



DOMINO'S PIZZA BAKERY STORE #1684

PIZZA THEATER TENANT IMPROVEMENT

3544 SW MARKET ST

LEE'S SUMMIT, MO 64082

GENERAL CONDITIONS:

- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAKE THEMSELVES FAMILIAR WITH THE GENERAL CONDITIONS, PLANS, AND SPECIFICATIONS AND OTHER NOTES OR REFERENCES RELATED TO THIS PROJECT SO AS TO POSSESS FULL COMPREHENSION OF THE WORK THEY ARE TO PERFORM. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- NOTHING IN THE PLANS, SPECIFICATIONS, NOTES OR REFERENCES SHALL BE INTERPRETED SO AS TO ELIMINATE ANY REQUIREMENTS OR PROVISIONS OF NATIONAL, STATE, COUNTY, OR LOCAL BUILDING CODES AND ORDINANCES. ALL CONTRACTORS ARE RESPONSIBLE FOR FULL KNOWLEDGE OF, AND COMPLIANCE WITH THE AFOREMENTIONED REGULATIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BEFORE BEGINNING THEIR WORK.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE SITE TO VERIFY ALL FIELD CONDITIONS AND DIMENSIONS RELATED TO THEIR WORK. THE GENERAL CONTRACTOR SHALL THEN SUBMIT A WRITTEN PROPOSAL OF HIS SCOPE OF WORK TO DOMINO'S FOR AN APPROVAL. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT BEFORE BEGINNING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL CONSULT WITH THE SUBCONTRACTORS AND COORDINATE THE WORK IN ORDER TO ADHERE TO THE SCHEDULE AGREED UPON BY DOMINO'S.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
 - PROVIDE SCHEDULE OF WORK TO DOMINO'S PRIOR TO COMMENCING CONSTRUCTION.
 - OBTAINING ANY AND ALL PERMITS.
 - SCHEDULING ALL INSPECTIONS.
 - PROVIDING CERTIFICATE OF OCCUPANCY AND FINAL HEALTH INSPECTION.
 - THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH FINAL INVOICE:
 - ORIGINAL OR CLEAR PHOTO COPIES OF CERTIFICATE OF OCCUPANCY PERMIT AND HEALTH INSPECTION REPORT.
 - LISTING OF SUBCONTRACTORS AND AREA OF RESPONSIBILITY, COMPLETE WITH TRADE NAME, OWNER'S NAME, ADDRESS, TELEPHONE NUMBER AND FEDERAL ID NUMBER.
 - PROPERLY EXECUTED LIEN WAIVER.
 - SERIAL NUMBERS, DATE OF MANUFACTURE OF ALL INSTALLED HVAC EQUIPMENT, MAKELINE AND WALK-IN COOLER BOX.
- UNLESS INDICATED "BY OTHERS" ON THE PLANS OR IN THE SPECIFICATIONS OR OTHERWISE DIRECTED BY DOMINO'S, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL SUPPLY ALL LABOR AND MATERIALS AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY SHOWN ON THE PLANS OR IN THE SPECIFICATIONS BUT OBVIOUSLY NECESSARY FOR THE COMPLETE AND PROPER INSTALLATION OF THEIR ELEMENTS OF WORK.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TURN OVER ALL WRITTEN OPERATING INSTRUCTIONS AND WARRANTIES FOR EQUIPMENT TO THE OWNER AT THE COMPLETION OF WORK.
- ALL WORK PERFORMED BY THE CONTRACTOR AND SUBCONTRACTORS, INCLUDING MATERIALS AND LABOR SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY DOMINO'S.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS, AT THE COMPLETION OF THEIR WORK, SHALL LEAVE THE SITE CLEAN AND FREE OF DEBRIS RELATED TO THEIR WORK, AND THE STORE FINISHED TO PASS HEALTH INSPECTIONS AND MADE READY TO COMMENCE WITH THE BUSINESS OF FOOD PREPARATION.
- THE USE OF BRAND NAMES, CATALOGUE NUMBERS OR NAMES OF MANUFACTURERS IS SOLELY FOR THE PURPOSE OF ESTABLISHING THE TYPE AND QUALITY THAT WILL BE ACCEPTABLE. UNLESS SPECIFICALLY PROHIBITED IN THE SPECIFICATIONS, SUBSTITUTION WILL BE PERMITTED AFTER SUBMITTAL TO AND WRITTEN APPROVAL BY DOMINO'S.
- IT IS RECOMMENDED THAT THE CONTRACTOR ACQUIRE THE DESIGN AND EQUIPMENT BROCHURES FROM DOMINO'S EQUIPMENT & SUPPLY FOR REFERENCE WITH THESE DOCUMENTS.
- GC IS RESPONSIBLE FOR MEANS AND METHODS FOR INSTALLATION OF WORK INDICATED ON THESE DRAWINGS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL DESIGN / BUILD INFORMATION, WHICH MAY BE REQUIRED BY LOCAL CODE AUTHORITIES, WHICH MEETS THE DESIGN CRITERIA IN THESE DOCUMENTS.

GENERAL NOTES:

- THE OWNER HAS REQUESTED THAT THE ARCHITECT PREPARE THESE DRAWINGS, WHICH ARE LIMITED IN SCOPE, TO ESTABLISH MINIMUM GUIDELINES FOR DESIGN OF THE PROJECT.
- WHERE MATERIALS, ASSEMBLIES, EQUIPMENT, FIXTURES AND SYSTEMS ARE NOT SHOWN, OR ARE SHOWN DIAGRAMMATICALLY, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE SPECIFIC LOCATIONS, PROVIDE SPECIFIC MATERIALS AND DETERMINE CONSTRUCTION DETAILING, ALL IN COMPLIANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, AND INDUSTRY STANDARDS FOR MATERIALS AND METHODS OF INSTALLATION.
- ALL DRAWINGS HAVE BEEN PREPARED WITH THE INTENT OF CURRENT CODE COMPLIANCE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE FULL COMPLIANCE WITH PREVAILING STATE OR LOCAL CODE REQUIREMENTS.
- DO NOT SCALE THE DRAWINGS. IF DIMENSIONAL DISCREPANCIES ARISE, CONTACT THE ARCHITECT.
- DIMENSIONS OF THE EXISTING TENANT SPACE AND NEW DIMENSIONS WHICH RELATE TO THOSE EXISTING DIMENSIONS ARE ASSUMED AND TAKEN FROM INFORMATION PROVIDED BY THE OWNER OR OWNERS REPRESENTATIVES. IT IS IMPERATIVE THAT PRIOR TO THE ORDERING OF PREFABRICATED EQUIPMENT OR COMMENCING CONSTRUCTION THESE DIMENSIONS ARE FIELD VERIFIED TO AVOID CONFLICTS.
- ANY DISCREPANCIES BETWEEN PORTIONS OF THE DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED OR LABELED FINISHED OPENING (F.O.).
- ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING CODES AND LOCAL DESCRIPTIONS.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING WORK SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS.
- CONSTRUCTION MAY NOT BEGIN UNTIL APPROVAL HAS BEEN GRANTED BY DOMINO'S. THESE DRAWINGS ARE SUBJECT TO DOMINO'S APPROVAL.

PROJECT DIRECTORY:

OWNER / DEVELOPER

DESZ MANAGEMENT LLC DBA DOMINO'S
3901 BLUE RIDGE CUTOFF
KANSAS CITY, MO 64133
TEL: (816)501-8388
E: SCOVEY@DTPIZZA.ORG

ARCHITECT CONTACT INFORMATION

GNICH ARCHITECTURE STUDIO, LLC
AN OREGON LIMITED LIABILITY COMPANY
1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
TEL: (503) 552-9079
FAX: (503) 241-7055
ATTN: DAVID COBIELLA, PROJECT MANAGER
DAVIDC@GNICHARCH.COM

SUBMITTALS BY OTHERS:

EXTERIOR SIGNAGE

SIGN VENDOR SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING SEPARATE SIGNAGE PERMITS AS REQUIRED BY LOCAL JURISDICTION.

FIRE ALARM SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

FIRE SUPPRESSION / SPRINKLER SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

DRAWING INDEX:

GENERAL INFORMATION

- G1.0 COVER SHEET
- G2.0 CONSTRUCTION SPECIFICATIONS/ ACCESSIBILITY DETAILS

ARCHITECTURAL

- FLS1.0 FIRE/ LIFE SAFETY PLAN
- A1.0 EQUIPMENT LAYOUT/ COUNTER CABINETS/ SCHEDULES
- A2.0 PARTITION & FINISH PLAN/ DETAILS/ MATERIAL SCHEDULE/ DOOR SCHEDULE
- A3.0 REFLECTED CEILING PLAN/ DETAILS
- A4.0 INTERIOR ELEVATIONS/ ART PACKAGE SCHEDULE
- A5.0 INTERIOR ELEVATIONS
- A6.0 INTERIOR DETAILS

ELECTRICAL

- E1.0 ELECTRICAL ONE-LINE DIAGRAM/ PANEL SCHEDULE/ CALCULATIONS
- E2.0 ELECTRICAL LIGHTING PLAN
- E3.0 ELECTRICAL POWER PLAN

MECHANICAL

- M1.0 MECHANICAL SCHEDULES, CALCULATIONS AND LEGEND
- M2.0 MECHANICAL PLAN
- M3.0 MECHANICAL DETAILS AND SEQUENCE OF OPERATIONS
- M4.0 MECHANICAL DETAILS
- M5.0 MECHANICAL ENERGY CERTIFICATE
- M6.0 MECHANICAL GENERAL NOTES AND SPECIFICATIONS

PLUMBING

- P1.0 PLUMBING LEGEND, CALCULATIONS AND SCHEDULES
- P2.0 POTABLE WATER & GAS PLUMBING PLAN
- P2.1 SANITARY SEWER PLUMBING PLAN
- P3.0 PLUMBING DETAILS
- P4.0 PLUMBING SPECIFICATIONS AND GREASE INTERCEPTOR SIZING & DATA

SYMBOL LEGEND

- SECTION REFERENCE
- DOOR SCHEDULE REFERENCE
- CENTERLINE
- MASTER MATERIAL SCHEDULE REFERENCE
- EQUIPMENT SCHEDULE REFERENCE
- ART PACKAGE REFERENCE
- WALL ASSEMBLY TYPE REFERENCE
- CABINET SCHEDULE REFERENCE
- FURNITURE SCHEDULE REFERENCE
- ELEVATION REFERENCE
- ENLARGED DETAIL REFERENCE
- REVISION TAG
- REVISION CLOUD

PROJECT STATISTICS:

SCOPE

THIS DOMINO'S PIZZA THEATER TENANT IMPROVEMENT PROJECT INCLUDES: THE ADDITION OF NEW INTERIOR PARTITIONS, CASEWORK, FIXED FURNITURE, KITCHEN EQUIPMENT, PLUMBING FIXTURES, ELECTRICAL DISTRIBUTION AND MECHANICAL SYSTEMS FOR A RETAIL FOOD BAKERY AND STORE.

CODE SUMMARY

- BUILDING CODE 2018 IBC
- MECHANICAL CODE 2018 IMC
- PLUMBING CODE 2018 IPC
- ENERGY CODE 2018 IECC
- FUEL GAS CODE 2018 IFGC
- FIRE CODE 2018 IFC
- ELECTRICAL CODE 2017 NEC

ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DOMINO'S PIZZA BAKERY IS INTENDED PRIMARILY FOR DELIVERY AND CARRY OUT WITH MINIMAL SEATING FOR WAITING CUSTOMERS.

IBC SECTION 303.1
EXCEPTION 1. A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

BUILDING DATA

CONSTRUCTION TYPE IIB
AUTOMATIC SPRINKLER SYSTEM YES

TOTAL AREA OF DOMINO'S TENANT SPACE:
1,220 S.F. GROSS

OCCUPANT LOAD SUMMARY

OCCUPANCY CLASSIFICATION: GROUP B (LESS THAN 50 OCCUPANTS)

IBC SECTION 303.1
EXCEPTION 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
EXCEPTION 3. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LOBBY AREA
GROSS AREA = 106 S.F.
LOAD FACTOR @ 1/100 BUSINESS
OCCUPANT LOAD = 2

PRODUCTION AREA
GROSS AREA = 472 S.F.
LOAD FACTOR @ 1/200 KITCHEN, COMMERCIAL
OCCUPANT LOAD = 3

STORAGE AREA
GROSS AREA = 591 S.F.
LOAD FACTOR @ 1/300 ACCESSORY STORAGE
OCCUPANT LOAD = 2

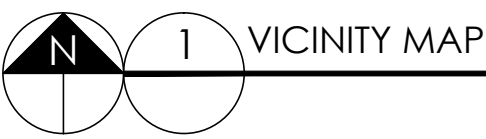
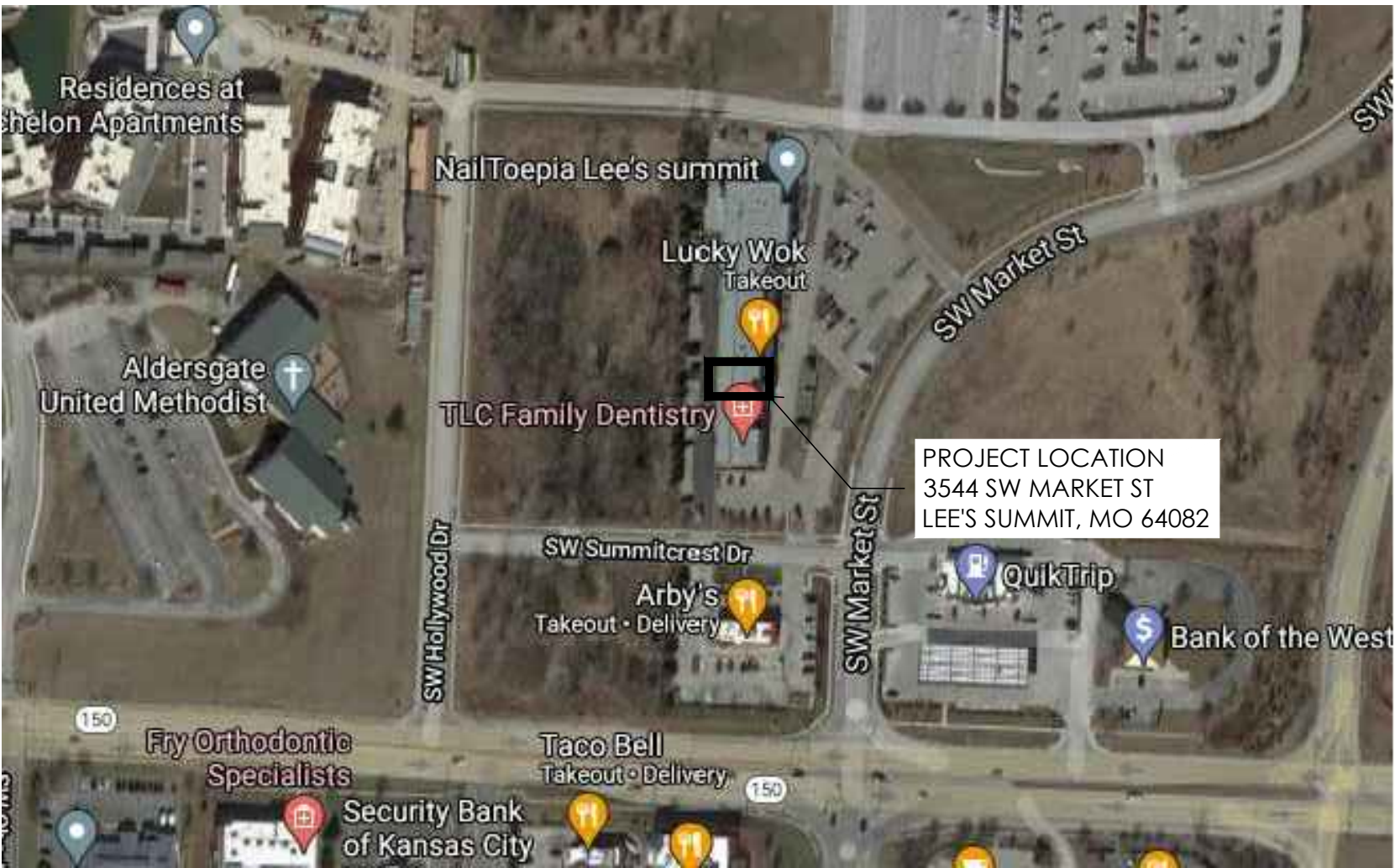
TOTAL OCCUPANT LOAD = 7

EXITS:
CUSTOMER AREA = 1
TOTAL EXITS = 2

7 PERSONS IN THIS SPACE X .20' / PERSON = 1.4 INCHES MIN. REQ'D
EXIT WIDTH PROVIDED = 73.5 INCHES PROVIDED

TOILETS:
TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

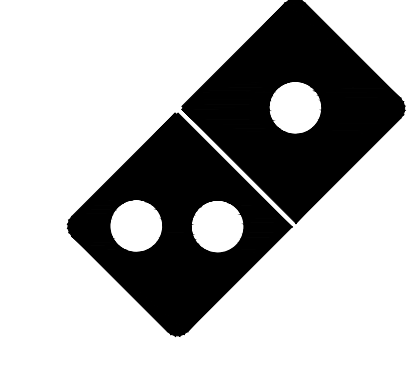
RESPONSIBILITY SCHEDULE											REMARKS
ITEM	PROVIDED BY OWNER	INSTALLED BY OWNER	PROVIDED BY VENDOR	INSTALLED BY G.C.	INSTALLED BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	
DIVISION 01 - GENERAL REQUIREMENTS											
PERMITS, FEES, AND INSURANCE				●							
PROFESSIONAL CLEANING											
TEMPORARY POWER / WATER				●	●						
CERTIFICATE OF OCCUPANCY				●	●						
DUMPSTER / TRASH REMOVAL				●	●						
DIVISION 02 - SITE WORK											
TRENCHING AND BACKFILL				●	●						
SHORING AND BRACING				●	●						
TEMPORARY BARRICADES				●	●						
PAVING PATCHING AND REPAIR				●	●					COORDINATE REQUIREMENTS w/ CITY AUTHORITIES	
DIVISION 03 - CONCRETE											
FLOOR SLAB CUTTING				●	●					AS REQUIRED	
CONCRETE SLAB PATCHING AND REPAIR				●	●						
DIVISION 04 - MASONRY											
CLAY MASONRY UNITS				●	●						
CONCRETE MASONRY UNITS				●	●						
DIVISION 05 - METALS											
LIGHT GAUGE METAL FRAMING				●	●						
COLD FORMED METAL FRAMING				●	●						
DIVISION 06 - WOOD AND PLASTICS											
MISCELLANEOUS BLOCKING				●	●						
WOOD MOLDINGS AND TRIM				●	●						
FRAMING LUMBER				●	●						
FIRE RETARDANT LUMBER / PLYWOOD				●	●						
MILLWORK	●			●	●						
PVC TRIM, CHAIR RAIL AND CORNER GUARDS				●	●						
DIVISION 07 - THERMAL AND MOISTURE PROTECTION											
INSULATION (DUCTWORK)				●	●			H			
SEALANTS, FIRESTOPPING AND CAULKING				●	●						
BATT, RIGID AND FOAMED INSULATION				●	●					IF REQUIRED	
SOUND BATT INSULATION				●	●					IF REQUIRED	
DIVISION 08 - DOORS AND WINDOWS											
DOOR HARDWARE AND EXIT DEVICES				●	●						
GLASS AND GLAZING				●	●						
INTERIOR DOORS AND FRAMES				●	●						
DIVISION 09 - FINISHES											
ACOUSTICAL CEILINGS AND SUSPENSION SYSTEMS				●	●						
GYPSUM BOARD (WALLS, SOFFITS AND CEILINGS)				●	●						
FLOOR TILE				●	●						
VINYL AND / OR SEAMLESS BASE				●	●						
REDUCERS AND TRANSITION STRIPS				●	●						
PAINTS AND COATINGS				●	●						
SHEET GOODS				●	●						
DIVISION 10 - SPECIALTIES											
EXTERIOR SIGNAGE	●	●									
EXTERIOR AWNING			●	●		●				IF REQUIRED	
INTERIOR GRAPHICS PACKAGE (DOOR SIGNS, ETC.)	●										
ACCESSIBILITY SIGNAGE				●	●						
TOILET ROOM ACCESSORIES				●	●						
DIVISION 11 - EQUIPMENT											
COMPUTERS / DATA	●	●								E.C. TO RUN CONDUIT IF REQUIRED BY LOCAL MUNICIPALITY	
TELECOMMUNICATIONS EQUIPMENT	●	●									
VIDEO EQUIPMENT	●	●									
KITCHEN EQUIPMENT	●	●			●			K			
DIVISION 12 - FURNISHINGS											
SEATING	●	●			●						
MISCELLANEOUS DECOR ITEMS	●	●									
DIVISION 13 - SPECIAL CONSTRUCTION											
NO WORK REQUIRED UNDER THIS SECTION											
DIVISION 14 - CONVEYING SYSTEMS											
NO WORK REQUIRED UNDER THIS SECTION											
DIVISION 15 - MECHANICAL AND PLUMBING											
WATER SUPPLY				●	●			H			
DAMPERS				●	●			H			
DIFFUSER / GRILLES				●	●			H			
H.V.A.C. HEATING AND COOLING UNITS				●	●						
H.V.A.C. DUCTWORK				●	●			H			
EXHAUST FANS, UTILITY SETS AND DUCTWORK				●	●						
LAVATORY FIXTURES AND WATER HEATER				●	●						
SANITARY				●	●						
SUPPLY, VENT, WASTE PIPING				●	●						
KITCHEN EQUIPMENT UTILITY CONNECTIONS				●	●			P/H		FINAL CONNECTIONS BY EACH TRADE SUB-CONTRACTOR	
FIRE PROTECTION SYSTEM (SPRINKLER) (AS REQ.)				●	●			S			
FIRE PROTECTION SYSTEM (ALARM) (AS REQ.)				●	●			FP			
EXHAUST HOOD MAKE-UP AIR (AS REQ.)			●	●				H			
DIVISION 16 - ELECTRICAL											
INTERIOR AND EXTERIOR LIGHT FIXTURES				●	●			E			
EXIT AND EMERGENCY LIGHTING				●	●			E			
ELECTRICAL OUTLETS				●	●			E		IF REQUIRED BY LOCAL MUNICIPALITY	
CONDUIT FOR TELEPHONE / DATA WIRES			●					E			
FIRE ALARM (AS REQ.)				●	●			FP			
KITCHEN EQUIPMENT UTILITY CONNECTIONS				●	●			E, P, H, FP, G.C.		FINAL CONNECTIONS BY EACH TRADE SUB-CONTRACTOR	



NOT TO SCALE



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
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Project No: 5401 / Store #1684
Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

COVER SHEET

SHEET NUMBER:

G1.0

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CODE ANALYSIS			
IBC 2018 AND NFPA 101-2009	EXISTING BUILDING	EXISTING SPACE	PROPOSED SPACE
IBC 2018 BUILDING USE GROUP CLASSIFICATION(S)	B	B	B
NFPA 101 OCCUPANCY CLASSIFICATION(S)	BUSINESS	BUSINESS	BUSINESS
SEPARATED MIXED USE PER IBC/ NFPA (Y/N)	NO	NO	NO
CONSTRUCTION TYPE PER IBC 2018	II-B	II-B	II-B
NUMBER OF STORIES ABOVE GRADE	1	1	1
HIGH RISE (Y/N)	NO	NO	NO
FIRE ALARM SYSTEM (Y/N)	NO	NO	NO
FULLY SPRINKLED AND MONITORED (Y/N)	YES	YES	YES
TOTAL BUILDING AREA (S.F.)	N/A	1,220 S.F.	1,220 S.F.
FLOOR AREA OF RENOVATION/ TENANT SPACE (S.F.)	N/A	1,220 S.F.	1,220 S.F.

MATERIAL PERFORMANCE		
MATERIAL	CLASS	FLAME SPREAD INDEX
CUSTOMER LOBBY CEILING TILE	CLASS A	<25
PRODUCTION AREA CEILING TILE	CLASS A	<25
FLOOR TILE	CLASS A	<25
WALL TILE	CLASS A	<25
WALL PAINT	CLASS A	<5
PLASTIC LAMINATE	CLASS A	<25
FRP PANELS	CLASS A	<25
CORIAN SOLID SURFACE	CLASS A	<25

EXIT ACCESS TRAVEL DISTANCE		
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)
A, E, F-1, M, R, S-1	200	250
I-1	NOT PERMITTED	250
B	200	300
F-2, S-2, U	300	400
H-1	NOT PERMITTED	75
H-2	NOT PERMITTED	100
H-3	NOT PERMITTED	150
H-4	NOT PERMITTED	175
H-5	NOT PERMITTED	200
I-2, I-3, I-4	NOT PERMITTED	200

PROJECT STATISTICS:

BUILDING DATA

TOTAL AREA OF DOMINO'S PIZZA TENANT SPACE: 1,220 S.F. GROSS

OCCUPANT LOAD SUMMARY

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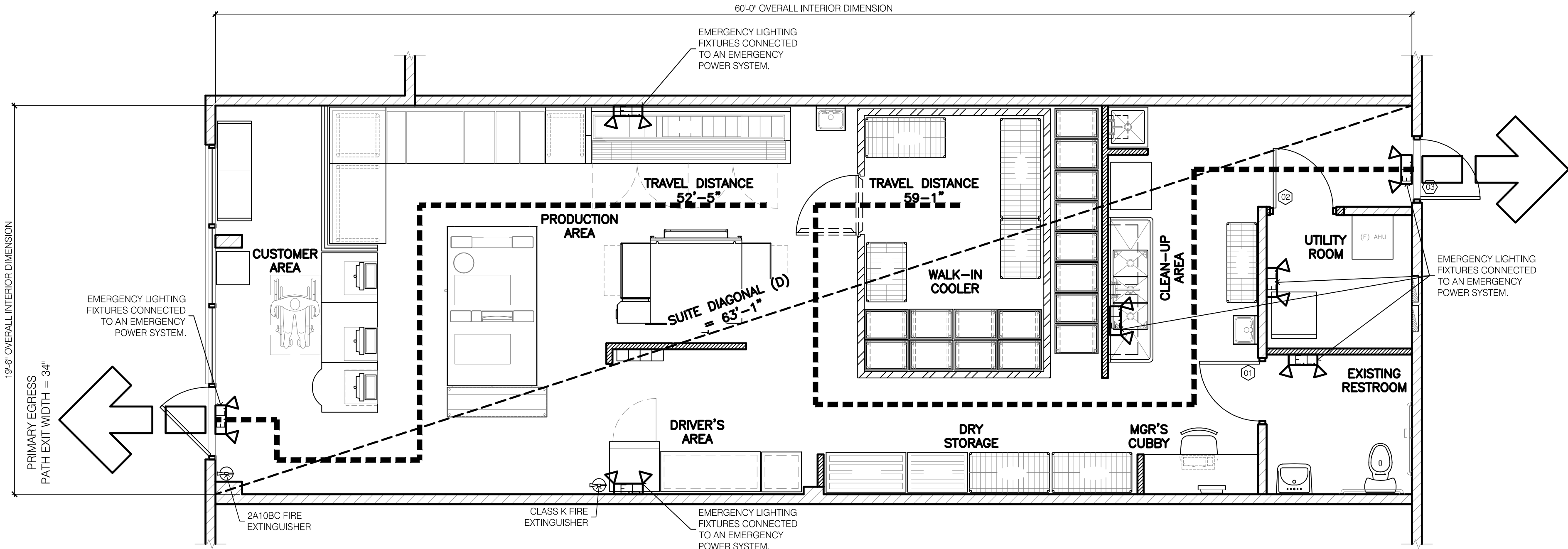
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TOILETS:
TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

FIRE EXTINGUISHER NOTES

- ALL FIRE EXTINGUISHERS SHALL BE STATE OF MISSOURI CERTIFIED. ALL FIRE EXTINGUISHERS SHALL BE PROPERLY MOUNTED AT THE HEIGHT REQUIREMENTS OF NO HIGHER THAN 4'-6" A.F.F. TO THE TOP OF THE EXTINGUISHER AND AT LEAST 6" FROM FLOOR TO THE BOTTOM OF EXTINGUISHER. (NFPA 10: 6.1.3.8)
- ALL PROPERLY MOUNTED FIRE EXTINGUISHERS SHALL NOT EXCEED 75' OF TRAVEL DISTANCE APART. (NFPA 1: 6.1)
- FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY ARE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREAS. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. (NFPA 10: 6.1.3.3)

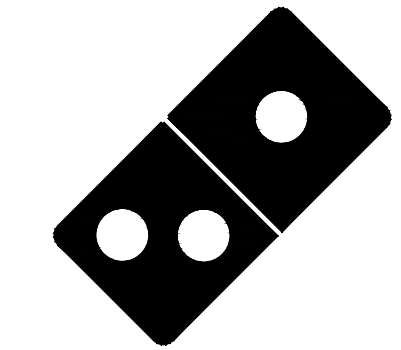


FIRE/ LIFE SAFETY PLAN

SCALE: 1/4" = 1'-0"



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REV: DATE: DESCRIPTION:

SHEET NAME:

FIRE/ LIFE SAFETY PLAN

SHEET NUMBER:

FLS1.0

EQUIPMENT SCHEDULE				SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.		
MARK	QTY.	DESCRIPTION / MFG	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
1	1	1" STAINLESS STEEL DOUGH SPACER W/ LEGS	SEE E&S	4" BACKSPLASH/ LEG ASSEMBLY 22314D	E&S	GC
2	1	2" STAINLESS STEEL DOUGH SPACER W/ LEGS	PC 273160	4" BACKSPLASH/ LEG ASSEMBLY 22314D	E&S	GC
3	1	3" STAINLESS STEEL DOUGH SPACER W/ LEGS	PC 273161	4" BACKSPLASH/ LEG ASSEMBLY 22314D	E&S	GC
4	1	4" STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273162	4" BACKSPLASH	E&S	GC
5	1	5" STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273163	4" BACKSPLASH	E&S	GC
6	1	6" STAINLESS STEEL DOUGH COUNTER W/ LEGS	SEE E&S	4" BACKSPLASH	E&S	GC
7	1	45 DEGREE ROLL TABLE W/ 4" BACKSPLASH	PC 273167	4" BACKSPLASH	E&S	GC
8	1	UNIVERSAL CORNER STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273165	4" BACKSPLASH	E&S	GC
9	1	4" MAKELINE	SEE E&S		E&S	GC
10	1	10" 0" MAKELINE RCP (RIGHT SIDE COMPRESSOR)	SEE E&S		E&S	GC
11	1	CORNMEAL CATCHER	PC 273021		E&S	GC
12	1	BQI 325SH DOUBLE STACK CONVEYOR OVEN	SEE E&S	SPLIT BELT DRIVE ONE OVEN	E&S	GC
13	1	AVI CAP EXHAUST HOOD FOR BQI 325S	SEE E&S	S.S. VALANCE BY E&S OR OPTIONALLY BY G.C.	E&S	GC
14	1	PULSE TELEPHONE EQUIPMENT BOX W/ HINGED ACCESS DOORS		PWD W/ WHITE P. LAM	E&S	GC
15	2	MENU BOARD - 37"-55" MONITOR 1080p & HDMI COMPATIBLE	SEE POMEROY	RECOMMEND LG 43SE3B OR LG 49SE3B	POMEROY	GC
16	1	PIZZA TRACKER - 37"-55" MONITOR 1080p & HDMI COMPATIBLE	SEE POMEROY	WITH HP T620 THIN CLIENT	POMEROY	GC
17a	2	PULSE TELEPHONE / 22" ORDER STATION - WALL MOUNTED	SEE PULSE	WALL MOUNTED	PULSE	GC
17b	1	PULSE TELEPHONE/ 22" DRIVER DISPATCH/ CUT STATION - WALL MOUNTED	SEE PULSE	ADDL. DATA FOR PRINTER	PULSE	GC
17c	3	PULSE TELEPHONE / 22" ORDER STATION - POS COUNTER	SEE PULSE	POS COUNTER/ADDL. DATA FOR PRINTER	PULSE	GC
17d	3	DOUGH / 22" MAKELINE MONITOR - POLE MOUNTED ABOVE	SEE PULSE		PULSE	GC
17e	1	COUNTER MOUNTED KIOSK	SEE PULSE	MOUNTING BASE		
17f	1	TEAM MEMBER NOTIFICATION (TMN) SYSTEM	SEE PULSE	MOUNTING ARM, IF NEXT TO POS TERM.		
18	1	CALIFORNIA SAFE WITH DIGITAL LOCK/TIME DELAY	PC 381811	20" TALL DUE TO ELEC. & CASH DRAWER	E&S	GC
19	2	METAL CASH DRAWER W/ REMOVABLE TILL	PC 312661	MTL. BRACKET KIT REQ'D. - PC 284008	E&S	GC
20	1	30" SINGLE DOOR VISI-COOLER	SEE COKE		COKE	GC
21	1	54" DOUBLE DOOR VISI-COOLER	SEE COKE			
22	1	COKE COOLER GDM15-RETR (RETRO COKE COOLER)	SEE COKE			
23	1	8" CUTTING EDGE CUT TABLE	SEE E&S		E&S	GC
24	1	60" ROUTE STAND W/ (3) 54" HEAT LAMPS (PC32081S)	PC 320810		E&S	GC
25	2	2" DRIVERS TABLE	PC 22141D			
26	3	3" DRIVERS TABLE	PC 22140D			
27	1	10 x 14" NOMINAL KOLPAK WALK-IN COOLER BOX W/OUT FLR.	SEE E&S		E&S	GC
28	1	WHIRLPOOL ALL-IN-ONE WASHER/DRYER	BY G.C.	WETLV2TH		
29	1	FULL SIZE WASHER	BY OWNER	STACKABLE	OWNER	GC
30	1	FULL SIZE DRYER	BY OWNER	STACKABLE	OWNER	GC
31	1	STAINLESS STEEL 3-COMPARTMENT SINK	PC 28102		E&S	GC
32	3	3-COMP. SINK, WASTE LEVER	PC 383050		E&S	GC
33	1	3-COMP. SINK, ECONOMY SPRAYER W/ ADD-ON FAUCET	PC 383011		E&S	GC
34	1	3-COMP. SINK, WALL BRACKET FOR ECONOMY SPRAYER	PC 28108		E&S	GC
35	2	COMPLETE 3-COMP. SINK WALL STORAGE SYSTEM	PC 411956		E&S	GC
36	2	STAINLESS STEEL HANDSINK W/ KNEE PEDAL AND BACKSPLASH	SEE E&S	W/ SPLASH GUARDS, BOTH SIDES	E&S	GC
37	2	LIQUID SOAP DISPENSER	PC 244006		E&S	GC
38	2	HAND SANITIZER DISPENSER	SEE E&S		E&S	GC
39	2	PAPER TOWEL DISPENSER	SEE E&S		E&S	GC
40	2	TRASH CAN W/ LID	PC 7030, PC7031		E&S	GC
41	1	MOLDED STONE MOP SINK	PC 28096		E&S	GC
42	1	WATER HEATER	SEE PLUMBING		GC	GC
43	4	STAINLESS WORK TABLE	PC 326031			
44	5	STAINLESS WORK TABLE	PC 22289			
45	1	18" x 36" OLYMPIC SHELVING	PC 411960	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
46	1	18" x 48" OLYMPIC SHELVING	PC 411961	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
47	1	18" x 60" OLYMPIC SHELVING	PC 411962	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
48	1	24" X 60" METRO DRIVERS SHELVING W/ (3) WIRE SHELVES (1) SOLID SHELF	SEE E&S	SOLID SHELF TO BE S.S. SURFACE	E&S	GC
49	1	24" x 24" OLYMPIC SHELVING	PC 411964	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
50	2	24" x 36" OLYMPIC SHELVING	PC 411965	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
51	3	24" x 48" OLYMPIC SHELVING	PC 411966	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
52	1	24" x 60" OLYMPIC SHELVING	PC 411967	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
53	1	20" x 36" HEAVY DUTY DUNNAGE RACK	PC 462452			
54	1	20" x 48" HEAVY DUTY DUNNAGE RACK	PC 462453			
55	1	24" x 36" HEAVY DUTY DUNNAGE RACK	PC 462450		E&S	GC
56	1	24" x 48" HEAVY DUTY DUNNAGE RACK	PC 462451		E&S	GC
57	1	16 COMPARTMENT LOCKER	SEE OWNER			
58	1	BUILT-IN MANAGERS DESK (WITH A.D.A. KNEE CLEARANCE)			GC	GC
59	4	MODULAR METAL DROP BOX	PC 8610A	(4) BAYS TO BE ATTACHED TOGETHER	E&S	GC
60	1	COKE FOUNTAIN BEVERAGE DISPENSER W/ ICE MACHINE ABOVE	SEE COKE			

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.
E&S = DOMINO'S PIZZA EQUIPMENT AND SUPPLY PULSE = DOMINO'S PIZZA POINT OF SALE SYSTEM

COUNTER CABINET/ SOFFIT SCHEDULE				SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.		
MARK	QTY.	DESCRIPTION	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
CC-01	1	TRANSACTION COUNTER (33.5" DEEP)	PC 273310		E&S	GC
CC-02		18" POS FILLER CABINET (33.5" DEEP)	PC 273306			
CC-03		24" POS FILLER CABINET (33.5" DEEP)	PC 273307			
CC-04	1	30" POS FILLER CABINET (33.5" DEEP)	PC 273308		E&S	GC
CC-05	1	36" POS FILLER CABINET (33.5" DEEP)	PC 273309		E&S	GC
CC-06		WEDGE CABINET (33.5" DEEP)	PC 273311			
CC-07		HOT HOLD CABINET BASE	PC 273312			
CC-08	1	8" STAINLESS DOUGH TABLE - PIZZA THEATER	PC 273100	4" BACKSPLASH	E&S	GC
CC-09	3	POS MOUNTS	PC 284007		E&S	GC
CC-10		7 CUT TABLE - PIZZA THEATER	PC 273117	W/ OVERSHELF (PC 273128)		
CC-11		SOLID STAINLESS BOX SHELF - 3 REQ.	PC 273119	W/ (4) 54" ERCTA POSTS (PC 273166)		
CC-12		BEVERAGE COUNTER	PC 284043/ PC 284042	TRASH ON RIGHT/ TRASH ON LEFT		
CC-13		BEVERAGE COUNTER TOP ORGANIZER	SEE E&S			
CC-14		AMENITIES STATION	SEE E&S			
CC-15	2	SNEEZE GUARD POLE END (INDIVIDUAL)	PC 284300	G.C. TO PROVIDE GLASS	E&S	GC
CC-16	2	SNEEZE GUARD POLE CENTER/CORNER (INDIVIDUAL)	PC 284301	G.C. TO PROVIDE GLASS	E&S	GC
CC-17		45" PREFAB MODULAR SOFFIT	PC DOM AA-15 060	PRE-FABRICATED SOFFIT OPTIONAL. SEE E&S FOR SOFFIT ACCESSORIES		
CC-18		48" x 24" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 010			
CC-19		48" x 36" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 020			
CC-20		48" x 48" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 030			
CC-21		48" x 60" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 040			
CC-22		48" x 96" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 050			
CC-23		CORIAN LEDGE SUPPORT COLUMN	SEE E&S	SUPPORT FOR CORIAN WAITING LEDGE		

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.
NOTE: SOFFIT LAYOUT/ACCESSORIES FOR DESIGN INTENT ONLY. FINAL EQUIPMENT ORDER TO BE BASED ON MANUFACTURER'S SPECIFICATIONS.

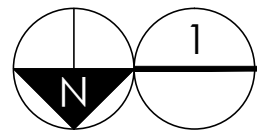
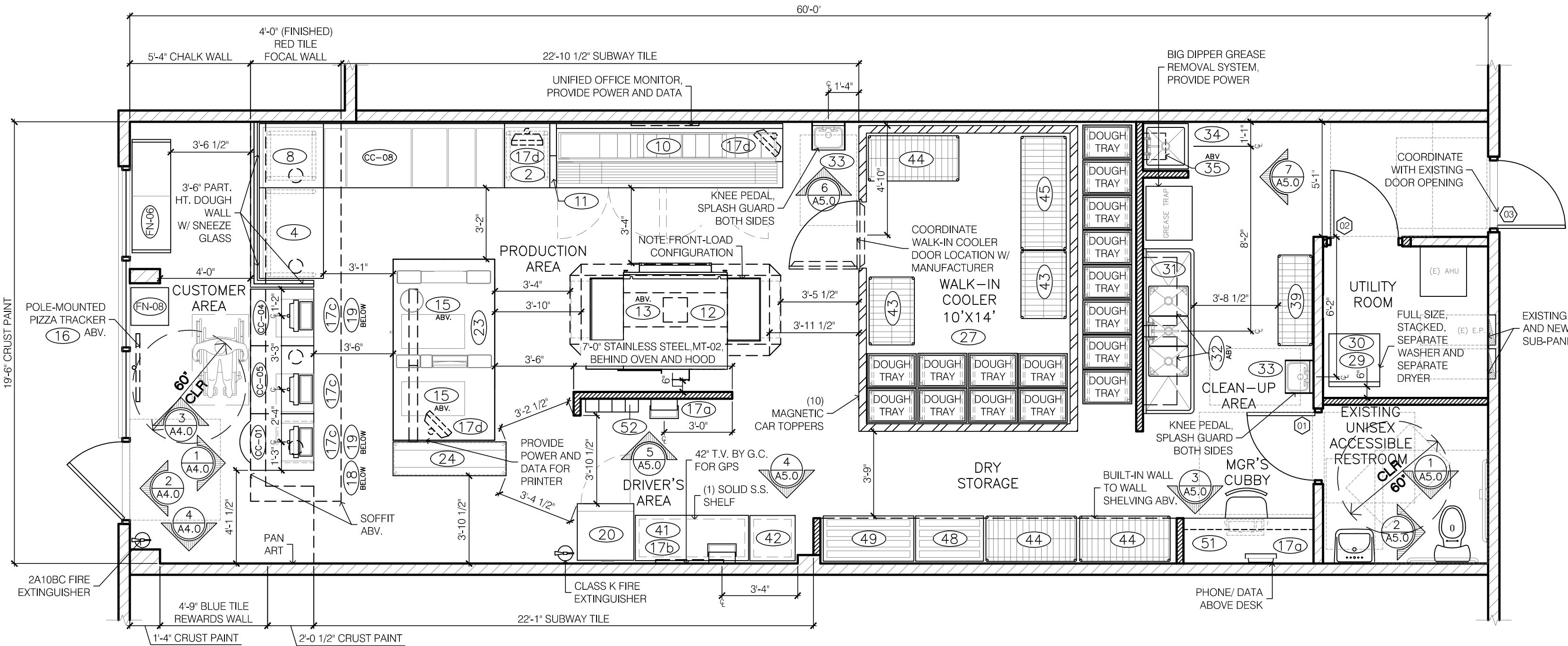
FURNITURE SCHEDULE				*SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.		
MARK	QTY.	DESCRIPTION / MFG	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
FN-01		DINING CHAIR (18" SEAT HEIGHT)	PC 318080	DINING ROOM		
FN-02		COUNTER STOOL (25" SEAT HEIGHT)	PC 318081	WAITING LEDGE		
FN-03		DINING TABLE TOP AND 1 BASE: 36" x 24"	PC 284015/284016	DINING ROOM		
FN-04		DINING TABLE TOP AND 2 BASES: 36" x 48"	PC 284017/284018	DINING ROOM		
FN-05	1	BENCH - 3 SEAT	PC 284014	WAITING AREA (60" LONG)	E&S	GC
FN-07		BENCH - 3 SEAT- SECURITY STORE	SEE E&S	SECURITY STORE (61.25" LONG)		
FN-08	1	INTERIOR TRASH CAN - 36 GALLON 20" X 20" X40"	PC 273030/273031	BASE AND TOP/ TOP ONLY FITS (E) BASE	E&S	GC
FN-11		48" SINGLE BOOTH SECTION	PC 284011	INTERIOR SEATING AREA		
FN-12		WALL BOOTH SEATING (SEE PLAN FOR LENGTHS)	PC 284013	INTERIOR SEATING AREA		
FN-13		48" DOUBLE BOOTH SEATING	PC 284012	INTERIOR SEATING AREA		
FN-14		EXTERIOR TRASH CAN - 55 GALLON	PC 273016	EXTERIOR DINING AREA		
FN-15		30" ROUND OUTDOOR TABLE WITH BASE: SEATS 2	PC 318070/318071	EXTERIOR DINING AREA		
FN-16		36" SQUARE OUTDOOR TABLE WITH BASE: SEATS 4	PC 318072/318073	EXTERIOR DINING AREA		
FN-18		7 RED OUTDOOR TABLE UMBRELLA W/ BASE: ADD SMALL LOGO	PC 318043/318044	EXTERIOR DINING AREA		
FN-19		OUTDOOR PLATINUM CHAIR	PC 318074	EXTERIOR DINING AREA		
FN-20		CHILD STEP	PC 273300	24W x 18D x 12H		
FN-21		HAND RAIL	PC 273301			

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.

