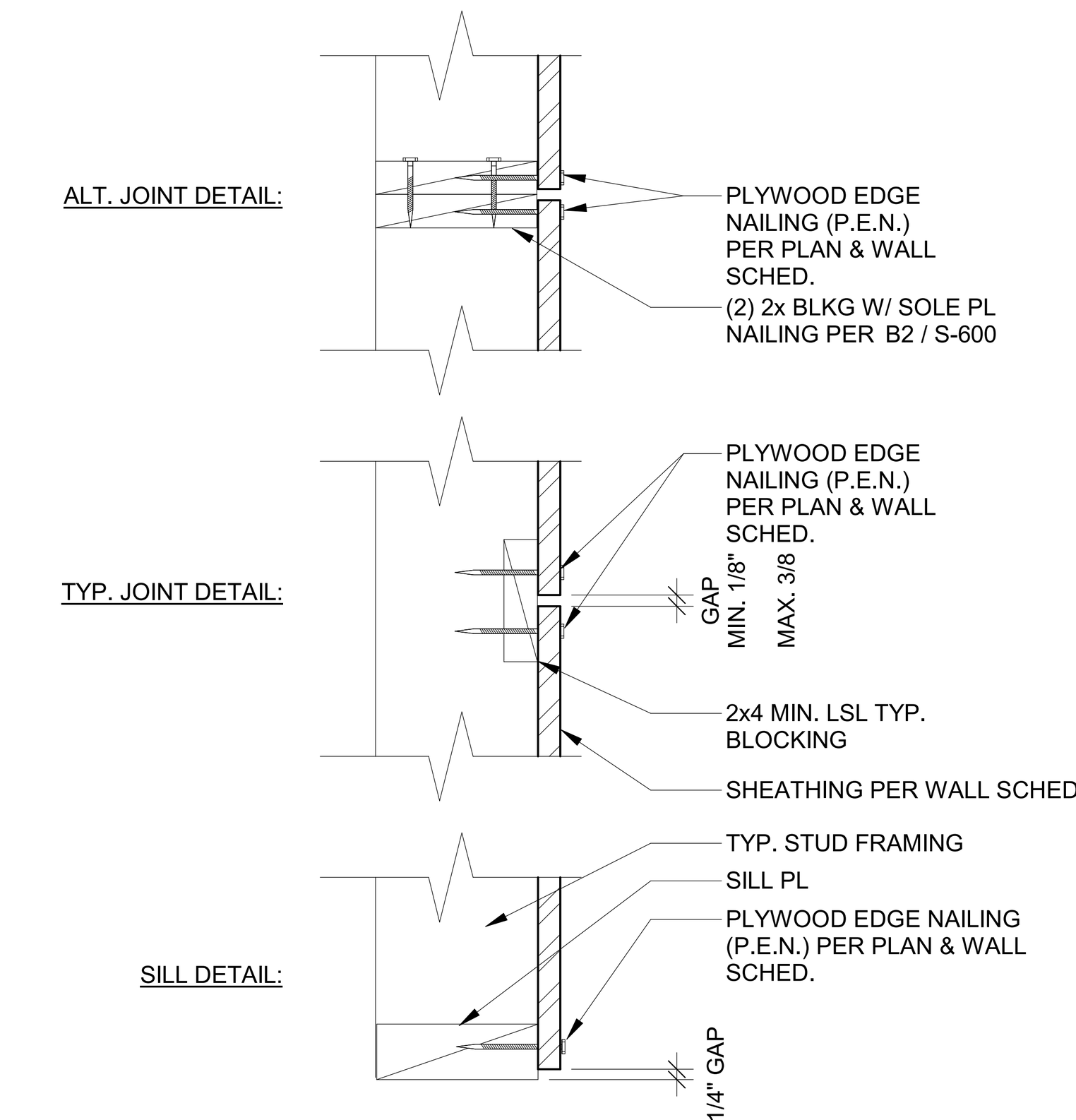
NOTES:

1. PRIOR TO CONSTRUCTING WALL, REVIEW LATEST DIMENSIONED ARCHITECTURAL DRAWINGS AND NOTIFY ENGINEER OF ANY LOCATIONS WHERE MINIMUM SHEAR WALL LENGHTS WILL NOT BE MET. MINIMUM LENGTHS BASED ON OUT TO OUT FACE OF TIEDOWN POSTS. WHERE NO TIEDOWN OCCURS, DIMENSION BASED ON EDGE OF ROUGH OPENING OR END OF WALL.
2. INDICATED SHEATHING, WALL FRAMING, AND NAILING IN THIS SCHEDULE APPLY TO ALL STRUCTURAL WALLS AS DESIGNATED.
3. NAILS AT ALL PANEL EDGES SHALL BE STAGGERED WITH 1/2" OFFSET BETWEEN ADJACENT FASTENERS IN A ROW.
4. 0148" Ø x 2-1/2" MIN LENGTH NAIL MAY BE USED IN LIEU OF 10d COMMON FOR ALL SHEATHING NAILING. NAILS MUST BE DRIVEN FLUSH WITHOUT OVER-DRIVING THROUGH SURFACE OF SHEATHING.
5. PROVIDE 10d @ 12" O.C. FIELD NAILING AT WALL SHEATHING, TYP.
6. SEE PLANS FOR SHEARWALL TIEDOWN SIZE AND LOCATION.
7. PLACE SHEATHING ON SIDE OF WALL WHERE SYMBOL IS SHOWN ON PLAN.
8. FOR TYPICAL WALL FRAMING, SEE STRUCTURAL ELEVATIONS.
9. WHERE WALL HEIGHT DICTATES HORIZONTAL SHEATHING JOINTS AT WALL, PROVIDE BLOCKING PER B1 / S-600
10. SHEATHING THICKNESS IS NOMINAL, ACTUAL THICKNESS EQUIVALENTS ARE: 1/2"= 15/32"; 5/8"= 19/32"; 3/4"=23/32".
11. WALL SCHEDULE IS BASED ON DOUG FIR-LARCH OR SOUTHERN YELLOW PINE STUDS, SOLE PLATES AND PRESSURE TREATED SILL PLATES. ANY ALTERNATE SPECIES OR MATERIALS MUST BE APPROVED BY ENGINEER.
12. ANCHOR BOLTS SHALL BE 5/8" Ø (MIN.). PROVIDE 1-1/2" MAX DIAMETER OVERSIZED HOLE IN SILL TO RECEIVE EACH ANCHOR U.O.N.
13. WALLS DESIGNATED ON THE PLANS FOR A SPECIFIC NAILING PATTERN MAY BE NAILED AT A CLOSER SPACING WITH DBL. 2x STUDS AT PLWD JOINTS AS NOTED. OTHER COMPONENTS OF WALL ASSEMBLY DO NOT HAVE TO BE INCREASED BEYOND THE REQUIREMENTS FOR THE WALL DESIGNATED ON THE PLANS.
14. NO HOLES OR PENETRATIONS ARE PERMITTED IN ANY SHEAR WALL SHEATHING.
15. NAILS INTO P.T. SILL PLATES AND OTHER P.T. LUMBER MUST BE H.D.G.
16. MIN. (4) SILL ANCHOR BOLTS PER SHEAR WALL
17. PROVIDE FULL 4' X 8' SHEETS OF SHEATHING EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING

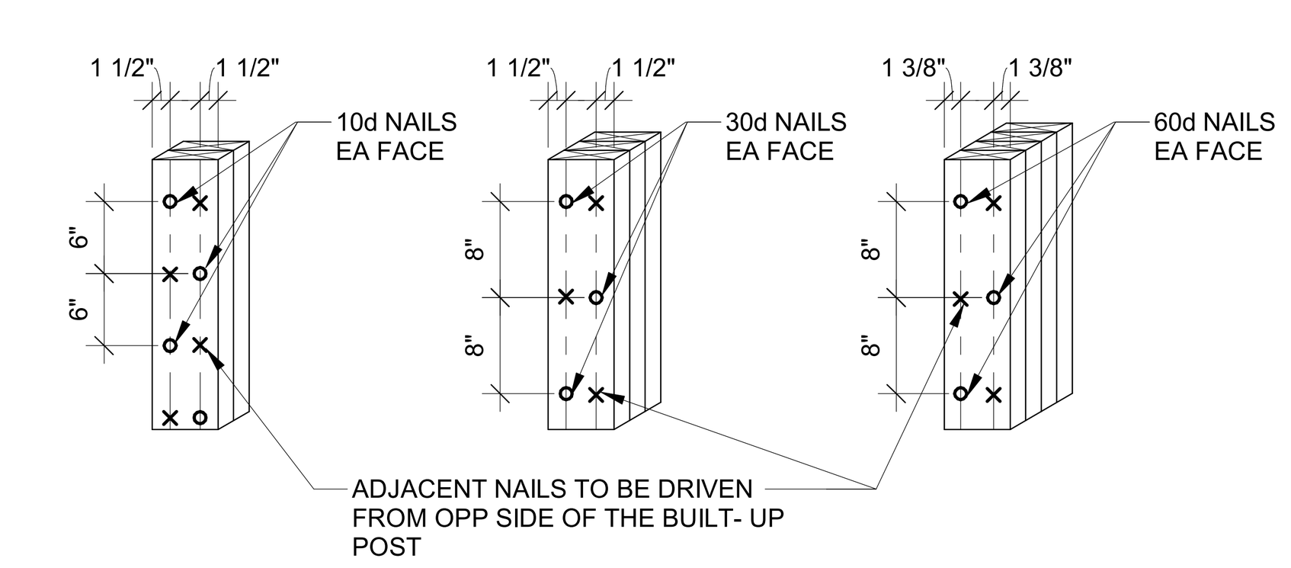
A3 TYP. FORCE-TRANSFER SHEAR WALL
N.T.S.



B2 TYP. SHEAR WALL SHEATHING
N.T.S.



B1 TYP. HORZ. SHEATHING JOINTS
1 1/2" = 1'-0"



A1 BUILT UP POST DETAIL
3/4" = 1'-0"

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Atlanta, Georgia
30349-2998

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11-18-2024

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SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

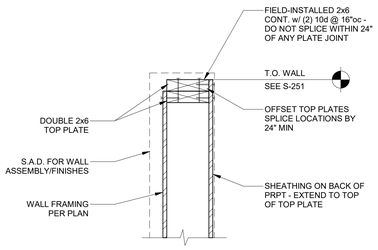
NO.	DATE	DESCRIPTION

- Issued For Permit -

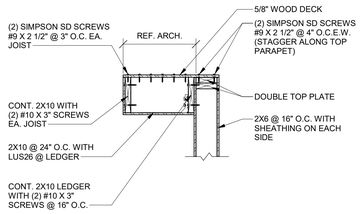
CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
TYPICAL WOOD FRAMING DETAILS

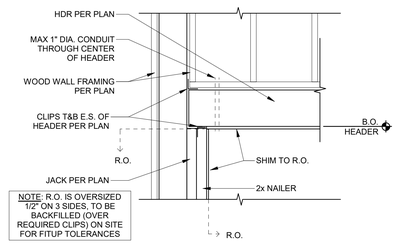
SHEET NUMBER
S-600



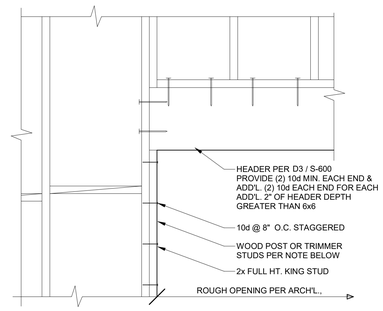
A4 TYP. PARAPET HEAD CONDITION
1 1/2" = 1'-0"



A3 HEAD CONDITION - PARAPET W/ CAP
3/4" = 1'-0"



A2 BI-PARTING SERVICE DOOR HEADER DTL.
3/4" = 1'-0"



A1 TYP. HEADER AT INT. FRAMING
1" = 1'-0"

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STATE OF MISSOURI
DAVID F. DAWSON
NUMBER PE-2021045810
PROFESSIONAL ENGINEER

11-18-2024

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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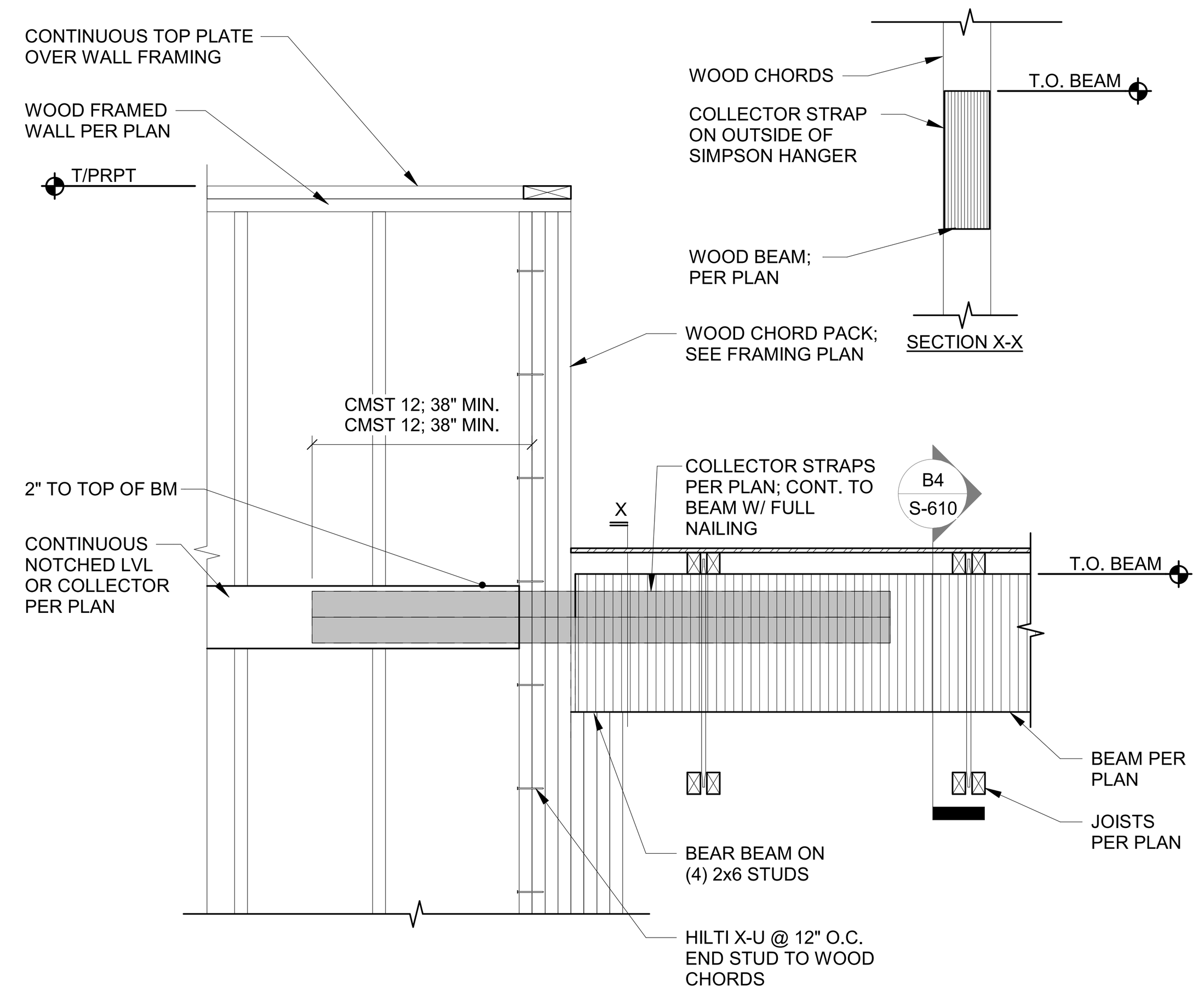
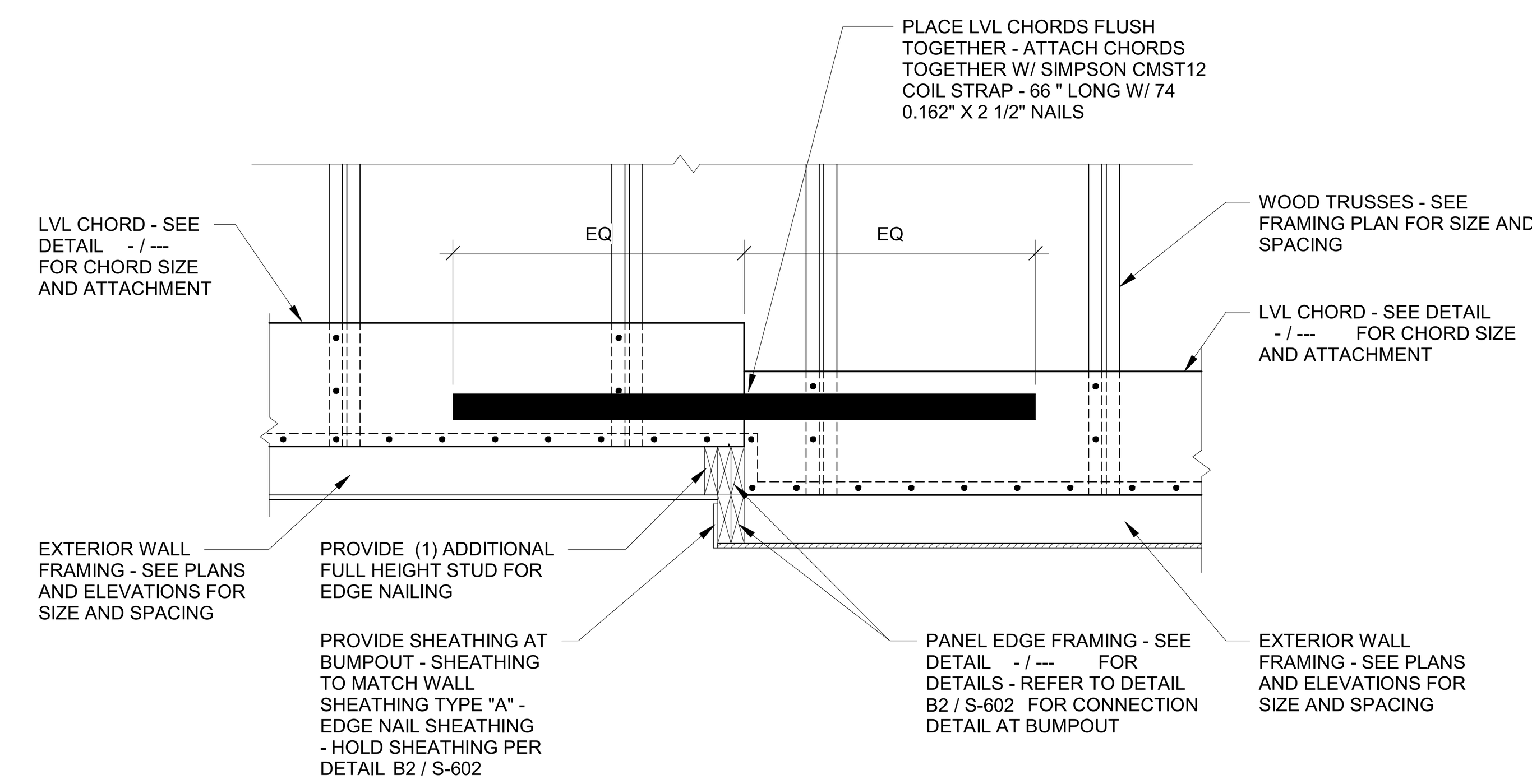
SHEET
TYPICAL WOOD FRAMING DETAILS

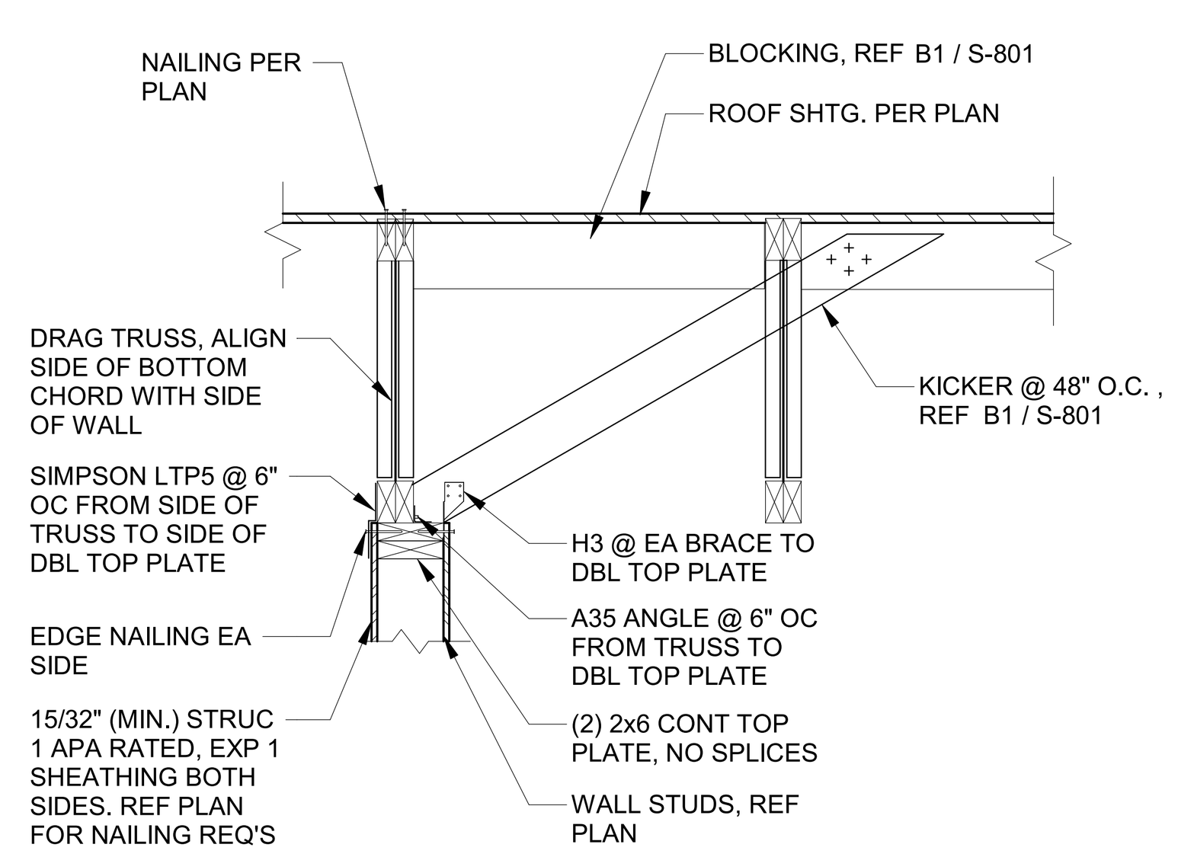
SHEET NUMBER
S-601



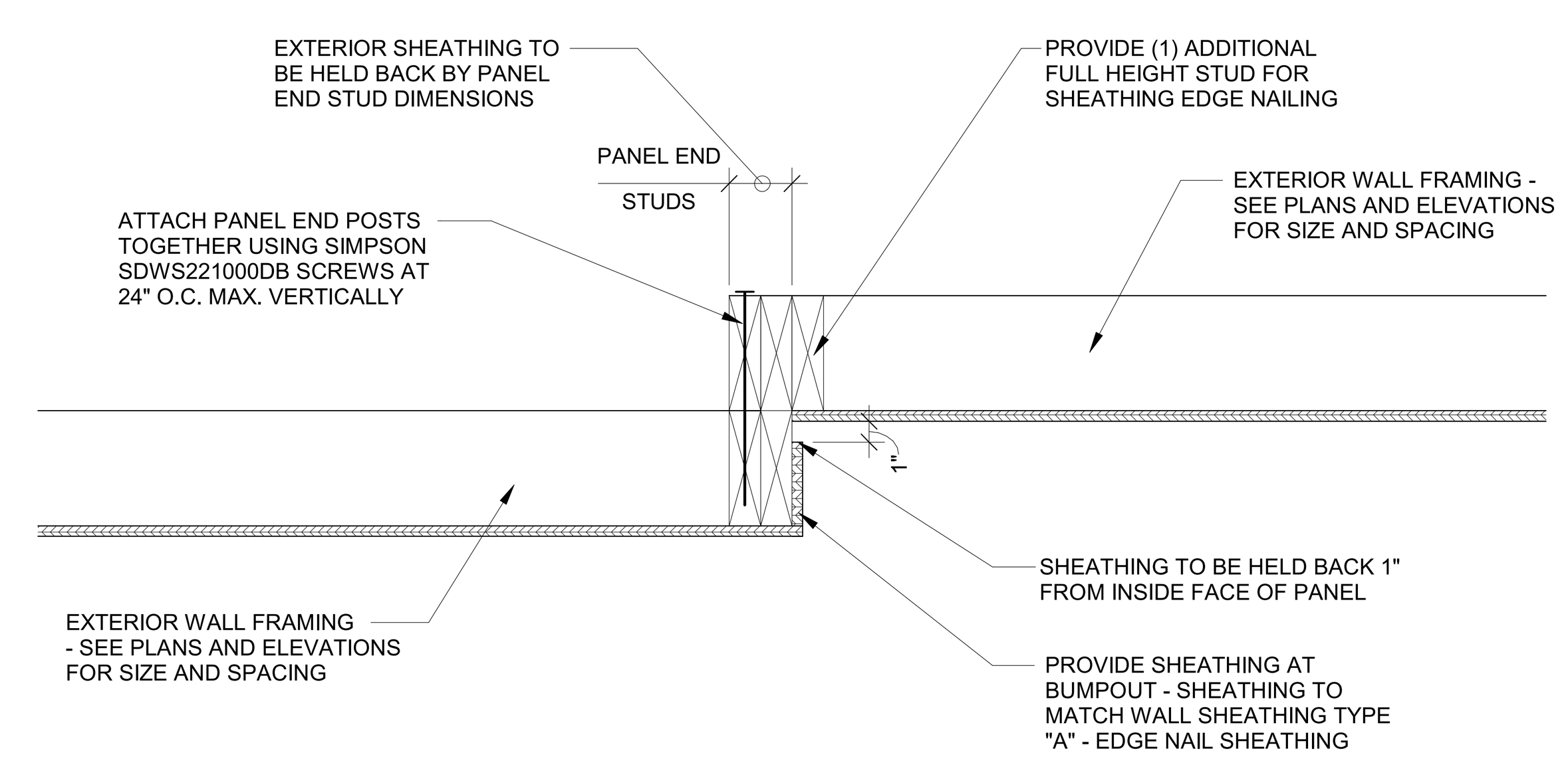
D3 FRAMING @ BUMP OUT CORNER PARALLEL WALL W/ WOOD CHORDS
3/4" = 1'-0"



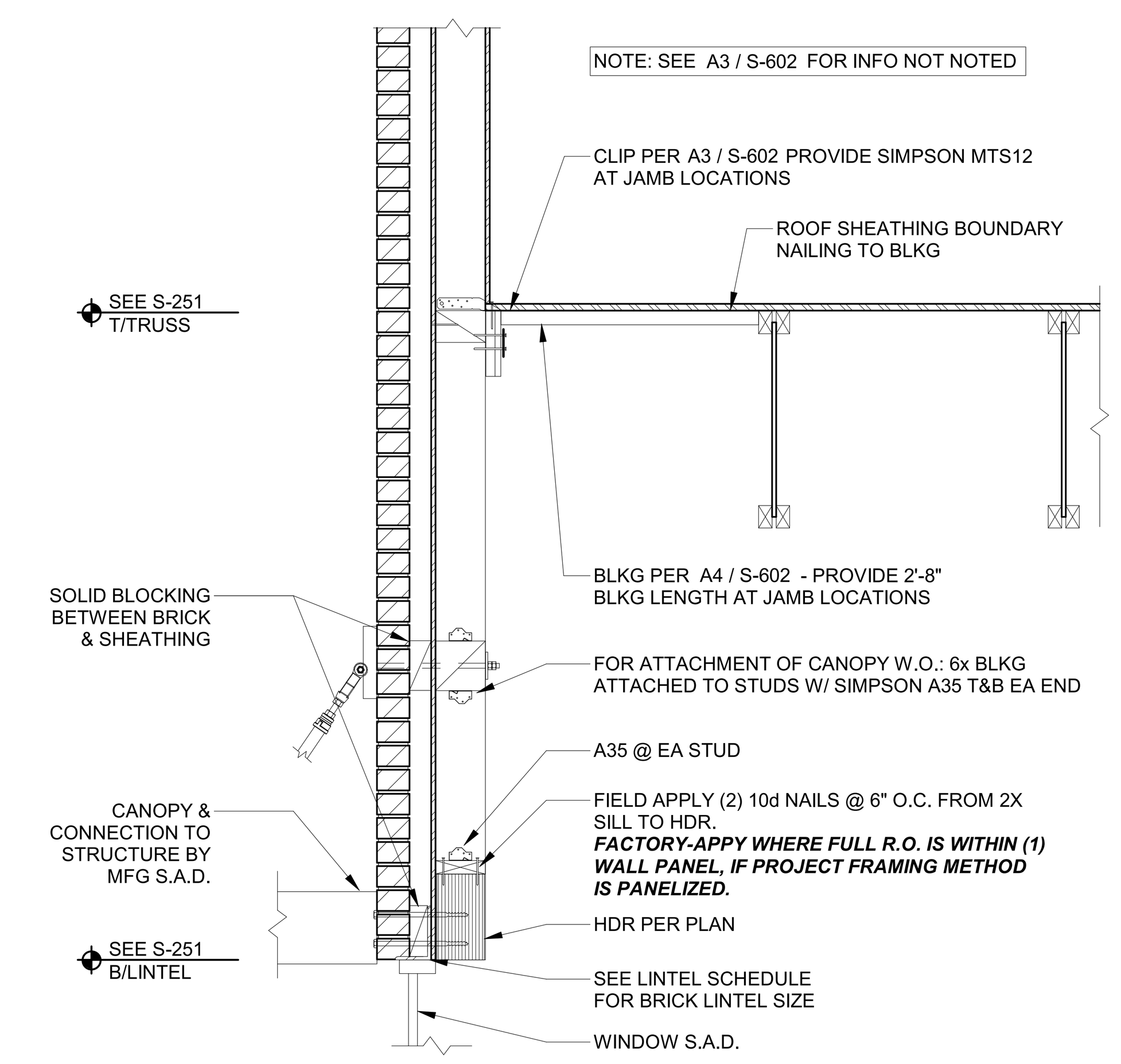
D1 LVL CHORD SPLICE AT BUMPOUT
3/4" = 1'-0"



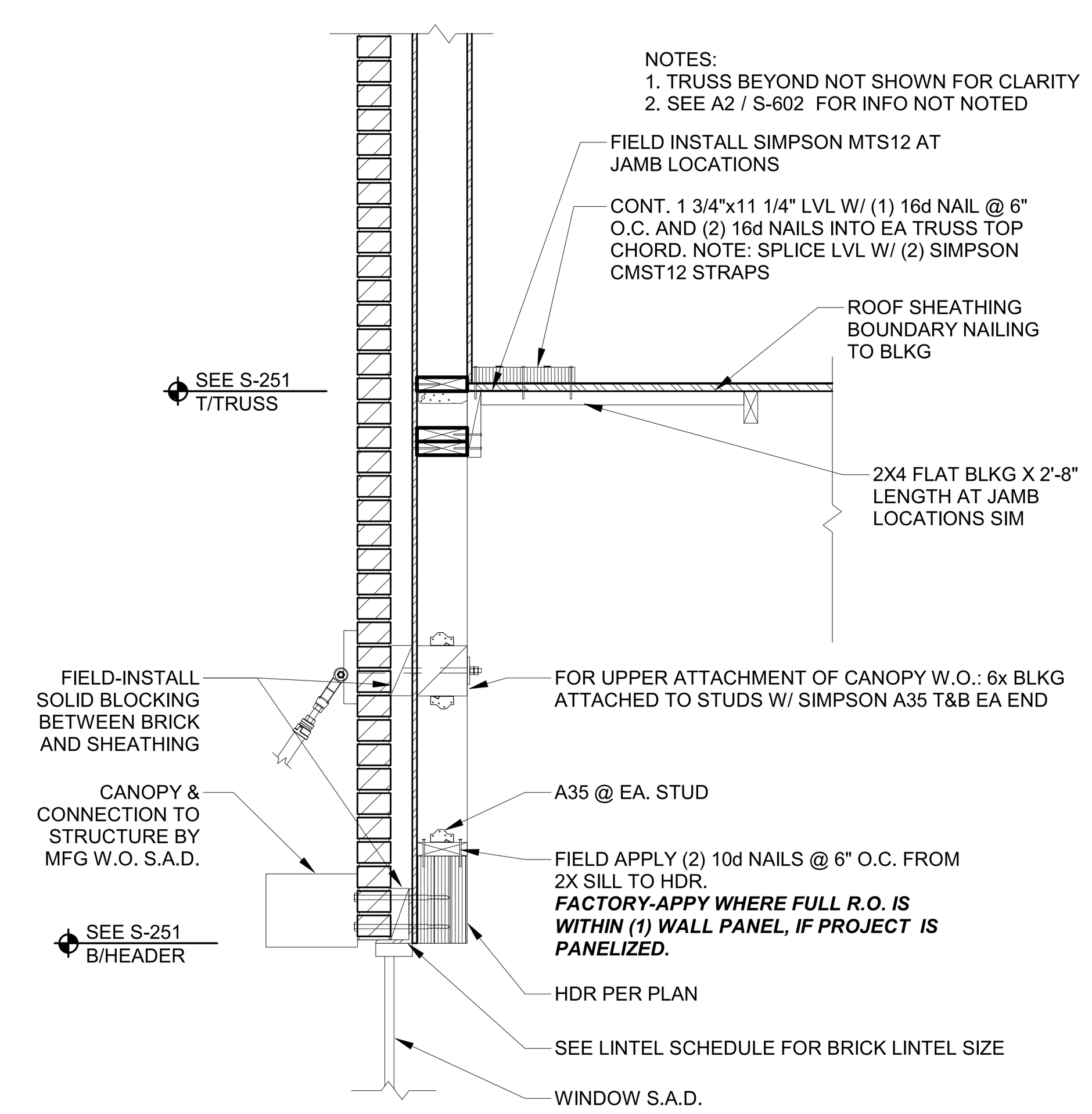
B3 TYP. DRAG TRUSS BRACING
3/4" = 1'-0"



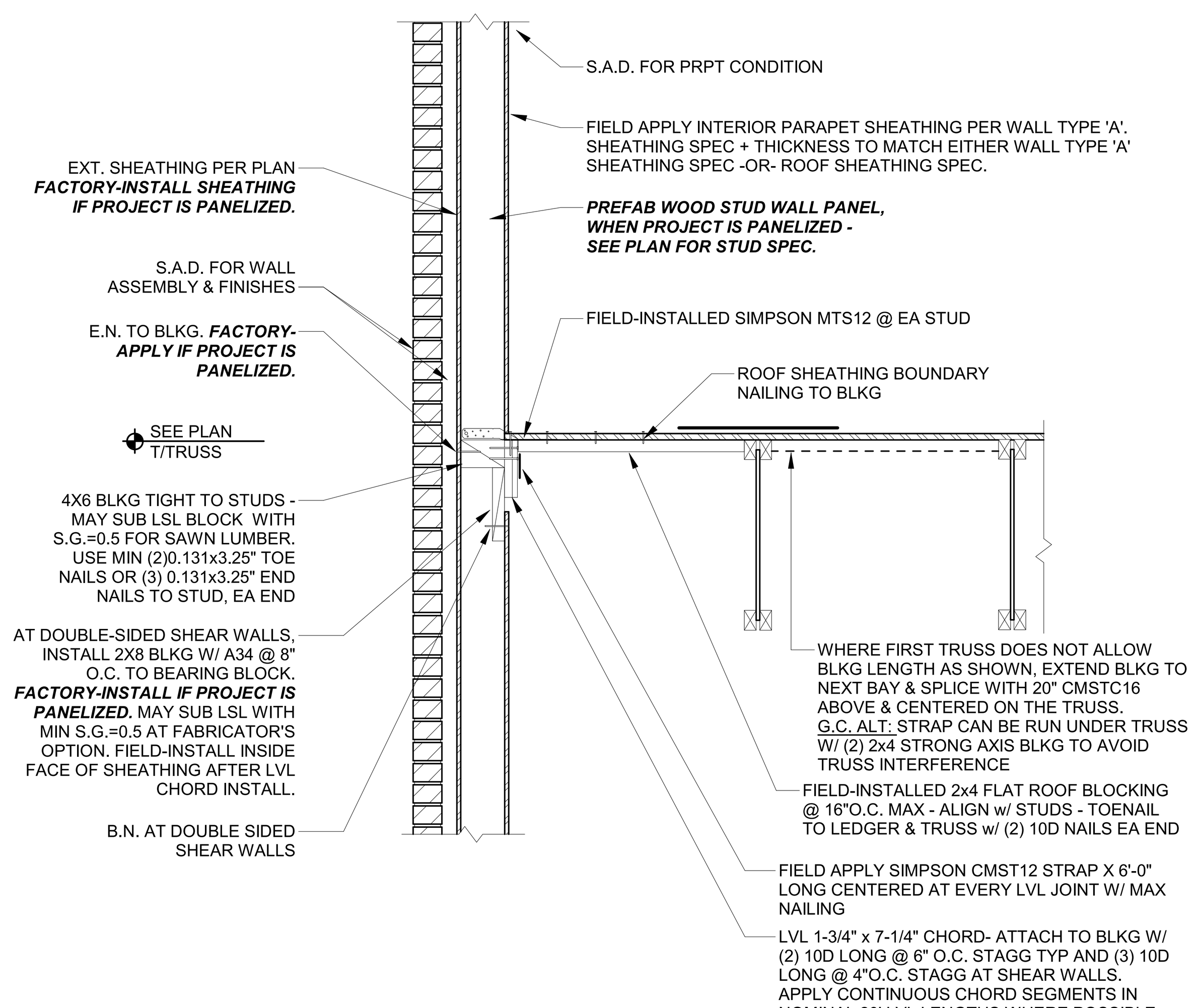
B2 EDGE OF PANELS AT BUMPOUT LOCATIONS
1 1/2" = 1'-0"



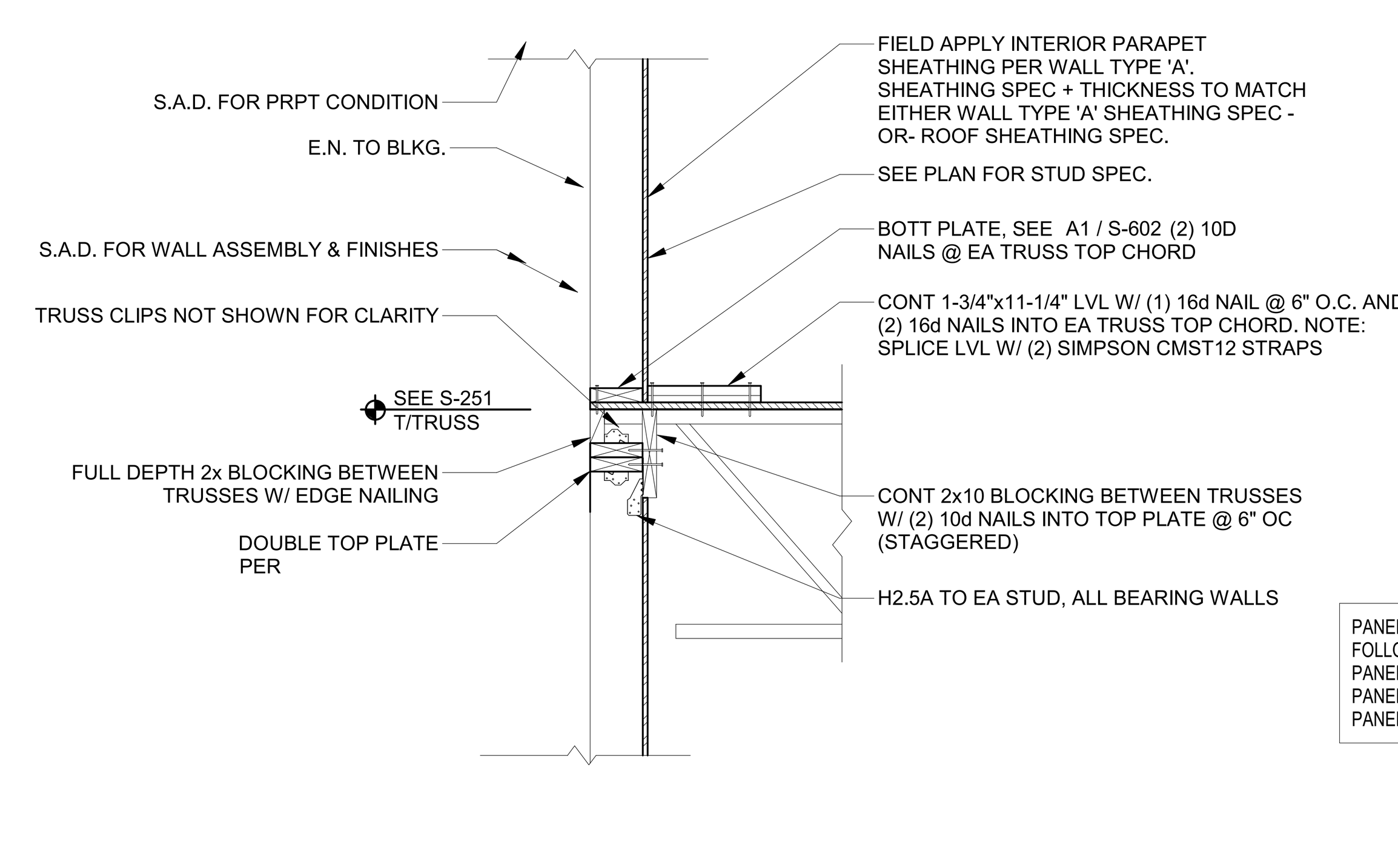
B1 TYP. NON-BRNG WALL SECTION AT WINDOW AND CANOPY
3/4" = 1'-0"



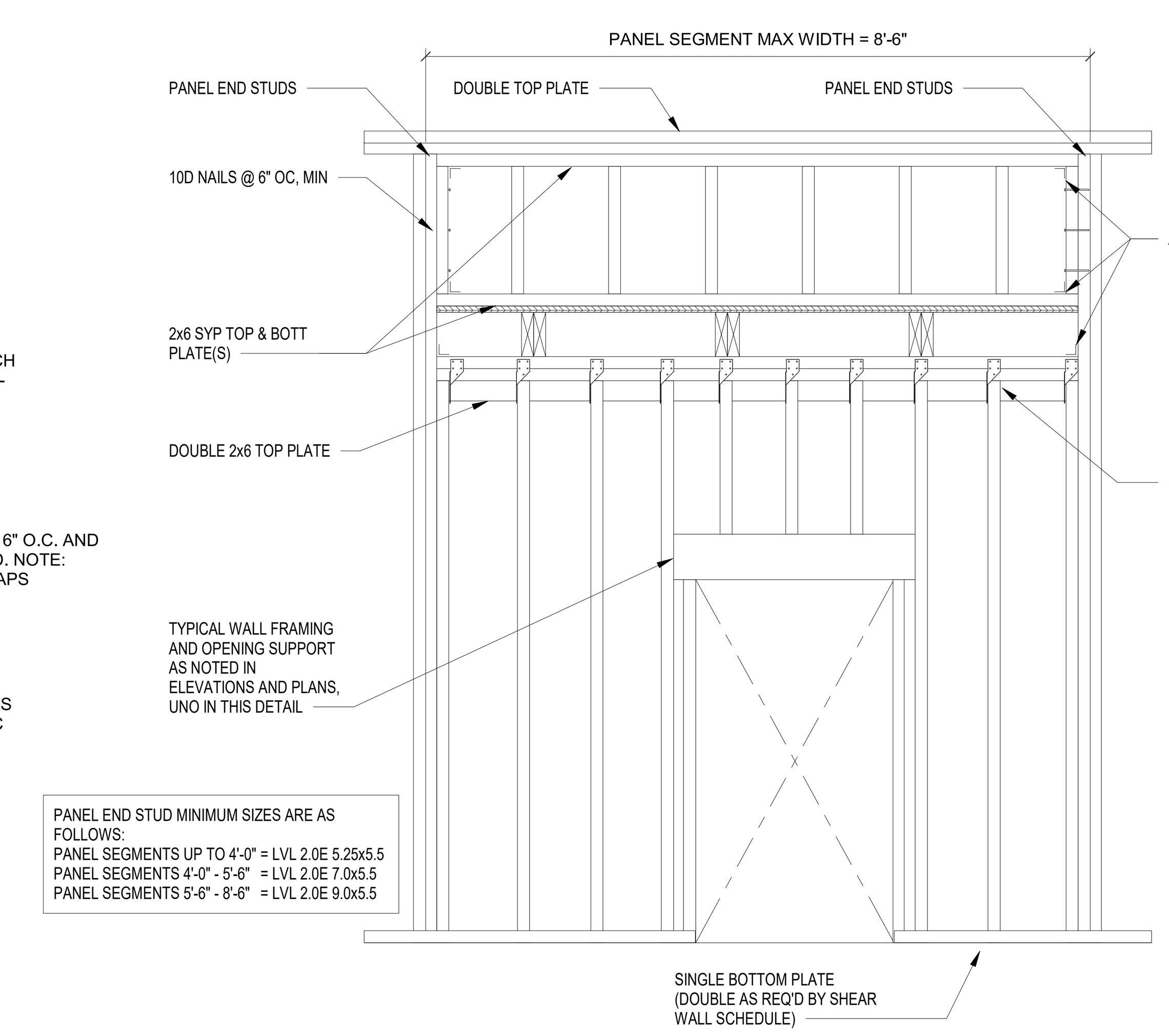
A4 TYP. BRNG WALL SECTION AT WINDOW OR DOOR
3/4" = 1'-0"



A3 TYP. NON-BRNG WALL SECTION
3/4" = 1'-0"



A2 TYP. TRUSS TO WOOD CONNECTION @ PLATFORM FRAMING_RB
3/4" = 1'-0"



A1 PLATFORM FRAMING @ LOAD BEARING WALLS_RB
3/4" = 1'-0"

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STATE OF MISSOURI — DAVID F. PAYSON — NUMBER PE-2021040... — PROFESSIONAL ENGINEER
11-18-2024

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SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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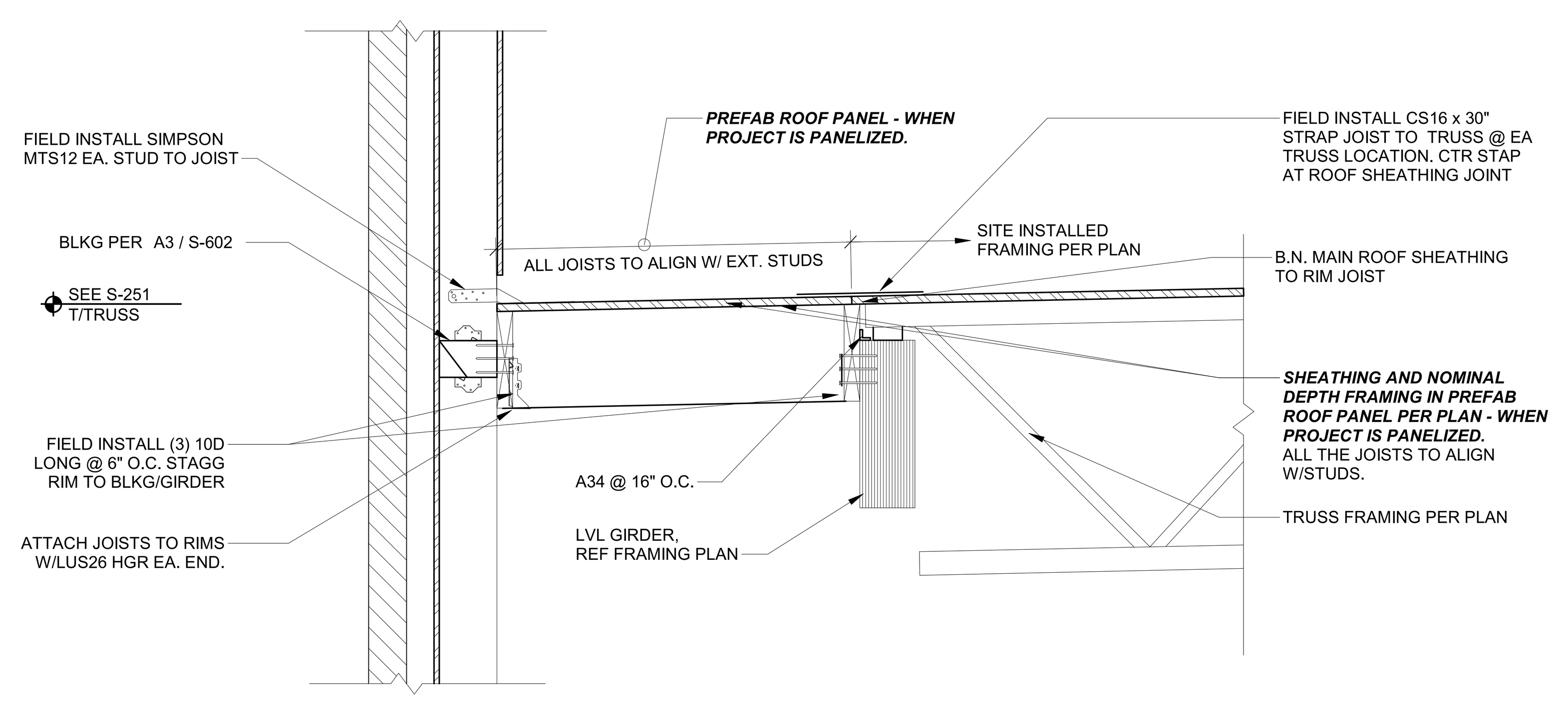
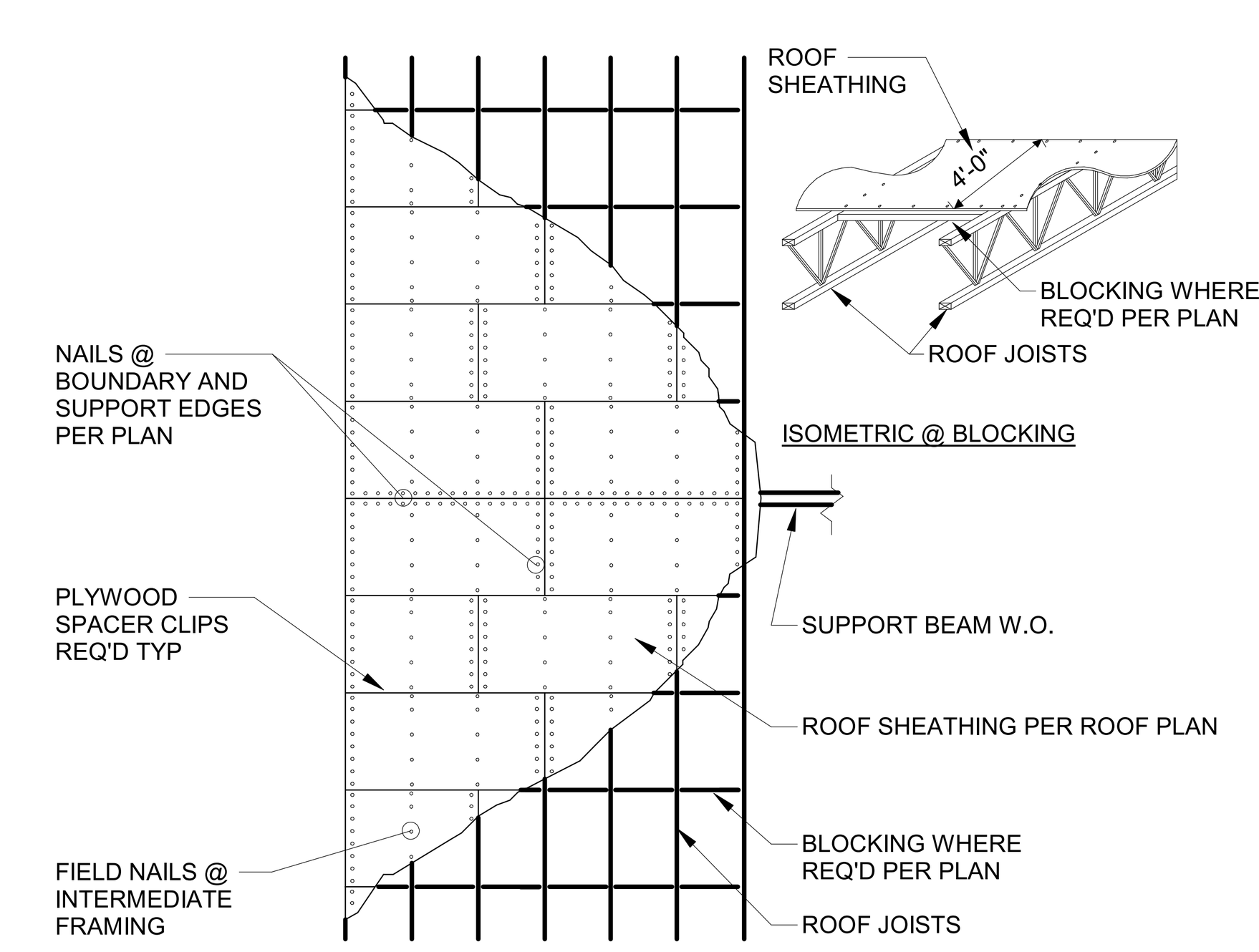
SHEET
WOOD FRAMING DETAILS

SHEET NUMBER
S-602

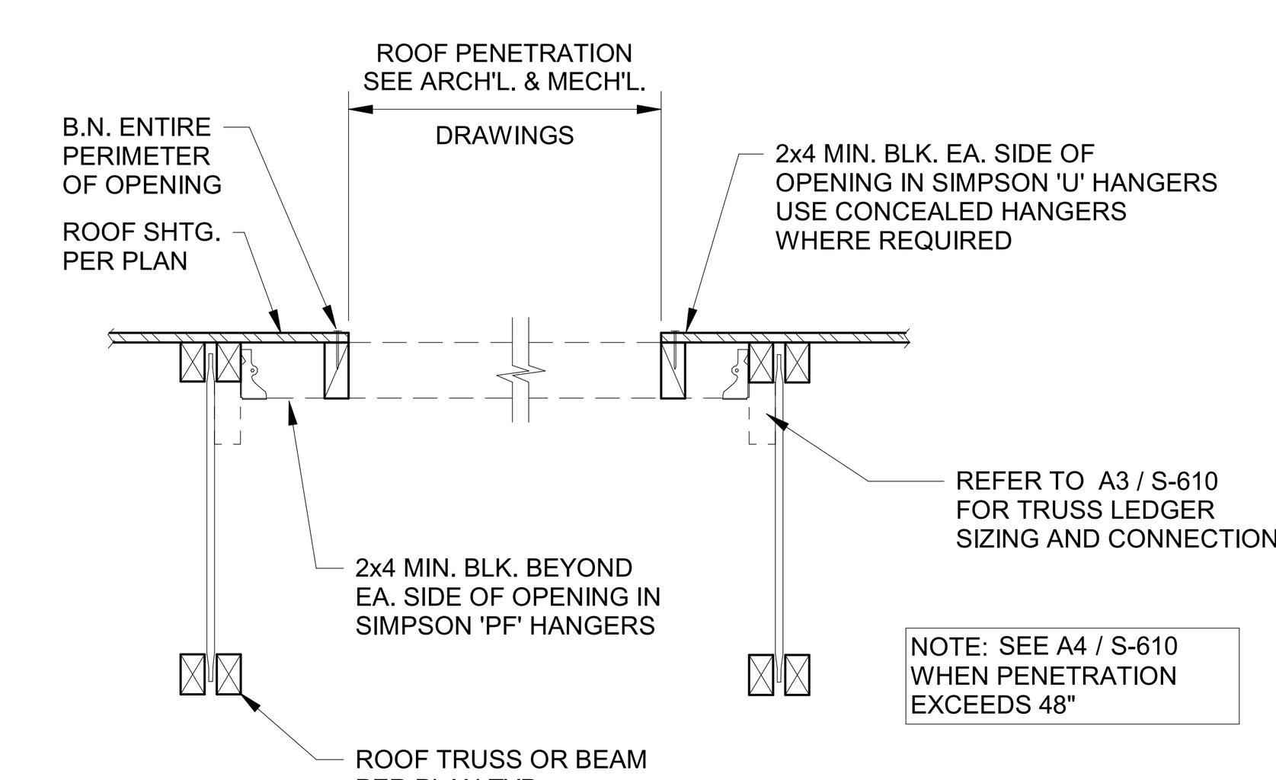
11/18/2024 10:26:28 PM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR05248_Hwy 50 & SR 291 (MO) FSU_STR.rvt
20-LSR-05248-S-602-WOOD FRAMING DETAILS



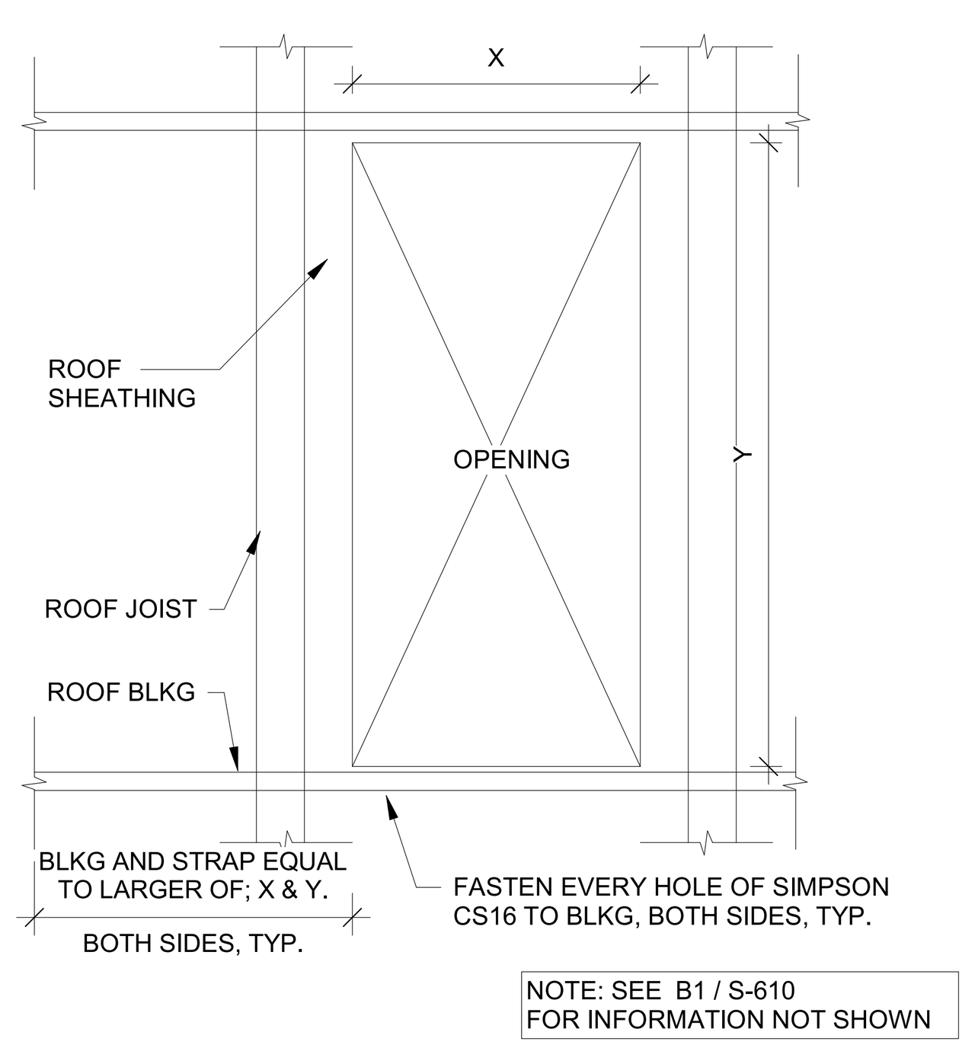
B4 DRIVE THRU ROOF AND TRUSS CONNECTION
1" = 1'-0"



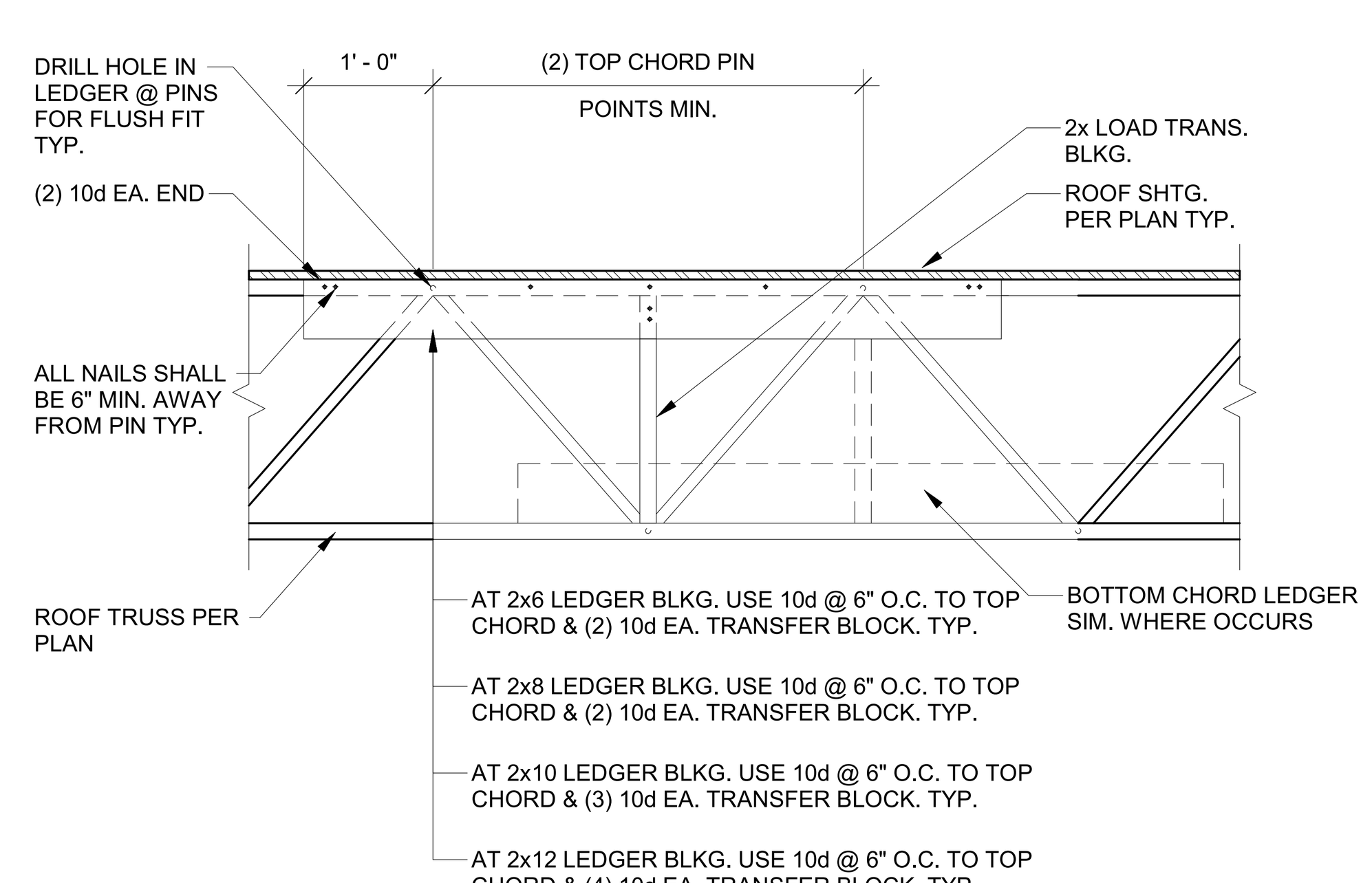
B2 TYP. ROOF DIAPHRAGM NAILING
3/4" = 1'-0"



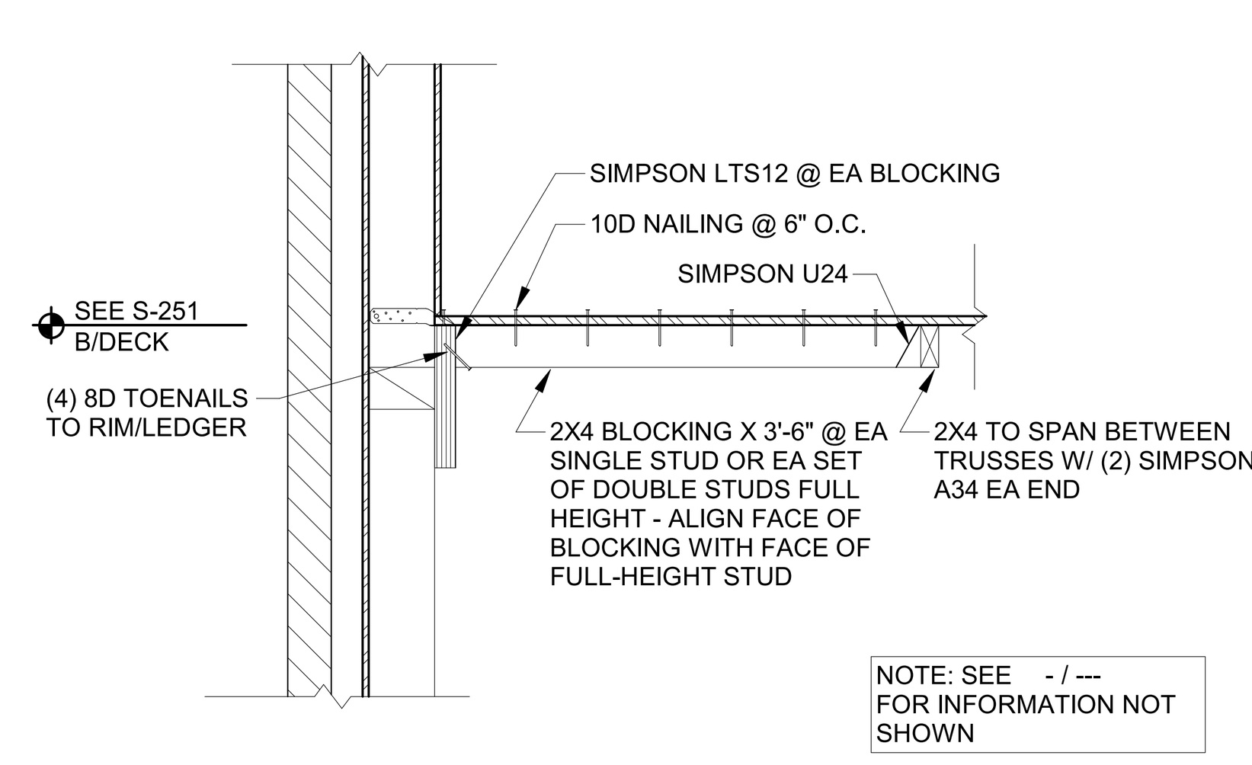
B1 TYP. ROOF PENETRATION DETAIL
1" = 1'-0"



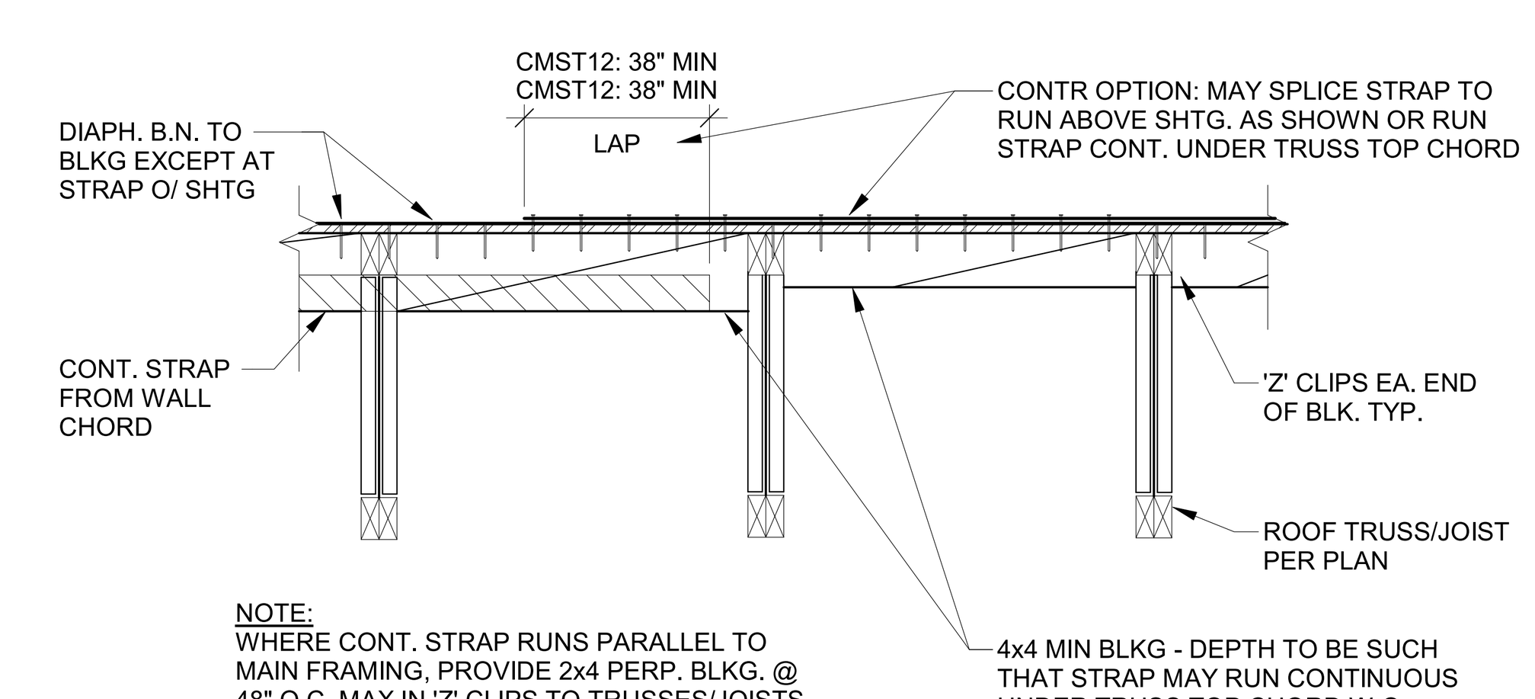
A4 LARGE ROOF PENETRATION DETAIL
3/4" = 1'-0"



A3 TYP. TRUSS LEDGER BLOCK
3/4" = 1'-0"



A2 LATERAL BLOCKING DETAIL
3/4" = 1'-0"



A1 TYP. STRAPPING DETAIL
3/4" = 1'-0"

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BUILDING TYPE / SIZE: P14 LSR ALL
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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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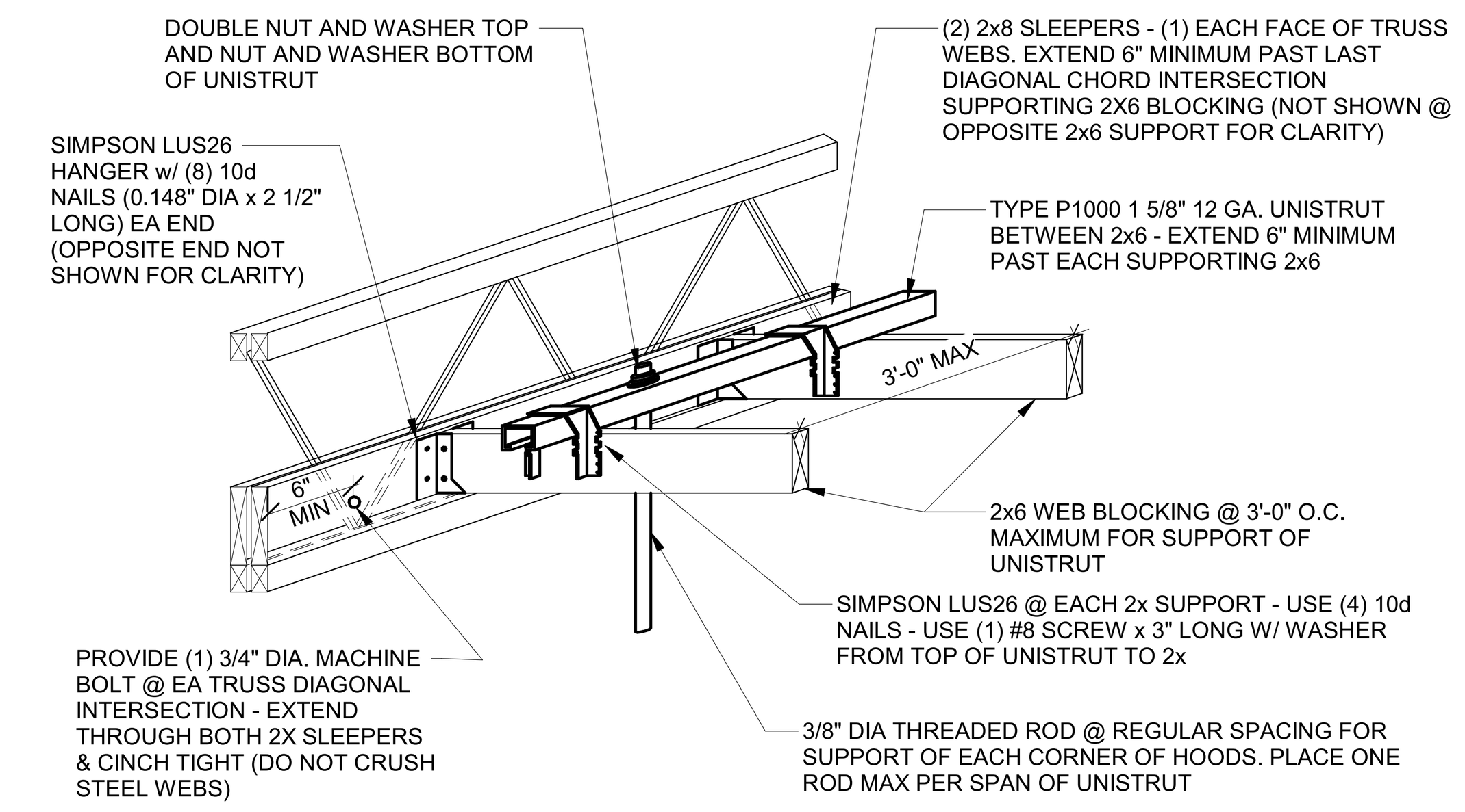
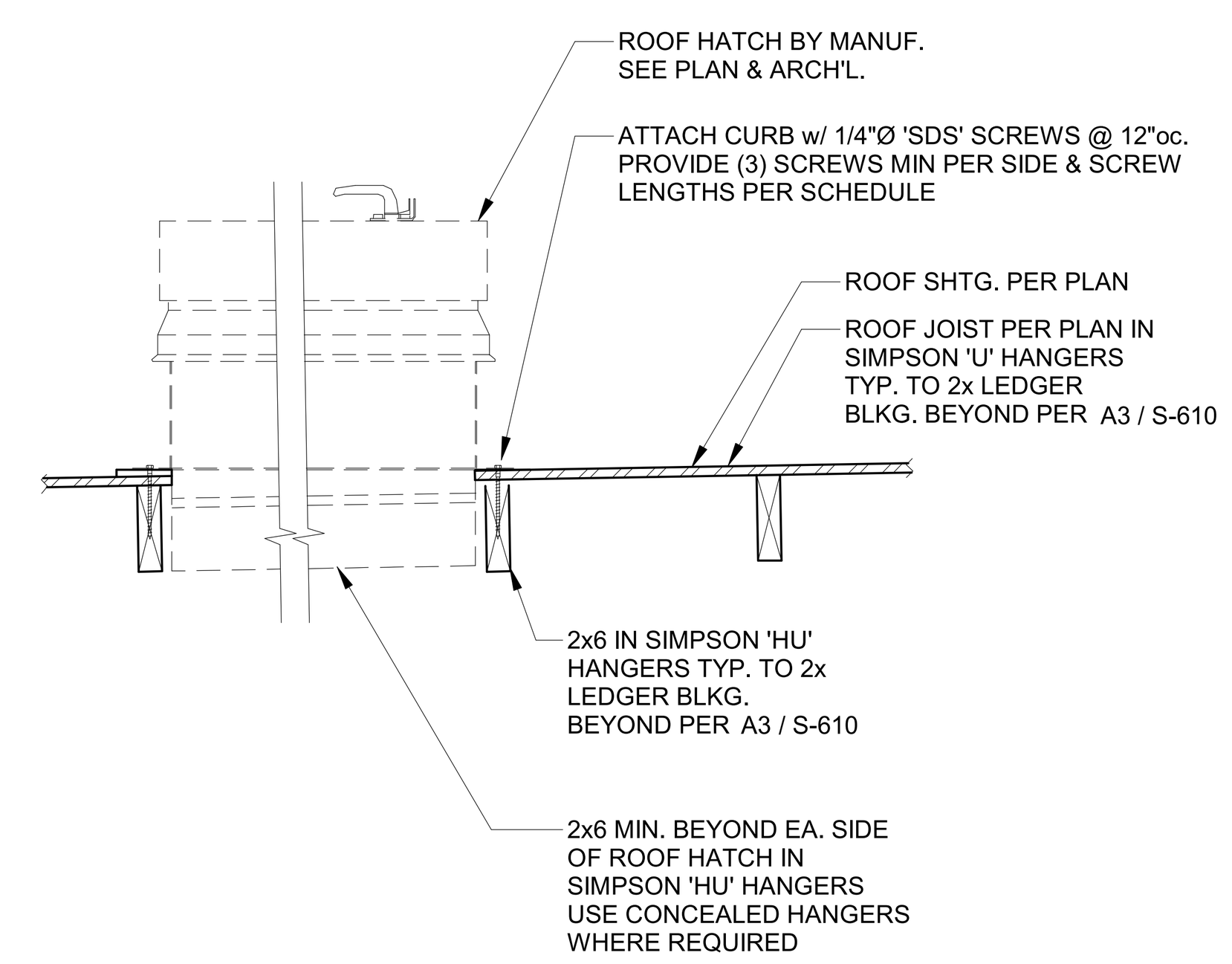
SHEET
ROOF FRAMING DETAILS

SHEET NUMBER
S-610

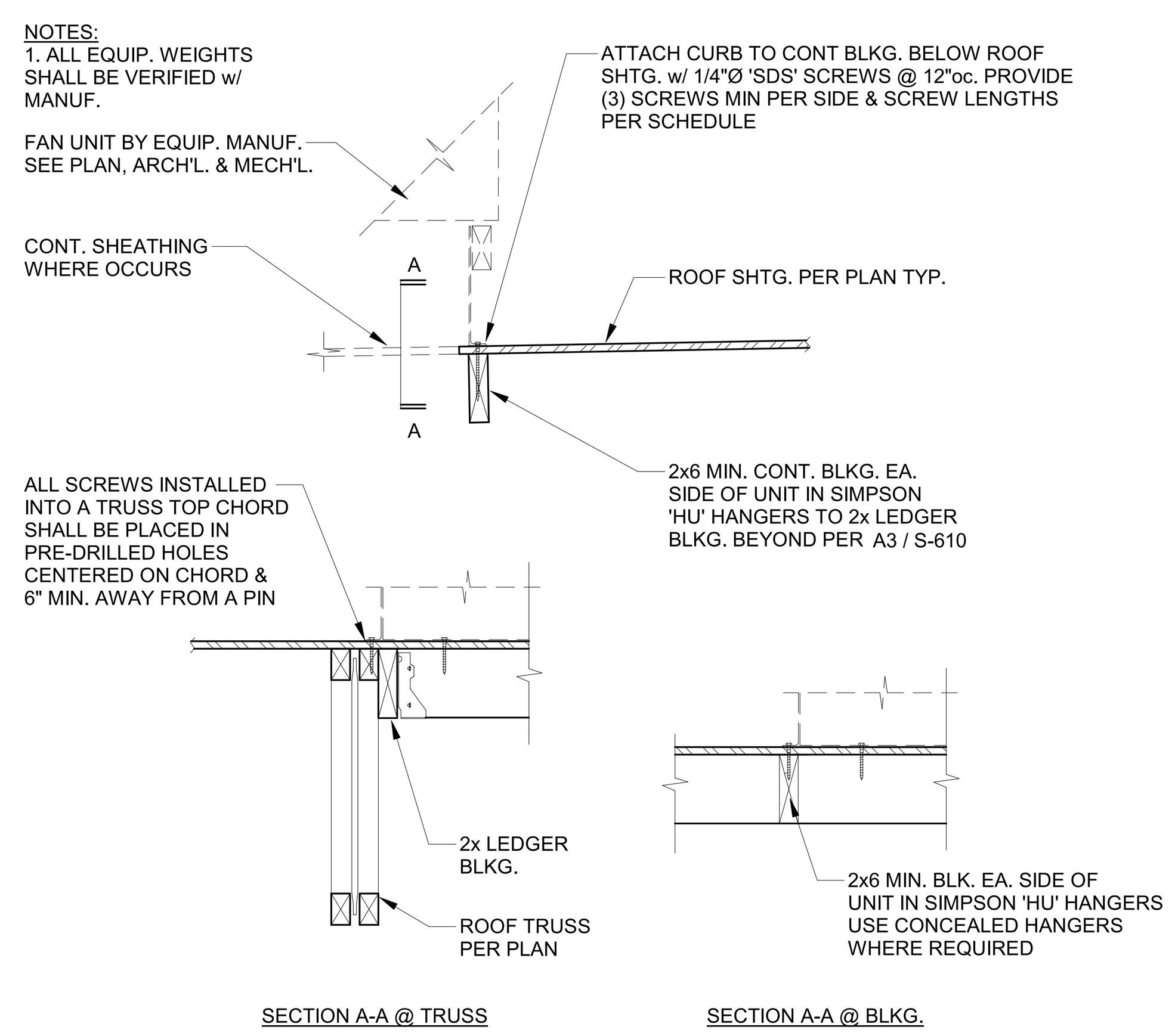


NOTES:
1. GENERAL CONTRACTOR WILL PROVIDE AND INSTALL ALL WEB AND WOOD BLOCKING (INCLUDING HANGERS) AND UNISTRUT.
2. SUBCONTRACTOR/EQUIPMENT INSTALLER WILL PROVIDE AND INSTALL ALL THREADED RODS WITH NUTS AND WASHERS.
3. SEE REDBUILT STANDARD INSTALLATION FOR FURTHER CLARIFICATIONS.
4. DO NOT EXCEED CAPACITY OF HANGER (500# EACH).
5. LOCATE BLOCKING AND UNISTRUT BETWEEN ALL TRUSSES ABOVE AND 12" AROUND OUTSIDE OF SUSPENDED SHELVING.

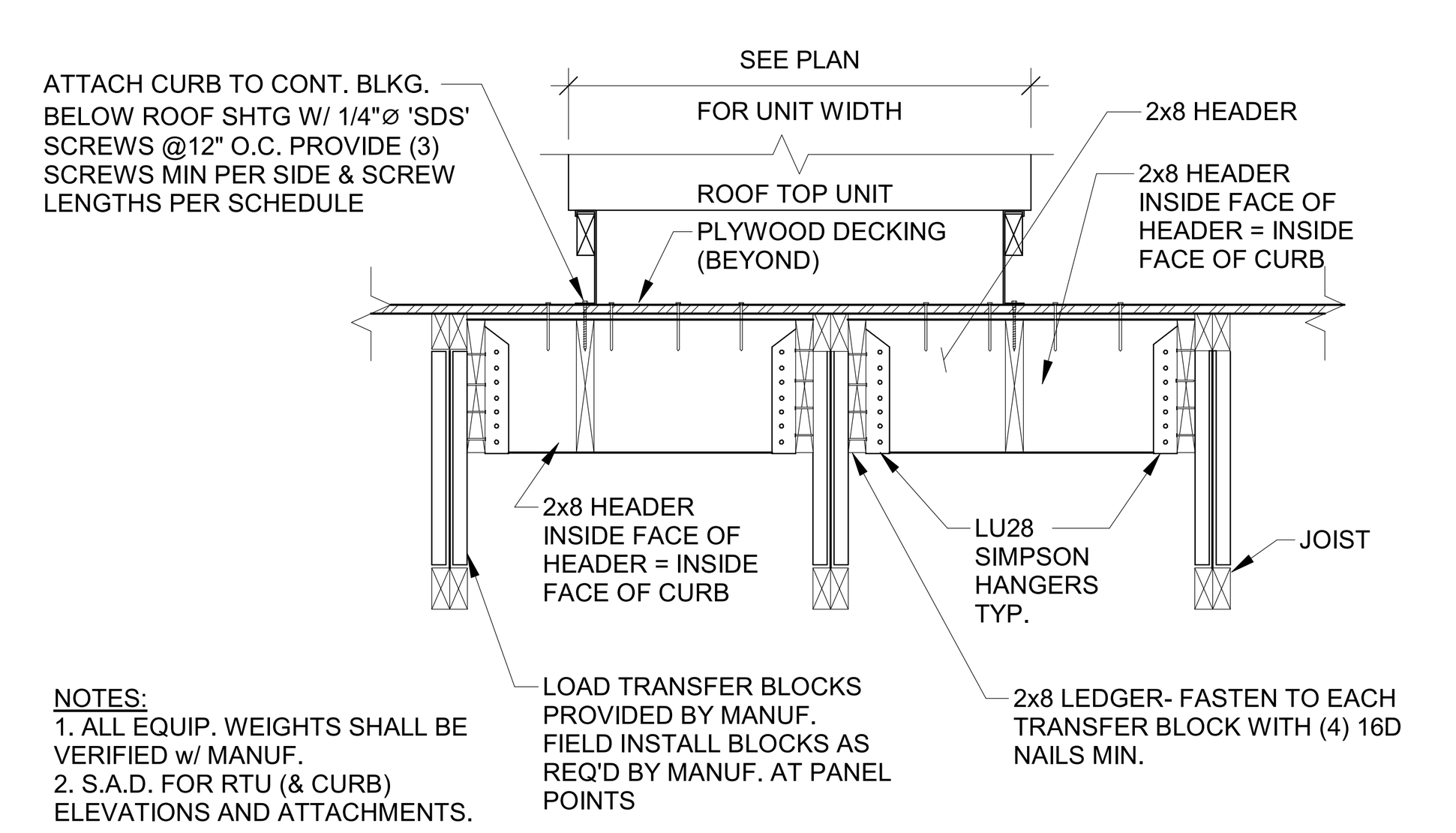
C1 TYP. HANGER DETAIL
N.T.S.



C2 ROOF HATCH ANCHORAGE
1" = 1'-0"

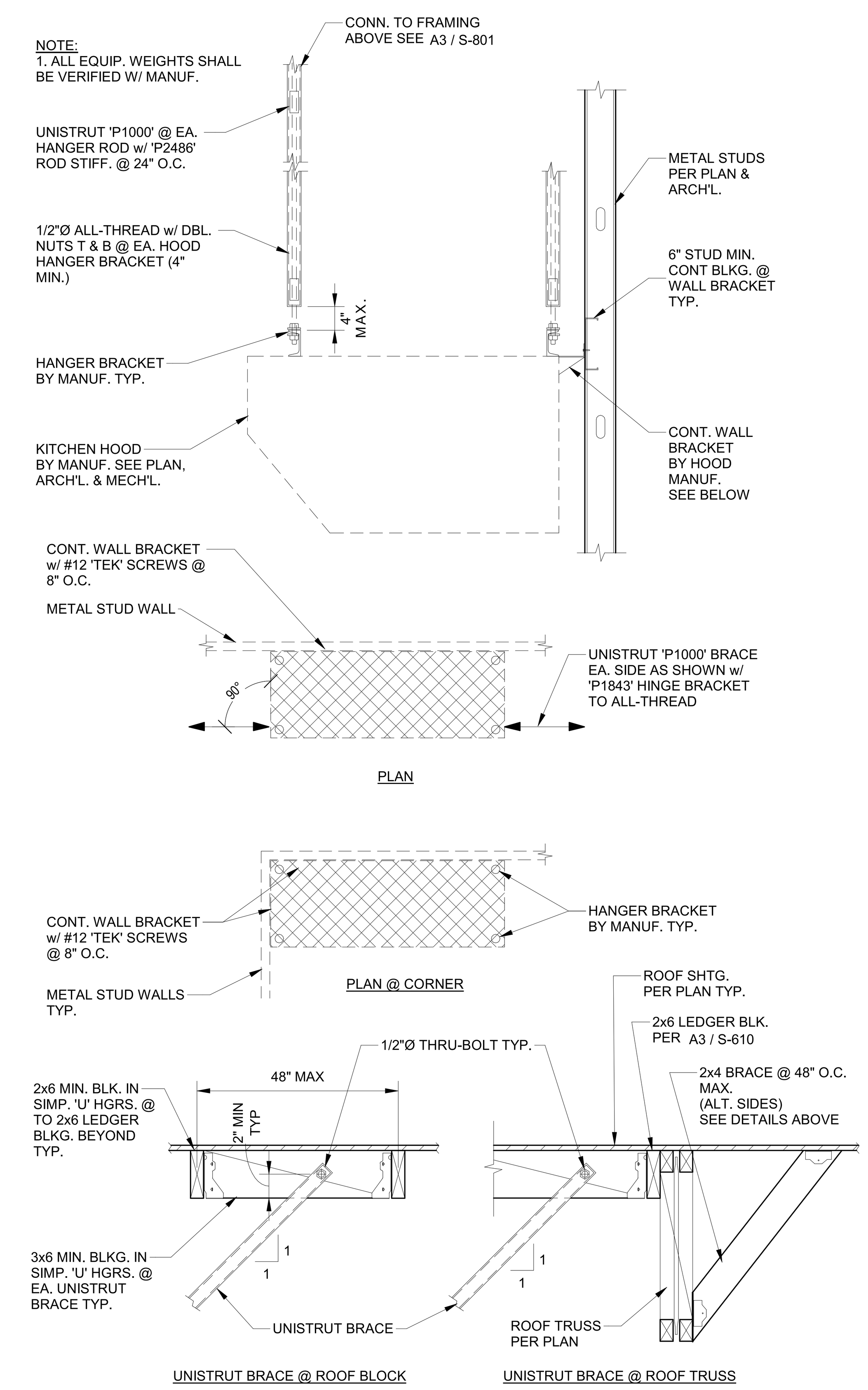


B3 TYP. MECH'L. FAN UNIT ANCHORAGE
1" = 1'-0"

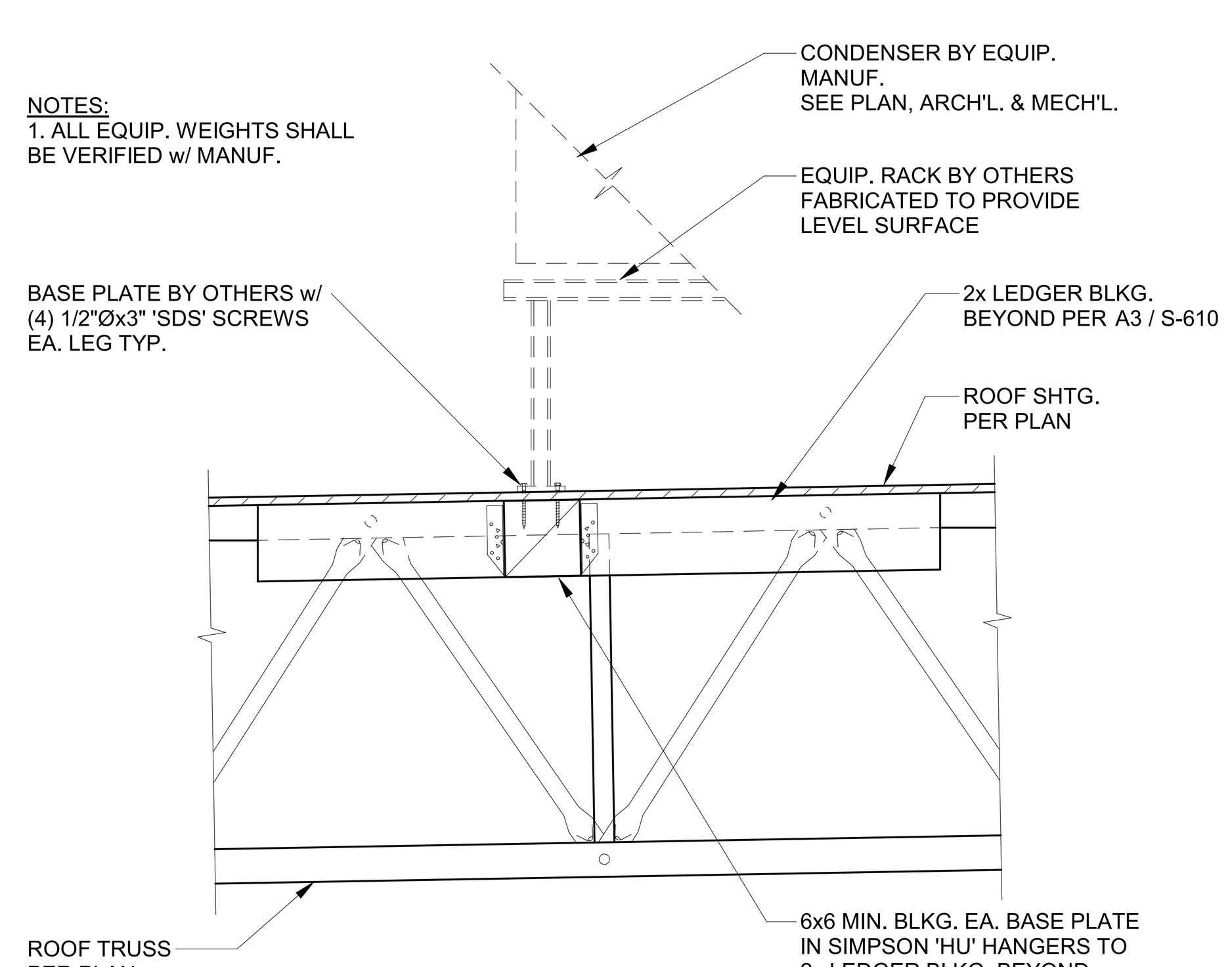


NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.
2. S.A.D. FOR RTU (& CURB) ELEVATIONS AND ATTACHMENTS.

B2 TYP. RTU FRAMING SECTION
3/4" = 1'-0"

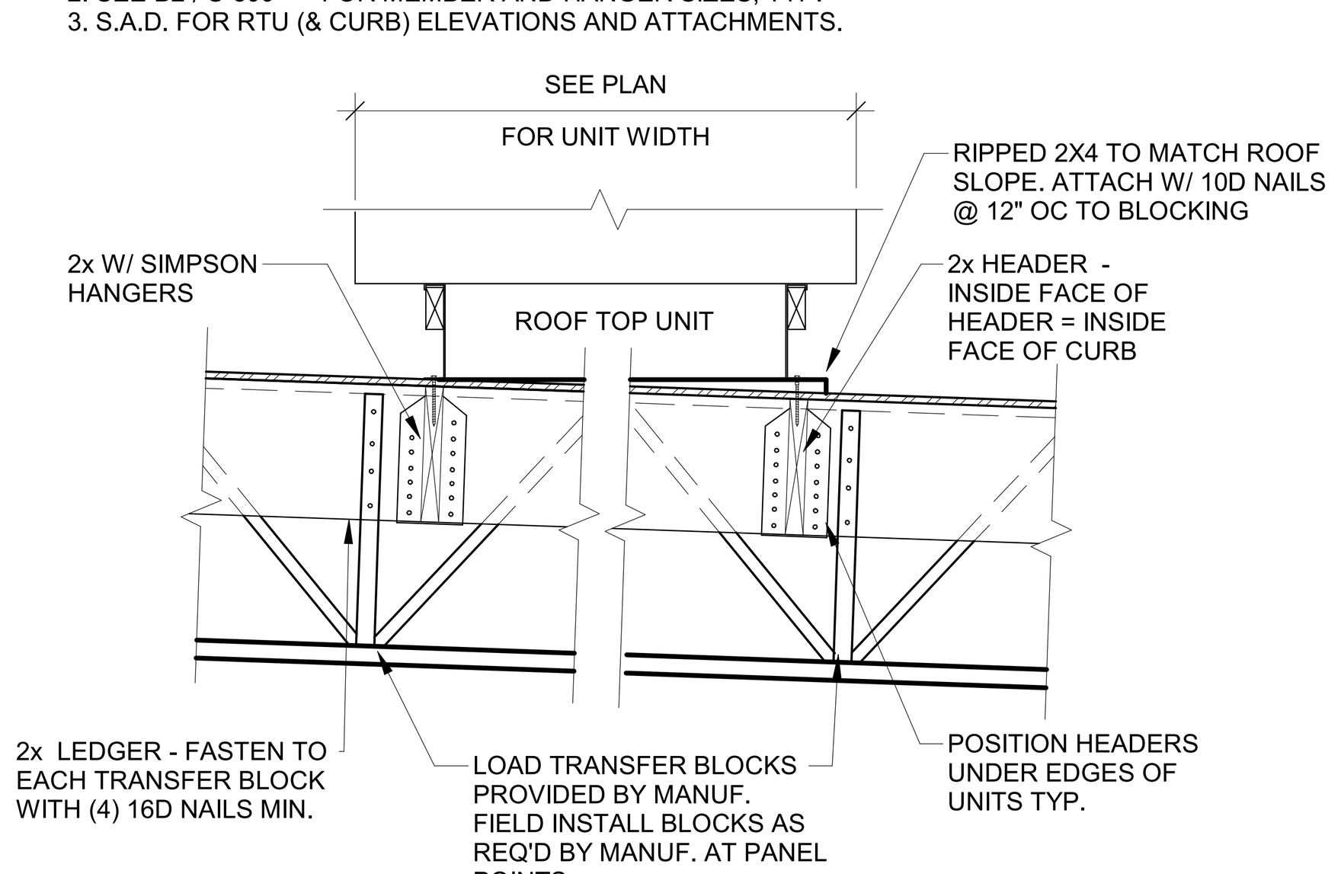


A1 TYP. MECH'L. HOOD SUPPORT
1" = 1'-0"



A3 MECH'L. CONDENSING UNIT ANCHORAGE
1" = 1'-0"

NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.
2. SEE B2 / S-800 FOR MEMBER AND HANGER SIZES, TYP.
3. S.A.D. FOR RTU (& CURB) ELEVATIONS AND ATTACHMENTS.



A2 SECTION @ RTU FRAMING
3/4" = 1'-0"

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STATE OF MISSOURI — DAVID F. BOPSON — NUMBER PE-2021046163 — PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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SHEET
TYPICAL NONSTRUCTURAL DETAILS
SHEET NUMBER
S-800

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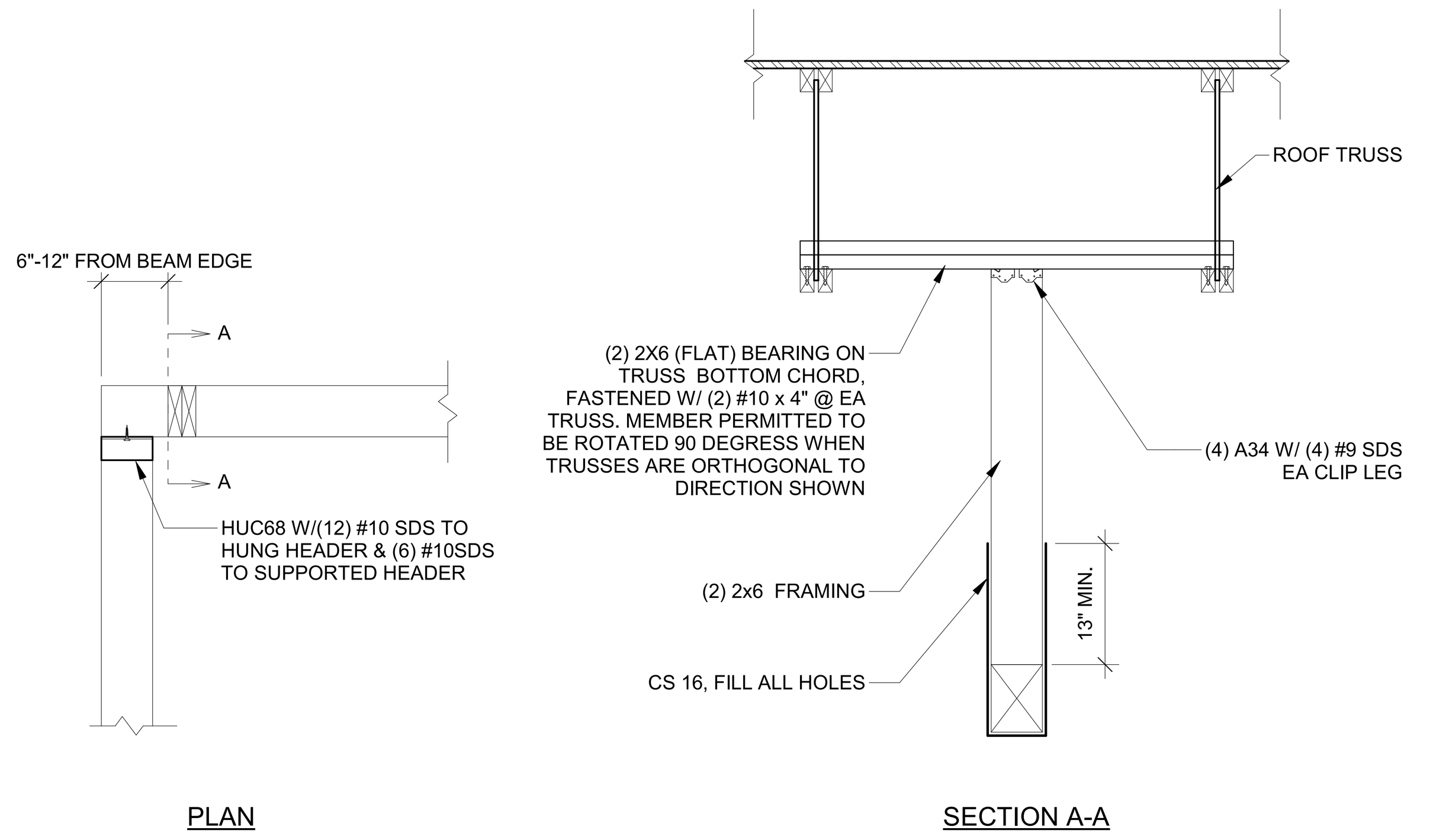
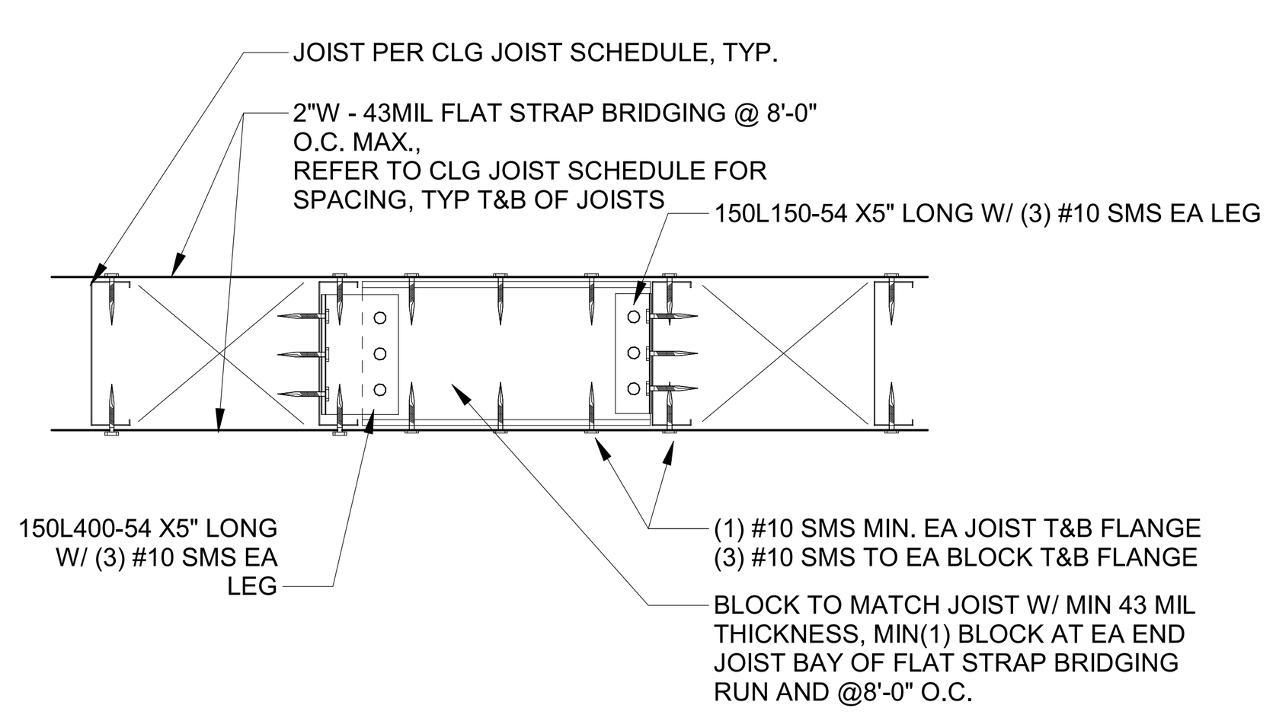
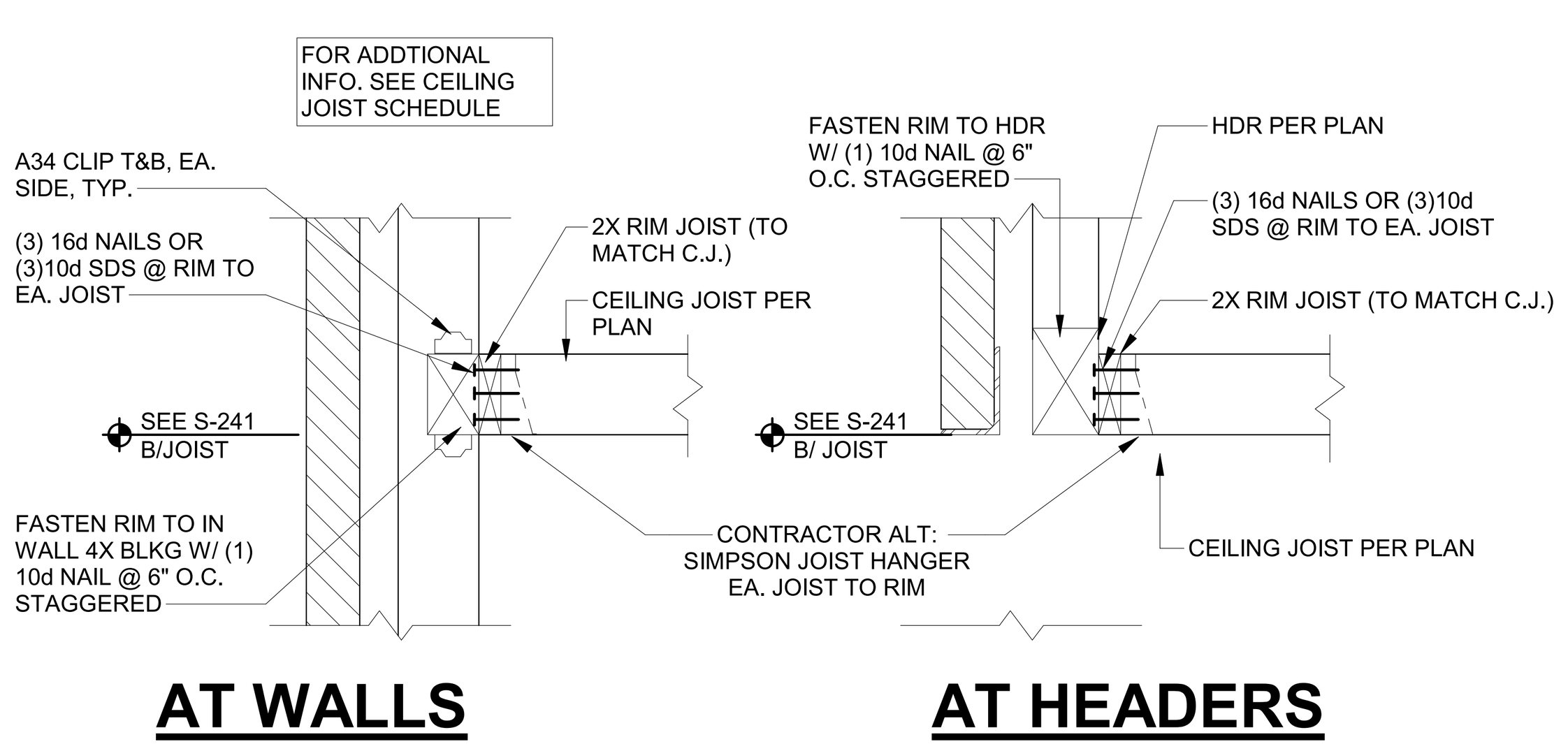
20-LSR-05248-S-800-TYPICAL NONSTRUCTURAL DETAILS



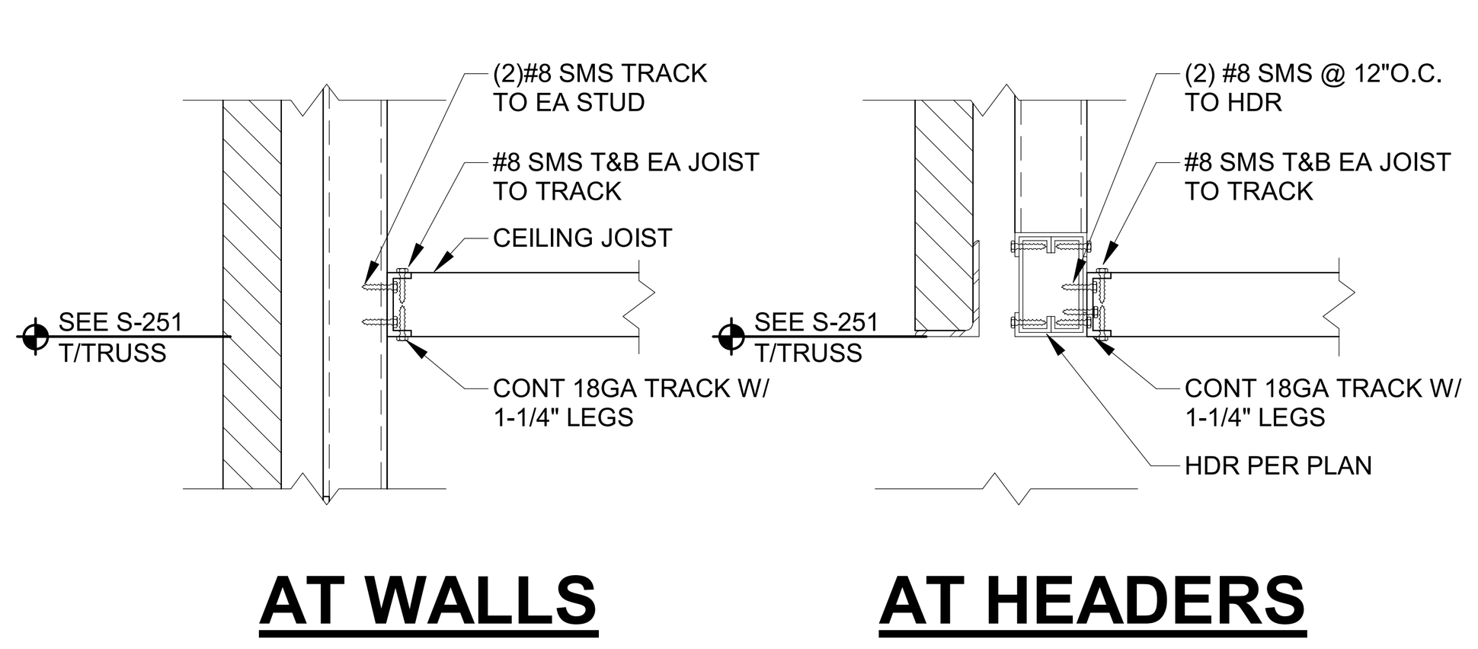
D4 ENTRY VESTIBULE HUNG CORNER CONDITION
3/4" = 1'-0"



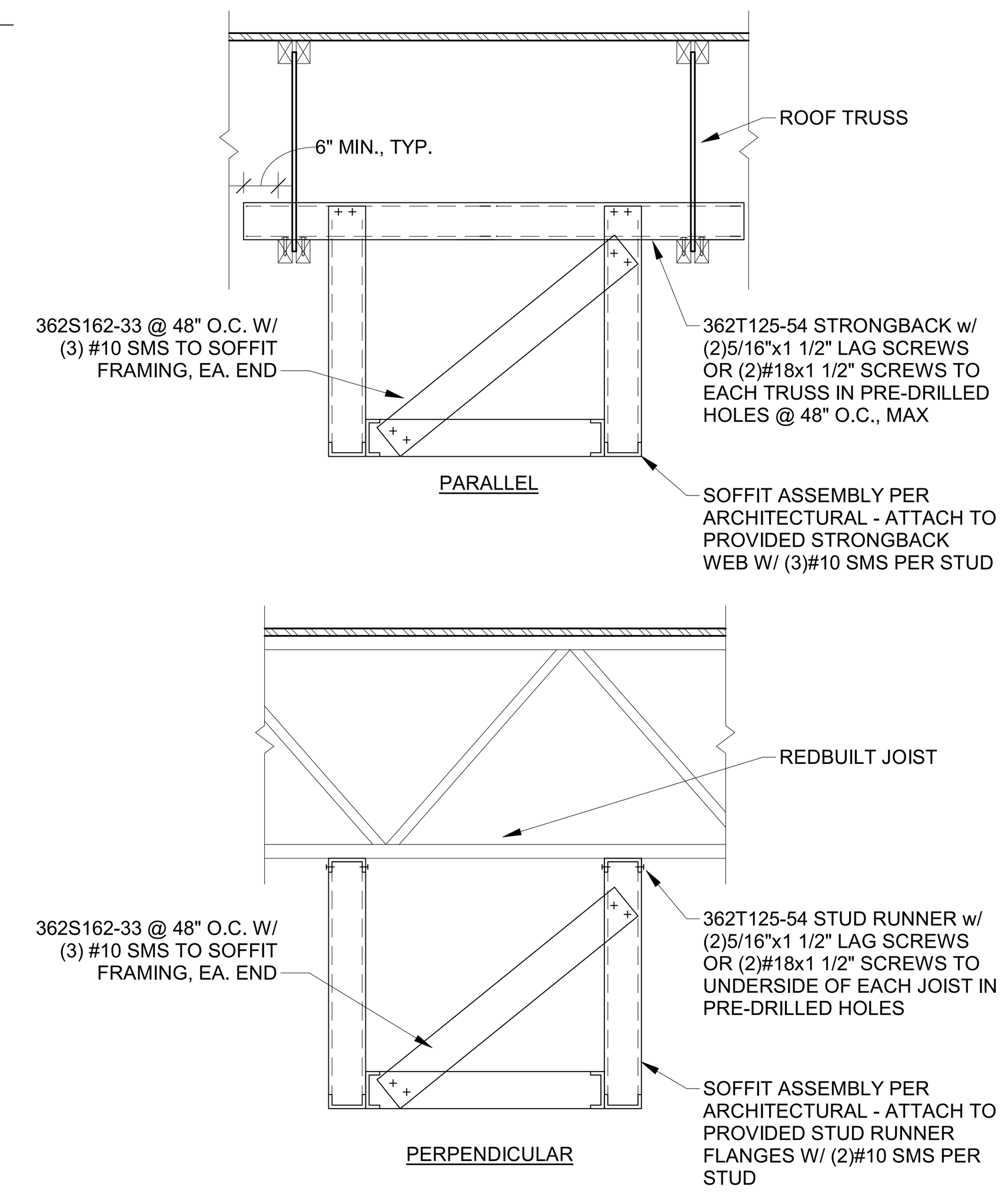
C4 TYP. STEEL JOIST BRIDGING
1 1/2" = 1'-0"



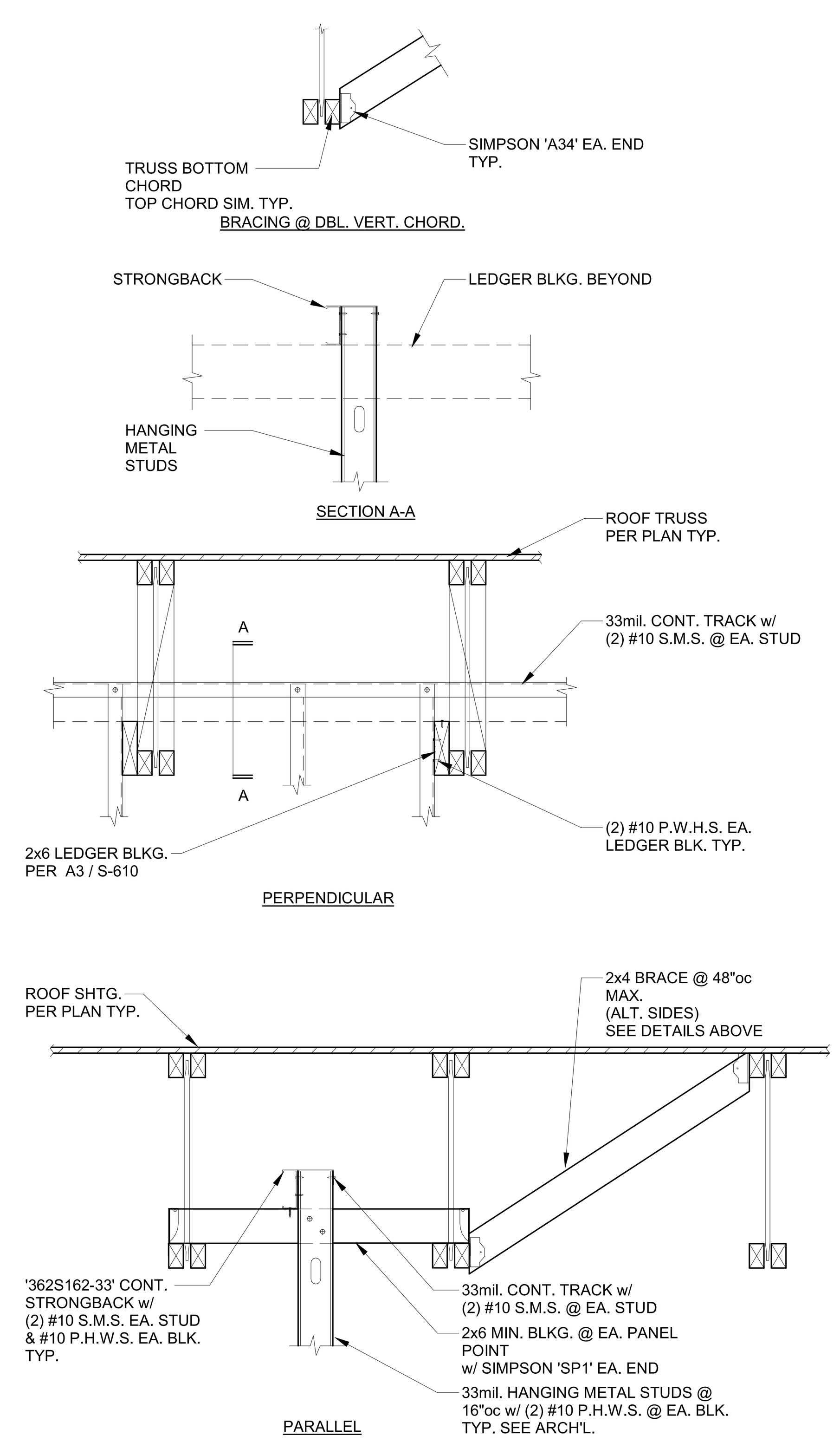
B4 TYP. CEILING ATTACHMENT (WOOD)
N.T.S.



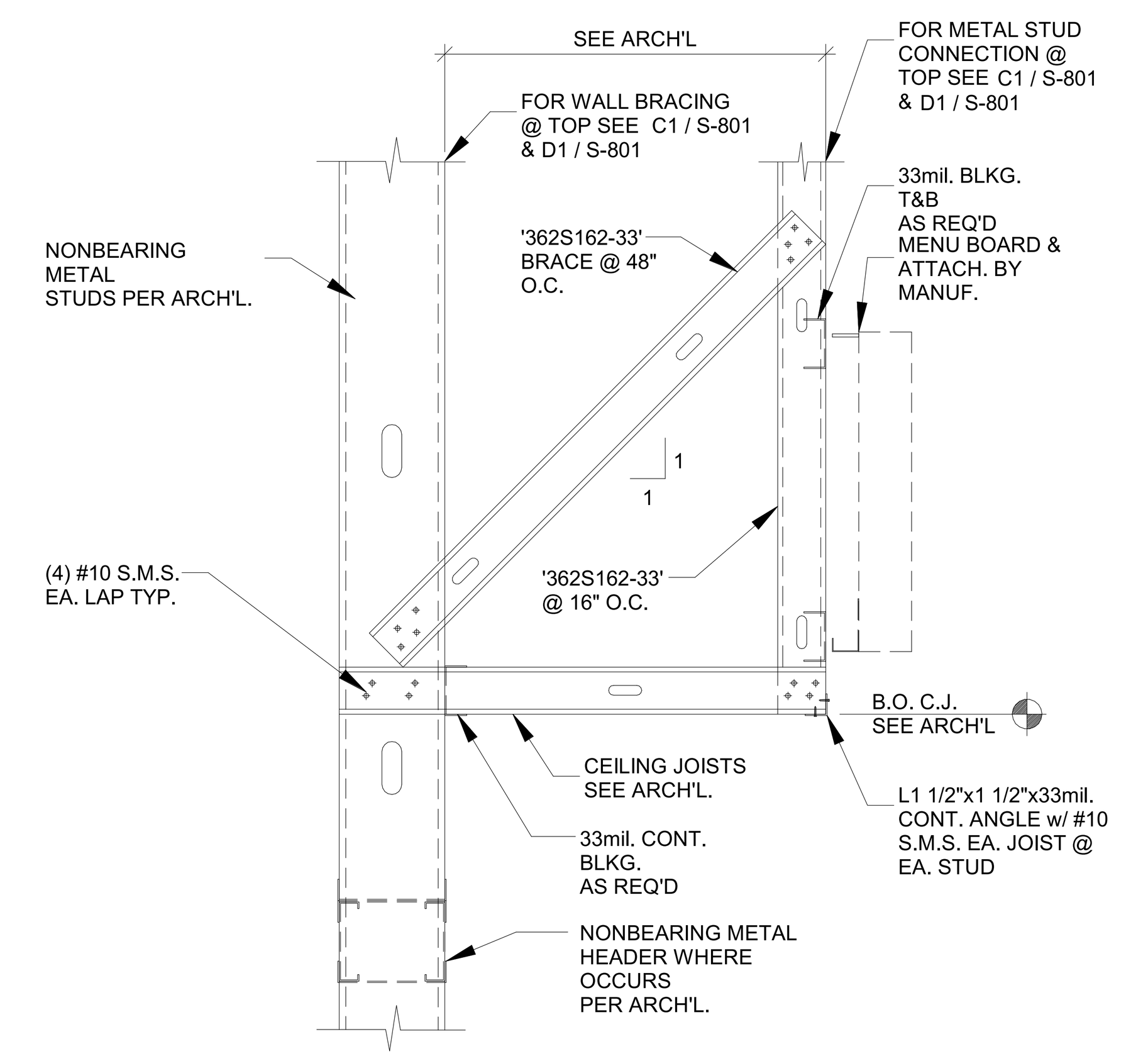
A4 TYP. CEILING ATTACHMENT (CFS)
N.T.S.

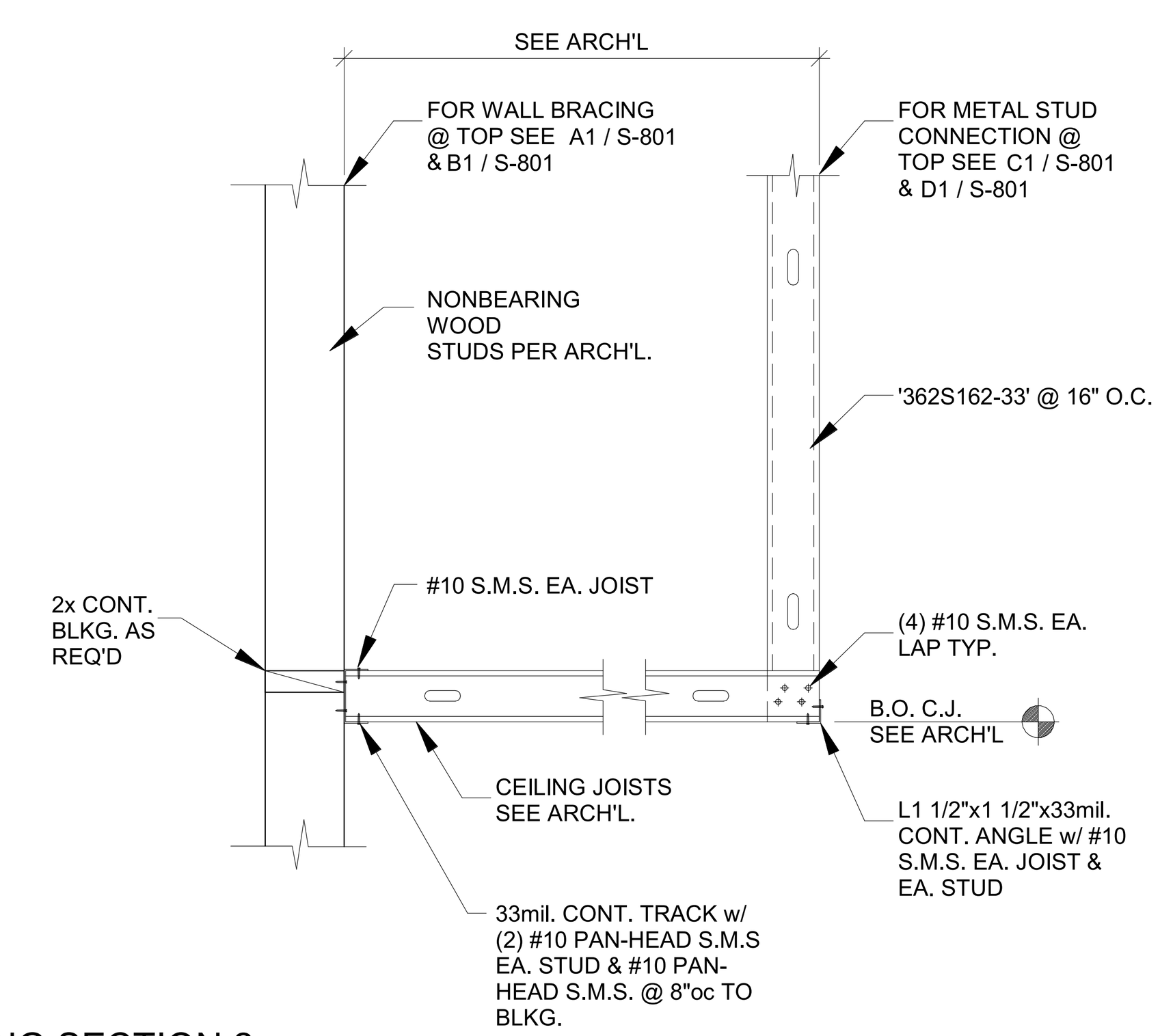


C3 TYP. INTERIOR SOFFIT
N.T.S.

