GOVERNMENTAL AGENCIES

BUILDING DEPARTMENT
City of Lee's Summit
Development Services
220 SE Green
Lee's Summit, MO 64063
Phone: 816-969-1200
816-969-1241
Contact Name: Mr. Frogge
Contact Email: joe.frogge@cityofls.net
devtech@cityofls.net

HEALTH DEPARTMENT
Jackson County Environmental Health
34900 E. Old US 40 Highway
Oak Grove, MO 64075
Phone: 816-847-7070
Contact Name: Deb Sees, Director
Contact Email: dsees@jacksongov.org

BUILDING DATA

BUILDING CODE:
2018 International Building Code with State Amendments

PLUMBING CODE:
2018 International Plumbing Code

MECHANICAL CODE:
2018 International Mechanical Code

ELECTRICAL CODE:
2017 International Electrical Code

FIRE CODE:
2018 International Fire Code with State Amendments

ENERGY CODE:
Coordinate with local jurisdiction

EXISTING RESTAURANT DATA

TYPE OF CONSTRUCTION:	VB, SPRINKLERED *(NO CHANGE)*
OCCUPANCY:	A2 *(NO CHANGE)*
ALLOWABLE AREA:	6,000 SF
BUILDING AREA:	5,000 SF *(NO CHANGE)*
ALLOWABLE HEIGHT:	40' - 0"
BUILDING HEIGHT:	26' - 0" *(NO CHANGE)*

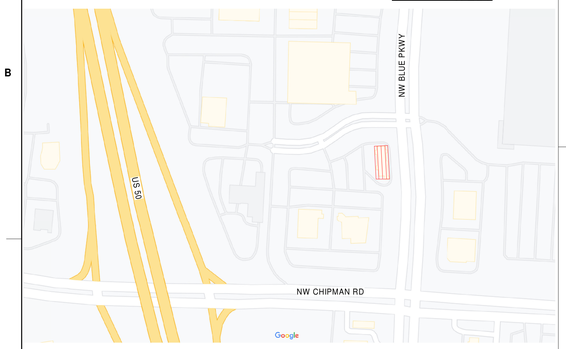
SCOPE OF WORK

THESE DOCUMENTS REPRESENT THE EXTENSION OF THE DRIVE-THRU COCKPIT AREA AND ADDITION OF AN EXTERIOR DOOR. THE FOLLOWING IS A SUMMARY OF THE INTENDED WORK TO TAKE PLACE:

ARCHITECTURAL:
- FINISH MODIFICATIONS AND PATCHING AS REQUIRED
- PROVIDE NEW EQUIPMENT AS INDICATED

STRUCTURAL:
- PROVIDE NEW STRUCTURAL SUPPORT AT DEMOLISHED WALL

VICINITY MAP



REGION: SOUTHEAST
ATLANTIC
X MIDWEST
NORTHEAST
SOUTHWEST
WEST

02859
S08 N-SML-R
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086



BUILDING SPECIAL CONDITIONS
- NEW DRIVE-THRU DOOR (TORMAX)
- EXISTING OMD CANOPY TO REMAIN

ARCHITECT
1705 S. Walton Blvd., Ste3
Bentonville, AR 72712
479.273.7780 ext 384
Steven Baker
steven.baker@hfa-ae.com

STRUCTURAL
31 Hayward St., Ste E-1
Franklin, MA 02038
508.528.0770 ext 426
Giancarlo Botazzi
giancarlo.botazzi@hfa-ae.com

MECHANICAL/PLUMBING
1705 S. Walton Blvd., Ste3
Bentonville, AR 72712
479.273.7780 ext 291
Greg Schluterman
greg.schluterman@hfa-ae.com

ELECTRICAL
1705 S. Walton Blvd., Ste3
Bentonville, AR 72712
479.273.7780 ext 336
Jaime Castaneda
jaime.castaneda@hfa-ae.com

KITCHEN
TriMark Strategic Equipment
3011 Industrial Parkway East
Knoxville, TN 37921
865.545.5220
Jessica Duggan
Test@trimarkusa.com

SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUED FOR BID	ISSUED FOR PERMIT	ISSUED FOR CONSTRUCTION
G-000	COVER SHEET			
G-004	RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE			
A-050	DEMOLITION PLAN			
A-201	FLOOR PLAN			
A-221	REFLECTED CEILING PLAN			
A-301	EXTERIOR ELEVATIONS			
A-401	ENLARGED EXTERIOR PLAN			
A-501	EXTERIOR DETAILS			
A-600	INTERIOR ELEVATIONS			
A-620	INTERIOR DETAILS			
A-901.1	SPECIFICATIONS			
A-901.2	SPECIFICATIONS			
A-902	SPECIFICATIONS			
A-903	SPECIFICATIONS			
A-904	SPECIFICATIONS			
A-905	SPECIFICATIONS			
A-906	SPECIFICATIONS			
A-907	SPECIFICATIONS			
A-908	SPECIFICATIONS			
A-909	SPECIFICATIONS			
A-910	SPECIFICATIONS			
A-911	SPECIFICATIONS			
S101	PARTIAL FOUNDATION AND FRAMING PLANS			
S301	FOUNDATION AND FRAMING SECTIONS			
M-101	MECHANICAL - FLOOR PLAN, NOTES, AND SCHEDULES			
M-102	MECHANICAL DETAILS, AND SPECIFICATIONS			
P-101	PLUMBING FLOOR PLANS			
P-102	PLUMBING RISERS DIAGRAMS AND DETAILS			
P-103	PLUMBING SPECIFICATIONS AND SCHEDULES			
E-200	ELECTRICAL DEMOLITION PLAN			
E-211	LIGHTING PLAN			
E-221	POWER AND SYSTEMS PLAN			
E-302	ENLARGED POWER PLAN			
E-501	PANEL SCHEDULES			
E-502	SINGLE LINE DIAGRAM AND NOTES			
E-901	ELECTRICAL SPECIFICATIONS			
E-902	ELECTRICAL SPECIFICATIONS			
K-001	GENERAL NOTES			
K-211	ENLARGED EQUIPMENT FLOOR PLAN			
K-601	ELECTRICAL ROUGH-IN ELEVATIONS			
K-611	PLUMBING ROUGH-IN ELEVATIONS			
K-801	EQUIPMENT SCHEDULE			
F-201	FURNITURE FLOOR PLAN			
F-211	FURNITURE CORE DRILL PLAN			
F-701	DECOR ELEVATIONS & PRODUCT DETAILS			

Joe Frogge

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
07/18/2022

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

HFA
Creative Solutions Meaningful Places
HARRISON FRENCH & ASSOCIATES, LTD

t 479.273.7780

1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ae.com

STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022006460
ARCHITECT

Digitally signed by Steven Louis Baker
DN: E=steven.baker@hfa-ae.com, CN=Steven Louis Baker, O=Harrison French and Associates, L=Bentonville, S=ARKANSAS, C=US
Date: 2022.07.13 10:21:15 -05'00'

STEVEN L BAKER
A-2022006460
HARRISON FRENCH & ASSOCIATES, LTD
A-2005011993-F

CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
COVER SHEET

SHEET NUMBER
G-000

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7/12/2022 2:49:05 PM
02859-G-000-COVER SHEET

NATIONAL ACCOUNTS

PRODUCT	CSI DIVISION	VENDOR	CONTACT	PHONE	EXT	EMAIL	REMARKS
TERMITE TREATMENT	C02-361	TERMINEX	CARL MONEY	610-505-7363		CHICKFILA@TERMINIX.COM	
IRRIGATION	C02-810	RAINBIRD	DONN MANN	520-904-1146		DMANN@RAINBIRD.COM	
BRICK	C04-810	ACME	MIKE HARBISON	706-984-1446		MHARBISON@BRICK.COM	PLANT LOCATED IN AUSTIN, TX
BRICK	C04-810	HC MADDOX	DON SACKETT	720-323-5536		DON.SACKETT@INTERSTATEBRICK.COM	PLANT LOCATED IN SACRAMENTO, CA
BRICK	C04-810	MERIDIAN	DAN LANDIS	404-360-2290		DAN.LANDIS@MERIDIANBRICK.COM	PLANT LOCATED IN BESSEMER, AL
BRICK	C04-810	MUTUAL MATERIALS	GARY ZAGELOW	800-477-7137		GZAGELOW@MUTUALMATERIALS.COM	PLANT LOCATED IN SPOKAN, WA
BRICK	C04-810	REDLAND BRICK	ERIC BARNHART	301-223-7700	7162	ERIC.BARNHART@REDLANDBRICK.COM	PLANT LOCATED IN PITTSBURG, PA
EXTERIOR METAL	C05-050	EXCEPTIONAL METALS	JASON DARK	989-397-7481		JDARK@DURO-LAST.COM	METAL PARAPET COPING, FASCIA & SOFFIT AT ROOF TOWER
STRUCTURAL FRAMING	C06-170	RED BUILT	DAVID THOMPSON	877-371-0448		DTHOMPSON@REDBUILT.COM	
WOOD (DECORATIVE)	C06-200	SKYLAR MORGAN	STEPHANIE MORGAN	404-565-0537	EXT. 111	CFAORDERS@SKYLARMORGANFURNITURE.COM	
MILLWORK	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		CHICKFILA@CLAYTONFIXTURE.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781 ALL REGIONS EXCEPT WEST
MILLWORK	C06-220	FCC	MICHELLE GANSKO	541-464-5235	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
WOOD (WAINSCOTING)	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSCFA.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781 NORTHEAST, SOUTHEAST, AND ATLANTIC REGIONS
WOOD (WAINSCOTING)	C06-220	FCC	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST, SOUTHWEST, AND MIDWEST REGIONS
ROOFING (SINGLE PLY/METAL TRIM)	C07-530	DUROLAST	JASON DARK	989-397-7481		JDARK@DURO-LAST.COM	
EQUIPMENT STANDS (ROOFTOP)	C07-720	AVCOA	STEVE GILINSON	954-584-6001		STEVE@AVCOAUSA.COM	
FRP FLUSH / CAGE DOORS	C08-110	SPECIAL-LITE W/ ZIGMAN PRODUCTS	RICK ZIEGLER	770-231-8350		ZIGMANPRODUCTS@YAHOO.COM	
STAINLESS STEEL DOOR	C08-344	ELIASON	MICHAEL EVANS	513-403-5908		MIKEE@ELIASONCORP.COM	
STOREFRONT	C08-411	KAWNEER	NORRIS MCELROY	770-235-0240		NORRIS.MCELROY@ARCONIC.COM	ALL REGIONS
STOREFRONT	C08-411	YKK	JAMILLA WALCOTT	678-838-6035		JAMILLAWALCOTT@YKKAP.COM	ALL REGIONS
DRIVE-THRU WINDOW	C08-580	QUIK SERV	WADE ARNOLD	713-849-5882		WARNOLD@QUIKSERV.COM	
DOORS AND HARDWARE	C08-710	DH PACE	CHARLES GIRTMAN	(615) 218-4208		CHICKFILADOORS@DHPACE.COM	RE: HARDWARE NOTES ON A-800 - MIDWEST, ATLANTIC, NORTHEAST REGIONS
DOORS AND HARDWARE	C08-710	LOCKNET	ROB OWEN	606-748-2065		ROBO@LOCKNET.COM	RE: HARDWARE NOTES ON A-800 - WEST, SOUTHWEST, SOUTHEAST REGIONS
GROUT	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
GROUT	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
TILE	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
TILE	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
FLOORING (PLAYGROUND)	C09-330	PROJECT INNOVATIONS, INC.	PETE GRIFFIN	727-938-4422		PROJECT.INNOVATIONSPG@GMAIL.COM	ORDER THROUGH SOFT PLAY
FLOORING (PLAYGROUND)	C09-330	THE PLAYGROUND GUYS	ROB PARENT	772-463-0770		THEPGGUYS@AOL.COM	ORDER THROUGH SOFT PLAY
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
CEILING TILE/GRID	C09-510	CERTAINTEED CORPORATION	BERNIE SHALVEY	704-779-7337		BERNARD.G.SHALVEY@SAINT-GOBAIN.COM	
FRP PANELS (KITCHEN)	C09-770	MARLITE	ANITA CRAIG	330-260-7621		ACRAIG@MARLITE.COM	
PAINT (INTERIOR)	C09-910	SHERWIN WILLIAMS	MATTHEW HEALD	404-323-2263		MATTHEW.J.HEALD@SHERWIN.COM	
CORNER GUARDS	C10-265	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
INTERIOR MENU BOARDS	C10-411	C3 LIGHTING SOLUTIONS	RICK FARRELL	714-545-5985		RCLARKFARRELL@AOL.COM	
EXTERIOR SIGNS	C10-422	ANCHOR SIGN	JOSHUA MUCKELYANEY	843-576-3275		JMUCKELVANEY@ANCHORSIGN.COM	
EXTERIOR SIGNS	C10-422	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
EXTERIOR SIGNS	C10-422	CLAYTON SIGNS	TODD WILLIS	404-361-3800	EXT. 426	TODDWILLIS@CLAYTONSIGNS.COM	
EXTERIOR SIGNS	C10-422	NATIONAL SIGN & MARKETING	STEVE ROSENBLOOM	909-287-7369		SROSENBLOOM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	AWNEX INC.	TREY HERNDON	706-704-7140	EXT. 113	TREY@AWNEXINC.COM	MIDWEST AND NORTH EAST REGION
BUILDING CANOPY	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
BUILDING CANOPY	C10-440	NATIONAL SIGN & MARKETING	STEVE ROSENBLOOM	909-287-7369		SROSENBLOOM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILA@UNISTRUCTURES.COM	SOUTHEAST AND ATLANTIC REGION
DRIVE-THRU ORDER AREA CANOPY (FABRIC)	C10-440	SUPERIOR INNOVATION, INC.	BRUCE BARKER	615-410-5463		BRUCE.BARKER@SIIBRANDS.COM	ARID CLIMATES ONLY
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	FASHION, INC.	ALLEN BELL	785-418-4656		JHOLMES@FASHIONINC.COM	NORTHEAST, ATLANTIC, AND SOUTHEAST REGIONS
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	LANE SUPPLY, INC	LARRY TOLBERT	704-545-7615		LTOLBERT@LANESUPPLYINC.COM	WEST, MIDWEST, AND SOUTHWEST REGIONS
FANS	C10-440	TOM BARROW COMPANY/ TPI	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HEATERS	C10-440	TOM BARROW COMPANY/SCHWANK	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
ORDER POINT & CLEARANCE BAR	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
ORDER POINT & CLEARANCE BAR	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILA@UNISTRUCTURES.COM	
WALL PARTITIONS (BATH)	C10-810	CLAYTON FIXTURE (CFX)	STEVE SAMUELSON	404-684-8783		CHICKFILA@CLAYTONFIXTURE.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WALL PARTITIONS (BATH)	C10-810	DH PACE	CHARLES GIRTMAN	(615) 218-4208		CHICKFILADOORS@DHPACE.COM	
WALL PARTITIONS (BATH)	C10-810	FCC	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	
WALL PARTITIONS (BATH)	C10-810	LOCKNET	ROB OWEN	606-748-2065		ROBO@LOCKNET.COM	
PLAYGROUND EQUIPMENT	C10-900	SOFT PLAY	NED O'BRIEN	678-966-9141		N.OBRIEN@SOFTPLAY.COM	ALL REGIONS
EQUIPMENT (KITCHEN)	C11-000	STRATEGIC / TRIMARK	MITCH WELCH	404-765-8985	EXT. 3700	MWELCH@STRATEGICEQUIPMENT.COM	
POS SYSTEMS	C11-020	CHICK-FIL-A IT	SCOTT SKIPPER	404-684-8524			
POS WIRING AND SECURITY	C11-020	STRONG SECURITY	CHRIS VERCH	678-372-5949		CHRIS.VERCH@STRONGSYSTEM.COM	
ROLLER SHADES	C12-500	BB COMMERCIAL	KEVIN MANNING	310-498-0280		KEVIN.MANNING@GOHFC.COM	
ROLLER SHADES	C12-500	CWC GROUP	RICHARD PELL	366-413-0394		RPELL@COMMERCIALWINDOWCOVERING.COM	
ROLLER SHADES	C12-500	ROLLASHADE	DEANNA MCCOY	951-245-5077	EXT. 116	DEANNA.MCCOY@ROLLASHADE.COM	ADDITIONAL EMAIL : OFFICE@ROLLASHADE.COM
INTERIOR SEATING/ DECOR	C12-540	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS (EXCLUDING DEX COUNTERS)
INTERIOR SEATING/ DECOR	C12-540	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION (EXCLUDING DEX COUNTERS)
DEX TABLES & COUNTERS (WHEN REQD.)	C12-560	DEX INDUSTRIES	SHANNON PHILLIPS	404-753-0600		CUSTOMERSERVICE@DEXINDUSTRIES.COM	
EXTERIOR SEATING/ UMBRELLAS	C12-570	STRATEGIC / TRIMARK	MITCH WELCH	404-765-8985	EXT. 3700	MWELCH@STRATEGICEQUIPMENT.COM	
MESSAGING (INTERIOR)	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
MESSAGING (INTERIOR)	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
STEEL WALL FABRICATION	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
STEEL WALL FABRICATION	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
PLUMBING (RESTROOM FIXTURES)	C15-400	HJC DIST. (TOTO, USA)	BARRY BRYANT	800-459-7099		CF@HJCINC.COM	TOTO VALVES & FIXTURES
MOP SINK GRATE & TRIM	C15-420	LOWTEMP	ANGIE NORRIS	770-478-8803		ANORRIS@LOWTEMPIND.COM	
AIR DOORS	C15-715	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HVAC EQUIPMENT	C15-730	LENNOX NATIONAL ACCOUNTS	TERRY BUCHANAN	678-446-7554		TERRY.BUCHANAN@LENNOXIND.COM	
AIR DEVICES	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
FANS & CURBS (EXHAUST)	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HOODS & PIN & SLEEVE BOXES	C15-836	HALTON HOODS	PHIL MEREDITH	800-442-5866		PHIL.MEREDITH@HALTON.COM	
JER-AIR START COLLARS	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
CONTROLS	C16-200	SUNCOAST ENVIRONMENTAL	SCOTT DYER	877-544-6679		SECONTROLSSED@AOL.COM	
PANELBOARDS	C16-200	ACCUSERV	BOB HARPRING	877-707-7378		BHARPRING@ACCU-SERV.COM	SOUTHEAST, ATLANTIC, & NORTHEAST REGIONS
PANELBOARDS	C16-200	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, SOUTHWEST, & WEST REGIONS
LIGHTING	C16-510	ACCUSERV	BOB HARPRING	502-961-0096		BHARPRING@ACCU-SERV.COM	SOUTHEAST & ATLANTIC REGIONS
LIGHTING	C16-510	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, NORTHEAST, SOUTHWEST, & WEST 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, TRELLAGE, & 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						
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. SEE FINISH PLANS FOR LOCATIONS
TILE, VINYL & WOOD WALL BASES			O	O	O						INCLUDES INSTALLATION OF INTEGRATED OWNER SIGNAGE/GRAPHICS
WALL TILE & TRIM			O	O	O						COORDINATE WITH OWNER FOR PRICING PRIOR TO ORDERING
TILED LOW WALLS			O	O	O						
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 CLAYTON FIXTURE. INCLUDES WALL PREP. & SEALING.
WHITE 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 CANOPIES & ATTACHMENT ACCESSORIES						O	O				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
EXTERIOR WALL ASSEMBLY			O	O	O						
EXTERIOR FINISHES			O	O	O						
ANSUL 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	O						G.C. TO COORD. W/ FIRE MARSHAL COMPLY WITH LOCAL CODE REQU.
AIR CURTAIN			O	O	O						G.C. TO PURCHASE THRU VENDOR
WATER FILTRATION				O	O	O					
WINDOW TREATMENTS			O	O	O						G.C. TO PURCHASE THRU VENDOR
HVAC UNITS			O	O	O						INSTALLED BY STRATEGIC EQUIPMENT
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.
RESTROOM PLUMBING FIXTURES AND ACCESSORIES			O	O	O	O					SEE RESTROOM SCHEDULE

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 LOCKNET, EXCLUDING THE HARDWARE FOR THE FOLLOWING DOORS: EXTERIOR STOREFRONTS, PLAY AREA DOOR, ELIASON DOOR, AND BOTH THE EXTERIOR AND INTERIOR SERVICE YARD DOORS.

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

Chick-fil-A
5200 Buffington Road
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STATE OF MISSOURI
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE
SHEET NUMBER
G-004

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02859-G-004-RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
07/19/2022

DEMOLITION REQUIREMENTS:

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF FIXTURES, EQUIPMENT, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AS SHOWN ON DRAWING OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.
3. NOTES INDICATING DEMOLITION WORK ARE NOT CONFINED SOLELY TO THE DEMOLITION NOTES. THE GENERAL CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUSIVE OF SCHEDULES AND SPECIFICATIONS, TO DETERMINE FULL EXTENT OF DEMOLITION WORK.
4. WHEN REMOVING STRUCTURAL ITEMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION.

DEMO PLAN NOTES:

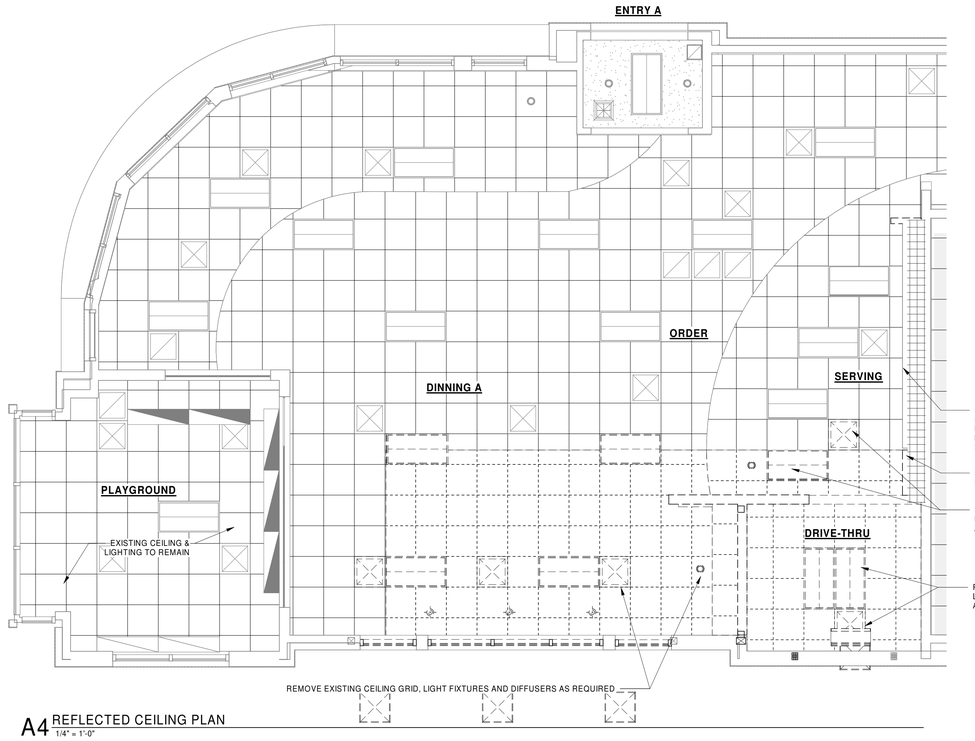
1. ITEMS SHOWN DASHED ARE TO BE REMOVED. VERIFY ACTUAL SITE CONDITIONS WITH FIELD SURVEY.
2. VERIFY NEW SERVING COUNTER REQUIREMENTS WITH SITE SPECIFIC FURNITURE DRAWINGS. COORDINATE WITH DEMOLITION PLAN.
3. SITE ADAPT ARCHITECT TO FIELD VERIFY PASS-THRU WINDOW CONFIGURATION- CENTERLINE, SING LINE, OR DUAL LINE KITCHEN. ADJUST PLAN & INTERIOR ELEVATIONS TO MATCH FIELD CONDITIONS.
4. ALL PUSH/PULL HARDWARE ON ALL STOREFRONT DOORS ARE TO BE REPLACED WITH NEW CLEAR ANODIZED HARDWARE. CONFIRM SPECIFICATIONS WITH NATIONAL VENDOR.
5. REFER TO SITE SPECIFIC SCOPE OF WORK FOR PLAYGROUND AREA.
6. COORDINATE ACTUAL PROJECT SCOPE OF WORK WITH FIELD SURVEY.

DEMO RCP NOTES:

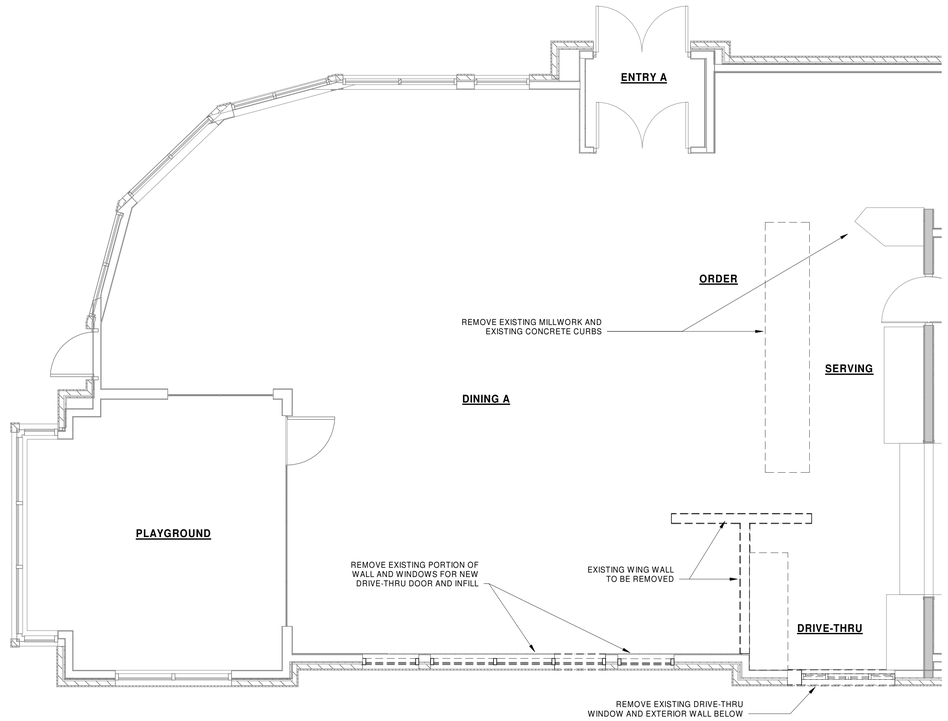
1. ITEMS SHOWN DASHED ARE TO BE REMOVED. VERIFY ACTUAL SITE CONDITIONS WITH FIELD SURVEY.
2. ALL HVAC DIFFUSERS TO BE REMOVED AND REPLACED WITH NEW.
3. VERIFY EXTENT OF LIGHT FIXTURE REPLACEMENT WITH FIELD SURVEY.
4. UNLESS A NEW CEILING HAS BEEN ADDED RECENTLY THROUGH A FACILITIES & EQUIPMENT PROJECT (GC AND FIELD CONSULTANT TO VERIFY WITH FIELD SURVEY), REMOVE AND DISCARD EXISTING ACT GRID AND CEILING SYSTEM THROUGHOUT THE DINING AREA. ALL CEILING LIGHTING TO BE REPLACED IN KIND AND IN EXISTING LOCATIONS.

PLAYGROUND DEMOLITION NOTES:

1. G.C. AND CFA FIELD CONSULTANT TO PERFORM SURVEY AND DETERMINE THE INSTALLED PLAYGROUND SYSTEM.
2. EXAMINE EXISTING FLOORING FOR REPAIR AND REPLACEMENT WITH CFA PROJECT MANAGER. SCOPE OF WORK WILL BE DETERMINED AFTER FIELD EVALUATION.
3. REMOVE EXISTING PLAYGROUND NETTING AND PADDING AND PROVIDE NEW IF NOTED ON SCOPE OF WORK.
4. EXISTING FRP SHALL ONLY BE REMOVED IF DAMAGED BEYOND REPAIR.



A4 REFLECTED CEILING PLAN
1/4" = 1'-0"



A2 DEMOLITION PLAN
1/4" = 1'-0"

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STATE OF MISSOURI
STEVEN L. BAKER
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CHICK-FIL-A
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LEE'S SUMMIT, MO 64086

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BUILDING TYPE / SIZE: S08 N-SML-R
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REVISION SCHEDULE

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CONSULTANT PROJECT # 02859

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DRAWN BY Author
DESIGNED BY Designer

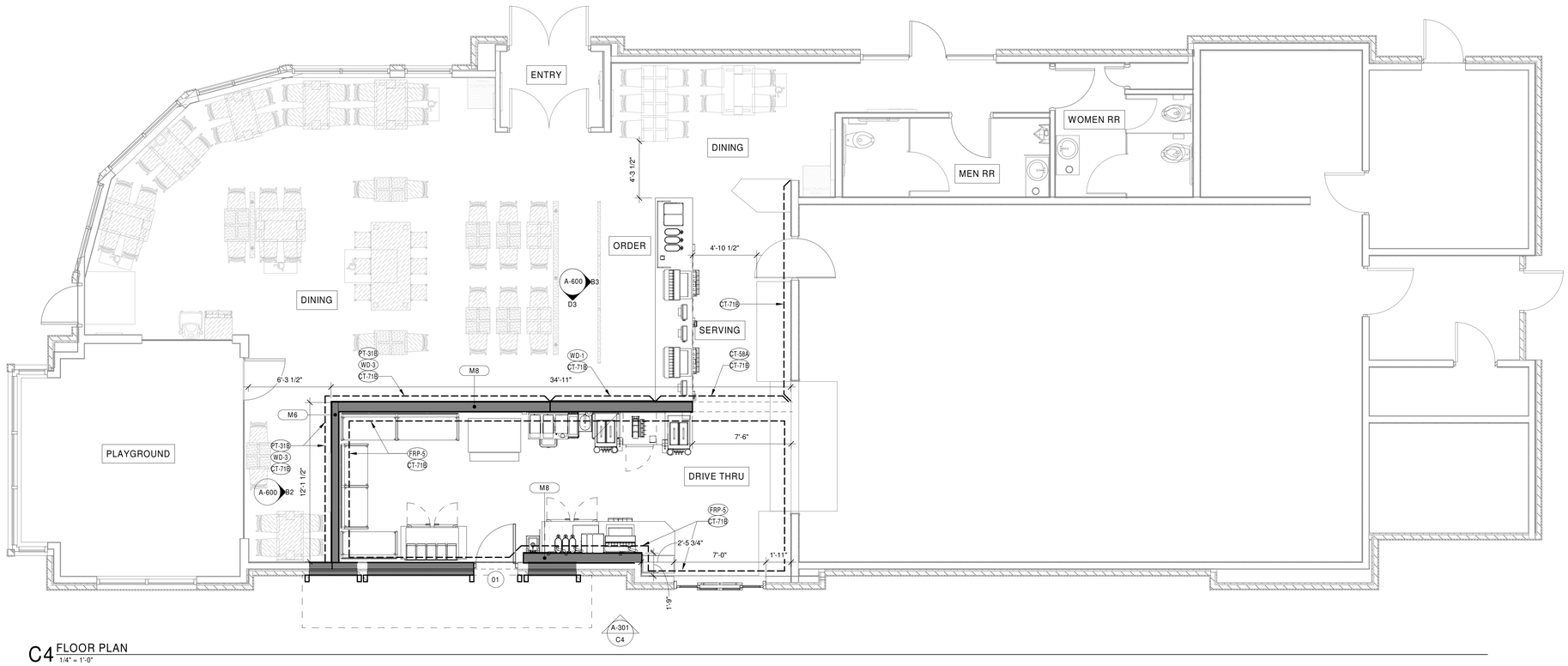
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SHEET
DEMOLITION PLAN

SHEET NUMBER
A-050

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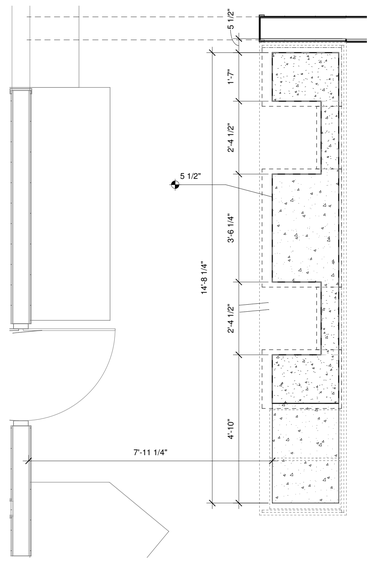
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Lee's Summit, Missouri
07/19/2022



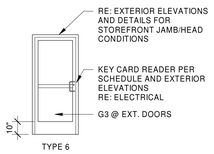
C4 FLOOR PLAN
1/4" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DESCRIPTION	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR SIZE THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR HARDWARE	FRAME MATERIAL	FRAME FINISH	REMARKS
01	PARALLEL DRIVE-THRU	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	CLEAR ANODIZED	SET #21	ALUMINUM	CLEAR ANODIZED; MATCH EXISTING	



A4 MILLWORK CURB PLAN
N.T.S.



B4 DOOR TYPES
N.T.S.

DOOR HARDWARE SCHEDULE

SET	SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
SET #21 - ENTRY (KEYCARD).							
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #21 - ENTRY (KEYCARD)	YKK OR KAWNEER	1	ELECTRIC STRIKE	HES	9400	HES	7089

CALLOUT TAGS

SECTIONS 1 / A000 — SIM — DETAIL

ELEVATIONS 1 / A000 — SIM — EXTERIOR; 1 / A000 — SIM — INTERIOR

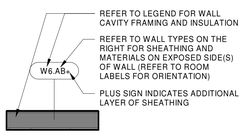
VIEWS

1 View Name
1/8" = 1'-0"
VIEW TITLE

ITEM TAGS

X#X# — WALL; XX-# — FINISH

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

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.

GENERAL REQUIREMENTS

1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE (IF APPLICABLE) BUILDING CODES, NATIONAL ELECTRIC CODE, ADA-ADAAGS AND OTHER ADOPTED ACCESSIBILITY STANDARDS, OSHA, AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING BUILDING SECURITY AT ALL TIMES. THIS INCLUDES KEEPING THE BUILDING SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS OR HAZARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE INTEGRITY OF ALL EXISTING SECURITY SYSTEMS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE STORE MANAGER PRIOR TO THE MODIFICATION OF ANY EXISTING SECURITY SYSTEM.
3. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND FREE OF DEBRIS AND REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING.
4. REMOVE ANY EXISTING EQUIPMENT, FIXTURES, FURNISHINGS, ACCESSORIES, SERVICES, FINISHES OR SURFACES AS REQUIRED, SHOWN OR NOT SHOWN, FOR THE INSTALLATION OF NEW CONSTRUCTION. PROVIDE FURRING FOR CONDUITS AND PIPING, SHOWN OR NOT, AND FINISH OUT FURRING TO MATCH ADJACENT EXISTING FINISHES.
5. WHEN EQUIPMENT, FIXTURES, FURNISHINGS, ACCESSORIES, SERVICES, FINISHES OR SURFACES ARE TEMPORARILY REMOVED OR RELOCATED IN ORDER TO PERFORM WORK, THE CONTRACTOR IS RESPONSIBLE FOR RETURNING THEM TO THEIR ORIGINAL POSITION, RECONNECTION OF SERVICES AND APPROPRIATE MEANS OF ATTACHMENT UNLESS SPECIFICALLY DIRECTED TO DO OTHERWISE.
6. REPAIR, RE-ROUTE, AND EXTEND ALL SERVICES, PIPING, CONDUIT OF EXISTING ITEMS AND EQUIPMENT AS REQUIRED DURING THE CONSTRUCTION PROCESS FOR THE COMPLETE INSTALLATION AND OPERATIONS OF NEW EQUIPMENT. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS. RESET EXISTING EQUIPMENT OR RELATED ITEMS AS REQUIRED FOR PROPER OPERATION.
7. WHERE EXISTING FINISHES ARE TO REMAIN, CLEAN, REPAIR, PATCH AND REPAINT AS NECESSARY TO BLEND IN WITH ADJACENT WORK. COORDINATE WITH CHICK-FIL-A CONSTRUCTION MANAGER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ORDERING OF MATERIALS TO PROHIBIT DELAYS OF THE CONSTRUCTION SCHEDULE OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DELIVERY OF MATERIALS IN A TIMELY MANNER.
9. ALL EQUIPMENT TO BE SUPPLIED BY OWNER AND INSTALLED BY GC UNLESS NOTED OTHERWISE.

FIRE SPRINKLER/STANDPIPE/FIRE ALARM WORK NOTES:

1. A CONTRACTOR PROPERLY LICENSED BY THE STATE FIRE MARSHAL MUST DO THE WORK.
2. THE LICENSED CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE AUSTIN FIRE DEPT. FOR REVIEW AND APPROVAL, AFTER THE BUILDING PERMIT IS APPROVED. THESE SHOP DRAWINGS MUST BE APPROVED BY THE AUSTIN FIRE DEPT. PRIOR TO THE CONTRACTOR BEGINNING THE WORK.
3. INDICATE THE APPLICABLE NFPA STANDARD **AND EDITION** (NFPA 13, 13R, 13D, 14, OR 72), AND THAT ALL WORK MUST BE IN COMPLIANCE WITH THE CITED NFPA STANDARDS AND THE CURRENTLY ADOPTED EDITION OF THE INTERNATIONAL FIRE CODE (IFC) AS AMENDED BY THE CITY OF AUSTIN.
4. ALLOW MINIMUM 5 WORKING DAYS FOR REMODELED SYSTEMS, AND 15 WORKING DAYS FOR NEW SYSTEMS PLANS REVIEWS. REVIEW TIMES MAY BE LONGER DEPENDING ON WORK LOAD.

WALL NOTES

WALL INSULATION NOTES

- B.1 WHERE EXTERIOR METAL STUD WALL TYPE REQUIRES BATT INSULATION, USE R-19 FOIL FACED BATT INSULATION.
- B.2 WHERE EXTERIOR WOOD STUD WALL REQUIRES BATT INSULATION, USE R-19 KRAFT FACED FIBERGLASS BATT INSULATION WITH FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPED INDEX OF NOT MORE THAN 450.
- B.3 WHERE EXTERIOR STUD WALLS REQUIRE BATT INSULATION, EXTEND INSULATION UP 12" ABOVE ROOFTOP RIGID INSULATION.
- B.4 AT INTERIOR METAL STUD WALLS WHERE INSULATION IS SCHEDULED, USE 3-1/2" FOIL FACED BATT INSULATION.
- B.5 AT INTERIOR WOOD STUD WALLS WHERE INSULATION IS SCHEDULED, USE 3-1/2" BATT INSULATION WITH MAXIMUM FLAME SPREAD INDEX OF 25.
- B6. NOT USED

INTERIOR WALL FRAMING NOTES

- C.1 UNLESS NOTED OTHERWISE, EXTEND FRAMING TO 6" ABOVE ADJACENT CEILING
- C.2 AT DRAFT STOPPING PARTITION INTERIOR WALLS, EXTEND FRAMING TO ROOF DECK AS REQUIRED TO ACCOMMODATE SMOKE BARRIER.
- C.3 WHERE INTERIOR WALLS ARE NOT INSULATED AND NOT A DARFT STOPPING PARTITION, FRAMING MAY STOP 6" ABOVE HIGHEST ABUTTING FINISH CEILING.
- C.4 WHERE INTERIOR WALL FRAMING DOES NOT EXTEND TO STRUCTURE ABOVE, BRACE INTERIOR WALLS AS REQUIRED FOR COMPLIANCE WITH BUILDING CODE, REF BUILDING DATA ON COVER SHEET.
- C.5 FRAMING AT NON-LOADBEARING INTERIOR WALLS SHALL MEET REQUIREMENTS OF APPLICABLE BUILDING CODES AND LOCAL AMENDMENTS.

EXTERIOR WALL FRAMING NOTES

- D.1 SEE STRUCTURAL DRAWINGS FOR STUD DIMENSIONS AND SPACING.
- D.2 AT WOOD STUD EXTERIOR WALLS, USE TREATED SILL PLATES.

EXTERIOR SHEATHING NOTES

- E.1 REFER TO STRUCTURAL FOR EXTERIOR SHEATHING TYPES.

BLOCKING NOTES

- F.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.

INTERIOR WALL FINISH & INTERIOR SHEATHING NOTES

AT MATERIALS LABELED "INTERIOR SHEATHING" ON WALL TYPE DRAWINGS AND DETAILS, SHEATHING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR FINISH MATERIAL ON INTERIOR SHEATHING. DO NOT USE WOOD SHEATHING WITHIN 18" OF HOODS.

- G.1 WHERE SHEATHING IS EXPOSED: 1/2" GYPSUM BOARD, PAINTED PER INTERIOR ELEVATIONS AND FINISH PLAN.
- G.2 BETWEEN WALL TILE AND STUDS: 1/2" CEMENTITIOUS BACKER BOARD.
- G.3 BETWEEN FRP PANELS AND WOOD STUDS AT BACK OF HOUSE: COMPOSEAL GOLD 40 MIL WATERPROOF MEMBRANE AND 1/2" CEMENTITIOUS BOARD TO 1'-0" ABOVE SLAB. 1/2" CDX PLYWOOD SUBSTRATE ABOVE CEMENTIOUS BOARD TO 1'-0" ABOVE CEILING. RE: TYPICAL WALL BASE DETAIL.
- G.4 BETWEEN FRP PANELS AND METAL STUDS: COMPOSEAL GOLD 40 MIL WATERPROOF MEMBRANE AND 1/2" CEMENTIOUS BOARD TO 1'-0" ABOVE SLAB. 1/2" CEMENTITIOUS BOARD TO 4" ABOVE CEILING, EXCEPT AT AREAS WHERE DRAFTSTOPPING IS REQUIRED. REFER TO DRAFTSTOPPING DETAILS FOR THOSE AREAS.
- G.5 BETWEEN FRP PANELS AND WOOD STUDS AT PLAY AREA: 1/2" GYPSUM BOARD.
- G.6 BETWEEN STAINLESS STEEL PANELS AND METAL STUDS: 1/2" CEMENTIOUS BOARD.
- G.7 BETWEEN STAINLESS STEEL PANELS AND WOOD STUDS: 1/2" CEMENTIOUS BOARD.
- G.8 BETWEEN WALLCOVERING AND STUDS: 1/2" GYPSUM BOARD.
- G.9 BETWEEN WOOD WAINSCOT AND WOOD STUDS: 1/2" PLYWOOD.
- G.10 BETWEEN WOOD WAINSCOT AND METAL STUDS: 1/2" PLYWOOD.
- G.11 BETWEEN FREEZER/COOLER WALLS AND WOOD STUD WALLS: 1 FT TALL CEMENT BOARD BASE WITH 1/2" GYPSUM BOARD (LEVEL 1 FINISH) TO 6" ABOVE FINISH CEILING. EXTEND 40 MIL COMPOSEAL GOLD WATERPROOF MEMBRANE FROM FLOOR AS INDICATED ON FINISH PLAN UP WALL AS INDICATED ON FREEZER AND COOLER SCREED DETAILS.
- G.12 BEHIND WOOD BOARD FINISH AT ICON WALL: 3/4" PLYWOOD.
- G.13 BEHIND WOOD BOARD FINISH AT OTHER LOCATIONS: 1/2" PLYWOOD.

INTERIOR BASE FINISH & SHEATHING NOTES

AT MATERIALS LABELED "INTERIOR SHEATHING" ON WALL TYPE DRAWINGS AND DETAILS, MATERIALS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR BASE FINISH MATERIAL.

- H.1 BETWEEN TILE BASE AT KITCHEN AND STUDS: 1/2" CEMENTITIOUS BACKER BOARD TO MINIMUM 1'-0" ABOVE SLAB.
- H.2 BETWEEN TILE BASE AT NON-KITCHEN AREAS AND STUD WALLS: 1/2" CEMENT BACKER BOARD TO MINIMUM 5" ABOVE SLAB.
- H.3 BETWEEN VINYL BASE AND WOOD STUD WALLS: 1/2" GYPSUM BOARD.

MOLD AND MILDEW NOTES:

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.

FLOOR PLAN GENERAL NOTES

- A.1 DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD (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 FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.

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STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022006460
ARCHITECT
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DN: E=steven.baker@hfa-ac.com, CN=Steven Louis Baker, O=Harrison French and Associates, L=Bentonville, S=ARKANSAS, C=US
Date: 2022.07.13 09:21:16 -05'00'
STEVEN L BAKER
A-2022006460
HARRISON FRENCH & ASSOCIATES, LTD
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

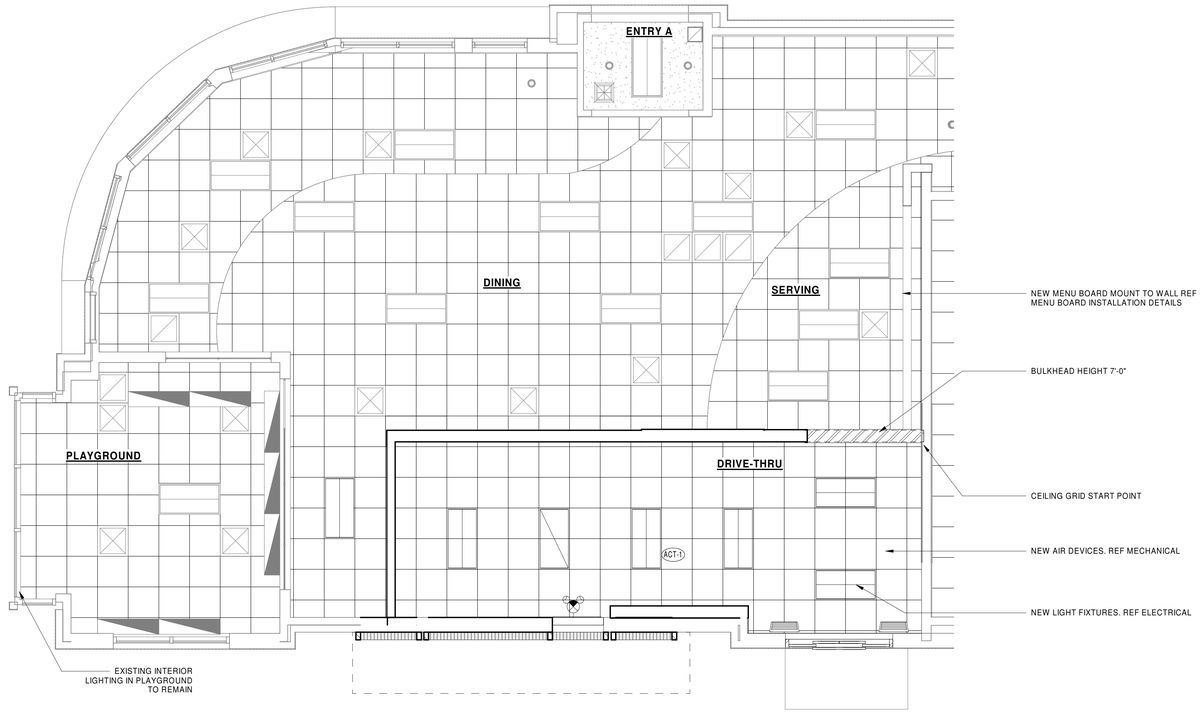
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SHEET FLOOR PLAN

SHEET NUMBER **A-201**

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7/12/2022 2:49:41 PM
02859-A-201-FLOOR PLAN



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

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

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.

LEGEND:

- LAY-IN CEILING TILE
- CEILING GRID START POINT
- GYPSUM BOARD RE: FINISH PLAN FOR FINISHES
- EXTERIOR CANOPY
- 2' X 4' RECESSED LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- 2' X 4' RECESSED EMERGENCY LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- RECESSED CAN LIGHT FIXTURE RE: ELECTRICAL
- RECESSED EMERGENCY CAN LIGHT FIXTURE - RE: ELECTRICAL
- EXIT LIGHT - WALL MOUNTED RE: ELECTRICAL
- EXTERIOR SCONCE LIGHT FIXTURE SEE EXTERIOR ELEVS FOR LOCATIONS RE: ELECTRICAL
- DROP CORDS RE: ELECTRICAL
- PENDANT LIGHT FIXTURE RE: ELECTRICAL
- DOME LIGHT FIXTURE RE: ELECTRICAL
- SPEAKER - VENDOR TO VERIFY LOCATIONS W/ GC
- PEACH BASKET PENDANT RE: ELECTRICAL
- COCA-COLA PENDANT FIXTURE
- SUPPLY AIR VENT RE: MECHANICAL
- RETURN AIR VENT RE: MECHANICAL
- WALL DIFFUSER RE: MECHANICAL
- AIR CURTAIN RE: MECHANICAL
- FLY LIGHT (BOH) RE: KITCHEN
- FLY LIGHT (FOH) RE: KITCHEN

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DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

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CONSULTANT PROJECT # 02859

DATE 05/20/2022
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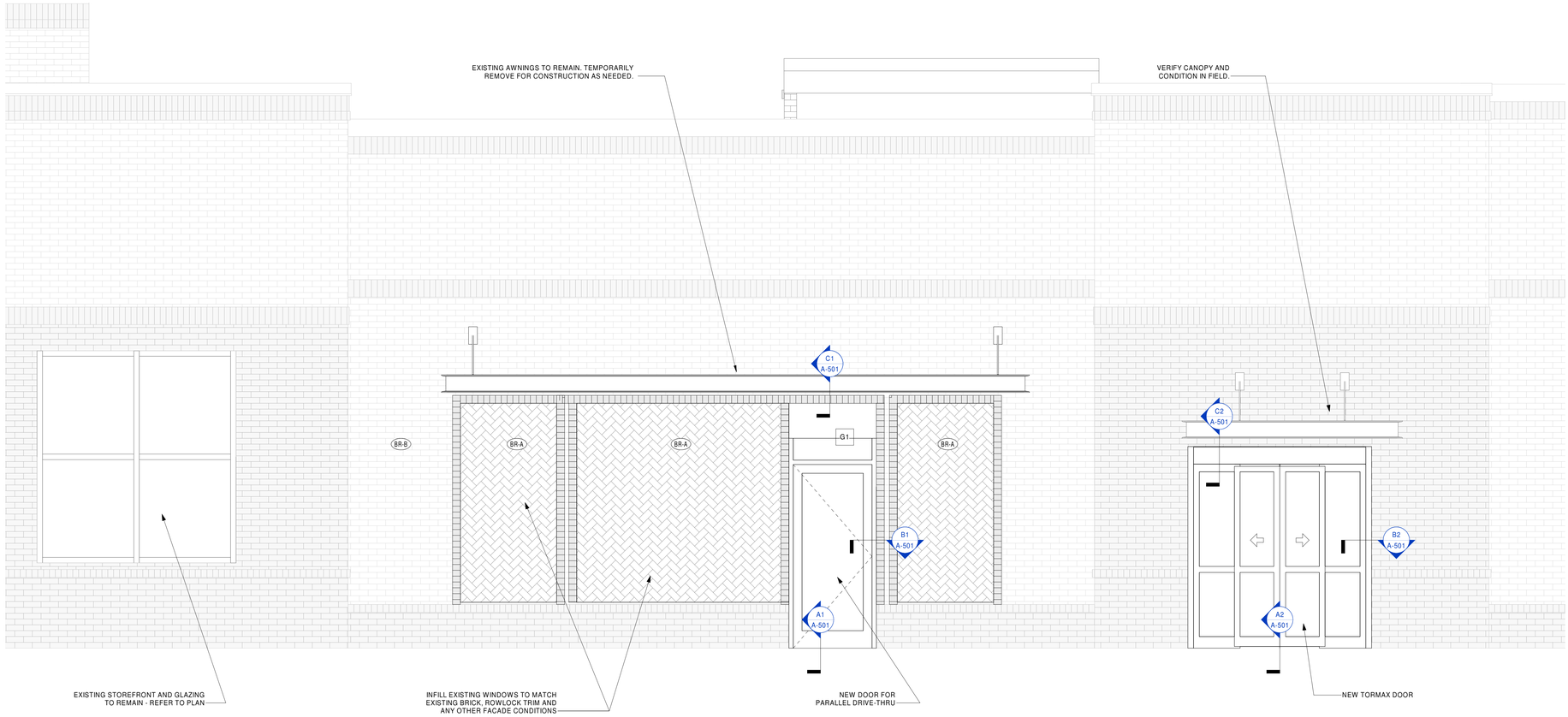
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SHEET
REFLECTED CEILING PLAN

SHEET NUMBER
A-221

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02859-A-221-REFLECTED CEILING PLAN

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Lee's Summit, Missouri
07/19/2022



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

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	BRICK VENEER	GLEN GERY BRICK	MODULAR		RED VELOUR	MORTAR: HOLCIM, DESIGNER TAN
BR-B	BRICK VENEER	GLEN GERY BRICK	MODULAR		BOULDER GREY	EXISTING TO REMAIN, PATCH AS REQUIRED. MORTAR: HOLCIM, DESIGNER TAN

GLAZING SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
G1	1/4"	TEMPERED	CLEAR	

CANOPY NOTES:

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

DETACHED CANOPIES - 10" THICK CANOPY
- SEE RCP AND EXTERIOR ELEVS FOR FINISHES

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Date: 2022.07.13 09:27:27-05'00'

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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
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FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
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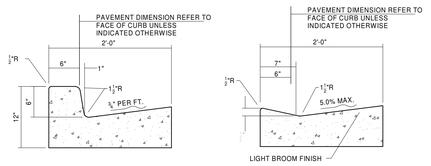
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SHEET EXTERIOR ELEVATIONS

SHEET NUMBER **A-301**

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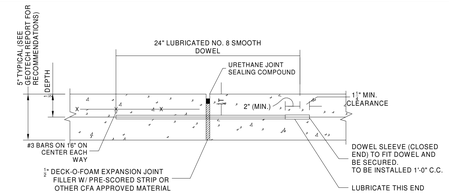


A TYPE "B" CURB & GUTTER

B TYPE "H" MOUNTABLE CURB & GUTTER

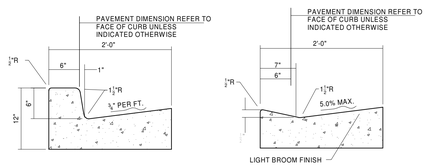
NOTES:
1. CONC. FOR CURBING SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS
2. CONTRACTION JOINTS @ 1'-0" O.C. TOOLED ¼" (± 1/16", -0) WIDE, 1" OR MAX. D/4 DEPTH WHICHEVER IS GREATER. EXPANSION JOINTS @ 40'-0" MAX. UNLESS NOTED OTHERWISE ON PLANS
3. IF NEEDED, DOWEL INTO ADJACENT CONC. SLAB PER THE EXPANSION JOINT DETAIL.
4. GUTTER SLOPE TO MATCH ADJACENT PAVEMENT, TRAVERSE & LONGITUDINAL.

E2 C-CONTRACT JOINT
N.T.S.



NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL EQUIPMENT.
4. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO WET CONCRETE NOT ACCEPTABLE.
5. JOINT SPACING TO BE 24'X24' (EVERY OTHER JOINT)

E1 C-EXPANSION JOINT
N.T.S.

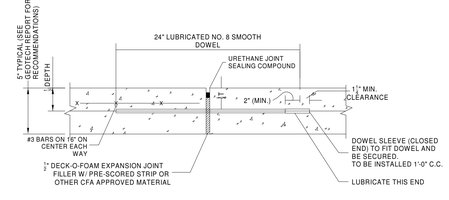


A TYPE "B" CURB & GUTTER

B TYPE "H" MOUNTABLE CURB & GUTTER

NOTES:
1. CONC. FOR CURBING SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS
2. CONTRACTION JOINTS @ 1'-0" O.C. TOOLED ¼" (± 1/16", -0) WIDE, 1" OR MAX. D/4 DEPTH WHICHEVER IS GREATER. EXPANSION JOINTS @ 40'-0" MAX. UNLESS NOTED OTHERWISE ON PLANS
3. IF NEEDED, DOWEL INTO ADJACENT CONC. SLAB PER THE EXPANSION JOINT DETAIL.
4. GUTTER SLOPE TO MATCH ADJACENT PAVEMENT, TRAVERSE & LONGITUDINAL.

D2 C-TRAVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT
N.T.S.



NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL EQUIPMENT.
4. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO WET CONCRETE NOT ACCEPTABLE.
5. JOINT SPACING TO BE 24'X24' (EVERY OTHER JOINT)

D1 C-CONCRETE PAVEMENT DRIVE THRU
N.T.S.