Domino's Pizza - Cash Wrap Specifications										
Domino's P/N		273306	273307	373308	273309	273310	273311	273312	284007	284008
MFG P/N		J701718K615	J701724K615	J701730K615	J701736K615	J7018K615	J7018K615	J7019K615	J6274K300	J6067K615
Description		18" POS CABINET	24" POS CABINET	30" POS CABINET	36" POS CABINET	TRANSACTION STATION	FILLER WEDGE	HOT HOLD CABINET	POS MOUNT	CASH DRAWER MOUNTING BRACKET
DIMS & Weight	Product (H x W x D)	34" x 18" x 33 1/2"	34" x 24" x 33 1/2"	34" x 30" x 33 1/2"	34" x 36" x 33 1/2"	34" x 30" x 39-3/16"	34" x 27.5" x 33 1/2"	24" x 36" x 33 1/2"	12"-H	*accommodates M-S Cash Drawer (mfg# HP-123N)
	Shipping (H x W x D)	40" x 25" x 52"	40" x 25" x 52"	40" x 40" x 48"	40" x 40" x 48"	40" x 40" x 48"	40" x 25" x 52"	40" x 40" x 48"	4" x 4" x 15"	7" x 17" x 19"
	Product (lbs.)	110 lbs.	130 lbs.	155 lbs.	175 lbs.	185 lbs.	80 lbs.	150 lbs.	5.5 lbs.	7.5 lbs.
	Shipping (lbs.)	130 lbs.	150 lbs.	180 lbs.	200 lbs.	210 lbs.	100 lbs.	175 lbs.	8 lbs.	
CMF	Cabinet Material	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Tube	18-ga. Steel Sheet
	Cabinet Color	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	E-Coat	Stardust Silver
	Countertop Material	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	N/A	N/A
	Countertop Finish	Matte	Matte	Matte	Matte	Matte	Matte	Matte	N/A	N/A
ELECTRICAL	Countertop Color	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	N/A	N/A
	# Clean Outlets	0	0	0	0	0	0	0	N/A	N/A
	# Dirty Outlets	4	4	4	6	8	0	4	N/A	N/A
	# Blank/Data Outlets	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	N/A	N/A
FEATURES	Modular Connectors	5-ft RelocID Quick Connect	5-ft RelocID Quick Connect	5-ft RelocID Quick Connect	5-ft RelocID Quick Connect	5-ft RelocID Quick Connect	RelocID Cable Extenders	RelocID Cable Extenders	N/A	N/A
	Hard Wiring	N/A	N/A	N/A	N/A	N/A - 20-amp plug w/ junction box kit* *packaged separately	N/A	N/A	N/A	N/A
	Removable Front Access Panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	No	Yes Spring clip must first be dis-engaged from employee side before removing panel	N/A	N/A
	Removable Rear Kick for s21TW Floor Safe Adjustable Shelving (1/2" increments)	No	No	Yes	Yes	Yes	No	No	N/A	N/A
VEESA Mount Standard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
	Warranty	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	75mm x 75mm only (1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship

GENERAL NOTES

- THIS DRAWING IS FOR EQUIPMENT LAYOUT PURPOSES ONLY. PLEASE SEE PARTITION AND FINISH PLAN FOR FULLY DIMENSIONED PARTITION LOCATIONS AND ASSEMBLIES.
- G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE COMMENCING CONSTRUCTION.
- ALL DIMENSIONS OF NEW WALLS TO FACE OF STUD UNLESS OTHERWISE NOTED.



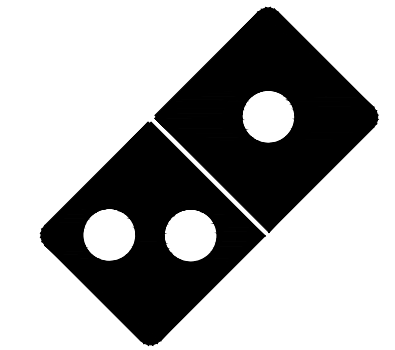
EQUIPMENT LAYOUT

SCALE: 1/4" = 1'-0"



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM

04.22.21



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

EQUIPMENT LAYOUT/
COUNTER CABINETS/
SCHEDULES

SHEET NUMBER:

A1.0

3/8" 30GA METAL STUDS @ 16" O.C.

3/8" GYPSUM BOARD BOTH SIDES

NOTE:
CDX PLYWOOD TO BE USED
BEHIND ALL WALL MOUNTED
COMPUTER EQUIPMENT AND
PLUMBING FIXTURES.

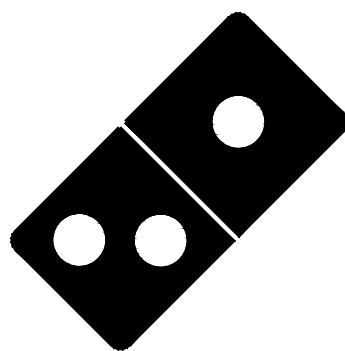
SEE PARTITION &
FINISH PLAN FOR
WALL FINISH

A-A

NOT TO SCALE

SCALE: 1/4" = 1'-0"

1. THIS PLAN IS ISSUED SO THAT THE CONTRACTOR CAN MAINTAIN FULL COMPLIANCE WITH THE ACCESSIBILITY CODES (ANSI 117.1) AND THE AMERICAN WITH DISABILITIES ACT FOR WHEELCHAIR MANEUVERABILITY AT DOORS. THIS DETAIL INDICATES PARTIAL REQUIREMENTS OF THE CODE. IT IS ADVISED THAT THE CONTRACTOR OBTAIN A COMPLETE COPY OF THESE CODES FOR REFERENCE.
2. THE DIMENSIONS SHOWN ARE CRITICAL FOR COMPLIANCE WITH THE CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE PROPER CLEARANCES FOR WHEELCHAIR MANEUVERABILITY. IF CONFLICTS OCCUR, BRING TO DESIGNERS ATTENTION IMMEDIATELY.
3. FOR FULL SWING DOORS A MINIMUM 2'-10" WIDE DOOR IS REQUIRED. FOR 90° SWING DOORS, FOR 2'-0" MINIMUM CLEARANCE AT DOOR AND A MINIMUM PASSAGE WIDTH, THE 3'-0" WIDE DOOR IS REQUIRED FOR CLEARANCE.
4. IN ORDER TO ACHIEVE THE REQUIRED 12" OR 18" MINIMUM CLEARANCES AT DOOR AND A MINIMUM PASSAGE WIDTH, THE DOOR FRAME AT HINGE SIDE MAY HAVE TO BE AGAINST THE ADJACENT WALL.
5. THE MAXIMUM EFFORT FOR BOTH INTERIOR AND EXTERIOR DOORS IS 5 POUNDS.
6. FLOOR LEVEL AT DOORS NOT TO BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD REQUIREMENTS.
7. EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
8. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 2 SECONDS MINIMUM.



Project No: 5401 / Store #1684
 Domino's Pizza Bakery Store
 Pizza Theater Tenant Improvement
 33544 SW Market St., Lee's Summit, MO 64082
 for DESZ Management LLC dba Domino's
 3901 Blue Ridge Cutoff
 Kansas City, MO 64133
 816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:
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SHEET NAME:

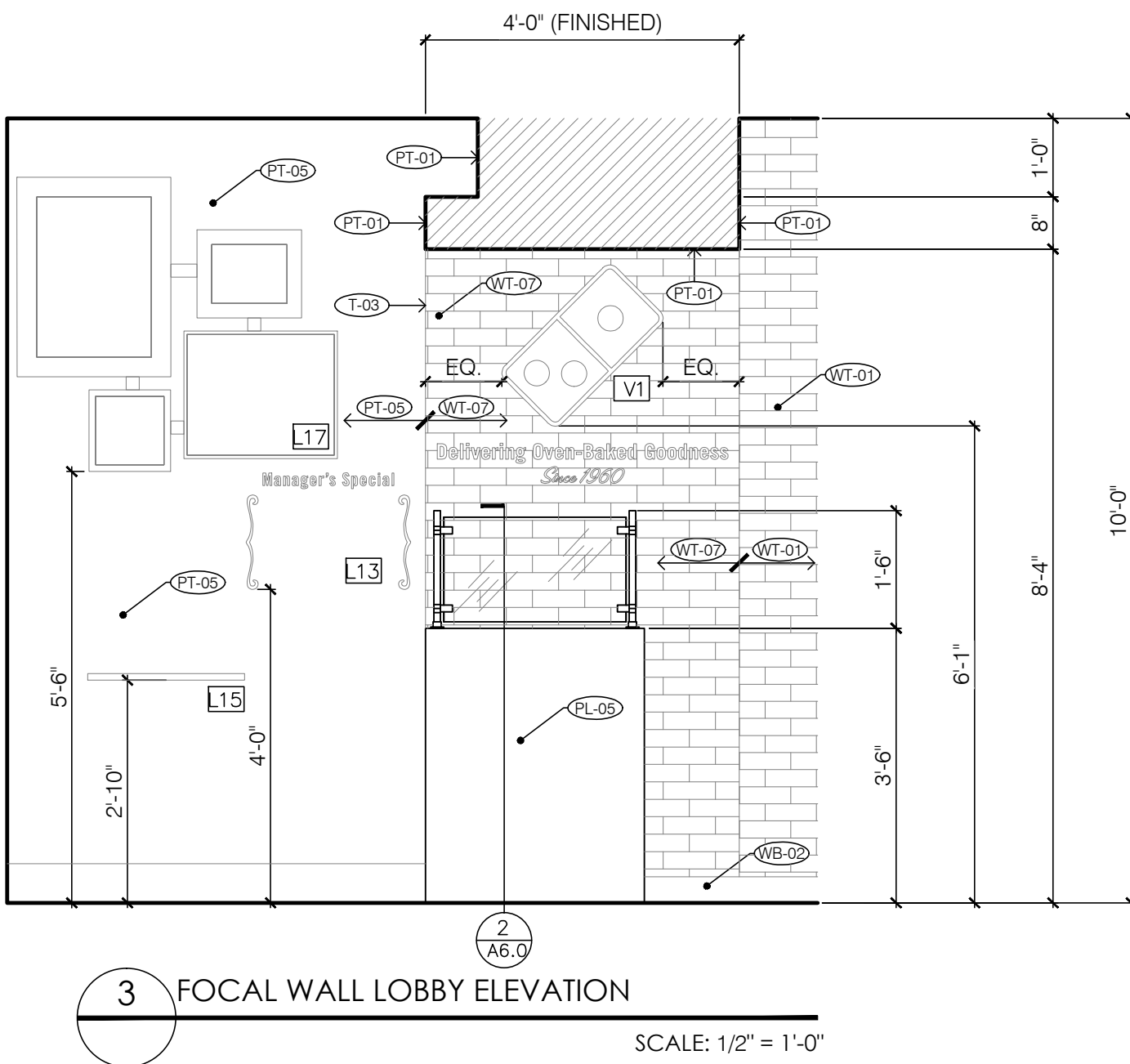
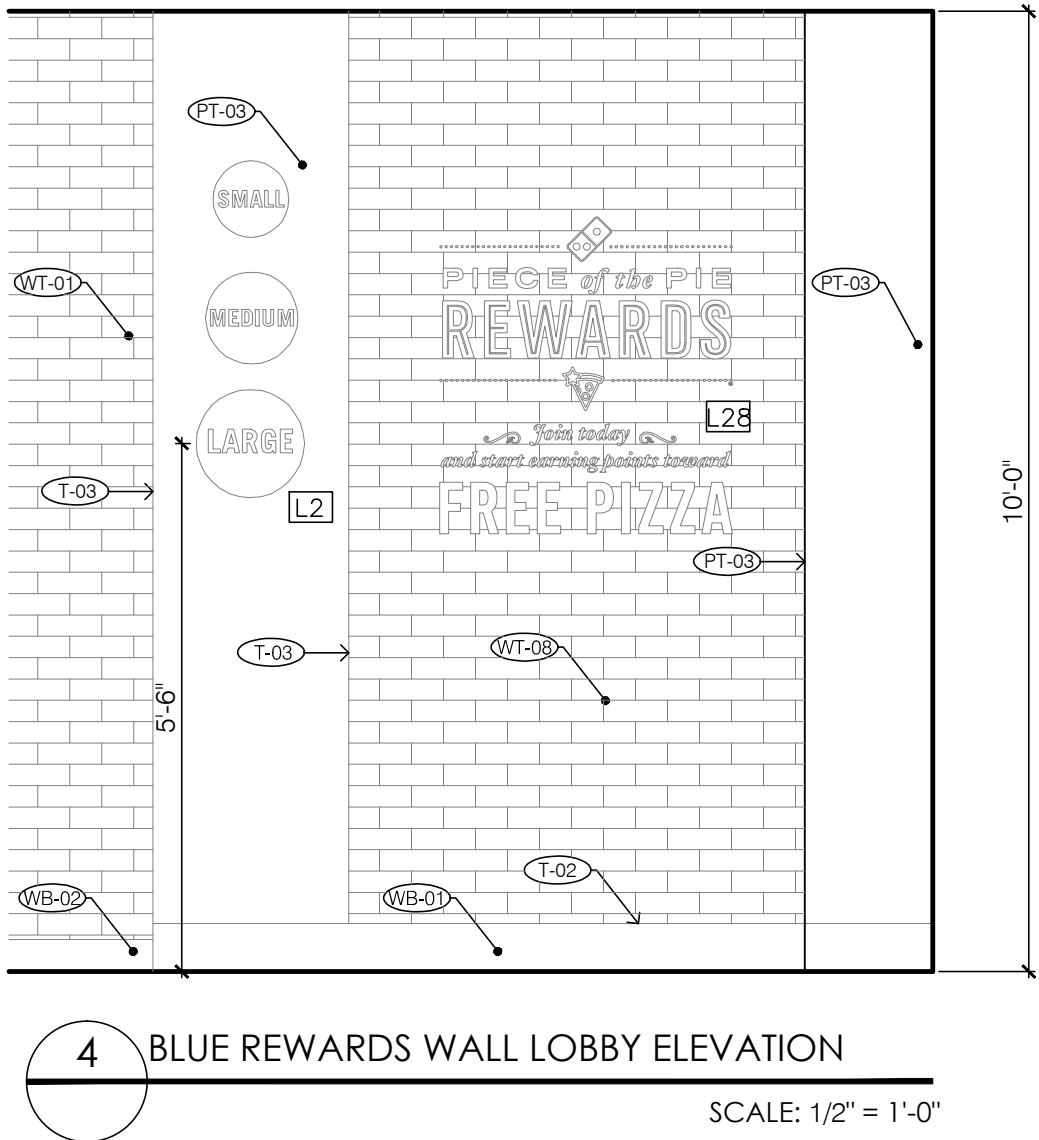
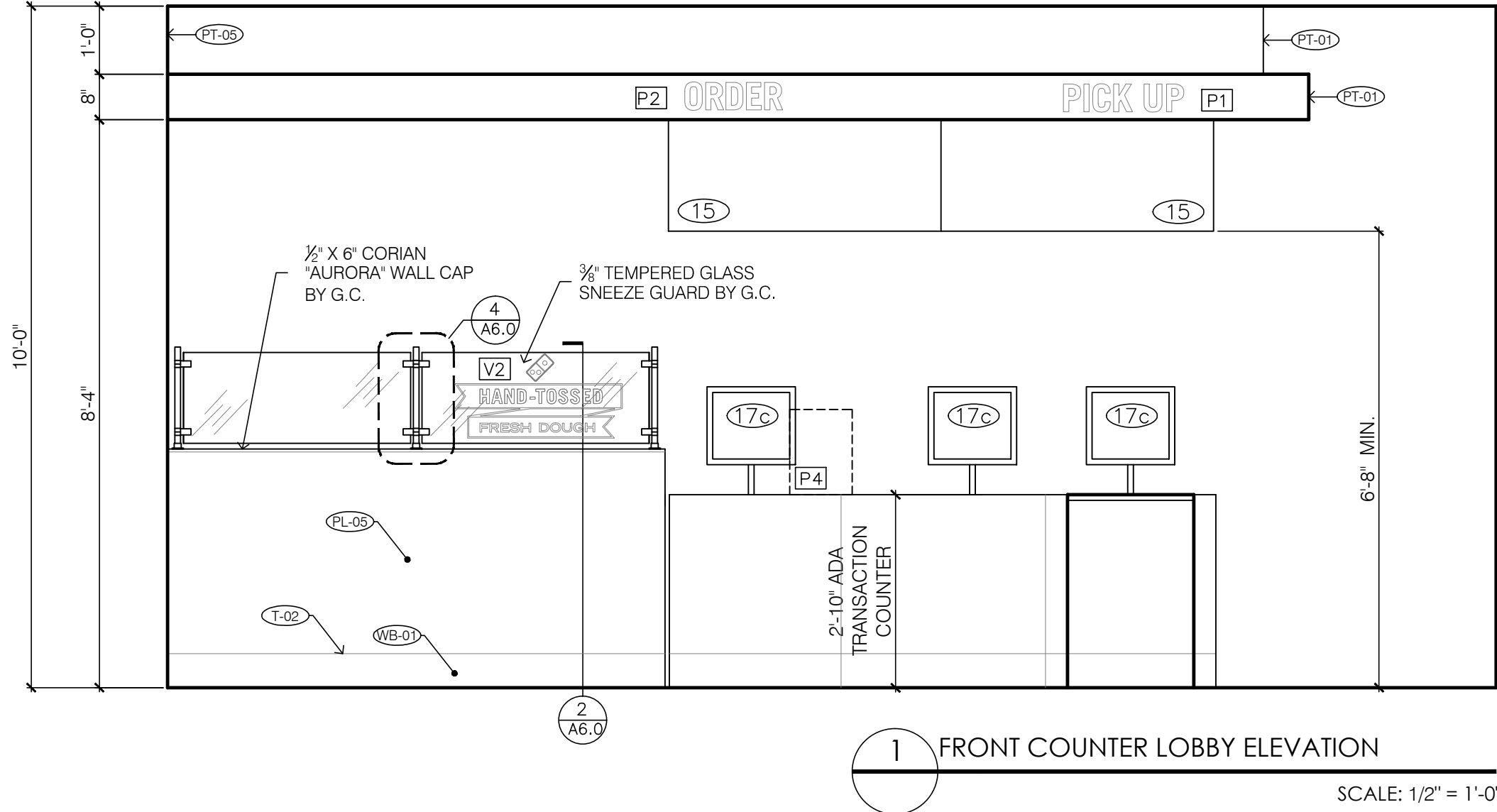
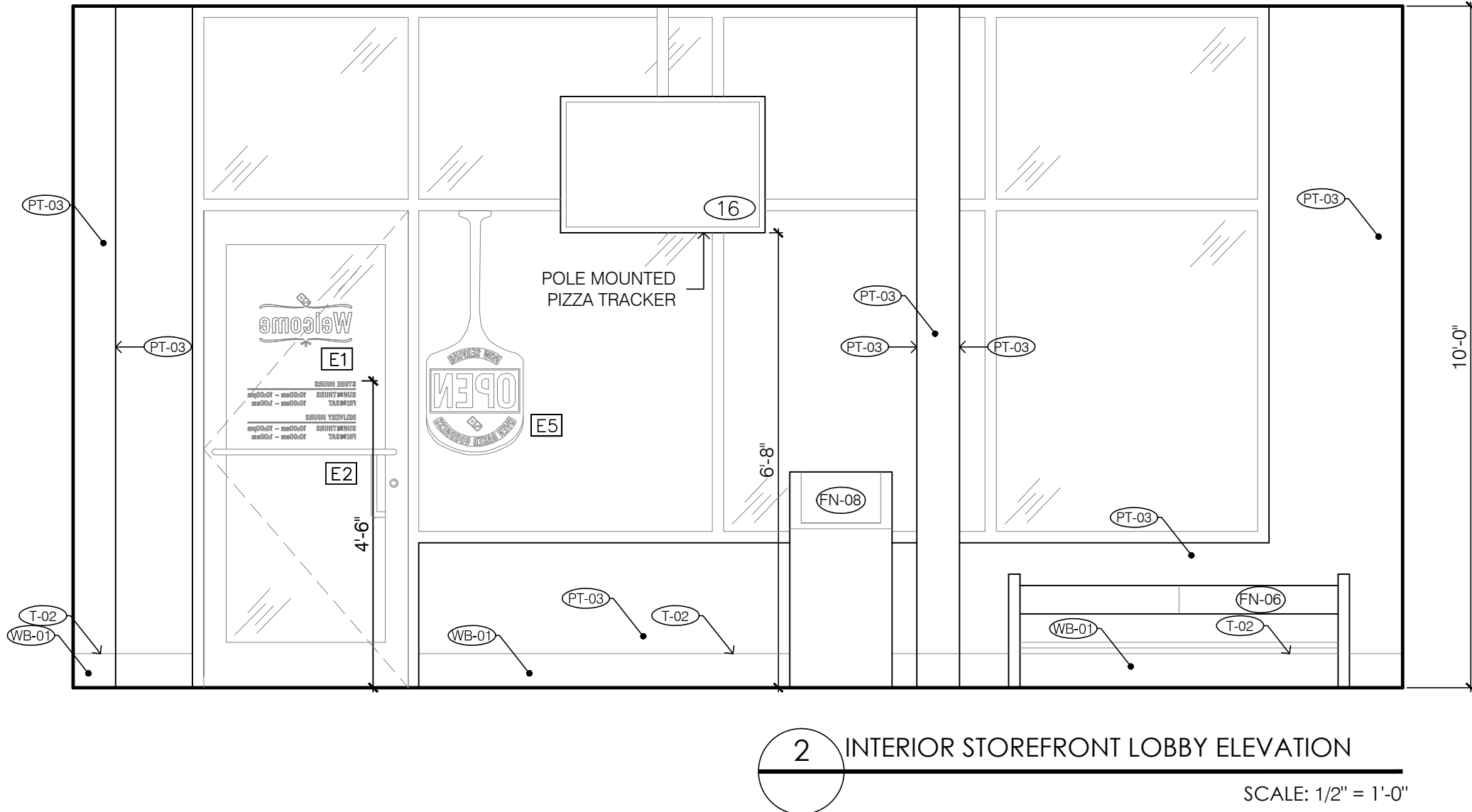
PARTITION & FINISH
PLAN/ DETAILS/
MATERIAL SCHEDULE/
DOOR SCHEDULE

SHEET NUMBER:

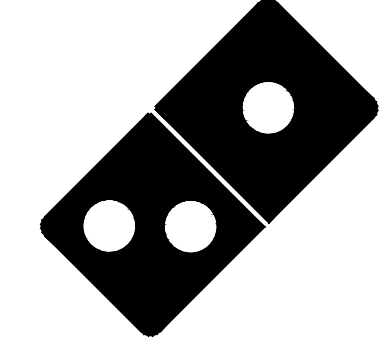
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ART PACKAGE SCHEDULE			SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.
MARK	QTY	DESCRIPTION	PRODUCT CODE REMARKS
GRAPHICS: ENTRYWAY			
E1	1	WELCOME CUSTOMER ENTRY DOOR	PC273243 EVERY PIZZA THEATER STORE MUST ORDER
E2	1	STORE HOURS VINYL PER DOMINO'S STANDARDS	BY OWNER
E3		WELCOME GLASS PARTITION WALL VINYL	PC237260
E4		"PICK-UP WINDOW" OPEN PEEL SIGN - HALO LIT	PC284052 UTILIZED AS A SECOND SIGN IN STORES THAT NEED IT
E5	1	"NOW SERVING" OPEN PEEL SIGN - HALO LIT	PC284050 EVERY PIZZA THEATER STORE MUST ORDER
E6		LOGO - EXTERIOR WINDOW VINYL	PC273259
GRAPHICS: WALLPAPER			
W1		COLORED NEWSPRINT WALLPAPER #1	PC283091 OPTIONAL RESIN BOARD (PC283081)
W2		COLORED NEWSPRINT WALLPAPER #2	PC283092 OPTIONAL RESIN BOARD (PC283082)
W3		COLORED NEWSPRINT WALLPAPER #3	PC283093 OPTIONAL RESIN BOARD (PC283083)
W4		COLORED NEWSPRINT WALLPAPER #4	PC283094 OPTIONAL RESIN BOARD (PC283084)
W5		BLUE LOYALTY WALL PANEL	- TEXTURED SURFACE VINYL BY MLE
GRAPHICS: LOBBY WALLS			
L1		SIZE PIZZA PAN ART (SET OF 6)	PC273258 9'-6" TO CENTER OF BOTTOM ROW FROM FLOOR
L2	1	SIZE PIZZA PAN ART (SET OF 3)	PC273257 5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR
L3		INGREDIENT PIZZA PAN ART (SET OF 4)	PC273211 5'-2" AFF TO BOTTOM OF PANS. EVERY REMODEL MUST HAVE EITHER PAN ART OR LOBBY FRAMED PHOTO COLLAGE. XL SOLD SEPARATELY - PC 273263
L4		WHY WAIT & MCB PAN ART (SET OF 2)	PC273230 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L5		PEPPER & DOM PAN ART (SET OF 2)	PC273251 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L6		ANYWARE & SC BREAD PAN ART (SET OF 2)	PC273266 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L7		"CAUTION DELIVERY EXPERTS" DOOR VINYL	PC273217 USED IF GLASS DOOR SEPARATES LOBBY FROM PRODUCTION AREA
L8		"TRACK IT" DIMENSIONAL RIBBON	PC273215
L9		FREE WIFI SPOT	PC273216 NEW STORE LAYOUT ONLY - NOT RETROFIT
L10		"HAND TOSSED FRESH DOUGH" WALL VINYL	PC273224
L11		"90% OF FRANCHISEES" WALL VINYL	PC283253
L12		PIZZA PROVERB - CHALK WALL VINYL	PC273208 5'-1" AFF TO BOTTOM OF BRACKET
L13	1	MANAGER'S SPECIAL - CHALK WALL VINYL	PC283209 4'-6" AFF TO BOTTOM OF BRACKET
L14		TELL US WHAT YOU THINK - CHALK WALL VINYL	PC273252 CHALK WALL
L15	1	2 CHALK TRAY	PC273025 2'-10" AFF ON CHALK WALL
L16		4 CHALK TRAY	PC273027 2'10" AFF ON CHALK WALL
L17	1	FRAMED PHOTO COLLAGE (SET OF 4)	PC273256 EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. - BOTTOM SHOULD BE 9'-6" FROM FLOOR
L18		WW/REWARD/MCB 20" X 24" RED 3PC WALL PRINTS	PC273420
L19		ONLINE/LOGO/PAN 20" X 24" RED 3PC WALL PRINTS	PC273421
L20		LOGO 30" X 36" RED WALL PRINT	PC273412
L21		MARBLED COOKIE BROWNIE 30" X 36" RED WALL PRINT	PC273413
L22		EASY ORDER 30" X 36" RED WALL PRINT	PC273414
L23		MEET DOM 30" X 36" RED WALL PRINT	PC273415
L24		WHY WAIT? 30" X 36" RED WALL PRINT	PC273416
L25		ORDER ONLINE 30" X 36" RED WALL PRINT	PC273417
L26		HANDMADE PAN PIZZA 30" X 36" RED WALL PRINT	PC273418
L27		REWARDS 30" X 36" RED WALL PRINT	PC273419
L28	1	REWARDS 30" X 36" WALL PRINT	-
GRAPHICS: CUSTOMER VIEWING LEDGE			
V1	1	DIMENSIONAL LOGO AND BRAND STATEMENT VINYL	PC283221/22 RED FOCAL WALL - 9'-1" TO BOTTOM OF DOMING
V2	1	"HAND TOSSED DOUGH" VINYL	PC273223 SNEEZE GUARD IN FRONT OF DOUGH COUNTER
V3		"DON'T FEED THE EMPLOYEES" VINYL	PC273229 SNEEZE GUARD IN FRONT OF MAKELINE
V4		"450" IS THE TEMP IT TAKES" VINYL	PC273230 SNEEZE GUARD IN FRONT OF MAKELINE
V5		"WE WORK HARD" VINYL	PC273228 SNEEZE GUARD IN FRONT OF MAKELINE
V6		"PIZZA INSPECTOR" STEP UP VINYL	PC284033 CHILD STEP - 1'-9" AFF TO BOTTOM OF GRAPHIC
GRAPHICS: POS			
P1	1	"PICK UP" SOFFIT DIMENSIONAL LETTERS	PC273232 MUST USE
P2	1	"ORDER" SOFFIT DIMENSIONAL LETTERS	PC273234 MUST USE
P3		"PICK UP" POS VINYL	PC273231 USE ON COUNTERS IF NO SOFFIT AVAILABLE
P4	1	PROMO CHALKBOARD FOR POS COUNTER	PC273237
GRAPHICS: RESTROOM			
R1		RESTROOM FRAMED ART (SET OF 2)	PC273242 ONE FOR EACH OPPOSITE BLUE WALL
R2		"KEEP YOUR FRIENDS" SIGN	PC283239
R3	1	UNISEX RESTROOM SIGN	PC4040
R4		WOMEN'S RESTROOM SIGN	PC4041
R5		MEN'S RESTROOM SIGN	PC4042
R6	1	"EMPLOYEES MUST WASH" SIGN	PC4043 REQUIRED BY SINK FOR CUSTOMER RESTROOM
GRAPHICS: MERCHANDISING			
G2		COUNTER MERCHANDISER DISPLAY	PC273249 PRICE STRIPS SOLD SEPARATELY
G3		HOT HOLD MERCHANDISER DISPLAY	PC273903 PRICE STRIPS SOLD SEPARATELY

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
P: 503.552.9079
F: 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684
Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

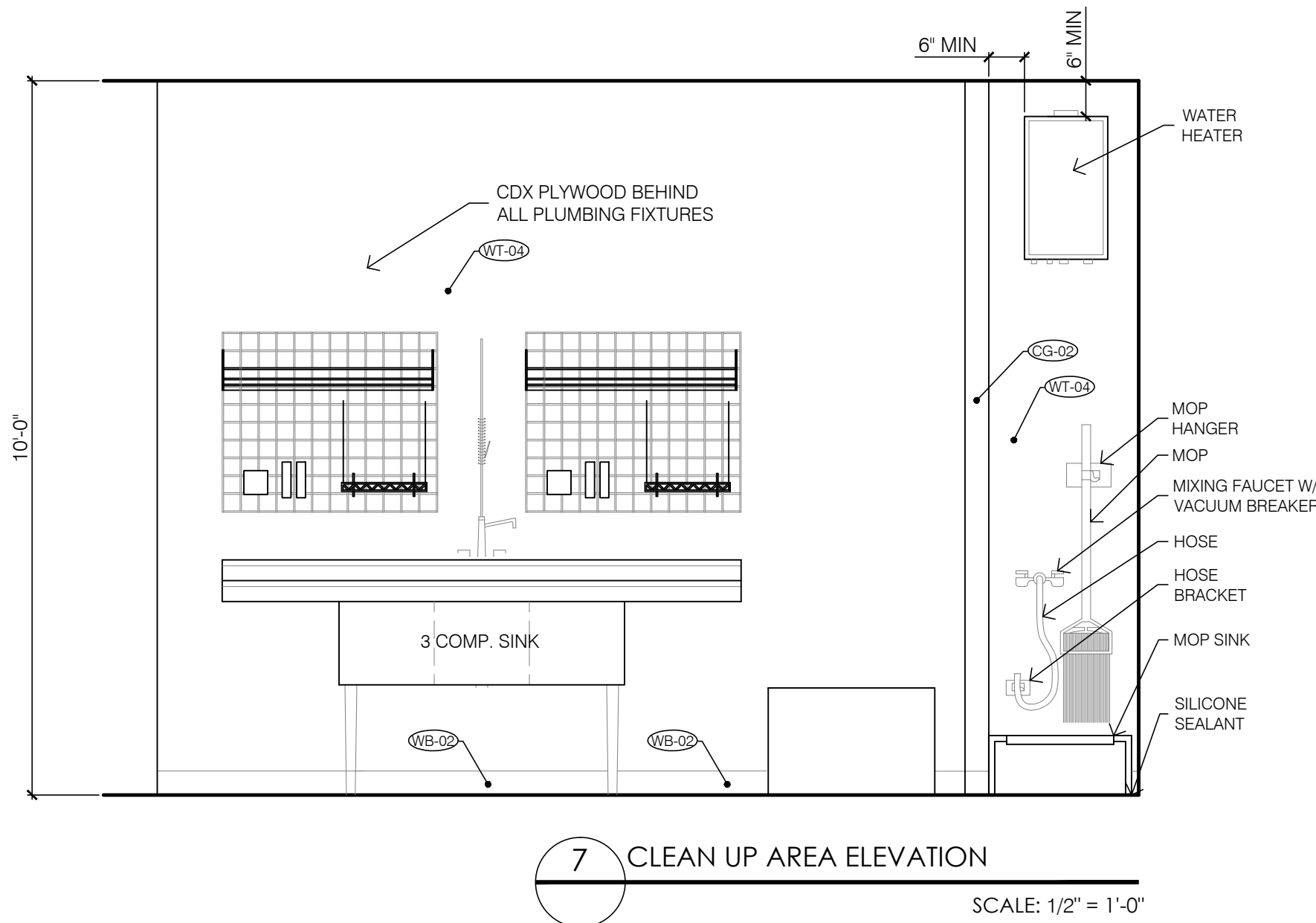
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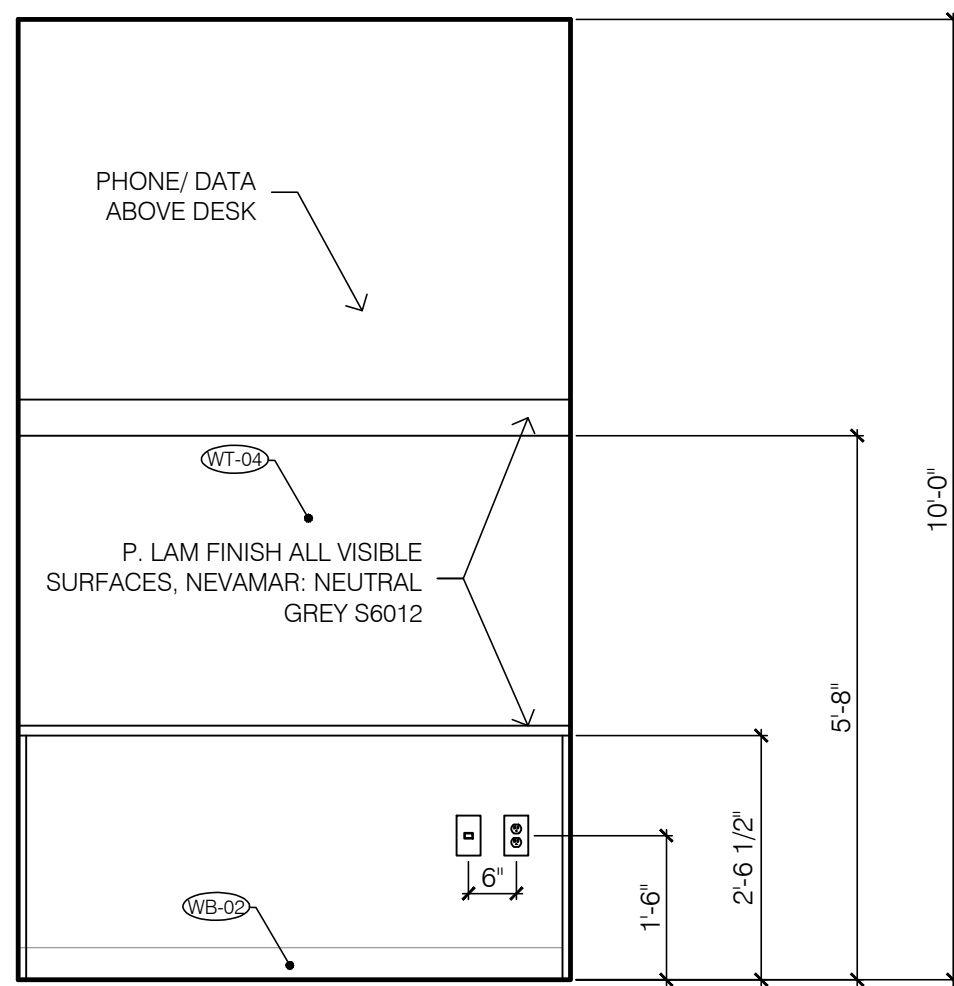
INTERIOR ELEVATIONS/
ART PACKAGE
SCHEDULE

SHEET NUMBER:

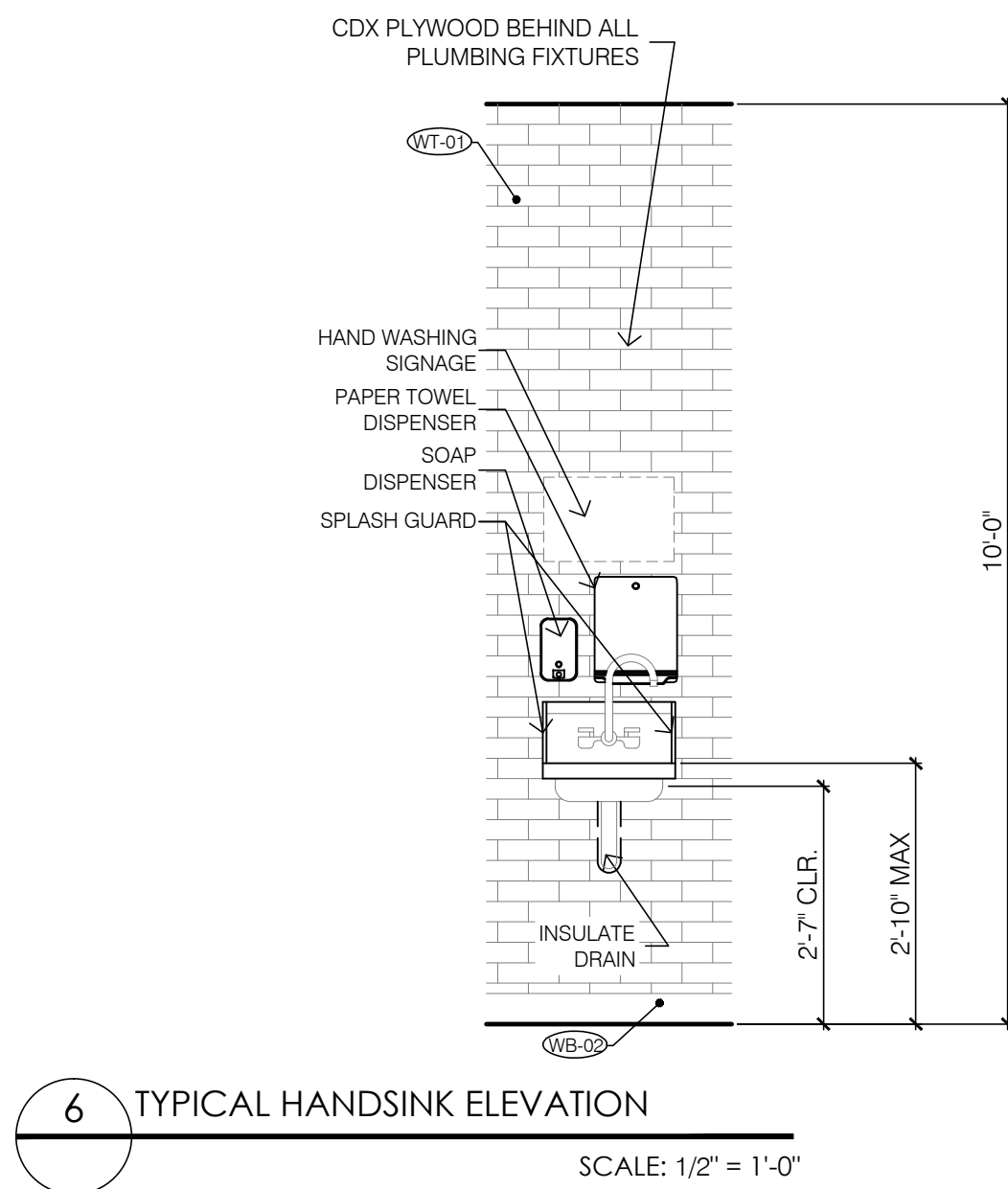
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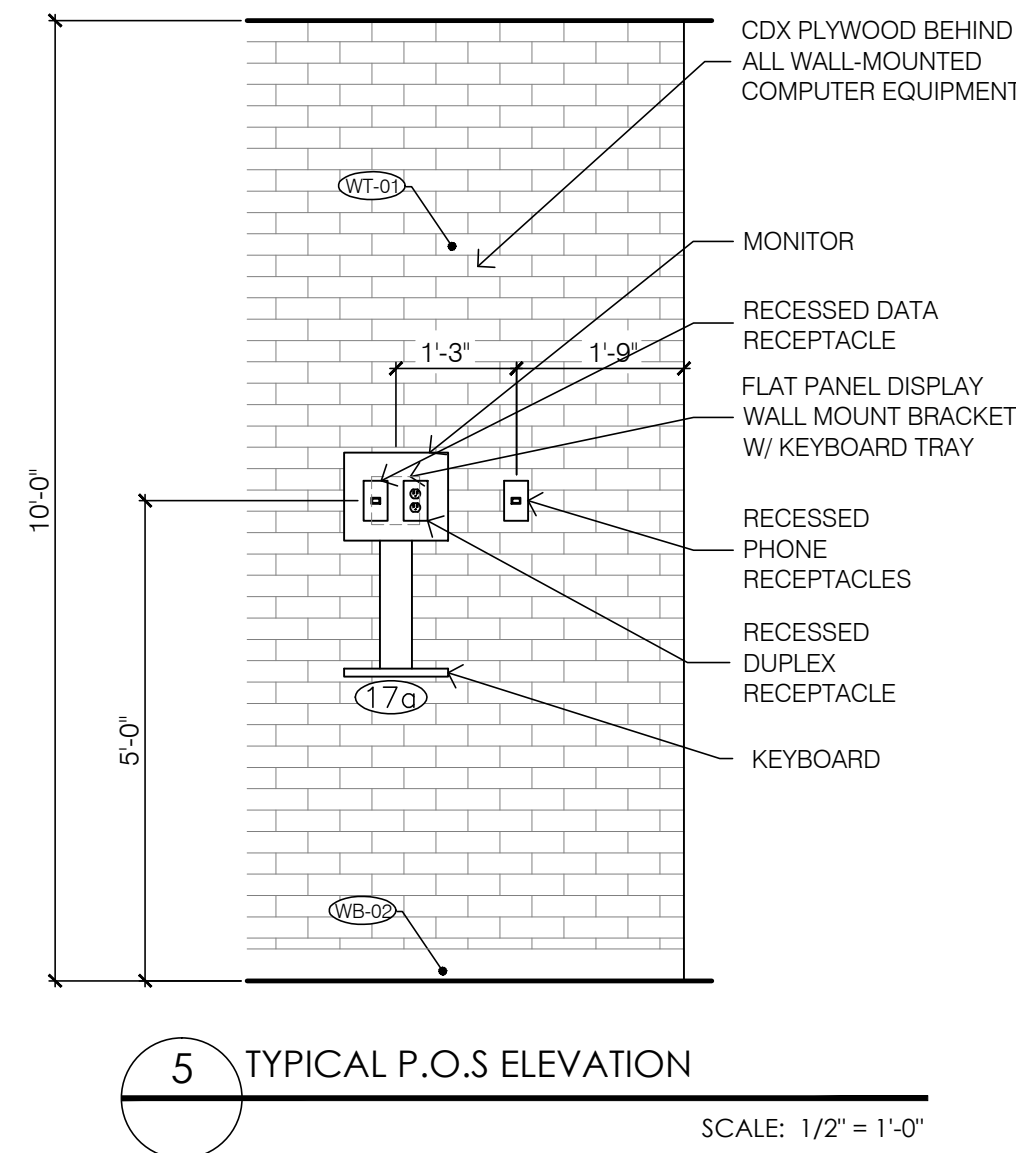
7 CLEAN UP AREA ELEVATION
SCALE: 1/2" = 1'-0"



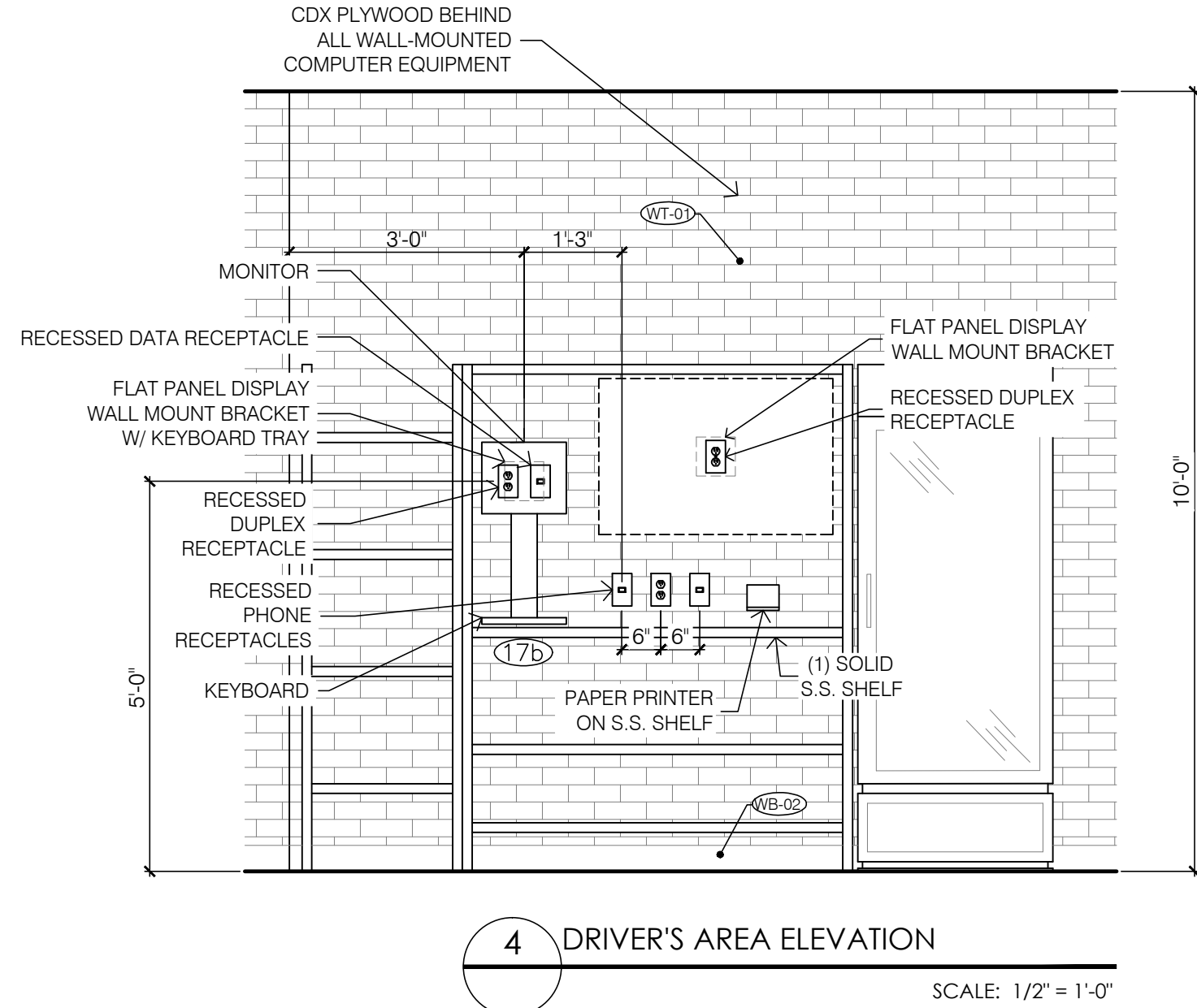
3 MANAGER'S DESK ELEVATION
SCALE: 1/2" = 1'-0"