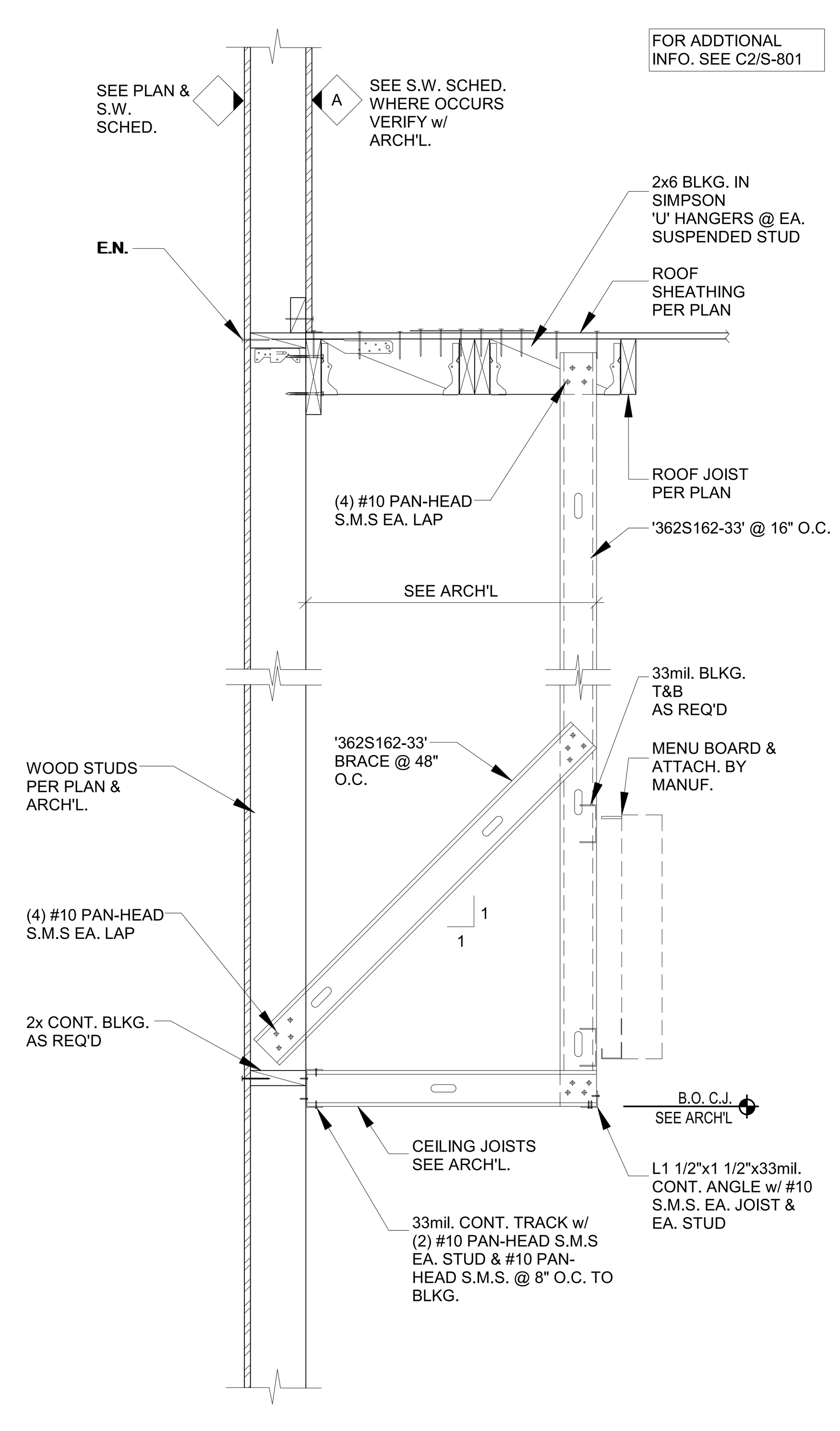


A3 TYP. HANGING METAL STUD DETAIL
N.T.S.

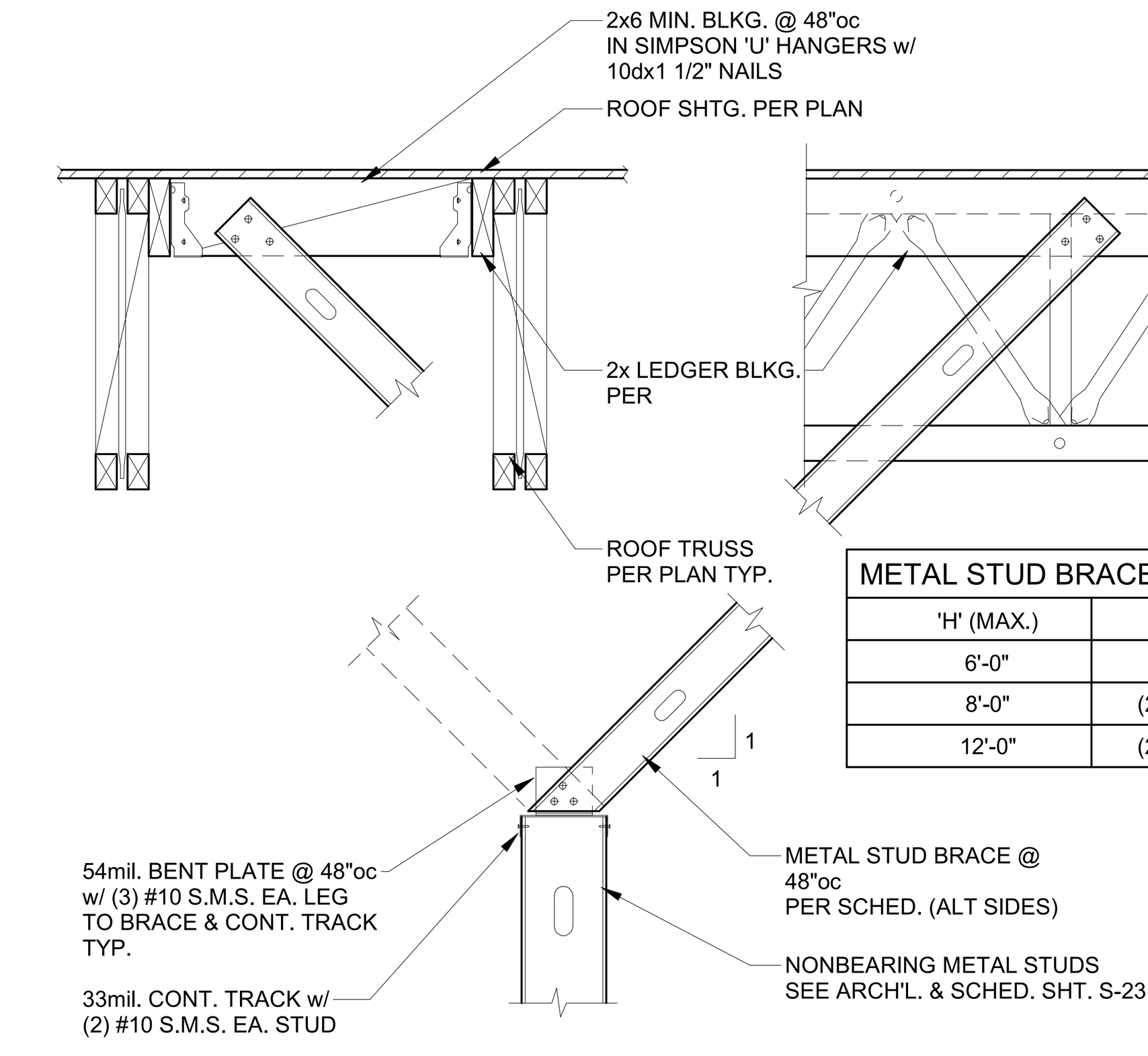




C2 CEILING SECTION 2
N.T.S.



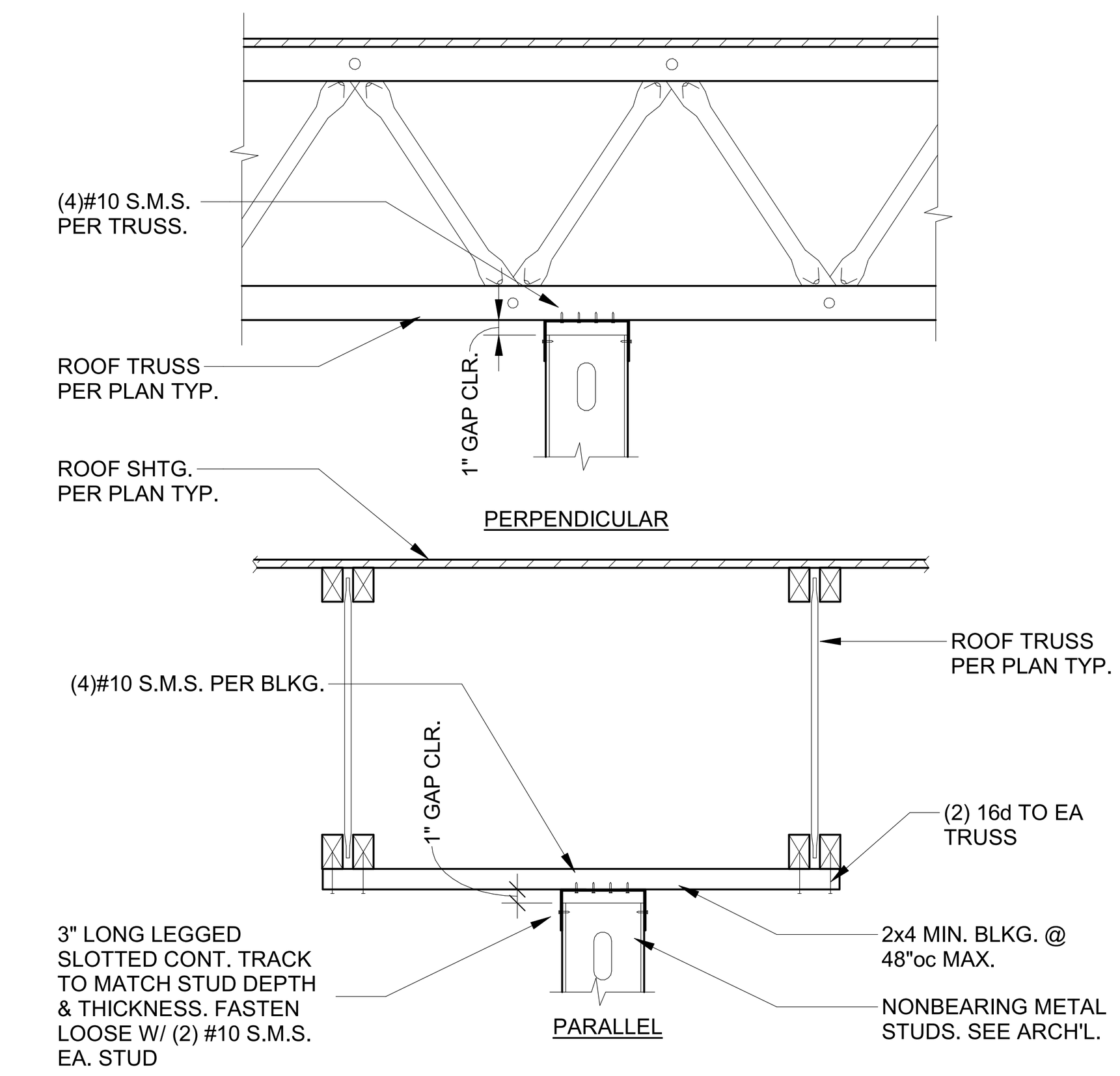
A2 CEILING SECTION
N.T.S.



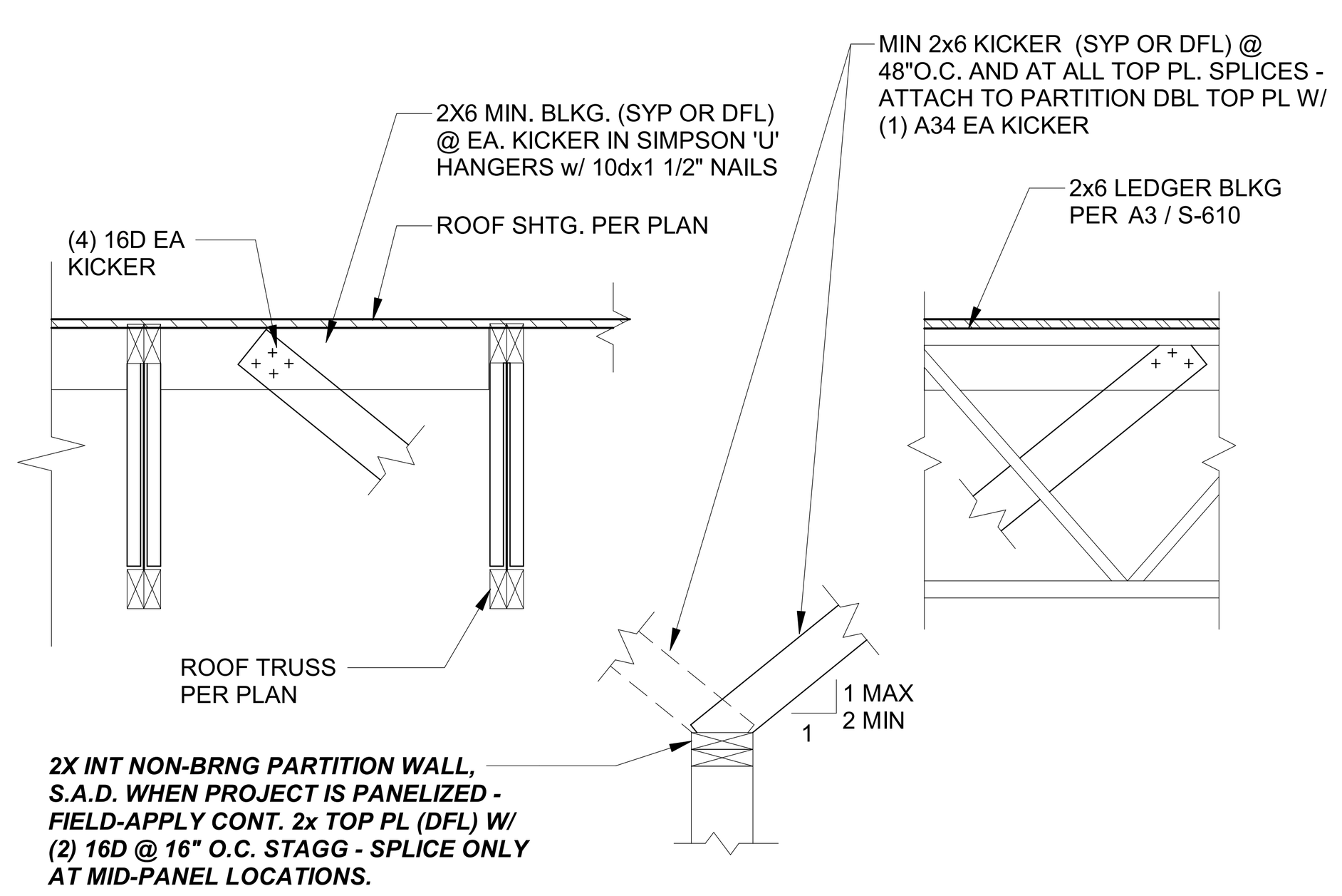
METAL STUD BRACE SCHEDULE

'H' (MAX.)	BRACE SIZE
6'-0"	'362S162-33'
8'-0"	(2) '362S162-33'
12'-0"	(2) '362S162-33'

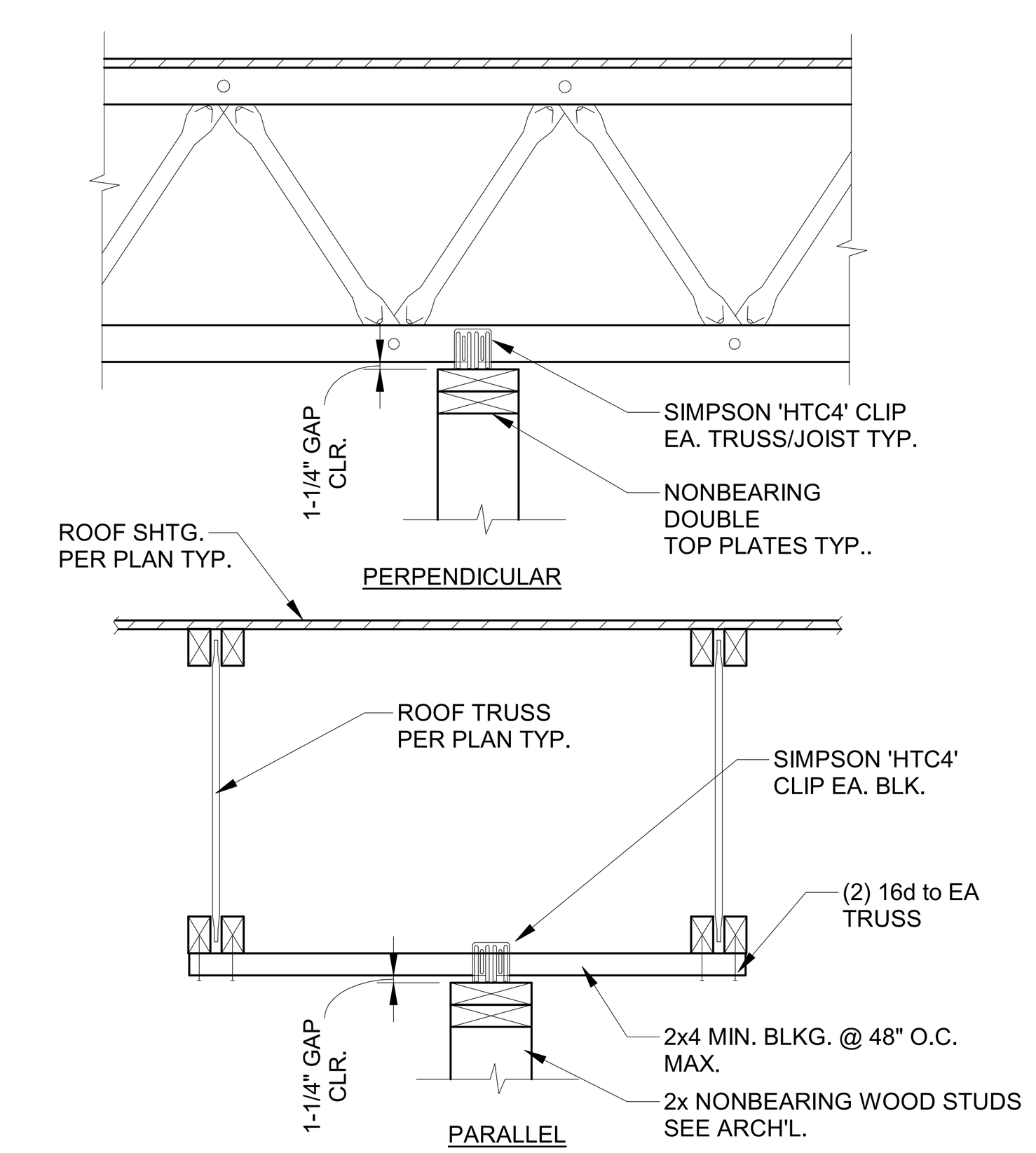
D1 TYP. MTL PARTITION WALL BRACING BELOW TRUSS
N.T.S.



C1 TYP. MTL PARTITION WALL BRACING AT TRUSS
N.T.S.



B1 TYP. WOOD PARTITION WALL BRACING BELOW TRUSS
N.T.S.



A1 TYP. WOOD PARTITION WALL BRACING AT TRUSS
N.T.S.

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STATE OF MISSOURI — DAVID F. [illegible] — NUMBER PE-2021000[illegible] — PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
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SHEET
TYPICAL NONSTRUCTURAL DETAILS
SHEET NUMBER
S-801

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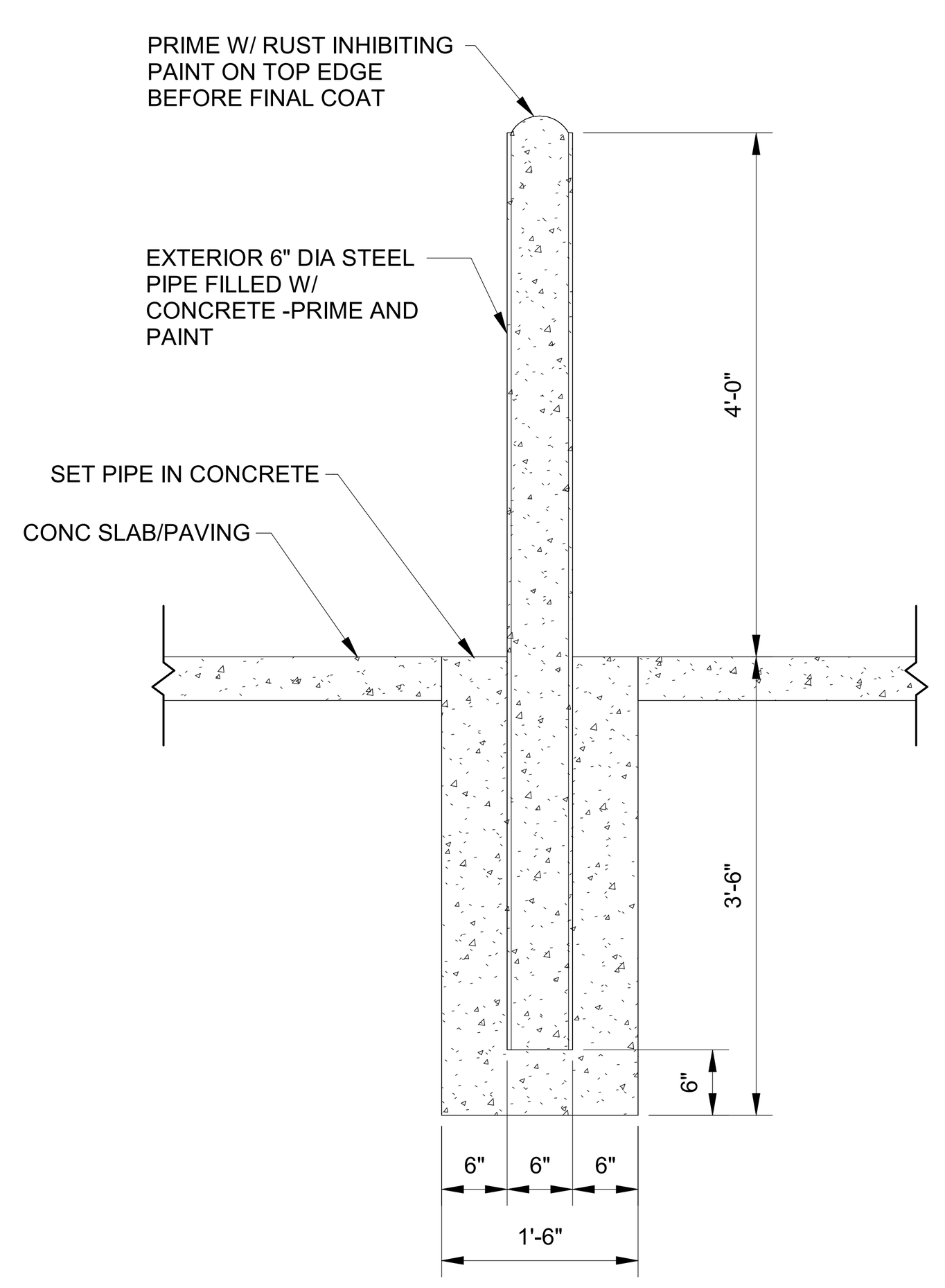
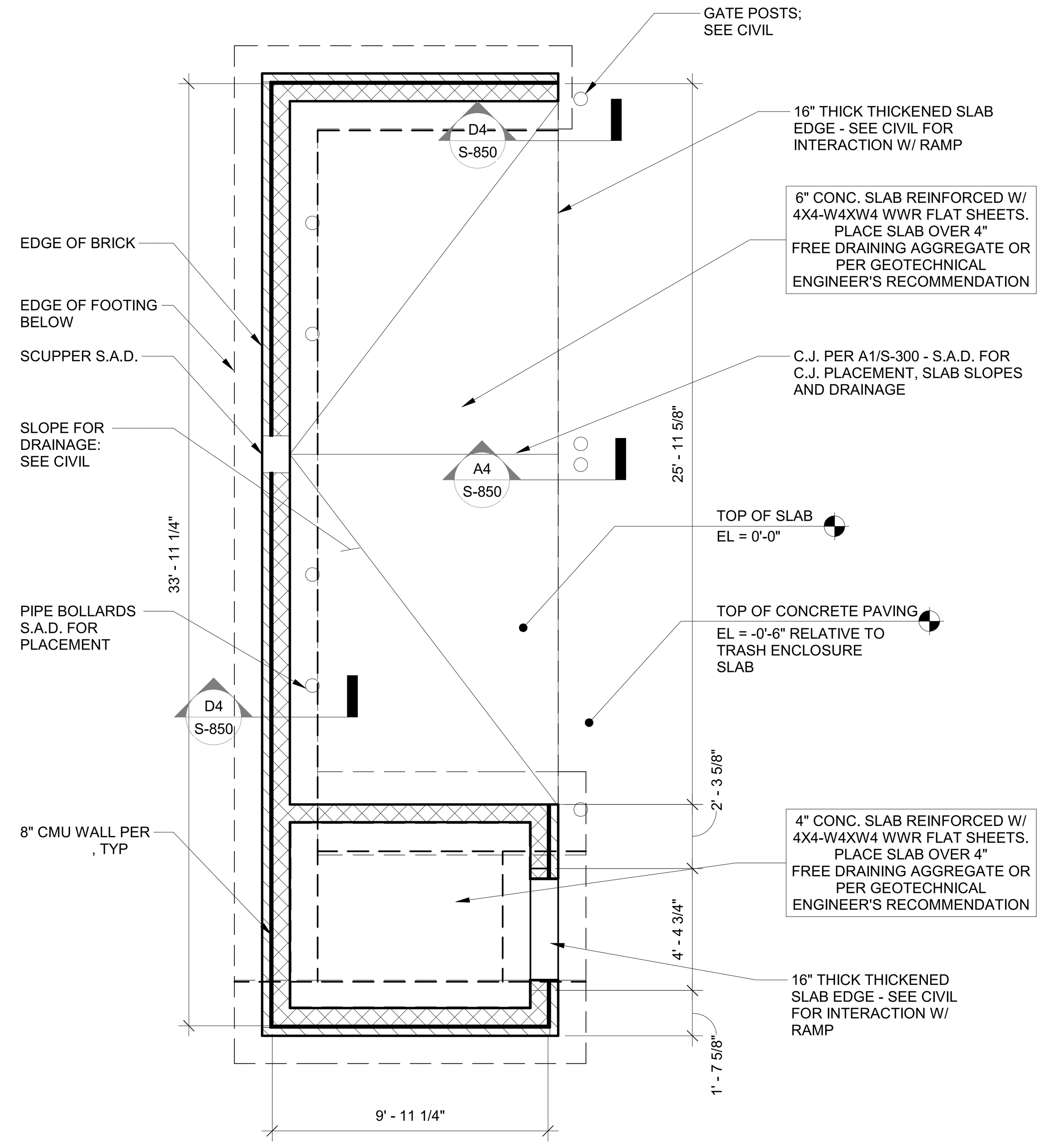
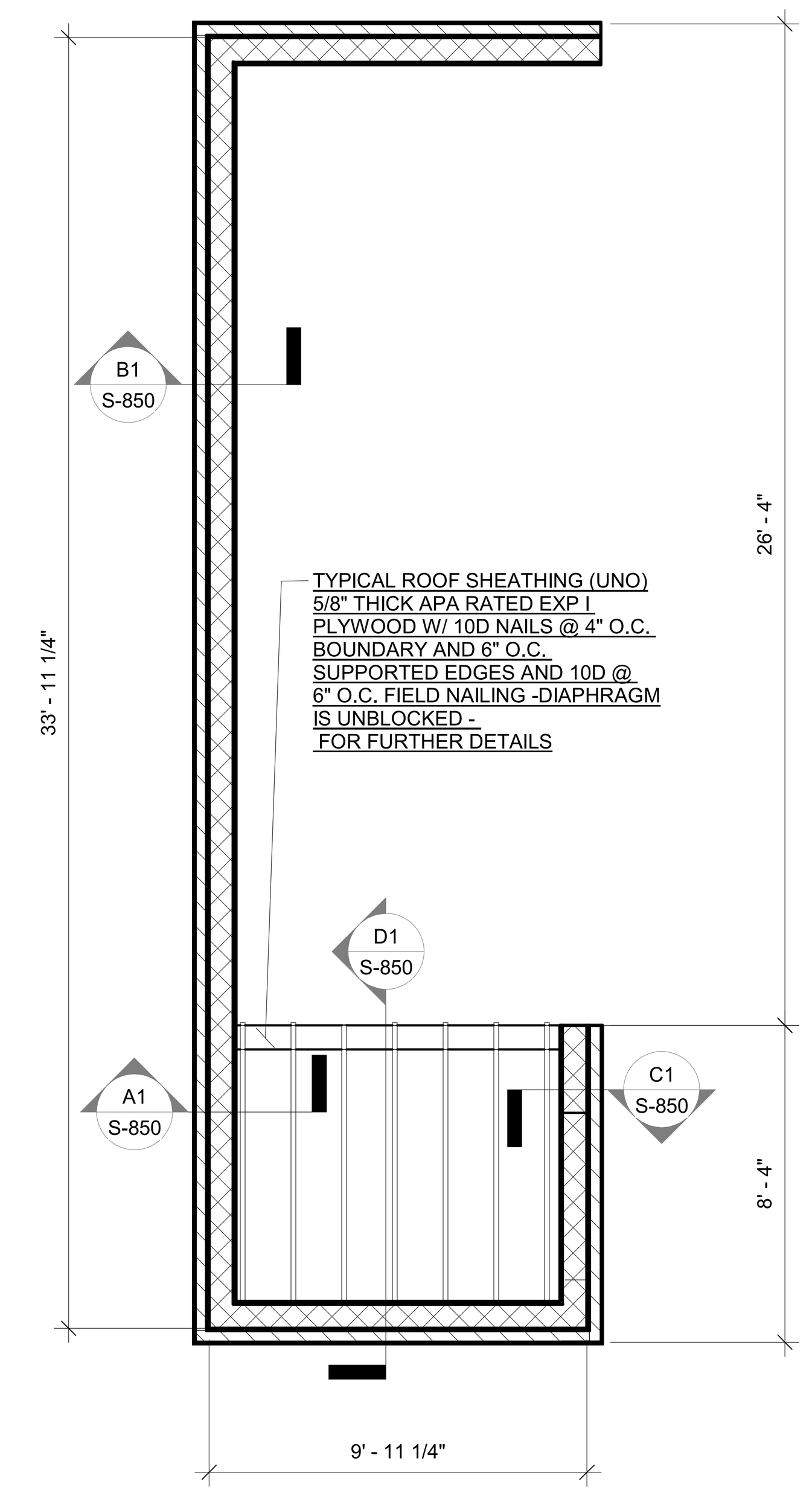
20-LSR-05248-S-801-TYPICAL NONSTRUCTURAL DETAILS



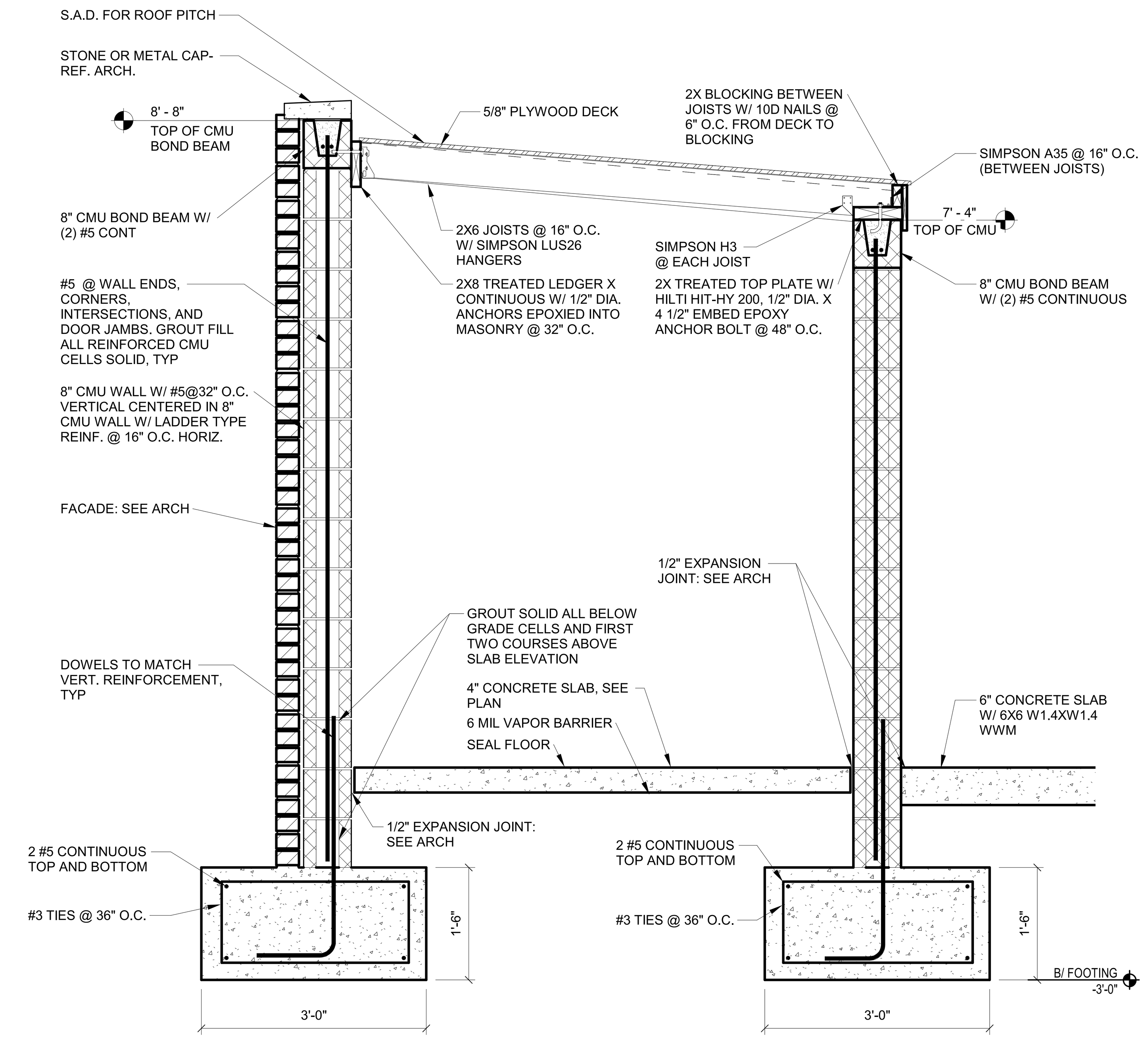
D4 BOLLARD & GATE POST - SHARED FOOTING
3/4" = 1'-0"



D3 FOUNDATION PLAN
1/4" = 1'-0"



D2 ROOF FRAMING PLAN
1/4" = 1'-0"



D1 REFUSE ENCLOSURE SECTION
1/4" = 1'-0"

1. BOTTOM OF EXTERIOR FTG = 1'-6" BELOW FINISH GRADE ELEV UNO
2. SEE ARCH DWG FOR ANY WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN.
3. SEE DETAIL A1 / S-300 FOR SLAB CONTROL JOINTS.
4. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
8. FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
9. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
10. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS, THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 1'-6" MINIMUM BELOW FINISHED GRADE.
11. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
12. SEE D1 / S-850 FOR FOOTING WIDTH. ALL FOOTINGS ARE 18" DEEP & REINFORCED WITH (2) #5 TOP AND BOTTOM CONTINUOUS.

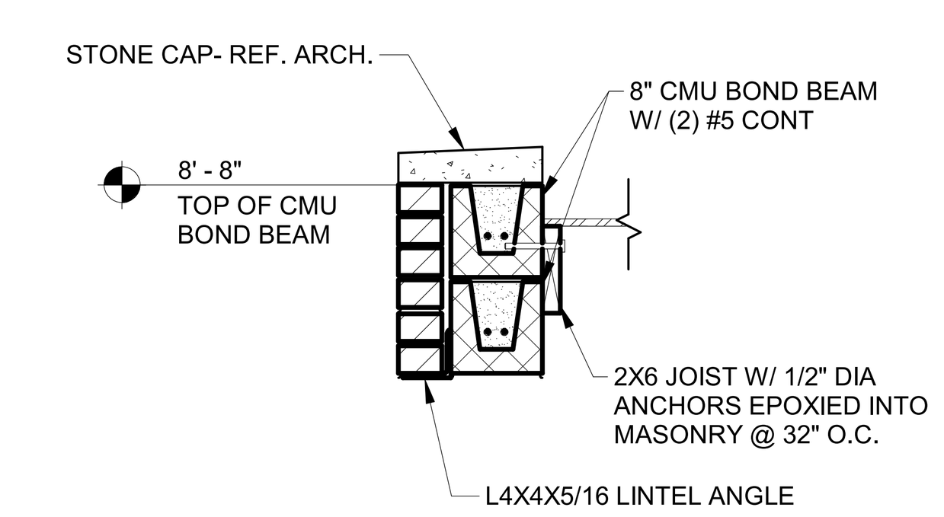
C4 FOUNDATION NOTES
1" = 1'-0"

1. SEE DETAIL D2 / S-850 FOR ROOF NAILING.
2. FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON S-600
3. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL
4. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AND ENGINEERED APPROVED EQUAL

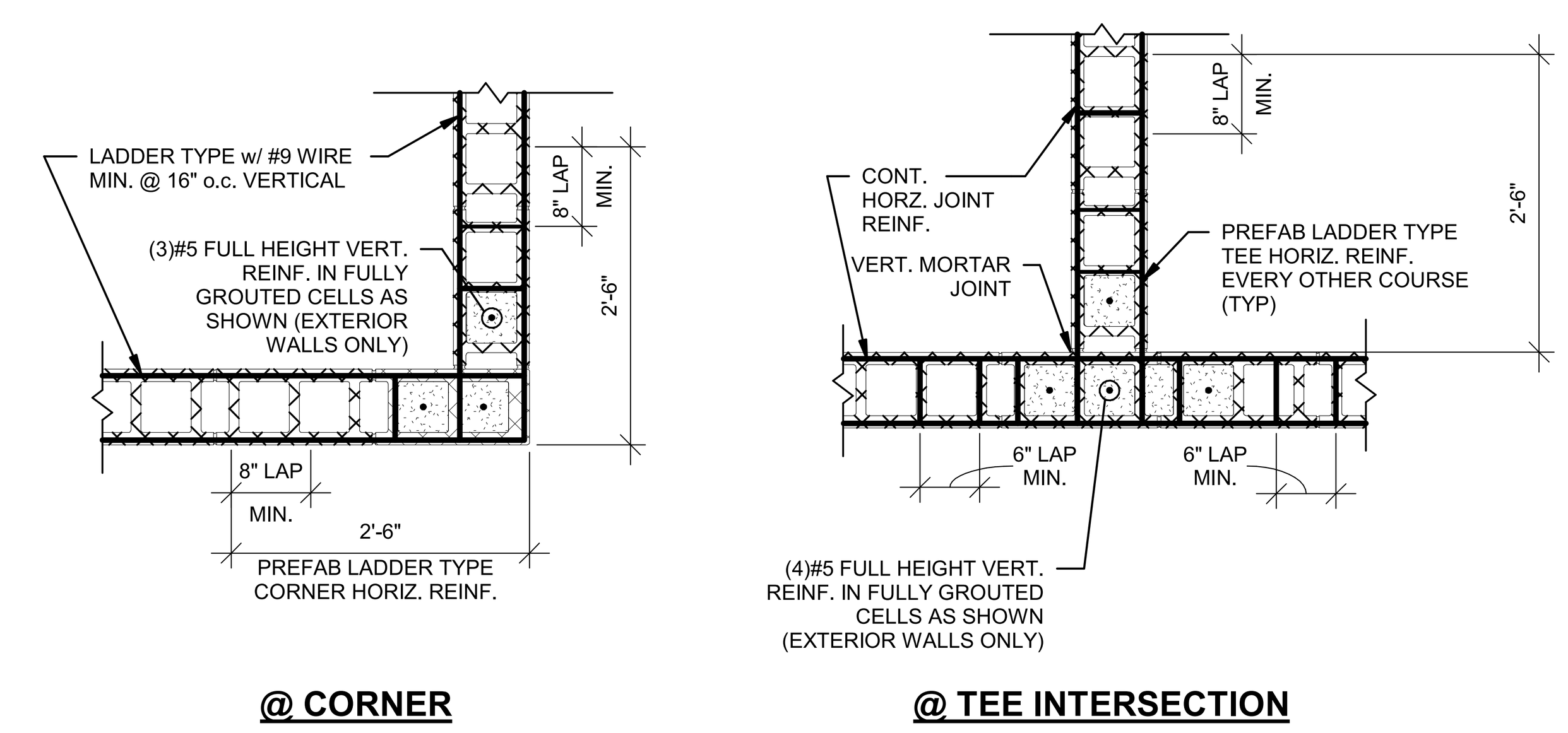
C3 FRAMING NOTES
1" = 1'-0"

1. ALL CONCRETE MASONRY UNITS SHALL BE LIGHTWEIGHT (DENSITY = 105 PCF) ABOVE FINISHED FLOOR & NORMAL WEIGHT (DENSITY = 135 PCF BELOW GRADE. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 WITH A MINIMUM ULTIMATE COMPRESSIVE PRISM STRENGTH (f'm) OF 1,900 PSI FOR THE MASONRY ASSEMBLAGE.
2. MORTAR AT ALL EXTERIOR WALLS SHALL BE TYPE "S" MORTAR. MORTAR AT MASONRY VENEER SHALL BE TYPE "N" MORTAR. ALL MORTAR SHALL CONFORM TO ASTM C270. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. ALL GROUT SHALL BE READY-MIX CONCRETE & HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI.
4. ALL CMU BOND BEAM UNITS SHALL BE REINFORCED WITH ONE #4 BAR, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS AND LAP BOND BEAM REINFORCING 48 BAR DIAMETERS.
5. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
6. ALL BOLTS, ANCHORS, REINFORCEMENT AND EMBEDDED ITEMS SHALL BE GROUTED IN PLACE.
7. ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS, EXCEPT AS NOTED OTHERWISE.
8. MASONRY WALL HORIZONTAL JOINT REINFORCEMENT SHALL BE A MINIMUM 9 GA. HOT-DIP GALVANIZED WELDED STEEL LADDER TYPE WIRE CONFORMING TO ASTM A153. SPACE HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICALLY, UNLESS NOTED OTHERWISE.
9. PROVIDE (1) VERTICAL BAR EACH CELL ADJACENT TO CONTROL JOINTS IN WALLS. PROVIDE (1) VERTICAL BAR IN EACH CELL FOR THE FIRST TWO CELLS AT ENDS OF WALLS AND WALL CORNERS. VERTICAL BARS SHALL MATCH REINFORCEMENT FOR REMAINDER OF WALL.
10. PROVIDE CONTROL JOINTS IN CMU WALLS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. PLACE JOINTS FOR EXTERIOR CMU WALLS MAXIMUM ±24'-0" O.C.

C2 CONCRETE MASONRY GENERAL NOTES
1" = 1'-0"

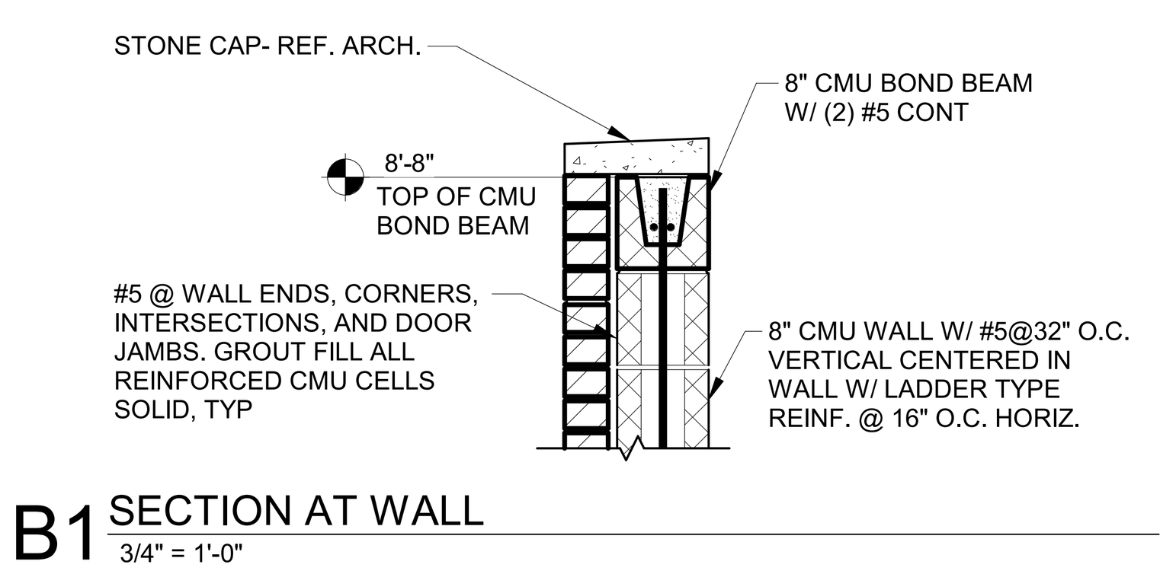


C1 SECTION ABOVE DOOR
3/4" = 1'-0"

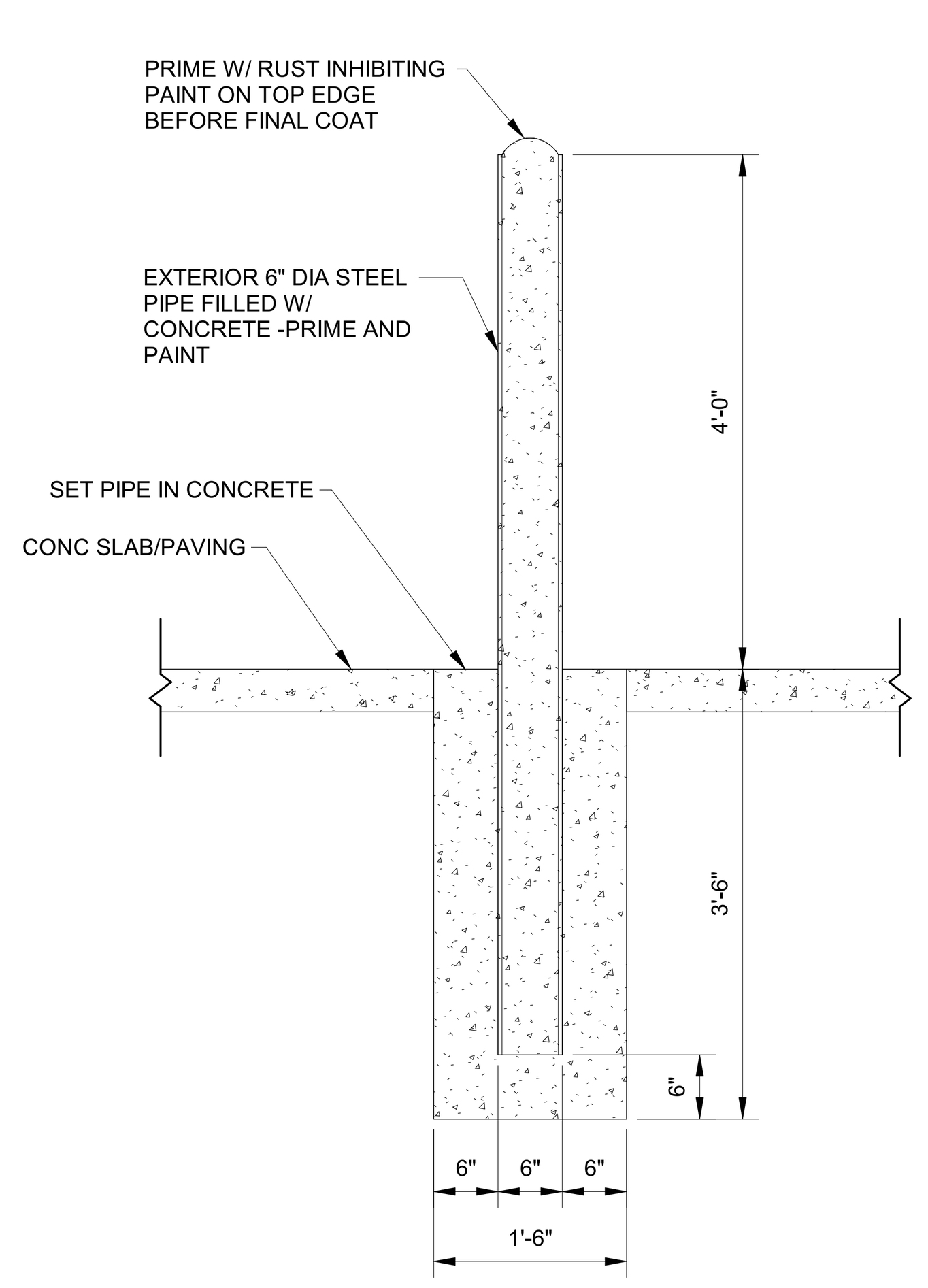


NOTE:
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.

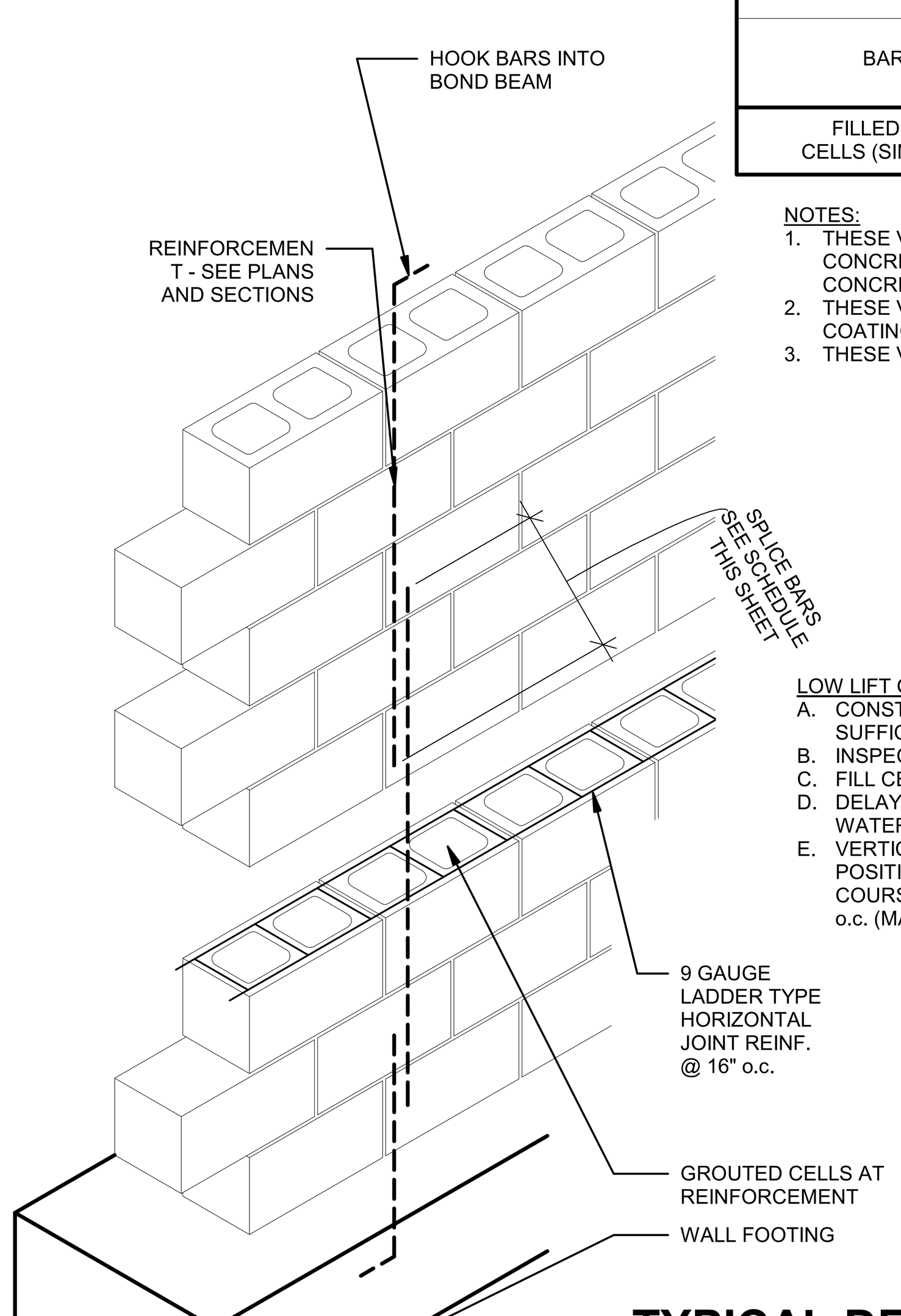
B2 CMU CORNER DETAILS
3/4" = 1'-0"



B1 SECTION AT WALL
3/4" = 1'-0"



A4 BOLLARD & GATE POST - ISOLATED FOOTING
3/4" = 1'-0"



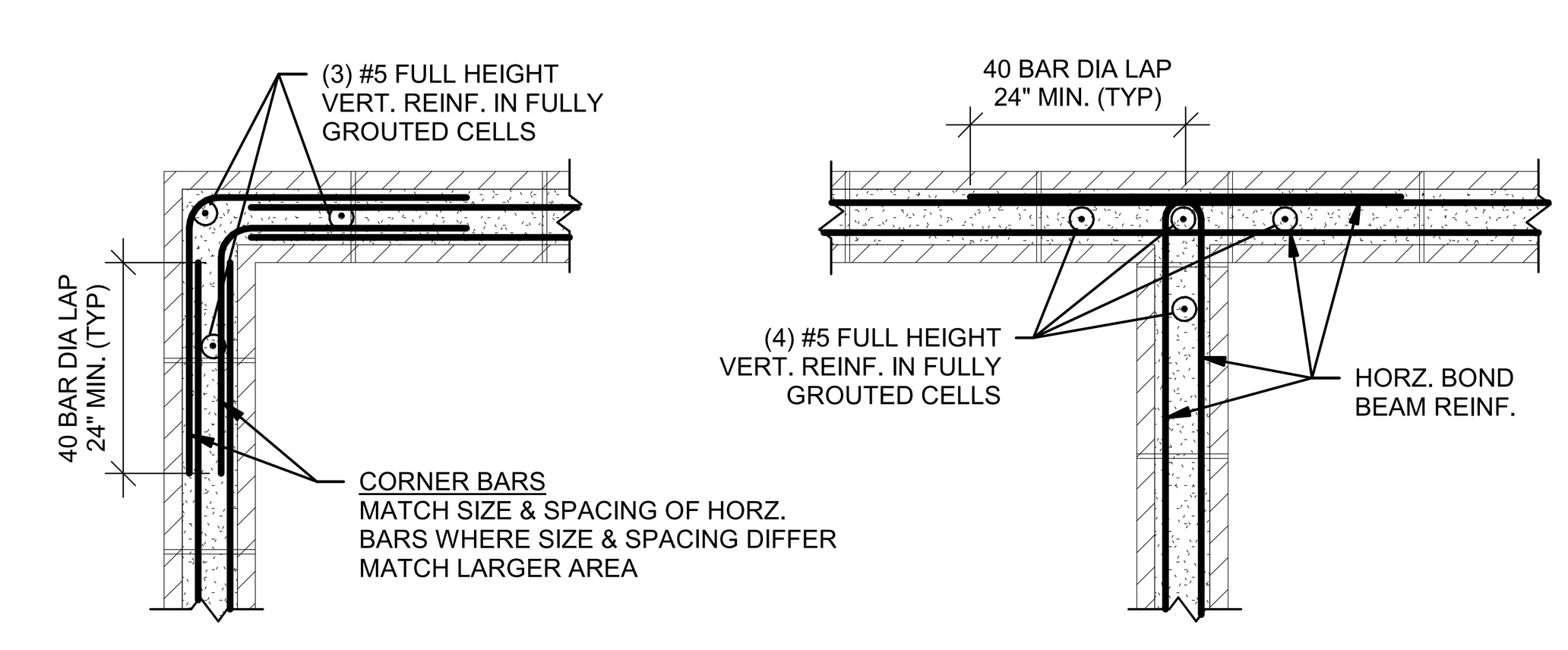
MINIMUM REINFORCING LAP LENGTH SCHEDULE							
BAR TYPE	BAR SIZE AND LAP LENGTH						
	#3	#4	#5	#6	#7	#8	#9
FILLED 8" CMU CELLS (SINGLE BAR)	19"	25"	31"	57"	79"	113"	-

NOTES:
1. THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
2. THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
3. THESE VALUES APPLY TO MASONRY w/ f'm = 1,500 PSI.

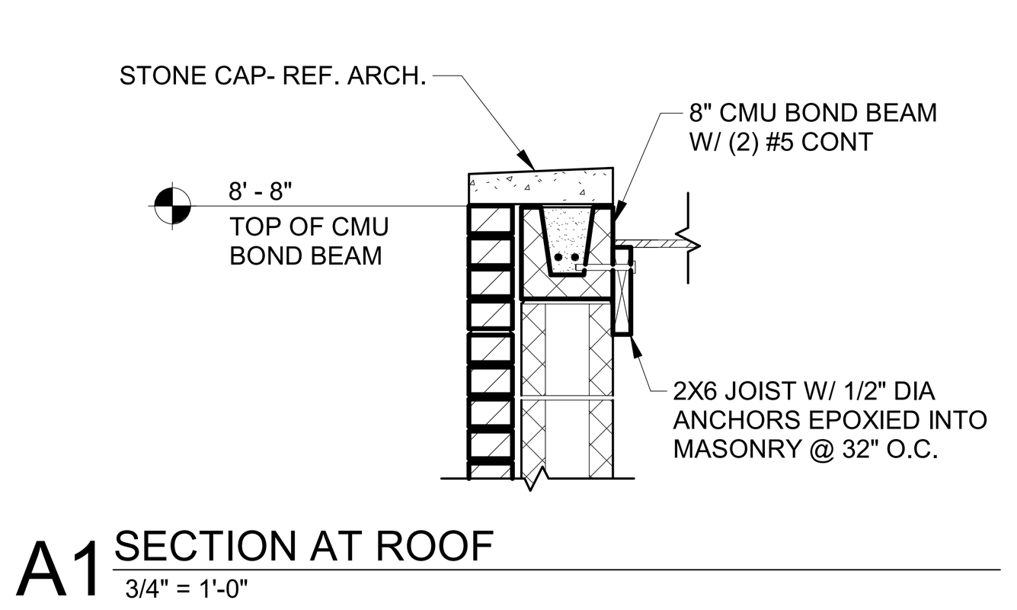
LOW LIFT GROUTING PROCEDURE:
A. CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
B. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
C. FILL CELLS TO 1½" BELOW TOP COURSE.
D. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
E. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" o.c. (MAX.)

TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION

A3 LOW-LIFT CMU WALL DETAIL
3/4" = 1'-0"



A2 MASONRY BOND BEAM CORNER DETAILS
3/4" = 1'-0"



A1 SECTION AT ROOF
3/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

BRITT, PETERS AND ASSOCIATES INC.
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Greenville, SC 29601
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BPA Project No. 240741

STATE OF MISSOURI DAVID F. PAPSON NUMBER PE-2019044... PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
REFUSE ENCLOSURE PLANS AND DETAILS

SHEET NUMBER
S-850

C03300: FOOTINGS/ SLAB ON GRADE
PART 1 - GENERAL

1.1 SUMMARY
A. This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Design Mixtures: For each concrete mixture.
C. Shop Drawings: For steel reinforcement.
D. Material: test reports & certificates.

1.3 QUALITY ASSURANCE
A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
   1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
B. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
   1. ACI 301, "Specification for Structural Concrete," Sections 1 through 5.
C. Preinstallation Conference: Conduct conference at Project site.

PART 2 - PRODUCTS (C03000)

2.1 FORM-FACING MATERIALS
A. Wood Form Materials: At the discretion of the contractor.

2.2 STEEL REINFORCEMENT
A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.
B. Plain-Steel Welded Wire Reinforcement: ASTM A1064/A1064M, plain, fabricated from as-drawn steel wire into flat sheets.
C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.3 EMBEDDED ITEMS
A. All embedded rough hardware shall be of material and grade as indicated in the drawings unless otherwise noted.
B. All embedded rough hardware in contact, or potentially in contact, with preservative-treated lumber to AWPA UC3 or less shall be hot-dip galvanized in accordance with ASTM A153.
C. All embedded rough hardware in contact, or potentially in contact, with preservative-treated lumber to a leven in excess of AWPA UC3 shall AISI Type 304 or Type 316 stainless steel.
D. All remaining embedded rough hardware shall be G90 galvanized.

2.4 CONCRETE MATERIALS
A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
   1. Portland Cement: ASTM C 150, Type I or II, unless otherwise noted.
B. Normal-Weight Aggregates: ASTM C 33, graded, 3/4-inch (19-mm) nominal maximum coarse-aggregate size.
C. Water: ASTM C 94/C 94M and potable.
D. Air-Entraining Admixture: ASTM C 260.
E. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
   1. Retarding Admixture: ASTM C 494/C 494M, Type B.
   2. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.5 VAPOR RETARDERS
A. Plastic VAPOR RETARDER: 10 mil polyethylene film, U.O.N.
2.6 CURING MATERIALS
A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.
B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
C. Water: Potable.
D. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A

2.7 RELATED MATERIALS
A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.

2.8 CONCRETE MIXTURES
A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
B. Proportion normal-weight concrete mixture as follows:
   1. Minimum Compressive Strength for footings and slab on grade: 3000 psi at 28 days; all other locations, use 4000 psi, unless noted otherwise.
   2. Slump Limit: 4" TO 5", 8" (200 mm) if a plasticizer is used.
   3. Air Content: 3 - 6 percent for all exterior concrete.

2.9 CONCRETE MIXING
A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116, and furnish batch ticket information.
   1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

2.10 GROUT
A. Measure, batch, mix, sample and test according to ASTM C476
   a. Minimum Compressive Strength: The larger of; 3000 psi at 28 days & minimum compressive strength of concrete, U.O.N.
   b. Grout Type: Conventional Grout with Coarse aggregate

PART 3 - EXECUTION

3.1 FORMWORK
A. Design, erect, shore, brace, and maintain formwork according to ACI 301 to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
C. Chamfer exterior corners and edges of permanently exposed concrete.

3.2 EMBEDDED ITEMS
A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR RETARDERS
A. Plastic Vapor Retarders: Place, protect, and repair vapor retarders according to ASTM E 1643 and manufacturer's written instructions.
   1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT
A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
   1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
B. Clear Concrete Cover: U.O.N. on drawings, maintain coverage to face of reinforcing bars as follows:

Location	Clear Cover
Cast against earth:	3 in.
Formed & exposed to earth or weather:	
Slabs, walls	2 in. (1-1/2 in. for #5 & smaller)
Beam ties	1-1/2 in.
Beam primary reinf.	1-1/2 in.
Not exposed to earth or weather:	
Slabs, walls, joists	3/4 in.

Note: Tolerances per ACI 117

3.5 JOINTS
A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
   1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch (3.2 mm). Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
   2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- (3.2-mm-) wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

3.6 CONCRETE PLACEMENT
A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
B. Do not add water to concrete during delivery, at the project site or during placement unless approved by the architect / engineer.
C. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
   1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
D. Cold-Weather Placement: Comply with ACI 306.1.
E. Hot-Weather Placement: Comply with ACI 301.
F. Specified overall values for flatness/levelness shall comply with ACI 117 "Flat" floor surface classification, U.O.N.:
   1. Specified overall flatness: 35
   2. Specified overall levelness: 25
   3. Specified Floor Flatness at recessed slabs: 50
   4. Floor surfaces shall be measured within 24 hours after completion of slab concrete finishing operations and before removal of any supporting shores. Measurements shall be reported to key parties as soon as possible, but not later than 72 hours after installation.
      a. Inform SEOR immediatley for remediation when any distance between wall(s) bottom plate and slab will exceed 1/4"

3.7 FINISH FORMED SURFACES
A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
   1. Apply to concrete surfaces not exposed to public view.
B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
   1. Apply to concrete surfaces exposed to public view.
C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.8 FINISHING FLOORS AND SLABS
A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
B. Wood Float Finish: Areas scheduled to receive quarry or ceramic tile are to be finished to a slightly gritty surface texture with straight continuous strokes with a stiff bristle push broom. do not steel trowel any areas to receive tile.
C. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.

3.9 CONCRETE PROTECTING AND CURING
A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
   1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.
   2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
   3. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

3.10 CONCRETE SURFACE REPAIRS
A. Allow Owner to inspect concrete surfaces immediately upon removal of forms.
B. Defective Concrete: Repair and patch defective areas when approved by Owner.
C. Repair or replacement of defective concrete will be determined by the Owner.
D. Do not patch, fill, touch-up, repair or replace exposed concrete except upon express direction of Owner for each individual area.
E. Honeycomb or embedded debris in concrete is not acceptable. Notify owner upon discovery.

3.11 FIELD QUALITY CONTROL
A. Testing and Inspecting: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
   1. Testing Services: Tests shall be performed according to ACI 301.

END OF SECTION C03300

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
A: STRUCTURAL STEEL
PART 1 - GENERAL

1.1 SUMMARY
A. Section includes structural steel and grout.

1.2 DEFINITIONS
A. Structural Steel: Elements of structural-steel frame, as classified by AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
   1. All structural steel work shall conform to the AISC Manual of Steel Construction Thirteenth Edition "Allowable Stress Design".

1.3 PERFORMANCE REQUIREMENTS
A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand loads indicated and comply with other information and restrictions indicated.
   1. Select and complete connections using schematic details indicated and AISC 360.
   2. Use ASD; data are given at service-load level.
B. Moment Connections: Type FR, fully restrained.

1.4 ACTION SUBMITTALS
A. Product Data: For each type of product indicated.
B. Shop Drawings: Show fabrication of structural-steel components.
   1. Submit Shop Drawings confirming that the connections have been designed in accordance with the AISC Codes specified. The Shop Drawings shall include complete details and schedules for fabrication and assembly of structural steel members. Reproduction of structural drawings for shop drawings is not permitted.

1.5 INFORMATION SUBMITTALS
A. Qualification Data: For qualified Installer, fabricator, and testing agency.
B. Welding certificates.
C. Mill test reports for structural steel, including chemical and physical properties.
D. Source quality-control reports.

1.6 QUALITY ASSURANCE
A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
B. Installer Qualifications: 5 years experience with projects of similar complexity.
C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
D. Comply with applicable provisions of the following specifications and documents:
   1. AISC 303.
   2. AISC 360.
   3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

PART 2 - PRODUCTS

2.1 STRUCTURAL - STEEL MATERIALS
A. W-Shapes: ASTM A 992/A 992M.
B. Channels, Angles, M , S-Shapes: ASTM A 36/A 36M.
C. Plate and Bar: ASTM A 36/A 36M.
D. Cold-Formed Hollow Structural Sections: ASTM A 500, Grade B, structural tubing.
E. Steel Pipe: ASTM A 53/A 53M, Type E or S, Grade B.
F. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS
A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish, U.O.N.
   1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
B. High-Strength Bolts, Nuts, and Washers: ASTM A 490, Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, (ASTM A 563M, Class 10S) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers with plain finish, U.O.N.
   1. Direct-Tension Indicators: ASTM F 959, Type 490, compressible-washer type with plain finish.
C. Headed Anchor Rods: ASTM F 1554, Grade 36, weldable, straight, U.O.N.
   1. Finish: G90 galvanized U.O.N.
   2. Embed 12 Bolt diameters or 12" minimum U.O.N.
D. Threaded Rods: ASTM F 1554 Grade 36, U.O.N.
   1. Finish: G90 galvanized U.O.N.
   2. Embed 12 Bolt diameters or 12" minimum U.O.N.

2.3 PRIMER
A. Low-Emitting Materials: Paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Primer: SSPC-Paint 25, Type II, zinc oxide, alkyd, linseed oil primer.
C. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.

2.4 GROUT
A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.5 FABRICATION
A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
B. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions (Do not use single fin plate).

2.6 SHOP CONNECTIONS
A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
   1. Joint Type: Snug tightened.
   2. Minimum diameter of bolts shall be ¾", maximum diameter shall be 1 1/8"unless noted otherwise on drawings.
   3. Provide at least (2) two bolts per connection.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

2.7 COATINGS
A. SHOP PRIMING
   a. Shop prime steel surfaces except the following:
      - Surfaces receiving galvanizing.
      - Surfaces to be field welded.
      - Surfaces to be high-strength bolted with slip-critical connections.
   b. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
      - SSPC-SP 2, "Hand Tool Cleaning."
      - SSPC-SP 3, "Power Tool Cleaning."
   c. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 2.5 mils (0.063 mm). Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
B. SHOP GALVANIZING
   a. Shop galvanize all steel surfaces to be embedded in concrete. For partially-embedded items (e.g. posts with baseplates), galvanize to 6" above the embedment depth.
   b. Acceptable galvanizing methods:
      - Hot-dip galvanize (HDG) to G90 designation per ASTM A653
      - Cold-spray galvanizing product and application technique in conformance with ASTM A-780. Acceptable products include (but are not limited to):
         1. ZRC Cold Galvanizing Compound

2.8 SOURCE QUALITY CONTROL
A. Testing Agency: Owner will engage an independent testing and inspecting agency to perform shop tests and inspections and prepare test reports.
   1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
B. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.
C. Bolted Connections: Shop-bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
D. Welded Connections: In addition to visual inspection, shop-welded connections will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
   1. Liquid Penetrant Inspection: ASTM E 165.
   2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
   3. Ultrasonic Inspection: ASTM E 164.
   4. Radiographic Inspection: ASTM E 94.

PART 3 -EXECUTION

3.1 EXAMINATION
A. A. Verify, with steel Erector present, elevations of concrete-and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ERECTION
A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
B. Base Bearing and Leveling Plates: Clean concrete-and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
   1. Set plates for structural members on wedges, shims, or setting nuts as required.
   2. Weld plate washers to top of baseplate.
   3. Snug-tighten typical base plate anchor rods, Pretension anchor rods in moment frames after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
   4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."

3.3 FIELD CONNECTIONS
A. A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
   1. Joint Type: Snug tightened.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
   1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

3.4 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
B. Bolted Connections: Bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
C. Welded Connections: Field welds will be visually inspected according to AWS D1.1/D1.1M.
   1. In addition to visual inspection, field welds will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
      a. Liquid Penetrant Inspection: ASTM E 165.
      b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
      c. Ultrasonic Inspection: ASTM E 164.
      d. Radiographic Inspection: ASTM E 94.
Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

END OF SECTION C05000A

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
B: SURE-BOARD® SERIES 200 PANEL FOR SHEAR AND SHEATHING
PART 1 - GENERAL

1.01 WORK INCLUDED
A. Inclusion:
   1. The extent of SURE-BOARD® shear panel/sheathing is shown on the drawings, including basic layout, gypsum, non-combustible or combustible sheathing materials to be laminated to our steel sheet, fastener type, spacing for attachment of Series 200/200W and Series 200S Sure-Board® that may be required for interior and exterior use.

1.02 RELATED WORK SPECIFIED ELSEWHERE.
A. Related Sections:
   1. Structural Steel Framing: Section 05400.
   2. Wood framing: Section 06000.
   3. Rigid insulation: Section 07240.
   4. Sheet Metal: Section 07600.
   5. Acoustical Batts: Section 07500.
   6. Gypsum Board: Section 09226

1.03 CODE COMPLIANCE
A. Codes and standards:
   1. AISI, North American Specifications for the Design of Cold-Formed Steel Structural Members, 2010 Edition.
   2. 2009/2012/2015/2018 IBC/2009/2012/2015/2018 IRC/ASCE/SEI 7/2013/2016 CBC 2014/2017 LABC.
   3. ASTM, designations as specified.
   4. IAPMO-ES Evaluation Report Number ER-0126 for Steel and Wood framing
   5. ICC-ES Evaluation Report Number ER 5762 for steel framing.
   6. MEA New York City Building Department
   7. Florida State/Miami-Dade Building Department and Codes

1.04 QUALITY ASSURANCE
A. Annually Inspected/Approved Manufacturing:
   1. Sure-Board® Shear Panel Quality Assurance Manual.

1.05 PERFORMANCE REQUIREMENTS
A. Shear wall shear capacity:
   1. The gage for framing and attachment of the Sure-Board® Shear panel is designed by the EOR (engineer of record) to provide a panel shear capacity in accordance with IAPMO-ES evaluation report number ER-0126/DSA IR A-5/Los Angeles City Research Reports 25461/Miami-Dade/City of New York and State of Florida. Whichever should apply to the specific project and Geographical or Seismic Zone or Wind Zone location.
   2. No other similar materials, stated load capacities or methods of attachment to framing studs/track/plates other than those stated on these approvals for Sure-Board® products will be acceptable as an equal.
B. Fire Rated Use:
   1. Sure-Board® Series 200/200W and 200S Sure-Board®panels have been fire tested/reported by ITS Intertek Testing Laboratories and Fire-Stance certified to be used on 1 and 2 hour fire rated, load bearing and non-load bearing CFS/Wood Framed assemblies for interior and exterior use.

1.06 SUBMITTALS
A. Shop drawings:
   1. Shear wall layout, framing and supports, with dimensions and sections.
   2. Shear wall/Diaphragm load tables using Sure-Board®Series 200/200W/200S panels, fastener size/type and spacing will be attached to designed shear walls that define the size of required collector posts for shear, along with required wall framing hardware, size or gage and on center stud/joist spacing for Vertical/Diaphragm and Concentrated loads as well as lateral load resistance that have been engineered.
   3. Details of proprietary or non-proprietary components if included.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING
A. Sure-Board®panel:
   1. All Sure-Board® panels shall be packaged and handled to prevent damage during shipping and unloading.
   2. Cover Sure-Board® panels with waterproof material and ventilate to avoid condensation before installation.
   3. Store Sure-Board® off ground with one end elevated for moisture drainage.
   4. Do not bend sheet steel or break/mar gypsum board sheet while handling. If damage to panel should occur, repair of panel may be approved by manufacturer.

PART 2 - PRODUCTS

2.01 MATERIALS, FASTENERS, ADHESIVE AND FINISHED PANELS
A. Galvanized Steel:
   1. No.22 gage 0.027 inch (0.686mm) base-metal thickness minimum per ASTM A 653 CS Grade 33/hot dipped galvanized G40 minimum per ASTM A 924.

B. Wallboard/Fiber Cement Sheathing Compliance:
   1. Wallboard complies with ASTM C 1325, C 1369, C 1177, C 1278, C 1288, C 1185 and C 1186 including MgO/Fiber Cement Sheathing.

C. Fasteners:
   1. The fasteners used to fasten the Sure-Board®Series 200/200S Structural Panels to the steel framing are self-drilling/self-tapping pilot point flat head screws, #8 minimum diameter 0.138-inch (3.5 mm), with a minimum 0.3145-inch (8.0 mm) head diameter,1.5-inch (31.7 mm) long, and a 3/8-inch minimum drill tip, complying with SAE J78, ASTM C 1513 and ASTM C 954. ESR-1271 by John Grabber & Assoc. or equal. Series 200S should use #8 X 1-5/8" lg. Winged Driller Grabber Super Drive LOX drive screws or equal. See ICC-ES Report ESR-1271. Series 200W Structural Panels when fastened to steel framing are attached with #10 X 3/4" minimum self-drilling/self-tapping pan-head screws. For wood framing the Sure-Board® Series 200 Structural Panels are fastened with #8 X 2" minimum wood screws. Sure-Board® Series 200W Structural Panels when attached to wood framing are fastened with 10d X1 ¼" minimum smooth plywood nails.
D. Adhesives:
   1. The non-structural adhesive used to attach the steel to the gypsum wallboard or other non-structural sheathing shall be a water soluble, non-combustible type adhesive.
E. Finished Sure-Board® Sheet Steel Panels:
   1. The sheet steel is No. 22 gage /0.027 inch (0.686 mm) minimum base-metal thickness complying with ASTM A 653 CS, Grade 33, and is provided with a G40 minimum hot-dipped galvanized coating conforming to ASTM A 924. Available width of 48 inches (1219 mm) and lengths of 4feet through 12 feet (2438 through 3658 mm). Note: Special cut lengths are available upon request.
F. Finished Sure-Board® Panels:
   1. Sure-Board® Series 200 Structural Panels:
      Each panel consist of 1/2, 5/8 or 3/4 inch (12.7, 15.9 or 19.1 mm) thick square or tapered-edge Type X or Type C Fire Rated gypsum wallboard or water resistant core complying with ASTM C 1369, fiber reinforced cement board complying with ASTM C 1325 as well as glass mat gypsum substrate complying with ASTM C 1177 and fiber reinforced gypsum panels complying with ASTM C 1278, laminated with water soluble adhesive to steel sheet. The steel sheet is No. 22 gage /0.027 inch (0.686 mm) minimum base- metal thickness, complying with ASTM A 653 CS, Grade 33, and is provided with G40 minimum hot-dipped galvanized coating conforming with ASTM A 924. Available width of 48 inches (1219 mm) and standard lengths of 8 through 12 feet (2438 through 3658 mm).
   2. Sure-Board® Series 200W Structural Panels: Each panel consist of a minimum1/8 inch (3.18 mm) thick sheet of medium density fiberboard or non-combustible substrate, laminated with water based adhesive to sheet steel. Series 200S Sheathing Panels: Each panel consists of a minimum .46 inch thick non combustible sheathing laminated with water based adhesive to steel sheet. The sheet steel is No. 20 gage/ 0.33 inch (0.838 mm) minimum base metal thickness for Floor Sheathing and No. 20 gage/0.033 inch (0.838 mm) minimum base metal thickness for Roof Sheathing complying with ASTM A 653 CS, Grade 33, and provided with a G40 minimum hot-dipped galvanized coating conforming to ASTM A 924. Available width of 48 inches (1219 mm) and standard lengths of 4 feet through 4 feet (1219 mm).
      Note: Custom lengths of 8 through 12 feet (2438 through 3658 mm) available on request.

Part 3 - INSTALLATION/FASTENERS/CUTTING/REPAIRING SURE-BOARD®

3.01 Installation and Cutting Sure-Board® Series 200/200W/200S
A. Condition of Material Pre-Installation Sure-Board® Series 200/200W and 200S
   1. Always install Sure-Board® Series 200 when conditions and material are dry. If the Sure-Board®Series 200 panels are not covered or stored in a dry location, and should get wet due to gypsum products, you keep materials dry at all times, before installation. All gypsum panels are different in their physical composition and are manufactured for specific uses. Follow all appropriate manufacturers recommendations for storage, handling and installation of your Sure-Board®.The steel sheet is always attached against the framing studs to accomplish resistance capacities stated in Manufacturers tables for lateral force resistance.

B. Fasteners and Application for installing Sure-Board® Series 200/200W and 200S
   1. Installing Sure-Board® Series 200 only requires the use of standard electric gypsum screw guns, if you intend to use hand fed screws. If you choose to use a collated screw gun, which can be very cost effective, due to the large quantity of fasteners required for some Sure-Board® panels, that is acceptable as well. Note: We have noticed over the years, that when contractors are field installing Sure-Board®, instead of building walls using panelization or a prefabricated system process is commonly performed by an apprentice worker at a lower cost per hour to the contractor. With the collated screw gun application, this method can be very cost effective.
   2. One very important requirement when installing Sure-Board® Series 200/200W and 200S, is available, in the required length (per your specific conditions and approved plans).
      Important Note: The spacing of the Floor Joist (FJ) or the Roof Rafters (RR) have maximum spacing requirements.
      1.) The Series 200S-F ¾" floor sheathing may be installed on FJ/RR at 24" O.C. maximum spacing. Exception: Where FJ do not receive topping such as Gypcrete/ Level Rock, the FJ should be installed at 16" O.C. to accommodate all soft and rigid floor materials
      2.) The Series 200S-P ½" roof sheathing must be installed on RR at 16" O.C. maximum spacing. All Series 200S Panels should be installed with staggered joints in each the end of the row at the overhang or rim joist still apply. Occasionally minor cracking may occur in Fiber Cement Sheathing due to handling or excessive weather conditions during assembly and construction. These cracks do not cause any adverse condition to be of concern.
      The Series 200 screws must have a longer drill tip (minimum 3/8" long), to avoid the "jacking" of the sheet steel from the stud and track during installation. The longer drill tip screws and a list of many other important tools and fasteners that are suggested for use with Sure-Board® may be attached to this installation letter. If not attached, they are also available on our website at www.sureboard.com and at www.sureboardtools.com. The depth of the head of the bugle head screws into the gypsum that occurs during the installation of the fasteners is adjustable on all standard gypsum screw guns used today. We suggest that the fastener heads be installed flush to the panel face material or just below the surface at the field and perimeter edges, and a minimum of 3/8" setback from all edges of the panel. Sometimes this edge spacing will vary, but as long as the majority of the screws are within ¼" from the edge of the panel, the structural integrity is not compromised. Unlike wood-based products (plywood and OSB), Sure-Board® may have screws added where necessary, if some of the fasteners are over-screwed below the surface of the panel or even have some fasteners installed closer than the recommended 3/8" to center of fastener from the perimeter edge, without compromising the structural integrity of the panel.
      Note: If unintentional over-screwing occurs in excess as defined by EOR, additional screws between the existing screws may be added, with no adverse affect to the structural performance of the Sure-Board® panel.

C. Installation of Series 200/200W Panels in Vertical and Horizontal Orientation Recommended Installation of Structural Strapping on the Surface of the Sure-Board® Series 200/200W Panels instead of beneath the Sure-Board® Steel Sheet
   1. For installation of Sure-Board® Series 200 and 200W in the Perpendicular or Horizontal Orientation to the framing you must include either blocking or a minimum 1 ½ inch wide flat strapping that is the same gage as the framing materials field studs and track or field studs if heavier track material is used, at all horizontal or vertical joints of all panels.
      Note: When Panels are installed either in the Vertical or Horizontal Orientation to the framing studs, there is No Structural Requirement that the "Butt End" joints of the Sure-Board® Panels Must be Staggered in each Adjoining row to maintain Stated Structural Capacities in our Evaluation Report. The Straight Line Installed Joint of these stacked Panels will allow for a much more efficient framing and finishing process. There are also specific conditions where the engineer may require nail or screw attached surface applied vertical floor to floor strapping. We recommend that those vertical straps be applied over the Sure-Board® Series 200 sheet steel, instead of behind the Sure-Board® directly to the studs. The installation of the straps and fasteners under the Sure-Board® Series 200 panels may cause unsightly bulges in the finish surface.
      Note: The standard in the industry for wood construction is for the straps to be applied over the wood shear panels. This method allows the inspector to see the fasteners into the strap during the required inspections. With Sure-Board®, it is preferable for the Sure-Board® sheet steel to be installed flush to the stud surface whenever possible to allow for an even and undisturbed finish to the wall. Installing the straps over the Sure-Board® Series 200 steel panels may be accomplished by first hanging and fastening the Sure-Board® Series 200 panels to the studs. After installation is complete, through the use of a drywall knife or router, score the drywall and remove the screws in the Sure-Board® panels as necessary to allow for the removal of the unwanted gypsum where the strap is to be installed. Attach the strap over the Sure-Board® sheet steel and re-attach the sheet steel of the Sure-Board® panel into new holes with the appropriate self tapping pan head fasteners into the provided studs or backing through the Sure-Board®sheet steel. Now the Sure-Board® panel is ready for inspection. This method allows the Sure-Board® Series 200 panel to be attached flush and the strap to be recessed into the gypsum panel and attached directly to the stud flange surface with no visual effect to the finish. After the inspection, the gypsum patch is easily installed and finished. (Note: The gypsum sheet is not a structural component, once the Sure-Board® Series 200 panel has been installed.) When using Series 200W the strapping may be applied over the substrate sheathing without causing unwanted surface irregularities any different than wood panels. The MDF Sheathing is not a structural component. (Note: If during installation and fastening of the panels to the Wood or CFS Framed walls, the nail heads or screw heads should be embedded into the MDF sheathing, below the surface of the MDF "deeper" than we recommend in our literature, will not adversely affect the structural performance of the Sure-Board® Series 200W Panels.)
   2. There are also situations where the structural engineers use horizontal strapping to tie walls together and transfer loads. When this occurs, the same method of gypsum removal is acceptable. In certain situations, the Sure-Board® 22 gage (.027) sheet steel panel may be adequate for the horizontal drag attachment alone. In that case no strapping will be required atall. These conditions are ultimately the decision of the engineer of record and the existing governing agencies.
   3. Installation of the Series 200S sheathing is intended to have the extended steel tab projected toward the next row of sheathing and covered and used as a support member for the sheathing material between the floor joists and roof rafters to eliminate the need for additional blocking or backing. This method was demonstrated as very effective in testing when screwed into at each horizontal row and should be the standard installation procedure. If you have any installation or cutting questions please contact us at the Sure-Board® Technical Support Hotline in California at our toll free number: (866) 469-7432 or email at: support@sureboard.com.

D. Repairs on Field Damaged Gypsum on Sure-Board® Series 200
   1. There are isolated situations where the gypsum panel is damaged during construction by field staff, weather conditions, etc. In those cases, the repair of the damaged Sure-Board® panels may be completed using the following method: 1.) Identify the damaged piece of gypsum.
      2.) Score the gypsum panel with a drywall knife or router (set to depth of gypsum sheet).
      3.) Remove existing bugle-head fasteners in the damaged portion and re-fasten the sheet steel at the prescribed spacing with a minimum #8 x ¾" self tapping pan-head fasteners into new holes in the Sure-Board® sheet steel and the studs. 4.) After completing this operation, the Sure-Board®panel is secure. Reinstall gypsum board patch and screw off only as necessary to accommodate the taping process. The gypsum patch need only be screwed to the sheet steel of the Sure-Board® to accommodate this process.

PART 4 - FIRE RATED SURE-BOARD® ASSEMBLIES

4.01 1 and 2-Hour Firewall Conditions and Sure-Board® Series 200/200W

A. Important Cost Saving Application
   1. (Double layer 2-Hour condition) You may take advantage of the tested application of the 2nd layer of gypsum in a 2-hour firewall condition, where Sure-Board® Series 200 or 200W are the first layer. After inspection of the shear wall attachment, you may screw the 2nd layer of gypsum into the 22 gage sheet steel. This is considerably easier than attaching the 2nd layer of gypsum to the heavier gage studs. When using this method, the two important requirements are to stagger the joints of each layer of gypsum, and use a minimum #6 x 2" laminating screw at the required spacing into the 22 gage sheet steel. This will save the contractor many man hours for the typical 2-hour firewall assembly or any double layer gypsum wall assembly. Note: If there is not, however, a first layer of Sure-Board® on the 1 and 2-hour assembly, unfortunately you have no other choice, you must screw into the studs on each layer.

PART 5 - RECOMMENDED TOOLS FOR SURE-BOARD® SERIES 200/200W

5.01 Recommended Tools and Cutting of Sure-Board® Series 200

A. Cutting Sure-Board® Series 200/200W and 200S is achieved very efficiently with the use of a ferrous metal cutting blade in a typical "sidewinder" type skilsaw. There are also several specifically designed metal cutting saws with a selection of metal cutting blades, described on our Sure-Board® Tools list, for cutting up to 3/8" thick steel plate. They significantly reduce the metal fragments exiting from the guard area with their revolutionary design, keeping in mind that all metal cutting tools require the use of eye and hand protection for the Safety of the operator. Refer to our website for our available list for recommended tools, blades and fasteners used today to make the installation of Sure-Board® efficient and ultimately more profitable for the contractor.

Type of Cut Required for Sure-Board® Series 200/200S Panels:

A. Series 200 Full length or width cutting:

   1. Set blade depth to maximum 1/4" depth and cut steel only.
   2. Cut steel sheet for required length or width with skilsaw.
   3. Score gypsum with razor knife, bend over to score paper on face side.
   4. Snap cut-off piece and clean up edge with rasp if necessary.
   5. Hang Sure-Board® as you would regular gypsum and screw off.
   6. Always wear Dust and Eye Protection when Cutting all Sure-Board® Products.

B. Series 200/200S Partial length or width, outlets and opening cuts:
   1. Series 200 - Set blade depth to maximum 1/4" depth and cut steel only.
   2. Series 200 only-Cut steel where necessary, minimal over cutting may be required to allow for routing gypsum at the corners.
   3. Series 200 only-Peel off steel in required areas and hang Sure-Board® Series 200 panel as you would a regular gypsum panel, and tack to studs.
   4. Series 200 only-Use router to cut off unwanted gypsum at opening or outlet, and complete the screwing of the Sure-Board® at the prescribed spacing.

END OF SECTION C05000B

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11-18-2024

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SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE:	P14 LSR ALL
RELEASE:	24.08
PRINTED FOR	PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT #	23-3906.00
DATE	11/18/24
DRAWN BY	BCO

SHEET
STRUCTURAL SPECIFICATIONS

SHEET NUMBER
S-901

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
C: COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
 1. Load-bearing wall framing.
 2. Exterior non-load-bearing wall framing.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of cold-formed steel framing product and accessory.
B. Product Data for each type of cold-formed metal framing product and accessory indicated.
C. Shop Drawings:
 1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
 2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
 3. For cold-formed metal framing indicated to comply with design loads. Include structural analysis data signed and sealed by a qualified professional engineer in the state if the project responsible for their preparation.

1.3 INFORMATIONAL SUBMITTALS
A. Qualification Data: For testing agency.
B. Welding certificates.
C. Product test reports.
D. Research reports.

1.4 QUALITY ASSURANCE
A. Product Tests: Mill certificates or data from a qualified independent testing agency.
B. Welding Qualifications: Qualify procedures and personnel according to AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."
C. Comply with AISI S230 "Standard for Cold-Formed Steel Framing."
D. Structural design shall be in accordance with American Iron and Steel Institute specifications for the design of cold-formed steel structural members.

PART 2 - PRODUCTS (C05595)

2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements

2.2 PERFORMANCE REQUIREMENTS
A. AISI Specifications and Standards: Unless more stringent requirements are indicated, comply with AISI S100 and AISI S200.

2.3 COLD-FORMED STEEL FRAMING, GENERAL
A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
 1. Grade: 33ksi minimum yield strength for members 18ga or lighter; 50ksi minimum yield strength for members heavier than 18ga.
 2. Coating where in contact with concrete and/or PT lumber: G90
 3. Coating in all other conditions: G60, A60, AZ50, or GF30.
B. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
 1. Grade: 33ksi minimum yield strength.
 2. Coating: G60 (Z180).

2.4 LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 1. Minimum Base-Metal Thickness: 0.0428 inch.
 2. Flange Width: 1-5/8 inches.
 3. Section Properties: As required by structural performance and deflection limitations.
  a. Exterior: Horizontal deflection l/600
  b. Interior: Horizontal deflection l/240
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with straight flanges, and matching minimum base-metal thickness of steel studs.
C. Steel Box or Back-to-Back Headers: Manufacturer's standard C-shapes used to form header beams, of web depths indicated, unpunched, with stiffened flanges, and as follows:
 1. Minimum Base-Metal Thickness: 0.0428 inch.
 2. Flange Width: 1-5/8 inches.
 3. Section Properties: As required by structural performance and deflection limitations.
  a. Vertical Deflection: l/360

2.5 EXTERIOR NON-LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 1. Minimum Base-Metal Thickness: 0.0428 inch.
 2. Flange Width: 1-5/8 inches.
 3. Section Properties: As required by structural performance and deflection limitations.
  a. Horizontal Deflection: l/360.
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.
C. Vertical Deflection Clips: Manufacturer's standard head clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.
 1. Manufacturers: Subject to compliance with requirements:
  a. AllSteel & Gypsum Products, Inc.
  b. ClarkWestern Building Systems, Inc.
  c. Dietrich Metal Framing; a Worthington Industries company.
  d. MarinoWARE.
  e. SCAFCO Corporation.
  f. Steel Network, Inc. (The).
  g. Steeler, Inc.
D. Single Deflection Track: Manufacturer's single, deep-leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal loads and transfer them to the primary structure.
E. Double Deflection Tracks: Manufacturer's double, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.
F. Drift Clips: Manufacturer's standard bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure through positive mechanical attachment to stud web and structure.

2.6 FRAMING ACCESSORIES
A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.
B. Provide accessories of manufacturer's standard thickness and configuration.

2.7 ANCHORS, CLIPS, AND FASTENERS
A. Steel Shapes and Clips: ASTM A 36, zinc coated by hot-dip process according to ASTM A 123.
B. Expansion Anchors: Fabricated from corrosion-resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E 488 conducted by a qualified testing agency.
C. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with allowable load capacities calculated according to ICC-ES AC70, greater than or equal to the design load, as determined by testing per ASTM E 1190 conducted by a qualified testing agency.
D. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
 1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
 2. Length shall be such that a minimum (3) threads penetrate through opposite side of all connected materials
 3. All screws shall be placed such that they are a minimum 1.5 screw diameters from the edge of any connected material
 4. All screws shall be placed such that they are a minimum 3 screw diameters from nearest adjacent screw

2.8 MISCELLANEOUS MATERIALS
A. Galvanizing Repair Paint: SSPC-Paint 20 or MIL-P-21035B.
B. Cement Grout: Portland cement, ASTM C150, Type I; and clean, natural sand, ASTM C 404. Mix at ratio of 1 part cement to 2-1/2 parts sand, by volume, with minimum water required for placement and hydration.
C. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout containing selected silica sands, portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTMC 1107/C 1107M, with fluid consistency and 30-minute working time.
D. Shims: Load bearing, high-density multimonomer plastic, and nonleaching; or of cold-formed steel of same grade and coating as framing members supported by shim
E. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

PART 3 - EXECUTION

3.1 PREPARATION
A. Install load bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.
B. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.2 INSTALLATION, GENERAL

A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
B. Install cold-formed steel framing according to AISI S200 and to manufacturer's written instructions unless more stringent requirements are indicated.
C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
D. Install framing members in one-piece lengths.
E. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
F. Care shall be exercised at all times to avoid damage through careless handling during unloading, storing and erection of framing members and sub-assemblies.
G. Joining of framing members shall be made with self-drilling screws or welding.
H. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.
I. Erection Tolerances: Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:
 1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.3 LOAD-BEARING WALL INSTALLATION
A. Install continuous top and bottom tracks sized to match studs. Align tracks accurately and securely anchor at corners and ends, and at spacings as follows:
 1. Anchor Spacing: To match stud spacing unless noted otherwise.
B. Squarely seat studs against top and bottom tracks with gap not exceeding of 1/8 inch (3 mm) between the end of wall framing member and the web of track. Fasten both flanges of studs to top and bottom tracks. Space studs as follows:
 1. Stud Spacing: As indicated (16” maximum).
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar configurations.
D. Align studs vertically where floor framing interrupts wall-framing continuity. Where studs cannot be aligned, continuously reinforce track to transfer loads.
E. Align floor and roof framing over studs. Where framing cannot be aligned, continuously reinforce track to transfer loads.
F. Anchor studs abutting structural columns or walls, including masonry walls, to supporting structure as indicated.
G. Install headers over wall openings wider than stud spacing. Locate headers above openings as indicated. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web stiffeners, or gusset plates.
 1. Frame wall openings with not less than a double stud at each jamb of frame as indicated on Shop Drawings. Fasten jamb members together to uniformly distribute loads.
 2. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.
H. Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.
 1. If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.
I. Install horizontal bridging in stud system, spaced vertically 48 inches unless noted otherwise. Fasten at each stud intersection.
 1. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs with a minimum of two screws into each flange of the clip angle for framing members up to 6 inches (150 mm) deep.
 2. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
 3. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
J. Install steel sheet diagonal bracing straps to both stud flanges, terminate at and fasten to reinforced top and bottom tracks. Fasten clip-angle connectors to multiple studs at ends of bracing and anchor to structure.
K. Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.4 EXTERIOR NON-LOAD-BEARING WALL INSTALLATION
A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.
B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
 1. Stud Spacing: As indicated (16” o/c maximum).
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
 1. Install single deep-leg deflection tracks and anchor to building structure.
 2. Install double deep-leg deflection tracks and anchor outer track to building structure.
 3. Connect vertical deflection clips to infill studs and anchor to building structure.
 4. Connect drift clips to cold-formed metal framing and anchor to building structure.
E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on Shop Drawings but not more than 48 inches (1220 mm) apart. Fasten at each stud intersection.
 1. Top Bridging for Single Deflection Track: Install row of horizontal bridging within 12 inches (305 mm) of single deflection track. Install a combination of bridging and stud or stud-track solid blocking of width and thickness matching studs, secured to stud webs or flanges.
  a. Install solid blocking at 96-inch centers unless noted otherwise.
 2. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
 3. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
 4. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.5 FIELD QUALITY CONTROL
A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
B. Field and shop welds will be subject to testing and inspecting.
C. Testing agency will report test results promptly and in writing to Contractor and Architect.
D. Remove and replace work where test results indicate that it does not comply with specified requirements.
E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.6 REPAIRS AND PROTECTION
A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.
END OF C05000C

C06000: CARPENTRY
A: ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes the following:
 1. Framing with dimension lumber.
 2. Rooftop equipment bases and support curbs.
 3. Wood blocking, cants, and nailers.
 4. Wood furring and grounds.
 5. Wood sleepers.
 6. Plywood backing panels.
 7. Engineered Wood Products.
 8. Prefabricated wall panels.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of metal fastening product and accessory.
B. Shop Drawings:
 1. Include dimnesioned layout, material info, and connections for **all prefabricated wall panels.**

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL (C06115)
A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 1. Factory mark lumber with grade stamp of grading agency at a minimum rate of 5% of sticks used.
 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of piece.
 3. Unless otherwise noted, use lumber that has been kiln-dried to a maximum moisture content of 19 percent.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER (C06115)
A. A. Preservative Treatment by Pressure Process: AWPA UC2.
 1. Preservative Chemicals: Acceptable to authorities having jurisdiction, and containing no arsenic or chromium.
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
D. Application: Treat items indicated on Drawings, and the following:
 1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, VAPOR RETARDERs, and waterproofing.
 2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
 3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
 4. Wood framing members that are less than 18 inches (460 mm) above the ground in crawl spaces or unexcavated areas.
 5. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 FIRE TREATMENT
A. MFRT Class-A Fire Protected Lumber acceptable treatment products:
 1. Hoover: Pyro-Guard (UL ER7002-01)
 2. Fire Retardant Chemicals Technologies LLC: Flametech (ICC ESR-4056)
 3. Any substitution requests must be submitted for review & approval by project Structural Engineer
B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
C. Application: Treat items indicated on Drawings.

2.4 DIMENSION LUMBER FRAMING (C06115)
A. Maximum Moisture Content: 19 percent.
B. Non-Load-Bearing Interior Partitions w/ min 2x6@16"o.c. studs: Stud Grade or better SYP or DFL, or #2 or better SPF.
C. Framing Other Than Non-Load-Bearing Interior Partitions:
 1. Species and grade as shown on plan. Where species & grade is not called out, use DFL#2 or SYP #2. Where DFL called out on plan, SYP of same or better grade may be substituted at contractor/fabricator option.
 2. Douglas Fir-Larch grading per WCLIB or WWPA. Southern pine grading per SPIB.
 3. MSR 1650f-1.6E or better lumber may be substituted where DFL#2 or DFL#1 is called out.
 4. All other visually graded dimension lumber must be specifically designed for at the Contractor's request.
D. Exposed Exterior and Interior Framing Indicated to Receive a Stained or Natural Finish: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
 1. Species and Grade: As indicated above for load-bearing construction of same type.
 2. Species and Grade: Southern pine, No. 1 grade; SPIB.
 3. Species and Grade: Douglas fir-larch; No. 1 grade; WCLIB, or WWPA.

2.5 MISCELLANEOUS LUMBER (C06495)
A. General: Contractor to provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
 1. Blocking.
 2. Nailers.
 3. Rooftop equipment bases and support curbs.
 4. Cants.
 5. Furring.
 6. Grounds.
B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 19 percent maximum moisture content of Douglas Fir-Larch or Southern Yellow Pine.

2.6 PLYWOOD BACKING PANELS (C06496)
A. Telephone, Kitchen Equipment, and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.

2.7 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified.
 1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153 / A153M.
B. Power-Driven Fasteners: NES NER-272.
C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers, unless noted otherwise on sections and plans.
D. Nails: All nails shall be common type unless otherwise noted. HY-TEK nails manufactured and installed in accordance with ICC ESR-2648 may be used in lieu of specified nails at contractor/fabricator option as follows:

Specified Nail	Approved Alternate
8d Common	HY-TEK 3" x 0.120M
8d Long	HY-TEK 3" x 0.120M
10d Short	HY-TEK 2.25" x 0.120M (including for use as sheathing nailing)
10d Common	HY-TEK 3" x 0.120M
10d Long	HY-TEK 4" x 0.148

2.8 METAL FRAMING ANCHORS (C06115)
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Simpson Strong-Tie Co., Inc..
B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
C. Galvanized Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.

2.9 ENGINEERED WOOD PRODUCTS (C06170)
A. Engineered Wood Products, General: Products shall contain no urea formaldehyde.
B. Laminated-Veneer Lumber: Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D 5456 and manufactured with an exterior-type adhesive complying with ASTM D 2559.
 1. Extreme Fiber Stress in Bending, Edgewise: 2500 psi (min) for 12-inch nominal depth members.
 2. Fiber stress in Compression, Parallel to Grain: 2635 psi (min).
 3. Modulus of Elasticity, Edgewise: 2,000,000 psi (min).
 4. Effective Specific Gravity, SG = 0.5 (min) for all faces of member to receive fasteners.
 5. Approved products include RedLam by RedBuilt (ICC ESR-2993) and RigidLam by Roseburg (ICC ESR-1210).
C. Wood I-Joists: Prefabricated units, I-shaped in cross section, made with solid or structural composite lumber flanges and wood-based structural panel webs, let into and bonded to flanges. Provide units complying with material requirements of and with structural capacities established and monitored according to ASTM D 5055.
 1. Web Material: Either oriented strand board or plywood, complying with DOC PS 1 or DOC PS 2, Exposure
 2. Structural Properties: Provide units with depths and design values not less than those indicated.
 3. Provide units complying with APA PRI-400, factory marked with APA trademark indicating nominal joist depth, joist class, span ratings, mill identification, and compliance with APA standard.

PART 3 - EXECUTION

3.1 INSTALLATION
A. **Set wall panels to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.**
B. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
C. Framing with Engineered Wood Products: Install engineered wood products to comply with manufacturer's written instructions.
D. Metal Framing Anchors: Install metal framing to comply with manufacturer's written instructions.
E. Do not splice structural members between supports, unless otherwise indicated.
F. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
G. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 1. NES NER-272 for power-driven fasteners.
 2. Table 2304.10, "Fastening Schedule," in ICC's International Building Code.
END OF C06000 A

C06000: CARPENTRY
B: HEAVY TIMBER FRAMING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes framing using timbers.

1.2 DEFINITIONS
A. Timbers: Lumber of 5 inches nominal (114 mm actual) or greater in least dimension.
B. Inspection agencies, and the abbreviations used to reference them, include the following:
 1. SPIB: Southern Pine Inspection Bureau (The).
 2. WWPA: Western Wood Products Association.

PART 2 - PRODUCTS
2.1 TIMBER (C06115)
A. Comply with DOC PS 20 and with grading rules of lumber-grading agencies certified by ALSC's Board of Review as applicable.
 1. Factory mark each item of timber with grade stamp of grading agency.
 2. For exposed timber indicated to receive a stained or natural finish, apply grade stamps to surfaces that are not exposed to view, or omit grade stamps and provide certificates of grade compliance issued by grading agency.
B. Timber Species and Grade: Douglas Fir-Larch; No. 1, WCLIB.
C. Structural Properties: Provide any species and grade that, for moisture content provided, complies with required structural properties.
 1. Allowable Stress Ratings for 12-Inch Nominal (286-mm Actual) Depth: Fb 1500 psi (10.3 MPa) and E 1,500,000 psi (10 340 MPa)
D. Moisture Content: Provide kiln-dried timber with 19 percent maximum moisture content at time of dressing.
E. Dressing: Provide dressed timber (S4S) unless otherwise indicated.

2.2 TIMBER CONNECTORS (C06115)
A. Manufacturers: Subject to compliance with requirements:
B. Basis-of-Design Products: Subject to compliance with requirements.
C. Provide bolts, 3/4 inch (19 mm) unless otherwise indicated, complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); provide nuts complying with ASTM A 563 (ASTM A 563M); and, where indicated, provide flat washers.
D. Materials: Unless otherwise indicated, fabricate from the following materials:
 1. Structural-steel shapes, plates, and flat bars complying with ASTM A 36/A 36M.
 2. Round steel bars complying with ASTM A 575, Grade M 1020.
E. Finish steel assemblies and fasteners with rust-inhibitive primer, 2-mil (0.05-mm) dry film thickness.

PART 3 - EXECUTION

3.1 INSTALLATION
A. General: Erect heavy timber framing true and plumb. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
B. Fitting: Fit members by cutting and restoring exposed surfaces to match specified surfacing.
 1. Predrill for fasteners using timber connectors as templates.
 2. Finish exposed surfaces to remove planing or surfacing marks, and to provide a finish equivalent to that produced by machine sanding with No. 120 grit sandpaper.
 3. Coat crosscuts with end sealer.
C. Install timber connectors as indicated.
 1. Install bolts with orientation as indicated or, if not indicated, as directed by Architect.

3.2 ADJUSTING
A. Repair damaged surfaces and finishes after completing erection. Replace damaged heavy timber framing if repairs are not approved by Architect.
END OF C06000 A

C06000: CARPENTRY
C: SHEATHING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
 1. Wall sheathing.
 2. Roof sheathing.
 3. Composite nail base insulated roof sheathing.
 4. Sheathing joint and penetration treatment.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.
 2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.

1.3 INFORMATIONAL SUBMITTALS
A. Evaluation Reports: For following products, from ICC-ES:
 1. Preservative-treated plywood.

PART 2 - PRODUCTS

2.1 WOOD SHEATHING PANEL PRODUCTS (C06115)
A. Emissions: Products shall meet the testing and product requirements of the California Department of Health Services' "Standard Practicefor the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Plywood: Either DOC PS 1 or DOC PS 2 unless otherwise indicated.
C. Oriented Strand Board: DOC PS 2.

2.2 WALL SHEATHING (C06115)
A. Plywood Wall Sheathing: Exterior, Structural I sheathing.
B. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing.

2.3 ROOF SHEATHING (C06115)
A. Plywood Roof Sheathing: Exposure 1, Structural I sheathing.
B. Oriented-Strand-Board Roof Sheathing: Exposure 1, Structural I sheathing.

2.4 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
 1. Where fastening to preservative-treated lumber and/or where otherwise noted, provide fasteners with hot-dip zinc coating complying with ASTM A 153.
B. Nails: All nails shall be common type unless otherwise noted. HY-TEK nails manufactured and installed in accordance with ICC ESR-2648 may be used in lieu of specified nails at contractor/fabricator option as follows:

Specified Nail	Approved Alternate
8d Common	HY-TEK 3" x 0.120M
8d Long	HY-TEK 3" x 0.120M
10d Short	HY-TEK 2.25" x 0.120M (including for use as sheathing nailing)
10d Common	HY-TEK 3" x 0.120M
10d Long	HY-TEK 4" x 0.148

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
C. Securely attach to substrate by fastening as indicated, complying with the following:
 1. NES NER-272 for power-driven fasteners.
 2. Table 2304.10, "Fastening Schedule," in ICC's "International Building Code."
 3. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's "International Residential Code for One- and Two-Family Dwellings."
D. Coordinate wall and roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.

3.2 WOOD STRUCTURAL PANEL INSTALLATION
A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
B. Fastening Methods: Fasten panels as indicated below:
 1. Wall and Roof Sheathing:
  a. Nail to wood framing.
  b. Screw to cold-formed metal framing.
  c. Space panels 1/8 inch (3 mm) apart at edges and ends.
END OF C06000 C

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11-18-2024

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- Issued For Permit -

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
STRUCTURAL SPECIFICATIONS

SHEET NUMBER
S-902

OBJECTIVE

Establish the Special Inspections Statement Required per IBC 1704.3.1

REFERENCED STANDARDS

2019 California BC

1704.3 STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN ACCORDANCE WITH SECTION 1704.3 OF THE 2018 IBC. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, WHICH ARE TO BE PERFORMED BY A SPECIAL INSPECTOR QUALIFIED IN ACCORDANCE WITH SECTION 1704.2.1. THE SPECIAL INSPECTOR IS TO BE DESIGNATED BY THE ARCHITECT AND RETAINED BY THE BUILDING OWNER. SPECIAL INSPECTORS SHALL REFERENCE THESE PLANS AND CHAPTER 17 FOR ALL SPECIAL INSPECTION REQUIREMENTS.

SPECIAL INSPECTIONS FOR WIND RESISTANCE	REQUIRED
MAIN WIND FORCE-RESISTING SYSTEM	LIGHT-FRAME (WOOD) SHEAR BEARING WALLS
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	**REQUIRED**
SEISMIC FORCE-RESISTING SYSTEM	LIGHT-FRAME (WOOD) SHEAR BEARING WALLS

THE SPECIAL INSPECTOR(S) SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INTERIM INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT A FREQUENCY AGREED UPON BY THE DESIGN PROFESSIONAL AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE CONCLUSION OF THE PROJECT.

FREQUENCY OF INTERIM REPORT SUBMITTALS	WEEKLY

THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOBSITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

DEFINITIONS AND ABBREVIATIONS

a. FREQUENCY - REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
b. CONT - CONTINUOUS INSPECTION. SPECIAL INSPECTOR SHALL BE ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.
c. PERIODIC - PERIODIC INSPECTION. INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED CONTRACT DOCUMENTS.
d. QC - FABRICATOR OR ERECTOR INSPECTION PERSONNEL.
e. QA - THIRD PARTY INSPECTION PERSONNEL QUALIFIED IN ACCORDANCE WITH THE LOCAL BUILDING CODE REQUIREMENTS.
f. O - OBSERVE THESE ITEMS ON A RANDOM INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PREFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.
g. P - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH WELDED JOINT OR MEMBER, BOLTED CONNECTION, OR COMPOSITE STEEL ELEMENT.
h. D - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

1704.6 STRUCTURAL OBSERVATION

VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM SHALL BE PROVIDED BY A REGISTERED DESIGN PROFESSIONAL. OBSERVATION SHALL OCCUR AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE PRIMARY BUILDING STRUCTURE. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER TO ALLOW REQUIRED STRUCTURAL OBSERVATIONS TO OCCUR. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE APPLICABLE BUILDING CODE. THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE LOCATIONS OF STRUCTURAL SYSTEMS, DETAILS AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.

STRUCTURAL OBSERVATION SHALL BE PROVIDED AT THE FOLLOWING PHASES, AS A MINIMUM:

a. UPON COMPLETION OF FOUNDATION REINFORCEMENT, IMMEDIATELY PRIOR TO CONCRETE POUR
b. PERIODIC AND GENERAL CONCRETE CONSTRUCTION OBSERVATION DURING PLACEMENT OF FOUNDATIONS AND ELEVATED SLABS.
c. INSTALLATION OF LIGHT-FRAME (WOOD) SHEAR BEARING WALLS
d. ADDITIONAL OBSERVATIONS AS REQUIRED BY THE SEOR OR THE BUILDING OFFICIAL

REPORTS FOR EACH OF THE ABOVE PHASES WILL BE ISSUED TO THE CONTRACTOR FOR DISTRIBUTION TO THE SPECIAL INSPECTOR, AUTHORITY HAVING JURISDICTION, AND ARCHITECT, INDICATING GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.

GENERAL CONTRACTOR SHALL PROVIDE ALL SPECIAL INSPECTION REPORTS REQUESTED TO EOR AT THE AGREED UPON FREQUENCY ABOVE. STRUCTURAL OBSERVATIONS SHALL NOT BE REQUIRED IF THESE REPORTS ARE PROVIDED AS REQUESTED.

STEEL CONSTRUCTION (IBC 1705.2, 1705.2.1, 1705.11.3 & 1705.12.1)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS COMPONENTS.		CONTINUOUS	X	PERIODIC	WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRGAMS AND FRAMING.
SEISMIC FORCE RESISTING SYSTEMS AND ELEMENTS (DRAG STRUTS, COLLECTORS, CHORDS, AND FOUNDATION ELEMENTS) OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B & C		CONTINUOUS		PERIODIC	SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENT OF AISC 341, EXCLUDING SYSTEMS "NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE", WITH RESPONSE MODIFICATION COEF., R, OF 3 OR LESS.
SEISMIC FORCE RESISTING SYSTEMS AND ELEMENTS (DRAG STRUTS, COLLECTORS, CHORDS, AND FOUNDATION ELEMENTS) OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F		CONTINUOUS		PERIODIC	SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENT OF AISC 341.
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10)					
VERIFY WELDING PROCEDURES	X	CONTINUOUS		PERIODIC	
PROVIDE MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES.	X				
MATERIAL IDENTIFICATION		CONTINUOUS	X	PERIODIC	VERIFY TYPE AND GRADE OF MATERIAL
WELDER IDENTIFICATION		CONTINUOUS	X	PERIODIC	VERIFY THERE IS A SYSTEM IN PLACE TO IDENTIFY THE ELDER WHO HAS WELDED A JOINT OR MEMBER
FIT-UP GROOVE WELDS		CONTINUOUS	X	PERIODIC	VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING AND BACKING
ACCESS HOLES		CONTINUOUS	X	PERIODIC	VERIFY CONFIGURATION AND FINISH
FIT-UP FILLET WELDS		CONTINUOUS	X	PERIODIC	VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, TACK WELD QUALITY AND LOCATION
DURING WELDING (TABLE N5.4-2, AISC 360-10)					
USE OF QUALIFIED INSPECTORS		CONTINUOUS	X	PERIODIC	VERIFY THAT ELDERS ARE APPROPRIATELY QUALIFIED
CONTROL AND HANDLING OF WELDING CONSUMABLES		CONTINUOUS	X	PERIODIC	VERIFY PACKAGING AND EXPOSURE CONTROL
CRACKED TACK WELDS		CONTINUOUS	X	PERIODIC	VERIFY WELDING IS NOT OVER A CRACKED TACK WELD
ENVIRONMENTAL CONDITIONS		CONTINUOUS	X	PERIODIC	VERIFY WIND SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE
WPS FOLLOWED		CONTINUOUS	X	PERIODIC	VERIFY ITEMS SUCH AS WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION
WELDING TECHNIQUES		CONTINUOUS	X	PERIODIC	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATION, AND QUALITY OF EACH PASS
AFTER WELDING (TABLE N5.4-3, AISC 360-10)					
WELDS CLEANED		CONTINUOUS	X	PERIODIC	VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED
SIZE, LENGTH AND LOCATION OF WELDS	X	CONTINUOUS		PERIODIC	
WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	CONTINUOUS		PERIODIC	
ARC STRIKES	X	CONTINUOUS		PERIODIC	
K-AREA	X	CONTINUOUS		PERIODIC	
BACKING & WELDING TABS REMOVED	X	CONTINUOUS		PERIODIC	
REPAIR ACTIVITIES	X	CONTINUOUS		PERIODIC	
DOCUMENT ACCEPTANCE/REJECTION OF WELD	X	CONTINUOUS		PERIODIC	
NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-10)					
CJP WELDS (RISK CAT. II)		CONTINUOUS	X	PERIODIC	ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN MATERIALS 5/16-INCH THICK OR GREATER. TESTING RATE MUST BE INCREASED IF >5% OF WELDS HAVE UNACCEPTABLE DEFECTS.
ACCESS HOLES (FLANGE > 2")	X	CONTINUOUS		PERIODIC	
WELDED JOINTS SUBJECT TO FATIGUE	X	CONTINUOUS		PERIODIC	
PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-10)					
MANUFACTURER'S CERTIFICATIONS	X	CONTINUOUS		PERIODIC	CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS
FASTENERS MARKINGS		CONTINUOUS	X	PERIODIC	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL		CONTINUOUS	X	PERIODIC	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)
PROPER BOLTING PROCEDURE		CONTINUOUS	X	PERIODIC	PROPER BOLTING PROCEDURE SELECTED FROM THE JOINT DETAIL
CONNECTING ELEMENTS		CONTINUOUS	X	PERIODIC	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS
PRE-INSTALLATION VERIFICATION TESTING		CONTINUOUS	X	PERIODIC	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED
PROPER STORAGE		CONTINUOUS	X	PERIODIC	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS
DURING BOLTING (TABLE N5.6-2, AISC 360-10)					
FASTENER ASSEMBLIES		CONTINUOUS	X	PERIODIC	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED
SNUG-TIGHT CONDITION		CONTINUOUS	X	PERIODIC	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATION		CONTINUOUS	X	PERIODIC	
FASTENERS PRETENSIONED		CONTINUOUS	X	PERIODIC	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES
AFTER BOLTING (TABLE N5.6-3, AISC 360-10)					
DOCUMENTATION	X	CONTINUOUS		PERIODIC	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS
COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT (TABLE N6.1, AISC 360-10)					
STEEL DECK	X	CONTINUOUS		PERIODIC	PLACEMENT AND INSTALLATION OF STEEL DECK
STEEL HEADED STUD ANCHORS	X	CONTINUOUS		PERIODIC	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS
DOCUMENTATION	X	CONTINUOUS		PERIODIC	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS
OTHER STEEL INSPECTIONS (TABLE N5.7, AISC 360-10; TABLES J8-1 AND J10-1, AISC 341-10)					
STRUCTURAL STEEL DETAILS		CONTINUOUS	X	PERIODIC	ALL FABRICATED STEEL AND THEIR CONNECTIONS SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN IN THE APPROVED PLANS
ANCHOR RODS/EMBEDS SUPPORTING STRUCTURAL STEEL		CONTINUOUS	X	PERIODIC	SHALL BE ON THE PREMISES DURING THE PLACEMENT OF ANCHOR RODS/EMBEDMENTS. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ELEMENT AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE
REDUCED BEAM SECTION (RBS)		CONTINUOUS	X	PERIODIC	VERIFY CONTOUR AND FINISH AS WELL AS DIMENSIONAL TOLERANCES (SEE TABLE J8-1 OF AISC 341)
PROTECTED ZONES			X		VERIFY THAT NO HOLES OR UNAPPROVED ATTACHMENTS ARE MADE WITHIN THE PROTECTED ZONE (SEE TABLE J8-1 OF AISC 341)
CANTILEVERED RAIL POSTS			X	PERIODIC	STRUCTURAL STEEL ELEMENTS, WELDING INSPECTION OF WELDS AT THE BASE

COLD-FORMED STEEL DECK (IBC 1705.2.2)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS COMPONENTS.		CONTINUOUS	X	PERIODIC	ROOF DECK ATTACHMENT (WELDS AND FASTENERS).
SPECIAL INSPECTION TABLE APPENDIX 1 QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK					SDI QA/QC-2017 STANDARDS FOR QUALITY CONTROL AND
TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT					
		QC		QA	
A		PERFORM		PERFORM	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES AND BASE MATERIAL THICKNESS. BASE METAL THICKNESS GUIDELINES 1. ALLOWABLE MIN. BASE METAL THICKNESS IS 95% OF THE DESIGN THICKNESS, PER AISI S-100, SECTION B7.1. LESSER THICKNESSES ARE PERMITTED AT BENDS AND CORNERS. DESIGN THICKNESS IS AS SPECIFIED BY THE MANUFACTURER. 2. PRIMER PAINT THICKNESS IS USUALLY ON THE ORDER OF 0.30 TO 0.40 MILS PER SIDE (0.0003 TO 0.0004 INCHES) 3. GALVANIZING THICKNESSES (MEASURED AS THE TOTAL OF BOTH SIDES OF THE SHEET) ARE TYPICALLY AS FOLLOWS: G40 - 0.50 MILS (0.0005 INCHES); G60 - 0.90 MILS (0.0009 INCHES); G90 - 1.40 MILS (0.0014 INCHES)
B		PERFORM		PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES
TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT					
A		PERFORM		PERFORM	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS
B		N/A		PERFORM	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS WHAT COMPLY WITH THE CONSTRUCTION DOCUMENTS
C		PERFORM		PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF THE INSTALLATION OF DECK AND DECK ACCESSORIES
TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING					
A		OBSERVE		OBSERVE	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE
B		OBSERVE		OBSERVE	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE
C		OBSERVE		OBSERVE	MATERIAL IDENTIFICATION (TYPE/GRADE)
D		OBSERVE		OBSERVE	CHECK WELDING EQUIPMENT
TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING					
A		OBSERVE		OBSERVE	USE OF QUALIFIED WELDERS
B		OBSERVE		OBSERVE	CONTROL AND HANDLING OF WELDING CONSUMABLES
C		OBSERVE		OBSERVE	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)
D		OBSERVE		OBSERVE	WPS FOLLOWED
TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING					
A		PERFORM		PERFORM	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS
B		PERFORM		PERFORM	WELDS MEET VISUAL ACCEPTANCE CRITERIA
C		PERFORM		PERFORM	VERIFY REPAIR ACTIVITIES
D		PERFORM		PERFORM	DOOCUMENT ACCEPTANCE OR REJECTION OF WELDS
TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING					
A		OBSERVE		OBSERVE	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS
B		OBSERVE		OBSERVE	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION
C		OBSERVE		OBSERVE	PROPER STORAGE FOR MECHANICAL FASTENERS
TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING					
A		OBSERVE		OBSERVE	FASTENERS ARE POSITIONED AS REQUIRED
B		OBSERVE		OBSERVE	FASTENERS ARE INSTALLED IN ACCORDANCE WIT HMANUFACTUER'S INSTRUCTIONS
TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING					
A		PERFORM		PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS
B		PERFORM		PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS
C		PERFORM		PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS
D		PERFORM		PERFORM	VERIFY REPAIR ACTIVITIES
E		PERFORM		PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS

NOTES: FOR ADDITIONAL REQUIREMENTS, REFER TO QA/QC-2018 STANDARD.

SDI DEFINITIONS	
QA	QUALITY ASSURANCE - INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION AND OR PLACEMENT OF COMPONENTS AND CONNECTIONS, PERFORMED BY AN AGENCY REQUIRING SPECIAL EXPERTISE TO CONFIRM COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. QUALITY ASSURANCE SHALL BE PROVIDED BY AUTHORITY HAVING JURISDICTION, APPLICABLE BUILDING CODE, OWNER & OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION.
QC	QUALITY CONTROL - CONTROLS AND INSPECTIONS IMPLEMENTED BY THE INSTALLER TO CONFIRM THAT THE MATERAILS PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, INSTALLATION DRAWINGS, SHOP DRAWINGS, DESIGN DOCUMENTS AND REFERENCED STANDARDS.
OBSERVE	I...
PERFORM	I...
DOCUMENT	INPECTOR SHALL PREPARE REPORTS OR OTHER APPROPRIATE WRITTEN DOCUMENTATION INDICATING THAT THE WORK HAS OR HAS NOT BEEN PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS
FREQUENCY OF OBSERVATIONS	SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.
NON-COMPLIANCE	WORK OBSERVED DETERMINED THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF THE NON-CONFORMANCE

OPEN-WEB STEEL JOISTS AND JOIST GIRDER (IBC 1705.2.3)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GRIDER					
END CONNECTION - WELDING OR BOLTED		CONTINUOUS	X	PERIODIC	SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1
BRIDGING - HORIZONTAL OR DIAGONAL					
STANDARD BRIDGING		CONTINUOUS	X	PERIODIC	SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1		CONTINUOUS	X	PERIODIC	

LIGHT GAGE FRAME (IBC 1705.2.4, 1705.11.2, 1705.11.3, 1705.12.3 & 1705.12.9)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
STUD WALL, RAFTER AND JOIST CONSTRUCTION AT CANOPIES		CONTINUOUS	X	PERIODIC	VERIFY THAT PROPER SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING HAS OCCURRED AND INSTALLATION CONFORMS TO APPROVED SHOP DRAWINGS.
TRUSSES SPANNING GREATER THAN AND EQUAL TO 60-FEET		CONTINUOUS	X	PERIODIC	VERIFY THAT TEMPORARY AND PERMANENT TRUSS RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE. PERFORMED BY CODE INSPECTION FIRM.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F. - WELDING		CONTINUOUS	X	PERIODIC	WELDING OPERATIONS OF THE ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.- FASTENERS		CONTINUOUS	X	PERIODIC	APPLICABLE WHEN FASTENERS ARE SPACED LESS THAN 4" O.C. FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS. PERFORMED BY CODE INSPECTION FIRM.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS COMPONENTS.		CONTINUOUS	X	PERIODIC	WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRGAMS AND FRAMING.
COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES		CONTINUOUS	X	PERIODIC	INSTALLATION OF COLD-FORMED STEEL BOLTED MOMENT FRAMES IN THE SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F.