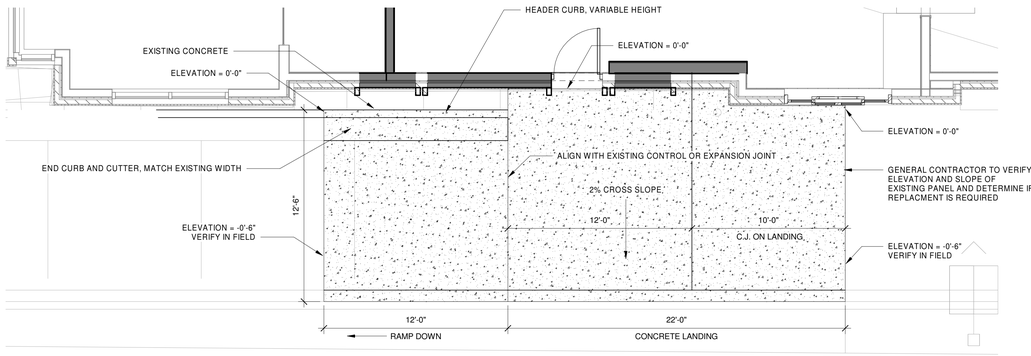
A TYPE "B" CURB & GUTTER

B TYPE "H" MOUNTABLE CURB & GUTTER

NOTES:
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2. CONTRACTION JOINTS @ 1'-0" O.C. TOOLED ¼" (± 1/16", -0) WIDE, 1" OR MAX. D/4 DEPTH WHICHEVER IS GREATER. EXPANSION JOINTS @ 40'-0" MAX. UNLESS NOTED OTHERWISE ON PLANS
3. IF NEEDED, DOWEL INTO ADJACENT CONC. SLAB PER THE EXPANSION JOINT DETAIL.
4. GUTTER SLOPE TO MATCH ADJACENT PAVEMENT, TRAVERSE & LONGITUDINAL.

C2 C-CONCRETE CURB AND GUTTER
N.T.S.

C1 C-SIDEWALK WITH CURB
N.T.S.



A2 FLOOR PLAN
N.T.S.

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STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022006460
REGISTERED ARCHITECT

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DRIVE-THRU EXPANSION

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FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
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REVISION SCHEDULE

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DESIGNED BY Designer

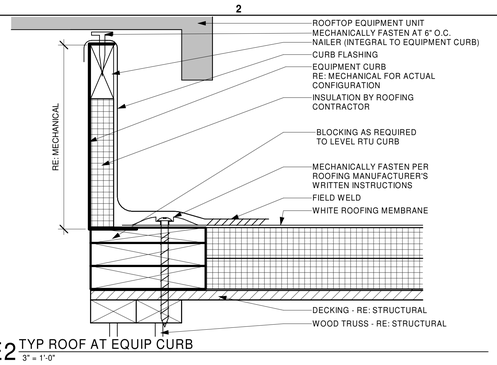
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SHEET
ENLARGED EXTERIOR PLAN

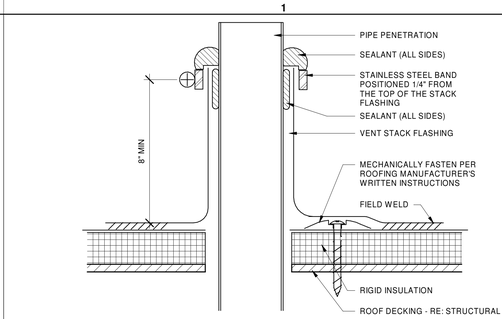
SHEET NUMBER
A-401

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02859-A-401-ENLARGED EXTERIOR PLAN

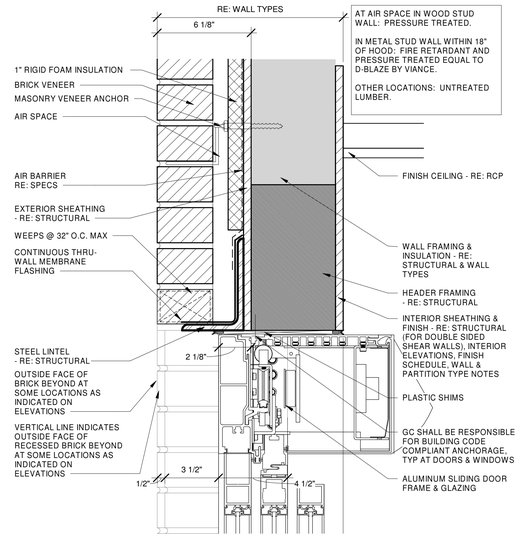
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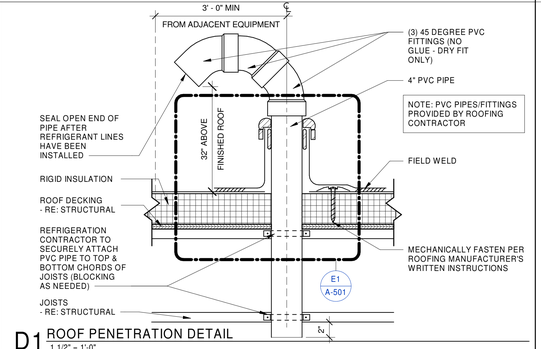
E2 TYP ROOF AT EQUIP CURB
3" = 1'-0"



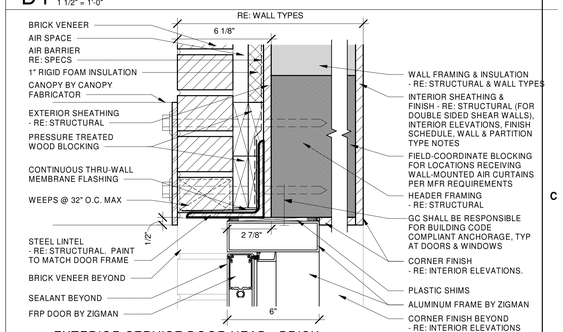
E1 TYP ROOF PENETRATION DETAIL
3" = 1'-0"



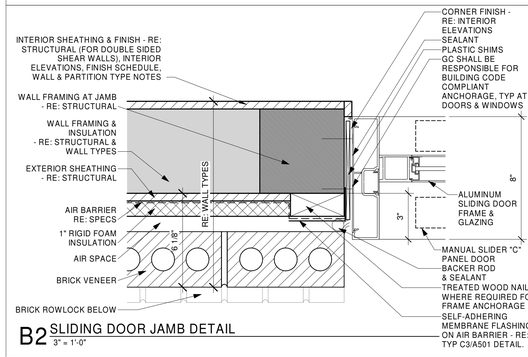
C2 DRIVE-THRU DOOR HEAD
3" = 1'-0"



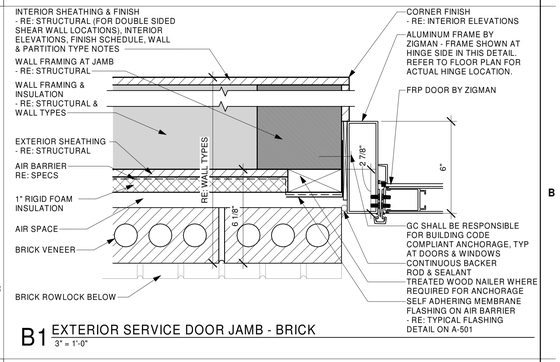
D1 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



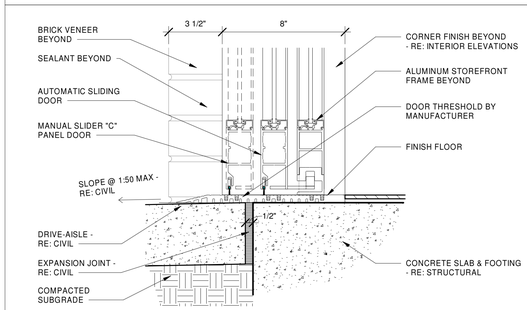
C1 EXTERIOR SERVICE DOOR HEAD - BRICK
3" = 1'-0"



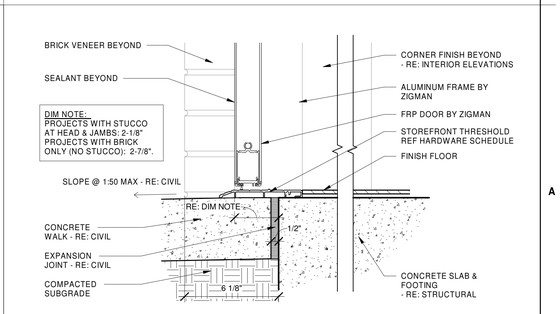
B2 SLIDING DOOR JAMB DETAIL
3" = 1'-0"



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



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



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

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STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022006460
Digitally signed by Steven Louis Baker
DN: E=steven.baker@hfa-ae.com, CN=Steven Louis Baker, O=Harrison French and Associates, L=Bentonville, S=ARKANSAS, C=US
Date: 2022.07.13 10:32:10 -05'00'
STEVEN L. BAKER
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690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-501

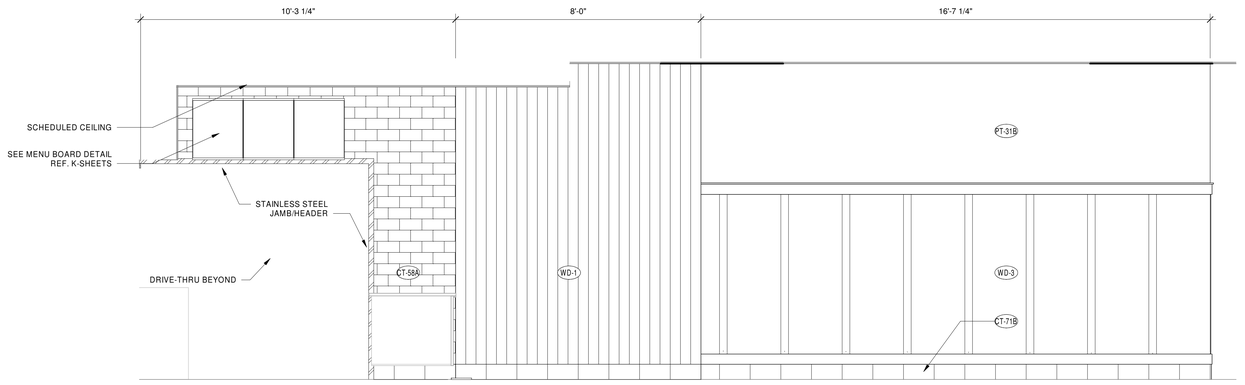
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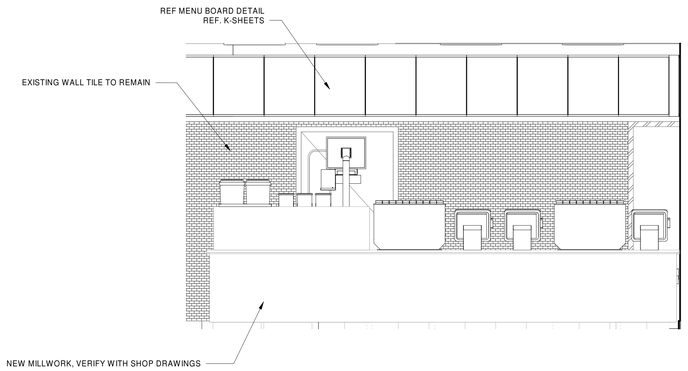
Development Services Department
Lee's Summit, Missouri
07/19/2022

INTERIOR ELEVATION GENERAL NOTES

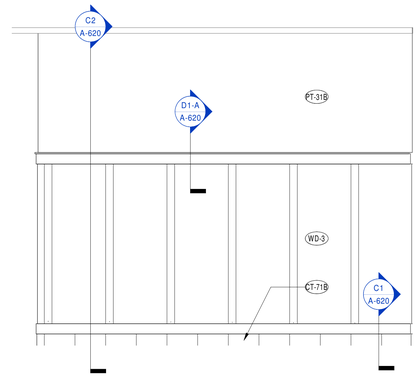
A.1 REFER TO SHEET A-622 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4/A-622 FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS 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 C2/A-621 FOR DETAIL.
A.9 REFER TO E2/A-621 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



D3 DINING A NORTH THROUGH PLAYGROUND
N.T.S.



B3 SERVING ELEVATION
N.T.S.



B2 NEW DINING ELEVATION
N.T.S.

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"
04_WALL BASE FINISHES							
CT-71B	PORCELAIN TILE COVE BASE	CREATIVE MATERIALS CORPORATION	LAVA		LIGHT GREY	6" X 12" COVE	JOINT WIDTH: 3/16"
04_WALL FINISHES							
CT-58A	SUBWAY WALL TILE	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-58E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-58F	SUBWAY WALL TILE - BULLNOSE (8" SIDE)	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
FRP-5	FRP WALL PANELS @ KITCHEN	MARLITE	SMARTSTREAM SYMMETRIX	SYM SS100-G63-R1	WHITE SUBWAY	.090" THICK X 4 X 8 PANELS	PROVIDE MARLITE ANODIZED ALUMINUM TRIM FRP MDL SATIN ANODIZE A560 O/C 8' AT OUTSIDE CORNERS
PT-31B	PRIMARY INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: EGGSHELL
WD-1	WHITE OAK 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 MINWAX DRIFTWOOD		RE: DETAILS AND SHOP DRAWINGS FROM MANUFACTURER
05_MISCELLANEOUS FINISHES							
PL-40	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	D-96	SHADOW		FINISH: MATTE #60

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LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

DRAWN BY Author
DESIGNED BY Designer

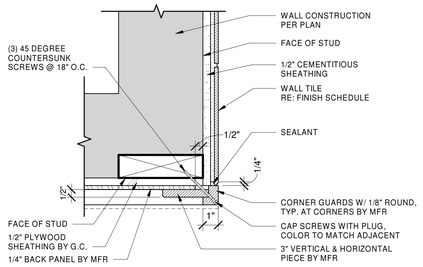
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SHEET
INTERIOR ELEVATIONS

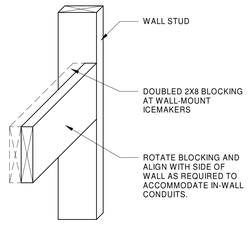
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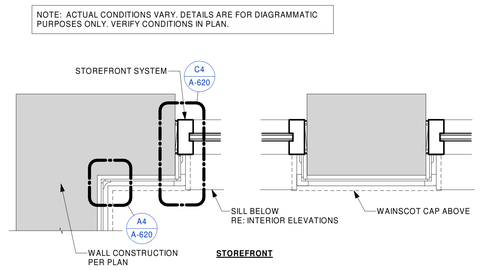
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Development Services Department
Lee's Summit, Missouri
07/19/2022



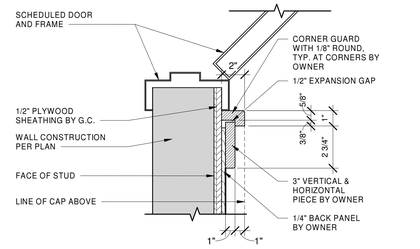
E4 WAINSCOTING TO TILE CORNER
3" = 1'-0"



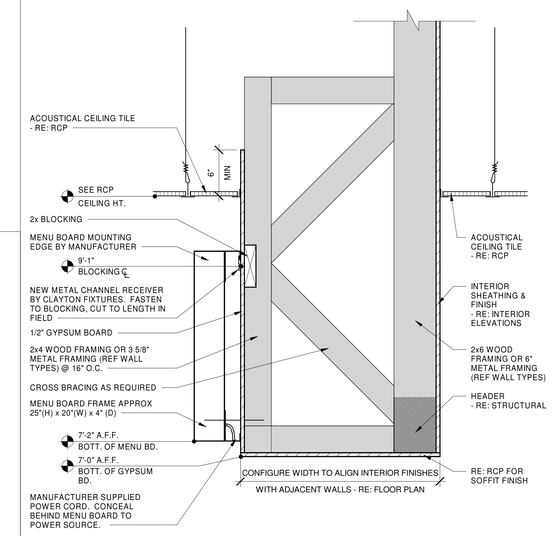
E3 BLOCKING DETAIL
N.T.S.



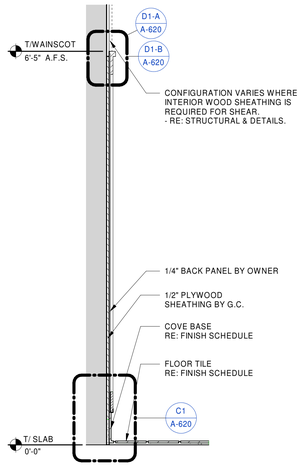
E2 WAINSCOTING PLAN DIAGRAM (FOR SCHEMATIC ONLY)
1 1/2" = 1'-0"



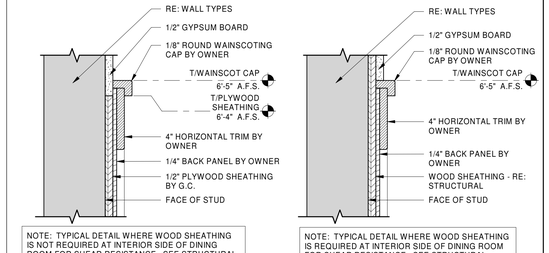
D4 WAINSCOTING AT DOOR JAMB
3" = 1'-0"



C3 MENU BOARD LIGHT BOX DETAIL - LC STORE
1 1/2" = 1'-0"

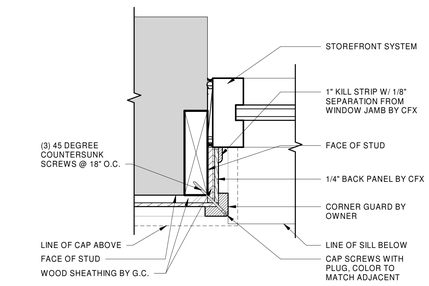


C2 WALL SECTION AT WAINSCOTING
1" = 1'-0"

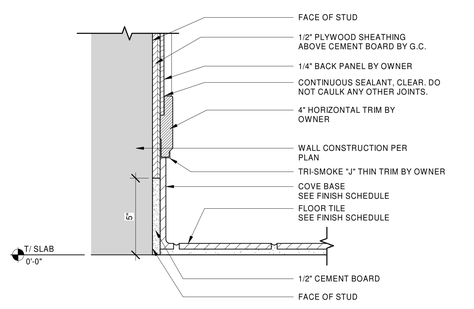


D1-A WAINSCOTING CAP DETAIL
3" = 1'-0"

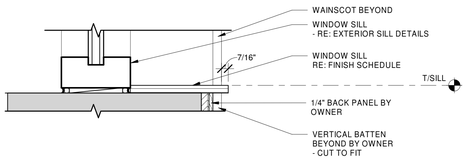
D1-B WAINSCOTING CAP DETAIL
3" = 1'-0"



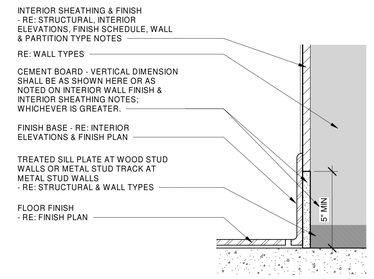
C4 WAINSCOTING AT STOREFRONT
3" = 1'-0"



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

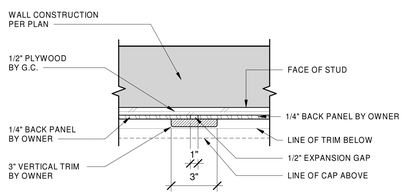


B4 WAINSCOTING AT WINDOW SILL
3" = 1'-0"

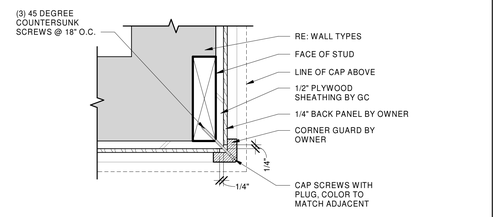


NOTE: TYPICAL AT ALL CUSTOMER ACCESSIBLE AREAS EXCEPT PLAY AREA.

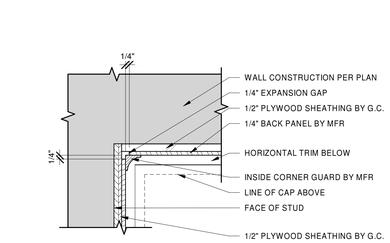
B3 WALL BASE DETAIL
N.T.S.



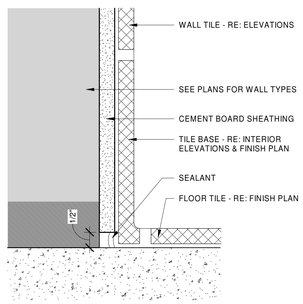
B2 WAINSCOTING TRIM DETAIL
3" = 1'-0"



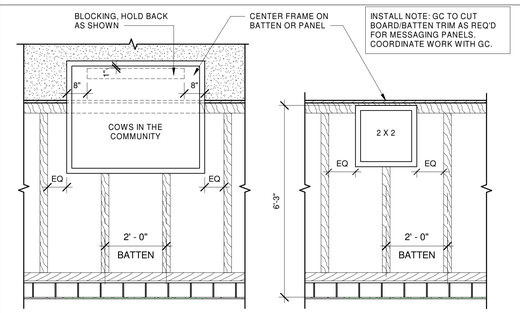
B1 WAINSCOTING OUTSIDE CORNER DETAIL
3" = 1'-0"



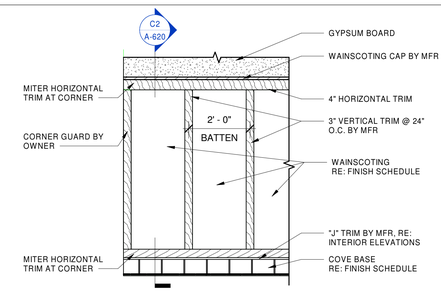
A4 WAINSCOTING INSIDE CORNER DETAIL
3" = 1'-0"



A3 DETAIL AT TILE BASE
N.T.S.



A2 WAINSCOTING ELEVATION AT SIGNAGE
N.T.S.



A1 TYP WAINSCOTING ELEVATION
1/2" = 1'-0"

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ENGINEER
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LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
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SHEET: INTERIOR DETAILS
SHEET NUMBER: **A-620**

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Development Services Department
Lee's Summit, Missouri
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INDEX

A-901
C01010 WORK COVERED BY CONTRACT DOCUMENTS
C01020 OWNER FURNISHED ITEMS
C01030 ALTERNATE AND SUBSTITUTION PROCEDURES
C01040 COORDINATION
C01050 FIELD ENGINEERING
C01300 SUBMITTALS

A-901.2
L01352 LEED REQUIREMENTS (IF APPLICABLE)
L01524 CONSTRUCTION WASTE MANAGEMENT (IF APPLICABLE)

A-902
C01410 TESTING LABORATORY SERVICES - OWNER SUPPLIED
C01510 TEMPORARY UTILITIES
C01520 SECURITY
C01530 PROJECT IDENTIFICATION & SIGNS
C01570 EROSION AND SEDIMENTATION CONTROL
C01700 CONTRACT CLOSEOUT
C01720 PROJECT RECORD DOCUMENTS
C02000 SITE WORK
C02300 SUBSURFACE INVESTIGATION

A-903
C02361 TERMITE CONTROL
C02831 CHAIN LINK FENCES AND GATES: SECURITY
C02920 LANDSCAPING
C03300 CONCRETE FOOTING/SLAB ON GRADE (SEE STRUCTURAL DRAWINGS)
C04810 UNIT MASONRY ASSEMBLIES

A-904
C05000 STRUCTURAL STEEL AND MISCELLANEOUS STEEL (SEE STRUCTURAL DRAWINGS)
C05050 BASIC METAL MATERIALS AND METHODS
C05120 STRUCTURAL STEEL (SEE STRUCTURAL DRAWINGS)
C05400 COLD-FORMED METAL FRAMING (SEE STRUCTURAL DRAWINGS)
C05514 ALUMINUM LADDERS
C06000 CARPENTRY (SEE STRUCTURAL DRAWINGS)
C06100 ROUGH CARPENTRY (SEE STRUCTURAL DRAWINGS)
C06170 PREFABRICATED WOOD TRUSSES (NON-PROTOTYPICAL)
C06200 FINISH CARPENTRY
C06410 SOLID NON-POROUS SHEET AND SHAPE PRODUCTS

A-905
C07210 BUILDING INSULATION
C07464 FIBER REINFORCED HYBRID (RAINSCREEN) SIDING (AS REQD ON ARCH DWGS)
C07530 THERMOPLASTIC MEMBRANE ROOFING
C07600 FLEXIBLE AND SHEET METAL FLASHING

A-906
C07620 ROOF SHEET METAL FLASHING AND TRIM
C07720 ROOFTOP SUPPORT SYSTEMS
C07740 ROOF HATCHES
C07920 SEALANTS AND CAULKING
C08110 STANDARD STEEL DOORS & FRAMES

A-907
C08210 PLASTIC LAMINATE FACED DOORS
C08320 FRP FLUSH DOORS
C08306 ACCESS PANELS
C08344 TRAFFIC DOORS
C08411 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

A-908
C08580 PASS -THRU WINDOWS
C08710 FINISH HARDWARE
C08800 GLAZING

A-909
C09111 NON-LOAD BEARING STEEL FRAMING
C09250 GYPSUM BOARD
C09310 CERAMIC & GLASS TILE
C09330 QUARRY TILE
C09510 ACOUSTICAL PANEL CEILINGS

A-910
C09655 VINYL BASE
C09770 REINFORCED WALL COVERINGS
C09910 PAINTING
C10155 PLASTIC LAMINATE TOILET COMPARTMENTS
C10240 TREILLAGE (AS REQD ON ARCH DWGS)
C10265 CORNER GUARDS

A-911
C10420 IDENTIFYING SIGNAGE
C10523 PORTABLE FIRE EXTINGUISHERS
C10535 CANOPIES
C10810 TOILET ACCESSORIES
C12390 MILLWORK, CABINETRY AND COUNTERTOPS
C12500 WINDOW TREATMENT
C15000 MECHANICAL (SEE MECHANICAL DRAWINGS)
C15100 PLUMBING (SEE MECHANICAL DRAWINGS)
C16100 ELECTRICAL (SEE ELECTRICAL DRAWINGS)

END OF INDEX

DIVISION 1 - GENERAL REQUIREMENTS

SECTION - C01010: WORK COVERED BY CONTRACT DOCUMENTS

PART I - GENERAL

1.1 INTENT OF DRAWINGS AND SPECIFICATIONS

A. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Building Specifications. Anything mentioned in the Building Specification, supplemental reports, soil reports, environment reports, and not shown on the Drawings, or shown on the Drawings and not mentioned in the Building Specifications, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the Building Specifications, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.

1.2 CONTRACTOR RESPONSIBILITY FOR WORK REQUIRED

A. The organization of the Building Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Building Specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01010

SECTION - C01020: OWNER FURNISHED ITEMS

PART I - GENERAL

1.1 OWNER'S RIGHT TO INSTALL ITEMS AND/OR EQUIPMENT PURCHASED UNDER SEPARATE CONTRACTS

A. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way inhibit completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof.

PART II - PRODUCTS

2.1 CATEGORIES OF ITEMS

A. By Owner: Items shown or noted as "B.O." or "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor/subcontractor for installation by Contractor/subcontractor as part of the construction contract. SEE RESPONSIBILITY SCHEDULE.

Contractor/subcontractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:

B. Not In Contract (NIC): Items shown or noted "(NIC)" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract. SEE RESPONSIBILITY SCHEDULE.

PART III - EXECUTION

3.1 RECEIPT OF ITEMS

A. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive, unload, and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:

1. Make notation of any and all discrepancies on the delivery ticket(s).
2. Call delivery carrier and advise him of the problem.
3. Call the Owner's Purchasing Contact and advise of any problems.

END OF SECTION C01020

SECTION - C01030: ALTERNATE AND SUBSTITUTION PROCEDURES

PART I - GENERAL

1.1 DESCRIPTION

A. Section includes Alternates and Substitution Submittal Process

1.2 ALTERNATE

A. Acceptance: Alternates will be exercised at option of Owner. The contractors are required to use the specified materials. Alternate proposals for specified materials will not be received or reviewed. Exception: If there is a supply issue, contact the Owner immediately.

B. Coordination: Coordinate related work and modify surrounding work as required to complete the Work, including changes under each Alternate, when acceptiance is designated in Owner-Contractor Agreement.

1.3 SUBSTITUTION

A. Acceptance: Substitution of material, article or method will be exercised at the option of the Owner. When material, article, or method is specified using name of proprietary product manufacturer, vendor or method only that item will be allowed unless a "substitution" clause is provided in that section.

1. Cost for redesigns due to substituted items are the responsibly of the Contractor.

B. Bidder represents the following in making their request for substitution(s).

1. Has personally investigated proposed product or method and determined it is equal in all respects that specified.
2. Will furnish same guarantee for substitution as for product or method specified.
3. Will coordinate installation of accepted substitution into Work, making design and construction changes to complete Work in all respects following Contract requirements without additional cost to the Construction.

C. Submittal: For substitutions that do not change design intent, submit three (3) copies of complete data set to permit complete analysis of proposed substitutions.

4. Identification including manufacturer name, address and web site
5. Manufacturer literature
6. Samples where appropriate
7. Data relating to impact on construction schedule by proposed substitution

1.4 ALTERNATE PROPOSALS

NONE

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01030

SECTION C01040 - COORDINATION

PART I GENERAL

1.1 GENERAL INFORMATION

A. The mechanical and electrical drawings are a part of the Contract Documents and shall be followed as closely as actual construction of the building and the work of the other trades will permit.

B. All equipment and materials shall be installed according to the manufacturer's instructions.

1.2 STANDARDS, LAWS AND ORDINANCES

A. This work shall be done in strict accordance with the local building codes, National Fire Protection Association, ASTM, U/L, Inc. and other nationally recognized testing or trade association standards.

1.3 PERMITS AND FEES

A. Obtain and pay all permits, deposits, fees and inspections necessary for each trade's work. The Contractor shall be reimbursed for all non-refundable costs.

B. Make arrangements for any required inspections by local or state authorities in a timely manner so as not to delay occupancy of the building.

1.4 ACCESS PANELS

A. Where control or shut-off valves, heating coils or other equipment which will be required to be operated serviced or adjusted is installed above a non-removable ceiling system or behind furred walls, Mechanical or Electrical Subcontractors shall furnish and deliver access panels as required to the General Contractor.

B. Access panels shall be large enough to make possible the servicing adjustment, operation, removal and/or replacement of concealed equipment, but shall be at least 24" x 24" in ceilings and 16" x 24" in walls.

C. Where required they shall be U/L, Inc. or FM (Factory Mutual) "B" labeled.

1.5 GENERAL REQUIREMENTS FOR PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver materials in manufacturer's original sealed containers.

1. Labels legible and intact identifying brand name and contents.
2. Open containers so as not to destroy labels.

B. Storage

1. Store materials inside vendor cover, stack flat or on edge as recommended by
2. Store materials in dry places, protect from leakage.
3. Do not overload floor system.

C. Handling

1. Do not drag any material across other stored material.
2. Handle with care to avoid damage.

D. Specific requirements as applicable will appear in later Sections.

1.6 TEST BORINGS

A. Test borings have been made at various locations within the construction area and the results of such borings are available for inspection at the office of the General Contractor. They are not part of the Contract Documents. Boring logs and reports are made available for information only, and the continuity of conditions represented therein are not guaranteed. All conclusions drawn by the Contractor as to existing conditions shall be the result of his own investigations and studies.

1.7 WEATHER CONDITIONS

A. In the event of temporary suspension of work, during inclement weather, the Contractor shall, and will cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the Architect, any work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors so to protect his work, such materials shall be removed and replaced at the expense of the Contractor.

1.8 TIME FOR COMPLETION

A. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the date of beginning and the time for completion as specified in the contract of the work to be done hereunder are ESSENTIAL CONDITIONS of this Contract, and it is further mutually understood and agreed that the work embraced in this contract shall be commenced on a date to be specified in the Notice to Proceed.

B. The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such a rate of progress as will insure full completion thereof within the time specified in the contract. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

1.9 GRADES, LINES, LEVELS

A. The general contractor shall employ an experienced, reliable approved surveyor to complete the primary layout work and may utilize a competent field engineer to establish secondary lines and levels. The Contractor may rely upon site survey plot provided by the Owner to be true and accurate.

B. Locate foundations on property as drawings show. Establish and maintain, street lines, curb lines, levels, building lines, column center lines, base lines and bench marks.

C. Lay out partition lines and buck centers on form work and on rough floors for information of all trades.

D. Lines and levels shall be established from existing monuments located near site. Elevations given on drawing shall be established by levels from nearest bench mark. Datum reference is noted on drawings.

E. Should doubt arise as to accuracy of lines, levels or surveys established by surveyor, Architect reserves right to call in another surveyor, verify all previous work and establish additional lines, levels, and surveys as necessary to settle all points in question. Expense of such additional survey work shall be borne by Contractor if Contractor's surveyor was in error.

F. The mechanical trades shall be responsible for the layout of the ductwork and piping based on the reference lines and bench marks established by the Contractor.

1.10 SLEEVES AND HANGERS

A. Any contractor or Subcontractor required to furnish and install conduits, outlets, piping sleeves, boxes inserts or other materials, or equipment necessary to be built into work to be performed by the Contractor shall promptly furnish and set such sleeves or other materials as per requirements of construction program. They shall also furnish data to other trades regarding opening required in floor slabs, walls, metal roof decks, etc.

B. All trades shall cooperate fully in connection with performance of above work, as cutting in new work is neither contemplated nor will it be tolerated.

C. Necessary expenditures incurred for approved boxing out, filling or subsequent drilling or coring shall be borne without extra cost to Owner.

1.11 CUTTING AND PATCHING

A. Except as otherwise specified, each subcontractor shall execute all cutting and patching in his work that may be required by others so that the engagements between the various material will be neat and proper. Cutting of any structural portions of the building shall not be permitted except as approved by the Owner. Each subcontractor shall locate and provide sleeves, suitable to the general contractor, for all holes, chases, openings, or block-outs required for the installation of their work. All such openings shall be straight, true, and of proper size. No excessive cutting will be permitted, nor shall openings be located to alter the installation of any structural member from that indicated on drawings. After the work has been installed, all openings shall be carefully patched and fitted around as directed and to the satisfaction of the Owner.

1.12 BARRICADES AND PROTECTION

A. The Contractor shall provide and maintain at all times during execution of work as required by duly constituted authorities, or as otherwise may be appropriate, to insure safety of workmen, passersby, employees of Owner, and all other persons.

1. Temporary barricades and enclosures, adequately lighted.
2. Barricades and closures for openings as nature of work demands.
3. Barricades, partitions and enclosures, where exposed to public view, shall be of neat design, substantially construction and neatly painted.

B. The Contractor shall have sole responsibility for the erection and proper maintenance at all times, as required by laws and regulations and otherwise by the conditions and progress for the work, of proper safeguards for the protection of property, workmen and the public and shall post signs warning against the dangers created by openings, stairways, falling materials, open excavations and all other hazardous conditions; and the Contractor shall designate a responsible member of his organization on the job whose duties shall include prevention of accidents.

C. Adequate precautions shall be taken by the contractor against fire throughout all the Contractor's and Subcontractors' operations. Flammable materials shall be kept at an absolute minimum, and, if any, shall be properly handled and stored. Except as otherwise expressly provided herein, the Contractor shall not permit fires to be built.

1.13 ACCIDENTS

A. The Contractor shall provide and make available medical supplies and equipment necessary to supply on site first aid to all personal injured in connection with the work.

B. The Contractor shall report any and all accidents in writing to Insurance Company, Owner and Architect within 24 hours of occurrence. The report shall contain the following information and it shall be the responsibility of the Contractor to have an accident report filled out in triplicate and submitted as required above with (1) Name of Person or Persons and Home Address, (2) Location of Occurrence, (3) Time of Day and Date, (4) Description of Occurrence, (5) Statements of Witnesses, and (6) Signature of Contractor's Superintendent.

C. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported by the contractor to the Architect and to the Owner immediately by telephone or messenger. If any claim is made by anyone against the Contractor or any Subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Owner, giving full details of the claim.

1.14 TEMPORARY STAIRS, LADDERS, RAMPS

A. This General Contractor shall furnish and maintain temporary stairs, ladders, ramps, scaffolds, runways, chutes, and like, required for proper execution of work by trades. Such apparatus equipment, and construction shall be as per State or Local laws applicable thereto.

1.15 TEMPORARY TOILETS

A. The contractor shall furnish, install and maintain the necessary temporary toilet facilities for all workmen; said toilets shall be placed at the time work starts and maintained until such time as the permanent toilet facilities are put in operating condition. Unless directed otherwise, the temporary toilets shall be of the chemical type and shall be placed and maintained as required. Necessary temporary enclosure shall be provided to accommodate the toilets. The toilets shall be maintained in a sanitary condition and removed together with their contents when directed. These units shall be serviced as required, to include emptying tanks, recharging with a germicidal and deodorizing solution and scrubbing entire interior with a germicidal solution.

1.16 TEMPORARY WATER SERVICE

A. The Contractor shall provide temporary water service. Provide all extensions thereof required for work and remove such extensions at completion of work, restoring water piping to condition existing at start of work. Use care to prevent water waste. Maintain valves, connections, hoses, in good condition.

1.17 TEMPORARY FIELD OFFICE

A. The Contractor shall provide and maintain a temporary office or trailer on the job site. This office shall be equipped with plan table, plan files, and enclosed filing space for shop drawings, meeting notes, and other pertinent information of importance to the job. Office shall be located on site where directed and removed when work is complete. Provide electric light, and heat connected to utility systems. Move temporary office inside new building when space is adequately enclosed.

1.18 TEMPORARY ELECTRIC SERVICE

A. The Contractor shall provide temporary connection to the local lighting and power supply in accordance with the Utility Company's requirements and shall extend lines to central distribution points not more than 100 feet apart on each floor within the building as directed by the Architect. All appurtenances including poles, boxes and anchorage shall be installed by the Contractor.

B. Service furnished by the General Contractor to each distribution plant shall be 110 volts, single phase, 60 cycle for light and 208 volts, 3 phase for power, of capacity for the anticipated connected loads, fused in a convenient box.

C. The General Contractor shall also provide general illumination in all storage areas, corridors, toilets and stairwells.

D. Each Subcontractor requiring additional wiring, varied or increased service wiring for his construction needs etc., shall make his own arrangements for same with the Contractor and shall be required to assume the cost of same.

1.19 TEMPORARY HEATING

A. The Contractor shall provide at his own expense, temporary enclosure, fuel and equipment necessary for heating materials incorporated in his work, for protection of his work before and after building is enclosed, and before permanent heating system can be operated to heat the respective space.

B. After building is enclosed and permanent heating plant is in operation, or when directed, the Owner shall provide, sufficient heating capacity to maintain all enclosed areas at a minimum temperature required to perform the various finishing operations but in no case to be allowed to go below a temperature which would be harmful to previously installed work. Temporary heat will be required when temperature at night falls below 40 degrees F.

C. Use permanent equipment when warranted, before the building is accepted by the Owner. Immediately prior to final acceptance of building, service, repair and rehabilitate all permanent equipment and facilities used for temporary work so that they shall be in perfect condition. The cost of fuel consumed by the permanent plant for temporary heating shall be paid by the Contractor.

1.2 GUARANTEE

A. Neither the final certificate of payment nor any provision in the Contract Documents no partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any warranties or responsibility for faulty materials or workmanship, and no error or oversight in superintendence, inspection, or issuance of any certificate, or delay in discovery or rejection of defective or improper work or materials by the Owner shall relieve the Contractor of any of its obligations under this Agreement.

B. In addition to specific guarantees required by the Contract for work to be performed, Contractor shall guarantee all work to be performed and all materials to be furnished under contract against defects in materials or workmanship for a period of 1 year from date of substantial completion unless longer guarantees are specified.

C. In case of work performed by Subcontractors and where guarantees are required, the Contractor shall secure warranties from said Subcontractors and shall deliver copies of same to the Owner upon completion of work. Delivery of said guarantees shall not relieve contractor from any obligation assumed under any other provision of the Contract.

D. Should any defects develop in aforesaid work, within specified periods, due to faults in materials and/or workmanship, the Contractor shall make repairs and perform all necessary work to correct defective work, as approved by the Owner. The Contractor shall commence such repairs, corrective work within 5 days after written notice to Contractor by Owner, and the Contractor shall bear all costs in connection herewith. The Owner shall give notice of observed defects with reasonable promptness.

E. In case Contractor fails to do work so ordered, Owner may have work done by others, and the Owner may charge cost thereof against monies retained pursuant to the contract. If said retained monies are insufficient to pay such costs, or if no money is available, Contractor and his sureties shall pay Owner the entire balance of the cost of such work.

1.21 CLEANING

A. The Contractor shall keep premises free from accumulations and waste materials or rubbish. At completion of work, the Contractor shall remove all rubbish and waste materials from and about building and all tools, construction equipment, scaffolding and surplus materials and leave work "broom clean". In case of dispute, Owner may remove rubbish and charge and allocate such cost to several Contractors as Architect shall determine to be just.

B. The Contractor shall repair any damage to streets, pavement, sidewalks, and adjacent premises incurred by reason of his performance to the contract, and restore to operating condition any sewers, drains, and other facilities used by Contractor.

C. Each Mechanical and Electrical trade shall be responsible for keeping their own stock of materials and equipment stored on the premises in a neat and orderly manner. Packing materials, crates, waste and construction debris shall be maintained in compact piles.

D. The words "clean up" are defined as a complete cleaning of the exterior and interior include, but not limited to the following; window and storefront glass and frames, damp cloth wiping of dust from cabinets, countertops, stairways, etc., vacuuming of carpeted areas, and sweeping of all other floor surfaces.

1.22 WORK RESTRICTIONS

A. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet (8m) from entrances, operable windows, or outdoor air intakes.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01040

SECTION - C01050: FIELD ENGINEERING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Survey and Field Engineering
B. Submittals and Quality Control
C. Project Record Documents

1.2 QUALITY ASSURANCE

A. Surveyor: Employ experienced Civil Engineer or registered Land Surveyor to establish layout, lines, levels and grades, and check Contractor's placement of batter boards, grades stakes, and other controls, and to verify same from time to time during progress of construction of Work. Engineer or Surveyor shall be registered in the state of this project.

B. Measurements: Before ordering materials or doing any work, verify measurements at site and check same against Drawings. No extra charge will be allowed on account of differences between actual dimensions and measurements shown on Drawings. Submit any differences found to Owner for resolution before proceeding with Work.

1.3 EXECUTION

A. Inspection: Verify locations of survey control points prior to starting work. Promptly notify Owner of any discrepancies discovered.

B. Survey Control Points: Protect survey control points prior to starting site work; preserve permanent reference points during construction. Make no changes without prior written notice to Owner. Promptly report to Owner the loss or destruction of any reference point or relocation required because of changes in grades or other reasons. Replace dislocated control points based on original survey control.

C. Survey Requirements:

1. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on Project Record Documents.
2. Establish lines and levels, locate and lay out by instrumentation and similar appropriate means:

a. Site improvements, including pavements; stakes for grading, fill and topsoil placement; and utility locations, slopes, and invert elevations.
b. Grid or axis for structures.
c. Building foundation, column locations, and ground floor elevations.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01050

SECTION - C01300: SUBMITTALS

PART I - GENERAL

1.1 REQUIREMENTS INCLUDED

A. Procedures
B. Schedule of Values - Part of Contract Proposal
D. Shop Drawings
C. Product Data

1.2 Procedures

A. Refer to the Contractor's Contract for required procedures.

1.3 CONSTRUCTION PROGRESS SCHEDULES

A. Construction Schedules: Refer to the contract regarding required schedules.
B. Sequence of Construction: Show complete sequence of construction by activity, identifying work of separate stages and other logically grouped activities.
C. Percentage of Completion: Show projected percentage of completion for each item of work as of time of each Application for Payment.
D. Progress Reports: The Contractor shall, on Friday of each week, complete and make distribution of a synopsis of job progress by trade category with distribution as directed by Owner. The form shall be completed by the Contractor's job superintendent, complete with a "Remarks" space for written communication of minor job problems and requests which can be made under field conditions.

1.4 SHOP DRAWINGS

A. With few exceptions, shop drawings will not be required by the Architect or Owner. The General Contractor may require them at their discretion. The Owner, however, will require information, data, specifications, or procedures for all material and specifications of procedures for all materials and equipment to be submitted by the G.C. at closeout.

1.5 PRODUCT INFORMATION

A. General: Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Project Manual Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.

B. Modifications: Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.

C. Copies Required: Submit number Contractor requires, plus two copies which will be retained by Owner.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01300

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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

DRAWN BY Author DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-901.1

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:50:40 PM
02859-A-901.1-SPECIFICATIONS

SECTION L01352: LEED REQUIREMENTS (IF APPLICABLE)

LEED REQUIREMENTS

PART I - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed for Project to obtain LEED Certifed certification based on LEED 2009 for Retail: New Construction and Major Renovations.

1. The owner shall supply the General Contractor a LEED Scorecard, which will detail the specific credits to be pursued.

B. Related Sections:

1. Divisions 1 through 16 Sections for LEED requirements specific to the work of each of these Sections. Requirements may or may not include reference to LEED.

1.3 DEFINITIONS

A. Chain-of-Custody Certificates: Certificates signed by manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship." Certificates shall include evidence that manufacturer is certified for chain of custody by an FSC-FSC-accredited certification body.

B. LEED: Leadership in Energy & Environmental Design.

C. Rapidly Renewable Materials: Materials made from plants that are typically harvested within a 10-year or shorter cycle. Rapidly renewable materials include products made from bamboo, cotton, flax, jute, straw, sunflower seed hulls, vegetable oils, or wool.

D. Regional Materials: Materials that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles (800 km) of Project site. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

E. Recycled Content: The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

1. "Post-consumer" material is defined as waste material generated by households or by commercial, industrial, and institutional facilities in their role as end users of the product, which can no longer be used for its intended purpose.

2. "Pre-consumer" material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it.

a. Note that LEED uses the term "pre-consumer" rather than "post-industrial". Also note that when manufacturers and trade associations use the term "post-industrial" it often includes spills, scraps, and damaged and surplus materials that are fed back into the same manufacturing process and that these materials are not considered recycled content by the LEED rating systems.

1.4 SUBMITTALS

A. General: Submit additional LEED submittals required by other Specification Sections..

B. LEED submittals are in addition to other submittals. If submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.

C. LEED Action Plans: Provide preliminary submittals within seven days of date established for the Notice to Proceed indicating how the following requirements will be met:

1. Credit MR 2: Using the LEED Volume construction Waste Management Template

2. Credit EQ 3.1: Construction indoor-air-quality management plan. Using the LEED Volume Indoor Air Quality Management Plan template.

F. LEED Documentation Submittals:

1. Credit MR 2: Comply with Division 1 Section "Construction Waste Management" and CFA Construction Waste Management Plan.

2 Credit MR 4: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content using CFA Recycled Content & Regional Material spreadsheet.

3. Credit MR 5: Product data for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.

4. Credit MR 7: Product data and chain-of-custody certificates for products containing certified wood. Include statement indicating cost for each certified wood product. (IF APPLICABLE)

5. Credit EQ 3.1:

a. Construction indoor-air-quality management plan.

b. Product data for temporary filtration media.

c. Product data for filtration media used during occupancy.

d. Construction Documentation: Six photographs at three different times during the construction period, along with a brief description of the SMACNA approach employed, documenting implementation of the indoor-air-quality management measures, such as protection of ducts and on-site stored or installed absorptive materials.

6. Credit EQ 3.2:

a. Using the LEED Volume Indoor Air Quality Management Plan template describing the building air flush-out procedures including the dates when flush-out was begun and completed and statement that filtration media was replaced after flush-out.

b. Product data for filtration media used during flush-out and during occupancy.

7. Credit EQ 4: Product data for adhesives and sealants used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.

8. Credit EQ 4: Product data for paints and coatings used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D. (ONLY IF NON-PROTOTYPICAL PAINTS AND COATINGS ARE USED)

9. Credit EQ 4: Product data for products containing composite wood or agrifiber products or wood glues indicating that they do not contain urea-formaldehyde resin. (IF APPLICABLE)

PART II - PRODUCTS

2.1 RECYCLED CONTENT OF MATERIALS

A. Credit MR 4: Provide building materials with recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum of 10 percent of cost of materials used for Project.

1. Cost of post-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.

2. Cost of pre-consumer recycled content of an item shall be determined by dividing weight of pre-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.

3. Do not include plumbing, mechanical and electrical components, and specialty items such as elevators and equipment in the calculation.

2.2 REGIONAL MATERIALS

A. Credit MR 5: A minimum 10 percent of building materials (by cost) for regional materials.

2.3 CERTIFIED WOOD (IF APPLICABLE)

A. Credit MR 7: Provide a minimum of 50 percent (by cost) of wood-based materials that are produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."

1. Wood-based materials include, but are not limited to, the following materials when made from wood, engineered wood products, or wood-based panel products:

a. Rough carpentry.
b. Miscellaneous carpentry.
c. Heavy timber construction.
d. Wood decking.
e. Metal-plate-connected wood trusses.
f. Structural glued-laminated timber.
g. Finish carpentry.
h. Architectural woodwork.
i. Wood paneling.
j. Wood veneer wall covering.
k. Wood flooring.
l. Wood lockers.
m Wood cabinets.

2.4 LOW-EMITTING MATERIALS

A. Credit EQ 4: For field applications that are inside the weatherproofing system, use adhesives and sealants that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:

1. Categories below are taken from LEED rating systems and the standards referenced by them; if clarification is required, see those documents or the reference guides.

2. Wood Glues: 30 g/L.
3. Metal to Metal Adhesives: 30 g/L.
4. Adhesives for Porous Materials (Except Wood): 50 g/L.
5. Subfloor Adhesives: 50 g/L.
6. Plastic Foam Adhesives: 50 g/L.
7. Carpet Adhesives: 50 g/L.
8. Carpet Pad Adhesives: 50 g/L.
9. VCT and Asphalt Tile Adhesives: 50 g/L.
10. Cove Base Adhesives: 50 g/L.
11. Gypsum Board and Panel Adhesives: 50 g/L.
12. Rubber Floor Adhesives: 60 g/L.
13. Ceramic Tile Adhesives: 65 g/L.
14. Multipurpose Construction Adhesives: 70 g/L.
15. Fiberglass Adhesives: 80 g/L.
16. Contact Adhesive: 80 g/L.
17. Structural Glazing Adhesives: 100 g/L.
18. Wood Flooring Adhesive: 100 g/L.
19. Structural Wood Member Adhesive: 140 g/L.
20. Special Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, Teflon, ultra-high molecular weight polyethylene, rubber or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
21. Top and Trim Adhesive: 250 g/L.
22. Plastic Cement Welding Compounds: 250 g/L.
23. ABS Welding Compounds: 325 g/L.
24. CPVC Welding Compounds: 490 g/L.
25. PVC Welding Compounds: 510 g/L.
26. Adhesive Primer for Plastic: 550 g/L.

B. Credit EQ 4: For field applications that are inside the weatherproofing system, use paints and coatings that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:

1. Flat Paints, Coatings, and Primers: VOC not more than 50 g/L.
2. Nonflat Paints, Coatings, and Primers: VOC not more than 150 g/L.
3. Anticorrosive and Antirust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
4. Clear Wood Finishes, Varnishes: VOC not more than 350 g/L.
5. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.
6. Floor Coatings: VOC not more than 100 g/L.
7. Shellacs, Clear: VOC not more than 730 g/L.
8. Shellacs, Pigmented: VOC not more than 550 g/L.
9. Stains: VOC not more than 250 g/L.

C. Credit EQ 4.4: Do not use composite wood or agrifiber products or adhesives that contain urea-formaldehyde resin. (IF APPLICABLE)

2.5 CAST-IN-PLACE CONCRETE

A. Cementitious Materials: Use fly ash as needed to reduce the total amount of Portland Cement, which would be used, by not less than 25 percent.

B. Steel Reinforcement: Recycled content of steel products, provide products with an average recycled content of steel products so post-consumer recycled content plus one-half of pre-consumer recycled content is not less than 25 percent.

PART III- EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT

A. Credit MR 2: Comply with Division 1 Section "Construction Waste Management."

3.2 CONSTRUCTION INDOOR-AIR-QUALITY MANAGEMENT

A. Credit EQ 3.1: Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction." Per the LEED Volume Indoor Air Quality Management Plan template.

1. If Owner authorizes use of permanent heating, cooling, and ventilating systems during construction period as specified in Division 1 Section "Temporary Facilities and Controls," install filter media having a MERV 8 according to ASHRAE 52.2 at each return-air inlet for the air-handling system used during construction.

2. Replace all air filters immediately prior to occupancy.

B. Credit EQ 3.2:

1. After construction ends, prior to occupancy and with all interior finishes installed, perform a building flush-out by supplying a total volume of 14000 cu. ft. (4 300 000 L) of outdoor air per sq. ft. (sq. m) of floor area while maintaining an internal temperature of at least 60 deg F (16 deg C) and a relative humidity no higher than 60 percent.

2. If occupancy is desired prior to flush-out completion, the space may be occupied following delivery of a minimum of 3500 cu. ft. (1 070 000 L) of outdoor air per sq. ft. (sq. m) of floor area to the space. Once a space is occupied, it shall be ventilated at a minimum rate of 0.30 cfm per sq. ft. (1.52 L/s per sq. m) of outside air or the design minimum outside air rate determined in EQ Prerequisite 1, whichever is greater. During each day of the flush-out period, ventilation shall begin a minimum of three hours prior to occupancy and continue during occupancy. These conditions shall be maintained until a total of 14000 cu. ft./sq. ft. (4 300 000 L/sq. m) of outside air has been delivered to the space.

3.3 GENERAL CONTRACTOR COMMISSIONING REQUIREMENTS

A. General Contractor shall complete pre-functional checklists provided in the commissioning plan. Checklists shall be returned at least five days prior to scheduling functional performance testing.

B. General 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 testing and balancing is complete. The functional performance test procedures can be found in the commissioning plan.

C. If the total time required to correct problems during testing is greater than fourty-five (45) minutes (unless extenuating circumstances exist), the test shall be considered failed and must be repeated in its entirety.

D. Re-Testing: During the course of the retest, if at any point 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 General 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 General Contractor

END OF SECTION L01352

SECTION -L01524: LEED CONSTRUCTION WASTE MANAGEMENT

PART I - GENERAL

1.1 Leadership in Energy & Environmental Design (LEED) Certified Certification is the goal for this project. The contractor will be fully responsible for adherence to all procedures, activities and documentation related to obtaining, at a minimum, Material & Resources Credit 2, Divert 50% from Disposal and obtaining, if possible, Divert 75% from Disposal. (IF APPLICABLE)

1.2 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.3 SUMMARY

A. This Section includes administrative and procedural requirements for the following:

Adjust list below to suit Project.

1. Salvaging nonhazardous construction waste.
2. Recycling nonhazardous construction waste.
3. Disposing of nonhazardous construction waste.

1.4 DEFINITIONS

A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

1.5 PERFORMANCE REQUIREMENTS

A. The Owner has established that this Project shall generate the least amount of waste possible and that processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors shall be employed.

B. Of the waste that is generated, as many of the waste materials as economically feasible shall be reused, salvaged, or recycled. Waste disposal in landfills or incinerators shall be minimized, thereby reducing disposal costs.

C. Develop waste management plan that results in end-of-Project rates for salvage/recycling of 50 percent by weight of total waste generated by the Work.

D. Salvage/Recycle Requirements: Owner's goal is to salvage and recycle as much nonhazardous construction waste as possible including the following materials:

1. Demolition Waste:
a. Asphaltic concrete paving.
b. Concrete.
2. Construction Waste:
a. Site-clearing waste.
b. Masonry and CMU.
c. Lumber.
d. Wood sheet materials.
e. Wood trim.
f. Metals.
g. Roofing.
h. Insulation.
i. Carpet and pad.
j. Gypsum board.
k. Piping.
l. Electrical conduit.
m. Packaging: Regardless of salvage/recycle goal indicated above, salvage or recycle 100 percent of the following uncontaminated packaging materials:
1) Paper.
2) Cardboard.
3) Boxes.
4) Plastic sheet and film.
5) Polystyrene packaging.
6) Wood crates.
7) Plastic pails.

1.6 SUBMITTALS

A. Construction Waste Management Plan (CWMP): It is the intent of this specification to maximize the diversion of demolition and construction waste from landfill disposal. Accordingly, not more than 7 days after receipt of Notice to Proceed and prior to the generation of any waste, prepare and submit a Draft Construction Waste Management Plan in accordance Section 01524.

