



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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02.11.22

project number 2021-099

date 1/4/22

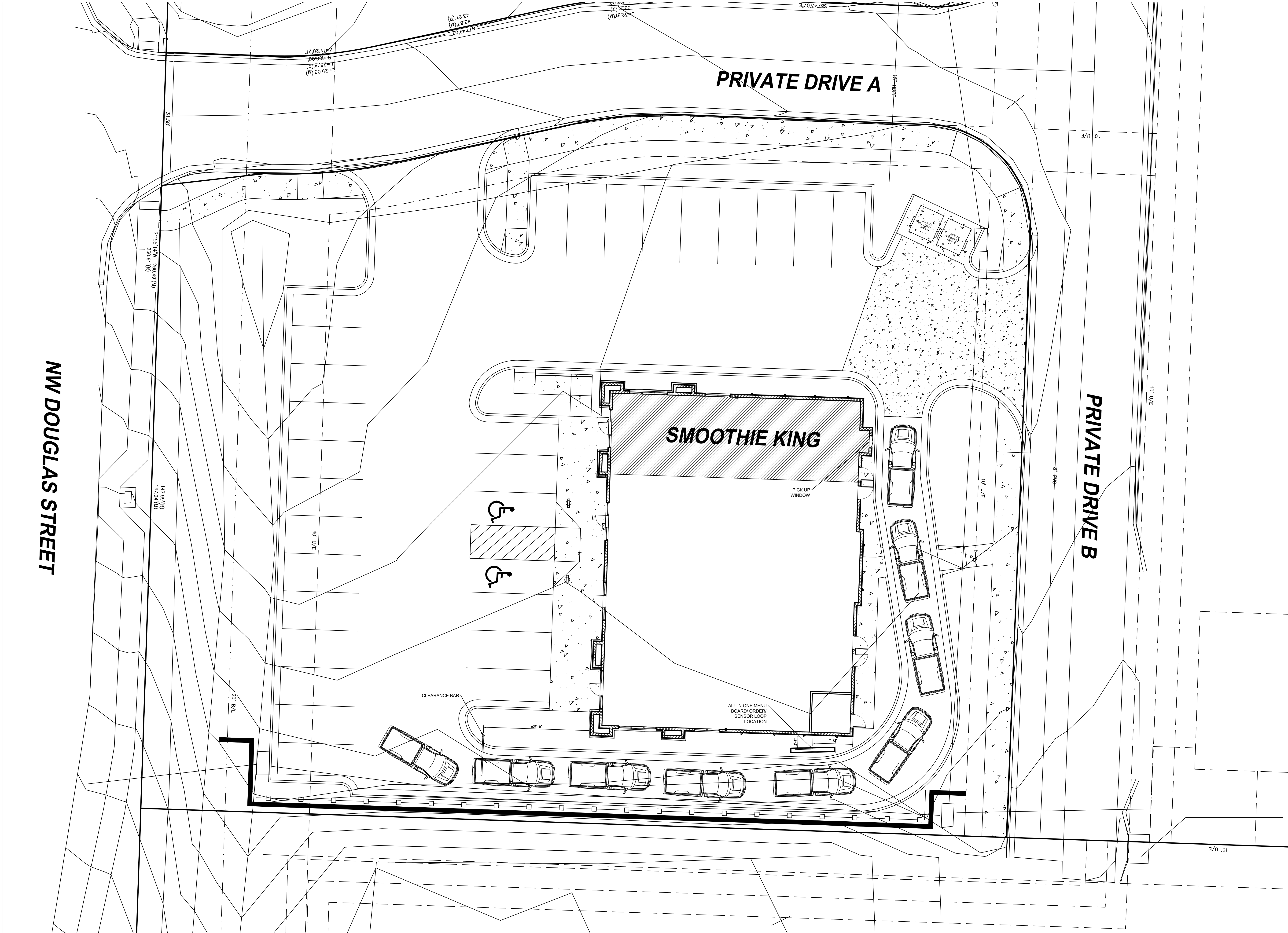
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| 1 | 01.10.22 | City Comments |
| 2 | 02.11.22 | Drive Thru Adjustment |

ARCHITECTURAL
SITE PLAN

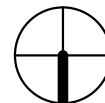
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AS-1

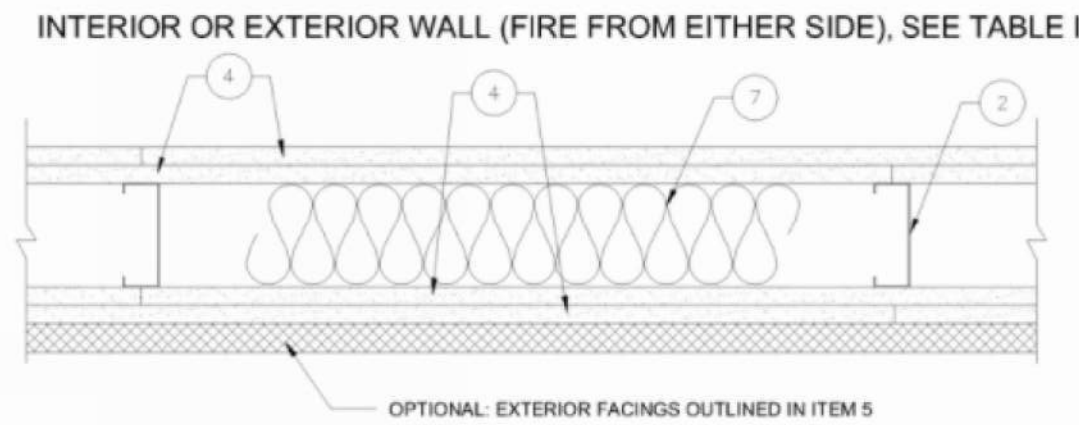


1
AS-1

ARCHITECTURAL SITE PLAN
3/32" = 1'-0"



- Design No. U425
- June 10, 2021
- Bearing Wall Rating — 3/4 Hr., 1, 1-1/2 or 2 Hr.
- (See Items 2, 4 and 5)
- This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- 1. Steel Floor and Ceiling Tracks — (Not Shown) — Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 MSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.
- 2. Steel Studs — Min 3-1/2 in. wide, No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
- 2B. Steel Studs — Framing Members* — In lieu of Item 2 — Min 3-5/8 in. wide, No. 20 MSG (0.036 in. min. thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
- BAILEY METAL PRODUCTS LTD
- 3. Lateral Support Members — (Not Shown) — Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.
- 4. Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

TABLE 1		Minimum Thickness (in.)		Percent of Design Load	
Rating		Minimum Thickness (in.)		Percent of Design Load	
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2

- 4B. Gypsum Board* — (As an alternate to Item 4) — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers on interior walls (multilayer systems) staggered a min of 12 in.
- GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG
- NATIONAL GYPSUM CO — Type FSW-6.
- CERTAINTEED GYPSUM INC — GlasRoc
- 6. Fasteners — (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long. Fasteners when Item 4G is used: First layer #6 x 2 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Second layer #6 x 4 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Horizontal joints to be staggered 12 in. between layers.
- 7. Batts and Blankets* — Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity.
- See Batts and Blankets* (BZJZ) Category for names of Classified companies.
- 8. Joint Tape and Compound — (Not Shown) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.
- 9. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws.



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UL ASSEMBLY

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A-1a

CONSTRUCTION NOTES

- DIMENSIONS ON FLOOR PLANS ARE FINISH WALL SURFACE TO FINISH WALL SURFACE.
- VERTICAL DIMENSIONS AND NUMERICAL ELEVATIONS ARE TO THE FINISH SURFACE.
- METAL STUD PARTITIONS SHALL HAVE REINFORCEMENT FOR ATTACHMENT OF WALL MOUNTED ITEMS AS REQUIRED, AND SHALL BE BRACED TO STRUCTURE ABOVE FOR HEAVY ITEMS AS REQUIRED FOR SUPPORT. IF WATER HEATER IS SCHEDULED TO BE INSTALLED OFF THE FLOOR, WALLS TO HAVE 16 GA, 12" STUD ON CENTER TO ACCOMMODATE THE WATER HEATER. PROVIDE 5/8" TYPE "X" GREEN BOARD AT WET LOCATIONS.
- DIMENSIONS MARKED "CLEAR" INDICATE A MINIMUM CLEARANCE THAT MUST BE MAINTAINED. ANY DISCREPANCIES MUST BE REPORTED TO SMOOTHIE KING BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR TO PROVIDE DOORS, FRAMES, STOPS, MUTES, AND BUTTS THROUGHOUT FOR A COMPLETE INSTALLATION.
- INFORMATION CONTAINED IN THESE DOCUMENTS IS BASED ON EXISTING DOCUMENTS AND LISTED FIELD MEASUREMENTS AND THERE MAY BE REQUIRED ADJUSTMENTS AND/ OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS. SMOOTHIE KING SHALL APPROVE ADJUSTMENTS IN ACCORDANCE WITH DESIGN INTENT. IN NO CASE SHALL SAID ADJUSTMENTS REDUCE THE QUALITY OF CONSTRUCTIONS OR REDUCE THE PROJECTS CONFORMANCE TO STATE AND LOCAL CODES AND ORDINANCES.
- IF EXISTING FIREPROOFING OR FIRE ASSEMBLIES ARE DAMAGED DURING CONSTRUCTIONS, THEY SHALL BE RESTORED TO CONFORM TO ORIGINAL FIRE PROTECTION REQUIREMENTS.
- VERIFY THAT CONSTRUCTION OF EXISTING WALLS, FLOORS AND OPENINGS WITHIN THE PROJECT SCOPE MEET THE FIRE PROTECTION RATING DESIGNATED ON THESE DRAWINGS. MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO BRING SAID WALLS, FLOORS, DOORS, DUCT PENETRATIONS, ETC. UP TO DESIGNATED RATING.
- DO NOT SCALE DRAWINGS. IF DRAWINGS ARE IN QUESTIONS, OBTAIN CLARIFICATION FROM SMOOTHIE KING, DESIGN DEPT., PRIOR TO CONTINUING CONSTRUCTION.
- WORK SHALL COMPLY WITH THE A.D.A. REQUIREMENTS. CONSULT ARCHITECT IF MOUNTING HEIGHTS AND CLEARANCES ARE IN DOUBT.
- CONTRACTOR TO REMOVE OLD FLOORING, IF APPLICABLE. FLASH PATCH AREAS WHERE FLOOR IS NOT LEVEL OR TRUE.
- ALL TELEPHONE AND COMMUNICATIONS WIRING MUST BE AIR PLENUM APPROVED OR IN CONDUIT. IF AUTOMATIC SPRINKLER SYSTEM IS EXISTING, MODIFICATIONS AND DOCUMENTATION FOR OBTAINING PERMITS IS RESPONSIBILITY OF THE CONTRACTOR. ADJUST LOCATION OF SPRINKLER HEADS AND DROPS TO ACCOMMODATE PARTITIONS AND CEILING SYSTEM, AS REQUIRED BY CODE. PROVIDE "ARM OVERS" FROM THE EXISTING BRANCH OUTLETS TO THE NEW SPRINKLER HEADS. ALL SPRINKLER WORK SHALL COMPLY WITH NFPA
- CONTRACTOR TO REPLACE ALL MISSING ESCUTCHEON PLATES. NEW PLATES TO MATCH EXISTING.
- IF HVAC IS EXISTING, RELOCATE DUCTWORK TO CONFORM TO REVISED WALL LOCATIONS. FURNISH AND INSTALL NEW DIFFUSERS AND RETURN GRILLES, AS REQUIRED. CONTRACTOR TO RE-BALANCE HVAC SYSTEM.
- MISCELLANEOUS HVAC AND PLUMBING WORK NOT SPECIFICALLY NOTED ON THE DRAWINGS SHALL COMPLY WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- IF APPLICABLE, CONTRACTOR TO CLEAN AND REPAIR ALL EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES TO A NEW APPEARANCE AND GOOD WORKING CONDITION. REPLACE PLUMBING FIXTURES AND/OR TOILET ACCESSORIES NOT MEETING CURRENT A.D.A. OR LOCAL CODE REQUIREMENTS WITH FIXTURES SCHEDULED ON THIS SHEET.
- ALL 5/8"G.W.B. (MOISTURE RESISTANT IN RESTROOMS) IN THE LEASED PREMISES SHALL BE FURNISHED, INSTALLED, TAPED AND SPACKLED BY G.C.



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FLOOR PLAN &
DOOR SCHEDULE

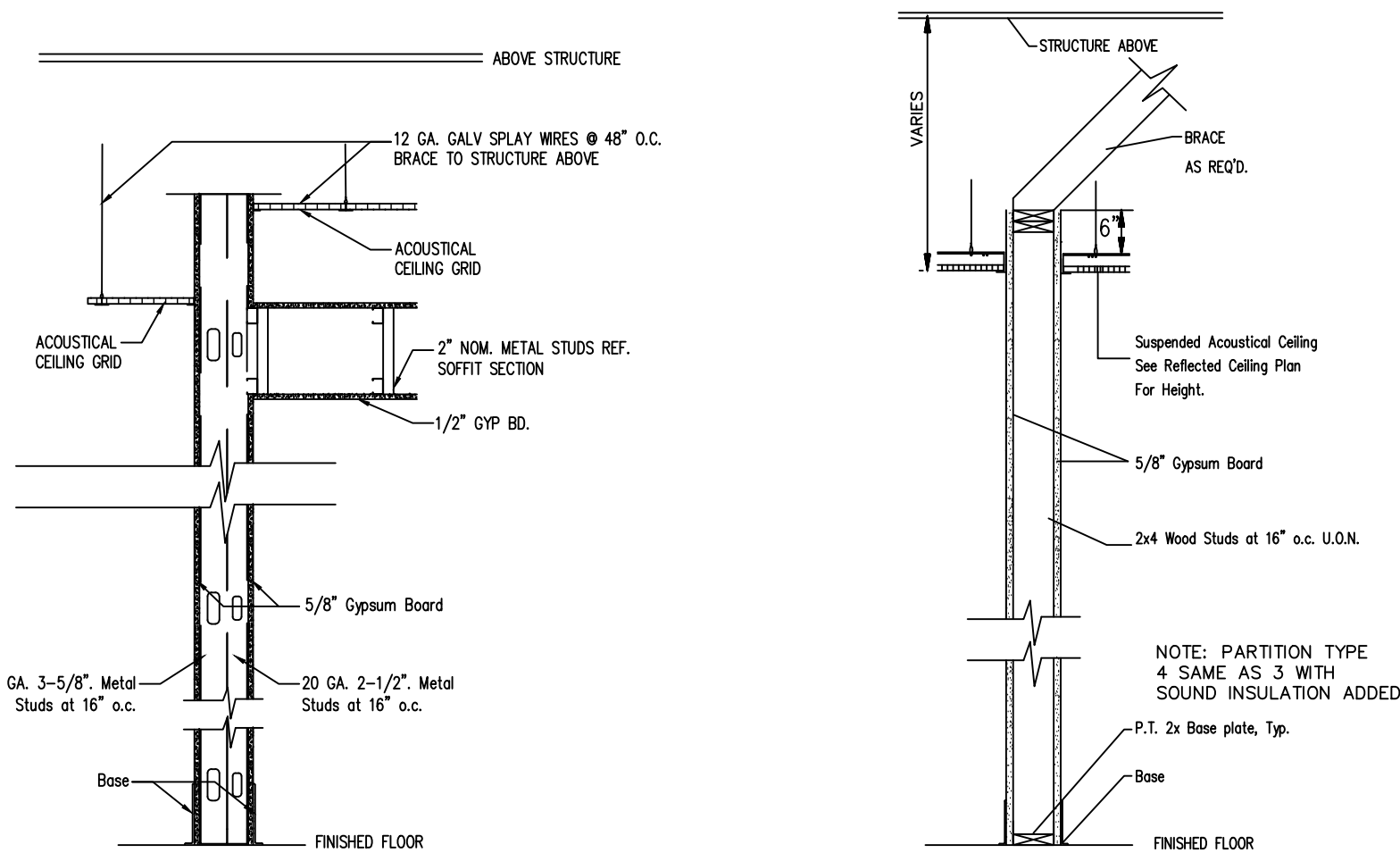
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A-2

DOOR SCHEDULE							
MARK	PROVIDED BY	INSTALL BY	DOOR		FRAME		REMARKS
			SIZE (W x H x T)	MATERIAL	MATERIAL	THRESH-OLD	
①	G.C.	G.C.	NEW DOOR (2)3'-0" x 7'-0"	TEMPERED GLASS, STORE FRONT	ALUM.	ALUM.	LOCATE NEW DOOR AS SHOWN ON PLAN. SEE DETAIL 3/A-2 FOR DOOR GRAPHICS
②	G.C.	G.C.	NEW 3'-0" x 7'-0"	SOLID CORE FLUSH OAK VENEER DOOR	HOLLOW METAL TO BE PAINTED		USED AT RESTROOM AND OFFICE
③			NOT USED				
④			EXISTING DOOR (2)3'-0" x 7'-0"	HOLLOW CORE METAL TO BE PAINTED	HOLLOW METAL TO BE PAINTED	ALUM.	REAR EXIT DOOR - EXTERIOR SIDE OF DOOR TO BE PAINTED TO MATCH EXTERIOR WALL FINISH.
⑤			EXISTING 3'-0" x 7'-0"	SOLID CORE FLUSH OAK VENEER DOOR	HOLLOW METAL TO BE PAINTED		EXISTING DOOR - REPLACE DOOR IF EXISTING DOOR IS NOT A SOLID CORE FLUSH OAK DOOR W/ OAK VANEER
HANDICAP ACCESSIBLE GUIDELINES: 4.27.4 OPERATION CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N).							

HARDWARE SCHEDULE			DESCRIPTION
MARK	PROVIDED BY	INSTALL BY	
A	ZEE	G.C.	CLOSER, MORTISED CYLINDER WITH INTERCHANGEABLE CORE COORDINATE WITH LOCKSET MECHANISM. OPERATE FROM OUTSIDE BY KEY AND INSIDE BY LATCH.
B	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, PRIVACY, CLOSER, AND FLOOR STOP. 8" TALL BY 32" WIDE BRUSHED METAL KICK PLATE (BOTH SIDES)
C			NOT USED
D	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, LOCKSET, CLOSER AND FLOOR STOP. REKEY AS REQUIRED BY TENANT. PROVIDE HARDWARE WITH PANIC DEVICE AND OUTSIDE LEVER WHERE REQUIRED-PROVIDE PEEP HOLE. 24" TALL BY 32" WIDE BRUSHED METAL ARMOR PLATE - INSIDE OF DOOR
E	G.C.	G.C.	1-1/2 PAIR HINGES, MUTES, LOCKSET, AND FLOOR STOP.
F	ZEE	G.C.	EXISTING HARDWARE TO REMAIN AS IS

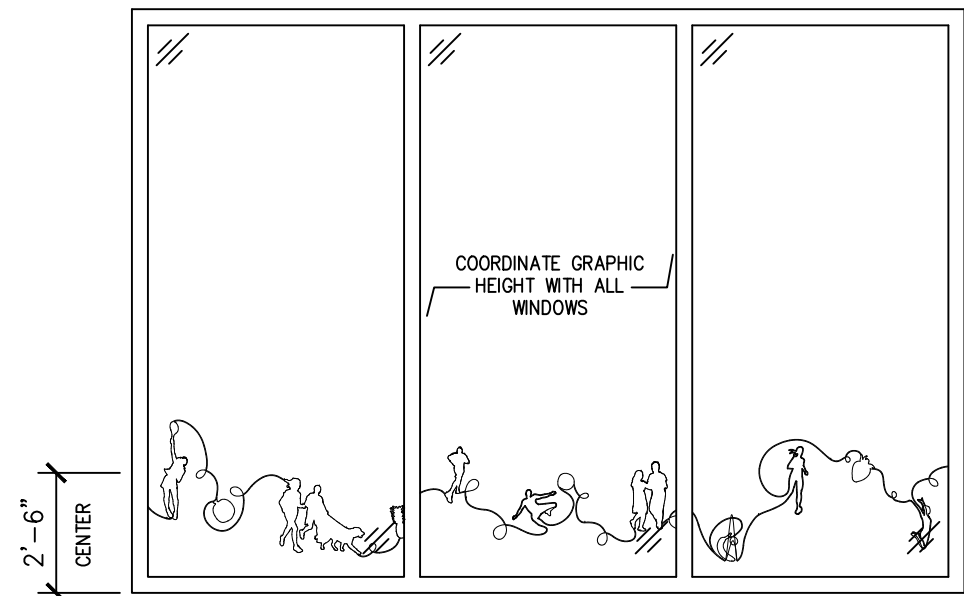
PARTITION TYPES		DOOR HARDWARE INFORMATION
MARK	DESCRIPTION	
1	EXTERIOR WALL (G.C. RESPONSIBLE FOR INSULATION AND SHEETROCK 6" ABOVE CEILING IN ANY GIVEN ROOM)	FLOOR STOP 438B26D EACH DOOR 3 HINGES CB1960 4-1/2 X 4-1/2 NRP-US32D EACH DOOR 3 MUTES
2	NEW 1-HR PARTITION TO BE CONSTRUCTED TO UNDERSIDE OF EXISTING ROOF DECK. UL #425. SEE DETAIL 4/A2.	WEATHERSTRIPPING, NATIONAL GUARD 160 NGP PRIVACY SET-SARGENT 7J165/ LL LEVER / US26D OR EQUAL. LOCKSET-SARGENT 7005/ LL LEVER / US26D OR EQUAL.
3	1-HR PARTITION EXISTING SEE DETAIL 7/A2.	CLOSER AT EXTERIOR DOOR TO BE SARGENT 1400 SERIES 8243/LL LEVER US32D OR EQUAL. CLOSER AT INTERIOR DOOR TO BE SARGENT 1431 OR EQUAL.
4	NEW STANDARD INTERIOR WALL TO EXTEND 6" ABOVE LAY IN CEILING WITHOUT INSULATION. BRACE TO STRUCTURE ABOVE. REF DETAIL 5/A-2	
5	NEW STANDARD INTERIOR WALL TO EXTEND 6" ABOVE LAY IN CEILING WITH INSULATION. BRACE TO STRUCTURE ABOVE.	
6	FINISHED FURRED OUT 2 1/2" WALL TO EXTEND 6" ABOVE LAY IN CEILING. BRACE TO STRUCTURE ABOVE. REF DTL 6/A-2	
7	NEW STANDARD INTERIOR WALL TO EXTEND TO HOT WATER HEATER SHELF.	
8	EXISTING INTERIOR WALL TO REMAIN AND BE REPAIRED AS NECESSARY TO RECEIVE NEW FINISHES.	
*** WHERE PLUMBING IS SHOWN, CONTRACTOR TO ALLOW FOR SPECIAL WALL THICKNESS REQUIRED FOR SAME		
FLOOR PLAN LEGEND		
MARK	DESCRIPTION	
1	NOT IN CONTACT	
2	NEW WALL	
3	EXISTING WALL TO REMAIN	
4	DEMO WALL	



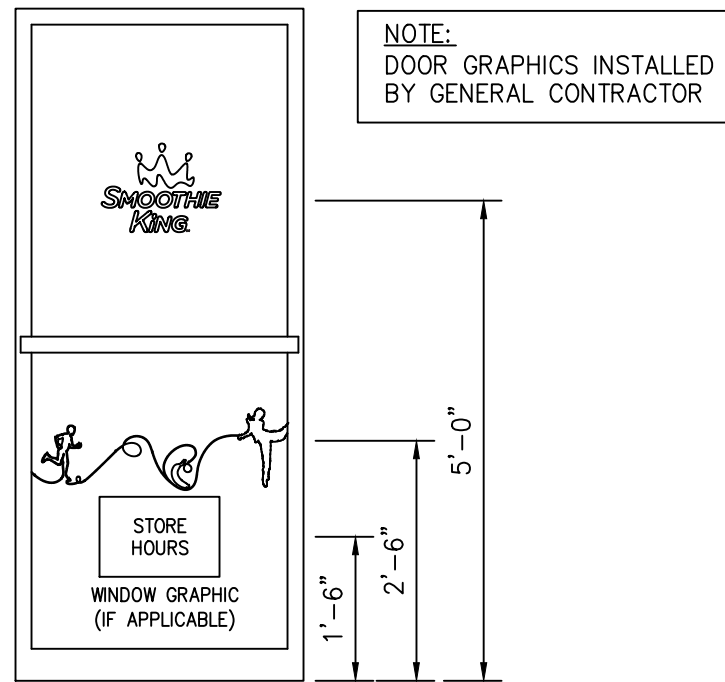
5 INT. WALL SECTION WALL TYPE 3 & 4
SCALE" N.T.S

6 TYP. INTERIOR BUMPED
OUT FURRED WALL
SCALE" N.T.S

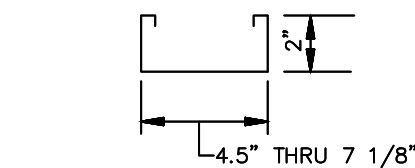
7 ONE HOUR FIRE RATED WALL,
UL DESIGN #U425
WALL TYPE 2a & 2b
SCALE" N.T.S