CAST-IN-PLACE CONCRETE (IBC 1705.3, 1705.3.1, 1705.3.2 & 1705.12.1)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
INSPECT REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		CONTINUOUS	X	PERIODIC	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGER AND OFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORT. REFERENCED STANDARD: STEEL REINFORCEMENT PROPERTIES, DURABILITY AND EMBEDMENTS (ACI 318 CH. 20), MINIMUM SPACING OF REINFORCEMENT (ACI 318 SEC. 25.2), STANDARD HOOKS, SEISMIC HOOKS, CROSSTIES, AND MINIMUM INSIDE BEND DIAMETERS (ACI 318 SEC. 25.3), CONCRETE PRODUCTION (ACI 318 SEC. 26.5.1), CONCRETE PLACEMENT AND CONSOLIDATION (ACI 318 SEC. 26.5.2) AND CURING CONCRETE (318 SEC. 26.5.3) AND SHOTECRETE REINFORCEMENT (IBC 1908.4).
REINFORCING BAR WELDING	X	CONTINUOUS		PERIODIC	FOR WELDING OF REINFORCING STEEL USED IN INTERMEDIATE OR SPECIAL CONCRETE MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OR SHEAR REINFORCEMENT. IBC 1705.3.1: WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND OF AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION.
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		CONTINUOUS	X	PERIODIC	REFERENCED STANDARDS: CONSTRUCTION DOCUMENTS AND INSPECTION WELDING (ACI 318 SEC. 26.6.4) & AWS D1.4
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND		CONTINUOUS	X	PERIODIC	REFERENCED STANDARDS: CONSTRUCTION DOCUMENTS AND INSPECTION WELDING (ACI 318 SEC. 26.6.4) & AWS D1.4
C. INSPECT ALL OTHER WELDS.	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: CONSTRUCTION DOCUMENTS AND INSPECTION WELDING (ACI 318 SEC. 26.6.4) & AWS D1.4
MATERIAL TESTS					IBC 1705.3.2: IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN CHAPTER 19 AND 20 OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN ACI 318, CHAPTER 19 (CONCRETE: DESIGN AND DURABILITY REQUIREMENTS) AND ACI 318, 20 (STEEL REINFORCEMENT PROPERTIES, DURABILILTY, AND EMBEDMENTS).
INSPECT ANCHOR CAST-IN (BOLTS & EMBEDS) IN CONCRETE	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: INSTALLATION AND INSPECTION OF ANCHORS - INSTALLATION OF ANCHORS REQUIREMENTS (ACI 318, SEC. 17.8.2)
POST-INSTALLED DOWELS	X	CONTINUOUS		PERIODIC	ALL POST-INSTALLED DOWELS SHALL BE SPECIALLY INSPECTED AS REQUIRED BY THE APPROVED ICC-ES REPORT.
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS					SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE ACI 318 SEC. 17.8.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENATIONS TO RESIST SUSTAINED TENSION LOADS	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: INSTALLATION AND INSPECTION OF ANCHORS - INSTALLATION OF ADHESIVE ANCHORS REQUIREMENTS (ACI 318 SEC. 17.8.2.2 AND SEC. 17.8.2.4). INSTALLER SHALL BE CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. THE CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THE SPECIAL INSPECTOR SHALL FURISH A REPORT TO THE EOR AND BUILDING OFFICIAL THAT THE WORK COVERED HAS BEEN PERFORMED, MATERAILS USED AND INSTALLATION PROCEDURES CONFORM WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE MANUF.'S PRINTED INSTALLATION INSTRUCTIONS.
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS THAT ARE NOT INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENATIONS TO RESIST SUSTAINED TENSION LOADS		CONTINUOUS	X	PERIODIC	REFERENCED STANDARDS: INSTALLATION AND INSPECTION OF ANCHORS - INSTALLATION OF ANCHORS REQUIREMENTS (ACI 318 SEC. 17.8.2)
VERIFY USE OF REQUIRED DESIGN MIX.		CONTINUOUS	X	PERIODIC	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS; REFERENCED STANDARDS: ACI 318 CH. 19 (CONCRETE: DESIGN AND DURABILITY REQUIREMENTS), ACI 318 SEC. 26.4.3 (PROPORTIONING OF CONCRETE MIXTURES), AND ACI 318 SEC. 26.4.4 (DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS); IBC 1904.1 (DURABILITY REQUIREMENT OF STRUCTURAL CONCRETE), IBC 1904.2 (DURABILITY REQUIREMENT OF NONSTRUCTURAL CONCRETE), IBC 1908.2 (SHOTCRETE PROPORTIONS AND MATERAILS) AND IBC 1908.3 (SHOTCRETE REINFORCEMENT)
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: ASTM C 172 (STANDARD PRACTICE OF SAMPLING FRESHLY MIXED CONCRETE), ASTM C 31 (STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE FIELD), ACI 318 SEC. 26.5.4 (CONCRETING IN COLD WEATHER), ACI 318 SEC. 26.5.5 (CONCRETING IN HOT WEATHER) AND ACI 318 SEC. 26.12 (CONCRETE EVALUATION AND ACCEPTANCE); IBC 1908.10 (SHOTCRETE STRENGTH TESTS)
CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT, AND TEMPERATURE	X	CONTINUOUS		PERIODIC	
INSPECT CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: ACI 318 SEC. 26.4 (CONCRETE MATERAILS AND MIXTURE REQUIREMENT), IBC 1908.6 (SHOTCRETE REBOUND), IBC 1908.7 (SHOTCRETE JOINTS) AND IBC 1908.8 (SHOTCRETE DAMAGE)
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		CONTINUOUS	X	PERIODIC	VERIFY THAT THE AMBIENT TEMPERATURE FOR CONCRETE IS KEPT AT > 50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HIGH-EARLY-STRENGTH CONCRETE SHALL BE KEPT AT > 50°F FOR AT LEAST 3 DAYS. ACCELERATED CURING METHODS MAY BE USED (SEE ACI 318). THE AMBIENT TEMPERATURE FOR SHOTCRETE SHALL BE > 40°F FOR THE SAME PERIOD OF TIME AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AFTER SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED. REFERENCED STANDARDS: ACI 318 SEC. 26.5.4 (CONCRETING IN COLD WEATHER), ACI 318 SEC. 26.5.5 (CONCRETING IN HOT WEATHER), ACI SEC. 26.5.6 (CONSTRUCTION, CONTRACTION, AND ISOLATION JOINT; IBC 1908.9 (SHOTCRETE CURING)
INSPECT PRE-STRESSED CONCRETE FOR					
A. APPLICATION OF PRESTRESSING FORCES; AND	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: ACI 318 SEC. 26.10.2 (ADDITIONAL REQUIREMENTS FOR PRESTRESSED CONCRETE - COMPLIANCE REQUIREMENT)
B. GROUTING OF BONDED PRESTRESSING TENDONS	X	CONTINUOUS		PERIODIC	REFERENCED STANDARDS: ACI 318 SEC. 26.10.2 (ADDITIONAL REQUIREMENTS FOR PRESTRESSED CONCRETE - COMPLIANCE REQUIREMENT)
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		CONTINUOUS	X	PERIODIC	VERIFY THAT ALL PRECAST ELEMENTS ARE LIFTED, ASSEMBLED AND BRACED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. REFERENCED STANDARDS: ACI 318, SEC. 26.9 (ADDITIONAL REQUIREMENTS FOR PRECAST CONCRETE)
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLAB.		CONTINUOUS	X	PERIODIC	REFERENCED STANDARDS: ACI 318, CH. 26.10.2 (ADDITIONAL REQUIREMENTS FOR PRESTRESSED CONCRETE - COMPLIANCE REQUIREMENT)
INSPECT FORMWORK FOR SHAPE, LOCATIONS AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		CONTINUOUS	X	PERIODIC	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS. REFERENCED STANDARDS: ACI 318, SEC. 26.10.1(b) (ADDITIONAL REQUIREMENTS FOR PRESTRESSED CONCRETE - COMPLIANCE REQUIREMENT - STRESSING SEQUENCE OF TENDONS)
REINFORCEMENT IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS		CONTINUOUS	X	PERIODIC	VERIFY THAT ASTM A 615 REINFORCING STEEL USED IN THESE AREAS COMPLIES WITH ACI 318 BY MEANS OF CERTIFIED MILL TEST REPORTS. IF THIS REINFORCING STEEL IS TO BE WELDED CHEMICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318

NOTES:
1. WHERE APPLICABLE, REFER TO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
2. AMERICAN CONCRETE INSTITUE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318-14)

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STATE OF MISSOURI
DAVID F. IMPSON
NUMBER
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PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

- Issued For Permit -

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
SPECIAL INSPECTION

SHEET NUMBER
S-903

4 | 3 | 2 | 1

MASONRY CONSTRUCTION (IBC 1705.4 & 1705.4.2)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.					
MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY I, II, OR III STRUCTURES					
PRIOR TO CONSTRUCTION					VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.
MINIMUM TESTS					VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH GROUT MIX SPECIFICATION, COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C 1019, AND SLUMP FLOW AND VISUAL STABILITY INDEX AS DETERMINED BY ASTM C 1611 (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.5 B.1.b.3) FOR SELF-CONSOLIDATING GROUT. VERIFY f'm AND f 'AAC IN ACCORDANCE WITH THE COMPRESSIVE STRENGTH DETERMINATION SPECIFICATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B) PRIOR TO CONSTRUCTION.
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		CONTINUOUS	X	PERIODIC	OBTAIN WRITTEN ACCEPTANCE OF SUBMITTALS PRIOR TO THE USE OF THE MATERIALS AND METHODS (TMS 602/ACI 530.1/ ASCE 6,... MORTAR (EXCLUDING THIN-BED MORTAR FOR AAC): MIX DESIGNS INDICATING TYPE AND PROPORTIONS OF INGREDIENTS IN COMPLIANCE WITH PROPORTION SPECIFICATION OF ASTM C270 AND MORTAR TEST PERFORMED IN ACCORDANCE WITH THE PROPERTY SPECIFICATION OF ASTM C270 GROUT: MIX DESIGNS INDICATING TYPE AND PROPORTIONS OF THE INGREDIENTS ACCORDING TO THE PROPORTION REQUIREMENTS OF ASTM C476 AND COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C1019, AND SLUMP FLOW AND VISUAL STABILITY INDEX AS DETERMINED BY ASTM C1611. MATERIAL CERTIFICATES: MATERIAL CERTIFICATES FOR REINFORCEMENT, ANCHORS, TIES, FASTENERS, AND METAL ACCESSORIES, MASONRY UNITS, MORTAR, THIN-BED MORTAR FOR AAC, GROUT MATERIALS, AND SELF-CONSOLIDATING GROUT. CONSTRUCTION PROCEDURES: FOR COLD AND HOT WEATHER CONSTRUCTION PROCEDURES.
AS MASONRY CONSTRUCTION BEGINS:					
PROPORTIONS OF SITE-PREPARED MORTAR		CONTINUOUS	X	PERIODIC	PROVIDE MORTAR OF THE TYPE AND COLOR SPECIFIED AND CONFORMING WITH ASTM C270 (TMS 602/ACI 530.1/ ASCE 6, ARTICL... MORTAR MIXTURE (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.6 A): MIX CEMENTITIOUS MATERIALS AND AGGREGATES BETWEEN 3 AND 5 MINUTES IN A MECHANICAL BATCH MIXER WITH SUFFICIENT WATER TO PRODUCE A WORKABLE CONSISTENCY. MAINTAIN WORKABILITY OF MORTAR BY REMIXING OR RETEMPERING. DISCARD MORTAR WHEN IT HAS BEGUN TO STIFFEN OR IS NOT USED WITHIN 2½ HOURS AFTER INITIAL MIXING. NO ADMIXTURES CONTAINING > 0.2% CHLORIDE-IONS SHALL BE USED. DO NOT ADD MINERAL OXIDE OR CARBON BLACK PIGMENT WITHOUT THE APPROVAL OF THE...
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		CONTINUOUS	X	PERIODIC	PLACING MORTAR AND UNITS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B): UNLESS SPECIFIED OTHERWISE CONSTRUCT 3/8" BED AND HEAD JOINTS, EXCEPT AT FOUNDATION. BED JOINT AT FOUNDATION SHALL BE >1/4" AND ≤ 3/4". FILL HOLES NOT SPECIFIED IN EXPOSED AND BELOW GRADE MASONRY WITH MORTAR. TOOL JOINTS WITH A ROUND JOINTER WHEN MORTAR IS THUMBPRINT HARD. REMOVE MASONRY PROTRUSIONS EXTENDING ≥ 1/2" INTO CELLS TO BE GROUTED. SOLIDLY FILL COLLAR JOINTS < 3/4" WITH MORTAR DURIN... FOR MORTAR PLACEMENT ON HOLLOW UNITS, SOLID UNITS AND OPEN-ENDED UNITS WITH BEVELED ENDS, REFER TO TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B, UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS.
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		CONTINUOUS	X	PERIODIC	CONFIRM THAT ANCHORAGES AND COUPLERS ARE CAPABLE OF DEVELOPING 95% OF THE SPECIFIED BREAKING STRENGTH OF THE PRESTRESSING TENDONS. REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.4 B, 2.4 H
LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES		CONTINUOUS	X	PERIODIC	VERIFY COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS. REQUIREMENTS ENSURES THAT GALVANIC ACTION IS INHIBITED, LOCATION OF BARS PER DESIGN, CLEARANCE FOR GROUT/MORTAR FOR PROPER LOAD TRANSFER, PREVENT CORRISION, AND COMPATIBLE LATERAL DEFLECTION OF WYTHE IS ACHIEVED. DO NOT PLACE DISSIMILAR METALS IN CONTACT WITH EACH OTHER. REINFORCEMENTS, JOINT REINFORCEMENTS, WALL TIES, VENEER ANCHORS, AND ANCHOR INSTALLATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.4) PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - SITE TOLERANCES (TMS 602/ACI 530.1/ ASCE 6,...
PRESTRESSING TECHNIQUE		CONTINUOUS	X	PERIODIC	THE PRE-STRESSING FORCE AT EACH TENDON SHALL BE VERIFIED BY TWO METHODS: (1) MEASURING THE STEEL ELONGATION AND (2) THE OBSERVED JACKING FORCE APPLIED TO THE TENDON. THE MEASURED ELONGATION SHOULD BE COMPARED TO THE LOAD-ELONGATION CURVES FOR THE PRE-STRESSING STEEL USED AND NOT MORE THAN A 5% DIFFERENCE SHOULD BE FOUND WHEN COMPARING TO THE ACTUAL FORCE APPLIED. A 7% DIFFERENCE IS ALLOWED FOR POST-TENSIONED TENDONS. WHEN TOTAL LOSS OF PRESTRESS DUE TO UNREPLACED BROKEN PRESTRESSING TENDONS EXCEEDS 2% OF TOTAL PRESTRESS, NOTIFY THE... PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.6 B)
PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	CONTINUOUS (REQUIRED FOR THE FIRST 5000 SF. OF A...	X	PERIODIC (REQUIRED FOR THE FIRST 5000 SF. OF AAC MASONRY)	MORTAR MATERAIL FOR AAC MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.1 C)
PRIOR TO GROUTING:					
GROUT SPACE IS CLEAN		CONTINUOUS	X	PERIODIC	VERIFY THAT GROUT SPACE IS FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATE, AND MATERIAL DELETERIOUS TO... PREPARATION - CLEANOUT (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.2 F) PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN THE GROUT POUR HEIGHT EXCEEDS 5 FT 4 IN. CLEANOUT ARE REQUIRED TO ALLOW THE GROUT SPACE TO BE ADEQUATELY CLEANED PRIOR TO GROUTING AND BE USED TO VERIFY REINFORCEMENT PLACEMENT AND TYING.
GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		CONTINUOUS	X	PERIODIC	REINFORCEMENT, PRESTRESSING TENDONS, AND METAL ACCESSORIES (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.4) TYPE, MATERIAL GRADES, YIELD STRENGTHS, AND COATING/FINISHES REINFORCEMENTS, JOINT REINFORCEMENTS, WALL TIES, VENEER ANCHORS, AND ANCHOR INSTALLATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.4) DETAILS OF REINFORCEMENT AND METAL ACCESSORIES (TMS 402/ACI 530/ ASCE 5, SEC. 6.1) FOR BAR EMBEDMENT, REINFORCEMENT SIZES, PLACEMENT OF REINFORCEMENT, PROTECTION OF REINFORCEMENT AND METAL ACCESSORIES, AND...
PLACEMENT OF REINFORCEMENT AN CONNECTORS, AND PRESTRESSING TENDONS...		CONTINUOUS	X	PERIODIC	VERIFY THAT REINFORCEMENT, JOINT REINFORCEMENT, WALL TIES, ANCHOR BOLTS AND VENEER ANCHORS ARE INSTALLED PREPARATION OF REINFORCEMENT (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.2 E). PLACE REINFORCEMENT AND TIES IN GROUT SPACES PRIOR TO GROUTING. LOSS OF BOND AND MISALIGNMENT OF THE REINFORCEMENT CAN OCCUR IF IT IS NOT PLACED PRIOR TO GROUTING. REINFORCEMENTS, JOINT REINFORCEMENTS, WALL TIES, VENEER ANCHORS, AND ANCHOR INSTALLATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.4) PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - SITE TOLERANCES (TMS 602/ACI 530.1/ ASCE 6,... DETAILS OF REINFORCEMENT AND METAL ACCESSORIES (TMS 402/ACI 530/ ASCE 5, SEC. 6.1) FOR BAR EMBEDMENT, REINFORCEMENT SIZES, PLACEMENT OF REINFORCEMENT, PROTECTION OF REINFORCEMENT AND METAL ACCESSORIES, AND BAR HOOKS/BENDS). ANCHOR BOLT PLACEMENT (TMS 402/ACI 530/ ASCE 5, SEC. 6.2.1), MINIMUM PERMISSIBLE EFFECTIVE EMBEDMENT LENGTH (TMS 402/ACI 530/ ASCE 5, SEC.6.2.6) AND ANCHOR BOLT EDGE DISTANCE (TMS 402/ACI 530/ ASCE 5, SEC.6.2.7)
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		CONTINUOUS	X	PERIODIC	VERIFY THAT GROUT IS PROPORTIONED PER ASTM C476 AND HAS A SLUMP BETWEEN 8-11 INCHES. SELF-CONSOLIDATED GROUT SHALL NOT BE PROPORTIONED ONSITE. MIXING GROUT (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.6 B) GROUT FOR PRESTRESSING TENDONS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.4 G.1.b)
CONSTRUCTION OF MORTAR JOINTS		CONTINUOUS		PERIODIC	MASONRY ERECTION, PLACING MORTAR AND UNITS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3B)
VERIFY DURING CONSTRUCTION:					
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		CONTINUOUS	X	PERIODIC	VERIFY THAT STRUCTURAL ELEMENTS ARE PLACED IN LOCATIONS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS AND TO THE TOLERANCES. MASONRY ERECTION, SITE TOLERANCES (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 F)
TYPE, SIZE AND LOCATION OF ANCHORS AND OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		CONTINUOUS	X	PERIODIC	VERIFY THAT STRUCTURAL ELEMENTS ARE PLACED IN LOCATIONS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS. HEADED OR BENT BAR ANCHOR BOLTS SHALL BE EMBEDDED IN GROUT. CONTRACT DOCUMENTS AND CALCULATIONS CODE-REQUIRED DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, AND OTHER CONSTRUCTION, INCLUDING THE TYPE, SIZE, AND LOCATION CONNECTORS (TMS 402/ACI 530/ ASCE 5, SEC. 1.2.1(e)), CORROSION RESISTANCE REQUIREMENT FOR WALL TIES, SHEET-METAL ANCHORS, STEELPLATES, AND BARS (TMS 402/ACI 530/ ASCE 5, SEC. 6.1.4.3) AND ANCHOR BOLT PLACEMENT REQUIREMENTS (TMS 402/ACI 530/ ASCE 5, SEC. 6.2.1)
WELDING OF REINFORCING BARS	X	CONTINUOUS		PERIODIC	WELDED SPLICES SHALL HAVE THE BARS BUTTED AND WELDED TO DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. WELDING SHALL CONFORM TO AWS D1.4, REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A706 OR CONTRACTOR TO SUBMIT BAR SHOWING ITS CHEMICAL ANALYSIS AND CARBON EQUIVALENT PER AWS D1.4, EXISTING BARS SHALL BE A706 OR BE TESTED FOR WELDABILITY (ALLOWABLE DESIGN WELDED SPLICE (TMS 402/ACI 530/ ASCE 5, SEC. 8.1.6.7.2, STRENGTH DESIGN WELDED SPLICE TMS 402/ACI 530/ ASCE 5, SEC. 9.3.3.4(c)), AAC MASONRY WELDED SPLICE (TMS 402/ACI 530/ ASCE 5, SEC. 11.3.3.4(b))
PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG. F)		CONTINUOUS	X	PERIODIC	WHEN THE AMBIENT AIR TEMPERATURE IS <40°F. WHEN THE AMBIENT AIR TEMPERATURE IS >100°F, OR >90°F WITH A WIND VELOCITY >8MPH. COLD WEATHER CONSTRUCTION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.8 C) AND HOT WEATHER CONSTRUCTION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE1.8 D)
APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	CONTINUOUS		PERIODIC	THE PRE-STRESSING FORCE AT EACH TENDON SHALL BE VERIFIED BY TWO METHODS: (1) MEASURING THE STEEL ELONGATION AND (2) THE OBSERVED JACKING FORCE APPLIED TO THE TENDON. THE MEASURED ELONGATION SHOULD BE COMPARED TO THE LOAD-ELONGATION CURVES FOR THE PRE-STRESSING STEEL USED AND NOT MORE THAN A 5% DIFFERENCE SHOULD BE FOUND WHEN COMPARING TO THE ACTUAL FORCE APPLIED. A 7% DIFFERENCE IS ALLOWED FOR POST-TENSIONED TENDONS. WHEN TOTAL LOSS OF PRESTRESS DUE TO UNREPLACED BROKEN PRESTRESSING TENDONS EXCEEDS 2% OF TOTAL PRESTRESS, NOTIFY THE... PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.6 B)
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	CONTINUOUS		PERIODIC	GROUT PLACEMENT - ALLOWABLE TIME FOR GROUT PLACEMENT, READY-MIXED GROUT, CONFINEMENT, GROUT POUR HEIGHT, GROUT LIFT HEIGHT, CONSOLIDATION, ETC. (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.5) AND PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - GROUTING BONDED TENDONS FOR MIXING TECHINQUES AND TEMPERATURE REQUIREMENTS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.6 C)
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	CONTINUOUS (REQUIRED FOR THE FIRST 5000 SF. OF AAC MASONRY)	X	PERIODIC (REQUIRED FOR THE FIRST 5000 SF. OF AAC MASONRY)	MASONRY ERECTION FOR AAC MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B.9) AND SITE TOLERANCES MORTAR JOINT THICKNESS REQUIREMENTS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 F.1b)
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS			X	PERIODIC	COMPRESSIVE STRENGTH DETERMINATION - UNIT STRENGTH METHOD FOR GROUTED CLAY MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B.2.a.3) UNIT STRENGTH METHOD FOR GROUTED CONCRETE MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B.2.b.3), UNIT STRENGTH METHOD FOR GROUTED AAC MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE1.4 B.2c.3), PRISM TEST METHOD (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B.3), AND TESTING PRISMS FROM CONSTRUCTED MASONRY (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B.4)

MASONRY CONSTRUCTION (IBC 1705.4 & 1705.4.2)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.					
MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY IV STRUCTURES					
PRIOR TO CONSTRUCTION					VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.
MINIMUM TESTS					VERIFY PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH GROUT MIX SPECIFICATION, COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C 1019, AND SLUMP FLOW AND VISUAL STABILITY INDEX AS DETERMINED BY ASTM C 1611 (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.5 B.1.b.3) FOR SELF-CONSOLIDATING GROUT. VERIFY f'm AND f 'AAC IN ACCORDANCE WITH THE COMPRESSIVE STRENGTH DETERMINATION SPECIFICATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B) PRIOR TO CONSTRUCTION AND FOR EVERY 5000 SQ. FT....
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		CONTINUOUS	X	PERIODIC	OBTAIN WRITTEN ACCEPTANCE OF SUBMITTALS PRIOR TO THE USE OF THE MATERIALS AND METHODS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.5) MORTAR (EXCLUDING THIN-BED MORTAR FOR AAC): MIX DESIGNS INDICATING TYPE AND PROPORTIONS OF INGREDIENTS IN COMPLIANCE WITH PROPORTION SPECIFICATION OF ASTM C270 AND MORTAR TEST PERFORMED IN ACCORDANCE WITH THE PROPERTY... GROUT: MIX DESIGNS INDICATING TYPE AND PROPORTIONS OF THE INGREDIENTS ACCORDING TO THE PROPORTION REQUIREMENTS OF ASTM C476 AND COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C1019, AND SLUMP FLOW AND... MATERIAL CERTIFICATES: MATERIAL CERTIFICATES FOR REINFORCEMENT, ANCHORS, TIES, FASTENERS, AND METAL ACCESSORIES, MASONRY UNITS, MORTAR, THIN-BED MORTAR FOR AAC, GROUT MATERIALS, AND... CONSTRUCTION PROCEDURES: FOR COLD AND HOT WEATHER CONSTRUCTION PROCEDURES.
VERIFY THE FOLLOWING FOR COMPLIANCE					
PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		CONTINUOUS	X	PERIODIC	ENSURE THAT MORTAR THAT BEGINS TO STIFFEN OR IS NOT USED WITHIN 2½ HOURS IS DISCARDED. NO ADMIXTURES CONTAINING > 0.2% CHLORIDES SHALL BE... REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.1, 2.6 A, 2.6 C, 2.4 G 1.b
GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND...		CONTINUOUS	X	PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.4, 3.4 REFERENCE FOR CRITERIA: TMS 402/ACI 530/ ASCE 5, SE...
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		CONTINUOUS	X	PERIODIC	PLACING MORTAR AND UNITS (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B): UNLESS SPECIFIED OTHERWISE CONSTRUCT 3/8" BED AND HEAD JOINTS, EXCEPT AT FOUNDATION. BED JOINT AT FOUNDATION SHALL BE >1/4" AND ≤ 3/4". FILL HOLES NOT SPECIFIED IN EXPOSED AND BELOW GRADE MASONRY WITH MORTAR. TOOL JOINTS WITH A ROUND JOINTER WHEN MORTAR IS THUMBPRINT HARD. REMOVE MASONRY PROTRUSIONS EXTENDING ≥ 1/2" INTO CELLS TO BE GROUTED. SOLIDLY FILL COLLAR... FOR MORTAR PLACEMENT ON HOLLOW UNITS, SOLID UNITS AND OPEN-ENDED UNITS WITH BEVELED ENDS, REFER TO TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B, UNLESS OTHERWISE NOTED ON CONSTRUCTION...
PLACEMENT OF REINFORCEMENT AN CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	X	CONTINUOUS		PERIODIC	VERIFY COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS. REQUIREMENTS ENSURES THAT GALVANIC ACTION IS INHIBITED, LOCATION OF BARS PER DESIGN, CLEARANCE FOR GROUT/MORTAR FOR PROPER LOAD TRANSFER, PREVENT CORRISION, AND COMPATIBLE LATERAL DEFLECTION OF WYTHE IS ACHIEVED. DO NOT PLACE DISSIMILAR METALS IN CONTACT WITH EACH... PREPARATION OF REINFORCEMENT (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.2 E). PLACE REINFORCEMENT AND TIES IN GROUT SPACES PRIOR TO GROUTING. LOSS OF BOND AND MISALIGNMENT OF THE REINFORCEMENT CAN OCCUR IF IT IS NOT PLACED PRIOR TO GROUTING. REINFORCEMENTS, JOINT REINFORCEMENTS, WALL TIES, VENEER ANCHORS, AND ANCHOR INSTALLATION (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.4) PRESTRESSING TENDON INSTALLATION AND STRESSING PROCEDURE - SITE TOLERANCES (TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.6 A) DETAILS OF REINFORCEMENT AND METAL ACCESSORIES (TMS 402/ACI 530/ ASCE 5, SEC. 6.1) FOR BAR EMBEDMENT, REINFORCEMENT SIZES, PLACEMENT OF REINFORCEMENT, PROTECTION OF REINFORCEMENT AND METAL ACCESSORIES, AND BAR HOOKS/BENDS). ANCHOR BOLT PLACEMENT (TMS 402/ACI 530/ ASCE 5, SEC. 6.2.1), MINIMUM PERMISSIBLE EFFECTIVE EMBEDMENT LENGTH (TMS 402/ACI 530/ ASCE 5, SEC.6.2.6) AND ANCHOR BOLT EDGE DISTANCE (TMS 402/ACI 530/ ASCE 5, SEC.6.2.7)
GROUT SPACE PRIOR TO GROUTING	X	CONTINUOUS		PERIODIC	VERIFY THAT GROUT SPACE IS FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATE, AND MATERIAL DELETERIOUS TO MASONRY GROUT. REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.2 D, 3.2 F
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED...	X	CONTINUOUS		PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.5, 3.6 C
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		CONTINUOUS	X	PERIODIC	VERIFY THAT STRUCTURAL ELEMENTS ARE PLACED IN LOCATIONS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS AND TO THE TOLERANCES. REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 F
TYPE, SIZE AND LOCATION OF ANCHORS AND OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	CONTINUOUS		PERIODIC	VERIFY THAT STRUCTURAL ELEMENTS ARE PLACED IN LOCATIONS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS. HEADED OR BENT BAR ANCHOR BOLTS SHALL BE EMBEDDED IN GROUT. REFERENCE FOR CRITERIA: TMS 402/ACI 530/ ASCE 5, SEC. 2.1.1(e), 6.1.4.3, 6.2.1
WELDING OF REINFORCING BARS	X	CONTINUOUS		PERIODIC	REFERENCE FOR CRITERIA: TMS 402/ACI 530/ ASCE 5, SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)
PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F) OR HOT WEATHER (TEMPERATURE...		CONTINUOUS	X	PERIODIC	WHEN THE AMBIENT AIR TEMPERATURE IS <40°F. WHEN THE AMBIENT AIR TEMPERATURE IS >100°F, OR >90°F WITH A WIND VELOCITY >8MPH. REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.8 C, 1.8 D
APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	CONTINUOUS		PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.6 B
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR...	X	CONTINUOUS		PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 3.3 B.9, 3.3 F.1b
PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	CONTINUOUS		PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 2.1 C
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X			PERIODIC	REFERENCE FOR CRITERIA: TMS 602/ACI 530.1/ ASCE 6, ARTICLE 1.4 B.2.A.3, 1.4 B.2.b.3, 1.4 B.2c.3, 1.4 B.3, 1.4 B.4

WOOD (IBC 1705.5, 1705.5.1, 1705.5.2, 1705.11.1, 1705.11.3, 1705.12.2)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
HIGH-LOAD DIAPHRAGMS		CONTINUOUS	X	PERIODIC	VERIFY APPROPRIATE SHEATHING (GRADE & THICKNESS), FRAMING MEMBER SIZES AT PANEL EDGES AND FASTENERS (NAIL OR STAPLE DIAMETERS, LENGTHS, QUANTITIES, SPACING AND EDGE & END DISTANCES) ARE USED. PERFORMED BY CODE INSPECTION FIRM. HIGH-LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE WITH IBC SECTION 2306.2 SHALL BE IINSTALLED WITH SPECIAL INSPECTIONS AS INDICATED IN SECTION 1704.2
METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING GREATER THAN AND EQUAL TO 60-FEET		CONTINUOUS	X	PERIODIC	VERIFY THAT TEMPORARY AND PERMANENT TRUSS BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED TRUSS PACKAGE. PERFORMED BY CODE INSPECTION FIRM.
PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES					SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.5.2. SPECIAL INSPECTIONS OF SITE-BUILT ASSEMBLIES SHALL BE IN ACCORDANCE WITH IBC 1705.5
SITE-BUILT ASSEMBLIES					SHALL BE IN ACCORDANCE WITH IBC 1705.5
STRUCTURAL WOOD - FASTENERS OF MAIN WIND FORCE RESISTING SYSTEM OR FOR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.		CONTINUOUS	X	PERIODIC	IF FASTENER SPACING IS < 4"O.C.: VERIFY THAT PROPER NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF SHEARWALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS HAS OCCURRED. PERFORMED BY CODE INSPECTION FIRM.
STRUCTURAL WOOD - GLUING OF MAIN WIND FORCE RESISTING SYSTEM OR FOR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.	X	CONTINUOUS		PERIODIC	FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS COMPONENTS.		CONTINUOUS	X	PERIODIC	WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRGAMS AND FRAMING.

SOILS CONSTRUCTION (IBC 1705.6)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		CONTINUOUS	X	PERIODIC	PRIOR TO PLACEMENT OF CONCRETE.
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		CONTINUOUS	X	PERIODIC	PRIOR TO PLACEMENT OF COMPACTED FILL OR CONCRETE.
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL.		CONTINUOUS	X	PERIODIC	ALL MATERIALS SHALL BE CHECKED AT EACH LIFT FOR PROPER CLASSIFICATIONS AND GRADATIONS NOT LESS THAN ONCE FOR EACH 10,000FT² OF SURFACE AREA.
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	CONTINUOUS		PERIODIC	PRIOR TO PLACEMENT OF COMPACTED FILL.
INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		CONTINUOUS	X	PERIODIC	PRIOR TO PLACEMENT OF COMPACTED FILL,
NOTES: THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE EOR SHALL BE USED TO DETERMINE COMPLIANCE. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.					

DRIVEN DEEP FOUNDATIONS (IBC 1704.8)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
VERIFY MATERIALS, SIZES AND LENGTHS	X	CONTINUOUS		PERIODIC	
DETERMINE CAPACITIES AND CONDUCT NECESSARY LOAD TESTS	X	CONTINUOUS		PERIODIC	
OBSERVE DRILLING OPERATIONS	X	CONTINUOUS		PERIODIC	
VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY...	X	CONTINUOUS		PERIODIC	
PERFORM ADDITIONAL INSPECTIONS FOR STEEL, CONCRETE OR OTHER SPECIALTY ELEMENTS.		CONTINUOUS		PERIODIC	STEEL PER IBC 1704.3 CONCRETE PER IBC 1704.4 SPECIALTY ITEMS PER REGISTERED DESIGN PROFESSIONAL

CAST-IN-PLACE DEEP FOUNDATIONS (IBC 1704.9)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
OBSERVE DRILLING OPERATION AND REPORTING	X	CONTINUOUS		PERIODIC	
VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, EMBEDMENT AND ADEQUATE END-BEARING CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	CONTINUOUS		PERIODIC	
PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE ELEMENTS.		CONTINUOUS		PERIODIC	CONCRETE PER IBC 1704.4

Helical Pile Foundations (IBC 1704.10)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH AND FINAL INSTALLATION TORQUE	X	CONTINUOUS		PERIODIC	
VERIFY THAT HELICAL PILES USED MATCH THE APPROVED SUBMITTAL	X	CONTINUOUS		PERIODIC	

RACKS & SEISMIC ISOLATION SYSTEMS (IBC 1705.12.7 AND 1705.12.8)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
STORAGE RACKS SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F.		CONTINUOUS	X	PERIODIC	ANCHORAGE OF STORAGE RACKS THAT ARE 8 FEET OR GREATER IN HEIGHT IN STRUCTURES.
SEISMIC ISOLATION SYSTEMS		CONTINUOUS	X	PERIODIC	DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES FOR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E, OR F.

ARCHITECTURAL (IBC 1705.11.3, 1705.12.5 & 1705.12.5.1)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
ARCHITECTURAL COMPONENTS SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F.		CONTINUOUS	X	PERIODIC	THE ERECTION AND FASTENING OF THE EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER. APPLICABLE FOR EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER GREATER THAN 30 FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACE OR EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING GREATER THAN 5 PSF OR INTERIOR NONBEARING WALLS WEIGHING GREATER THAN 15 PSF
ACCESS FLOOR COMPONENTS		CONTINUOUS	X	PERIODIC	APPLICABLE FOR SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS COMPONENTS.		CONTINUOUS	X	PERIODIC	ROOF COVERING CONNECTIONS AND EXTERIOR WALL COVERING TO ROOF AND FLOOR DIAPHRGAMS AND FRAMING.

MECHANICAL, ELECTRICAL AND PLUMBING (IBC 1705.12.6)

ITEM	FREQUENCIES				DETAIL DESCRIPTION
ELECTRIAL ANCHORAGE SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.		CONTINUOUS	X	PERIODIC	ELECTRICAL ANCHORAGE FOR EMERGENCY AND STANDBY POWER SYSTEMS.
ELECTRIAL ANCHORAGE SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F.		CONTINUOUS	X	PERIODIC	ELECTRICAL ANCHORAGE FOR OTHER ELECTRICAL EQUIPMENT.
PLUMBING ANCHORAGE AND INSTALLATION SEISMIC-FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.		CONTINUOUS	X	PERIODIC	PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS.

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STATE OF MISSOURI
DAVID F. IMPSON
NUMBER
PE-2021046162
PROFESSIONAL ENGINEER
11-18-2024

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

- Issued For Permit -

FSR#05248

BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 24.08
PRINTED FOR
PERMIT SET

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/24
DRAWN BY BCO

SHEET
SPECIAL INSPECTION

SHEET NUMBER
S-904

DIVISION 15 SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY FOR COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.

C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS, DUCTWORK AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT

A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.

B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.

C. COMPRESSORS SHALL BE HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.

D. THE UNIT HEAT EXCHANGERS SHALL BE ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. HEAT EXCHANGERS SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

2.02 DUCTWORK (C15735)

A. ACCEPTABLE MANUFACTURERS OF INSULATION SHALL BE: JOHNS MANVILLE, OWENS CORNING OR KNAUF.

B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).

C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.

D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.

E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

F. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.

K. DUCT DROPS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS.

M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE. FLEX DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.

N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED IN SUPPLY DUCT AT ALL 90 DEGREE ELBOWS WHERE THE CENTERLINE RADIUS (R) IS LESS THAN THE WIDTH OF THE DUCT AND ANY ONE DIMENSION IS GREATER THAN 12".

Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS

A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR WHERE PERMITTED BY AHJ.

B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.

C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.

D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.

E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.

F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. REMOTE TEMPERATURE SENSOR(S) FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR(S) AND THE ROOFTOP UNIT.

H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

2.04 PIPING

A. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

B. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

C. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

D. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - EXECUTION

3.01 SCOPE

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

3.02 LEED PROJECTS

A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.

B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.

C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.

D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAT FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.

E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 TEST & BALANCE

A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.

C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.

D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...

E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD∅ FLEXIBLE∅ DIFFUSER		RETURN/EXHAUST (TYP.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
			CLOSED AIR PATTERN DEFLECTOR
SW	AIR DOOR SWITCH	GIH	GAS INFRARED HEATER (TYP.)
EIH	ELECTRIC INFRARED HEATER	B/G	BELOW GRADE
		T	THERMOSTAT

ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
IRH	INFRARED HEATER
CF	CIRCULATING FAN
TF	TRANSFER FAN
EF	EXHAUST FAN

GENERAL NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT AND INSULATION NOT SHOWN FOR CLARITY.
3. FOR ALL ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. WITH A SELF ADHESIVE BACKING.
4. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
5. ALL EXHAUST DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLAIMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLAIMS PRO INDUSTRIAL PRO-CRYLACRYLIC UNIVERSAL PRIMER, WHITE, PRIOR TO PAINTING.
6. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

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11/15/24

CHICK-FIL-A
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FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO. DATE DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
DRAWN BY BLM

SHEET
GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS
SHEET NUMBER
M-001

Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR05248_Hwy 50 & SR 291 (MO) FSU_K&A_MEC.rvt
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2021 IECC Commissioning Requirements for Mechanical

2021 IECC COMMISSIONING REQUIREMENTS

C408.1 MECHANICAL SYSTEMS SHALL BE DOCUMENTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.1.1 PROVIDE AN OPERATION AND MAINTENANCE MANUAL WHICH INCLUDES THE FOLLOWING:

1. PROVIDE HVAC EQUIPMENT SUBMITTAL DATA.
2. PROVIDE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR HVAC EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE HVAC SERVICE AGENCY.
4. PROVIDE HVAC CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES. TENANT DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR IN SYSTEM PROGRAMMING INSTRUCTIONS.
5. PROVIDE A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C408.2 COMMISSIONING OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.1 A COMMISSIONING PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH THIS SECTION AND SHALL INCLUDE THE FOLLOWING ITEMS.

1. A NARRATIVE DESCRIPTION OF THE ACTIVITIES TO BE PERFORMED.
2. A LIST OF THE SYSTEMS AND EQUIPMENT REQUIRED TO BE COMMISSIONED.
3. A LIST OF THE TEST FUNCTIONS TO BE PERFORMED ON THE CORRESPONDING EQUIPMENT.
4. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED.
5. MEASUREABLE CRITERIA FOR PERFORMANCE.

C408.2.2 MECHANICAL SYSTEMS SHALL UNDERGO TEST AND BALANCE AND SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS AS WELL AS THE 2021 IECC. AIR AND WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE CONSTRUCTION SPECIFICATIONS.

C408.2.2.1 CONDUCT AIR SYSTEMS TEST AND BALANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND THE CONSTRUCTION SPECIFICATIONS.

C408.2.2.2 CONDUCT WATER SYSTEMS TEST AND BALANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND THE CONSTRUCTION SPECIFICATIONS.

C408.2.3 PERFORM FUNCTIONAL PERFORMANCE TESTING IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.3.1 PERFORM FUNCTIONAL PERFORMANCE TESTING FOR HVAC EQUIPMENT IN ORDER TO DEMONSTRATE THE OPERATION OF COMPONENTS, SYSTEMS AND SYSTEM-TO-SYSTEM INTERRACTION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER REQUIREMENTS. TESTING SHALL INCLUDE FULL-LOAD, PART-LOAD AND EMERGENCY OPERATING CONDITIONS AND SHALL COVER ALL OPERATING MODES LISTED IN THE SEQUENCE OF OPERATION AS DEFINED IN THE CONSTRUCTION DOCUMENTS.

C408.2.3.2 HVAC SYSTEMS SHALL BE TESTED IN ORDER TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED AND ADJUSTED TO OPERATE IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. HVAC CONTROL SYSTEMS SHALL BE TESTED FOR ALL OPERATING MODES LISTED IN THE SEQUENCE OF OPERATION AS DEFINED IN THE CONSTRUCTION DOCUMENTS.

C408.2.3.3 AIRSIDE ECONOMIZERS SHALL UNDERGO FUNCTIONAL PERFORMANCE TESTING IN ORDER TO ENSURE OPERATIONAL MODES ARE FUNCTIONING IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

C408.2.4 COMPLETE A PRELIMINARY COMMISSIONING REPORT OUTLINING TEST PROCEDURES AND RESULTS IN ACCORDANCE WITH THIS SECTION. THE REPORT SHALL IDENTIFY:

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF THE REPORT PREPARATION DUE TO CLIMATIC CONDITIONS.
3. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.
4. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
5. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS, INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE.

C408.2.4.1 THE OWNER SHALL RECEIVE A COPY OF THE PRELIMINARY COMMISSIONING REPORT BEFORE FINAL INSPECTION BY THE CODE OFFICIAL OCCURS.

C408.2.4.2 THE PRELIMINARY COMMISSIONING REPORT SHALL BE MADE AVAILALBE TO THE PROJECT CODE OFFICIAL UPON REQUEST.

C408.2.5 COMMISSIONING DOCUMENTATION OUTLINED IN SECTION C408 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.2.5.1 PROVIDE AIR AND WATER SYSTEM TEST AND BALANCES REPORTS IN ACCORDANCE WITH SECTION C408.2.2.

C408.2.5.2 PROVIDE A FINAL COMMISSIONING REPORT TO THE OWNER INCLUDING THE FOLLOWING.

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TESTING PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED FOR REPEATABILITY.
4. LIST OUT ANY DEFERRED TESTS STILL OUTSTANDING DUE TO CLIMATIC CONDITIONS.

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REGISTERED PROFESSIONAL ENGINEER

11/15/24

CHICK-FIL-A
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FSR#05248

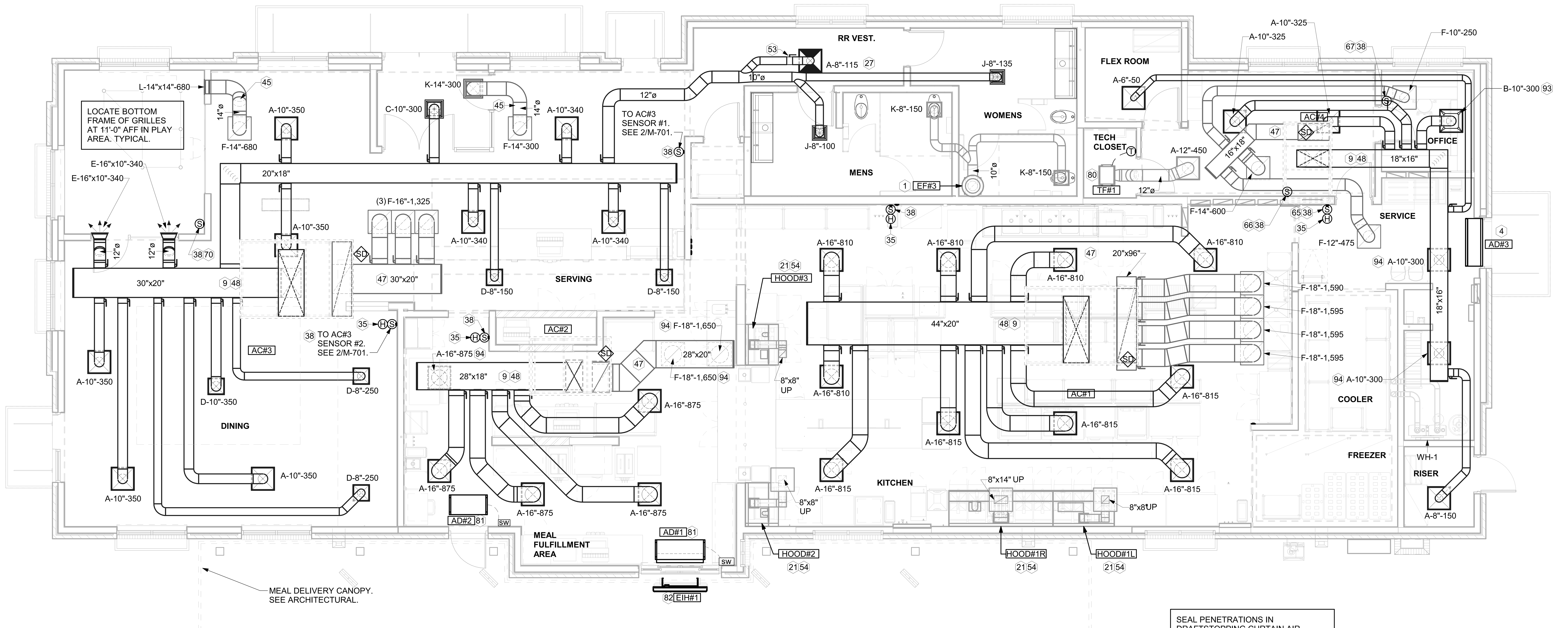
BUILDING TYPE / SIZE: P14 LSR ALL
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	24137.CD.S
DATE	11/15/2024
DRAWN BY	BLM

SHEET
COMMISSIONING REQUIREMENTS - MECHANICAL
SHEET NUMBER
M-002



SEAL PENETRATIONS IN DRAFTSTOPPING CURTAIN AIR-TIGHT. REFER TO ARCH DRAWINGS FOR LOCATION AND CONSTRUCTION OF DRAFTSTOPPING CURTAIN.

1 EQUIPMENT AND DUCTWORK PLAN

1/4" = 1'-0"

H.E.S. SYSTEM

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

AIR BALANCE SCHEDULE TRANE

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125	6,375	1,750	0	
AC#2	4,375	3,300	1,075	0	
AC#3	5,250	3,975	1,275	0	
AC#4	1,750	1,325	425	0	
EF#1	0	0	0	1,913	
EF#2	0	0	0	1,402	
EF#3	0	0	0	300	
	19,500	14,975	4,525	3,615	910

KEY NOTES

1 10" DIA. DUCT UP THRU ROOF.

4 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.

9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.

21 HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.

27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.

35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.

38 MOUNT REMOTE SENSOR ON WALL AT 5-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.

45 TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.

47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).

48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).

53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.

54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.

65 TO AC#4, SENSOR #1. SEE 2/M-701.

66 TO AC#4, SENSOR #2. SEE 2/M-701.

67 TO AC#4, SENSOR #3. SEE 2/M-701.

70 TO AC#3, SENSOR #3. SEE 2/M-701.

80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE TO TYPE 'A' DIFFUSER AS SHOWN.

81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.

82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.

93 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.

94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.

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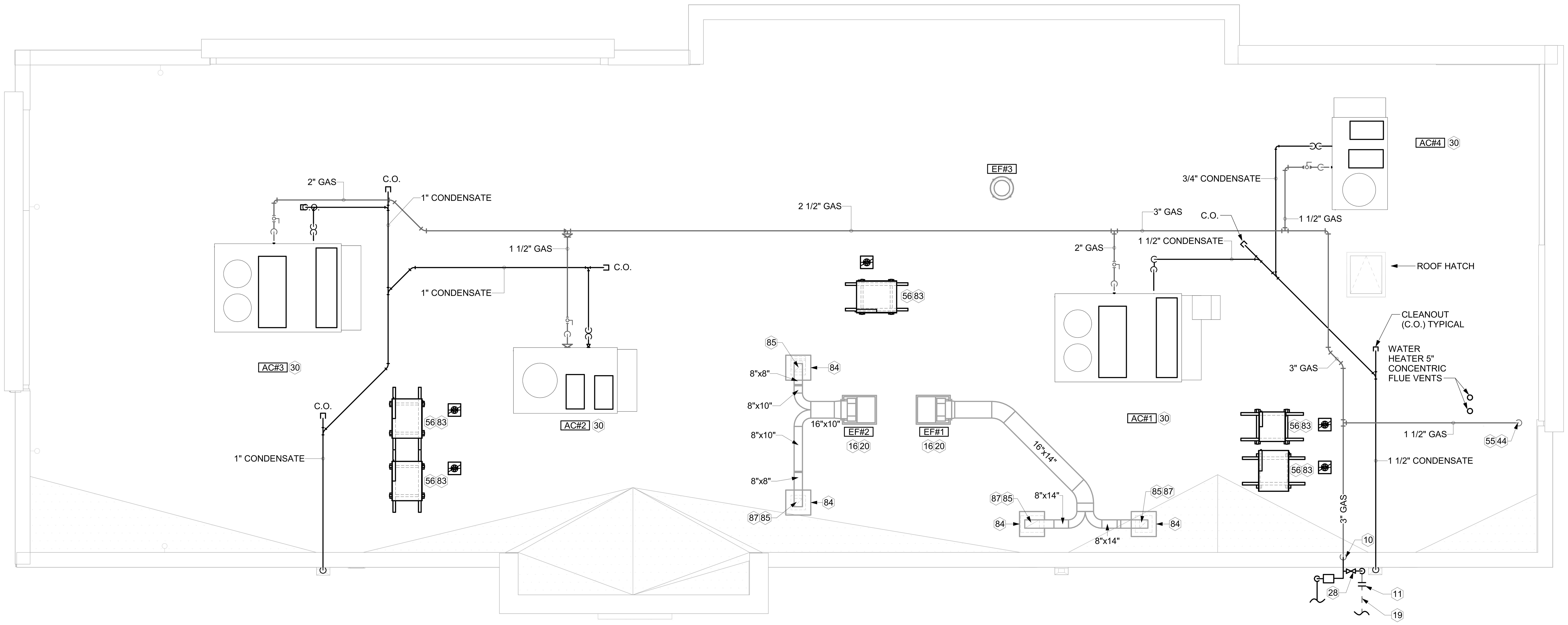
DATE 11/15/2024
DRAWN BY BLM

SHEET
EQUIPMENT AND DUCTWORK PLAN - TRANE
SHEET NUMBER



1 EQUIPMENT ROOF PLAN - TRANE

1/4" = 1'-0"

KEY NOTES

10 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.

11 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.

16 VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. MINIMUM TERMINATION 40" ABOVE ROOF SURFACE. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.

19 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 SHEET M-103.

20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET.

28 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."

30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.

44 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 2/M-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION.

55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.

56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURERED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.

83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.

84 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.

85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.

87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

3. GAS LOAD SCHEDULE

EQUIPMENT	GAS LOAD
AC#1	400,000 BTUS
AC#2	250,000 BTUS
AC#3	400,000 BTUS
AC#4	150,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER	398,000 BTUS
TOTAL FUTURE CONNECTED LOAD	1,898,000 BTUS
REMARKS:	1. EQUIVALENT TO 1,898.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 200 FT, (METER TO AC#3) 4. GAS PIPING SIZED FOR FUTURE LOAD

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

11/15/24

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
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CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
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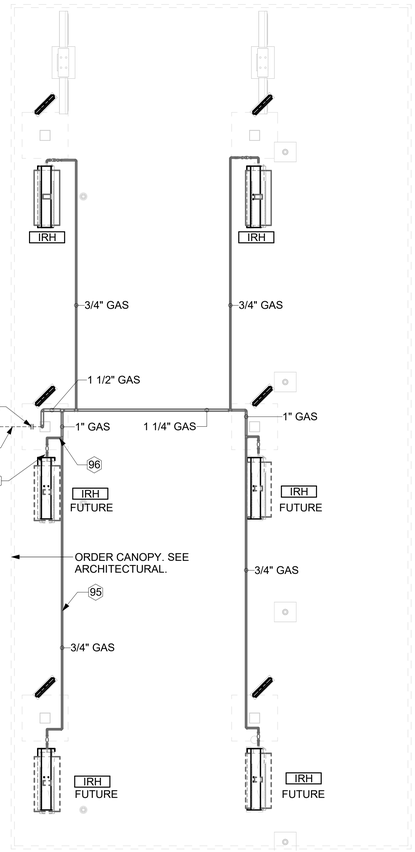
SHEET
EQUIPMENT ROOF PLAN - TRANE

SHEET NUMBER
M-102



2 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

CANOPY GENERAL NOTES

1. COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
4. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

KEY NOTES

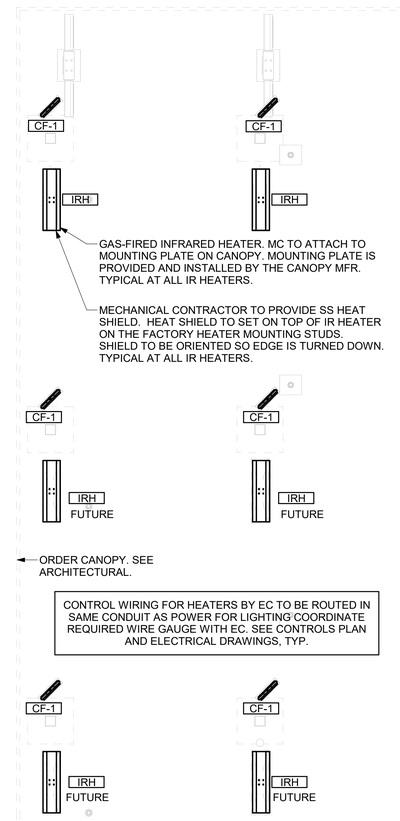
95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.

96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-502, TYPICAL.

97 SEE DETAIL 1/M-502 FOR PIPING AT IRH, TYPICAL.

98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.

99 1-1/2" GAS B/G TO METER SEE 1/M-102.



1 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

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5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske
& Associates
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STATE OF MISSOURI
MARK T. KURZYNSKE
E-2000153991
REGISTERED PROFESSIONAL ENGINEER

11/15/24

CHICK-FIL-A
Oldham Village FSU

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Lee's Summit, MO 64081

FSR#05248

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SHEET
CANOPY HVAC PLAN

SHEET NUMBER
M-103

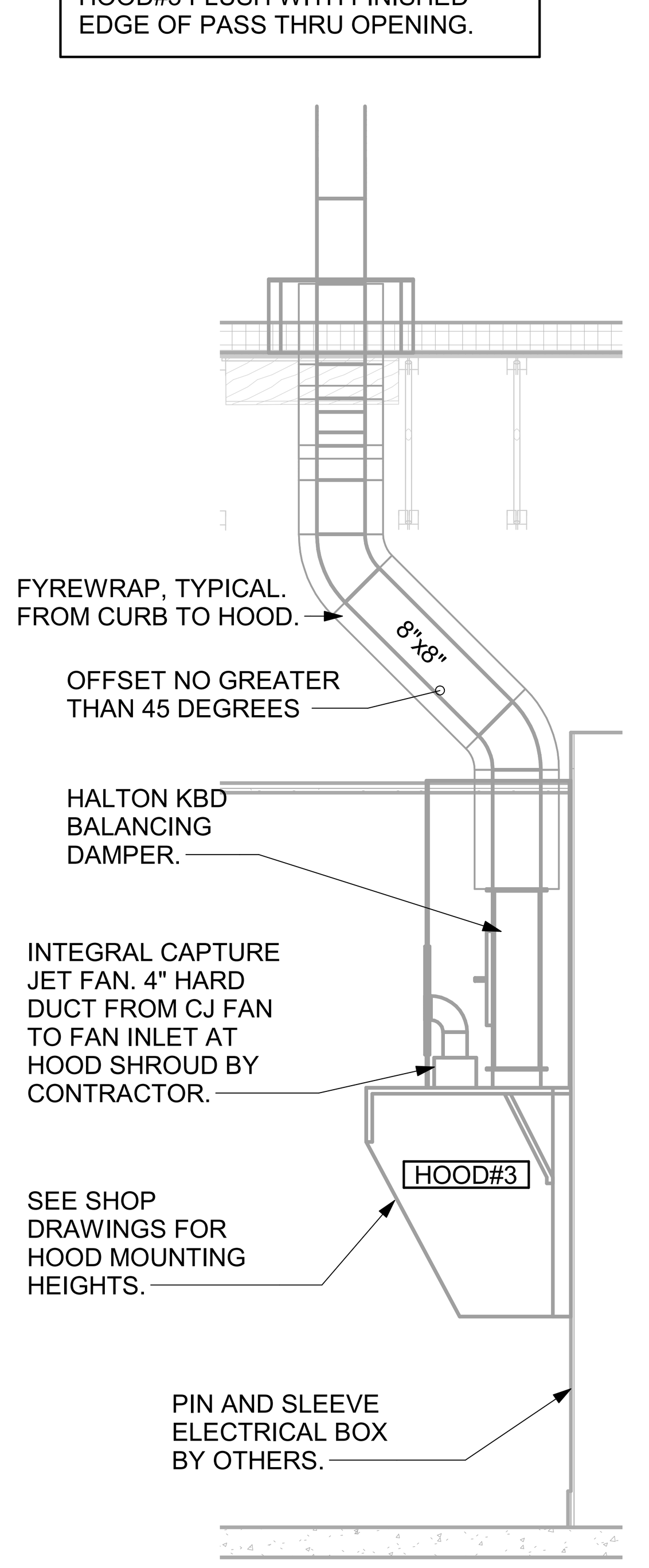
GREASE EXHAUST DUCT CLEARANCE NOTE:

CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.

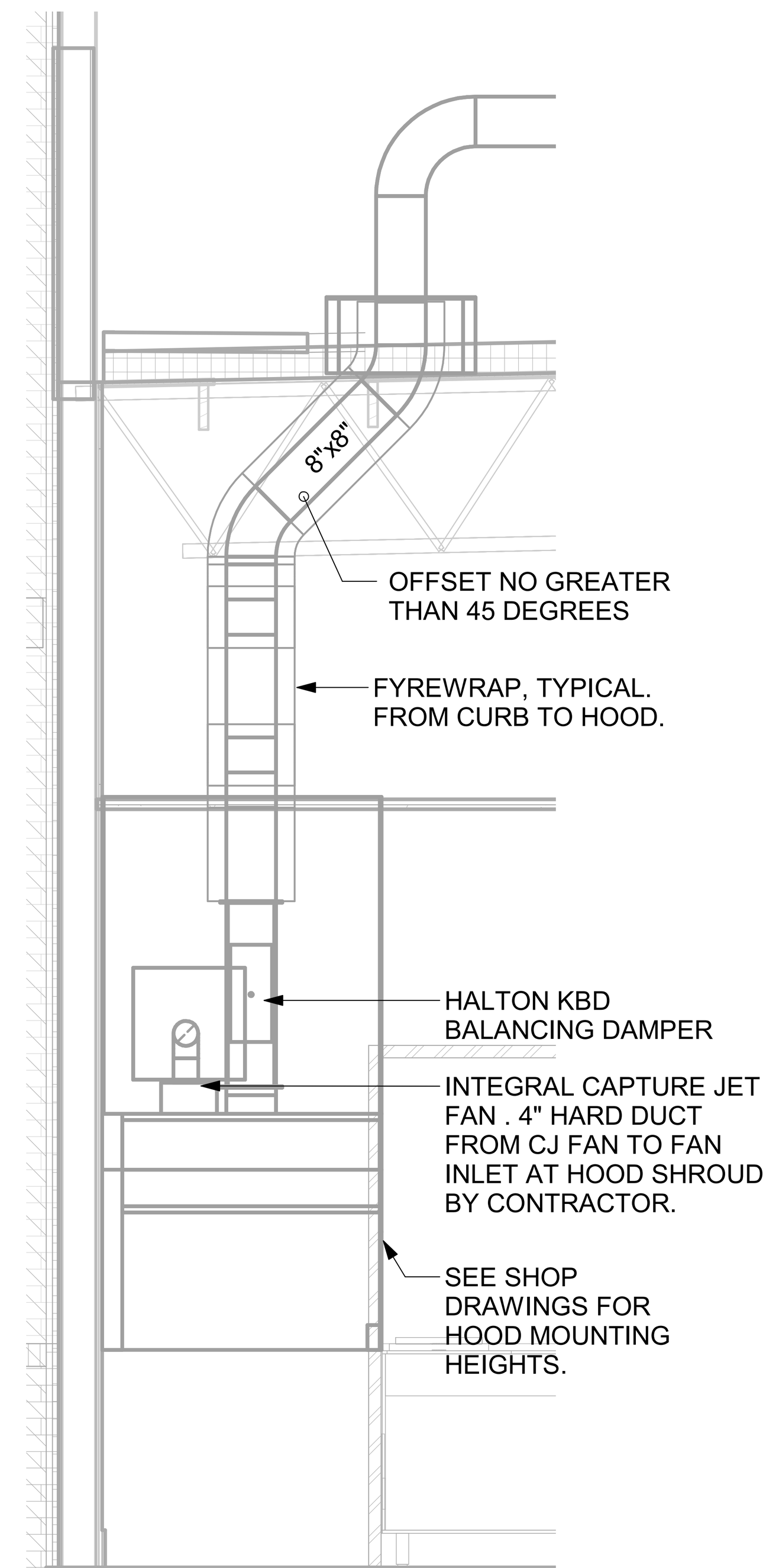
CLEANOUT DOOR NOTE:

DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

CRITICAL: SET LEFT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

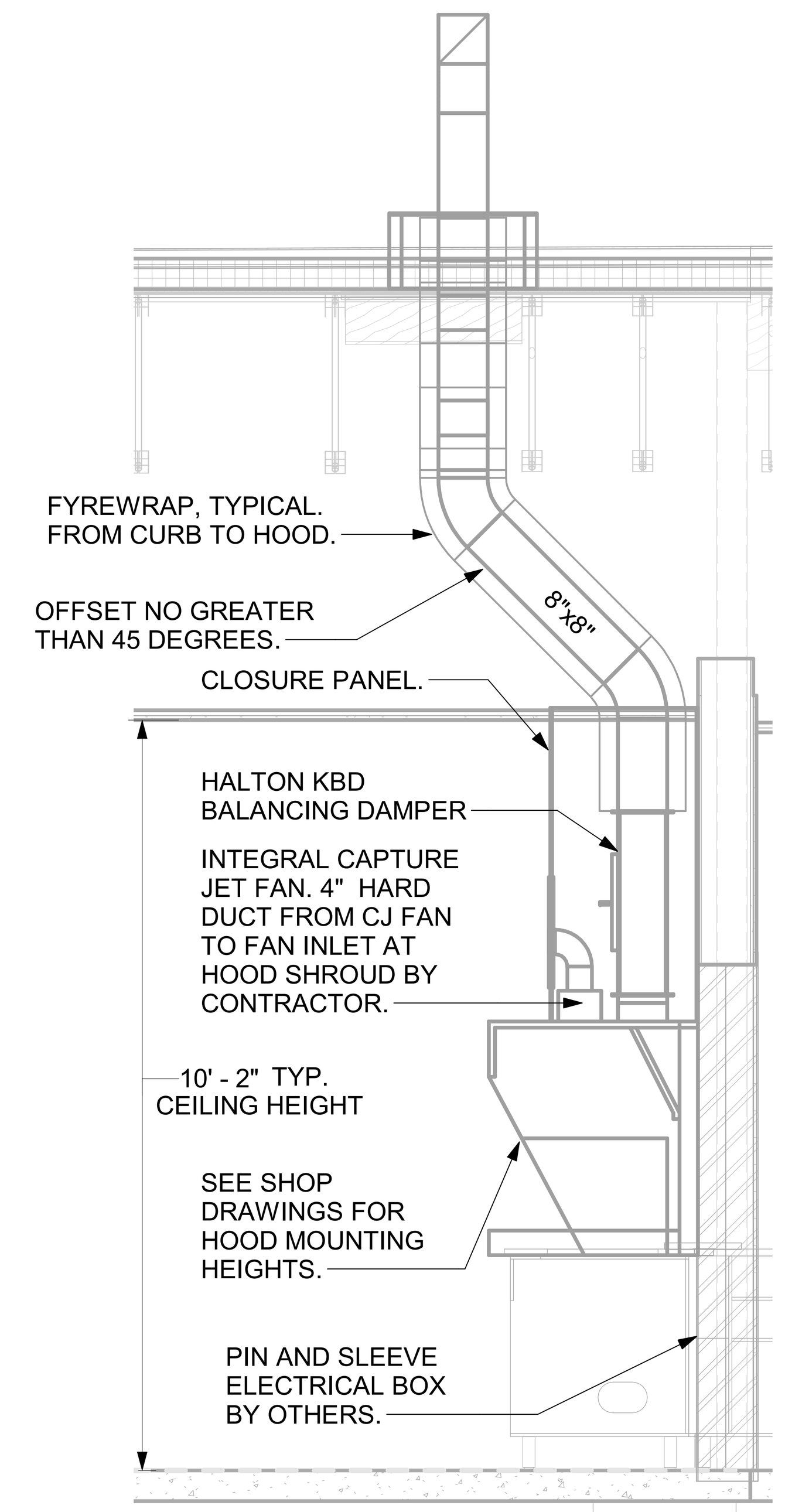


6 HOOD ELEVATION - HOOD#3
NOT TO SCALE

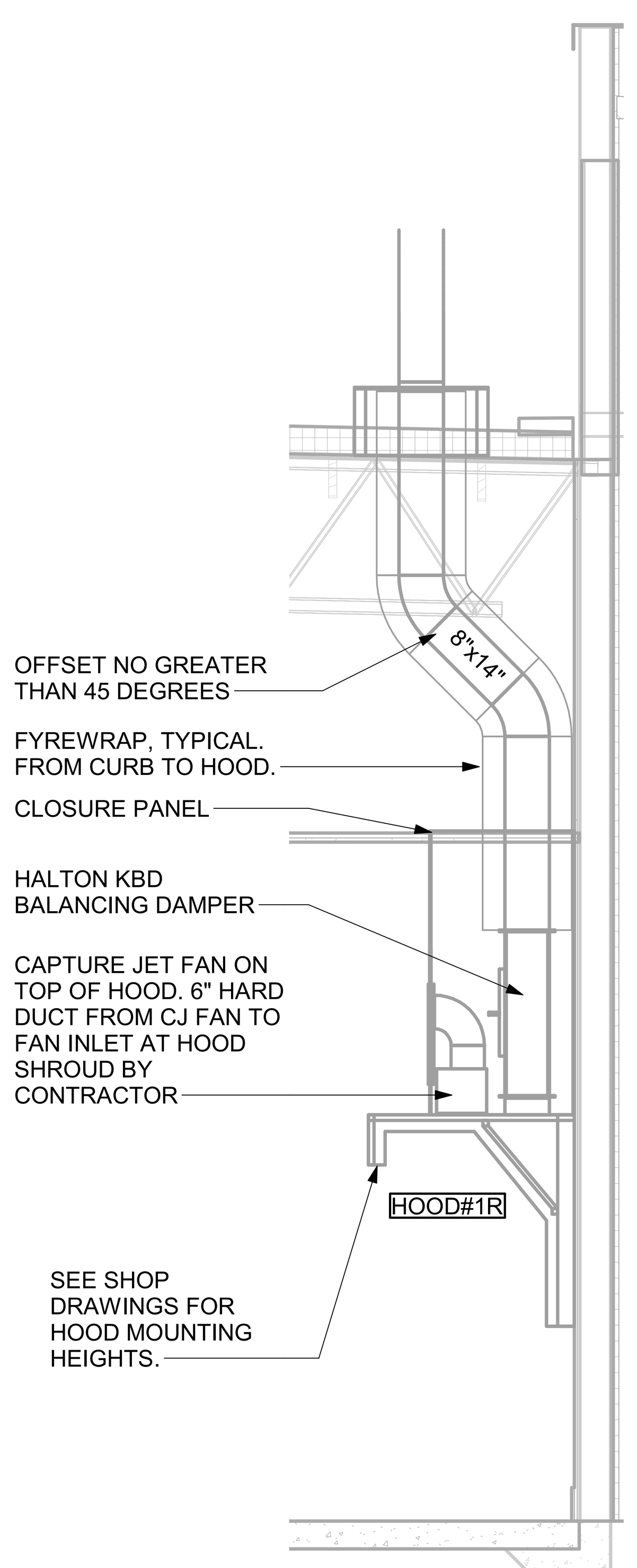


5 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE

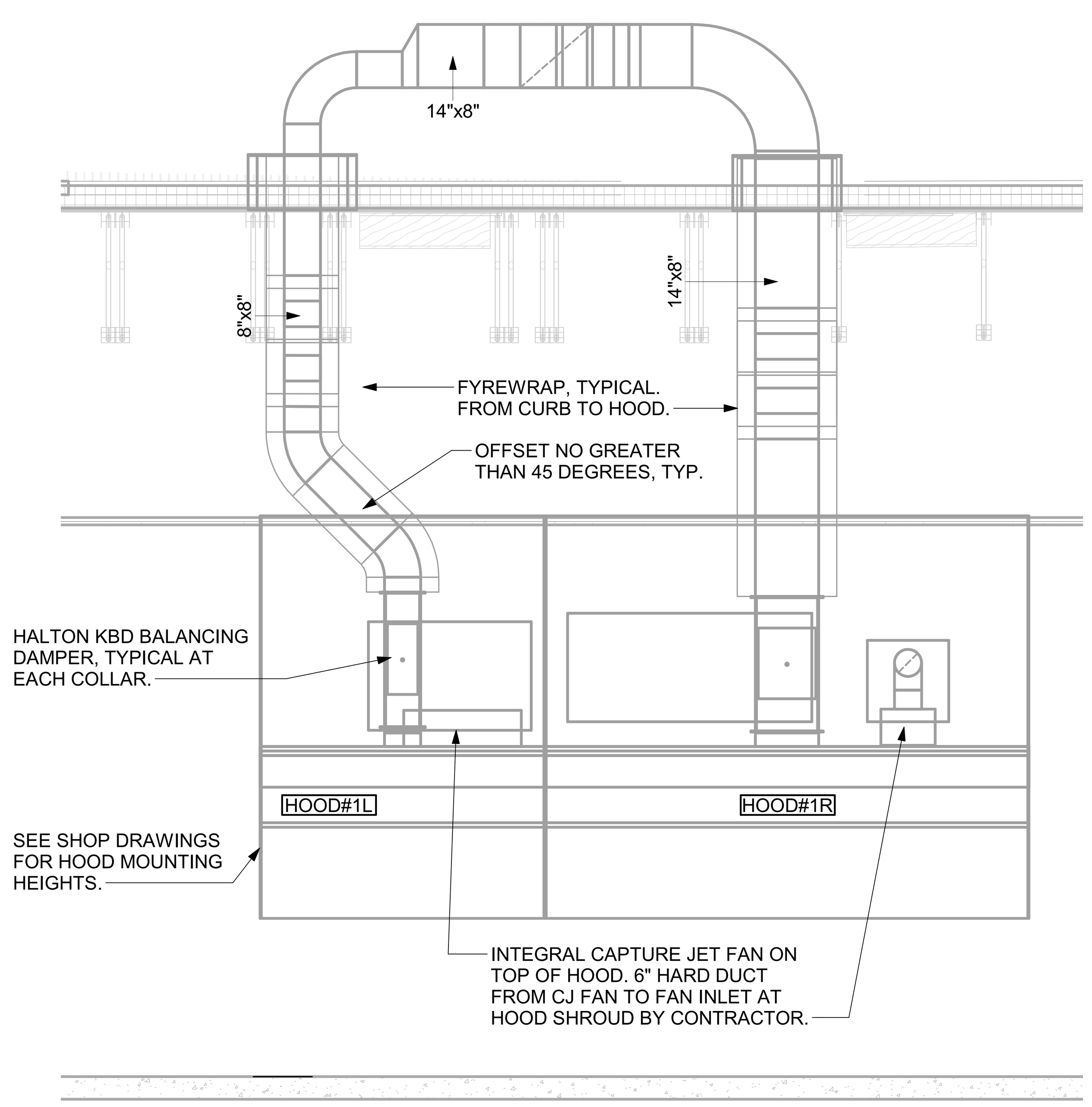
CRITICAL: SET RIGHT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.



4 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE



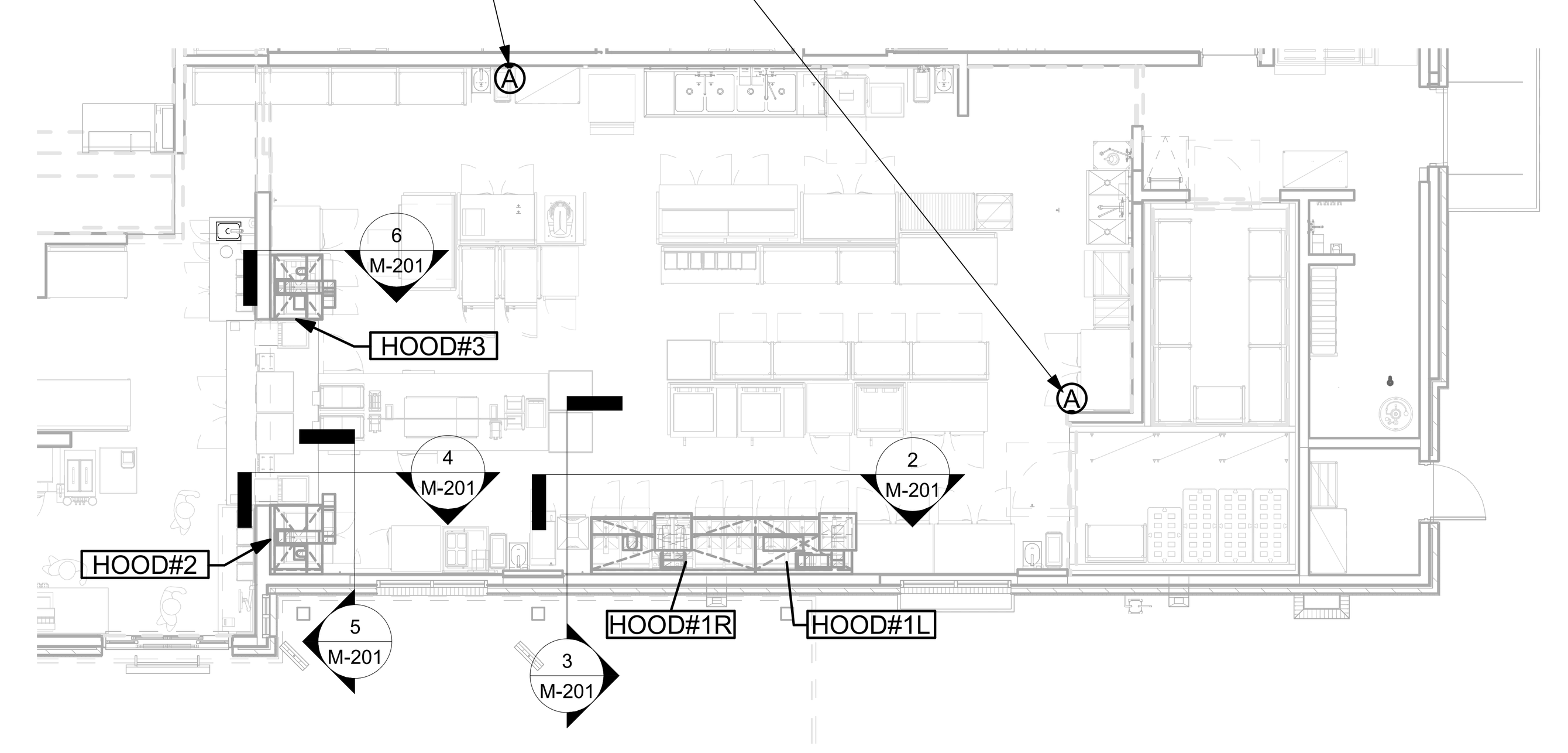
3 HOOD ELEVATION - HOOD#1 - SIDE
NOT TO SCALE



2 HOOD ELEVATION - HOOD#1 - FRONT
NOT TO SCALE

PULL STATION SERVING BOTH HOOD#2 AND HOOD#3 ADJACENT TO HANDSINK. LOCATE PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "PASS THRU HOODS".

PULL STATION SERVING HOOD#1. LOCATE PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "MAIN COOKLINE HOOD".



1 HOOD LAYOUT
NOT TO SCALE

Chick-fil-A
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STATE OF MISSOURI MARK T. KURZYNSKE E-2000152441 REGISTERED PROFESSIONAL ENGINEER
11/15/24

CHICK-FIL-A
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Lee's Summit, MO 64081

FSR#05248

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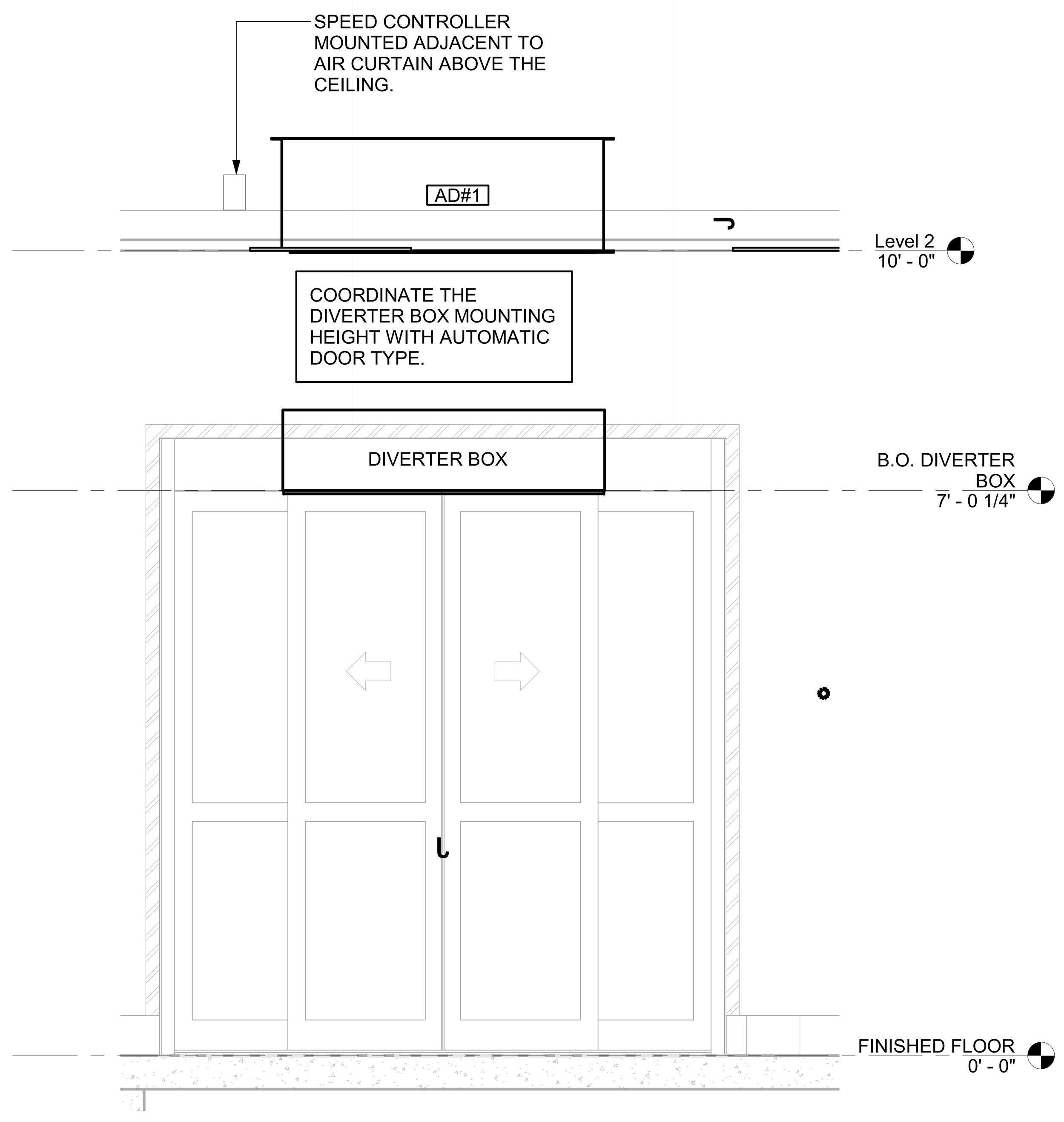
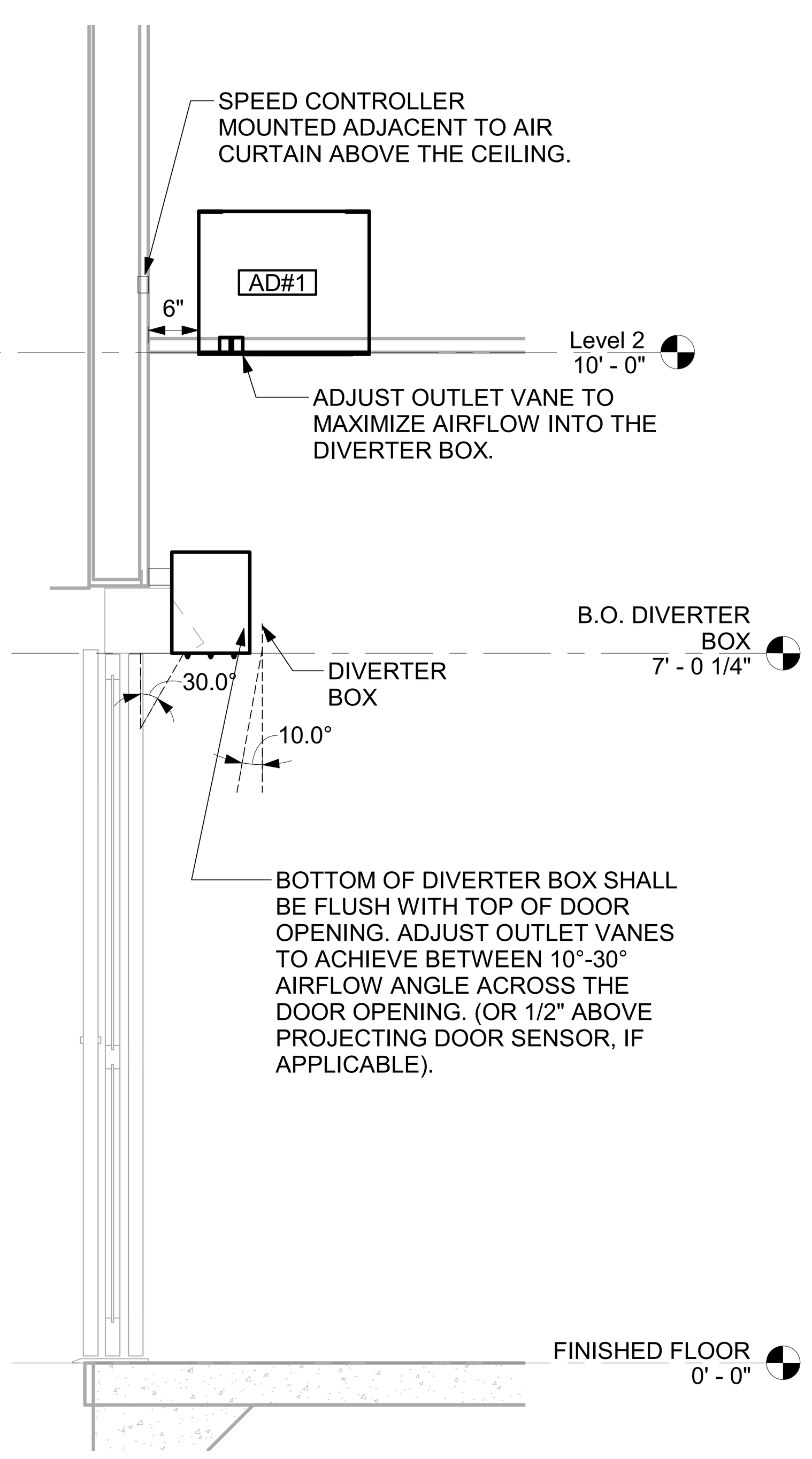
SHEET
EXHAUST HOOD ELEVATIONS

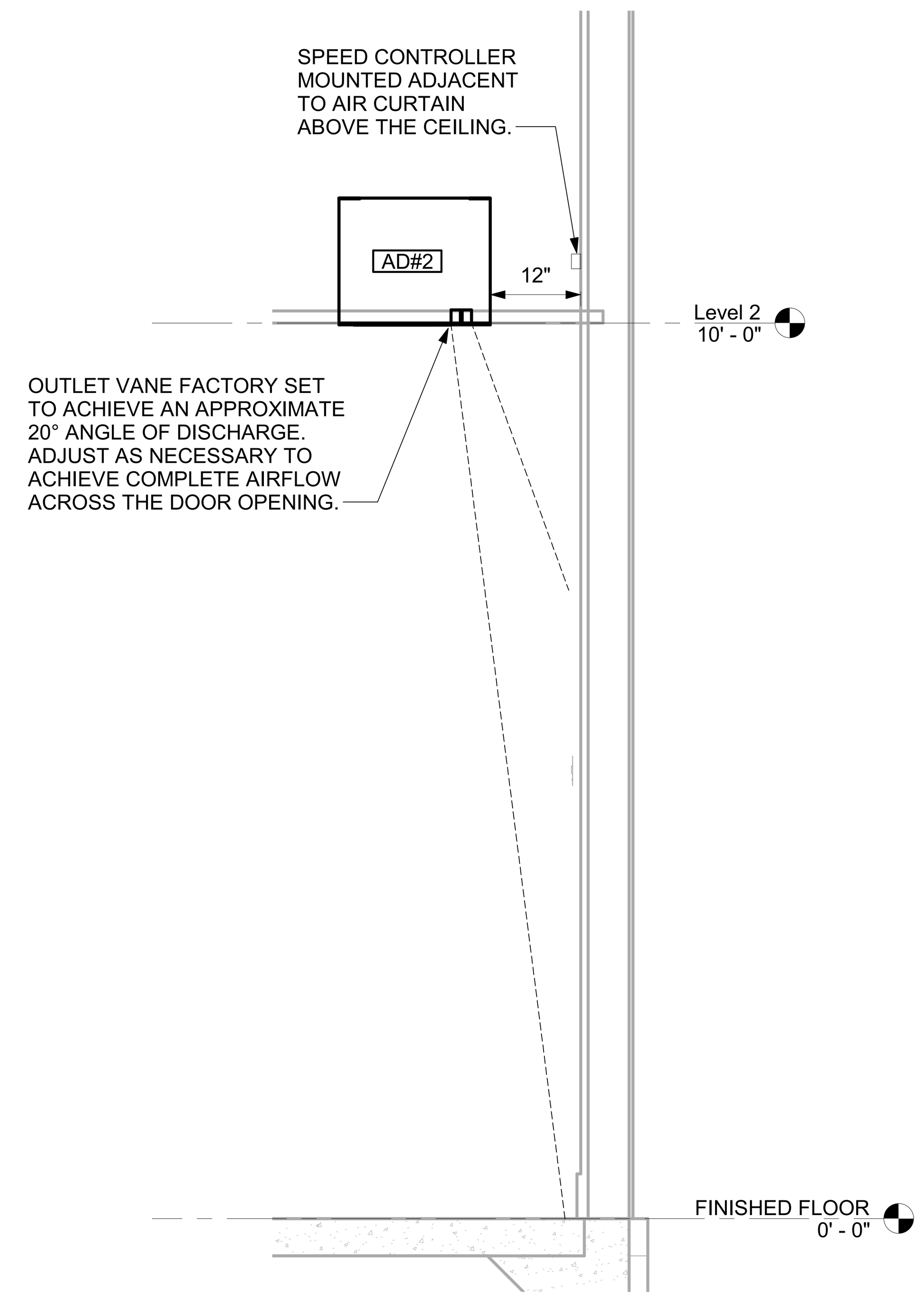
SHEET NUMBER
M-201



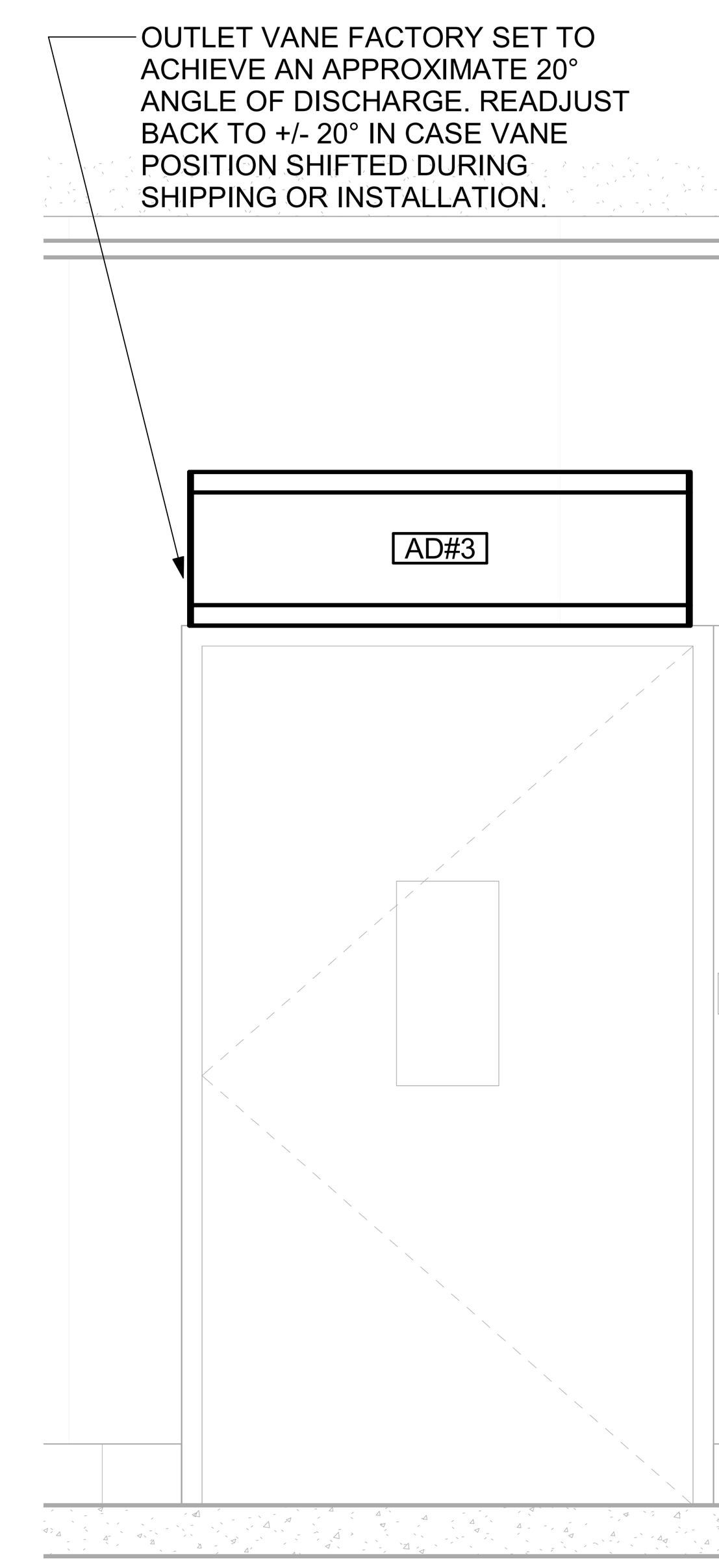
2 AD#1 FRONT VIEW
3/4" = 1'-0"



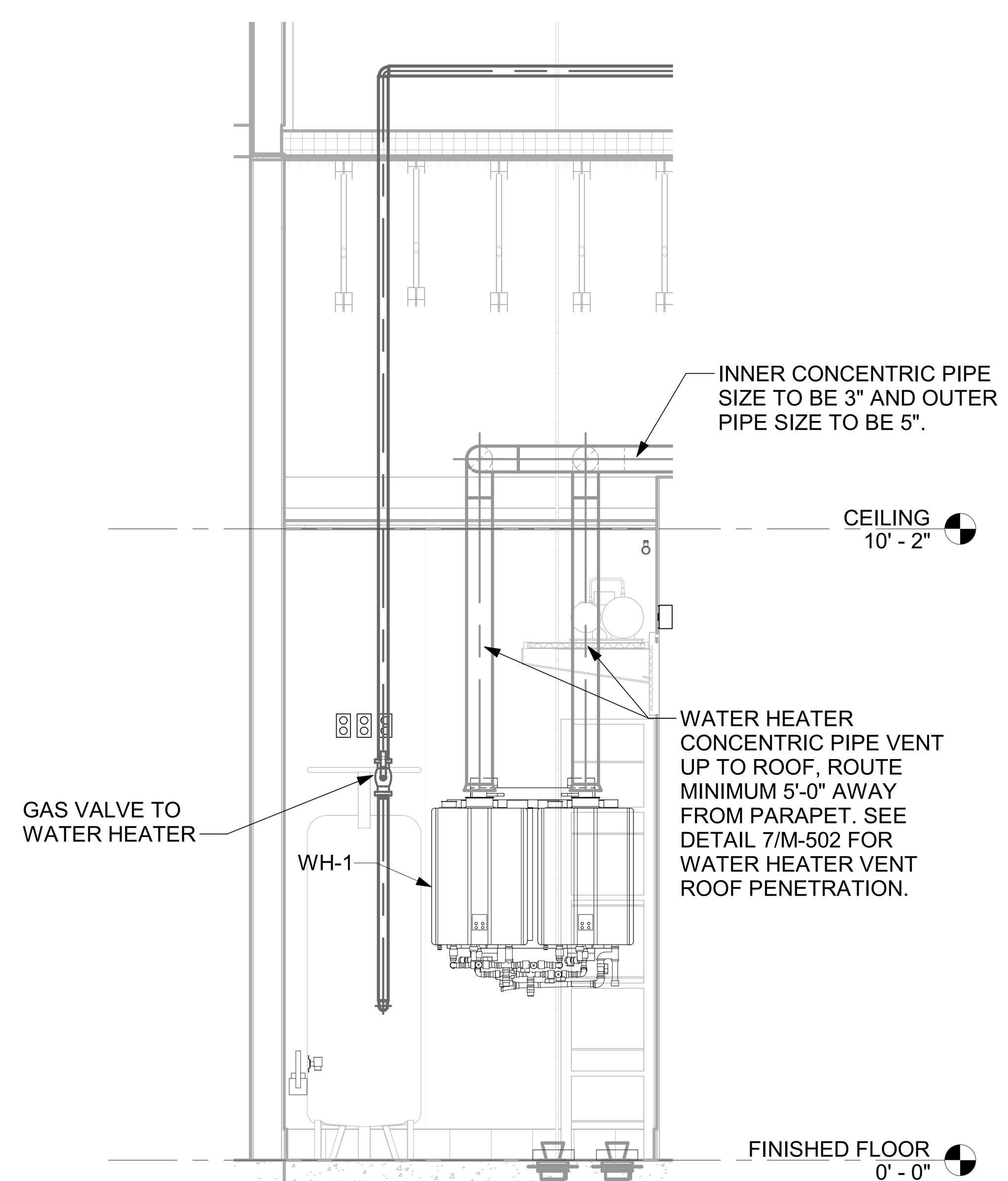
3 AD#1 SIDE VIEW
3/4" = 1'-0"



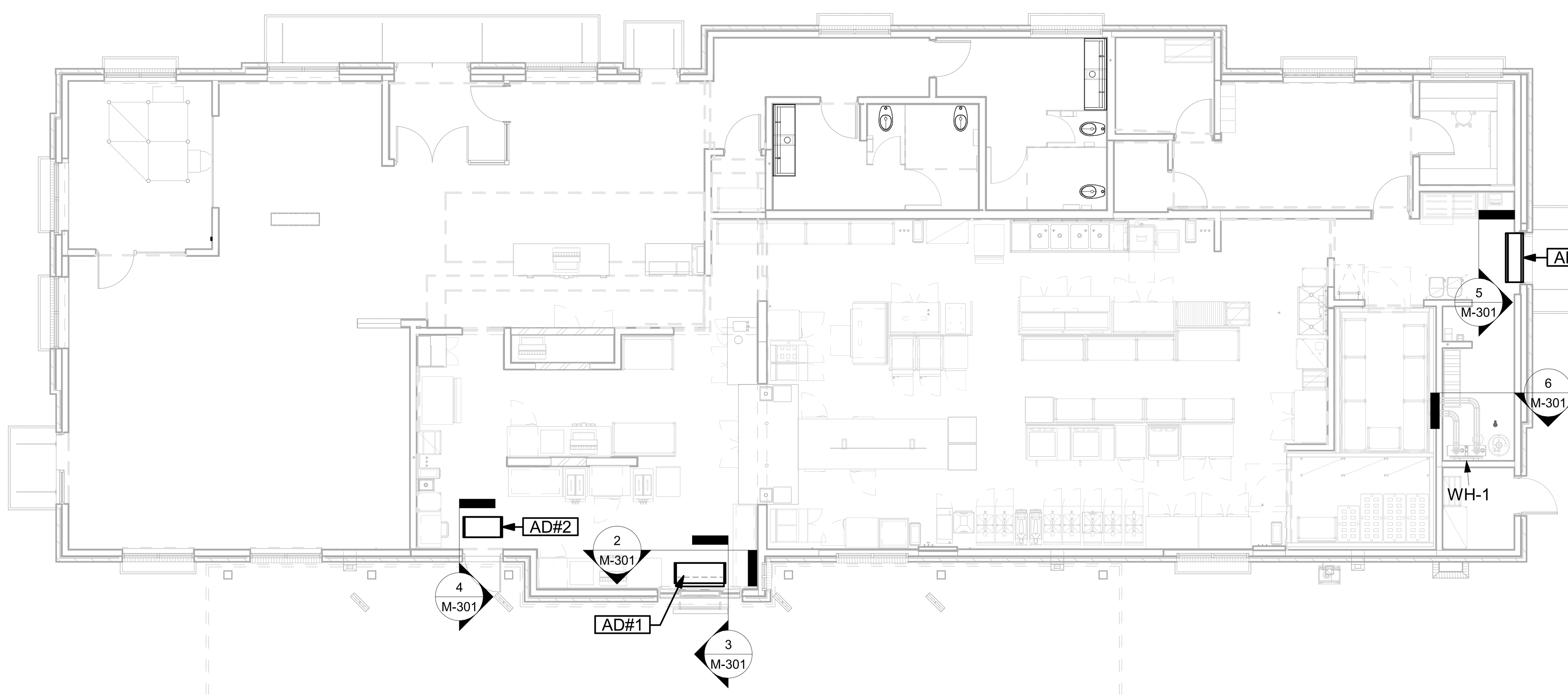
4 AD#2 SIDE VIEW
3/4" = 1'-0"



5 AD#3 FRONT VIEW
3/4" = 1'-0"



6 WATER HEATER GAS PIPING AND VENTING
NOT TO SCALE



1 VARIOUS SECTIONS
1/8" = 1'-0"

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CHICK-FIL-A
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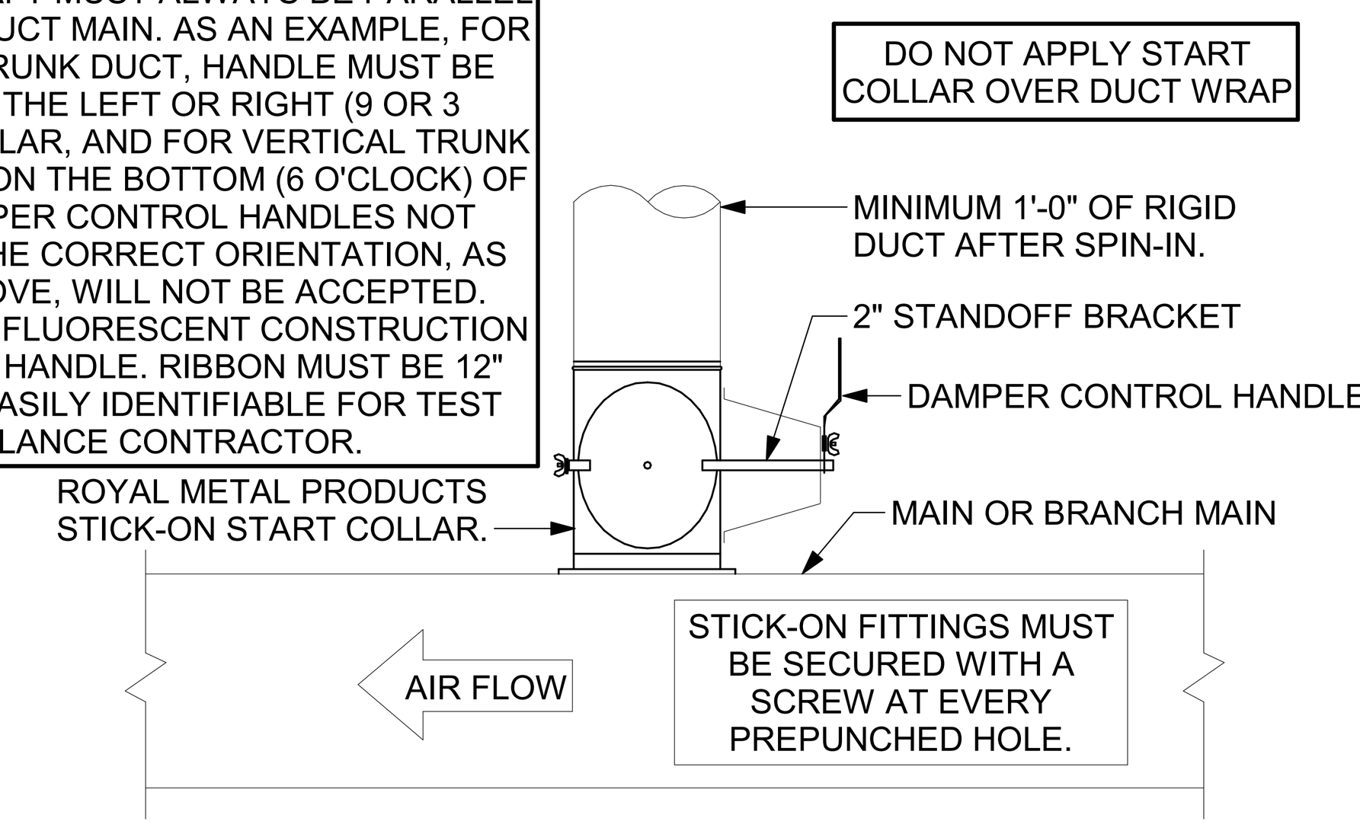
SHEET
SECTIONS

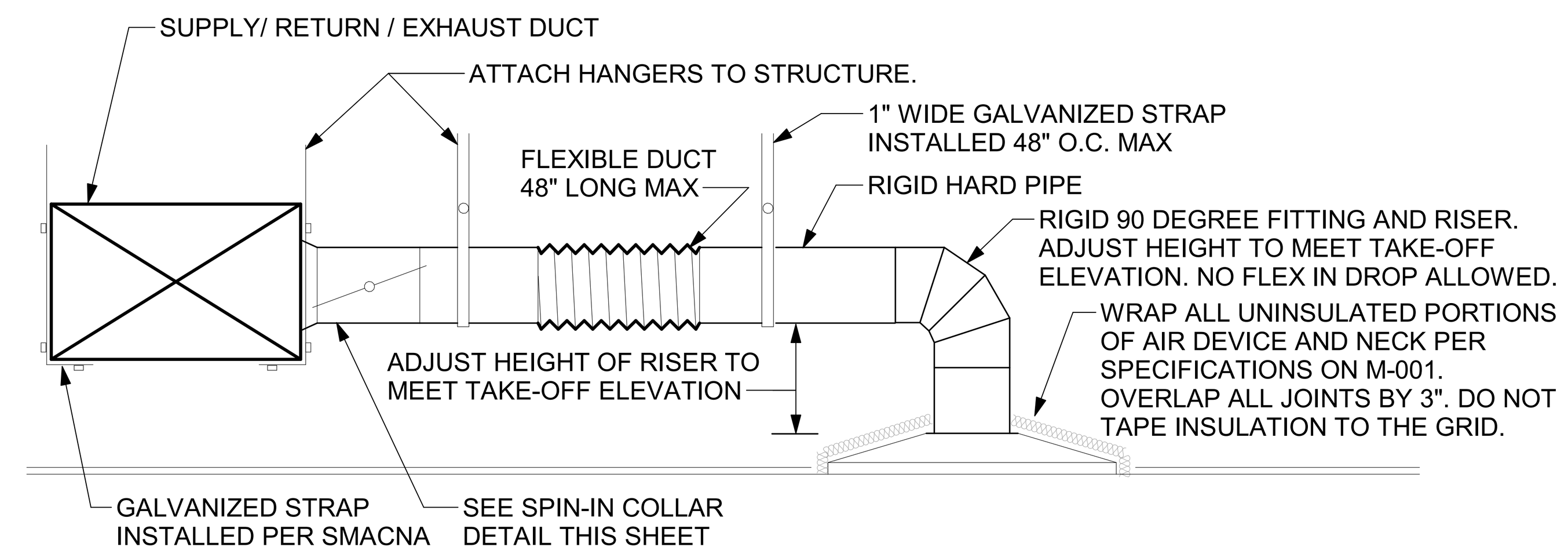
SHEET NUMBER
M-301

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

DAMPER CONTROL HANDLE MUST BE EXPOSED, AND DAMPER SHAFT MUST ALWAYS BE PARALLEL TO AIRFLOW IN DUCT MAIN. AS AN EXAMPLE, FOR HORIZONTAL TRUNK DUCT, HANDLE MUST BE LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) OF COLLAR, AND FOR VERTICAL TRUNK DUCT, LOCATED ON THE BOTTOM (6 O'CLOCK) OF COLLAR. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION, AS SPECIFIED ABOVE, WILL NOT BE ACCEPTED. ATTACH YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.



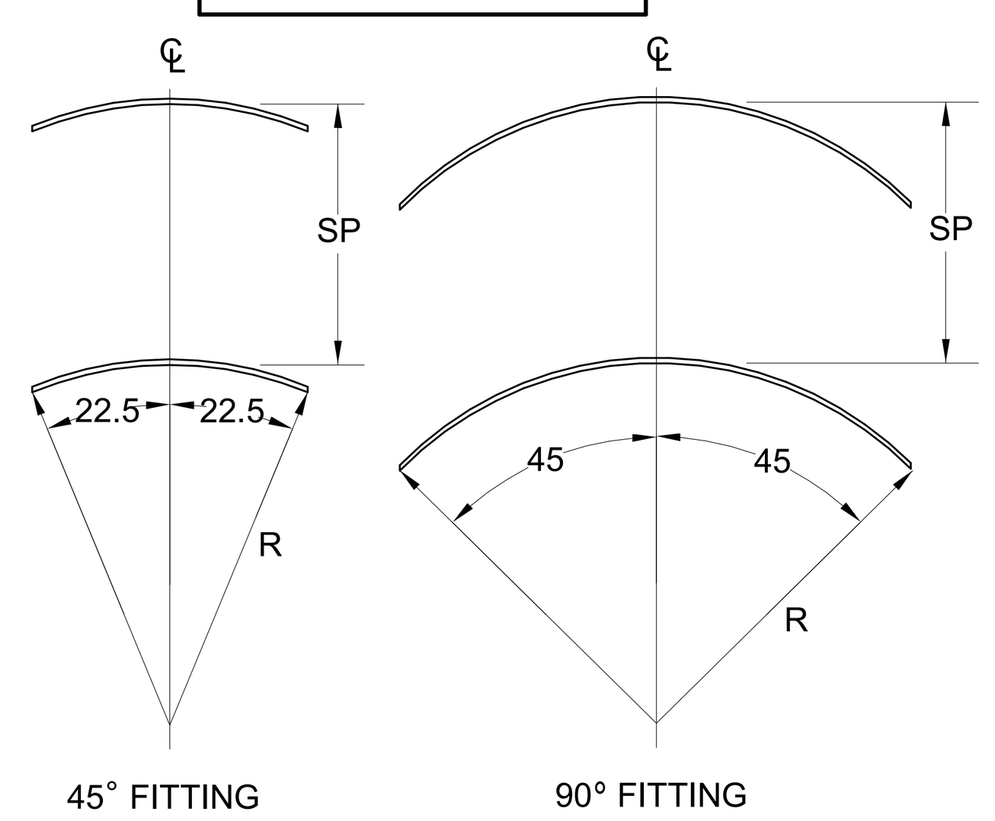
2 START COLLAR
NOT TO SCALE



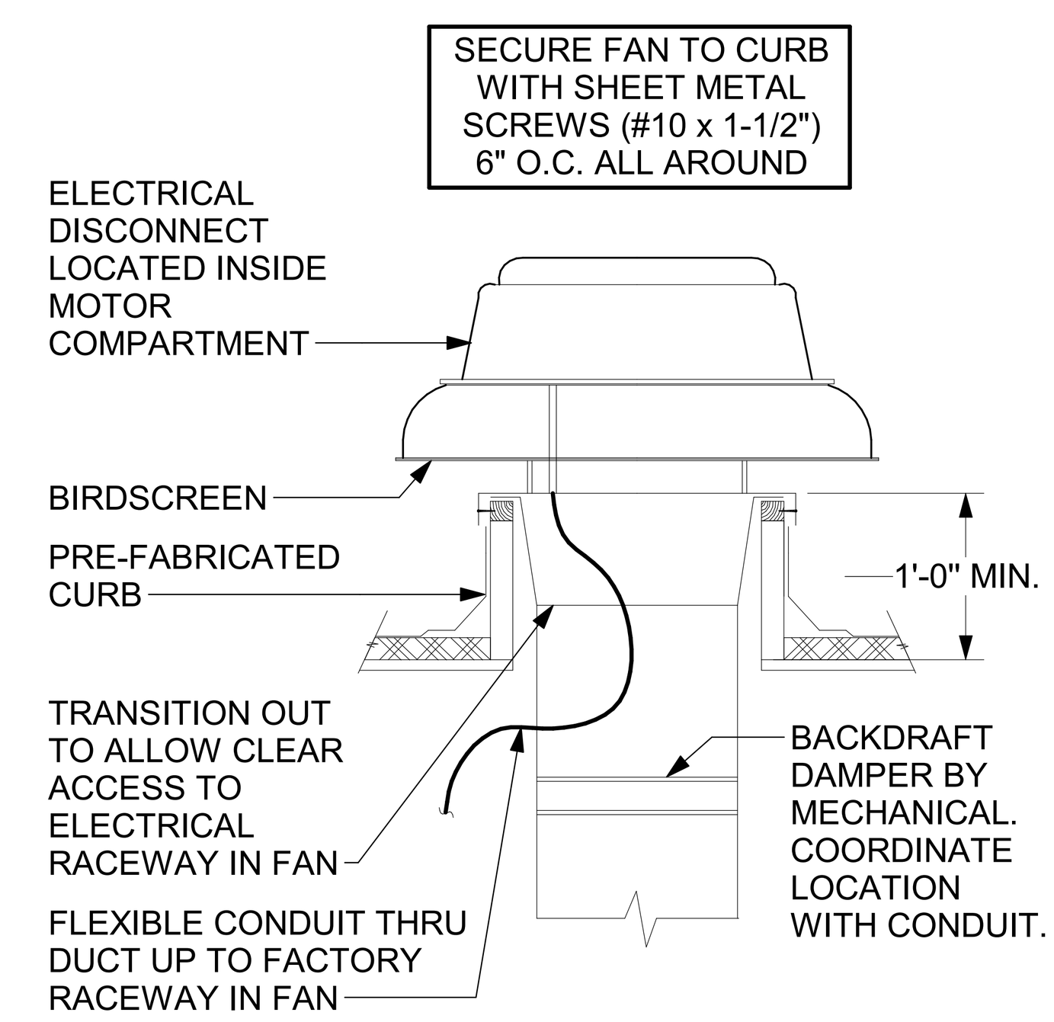
1 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE

TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24

1. NO TRAILING EDGE.
2. SINGLE THICKNESS CONSTRUCTION.



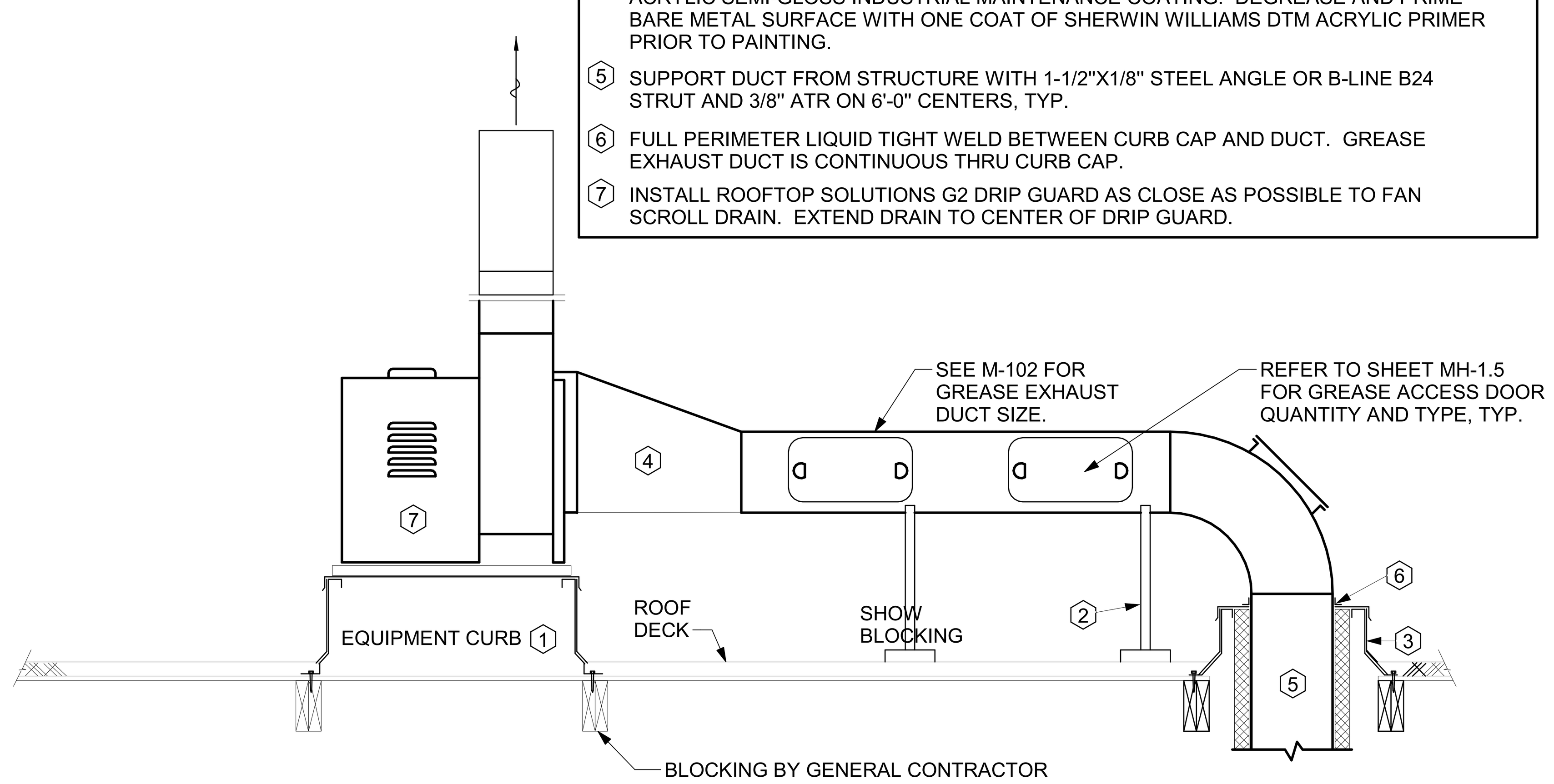
4 TURNING VANES
NOT TO SCALE



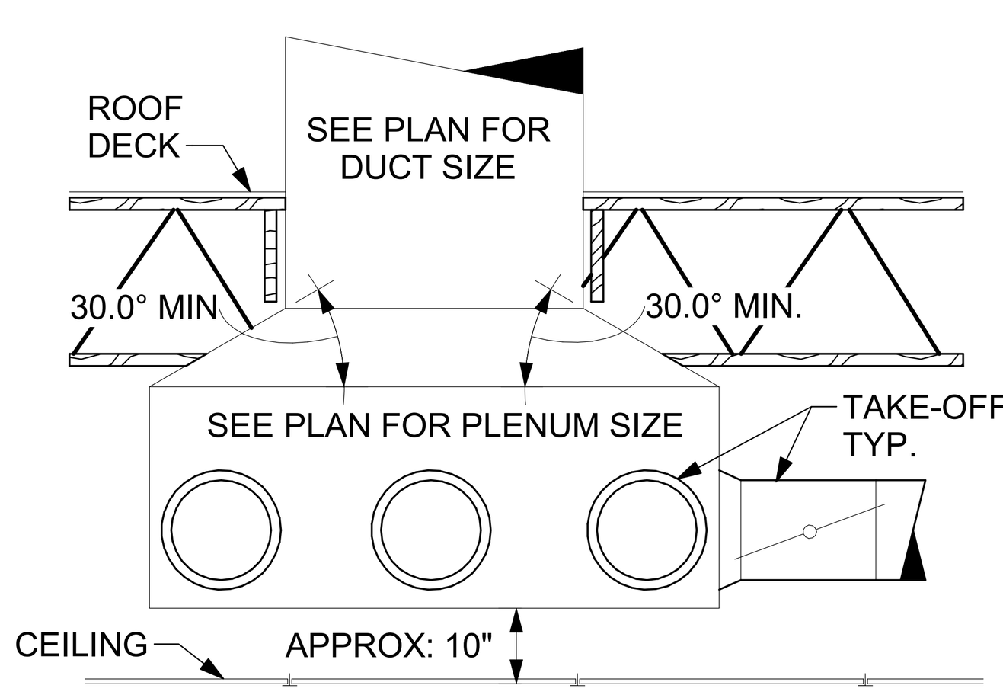
3 RESTROOM EXHAUST FAN
NOT TO SCALE

KEYED NOTES:

1. 22" EQUIPMENT CURB FURNISHED BY HALTON.
2. DUCT SUPPORT SHALL BE PROVIDED EVERY 8', AND WITHIN 12" OF ANY FITTING OR WELD SEAM. SUPPORTS SHALL BE SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY, WIND, AND SEISMIC LOADS PER CODE.
3. 12" HIGH INSULATED CURB FURNISHED BY HALTON. MECHANICAL CONTRACTOR TO PROVIDE MINIMUM 18 GA STAINLESS STEEL CURB CAP AND FLASHING.
4. ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.
5. SUPPORT DUCT FROM STRUCTURE WITH 1-1/2"X1/8" STEEL ANGLE OR B-LINE B24 STRUT AND 3/8" ATR ON 6'-0" CENTERS, TYP.
6. FULL PERIMETER LIQUID TIGHT WELD BETWEEN CURB CAP AND DUCT. GREASE EXHAUST DUCT IS CONTINUOUS THRU CURB CAP.
7. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD AS CLOSE AS POSSIBLE TO FAN SCROLL DRAIN. EXTEND DRAIN TO CENTER OF DRIP GUARD.



6 KITCHEN HOOD EXHAUST FANS
NOT TO SCALE



5 RETURN DROP GEOMETRY
NOT TO SCALE

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STATE OF MISSOURI ... KURZYNSKE ... E-2000152... PROFESSIONAL ENGINEER
11/15/24

CHICK-FIL-A
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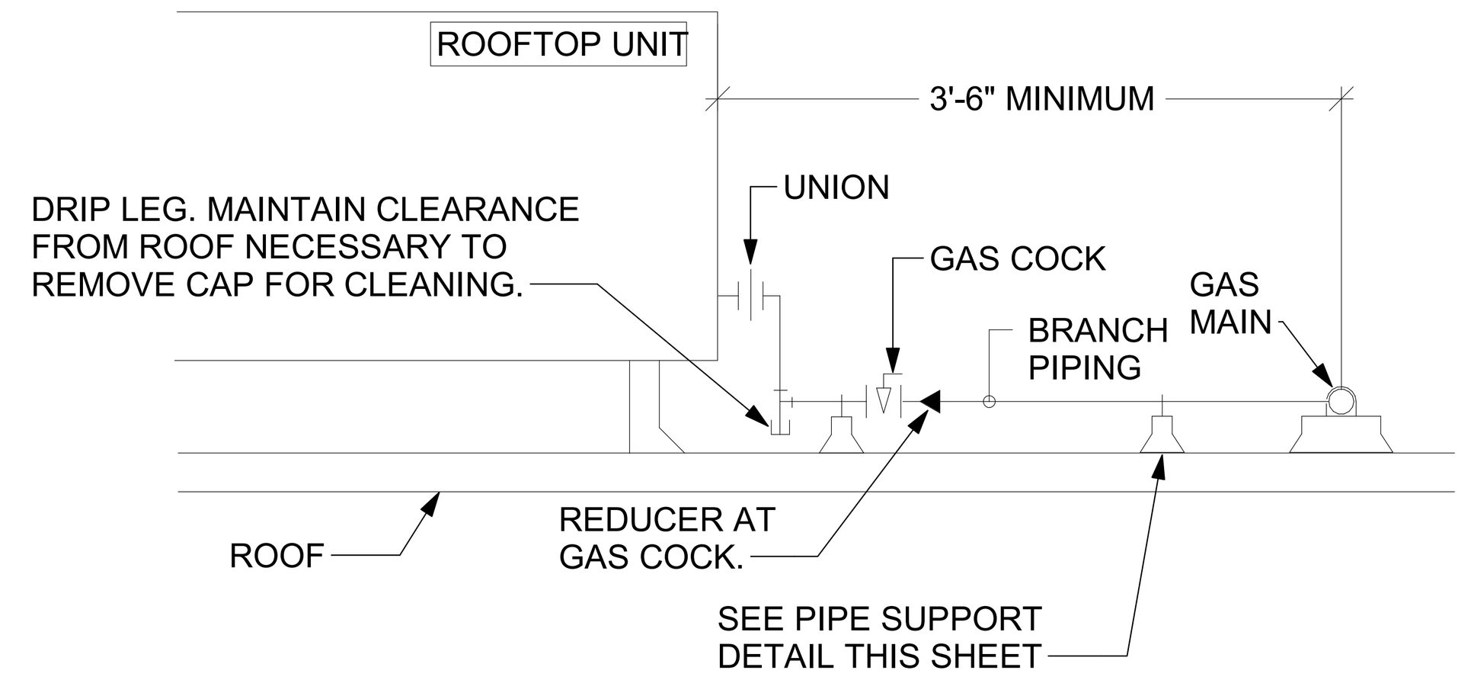
SHEET
DETAILS

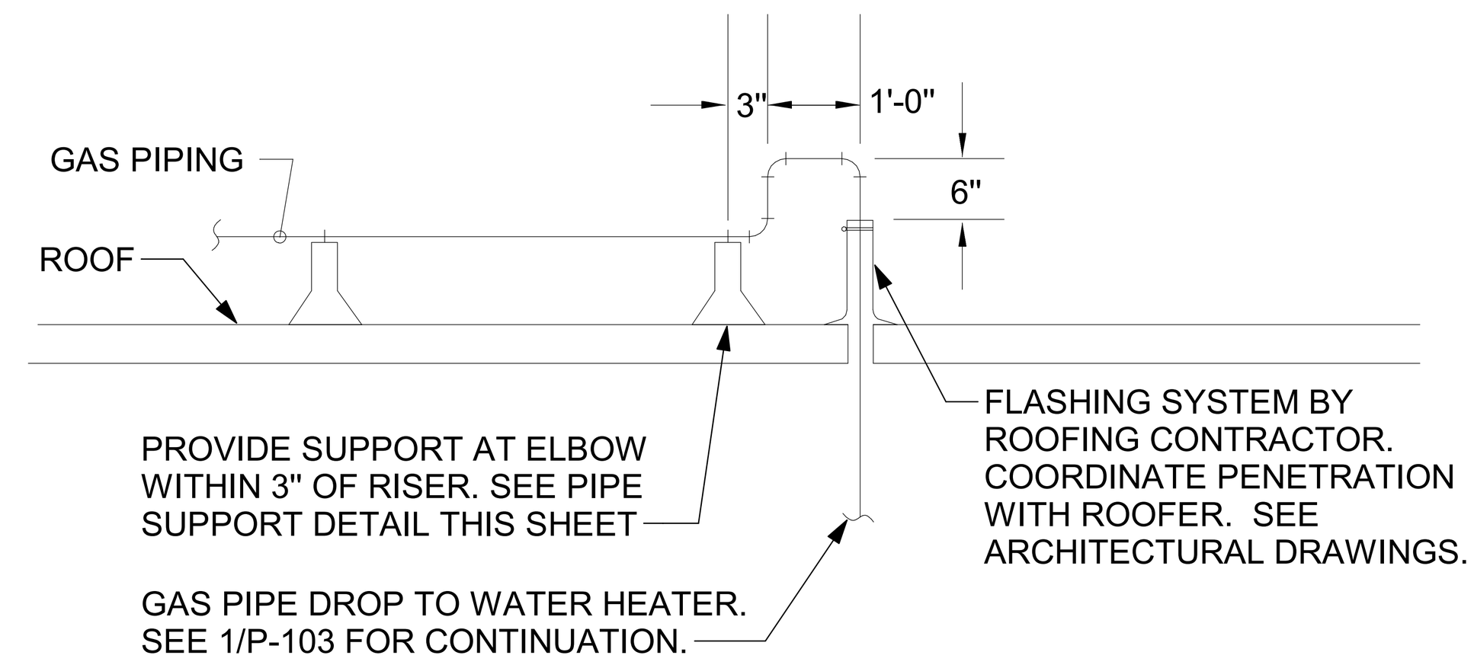
SHEET NUMBER
M-501

NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.

