



Endeavor Health Services

1526 Walden Ave. Suite #400
Cheektowaga, NY

S.A. PROJECT # 14118.01
DATE: 05-22-2018

ARCHITECT:

SILVESTRI ARCHITECTS, P.C.

1321 MILLERSPORT HIGHWAY, SUITE 101 AMHERST, NY 14221

MEP ENGINEER:

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4050 RIDGE LEA ROAD, SUITE C AMHERST, NY 14228 716-836-9600

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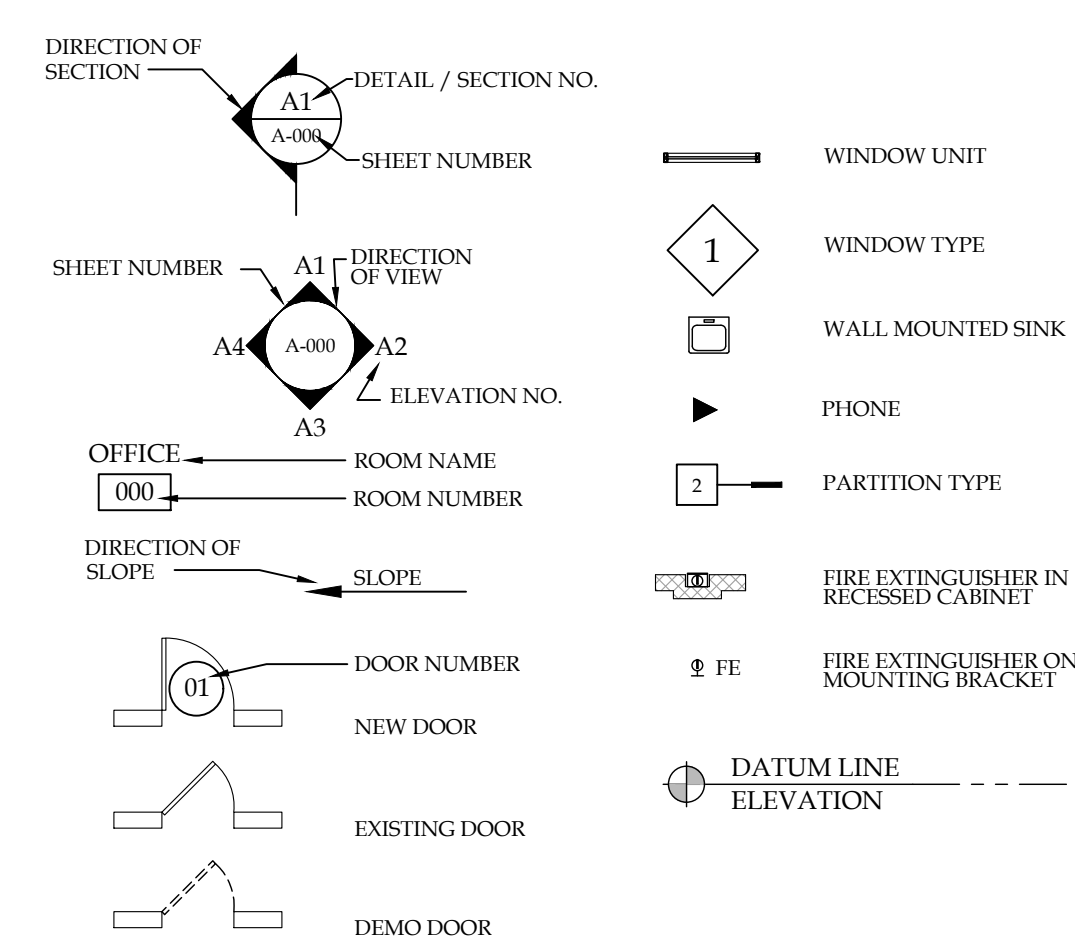
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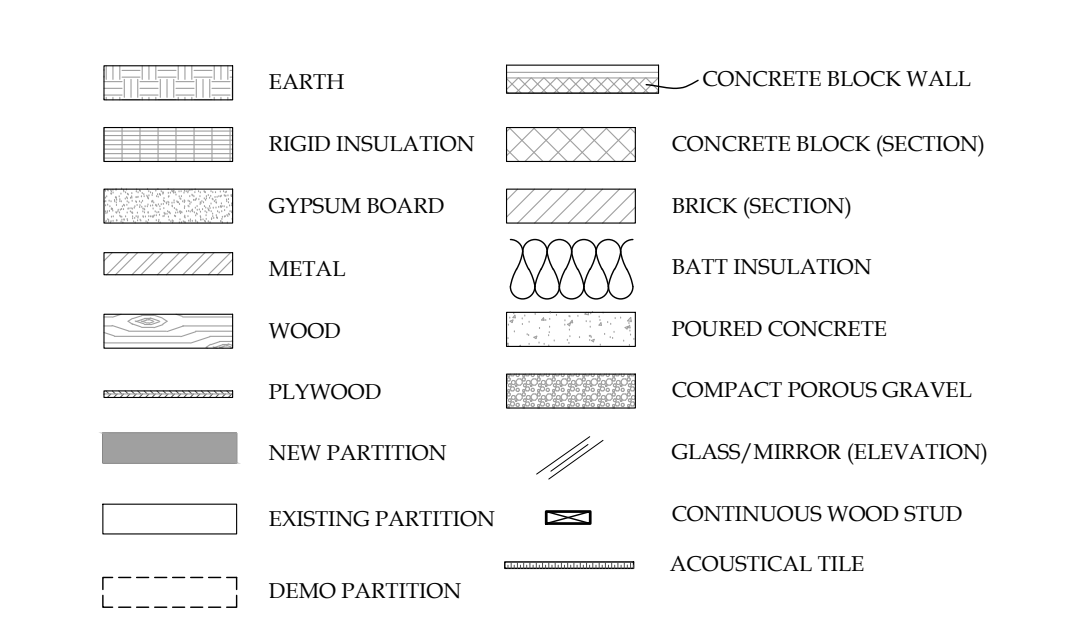
ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	N.I.C.	NOT IN CONTRACT
ACT.	ACoustical TILE	N.T.S.	NOT TO SCALE
A.C.	AIR CONDITION	NOM.	NOMINAL
ALT.	ALTERNATE	NO.	NUMBER
ALUM.	ALUMINUM	O.C.	ON CENTER
APPROX.	APPROXIMATE	OPNG	OPENING
ARCH.	ARCHITECTURAL	OPP.	OPPOSITE
AUTO.	AUTOMATIC	OPPH	OPPOSITE HAND
		OH	OVERHEAD
BM.	BEAM	PMBC	PREENGINEERED METAL BUILDING CONTRACTOR
B.M.	BENCH MARK	PNT	PANEL
BLK.	BLOCK	P.N.I.	PAPER TOWEL DISPENSER
BLKG.	BLOCKING	P.T.D.	PAPER TOWEL RECEPTOR
BD.	BOARD	P.T.R.	PAVEMENT
BDT.	BOTTOMS	P.S.	PLASTER
BRK.	BRICK	P.L.	PLASTIC LAMINATE
B.E.J.	BRICK EXPANSION JOINT	P.LAM	PLATE
B.C.	BRICK COURSE	PL	POLISHED
B.L.C.	BUILDING	PVD	PLYWOOD
BUR.	BUILT-UP/ROOFING	PT	POINT
		P.S.F.	POUNDS PER SQ. INCH
CLC.	CEILING	PSF	POUNDS PER SQ. FOOT
CAB.	CABINET	P.P.	PRE-FABRICATED
CAPT.	CARPET	PRE.FAB.	PRE-FABRICATED
C.W.	CASEWORK	PROJ.	PROJECTION
C.B.	CATCH BASIN	PL	PROPERTY LINE
CEM.	CEMENT		
CT.	CERAMIC TILE		
CHD.	CHALK BOARD		
CLR.	CLEAR		
CONC.	CONCRETE		
CMU.	CONCRETE MASONRY UNIT		
CONL.	CONTRACTOR		
CONTR.	CONTRACTOR		
CT.	CONTROL JOINT		
C.G.	CORNER GUARD		
CRS.	COURSE		
DET.	DETAIL		
DIA.	DIAMETER		
DIM.	DIMENSION		
DISP.	DISPENSER		
DN.	DOWN		
DS	DOWNSPOUT		
DWG.	DRAWING		
D.F.	DRINKING FOUNTAIN		
DIFF.	DIFUSER		
EA.	EACH		
EHS.	EXTERIOR INSULATION & FINISH SYSTEM		
ELEC.	ELECTRICAL		
EPNL.	ELECTRIC PANEL		
EL.	ELEVATOR		
ELEV.	ELEVATION		
EQ.	EQUAL		
EX.E.	EXISTING		
EXST.	EXISTING		
EXP. JT.	EXPANSION JOINT		
FB.	FACE BRICK		
FIN.	FINISH (ED)		
F.A.	FIRE ALARM		
F.E.C.	FIRE EXTINGUISHER CABINET		
F.H.C.	FIRE HOSE CABINET		
F.P.	FIRE PROOFING		
FL.	FLOOR		
F.D.	FLOOR DRAIN		
FT.	FOOT		
F.W.C.	FACE WALL COVERING		
FTG.	FOOTING		
FDIN.	FOUNDATION		
FUR.	FURRING		
GAL.	GALLON		
GA.	GAGE		
G.C.	GENERAL CONTRACTOR		
GL.	GLASS		
G.B.	GRAB BAR		
G.W.B.	GYP-SUM WALL BOARD		
GYP.	GYP-SUM		
HDW.	HARDWARE		
HD.WD.	HARDWOOD		
HVAC.	HEATING, VENTILATING, & AIR CONDITIONING		
HT.	HEIGHT		
HC.	HOLLOW CORE		
HM.	HOLLOW METAL		
HORIZ.	HORIZONTAL		
HB.	HOSE BIB		
H.W.	HOT WATER		
INSUL.	INSULATE (D) (ION)		
INS. GL.	INSULATED GLASS		
INVT.	INVERT		
JAN.	JANITOR		
JT.	JOINT		
KIT.	KITCHEN		
KO.	KNOCK OUT		
LAM.	LAMINATED		
LAV.	LAVATORY		
LH.	LEFT HAND		
LGT.	LENGTH		
LI.	LIGHT		
L.F.	LINEAR FEET		
LTL.	LINE		
LL.	LINE LOAD		
LLH.	LONG LEG HORIZONTAL		
LV.	LONG LEG VERTICAL		
L.M.F.	LIGHT GAUGE METAL FRAMING		
LVR.	LOW VOLT		
L.P.	LOW POINT		
MACH.	MACHINE		
M.H.	MANHOLE		
MFR.	MANUFACTURE		
MAS.	MASONRY		
M.O.	MASONRY OPENING		
MATL.	MATERIAL		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MEMB.	MEMBRANE		
MET.	METAL		
M.T.P.	METAL TOILET PARTITION		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MULL.	MULLION		
SDL.	SADDLE		
STG.	SEATING		
SHTH.	SHATHING		
SHT.	SHEET		
SHR.	SHOWER		
SIM.	SIMILAR		
SPKR.	SPEAKER		
SPEC.	SPECIFICATIONS		
SQ.	SQUARE		
SST.	STAINLESS STEEL		
SP.	STANDARD		
STD.	STANDARD		
SD.	STORM DRAIN		
S.C.T.	STRUCTURAL GLAZED TILE		
STRUCT.	STRUCTURAL		
SUSP.	SUSPENDED		
SW.	SWITCH		
SWBD.	SWITCH BOARD		
SV.	SHEET VINYL		
T.B.	TACKBOARD		
TEL.	TELEPHONE		
TEMP.	TEMPERATURE		
TEX.	TEXTURE		
THK.	THICK (NESS)		
THR.	THRESHOLD		
TP.	TOILET PAPER HOLDER		
T/O.	TOP OF		
TB.	TOWEL BAR		
TP.	TYPICAL		
U.C.L.	UNDER CABINET LIGHT		
U.C.	UNDERCUT		
UR.	URNAL		
V.T.R.	VENT THRU ROOF		
VENT.	VENTILATOR		
VERT.	VERTICAL		
VEST.	VESTIBULE		
V.C.T.	VINYL COMPOSITE TILE		
V.L.F.	VERIFY IN FIELD		
V.W.C.	VINYL WALL COVERING		
WSCT.	WAINSCOT		
WS.	WEATHER STRIP		
WT.	WEIGHT		
WWF.	WELDED WIRE FABRIC		
W.C.D.F.	WHEEL CHAIR DRINKING FOUNTAIN		
W.	WITH		
W/O.	WITHOUT		
WD.	WOOD		

DRAFTING SYMBOLS



MATERIAL SYMBOLS



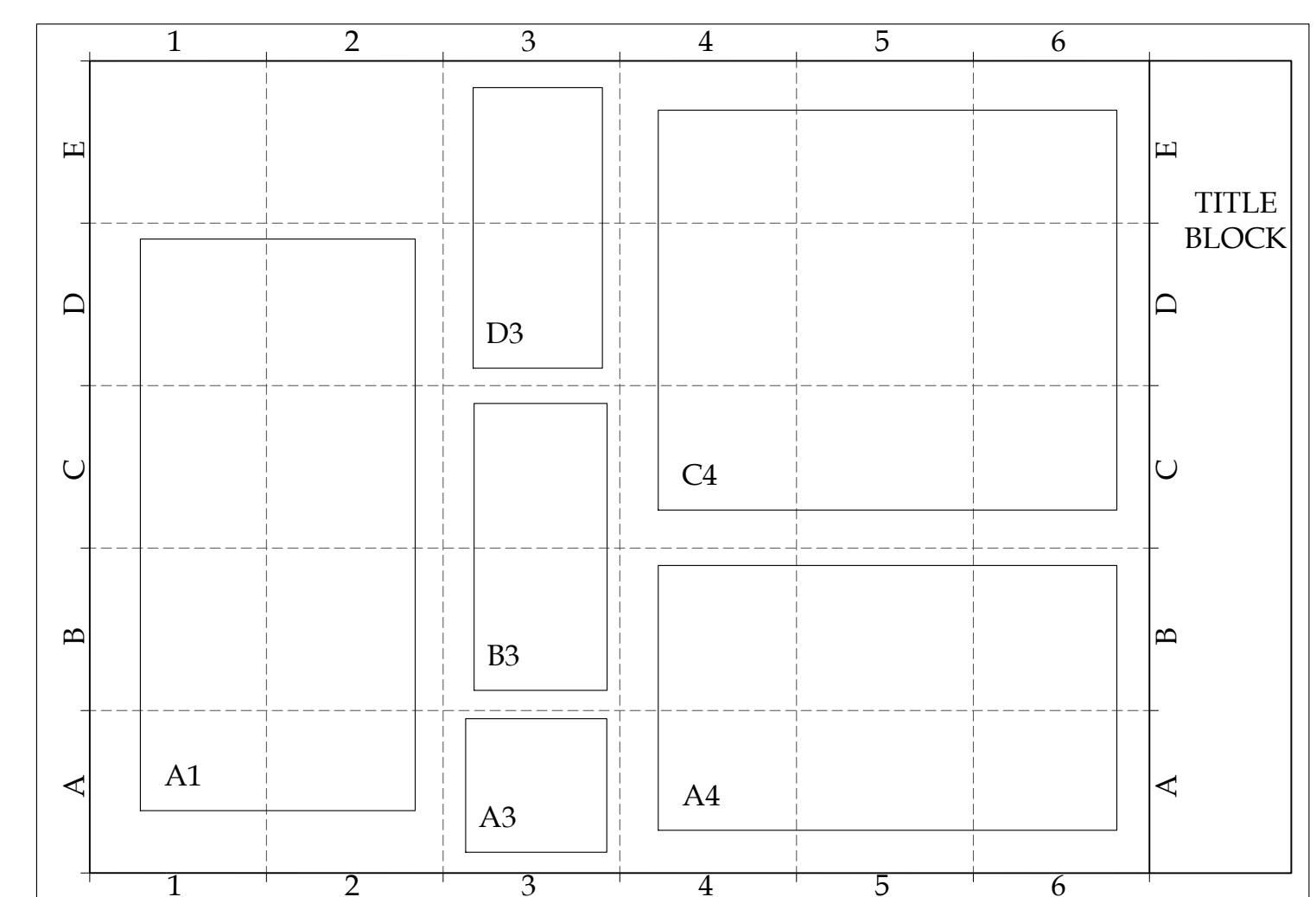
BUILDING DATA

OCCUPANCY CLASSIFICATION: B
CONSTRUCTION TYPE: IIB
TOTAL WORK AREA: 1,170 SF

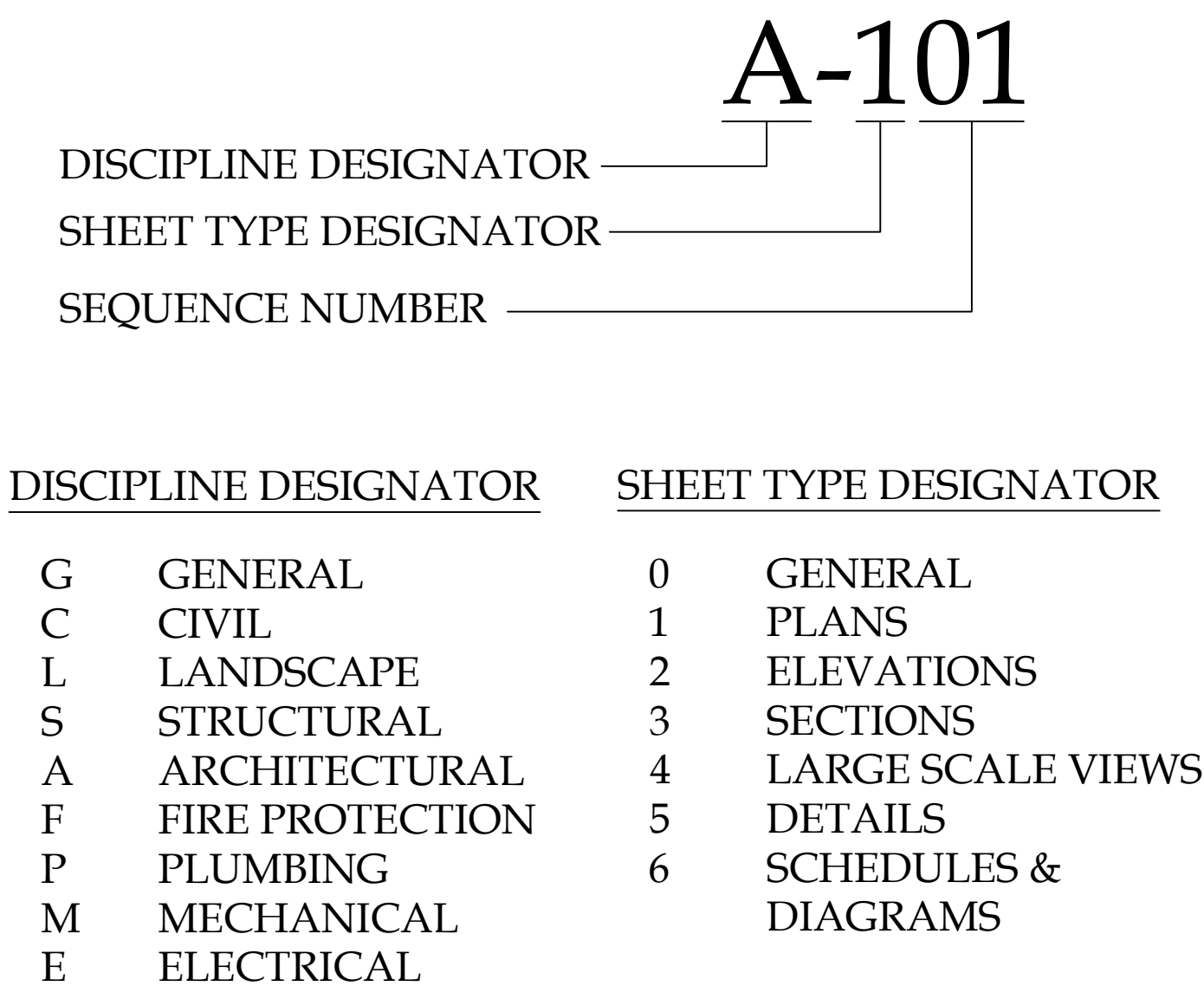
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DRAWING AREA LOGIC