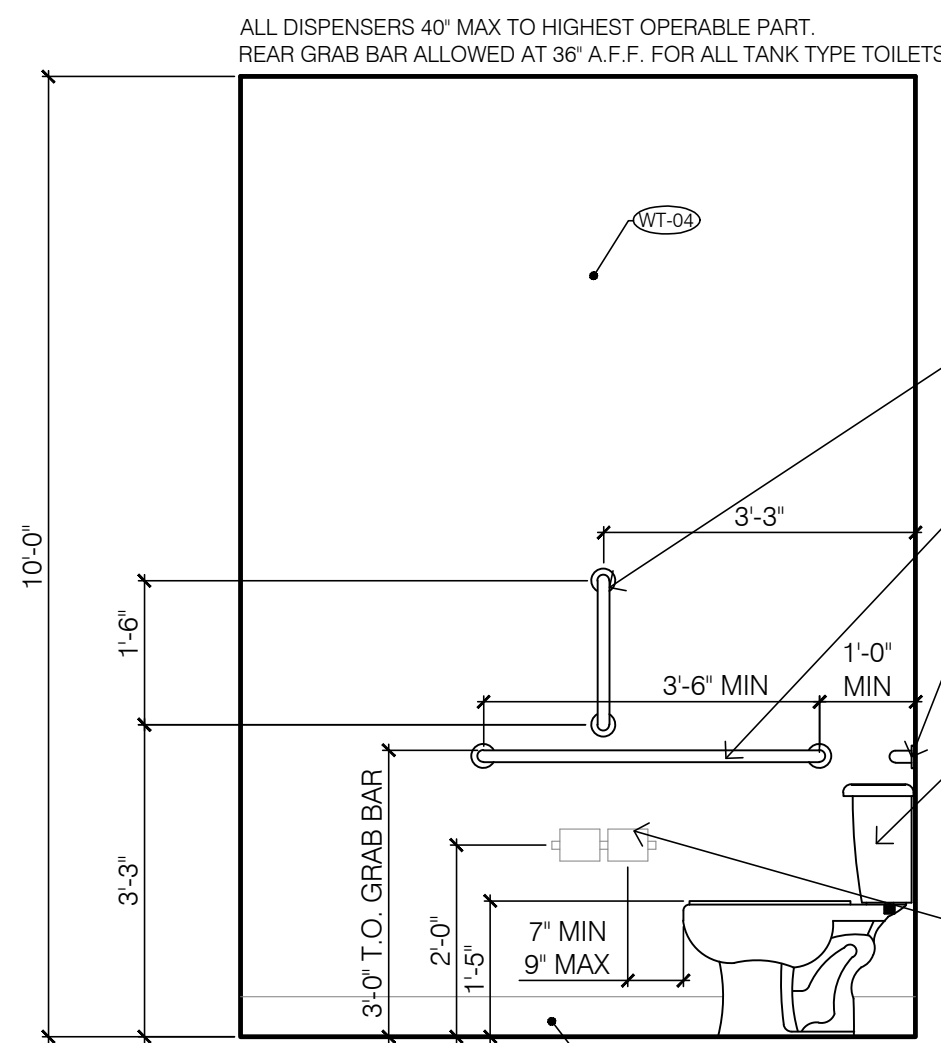
6 TYPICAL HANDSINK ELEVATION
SCALE: 1/2" = 1'-0"



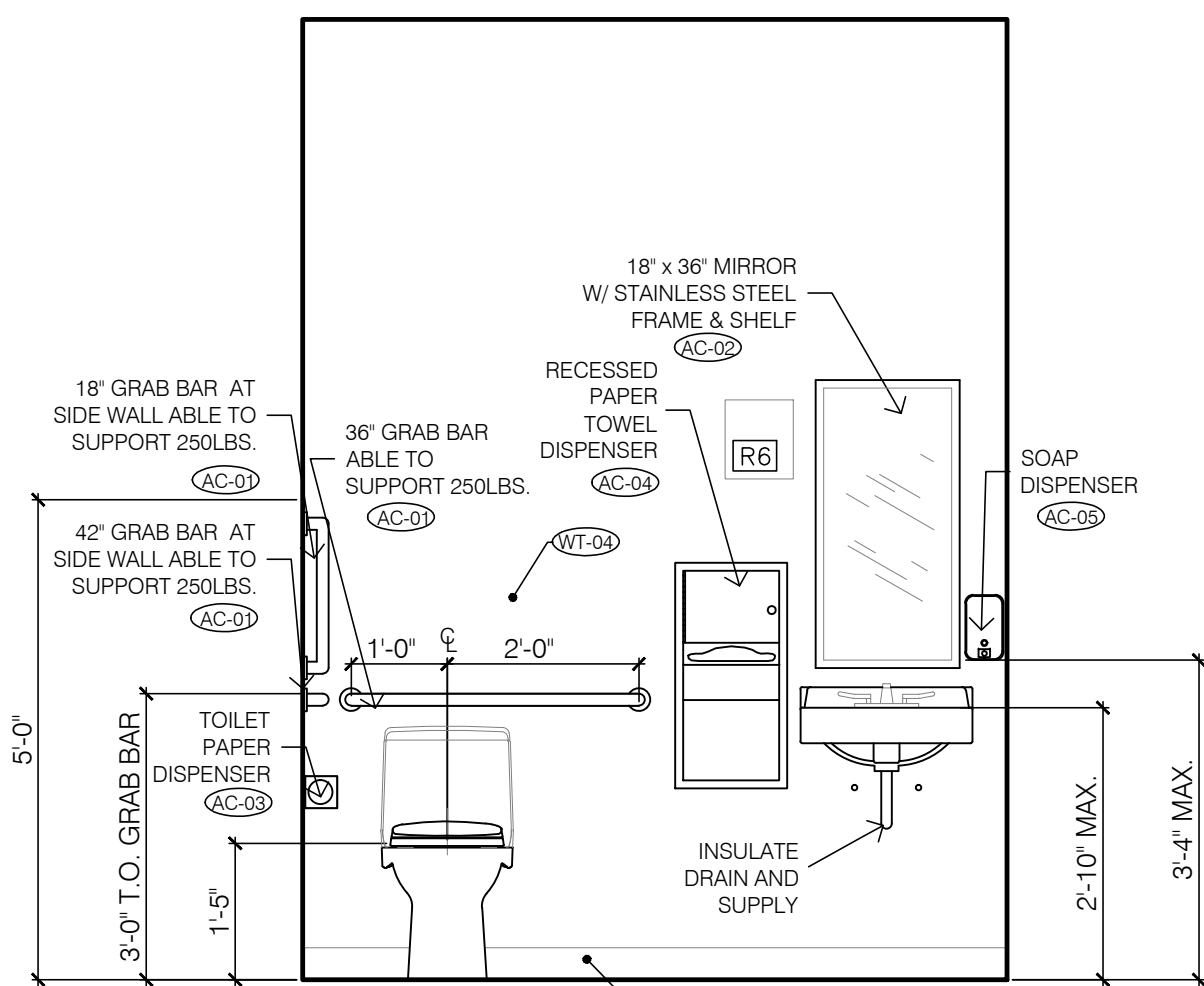
5 TYPICAL P.O.S ELEVATION
SCALE: 1/2" = 1'-0"



4 DRIVER'S AREA ELEVATION
SCALE: 1/2" = 1'-0"

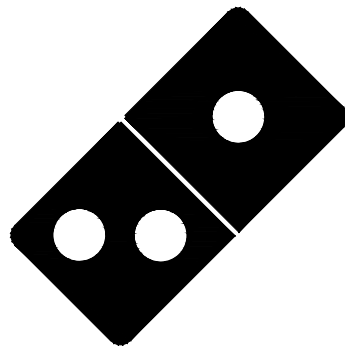


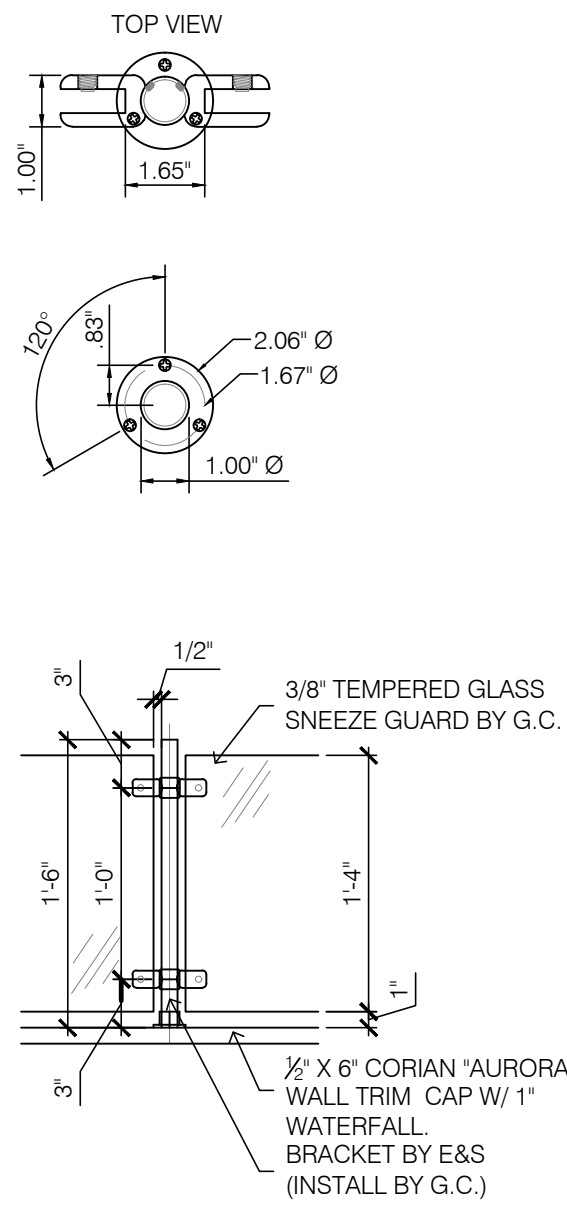
2 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



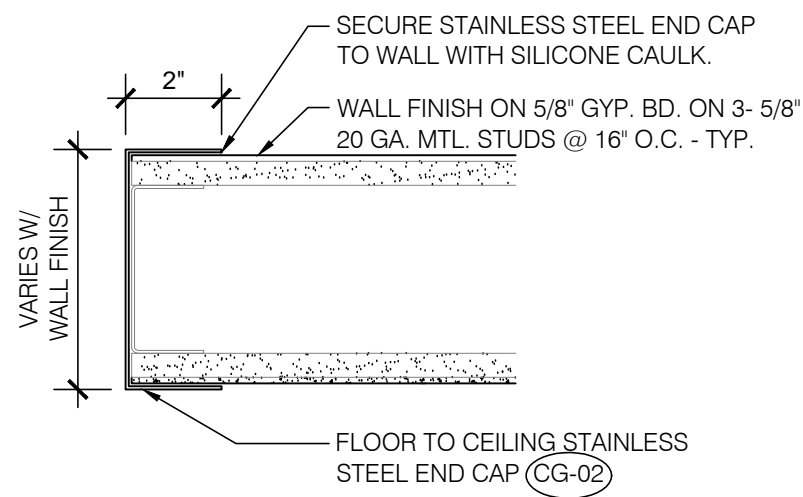
1 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"

TOILET ACCESSORY LEGEND (BY G.C.)						
MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT
AC-01	ADA GRAB BAR - 1.25" Ø	BOBRICK	B-5806	----	----	SIZE AND LOCATION ON PLAN
AC-02	MIRROR	BOBRICK	B-165 1836	----	----	MOUNT @ 40" A.F.F. MAX. TO BOT. OF REFLECTIVE SURFACE
AC-03	TOILET PAPER DISPENSER	BOBRICK	B-265	----	----	WALL MOUNT @ 24" A.F.F. MAX. TO CENTER OF ROLL
AC-04	RECESSED PAPER TOWEL DISPENSER	BOBRICK	B-369	----	----	WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-05	SOAP DISPENSER	BOBRICK	B-2111	----	----	WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-06	XLERATOR HIGH VELOCITY HAND DRYER	EXCEL DRYER INC.	XL-SB	----	S.S.	WALL MOUNT (OPTIONAL) SUBSTITUTE FOR AC-04
AC-07	ACCESSIBLE TOILET - LH	ZURN	Z5550	WHITE	----	LEFT HAND, FLOOR MOUNT, FRONT SEAT
AC-07	ACCESSIBLE TOILET - RH	ZURN	Z5550	WHITE	----	RIGHT HAND, FLOOR MOUNT, FRONT SEAT
NOTE: FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF WATER CLOSET						
AC-08	ACCESSIBLE SINK	ZURN	Z5040	WHITE	----	WALL MOUNT, MEETS ADA AND ANSI A117.1 REQUIREMENTS WITH REAR 34" A.F.F.

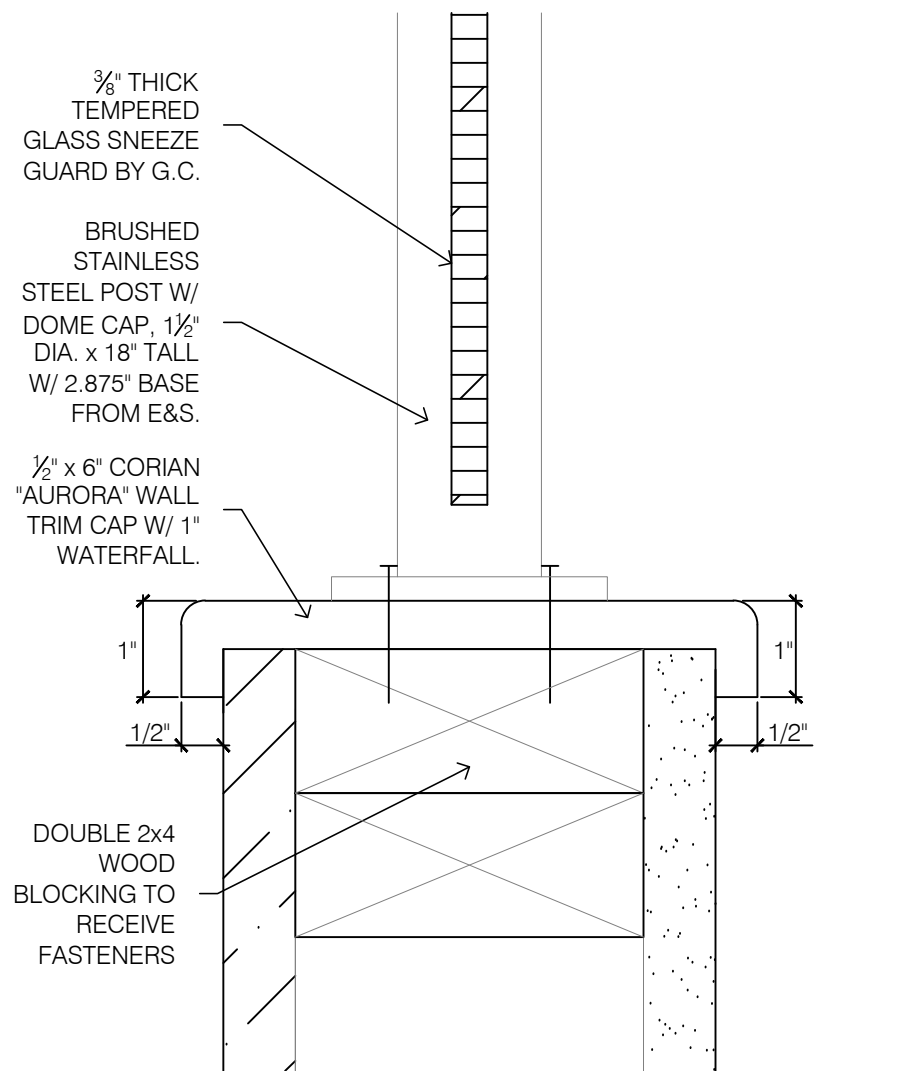




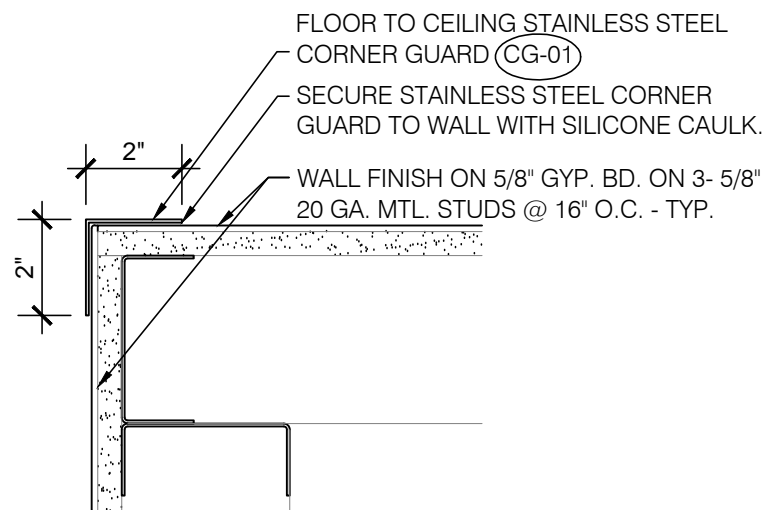
4 SNEEZE GUARD SUPPORT BRACKET DETAIL
SCALE: 1" = 1'-0" & 3" = 1'-0"



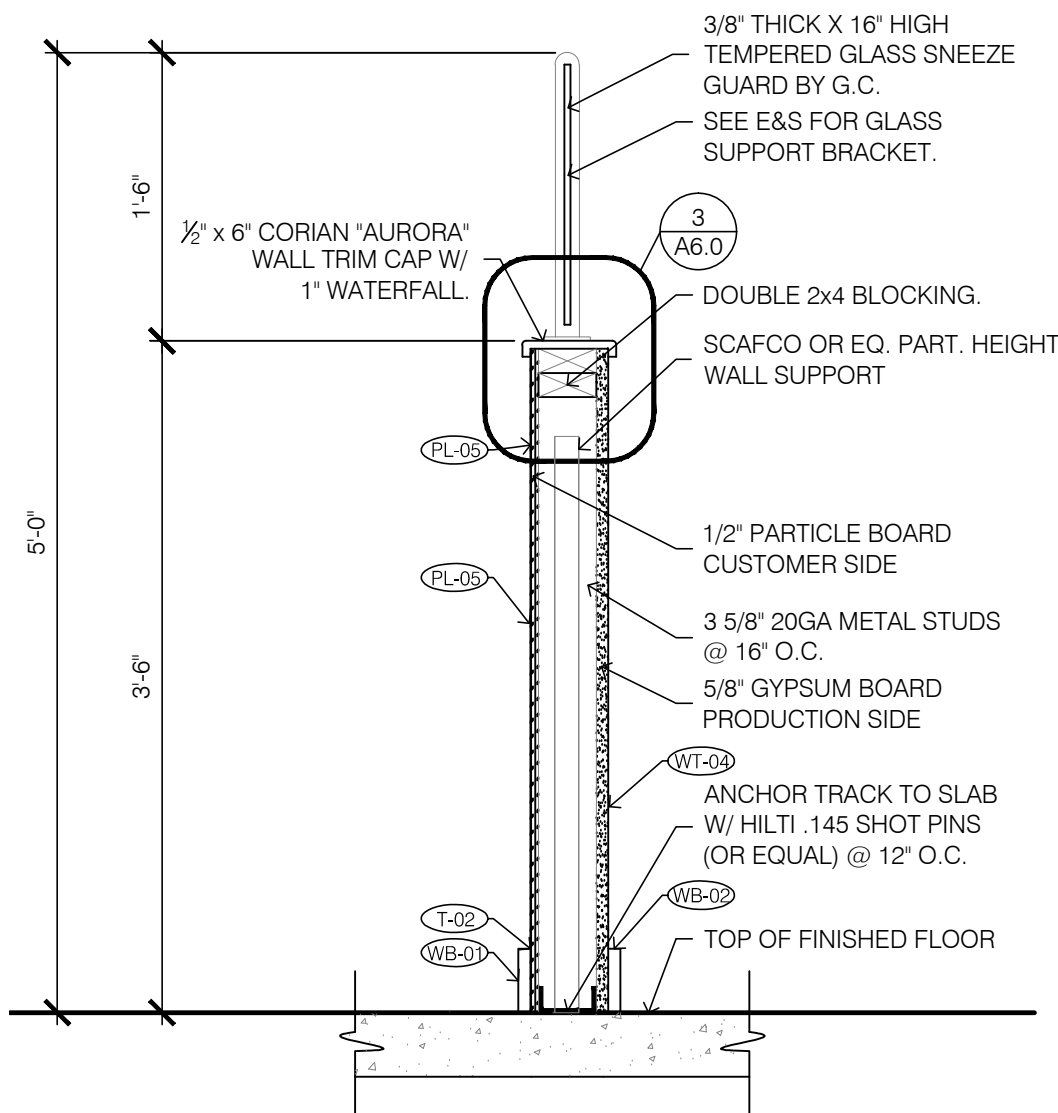
7 STAINLESS STEEL END CAP DETAIL
SCALE: 3" = 1'-0"



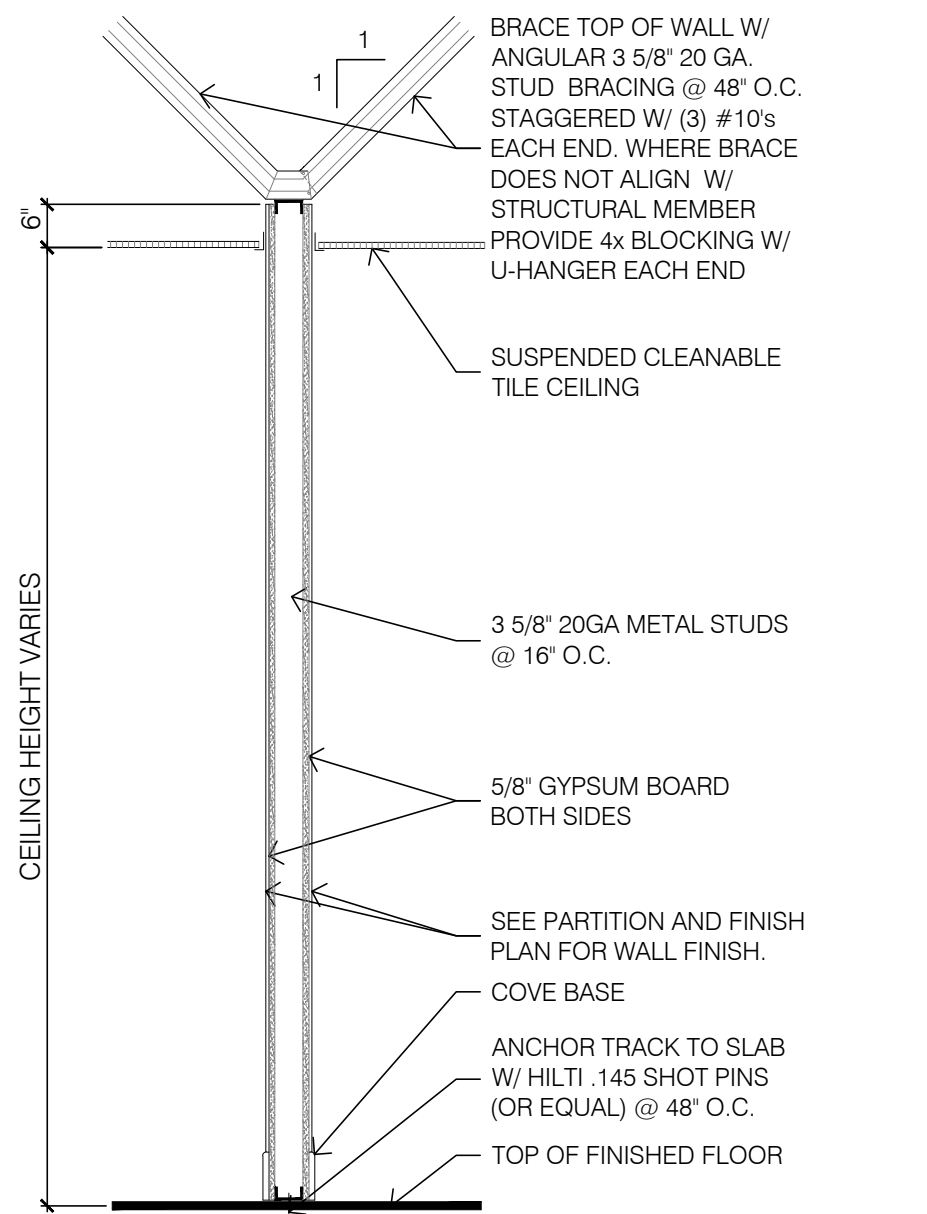
3 GLASS SNEEZE GUARD DETAIL
SCALE: 6" = 1'-0"



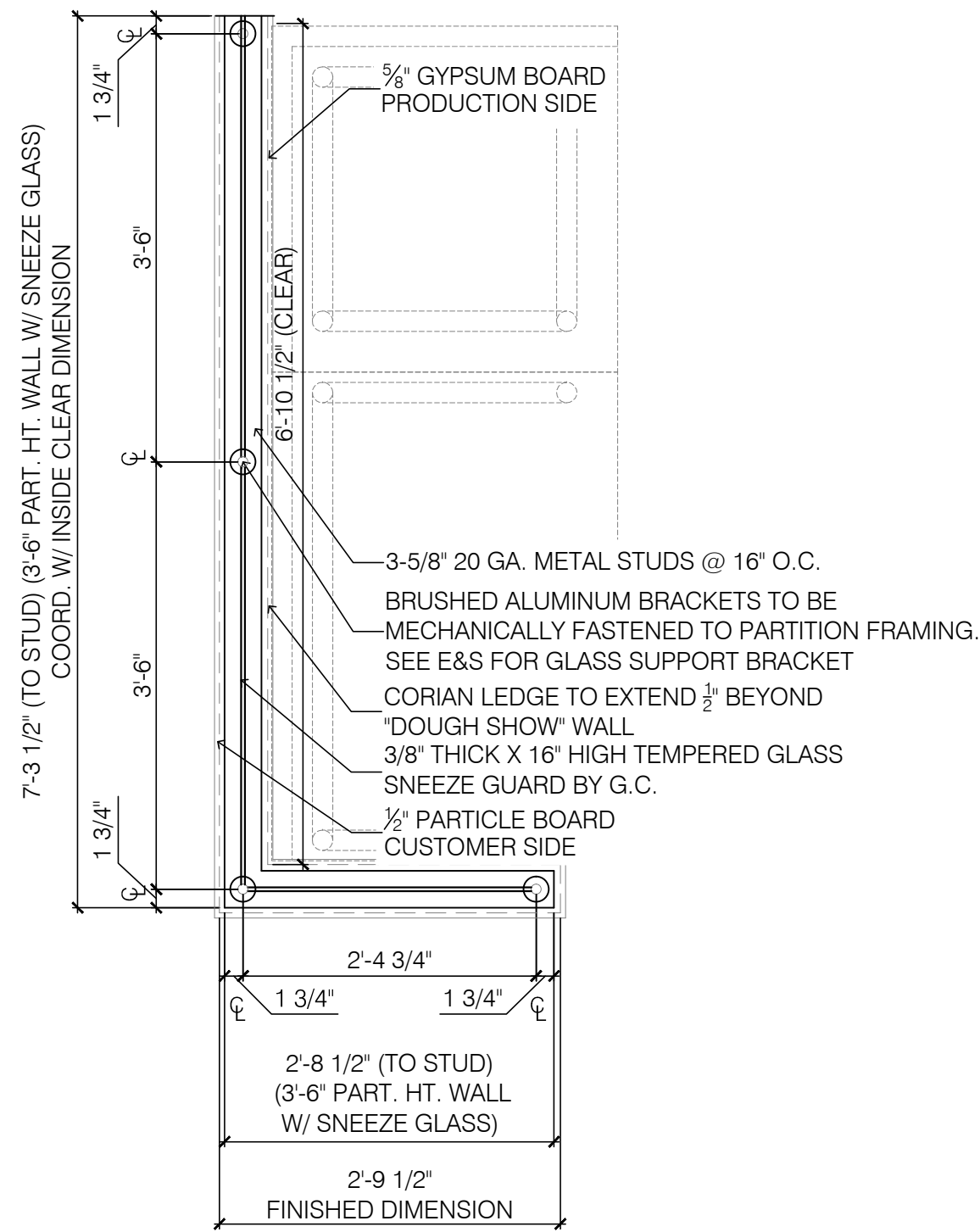
6 STAINLESS STEEL CORNER GUARD DETAIL
SCALE: 3" = 1'-0"



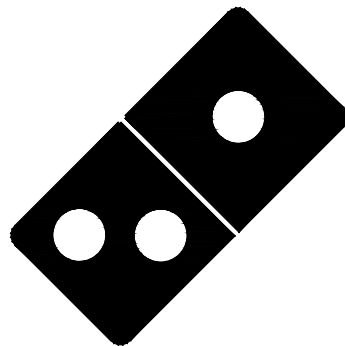
2 PT. HEIGHT DOUGH WALL
SCALE: 1" = 1'-0"



5 TYPICAL INTERIOR PARTITION
SCALE: 1/2" = 1'-0"



1 SNEEZE GUARD WALL PLAN DETAIL
SCALE: 3/4" = 1'-0"



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- THE ELECTRICAL WORK SHALL INCLUDE FURNISHING ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INSURANCE AND PERFORM OPERATIONS REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND OPERATIVE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.
- ALL MATERIAL FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRIC CODE, STATE OR LOCAL ELECTRICAL CODES, AND THE REQUIREMENTS OF THE UTILITY COMPANIES. WHERE CONFLICTS OCCUR, THE MORE STRINGENT OR THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION SHALL APPLY.
- WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN SHALL BE FURNISHED AND INSTALLED COMPLETE TO PERFORM REQUIRED FUNCTION.
- ELECTRICAL PLANS ARE DIAGRAMMATICAL. DO NOT SCALE. COORDINATE ACTUAL LOCATIONS OF ALL DEVICES AND ROUTING OF ALL RACEWAYS WITH ARCHITECT AND ALL TRADES PRIOR TO ANY ROUGH-IN.
- ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. THE MATERIAL SHALL BE THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURER'S.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF ALL OTHER TRADES. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SEE THAT THIS WORK IS INSTALLED IN A TIMELY MANNER. PLAN AND INSTALL ALL ELECTRICAL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. CONSULT ALL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS. WHERE INTERFERENCE WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER OR ARCHITECT.
- THIS CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND VISIT THE SITE PRIOR TO SUBMITTING HIS BID. HE SHALL INCLUDE ALL WORK IN HIS BID DISCERNIBLE FROM REVIEW OF DOCUMENTS AND SITE VISIT. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR LACK OF REASONABLE REVIEW OF DOCUMENTS AND SITE VISIT.
- THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL EIGHT (8) SETS OF SHOP DRAWINGS ON THE FOLLOWING: PANELBOARDS, DISCONNECT SWITCHES, LIGHTING FIXTURES, LAMPS, DEVICES AND COVERPLATES, FIRE ALARM EQUIPMENT AND ANY OTHER ITEMS REQUESTED BY THE ARCHITECT.
- THIS CONTRACTOR SHALL LEAVE EACH ENTIRE ELECTRICAL SYSTEM IN PROPER WORKING ORDER AND SHALL REPLACE ANY WORK OR MATERIAL PROVIDED BY HIM UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN (1) YEAR OF FINAL ACCEPTANCE BY OWNER.
- THIS CONTRACTOR SHALL PROVIDE, MAINTAIN AND REMOVE AFTER CONSTRUCTION IS COMPLETE, AND ADEQUATE TEMPORARY POWER AND LIGHTING SYSTEM.
- PANELBOARDS SHALL BE OF THE SAME MANUFACTURER, (SQUARE "D", CUTLER-HAMMER, GE OR ITE/SEIMENS). PROVIDE SCREW-ON ENGRAVED NAMEPLATES FOR ALL DISTRIBUTION EQUIPMENT.
- THIS CONTRACTOR SHALL PROVIDE NEW, TYPED, PANELBOARD DIRECTORIES FOR ALL NEW AND/OR EXISTING PANELS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORIES SHALL INDICATE THE LOAD TYPE AND AREA SERVED. PROVIDE ALL FIELD VERIFICATION WORK AS NECESSARY.
- LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS, HANGERS AND INCIDENTALS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE. ALL LIGHTING FIXTURES, LAMPS AND LENSES SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH HIGH IMPACT NYLON COVERPLATES. COLOR OF DEVICES AND COVERPLATES AS DIRECTED BY THE ARCHITECT. ACCEPTABLE MANUFACTURER'S ARE HUBBELL, P&S, GENERAL ELECTRIC AND COOPER INDUSTRIES.
- WIRE SHALL BE "THIN" OR "XHHW" COPPER, 90°C, 600 VOLTS. SOLID SIZE 10 AND SMALLER, STRANDED SIZE 8 AND LARGER. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE A GREEN CODE SIZE EQUIPMENT GROUND. MINIMUM SIZE WIRE #12 AWG, UNLESS OTHERWISE NOTED.
- ALL INTERIOR WIRING SHALL BE IN EMT WITH STEEL, SET SCREW FITTINGS. EMT SHALL BE USED IN ALL BLOCK (CMU) WALLS. TYPE MC (METAL-CLAD) CABLE MAY BE USED ON THIS PROJECT SUBJECT TO MEETING ALL OF THE FOLLOWING CONDITIONS:
A. THE LOCAL AUTHORITIES HAVING JURISDICTION MUST ALLOW THE USE OF MC CABLE.
B. THE ARCHITECT AND OWNER MUST APPROVE OF THE USE OF MC CABLE.
C. THE CABLE STRUCTURE AND INSTALLATION ARE IN ACCORDANCE WITH UL, NEC AND LOCAL CODE REQUIREMENTS.
D. THE MC CABLE CONDUCTOR SIZE MEETS THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS AND NEC. THE MINIMUM WIRE SIZE SHALL BE #12 AWG, THIN OR THWN.
E. THE MC CABLE MUST CONTAIN AN NEC SIZED GREEN GROUND CONDUCTOR FOR ALL CIRCUITS.
F. RECORD DRAWINGS (AS-BUILT DRAWINGS) SHALL REFLECT THE USE AND ROUTING LOCATIONS OF THE MC CABLE.
- THIS CONTRACTOR SHALL COORDINATE AN MAKE FINAL CONNECTIONS FOR MECHANICAL EQUIPMENT. SIZE ALL FUSES/CIRCUIT BREAKERS PROTECTING MECHANICAL EQUIPMENT PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, OUTLET AND JUNCTION BOXES, MOTOR STARTERS, DISCONNECT AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO BID.
- THIS CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS OR DAMAGED OR DISRUPTED CIRCUITS OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER OR ARCHITECT.
- ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION THAT CONFORM TO UNDERWRITER'S LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE WITH THE UL. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATIONS, WITH ALL VARIABLES DEFINED.
- THE FINAL DETERMINATION OF EXIT LIGHTING LOCATIONS AND EGRESS PATHWAYS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. THE CONTRACTOR SHALL CONFIRM AND VERIFY THE LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTING WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE SYSTEM FURNITURE JUNCTION BOX LOCATIONS WITH THE SUPPLIER AND MAKE ALL FINAL FLEXIBLE CONNECTIONS TO SAME.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFO	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
GF	GROUND FAULT
INT	INTERRUPTER
GRD	GROUNDING/BONDING
NL	NIGHT LIGHT
MCC	MOTOR CONTROL CENTER
NIC	NOT IN CONTRACT
PNL	PANEL
SES	SERVICE ENTRANCE SECTION
SWBD	SWITCHBOARD
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
A/C	AIR CONDITIONING UNIT
E/C	EVAPORATIVE COOLER
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS

DEVICE MTG. HEIGHTS

ALL HEIGHTS ARE ABOVE FINISHED FLOOR AND TO THE CENTERLINE OF THE DEVICE U.N.O.	
RECEPTACLES	+18"
TELEPHONE OUTLETS	+18"
DATA OUTLETS	+18"
ABOVE COUNTER RECEPTACLES, TELEPHONE AND DATA OUTLETS VERIFY WITH ARCHITECT PRIOR TO ROUGH IN.	
SWITCHES	+48"
DIMMERS	+48"
OTHER CONTROLS	+48"
TIME SWITCHES	+48"
RECEPTACLE(S) LOCATED AT TMB	+48"
FA MANUAL PULL STATION	+48"
FA VISUAL DEVICES	+80"
FA AUDIO DEVICES	+80"

PANELBOARD SYMBOLS SCHEDULE

- INDICATES EXISTING LOAD AND BREAKER TO REMAIN, NO REVISION. EXISTING LOADS MAY HAVE BEEN ESTIMATED.
- ① INDICATES CIRCUIT BREAKER TO BE SUITABLE AND U.L. LISTED FOR "SWITCHING DUTY"
- INDICATES NEW LOAD HAS BEEN ADDED TO EXISTING BREAKER.
- INDICATES EXISTING LOAD HAS BEEN REMOVED, BREAKER TO BECOME SPARE.
- INDICATES NEW LOAD AND NEW BREAKER ADDED TO EXISTING BUSSED SPACE.
- INDICATES EXISTING LOAD AND BREAKER HAS BEEN REMOVED AND REPLACED WITH NEW BREAKER AND NEW LOAD.
- ◆ INDICATES PROVIDE LOCK-CLOSED DEVICE ON THE BREAKER.
- ◇ INDICATES PROVIDE LOCK-OPEN DEVICE ON THE BREAKER.
- ▽ INDICATES ISOLATED GROUNDED CIRCUIT.
- ◇ INDICATES CIRCUIT THRU LIGHTING CONTRACTOR. SEE WIRING DIAGRAM.
- ▲ INDICATES CIRCUIT THRU PHOTO ELECTRIC CELL. PROVIDE 20A. PHOTO CELL AS REQUIRED.
- ◆ INDICATES CIRCUIT THRU TIME CLOCK. PROVIDE A TIME CLOCK AS REQUIRED.
- N INDICATES NON-CONTINUOUS LOAD ● 100%
- C INDICATES CONTINUOUS LOAD ● 125%
- M INDICATES MOTOR LOAD ● 100%
- LM INDICATES LARGEST MOTOR LOAD ● 125%
- SR INDICATES SPARE CIRCUIT BREAKER
- SP INDICATES BUSSED SPACE
- GF INDICATES GFCI CIRCUIT BREAKER

ELECTRICAL SYMBOLS

NOTE: SOME SYMBOLS IN THIS LIST MAY NOT BE USED FOR THIS PROJECT.

CEILING MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

WALL MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

WALL WASHER LIGHT FIXTURE. ARROW INDICATES GENERAL DIRECTION OF WASH. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

FLOURESCENT LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

TRACK LIGHTING SYSTEM. TRIANGLES DENOTE TRACK LIGHT FIXTURES. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

POLE MOUNTED LIGHT FIXTURE. L# DESIGNATES TYPE. MULTIPLE LUMINARIES AS SHOWN ON PLANS. SEE LIGHT FIXTURE SCHEDULE FOR DETAIL. SEE POLE MOUNTING DETAIL FOR POLE INFORMATION.

SPOT OR FLOOD LIGHT. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

FLOURESCENT LIGHT FIXTURE WITH (2) LAMPS SERVED BY A FULL LIGHT OUTPUT EMERGENCY BALLAST. "NL" INDICATES FIXTURE SHALL BE CONNECTED TO UNSWITCHED CIRCUIT. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.

EXIT LIGHT FIXTURE. MOUNTING NOT SHOWN ON DRAWINGS. SHADED PORTION INDICATES FACE OF SIGN. PROVIDE ARROWS ON FACE(S) OF FIXTURE AS SHOWN ON PLANS. SEE FIXTURE SCHEDULE FOR DETAILS.

JUNCTION BOX IN ACCESSIBLE LOCATION.

FLEXIBLE CONDUIT EQUIPMENT CONNECTION. PROVIDE GROUND BUSHING AND GROUND CONDUCTOR IN ACCORDANCE WITH THE NEC. PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FOR EQUIPMENT LOCATED OUTSIDE.

TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.

TWO POLE TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.

THREE WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.

FOUR WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O.

MOTOR RATED SWITCH, VOLTAGE AND PHASE RATED WITH THERMAL OVERLOAD PROTECTION. NEMA 3R WHEN LOCATED OUTSIDE.

TIMECLOCK. 3-POLE SINGLE THROUGH. 24-1R ASTRONOMIC DIAL WITH DAY OMITTING DEVICE. RESERVE POWER, AND NEMA 1 ENCLOSURE FOR INDOORS - NEMA 3R ENCLOSURE WHEN LOCATED OUTSIDE. EQUAL TO TORK #7300-ZL U.N.O.

PHOTOCELL SWITCH. MOUNT ABOVE ROOF AND AIM NORTH. EQUAL TO TORK #2100.

DIMMER SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. SUPERSCRIPT NUMBER INDICATES: 1=1000 WATTS, 2=2000 WATTS, NONE =600 WATTS. DO NOT REMOVE COOLING FINS.

DUPLEX RECEPTACLE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.

DUPLEX RECEPTACLE. MOUNT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.

SWITCH RATED DUPLEX RECEPTACLE. TIE STRAP REMOVED FOR "CONSTANT" AND SWITCHED LEG CONTROL WIRING.

CEILING MOUNTED DUPLEX RECEPTACLE

QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.

QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.

CIRCUIT BREAKER. AMPERAGE/POLES, AS INDICATED.

SWITCH WITH FUSES. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.

FUSED PULL-OUT SWITCH. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.

FUSE. SIZE AND TYPE AS INDICATED. ALL FUSE TYPES NOTED ARE BUSMAN DESIGNATIONS U.N.O.

TRANSFORMER. DRY TYPE. PAD MOUNT, WITH KVA, PRI. & SEC. VOLTAGE, MIN. IMPEDANCE, AND "K" RATING AS NOTED. 150°C RISE U.N.O. PROVIDE SEPARATELY DERIVED SOURCE GROUNDING PER NEC 250-26. CONDUCTOR SIZE AS NOTED.

SERVICE ENTRANCE SECTION. SEE ONE-LINE DIAGRAM.

FLUSH FLOOR OUTLET WITH DEVICE SHOWN. PROVIDE WITH BRASS DEVICE PLATE AND CARPET FLANGE. IN CARPETED AREAS. TELEPHONE AND DATA OUTLETS SHALL HAVE MIN. 1" CU. WITH PULL STRING STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT BUSHINGS ABOVE CEILING.

SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION NOTED, ie: 6-50, 15-20, ETC.

MULTI OUTLET ASSEMBLY (MOA). MOUNT AT 6" ABOVE COUNTER SPLASH WHERE LOCATED BEHIND COUNTER, OR AT 12" U.N.O.

RECEPTACLE SUBSCRIPTS - PROVIDE THE FOLLOWING DEVICE FEATURES WHERE NOTED:

GF	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND. PROVIDE SEPARATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
V	CORD AND CAP. PROVIDE 6" CORD AND CAP FOR THE EQUIPMENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.
CC	

DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND PER NEC 800-40.

DATA AND TELEPHONE OUTLETS COMBINED IN ONE BOX. PROVIDE (2) 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

SPEAKER, PROVIDE SPEAKER, BACKBOX, AND GRILL. VERIFY MOUNTING TYPE AND LOCATION WITH SPECIFICATIONS AND PLANS.

2"x 2"x 3/4" THICK FIRE RATED TELEPHONE MOUNTING BOARD. MOUNT AT 6" BELOW CEILING. PROVIDE #6 SOLID CU GROUND PER NEC 800-40.

CIRCUITS IN CONCEALED CONDUIT U.N.O. NO DISTINCTION IS MADE FOR UNDERGROUND OR OVERHEAD CONDUITS. (---) INDICATES HOMERUN TO PANELBOARD OR AS NOTED.

HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS, WHERE NO HACHURES ARE SHOWN PROVIDE 2#12 CU. #12 CU BOND IN 1/2" CONDUIT. WHEN HOMERUN CONDUCTORS ARE LARGER THAN #12, PROVIDE INDICATED SIZE FOR ENTIRE LENGTH OF CIRCUIT. BOND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN. PROVIDE EQUIPMENT BOND WITH ALL CIRCUITS PER NEC 250-95. PROVIDE ISOLATED GROUND FOR IG RECEPTACLES PER NEC 250-95.

PANELBOARD. SURFACE OR FLUSH MOUNTED AS NOTED IN PANEL SCHEDULE.

MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES EXHAUST FAN.

PREWIRED MOTOR CONTROLLER FURNISHED WITH EQUIPMENT.

MAGNETIC MOTOR STARTER. SIZE, VOLTAGE, PHASE, AND NUMBER OF POLES AS REQUIRED. FURNISHED WITH (1) N.O./N.C. FIELD CONVERTIBLE AUXILIARY CONTACT. SHALL BE SINGLE SPEED NON-REVERSING U.N.O. PROVIDE NEMA 3R WHEN LOCATED OUTSIDE.

COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH ENCLOSURE. SEE DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SYMBOLS.