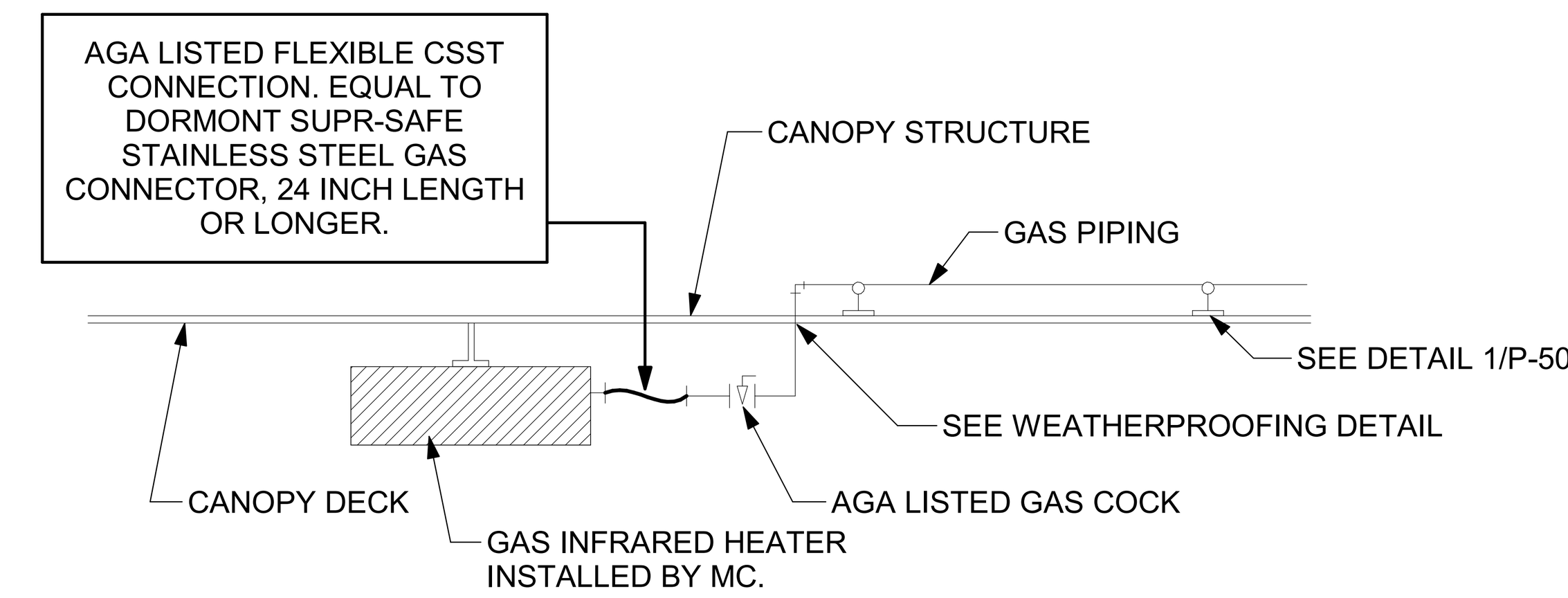


3 GAS PIPING AT RTU
NOT TO SCALE

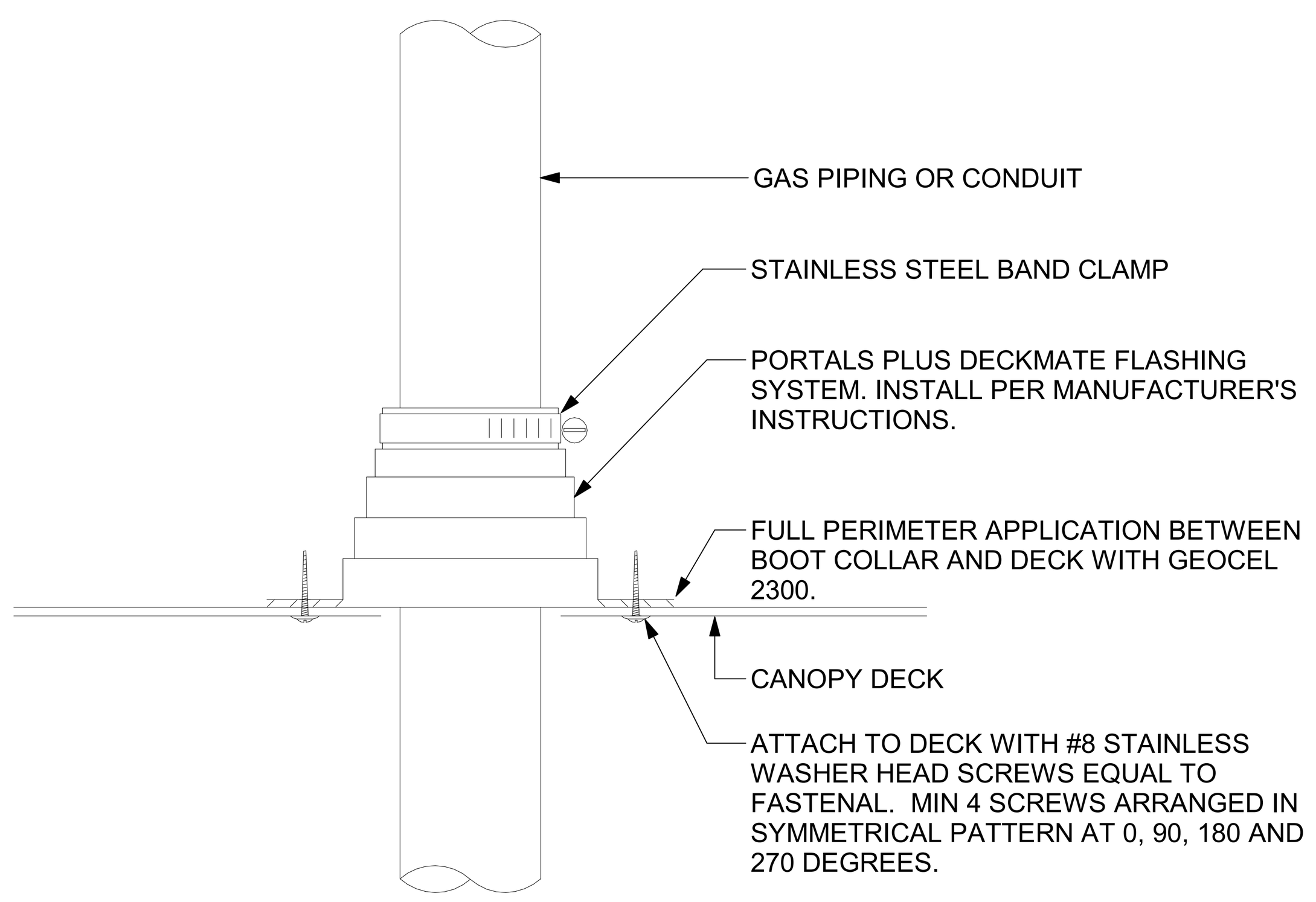
OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.



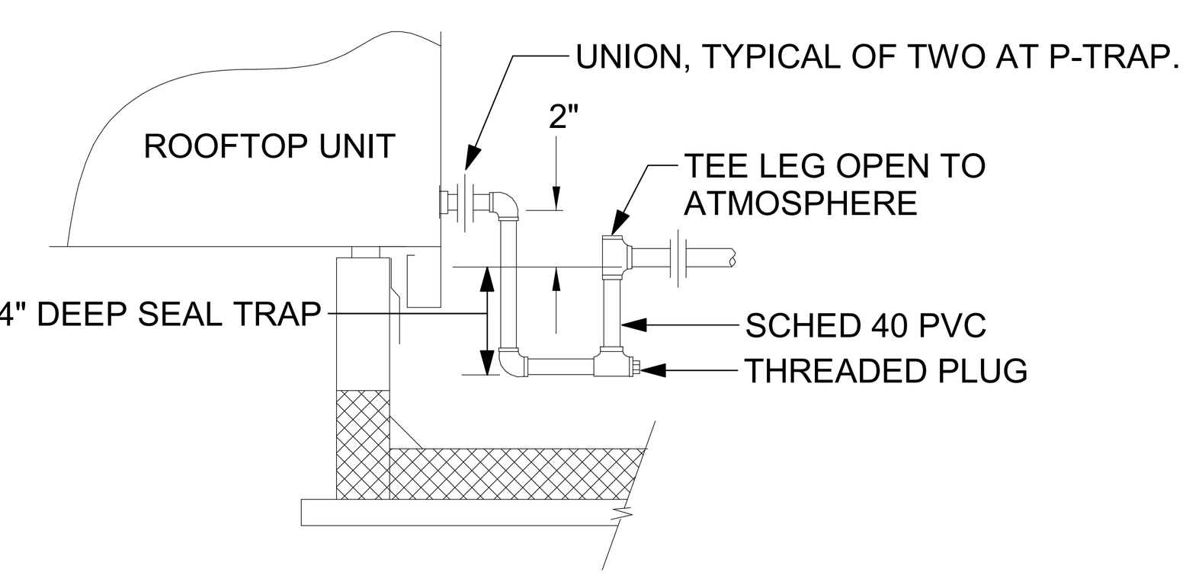
2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

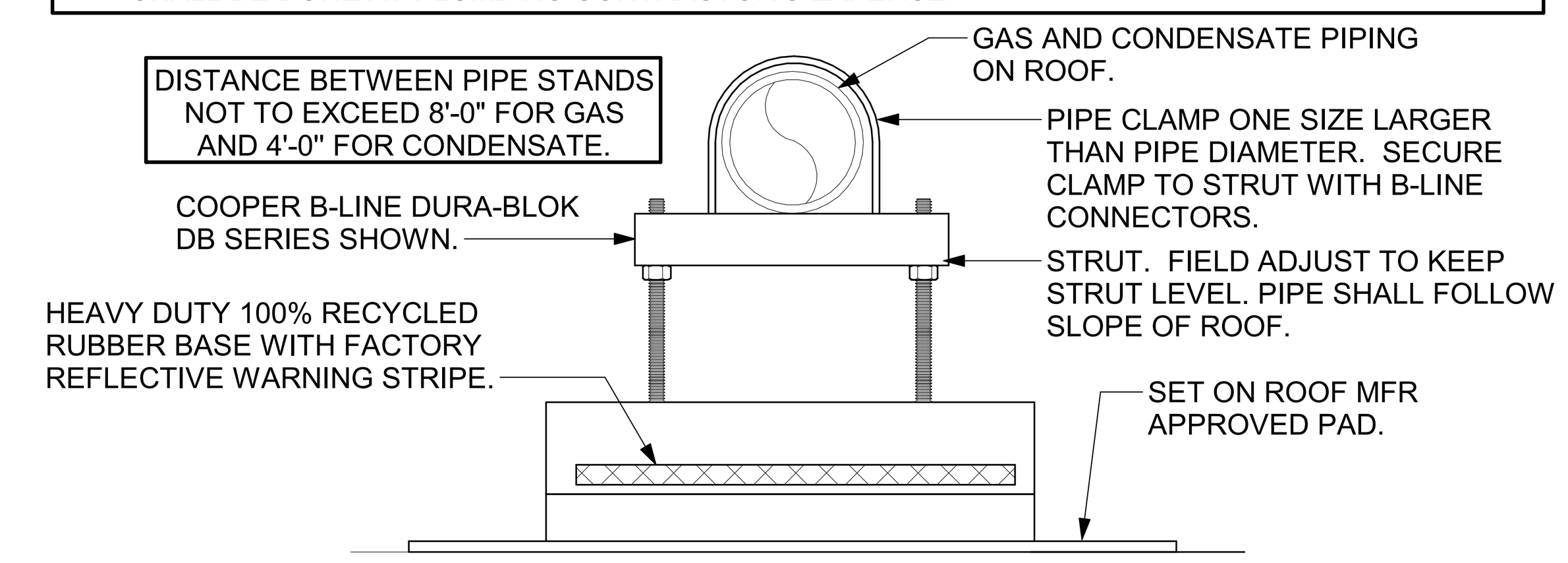


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

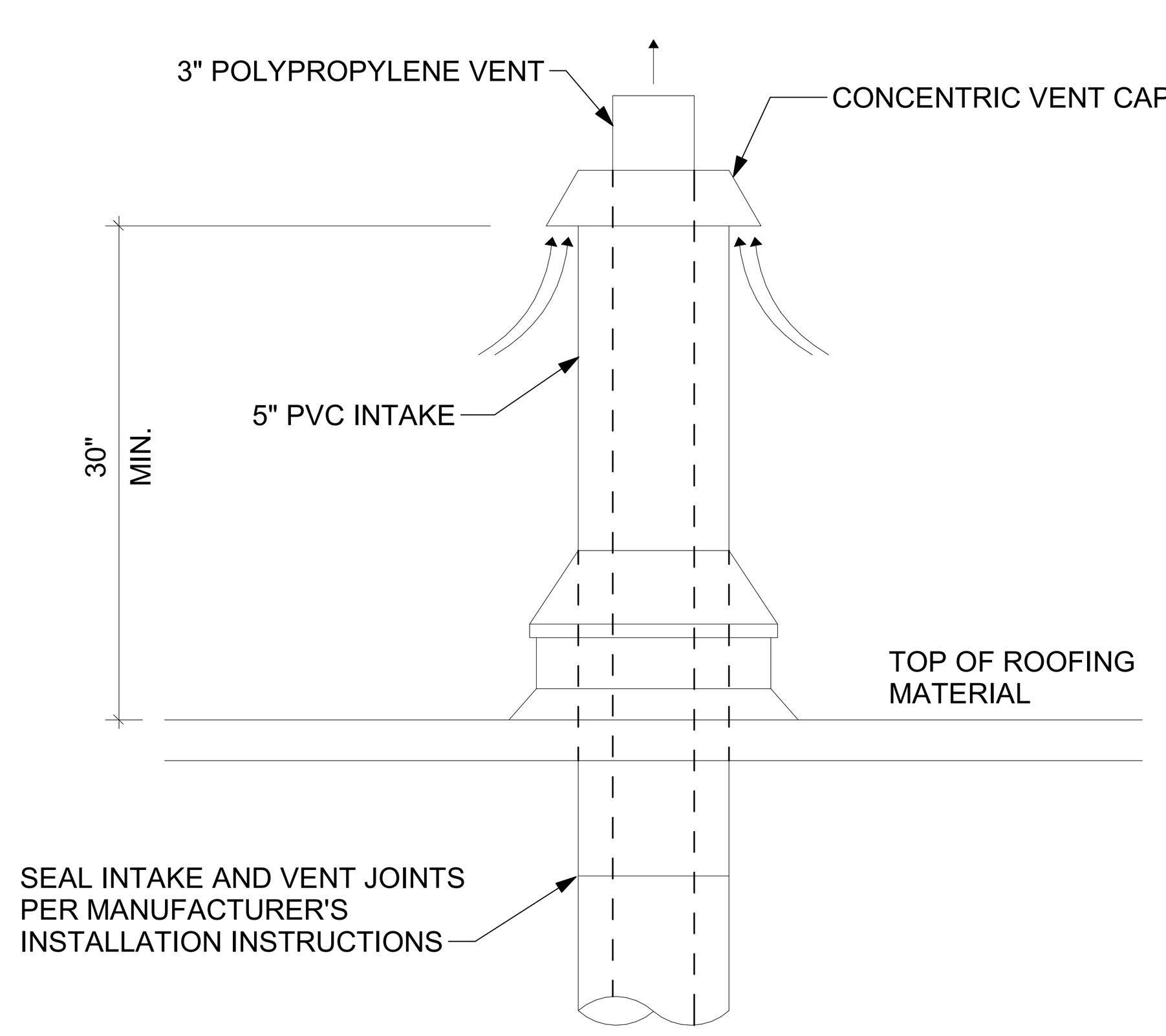


5 CONDENSATE DRAIN PIPING
NOT TO SCALE

NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE



7 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE

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SHEET
DETAILS

SHEET NUMBER
M-502

ROOFTOP UNIT SCHEDULE - TRANE

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY (CFM)	OA (CFM)	HP	ESP (in-wg)	EER	IEER/SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	267.9	189.8	400	324	8,125	1,750	3	0.8	9.8	13	208	3	124	150	YSK300A3S	TRANE	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#2	140.8	100.7	250	202.5	4,375	1,075	4.6	0.8	10.8	14	208	3	73	100	YSK150A3S	TRANE	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#3	178.7	130.4	400	324	5,250	1,275	3	0.8	10.8	14	208	3	85	110	YSK180A3S	TRANE	2,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#4	59.4	42.2	150	121.5	1,750	425	3	0.8	13	16.4	208	3	34	45	YHK060A3S	TRANE	2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES
- MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS
1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
3. 14" HIGH ROOF CURB.
4. SEE DETAIL 2/M-701 FOR SETTING OF CONTROL PARAMETERS BY MC.
5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
6. FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
7. PROVIDE FACTORY HIGH FAULT (65K) SCCR WITH FACTORY CIRCUIT BREAKER.
8. 2" MERV 8 THROW AWAY FILTERS.
9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
10. FACTORY INSTALLED COIL HAIL GUARD.
11. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
13. FACTORY INSTALLED BELT TENSIONER.
14. FACTORY CONFIGURED PHASE LOSS PROTECTION.
15. FACTORY FRESH AIR TEMPERING KIT.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	38"	HALTON	KVL-2 IC	1
HOOD#1R	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	38"	HALTON	KVL-2 IC	1
HOOD#2	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1
HOOD#3	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1

NOTES
- DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS
1. REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. PRELIMINARY HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS MH-1.1 AND MH-1.2.

HEATER SCHEDULE

MARK	HEATIING INPUT ELECTRIC (kW)	HEATIING INPUT GAS (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
EIH#1	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	29	40	BH0420035	BROMIC	1,2,3
IRH	0.00	50.0	48"	13.4"	9.7"	BRACKET	120	1	0	0	WB50-N7-CM	SPACE RAY	5,6,7

NOTES
- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS
1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
3. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
4. NOT USED.
5. STEEL BURNER WITH CERAMIC BURNER TILES.
6. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" LATERALLY FROM THE LONG SIDE OF THE HEATER.
7. STAINLESS STEEL HEAT SHIELDS PROVIDED BY TOM BARROW COMPANY.

FAN SCHEDULE

MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
CF-1	1,900	0.01	1,625	0.1	OUTDOOR CANOPY	120	1	1.1	20	U-18-TE-HD	TPI	20,21,24
EF#1	1,913	0.75	1,331	0.75	HOOD#1	120	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402	0.95	1,199	0.75	HOOD#2 & HOOD#3	120	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16
TF#1	450	0.3	1,144	0.127	TECH CLOSET	120	1	2.5	20	SP-A510-VG	GREENHECK	1,17,18,19

NOTES
- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.

REMARKS
1. FANS SUPPLIED BY HALTON.
2. U.L. 705 LISTED AND LABELED FOR RESTUARANT APPLICATIONS.
3. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
4. 22" HIGH ROOF CURB.
5. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
6. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
7. FACTORY DRAIN CONNECTION.
8. FACTORY BOLTED ACCESS DOOR ON SCROLL.
9. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
10. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
11. INTEGRAL THERMAL OVERLOAD.
12. BIRDSCREEN.
13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
15. 12" HIGH CURB.
16. FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
17. PROVIDE NEMA 1 PREWIRED DISCONNECT.
18. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
19. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER, SET TO 76°F.
20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
21. PROVIDE WITH ON/OFF SWITCH.
22. FAN SHALL BE CONTROLLED WITH THE ROOM LIGHTING. ALL WIRING IS BY THE ELECTRICAL CONTRACTOR.
23. DIRECT DRIVE CEILING FAN. PROVIDE DISCONNECT SWITCH. INTEGRAL BACKDRAFT DAMPER, AND MANUFACTURER'S FAN SPEED CONTROLLER.
24. FAN SUPPLIED BY TOM BARROW.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY (FPM)	HEATING (KW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1,543	2,338	10	0.75	31.4	40	208	3	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5
AD#2	1,197	2,443	10	0.75	31.4	40	208	3	SERVING	CHA-1-36E	POWERED AIRE	1,2,3,4
AD#3	3,867	4,218	0	0.75	8	20	120	1	REAR DOOR	RBT-1-48	POWERED AIRE	4

NOTES
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M-702.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	ENTIRE BUILDING	VARIES	24"x24"	LAY-IN	1,7
B	VARITHERM PLAQUE DIFFUSER	OFFICE	8"	24"x24"	LAY-IN	1,7,8
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	19"x19"	BEVELLED	1,3,5,6
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/ KITCHEN	VARIES	16"x16"	LAY-IN	1,2,3,5,6
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	16"x10"	18"x12"	SURFACE	1
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ OFFICE/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELLED	1,3,4,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS/ ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	14"x14"	16"x16"	SURFACE	1

NOTES
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS
1. STANDARD OFF WHITE FINISH.
2. PROVIDE PRICE MODEL AMF SURFACE MOUNT FRAME.
3. SEE DRAWING M-101 FOR THROW.
4. FACTORY PROVIDED MODEL VCS3 NECK DAMPER AND FIELD INSTALLED RECTANGULAR TO ROUND TRANSITION.
5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-501.
7. FACTORY INSULATED R-6 BACKPAN.
8. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.

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STATE OF MISSOURI
MARK L. KURZYNSKE
E-2000153961
REGISTERED PROFESSIONAL ENGINEER
11/15/24

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
DRAWN BY BLM

SHEET
HVAC EQUIPMENT SCHEDULES - TRANE

SHEET NUMBER
M-601

VENTILATION SCHEDULE

General			Ventilation												Exhaust						Served by	
			People				Area								Area		Toilet					
Room #	Room Name	Area Az ft2	Occupant Density People/1,000 ft2	Occupants People Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Kitchen	1,245	20	25	7.5	187.5	0.12	149	337	0.8	422	7,700	0.05	1,658	1	872	-	-	-	3,315	AC#1T	EF-1 / EF-2
2	Scullery	126	15	2	7.5	15	0.18	23	38	0.8	48	425	0.11	92	-	-	-	-	-	-	AC#1T	-

Total Area	1,371
Total Vbz	375
Total Supply Airflow	8,125
Actual Outdoor Airflow	1,750
Diversity (D)	1.00
Maximum Zp	0.11
Uncorrected Outdoor Air Intake (Vou)	375
System Ventilation Efficiency (Ev)	1.00
Required Outdoor Air Intake (CFM)	375

VENTILATION SCHEDULE

General			Ventilation												Exhaust						Served by	
			People				Area								Area		Toilet					
Room #	Room Name	Area Az ft2	Occupant Density People/1,000 ft2	Occupants People Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
5	Meal Fulfillment Area	543	15	9	7.5	67.5	0.18	98	165	0.8	207	4,375	0.05	1,075	-	-	-	-	-	-	AC#2T	-

Total Area	543
Total Vbz	165
Total Supply Airflow	4,375
Actual Outdoor Airflow	1,075
Diversity (D)	1.00
Maximum Zp	0.04
Uncorrected Outdoor Air Intake (Vou)	165
System Ventilation Efficiency (Ev)	1.00
Required Outdoor Air Intake (CFM)	165

VENTILATION SCHEDULE

General			Ventilation												Exhaust						Served by	
			People				Area								Area		Toilet					
Room #	Room Name	Area Az ft2	Occupant Density People/1,000 ft2	Occupants People Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Dining	880	100	88	7.5	660	0.18	158	818	0.8	1023	2940	0.34	714	-	-	-	-	-	-	AC#3T	-
2	Serving	477	15	7	7.5	53	0.12	57	110	0.8	138	980	0.14	238	-	-	-	-	-	-	AC#3T	-
3	Men's RR	173	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	100	150	AC#3T	EF-3
4	Women's RR	225	-	-	-	-	-	-	-	0.8	-	135	-	33	-	-	Continuous	50	100	150	AC#3T	EF-3
5	RR Vestibule	115	-	-	-	-	0.06	7	7	0.8	9	115	0.08	28	-	-	-	-	-	-	AC#3T	-
6	Entry Vestibule	64	-	-	-	-	0.06	4	4	0.8	5	300	0.01	73	-	-	-	-	-	-	AC#3T	-
7	Play Area	166	7	1	20	20	0.18	30	50	0.8	63	680	0.09	165	-	-	-	-	-	-	AC#3T	

Total Area	2,082
Total Vbz	989
Total Supply Airflow	5,250
Actual Outdoor Airflow	1,275
Diversity (D)	1.00
Maximum Zp	0.34
Uncorrected Outdoor Air Intake (Vou)	989
System Ventilation Efficiency (Ev)	0.80
Required Outdoor Air Intake (CFM)	1,236

VENTILATION SCHEDULE

General			Ventilation												Exhaust						Served by	
			People				Area								Area		Toilet					
Room #	Room Name	Area Az ft2	Occupant Density People/1,000 ft2	Occupants People Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM	Supply	Exhaust
1	Team Member Room	189	50	10	5	50	0.06	11	61	0.8	76	650	0.12	158	-	-	-	-	-	-	AC#4T	-
2	Riser Room	41	-	-	-	-	0.12	5	5	0.8	7	150	0.05	36	-	-	-	-	-	-	AC#4T	-
3	Service / Beverage	204	-	-	-	-	0.12	25	25	0.8	31	650	0.05	158	-	-	-	-	-	-	AC#4T	-
4	Office	68	5	1	5	5	0.06	4	9	0.8	12	300	0.04	73	-	-	-	-	-	-	AC#4T	-

Total Area	502
Total Vbz	100
Total Supply Airflow	1,750
Actual Outdoor Airflow	425
Diversity (D)	1.00
Maximum Zp	0.12
Uncorrected Outdoor Air Intake (Vou)	100
System Ventilation Efficiency (Ev)	1.00
Required Outdoor Air Intake (CFM)	100

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11/15/24

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
DRAWN BY BLM

SHEET
HVAC VENTILATION SCHEDULES

SHEET NUMBER
M-602

Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR05248_Hwy 50 & SR 291 (MO) FSU_K&A_MEC.rvt
11/14/2024 9:18:26 AM
30-LSR-05248-M-602-HVAC VENTILATION SCHEDULES

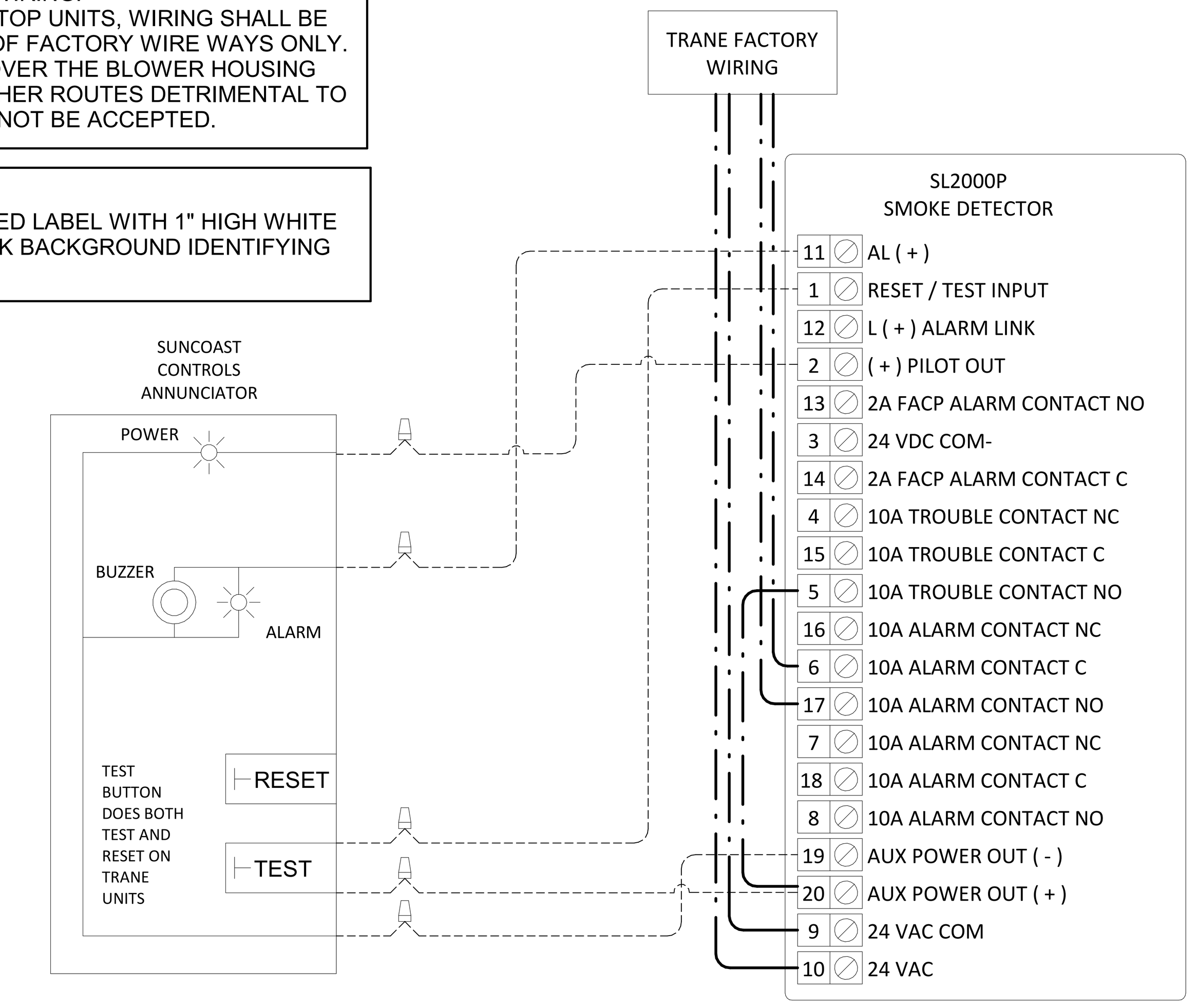
PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINENT. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

FIELD INSTALLED WIRING:
WITHIN THE ROOFTOP UNITS, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIRE WAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO WIRING LIFE WILL NOT BE ACCEPTED.

LABELING:
PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

LEGEND

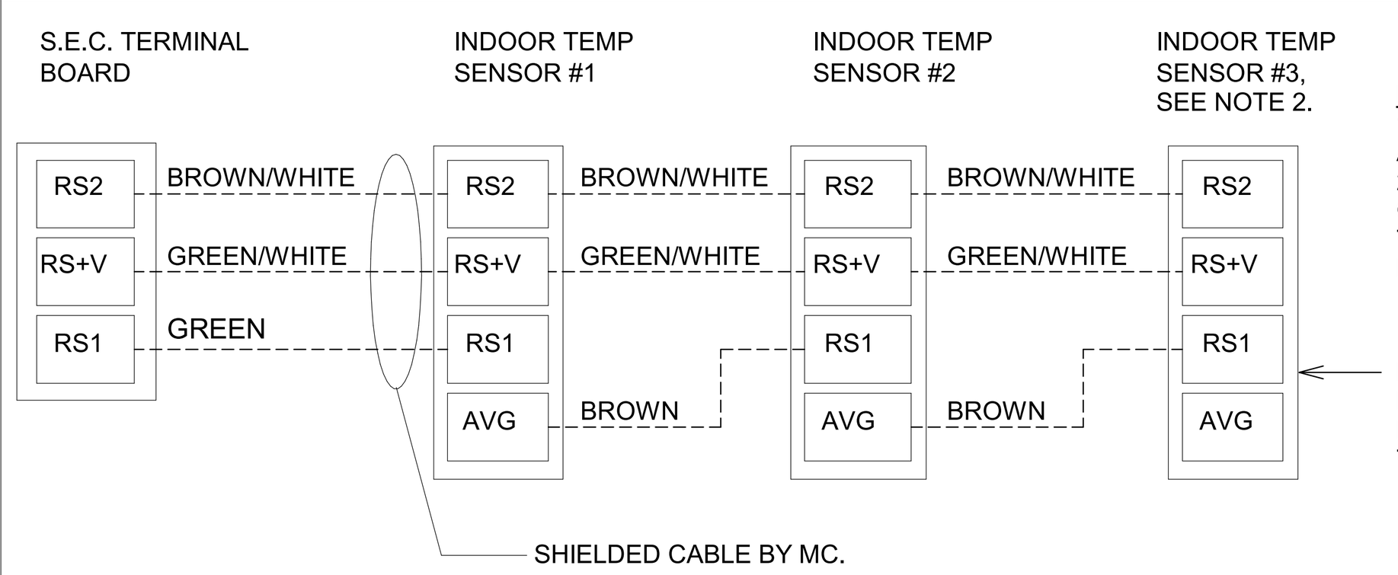
- - - - - -	18 AWG MIN WIRING BY MECH CONTRACTOR
———	FACTORY ANNUNCIATOR DETECTOR WIRING
— · —	FACTORY TRANE WIRING



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - TRANE

NOT TO SCALE

AVERAGING SENSORS (WHERE SHOWN ON PLANS)



NOTES:
1. SEE DWG M-101 FOR LOCATION AND ARRANGEMENT OF SENSORS.
2. MULTIPLE AVERAGING SENSORS COUNT AS ONE SENSOR. SEE NETWORK THERMOSTAT NT-URS INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR, TYP.

KEYED NOTES:

1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.

2. WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE: BELDEN 8760 OR EQUAL .

3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CABLE PENETRATION AT ALL WALL LOCATIONS.

4. FACTORY WIRING IN SUNCOAST T-500 PANEL NOT SHOWN FOR CLARITY. SEE SUNCOAST WIRING DIAGRAM FOR ADDITIONAL INFORMATION.

5. SY700 INTERFACE TO SET RELATIVE HUMIDITY. SET TO 60%.

6. CAT 5/5E CABLE BY M.C. NO SUBSTITUTIONS.

NOTES:

1. PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINENT. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

2. SEE DETAILS IN THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.

3. SET ALL THERMOSTATS TO AUTO CHANGEOVER.

4. PROVIDE PLASTIC ENGRAVABLE AT ALL SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKROUND (E.G., "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR"). PLACE LABELS ON WALL DIRECTLY ABOVE OR BELOW THE SENSOR. DO NOT APPLY LABEL DIRECTLY TO DEVICE.

LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
1	KEY NOTE REFERENCE
MC	MECHANICAL CONTRACTOR
AC	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTIN STORE SWITCH IN "STORE OCCUPIED" POSITION
AN	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DEENERGIZED WHEN ANSUL FIR SUPPRESSION SYSTEM IS ACTIVATED AS NOTED
- - - - - - -	ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS
— — —	LOW VOLTAGE WIRING BY S.E.C.
———	LINE VOLTAGE BY ELECTRICAIN OR S.E.C.

FRESH AIR TEMPERING KEYED NOTES:

1. INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.

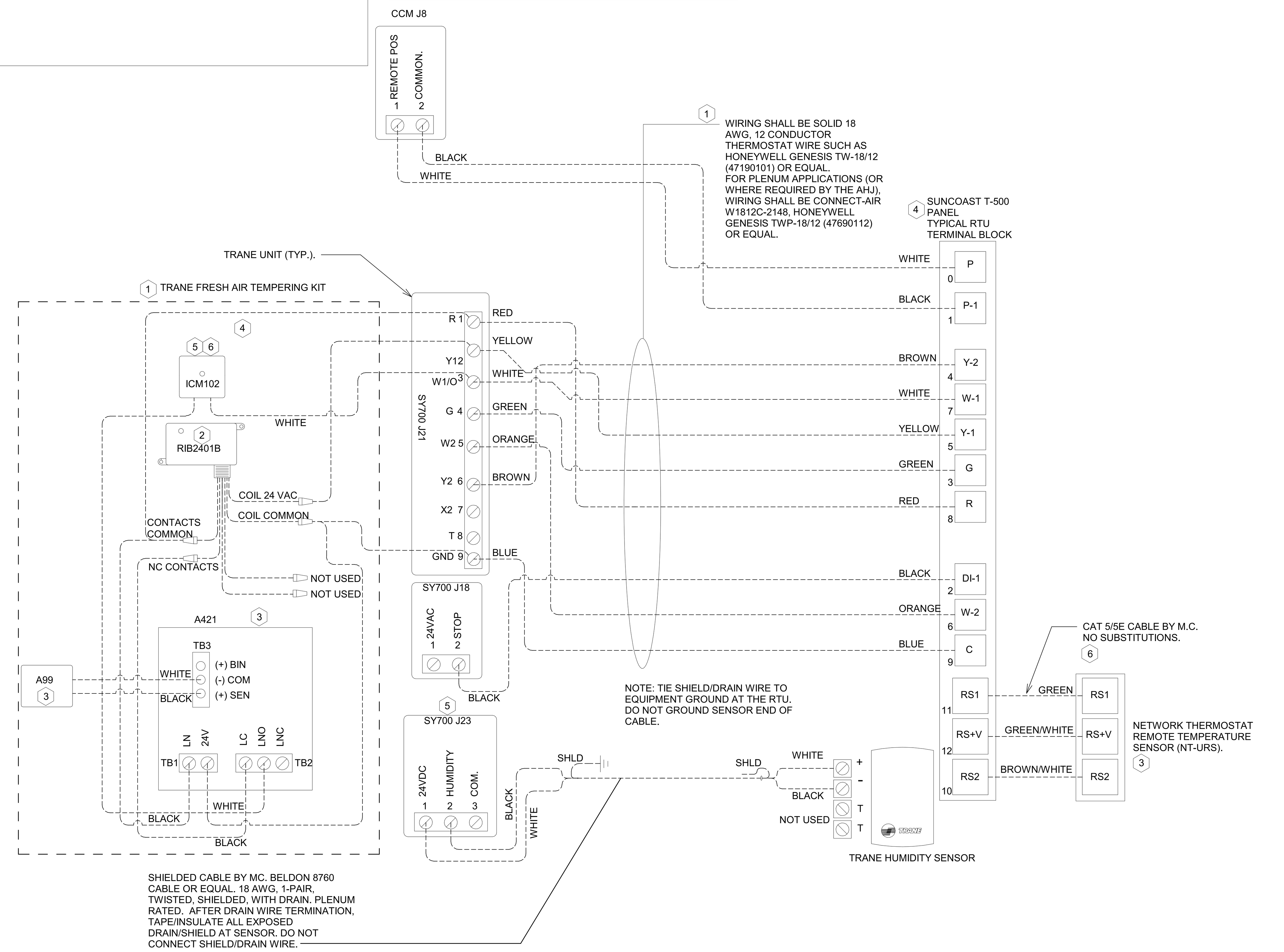
2. RIB2401B SPDT RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.

3. JCI A421 TEMPERATURE CONTROLLER FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN RTU CONTROL CABINET. CONTRACTOR SHALL INSTALL TRANE FURNISHED JCI A99 SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT WITH TE6001-1 SENSOR DUCT MOUNTING PLATE FURNISHED BY TRANE. DO NOT RUN WIRING INSIDE DUCTWORK. SET A421 CONTROLLER PARAMETERS TO THE FOLLOWING:
- RELAY ON TEMPERATURE: 58°F
- RELAY OFF TEMPERATURE: 80°F

4. 18 AWG MIN. LOW VOLTAGE WIRING BY MC.

5. ICM102 TIME DELAY RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF ROOFTOP UNIT.

6. SET TIME DELAY RELAY (ICM102) TO 2 MINUTES.



2 ROOFTOP UNIT CONTROL WIRING - TRANE

NOT TO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

11/15/24

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
DRAWN BY BLM

SHEET
CONTROL WIRING DIAGRAMS - TRANE

SHEET NUMBER
M-701

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske
& Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

11/15/24

CHICK-FIL-A
Oldham Village FSU

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Lee's Summit, MO 64081

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NO.	DATE	DESCRIPTION

AD#2 DOES NOT INCLUDE BI-PARTING DOOR MICROSWITCH. AD#2 SHALL BE PROVIDED WITH FACTORY MAGNETIC DOOR CONTACT SWITCH.

LEGEND
- 18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O.
- 22 AWG LOW VOLTAGE WIRING PROVIDED BY TORMAX. WIRING INSTALLED BY MC.

2 AIR CURTAIN WIRING DIAGRAM
NOT TO SCALE

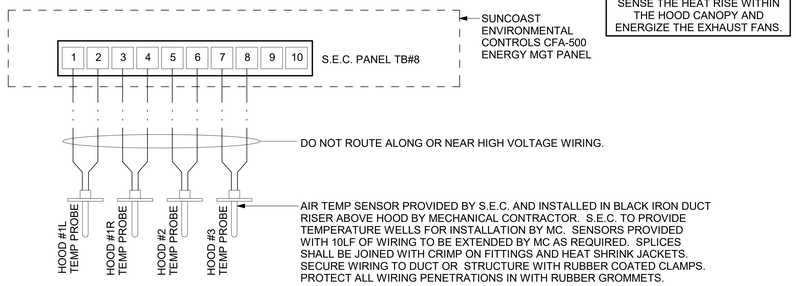
LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL
M.C.	MECHANICAL CONTRACTOR
— · · —	18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING BY MC, U.N.O.

GENERAL NOTES
1. THE SUNCOAST H.E.S. SYSTEM HAS BEEN INTEGRATED INTO THE SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL.

S.E.C. H.E.S. OPERATION

IN THE EVENT THAT ANY COOKING EQUIPMENT ITEM BENEATH ANY HOOD IS STARTED WITHOUT THE 'STORE SWITCH' BEING IN THE 'OCCUPIED' POSITION, THE H.E.S. CONTROLLER WILL SENSE THE HEAT RISE WITHIN THE HOOD CANOPY AND ENERGIZE THE EXHAUST FANS.

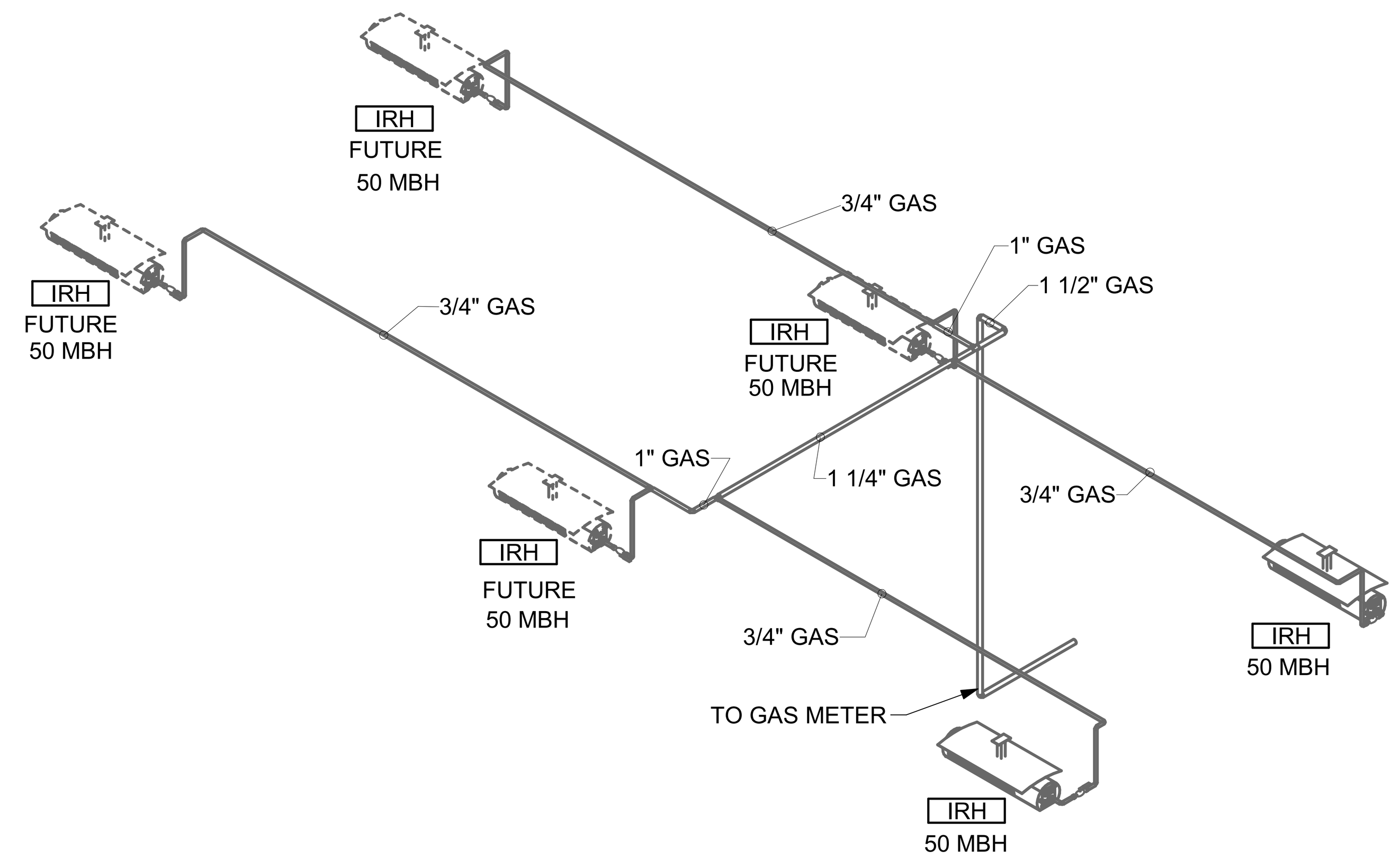


1 HOOD FAN/EQUIPMENT INTERLOCK - 3 Hood (4 Collars) - CFA500 Integrated
1/4" = 1'-0"

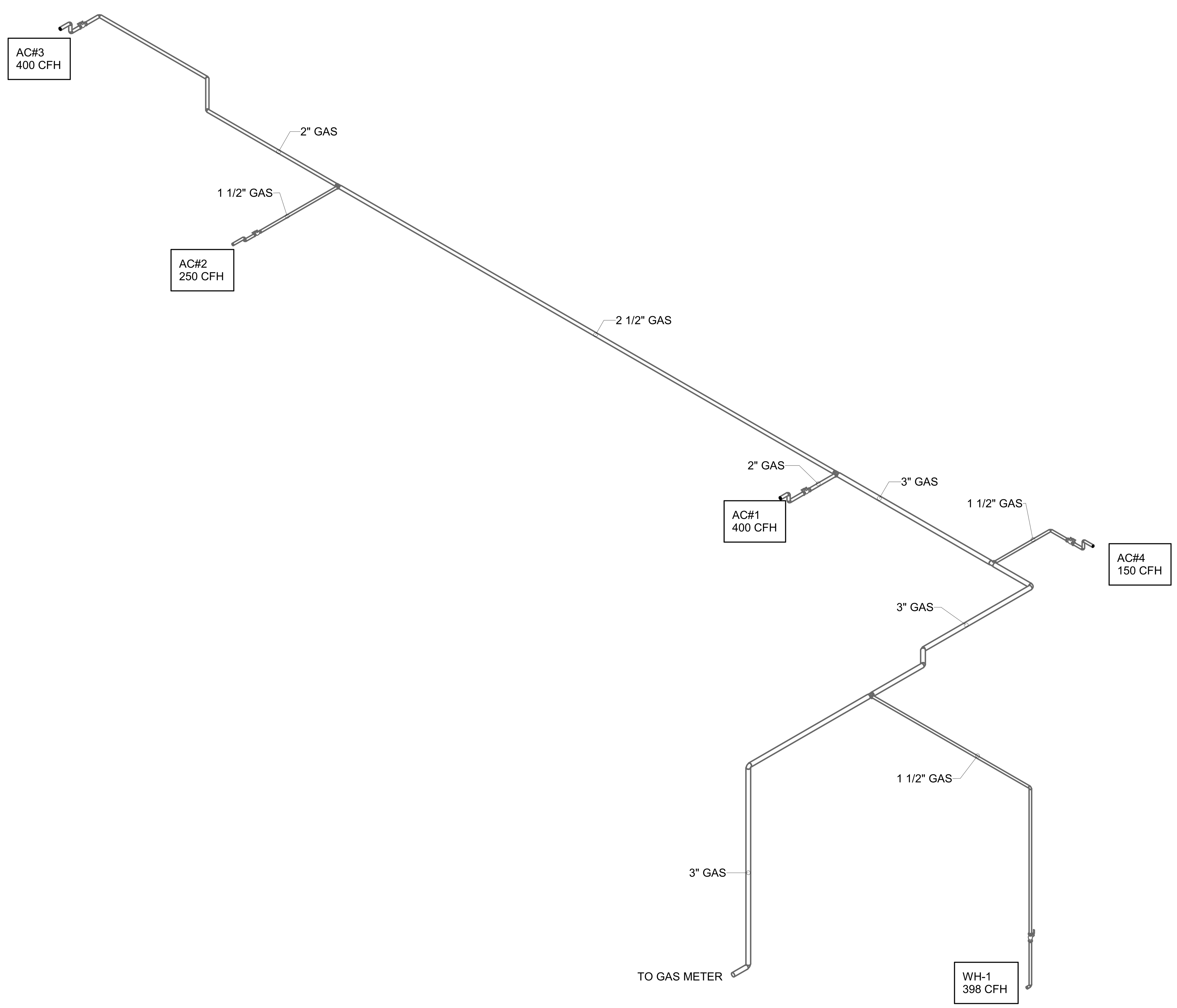
CONSULTANT PROJECT #	24137.CD.S
DATE	11/15/2024
DRAWN BY	BLM

SHEET
CONTROL WIRING DIAGRAMS

SHEET NUMBER
M-702



2 ORDER CANOPY PIPING ISOMETRIC - TRANE



1 GAS PIPING ISOMETRIC - TRANE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske
& Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

11/15/24

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 23.09
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/15/2024
DRAWN BY BLM

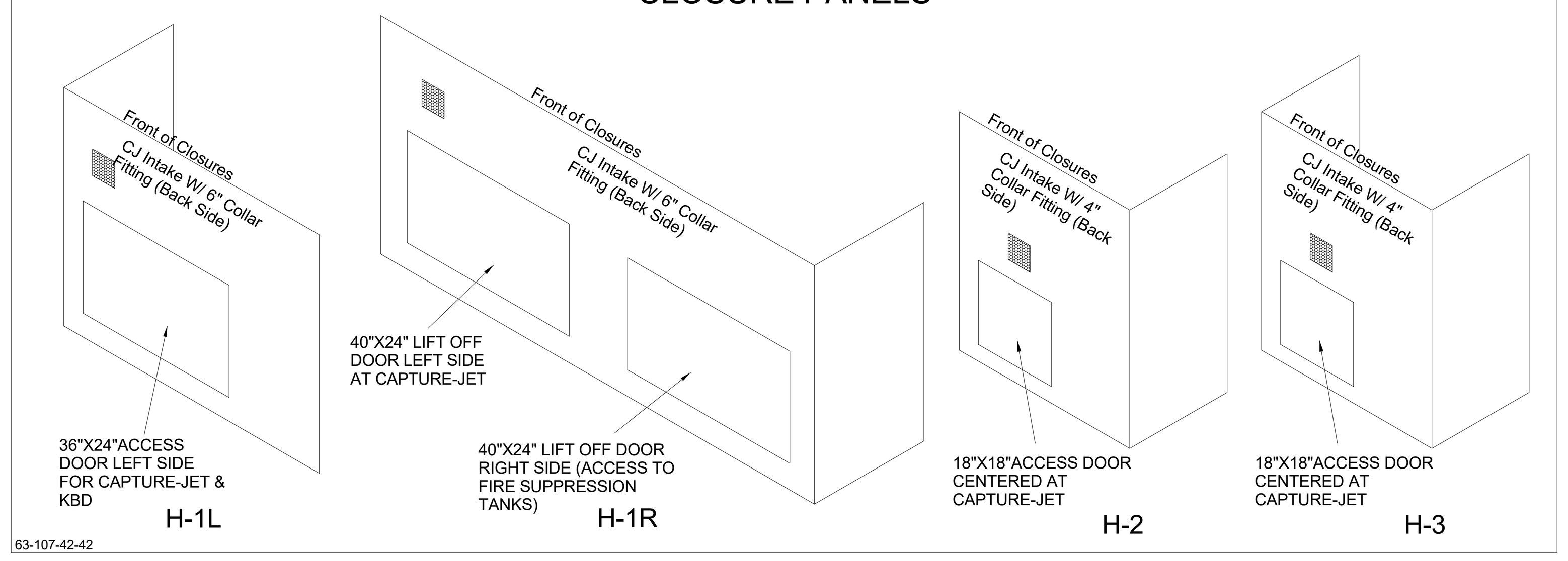
SHEET
GAS PIPING ISOMETRICS - TRANE

SHEET NUMBER
M-901

HOOD MODEL	HOOD NUMBER	EXHAUST COLLAR QTY	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	EXHAUST AIR INFORMATION CFM	EXHAUST AIR INFORMATION TAB	EXHAUST AIR INFORMATION SP	CAPTURE AIR INFORMATION CFM	CAPTURE AIR INFORMATION SP	S.S. KSA FILTERS FULL	S.S. KSA FILTERS HALF	LED LIGHTS	CEILING CLOSURES QTY	CEILING CLOSURES CLOSURE HEIGHT	CEILING CLOSURES CEILING HEIGHT	HOOD WEIGHT	KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL
KVL-2-IC	H-1L	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2	51"	122"	394 LBS	*	1959	EXPOSED SURFACES 18 GA. S.S.
KVL-2-IC	H-1R	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2			669 LBS	*	3365	
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2			245 LBS	*	1291	
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3			245 LBS	*	1291	

FOR REFERENCE ONLY

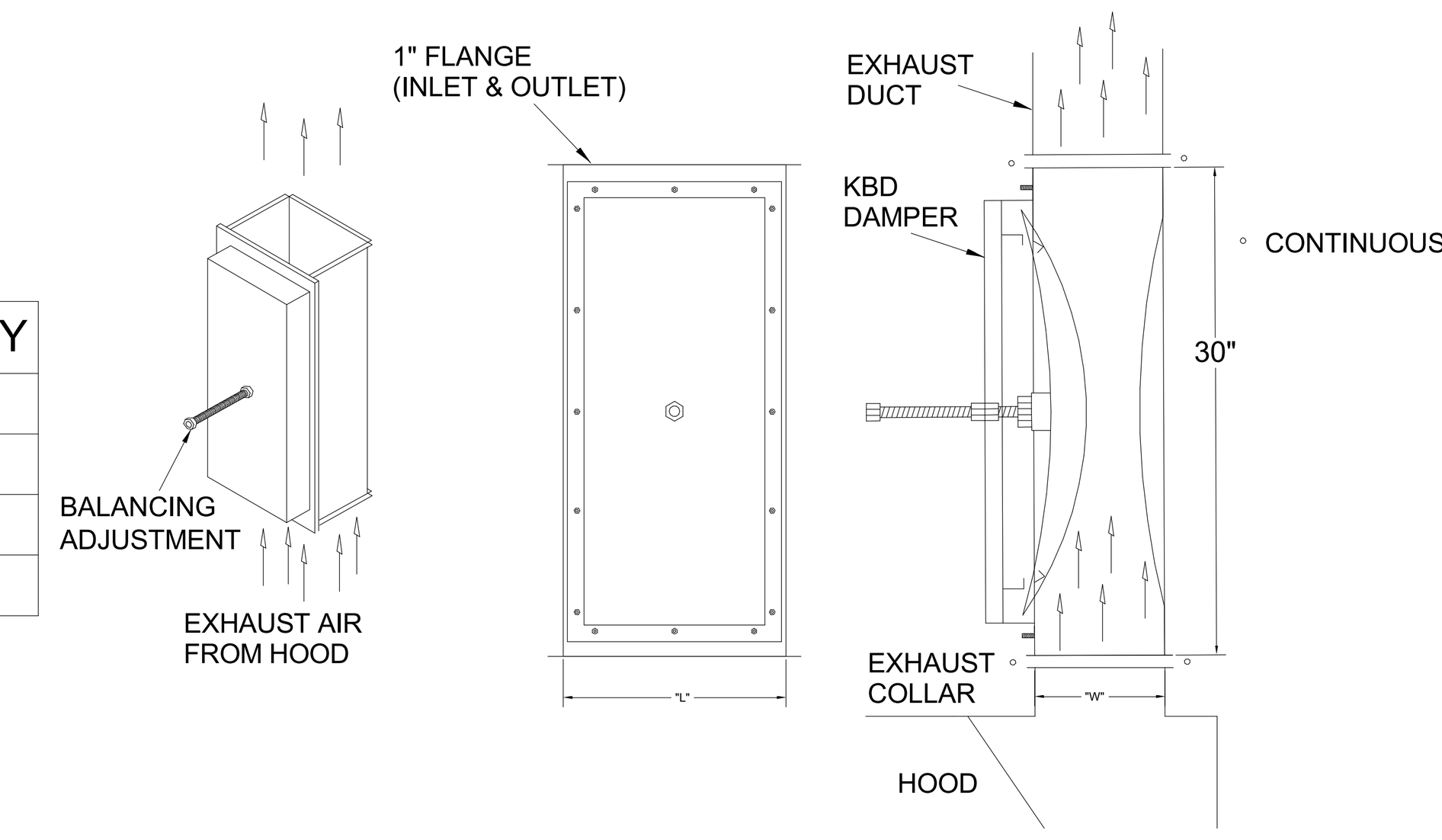
CLOSURE PANELS



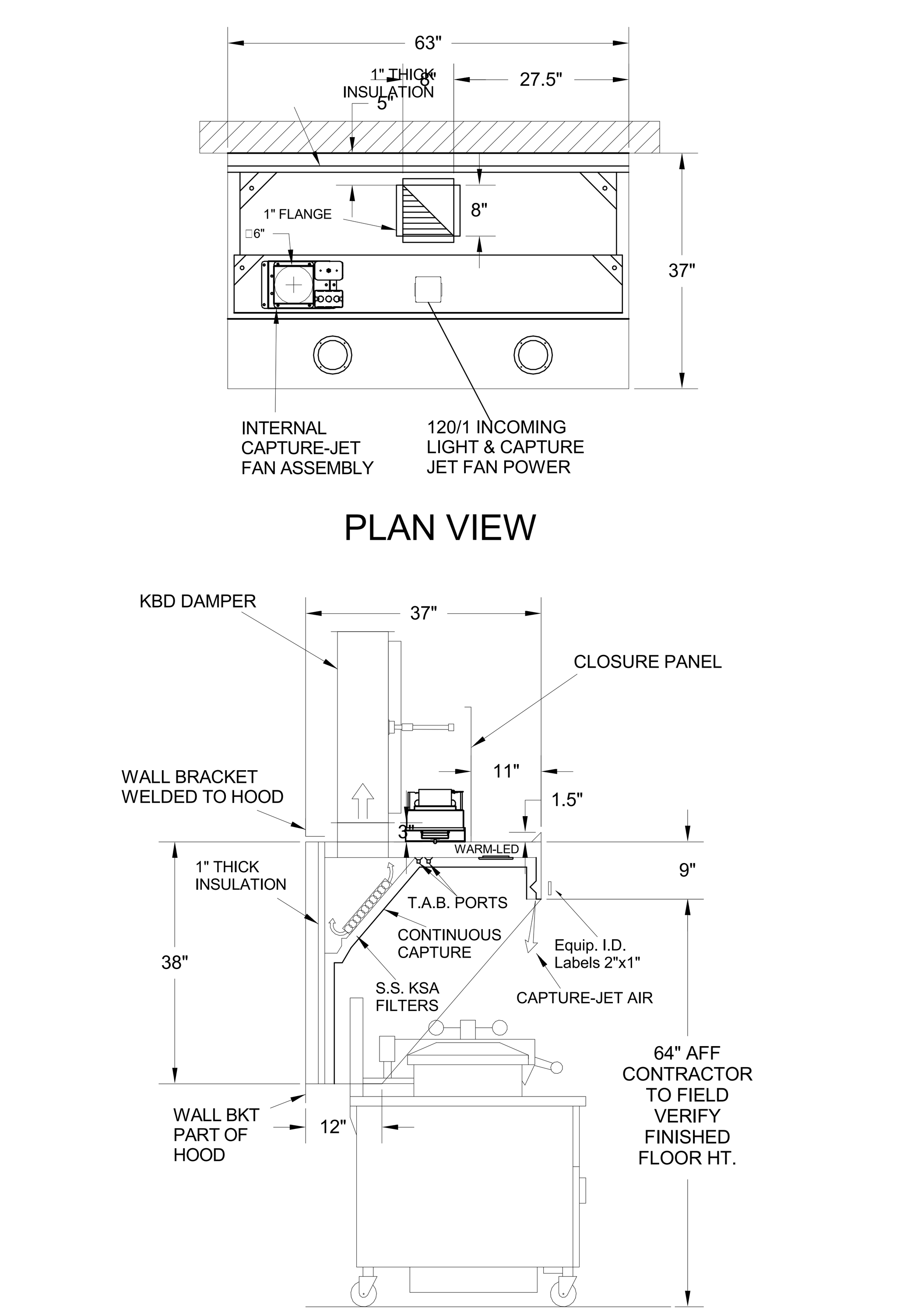
MODEL:KBD
CALIBRATED KBDs
KITCHEN BALANCING DAMPER
EXHAUST VOLUME DAMPER

TAG	"L"	"W"	QUANTITY
H-1L	8"	8"	1
H-1R	14	8"	1
H-2	8"	8"	1
H-3	8"	8"	1

MATERIAL: FRAME - 16GA CONT. GALV.
ADJUSTABLE PANEL 18GA S.S.

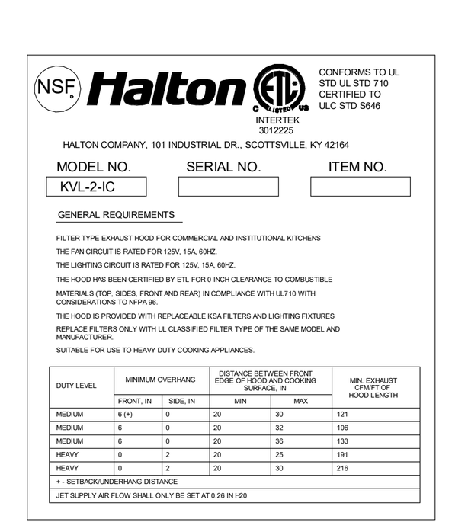


H-1L

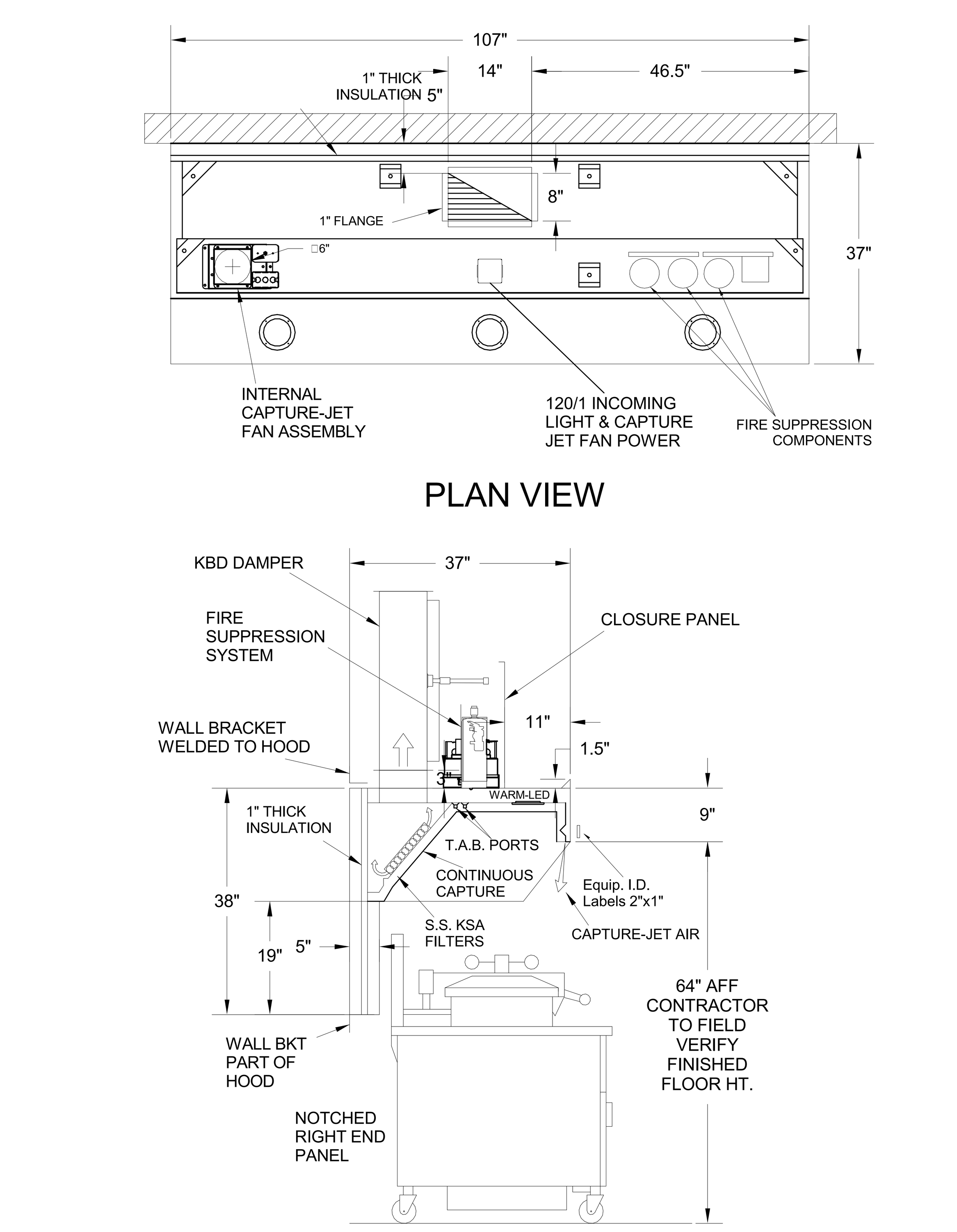


H-1L SECTION VIEW

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- 36"X24" ACCESS DOOR LEFT SIDE FOR ACCESS TO CAPTURE-JET WITH FRONT CJ INTAKE & KBD
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:
  (3) PRESSURE FRYERS

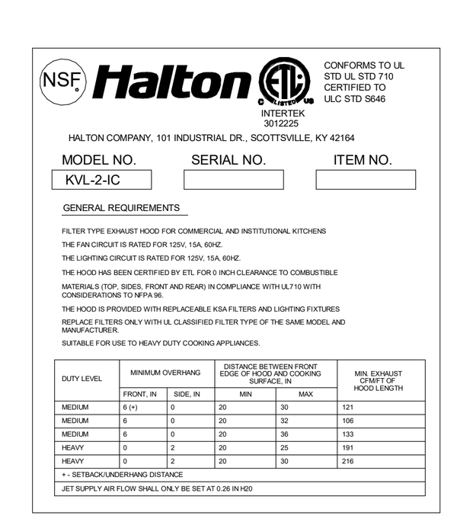


H-1R

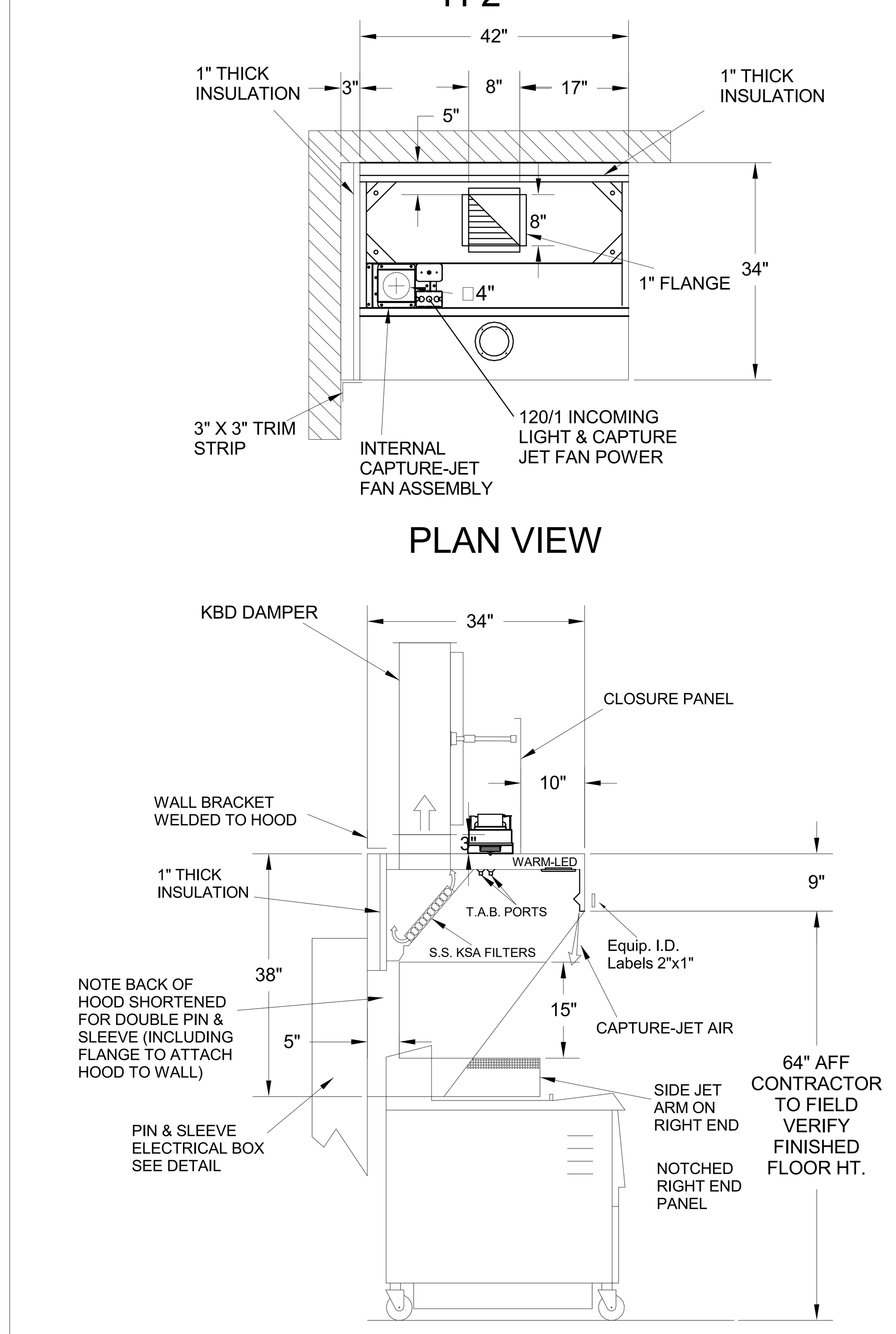


H-1R SECTION VIEW

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
  - FRONT CLOSURE PANEL WITH 40"X24" LIFT OUT DOOR RIGHT SIDE (ACCESS TO FIRE SUPPRESSION
  - 40"X24" LIFT DOOR LEFT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
  - CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
  - 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
  - NOTCHED RIGHT END PANEL
  - EQUIPMENT COVERED:
    (4) PRESSURE FRYERS
    (2) GRILLS
- ANSUL WEIGHT = 286 LBS
- AMEREX WEIGHT = 264 LBS



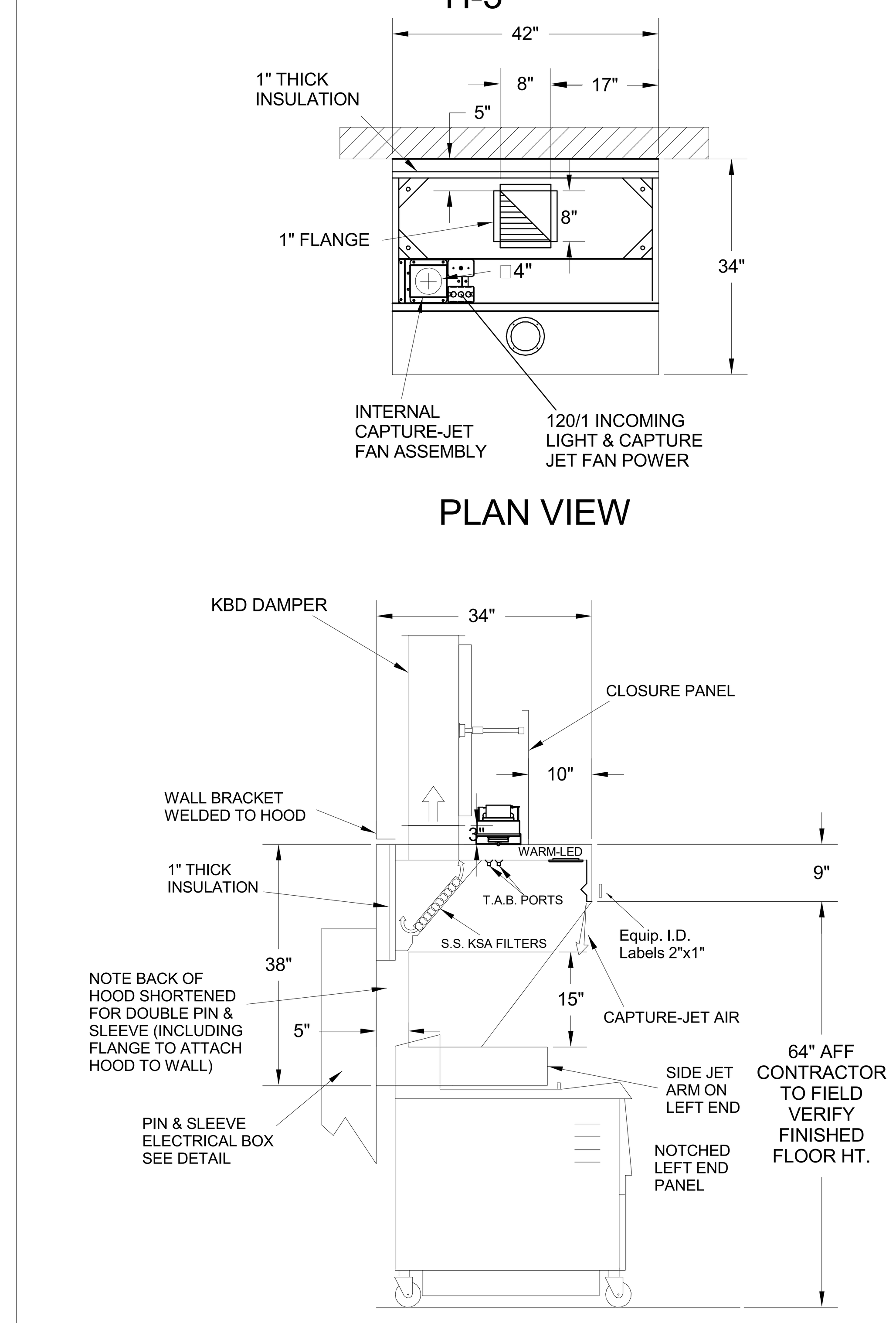
H-2



H-2 SECTION VIEW

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3"X3" TRIM STRIP FOR STANDOFF ON LEFT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:
  (2) FRYERS

H-3



H-3 SECTION VIEW

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:
  (2) FRYERS

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

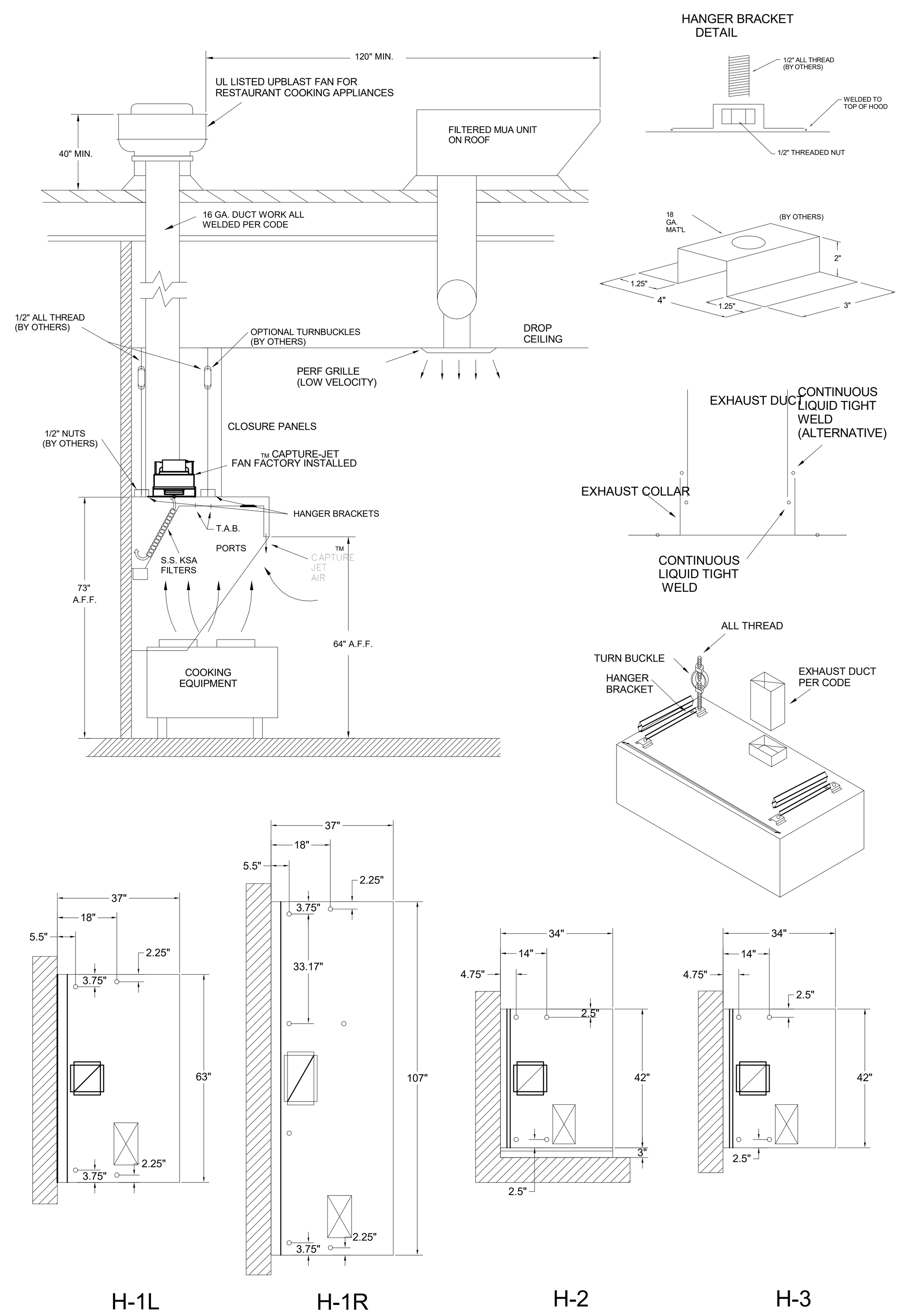
REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT: **CHICK-FIL-A**
LOCATION: Oldham Village FSU
SN#: 05248
DRAWN BY:
DATE: 11/15/2024
SCALE: NTS
Halton Dwg:

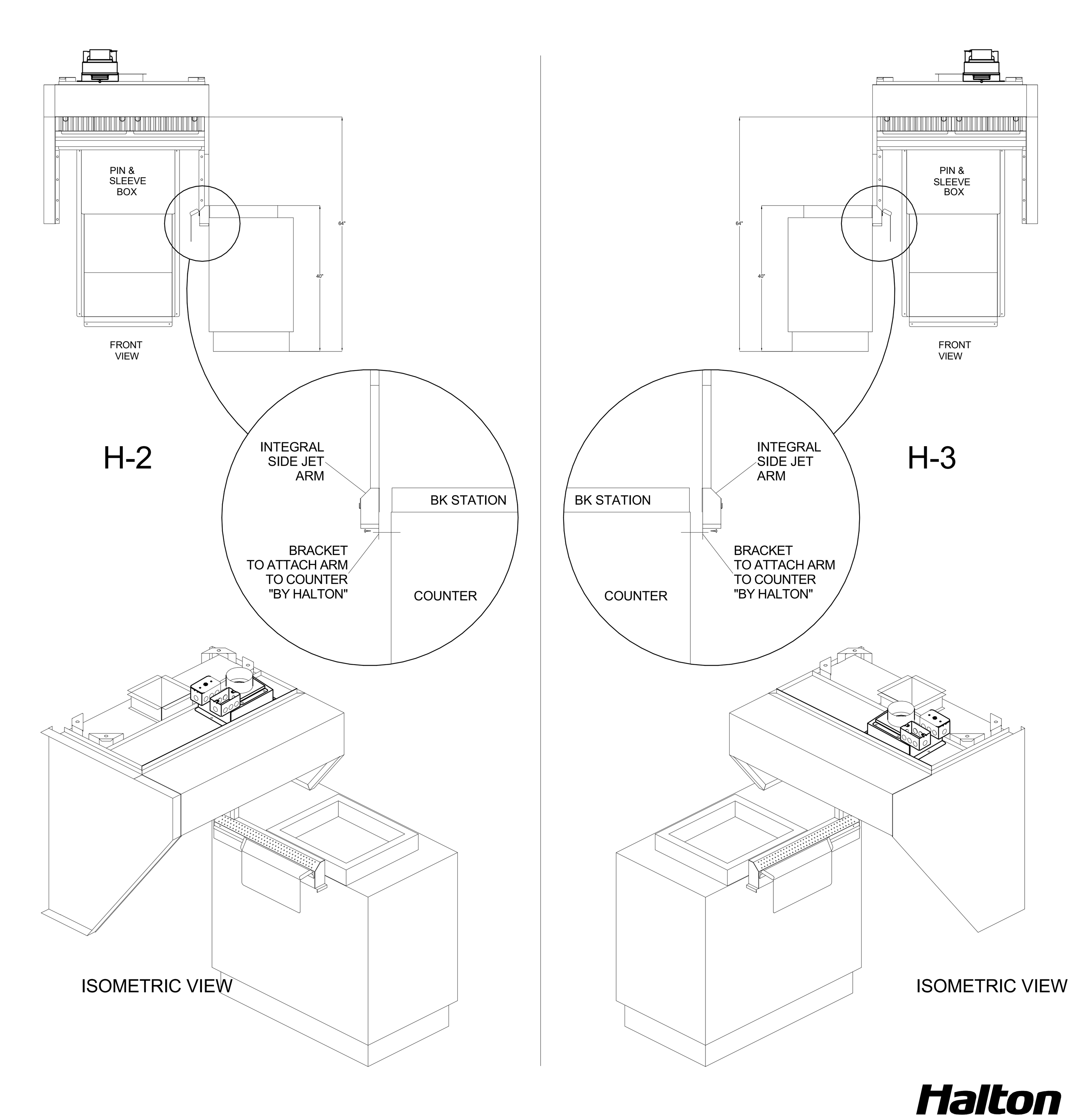
Halton
CARE FOR INDOOR AIR

Sheet
MH-1.1

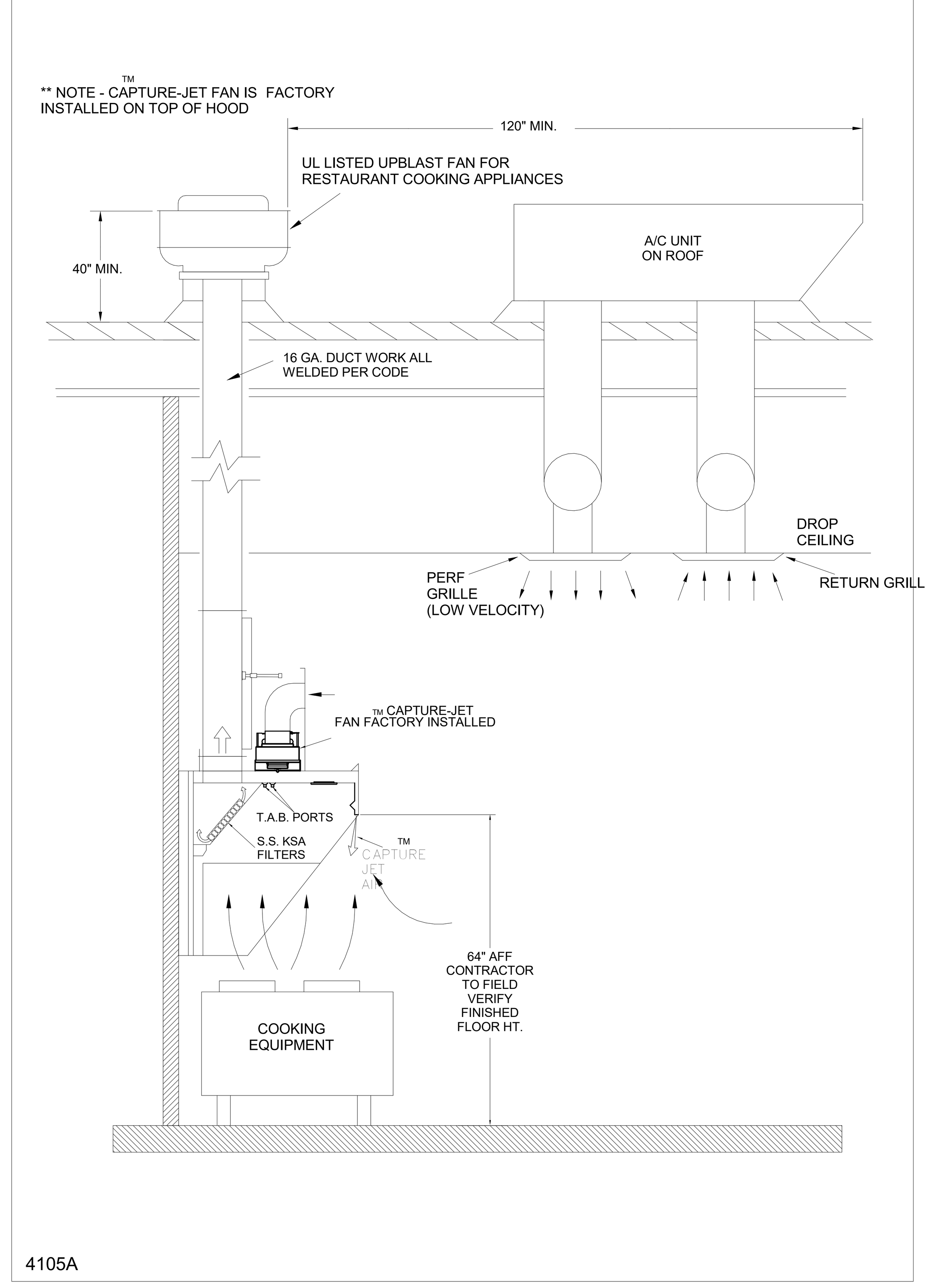
HANGER BRACKET DETAIL



Integral Side Jet Arm



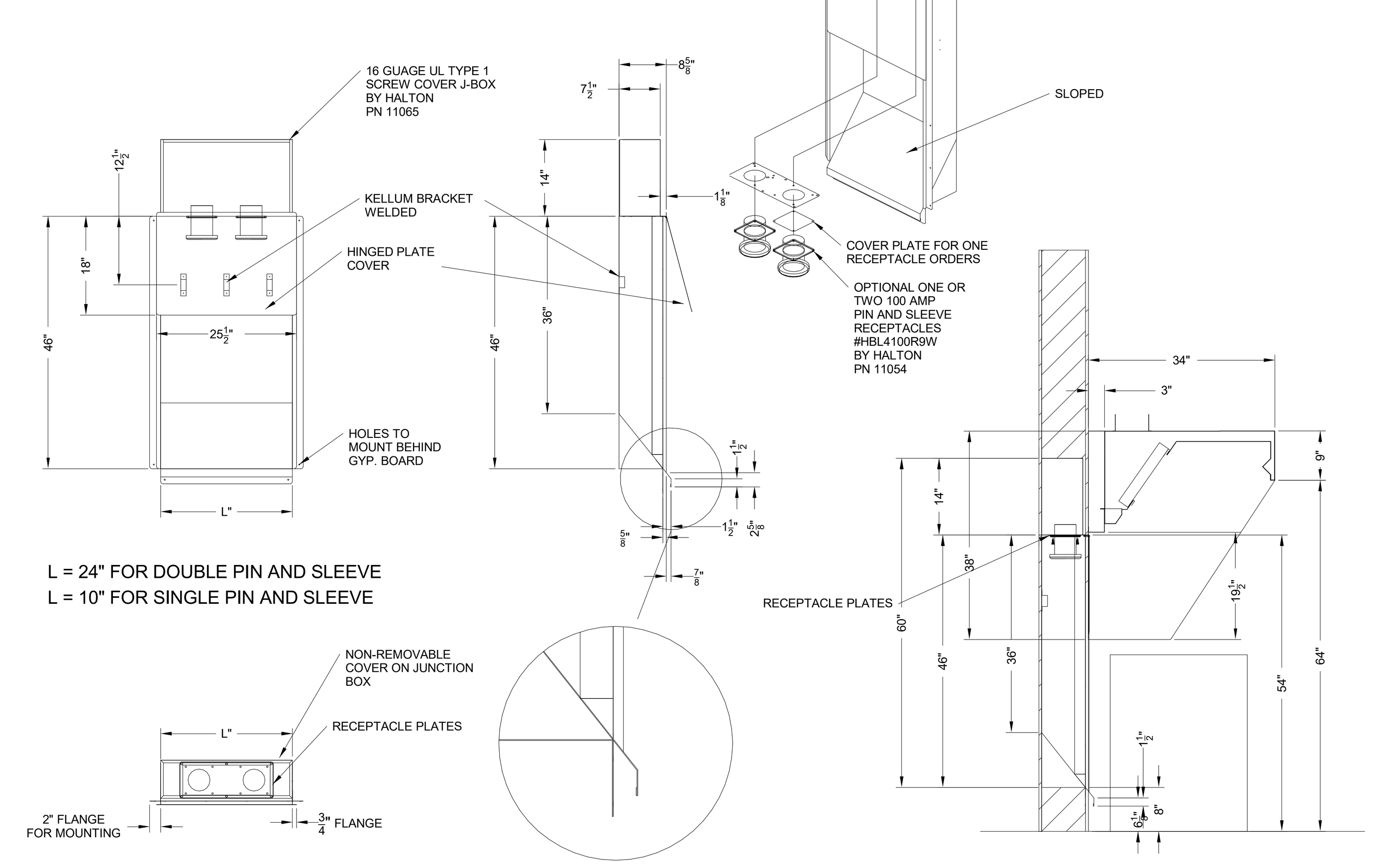
TYPICAL INSTALLATION



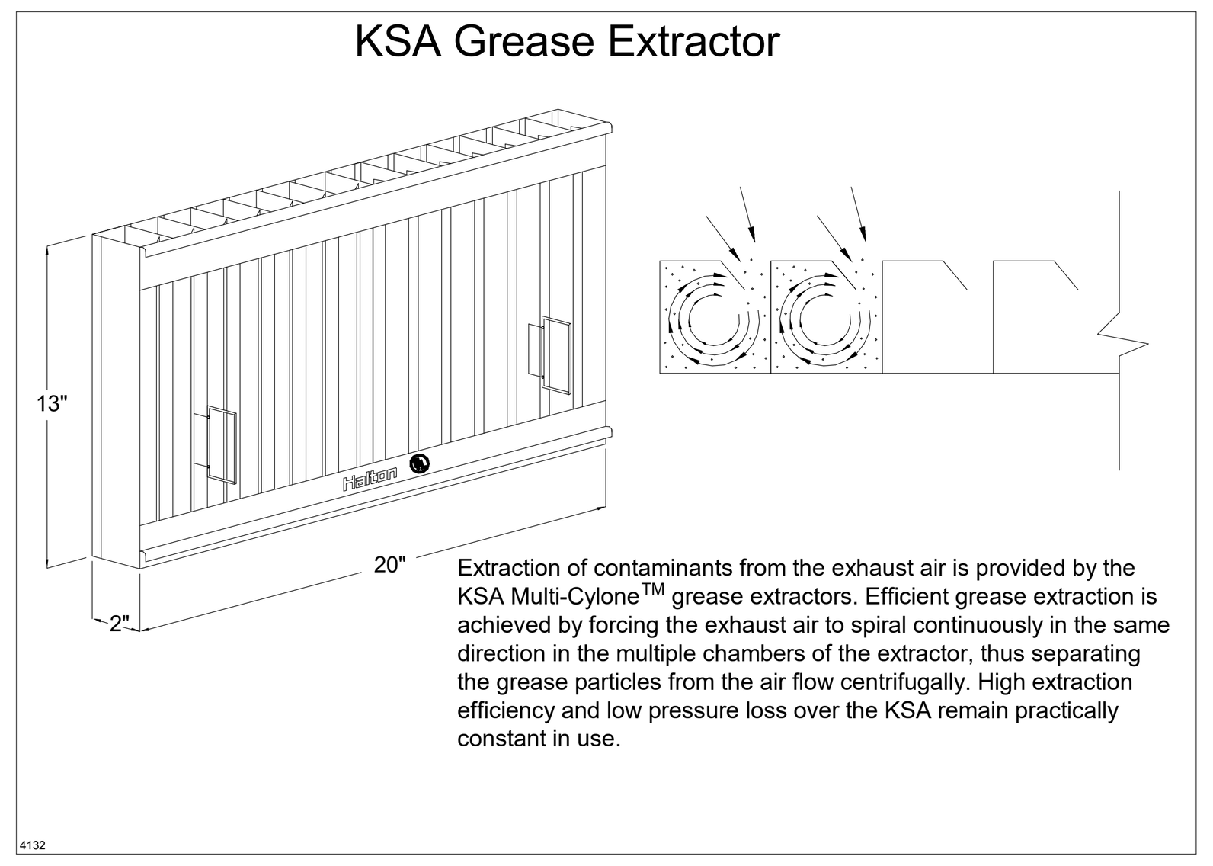
PIN & SLEEVE BOX DETAIL

HOOD #	PIN & SLEEVE LENGTH	RECEPTACLE
H-2	24"	DOUBLE
H-3	24"	DOUBLE

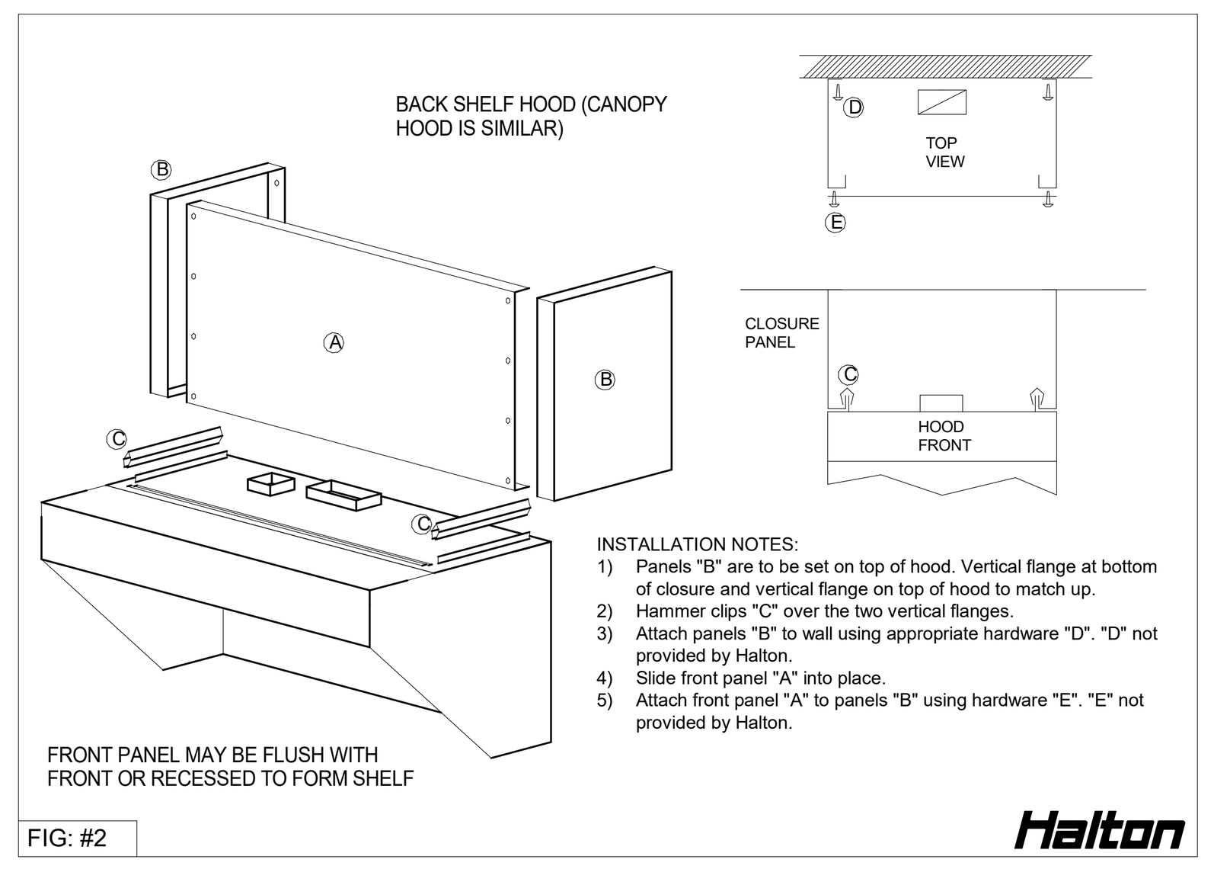
NOTE
THIS DETAIL DEPICTS THE INSTALLATION OF THE DOUBLE RECEPTACLE PIN & SLEEVE ASSEMBLY AT HOOD H-2 & HOOD H-3.



KSA Grease Extractor



Extraction of contaminants from the exhaust air is provided by the KSA Multi-Cyclone™ grease extractors. Efficient grease extraction is achieved by forcing the exhaust air to spiral continuously in the same direction in the multiple chambers of the extractor, thus separating the grease particles from the air flow centrifugally. High extraction efficiency and low pressure loss over the KSA remain practically constant in use.

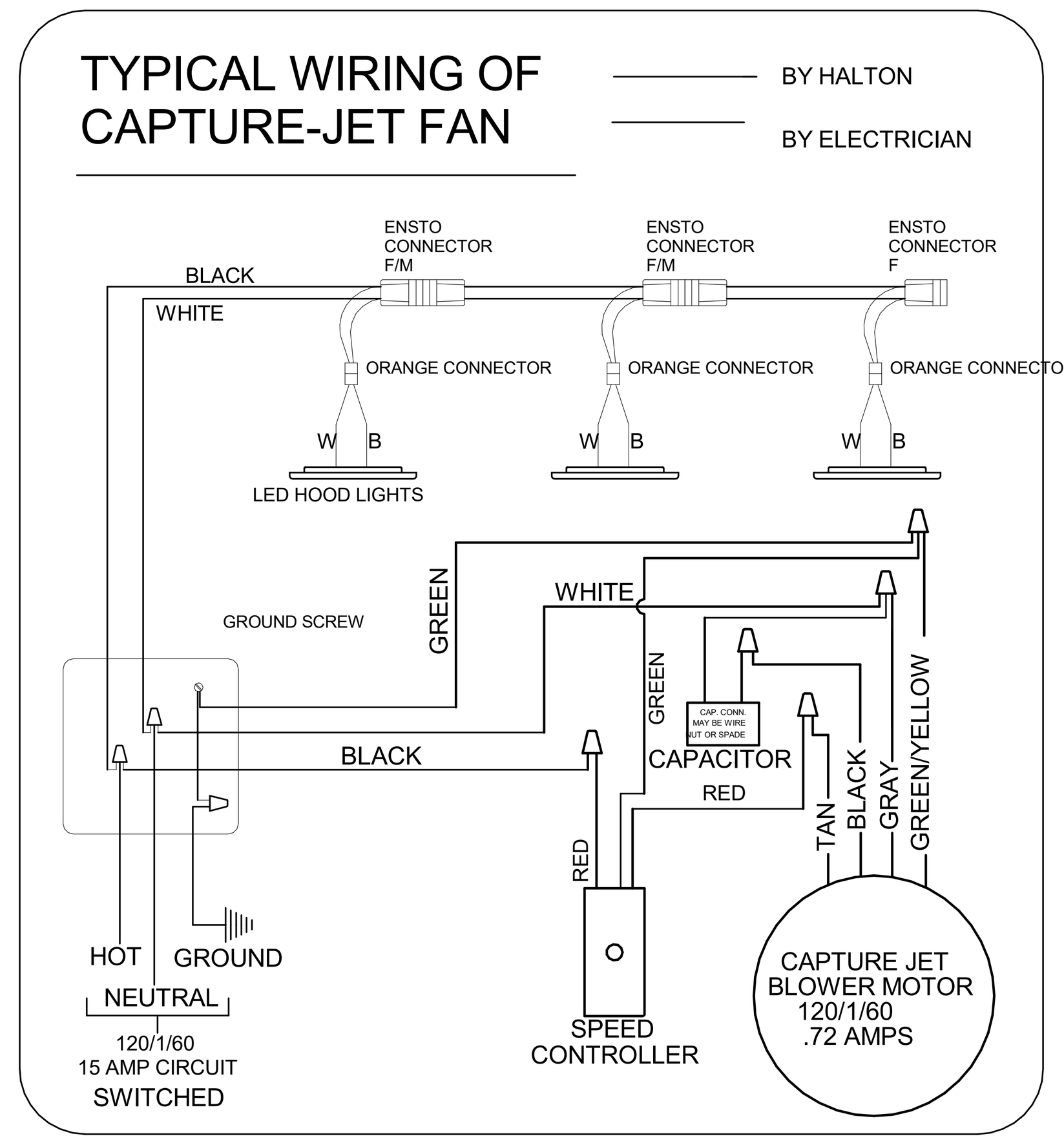


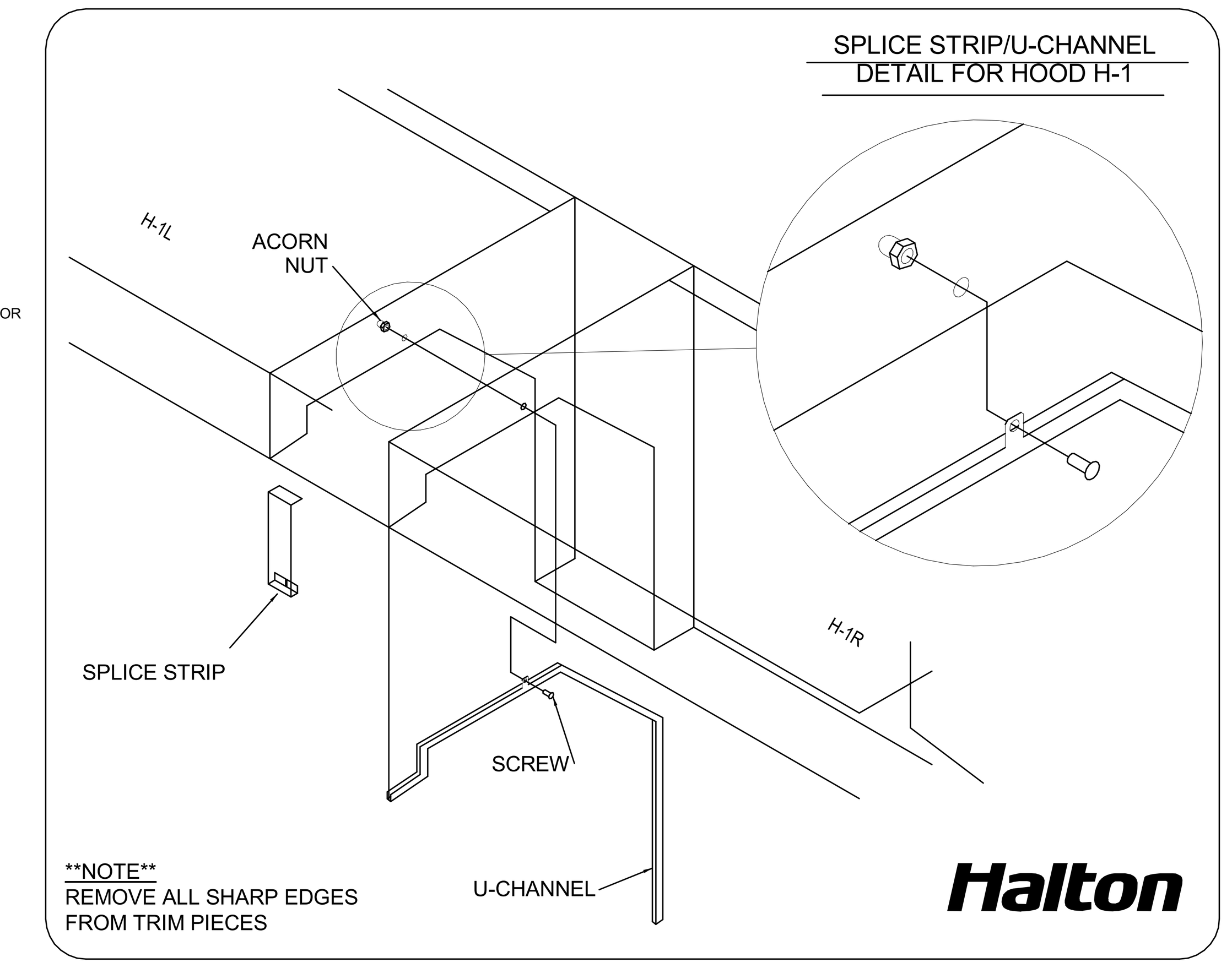
INSTALLATION NOTES:
1) Panels "B" are to be set on top of hood. Vertical flange at bottom of closure and vertical flange on top of hood to match up.
2) Hammer clips "C" over the two vertical flanges.
3) Attach panels "B" to wall using appropriate hardware "D". "D" not provided by Halton.
4) Slide front panel "A" into place.
5) Attach front panel "A" to panels "B" using hardware "E". "E" not provided by Halton.

FIG. #2

Halton

TYPICAL WIRING OF CAPTURE-JET FAN





HALTON HOODS
- ETL LISTED PER LATEST 710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED

NSF Halton ETL C LISTED US
INTERTEK 3012225
CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD S646

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO.	SERIAL NO.	ITEM NO.
KVL-C-IC		

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS
THE FAN CIRCUIT IS RATED FOR 125V, 15A, 60HZ.
THE LIGHTING CIRCUIT IS RATED FOR 125V, 15A, 60HZ.
THE HOOD HAS BEEN CERTIFIED BY ETL FOR 0 INCH CLEARANCE TO COMBUSTIBLE
MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96.
THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES
REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.
SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CFM/FT OF HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	0	0	21	31	138
JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.30 IN H20					

NSF Halton ETL C LISTED US
INTERTEK 3012225
CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD S646

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO.	SERIAL NO.	ITEM NO.
KVL-2-IC		

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS
THE FAN CIRCUIT IS RATED FOR 125V, 15A, 60HZ.
THE LIGHTING CIRCUIT IS RATED FOR 125V, 15A, 60HZ.
THE HOOD HAS BEEN CERTIFIED BY ETL FOR 0 INCH CLEARANCE TO COMBUSTIBLE
MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96.
THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES
REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.
SUITABLE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CFM/FT OF HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	6 (+)	0	20	30	121
MEDIUM	6	0	20	32	106
MEDIUM	6	0	20	36	133
HEAVY	0	2	20	25	191
HEAVY	0	2	20	30	216
+ - SETBACK/UNDERHANG DISTANCE					
JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.26 IN H20					

FOR REFERENCE ONLY

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFYING THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT

APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY ______ DATE

COMPLIES WITH LATEST NFPA-96

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA) ☐
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA) ☒
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

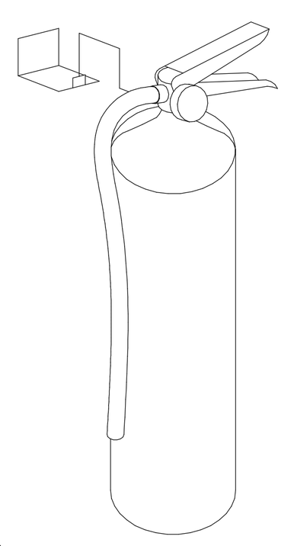
SN#: 05248

PROJECT: CHICK-FIL-A
LOCATION: Oldham Village FSU
DRAWN BY:
DATE: 11/15/2024
SCALE: NTS
Halton Dwg:

Halton CARE FOR INDOOR AIR

Sheet
MH-1.2

FIRE EXTINGUISHER



ANSUL

13051 5 LBS ABC MODEL AA05 QTY______

13052 10 LBS ABC MODEL AA10S QTY______

13053 6 LTR CLASS K-GUARD K01-3 QTY______

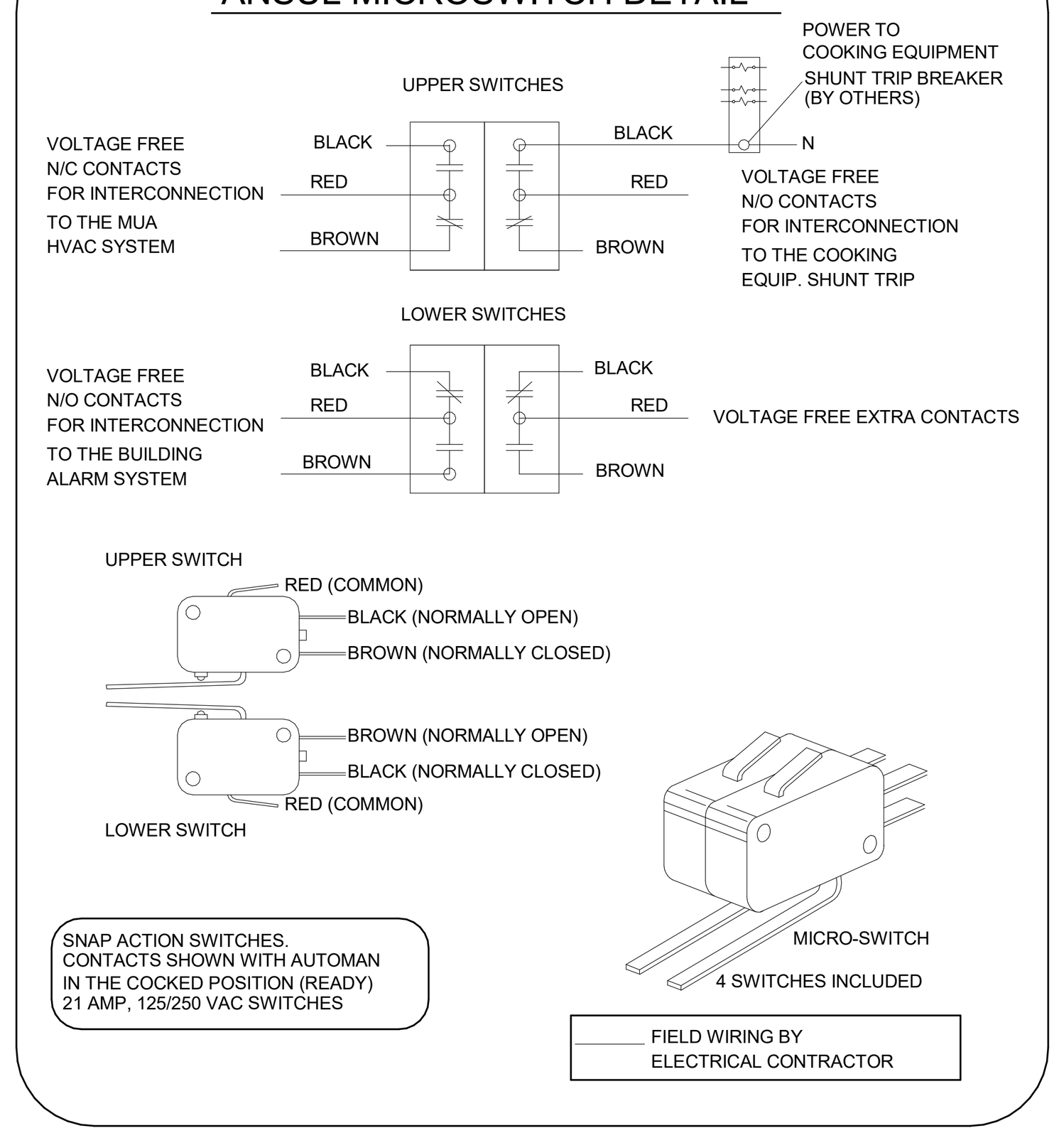
SUPPLIED BY HALTON

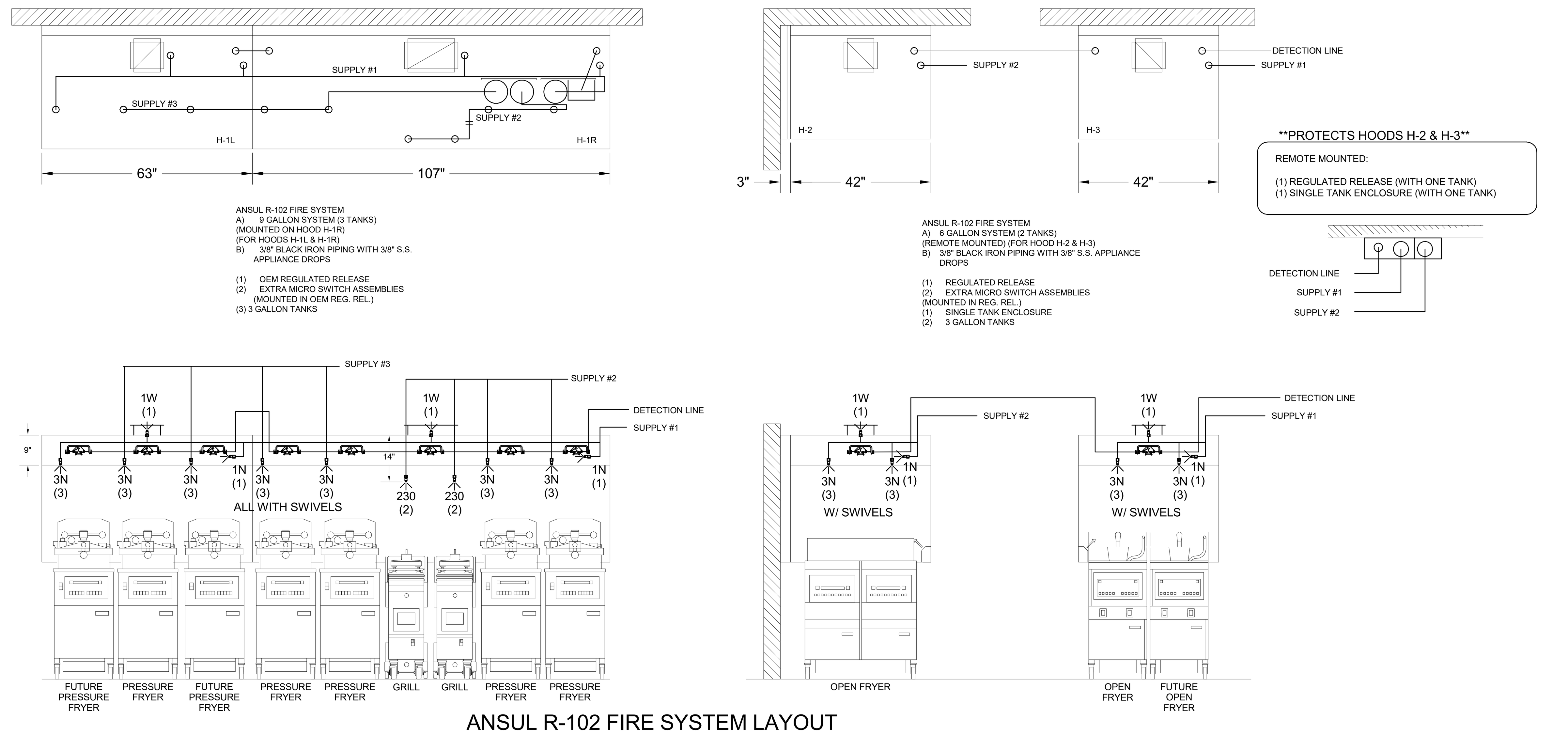
FOR REFERENCE ONLY

NOTE:

FIRE SYSTEM TYPE TO BE DETERMINED AT TIME OF ORDER RELEASE.

ANSUL MICROSWITCH DETAIL





ANSUL R-102 FIRE SYSTEM LAYOUT

ANSUL

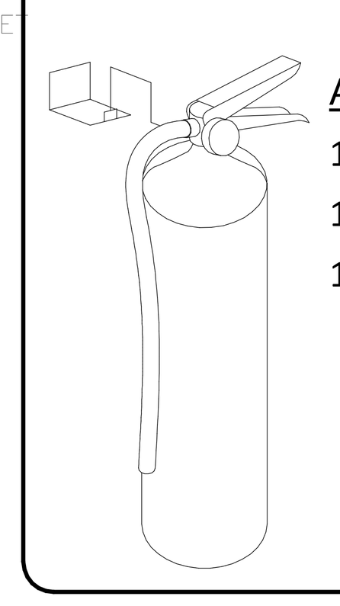
FUSIBLE LINK RATINGS
ITEM TEMP
OPEN FRYERS 450°
2 BURNER / FLAT TOP 450°
PRESSURE FRYERS 450°
GRILL 450°
EXHAUST COLLARS 450°
ANSUL R-102 FIRE SYSTEM NOTES
THREE TANK SYSTEM MOUNTED ON TOP OF (H-1R)
MAXIMUM FLOW POINTS = 33
ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM REMOTE MOUNTED
MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	4	DUCT NOZZLES	4
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	11	APPLIANCE NOZZLES	33
			TOTAL FLOW POINTS	45
ITEM		QTY	DESCRIPTION	
#200	10035	8	SERIES DETECTORS W/ FUSIBLE LINKS	
#201	11973	2	TERMINAL DETECTORS W/ FUSIBLE LINKS	
#202	10046	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#202	10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#203	10333	5	3 GALLON TANKS	
#204	10044	1	SINGLE TANK ENCLOSURE	
#205	10040	2	REMOTE PULL STATION	
#207	10065	4	DOUBLE TANK NITROGEN CARTRIDGE	
#208	11128	5	3 GALLON ANSULEX CONTAINER	

ANSUL R-102 FIRE SYSTEM
UL LISTED PER STD LATEST STD 300

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

FIRE EXTINGUISHER



AMEREX

11238 5 LBS ABC MODEL B402 QTY______

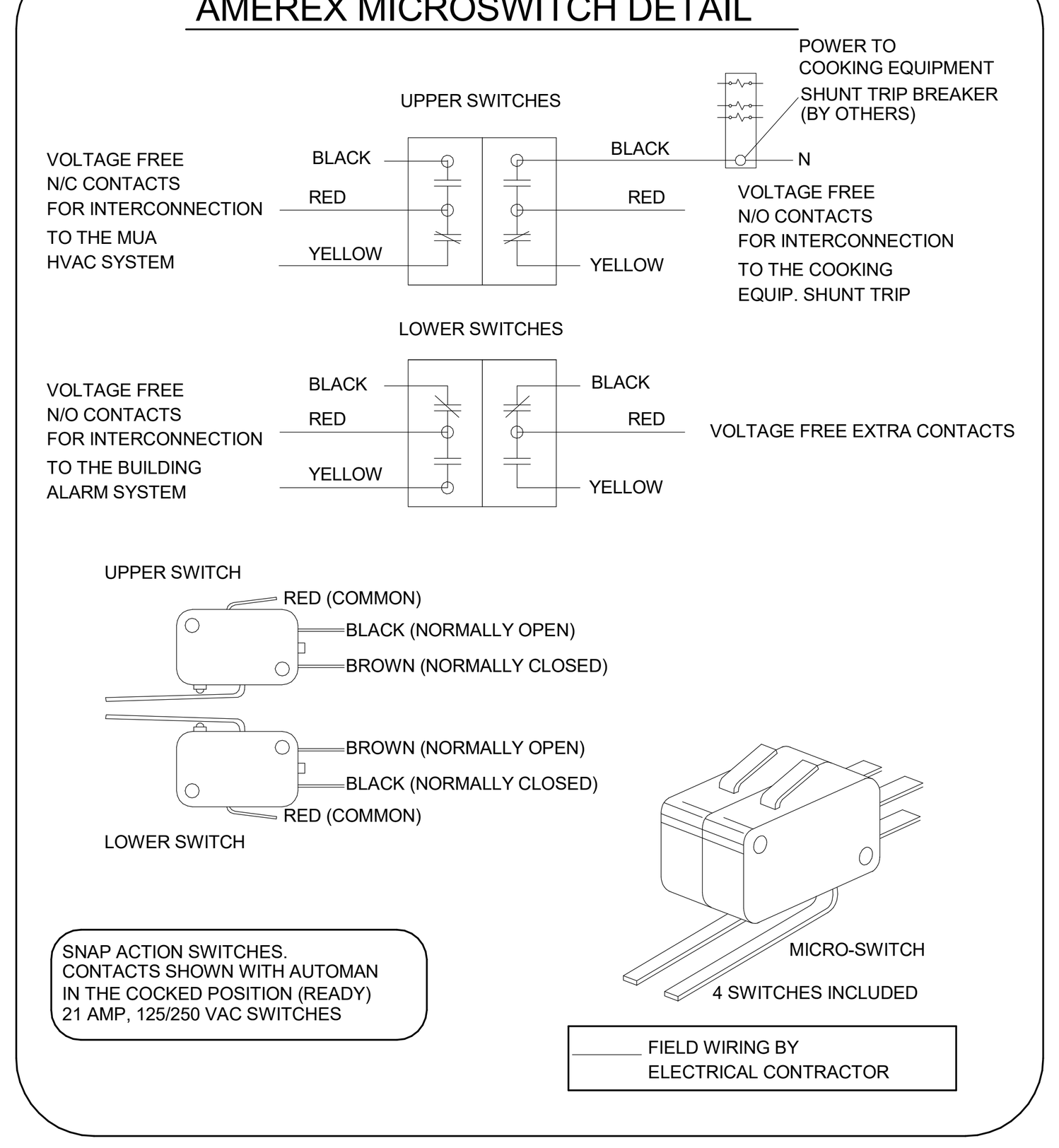
11239 10 LBS ABC MODEL B456 QTY______

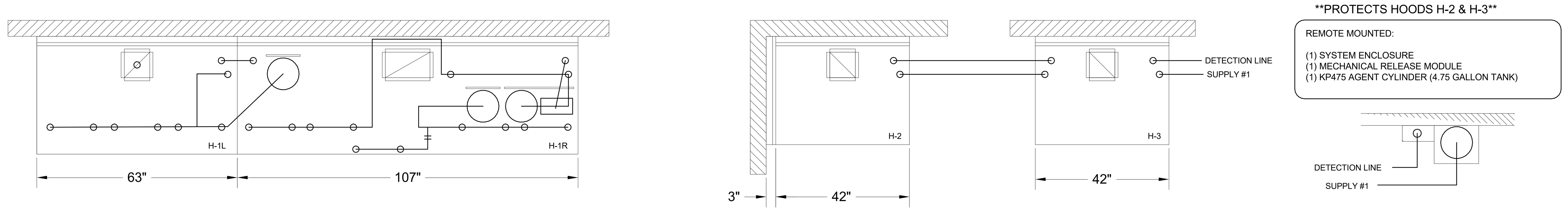
11240 6 LTR CLASS K MODEL C-260 QTY______

SUPPLIED BY HALTON

1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!

AMEREX MICROSWITCH DETAIL



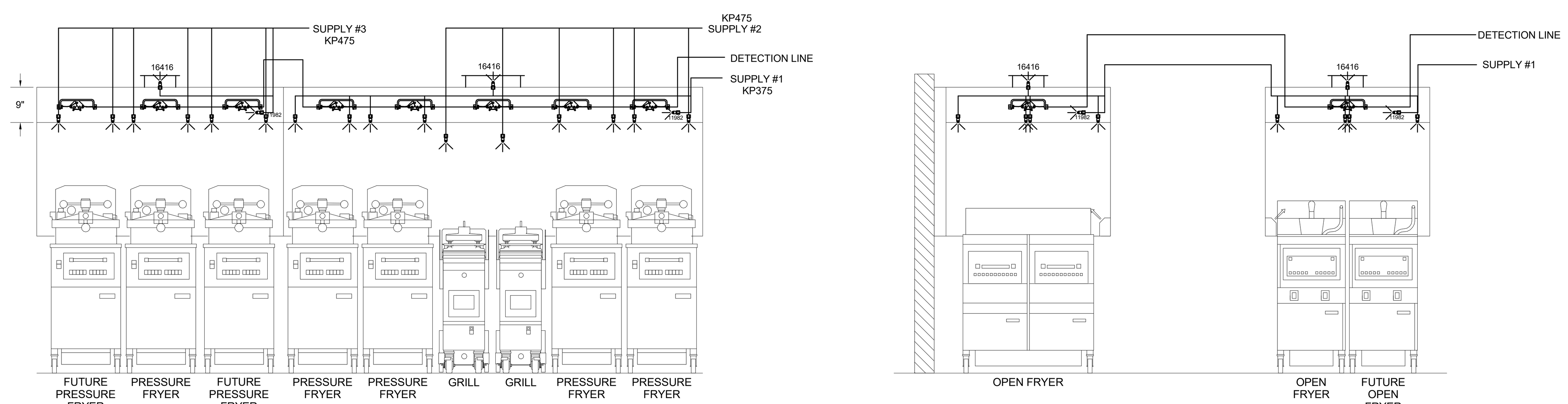


AMEREX FIRE SYSTEM
A) (1) KP375 TANK - 11 FLOW POINTS (2) KP475 TANKS - 14 FLOW POINTS (MOUNTED ON HOOD H-1R) (FOR HOODS H-1L & H-1R)
B) 1/2" & 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) 3.75 GALLON TANK
(2) 4.75 GALLON TANKS

NOZZLE	QTY	DESCRIPTION
16416	1 EA.	DUCT NOZZLES
11982	1 PER 10'	PLENUM NOZZLES
11982	2 PER FRYER	ALL OPEN FRYERS
13729	2 PER FRYER	ALL PRESSURE FRYERS
14178	1 PER GRILL	ALL GRILLS
ALL APPLIANCE NOZZLES WITH SWIVELS		

* SEE ELEVATION VIEW FOR FIRE SYSTEM DESIGN.