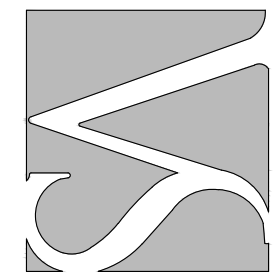


SHEET IDENTIFICATION LOGIC

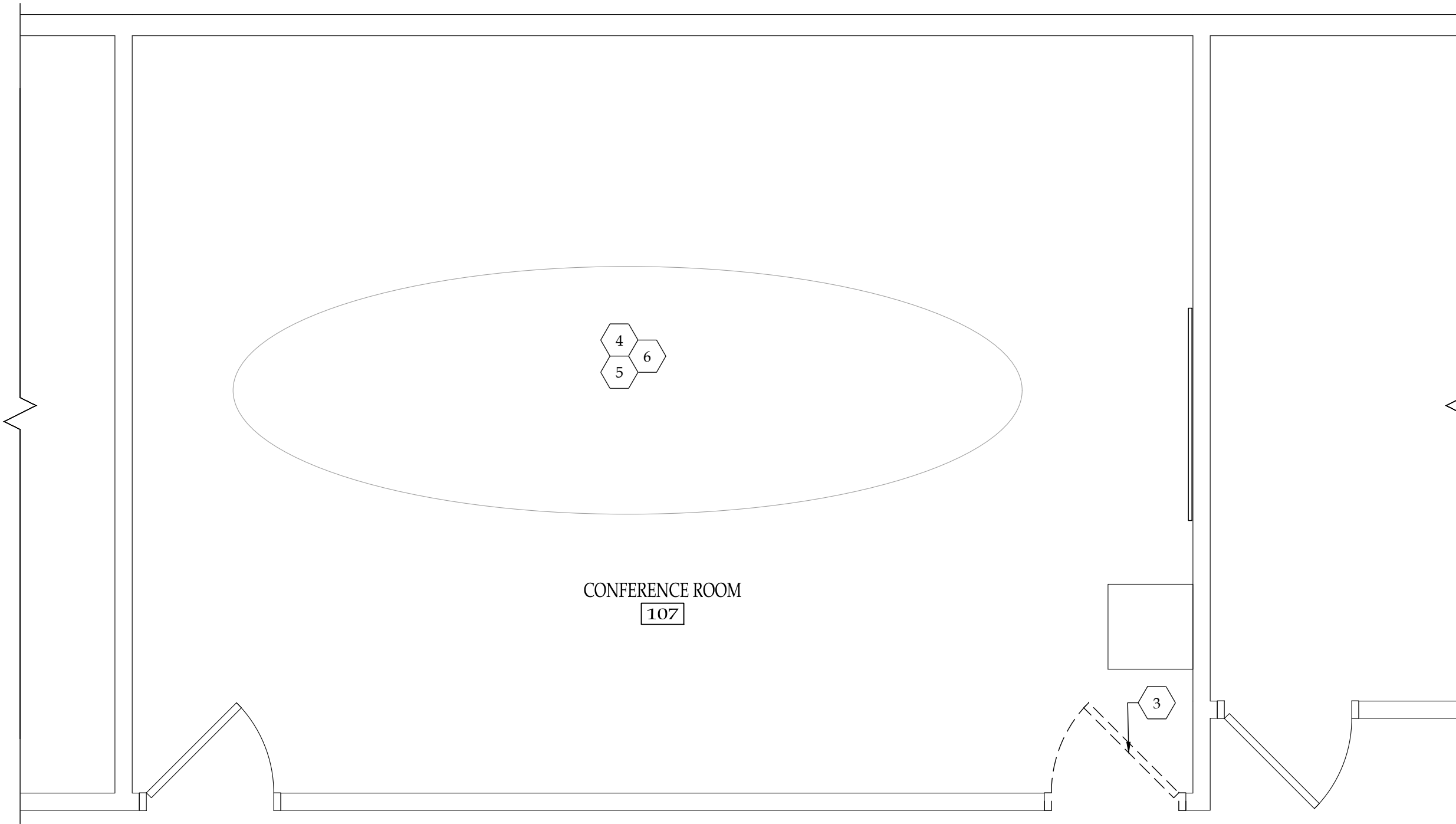


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SA PROJECT TEAM: PRINCIPAL: P.Silvestri PROJ. ARCHITECT: _____ JOB CAPTAIN: S.Hunt DRAFTER: _____ INTERIORS: N. Catruzza



D1 DEMOLITION PLAN - CONFERENCE ROOM
SCALE: 3/8"=1'-0"

- ### GENERAL DEMOLITION NOTES
- IN GENERAL, ITEMS TO BE REMOVED ARE SHOWN DASHED. THE CONTRACTOR WILL BE REQUIRED TO REMOVE ALL ITEMS INDICATED, IMPLIED OR OTHERWISE NECESSARY TO ALLOW FOR NEW CONSTRUCTION. CONTRACTOR TO VERIFY IN FIELD ANY ADDITIONAL DEMOLITION REQUIRED TO PREPARE AREA FOR NEW CONSTRUCTION PER PLANS.
 - COORDINATE ALL NEW OPENINGS WITH ARCHITECTURAL DRAWINGS.
 - CONTRACTOR TO PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN DURING CONSTRUCTION AND REPLACE DAMAGED FINISHES AS NECESSARY.
 - THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING DEMOLITION OR CONSTRUCTION AND IS TO REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL DEMOLISHED ITEMS FROM THE SITE. ALL DEMOLISHED ITEMS TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
 - PATCH AND REPAIR EXISTING SURFACES DAMAGED BY DEMOLITION. ALL REPAIR WORK SHALL MATCH EXISTING ADJACENT MATERIALS AND METHODS.
 - ALL EXISTING SURFACES LEFT EXPOSED AFTER DEMOLITION SHALL BE PROTECTED AND SAFEGUARDED FROM EXPOSURE FROM WEATHER AND OR DAMAGE FROM CONSTRUCTION DURING CONSTRUCTION.
 - REMOVE AND DISPOSE OF EXISTING FLOOR FINISHES WHERE APPLICABLE. PREPARE UNDERLYING SURFACES TO ACCEPT NEW CONSTRUCTION AND FINISHES
 - IF ANY WASTE MATERIALS ENCOUNTERED DURING THE DEMOLITION OR CONSTRUCTION PHASE ARE FOUND TO CONTAIN LEAD, ASBESTOS, POLYCHLORINATED BIPHENYL (PCBS) (SUCH AS FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES, THEY SHALL BE HANDLED AND REMOVED IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.

- ### DEMOLITION NOTES
1. REMOVE EXIST. WALL. PATCH/REPAIR ADJACENT WALL AS REQ'D. PREPARE ANY ELECTRICAL, OUTLETS, EMERGENCY LIGHTING, THERMOSTATS, SWITCHES, ETC... FOR RELOCATION OR TERMINATION AS REQ'D
 2. REMOVE PORTION OF EXISTING WALL. PREPARE OPENING FOR NEW FIREPLACE. COORDINATE ROUGH OPENING SIZE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE NEW HEADER & JAMBS AS REQ'D. REWORK ELECTRICAL DEVICES, (OUTLETS, ETC.) AS REQ'D. (SEE ELEC. DWGS).
 3. REMOVE EXIST. DOOR/WINDOW, FRAME, & ASSOCIATED HARDWARE IN ITS ENTIRETY. COORDINATE ANY SALVAGE OF DOORS WITH OWNER.
 4. REMOVE EXIST. FLOORING, BASE AND ANY ADHESIVES. PREP SUBFLOOR TO RECEIVE NEW FLOORING PER FINISH PLAN.
 5. REMOVE EXISTING CEILING GRID AND ACOUSTICAL CEILING TILE. DISCONNECT & REMOVE ALL ELECTRICAL DEVICES INCLUDING SUSPENDED LIGHT FIXTURES & ITS ENTIRETY. COORDINATE SALVAGE WITH OWNER.
 6. REMOVE EXISTING WOOD WAINSCOT. PATCH AND REPAIR WALLS TO MAKE PAINT READY.

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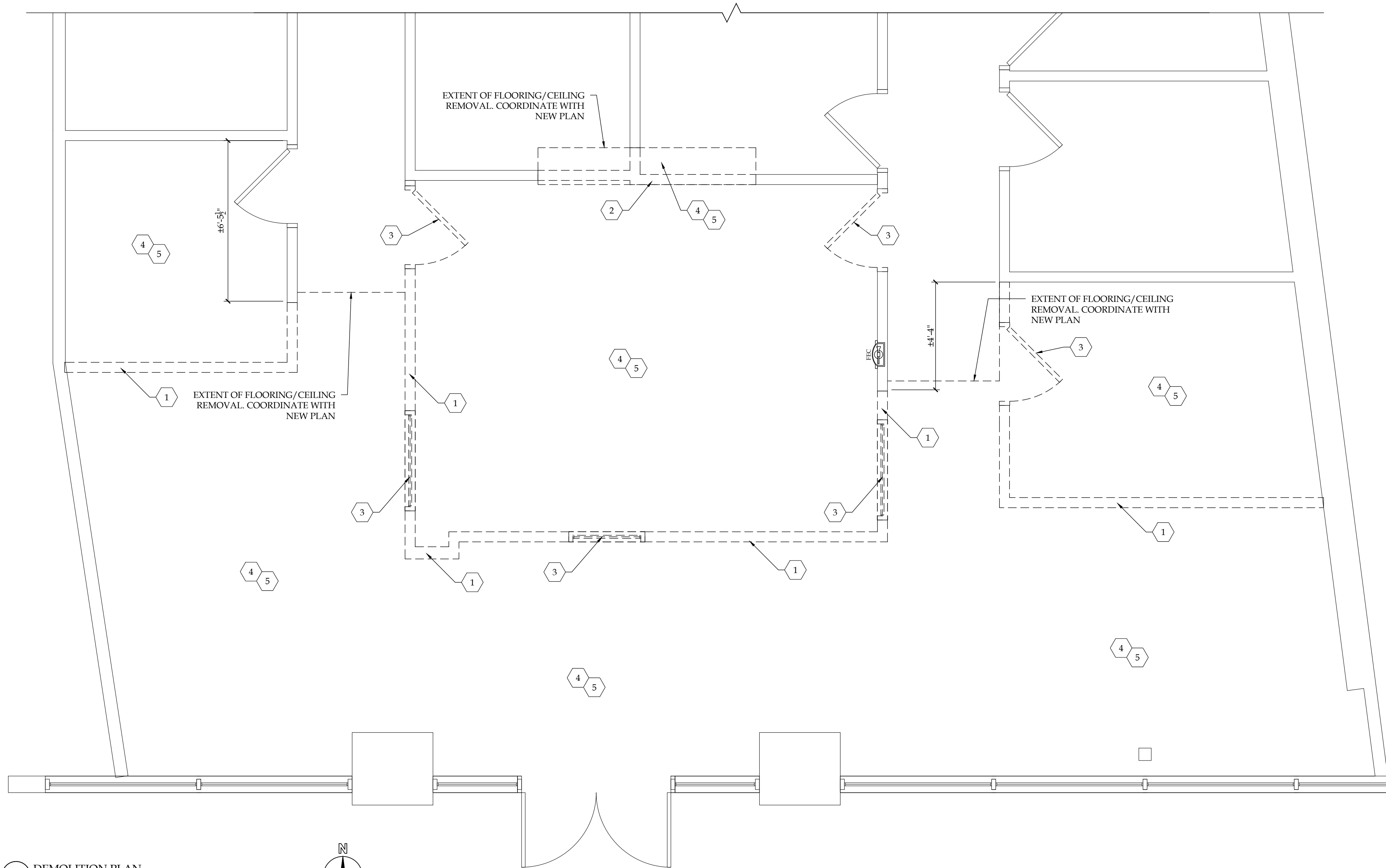
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DEMOLITION PLAN