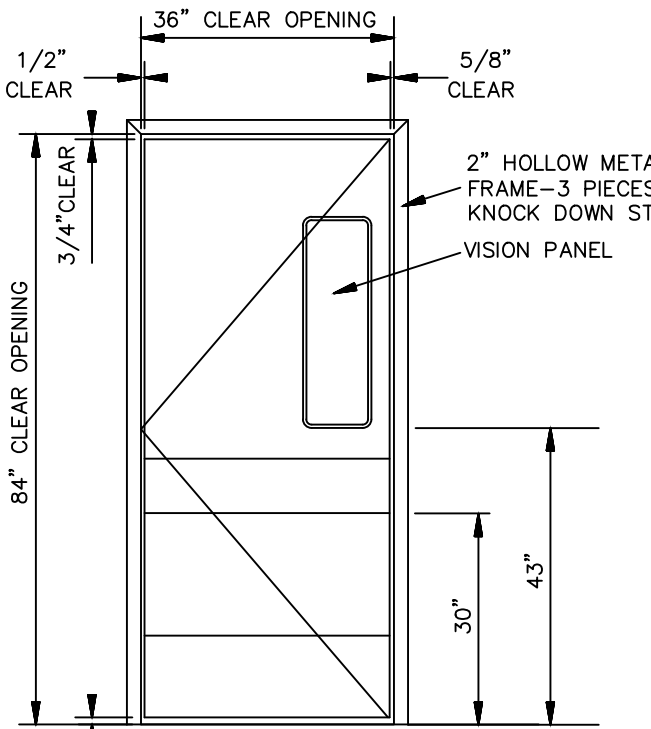
4 TYPICAL WINDOW GRAPHICS
SCALE" N.T.S



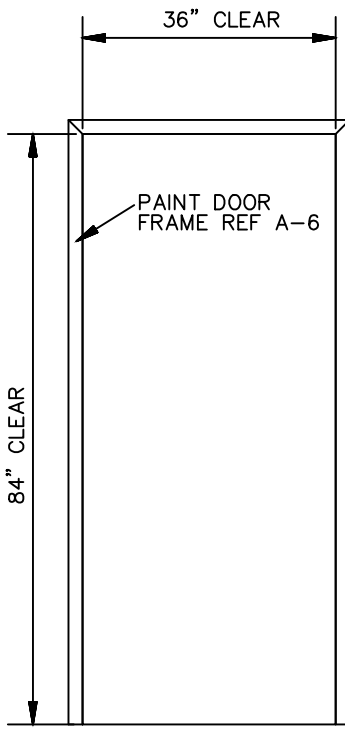
3 FRONT DOOR GRAPHICS
SCALE" N.T.S



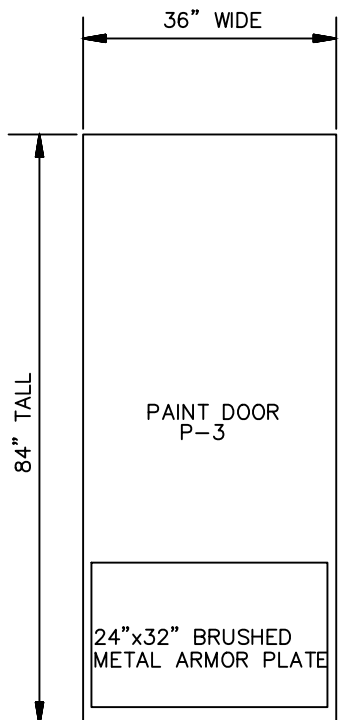
2" DOOR FRAME DETAIL



TYP. 3'x7' HM
SWING DOOR & FRAME

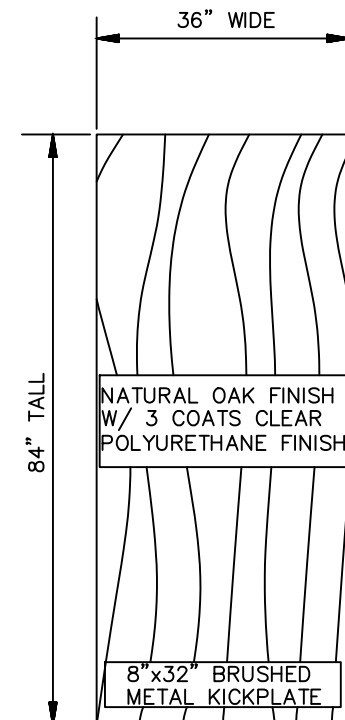


TYP. 3'x7' HM
DOOR FRAME

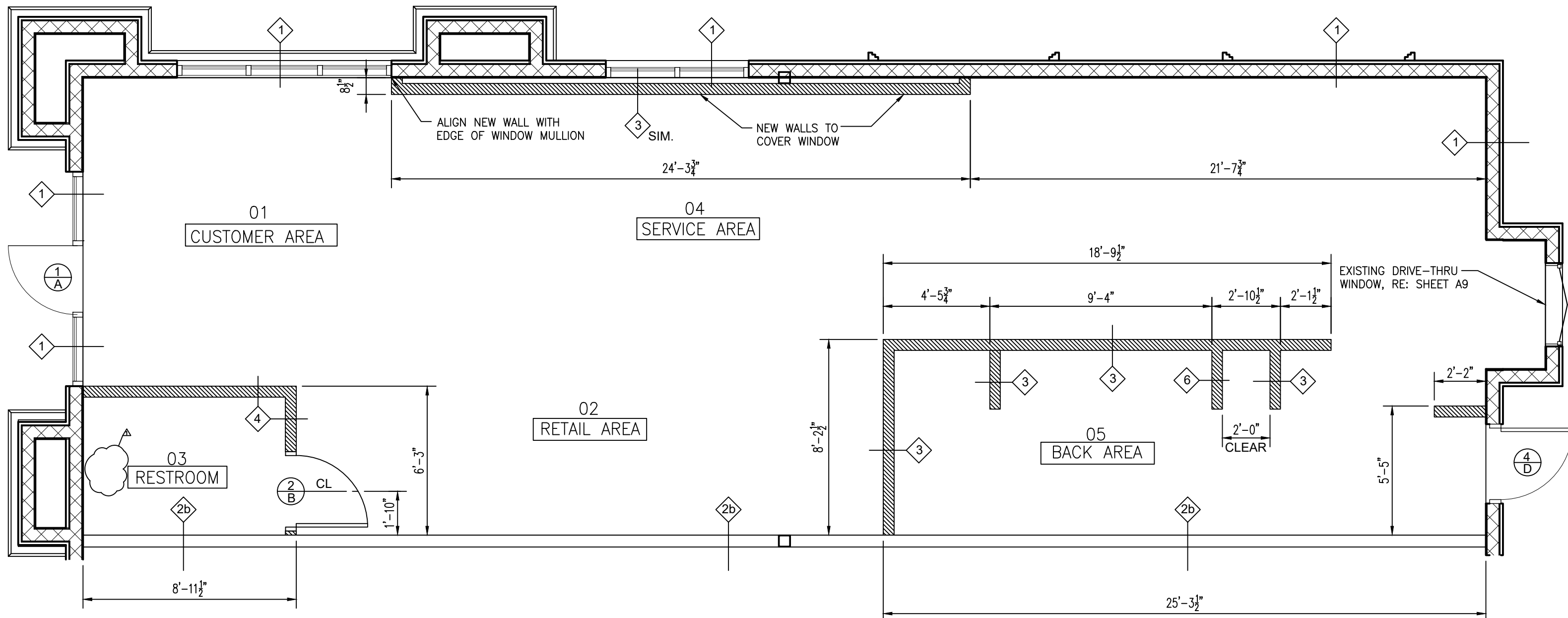


TYP. 3'x7' HM
DOOR

2 DOOR DETAILS
A-2



TYP. 3'x7'
SWC DOOR



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



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ENLARGED PLAN

sheet number

A-3

RESTROOM NOTES

THE RESTROOM LAYOUT IS BASED ON AND COMPLIES WITH THE "AMERICAN WITH DISABILITIES ACT" LATEST REGULATIONS. PLEASE NOTE THE FOLLOWING SECTIONS:

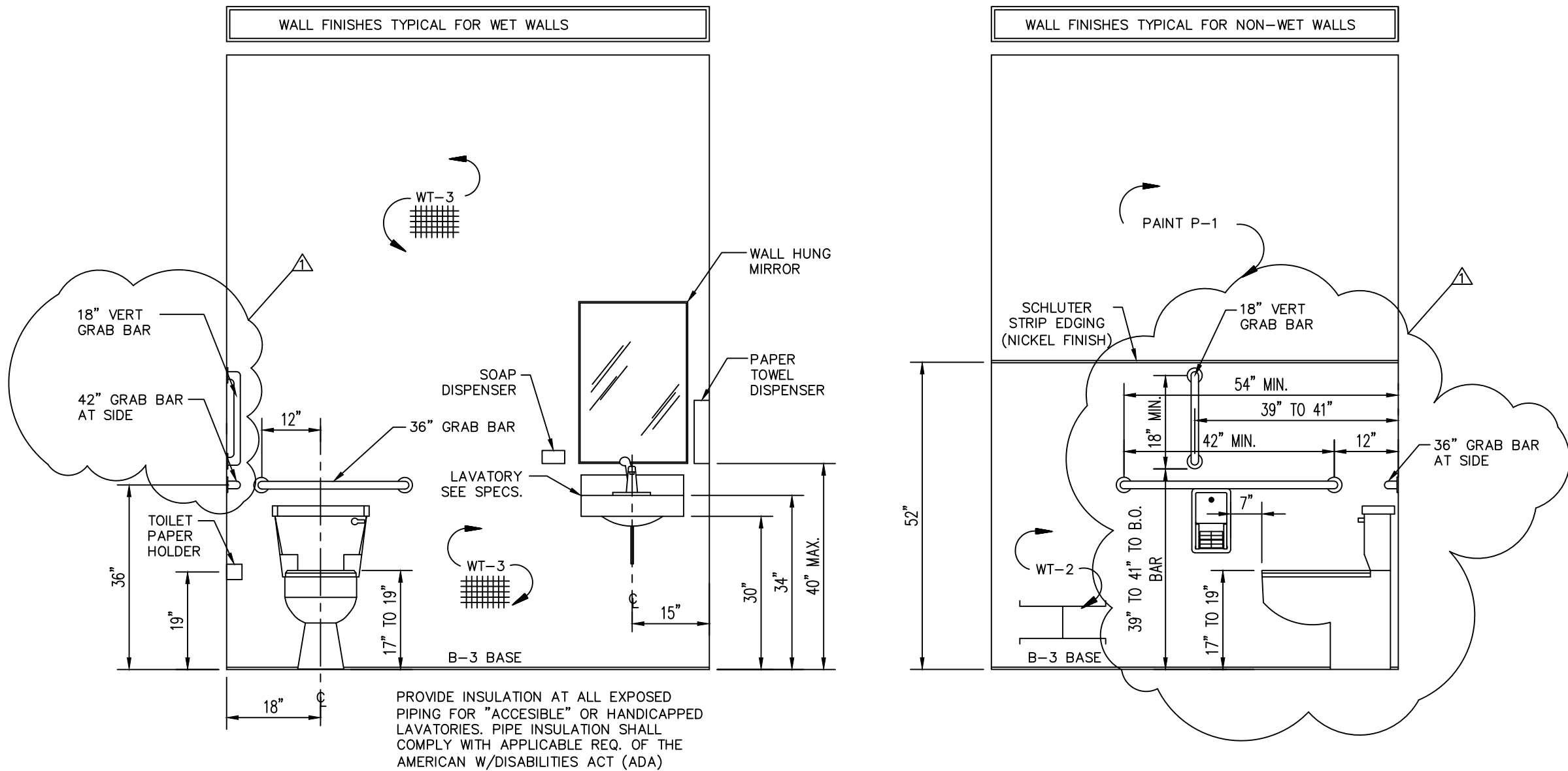
404.6.4 - EXPOSED PIPES AND SURFACES - HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

4.04.12.2 SIZE AND SPACING OF GRAB BARS & HANDRAILS. THE DIAMETER OR WIDTH OF GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1¼ IN TO 1½ IN (32 mm to 38 mm).

404.3.5 - FLUSH CONTROLS - FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH 404.13. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44" (1120 mm) ABOVE THE FLOOR.

4.04.6.5 FAUCETS - FAUCETS SHALL COMPLY WITH 4.04.13. LEVER-OPERATED PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

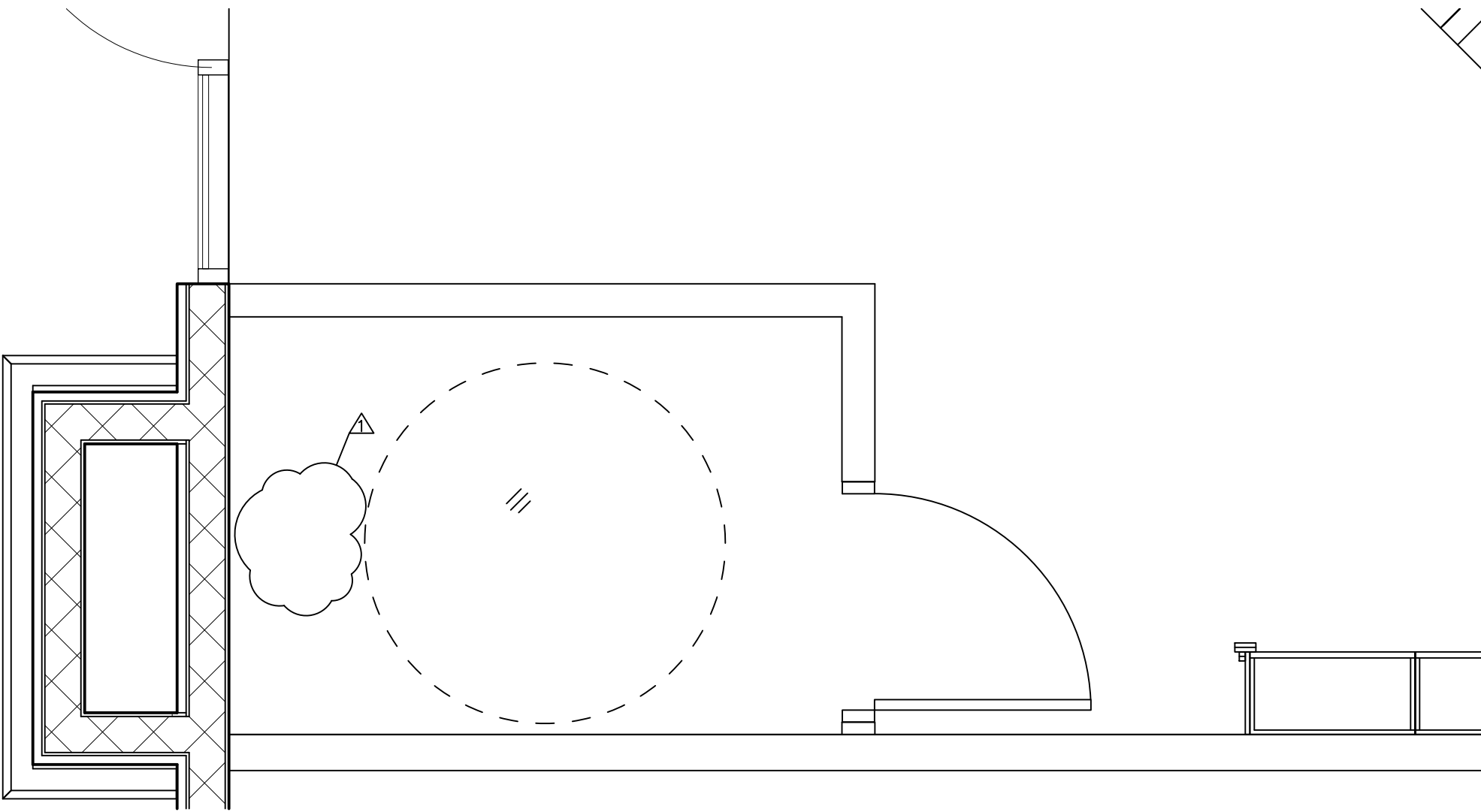
404.13 - OPERATION - CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2 N).



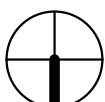
3 RESTROOM PLUMBING WALL ELEVATION
A-3 NOT TO SCALE

2 TYP. RESTROOM ELEVATION
A-3 NOT TO SCALE

TOILET ACCESSORIES						TOILET ACCESSORIES NOTES:	
MARK	QTY.	PROVIDED BY	INSTALL BY	DESCRIPTION	MANUFACTURER/ MODEL #	1. MOUNTING HEIGHTS SHALL COMPLY WITH ADA GUIDELINES. 2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 3. PROVIDE BLOCKING IN WALLS TO RECEIVE FIXTURES AND ACCESSORIES 4. PAPER TOWEL AND LIQUID SOAP DISPENSERS SHALL BE INSTALLED AT EVERY LAVATORY AND/OR HAND SINK. 5. DISPENSERS WILL ARRIVE FROM LOCAL PFG DISTRIBUTION CENTER. CONFIRM DISPENSERS ARE INCLUDED WITH YOUR PHASE 1 ORDER. DISPENSERS WILL BE SHIPPED WITH THE PHASE 1. CHEMICAL/CLEANING PRODUCTS FROM PFG.	
1	1	G.C.	G.C.	42" GRAB BAR	BOBRICK B-6806 SERIES		
2	1	G.C.	G.C.	36" GRAB BAR	BOBRICK B-6806 SERIES		
3	1	G.C.	G.C.	SURFACE-MOUNTED MULTI-ROLL DISPENSER	BOBRICK B-2888		
4	1	G.C.	G.C.	FRAMED MIRROR	BOBRICK SIZE 18" X 36"		
5	2	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED SS PAPER TOWEL DISPENSER	TORK - MODEL # 461002 PFG ITEM # 540093		
6	1	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED WHITE PAPER TOWEL DISPENSER (BACK OF HOUSE ONLY)	TORK - MODEL # 501020 PFG ITEM # 368025		
7	3	PFG - PROVIDED WITH FIRST PFG DELIVERY	G.C.	SURFACE MOUNTED LIQUID SOAP DISPENSER	SSDC - MODEL # 9222969 PFG ITEM # 584785		
8	1	G.C.	G.C.	18" VERTICAL GRAB BAR	BOBRICK B-6806 SERIES		



1 ENLARGED FLOOR PLAN
A-3 1/2" = 1'-0"





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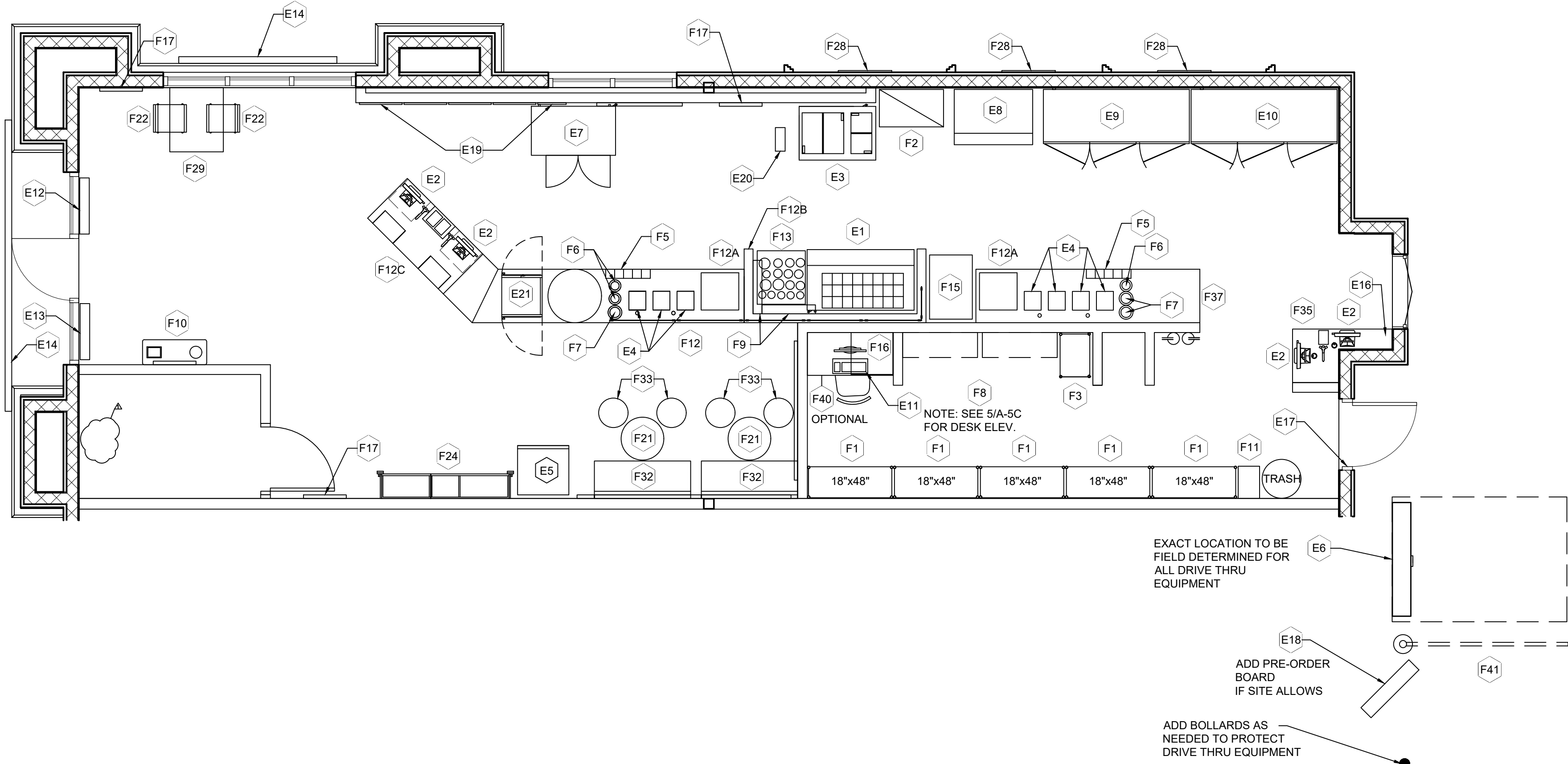
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EQUIPMENT
PLAN

sheet number

A-5a

EQUIPMENT SCHEDULE												
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	MANU-FACTURER	MODEL #	SIZE	ELECTRICAL SPECIFICATIONS			COMMENTS
									TYPE	HEIGHT		
E1	1	ZEE	FF&E	FF&E	PREP TABLE ON CASTORS	TURBO AIR	MST-60-24 (MEGA TOP)	60.25"L X 34"D X 44"H	8.9 AMP/115V/60/1, 1/2 HP	DED.CIR./ NEMA 5-15P	18" AFF	UNIT DESIGN TO HOLD FOOD AT 41°F OR BELOW
E2	4	ZEE	SKFI	MAVEN IT	POS W/ BRINK SOFTWARE	SKFI			DED.CIR./GROUND INSULATED/ISOLATED		IN CAB.	PROVIDE DATA JACKS AS NOTED;ALL POS INSTALLS TO ONLY BE INSTALLED BY MAVEN IT.
E3	1	ZEE	FF&E	FF&E	FLAT LID HORIZONTAL DIPPING FREEZER	MASTER-BILT	DC-6D	43"W X 30"D X 34"H	5.7 AMP/115V/60/1	NEMA 5-15P	18" AFF	1/4HP - ON CASTERS
E4	4*	ZEE	VITAMIX	ZEE	BLENDING STATION ADVANCE ON-COUNTER BLENDERS	VITA-MIX	36050-3813	8.5"W X 10.7"D X 18"H	15 AMP/120VAC 50/60Hz	DED. CIRCUIT, 20 AMP OUTLET, EACH UNIT	IN CAB.	WITH ADVANCE CONTAINER AND BLADE OPTIONAL ADDITIONAL BLENDERS
E5	1	ZEE	FF&E	FF&E	GLASS DOOR MERCHANDISER COOLER	TURBO AIR	TQM-22RV(B)	28 3/4"W X 27 5/8"D	7.6 AMP/115V/60/1 1/4 HP	DED.CIR./ NEMA 5-15P	18" AFF	
E6	1	ZEE	HC	GC.	COMBO MENU/CANOPY W/ IMBEDDED SPEAKER POST	HOWARD COMPANY	CUSTOM	50"W X 84"W X 122" H	COORDINATE ELECTRICAL REQUIREMENTS WITH HC W/ LIGHT KIT			A-9 FOR MORE INSTALL DETAILS
E6a	0	ZEE	HC	GC.	WALL MOUNTED DRIVE-THRU MENU BOARD	HOWARD COMP.	CUSTOM	66"W X 77.75"H X 8" M. BOARD W/ 17"x48" ENHANCER ADD ON	COORDINATE ELECTRICAL REQUIREMENTS WITH HC			REF 4/A-5B & A-9 FOR MORE INSTALL DETAILS
E7	1	ZEE	FF&E	FF&E	U. C. REFRIGERATOR	TURBO AIR	JUR-48-G	47"W X 27"D X 28.75" H	4.5 AMP/115/60/1 1/4 HP	DED.CIR./ NEMA 5-15P	18" AFF	
E7a	0	ZEE	FF&E	FF&E	COUNTERTOP GLASS DOOR MERCHANDISER	TRUE	QDM-05PT-S-HC-LD	24"W X 24"D X 37" H	2.7 AMP/115/60/1 1/5 HP	DED.CIR./ NEMA 5-15P	IN CAB.	
E8	1	ZEE	FF&E	G.C.	ICE CUBER MACHINE	HOSHIZAKI	KM-660MAJ	22"W X27.5"D X37.5"H	115V/60/1, 20 AMP HACR BREAKER SIZE. (3 WIRE W/ DEDICATED NEUTRAL FOR 115V)			REF ICE MACHINE NOTE ON A-5 - ALSO SEE PLUMBING REQUIREMENTS ON SHEET A-3 AT BOTTOM OF PLUMBING SCHEDULE/ 1/2" FILTERED WATER LINE
	1	ZEE	FF&E	FF&E /G.C.	ICE STORAGE BIN	HOSHIZAKI	B-700PF	44"W X 32.5"D X 46"H	--	--	3/4" FPT DRAIN	
E9	1	ZEE	FF&E	FF&E	REACH-IN REFRIGERATOR ON CASTORS	TURBO AIR	TSR-72SD	81 7/8"W X 30 3/8"D X 78.25"H	11.3 AMP/115V/60/1 1/2 HP	DED.CIR./ NEMA 5-15P	12" AFF	
E10	1	ZEE	FF&E	FF&E	REACH-IN FREEZER ON CASTORS	TURBO AIR	TSF-72SD	81 7/8"W X 30 3/8"D X 78.25"H	115/ 60/ 1 12.7 AMP - 1 1/2" HP - DED. CIR. - NEMA 5-20P		12" AFF	
E11	1	ZEE	ZEE	ZEE	PERSONAL COMPUTER				DED.CIR./GROUND INSULATED/ AND ISOLATED DATA/PHONE JACK		18" AFF	
E12	1	ZEE	COMET SIGNS	G.C.	WINDOW - SMOOTHIE KING SIGN	COMET SIGNS	"SMOOTHIE KING"		4 AMP	DUPLEX OUTLET	CLG. HGT.	OBTAIN APPROVAL FROM LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING. (972-870-1594)
E13	1	ZEE	HC	G.C.	"OPEN" SIGN	HOWARD COMP.	"OPEN"		4 AMP	DUPLEX OUTLET	CLG. HGT.	OBTAIN APPROVAL FROM CORPORATE, LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING. (howardsstore.com)
E14	TBD	ZEE	TBD	TBD	EXTERIOR SIGNAGE	EXTERIOR SIGN VENDOR	TBD	TBD	20 AMP	DEDICATED CIRCUIT J-BOX	SEE NOTE	OBTAIN APPROVAL FROM LANDLORD AND LOCAL CITY DEPT. BEFORE ORDERING AND PLACING SIGNAGE (MUST HAVE APPROVED SIGNAGE DRAWINGS FROM SK DESIGN DEPARTMENT)
E15	1	ZEE	ZEE	c3ms MEDIA	STANDARD MUSIC PACKAGE: SPEAKERS, 1 SATELLITE DISH, 1 AMPLIFIER & RECEIVER	c3ms MEDIA		6"Ø 70-VOLT CEILING SPEAKER				SPEAKER, COVERS AND TRANSFORMERS- LOCATE BY VENDOR - MATCH CEILING COLOR
E16	1	ZEE	HME	HME	DRIVE THRU SPEAKER PACKAGE W/ 4 HEADSETS							CONTACT CRAIG AT 770-309-1768.
E17	1	ZEE	GC	GC	BACK DOOR ENTRY ALARM	DETEX	EAX-500		BATTERY OPERATED			ENTRY DOOR ALARM - INSTALL ON LATCH OF DOOR - MOUNTING HEIGHT TO BE COORDINATED WITH FRANCHISEE
E18	1	ZEE	HC	GC.	DRIVE THRU PRE-ORDER BOARD	HOWARD COMP.	CUSTOM	7"W X 38.5"W X 79" H	COORDINATE ELECTRICAL REQUIREMENTS WITH HC			PRE-ORDER BOARD TO BE PURCHASED AND INSTALLED IF THERE IS SPACE BEHIND THE DRIVE THRU MENU BOARD AND DOESN'T OBSTRUCT CROSSING TRAFFIC - REF A-9
E19	5	ZEE	FF&E	GC.	4 LED MENU BBS & 1 LED INSERT BOARD.	SIGN IMPORTS		4) 24"x48" BRDS - (1) 15"x48" BRD CHRIS NIANJOURS - 937-291-3590	4 AMP	DUPLEX OUTLET	REF ELEV	3 DUPLEX OUTLETS MOUNTED ABOVE CEILING
E20	1	ZEE	FF&E	GC.	AUTOMATIC WATER DISPENSER	VITA-MIX	ITEM # 066032	DISPENSER CONTROL MODEL: 3 1/2" X 13 1/2" X 8 -1/4"		DUPLEX OUTLET	18" AFF W/IN	SINGLE DUPLEX OUTLET MOUNTED WITHIN THE BLENDER CABINET. DISPENSER MOUNTED ON SS SPLASH GUARDS, THE COMPRESSOR MOUNTED WITHIN BLENDER SINK CABINET. FILTERED WATER TO DISPENSER
E21	1	ZEE	FF&E	FF&E	ONLINE ORDER PICKUP REFRIGERATOR	TURBO AIR	CRT-77-2R-N	16.75"W X 16.875"D X 38.5"H	1.7 AMP/115V/60/1 1/6 HP	DED.CIR./ NEMA 5-15P	18" AFF	
NOTE: THE SMOOTHIE KING "OPEN" IS AN OPTIONAL PURCHASE. HOWEVER - THIS IS CURRENTLY THE ONLY APPROVED "OPEN" SIGN THAT CAN BE PURCHASED AND INSTALLED WITHIN A SMOOTHIE KING STORE.												