AMEREX FIRE SYSTEM
A) (1) KP475 TANKS - 14 FLOW POINTS (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
(1) SYSTEM ENCLOSURE
(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) KP475 AGENT CYLINDERS (4.75 GALLON TANK)



AMEREX FIRE SYSTEM LAYOUT

AMEREX

FUSIBLE LINK RATINGS
ITEM TEMP
OPEN FRYERS 450°
2 BURNER / FLAT TOP 450°
PRESSURE FRYERS 450°
GRILL 450°
EXHAUST COLLARS 450°
AMEREX FIRE SYSTEM NOTES
(1) KP375 & (2) KP475 TANK SYSTEM MOUNTED ON TOP OF (H-1R)
MAXIMUM FLOW POINTS = 39
AMEREX FIRE SYSTEM NOTES
KP475 TANK SYSTEM REMOTE MOUNTED
(1) TANK
MAXIMUM FLOW POINTS = 14

ITEM	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	4	DUCT NOZZLES	4
11982	4	PLENUM NOZZLES	4
11982	8	APPLIANCE NOZZLES	8
14178	2	APPLIANCE NOZZLES	4
13729	14	APPLIANCE NOZZLES	28
		TOTAL FLOW POINTS	48
ITEM	QTY	DESCRIPTION	
12508-P001	10	DETECTORS BRACKET ASSEMBLY	
13334	1	KP375 AGENT CYLINDER	
17379	3	KP475 AGENT CYLINDER	
18001	1	MECHANICAL RELEASE MODULE WITH ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
11977	1	MECHANICAL RELEASE MODULE WITHOUT ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
21481	2	REMOTE MANUAL PULL STATION	

AMEREX FIRE SYSTEM
UL LISTED PER STD LATEST STD 300

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY AMEREX INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

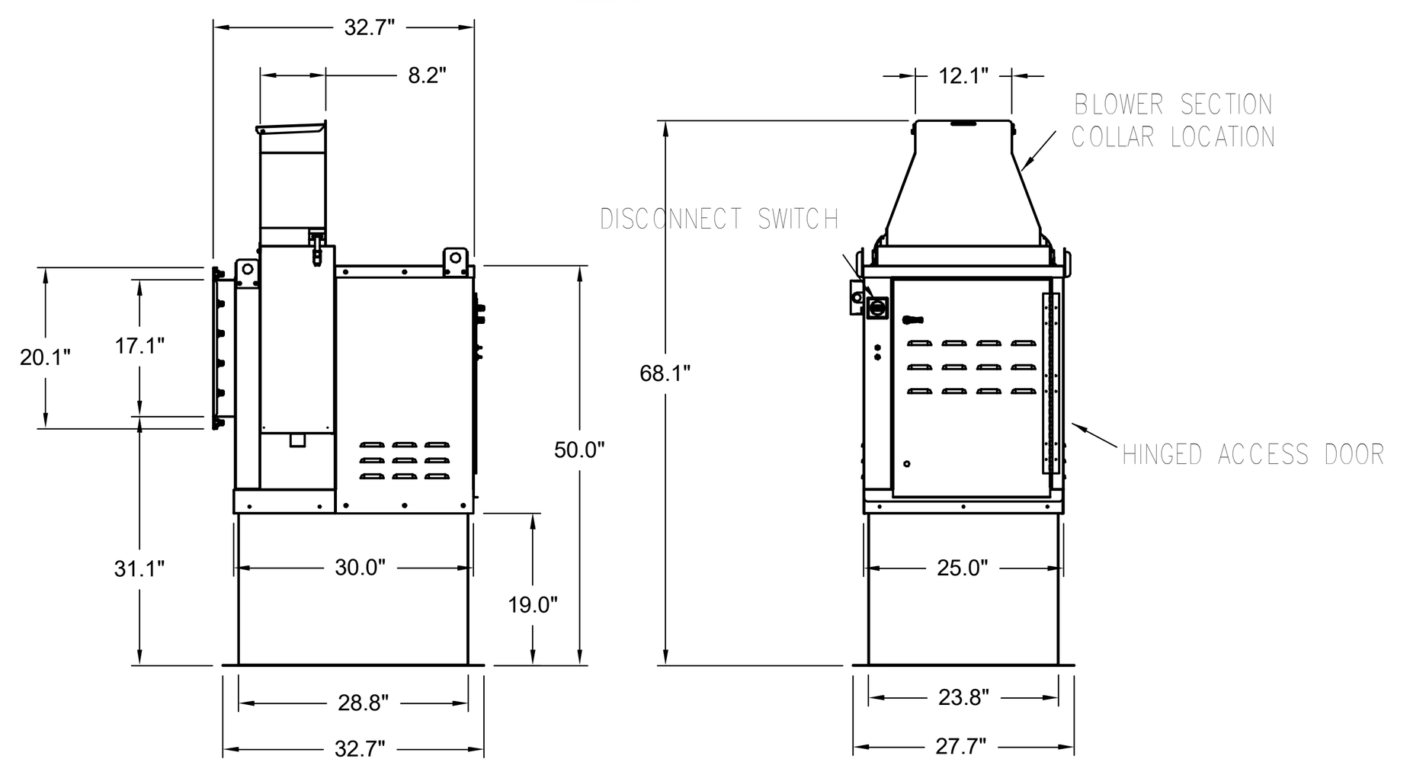
PROJECT: **CHICK-FIL-A**
LOCATION: Oldham Village FSU
SN#: 05248
DRAWN BY: DATE: 11/15/2024
SCALE: NTS
Halton Dwg:

Halton
CARE FOR INDOOR AIR

Sheet
MH-1.3

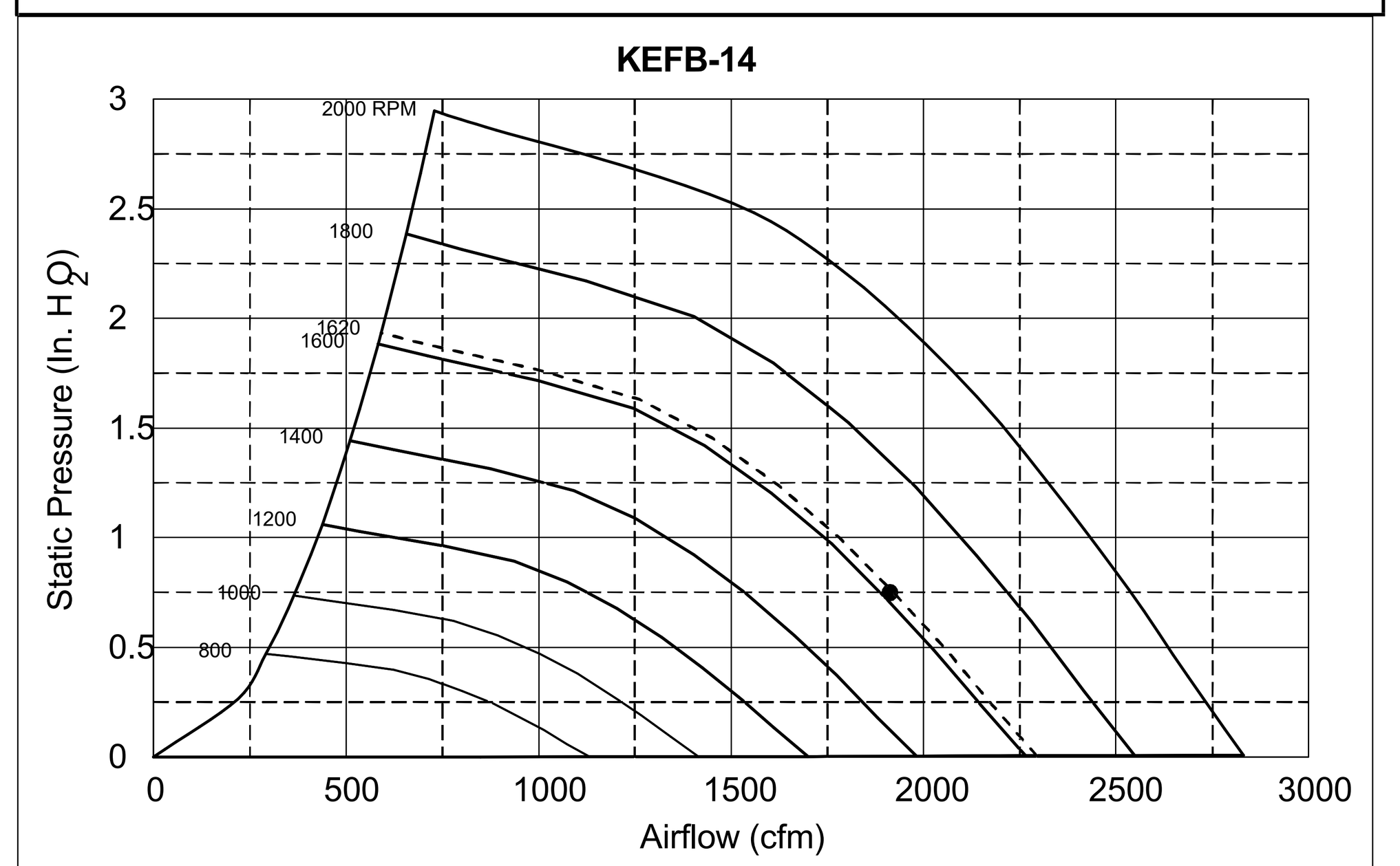
FOR REFERENCE ONLY

EF-1

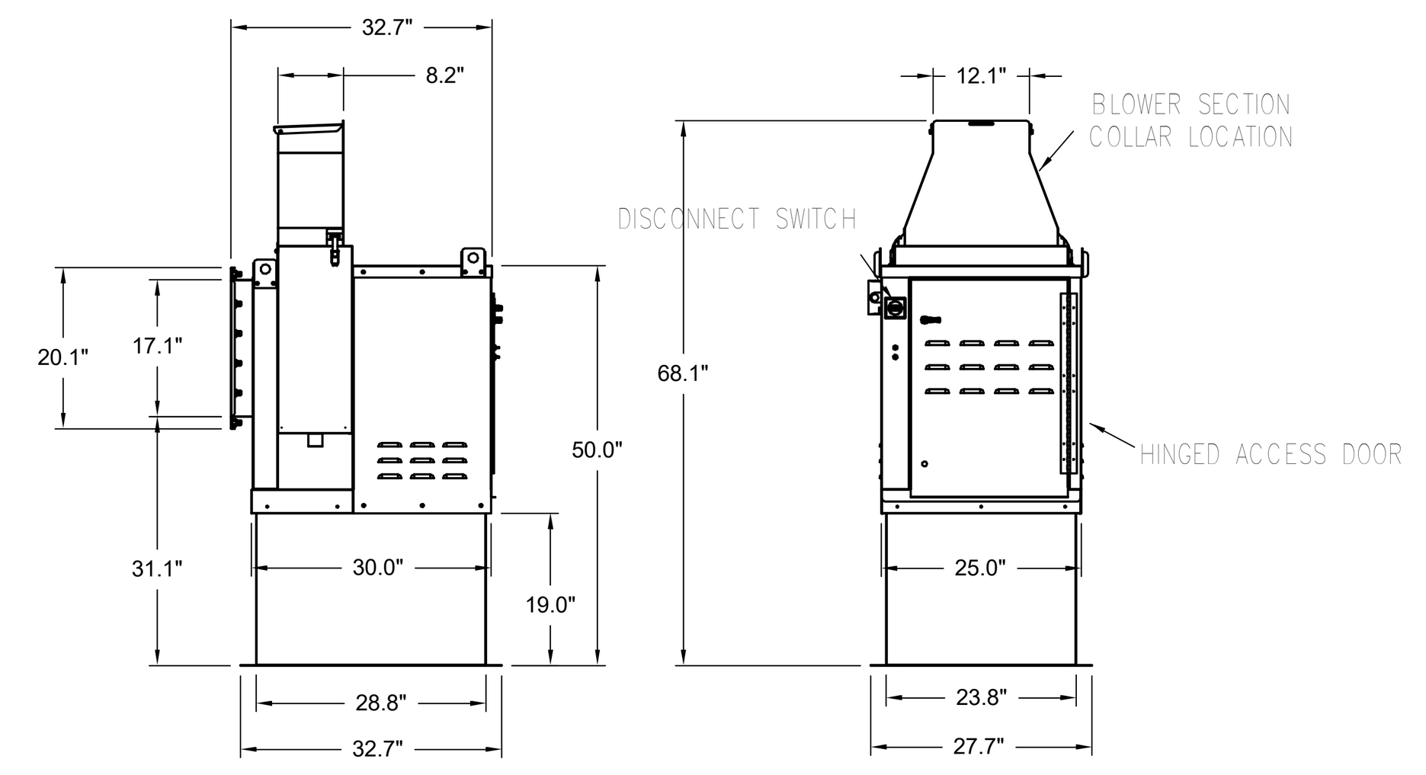


Halton KEFB Exhaust Fan

Job Name Chick-fil-A
Location EF-1
Date 1/26/2023 Item No Qty
Model KEFB-14 Fan RPM 1,747 Volts/Ph/Amps: 115/1/60
Airflow, cfm 1,913 Fan BHP 0.55 Motor HP 0.75
Static Pressure, in WC 0.75 dB 85.3 TAB Port, in WC 4

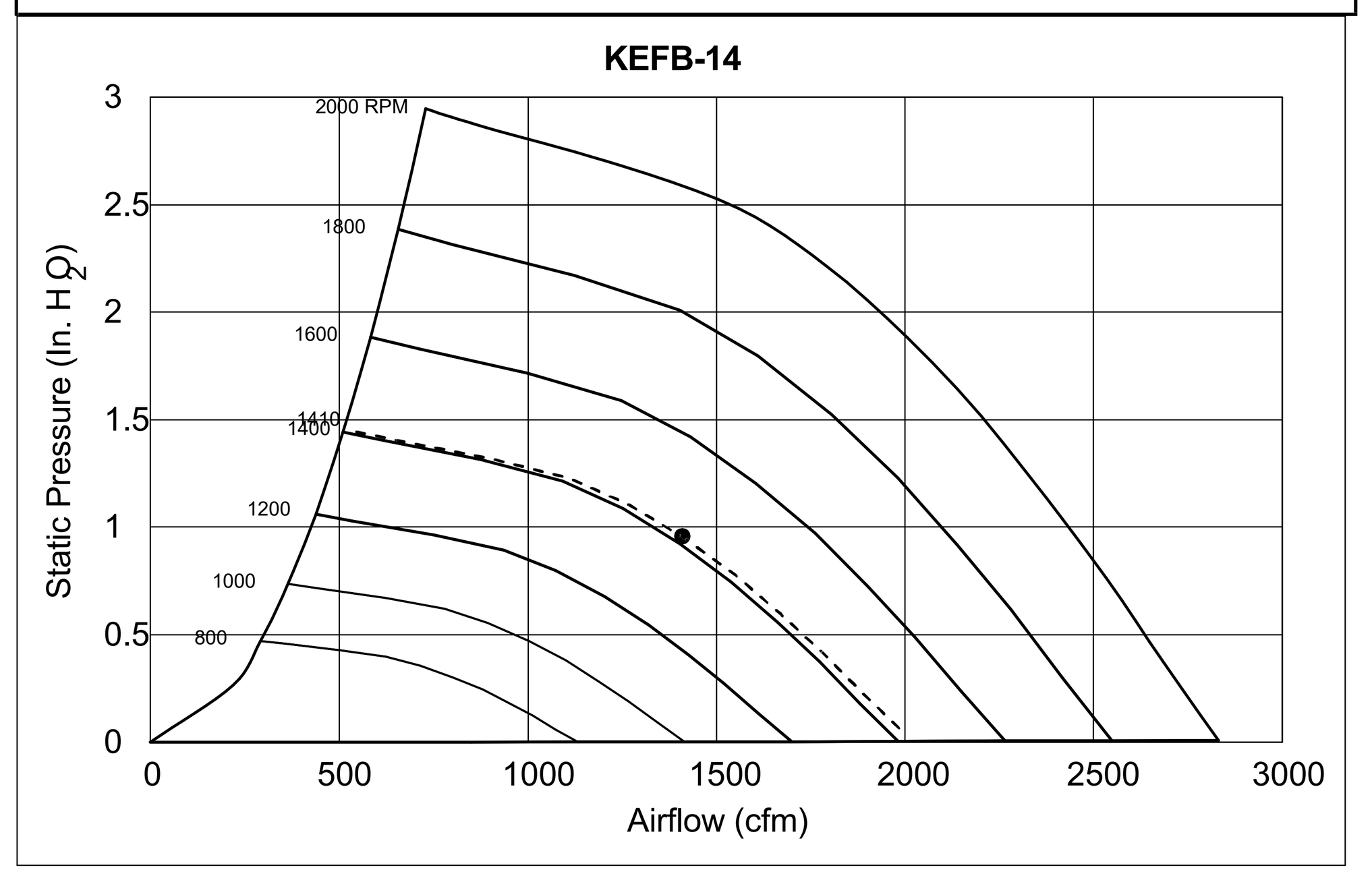


EF-2



Halton KEFB Exhaust Fan

Job Name Chick-fil-A
Location EF-2
Date 1/26/2023 Item No Qty
Model KEFB-14 Fan RPM 1,522 Volts/Ph/Amps: 115/1/60
Airflow, cfm 1,402 Fan BHP 0.38 Motor HP 0.75
Static Pressure, in WC 0.95 dB 81.6 TAB Port, in WC 2.1



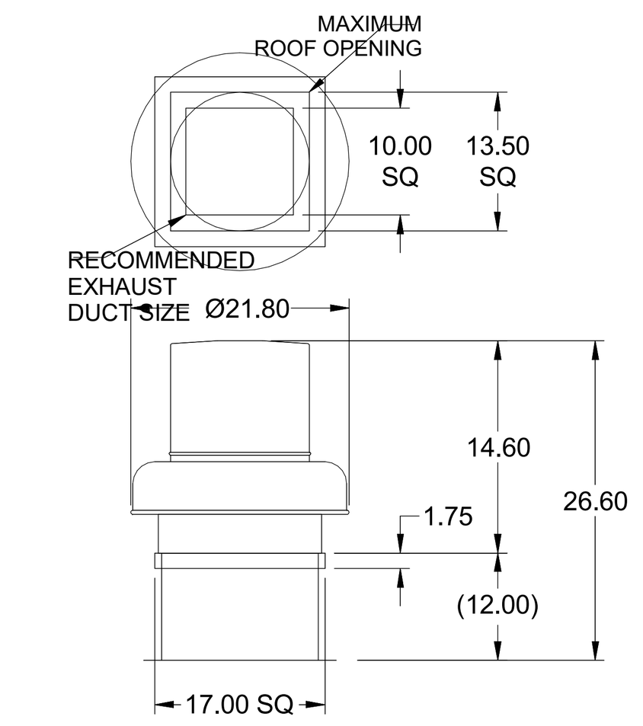
EF-3

Model: XRED-095-VG
Direct Drive Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	28
Weight w/ Acc's (lb)	35
Weight w/ Acc's and Curb (lb)	49
Standard Curb Cap Size (in.)	17 x 17
Optional Damper (in.)	10 x 10
Roof Opening (in.)	13.5 x 13.5

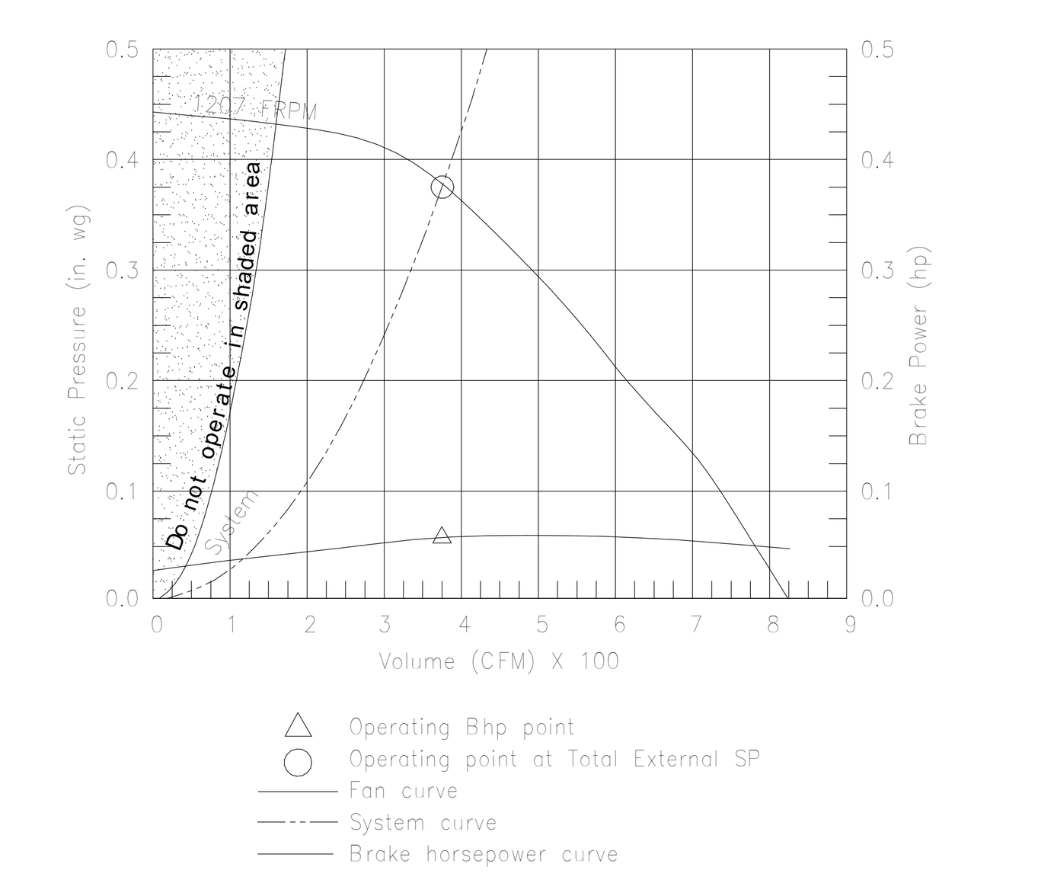
Performance	
Requested Volume (CFM)	300
Actual Volume (CFM)	300
Total External SP (in. wg)	0.375
Fan RPM	1207
Operating Power (hp)	0.05
Elevation (ft)	23
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	3,437
Static Eff. (%)	41

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	323



Motor	
Motor Mounted	Yes
Size (hp)	1/8 (or greater)
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1550
Efficiency Rating	Standard
Windings	1

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



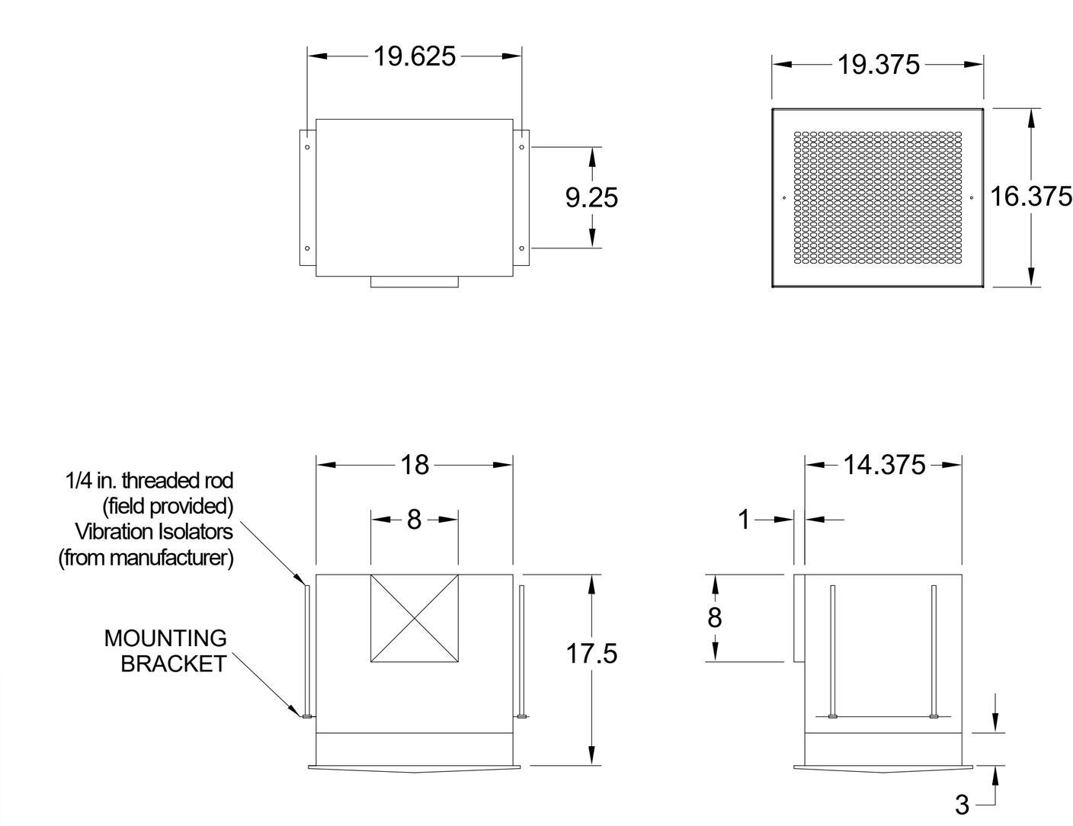
RF-1

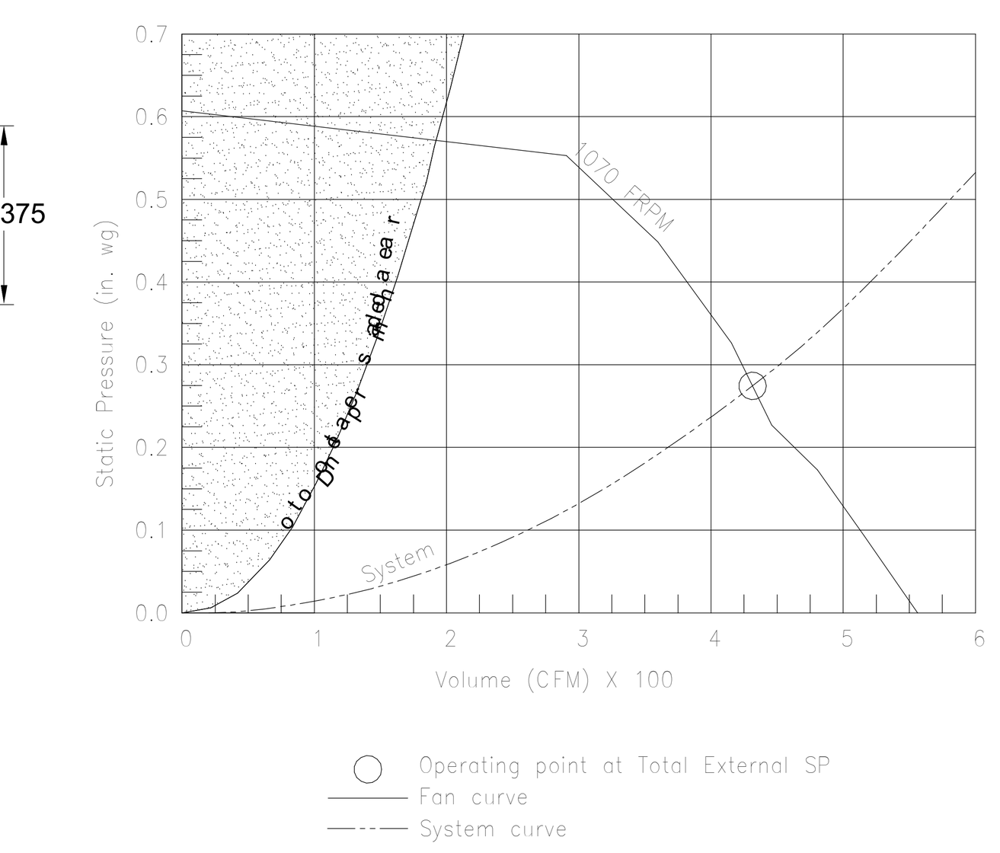
Model: SP-A510-VG

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	31
Weight w/ Acc's (lb)	40

Performance	
Requested Volume (CFM)	450
Actual Volume (CFM)	431
Total External SP (in. wg)	0.275
Fan RPM	1070
* FLA (A)	3.3
Elevation (ft)	23
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Sones	4.5

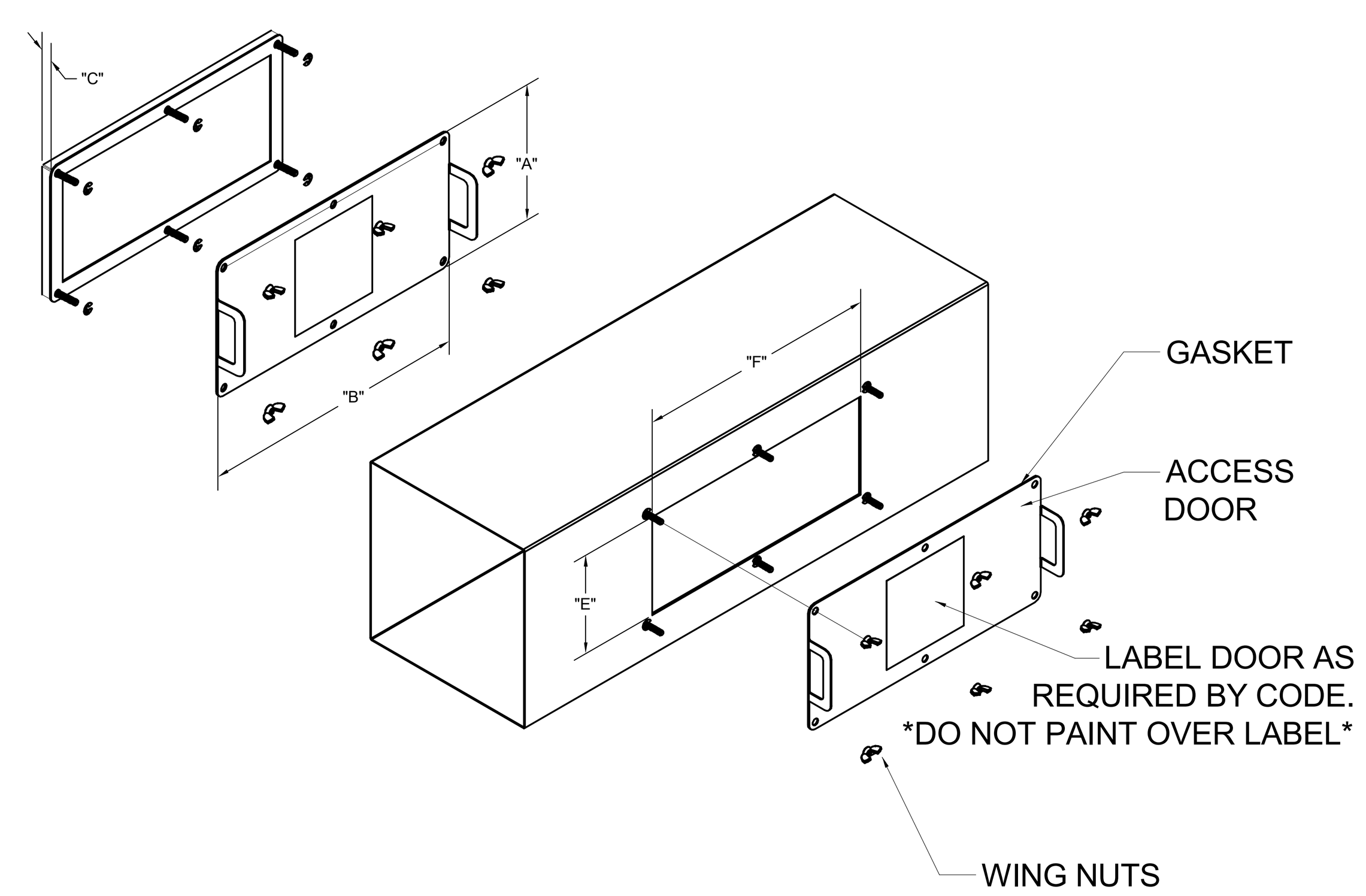
Motor	
Motor Mounted	Yes
** Input Watts (W)	224
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP



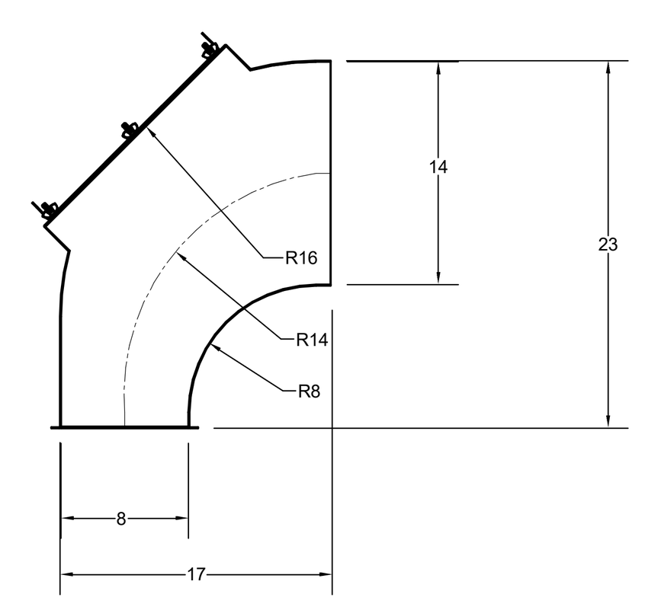


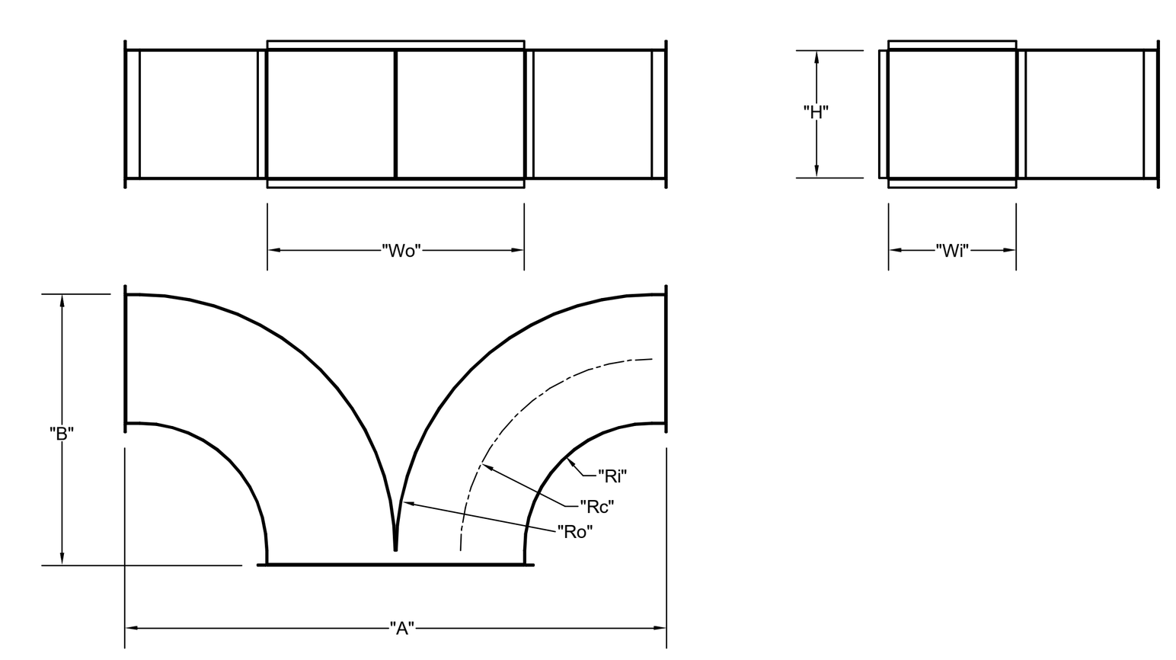
GREASE ACCESS DOOR					
	DOOR SIZE	SCHEDULE	OPTIONAL FLANGE	OPENING SIZE	
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEREE GASKET MATERIAL

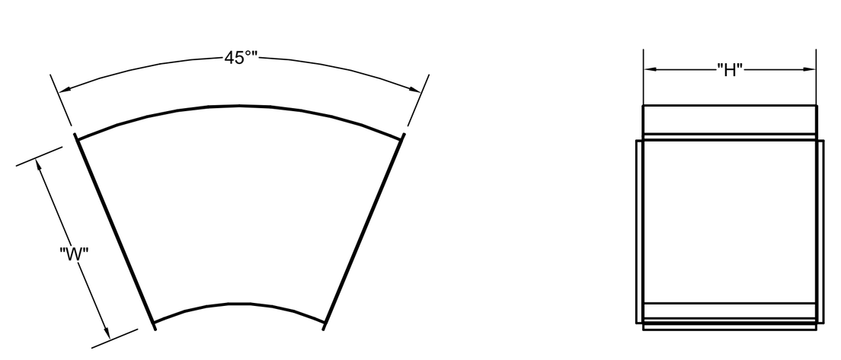


INSTALL PER MANUFACTURER'S INSTRUCTIONS

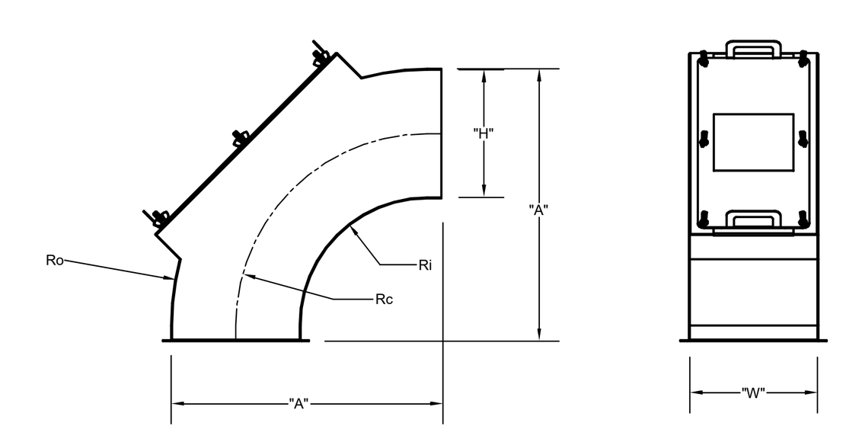




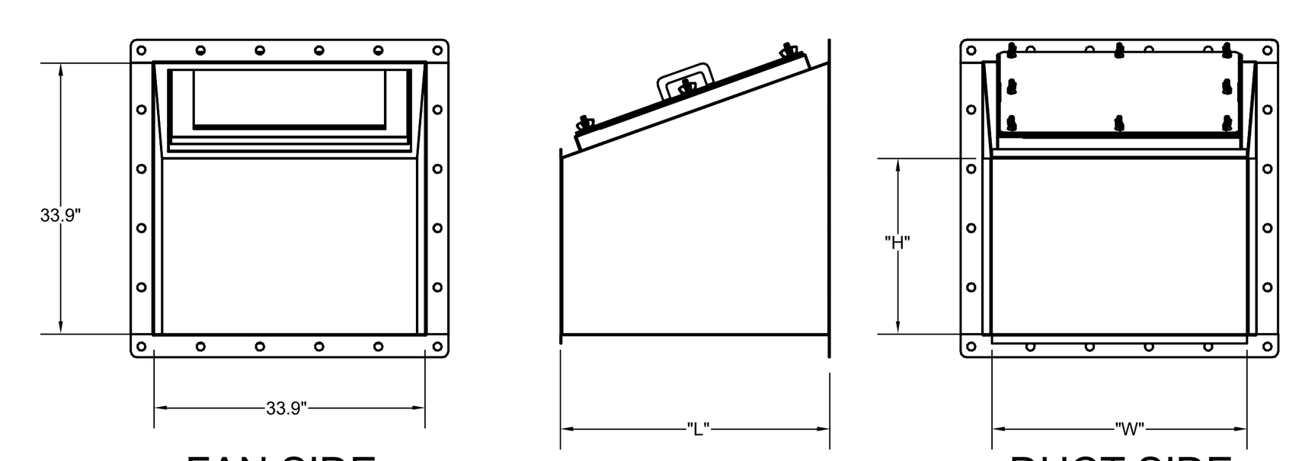
	"Wi"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1	8	14	16	16	12	8	34	17
EF-2	8	10	16	16	12	8	34	17



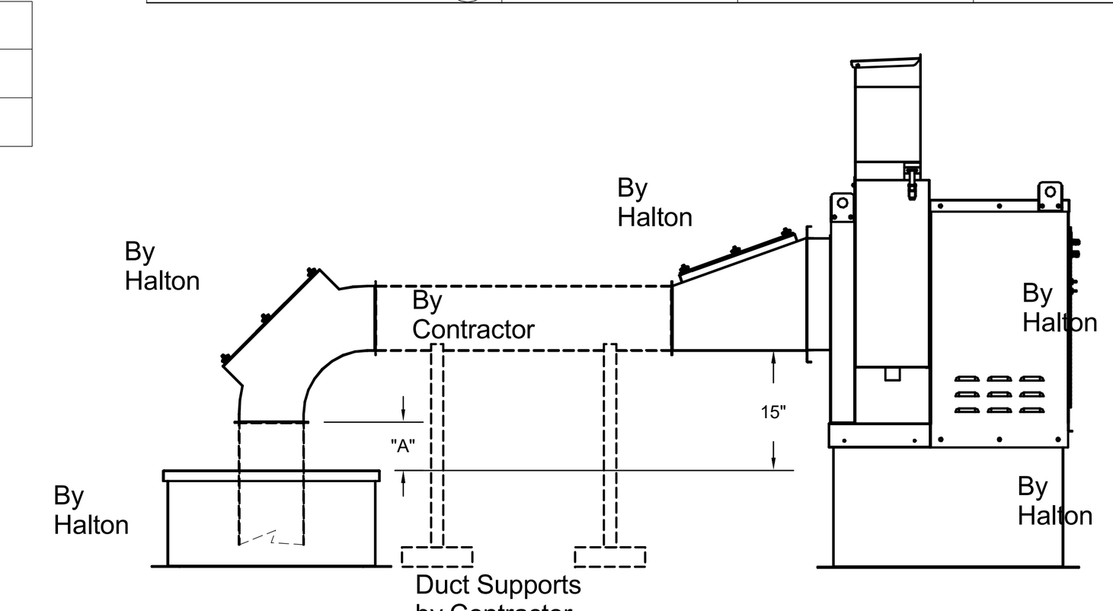
	"W"	"H"
EF-1	16	14



"H"	"W"	"A"	Ro	Rc	Ri
14	8	29	28	21	14
8	8	17	16	12	8



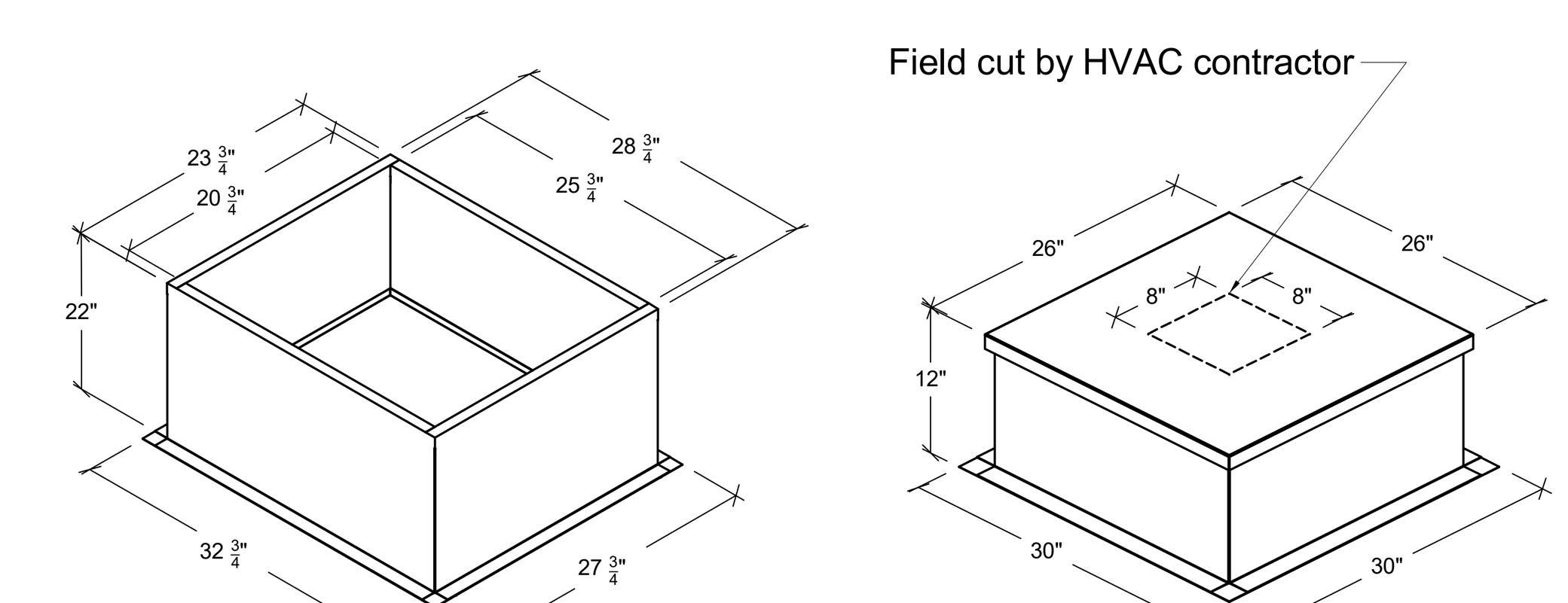
TRANSITION	"H"	"W"	"L"
EF-1 (5)	14	16	25
EF-2 (6)	10	16	17



"A" DISTANCE AVAILABLE FOR DUCT SLOPE

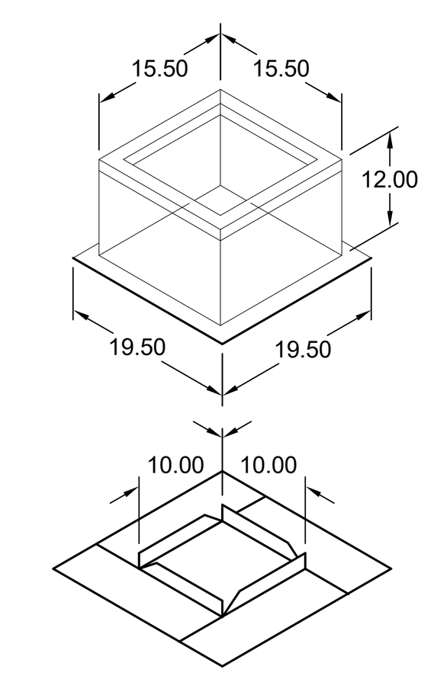
	ELBOW	"A"
EF-1	14X8	8
EF-2	8X8	10

Halton Kitchen Exhaust Fan Curb
Insulated Duct Curb



Kitchen Exhaust Fan Roof Curb
Standard Construction Features:
- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of 18 ga aluminized steel - Straight Sided without a cant - 2 in. mounting flange - Height is 22 in.

Insulated Duct Curb
Standard Construction Features:
- Duct Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of 18 ga aluminized steel - Straight Sided without a cant - 2 in. mounting flange - Height is 12 in. - 16 ga. cap



Model: GPI
For Model: XRED-090-VG
Curb & Damper Tray

Accessories

Material	Security Bars	Liner	Insulation (in.)	Insulation R Value
Galvanized	No	No	1	R4.3

General

Tag	Qty	Model	Sizing Method	Undersizing (in.)	Weight (lb)	Shipped Assembled	Union Label
EF-3	1	GPI-17	Nominal	1.5	14	Yes	No Preference

Dimensions

Curb Height (in.)	Nominal Outside Width (in.)	Nominal Outside Length (in.)	Actual Outside Width (in.)	Actual Outside Length (in.)	Actual Inside Width (in.)	Actual Inside Length (in.)	Flange Width (in.)	Flange Length (in.)	Hinge Base Width* (in.)	Hinge Base Length* (in.)
12	17	17	15.5	15.5	12	12		19.5	16	

*May not be applicable

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

REV.	REVISION DESCRIPTION	BY	DATE
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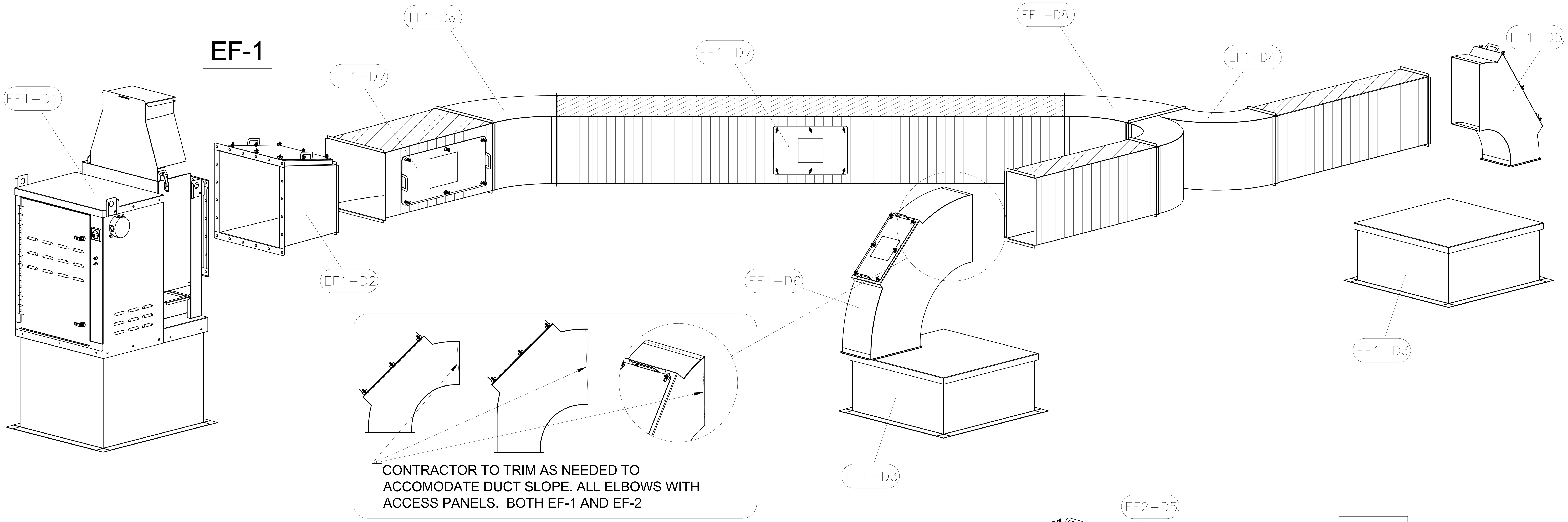
5			
6			
7			

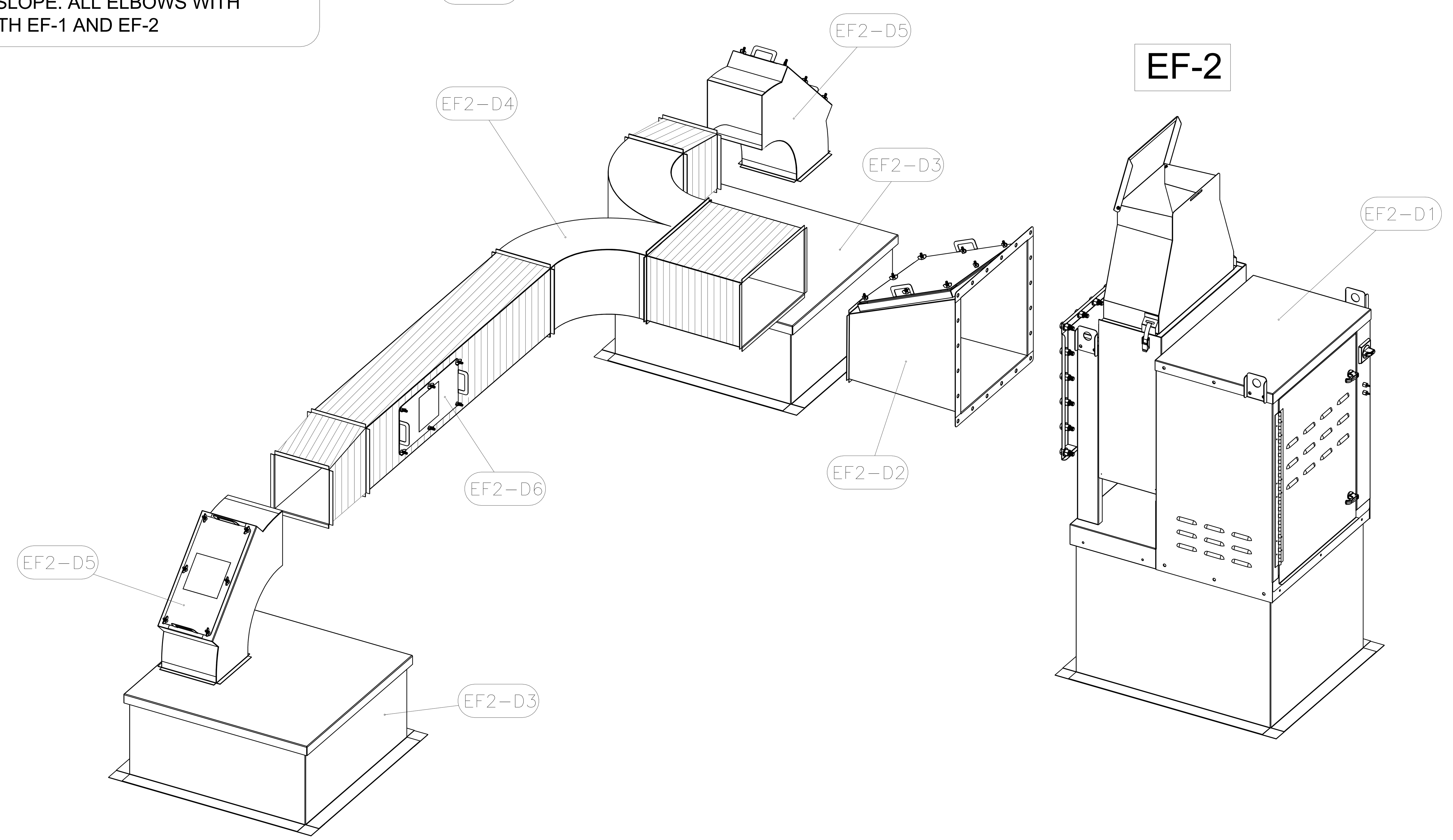
PROJECT: **CHICK-FIL-A**
LOCATION: Oldham Village FSU
SN#: 05248
DRAWN BY:
DATE: 11/15/2024
SCALE: NTS
Halton Dwg:

Halton
CARE FOR INDOOR AIR

Sheet
MH-1.4

FOR REFERENCE ONLY





EXHAUST FAN #1 (EF-1)		
ITEM	DESCRIPTION	QTY
EF1-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF1-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1
EF1-D3	DUCT ROOF CURB W/ CAP 26X26X12	2
EF1-D4	LONG SWEEPING WYE 14X8	1
EF1-D5	LONG SWEEPING ELBOW TRANS W/ UL LISTED ACCESS PANEL 8X8 TO 8X14	1
EF1-D6	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1
EF1-D7	UL LISTED ACCESS PANEL 10X15	2
EF1-D8	45° 14X16	2

EXHAUST FAN #2 (EF-2)		
ITEM	DESCRIPTION	QTY
EF2-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF2-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1
EF2-D3	DUCT ROOF CURB W/ CAP 26X26X12	2
EF2-D4	LONG SWEEPING WYE 8X10	1
EF2-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	2
EF2-D6	UL LISTED ACCESS PANEL 7X15	1

-CONTACT HALTON CUSTOMER SERVICE FOR HALTON PROVIDED ITEMS ONLY DUCT SECTIONS SPECIFIED BY NUMBERS AND SHOWN IN THE ABOVE CHART ARE PROVIDED BY HALTON

-ALL OTHER DUCTS AND FITTINGS BY HVAC CONTRACTOR. DUCT SECTIONS PROVIDED BY HVAC CONTRACTOR ARE SHOWN IN ORDER TO DEPICT TOTAL SYSTEM DESIGN. DUCT SECTIONS SHOWN WITH UL LISTED ACCESS PANELS, THAT ARE NOT HALTON PROVIDED LONG SWEEPING ELBOWS OR FAN TRANSITIONS, ARE PROVIDED BY HVAC CONTRACTOR. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.

-ALL DUCTS AND FITTINGS DEPICTED BY HATCH AREAS ARE BY HVAC CONTRACTOR.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
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REV.	REVISION DESCRIPTION	BY	DATE
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PROJECT: CHICK-FIL-A
LOCATION: Oldham Village FSU
SN#: 05248
DRAWN BY:
DATE: 11/15/2024
SCALE: NTS
Halton Dwg:

Sheet MH-1.5

DIVISION 15 SPECIFICATIONS

PART I - PRODUCTS

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE JOINED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

O. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION

2.01 TRENCHING

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 4" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

2.03 TESTING

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH, WATTS, MODEL NUMBERS LISTED ON FIXTURE SCHEDULE.

C. ALL FIXTURES NOTED ABOVE AND IN THE PLUMBING FIXTURE SCHEDULE SHALL BE SUPPLIED THROUGH A NATIONAL ACCOUNT PROGRAM.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. REFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

PLUMBING GENERAL NOTES

DRAIN WASTE AND VENT NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
3. ALL UNDERGROUND VENT PIPING TO BE 2" DIAMETER MIN U.N.O.
4. ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

WATER DISTRIBUTION NOTES

1. FOR WATER HEATER INSTALLATION POSITION VALVES AND TRIM SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.
2. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
3. SEE KITCHEN DRAWINGS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS AND ELEVATIONS.
4. WATER HEATER PIPING IS SHOWN FOR BRADFORD WHITE. ADJUST PIPING AS NEEDED TO ACCOMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
5. ALL OVERHEAD WATER PIPING SHALL BE LOCATED ABOVE THE CEILING. RUN WATER PIPING THROUGH JOIST WEBBING. COORDINATE ALL DROP LOCATIONS WITH OTHER TRADES.

BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTALA OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-104 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-101 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
5. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN ON 1/P-104 AND DETAIL 9/P-501.

ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
FS	FLOOR SINK
FD	FLOOR DRAIN
FV	FLUSH VALVE
FCO	FLOOR CLEAN OUT
WC	WATER CLOSET
KEQ	KITCHEN EQUIPMENT

LEGEND

	DOMESTIC COLD WATER LINE (DASHED)
	DOMESTIC HOT WATER LINE (DOUBLE DASHED)
	DOMESTIC HOT WATER RETURN LINE (DOUBLE DOT)
	DOMESTIC FILTERED WATER LINE (DASH DOT)

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FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/08/2024
DRAWN BY CH

SHEET
PLUMBING SPECIFICATIONS, GENERAL NOTES & LEGENDS

SHEET NUMBER
P-001

2021 IECC Commissioning Requirements for Plumbing

2021 IECC COMMISSIONING REQUIREMENTS

C408.1 SERVICE WATER HEATING SYSTEMS SHALL BE DOCUMENTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.1.1 PROVIDE AN OPERATION AND MAINTENANCE MANUAL WHICH INCLUDES THE FOLLOWING:

1. PROVIDE SERVICE WATER HEATING EQUIPMENT SUBMITTAL DATA.
2. PROVIDE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR SERVICE WATER HEATING EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE SERVICE WATER HEATING SERVICE AGENCY.
4. PROVIDE SERVICE WATER HEATING CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES. TENANT DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR IN SYSTEM PROGRAMMING INSTRUCTIONS.
5. PROVIDE A NARRATIVE OF HOW EACH SERVICE WATER HEATING SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C408.2 COMMISSIONING OF SERVICE WATER HEATING SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.1 A COMMISSIONING PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH THIS SECTION AND SHALL INCLUDE THE FOLLOWING ITEMS.

1. A NARRATIVE DESCRIPTION OF THE ACTIVITIES TO BE PERFORMED.
2. A LIST OF THE SYSTEMS AND EQUIPMENT REQUIRED TO BE COMMISSIONED.
3. A LIST OF THE TEST FUNCTIONS TO BE PERFORMED ON THE CORRESPONDING EQUIPMENT.
4. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED.
5. MEASUREABLE CRITERIA FOR PERFORMANCE.

C408.2.2 NOT APPLICABLE TO SERVICE WATER HEATING.

C408.2.3 PERFORM FUNCTIONAL PERFORMANCE TESTING IN ACCORDANCE WITH THE FOLLOWING SECTIONS.

C408.2.3.1 PERFORM FUNCTIONAL PERFORMANCE TESTING FOR SERVICE WATER HEATING EQUIPMENT IN ORDER TO DEMONSTRATE THE OPERATION OF COMPONENTS, SYSTEMS AND SYSTEM-TO-SYSTEM INTERRACTION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER REQUIREMENTS. TESTING SHALL INCLUDE ALL APPLICABLE OPERATING CONDITIONS.

C408.2.3.2 SERVICE WATER HEATING SYSTEMS SHALL BE TESTED IN ORDER TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED AND ADJUSTED TO OPERATE IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. SERVICE WATER HEATING CONTROL SYSTEMS SHALL BE TESTED FOR ALL OPERATING MODES LISTED IN THE SEQUENCE OF OPERATION AS DEFINED IN THE CONSTRUCTION DOCUMENTS.

C408.2.3.3 NOT APPLICABLE TO SERVICE WATER HEATING.

C408.2.4 COMPLETE A PRELIMINARY COMMISSIONING REPORT OUTLINING TEST PROCEDURES AND RESULTS IN ACCORDANCE WITH THIS SECTION. THE REPORT SHALL IDENTIFY:

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF THE REPORT PREPARATION DUE TO CLIMATIC CONDITIONS.
3. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.
4. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
5. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS, INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE.

C408.2.4.1 THE OWNER SHALL RECEIVE A COPY OF THE PRELIMINARY COMMISSIONING REPORT BEFORE FINAL INSPECTION BY THE CODE OFFICIAL OCCURS.

C408.2.4.2 THE PRELIMINARY COMMISSIONING REPORT SHALL BE MADE AVAILABE TO THE PROJECT CODE OFFICIAL UPON REQUEST.

C408.2.5 COMMISSIONING DOCUMENTATION OUTLINED IN SECTION C408 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.2.5.1 NOT APPLICABLE TO SERVICE WATER HEATING.

C408.2.5.2 PROVIDE A FINAL COMMISSIONING REPORT TO THE OWNER INCLUDING THE FOLLOWING.

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TESTING PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED FOR REPEATABILITY.
4. LIST OUT ANY DEFERRED TESTS STILL OUTSTANDING DUE TO CLIMATIC CONDITIONS.

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BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/08/2024
DRAWN BY CH

SHEET
COMMISSIONING REQUIREMENTS - PLUMBING

SHEET NUMBER
P-002

KEY NOTES

17 APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR. PROVIDE P-TRAP IN CONDENSATE DRAIN ON COOLER SIDE OF COOLER-FREEZER PANEL WALL WITH OPEN-TOPPED TEE AT TRAP OUTLET. PROVIDE 6" OF FALL IN FREEZER DRAIN LINE PRIOR TO PENETRATING PANEL WALL.

30 LOCATION OF GREASE INTERCEPTOR SHOWN FOR REFERENCE ONLY - SEE DETAIL SHEET FOR MORE INFORMATION, SEE CIVIL DRAWINGS FOR ACTUAL LOCATION OF THE GREASE INTERCEPTOR ON SITE.

31 INSTALL FLOOR DRAIN FD-5 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF. PROVIDE TRAP PRIMER (TP-1) WHERE TRAP PROTECTION DEVICES IS NOT PERMITTED BY LOCAL CODE OR AHJ.

39 PROVIDE TRAP SEAL PROTECTION DEVICE.

59 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO INDIRECT DRAIN. SECURE PIPING TO COOLER/FREEZER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP.

67 INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS. ALL CONDENSATE PIPING SHALL BE SLOPED A MIN. 1/4" PER FOOT.

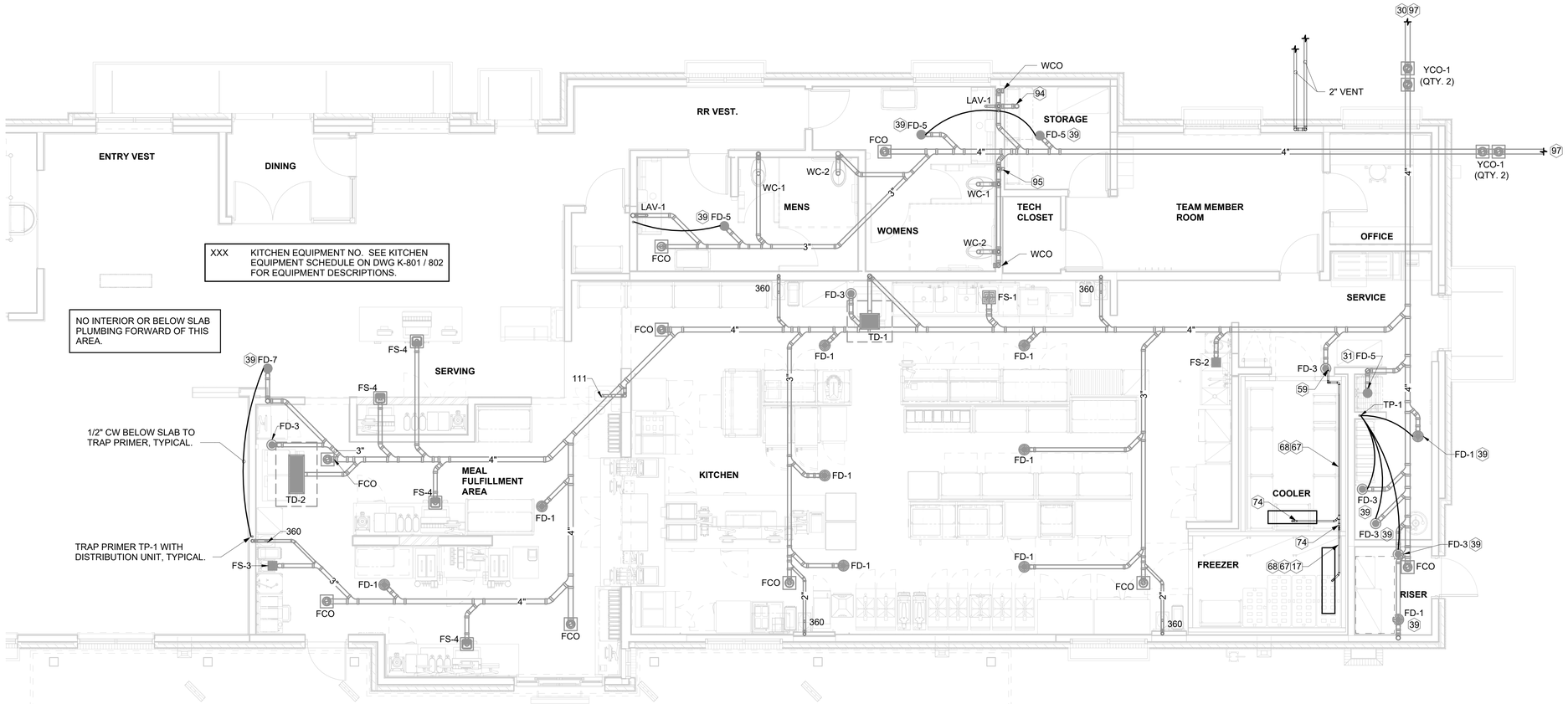
68 3/4" TYPE L COPPER. COVER WITH 1-3/8" I.D. X 3/4" ARMACELL A/P ARMAFLEX OVER HEAT TRACE CABLE.

74 INSTALL TRAP IN CONDENSATE PIPE.

94 3" PIPE STUB FOR FUTURE WATER CLOSET CAPPED BELOW SLAB.

95 1-1/2" PIPE STUB FOR FUTURE SINK CAPPED BEHIND WALL.

97 SEE CIVIL DRAWINGS FOR CONTINUATION.



1 DRAIN WASTE AND VENT PLAN
1/4" = 1'-0"

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CONSULTANT PROJECT # 24137.CD.S
DATE 11/08/2024
DRAWN BY CH

SHEET
DRAIN WASTE AND VENT PLAN

SHEET NUMBER
P-101

NOTE OF SPECIAL IMPORTANCE:

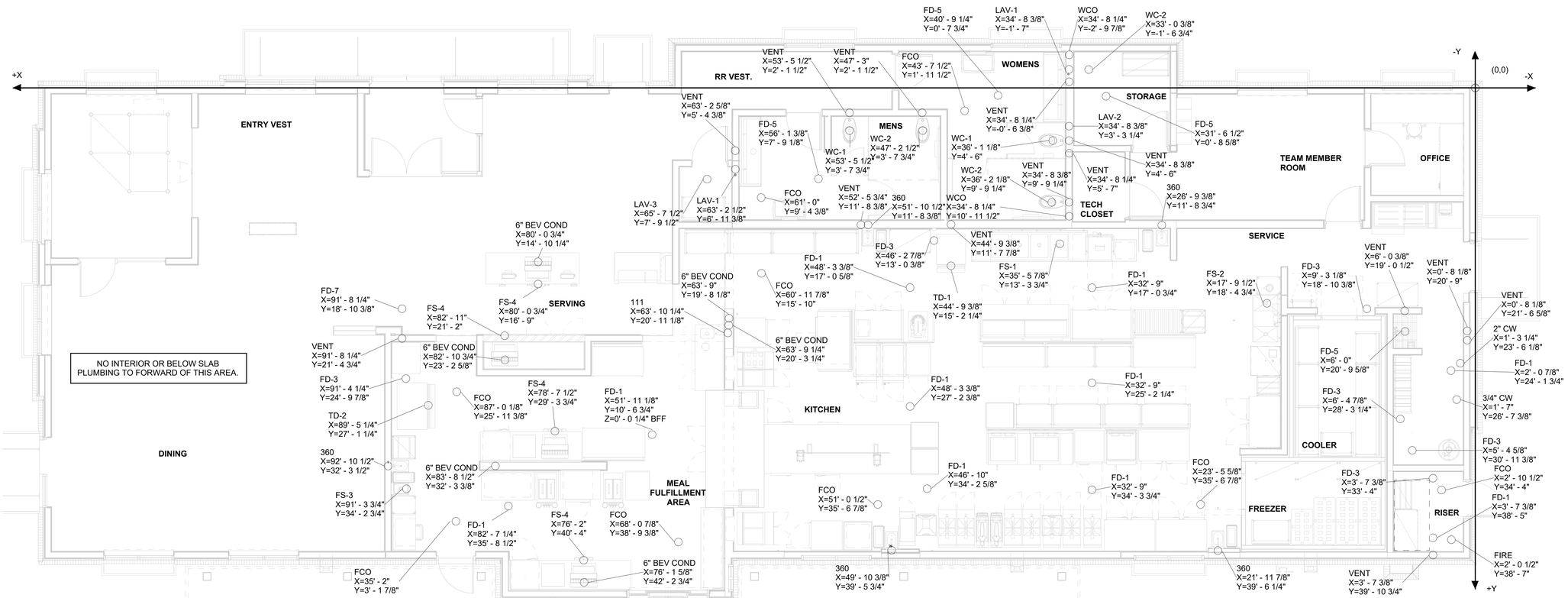
BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE-OF-FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN.

2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN.

3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAILS FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



1 UNDERGROUND ROUGH-IN PLAN
1/4" = 1'-0"

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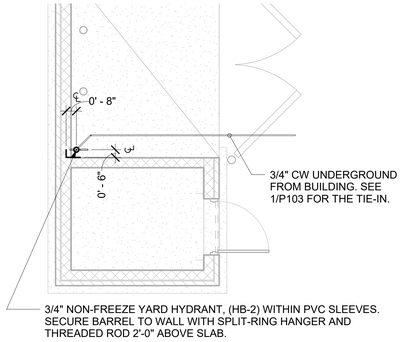
DATE 11/08/2024
DRAWN BY CH

SHEET
UNDERGROUND ROUGH-IN PLAN

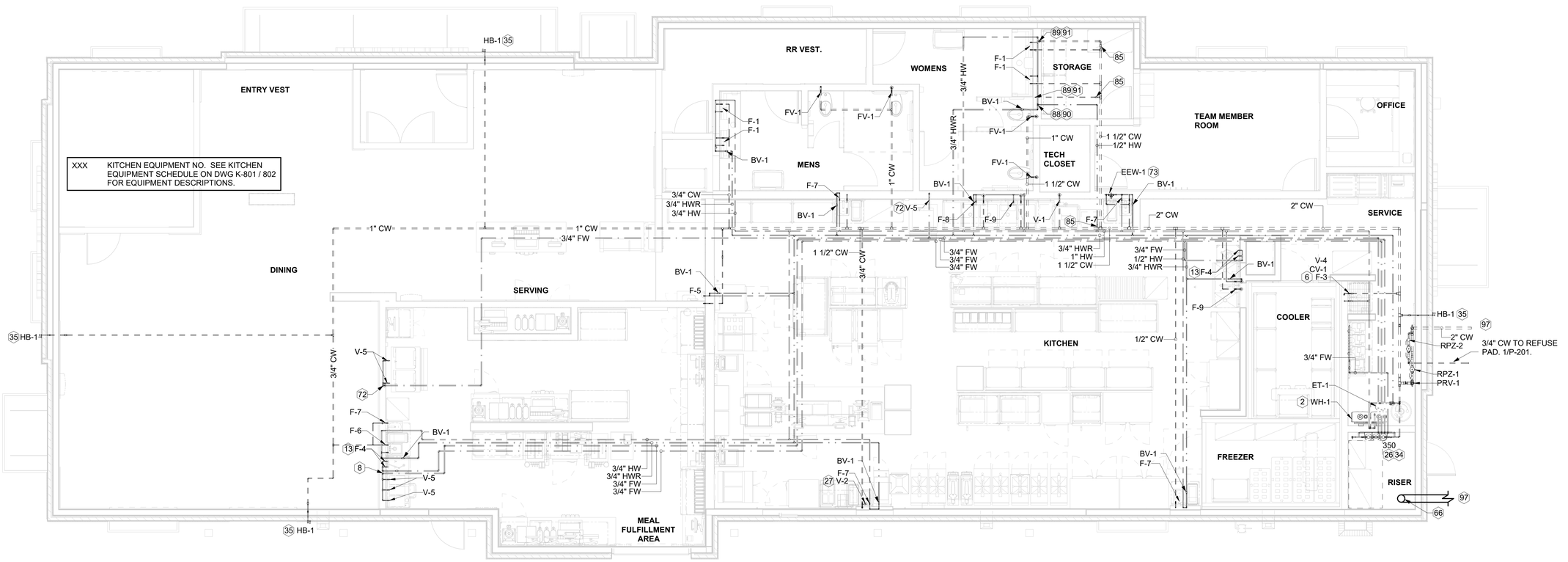
SHEET NUMBER
P-102

KEY NOTES

2 GAS DOWN FROM ROOF FOR WATER HEATER. SEE MECHANICAL ROOF PLANS FOR CONTINUATION AND PIPE SIZE.
6 1/2" HW AND CW DROPS TO MOP SINK FAUCET (F-3) WITH VACUUM BREAKER FOR DEDICATED CONNECTION TO ECOLAB DETERGENT DISPENSER. INSTALL SHUT OFF AND CHECK VALVE IN HOT AND COLD WATER PIPE ABOVE CEILING. MOUNT AS SHOWN ON K-SHEETS. SEE WATER DISTRIBUTION ISOMETRIC.
8 1/2" FW FOR TWO TEA BREWERS AND ONE COFFEE MAKER. SEE DETAILS SHEET FOR MORE INFORMATION.
13 3/4" FW DOWN. SEE KITCHEN DRAWINGS FOR LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE WATER DISTRIBUTION ISOMETRIC.
26 FW FROM WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
27 1/2" CW DOWN TO RETHERMALIZER.
34 OWNER FURNISHED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
35 HOSE BIBB 24" ABOVE EXTERIOR GRADE. VERIIFY WALL THICKNESS AT EXTERIOR HOSE BIBB PRIOR TO ORDERING (TYP).
66 FIRE SPRINKLER RISER SHOWN FOR REFERENCE ONLY.
72 3/4" FW DOWN TO STOP(S) AT ICE MAKER(S). SEE DETAIL SHEET FOR MORE INFORMATION.
73 1/2" TEPID WATER TO EYEWASH #360E.
85 SHUT-OFF VALVE (N.C.) IN PIPE TO FUTURE PLUMBING FIXTURE.
88 SHUT-OFF VALVE (N.C.) IN HWR PIPE FROM FUTURE LAVATORY TO HWR LOOP.
89 CW DROP IN WALL WITH CAPPED ELBOW FOR CONNECTION TO FUTURE PLUMBING FIXTURE.
90 HW DROP IN WALL WITH CAPPED TEE FOR CONNECTION TO FUTURE PLUMBING FIXTURE.
91 PROVIDE 15x15 ACCESS PANEL IN WALL FOR ACCESS TO PIPE STUB(S).
97 SEE CIVIL DRAWINGS FOR CONTINUATION.



2 REFUSE PAD PLUMBING PLAN
1/4" = 1'-0"



1 WATER DISTRIBUTION PLAN
1/4" = 1'-0"

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CONSULTANT PROJECT # 24137.CD.S
DATE 11/08/2024
DRAWN BY CH

SHEET
WATER DISTRIBUTION PLAN

SHEET NUMBER
P-103

KEY NOTES

38 USED COOKING OIL PIPING SHALL BE SCHEDULE 80 THREADED CARBON, STAINLESS, OR GALVANIZED STEEL PIPING. PIPE THREADS SHALL BE SEALED WITH IPS WELD-ON BLUE SEAL OR EQUAL. PIPING SHALL BE ROUTED TO ALLOW A MIN. SLOPE OF 1/4" PER FOOT BACK TO THE STORAGE TANK.

57 3/4" AND 2" SCHEDULE 40 STEEL PIPES DOWN THROUGH CEILING. CAP PIPES 2" BELOW THE CEILING FOR FUTURE CONNECTION. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS.

63 BELOW SLAB BEVERAGE CONDUIT. 6" DIA SOLID-WALL SCHED 40 PVC USED AS BEVERAGE CONDUIT. NO FOAM CORE ALLOWED BELOW SLAB. USE LONG RADIUS SWEEPS. CAP EACH END DURING ROUGH-IN TO ENSURE PIPING INTERIOR REMAINS DRY AND WATER-TIGHT DURING CONSTRUCTION. SEE P-001 FOR BEVERAGE CONDUIT NOTES.

64 COORDINATE 6" BEVERAGE CONDUIT INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO BREAKING GROUND. INSTALL 6" CONDUIT DEEP ENOUGH TO ACCOMMODATE DWV AND ELECTRICAL CONDUIT IN SAME AREA. REMOVAL AND RE-INSTALLATION OF ELECTRICAL, DWV, AND/OR BEVERAGE CONDUIT DUE TO LACK OF PROPER COORDINATION SHALL BE DONE SO AT THE PLUMBING CONTRACTOR'S EXPENSE.

69 STUB OUT TO BE MOUNTED 30" AFF. SEE DETAIL SHEET FOR MORE INFORMATION.

70 EXTEND 2" STEEL PIPE BEYOND FACE OF BRICK. CAP FOR FUTURE USE. GC TO TRIM STUB-OUT ACCORDINGLY.

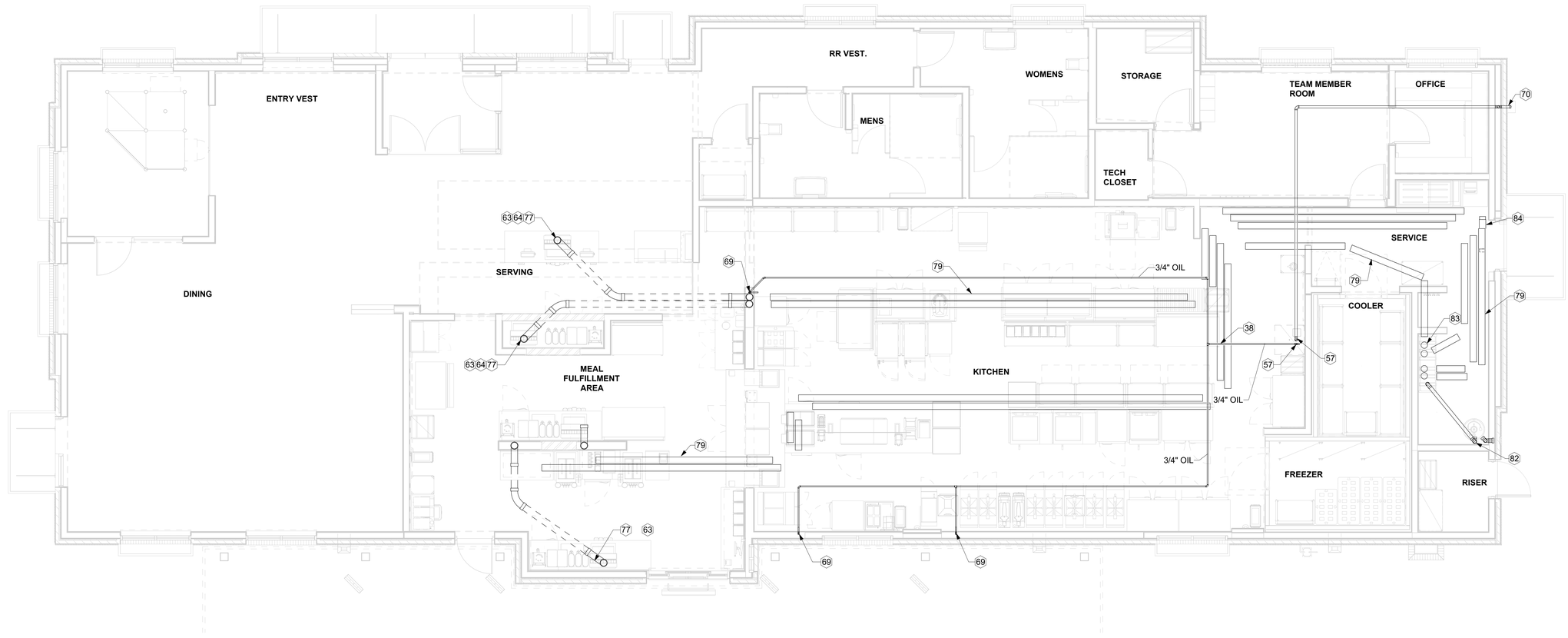
77 6" BEVERAGE CONDUIT UP FROM BELOW SLAB. COORDINATE WITH DEVICES, CONDUITS, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING.

79 ROUTE 6" BEVERAGE CONDUIT IN THIS AREA BELOW RECTANGULAR DUCT. COORDINATE CLOSELY WITH DEVICES, CONDUITS, HVAC INSTALLER, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING AND PRIOR TO INSTALLATION.

82 3" DIA SCHED 40 PVC SWEEP TURNED DOWN WITH DROP THRU ACT ABOVE BULK CO2 TANK. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION.

83 6" BEVERAGE CONDUIT TURNED DOWN THRU ACT. TYPICAL. SEE BEVERAGE CONDUIT NOTE #3 ON SHEET P-001 FOR MORE INFORMATION.

84 PLAN STORAGE TUBE ABOVE DOOR. MOUNT 6" DIA X 30" LONG PVC WITH CLEANOUT PLUGS AT EACH END. SECURE TO WALL ABOVE EMERGENCY LIGHT WITH STRUT AND CLAMPS.



1 BEVERAGE CONDUIT AND OIL PIPING PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
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Telephone: (615) 255-5203

STATE OF MISSOURI
MARK T. KURZYNSKE
E-20001520
REGISTERED PROFESSIONAL ENGINEER

11/18/24

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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PRINTED FOR
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CONSULTANT PROJECT # 24137.CD.S
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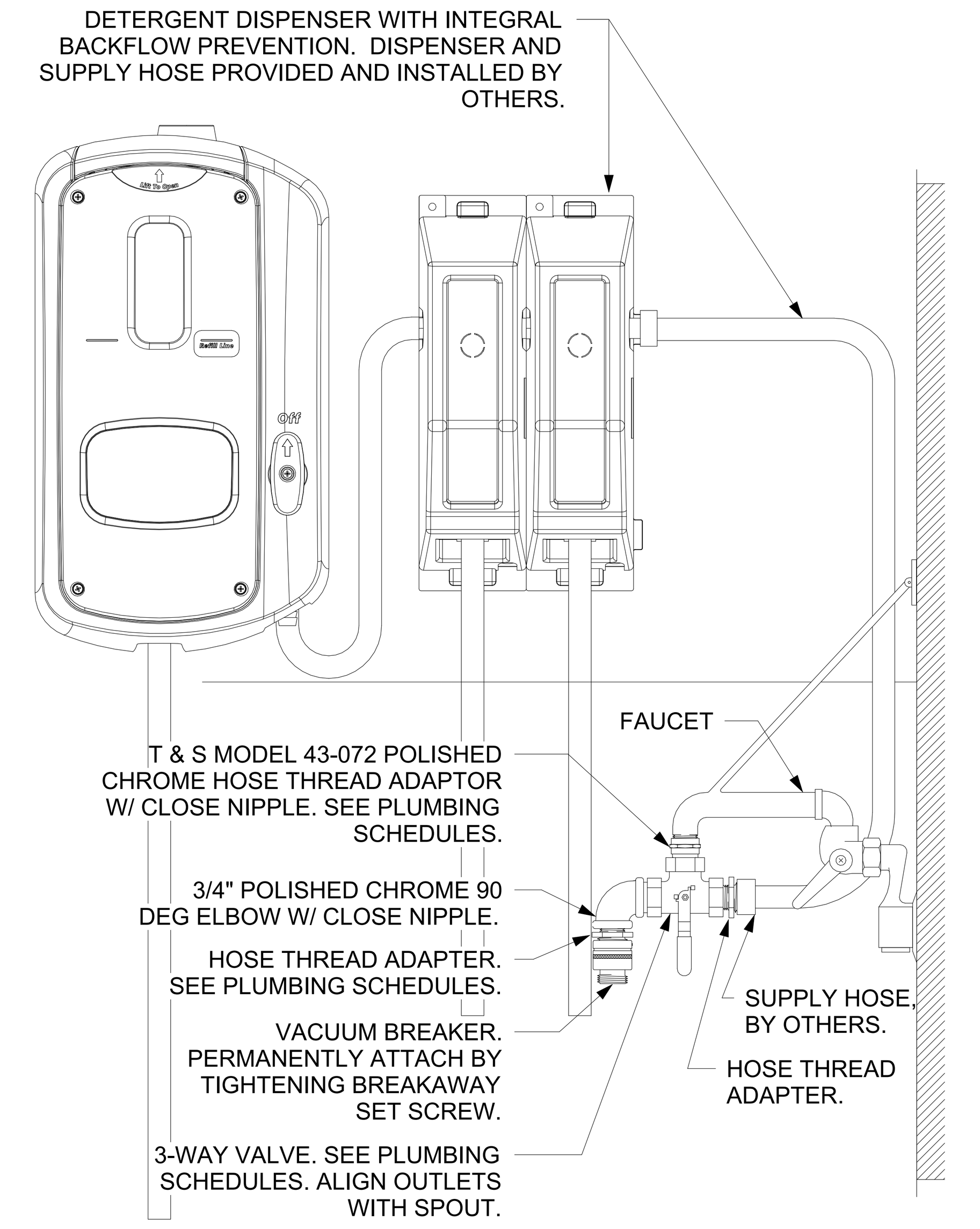
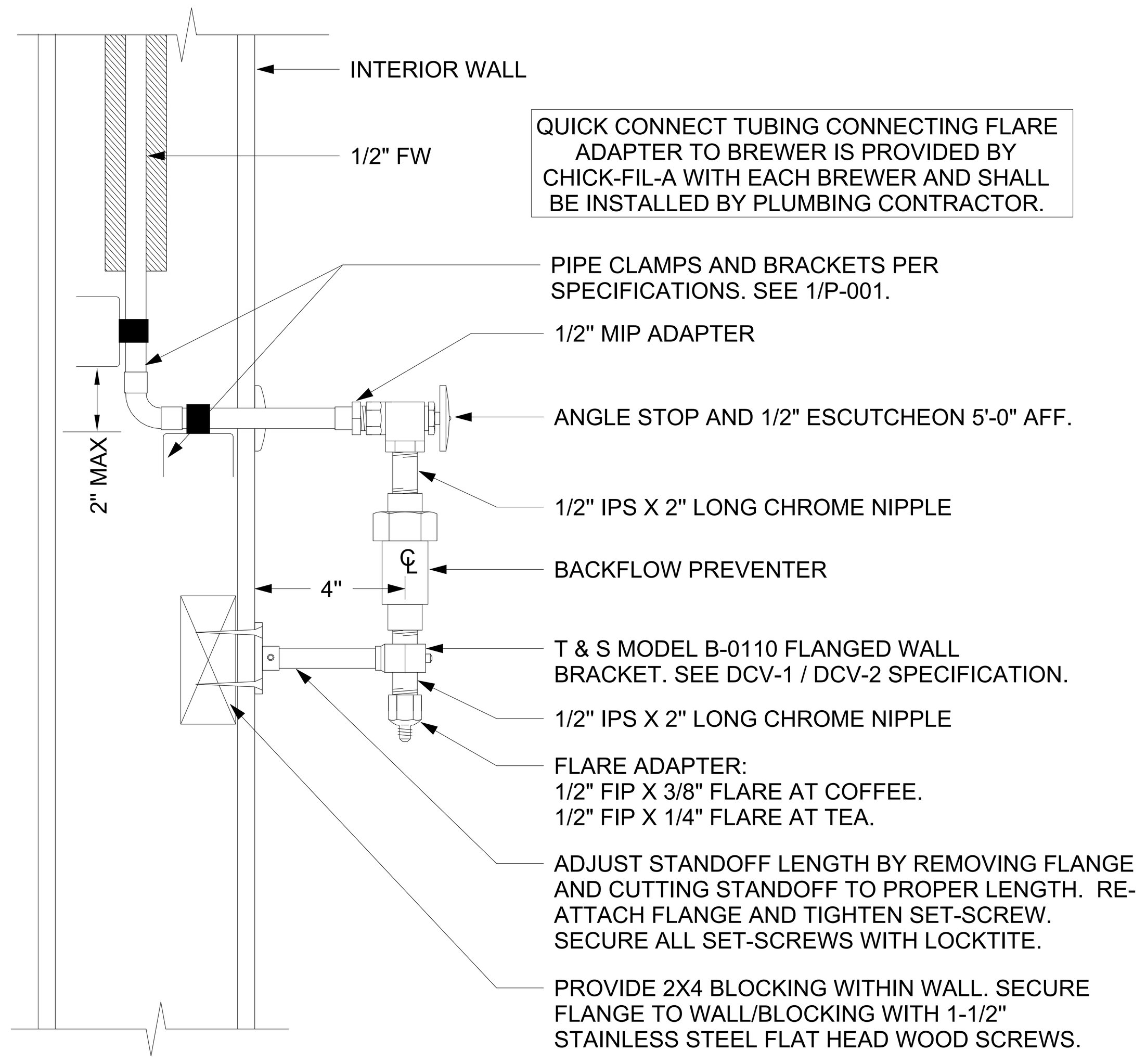
DRAWN BY CH

SHEET
BEVERAGE CONDUIT AND OIL PIPING PLAN

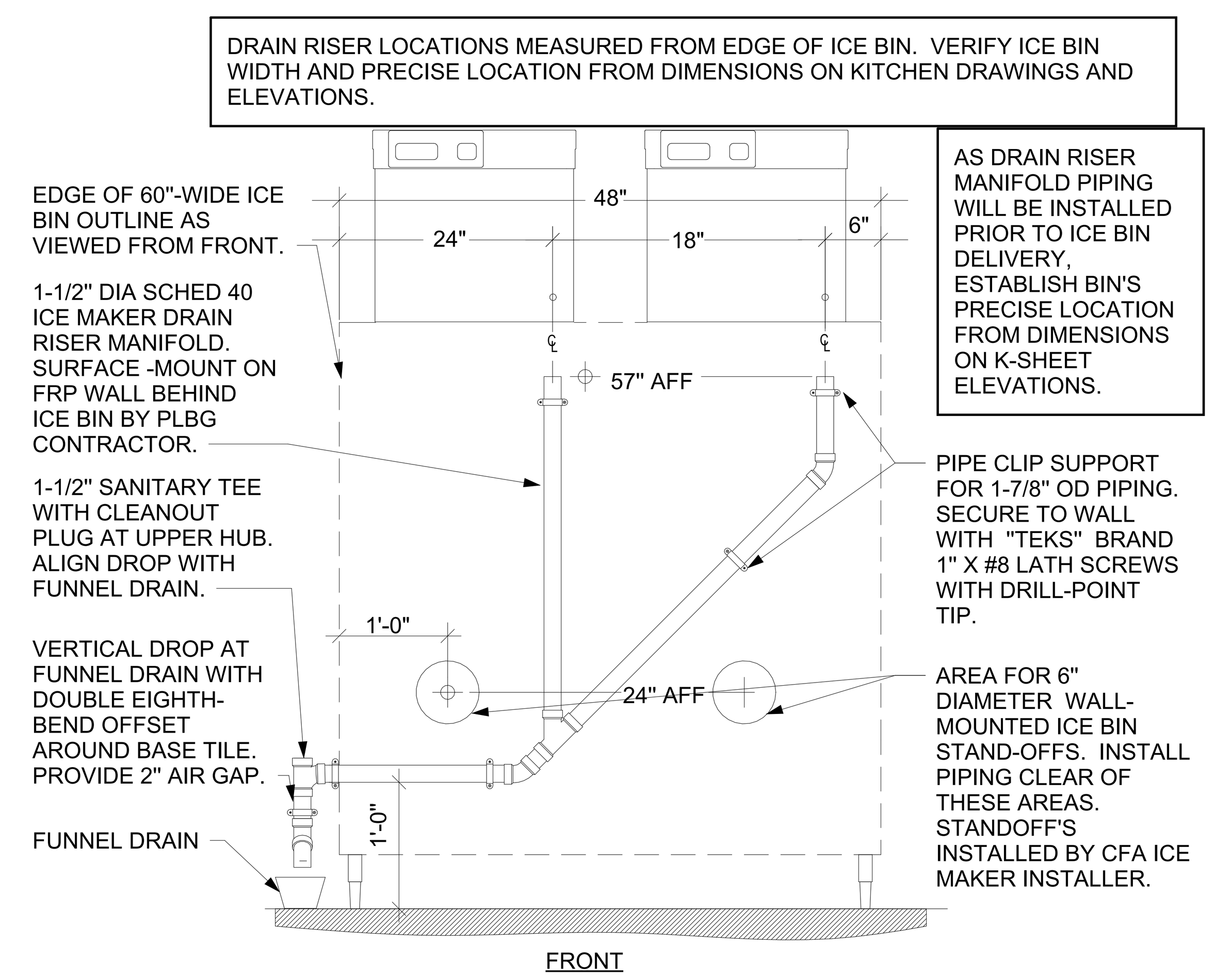
SHEET NUMBER
P-104



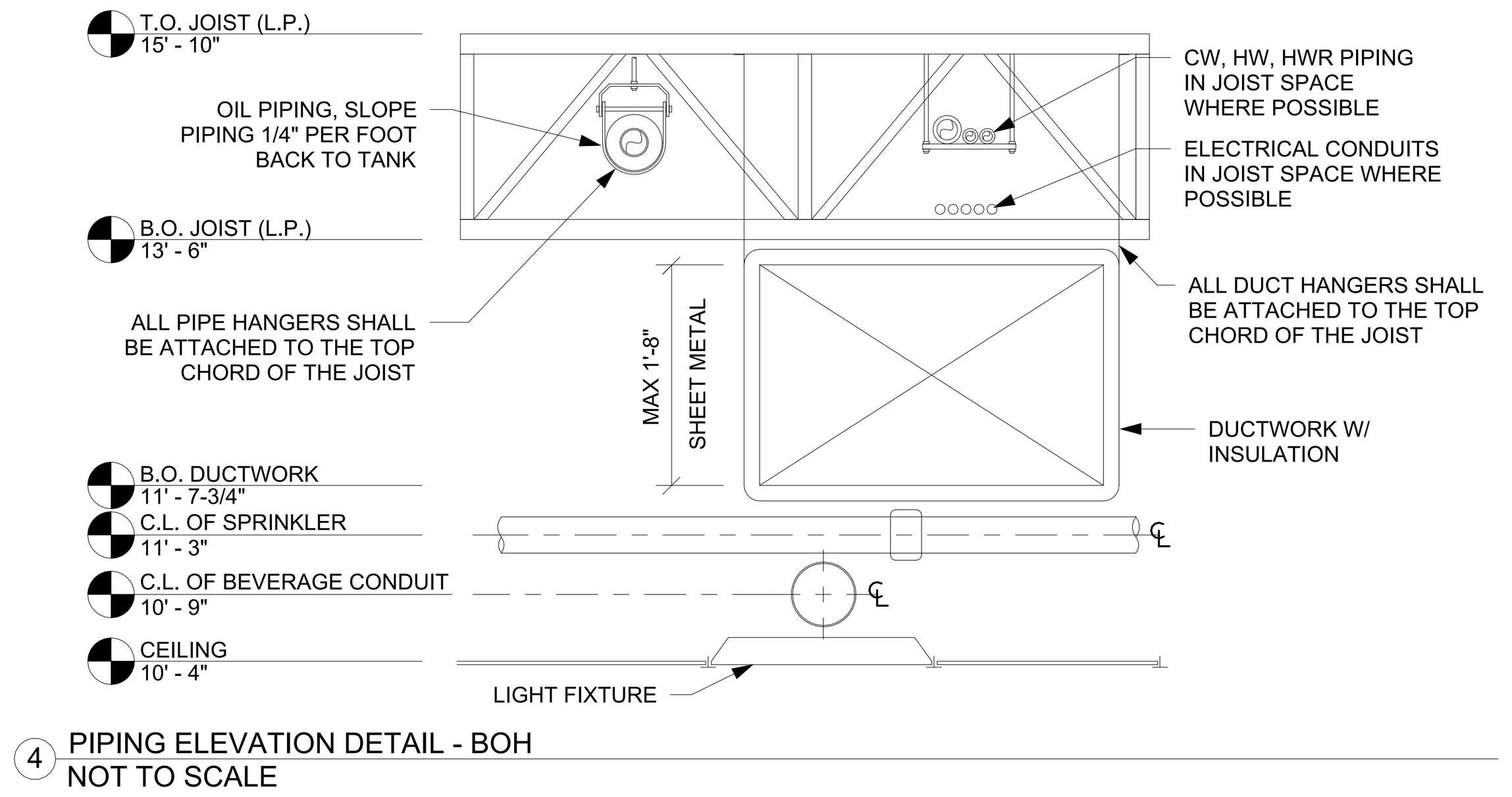
1 3-WAY VALVE AT MOP SINK
NOT TO SCALE



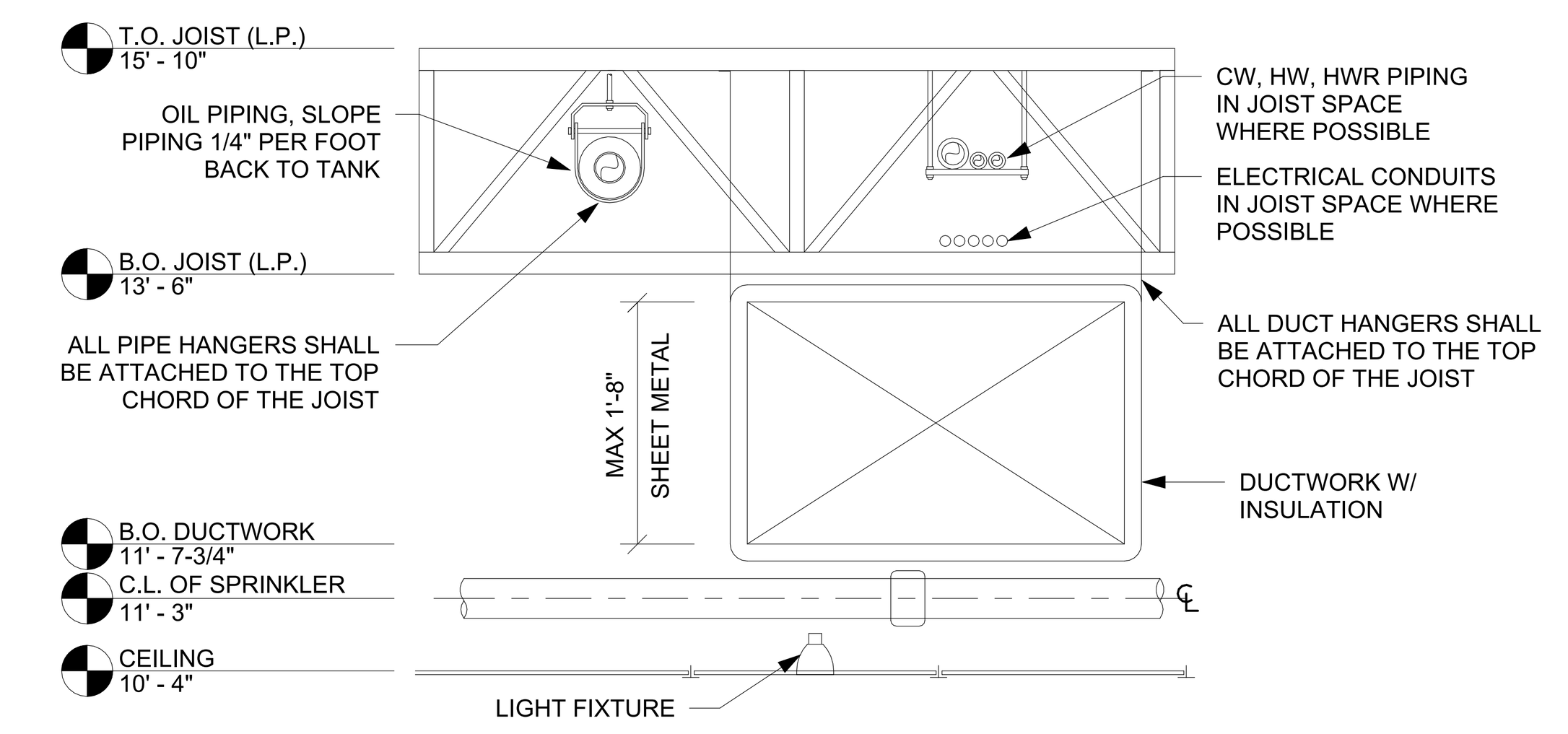
2 COFFEE & TEA BREWER STOP & BFP
NOT TO SCALE



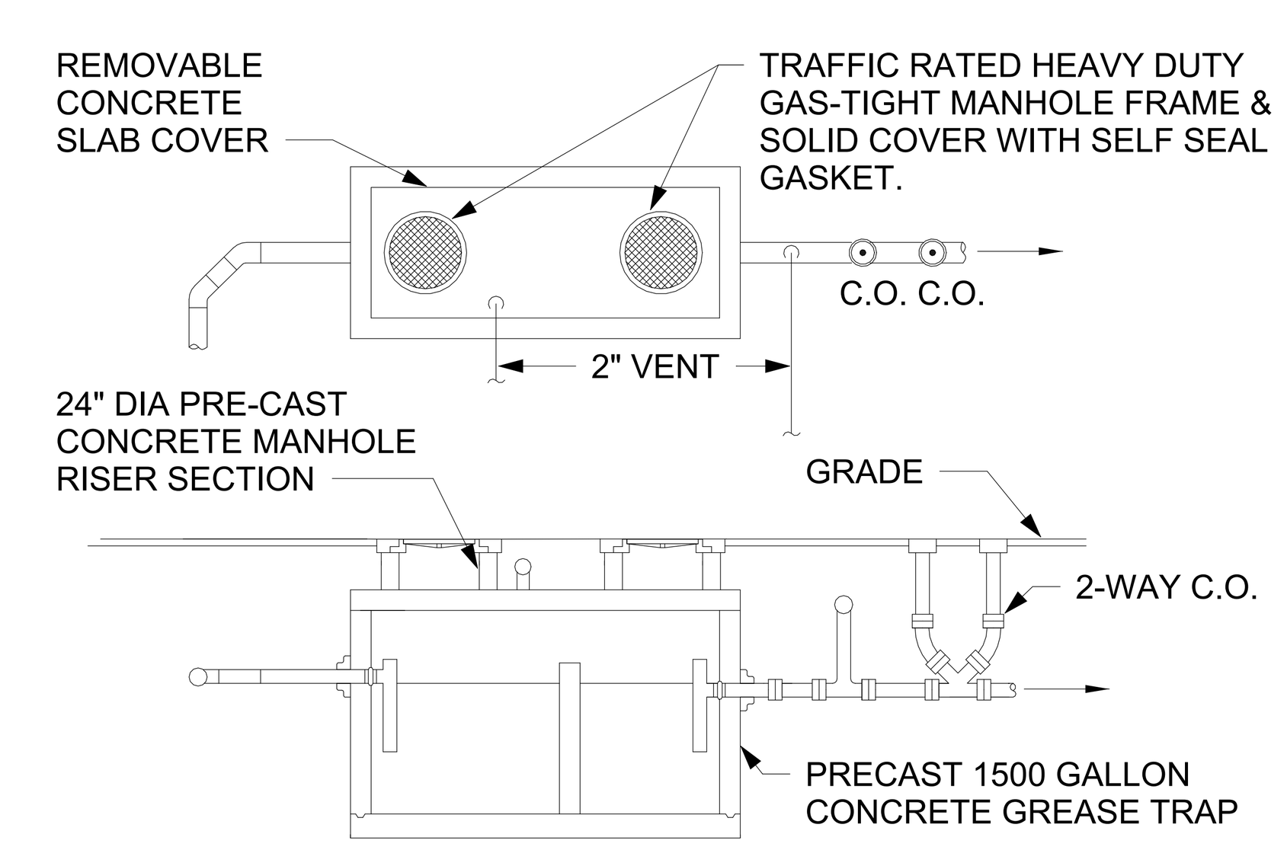
3 ICE MAKER DRAIN ON WALL
NOT TO SCALE



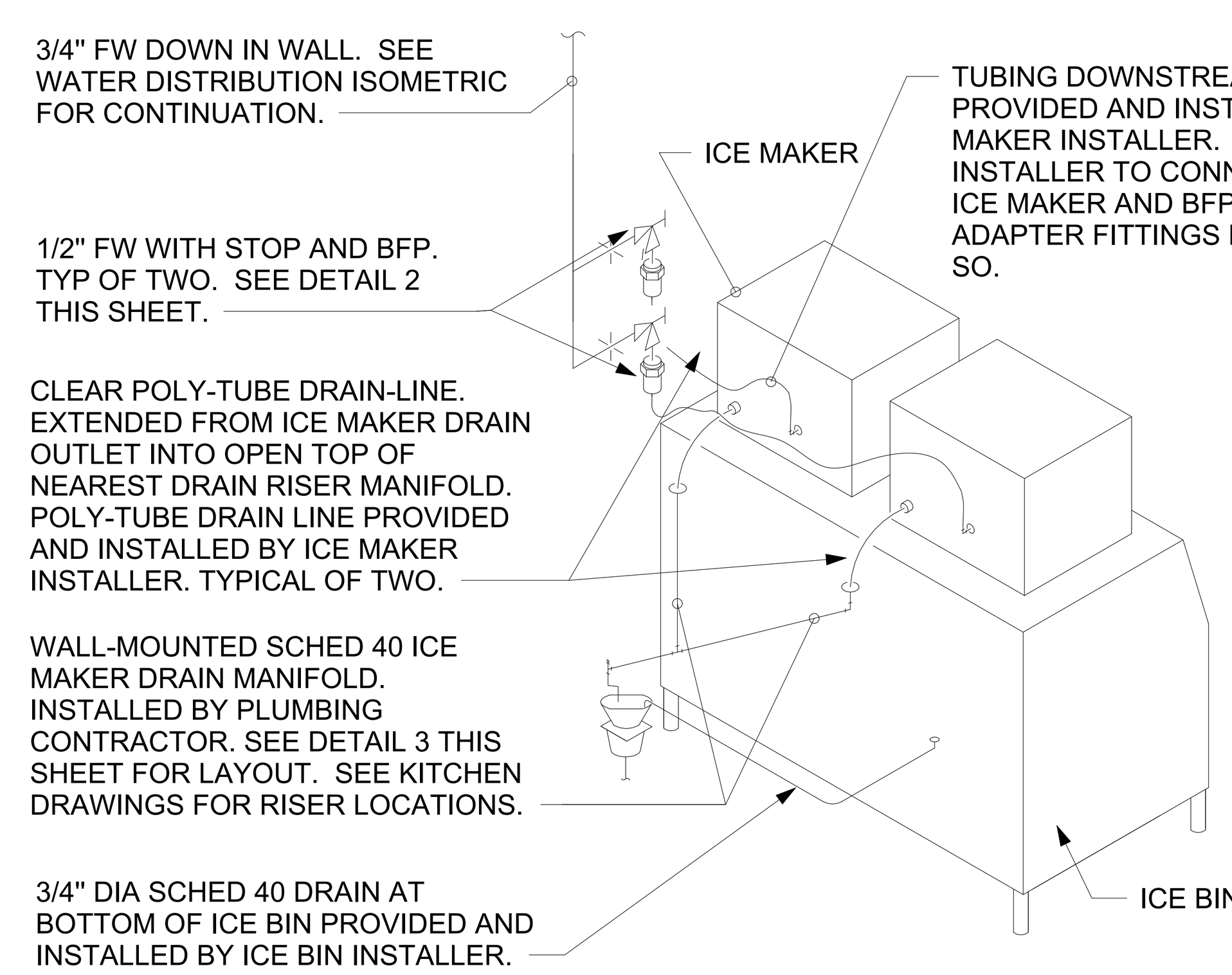
4 PIPING ELEVATION DETAIL - BOH
NOT TO SCALE



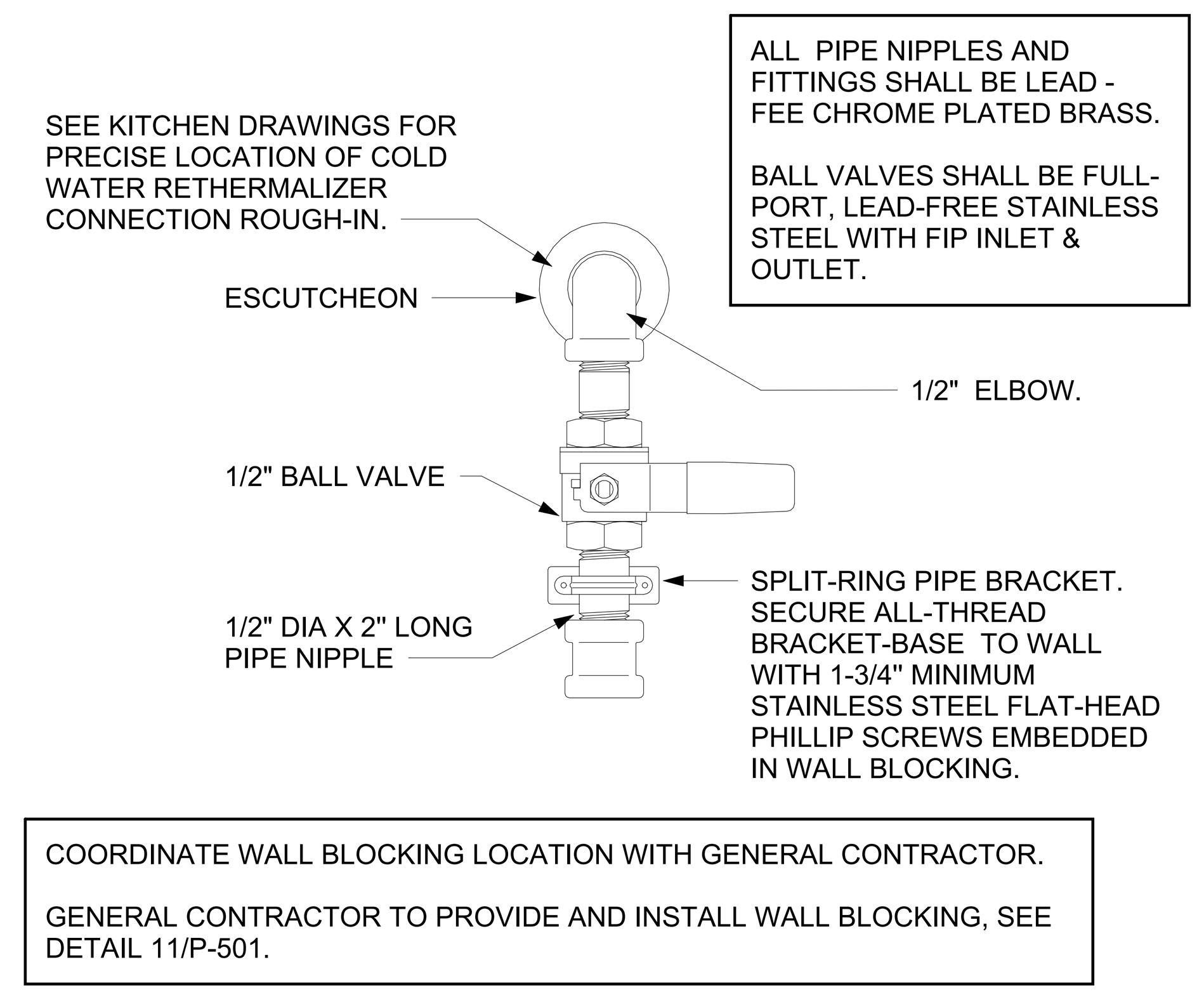
5 PIPING ELEVATION DETAIL - FOH
NOT TO SCALE



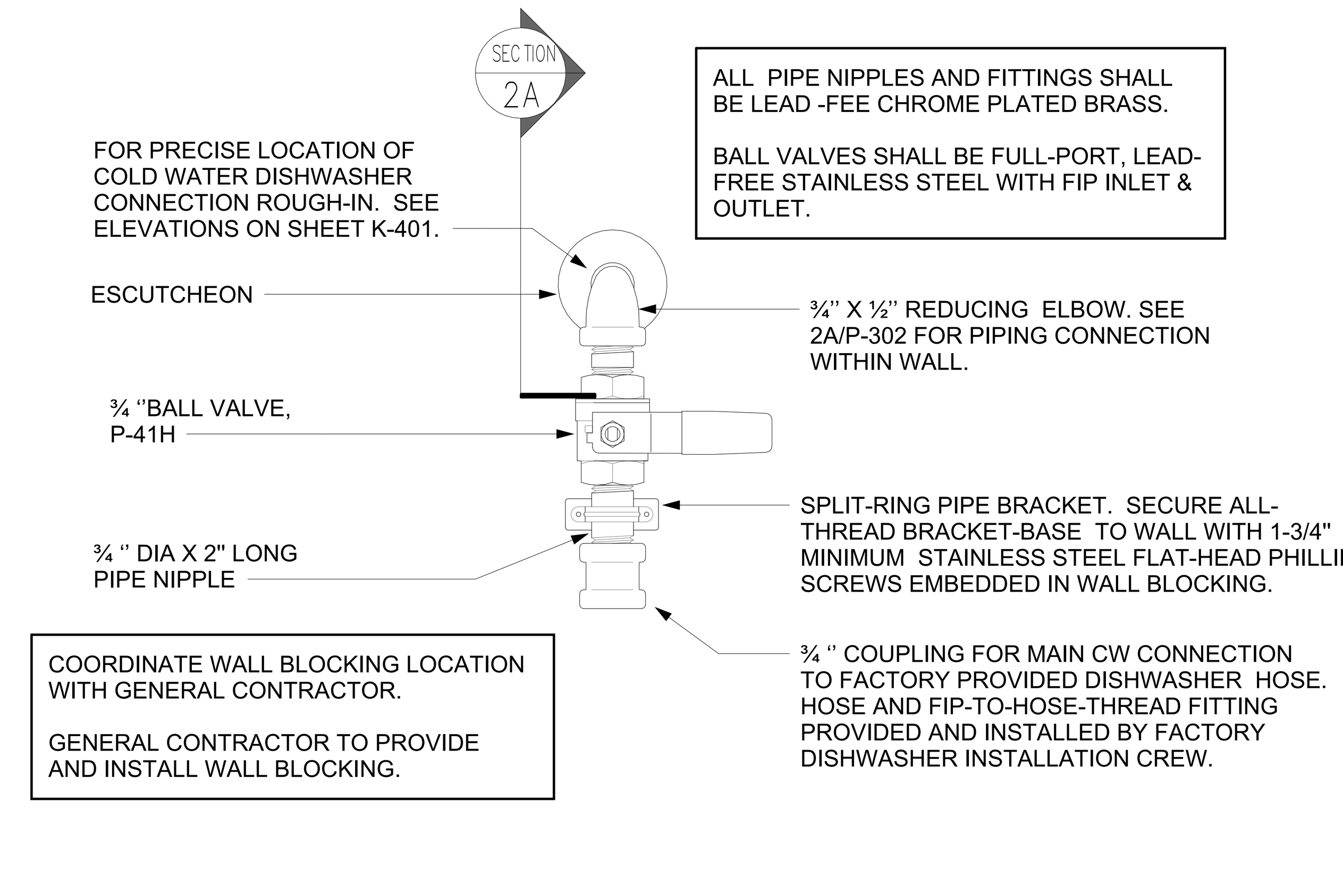
6 GREASE INTERCEPTOR
NOT TO SCALE



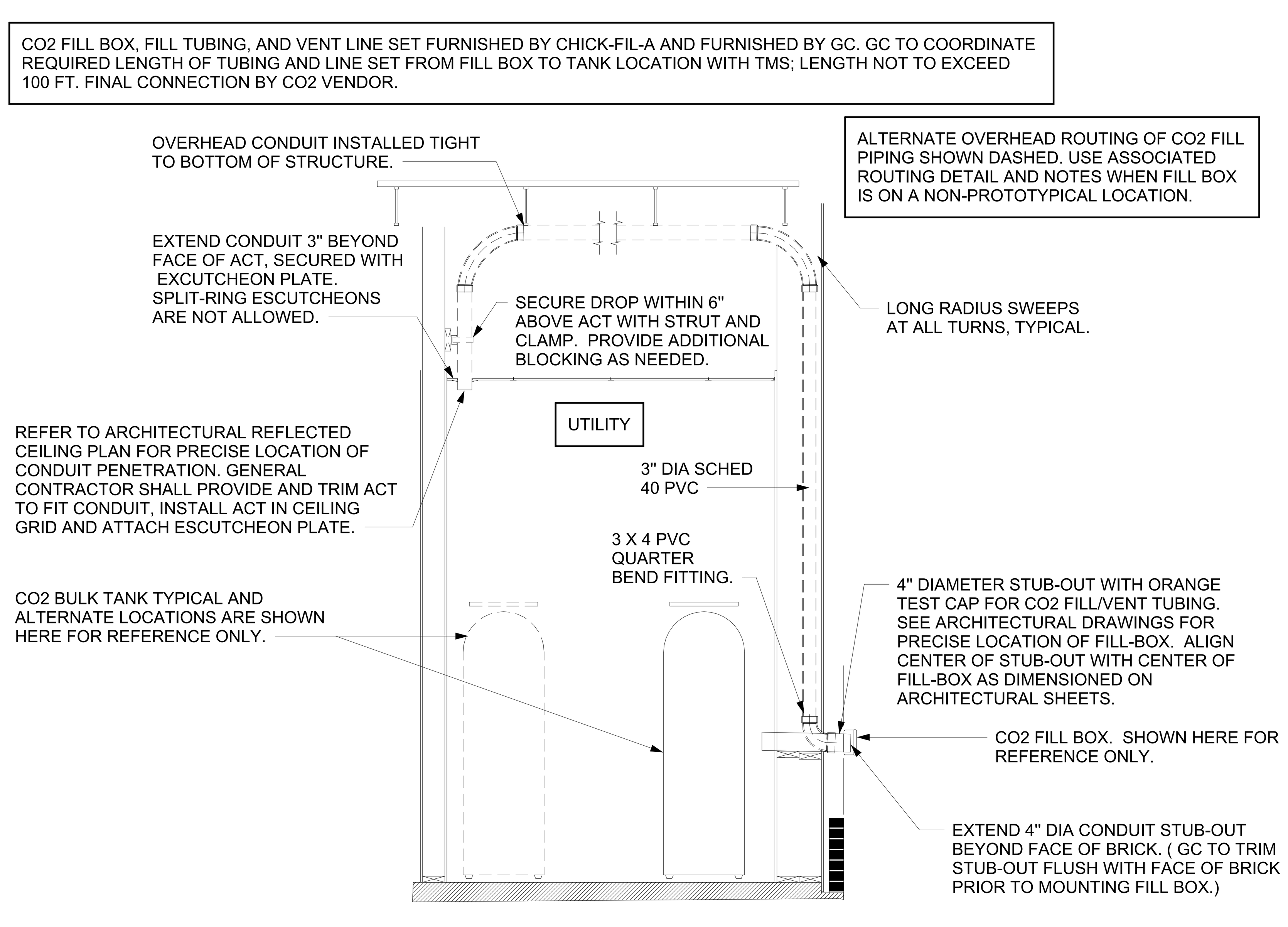
7 ICE MACHINE PIPING
NOT TO SCALE



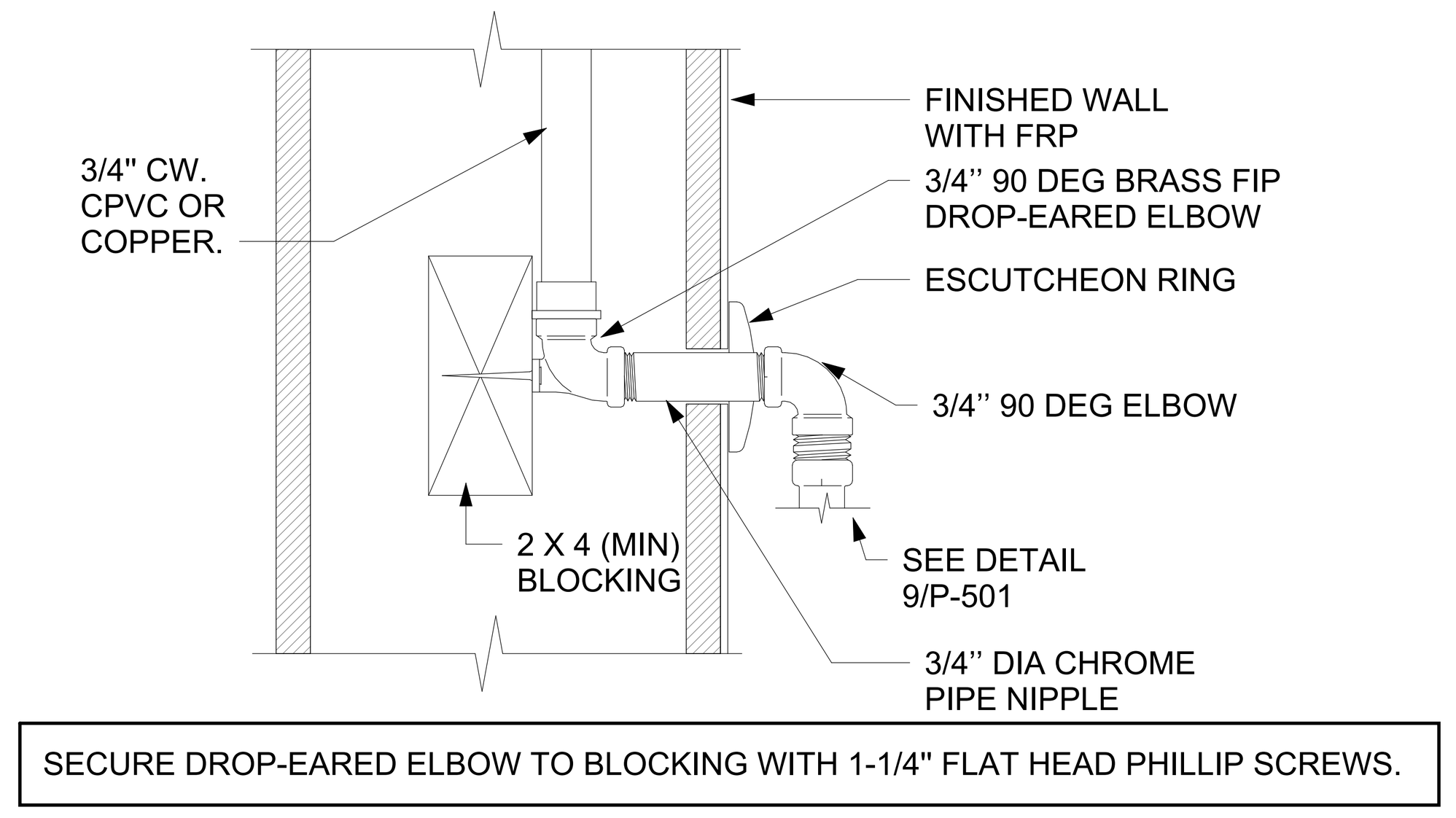
8 RETHERMALIZER SUPPLY VALVE
NOT TO SCALE



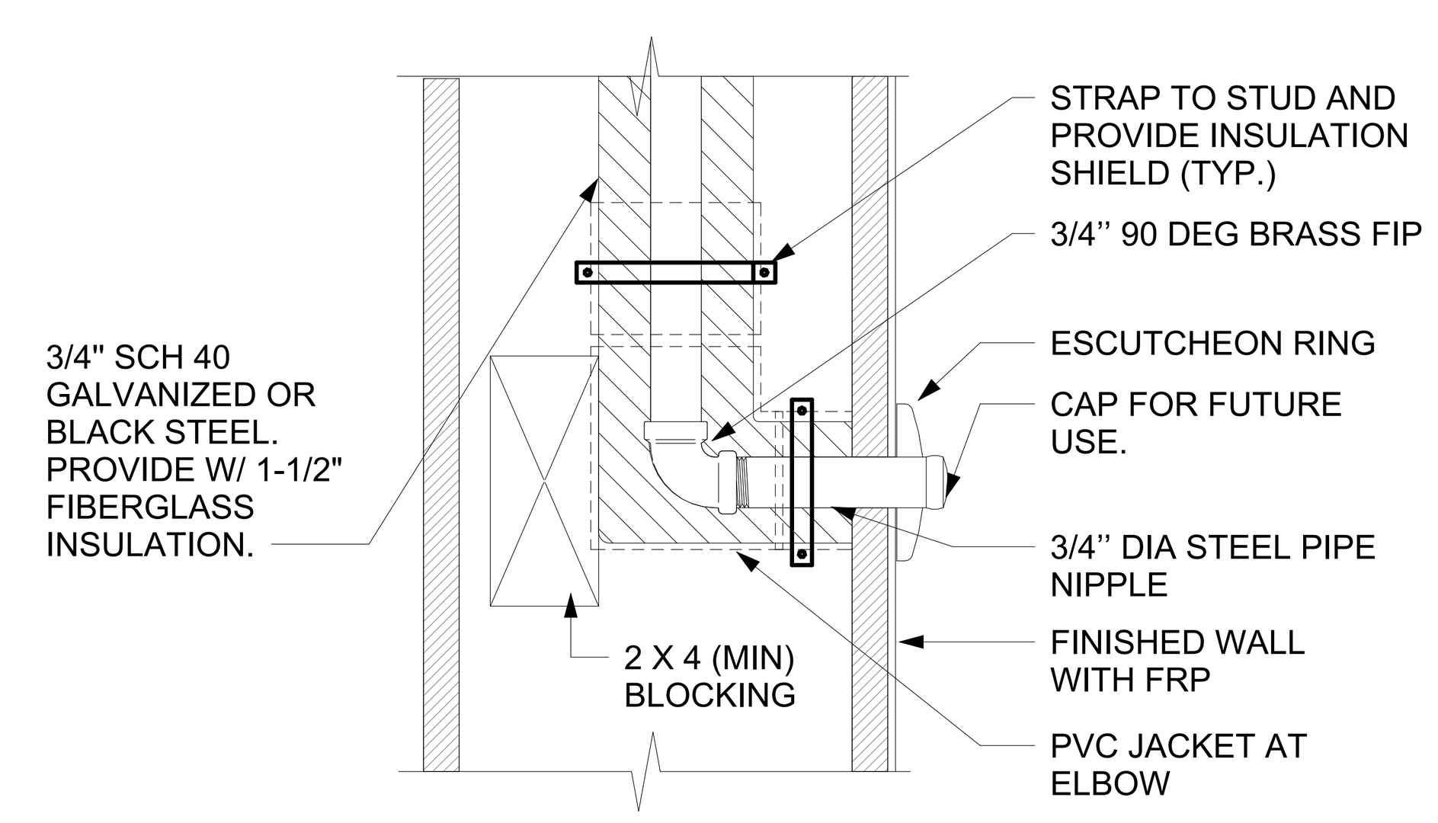
9 DISHWASHER SUPPLY VALVE ASSEMBLY
NOT TO SCALE



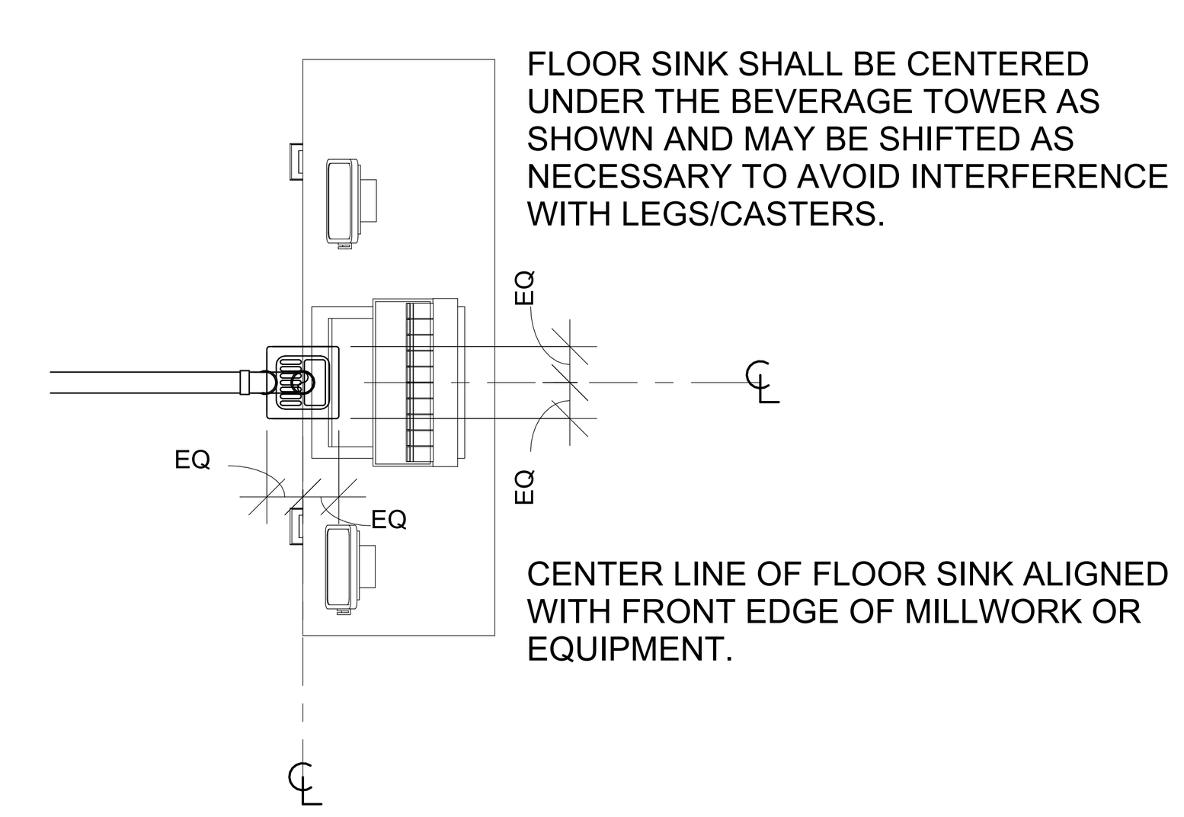
10 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
1/4" = 1'-0"



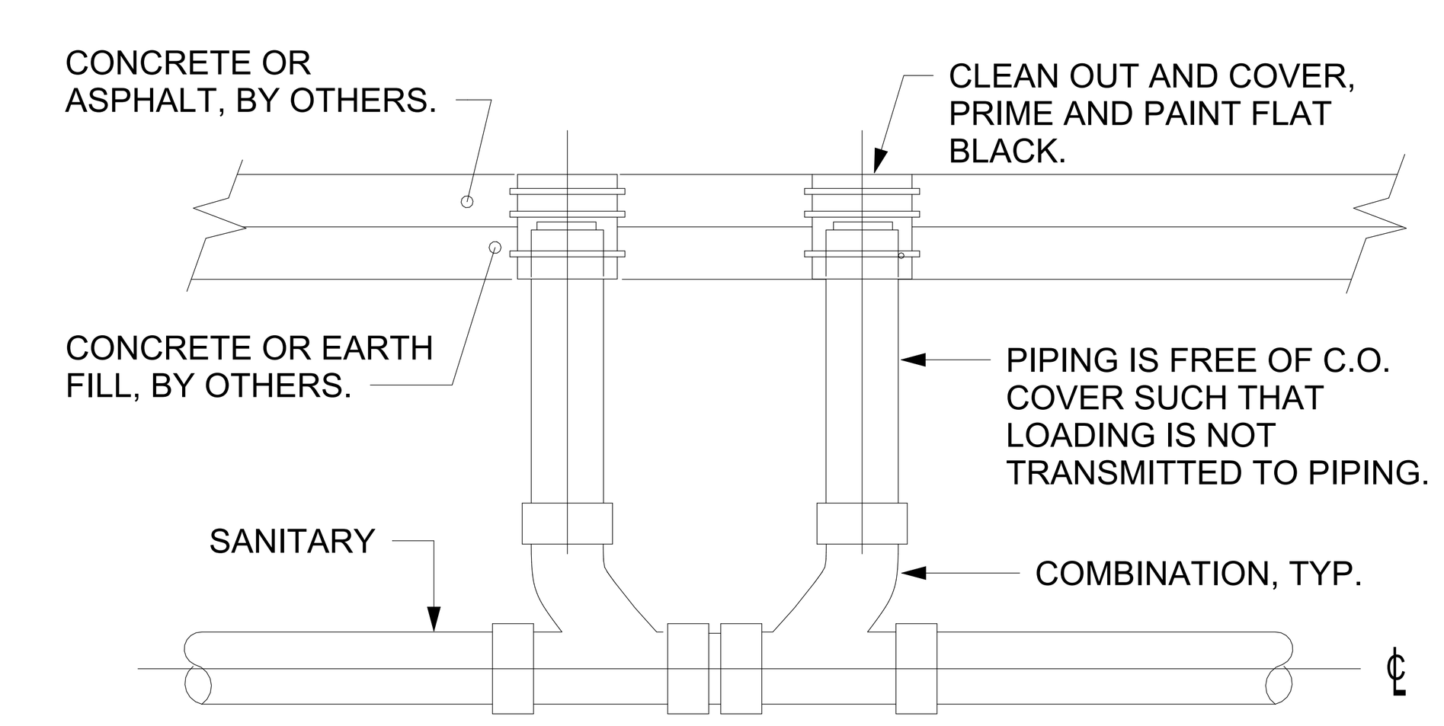
11 SECTION AT PIPING WITHIN WALL
NOT TO SCALE



12 DARPRO OIL PIPING SECTION WITHIN WALL
NOT TO SCALE



13 BEVERAGE TOWER FLOOR SINK DETAIL
NOT TO SCALE



14 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE

Chick-fil-A
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30349-2998

Kurzynske & Associates
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Nashville, Tennessee 37214
Telephone: (615) 255-5203

11/18/24

CHICK-FIL-A
Oldham Village FSU
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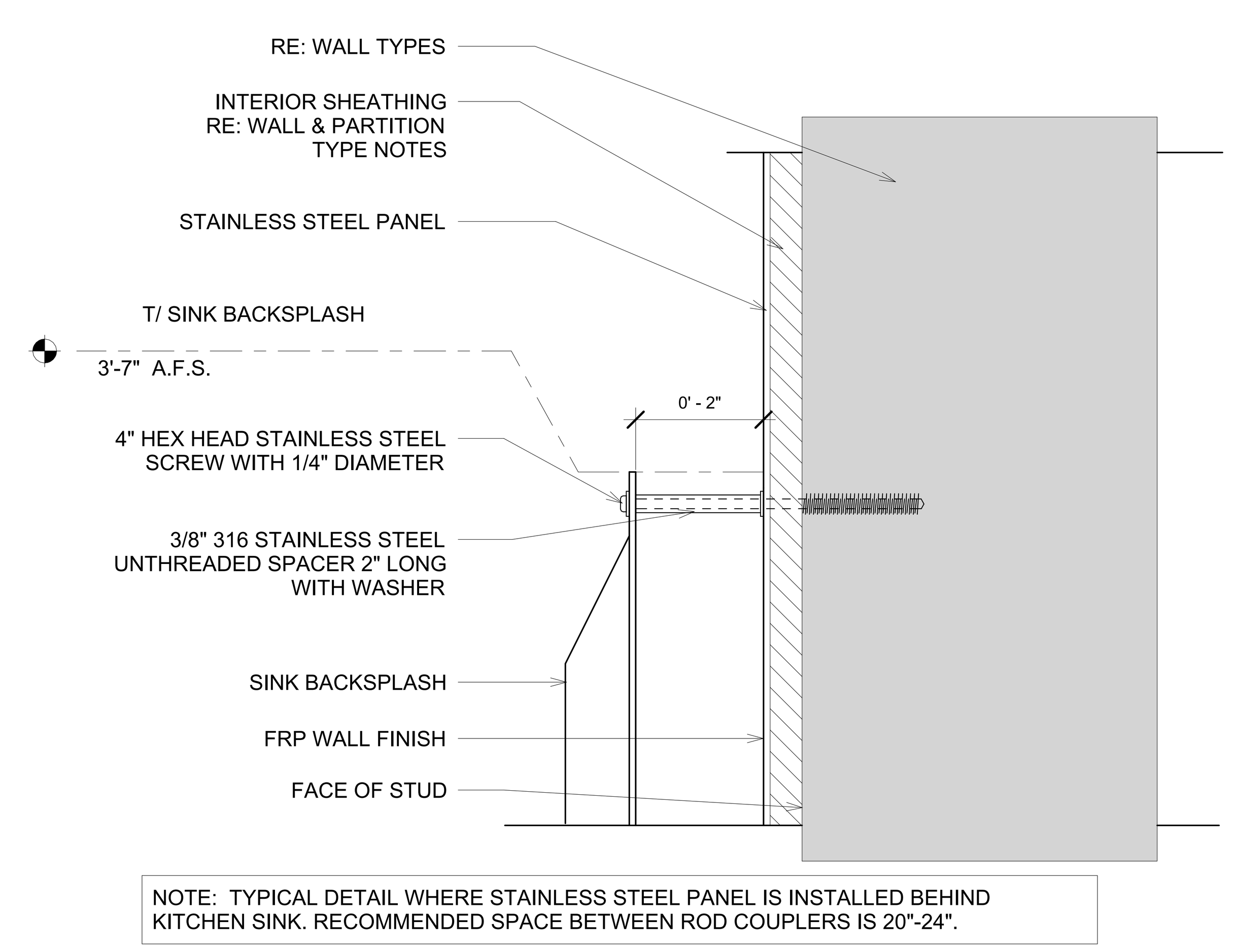
DATE	11/08/2024
DRAWN BY	CH

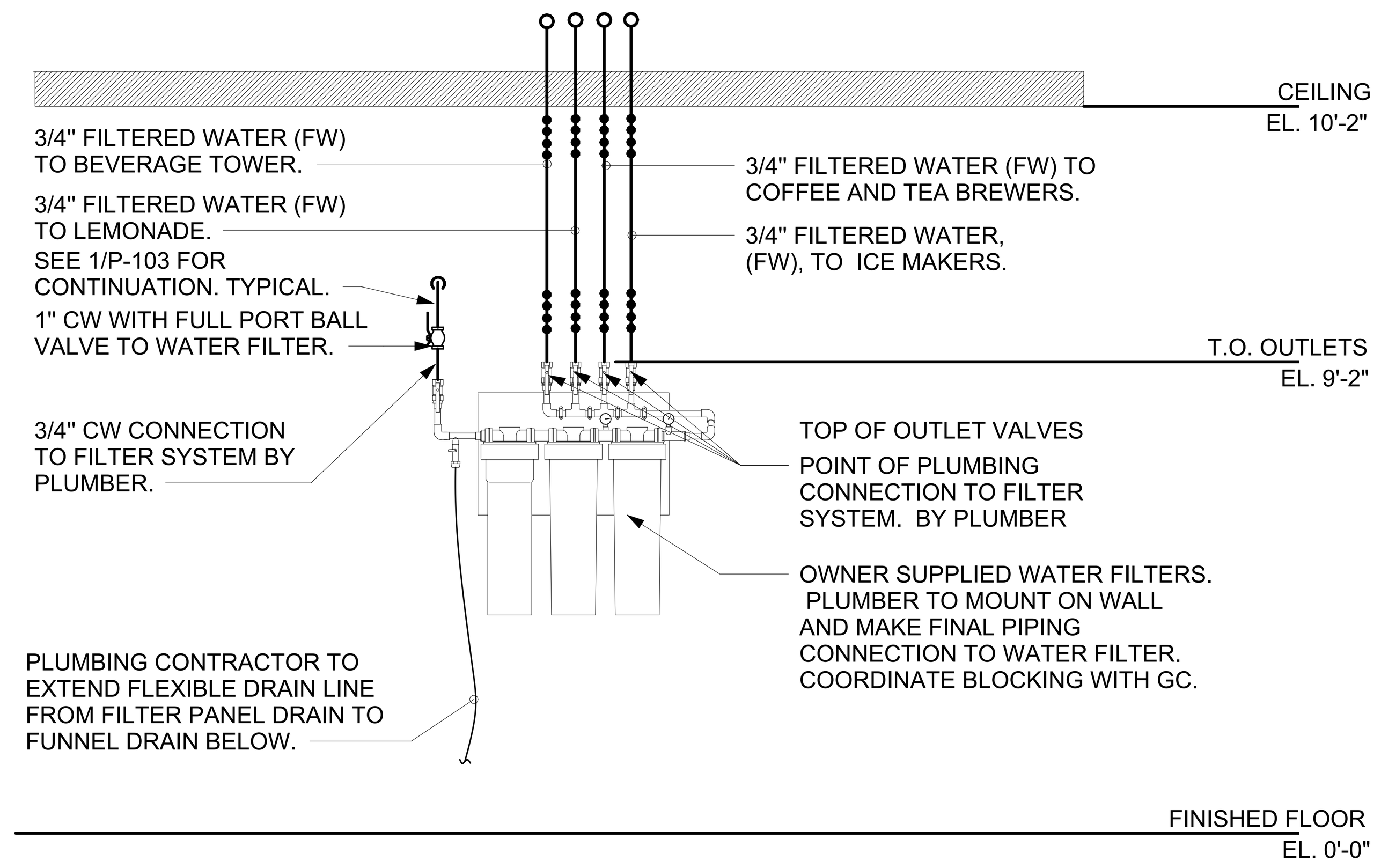
SHEET
PLUMBING DETAILS

SHEET NUMBER
P-501



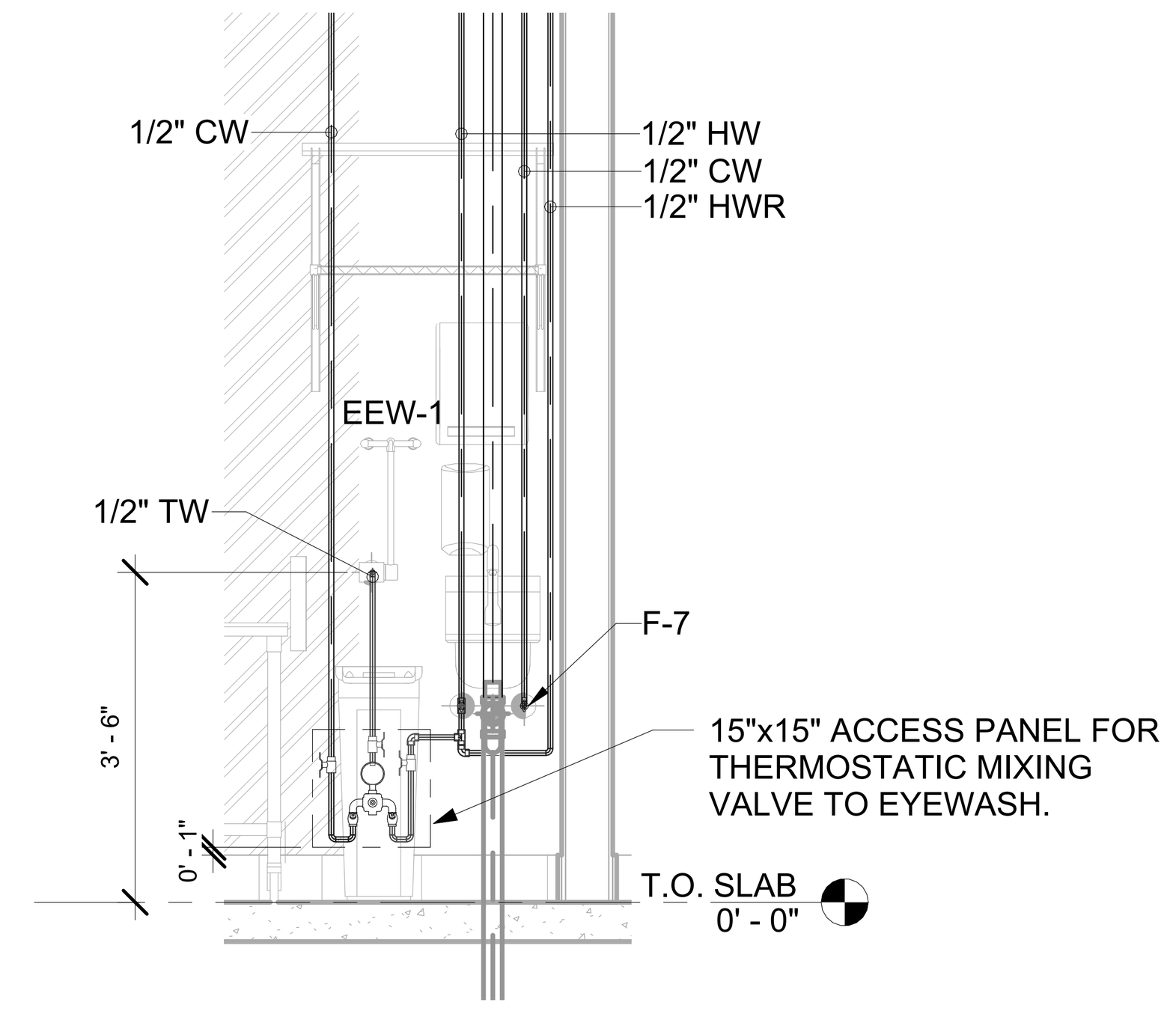
RE: WALL TYPES
INTERIOR SHEATHING
RE: WALL & PARTITION
TYPE NOTES
STAINLESS STEEL PANEL
T/ SINK BACKSPLASH
3'-7" A.F.S.
0' - 2"
4" HEX HEAD STAINLESS STEEL
SCREW WITH 1/4" DIAMETER
3/8" 316 STAINLESS STEEL
UNTHREADED SPACER 2" LONG
WITH WASHER
SINK BACKSPLASH
FRP WALL FINISH
FACE OF STUD
NOTE: TYPICAL DETAIL WHERE STAINLESS STEEL PANEL IS INSTALLED BEHIND
KITCHEN SINK. RECOMMENDED SPACE BETWEEN ROD COUPLERS IS 20"-24".