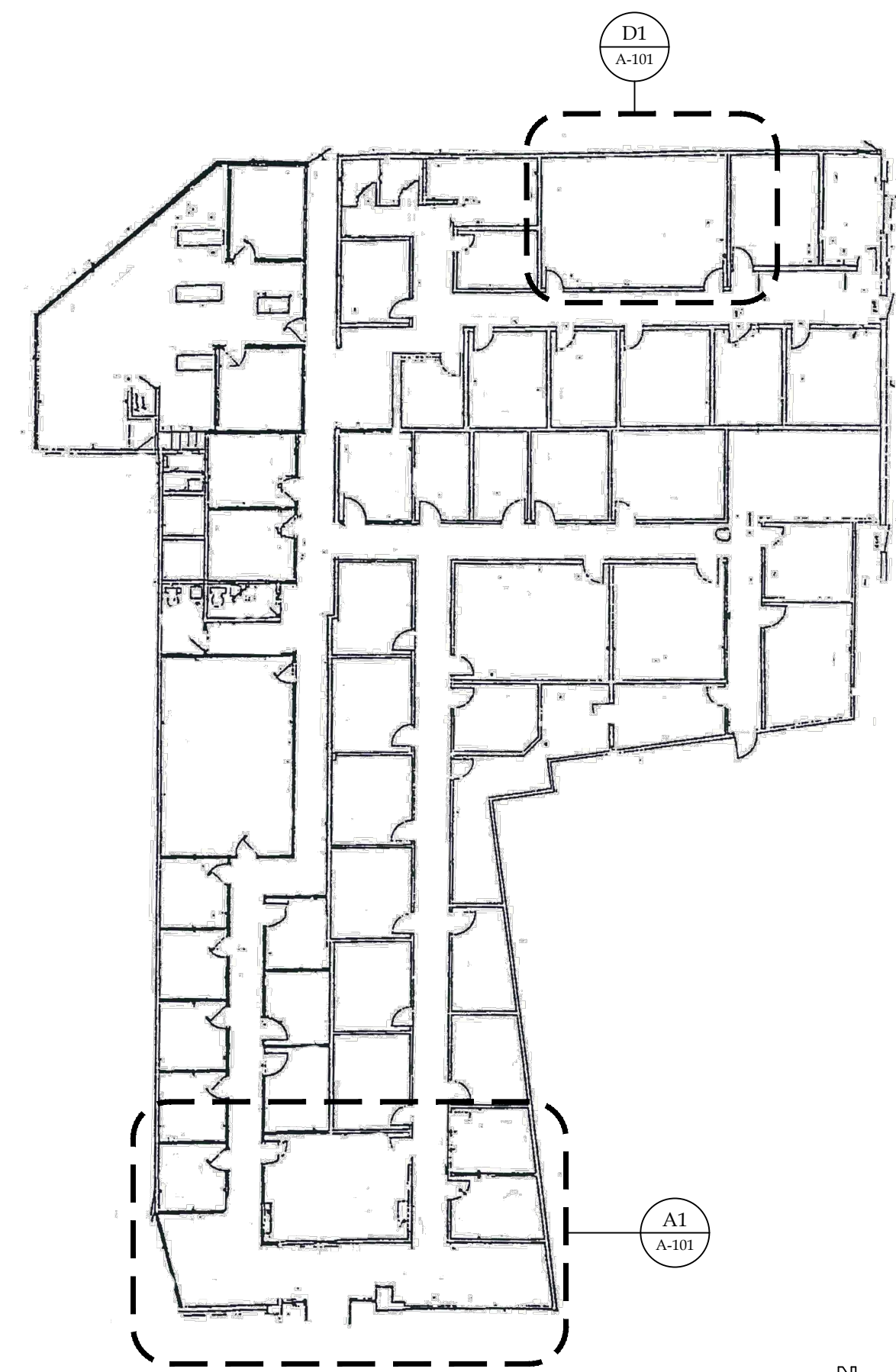
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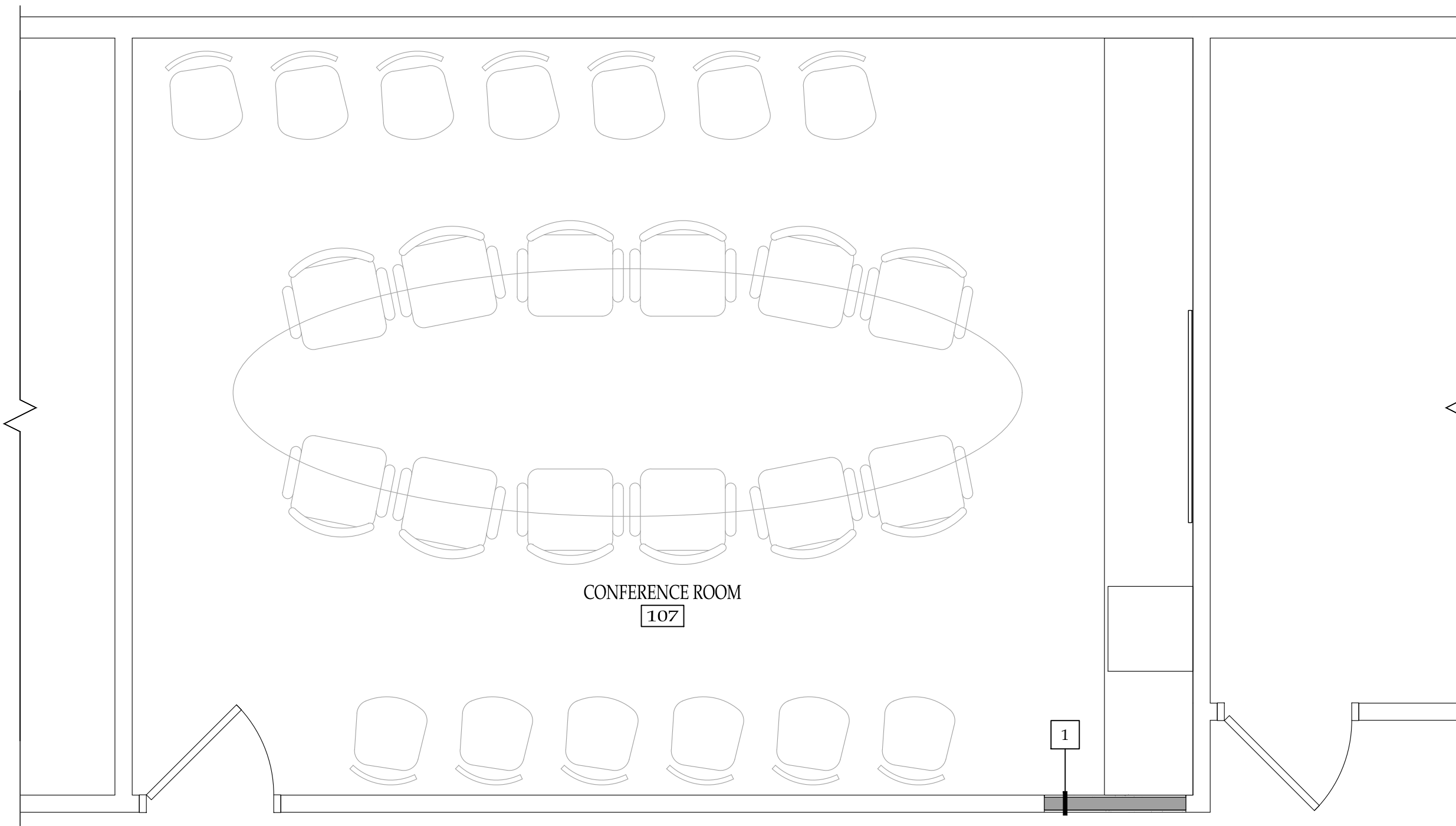
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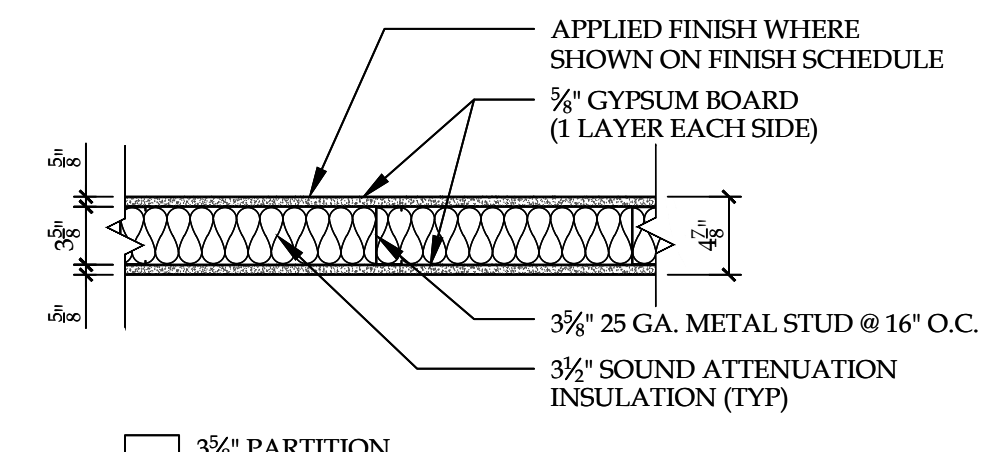
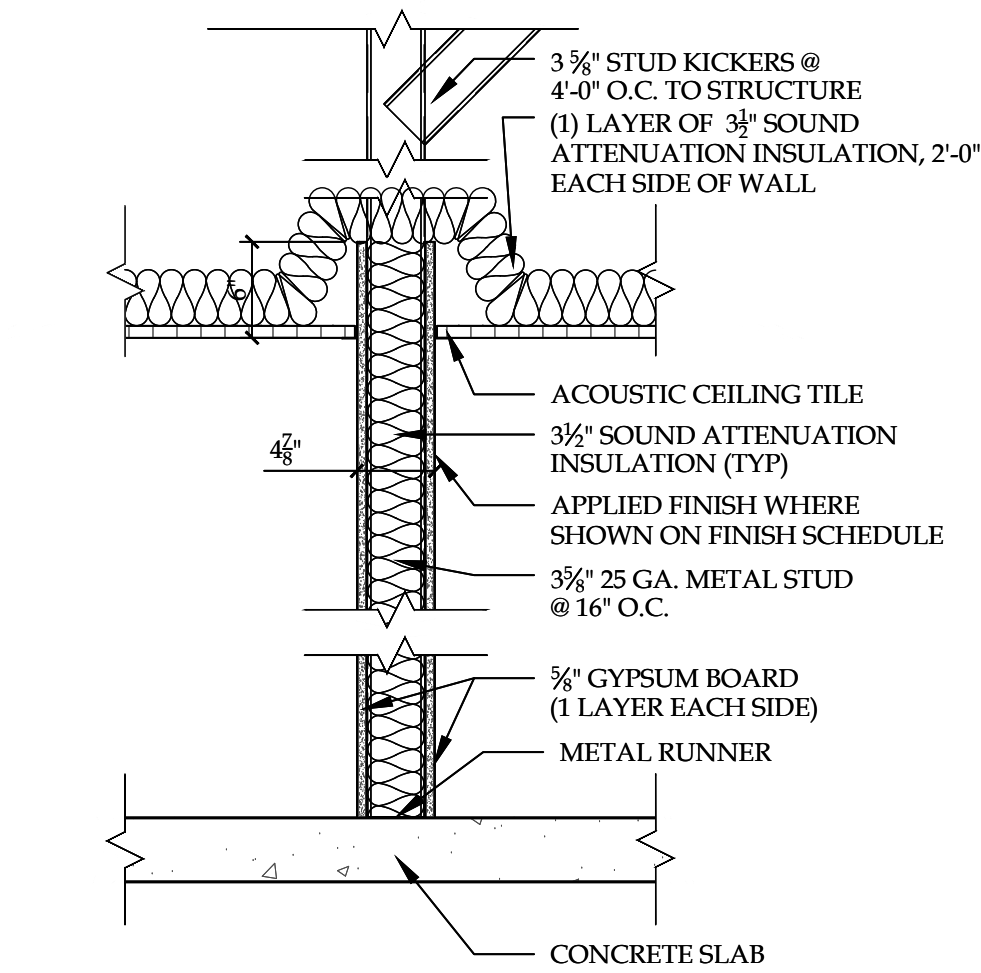
A1 DEMOLITION PLAN
SCALE: 3/8"=1'-0"



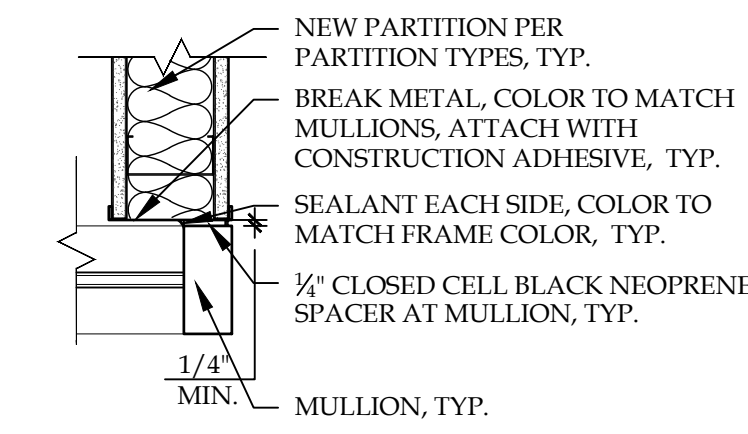
KEY PLAN
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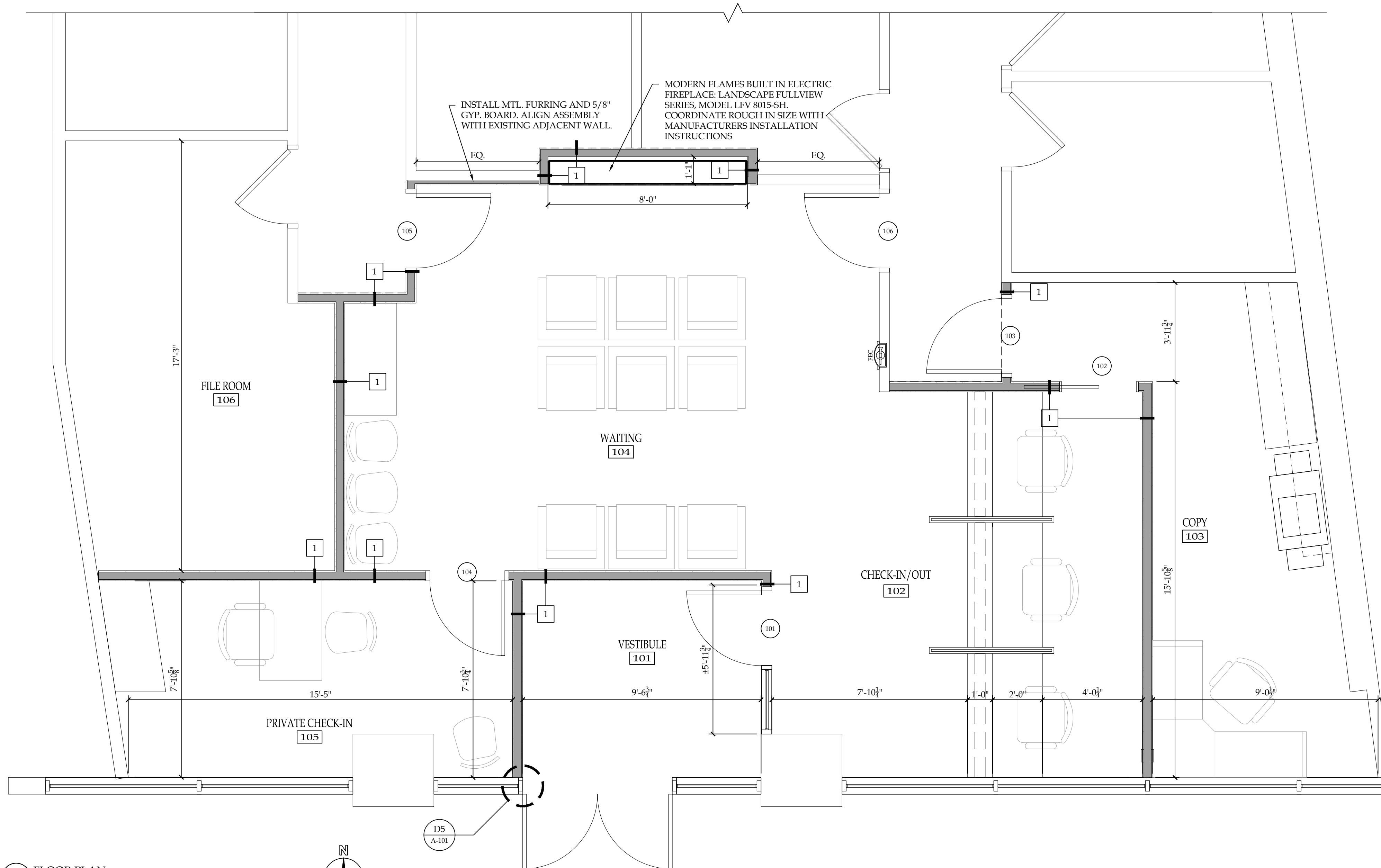
D1 FLOOR PLAN - CONFERENCE ROOM
SCALE: 3/8"=1'-0"



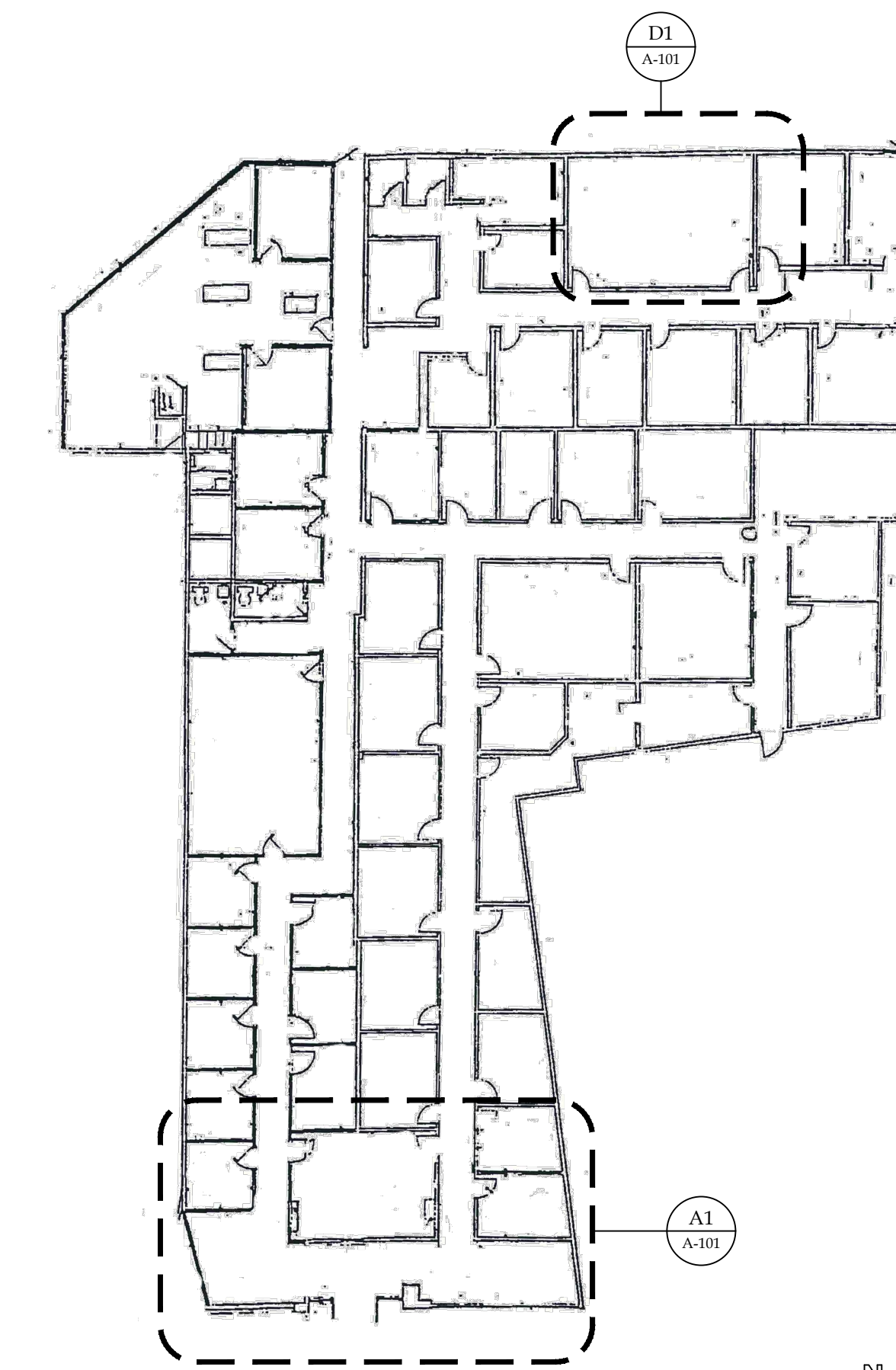
D4 PARTITION TYPES
SCALE: 1"=1'-0"



D5 PARTITION GLAZING INTERSECTION DETAIL
SCALE: 1"=1'-0"



A1 FLOOR PLAN
SCALE: 3/8"=1'-0"



KEY PLAN
SCALE: NOT TO SCALE

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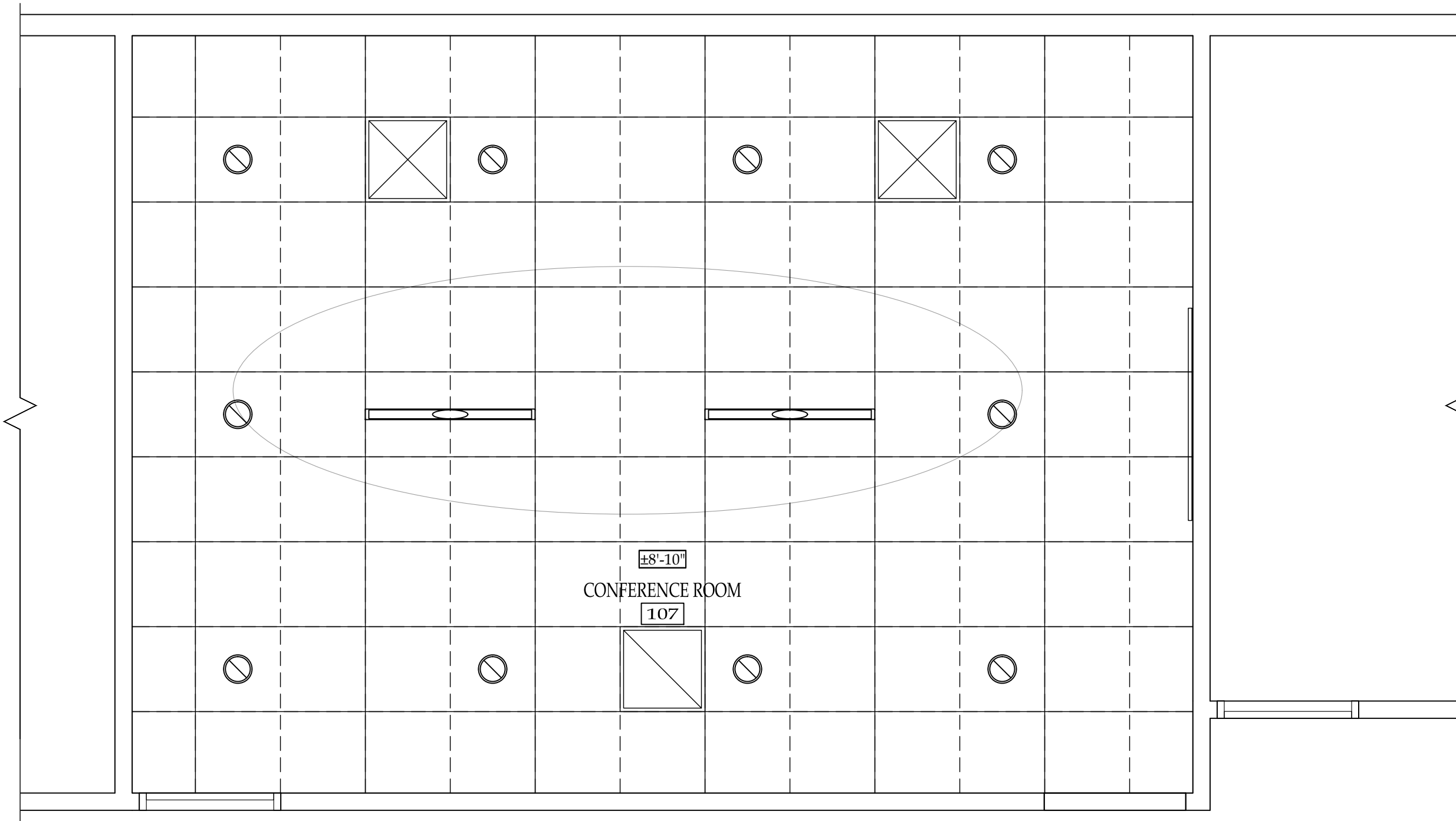
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JOB CAPT. _____ INTERIORS _____