FIXTURES & FURNITURE SCHEDULE					
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION
F1	5	ZEE	FF&E	FF&E	SUPPLY WRE SHELF BY FOCUS FOOD SERVICE. MODEL#FF18...C CLASS:70. NSF RATED
F2	1	ZEE	FF&E	FF&E	BANANA WIRE SHELF BY IRSG
F3	---	---	---	---	
F4	---	---	---	---	
F5	2	ZEE	FF&E	FF&E	LID HOLDER BY SAM JAMAR MODEL L-TO BE DETERMINED
F6	3	ZEE	FF&E	FF&E	COUNTER MOUNT TYPE PLASTIC CUP DISPENSER
F7	3	ZEE	FF&E	FF&E	COUNTER MOUNT TYPE PLASTIC CUP DISPENSER
F8	3	ZEE	FF&E	FF&E	WALL MOUNTED WIRE SHELVING NSF RATED
F9	2	ZEE	FF&E	FF&E	STAINLESS STEEL SHELF
F10	1	ZEE	FF&E	FF&E	COUNTER TRASH BIN WITHIN CABINET
F11	1	ZEE	FF&E	FF&E	FLOOR MOUNTED WALL LOCKER
F12	1	ZEE	FF&E	FF&E	BLENDER COUNTER W/ ICE BIN, CUP HOLDERS, SNEEZE GUARD
F12a	1	ZEE	FF&E	FF&E	CUSTOM INSULATED DROP IN ICE BIN - w/ 8" INTERIOR REDUCTION
F12b	1	ZEE	FF&E	FF&E	U-SHAPED WALL W/ SOLID SURFACE TOP
F12c	1	ZEE	FF&E	FF&E	ORDER COUNTER
F13	1	ZEE	FF&E	FF&E	27" STAINLESS STEEL POWDER TABLE ON CASTORS
F14	---	---	---	---	
F15	1	ZEE	FF&E	FF&E	STAINLESS STEEL WORK TABLE
F16	1	ZEE	FF&E	G.C.	SAFE DEPOSIT BOX MB27201CH-SG1 27"H X 19"W X 22"D
F17	3	ZEE	STORE DECOR	G.C.	24" X 36" POSTER FRAME - REFERENCE ELEVATIONS
F18	0	ZEE	FF&E	FF&E	30"x40" WALL MOUNTED RETAIL SLATWALL
F19	0	ZEE	FF&E	FF&E	24" DIAMETER CAFE ROUND TABLE BAR HEIGHT TABLE
F20	0	ZEE	FF&E	FF&E	ISLAND RETAIL DISPLAY
F21	2	ZEE	FF&E	FF&E	24" DIAMETER CAFE ROUND TABLE
F22	2	ZEE	FF&E	FF&E	CAFE CHAIR W/ RED SEAT
F23	0	ZEE	FF&E	FF&E	BAR STOOL W/ RED SEAT
F24	1	ZEE	FF&E	FF&E	RETAIL SHELVING--
F25	0	ZEE	FF&E	FF&E	42" HIGH COMMUNITY TABLE
F26	3	ZEE	STORE DECOR	G.C.	84" X 36" EXT. POSTER FRAME
F27	1	ZEE	FF&E	FF&E	30"x36" RECTANGLE CAFE TABLE
F28	0	ZEE	FF&E	FF&E	24" DIAMETER LOUNGE ROUND TABLE
F29	0	ZEE	TUUCI	TUUCI	PATIO UMBRELLA W/ STAND BURGUNDY COLOR UMBRELLA
F30	2	ZEE	FF&E	FF&E	BANQUET SEATING
F31	4	ZEE	FF&E	FF&E	WHITE CYLINDER TUFFET- 16.5" DIA X 18" H
F32	0	ZEE	FF&E	ZEE	LOUNGE SEATING W/ BURGUNDY COLOR SEAT
F33	1	ZEE	FF&E	FF&E	DRIVE THRU COUNTER
F34	---	---	---	---	
F35	1	ZEE	FF&E	FF&E	BACK WALL CABINET
F36	0	ZEE	FF&E	G.C.	ALUMINUM AND WOOD PATIO CHAIRS
F37	0	ZEE	FF&E	G.C.	ALUMINUM PATIO TABLE
F38	1	ZEE	FF&E	FF&E	24X48 PRE-MANUFACTURED DESK
F39	1	ZEE	HC	G.C.	HEIGHT CLEARANCE BAR

ICE MACHINE NOTES

NOTE: ICE MACHINE WILL BE DELIVERED TO THE JOB SITE AND SET IN PLACE BY FF & E SUPPLIER. THE GENERAL CONTRACTOR'S RESPONSIBILITY IS THE FOLLOWING:

- ALL PLUMBING CONNECTIONS
- ALL ELECTRICAL CONNECTIONS
- DISCONNECT ON ROOF (IF REQ'D BY LOCAL CODES)
- G.C. SHALL CONTRACT W/ LOCAL HOSHIZAKI INSTALLER TO PROVIDE THE FOLLOWING:
 - IF REMOTE CONDENSER, SET CONDENSER ON ROOF IF REMOTE UNIT (PLACE ON PLATFORM & TIE-DOWN IF REQ'D. BY LOCAL CODES)
 - RUN REFRIGERANT LINES FROM ICE MACHINE TO ROOF TO CONDENSER.
 - START UP OF ICE MACHINE BY HOSHIZAKI CERTIFIED INSTALLER.

IF REMOTE CONDENSER - URC-5F - 115 / 60 / 1.
AMBIENT TEMP RANGE: -20 TO 122°F
VOLTAGE RANGE: 104 TO 127V

1
A-5a
EQUIPMENT PLAN
1/4" = 1'-0"

REFERENCE A-5b - SK GRAPHIC LOCATIONS



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
EES SUMMIT MO 6408

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02.11.22

project number 2021-099

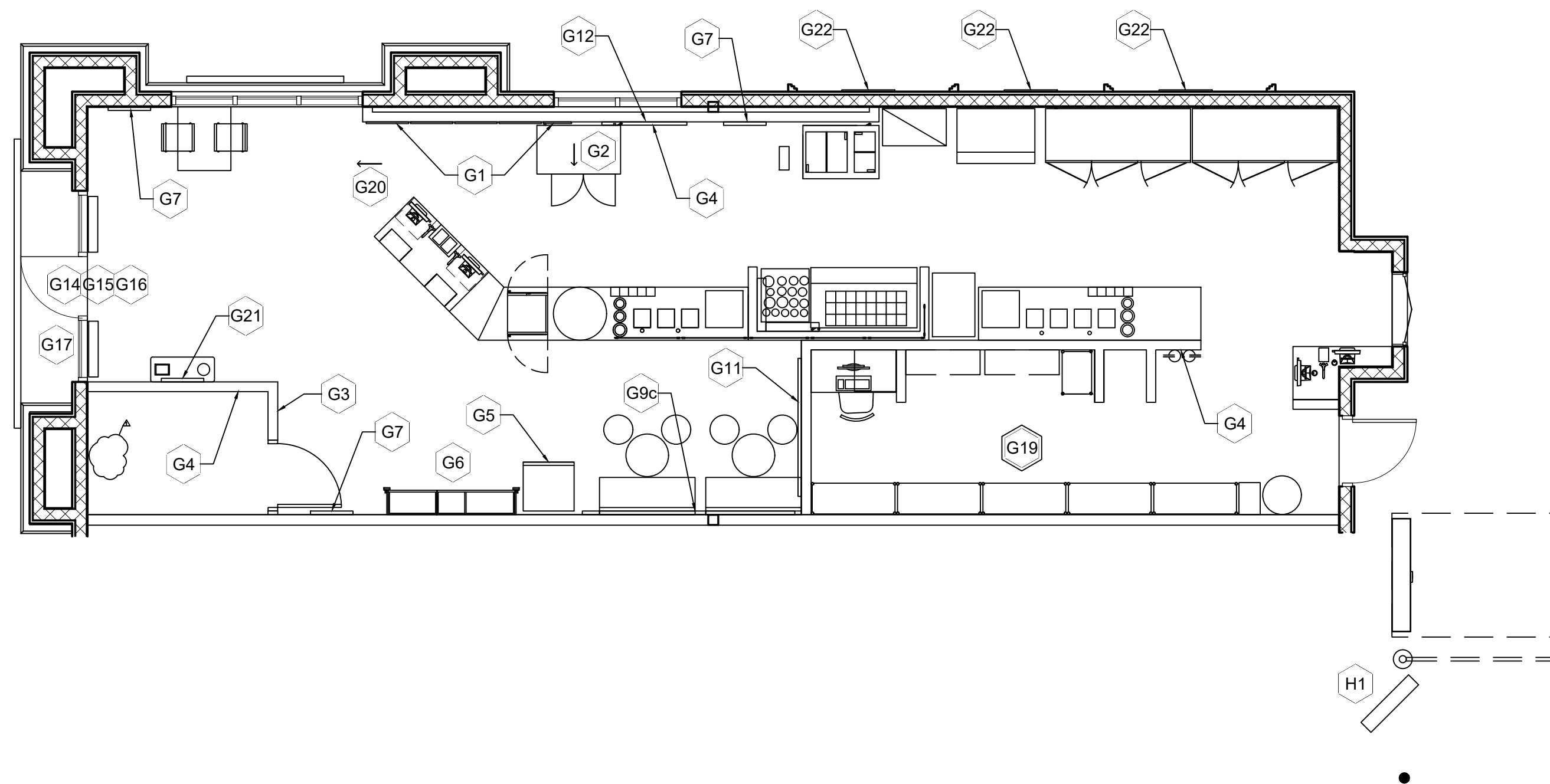
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GRAPHICS PLAN AND SCHEDULE

sheet number

A-5b

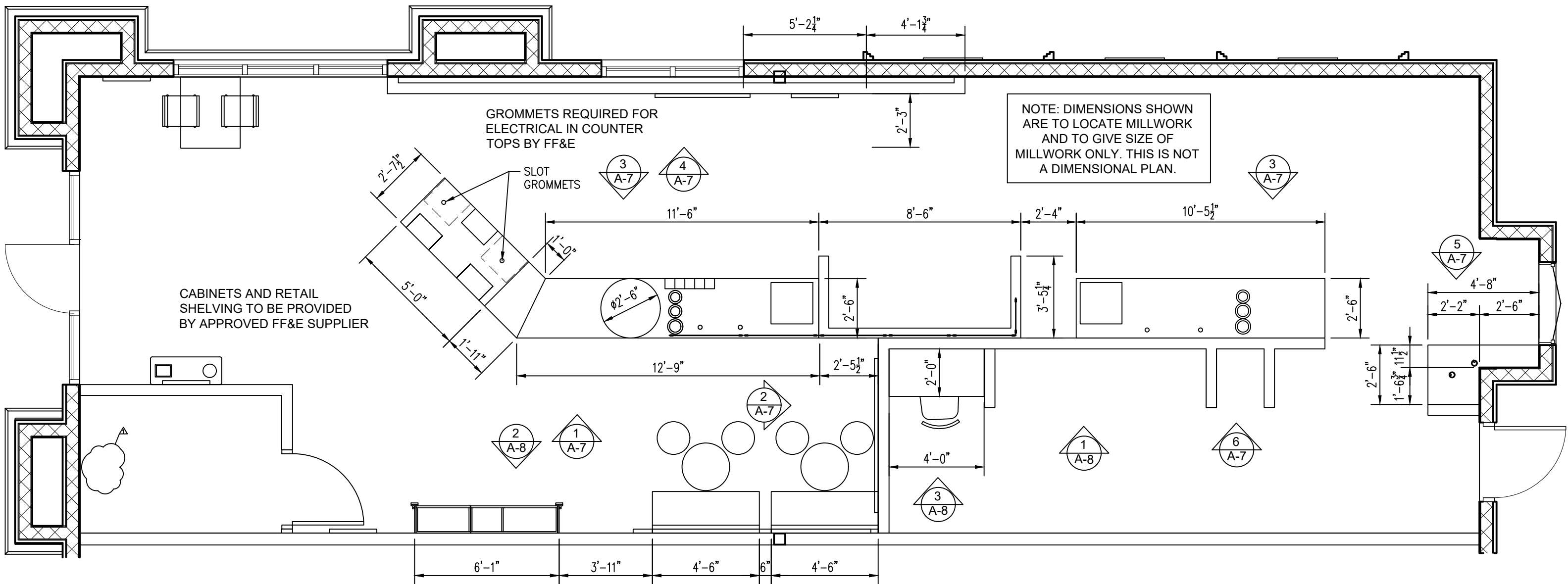


1 SK GRAPHICS PLAN
A-5b 3/16" = 1'-0"

GRAPHIC SCHEDULE (GRAPHICS BY STORE DECOR)						
MARK	QTY	ORDERED BY	INSTALL BY	DESCRIPTION	SIZE	REMARKS
	1	ZEE	G.C.	(SET) OF MENU BOARD TOPS & W/ ENHANCER INSERT & T0 LOGO FOR MENUS.	(4) 24"x48" MENU INSERTS & (1) 15"x48 ENHANCER INSERT	REF - INTERIOR ELEVATIONS FOR MENU BOARD LOGOATIONS.
	1	ZEE	G.C.	HANGING - CUP SIZES SIGN	18" x 14"	TOP OF SIGN @ 9'-0" AFF
	1	ZEE	G.C.	RESTROOM SIGNAGE	12 3/4" x 6"	RESTROOM SIGNS TO BE LOCATED ON WALL BESIDE DOOR HANDLE.
	3	ZEE	G.C.	MUST WASH HANDS	6 1/4" x 2 1/2"	RESTROOM SIGNS TO BE LOCATED 6" ABOVE PAPER TOWEL DISPENSER
	1	ZEE	G.C.	DISPLAY REFRIG. HEADER SIGNAGE	VARIES DEPENDENT ON MODEL OF REFRIG.	CONFIRM MODEL # OF DISPLAY REFRIG. WITH ORDERING ON A-7
	1	ZEE	G.C.	(SET) VERTICAL SHELVING HEADERS	MEASURED IN FIELD	INSTALL ON WALL MOUNTED RETAIL CABINET DOORS
	3	ZEE	G.C.	INTERIOR POSTERS	36 1/2" x 24"W	REF EQUIP., PLAN & INT. ELEVATIONS FOR LOCATIONS
	0	ZEE	G.C.	BIKER GRAPHIC	144" WIDE	LOCATED IN CUSTOMER AREA - DET EXCESS INSIDE WALL CORNER
	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	72"W VERSION	REF PROFESSIONAL TO INSTALLED ELEVATIONS
	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	96"W VERSION	LOCATED IN CUSTOMER AREA - ELEVATIONS
	1	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	120"W VERSION	LOCATED IN CUSTOMER AREA - ELEVATIONS
	0	ZEE	G.C.	PURPOSE GRAPHIC WALLCOVERING	192"W VERSION	LOCATED IN CUSTOMER AREA - ELEVATIONS
	0	ZEE	G.C.	8' WHITE CROWN GRAPHIC	96" WIDE	REF ELEVATIONS FOR EXACT LOCATION
	1	ZEE	G.C.	6'-6" WHITE CROWN GRAPHIC - CUT TO FIT ON SITE	78" WIDE	REF INTERIOR ELEVATIONS FOR EXACT LOCATIONS
	1	ZEE	G.C.	RULE THE DAY GRAPHIC	4' WIDE WITH CROWN STACKED OVER "DAY"	REF INTERIOR ELEVATIONS FOR EXACT LOCATION
	0	ZEE	G.C.	RED WALL ACTIVE GRAPHIC	41' x -"	REF INTERIOR ELEVATIONS FOR EXACT LOCATIONS
	1	ZEE	G.C.	SK VINYL STORE HOURS GRAPHIC	15" x 10"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
	1	ZEE	G.C.	VINYL SK LOGO	16" x 12-1/4"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
	1	ZEE	G.C.	VINYL NO SMOKING GRAPHIC	6"X 9"	LOCATED ON STORE FRONT DOOR - REF 3/A-2
	1	ZEE	G.C.	WIFI GRAPHIC	VARIES	LOCATED ON STOREFRONT GLAZING - COORDINATE W/ ZEE ELEVATIONS
	0	ZEE	G.C.	RED WINDOW ACTIVE GRAPHIC	1'-8 1/2" x 9"	LOCATED ON STOREFRONT GLAZING - REF 3/A-2 TYP.
	1	ZEE	G.C.	(KIT) SK LABEL KIT	VARIES	COORDINATE W/ SK OPENING SUPPORT FOR PLACEMENT
	1	ZEE	G.C.	BEGIN HERE SIGN		TOP OF SIGN @ 9'-0" AFF
	1	ZEE	G.C.	MAGNETIC MARKER BOARD	24"x36"	REF ELEVATIONS - BIM OF CHALK BOARD AT 4' AFF
	2	ZEE	G.C.	EXTERIOR POSTERS	48 1/2" x 36"W	EXTERIOR - BIM OF POSTER FRAMES AT 4' AFF
	0	ZEE	G.C.	4' TALL ACTIVE STENCIL GRAPHIC	VARIES	REF EXTERIOR ELEVATIONS FOR EXACT LOCATIONS - PANT 2-2
	0	ZEE	G.C.	ENTRY VESTIBULE GRAPHIC	78" x 222"	LOCATED IN ENTRY VESTIBULE - CUT OUT EXCESS GRAPHIC EDGE IN FIELD - (HRC PROFESSIONAL)
	0	ZEE	G.C.	CUP CABINET GRAPHIC	VARIES	CONFIRM SIZE WHEN ORDERING
GRAPHIC SCHEDULE (GRAPHICS BY HOWARD COMPANY)						
MARK	QTY	ORDERED BY	INSTALL BY	DESCRIPTION	SIZE	REMARKS
	1	ZEE	G.C.	PRE-ORDER MENU BOARD GRAPHIC	N/A	GRAPHIC INSERT FOR PRE-ORDER MENU BOARD SUPPLIED BY HOWARD (www.howardskstore.com)

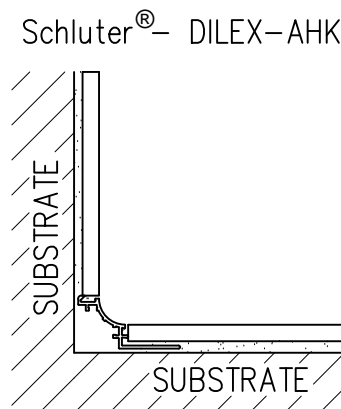
NOTE: REF INTERIOR ELEVATIONS ON SHEETS A-7 & A-8
 ** ↑ DIRECTIONAL ARROW DENOTES SIGN ORIENTATION **

FINISHES SCHEDULE					
MARK	PROVIDED BY	DESCRIPTION	MANU-FACTURER	COLOR AND SIZE	COMMENTS
P-1	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	ALABASTER 7008 (OFF WHITE)	USED ON ALL SOFFITS (ALL SIDES) USE ON WALLS IN RETAIL AND SERVICE AREA WHERE NOTED; USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
P-2a	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	RED BAY 6321 (RED)	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM THREE COATS OF PAINT- SEE PLAN FOR ART DECO WALL
P-3	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	TOTALLY TAN 6115 (MEDIUM TAN)	USED IN OFFICE; USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
P-4	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS	RUSTIC RED SW7593 LRV 8%	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT - EXTERIOR
P-5	G.C.	DURATION HOME SATIN	SHERWIN WILLIAMS 800-933-8453	INTERACTIVE CREAM 6113 (LIGHT TAN)	USE ONE COAT OF MULTI PURPOSE LATEX PRIMER WHITE BEFORE PAINTING; USE MINIMUM TWO COATS OF PAINT
WT-1	G.C.	WALL TILE GLAZED CERAMIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	AGELESS 4"x 12" (WHITE GLOSSY) NOTE: KITCHEN AREA	GROUT: LATICRETE PERMACOLOR SELECT GROUT: COLOR #35 MOSHA
WT-2	G.C.	WALL TILE GLAZED CERAMIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	AGELESS 8"x 16" (WHITE GLOSSY)	GROUT: LATICRETE PERMACOLOR SELECT GROUT: COLOR #44 BRIGHT WHITE
WT-3	G.C.	WALL TILE GLASS MOSAIC TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	BLOSSOM RED GLASS MOSAIC 12" X 12" (GLOSSY) NOTE: RESTROOM WET WALLS FLOOR TO CEILING	GROUT: LATICRETE PERMACOLOR SELECT BASE W/ LATICRETE NISSAN RED GROUT ADDITIVE
FRP	G.C.	FIBERGLASS PANEL	KEMULITE 800-435-0080	GLASBORD-P, CLASS C, .09", 85 WHITE	PEBBLED EMBROSSED FINISH W/ MATCHING TRIM TO FINISH EXPOSED EDGES AND SEAMS (OR EQUAL) B.O.H. FLOOR TO CEILING
B-1	G.C.	6" H X 4" PORCELAIN TILE COVE BASE	CREATIVE MATERIALS CORPORATION 518.452.9694	RIO WHITE 3/16" GROUT JOINTS	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- FRONT OF HOUSE AND RESTROOM
B-2	G.C.	RUBBER BASE	ROPPE	6" COVE RUBBER BASE - 125 FIG	USED AT BACK ROOM AND OFFICE AREAS
B-3	G.C.	SCHLUTER COVE BASE STRIP	SCHLUTER	SCHLUTER - DILEX-AHK IS 100 ATGB	IF ACCEPTABLE BY LOCAL JURISDICTION USED ON ALL TILE WALLS (REFERENCE 1/A-6 AND ELEVATIONS)
B-4	G.C.	COVE BASE	CREATIVE MATERIALS CORPORATION	GRAY SMOOTH 6" X 6"	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- BACK OF HOUSE
CT-1	G.C.	6" X 4" AND 8" X 4" PORCELAIN FLOOR TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	RIO WHITE 3/16" GROUT JOINTS	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- FRONT OF HOUSE AND RESTROOM
VCT	G.C.	12" X 12" VINYL COMPOSITION TILE	ARMSTRONG IMPERIAL TEXTURE	STANDARD EXCELON - IMPERIAL TEXTURE - 51901 - TAUPE	USED AT BACK ROOM AND OFFICE AREAS
QT-1	G.C.	QUARRY TILE	CREATIVE MATERIALS CORPORATION 518.452.9694	GREY ABRASIVE 6" X 6"	GROUT COLOR #78 STERLING SILVER BY LATICRETE PERMACOLOR SELECT- BACK OF HOUSE
FINISHES NOTES					MILLWORK NOTES
PAINT NOTES: SOURCE THROUGH LOCAL SHERWIN WILLIAMS STORES, FOR PRICING GIVE DISCOUNT CODE: 3356-9521-9 CERAMIC TILE NOTES: SOURCE THROUGH CREATIVE MATERIALS CORPORATION FOR ESTABLISHED NATIONAL ACCOUNT PRICING CONTACT ALLISON PICHE (APICHE@CREATIVEMATERIALSCORP.COM) PHONE: 518.713.5395 NOTE: (ALL DRYWALL FINISHING AT FRONT OF STORE TO BE LEVEL 4; ALL BACK OF STORE DRYWALL FINISHING TO BE AT LEVEL 2) ALL WALL FINISHES IN FRONT OF STORE AND RESTROOM SHALL BE FLOATED SMOOTH & PAINTED WITH A MEDIUM 3/8" NAP ROLLER TO CREATE A LIGHT ORANGE PEEL FINISH					1. JOINTS SHOULD HAVE PROPER FIT, WITH NO OPEN SPACE AT THE JOINTS. TOP EDGES OF COUNTER TOP JOINTS SHOULD BE CLEAR SILICONE SEALED AT ANY JOINT. 2. COORDINATE SIZE OF CUP HOLDERS, IN -COUNTER BLENDERS, LID HOLDER, ICE BIN, ETC. WITH CUT OUTS PRIOR TO CUT OPENINGS. 3. COORDINATE LOCATION OF ELECTRICAL OUTLETS WITH LOCATION OF EQUIPMENT. 4. GENERAL CONTRACTOR SHALL PROVIDE BACKING FOR CASEWORK, AS REQUIRED. 5. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR CASEWORK WITH CASEWORK VENDOR AND REPORT DISCREPANCIES OR CONFLICTS IMMEDIATELY TO SMOOTHIE KING. 6. ALL CABINET WORK SHALL COMPLY WITH AWW CUSTOM GRADE. UNLESS NOTED OTHERWISE, CABINETRY SHALL BE STANDARD PLASTIC CLAD CASE GOODS, LAMINATE INTERIORS. 7. ALL CASEWORK SET ON FLOOR TO BE SEALED TO FINISHED FLOOR PRIOR TO INSTALLING COVE BASE - USE CLEAR SILICONE.