HEAVY DUTY DISCONNECT SWITCH. PROVIDE AS NOTED: AMPERAGE/VOLTAGE/NO. OF POLES/WEATHERPROOF FUSE SIZE AND DESIGNATION. NF = NON-FUSIBLE

TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

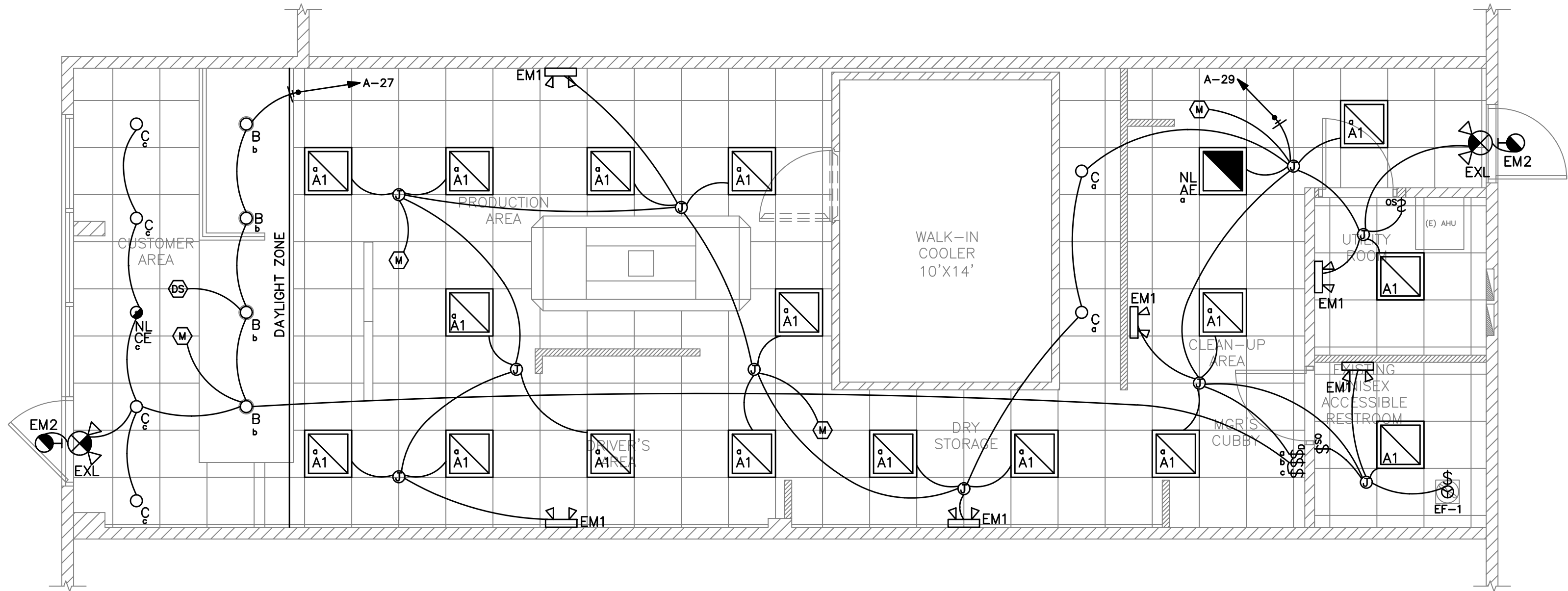
FAULT CURRENT SCHEDULE

DEVICE	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER					
			FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R
SES	42,000	120V	42,000	0.002802	0.0005603					(2)#3/0	0.039	0.023		0	0
A	10,000	120V	5,841	0.0117	0.01688	SES	42,000	0.002802	0.0005603	#3/0	0.042	0.077	212'	0.0089	0.0163
B	10,000	120V	5,377	0.01225	0.01865	A	5,841	0.0117	0.01688	#1	0.046	0.15	12'	0.0005	0.0018

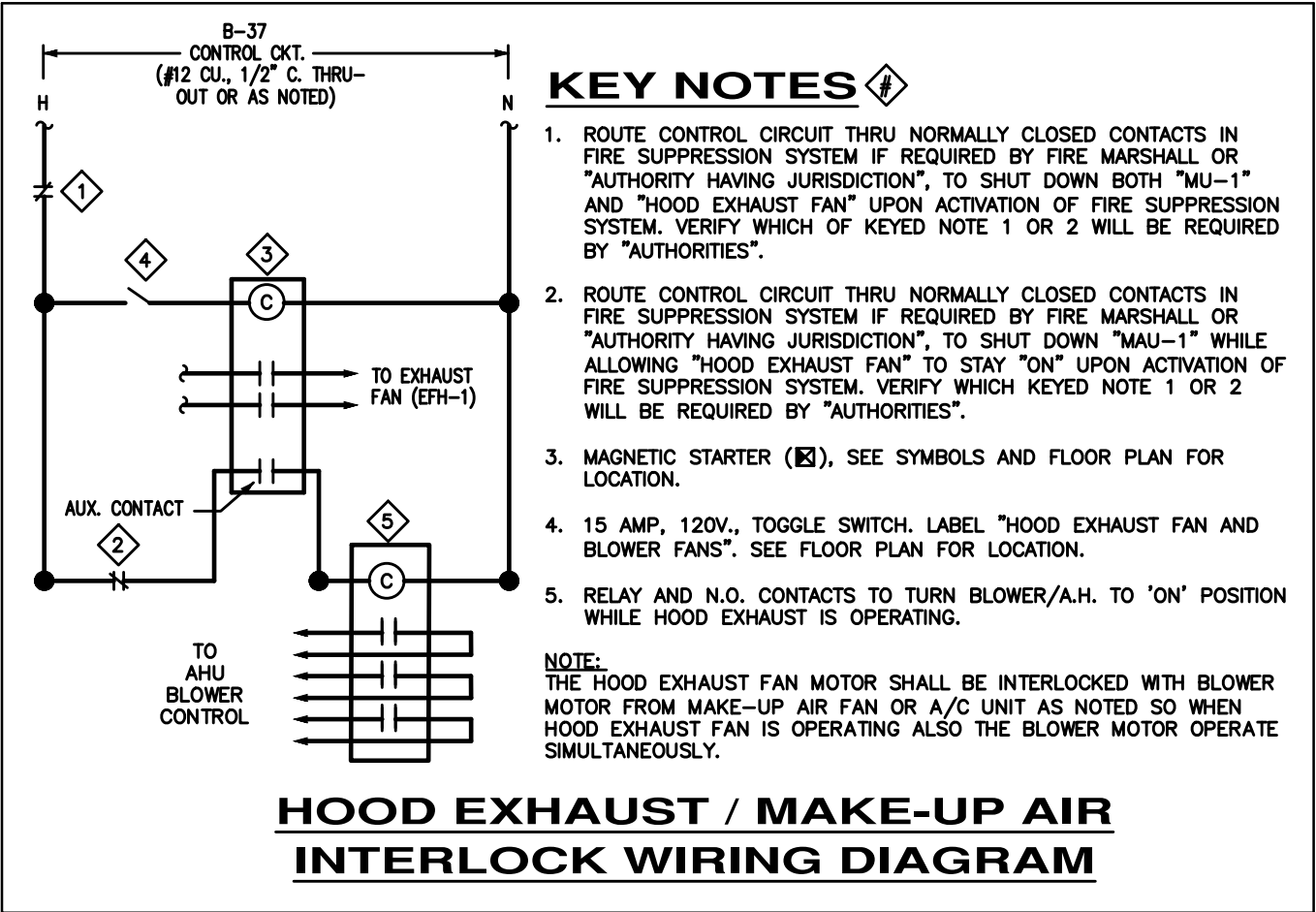
ROOM			VOLTS 208Y/120V 3P 4W					AIC 10,000				
MOUNTING FLUSH			BUS AMPS 200					MAIN BKR MLO				
FED FROM SES			NEUTRAL 100%					LUGS STANDARD				
NOTE			EXISTING									
OKT #	OKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			#	OKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			
			A	B	C				A	B	C	
1	20/1	K24 60" HEAT LAMP GFCI	1.26			2	20/1	BLDG.SIGN.	1.2			
3	20/1	K24 60" HEAT LAMP GFCI		1.26		4	-/1	SPACE				
5	20/1	K24 60" HEAT LAMP GFCI		1.26		6	20/2	AHU-1(E) EXISTING		0	0.432	
7	20/1	MISC. W/H & PUMP	0.6			8	-/1	SPACE	0.432			
9	20/1	DINING RM REC. GFCI		0.18		10	20/3	CU-1(E) EXISTING		1.59		
11	20/1	SMOKE DETECTOR		0.15		12	-/1	SPACE				
13	20/1	K10 MAKELINE LCP GFCI	1.03			14	-/1	SPACE	1.59	1.59		
15	-/1	SPACE			0	16	20/1	WALK-IN COOLER HEAT TAPE & LIGHTS		0.72		
17	20/1	MISC. SHOW WINDOW LTG.		1.2		18	30/2	K27B WALK-IN COOLER CONDENSING UNIT		1.89		
19	30/2	208V DRYER	2.88			20	-/1	SPACE	1.89			
21	20/1	CLOTHES WASHER GFCI		2.88		22	20/1	K27A EVAP UNIT		0.24		
23	20/1	K20 1- DOOR VRS-COOL GFCI	0.9		1.5	24	20/1	MAKELINE REC. GFCI			0.72	
25	20/1	CUST AREA LIGHTING		0.166		26	100/3	PANEL B		7.08		
27	20/1	PROD AREA EF-1, LIGHTING		0.908	30	28	-/1	SPACE		7	9.51	
						TOTAL CONNECTED KVA BY PHASE			18.9	14	19.2	
						TOTAL CONNECTED AMPS BY PHASE			157	117	160	

LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	INPUT WATTS	VOLTS
A1		(1) LED	COLUMBIA LJ22-50-VLG-FSA12-EDU	2'X2' LED 4718 LUMEN PRISMATIC TROFFER	STANDARD	CEILING	42	120V 1P 2W
AE		(1) LED	COLUMBIA LJ22-50-VLG-FSA12-EDU-ELL14	2'X2' LED 4718 LUMEN PRISMATIC TROFFER NIGHT LIGHT.	STANDARD	CEILING	42	120V 1P 2W
B		(1) LED	LOTUS LED LL6R-30K-WH-FRP6	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
C		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
CE		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT NIGHT LIGHT	STANDARD	RECESSED	17	120V 1P 2W
EM1		(2) 0.56W LED	COMPASS (HUBBELL) CU2	LED EMERGENCY LIGHT WITH EMERGENCY BATTERY BACK UP 90 MINUTE MINIMUM.	STANDARD	WALL	1	120V 1P 2W
EM2		(2) 3W LED	COMPASS (HUBBELL) CUW	DECORATIVE LED AC/EMERGENCY LIGHT WATERPROOF	STANDARD	WALL	9	120V 1P 2W
EXL		(1) 4.12W LED	COMPASS (HUBBELL) CCR	EXIT SIGN WITH EMERGENCY BATTERY BACKUP 90 MIN MINIMUM	STANDARD	WALL	4.12	120V 1P 2W

GENERAL NOTES:
A. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE & FIXTURE FINISHES, LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO PURCHASING ANY EQUIPMENT. ALSO CONFIRM THE EXACT CEILING TYPE PRIOR TO ORDERING ANY FIXTURES.
B. CONNECT ALL EXIT AND EMERGENCY LIGHTING TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.



ELECTRICAL LIGHTING PLAN
SCALE: 1/4"=1'-0"



LIGHT SENSOR SYMBOLS:

- STANDARD RANGE ULTRASONIC/INFRARED SENSOR (MOUNTED TO CEILING)
MFR: SENSORSWITCH, CAT# CMR-PDT-9. (OR EQUAL)
- STANDARD RANGE AUTOMATIC DIMMING CONTROL SENSOR (MOUNTED TO CEILING)
MFR: SENSORSWITCH, CAT# CMR-ADC. (OR EQUAL)
(LOWER CASE LETTER DESIGNATES WHICH FIXTURES ARE TO BE CONTROLLED BY THIS SENSOR)
- WALL MOUNTED TIME SWITCH WITH OVERRIDE FUNCTION.
MFR: INTERMATIC, CAT# E860WC. (OR EQUAL)
COORDINATE LOCATION WITH OWNER. CONNECT TO 120V LIGHTING BRANCH CIRCUITS TO PROVIDE AUTOMATIC SHUT-OFF.
- DAY LIGHT SENSOR
- WALL MOUNTED OCCUPANCY/VACANCY SENSOR SWITCH
- WALL MOUNTED DIMMER SWITCH

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: DOMINO'S PIZZA
Project Type: Alteration

Construction Site: 3544 SW Market St
Lee's Summit, MO 64082
Owner/Agent: Designer/Contractor: AZ

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Food Preparation	1170	1.21	1416
Total Allowed Watts =			1416

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Food Preparation (1170 sq.ft.)				
LED 1: A1: 2X2: Other:	1	17	42	714
LED 2: AE: 2X2 NL: Other:	1	1	42	42
LED 3: B: CAN: Other:	1	4	17	68
LED 4: C: CAN: Other:	1	4	17	68
LED 5: CE: CAN NL: Other:	1	1	17	17
Total Proposed Watts =			909	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version 4.1.5.1
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

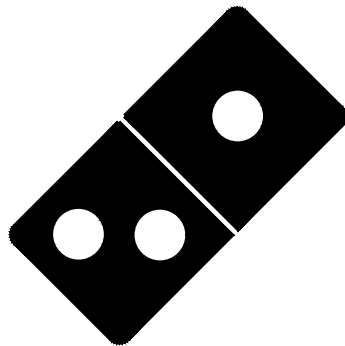
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V: 503.552.9079
F: 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

ELECTRICAL
LIGHTING PLAN

SDE-21058

SHEET NUMBER:

E2.0

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- GENERAL NOTES:
- A. PROVIDE DUAL ELEMENT FUSES AND SIZE PER EQUIPMENT NAMEPLATE.
- KEY NOTES:
- E = FURNISHED BY ELECT. CONTRACTOR
F = FUSED (300V = FRNR / 600V = FRSR)
B = BREAKER
I = INTEGRAL WITH UNIT
NF = NON-FUSED
Q = FURNISHED WITH EQUIP
N3R = NEMA-3R RATED
N1 = NEMA-1 RATED

GENERAL EQUIPMENT SCHEDULE										
CALLOUT	SYMBOL	DESCRIPTION	NEMA	VOLTS	AMPS	MCA	KVA	CALC. LOAD KVA	CIRCUIT	WIRE CALLOUT
AHU-1(E)		AIR HANDLER UNIT #1(E)		208V 2P 2W	4.15		0.86	1.08	A-6,8	3/4"C,2#12,#12G
AHU-2		AIR HANDLER #2		120V 1P 2W	13.8		1.66	2.07	B-22	3/4"C,1#12,#12N,#12G
AHU-3		AIR HANDLER #3		120V 1P 2W	13.8		1.66	2.07	B-24	3/4"C,1#12,#12N,#12G
CU-1(E)		CONDENSER UNIT #1(E)	NEMA 3R	208V 3P 3W	13.23	15.5	4.77	5.78	A-10,12,14	3/4"C,3#12,#12G
CU-2		CONDENSER UNIT #2	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-30,32	3/4"C,2#12,#12G
CU-3		CONDENSER UNIT #3	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-34,36	3/4"C,2#12,#12G
EF-1		EXHAUST FAN #1		120V 1P 2W	0.83		0.1	0.13	A-29	3/4"C,1#10,#10N,#10G
EFH-1		HOOD EXHAUST FAN	NEMA 3R	208V 3P 3W	2.54		0.91	1.14	B-37,39,41	3/4"C,3#12,#12G
HT & LIGHTS		HEAT TAPE & LIGHTS		120V 1P 2W	6		0.72	1	A-16	3/4"C,1#12,#12N,#12G
K10		MAKELINE LCP		120V 1P 2W	8.6		1.03	1	A-13	3/4"C,1#12,#12N,#12G
K12		DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-1	3/4"C,1#12,#12N,#12G
K12		DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-2	3/4"C,1#12,#12N,#12G
K20		SINGLE DOOR VISI-COOLER		120V 1P 2W	7.5		0.9	1.13	A-25	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-1	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-3	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-5	3/4"C,1#12,#12N,#12G
K27A		COOLER EVAP UNIT		120V 1P 2W	2		0.24	0.3	A-22	3/4"C,1#12,#12N,#12G
K27B		COOLER COND UNIT	NEMA 3R	208V 2P 2W	18.19		3.78	4.73	A-18,20	3/4"C,2#10,#10G

NOTE: ALL DISCONNECTS AND SWITCHES TO BE PROVIDED AND INSTALLED BY ELEC CONTRACTOR.

GENERAL KITCHEN NOTES

- FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
- THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL KITCHEN FOOD SERVICE AND RELATED EQUIPMENT.
- K# - INDICATES FOOD SERVICE EQUIPMENT IDENTIFICATION NUMBER. SEE KITCHEN SCHEDULE ON THIS SHEET.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN.
- PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ROUGH-IN REQUIREMENTS, LOCATIONS, ORIENTATION, VOLTAGE, PHASE, HP, KW, ETC. FOR ALL HVAC AND PLUMBING EQUIPMENT PRIOR TO ROUGH-IN.
- ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER I.E.C. 250.122. #12 MINIMUM GROUND. WIRE NOT SHOWN ON DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF KITCHEN EQUIPMENT SUPPLIER.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE PLUG CONFIGURATIONS FOR APPLICABLE KITCHEN EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE GFCI PROTECTION FOR ALL KITCHEN RECEPTACLES PER NEC 210.8(B).
- ALL RECEPTACLES IN PRODUCTION AREA LOW WALL SHALL BE MOUNTED HORIZONTALLY AT +6" BELOW LOW WALL CAP U.N.O.

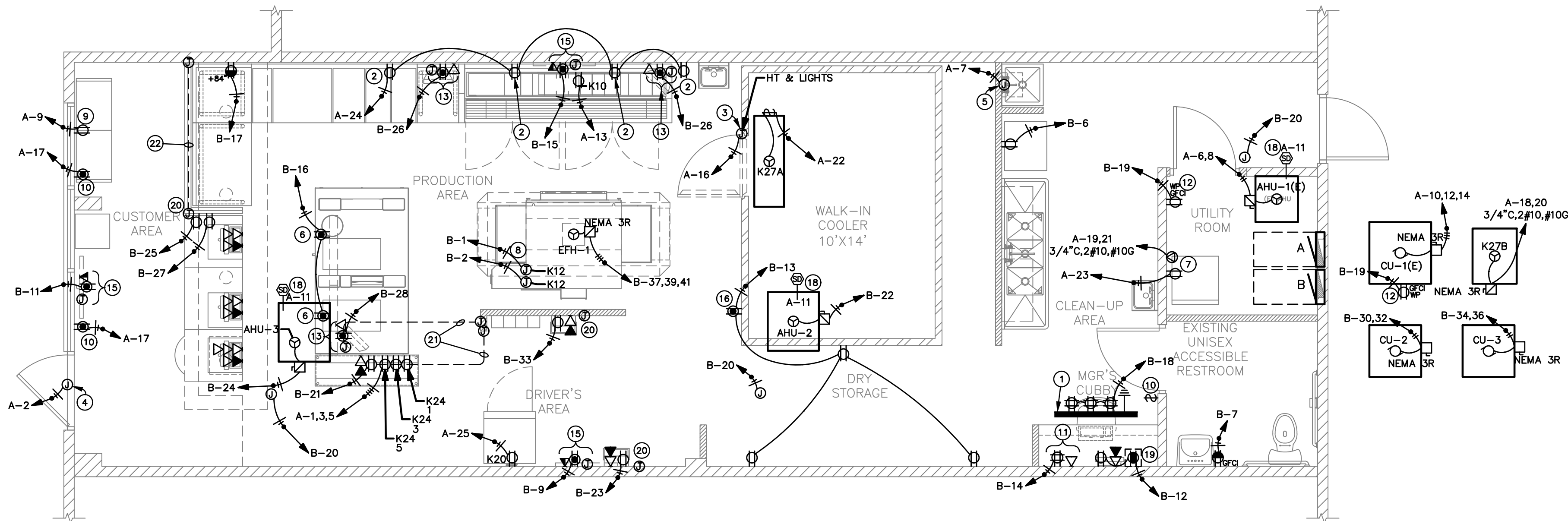
DATA ROUGHS ARE BY GC AND DATA CABLING BY DOMINO'S VENDER

KEYED NOTES

- PROVIDE A FIRE-TREATED 4"x4"x3/4" PLYWOOD WITH #6 CU. GND. FOR TELEPHONE/COMMUNICATIONS MOUNTING BOARD T.M.B. TO COMPLY WITH NEC 800.100(B). COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. PROVIDE 3/4" C. TO MAIN BUILDING TELEPHONE MOUNTING CABINET/BOARD. MOUNT ABOVE SUSPENDED CEILING WHERE SHOWN IN ACCESSIBLE CEILING SPACE.
- RECEPTACLE BEHIND MAKELINE AND PREP COUNTER RECOMMENDED TO BE MOUNTED AS HIGH AS POSSIBLE U.N.O. COORDINATE MOUNTING HEIGHTS & LOCATION WITH OWNER.
- J-BOX FOR CONNECTION TO WALK-IN COOLER DOOR HEAT TAPE AND LIGHTS. PROVIDE W.P. MANUAL SWITCH AND MAKE CONNECTION TO LIGHTS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH VENDOR.
- PROVIDE W.P. JUNCTION BOX FOR CONNECTION TO NEW TENANT SIGNAGE. VERIFY EXACT LOCATION IN FIELD AND WITH OWNER PRIOR TO ANY WORK. VERIFY ELECTRICAL REQUIREMENTS WITH SIGN SUPPLIER. CIRCUIT THRU TIME CLOCK, PROVIDED BY GC.
- PROVIDE JUNCTION BOX AND 20A RECEPTACLE FOR CONNECTION TO WATER HEATER IGNITER/CONTROLS/RECIRCULATION PUMP, AS APPLICABLE. COORDINATE EXACT LOCATIONS WITH PLUMBING CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH W/H SUPPLIER/INSTALLER.
- PROVIDE A CEILING MOUNTED RECEPTACLE FOR CONNECTION TO LED MENU BOARD. 800 WATTS MAX (EACH). VERIFY EXACT REQUIREMENTS WITH SUPPLIER AND THE LOCATION IN FIELD.
- 30A, 120/208V 1PH. RECEPTACLE FOR ELECTRIC STACKED SEPARATE CLOTHES WASHER/DRYER. VERIFY LOCATION, RECEPTACLE CONFIGURATION AND ELECTRICAL REQUIREMENTS WITH THE ARCHITECT AND MANUFACTURER. PROVIDE 3#10, 1#10 GND., IN 3/4" C. TO MEET NEC REQUIREMENTS.
- PROVIDE JUNCTION BOX FOR CONNECTION TO OVEN CONTROLLER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF CONTROLS WITH SUPPLIER.
- PROVIDE A TAMPER RESISTANT COMBINATION 15A, 120V RECEPTACLE AND A USB CHARGER DEVICE TO BE EQUAL TO ARROWMART TR7740W. MOUNT COMBO-OUTLETS HORIZONTALLY AT +38" AFF.
- SHOW-WINDOW RECEPTACLE. MOUNT FLUSH IN CEILING. PROVIDE 120V 20A SWITCH AT MANAGERS OFFICE FOR SHOW-WINDOW RECEPTACLES CONTROL. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE DATA OUTLET AND DUPLEX RECEPTACLE FOR SECURITY EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND/OR OWNER PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH INSTALLER OR OWNER.
- PROVIDE A WP/GFI RECEPTACLE WITHIN 25'-0" OF HVAC EQUIPMENT. MOUNT RECEPTACLE AT +18" ABOVE ROOF/GROUND AS APPROPRIATE TO MEET NEC.
- CONTRACTOR TO PROVIDE A DUPLEX RECEPTACLE AND DATA OUTLET AS SHOWN MOUNTED ABOVE CEILING.
- NOT USED.
- PROVIDE POLE/CEILING MOUNTED RECEPTACLE FOR PIZZA TRACKER OR TV.
- PROVIDE A 20A, 120V, DUPLEX RECEPTACLE IN CEILING FOR MAGNETIC CAR-TOPPERS ABV. VERIFY LOCATION AND ADDITIONAL REQUIREMENTS WITH OWNER.
- NOT USED.
- SMOKE DETECTOR MOUNT IN DUCT PER MECHANICAL CODE REQUIREMENTS. CONNECTIONS CALLED OUT ON MECHANICAL PLANS.
- PROVIDE USB/DUPLEX RECEPTACLE, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE JUNCTION BOX AND 1-1/4" E.C. (RECOMMENDED) WITH PULLSTRING FOR MONITOR CABLING BY OTHERS. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH SUPPLIER OR OWNER.
- CONDUIT UNDER GROUND.
- RUN CONDUIT THRU SHORT WALL TO FULL WALL.

LOW VOLTAGE SYSTEM NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A TELEPHONE MOUNTING BOARD (TMB), AS NOTED ON DRAWINGS AND 1-1/4" CONDUIT, WITH PULLWIRE, TMB, IN MANAGER OFFICE, TO ALL POINT OF SALE (POS) LOCATIONS, DRIVERS STATIONS AND OTHER LOCATIONS AS DIRECTED BY GENERAL CONTRACTOR (GC) AND/OR LOW VOLTAGE CONTRACTOR (LVC) FOR LOW VOLTAGE WIRING SYSTEM. ELECTRICAL CONTRACTOR SHALL MEET WITH GC AND LVC AND COORDINATE ALL REQUIREMENTS AND LOCATIONS FOR LOW VOLTAGE SYSTEM ROUGH-IN, INCLUDING TMB, CONDUITS AND J-BOXES FOR WIRING AND DEVICES PRIOR TO BEGINNING INSTALLATION.

NOTE:
CONTRACTOR SHALL NOT INSTALL CONDUIT OR J-BOXES IN FIRE-RATED WALLS UNLESS REQUIRED. IF REQUIRED ALL PENETRATIONS IN FIRE-RATED PARTITIONS BETWEEN TENANT SPACES SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 OF IBCB. DESIGN INFORMATION FOR APPROVED FIRE STOPPING SYSTEMS SHALL BE PROVIDED ON CONSTRUCTION DRAWINGS OR PROVIDED IN ADDENDUM TO SUCH DRAWINGS.

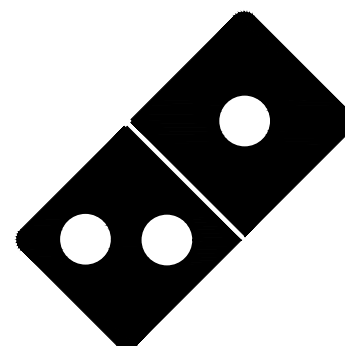


ELECTRICAL POWER PLAN

SCALE: 1/4"=1'-0"



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V: 503.552.9079
F: 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684
Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

ELECTRICAL
POWER PLAN

SDE-21058

SHEET NUMBER:

E3.0

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE																																		
DESIGNATION	MANUFACTURER	TONNAGE	SEER	SYSTEM TYPE	AIR CAPACITIES SECTION	BLOWER AIR FLOW (CFM)	O.A. AIRFLOW, MODEL OPERATING (CFM)	MIN. O.A. AIRFLOW (CFM)	ESP. (IN.WG)	O.A. TEMP. (DB)	E.A.T. (°WB)	E.A.T. (°WB)	TOTAL COOL. CAP. (MBH)	SEV. COOL. CAP. (MBH)	LAT. COOL. CAP. (MBH)	CONDENSER SECTION	CONDENSING MODEL NUMBER	CONDENSER FSP (HP)	CONDENSER FAN FLA (AMPS)	COMPRESSOR FLA (AMPS)	NCA (AMPS)	MOOP. MW/MAX (AMPS)	CONDENSER ELECTRIC SERVICE	CONDENSER WEIGHT (LBS)	AIR HANDLER SECTION	MODEL NUMBER	AHU FAN FLA (AMPS)	AHU FAN (HP)	AHU WEIGHT (LBS)	FILTERS	HEAT/SOURCE	HEATER EFFICIENCY	AIR HANDLING UNIT ELECTRIC SERVICE	ACCESSORIES
AHU-1 (E) CU-1 (E)	CARRIER	3.0	—	HEAT PUMP		1200	305	75	0.8	100	82.0	67.0	—	—	—		38YCC036	1/4	—	11.3-78	15.5	20	208/3/60	—		FA4ANF036	2.4	⅓	—	2" THICK MERV 8	36MBH/HEAT PUMP	—	208/1/60	—
AHU-2,3 CU-2,3	RHEEM	3.0	14.0	ELECTRIC / GAS		1200	305	75	0.8	100	82.0	67.0	36.0	27.0	9.0		RA1436A	—	—	14.1	19	30	208/1/60	262		R92PA060/RCF36	4.6	¾	159	2" THICK MERV 8	60MBH/N.GAS	92%	120/1/60	NOTES 1,2&3
NOTES: 1. UPFLOW FURNACE CONFIGURATION, EXTERNAL BOTTOM FILTER RACK 2. SINGLE STAGE COOLING, CRANKCASE HEATER, LOW AMBIENT CONTROL., HIGH & LOW PRESSURE CONTROL, COMPRESSOR TIME DELAY, HARD START KIT AND 2½" PROGRAMMABLE T'STAT. F&I ACR REFRIGERANT PIPING. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET THE ACTUAL INSTALLATION CONDITIONS. 3. F&I 3 POSITION MOTORIZED DAMPERS ON O.A. INTAKE DUCT.																																		

HVAC ITEMS LEGEND	
SYMBOL	DESCRIPTION
	DUCT (SIZE IS CLEAR INSIDE DIMENSION)
	RETURN DUCT (SIZE IS CLEAR INSIDE DIMENSION)
	SQUARE ELBOW WITH TURNING VANES
	AIR EXTRACTOR W/ VOLUME DAMPER (V.D.)
	DUCT TRANSITION
	INTERNALLY LINED DUCT
	HIDDEN DUCT
	RETURN AIR GRILLE
	CEILING DIFFUSER (4-W THROW UNLESS DIRECTION ARROWS SHOWN)
	FLEXIBLE DUCT WORK
	DOOR UNDERCUT
	SUPPLY REGISTER
	WALL CAP
	EXHAUST FAN
	FIRE DAMPER
	DUCT SMOKE DETECTOR
	MANUAL VOLUME DAMPER (MVD)
	MOTORIZED DAMPER
	HUMIDITY SENSOR
	THERMOSTAT
	TEMPERATURE SENSOR
	AIR FLOW DIRECTION
	SUPPLY AIR DUCT UP / DOWN
	SUPPLY AIR DUCT UP / DOWN
	RETURN AIR DUCT UP / DOWN
	EXHAUST AIR DUCT UP / DOWN

SELECTED EQUIPMENT IN THESE DRAWINGS CAN BE SUBSTITUTED WITH EQUIPMENT OF EQUAL PERFORMANCE FROM ANOTHER MANUFACTURER THAT IS PREFERRED BY OWNER/MECHANICAL CONTRACTOR.

ABBREVIATIONS	
ABBREV.	DESCRIPTION
A/C	ABOVE CEILING
A/G	ABOVE GRADE
ACD	CONDENSATE DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
B/F	BELOW FLOOR
B/G	BELOW GRADE
BHP	BRAKE HORSE POWER
CFM	CUBIC FEET / MINUTE
CONN	CONNECT/CONNECTION
CU	CUBIC
CW	DOMESTIC COLD WATER
EA	EXHAUST AIR
EXH	EXHAUST
F&I	FURNISH AND INSTALL
FF	FINISHED FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
IN	INCHES
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
RA	RETURN AIR
RPM	REVOLUTIONS/MINUTE
SA	SUPPLY AIR
SQ	SQUARE
T'STAT	THERMOSTAT
UC	UNDERCUT DOOR
UON	UNLESS OTHERWISE NOTED
WG	WATER GAUGE

REFRIGERATION EQUIPMENT SCHEDULE		
DESIGNATION	WICF-1	WICC-1
APPLICATION	WALK-IN COOLER FAN COIL	WALK-IN COOLER CONDENSING UNIT
MANUFACTURER	KOLPAK	KOLPAK
MODEL	FAN COIL FOR A 10'X14' WALK-IN	CONDENSING UNIT FOR A 10'X14' WALK-IN
REFRIGERANT	---	404A
COMMENTS	NOTE 1	NOTE 2
NOTE: 1. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS 2. F&I W/ACR REFRIGERANT PIPING, ALL VALVES, APPURTENANCES AND EQUIPMENT REQUIRED FOR COMPLETE SYSTEM. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET ACTUAL INSTALLATION CONDITIONS.		

RESTAURANT AIR BALANCING SCHEDULE			
EXHAUST UNIT	EXHAUST AIR FLOW (CFM)	PROVIDED BY	O.A. AIR FLOW (CFM)
EFH-1	830	AHU-1,2&3	AHU-1: 305 AHU-2: 305 AHU-3: 305
*EF-1	85	—	—
EXFILTRATION	—	—	—
TOTAL EXHAUST	915	TOTAL O.A.	915
*FANS TO BE OPERATING ON AN INTERMITTENT BASIS			

KITCHEN EXH AIR CALCULATIONS				
AREA	SQFT	CFM/SQFT	TOTAL CFM	PROVIDED BY
KITCHEN	472	0.7	330.4	EFH-1

O.A. CALCULATIONS								
AREA	OCCUPANCY	CFM/PERSON	SUBTOTAL	SQUARE FEET	CFM/SQ.FT	SUBTOTAL	TOTAL CFM	PROVIDED BY
LOBBY	2	7.5	15.0	106	0.18	19.1	34.1	AHU-1,2&3
STORAGE	2	0.0	0.0	591	0.12	70.9	70.9	AHU-1,2&3
PRODUCTION	3	7.5	22.5	472	0.18	85.0	107.5	AHU-1,2&3
TOTAL							212	

AIR DISTRIBUTION DEVICES					
DESIGNATION	"SD-1"	"SD-3"	—	"RG-1"	"RG-2"
DESCRIPTION	PERFORATED CEILING DIFFUSER	LOUVER CEILING DIFFUSER	—	PERFORATED CEILING INLET	LOUVERED GRILLE
APPLICATION	SUPPLY	SUPPLY	—	RETURN / EXHAUST	RETURN
DESIGN MFG.	TITUS	TITUS	—	TITUS	TITUS
MODEL NO	PAS-AA	TMS-AA	—	PAR-AA	350FL
ACCESSORIES	OBD	OBD	—	—	—
NOTES	NOTES 3,6&7	NOTES 1&3	—	NOTES 2,3,5&8	24X12

NOTES:
1. ADJUSTABLE CORE DIFFUSER WITH ROUND NECK.
2. BORDER FOR A 24X24 LAY-IN CEILING GRID.
3. F&I WITH R-6 MOLDED INSULATION BLANKET.
4. DOUBLE DEFLECTION GRILLE, DUCT MOUNTED (NO CEILING).
5. DOUBLE END CAPS TO MATCH DUCT SIZE. MOUNT GRILLE AT 45° ANGLE BELOW HORIZONTAL. ADJUST BLADES FOR PROPER AIR DISTRIBUTION.
6. PERFORATED FACE RETURN/EXHAUST INLET. ROUND NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24X24 LAY-IN CEILING GRID. SELECT BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID.
7. PERFORATED FACE DIFFUSER, ADJUSTABLE DISCHARGE PATTERN, ROUND NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24X24 LAY-IN CEILING GRID. SELECTED BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID. UNLESS OTHERWISE INDICATED BY THROW DIRECTION ARROWS, UNIT TO BE 4-WAY DISTRIBUTION PATTERN.
8. W/TYPE 3 FRAME BORDER FOR 24x24 CEILING GRID.
9. F&I W/OPPOSED BLADE DAMPER.

GENERAL NOTES:

- DOOR UNDERCUTS TO PROVIDE A 0.75" CLEAR OPENING.
- MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
- DUCTWORK AND EQUIP. SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENT. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHT OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOB SITE.
- SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILING IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
- COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRE, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS: THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL: BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E 814 OR NFPA 251 FOR FIRE RATING.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPING LOCATIONS IN FIELD AND INCLUDE IN BID EXTENDING TO EXISTING AS REQUIRED. CONTRACTOR MAY REUSE ALL EXISTING DUCT IF CLEANED AND COMPLY WITH SPECS.
- CONTRACTOR SHALL BALANCE ALL SYSTEMS. F&I 3RD PARTY OR LICENSED HVAC CONTRACTOR INSPECTION AND FURNISH COPY OF THE REPORT TO THE CITY INSPECTOR.
- PLANS SHALL CONFORM TO THE THE CURRENT CODE AND LOCAL AMENDMENTS.
- ALL DIFFUSERS AND GRILLES ARE LESS THAN 20 LBS, CONTRACTOR SHALL POSITIVELY ATTACH TO CEILING MAIN RUNNERS.
- VENTS SHALL BE TERMINATED A MIN OF 1'-0" ABOVE ROOF AND 2'-0" ABOVE 8'-0" AWAY FROM PARAPETS OR WALLS.
- THERMOSTATS ARE LOW VOLTAGE PROGRAMMABLE THERMOSTATS AND ARE TO BE LOCATED AS SHOWN.
- IF THERE IS NO PARAPET, THE PARAPET IS LESS THAN 42" ABOVE ROOF SURFACE OR A DIFFERENCE IN WALKING SURFACE ELEVATION OF 3'-0", THE UNITS PLACED WITHIN 10'-0" OF EDGE OF ROOF, SHALL HAVE RAILINGS OR TIE-OFFS MEETING OSHA REQUIREMENTS.
- RUN-OUTS TO DUCTS TO AIR DISTRIBUTION DEVICES SHALL BE SIZED THE SAME AS THE CONNECTION TO THE AIR DISTRIBUTION DEVICE, UNLESS OTHERWISE NOTED.
- INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL. (TYP)
- F&I EQUIPMENT REQUIRING AN EXTERNAL SOURCE OF ELECTRICAL POWER FOR ITS OPERATION SHALL BE HAVE THE FOLLOWING:
 - READILY ACCESSIBLE DISCONNECTING MEANS WITHIN SIGHT OF THE EQUIPMENT.
 - 120 VAC GROUNDING-TYPE RECEPTACLE OUTLET ON THE ROOF ADJACENT TO WITHIN 25 FEET OF EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS NEC 210.63.
- WHERE MORE THAN ONE HVAC UNIT IS INSTALLED ON THE ROOF OF, OR WITHIN A BUILDING, IT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT.
- FURNISH O&M MANUALS FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- COMMISSIONING PLAN TO BE DEVELOPED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- HVAC EQUIPMENT TO BE TESTED TO ENSURE PROPER OPERATION.
- PRELIMINARY COMMISSIONING REPORT TO BE COMPLETED AND CERTIFIED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- AS-BUILT HVAC SYSTEMS DRAWINGS TO BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- PROVIDE AN AIR BALANCE REPORT FOR SYSTEMS TO THE OWNER.
- FINAL COMMISSIONING REPORT DUE TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF OCCUPANCY.
- HVAC SYSTEM CONTROLS TO BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT AND OPERATION.
- FLASH AND COUNTERFLASH ALL PIPES, CONDUITS, DUCTS AND FLUES THROUGH ROOF AND / OR EXTERIOR WALLS. MAKE PENETRATIONS WATERTIGHT.
- MAKE-UP AIR FOR EFH-1 TO BE SUPPLIED BY RTUS UON. IF AN OVEN HOOD MAKE, MODEL OR OVEN CONFIGURATION IS CHANGED FROM THAT WHICH IS SHOWN ON THE MECHANICAL & ARCHITECTURAL DRAWINGS, THE AIR BALANCE SCHEDULE IS VOIDED AND SUFFICIENT AIR BALANCE IS NOT GUARANTEED. IN THE CASE OF A CHANGE IN FIELD, CONTRACTOR TO VERIFY MAKE-UP AIR REQUIREMENTS WILL BE MET.

VENTILATION FAN SCHEDULE				
DESIGNATION	EFH-1	EF-1	—	—
APPLICATION	KITCHEN FAN EXHAUST	RESTROOM EXHAUST FAN	—	—
MANUFACTURER	ACME	GREENHECK	—	—
MODEL	PDU135RG	SP-B90	—	—
AIR FLOW (CFM)	830	85	—	—
FAN SPEED (RPM)	—	700	—	—
EXT. STATIC PRESSURE	1"	0.125"	—	—
MOTOR (HP OR WATTS)	⅓	21.1W	—	—
ELECTRICAL	208/3/60	120/1/60	—	—
WEIGHT	130	35	—	—
COMMENTS	NOTES 1,2,3,4,6,7,8	NOTE 5	—	—

NOTES:
1. F&I 20" HINGED CURB. UNIT TO HAVE GRAVITY BACKDRAFT DAMPER, GALV. INSECT SCREEN ON DISCHARGE SIDE OF DAMPER AND VENTILATOR INLET TO BE FLANGED FOR DUCT CONN.
2. INTERLOCK AHU-1, 2 & 3 AND EFH-1 FOR SYNCHRONIZED OPERATION.
3. CONTROL TO CLOSE DAMPERS WHEN UNIT IS OFF AND OPEN WHEN THE UNIT RUNS.
4. DAMPER SHALL BE NORMALLY CLOSED WITH 24V ACTUATOR SUITABLE FOR INTERCONNECTION WITH AC CONTROL WIRING.
5. F&I W/MFR SUPPLIED SPEED CONTROL TO BALANCE FAN.
6. SPEED SWITCH TO BE IN SECURED PANEL ADJACENT TO FAN ABOVE CEILING. FANS TO BE CONTROLLED BY OCCUPANCY SENSORS COMBINED W/5 MIN (ADJ) TIME DELAY TO SHUT OFF FAN.
7. F&I MOTORIZED DAMPER ON OUTSIDE AIR & MAKE-UP AIR INTAKE DUCTS.
8. ROOF OPENING 14.5"X14.5".
9. VFD DRIVE.

TYPE II KITCHEN HOOD SCHEDULE												
DESIGNATION	MANUFACTURER	MODEL	SUPPLY AIR (CFM)	MAKE-UP AIR DUCT CONN. (IN)	MAKE-UP AIR DUCT CONN. (IN)	EXHAUST AIR FLOW (CFM)	EXHAUST DUCT CONN. WITH (IN)	EXHAUST DUCT CONN. DEPTH (IN)	EXHAUST DUCT CONN. DEPTH (IN)	HOOD PRESS. (IN. W.C.)	VELOCITY AT DUCT (FT/MIN)	WEIGHT (LBS)
KH-1	AVI	3255	---	---	---	830	12	12	12	1"	830	750
NOTES: 1. REFER TO HOOD MANUFACTURER'S CUT-SHEETS FOR REQUIRED FOOD INFORMATION. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CURRENT CODE HAVING JURISDICTION.. 2. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION. 3. SUPPORT: HOOD SHALL BE SECURED IN PLACE BY SUPPORTS. ALL HOOD SUPPORTS SHALL BE ADEQUATE FOR THE APPLIED LOAD OF THE HOOD, THE UNSUPPORTED DUCTWORK AND THE POSSIBLE WEIGHT OF PERSONNEL WORKING IN OR ON THE HOOD. 4. CLEARANCES: MAINTAIN CLEARANCES AS PER HOOD MANUFACTURER'S RECOMMENDATIONS AND AS PER CODE STANDARDS.												

FIELD VERIFICATION NOTES:

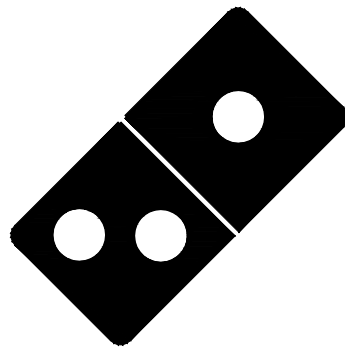
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. FIELD VERIFICATION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING
 - EXACT PLACEMENT, DIMENSIONS, CONDITIONS, CAPACITIES MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIP. WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
 - SIZE, CONDITION AND LOCATIONS OF ALL EXISTING DUCTWORK.
 - SIZE, CONDITIONS AND LOCATIONS OF ALL EXISTING AIR DISTRIBUTION DEVICES, GRILLES, REGISTERS, DIFFUSERS, DAMPERS, ETC.
 - CONDITIONS AND LOCATION OF ALL EXISTING ENVIRONMENTAL AND AUTOMATED CONTROLS.
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ITEMS PRIOR TO SUBMITTAL OF BID AND INCLUDE IN THE BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES OR MODIFICATIONS TO THE CONTRACTOR'S BID OR BID CONDITIONS, DUE TO FAILURE OF ACCURATELY VERIFYING EXISTING CONDITIONS, AFTER THE PROJECT HAS BEEN AWARDED.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE ARCHITECT FOR DIRECTION AS SOON AS THEY ARE DISCOVERED.

REFRIGERANT PIPING NOTES:

- ONLY ACR RATED COPPER PIPE TO BE USED.
- IF SHUT-OFF VALVES (SOV) ARE NOT INSTALLED ON THE EQUIPMENT BY THE MANUFACTURER, INSTALL SOV ON EACH EQUIPMENT CONNECTION.
- INSTALL ADDITIONAL TX VALVE AS RECOMMENDED BY THE MANUFACTURER FOR THE LENGTH OF PIPING RUN.
- USE LONG RADIUS ELBOWS AND FITTINGS.
- ALL AHU UNIT TO HAVE AN INVERTED TRAP ON SUCTION LINE.
- F&I FILTER/DRYER NEXT TO THE CU ON THE LIQUID LINE. THE FILTER/DRYER TO BE FOLLOWED BY A SIGHTGLASS WITH MOISTURE INDICATOR. F&I SOV IMMEDIATELY DOWNSTREAM OF EACH SIGHTGLASS.
- ALL SUCTION AND HOT GAS BY-PASS LINES TO BE INSULATED.
- F&I CONDENSING UNITS WITH LOW AMBIENT TEMPERATURE PROTECTION SUCH AS CONDENSER FLOOD BACK, CONDENSER FAN SPEED CONTROL OR CONDENSER FAN CYCLING.
- FULLY CHARGE LINES AT THE END OF INSTALLATION, PRIOR TO SYSTEM START-UP.
- ADD ADDITIONAL OIL TO EACH SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM'S PIPE SIZES AND LENGTH.
- PIPE MINIMUM BENDING RADIUS PER MANUFACTURER'S RECOMMENDATIONS, BUT IN NO CASE LESS THAN 4'.
- ADD ADDITIONAL REFRIGERANT AS RECOMMENDED BY THE MANUFACTURER OF EACH UNIT.



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V: 503.552.9079
F: 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:

MECHANICAL
SCHEDULES,
CALCULATIONS
AND LEGEND

SHEET NUMBER:

M1.0

PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERRED TO BY THESE DOCUMENTS ARE TO BE CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS M1.0, P1.0, P4.0 AND ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

UNLESS OTHERWISE NOTED, FLASH AND COUNTER FLASH ALL DUCTS, EQUIPMENT CURBS, ETC. PENETRATING THE ROOF/EXTERIOR WALLS, MAKE WATERTIGHT.

▷ DOES NOT DENOTE AIRFLOW DIRECTION.
DENOTES DIRECTION IN WHICH DUCT CROSS SECTIONAL AREA DECREASES.