TITLE:
FLOOR PLAN

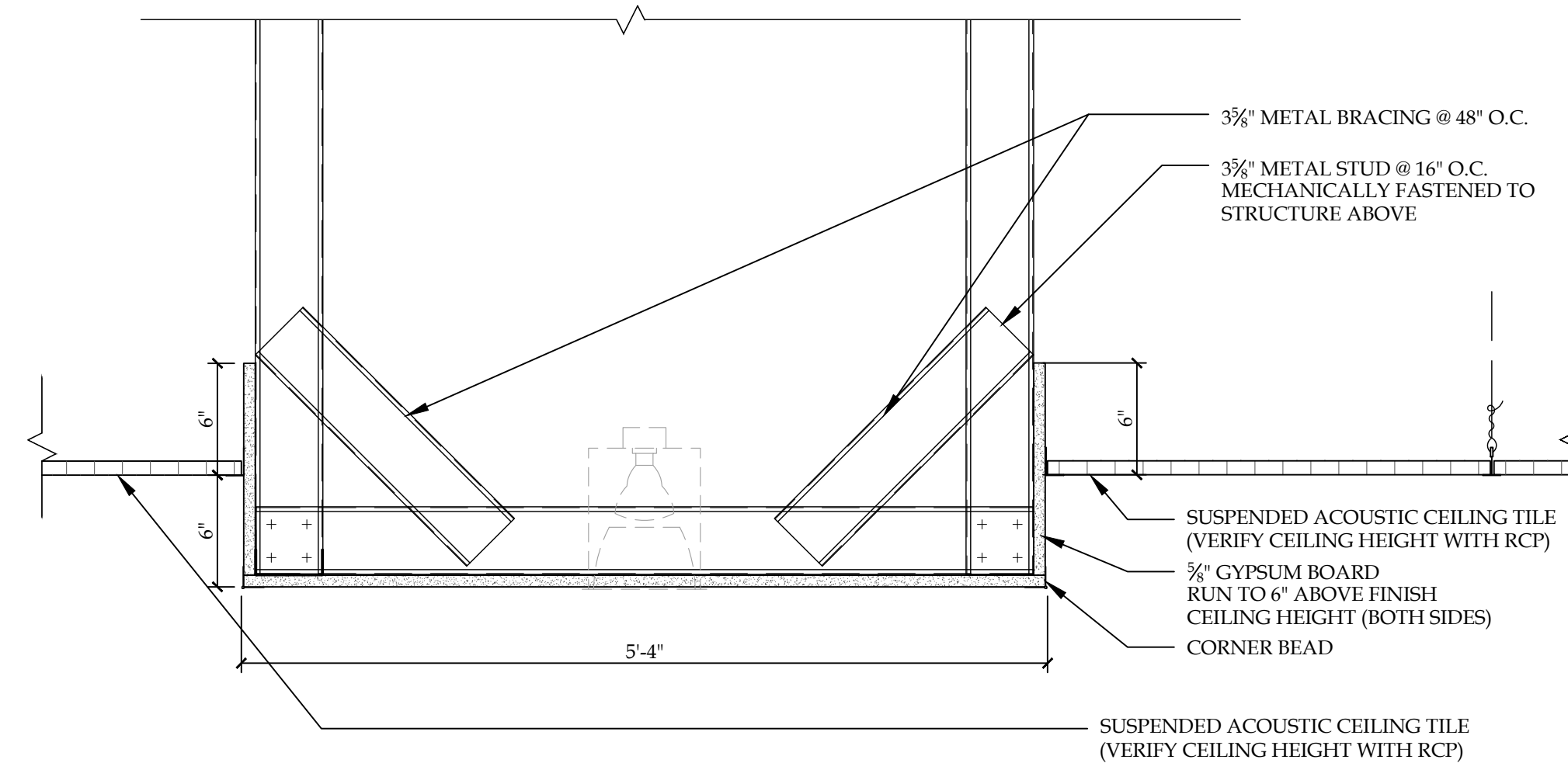
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DRAWING #: **A-101**



D1 REFLECTED CEILING PLAN - CONFERENCE ROOM
SCALE: 1/4"=1'-0"



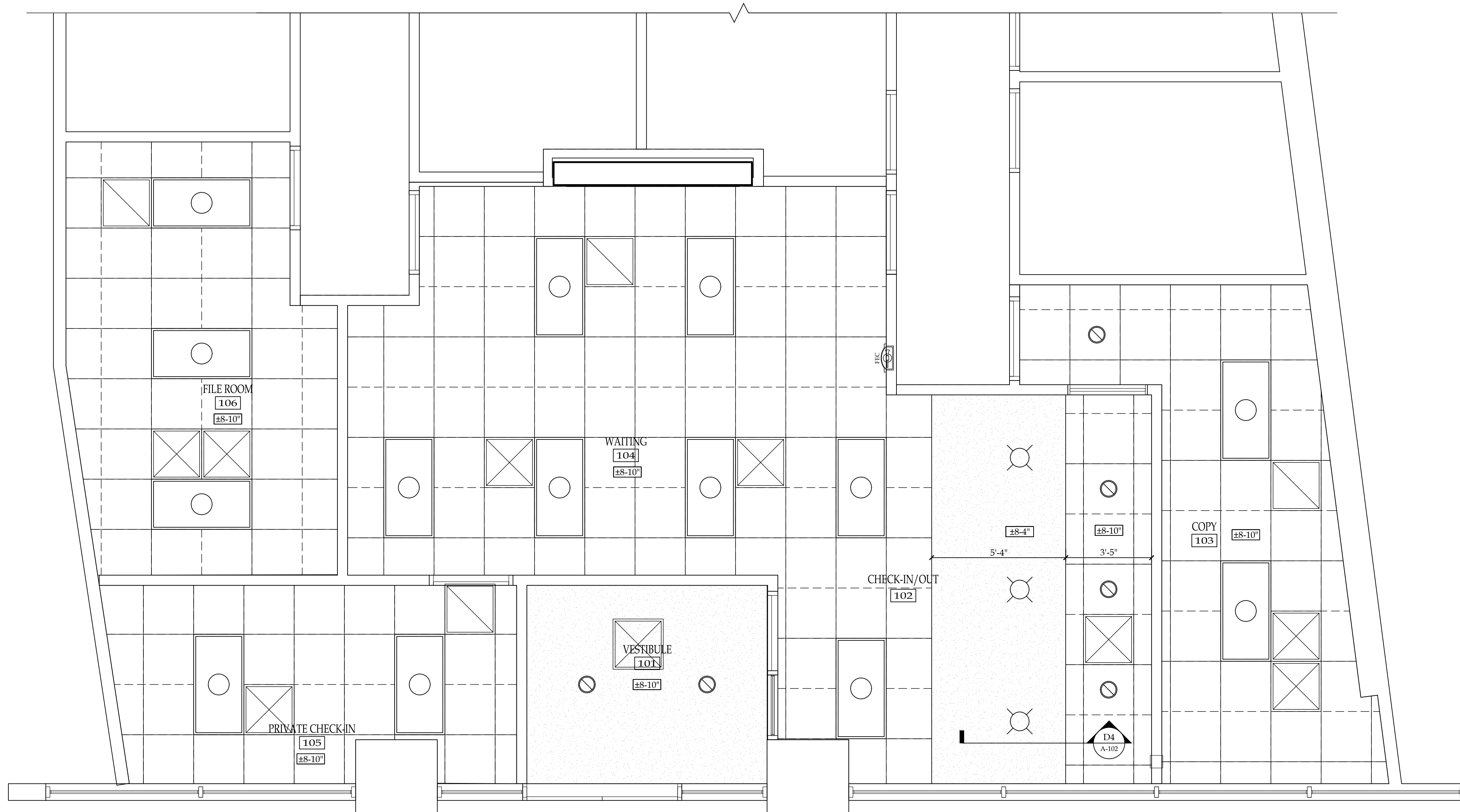
D4 SOFFIT DETAIL
SCALE: 1/2"=1'-0"

REFLECTED CEILING LEGEND

	2X4 SUSPENDED ACOUSTIC TILE CEILING
	GYPSUM BOARD CEILING
	2 X 4' LIGHT FIXTURE
	LINEAR PENDANT LIGHT
	PENDANT LIGHT
	EMERGENCY LIGHT
	EXIT SIGN

GENERAL NOTES

- COORDINATE W/ MEP DRAWINGS FOR ALL LIGHTING, ELECTRICAL, AND HVAC FIXTURES/DIFFUSERS.
- ALL LIGHTING TO BE CENTERED WITH IN SPACE AS SHOWN.
- VERIFY EXISTING CEILING HEIGHTS IN FIELD. NEW CEILING HEIGHT TO MATCH EXISTING.



A1 REFLECTED CEILING PLAN
SCALE: 3/8"=1'-0"