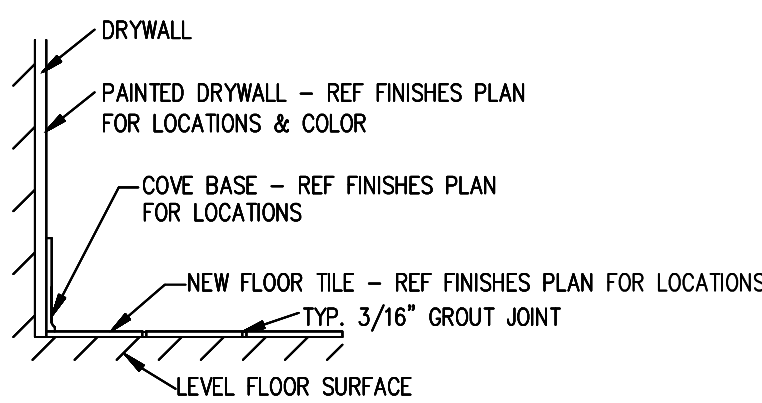


2 MILLWORK PLAN
1/4" = 1'-0"

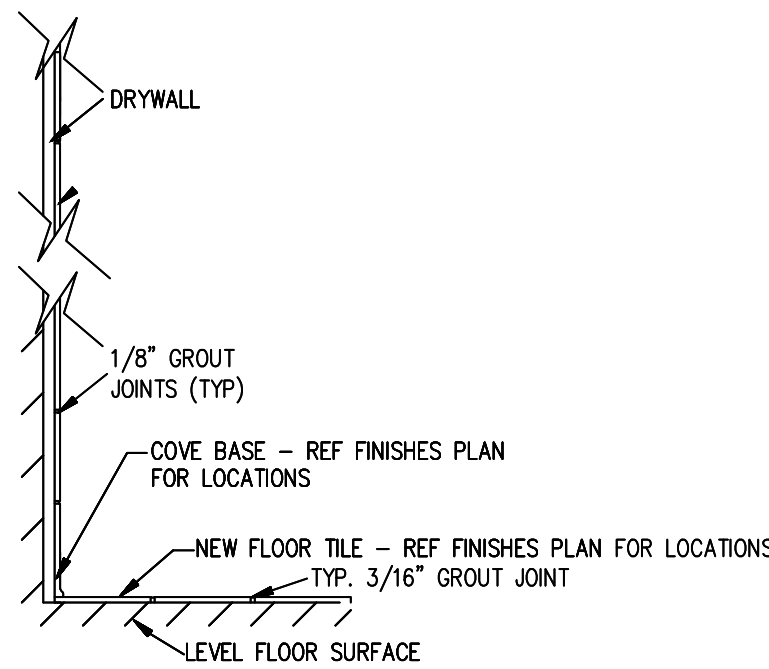
FF&E VENDOR WILL PROVIDE EQUIPMENT AND CABINETRY. FRANCHISEE TO COORDINATE BETWEEN GC AND FF&E VENDOR AS TO WHEN FF&E VENDOR IS TO INSTALL CABINETRY AND EQUIPMENT. GENERAL CONTRACTOR TO PROVIDE POWER AND WATER CONNECTIONS TO ALL THE EQUIPMENT IN THE MILLWORK, ALSO PROVIDE FINAL ELECTRICAL AND PLUMBING HOOK-UPS.



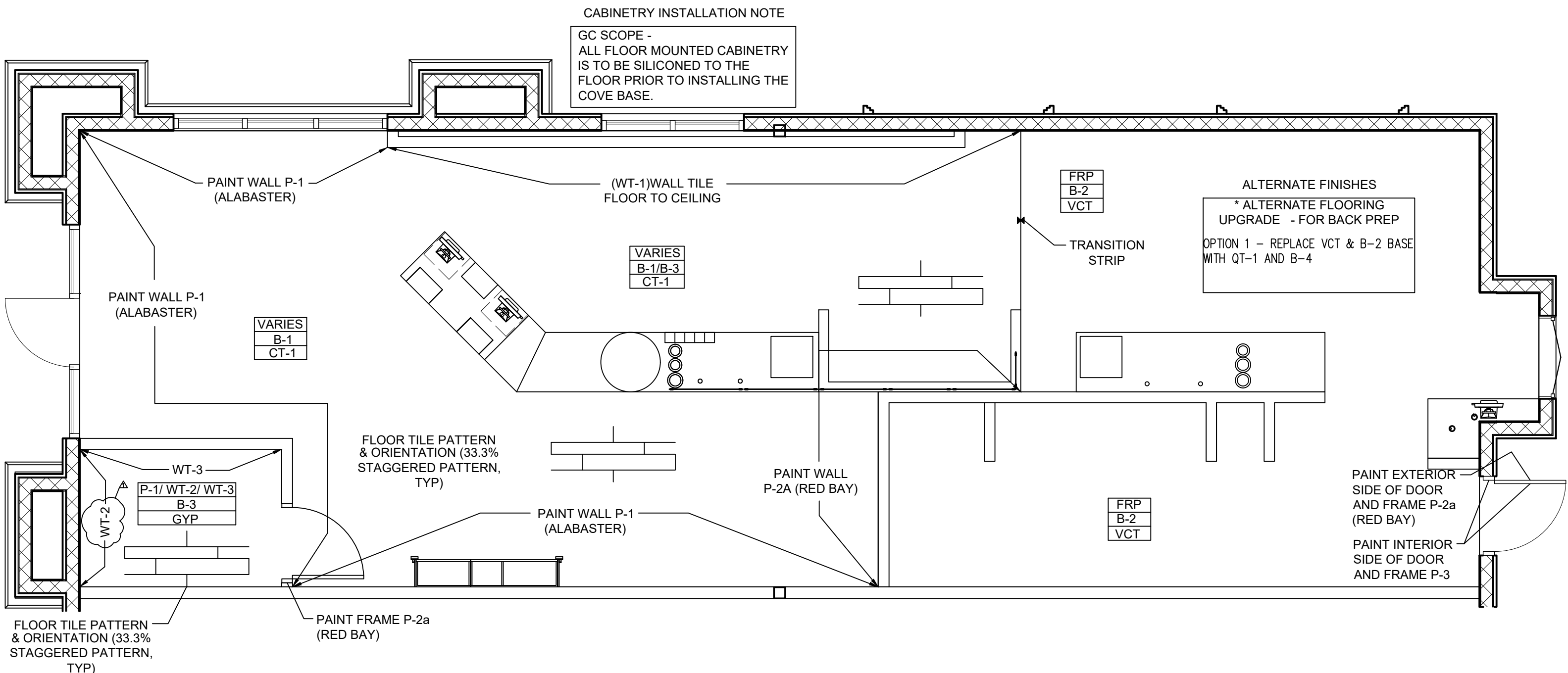
5 SCHLUTER BASE DETAIL
NOT TO SCALE



4 BASE TILE DETAIL
NOT TO SCALE



3 WALL TILE
NOT TO SCALE



1 FINISH PLAN
1/4" = 1'-0"



SMOOTHIE KING (#1545)

1440 NE DOUGLAS ST.
LEES SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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02.11.22

project number 2021-099

date 1/4/22

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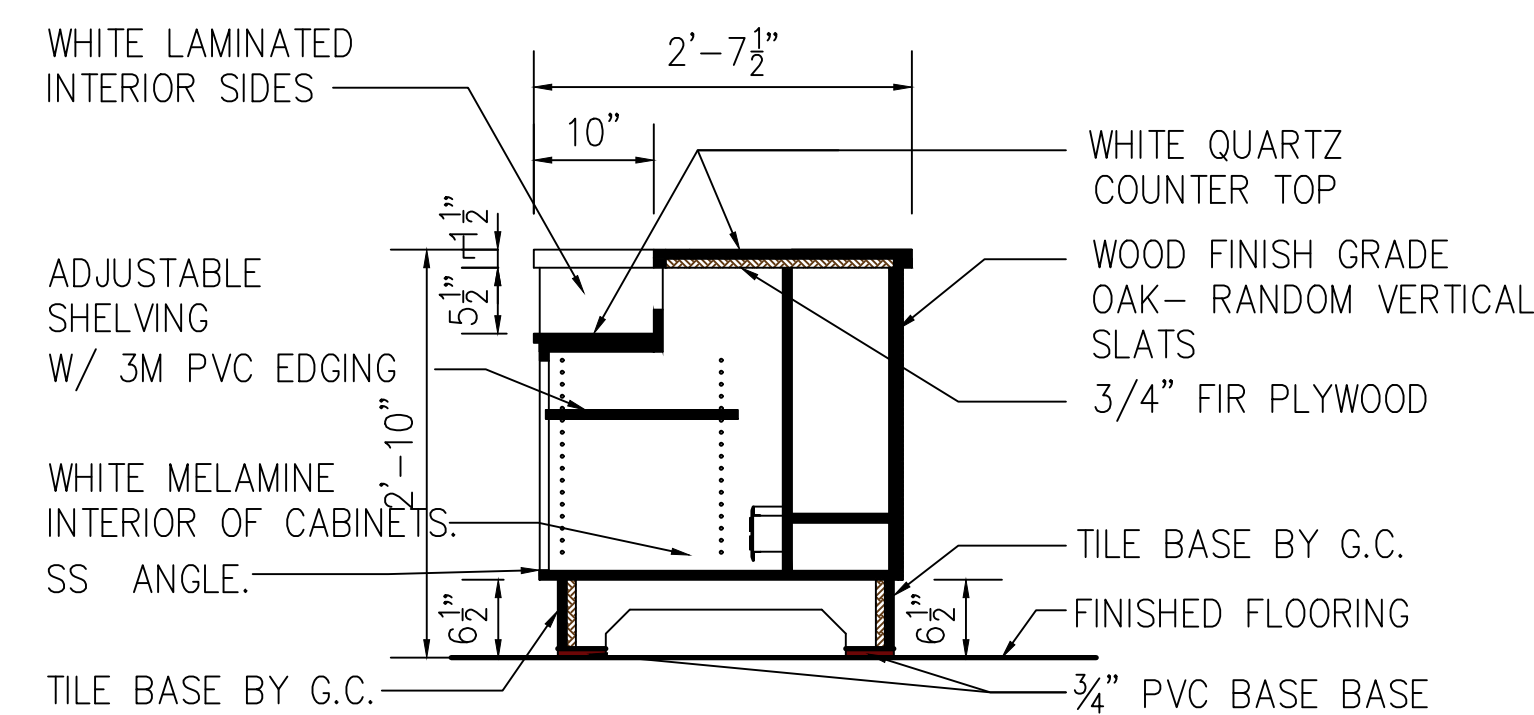
1 01.10.22 City Comments

FINISH,
MILLWORK PLAN,
SCHEDULES

sheet number

A-6

A-7



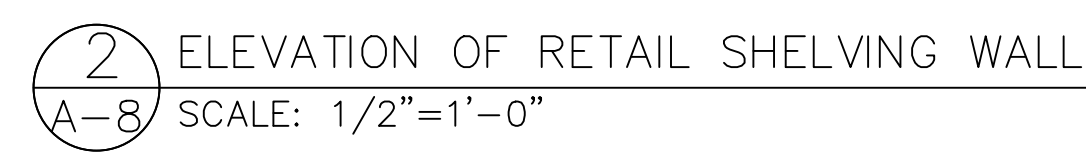
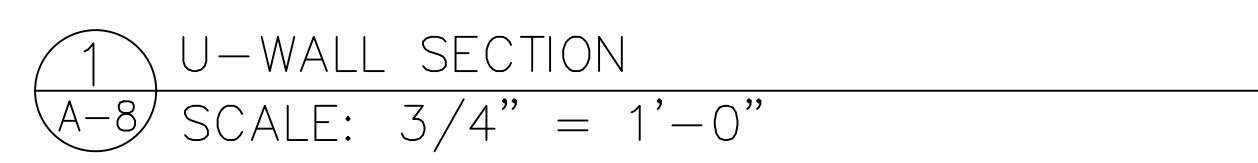
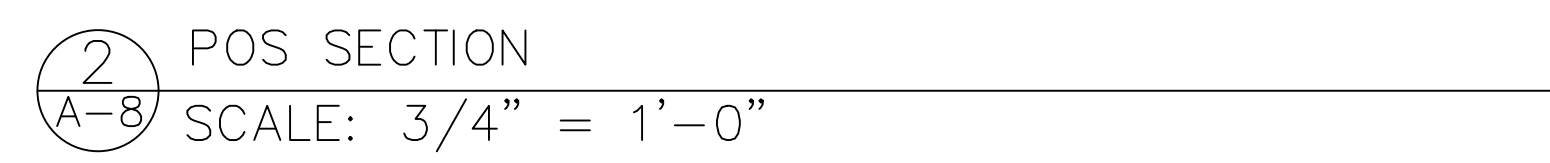
4 PAY ORDER AT PRINTER SECTION
A-8 SCALE: 3/4" = 1'-0"

1. 1X4 SUBFRAME
 2. 2X4 SUBFRAME
 3. COUNTER TOP CONSTRUCTED OF 3/4 " PLYWOOD W/ LAMINATE AND PVC EDGING
 4. DEDICATED ELECTRICAL OUTLET 20 AMP FOR POS & COMPUTER GROUNDING TYPE BY G.C.
 5. DATA & COMM OUTLET LOCATION
 6. CONVENIENT ELECTRICAL OUTLET 20 AMP BY G.C.
 7. SUPPORTING LEGS AS NEEDED
 8. PATCH PANEL
 9. DEDICATED ELECTRICAL OUTLET 20 AMP FOR POS GROUNDING TYPE AT 78" AFF BY G.C.
 10. 66 PUNCH DOWN BLOCK FOR TELEPHONE COMMUNICATION BY OTHERS
 11. FRP OVER 2'X2' $\frac{3}{4}$ " PLYWOOD BY G.C.
- NOTE: ALL ROUGH IN DATA AND COMM BOXES BY G.C.

COLOR CODE
RED INTERNET
YELLOW UPLINK
BLACK POS (patch)
BLUE PUBLIC (patch)




 ELEVATION OF DESK
 SCALE: 1/2"=1'-0"



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A-8



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2 02.11.22 Drive Thru Adjustment

DRIVE THRU
DETAILS

sheet number

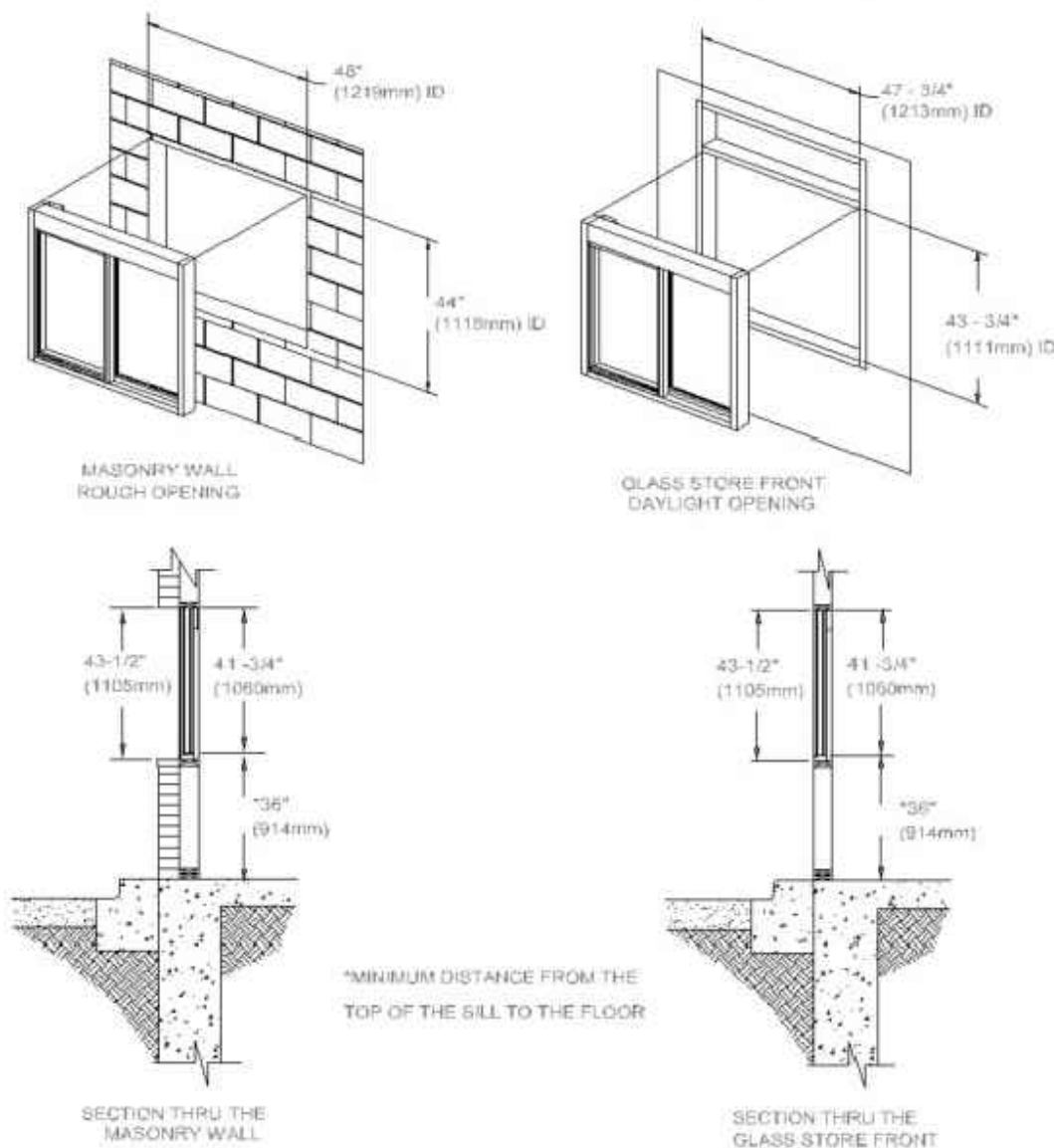
A-9

READY ACCESS 275

Physical Installation

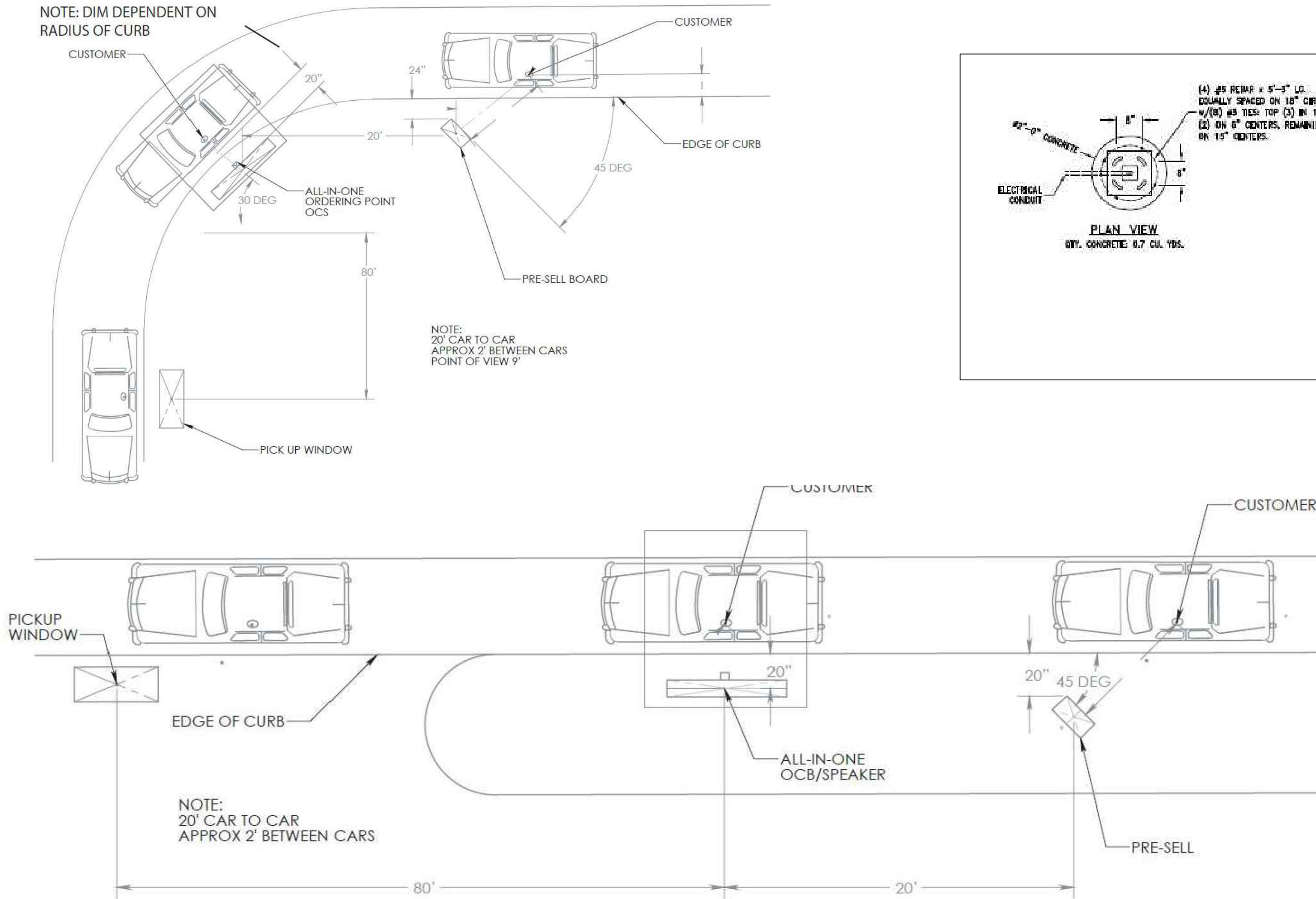
Before you begin installing your Ready Access Drive-Thru Window, you must determine what type of installation will be required. Example: Wood Framing, Masonry Framing, etc. Please refer to the details below and pick which one best fit your application.