1 STANDOFF DETAIL
NOT TO SCALE

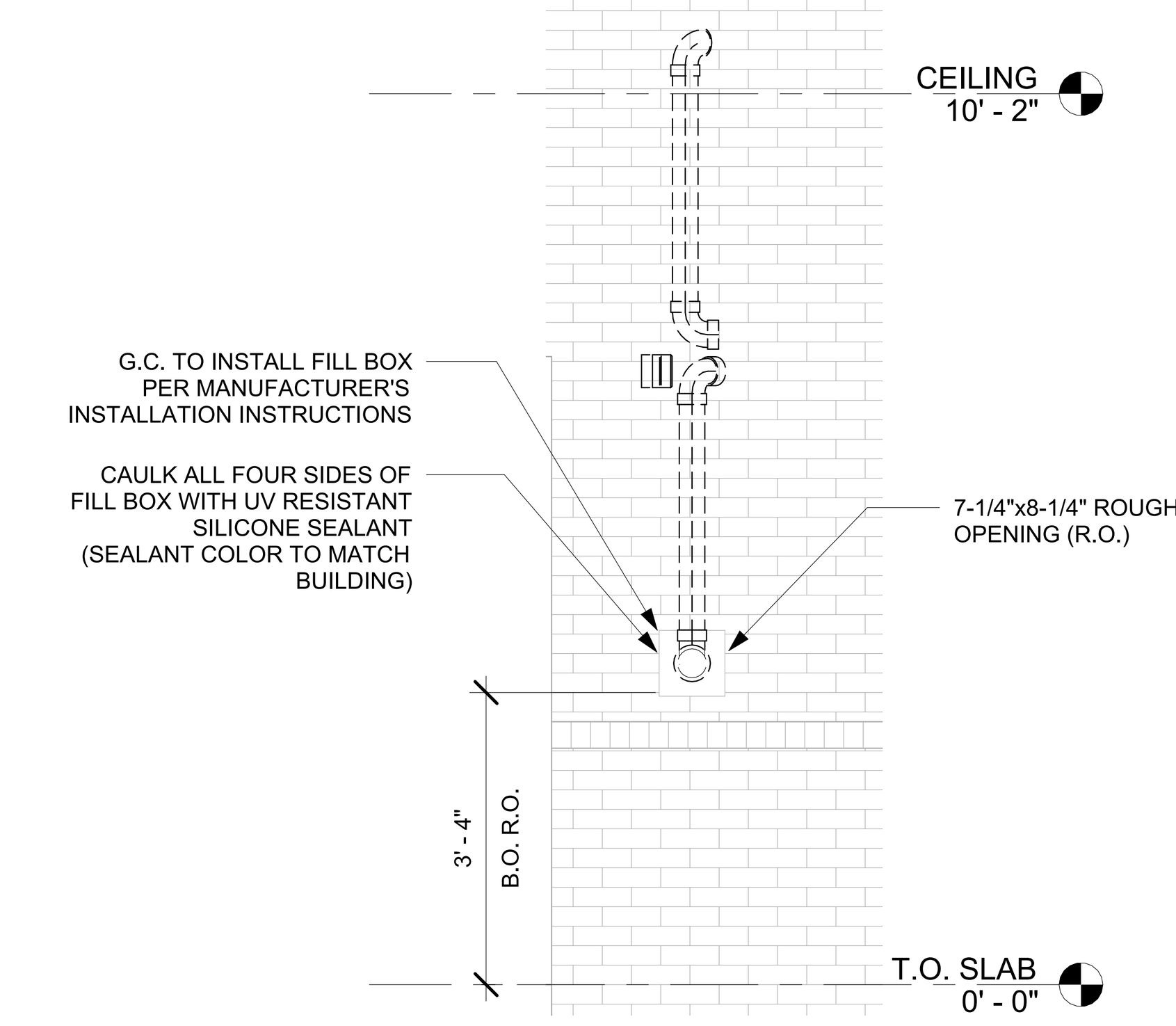


CEILING
EL. 10'-2"
3/4" FILTERED WATER (FW)
TO BEVERAGE TOWER.
3/4" FILTERED WATER (FW) TO
COFFEE AND TEA BREWERS.
3/4" FILTERED WATER (FW)
TO LEMONADE.
SEE 1/P-103 FOR
CONTINUATION. TYPICAL.
3/4" FILTERED WATER,
(FW), TO ICE MAKERS.
1" CW WITH FULL PORT BALL
VALVE TO WATER FILTER.
T.O. OUTLETS
EL. 9'-2"
3/4" CW CONNECTION
TO FILTER SYSTEM BY
PLUMBER.
TOP OF OUTLET VALVES
POINT OF PLUMBING
CONNECTION TO FILTER
SYSTEM. BY PLUMBER
OWNER SUPPLIED WATER FILTERS.
PLUMBER TO MOUNT ON WALL
AND MAKE FINAL PIPING
CONNECTION TO WATER FILTER.
COORDINATE BLOCKING WITH GC.
PLUMBING CONTRACTOR TO
EXTEND FLEXIBLE DRAIN LINE
FROM FILTER PANEL DRAIN TO
FUNNEL DRAIN BELOW.
FINISHED FLOOR
EL. 0'-0"

2 PIPING AT WATER FILTER
NOT TO SCALE



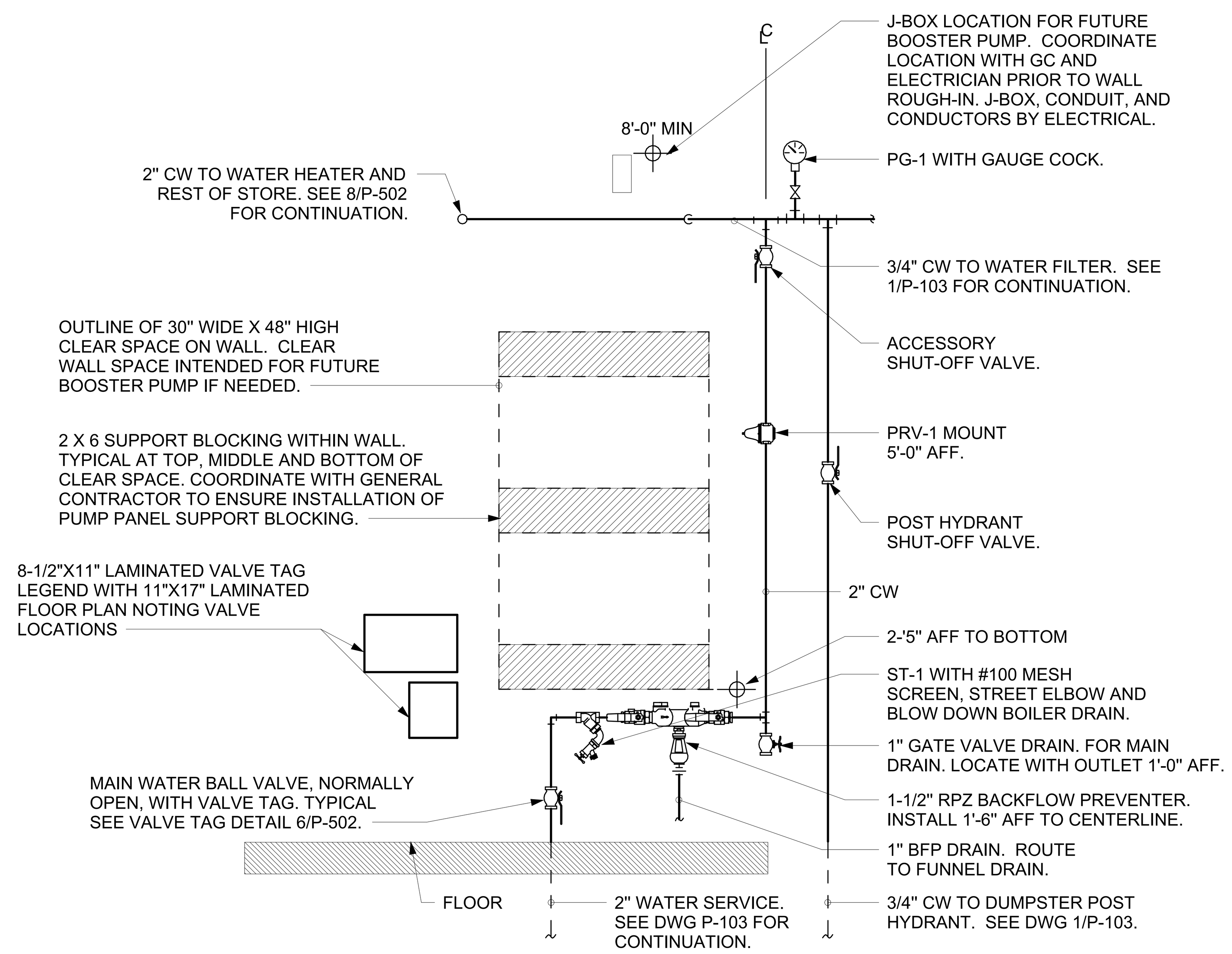
6 EYEWASH STATION ELEVATION
1/2" = 1'-0"



5 CO2 FILL BOX ELEVATION
1/2" = 1'-0"

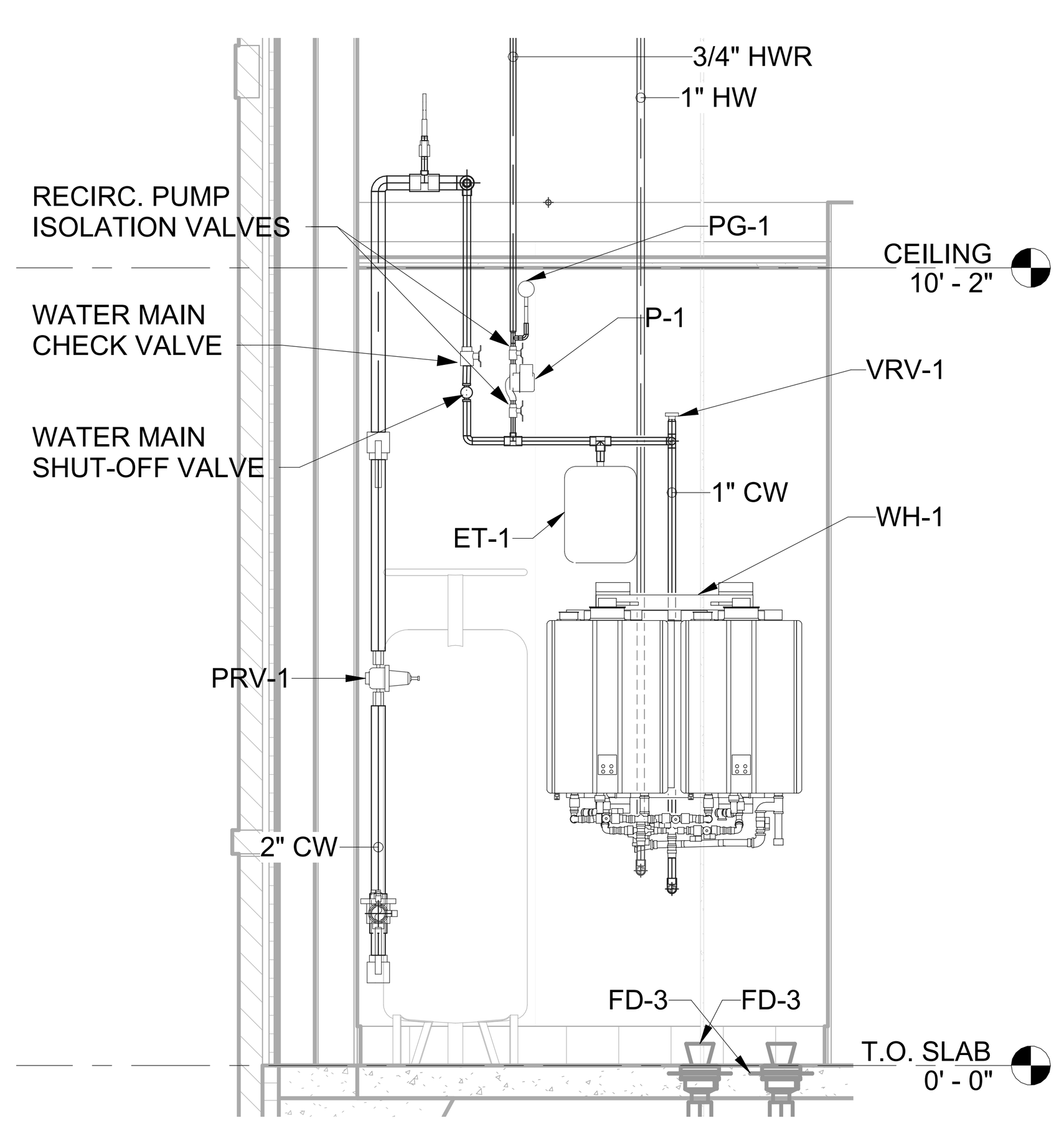
NOTE OF SPECIAL IMPORTANCE

1. LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
2. GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.

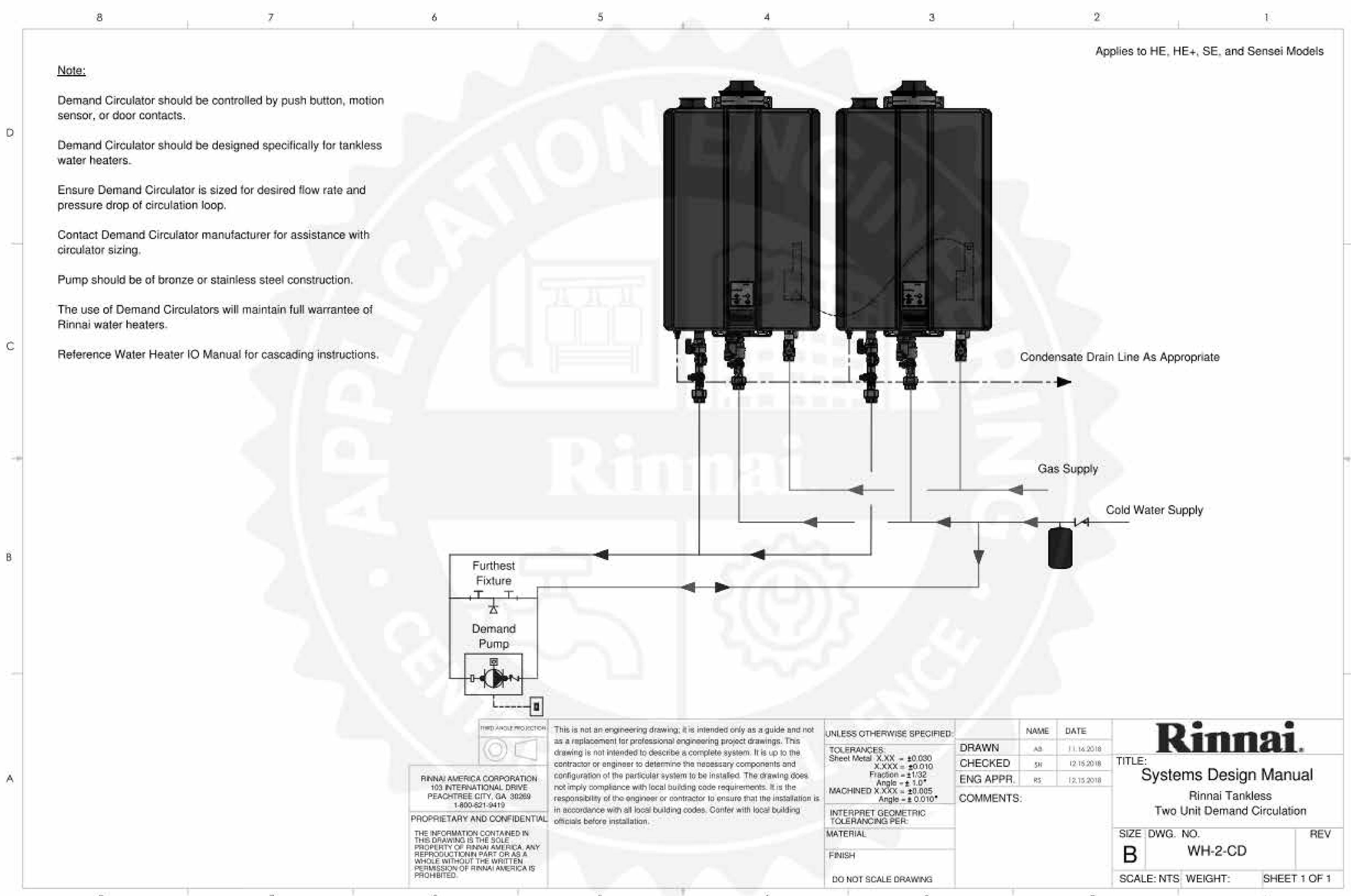


J-BOX LOCATION FOR FUTURE
BOOSTER PUMP. COORDINATE
LOCATION WITH GC AND
ELECTRICIAN PRIOR TO WALL
ROUGH-IN. J-BOX, CONDUIT, AND
CONDUCTORS BY ELECTRICAL.
8'-0" MIN
PG-1 WITH GAUGE COCK.
2" CW TO WATER HEATER AND
REST OF STORE. SEE 8/P-502
FOR CONTINUATION.
3/4" CW TO WATER FILTER. SEE
1/P-103 FOR CONTINUATION.
OUTLINE OF 30" WIDE X 48" HIGH
CLEAR SPACE ON WALL. CLEAR
WALL SPACE INTENDED FOR FUTURE
BOOSTER PUMP IF NEEDED.
ACCESSORY
SHUT-OFF VALVE.
2 X 6 SUPPORT BLOCKING WITHIN WALL.
TYPICAL AT TOP, MIDDLE AND BOTTOM OF
CLEAR SPACE. COORDINATE WITH GENERAL
CONTRACTOR TO ENSURE INSTALLATION OF
PUMP PANEL SUPPORT BLOCKING.
PRV-1 MOUNT
5'-0" AFF.
POST HYDRANT
SHUT-OFF VALVE.
8-1/2"X11" LAMINATED VALVE TAG
LEGEND WITH 11"X17" LAMINATED
FLOOR PLAN NOTING VALVE
LOCATIONS
2" CW
2'-5" AFF TO BOTTOM
ST-1 WITH #100 MESH
SCREEN, STREET ELBOW AND
BLOW DOWN BOILER DRAIN.
MAIN WATER BALL VALVE, NORMALLY
OPEN, WITH VALVE TAG. TYPICAL
SEE VALVE TAG DETAIL 6/P-502.
1" GATE VALVE DRAIN. FOR MAIN
DRAIN. LOCATE WITH OUTLET 1'-0" AFF.
1-1/2" RPZ BACKFLOW PREVENTER.
INSTALL 1'-6" AFF TO CENTERLINE.
1" BFP DRAIN. ROUTE
TO FUNNEL DRAIN.
FLOOR
2" WATER SERVICE.
SEE DWG P-103 FOR
CONTINUATION.
3/4" CW TO DUMPSTER POST
HYDRANT. SEE DWG 1/P-103.

3 PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM
NOT TO SCALE



4 TANKLESS WATER HEATER DETAIL
NOT TO SCALE



Applies to HE, HE+, SE, and Sensei Models
Note:
Demand Circulator should be controlled by push button, motion sensor, or door contacts.
Demand Circulator should be designed specifically for tankless water heaters.
Ensure Demand Circulator is sized for desired flow rate and pressure drop of circulation loop.
Contact Demand Circulator manufacturer for assistance with circulator sizing.
Pump should be of bronze or stainless steel construction.
The use of Demand Circulators will maintain full warrantee of Rinnai water heaters.
Reference Water Heater IO Manual for cascading instructions.
Condensate Drain Line As Appropriate
Gas Supply
Cold Water Supply
Furthest
Fixture
Demand
Pump
Rinnai.
Systems Design Manual
Rinnai Tankless
Two Unit Demand Circulation
DRAWN
CHECKED
ENG APPR.
COMMENTS:
SIZE B
DWG. NO. WH-2-CD
SCALE: NTS
SHEET 1 OF 1

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
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2705 Lebanon Pike - Suite One
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Telephone: (615) 255-5203

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SHEET
PLUMBING DETAILS

SHEET NUMBER
P-502

PLUMBING FIXTURE SCHEDULE

ALL PRODUCTS SPECIFIED SHALL BE SUPPLIED BY HJC (OR FERGUSON FOR THE WEST AND SOUTH WEST REGIONS) UNLESS NOTED OTHERWISE. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

FIXTURE MARK	DESCRIPTION	MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	CW	HW	FW	WASTE	VENT	ACCESSORIES & REMARKS
BV-1	BALL VALVE	BELL & GOSSETT	TSB-1/2(C)	PC	PC	0"	1/2"	0"	0"	0"	THERMOSTATIC BALANCING VALVE W/ MANUAL BYPASS. SET TEMPERATURE TO 130 DEGREES F. FOR 3/4" SIZING USE MODEL TSB-3/4(C).
CV-1	MOP SINK CHECK VALVE	T&S	B-CVV1-2	PC	PC	1/2"	1/2"	0"	0"	0"	LEAD FREE, BRASS MODEL.
DCV-1	DUAL CHECK VALVE WITH ATMOSPHERIC VENT - ICE MAKER	WATTS	LF7RU2-2	PC	PC	0"	0"	3/8"	0"	0"	PIPE DCV VENT TO FLOOR DRAIN.
DCV-2	DUAL CHECK VALVE WITH ATMOSPHERIC VENT - COFFEE AND TEA	WATTS	SD-2	PC	PC	0"	0"	3/8"	0"	0"	PIPE DCV VENT TO FLOOR DRAIN.
EEW-1	EMERGENCY EYE WASH	SAFETY MANUFACTURING	S0660-RH-ET71-1-BVS-OTG	PC	PC	1/2"	1/2"	0"	0"	0"	INCLUDES THERMOSTATIC MIXING VALVE. ANSI Z358.1, ASSE 1071 COMPLIANT. WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED. ROUGH BRASS FINISH.
ET-1	EXPANSION TANK	A.O. SMITH	TW12-5	PC	PC	3/4"	0"	0"	0"	0"	ACCEPTANCE 2.19 GALLONS AT 40 PSI PRECHARGE. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE. ALT: AMTROL: ST-12.
F-1	FAUCET - TROUGH SINK	TOTO	T24S51E#CP	PC	PC	1/2"	1/2"	0"	0"	0"	ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. NO SUBSTITUTIONS.
F-3	FAUCET - MOP SINK	T&S	B-2345	PC	PC	1/2"	1/2"	0"	0"	0"	WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TO 8". INCLUDE T&S BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS.
F-4	FAUCET - FILTERED WATER - JUICING TABLE	T&S	B-0599-CR	PC	PC	0"	0"	1/2"	0"	0"	TWO HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET. CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES, GALVANIZED NOT ALLOWED.
F-5	FAUCET - UNDERMOUNT SINK	TOTO	T24T51ET#CP	PC	PC	1/2"	1/2"	0"	0"	0"	ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
F-6	FAUCET - DUMP SINK	T&S BRASS	B-1146-CFA-VF05	PC	PC	1/2"	1/2"	0"	0"	0"	ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY.
F-7	FAUCET - HAND SINK	TOTO	TEL165-C20E#CP	PC	PC	1/2"	1/2"	0"	0"	0"	ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY.
F-8	FAUCET 1 - 4 COMP	T&S	B-2299-CR	PC	PC	1/2"	1/2"	0"	0"	0"	CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT FAUCET, AND MAKE FINAL CONNECTIONS. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC.INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE SPRAY. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK FS-1, NO TRAPS REQUIRED. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS.
F-9	FAUCET - 4 COMP / VEG PREP WITH SPRAY VALVE	T&S	B-0152-14-CRBCT (SPRAY VALVE: B-0107-C)	PC	PC	1/2"	1/2"	0"	0"	0"	CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT FAUCET, AND MAKE FINAL CONNECTIONS. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE RISER. SEE KITCHEN DRAWINGS FOR ROUGH-IN LOCATIONS.
FCO	FLOOR CLEANOUT	ZURN	ZN1400-NL-T-BP	PC	PC	0"	0"	0"	4"	0"	CLEANOUT SQUARE WITH 6" NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR WASTE SIZE.
FD-1	KITCHEN AREA DRAIN	ZURN	EZ1-PV3-R8	PC	PC	0"	0"	0"	3"	2"	BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D53-144.
FD-3	FUNNEL DRAIN	ZURN	ZN415E-SC-VP	PC	PC	0"	0"	0"	3"	0"	INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" (ZURN- ZN328-4) ROUND FUNNEL.
FD-5	FLOOR DRAIN - TOILET ROOMS/MOP SINK	ZURN	EZ1-PV3-R6	PC	PC	0"	0"	0"	3"	2"	BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER.
FD-7	FLOOR DRAIN - DINING ROOM	ZURN	EZ1-PV3-S6	PC	PC	0"	0"	0"	3"	2"	BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER.
FS-1	FLOOR SINK - 4-COMPARTMENT	ZURN	Z1901-4NL-1-23	PC	PC	0"	0"	0"	3"	3"	12"x12"x8"D CAST IRON FLOOR SINK LESS GRATE WITH ALUMINUM BUCKET
FS-2	FLOOR SINK - VEGETABLE PREP SINK	ZURN	Z1910-KC-1-23	PC	PC	0"	0"	0"	3"	2"	CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE.
FS-3	FLOOR SINK - DUMP SINK	ZURN	Z1910-KC-2-23	PC	PC	0"	0"	0"	3"	3"	CAST IRON INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET.
FS-4	FLOOR SINK - BEV TOWER	ZURN	Z1901-NL-2-23-31	PC	PC	0"	0"	0"	3"	3"	3" CONNECTION, CAST IRON INDIRECT WASTE RECEIVER, WITH HALF GRATE, STAINLESS STEEL MESH LINER AND ALUMINUM BUCKET.
FV-1	FLUSH VALVE - WATER CLOSET	TOTO	TET1LB32#CP-W	PC	PC	1 1/2"	0"	0"	0"	0"	1.28 GPF ECO-POWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE.
GI-1	GREASE INTERCEPTOR (1500 GALLONS)	-	-	PC	PC	0"	0"	0"	4"	2"	CONCRETE GREASE INTERCEPTOR.
HB-1	HOSE BIBB / WALL HYDRANT	WOODFORD	67C	PC	PC	3/4"	0"	0"	0"	0"	AUTOMATIC DRAINING HOSE BIBB WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH. "C" STYLE INLET. ALT (WTS) HY-42.
HB-2	DUMPSTER POST HYDRANT	WOODFORD	Y2	PC	PC	3/4"	0"	0"	0"	0"	Y2 LEVER TYPE POST HYDRANT, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 24" DEPTH OF BURY.
LAV-1	SOLID SURFACE TROUGH SINK	CLAYTON FIXTURES	-	OWN	PC	0"	0"	0"	1 1/2"	1 1/2"	SEE F-1. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101E-Z AND 105E-Z.
P-1	RECIRCULATING PUMP	GRUNDFOS	GTK-03	PC	PC	0"	3/4"	0"	0"	0"	HOT WATER CIRCULATING PUMP (TANKLESS WH): GRUNDFOS MODEL GTK03 PUMP KIT. 3/4" UNION CONNECTIONS. ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. KIT INCLUDES 6 FT BX PRE-WIRED CONDUIT, FLANGE KIT, AND RINNAI CIRC-LOGIC MANUAL,. SET SHUT-OFF TEMP AT 100 DEGREES F.
P-2	PRM PANEL	-	DPRMCHICKFILACOMPLETE	KEC	PC	2"	0"	0"	0"	0"	2" INLET AND 2" DISCHARGE WITH 1 LITER DIAPHRAGM TANK. FULLY ASSEMBLED PACKAGE SYSTEM. MAX FLOW OF 45 GPM AT 21.5 PSI. NSF 61 APPROVED. 208V / 3PH / 60 HZ, 20 AMP BREAKER.
PG-1	WATER PRESSURE GAUGE	TRERICE	800B	PC	PC	1/2"	0"	0"	0"	0"	2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE.
PRV-1	PRESSURE REDUCING VALVE	WATTS	LF223-S-B	PC	PC	2"	0"	0"	0"	0"	NOTE TO DESIGNER: PROVIDE ONLY WHEN WATER PRESSURE AT BUILDING EXCEEDS 80 PSIG OR WHEN USING A BOOSTER PUMP. WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI. ALT: (ZRN) SERIES 500XLYSBR.
RPZ-1	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LFU009M2QTS	PC	PC	2"	0"	0"	0"	0"	REDUCED PRESSURE ZONE (RPZ) ASSEMBLY WITH UNION CONNECTIONS, BRONZE STRAINER, QUARTER TURN BALL VALVES AND WATTS 909 AIR GAP. MEETS ASSE 1013 AND AWWA C511-92. COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN.
RPZ-2	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LFU009M2QTS	PC	PC	3/4"	0"	0"	0"	0"	REDUCED PRESSURE ZONE (RPZ) ASSEMBLY WITH UNION CONNECTIONS, BRONZE STRAINER, QUARTER TURN BALL VALVES AND WATTS 909 AIR GAP. MEETS ASSE 1013 AND AWWA C511-92. COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN.
ST-1	WYE STRAINER	WATTS	LF777SM3-2	PC	PC	2"	0"	0"	0"	0"	BRONZE WYE STRAINER WITH THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" LFBD-1C BRASS BOILER DRAIN WITH BRASS STREET 90 DEGREE ELBOW
TD-1	TRENCH DRAIN - 700 LB. ICE BIN	ZURN	TR12-CFA-18	PC	PC	0"	0"	0"	3"	0"	STAINLESS STEEL TRENCH DRAIN, 14.5"X18" STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE.
TD-2	TRENCH DRAIN - 1300 LB. ICE BIN	ZURN	TR12-CFA-36	PC	PC	0"	0"	0"	3"	0"	STAINLESS STEEL TRENCH DRAIN, 14.5"X36" STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE.
TH-1	THERMOMETER	TRERICE	B83404-04	PC	PC	1/2"	1/2"	0"	0"	0"	3" DIAL THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION. 4" STEM AND 0 DEG F TO 200 DEG F RANGE.
TP-1	TRAP PRIMER WITH 4-WAY DISTRIBUTION	PPP	PR-500 W/ DU-U	PC	PC	0"	0"	0"	3"	0"	PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALTERNATE: (WTS) TP-300A-DR.
V-1	SUPPLY VALVE - DISHWASHER	WATTS	3/4 S-FBV-1	PC	PC	3/4"	0"	0"	0"	0"	FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON.
V-2	SUPPLY VALVE - RETHERMALIZER	WATTS	1/2 S-FBV-1	PC	PC	1/2"	0"	0"	0"	0"	FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON.
V-3	BALL VALVE	NIBCO	4660-T	PC	PC	0"	0"	3/4"	0"	0"	ISOLATION BALL VALVE (12-STOP WATER MANIFOLD PANEL). WITH IPS INLET AND OUTLET.
V-4	3-WAY DIVERTER VALVE	WATTS	LFB 6780	PC	PC	1/2"	0"	0"	0"	0"	ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS. PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER. ALSO PROVIDE TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEG ELBOW.
V-5	ICE / TEA / COFFEE VALVE	MCGUIRE	LFHST06SB	PC	PC	0"	0"	1/2"	0"	0"	LEAD FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET FOR TEA BREWER (KEQ#305), COFFEE MAKER (KEQ#308) AND ICE MAKER (KEQ#380). INSTALL WITH BFP. PROVIDE ESCUTCHEON PLATE AT PIPE PENETRATION.
VRV-1	VACUUM RELIEF VALVE	WATTS	LFN36M1	PC	PC	3/4"	0"	0"	0"	0"	-
WC-1	WATER CLOSET	TOTO	CT725CUG#01	PC	PC	0"	0"	0"	3"	2"	SEE FV-1. PROVIDE WITH SC534 SEAT. NO SUSBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE. VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, WHITE OPEN FRONT SEAT WITH CHECK HINGE.
WC-2	WATER CLOSET - ADA	TOTO	CT725CUFG#01	PC	PC	0"	0"	0"	3"	2"	SEE FV-1. PROVIDE WITH SC534 SEAT. NO SUSBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP STUD, ELONGATED BOWL, WHITE OPEN FRONT SEAT WITH CHECK HINGE, AND NO OFFSET TOILET FLANGES.
WH-1	TANKLESS WATER HEATER	RINNAI	CU-199i	PC	PC	1"	1"	0"	0"	0"	199MBH INPUT, DIRECT CONCENTRIC VENTED, WITH TWO-UNIT CONFIGURATION. INCLUDE CONDENSATE NEUTRALIZATION KIT WIITH MEDIA. OFFSET WALL BRACKET ACCESSORY MODEL NUMBER: TRX02CUIN. 5.4 GPM MAXIMUM FLOW RATE AT 70 DEG RISE. SUPPLY WITH TWO RINNAI SCALE CONTROL SYSTEMS. PROVIDE WITH 8 YEAR HEAT EXCHANGER WARRANTY, 5 YEAR OTHER PARTS AND COMPONENTS WARRANTY, AND 1 YEAR LABOR WARRANTY. CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES. NO SUBSTITUTIONS.
WHA-1	WATER HAMMER ARRESTOR	ZURN	Z1700	PC	PC	0"	0"	0"	0"	0"	ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER. ALT: (WTS) SSA + SSB: (JRS 5005 THRU 5050).
YCO-1	YARD CLEANOUT - DRIVEWAYS	ZURN	Z1474-N	PC	PC	0"	0"	0"	4"	0"	EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOOCK OUTLET. ALT: (ZURN) Z1474-X-N.
YCO-2	YARD CLEANOUT - LANDSCAPED AREAS	CHARLOTTE PIPE	PVC 105X	PC	PC	0"	0"	0"	4"	0"	PVC CLEANOUT ADAPTER WITH CLEANOUT PLUG.

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Telephone: (615) 255-5203

11/18/24

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUE FOR PERMIT

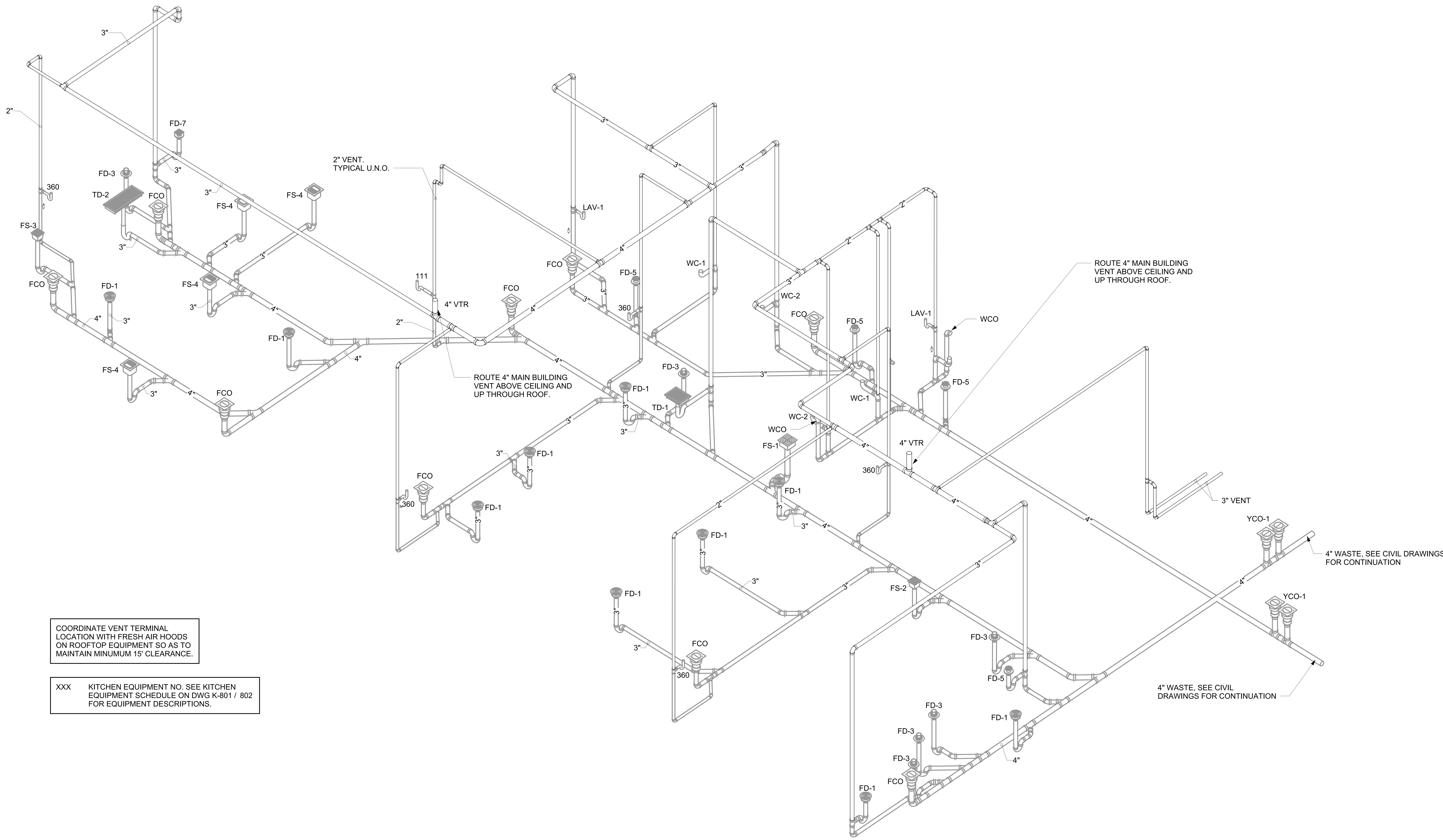
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24137.CD.S
DATE 11/08/2024
DRAWN BY CH

SHEET
PLUMBING SCHEDULES

SHEET NUMBER
P-601



COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINUMUM 15' CLEARANCE.

XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG K-801 / 802 FOR EQUIPMENT DESCRIPTIONS.

1 DRAIN, WASTE AND VENT ISOMETRIC

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STATE OF MISSOURI
KURZYNSKE
E-2000151
PROFESSIONAL ENGINEER
11/18/24

CHICK-FIL-A
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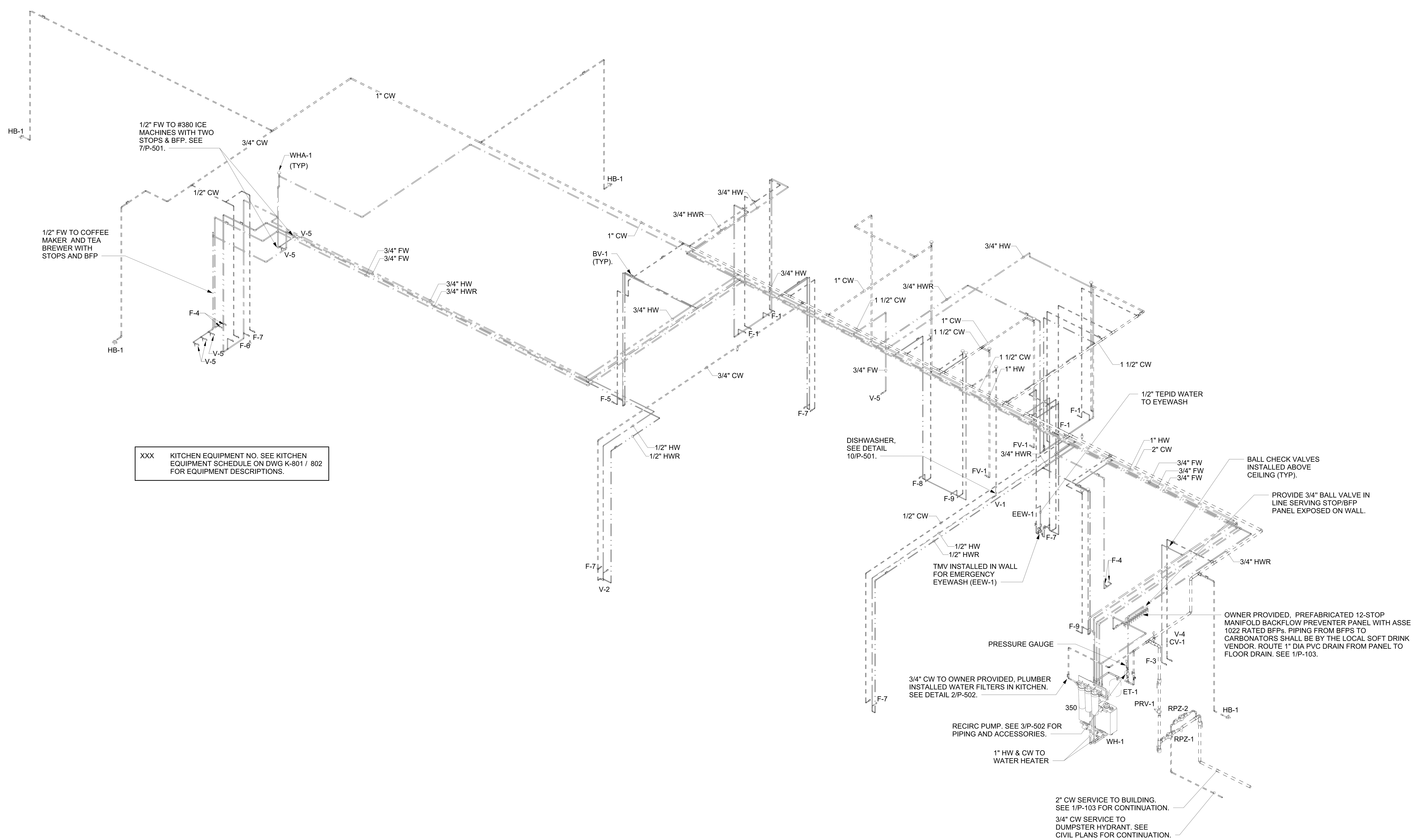
DATE	11/08/2024
DRAWN BY	CH

SHEET
DRAIN, WASTE AND VENT ISOMETRIC

SHEET NUMBER
P-901



XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG K-801 / 802 FOR EQUIPMENT DESCRIPTIONS.

1 WATER DISTRIBUTION ISOMETRIC

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SHEET
WATER DISTRIBUTION ISOMETRIC

SHEET NUMBER
P-902

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	LIGHTING FIXTURES	
	SURFACE MOUNTED LIGHTING FIXTURE	
	RECESSED LED TROFFER LIGHTING FIXTURE	
	SURFACE MOUNTED LED LIGHTING FIXTURE	
	RECESSED LED LIGHTING FIXTURE	
	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE	AS NOTED
	WALL MOUNTED EXIT SIGN, SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED	6" FROM CEILING TO TOP
	CEILING MTD EXIT SIGN, SHADING INDICATES FACES. PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED	
	COMBO EXIT WITH TWO LAMPHEADS	
	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED
	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHTING FIXTURE	
	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL	
	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK	
	PENDANT LIGHTING FIXTURE	AS NOTED
	LIGHTING TRACK WITH TRACK HEADS	
	WIRING DEVICES	
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON
	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
$	SINGLE POLE TOGGLE SWITCH	48"
$2	DOUBLE POLE TOGGLE SWITCH	48"
$3	THREE WAY TOGGLE SWITCH	48"
$T	SWITCH WITH TIMER	48"
$M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
$P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
$K	KEY OPERATED SWITCH	48"
NOTE: RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.		
	CONDUIT/RACEWAYS	
	CONDUIT CONCEALED ABOVE CEILNG OR IN WALL	
	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4"C	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)	
	FLEXIBLE LIGHT FIXTURE WHIP; SIX FOOT MAXIMUM LENGTH	
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
	DISTRIBUTION EQUIPMENT	
	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *
	FUSIBLE SAFETY SWITCH, SIZE & TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *
	FLUSH MOUNTED (RECESSED) PANELBOARD	6'-6" *
	SURFACE MOUNTED PANELBOARD	6'-6" *
* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE		

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	MISCELLANEOUS SYMBOLS	
	GROUND	
M	MOTOR	
EF	EXHAUST FAN MOTOR	
J	JUNCTION BOX	
1	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
101	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
1	NOTE NUMBER	
A	HOOD EXTINGUISHING FS PULL STATION	
D	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2"C STUB-UP	
	PUSHBUTTON	
B	BELL, TYPE AS NOTED ON PLANS	
PE	PHOTO-ELECTRIC CELL	
T	TRANSFORMER / DRIVER	
S	LOCKABLE SINGLE POLE SWITCH	
S	CEILING MOUNTED AUDIO SPEAKER	
	ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
C	CONDUIT	
CL	CENTER-LINE	
CT	CONTACTOR	
EF	EXHAUST FAN	
FLA	FULL LOAD AMPS	
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND/ GRD	GROUND	
HT	HEIGHT	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION	
MUA	MAKE UP AIR UNIT	
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
NL	NIGHT LIGHT (ON 24 HOURS)	
OC	ON CENTER	
POS	POINT OF SALE EQUIPMENT	
RTU	ROOF TOP UNIT	
TB	TERMINAL BLOCK	
TL	TWIST-LOCK TYPE DEVICE	
TR	TAMPER-RESISTANT	
UON	UNLESS OTHERWISE NOTED	
WP	WEATHERPROOF (NEMA 3R)	
	TELEPHONE	
	TELEPHONE OUTLET	18" UON
	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
	CCTV / SECURITY SYSTEM	
K	SECURITY ALARM KEYPAD	

POWER PLAN GENERAL NOTES

A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.

B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.

C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.

D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.

E. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.

B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.

C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall be included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches

B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.

C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101
BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.

B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

B. Drawings are diagramatic and shall not be scaled for exact sizes or locations, they are not intended to disclose absolute or unconditional knowledge of actual field conditions.

C. Protect work and materials from damage by weather, entrance of water and dirt. Cap conduit during installation. Avoid damage to materials and equipment in place.

D. Satisfactorily repair or remove and replace damaged work with new materials. Deliver equipment and materials to job site in original, unopened, labeled containers. Store ferrous materials to prevent rusting. Store finished materials and equipment to prevent staining and discoloring.

E. Trenches shall be excavated 6" below elevation of bottom of conduit.

F. Failure to route conduit through building without interfering with other equipment and construction shall not constitute a reason for an extra charge. Equipment, conduit and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure. Equipment requiring service shall be readily accessible.

3.02 TESTING AND EQUIPMENT SERVICING
A. Make test to ensure that entire system is in proper operating condition, and that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS
A. Remove surplus materials and debris caused by, or incidental to, electrical work. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT
A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION
A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY
A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120
RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS system). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.
4. Installed for panelboard feeders above slab.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders ran below ground.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.

1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.

1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.

B. Length shall not exceed 6 feet in accessible ceiling areas.

C. Shall not be concealed in walls.

D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.

E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocking galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.

C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive-Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.

B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.

C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.

D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.

E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.

F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O"ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.

H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.

I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY
A Use threaded fittings for all connectors and adapters.

B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)

B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121
CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.

C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.

D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.

B. Make all splices or connections only at outlet, pull or junction boxes.

C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.

D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.

E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.

G. Leave a minimum of 8" slack wire in every outlet box.

H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.

I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.

J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated,tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.

B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. Sheet metal outlet boxes: galvanized steel.

B. Cast boxes: type FS, cast feralloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, or Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

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SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
GENERAL NOTES, LEGENDS, AND SPECIFICATIONS

SHEET NUMBER
E-001

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50-LSR-05248-E-001-GENERAL NOTES, LEGENDS, AND SPECIFICATIONS

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123
GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES
A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS
A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.

F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Supporting devices and hangers shall be manufactured by RACO Fasteners, or approved equivalent.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music / communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES
A. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
1. Single pole toggle switches: 20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining) 20 AMP Pilot lights illuminated with load on - #AH1221-PL

2. Double pole toggle switches: 20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

3. Three-way toggle switches: 20 AMP device - #AH1223- GY (Kitchen) or #AH1223-B (Dining)

1.02 RECEPTACLES
A. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices to be 20 amp, 125 volts, a.c. receptacles:
a. Single (simplex) device: #1877-GY (Kit) or #1877-B (Dining)
b. Duplex device: #CR20-GY (Kitchen) of #CR20-B (Dining)
c. Tamper resistant duplex device: #TRCR20-B or #TR7756-B (with USB charging)
d. GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
e. IG (isolated ground) duplex device: #IG5362-RN (orange face)

B. Color:
1. Devices mounted in the FRP or tile shall be gray.
2. Devices mounted in wood finish shall be brown.
3. Isolated ground receptacles shall be orange.

1.03 SPECIAL DEVICES
A. Manual motor starter switch: SQ. D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES
A. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

B. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WIU-1.

C. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

D. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

E. Color:
1. Wall plates mounted in FRP or tile shall be smooth satin stainless steel 302-ss series.
2. Wall plates mounted in wood finish shall be brown nylon plastic.
3. Isolated ground wall plates shall be orange nylon plastic with a circuit number printed in 3/16 inch black lettering on clear adhesive label adhered to plate.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting
1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
3. Install switches with off position down.
4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
5. Use jumbo sized plates for outlets installed in masonry walls.
6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing
1. Test each switch and verify proper operation with energized circuit.
2. Test each receptacle for proper polarity on energized circuit.
3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)
A. Square-D (for all Regions): Refer to General Sheets (G-Sheets) for Chick-fil-A National Accounts Program Contact Information.

1.02 PANELBOARD FEATURES
A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

B. Bus bars shall be copper.

C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

I. MDP 100% rated main breaker, 1200 Amps or higher, shall be equipped with Arc Flash Maintenance Setting switch for use as a temporary arc-flash incident energy reduction device during maintenance activities.

J. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

C. Provide blank filler plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES
PART 1 - PRODUCTS

1.01 MANUFACTURERS
A. Square D
B. GE / ABB
C. Siemens

1.02 ENCLOSED SWITCHES
A. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.

B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION
A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.

B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.

C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Furnish service entrance conduit, cable, and miscellaneous hardware as required by plans and specifications for electrical service entrance and system grounding at main electrical service.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION
A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.

B. Ensure pad mounted transformer is not located within roadway or sidewalk.

C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
1. Concrete pad for utility transformer with required dimensions and details.
2. Primary underground conduit, excavation, and backfill requirements.
3. Pay for all fees associated with establishment of electrical service.
4. Furnish list of loads to the electrical utility company serving the facility.
5. Verify that utility company clearances are provided on all sides of utility equipment.

D. Ensure proper access to utility equipment is maintained.

E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required. Cap spare conduits 12 inches above grade with plumbers pipe cap.

F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS
A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor. Refer to General Sheets (G-Sheets) for Chick-fil-A National Accounts Program Contact Information.

B. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.

1.02 FIXTURE REQUIREMENTS
A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.

B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.

D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.

E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.

F. Energy saving ballasts and energy saving lamps provided shall be compatable for operation together.

G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.

H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS
A. Lighting contactors shall be Square-D, GE / ABB, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS
A. Batteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

G. Install accessories furnished with each fixture.

H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.

3.02 FIELD QUALITY CONTROL
A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install raceway system for music / communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Interior system equipment will be furnished by Owner's Vendor.

C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Minimum conduit size shall be 3/4".

C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

E. Terminate each conduit stub-up or termination with nylon insulated bushings.

F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
3. Names and addresses of at least one qualified service agency.
4. A complete narrative of how each system is intended to operate.

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PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-002

2018 IECC COMMISSIONING REQUIREMENTS

C408.3 LIGHTING SYSTEMS AND CONTROLS SHALL BE COMMISSIONED IN ACCORDANCE WITH THIS SECTION.

C408.3.1 CONDUCT FUNCTIONAL PERFORMANCE TESTING ON LIGHTING CONTROL SYSTEMS TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL PERFORMANCE TESTING SHALL APPLY TO SENSORS AND CONTROLS IN THE FOLLOWING SECTIONS.

C408.3.1.1 CONDUCT FUNCTIONAL PERFORMANCE TESTING FOR OCCUPANT SENSOR CONTROLS AS REQUIRED BY THIS SECTION.

1. CERTIFY THAT SENSORS HAVE BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECTS UP TO (7) OCCUPANCY SENSORS, ALL OCCUPANCY SENSORS SHALL BE TESTED.
3. FOR PROJECTS WITH MORE THAN (7) OCCUPANCY SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. A MINIMUM SAMPLING RATE OF 10 PERCENT SHALL BE EMPLOYED FOR MULTIPLE COMBINATIONS OF SENSOR TYPE AND SPACE GEOMETRY TO VERIFY OPERATION. FOR SENSORS BEING TESTED, THE FOLLOWING TESTING CHECKS SHALL BE PERFORMED.
4. ENSURE STATUS INDICATORS OPERATE CORRECTLY WHERE APPLICABLE.
5. ENSURE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
6. ENSURE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN A PERSON ENTERS THE SPACE FOR AUTO-ON SENSORS.
7. ENSURE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED FOR MANUAL-ON SENSORS.

8. ENSURE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN NEARBY AREAS OR BY HVAC OPERATION.

C408.3.1.2 CONDUCT FUNCTIONAL PERFORMANCE TESTING FOR TIME-SWITCH CONTROLS AS REQUIRED BY THIS SECTION.

1. CONFIRM THAT AUTOMATIC TIME-SWITCH CONTROL IS PROGRAMMED WITH APPROPRIATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES. CONFIRM SCHEDULE SETUP WITH BUILDING MANAGEMENT PERSONNEL.
2. PROVIDE OWNER DOCUMENATION OF AUTOMATIC TIME-SWITCH PROGRAMMING SCHEDULES, AS WELL AS ALL SETUP AND TAILORED PROGRAM SETTINGS.
3. VERIFY THAT CORRECT DATE AND TIME SETTINGS ARE PROPERLY SET IN THE TIME-SWITCH. ENSURE CORRECT TIME ZONE AND DAYLIGHT SAVINGS TIME CHANGEOVER POINTS ARE ACCOUNTED FOR IN PROGRAMMING.
4. VERIFY TIME-SWITCH BATTERY BACKUP (WHERE APPLICABLE) IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NO MORE THAN (2) HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
7. ENSURE ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
8. ENSURE THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
9. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
10. ENSURE ALL NON-EXEMPT LIGHTING TURNS OFF.
11. ENSURE MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUT OFF OCCURS.

C408.3.1.3 CONDUCT FUNCTIONAL PERFORMANCE TESTING FOR DAYLIGHT RESPONSIVE CONTROLS AS REQUIRED BY THIS SECTION.

1. ALL PHOTOCELLS SHALL BE PROPERLY LOCATED, FIELD CALIBRATED, AND SET AT APPROPRIATE SETPOINTS AND LIGHTING LEVEL THRESHOLDS.
2. ENSURE DAYLIGHT CONTROLLED LIGHTING FIXTURES ADJUST OUTPUT TO APPROPRIATE LIGHT LEVELS IN RESPONSE TO AVAILABLE DAYLIGHT.
3. ENSURE THE LOCATION WHERE DAYLIGHT DIMMING CALIBRATION ADJUSTMENTS ARE MADE IS READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

C408.3.2 COMMISSIONING DOCUMENTATION OUTLINED IN SECTION C408 SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. PROVIDE COMMISSIONING DOCUMENTS TO THE RELEVANT BUILDING INSPECTOR WITH THE AUTHORITY HAVING JURISDICTION AS REQUIRED.

C408.3.2.1 CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT COVERED IN 2020 NYSECC.

C408.3.2.2 PROVIDE AN OPERATION AND MAINTENANCE MANUAL WHICH INCLUDES THE FOLLOWING:

1. PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
2. PROVIDE A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
3. PROVIDE SUBMITTAL DATA FOR LIGHTING EQUIPMENT AND CONTROLS.
4. PROVIDE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR LIGHTING EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
5. PROVIDE A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.

C408.3.2.3 PROVIDE A FINAL COMMISSIONING REPORT TO THE OWNER INCLUDING THE FOLLOWING.

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

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SHEET
ELECTRICAL COMMISSIONING REQUIREMENTS

SHEET NUMBER
E-003

ELECTRICAL SITE PLAN KEYNOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. PROPOSED LOCATION OF SECONDARY UNDERGROUND ELECTRICAL UTILITY LINES.
2. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY.
   A. LANDLORD TO PROVIDE THREE 4", SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 30" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
   B. LANDLORD TO PROVIDE FOUR 4", SCH. 40 PVC CONDUIT FROM UTILITY TRANSFORMER TO LOCATION WITHIN 5' OF THE CT CABINET. ELECTRICAL CONTRACTOR TO EXTEND CONDUIT TO PANEL 'MDP' VIA THE CT CABINET AND PROVIDE SERVICE CONDUCTORS FROM THE SECONDARY OF THE UTILITY TRANSFORMER. SEE SINGLE-LINE DIAGRAM AND "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL" FOR ADDITIONAL INFORMATION.
   C. CONCRETE PAD FOR UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
   D. METERING CONDUIT. SEE NOTE-14.
3. LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO "SINGLE-LINE
4. A. LANDLORD TO PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO LOCATION WITHIN 5' OF THE BUILDING. ELECTRICAL CONTRACTOR TO EXTEND TO JUNCTION BOX INSIDE THE BUILDING. REFER TO "POWER AND SYSTEMS PLAN" FOR LOCATION OF JUNCTION BOX IN TECH CLOSET. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
   B. LANDLORD TO PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO LOCATION WITHIN 5' OF THE BUILDING. ELECTRICAL CONTRACTOR TO EXTEND TO JUNCTION BOX INSIDE THE BUILDING. REFER TO "POWER AND SYSTEMS PLAN" FOR LOCATION OF JUNCTION BOX IN TECH CLOSET. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL" FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
5. LOCATION OF DUMPSTER. REFER TO "ORDER CANOPY PLAN AND REFUSE ENCLOSURE", FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
6. REFER TO "ORDER CANOPY PLAN AND REFUSE ENCLOSURE" AND WIRING DIAGRAMS FOR ELECTRICAL REQUIREMENTS AT MENU BOARD, DRIVE-THRU CANOPY, AND PRESELL MENU BOARD.
7. REFER TO ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
8. REFER TO "LIGHTING PLAN" FOR LIGHTING FIXTURE SCHEDULE.
9. LANDLORD TO PROVIDE UNDERGROUND CONDUIT TO LOCATION WITHIN 5' OF THE BUILDING. ELECTRICAL CONTRACTOR TO EXTEND TO ACCESSIBLE CEILING SPACE ABOVE OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO E-401 FOR LOCATION AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. ELECTRICAL CONTRACTOR TO CONNECT LANDLORD PROVIDED AND INSTALLED SITE LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES.
11. ELECTRICAL CONTRACTOR TO CONNECT LANDLORD PROVIDED AND INSTALLED SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). REFER TO ELECTRICAL PANEL SCHEDULES FOR MORE INFORMATION. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A REPRESENTATIVE PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG. THIS RECEPTACLE SHALL NOT BE SWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
15. PROVIDE A 12' POLE FOR MOUNTING OF SECURITY CAMERA. POLE TO MATCH SITE LIGHTING POLES IN STYLE AND COLOR.

GENERAL ELECTRICAL SITE PLAN NOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

A. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.

B. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.

C. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.

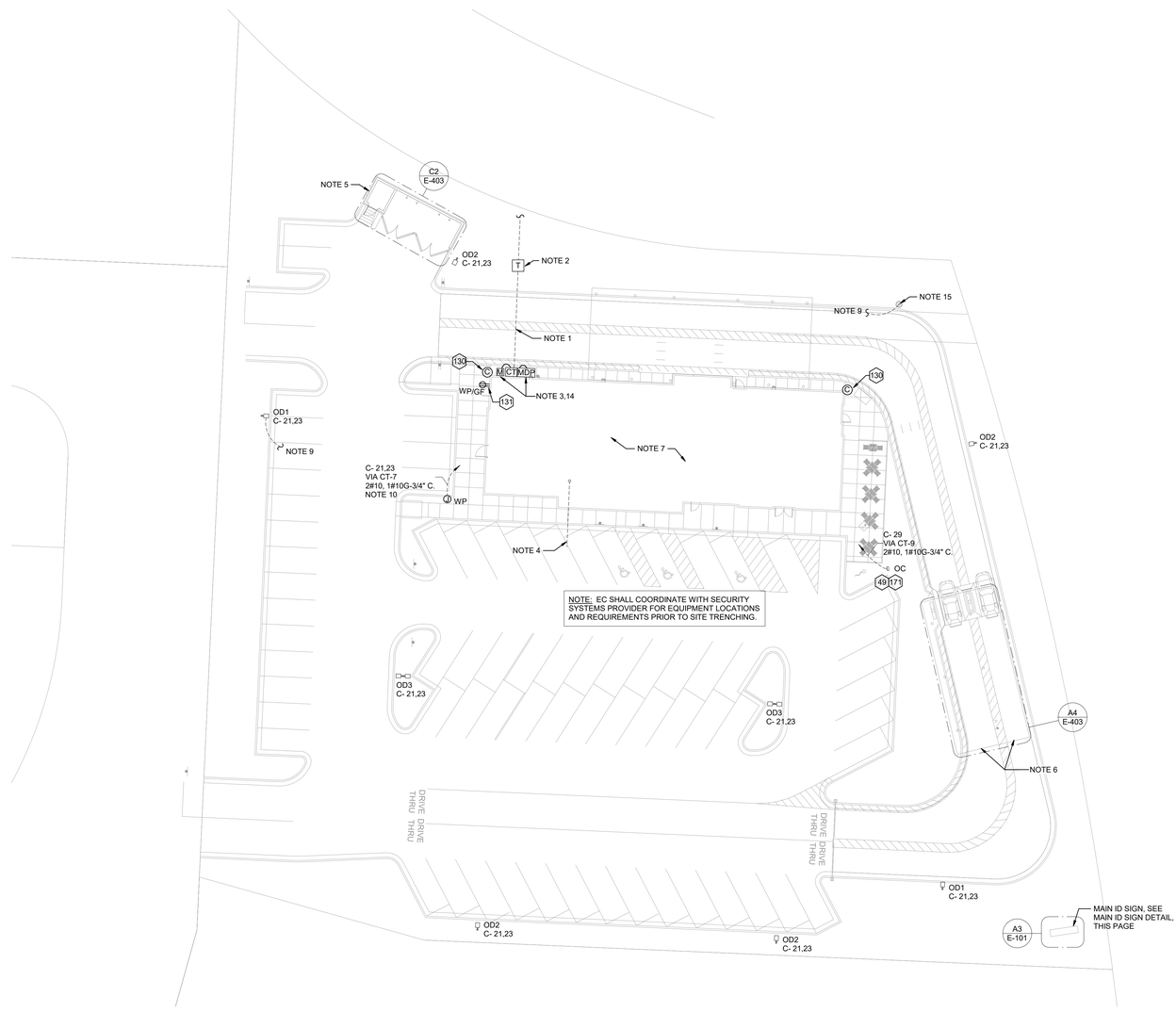
D. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.

E. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.

F. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").

G. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

H. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.



A1 ELECTRICAL SITE PLAN
1" = 20'-0"

ELECTRICAL KEYNOTES

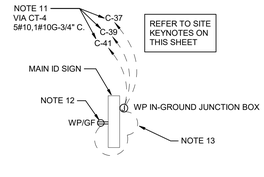
49	MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.
130	LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.
131	PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18"AFF WITH 'IN-USE' STYLE LOCKABLE WP COVER AND CONNECT TO A GENERAL PURPOSE 120V RECEPTACLE CIRCUIT.
171	FLAG POLE LIGHT FIXTURE TYPE 'OC'. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DETAIL.

ELECTRICAL SITE PLAN SYMBOLS

SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GFCI	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	CONDUIT HOMERUN TO PANEL
J	IN-GRADE JUNCTION BOX
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE.

SIGNAGE NOTE

THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



A3 MAIN ID SIGN DETAIL
N.T.S.

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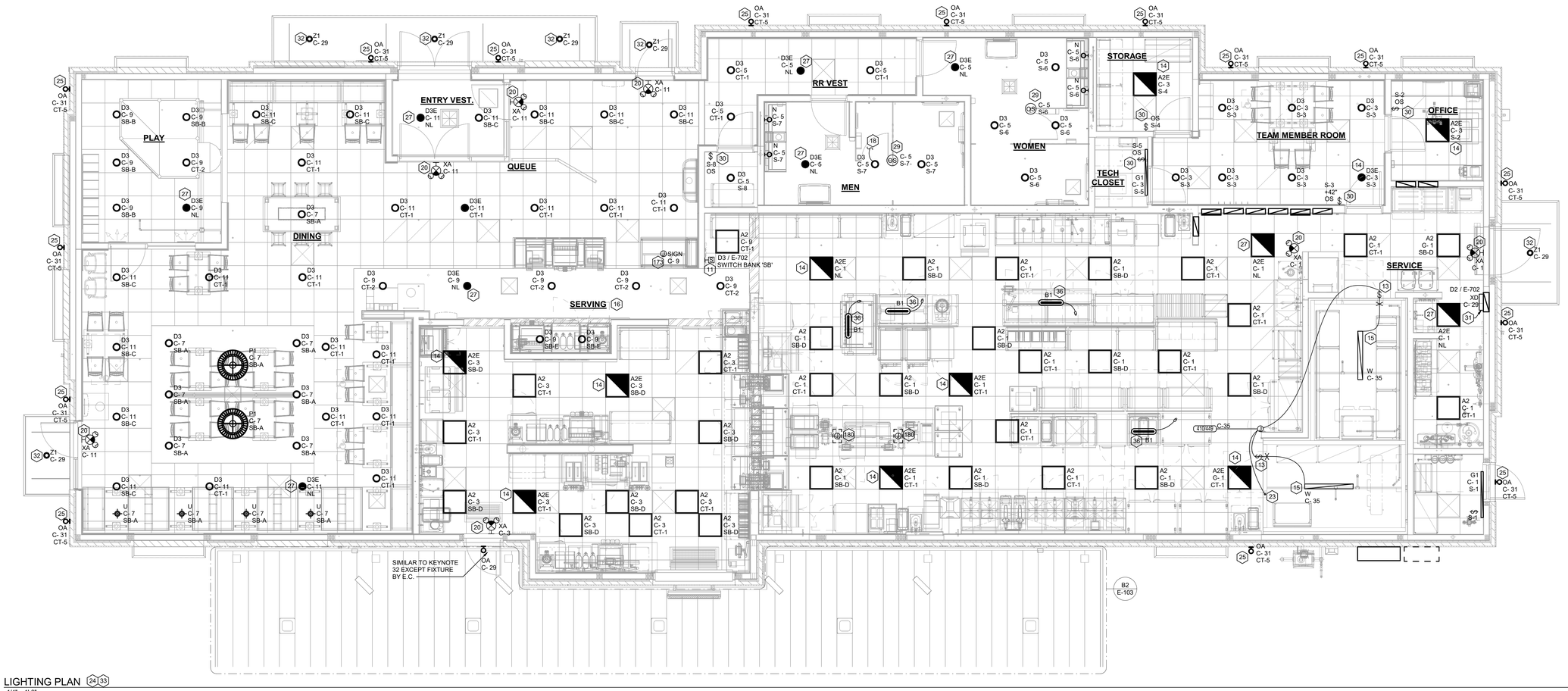
SHEET
SITE LIGHTING AND POWER PLAN

SHEET NUMBER
E-101



C1 LIGHTING PLAN (24) (33)
1/4" = 1'-0"

ELECTRICAL KEYNOTES

11 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.

13 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.

14 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.

15 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

16 THE LIGHT FIXTURES IN THE MEAL FULFILLMENT AREA ARE PROVIDED WITH LAMP SHIELDING VIA A LENS.

18 TO THE TOILET EXHAUST FAN ON ROOF. SEE SHEET E-105, ROOF ELECTRICAL PLAN.

20 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.

23 TO WALK-IN FREEZER DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY (PRESSURE REDUCTION VALVE - PRV), THRU SEAL-OFF FITTING. VERIFY ROUGH-IN AND FINAL CONNECTION WITH EQUIPMENT.

24 SEE SITE ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' GROUND MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)

25 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

27 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.

29 PROVIDE A CEILING MOUNTED 'DUAL TECHNOLOGY' LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSORSWITCH #CMR-PDT-9. SENSOR SHALL CONTROL LIGHTS IN PUBLIC RESTROOM ONLY.

30 PROVIDE A WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR SWITCH EQUIVALENT TO SENSORSWITCH # WSX SERIES. OCCUPANCY WITH DIMMING (WSX-D-SA-WH) SHALL BE PROVIDED IN TEAM MEMBER ROOM. OCCUPANCY WITHOUT DIMMING (WSX-SA-WH) SHALL BE PROVIDED IN FLEX, TECH CLOSET, AND OFFICE. WIRE LIGHTS IN ROOM UPSTREAM OF T-500 CONTACTOR.

31 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

32 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.

33 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.

36 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.

ELECTRICAL KEYNOTES

112 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.

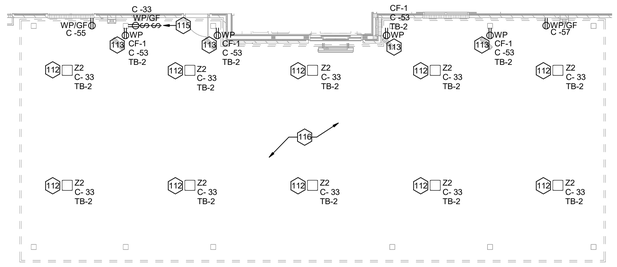
113 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX GFCI RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUT FOR THE FAN'S PLUG AND CORD CONNECTION.

115 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND ONE 120V SINGLE-POLE SWITCH (WITH HUBBELL #RW51550 WP COVER PLATE) AND ONE SINGLE-POLE DOUBLE THROW SWITCH (WITH HUBBELL #RW51550 WP COVER PLATE) MOUNTED IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATTE BLACK.

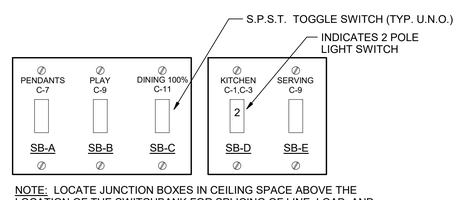
116 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.

173 JUNCTION BOX MOUNTED ABOVE CEILING FOR ELECTRICAL CONNECTION TO PICK-UP COUNTER SIGNAGE. COORDINATE FINAL LOCATION WITH FURNITURE PLANS.

180 COORDINATE WITH THE EQUIPMENT SYPPLIER FOR CHASE LOCATIONS ON THE STRAIGHT LINE TABLE. CEILING MOUNTED JUNCTION BOX AND ASSOCIATED COLLAR SHALL BE LOCATED AT THE NEAREST CEILING GRID INTERSECTION TO PROVIDE ADEQUATE SUPPORT. REFER TO ELECTRICAL KITCHEN PLAN FOR ASSOCIATED STRAIGHT LINE TABLE CIRCUIT REQUIREMENTS.

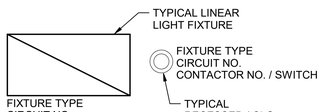


B2 CANOPY POWER PLAN
1/8" = 1'-0"



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

B1 SWITCH BANK "SB" DETAIL
NO SCALE



A3 LIGHT FIXTURE NOMENCLATURE
NO SCALE

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P14 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P14 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
A2E	COOPER/METALUX	22FP4240C-EL14W	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC620D010-HM60525830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/HALO	HC620D010-HM60525830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
G1	COOPER/METALUX	4SLSTP4040D-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT, MTD ABOVE DOOR FRAME OR CEILING
N	GEORGE KOVACS	P5040-66A-L	Z08 SMD LED/Y53 LED MODULE	12 VA	120 V	WALL	LAVATORY WALL SCONCE CL ON LAVATORY
OA	PROGRESS LIGHTING	P5675-31/30K WITH P860038 TOP COVER LENS	INTEGRAL WITH FIXTURE	34 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER
OC	HUBBELL	FLL-42L-95-4K-7-N-U-K-DB (SEE NOTE 3)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD ON GRADE ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OK	HUBBELL	LNC-5LU-3K-S-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)
P1	MEYDA	202232-16-LED (264088)	INTEGRAL WITH FIXTURE	16 VA	120 V	PENDANT	31" DIA PEACH BASKET LED PENDANT WITH BTM AT 6'-8" ABV TABLES
U	BESA LIGHTING	BES00298-060	FURNISHED	9 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-8" AFF CENTERED ABOVE TABLES
W	HOWARD LIGHTING	EVSL44040MVS	INTEGRAL WITH FIXTURE	40 VA	120 V	SURFACE	50" VAPOR-TIGHT LED FIXTURE PROVIDED BY THERMO-KOOL
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LTG; ON AT DUSK, OFF AT DAWN, ON DURING PWR OUTAGE
Z1	COOPER/HALO	SLD4SL4069S1EMWR	INTEGRAL WITH FIXTURE	9 VA	120 V	RECESSED	4" DIAMETER, WET LOCATION, TRIM: SLD4TRMWH (PAINT TO MATCH CANOPY), COLOR TEMPERATURE TO BE SET TO 3000K
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR

NOTES:
1. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.
2. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P14 PROTOTYPE.
3. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) FOR GLARE CONTROL.

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STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

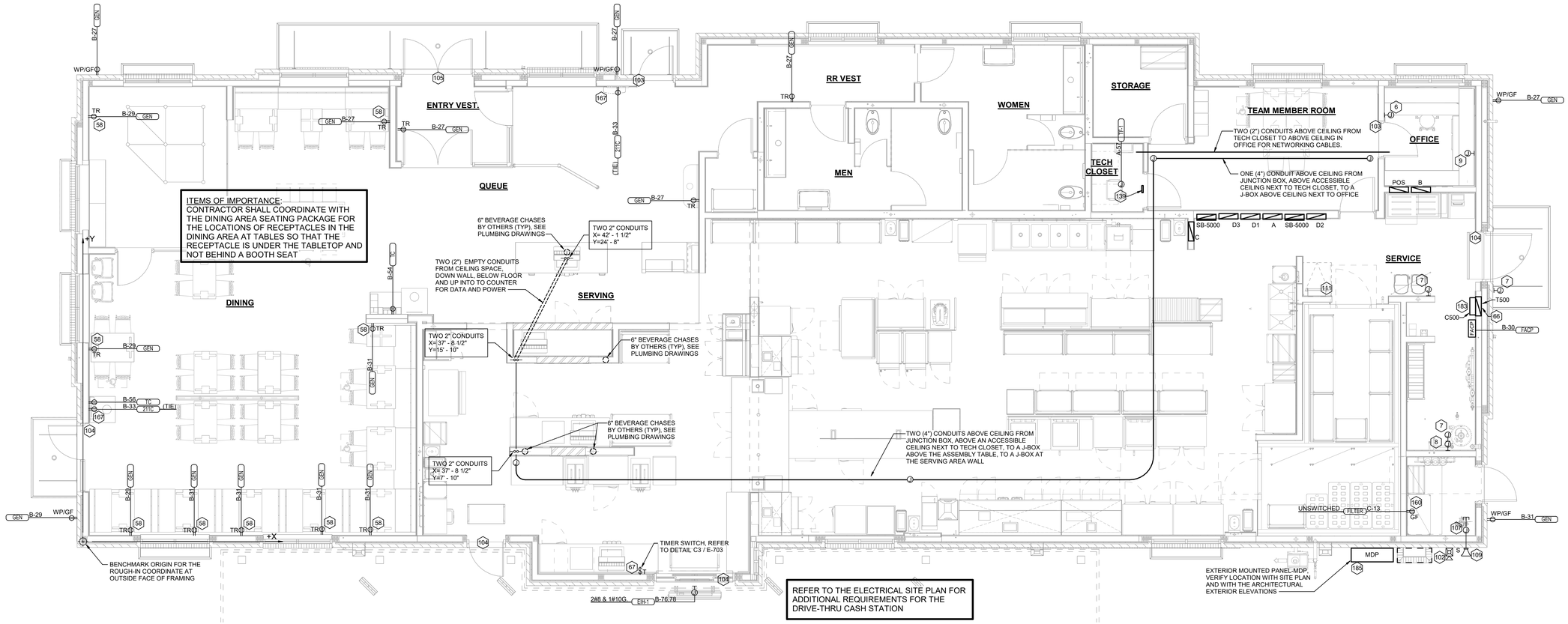
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
LIGHTING PLAN

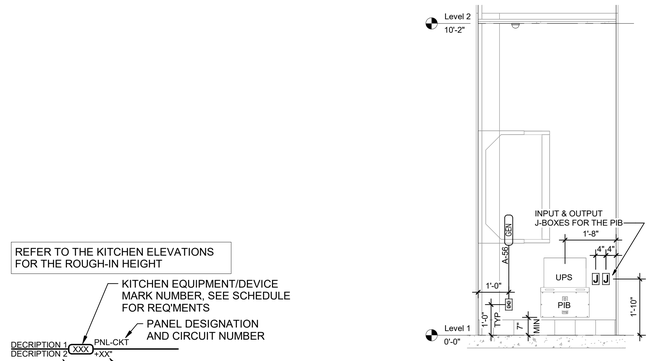
SHEET NUMBER
E-103



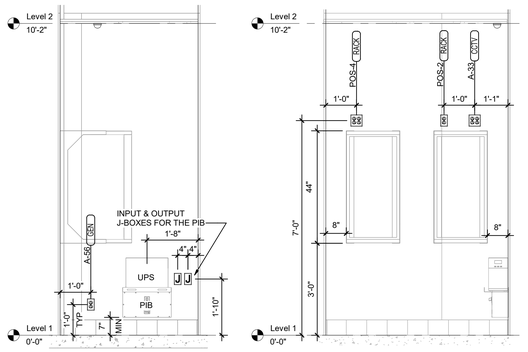
C1 POWER AND SYSTEMS PLAN
1/4" = 1'-0"

ELECTRICAL KEYNOTES

6	CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
7	CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
8	CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
9	CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566
58	TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART # TR7756-B (BROWN) WITH MATCHING COLOR 'DECOR' STYLE PLATE. VERIFY COLOR WITH OWNER.
64	PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
66	THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.
67	TIMER SWITCH FOR OUTSIDE ELECTRIC HEATER. REFER TO E501 FOR DETAILS AND E702, E703 FOR WIRING SCHEMATICS.
102	PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.
103	EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
104	EXTEND 3/4" RIGID CONDUIT FROM ELECTRIC STRIKE MOUNTING POINT IN DOOR FRAME TO ABOVE ACCESSIBLE CEILING.
105	EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
107	PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "109" BOX NOTED BELOW.
109	PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "107" ABOVE.
111	PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.
139	ACCESS CONTROL PANELS LOCATED ABOVE DOOR. SECURITY CONTRACTOR TO INSTALL AND PROVIDE POE.
160	VERIFY WITH THE PLUMBING PLANS FOR THE LOCATION OF THE WATER FILTER OUTLET.
167	PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
183	SEMI-FLUSH C500 CONTROL PANEL LOCATED ABOVE CFA-T500 CONTROL PANEL.
185	GC MUST OBTAIN ON-SITE ERMS TESTING THROUGH A CERTIFIED THIRD PARTY. THE NOTARIZED TESTING DOCUMENT MUST CONTAIN THE PERMIT NUMBER AND BE PROVIDED AT THE TIME OF THE ELECTRICAL INSPECTION. ONCE APPROVED BY THE ELECTRICAL INSPECTOR, THE ERMS OPERATING PROCEDURE MUST BE LAMINATED AND AFFIXED TO THE INTERIOR SIDE OF THE MDP DOOR.



B5 KITCHEN EQUIP NOMENCLATURE
NO SCALE

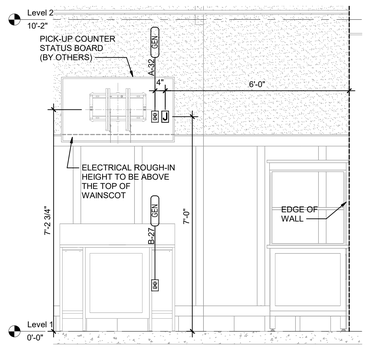


B4 TECH CLOSET ELEV
1/2" = 1'-0"

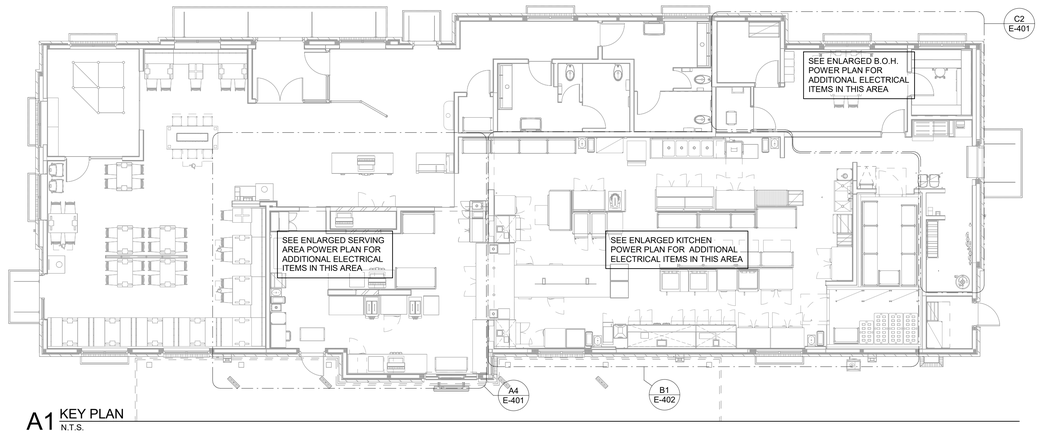
B3 TECH CLOSET ELEV
1/2" = 1'-0"

B2 TECH CLOSET ELEV
1/2" = 1'-0"

B1 TECH CLOSET ELEV
1/2" = 1'-0"



A3 PICK-UP COUNTER ELEV
1/2" = 1'-0"



A1 KEY PLAN
N.T.S.

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CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-104

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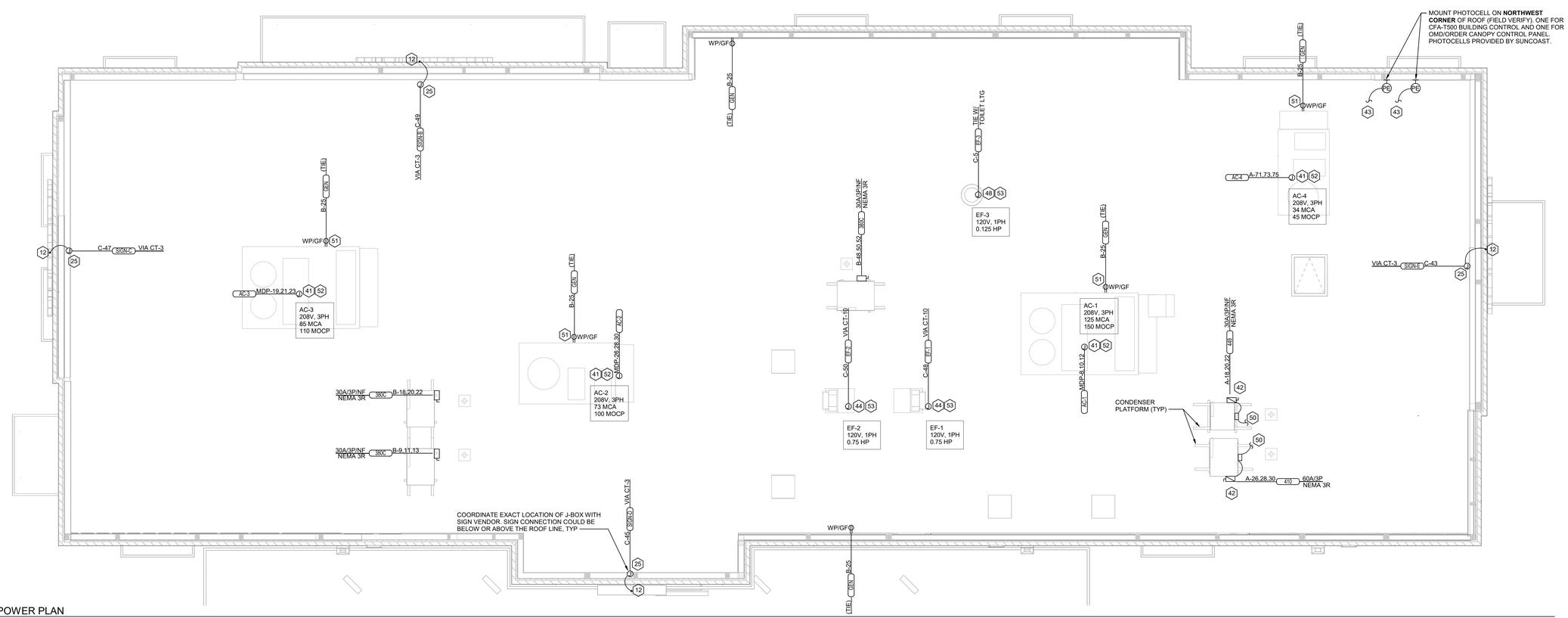

C1 ROOF POWER PLAN
1/4" = 1'-0"

ELECTRICAL KEYNOTES

12 FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.

25 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

41 ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.

42 MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.

43 CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.

44 COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.

48 COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.

50 CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.

51 CONTRACTOR SHALL PROVIDE A 120V GFCI TYPE 20 AMP CONVENIENCE RECEPTACLE WITH WP (WHILE-IN-USE) COVERPLATE MOUNTED TO THE KNOCKOUT PANEL OF THE UNIT AC UNIT.

52 A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.

53 EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT AND INTEGRAL OVERLOAD PROTECTION.

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC.

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GREGORY L. DOFFIN
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CHICK-FIL-A
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NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
ROOF POWER PLAN

SHEET NUMBER
E-105

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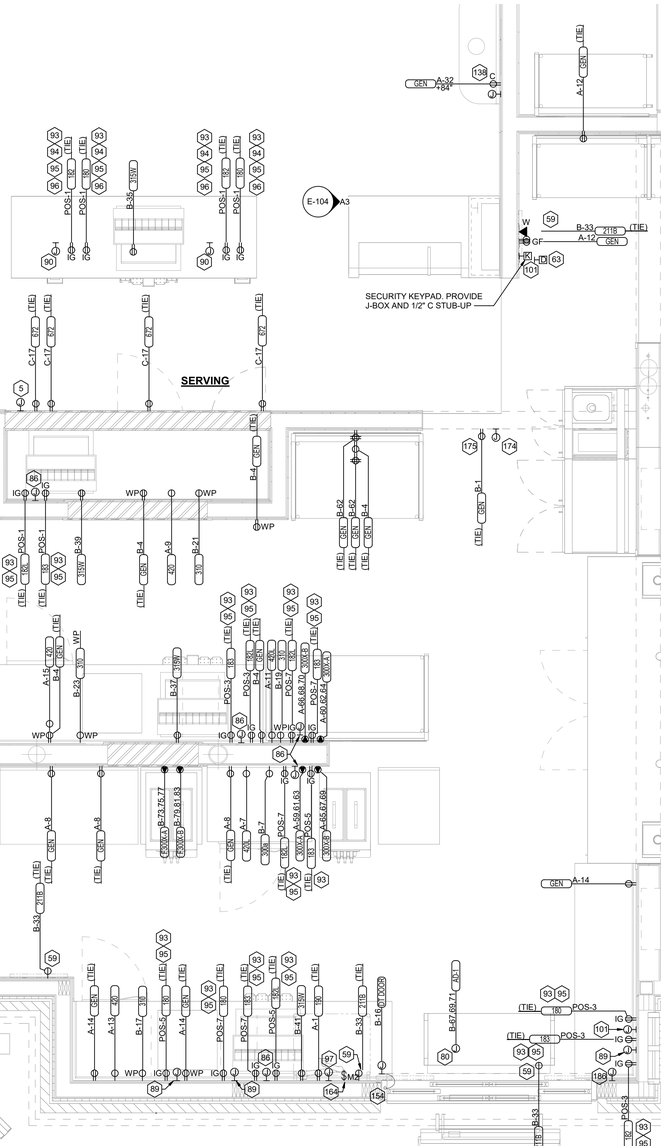
50-LSR-05248-E-105-ROOF POWER PLAN

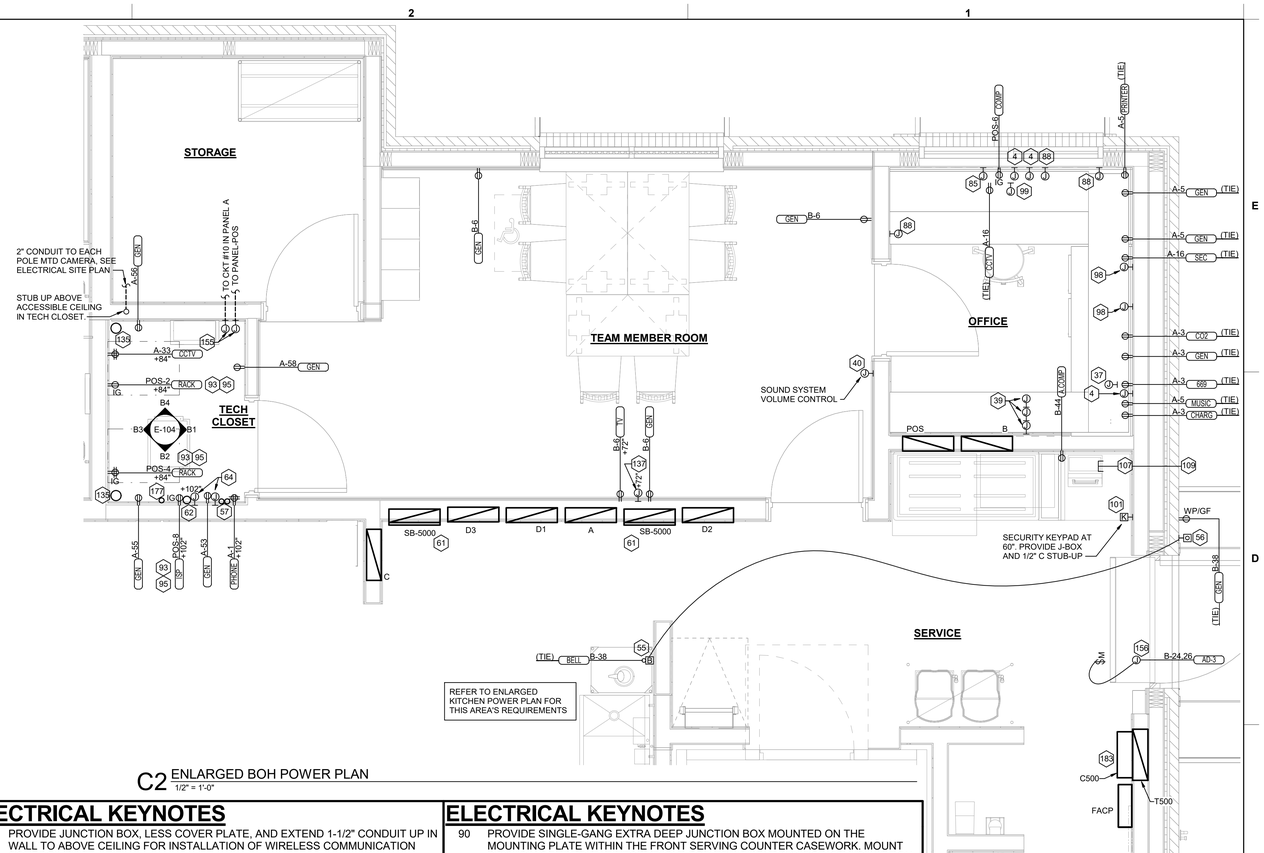
NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)



A4 ENLARGED SERVING AREA POWER PLAN
1/2" = 1'-0"



C2 ENLARGED BOH POWER PLAN
1/2" = 1'-0"

ELECTRICAL KEYNOTES

2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1-1/2" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.

4 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.

5 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR FUTURE MENU BOARD CABLES.

37 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.

39 THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.

40 PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.

55 PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.

56 PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCHPLATE.

57 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

59 PROVIDE SIMPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN A SINGLE-GANG BOX FOR THE FLY SYSTEM ITEMS.

61 SB6000 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCKBLOCK GFCI PROTECTION DEVICES. SB6100 SHOCK BLOCK GFCI PROTECTION DEVICE, AND SB5000 SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.

62 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE, REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

63 PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.

64 PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.

73 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.

80 JUNCTION BOX ABOVE CEILING FOR AIR CURTAIN.

85 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.

86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.

88 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.

89 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.

ELECTRICAL KEYNOTES

90 PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

93 PROVIDE 5-15R ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

94 MC CABLE RUN TO SERVING COUNTER IN UNDERGROUND CONDUIT SHALL BE PROVIDED WITH PVC JACKET AND WET LOCATION LISTED.

95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

96 THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

97 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

98 PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.

99 PROVIDE 4"W X 4"H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT UP INTO THE ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END. PROVIDE A SINGLE-GANG JUNCTION BOX ADJACENT TO THE DOUBLE-GANG BOX WITH A 1.5" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.

101 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR SECURITY KEYPAD. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

106 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE FOR POS. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

107 PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "109" BOX NOTED BELOW.

109 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "107" ABOVE.

135 PROVIDE 4" EMPTY CONDUIT FROM 6" ABOVE THE TOP OF THE NETWORK RACK TO ABOVE ACCESSIBLE CEILING.

137 PROVIDE A SINGLE GANG JUNCTION BOX AT +72" A.F.F. WITH 3/4" CONDUIT STUBBED UP INTO CEILING SPACE FOR TV.

138 PROVIDE A JUNCTION BOX WITH A 3/4" CONDUIT STUBBED UP INTO CEILING SPACE FOR THE PICK-UP STATUS BOARD MONITOR. MOUNT AT +84" A.F.F.

154 CONCEAL CONNECTION FROM J-BOX TO DOOR IN WALL. POWER TO BE RUN THROUGH 1" MAX HOLE CENTERED IN THE WIDTH OF THE HEADER. VERIFY WITH STRUCTURAL ON EXACT LOCATION.

155 LOCATION OF THE INPUT & OUTPUT J-BOXES FOR THE PIB (POWER INTERFACE BOX) PROVIDED BY THE OWNER.

156 AIR CURTAIN WITH MICROSWITCH FURNISHED BY MECHANICAL CONTRACTOR.

157 PROVIDE PLUG AND CORDSET.

158 LABEL AS SWITCHED OUTLET.

164 ON/OFF SWITCH FOR AIR CURTAIN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

167 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.

174 PROVIDE A JUNCTION BOX WITH 1" CONDUIT STUBBED UP INTO CEILING SPACE FOR REQUIRED CABLES FOR SECURITY CAMERA(S) LOCATED ABOVE THE SERVING COUNTER.

175 PROVIDE A JUNCTION BOX WITH A 3/4" CONDUIT STUBBED UP INTO CEILING SPACE FOR SECURITY MONITOR POWER.

177 2" CONDUIT STUBBED UP THRU ROOF FOR STELLITE/CELLULAR ANTENNAE. REFER TO ARCHITECTURAL FOR PENETRATION THROUGH ROOF.

183 SEMI-FLUSH C500 CONTROL PANEL LOCATED ABOVE CFA-T500 CONTROL PANEL.

186 PROVIDE JUNCTION BOX WITH 3/4" CONDUIT STUBBED INTO CEILING SPACE AT DRIVE-THRU DOOR FOR SECURITY PANIC BUTTON PROVIDED BY SECURITY VENDOR.

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DEI #: 24009.68

STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
ENLARGED SERVING AND BOH POWER PLAN

SHEET NUMBER
E-401

ELECTRICAL KEYNOTES

54 PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR FS PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.

60 PROVIDE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AT THE UNIT'S EVAPORATOR COIL.

61 SB6000 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCKBLOCK GFCI PROTECTION DEVICES, SB6100 SHOCK BLOCK GFCI PROTECTION DEVICE, AND SB5000 SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.

68 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.

69 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.

71 CONNECT AS REQUIRED TO CJ FAN VIA THE HOOD SUPPLIED SPEED CONTROLLER. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.

73 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.

74 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE FS SYSTEM PANEL(S). SEE FS SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-702 FOR ADDITIONAL INFORMATION.

77 THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTERGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.

79 SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-501 FOR FURTHER INFORMATION.

81 OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.

82 PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) DUPLEX OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

83 COORDINATE WITH THE EQUIPMENT SUPPLIER FOR THE CHASE LOCATIONS. ROUTE ONE SET OF CIRCUIT 'A' THRU 'H' AND POS CIRCUIT TO EACH JUNCTION BOX PROVIDED ABOVE CEILING. CONNECT TO PREWIRED LABELED CIRCUITS. ENSURE CIRCUITS ARE LABELED CORRECTLY FOR EACH PREWIRED OUTLET PROVIDED IN EACH CHASE.

86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.

91 PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

92 3/4" FLEX PROVIDED FOR DATA CABLES IN CHASE.

93 PROVIDE 5-15R ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

ELECTRICAL KEYNOTES

95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

100 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.

134 PROVIDE A JUNCTION BOX WITH A 1" CONDUIT FOR DATA AND/OR SYSTEMS STUBBED UP INTO CEILING SPACE FOR APPROVED OPERATOR OPTIONAL EQUIPMENT.

151 PROVIDE J-BOX WITH 1" FLEX CONDUIT FROM ACCESSIBLE CEILING SPACE DOWN WALL TO ELECTRICAL CHASE IN MILLWORK STUBBED OUT AT 2'-4" AFF. PROVIDE 6' EXTRA FLEX CONDUIT COILED UP AT INSIDE FACE OF JAMB. ROUTE FLEX CONDUIT TO 6"x6" J-BOX INSIDE MILLWORK CHASE. ROUTE BRANCH CIRCUITS FROM 6"x6" J-BOX TO INDIVIDUAL PIECES OF EQUIPMENT FOR CIRCUITS WITHIN THE MILLWORK.

162 PROVIDE J-BOX AND EXPANSION RING FOR PRESSURE RELIEF VALVE ELECTRICAL CONNECTIONS TO THE WALK-IN COOLER/FREEZER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

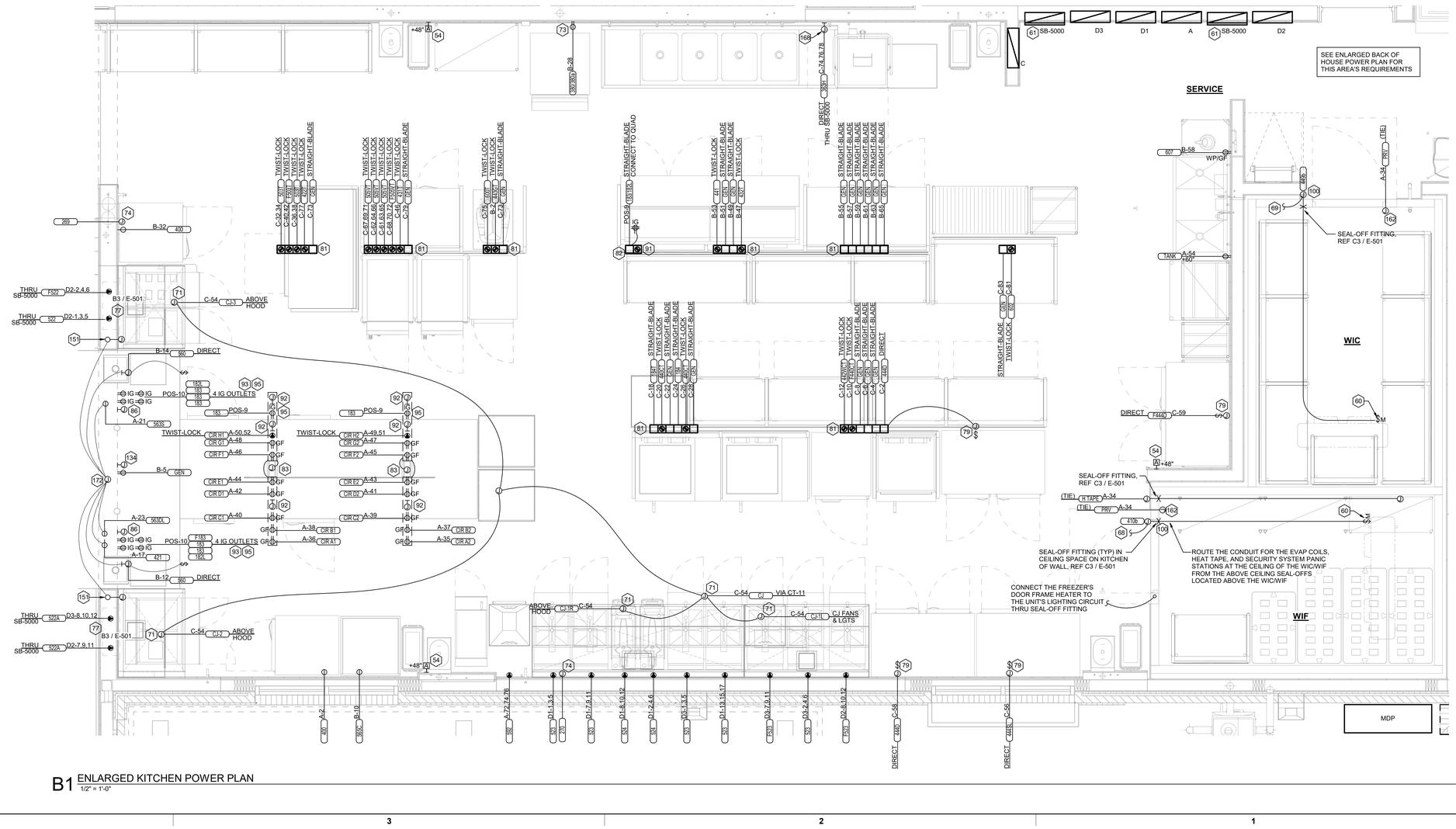
168 PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY AHJ. OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER.

172 PROVIDE 6"H X 6"W JUNCTION BOX BEHIND MILLWORK ACCESS PANEL ON FRY WARMER SIDE. PROVIDE MC CABLE TO ADJACENT CIRCUITS WITHIN THE MILLWORK, AS INDICATED.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



B1 ENLARGED KITCHEN POWER PLAN
1/2" = 1'-0"

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CHICK-FIL-A
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SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

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PRINTED FOR

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CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

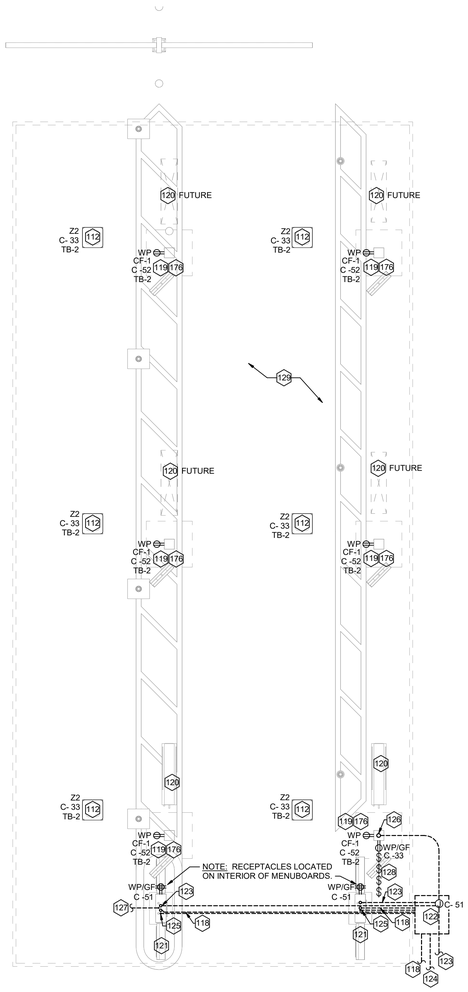
SHEET
ENLARGED KITCHEN POWER PLAN

SHEET NUMBER
E-402

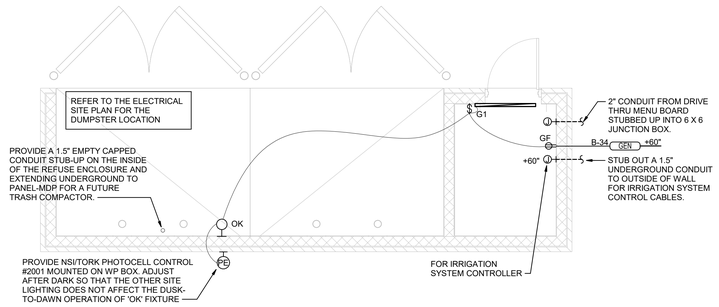
11/18/2024 8:47:11 AM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR/05248_Hwy 50 & SR 291 (MO) FSU_DEL_ELE.rvt
50-LSR-05248-E-402-ENLARGED KITCHEN POWER PLAN

ELECTRICAL KEYNOTES

112	CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
118	(2) 2" UNDERGROUND SCH40 PVC CONDUIT FOR MENU BOARD FIBER. PROVIDE PULL STRING. STUB INTO ACCESSIBLE CEILING SPACE AT TECH CLOSET OR OFFICE IF NO TECH CLOSET.
119	AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES' VIEW.
120	INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
121	MENUBOARD PROVIDED BY OTHERS.
122	PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
123	2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CIRCUITS, SEE WIRING SCHEMATIC.
124	2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DETECTOR LOOP CABLES. EXTEND CONDUITS UP INTO ACCESSIBLE CEILING SPACE ABOVE THE HME BOX IN THE DRIVE THRU AREA.
125	1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
126	INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.
127	2" CONDUIT FROM DRIVE-THRU MENU BOARD TO DUMPSTER ENCLOSURE ROOM FOR WIFI AND CAMERA CABLES.
128	PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE), TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE), AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED ON THE COLUMN IN B12 PLATES TO BE FIELD PAINTED MATTE BLACK.
129	ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF GAS PIPING ABOVE THE ROOF AND INSTALL CONDUIT ALONG THE SAME LOCATIONS USING THE SAME PIPE STAND FOR PIPING AND CONDUIT. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
176	MOUNT COOLING FAN TO OVERHEAD STRUCTURAL MEMBERS USING 1/2" STAINLESS SAE GRADE 5 FASTENERS. SEE CANOPY MFGR DETAILS FOR SUPPORT. PROVIDE DOUBLE NUT AT FAN END TO ALLOW ROTATION TO CORRECT POSITION. TYPICAL OF ALL FANS.



A4 MLOP ORDER CANOPY POWER PLAN
1/4" = 1'-0"



C2 REFUSE ENCLOSURE ELECTRICAL PLAN
1/4" = 1'-0"

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STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
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CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
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CONSULTANT PROJECT #	23-3906.00
DATE	11/18/2024
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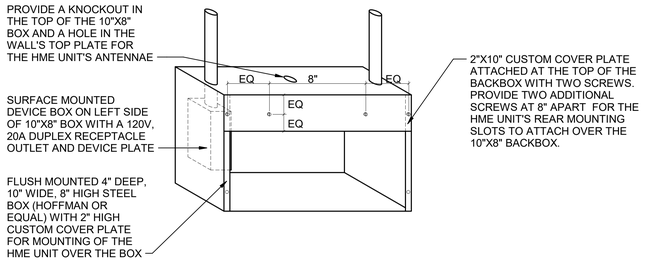
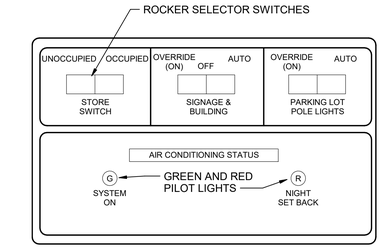
SHEET
ORDER CANOPY PLAN AND REFUSE ENCLOSURE

SHEET NUMBER
E-403

11/18/2024 8:47:15 AM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024.9_FSR/05248_Hwy 50 & SR 291 (MO) FSU_DEI_ELE.rvt
50-LSR-05248-E-403-ORDER CANOPY PLAN AND REFUSE ENCLOSURE

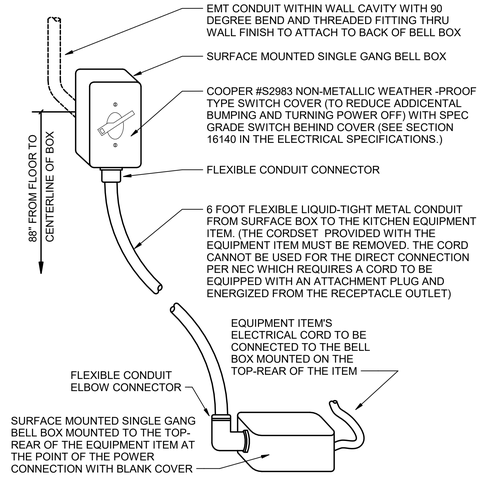


E3 HME UNIT POWER & DATA BOX DETAIL
N.T.S.

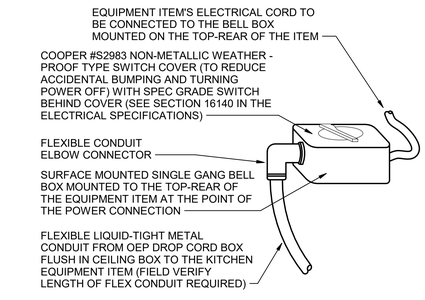


NOTE:
THIS UNIT IS MOUNTED IN THE DOOR OF THE CFA-T500 CONTROL CABINET AND IS INCLUDED WITH THE GEAR ORDER FROM SUNCOAST ENVIRONMENTAL INC.

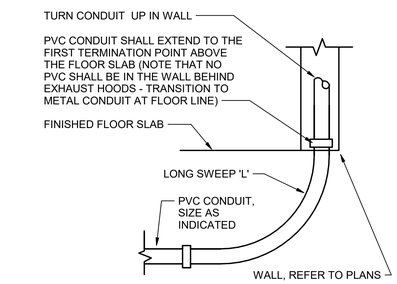
E2 OPEN-CLOSED CONTROL SWITCH
N.T.S.



C2 DIRECT CONNECTION -WALL LOCATION
N.T.S.