UNLESS OTHERWISE NOTED, DUCTS TO BE SIZED THE SAME AS THE AIR DISTRIBUTION DEVICE CONNECTED TO THEM.

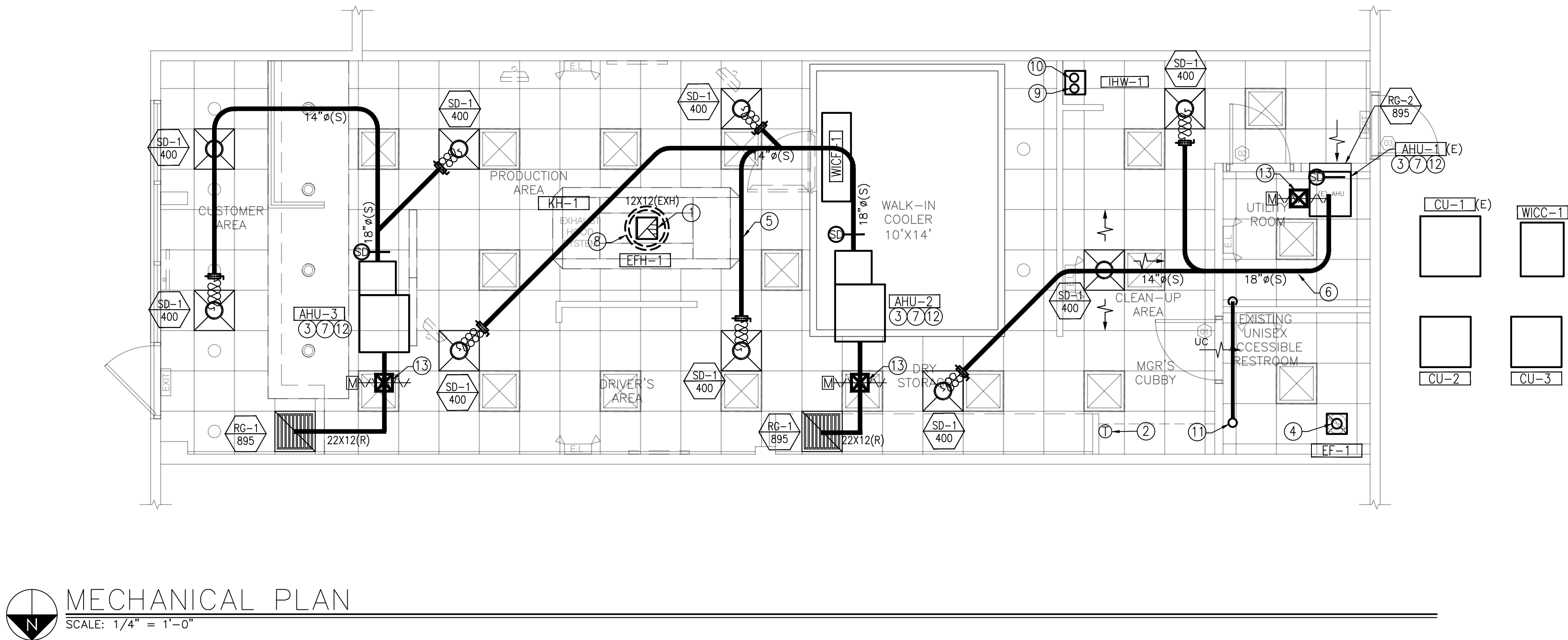
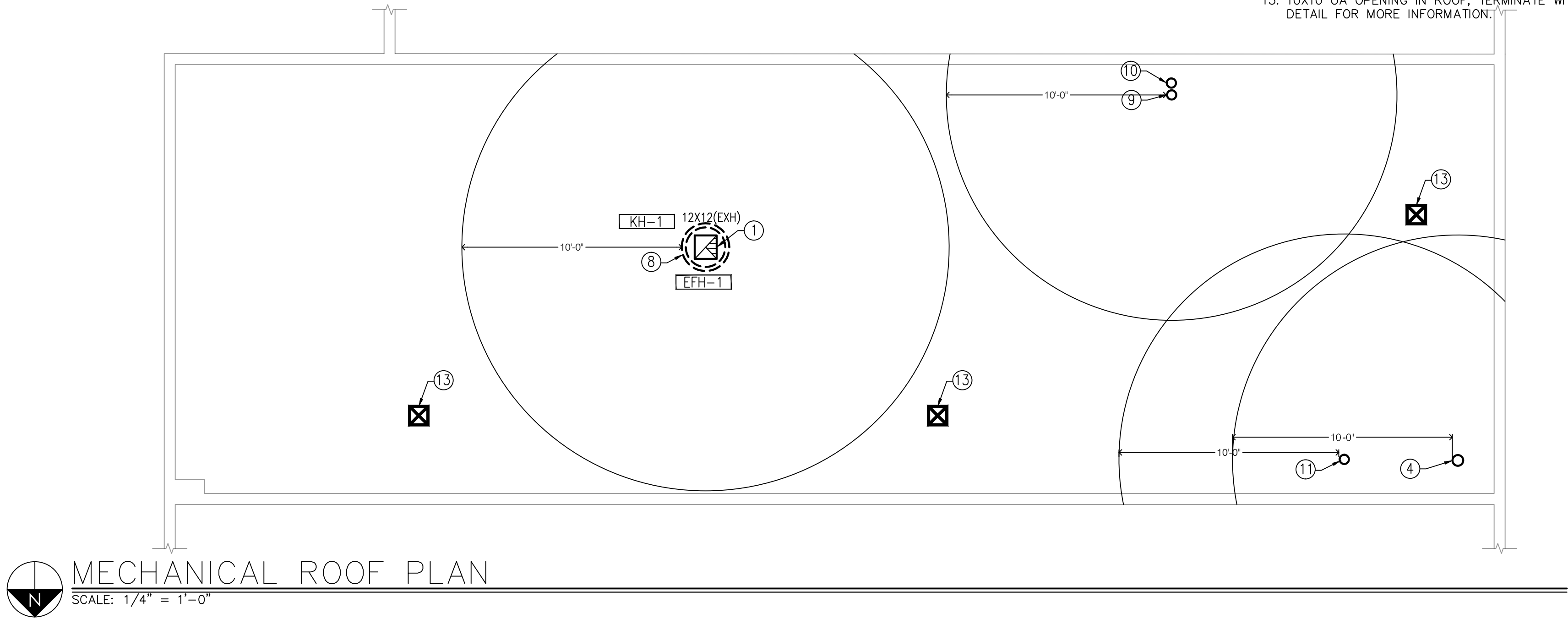
DUCT RUN-OUT SCHEDULE	
DUCT CFM	DUCT SIZE
0-150	6" ROUND
150-270	8" ROUND
270-330	10" ROUND
330-470	12" ROUND
470-530	14" ROUND
530-690	16" ROUND

NOTES:
1. AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.
2. RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.
3. RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.

RETURN AIR DEVICE NECK SIZE	
NECK SIZE	CFM
6X6	0-100
8X8	100-200
10X10	200-400
12X12	400-650
15X15	650-1050
18X18	1050-1350
22X22	1350-2000

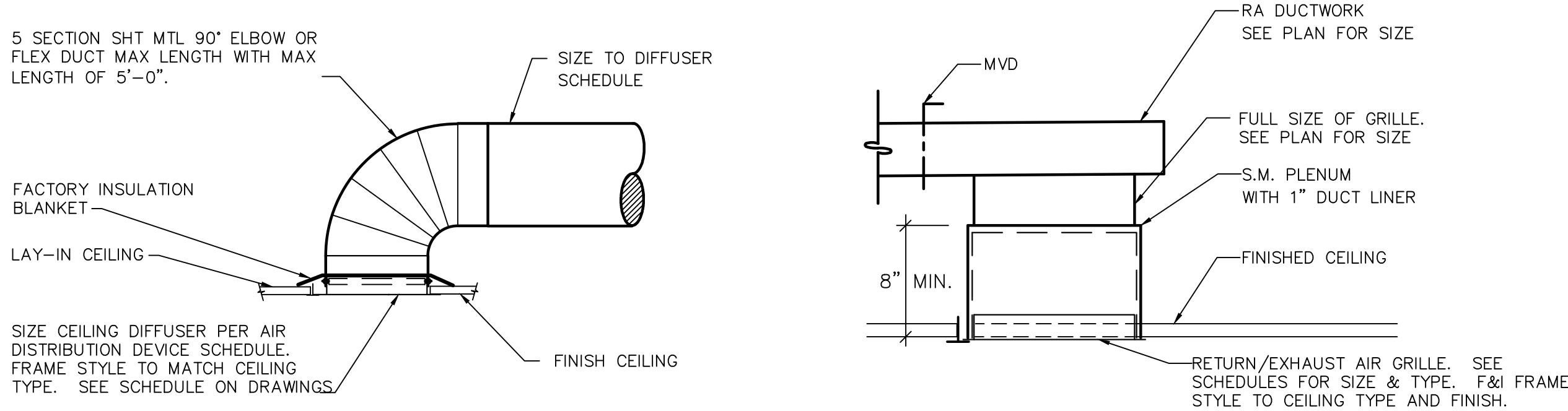
HVAC KEYED NOTES:

- DUCTWRAP TO BE F&I FOR DUCTWORK CONNECTED TO EXTERIOR EXHAUST FAN AS PER ASTM-E2336. RISER TO REDUCE AT FAN CONNECTION AS REQUIRED TO FIT DUCTWRAP. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- T'STAT FOR UNITS AHU-1, 2 & 3 WITH 24 HR, 7 DAYS PROGRAMMABLE THERMOSTATS AND 5 DEGREE DEADBAND TO BE INSTALLED AT 48" ABOVE THE FLOOR.
- TEMPERATURE SENSORS TO BE INSTALLED IN COMBINED RETURN/OUTSIDE AIR INTAKE.
- 6"Ø EXHAUST DUCT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- BRANCHES TO BE FLEX DUCT OR RIGID DUCT (TYP). FLEX DUCT RUNS NOT TO EXCEED 5'.
- INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL (TYP).
- DUCT RISER TO BE FULL SIZE OF UNIT'S DUCT CONNECTION.
- OUTLINE OF EQUIPMENT ON ROOF.
- RUN FLUE VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MANUFACTURER'S CONCENTRIC ROOF JACK FOR FLUE VENT/COMBUSTION AIR IS ACCEPTABLE. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- RUN COMBUSTION AIR VENT UP THRU ROOF. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- RUN DRYER VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- F&I SMOKE DETECTOR INDICATOR LIGHT ON UNIT. LABEL INDICATOR LIGHT. (TYP.)
- 10X10 OA OPENING IN ROOF, TERMINATE WITH GOOSENECK. SEE OA INTAKE DETAIL FOR MORE INFORMATION.



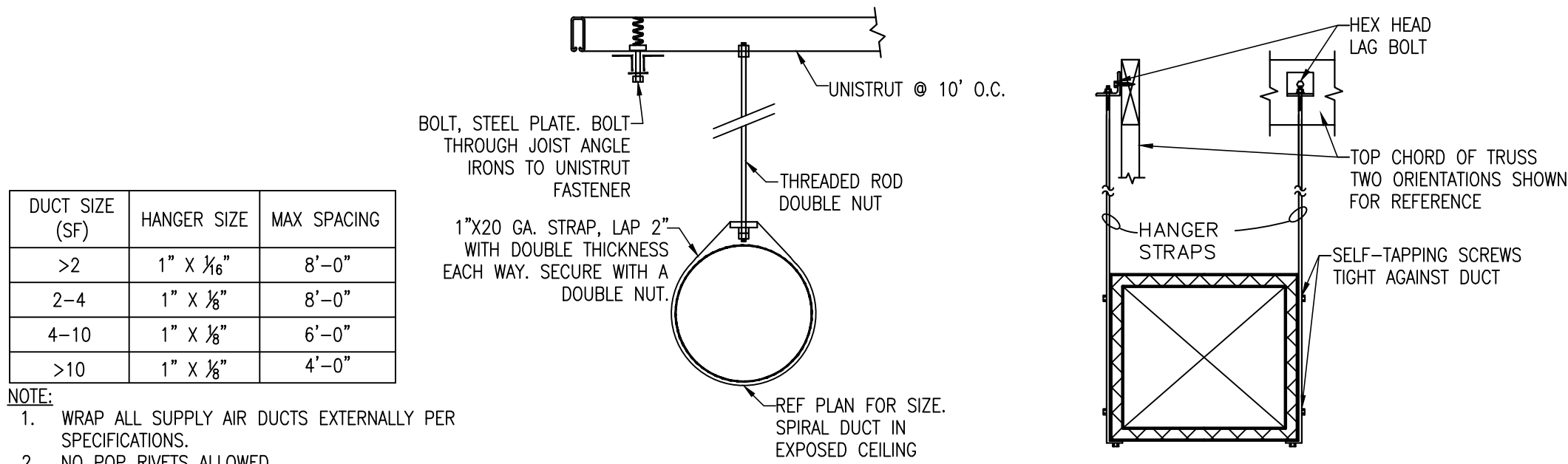
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THE DETAILS ON THIS SHEET ARE STANDARD DETAILS. NOT ALL DETAILS MAY BE RELEVANT TO THIS PROJECT.

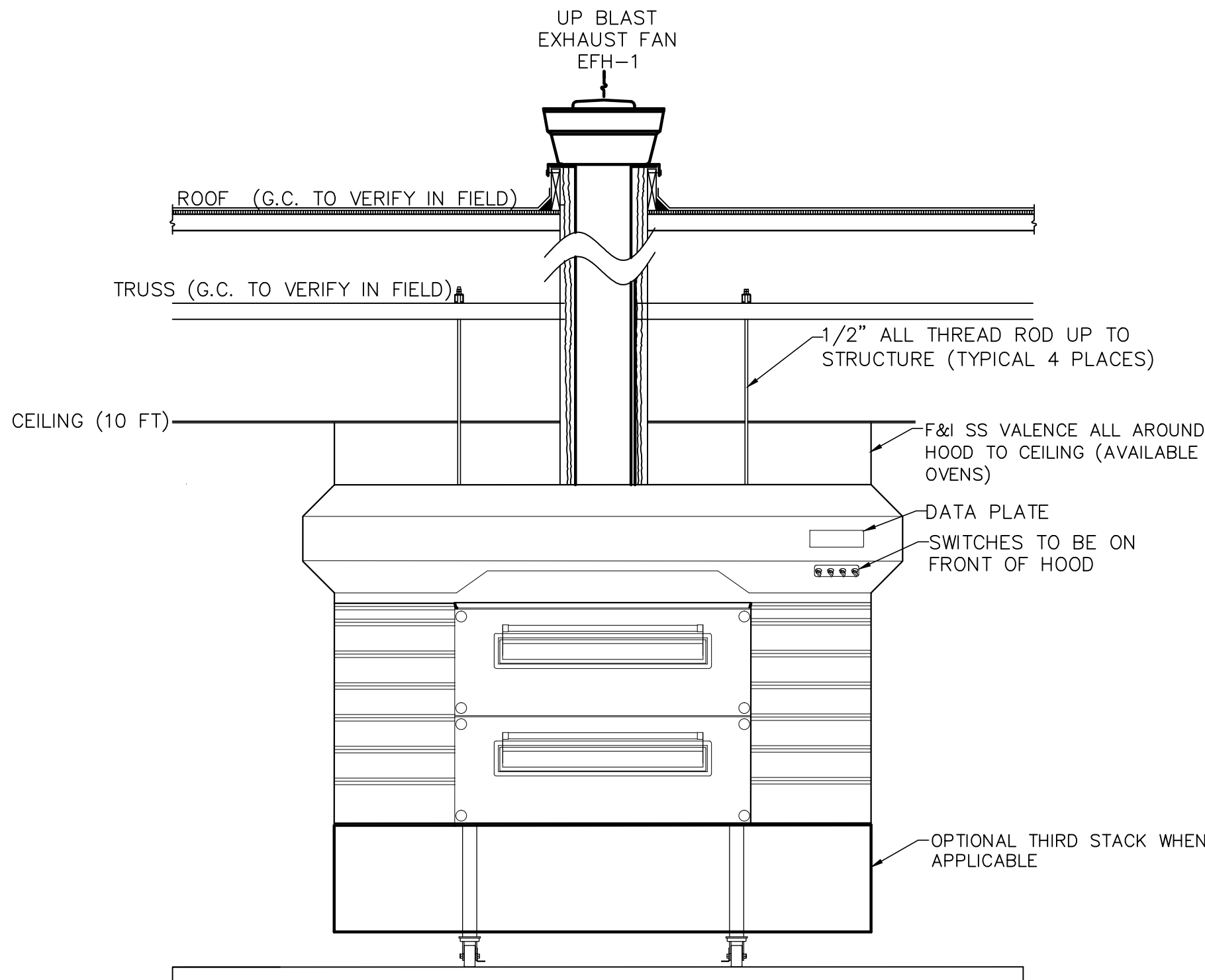


DIFFUSER INSTALLATION DETAIL
NO SCALE

RETURN/EXHAUST AIR GRILLE DETAIL
NO SCALE

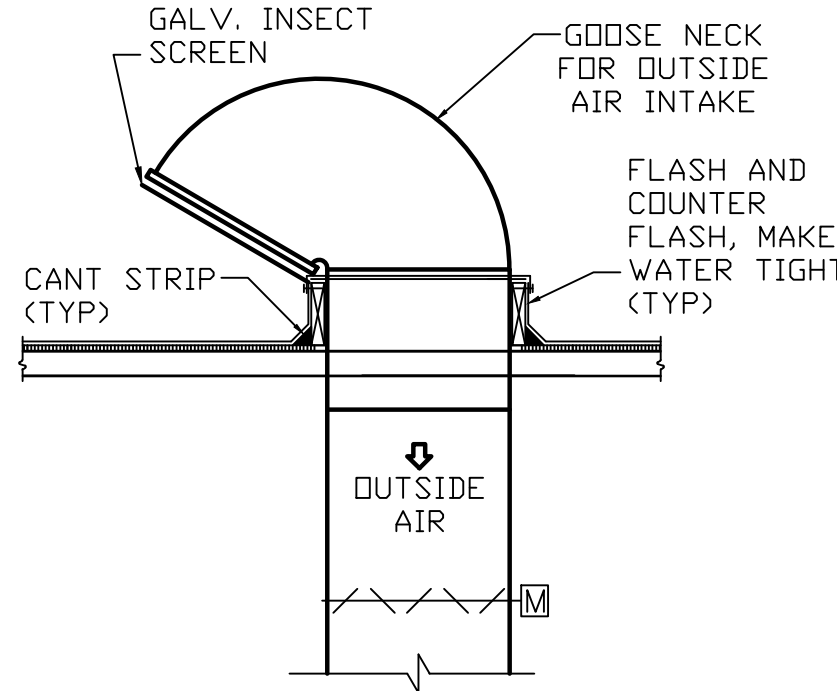


DUCT HANGER DETAIL
NO SCALE

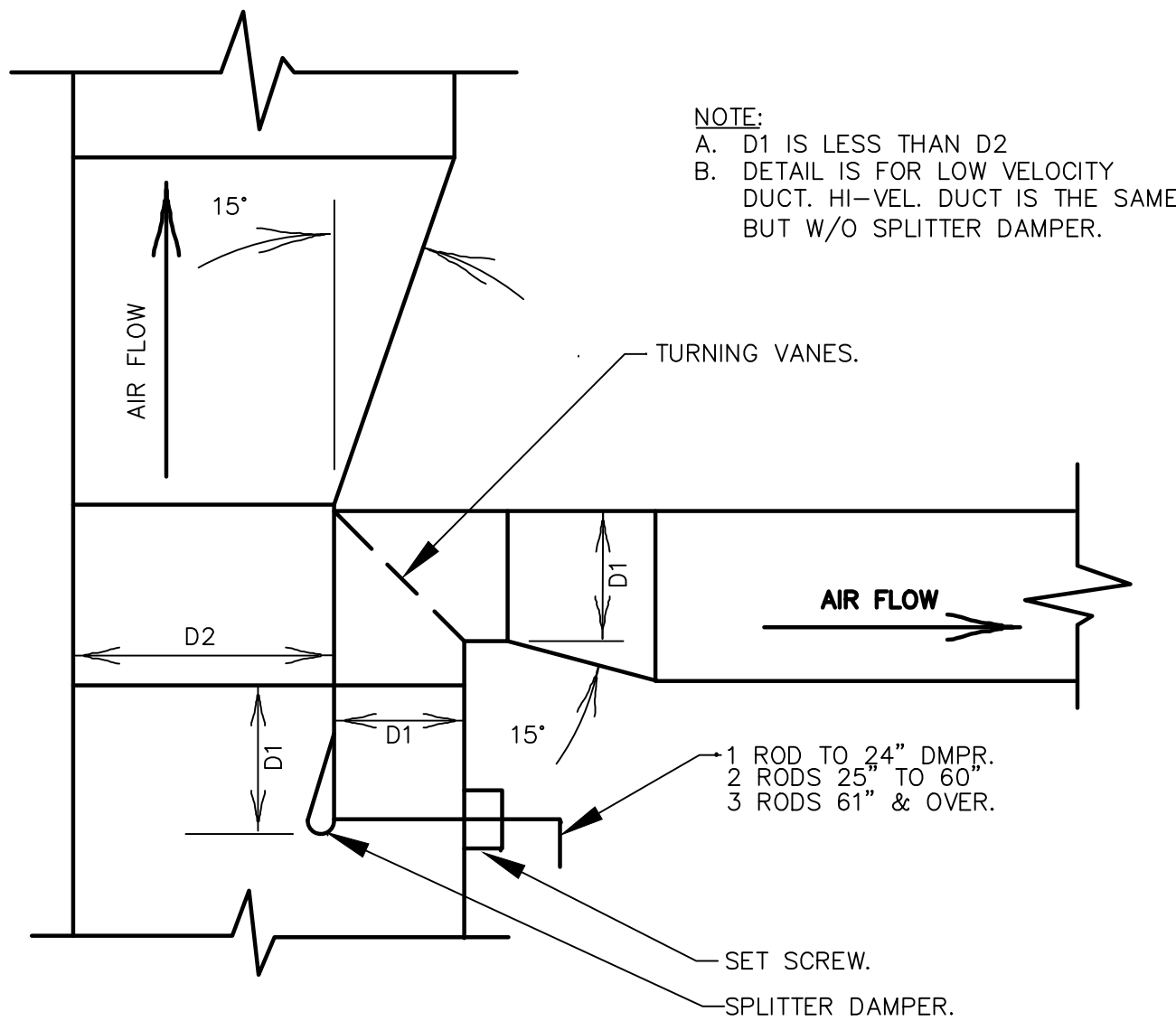


NOTE:
DETAIL IS DIAGRAMMATIC AND DOES NOT DENOTE THE NUMBER OF OVENS. SEE RCHITECTURAL PLANS FOR NUMBER OF OVENS.

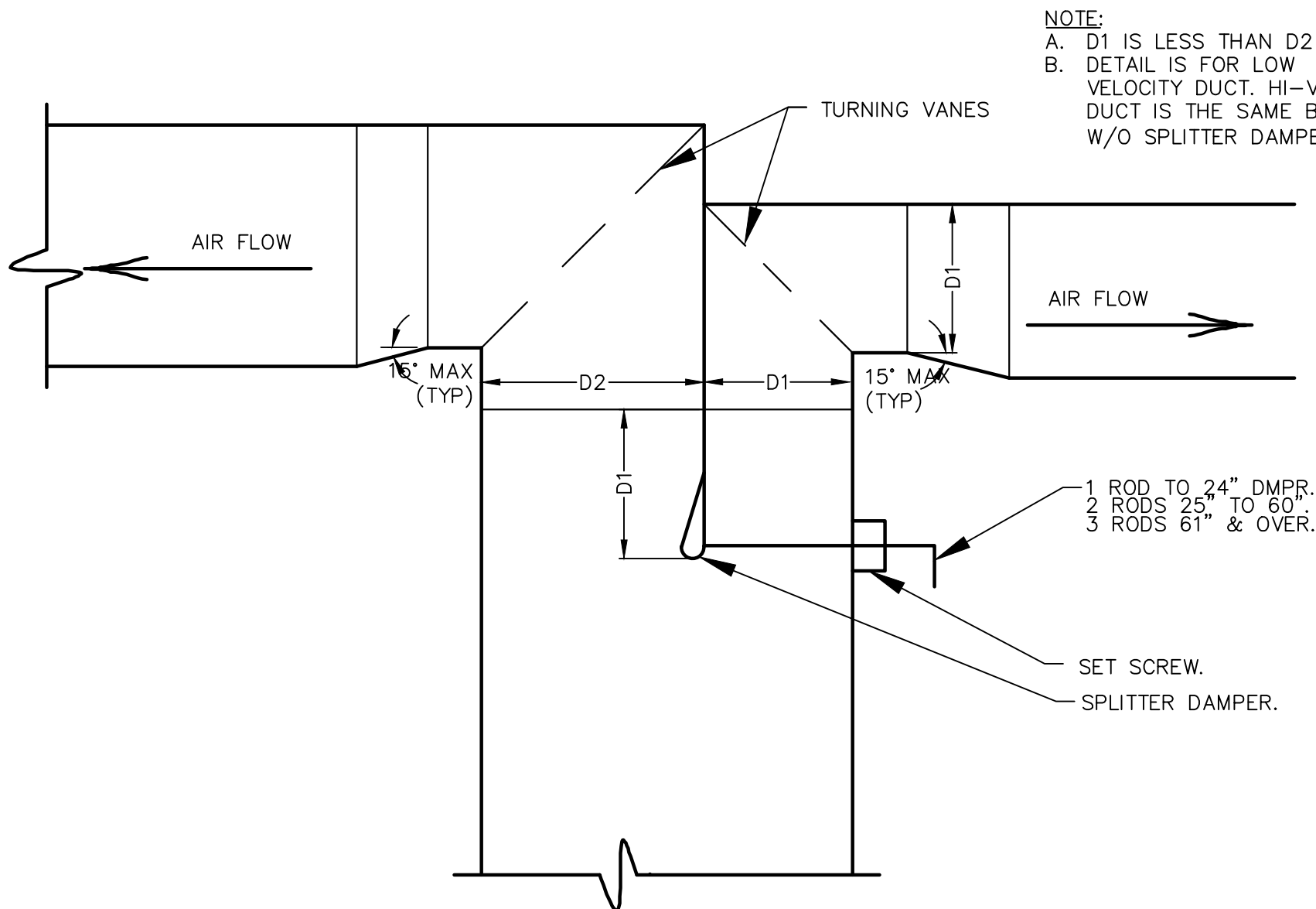
HOOD CLEARANCES AND DUCTS DETAIL
NO SCALE



AHU O.A. INTAKE DETAIL
NO SCALE



TYPICAL MAIN DUCT SPLITTER DAMPER TAKE-OFF DETAIL (SIMILAR FOR ROUND DUCTS)
NO SCALE



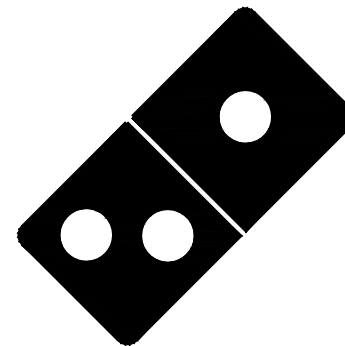
TYPICAL DUCT SPLITTER DAMPER DETAIL (SIMILAR FOR ROUND DUCTS)
NO SCALE

TYPE II HOOD SEQUENCE OF OPERATIONS

- AIR CONDITIONING UNITS (ACU)
 - ALL AIR CONDITIONING UNITS, ROOF TOP (RTU), AND SPLIT SYSTEM CONDENSER UNITS (CU) AND AIR HANDLING UNITS (AHU), SHALL BE CONTROLLED BY A PROGRAMMABLE 24/7 SMART THERMOSTAT DEVICE.
 - DEVICE TO HAVE A 100 F (ADJ) DEADBAND, PROGRAMMABLE START AND STOP TIMES, 3-POSITION ON/OFF/AUTO SELECTOR SWITCH AND A 2 HOUR MANUAL OVERRIDE.
- SUPPLY FANS (RTU & AHU)
 - EACH UNIT'S SUPPLY AIR FANS ARE ENERGIZED AND THE OUTSIDE AIR (OA) DAMPERS MODULATE TO POSITION TO ADEQUATELY PRESSURIZE BUILDING.
 - UNIT'S TEMPERATURE SENSOR, LOCATED IN THE RETURN AIR (RA) DUCT MONITORS THE MIXED (MA), RA & OA TEMPERATURE. IF THE ROOM TEMPERATURE IS NOT WITHIN 100F DEGREES OF ROOM TEMPERATURE SET POINTS, UNIT WILL GO INTO HEATING OR COOLING MODE TO MEET THE DESIRED TEMPERATURE SET POINTS.
 - EACH UNIT'S FAN WILL CONTINUE TO RUN FOR 2 MINUTES (ADJ) AFTER THE HEATING OR COOLING ROOM TEMPERATURE SET POINT IS MET.
 - COOLING MODE:
 - COMPRESSOR WILL BE ENERGIZED TO COOL THE AIR TO ROOM AIR TEMPERATURE.
 - COMPRESSOR (S) WILL SHUT OFF WHEN MECHANICAL COOLING IS NO LONGER NEEDED.
 - HEATING MODE:
 - HEATING CONTROLS WILL ENERGIZE GAS BURNER IN FIRST STAGE AND IF NECESSARY TO SECOND STAGE HEATING TO BRING AIR TEMPERATURE UP TO THE HEATING ROOM TEMPERATURE SET POINT.
 - IF GAS HEATING IS NO LONGER NECESSARY, GAS BURNERS WILL SHUT OFF.
- MIXED AIR TEMPERATURE IS WITHIN 10 F DEGREES OF ROOM TEMPERATURE:
 - COMPRESSOR IS NOT ENERGIZED
 - GAS BURNERS ARE NOT ENERGIZED.
 - UNIT OPERATES IN THE ECONOMIZER MODE.
 - ECONOMIZER MODE: WHEN OUTDOOR WEATHER CONDITIONS, AS SENSED BY UNIT MOUNTED CONTROLS, ARE BELOW ITS SETTING, AND FREE COOLING IS AVAILABLE, ECONOMIZER MODE SHALL BE ENABLED AND DAMPERS SHALL POSITION TO ENABLE 100% OA ENTERING THE BUILDING. EA DAMPERS TO MODULATE TO EXHAUST THE OA NOT BEING EXHAUSTED BY THE EXHAUST FANS (EFH-1 & EF-X).
 - WHEN THE OA SET-POINT IS BELOW 55F (ADJ.), THE MECHANICAL COOLING SHALL BE DISABLED. THE ECONOMIZER CONTROL SHALL RESET OA DAMPERS TO THE MINIMUM RUN OA INTAKE POSITION AND ENERGIZE THE MECHANICAL COOLING WHEN THE OA SET POINT IS EXCEEDED.
 - ADDITIONAL HIGH LIMIT SHUT OFF CONTROLS BELOW.
 - OA TEMPERATURE > 75F
 - OA TEMPERATURE > RA TEMPERATURE
 - (OA TEMPERATURE, OA RELATIVE HUMIDITY)>AIR
 - OA HUMIDITY > RA HUMIDITY
 - OA DEW POINT > 55F
 - OA TEMPERATURE > 75F
 - NO FIXED ENTHALPY CONTROL.
- EXHAUST FANS
 - REST ROOM EXHAUST FANS (EF) ARE TO BE STARTED BY AN OCCUPANCY SENSOR. WHEN THE OCCUPANT VACATES THE ROOM, THE FAN WILL REMAIN RUNNING FOR A MINIMUM OF 10 MINUTES (ADJ.).
- EXHAUST HOOD EXHAUST FAN (EFH-1)
 - GAS OVEN IS MANUALLY STARTED.
 - EXHAUST FAN EFH-1 AUTOMATICALLY ENERGIZES AND STARTS RUNNING.
 - ONCE EFH-1 IS UP TO SPEED, APPROXIMATELY 5 SECONDS (ADJ.), THE SUPPLY AIR UNIT (SAU) INTRODUCING THE LARGEST AMOUNT O OUTSIDE AIR (OA) INTO THE BUILDING STARTS.
 - ROOF TOP UNITS (RTU), AIR HANDLING UNITS (AHU) AND / OR MAKE-UP AIR UNITS (MAU) ARE CONSIDERED AS SUPPLY AIR UNITS (SAU).
 - IF THERE IS A DEDICATED MAKE-UP AIR UNIT PROVIDING OA TO A SELF-COMPENSATING HOODS, THIS UNIT SHALL BE THE FIRST UNIT STARTED.
 - AFTER A 5 SECOND (ADJ) INTERVAL, THE SAU BRING IN THE NEXT LARGEST AMOUNT OF OA INTO THE BUILDING STARTS.
 - THIS PROCESS CONTINUES UNTIL ALL OF THE SAU'S HAVE BEEN STARTED.
- WHEN GAS OVEN IS TURNED OFF:
 - ANY DEDICATED MAKE-UP AIR UNIT STOPS.
 - ON ALL SUPPLY AIR FANS OA DAMPERS CLOSE TO MINIMUM ALLOWED OA POSITION AND THE EA DAMPER IS SET TO ALLOW SLIGHT BUILDING PRESSURIZATION.
- UNOCCUPIED MODE:
 - VENTILATION AND ECONOMIZER DAMPERS BECOME FULLY CLOSED.
 - THERMOSTAT SENDS SIGNAL TO UNITS TO OPERATE IN SETBACK MODE UNTIL NEXT OCCUPIED MODE CYCLE PER THERMOSTAT PROGRAMMING.
 - DURING HEATING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE ABOVE 55F.
 - DURING COOLING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE BELOW 85F.
 - UNITS SHALL BE SEQUENCED TO MAINTAIN SPACE TEMPERATURE AS FOLLOWS:
 - THE LARGEST TONNAGE UNIT, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL RUN TO MAINTAIN THE SPACE SETBACK TEMPERATURE.
 - IF THE SPACE TEMPERATURE IS MEASURED AS 30F ABOVE THE COOLING OR 30F BELOW THE HEATING SETBACK TEMPERATURE, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL START TO MAINTAIN THE SPACE SETBACK TEMPERATURE. WHEN THE TEMPERATURE DROPS TO 20F BELOW THE SETBACK TEMPERATURE IN COOLING MODE OR ABOVE SETBACK TEMPERATURE IN HEATING MODE, THE SECOND UNIT SHALL TURN OFF.
- AIR CONDITIONING UNIT MANUAL OVERRIDE MODE:
 - VENTILATION AND ECONOMIZER DAMPERS BECOME POSITIONED AT THE MINIMUM OA SETTING.
 - THERMOSTAT SENDS SIGNAL TO UNIT TO OPERATE IN NORMAL MODE.
 - MANUAL OVERRIDE TIMER TO BE SET FOR A PERIOD OF 2 HOURS (ADJ.).
- SMOKE DETECTORS
 - IF A FIRE ALARM SYSTEM IS PRESENT IN THE BUILDING, SMOKE DETECTORS TO NOTIFY FIRE ALARM SYSTEM IN THE EVENT OF SMOKE BEING DETECTED.
- NON-EMERGENCY OPERATION:
 - THERMOSTATS, COMPRESSOR AND FANS RUN AS NORMAL.
- SMOKE DETECTED IN SUPPLY OR RETURN:
 - SMOKE DETECTOR GENERATE VISIBLE ALERT SIGNS.
 - SMOKE DETECTOR SENDS SIGNAL TO HVAC SYSTEM TO SHUT OFF.
 - AIR CONDITIONING AND MAKE-UP AIR UNITS TO HAVE FANS AND COMPRESSORS DE-ENERGIZE.



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:

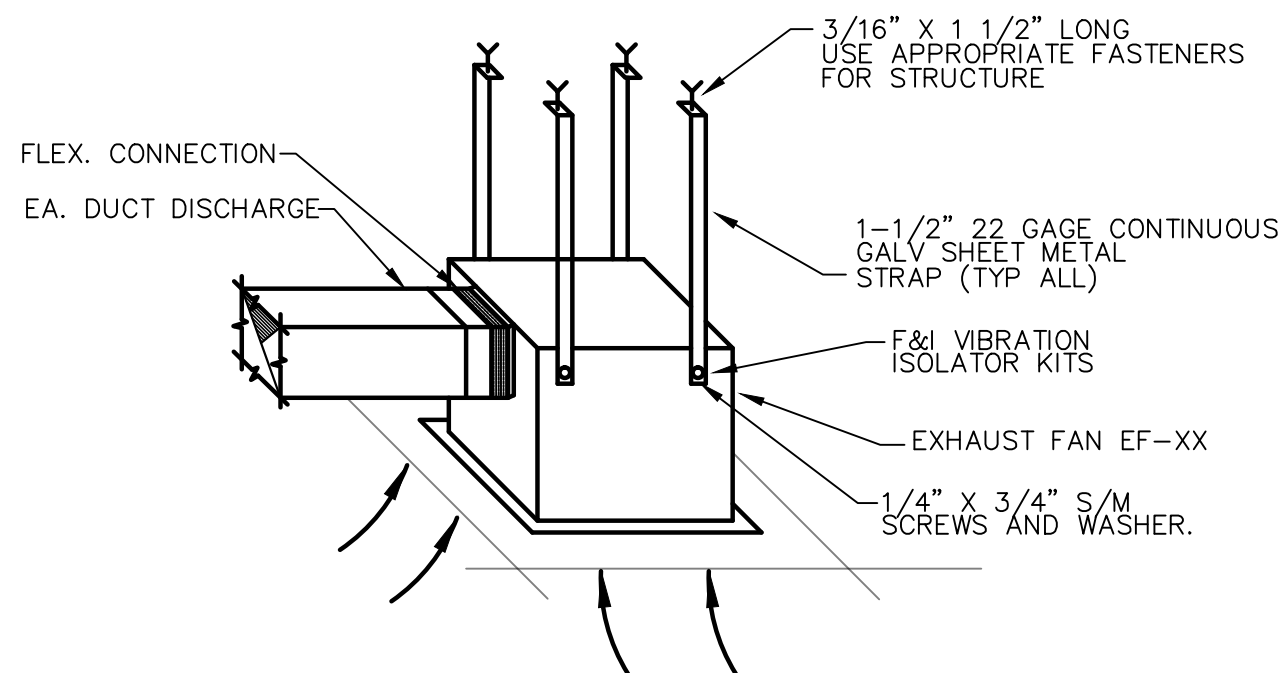
SHEET NAME:

MECHANICAL DETAILS
AND
SEQUENCE OF
OPERATIONS

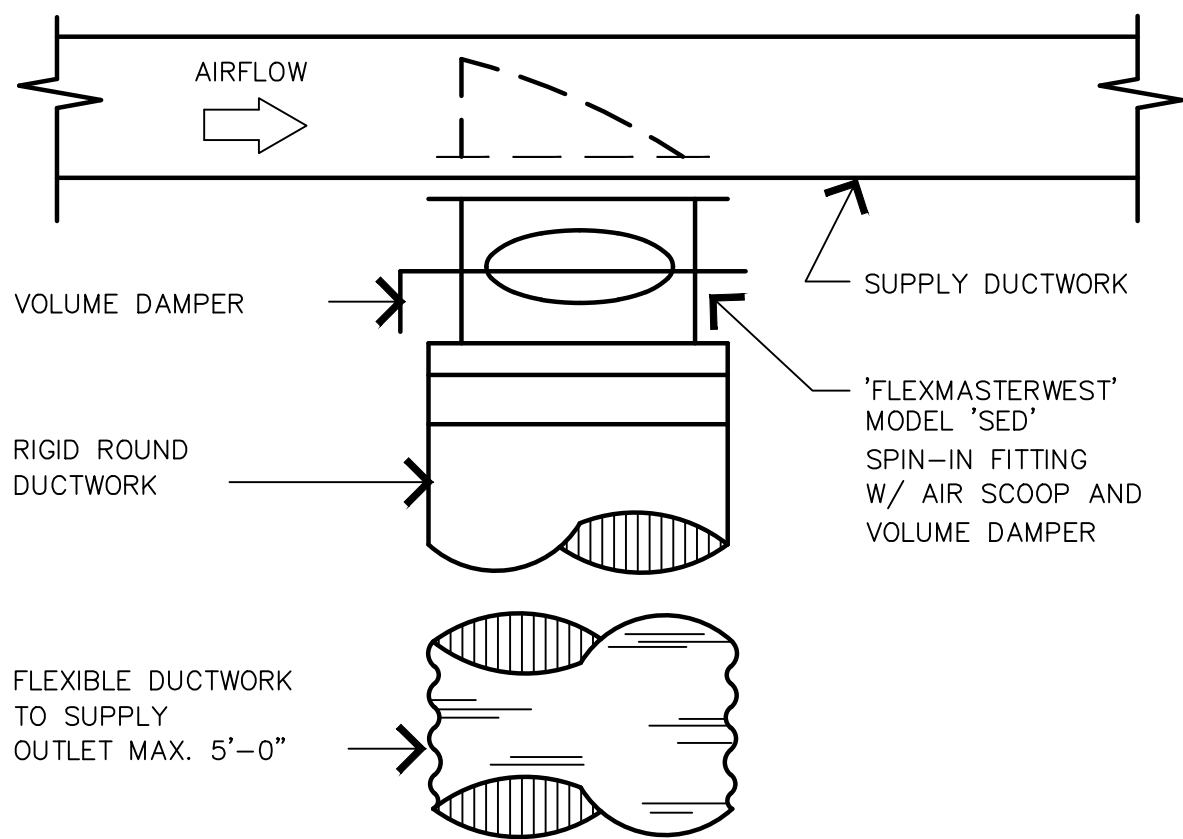
SHEET NUMBER:

M3.0

THE DETAILS ON THIS SHEET ARE STANDARD DETAILS. NOT ALL DETAILS MAY BE RELEVANT TO THIS PROJECT.

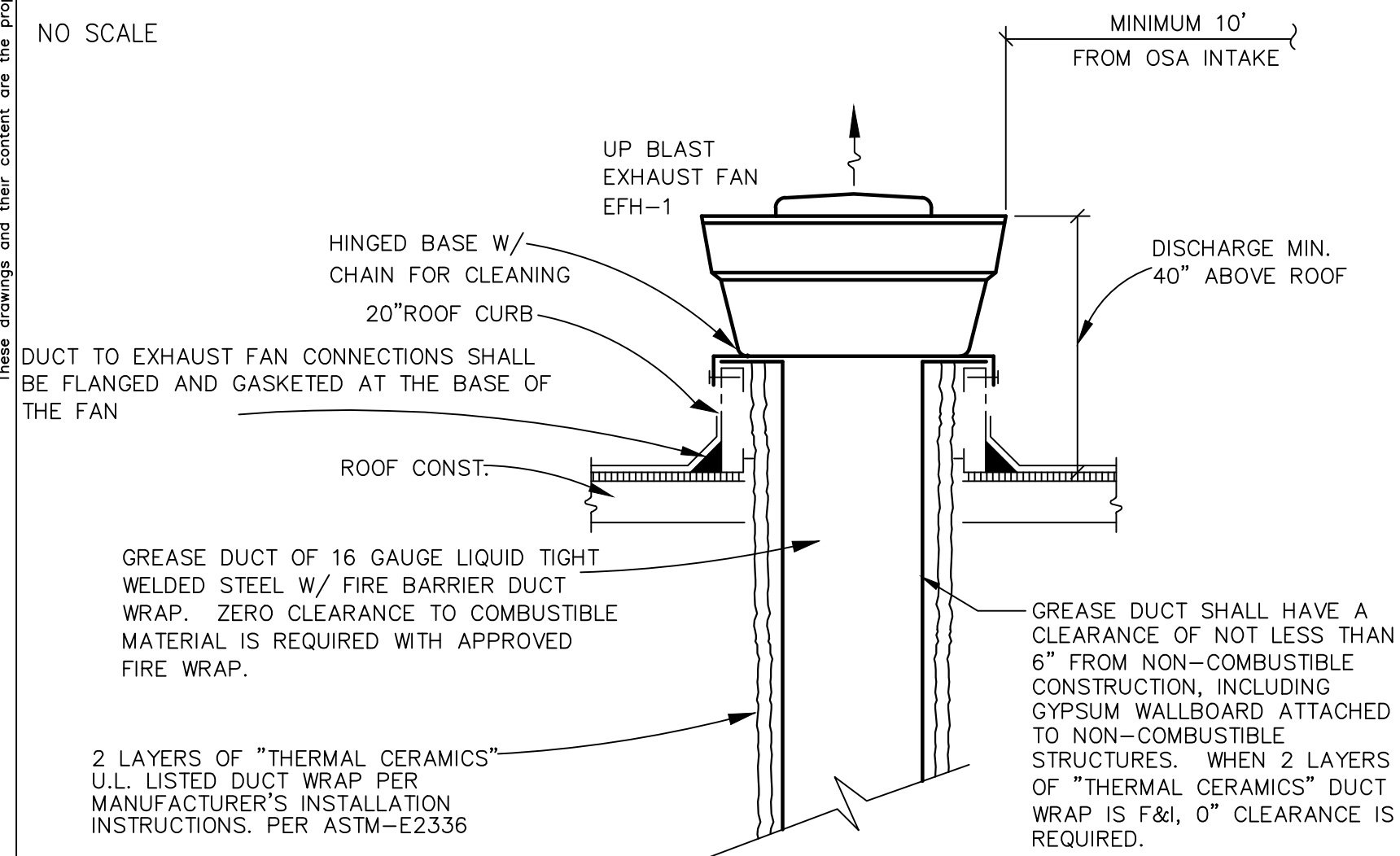


RESTROOM FAN INSTALLATION DETAIL
SCALE: N.T.S



BRANCH DUCT TAKE-OFF DETAIL

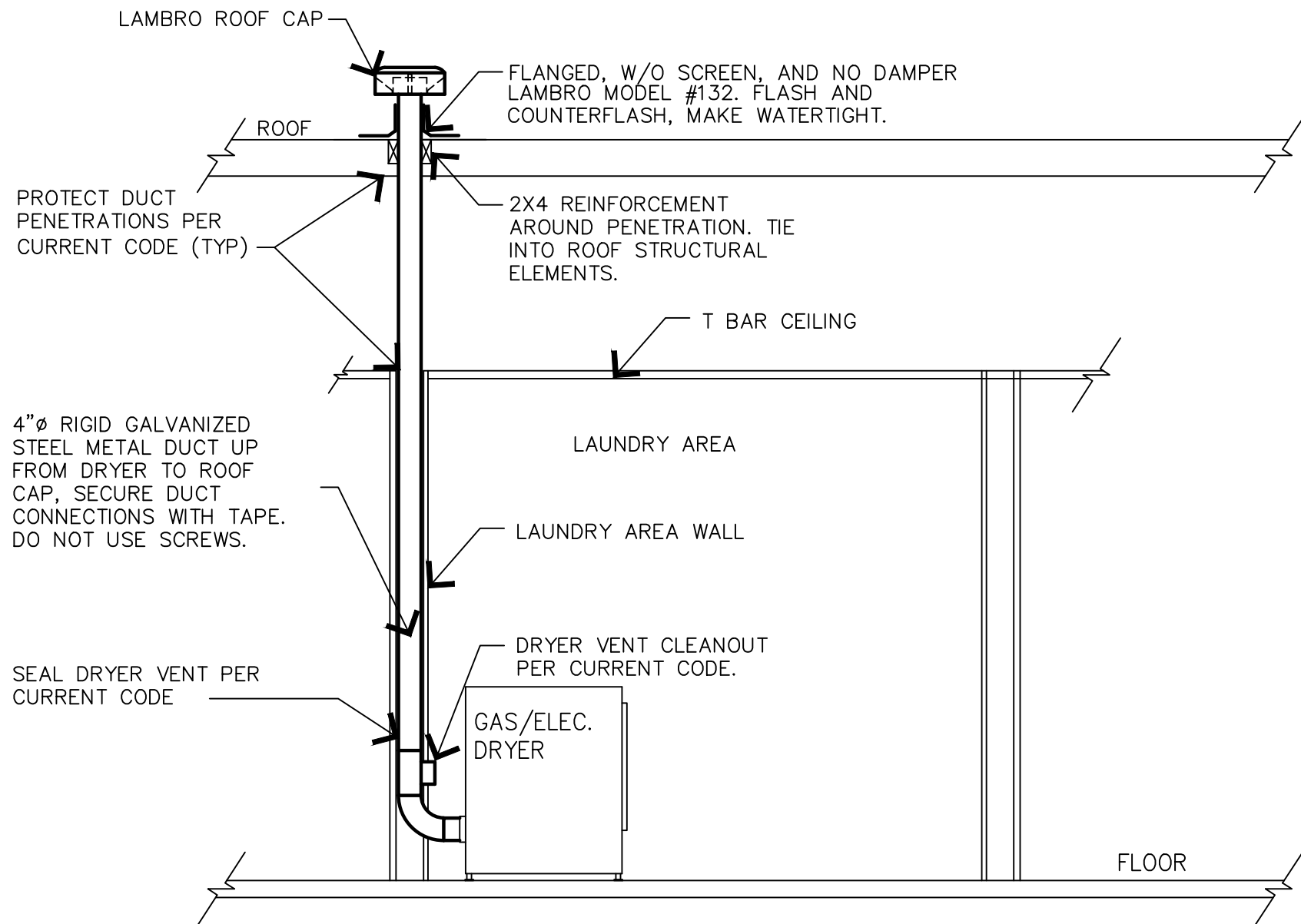
NO SCALE



NOTE:
EXHAUST OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS, ADJACENT PROPERTY LINES AND AIR INTAKE OPENINGS INTO ANY BUILDING AND SHALL BE LOCATED NOT LESS THAN 10 FEET ABOVE THE ADJOINING GRADE LEVEL.