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REFLECTED CEILING PLAN

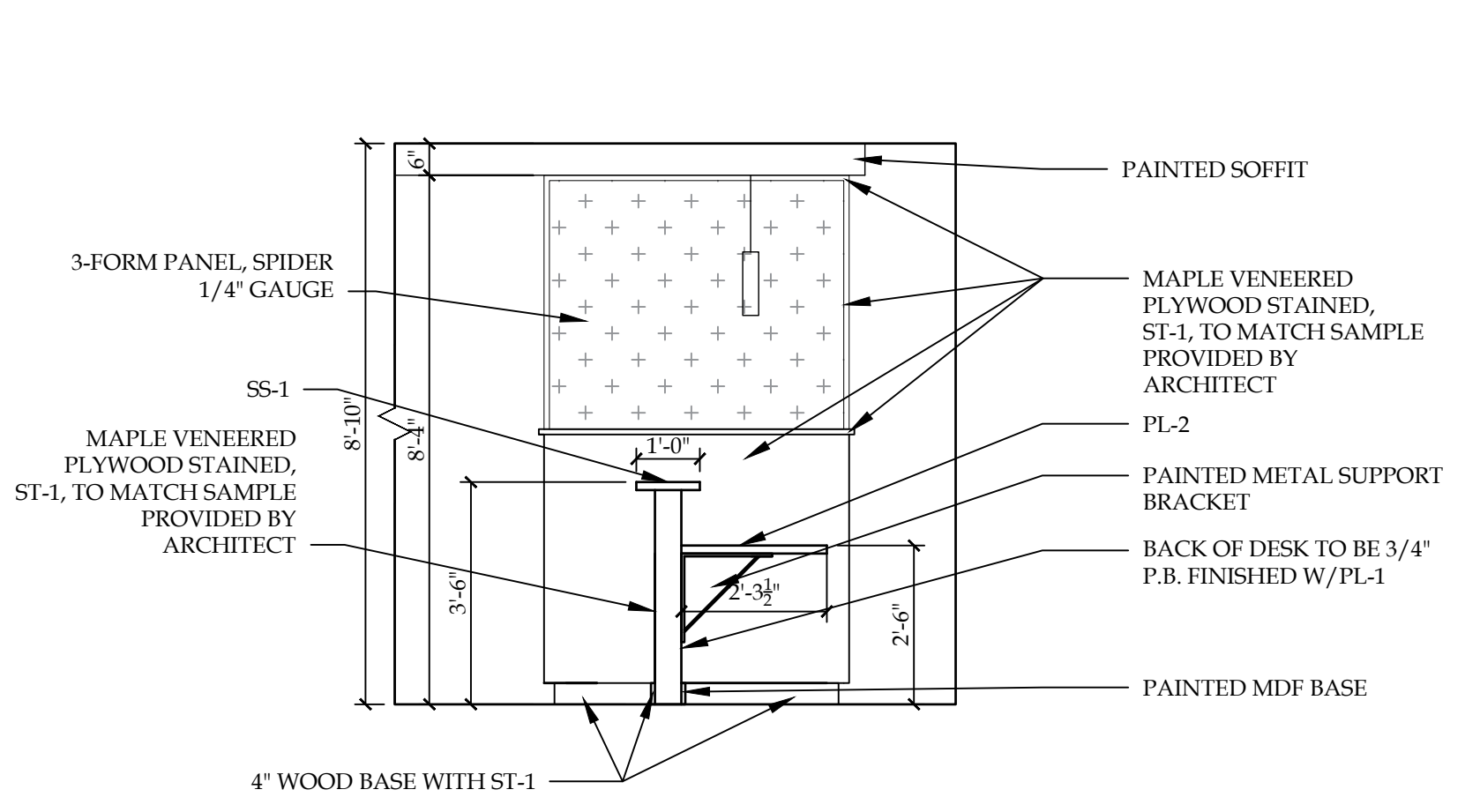


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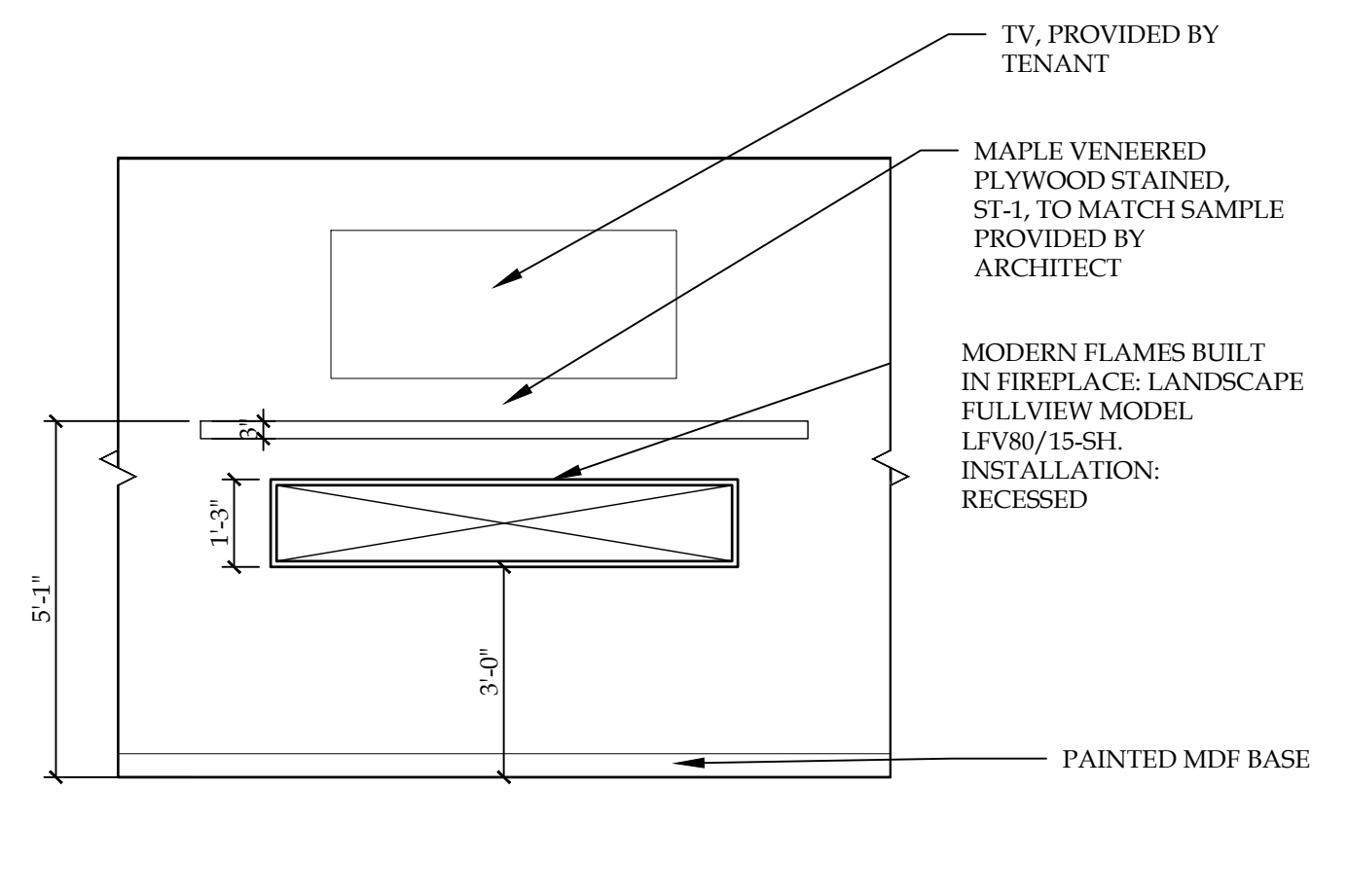
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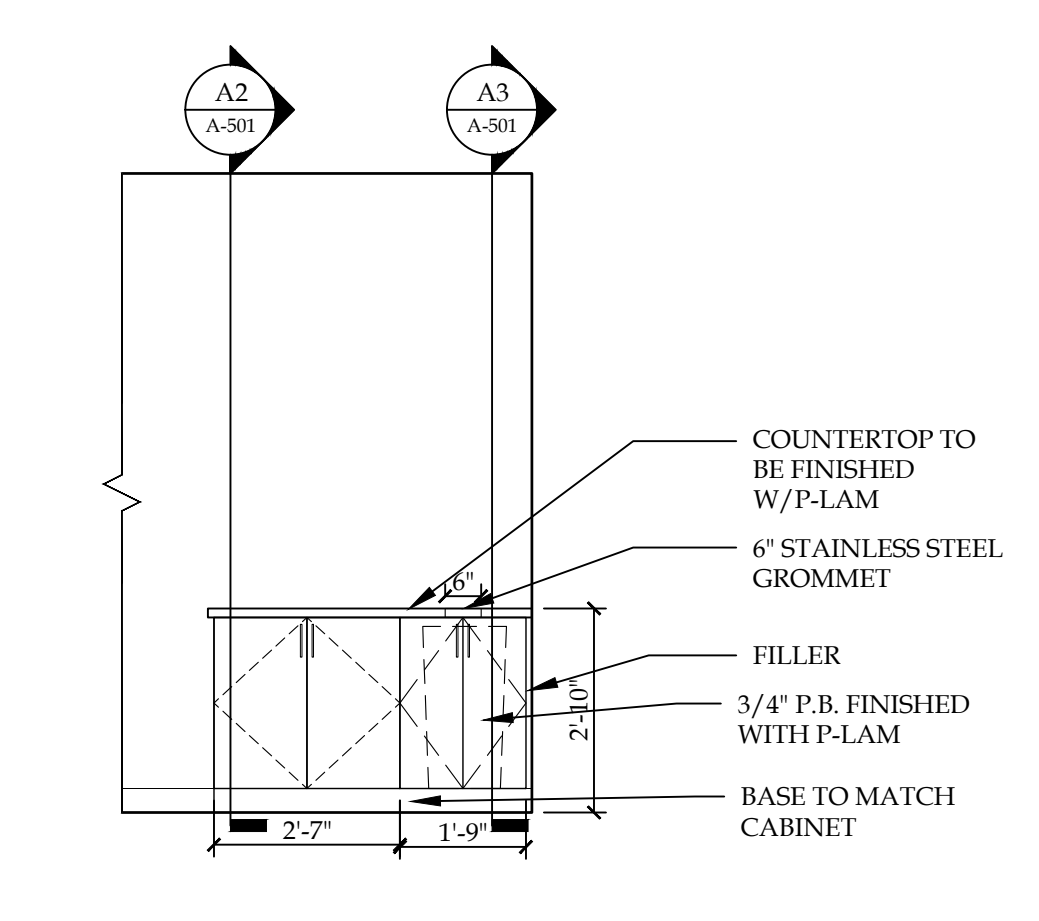
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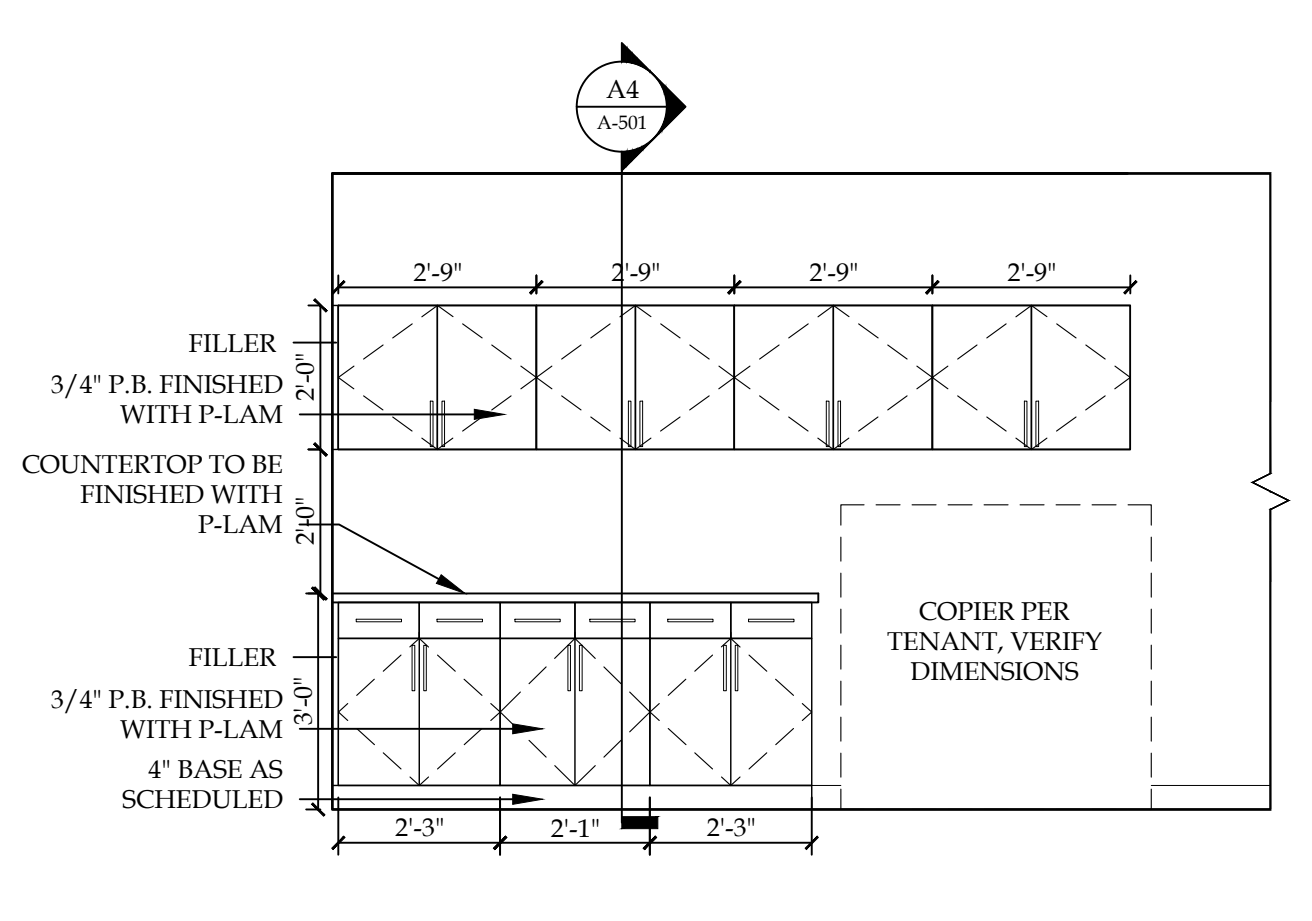
E1 ELEVATION - RECEPTION
SCALE: 3/8"=1'-0"



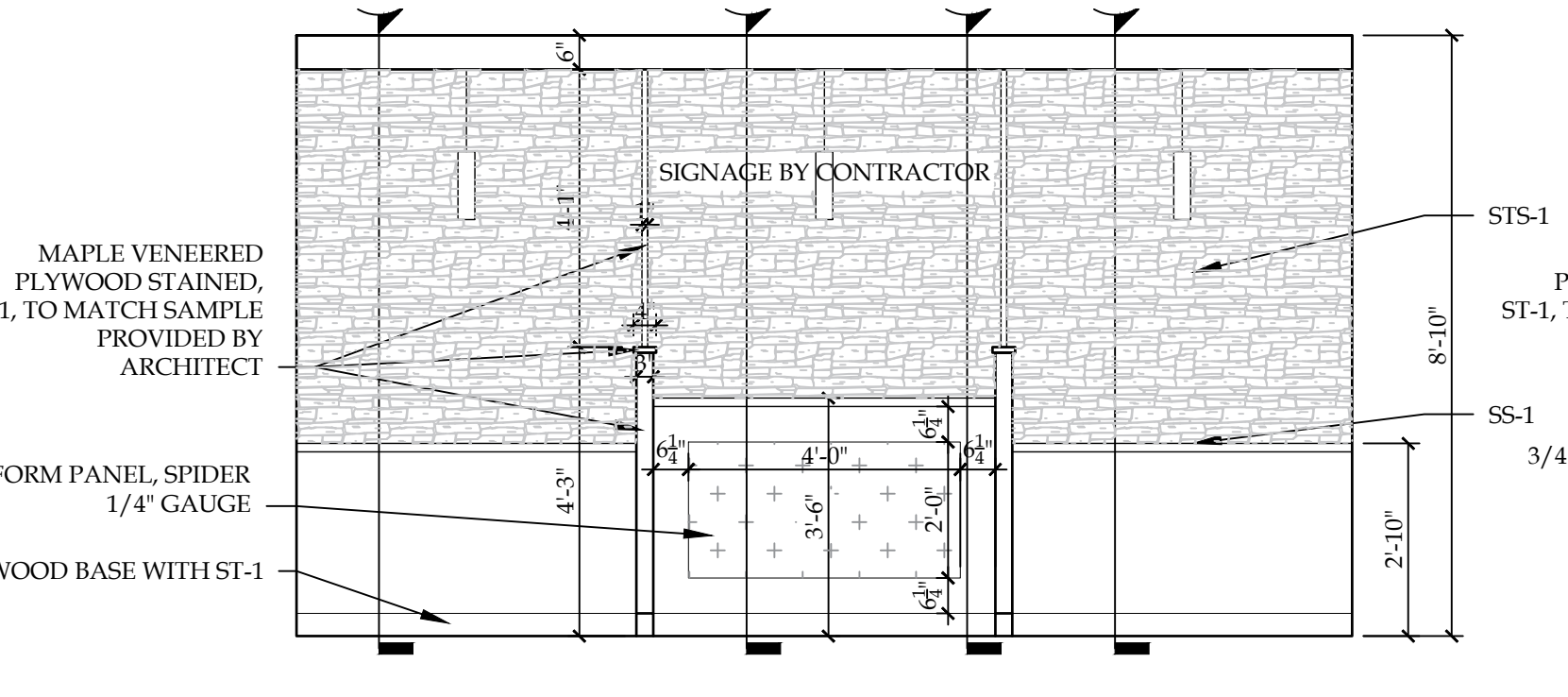
E3 ELEVATION - FIREPLACE
SCALE: 3/8"=1'-0"



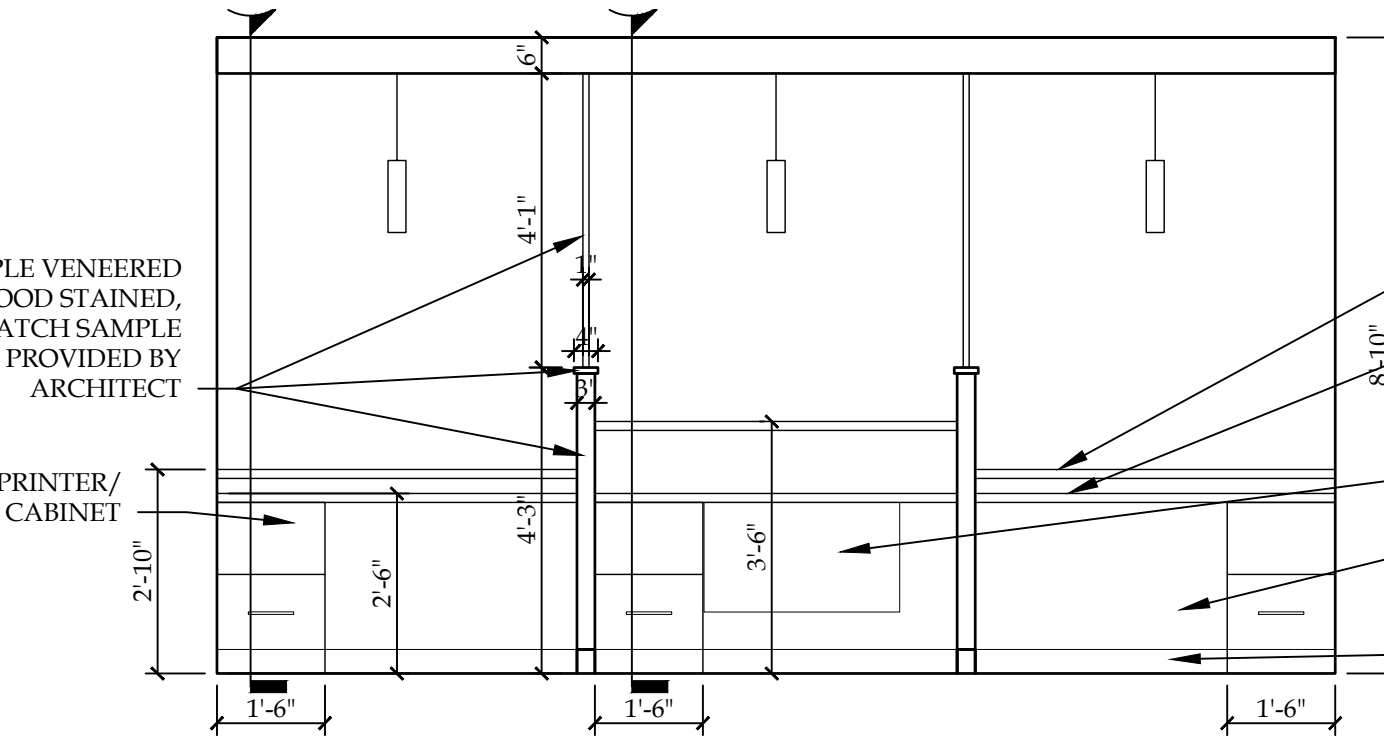
E4 ELEVATION - COFFEE
SCALE: 3/8"=1'-0"



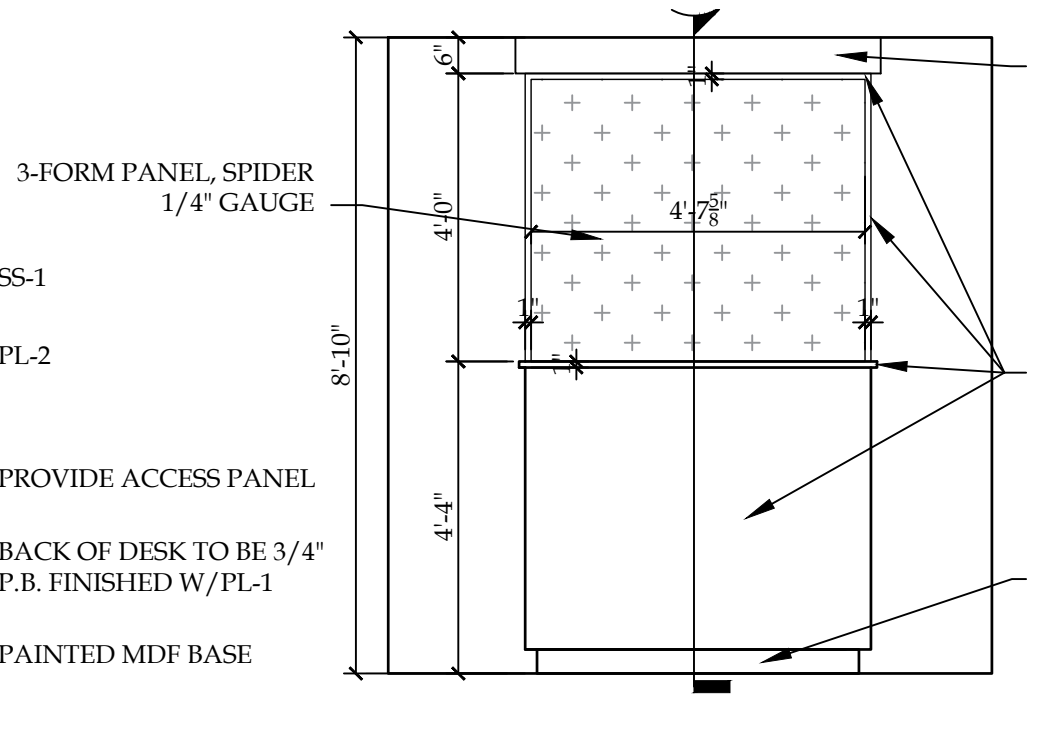
E6 ELEVATION - COPY
SCALE: 3/8"=1'-0"



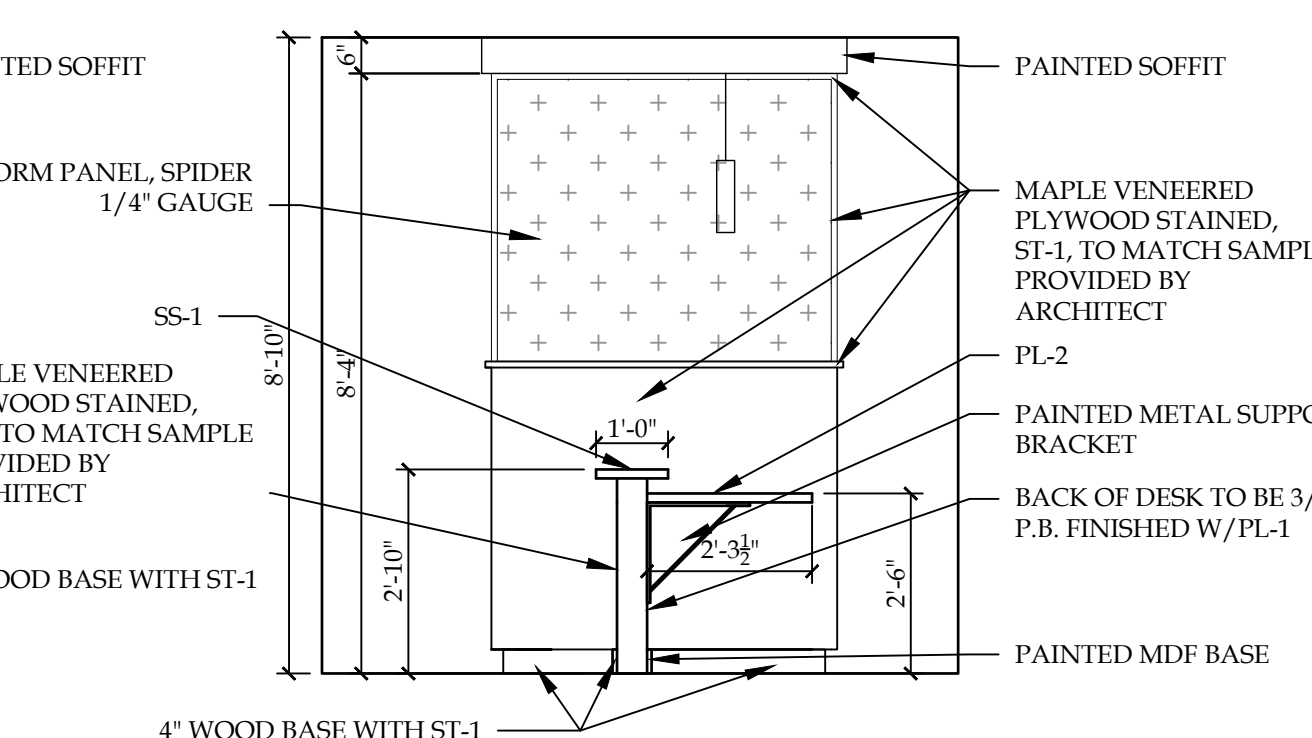
D1 ELEVATION - RECEPTION
SCALE: 3/8"=1'-0"