B. Submit an electronic copies with calculations on end-of-project recycling rates, salvage rates, and landfill rates itemized by waste material, demonstrating that a minimum of 50% of construction wastes were recycled or salvaged and diverted from landfill. Include documentation of recovery rate (if co-mingled), waste hauling certificates or receipts, and a brief narrative explaining how and to where each waste type has been diverted. Copies shall be uploaded to the Owner's Data Management software account located on "Buzzsaw".

C. Waste Reduction Calculations: Before request for Substantial Completion, submit four copies of calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work. Using the LEED Volume CWM Calculator.

D. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.

E. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.

F. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

G. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.7 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Waste Management Meetings: Conduct an initial conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Contractor shall include discussions on construction waste management requirements in the regular job meetings conducted during the course of the Project; at these meetings, review methods and procedures related to waste management including, but not limited to, the following:

1. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
2. Review requirements for documenting quantities of each type of waste and its disposition.
3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
5. Review waste management requirements for each subcontractor or trade.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement waste management plan as approved by Architect and Owner. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

1. Comply with Division 1 Section "Temporary Facilities and Controls" for operation, termination, and removal requirements.

B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.

1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site.

C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
2. Recycling and waste bin areas are to be kept neat, and clean, and clearly marked in order to avoid contamination of materials.
3. Comply with Division 1 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

E. Hazardous Wastes: Hazardous wastes shall be separated, stored, and disposed of according to local regulations and should not be included in Construction Waste Management Plan's calculations of waste.

3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

A. General: Recycle paper and beverage containers used by on-site workers.

B. Recycling Receivers and Processors: The General Contractor shall develop a list for available recycling receivers and processors to include.

C. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.

D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical.

1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.

a. Inspect containers and bins for contamination and remove contaminated materials if found.

2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste off Owner's property and transport to recycling receiver or processor.

3.3 RECYCLING DEMOLITION WASTE

A. Asphaltic Concrete Paving: Break up and transport paving to asphalt-recycling facility or recycle on-site into new paving.

B. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.

1. Pulverize concrete to maximum 4-inch (100-mm) size.
2. Crush concrete and screen to comply with requirements in Division 2 Section "Earthwork" for use as satisfactory soil for fill or subbase.

3.4 RECYCLING CONSTRUCTION WASTE

A. Packaging:

1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

B. Site-Clearing Wastes: Chip brush, branches, and trees on-site.

1. Comply with requirements in Division 2 Section "Exterior Plants" for use of chipped organic waste as organic mulch.

C. Wood Materials:

1. Clean Cut-Offs of Lumber: Grind or chip into material appropriate for mulch or erosion control.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
3. Lumber treated with heavy-metal preservatives: Do not grind, chip, or incinerate; must be reused or landfilled.

D. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location.

1. Moisture-damaged gypsum board shall be disposed of in accordance with the local authority having jurisdiction.
2. Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.

a. Comply with requirements in Division 2 Section "Exterior Plants." for use of clean ground gypsum board as inorganic soil amendment.

3.5 DISPOSAL OF WASTE

Add other specific disposal, cleanup, or removal requirements to suit Project.

A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Appropriate use of site paving as granulated fill is considered reuse, not waste.

B. Burning: Do not burn waste materials.

C. Disposal: Transport waste materials off Owner's property and legally dispose of them.

END OF SECTION L01524

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
07/19/2022

Chick-fil-A
5200 Buffington Road
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30349-2998

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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

DRAWN BY Author
DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-901.2

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02859-A-901.2-SPECIFICATIONS

SECTION - C01410: TESTING LABORATORY SERVICES

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Owner supplied third party inspections, coordinated by the General Contractor.
- B. Review and become familiar with "Third Party Inspections" as part of the FSU Super Package under the General Contractor's contract..

1.2 RELATED SECTIONS
- A. General Conditions: Inspections, testing, and approvals required by public authorities
- B. Testing Adjusting and Balancing of Systems
- C. Contract Closeout: Record Documents

1.3 CONTRACTOR RESPONSIBILITIES
- A. Cooperate with laboratory personnel, and provide access to Work.
- B. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
- C. Notify Owner and laboratory 24-hours prior to expected time for operations requiring inspection and testing services.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01410

SECTION - C01510: TEMPORARY UTILITIES

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Temporary Electricity and Lighting
- B. Temporary Heating
- C. Temporary Water
- D. Temporary Sanitary Facilities
- E. Temporary Fire Protection
- F. Payment

1.2 TEMPORARY ELECTRICITY AND LIGHTING
- A. Provide wiring, fuses, disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act." Observations by the Owner, his agents, or any recognized agency indicating failure to comply with code requirements shall be cause for immediate suspension of job site operations by the Contractor until the system is in full compliance. No extension to the Contract Time shall be allowed for such suspension of job site operations.

1.3 TEMPORARY HEATING
- A. Requirement: Provide, pay for and maintain, all temporary heating facilities required during the progress of the Work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
- B. Use of Permanent Heating System: Permanent heating system may be used for this purpose after completion, provided Contractor obtains written permission from Owner, and agrees to pay all charges for fuel, attendance, maintenance, repair and replacement, if necessary, to the equivalent of new conditions, including replacement of filters and cleaning of grilles and diffusers.

1.4 TEMPORARY WATER
- A. Provide temporary storage tanks, piping, valves, fittings, hose and hose connections as required for use of water during construction and testing.

1.5 TEMPORARY SANITARY FACILITIES
- A. Furnish, install and maintain ample sanitary facilities for use of workmen of all trades engaged in work under the contract. Temporary toilets shall be constructed at time work is commenced and shall be subject to applicable City Ordinances, Health Department requirements and Rules and Regulations of governing authorities by Code or otherwise.

1.6 TEMPORARY FIRE PROTECTION
- A. Observe and enforce compliance by all trades engaged in work under the contract with requirements of City, County, State, Federal and Insurance Underwriter's regulations to minimize fire hazards incidental to the work. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

1.7 ARRANGEMENT AND PAYMENT
- A. The Contractor shall make all necessary arrangements and shall pay for water, electric power, gas, and sewage service during the construction of the building as may be required for use of his own forces and those of his subcontractors, and as required by them until acceptance of the work by the Owner.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01510

SECTION - C01520: SECURITY

PART I - GENERAL

1.1 WATCHMAN SERVICE
- A. Contractor may employ and pay for watchmen, or a watchmen's service, as he deems necessary to protect his own interests, and he shall be responsible for and pay for losses or damages to the Owner's materials or other property as a result of theft, mysterious disappearances or intrusions by strangers.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01520

SECTION - C01530: PROJECT IDENTIFICATION AND SIGNS

PART I - GENERAL

1.1 PROJECT SIGN FRAME
- A. Within seven days of date of notice to proceed, furnish and erect one (1) project identification sign, in a location directed by the Owner: Sign shall consist of 4x4 inch posts supporting a 4'-0" high by 8'-0" wide sheet of 3/4 inch thick exterior A/C plywood. Locate post 1'-0" from ends of plywood; 6'-0" centers. Bottom of plywood shall be at 4'-0" above grade.
- B. Framework shall receive a fabric sign to be furnished by Owner and installed by General Contractor. Installation of sign will be by wrap and staple method; long staples, closely spaced on back side.

1.2 CONTRACTOR SIGNS AND ADVERTISING
- A. Only the General Contractor may have a sign, at Contractor's expense, if so desired. No other free-standing signs or advertising of any kind other than "warning" signs and notices required by law, will be permitted on the site or about the premises.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01530

SECTION C01570 - EROSION AND SEDIMENTATION CONTROL

PART I - GENERAL

1.1 NOTICE OF INTENT
- A. Contractor and Owner shall jointly submit an EPA Notice of Intent (NOI) prior to construction.

PART II - PRODUCTS

2.1 PRODUCTS
- A. Grass: Materials for seeding and sodding shall conform to Section 02905.
- B. Fertilizer: Use commercial grade fertilizers to insure germination and growth. Analysis by weight shall be 16-4-8 or 15-5-10 for Nitrogen, Phosphoric Acid and Potash.
- C. Silt Fence: Lundin "Silt Buster", Mirafi "Envirofence" or approved equal.
- D. Straw Bales: Standard rectangular hay bales bound by baling wire
- E. Sediment Traps: Standard manufacture designed to fit the intended inlet.

PART III - EXECUTION

3.1 GENERAL
- A. Contractor shall keep disturbed areas to a minimum required to adequately perform the work. At all times the Contractor shall maintain the site in such a manner that minimizes erosion of the site. The execution of work under this section shall be in conformance with the NPDES rulings and the site Storm Water Pollution Prevention Plan.

3.2 SEEDING
- A. Disturbed portions of the site and stockpile areas shall be seeded within 14 days if the phasing of the construction operations are anticipated to leave those portions of the areas unworked for 21 days or more.
- B. Seeding operations shall be performed in accordance to the state's Standard Specifications, using the materials specified and the season in which the seeding operations are to occur.
- C. Seeded areas shall be maintained until the project is accepted by the Owner. Maintenance shall include but not be limited to watering, fertilizing, reseeding, mowing and erosion repair as may be required. Grass shall be cut when the average height of the grass reaches 6 inches. Clippings may be mulched back into the seeded areas.

3.3 TEMPORARY AND PERMANENT SWALES
- A. Description
  1. Temporary and permanent drainage swales shall be provided as required to carry drainage away from the work area to an approved outfall point.
  2. Unless otherwise shown on the drawings, swales shall be earthen "V" shaped channels graded to a sufficient depth and slope to carry the anticipated runoff, but at least 2 feet deep with a slope of 0.1 percent.
  3. Swales not designated to remain in place at the completion of the contract shall be cleaned of any muck, debris and other unsuitable material and filled with approved fill before final grading operations begin.
  4. Swales shall have erosion control barriers as required.
  5. All permanent swales shall be sodded to a minimum width of 10 feet on either side of the centerline of the swale.
- B. Maintenance
  1. During the course of construction all temporary swales constructed for this contract shall be maintained so as to allow proper drainage from the construction area. Before Contractor leaves the site at the end of construction, all temporary swales to remain shall be placed in good working condition.
  2. Contractor shall work with other contractors at the site in maintaining existing swales and ditches.
  3. Where necessary for access to the work areas, adequately sized culverts shall be installed and maintained to provide the access without disturbing the site drainage.
  4. Care shall be taken not to rut and damage sodded swales. Damaged swales shall be repaired immediately.
  5. Keep sodded swales mowed.

3.4 DRAINAGE DITCHES
- A. Drainage ditches shall be hydromulched immediately upon final grading.
- B. Erosion of the banks of the drainage ditches shall be repaired immediately and re-stabilized.
- C. Sediment barriers shall be placed at intervals along the ditch as shown on the plans and as necessary to help trap sediment on the site. Sediment and other debris trapped by the barriers shall be removed on a daily basis as needed.
- D. Ditch side slopes shall not be steeper than 3 feet horizontal to 1 foot vertical.
- E. Maintenance of the ditches during construction shall include but not be limited to mowing, re-grading, sediment removal, re-hydromulching, bank repair and debris removal.
- F. Sediment removed from the ditches may be respread on the site as directed by the Owner.

3.5 FILL AND CUT SLOPES
- A. Fill slopes in all cases shall be no steeper than 3:1 unless specifically stated on the plans or approved by the Owner's soils engineer.
- B. When cut slopes exceed 2:1 for depths over 3 feet, proper bracing and shoring per OSHA requirements shall be used and maintained.
- C. For permanent slopes, cut or fill, between 2:1 and 10:1, erosion protection shall be provided with hydromulching, sodding, seeding, or other method as approved.

3.6 SEDIMENTATION BASINS
- A. Description
  1. Sedimentation ponds shall be provided where designated on the plans.
  2. All drainage from cleared areas shall be routed through the sedimentation basin.
  3. Contractor will be responsible for the operation and maintenance of the pond during construction.
- B. Maintenance
  1. Contractor shall be responsible for maintaining the pond and the outfall and sediment retarding structure in good working condition throughout the time the pond is to be in operation.
  2. When sediment and debris fill the pond to over 1/3 its designed capacity, the pond shall be cleaned out.

3.7 EROSION CONTROL BARRIERS
- A. Erosion control barriers shall be provided at intervals along swales and ditches as shown on the drawings and as necessary to meet the requirements of the Storm Water Pollution Prevention Plan.
- B. The barriers shall be silt fence or hay bales placed as shown on the drawings and details.
- C. Barriers shall be maintained in good working condition and replaced when damaged.

END OF SECTION C01570

SECTION - C01700: CONTRACT CLOSEOUT

PART I - GENERAL

1.1 REQUIREMENTS
- A. All the operations and/or documents described in this section shall be completed and/or delivered to the project manager prior to acceptance of the work and final payment.

1.2 CLEANING
- A. General: Each Contractor or subcontractor shall remove and dispose of all tools, equipment, surplus material and rubbish pertaining to his work, and cooperate in final cleaning by general contractor.
- B. Final Cleaning: Thoroughly clean the entire project upon completion of the work, including but not necessarily limited to: Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all metals, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process, to leave the entire premises in clean, new operating condition.
- C. Equipment and Systems: The attention of the Contractor is directed to the fact that scale, metal shaving, oil, pipe dope and every impurity will tend to accumulate at restricted points and impede flow. Every precaution shall therefore be observed in the assembly of the systems to remove and exclude foreign matter and upon completion of erection, a thorough cleaning program shall be observed. The cleaning operation shall be accomplished after all parts of the systems are in place but before any are insulated or furred in. Remove all labels, dirt, paint, grease and stains from all exposed devises, equipment and fixtures installed under this contract. Clean and polish all equipment upon completion of the work to present a first class job suitable for occupancy.

1.3 AFFIDAVITS
- A. Provide "Full Waiver Final Lien Release" form, "Affidavit of Completion and Warranty" as required in the contract.

1.4 OPERATING AND MAINTENANCE DATA:
- A. Complete mechanical equipment operating manuals and instructions, specification data, diagrams and charts as specified in Division 15. Include the name, address and 24 hour telephone number of service representatives for the plumbing, HVAC, and electrical systems. Include diagrams and wiring diagrams of contractor-furnished equipment. Provide this information to the on site Operator and CFA Facilities.

1.5 SYSTEMS DEMONSTRATIONS
- A. Each separate system with its various components shall be operated by this contractor or his subcontractors for a responsible length of time to demonstrate the performance of all equipment and piping in accordance with the true intent and purpose of the plans and specifications. All necessary adjustments shall be made to the satisfaction of the Owner.

1.6 GUARANTEES AND WARRANTIES
- A. Certain certificates of warranties and guarantees shall be required. These guarantees and warranties, along with duly executed instruments properly assigning said guarantees and warranties shall be forwarded to the Owner, bound in a single volume, grouped by trade and properly indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications for the required documents. The following list is included for the Contractor's convenience and does not necessarily include all required documents:
  1. General contractor's written guarantee stating that the work in its entirety is guaranteed for a period of one year from the date of substantial completion against all defects in materials and workmanship.
  2. Roofing installer's written guarantee to the Contractor stating that all work performed under said subcontract is guaranteed for a period of one (1) years against all defects in materials and workmanship. In the event the work is performed by the general contractor's own forces, this guarantee shall be from the general contractor to the Owner.
  3. Written termite guarantee stating that soil poisoning treatment is guaranteed for a period of five (5) years, and that said treatment is renewable on a year to year basis by contract with the Owner.
  4. Manufacturer's warranties on new air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the Owner.
  5. All certificates such as Ansul systems, fire protection, certificates of occupancy, etc.

1.7 OPENING DAY CONTRACTOR PERSONNEL
- A. Owner shall notify Contractor in writing of his scheduled "Opening Day" for business. Contractor shall arrange for his job superintendent to be present at the site to assist the Owner from 9:00 a.m. thru 2:00 p.m. on that day. In addition, Contractor shall arrange for his mechanical (HVAC), plumbing and electrical subcontractor's job superintendents to be on call to the project during those same hours.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01700

SECTION - C01720: PROJECT RECORD DOCUMENTS

PART I - GENERAL

1.1 DESCRIPTION
- A. Related Drawings, Product Data and Samples

1.2 MAINTENANCE OF DOCUMENTS
- A. Maintain one copy of:
  1. Contract Drawings - As Builts
  2. Specifications
  3. Addenda
  4. Approved Shop Drawings
  5. Supplemental Instructions
  6. Change Orders
  7. Other Modifications of Contract
  8. Field Test Records
  9. Correspondence File
- B. Store documents in approved locations, apart from documents used for construction.
- C. Maintain documents in clean, dry, legible condition.
- D. Do not use record documents for construction purposes.
- E. Make documents available at all times for inspection by Architect/Engineer and Owner.

1.3 MARKING DEVICES
- A. Provide felt marking pen for marking. Make notations in "red."

1.4 RECORDING
- A. Label each document "PROJECT RECORD" in 2 inch high printed letters.
- B. Keep record documents current.
- C. Do not permanently conceal any work until required information has been recorded.
- D. Contract Drawings. Legibly mark to record actual construction:
  1. Factory and field seams in membrane, dimensionally located.
  2. Field changes of dimension and detail.
  3. Changes made by Supplemental Instruction or Change Order.
  4. Details not on original Contract Drawings.
- E. Project Manual and Addenda. Legibly mark-up each section to record:
  1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
  2. Changes made by Supplemental Instruction of Change Order.
  3. Other matters not originally specified
- F. Project Submittals: Maintain as record documents. Legibly mark-up approved shop drawings to show changes made after review.

1.5 SUBMITTAL
- A. At completion of project, deliver record documents to Owner.
- B. Accompany submittal with transmittal letter, in duplicate containing:
  1. Date
  2. Project title and number.
  3. Contractor's name and address.
  4. Title and number of each record document.
  5. Certification that each document as submitted is complete and accurate.
  6. Signature of Contractor, or his authorized representative.
  7. G.C. to provide PVC tube and set of record drawings.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01720

DIVISION 02 - EXISTING CONDITIONS

SECTION - C02000: SITE WORK
See Civil drawings for Sitework Specifications.
C02200 DEMOLITION
C02205 UTILITIES - RELOCATE
C02300 CLEARING, EXCAVATION & GRADING
C02500 SITE UTILITIES
C02600 STORM DRAINAGE
C02700 PAVEMENT SURFACES
C02850 MISCELLANEOUS SITE IMPROVEMENT

END OF SECTION C02000

SECTION - C02300: SUBSURFACE INVESTIGATION

PART I - GENERAL

1.1 GENERAL
- A. Geotechnical Investigation (Sub-surface Soils Tests) for the project site has been performed and a report of that investigation has been completed. A copy of the investigation report is part of the required download documents given to the General Contractor.

1.2 SUBSURFACE INFORMATION
- A. Log of borings indicates materials penetrated at specific locations. Owner and/or Architect assume no responsibility for any conclusions or interpretations made by Contractor related to information included in the Report. Should Contractor require additional information concerning sub-surface conditions, he may without cost to Owner, make additional investigations. Should additional investigations produce information different from that in Soil Report, notify Owner in writing.

1.3 REQUIREMENT
- A. Contractor read and otherwise become completely familiar with contents of Soil Report, including but not limited to its recommendations for preparation of subsoil, bases, sub-bases and fill and construction of building foundations, parking and paving. Provide building foundations in compliance with recommendations in Report. Should discrepancy be found between the requirements of Soil Report and the drawings and/or specifications, notify Architect in writing prior to beginning Work.
- B. Structural Engineer to state applicable data for final design from the soil report. Reference drawings for details.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C02300

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

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Bentonville, Arkansas 72712
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STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022006460
ENGINEER
Digitally signed by Steven Louis Baker
DN: E=steven.baker@hfa-ae.com, CN=Steven Louis Baker, O=Harrison French and Associates, L=Bentonville, S=ARKANSAS, C=US
Date: 2022.07.13 09:25:55-05'00'
STEVEN L.BAKER A-2022006460
HARRISON FRENCH & ASSOCIATES, LTD
A-2005011993-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET SPECIFICATIONS

SHEET NUMBER A-902

BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO/02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:50:59 PM
02859-A-902-SPECIFICATIONS

SECTION - C02361: TERMITE CONTROL

PART I - GENERAL

1.1 SUMMARY
A. All products and services shall be provided by the Owner's National Account Vendor, refer to National Accounts List.
B. This Section includes the following:
1. Soil treatment with termiticide.
2. Wood treatment with borate.
3. Metal mesh barrier system.

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06100
B. Flexible and Sheet Metal Flashing: SECTION C07600

1.3 SUBMITTALS
A. Product Data: For each type of product indicated. Include the EPA-Registered Label.
B. Product certificates.
C. Soil Treatment Application Report: Include the following:
1. Date and time of application.
2. Moisture content of soil before application.
3. Brand name and manufacturer of termiticide.
4. Quantity of undiluted termiticide used.
5. Dilutions, methods, volumes, and rates of application used.
6. Areas of application.
7. Water source for application.
D. Wood Treatment Application Report: Include the following:
1. Date and time of application.
2. Brand name and manufacturer of borate.
3. Quantity of undiluted borate used.
4. Dilutions, methods, volumes and rates of application used.
5. Areas of application
6. Schedule of inspections for one-year from date of Substantial Completion.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: A specialist who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located.
B. Regulatory Requirements: Formulate and apply termiticide according to the EPA-Registered Label.

1.5 WARRANTY
A. Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation.
1. Warranty Period: Five years from date of Substantial Completion.

1.6 MAINTENANCE SERVICE
A. Continuing Service: Beginning at Substantial Completion, provide 12 months' continuing service including monitoring, inspection, and re-treatment for occurrences of termite activity. Provide a standard continuing service agreement. State services, obligations, conditions, and terms for agreement period; and terms for future renewal options.

PART II - PRODUCTS

2.1 TERMITE CONTROL COMPANIES
A. Terminix, Phone: (901) 597-1312, ATTN: Aspatia Presley

2.2 COMPONENTS
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. Termiticides:
a. Aventis Environmental Science USA LP; Termidor
2. Bayer Corporation; Premise 75
3. Dow AgroSciences LLC; Dursban TC, Equity
b. FMC Corporation, Agricultural Products Group; Talstar, Prevail FT, Torpedo
4. Syngenta; Demon TC
5. Borates:
a. Nisus Corp.; Bora-Care, Jecta.
b. NovaGuard Technologies, Inc.; Armor-Guard, Shell-Guard.
c. U.S. Borax Inc.; Tim-Bor.
6. Metal Mesh Barrier System:
a. TERMI-MESH, Inc.; TERMI-MESH

2.3 SOIL TREATMENT
A. Termiticide: Provide an EPA-registered termiticide complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.

2.4 WOOD TREATMENT
A. Borate: Provide an EPA-registered borate complying with requirements of authorities having jurisdiction, in an aqueous solution for spray application and a gel solution for pressure injection, formulated to prevent termite infestation in wood. Provide quantity required for application at the label volume and rate for the maximum diffusible borate concentration allowed for each specific use, according to product's EPA-Registered Label.

2.5 METAL MESH BARRIER SYSTEM
A. Product: Subject to compliance with requirements, provide "TERMI-MESH" by TERMI-MESH, Inc.
B. Stainless-Steel Mesh: 0.025-by-0.018-inch (0.64-by-0.45-mm) mesh of 0.08-inch-(2.0-mm-) diameter, stainless-steel wire, Type 316.

PART III - EXECUTION

3.1 PREPARATION
A. General: Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil within and around foundations.
B. Soil Treatment Preparation: Loosen, rake, and level soil to be treated except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.

3.2 APPLYING SOIL TREATMENT
A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.
1. Slabs-on-Grade and Basement Slabs: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.
2. Foundations: Adjacent soil including soil along the entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating the slab, and around interior column footers, piers, and chimney bases; also along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
3. Masonry: Treat voids.
4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.
B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.
D. Post warning signs in areas of application.
E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

3.3 APPLYING BORATE TREATMENT
A. Application: Mix wood treatment borate solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of borate, according to manufacturer's EPA-Registered Label, so that wood framing, sheathing, siding, and structural members subject to infestation receive treatment.
1. Framing : Apply borate solution by spray to bare wood for complete coverage.

3.4 INSTALLING METAL MESH BARRIER SYSTEM
A. Metal Mesh Barrier; Place metal mesh barrier where indicated to provide a continuous barrier to entry of subterranean termites.
1. Fit mesh tightly around pipe or other penetrations, and terminate at slab and foundation perimeters.
2. Install mesh under the perimeter of concrete slab edges and joints after vapor barrier and reinforcing steel are in place, and comply with manufacturer's written installation methods.

END OF SECTION C02361

SECTION - C02831: CHAIN LINK FENCES AND GATES (SECURITY)

PART I - GENERAL

1.1 SUMMARY
A. Provide a 6-foot high chain link fence as may be required by the municipality or required for security reasons.

PART II - PRODUCTS

2.1 BASIC MATERIALS
A. Framework: Schedule 40 steel pipe, standard weight, one piece without joints; ASTM A120.
1. Line Posts: 1.9 inch diameter, length required for 8 feet height.
2. Corner and Terminal Posts: 2.38 inch diameter (min.); size to be determined by use and engineering design. Length as for line posts.
3. Gate Posts: 3.5 inch diameter (min.) for gates 5 feet wide and less and 6.0 inch diameter (min) for gates 5 feet wide and over; size to be determined by use and engineering design. Length as for line posts.
4. Top, Bottom and Brace Rails: 1.66 inch diameter, plain end, sleeve coupled.
5. Gates: 1.66 inch diameter (min.) for gates 5 feet wide and less, and 3 inch diameter (min) for gates 5 feet wide and over, for fittings and truss rod fabrication; size to be determined by engineering design.
B. Fabric: Three inch 9-gauge diamond mesh steel wire, interwoven, top selvage twisted tight, bottom selvage knuckle end closed. Zinc coated; FS RR-F-191 Type I.
C. Fittings: Steel; sleeves, bands, clips, rail ends, tension bars, fasteners and fittings.
D. Concrete: Portland Cement; 2500 psi at 28 days; 3 inch slump; ASTM C94.
E. Caps: Cast steel or malleable iron; sized to post dimension, set screw retained.

PART III - EXECUTION

3.1 INSTALLATION
A. General: Install framework, fabric, accessories and gates in accord with ANSI/ASTM F567 and accepted shop drawings.
B. Framework:
1. Posts: Space line posts at intervals of 10 feet (max.). Set terminal, gate and line posts plumb, in concrete footings with top of footing 6 inches below finish grade. Footing depth below finish grade: ANSI/ASTM F567.
2. Braces and Rails: Provide top rail through line post tops and splice with 7-inch long rail sleeves. Brace each gate and corner post back to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail, one bay from end and gate posts. Install center and bottom brace rail on corner and gate leaves.
C. Fabric: Stretch between terminal posts or at intervals of 100 feet, whichever is less. Position bottom 2 inches above finished grade. Fasten to top rail, line posts, braces, and bottom tension wire with wire ties 15 inches o.c. max. Attach to end, corner, and gate posts with tension bars and tension bar clips. Install continuous bottom rail between terminal posts.
D. Accessories: Install caps and roof fabric support arms and attach fabric; tension and secure. Install slats in service yard gates only.
E. Gates: Install in accord with manufacturer's instructions, including: hardware and concrete work required for locking devices for center of double gate openings.

END OF SECTION C02831

SECTION - C02920: LANDSCAPING

PART I - GENERAL

LANDSCAPING BY OWNER

1.1 SCOPE OF WORK
A. Landscape work, including the furnishing and installation of the irrigation (sprinkler) system, seeding, sodding, and the planting of trees, shrubs and vines.
B. General Contractor shall furnish and install at applicable depth, 6 inch diameter, schedule 40 PVC sleeves as required to provide access to all site planting areas to receive irrigation system and/or controls. Mark site for exact locations.
C. Top soil: Coordinate with landscaper for distribution or 6 inches of top soil.
D. Recommendation: Include a regional materials preference that calls out a preference for landscaping sourced within 500 miles of the project site and include a reference to the Landscape Standard.

1.2 NOTE
A. Landscape contractor shall be responsible for cleaning the sidewalks and parking lot areas of dirt and debris specifically caused by their portion of this work.
B. General Contractor shall coordinate installation of landscaping with owner's schedule.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Refer to landscape drawings for landscaping specifications

END OF SECTION C02920

DIVISION 03 - CONCRETE

SECTION - C03000: FOOTING / SLAB ON GRADE
Refer to structural drawings for section C03000.

DIVISION 04 -MASONRY

SECTION - C04810: UNIT MASONRY ASSEMBLIES

PART I - GENERAL

1.1 SUMMARY
A. This Section includes unit masonry assemblies consisting of the following:
1. Concrete masonry units (CMUs).
2. Face brick.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

1.3 RELATED WORK
A. Structural Steel and Miscellaneous Steel: C05000 (See Structural Drawings)
B. Flexible and Sheet Metal Flashings: C07600

1.4 PROJECT 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 ACI 530.1/ASCE 6/TMS 602.
B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART II - PRODUCTS

2.1 FACE BRICK - C04060
A. Manufactures:
1. See National Account and Exterior Finish schedules
B. Colors, Textures and Patterns:
1. Exposed Masonry Units: As selected from manufacturer's full range.
C. General: Provide shapes indicated and as follows
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.
D. Face Brick: ASTM C 216, Grade SW, Type FBS
1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 3000 psi (20.7 MPa).
2. Initial Rate of Absorption: Less than 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested per ASTM C 67.
3. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not efflouresced."
4. Size: Modular 2-5/8-inches x 3-5/8-inches x 7-5/8-inches

2.2 CONCRETE MASONRY UNITS (CMUs) - C04220
A. Shapes: Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
B. Integral Water Repellent: Provide units made with liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength for exposed units. Required for split-face CMU.
1. Available Products:
a. Addiment Incorporated; Block Plus W-10.
b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Dry-Block.
c. Master Builders, Inc.; Rheopel.
C. Split Face CMU: Split-faced block pre-sealed with a silicone based coating.

2.3 MORTAR AND GROUT MATERIALS
A. General: Do not use admixtures, unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
2. Limit cementitious materials in mortar for exterior and reinforced masonry to Portland cement and lime.
B. Portland Cement: ASTM C 150, Manufacturer: Holcim - Type I or II, except Type III may be used for cold-weather construction. Refer to finish schedule for color.
1. Alternate Manufacturer: Brixment
C. Hydrated Lime: ASTM C 207, Type N.
D. Aggregate for Mortar: ASTM C 144.
1. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
E. Aggregate for Grout: ASTM C 404.
F. 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.
1. 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.
G. Water: Potable.
H. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification.
I. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification.
1. For masonry below grade or in contact with earth, use Type M or S.
2. For reinforced masonry, use Type S.
3. For mortar parge coats, use Type S.
4. Any regions where type S is required by code (Seismic Design Categories D, E, F). Refer to Structural Drawings for Seismic Design Category information.
5. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N.
6. Alternates allowed when cost prohibitive, and when approved by Construction Manager
J. 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 Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
2. Provide grout with a slump of 8 to 11 inches (200 to 280 mm) as measured according to ASTM C 143/C 143M.

2.4 REINFORCEMENT
A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).
B. Masonry Joint Reinforcement: ASTM A 951; mill galvanized, carbon-steel wire for interior walls and hot-dip galvanized, carbon-steel wire for exterior walls.
1. Wire Size for Side Rods: W1.7 or 0.150-inch diameter.
2. Wire Size for Cross Rods: W1.7 or 0.150-inch diameter.
3. Wire Size for Veneer Ties: W1.7 or 0.150-inch diameter.
4. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches (407 mm) o.c.
5. Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.

2.5 TIES AND ANCHORS
A. Materials:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82; with ASTM A 153/A 153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, hot-dip galvanized after fabrication to comply with ASTM A 153/A 153M.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, primed.
B. Corrugated Wall Ties: Provide anchors that are a minimum 22 gauge x7/8-inch wide with a corrugation wave length of between 0.3 to 0.5 inches and an amplitude of 0.06 to 0.1 inches. Installed with screws or ring-shanked nails. The fastener shall be located no more than 1/2-inch from the 90-degree bend in the anchor.
C. Wire Ties: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches (50 mm) parallel to face of veneer.
D. Individual Wire Ties: Rectangular units with closed ends and not less than 4 inches (100 mm) wide. Fabricate from 1/4-inch- (6.4-mm) diameter, hot-dip galvanized steel wire.
E. Partition Top Anchors: 0.097-inch- (2.5-mm) thick metal plate with 3/8-inch-(10-mm-) diameter metal rod 6 inches (150 mm) 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.
F. Rigid Anchors: Fabricate from steel bars 1-1/2 inches (38 mm) wide by 1/4 inch (6.4 mm) thick by 24 inches (600 mm) long, with ends turned up 2 inches (50 mm) or with cross pins.
G. Adjustable Masonry-Veneer Anchors
1. General: Provide anchors that allow vertical adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to wood or metal studs, and as follows:
a. Structural Performance Characteristics: Capable of withstanding a 100-lbf (445-N) load in both tension and compression without deforming or developing play in excess of 0.05 inch (1.3 mm).
2. Screw-Attached, Masonry-Veneer Anchors: Units consisting of a wire tie and a metal anchor section.
a. Wire Ties: Triangular-, rectangular-, or T-shaped wire ties fabricated from 0.25-inch (6.4-mm) diameter steel wire.
3. Seismic Masonry-Veneer Anchors: Units consisting of a metal anchor section and a connector section designed to engage a continuous wire embedded in the veneer mortar joint.
a. Anchor Section: Rib-stiffened, sheet metal plate with screw holes top and bottom, and slotted holes for inserting connector section.
b. Connector Section: Rib-stiffened, sheet metal bent plate; sheet metal clip; or wire tie and rigid extruded vinyl clip designed to engage continuous wire. Size connector to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face.
c. Fabricate sheet metal anchor sections and other sheet metal parts from 0.097-inch- (2.5-mm-) thick, steel sheet.
d. Fabricate wire connector sections from 0.25-inch- (6.4-mm) diameter, carbon-steel wire.

2.6 EMBEDDED FLASHING MATERIALS
A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with Division 7 Section "Sheet Metal Flashing and Trim."
1. Metal Drip Edges: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
2. Metal Flashing Terminations: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 3/8 inch (10 mm) to form a stop for retaining sealant backer rod.
3. Metal Expansion-Joint Strips: Fabricate from stainless steel to shapes indicated.

2.7 MISCELLANEOUS MASONRY ACCESSORIES
A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; 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.
C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
D. Weep/Vent Products: Use the following, unless otherwise indicated:
1. Wicking Material: Absorbent rope made from cotton or UV resistant synthetic fiber, 1/4-inch to 3/8-inch (6 mm to 10 mm) in diameter, in length required to provide 2 inch (50 mm) exposure on exterior and 18-inches (450 mm) in cavity between wythes. Use only for weeps.
E. Cavity Drainage System: As manufactured by Mortar Net.

2.8 MASONRY CLEANERS
A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains from new masonry without damaging masonry. Use product approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Use full-size units without cutting if possible. If cutting is required, 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.
C. Comply with tolerances in ACI 530.1/ASCE 6/TMS 602 and with the following:
1. 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 (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) 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 (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.

3.2 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 (100-mm) horizontal face dimensions at corners or jambs.
C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
D. Fill space between steel frames and masonry solidly with mortar, unless otherwise indicated.
E. Fill cores in hollow concrete masonry units with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items, unless otherwise indicated.

3.3 MASONRY JOINT REINFORCEMENT
A. General: Install in mortar with a minimum cover of 5/8 inch (16 mm) on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).
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.

3.4 ANCHORING SEISMIC MASONRY VENEERS
A. Anchor masonry veneers to wall framing with seismic masonry-veneer anchors to comply with the following requirements:
1. Fasten screw-attached and seismic anchors through sheathing to wall framing with metal fasteners of type indicated. Use two fasteners.
2. Embed tie sections in masonry joints. Provide not less than 2 inches (50 mm) of air space between back of masonry veneer and face of sheathing.
3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
4 Space anchors as indicated, but not more than 16 inches (406 mm) o.c. vertically and 24 inches (610 mm) o.c. horizontally with not less than 1 anchor for each 2.67 sq. ft. (0.25 sq. m) of wall area. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 36 inches (914 mm), around perimeter.

3.5 FLASHING, WEEP HOLES, CAVITY DRAINAGE, AND 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 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 as recommended by flashing manufacturer.
2. At lintels and shelf angles, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal drip edge.
4. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal flashing termination.
C. Install weep holes in head joints in exterior wythes of first course of masonry immediately above embedded flashing and as follows:
1. Use specified weep/vent products to form weep holes.
2. Space weep holes 24 inches (600 mm) 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 cavities to comply with configuration requirements for cavity drainage material in Part 2 "Miscellaneous Masonry Accessories" Article.
E. Install vents in head joints in exterior wythes at spacing indicated. Use specified weep/vent products to form vents.
1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.6 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 other temporary loads that may be placed on them during construction.

3.7 FIELD QUALITY CONTROL
A. Inspectors: Owner will engage qualified independent inspectors to perform inspections and prepare reports. Allow inspectors access to scaffolding and work areas, as needed to perform inspections.
1. Place grout only after inspectors have verified compliance of grout spaces and grades, sizes, and locations of reinforcement.
B. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections indicated below and prepare test reports:
C Mortar Test (Property Specification): For each mix provided, per ASTM C 780. Test mortar for mortar air content and compressive strength.

3.8 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. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes.
2. Protect adjacent surfaces from contact with cleaner.
3. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
4. Bucket-and-brush; hand-cleaning method described in BIA Technical Notes 20.
5. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
6. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

END OF SECTION C04810

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CHICK-FIL-A
DRIVE-THRU EXPANSION
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LEE'S SUMMIT, MO 64086

FSR#02859
BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
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DESIGNED BY Designer

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SHEET SPECIFICATIONS
SHEET NUMBER A-903

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02859-A-903-SPECIFICATIONS

DIVISION 05 - METALS

SECTION - C05000: STRUCTURAL AND MISCELLANEOUS STEEL
Refer to Structural Drawings

SECTION - C05050 BASIC METAL MATERIALS AND METHODS
PART I - GENERAL
A. Refer to Structural Steel drawings

PART II - PRODUCTS
2.1 STRUCTURAL-STEEL MATERIALS
A. Recycled Content of Steel Products: Show preference to products with an average recycled content of steel products so post-consumer recycled content plus one-half of pre-consumer recycled content is not less than 50 percent. Under the condition that there is not a significant increase in price between the products.

2.2 STAINLESS STEEL PANELS
A. Stainless Steel Backsplash at Kitchen Sinks; 18 Gauge, Grade 430 Stainless Steel sheet with No. 4 finish.
1. Install with construction adhesive as shown and at locations shown on Drawings.
2. Minimize joints between sheets.
a. Overalp sheets by 1". Overlapping sheet to have hemmed edge with pre-drilled holes at 12" O.C. Fasten in place with stainless steel 1 1/2" #12 Truss head screws
3. Install T-shaped transition strip to overlap FRP at exposed sheet edge
b. When indicated on drawings, install Z-bar flashing to overlap sink and FRP at bottom edge of panel
c. Provide silicone sealant as specified in Section 07900 at junction of transition strip and flashing at wall

PART III - EXECUTION
B. Refer to Structural Steel drawings

END OF SECTION C05050

SECTION - C05120: STRUCTURAL STEEL
Refer to Structural Drawings

SECTION - C05400: COLD FORMED METAL FRAMING
Refer to Structural Drawings

SECTION - C05514: ALUMINUM LADDERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Aluminum access ladders.

1.2 RELATED SECTIONS
A. Roof Hatches: SECTION C07720

1.3 REFERENCES
A. AA - Aluminum Association.
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
D. OSHA 1910.27 - Fixed Ladders.

1.4 QUALITY ASSURANCE
A. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.

1.5 WARRANTY
A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years from date of Substantial Completion against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies. Defects in materials and workmanship

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturer:
1. O'Keeffe's, Inc.,, San Francisco, CA 94124
a. 26% recycled content - pre/post not specified.
2. Alaco Ladder Company, Chino, CA 91710
a. 40-85% post-industrial scrap and 5-15% post-consumer scrap.

2.2 APPLICATIONS/SCOPE
A. Fixed Ladder Design
B. Fixed Ladder Bottom Bracket
C. Bottom floor supported bracket
D. Bottom wall supported bracket
E. Bracket as drawn

2.3 FINISHES
A. Extruded Mill Finish

2.4 FABRICATION
A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18-3/8 inches (467mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.
B. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure
C. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.
D. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.

PART III - EXECUTION

3.1 EXAMINATION
A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

3.2 INSTALLATION
A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

DIVISION 06 - WOOD AND PLASTICS

SECTION C06000 - CARPENTRY
Refer to Structural Drawings
SECTION C06100 - ROUGH CARPENTRY

Refer to Structural Drawings

SECTION - C06170 WOOD TRUSSES:
Refer to structural drawings.

SECTION - C06200: FINISH CARPENTRY

PART I - GENERAL

1.1 SECTION INCLUDES
A. Interior trim, jambs and millwork
B. Interior architectural wall surfacing.
C. Plastic Laminated casework
D. Factory finishing
E. Hardware, typically furnished by the woodworking manufacturer

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06100
B. Solid Non-Porous Sheet and Shape Products: SECTION C06410
C. Millwork, Cabinetry and Countertops: SECTION C12390

1.3 REFERENCES
A. Minimum standards for work within this section shall be in conformity with the MANUAL OF MILLWORK, latest edition, Standards of the Architectural Millwork Industry as adopted by the WOODWORK INSTITUTE.

1.4 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section to Owner for acceptance prior to fabrication.

1.5 QUALITY ASSURANCE
A. Performance shall be in accordance with Custom GRADE of the WOODWORK INSTITUTE - MANUAL OF MILLWORK, latest edition.
1. If provisions for the Grade specified are in conflect with, or modified by the drawings and/or specifications, the modifications shall govern.

1.6 QUALIFICATIONS
A. Contractors and their personnel engaged in the work shall be able to demonstrate successful experience with work of comparable extent, complexity and quality to that shown and specified.
1. Fabricator shall be a member/licensee in good standing of the WOODWORK INSTITUTE.
2. Installer shall be a member/licensee in good standing of the WOODWORKING INSTITUTE.

1.7 DELIVERY, STORAGE and HANDLING
A. Deliver all materials only when the project is ready for installation and the general contractor has provided a clean storage area as defined in the MANUAL OF MILLWORK.

1.8 SEQUENCING and SCHEDULING
A. Coordinate all fabrication, delivery and installation work with the general contractor and applicable trades.

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and portions of this specification written on the basis of using the products of a specific manufacturer. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.2 COMPONENTS
A. Made with binder containing no urea formaldehyde resin.
B. Paneling: Hardwood veneer plywood paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1, made without urea formaldehyde adhesives.
C. Shelving: Do not use particleboard or MDF that contains urea formaldehyde.
D. Moisture Content: Trim lumber; 12% maximum at time of delivery.
E. Grading and Marking:
1. Softwood Lumber: FS MM-L-0075lf
2. Hardwood Lumber: FS MM-L-00736a

2.3 MATERIALS
A. General Use:
1. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
2. Interior Wood Trim:
a. General Use (Paint): Contractor's option: "C" Select Grade, Sugar Pine, Idaho White Pine, Magnolia, Birch, Redwood or Fir.
b. Natural Finish (Stain): Clear, plain sawn, Yellow pine, AWI Grade 1.
3. Interior Finish Plywood: 3/4 inch paint grade, lumber core, Birch plywood
4. Shelving: 3/4 inch AB Grade Fir plywood with "C" Select Grade Maple edge trim.
5. Wood Benches/Tables: Clear, plain sawn, Yellow pine, AWI Grade 1. 9. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.
6. Screws: FS FF-S-11 lb.
7. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.
8. Toggle Bolts: FS FF-B-588b.
B. Cabinets
1. Doors, Panels, Ends, Etc.: 3/4-inch 4B Grade, Group 3, Ponderosa pine, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch C Select Grade, White pine.
3. Shelving and Dividers: 3/4-inch 4B Grade, Group 3, Ponderosa pine; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Filler Strips: Match face materials
7. Hardware: Knape and Vogt, Garcy, Stanley, Hafele; to suit functions. Standards of quality:
a. Hinges: Continuous stainless steel piano hinge, concealed, complete with guides and template for installation.
b. Catches: "Hafele" pressure catch No. 245.54.710.
c. Shelf standards and brackets: Noted on the drawings.
d. Locks: Noted on the drawings.
C. Office Cabinets and Counters:
1. Doors, Panels, Ends, Etc.: 3/4-inch AB grade clear White Pine plywood, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch "C" select grade solid clear White Pine.
3. Shelving and Dividers: 3/4-inch AB Grade clear White Pine plywood; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Hinges: Continuous concealed piano hinges, concealed, complete with guides and template for installation.
7. Filler Strips: Match face materials.
8. Hardware: Hager, Knape and Vogt, Stanley; to suit functions.
9. Catches: "Hafele" pressure catch No. 245.54.710.
10. Shelf Standards and Brackets: Noted on drawings
11. Locks: Noted on drawings
D. Laminated Plastic Assemblies:
1. NEMA standard LD-1; Class 1, high pressure decorative laminates: Color shown on the drawings:
a. Surface Sheet: 0.05 inch thick
b. Backing Sheet: 0.02 inch thick phenolic backing sheet.
c. Edging: 0.028 inch thick.
d. Adhesive: Fire resistant; Acceptable to laminate manufacturer.
e. Backing: 3/4-inch AB Group 1, exterior grade, APA fir plywood.
E. STANDING AND RUNNING TRIM
1. Multipurpose Construction Adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.

2.4 FABRICATION
A. Fabricate in shop of millwork subcontractor and assemble in single and complete units to the greatest extent that requirements of delivery and installation in building will permit.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify the adequacy and proper location of any required backing or support framing.
B. Verify that mechanical, electrical, plumbing and other building items (supplied by others) effecting work in this section are in place and ready.

3.2 INSTALLATION
A. Install all work in conformance with MANUAL OF MILLWORK Custom GRADE.
B. All work shall be secured in place, square, plumb and level.
C. All work abutting other components shall be properly scribed.
D. Mechanical fasteners at exposed and semi-exposed surfaces, excluding installation attachment screws and screws used for attaching cabinets end-to-end, shall be countersunk.
E. Equipment cut-outs within countertops indicated on plans shall be cut by installer.
F. Method of attachment, including the type, size, frequency, and/or spacing of anchoring devices and fasteners shall comply to MANUAL OF MILLWORK minimum requirements or be as indicated in the plans or specifications.
G. All installations including attachment of casework and countertops shall be in compliance with MANUAL OF MILLWORK minimum requirements.

3.3 ADJUSTING
A. Before completion of the installation, the installer shall adjust all moving or operating parts to function smoothly and correctly.

3.5 CLEANING
A. Upon completion of installation, the installer shall clean all items installed of pencil or ink marks and broom clean the area of operation, depositing debris in containers provided by the general contractor.

END OF SECTION C06200

SECTION - C06410: SOLID NON-POROUS SHEET AND SHAPE PRODUCTS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Solid Surface as provided by Clayton Fixture, see National Account Schedule on drawings.
1. Solid surface countertops
2. Solid surface sinks
3. Solid surface millwork and window sills
4. Adhesives and sealants

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06110
B. Finish Carpentry: SECTION C06200
C. Sealants and Caulking: SECTION C07920
D. Millwork, Cabinetry and Countertops: SECTION C12390
E. Plumbing: DIVISION 15

1.3 SUBMITTALS
A. Submit Shop Drawings per Section - C01300 SUBMITTALS
B. Product Data
1. Submit product data for each specified product. Include manufacturer's technical data sheets and published instructions.
2. Submit Material Data Safety Sheets (MSDS) for adhesives and sealants.
C. Quality Assurance Submittals:
1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties, if required.
2. Warranty: Specimen copy of specified warranty.
D. Maintenance Data: Submit manufacturer's published maintenance manual with closeout submittals.

1.4 REGULATORY REQUIREMENTS
A. Accessibility Requirements: Comply with the U.S. Architectural & Transportation Barries Compliance Board ADA-ABA Accessibility Guidelines for Buildings and Facilities.

1.5 QUALITY ASSURANCE
A. Fabricator Qualifications: Minimum of three (3) years documented experience in fabricating solid surfacing countertops similar in scope and complexity to this Project. Currently certified by the manufacturer as an acceptable fabricator.
B. Installer Qualifications: Minimum of three (3) years of documented installation experience for projects similar in scope and complexity to this Project, and currently certified by the manufacturer as an acceptable installer.

1.6 DELIVERY, STORAGE and HANDLING
A. Delivery: Deliver sinks in original containers.
B. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at room temperature and humidity conditions recommended by manufacturer. Store sheet materials flat on pallets or similar rack-type storage to preclude damage.

1.7 PROJECT CONDITIONS
A. Field Measurements: Verify actual measurements and openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
B. Adhesive: Acclimatize adhesives to occupancy room temperatures with maximum tepeerature not to exceed 75 degrees F.

1.8 WARRANTY
A. Manufacturer's Limited Warranty: Provide manufacturer's standard ten (10) Year Commerical Limited Warranty against defects in solid surface sheet materials.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Basis of Design: Aristech Surfaces LLC - manufacturer of Avonite.

2.2 MATERIALS
A. Composition: Acrylic resins, fire-retardant mineral fillers, and proprietary coloring agents. Through-the-body color for full thickness of sheet material.
B. Sheet Products (vanity countertops): Manufacturer noted on finish schedule in drawings; 1/2 inch thick sheets, continuous length with bull-nose edge with integral back and side splash, and 3/4 inch exterior grade APA Fir plywood backing.
C. Shaped Products: Integral one-piece bowl; manufacturer's standard; if specified in mechanical portions of these specifications.
D. Patterns and Colors: As noted on finish schedule in drawings.

2.3 FABRICATION
A. Fabricate components in shop, to greatest extent practicable, in size and shapes indicated according to approved shop drawings and manufacturer published fabrication requirements.
B. From joint seams between solid surfacing components with specified seam adhisive. Completed joint inconspicuous in appearance and without voids.
C. Provide holes and cutouts indicated on approved shop drawings. Rout cutouts and complete by sanding all edges smooth.

PART III - EXECUTION

3.1 EXAMINATION
A. Examine substrates and conditions that could adversely affect the work of this Section.
B. Substrates must be sound, flat, smooth, and free from dusts or other surface contaminants.
C. Commencement of work will constitute acceptance of substrates and conditions to receive the work.

3.2 COUNTERTOP INSTALLAION
A. Install solid surfacing components plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions. Use woodworking and specialized fabrication tools acceptable to manufacturer.
B. From joint seams with specified seam adhesive. Seams in locations shown on approved shop drawings and acceptable to manufacturer.
C. Rout sink coutouts to manufacturer's template. Adhere solid surface cast sinks units to countertops with specified construction adhesive.
D. Install backsplashes and endsplashes where indicated on Drawings. Adhere to countertops with specified construction adhesive.

3.3 WINDOW SILL INSTALLATION
A. Install window sills for full length of each window unit, securing to substrates with concealed fasteners and specified adhesive.
B. Provide minimum 1/8-inch expansion gap on both sides of window sills. Fill gap with specified joint sealant.
C. Completed work to be plumb, level and true, with edges eased and sanded smooth.

3.4 REPAIR
A. Minor surface marring for solid surface components may be repaired according to manufacture's published installation instructions.
B. Remove and replace solid surface componets that are damaged and cannot be satisfactorily repaired.

3.5 CLEANING AND PROTECTION
A. Clean solid surface componets accoring to manufacture's published maintenance instructions. Completely remove excess adhesives and sealants from finished surfaces.
B. Protect completed work from damage during remainder of construction period.

END OF SECTION C06410

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FSR#02859
BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-904

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DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION - C07210: BUILDING INSULATION

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Perimeter wall insulation (supporting backfill).
2. Concealed building insulation.
3. Vapor retarders.

PART II - PRODUCTS

2.1 FOAM-PLASTIC BOARD INSULATION

A. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, 1.60 lb/cu. ft. (26 kg/cu. m), with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively:

1. Available Manufacturers:
   a. DiversiFoam Products, Mendota, IL 61342
   b. Dow Chemical Company, Midland, MI 48674
   c. Owens Corning, Toledo, OH 43659

2.2 GLASS-FIBER BLANKET INSULATION

A. Available Manufacturers:
   1. Owens Corning - Eco Touch, Toledo, OH 43659 (preferred)
   2. CertainTeed Corporation, Valley Forge, PA 19482
   3 Johns Manville, Denver, CO 80202

B. Faced, Glass-Fiber Blanket Insulation: ASTM C 665, Type II, Class C; Category 1 (membrane is a vapor barrier), faced with kraft faced vapor-retarder membrane on one face.

2.3 AIR BARRIER

A. Air Barrier (Building Felt): ASTM D266 one layer of 30 pound (Type II) asphalt saturated roofing felt.

B. Air Barrier (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.

C. Air Barrier (Building Wrap Tape): Pressure-sensitive plastic tape recommended by building wrap manufacturer for sealing joints and penetrations in building wrap.

2.4 VAPOR RETARDERS

A. Polyethylene Vapor Retarders: ASTM D 4397, 6 mils (0.15 mm) thick, with maximum permeance rating of 0.13 perm (7.5 ng/Pa x s x sq. m).

B. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

C. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and with demonstrated capability to bond vapor retarders securely to substrates indicated.

2.5 AUXILIARY INSULATING MATERIALS

A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by insulation manufacturers for sealing joints and penetrations in vapor-retarder facings.

B. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without damaging insulation and substrates.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions to products and application indicated.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.

C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Water-Piping Coordination: If water piping is located within insulated exterior walls, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.

E. For preformed insulating units, provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

3.2 INSTALLATION OF PERIMETER INSULATION

A. On vertical surfaces, set insulation units in adhesive applied according to manufacturer's written instructions. Use adhesive recommended by insulation manufacturer.
   1. If not otherwise indicated, extend insulation a minimum of 24 inches (610 mm) below exterior grade line.

B. Protect below-grade insulation on vertical surfaces from damage during backfilling by applying protection course with joints butted. Set in adhesive according to insulation manufacturer's written instructions.

3.3 INSTALLATION OF GENERAL BUILDING INSULATION

A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.

B. Seal joints between foam-plastic insulation units by applying adhesive, mastic, or sealant to edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.

C. Install mineral-fiber insulation 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 cavity, 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 (76-mm) clearance of insulation around recessed lighting fixtures.
   4. Install eave ventilation troughs between roof framing members in insulated attic spaces at vented eaves.
   5. For wood-framed construction, install mineral-fiber blankets according to ASTM C 1320 and as follows:
      a. With faced blankets having stapling flanges, secure insulation by inset, stapling flanges to sides of framing members.

E. Install board insulation on concrete substrates by adhesively attached, spindle-type insulation anchors as follows:
   1. Fasten insulation anchors to concrete substrates with insulation anchor adhesive according to anchor manufacturer's written instructions. Space anchors according to insulation manufacturer's written instructions for insulation type, thickness, and application indicated.
   2. Apply insulation standoffs to each spindle to create cavity width indicated between concrete substrate and insulation.
   3. After adhesive has dried, install board insulation by pressing insulation into position over spindles and securing it tightly in place with insulation-retaining washers, taking care not to compress insulation below indicated thickness.
   4. Where insulation will not be covered by other building materials, apply capped washers to tips of spindles.

3.4 INSTALLATION OF AIR BARRIER AND VAPOR RETARDER

A. Air Barrier (Building Felt): Install horizontally; begin by aligning bottom edge with base of wall 24-inches from a corner, print side out. Providing a 6-inch minimum horizontal lap and a 2-inch vertical lap. Work from the bottom up, taping all seams.

B. Air Barrier (Building Wrap): Seal seams, edges, fasteners, and penetrations with tape; Extend into jambs of openings and seal corners with tape; Comply with manufacturer's instructions and recommendations.

C. Vapor Retarders:
   1. Batt Insulation: Vapor retarder face shall be installed on the warm side of construction, unless otherwise indicated. Tape joints and ruptures in vapor retarder and seal each continuous area of insulation to surrounding construction to ensure airtight installation.
   2. Polyethylene Film: Use a combination of mechanical fasteners and sealant to attach to top plate, bottom plate and stud end. Place film over sealant without tension and press to provide contact. Secure to stud every 24-inches. Overlap edges a minimum 6-iches at vertical and horizontal edges.
      a. Extend vapor retarder to extremities of areas to be protected from vapor transmission where batt insulation cannot reach. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.

C. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.

D. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

END OF SECTION C07210

SECTION - C07464 - FIBER REINFORCED HYBRID (RAINSCREEN) SIDING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Board and Panel (Rainscreen) Siding for walls and soffits with batten strips and accessory trims and flashings. For exterior and interior use refer to the drawings.

1.2 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store in ventilated areas with constant minimum temperature of 60 degrees F (16 degrees C) and maximum relative humidity of 55 percent.

1.3 WARRANTY

A. See Section C01700 - Contract Closeout, for additional warranty requirements.

B. Correct defective Work within one year period after Date of Substantial Completion.

C. Provide fifteen (15) year manufacturer warranty for materials.

PART II - PRODUCTS

2.1 REGULATORY REQUIREMENTS

A. Conform to applicable code for fire retardant requirements.

2.2 MANUFACTURERS

A. Fiber Reinforced Decking:
   1. Resysta North America, Inc., Chino, CA 91710

2.3 MATERIAL

A. Fiber Reinforced Hybrid (Rainscreen) Siding: shall be an extruded composite consisting of a proprietary blend of approximately 60% rice husks, 22% common salt and 18% mineral oil.

B. Properties: Manufacturer to supply information regarding the various properties and characteristics of its product(s).

C. Fiber reinforced hybrid siding shall be workable, sandable and stainable similar to normal wood products.

2.4 SIDING

A. Board Siding: RESCP120612
   1. Size: 0.51 inches (13 mm) thick, 5.51 inches (140 mm) high nominal board with .394 inch (10 mm) interlocking shiplap reveal.
   2. Maximum Span: 16 inches.
   3. Profile: Flat face with ribbed back and grooved shiplap edge.
   4. Surface Texture: Sanded.

B. Corner Strip Closure (Outside End Corners): RESF12812
   1. Size: 1/2-inch (12.7 mm) thick by 8-inches (63.5 mm) wide by length.
   2. Install miscellaneous trims as shapes as required to provide a complete assembly.

2.5 FINISH

A. Stains and Sealer: Select from manufacturer's standard glaze colors.
   1. Manufacturer Provided Stain Color:
      a. FVG C 14 "Siam". Use Sherwin Williams SW6104 Kaffee paint on any ceiling or wall penetrations to match C 14. SW Pro Industrial Multi-Surface Acrylic Coating should be used on any metal surfaces such as mechanical vents. SW Pro Mar 200 Zero VOC in Eggshell finish should be used on all others surfaces such as drywall, wood, etc.
      b. Alternate: FVG C 28, where approved by owner. Use Sherwin Williams SW7523 Burnished Brandy to match C 28
   2. Sealer: 2K Protection Sealant

B. Use of non-manufacturer water borne or oil-based stain is not recommended and may violate the product warranty.

2.6 ACCESSORIES

A. Nails and Screws: Corrosion resistant type; non-staining, of size and strength to securely and rigidly retain the work, prefinished to match siding finish.

B. Flashing: Galvanized steel

C. Accessory Components: Fascias, Starter strips, and Trim of same material and finish as siding.

D. Prime Paint: Latex base primer enamel.

PART III - EXECUTION

3.1 EXAMINATION

A. Examine substrate conditions before beginning installation; verify dimensions and acceptability of substrate.

B. Verify that weather barrier has been installed over substrate completely and correctly.

C. Confirm metal flashings are installed at sills, heads of wall openings, and horizontal joints of sheet materials.

D. Do not proceed with installation until unacceptable conditions have been corrected.

E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Prime paint surfaces in contact with cementitious materials.

3.3 INSTALLATION

A. Install siding in accordance with manufacturer's instructions.
   1. Preplan cuts to allow for expansion gaps at inside and outside corners.
   2. Provide joint gaps as indicated on Drawings. Typical joint width is approximately 3/8-inch.

B. Attach vertical support battens (furring) securely to framing, not sheathing, with horizontal components true to level and vertical components true to plumb, providing a weather resistant installation.
   1. Place vertical support battens (furring) to allow screw attachment within two inches of the end of the horizontally placed siding panels.
   2. Confirm battens provide minimum 3/4-inch airspace between siding and weather barrier.

C. Manufacturer to ship pre-stained and pre-sealed individual planks. All trim and fascia panel trim boards will be shipped unfinished. GC is responsible for staining and sealing those elements prior to installation. Apply finish stain (1 Coat Stain, 2 Coats Sealant).
   1. Where alternate color is used manufacturer will ship unfinished boards and thus GC will be responsible for all staining and sealing as described above.

D. Fasten siding in place, level and plumb.
   1. Arrange for staggered joint (ship's deck) pattern.
   2. Install siding for natural shed of water.
   3. Position cut ends over bearing surfaces. Sand cut edges smooth and clean.

E. Install corner strips. Countersink screws at all exposed fasteners. See section I.

F. Install joint sealers between siding/soffit/trim and adjacent construction, using procedures specified elsewhere.

G. Touch-up prefinished paint surfaces that are disfigured. Unsightly touch-up will require removal and replacement of affected siding.

H. Sand work smooth and set exposed nails and screws. Ease sharp edges with 80-100 grit sandpaper for color uniformity prior to staining.

I. Install manufacturer supplied wood dowel plugs over all exposed "countersunk" screw hole locations. Sand down dowels to be flush with finish wall face & apply finish stain (1 Coat) to match. Manufacturer to supply an adequate amount of additional stain for GC's use.

3.4 TOLERANCES

A. Maximum Variation From Plumb and Level: 1/4-inch per 10 feet (6 mm/3 m).

B. Maximum Offset From Joint Alignment: 1/16-inch (1.5 mm).

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07464

SECTION - C07530: THERMOPLASTIC MEMBRANE ROOFING

PART I - GENERAL

1.1 SUMMARY

A. Contractor shall furnish and install a 50 mil, single ply membrane roofing system that is fabricated of a weft-inserted low shrink, Anti-wicking Polyester Fabric and has a thermoplastic coating laminated to both sides as manufactured by Duro-Last Roofing Inc.

B. Insulation: Refer to drawings for required thickness and R-Value, Polyisocyanurate, mechanically fastened. (Minimum Prototypical R-Value is 18.5 and prototypical thickness is 3"). Site adapt architect to verify & adjust plans per local regional requirements for actual thickness and R-Value required)

1.2 RELATED WORK

C. Flexible and Sheet Metal Flashing: SECTION C07600

D. Roof Sheet Metal and Trim: SECTION C07620

E. Roof Hatches: SECTION C07720

1.3 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
   1. Contact: Linday Beuthin, Regional Sales Manager, (800) 248-0280, ext 2110. Installer must be authorized.

B. Source Limitations: Obtain components for membrane roofing system from approved roofing membrane manufacturer.

C. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction.
   1. Exterior Fire-Test Exposure: Class A; ASTM E 108, for application and roof slopes indicated.

1.4 WARRANTY

A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing and flashing system that fail in materials or workmanship within 15 years from date of Substantial Completion. Failure includes roof leaks. It is the Owner's intent to secure a system warrantee for the membrane roofing and roof flashing under one manufacturer's warrantee, with one contractor.

PART II - PRODUCTS

2.1 PVC ROOFING MEMBRANE

A. PVC Sheet: ASTM D 4434, Type III, fabric reinforced.
   1. Manufacturers:
      a. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Account)
   2. Thickness: 50 mils (3.55 mm), nominal.
   3. Exposed Horizontal Face Color: White
   4. Exposed Vertical Face Color: Tan

2.2 ROOF SHEET METAL FLASHING AND TRIM

A. See Section 07620 for roof flashing associated with a "Complete System."

2.3 AUXILIARY MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.

B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet membrane.

C. Bonding Adhesive: Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.

D. Metal Termination Bars: Manufacturer's standard pre drilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.

E. Metal Battens: Manufacturer's standard aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch (25 mm) wide by 0.05 inch (1.3 mm) thick, pre punched.

F. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

G. Miscellaneous Accessories: Provide pourable sealers, performed cone and vent sheet flashings, performed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, slip sheet, and other accessories.

2.4 ROOF INSULATION

A. Polyisocyanurate Board Insulation, see drawings for required thickness and R-Value: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces, must be approved by Duro-Last.

B. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches (1:48), unless otherwise indicated.

C. Provide performed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

2.5 INSULATION ACCESSORIES

A. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

B. Cold Fluid-Applied Adhesive: Manufacturer's standard cold fluid-applied adhesive formulated to adhere roof insulation to substrate.

C. Cover Board: ASTM C 208, Type II, Grade 2, cellulosic-fiber insulation board, 1/2 inch (13 mm) thick.

D. Cover Board: DOC PS 2, Exposure 1, oriented strand board, 7/16 inch (11 mm) thick.

E. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2 inch (13 mm) thick.

2.6 WALKWAYS AND PROTECTION PADS

A. Flexible Walkways: Extruded factory-formed pad from recycled roof membranes and oriented strand polyester reinforcement.
   1. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Accounts) "Roof Trak III"

PART III - EXECUTION

3.1 SUBSTRATE BOARD INSTALLATION

A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.

3.2 INSULATION INSTALLATION

A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.

B. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.

C. Install tapered insulation under area of roofing to conform to slopes indicated.

D. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
   1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof. Contact Duro-Last Engineering Services to determine fastening requirements.

E. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and fasten to roof deck.
   1. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

3.3 MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION

A. Install roofing membrane over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing membrane and allow to relax before installing.
   1. Install sheet according to ASTM D 5082.

B. Mechanically or adhesively fasten roofing membrane securely at terminations, penetrations, and perimeter of roofing. Contact Duro-Last Engineering Services to determine fastening requirements.

C. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to manufacturer's written instructions to ensure a watertight seam installation.
   1. Repair tears, voids, and lapped seams in roofing membrane that does not meet requirements.

D. In-Splice Attachment: Secure one edge of roofing membrane using fastening plates or metal battens centered within membrane splice and mechanically fasten roofing membrane to roof deck. Field-splice seam.

E. Through-Membrane Attachment: Secure roofing membrane using fastening plates or metal battens and mechanically fasten roofing membrane to roof deck. Cover battens and fasteners with a continuous cover strip.

3.4 BASE FLASHING INSTALLATION

A. Install sheet flashings and performed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.

B. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.

C. Flash penetrations and field-formed inside and outside corners with sheet flashing.

D. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. 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.

3.5 WALKWAY AND PROTECTION PAD INSTALLATION

A. Flexible Walkways: Install walkway products in locations indicated. Heat-weld (hot air) attachment skirts to roof membrane per manufacturer's written instructions.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test reports.

B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.

C. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.

END OF SECTION C07530

SECTION - C07600: FLEXIBLE AND SHEET METAL FLASHING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Elastomeric flashing for walls, doors and windows.

B. Metal flashings indicated on the drawngs.

C. Mechanical equipment support curb sheetmeal caps and flahsings.

D. Note: The owner preferences a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Under the condition that there is not a significant increase in price between the product options.

1.2 RELATED SECTIONS

A. Unit Masonry Assemblies: SECTION C04810

B. Thermoplastic Membrane Roofing: SECTION C07530

C. Sealants and Caulking: SECTION C07920

D. Roof Sheet metal Flashing and Trim: SECTION C7620

1.3 REFERENCES

A. Publications: Perform sheetmetal work in accord with recommendations in the latest edition of the Architectural Sheet Metal Manual, as published by the Sheet Metal and Air Conditioning National Contractor's Association.

1.4 GUARANTEE

A. In addition to the requirements specified, sheetmetal work shall be completely watertight. The Contractor shall furnish in writing guarantees providing for repairs to sheetmetal work at no additional cost to the Owner. Guarantee shall include repair of all leaks or defects in sheetmetal materials and workmanship appearing within two years of date of acceptance by the Owner.

PART II - PRODUCTS

2.1 FLEXIBLE (ELASTOMERIC) FLASHING

A. Elastomeric Flashing: Flashing and accessories for installation in cavity wall construction. Including but not limited to:
   1. Wall bases
   2. Heads of openings
   3. Window sills
   4. Shelf angles and lintels
   5. Wall discontinuities in the cavity

B. Provide a water proof EPDM membrane through-wall flashing integrated with the wall assembly's water resistive barrier and cavity drainage system. Provide a EPDM membrane flashing of 0.40 inch (40 mil) thickness consisting of cured, dimensional stable, non-reinforced with talc removed surfaces.

C. Provide accessories as required, including but not limited to:
   1. Splice tape, compound, primer and cleaner
   2. Bonding adhesives
   3. Lap sealants
   4. Corner patch
   5. Termination bar

2.2 SHEETMETAL FLASHING

A. Galvanized Sheetmetal: Zinc-coated steel ASTM A653, coated designation G-90, in thickness of 22 gauge 36-inch to 48" coil length.

B. Sheetmetal Minimum Gauges: Gauges are based on galvanized sheetmetal. Where other metal is used, use equivalent weights in tables from the Sheet Metal Manual.
   1. Hook Strips 22 ga
   2. Joint Covers 22 ga
   3. Special Flashing 22 ga
   4. Pitch Pans 24 ga
   5. Window Sill Flashing 22 ga

2.4 MISCELLANEOUS MATERIALS

A. Screws and Bolts: Galvanized, plated or non-ferrous metal.

B. Solder: Composition 40% lead and 60% tin for use with galvanized sheet.

C. Soldering Flux: Federal Specification O-F-506, Form A or B or equal commercial product as approved on the job.

D. Mastic: Flashing cement, equal ot BESTILE, Manville Products Coporation.

E. Bituminous Paint: ASTM C1187,NA-TAZ, Pure Asphalt Company, Chicago, IL or equal.

PART III - EXECUTION

3.1 ELASTOMERIC FLASHING INSTALLATION

A. General: Install as shown on the drawings and at all locations normally considered good practice. Trim cut flashings clean to provide a finished installation where no flashing surfaces are visible.

B. Wall Flashing: Install where shown on the drawings, 1/2-inch inward from outside face of wall and extend up and through wall as indicated, joints lapped 4 inches minimum with laps bedded in sealant.

C. Door and Window Flashing: Install at all sills and heads, whether or not shown on the drawings. Install 1/2-inch inward from outside face of wall and extend 6" on each side of opening, up and through wall as indicated. Dam ends of flashing to prevent water penetration at ends. Sheeting shall not be allowed to hang free prior to completion of wall finish, but shall be nailed to framing (behind sheathing) with nails and discs.

3.2 SHEETMETAL INSTALLATION

A. General:
   1. Dissimilar Materials Contact: Where sheetmetal is shown contacting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coating of bituminous paint applied to a thickness of 15 mils.
   2. Surfaces to which sheetmetal will be applied shall be true, smooth, clean, dry and free from defects which might lead to distortion of metal work. Install all sheetmetal work in accordance with approved standards in reference manual, and coordinate with work of other trades, particularly the roofing trade for proper sequence of flashing work.
   3. Proper and adequate provisions shall be made in fabrication, installing and fastening sheetmeal work for expansioin and construction of metal and other materials entering in the the work s that pulling, splitting, opening of joints, warpage or other failure of the work shall be prevented. Expansion joints in sheetmetal shall be placed not farther than 40 feet apart.

B. Underlayment: Install building paper under all sheetmetal covering over wood nailers or blocking. Lap joints two inches and nail at 16-inches on center, or secure with flashing cement.

C. Seams: Finish seams neatly with lines trimmed true and sharp. Number of joints shall be as few as is consistent with commercial sizes of materials.
   1. Flat seams, not less than 1/2-inch in width, shall be either single locked and sweated with solder, or double locked and malleted flat.
   2. Loose locked seams shall be single locked.
   3. Cross joints shall be loose locked and filled with elastomeric sealant.

D. Cleats: When applied as an exposed covering, fasten sheet metal to wood nailers with 2-inch by 3-inch cleats of same kind and weight of metal, spaced not over 12-inch center to center along hems, with one end of cleat turned into hem and opposite end secured with two fasteners and turned back over fasteners.

E. Soldering: Remove foreign materials and surface oxides prior to soldering, and solder as soon as possible after cleaning with degreasing solvents. Type of flux shall be compatible with solder used.

3.4 CLEAN-UP

A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C07600

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02859-A-905-SPECIFICATIONS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
07/19/2022

Chick-fil-A
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Atlanta, Georgia
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

DRAWN BY Author
DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-905

SECTION - C07620: ROOF SHEET METAL FLASHING AND TRIM

PART I - GENERAL

1.1 SECTION INCLUDES

A. Metal trims, coping, gutters, downspouts and accessories
B. Metal fascia panels
C. Metal soffit panels

1.2 RELATED SECTIONS

A. Thermoplatic Membrane Roofing: SECTION C07530
B. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 REFERENCES

A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc Aluminum Coated (Galvalume) Steel.
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
C. Dade County (Florida) Acceptance, Florida Product Approval (FBC)
D. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors National Association; Architectural Sheet Metal Manual 2006 6TH Edition.
E. IBC 2006/12 International Building Code
F. ES 1 compliant to meet with ANSI/SPRI
G. ASCE 7-10

1.4 SUBMITTALS

A. Submit under provisions of Section C01000
B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.
C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors and textures.
D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
G. Operation and Maintenance Data: Include methods for maintaining installed products and precautions relating to cleaning materials and methods that might be detrimental to finishes and performance.
H. Close Out: Warranty documents specified herein.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
1. Contact: Lindy Beuthin, Regional Sales Manger, (800) 248-0280, ext. 2110. Installer must be authorized.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.
B. Store materials protected from exposure to harmful conditions. Store material in a dry, above ground location.
1. Stack pre-finished material to prevent twisting, bending, and abrasion, scratching and denting. Elevate one end of each skid to allow for moisture to run off.
2. Prevent contact with material that may cause corrosion, discoloration or staining.
3. Do not expose to direct sunlight or extreme heat trim material with factory applied strippable film.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

A. Manufacturer's Warranty: Provide manufacturer's warranty, inclusive of all sheet metal, edge to edge as detailed in SECTION 07530 roofing section. The system shall be as provided by Duro-Last and made part of the edge to edge warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: Duro Last/Exceptional Metals, Saginaw, MI 48601 (See National Accounts)
B. Requests for substitutions will be considered in accordance with provisions of Section C01030.
C. Soffit Panels: Exceptional Metals Aluminum Soffit Panels; V-grooved.
1. Type: Smooth Surface
2. Type: 0.040 Aluminum
3. Style: Solid
4. Panel Width: 12 inches (305 mm), center to center.
5. Color: As indicated on the drawings
D. Trim: Manufacturer's standard trim profiles, factory formed; fabricated as recommended in SMACNA Architectural Sheet Metal Manual.
1. Material: 24 gauge, 0.024 inch (0.61 mm) ASTM A 653/A 653M Galvalume steel.
2. Material: 22 gauge, 0.03 inch (0.76 mm) ASTM A 653/A 653M Galvanized Grade 50 steel.
3. Material: 0.040 inch (0.1mm) aluminum, ASTM B 209 3105-H14 alloy.
4. Finish: KYNAR 500/HYLAR 5000 70% PVDF (Polyvinylidene fluoride) paint.
5. Color: As indicated on the drawings
E. Gutters and Downspouts: Manufacturer shall provide gutters and downspouts. Finish and color as indicated on the drawings.
6. Gutter shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel consisting of 70% PVDF coating.
7. Downspouts shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel, 70% PVDF coating. All seams for downspouts shall be Pittsburgh seamed not pop riveted, except at the elbows. Pop rivets shall be Stainless Steel and match in color.
F. Two Piece Compression perimeter edge metal:
1. Base leg attached to the perimeter shall consist of 22 gage steel cleat.
2. Compression Edge Metal shall consist of 0.040 Aluminum to match the color as indicated on drawings.
H. Coping Cap:
1. Coping Special design shall be as detailed in the drawings, providing 24 gage cleat, splice plates and coping base on 4-inch face.
I. Scupper Overflow and Through Wall with custom fit Receiver
1. Scupper Overflow: Metal Flange and 2 Skirt Scupper consisting of 24 gauge vinyl coated steel shall be shop fabricated by the manufacturer. The skirt shall be back sealed using the factory supplied mastic behind the flange.
2. Scupper and Collector: Through Wall Scupper and Collector shall be shop fabricated and sized by the manufacturer in one monolithic assembly. The top flange of the collector shall be back sealed and fastened at 6-inch centers. The Receiver/Collector Box shall match color, as indicated on the drawings. The Receiver/Collector shall be 24 gauge steel, Grade 50 steel and the scupper shall be made part of the specified warranty.
3. All Skirts for through wall and for overflow scupper shall be fabricated with White PVC.
J. Fascia Custom and Standard Fascia
1. Custom Fascia shall be of 0.040 aluminum.
2. Standard Fascia shall consist of 24 gauge steel. Use manufacturer provided cleats.

PART III - EXECUTION

3.1 EXAMINATION

A. Verify that substrates are acceptable for roofing installation in accordance with manufacturer's instructions.
B. Do not begin installation until substrates have been properly prepared.
C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

A. Install in accordance with manufacturer's written instructions.
B. Coordinate roofing with other work, including but not limited to drainage, flashing and trim, deck substrates, parapets, copings, walls, and other adjoining work.
C. Install roofing, patterns and drainage indicated, in accordance with manufacturer's instructions, and as necessary to achieve specified performance and a leak-free Installation. Allow for structural and thermal movement.
D. Separate dissimilar metals using bituminous coating to prevent galvanic action.
E. Provide uniform, neat seams; provide sealant-type joint where indicated and form joints to conceal sealant.

3.3 FIELD QUALITY CONTROL

A. Post Installation Testing: Owner reserves right to perform post installation testing of installed roofing.
B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions. Field Technician shall be a certified inspector employed by Duro-Last and not a member of the sales staff.

3.4 CLEANING

A. Remove temporary coverings and protection of adjacent work areas.
B. Touch-up, repair or replace damaged products.
C. Clean in accordance with manufacturer's instructions prior to Substantial Completion.
D. Remove construction debris from project site and legally dispose of debris.

3.5 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07620

SECTION - C07720: ROOFTOP SUPPORT SYSTEMS

PART I - GENERAL

1.1 SECTION INCLUDES

A. The work covered by this specification consists of furnishing all labor, equipment, materials and accessories, and performing all operations required for the correct installation of recycled rubber pipe supports for mechanical piping and elevated platform supports for refrigeration condensers.

1.2 QUALITY ASSURANCE

A. Rooftop Support Systems shall be manufactured under a strict quality control program assuring quality product delivered to the jobsite. Supports that are damaged shall not be installed.
B. Workmanship: All supports to be installed by a qualified contractor and installed in accordance with manufacturer's recommendations.
1. All work shall comply with all applicable federal, state, and local codes and laws having jurisdiction.
2. All work shall conform to accepted industry and trade standards for pipe support installations.

1.3 RELATED SECTIONS

A. Thermoplatic Membrane Roofing: SECTION C07530
B. Flexible and Sheetmetal Flashshing: SECTION C07600

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Pipe Supports:
1. Cooper B-Line, Inc., Highland, IL 62249, "DURA-BLOK"
B. Elevated Equipment Supports:
2. AVCOA Corporation, Fort Lauderdale, FL 33314

2.2 MATERIALS

A. Pipe Support: Curb base shall be made of 100% recycled rubber and polyurethane prepolymer with a uniform load capacity of 500 pounds per linear foot of support. In addition, each base to have a reflective yellow stripe.
1. Steel Frame: Steel, 14 gauge strut galvanized per ASTM A653 or 12 gauge strut galvanized per ASTM A653 for bridge series.
2. Attaching hardware: Zinc-plated threaded rod, nuts and attaching hardware per ASTM B633.
B. Equipment Support: Constructed of 6061-T6 Aluminum alloy. The support system shall consist of rectangular or circular tube legs, with rails (I-beams) and clips and plates. Engineered to withstand high velocity hurricane zone provisions. Wind loads shall be verified with local jurisdiction having authority. Verify minimum clear clear height required.

PART III - EXECUTION

3.1 INSTALLATION

A. Pipe Support:
1. Install in accordance with manufacturer's instructions.
2. Always consult roofing manufacturer for roof membrane compression capacities. If necessary, a compatible sheet of roofing material (rubber pad) may be installed under rooftop support to disperse concentrated loads and add further membrane protection.
3. Gas pipe spacing subject to local gas authorities.
4. Use properly sized clamps to suit pipe sizes.
B. Equipment Elevated Support:
1. Install 2 rails 5 feet each and 2 rails 7 feet with three supports each rail (center middle leg), 5 feet rails to be 31-inches apart at cooler/freezer condensers and 7feet rails to be 27-inches apart at ice machine condensers. Stands shall provide 18-inch minimum clearance and shall be sized and installed according to the manufacturer's load charts and printed installation details.

END OF SECTION C07720

SECTION - C07740: ROOF HATCHES

PART I - GENERAL

1.1 SECTION INCLUDES

A. Furnish labor, materials, services, equipment and appliances required for roof hatch work only when indicated on the Drawings and specified herein.

1.2 RELATED SECTIONS

A. Aluminum Ladders: SECTION C05514
B. Thermoplatic Membrane Roofing: SECTION C07530
C. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 WARRANTY

A. Manufacturer's Standard Warranty: Materials shall be free of defects in material and workmanship for a period of five (5) years from the date of purchase.

1.4 SUBSTITUTIONS

A. Substitutions shall be considered in accordance with provisions of Section C01030.

PART II - PRODUCTS

2.1 MANUFACTURER

A. Bilco Company, New Haven, CT 06505

2.2 ROOF HATCHES

A. Type "S-50-TB"; completely assembled:
1. Curbs: Shall be 12" (305mm) in height and of 11 gauge (2.3mm) aluminum. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. The curb shall be formed with a 5-1/2" (140mm) flange with 7/16" (11mm) holes provided for securing to the roof deck. The curb shall be equipped with an integral metal capflashing of the same gauge and material as the curb, fully welded at the corners, that features the Bil-Clip® flashing system, including stamped tabs, 6" (153mm) on center, to be bent inward to hold single ply roofing membrane securely in place.
2. Curb Insulation:Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K).
3. Covers: Shall be 11 gauge (2.3mm) aluminum with a 5" (127mm) beaded flange with formed reinforcing members. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. Cover shall have a heavy extruded EPDM rubber gasket bonded to the cover interior to assure a continuous seal when compressed to the top surface of the curb.
4. Cover Insulation: Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K), fully covered and protected by an 18 gauge (1mm) aluminum liner.
4. Lifting Mechanisms: Manufacturer shall provide compression spring operators enclosed in telescopic tubes to provide, smooth, easy, and controlled cover operation throughout the entire arc of opening and closing. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly. The lower tube shall interlock with a flanged support shoe welded to the curb assembly.
6. Hardware:
1.Heavy stainless steel pintle hinges shall be provided
2.Cover shall be equipped with a spring latch with interior and exterior turn handles
3.Roof hatch shall be equipped with interior and exterior padlock hasps.
4.The latch strike shall be a stamped component bolted to the curb assembly.
5.Cover shall automatically lock in the open position with a rigid hold open arm equipped with a 1" (25mm) diameter red vinyl grip handle to permit easy release for closing.
6.Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. [For installation in highly corrosive environments or when prolonged exposure to hot water or steam is anticipated, specify Type 316 stainless steel hardware].
7.Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.
7. Finishes: Factory finish shall be mill finish aluminum.

2.3 FABRICATION

A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

PART III - EXECUTION

3.1 PROTECTION

A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

3.2 INSTALLATION

A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

END OF SECTION C07740

SECTION - C07920: SEALANTS AND CAULKING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Exterior sealing; waterproofing and visual requirements.
B. Interior sealing; painting requirements.
C. Interior mildew-resistant sealant.
D. Fire-resistant joint sealant.
E. Preparing sealant substrate surfaces.
F. Sealant and backing.

1.2 RELATED SECTIONS

A. Concrete Footing/Slab-on-Grade: SECTION C03300
B. Unit Masonry Assemblies: SECTION 04810
C. Finish Carpentry: SECTION C062000
D. Flexible and Sheet Metal Flashing: SECTION C07600
E. Roof Sheet Metal Flashing and Trim: SECTION C07620
F. Aluminum-Framed Entrances and Storefronts: SECTION C08411
G. Pass-Thru Windows: SECTION C08580
H. Gypsum Board: SECTION C09250
I. Reinforced Wall Coverings: SECTION C097700
J. Painting: SECTION C09910
K. Millwork, Cabinetry and Countertops: SECTION C12390

1.3 INTENT

A. Requirements of this Section controls the type and quality of sealing work. Unless specifically directed otherwise in other Sections and/or on the Drawings these Technical Sections shall take precedence.
B. Provide sealant required to close joints that would allow moisture or air to enter structure between fixed materials as shown on the drawings and as herein specified including but not limited to:
1. Sealing of interior perimeter joints of window framing, door frames, and other wall openings.
2. Setting of thresholds in sealant.
3. Sealing of joints between countertops and wall surfaces for a sanitary joint.
4. Sealing of joints of every nature and description that would allow moisture or air penetration.
5. Sealing of joints indicated to be caulked or sealed whether specifically mentioned herein or not.
6. Sealing around all pipe, duct and vent penetrations.

PART II - PRODUCTS

2.1 MANUFACTURER

A. The Drawings were prepared & written on the basis of using the products pre-approved by the Owner. Such is intended to establish minimum quality and LEED standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Section C01030. The use of sealants with low VOC's is preferred.

2.2 SEALANT MATERIALS

A. Exterior Sealant: Compound used at masonry joints.
1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
2. Color: Match brick mortar
B. Exterior Sealant: Compound used at exterior sidewalks and exposed concrete areas.
1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
2. Color: Match exposed concrete
C. Interior Sealant: Compound used throughout job in dining, kitchen, restrooms, etc:
1. Dow Corning 790, one-part neutral-cure silicone sealant.
2. Color: Clear
D. Fire-Resistant Joint Sealant: (as required by building codes or authorities)
One part fire-stopping sealant system formulated for use in through-penetration sealing of openings, cables, conduit, pipes, and penetrations through walls and floors.
1. 3M Fire Barrier Sealant CP-25WB+ by International Products Division, 3M Company.
E. Kitchen Exhaust Hoods to Stainless Steel Wall Panels:
1. 3M "Fire Barrier" 2000
2. International Protective Coatings "Flamesafe" FS 1900.

2.3 ACCESSORIES

A. Primer: Non-staining type, recommended by sealant manufacturer, to suit application.
B. Joint Cleaner: Non-corrosive and non-staining; recommended by sealant manufacturer; compatible with joint forming materials.
C. Joint Backing: Where required, non-absorbent and non-staining foam rod, compatible with sealant used. Diameter required to form friction surface at sides of open joint.
D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
E. Masking Tape: FS UU-T-106.

PART III - EXECUTION

3.1 GENERAL

A. Do not use interior sealant for exterior conditions. Gun apply compound with nozzle of proper size to fit width of joint indicated; force sealant into joint with sufficient pressure to expel air and fill groove solidly.

3.2 INSPECTION

A. Verify that surfaces and joint openings are ready to receive work and field measurements are as shown on Drawings and recommended by sealant manufacturer. Beginning of installation means installer accepts existing conditions as appropriate for work.

3.3 CONDITIONS

A. Exterior: Apply sealants when temperature is between 40 and 100 degrees F.
B. Interior: Do not install solvent curing sealants in enclosed building spaces. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

3.4 PREPARATION

A. Perform in accord with ASTM C804 for solvent release and C790 for latex base sealants. Remove lose materials and foreign matter which might impair adhesion of sealant. Clean and prime joints in accord with manufacturer's instructions. Verify that joint backing and release tapes are compatible with sealant. Protect elements surrounding work of this Section from damage or disfiguration.

3.5 INSTALLATION

A. General: Conform to SWI requirements for installation and with manufacturer's instructions. Measure joint dimensions and size materials to achieve required width/depth ratios.
B. Joint Backing: Install to achieve neck dimension no greater than 1/3 joint width.
C. Bond Breaker: Install where joint backing is not used.
D. Masking Tape: Place on finish surface on one or both sides of joint cavity to protect adjacent finish surfaces from compound smears. Remove within 10 minutes after joint has been filled and tooled.
E. Primer: Use in accord with manufacturer's instructions. Test for staining on samples of actual surfaces to be sealed prior to application.

3.6 FINISHING

A. Tool joints slightly concave unless shown otherwise on the Drawings. When tooling white or light color sealant, use dry or water wet tool.

3.7 CLEANING AND REPAIRING

A. Remove masking tapes and clean adjacent soiled surfaces. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.8 PROTECTION OF COMPLETED WORK

A. Protect sealants until cured.

END OF SECTION C07920

DIVISION 8 - DOORS AND WINDOWS

SECTION - C08110: STANDARD STEEL DOORS AND FRAMES

PART I - GENERAL

1.1 SUMMARY

A. All doors and frames in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account list.
B. Section Includes:
1. Pressed steel hollow metal doors and frames.
2. Hollow metal frames for Plastic Laminate doors.
3. Metal louvers in hollow metal doors.
4. Hollow metal frame reinforcing, door reinforcing, door inslulation, closer reinforcements, clips angles and anchorage.
5. Factory prime paint finish.

1.2 RELATED SECTIONS

A. Unit Masonry Assemblies (Grout): Section C04810
B. Plastic Laminate Faced Doors: SECTION C08210
C. Finish Door Hardware: SECTION C08710
D. Glazing: SECTION C08800
E. Painting: SECTION C09910

1.3 QUALITY ASSURANCE

A. Applicable Standards: Specifications and standards of SDI 100-98.
B. Wind Load Performance Requirements: All exterior doors and frames must meet design pressure provided by the Architect/Engineer for this project.
C. Supplier Qualification: Qualified direct distributor of products to be furnished. The distributor shall have in their regular employment an A.H.C./C.D.C. or person of equivalent experience who will be available at reasonable times to consult with the Architect, Contractor and/or Owner regarding any matters affecting the total door and frame openings.
D. Installer Qualification: Experience with installation of similiar materials.

1.3 SUBMITTALS

A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each type of steel door and frame specified.
B. Product test reports.
C. Shop Drawings: Provide a schedule of standard steel doors and frames using same reference numbers for details and openings as those on the drawings.

1.4 PRODUCT HANDLING

A. Deliver hollow metal doors in manufacturer's protective covering. Handle hollow metal with care to prevent damage.
B. Door Storage: Store doors in upright position, under cover. Place doors on 4-inch minimum high wood sills or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. If corrugated wrapper on door becomes wet, or moisture appears, remove wrapping immediately. Provide 1/4-inch space between doors to promote aire circulation.
C. Frame Storage: Store frames under cover on 4-inch minimum wood sills or on floors in manner that will prevent rust and damage. Don not use non-vented plastic or convas shelters which create humidity chamber and promote rusting. Store assembled frames in vertical position, 5 units maximum in stack. Provide 1/4-inch space between frames to promote air circulation.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
Locknet,
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeffl Kirkner (856) 887-9119 ext. 131

2.2 HOLLOW METAL

A. Acceptable Manufactures:
1. Steelcraft an Ingersoll-Rand Company, "L-Series"
2. Amweld Building Products, Inc.
3. Ceco Door Products; an ASSA ABLOY Group Company
B. Cold-Rolled Steel Sheet: Commercial quality, streatcher leveled flatness, cold-rolled steel, free from scale, pitting or other surface defects, compying with ASTM A366 and A568 gernerel requirements.
C. Galvanealed Steel Sheets: ASTM A924, A60 zinc coating. Use galvenealed steel sheets for exterior hollow metal doors, door frames and door louvers. Internal reinforcing may be manufactured of hot rolled pickled and oiled steel per ASTM-A569.
D. Coating materials, primer: Use manufacture's standard rust inhibiting primer conforming to ANSI-A224.1-1990.

2.3 RELATED MATERIALS

A. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A 153/A 153M, Class B.
B. Inserts, Bolts and Anchors: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M/
C. 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 standard steel door frames of typ indicated.
D. Bituminous Coating: cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.4 STANDARD STEEL DOORS

A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces. Comply with ANSI A250.8.
1. Core Construction: Manufacturer's standard polystyrene core that produces doors complying with ANSI A250.8.
2. Vertical Edges for Single-Acting Doors: Beveled edge.
a. Beveled Edge: 1/8 inch in 2 inches (3 mm in 50 mm).
3. Top and Bottom Edges: Closed with flush or inverted 0.042-inch- (1.0-mm-) thick end closures or channels of same material as face sheets.
B. Exterior Doors: Face sheets fabricated from metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
1. Level 3 and Physical Performance Level A (Extra Heavy Duty), Model 2 (Seamless).
C. Interior Doors: Face sheets fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior door requirements. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
1. Level 2 and Physical Performance Level B (Heavy Duty), Model 2 (Seamless).

2.5 STANDARD STEEL FRAMES

A. General: Comply with ANSI A250.8 and with details indicated for type and profile.
B. Exterior Frames: Fabricated from metallic-coated steel sheet.
1. Frames for Level 3 Steel Doors: 14 GA. steel sheet.
C. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.
1. Frames for Level 2 Steel Doors: 16 GA. steel sheet.
2. Frames for Laminate Doors: 0.053-inch (1.3 mm) thick steel sheet.
D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic coated steel sheet.
E. Jamb Anchors: Masonry, stud-wall, compression, or postinstalled expansion type; not less than 0.042 inch (1.0 mm) thick.
F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch (1.0 mm) thick.
G. Plaster Guards: Formed from same material as frames, not less than 0.016-inch (0.4-mm) thick.

2.6 FABRICATION

A. General: Fabricate standard steel doors and frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment. Reinforce as required to support loads imposed by door operation and for installing hardware.
B. Standard Steel Doors:
1. Exterior Doors: Provide weep-hole openings in bottom of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.
2. Glazed Lites: Factory cut openings in doors.
C. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and inveisble.
2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.
3. Plaster Guards: Weld guards to frame at back of hardware mortises in frames installed in concrete or masonry.
4. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
5. Jamb Anchors: Locate anchors not more than 18 inches (457 mm) from top and bottom of frame. Space anchors not more than 32 inches (813 mm) o.c.
6. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction.
D. Hardware Preparation: Factory prepare standard steel doors and frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule and templates furnished as specified on the drawings.
1. Comply with applicable requirements in ANSI A250.6 and ANSI/DHI A115 Series specifications for door and frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.
E. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
1. Provide fixed stops and moldings welded on secure side of door or frame.
2. Provide loose stops and moldings on inside of doors and frames.

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7/12/2022 2:51:39 PM
02859-A-906-SPECIFICATIONS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

HFA Creative Solutions Meaningful Places
HARRISON FRENCH & ASSOCIATES, LTD
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STATE OF MISSOURI
STEVEN L. BAKER
NUMBER A-2022000460
REGISTERED ARCHITECT
Digitally signed by Steven Louis Baker
DN: cn=Steven Louis Baker, o=Harrison French and Associates, l=Bentonville, s=ARKANSAS, c=US
Date: 2022.07.13 15:26:05-05'00'
STEVEN L.BAKER A-2022000460
HARRISON FRENCH & ASSOCIATES, LTD
A-2005011993-F

CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859
BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET SPECIFICATIONS
SHEET NUMBER A-906

2.7 FINISHES

A. Steel Finish: Factory priming for field-painted finish.

1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria.

PART III - EXECUTION

3.1 INSTALLATION

A. Remove welded-in shipping spreaders installed at factory.

B. Provide doors and frames of sizes, thicknesses, and designs indicated. Install standard steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

C. Standard Steel Frames: Install standard steel frames for doors and other openings, of size and profile indicated. Comply with SDI 105.

1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.

a. At fire-protection-rated openings, install frames according to NFPA 80.

b. Apply bituminous coating to backs of frames that are filled with mortar, grout, and plaster containing antifreezing agents.

2. Metal-Stud Partitions: Solidly pack mineral-fiber insulation behind frames.

3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar as specified in Unit Masonry Assemblies.

4.. Concrete Walls: Solidly fill space between frames and concrete with grout. Install grout in lifts and take precautions, including bracing frames, to ensure that frames are not deformed or damaged by grout forces.

D. Standard Steel Doors: Fit hollow-metal doors accurately in frames. Shim as necessary.

1. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

E. Glazing: Comply with installation requirements and with standard steel door and frame manufacturer's written instructions.

F. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including standard steel doors or frames that are warped, bowed, or otherwise unacceptable.

G. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.

END OF SECTION C08110

SECTION C08210: PLASTIC LAMINATE FACED DOORS

PART I - GENERAL

1.1 SUMMARY

A. All doors in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account List.

B. Sections Includes:

1. Plastic Laminated Faced Doors

1.2 RELATED SECTIONS

A. Hollow Metal Doors and Frames: SECTION C08110

B. Finish Door Hardware: SECTION C08710

1.3 REFERENCES

A. AWI P-200 - Architectural Woodwork Quality Standards Illustrated; 1997, Seventh Edition, Version 1.0.

B. WDMA NWWDA I.S.1-A - Architectural Wood Flush Doors; 1997.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Shop Drawings: Door and frame schedule.

C. Specimen Warranty.

1.5 WARRANTY

A. Provide manufacturer's written warranty that doors will be free of defects for the period specified under normal use. Adhere to manufacturer's requirements to avoid voiding warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. PLASTIC LAMINATE FACED DOOR SUPPLIER CONTACT INFORMATION:
Locknet,
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 MATERIALS

A. Non-Fire-Rated Solid Core Doors: Flush wood doors faced with NEMA LD 3, Grade HGS (0.050-inch thick) high pressure plastic laminate.

1. Type: Particleboard core type, complying with AWI Type PC-HPDL-3 and WDMA NWWDA I.S.1-A; with average 30 pcf (480 kg/cu m) density core complying with ANSI A208.1 Grade LD-1.

a. Crossbanding: 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.

b. Face Backer: 1/10 inch (2.5 mm) thick hardboard face backer.

2. Facing Color: See drawings.

3. Edge Banding: Matching laminate.

4. Total Thickness: 1-3/4 inches (44 mm).

5. Core Edges: Structural composite lumber.

6. Stiles and Rails: Solid hardwood lumber.

7. Stile Width: 1-3/8 inches (35 mm) before trimming.

8. Top Rail Height: 1-3/8 inches (35 mm) before trimming.

9. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.

10. Adhesive: Type I, waterproof & urea-free.

2.3 FABRICATION

A. Doors: Factory fit doors to suit frame-opening sizes indicated, with the following uniform clearances and bevels, unless otherwise indicated.

1. Comply with clearance requirement standards for non rated door fitting.

2. Factory machine doors for hardware that is not surface applied.

B. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining.

2.4 QUALITY CONTROL

A. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch from true plane in any 3 inch span.

B. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch in any 42 inches wide by 84 inches high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch thick that are over 36 inches wide or 84 inches high and doors with cutouts exceeding manufacturer's specified limits.

PART III - EXECUTION

3.1 PREPARATION

A. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.

3.2 INSTALLATION

A. Install all materials in strict accordance with the manufacturer's installation instruction with doors in frame plumb and true, without rack, and so doors do not fall open or closed simply due to gravity.

1. Install door frames with specified.

2. Install door hardware as specified.

3.3 FIELD QUALITY CONTROL

A. Installation Tolerances: Install non fire-rated doors with not more than 1/8-inch clearance at top and sides, 1/4-inch at bottom.

3.4 ADJUSTING, CLEANING AND PROTECTION

A. Operation: Adjust door and frame for free operation without binding, rack, or warp. Re-hand or replace doors that do not swing or operate freely.

B. Clean and remove dust and other foreign matter from panel and framing surfaces. Clean finishes in accordance with manufacturer's instructions.

C. Project installed doors until completion of project.

END OF SECTION C08210

SECTION - C08320: FRP FLUSH DOORS

PART I - GENERAL

1.1 SECTION INCLUDES

A. Fiberglass reinforced polyester (FRP) flush doors with aluminum frames.

1.2 RELATED SECTIONS

A. Standard Steel Door and Frames: SECTION C08110

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.

B. Air Infiltration: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.24 psf. Door shall not exceed 0.90 cfm per linear foot of perimeter crack.

C. Water Resistance: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 331 at pressure differential of 7.50 psf. Door shall not have water leakage.

D. Thermal Transmission, Exterior Doors, U-Value, AAMA 1503-98: Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value.

E. Surface Burning Characteristics, FRP Doors and Panels. ASTM E 84:

11. Flame Spread: Maximum of 200, Class C.

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.

1.5 WARRANTY

A. Warrant doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.

B. Warranty Period: Ten years starting on date of shipment. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART II - PRODUCTS

2.1 MANUFACTURER

A. Special-Lite, Inc., Decatur, Michigan 49045.

2.2 FRP FLUSH DOORS

A. Model: SL-17 Flush Doors with SpecLite3 fiberglass reinforced polyester (FRP) face sheets.

B. Construction:

1. Door Thickness: 1-3/4 inches.

2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial process, minimum of 2-5/16-inch depth.

3. Corners: Mitered.

4 Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom integral to standard tubular shaped stiles and rails reinforced to accept hardware as specified.

5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.

6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.

7. Rail caps or other face sheet capture methods are not acceptable.

8. Extrude top and bottom rail legs for interlocking continuous weather bar.

9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.

10. Bottom of Door: Install bottom weather bar with nylon brush weatherstripping into extruded interlocking edge of bottom rail.

11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.

C. Face Sheet:

1. Material: SpecLite3 FRP, 0.120-inch thickness, finish color throughout.

2. Protective Coating: Abuse-resistant engineered surface. Provide FRP with SpecLite3 protective coating, or equal.

3. Texture: Pebble.

4. Adhesion: The use of glue to bond face sheet to foam core is prohibited.

D. Core:

1. Material: Poured-in-place polyurethane foam.

2. Density: Minimum of 5 pounds per cubic foot.

3. R-Value: Minimum of 9.

E. Cutouts:

1. Factory install vision lites, louvers, and panels.

F. Hardware:

1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule. No exceptions will be allowed.

2.3 MATERIALS

A. Aluminum Members:

1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: ASTM B 221.

2. Sheet and Plate: ASTM B 209.

3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.

B. Components: Door and frame components from same manufacturer.

C. Fasteners:

1. Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.

2. Compatibility: Compatible with items to be fastened.

3. Exposed Fasteners: Screws with finish matching items to be fastened.

2.4 ALUMINUM DOOR FRAMING SYSTEMS

A. Tubular Framing:

1. Size and Type: As indicated on the Drawings.

2. Materials: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, 1/8-inch minimum wall thickness.

3. Applied Door Stops: 0.625-inch high, with screws and weatherstripping. Door stop shall incorporate pressure gasketing for weather seal. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head.

4. Frame Members: Box type with 4 enclosed sides. Open-back framing in not acceptable.

5. Caulking: Caulk joints before assembling frame members.

6. Joints:

a. Secure joints with fasteners.

b. Provide hairline butt joint appearance.

7. Field Fabrication: Field fabrication of framing using stick material is not acceptable.

8. Applied Stops: For side, transom, and borrowed lites and panels. Applied stops shall incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for frame hardware attachments.

9. Hardware:

a. Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.

10 Anchors:
.

a. Anchors appropriate for wall conditions to anchor framing to wall materials.

b. Door Jamb and Header Mounting Holes: Maximum of 24-inch centers.

c. Secure head and sill members of transom, side lites, and similar conditions.

B. Frame Capping:

1. Model: SL-70.

2. Capping: With insert frame as indicated on the Drawings.

3. Finish: Match framing.

2.5 HARDWARE

A. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.

2.6 VISION LITES

A. Factory Glazing: 1/4-inch glass

B. Lites in Exterior Doors: Allow for thermal expansion.

2.7 ALUMINUM FINISHES

A. Anodized Finish: Class I finish, 0.7 mils thick. See Drawings for finish.

PART III - EXECUTION

3.1 INSTALLATION

A. Install doors in accordance with manufacturer's instructions.

B. Install doors plumb, level, square, true to line, and without warp or rack.

C. Anchor frames securely in place.

D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.

END OF SECTION C08320

SECTION - C08306: ACCESS PANELS

PART I - GENERAL

1.1 SECTION INCLUDES

A. Flush mounted access panels.

1.2 RELATED SECTIONS

A. Metal Fabrications: SECTION C05500

B. Gypsum Board Systems: SECTION C09250

C. Rough Carpentry: SECTION C06000

D. Painting: SECTION C09910

PART II - PRODUCTS

2.1 MANUFACTURER

A. Interior Access Panels:

1. Larsen Manufacturing Co, Minneapolis, MN 55432

2. MIFBA, Chicago, IL 60643

3. Substitutions are allowed as described in SECTION C01030

B. Exterior Access Panels:

1. JL Industries, Bloomington, MN 55435

2.2 ACCESS PANELS

A. Interior: Access panels shall meet or exceed the following:

1. Size: 16 x 16 or as indicated on the drawings

2. Material:

a. Door: 14 gage galvanized steel, minimum

b. Frame: 16 gage steel, minimum

2. Hardware:

a. Hinges: Concealed.

b. Locks: Flush screw driver operated steel cam.

3. Anchors: Manufacturer's standard for use intended.

4. Finish: Phosphate dipped steel with factory prime coat.

B. Exterior: Model XPA weather resistant flush access panel

1. Material:

a. Door: 2-inch thick insulated .040 aluminum

b. Insulation: Fiberglass

c. Frame: 16 gauge galvanized steel frame with 1-inch hinge

2. Hardware:

a. Hinge: Continuous stainless steel piano hinge

3. Handle: Provide (2) non-locking (H) die-cast zinc handles with chrome plating

4. Gasket: EPDM foam rubber bulb seal

5. Anchors: Manufacturer's standard for use intended.

6. Powdercoat Finish: Bronze (B)

7. Provide spring chain to prevent door swinging more than 110 degrees.

PART III - EXECUTION

3.1 INSTALLATION

A. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

3.2 CLEAN-UP

A. Upon completion of work of this Section, remove all debris relating to the conduct of this portion of the work from the premises.

END OF SECTION C08306

SECTION - C08344: TRAFFIC DOORS

PART I - GENERAL

1.1 SUMMARY

A. Light to medium duty traffic doors.

1.2 SUBMITTALS

A. Submit under provisions of SECTION C01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

2. Preparation instructions and recommendations.

3. Storage and handling requirements and recommendations.

4. Installation methods.

5. Operation and maintenance data.

1.3 WARRANTY

A. Provide manufacturer's standard two-year warranty that products are free of defects in material and workmanship and guaranteeing to replace (exclusive of freight and labor) parts proven defective within two years after date of shipment purchaser.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Eliason Corporation, Kalamazoo, MI 49003, (800) 828-3655.

B. Substitutions: Not permitted.

2.2 TRAFFIC DOORS

A. Personnel Doors: 3/4-inch exterior grade solid wood core; 1-inch total thickness; light to medium duty.

1. Facing: Full length stainless steel panels. (Model SCP-3)

a. Full Length Panels: 18 gauge stainless steel both sides; stainless steel top hinge covers.

2. Window Size: 10-inch diameter.

3. Window Molding: Black rubber molding.

4. Glazing: Clear acrylic.

5. Provide jamb guards and base plates as specified in Accessories below.

2.3 HARDWARE AND ACCESSORIES

A. Hinges: Double Action Easy Swing proprietary hinges.

1. Finish: Stainless steel.

B. Jamb Guards: Use in high impact traffic areas to protect the door jamb and bottom pin. Installed at bottom edges of corners.

1. Finish: Stainless steel.

2. Size: 3-inches (76 mm) wide by 9-inches (229 mm) high.

PART III - EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. Verify jambs plumb and square.

3.2 PREPARATION

A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with the manufacturer's instructions.

B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Fit and align door assembly including hardware.

D. Adjust door assembly to smooth operation and in full contact with weatherstripping.

END OF SECTION C08344

SECTION C08411: ALUMINUM-FRAMED ENTRANCES & STOREFRONTS

PART I - GENERAL

1.1 SUMMARY

A. Section Includes: Aluminum Storefront, including:

1. Aluminum storefront with thermally broken frame.

2. Aluminum storefront with non-thermally broken frame for interior applications.

3. Aluminum Entrance System

B. Related Sections:

1. Sealants and Caulks: SECTION C07920

2. Finish Door Hardware: SECTION C08710

3. Glazing: SECTION C08800

C. Note: The owner's preference is for a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Contractor to submit options.

1.2 SYSTEM PERFORMANCE DESCRIPTION

A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.

1. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:

a. Exterior Walls:

b. Positive Pressure: Refer to project specific requirements

c. Negative Pressure: Refer to project specific requirements

4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.

a. Without Horizontals: L/175 maximum.

b. With Horizontals: L/175 or L/240 + 1/4-inch (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).

5. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.

6. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT² (1.10 $m^3/h \cdot m^2$) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).

7. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 10 PSF (479 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.

8. Thermal Performance: When tested in accordance with AAMA 507, AAMA 1502 and NFRC 100:

a. Condensation Resistance Factor (CRFf): A minimum of 60.

b. Complete System Thermal Transmittance U Value: 0.50 BTU/HR/FT²/°F or less.

9. Acoustical Performance: When tested in accordance with AAMA 1801:

a. Sound Transmission Class (STC) shall not be less than 35.

b. Outdoor-Indoor Transmission Class (OITC) shall not be less than 29.

1.3 SUBMITTALS

A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."

B. Closeout Submittals:

1. Warranty: Submit warranty documents specified herein.

2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

1.4 WARRANTY

A Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's one (1) year standard warranty commencing on the Substantial date of Completion.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:

1. YKK AP America Inc. (National Account)

2. Kawneer North America. (National Account)

3. Substitutions will not be accpeted.

B. Storefront Framing System: Exterior Applications

1. Storefront System:

a. YKK AP YES / YES 45 TU Center Set Storefront System

b. Kawneer Trifab VG 451T Framing System

2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.

3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.

4. Thermal Barriers:

a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.

b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

C. Storefront Framing System: Interior Applications

1. Storefront System:

a. YKK AP YES / YES 45 TU Center Set Storefront System

b. Kawneer Trifab VG 451T Framing System

2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.

3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.

4. Thermal Barriers:

a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.

b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

D. Entrance System:

1. YKK AP Series 20D Narrow Stile

2. Kawneer Insulpour 250T Narrow Stile

2.2 MATERIALS

A. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), 6063-T6 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050-inch (1.27 mm) minimum thickness.

2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080-inch (1.95 mm) minimum thickness.

2.3 ACCESSORIES

A. Manufacturer's Standard Accessories:

1. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum framing members, trim hardware, anchors, and other components

2. Glazing: As secified in Division 08, Section "Glazing".

3. Glazing Gaskets: Glazing gaskets in accordance with ASTM C864.

4. Spacers and Setting Blocks: Setting blocks, edge blocks, and spacers in accordance with ASTM C864, shore durometer hardness as recommended by manufacturer

5. Flashing: 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.

6. Provide rubber safety gasket in Playground along sills and up full height along sides.

B. Refer to drawings for door hardware requirements.

2.4 FINISHES AND COLORS

A. Colors by Manufacturer

1. YKK - YB5N Dark Bronze Anodized Plus

2. Kawneer - #40 Dark Bronze

3. Verify finish color with drawings.

B. Anodized Finishing by Manufacturer

1. Anodic Coating: Electrolytic color coating shall be a minimum of .7 mils.

C. Top Coat by Manufacturer

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions.

1. The latest YKK installation manual is available at www.ykkap.com

2. The latest Kawneer installation manual is available at www.kawneer.com

3.2 INSTALLATION

A. General: Install system in accordance with manufacturer's published instructions, shop drawings, and within specified tolerances.

B. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.

3.3 ADJUSTING AND CLEANING

A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.

B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.

END OF SECTION C08411

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

HFA Creative Solutions Meaningful Places
HARRISON FRENCH & ASSOCIATES, LTD
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1705 S. Walton Blvd., Suite 3
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859

DATE 05/20/2022

DRAWN BY Author DESIGNED BY Designer

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SHEET SPECIFICATIONS

SHEET NUMBER **A-907**

BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO\02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:51:49 PM
02859-A-907-SPECIFICATIONS

SECTION - C08580: PASS-THRU WINDOWS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Aluminum automatic pass-thru service windows.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Sealants and Caulks: SECTION C07920
C. Glazing: SECTION C08800
Electrical Division 16 - See Electrical Drawings

1.3 REFERENCES
A. American Architectural Manufacturer's Association (AAMA):
1. ANSI/AAMA 101: Voluntary Specs. for Aluminum & Poly Vinyl Chloride Prime Windows & Glass Doors
B. American National Standards Institute (ANSI):
1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Safety Performance Specs & Methods of Test

1.4 SYSTEM OF DESCRIPTION
A. Performance Requirements: Provide automatic aluminum windows which have been manufactured, fabricated, and installed to maintain performance criteria by manufacturer without defects, damage, or failure.