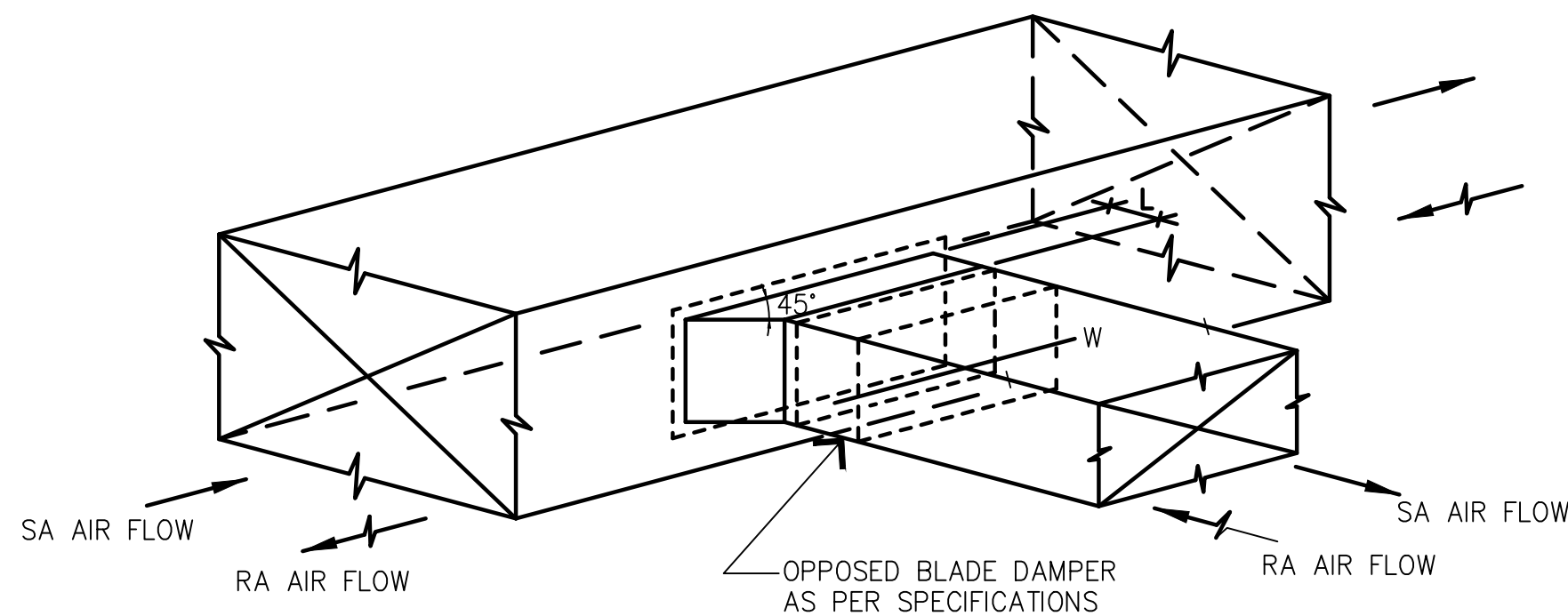
EXHAUST FAN DETAIL

NO SCALE



DRYER VENT DETAIL

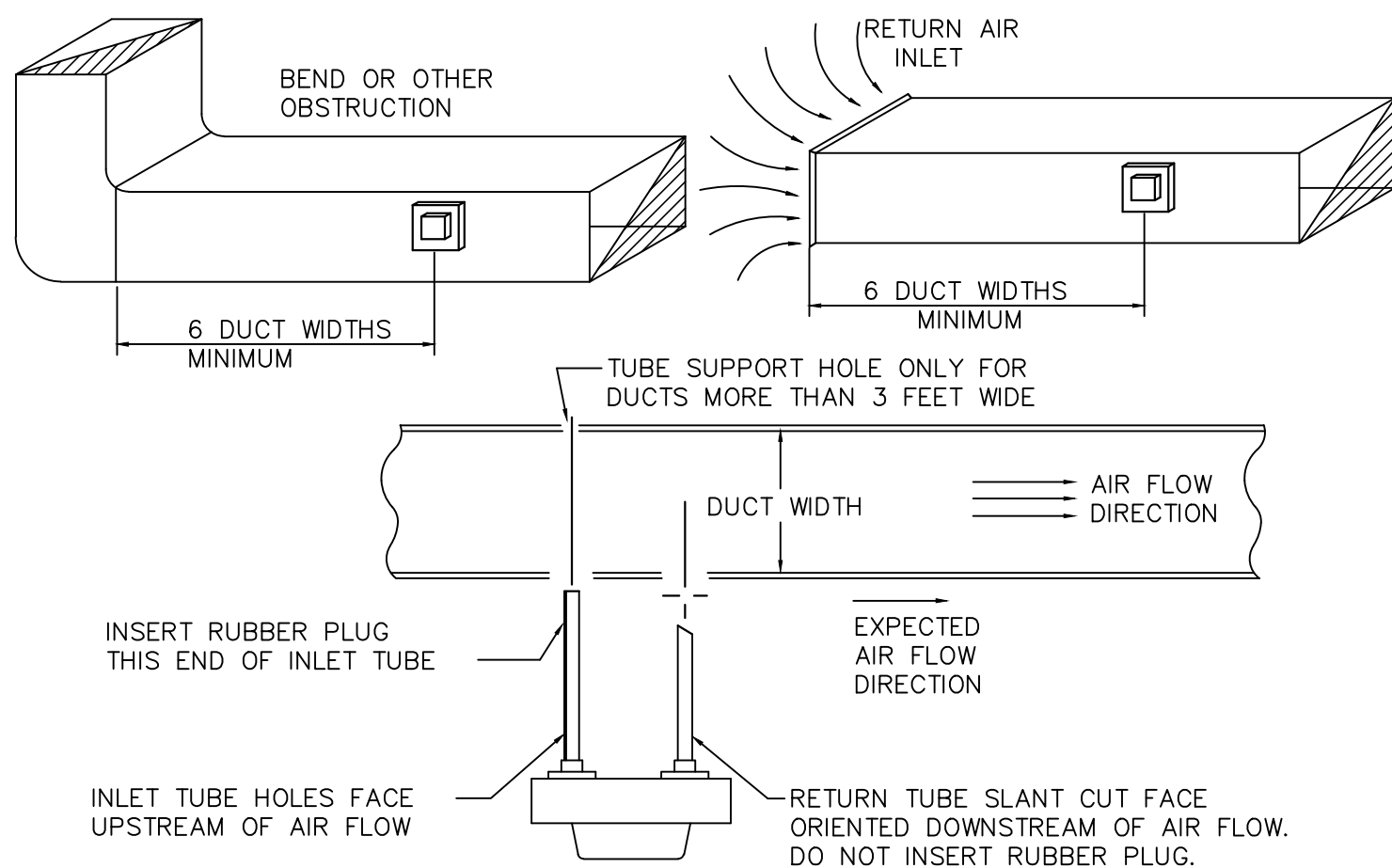
NO SCALE



NOTES:
1. L = 1/4 W (4" MIN.)
2. ALL DUCTWORK SHALL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS AND UL 181.

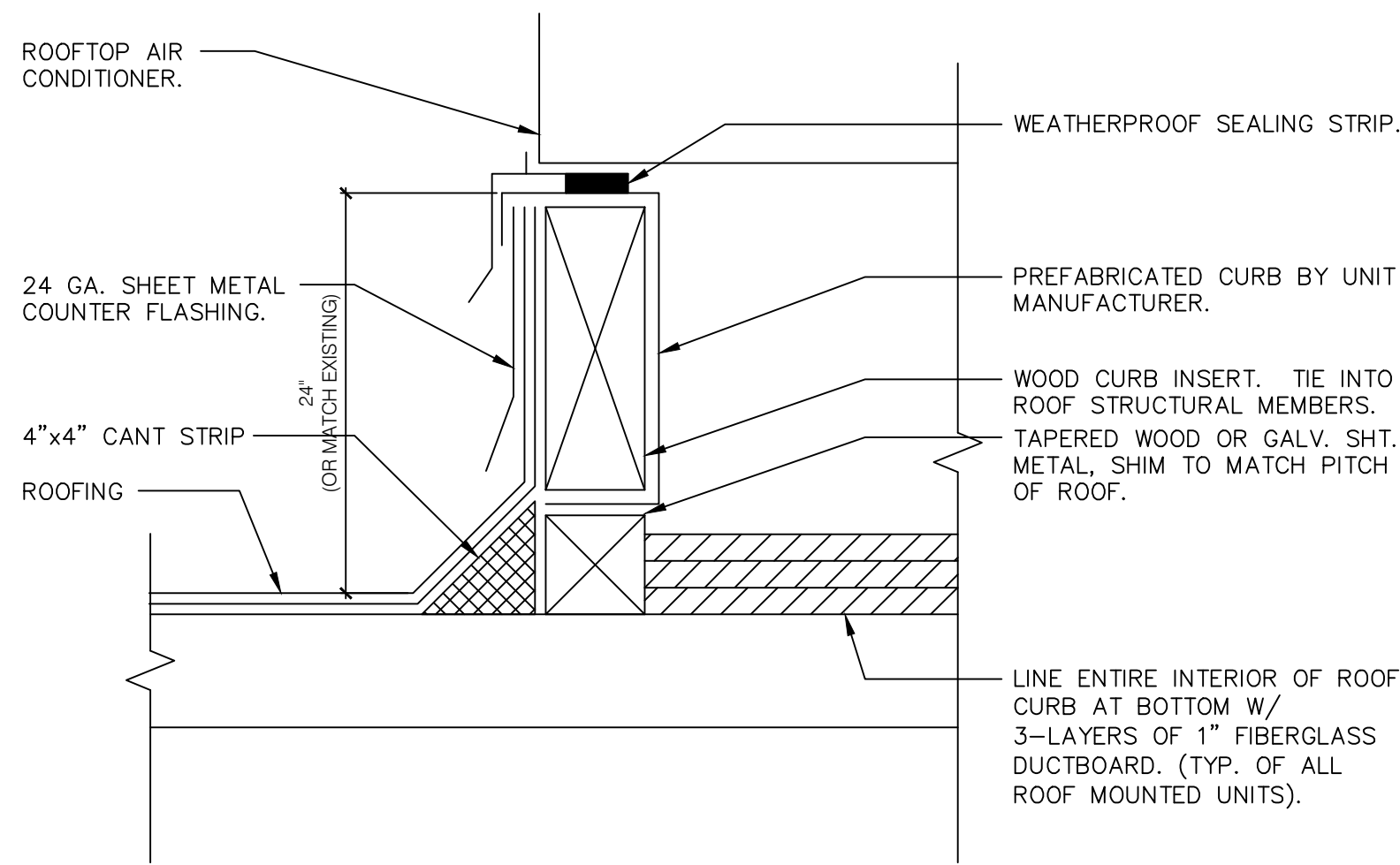
BRANCH DUCT TAKE-OFF & DAMPER DETAIL

NO SCALE



TYPICAL DUCT DETECTOR INSTALLATION

NOT TO SCALE



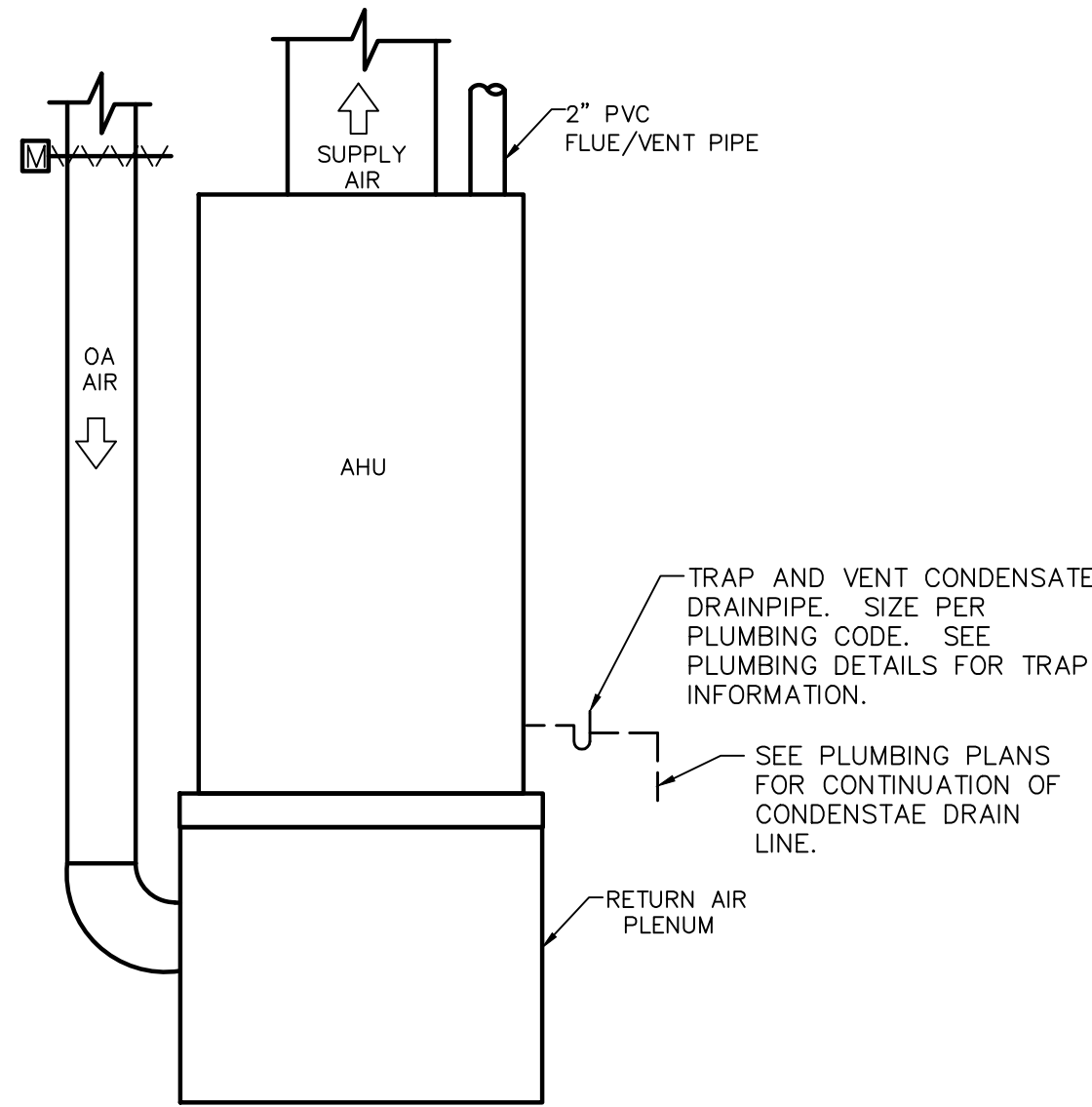
NOTES:

WHERE POSSIBLE ALL ELECTRICAL CONDUIT & DRAIN PIPING SHALL BE ROUTED THROUGH ROOF WITHIN THE CONFINES OF CURB PERIMETER.

APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS AS REQUIRED FOR LOCAL SEISMIC ZONE.

CURB INSTALLATION DETAIL

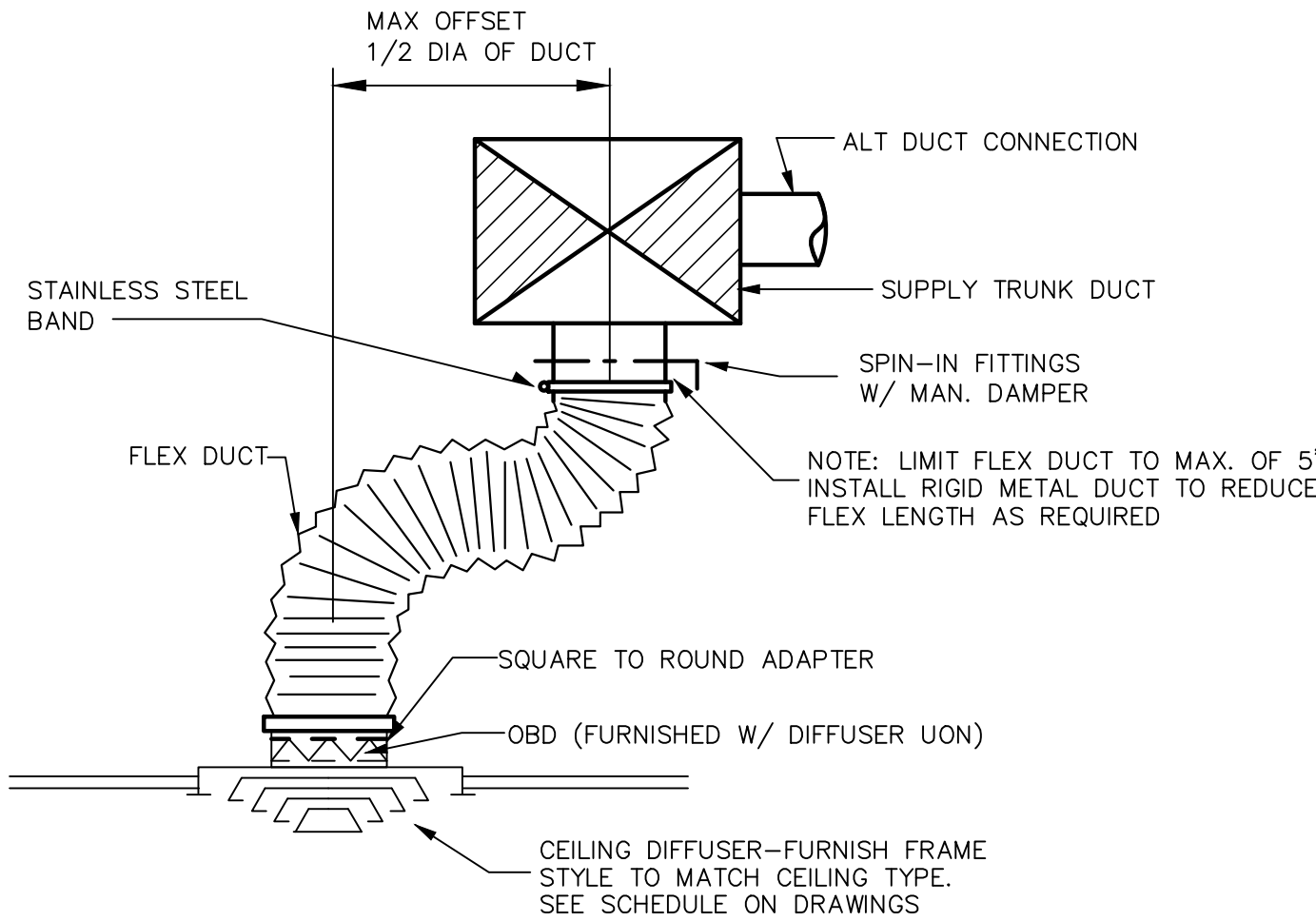
NOT TO SCALE



NOTE:
SIZE AND LOCATION OF FLUE/VENT PIPE CONNECTION VARIES BY MODEL AND MANUFACTURER. REFER TO MANUFACTURER'S INSTRUCTIONS FOR FLUE AND VENTING REQUIREMENTS.

AIR HANDLER DETAIL

NO SCALE

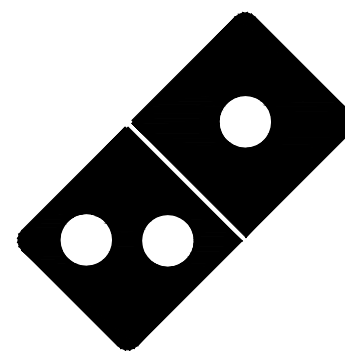


TYP. DUCT CONNECTION

NO SCALE



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
T: 503.552.9079
F: 503.241.7055
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

MECHANICAL
DETAILS

SHEET NUMBER:

M4.0

COMcheck Software Version 4.11.0

Mechanical Compliance Certificate

Project Information

Energy Code:
Project Title:
Location:
Climate Zone:
Project Type:

2018 IECC
DEEZ Management LLC
Leas Summit, Missouri
Altération

Designer/Contractor:

Construction Site:
3544 SW Market St
Leas Summit, MO 64082

Owner/Agent:
DEEZ Management LLC dba
Domino's
3901 NW Ridge Catwalk
Kansas City, MO 64113

Mechanical Systems List

Quantity System Type & Description

1 ITU (3.8) (Energy Zone)
Heating: 1 each - Central Furnace, Gas, Capacity: 40 kBTU/h
Proposed Efficiency: 90.00 Btu's / Btu's Required Efficiency: 80.00 Btu's / Btu's or 80% AFUE
Cooling: 1 each - Split System, Capacity: 39 kBTU/h, Air-Cooled Condenser, No Economizer, Economizer exception, None
Proposed Efficiency: 14.00 SEER, Required Efficiency: 13.00 SEER
Fan System: 1.00 CFM - Compliance (Motor ramped up HP method) - Passes

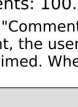
Fans:
Fan 1 Supply, Constant Volume, 1200 CFM, 0.8 cfm/gpm rule, 0.8 fan efficiency grade
1 WH-1:
Gas Instantaneous Water Heater, Capacity: 0.8 gallons/hr, Input Rating: 195 kBTU/h
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building code and other calculations used to determine this project approval. Proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.11.0 and to comply with any applicable mandatory requirements listed in the inspection Report.

Name: Title: Signature: Date:

Project Title: Domino's Pizza Report date: 04/23/21
Data filename: S:\J Project FILES\04230421\0426 Covey Leas Summit, MO_Now Store_CDU\CDU-MEPS401 Page 1 of 2



COMcheck Software Version 4.1.1.0

Inspection Checklist

Energy Code: 2018 IECC

Report Date: 04/23/2018

Project Title: DOMINIC'S PIZZA

File Reference: S:\PJ_PDF\1503540079\0401 (Stave Covey_Law's Summit_HO_Nozzle_Std_IDD-MEP0401) Page 2 of 10

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # Ref ID	Plan Review	Complies?	Comments/Assumptions
C102.2 (P102)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C102.3 (P103)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. For fire water system used per manufacturer's listing data.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1)

2 | Medium Impact (Tier 2)

3 | Low Impact (Tier 3)

Section #	Footings / Foundation Inspection	Complies?	Comments/Assumptions
6 Req ID			
6402.12.2	Serialize meeting system and trapez protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. Future correction to controls.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	Requirement will be met.
6402.12.3			
FOU?			
Additional Comments/Assumptions:			
<div> <div>1 High Impact (Tier 1)</div> <div>2 Medium impact (Tier 2)</div> <div>3 Low impact (Tier 3)</div> </div>			
Project Title:	Domino's Pizza		Report date: 04/23/21
Data File name:	D:\PROJECT FILES\6402\VS401 (Steve Covey, Lee's Summit, MO, New Store_CDID-HEPS0401		Page 3 of 10

Section & Rev.	Flaming Rough-In Inspection	Complex?	Comments/Assumptions
C40.6	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Requirement will be met.
C40.6.1	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Requirement will be met.
C40.6.2	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Requirement will be met.
C40.6.3	Pumps that circulate water between heater and storage tank have controls that limit operation from startup to ≤ 5 minutes after end of heating cycle.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Exception: Requirement would not apply.
C40.6.4	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to ≤ 5 minutes after end of heating cycle.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Requirement will be met.
C40.7	Demand recirculation water systems have controls that start the pump upon receiving a signal from the actuator of a call of a heater or appliance and limits the temperature of the water entering the cold-water pump to 104°F.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Exception: Requirement would not apply.
C40.7.1	Demand recirculation water systems have controls that start the pump upon receiving a signal from the actuator of a call of a heater or appliance and limits the temperature of the water entering the cold-water pump to 104°F.	<input checked="" type="checkbox"/> Complex <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Check Applicable	Requirement will be met.

Additional Comments/Assumptions:

Project Title: Dominion's Plaza
 File Name: S:\PROJECT FILES\90-00401\90401 (State Conv Levy Summit, HOJ New Store_CD-ID-MEP)401 Page 4 of 8

Section # & Rev	Mechanical/Risk Inspection	Complies	Comments/Assumptions
CES-012 [ME117]	Thermally reflective gasket surfaces of sealable bearing panels have insulation R-5.	[Complies] [Does Not Comply]	Exception: Requirement does not apply.
CES-011 [ME127]	HVAC piping expansion installed in accordance with Title C433.3.3. Piping supports are designed to protect from damage and is provided with adequate clearance.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Comply]	Requirement will be met.
CES-014 [ME148]	Noises for fans that are less than 1/12 inch but more than 1/6 inch are electronically connected motors have a minimum motor speed frequency of 70 percent. These motors have the means to adjust motor speed.	[Complies] [Does Not Comply] [Does Not Comply]	Requirement will be met.
CES-015 [ME149]	Eco Dry coating system - 45 lb/btu and other water-vaporative coating systems with less than 14 lbs per gallon dry film thickness applied as a function of load and comply with detailed requirements of the system.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Requirement will be met.
CES-016 [ME172]	Systems that treat outside the building envelope air conditioning systems controlled by an occupancy sensing device or time-of-day switch.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Exception: Requirement does not apply.
CES-023 [ME173]	HVAC equipment efficiency verified [IESNA 90.1-2010].	[Complies] [Does Not Comply]	See the Mechanical System # for values.
CES-029 [ME193]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 6. Mechanical ventilation has capability to reduce outdoor air intake to maximum per IMC Chapter 4.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Requirement will be met.
CES-071 [ME215]	Demand control ventilation provided for spaces >500 Btu/h and >25 people/100 ft ² . Occupancy density and CO ₂ sensors used to optimize economizer, air modulating outside air damper control or design airflow at >300 cfm.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Requirement will be met.
CES-072 [ME115]	Exhaust fan with garage ventilation has automatic carbon monoxide detection and capacity to meet design loads plus 20% or less of design capacity.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Exception: Requirement does not apply.
CES-176 [ME143]	HVAC systems serving designs in Group III-A buildings with no occupant spaces shall be equipped with controls that include variable temperature setpoint and ventilation loss sections C433.7.6.1 and C433.7.6.2.	[Complies] [Does Not Comply] [Does Not Comply] [Does Not Apply]	Requirement does not apply.
CES-073 [ME174]	Exhaust of energy recovery (ECR) on systems meeting Title C433.4(1) and C433.4.2(c).	[Complies] [Does Not Comply] [Does Not Comply]	Requirement will be met.
<div style="text-align: center;"> 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) </div>			

Project Name: Domino's Pizza Date Created: 04/23/2017

File Path: S:\PROJECT FILES\50040161\Shawn_Grove_Lava_Summmit_ND_New_Stores\CADD\MEP\B401 Page 3 of 4

Section	Mechanical Request/Inspection & Req ID	Complex?	Comments/Assumptions
	C403.7.1 [RE316]?	<div> <div> Kitchen exhaust systems comply with requirements at and conditions supply air limitations, and satisfy power requirements and maximum exhaust rate criteria. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
	C403.11.1 [RE507]	<div> <div> HVAC ducts and plenums installed in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during final condition inspection. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
	C403.4.1 [RE332]?	<div> <div> Heating by ventilators and air circulation with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 35°F. Ventilation heating and cooling systems controlled by a thermostat in the exhaust air stream shall be set at 60°F and cooling setpoint >= 80°F. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Exception: Requirement does not apply.
	C403.3.3 [RE353]?	<div> <div> Net gas inputs limited by <=240 kBtu/h - 50% >240 kBtu/h - 25% </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
	C408.2.2.1 [RE355]	<div> <div> Air outlets and zone terminal devices have means for air balancing. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
	C403.5.1 [RE315.1]	<div> <div> Refrigerated display cases, walk-in coolers or walk-in freezers use remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Section C403.5.1 and refrigerant compressor systems that comply with C403.5.2. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
	C403.5.2 [RE315.2]	<div> <div> Condensers not located in a condensing unit, have fan-powered condensers that comply with Section C403.5.1 and refrigerant compressor systems that comply with C403.5.2. </div> <div> <input type="checkbox"/> Compiles <input checked="" type="checkbox"/> Does not <input type="checkbox"/> Not Applicable </div> </div>	Requirement will be met.
Additional Comments/Assumptions:			
<div> <div>Project Title:</div> <div>Domini's RZA</div> <div>COMMENTS:</div> <div> <div>1 High Impact (Tier 1)</div> <div>2 Medium Impact (Tier 2)</div> <div>3 Low Impact (Tier 3)</div> </div> </div>			
Data filename: S:\PROJECT FILES\40054091 (Steve Covey, Lee's Summit, MO, New Store, CDD-MEP401)			Report date: 04/23/21
Page 6 of 10			

[illegible]

Section	Final Design	Complete?	Comments/Assumptions
4.6.4.0 4.6.4.1 (F14)	Furnished HVAC system for HVAC systems within 90 days of system startup.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.2.2 (F17)	HVAC systems and equipment capacity does not exceed calculated loads.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.1.7 (F14)	Heating and cooling to each zone is controlled by a thermostat control. Minimum use humidity control device per installed humidity/conditioning system.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.1.4.1 (F18)	Thermostatic controls have a 5°F deadband.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.3.2.4 1.3 (F19)	Temperature controls have setpoint override equipment.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.3.2 2 (F19)	Each zone equipped with setback controls using automatic time clock or programmable control circuit.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.3.2.4 1.2 (F19)	Automatic controls. Setbacks to 55°F (winter and 80°F (summer). 2 day, 20% occupant override. 10-hour setback.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.3.2.4 2.3 (F14)	Systems include optimum start controls.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.2.3 (F11)	Heat traps installed on supply and discharge piping of non-circulating systems.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.4.4 (F14)	All piping installed in accordance with section details and Table 4.6.3.11.3.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.6.4.1.1 (F15)	Building operations and maintenance documents will be provided to the manufacturer's information, specifications, programming procedures and means of illustrating to owner how the building equipment is intended to be installed, maintained, and operated.	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Close out <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Project Title: Domino's Pizza

1

High Impact (Tier 1)

2

Medium Impact (Tier 2)

3

Low Impact (Tier 3)

Project Data Reference: C:\P\PROJECT FILES\4404015401 (Steve Geer, Lee's Summit, MO, New Store, COLD MEPS401)

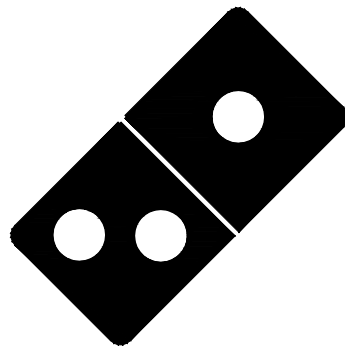
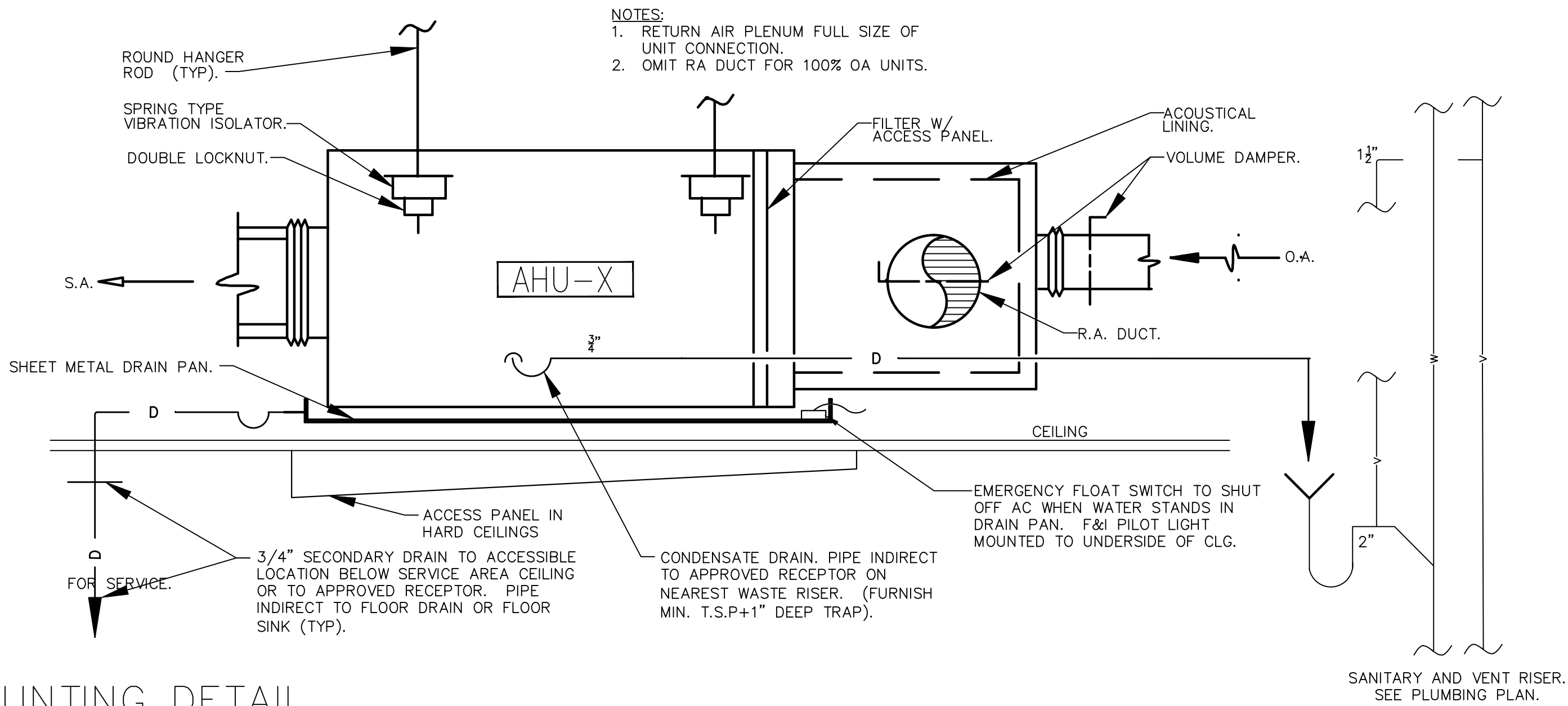
Page 8 of 11

Date: 04/23/21

Section & Req. ID	Final Inspection	Complete?	Comments/Assumptions
408.2.1 (I207)	Commissioning plan developed by registered design professional or approved agency.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.3.1 (I313)	HVAC equipment has been tested to ensure proper operation.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.3.1 (I310)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.4 (I235)	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.5.1 (I317)	Furnished HVAC submittal drawings submitted within 90 days of system acceptance.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.5.1 (I343)	An air and/or hydronic system balancing report is provided for HVAC systems.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
408.2.5.1 (I300)	Final commissioning report due to building owner within 14 days of receipt of certificate of occupancy.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
Additional Comments/Assumptions:			
<div> <div>1 High Impact (Tier 1)</div> <div>2 Medium Impact (Tier 2)</div> <div>3 Low Impact (Tier 3)</div> </div>			
Project Title: Domini's Plaza CORBIS/CKC			Report date: 04/23/2019 Date File Name: S:\2 PROJECT FILES\540015401 (Steve Cove, Lucy's Summit, MO) New Store_ID\CORP4403 Page 9 of 10

Project Title: Domino's Pizza
Data filename: S:\PROJECT FILES\5400\5401 (Steve Covey_Lee's Summit_WO_New Store_CD\2-MEP\5401 CONROE\CDs\

Report date: 04/23/21
Page 10 of 10



MECHANICAL SPECIFICATIONS

WORK INCLUDED -
ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF AN OPERATING HVAC SYSTEM INCLUDING HVAC EQUIPMENT, DUCTWORK, GRILLES, REGISTERS, CONTROL AND RELATED ITEMS AS REQUIRED OR SPECIFIED. OBTAIN AND PAY FOR BUILDING PERMITS, FEES, TESTS, AND INSPECTIONS REQUIRED IN CONNECTION WITH WORK. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES. THE FINAL PRODUCT SHALL BE A COMPLETE WORKING SYSTEM.

GENERAL -
ALL HVAC EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS AND PIPING. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR STRUCTURAL CONFLICT THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. DO NOT SCALE DRAWINGS. THE LOCATION OF ALL DUCTWORK EQUIPMENT AND RELATED ITEMS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION. THE EQUIPMENT AND DUCTWORK/DIFFUSER LOCATIONS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. VERIFY ALL CRITICAL DIMENSIONS AND ROUGH-IN REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS DIRECTLY UPON THE CONTRACTOR.

SUBSTITUTIONS -
IF THE CONTRACTOR DESIRES TO USE EQUIPMENT AND/OR MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, HE SHALL HAVE REQUESTED, IN WRITING, APPROVAL OF EACH SUCH SUBSTITUTION AND RECEIVED APPROVAL PRIOR TO BID OPENING. A CONTRACTOR OFFERING A SUBSTITUTION SHALL ACCEPT RESPONSIBILITY FOR ITS EFFECT ON THE WORK OF ALL TRADES. THE CONTRACTOR WHO REQUESTED SUCH SUBSTITUTION SHALL PAY ALL COST AND CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS.

DISCREPANCIES - IN THE EVENT THAT THE CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE DRAWINGS AND/OR SPECIFICATIONS, HE SHALL, BEFORE COMMENCING WORK, CONTACT THE ARCHITECT FOR CLARIFICATION.

FIRE/DRAFT STOP SURVEY -
THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS TO VERIFY THE LOCATION OF ALL FIRE AND/OR DRAFT BARRIERS IN THIS PROJECT PRIOR TO CONSTRUCTION. F&I UL AND LOCAL CODE APPROVED FIRE/SMOKE DAMPERS AND MECHANICAL PIPING PENETRATION, CONSTRUCTION MATERIALS AND INSTALLATION METHODS FOR BARRIER RATING ENCOUNTERED. INCLUDE RATED ACCESS PANELS FOR EACH DAMPER. FAILURE OF THE CONTRACTOR TO VERIFY REQUIRED FIRE/DRAFT BARRIER REQUIREMENTS PRIOR TO BIDDING THESE DOCUMENTS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS OR REVISIONS DIRECTLY ON THE CONTRACTOR.

ACCEPTABLE MANUFACTURERS -
THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

- HVAC EQUIPMENT: TRANE, CARRIER, PAYNE, YORK, DAY & NIGHT, LENNOX, RUUD AND ICP COMMERCIAL.
- DUCT & PIPE INSTALLATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED AND PPG
- EVAPORATE COOLERS: ARVIN, GOETTl, MASTER COOL, UNITED METAL PRODUCTS
- MAKE-UP AIR UNITS: ARIES, REZNOR, WESTERN AND STERLING
- HVAC CONTROLS: HONEYWELL, BARBER-COLEMAN, ROBERT SHAW, OR HVAC EQUIPMENT SUPPLIER FURNISHED
- GRILLES, REGISTERS, DIFFUSERS & LOUVERS: ANEMOSTAT, KRUEGER, METAL-AIRE, TITUS, RUSKIN AND PENN
- ACCESS DOORS: MILCOR, VENTGAB AND POTTER-ROEMER
- FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT
- EXHAUST FANS: GREENHECK, ACME, ILG, LOREN COOK, PENN AND BROAN
- SMOKE & FIRE DAMPERS: RUSKIN, PHILLIPS AND AIR BALANCE

AIR CONDITIONING UNITS -
SELF CONTAINED OR SPLIT SYSTEM. ELECTRIC/HEAT PUMP AIR CONDITIONING AND ELECTRIC RESISTANCE OR GAS HEATING SECTION, TYPE, CAPABILITIES AND RATING INDICATED ON THE DRAWINGS. ARI, AND/OR AGA CERTIFIED, UL LISTED. INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL.

EVAPORATIVE COOLER UNITS -
FURNISH AND INSTALL EVAPORATIVE COOLERS. EACH UNIT SHALL BE COMPLETE WITH BLOWER AND MOTOR WITH STARTERS. F&I SNAP LOCK PAD FRAMES, UNDERCOATING OF RESERVOIR, STRAINER BASKET, FLOAT KIT, WATER CONNECTION KIT, 'AQUATROL', BLEED CONTROL, PUMP, MODELS AND CAPACITIES AS INDICATED ON DRAWINGS. APPROVED UNITS SHALL BE CERTIFIED FOR AIR DELIVERY OR BE INCREASED IN SIZE TO MEET DESIGN STANDARDS, INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL. COOLER SHALL BE CONNECTED TO A SYSTEM OF DRAINAGE TO FACILITATE THE DRAINING OF COOLER AND THE BLEED-OFF LINES. LINES SHALL BE TYPE 'M' COPPER, TERMINATE DRAINAGE LINES AS INDICATED ON DRAWINGS. EVAPORATIVE COOLING EQUIPMENT SHALL BE U.L. LISTED AND MUST HAVE A PERMANENTLY ATTACHED LABEL.

HVAC EQUIPMENT DRAINS -
TO BE INSTALLED AS INDICATED OR REQUIRED. USE TYPE 'M' COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST CODE APPROVED DRAINAGE RECEPTOR. LAVATORY TAILPIECE (FURNISHED BY PLUMBER) OR DRAIN OUTSIDE IN PLANTER AREA, SLOPE DRAIN AT A MINIMUM OF 1/8" PER FT.

NOTE: INSULATE ALL CONDENSATE DRAIN LINES ABOVE CEILING.
NOTE: CONTRACTOR OPTION TO USE PVC WITH OWNERS APPROVAL. SCHEDULE 40 PVC ACCEPTABLE WHERE CONCEALED WITHIN STRUCTURE. NO PVC PIPING ABOVE ROOF OR AT EXTERIOR OF BUILDING.

TEMPERATURE CONTROL SYSTEM -
AS INDICATED OR REQUIRED, F&I THERMOSTAT AND SUB BASE, WITH HINGED AND LOCKABLE OPAQUE COVER(PUBLIC AREAS ONLY). CONTROLS SHALL BE FURNISHED AS RECOMMENDED BY HVAC EQUIPMENT SUPPLIER, SUITABLE FOR APPLICATION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER.

NOTE: CONTRACTOR TO F&I PROGRAMMABLE THERMOSTAT.
NOTE: EACH HEATING AND COOLING SYSTEM SHALL HAVE AT LEAST ONE SOLID-STATE PROGRAMMABLE THERMOSTAT. THE THERMOSTAT SHALL HAVE THE CAPABILITY TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF THE WEEK AND TIME OF DAY, AND F&I A READY ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRE-SETBACK OR SHUTDOWN WITHOUT REPROGRAMMING.

EXHAUST FANS -
SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. FURNISH COMPLETE WITH FACTORY CURBS/ROOF CAPS, BAROMETRIC WINDSTOPPER, SPEED CONTROL, DISCONNECT, STARTER (IF REQUIRED) AND BIRD SCREEN. FURNISH ROOF MOUNTED FANS WITH INSULATED ROOF CURB. F&I CEILING MOUNTED FANS WITH WALL/ROOF GAP.
NOTE: ALL EXHAUST SYSTEMS MUST HAVE DAMPERS THAT ARE AUTOMATICALLY CLOSED WHILE THE EQUIPMENT IS NOT OPERATING.