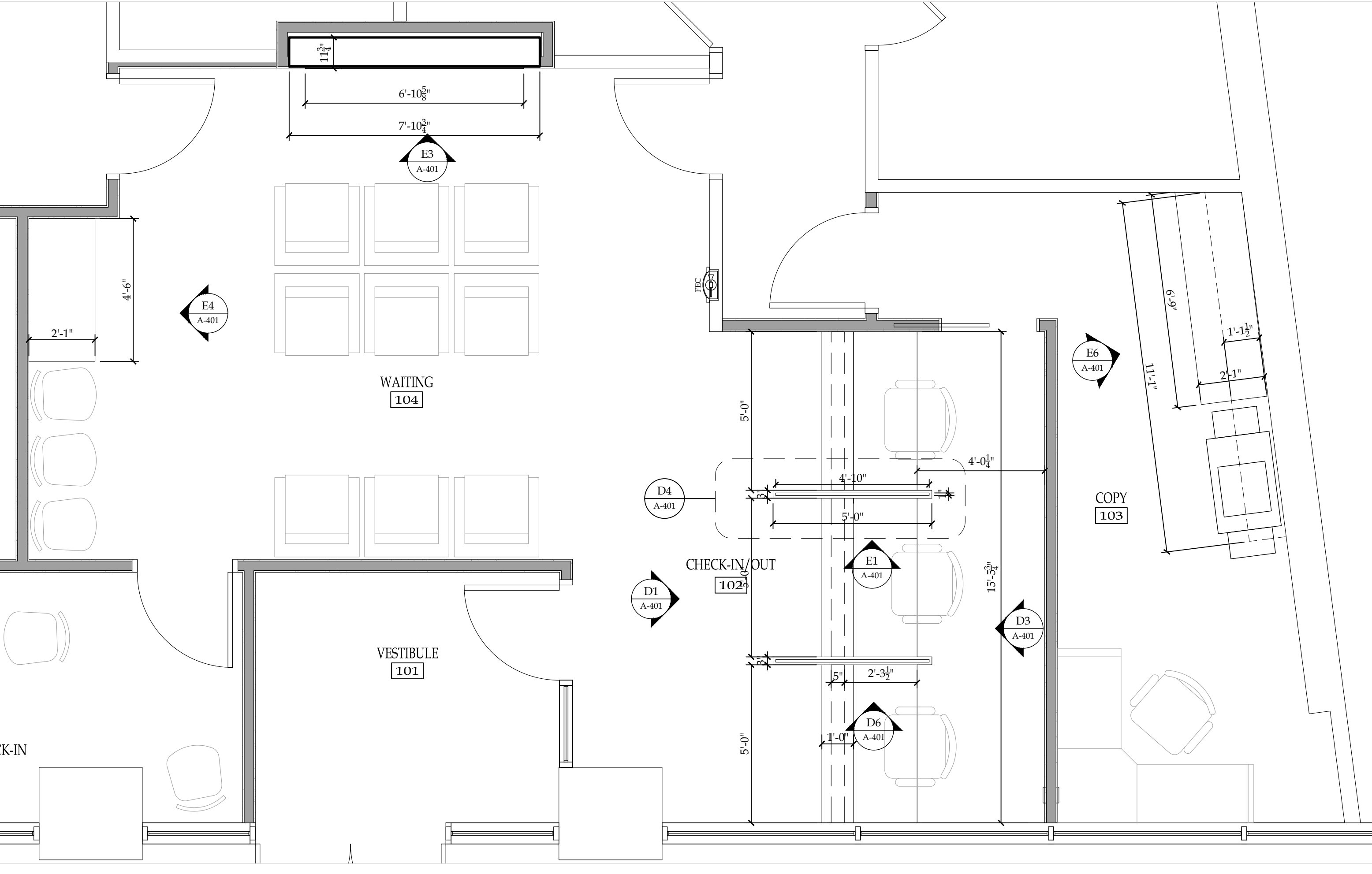
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SCALE: 3/8"=1'-0"



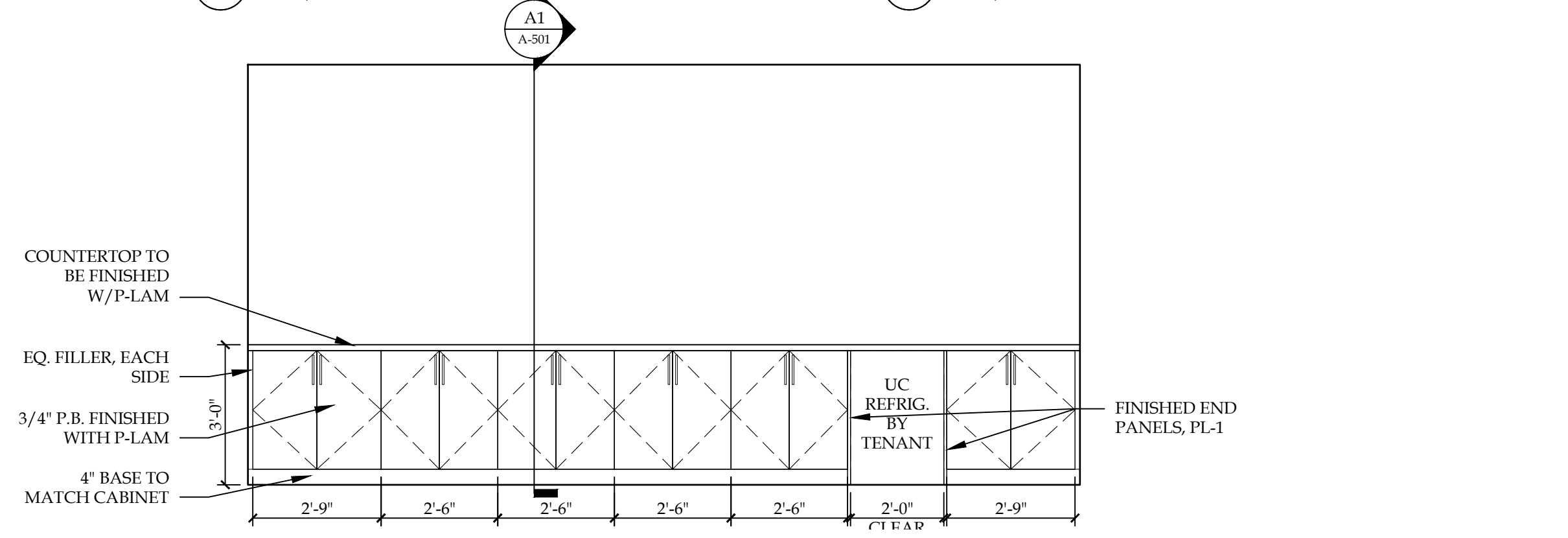
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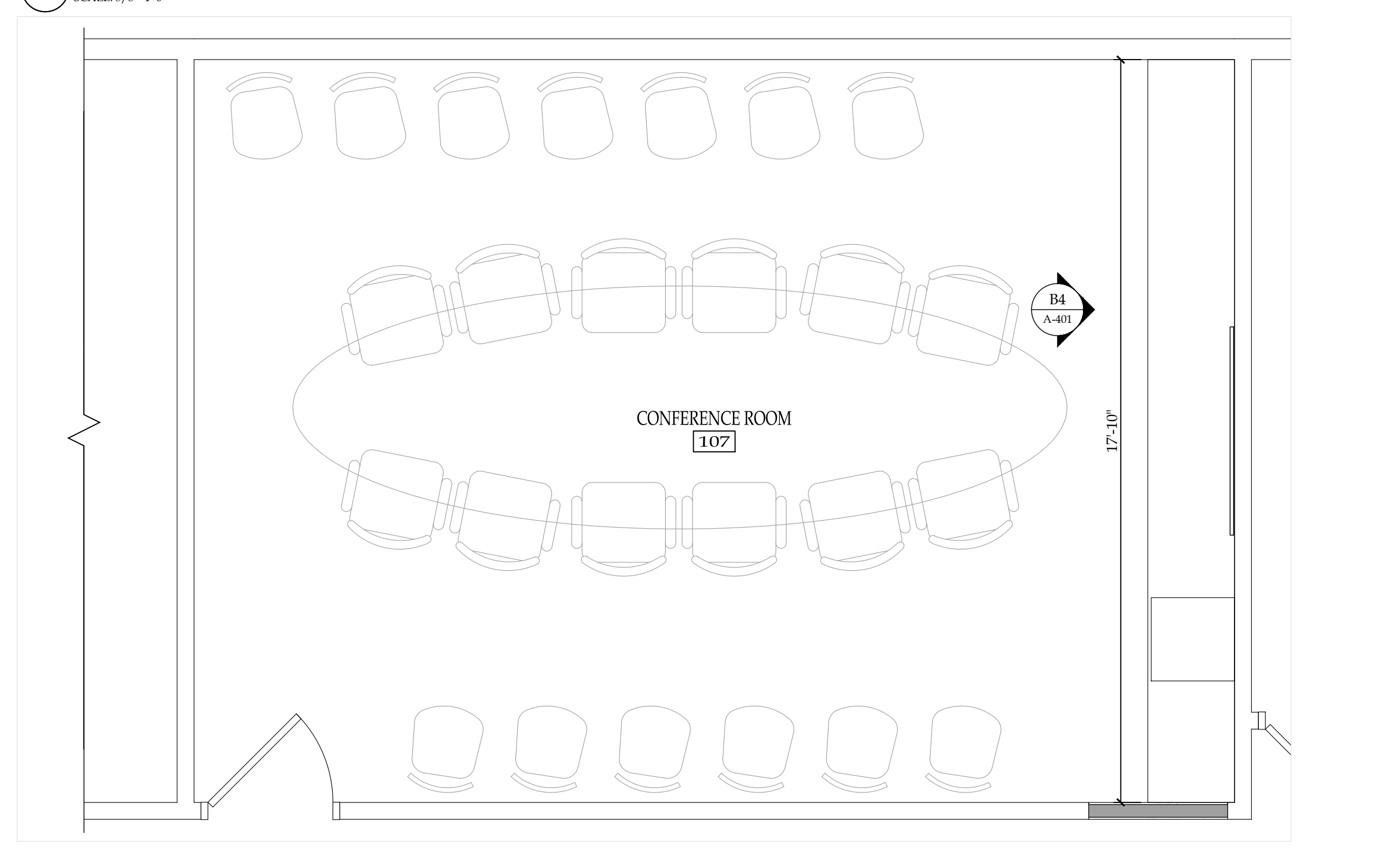
D6 ELEVATION - RECEPTION
SCALE: 3/8"=1'-0"



A1 ENLARGED PLAN - WAITING #104
SCALE: 3/8"=1'-0"



B4 ELEVATION - CONFERENCE ROOM
SCALE: 3/8"=1'-0"



A4 ENLARGED PLAN - WAITING #104
SCALE: 3/8"=1'-0"

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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE: ENLARGED PLANS & ELEVATIONS



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SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: A-401

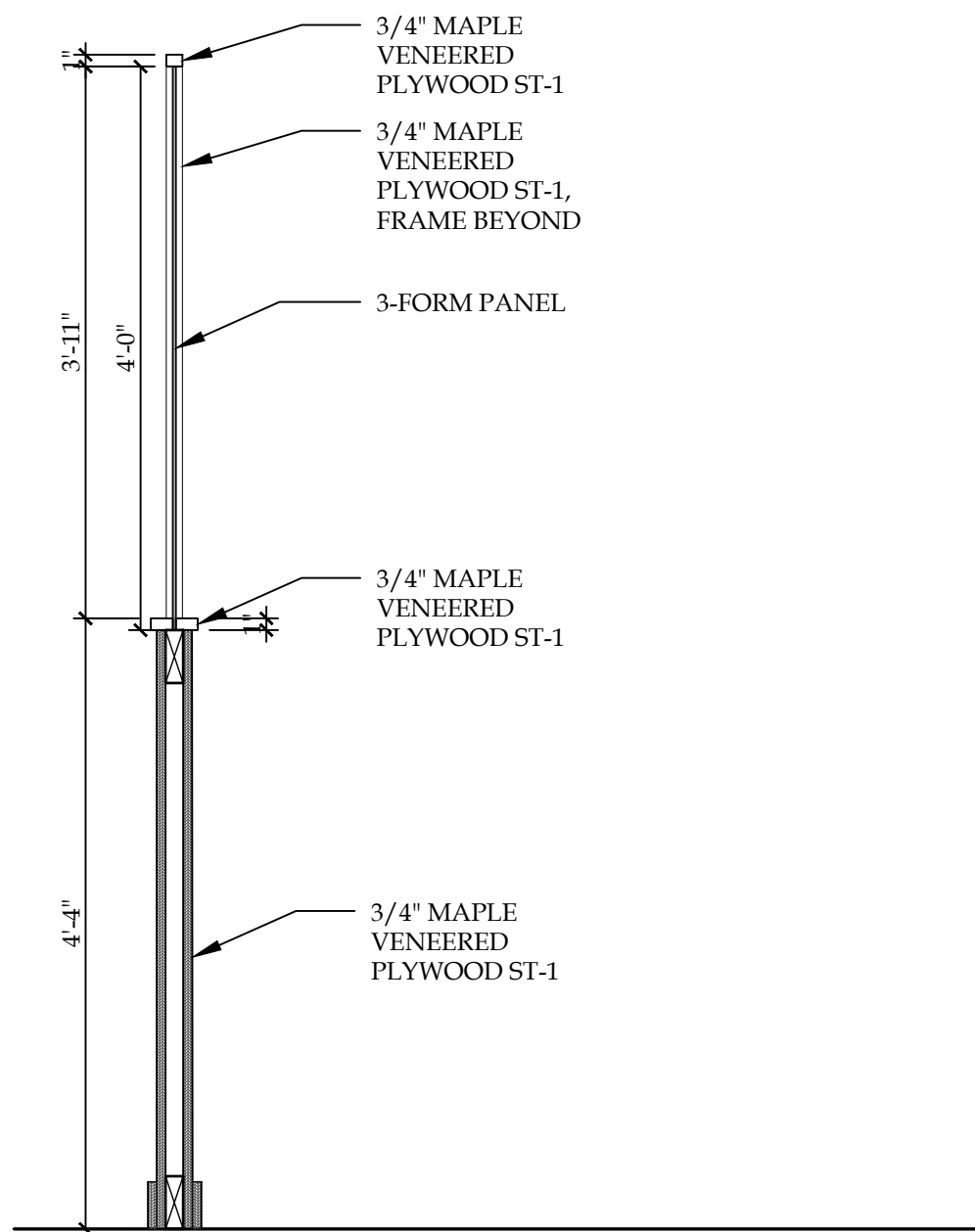
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D

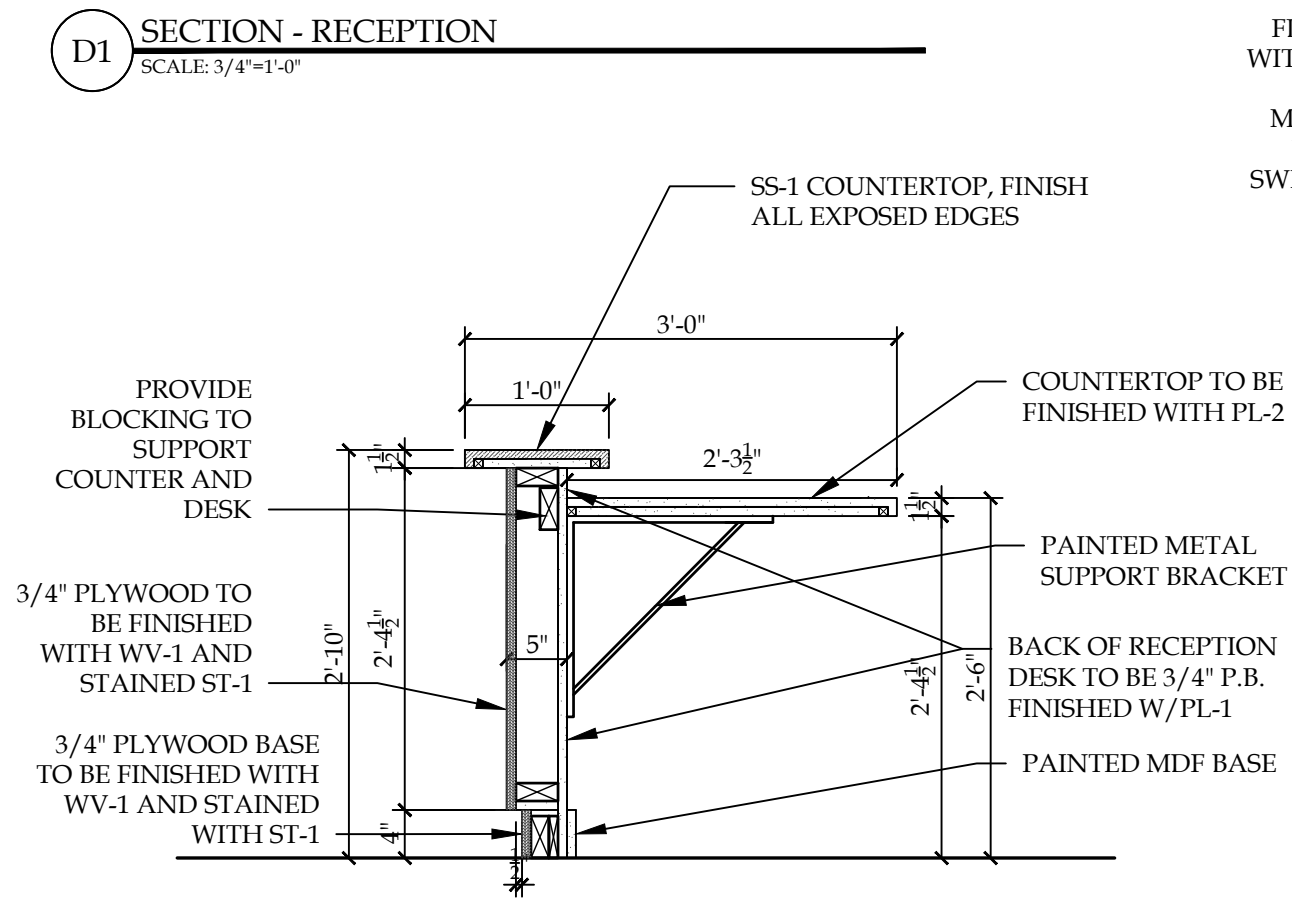
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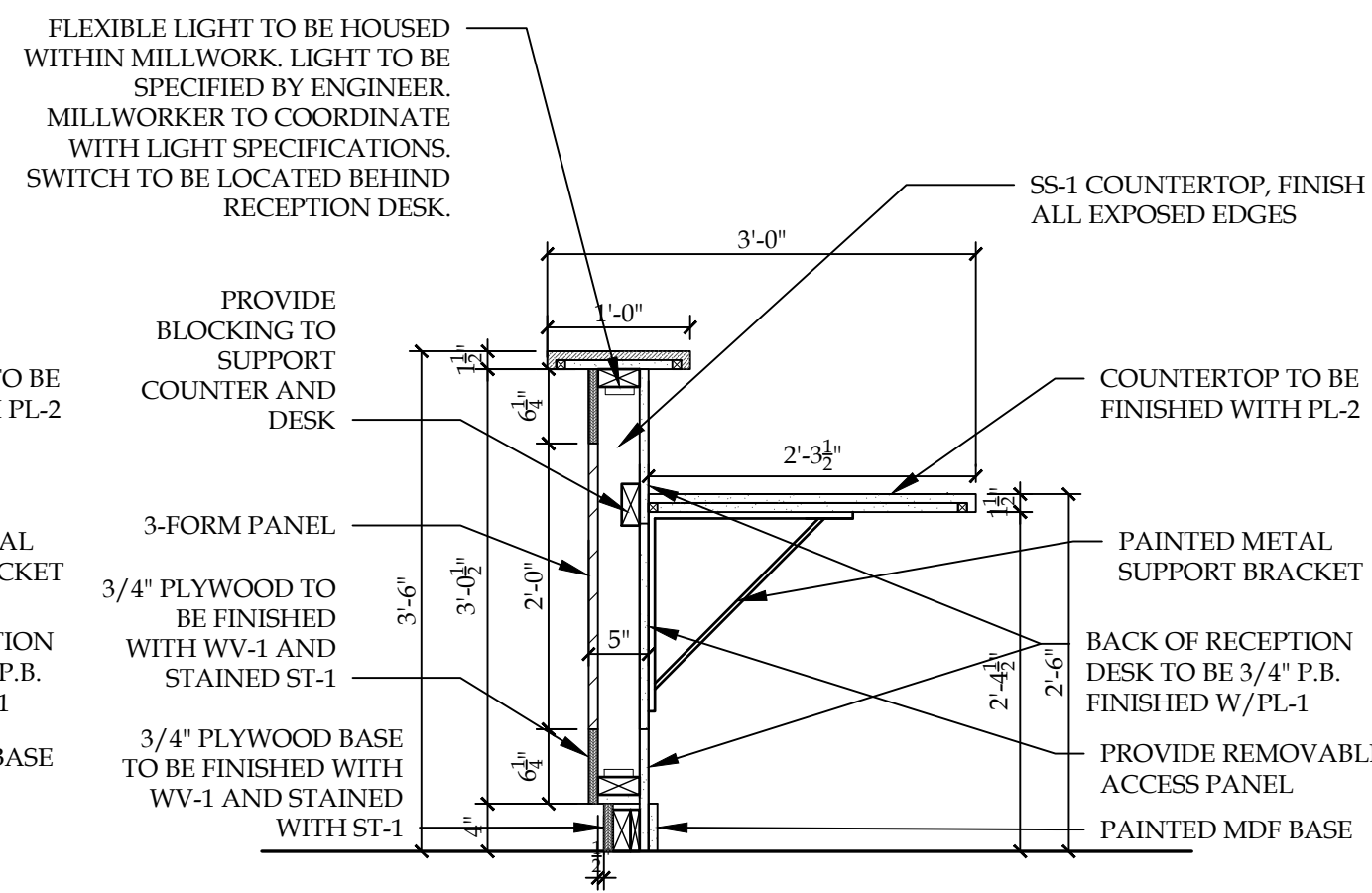
A