See Chart previous pages for Masonry and Glazing Rough Opening Sizes

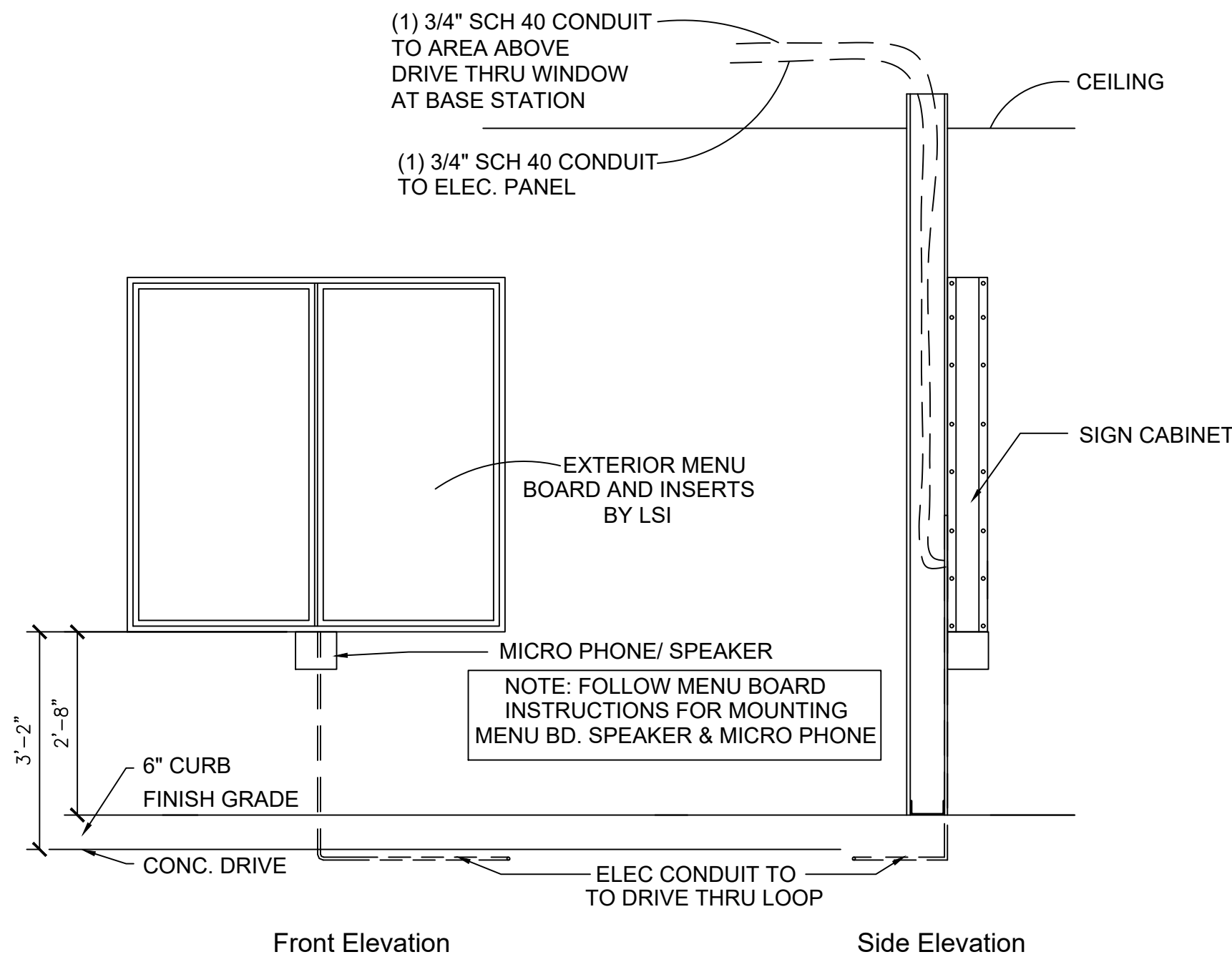


7 DRIVE THRU WINDOW DETAIL
A-9 N.T.S.

NOTE: DIM DEPENDENT ON
RADIUS OF CURB

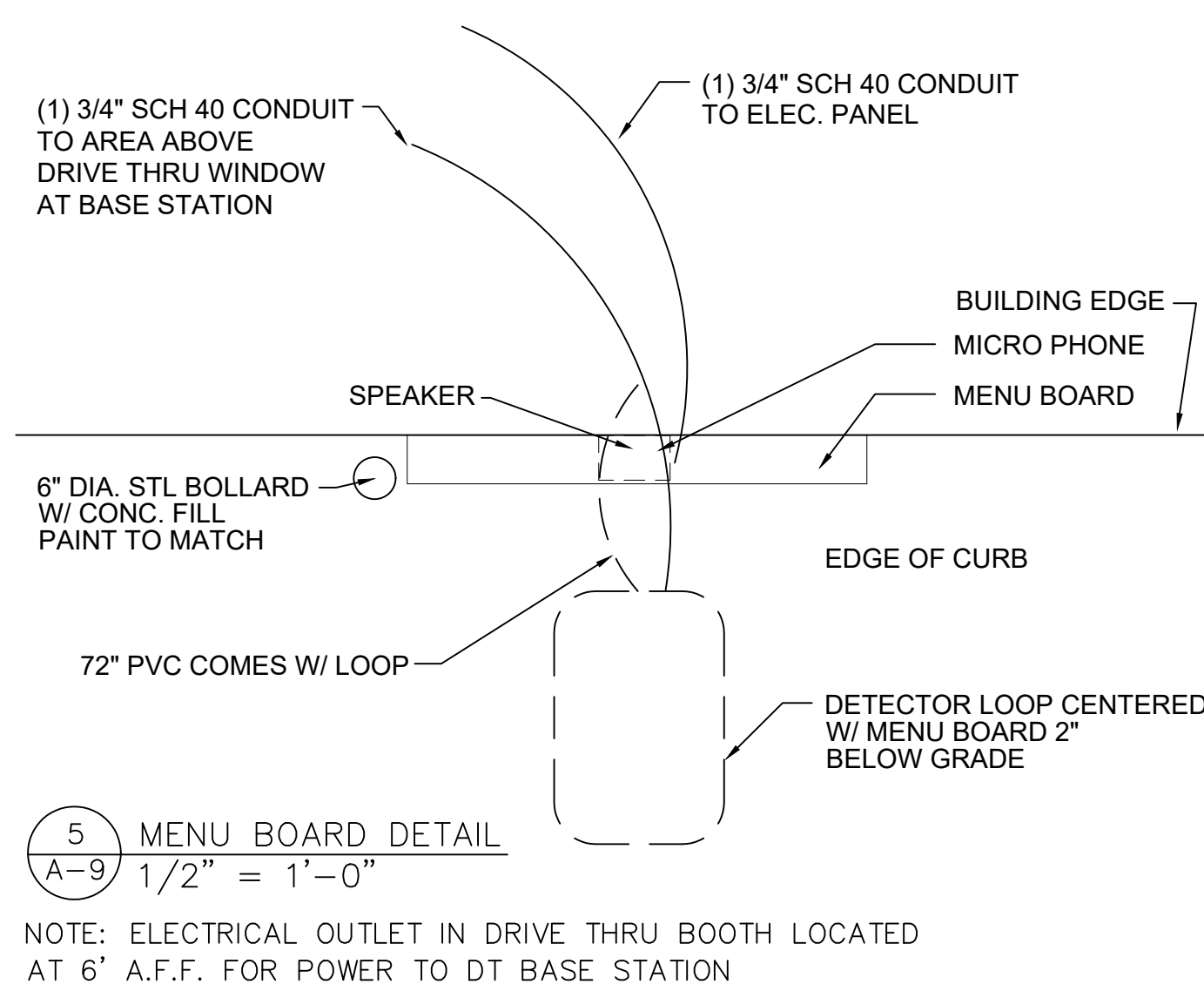


3 TYP - DRIVE THRU MENU BOARD SET UP
A-9 N.T.S.



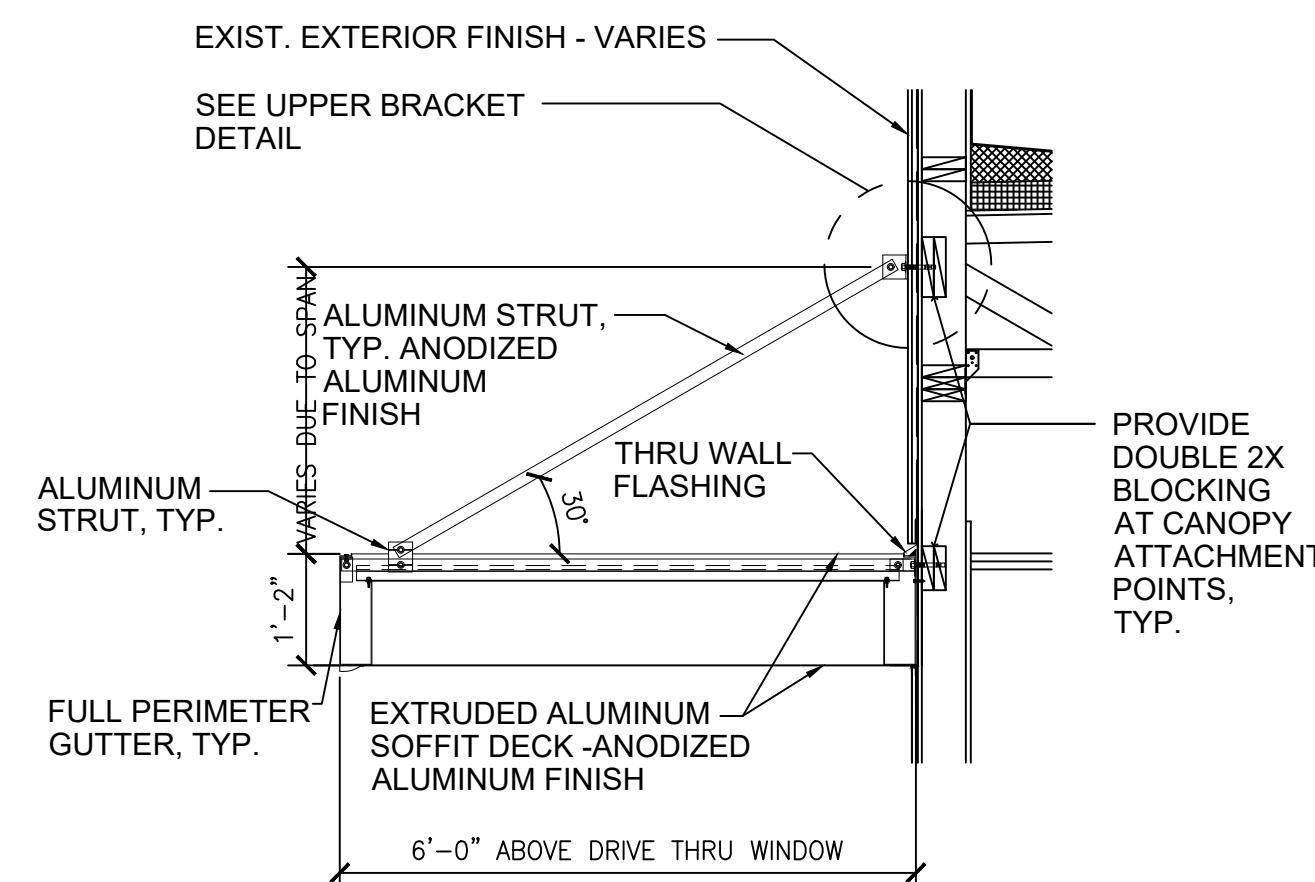
6 EXTERIOR MENU BOARD ELEVATION DETAIL
A-9 1/2" = 1'-0"

DRIVE THRU SCHEDULE			
MARK	PROVIDED BY	INSTALL BY	DESCRIPTION
(A)	ZEE	ZEE	MENU BOARD (CONTACT JENNY @ HOWARD - 262-317-7711)
(B)	ZEE	G.C.	MENU INSERT (DOES NOT INCLUDE ALL SMOOTHIE OPTIONS, BUT DOES INCLUDE TWO PROMOTIONAL GRAPHICS) (CONTACT JENNY @ HOWARD - 262-317-7711)
(C)	ZEE	ZEE	HME BUNDLE (HEADSETS, VEHICLE DETECTION) CONTACT CRAIG AT 770-309-1768
(D)	G.C.	G.C.	DRIVE THRU WINDOW-SEE DETAIL 5/A-9 CONTACT READY ACCESS AT 800-621-5045 FOR WINDOW ORDERS AND NATIONAL PRICING. FOR INSTALLATION DETAILS WEB SITE: WWW.READY-ACCESS.COM

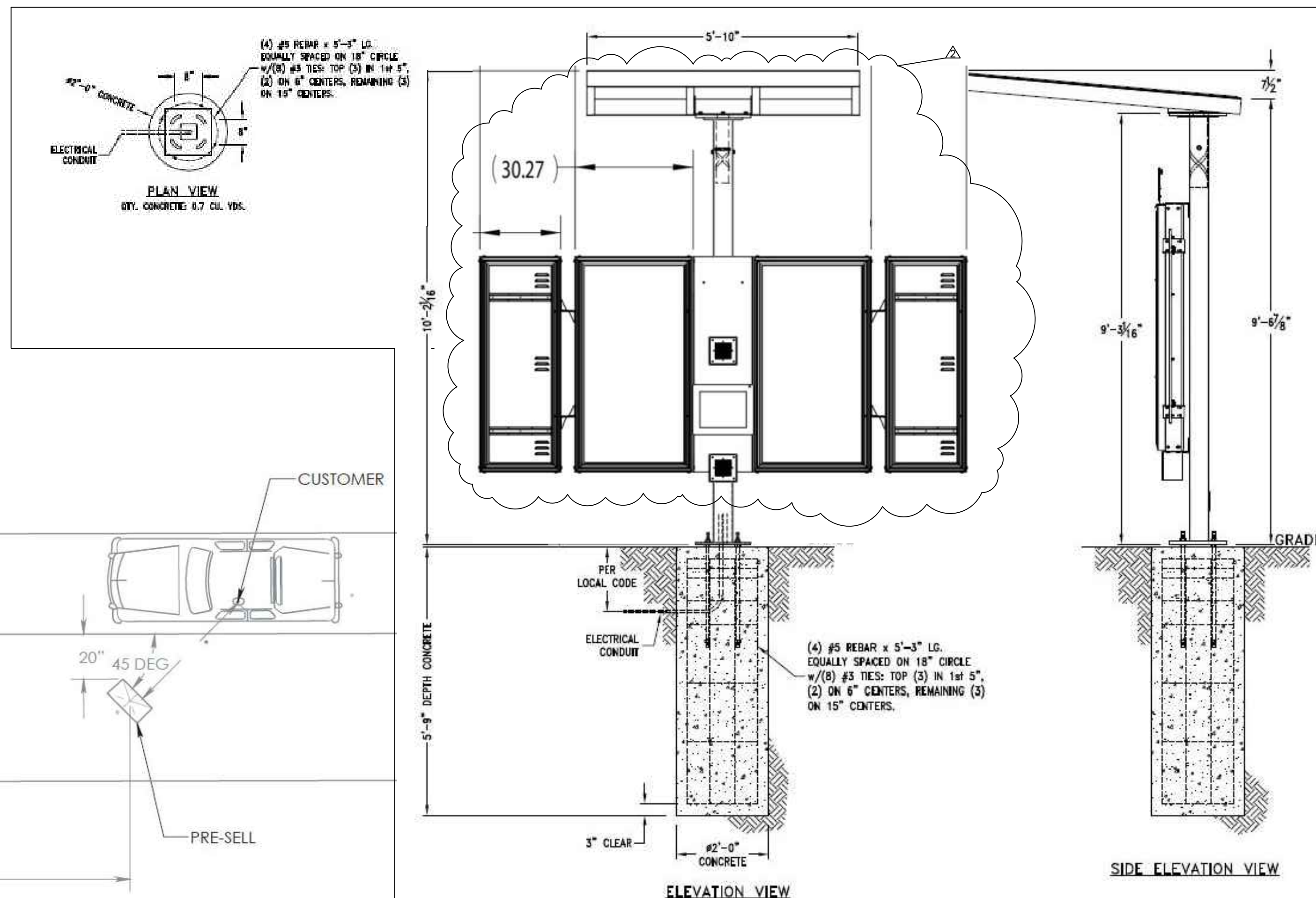


5 MENU BOARD DETAIL
A-9 1/2" = 1'-0"

NOTE: ELECTRICAL OUTLET IN DRIVE THRU BOOTH LOCATED AT 6' A.F.F. FOR POWER TO DT BASE STATION



4 DRIVE THRU AWNING DETAIL
A-9 1/2" = 1'-0"

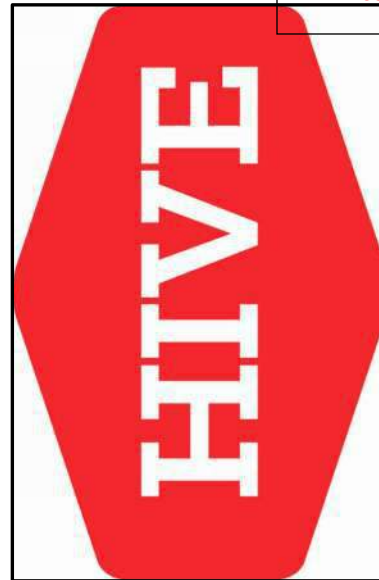


2 EXTERIOR MENU BOARD ELEVATION DETAIL & ANCHOR BOLT
A-9 N.T.S.

(A)(B)(C)

1 ANCHOR BOLT -PRE ORDER
A-9 (A)(B)

(A)(B)(C)



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SMOOTHIE KING

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Bryan Leinwetter - Engineer
MO# PE-2020020297

project number

date 1/4/22

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MEP COVER
SHEET

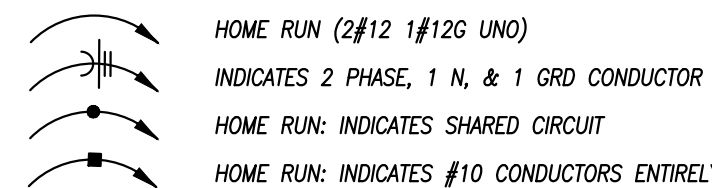
sheet number

ME101

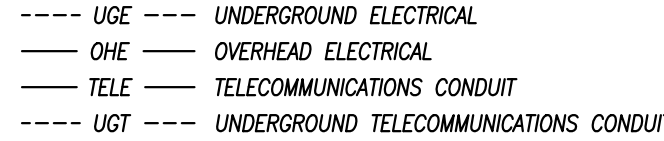
ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