GRILLES, DIFFUSERS AND REGISTERS -
SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. F&I ALUMINUM TYPE FOR EVAPORATIVE COOLERS AND AREAS SUBJECT TO MOISTURE. F&I EXTRACTORS BEHIND ALL SUPPLY REGISTERS.
NOTE: EACH SUPPLY AIR OUTLET OR DIFFUSER MUST HAVE ITS OWN BALANCING DEVICE. ACCEPTABLE BALANCING DEVICES INCLUDE ADJUSTABLE DAMPERS LOCATED WITHIN THE DUCTWORK, TERMINAL DEVICES AND SUPPLY AIR DIFFUSERS. EACH BALANCING DEVICE OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT USED IN BALANCING SHALL BE FURNISHED WITH ACCESS.

DUCTWORK -
ALL DUCTWORK INSTALLATIONS MUST CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE CODE.
ALL LOW PRESSURE HEATING AND AIR CONDITIONING DUCTWORK SHALL BE FABRICATED FROM LOCK FORMING PRIME GRADE GALVANIZED STEEL SHEETS (MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE FABRICATED FROM ALUMINUM SHEETS), AND INSTALLED BY SKILLED MECHANICS IN STRICT CONFORMANCE WITH THE LATEST SMACNA MANUAL. CROSS BREAK ALL SIDES OF DUCTS. SUPPORT ALL DUCTWORK FROM OVERHEAD STRUCTURE WITH STRAP IRON OR ANGLES. ALL DUCT DIMENSIONS ARE NET FREE AREA AND DO NOT INCLUDE ALLOWANCE FOR INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH U.L. 181A OR U.L. 181B.

HORIZONTAL AND VERTICAL DUCT SUPPORTERS -
REFER TO CURRENT CODE EDITION FOR DUCT SUPPORTS.

DUCTWORK FABRICATION -
F&I CONNECTIONS BETWEEN EQUIPMENT AND DUCTWORK (DURODYNE 'GRIP LOCK' OR EQUAL). F&I SHEET METAL SHIELDED OVER EXPOSED JOINTS, COVER ALL JOINTS, SEAMS AND LOCKS ON INTERIOR AND EXTERIOR DUCTWORK WITH 4 OZ. CANVAS SATURATED WITH VINYL ACRYLIC DUCT SEALANT (UL LISTED, FLAME SPREAD 0) TO MAKE AIR TIGHT. WHERE DUCTS PASS THROUGH THE WALLS OR ROOF, FLASH AND COUNTER FLASH TO LEAVE WATERIGHT INSTALLATION. PAINT ALL EXPOSED DUCTWORK TO MATCH SURROUNDING CONSTRUCTION OR AS RECOMMENDED BY ARCHITECT. F&I AIRFOIL TURNING VANES ON ALL RIGHT ANGLE ELBOWS. F&I VOLUME AND SPLITTER DAMPERS WHERE SHOWN ON DRAWINGS AND AS REQUIRED. FLEXIBLE DUCTWORK SHALL BE OF FLEXIBLE WIRE REINFORCED FIBERGLASS DUCT TYPE UL CLASS 1), AND NYLON LINED AND COVERED. CONNECTORS TO BE UL APPROVED. FLEXIBLE DUCTWORK SHALL BE LIMITED TO RUN-OUTS TO DIFFUSERS OF (5) FIVE FT. OR LESS, SUPPORTED WITH STRAP HANGERS.

DUCTWORK INSULATION -
ALL ACOUSTIC LINER TO BE MINIMUM 1.5 PCF DENSITY, WITH NFPA 90A APPROVED LINER OR COATING. THERMAL INSULATION SHALL BE MINIMUM 3/4 PCF DENSITY, WITH A MAXIMUM 'K' FACTOR OF 0.30 AT 75DEGREES F AND SHALL HAVE A FLAME RETARDANT FOIL-SKIMMKRAFT VAPOR BARRIER (FSK), FASTENED TO DUCTWORK WITH 16 GA. WIRE @ 12" O.C. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS. EXTERIOR HVAC DUCTWORK TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8. INTERIOR DUCTWORK BELOW CEILING INSULATION TO BE MINIMUM 1-1/2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.), OR WRAP WITH 1-1/2" FIBERGLASS DUCT WRAP, 3/4 PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.) AND FLAME RETARDANT FOIL-SKIMMKRAFT VAPOR BARRIER (SKF). INTERIOR SHEET METAL DUCTWORK ABOVE CEILING INSULATION TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.) OR WRAP WITH FIBERGLASS DUCT WRAP, 3/4" PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.). COMBINATION HEATING/COOLING MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE INSULATED ON THE EXTERIOR WITH 1-1/2" THICK GLASS FIBER RIGID BOARD WITH ALL SERVICE JACKET (MIN. 3 PCF DENSITY, K=0.23, R=8). RIGID INSULATION ON OUTDOOR DUCTWORK SHALL BE COVERED WITH A LAYER OF OPEN WEAVE GLASS CLOTH EMBEDDED BETWEEN TWO COATS OF WEATHERPROOF MASTIC OF NOT LESS THAN 1/8" TOTAL THICKNESS. DUCTWORK CONVEYING EVAPORATIVE COOLED AIR ONLY SHALL NOT BE INSULATED. DUCTWORK INSULATION SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT ENERGY CODE EDITION AND SHALL BE INSTALLED BY LICENSED INSULATION CONTRACTOR, IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. ALL AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:

- A. SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED NOR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE: ATTICS, CRAWL SPACES, UNHEATED BASEMENTS AND UNHEATED GARAGES.
- B. SUPPLY AND RETURN AIR DUCTS AND PLENUMS MUST BE INSULATED TO A MINIMUM OF R-8 WHEN LOCATED OUTSIDE THE BUILDING IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8.
- C. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8
EXCEPTION: DUCT INSULATION IS NOT REQUIRED ON DUCTS LOCATED WITHIN THE EQUIPMENT EXCEPTION: DUCT INSULATION IS NOT REQUIRED WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15DEGREES F.
- D. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL UNITS.
- E. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED '181A-P' FOR PRESSURE-SENSITIVE TAPE, '181A-M' FOR MASTIC OR '181A-H' FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '181B-FX' FOR PRESSURE-SENSITIVE TAPE OR '181B-M' FOR MASTIC. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

LOW PRESSURE HVAC DUCTWORK -
LOW PRESSURE DUCTWORK TO BE AN DUCTWORK AT 2" W.G. OR LESS. CONSTRUCT PARTITION FORMING PLENUMS OR SLOUGH CHAMBERS OF #18 GAUGE WITH 1-1/2" x 1-1/2" x 3/16" GALVANIZED IRON ANGLES AND RIVETS FOR SEAM CONNECTIONS AND STIFFENING. ALL SUPPLY, RETURN AND EXHAUST DUCTS (AS NOTED) SHALL BE PRIME STEEL SHEETS HOT-DIPPED GALVANIZED OF THE FOLLOWING GAUGES:

- UP TO 12" WIDE OR DIAMETER - #26
- 13" UP TO 30" WIDE OR DIAMETER - #24
- 31" UP TO 45" WIDE OR DIAMETER - #22
- ALL EXHAUST DUCTWORK SHALL BE - #24

HVAC INTERLOCKS/ SMOKE DETECTORS -
F&I ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INTERLOCK HVAC SUPPLY AND EXHAUST SYSTEMS SPECIFIED ON THE DRAWINGS OR REQUIRED BY THE CURRENT MECHANICAL CODE, FURNISH, INSTALL AND CONNECT SMOKE DETECTORS (APPROVED BY REGULATING AGENCY) ON THE RETURN SIDE OF ALL HVAC FANS EXCEEDING 2000 CFM OR AS REQUIRED PER LOCAL REGULATIONS TO SHUT DOWN FAN IF SMOKE IS DETECTED IN DUCTWORK. SMOKE DETECTOR SHALL BE MOUNTED IN RETURN AIR DUCT. AUTOMATIC SHUT-OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE MECHANICAL UNIT. UPON DETECTION OF SMOKE IN THE MAIN RETURN AIR DUCT, ACTIVATION OF ANY DETECTOR SHALL SHUT DOWN ALL UNITS WITHIN THE SYSTEM. SMOKE DETECTOR SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATION VELOCITIES, PRESSURES, TEMPERATURE AND HUMIDITY OF THE SYSTEM. DETECTOR SHALL BE 120 V/1 PHASE (OR AS DIRECTED BY THE ELECTRICAL CONTRACTOR) AND U.L. LISTED. COORDINATE AS REQUIRED PRIOR TO ORDERING AND INSTALLING. DETECTOR SHALL BE FURNISHED AND INSTALLED BY MECHANICAL. LINE VOLTAGE BY ELECTRICAL.

NOTE: IF A FIRE ALARM SYSTEM IS AVAILABLE, THE DUCT SMOKE DETECTOR(S) SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM PER THE CURRENT MECHANICAL CODE. IF A FIRE ALARM SYSTEM IS NOT AVAILABLE, F&I A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY SUPERVISED LOCATION TRIGGERED BY THE ACTIVATION OF A DUCT SMOKE DETECTOR, INCLUDE THE AIR DUCT DETECTOR TROUBLE INDICATOR (LED AT THE CEILING BELOW THE DUCT DETECTOR) AS REQUIRED BY THE CURRENT MECHANICAL CODE.

NOTE: SMOKE DETECTORS ASSOCIATED WITH SMOKE DAMPERS AND HVAC SHUTOFFS SHALL BE TESTED BY AN APPROVED TESTING AGENCY OR A QUALIFIED THIRD PARTY SPECIAL INSPECTOR. THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM AND SHALL NOT BE THE INSTALLING CONTRACTOR. A PROFESSIONAL ENGINEER SHALL SUBMIT A FINAL SIGNED AND SEALED REPORT TO THE MECHANICAL INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL.

NOTE: IF A COMPLETE FIRE ALARM DETECTION SYSTEM IS INSTALLED IN THE BUILDING THEN SMOKE DUCT DETECTORS ARE NOT REQUIRED PER THE CURRENT MECHANICAL CODE. AS LONG AS THE FIRE ALARM SYSTEM IS INTERCONNECTED TO THE MECHANICAL UNITS TO SHUT DOWN IN THE EVENT OF FIRE ALARM ACTIVATION IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE.

ELECTRICAL WORK -
MECHANICAL DIVISION SHALL FURNISH ALL MOTOR STARTERS REQUIRED FOR MECHANICAL EQUIPMENT, UNLESS INCLUDED AS AN INTEGRAL PART OF THE HVAC EQUIPMENT. F&I SUITABLE ENCLOSURE PER NEMA STANDARDS. ALL LOW VOLTAGE (24V) CONTROL WIRING OR THERMOSTATS AND OTHER CONTROL REQUIREMENTS TO BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR. ALL LINE VOLTAGE WIRING AND CONDUIT INCLUDING LOW VOLTAGE CONTROL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. SMOKE DETECTORS TO BE WIRED BY THE ELECTRICAL CONTRACTOR.

OUTSIDE AIR REQUIREMENTS -
LOCATE ALL OUTSIDE AIR INTAKE AIR OPENINGS A MINIMUM OF 10'-0" FROM PLUMBING VENTS, EXHAUST FANS, AND/OR GAS FLUE VENTS. F&I OUTSIDE AIR GRILLE (FILTER IF REQUIRED) AND OBD.

NOTE: MINIMUM OSA REQUIREMENTS SHALL COMPLY WITH THE CURRENT MECHANICAL CODE.

CONTRACTOR TO BALANCE OUTSIDE AIR TO CFM SHOWN ON OUTSIDE AIR SCHEDULE.
CONTRACTOR SHALL F&I A COPY OF AIR BALANCE TEST REPORT TO FIELD INSPECTOR PRIOR TO FINAL INSPECTION. VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AIR FLOW RATES REQUIRED BY THE CURRENT ENERGY CODE.

SYSTEM START-UP/AIR BALANCE -
BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL DEMONSTRATE THAT ALL APPARATUS IS FUNCTIONING PROPERLY IN ACCORDANCE WITH FACTORY START-UP RECOMMENDATIONS. AIR QUANTITIES SHALL BE BALANCED FOR EVEN TEMPERATURES THROUGHOUT CONTROLS AND/OR INTERLOCKS/SMOKE DETECTORS ADJUSTED, AND THE SYSTEM PLACED INTO OPERATION. AIR BALANCE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL LISTED WITH NEBB OR ABC. FURNISH THE FOLLOWING START-UP BALANCE INFORMATION IN TWO (2) COPIES TO THE OWNER/ARCHITECT FOR REVIEW PRIOR TO PROJECT CLOSE: SUPPLY/EXHAUST CFM AT EACH DIFFUSER/REGISTER (USING FLOW HOOD), OUTSIDE AIR QUANTITY TO EACH HVAC UNIT, DISCHARGE/RETURN AIR TEMPERATURES AT THE HVAC UNIT (FOR BOTH HEATING AND COOLING MODE), AND THE HVAC MOTOR AMP DRAW. FURNISH OWNER WITH WRITTEN CERTIFICATION FROM THE HVAC EQUIPMENT SUPPLIER(S) THAT ALL EQUIPMENT HAS BEEN INSTALLED PER MANUFACTURERS RECOMMENDATIONS. INCLUDE THE COST OF ANY ADDITIONAL, OPPOSED BLADE VOLUME DAMPERS, MOTOR SHEAVES, ETC. NECESSARY TO ACHIEVE AIR QUANTITIES LISTED. INCLUDE AN EXTENDED 90 DAY WARRANTY. DURING WHICH TIME THE ENGINEER MAY REQUEST A RECHECK OR RESETTING OF ANY AIR QUALITY, OR NOT MORE THAN TWO CHANGES OF NON-ADJUSTABLE SHEAVES TO OBTAIN DESIRED AIR QUANTITIES. CONTRACTOR SHALL MAKE ANY CHANGES IN PULLEYS, BELTS, OR ADDITIONAL DAMPERS REQUIRED FOR CORRECTED AIR BALANCE AS REQUIRED BY BALANCE AGENCY AT NO ADDITIONAL COST TO THE OWNER.

INSTRUCTIONS/ O&M MANUAL -
THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL FURNISH A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: EQUIPMENT CAPACITY (INPUT AND OUTPUT), CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE SCHEDULE, NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.

GUARANTEE -
ALL LABOR AND MATERIALS FURNISHED OR INSTALLED UNDER THIS SECTION SHALL CARRY A WRITTEN ONE (1) YEAR GUARANTEE BY THE MECHANICAL CONTRACTOR TO THE OWNER, COVERING MATERIALS AND WORKMANSHIP IN FULL. FURNISH EXTENDED FIVE (5) YEARS FACTORY PARTS AND LABOR WARRANTY ON ALL AIR CONDITONING COMPRESSORS. EXISTING HVAC EQUIPMENT, DUCTWORK AND/OR HVAC COMPONENTS REUSED IN THE JOB ARE NOT COVERED UNDER THIS WARRANTY.

MECHANICAL GENERAL NOTES

- PRIOR TO THE CONTRACTOR ORDERING OR PLACING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE MECHANICAL SYSTEM.
- FURNISH CLEARANCES AS PER MANUFACTURERS RECOMMENDATIONS.
- F&I EQUIPMENT IDENTIFICATION AS TO THE SPACE OR AREA SERVED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ACCESS TO ROOF INSTALLED MECHANICAL EQUIPMENT.
- PRIOR TO PENETRATION AND/OR INSTALLATION OF ANY ROOF TOP EQUIPMENT, CONTRACTOR IS TO COORDINATE WITH LANDLORD ROOF MONITOR. ALL ROOF WORK TO BE PERFORMED BY LANDLORD ROOF MONITOR CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- FIELD COORDINATE SIZE AND PLACEMENT OF DRAIN LINES REQUIRED FOR ROOFTOP HEAT PUMPS, EVAPORATIVE COOLERS, FURNACES, HUMIDIFIERS, ETC., WITH PLUMBING CONTRACTOR TO ROUGH-IN.
- F&I VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT SUPPORTED FROM STRUCTURE.
- NOTIFY GENERAL CONTRACTOR AND/OR ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
- ALL HVAC EQUIPMENT, INCLUDING EVAPORATIVE COOLERS, SHALL BE UL, ETL AND/OR AGA LISTED.
- F&I ALL EXHAUST AIR DUCTS WITH BACKDRAFT DAMPER.
- F&I AN ELECTRICAL INTERLOCK FOR MAKE-UP AIR UNITS AND ASSOCIATED EXHAUST FANS AS REQUIRED. SEE SCHEDULES.
- KITCHEN HOOD AND EXHAUST DUCTWORK TO CONFORM TO NFPA-96 STANDARDS AND THE CURRENT MECHANICAL CODE FOR DOMESTIC AND SECTION 506 FOR COMMERCIAL KITCHENS.
- SLOPE ALL HORIZONTAL EXHAUST DUCTS AT 1/4" PER FOOT TOWARDS HOOD INTAKE.
- F&I CLEAN-OUT ACCESS PANELS AS SHOWN HAVING A FIRE RESISTIVE RATING EQUAL TO SHAFT ENCLOSURE.
- EXTERNAL WELD ALL JOINTS AND SEAMS OF ALL KITCHEN EXHAUST DUCTS.
- MECHANICAL CONTRACTOR TO COORDINATE EXACT KITCHEN HOOD OPENINGS WITH KITCHEN CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- F&I FIRE DAMPERS AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOOR. FIRE DAMPER AND FIRE DAMPER INSTALLATION SHALL CONFORM TO LOCAL BUILDING AND MECHANICAL CODE REQUIREMENTS AND SMACNA STANDARDS. F&I WITH ACCESS DOOR AS REQUIRED.
- FLUE AND COMBUSTION AIR DUCTS PENETRATING ROOF STRUCTURE SHALL BE ENCLOSED IN ONE-HOUR SHAFT.
- ALL TEMPERATURE CONTROLS ARE TO BE TESTED, ADJUSTED AND CALIBRATED FOR PROPER OPERATION.
- MOUNT ALL THERMOSTATS AT 48" THROUGH 54" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER. F&I WITH LOCKING COVER AS REQUIRED BY THE ARCHITECT AND/OR OWNER. F&I WITH PROGRAMMABLE THERMOSTAT.
- INSTALL CLEANOUTS AT EVERY 90DEGREES TURN ON AIR CONDITIONING CONDENSATE DRAIN LINES.
- KEEP ALL FLUES, VENTS THROUGH ROOF AND EXHAUST DUCTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.
- ALL GAS VENTS SHALL BE U.L. LISTED TYPE 'B' DOUBLE WALL AS MANUFACTURED BY 'METALBESTOS' OR EQUIVALENT.
- COMBUSTION AIR DUCT OPENINGS TO BE COVERED WITH CORROSIVE RESISTANT SCREEN OF 1/4" MESH.
- CONTRACTOR SHALL BALANCE AIR DISTRIBUTION TO WITHIN 10% OF VALUES LISTED ON DRAWINGS. CONTRACTOR SHALL FURNISH TENANT WITH A COPY OF FINAL HVAC AIR TEST AND BALANCE REPORT FROM INDEPENDENT NEBB ORABC CERTIFIED CONTRACTOR.
- LIGHTING LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECT AND CONTRACTORS.
- UNDERCUT ALL DOORS TO ROOMS WHERE A SUPPLY DIFFUSER EXISTS BUT NO RETURN GRILLE IS PRESENT BY A MINIMUM OF 1". THIS WILL ALLOW FOR FREE MIGRATION OF RETURN AIR.
- COORDINATE OPENINGS FOR GRILLES, REGISTERS, DIFFUSERS, AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.
- F&I RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.
- INSULATE FIRST TEN FEET (10) OF DUCTWORK WITH 1" THICK INTERNAL ACOUSTICAL INSULATION. INSULATE ALL SUPPLY AND RETURN AIR DUCTS. EXTERIOR DUCTWORK AND OTHER DUCTWORK NOT WITHIN THE ENVELOPE OF THE AIR CONDITIONED SPACE.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS AND THE CURRENT MECHANICAL CODE. CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING AND MECHANICAL CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS 1 REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 8'-0" F&I RIGID ROUND DUCTWORK FOR RUNS EXCEEDING 8'-0" IN TOTAL LENGTH.
NOTE: FLEXIBLE DUCTWORK NOT ALLOWED AT EXPOSED LOCATIONS.
- TAPE ALL DUCT JOINTS WITH CANVAS AND ARABOL ADHESIVE.
- DUCTWORK CONSTRUCTION AND INSTALLATION INCLUDING SHEET METAL GAUGES, REINFORCEMENT, JOINT SEALING, AIR LEAKAGE AND DETAILS NOT SPECIFICALLY SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE FOR LOW VELOCITY DUCT CONSTRUCTION STANDARDS.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.
- TAKE-OFF FITTINGS SHALL BE BELL MOUTH SPIN-IN TYPE WITH QUADRANT DAMPER. F&I VOLUME DAMPER AT EACH AND EVERY SUPPLY AIR BRANCH DUCT TAKE-OFF.
- IF ABOVE CEILING DUCTWORK IS FABRICATED OF SHEET METAL, HANGERS SHALL BE INSTALLED AS REQUIRED BY THE CURRENT MECHANICAL CODE.
- MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES.
- DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBIT. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED, AND A MAXIMUM OF 1/4" RATIO FOR RECTANGULAR DUCTS SHALL ALSO BE MAINTAINED. DUCT SIZES SHOWN ARE 'CLEAR INSIDE' DIMENSIONS.
NOTE: CONTRACTOR OPTION TO USE ROUND DUCT WITH THE SAME CUBIC INCH VOLUME.
- EXHAUST DUCTS SHALL BE 26 GAUGE GALVANIZED STEEL. SEE MECHANICAL EQUIPMENT SCHEDULE OR FLOOR PLAN FOR SIZES AND TERMINATION POINT.
- ALL 'FACTORY MADE' DUCTS MUST BE CLASS 'O' OR CLASS '1'.
- AIR CONDITIONING UNITS SERVING EVAPORATIVE COOLERS/MAKE-UP AIR UNITS SHALL BE FABRICATED FROM ALUMINUM SHEETS AND HAVE NO DUCT LINER.
- ALL PENETRATIONS THROUGH DRAFT-STOPS TO BE SEALED.
- FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, TRANSPORTATION COSTS, RIGGING, FEES, PERMITS, CERTIFICATES OF INSPECTION, ETC., NECESSARY OR REASONABLE, AS REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
- UPON COMPLETION AND TESTING OF AIR CONDITIONING EQUIPMENT, THE CONTRACTOR SHALL REPLACE ALL CONSTRUCTION AIR FILTERS WITH NEW FILTERS OF THE SIZED SPECIFIED BY THE MANUFACTURER.
- THE MECHANICAL CONTRACTOR SHALL ADEQUATELY SUPPORT, ERECT AND BALANCE ALL MATERIALS AND EQUIPMENT IN CONFORMANCE WITH LOCAL CODES AND HIGH STANDARDS OF CONSTRUCTION PRINCIPLES AND PRACTICES.
- THE CONTRACTOR SHALL DO ALL THE NECESSARY CUTTING OF WALLS AND CEILING, NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT AND THE ENGINEER. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BRING ALL SURFACES (FLOOR, WALLS AND CEILINGS) BACK TO ORIGINAL CONDITION AFTER MODIFICATIONS HAVE BEEN MADE.
- INSTALL A COMPLETE AND WORKING MECHANICAL SYSTEM IN STRICT ACCORDANCE WITH THE CURRENT MECHANICAL CODE AND SMACNA STANDARDS.
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT, AIR DEVICES, PIPING, DUCTWORK, ETC., WITH PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND GENERAL CONTRACTORS DRAWINGS.
- WORKMANSHIP: ALL EQUIPMENT APPURTENANCES, DEVICES AND PIPING SHALL BE INSTALLED IN CONFORMANCE WITH THE PROVISIONS AND INTENT OF THE CURRENT MECHANICAL CODE.
- CONTRACTOR SHALL CHECK FOR PROPER OPERATION AND INSTALLATION, AND SHALL THOROUGHLY EXAMINE, CLEAN AND INSPECT ALL EXISTING EQUIPMENT PRIOR TO COMMENCING WORK. NOTIFY BUILDING OWNER OF ANY DYSFUNCTIONAL EQUIPMENT IMMEDIATELY.
- CONTRACTOR SHALL INSURE THAT ALL EXISTING MECHANICAL EQUIPMENT IS IN SATISFACTORY WORKING CONDITION SO HE MAY MAKE PROVISIONS IN HIS BID TO ACCOMMODATE ANY REPAIRS AND/OR REPLACEMENTS

REQUIRED.

- CONTRACTOR MAY, AT HIS DISCRETION, REUSE ANY/ALL EXISTING EQUIPMENT NOT SPECIFICALLY NOTED TO BE REMOVED OR ABANDONED AS LONG AS SUCH EQUIPMENT SATISFACTORILY MEETS THE DESIGN REQUIREMENTS SET FORTH IN THESE DOCUMENTS.
- SIZES SHOWN ON AIR DEVICES ARE MIN. SIZE REQUIRED. CONTRACTOR SHALL VERIFY ALL AIR DEVICE SIZES AND REPLACE WITH NEW SIZE AS NECESSARY. BALANCE ALL AIR DEVICES TO CFM NOTED OR AS REQUIRED TO FURNISH EVEN TEMPERATURES.
- VERIFY EXACT SIZE, LOCATION, ROUTING, ETC., OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, THERMOSTATS, SENSORS, PIPING, ETC., WHICH ARE TO BE REMOVED, REPLACED, ABANDONED, REWORKED, ETC., AS REQUIRED AND AS SHOWN ON DRAWINGS.
- ALL SALVAGEABLE ITEMS SHALL BE RETURNED TO THE OWNER. MECHANICAL CONTRACTOR SHALL RETURN ALL HVAC EQUIPMENT NOTED TO BE REMOVED UNDER THIS CONTRACT TO BUILDING OWNER.
- PROJECT INVOLVES WORK IN AN EXISTING FACILITY. DRAWING IS DIAGRAMMATICAL AND IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING. CONTRACTOR SHOULD BE AWARE THAT EXISTING CONDITIONS MAY CONFLICT WITH PLANS. DURING DEMOLITION/CONSTRUCTION WORK, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND BE PREPARED TO OFFSET OR REROUTE DUCTS WHERE NECESSARY.
- ALL PATCHING AND/OR REPAIRING OF THE EXISTING WALLS, FLOORS, CEILINGS, ETC. DAMAGED DUE TO REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, AND CONDITION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., PRIOR TO SUBMITTING A BID FOR DOING WORK ON THIS PROJECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- BEFORE BEGINNING ANY CUTTING OR DEMOLITION WORK, CONTRACTOR SHALL CAREFULLY SURVEY EXISTING WORK AND EXAMINE ALL DRAWINGS TO DETERMINE EXTENT OF THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE DUE TO EXISTING WORK TO REMAIN IN PLACE, TO BE RE-USED, OR TO REMAIN PROPERTY OF THE OWNER, AND ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL CAREFULLY COORDINATE WORK OF THIS SECTION WITH OTHER WORK AND CONSTRUCT AND MAINTAIN SHORING, BRACING, AND SUPPORTS AS REQUIRED.
- WHERE PIPING, DUCTWORK AND/OR EQUIPMENT IS TO BE REMOVED, REMOVE ALL ASSOCIATED HANGERS, SUPPORTS, INSULATION, ETC. VALVES SHALL REMAIN WHERE APPROPRIATE AND/OR ADDED WHERE REQUIRED.
- NEW HVAC EQUIPMENT AND AIR DEVICES ARE REQUIRED TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY MANUFACTURER AND MODEL NUMBER OF EXISTING HVAC EQUIPMENT AND EXISTING AIR DEVICES AND USE SAME TYPE FOR NEW AND RENOVATED CONSTRUCTION.
- CONTRACTOR MAY BE REQUIRED TO REPLACE EXISTING AIR DEVICE WITH NEW AIR DEVICE AS MAY BE REQUIRED BY DIFFERENT CEILING, DIFFERENT CFM REQUIREMENTS, DAMAGED AIR DEVICE, ETC.
- CONTRACTOR SHALL VERIFY IN FIELD THAT ALL EQUIPMENT, DUCTWORK, AIR DEVICES, ETC. FOR EACH SYSTEM SERVE THE SAME ZONE AND THAT ANY ONE SYSTEM DOES NOT SERVE MORE THAN ONE TENANT. WHERE A CONFLICT OCCURS, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED AND HIS/HER DECISION SHALL BE FINAL.
- CONTRACTOR IS TO MAKE ARRANGEMENTS WITH ANY EXISTING TENANTS PRIOR TO CONSTRUCTION FOR ALLOWABLE CONSTRUCTION TIMES WITHIN THEIR SPACE.
- NEW EQUIPMENT AND AIR DEVICES ARE REQUIRED TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY MANUFACTURER AND MODEL NUMBER OF EXISTING EQUIPMENT AIR DEVICES AND USE SAME TYPE FOR NEW AND RENOVATED CONSTRUCTION.
- MANUFACTURERS AND MODEL NUMBERS LISTED ARE INTENDED TO ESTABLISH A MINIMUM QUALITY AND PERFORMANCE LEVEL. SUBSTITUTIONS WILL BE EVALUATED UPON REQUEST.
- ALL ROOF MOUNTED EQUIPMENT WITHIN 10 FT OF THE ROOF LINE SHALL BE FULLY SCREENED BY PARAPET WALLS (OR APPROVED SCREENING) EQUAL TO OR GREATER THAN THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE PERMANENTLY MARKED IN AN APPROVED MANNER (SUNLIGHT RESISTANT) THAT UNIQUELY IDENTIFIES THE APPLIANCE AND THE AREA IT SERVES. AS REQUIRED BY THE CURRENT MECHANICAL CODE.
- HVAC SYSTEM SHOWN IS BASED ON PREVIOUS T.I. DRAWINGS AND NOT ACTUAL FIELD MEASUREMENTS OR AS-BUILT DRAWINGS.
- REMOVE ALL EXISTING HVAC DUCTWORK AND DIFFUSERS AND REPLACE WITH NEW AS SHOWN AND AS REQUIRED.

Project No: 5401 / Store #1684

Dominos Pizza Bakery Store
Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:

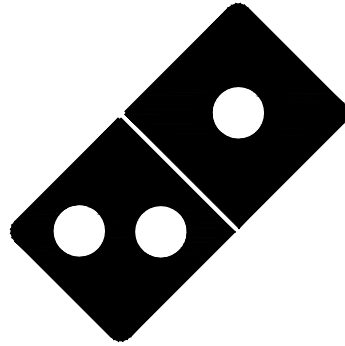
MECHANICAL
GENERAL NOTES AND
SPECIFICATIONS

SHEET NUMBER:

M6.0



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
P 503.552.9079
F 503.241.7055
WWW.GNICHARCH.COM



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PLUMBING LEGEND			
SYMBOL		ABBREVIATION	DESCRIPTION
EXISTING	NEW		
		ACD	AIR CONDITIONING CONDENSATE DRAIN
		CW	COLD WATER
		DHW	DOMESTIC HOT WATER (110°F)
		DHW (140)	DOMESTIC HOT WATER (140°F)
		DHWR	DOMESTIC HOT WATER RETURN
		G	NATURAL OR LIQUIFIED PETROLEUM GAS
		S	SANITARY
		S	SANITARY BELOW FLOOR/GRADE
		ST	STORM DRAIN
		V	VENT LINE

SYMBOL	ABBREVIATION	DESCRIPTION
	POC	POINT OF CONNECT TO EXISTING
	UP / DOWN	PIPE UP / DOWN
	FS	FLOOR SINK
	FD	FLOOR DRAIN
		FIXTURE TRAP W/ VENT CONN.
	HB / WHT	HOSE BIBB / WALL HYDRANT
	SOV / BV / GV	SHUT-OFF, BALL OR GATE VALVE
	SOV	SHUT-OFF VALVE IN VALVE BOX
	WM	WATER METER IN BOX
	VTR	VENT THRU ROOF
	CO / FCO / GCO	CLEANOUT / FLOOR / GRADE
	CO / FCO / GCO	2-WAY CLEANOUT / FLOOR / GRADE
	WCO	WALL CLEANOUT
	POP	PUMP OUT PORT
		PIPE TRANSITION
		FLOW DIRECTION

GENERAL NOTES:

- ALL PLUMBING FIXTURES SHALL BE LABELED AS MEETING EPA WATER SENSE (WWW.EPA.GOV/WATERSENSE).
- LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- WHERE POSSIBLE, COMBINE PLUMBING VENTS TOGETHER SO AS TO MAKE THE MINIMUM NUMBER OF ROOF PENETRATIONS.
- WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL CENTER ON THE FINAL LAYOUT OF TOILET PARTITIONS AND BE INSTALLED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- ALL FLUE VENTS AND VTRS THROUGH ROOF SHALL BE A MINIMUM OF 10' FROM ALL AIR INTAKES AND EVAP. COOLERS.
- CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM ARCHITECT.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTION OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIP. ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- COPPER POTABLE WATER PIPING VELOCITY: FOR PIPE SIZES < 2½" PIPE VELOCITY SHALL NOT TO EXCEED 6 FPS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED PRIOR TO MAKING UP OR INSTALLING ANY OF THE NEW SANITARY SYSTEM.
- FLASHED AND COUNTERFLASH ALL VTRS, PIPES AND FLUES THRU ROOF. MAKE PENETRATIONS WATER TIGHT.
- WALL CLEANOUTS MAY BE SUBSTITUTED FOR FLOOR CLEANOUTS AT CONTRACTORS DISCRETION.

FIELD VERIFICATION NOTES:

- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED.
 - PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING PLUMBING EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
 - SIZE AND LOCATION OF ALL EXISTING WASTE, GREASE WASTE, VENT, GAS AND WATER PIPING.
- ALL REFERENCES IN THESE DRAWINGS TO EXISTING EQUIPMENT, FIXTURES AND PIPING TO BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE BID. THE BID SHALL INCLUDE ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTOR BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- PLUMBING ROUTINGS BASED ON OWNER'S SCHEMATICS OF LOCATION OF EXISTING FIXTURES AND SHELL DRAWINGS. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ACTUAL LOCATION OF SUPPLY LINES AND MAKING APPROPRIATE ADJUSTMENTS TO ACTUAL CONDITIONS IN THE FIELD.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW SANITARY LINES ARE TO BE CONNECTED BEFORE SUBMITTING THE BID.
- PRIOR TO CONSTRUCTION VERIFY THE LOCATION OF THE HVAC/WALK-IN CONDENSATE FLOOR SINK. IF SLOPE AND DISTANCE OR IF IT IS INFEASIBLE TO DISPOSE OF WALK-IN COOLER CONDENSATE. USE A CONDENSATE PUMP.

NATURAL GAS DOMESTIC HOT WATER HEATER SCHEDULE

MARK	MAKE	MODEL NO.	GAS (MBH)		FLOW RATE		EFF (%)	WATER TEMP (°F)			CONNECTION SIZES (IN)						ELECTRICAL					OPER. WEIGHT (LBS)	REMARKS	
			INPUT	OUTPUT	MIN (GPM)	MAX (GPM)		EWT	LWT	STOR	CW	HW	GAS	COND DRAIN	FLUE	COM B AIR	V/PH/ HZ	NORMA L	STANDBY	FREEZE PROT.	MAX CURRENT			FUSE
IVH-1	RINNAI	RUR199I (REU-NP3237FF-US)	199	195	0.26	9.8	98%	40	140	---	3/4	3/4	3/4	3/4	4	4	120/1/60	205 W	3 W	150 W	8 AMPS	10 AMPS	73	NOTES 1, 2, 3 & 4
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NOTES:

- F&I WITH FORCED AIR COMBUSTION UNIT, 12 V DC TEMPERATURE CONTROLLER, BUILT-IN RECIRCULATION PUMP, MC-91-2US CONTROLLER, 3 WATT ANTI-FROST PROTECTION, IPEX CONCENTRIC 4" VENT KIT. UNIT ACTIVATION FLOW RATE 0.4 GPM. HEATER TO BE CONFIGURED FOR CROSSOVER RECIRCULATION OPERATION.
- BASED UPON AN ENERGY FACTOR FOR NATURAL GAS = 0.95. UNIT TO CONFORM TO DOE 10 CFR PART 430.
- USE FEMALE UNTHREADED, SOCKETED ENDS, LONG TURN (SWEEP) ELBOWS FOR ALL CHANGES IN FLUE PIPE & COMBUSTION AIR PIPE DIRECTION CHANGES. F&I WITH FACTORY CONDENSATE NEUTRALIZER SIZED FOR UNIT.
- USE UBBINK POLUPROPYLENE CONCENTRIC VENT , TWIN PIPE PVC / CPVC PIPING SYSTEM OR CENTROTERM POLUPROPYLENE TWIN PIPE ADAPTOR KIT.

ABBREVIATIONS

ABBREV.	DESCRIPTION
A/C	ABOVE CEILING
A/G	ABOVE GRADE
ACD	CONDENSATE DRAIN
AFF	ABOVE FINISHED FLOOR
B/F	BELOW FLOOR
B/G	BELOW GRADE
BP	BACKFLOW PREVENTER
COTG	CLEANOUT TO GRADE
CW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DU	DRAINAGE FIXTURE UNITS
F&I	FURNISH AND INSTALL
FCO	FLOOR CLEANOUT
FF	FINISHED FLOOR
GC	GAS COCK
GPM	GALLONS PER MINUTE
MPG	MEDIUM PRESSURE GAS PIPING
PRV	PRESSURE RELIEF VALVE
RD	ROOF DRAIN
RWL	RAIN WATER LEADER
SD	STORM DRAIN
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WU	POTABLE WATER FIXTURE UNITS

PLUMBING FIXTURES SCHEDULE

FIXTURE	DESIGNATION	MFR. AND MODEL NUMBER	FITTING AND CAPACITY	ACCESSORIES/REMARKS	COLD WATER	HOT WATER	WASTE	VENT SIZE
KITCHEN SINK	KS-1	AERO 3 COMPARTMENT SINK, 87.25"W X 27"D x 39.5"H, INCLUDING 7" BACKSPLASH, 14 GAUGE SS SINK MODEL# 2F3-2116-18LR. BOWL SIZE 16"W X 21"D X 14"D. UNIT DRILLED FOR FAUCET 8" O.C. AND 18" DRAIN BOARDS ON BOTH ENDS.	F&I AMERICAN STANDARD 4298.152 FAUCET W/AERATOR, ECONOMY SPRAYER, WALL BRACKET & ADD-ON FAUCET	F&I W/ DEARBORN 3785A STRAINER, WASTE LEVER; BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS; E29 AERATOR; RISER TAILPIECE (AND MCGUIRE 8089 P-TRAP). SEE NOTE 2.	¾"	¾"	2"	1½"
MOP SINK	MS-1	MUSTEE 63P	ROUGH CHROME FINISHED FAUCET W/WALL BRACKET AND 30 INCH HOSE.	F&I W/VACUUM BREAKER, ¾" HOSE CONNECTION ON SPOUT/OUTLET AND MOP HANGER. SEE NOTE 2	¾"	¾"	3"	2"
HAND SINK	HS-1,2	AERO SS HAND SINK MODEL# HSF2S W/BACKSPLASH AND SPLASH GUARDS ON BOTH SIDES	FAUCET TO BE CHROME FINISHED W/KNEE CONTROLS AND AERATOR.	CW & DHW WATER HAMMER ARRESTERS; BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS AND E29 AERATOR; RISER TAILPIECE AND P-TRAP & ARM W/CLEANOUT AND ESCUTCHEON. SEE NOTES 1 & 2.	½"	½"	2"	1½"
WATER CLOSET	WC-1	ZURN Z5555-K, FLOOR MOUNTED, ADA COMPLIANT, ELONGATED BOWL SIPHON JET WATER CLOSET.	FLUSH TANK, 1.28GAL PER FLUSH	CHURCH SEAT 9500C, FRONT OPEN SEAT AND BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS. SEE NOTE 2.	½"	---	3"	2"
LAVATORY	LV-1	VITROUS CHINA, ADA COMPLIANT LAVATORY WITH 4" CENTERS. ZURN MODEL # Z5340	ZURN Z81104-XL-3M FAUCET ON 4" CENTERS W/4" WRIST BLADES	SEE NOTES 1, 2, 3 & 4.	½"	½"	1¼"	1¼"
FLOOR SINK	FS-1	ZURN FD-1749	FOR FINISHED FLOOR AREA	12" SQ TOP X 4" DEEP. SEE NOTES 6 & 7	---	---	2"	1½"
FLOOR DRAIN	FD-1	ZURN FD1-B-PB FLOOR DRAIN WITH 5" ROUND POLISHED BRASS TOP & ABS BODY.	FOR FINISHED FLOOR AREA	F&I WITH OR ASSE 1072 APPROVED TRAP SEAL AND HUB DRAIN ACCESSORY. SEE NOTES 5 & 6 (2" THROUGH 4").	---	--	2"	1½"
GREASE INTERCEPTOR	GT-1	BIG DIPPER W-350-IS	35 GPM 85.2 LBS CAPACITY	2.5 GA INTERNAL STRAINER BASKET	---	---	3"	1"
CLOTHES WASHER BOX	CWB-1	GUY GRAY #BB-200	F&I WITH CW & DHW WATER HAMMER ARRESTER	QUARTER TURN ½" SWEAT VALVES. STANDPIPE TO BE A MAXIMUM OF 30".	¾"	¾"	2"	1½"

NOTES:

- F&I W/ ½" WATTS LFMMV--**--M1 TEMPERATURE MIXING VALVE SET AT 110°F OUTPUT.
- SHUT-OFF VALVES ON UPSTREAM SIDE OF CW & DHW LINES ABOVE CEILING.
- BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS W/FLEXIBLE SUPPLIES; Z8700 P-TRAP & Z8746-PC GRID STRAINER.
- Z8946-3-NT ADA TRAP AND ARM W/CLEANOUT AND ESCUTCHEON; AND STOP & SUPPLY PROTECTORS FOR OFFSET GRID STRAINER.
- 5" ROUND TOP, WITH CLAMPING COLLAR, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, Z1012-FC DEEP-SEAL TRAP ADJUSTABLE C.I. FLOOR CLEANOUT & PLUG, AND ASSE 1072 APPROVED TRAP SEAL.
- MODEL P2400X GREEN DRAIN WATERLESS TRAP SEAL.
- WITH ACID RESISTANT BODY; NICKEL BRONZE DOME STRAINER; CLAMPING COLLAR; AND NON-TILT LOOSE GRATE WITH 1/2" SQUARE OPENINGS. ½ OR 3/4 GRATE AS REQUIRED BY SIZE AND NUMBER OF PIPES DISCHARGING TO UNIT.

WATER PRESSURE CALCULATION

ASSUMED AVAILABLE STATIC PRESSURE	65.0 PSI
PRESSURE DROP THRU METER	6.0 PSI
PRESSURE DROP @ BACKFLOW PREVENTER	10.0 PSI
AVAILABLE PRESS. ON HOUSE SIDE OF METER	49.0 PSI
ESTIMATED PIPE LENGTH - METER TO BLDG WALL	150 FT
EQUIV. LENGTH - METER TO BUILDING WALL	165 FT
P.D. - METER TO BUILDING WALL @ 6 PSIG/100 FT	9.9 PSI
PRESSURE AVAILABLE AT BUILDING WALL	39.1 PSI
PSI REQ. AT END OF THE LINE	20.0 PSI
PRESS. DROP @ THROUGH WATER HEATER	3.0 PSI
PRESS. DROP DUE TO PIPE ELEVATION CHANGES	4.3 PSI
REMAINING PRESSURE	11.8 PSI
SYSTEM LENGTH	82 FT
EQUIVALENT PIPE LENGTH	135 FT
ALLOWABLE LOSS/100FT OF PIPE: REMAINING PRESS. X 100FT EQ. LENGTH OF PIPE	8.70 PSI

FIXTURE UNITS DOMESTIC WATER

FIXTURES	AMNT.	INDIVIDUAL FIXTURE UNITS				CUMMULATIVE FIXTURE UNITS		
		TOT CW	CW PER FIXT	DHW PER FIXT	CW MAIN	CW	DHW	
LAVATORY (LV-1)	1	2.0	1.50	1.50	2.00	1.50	1.50	
MOP SINK (MS-1)	1	3.0	2.25	2.25	3.00	2.25	2.25	
HAND SINK (HS-1,2)	2	2.0	1.50	1.50	4.00	3.00	3.00	
WATER CLOSET (WC-1)	1	2.0	2.00	--	2.00	2.00	--	
CLOTHES WASHER BOX (CWB-1)	1	3.0	2.25	2.25	3.00	2.25	2.25	
KITCHEN (KS-1)	1	4.0	3.00	3.00	4.00	3.00	3.00	

TOTAL	18.00	14.00	12.00
GPM	18.8	17.0	16.0

NOTES AND FIELD CONDITIONS:

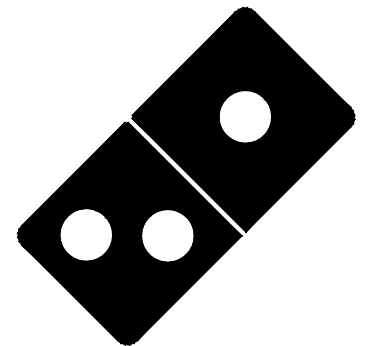
- CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF (E) CW PIPE TO BE AS INDICATED THESE DRAWINGS.
- CONTRACTOR TO FIELD VERIFY AVAILABLE PRESSURE AT THE POINT OF CONNECTION (POC) TO THE CW SERVICE. POC TO CW PIPE TO BE AS INDICATED IN THESE PLANS AT THE BUILDING WALL.
- CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE AND PIPE LENGTHS PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN OR ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. IF PRESSURE EXCEEDS 80 PSI, F&I A PRESSURE REDUCING VALVE.