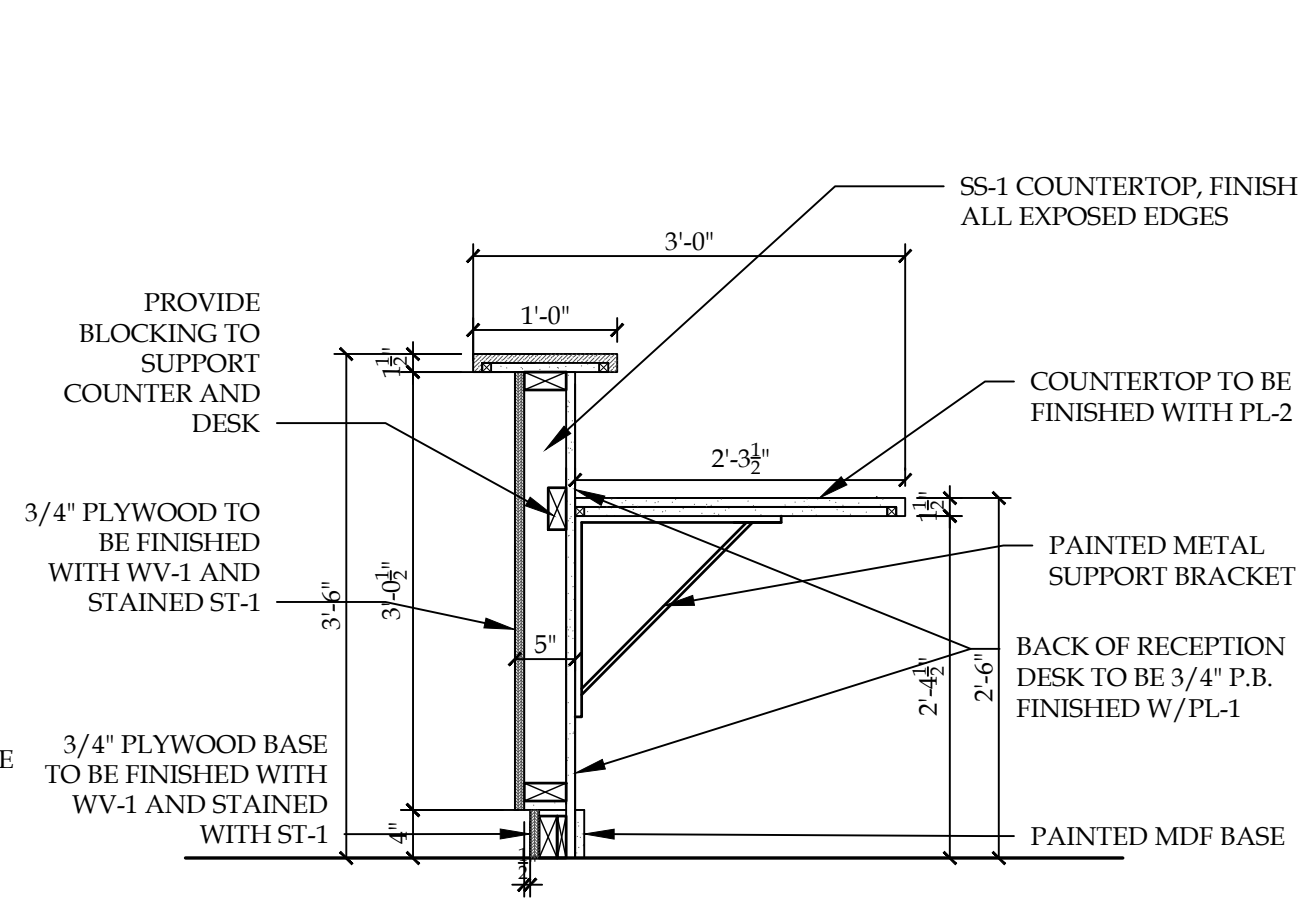
D1 SECTION - RECEPTION
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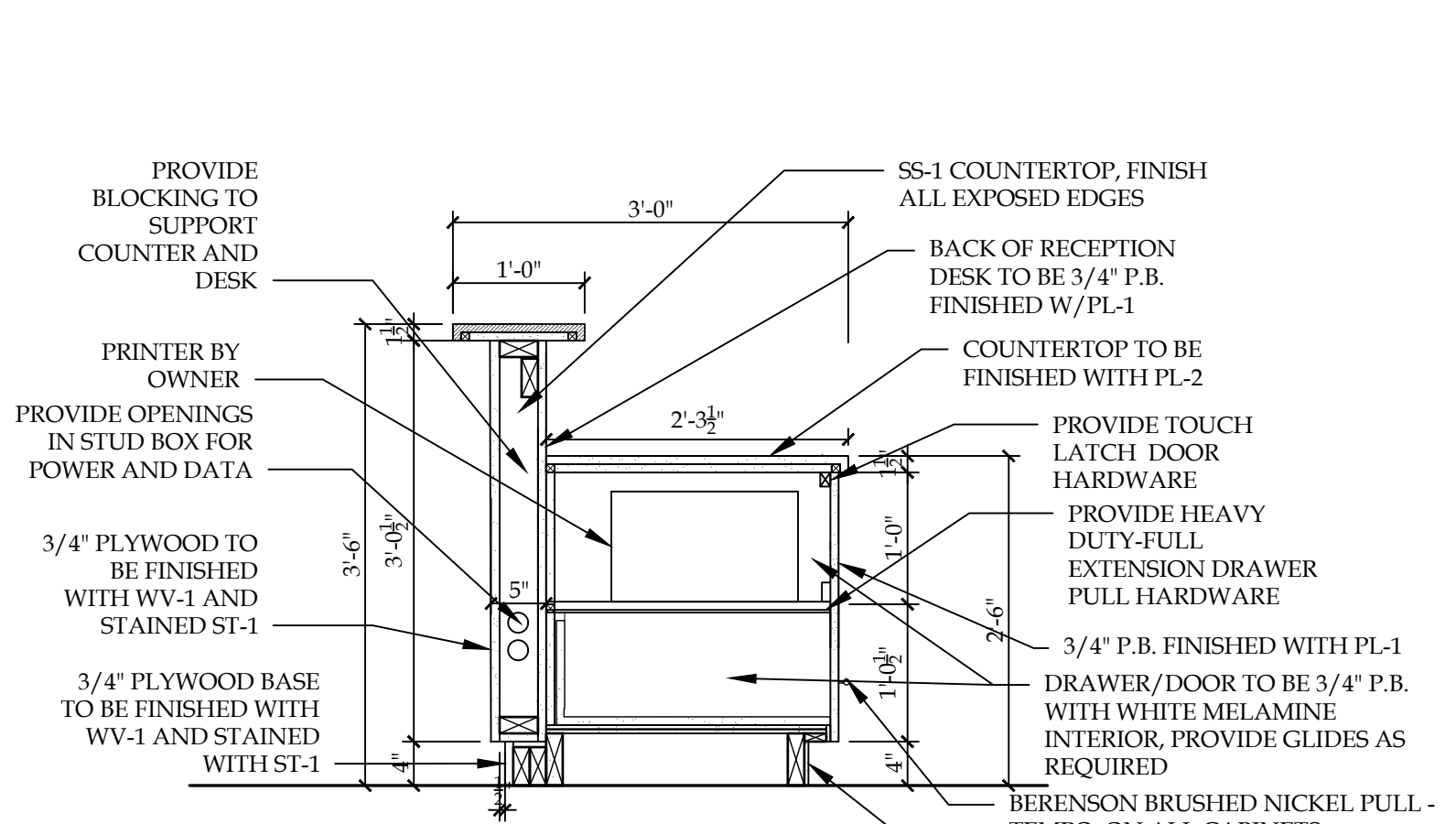
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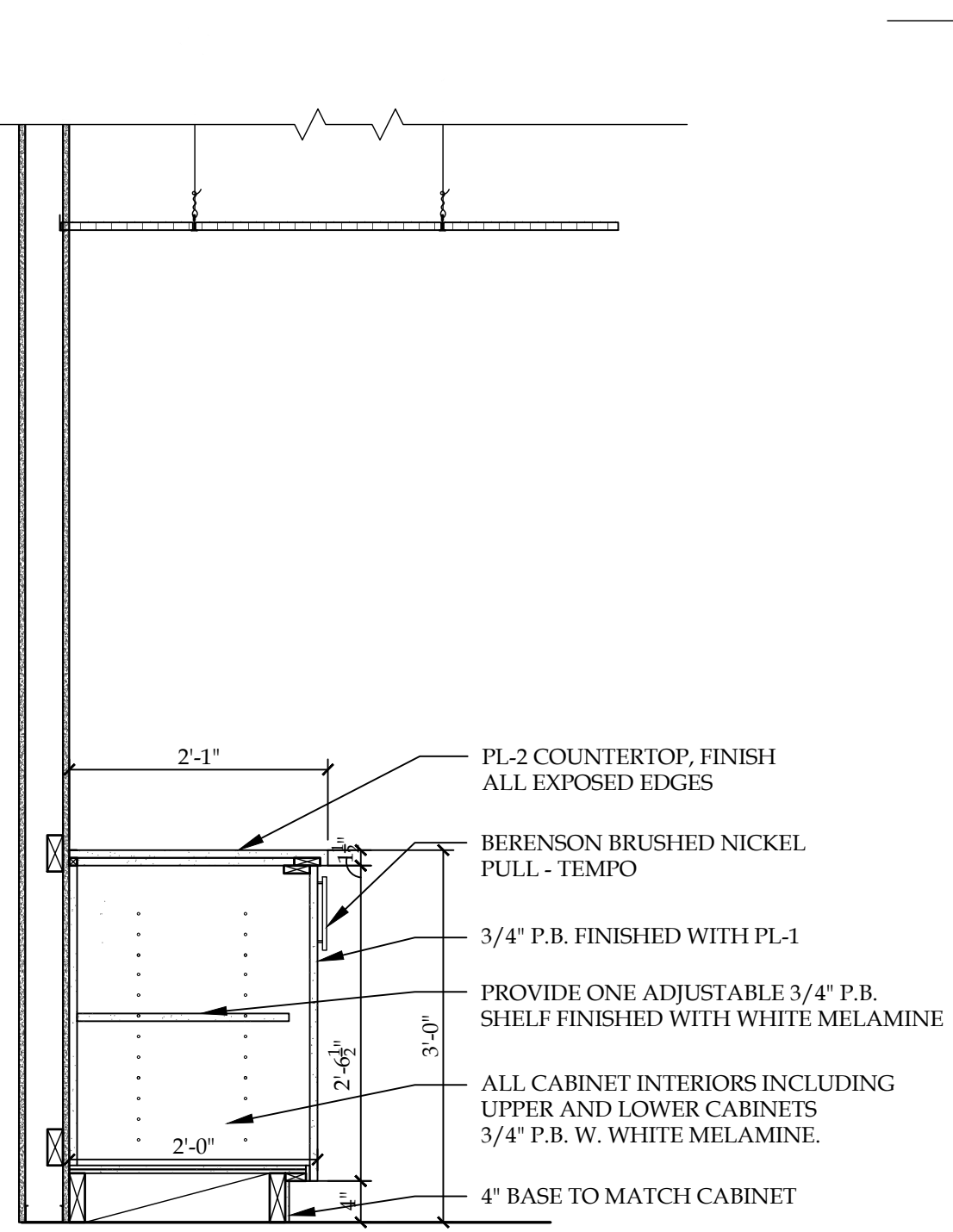
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SCALE: 3/4"=1'-0"



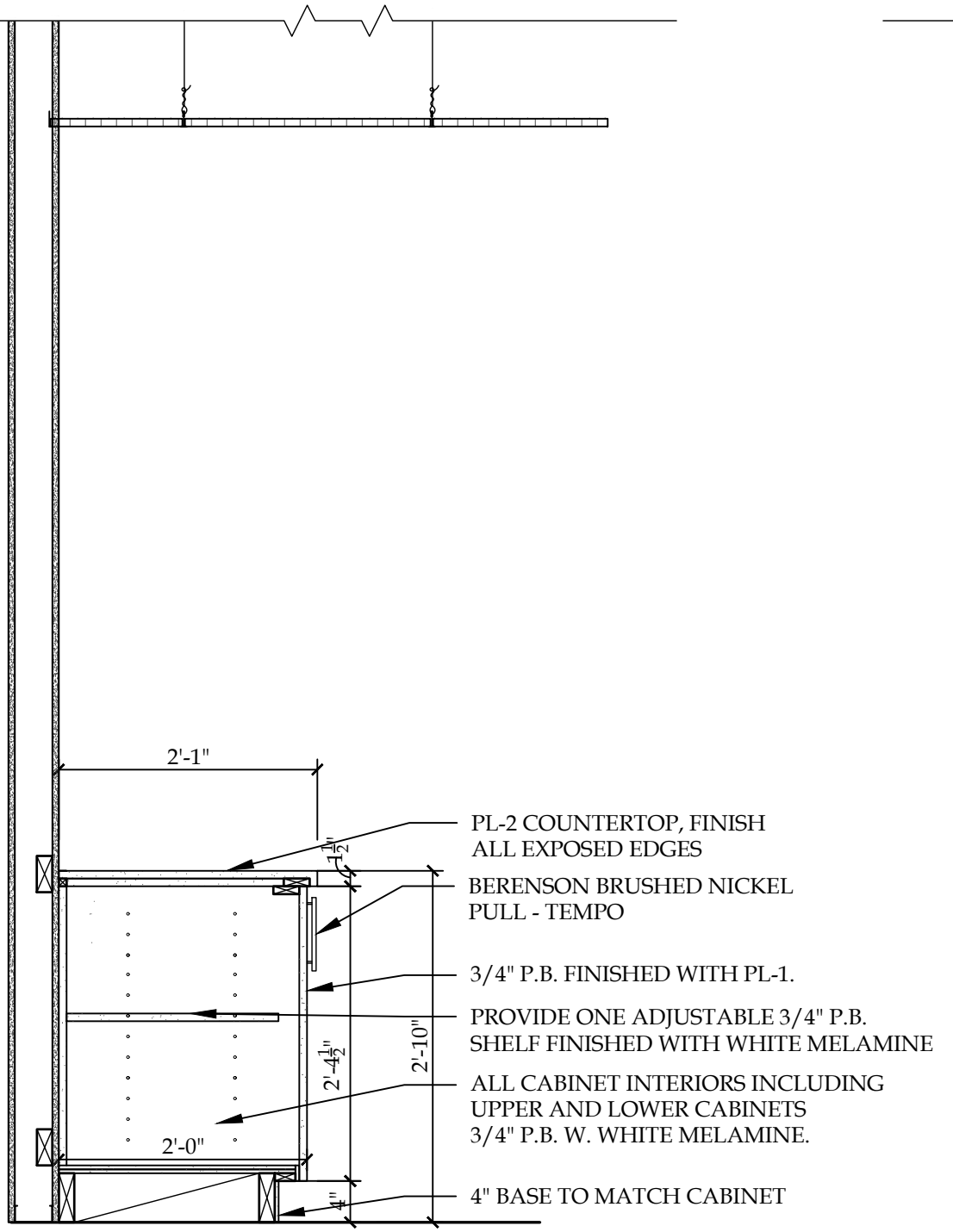
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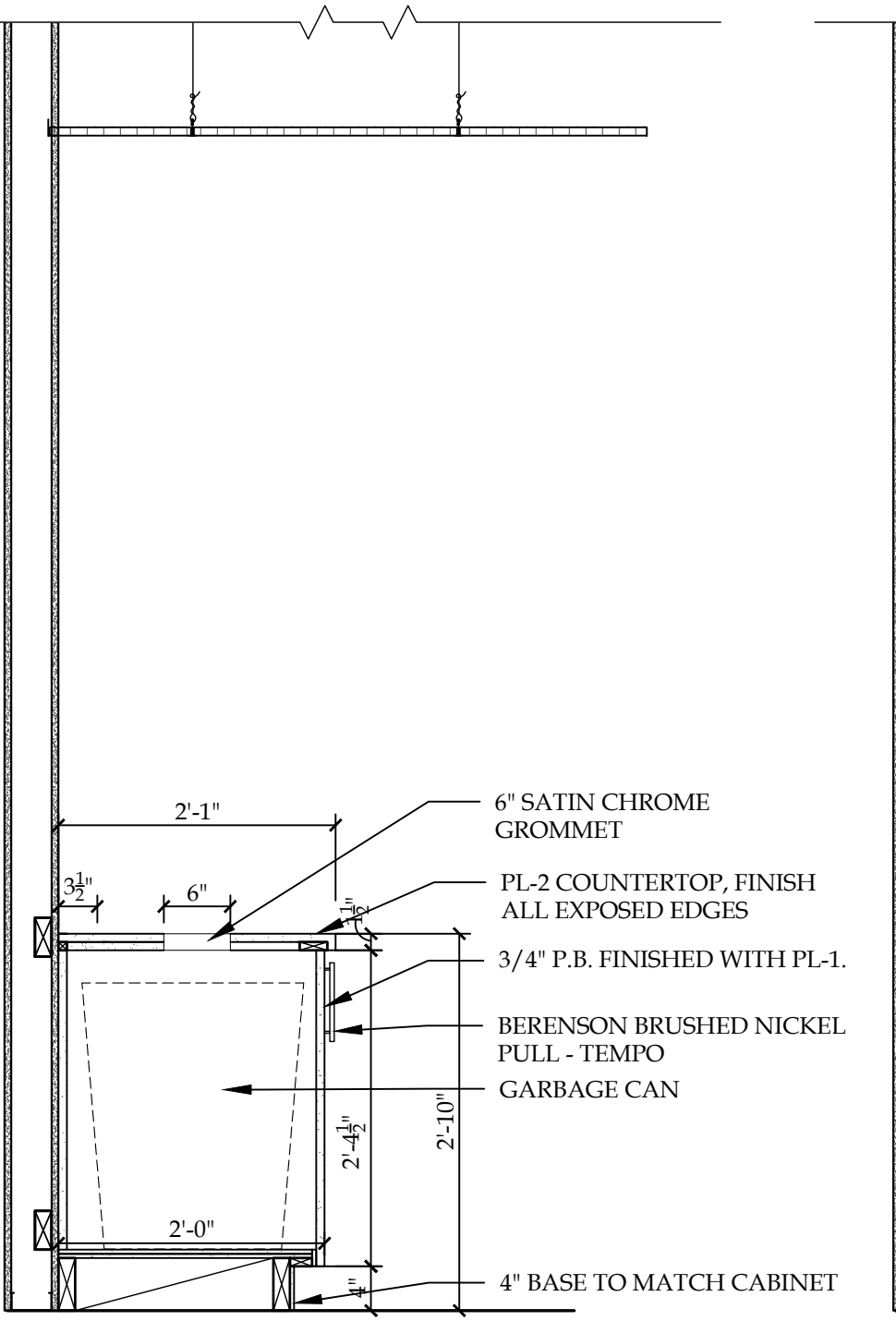
C6 SECTION - RECEPTION
SCALE: 3/4"=1'-0"