1.5 SUBMITTALS
A. Product Data: Submit manufacturer's product data and standard details for automatic and manual windows for project closeout.
B. Quality Assurance Submittals and Closeout Submittals: Submit the following:
1. Manufacturer's Installation instructions and Operation and Maintenance Data.
2. Warranty document as specified herein.

1.6 WARRANTIES
A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document. Manufacturer's warranty is in addition to, and not a limitation of, other rights owner may have under the Contract Documents.
1. Warranty Period: One year warranty shall be provided commencing on Date of Substantial Completion.
C. Distributor's Warranty: The installing distributor shall provide one-year warranty covering the labor and transportation charges for defective parts replacement.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Quickserv Corp, Houston, TX 40466 (See National Accounts). No substitutions.
1. Model BP-7241E (Bi-Parting Horizontal Sliding Windows Unit):
a. Service Opening: 29-1/2 inches (w) x 32 inches (h)
b. Rough Opening: 72-1/2 inches (w) x 41-1/2 inches (h)
c. Operation Sensor
1. Thru-Beam Horizontal Eye Bar
2. Push Button
d. Glazing: 5/8-inch laminated
e. Finish: As indicated on the drawings
f. Meets Performance Requirements of CMSBO, Section 15 50 100, Texts CAWM 301-90, Forced Entry Resistance Test for Windows, and ASTM F588.
g. Hook Lock: Adam's Rite

2.2 EQUIPMENT
A. Window Unit Components:
1. Header: Aluminum, 4 inch deep by 6 inch high with removable face plate.
2. Track: Aluminum, 1/4 inch wide, nylon covered, replaceable.
3. Rollers: Steel, high quality ball bearing wheels 1-1/4 inch in diameter.
4. Sliding panel(s) and fixed panel(s): Aluminum and glass.
5. Concealed guides: To stabilize bottom of sliding panel.
6. Anti-derailing means: A continuous aluminum extrusion full length of travel slide panel.
7. Mohair weather-strip: On all strike rails as well as on adjoining vertical rails.
8. Jambs: Aluminum, 1-3/4 inch by 4 inch.
9. Glass: Thickness and glazing as per unit type.
10. Hardware:
a. Manual Locks: Single slide units equipped with Adams Rite® maximum security MS1850 lock, 1-5/32 inch cylinder, 6410 standard thumbturn and keeper.
B. Operator Components/Features for Automatic Units:
1. 1/2 inch threadless shaft constructed of induction hardened steel.
2. Linear travel block utilizing six aircraft quality ball bearings with integral clutch and rod lubrication.
3. 1/8 HP DC permanent magnet motor, 1800 RPM
4. Electronic control module.
5. Fully and independently adjustable open seed and close check
6. Adjustable time delay from 1 to 20 seconds
7. Adjustable reversing circuit enabling operator to reopen window unit if closing path is obstructed.
8. Circuit breaker (.5 Amp) for current overload protection.

2.3 GLASS AND GLAZING
A. General: Glass and glazing provided by manufacturer in thickness and type recommended for particular unit type.
B. Glass Materials (thickness as per unit type):
1. Laminated Glass: ASTM E774, ASTM 1036.90 Dual-Seal.

2.4 FABRICATION
A. Panel Construction: Mortise and tenon type joints, neatly and mechanically secured. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.
B. Frame Construction: Butt joints, neatly and mechanically secured by means of screws and formed aluminum corner brackets.
C. Operator for Automatic Units: Electromechanical, modular type construction.

2.5 FINISHES
A. Standard Stock Finishes (for all exposed aluminum surfaces): Verify color with Finish Schedule
1. 313-R1 Dark Bronze: Architectural Class II Anodic Coating with Integral Color, AA-MI2C22A32

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS
A. Compliance: Comply with factory product data, technical bulletins, and installation and carton instructions.

3.2 INSTALLATION
A. General: Install window units plumb, level, and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances. Provide support and anchor in place.
1. Dissimilar Materials: Comply with AAMA 101, Appendix Dissimilar Materials by separating aluminum materials and other corrodible surfaces from sources of corrosion or electrolytic action contact points.
2. Weather-tight Construction: Install sill and other members in a bed of sealant or with joint filler or gaskets. Coordinate installation with wall flashings and other components of construction.
3. Electrical (for automatic units): General or electrical contractor to install all wiring to operator. Up to five units may be connected to a single circuit.

3.3 CLEANING, ADJUSTMENT, AND PROTECTION
A. Cleaning: After installation, installer will clean product surfaces and lubricate operating equipment for optimum condition and safety.
B. Adjustment (for automatic units): Installer to adjust operator and controls for optimum condition and safety.

END OF SECTION C08580

SECTION - C08710: FINISH DOOR HARDWARE

PART I - GENERAL

1.1 SUMMARY
A. All door hardware covered in this section is to be provided by the National Accounts Vendor and installed by the General Contractor, unless noted otherwise on the drawings.
1. Provide door gaskets, including weather stripping and seals and thresholds.
2. Provide gate hardware.

1.2 RELATED SECTIONS
A. Standard Steel Doors and Frames: SECTION C08110
B. Plastic Laminate Faced Doors: SECTION C08210
C. Aluminum-Framed Entrances & Storefronts: SECTION C08411

1.3 REFERENCES
A. ANSI/BHMA Certified Product Standards - A156 Series
B. Hardware items shall comply with ANSI specifications and the Americans with Disabilities Act.

1.4 QUALITY ASSURANCE
A. Hardware Supplier: Company specializing in supplying door hardware with three years documented experience approved by manufacturer.

1.5 SUBMITTALS
A. General: Submit per SUBMITTALS Section.
B. Operation and Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance. Data shall be submitted as part of contract closeout.

1.6 DELIVERY, STORAGE AND HANDLING
A. Package hardware items individually with necessary fasteners, instructions, and installation templates, when necessary; label and identify each package with door opeing code to match hardware schedule.

1.7 COORDINATION OF WORK
A. Coordinate Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
B. Provide templates or actual hardware as required to ensure proper preparation of doors and frames.
C. Sequence installation to accommodate required utility connections.
D. Coordinate Owner's keying requirements during course of Work.

1.8 WARRANTY
A. Furnish manufacturer warranty for lockstes and door closers.

1.9 MAINTENANCE MATERIALS
A. Furnish special wrenches and tools applicable for each different and for eash special hardware component.
B. Furnish maintenance tools and accessories supplied by hardware componet manufacturer.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
Locknet
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 COMPONENTS
A. General Hardware Requirements: Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.
1. Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid dealy in Work.
2. Reinforcing Units: Furnished by door and frame manufacturers; coordinated by hardware supplier or hardware manufacturer.
3. Fasteners: Furnish as recommended by hardware manufacturer and as required to secure hardware. Finish to match hardware item being fastended.
B. Hinges: ANSI A156.1, full mortise type, template type, ASNI A156.7, complying with followiong general requirements unless otherwise scheduled.
1. Widths: Sufficient to clear trim projection when door swings 180 degrees.
2. Number: Furnish minimum three hinges to 90-inches height.
a. Interior Flat Panel Wood Doors: Furnish minimum three hinges.
3. Size and Weight: 4-1/2 inch standard weight typical for 1-3/4 inch doors.
a. Doors over 40-inch wide, extra heavy weight ball or oilite bearing hinges.
b. Doors over 48-inch wide, 5-inch extra heavy ball or oilite bearing hinges.
4. Pins: Furnish nonferrous hinges with non-removable pins (NRP) at exterior and loced out swinging doors, non-rishing pines at interior doors.
5. Tips: Flush
C. Locks and Latchsets: Furnish locksets compatible with specified cylinders. Typical 2-3/4 inch backset. Furnish standard strickes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.
1. Board (Cylindrical) Locksets: ANSI A156.2, Series 4000, Grade 1 unless otherwise indicated.
2. Stainless Steel latchbolt for added strength and wear resistance. Direct 1/2-inch throw is standard.
3. Wear-resistant plates in the chassis to help extned the life of the lockbody and provide smoother lock operation.
4. Lifetime warranted heavy-duty lever return springs prevent lever sag and provide positive return to lever to horizontal position.
D. Cylinders:
1. All cylinders to be as specified in Hardware Schedule.
2. Keying: Keyed as directed by Owner.
3. All locking products to be supplied with black construction cores for use during construction.
4. Keys: Nickel Silver
5. Supply quantity of keys as directed by Owner.
E. Closers: ANSI A156.4 modern type with cover, surface mounted closers; full rack and pinion type with steel spring and non-freezing hydraulic fluid.
1. Adjustability: Funish controls for regulating closing, latching, speeds, and back checking.
2. Arms: Type to suit individual condition; parallel-arm closers at reverse bevel doors where doors swing full 180 degrees.
3. Location: Mount closers on inside of exterior doors, room side of interior doors typical; mount on pull side of other doors.
4. Operating Pressure: Maximum operation pressure as follows:
a. Interior Doors: Maximum 5 pounds
b. Exterior Doors: Maximum 8 pounds
F. Push/Pull, Manual Bolts, Protection Plates, Gaskets, Thresholds and Trim: Furnish as indicated in Schedule, with accessories as required for complete operational door installations.
1. Push/Pulls: ANSI A156.6; push plates minimum 0.050-inch thick. Furnish straight type pulls with bolts to secure from opposite door face; furnish with minium 0.050-inch pull plates unless otherwise indicated.
2. Manual Constant Latching Bolts: ANSI A156.16 Grade 1 top and bottom fush bolts, with dust-proof floor strike, unless otherwise noted.
3. Kick Plates: ANSI A156.6 metal; height indicated in Schedule by 1-inch less than door width; minimum 0.050-inch thick.
4. Weatherstripping: Furnish continuous fire rated gaskets at top and sides of exterior doors.
5. Thresholds: Maximum 1/2-inch height
6. Wall Stops: ANSI A156.1, Grade 1, 2-1/2 inch wall stop, convex pad wall stop with no visible screws.
7. Floor Stops: ANSI A156.1, Grade 1, standard floor type with no visible screws; furnish with accessories as required for applications indicated.

2.3 ACCESSORIES
A. Lock Trim: Furnish levers with rose, escutcheon plate as selected from manufacturer's full range of levers and roses.
B. Through Bolts: Do not permit through bolts and grommet nuts on door faces in occupied areas unless no alternative is possible.

2.4 FINISHES
A. Finishes: ANSI A156.18; furnish following finishes except where otherwise indicated in the Schedule.

2.5 HARDWARE FOR HIGH VELOCITY/HURRICANE ZONES
A. All HVHZ hardware sets to meet NOAA data requirements. Refer to Florida approvals and Notice of Acceptance for approved hardware.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on shop drawings.

3.2 INSTALLATION
A. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.
B. Mounting Heights from Finished Floor to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes whre not otherwise indicated.
1. ANSI/NFPA 80 and Door Hardware Institute
2. Conform to ANSI A117.1 and ADA for positioning requirements for the handicapped.
C. Do not permit adjacent work to damage hardware or hardware finish.
D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant.

3.3 ADJUSTING
A. Initial Adjustment: 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.

3.4 CLEANING AND PROTECTION
A. Protect all hardware stored on site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase.
B. Clean adjacent surfaces soiled by door hardware installation.
C. Clean operating items as necessary to restore proper finish and provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Owner occupancy.

END OF SECTION C08710

SECTION - C08800: GLAZING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
1. Windows.
2. Doors.
3. Storefront framing.
4. Glazed entrances.

1.2 SUBMITTALS
A. Submit under the provisions of SECTION C01300.

1.3 QUALITY ASSURANCE
A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. GANA Publications: GANA's "Laminated Glazing Reference Manual" and GANA's "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 labeling is indicated, permanently mark glazing with certification label of the SGCC or the 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.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS, GENERAL
A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
B. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass. Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
C. Windborne-Debris-Impact Resistance: Provide exterior glazing that passes basic-protection testing requirements in ASTM E 1996 for Wind Zone _____ when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on the Project and shall be installed in same manner as glazing indicated for use on the Project.
1. Large-Missile Test: For glazing located within 30 feet (9.1 m) of grade.
2. Small-Missile Test: For glazing located more than 30 feet (9.1 m) above grade.
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 (W/sq. m x K).
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.

2.2 GLASS PRODUCTS
A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.
B. Heat-Treated Float Glass: ASTM C 1048; Type I: Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.
C. Acid Etched Glass: ASTM C 1036, Type II, Class 1 (clear), Form 3; Quality-Q6, Finish F1 (etched one side).

2.3 LAMINATED GLASS
A. Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, and with other requirements specified. 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 recommendations.
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: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, with "Windborne-Debris-Impact Resistance" Paragraph in "Glass Products, General" Article, and with other requirements specified. 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[one of] the following to comply with interlayer manufacturer's written recommendations:
a. Polyvinyl butyral interlayer.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.

2.4 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, and complying with other requirements specified.
1. Sealing System: Dual seal.
2. Spacer: Manufacturer's standard spacer material and construction.

2.5 GLAZING GASKETS
A. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:
1. Neoprene complying with ASTM C 864.
2. EPDM complying with ASTM C 864.
3. Silicone complying with ASTM C 1115.
4 Thermoplastic polyolefin rubber complying with ASTM C 1115.

2.6 GLAZING SEALANTS
A. General:
1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they will 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. Colors of Exposed Glazing Sealants: As indicated by manufacturer's designations.
B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.

2.7 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 804.3 tape, where indicated.
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.

2.8 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).

2.9 MONOLITHIC-GLASS TYPES
A. Glass Type G-1: Clear fully tempered float glass.
1. Thickness: 1/4 inch (6.0 mm).
2. Provide safety glazing labeling.
B. Glass Type G-11: Clear fully tempered float glass.
1. Thickness: 1/2 inch (13.0 mm).
2. Provide safety glazing labeling.

2.10 LAMINATED-GLASS TYPES
A. Glass Type G-3: Clear laminated glass with two plies of fully tempered float glass.
1. Thickness of Each Glass Ply: 1/8 inch (6.0 mm).
2. Interlayer Thickness: 0.030 inch (0.76 mm).
3. Provide safety glazing labeling.

2.11 INSULATING-GLASS TYPES
A. Glass Type GL-21: Low-e-coated, clear insulating glass.
1. Overall Unit Thickness: 1 inch (25 mm).
2. Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4. Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Visible Light Transmittance: 54 percent minimum.
8. Winter Nighttime U-Factor: 0.29 maximum.
9. Summer Daytime U-Factor: 0.27 maximum.
10 Solar Heat Gain Coefficient: 0.28 maximum.
11 Provide safety glazing labeling.
B. Glass Type GL-31: Low-e-coated, clear insulating glass.
1. Overall Unit Thickness: 1 inch (25 mm).
2. Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4. Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Acid Etching: Opaque on third surface.
8. Visible Light Transmittance: 54 percent minimum.
9. Winter Nighttime U-Factor: 0.29 maximum.
10 Summer Daytime U-Factor: 0.27 maximum.
11 Solar Heat Gain Coefficient: 0.28 maximum.
12 Provide safety glazing labeling.

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. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
E. 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.
F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
G. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
H. 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 and then to jambs. Cover horizontal framing joints by applying tapes to jambs and 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. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels and clean surfaces.
B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.
C. 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; remove as recommended in writing by glass manufacturer.
D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 088000

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

HFA Creative Solutions Meaningful Places
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CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859
BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-908

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:51:59 PM
02859-A-908-SPECIFICATIONS

DIVISION 9 - FINISHES

SECTION - C09111: NON-LOAD-BEARING STEEL FRAMING

PART I - GENERAL

1.1 SUMMARY

A. This Section includes non-load-bearing steel framing members for the following applications:

1. Interior framing systems (e.g., supports for partition walls, framed soffits, furring, etc.).
2. Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.).

B. This section will be applicable depending on the construction type shown on the drawings.

1.2 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by a testing and inspection agency.

PART II - PRODUCTS

2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL

A. 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, G90 (Z275).

2.2 SUSPENSION SYSTEM COMPONENTS

A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch-(1.59-mm-) diameter wire, or double strand of 0.0475-inch- (1.21-mm-) diameter wire.
B. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch (4.12-mm) diameter.
C. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. Armstrong World Industries, Inc.; Drywall Grid Systems.
b. Chicago Metallic Corporation; Drywall Furring System.
c. USG Corporation; Drywall Suspension System.

2.3 STEEL FRAMING FOR FRAMED ASSEMBLIES

A. Manufacturers:
1. Dietrick Metal Framing, Chester, OH, 45069
2. Substitutions shall be accepted per SECTION C01030

B. Steel Studs and Runners: ASTM C 645.
1. Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm) As well as, as indicated on drawings.
2. Depth: As indicated on Drawings.
C. Slip-Type Head Joints: Where indicated, provide the following:
1. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL

A. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.
1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

3.2 INSTALLING SUSPENSION SYSTEMS

A. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
B. 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, counstersplaying, 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.
3. Do not attach hangers to steel roof deck.
4. Do not connect or suspend steel framing from ducts, pipes, or conduit.
5. Do not attach hangers to exhaust hoods.
C. Seismic Bracing: Sway-brace suspension systems with hangers used for support.
D. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
E. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

3.3 INSTALLING FRAMED ASSEMBLIES

A. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
B. Install studs so flanges within framing system point in same direction.
1. Space studs as follows:
a. As indicated on drawings.
C. Install tracks (runners) 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 penetrating 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 runner track section (for cripple studs) at head and secure to jamb studs.
a. Install two studs at each jamb, unless otherwise indicated.
b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (12.7-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
c. 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.
a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
D. Direct Furring:
1. Screw to wood framing.
E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

END OF SECTION C09111

SECTION - C09250: GYPSUM BOARD

PART I - GENERAL

1.1 SUMMARY

A. This Section includes the following:
1. Interior gypsum board.
2. Tile backing panels.

1.2 RELATED SECTIONS

A. Building Insulation: SECTION C07210

1.3 QUALITY ASSURANCE

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.

PART II - PRODUCTS

2.1 INTERIOR GYPSUM BOARD

A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
1. 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:
a. National Gypsum Company.
b. USG Corporation.
B. Standard Interior:
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
C. Type X:
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.
D. Flexible Type: Manufactured to bend to fit radii and to be more flexible than standard regular-type gypsum board of same thickness.
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
E. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.

2.2 TILE BACKING PANELS

A. Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M or ASTM C 1396/C 1396M.
1. 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:
a. National Gypsum Company.
b. USG Corporation.
2. Core: 5/8 inch (15.9 mm), Type X.
B. Cementitious Backer Units: ANSI A118.9.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. USG Corporation; DUROCK Cement Board.
2. Thickness: 1/2 inch (15.9 mm).

2.3 TRIM ACCESSORIES

A. Interior Trim: ASTM C 1047.
1. Material: Galvanized.
2. Shapes:
a. Cornerbead.
b. LC-Bead: J-shaped; exposed long flange receives joint compound.
c. Curved-Edge Cornerbead: With notched or flexible flanges.

2.4 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.
B. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.
C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, 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 drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
D. Joint Compound for Tile Backing Panels:
1. Water-Resistant Gypsum Backing Board: Use setting-type taping compound and setting-type, sandable topping compound.
2. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.5 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
B. 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 (0.84 to 2.84 mm) thick.
2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
C. Glue: Liquid Nails drywall adhesive or equal, installed per manufacturer instructions.

PART III - EXECUTION

3.1 APPLYING AND FINISHING PANELS, GENERAL

A. Comply with ASTM C 840.
B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) 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. Wood Framing: Install gypsum panels over wood framing, with floating internal corner construction. Do not attach gypsum panels across the flat grain of wide-dimension lumber, including floor joists and headers. Float gypsum panels over these members, or provide control joints to counteract wood shrinkage.

3.2 APPLYING INTERIOR GYPSUM BOARD

A. Install interior gypsum board in the following locations:
1. Type X: As indicated on Drawings.
2. Flexible Type: Apply at curved assemblies.
3. Ceiling Type: Ceiling surfaces.
4. Moisture- and Mold-Resistant Type: As indicated on Drawings.

3.3 APPLYING TILE BACKING PANELS

A. Water-Resistant Gypsum Backing Board: Install at sinks, toilets, mop sinks and where indicated. Install with 1/4-inch (6.4-mm) gap where panels abut other construction or penetrations.
B. Cementitious Backer Units: As indicated on drawings.
C. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.4 INSTALLING TRIM ACCESSORIES

A. General: 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.
B. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners, unless otherwise indicated.
2. LC-Bead: Use at exposed panel edges.
3. Curved-Edge Cornerbead: Use at curved openings.

3.5 FINISHING GYPSUM BOARD

A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
D. 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: N/A
3. Level 3: Panels that are substrate for tile and FRP, & all other panel locations not indicated in this section.
4. Level 4: At panel surfaces that will be exposed to view in public areas.
E. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.6 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.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION C09250

SECTION - C09310: CERAMIC & GLASS TILE

PART I - GENERAL

1.1 SECTION INCLUDES

A. Ceramic tile for walls.
B. Glass Tile for walls.
C. Subway Tile for walls.
D. Red Penny Tile for floors.
E. Porcelain Tile for floors.
F. Base Tile for walls.
G. Setting adhesives and grout.

1.2 RELATED SECTIONS

A. Cast-In-Place Concrete: SECTION C03300
B. Gypsum Board Systems: SECTION C09250

1.3 REFERENCE PUBLICATIONS

A. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER

A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

2.2 MATERIALS

A. Ceramic Tile, Glass Tile, Subway Tile, Porcelain Tile and Base Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
B. Cementitious Bond Coat (Thin-set):
1. Floors: Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
2. Base and floors: As recommended by TCA for the particular conditions in which the tile is being set. Refer to Interior Finish Schedule, Floor Finish Plan for coordination.
3. For Glass Tile: As recommended by manufacturer.
C. Interior Grout:
1. Latex Portland cement grout conforming to ANSI A118.6; color (pigment additive) - drawings.
2. Floors - Acid resistant grout, color (pigment additive) as shown on drawings.

PART III - EXECUTION

3.1 INSPECTION

A. Examine all surfaces receiving tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8-inch in 10 feet.
B. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION

A. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.
B. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" and "grout joints" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

END OF SECTION C09310

SECTION - C09330: QUARRY TILE

PART I - GENERAL

1.1 SECTION INCLUDES

A. Quarry tile floor and base
B. Setting adhesives and grout
C. Waterproofing Membrane

1.2 RELATED SECTIONS

A. Cast-In-Place Concrete: SECTION C03300

1.3 REFERENCE PUBLICATIONS

A. Tile Council of America (TCA): Most current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER

A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.2 MATERIALS

A. Quarry Tile: See Finish Schedule.
B. Cementitious Bond Coat (Thin-Set): Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
C. Grout: Mapei, "Kerapoxy IEG CQ", epoxy grout; conforming to ANSI A118-3. Sanded, see drawings for color.
D. Waterproofing
1. Mapelastic Aquadefense as manufactured by Mapei. 40 mils thickness.

PART III - EXECUTION

3.1 INSPECTIONS

A. Examine all surfaces receiving quarry tile for any defects that would impair installation and if any are found, make such corrections.
B. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION

A. Conform to tile manufacturers' printed specifications and instructions and to "cement mortar" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job. In general, standard practice will be expected and accepted and poor or sloppy workmanship will be rejected. Surface to receive tile must be free of sealers, curing compounds, coatings, oil, dust and must by dry.
B. Waterproofing Membrane: Conform to manufacturer's printed specifications and instructions.

3.3 CLEAN-UP

A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C09330

SECTION - C09510: ACOUSTICAL PANEL CEILINGS

PART I - GENERAL

1.1 SUMMARY

A. This section includes ceilings consisting of acoustical panels and exposed suspension systems.

1.2 SUBMITTALS

A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

1.3 RELATED SECTIONS

A. Gypsum Board: SECTION C09250
B. Division 15 - Mechanical Work
C. Division 16 - Electrical Work

1.4 QUALITY ASSURANCE

A. Single-Source: Provide acoustical panel units and grid components by a single manufacturer.
B. Fire Performance: Identify acoustical ceiling components with appropriate markings of applicable testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying with ASTM E 1264 for Class A Products.
a. Flame Spread: 25 or less
b. Smoke Developed: 50 or Less

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination and other causes.
B. Before installing units, permit them to reach toom temperature and stabilized moisture content.
C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Lay-In Ceiling Tiles (Dining/Serving): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings
B. Lay-In Ceiling Tiles (Kitchen/Back-of-House): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
C. Metal Suspension System: CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
1. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung.
2. Wire Hangers and Ties; ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three times design load, but not less than 12 guage.
3. Edge Molding and Trim: Manufacturer's standard moldings for edge and penetrations.

PART III - EXECUTION

3.1 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

3.2 INSTALLATION

A. Install suspension system and acoustical panel assemblies to comply with written publications from the manufacturer.
B. Suspend main beam from overhead construction with hanger wires plumb and free. Space hangers not more than 48-inches on center along the length of the main runner. Follow appropriate guidelines for earthquake zones.
C. Install edge molding and trim at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
D. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

END OF SECTION C09510

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02859-A-909-SPECIFICATIONS

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Lee's Summit, Missouri
07/19/2022

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DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-909

SECTION - C09655: VINYL WALL BASE

PART I - GENERAL

1.1 SUMMARY
A. This section includes vinyl wall base and adhesive.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Johnsonite Inc., Chagrin Falls, OH 44023; (800) 899-8916

2.2 Wall Base
A. Coved base complying with FS SS-40, Type 2. Refer to the Finish Schedule.

2.3 ADHESIVES
A. Acrylic Cove Base Adhesive specifically formulated for rubber and vinyl wall base.
1 Johnsonite #960
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Contact Bond Adhesive specifically formulated for wall base at porous floor and non-porous locations.
1. Johnsonite #946
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).

PART III - EXECUTION

3.1 GENERAL
A. Install vinyl base according to manufacturer's written installation instructions. Apply base to walls, columns, permanent casework and cabinets. Install base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned. Tightly adhere wall base to substrate throughout. Install pre-molded outside corners before installing straight pieces.
B. Apply three (3) bead of adhesive for entire length of base. Stay 1/4-inch away from top edge to prevent adhesive oozing. Apply clear silicone sealant to top edge. NO EXCEPTIONS.

END OF SECTION C09655

SECTION - C09770: REINFORCED WALL COVERINGS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Prefinished polyester glass reinforced plastic sheets and adhered to unfinished gypsum wallboard. Standard FRP with textured surface.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.3 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
C. Quarry Tile: SECTION C09330

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel compentes with appropriate markings of applicabe testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less
B. Sanitary Standards: System components and finishes to comply with:
1. United States Department of Agricultural (USDA) requirements for food preparation facilities, incidental contact.
2. Food and Drug Administration (FDA) 1999 Food Code 6-101.11

1.5 WARRANTY
A. Furnish one year guarantee against defects in material and workmanship.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Back-of-House
1. Marlite; Dover, OH 44622
2. Glasteel; Moscow, TN 38057
3. Crane Composites; Channahon, IL 60410
B. Play Area
1. Koroseal; Fairlawn, OH 44333

2.2 PANELS
A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D5319. Back surface smooth, imperfections which do not affect functional properties are not cause for rejection.
B. Dimensions: 0.090-inches (thick) x 48-inches (wide) x 120-inches (high)
C. Back-of-House: Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
1. Marlite - 'Standard FRP P199', Pebbled, Bright White
2. Stabilit America - 'Glasliiner FRP 1200', Pebbled, White
3. Carne Composites - 'Glasbord FRP', Pebbled, White

2.3 WALLCOVERING
A. Play Area: Rigid high-impact protective wallcovering.
B. Dimensions: 0.040-inches (thick) x 48-inches (wide) x 96-inches (high)
C. Color and Texture as indicated in the Finish Schedule.

2.4 MOLDINGS AND ACCESSORIES
A. Fiberglass Reinforced Panels: Provide extruded PVC Trim Profile, unless otherwise noted, as required for panels including but not limited to:
1. Inside Corner: length as required, color to match panel
2. Division: length as required, color to match panel
3. Edge: length as required, color to match panel
4. Outside Corner: F 560 Stainless Steel, length as required, finish No. 4 Satin
B. Wallcoverings: Accessory moldings by Koroseal to ensure accurate match of colors, dimension, and physical properties.

2.5 ADHESIVES
A. Fiberglass Reinforced Panels Adhesives shall meet or exceed:
1. Marlite C-551 FRP Adhesive. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Wallcoverings: Use adhesives provided by Koroseal.

PART III - EXECUTION

3.1 PREPARATION
A. Examine backup services to determine that corners are plumb and straight, surfaces are smooth, uniform, clean, and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with adjoining surface.
1. Verify that stud spacing does not exceed 24-inches on-center.
B. Repair defects prior to installation. Level wall surfaces to panel manufacturer's requirements. Remove protrusions and fill indentations.

3.2 INSTALLATION
A. Comply with manufacturer's recommended procedures and installation sequence.
B. Fiberglass Reinforced Panels:
1. Cut sheets to meet supports allowing 1/8- inch clearance for every 8 foot of panel.
2. Apply panels to board substrate, above base, vertically oriented with seams plumb and pattern aligned with adjoining panels.
3. Apply panel moldings to all panel edges using silicone sealant providing for required clearances.
a. All moldings must provide for a minimum 1/8- inch of panel expansion at joints and edges, to insure proper installation.
b. Apply sealant to all moldings, channels, and joints between the system and different materials to assure watertight installation.
C. Wallcovering:
1. Install wallcoverings per manufacturer's written instructions.
2. Install sheets with texture running in the same direction for a uniform appearance.

3.3 CLEANING
A. Remove excess sealant from panels and moldings. Wipe panel down using a damp cloth and mild soap solution or cleaner.
B. Refer to manufacturer's specific cleaning recommendations. Do not use abrasive cleaners.

END OF SECTION C09770

SECTION - C09910: PAINTING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Painting all exposed exterior and interior surfaces not specifically excluded herein.

1.2 RELATED SECTIONS
A. Finish Schedule as indicated on the Drawings
B. Unit Masonry Assemblies: SECTION C04810
C. Sealants and Caulking: SECTION C07920
D. Standard Steel Doors and Frames: SECTION C08110
E. Gypsum Board: SECTION C09250
F. Division 15 - Mechanical Work
G. Division 16 - Electrical Work

1.3 INTENT
A. Providing Owner selected finishes and colors for exposed surfaces as part of the Construction Contract. Contractor shall be responsible for field painting surfaces, including exposed mechanical and electrical equipment, piping, etc. "Exposed" shall mean visible from: ground level; floors and levels of construction of this contract; and floors and levels of buildings on adjacent properties.

1.4 QUALITY ASSURANCE
A. Qualifications of Workmen: Employ skilled workmen, experienced in the use of the specific product involved. Quality workmanship is required.
B. Approval of Manufacturer: Materials used shall be exactly as specified in quality. No claim by painting subcontractor to unsuitability or unavailability of any material specified, or his unwillingness to use same, or his inability to produce quality work with same, will be entertained.

1.5 SUBMITTALS
A. Paint Schedule: As soon as possible after Contract is signed, prepare and submit to Owner for acceptance an itemized PAINT SCHEDULE, listing the kinds and types of paints proposed for each and every application by name of manufacturer and brand name and color number of the paint for each application. This PAINT SCHEDULE submitted shall be similar in tentative paint listed contained hereinafter with no exceptions.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Painting: The Sherwin Williams Company, Cleveland, OH 44115. See National Accounts on the Drawings.

2.2 MATERIAL NOTICE
A. The use of paint products containing lead is prohibited.

2.3 MATERIALS
A. Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein.
1. Exterior Surfaces
a. 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
b. Ferrous & Non-Ferrous Metals
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
c. Galvanized
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
d. Concrete
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 Satin Latex
e. Unit Masonry
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
2. Interior Surfaces:
a. Wood (painted):
1) Surface Prep: Wood - Interior Sherwin Williams S-W 24
2) Prime Coat: Sherwin Williams PrepRite Classic Interior Latex Primer
3) Intermediate: Sherwin Williams ProMar 200 Interior Latex
4) Finish Coat: Sherwin Williams ProMar 200 Interior Latex
b. Gypsum Board:
1) Surface Prep: Gypsum Board - Sherwin Williams Interior & Exterior S-W 8
2) Prime Coat: Sherwin Williams PrepRite 200 Interior Latex Wall Primer
3) Intermediate: Sherwin Williams ProMar 200 Interior Latex sheen per Finish Schedule
4) Finish Coat: Sherwin Williams ProMar 200 Interior Latex sheen per Finish Schedule
c. Ferrous Metals (exposed) include ceiling diffusers/grilles
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 PorMar 200 Interior Latex Egg Shell, UNO
4) Finish Coat: Sherwin Williams ProMar 200 Interior Latex Egg Shell, UNO
d. Open Ceilings (Gypsum Board)
1) Prime Coat: Sherwin Williams PrepRite Classic Interior Latex Primer
2) Intermediate: Sherwin Williams Color Accents Interior Latex Flat
3) Finish Coat: Sherwin Williams Color Accents Interior Latex Flat
e. Open Ceilings (Wood Trusses)
1) Prime Coat: Sherwin Williams PrepRite 200 Interior Latex Wall Primer
2) Intermediate: Sherwin Williams Color Accents Interior Latex Flat
3) Finish Coat: Sherwin Williams Color Accents Interior Latex Flat
f. Open Ceilings / Galvanized Metal - Steel
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 Color Accents Interior Latex Flat
4) Finish Coat: Sherwin Williams Color Accents Interior Latex Flat
B. Coverage: Coverage coats noted above are minimum requirements. Contractor shall provide additional coats as needed for complete coverage.
C. Colors: Colors (shown on the drawings) have been selected by the Owner, who reserves the right to select colors formulated by manufacturers other than those listed hereinbefore. Paint manufacturer shall match color(s) selected and provide color match sample(s) to Owner for acceptance.
D. General Contractor to provide (1) one extra gallon of paint for each color.

2.4 SCAFFOLDING, DROP CLOTHS, ETC.
A. Provide in place, move as necessary during the course of the work, and finally remove from the premises when work is completed, or when directed, scaffolding, staging, ladders, plastic sheeting or other form of drop cloths, masking tapes, storage lockers for paint materials and mixing equipment as needed for proper and efficient performance of the work.

2.5 MIXES
A. Paint shall be ready-mixed unless otherwise accepted by the Owner, and shall be thinned or reduced only in accordance with manufacturer's instruction.

PART III - EXECUTION

3.1 CONDITIONS
A. Apply water-base paints only when temperature of surfaces to be coated and surrounding air temperatures are between 50 degrees F (10 C), unless otherwise permitted by manufacturer's instructions.
B. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are between 45 degrees F (7 C) and 95 degrees F (35 C), unless otherwise permitted by paint manufacturer's printed instructions.
C. Do not apply paint in snow, rain, fog or mist; or when relative humidity exceeds 85% or to damp or wet surfaces; unless otherwise permitted by paint manufacturer's printed instructions.
D. All application of coatings shall be done under adequate illumination.

3.2 PREPARATION
A. Remove dirt, rust, scale, splinters, grease and oil from surfaces to be painted. Prepare surfaces prior to painting as specified by paint material manufacturer. Remove prefinished hardware, electrical devices, etc. before painting. Replace such items after finishes are completely dry. No exterior or interior painting shall be done until surfaces are thoroughly dry. Painting contractor is responsible for defective work from any cause, including unsuitable and improperly prepared surfaces.

3.3 PAINTING
A. General: Apply paint in accord with manufacturer's instructions. Use techniques and applications best suited for type of material being applied. Spread or flow materials on smoothly, with proper film thickness and without runs, sags, skips or other defects. Cut paint in neatly around glass and other edges. Mix, stir, blend, etc. in strict accord with manufacturer's instructions Specific attention is called to stirring time intervals for stains.
B. Wash metal surfaces with mineral spirits to remove dirt, oil or grease before applying primer. Remove rust or scale by wire brushing or sanding cleaning before painting. Marred shop coats of paint shall be cleaned and touched up with primer, prior to finish coats.
C. Galvanized metal surfaces shall be given a crystalline zinc phosphate pre-treatment. Two products for this purpose are Lithoform made by American Chemical Paint Co., Ambler, Pa., and Galvaprep #5, made by Neilson Chemical Co., Detroit, Michigan.
D. Masonry surfaces shall be cleaned of any soil, efflorescence, excess mortar, etc. If wet cleaning is used, allow adequate time for drying to allow for uniform penetration. All cracks shall be pointed or caulked. All voids in masonry joints shall be filled. Neutralize acid washed surfaces. Moisture content of surface shall not exceed 15% in order to apply sealer. Allow new surfaces to age four weeks prior to application of sealer.
E. Interior trim and cabinetry shall be back-primed with wood primer.
F. Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface applied protection prior to surface preparation and painting operations. Remove, if necessary, for completing painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
G. Scratches, cracks and abrasions on surfaces to be painted shall be filled with a spackling compound flush with adjoining surface. When dry, sand smooth and seal before application of priming coat.
H. Enamel applied to wood or metal shall be sanded with fine sandpaper and then cleaned between coats to produce an even, smooth finish.
I. Metal door frames shall be made smooth by filling and sanding before finishing. Touch-up factory prime coat before applying first coat.
J. Prepare and stain interior wood siding as scheduled prior to installation.
K. Drying Time: Unless otherwise specified, exterior paints shall dry for 48-hours and interior paints for 24-hours between coats.
L. Sanding: Sand enamels and varnish lightly and dust between coats.
M. Acceptance:
1. Work is subject to acceptance by the Owner and any work not complying with these specifications shall be corrected to the satisfaction of the Owner.
2. Final coat of paint shall have visual evidence of hiding and uniform appearance.
3. Paint shall be evenly spread and smoothly flowed on without runs, sags, curtains or other evidence of poor application.
4. Spot painting will be allowed to correct soiled or damaged paint surfaces only when touch-up spot will blend into surrounding finish and is invisible to normal viewing. Otherwise, re-coat entire section to corners or visible stopping point.

3.4 PROTECTION AND CLEANING
A. Protect work, adjacent work, and materials, by suitable covering. Upon completion of work, remove paint and varnish spots from floors, glass and other surfaces.

3.5 CLEAN-UP
A. Upon completion of work of this section, remove related debris from the premises.

END OF SECTION C09910

DIVISION 10: SPECIALTIES

SECTION - C10155: PLASTIC LAMINATE TOILET COMPARTMENTS:

PART I - GENERAL

1.1 SECTION INCLUDES
A. Overhead braced toilet compartments and urinal screens.

1.2 REFERENCES
A. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 1996a.
B. NEMA LD 3 - High Pressure Decorative Laminates; 1995.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. See National Accounts Schedule

2.2 MATERIALS
A. Doors, Panels, Horizontal Bracing, and Pilasters: Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Color: As shown on drawings.
2. Wear Resistance: At least 400 percent more wear resistance than NEMA LD 3, general purpose type high pressure laminate.
3. Screw Pull-Out Resistance: 648 lb. (293 kg) perpendicular to surface, when tested in accordance with ASTM D 1037.
4. Edges: Black, polished and free of sharp edges.
5. Durability: Manufacturer's 15-year warranty against delamination and other defects.
6. Panel Thickness:
a. Doors and Panels: 3/4 inch (19 mm).
b. Pilasters: 3/4 inch (19 mm).
c. Horizontal Bracing: 3/4 inch (19 mm).
7. Height:
a. Pilasters: 85 inches (2159 mm).
b. Doors and Panels: 58 inches (1473 mm) to top.
c. Horizontal Bracing: 2 3/4 inches (69 mm).
B. Pilaster Mounting: Solid Phenolic core with decorative high pressure resin impregnated paper surface. Stainless steel shoe, 1.3 inch high, anchored to floor with two 3-1/4 inch Stud Anchors.
C. Headrail: Extruded aluminum, bright finish, with anti-grip design and wall mounting brackets.
D. Hardware: All hardware and fasteners shall be stainless steel set in Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Panel and Pilaster Brackets: Cast or stamped Type 304 stainless steel brackets, with chrome plated shoulder and barrel nuts of vandal-proof one-way operation; attached to walls with screws and plastic expansion anchors.
2. Hinges: Self-closing heavy-duty stainless steel with nylon cams and pin assembly, and door home position adjustment by adjusting bottom hinge unit.
3. Door Latch: Slide latch, strike, and keeper, meeting ADA requirements with emergency access feature.
4. Door pulls: Accessible door pulls must meet ADA requirements.
5. Coat hook with bumper.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in accordance with manufacturer's instructions.

END OF SECTION C10155

SECTION C10240 - TREILLAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Light weight wall mounted trellis (screening) panels for vine growth and coverage.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Sealants and Caulking: SECTION C07920

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications.

1.4 SUBSTITUTIONS
A. Substitutions shall be considered in accordance with provisions of Section C01030.

1.5 QUALITY ASSURANCE
A. Manufacturer: Minimum 5-years experience manufacturing and supplying trellis (screening) structures of the type and style shown on the drawings.

PART II - PRODUCTS

2.1 MANUFACTURER
A. GREENsreen, Los Angeles, CA 90035

2.2 MATERIALS
A. Panels shall be rigid, three-dimensional welded wire grid fabricated 14-guage ASTM A641 galvanized steel wire.
B. Face Grid: Welded wires at each intersection to form a 2x2 inch face grid on both sides of panel.
C. Trusses: Face grids shall be separated by bent wire trusses spaced at 2-inch centers an welded to front and back face grids at each truss apex.
D. Length and Width: As indicated on the drawings
E. Thickness: 3-inches - verify with drawings
F. Tolerance: 1/8-inch in width and 1/4-inch in length
G. Welds: Weld trim to panels, all welds shall be ground smooth and suitable for painting.

2.3 ACCESSORIES
A. Trim: Trim pieces shall be fabricated from 20-guage ASTM A879 galvanized steel.
1. Edge Trim: 2-inch legs x thickness of panel x lengths as required
2. Flat Trim: 1-inch x length as required at center vertical intersections
3. Infill Panels: Support steel as required (by others). Verify locations required at Drive-Thru or where indicated on the drawings.
B. Clips and Fasteners: Provide manufacturer's standard types of clips and straps suitable for mounting conditions. Fabricated from ASTM A879 galvanized steel. Adjustable clips shall have a 1/4-inch diameter 18-8 stainless steel bolt, washer and nut.
C. Fasteners: Fasteners to masonry as shown on the drawings.
2.4 FINISHES
A. Components shall be factory finished after fabrication.
1. Pretreat (clean) components before priming with zinc-rich epoxy powder coat. Topcoat with polyester or polyester-urethane powder coat.
B. Salt Spray Resistance: Finish shall remain rust free with tested 1,680 hours per ASTM B117.
C. Color: As indicated on the drawings

PART III - EXECUTION

3.1 INSTALLATION
A. Install panels to maintain modular grid, plumb and square, centered within area designate.
B. Field cuts shall be at a minimum. Apply touch-up paint to edges when field cutting is required.
C. Fasteners shall meet all manufacturer's written requirements.
D. Repair bent or damaged panels. If panels cannot be repaired to satisfaction of the Architect, the panel shall be removed and replaced with a new panel.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10240

SECTION - C10265: CORNER GUARDS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Surface adhered corner guards as indicated on the drawings.

1.2 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
Ceramic and Glass Tile: SECTION C09310

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel compentes with appropriate markings of applicabe testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less

PART II - PRODUCTS

2.1 MANUFACTURER
A. Korogard, Fairlawn, OH4433

2.2 CORNER GUARDS
A. Koroseal "Koroguard" Series G815: Extruded Corner Guard adhered to substrate corners with glue. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.
1. Dimensions: 1-1/2 inch legs at 90 degree angle
2 Profile: High impact vinyl acrylic extrusion, nominal 0.078-inch thick..
3. Extrusion: Pebble grain finish. Contains EPA registered Micro-Check antimicrobial agent.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.
B. Koroseal "Koroguard" Series GS15 16-guage Stainless Steel Corner Guard adhered to substrate corner. Exposed surfaces shall be free of discoloration or other imperfections.
1. Dimensions: 1-1/2-inch legs at 90 degree angle.
2. Material: Stainless Steel, type 304.
3. Finish: No. 4 Satin.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify by examination that wall surfaces are acceptable to receive the specified guard systems. Notify the Architect in writing if wall surfaces are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION
A. Install corner guards to wall securely in accordance with manufacturer's written instructions.
B. Install corner guards accurately in location, alignment, and elevation.

END OF SECTION C10265

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

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CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET SPECIFICATIONS
SHEET NUMBER A-910

BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO/02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:52:20 PM
02859-A-910-SPECIFICATIONS

SECTION C10420 - IDENTIFYING SIGNAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Extent of Signage as indicated on drawings and specified herein.
B. Exterior signage can be found on the site drawings.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit shop drawings for directories and door identification signs including large-scale sections of typical numbers. Show reinforcement, anchorages, components and finishes.

PART II - PRODUCTS

2.1 SIGNAGE SUPPLIERS
A. Suppliers
1. Clayton Industries, Lake City, GA 30260 see Owner's Sign Package
2. Anchor Signs, Charleston, SC 29405 see Owner's Sign Package
3. Chandler Signs, Atlanta, GA 30534, see Owner's Sign Package
4. National Signs, Houston, TX 77054, see Owner's Sign Package
5. Thomas Signs & Awning, Clearwater, FL 33762, see Owner's Sign Package

2.2 DOOR IDENTIFICATION SIGNS/PUBLIC AREAS
A. Provide door identification signs that read:
MAN with wheelchair symbol
WOMAN with wheelchair symbol
ELECTRICAL ROOM
MECHANICAL ROOM
EMERGENCY EXIT ONLY (1)
EXIT (3)
1. All signage, exterior and interior, shall be in accordance with state and local authorities including raised letters, Braille and symbols.
B. Materials: See Owner's sign package for materials and sizes.
C. Exterior Signage: See Owner's sign package.

PART III - EXECUTION

3.1 INTERIOR SIGNAGE INSTALLATION
A. Install units plumb and level, in locations as shown. Securely attach to supporting structure by means of foam tape and silicone adhesive, in accordance with manufacturer's installation instructions.

3.2 EXTERIOR SIGNAGE
A. Refer to the Owners sign package.
B. Auger hole for each post, set post plumb and fill to grade with concrete, assemble sign panels in accordance with manufacturer's instructions.

END OF SECTION C10420

SECTION - C10523: PORTABLE FIRE EXTINGUISHERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Portable fire extinguishers and mounting brackets for fire extinguishers.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Fire Extinguishers: Materials description including rating and classifications.
2. Schedules showing each type of extinguisher and mounting information.

1.3 RELATED SECTIONS
A. Fire Protection Drawings
B. Division 15 - Plumbing Work

1.4 QUALITY ASSURANCE
A. Provide fire extinguishers of type approved by UL, State Fire Marshal's Office and local regulatory agencies.
B. Provide fully charged fire extinguishers produced by a single manufacturer.

1.5 WARRANTY
A. Special warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fails in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Failure of hydrostatic test according to NFPA 10.
b. Faulty operation of valves or release levers.
2. Warranty period: 1 year from date of substantial completion.

PART II - PRODUCTS

2.1 PORTABLE FIRE EXTINGUISHERS
A. Manufacturers:
1. Amerex Corporation, Trussille, AL 35173
2. Ansul Incorporated, Marinette, WI 54143
3. Badger Fire Protection, Charlottesville, VA 22901
4. Buckeye Fire Equipment Company, Kings Mountain, NC 28086
5. Fire End & Croker Corporation, Elmsford, NY 10523
6. General Fire Extinguisher Corporation, Aston, PA 19014
7. JL Industries, Inc., Bloomington, MN 55435
8. Larsen's Manufacturing Company, Minneapolis, MN 55432
B. Multi-Purpose Chemical Type: Extinguisher unit containing a fluidized and siliconized mono ammonium phosphate powder, nonconductive and nontoxic.
1. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal replaceable valve stem seal, visual pressure gauge, pull pin and upright squeeze grip.
2. Finish: Factory powder coated, Red.
3. Effectiveness (Rating): Class A, B and C fires
C. Class K Wet chemical Type: Extinguisher unit containing a low "pH" potassium acetate solution.
1. Construction: Stainless steel cylinder with protective nozzle tip orifice seal and nonmetallic nozzle tip finger guard, O-ring seal, replaceable valve stem seal, visual pressure gauge, pull pin, and upright squeeze grip.
2. Effectiveness (Rating): Class K fires.
D. Accessories:
1. Mounting Brackets: Provide manufacturer's standard steel bracket, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in locations and at mounting heights complying with applicable regulations.
B. Apply Wall Signs where shown or directed after field painting has been completed and accepted.
C. Ensure that each extinguisher is fully charged and that inspection of each extinguisher has been performed, as evidenced by the National Association of Fire Equipment Distributors certification tag, just prior to turnover.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10523

SECTION: C10535 - CANOPIES

PART I - GENERAL

1.1 DESCRIPTION OF WORK
A. Work in this section includes furnishing and installation of extruded aluminum overhead hanger rod style canopies.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
2. Canopy must conform to local building codes, provide PE stamped calculations when required.
3. Confirm dimensions prior to preparation of shop drawings when possible.
4. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Mapes Canopies, Lincoln, NB 68514. Phone: (888) 273-1132
1. Super Lumideck (Covered), HR Hanger Rod Supported
2. SuperShade (Louvered), HR Hanger Rod Supported

2.2 MATERIALS AND FINISHES
A. Decking shall consist of 3-inch extruded flat soffit 0.078 decking.
B. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown in current manufacturer literature.
C. Hanger rods and attachment hardware shall be powder coated.
D. Fascia shall be standard 8-inch extruded "GC" style.
E. Flashings shall be by the manufacturer
F. Finishes: Finish type shall be 2-coat Kynar finish, see drawings for color.

2.3 FABRICATION
A. All canopies are shipped in preassembled sections for ease of installation.
B. All connections shall be mechanically assembled utilizing 3/16-inch fasteners with a minimum shear stress of 350 pounds pre-welded or factory-welded connections are not acceptable.
C. Decking shall be designed with interlocking roll-formed aluminum members.
D. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to side Scupper near front.

PART III - EXECUTION

3.1 INSPECTION
A. Confirm that surrounding area is ready for the canopy installation.
B. Installer shall confirm dimensions and elevations to be as provided by Mapes Industries.
C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed

3.2 INSTALLATION
A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection
B. Canopy Installation: Installer provides 1/2-inch stainless steel lag bolts at 18" on center at head locations, 1/2-inch stainless steel thru bolts at all tie back locations, refer to manufacturer's recommendations.

3.3 CLEAN-UP
A. After installation, entire system shall be left in a clean condition.

END OF SECTION C10530

SECTION - C10810: TOILET ACCESSORIES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Toilet Accessories: Provide and install per the schedule on the drawings.
B. All bathroom fixtures and accessories shall comply with all federal, state and local handicap accessibility code requirements.

1.2 RELATED SECTIONS
A. Sealants and Caulking: SECTION C07920
B. Rough Carpentry: SECTION C06000

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each accessory required.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Manufacturers: As indicated in the Restroom Legend on the Drawings.

PART III - EXECUTION

3.1 INSPECTION
A. Inspect blocking and plate inserts in framing to determine if material is in proper position for installation of accessories prior to wallboard surfacing being applied. Accessories will be securely attached to framing. Grab bars will be installed to withstand a 250 pound. loading condition; provide necessary concealed anchorage devices to meet load requirements.

3.2 INSTALLATION
A. Blocking: Contractor to provide and install all necessary blocking for the accessories.
B. Install items in accord and with manufacturer's instructions, in locations shown on the drawings in cooperation with the work of other trades.
C Remove protective covers at final clean-up of installation.
.

3. CLEAN-UP
3
A. Upon completion of work, remove related debris from the premises.

END OF SECTION C10820

DIVISION 12 - FURNISHINGS

SECTION C12390 - MILLWORK, CABINETRY AND COUNTERTOPS

PART I - GENERAL

1. DESCRIPTION
1
A. Coordinate installation of Owner supplied millwork, cabinetry and countertops.

1. RELATED WORK SPECIFIED ELSEWHERE
2
A. Concrete Footings/Slab on Grade: SECTION C03300
B. Finish Carpentry: SECTION C06410
C Vinyl Base: SECTION C09655
.
D Division 15 - Plumbing Work
.

1. SUBMITTALS
3
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings.

PART II - PRODUCTS

2. Manufacturer:
1
A. Clayton Fixture or FCC, see National Accounts. Owner's contractor will supply material as shown. Material supplied includes, but is not limited to:
1. Cabinetry
2. Counters
3. Restroom lavatories and mirror
4. Window Sills
5. Wood Trim
6. Wainscoting
7. Shelving

PART III - EXECUTION

3. INSPECTION
1
A. Examine all surfaces to which the cabinets and tops are to be applied. Do not proceed until unsatisfactory conditions are corrected and surfaces are acceptable of the surfaces.

3. INSTALLATION
2
A. Installation of millwork, cabinets, countertops, etc. shall be performed by Manufacturer.
B. Installation of wainscot shall be preformed by General Contractor.
C Installation of concrete curbs for cabinetry shall be provided by the General Contractor.
.

END OF SECTION C12390

SECTION C12500 - WINDOW TREATMENT

PART I - GENERAL

1. DESCRIPTION
1
A. Manually operated sunscreen roller shades, provided and installed by the contractor.

1. RELATED SECTIONS
2
A. Rough Carpentry: SECTION C06000
B. Gypsum Board: SECTION C09250

1. SUBMITTALS
3
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Styles, dimensions, profiles, finishes and operating instructions.
3. Mounting details and installation methods.

1. QUALITY ASSURANCE
4
A. Single-Source: Provide roller shades units and fabrics by a single manufacturer.
B. Fire Performance: Identify roller shade components with appropriate markings of applicable testing and inspection organization.
1. NFPA 701-99 small and large-scale vertical burn.
C Anti-Microbial Performance: Identify fabric with appropriate markings of applicable
. testing and inspection organization.
1. ASTM E 2180, ASTM G21, AATCC30 Part 3, ASTM D 3273, GREENGUARD Mold and Bacteria Standard ASTM 6329, Microban
D Safety Standard Performance: ANSI/WCMA A100.1-2010
.

1. WARRANTY
5
A. Roller Shade Hardware: Manufacturer's standard twenty-five (25) year limited warranty. Chain to have manufacturer's standard one (1) year warranty.
B. Roller Shade Fabric: Manufacturer's standard ten (10) year limited warranty.

PART II - PRODUCTS

2. MANUFACTURERS
1
A. Roller Shade Hardware:
1. Roll-A-Shade, Elsinore, CA 92502
2. Window Interiors, Altamote Springs, FL 32701
B. Roller Shade Fabric:
1. Phifer Incorporated, Tusaloosa, AL 35401

2. ROLLER SHADE
2
A. Manual operation interior, chain drive, sunscreen roller shades in all windows as shown on the drawings. Fabricate units to completely fill openings from head to sill and jamb to jamb.
1. Construction of shade includes the fabric, the hem weight, hem-pocket and/or bottom rail with end caps, shade roller tube and the attachment of the shade band to the roller tube. Sewn hems and open hem packets are not acceptable.
a. Hem weight shall be continuous inside inside a sealed hem pocket. hem pocket construction and hem weights shall be similar, for all shades within on space.
2. Fascia: Continuous removable extruded aluminum fascia that attaches to shade mounting brackets with out the use of adhesives, magnetic strips or exposed fasteners.
a. Fascia shall be able to be installed across one shade bands in one piece
b. Fascia shall fully conceal brackets, shade roller and fabric on the tube.
c. Provide bracket/fascia end caps as required.
d. Color as indicated on drawings.
3. Manual Operated Chain Drive: Stainless steel No. 10 chain rated to 90 pound breaking strength. Nickel plated chain shall not be accepted.
a. Drive sprocket and brake assembly shall have a minimum of four (4) wrap springs.
b. Assembly shall be fully mounted on steel support bracket which may be removed and reinstalled without effecting the roller shade limit adjustments.
c. Tension device shall be installed using a device that when not installed properly renders the shade partially inoperable.
4. Shade Brackets:
a. Shade hardware shall be constructed of minimum 1/16-inch thick plate steel.
b. Provide hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening.
c. Provide hardware capable for installation of a removable fascia. No exposed fastening devices of any kind.
d. Shade bands shall be adjustable without removing shade roller tube or hardware from window.
e. Brackets shall be fully integrated with all accessories.

2.3 SHADE FABRIC
A. Visually Transparent Single-Fabric Shade Cloth as indicated in the Finish Schedule.

PART III - EXECUTION

3.1 INSTALLATION
A. Install shades level, plumb and true in accordance with manufacturer's instructions including recommended support brackets and fasteners.
B. Install shades with adequate clearance to permit smooth operation of the shades. Demonstrate shades to be in smooth, uniform working order.