B2 DIRECT CONNECTION - ISLAND LOCATION
N.T.S.



A2 INTERIOR PVC CONDUIT DETAIL
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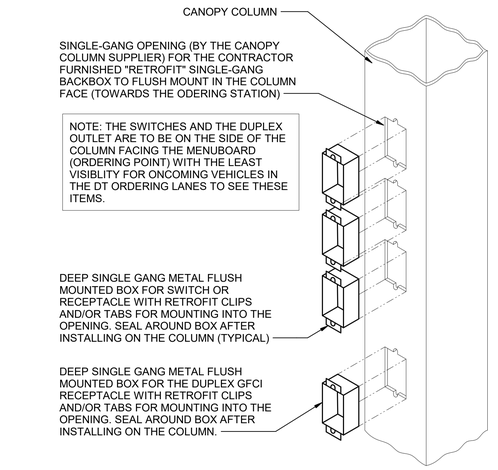
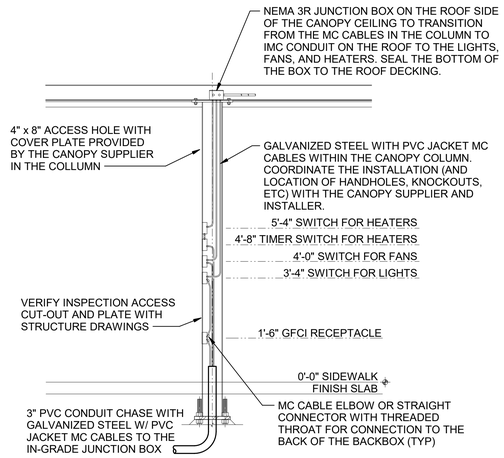


D1 CANOPY COLUMN ISOMETRIC
N.T.S.



B1 MLOP ORDER CANOPY COLUMN SECTION
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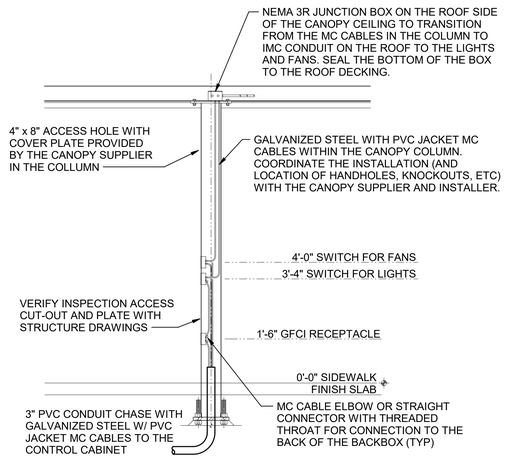

A1 MEAL DELIVERY CANOPY COLUMN SECTION
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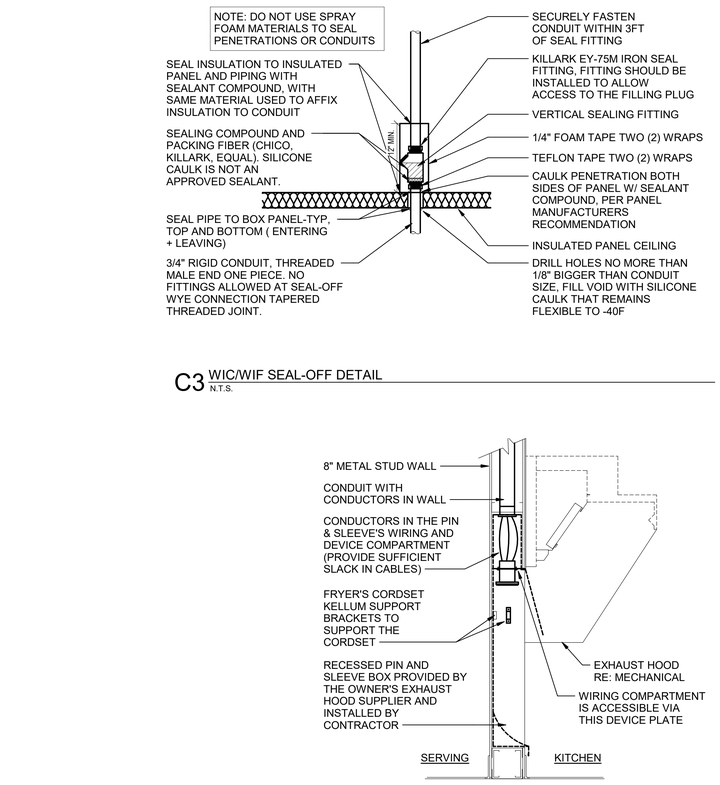

C3 WIC/WIF SEAL-OFF DETAIL
N.T.S.

B3 PIN & SLEEVE BOX DETAIL
N.T.S.

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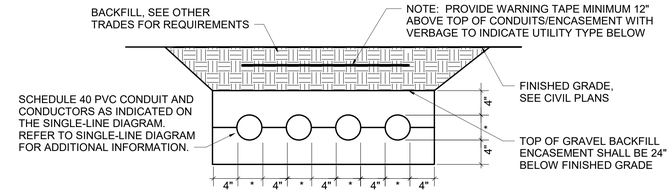
DRAWN BY NR

SHEET
DETAILS

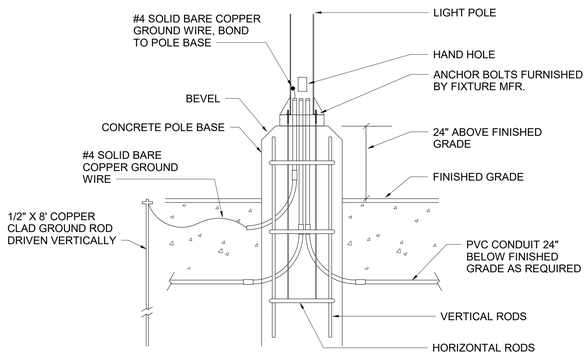
SHEET NUMBER
E-501

11/18/2024 8:47:19 AM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024 9_FSR(05248_Hwy 50 & SR 291 (MO) FSU_DEI_ELE.rvt
50-LSR-05248-E-501-DETAILS

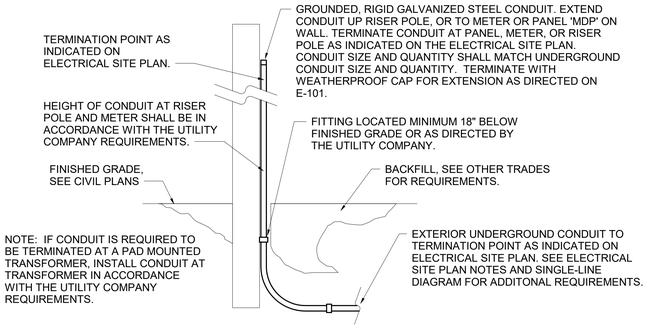


NOTE:
WHERE THE SECONDARY CONDUITS FROM THE UTILITY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

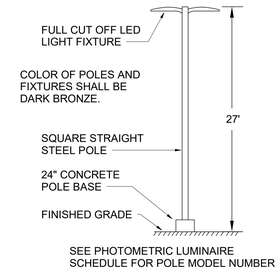
E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL
N.T.S.



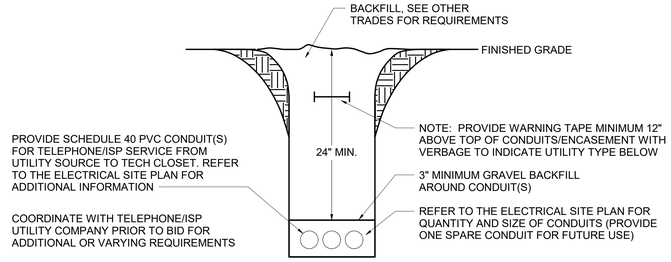
B1 TYPICAL LIGHT POLE BASE DETAIL
N.T.S.



D1 EXTERIOR CONDUIT TURN UP DETAIL
N.T.S.



A1 SITE LIGHTING POLE DETAIL
N.T.S.



C1 TELEPHONE SERVICE CONDUIT DETAIL
N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

DICKERSON ENGINEERING, INC.
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3343 NORTH RIDGE AVENUE
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DEI #: 24009.68

STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

REVISION SCHEDULE

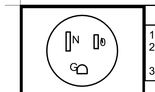
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
SITE DETAILS

SHEET NUMBER
E-502

11/18/2024 8:47:23 AM Autodesk Docs://MO_05248_Hwy 50 & SR 291 (MO) FSU_2024 9_FSR/05248_Hwy 50 & SR 291 (MO) FSU_DEI_ELE.rvt
50-LSR-05248-E-502-SITE DETAILS



NEMA 5-15

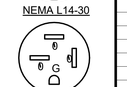
NEMA 5-20

NEMA L5-20

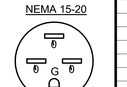
NEMA L14-20

NEMA 14-30

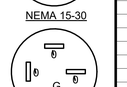
NEMA L14-30



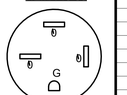
NEMA 15-20



NEMA 15-30



NEMA 15-50



NEMA 15-60

KITCHEN EQUIPMENT SCHEDULE NOTES

1. ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
2. CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
3. PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN / FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P14 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA RECEPTACLE	CONDUIT & CONDUCTORS	COMMENTS AND REMARKS
180	ORDER REGISTER	120	1		0.7	DUPLEX 5-15R IG	REFER TO ELECTRICAL KEYNOTE 95	
182	RECEIPT PRINTER	120	1		1.8	DUPLEX 5-15R IG	REFER TO ELECTRICAL KEYNOTE 95	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	LABEL PRINTER	120	1		1.7	DUPLEX 5-15R IG	REFER TO ELECTRICAL KEYNOTE 95	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	ORDER MONITOR	120	1		0.125	DUPLEX 5-15R IG	REFER TO ELECTRICAL KEYNOTE 95	
184	IPAD	120	1	0.12	1	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
184T	ITIMER	120	1	0.12	1	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
211B	FLY SYSTEM	120	1	0.017		SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
211C	ILLUME ALPHA FLY LIGHT	120	1	0.007		DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	CLOCK STYLE RECEPTACLE REQUIRED
269	FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	LOCATED ABOVE HOOD - BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300a	MILKSHAKE BASE DISPENSER	120	1		2	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30R/15-20R	3/4"C.-3 # 10 & 1 # 10 GROUND/ 3/4"C.-3 # 12 & 1 # 12 GROUND	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
305	TEA BREWER	120	1	1.65	13.8	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
308	SINGLE COFFEE MAKER	120/208	1	4	19.2	L14-30R	3/4"C.-3 # 10 & 1 # 10 GROUND	
310	DOUBLE LEMONADE BUBBLER	120	1		8.5	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
315W	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	120	1		10	DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	TURBO CARBONATOR	120	1		6.2	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
363H	HIGH-TEMP UPRIGHT DISHWASHER	208	3		53.68	DIRECT CONNECTION	1"C.-3 # 6 & 1 # 10 GROUND	
380	ICE MACHINE	120	1	0.6	5	DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		---	3/4"C.-2 # 12 & 1 # 12 GROUND	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.1	14.2	DIRECT CONNECTION	3/4"C.-3 # 12 & 1 # 12 GROUND	
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.6	15.7	DIRECT CONNECTION	3/4"C.-3 # 12 & 1 # 12 GROUND	
380D	ICE MACHINE	120	1	0.368	5	DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
400L	SINGLE UPRIGHT FREEZER (30" WIDE)	120	1	1.1	9.4	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
410	WALK-IN FREEZER	120	1		3.3	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	
410a	WALK-IN FREEZER CONDENSER	208	3		16.3	DIRECT CONNECTION	3/4"C.-3 # 8 & 1 # 10 GROUND	
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.5	DIRECT CONNECTION	3/4"C.-2 # 8 & 1 # 10 GROUND	POWER FED FROM CONDENSER
420	SINGLE UNDERCOUNTER REFRIGERATOR	120	1	0.564	4.7	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
420L	SINGLE UNDERCOUNTER REFRIGERATOR	120	1	0.564	4.7	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
421	DOUBLE UNDERCOUNTER REFRIGERATOR	120	1	0.756	6.3	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
422T	REFRIGERATED EQUIPMENT STAND (48")	120	1	0.8	6.7	L5-15R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431T	DOUBLE REFRIGERATED WORK TABLE	120	1	0.756	6.3	L5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP
432T	DOUBLE REFRIGERATED WORK TABLE	120	1	0.756	6.3	L5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP
439L	40" COLD RAIL	120	1	0.8	7.1	DUPLEX 5-20R (BY OTHERS)	3/4"C.-2 # 12 & 1 # 12 GROUND	COMPRESSOR ON LEFT - SUPPLIED WITH 9 FT CORD AND PLUG
440CT	ICE BATH BREADING TABLE	120	1		1	L5-15R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	SALAD PREP TABLE	120	1		9	L5-15R	3/4"C.-2 # 12 & 1 # 12 GROUND	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.
442WCT	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	120	1		7	L5-15R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK
443GT	SINGLE UPRIGHT REFRIGERATOR (24" WIDE)	120	1		8	L5-15R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK
444S	SINGLE THAWING CABINET (32" WIDE)	120	1		16	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	
444D	DOUBLE THAWING CABINET (52" WIDE)	120	1		16	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	
449	WALK-IN COOLER	120	1		2.4	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	
449a	WALK-IN COOLER CONDENSER	208	3		9.5	DIRECT CONNECTION	3/4"C.-3 # 12 & 1 # 12 GROUND	
449b	WALK-IN COOLER EVAPORATOR	208	1	0.11	1	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	POWER FED FROM CONDENSER
500A	VERTICAL CONTACT TOASTER	120	1	1.8	15	DUPLEX 5-20R (BY OTHERS)	3/4"C.-2 # 12 & 1 # 12 GROUND	
500B	RADIANT TOASTER	208	1	5.5	24	L6-30R (BY OTHERS)	3/4"C.-2 # 10 & 1 # 10 GROUND	PROVIDED WITH TWIST LOCK PLUG
503T	EGG STATION	208	1	2.5	12.5	L6-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	PROVIDED WITH TWIST LOCK PLUG
505VT	VECTOR OVEN	208	3	7.9	22	L15-30R	3/4"C.-3 # 10 & 1 # 10 GROUND	EC TO CHANGE PLUG TO TWIST LOCK
522	SINGLE OPEN FRYER	208	3	22	62	PIN & SLEEVE (BY OTHERS)	1"C.-3 # 3 & 1 # 8 GROUND	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	DOUBLE OPEN FRYER	208	3	22/22	62/62	PIN & SLEEVE (BY OTHERS)	1"C.-3 # 3 & 1 # 8 GROUND	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	PRESSURE FRYER	208	3	13.5	38	15-50R	3/4"C.-3 # 6 & 1 # 10 GROUND	PROVIDED WITH 6 FT CORD AND PLUG
524	DUAL SIDE CLAMSHELL GRILL	208	3	9	24.1/28.2/23.1	15-50R	3/4"C.-3 # 6 & 1 # 10 GROUND	PROVIDED WITH 5' CORD & PLUG
560	FRY HOLDING STATION	120	1	1.9	15.4	DIRECT CONNECTION	3/4"C.-2 # 12 & 1 # 12 GROUND	
562A	HIGH DENSITY HOT HOLDING TOWER	120	1	1.8	16	DUPLEX 5-20R (BY OTHERS)	3/4"C.-2 # 12 & 1 # 12 GROUND	PROVIDED WITH 8 FT CORD AND PLUG
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	CORD EXITS RIGHT - 6' CORD AND PLUG
563S	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	CORD EXITS LEFT - 6' CORD AND PLUG
564B	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	120	1	0.66	5.5	DUPLEX 5-20R (BY OTHERS)	3/4"C.-2 # 12 & 1 # 12 GROUND	
565C	FOOD COOKER/WARMER	120	1	1.2	12.5	SIMPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
580H	VISUAL HOT HOLDING CABINET (5x2)	120	1	1.92	16	DUPLEX 5-20R (BY OTHERS)	3/4"C.-2 # 12 & 1 # 12 GROUND	
592	RETHERMALIZER	208	3	8	22	15-30R	3/4"C.-3 # 10 & 1 # 10 GROUND	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER
600T	MIXER	120	1		8	L5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3HOB405
602	SALAD SPINNER	120	1		8	L5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3HOB405
607	COUNTERTOP LEMON JUICER	120	1			DUPLEX 5-20R GFCI	3/4"C.-2 # 12 & 1 # 12 GROUND	
669	OFFICE SAFE	120	1			---	3/4"C.-2 # 12 & 1 # 12 GROUND	INSTALL SAFE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
672	DIGITAL MENU BOARD	120	1			DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	
675	STATUS BOARD (50")	120	1			DUPLEX 5-20R	3/4"C.-2 # 12 & 1 # 12 GROUND	

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STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER

SIGNATURE

11/18/2024 DATE

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CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
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ISSUED FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
E-601

Distribution Panel: MDP

LOCATION: OUTSIDE **SUPPLY FROM:** UTILITY **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 3R
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K **MAINS TYPE:** MCB **MAINS RATING:** 1200 A **MCB RATING:** 100%

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL-POS)	250 A	3	31.50	32.67					3	250 A	PANEL-B	2	
--	3	--	--	--			31.76	32.52			--	--	--	4	--
--	5	--	--	--					33.33	32.52	--	--	--	6	--
	7	PANEL-C	250 A	3	30.80	10.52					3	150 A	ROOFTOP UNIT AC-1 (25 TONS)	8	
--	9	--	--	--			31.93	10.52			--	--	--	10	--
--	11	--	--	--					32.34	10.52	--	--	--	12	--
ST	13	PANEL-D2	250 A	3	26.90	19.23					3	250 A	PANEL-D1	14	ST
--	15	--	--	--			26.90	20.46			--	--	--	16	--
--	17	--	--	--					26.90	19.47	--	--	--	18	--
	19	ROOFTOP UNIT AC-3 (15 TONS)	110 A	3	9.68	21.14					3	250 A	PANEL-D3	20	ST
--	21	--	--	--			9.68	21.14			--	--	--	22	--
--	23	--	--	--					9.68	21.14	--	--	--	24	--
	25	TVSS	30 A	3	0.00	7.80					3	100 A	ROOFTOP UNIT AC-2 (12.5 TONS)	26	
--	27	--	--	--			0.00	7.80			--	--	--	28	--
--	29	--	--	--					0.00	7.80	--	--	--	30	--
				Total Load:	190.3 kVA		192.7 kVA		193.7 kVA						
				Total Amps:	1585.5 A		1609.0 A		1617.3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	94932 VA	100.00%	94932 VA		
KITCHEN EQUIPMENT	24379 VA	65.00%	15846 VA	Total Conn. Load:	576.3 kVA
KITCHEN REFRIG EQUIPMENT	84590 VA	65.00%	54983 VA		
LIGHTING - EXTERIOR	4597 VA	125.00%	5746 VA		
MISCELLANEOUS	8630 VA	100.00%	8630 VA		
Motor	44959 VA	106.29%	47787 VA		
RECEPTACLES	13291 VA	87.62%	11646 VA		
COOKING (100% DEMAND)	203273 VA	100.00%	203273 VA		
COOKING	91839 VA	65.00%	59695 VA		
LIGHTING - INTERIOR	5836 VA	125.00%	7295 VA		

CALCULATION PER NEC 220.88
(NOT ALL ELECTRIC RESTAURANT LOAD)

LOAD SUMMARY

TOTAL CONNECTED KVA	IF TOTAL LOAD IS 0_200 KVA	IF TOTAL LOAD IS 201_325 KVA	IF TOTAL LOAD IS 326-800 KVA	IF TOTAL LOAD IS OVER 800 KVA	DIVERSIFIED AMPS AT 208 VOLT
576.31 kVA	0	0	375.59	0	1043.30

Branch Panel: POS

LOCATION: OFFICE 24 **SUPPLY FROM:** A **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/120 Single **PHASES:** 1 **WIRES:** 2
2+G+IG
PROVIDE A JUMPER FOR PHASE A & B
A.I.C. SERIES RATING: 10K **MAINS TYPE:** MLO **MAINS RATING:** 100 A **MCB RATING:**

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	B		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
IG	1	COUNTER STATIONS (180,182)	15 A	1	0.389	0.360	1	15 A	NETWORK RACK	2	IG
IG	3	DT POS STATION (180,182)	15 A	1	0.196	0.360	1	15 A	NETWORK RACK	4	IG
IG	5	MLOP POS STATIONS (180,182L)	15 A	1	0.140	0.070	1	20 A	OFFICE RECEPTACLE (COMP)	6	IG
IG	7	MLOP MONITORS (183)	15 A	1	0.196	0.050	1	20 A	ISP MODEM	8	IG
I,IG	9	PASS THRU MONITORS (183,182L)	15 A	1	0.081	0.172	1	15 A	PASS THRU MONITORS (183,182L)	10	I,IG
	11	SPARE	20 A	1	0.000	--	1	--	SPACE	12	
	13	SPARE	20 A	1	0.000	--	1	--	SPACE	14	
	15	SPACE	--	1	--	--	1	--	SPACE	16	
	17	SPACE	--	1	--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--	1	--	SPACE	20	
	21	SPACE	--	1	--	--	1	--	SPACE	22	
	23	SPACE	--	1	--	0.000	1	20 A	BACKFED MAIN BREAKER	24	LO
				Total Load:	2.01 kVA						
				Total Amps:	16.8 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	2013 VA	100.00%	2013 VA		
				Total Conn. Load:	2.0 kVA
				Total Est. Demand:	2.0 kVA
				Total Conn.:	16.8 A
				Total Est. Demand:	16.8 A

GFCI REQUIREMENTS PER NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN / FOOD PREPARATION AREAS IN ACCORDANCE WITH THE NEC.

PANELBOARD NOTES

- (A) CONTROLLED BY RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH. PANELBOARD SUPPLIER TO PROVIDE NOTATION ON CIRCUIT THAT THE CFA-T500 ALSO HAS AN INTEGRAL BREAKER ON THE FAN CIRCUITS FOR THE DISCONNECTION OF POWER AT THE CONTROLLER PER THE NEC. SEE CFA-T500 CONTROL PANEL CONNECTION DIAGRAM ON E-001P.
- (B) CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.
- (C) CONTROLLED BY EXTERIOR LIGHTING RELAY IN CONTROL PANEL CFA-T500.
- (D) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.
- (E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.
- (F) GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.
- (H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE RECEPTACLES FOR ALL 120 VOLT, 15 AND 20 AMP, RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA UNLESS NOTED OTHERWISE. (NOTE THAT THE RECEPTACLES FOR THE OEP BOXES, THE KITCHEN/SERVING AREA, SERVING EQUIPMENT, AND THE CIRCUIT FOR THE FLY SYSTEM SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE ISOLATED GROUNDING TYPE RECEPTACLES, AND CLOCK TYPE RECEPTACLES ARE NOT AVAILABLE AS GROUND FAULT TYPE.) GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.
- (I) GFCI TYPE BREAKER TO BE 5MA TYPE BREAKER.
- (IG) ISOLATED GROUND.
- (J) CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.
- (L) LOCK-ON.
- (LO) LOCK-OFF FOR MAINTENANCE.
- (M) HIGH MAG LOAD.
- (SB) THRU (1) SB5080-021-0 GFCI PROTECTION DEVICE MOUNTED IN SB5000 RECESSED PANEL ENCLOSURE FOR 80 AMP FRYERS; OR (1) SB5060-021-0 GFCI PROTECTION DEVICE MOUNTED IN SB5000 RECESSED PANEL ENCLOSURE FOR 60 AMP DISHWASHER.
- (ST) SHUNT TRIP. INTERLOCK W/ FIRE SUPPRESSION SYSTEM VIA T-500 PANEL. REFER TO WIRING INSTRUCTIONS INCLUDED WITH SHUNT TRIP BREAKER.
- (S) SURGE PROTECTION FOR INDIVIDUAL CIRCUIT. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD.

Branch Panel: A

LOCATION: BACK OF HOUSE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	DRIVE-THRU VIDEO MONITOR (190)	20 A	1	0.456	1.128					1	20 A	SINGLE UPRIGHT FREEZER (400)	2	I
	3	OFFICE GEN OUTLETS (CO2,669)	20 A	1			0.720	1.656			1	20 A	TEA BREWER (305)	4	I
	5	OFF GEN OUTLETS, PRINTER, MUSIC	20 A	1					0.575	1.656	1	20 A	TEA BREWER (305)	6	I
	7	SINGLE U.C. REF (420L)	20 A	1	0.564	0.540					1	20 A	GENERAL OUTLETS	8	
	9	SINGLE U.C. REF (420)	20 A	1			0.564	2.013			1	20 A	PANEL-POS THRU PIB	10	M
	11	SINGLE U.C. REF (420L)	20 A	1					0.564	0.360	1	20 A	GENERAL OUTLETS	12	
	13	SINGLE U.C. REF (420)	20 A	1	0.564	0.540					1	20 A	GENERAL OUTLETS	14	
	15	SINGLE U.C. REF (420)	20 A	1			0.564	0.480			1	20 A	SECURITY SYSTEM	16	
I	17	DOUBLE U.C. REF (421)	20 A	1					0.756	0.690	3	15 A	COOLER CONDENSER/EVAP COIL (449)	18	LO
	19	SPARE	20 A	1	0.000	0.749					--	--	--	20	--
I	21	SINGLE SANDWICH SLIDE (563S)	20 A	1			0.547	0.749			--	--	--	22	--
I	23	DOUBLE SANDWICH SLIDE (563DL)	20 A	1					1.096	0.000	1	20 A	SPARE	24	
	25	CARBONATOR (320)	20 A	1	0.744	1.908					3	35 A	FREEZER CONDENSER/EVAP COIL (410)	26	LO
	27	CARBONATOR (320)	20 A	1			0.744	1.908			--	--	--	28	--
	29	CARBONATOR (320)	20 A	1					0.744	1.752	--	--	--	30	--
	31	CARBONATOR (320)	20 A	1	0.744	0.180					1	20 A	STATUS BOARD (GEN)	32	
	33	CCTV TECH CLOSET	20 A	1			0.360	0.546			1	15 A	WIC/WIF PRESSURE RELIEF VALVE	34	
-	35	CIR A2-HOT HOLDING CABINET (562A)	20 A	1					1.920	1.920	1	20 A	CIR A1-HOT HOLDING CABINET (562A)	36	-
-	37	CIR B2-HOT HOLDING CABINET (564B)	20 A	1	0.660	1.800					1	20 A	CIR B1-VERTICAL TOASTER (500A)	38	-
-	39	CIR C2-GEN OUTLET (122)	20 A	1			0.180	0.180			1	20 A	CIR C1-GENERAL OUTLET (122)	40	-
-	41	CIR D2-HOT HOLDING CABINET (580H)	20 A	1					1.920	1.920	1	20 A	CIR D1-HOT HOLDING CABINET (580H)	42	-
-	43	CIR E2-U.C. REFRIG (420L)	20 A	1	0.564	0.564					1	20 A	CIR E1-U.C. REFRIG (420L)	44	-
-	45	CIR F2-HOT HOLDING CABINET (564B)	20 A	1			0.660	0.180			1	20 A	CIR F1-GEN OUTLET (122)	46	-
-	47	CIR G2-COLD RAIL 439L	20 A	1					0.852	1.800	1	20 A	CIR G1-VERTICAL TOASTER (500A)	48	-
I	49	CIR H2-SPARE/FUTURE (500B)	30 A	2	2.496	2.496					2	30 A	CIR H1-RADIANT TOASTER (500B)	50	I
--	51	--	--	--			2.496	2.496			--	--	--	52	--
	53	TECH CLOSET GEN OUTLET	20 A	1					0.180	0.180	1	20 A	OPTIONAL DARPRO OIL TANK	54	I
	55	TECH CLOSET GEN OUTLET	20 A	1	0.180	0.180					1	20 A	TECH CLOSET GEN OUTLET	56	
	57	TECH CLOS. FAN TF#1	20 A	1			0.095	0.180			1	20 A	TECH CLOSET GEN OUTLET	58	
	59	ICE CREAM MACHINE (300X-A)	30 A	3					2.282	2.282	3	30 A	ICE CREAM MACHINE (300X-A)	60	
--	61	--	--	--	2.282	2.282					--	--	--	62	--
--	63	--	--	--			2.282	2.282			--	--	--	64	--
	65	ICE CREAM MACHINE (300X-B)	20 A	3					1.801	1.801	3	20 A	ICE CREAM MACHINE (300X-B)	66	
--	67	--	--	--	1.801	1.801					--	--	--	68	--
--	69	--	--	--			1.801	1.801			--	--	--	70	--
	71	ROOFTOP UNIT AC-4 (5 TONS)	45 A	3					3.636	2.642	3	30 A	RETHERMALIZER (592)	72	I
--	73	--	--	--	3.636	2.642					--	--	--	74	--
--	75	--	--	--			3.636	2.642			--	--	--	76	--
	77	SPARE	20 A	1					0.000	0.000	1	20 A	SPARE	78	
	79	SPARE	20 A	1	0.000	--					1	--	SPACE	80	
	81	SPARE	20 A	1			0.000	--			1	--	SPACE	82	
	83	SPARE	20 A	1					0.000	--	1	--	SPACE	84	
				Total Load:	31.50 kVA		31.76 kVA		33.33 kVA						
				Total Amps:	262.5 A		265.0 A		278.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10908 VA	100.00%	10908 VA		
KITCHEN EQUIPMENT	3696 VA	65.00%	2402 VA	Total Conn. Load:	96.6 kVA
KITCHEN REFRIG EQUIPMENT	38938 VA	65.00%	25310 VA	Total Est. Demand:	69.3 kVA
MISCELLANEOUS	3999 VA	100.00%	3999 VA	Total Conn.:	268.1 A
Motor	95 VA	125.00%	119 VA	Total Est. Demand:	192.3 A
RECEPTACLES	3491 VA	100.00%	3491 VA		
COOKING	35465 VA	65.00%	23052 VA		

Branch Panel: B

LOCATION: OFFICE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	SECURITY MONITOR (GEN)	20 A	1	0.180	0.960					1	15 A	SINGLE UPRIGHT REF(443GT)	2	I
I	3	HME	20 A	1			0.180	0.900			1	20 A	GENERAL OUTLETS	4	
I	5	GENERAL OUTLET	20 A	1					0.180	0.720	1	20 A	TEAM MEMBER OUTLETS	6	
	7	MILKSHAKE BASE DISPENSER (300a)	20 A	1	0.480	0.180					1	20 A	MANAGER'S STATION (GEN)	8	
	9	ROOF MTD ICE MAKER (380C)	25 A	3			1.705	1.500			1	20 A	FOOD COOKER/WARMER (565C)	10	I
--	11	--	--	--					1.705	1.848	1	20 A	FRY HOLDING STATION (560)	12	
--	13	--	--	--	1.705	1.848					1	20 A	FRY HOLDING STATION (560)	14	
	15	ICE MACHINE (380D)	20 A	1			0.600	0.600			1	20 A	DRIVE-THRU DOOR	16	
	17	DOUBLE LEMONADE BUBBLER (310)	20 A	1					1.020	1.705	3	25 A	ROOF MTD ICE MAKER (380C)	18	
	19	DOUBLE LEMONADE BUBBLER (310)	20 A	1	1.020	1.705					--	--	--	20	--
	21	DOUBLE LEMONADE BUBBLER (310)	20 A	1			1.020	1.705			--	--	--	22	--
	23	DOUBLE LEMONADE BUBBLER (310)	20 A	1					1.020	0.374	2	20 A	UNHEATED AIR DOOR AD-3	24	LO
	25	ROOF RECEPTACLES	20 A	1	1.080	0.374					--	--	--	26	--
	27	DINING AREA OUTLETS	20 A	1			1.260	0.610			1	20 A	ICE MACHINE (380/380a)	28	I
	29	DINING AREA OUTLETS	20 A	1					0.720	0.200	1	20 A	FACP	30	L
	31	DINING AREA OUTLETS	20 A	1	1.080	1.128					1	20 A	SINGLE UPRIGHT FREEZER (400)	32	I
I	33	FLY LIGHTS (211B,211C)	20 A	1			0.175	0.248			1	20 A	REFUSE ENCLOSURE	34	H
	35	BEVERAGE DISPENSER (315W)	20 A	1					1.200	0.360	1	20 A	T500 SHUNT TRIP (269,270)	36	L
	37	BEVERAGE DISPENSER (315W)	20 A	1	1.200	0.360					1	20 A	GEN OUTLETS/DOORBELL	38	
	39	BEVERAGE DISPENSER (315W)	20 A	1			1.200	0.610			1	20 A	ICE MACHINE/SANI SYSTEM (380D/380a)	40	
	41	BEVERAGE DISPENSER (315W)	20 A	1					1.200	0.000	1	20 A	SPARE	42	
i	43	SINGLE COFFEE MAKER (308)	30 A	2	1.997	2.185					1	20 A	OPTIONAL AIR COMPRESSOR	44	
--	45	--	--	--			1.997	0.000			1	20 A	SPARE	46	
I	47	DBL REF WORK TABLE (432T)	20 A	1					0.756	1.705	3	25 A	ROOF MTD ICE MAKER (380C)	48	
I	49	DROP CORD OUTLET (GEN)	20 A	1	0.180	1.705					--	--	--	50	--
I	51	DROP CORD OUTLET (GEN)	20 A	1			0.180	1.705			--	--	--	52	--
I	53	SALAD PREP TABLE (441)	15 A	1					1.080	0.600	1	20 A	TRASH COMPACTOR (TC)	54	
I	55	DROP CORD OUTLET (GEN)	20 A	1	0.180	0.600					1	20 A	TRASH COMPACTOR (TC)	56	
I	57	DROP CORD OUTLET (GEN)	20 A	1			0.180	0.192			1	20 A	LEMON JUICER STAND (607)	58	H
I	59	DROP CORD OUTLET (GEN)	20 A	1					0.180	0.000	1	20 A	SPARE	60	
I	61	DROP CORD OUTLET (GEN)	20 A	1	0.180	0.720					1	20 A	GENERAL OUTLETS	62	
I	63	DROP CORD OUTLET (GEN)	20 A	1			0.180	1.144			2	20 A	BOOSTER PUMP	64	
I	65	DROP CORD OUTLET (GEN)	20 A	1					0.180	1.144	--	--	--	66	--
LO	67	HEATED AIR DOOR AD-1	40 A	3	3.771	3.771					3	40 A	HEATED AIR DOOR AD-2	68	LO
--	69	--	--	--			3.771	3.771			--	--	--	70	--
--	71	--	--	--					3.771	3.771	--	--	--	72	--
	73	FUTURE ICE CREAM MACHINE (F300X-A)	30 A	3	2.282	0.000					1	20 A	SPARE	74	
--	75	--	--	--			2.282	3.000			2	40 A	HEATER (EIH#1)	76	
--	77	--	--	--					2.282	3.000	--	--	--	78	--
	79	FUTURE ICE CREAM MACHINE (F300X-B)	20 A	3	1.801	--					1	--	SPACE	80	
--	81	--	--	--			1.801	--			1	--	SPACE	82	
--	83	--	--	--					1.801	--	1	--	SPACE	84	
				Total Load:	32.67 kVA		32.52 kVA		32.52 kVA						
				Total Amps:	272.3 A		271.0 A		271.0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN REFRIG EQUIPMENT	42892 VA	65.00%	27880 VA		
LIGHTING - EXTERIOR	13 VA	125.00%	16 VA	Total Conn. Load:	97.4 kVA
MISCELLANEOUS	2711 VA	100.00%	2711 VA	Total Est. Demand:	83.4 kVA
Motor	35647 VA	107.93%	38475 VA	Total Conn.:	270.2 A
RECEPTACLES	6680 VA	100.00%	6680 VA	Total Est. Demand:	231.5 A
COOKING	9190 VA	80.00%	7352 VA		
LIGHTING - INTERIOR	219 VA	125.00%	274 VA		

Branch Panel: C

LOCATION: BACK OF HOUSE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	1.093	1.920					1	20 A	DOUBLE THAWING (444D)	2	I
J	3	KITCHEN LTG	20 A	1			0.768	0.180			1	20 A	DROP CORD OUTLET (GEN)	4	I
J	5	RESTROOM LTG & EF#3	20 A	1					1.460	0.180	1	20 A	DROP CORD OUTLET (GEN)	6	I
J	7	DINING AREA LTG	20 A	1	0.208	0.180					1	20 A	DROP CORD OUTLET (GEN)	8	I
J	9	SERVE AREA LTG	20 A	1			0.309	0.120			1	15 A	FUTURE ICE BATH BREADING (F440CT)	10	I
J	11	DINING AREA LTG	20 A	1					0.543	0.840	1	15 A	SINGLE UPRIGHT REF (442WCT)	12	I
J	13	WATER FILTER/RECIRC PUMP	20 A	1	0.662	0.000					1	20 A	SPARE	14	
	15	WATER HEATER	20 A	1			0.960	0.960			1	20 A	WATER HEATER	16	
	17	DIGITAL MENU BOARD (672)	20 A	1					0.585	0.120	1	20 A	ITIMER (184T)	18	I
	19	SPARE	20 A	1	0.000	0.120					1	15 A	ICE BATH BREADING (440CT)	20	I
E	21	PARKING LOT LTG	20 A	2			0.506	0.180			1	20 A	DROP CORD OUTLET (GEN)	22	I
--	23	--	--	--					0.506	0.120	1	20 A	IPAD (184)	24	
	25	SPARE	20 A	1	0.000	0.120					1	15 A	ICE BATH BREADING (440CT)	26	I
	27	SPARE	20 A	1			0.000	0.180			1	20 A	DROP CORD OUTLET (GEN)	28	I
D	29	SECURITY/FLAGPOLE LTG	20 A	1					0.432	0.000	1	20 A	SPARE	30	
C	31	BLDG EXTERIOR LTG	20 A	1	0.510	1.300					2	20 A	EGG STATION (503T)	32	I
I,J,S	33	MLOP CANOPY FANS	20 A	1			0.444	1.300			--	--	--	34	--
LO	35	FRZR/COOLER LTG (410/449)	20 A	1					0.080	1.300	2	20 A	EGG STATION (503T)	36	I
B	37	MAIN ID SIGN	20 A	1	0.680	1.300					--	--	--	38	--
B	39	MAIN ID SIGN	20 A	1			0.500	1.300			2	20 A	FUTURE EGG STATION (F503T)	40	I
B	41	MAIN ID SIGN	20 A	1					0.500	1.300	--	--	--	42	--
B	43	BUILDING SIGNAGE	20 A	1	0.720	0.000					1	20 A	SPARE	44	
B	45	BUILDING SIGNAGE	20 A	1			0.720	0.756			1	20 A	DBL REF WORK TABLE (431T)	46	I
B	47	BUILDING SIGNAGE	20 A	1					0.720	1.656	1	25 A	HOOD EXHAUST FAN (EF#1)	48	A
B	49	BUILDING SIGNAGE	20 A	1	0.720	1.656					1	25 A	HOOD EXHAUST FAN (EF#2)	50	A
LO,S	51	DRIVE THRU ORDERING	20 A	1			0.720	1.584			1	20 A	CANOPY FANS CF#1	52	I,J,S
I,J,S	53	MLOP CANOPY FANS	20 A	1					1.056	1.019	1	20 A	HOOD CJ FANS	54	A
	55	OMD CANOPY OUTLET	20 A	1	0.180	1.920					1	20 A	DOUBLE THAWING (444D)	56	
	57	OMD CANOPY OUTLET	20 A	1			0.180	1.920			1	20 A	DOUBLE THAWING (444D)	58	
	59	FUTURE DOUBLE THAWING (F444D)	20 A	1					1.920	0.000	1	20 A	SPARE	60	
I	61	VECTOR OVEN (505VT)	30 A	3	2.642	2.642					3	30 A	VECTOR OVEN (505VT)	62	I
--	63	--	--	--			2.642	2.642			--	--	--	64	--
--	65	--	--	--					2.642	2.642	--	--	--	66	--
I	67	VECTOR OVEN (505VT)	30 A	3	2.642	2.642					3	30 A	FUTURE VECTOR OVEN (F505VT)	68	I
--	69	--	--	--			2.642	2.642			--	--	--	70	--
--	71	--	--	--					2.642	2.642	--	--	--	72	--
I	73	DROP CORD OUTLET (GEN)	20 A	1	0.360	6.446					3	60 A	DISHWASHER (363H)	74	LO,SB
I	75	FLOOR MIXER (600T)	20 A	1			0.960	6.446			--	--	--	76	--
I	77	REF EQUIP STAND (422T)	20 A	1					0.804	6.446	--	--	--	78	--
I	79	DROP CORD OUTLET (GEN)	20 A	1	0.180	0.000					1	20 A	SPARE	80	
I	81	OPTIONAL SALAD SPINNER (602)	20 A	1			0.384	0.000			1	20 A	SPARE	82	
I	83	DROP CORD OUTLET (GEN)	20 A	1					0.180	0.000	1	20 A	SPARE	84	
				Total Load:	30.80 kVA		31.93 kVA		32.34 kVA						
				Total Amps:	256.7 A		267.5 A		270.9 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	20683 VA	80.00%	16546 VA		
KITCHEN REFRIG EQUIPMENT	2760 VA	65.00%	1794 VA	Total Conn. Load:	95.1 kVA
LIGHTING - EXTERIOR	4584 VA	125.00%	5730 VA	Total Est. Demand:	76.4 kVA
MISCELLANEOUS	1920 VA	100.00%	1920 VA	Total Conn.:	263.9 A
Motor	9217 VA	104.49%	9631 VA	Total Est. Demand:	212.1 A
RECEPTACLES	3120 VA	100.00%	3120 VA		
COOKING	47184 VA	65.00%	30669 VA		
LIGHTING - INTERIOR	5618 VA	125.00%	7022 VA		

Branch Panel: D1

LOCATION: BACK OF HOUSE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.563	2.772					3	50 A	CHARGRILL COOKER (524)	2	I
--	3	--	--	--			4.563	3.384			--	--	--	4	--
--	5	--	--	--					4.563	2.892	--	--	--	6	--
I	7	PRESSURE FRYER (523)	50 A	3	4.563	2.772					3	50 A	CHARGRILL COOKER (524)	8	I
--	9	--	--	--			4.563	3.384			--	--	--	10	--
--	11	--	--	--					4.563	2.892	--	--	--	12	--
I	13	PRESSURE FRYER (523)	50 A	3	4.563	--					1	--	SPACE	14	
--	15	--	--	--			4.563	--			1	--	SPACE	16	
--	17	--	--	--					4.563	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
				Total Load:	19.23 kVA		20.46 kVA		19.47 kVA						
				Total Amps:	160.3 A		170.8 A		162.6 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	59166 VA	100.00%	59166 VA		
				Total Conn. Load:	59.2 kVA
				Total Est. Demand:	59.2 kVA
				Total Conn.:	164.2 A
				Total Est. Demand:	164.2 A

Branch Panel: D2

LOCATION: BACK OF HOUSE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	SINGLE OPEN FRYER (522)	80 A	3	7.446	7.446					3	80 A	FUTURE SINGLE OPEN FRYER (F522)	2	SB
--	3	--	--	--			7.446	7.446			--	--	--	4	--
--	5	--	--	--					7.446	7.446	--	--	--	6	--
SB	7	DOUBLE OPEN FRYER (522A)	80 A	3	7.446	4.563					3	50 A	FUTURE PRESSURE FRYER (F523)	8	I
--	9	--	--	--			7.446	4.563			--	--	--	10	--
--	11	--	--	--					7.446	4.563	--	--	--	12	--
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
				Total Load:	26.90 kVA		26.90 kVA		26.90 kVA						
				Total Amps:	224.2 A		224.2 A		224.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	80700 VA	100.00%	80700 VA		
				Total Conn. Load:	80.7 kVA
				Total Est. Demand:	80.7 kVA
				Total Conn.:	224.0 A
				Total Est. Demand:	224.0 A

Branch Panel: D3

LOCATION: BACK OF HOUSE **SUPPLY FROM:** MDP **MOUNTING:** FLUSH **ENCLOSURE:** NEMA 1
VOLTS: 120/208 Wye **PHASES:** 3 **WIRES:** 4
A.I.C. SERIES RATING: 65K/10K **MAINS TYPE:** MLO **MAINS RATING:** 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.563	4.563					3	50 A	PRESSURE FRYER (523)	2	I
--	3	--	--	--			4.563	4.563			--	--	--	4	--
--	5	--	--	--					4.563	4.563	--	--	--	6	--
I	7	FUTURE PRESSURE FRYER (F523)	50 A	3	4.563	7.446					3	80 A	DOUBLE OPEN FRYER (522A)	8	SB
--	9	--	--	--			4.563	7.446			--	--	--	10	--
--	11	--	--	--					4.563	7.446	--	--	--	12	--
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
				Total Load:	21.14 kVA		21.14 kVA		21.14 kVA						
				Total Amps:	176.1 A		176.1 A		176.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	63407 VA	100.00%	63407 VA		
				Total Conn. Load:	63.4 kVA
				Total Est. Demand:	63.4 kVA
				Total Conn.:	176.0 A
				Total Est. Demand:	176.0 A

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STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

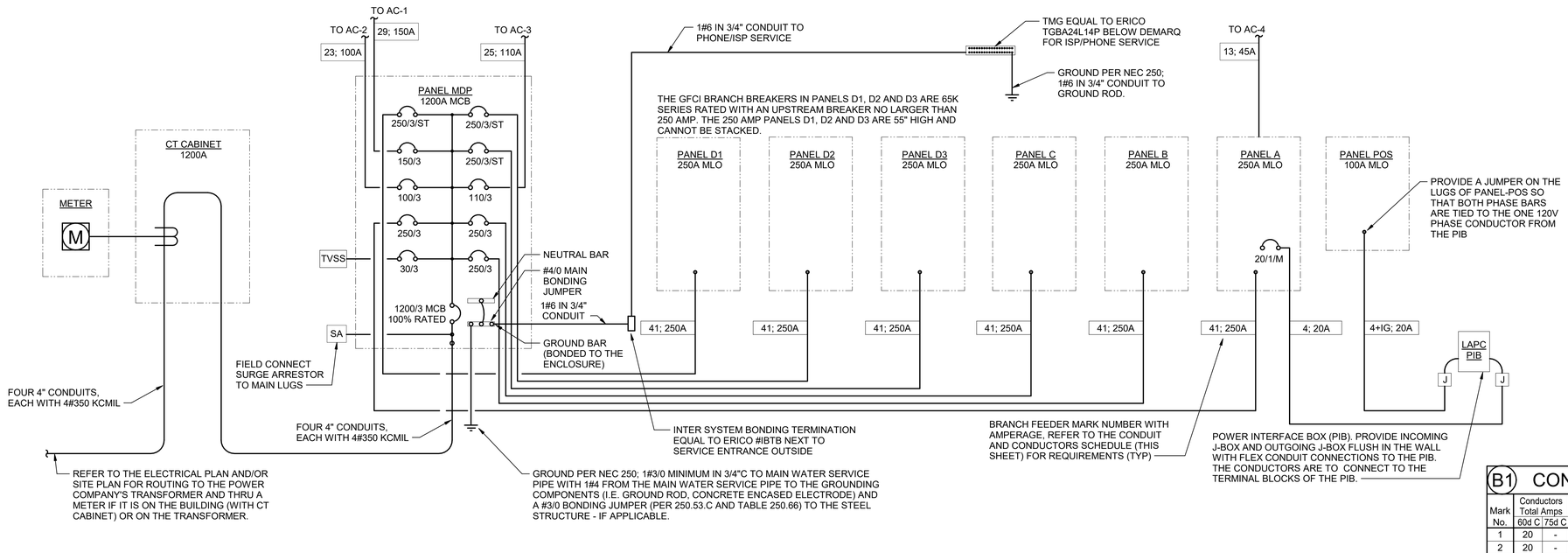
BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
PANEL SCHEDULES

SHEET NUMBER
E-602



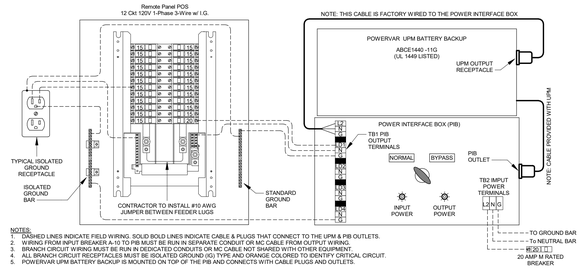
C2 SINGLE LINE DIAGRAM
NO SCALE

SINGLE-LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

1. PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM AN APPROVED NATIONAL ACCOUNTS VENDOR (SEE ELECTRICAL SPECIFICATIONS, SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D1, D2, D3, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.



NOTES:
1. DASHED LINES INDICATE FIELD WIRING. SOLID BOLD LINES INDICATE CABLE & PLUGS THAT CONNECT TO THE UPM & PIB OUTLETS.
2. WIRING FROM INPUT BREAKER A-10 TO PIB MUST BE RUN IN SEPARATE CONDUIT OR MC CABLE FROM OUTPUT WIRING.
3. BRANCH CIRCUIT WIRING MUST BE RUN IN DEDICATED CONDUITS OR MC CABLE NOT SHARED WITH OTHER EQUIPMENT.
4. ALL BRANCH CIRCUIT RECEPTACLES MUST BE ISOLATED GROUND (IG) TYPE AND ORANGE COLORED TO IDENTIFY CRITICAL CIRCUIT.
5. POWERVAR UPM BATTERY BACKUP IS MOUNTED ON TOP OF THE PIB AND CONNECTS WITH CABLE PLUGS AND OUTLETS.

A1 POS AND LAPC/PIB WIRING DIAGRAM
NO SCALE

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark	Conductors Total Amps		Conductors					Raceway Size (Nominal Inches)						
			Phase & Neutral			Min Eq Grd		No.	Phase, Neutral & Equip Grd				With IG	
No.	60d C	75d C	Qty	Size	Type	Qty/Set	Size	Sets	EMT	IMC	RIGID	PVC	EMT	IMC	PVC
1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
16	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
18	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
19	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
21	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
22	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
26	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
27	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
28	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
30	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
31	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
32	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
34	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
38	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
40	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
42A	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3..00	3.00
43A	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
43B	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
46A	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.

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GREGORY L. DOFFIN
NUMBER PE-2015022305
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PROFESSIONAL ENGINEER
SIGNATURE
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NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
SINGLE LINE DIAGRAM

SHEET NUMBER
E-701

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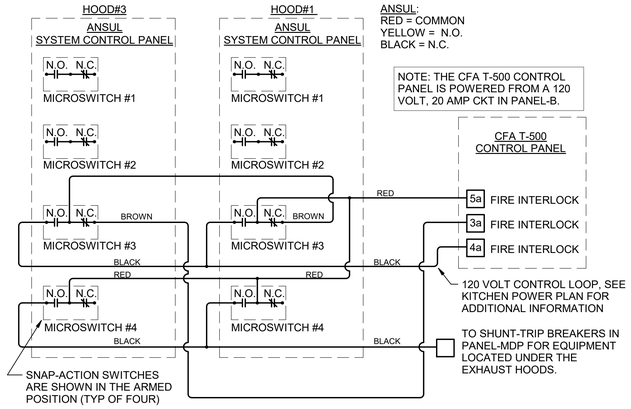
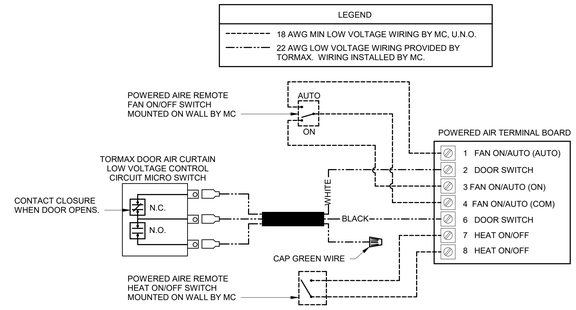
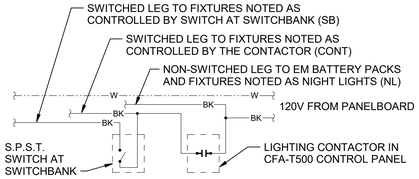


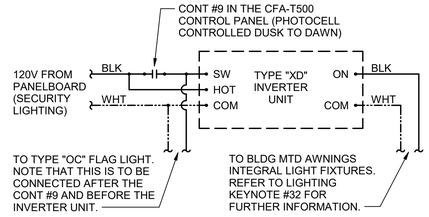
D4 FIRE SUPPRESSION SYSTEM PANEL WIRING DIAGRAM
NO SCALE



E3 AIR CURTAIN WIRING DIAGRAM
NO SCALE



D3 LIGHTING CONTROL DIAGRAM
NO SCALE



D2 INVERTER XD WIRING DIAGRAM
NO SCALE

CIR C-1	CONTACTOR-1 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	KITCHEN LTG
CIR C-3		KITCHEN LTG
CIR C-5		RESTROOM LTG / EF-3
CIR C-11		DINING LTG
CIR C-7	CONTACTOR-2 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	DINING LTG
CIR C-9		SERV AREA LTG
CIR C-13		WATER RECIRC PUMP
SPARE		SPARE
CIR C-43	CONTACTOR-3 30A 4-POLE 120 VOLT COIL (P'CELL ON AND SWITCH OFF)	BLDG. SIGNAGE
CIR C-45		BLDG. SIGNAGE
CIR C-47		BLDG. SIGNAGE
CIR C-49		BLDG. SIGNAGE
SPARE	CONTACTOR-4 30A 4-POLE 120 VOLT COIL (P'CELL ON AND SWITCH OFF)	SPARE
CIR C-37		MAIN ID SIGN
CIR C-39		MAIN ID SIGN
CIR C-41		MAIN ID SIGN
SPARE	CONTACTOR-5 30A 4-POLE 120 VOLT COIL (P'CELL ON AND SWITCH OFF)	SPARE
CIR C-31		BLDG LIGHTING
SPARE		SPARE
SPARE		SPARE
SPARE	CONTACTOR-6 30A 4-POLE 120 VOLT COIL (P'CELL ON AND SWITCH OFF)	SPARE
SPARE		SPARE
SPARE		SPARE
SPARE		SPARE
CIR C-21	CONTACTOR-7 30A 4-POLE 120 VOLT COIL (P'CELL ON AND SWITCH OFF)	PARKING LOT LTG
CIR C-23		PARKING LOT LTG
SPARE		SPARE
SPARE		SPARE
SPARE	CONTACTOR-8 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	SPARE
SPARE		SPARE
SPARE		SPARE
SPARE		SPARE
CIR C-29	CONTACTOR-9 30A 4-POLE 120 VOLT COIL (PHOTOCELL ON AND OFF)	SECURITY/FLAG LTG
SPARE		SPARE
SPARE		SPARE
SPARE		SPARE
CIR C-48	CONTACTOR-10 30A 4-POLE 120 VOLT COIL (SWITCH ON & OFF, FS ON)	EXHAUST FAN EF-1
CIR C-50		EXHAUST FAN EF-2
SPARE		SPARE
SPARE		SPARE
CIR C-54	CONTACTOR-11 30A 4-POLE 120 VOLT COIL (SWITCH ON & OFF, FS ON)	HOOD CJ FAN/LIGHTS
SPARE		SPARE
SPARE		SPARE
SPARE		SPARE

NOTES:
1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
2) ONLY THE 'HOT' CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
4) VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE FS SYSTEM IS INITIATED.

SEQUENCE OF OPERATION

STORE SWITCH IN "STORE OPEN" POSITION

A. INFRARED HEATERS ARE ENABLED.
B. COOLING FANS ARE ENABLED.
C. LIGHTS ARE ENABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.

STORE SWITCH IN "STORE CLOSED" POSITION

A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE DISABLED.

NOTES

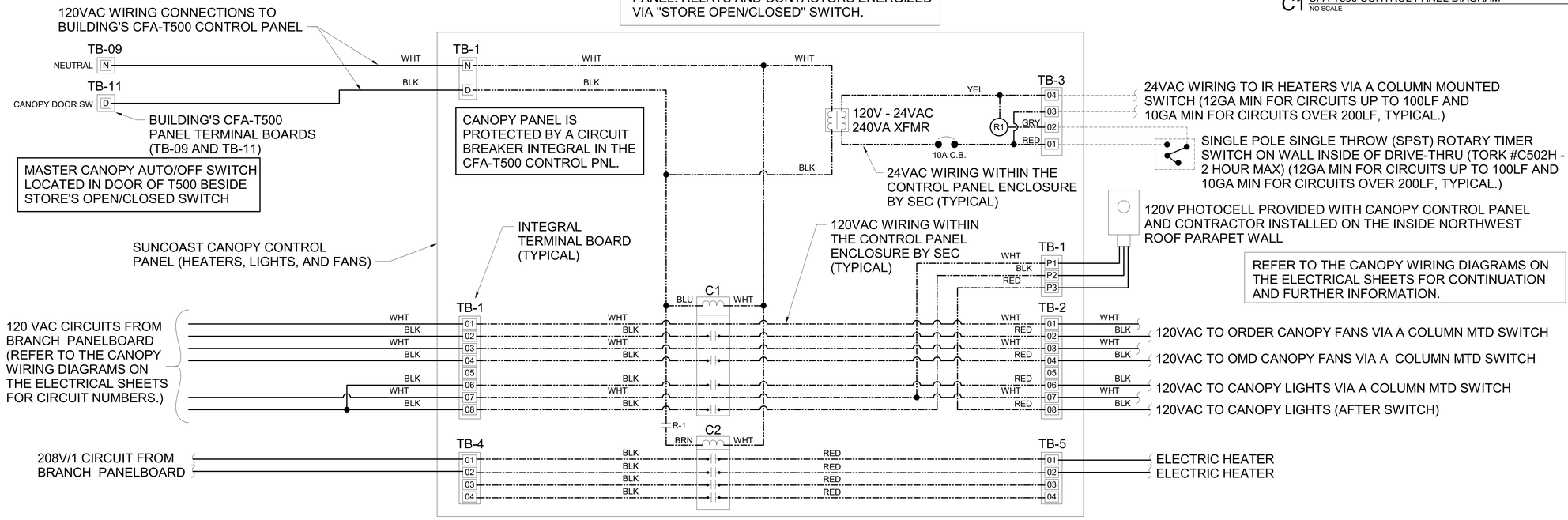
1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL PANEL.
3. THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.

LEGEND

SEC SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
LOW VOLTAGE BY CONTRACTOR
LOW VOLTAGE WIRING BY SUNCOAST
120 VOLT BY CONTRACTOR
120 VOLT BY SUNCOAST

SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED "STORE UNOCCUPIED" CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC IN CONTROL PANEL. RELAYS AND CONTACTORS ENERGIZED VIA "STORE OPEN/CLOSED" SWITCH.

C1 CFA-T500 CONTROL PANEL DIAGRAM
NO SCALE



A1 SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM
NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

DICKERSON ENGINEERING, INC.
Professional Electrical Engineers
3343 NORTH RIDGE AVENUE
ARLINGTON HEIGHTS, IL 60004
TEL (847) 966-0290
WWW.DEI-PE.COM
DEI #: 24009.68

STATE OF MISSOURI
GREGORY L. DOFFIN
NUMBER PE-2015022305
PROFESSIONAL ENGINEER
SIGNATURE
11/18/2024 DATE
12/31/2025 EXPIRATION DATE

CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
ISSUED FOR PERMIT

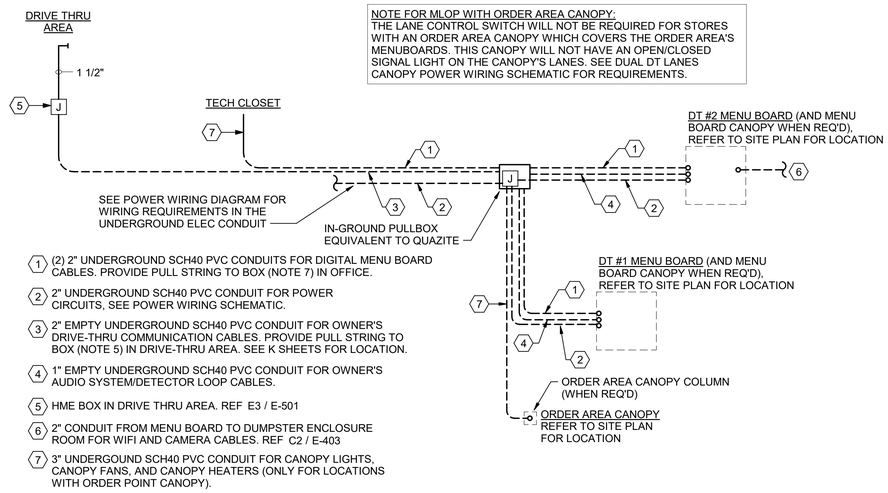
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

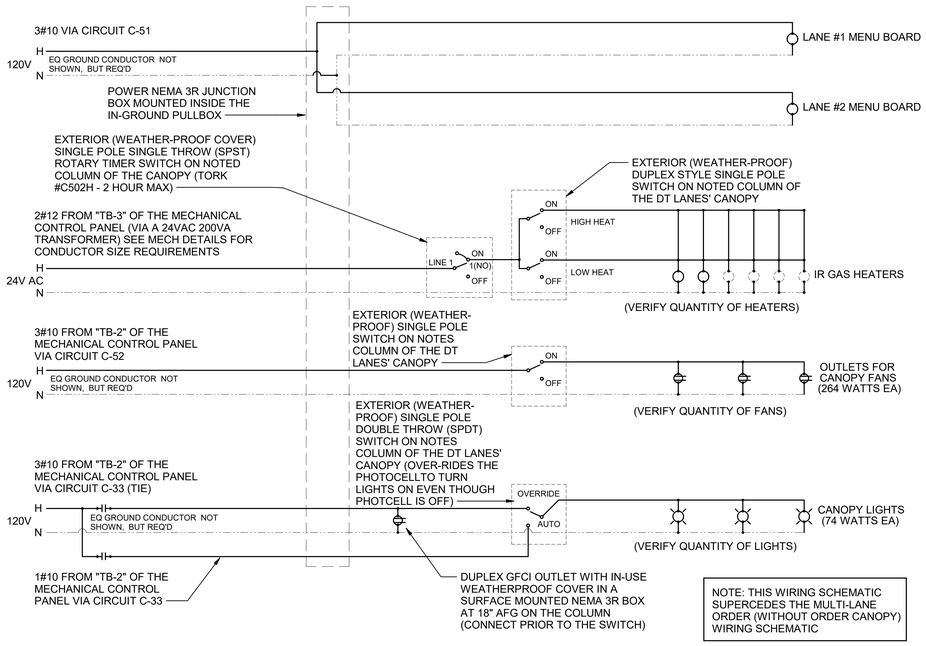
CONSULTANT PROJECT # 23-3906.00
DATE 11/18/2024
DRAWN BY NR

SHEET
WIRING DIAGRAMS

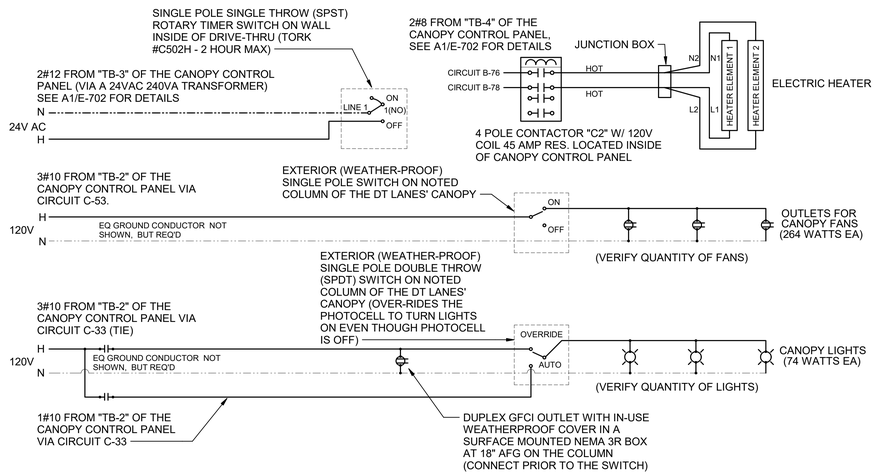
SHEET NUMBER
E-702



C1 MULTI-LANE ORDER POINT (MLOP) DRIVE-THRU CONDUIT REQUIREMENTS
N.T.S.



B3 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC
N.T.S.



C3 OUTSIDE MEAL DELIVERY (OMD) CANOPY POWER WIRING SCHEMATIC
N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

DICKERSON ENGINEERING, INC.
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3343 NORTH RIDGE AVENUE
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STATE OF MISSOURI
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CHICK-FIL-A
OLDHAM VILLAGE FSU
SW CORNER US HWY 50 & MO STATE ROUTE 291
LEE'S SUMMIT, MO 64081

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DRAWN BY NR

SHEET
WIRING DIAGRAMS

SHEET NUMBER
E-703

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND TO MAKE ALL EXTERNAL, INTERNAL INTERCONNECTIONS, AND FINAL CONNECTIONS TO EQUIPMENT AND PROVIDE ALL PIPING, FITTINGS, PARTS, ETC. NECESSARY TO MAKE EQUIPMENT FUNCTIONAL UNLESS SPECIFICALLY STATED OTHERWISE.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3. ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
4. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN IN ELEVATIONS ARE FOR FOODSERVICE EQUIPMENT ITEMS ONLY. (SEE PLUMBING SHEETS FOR ADDITIONAL REQUIREMENTS AND INFORMATION).
5. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE).
6. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR UNLESS LOCAL CODES DICTATE OTHERWISE.
7. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS.
8. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT, OR OTHER EQUIPMENT CAPABLE OF PRODUCING CONDENSATION.
9. PLUMBING CONTRACTOR IS NOT TO HARD-PIPE THE CENTERLINE TABLE.
10. ALL COMPARTMENT SINKS SHOULD HAVE INDIRECT WASTE UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
11. IF INLET PRESSURE ON HOT WATER LINES IS IN EXCESS OF 25 PSI, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATING VALVE.
12. PLUMBING CONTRACTOR TO PROVIDE PIPES AND FITTINGS FOR ALL EXPOSED CONNECTING RUNS AS REQUIRED.
13. PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. PLUMBING CONTRACTOR TO VERIFY PLUMBING RELATED EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ON SCHEDULE.
15. PLUMBING CONTRACTOR TO USE EXISTING SERVICES TO CONNECT NEW AND REUSED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
16. PLUMBING CONTRACTOR TO INSTALL KITCHEN EQUIPMENT CONTRACTOR SUPPLIED ITEMS SUCH AS FAUCETS & LOOSE COMPONENTS RELATED TO THE PLUMBING FIXTURES.
17. PLUMBING CONTRACTOR TO INSTALL, MOUNT, AND PLUMB ALL KITCHEN HAND SINKS AND COMPARTMENT SINKS.
18. PLUMBING CONTRACTOR TO PROVIDE STANDOFFS FOR SINKS IF REQUIRED.
19. PLUMBING ENGINEER TO DETERMINE THE NEED FOR A DOMESTIC WATER BOOSTER PUMP TO BE LOCATED PER THE KITCHEN EQUIPMENT PLANS AS REQUIRED.
20. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS.
21. PLUMBING CONTRACTOR TO PROVIDE CONDENSER WATER PIPING CONNECTIONS TO WALK-IN COOLER / FREEZER AND ICE MACHINES.
22. WATER FILTRATION SYSTEM TO BE INSTALLED BY CHICK-FIL-A SPECIFIED VENDOR.

BUILDING WORK NOTES

1. ALL DIMENSIONS INDICATED ARE FROM FINISHED SURFACES UNLESS SPECIFICALLY STATED OTHERWISE.
2. GENERAL CONTRACTOR TO VERIFY WITH KITCHEN EQUIPMENT CONTRACTOR DELIVERY AND ACCESSIBILITY OF FOODSERVICE EQUIPMENT AND FIXTURES TO THE BUILDING.
3. GENERAL CONTRACTOR TO LAY OUT, PROVIDE, AND INSTALL ALL BACKING FOR WALL MOUNTED SHELVING AND OTHER WALL MOUNTED EQUIPMENT AS SPECIFIED IN PLANS.
4. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS AND VANITIES.
5. ANY ATTACHMENT TO BUILDING STRUCTURE FOR LOAD BEARING WEIGHT TO BE PROVIDED BY OTHERS.
6. GENERAL CONTRACTOR TO PROVIDE UNISTRUT FOR SUSPENDED SHELVING AND SUSPENDED STAINLESS STEEL SHROUDS.
7. CONDENSING UNIT RACK TO BE PROVIDED AND INSTALLED BY OTHERS IF REQUIRED.
8. GENERAL CONTRACTOR TO HOIST ALL KITCHEN RELATED EQUIPMENT TO THE ROOF / MEZZANINE AS NEEDED.

INSTALLATION NOTES

1. GENERAL CONTRACTOR MUST INSTALL BLOCKING AS SPECIFIED ON KITCHEN AND ARCHITECTURAL SHEETS TO ENSURE PROPER BLOCKING IS IN PLACE FOR EQUIPMENT INSTALLATION.
2. SITE READINESS MUST BE COMPLETE IN PREPARATION FOR INSTALLATION BASED ON THE FOLLOWING CRITERIA:
   - A. COMPLETED PARKING LOT AND SIDEWALKS SERVING THE SITE
   - B. CLEAR ACCESS FROM THE STREET OR PARKING LOT TO EACH AREA WHERE EQUIPMENT WILL BE INSTALLED
   - C. A FULLY ENCLOSED BUILDING ENVELOPE, CREATING A WATER-TIGHT ENVIRONMENT
   - D. BROOM CLEAN CONDITIONS WITH DIRT, DUST, TRASH, AND CONSTRUCTION MATERIALS MITIGATED
   - E. NO TRADES WORKING OVERHEAD ABOVE THE EQUIPMENT
   - F. TRADE WORK SHOULD BE COMPLETE IN THE VICINITY OF THE EQUIPMENT TO MINIMIZE REPEATED SHIFTING OR MOVING OF KITCHEN EQUIPMENT
   - G. PROHIBIT USE OF THE KITCHEN EQUIPMENT BY ANY TRADE AS A WORK SURFACE, STANDING SURFACE, OR PLACE TO STORE TOOLS AND MATERIALS
   - H. PROVIDE AT A MINIMUM TEMPORARY SPACE LIGHTING SUFFICIENT TO ALLOW SAFE WORKING CONDITIONS FOR EQUIPMENT ASSEMBLY AND INSTALLATION
   - I. IF APPLICABLE, ALL SERVICE COUNTER CURBS AND FLOOR PENETRATIONS NEED TO BE COMPLETE
   - J. ALL FLOOR FINISHES AND BASE MATERIAL, INCLUDING GROUT IF APPLICABLE, MUST BE COMPLETE
   - K. ALL WALL FINISHES IN THE VICINITY OF THE EQUIPMENT MUST BE COMPLETE
   - L. ALL CEILING FINISHES, CEILING GRID, LIGHT FIXTURES, AND CEILING TILE NEED TO BE COMPLETE IN THE AREAS ABOVE THE EQUIPMENT. NOTE: IF BACK OF HOUSE SHELVING THAT IS SUSPENDED FROM OVERHEAD STRUCTURE IS USED, ONLY THE GRID IS REQUIRED – LEAVE THE CEILING TILES OUT UNTIL THE SHELVING INSTALLATION IS COMPLETE
   - M. ALL CEILING MOUNTED LIGHTING SHOULD BE IN PLACE AND COMPLETE
   - N. ALL OVERHEAD UTILITIES ABOVE THE EQUIPMENT INCLUDING FIRE SPRINKLERS, CONDUIT RUNS, SANITARY PIPING, DOMESTIC WATER LINES, CONDENSER WATER SUPPLY LINES, CONDENSER WATER RETURN LINES, HVAC DUCT, AND SIMILAR INFRASTRUCTURE SHOULD BE FINISHED
   - O. ALL HOOD SYSTEMS MUST BE IN PLACE
   - P. ALL EQUIPMENT UTILITY ROUGH-INS MUST BE COMPLETE AND READY FOR CONNECTION

KITCHEN SHEET INDEX

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, PULL BOXES, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT AND RELATED ITEMS SHOWN ON FOODSERVICE EQUIPMENT PLAN ONLY (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS). ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS FOR ADDITIONAL CONVENIENCE OUTLETS AND ITEMS NOT IN CONTRACT.
3. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE)
4. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT ALL LINES OR LOW VOLTAGE CONTROL WIRING FROM WALK-IN FREEZER EVAPORATOR AS DETAILED ON FOODSERVICE REFRIGERATION SYSTEM DETAILS DRAWINGS.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED.
6. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY MANUFACTURER AND SHORTEN ANY CORDS AS REQUIRED.
7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24" FOR 4" Ø CONDUIT OR A MINIMUM BENDING RADIUS OF 36" FOR 6" Ø CONDUIT OR LARGER. LONG SWEEP CONDUIT RECOMMENDED. (NO FACTORY "L'S" PERMITTED).
8. ELECTRICAL CONTRACTOR TO CONNECT ALL INDIVIDUAL COMPRESSORS AND/OR CONDENSERS. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE DISCONNECT SWITCHES AND MAGNETIC STARTERS AS REQUESTED (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCH).
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL. WALK-IN COOLERS / FREEZERS CANNOT BE PROVIDED PRE-WIRED.
10. ELECTRICAL CONTRACTOR TO WIRE LOOSE WALK-IN LIGHT FIXTURES AS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR. WALK-IN CONTRACTOR TO SUPPLY LAMPS FOR ALL WALK-IN COOLERS / FREEZERS.
11. ELECTRICAL CONTRACTOR SHALL USE CONDUIT SEALS ON ALL PENETRATIONS THRU WALK-IN PANELS.
12. ELECTRICAL CONTRACTOR TO SEAL AROUND CONDUIT PENETRATIONS IN WALK-IN COOLERS / FREEZER TO AVOID CONDENSATION INSIDE LIGHT FIXTURES.
13. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
15. ELECTRICAL CONTRACTOR TO WIRE THE CENTERLINE TABLE WITH FIVE WIRES. (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)
16. ELECTRICAL CONTRACTOR TO WIRE POS REGISTERS ON SEPARATE CIRCUITS (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)

GENERAL NOTES

1. ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION OR OVERALL FABRICATION WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE KITCHEN EQUIPMENT CONTRACTOR IMMEDIATELY BY THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR TO PROVIDE ALL PENETRATIONS BETWEEN FLOORS AND / OR CEILINGS FOR GAS, WATER, ELECTRICAL, OR REFRIGERATION CONDUIT SERVICES AS REQUIRED ON PLANS.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL ROOF JACKS OR PITCH POCKET FOR REFRIGERATION LINE PENETRATIONS THROUGH ROOF. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR).
4. GENERAL CONTRACTOR TO PROVIDE DUCT WRAP OR SHAFT(S) AND OPENING(S) THROUGH WALLS, CEILING, AND ROOF FOR EXHAUST AND MAKE-UP AIR DUCTS WITH CURB ON ROOF FLASHED AND SEALED TO MEET ALL CODES.
5. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WALL BACKING IN WALLS FOR MOUNTING OF WALL SHELVES, POT RACKS, HAND SINKS, VANITIES, ETC. AS SHOWN ON BUILDING WORKS PLANS.
6. ALL HORIZONTAL DIMENSIONS ARE FROM GRID LINE, FINISHED FACE OF WALL TO FINISHED FACE OF WALL, OR CENTERLINE OF COLUMN OR CASED OPENING.
7. ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED TOP OF WALL OR WALL OPENING.
8. ALL WALLS IN CONTACT WITH OR WITHIN 18" OF COOKING EQUIPMENT SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AS PER LOCAL CODES.
9. WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.
10. IT SHALL BECOME THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND / OR GENERAL CONTRACTOR TO ENSURE THAT THE KITCHEN EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS PRIOR TO OR DURING CONSTRUCTION, WHEREAS ADDENDUMS AND / OR CHANGES AFFECT ANY AREAS PERTINENT TO THE FOOD AND BEVERAGE PORTION.
11. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PENETRATION (HOLES / CHASES) FOR LINE RUNS THROUGH (WALLS / FLOORS / CEILINGS / ROOF) AS REQUIRED FOR ALL FOODSERVICE EQUIPMENT AND TO SEAL ALL PENETRATIONS WITH PROPER SEALANT.
12. FIRE EXTINGUISHERS FURNISHED AND INSTALLED BY HALTON. GENERAL CONTRACTOR TO COORDINATE WITH FIRE MARSHAL FOR HALTON'S INSTALLATION AND GC WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL FIRE EXTINGUISHER AFTER HALTON'S INSTALLATION.
13. GENERAL CONTRACTOR TO PROVIDE BUILDING ACCESS FOR OVERSIZED KITCHEN EQUIPMENT TO BE COORDINATED WITH KITCHEN EQUIPMENT CONTRACTOR.
14. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT STARTUP AFTER KITCHEN EQUIPMENT CONTRACTOR INSTALLS EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE STARTUP CONTACTS TO GENERAL CONTRACTOR AFTER INSTALLATION.
15. ALL RECESSED MOP SINKS TO BE CONSTRUCTED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAINLESS STEEL PANELS UP TO 42" AFF AND GRATE FOR RECESSED MOP SINK. BASIN MOP SINK AND STAINLESS STEEL PANELS TO BE PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE NOTED.

REFRIGERATION NOTES

1. REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES, WHICH EXTEND DOWN THROUGH WALL(S) BEFORE WALL(S) ARE CLOSED UP WHEN CONDUIT IS NOT PROVIDED.
2. REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION SUCTION LINES.
3. ALL PENETRATIONS THROUGH TO ROOF TO BE DONE BY GENERAL CONTRACTOR.
4. REFRIGERATION CONTRACTOR TO SEAL BOTH ENDS OF CONDUIT WITH FOMOFIL AFTER ALL LINES HAVE BEEN RUN.
5. GENERAL CONTRACTOR TO ALLOW 3'-0" OF CLEAR SPACE AROUND ROOF PAD FOR MAINTENANCE.
6. GENERAL CONTRACTOR TO VERIFY REFRIGERATION LINE RUN THROUGH TO ROOF OR MULTI-STORY BUILDING PRIOR TO CONSTRUCTION WITH REFRIGERATION CONTRACTOR FOR ACCESSIBILITY.
7. GENERAL CONTRACTOR TO VERIFY ACCESS OF CRANE WITH REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION (IF REQUIRED).
8. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL HEAT TAPE ON INDIRECT DRAIN LINES FOR WALK-IN FREEZERS & FREEZER BASES.
9. GENERAL CONTRACTOR TO PROVIDE CURBS FOR CONDENSING UNITS ON ROOF UNLESS RACKS ARE SPECIFIED. GENERAL CONTRACTOR TO USE PROPER SEALANT AND FLASHING ON CURBS.
10. GENERAL CONTRACTOR TO PLACE ICE MACHINE AND WALK-IN FREEZER / COOLER CONDENSING UNITS PER MECHANICAL SHEETS.
11. ICE MACHINE VENDOR AND WALK-IN CONTRACTOR RESPONSIBLE FOR PROVIDING, RUNNING, AND CONNECTING REFRIGERANT PIPING.

ABBREVIATIONS

ADJ	ADJUSTABLE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LH	LEFT HINGE
ALT	ALTERNATE	MAX	MAXIMUM
AMP	AMPERAGE	MC	MECHANICAL CONTRACTOR
AOR	ARCHITECT OF RECORD	MECH	MECHANICAL
APPROX	APPROXIMATE	MEZZ	MEZZANINE
AVG	AVERAGE	MIN	MINIMUM
BOH	BACK OF HOUSE	ML	MIDLINE
BLDG	BUILDING	MTD	MOUNTED
BTU	BRITISH THERMAL UNIT	MWK	MILLWORK VENDOR
CAD	COMPUTER AIDED DESIGN	N/A	NOT APPLICABLE
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CFA	CHICK-FIL-A	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CO	CASED OPENING	OWN	OWNER
CU FT	CUBIC FEET	P	PLUG
CW	COLD WATER	PC	PLUMBING CONTRACTOR
D	DUCT SMOKE ANNUNCIATOR	PH	PHASE
DBL	DOUBLE	PLYWD	PLYWOOD
DIA	DIAMETER (Ø)	PRI	PLUMBING ROUGH-IN
DIM	DIMENSION	QTY	QUANTITY
DL	DUAL LINE	R	RECEPTACLE
DW	DIRECT WASTE	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RE:	REFERENCE
EA	EACH	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
EQ	EQUIPMENT	RH	RIGHT HINGE
ERI	ELECTRICAL ROUGH-IN	RI	ROUGH-IN
EXT	EXTERIOR	RM	ROOM
FAB	FABRICATE	RSUB	REFRIGERATION SUBCONTRACTOR
FLEX	FLEXIBLE	RVT	REVIT
FOH	FRONT OF HOUSE	SML	SMALLWARES VENDOR
FSD	FOODSERVICE DIRECTOR	SOW	SCOPE OF WORK
FSP	FOODSERVICE PROVIDER	SPEC	SPECIFICATION
FURN	FURNITURE VENDOR	SQ FT	SQUARE FEET
FW	FILTERED WATER	SS	SOLID SURFACE
GC	GENERAL CONTRACTOR	S/S	STAINLESS STEEL
GEN	GENERAL	STD	STANDARD
GYP	GYPSUM	T	THERMOSTAT
HC	HUMIDITY CONTROLLER	TL	TWIST LOCK
HGT	HEIGHT	TW	TEPID WATER
HORZ	HORIZONTAL	TYP	TYPICAL
HP	HORSEPOWER	V	VOLTS
HW	HOT WATER	VEN	VENDOR
IN	INCH	VERT	VERTICAL
INCL	INCLUDE	WARE	CHICK-FIL-A WAREHOUSE
INT	INTERIOR	WH	WATER HEATER
IT	CHICK-FIL-A IT (DTT)	WIC	WALK-IN COOLER
IW	INDIRECT WASTE	WIF	WALK-IN FREEZER
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KEC	KITCHEN EQUIPMENT CONTRACTOR		

HEALTH DEPARTMENT NOTES

1. ALL EQUIPMENT IS TO BE CONSTRUCTED AND INSTALLED PER THE REQUIREMENTS OF THE COUNTY'S BOARD OF HEALTH (DIVISION OF ENVIRONMENTAL HEALTH). ACCEPTANCE OF THESE PLANS BY THE COUNTY'S BOARD OF HEALTH IS SUBJECT TO FINAL INSPECTION BY SAID AGENCY. TRIMARK ASSUMES NO RESPONSIBILITY FOR ANY ADDITIONAL EQUIPMENT, TRIM, OR LABOR REQUIRED TO MEET ANY UNFORESEEN REQUIREMENTS THAT MAY ARISE FROM THE INSPECTION.
2. EMPLOYEE LOCKERS TO BE INSTALLED WITH METAL LEGS OR WALL MOUNTED AT A MINIMUM OF 6" OFF FINISHED FLOOR. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR WALL MOUNTED LOCKERS PER ARCHITECTURAL SHEETS IF REQUIRED.
3. ALL WALLS AND CEILING IN FOOD HANDLING AREAS TO BE SMOOTH, NON-ABSORBENT, LIGHT IN COLOR, AND EASILY CLEANABLE AS DEFINED BY THE LOCAL HEALTH DEPARTMENT.

MISCELLANEOUS NOTES

1. WHEN SOUND / MUSIC SYSTEM(S) ARE INSTALLED, ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS AND MAKE ALL NECESSARY ELECTRICAL HOOK-UPS.
2. MILLWORK VENDOR TO PROVIDE NETWORK CABINET IF REQUIRED. GENERAL CONTRACTOR TO INSTALL NETWORK CABINET PRIOR TO OFFICE MILLWORK INSTALLATION.

MECHANICAL NOTES

1. MECHANICAL ENGINEER TO PROVIDE MAKE-UP AIR WHICH SHALL BE DELIVERED TO THE SUPPLY AIR PLENUM OF THE EXHAUST HOOD OR IN THE PROXIMITY OF THE EXHAUST HOOD IN SUCH A MANNER AS TO NOT CREATE UNDUE TURBULENCE IN THE WORKING AREAS.
2. MECHANICAL CONTRACTOR TO VERIFY THE LOCATION(S) OF THE EXHAUST AND MAKE-UP AIR DUCT(S) AT JOB SITE WITH KITCHEN EQUIPMENT CONTRACTOR.
3. HVAC RETURNS SHOULD BE A MINIMUM OF 8'-0" AWAY FROM BREADING AREA.
4. AVOID HVAC DIFFUSERS ABOVE CENTERLINE TABLE.

SYMBOLS & LINETYPES

- #K-### — ERI ELEVATION MARKER
- #K-### — PRI ELEVATION MARKER
- INTERNATIONAL FIRE CODE CLEARANCE
- ELEVATION HEIGHT MARKER
- BLOCKING

- CLEARANCE
- EXISTING
- DEMO
- NEW
- FUTURE
- OBSTRUCTED
- SURFACE
- ABOVE

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FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
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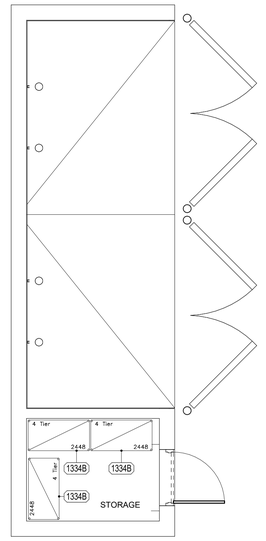
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

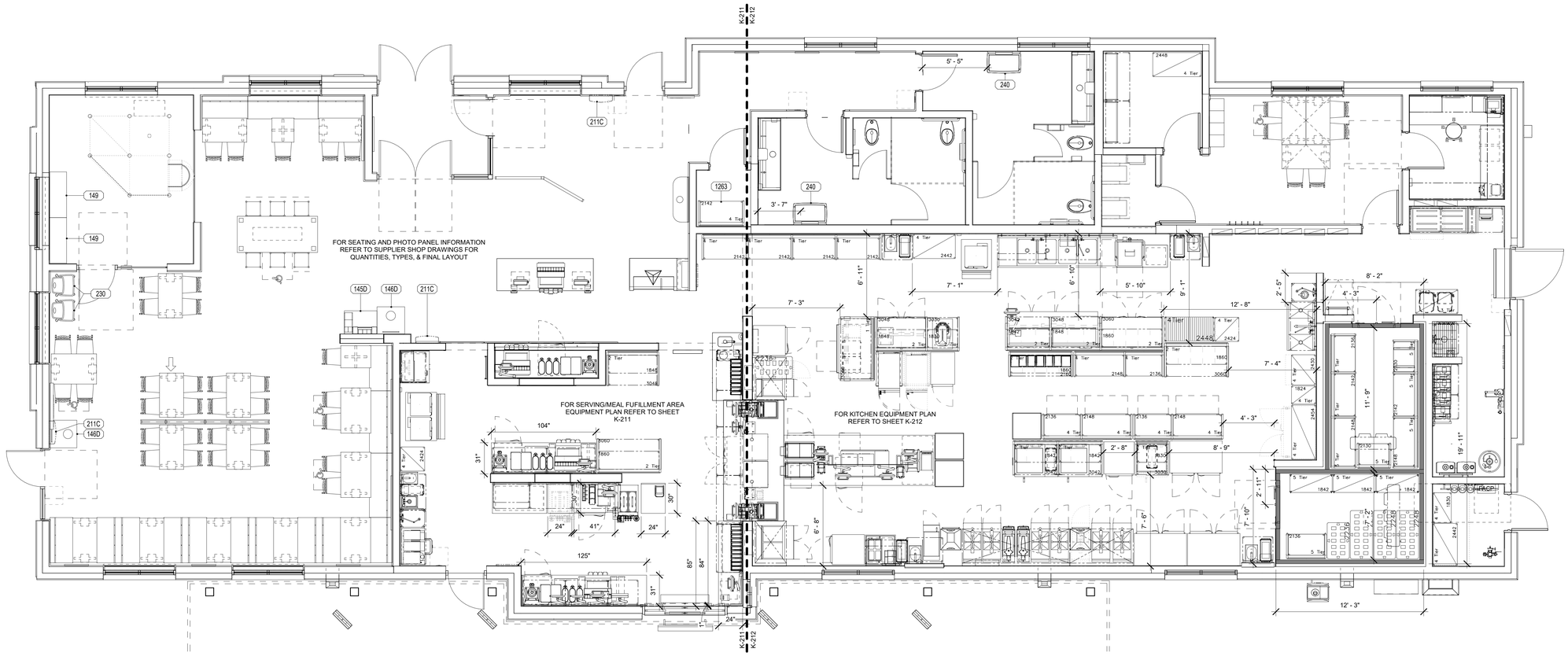
SHEET
GENERAL NOTES

SHEET NUMBER
K-001



NOTE:
REFUSE ENCLOSURE SHOWN FOR SHELVING LOCATIONS AND SPACING PURPOSES ONLY. VERIFY ACTUAL REFUSE ENCLOSURE INFORMATION AND LOCATION ON ARCHITECTURAL SHEETS.

2 REFUSE ENCLOSURE FLOOR PLAN
1/4" = 1'-0"



1 PARTIAL EQUIPMENT PLAN - DINING
1/4" = 1'-0"

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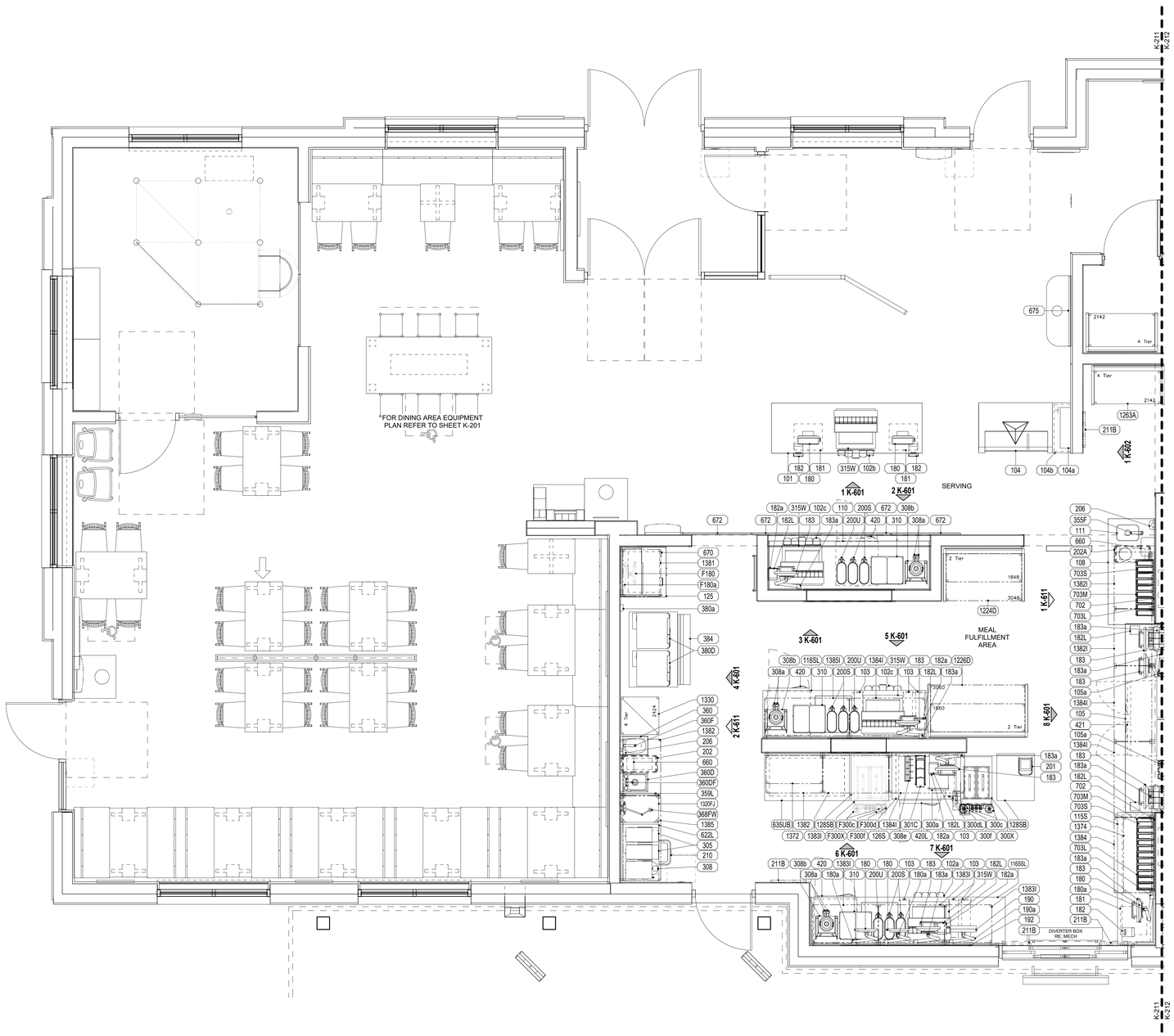
SHEET
OVERALL EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-201



1 PARTIAL EQUIPMENT PLAN - MEAL FULFILLMENT AREA/SERVING
3/8" = 1'-0"

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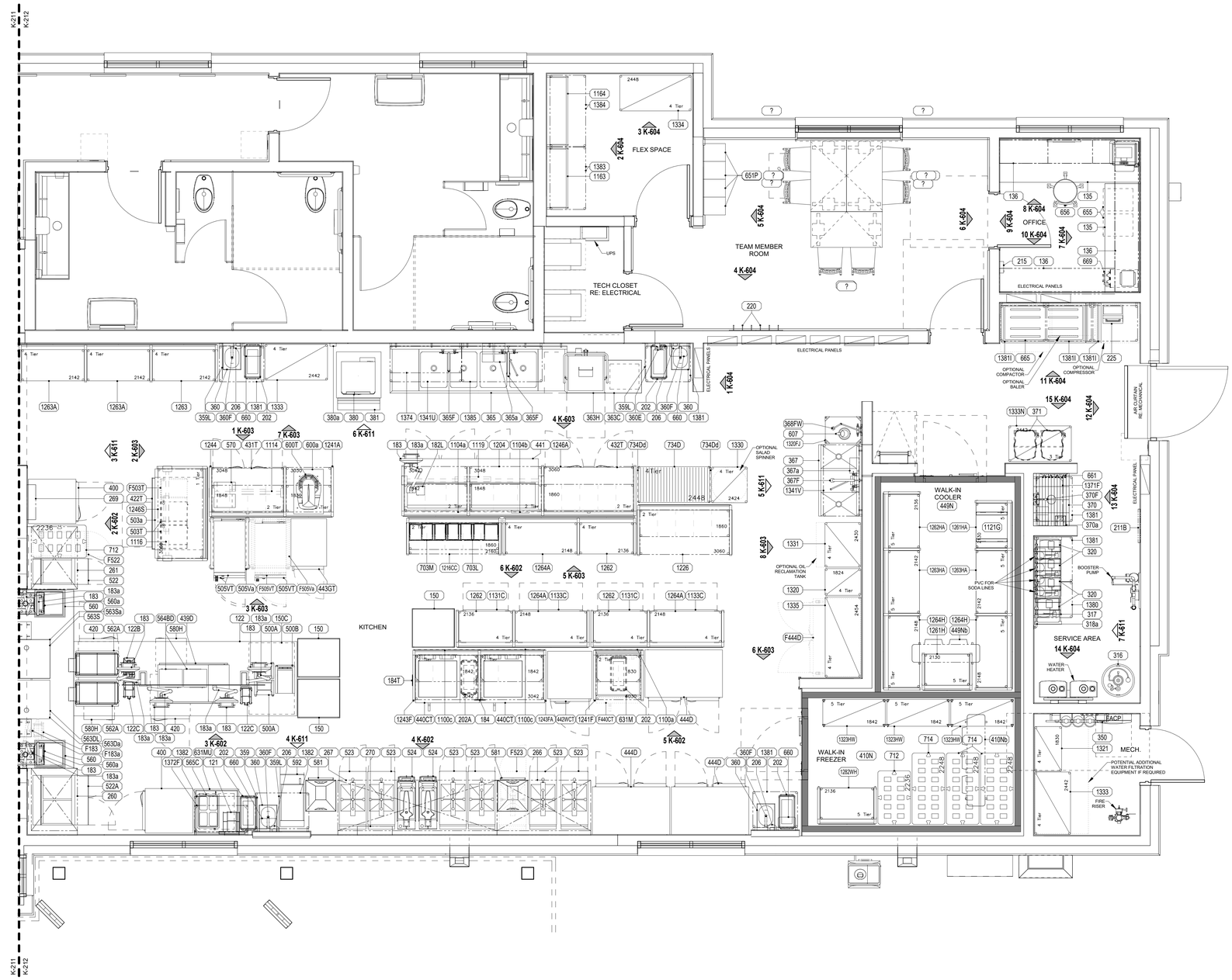
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-211

FOR PARTIAL SERVING/
MEAL FULFILLMENT
AREA EQUIPMENT PLAN
REFER TO SHEET K-211



1 PARTIAL EQUIPMENT PLAN - KITCHEN/BOH
3/8" = 1'-0"

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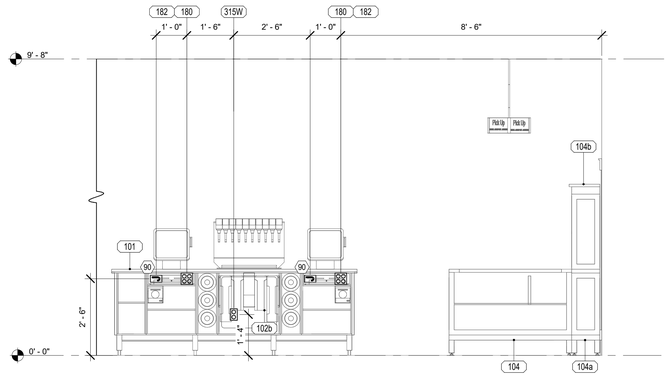
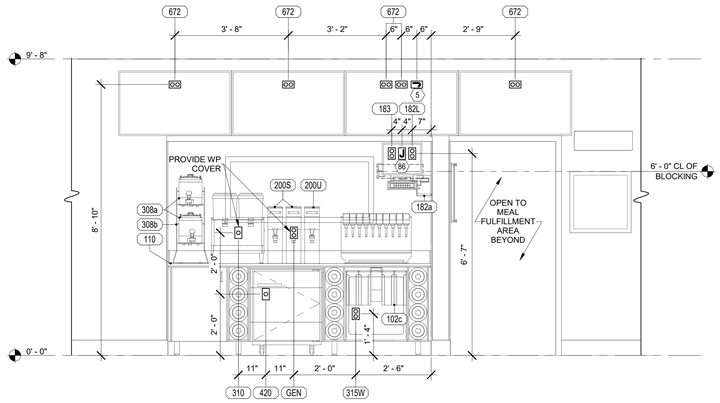
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

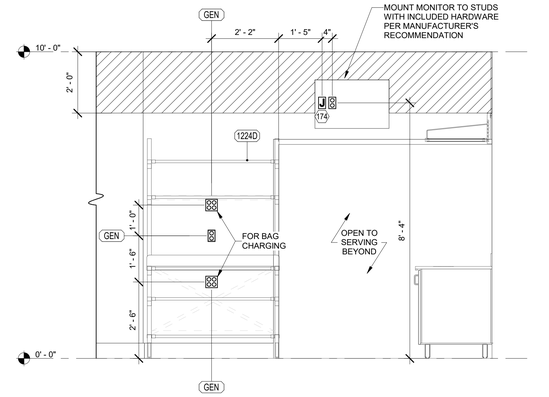
SHEET NUMBER
K-212



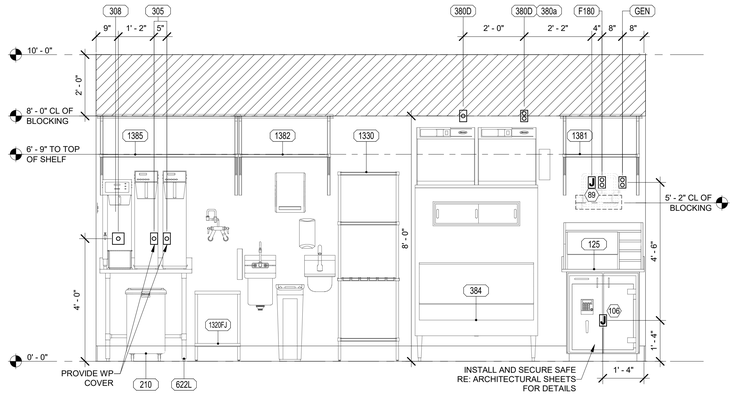
1 SERVING
1/2" = 1'-0"



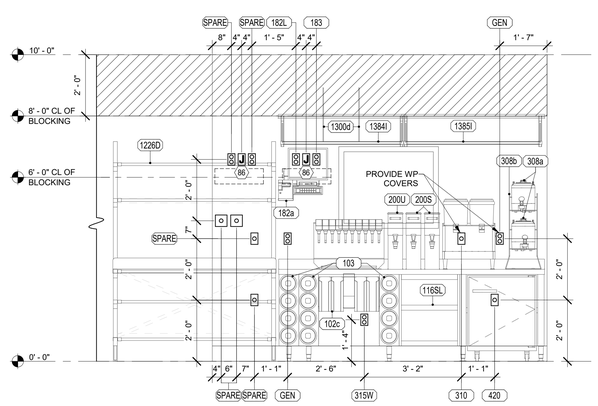
2 SERVING
1/2" = 1'-0"



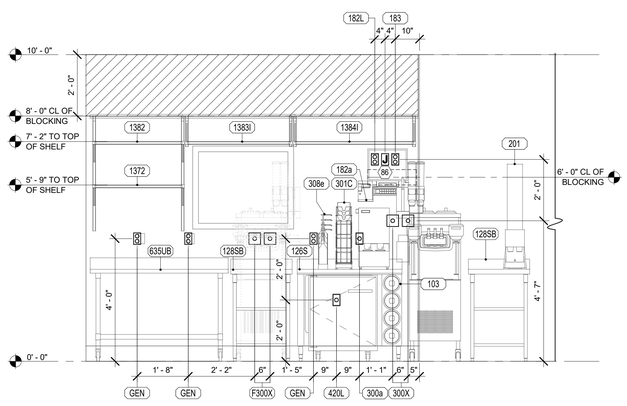
3 MEAL FULFILLMENT AREA
1/2" = 1'-0"



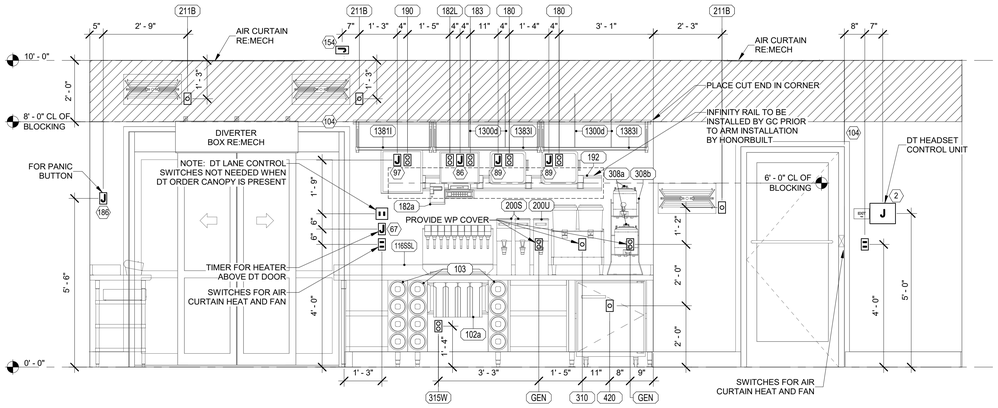
4 MEAL FULFILLMENT AREA
1/2" = 1'-0"



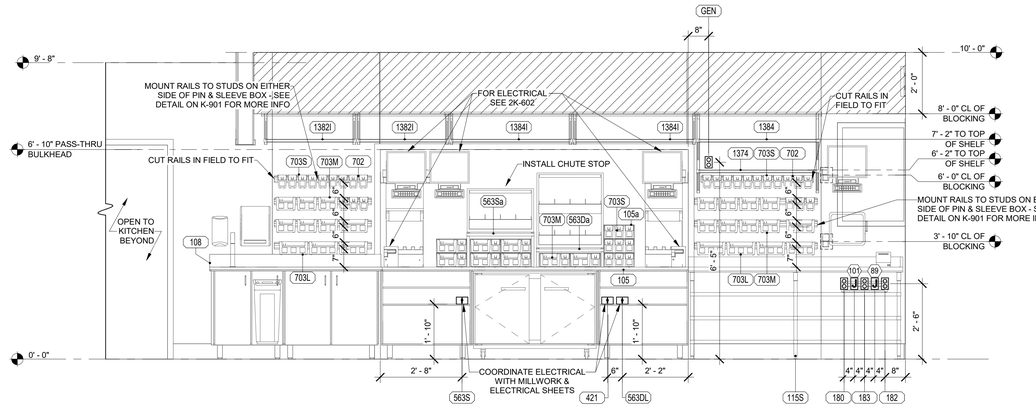
5 MEAL FULFILLMENT AREA
1/2" = 1'-0"



6 MEAL FULFILLMENT AREA
1/2" = 1'-0"



7 MEAL FULFILLMENT AREA
1/2" = 1'-0"



8 MEAL FULFILLMENT AREA
1/2" = 1'-0"

ELECTRICAL LEGEND

###As	EQUIPMENT ITEM NUMBER
###UR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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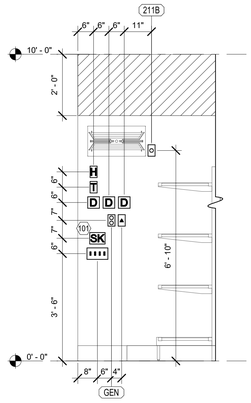
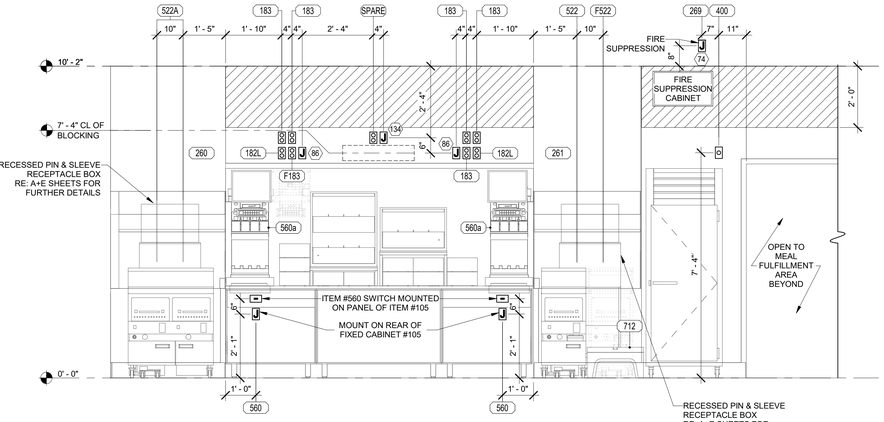
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

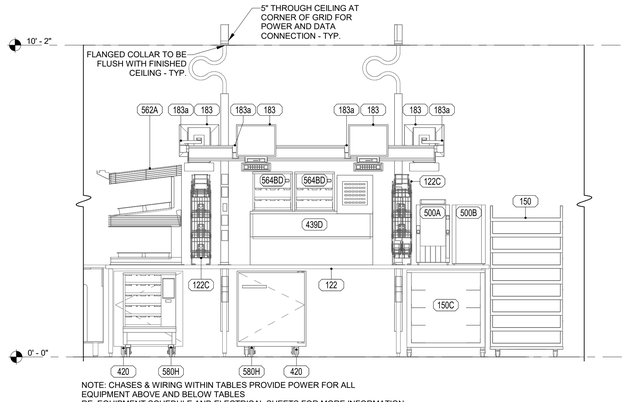
SHEET NUMBER
K-601



1 KITCHEN
1/2" = 1'-0"



2 KITCHEN
1/2" = 1'-0"



NOTE: CHASES & WIRING WITHIN TABLES PROVIDE POWER FOR ALL EQUIPMENT ABOVE AND BELOW TABLES
RE: EQUIPMENT SCHEDULE AND ELECTRICAL SHEETS FOR MORE INFORMATION

3 KITCHEN
1/2" = 1'-0"

FLEXIBLE ELECTRICAL CHASES

POINT OF CONNECTION - J-BOX AT TOP OF CHASE

CIRCUIT IG
ISOLATED GROUND

CIRCUIT A
DUPLEX RECEPTACLE
FRANKE HDH 18004540 OR ROUNDUP VCT-2

CIRCUIT B
DUPLEX RECEPTACLE
MERCO MHC22SNL2T OR RANDELL CR9048W-290-CFA OR ROUNDUP VCT-2 OR ANTUNES CW-100

CIRCUIT C
DUPLEX RECEPTACLE

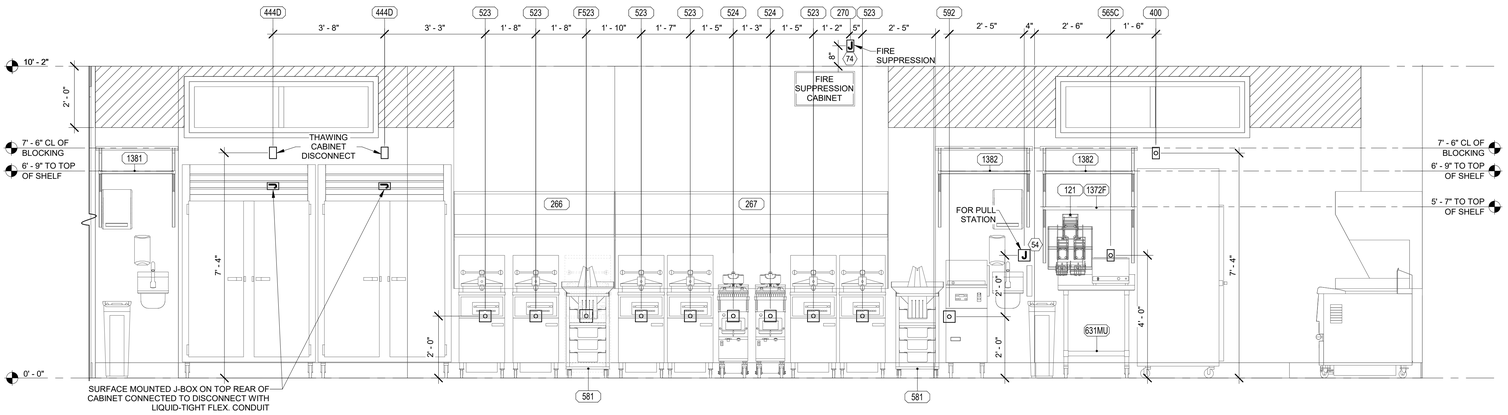
CIRCUIT D
DUPLEX RECEPTACLE
MERCO MHC22SNL2T OR RANDELL CR9048W-290-CFA OR ROUNDUP VCT-2 OR ANTUNES CW-100

CIRCUIT E
DUPLEX RECEPTACLE
MERCO MHC52SNT1T

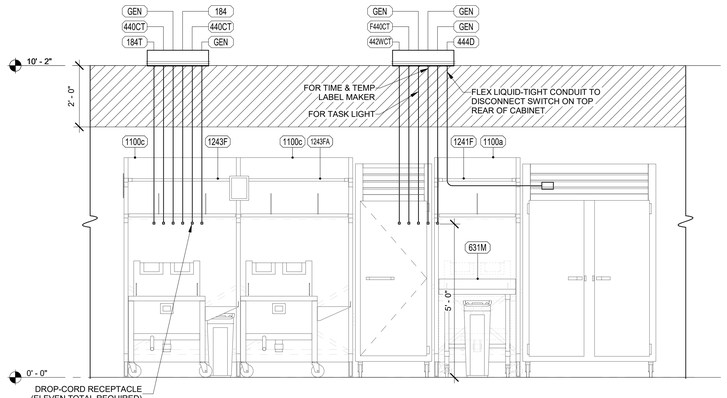
CIRCUIT F
DUPLEX RECEPTACLE

CIRCUIT G
DUPLEX RECEPTACLE
TRAULSEN UHT-27

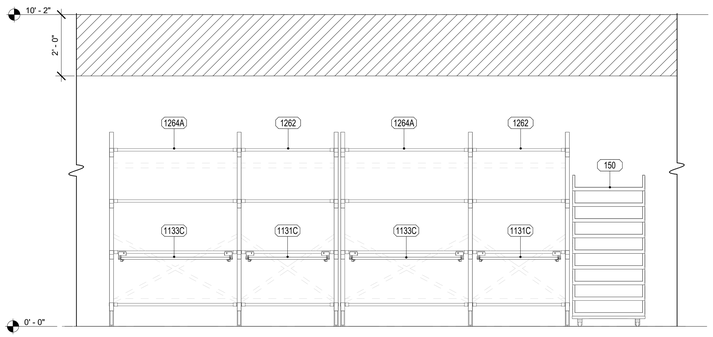
LOCKING RECEPTACLE
NEMA L6-30R 220VAC
ROUNDUP RT-2



4 KITCHEN
1/2" = 1'-0"



5 KITCHEN
1/2" = 1'-0"



NOTE:
SEE ELEVATION 5K-602 FOR DROP CORD RECEPTACLES

6 KITCHEN
1/2" = 1'-0"

ELECTRICAL LEGEND

###As	EQUIPMENT ITEM NUMBER
###AR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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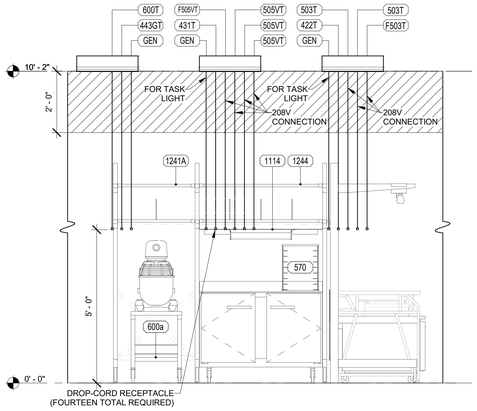
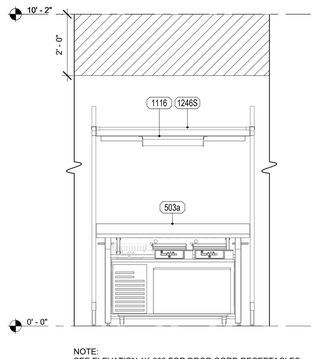
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-602

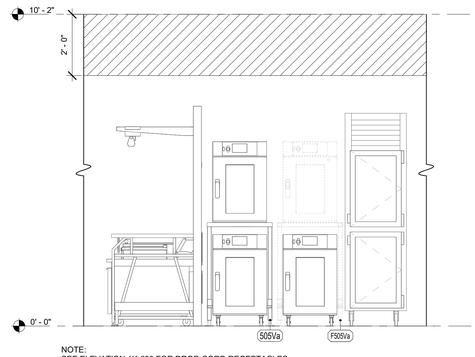


1 KITCHEN
1/2" = 1'-0"



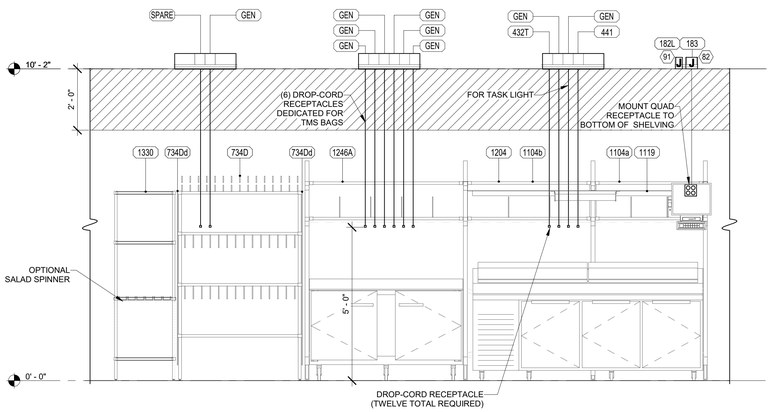
NOTE:
SEE ELEVATION 1K-603 FOR DROP-CORD RECEPTACLES

2 KITCHEN
1/2" = 1'-0"

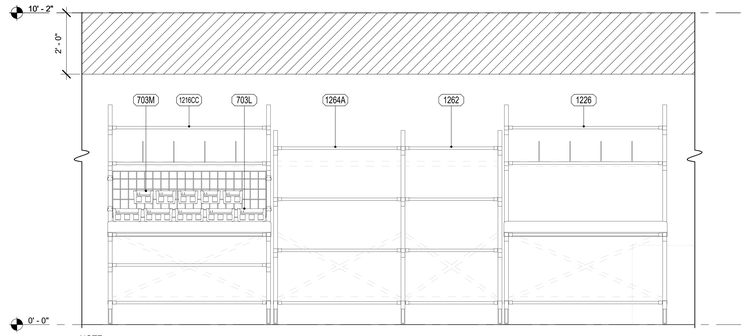


NOTE:
SEE ELEVATION 1K-603 FOR DROP-CORD RECEPTACLES

3 KITCHEN
1/2" = 1'-0"

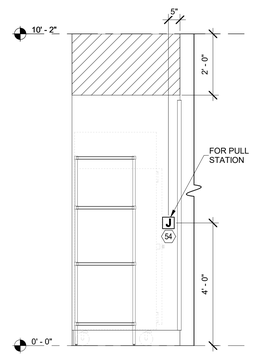


4 KITCHEN
1/2" = 1'-0"

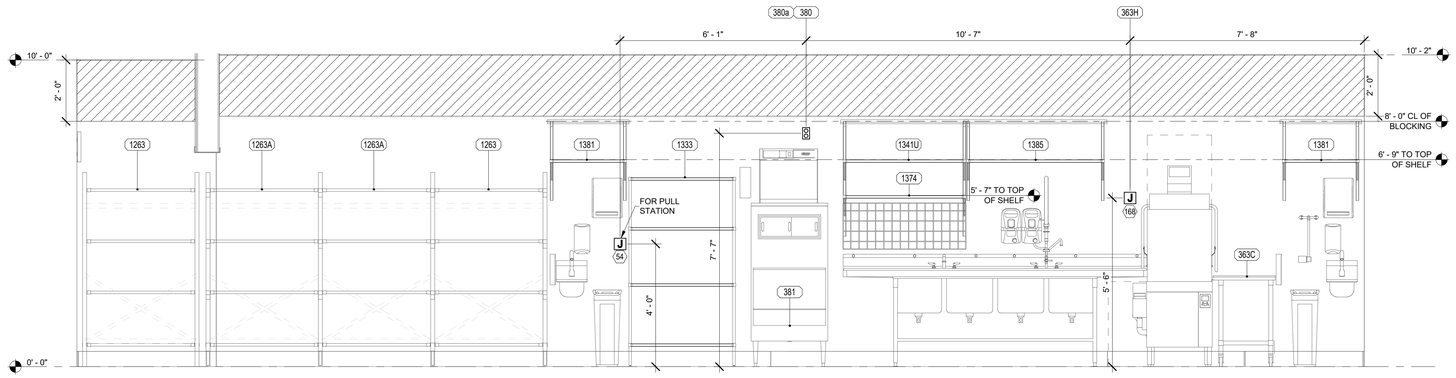


NOTE:
SEE ELEVATION 4K-603 FOR DROP CORD RECEPTACLES

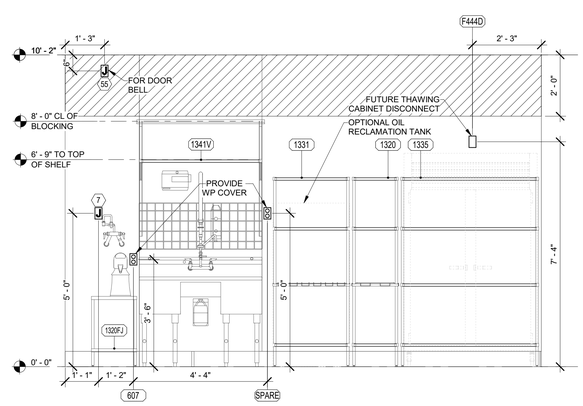
5 KITCHEN
1/2" = 1'-0"



6 KITCHEN
1/2" = 1'-0"



7 KITCHEN
1/2" = 1'-0"



8 KITCHEN
1/2" = 1'-0"

ELECTRICAL LEGEND

###Aa	EQUIPMENT ITEM NUMBER
###AiR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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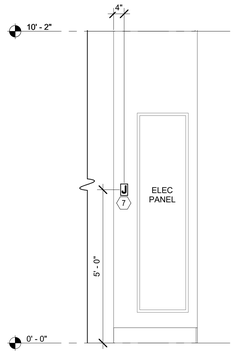
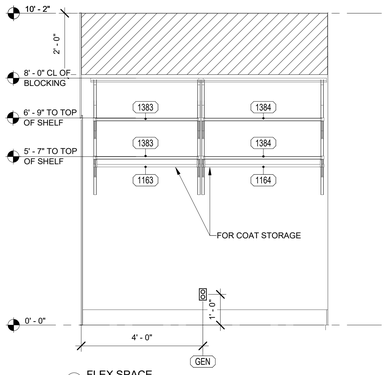
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

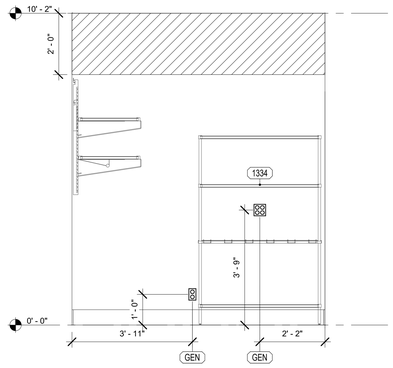
SHEET NUMBER
K-603



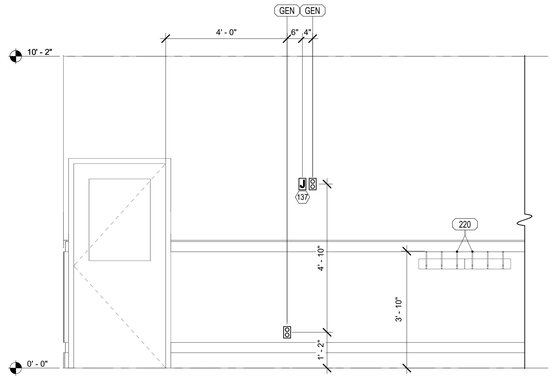
1 SERVICE AREA
1/2" = 1'-0"



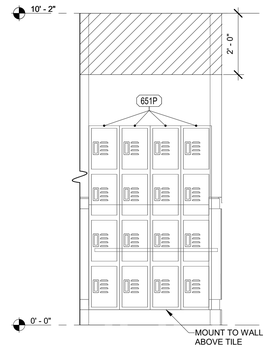
2 FLEX SPACE
1/2" = 1'-0"



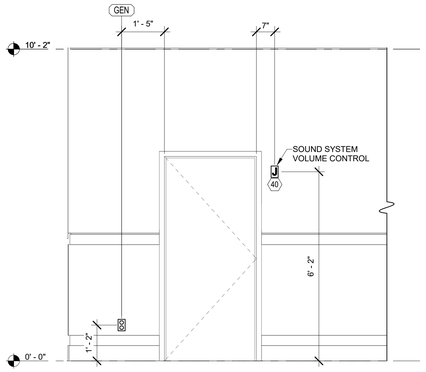
3 FLEX SPACE
1/2" = 1'-0"



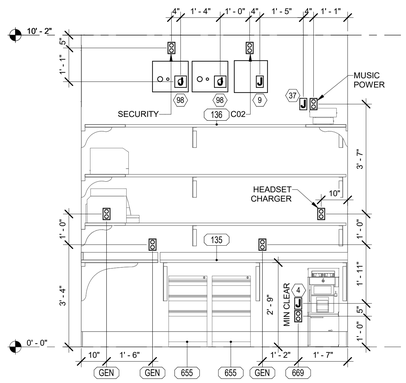
4 TEAM MEMBER ROOM
1/2" = 1'-0"



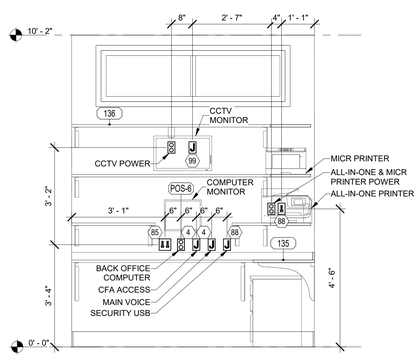
5 TEAM MEMBER ROOM
1/2" = 1'-0"



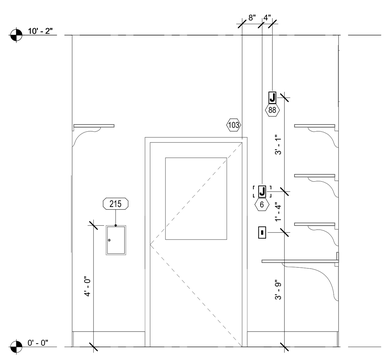
6 TEAM MEMBER ROOM
1/2" = 1'-0"



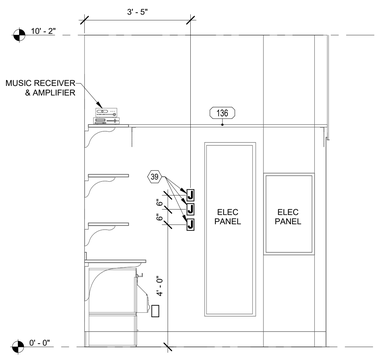
7 OFFICE
1/2" = 1'-0"



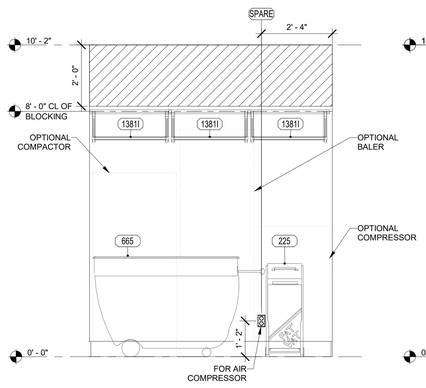
8 OFFICE
1/2" = 1'-0"



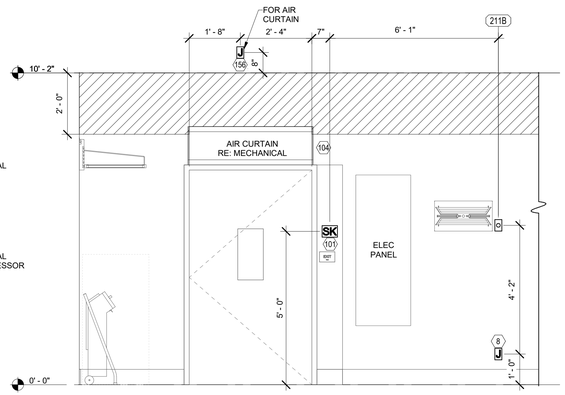
9 OFFICE
1/2" = 1'-0"