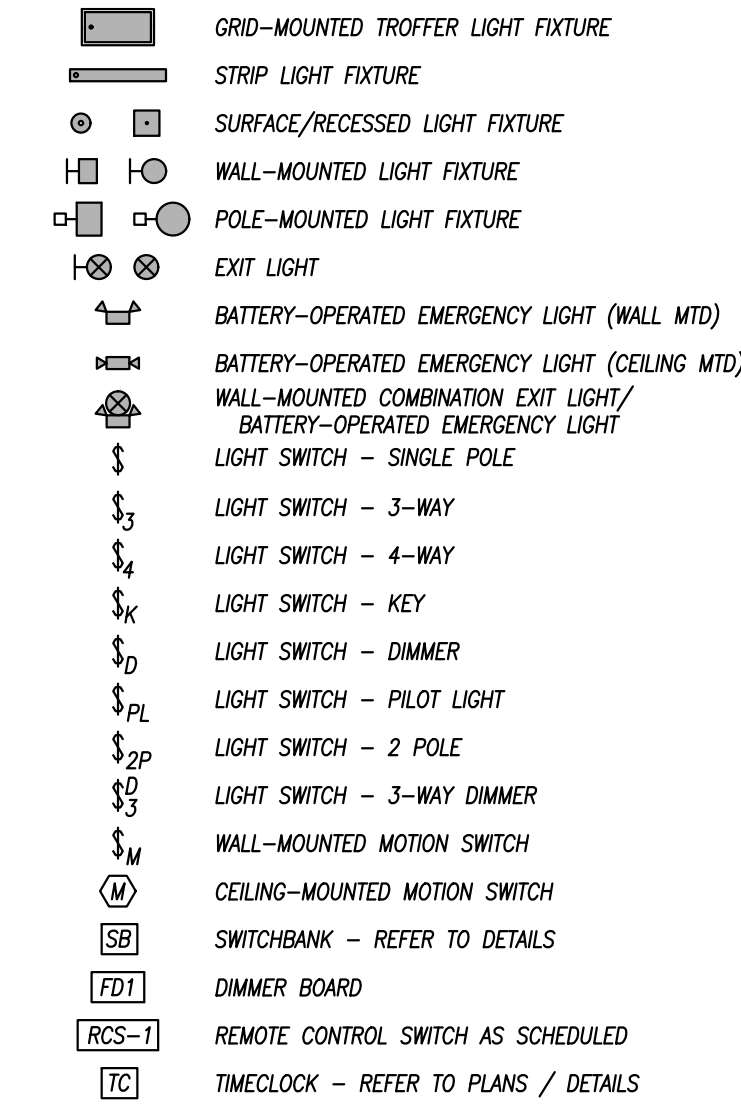
CIRCUITING



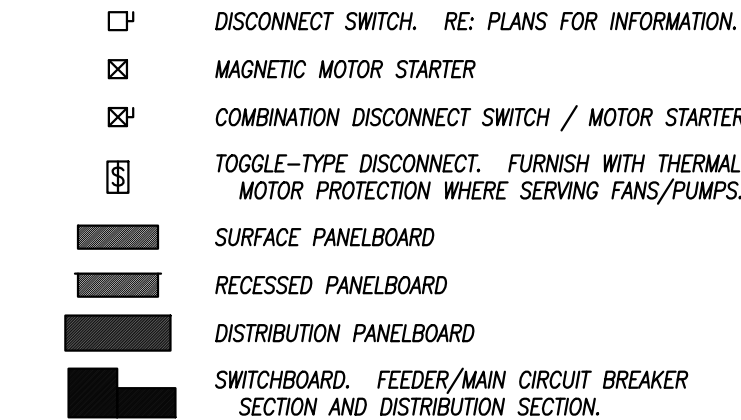
UTILITIES



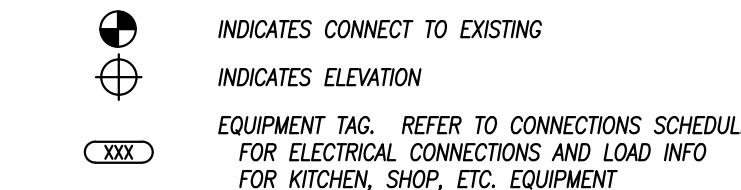
LIGHTING



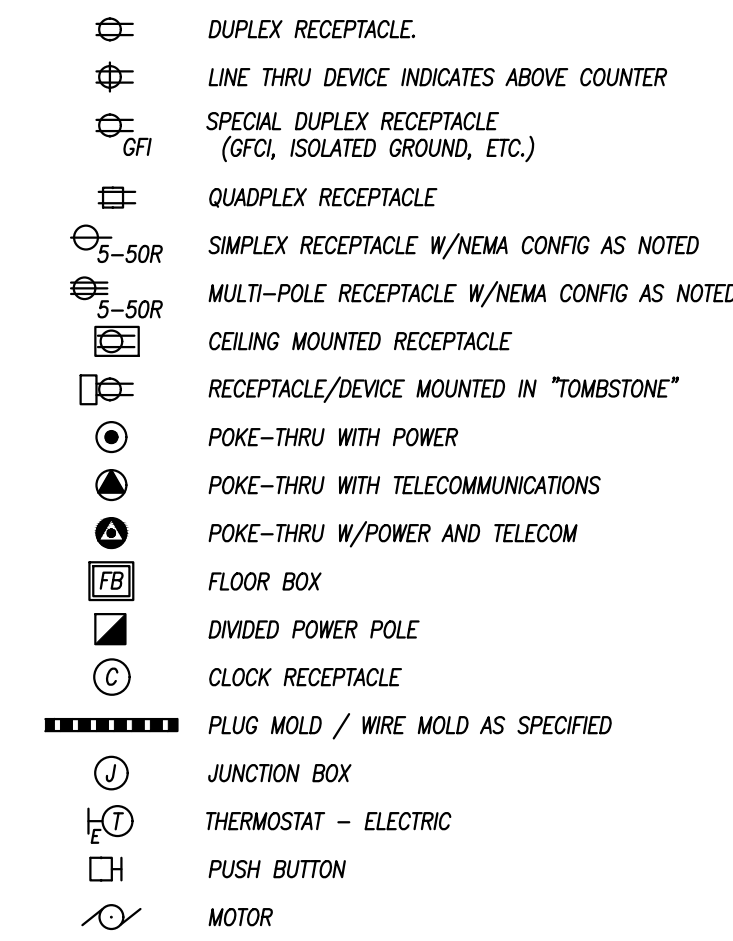
EQUIPMENT



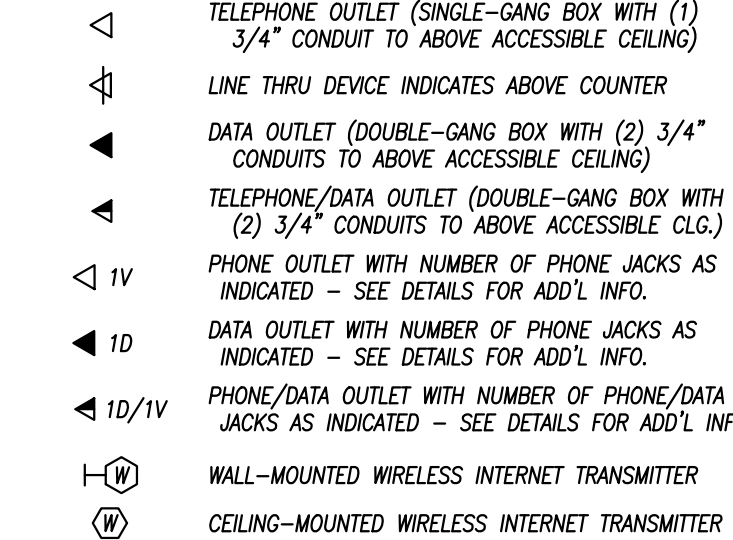
GENERAL SYMBOLS



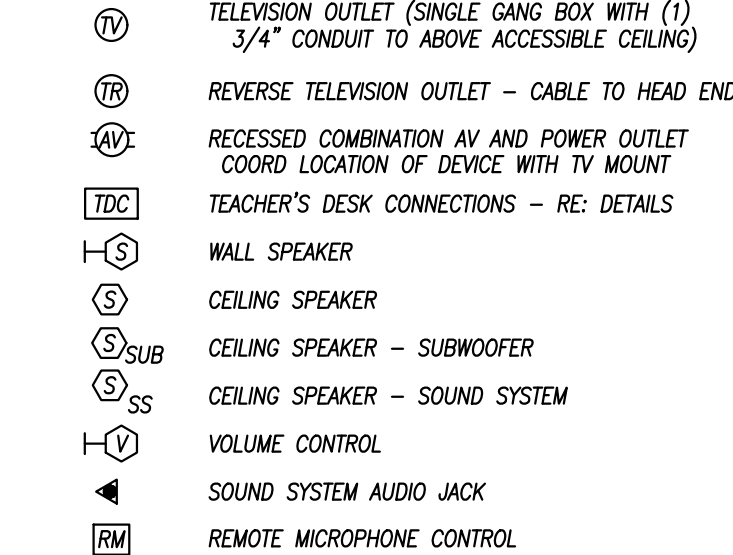
POWER DEVICES



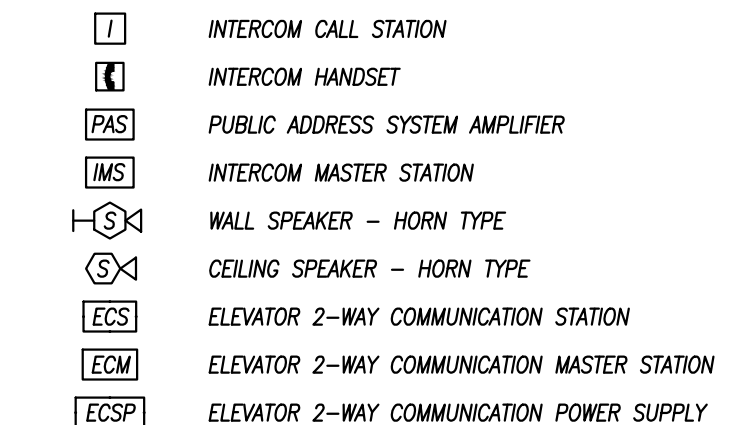
TELEPHONE/DATA



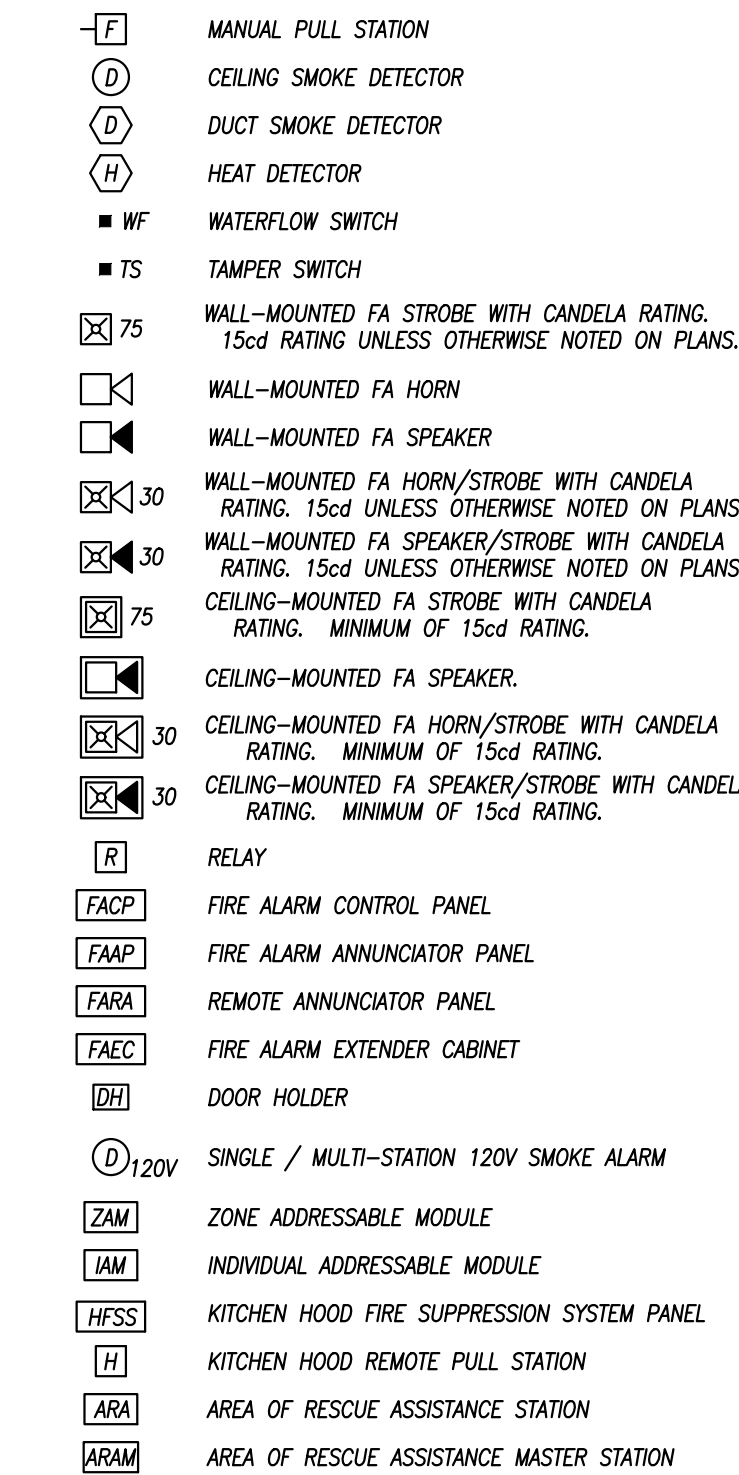
AUDIO/VISUAL



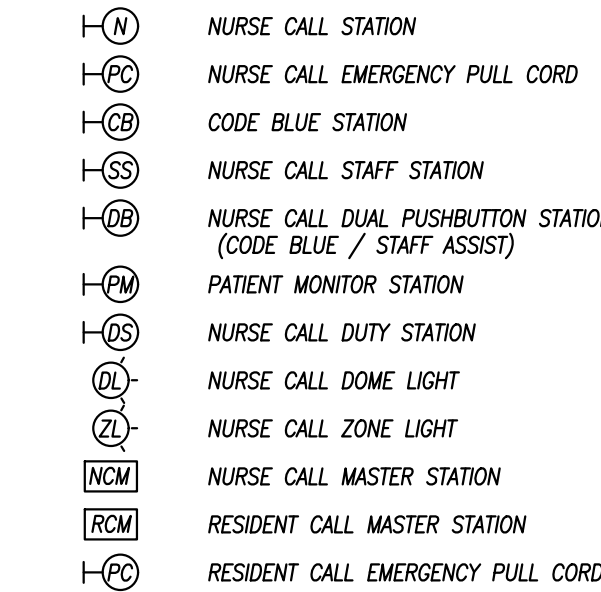
COMMUNICATIONS SYMBOLS



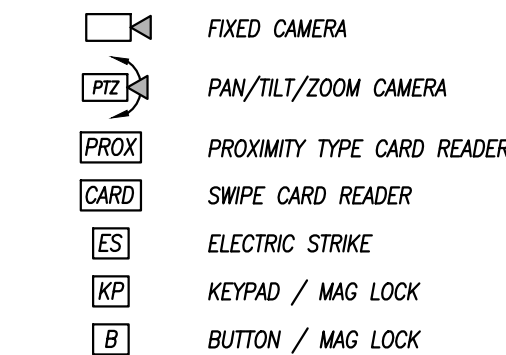
FIRE ALARM



NURSE CALL



SECURITY



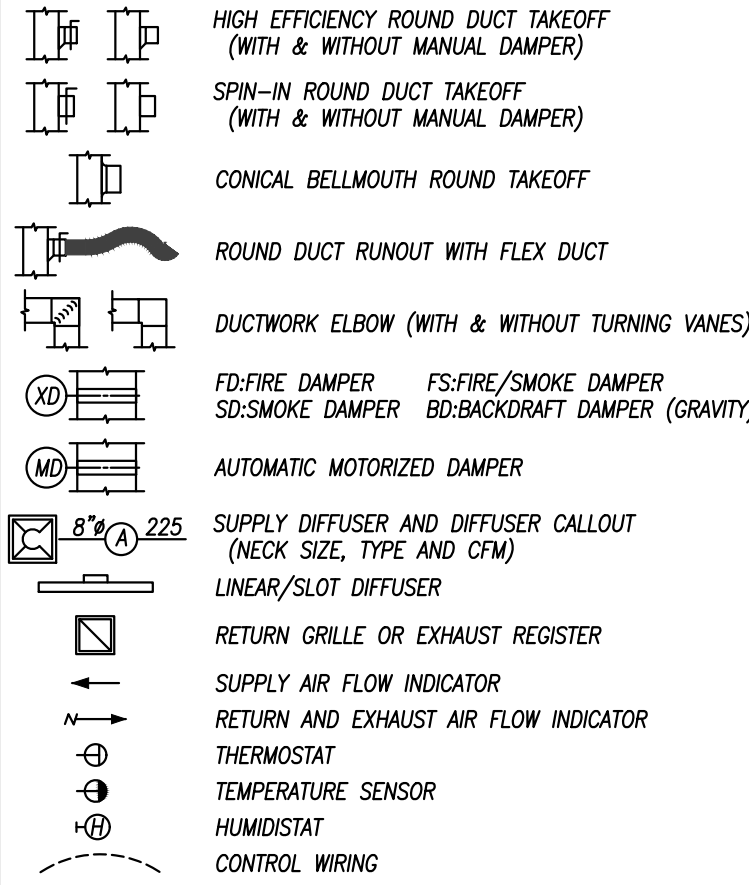
FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INSTALLED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH ULL LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

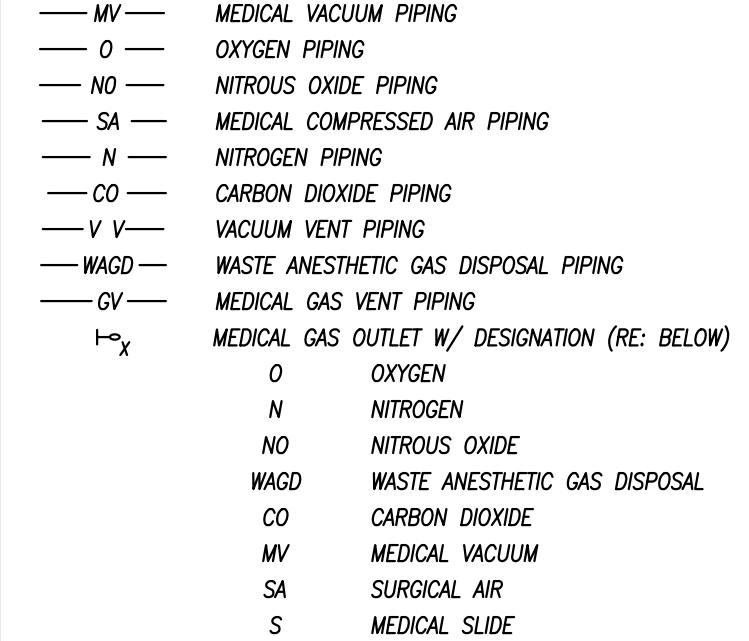
MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

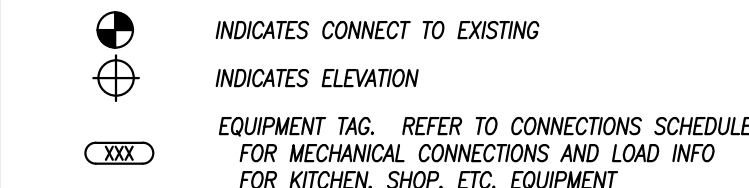
SHEET METAL



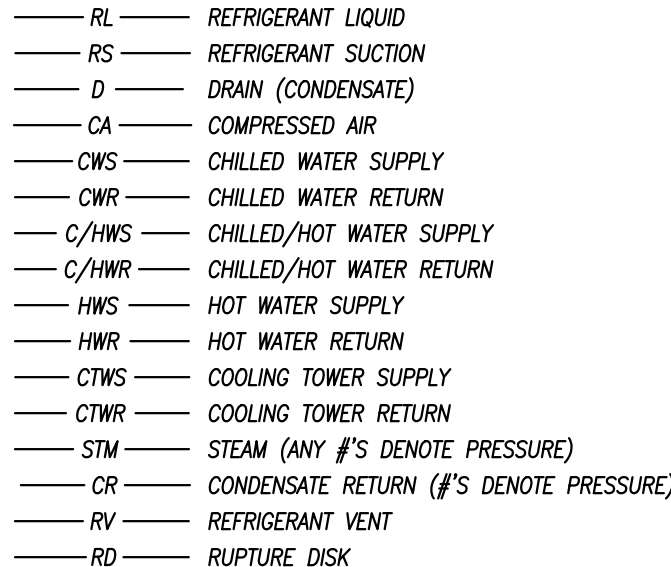
MEDICAL GAS



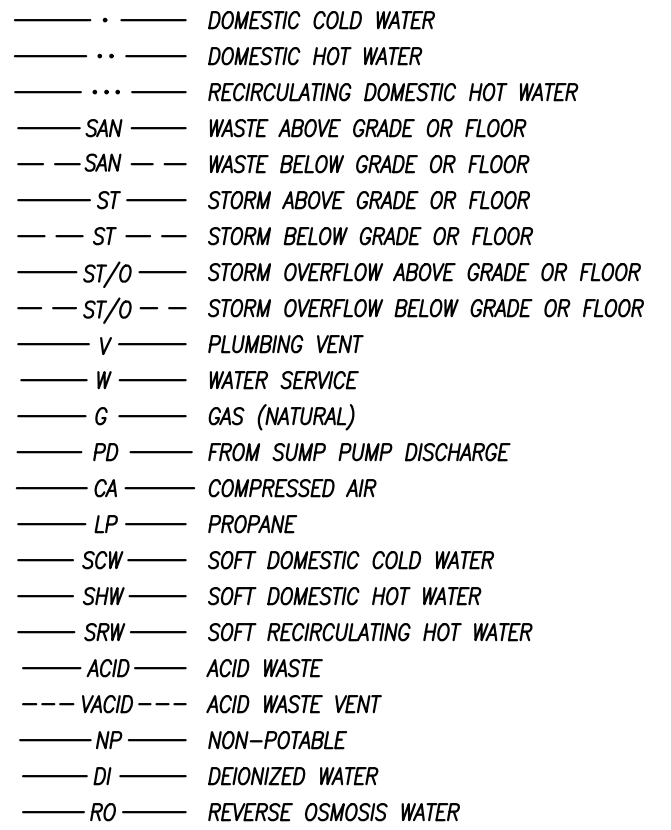
GENERAL SYMBOLS



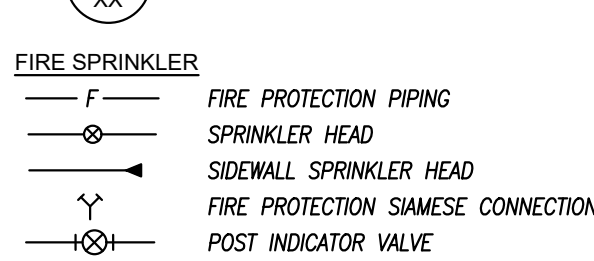
MECHANICAL PIPING



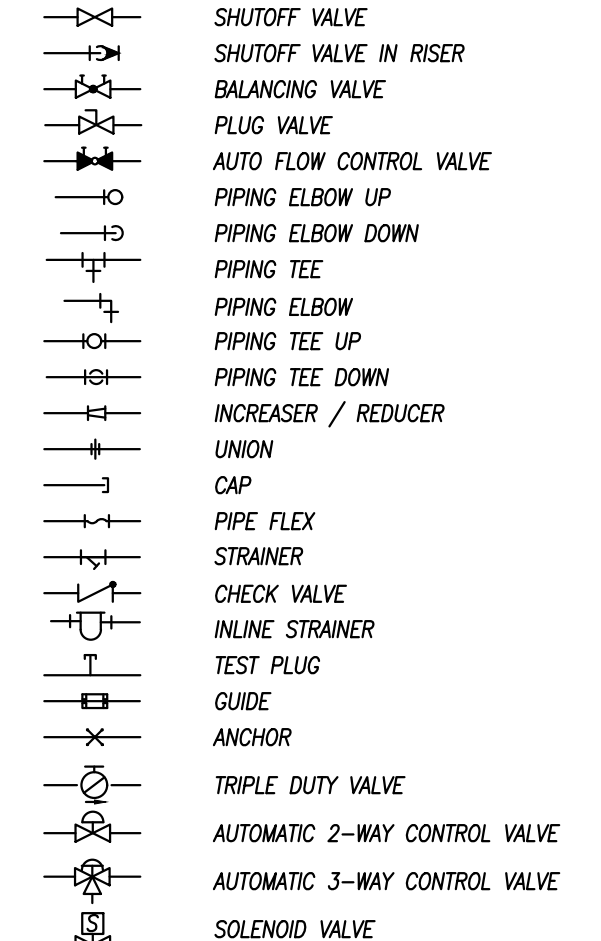
PLUMBING PIPING



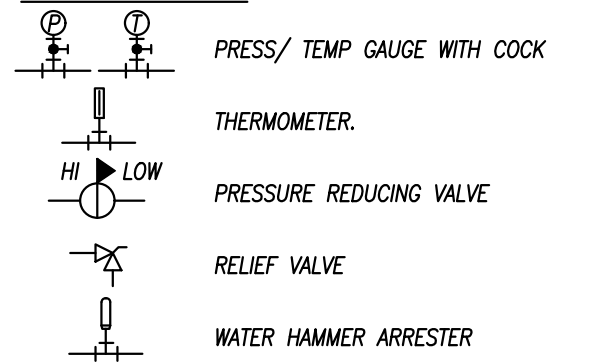
FIRE SPRINKLER



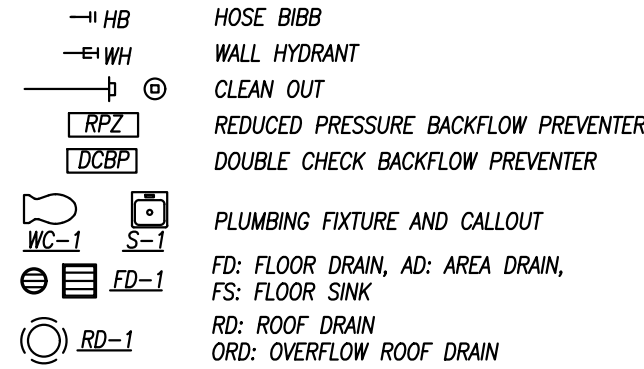
PIPING SYMBOLS



PIPING SPECIALTIES



PLUMBING FIXTURES/EQUIPMENT



GEN. MECHANICAL NOTES

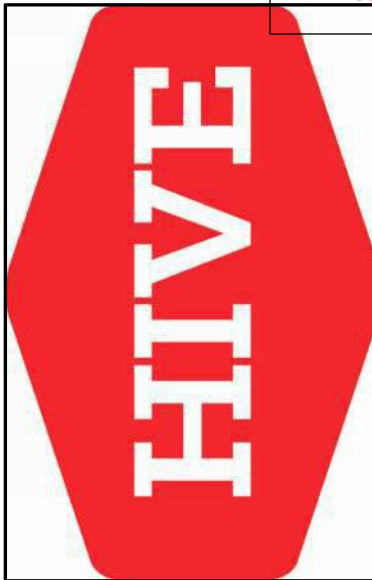
- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
- EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO BE INSTALLED PER IMC 608 AS REQUIRED BY A/H. COORDINATE WITH OTHER TRADES.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL BE SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
 - IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 - IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
 - EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 - AT THE BASE OF EACH WASTE OR SOIL STACK.
 - NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/H.
- COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.



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2333 SW WOODSIDE DR, SUITE C TOPEKA, KS 66614
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MO State Certificate of Authority #E-200202086

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Bryan Leinewetter - Engineer
MO# PE-2020020297

project number

date

1/4/22

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15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 - MECHANICAL REQUIREMENTS

1. GENERAL REQUIREMENTS

- A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.
- C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
- D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- E. FINAL ACCEPTANCE OF WALL SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- F. WARRANT TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
- G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
- H. ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 - PLUMBING

2. PIPING

- A. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER, INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS, THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
- B. WASTE & VENT PIPING - CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS, SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.
3. VALVES
- A. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APPOLO, MUELLER, MUSSOCO, WATTS, HAYS, ROCKWELL-NORDSTROM.
- C. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLOW SEATS, BRONZE BALL & INSULATED HANDLE.
- D. BALANCING VALVES - ARMSTRONG MODEL CBV 1 OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.
- E. CHECK VALVES - 2" & SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLOW OR BRONZE DISC & SEAT RING, 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200 PSI-WOG/125 PSI-WSP.

FIXTURES - SEE SCHEDULES

- A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO
- B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
- C. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.
- D. SEATS: CHURCH, OLSONITE, BEAMS OR BENKE.
- E. DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, OASIS, OR HAWS.
- F. TRIM BY MOEN, DELTA, ELIER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN.
- G. FLUSHVALVES: SLOAN, ZURN, TOTO
- H. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

EQUIPMENT - SEE SCHEDULES

- A. WATER HEATER - STATE, RHEIM, NATIONAL, A.O. SMITH, PORCELAINIZED GLASSLINED TANK, COLD WATER INLET DROP TUBE, MAGNESIUM ANODE RODS, U.L. SEAL, 180 PSI, FACTORY TEMPERATURE & PRESSURE RELIEF VALVE, N.S.F. CONSTRUCTION, 3 YR WARRANTY.
- B. RECIRCULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE, NON-OVERLOADING MOTOR.

EXECUTION

- A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.
- B. AFTER PIPING IS IN PLACE TEST LINES TO INSURE NO LEAKS.
- C. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.
- D. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.
- E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.
- F. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY. LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

SECTION 15300 - HVAC

GENERAL

- A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.
- B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.

DUCTWORK

- A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.
- B. EXPOSED SPIRAL DUCT SHALL BE LEAD-OR APPROVED EQUAL GASKETED STYLE.
- C. VOLUME DAMPERS SHALL BE MANUAL LOCKING BLADE TYPE.
- D. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.
- E. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP) LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ 1/2" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.

SPECIALTIES

- A. FLEXIBLE DUCTS - THERMAFLEX OR EQUAL SOUND RATED TYPE G-KM INSULATED. (DUCT W/0 PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE) TAKE OFF FITTING SHALL BE 14-8FF STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0".
- B. DIFFUSERS & GRILLES - SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAILEY, TITUS, WATZ-ARE, KREUEGER. COORDINATE COLOR, MOUNTING W/ DUCT, CEILINGS, ARCHITECT.

EQUIPMENT

- A. EXHAUST FANS - EQUIVALENT BY COOK, PENN, AOME, GREENHECK, JENNAIRE. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB.
- B. PROGRAMMABLE THERMOSTAT - PROVIDE W/ DOO/UNOCC. PERIODS/DAY, AUTO HEAT/COOL CHANGE OVER, LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, CARRIER OR APPROVED EQUAL.

EXECUTION

- A. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.

SECTION 15900 - SYSTEM TESTING & BALANCING

- A. CONTRACTOR SHALL PROCURE SERVICES OF INDEPENDENT TAB CONTRACTOR WHICH SPECIALIZES IN TAB OF HVAC SYSTEMS, TO BALANCE, ADJUST, & TEST AIR MOVING EQUIPMENT & DISTRIBUTION & EXHAUST SYSTEMS & ALL WATER FLOW CIRCUITS. WORK SHALL BE DONE UNDER ENGINEER EMPLOYED TAB. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED & MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED TESTS SHALL BE CONDUCTED IN PRESENCE OF A/E RESPONSIBLE FOR PROJECT &/OR REPRESENTATIVE. TAB CONTRACTOR SHALL BE CERTIFIED BY NEBB OR AABC & ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ ORGANIZATIONS PUBLISHED PROCEDURE MANUALS.
- B. TESTING & BALANCING (TAB) OF BUILDING HVAC SYSTEMS WILL BE COMPLETED NEAR END OF CONSTRUCTION. W/C HAS RESPONSIBILITY TO COOPERATE W/, MAKE ADJUSTMENTS FOR & PROVIDE EQUIPMENT NECESSARY FOR TAB CONTRACTOR TO COMPLETE JOB.
- C. PRIOR TO REQUESTING TAB CONTRACTOR TO PERFORM WORK, INSTALLING CONTRACTOR SHALL MAKE ALL NECESSARY INSPECTIONS & ADJUSTMENTS TO INSURE THAT SYSTEMS ARE COMPLETELY INSTALLED & OPERATING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & CONTRACT DOCUMENTS.
- D. CHECKS SHALL BE PERFORMED ON EACH SYSTEM INSTALLED UNDER THIS CONTRACT. REPORT SHEET SHALL BE PREPARED FOR EACH SYSTEM INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB

CONTRACTOR & (1) TO A/E. TAB CONTRACTOR WILL NOT BEGIN UNTIL CHECKLIST HAS BEEN RECEIVED & REVIEWED.

- E. TAB CONTRACTOR SHALL AT MINIMUM, VERIFY & INSPECT THAT SYSTEMS ARE CLEAN, FAN ROTATION, BEARINGS, CLEARANCES, ALIGNMENT, VIBRATION ISOLATORS, FILTERS, DAMPER OPERATION & POSITION, EQUIPMENT IS INSTALLED, TRANSFER OPENINGS IN WALLS, AIR LEAKS, COIL FINS/DAMAGE.
- F. BALANCING CONTRACTOR SHALL PREPARE CERTIFIED REPORT OF ALL TESTS PERFORMED. REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR AABC OR FACSIMILES THEREOF. BALANCING CONTRACTOR SHALL SUBMIT 3 COPIES OF THIS REPORT TO W/C WHO SHALL SUBMIT THEM TO A/E FOR REVIEW & DISTRIBUTION.
- G. AIR HANDLING UNIT AS INSTALLED SHOWING OUTDOOR, RETURN & SUPPLY AIR CONNECTIONS, COIL & DAMPERS ARRANGEMENTS, PSYCHROMETRIC CHART ON EACH AHU, W/ COOLING COIL, SHOWING OUTDOOR RETURN, MIXED AIR TEMPS AT MINIMUM OUTDOOR AIR CONDITION, COIL LEAVING AIR CONDITION AT FULL COOLING COIL FLOW. TAB REPORT SHALL INCLUDE ALL NEBB OR AABC FORMS COMPLETED AS REQUIRED BY CERTIFICATION.
- H. TAB CONTRACTOR SHALL CYCLE EACH AHU THROUGH CONTROL SEQUENCE OF OPERATION TO VERIFY PROPER OPERATION. ANY INCONSISTENCY W/ CONTRACT DOCUMENTS SHALL BE REPORTED TO A/E & TEMP CONTROL CONTRACTOR. TEMP CONTROL CONTRACTOR SHALL TAKE ACTION TO CORRECT ANY CONTROL INCONSISTENCY AS REPORTED BY TAB CONTRACTOR.
- I. DURING INSTALLATION OF HVAC SYSTEMS TAB CONTRACTOR SHALL PERIODIC INSPECTION VISITS TO PROJECT SITE. PROPER PLACEMENT & INSTALLATION OF CONTROL & BALANCING DEVICES SHALL BE VERIFIED BY THESE INSPECTIONS. W/C SHALL MAKE ALL CORRECTIONS IN CONTROL & BALANCING DEVICE LOCATIONS AS REQUESTED BY TAB CONTRACTOR. FOLLOWING EACH VISIT TAB CONTRACTOR SHALL REPORT TO A/E ALL ITEMS NOTED, ACTION TAKEN & PROGRESS OF INSTALLATION.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

- A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
- C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
- D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
- E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
- F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- G. FINAL ACCEPTANCE OF WALL SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- H. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
- I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 - CONDUIT & CONDUCTORS

- A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA UNLESS NOTED OTHERWISE.
- B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC, OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A. LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.
- C. IMC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DASH CHAIN LIGHT FIXTURES. PROVIDE HEALTH CARE RATED IMC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.
- D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
- E. PROVIDE INTERLEAVING SPACERS FOR MULT RUNS OF UC CONDUITS IN SAME TRENCH.
- F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THW/THHN 600 VOLT, 75 DEG C. COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUF RECOMMENDED RATING.
- G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THW/THHN 600 VOLT, 75 DEG C.
- H. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 - GROUNDING

- A. SUPPLEMENT GROUNDING NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
- B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
- C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE SWITCHGEAR GRADED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
- D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
- E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.
- F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.
- G. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.

SECTION 16300 - ELECTRICAL EQUIPMENT

- A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPOBOARD SURFACES.

PANELBOARDS

- A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSING & BRACED FOR MINIMUM 10,000 AIC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS. 480V PANELS SAME EXCEPT 14,000A AIC MIN. MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYS LOCK, COORD TRIM WITH MOUNTING LOCATION. PANELS TO BE RECESSED UNLESS OTHERWISE NOTED.
- B. DISTRIBUTION PANELS SHALL BE CAPACITY SHOWN & SHALL BE SQUARE D I-LINE W/ TIN PLATED COPPER BUSING, 65KAIC MIN OR AS OTHERWISE NOTED/REQ'D. BOLT ON CIRCUIT BREAKERS (SERIES RATED ACCEPTABLE), GALV STEEL ENCLOSURE.
- C. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

SECTION 16350 - ELECTRICAL IDENTIFICATION

- A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER, TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS
- B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.
- C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.
- D. BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELIBLE MARKER.
- E. FIRE ALARM - NAMEPLATE ON EACH FIRE ALARM TERMINAL CABINET. LABEL ALL WIRING.

SECTION 16400 - WIRING DEVICES

- A. CONVENIENCE OUTLETS - SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFC RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.
- B. LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.
- C. WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERLOAD.
- D. CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.
- E. WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.
- F. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.
- G. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSSTOPPER, LITHONIA, SENSOR SWITCH.

EXECUTION

- A. OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

SECTION 16500 - LUMINAIRES, LAMPS & BALLASTS

LUMINAIRES

- A. PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING, COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & E/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.
- B. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
- C. EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXTRONICS, LITELARM, EXIDE.

LAMPS

- A. LAMPS SHALL BE TYPE RECOMMENDED BY FIXTURE MANUF. LAMP NONE ABOVE

MANUF RECOMMENDED MAX WATTAGE

- B. 7-8 FLOOR - 32W, 75CRI MIN, 4100 DEG K, 2900 APPROX INTAL LUMENS
- C. 7-8TH FLOOR - 54W HIGH OUTPUT, 85CRI MIN, 5000 DEG K, 5000 APPROX INTAL LUMENS UNLESS OTHERWISE CALLED FOR IN FIXTURE SCHEDULE.
- D. EQUIVALENT LAMPS BY G.E., VENTURE, PHILLIPS OR SYLVANIA.

BALLASTS

- A. FLUORESCENT - ELECTRONIC, <20XHD
- B. METAL HALIDE - PULSE START
- C. EQUIVALENT BY ADVANCE, G.E., MOTOROLA, OR MAGNETEK.