END OF SECTION C12492

DIVISION 15
SECTION C15000 - MECHANICAL
See Mechanical Drawings for HVAC Specifications
SECTION C15100 - PLUMBING
See Plumbing Drawings for Plumbing Specifications

DIVISION 16
SECTION C16000 - ELECTRICAL
See Electrical Drawings for Electrical Specifications

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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A-2005011993-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R ALL
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 05/20/2022
DRAWN BY Author
DESIGNED BY Designer

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-911

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO\02859_Summit Fair FSU_Remodel_ARC.rvt
7/12/2022 2:52:29 PM
02859-A-911-SPECIFICATIONS

DESIGN CRITERIA NOTES

1. CODE — 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS

2. GRAVITY LOADS

A. ROOF DEAD LOAD	MAIN ROOF - 17 PSF
B. ROOF LIVE LOAD	20 PSF
C. GROUND SNOW LOAD (Pg)	20 PSF

3. LATERAL LOADS

A. WIND LOADS

1. BASIC WIND SPEED (3 SECOND GUST) - ULTIMATE DESIGN WIND SPEED	109 MPH
2. WIND EXPOSURE CATEGORY	C
3. RISK CATEGORY	II
B. SEISMIC LOADS (SERVICE)	
1. 5% DAMPED MAPPED ACCELERATION PARAMETER (S_S)	0.099 g
2. 1 SEC PERIOD MAPPED ACCELERATION PARAMETER (S_1)	0.068 g
3. SITE CLASS	D
4. RISK CATEGORY	II
5. SEISMIC DESIGN CATEGORY	B

GENERAL NOTES:

1. STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODE LISTED IN THE DESIGN CRITERIA NOTES.

2. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF DEMOLITION, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER.

3. THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR ELEVATIONS, SLOPES, LOCATION OF DEPRESSED FLOOR AREAS, AND FLOOR OPENINGS. THESE ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT ARE SHOWN ON THE STRUCTURAL DRAWINGS INCIDENTALLY ONLY, AND NOT COMPLETELY. THEREFORE ALL CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION.

4. CONTRACTOR SHALL PROVIDE ALL OPENINGS FOR OTHER DISCIPLINES (ie. ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL) AND SHALL REFER TO THEIR DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL CHASES, SLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANGLE FRAMES AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

5. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ALL DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND OTHER TRADES' DRAWINGS PRIOR TO CONSTRUCTION. IF THE DISCREPANCIES ARE NOT CLARIFIED IN THE ADDENDA AT THE REQUEST OF THE CONTRACTOR, THEN THEY SHALL BE BROUGHT TO THE ATTENTION TO THE ARCHITECT AND ENGINEER DURING CONSTRUCTION FOR CLARIFICATIONS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION IN HIS BID.

6. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT STRUCTURES, PROPERTY, CONSTRUCTION CREW AND THE PUBLIC. TO PRESERVE THESE ADJACENT STRUCTURES AND PROPERTY FROM LATERAL AND VERTICAL DIFFERENTIAL SETTLEMENTS AND TO PROTECT THE PUBLIC, CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY SHORING, BRACING, NEEDLING, UNDERPINNING, OR SHEET PILING AND SHALL IMPLEMENT OSHA SAFETY REQUIREMENTS FOR ALL PHASES OF CONSTRUCTION.

7. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD NEW STRUCTURE FOR WIND AND CONSTRUCTION LOADS. THE TEMPORARY BRACING REMAIN UNTIL ALL ELEMENTS REQUIRED FOR STABILITY OF THE STEEL FRAME ARE COMPLETED.

8. WORK NOT INDICATED ON A PART OF THE STRUCTURAL DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATION, SHALL BE INCLUDED IN THE CONTRACTOR'S WORK.

9. DETAILS SHOWN AS TYPICAL ARE APPLICABLE TO ALL SIMILAR CONDITIONS.

10. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THE PROPOSAL. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.

11. PRIOR TO COMMENCEMENT OF WORK, DEVELOPMENT OF SHOP DRAWINGS AND OR FABRICATION OF COMPONENTS, CONTRACTOR SHALL INVESTIGATE AND VERIFY IN THE FIELD ALL CONDITIONS, DIMENSIONS, AND ELEVATIONS OF THE EXISTING CONSTRUCTION. ALL DISCREPANCIES BETWEEN FIELD-VERIFIED CONDITIONS, DIMENSIONS AND ELEVATIONS AND THOSE INDICATED ON THE DRAWINGS SHALL BE IMMEDIATELY MADE KNOWN TO THE ARCHITECT AND ENGINEER IN WRITING. THE USE OF (V.I.F.) OR (+/-) OR OTHER SIMILAR NOTES AT CERTAIN LOCATIONS ON THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR VERIFYING ALL CONDITIONS DESCRIBED ABOVE. CONTRACTOR SHALL COORDINATE THEIR FIELD MEASUREMENTS AND FINDINGS WITH THE NEW WORK.

12. INFORMATION REGARDING EXISTING CONSTRUCTION OR CONDITIONS MAY BE BASED ON AVAILABLE RECORD DRAWINGS WHICH MAY OR MAY NOT TRULY REFLECT EXISTING CONDITIONS. SUCH INFORMATION IS INCLUDED ON THE ASSUMPTION THAT IT MAY BE OF INTEREST TO THE CONTRACTOR, BUT THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.

13. ALL CONTRACTORS SHALL NOT "SCALE" DRAWINGS TO OBTAIN ANY MISSING INFORMATION OR TO INTERPRET ANY INFORMATION NOT SPECIFICALLY DIMENSIONED SINCE SOME DETAILS MAY NOT BE DRAWN TO SCALE FOR CLARIFICATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER FOR MISSING DIMENSIONS.

WOOD FRAMING NOTES:

1. ALL LUMBER SHALL BE SOUTHERN YELLOW PINE (SYP) NO. 1 / NO. 2 OR BETTER

2. HOLES ARE NOT TO BE CUT IN BEAMS, COLUMNS OR JOISTS UNLESS PREVIOUSLY APPROVED BY THE ENGINEER AND ONLY IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

3. ALL ENGINEERED WOOD PRODUCTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE PRODUCT TYPE AND GRADE, NER, ICBO, ES OR CCMC EVALUATION REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.

4. SUBMIT THE FOLLOWING TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION:
   PRODUCT DATA, INCLUDING DESIGN PROPERTIES, FOR ALL MANUFACTURED WOOD BEAMS AND COLUMNS

5. PRESSURE TREATED LUMBER SHALL BE USED WHERE INDICATED ON PLANS IN ALL EXTERIOR APPLICATIONS AND IN APPLICATIONS WHERE THE LUMBER IS IN CONTACT WITH THE GROUND. PRESSURE TREATED LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 1 GRADE. LUMBER SHALL BE TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLE (CBA) PRESERVATIVE.

6. FRAMING CONNECTORS AND FASTENERS FOR USE WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL. ALTERNATIVELY, BATCH/POST HOT-DIPPED GALVANIZED FASTENERS (ASTM A153) AND FRAMING CONNECTORS (ASTM A123) SHALL BE USED.

7. ALL NAILING IS TO BE IN ACCORDANCE WITH THE 2009 / 2012 INTERNATIONAL BUILDING CODE WOOD FASTENING SCHEDULE, TABLE 2304.9.1, UNLESS NOTED OTHERWISE.

8. ALL WOOD CONNECTORS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS WITH THE MAXIMUM NUMBER AND SIZE OF NAILS.

9. ALL MULTI-MEMBER BEAMS AND HEADERS SHALL BE GLUED & NAILED TOGETHER WITH (3) ROWS OF 16D NAILS @ 12" O.C. NAIL BOTH SIDES OF ALL 3-PLY MEMBERS.

10. ALL WOOD CONNECTORS ARE TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS WITH THE MAXIMUM NUMBER AND SIZE OF NAILS.

11. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.

13. ALL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE - NO EXCEPTIONS, UNLESS NOTED OTHERWISE.

CONCRETE AND FRAMEWORK NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING AMERICAN CONCRETE INSTITUTE PUBLICATIONS:

   ACI 301 ACI 304 ACI 311
   ACI 315 ACI 318 ACI 347

2. CONCRETE SHALL BE AS FOLLOWS:

FOOTINGS AND FOUNDATION WALLS	NMWT	(145 PCF)	F'C = 3,000 PSI
SLABS-ON-GROUND	NMWT	(145 PCF)	F'C = 4,000 PSI
RETAINING WALLS	NMWT	(145 PCF)	F'C = 4,000 PSI

3. ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR-ENTRAINED. WATER REDUCING PLASTICIZING ADMIXTURES MAY BE USED, PENDING APPROVAL OF THE ARCHITECT.

4. NO CALCIUM CHLORIDE OR CHLORIDE-ION PRODUCING ADMIXTURE SHALL BE USED IN ANY CONCRETE.

5. FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN THE COMPLETED BUILDING SHALL BE CONSTRUCTED FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE.

6. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CURBS AND SLAB DEPRESSIONS, IF ANY, AND DESCRIBE THE CONCRETE PLACEMENT SEQUENCING. ALL CURBS SHALL BE REINFORCED WITH AT LEAST 1-#4 CONTINUOUS AND #3 @ 16" C/C DOWELS TO THE STRUCTURE BELOW, UNLESS SHOWN OTHERWISE.

7. ALL CONSTRUCTION JOINTS SHALL BE WIRE-BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN POURS.

8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS, CURBS AND FOR ALL WATERPROOFING AND/OR DAMPPROOFING DETAILS. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL WALL AND/OR SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. SLOPE CONCRETE SLABS, WHERE REQUIRED, TO FLOOR DRAINS SHOWN ON THE ARCHITECTURAL AND PLUMBING DRAWINGS.

10. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:

FOOTINGS	3" CLEAR, SIDES, AND BOTTOM
PIERS	2" CLEAR, SIDES
WALLS	2" CLEAR, SIDES
SLABS	3/4" CLEAR

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE "STEEL CONSTRUCTION MANUAL" OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION, FOURTEENTH EDITION (LATEST PUBLICATION).

2. THE STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

   A. STRUCTURAL ROLLED W-SHAPES: ASTM A992.
   B. ALL C-SHAPES, MC-SHAPES, BARS, PLATES AND ANGLES: ASTM A36
   C. HOLLOW STRUCTURAL SECTION (HSS) SQ. & RECT.: ASTM A500, GRADE B
   D. STRUCTURAL PIPES: ASTM A53, GRADE B
   E. HIGH STRENGTH CONNECTION BOLTS: ASTM A325, TYPE SC OR N.
   F. ANCHOR BOLTS: ASTM F-1554 GRADE 36.
   G. HEAVY HEX NUTS: ASTM A563
   H. HARDEN WASHERS: F436

3. ALL STEEL SHALL BE COATED WITH SHOP GREY PRIMER UNLESS OTHERWISE NOTED.

4. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED. STRUCTURAL BOLTS EXPOSED TO WEATHER SHALL EITHER HOT-DIP GALV. OR SHERARDIZED.

5. ALL SEALED HOLLOWED SECTIONS AND PIPES EXPOSED TO WEATHER SHALL HAVE A VENT HOLE LOCATED AWAY FROM VIEW.

6. DESIGN AND DETAIL OF ALL CONNECTIONS SHALL BE ACCORDING TO AISC, ALLOWABLE STRESS DESIGN METHOD. ALL CONNECTIONS SHALL BE BOLTED WITH HIGH-STRENGTH BOLTS OR WELDED, UNLESS NOTED OTHERWISE.

7. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1, STRUCTURAL WELDING CODE.

8. ALL WELDER, TACKER AND WELDING OPERATOR SHALL BE CERTIFIED BY TEST WITHIN THE PAST SIX MONTHS TO PERFORM THE TYPE OF WORK REQUIRED IN CONFORMANCE WITH THE AWS D1.1, STRUCTURAL WELDING CODE

9. ALL WELDING ELECTRODES WILL BE E70XX.

10. FIELD WELDING OF STRUCTURAL MEMBERS, NOT INDICATED ON THE STRUCTURAL DRAWINGS IS NOT PERMITTED.

11. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD SHALL NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN EACH CASE BY THE ENGINEER.

12. UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS, ALL SIMPLY SUPPORTED BEAM-TO-COLUMN AND BEAM-TO-BEAM CONNECTIONS SHALL BE DOUBLE ANGLE (5/16" MINIMUM THICKNESS) IN CONFORMANCE WITH THE AISC MANUAL. BOLT HOLES SHALL BE EITHER STANDARD HOLES OR SHORT HORIZONTAL SLOTTED HOLES. MINIMUM OF TWO ROWS OF BOLTS.

13. SHOP CONNECTIONS MAY BE BOLTED OR WELDED, UNLESS THE CONNECTION METHOD IS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

14. UNLESS OTHERWISE NOTED, ALL WELD SIZES NOT SHOWN IN DETAIL HEREIN SHALL BE THE MINIMUM REQUIRED SIZE BASED ON THICKNESS OF THICKER PART PER AISC, TYPICAL EXCEPT FOR SPLICE CONNECTIONS.

15. ALL SPLICE CONNECTIONS, EITHER WELDED OR BOLTED, SHALL DEVELOP FULL STRENGTH OF THE MEMBER OR COMPONENTS BEING CONNECTED.

16. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

17. CONNECTIONS FOR NON-COMPOSITE BEAMS AND GIRDERS SHALL BE DESIGNED FOR 1/2 THE MAXIMUM UNIFORM LOAD CARRYING CAPACITY OF THE MEMBER.

18. TENSION OR COMPRESSION CONNECTIONS SHALL DEVELOP THE FORCE DUE TO THE DESIGN LOAD, BUT NOT LESS THAN 100 PERCENT OF THE TENSION STRENGTH OF THE MEMBER WHERE NO DESIGN LOAD IS GIVEN. DESIGN FORCES HAVE BEEN FACTORED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND NO STRESS INCREASE IS PERMITTED WHEN DESIGN FORCE IS BASED ON TENSION CAPACITY ON MEMBER, LOAD IS TO BE APPLIED AS A TENSION OR COMPRESSION FORCE.

19. ANY ALTERATIONS MADE BY THE DETAILER ON THE STRUCTURAL STEEL SHOP DRAWINGS TO SCHEMATIC OR COMPLETELY DETAILED CONNECTIONS SHOWN ON THE CONTRACT DRAWINGS MUST BE CLEARLY IDENTIFIED BY CLOUDING OR BY DIRECT NOTE ON THE SHOP DRAWING BY THE DETAILER PRIOR TO SUBMISSION TO THE ENGINEER.

20. ANY MEMBER SIZES SHOWN ON THE PLANS AND CURRENTLY LISTED IN THE AISC MANUAL, WHICH ARE NOT CURRENTLY AVAILABLE MUST BE BROUGHT TO THE ARCHITECT AND ENGINEER ATTENTION PRIOR TO AWARD OF THE STEEL CONTRACT. NO CLAIM FOR ADDITIONAL COST WILL BE ACCEPTED AFTER THE AWARD, FOR MEMBER/BUILT UP MEMBER SUBSTITUTIONS FOR THESE SIZES.

21. THE CONTRACTOR SHALL SUPPLY ALL PLATES, CLIPS, SEAT ANGLES, CONNECTIONS ETC., AS REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF SUCH ITEMS ARE NOT EXPLICITLY CALLED FOR ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

22. THE CONTRACTOR SHALL PROVIDE ALL EMBEDDED PLATES, SLEEVES, BOX-OUTS, CONDUITS, ETC., AS REQUIRED BY OTHER TRADES IN THE CONCRETE STRUCTURE.

23. STEEL DETAILER SHALL IMPLEMENT OSHA SAFETY STANDARDS FOR STEEL ERECTIONS.

24. FURNISH AND INSTALL ANCHOR BOLTS WITH ONE WASHER (PER ASCE TABLE 14-2) AND HEAVY HEX NUT, SETTING PLATES (1/4" THICK LEVELING PLATE) AND EMBEDDED PLATES, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

25. ALL STRUCTURAL STEEL INCLUDING BASE PLATE AND TOPS OF ANCHOR BOLTS TO BE EXPOSED TO SOIL OR TO BE ENCASED IN CONCRETE ARE TO BE COATED WITH AN APPROVED COAL TAR EPOXY. 16 MILS MINIMUM THICKNESS.

26. ALL COLUMN CAP PLATES SHALL BE 1/2" THICK MINIMUM EXCEPT AS OTHERWISE NOTED.

27. PROVIDE INCLINED PLATES FOR ALL SLOPING BEAMS TO ENSURE TRUE BEARING.

28. PROVIDE FITTED STIFFENER PLATES EACH SIDE OF BEAM WEB AT CENTERLINE OF SUPPORT FOR ALL CANTILEVERED BEAMS, UNDER SUPPORTED COLUMNS AND POSTS UP. STIFF PLATE THICKNESS SHALL BE SAME THICKNESS AS THE COLUMN WALLS/FLANGES BUT NO SMALLER THAN 3/8" THICK.

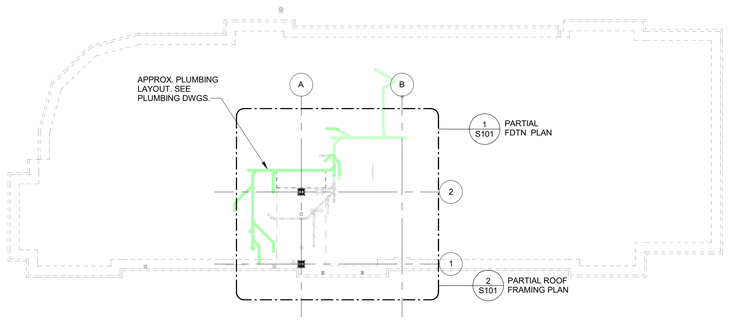
29. TOP OF STEEL (T.O.S.) ELEVATIONS INDICATED ON THE DRAWINGS REFERS TO TOP OF TOP-BEAM FLANGE.

30. STEEL BEAMS PARALLEL TO JOISTS SHALL BE AT THE SAME ELEVATION AS THE JOISTS, UNLESS OTHERWISE NOTED.

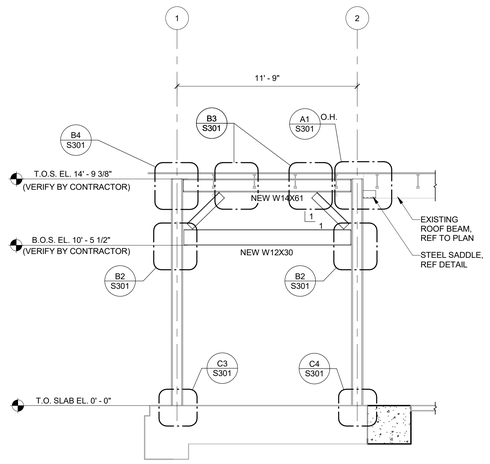
31. BRACING MEMBERS SHALL BE DETAILED TO AVOID ECCENTRIC CONNECTIONS.

32. ALL MEMBERS OR PORTIONS OF THAT ARE FIELD CUT/DRILLED HOLES AND OR ARE TO BE WELDED SHALL BE FREE OF OIL, PAINT AND DEBRIS DOWN TO CLEAN STEEL. FIELD WELDS SHALL BE FREE OF SLAG AND CLEAN.

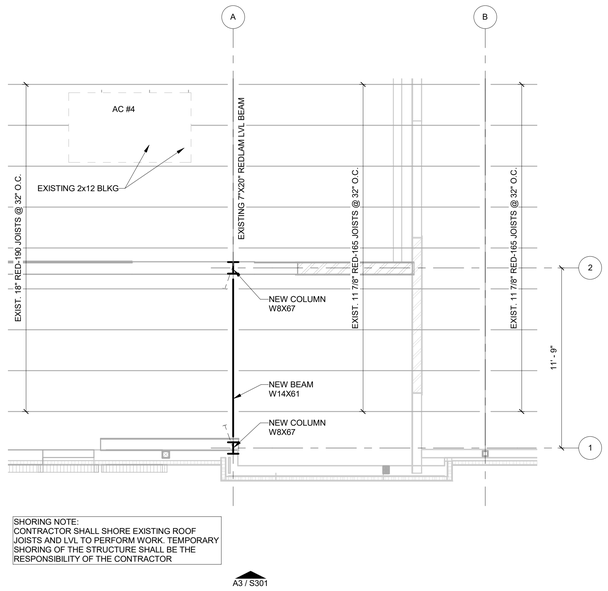
33. ALL TREATED SURFACES (FIELD CUTS/DRILLED HOLES & WELDS) THAT ARE EXPOSED TO THE ELEMENTS SHALL BE PAINTED WITH 2 COATS OF ZINC RICH (GALVANIZED) PAINT.



KEY PLAN



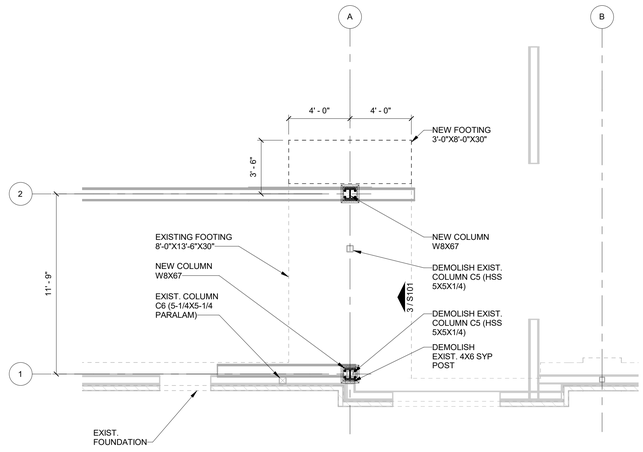
3 ELEVATION @ STEEL FRAME
1/4" = 1'-0"



SHORING NOTE:
CONTRACTOR SHALL SHORE EXISTING ROOF JOISTS AND LVL TO PERFORM WORK. TEMPORARY SHORING OF THE STRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

A3 / S301

2 PARTIAL ROOF FRAMING PLAN
1/4" = 1'-0"



A3 / S301

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

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

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5200 Buffington Road
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CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

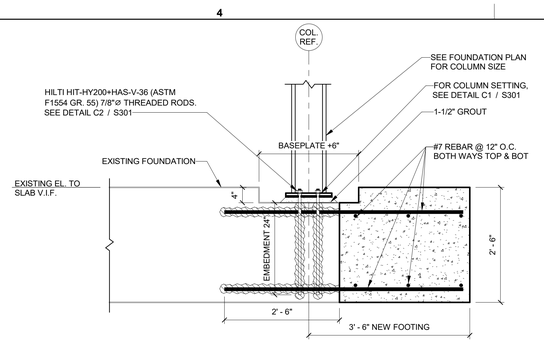
CONSULTANT PROJECT # 02859
DATE 07/12/2022
DRAWN BY TH DESIGNED BY ZHZ

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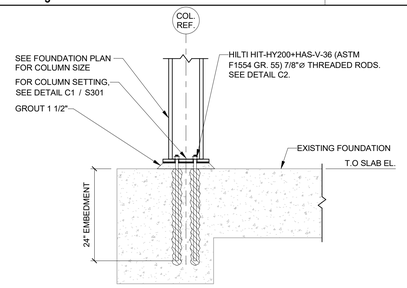
SHEET: PARTIAL FOUNDATION AND FRAMING PLANS
SHEET NUMBER: **S101**

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02859-S101-PARTIAL FOUNDATION AND FRAMING PLANS

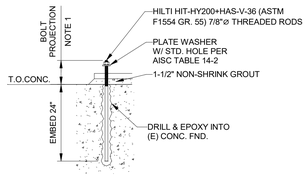
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Development Services Department
Lee's Summit, Missouri
07/18/2022



C4 INTERIOR COLUMN FOUNDATION DETAIL
3/4" = 1'-0"



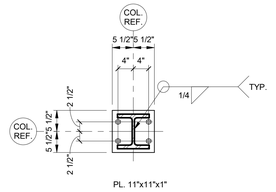
C3 INTERIOR COLUMN FOUNDATION DETAIL
3/4" = 1'-0"



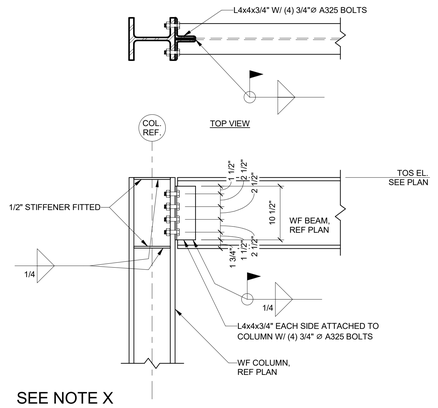
NOTES:
1. BOLT PROJ. WILL VARY IF THE SETTING BED THK., PL. THK., & OR ANC. BOLT NUT & WASHER THK INCREASE. AJUST ACCORDINGLY SO THAT THE DIST. FROM TOP OF BOLT TO TOP OF NUT IS AT LEAST 1 1/2".
2. FOLLOW MANUF. INSTALLATION PROCEDURED FOR THE DRILLING AND EPOXYING OF ANCHOR RODS.
3. SUGGESTED FRAME INSTALLATION PROCEDURE: PLACE COLUMNS AND BEAM. INSTALL WEDSGES TO SUPPORT AND PUSH FRAME INTO PLACE. INSTALL ANCHOR RODS THEN GROUT SOLID UNDER BASE PLATE. TIGHTEN NUTS.
4. FOLLOW MANUF. INSTALLATION DOCUMENTS.

C2 ANCHOR BOLT - DRILL & EPOXY
3/4" = 1'-0"

NOTE X:
ANGLES MUST BE BOLTED TO COLUMN FLANGES. DO NOT WELD TO COLUMN. ADJUSTIBILITY SHALL BE AT BEAM WEB WELDS.



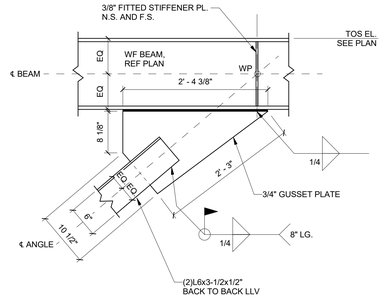
C1 BASE PL
3/4" = 1'-0"



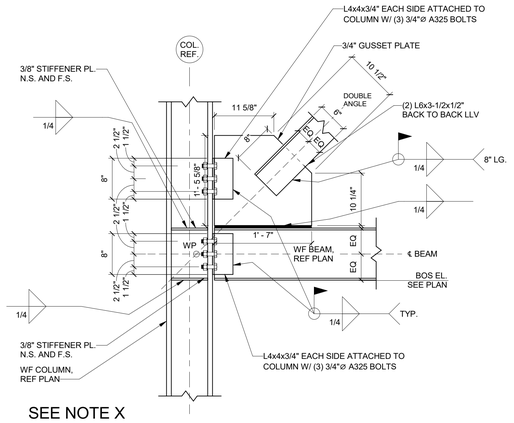
SEE NOTE X

B4 COLUMN TO BEAM CONNECTION
1" = 1'-0"

NOTE:
GENERAL CONTRACTOR SHALL INSTALL FIRE BLANKET TO PROTECT EXISTING WOOD FRAMING FROM FIRE SPARKS DURING FIELD WELDING OPERATION. THE WELDER SHALL HAVE A FIRE WATCH AND EXERCISE EXTREME CAUTION DURING WELDING TO PREVENT ANY FIRE SPREAD.

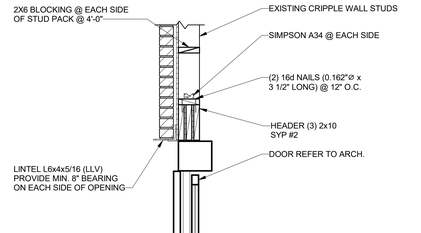


B3 BRACE TO BEAM CONNECTION
1" = 1'-0"

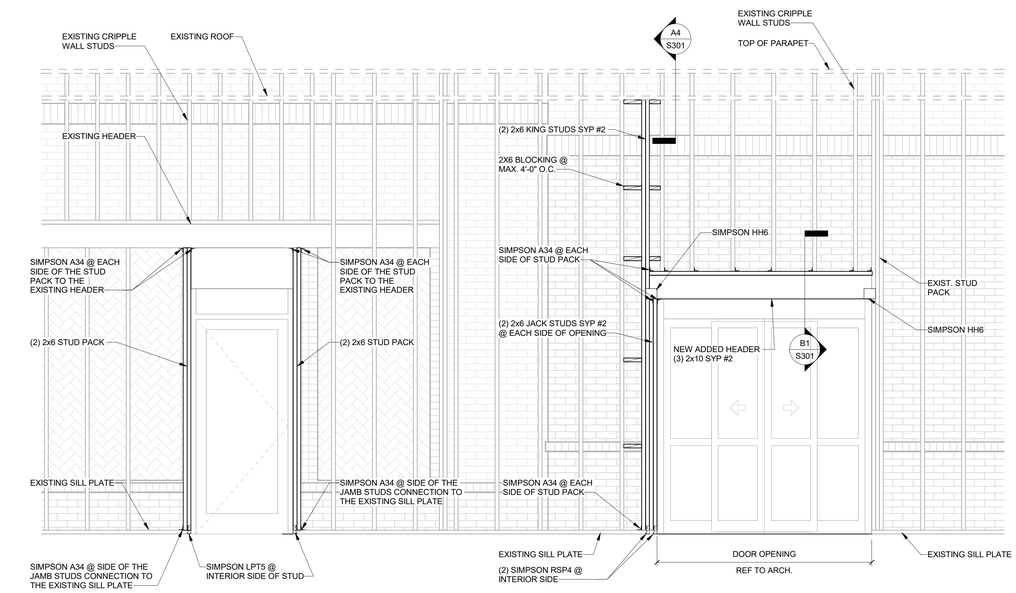


SEE NOTE X

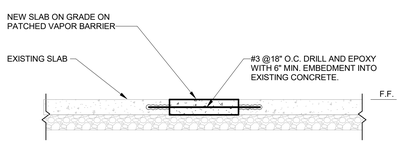
B2 COLUMN TO BRACE CONNECTION
1" = 1'-0"



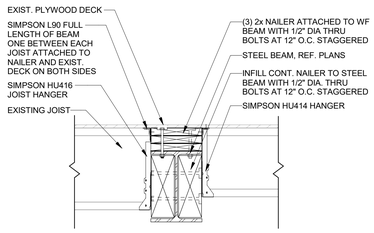
B1 SECTION @ HEADER
3/4" = 1'-0"



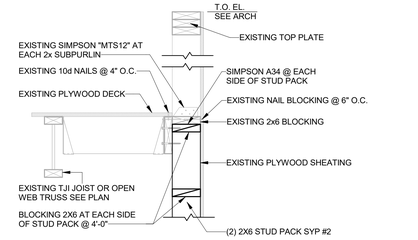
A3 NEW DRIVE-THRU SLIDING DOOR FRAMING AND NEW STOREFRONT DOOR FRAMING
1/2" = 1'-0"



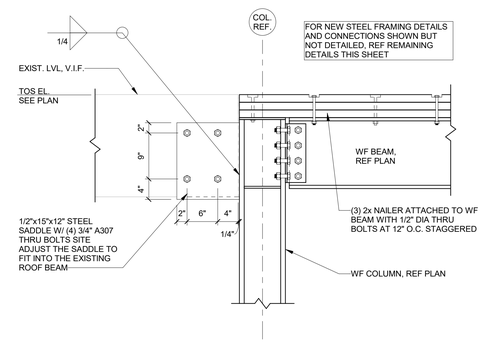
A5 TYPICAL SLAB REPAIR DETAIL
3/4" = 1'-0"



A2 EXISTING JOIST TO BEAM CONNECTION
1" = 1'-0"



A4 SECTION @ ROOF
1" = 1'-0"



A1 SECTION @ STEEL FRAME
1" = 1'-0"

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LUNGSHEN TSAO
NUMBER PE-2010003346

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PE-2010003346
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E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08 N-SML-R
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 02859
DATE 07/12/2022
DRAWN BY TH
DESIGNED BY ZHZ

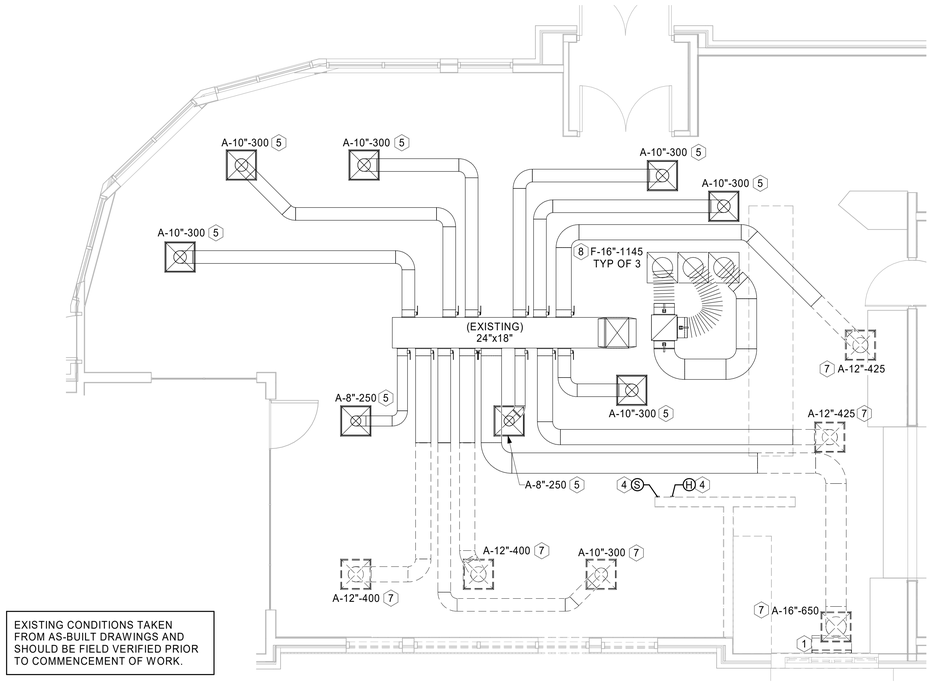
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SHEET
FOUNDATION AND FRAMING SECTIONS

SHEET NUMBER
S301

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7/12/2022 12:12:33 PM
02859-S301-FOUNDATION AND FRAMING SECTIONS

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Development Services Department
Lee's Summit, Missouri
07/18/2022



EXISTING CONDITIONS TAKEN FROM AS-BUILT DRAWINGS AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK.

2 MECHANICAL DEMOLITION FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
4. DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
5. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
6. SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.
7. DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVED PRIOR TO STARTING WORK. DE-ENERGIZED CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
8. MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ALL ROOFTOP UNITS AT END OF PROJECT AND PRIOR TO RE-OPENING. MECHANICAL CONTRACTOR TO PROVIDE PROPOSAL TO CORRECT EXISTING ROOFTOP UNITS PUNCH ITEMS IDENTIFIED.

KEY NOTES

1. REMOVE EXISTING AIR CURTAIN AND ASSOCIATED CONTROLS.
2. NEW AIR DOOR. REFER TO SCHEDULE ON M101 AND CONTROLS DIAGRAM ON M102.
3. NEW WALL MOUNTED DUCTLESS SPLIT SYSTEM "AHU#1". FINAL LOCATION TO BE COORDINATED WITH CLEARANCE TO EXISTING EQUIPMENT. ROUTE REFRIGERANT PIPING TO CONDENSING UNIT "CU#1" LOCATED ON THE ROOF. ROUTE 3/4" CONDENSATE PIPING DOWN THE WALL AND DISCHARGE AT EXISTING DRAIN. REFER TO PLUMBING DRAWINGS FOR THE DRAIN LOCATION.
4. RELOCATE EXISTING SENSOR. REFER TO 1/M101 FOR NEW LOCATION.
5. EXISTING SUPPLY DIFFUSER TO REMAIN.
6. CONNECT TO EXISTING.
7. RELOCATE EXISTING SUPPLY DIFFUSER. MODIFY DUCTWORK AS NEEDED. REFER TO 1/M101 FOR NEW DUCTWORK LAYOUT AND LOCATION.
8. EXISTING RETURN GRILLE TO REMAIN.
9. BALANCE SYSTEM TO INDICATED AIRFLOWS SHOWN 1/M101.

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.)
EC	ELECTRICAL CONTRACTOR	B/G	BELOW GRADE
MC	MECHANICAL CONTRACTOR	T	THERMOSTAT

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1765	2670 FPM	10 kW	3/4 HP	DRIVE THRU	CHA-1-48E	Powered Aire	1,2,3,4

NOTES
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

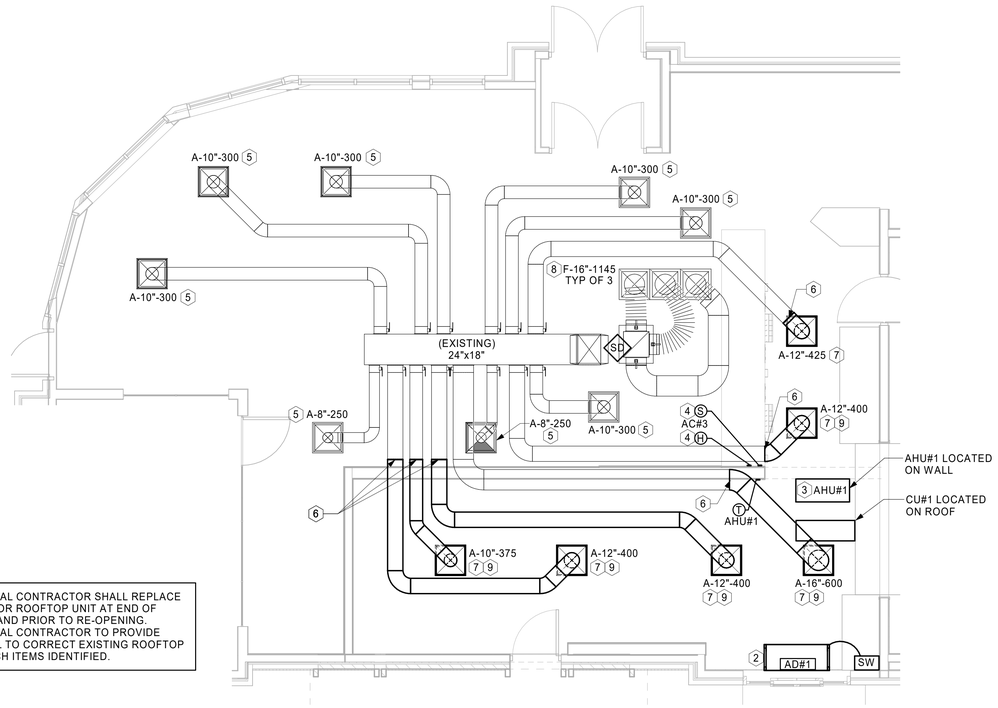
REMARKS
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL AIR CURTAIN WIRING DIAGRAM.
4. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL 4" FROM THE WALL.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		EFFICIENCIES	FAN SECTION (CFM)	ELECTRICAL DATA			R410A MODEL		MFGR
	MIN	MAX	SEER	SUPPLY	CIRCUIT AMPACITY	MOCP	VOLTAGE	AHU	CU	
AHU#1 / CU#1	16.0	36.0	16.2	670-850	25.0	40.0	208/1/60	PKA-A36KA7	PUZ-HA36NHA5	MITSUBISHI

NOTES
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TRANE/MITSUBISHI COMPANY FOR THE SPLIT SYSTEM HEAT PUMP. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TRANE/MITSUBISHI COMPANY. CONTACT CFA@TRANE.COM OR CALL 866-986-4822 FOR PRICING AND AVAILABILITY; SCOTT ROWLEY/TRANE CAN ALSO BE REACHED DIRECTLY AT 630-200-7155. SPLIT SYSTEMS NOT PURCHASED THRU TRANE/MITSUBISHI COMPANY WILL NOT BE ACCEPTED.

REMARKS
1. ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
2. MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
3. PROVIDE ENGRAVED PLASTIC LABEL AT AHU#1 AND CU#1 WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
4. PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
5. PROVIDE AND MOUNT THERMOSTAT (TAR-CT01MAU-SB) ON WALL NEXT TO POWERED AIRE DOOR CONTROL PANEL. USE TWO WIRE, STANDARD, NON-POLAR CONTROL WIRE TO CONNECTOR TB15 ON INDOOR UNIT CONTROLLER, PER MANUFACTURER INSTRUCTIONS. PROGRAM THERMOSTAT AND SET CONTROLS TO MATCH DRIVE-THRU RTU SETPOINTS (OCCUPIED HEATING AND COOLING TEMPERATURES).
6. IF FEASIBLE, PROVIDE PAC-SE55RA-E CONNECTOR AT INDOOR UNIT (CONNECTOR CN32), WIRE ORANGE AND RED WIRES TO SPARE POLE RELAY R-1 IN SUNCOAST T-500 PANEL (TERMINALS 11 AND 7 RESPECTIVELY) AND CAP THE BROWN WIRE. THIS CONTROL STRATEGY IS INTENDED TO MATCH MINI-SPLIT'S ON/OFF STATUS TO OCCUPIED/UNOCCUPIED STATUS OF THE BUILDING RESPECTIVELY. REMAINING CONTROL IS LEFT UP TO THE UNIT'S CONTROLLER SCHEDULE AND OVERRIDE.
7. IF SAMSUNG UNIT OR MITSUBISHI NTX SERIES UNITS ARE USED AS AN ALTERNATIVE. REFER TO DESIGN NOTE 2020-024.



MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ROOFTOP UNIT AT END OF PROJECT AND PRIOR TO RE-OPENING. MECHANICAL CONTRACTOR TO PROVIDE PROPOSAL TO CORRECT EXISTING ROOFTOP UNIT PUNCH ITEMS IDENTIFIED.

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

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STATE OF MISSOURI
GREG J. SCHLUTERMAN
NUMBER PE-2012029657
PROFESSIONAL ENGINEER

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GREG J. SCHLUTERMAN, P.E.
PE-2012029657
HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 Northwest Blue Parkway
Lee's Summit, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08_N-SML-R
RELEASE:
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OTP
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50043
PRINTED FOR	OTP
DATE	07/08/2022
DRAWN BY	BLJ

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SHEET
MECHANICAL - FLOOR PLAN, NOTES, AND SCHEDULES
SHEET NUMBER
M-101

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

1. SECTION C15000 - MECHANICAL 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 HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.

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 NOT USED.

2.02 DUCTWORK

A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE 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 INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. 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. NOT USED.

K. TRUNK DUCTS 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. SEE TAKE-OFF DETAIL ON DRAWING M-401.

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.

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 AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

Q. RADIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO; R=W PER FIGURE NO. 4-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

R. 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 NOT USED

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 VOLATAGE CONNECTIONS.

3.02 NOT USED

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.

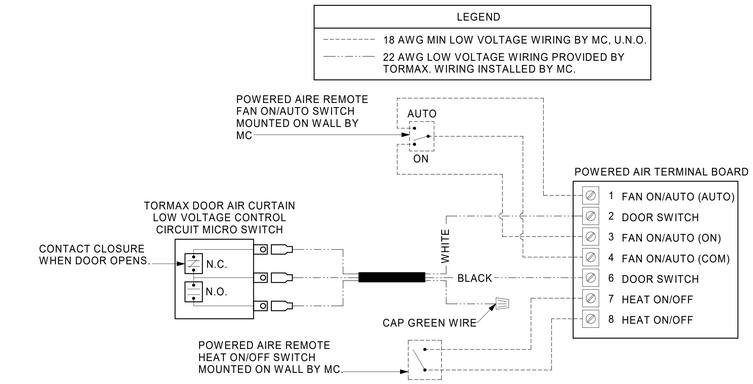
B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.

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.

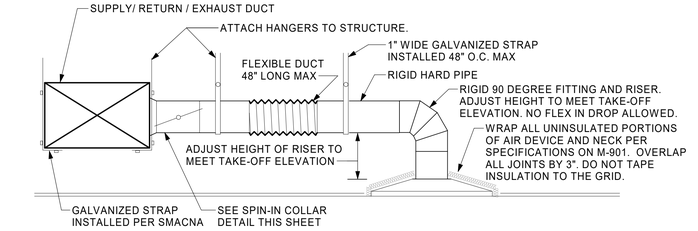
D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...

E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.



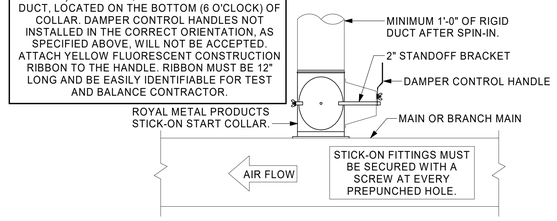
1 AIR CURTAIN WIRING DIAGRAM
NOT TO SCALE



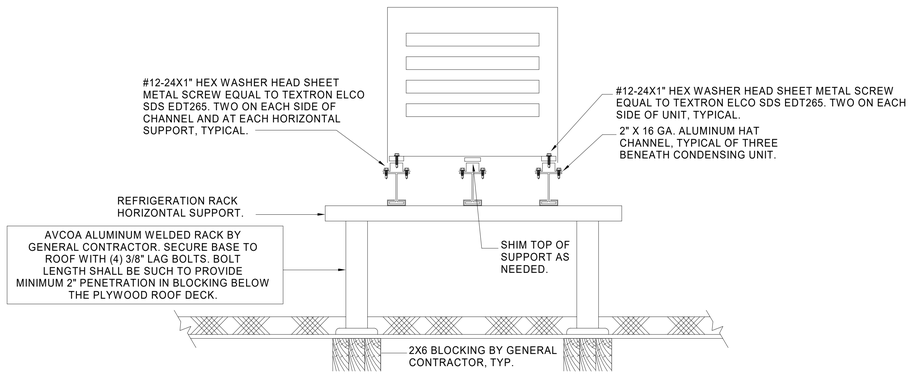
2 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE

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.



4 START COLLAR
NOT TO SCALE



3 CONDENSING UNIT TIE DOWN DETAIL
NOT TO SCALE

Chick-fil-A
5200 Buffington Road
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STATE OF MISSOURI
GREG J. SCHLUTERMAN
NUMBER PE-2012020657
PROFESSIONAL ENGINEER

2022.07.12 17:36:04-05'00'
GREG J. SCHLUTERMAN, P.E.
PE-2012020657
HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 Northwest Blue Parkway
Lee's Summit, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08_N-SML-R
RELEASE:
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OTP

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50043
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SHEET
MECHANICAL DETAILS, AND SPECIFICATIONS

SHEET NUMBER
M-102

BIM 360://MO_02859_ Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_Remodel_MEC.rvt
7/12/2022 4:50:56 PM
30-02859-M-102-MECHANICAL DETAILS, AND SPECIFICATIONS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

GENERAL NOTES

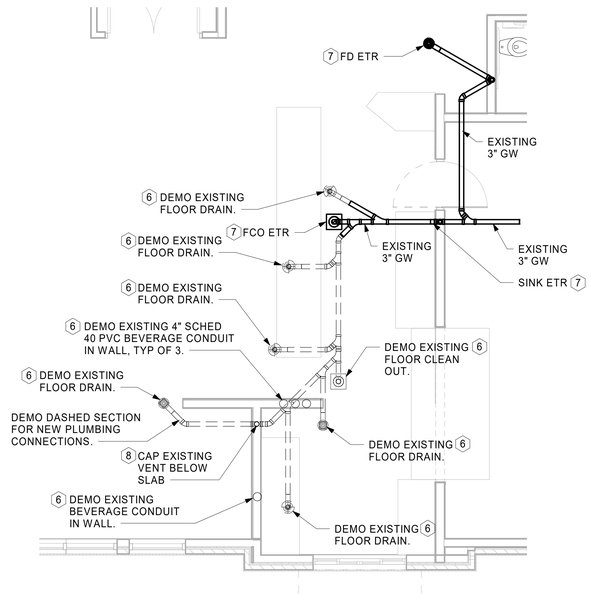
1. COORDINATE ABOVE CEILING PIPING LOCATIONS AND ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY.
2. INSTALL ALL PIPING TIGHT TO STRUCTURE.
3. SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
4. AT 4" CONDUIT DROPS IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION, FALL, DIRECTION OF FLOW AND CONNECTING INVERTS, PRIOR TO COMMENCING WORK. NOTIFY CHICK-FIL-A CONSTRUCTION REPRESENTATIVE IF EXISTING MAJOR DISCREPANCIES IN ROUTING OF SERVICE LINES ARE DISCOVERED IN FIELD.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE DURING BID PHASE, WITH EXISTING DRAWINGS PROVIDED BY THE OWNER IN ORDER TO DETERMINE THE TRUE AS-BUILT CONDITIONS OF THE POTABLE WATER, SANITARY, WASTE, VENT, AND OTHER PIPING SYSTEMS.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, STORING, AND RELOCATING EXISTING PLUMBING EQUIPMENT. PLUMBING CONTRACTOR TO COORDINATE DISCONNECTING OF EXISTING EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND LEVELING OF FLOOR DEPRESSIONS IN AREAS WHERE EXISTING FLOOR DRAINS, CLEANOUTS AND/OR OTHER FLOOR ITEMS ARE BEING DEMOLISHED, ABANDONED, OR RELOCATED.

KEY NOTES

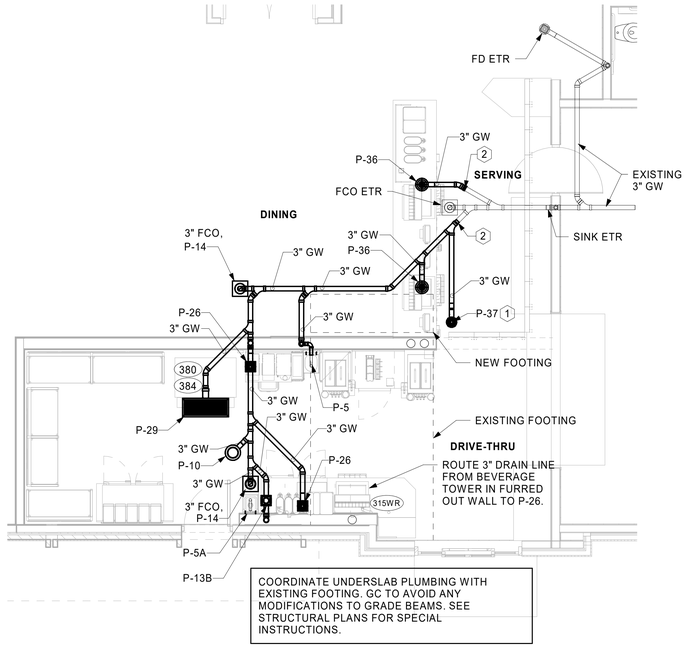
1 PROVIDE TRAP SEAL PROTECTOR P-26A.
2 CONNECT TO EXISTING.
3 1/2" FW TO P-24 & P-34 AT TWO TEA BREWERS AND TWO COFFEE MAKERS. REFER TO 6/P102.
4 PROVIDE NEW 3/4" HW AND 1/2" HWR BACK TO WATER HEATER. REFER TO DETAIL 3/P102.
5 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE RISER DIAGRAM 2/P-102.
6 REMOVE ASSOCIATED PIPING, FLOOR DRAIN, AND/OR CLEAN OUT WITH DASHED LINES AND CAP AT MAIN.
7 EXISTING TO REMAIN.
8 REMOVE VENT PIPING IN WALL AND CAP AT MAIN.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

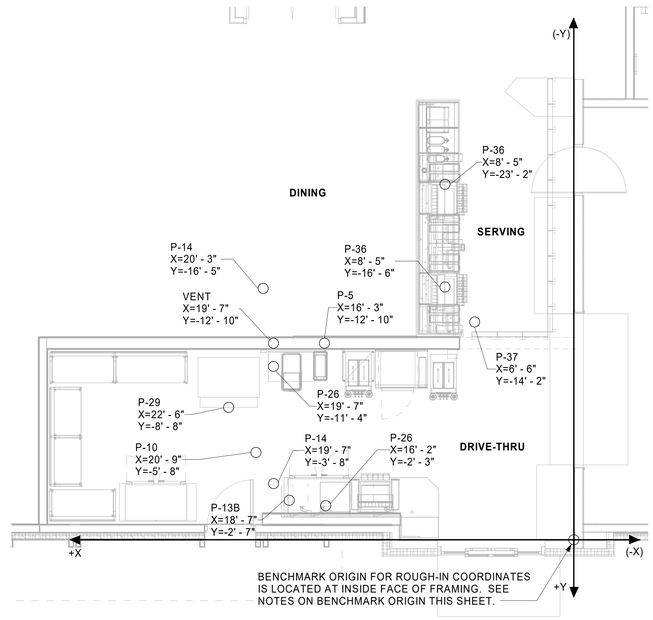
1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE INSIDE FACE OF FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN ON THE ADJACENT PLAN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN..
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAIL "TYPICAL SECTION @ EXTERIOR WALL" FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



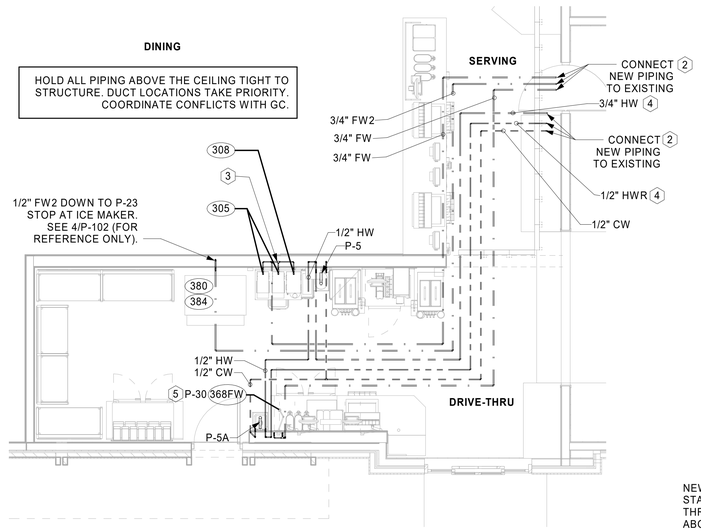
1 PLUMBING DEMOLITION PLAN
1/4" = 1'-0"



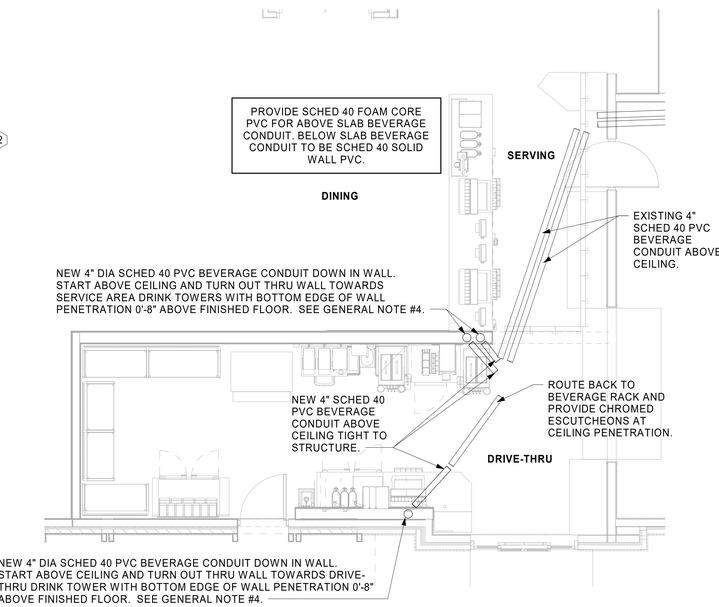
2 BELOW SLAB PLUMBING PLAN
1/4" = 1'-0"



3 SLAB ROUGH-IN PLAN
1/4" = 1'-0"



4 WATER PIPING PLAN PLUMBING
1/4" = 1'-0"



5 BEVERAGE CONDUIT PIPING PLAN
1/4" = 1'-0"

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STATE OF MISSOURI
GREG J. SCHLUTERMAN
NUMBER PE-2012026657
PROFESSIONAL ENGINEER
GREG J. SCHLUTERMAN, P.E.
2022.07.12 17:36:11 05'00'
HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION
690 Northwest Blue Parkway
Lee's Summit, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08_N-SML-R
RELEASE:
PRINTED FOR OTP

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50043
PRINTED FOR	OTP
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SHEET
PLUMBING FLOOR PLANS

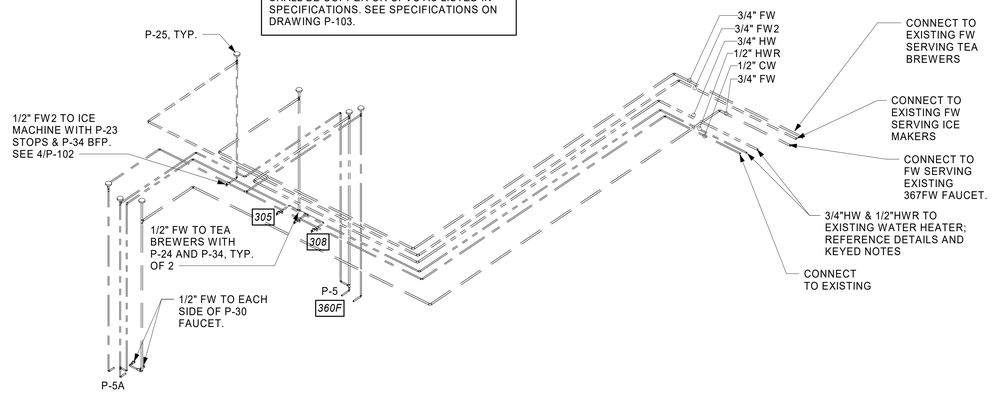
SHEET NUMBER
P-101

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_Remodel_PLB.rvt
7/12/2022 5:04:29 PM
40-02859-P-101-PLUMBING FLOOR PLANS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

XXX KITCHEN EQUIPMENT NUMBER. SEE KITCHEN EQUIPMENT SCHEDULE 2/P-103 FOR EQUIPMENT DESCRIPTIONS.