POTABLE WATER PIPE SIZING

	PIPE SIZE (IN)	FLUSH TANK F.U.	FLUSH VALVE F.U.	FLOW (GPM)
	½	1.2	--	3.3
	¾	4.9	--	9.3
	1	12	--	16
	1¼	29	8	23
	1½	60	16	32
	2	250	180	58



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM



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Pizza Theater Tenant Improvement
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for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:

PLUMBING LEGEND,
CALCULATIONS
AND SCHEDULES

SHEET NUMBER:

P1.0

PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS WITH ALL TRADES. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

ALL PIPE PENETRATIONS THROUGH BURIED STRUCTURAL ELEMENTS SHALL HAVE A PIPE SLEEVE AND SHALL BE MADE WATERTIGHT WITH A MODULAR SEAL SUCH AS LINKSEAL.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERED TO BY THESE DOCUMENTS ARE TO BE CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.

FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

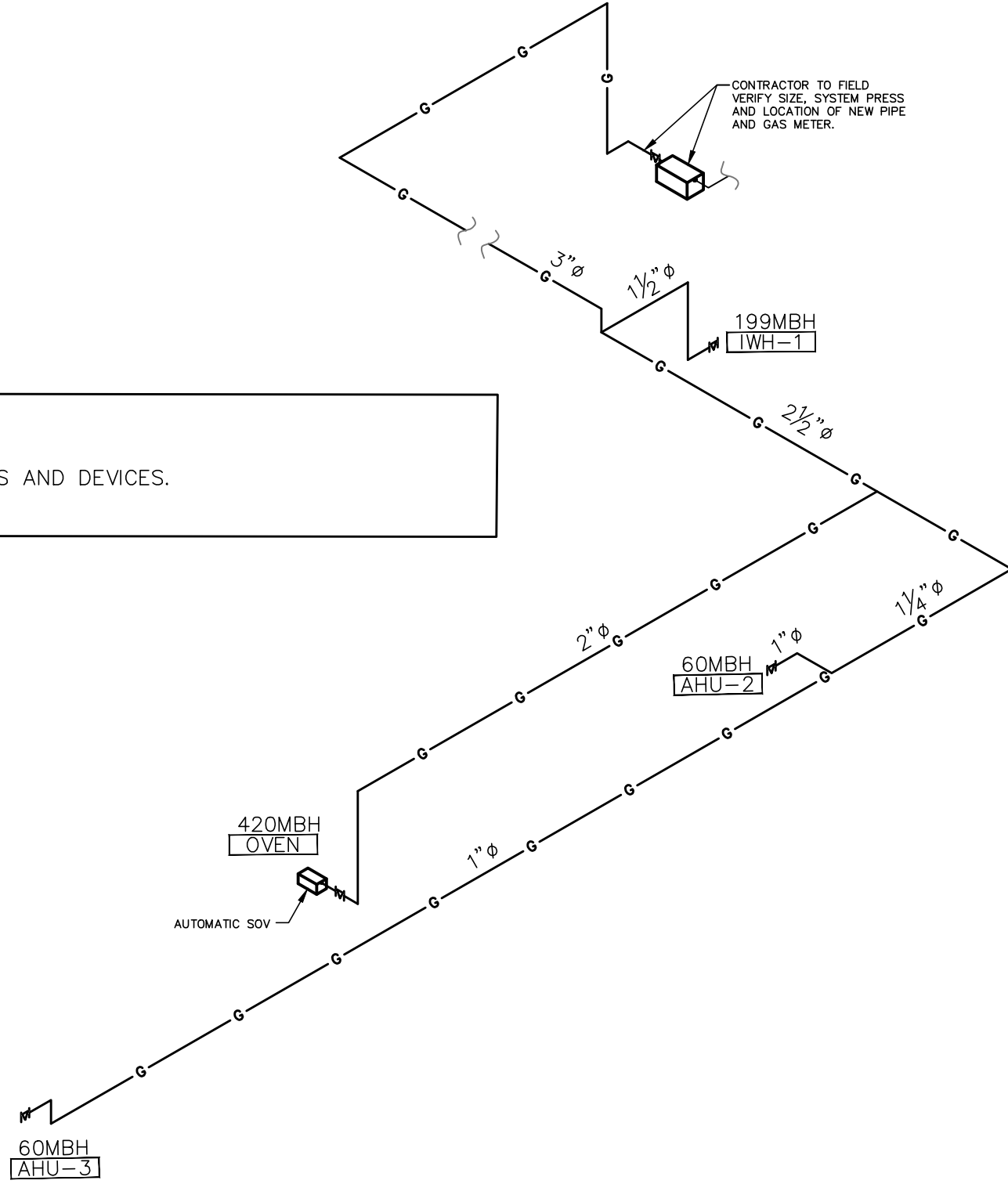
FOR DOMESTIC WATER SYSTEMS ONLY, PEX PIPING IS AN ACCEPTABLE SUBSTITUTION FOR COPPER TUBING UNLESS OTHERWISE NOTED.

LOW PRESSURE NATURAL GAS CALCULATION

APPLIANCES	PIPE LENGTH (FT)	DEMAND (MBH)
WH-1		199
OVEN		420
AHU-2		60
AHU-3		60
TOTAL		739
PIPE LENGTH FROM DEMISING WALL TO METER/PRV ASSEMBLY	150	
PIPE FITTINGS EQUIV. LENGTH FROM BLDG TO METER/PRV	225	
LENGTH OF PIPE IN TENANT SPACE	58	
EQUIV. LENGTH OF PIPE IN OR ON THE BUILDING	87	
TOTAL EQUIVALENT SYSTEM PIPE LENGTH	312	

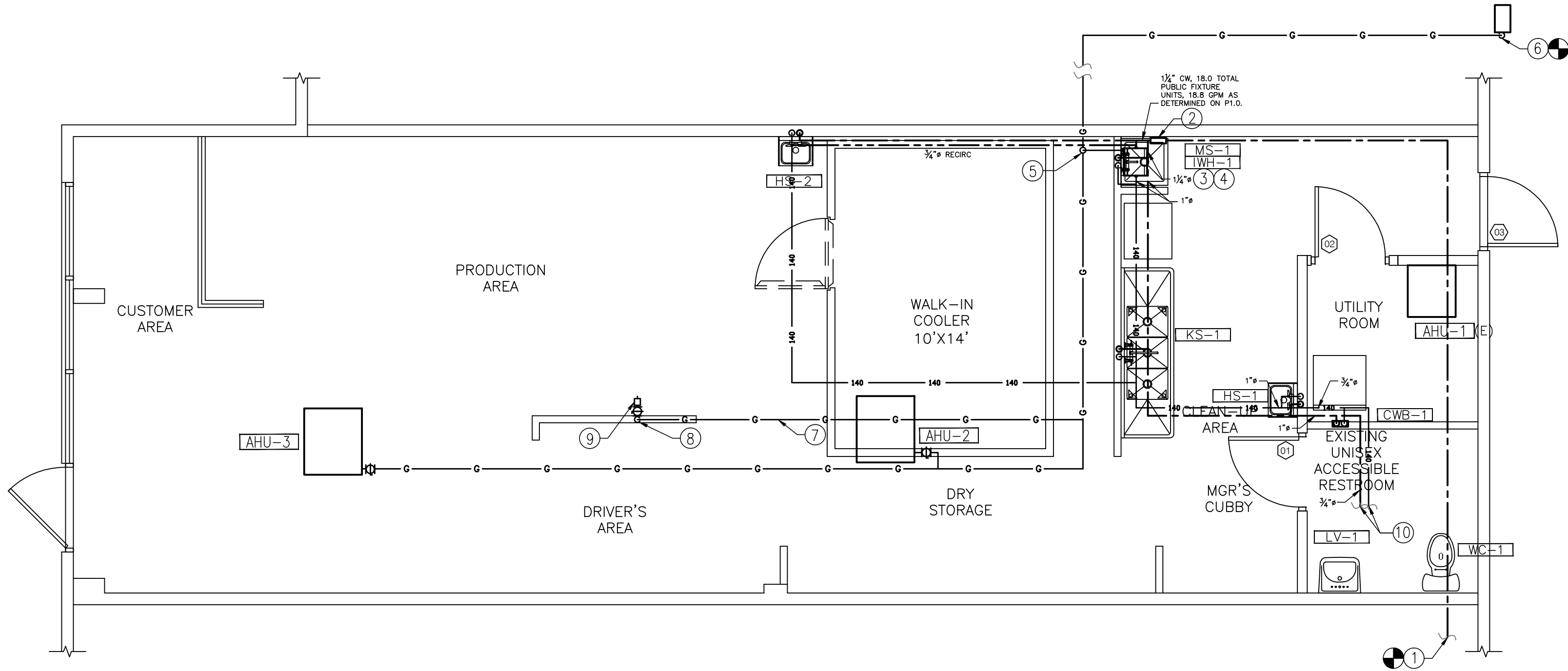
- NOTES:
- PIPE SIZING BASED ON 2018 IFGC, TABLE 402.4(1) PIPE SIZING FOR PRESSURE LESS THAN 2 PSI, PRESSURE DROP OF 0.3" W.C. AND SPECIFIC GRAVITY OF 0.60.
 - CONTRACTOR SHALL VERIFY ACTUAL GAS PRESSURE AVAILABLE, PIPE LENGTHS, METER/PRV ASSEMBLY SIZE AND LOCATION PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN LISTED ABOVE, ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. COORDINATE WITH LOCAL UTILITY.

GENERAL GAS PIPING NOTES:
A. F&I UNIONS AT ALL VALVES AND DEVICES.



NATURAL GAS SCHEMATIC DIAGRAM

NO SCALE



POTABLE WATER & GAS PLUMBING PLAN

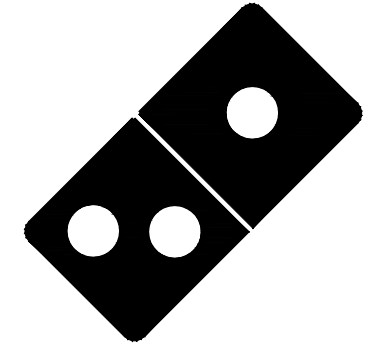
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- ROUTE COLD WATER PIPING TO CONNECT TO NEW SERVICE WATER PIPING. FIELD VERIFY SIZE, LENGTH OF RUN FROM BUILDING WALL TO METER/PRV ASSEMBLY, CAPACITY, WATER PRESSURE AND LOCATION OF THE METER/PRV ASSEMBLY AND PIPE. ESTIMATED LENGTH OF PIPE FROM THE BUILDING WALL TO THE METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. F&I NEW METER AS REQUIRED.
- F&I WATTS LF009 BACKFLOW PREVENTER ABOVE MOP SINK. ROUTE RELIEF PIPE TO DISCHARGE ABOVE TO MOP SINK WITH 1" AIR GAP.
- ALL DHW AND 8 FEET OF CW PIPING CONNECTED TO THE WATER HEATER SHALL BE INSULATED WITH 1" THICK INSULATION. INSULATION TO HAVE AN "R" RATING OF R=4.2 FOR PIPE SIZES < 1 1/4". PIPE SIZES >1" SHALL BE INSULATED WITH 1-1/2" THICK INSULATION HAVING AN "R" RATING NOT LESS THAN R=6.
- SEE MECHANICAL SHEETS FOR VENT & COMBUSTION AIR.
- GAS PIPE UP THRU ROOF. RUN GAS BACK TO GAS METER. SEE GAS PIPING SCHEMATIC DIAGRAM.
- RUN NEW GAS LINE BACK TO NEW GAS METER/PRV ASSEMBLY (METER BANK). FIELD VERIFY SIZE, LENGTH OF RUN FROM THIS POINT TO METER/PRV ASSEMBLY; PIPE AND METER/PRV ASSEMBLY CAPACITY; GAS PRESSURE INLET AND OUTLET OF GAS METER/PRV ASSEMBLY; AND LOCATION OF THE METER AND PIPE. ESTIMATED LENGTH OF PIPE FROM THIS POINT TO METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. CONNECT TO NEW AND/OR EXISTING METER/PRV ASSEMBLY.
- OVEN DEDICATED GAS LINE.
- GAS LINE TO DROP DOWN TO OVEN MANIFOLD.
- AUTOMATIC SHUT OFF VALVE TO CUT GAS SUPPLY TO OVEN WHEN HOOD FIRE PROTECTION SYSTEM ACTIVATES.
- CONNECT WATER LINES TO EXISTING BATHROOM FIXTURES.



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
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F: 503.241.7055
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REV:	DATE:	DESCRIPTION:

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POTABLE WATER &
GAS PLUMBING PLAN

SHEET NUMBER:

P2.0

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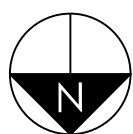
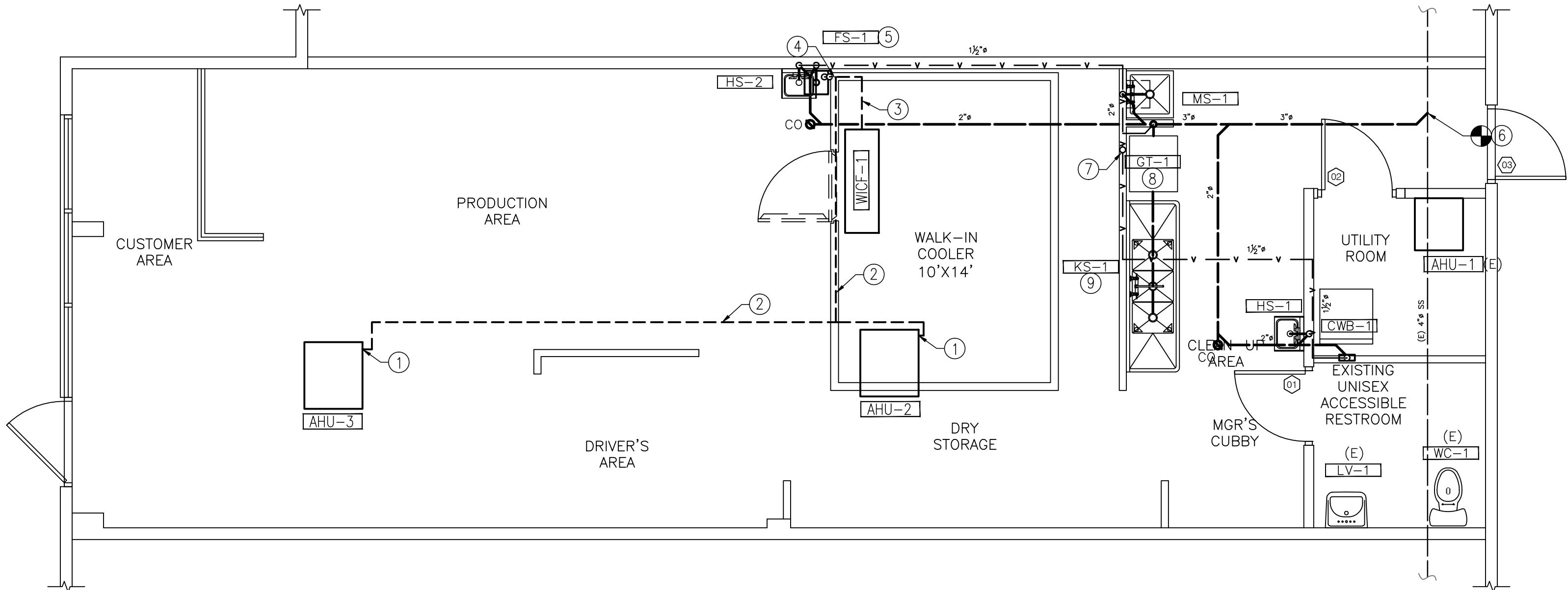
SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.
FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

GREASE TRAP SIZING				
FIXTURE CAPACITY	KITCHEN SINK			
	WIDTH	LENGTH	HEIGHT	VOLUME IN ³
	16	21	14	4704
	EFFECTIVE VOLUME (VOL*0.75/231) GALLONS			15.27
	3-COMPARTMENT VOLUME			45.82
	2 MINUTE FLOW PERIOD			22.91
TOTAL FLOW THRU GREASE TRAP			22.91	

SANITARY SEWER FIXTURE UNITS				
FIXTURES	AMT.	DMFU EA	SUB-TOTAL (DMFU)	
LAVATORY (LV-1)	1	1	1	
MOP SINK (MS-1)	1	2	2	
HAND SINK (HS-1,2)	2	2	4	
WATER CLOSET (WC-1)	1	4	4	
FLOOR SINK (FS-1)	1	2	2	
CLOTHES WASHER BOX (CWB-1)	1	2	2	
KITCHEN (KS-1)	1	2	2	
TOTALS	8		17	

KEYED NOTES:

1. ACD PIPE DOWN FROM EQUIPMENT.
2. ¾" ACD PIPE TYPICAL U.O.N.
3. 1" ACD PIPE.
4. 1¼" ACD PIPE.
5. TERMINATE ACD PIPE OVER FS-1 WITH A MINIMUM AIR GAP OF 2X THE DIAMETER DRAINING PIPE.
6. ROUTE SANITARY PIPING TO CONNECT TO EXISTING SANITARY MAIN. VERIFY EXACT LOCATION.
7. 2½" VENT UP THRU ROOF TO 4" VTR. MAINTAIN MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES.
8. GREASE INTERCEPTOR. SEE SHEETS P1 & P4
9. KITCHEN 3-COMP SINK GREASE LINE TO DISCHARGE DIRECTLY TO THE GREASE TRAP.

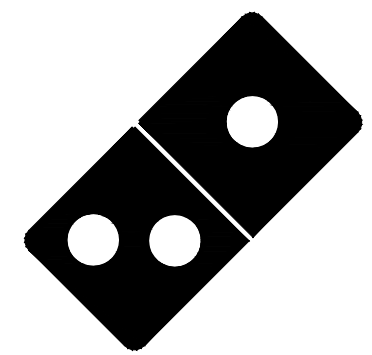


SANITARY SEWER PLUMBING FLOOR PLAN

SCALE: 1/4" = 1'-0"



1001 SE SANDY BLVD., SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
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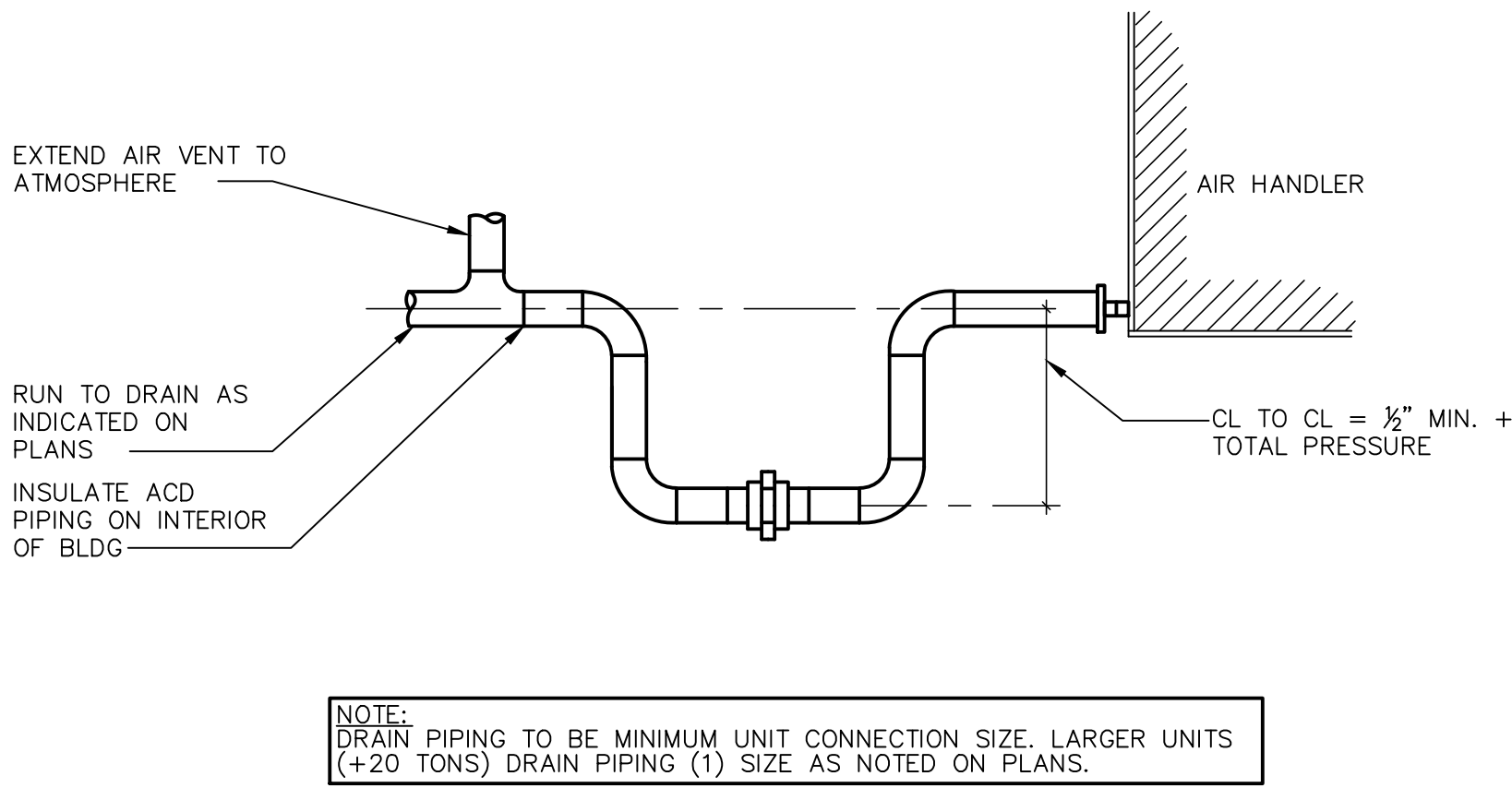
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SANITARY SEWER
PLUMBING PLAN

SHEET NUMBER:

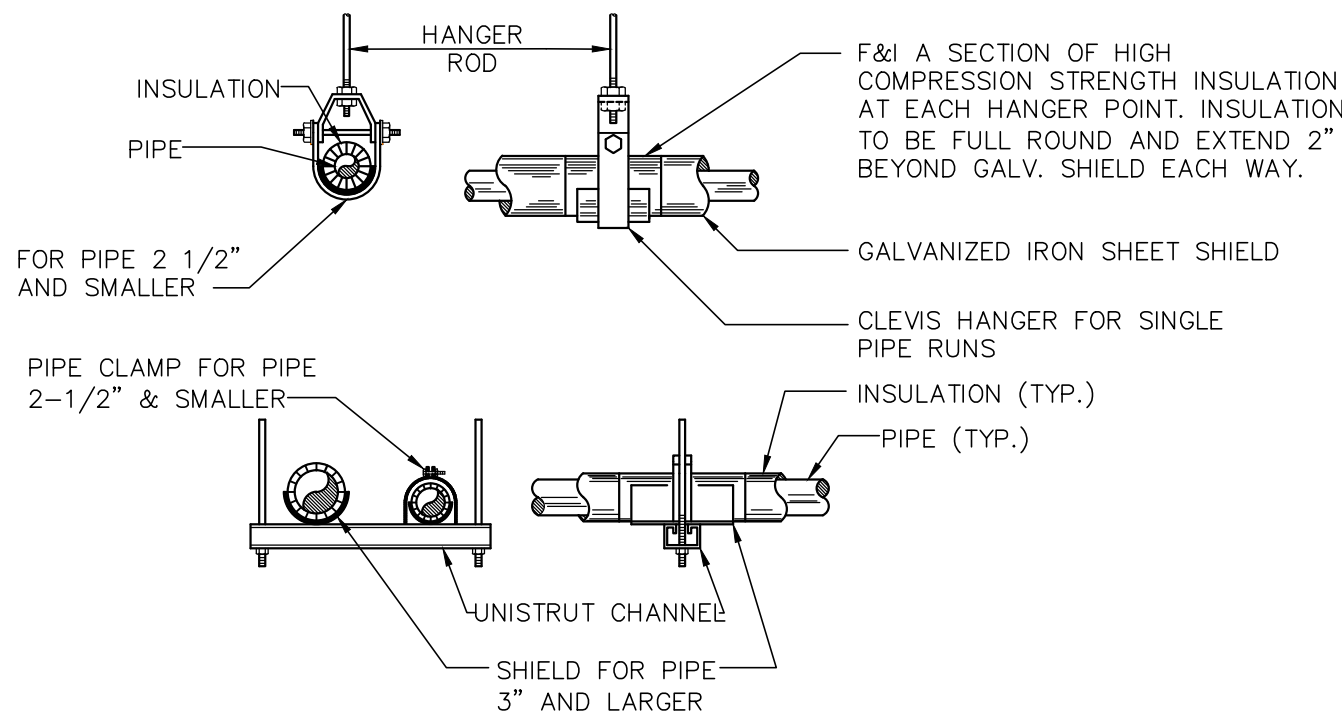
P2.1

THE DETAILS ON THIS SHEET ARE STANDARD DETAILS. NOT ALL DETAILS MAY BE RELEVANT TO THIS PROJECT.



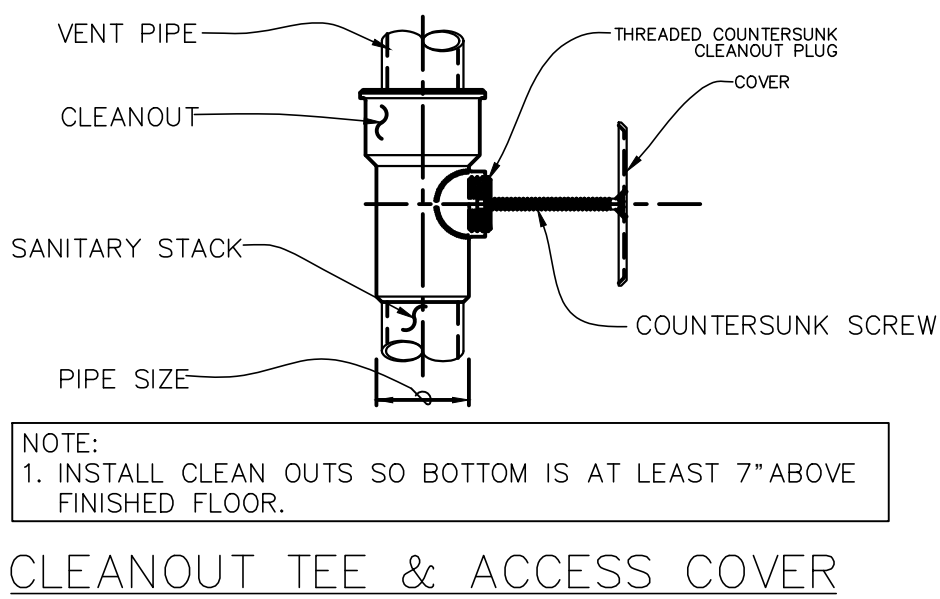
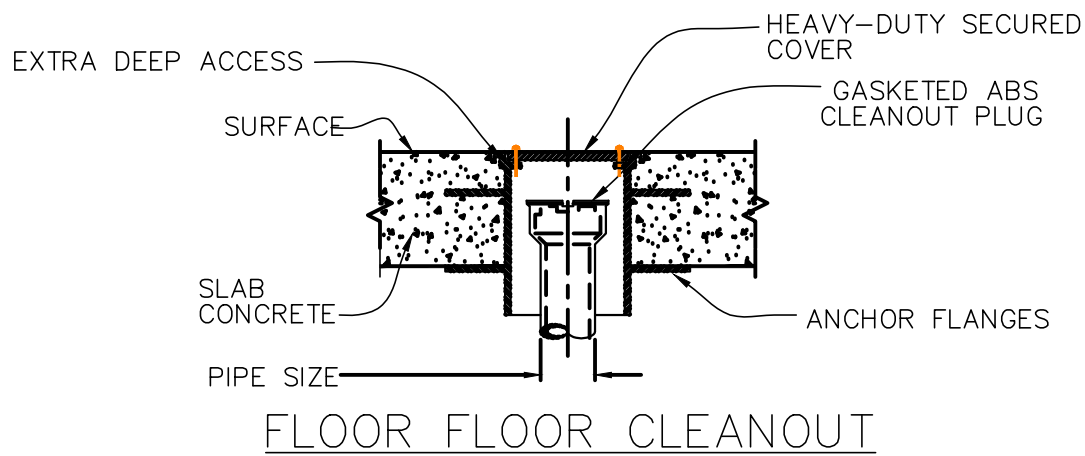
CONDENSATE TRAP DETAIL

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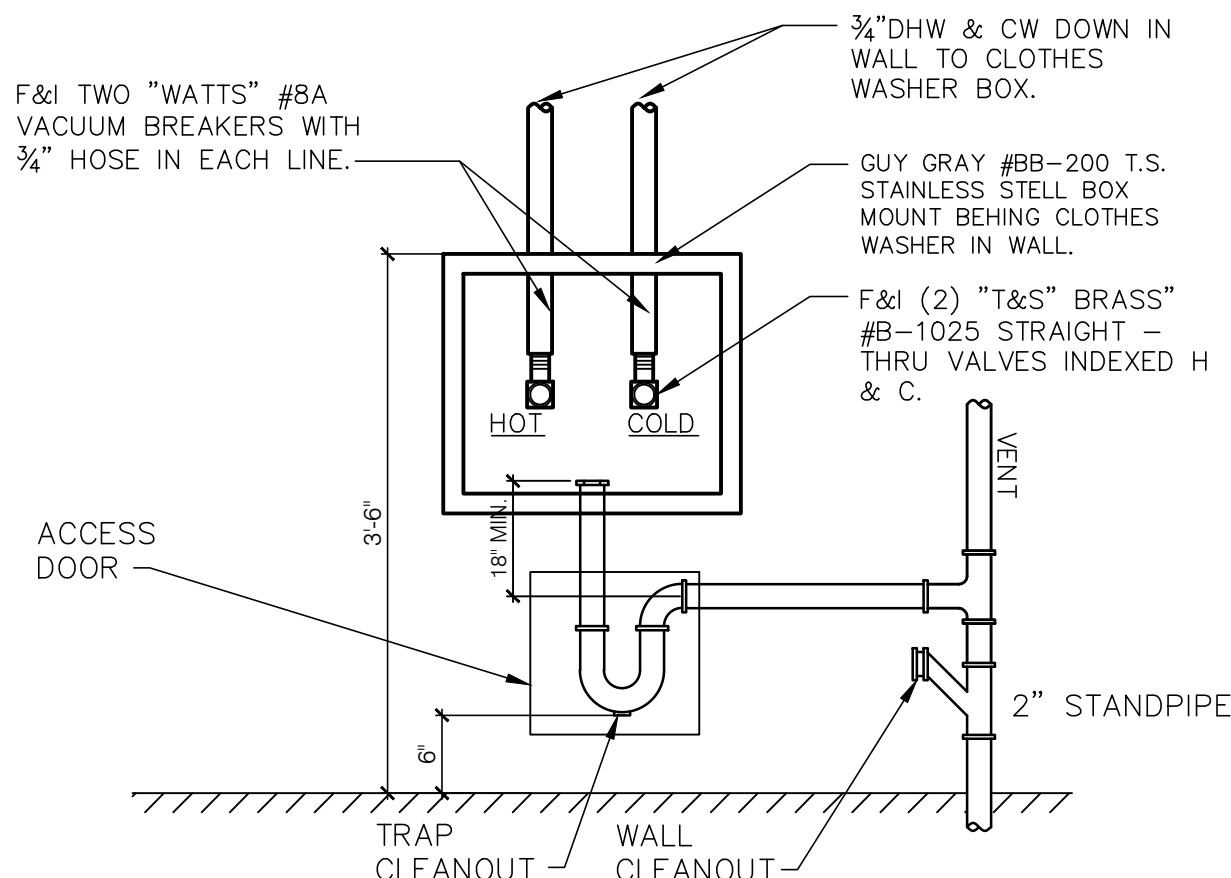
TYPICAL WATER, DRAIN, WASTE AND VENT PIPE SUPPORT DETAIL

NO SCALE



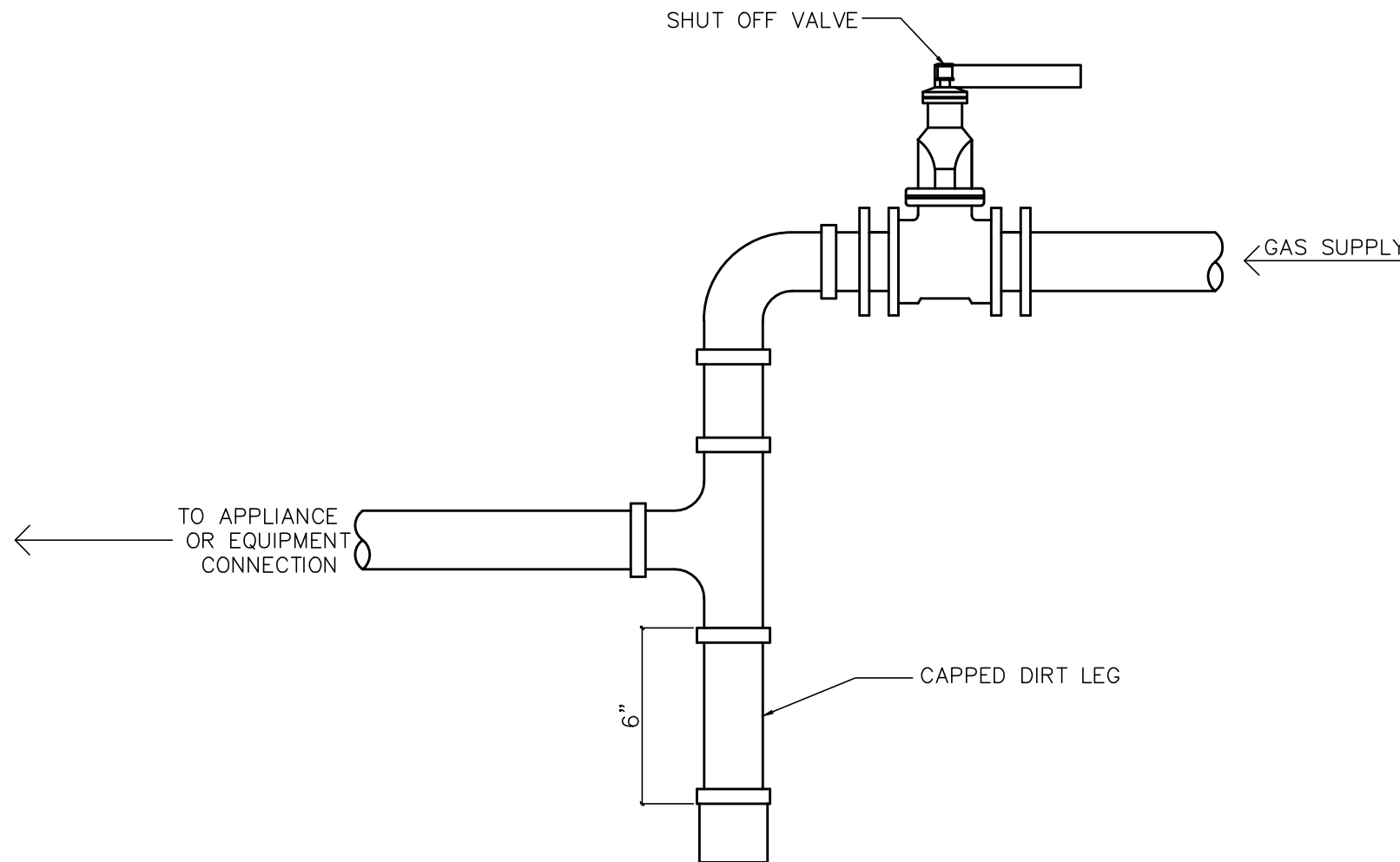
TYPICAL CLEANOUT DETAILS

NO SCALE



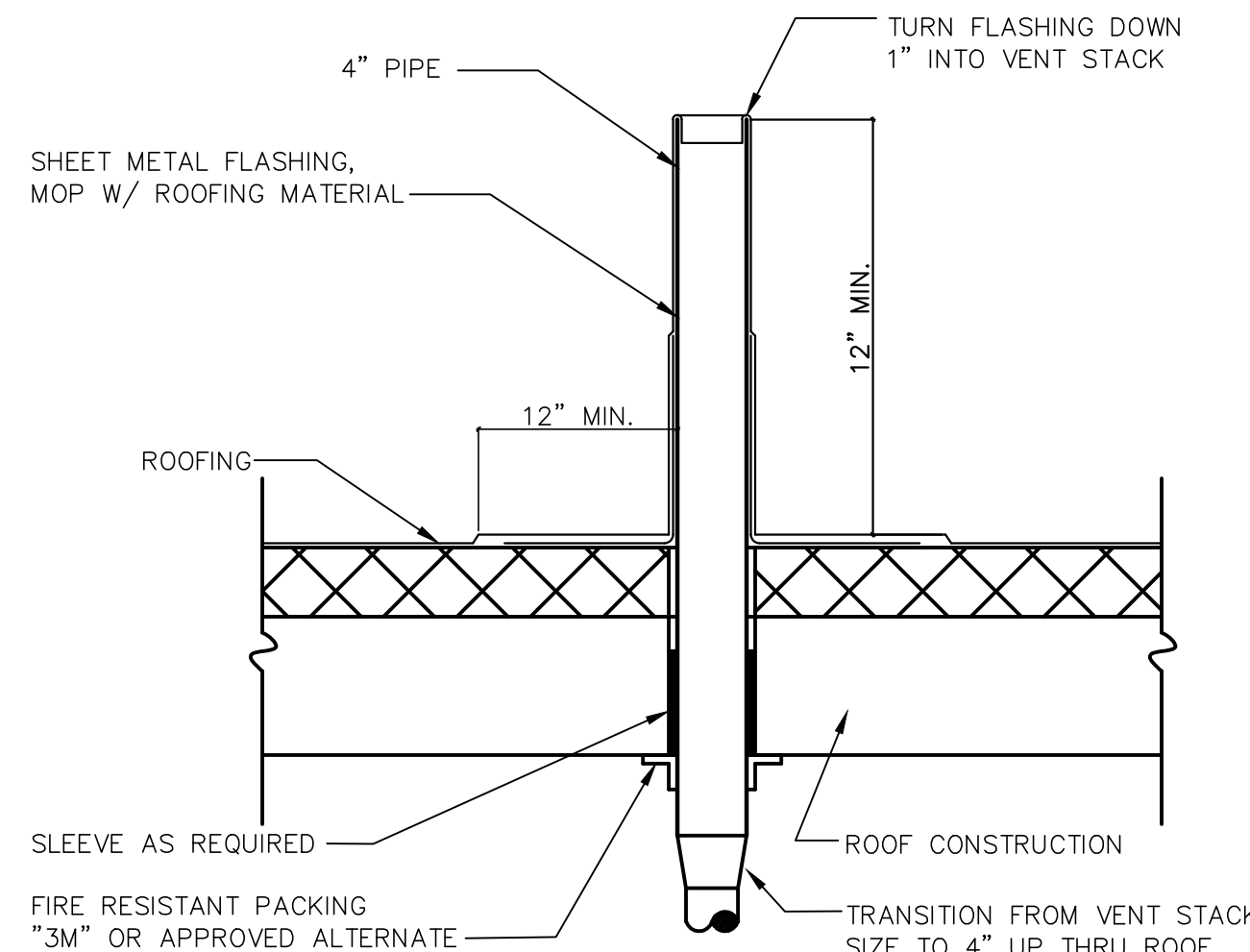
CLOTHES WASHER BOX CONNECTION DETAIL

NO SCALE



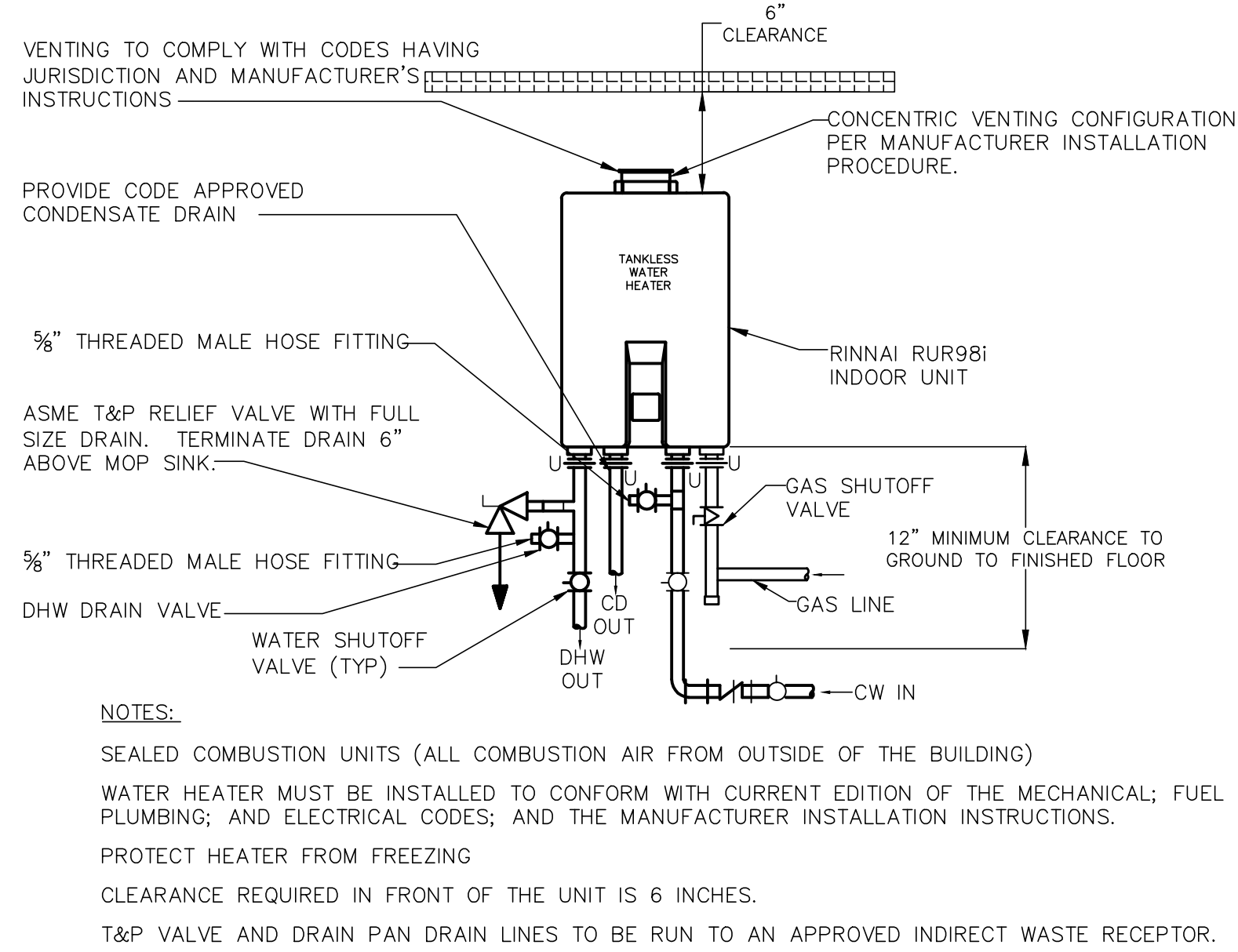
GAS EQUIPMENT CONNECTION DETAIL

NO SCALE



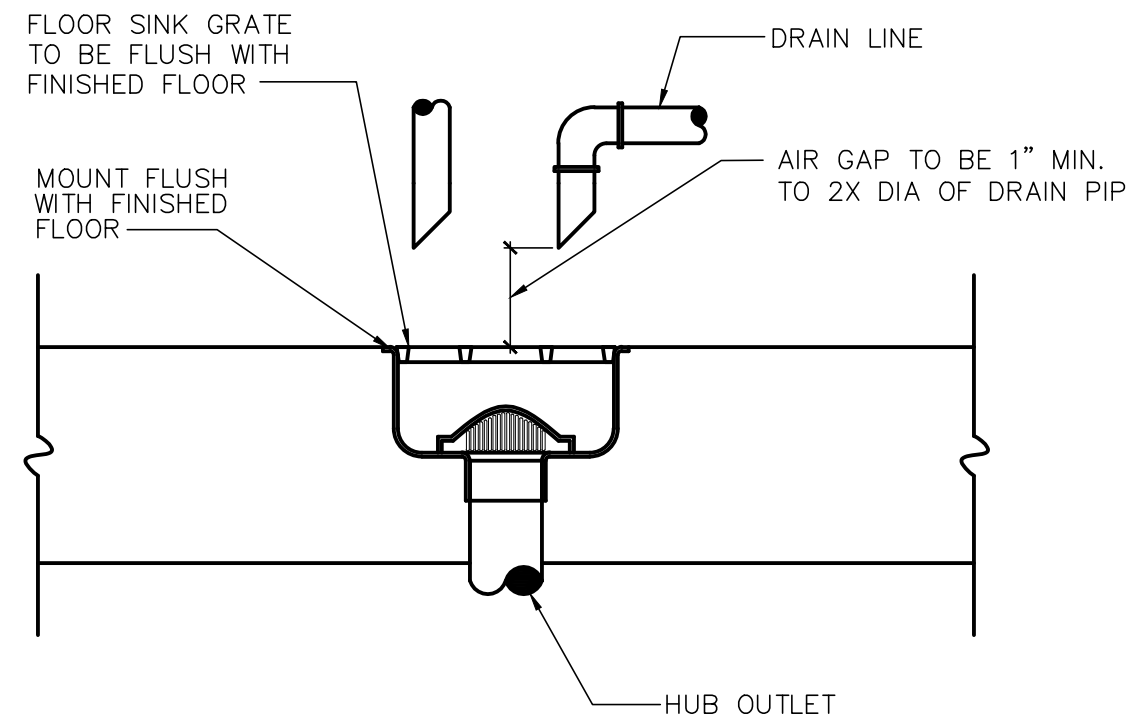
TYPICAL VENT THRU ROOF DETAIL

NO SCALE



INSTANT DOMESTIC WATER HEATER DETAIL

NO SCALE

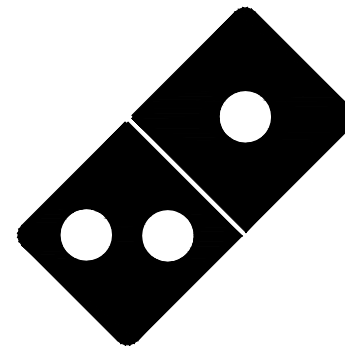


FLOOR SINK DETAIL

NO SCALE



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P3.0