SECTION 16800 - FIRE ALARM SYSTEM

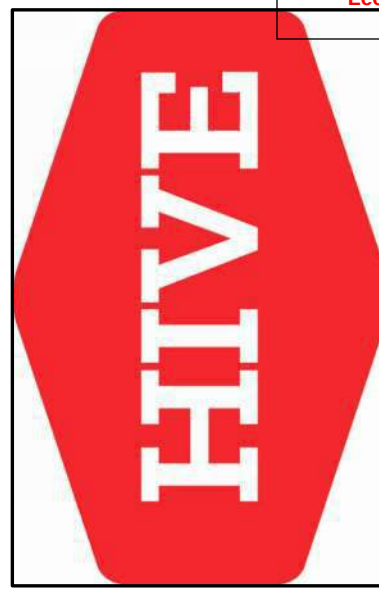
- A. PROVIDE COMPLETE & OPERATIONAL MICROPROCESSOR BASED FIRE ALARM SYSTEM. SYSTEM SHALL MONITOR SPRINKLER SYSTEM TAMPER & FLOW SWITCHES, OPERATE AIR HANDLING UNIT DUCT SMOKE DETECTORS & UNIT SHUTDOWN, CONTROL NOTIFICATION APPLIANCES & PROVIDE THIRD PARTY/CENTRAL STATION MONITORING THROUGH DIGITAL ALARM COMMUNICATOR OR DALES.
- B. SUBMIT SHOP DRAWINGS W/ WIRING DIAGRAMS & BATTERY CALCS FOR APPROVAL TO FIRE MARSHALL AND AHJ.

PRODUCTS

- A. PHOTOELECTRIC DUCT SMOKE DETECTORS W/ SAMPLING TUBE. PROVIDE REMOTE TEST SWITCH & INDICATOR FOR EACH. LOCATION APPROVED BY ARCHITECT. ACTIVATION OF DUCT SMOKE DETECTORS SHALL SHUT DOWN RESPECTIVE AIR HANDLING UNIT.
- B. PHOTOELECTRIC, CEILING MOUNTED SMOKE DETECTORS.
- C. DOUBLE ACTION (PUSH-PULL) PULL STATIONS.
- D. REMOTE ANNUNCIATOR FOR RECESSED MOUNTING. COORDINATE LOCATION WITH FIRE DEPARTMENT.
- E. PROVIDE ALL REQUIRED FAN AND OTHER SHUTDOWN RELAYS FOR DOORS, DAMPERS, ETC. COORDINATE W/ OTHER TRADES.
- F. NOTIFICATION APPLIANCES - STROBES & COMBINATION HORN/STROBES. 15/75 CANDELA RATING UNLESS OTHERWISE NOTED OR REQUIRED. WEATHERPROOF WHERE EXTERIOR MOUNTED.
- G. HEAT DETECTORS - RATE OF RISE OR FIXED AS REQUIRED BY APPLICATION.
- H. COORDINATE TO PROVIDE POWER & SHUTDOWN OR OPERATION OF FIRE/SMOKE DAMPERS, DOOR HOLD OPENS, POWER TO DOOR LOCKS & ACCESS CONTROL & OTHER SIMILAR SYSTEMS.
- I. MODULES FOR MONITORING STATUS OF SPRINKLER SYSTEM TAMPER & FLOW SWITCHES.

EXECUTION

- A. INSTALLED & TESTED PER NFPA 72 & APPLICABLE SECTIONS OF NFPA 70. PROVIDE COMPLETE FIRE ALARM SYSTEM AS DESCRIBED HEREIN & SHOWN TO BE WIRED, CONNECTED, & IN FIRST CLASS CONDITION. INCLUDE SUFFICIENT CONTROL UNIT(S), ANNUNCIATOR(S), MANUAL STATIONS, AUTOMATIC FIRE DETECTORS, SMOKE DETECTORS, AUDIBLE & VISIBLE NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, & ALL NECESSARY MATERIAL FOR COMPLETE OPERATING SYSTEM.
- B. SYSTEM SHALL BE UL LISTED.
- C. SYSTEM WIRING: WIRE & CABLE SHALL BE LISTED FOR ITS INTENDED USE BY AN APPROVAL AGENCY ACCEPTABLE TO AHJ & SHALL BE INSTALLED IN ACCORDANCE W/ APPROPRIATE ARTICLES FROM CURRENT APPROVED EDITION OF NEC.



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project number

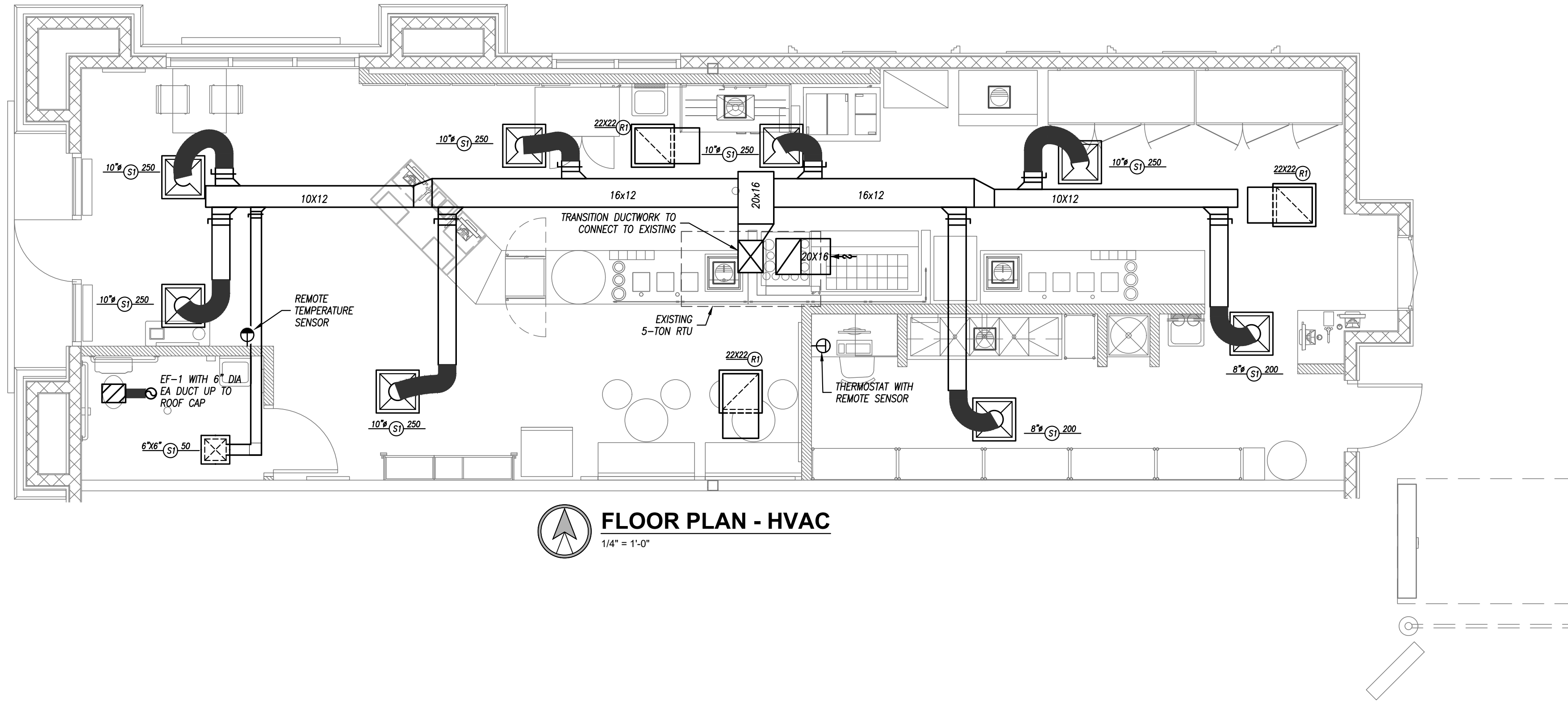
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PLUMBING

sheet number

M101



GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	STYLE	SERVICE	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	FINISH COLOR	REMARKS
S1	TITUS	TMS	SQUARE CEILING	SUPPLY	GRID	24x24	AS INDICATED	NO	WHITE	---
R1	TITUS	350RL	SQUARE CEILING	RETURN	GRID	24x24	AS INDICATED	NO	WHITE	1

REMARKS:
1. PROVIDE WITH ALL NECESSARY MOUNTING HARDWARE.

EXHAUST FAN SCHEDULE

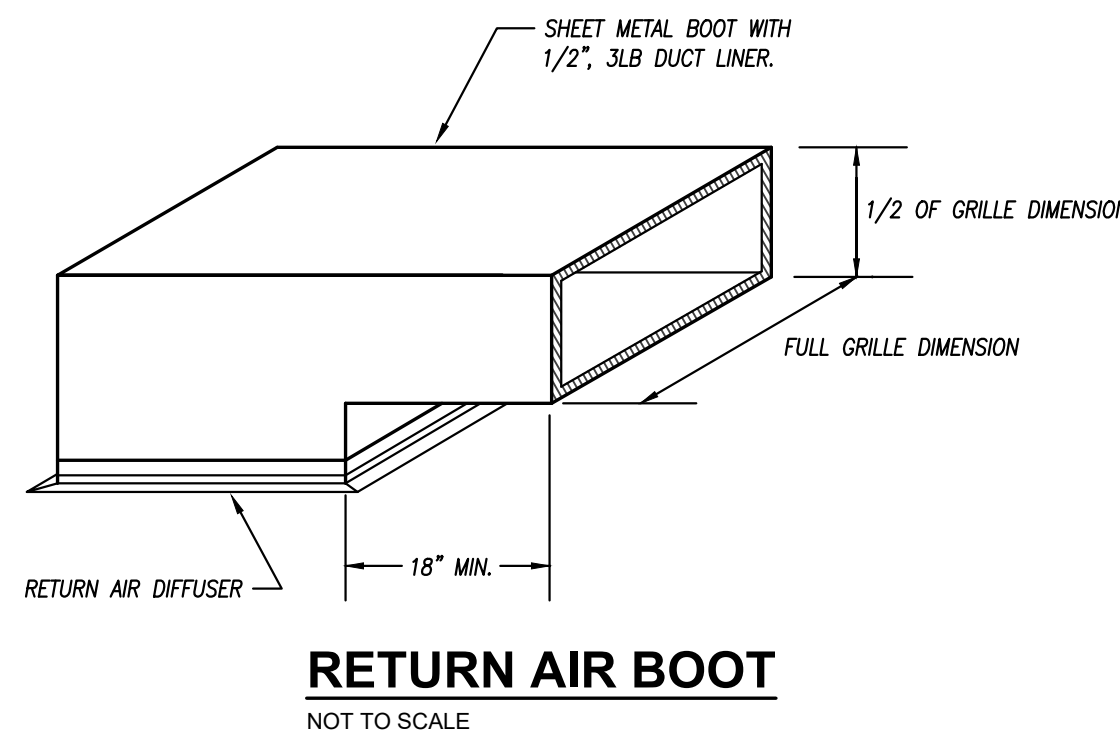
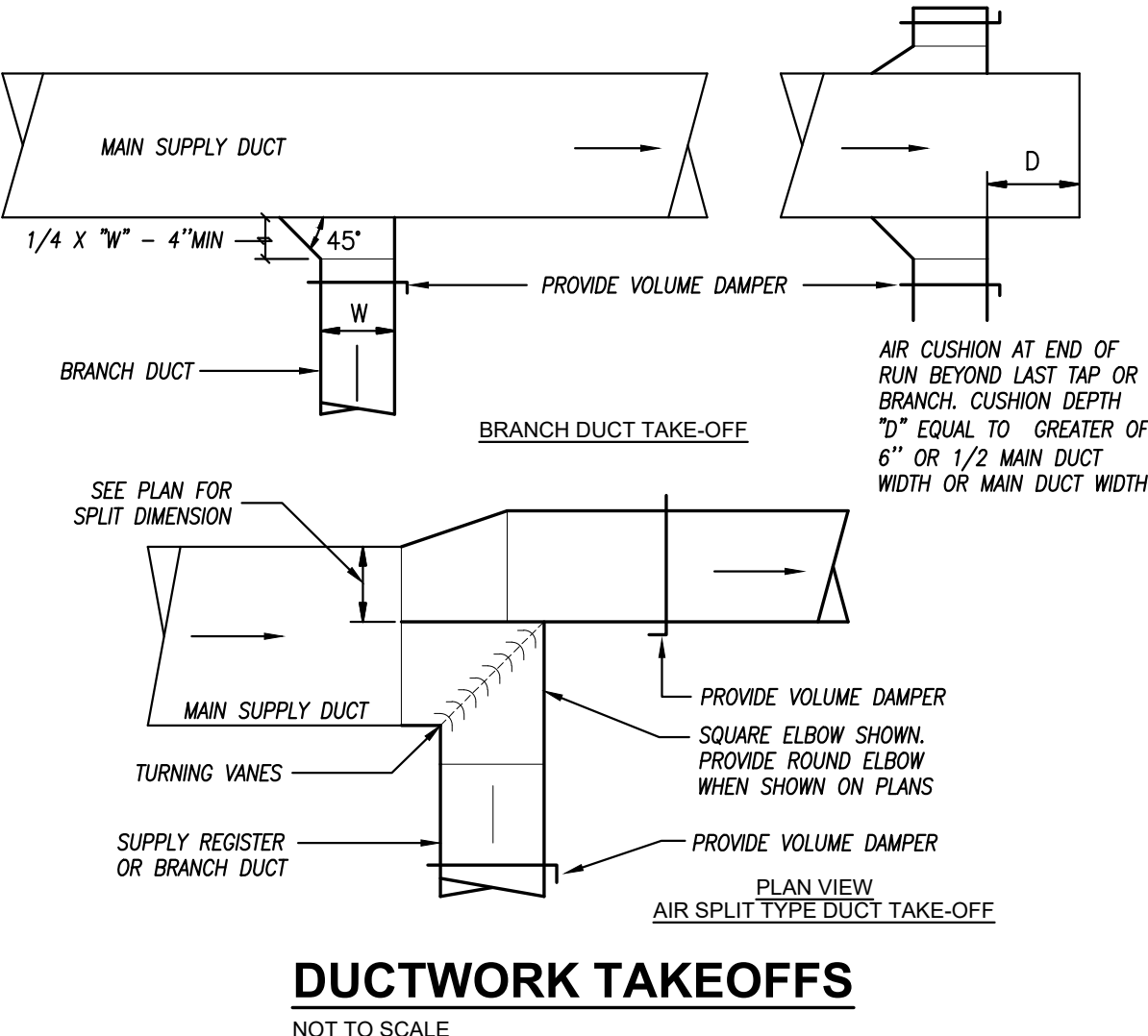
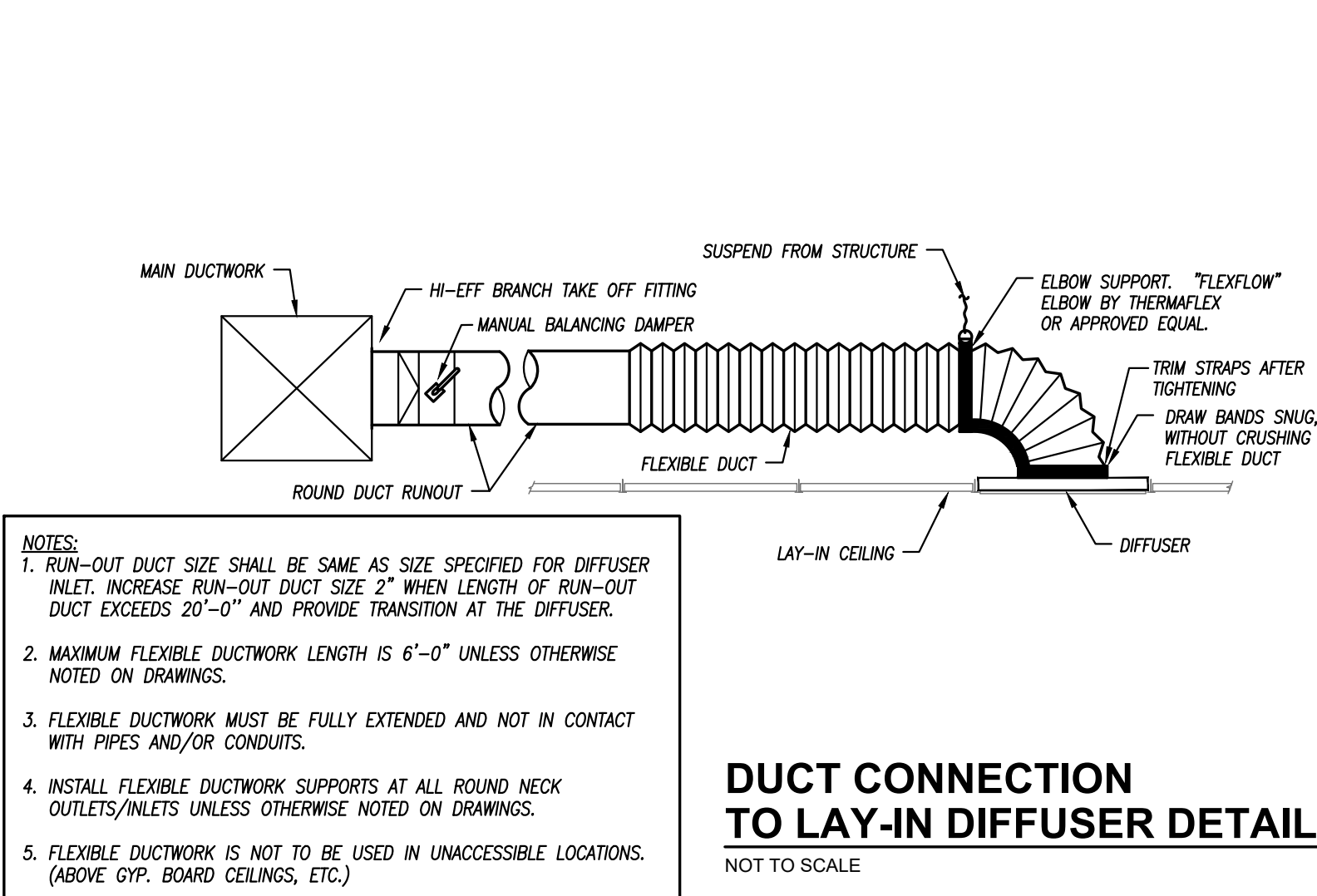
PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	SERVICE	CFM	STATIC PRESSURE	ELECTRICAL	DRIVE	DISCONNECT	DAMPER	NOTES
EF-1	GREENHECK	SP-B90	CEILING	EXHAUST	75	1/4"	50 WATTS, 120V, 1 PHASE	DIRECT	YES	BACKDRAFT	1

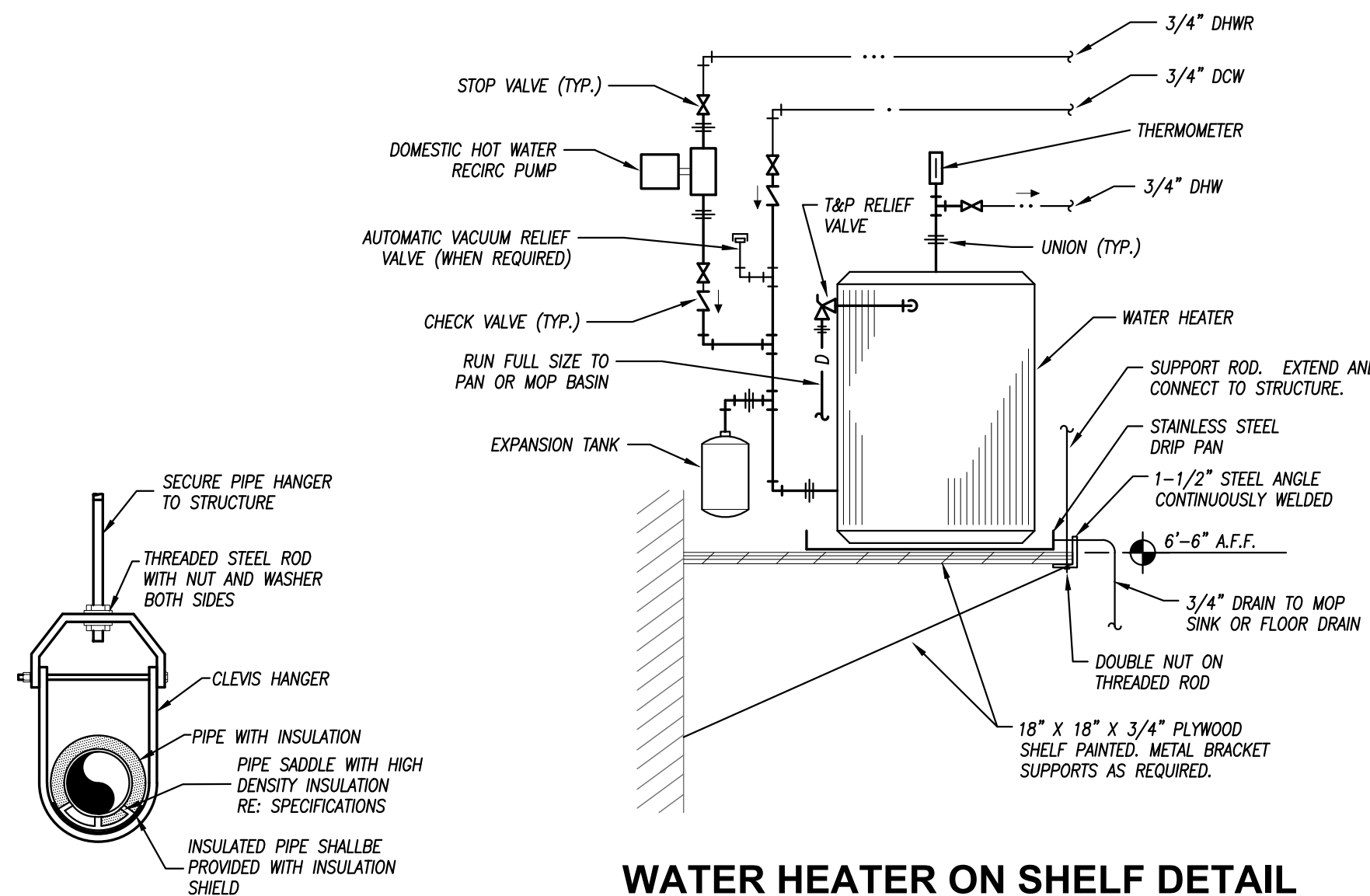
1. PROVIDE 12" ROOF CURB WITH CURB CAP MODEL RCC-7 WITH INTEGRAL BIRDSCREEN.

DUCTWORK INSULATION SCHEDULE

PURPOSE	DUCT			INSULATION			NOTES
	DUTY	LOCATION	STYLE	MATERIAL	APPLICATION	THICKNESS	
SUPPLY	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
RETURN	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"	---
		RETURN/TRANSFER BOOT	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
EXHAUST	LOW PRESSURE/VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1/2"	---
		CONCEALED	ROUND	FIBERGLASS	LINED	1/2"	---

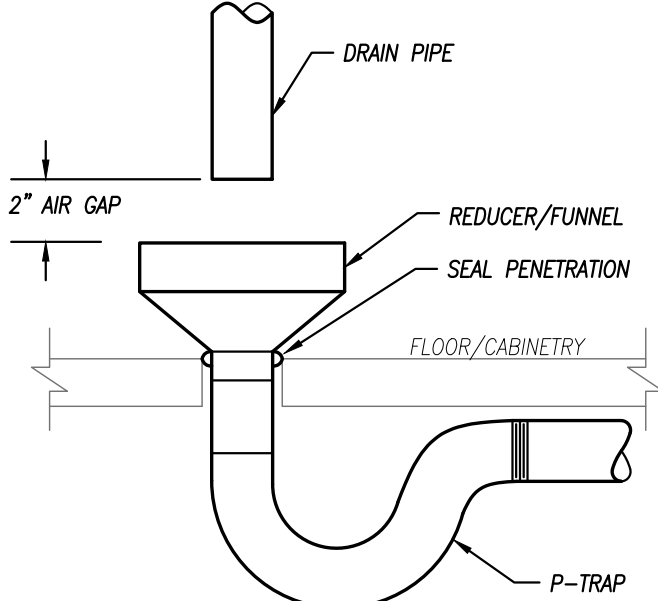
GENERAL REMARKS (APPLICABLE TO ALL TYPES):
1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2010 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.