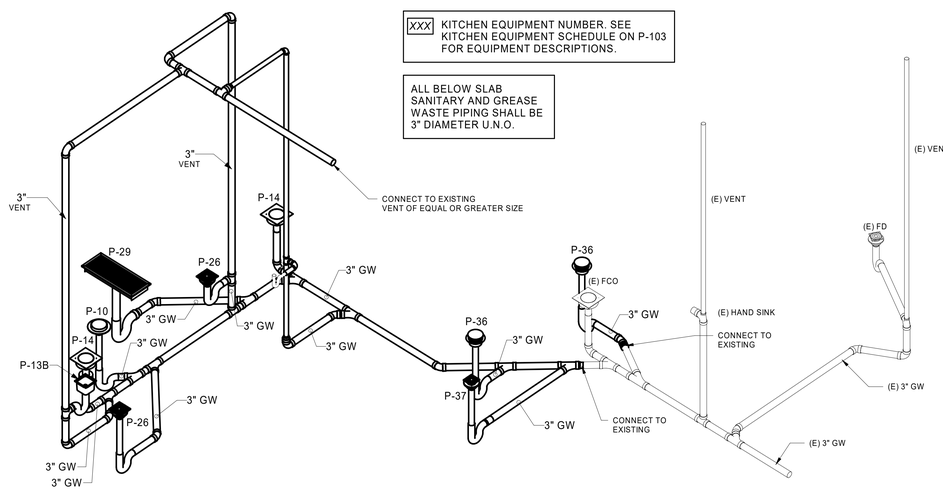
UNLESS NOTED OTHERWISE, WATER PIPING SHALL BE COPPER OR CPVC AS LISTED IN SPECIFICATIONS. SEE SPECIFICATIONS ON DRAWING P-103.



ALL VENT PIPING SHALL BE 2" DIAMETER U.N.O.

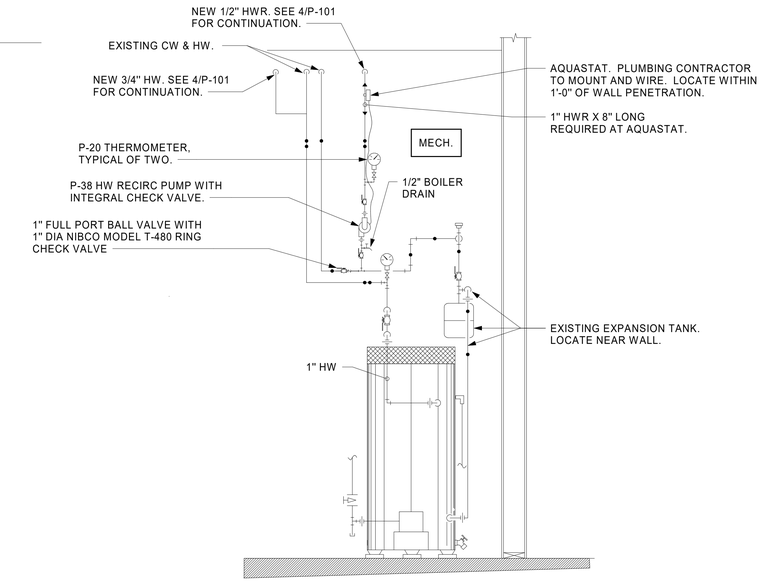
XXX KITCHEN EQUIPMENT NUMBER. SEE KITCHEN EQUIPMENT SCHEDULE ON P-103 FOR EQUIPMENT DESCRIPTIONS.

ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

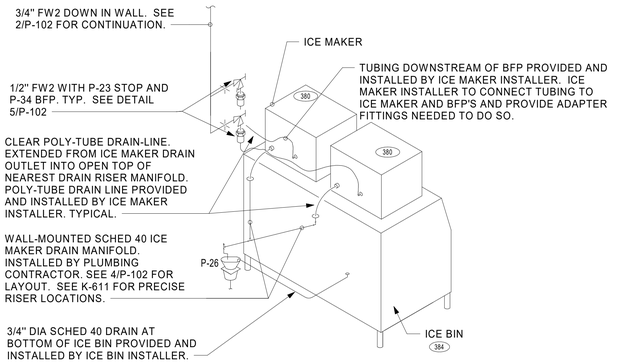


1 WASTE RISER DIAGRAM

2 WATER RISER DIAGRAM

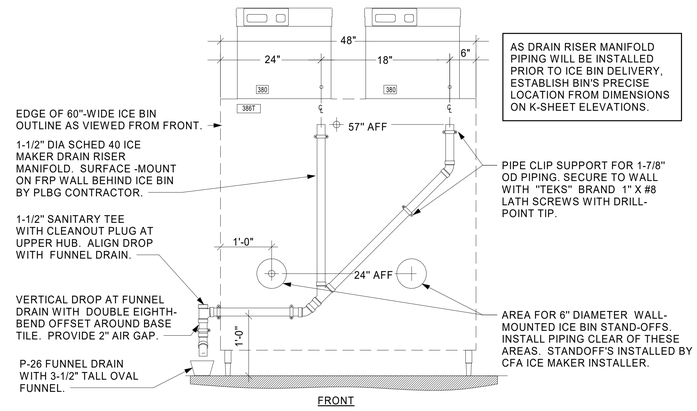


3 PIPING AT WATER HEATER
NOT TO SCALE



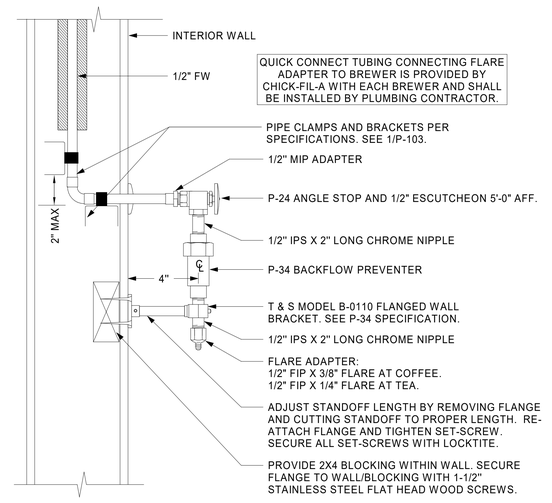
4 ICE MACHINE PIPING
NOT TO SCALE

DRAIN RISER LOCATIONS MEASURED FROM EDGE OF ICE BIN. VERIFY ICE BIN WIDTH AND PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.



AS DRAIN RISER MANIFOLD PIPING WILL BE INSTALLED PRIOR TO ICE BIN DELIVERY, ESTABLISH BIN'S PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.

5 ICE MAKER DRAIN ON WALL
NOT TO SCALE



6 COFFEE & TEA BREWER STOP & BFP
NTS

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STATE OF MISSOURI
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2022.07.12 17:36:39 05'00'
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 Northwest Blue Parkway
Lee's Summit, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08_N-SML-R
RELEASE:
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50043
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DATE	07/08/2022
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SHEET
PLUMBING RISERS DIAGRAMS AND DETAILS

SHEET NUMBER
P-102

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_Remodel_PLB.rvt
7/12/2022 5:04:32 PM
40-02859-P-102-PLUMBING RISERS DIAGRAMS AND DETAILS

1. SECTION C15100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

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 WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED 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. NIPPLES, ELBOWS, AND 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. U.N.O., 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. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK 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.

O. 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 RIDGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

P. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

Q. 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 (C15100)

2.01 TRENCHING (C15100)

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 (C15100)

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 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" 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. 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.

K. 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.

L. 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.

2.03 TESTING (C15100)

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.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)

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. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

NATIONAL ACCOUNTS

1. TOTO VALVES AND FIXTURES (NO SUBSTITUTIONS). HAINES, JONES & CADBURY LLC. (HJC DISTRIBUTORS). PLEASE CONTACT HJC-CFA CUSTOMER SERVICE REPRESENTATIVE AT (800) 459-7099 OR VIA E-MAIL AT: **CF@HJCINC.COM** FOR NATIONAL ACCOUNT PRICING AND DELIVERY FOR ALL ITEMS ON PLUMBING FIXTURE SCHEDULE.

1. FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-5	KITCHEN HAND SINK - WALL HUNG (0.5 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-10	FLOOR DRAIN (SQUARE TOP)	X	X	X	X	3"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-20	THERMOMETER	X	X	X	1/2"	X
P-23	UTILITY CONNECTION (ICE MAKER)	X	1/2"	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2" & 3/4"	1/2"	1/2"	X
P-26	FUNNEL DRAIN	X	X	X	X	3"
P-26A	TRAP SEAL PROTECTOR	X	X	X	X	3"
P-29	ICE MACHINE TRENCH DRAIN	X	X	X	X	4"
P-30	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	X	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X

NOTES: (1) REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.

(2) DO NOT MANIFOLD POT OR PREP SINK DRAINS TOGETHER UNLESS ALLOWED BY LOCAL AUTHORITY.

2. KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
(305)	TEA BREWER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-102
(308)	COFFEE MAKER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-102
(367FW)	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(368FW)	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(380)	ICE MAKER	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 5/P-102
(384)	ICE BIN (1 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 5/P-102

3. PLUMBING FIXTURES

PLUMBING FIXTURES (15100)

P-5 KITCHEN HAND SINK ROUGH IN: SINK BY TMS; FAUCET: TOTO MODEL #TEL165-C20E#CP - PROVIDED BY HJC WITH THP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-5A KITCHEN DUMP SINK ROUGH IN: (SINK BY TMS; FAUCET: T&S MODEL #B-1146-CFA-VF05 - PROVIDED BY HJC WITH THP3094 NOZZLE) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS (PROVIDED BY HJC).

P-10 FLOOR DRAIN (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.

P-13B FLOOR SINK (VEGETABLE SINK): ZURN MODEL Z1910-KC-3NL-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.

P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN1400-XNL-T-BP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE. (X=PIPE DIA) (PROVIDED BY HJC).

P-20 THERMOMETER: PROVIDE TRERICE MODEL B83404 - 04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE. (PROVIDED BY HJC.)

P-23 UTILITY CONNECTION (ICEMAKER): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-201 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

P-25 SHOCK ABSORBER: ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER (PROVIDED BY HJC). ALT: (WTS) SSA + SSB; (JRS 5005 THROUGH 5050)

P-26 FUNNEL DRAIN (3"): ZURN ZN415-3NL-8S-OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 8"X8" SQUARE STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL (DRAIN AND STRAINER PROVIDED BY HJC). ALT: (JRS) 3510L03-F22NB.

P-26A TRAP SEAL PROTECTOR: PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER (PROVIDED BY HJC). PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26 FUNNEL DRAINS IN MECH ROOM. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES (PROVIDED BY HJC).

P-29 ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS DRAINS TR12-CFA-36 STAINLESS STEEL TRENCH DRAIN, 14.5" X 36", STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE(PROVIDED BY HJC). NO SUBSTITUTIONS.

P-30 FILTERED WATER FAUCET: (FAUCETS: T&S B-0236 PROVIDED BY HJC) 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.

P-33 TRAP PRIMER (MECHANICAL TYPE): PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT: (WTS) TP-300A-DR.

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #LF7RU2-2 ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFP INLET AND OUTLET. PROVIDE T&S BRASS MODEL B-0110 CHROME WALL BRACKET. (ALL PROVIDED BY HJC.)

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.

P-37 FLOOR DRAIN (3"): ZURN EZ1-PV3-S6 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D50-077.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC7-IFC. 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK. ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND HONEYWELL MODEL L6006C1018 110 VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE (ALL PROVIDED BY HJC). SET SHUT-OFF TEMPERATURE AT 130 DEG F.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

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

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STATE OF MISSOURI
GREG J. SCHLUTERMAN
NUMBER PE-2012026657
PROFESSIONAL ENGINEER
GREG J SCHLUTERMAN, P.E.
2022.07.12 17:36:36 -05'00'
HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 Northwest Blue Parkway
Lee's Summit, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08_N-SML-R
RELEASE:
PRINTED FOR
OTP

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50043
PRINTED FOR	OTP
DATE	07/08/2022
DRAWN BY	BLJ

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SHEET
PLUMBING SPECIFICATIONS AND SCHEDULES
SHEET NUMBER
P-103

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40-02859-P-103-PLUMBING SPECIFICATIONS AND SCHEDULES

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Development Services Department
Lee's Summit, Missouri
07/19/2022

DEMOLITION PLAN GENERAL NOTES

1. SEE ARCH PLANS FOR DEMO AREAS. ALL EXISTING OUTLETS, JUNCTION BOXES, LIGHTS, AND CIRCUITS IN DEMO AREAS TO BE REMOVED. CIRCUITS AND LIGHTING TO BE REUSED. SEE LIGHTING PLAN AND POWER PLAN.

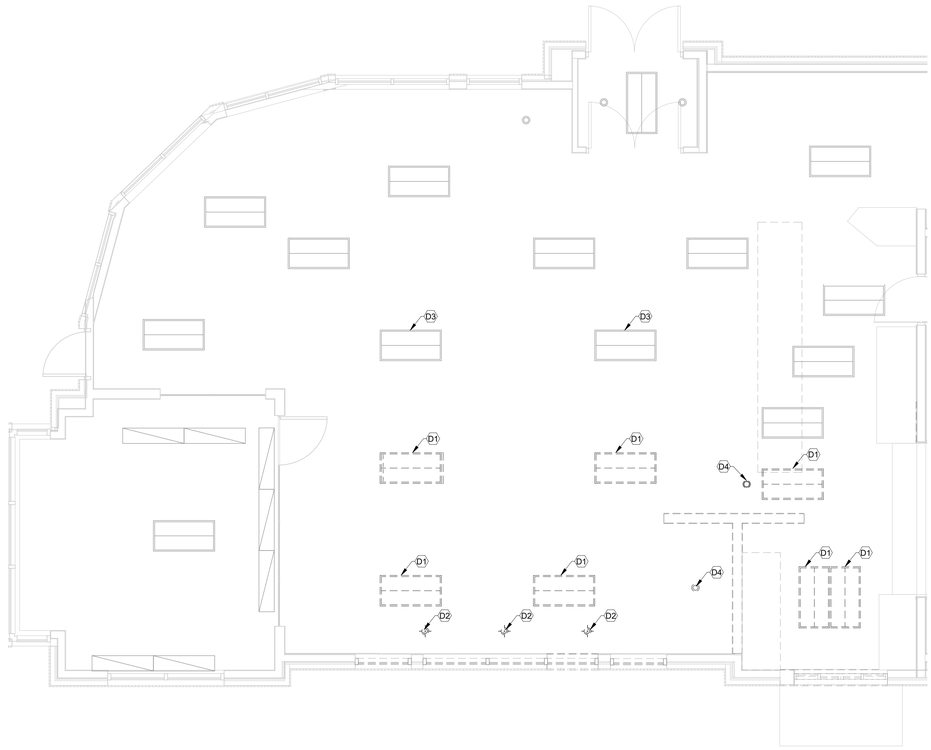
DEMOLITION PLAN KEYNOTES

D1 EXISTING LIGHTING FIXTURE TO BE DISCONNECTED AND REINSTALLED. SALVAGE EXISTING LIGHTING FIXTURE FOR REINSTALLATION AS INDICATED ON THE LIGHTING INSTALLATION PLAN.

D2 EXISTING TRACK AND ASSOCIATED TRACK FIXTURES TO BE DISCONNECTED AND REMOVED. UTILIZE EXISTING FEED FOR INSTALLATION OF NEW TRACK AND TRACK FIXTURES AS INDICATED ON THE LIGHTING INSTALLATION PLAN.

D3 EXISTING FIXTURES TO REMAIN (TYP).

D4 EXISTING LIGHTING FIXTURE TO BE DEMOLISHED. UTILIZE EXISTING FEED FOR INSTALLATION OF NEW 2X4 LIGHT FIXTURES IN AREA AS INDICATED ON THE LIGHTING INSTALLATION PLAN.



C1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT IS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

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STATE OF MISSOURI
NATHAN KYLE CONNORS
NUMBER PE-2017005852
PROFESSIONAL ENGINEER
Digitally signed by Nathan Kyle Connors
Date: 2022.07.12 17:28:24 -05'00'
NATHAN KYLE CONNORS, P.E.
PE-2017005852
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E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50003
PRINTED FOR	OTP
DATE	05/03/2022
DRAWN BY	BWM

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SHEET
ELECTRICAL DEMOLITION PLAN

SHEET NUMBER
E-200

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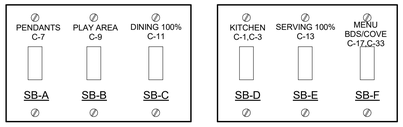
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07/18/2022

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P13 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P13 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

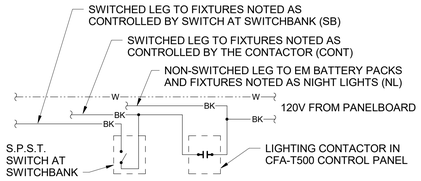
MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	EXISTING RELOCATED (2GT8-G-432-A12V-MVOLT-GS10IS)	4-FO28/835/XP/SS/ECO	53 VA	120 V	RECESSED	2'X4' STATI TROFFER RATED 7200 LUMENS, 4000K COLOR TEMP
R	LITHONIA	EXISTING RELOCATED (2RT8S-232-MVOLT-OS10I)	2-FO28/835/XP/SS/ECO	53 VA	120 V	RECESSED	2'X4' TROFFER RATED 7200 LUMENS, 4000K COLOR TEMP
RE	LITHONIA	EXISTING RELOCATED (2RT8S-232-MVOLT-OS10IS-EL14)	2-FO28/835/XP/SS/ECO	50 VA	120 V	RECESSED	SAME AS 'R' WITH EMERGENCY BATTERY PACK
XA	LITHONIA	EXISTING RELOCATED EXIT SIGN	INTEGRAL WITH FIXTURE	4 VA	120 V		EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XC	LITHONIA	AFN-BN-EXT (TWO LAMP UNIT	INTEGRAL WITH FIXTURE	21 VA	120 V		EXTERIOR WALL MOUNTED EMERGENCY LIGHTING UNIT, LOCATE NEAR EGRESS DOOR

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.
3. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P13 PROTOTYPE.
4. 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.

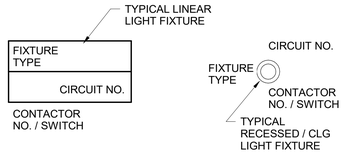


NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

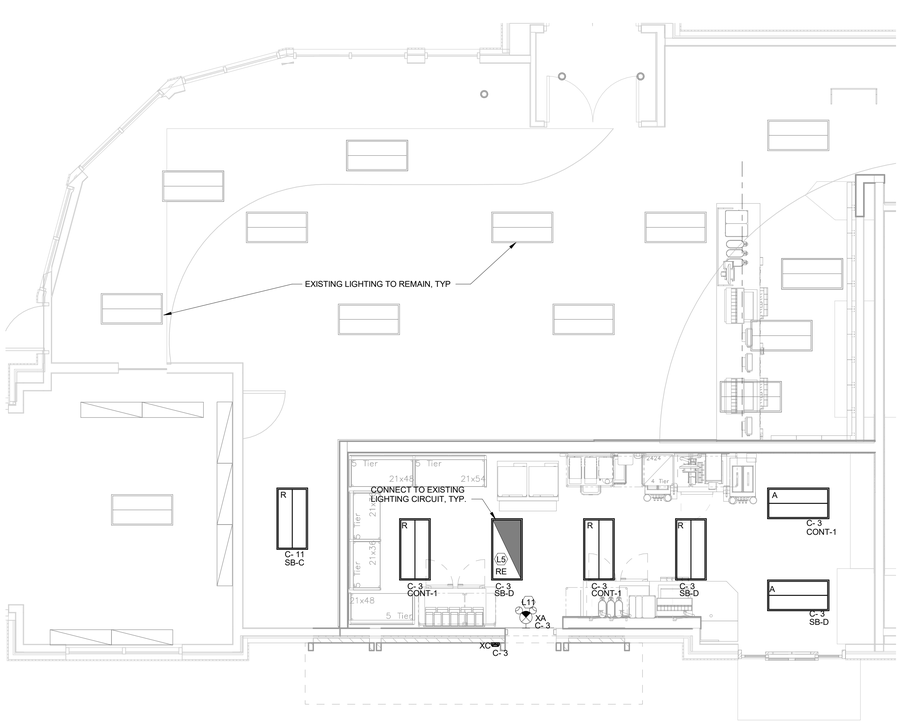
A1 EXISTING SWITCH BANK "SB" DETAIL
NO SCALE



E2 LIGHTING CONTROL DIAGRAM
NO SCALE



E1 LIGHT FIXTURE NOMECLATURE
NO SCALE



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

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND ADJUST FOR ACTUAL FIELD CONDITIONS AT NO EXPENSE TO OWNER. REPORT TO THE ARCHITECT AND OR ENGINEER ANY DISCREPANCIES WITH THE PLANS AND EXISTING CONDITIONS.
2. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
3. MINIMUM WIRE SIZE SHALL BE #12 AWG CU. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT, TO VERIFY ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED BY ALL OTHER TRADES ARE PROVIDED FOR IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE DRAWINGS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY FUNCTIONING AFTER INSTALLATION. COMPONENTS NOT SHOWN, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
6. ALL PROTECTIVE DEVICES (INCLUDING CIRCUIT BREAKERS, FUSED SWITCHES, COMBINATION MOTOR STARTERS, ETC.) SHALL HAVE AN INTERRUPTING CAPACITY EQUAL TO OR EXCEEDING THE AVAILABLE FAULT CURRENT. (SEE RATING SHOWN ON PANEL SCHEDULES.)
7. EXTEND / REROUTE EXISTING CIRCUITS TO NEW ELECTRICAL DEVICE LOCATIONS. COORDINATE DEMOLITIOIN OF CIRCUITS WITH NEW POWER PLAN.
8. EC SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF THE ELECTRICAL DEMOLITION. REMOVE CONDUITS AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS TO REMAIN. LABEL DEMOLISHED CIRCUITS IN PANELBOADS AS "SPARE". COORDINATE EXACT REQUIRMENTS WITH EXISTING CONDITIONS PRIOR TO BID.

LIGHTING PLAN KEYNOTES

(L5) CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.

(L11) THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS

C1 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 DUPLEX AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44" UON
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT QUAD. AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44"
	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	
S	SINGLE POLE TOGGLE SWITCH	48"
S_2	DOUBLE POLE TOGGLE SWITCH	48"
S_3	THREE WAY TOGGLE SWITCH	48"
S_M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
S_P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
S_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 LIGHTING PANELBOARD	6'-6" *
	SURFACE MOUNTED LIGHTING 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 ANSUL 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	
	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
S1	SECURITY SYSTEM KEY NOTE

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT IS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

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STATE OF MISSOURI
NATHAN KYLE CONNORS
NUMBER PE-2017005852
PROFESSIONAL ENGINEER
Nathan Kyle Connors
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NATHAN KYLE CONNORS, P.E.
PE-2017005852
HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 27-22-50003
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SHEET
LIGHTING PLAN

SHEET NUMBER
E-211

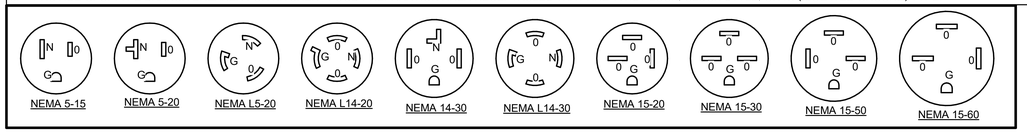
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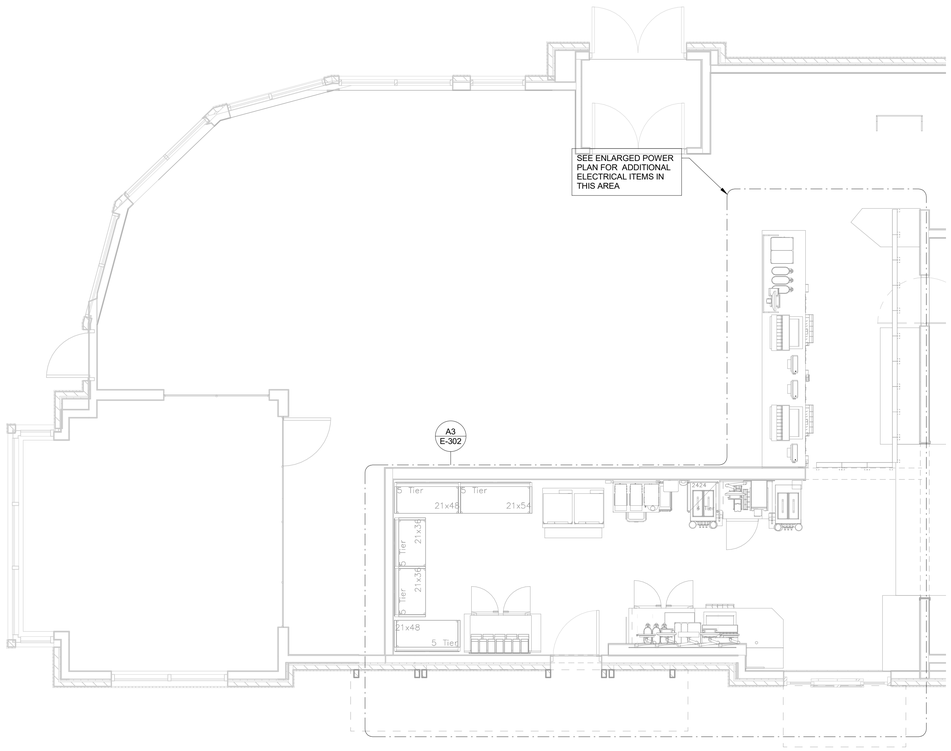
KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P13 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA-RATING	COMMENTS AND REMARKS
180	ORDER REGISTER	120	1		0.7	5-20P	
180R	ORDER REGISTER	120	1		0.70	5-20P	
182L	LABEL PRINTER	other	1		1.70	5-20P	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182R	RECEIPT PRINTER	other	1		1.80	5-20P	
183	ORDER MONITOR	120	1		0.125	5-20P	
183R	ORDER MONITOR	120	1		0.125	5-20P	
190R	DRIVE-THRU VIDEO MONITOR	120	1		0.8	5-20P	
211B	FLY SYSTEM	120	1	0.10	0.60	5-15P	CLOCK STYLE RECEPTACLE REQUIRED
300aR	MILKSHAKE BASE DISPENSER	120	1		4.00	5-20P	MOUNTED ON ITEM #300b
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30P/15-20P	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
300XR	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30P/15-20P	
305R	TEA BREWER	120	1	1.650	13.80		
308R	SINGLE COFFEE MAKER	208	1	4.000	19.20	L14-30P	
310R	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P	
315WR	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		10.00	5-15P/5-15P	
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		5-15P	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.600	15.70	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380D	ICE MACHINE	115	1	0.368	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
420L	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE LEFT - ORDER ON 4" CASTERS
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.30	5-15P	ORDER ON 4 IN CASTERS
671R	MENU BOX	120	1		12.5	5-20P	

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.

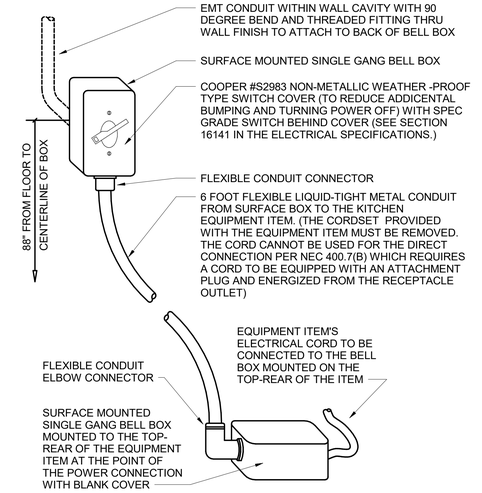




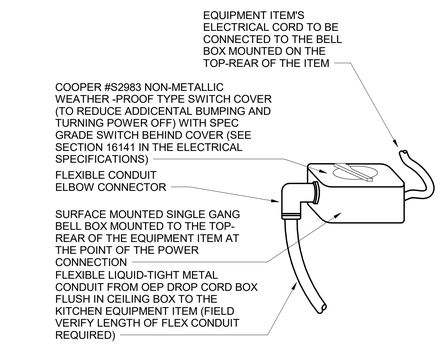
C1 POWER AND SYSTEMS PLAN - LRG
1/4" = 1'-0"

POWER PLAN GENERAL NOTES

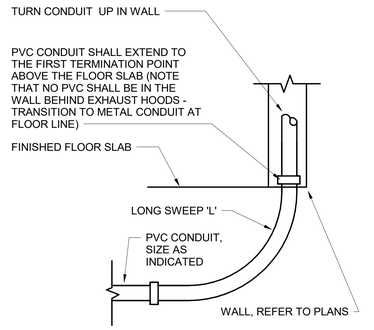
1. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
2. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
3. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.



E3 DIRECT CONNECTION -WALL LOCATION
NO SCALE



E2 DIRECT CONNECTION - ISLAND LOCATION
NO SCALE



E1 INTERIOR PVC CONDUIT DETAIL
NO SCALE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

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Atlanta, Georgia
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STATE OF MISSOURI
NATHAN KYLE CONNORS
NUMBER PE-2017005852
PROFESSIONAL ENGINEER
Digitally signed by Nathan Kyle Connors
Date: 2022.07.22 17:28:34 -05'00'
NATHAN KYLE CONNORS, P.E.
PE-2017005852
HARRISON FRENCH & ASSOCIATES, LTD
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

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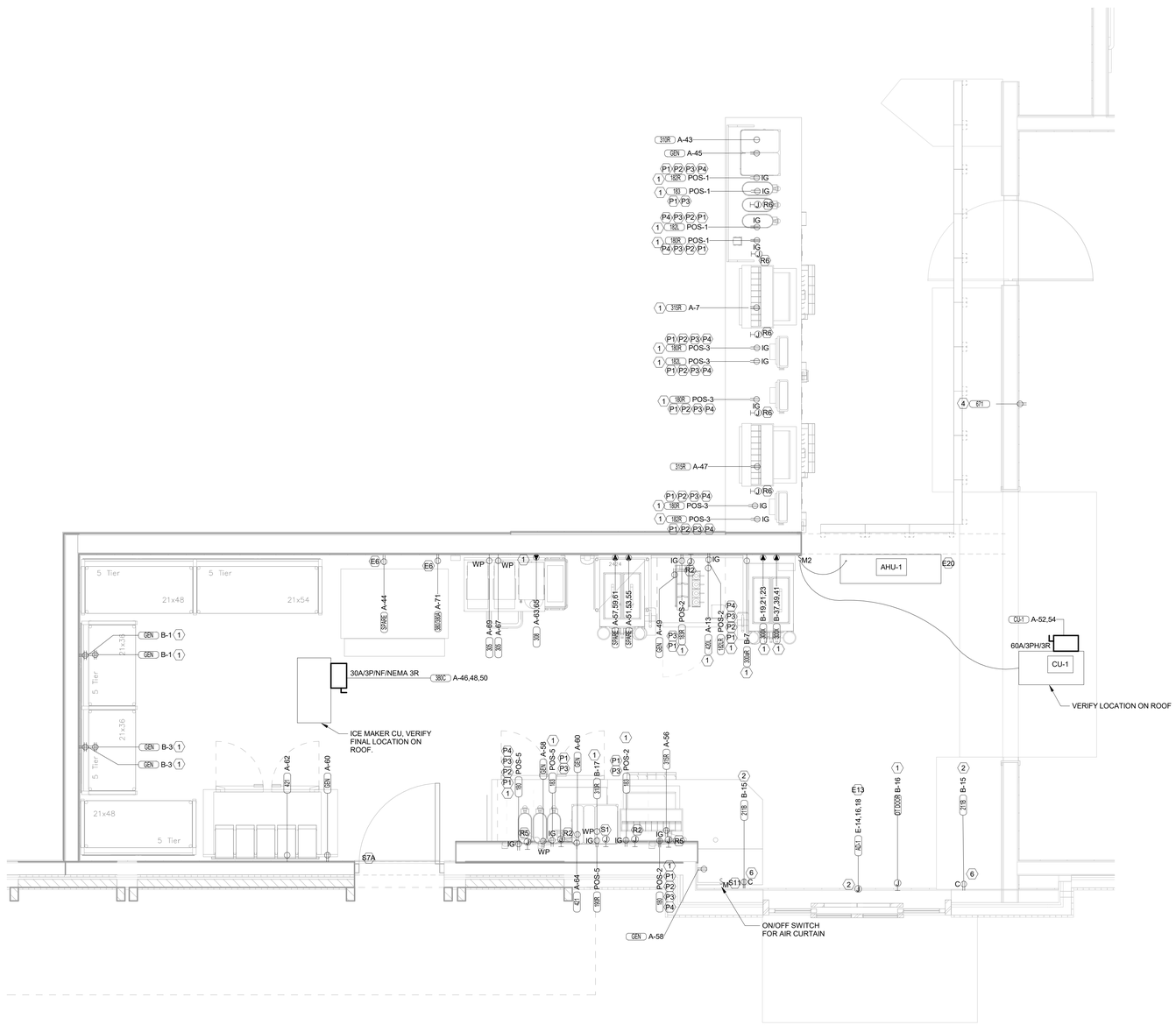
CONSULTANT PROJECT #	27-22-50003
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SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-221

7/12/2022 5:07:12 PM BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO/02859_Summit Fair FSU_Remodel_ELE.rvt
50-S08-02859-E-221-POWER AND SYSTEMS PLAN



A3 ENLARGED SERVING AREA POWER PLAN

1/2" = 1'-0"

POWER PLAN KEYNOTES

1. RECONNECT TO EXISTING CIRCUIT PREVIOUSLY FEEDING RELOCATED EQUIPMENT.
2. CONNECT TO EXISTING CIRCUIT VERIFY EXISTING CIRCUIT HAS SPARE CAPACITY.
4. E.C. TO RELOCATE EXISTING DEVICE AND EXTEND EXISTING CIRCUIT AS NEEDED FOR RELOCATION OF EXISTING DIGITAL MENU BOARDS. REPLACE EXISTING DEVICE WITH GFI EQUIVALENT AS NEEDED PER LOCAL CODE.
6. 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.

SECURITY KEYNOTES

- S1 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.
- S7A EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S9 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S11 EXTEND 1/2" CONDUIT FROM WINDOW'S FRAME MULLION (RIGHT SIDE) TO ABOVE ACCESSIBLE CEILING.

POS DATA KEYNOTES

- R2 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.
- R4 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.
- R5 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.
- R6 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.

ENLARGED POWER PLAN KEYNOTES

- E13 JUNCTION BOX ABOVE CEILING FOR AD-1 AT THE DRIVE-THRU WINDOW.
- E20 EXISTING SECURITY CAMERA, AND HME UNIT TO BE RELOCATED. VERIFY EXISTING CONDITIONS AND COORDINATE WITH THE OWERS SECURITY SYSTEM VENDOR TO RELOCATE THESE ITEMS AND POWER.

POS POWER KEYNOTES

- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- P3 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.
- P4 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.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. 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.

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LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

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CONSULTANT PROJECT # 27-22-50003
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SHEET
ENLARGED POWER PLAN

SHEET NUMBER
E-302

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50-S08-02859-E-302-ENLARGED POWER PLAN

Branch Panel: A

NEW PANELBOARD

LOCATION: BOH
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	TELEPHONE DT VIDEO	20 A	1	0.720	1.700					1	20 A	TEA BREWER	2	
	3	OFFICE GEN & MUSIC	20 A	1			0.720	1.700			1	20 A	TEA BREWER	4	
	5	OFFICE GEN/PRINTER	20 A	1					1.080	0.180	1	20 A	GENERAL OUTLET	6	
N,I	7	DRINK TOWER (315R)	20 A	1	1.200	1.440					1	20 A	WATER HEATER	8	
	9	GENERAL OUTLETS	20 A	1			0.720	0.667			1	20 A	PANEL-POS THRU PIB	10	
	11	GENERAL OUTLETS	20 A	1					0.720	0.000	1	20 A	SPARE	12	
N,I	13	UC REFRIG (420R)	20 A	1	0.564	0.000					1	20 A	SPARE	14	
	15	U.C. REFRIG	20 A	1			0.480	0.360			1	20 A	SECURITY SYSTEM	16	
	17	U.C. REFRIG	20 A	1					0.225	1.539	3	20 A	COOLER CONDENSER	18	
	19	U.C. REFRIG	20 A	1	0.225	1.539					--	--	--	20	--
	21	U.C. REFRIG	20 A	1			0.225	1.539			--	--	--	22	--
	23	SANDWICH SLIDE	20 A	1					1.840	0.000	1	20 A	SPARE	24	
	25	SANDWICH SLIDE	20 A	1	0.920	1.987					3	20 A	FREEZER CONDENSER	26	
	27	CARBONATOR	20 A	1			0.864	1.987			--	--	--	28	--
	29	CARBONATOR	20 A	1					0.864	1.987	--	--	--	30	--
	31	CARBONATOR	20 A	1	0.864	0.500					1	20 A	GREEZER HEAT TAPE	32	
	33	CARBONATOR	20 A	1			0.864	0.180			1	20 A	GENERAL OUTLET	34	
	35	BOOSTER PUMP	20 A	2					0.572	1.127	1	20 A	HOOD EXHAUST FAN 1	36	
--	37	--	--	--	0.572	1.127					1	20 A	HOOD EXHAUST FAN 2	38	
	39	GENERAL OUTLETS	20 A	1			0.720	0.667			1	20 A	HOOD EXHAUST FAN 3	40	
	41	HOOD CJ FANS	20 A	1					0.450	0.667	1	20 A	HOOD EXHAUST FAN 4	42	
N,I	43	DOUBLE JUICE DISP. (310R)	20 A	1	1.020	0.610					1	20 A	INTERIOR ICE MAKER (380/380A)	44	N,I
N,I	45	GEN OUTLETS	20 A	1			0.180	1.704			3	25 A	ICE MAKER CU(380C)	46	N
N,I	47	DRINK TOWER (315R)	20 A	1					1.200	1.704	--	--	--	48	--
N,I	49	GENERAL OUTLETS	20 A	1	0.180	1.704					--	--	--	50	--
N,I	51	ICE DREAM MACHINE (300XR)	20 A	3			1.800	2.600			2	40 A	CU-1	52	N
--	53	--	--	--					1.800	2.600	--	--	--	54	--
--	55	--	--	--	1.800	1.200					1	20 A	4 DRINK TOWERS (315R)	56	N,I
N,I	57	ICE DREAM MACHINE (300XR)	30 A	3			2.280	0.360			1	20 A	GEN OUTLETS	58	N,I
--	59	--	--	--					2.280	0.360	1	20 A	GEN OUTLETS	60	N,I
--	61	--	--	--	2.280	0.756					1	20 A	UC REFRIG (421)	62	N,I
N,I	63	COFFEE MAKER (308)	30 A	2			2.000	0.756			1	20 A	UC REFRIG (421)	64	N,I
--	65	--	--	--					2.000	0.000	--	--	SPACE	66	--
N,I	67	TEA BREWER (305)	20 A	1	1.650	0.000					--	--	SPACE	68	--
N,I	69	TEA BREWER (305)	20 A	1			1.650	0.000			--	--	SPACE	70	--
N,I	71	INTERIOR ICE MAKER (380/380A)	20 A	1					0.610	0.000	--	--	SPACE	72	--
			Total Load:		24.56 kVA		25.02 kVA		24.63 kVA						
			Total Amps:		204.6 A		208.6 A		205.4 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10312 VA	100.00%	10312 VA		
KITCHEN EQUIPMENT BOH	21533 VA	65.00%	13996 VA	**Total Conn. Load:**	74.2 kVA
KITCHEN REFRIG EQUIPMENT	27271 VA	65.00%	17726 VA	**Total Est. Demand:**	57.1 kVA
MISCELLANEOUS	5582 VA	100.00%	5582 VA	**Total Conn.:**	206.0 A
RECEPTACLES	6480 VA	100.00%	6480 VA	**Total Est. Demand:**	158.6 A
MISCELANEOUS	3034 VA	100.00%	3034 VA		

Branch Panel: B

EXISTING PANELBOARD

LOCATION: BOH
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
N,I	1	GEN OUTLETS	20 A	1	0.360	12.464					3	100 A	PANEL F	2	
N,I	3	GEN RECEPTS	20 A	1			0.360	12.4...			--	--	--	4	--
	5	GENERAL OUTLETS	20 A	1					0.180	12....	--	--	--	6	--
N,I	7	MILSHAKE DISPENSERS (300A)	20 A	1	0.120	0.000					1	20 A	SPARE	8	
	9	DISHWASHER	60 A	3			5.760	1.380			1	20 A	SGL R-I FRY FREEZER	10	
--	11	--	--	--					5.760	1.840	1	20 A	FRY HOLDING STAT	12	
--	13	--	--	--	5.760	1.840					1	20 A	FRY HOLDING STAT	14	
N,I	15	FLY SYSTEMS	20 A	1			0.096	0.500			1	20 A	DRIVE THRU DOOR	16	
N,I	17	COUBLE JUICE DISP (310R)	20 A	1					1.020	2.018	2	30 A	ICE MAKER	18	
N,I	19	ICE DREAM MACHINE (300XR)	30 A	3	2.280	2.018					--	--	--	20	--
--	21	--	--	--			2.280	2.018			2	30 A	ICE MAKER	22	
--	23	--	--	--					2.280	2.018	--	--	--	24	--
	25	ROOF RECEPTS	20 A	1	0.900	1.920					1	20 A	THAWING CABINET	26	
	27	DINING RM OUTLETS	20 A	1			1.080	1.920			1	20 A	THAWING CABINET	28	
	29	DINING RM OUTLETS	20 A	1					1.080	0.000	1	20 A	EXISTING LOAD	30	
	31	FLY SYSTEM	20 A	1	0.245	0.000					1	20 A	SPARE	32	
	33	DOUBLE JUICE DISP	20 A	1			0.943	0.380			1	20 A	REFUSE ENCLOSURE	34	
	35	LEMON JUICER	20 A	1					0.360	0.360	1	20 A	T-500/SHUNT TRIP	36	
N,I	37	ICE DREAM MACHINE (300XR)	20 A	3	1.800	2.150					2	30 A	COFFEE MAKER	38	
--	39	--	--	--			1.800	2.150			--	--	--	40	--
--	41	--	--	--					1.800	0.720	1	20 A	GEN OUTLET/DOORBELL	42	
			Total Load:		31.86 kVA		33.13 kVA		31.90 kVA						
			Total Amps:		265.5 A		276.1 A		265.9 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	73231 VA	65.00%	47600 VA		
KITCHEN REFRIG EQUIPMENT	17416 VA	65.00%	11320 VA	**Total Conn. Load:**	96.9 kVA
LIGHTING	96 VA	125.00%	120 VA	**Total Est. Demand:**	65.3 kVA
MISCELLANEOUS	360 VA	100.00%	360 VA	**Total Conn.:**	268.9 A
Motor	500 VA	125.00%	625 VA	**Total Est. Demand:**	181.3 A
RECEPTACLES	5285 VA	100.00%	5285 VA		

Branch Panel: C

EXISTING PANELBOARD

LOCATION: BOH
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	KITCHEN LTG	20 A	1	1.124	1.620					1	20 A	BUILDING SIGNAGE	2	
	3	KITCHEN LTG	20 A	1			1.553	1.620			1	20 A	BUILDING SIGNAGE	4	
	5	RESTROOM LTG & EF-3	20 A	1					0.748	0.000	1	20 A	SPARE	6	
	7	DINING AREA LTG	20 A	1	1.221	0.000					1	20 A	SPARE	8	
	9	PLAY AREA LTG	20 A	1			0.542	0.000			1	20 A	SPARE	10	
	11	DINING AREA LTG	20 A	1					0.801	0.624	1	20 A	SECURITY/FLAGPOLE LTG	12	
	13	SERVING AREA LTG	20 A	1	0.232	0.000					1	20 A	SPARE	14	
	15	SPARE	20 A	1			0.000	0.000			1	20 A	SPARE	16	
	17	MENUBOARDS	20 A	1					1.740	0.786	1	20 A	AWNING LTG	18	
	19	DIRECTIONAL SIGNS	20 A	1	1.080	0.416					1	20 A	BLDG LTG	20	
	21	PARKING LOT LTG	20 A	1			0.930	0.416			1	20 A	BLDG LTG	22	
	23	PARKING LOT LTG	20 A	1					0.930	0.000	1	20 A	SPARE	24	
	25	PARKING LOT LTG	20 A	1	0.930	0.000					1	20 A	SPARE	26	
	27	PARKING LOT LTG	20 A	1			0.930	0.000			1	20 A	SPARE	28	
	29	PARKING LOT LTG	20 A	1					0.930	0.000	1	20 A	SPARE	30	
	31	PARKING LOT LTG	20 A	1	0.930	0.000					1	20 A	SPARE	32	
	33	MENUBOARD COVE LTG	20 A	1			0.160	0.000			1	20 A	SPARE	34	
	35	FRZR/COOLER LTG	20 A	1					1.000	0.000	1	20 A	SPARE	36	
	37	MAIN ID SIGN	20 A	1	1.620	0.780					1	20 A	DRIVE - THRU CANOPY	38	
	39	MAIN ID SIGN	20 A	1			1.620	1.620			1	20 A	BUILDING SIGNAGE	40	
	41	MAIN ID SIGN	20 A	1					1.620	1.620	1	20 A	BUILDING SIGNAGE	42	
			Total Load:		9.95 kVA		9.39 kVA		10.80 kVA						
			Total Amps:		83.7 A		78.2 A		90.7 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	30140 VA	125.00%	37675 VA		
Load Classification	0 VA	0.00%	0 VA	**Total Conn. Load:**	30.1 kVA
				Total Est. Demand:	37.7 kVA
				Total Conn.:	83.7 A
				Total Est. Demand:	104.6 A

Branch Panel: E

EXISTING PANELBOARD

LOCATION: BOH
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: 400 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	ROOF TOP UNIT AC-1	150 A	3	15.120	4.080					3	50 A	ROOFTOP UNIT AC-2	2	
--	3	--	--	--			15.120	4.080			--	--	--	4	--
--	5	--	--	--					15.120	4.080	--	--	--	6	--
	7	ROOFTOP UNIT AC-3	80 A	3	7.920	4.080					3	50 A	ROOFTOP UNIT AC-4	8	
--	9	--	--	--			7.920	4.080			--	--	--	10	--
--	11	--	--	--					7.920	4.080	--	--	--	12	--
	13	ELECTRIC DUCT HEATER	90 A	3	8.330	4.068					3	45 A	HEATED AIR DOOR (AD-1)	14	N
--	15	--	--	--			8.330	4.068			--	--	--	16	--
--	17	--	--	--					8.330	4.068	--	--	--	18	--
	19	WALL HEATER	20 A	2	0.375	0.960					1	20 A	UNHEATED AIR DOOR	20	
--	21	--	--	--			0.375	0.000			--	--	SPACE	22	--
--	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	--
--	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	--
--	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	--
--	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	--
			Total Load:		44.93 kVA		43.97 kVA		43.60 kVA						
			Total Amps:		374.9 A		366.9 A		363.3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
HVAC COOL	120300 VA	100.00%	120300 VA	**Total Conn. Load:**	132.5 kVA
				Total Est. Demand:	132.5 kVA
				Total Conn.:	367.8 A
				Total Est. Demand:	367.8 A

Branch Panel: POS

EXISTING PANELBOARD

LOCATION: OFFICE
SUPPLY FROM: A
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 3
+IG

A.I.C. SERIES RATING: 10K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

PROVIDE A JUMPER FOR PHASE A & B

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
IG,H	1	COUNTER POS STATION (180/182)	15 A	1	0.151	0.121			1	15 A	COUNTER POS STATION (180/182)	2	IG,H
IG,H	3	COUNTER POS STATION (180/182/183)	15 A	1			0.227	0.360	1	15 A	NETWORK CABINET	4	
IG,H	5	COUNTER POS STATION (180/182)	15 A	1	0.106	0.180			1	15 A	OFFICE RECEPTACLE	6	
	7	DRIVE THRU POS STATION	15 A	1			0.090	0.150	1	15 A	4 MONITORS	8	
	9	DUAL DT MONITORS	15 A	1	0.110	0.000			1	15 A	SPARE	10	
	11	SPARE	15 A	1			0.000	0.000	1	20 A	BACKFED MAIN BREAKER	12	
			Total Load:		0.67 kVA		0.83 kVA						
			Total Amps:		11.1 A		12.4 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	1494 VA	100.00%	1494 VA		
				Total Conn. Load:	1.5 kVA
				Total Est. Demand:	1.5 kVA
				Total Conn.:	12.4 A
				Total Est. Demand:	12.4 A

Distribution Panel: MDP

EXISTING PANELBOARD

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: MLO
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
N	1	PANEL A	250 A	3	24.56	9.95					3	250 A	PANEL C	2	
--	3	--	--	--			25.02	9.39			--	--	--	4	--
--	5	--	--	--					24.63	10.80	--	--	--	6	--
	7	PANEL B	250 A	3	31.86	63.71					3	400 A	PANEL D	8	
--	9	--	--	--			33.13	63.71			--	--	--	10	--
--	11	--	--	--					31.90	63.71	--	--	--	12	--
	13	PANEL E	400 A	3	44.93									14	
--	15	--	--	--			43.97							16	
--	17	--	--	--					43.60					18	
	19	TVSS	30 A	3	0.00									20	
--	21	--	--	--			0.00							22	
--	23	--	--	--					0.00					24	
			Total Load:		175.0 kVA		175.2 kVA		174.6 kVA						
			Total Amps:		1458.9 A		1460.7 A		1455.3 A						

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
524.87 kVA	0	0	352.44	0	979.00

CALCULATONS PER NEC 220.88

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-001.

(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.

(GF) GROUND FAULT.

(H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP, RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA. THE GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GROUND FAULT TYPE RECEPTACLE 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.

(N) NEW CIRCUIT BREAKER PROVIDED BY CONTRACTOR.

(SB) THRU (1) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (1) SB6100-021-0 GFCI PROTECTION DEVICE.

(ST) SHUNT TRIP. INTERLOCK W/ ANSUL SYSTEM VIA T-500 PANEL.

(S) SURGE PROTECTION FOR INDIVIDUAL CIRCUIT. REF SHEET E-502 NOTES FOR TYPE.

ALL BREAKERS ARE EXISTING TO REMAIN EXCEPT WHERE NOTED OTHERWISE.

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT IS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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

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STATE OF MISSOURI
NATHAN KYLE CONNORS
NUMBER PE-2017005852
PROFESSIONAL ENGINEER
Digitally signed by Nathan Kyle Connors
DN: cn=Nathan Kyle Connors, o=Harrison French and Associates, ou=Bentonville, email=nconnors@hfa-ae.com, c=US
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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 27-22-50003
PRINTED FOR OTP
DATE 05/03/2022
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SHEET
PANEL SCHEDULES

SHEET NUMBER
E-501

7/12/2022 5:07:13 PM BIM 360://MO_02859_Summit Fair FSU_2022_5_TRO/02859_Summit Fair FSU_Remodel_ELE.rvt
50-S08-02859-E-501-PANEL SCHEDULES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
07/19/2022

(B1) CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps 60d C	75d C	Conductors Phase & Neutral Qty	Size	Type	Min Eq Grd Qty/Set	Size	Raceway Size (Nominal Inches) No. Sets	Phase, Neutral & Equip Grd EMT	IMC	RIGID	PVC	With IG EMT	IMC	PVC
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
14	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
15	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
17	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
18	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
19	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
20	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
21	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
22	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
24	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
26	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
27	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
28	110/2	-	115	3	2	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
29	110/3	-	115	4	2	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
30	125/2	-	130	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
31	125/3	-	130	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
32	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
33	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
34	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
36	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
38	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
39	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
40	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
41A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
41B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3..00	3.00
42A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
42B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
44A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
44B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
45A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
45B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
46	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
47	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
48	1600/3	-	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.

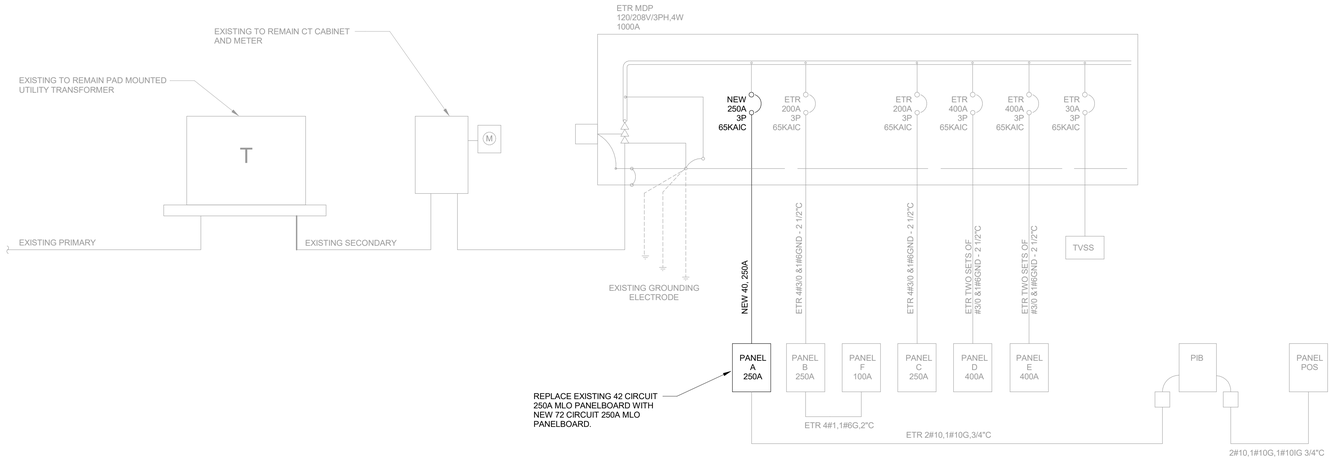
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

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 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.



(A4) EXISTING SINGLE LINE DIAGRAM

NO SCALE

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT IS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

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CHICK-FIL-A
DRIVE-THRU EXPANSION

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 27-22-50003
PRINTED FOR OTP
DATE 05/03/2022
DRAWN BY BWM

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SHEET
SINGLE LINE DIAGRAM AND NOTES

SHEET NUMBER
E-502

7/12/2022 5:07:18 PM BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO/02859_Summit Fair FSU_Remodel_ELE.rvt
50-S08-02859-E-502-SINGLE LINE DIAGRAM AND NOTES

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 <u>shall not</u> 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, consisiting 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.

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.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/19/2022

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PROFESSIONAL ENGINEER
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HARRISON FRENCH & ASSOCIATES, LTD
E-2005011725-F

CHICK-FIL-A
DRIVE-THRU EXPANSION
690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

FSR#02859

BUILDING TYPE / SIZE: S08
RELEASE: 21.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	27-22-50003
PRINTED FOR	OTP
DATE	05/03/2022
DRAWN BY	BWM

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SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-901

7/12/2022 5:07:18 PM BIM 360://MO_02859_Summit Fair FSU_2022-5_TRO/02859_Summit Fair FSU_Remodel_ELE.rvt
50-S08-02859-E-901-ELECTRICAL SPECIFICATIONS

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 notedotherwise):
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 (All Regions): from Villa Lighting, Dave Christanell (800)325-0963

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 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 for the region of the project (verify region designation with Owner's Representative):

1. Villa Lighting - All Regions. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - davec@villalighting.com

B. Ballasts to be electronic ballast provided with lighting fixture by the manufacturer.

C. 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. Cable shall be in conduit where installed in walls or inaccessible ceilings.