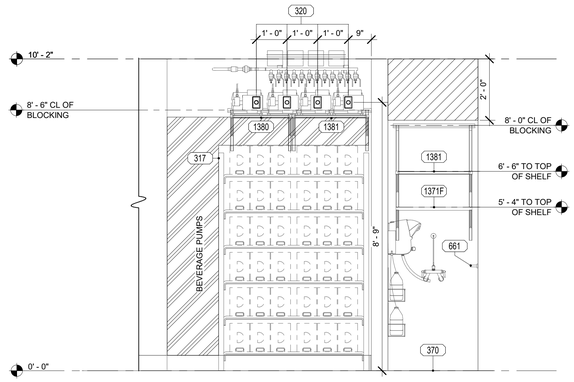
10 OFFICE
1/2" = 1'-0"



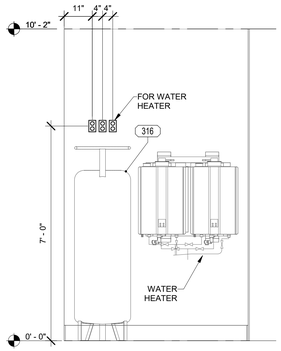
11 SERVICE AREA
1/2" = 1'-0"



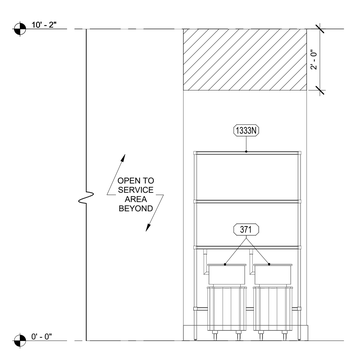
12 SERVICE AREA
1/2" = 1'-0"



13 SERVICE AREA
1/2" = 1'-0"



14 SERVICE
1/2" = 1'-0"



15 SERVICE
1/2" = 1'-0"

ELECTRICAL LEGEND

###Aa	EQUIPMENT ITEM NUMBER
###aR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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CHICK-FIL-A
OLDHAM VILLAGE

SW CORNER US WY 50
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BN
RELEASE: 24.08
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-604

EQUIPMENT SCHEDULE (NEW)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	ITEM NO.	GENERAL REMARKS
101	1	SERVING COUNTER	MILLWORK PROVIDER		MWK	KEC	101	REFER TO MANUFACTURER SHOP DRAWINGS
102a	1	MODULAR BEVERAGE CADDY KIT 1	MILLWORK PROVIDER		MWK	KEC	102a	KIT INCLUDES (1) BACKPLATE AND (4) LID HOLDERS
102b	1	MODULAR BEVERAGE CADDY KIT 2	MILLWORK PROVIDER		MWK	KEC	102b	KIT INCLUDES (1) BACKPLATE, (2) LID HOLDERS, (1) STRAW HOLDER, AND (2) TABLE MARKER HOLDERS - (1) DRINK CARRIER TO BE PROVIDED PER RESTAURANT (NOT SHOWN ON DRAWINGS)
102c	2	MODULAR BEVERAGE CADDY KIT 3	MILLWORK PROVIDER		MWK	KEC	102c	KIT INCLUDES (1) BACKPLATE, (4) LID HOLDERS, AND (1) STRAW HOLDER - (1) DRINK CARRIER TO BE PROVIDED PER RESTAURANT (NOT SHOWN ON DRAWINGS)
103	28	CUP DISPENSER	SAN JAMAR	C2410CCFA3	KEC	KEC	103	
104	1	PICK-UP COUNTER	MILLWORK PROVIDER		MWK	KEC	104	REFER TO MANUFACTURER SHOP DRAWINGS
104a	1	LOWER PICK-UP SHELF	MILLWORK PROVIDER		MWK	KEC	104a	REFER TO MANUFACTURER SHOP DRAWINGS
104b	1	UPPER PICK-UP SHELF	MILLWORK PROVIDER		MWK	KEC	104b	REFER TO MANUFACTURER SHOP DRAWINGS
105	1	PASS-THRU COUNTER	MILLWORK PROVIDER		MWK	KEC	105	REFER TO MANUFACTURER SHOP DRAWINGS
105a	11	STAINLESS STEEL BIN HOLDER	MILLWORK PROVIDER		MWK	KEC	105a	
108	1	BACKLINE COUNTER	MILLWORK PROVIDER	CAB 30	MWK	KEC	108	REFER TO MANUFACTURER SHOP DRAWINGS
110	1	BACK SERVING COUNTER	MILLWORK PROVIDER		MWK	KEC	110	REFER TO MANUFACTURER SHOP DRAWINGS
111	1	STAINLESS STEEL UNDER COUNTER MOUNT HAND SINK	VOLLRATH	10101-1	MWK	PC	111	PROVIDED IN MILLWORK PACKAGE
115S	1	REVERSE DRIVE-THRU CASH COUNTER (24"x84")	ATLANTA CUSTOM FABRICATORS	3ACF654	KEC	KEC	115S	-
116SL	1	BEVERAGE COUNTER (31"x104")	ATLANTA CUSTOM FABRICATORS	3ACF754	KEC	KEC	116SL	BEVERAGE TOWER ON LEFT
116SSL	1	BEVERAGE COUNTER (31"x125")	ATLANTA CUSTOM FABRICATORS	3ACF756	KEC	KEC	116SSL	BEVERAGE TOWER ON LEFT - FULL SIDE SPLASH
119	3	MULTI-PURPOSE TABLE	FURNITURE PROVIDER		FURN	KEC	119	RE: FURNITURE SHEETS FOR DETAILS
121	1	WALL MOUNTED SOUP PACKAGING HOLDER	FRANKE	27807101	FRANKE	KEC	121	SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
122	1	CENTERLINE 3.0 TABLE WITH INFINITY RAIL (150")	ATLANTA CUSTOM FABRICATORS	3ACF680	KEC	KEC	122	ORDER WITH (2) #3ACF298 CHASES
122B	1	XL MENU TAB PACKAGING HOLDER	FRANKE	27807100	KEC	KEC	122B	
122C	1	MIDLINE PRIMARY PACKAGING SYSTEM	FRANKE	27803615	KEC	KEC	122C	MODEL INCLUDES (2) PACKAGING TOWERS
125	1	SAFE COUNTER	MILLWORK PROVIDER		MWK	KEC	125	REFER TO MANUFACTURER SHOP DRAWINGS
126S	1	REVERSE DRIVE-THRU DESSERT COUNTER (30"x41")	ATLANTA CUSTOM FABRICATORS	3ACF380	KEC	KEC	126S	CUP HOLDERS ON RIGHT
128SB	2	DRIVE-THRU DESSERT STAGING TABLE (30"x24")	ATLANTA CUSTOM FABRICATORS	3ACF737	KEC	KEC	128SB	
135	2	COUNTERTOP	MILLWORK PROVIDER		MWK	KEC	135	REFER TO MANUFACTURER SHOP DRAWINGS
136	8	UPPER SHELF	MILLWORK PROVIDER		MWK	KEC	136	REFER TO MANUFACTURER SHOP DRAWINGS
145D	1	CONDIMENT COUNTER	MILLWORK PROVIDER		MWK	KEC	145D	REFER TO MANUFACTURER SHOP DRAWINGS
146D	2	TRASH CONTAINER	MILLWORK PROVIDER		MWK	KEC	146D	REFER TO MANUFACTURER SHOP DRAWINGS
149	2	SNEAKER KEEPER BENCH	MILLWORK PROVIDER		MWK	KEC	149	REFER TO MANUFACTURER SHOP DRAWINGS
150	3	BREAD RACK	LOCAL SUPPLIER		OWN	OWN	150	
150C	1	BREAD RACK CART (30 1/2"x48")	ATLANTA CUSTOM FABRICATORS	3ACF820	KEC	KEC	150C	
180	5	ORDER REGISTER	NCR	P1230	IT	IT	180	PROVIDED BY CFA IT
180a	3	RADIAL ARM	INNOVATIVE	7000	IT	IT	180a	USED TO MOUNT ORDER MONITORS
181	3	CASH DRAWER	APG	1816 (SERIES 4000)	IT	IT	181	PROVIDED BY CFA IT
182	3	RECEIPT PRINTER	EPSON	TM-T88IV	IT	IT	182	PROVIDED BY CFA IT
182a	4	PRINTER CADDY	ONSITE		IT	IT	182a	USED TO MOUNT PRINTER TO ORDER MONITOR
182L	7	LABEL PRINTER	EPSON	TM-L90	IT	IT	182L	PROVIDED BY CFA IT
183	15	ORDER MONITOR	RADIANT	KITCHEN PRODUCTION SYSTEM	IT	IT	183	PROVIDED BY CFA IT
183a	15	RADIAL ARM	INNOVATIVE	7000	IT	IT	183a	USED TO MOUNT ORDER MONITORS
184	1	IPAD	APPLE		VEN	IT	184	PROVIDED BY CONNECTION
184T	1	ITIMER	APPLE		SML	IT	184T	PROVIDED BY CLARK
190	1	DRIVE-THRU VIDEO MONITOR	ACER	V173DJB	IT	IT	190	
190a	1	RADIAL ARM	INNOVATIVE	7000	IT	IT	190a	USED TO MOUNT ORDER MONITORS
192	1	INFINITY RAIL (84")	ERGOMART	RT-84-CAB-16HC	KEC	KEC	192	MOUNT TO WALL WITH INCLUDED HARDWARE
200S	6	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS	TCN040-SW	KEC	KEC	200S	
200U	3	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS	TCN040-US	KEC	KEC	200U	
201	1	ICE CREAM CONE DISPENSER	DISPENSE-RITE	BCDS-BFL	SML	GC	201	PROVIDED BY CLARK
202	6	SLIM JIM TRASH CAN	RUBBERMAID	FG354060GRAY	SML	OWN	202	PROVIDED BY CLARK
202A	2	SLIM JIM TRASH CAN	RUBBERMAID	1971258	MWK	OWN	202A	
206	6	SOAP DISPENSER	ECOLAB	92211379	VEN	VEN	206	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
210	1	INGREDIENT BIN	RUBBERMAID	3602-88	SML	OWN	210	PROVIDED BY CLARK
211B	5	FLY LIGHT	PESTWEST	125-000502 (MANTIS QUALIS)	KEC	EC	211B	
211C	3	FLY LIGHT	PESTWEST	125-000513 (MANTIS SIRIUS X)	KEC	EC	211C	
215	1	KEY CABINET	BARSKA	CB13364	SML	OWN	215	PROVIDED BY CLARK
220	2	COAT RACK	SAFCO	4161	SML	GC	220	PROVIDED BY CLARK
225	1	FAT VAT	PITCO FRIALATOR	FAT VAT	SML	OWN	225	PROVIDED BY CLARK
230	4	HIGH CHAIR	RUBBERMAID	FG780508	SML	OWN	230	PROVIDED BY CLARK
240	2	BABY CHANGING STATION	RUBBERMAID	FG781888	KEC	KEC	240	RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
260	1	42" BACKSHELF HOOD + 3" STANDOFF	HALTON	KVL-C-IC	VEN	GC	260	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
261	1	42" BACKSHELF HOOD	HALTON	KVL-C-IC	VEN	GC	261	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
266	1	63" BACKSHELF HOOD	HALTON	KVL-2 IC	VEN	GC	266	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
267	1	107" BACKSHELF HOOD	HALTON	KVL-2 IC	VEN	GC	267	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
269	1	FIRE SUPPRESSION SYSTEM	HALTON		VEN	GC	269	REMOTE CABINET - REFER TO SHOP DRAWINGS
270	1	FIRE SUPPRESSION SYSTEM	HALTON		VEN	GC	270	LOCATED ABOVE HOOD BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS
300a	1	MILKSHAKE BASE DISPENSER	KANPAK	CDE211	KEC	KEC	300a	
300c	2	SINGLE-SPINDLE MIXER	HAMILTON BEACH	HMD300M-CFA	KEC	KEC	300c	
300dL	1	TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS	7201-NCH	KEC	KEC	300dL	LEFT HAND MOUNT - ORDER (1) #3FRA112
300f	1	DOUBLE SLIMLINE COOKIE DISPENSER	SERVER	88847	KEC	KEC	300f	
300X	1	DOUBLE BARREL ICE CREAM MACHINE	TAYLOR	0793338WDC (AIR COOLED)	KEC	KEC	300X	
301C	1	CUP DISPENSER AND LID ORGANIZER	WIREWORKS	C8504WF	KEC	OWN	301C	
305	2	TEA BREWER	WILBUR CURTIS	TCTT-10000	KEC	PC	305	PROVIDE QUICK DISCONNECT HOSES
308	1	SINGLE COFFEE MAKER	WILBUR CURTIS	TP2S10A3140	KEC	PC	308	PROVIDE QUICK DISCONNECT HOSES
308a	6	COFFEE DISPENSER	WILBUR CURTIS	TFT1G3040	KEC	OWN	308a	ORDER (2) ADDITIONAL DISPENSERS (NOT SHOWN ON DRAWINGS)
308b	3	COFFEE DISPENSER STAND	H&K	CFA105	KEC	OWN	308b	
308e	1	SYRUP RACK	MONIN	P573	SML	OWN	308e	PROVIDED BY CLARK
310	3	DOUBLE LEMONADE BUBBLER	CRATHCO	CS-2D-16	KEC	KEC	310	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	4	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	LANCER	85-23710T-110-07-CFA	KEC	VEN	315W	INCLUDES PORTION CONTROL VALVES
316	1	CO2 TANK	CHART INDUSTRIES	CARBO-MAX 600	KEC	VEN	316	SECURE TO WALL WITH CHAIN - VENT LINE NOT TO EXCEED 100' - CO2 FILL BOX TO BE WITHIN 15' OF TANK
317	1	BEVERAGE RACK SYSTEM (6 SHELF - 6 WIDE)	PROFITMASTER	3PMD010	KEC	KEC	317	
318a	1	12-STOP WATER MANIFOLD PANEL	ELLIS ENTERPRISE	636319	KEC	PC	318a	
320	4	TURBO CARBONATOR	LANCER	85-1923-03	KEC	VEN	320	ORDER (6) #44231, (2) #44233, (6) DR. PEPPER PUMPS, AND (2) #C77004
350	1	WATER FILTRATION SYSTEM - TYPE A	SELECTO SCIENTIFIC T1 FILTER SYSTEM	80-6203CFB-PEX	KEC	PC	350	
355F	1	SENSOR FAUCET (DECK MOUNTED HAND SINK)	TOTO	T24T51ET#CP	PC	PC	355F	
359	1	WALL MOUNTED SPLASH GUARD (24"Dx12"H WITH HEMMED EDGE)	ATLANTA CUSTOM FABRICATORS	3ACF460	KEC	GC	359	RIGHT HAND MOUNT
359L	4	WALL MOUNTED SPLASH GUARD (24"Dx12"H WITH HEMMED EDGE)	ATLANTA CUSTOM FABRICATORS	3ACF459	KEC	GC	359L	LEFT HAND MOUNT
360	5	HAND SINK	EAGLE	YCFA-HSAN-0004-00	KEC	PC	360	WITH SIDE MOUNTING BRACKETS
360D	1	DUMP SINK	ATLANTA CUSTOM FABRICATORS	3ACF354	KEC	PC	360D	PROVIDED WITH BASKET DRAIN AND PERFORATED SCRAP BASKET
360DF	1	FAUCET (DUMP SINK)	T&S	B-1146-CFA-VF05	PC	PC	360DF	
360E	1	EMERGENCY EYEWASH STATION	ACORN	S0660-RH	PC	PC	360E	
360F	5	SENSOR FAUCET (WALL MOUNTED HAND SINK)	TOTO	TEL165-C20E#CP	PC	PC	360F	
363C	1	CLEAN DISH TABLE	ATLANTA CUSTOM FABRICATORS	3ACF251	KEC	KEC	363C	WITH UNDERSHELF AND 5" CASTERS
363H	1	HIGH-TEMP UPRIGHT DISHWASHER	HOBART	AM16SVLT-2	KEC	PC	363H	INCLUDES 6' BRAIDED HOSE AND INTEGRATED DRAIN WATER TEMPERING SYSTEM - ORDER WITH ASR-LEFT-AM16 ACCESSORY
365	1	4 COMPARTMENT UTENSIL SINK	EAGLE	YCFA 314-18-4-19.5	KEC	PC	365	WITH (2) 18" DRAIN BOARDS
365a	1	4 COMPARTMENT SINK CHEMICAL DISPENSER	SOLIDSENSE		OWN	PC	365a	PROVIDED BY OPERATOR
365F	1	UTENSIL SINK FAUCET	T&S	B-0152-14-CRBCT & B2299-CR	PC	PC	365F	
367	1	DOUBLE BOWL VEGETABLE PREP SINK	EAGLE	YCFA-0072-00	KEC	PC	367	WITH 16" CENTER DRAIN BOARD AND HOLE IN BACKSPLASH
367a	1	VEGETABLE WASH DISPENSER	ECOLAB		OWN	PC	367a	
367F	1	FAUCET FOR VEGETABLE PREP SINK	T&S	B-0152-14-CRBCT	PC	PC	367F	
368FW	2	FILTERED WATER FAUCET (WALL MOUNTED)	T&S	B-0599-CR	PC	PC	368FW	
370	1	RECESSED MOP SINK	BUILT-IN BY GC		GC	GC	370	
370a	1	MOP SINK CHEMICAL DISPENSER	SOLIDSENSE		OWN	PC	370a	
370F	1	MOP SINK FAUCET	T&S	B-2345	PC	PC	370F	
371	2	MOP BUCKET			SML	OWN	371	PROVIDED BY CLARK
380	1	ICE MACHINE	FOLLETT	HMF1412RBT	KEC	VEN	380	INSTALL ON TOP OF ICE BIN - ORDER WITH 35' LINE SETS
380a	2	ICE BIN SANITATION SYSTEM	BIOZONE	IZ-X-20	KEC	RSUB	380a	INSTALL ON WALL ABOVE ICE BIN
380C	1	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	FOLLETT	HORIZON ELITE	KEC	GC	380C	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380CD	2	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	FOLLETT	HORIZON ELITE	KEC	GC	380CD	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380D	2	ICE MACHINE	FOLLETT	HMF1810RBT	KEC	VEN	380D	INSTALL ON TOP OF ICE BIN - ORDER WITH 35' LINE SETS
381	1	ICE BIN (30"Wx64"H)	FOLLETT	SG700S-30	KEC	KEC	381	ORDER WITH 10" LEGS AND ICE PADDLE
384	1	ICE BIN (48"Wx69"H)	FOLLETT	SG1300S-48	KEC	KEC	384	ORDER WITH 10" LEGS AND ICE PADDLE
400	2	SINGLE UPRIGHT FREEZER (30")	TRAULSEN	RLT132WUT-FHS	KEC	KEC	400	HINGE RIGHT - ORDER WITH FINISHED BACK AND 4 5/8" CASTERS
410N	1	WALK-IN FREEZER	NORLAKE		KEC	RSUB	410N	ORDER WITHOUT FLOOR
410Na	1	WALK-IN FREEZER CONDENSER	NORLAKE	BCH0035LCBCZ	KEC	RSUB	410Na	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
410Nb	1	WALK-IN FREEZER EVAPORATOR	NORLAKE	BEL0130BS6EEA	KEC	RSUB	410Nb	
420	5	SINGLE UNDERCOUNTER REFRIGERATOR (27")	TRAULSEN	UHT27-ZCF	KEC	KEC	420	HINGE RIGHT - ORDER WITH 4 1/8" CASTERS
420L	1	SINGLE UNDERCOUNTER REFRIGERATOR (27")	TRAULSEN	UHT27-ZCF	KEC	KEC	420L	HINGE LEFT - ORDER WITH 4 1/8" CASTERS
421	1	DOUBLE UNDERCOUNTER REFRIGERATOR (48")	TRAULSEN	UHT48-LR	KEC	KEC	421	ORDER WITH 4 1/8" CASTERS
422T	1	REFRIGERATED EQUIPMENT STAND (48")	TRAULSEN	TE048HT-ZCF01	KEC	KEC	422T	ORDER WITH 4" CASTERS
431T	1	DOUBLE WORKTOP REFRIGERATOR (48")	TRAULSEN	UHT48-ZCF-LR	KEC	KEC	431T	ORDER WITH 6 1/4" CASTERS AND BACKSPLASH TOP
432T	1	DOUBLE WORKTOP REFRIGERATOR (60")	TRAULSEN	UHT60-LR	KEC	KEC	432T	ORDER WITH 6 1/4" CASTERS AND BACKSPLASH TOP
439D	1	DUAL-SIDED COLD RAIL (48")	RANDELL	CR9048W-290-CFA	KEC	KEC	439D	
440CT	2	ICE BATH BREADING TABLE	DUKE	BSTA-120-US	KEC	KEC	440CT	LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON DRAWINGS
441	1	SALAD PREP TABLE (90")	TRAULSEN	TS090HT-ZCF03	KEC	KEC	441	ORDER WITH 4" CASTERS - INCLUDES PAN PACKAGE
442WCT	1	SINGLE UPRIGHT REFRIGERATOR (30")	TRAULSEN	RH132W-ZCF16	KEC	KEC	442WCT	HINGE RIGHT - PROVIDE FINISHED BACK - ORDER WITH 6 1/4" CASTERS
443GT	1	SINGLE UPRIGHT REFRIGERATOR (24")	TRAULSEN	RHT132DUT-HHG	KEC	KEC	443GT	HINGE RIGHT - HALF HEIGHT GLASS DOORS - PROVIDE FINISHED BACK - ORDER WITH 6" CASTERS
444D	3	DOUBLE THAWING CABINET (52 1/8")	TRAULSEN	RE232N-ZCF02	KEC	KEC	444D	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS
449N	1	WALK-IN COOLER	NORLAKE		KEC	RSUB	449N	ORDER WITHOUT FLOOR
449Na	1	WALK-IN COOLER CONDENSER	NORLAKE	BCH0010MCACZ	KEC	RSUB	449Na	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
449Nb	1	WALK-IN COOLER EVAPORATOR	NORLAKE	BEL0095BS6AMA	KEC	RSUB	449Nb	
500A	2	VERTICAL CONTACT TOASTER	ROUNDUP	VCT-2	KEC	KEC	500A	
500B	1	RADIANT TOASTER	ROUNDUP	RT-2	KEC	KEC	500B	
503a	1	EGG TABLE (60")	ATLANTA CUSTOM FABRICATORS	CFA-ET-501	KEC	KEC	503a	
503T	2	EGG STATION	ANTUNES	ES-600R 9300657	KEC	KEC	503T	
505Va	1	VECTOR OVEN STAND	ALTO-SHAAM	5034382-0	KEC	KEC	505Va	INCLUDES GASKET FOR STACKING VECTOR OVENS
505VT	3	VECTOR OVEN	ALTO-SHAAM	VMC-H3H 106224	KEC	KEC	505VT	HINGE RIGHT
522	1	SINGLE OPEN FRYER	HENNY PENNY	CFE-410	KEC	KEC	522	
522A	1	DOUBLE OPEN FRYER	HENNY PENNY	CFE-420	KEC	KEC	522A	
523	6	PRESSURE FRYER	HENNY PENNY	PFE-500	KEC	KEC	523	
524	2	DUAL SIDE CLAMSHELL GRILL	GARLAND	CXPB12	KEC	KEC	524	
560	2	FRY HOLDING STATION	BKI	FW-15BB 312007F (FW15-00000018)	KEC	KEC	560	
560a	2	FRY CARTON DISPENSER ASSEMBLY	SAN JAMAR	WFD210 & WFD230	KEC	KEC	560a	ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT

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LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
PRINTED FOR

PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-801

EQUIPMENT SCHEDULE (NEW)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	ITEM NO.	GENERAL REMARKS
562A	2	HIGH DENSITY HOT HOLDING TOWER	FRANKE	18017713	KEC	KEC	562A	
563Da	1	DOUBLE TIER SANDWICH SLIDE STAND	MILLWORK PROVIDER		MWK	KEC	563Da	REFER TO MANUFACTURER SHOP DRAWINGS
563DL	1	DOUBLE TIER SANDWICH SLIDE (26")	BKI	2TSM-2624L	KEC	KEC	563DL	CORD EXITS LEFT
563S	1	SINGLE TIER SANDWICH SLIDE (26")	BKI	SM-2624R	KEC	KEC	563S	CORD EXITS RIGHT
563Sa	1	SINGLE TIER SANDWICH SLIDE STAND	MILLWORK PROVIDER		MWK	KEC	563Sa	REFER TO MANUFACTURER SHOP DRAWINGS
564BD	2	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	MERCO	MHC22SNL2T	KEC	KEC	564BD	DUAL-SIDED DISPLAY - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, AND FALSE BOTTOMS
565C	1	FOOD COOKER/WARMER	ANTUNES	CW-100	KEC	KEC	565C	ORDER WITH (1) #3VOL042, (2) #3VOL043, (8) #3VOL051, AND (8) #3VOL061
570	1	COOLING RACK	H&K	CFA104	KEC	KEC	570	
580H	2	VISUAL HOT HOLDING CABINET (5x2)	MERCO	MHC52SNT1T	KEC	KEC	580H	ORDER WITH LIDS/TRAY SEALS
581	2	CHICKEN TRANSFER STATION	FRANKE	18008028	KEC	KEC	581	
592	1	RETHERMALIZER	PITCO	CFA-SRTE	KEC	KEC	592	
600a	1	MIXER TABLE (30"x20")	ATLANTA CUSTOM FABRICATORS	3ACF498	KEC	KEC	600a	WITH 5" CASTERS
600T	1	MIXER	HOBART	HL200-1	KEC	KEC	600T	ORDER WITH (1) #3HOB405, (1) #3HOB061, (2) #3HOB318, (2) #3HOB319, AND (1) #3HOB058
605	1	MOBILE CART	INTERMETRO	MW206	KEC	KEC	605	ORDER WITH 5" CASTERS - NOT SHOWN ON DRAWINGS
607	1	COUNTERTOP LEMON JUICER	SUNKIST	J-1	KEC	KEC	607	
622L	1	FOOD PREP TABLE (24"x36")	EAGLE	T2436STE-BS	KEC	KEC	622L	WITH BACKSPLASH AND 1 5/8" DIAMETER LEGS
631M	1	FILET TABLE (30"x30")	ATLANTA CUSTOM FABRICATORS	3ACF355	KEC	KEC	631M	WITH MARINE EDGE, BACKSPLASH, AND 5" CASTERS
631MU	1	FOOD PREP TABLE (30"x30")	EAGLE	T3030SEM-BS	KEC	KEC	631MU	WITH MARINE EDGE, UNDERSHELF, BACKSPLASH, AND 5" CASTERS
635UB	1	FOOD PREP TABLE (30"x54")	EAGLE	T3054SE-BS	KEC	KEC	635UB	WITH UNDERSHELF, BACKSPLASH, AND 5" CASTERS
651a	16	LOCKER ACCESSORIES	SALSBURY INDUSTRIES	77795 & 77760	KEC	KEC	651a	NOT SHOWN ON DRAWINGS - FACTORY INSTALLED LOCK WITH RECESSED HASP - NAME NUMBER PLATES
651P	4	LOCKERS	SALSBURY INDUSTRIES	64165GY-A & 77550	KEC	KEC	651P	STANDARD METAL LOCKER - 4-TIER, 1 WIDE - DEEP GRAY - WITHOUT LEGS
655	2	FILE CABINET	HIRSH INDUSTRIES	18574	SML	OWN	655	3-DRAWER
656	1	DESK CHAIR	BOSS	B6456-BK	SML	OWN	656	
660	6	PAPER TOWEL DISPENSER	SAN JAMAR	T1400REBKB	KEC	GC	660	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
661	1	MOP RACK	ECOLAB	89990057	SML	GC	661	PROVIDED BY CLARK
665	1	TRASH CART WITH LID	RUBBERMAID	1011	KEC	KEC	665	ORDER WITH (1) #1028
669	1	OFFICE SAFE	TIDEL	TITAN	IT	IT	669	INSTALL SAFE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
670	1	SAFE	AMERICAN SECURITY PRODUCTS	933835S6	KEC	KEC	670	DIGITAL KEYPAD OUTER DOOR HINGE RIGHT
672	4	DIGITAL MENU BOARD (50")	SAMSUNG	QM50C	IT	IT	672	PROVIDED BY COATES
675	1	STATUS BOARD (50")	SAMSUNG	QM50C	IT	IT	675	PROVIDED BY COATES
680	15	YELLOW MAGNETIC SAFETY POST	THE PARKING ZONE	GPMP48Y SHIM	KEC	GC	680	ORDER CFA ITEM #3TPZ001 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
680a	2	EPOXY GUN REFILL	THE PARKING ZONE	GP	KEC	GC	680a	ORDER CFA ITEM #3TPZ002 - GC TO USE PER GC INSTALL GUIDE - NOT SHOWN ON DRAWINGS
680b	2	ZINC-PLATED BASE PLATE	THE PARKING ZONE	GPPLATE	KEC	GC	680b	ORDER CFA ITEM #3TPZ008 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
686	20	YELLOW RUBBER BASE DELINEATOR	FRONT LINE SAFETY	6290Y	KEC	GC	686	ORDER CFA ITEM #3FLT007 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
702	8	WALL MOUNT SINGLE RAIL	ULINE	H-4681	KEC	KEC	702	SUPPORT FOR CONDIMENT BINS
703L	14	LARGE CONDIMENT BIN	CARLISLE	104976GY	KEC	KEC	703L	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
703M	27	MEDIUM CONDIMENT BIN	CARLISLE	104977GY	KEC	KEC	703M	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
703S	43	SMALL CONDIMENT BIN	CARLISLE	104978GY	KEC	KEC	703S	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
712	2	DUNNAGE RACK (22"x36")	INTERMETRO	HP2236PDMB	KEC	KEC	712	
714	3	DUNNAGE RACK (22"x48")	INTERMETRO	HP2248PDMB	KEC	KEC	714	
734D	1	DRYING RACK (24"x48")	INTERMETRO	CFA48DR	KEC	KEC	734D	METROMAX - KIT INCLUDES (4) #MX74P, (2) #MX2448G, (2) #M4F2448, (2) #RPMX48-CBEAM, (2) #DR48S, AND (1) #XTR2448XE
734DM	2	STAINLESS STEEL SIDE PANEL (24"Wx68"H WITH HEMMED EDGE)	ATLANTA CUSTOM FABRICATORS	3ACF131	KEC	KEC	734Dd	INSTALL WITH HEMMED EDGE FACING AWAY FROM SHELVING UNIT
1100a	1	STAINLESS STEEL BACK PANEL (33"Wx80"H WITH HEMMED EDGE)	ATLANTA CUSTOM FABRICATORS	3ACF163	KEC	KEC	1100a	MOUNT TO POSTS WITH HARDWARE BY INTERMETRO - HEMMED EDGE FACING AWAY FROM BREADING OR FILLET TABLE
1100c	2	STAINLESS STEEL BACK PANEL (45"Wx80"H WITH HEMMED EDGE)	ATLANTA CUSTOM FABRICATORS	3ACF337	KEC	KEC	1100c	MOUNT TO POSTS WITH HARDWARE BY INTERMETRO - HEMMED EDGE FACING AWAY FROM BREADING OR FILLET TABLE
1104a	1	FLAT PLEXIGLASS PANEL (1/4"x41 3/4"x14 3/4")	CUSTOM FABRICATION		KEC	KEC	1104a	MOUNTED BETWEEN 18"x42" AND 30"x42" SHELVES AT VEGGIE PREP AREA WITH CLIPS BY INTERMETRO
1104b	1	FLAT PLEXIGLASS PANEL (1/4"x47 3/4"x14 3/4")	CUSTOM FABRICATION		KEC	KEC	1104b	MOUNTED BETWEEN 18"x48" AND 30"x48" SHELVES AT VEGGIE PREP AREA WITH CLIPS BY INTERMETRO
1114	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (48")	INTERMETRO	DD9528	KEC	KEC	1114	MOUNT TO UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1116	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (60")	INTERMETRO	DD9775D	KEC	KEC	1116	MOUNT TO UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1119	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (90")	INTERMETRO	DD9775G	KEC	KEC	1119	MOUNT TO UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1121G	1	TRAY SLIDES (21"D)	INTERMETRO	DD9514B-K4	KEC	KEC	1121G	METROSEAL GRAY - INSTALL BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER
1131C	2	PULL OUT WORK SURFACE (18"x30")	INTERMETRO	SL-POW2136-30	KEC	KEC	1131C	MOUNT UNDERNEATH 21"x36" CANTILEVERED SHELF
1133C	2	PULL OUT WORK SURFACE (18"x42")	INTERMETRO	SL-POW2148-42	KEC	KEC	1133C	MOUNT UNDERNEATH 21"x48" CANTILEVERED SHELF
1163	1	GARMENT HANGER TUBE WITH BRACKETS (24"x42")	INTERMETRO	AT4224NC	KEC	KEC	1163	MOUNT TO BOTTOM OF WIRE SHELF
1164	1	GARMENT HANGER TUBE WITH BRACKETS (24"x48")	INTERMETRO	AT4824NC	KEC	KEC	1164	MOUNT TO BOTTOM OF WIRE SHELF
1204	1	CANTILEVERED SHELVING (90" VEGGIE PREP KIT)	INTERMETRO		KEC	KEC	1204	METROSEAL GRAY - WITH 86" UPRIGHTS, 2 TIERS, AND SHELF DIVIDERS
1216CC	1	CANTILEVERED SHELVING (21"x60" CATERING WORKSTATION KIT)	INTERMETRO		KEC	KEC	1216CC	METROSEAL GRAY - WITH 86" UPRIGHTS, 21"x60" TOP TIER, 18"x60" SECOND TIER, 18" DEEP SHELF DIVIDERS, 21"x60" WORK SURFACE, AND (2) 21"x60" UNDERSHELVES
1224D	1	CANTILEVERED SHELVING (30"x48" DELIVERY WORKSTATION KIT)	INTERMETRO		KEC	KEC	1224D	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x48" TOP TIER, 18"x48" SECOND TIER, 30"x48" WORK SURFACE, AND (2) 30"x48" UNDERSHELVES
1226	1	CANTILEVERED SHELVING (30"x60" WORK SURFACE KIT)	INTERMETRO		KEC	KEC	1226	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x60" TOP TIER, 18"x60" SECOND TIER, 18" DEEP SHELF DIVIDERS, 30"x60" WORK SURFACE, AND 30"x60" UNDERSHELF
1226D	1	CANTILEVERED SHELVING (30"x60" DELIVERY WORKSTATION KIT)	INTERMETRO		KEC	KEC	1226D	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x60" TOP TIER, 18"x60" SECOND TIER, 30"x60" WORK SURFACE, AND (2) 30"x60" UNDERSHELVES
1241A	1	CANTILEVERED SHELVING (30"x30" OVERHEAD ADD)	INTERMETRO		KEC	KEC	1241A	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x30" TOP TIER, 18"x30" SECOND TIER, AND 18" DEEP SHELF DIVIDER
1241F	1	CANTILEVERED SHELVING (30"x30" OVERHEAD KIT - SOLID)	INTERMETRO		KEC	KEC	1241F	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x30" TOP TIER, 18"x30" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDER
1243F	1	CANTILEVERED SHELVING (30"x42" OVERHEAD KIT - SOLID)	INTERMETRO		KEC	KEC	1243F	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x42" TOP TIER, 18"x42" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1243FA	1	CANTILEVERED SHELVING (30"x42" OVERHEAD ADD - SOLID)	INTERMETRO		KEC	KEC	1243FA	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x42" TOP TIER, 18"x42" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1244	1	CANTILEVERED SHELVING (30"x48" OVERHEAD KIT)	INTERMETRO		KEC	KEC	1244	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x48" TOP TIER, 18"x48" SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1246A	1	CANTILEVERED SHELVING (30"x60" OVERHEAD ADD)	INTERMETRO		KEC	KEC	1246A	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x60" TOP TIER, 18"x60" SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1246S	1	CANTILEVERED SHELVING (30"x60" OVERHEAD KIT)	INTERMETRO		KEC	KEC	1246S	METROSEAL GRAY - WITH 86" UPRIGHTS AND 30"x60" TOP TIER
1261H	1	CANTILEVERED SHELVING (5T 21"x30" DRY STORAGE KIT)	INTERMETRO		KEC	KEC	1261H	METROSEAL GRAY - WITH 86" UPRIGHTS AND (5) 21"x30" WIRE SHELVES
1261HA	1	CANTILEVERED SHELVING (5T 21"x30" DRY STORAGE ADD)	INTERMETRO		KEC	KEC	1261HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X30" WIRE SHELVES
1262	3	CANTILEVERED SHELVING (4T 21"x36" DRY STORAGE KIT)	INTERMETRO		KEC	KEC	1262	METROSEAL GRAY - WITH 76" UPRIGHTS AND (4) 21"x36" WIRE SHELVES
1262HA	1	CANTILEVERED SHELVING (5T 21"x36" DRY STORAGE ADD)	INTERMETRO		KEC	KEC	1262HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X36" WIRE SHELVES
1263	2	CANTILEVERED SHELVING (4T 21"x42" DRY STORAGE KIT)	INTERMETRO		KEC	KEC	1263	METROSEAL GRAY - WITH 76" UPRIGHTS AND (4) 21"x42" WIRE SHELVES
1263A	3	CANTILEVERED SHELVING (4T 21"x42" DRY STORAGE ADD)	INTERMETRO		KEC	KEC	1263A	METROSEAL GRAY - WITH 76" UPRIGHT AND (4) 21"x42" WIRE SHELVES
1263HA	2	CANTILEVERED SHELVING (5T 21"x42" DRY STORAGE ADD)	INTERMETRO		KEC	KEC	1263HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X42" WIRE SHELVES
1264A	3	CANTILEVERED SHELVING (4T 21"x48" DRY STORAGE ADD)	INTERMETRO		KEC	KEC	1264A	METROSEAL GRAY - WITH 76" UPRIGHT AND (4) 21"x48" WIRE SHELVES
1264H	2	CANTILEVERED SHELVING (5T 21"x48" DRY STORAGE KIT)	INTERMETRO		KEC	KEC	1264H	METROSEAL GRAY - WITH 86" UPRIGHTS AND (5) 21"x48" WIRE SHELVES
1282WH	1	CANTILEVERED SHELVING (5T 21"x36" WALK-IN KIT WITH FEET)	INTERMETRO		KEC	KEC	1282WH	METROSEAL GRAY - WITH 86" UPRIGHTS, (5) 21"x36" WIRE SHELVES, AND FLANGED FEET
1300d	6	VERTICAL SHELF DIVIDER (24"Dx21"H)	INTERMETRO	DD24K4-21H	KEC	KEC	1300d	METROSEAL GRAY - MOUNT TO SHELF - NOT SHOWN ON PLAN
1320	1	FLOOR SHELF UNIT (74" POST, 18"x24")	INTERMETRO		KEC	KEC	1320	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1320FJ	2	JUICER WORK TABLE (18"x24")	INTERMETRO		KEC	KEC	1320FJ	WITH (2) SOLID SHELVES AND 27 1/2" LEGS - ORDER (2) #1824FS AND (4) #27PK4
1321	1	FLOOR SHELF UNIT (74" POST, 18"x30")	INTERMETRO		KEC	KEC	1321	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1323HW	3	FREEZER FLOOR SHELF UNIT (86" POST, 18"x42")	INTERMETRO		KEC	KEC	1323HW	METROSEAL GRAY - (1) #1842NK4, (4) #DD9807B, (4) #86PK4, AND (4) #9993S
1330	2	FLOOR SHELF UNIT (74" POST, 24"x24")	INTERMETRO		KEC	KEC	1330	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1331	1	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO		KEC	KEC	1331	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1333	2	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO		KEC	KEC	1333	METROSEAL GRAY - 4 SHELVES
1333N	1	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO		KEC	KEC	1333N	METROSEAL GRAY - (3) #2442NK4, (4) #74PK4, AND (1) #SF54N3K4
1334	1	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO		KEC	KEC	1334	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1334B	3	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO		KEC	KEC	1334B	METROSEAL GRAY - 3 SHELVES & BOTTOM DUNNAGE SHELF - LOCATED IN REFUSE ENCLOSURE STORAGE ROOM
1335	1	FLOOR SHELF UNIT (74" POST, 24"x54")	INTERMETRO		KEC	KEC	1335	METROSEAL GRAY - 4 SHELVES
1341U	1	WALL SHELF KIT (UTILITY)	INTERMETRO		KEC	KEC	1341U	METROSEAL GRAY - (1) 24"x48" SHELF + MOUNTING COMPONENTS, (1) 48" GRID + UTILITY ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1341V	1	WALL SHELF KIT (VEGGIE PREP)	INTERMETRO		KEC	KEC	1341V	METROSEAL GRAY - (1) 24"x48" SHELF + MOUNTING COMPONENTS, (1) 48" GRID + VEGGIE PREP ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1371F	1	SOLID WALL SHELF (18"x30")	INTERMETRO		KEC	KEC	1371F	METROSEAL GRAY - SOLID SHELF - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1372	1	WALL SHELF (18"x36")	INTERMETRO		KEC	KEC	1372	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1372F	1	SOLID WALL SHELF (18"x36")	INTERMETRO		KEC	KEC	1372F	METROSEAL GRAY - SOLID SHELF - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1374	2	WALL SHELF (18"x48")	INTERMETRO		KEC	KEC	1374	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1380	1	WALL SHELF (24"x24")	INTERMETRO		KEC	KEC	1380	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1381	6	WALL SHELF (24"x30")	INTERMETRO		KEC	KEC	1381	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1381I	4	INVERTED WALL SHELF KIT (24"x30")	INTERMETRO		KEC	KEC	1381I	METROSEAL GRAY - (1) 24"x30" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, AND (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382	4	WALL SHELF (24"x36")	INTERMETRO		KEC	KEC	1382	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382I	2	INVERTED WALL SHELF KIT (24"x36")	INTERMETRO		KEC	KEC	1382I	METROSEAL GRAY - (1) 24"x36" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, AND (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1383	2	WALL SHELF (24"x42")	INTERMETRO		KEC	KEC	1383	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1383I	3	INVERTED WALL SHELF KIT (24"x42")	INTERMETRO		KEC	KEC	1383I	METROSEAL GRAY - (1) 24"x42" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, AND (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1384	3	WALL SHELF (24"x48")	INTERMETRO		KEC	KEC	1384	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1384I	4	INVERTED WALL SHELF KIT (24"x48")	INTERMETRO		KEC	KEC	1384I	METROSEAL GRAY - (1) 24"x48" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, AND (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1385	2	WALL SHELF (24"x54")	INTERMETRO		KEC	KEC	1385	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1385I	1	INVERTED WALL SHELF KIT (24"x54")	INTERMETRO		KEC	KEC	1385I	METROSEAL GRAY - (1) 24"x54" SHELF, (1) 72" TRACK, (2) 12" UPRIGHTS, AND (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION

EQUIPMENT SCHEDULE (FUTURE)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	ITEM NO.	GENERAL REMARKS
F180	1	FUTURE ORDER REGISTER	NCR	P1230	IT	IT	F180	PROVIDED BY CFA IT
F180a	1	FUTURE RADIAL ARM	INNOVATIVE	7000	IT	IT	F180a	USED TO MOUNT ORDER MONITORS
F183	1	FUTURE ORDER MONITOR	RADIANT	KITCHEN PRODUCTION SYSTEM	IT	IT	F183	PROVIDED BY CFA IT
F183a	1	FUTURE RADIAL ARM	INNOVATIVE	7000	IT	IT	F183a	USED TO MOUNT ORDER MONITORS
F300c	2	FUTURE SINGLE-SPINDLE MIXER	HAMILTON BEACH	HMD300M-CFA	KEC	KEC	F300c	
F300d	1	FUTURE TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS	7200-NCH	KEC	KEC	F300d	RIGHT HAND MOUNT - ORDER (1) #3FRA112
F300f	1	FUTURE DOUBLE SLIMLINE COOKIE DISPENSER	SERVER	88847	KEC	KEC	F300f	
F300X	1	FUTURE DOUBLE BARREL ICE CREAM MACHINE	TAYLOR	0793338WDC (AIR COOLED)	KEC	KEC	F300X	
F440CT	1	FUTURE ICE BATH BREADING TABLE	DUKE	BSTA-120-US	KEC	KEC	F440CT	LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON DRAWINGS
F444D	1	FUTURE DOUBLE THAWING CABINET (52 1/8")	TRAULSEN	RE232N-ZCF02	KEC	KEC	F444D	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS
F503T	1	FUTURE EGG STATION	ANTUNES	ES-600R 9300657	KEC	KEC	F503T	
F505Va	1	FUTURE VECTOR OVEN STAND	ALTO-SHAAM	5034382-0	KEC	KEC	F505Va	INCLUDES GASKET FOR STACKING VECTOR OVENS
F505VT	1	FUTURE VECTOR OVEN	ALTO-SHAAM	VMC-H3H 106224	KEC	KEC	F505VT	HINGE RIGHT
F522	1	FUTURE SINGLE OPEN FRYER	HENNY PENNY	CFE-410	KEC	KEC	F522	
F523	1	FUTURE PRESSURE FRYER	HENNY PENNY	PFE-500	KEC	KEC	F523	

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FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
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PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-802

EQUIPMENT SCHEDULE (ELECTRICAL)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	VOLT	PH	KW	AMP	HP	PLUG TYPE	ITEM NO.	ELECTRICAL REMARKS
180	5	ORDER REGISTER	120	1		0.70		5-20P	180	
182	3	RECEIPT PRINTER	24	1		1.80		5-20P	182	120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	7	LABEL PRINTER	24	1		1.70		5-20P	182L	120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	15	ORDER MONITOR	120	1		0.13		5-20P	183	
184	1	IPAD	120	1	0.120	1.00		5-20P	184	
184T	1	ITIMER	120	1	0.120	1.00		5-20P	184T	
190	1	DRIVE-THRU VIDEO MONITOR	120	1		0.80		5-20P	190	
211B	5	FLY LIGHT	120	1	0.013	0.11		5-20P	211B	
211C	3	FLY LIGHT	120	1	0.013	0.11		5-20P	211C	CLOCK STYLE RECEPTACLE REQUIRED - RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
269	1	FIRE SUPPRESSION SYSTEM	120	1				DIRECT CONNECTION	269	FED FROM #CFA-T500 PANEL - VERIFY AMPS
270	1	FIRE SUPPRESSION SYSTEM	120	1				DIRECT CONNECTION	270	FED FROM #CFA-T500 PANEL - VERIFY AMPS
300a	1	MILKSHAKE BASE DISPENSER	120	1		2.00		5-15P	300a	
300X	1	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	1.50/1.50	15-30P/15-20P	300X	PROVIDED WITH HUBBELL #HBL8432C AND #HBL8421C ANGLE PLUGS
305	2	TEA BREWER	120	1	1.650	13.80		5-15P	305	
308	1	SINGLE COFFEE MAKER	208	1	4.000	19.20		L14-30P	308	
310	3	DOUBLE LEMONADE BUBBLER	120	1		8.50	0.10	5-15P	310	
315W	4	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		6.00		5-15P/5-15P	315W	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	4	TURBO CARBONATOR	115	1		6.20		5-20P	320	
363H	1	HIGH-TEMP UPRIGHT DISHWASHER	208	3		53.68		DIRECT CONNECTION	363H	
380	1	ICE MACHINE	115	1	0.600	5.00		5-15P	380	PROVIDED WITH 6' CORD AND PLUG
380a	2	ICE BIN SANITATION SYSTEM	120	1	0.010			5-15P	380a	SHARES DUPLEX WITH (1) ICE MACHINE
380C	1	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	208	3	3.100	14.20		DIRECT CONNECTION	380C	
380CD	2	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	208	3	3.600	15.70		DIRECT CONNECTION	380CD	
380D	2	ICE MACHINE	115	1	0.368	5.00		5-15P	380D	PROVIDED WITH 6' CORD AND PLUG
400	2	SINGLE UPRIGHT FREEZER (30")	115	1		9.40	0.50	5-15P	400	
410N	1	WALK-IN FREEZER	120	1		1.26		DIRECT CONNECTION	410N	REFER TO LIGHTING PLAN
410Na	1	WALK-IN FREEZER CONDENSER	208	3		12.20	3.50	DIRECT CONNECTION	410Na	
410Nb	1	WALK-IN FREEZER EVAPORATOR	208	1		1.50/13.70		DIRECT CONNECTION	410Nb	POWER FED FROM CONDENSER
420	5	SINGLE UNDERCOUNTER REFRIGERATOR (27")	115	1		7.50	0.25	5-15P	420	
420L	1	SINGLE UNDERCOUNTER REFRIGERATOR (27")	115	1		7.50	0.25	5-15P	420L	
421	1	DOUBLE UNDERCOUNTER REFRIGERATOR (48")	115	1		7.50	0.25	5-15P	421	
422T	1	REFRIGERATED EQUIPMENT STAND (48")	115	1		6.50	0.33	L5-15P (BY EC)	422T	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED WITH 9' CORD
431T	1	DOUBLE WORKTOP REFRIGERATOR (48")	115	1		7.50	0.25	L5-20P (BY EC)	431T	EC TO CHANGE PLUG TO TWIST LOCK
432T	1	DOUBLE WORKTOP REFRIGERATOR (60")	115	1		7.50	0.25	L5-20P (BY EC)	432T	EC TO CHANGE PLUG TO TWIST LOCK
439D	1	DUAL-SIDED COLD RAIL (48")	115	1		3.50	0.25	5-15P	439D	SUPPLIED WITH 9' CORD AND PLUG
440CT	2	ICE BATH BREADING TABLE	120	1		1.00		L5-15P (BY EC)	440CT	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED WITH 10' CORD AND PLUG
441	1	SALAD PREP TABLE (90")	115	1		7.70	0.50	L5-15P	441	PROVIDED WITH TWIST LOCK PLUG
442WCT	1	SINGLE UPRIGHT REFRIGERATOR (30")	115	1		7.30	0.33	L5-15P (BY EC)	442WCT	EC TO CHANGE PLUG TO TWIST LOCK
443GT	1	SINGLE UPRIGHT REFRIGERATOR (24")	115	1		8.00	0.33	L5-15P (BY EC)	443GT	EC TO CHANGE PLUG TO TWIST LOCK
444D	3	DOUBLE THAWING CABINET (52 1/8")	115	1		16.00	0.50	DIRECT CONNECTION	444D	GC TO INSTALL LIQUID TIGHT FLEX CONDUIT
449N	1	WALK-IN COOLER	120	1		0.76		DIRECT CONNECTION	449N	REFER TO LIGHTING PLAN
449Na	1	WALK-IN COOLER CONDENSER	208	3		7.20	1.00	DIRECT CONNECTION	449Na	
449Nb	1	WALK-IN COOLER EVAPORATOR	208	1	0.110	1.00		DIRECT CONNECTION	449Nb	POWER FED FROM CONDENSER
500A	2	VERTICAL CONTACT TOASTER	120	1	1.800	15.00		5-15P	500A	
500B	1	RADIANT TOASTER	208	1	5.500	24.00		L6-30P	500B	FRANKE TOASTER TABLE CIRCUITS #3 AND #4 - PROVIDED WITH TWIST LOCK PLUG
503T	2	EGG STATION	208	1	2.500	12.50		L6-20P	503T	PROVIDED WITH TWIST LOCK PLUG
505VT	3	VECTOR OVEN	208	3	7.900	22.00		L15-30P (BY EC)	505VT	EC TO CHANGE PLUG TO TWIST LOCK
522	1	SINGLE OPEN FRYER	208	3	22.000	62.00		PIN & SLEEVE	522	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS
522A	1	DOUBLE OPEN FRYER	208	3	22.000/22.000	62.00/62.00		PIN & SLEEVE	522A	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	6	PRESSURE FRYER	208	3	13.500	38.00		15-50P	523	PROVIDED WITH 6' CORD AND PLUG
524	2	DUAL SIDE CLAMSHELL GRILL	208	3	9.000	24.10/28.20/23.10		15-50P	524	PROVIDED WITH 5' CORD AND PLUG
560	2	FRY HOLDING STATION	120	1	1.900	15.40		DIRECT CONNECTION	560	
562A	2	HIGH DENSITY HOT HOLDING TOWER	120	1	1.800	16.00		5-20P	562A	PROVIDED WITH 8' CORD AND PLUG
563DL	1	DOUBLE TIER SANDWICH SLIDE (26")	120	1	1.090	9.13		5-15P	563DL	6' CORD AND PLUG
563S	1	SINGLE TIER SANDWICH SLIDE (26")	120	1	0.600	5.00		5-15P	563S	6' CORD AND PLUG
564BD	2	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	120	1	0.660	5.50		5-15P	564BD	
565C	1	FOOD COOKER/WARMER	115	1	1.200	12.50		5-15P	565C	
580H	2	VISUAL HOT HOLDING CABINET (5x2)	120	1	1.920	16.00		5-20P	580H	
592	1	RETHERMALIZER	208	3	8.000	22.00		15-30P	592	PROVIDED WITH 6' CORD AND ANGLE PLUG
600T	1	MIXER	120	1		8.00	0.50	L5-20P (BY EC)	600T	EC TO CHANGE PLUG TO TWIST LOCK
607	1	COUNTERTOP LEMON JUICER	115	1		4.30	0.25	5-15P	607	
669	1	OFFICE SAFE	120	1				5-20P	669	
672	4	DIGITAL MENU BOARD (50")	120	1				5-15P	672	
675	1	STATUS BOARD (50")	120	1				5-15P	675	
F180	1	FUTURE ORDER REGISTER	120	1		0.70		5-20P	F180	
F183	1	FUTURE ORDER MONITOR	120	1		0.13		5-20P	F183	
F300X	1	FUTURE DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	1.50/1.50	15-30P/15-20P	F300X	PROVIDED WITH HUBBELL #HBL8432C AND #HBL8421C ANGLE PLUGS
F440CT	1	FUTURE ICE BATH BREADING TABLE	120	1		1.00		L5-15P (BY EC)	F440CT	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED WITH 10' CORD AND PLUG
F444D	1	FUTURE DOUBLE THAWING CABINET (52 1/8")	115	1		16.00	0.50	DIRECT CONNECTION	F444D	GC TO INSTALL LIQUID TIGHT FLEX CONDUIT
F503T	1	FUTURE EGG STATION	208	1	2.500	12.50		L6-20P	F503T	PROVIDED WITH TWIST LOCK PLUG
F505VT	1	FUTURE VECTOR OVEN	208	3	7.900	22.00		L15-30P (BY EC)	F505VT	EC TO CHANGE PLUG TO TWIST LOCK
F522	1	FUTURE SINGLE OPEN FRYER	208	3	22.000	62.00		PIN & SLEEVE	F522	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS
F523	1	FUTURE PRESSURE FRYER	208	3	13.500	38.00		15-50P	F523	PROVIDED WITH 6' CORD AND PLUG

EQUIPMENT SCHEDULE (PLUMBING)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	HW	CW	TW	FW	IW	DW	ITEM NO.	PLUMBING REMARKS
111	1	STAINLESS STEEL UNDER COUNTER MOUNT HAND SINK						1 1/2"	111	
305	2	TEA BREWER				3/8"			305	
308	1	SINGLE COFFEE MAKER				3/8"			308	
315W	4	10-HEAD BEVERAGE DISPENSER WITH ICE BIN					3/4"		315W	
316	1	CO2 TANK							316	
318a	1	12-STOP WATER MANIFOLD PANEL				3/4"			318a	RE: PLUMBING SHEETS FOR DETAILS
350	1	WATER FILTRATION SYSTEM - TYPE A		3/4"					350	RE: PLUMBING SHEETS FOR DETAILS
355F	1	SENSOR FAUCET (DECK MOUNTED HAND SINK)	1/2"	1/2"					355F	
360	5	HAND SINK						1 1/2"	360	
360D	1	DUMP SINK					1 1/2"		360D	
360DF	1	FAUCET (DUMP SINK)	1/2"	1/2"					360DF	
360E	1	EMERGENCY EYEWASH STATION			1/2"				360E	MOUNT TO WALL BETWEEN 33" AND 45" AFF
360F	5	SENSOR FAUCET (WALL MOUNTED HAND SINK)	1/2"	1/2"					360F	PROVIDED WITH #THP3094 NOZZLE
363H	1	HIGH-TEMP UPRIGHT DISHWASHER		3/4"			1 1/2"		363H	
365	1	4 COMPARTMENT UTENSIL SINK					1 1/2"		365	(4) IW - PC TO PROVIDE (4) FISHER #22209 DRAINS WITH FLAT STRAINERS - RE: PLUMBING SHEETS FOR STANDOFF DETAIL
365F	1	UTENSIL SINK FAUCET	1/2"	1/2"					365F	(2) HW, (2) CW
367	1	DOUBLE BOWL VEGETABLE PREP SINK					1 1/2"		367	(2) IW - PC TO PROVIDE (2) FISHER #22209 DRAINS WITH FLAT STRAINERS - RE: PLUMBING SHEETS FOR STANDOFF DETAIL
367F	1	FAUCET FOR VEGETABLE PREP SINK	1/2"	1/2"					367F	
368FW	2	FILTERED WATER FAUCET (WALL MOUNTED)				1/2"			368FW	(2) FW
370	1	RECESSED MOP SINK						3"	370	
370F	1	MOP SINK FAUCET	1/2"	1/2"					370F	
380	1	ICE MACHINE				1/2"	3/4"		380	
380D	2	ICE MACHINE				1/2"	3/4"		380D	
381	1	ICE BIN (30"Wx64"H)					1"		381	
384	1	ICE BIN (48"Wx69"H)					1"		384	
410Nb	1	WALK-IN FREEZER EVAPORATOR					3/4"		410Nb	
449Nb	1	WALK-IN COOLER EVAPORATOR					3/4"		449Nb	
592	1	RETHERMALIZER		1/2"			1 1/4"		592	WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER

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OLDHAM VILLAGE

SW CORNER US WY 50
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
PRINTED FOR

PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

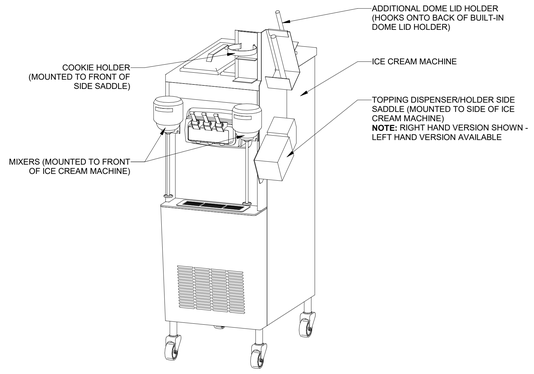
CONSULTANT PROJECT #

DATE 11/18/2024

DRAWN BY SAM

SHEET
EQUIPMENT SCHEDULE

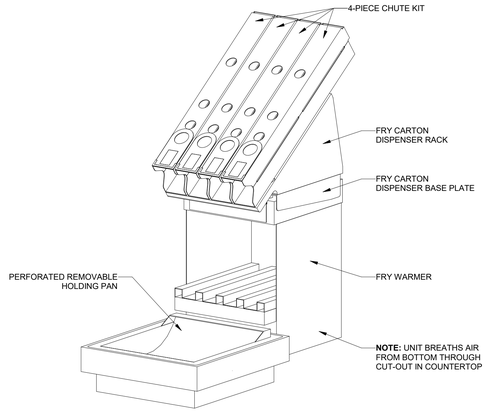
SHEET NUMBER
K-803



1 ICE CREAM MACHINE & ACCESSORIES

SCALE: N.T.S.

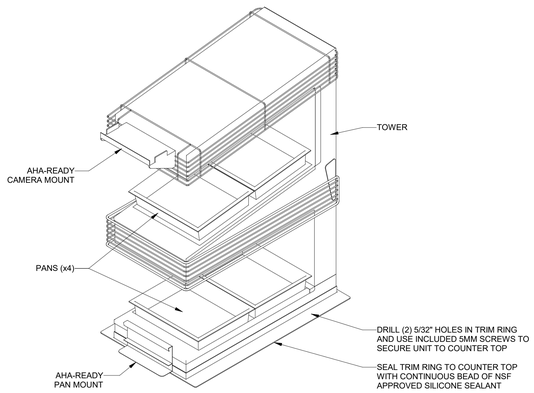
NOTE:
- MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT
- HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF THE PERFORATED PAN
- CUT-OUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE



2 FRY PACKAGING & FRY DUMP

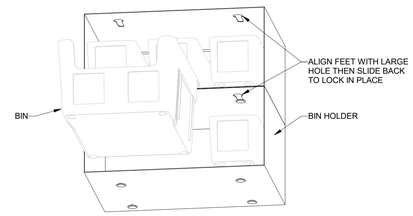
SCALE: N.T.S.

NOTE:
- MARK AND DRILL (2) 5/32" DIA. (3.8mm) HOLES TO FASTEN UNIT TO COUNTERTOP
- INSTALL (2) 5mm SCREWS (PROVIDED) TO SECURE UNIT TO COUNTERTOP
- SEAL TRIM RING TO COUNTERTOP WITH CLEAR NSF APPROVED SILICONE SEALENT (PROVIDED)



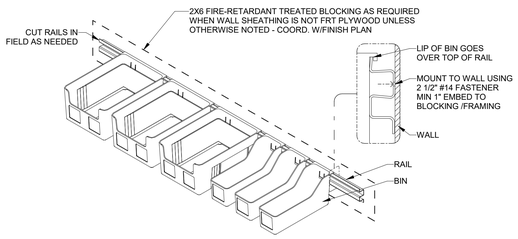
3 HIGH DENSITY HOT HOLD TOWER

SCALE: N.T.S.



4 BIN HOLDER WITH BINS

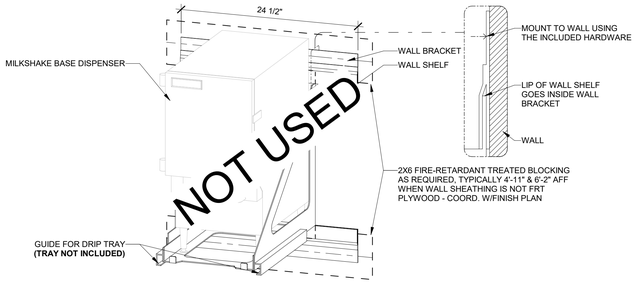
SCALE: N.T.S.



NOTE:
- WHEN NO BLOCKING IS PRESENT DUE TO PIN & SLEEVE BOXES, RAILS MUST BE MOUNTED TO STUDS - ENSURE THAT MOUNTING HARDWARE DOES NOT PENETRATE BACK OF PIN & SLEEVE
- BIN SIZES & QUANTITIES WILL VARY - SEE K-SHEETS FOR SPECIFICS & ADJUST BIN ARRANGEMENT IF NEEDED TO AVOID CONFLICTS

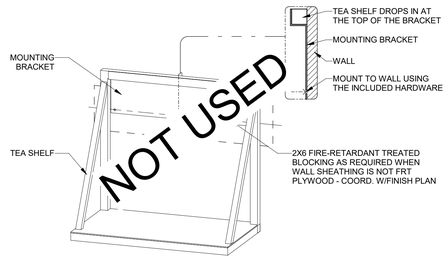
5 RAIL & BINS

SCALE: N.T.S.



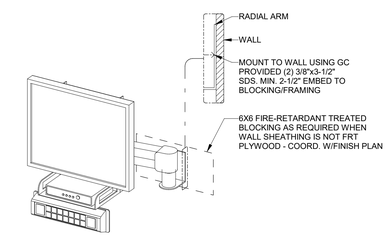
6 MILKSHAKE BASE DISPENSER & SHELF

SCALE: N.T.S.



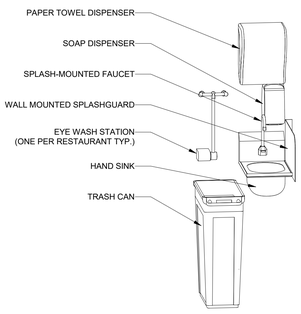
7 TEA SHELF

SCALE: N.T.S.



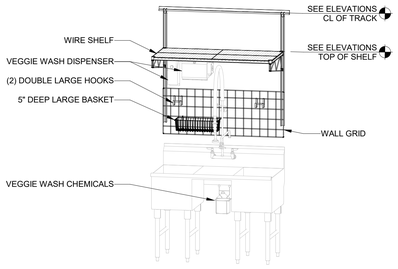
8 KPS ARM

SCALE: N.T.S.



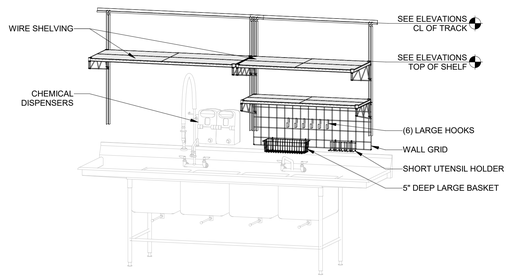
9 HAND SINK & ACCESSORIES

SCALE: N.T.S.



10 2-COMP VEGGIE PREP SINK SHELF & ACCESSORIES

SCALE: N.T.S.



11 4 COMP UTILITY SINK SHELVES & ACCESSORIES

SCALE: N.T.S.

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OLDHAM VILLAGE

SW CORNER US WY 50
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR
RELEASE: 24.08
PRINTED FOR
PERMIT

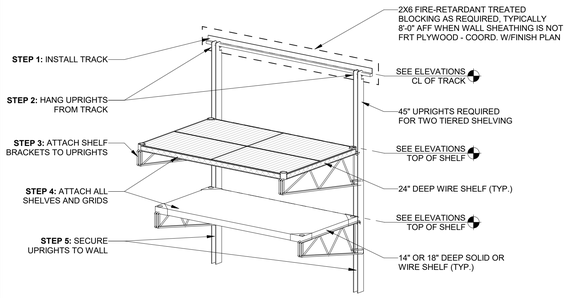
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

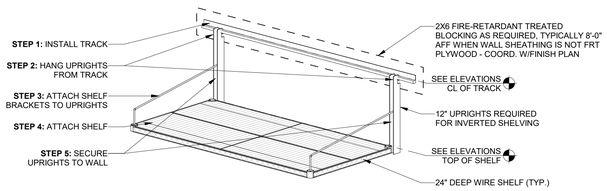
SHEET
KITCHEN DETAILS

SHEET NUMBER
K-901



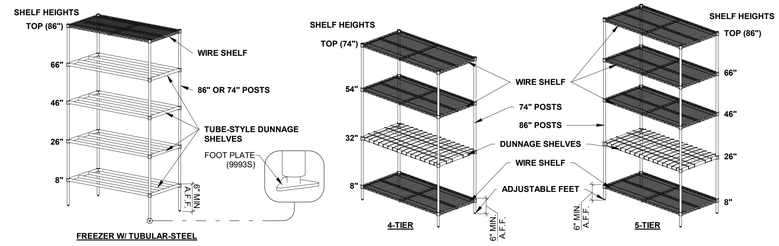
1 SHELVING INSTALL DETAIL: WALL MTD.

SCALE: N.T.S.



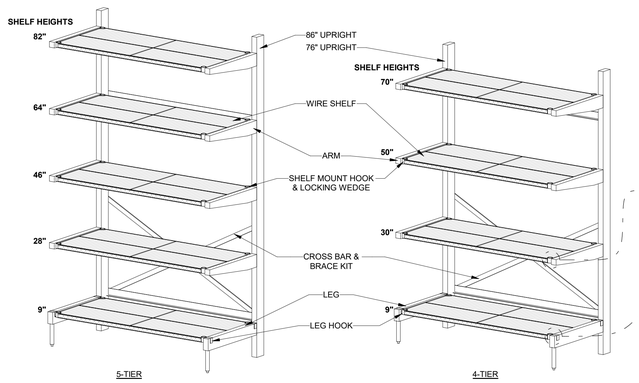
2 SHELVING INSTALL DETAIL: WALL MTD. - INVERTED

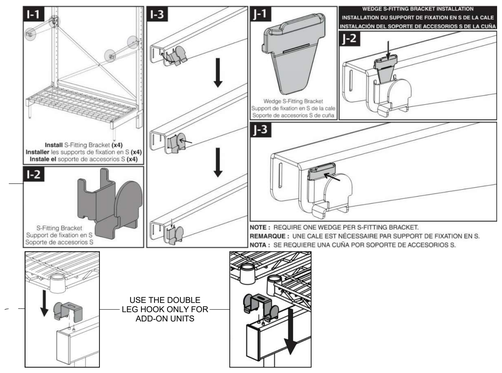
SCALE: N.T.S.

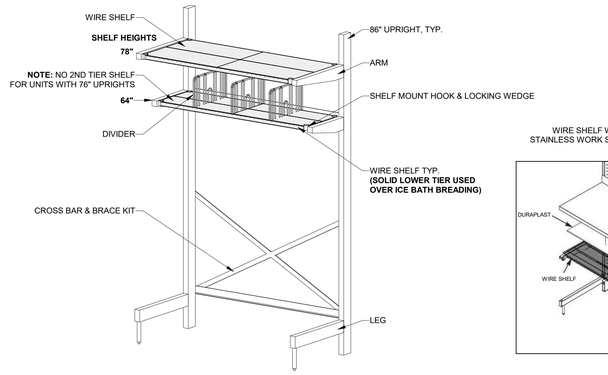


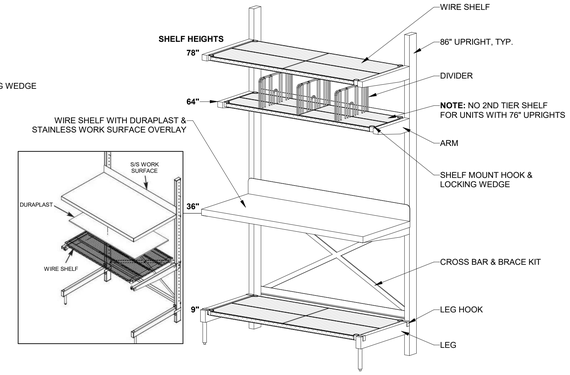
3 SHELVING DETAIL: FLOOR SHELVES

SCALE: N.T.S.









4 CANTILEVER - DRY STORAGE

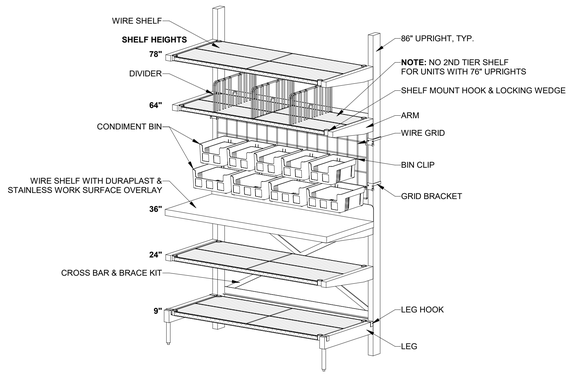
SCALE: N.T.S.

5 CANTILEVER SHELVING - OVERHEAD

SCALE: N.T.S.

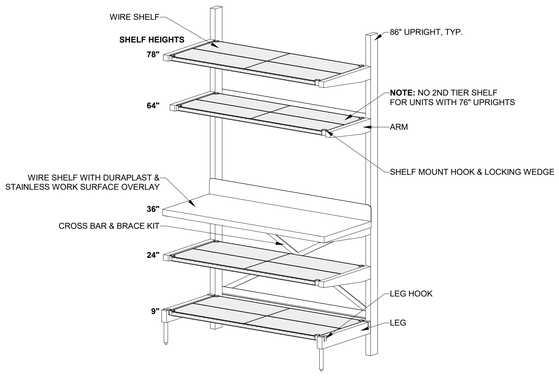
6 CANTILEVER SHELVING - WORK SURFACE

SCALE: N.T.S.



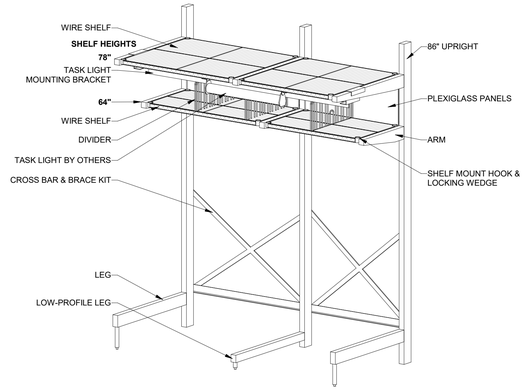
7 CANTILEVER SHELVING - CATERING WORKSTATION

SCALE: N.T.S.



8 CANTILEVER SHELVING - DELIVERY WORKSTATION

SCALE: N.T.S.



9 CANTILEVER SHELVING - VEGGIE PREP

SCALE: N.T.S.

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Foodservice Equipment, Supplies and Design

CHICK-FIL-A
OLDHAM VILLAGE
SW CORNER US WY 50
LEE'S SUMMIT, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR
RELEASE: 24.08
PRINTED FOR
PERMIT

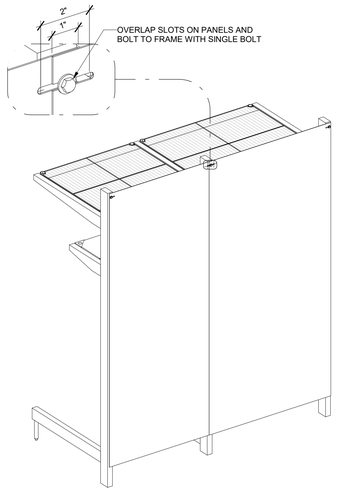
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

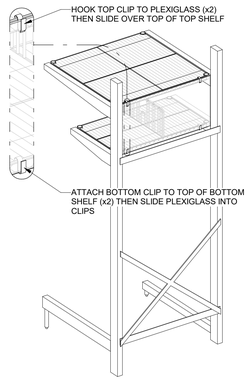
CONSULTANT PROJECT #
DATE 11/18/2024
DRAWN BY SAM

SHEET
KITCHEN DETAILS

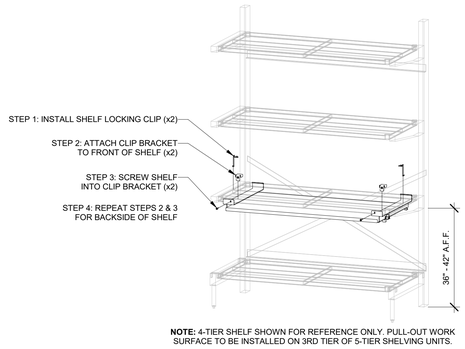
SHEET NUMBER
K-902



1 STAINLESS STEEL PANELS
SCALE: N.T.S.

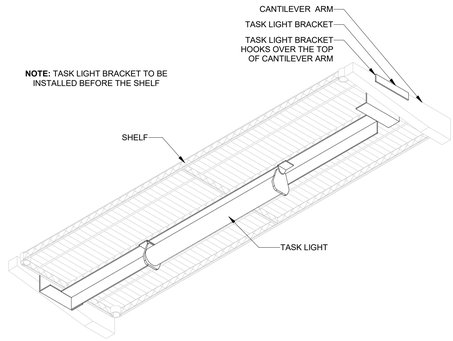


2 PLEXIGLASS PANELS
SCALE: N.T.S.

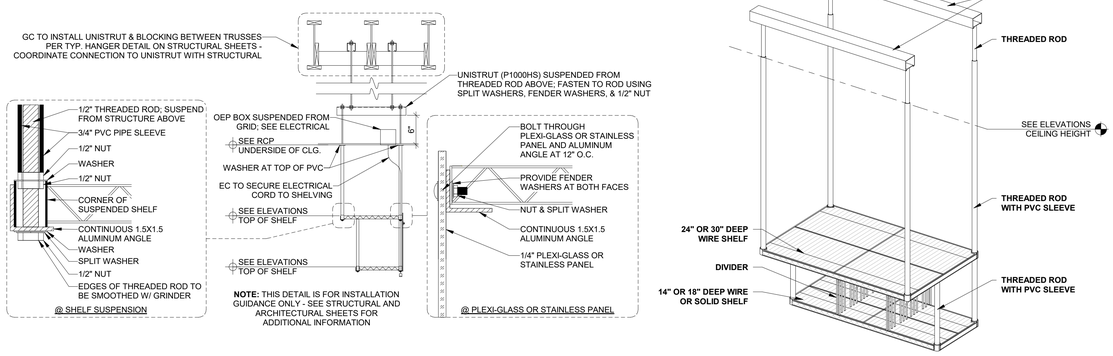


NOTE: 4-TIER SHELF SHOWN FOR REFERENCE ONLY. PULL-OUT WORK SURFACE TO BE INSTALLED ON 3RD TIER OF 5-TIER SHELVING UNITS.

3 PULL-OUT SHELF
SCALE: N.T.S.



4 TASK LIGHT
SCALE: N.T.S.



5 SUSPENDED SHELVING
SCALE: N.T.S.

* INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY - SEE MANUFACTURER DOCUMENTATION FOR FINAL INSTALLATION INSTRUCTIONS AND OTHER DETAILS

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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SHEET
KITCHEN DETAILS

SHEET NUMBER
K-903

FLOOR PLAN KEY	ELEVATION TAG	DECOR TAG
	---	1

WALL/ QUEUE KEY	STEEL LOW WALL, BY CHI 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY CHI 2.5" DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	WALL KEY REFERS TO CHI MANUF. PRODUCT ONLY.

SEATING & TABLE SCHEDULE

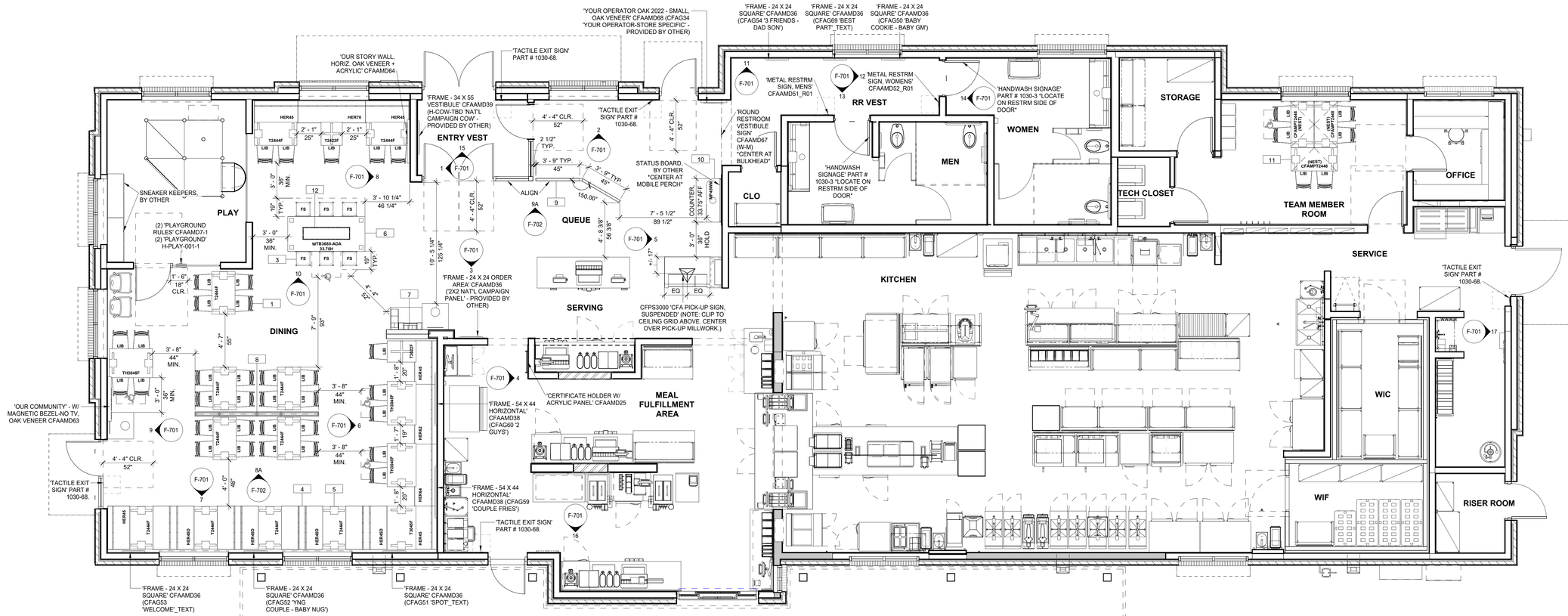
TABLE TOP STYLE	TABLE TOP QUANTITY	SEAT QUANTITY
2-TOP	2	4
4-TOP	15	60
6-TOP	1	6
	18	70

SEATING RATIOS

SEATING TO TABLE RATIO: 70 / 18 = 3.9
ACCESSIBLE TABLE RATIO: 4
NUMBER OF PARTIES: 18

STEEL KEY	CORE-DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

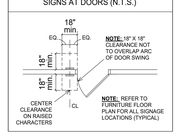
NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.



1 FURNITURE FLOOR PLAN
1/4" = 1'-0"

TACTILE SIGNAGE

TYP. LOCATION / CLEARANCE OF TACTILE SIGNS AT DOORS (N.T.S.)



Chick-fil-A

STORE #:	05248	BLDG SHELL:	P14 LSR BS
LOCATION:	SW Corner Hwy 50 & MO State Rte 291 Lee's Summit, MO		
NICKNAME:	Oldham Village FSU		
DESIGN:	BS	FDD SET: ---	CHECKED: KL
PROJECT MGR:	KRISTEN LEEP		
SALES MGR:	JULIA WOODWARD		
SET ISSUED DATE:	11/19/24		
DRAWING TITLE:	FURNITURE FLOOR PLAN		

Project Contacts

PLEASE CONTACT ONE OF THE FOLLOWING CHI TEAM MEMBERS TO ADDRESS CONCERNS YOU MAY HAVE:

CHARTER HOUSE HOLDINGS, LLC
200 N. Franklin Street | Zeeland, MI 49464
Phone: 616.399.6000 | Fax: 616.796.1199

Regional Sales Manager: Julia Woodward
Phone: 404.784.2960
Email: cfa@charter-house.com

Project Management Team:

Allison Marsh	Phone: 616.796.1159
Jami Fraser	Phone: 616.796.1178
Maddy Tessmer	Phone: 616.796.1152
Kristen Leep	Phone: 616.796.1188

Customer Service Inquiries:
Phone: 616.796.1020

CHI Project Log

DATE	#	DESCRIPTION	INITIALS
10.21.24		PERMIT - DRAFT	BS
11.07.24	1	PERMIT - PROGRESS	BS
11.18.24	2	PERMIT - FINAL	BS
00.00.00	3	---	---
00.00.00	4	---	---
00.00.00	5	---	---
00.00.00	6	---	---
00.00.00	7	---	---

FURNITURE SHEET INDEX

CONDIMENTS AND TRASH ARE NOTED FOR SPACE PLANNING PURPOSES. EXACT MODELS AND DETAILS OF THOSE ITEMS TO BE DETERMINED BY THE MILLWORK PROVIDER, CLAYTON FIXTURES (CFX).

BUILDING SHELL USED FOR FURNITURE PLANS PROVIDED BY SITE ADAPT ARCHITECT.
VERIFY DINING ROOM DIMENSIONS FOR FURNITURE & MESSAGING.

SEATING LAYOUT PROVIDED BY ARCHITECT. ARCHITECT IS RESPONSIBLE FOR SEATING PLAN MEETING CODE REQUIREMENTS (LOCAL OR OTHER)

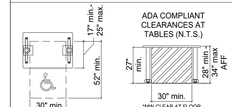
SEATING & DECOR KEY

1	LIBRARY CHAIR, STANDARD	7	METAL SQUARE 'C' SYMBOL, DOUBLE-SIDED (44 X 44)
2	NOT USED	8	STEEL LOW WALL
3	FARM STOOL - 22" HEIGHT	9	STREAMLINE QUEUE
4	HERITAGE BOOTH/ BANQUETTE	10	MOBILE PERCH *WALL MOUNT*
5	TABLES (TYP)	11	MULTI-PURPOSE TABLE
6	GATHERING TABLE, 6-TOP *ACCESSIBLE*	12	COKE FIXTURE

ACCESSIBILITY KEY

THESE PLANS, AS DRAWN, COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS OR RULES OF ANY LOCAL, COUNTY, STATE, FEDERAL, AND OTHER GOVERNMENTAL AUTHORITY AND ANY BUREAU OR DEPARTMENT THERE OF, WHICH MAY BE APPLICABLE INCLUDING, BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT AND THE REGULATIONS THERE UNDER.

TABLE CLEARANCES (N.T.S.)



MANEUVERING CLEARANCES AT DOORS (N.T.S.)

General Contractor Notes & Information

*CHARTER HOUSE HOLDINGS, L.L.C. / CHARTER -HOUSE INNOVATIONS / CHi

GENERAL CONSTRUCTION

1. ALL WORK, CONSTRUCTION, AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE INTERNATIONAL BUILDING CODE &/OR CURRENT APPLICABLE GOVERNING CODES ALONG WITH RULES, REGULATIONS, AND ORDINANCES GOVERNING THE PLACE OF CONSTRUCTION.
2. IT IS THE RESPONSIBILITY OF ALL PARTIES SUPPLYING LABOR OR MATERIAL OR BOTH, TO BRING TO THE ATTENTION OF THE PROJECT MANAGER & OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE CODE REQUIREMENTS AND THESE PLANS.
3. THE APPLICABLE CODES SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO: THE UNIFORM BUILDING CODE, BOCA NATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, UNIFORM ELECTRICAL CODE, UNIFORM MECHANICAL CODE, AND THE UNIFORM FIRE CODE.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK & MATERIALS IN ACCORDANCE WITH ALL LOCAL AND/OR CITY BUILDING CODES.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL AMERICANS WITH DISABILITIES ACT GUIDELINES, TO INCLUDE BUT NOT LIMITED TO TABLE TOP/BASE INSTALLATIONS, AISLE WAY CLEARANCES, AND QUEUE LINE AREA CLEARANCES.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COPYING & DISTRIBUTING CHARTER-HOUSE PLANS & DOCUMENTS TO ALL SUBCONTRACTORS INVOLVED.

DELIVERY OF PRODUCT

1. DAMAGED PRODUCT UPON RECEIPT MUST BE DOCUMENTED ON THE BILL OF LADING. MUST CONTACT PROJECT MANAGER IMMEDIATELY (616) 399-6000. FAILURE TO DOCUMENT DAMAGE & CONTACT CHi WILL ABSOLVE CHi FROM RESPONSIBILITY.
2. INSPECT THE EXTERIOR OF ALL PACKAGING & VERIFY BILL OF LADING. *CHECK FOR TEARS, CRUSHING, HOLES, ETC.... * COMPARE SHRINK-WRAP OR TAPE & WATCH FOR MULTIPLE KINDS OF WRAP OR DIFFERENT TAPE ON BOXES * LISTEN FOR RATTLING OR LOOSE PARTS DURING UNLOADING * WATCH FOR POSSIBLE WEIGHT DISCREPANCIES DURING UNLOADING.
3. IF YOU NOTICE ANY OF THE ABOVE, ASK FOR A JOINT INSPECTION & SPECIFY NOTATIONS ON THE CARRIER'S RECEIPT. IF THE DELIVERING PARTY REFUSES, INSIST ON A NOTATION OF WHAT YOU HAVE NOTICED & CALL THE CARRIER IMMEDIATELY UPON COMPLETING YOUR INSPECTION.
4. ALWAYS KEEP GOOD NOTES OF DATES, TIMES, AND PERSONS SPOKEN TO.
5. CONCEALED DAMAGE: * IF THE CARRIER'S RECEIPT HAS BEEN SIGNED OFF, AND DAMAGE IS NOTICED INSIDE OF THE PACKAGING, CALL THE CARRIER AND REQUEST INSPECTION IMMEDIATELY. ALSO NOTIFY YOUR CHi PROJECT MANAGER OR SHIPPING DEPT WITHIN 48 HOURS.
6. ANY OTHER CONCERNS OR QUESTIONS PLEASE CALL YOUR PROJECT MANAGER.
7. GENERAL CONTRACTOR AND/OR OWNER ARE RESPONSIBLE FOR PROTECTION OF PRODUCT WHILE IN THE PROCESS OF BEING INSTALLED. ANY PRODUCT DELIVERED IN GOOD CONDITION, BUT DAMAGED ON SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR OWNER.

NEW & REMODEL PROJECTS

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES. DO NOT SCALE OFF PLANS. FOR ADDITIONAL DIMENSIONS CALL THE PROJECT MANAGER (616) 399-6000.
2. THESE PLANS ARE THE PROPERTY OF CHARTER HOUSE HOLDINGS, LLC. THESE PLANS MAY NOT BE REPRODUCED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF CHI. UNAUTHORIZED USE WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED.
3. CHI REQUESTS VERIFICATION OF FIELD DIMENSIONS FROM THE GENERAL CONTRACTOR FOR THE FABRICATION OF COMMERCIAL FURNITURE, DECOR, CORE DRILL, AND SPACE PLANS WHEN FIELD DIMENSIONS CAN NOT BE ATTAINED, LATE SHIPMENTS MAY RESULT.
4. IF SPECIFIED ITEMS ARE NOT AVAILABLE, CONTACT YOUR PROJECT MANAGER AT CHI.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE JOB SITE AND NOTIFY CHi OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
6. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 LBS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
7. WALLCOVERINGS & CHAIR RAIL MUST RETURN INTO WINDOW.
8. GENERAL CONTRACTOR WILL BE RESPONSIBLE OF DISPOSAL OF ALL PACKAGING MATERIAL FROM SEATING & DECOR PRODUCTS.
9. GENERAL CONTRACTOR TO POSITION THERMOSTAT / VOLUME CONTROL / AND OTHER LIKE ITEMS TO NOT INTERFERE WITH THE CHi DECOR.

REMODEL PROJECTS ONLY

1. IN CASES OF REMODELING; THE EXISTING SEATING, STEEL, DECOR, & WALL FINISHES ARE TO BE REMOVED BY THE OWNER AND / OR GENERAL CONTRACTOR. IT IS NOT THE RESPONSIBILITY OF CHi.
2. FLOOR / BASE TILE MUST BE IN GOOD REPAIR BEFORE ANY CORE DRILLING BEGINS.
3. ALL DIMENSIONS ARE FROM EXISTING FINISHES. PLEASE MAKE APPROPRIATE ALLOWANCES FOR ANY NEW FINISHES.
4. PLEASE CONTACT CHi CONCERNING CONFLICTS BETWEEN CHi DECOR & ELECTRICAL OR HVAC PLACEMENT.

FLOORING NOTES

1. A MINIMUM 5" CONCRETE SLAB IS REQUIRED FOR ALL CORE DRILLING.
2. ALL FLOOR & COVE BASE TILE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
3. NEW FLOOR & BASE TILE TO BE INSTALLED AND GROUTED 48 HOURS PRIOR TO CHi PRODUCT INSTALLATION. IF DAMAGE OCCURS DUE TO INSUFFICIENT CURING TIME, REPAIRS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. CHi IS NOT LIABLE FOR CORED STEEL THAT BECOMES UNSTABLE AS A RESULT OF DRILLING THROUGH A CONCRETE SLAB LESS THAN 5" THICK.
5. CHi IS NOT RESPONSIBLE FOR DAMAGE OF ANY MECHANICAL LOCATED WITHIN 5" OF THE FINISHED FLOOR.
6. COVE BASE / BULLNOSE TILE (IF REQ'D) ON ALL CHi DIVIDER WALLS TO BE SUPPLIED & INSTALLED BY THE GENERAL CONTRACTOR.

ELECTRICAL, HVAC, AND CEILING NOTES

1. USE LIGHTING LAYOUT AS A GUIDELINE ONLY. CHi WILL NOT BE HELD LIABLE FOR ADDITIONAL COSTS DUE TO ADJUSTING LIGHTING QTY'S OR LOCATIONS FOR PERSONAL PREFERENCES, VARIATIONS WITH ARCHITECTURAL PLANS, OR LOCAL CODES.
2. GC TO SUPPLY AND CONNECT ELECTRICAL PIGTAIL AT ALL CODED LOCATIONS FOR CHI PRODUCT.
3. ALL ELECTRICAL FIXTURES, WIRING, AND INSTALLATIONS TO BE UL APPROVED.
4. ALL CEILING TILES AND GRID TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. IN CASE OF REMODELING THE CEILING TILE AND GRID SHOULD BE REMOVED ONLY IF REQUESTED BY THE CUSTOMER.
5. LIGHTING FIXTURES AND / OR HVAC MAY NEED TO BE RELOCATED BY GC TO ACCOMMODATE DECOR AND ELECTRICAL OR HVAC PLACEMENT. (SEE REFLECTED CEILING PLAN FOR NEW CEILING FINISH REQUIREMENTS IF APPLICABLE)
6. PLEASE CONTACT YOUR CHI PRODUCT MANAGER CONCERNING ANY CONFLICTS BETWEEN PLACEMENT OF CHI DECOR ELEMENTS.
7. GENERAL CONTRACTOR TO CONTACT CONSTRUCTION ENGINEERING TO VERIFY FINAL PLACEMENT OF HVAC.
8. CHI WILL INCLUDE REFLECTED CEILING PLANS WHEN (1) ADDITIONAL LIGHTING IS SPECIFIED IN DINING AREAS BEYOND THE EXISTING CONDITIONS OR BEYOND ARCHITECTURAL PLANS. (2) CHI DECOR INTERFERES WITH CEILING ELEMENT OR (3) IF CEILING IS BEING REPLACED.

SITE CONDITIONS FOR CHI DECOR INSTALLATION

1. IT IS IMPORTANT FOR THE FOLLOWING WORK TO BE COMPLETED PRIOR TO THE ARRIVAL OF CHi PRODUCT AND / OR INSTALL CREWS. THESE CONDITIONS ARE ESTABLISHED TO INSURE THAT PRODUCT IS INSTALLED MOST EFFICIENTLY (WITHOUT DAMAGE TO PRODUCT) AND UNDER SAFE CONDITIONS.
2. ALL INTERIOR WALL FINISHES TO BE COMPLETE, INCLUDING (BUT NOT LIMITED TO): WALLCOVERING, WAINSCOTING, PAINT, AND CHAIR RAIL.
3. FLOOR AND BASE TILE TO BE TILED AND GROUTED FOR A MINIMUM OF 48 HOURS PRIOR TO ARRIVAL.
4. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 POUNDS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
5. ALL HVAC WORK TO BE COMPLETE.
6. CEILING TRACK AND TILE TO BE INSTALLED.
7. ALL WINDOWS TO BE INSTALLED IN BUILDING.
8. ELECTRICAL SERVICE TO 120V / 30 AMP CIRCUITS FOR CORE DRILLING.
9. POTABLE WATER SUPPLY.
10. OPERATING LIGHTS (ADEQUATE FOR EVENING WORK).
11. CLEAN AND OPEN WORK AREA IN DINING ROOM.
12. WASTE DUMPSTER ON-SITE.
13. FINISHED PARKING LOT OR SUBSURFACE WITH 1" OF FINISHED GRADE.
14. UNENCUMBERED AND CONTINUOUS ACCESS TO THE BUILDING.
15. GENERAL CONTRACTOR RESPONSIBLE FOR TEMPORARY POWER IF ELECTRICAL SERVICE IS UNAVAILABLE.

IMPORTANT NOTES

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES.
2. THE GENERAL CONTRACTOR MUST VERIFY ALL BUILDING DIMENSIONS, EQUIPMENT, FURNITURE PLACEMENT, UTILITY LOCATIONS, AND CONDITIONS AT THE JOB SITE.
3. THE GENERAL CONTRACTOR MUST NOTIFY CHi OF ALL DISCREPANCIES AND /OR REQUIRED ADJUSTMENTS PRIOR TO STARTING WORK.
4. DO NOT SCALE OFF PLANS. CALL YOUR CHi PROJECT MANAGER TO VERIFY ANY QUESTIONABLE DIMENSIONS (616) 399-6000.
5. ALL DIMENSIONS ARE FOR DESIGN INTENT ONLY.
6. CHARTER-HOUSE HAS PREPARED THESE DOCUMENTS AS ACCURATELY AS POSSIBLE WITH THE ARCHITECTURAL INFORMATION PROVIDED. DUE TO LACK OF ACCURATE AND COMPLETE DIMENSIONED ARCHITECTURAL PLANS, OWNER UNDERSTANDS THAT ADJUSTMENTS TO THE FINAL LOCATIONS OF EQUIPMENT AND / OR FURNITURE PLACEMENT MAY BE REQUIRED AT THE OWNER'S EXPENSE DUE TO DISCREPANCIES BASED ON ACTUAL JOB SITE DIMENSIONS AND CONDITIONS.
7. REFER TO ARCHITECTURAL OR ENGINEERING DRAWINGS FOR COMPLETE AND ACCURATE DIMENSIONS OF BUILDING STRUCTURE.
8. THESE ARE CONTRACT DOCUMENTS AND THE INFORMATION THEY CONTAIN ARE THE PROPERTY OF CHARTER-HOUSE.
9. ALL CONTRACT DOCUMENTS MAY NOT BE COPIED, REPRODUCED, USED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS WRITTEN CONSENT OF CHARTER-HOUSE.
10. ANY UNAUTHORIZED USE OF THESE PLANS WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED BY CHARTER-HOUSE.
11. ANY DEVIATIONS FROM THESE DRAWINGS FOR ANY REASON SHALL NOT BE DONE WITHOUT CONSENT OF CHARTER-HOUSE IN ADVANCE, IN WRITING. CHARTER-HOUSE IS NOT RESPONSIBLE FOR DEVIATIONS, CHANGES, ADDITIONS, OR DELETIONS NOT REVIEWED AND APPROVED IN ADVANCE BY CHARTER-HOUSE.
12. THESE DOCUMENTS REFLECT EQUIPMENT ORDERED OF DATE SHOWN ON DRAWINGS.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Charter House Holdings, LLC
200 N. Franklin Street
Zeeland, MI 49464
www.gotoCHi.com
616.399.6000

CHICK-FIL-A
Oldham Village FSU
SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT #	####
DATE	11/19/24
DRAWN BY	BS

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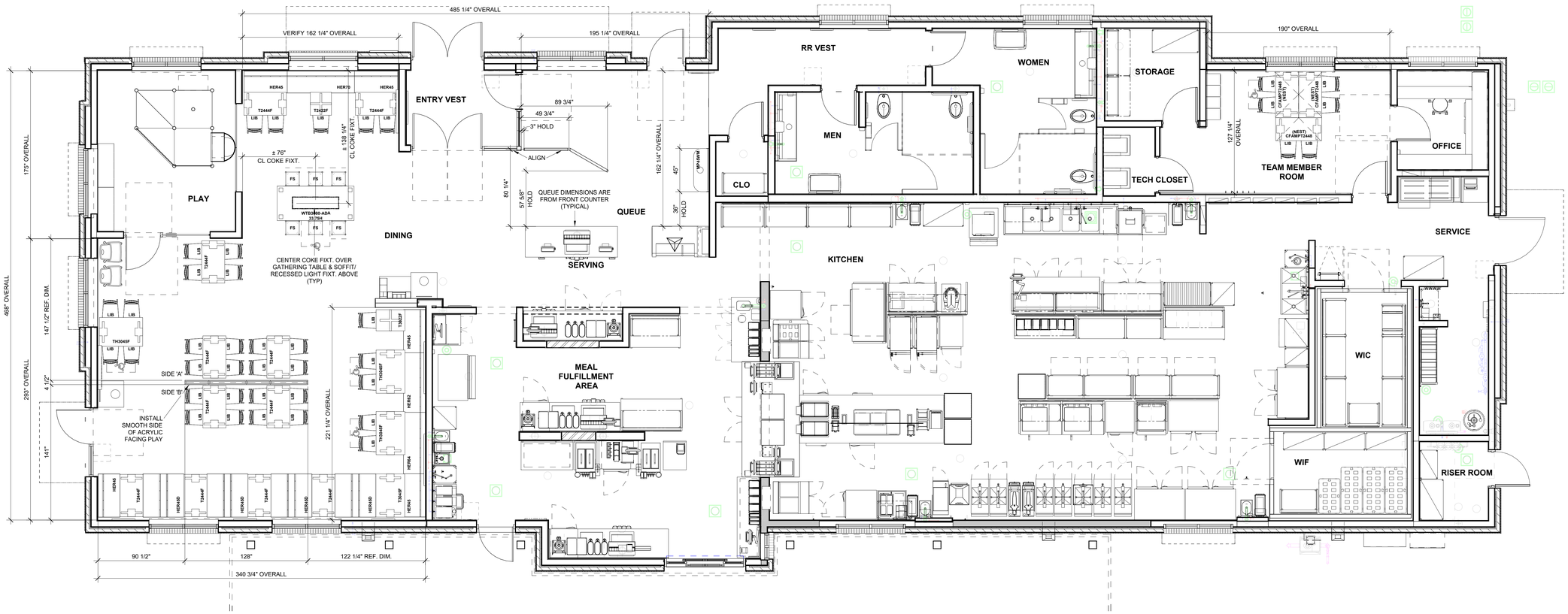
SHEET
FURNITURE FLOOR PLAN

SHEET NUMBER
F-201

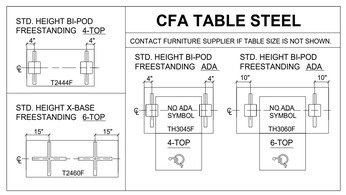
WALL/ QUEUE KEY	STEEL LOW WALL, BY CHI 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY CHI 2.5" DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS. WALL KEY REFERS TO CHI MANUF. PRODUCT ONLY.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	

STEEL KEY	CORE-DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

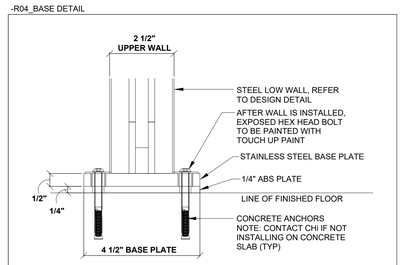
NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.



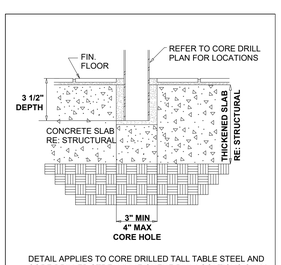
1 CORE DRILL PLAN
1/4" = 1'-0"



-R04_BASE DETAIL



STEEL LOW WALL - BASE PLATE (BOLT DOWN)
SCALE: N.T.S



DETAIL APPLIES TO CORE DRILLED TALL TABLE STEEL AND CORE DRILLED STREAMLINE QUEUE RAIL LOCATIONS ONLY.

TYPICAL CORE HOLE DETAIL
SCALE: N.T.S

Chick-fil-A
5200 Buffington Road
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Charter House Holdings, LLC
200 N. Franklin Street
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CONSULTANT PROJECT # ####
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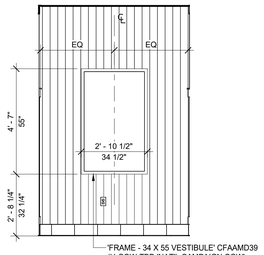
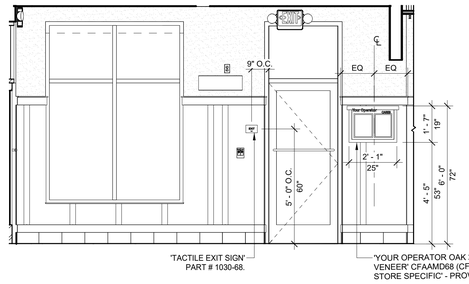
DRAWN BY BS

SHEET
FURNITURE CORE DRILL PLAN

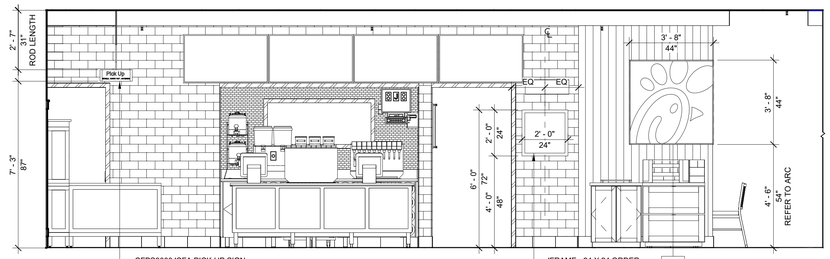
SHEET NUMBER
F-211



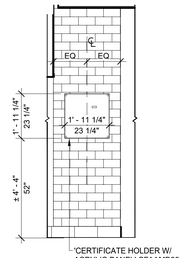
1 34 X 55 VESTIBULE FRAME
3/8" = 1'-0"



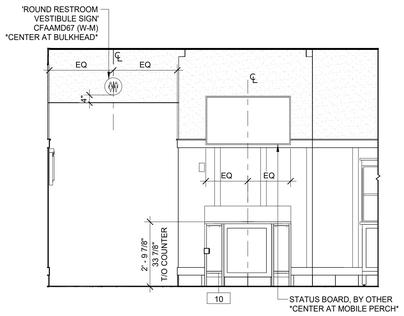
2 YOUR OPERATOR PANEL & TACTILE EXIT SIGN
3/8" = 1'-0"



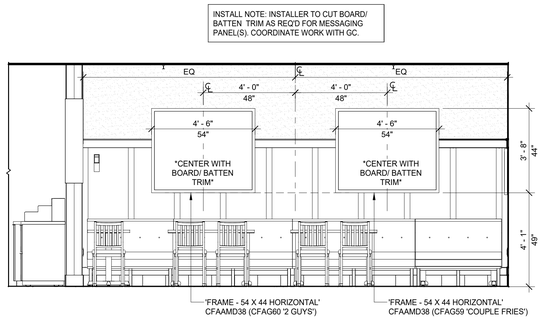
3 METAL SQUARE 'C' SYMBOL & MESSAGING
3/8" = 1'-0"



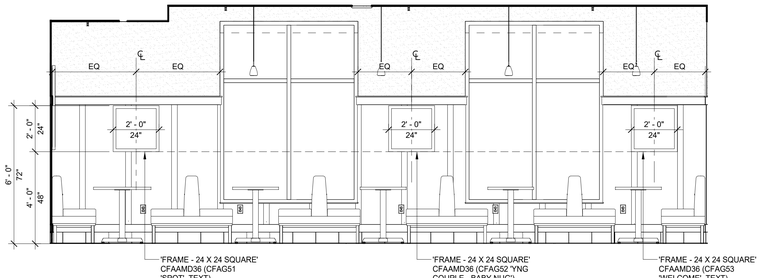
4 CERTIFICATE HOLDER
3/8" = 1'-0"



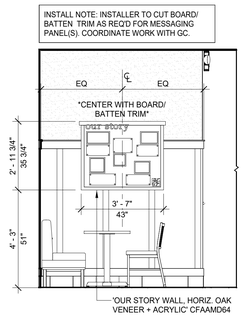
5 RESTROOM VESTIBULE SIGNAGE & STATUS BOARD
3/8" = 1'-0"



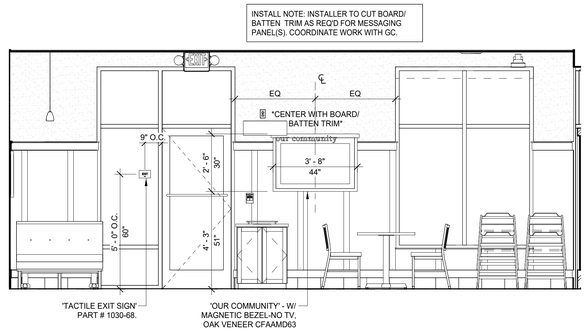
6 54 X 44 HORIZONTAL FRAMES
3/8" = 1'-0"



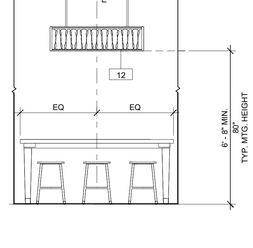
7 24 X 24 SQUARE FRAMES
3/8" = 1'-0"



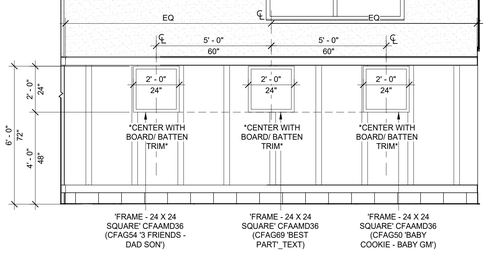
8 OUR STORY PANEL
3/8" = 1'-0"



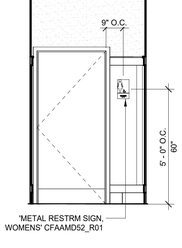
9 OUR COMMUNITY PANEL & 24 X 24 SQUARE FRAME
3/8" = 1'-0"



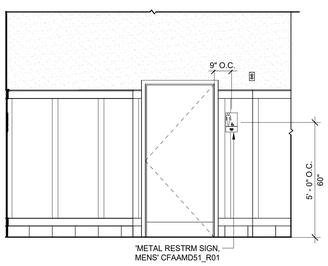
10 COKE FIXTURE
3/8" = 1'-0"



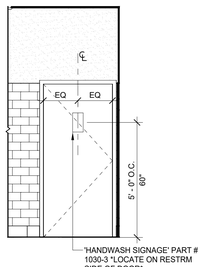
11 24 X 24 SQUARE FRAMES AT RESTROOM VESTIBULE
3/8" = 1'-0"



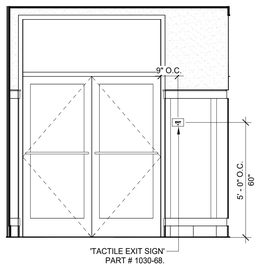
12 WOMENS RESTRM SIGNAGE
3/8" = 1'-0"



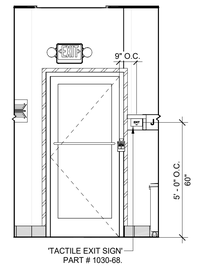
13 MENS RESTROOM SIGNAGE
3/8" = 1'-0"



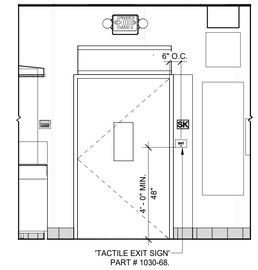
14 HANDWASH SIGNAGE
3/8" = 1'-0"



15 TACTILE EXIT SIGN AT DOUBLE DOOR VESTIBULE
3/8" = 1'-0"



16 TACTILE EXIT SIGN AT DRIVE THRU DOOR
3/8" = 1'-0"



17 TACTILE EXIT SIGN AT SERVICE DOOR
3/8" = 1'-0"

INTERIOR MESSAGING PANELS TO GET MOUNTED DIRECTLY OVER BOARD/ BATTEN WALL FINISH AS SHOWN UNLESS NOTED OTHERWISE TO CUT UPPER HORIZONTAL TRIM & VERTICAL BOARD/ BATTEN TRIM.

REFER TO ELEVATIONS FOR INTERIOR MESSAGING, FURNITURE, AND/OR DECOR LOCATIONS ONLY. REFER TO ARCHITECTURAL SHEETS FOR ALL INTERIOR FINISH & WALL PARTITION TYPE INFORMATION.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHi
Charter House Holdings, LLC
200 N. Franklin Street
Zeeland, MI 49464
www.gotoCHi.com
616.399.6000

CHICK-FIL-A
Oldham Village FSU

SW Corner Hwy 50 & MO State Rte 291
Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

ISSUE FOR PERMIT

CONSULTANT PROJECT # ####
DATE 11/19/24
DRAWN BY BS

SHEET
DECOR ELEVATIONS

SHEET NUMBER
F-701

_FURNITURE SYSTEM SCHEDULE

Item Number	Description	Part Number	Manufacturer	Qty.	Type Comments
500241	Millwork_Low Steel Wall_128	CFAW101-128-R04	Furniture Vendor	1	Bolt Down Base Plate
500241	Millwork_Mobile Perch Queue Rail_45_Wall Mount	CFAQUECABINET45_R02	Furniture Vendor	1	Wall Mount Install
500241	Millwork_Streamline Queue_1 Section_150 Degree	----	Furniture Vendor	1	Core Drill Steel
Grand total: 3				3	

MATERIALS & FINISH SCHEDULE (FURNITURE & DECOR) - Heritage

05-2023

MATERIAL	CODE	MANUFACTURER	PRODUCT SPECIFICATION	SIZE	CONTACT / ADDITIONAL INFORMATION	ADDITIONAL NOTES
STEEL						
	S-1	N/A	RESOLVE SILVER METALLIC	N/A	FURNITURE SUPPLIER/ MANUF.	--
	S-2	NOT USED				
	S-3	N/A	DARK CHERRY	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-4	N/A	TRI-SMOKE MINI TEX. #T1-7060	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-5	N/A	ALUMINUM, BLACK	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-6	N/A	TIGER 89/80419 RAL 9011-FINE TEXTURE	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-7	N/A	BLACK WRINKLE	N/A	FURNITURE SUPPLIER/ MANUF.	
UPHOLSTERY						
	UPH-1	MOMENTUM	CFA COMB, JH4648A6 W/ MPC	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-2	CF STINSON	MONTANA, CFASB, SABLE BROWN (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-3	ARC COM	DURANGO, AC-67567 RED (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
PLASTIC LAMINATE						
	PL-1	PIONITE	AT660, CRISSCROSS	N/A	LOCAL DISTRIBUTOR	
	PL-2	NEVAMAR	S10277, LIBERTY RED	N/A	LOCAL DISTRIBUTOR	
	PL-3	WILSONART	4846-60, MORRO ZEPHYR	N/A	LOCAL DISTRIBUTOR	
	PL-4	FORMICA	20949-90 WHITE DRY ERASE MARKER BOARD, POLISHED	N/A	LOCAL DISTRIBUTOR	
	PL-5	NOT USED				
	PL-6	WILSONART	D96-60 SHADOW	N/A	LOCAL DISTRIBUTOR	
EDGE BAND						
	EB-1	N/A	REHAU, 309423-014/592E (DOELLKEN MULTIPLEX MATCH) -384-12	N/A	FURNITURE SUPPLIER/ MANUF.	
	EB-2	N/A	REHAU, SLATE GRAY WD91	N/A	FURNITURE SUPPLIER/ MANUF.	
DECORATIVE BOARD						
	DB-1	N/A	BALTIC BIRCH EDGE, CHI-001 CLEAR FINISH	N/A	FURNITURE SUPPLIER/ MANUF.	
ACRYLIC						
	AC-1	3-FORM	VARIA ECO-RESIN, CFA CUSTOM TEXTURE PATENT FINISH + CLEAR	N/A	FURNITURE SUPPLIER/ MANUF.	
	AC-2	CLEAR FORM	CAST WHITE 7508	N/A	FURNITURE SUPPLIER/ MANUF.	
WOOD						
	WD-1	N/A	SOLID WHITE OAK	N/A	FURNITURE SUPPLIER/ MANUF.	
SOLID SURFACE						
	SS-1	NOT USED				
	SS-2	AVONITE	MIST	N/A	FURNITURE SUPPLIER/ MANUF.	
GLASS						
	GL-1	NOT USED				
	GL-2	N/A	COKE GLASS - SMART GLASS JEWELRY *COKE FIXTURE*	N/A	FURNITURE SUPPLIER/ MANUF.	

GENERAL NOTES:
1. MATERIAL SPECIFICATIONS LISTED ABOVE ARE TYPICAL TO SEATING PACKAGE. NOT ALL FINISHES MAY BE USED. REFER TO FURNITURE DETAILS FOR SPECIFIC MATERAILS USED IN PROJECT.

SEATING & DECOR KEY

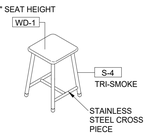
1	LIBRARY CHAIR, STANDARD	7	METAL SQUARE 'C' SYMBOL, DOUBLE-SIDED (44 X 44)
2	NOT USED	8	STEEL LOW WALL
3	FARM STOOL - 22" HEIGHT	9	STREAMLINE QUEUE
4	HERITAGE BOOTH/ BANQUETTE	10	MOBILE PERCH *WALL MOUNT*
5	TABLES (TYP)	11	MULTI-PURPOSE TABLE
6	GATHERING TABLE, 6-TOP *ACCESSIBLE*	12	COKE FIXTURE

_FURNITURE SCHEDULE

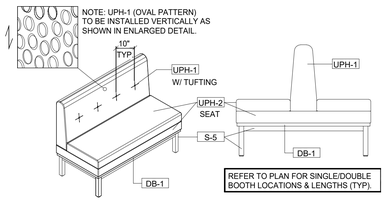
Item Number	Description	Type	Part Number	Code	Manufacturer	Qty.	Type Comments
500236	Table Steel_FS_Bipod	Table Steel_Freestanding_Bipod	1040-1BW		Furniture Vendor	30	Refer to Furniture Plan for Locations.
500236	Table_Base_Flip Top_Casters	Table Steel_Freestanding_Castor Base_Flip Top_22 Base Spread	CFAMPTLG22-FT		Furniture Vendor	6	Freestanding (Tilt / Nest)
500236	Table Steel_FS_X	Table Steel_Freestanding_X	1040-2BW		Furniture Vendor	2	Refer to Furniture Plan for Locations.
500236	Table_Base_FS_ADA 30x45	30 x 45	TABLE3045PC-SQ-S	TH3045F	Furniture Vendor	3	Freestanding
500236	Table_Base_FS_24x44	24 x 44	TABLE2444PC-SQ-S	T2444F	Furniture Vendor	11	Freestanding
500236	Table_Base_FS_30x45	30 x 45	TABLE3045PC-SQ-S	T3045F	Furniture Vendor	1	Freestanding
500236	Table_Base_FS_24x22	24 x 22	TABLE2224PC-SQ-S	T2422F	Furniture Vendor	1	Freestanding
500236	Table_Base_FS_30x22	30 x 22	TABLE2230PC-SQ-S	T3022F	Furniture Vendor	1	Freestanding
500236	Table_Top_MP_Tilt_Nest_24x48	24 x 48_Tilt_Nest	CFAMPT2448	CFAMPT2448	Furniture Vendor	2	Caster Style Base (Flip Top): CFAMPTLG22-FT
500236	Table_Top_MP_Tilt_Nest_24x48	24 X 48_Tilt_Nest_ADA	CFAMPT2448	CFAMPT2448	Furniture Vendor	1	Caster Style Base (Flip Top): CFAMPTLG22-FT
500236	Table_Gathering_Accessible_33.75 Height_6-top	6-Top (Accessible)_33.75" Height	CFAGT7-LP	WTB3680-ADA 33.75H	A Better Way Ministries	1	Furniture Vendor
500237	Chair_Farm Stool_22" H	Chair_Farm Stool_22" H Frame	FARMSTWO	FS	Furniture Vendor	6	Use with Accessible Max 34" Dining Surface
500237	Chair_Library_Standard	Chair_Library_Standard	LIBRARYCHUPH1-CFA-R02	LIB	Furniture Vendor	40	Standard Height Chair
500238	Booth_Heritage_Double 45"	45"	HERITAGE45DCBMBAL	HER45D	Furniture Vendor	4	
500238	Booth_Heritage_Single 45"	45"	HERITAGE45SCBMBAL	HER45	Furniture Vendor	5	
500238	Booth_Heritage_Single 62"	62"	HERITAGE62SCBMBAL	HER62	Furniture Vendor	1	
500238	Booth_Heritage_Single 64"	64"	HERITAGE64SCBMBAL	HER64	Furniture Vendor	1	
500238	Booth_Heritage_Single 70"	70"	HERITAGE70SCBMBAL	HER70	Furniture Vendor	1	
500246	Interior Signage_Certificate Holder	Signage_Certificate Holder with Acrylic Panel_CFAAMD25_23.25" x 23.25"	CFAAMD25		OSI	1	Supplied by Furniture Vendor
500246	Interior Signage_24x24 Frame	Signage_Frame_24x24 Square_CFAAMD36	CFAAMD36		OSI	6	Supplied by Furniture Vendor
500246	Interior Signage_24x24 Frame	Signage_Frame_24x24 Square_Order Area_CFAAMD36_Sticker w/ Contact info Nat'l Camp	CFAAMD36		OSI	1	Supplied by Furniture Vendor
500246	Interior Signage_Handwash	Signage_Handwash_Clayton_1030-3	1030-3		Clayton Signs	2	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_24x24	Image Panel Backer_24x24	CFAG66		SGK	6	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_24x24_Sticker	Image Panel Backer_24x24_Nat'l Camp-Contact Sticker	CFAG66-S		SGK	1	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_44x54	Image Panel Backer_44x54_8 Magnets	CFAG67		SGK	2	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_Vestibule Frame	Image Panel Backer_Nat'l Campaign-Vestibule Frame	CFAG68		SGK	1	Supplied by Furniture Vendor
500246	Interior Signage_Mens RR Sign_Metal	Signage Mens Restroom Sign_CFAAMD51_10" x 6"	CFAAMD51_R01		OSI	1	Supplied by Furniture Vendor
500246	Signage_MODI Table Markers	MODI	MODI		Furniture Vendor	1	Refer to Table Number Placement Plan.
500246	Interior Signage_Pick-Up_Suspended	Signage Pick-Up Sign 10'-0" / 10'-4"	CFPS3000		PORTICO	1	Supplied by Furniture Vendor
500246	Interior Signage_Playground Rules_standard_play & see	Signage_Playground Rules_CFAAMD7-1_15" x 10.5"	CFAAMD7-1		OSI	2	Supplied by Furniture Vendor
500246	Interior Signage_Round Vestibule RR Sign_Metal	Signage_Round Vestibule Restroom Sign_CFAAMD67_9" DIA (W-M)	CFAAMD67		OSI	1	Supplied by Furniture Vendor
500246	Interior Signage_Tactile Exit	Signage_Tactile Exit_1030-68_4" x 6"	1030-68		Clayton Signs	5	Supplied by Furniture Vendor
500246	Interior Signage_Womens RR Sign_Metal	Signage_Womens Restroom Sign_CFAAMD52_10" x 6"	CFAAMD52_R01		OSI	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_Baby Cookie-Baby GM	CFAG50		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Spot_Text	CFAG51		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_Yng Couple-Baby Nug	CFAG52		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Welcome_Text	CFAG53		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_3 Friends-Dad Son	CFAG54		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Best Part_Text	CFAG69		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_44x54_One-Sided	Image Panel_44x54_Couple Fries	CFAG59		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_44x54_One-Sided	Image Panel_44x54_2 Guys	CFAG60		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_Your Operator Store Specific	Image Panel_CFAG34-Your Operator Store Specific	CFAG34		By Other	1	Your Operator Image Panel, Supplied by Other
500250	Wall Graphic_Nat'l Campaign Cow	Image Panel_H-COW-TBD-Nat'l Campaign Cow	By Other		Print Direction	1	National Campaign Image Panel, Supplied By Other
500250	Wall Graphic_Nat'l Campaign Panel	Image Panel_2x2 Nat'l Campaign Panel	By Other		By Other	1	National Campaign Image Panel, Supplied by Other
500250	Wall Graphic_Playground Rules_Play & See	Image Panel_Playground Rules_Play & See	H-PLAY-001-1		---	2	Supplied by Furniture Vendor
500250	Interior Signage_34x55 Vestibule Frame	Signage_Frame_34x55 Vestibule_CFAAMD39	CFAAMD39		OSI	1	Supplied by Furniture Vendor
500250	Messaging_54x44 Frame	Signage_Frame_54x44 Horizontal_CFAAMD38	CFAAMD38		OSI	2	Supplied by Furniture Vendor
500250	Our Community Board	Signage_Our Community, Magnetic Bezel-No TV, Oak Veneer_CFAAMD63_30" x 46"	CFAAMD63		OSI	1	Supplied by Furniture Vendor
500250	Messaging_Our Story Wall_Horizontal	Signage_Our Story Wall, Horizontal-Oak Veneer + Acrylic_CFAAMD64_35.75" x 45"	CFAAMD64		OSI	1	Supplied by Furniture Vendor
500250	Your Operator Panel	Signage_Your Operator Oak 2022 - Small, Oak Veneer_CFAAMD68_19" x 27"	CFAAMD68		OSI	1	Supplied by Furniture Vendor
500250	Brand Elements_Coca-Cola Pendant	Coke Light	Coke Light		Furniture Supplier	1	
500250	Brand Elements_Metal Square C Symbol_Double Sided_44x44	44x44_9.25D	CH4444-DSIV4		Furniture Vendor	1	
Grand total: 170						170	

1 LIBRARY CHAIR, STANDARD HT
N.T.S.

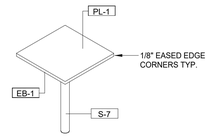
2 NOT USED
N.T.S.



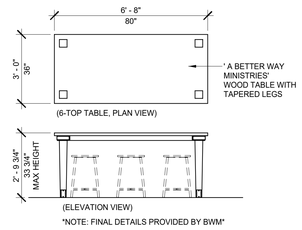
3 FARM STOOL - 22" HEIGHT
N.T.S.



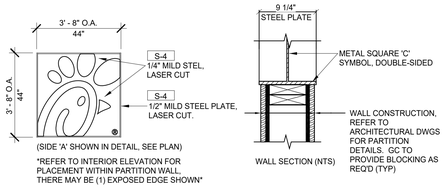
4 HERITAGE BOOTH / BANQUETTE
N.T.S.



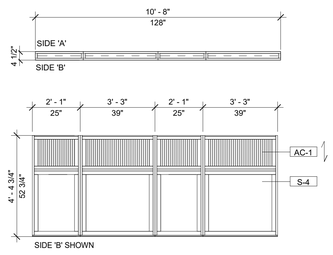
5 TABLES (TYP)
N.T.S.



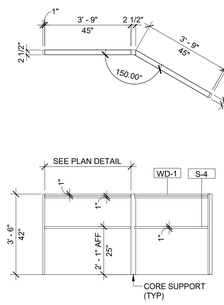
6 GATHERING TABLE, 6-TOP (ACCESSIBLE)
3/8" = 1'-0"



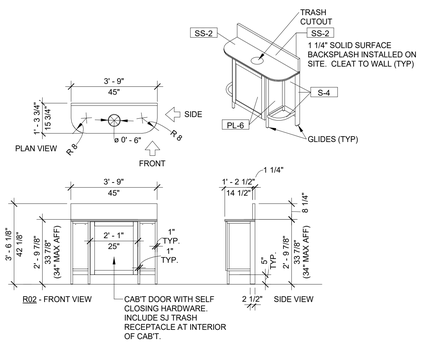
7 METAL SQUARE 'C' SYMBOL, DOUBLE-SIDED (44" x 44")
3/8" = 1'-0"



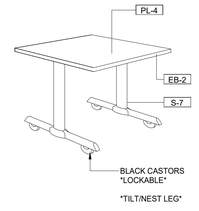
8 STEEL LOW WALL-128
3/8" = 1'-0"



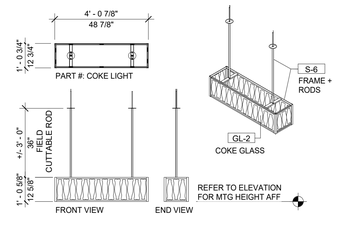
9 STREAMLINE QUEUE
3/8" = 1'-0"



10 MOBILE PERCH_WALL MOUNT_45_R02
3/8" = 1'-0"



11 MULTI-PURPOSE TABLE
N.T.S.



12 COKE FIXTURE
3/8" = 1'-0"

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30349-2998

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Lee's Summit, MO 64081

FSR#05248

BUILDING TYPE / SIZE: P14 LSR BS
RELEASE: 24.08
PRINTED FOR
ISSUE FOR PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

ISSUE FOR PERMIT

CONSULTANT PROJECT # ####
DATE 11/19/24
DRAWN BY BS

SHEET
FURNITURE PRODUCT DETAILS

SHEET NUMBER
F-702