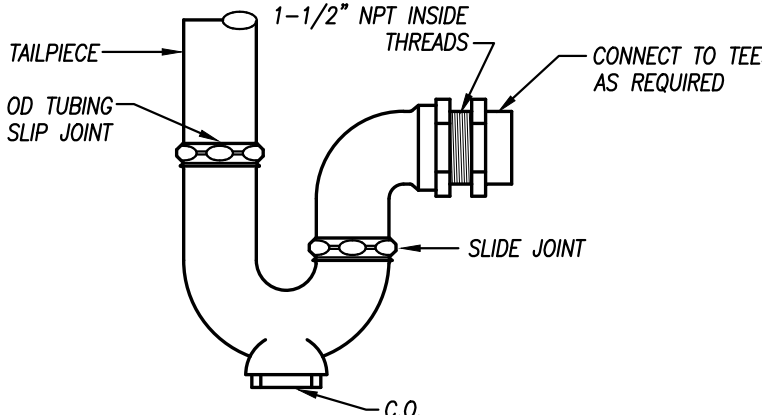


WATER HEATER ON SHELF DETAIL
NOT TO SCALE

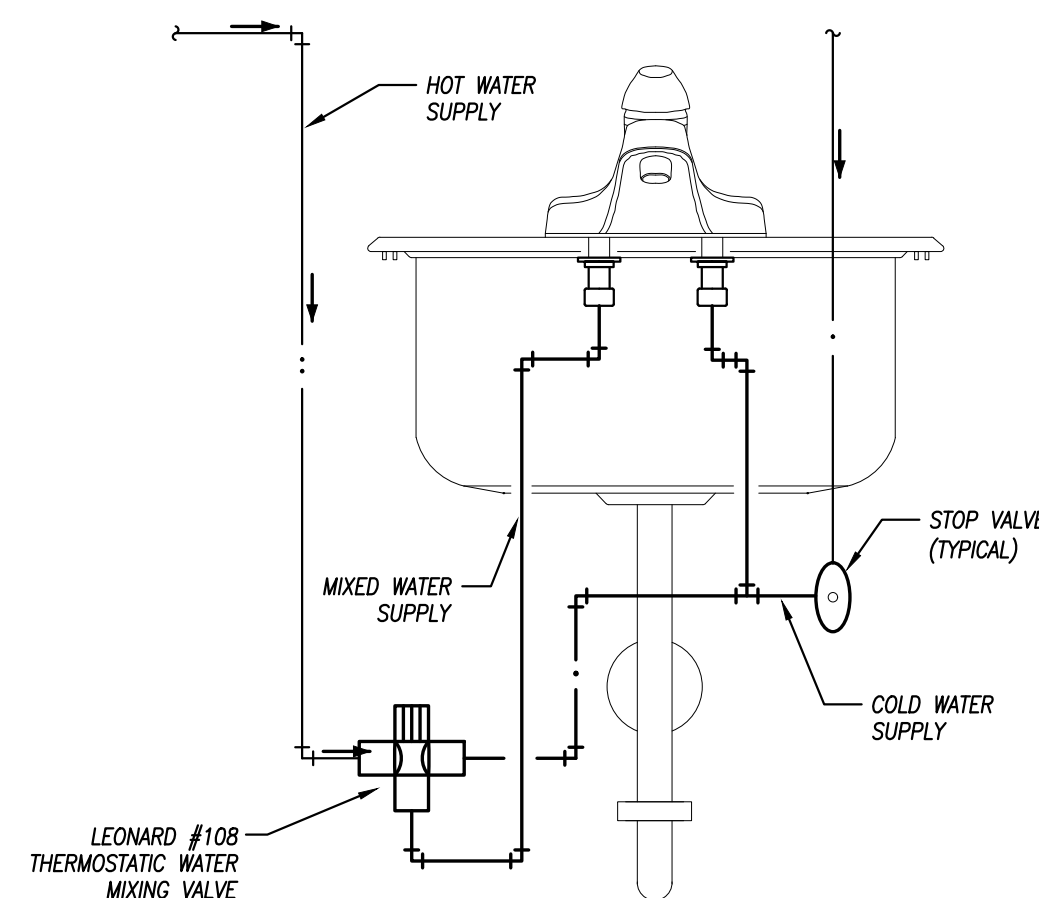
PIPE HANGER DETAIL
NOT TO SCALE



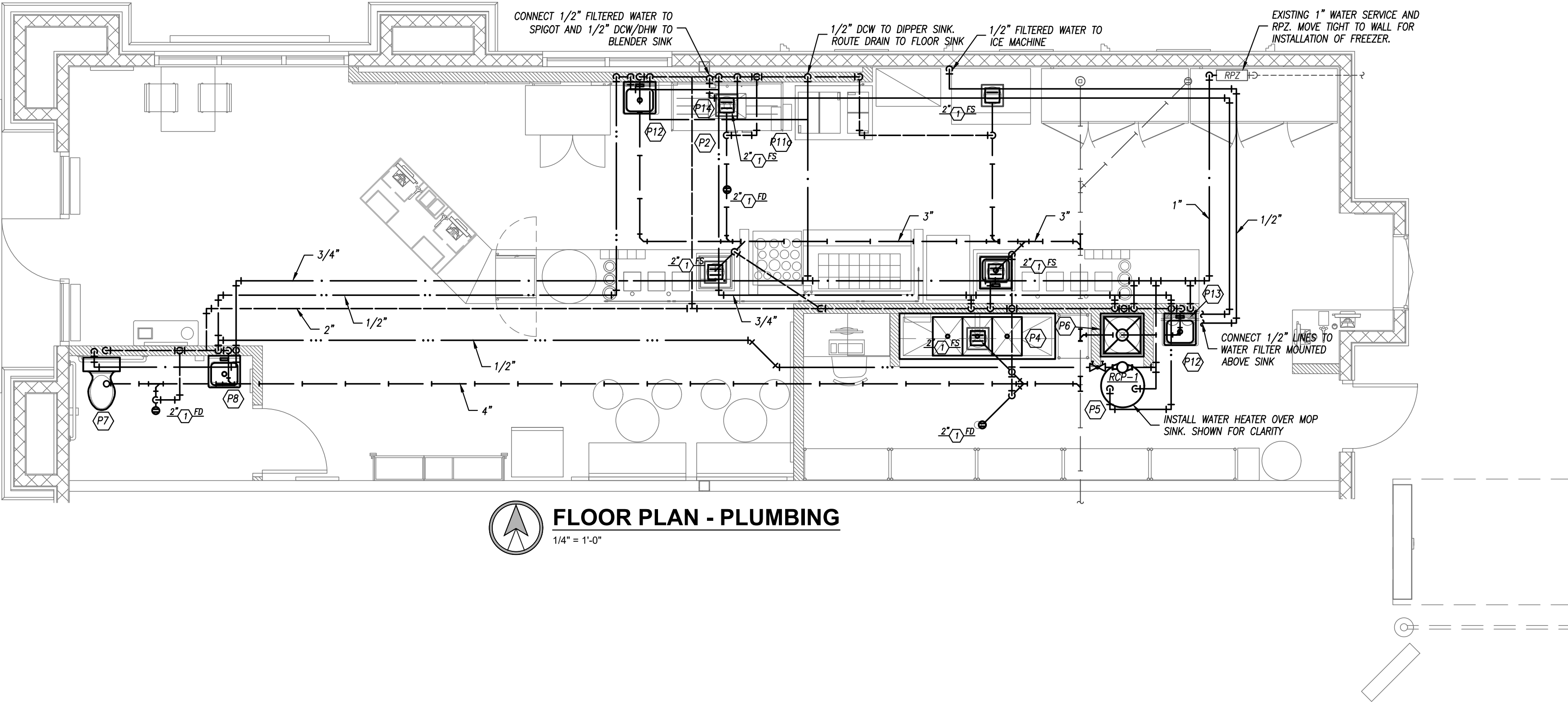
AIR GAP DETAIL
NOT TO SCALE



P-TRAP DETAIL
NOT TO SCALE



HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE

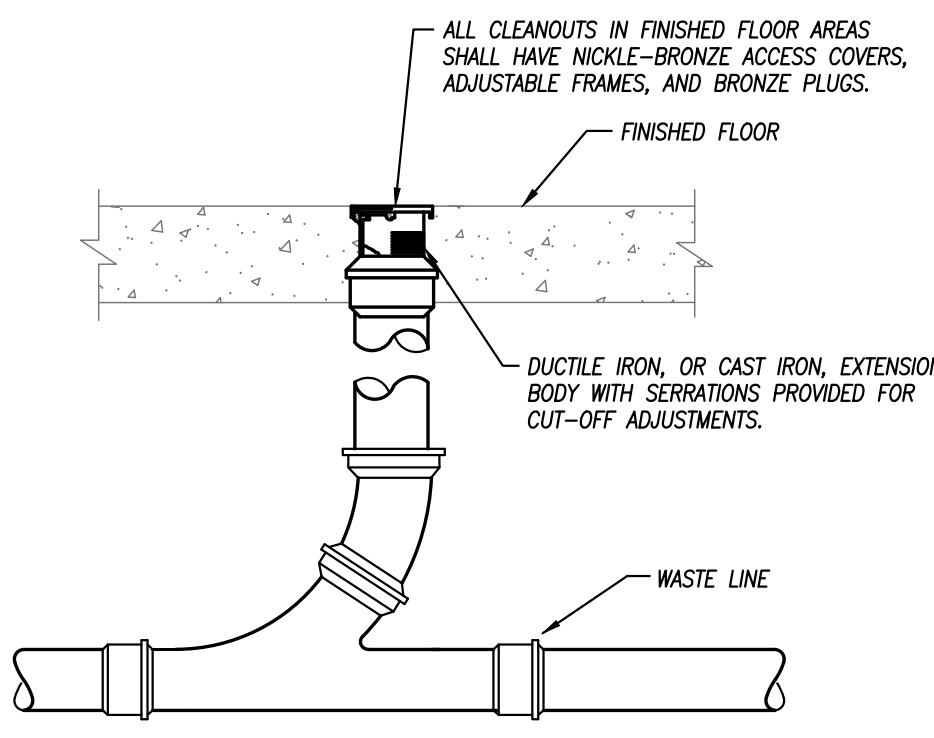


FLOOR PLAN - PLUMBING
1/4" = 1'-0"

PLUMBING SCHEDULE												
MARK	QTY	ORDERED BY	SUPPLIED BY	INSTALL BY	DESCRIPTION	MANUFACTURER	MODEL #	SIZE	FAUCET	WATER SUPPLY	DRAIN	COMMENTS
P1	0	ZEE	FF&E	FF&E / G.C.	S/S HAND SINK	FF&E SUPPLIER		14" L X 10"W X 7.5"D BOWL SIZE	ELKAY LK-4121	1/2" HOT AND COLD	2"DRAIN	HAND SINK CABINET W/ DROP IN S.S. HAND SINK
P2	1	ZEE	FF&E	FF&E / G.C.	"BLENDER" SINK	FF&E SUPPLIER	BOWL IN CENTER	62 "L X 27.5"W	SPIGOT / PRE-RINSE FAUCET, T&S	1/2" HOT AND COLD	2"DRAIN	35 STRAINER, McGuire MODEL 8903 P-TRAP WITH CLEANOUT PROVIDE FLOOR SINK BOWL SIZE 24"W X 16"D X 12" H
P3	1	ZEE	FF&E	G.C.	SANITARY CHEMICAL DISPENSER SYSTEM	SSDC	---	---	---	---	---	SEE INSTALLATION GUIDE PROVIDED BY FF&E
P4	1	ZEE	FF&E	G.C.	S/S 3-COMP SINK	FF&E SUPPLIER	---	84.25"W X 25.5"D	INCLUDED W/ PRE-RINSE FAUCET, T&S	3/4" HOT AND COLD	FLOOR SINK	DRAINBOARD ON BOTH SIDES-PROVIDE FLOOR SINK; (3)SINK BOWLS EA. 16"W X 20"D X 12"H SILICON AROUND SINK AT WALL
P5	1	G.C.	G.C.	G.C.	WATER HEATER	COMMERCIAL GRADE ONLY-SUBMIT SPECS	50 GAL. ELEC OR AS REQUIRED BY CODE	21" X 29.5"H	---	3/4" NPT	2"DRAIN	RELIEF VALVE 3/4" NPT INSTALL PER CODE (QUICK RECOVERY WATER HEATER) -- REF DTL 6/A-7.
P6	1	G.C.	G.C.	G.C.	MOP SINK	FIAT	MSB-2424	24"W X 24"D X 10"H	10" LONG KITCHEN SPOUT	1/2" HOT AND COLD	2"DRAIN	---
P7	1	G.C.	G.C.	G.C.	WALL HUNG LAVATORY	AMERICAN STD.	0355.012		CHICAGO FAUCETS 802-VE64KKABCP	1/2" HOT AND COLD	2"DRAIN	TOP OF FRONT RIM MOUNTED AT 34" AFF
P8	1	G.C.	G.C.	G.C.	TOILET (ADA COMPLIANT)	AMERICAN STD.	2467.016	20"W X 18"D	---	1/2" COLD	4"SEWER	PROVIDE OPEN FRONT SEAT. INSTALL TOP OF SEAT @ 18" AFF
P10	0	G.C.	G.C.	G.C.	NOT USED	AMERICAN STD.	---	---	---	---	---	---
P11	0	ZEE	FF&E	FF&E / G.C.	DIPPERWELL	THE DIPWELL CO.	10" STANDARD	10"L X 3"W X 6"H	---	1/2" COLD	1ø1/16" DRAIN	DRAIN TO BLENDER SINK FLOOR SINK. ATTACH TO SIDE OF BLENDER CABINET. DRAIN TO BE MINIMALLY EXPOSED ON OUTSIDE OF CABINET.
P11a	1	ZEE	FF&E	FF&E / G.C.	DIPPERWELL	WESTERN PIONEER	16.25" STANDARD	16.25"L X 4"W X 4"H	---	1/2" COLD	1ø1/16" DRAIN	OPTION: DRAIN TO BLENDER SINK FLOOR SINK. ATTACH TO SIDE OF BLENDER CABINET. DRAIN TO BE MINIMALLY EXPOSED ON OUTSIDE OF CABINET.
P12	2	ZEE	FF&E	FF&E / G.C.	S/S HAND SINK	FF&E SUPPLIER	MMS10900101CJBF	13 1/2" L X 9 3/4"W X 6 3/4" D BOWL SIZE	INCLUDED	1/2" HOT AND COLD	2"DRAIN	WITH SPLASH GUARDS AT REAR AND SIDES- EACH HAND SINK TO INCLUDE S.S. PAPER TOWEL HOLDER AND S.S. SOAP DISPENSER W/ ORDER
P13	1	ZEE	FF&E	G.C.	WATER FILTER	WESTERN PURIFIER	SK-HFWFS07	16" H X 25" W X 9"D	---	---	---	1/2" COPPER TUBING TO SPIGOT. INDEPENDENT 1/2" COPPER TUBING TO ICE MACHINE.
P14	1	ZEE	FF&E	G.C.	WATER SPIGOT	WESTERN PURIFIER	---	---	---	---	---	TUBING TO SPIGOT FROM FILTER. REF. DTL 6/A-3
P15	1*	ZEE	G.C.	G.C.	GREASE TRAP	---	---	---	---	---	---	* PLUMBING ENGINEER TO CONFIRM IF GREASE TRAP REQUIRED BY LOCAL JURISDICTION AND TO SIZE, SPECIFY, AND LOCATED IF REQUIRED.
SEE SHEET A-50 FOR ICE MACHINE SPECS ON ELECT. SCHEDULE E8					ICE CUBER MACHINE	HOSHIZAKI	---	---	---	FILTERED WATER, 1" FEED FROM WATER FILTER		** SEE NOTES 7 & 10
					ICE CUBER BIN	HOSHIZAKI	---	---	---	---	3/4" FPT DRAIN	ALL DRAINS TO BE ROUTED SEPARATELY

DOMESTIC RECIRCULATION PUMP SCHEDULE								
PLAN MARK	MANUFACTURER	MODEL NUMBER	GPM	HEAD (FT. WC)	HP	MAX. RPM	ELECTRICAL	NOTES
RCP-1	BELL & GOSSETT	PL30	10.0	15.0	1/12	2,650	120V / 1 PH	1,2,3
REMARKS: 1. ALL BRONZE CONSTRUCTION. 2. PROVIDE WITH MOTOR RATED DISCONNECT, AQUASTAT AND TIMER FOR OPERATION OF PUMP 3. MOUNT PUMP AND ACCESSORIES NEAR WATER HEATER AND NO HIGHER THAN 6' AFF.								

FLOOR / ROOF DRAIN SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	2"	1
FS-1	WADE	9100	FLOOR SINK	8"x8"	2"	2
REMARKS: 1. PROVIDE WITH NICKEL BRONZE TOP. 2. PROVIDE 1/4 OPEN GRATE						



FLOOR CLEANOUT DETAIL
NOT TO SCALE

PIPING MATERIAL & INSULATION SCHEDULE							
SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ 1"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC 3/4" (HOT ONLY)
DOMESTIC COLD WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2"
DOMESTIC HOT WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ 1-1/2"
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----
DRINKING FOUNT. DRAIN	ALL	----	----	----	----	YES	ELASTOMERIC 1/2"
NOTES: 1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50. 2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM. 3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.							

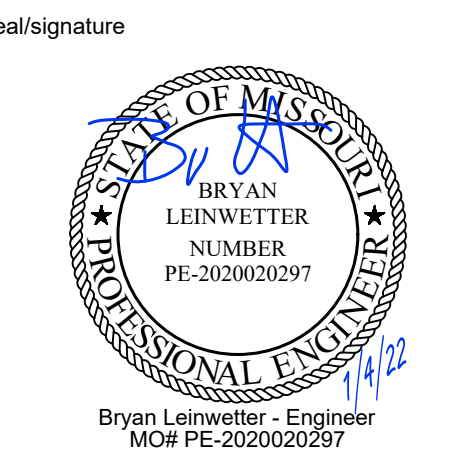
WATER HEATER SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	CAPACITY	ELECTRICAL	NOTES
WATER HEATER-1	AO SMITH	DEL-50	50	6 KW	208V, 3PH, 20AMP	1
NOTES LEGEND 1 - PROVIDE WALL MOUNT SUPPORT						



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seal/signature



Bryan Leinwetter - Engineer
MO# PE-2020020297

project number

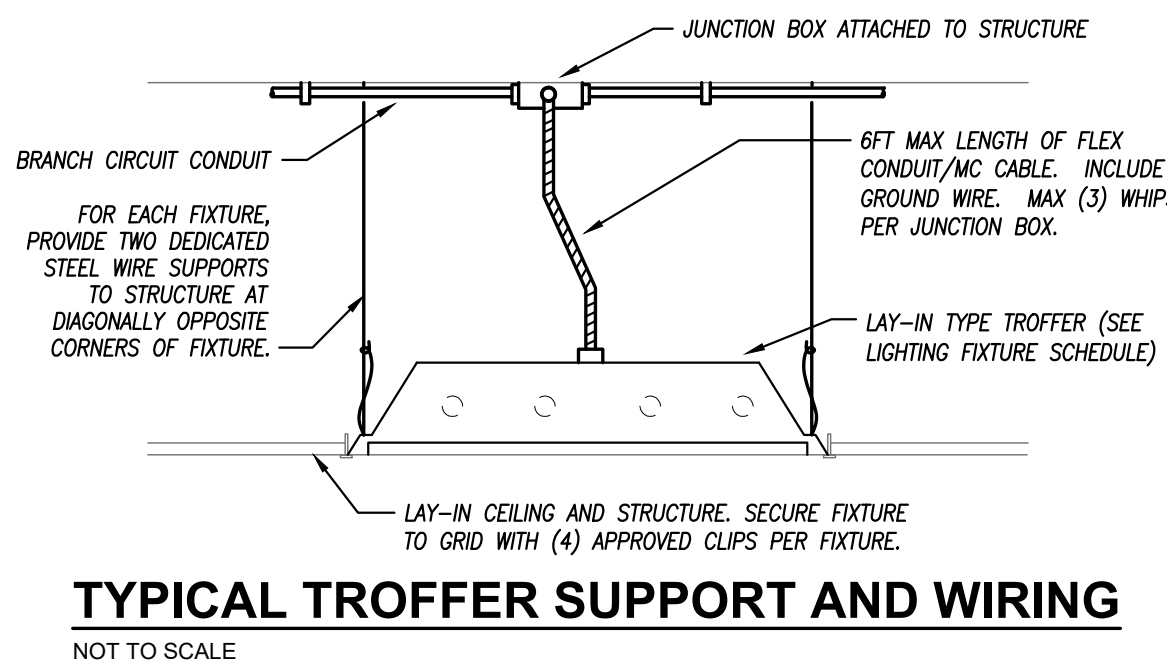
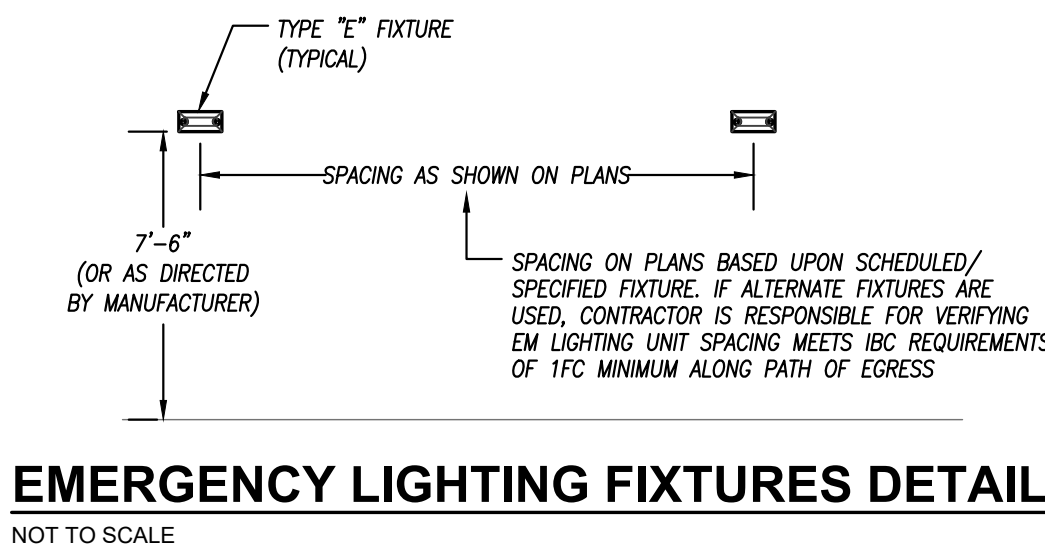
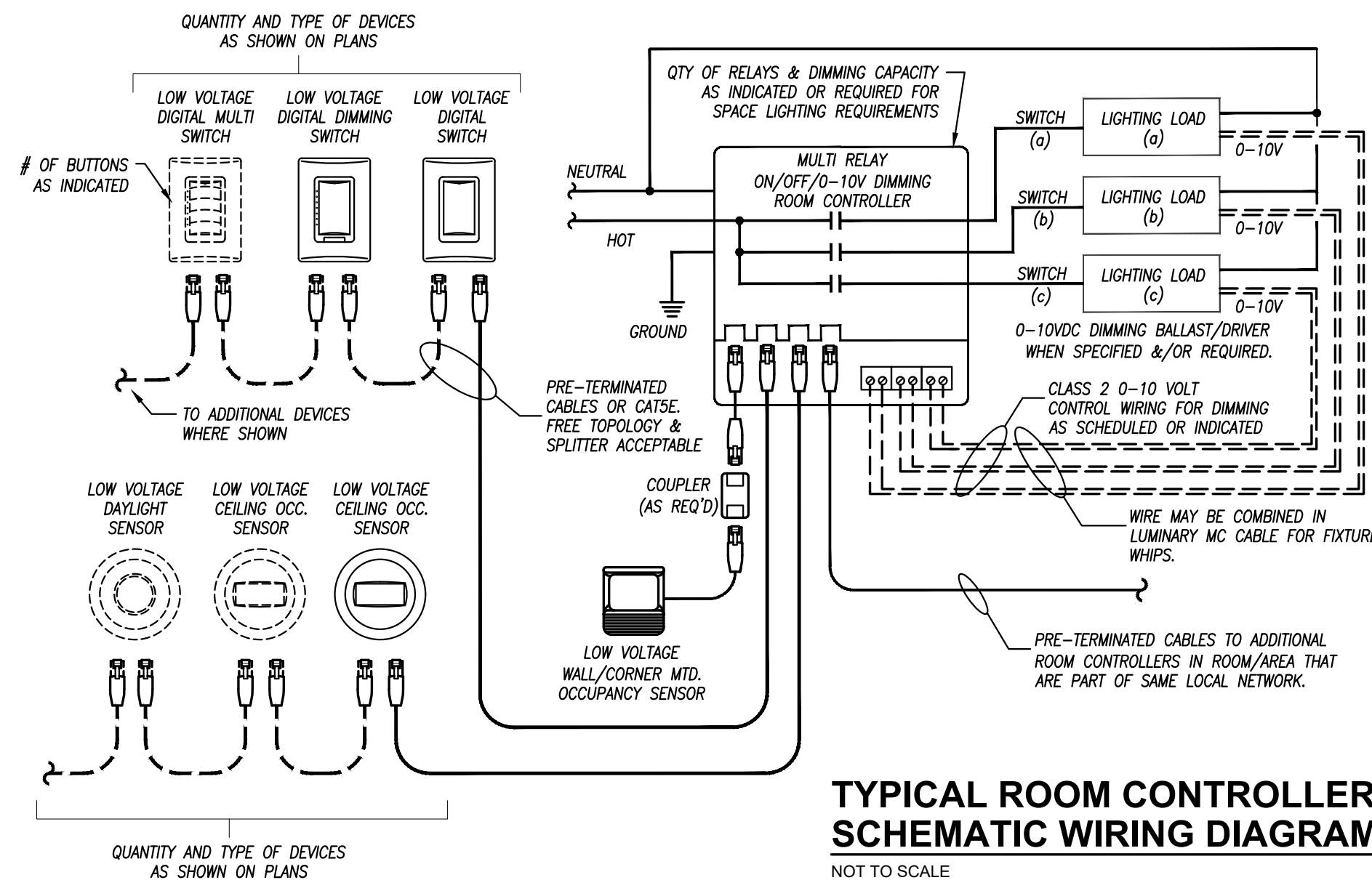
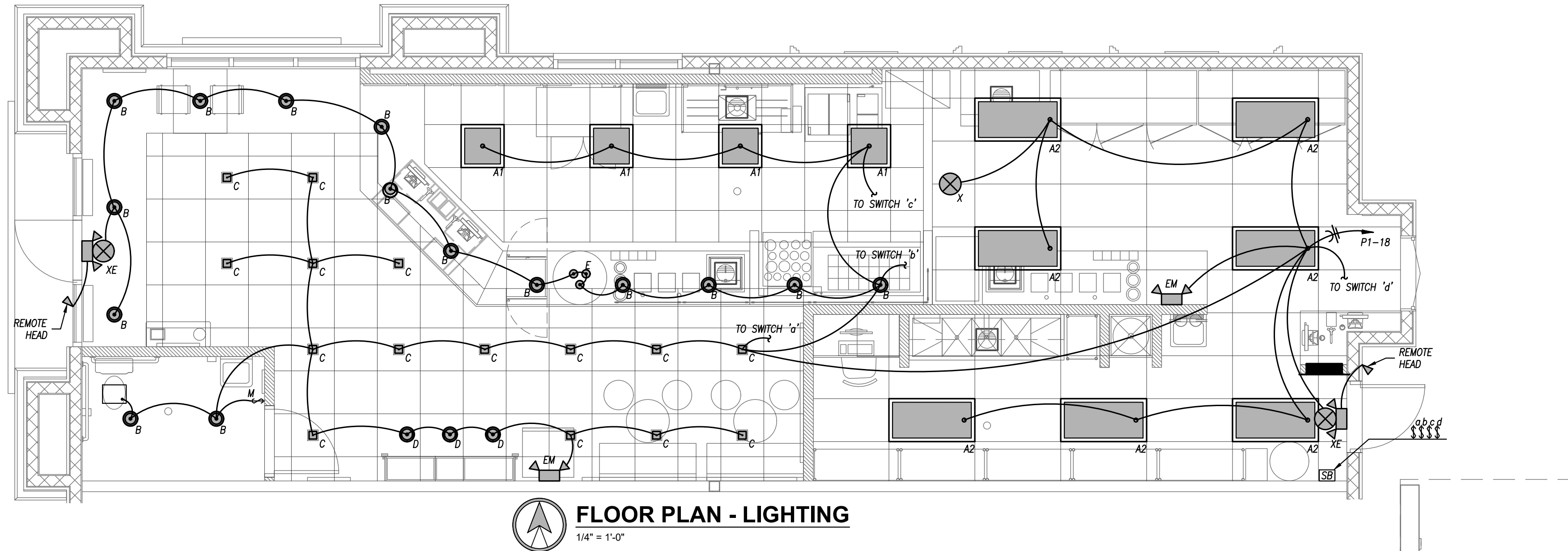
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REMARKS:

1. CUTLER HAMMER POW-R-LINE 1A OR EQUAL.

x.

2. PROVIDE WITH GFCI BREAKER WHERE (G) SHOWN

3.

4.

5.

NOT TO SCALE