C. Minimum conduit size shall be 3/4" .

PART 3 - EXECUTION

3.01 INSTALLATION
A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

B. Provide one #10 equivalent nylon pull wire in each system empty conduit.

C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.

E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, 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. Provide underground PVC, Schedule 40, service conduit as required by plans.

C. Telephone Utility Company will provide service entrance cable.

D. Interior telephone system will be furnished by owner's vendor.

E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. 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.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/18/2022

Chick-fil-A
5200 Buffington Road
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30349-2998

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STATE OF MISSOURI
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50-S06-02859-E-902-ELECTRICAL SPECIFICATIONS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
6/19/2022

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND TO MAKE ALL EXTERNAL, INTERNAL INTERCONNECTION, 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 LBS. 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.

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"Æ CONDUIT OR A MINIMUM BENDING RADIUS OF 36" FOR 6" Æ 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 COOLER / 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)

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.

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.

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 THRU ROOF. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR).
4. GENERAL CONTRACTOR TO PROVIDE DUCT WRAP OR SHAFT(S) AND OPENING(S) THRU 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 THRU (WALLS / FLOORS / CEILINGS / ROOF) AS REQUIRED FOR ALL FOODSERVICE EQUIPMENT AND TO SEAL ALL PENETRATIONS WITH PROPER SEALANT.
12. GENERAL CONTRACTOR TO PROVIDE ALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.
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.

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.

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 IS NECESSARY
   - 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

REFRIGERATION NOTES

1. REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES, WHICH EXTEND DOWN THRU 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 THRU 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 PROPOSER 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.

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.

KITCHEN SHEET INDEX

NO.	SHEET NAME
K-001	GENERAL NOTES
K-211	ENLARGED EQUIPMENT FLOOR PLAN
K-601	ELECTRICAL ROUGH-IN ELEVATIONS
K-611	PLUMBING ROUGH-IN ELEVATIONS
K-801	EQUIPMENT SCHEDULE

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	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 BOARD	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		

SYMBOLS

- #K-### — ERI ELEVATION MARKER
- #K-### — PRI ELEVATION MARKER
- IFC CLEARANCE
- ELEVATION HEIGHT MARKER
- 2X6 BLOCKING

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

TriMark
Foodservice Equipment, Supplies and Design
STRATEGIC

CONSTRUCTION DOCUMENTS

CHICK-FIL-A
LEE'S SUMMIT

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

#02859

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

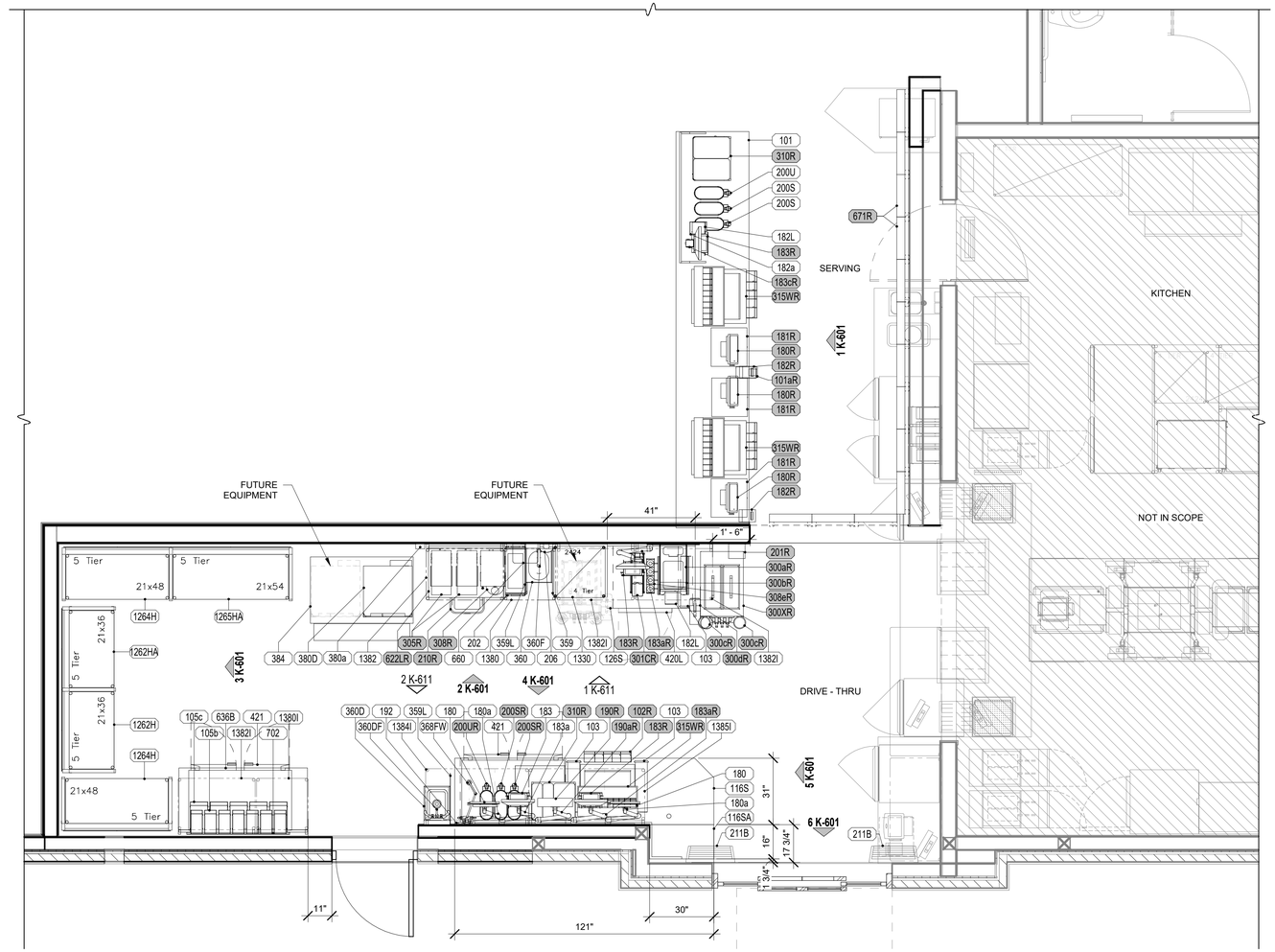
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SHEET
GENERAL NOTES

SHEET NUMBER
K-001

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6/23/2022 3:53:48 PM
60-02859-K-001-GENERAL NOTES



1 DRIVE - THRU EXTENSION
3/8" = 1'-0"

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
Date: 7/19/2022

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

TriMark
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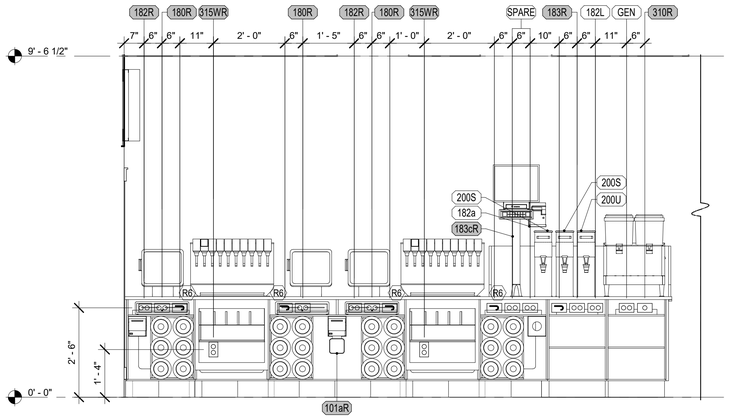
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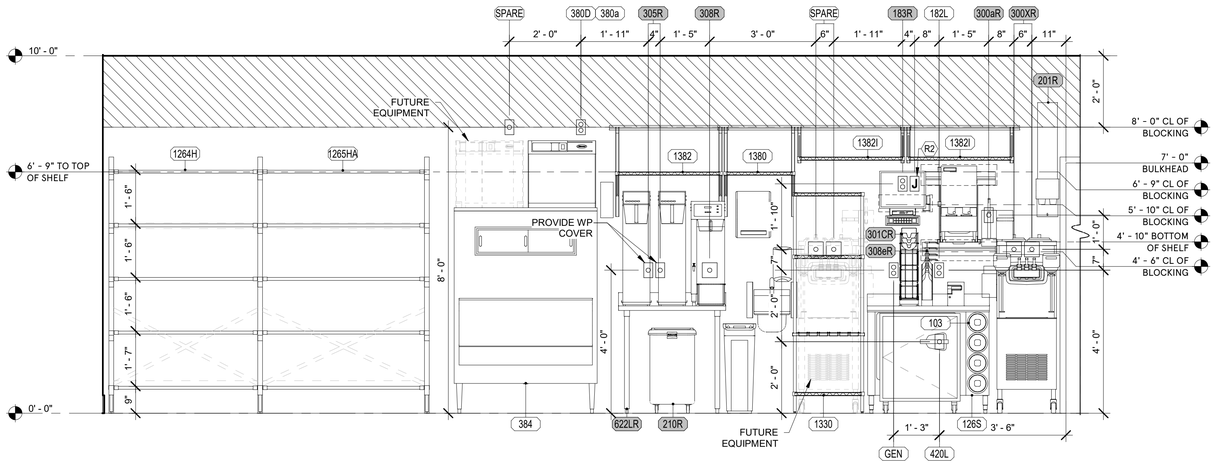
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-211

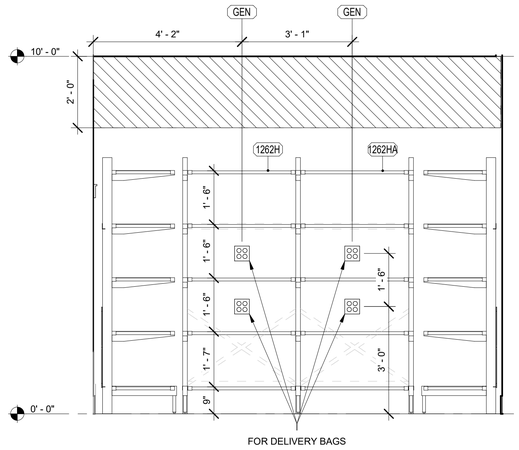
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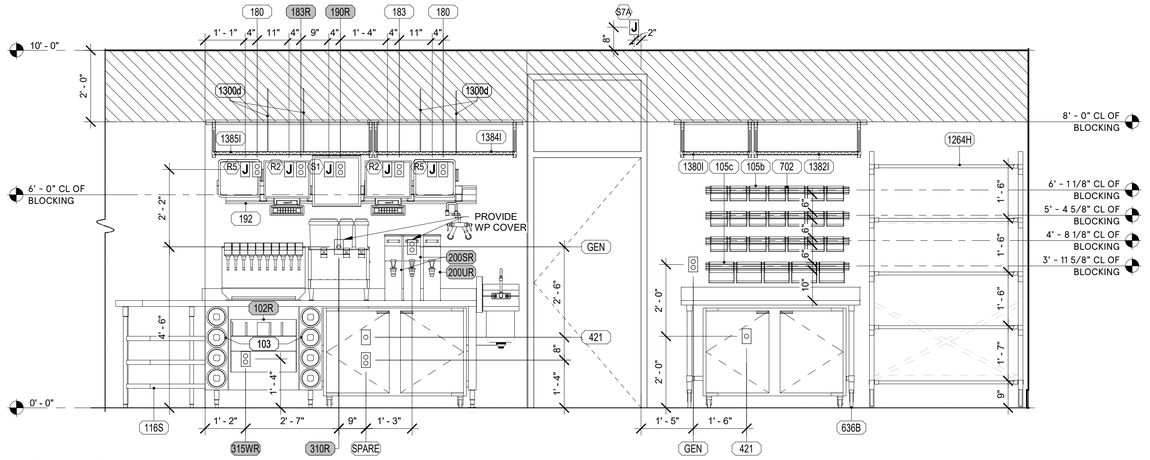
1 SERVING
1/2" = 1'-0"



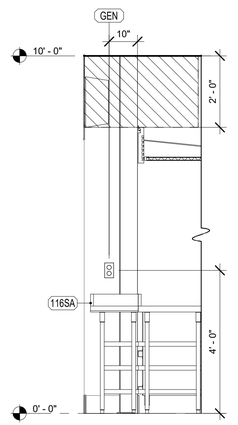
2 DRIVE-THRU
1/2" = 1'-0"



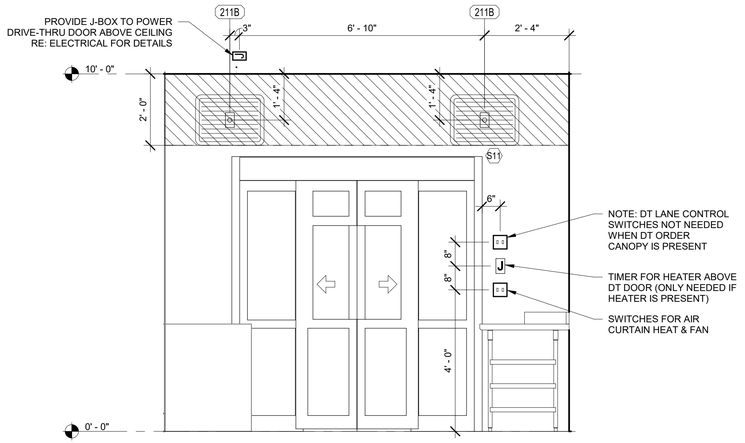
3 DRIVE-THRU
1/2" = 1'-0"



4 DRIVE-THRU
1/2" = 1'-0"



5 DRIVE-THRU
1/2" = 1'-0"



6 DRIVE-THRU
1/2" = 1'-0"

ELEVATION LEGEND

888Aa	EQUIPMENT NUMBER
R3	INDICATES NOTE ON SHEET E2
J	JUNCTION BOX
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	SWITCH
	PHONE
	TERMINATION OF PVC CONDUIT FOR RADIANT POS SYSTEM
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (2 GANG BOX)
SK	SECURITY KEYPAD

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Lee's Summit, Missouri
6/7/19/2022

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

TriMark
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STRATEGIC

CONSTRUCTION DOCUMENTS

CHICK-FIL-A
LEE'S SUMMIT

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

#02859

BUILDING TYPE / SIZE:
RELEASE:

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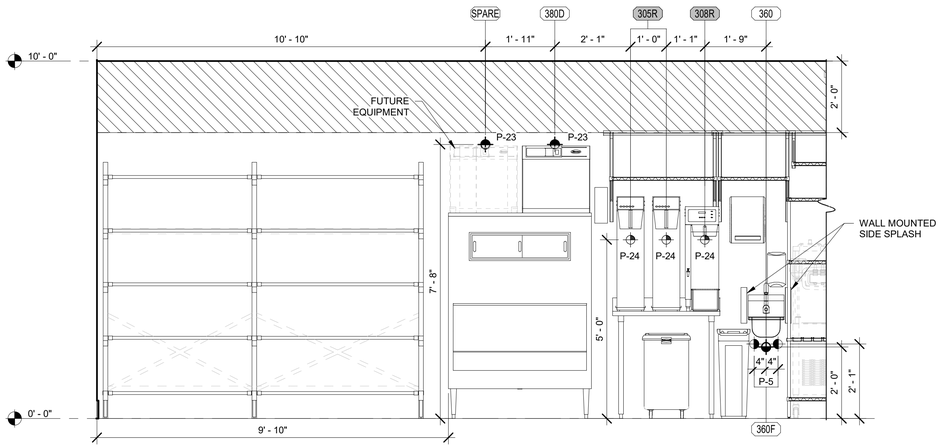
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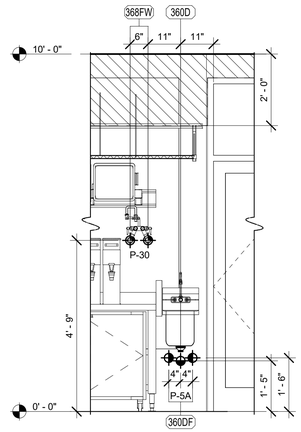
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-601

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1 DRIVE-THRU - PLUMBING
1/2" = 1'-0"



2 DRIVE-THRU - PLUMBING
1/2" = 1'-0"

PLUMBING LEGEND

###Aa	EQUIPMENT ITEM NUMBER
	HOT WATER (HW)
	COLD WATER (CW)
	TEPID WATER (TW)
	FILTERED WATER (FW)
	FILTERED WATER (FW2)
	DIRECT WASTE (DW)
	OIL RECLAMATION PORT
	GAS

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LEE'S SUMMIT

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LEE'S SUMMIT, MO 64086

#02859

BUILDING TYPE / SIZE:
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SHEET
PLUMBING ROUGH-IN ELEVATIONS

SHEET NUMBER
K-611

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60-02859-K-611-PLUMBING ROUGH-IN ELEVATIONS

EQUIPMENT SCHEDULE (NEW)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	MECHANICAL														ITEM NO.	REMARKS
						ELECTRICAL						PLUMBING									
						VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	TW	FW	FW2	IW	DW	ROUGH-IN		
101	1	SERVING COUNTER	CLAYTON FIXTURE	MLK	KEC															101	REFER TO MANUFACTURER SHOP DRAWINGS
103	12	CUP DISPENSER	SAN JAMAR MODEL #C2410C	KEC	KEC															103	
105b	21	CONDIMENT BIN (5-1/2x10-7/8x5)	INTERMETRO MODEL #SB91055CAS	KEC	KEC															105b	
105c	5	CONDIMENT BIN (8-1/4x14-3/4x7)	INTERMETRO MODEL #SB91587CAS	KEC	KEC															105c	
116S	1	REVERSE DRIVE-THRU BEVERAGE COUNTER (31"x121")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF525	KEC	KEC															116S	
116SA	1	REVERSE DRIVE-THRU COUNTER (30"x16")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF670	KEC	KEC															116SA	OPEN SHELVING UNDER COUNTER
126S	1	REVERSE DRIVE-THRU DESSERT COUNTER (30"x41")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF380	KEC	KEC															126S	
180	2	ORDER REGISTER	NCR MODEL #P1230	IT	IT	120	1		0.7		5-20P									180	
180a	2	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT															180a	USED TO MOUNT ORDER MONITORS
182a	1	PRINTER CADDY	ONSITE	IT	IT															182a	USED TO MOUNT PRINTER TO ORDER MONITOR
182L	2	LABEL PRINTER	EPSON MODEL #TM-L90	IT	IT	24	1		1.70		5-20P									182L	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	1	ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	IT	IT	120	1		0.125		5-20P									183	
183a	1	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT															183a	USED TO MOUNT ORDER MONITORS
192	1	INFINITY RAIL (84")	ERGOMART MODEL #RT-84-CAB	DTT	GC															192	
200S	2	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS MODEL #TCN040-SW	KEC	KEC															200S	
200U	1	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS MODEL #TCN040-US	KEC	KEC															200U	
202	1	SLIM JIM TRASH CAN	RUBBERMAID MODEL #FG354060GRAY	SML	OWN															202	PROVIDED BY CLARK
206	1	SOAP DISPENSER	ECOLAB MODEL #92211379	VEN	VEN															206	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
211B	2	FLY SYSTEM	GENUS COBRA MODEL #107000-00	KEC	EC	120	1	0.10	0.60		5-15P									211B	CLOCK STYLE RECEPTACLE REQUIRED
359	1	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF460	KEC	GC															359	RIGHT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
359L	2	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF459	KEC	GC															359L	LEFT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
360	1	HAND SINK	EAGLE MODEL #YCFA-HSAN-0004-00	KEC	PC													1 1/2"	P-5	360	WITH SIDE MOUNTING BRACKETS
360D	1	DUMP SINK	ATLANTA CUSTOM FABRICATORS MODEL #3ACF354	KEC	PC													1 1/2"		360D	PROVIDED WITH BASKET DRAIN AND PERFORATED SCRAP BASKET
360DF	1	FAUCET (DUMP SINK)	T&S MODEL #B-1146-CFA-VF05	PC	PC							1/2"	1/2"						P-5A	360DF	PROVIDED BY HJC
360F	1	SENSOR FAUCET (WALL MOUNTED HAND SINK)	TOTO MODEL #TEL165-C20E#CP	PC	PC							1/2"	1/2"						P-5	360F	PROVIDED BY HJC WITH THP3094 NOZZLE
368FW	1	FILTERED WATER FAUCET (WALL MOUNTED)	T&S MODEL #B-0599-CR	PC	PC										1"				(2) P-30	368FW	(2) FW - PROVIDED BY HJC
380a	1	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	KEC	RSUB	120	1	0.0096			5-15P									380a	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380CD	1	ICE MACHINE REMOTE CONDENSING UNIT	FOLLETT HORIZON ELITE			208	3	3.600	15.70		DIRECT CONNECTION									380CD	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380D	1	ICE MACHINE	FOLLETT MODEL #HMF1810RBT	KEC	PC	115	1	0.368	5.00		5-15P					1/2"	3/4"		P-23	380D	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
384	1	ICE BIN (48" WIDE X 69" HIGH)	FOLLETT MODEL #SG1300S-48	KEC	KEC												1"			384	ORDER WITH 10 IN LEGS AND ICE PADDLE
420L	1	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1	0.564	4.70	0.2	5-20P									420L	HINGE LEFT - ORDER ON 4" CASTERS
421	2	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT48-ZCF-LR	KEC	KEC	115	1	0.756	6.30	0.20	5-15P									421	ORDER ON 4 IN CASTERS
636B	1	FOOD PREP TABLE	EAGLE MODEL #T3060STE-BS	KEC	KEC															636B	WITH BACKSPLASH - ORDER ON 5" CASTERS
660	1	PAPER TOWEL DISPENSER	SAN JAMAR MODEL #T1490TBK	KEC	KEC															660	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
702	4	WALL MOUNT SINGLE RAIL	U-LINE MODEL #H-4681	KEC	KEC															702	SUPPORT FOR STORAGE BINS
1262H	1	CANTILEVERED SHELVING (5T 2136 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1262H	METROSEAL GRAY - WITH 86" UPRIGHTS & (5) 21x36 WIRE SHELVES
1262HA	1	CANTILEVERED SHELVING (5T 2136 DRY STORAGE ADD)	INTERMETRO	KEC	KEC															1262HA	METROSEAL GRAY - WITH 86" UPRIGHT & (5) 21X36 WIRE SHELVES
1264H	2	CANTILEVERED SHELVING (5T 2148 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1264H	METROSEAL GRAY - WITH 86" UPRIGHTS & (5) 21x48 WIRE SHELVES
1265HA	1	CANTILEVERED SHELVING (5T 2154 DRY STORAGE ADD)	INTERMETRO	KEC	KEC															1265HA	METROSEAL GRAY - WITH 86" UPRIGHT & (5) 21X54 WIRE SHELVES
1300d	4	VERTICAL SHELF DIVIDER (21" HIGH X 24" DEEP)	INTERMETRO MODEL #DD24K4-21H	KEC	KEC															1300d	METROSEAL GRAY- MOUNTED TO SHELF - NOT SHOWN ON PLAN
1330	1	FLOOR SHELF UNIT (74" POST, 24"x24")	INTERMETRO	KEC	KEC															1330	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1380	1	GEN3 SHELF (24"x24")	INTERMETRO	KEC	KEC															1380	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1380I	1	GEN3 INVERTED SHELF KIT (24"x24")	INTERMETRO	KEC	KEC															1380I	METROSEAL GRAY - (1) 24"x24" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382	1	GEN3 SHELF (24"x36")	INTERMETRO	KEC	KEC															1382	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382I	3	GEN3 INVERTED SHELF KIT (24"x36")	INTERMETRO	KEC	KEC															1382I	METROSEAL GRAY - (1) 24"x36" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1384I	1	GEN3 INVERTED SHELF KIT (24"x48")	INTERMETRO	KEC	KEC															1384I	METROSEAL GRAY - (1) 24"x48" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1385I	1	GEN3 INVERTED SHELF KIT (24"x54")	INTERMETRO	KEC	KEC															1385I	METROSEAL GRAY - (1) 24"x54" SHELF, (1) 72" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION

EQUIPMENT SCHEDULE (REUSED/RELOCATED EQUIPMENT)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL														ITEM NO.	REMARKS
				ELECTRICAL						PLUMBING									
				VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	TW	FW	FW2	IW	DW	ROUGH-IN		
101aR	1	UNDER COUNTER STRAW HOLDER	EQUIPMENT TO BE REUSED/RELOCATED															101aR	
102R	1	STAINLESS STEEL LID & CONDIMENT HOLDER	EQUIPMENT TO BE REUSED/RELOCATED															102R	CUP LID / CONDIMENT BIN WITH SAUCE BIN EXTENDER
180R	3	ORDER REGISTER	EQUIPMENT TO BE REUSED/RELOCATED	120	1		0.70		5-20P									180R	
181R	3	CASH DRAWER	EQUIPMENT TO BE REUSED/RELOCATED															181R	
182R	2	RECEIPT PRINTER	EQUIPMENT TO BE REUSED/RELOCATED	other	1		1.80		5-20P									182R	
183aR	2	RADIAL ARM	EQUIPMENT TO BE REUSED/RELOCATED															183aR	
183cR	1	COUNTER MOUNT POLE	EQUIPMENT TO BE REUSED/RELOCATED															183cR	USED TO MOUNT ORDER MONITORS
183R	3	ORDER MONITOR	EQUIPMENT TO BE REUSED/RELOCATED	120	1		0.125		5-20P									183R	
190aR	1	RADIAL ARM	EQUIPMENT TO BE REUSED/RELOCATED															190aR	
190R	1	DRIVE-THRU VIDEO MONITOR	EQUIPMENT TO BE REUSED/RELOCATED	120	1		0.8		5-20P									190R	
200SR	2	SLIM LINE TEA DISPENSER (SWEET)	EQUIPMENT TO BE REUSED/RELOCATED															200SR	
200UR	1	SLIM LINE TEA DISPENSER (UNSWEET)	EQUIPMENT TO BE REUSED/RELOCATED															200UR	
201R	1	ICE CREAM CONE DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED															201R	
210R	1	INGREDIENT BIN	EQUIPMENT TO BE REUSED/RELOCATED															210R	
300aR	1	MILKSHAKE BASE DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED	120	1		4.00		5-20P									300aR	MOUNTED ON ITEM #300b
300bR	1	MILKSHAKE BASE DISPENSER SHELF	EQUIPMENT TO BE REUSED/RELOCATED															300bR	
300cR	2	SINGLE-SPINDLE MIXER	EQUIPMENT TO BE REUSED/RELOCATED															300cR	
300dR	1	TOPPING DISPENSER/HOLDER	EQUIPMENT TO BE REUSED/RELOCATED															300dR	MOUNTED ON ITEM #300X - LEFT HAND MOUNT
300XR	1	DOUBLE BARREL ICE CREAM MACHINE	EQUIPMENT TO BE REUSED/RELOCATED	208	3		19.00/15.00	1.50/1.50	15-30P/15-20P									300XR	
301CR	1	CUP DISPENSER & LID ORGANIZER	EQUIPMENT TO BE REUSED/RELOCATED															301CR	
305R	2	TEA BREWER	EQUIPMENT TO BE REUSED/RELOCATED	120	1	1.650	13.80						3/8"				P-24	305R	
308eR	1	SYRUP RACK	EQUIPMENT TO BE REUSED/RELOCATED															308eR	
308R	1	SINGLE COFFEE MAKER	EQUIPMENT TO BE REUSED/RELOCATED	208	1	4.000	19.20		L14-30P				3/8"				P-24 @ 60"	308R	
310R	2	DOUBLE LEMONADE BUBBLER	EQUIPMENT TO BE REUSED/RELOCATED	120	1		8.50	0.10	5-15P									310R	
315WR	3	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	EQUIPMENT TO BE REUSED/RELOCATED	115	1		10.00		5-15P/5-15P						3/4"			315WR	
622LR	1	FOOD PREP TABLE	EQUIPMENT TO BE REUSED/RELOCATED															622LR	
671R	13	MENU BOX	EQUIPMENT TO BE REUSED/RELOCATED	120	1		12.5		5-20P									671R	

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
Date: 7/19/2022

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

TriMark
Foodservice Equipment, Supplies and Design
STRATEGIC

CONSTRUCTION DOCUMENTS

CHICK-FIL-A
LEE'S SUMMIT

690 NORTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64086

#02859

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #
PRINTED FOR: CONSTRUCTION DOCUMENTS
DATE 06/23/22
DRAWN BY RMW

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SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-801

BIM 360://MO_02859_Summit Fair FSU_2022.5_TRO/02859_Summit Fair FSU_MO_Rollout_EQK.rvt
6/23/2022 3:53:53 PM
60-02859-K-801-EQUIPMENT SCHEDULE

FLOOR PLAN KEY	ELEVATION TAG	DECOR TAG
	1	1

WALL KEY	DIVIDER WALL by CHi	LOW WALL by G.C.	FULL HT. WALL by G.C.	DEMO WALLS KNEEWALL / MISC. by G.C.	EXISTING WALL to REMAIN / MULTI-USE

SEATING & TABLE SCHEDULE	TABLE TOP STYLES	SINGLES	2 TOPS	3 TOPS	4 TOPS	5 TOPS	6 TOPS	7 TOPS	8 TOPS	10 TOPS	TOTALS
	TABLE TOP QUANTITY	6	10	-	7	-	1	-	-	-	24
	SEAT QUANTITY	6	20	-	28	-	6	-	-	-	60

ACCESSIBLE TABLE COUNT: 3 — SEATING TO TABLE RATIO: 2.5

STEEL KEY

CORE-DRILLED STEEL SYMBOLS	GENERIC	12" X 12" PLATE	12" X 12" PLATE (OFFSET)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS
	TAPERED					

BOLT-DOWN STEEL SYMBOLS	GENERIC	12" X 12" PLATE (ROUND)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS
	TAPERED				

FREESTANDING STEEL SYMBOLS	X-BASE	BI-POD

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT SPECIFICATIONS FOR PRODUCT DESCRIPTIONS DETAILED IN PLAN.

PRODUCT KEY

NOTE: REFER TO FURNITURE FLOOR PLAN FOR LAYOUT.	NEW	RELOCATED	EXISTING
			NO HATCH USED

BUILDING SHELL USED FOR FURNITURE PLANS PROVIDED BY SITE ADAPT ARCHITECT.

VERIFY DINING ROOM DIMENSIONS FOR FURNITURE & MESSAGING.

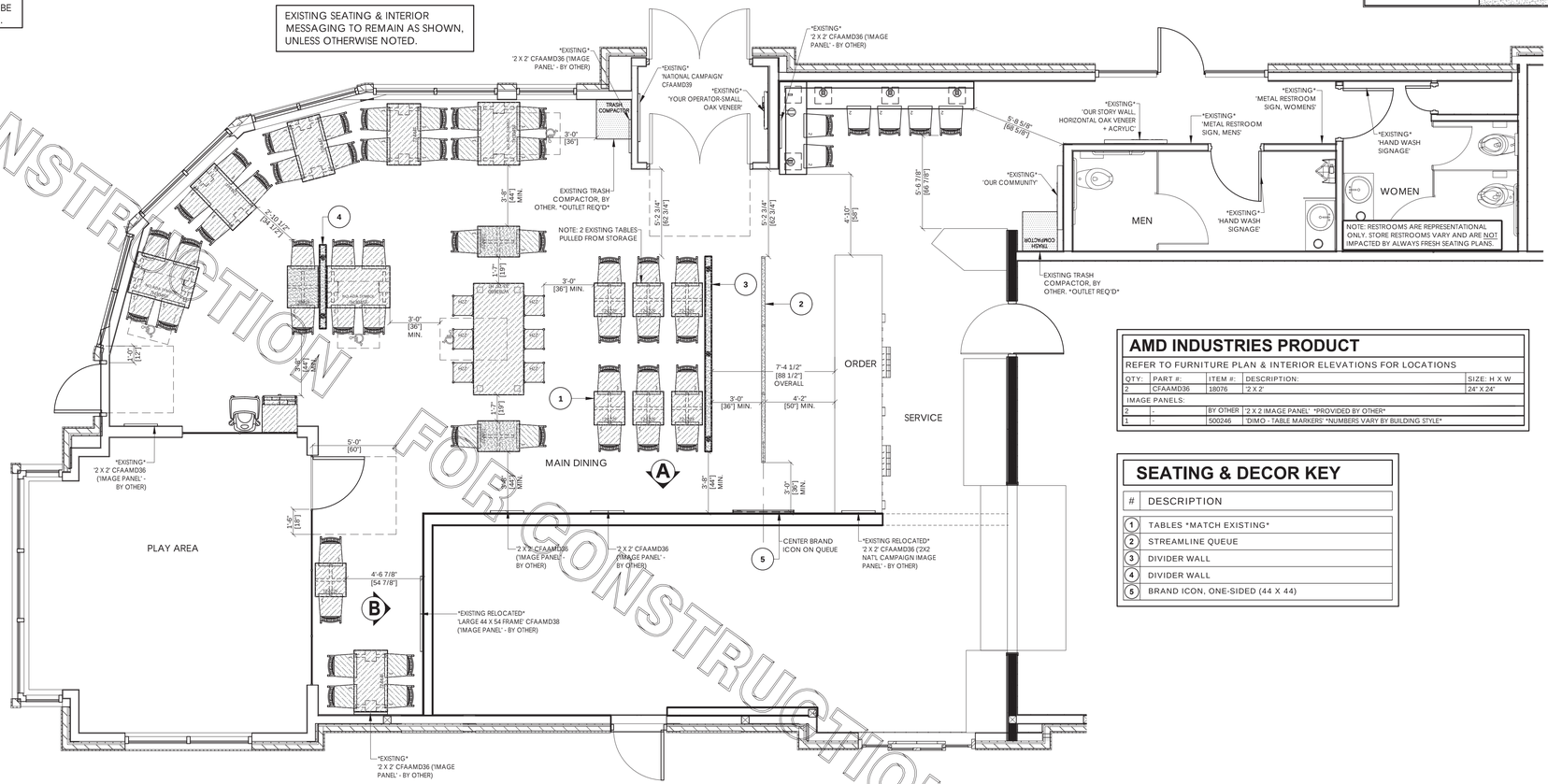
SEATING LAYOUT PROVIDED BY ARCHITECT. ARCHITECT IS RESPONSIBLE FOR SEATING PLAN MEETING CODE REQUIREMENTS (LOCAL OR OTHER).

NOTE: CONDIMENTS AND TRASH ARE NOTED FOR SPACE PLANNING PURPOSES ONLY. EXACT MODELS AND DETAILS ON THOSE ITEMS TO BE DETERMINED BY THE MILLWORK PROVIDER. CLAYTON FIXTURES (CFX).

INTERNATIONAL BUILDING CODE
ACCESSIBLE WHEELCHAIR SPACES

CAPACITY OF SEATING IN ASSEMBLY AREAS	MINIMUM NUMBER OF WHEELCHAIR SPACES
4 TO 25	1
26 TO 50	2
51 TO 100	4
101 TO 300	5

EXISTING SEATING & INTERIOR MESSAGING TO REMAIN AS SHOWN, UNLESS OTHERWISE NOTED.



AMD INDUSTRIES PRODUCT

REFER TO FURNITURE PLAN & INTERIOR ELEVATIONS FOR LOCATIONS

QTY:	PART #:	ITEM #:	DESCRIPTION:	SIZE: H X W
2	CFAAMD36	18076	'2 X 2'	24" X 24"
IMAGE PANELS:				
2	-	BY OTHER	'2 X 2 IMAGE PANEL' *PROVIDED BY OTHER*	
1	-	500246	'DIMO - TABLE MARKERS' *NUMBERS VARY BY BUILDING STYLE*	

SEATING & DECOR KEY

#	DESCRIPTION
1	TABLES *MATCH EXISTING*
2	STREAMLINE QUEUE
3	DIVIDER WALL
4	DIVIDER WALL
5	BRAND ICON, ONE-SIDED (44 X 44)

Project Contacts

PLEASE CONTACT ONE OF THE FOLLOWING CHI TEAM MEMBERS TO ADDRESS CONCERNS YOU MAY HAVE.

CHARTER HOUSE HOLDINGS, LLC
Phone: 616.399.6000

***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
Jordan Kopp	Phone: 616.796.1166
Ashley Thibodeau	Phone: 616.796.1191

Customer Service Inquiries:
Phone: 616.796.1020

CHI Project Log

DATE	#	DESCRIPTION	INITIALS
05.16.22		LAYOUT	JAO
06.23.22	1	CONSTRUCTION SET	JAO
00.00.00	-	--	--
00.00.00	-	--	--
00.00.00	-	--	--
00.00.00	-	--	--
00.00.00	-	--	--

PROJECT: Chick-fil-A — STORE #: 2859 — BLDG. SHELL: S08N-SM-R DT EXPANSION
LOCATION: LEES SUMMIT, MO
ADDRESS: ---
NICKNAME: LEES SUMMIT FSU
DESIGN: JAO — FDD SET: --- — FDD CHECK: ---
PROJECT MGR: ASHLEY THIBODEAU
SALES MGR: JULIA WOODWARD
SET ISSUED DATE: 23 JUNE 2022
DRAWING TITLE: FLOOR PLAN
STORE NUMBER: 2859 — SCALE: 1/4" = 1'-0"

General Contractor Notes and Information

*CHARTER HOUSE HOLDINGS, L L C / CHARTER-HOUSE INNOVATIONS / CHi / CHARTER-HOUSE

GENERAL CONSTRUCTION
1. ALL WORK, CONSTRUCTION, AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE UNIFORM BUILDING CODE AND WITH OTHER 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 AND THE 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 AND 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 AND DISTRIBUTING CHARTER-HOUSE PLANS AND 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 AND CONTACT CHI WILL ABSOLVE CHI FROM RESPONSIBILITY.
2. INSPECT THE EXTERIOR OF ALL PACKAGING AND VERIFY BILL OF LADING. * CHECK FOR TEARS, CRUSHING, HOLES, ETC.,... * COMPARE SHRINK-WRAP OR TAPE AND 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 AND SPECIFY NOTATIONS ON THE CARRIER'S RECEIPT. IF THE DELIVERING PARTY REFUSES, INSIST ON A NOTATION OF WHAT YOU HAVE NOTICED AND 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 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 AND REMODEL PROJECTS
1. 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.
2. CHI REQUESTS VERIFICATION OF FIELD DIMENSIONS FROM THE GENERAL CONTRACTOR FOR THE FABRICATION OF COMMERCIAL FURNITURE, DÉCOR, CORE DRILL, AND SPACE PLANS. WHEN FIELD DIMENSIONS CAN NOT BE ATTAINED, LATE SHIPMENTS MAY RESULT.
3. IF SPECIFIED ITEMS ARE NOT AVAILABLE, CONTACT YOUR PROJECT MANAGER AT CHI.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY CHI OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
5. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 LBS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
6. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSAL OF ALL PACKAGING MATERIAL FROM SEATING AND DECOR PRODUCTS.
7. G.C. TO POSITION THERMOSTAT / VOLUME CONTROL / AND OTHER LIKE ITEMS TO NOT INTERFERE WITH THE CHI DÉCOR.

REMODEL PROJECTS ONLY
1. IN CASES OF REMODELING; THE EXISTING SEATING, STEEL, DECOR, AND 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 ANY CONFLICTS BETWEEN CHI DECOR AND ELECTRICAL OR HVAC PLACEMENT.

FLOORING NOTES
1. A MINIMUM 5" CONCRETE SLAB IS REQUIRED FOR ALL CORE DRILLING.
2. ALL FLOOR AND COVE BASE TILE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
3. NEW FLOOR AND 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 ON ALL CHI DIVIDER WALLS TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

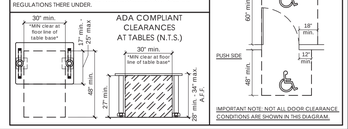
ELECTRICAL, HVAC, AND CEILING NOTES
1. G.C. TO SUPPLY AND CONNECT ELECTRICAL PIGTAIL AT ALL CODED LOCATIONS FOR CHI PRODUCT.
2. ALL ELECTRICAL FIXTURES, WIRING, AND INSTALLATIONS TO BE UL APPROVED.
3. LIGHTING FIXTURES AND/OR HVAC MAY NEED TO BE RELOCATED BY G.C. TO ACCOMMODATE DÉCOR AND ELECTRICAL OR HVAC PLACEMENT. PLEASE CONTACT YOUR CHI PROJECT MANAGER CONCERNING ANY CONFLICTS BETWEEN PLACEMENT OF CHI DÉCOR ELEMENTS.
4. GENERAL CONTRACTOR TO CONTACT CONSTRUCTION ENGINEER TO VERIFY FINAL PLACEMENT OF HVAC.

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. **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 ENGINEER 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.

SITE CONDITIONS FOR CHI DÉCOR INSTALLATION
1. IT IS IMPORTANT FOR THE FOLLOWING WORK TO BE COMPLETE 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 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.

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.



Project Contents
- (●) **F-201 FURNITURE FLOOR PLAN** | Furniture and Decor Locations
- ( ) **F-201A AF2021 INSTALLATION PLAN** | Furniture and Decor Locations
- ( ) **F-202 TABLE NUMBER PLACEMENT PLAN** | Locations (Final plans ONLY)
- (●) **F-211 CORE DRILL PLAN** | Steel Locations & Details (Final plans ONLY)
- (●) **F-701 DECOR ELEVATIONS** | Typical Locations (as applicable)
  PRODUCT DETAILS | Seating & Decor Details

PRELIMINARY DESIGN DRAWINGS --
NOT FOR CONSTRUCTION
DRAWING IS FOR APPROVAL OF DESIGN AND SPECIFICATIONS ONLY. DESIGN IS SUBJECT TO CHANGE BASED ON VERIFICATION OF ARCHITECTURAL INFORMATION PROVIDED. GENERAL CONTRACTOR TO VERIFY BUILDING DIMENSIONS BEFORE INSTALLATION OF ANY CHARTER HOUSE HOLDINGS, LLC PRODUCT CAN BEGIN.

FOR CONSTRUCTION FOR CONSTRUCTION FOR CONSTRUCTION

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
Date: 7/19/2022

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal

CHARTER HOUSE HOLDINGS, LLC
200 N. Franklin Street
Zeeland, MI 49464
Phone: 616.399.6000 Fax: 616.796.1199
www.gotochi.com

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STORE
S08N-SM-R
DT EXP
LEES SUMMIT FSU
LEES SUMMIT, MO

SHEET TITLE
Furniture
Floor Plan

Job No. : ----
Store : 2859
Date : 05.16.22
Drawn By : JAO
Checked By : AT

Sheet
F-201

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
Date: 7/19/2022

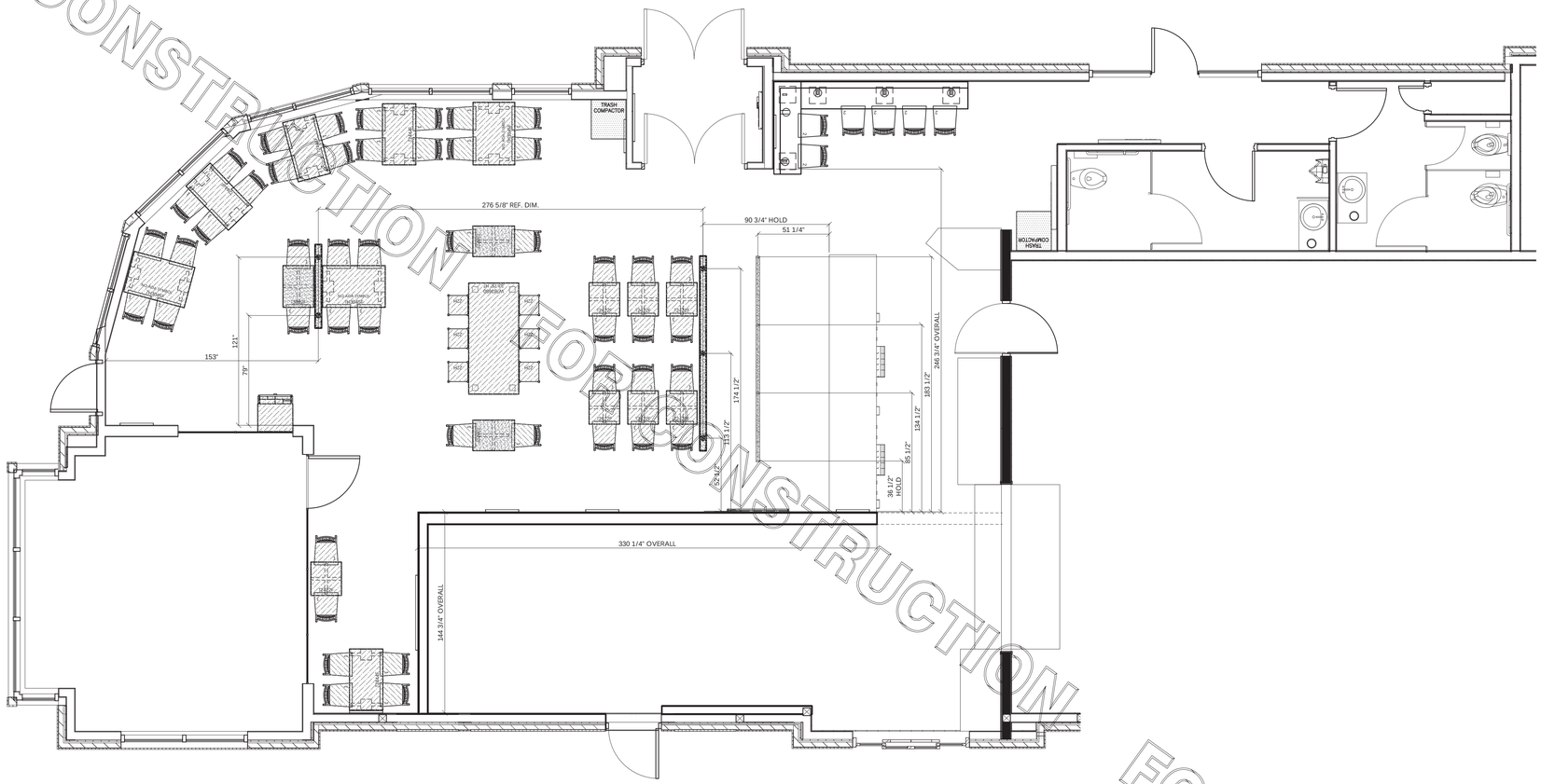
STEEL KEY	CORE-DRILLED STEEL SYMBOLS							BOLT-DOWN STEEL SYMBOLS						FREESTANDING STEEL SYMBOLS		
	GENERIC	TAPERED	12" X 12" PLATE	12" X 12" PLATE (OFFSET)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	GENERIC	TAPERED	12" X 12" PLATE (ROUND)	1" X 3" STEEL	1" X 3" STEEL (OFFSET)	FOOT RINGS	X-BASE	Bi-POD

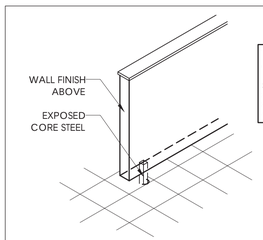
NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT SPECIFICATIONS FOR PRODUCT DESCRIPTIONS DETAILED IN PLAN.

NOTE: REFER TO FURNITURE FLOOR PLAN FOR LAYOUT.	NEW	EXISTING
PRODUCT KEY	NO HATCH USED	

NOTE: REFER TO FURNITURE FLOOR PLAN FOR LAYOUT.	NEW	RELOCATED	EXISTING
PRODUCT KEY			NO HATCH USED

FOR CONSTRUCTION





TYPICAL INSTALLATION PROCEDURE
"RAISED CORED" WALL TYPE

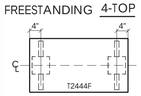
1. CORE PER CORE DRILL PLAN.
2. SET WALL IN PLACE, VERIFYING PLACEMENT AND FOR PLUMB.
3. LIFT WALL ENOUGH TO SEE THAT CORE HOLE IS FILLED LEVEL WITH POR-ROCK.
4. LOWER WALL INTO PLACE AND CHECK FOR SQUARE AND PLUMB.

DIVIDER WALL DETAIL (RAISED- CORED TO THE FLOOR)
SCALE: NTS

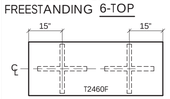
CFA TABLE STEEL

NOTE: CONTACT CHI IF TABLE SIZE/ BASE IS NOT SHOWN IN TYPICAL STEEL KEY.

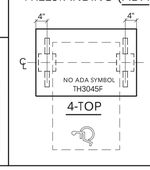
STD. HEIGHT BI-POD FREESTANDING 4-TOP



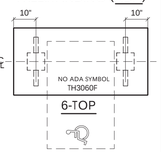
STD. HEIGHT X-BASE FREESTANDING 6-TOP

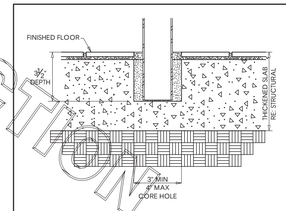


STD. HEIGHT BI-POD FREESTANDING (ADA) 4-TOP



STD. HEIGHT BI-POD FREESTANDING (ADA) 6-TOP





TYPICAL CORE HOLE DETAIL
DETAIL APPLIES TO CORE DRILLED TALL TABLES AND CORE DRILLED STREAMLINE QUEUE RAIL ONLY.

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Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Seal

CHi
CHARTER HOUSE HOLDINGS, LLC
200 N. Franklin Street
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STORE
S08N-SM-R
DT EXP

LEES SUMMIT FSU
LEES SUMMIT, MO

SHEET TITLE
Core Drill Plan

Job No. : ____
Store : 2859
Date : 05.16.22
Drawn By : JAO
Checked By: AT

Sheet
F-211

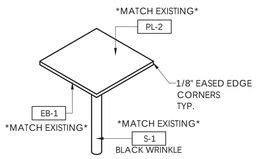
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
Dec 19, 2022

MATERIALS & FINISH SCHEDULE (FURNITURE & DECOR) - Always Fresh 19 Palette *MATCH EXISTING*

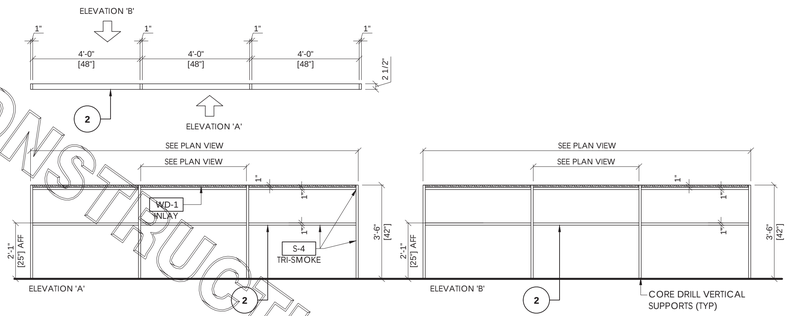
MATERIAL	CODE	MANUFACTURER	PRODUCT SPECIFICATION	SIZE	CONTACT / ADDITIONAL INFORMATION	SUPPLIER	INSTALLER	REVISION
STEEL								
	S-1	N/A	BLACK WRINKLE	N/A	CHI MANUFACTURING	CHI	N/A	
	S-2	NOT USED						
	S-3	NOT USED						
	S-4	N/A	TRI-SMOKE MINI TEX. #T1-7060	N/A	CHI MANUFACTURING	CHI	N/A	
UPHOLSTERY								
	UPH-1	NOT USED						
	UPH-2	NOT USED						
	UPH-3	NOT USED						
	UPH-4	NOT USED						
PLASTIC LAMINATE								
	PL-1	WILSONART	CAFELLE 7933-38	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	PL-2	PIONITE	CAVALCADE SOUTH, AT650	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	PL-3	NOT USED						
SOLID SURFACE								
	SS-1	AVONITE	F1-9144, PALERMO	N/A	LOCAL DISTRIBUTOR	CHI	N/A	
	NOTE: DARK SOLID SURFACES SHOW MORE WEAR OVER TIME							
EDGE BAND								
	EB-1	N/A	REHAU, NUBIAN BROWN	N/A	CHI MANUFACTURING	CHI	N/A	
DECORATIVE BOARD								
	DB-1	N/A	HDPE BLACK MARINE BOARD, 'BOAT BOARD'	N/A	CHI MANUFACTURING	CHI	N/A	
TRIMS								
	TR-1	NOT USED						
	TR-2	N/A	FURNITURE GRADE DURANODIC	N/A	CHI MANUFACTURING	CHI	N/A	
WOOD								
	WD-1	N/A	SOLID WHITE OAK	N/A	CHI MANUFACTURING	CHI	N/A	

SEATING & DECOR KEY

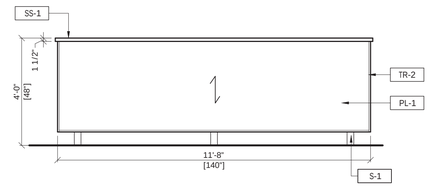
#	DESCRIPTION
1	TABLES *MATCH EXISTING*
2	STREAMLINE QUEUE
3	DIVIDER WALL
4	DIVIDER WALL
5	BRAND ICON, ONE-SIDED (44 X 44)



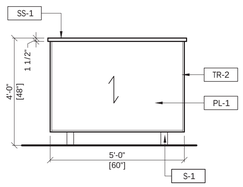
1 TABLES (TYP) *MATCH EXISTING*
SCALE: N.T.S



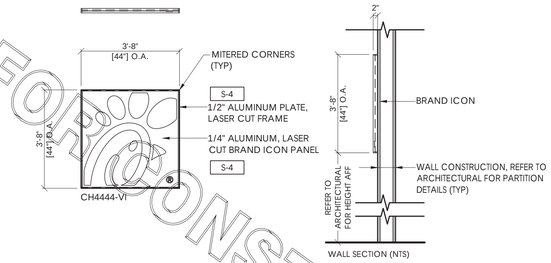
2 STREAMLINE QUEUE
SCALE: N.T.S
QTY: 1



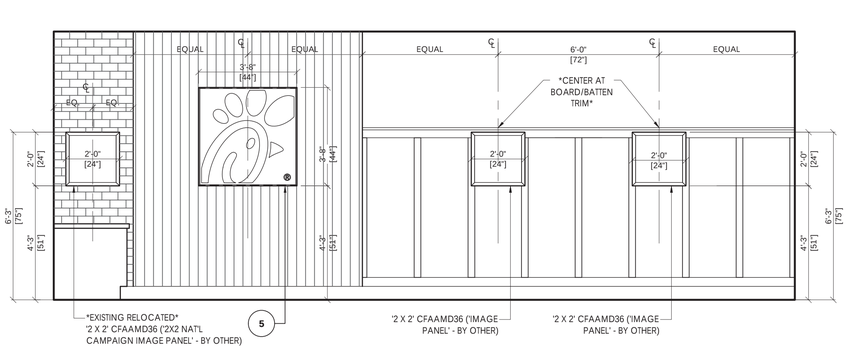
3 DIVIDER WALL
SCALE: 3/8" = 1'-0"
QTY: 1



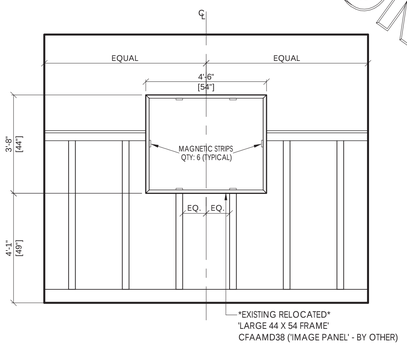
4 DIVIDER WALL
SCALE: 3/8" = 1'-0"
QTY: 1



5 BRAND ICON, ONE-SIDED (44" X 44")
SCALE: 3/8" = 1'-0"
QTY: 1



A INTERIOR MESSAGING & BRAND ICON
SCALE: 3/8" = 1'-0"



B *RELOCATED EXISTING* INTERIOR MESSAGING
SCALE: 3/8" = 1'-0"

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STORE
S08N-SM-R
DT EXP

LEES SUMMIT FSU
LEES SUMMIT, MO

SHEET TITLE
Decor Elevations & Product Details

Job No. : ----
Store : 2859
Date : 05.16.22
Drawn By : JAO
Checked By: AT

Sheet
F-701