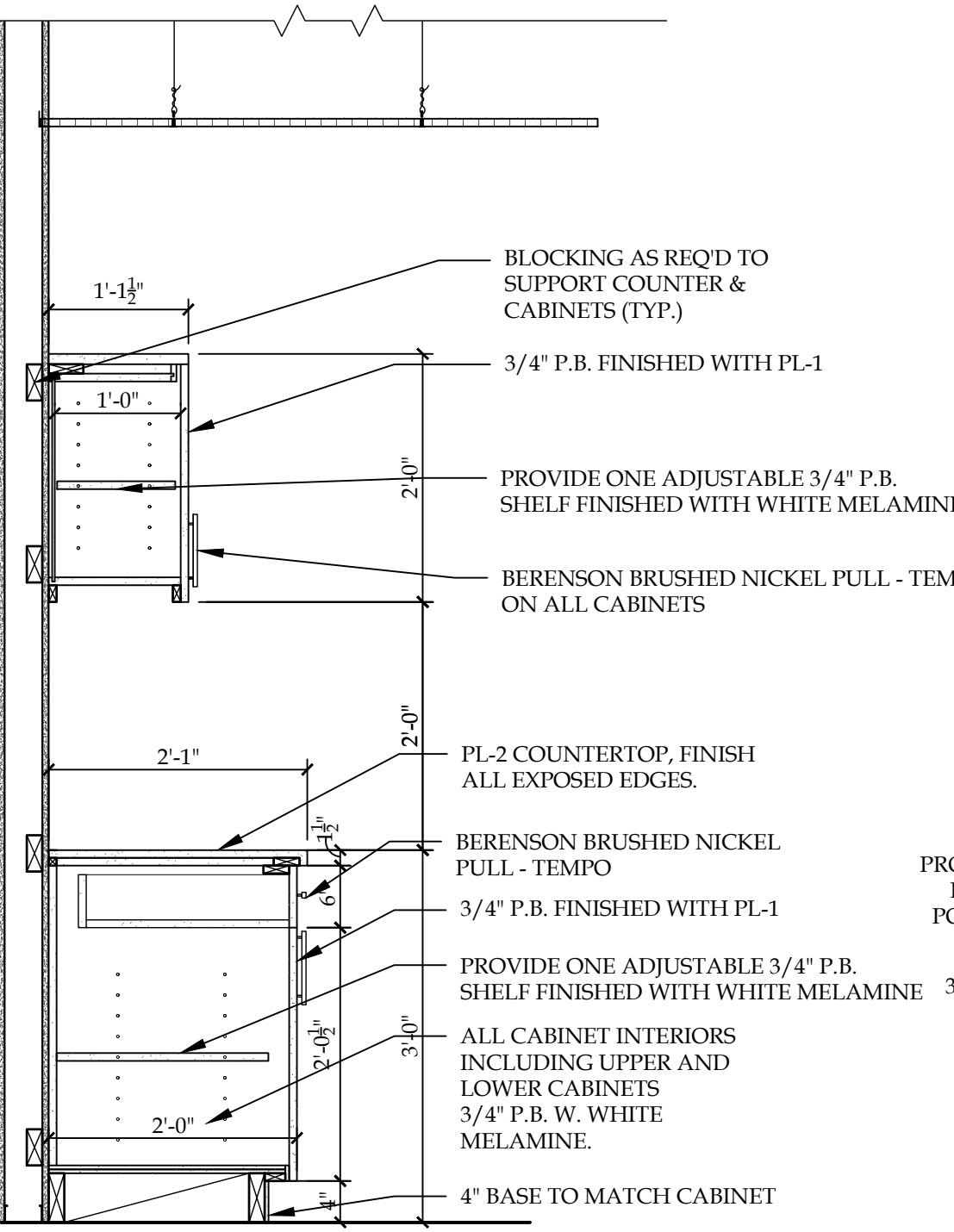
A1 SECTION - CONFERENCE ROOM
SCALE: 3/4"=1'-0"



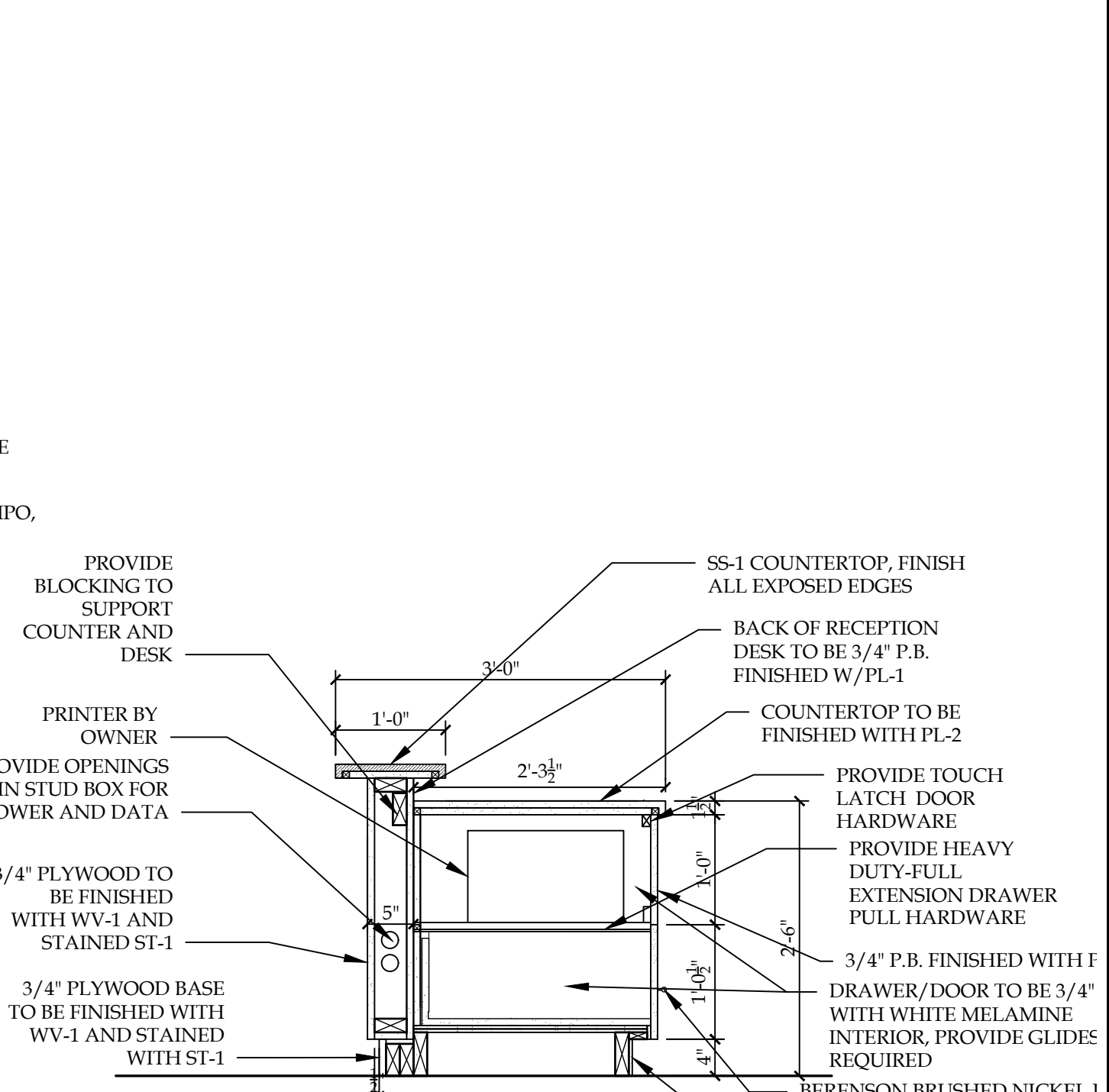
A2 SECTION - COFFEE
SCALE: 3/4"=1'-0"



A3 SECTION - COFFEE
SCALE: 3/4"=1'-0"



A4 SECTION - COPY
SCALE: 3/4"=1'-0"



A5 SECTION - RECEPTION
SCALE: 3/4"=1'-0"

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Endeavor Health Services
1526 Walden Ave. Suite #400
Cheektowaga, NY

ISSUE:
05-22-18: ISSUED FOR BID/PERMIT

SA PROJECT TEAM: PRINCIPAL P. Silvestri
PROF. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
ENLARGED PLANS & ELEVATIONS



SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: **A-501**

DOOR AND FRAME SCHEDULE

MARK	LOCATION	DOOR						FRAME				FIRE RATING LABEL	HARDWARE SET NO	NOTES
		SIZE			Type	MATL	GLAZING	TYPE	DETAIL					
		WD	HGT	THK					HEAD	JAMB				
101	CHECK-IN/OUT	3'-0"	7'-0"	1 3/4"	FG	ALUM	T	B	ALUM	H3	J3	--	1	
102	COPY	3'-0"	7'-0"	1 3/4"	F	SCWD	--	A	HM	H2	J2	--	4	POCKET DOOR
103	COPY	3'-0"	7'-0"	1 3/4"	F	SCWD	--	A	HM	H1	J1	--	3	
104	PRIVATE CHECK-IN	3'-0"	7'-0"	1 3/4"	F	SCWD	--	A	HM	H1	J1	--	3	
105	WAITING	3'-0"	7'-0"	1 3/4"	F	SCWD	--	A	HM	H1	J1	--	2	
106	WAITING	3'-0"	7'-0"	1 3/4"	F	SCWD	--	A	HM	H1	J1	--	2	

NOTE:

1. VERIFY ALL ROUGH OPENING DIMENSIONS AS REQUIRED TO MATCH DOOR SIZES SHOWN.
2. ALL DOOR HARDWARE TO BE ADA COMPLIANT LEVER STYLE LOCKS AND LATCHES.
3. SCWD = SOLID CORE WOOD DOOR
HM = HOLLOW METAL
ALUM = ALUMINUM
T = 1/4" TEMPERED GLAZING
4. NEW DOORS ARE TO BE FINISHED TO MATCH EXISTING.

HARDWARE SCHEDULE

- * PROVIDE SOLID WOOD BLOCKING AT ALL WALL STOPS
 - * ALL HARDWARE TO BE ADA COMPLIANT
- HDW-1**
EACH DOOR TO HAVE:
1- CONTINUOUS HINGE
1- PUSH BAR/PULL HANDLE SET
1- WALL STOP
1- CLOSER
1- DOOR SWEEP
1- FULL WEATHER SEAL
1- DOOR SILL
- HDW-2**
EACH DOOR TO HAVE:
3- HINGES
1- STOREROOM LOCKSET
1- ELECTRIC STRIKE
1- WALL STOP
1- CLOSER
3- DOOR SILENCERS
1- KEY FOB SYSTEM
COORDINATE W/ TENANT SECURITY VENDOR
- HDW-3**
EACH DOOR TO HAVE:
3- HINGES
1- OFFICE/ENTRY LOCKSET
1- WALL STOP
3- DOOR SILENCERS
- HDW-4**
EACH DOOR TO HAVE:
1- HEAVY DUTY POCKET DOOR KIT
1- KEYED LOCKSET
1- PULL SET

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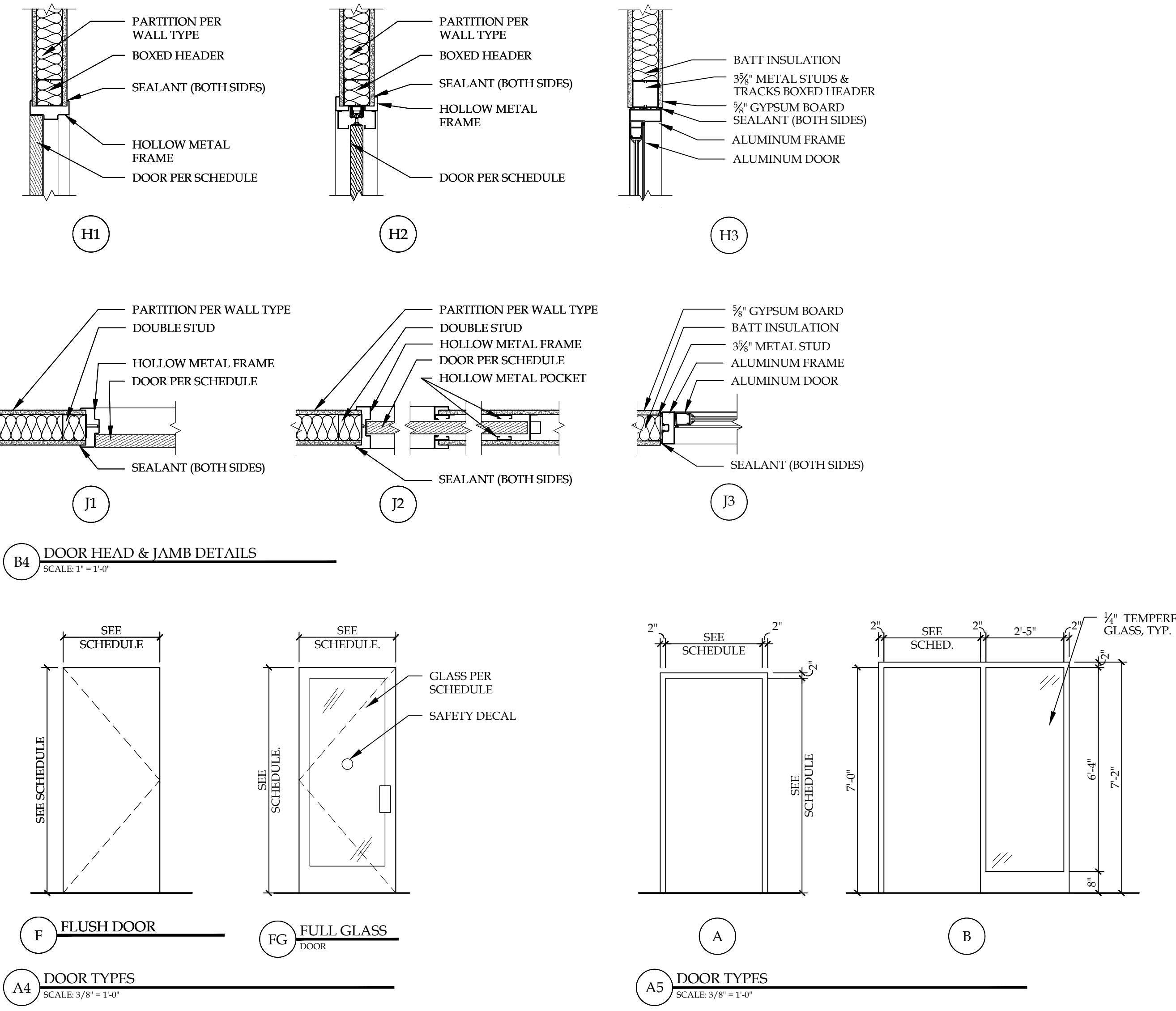
TITLE:
DOOR SCHEDULE, TYPES & DETAILS



SILVESTRI ARCHITECTS · PC
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AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 14118.01
DATE: 05-22-18

DRAWING #: **A-601**



E

D

C

B

A

FINISH SELECTIONS	
CARPET (CPT-X):	
(CPT-1)	INTERFACE
MANUFACTURER:	EVENSONG
COLLECTION:	SNOW MOON
STYLE:	NOON MOON
COLOR:	VERTICAL ASHLAR
INSTALLATION:	
(CPT-2)	INTERFACE
MANUFACTURER:	STEP REPEAT
COLLECTION:	SR699
STYLE:	GRANITE
COLOR:	VESTIBULE
LOCATION:	
LUXURY VINYL TILE (LVT-X):	
(LVT-1)	INTERFACE
MANUFACTURER:	STUDIO SET
STYLE:	MUSHROOM
SIZE:	12" X 12"
TILE (T-X):	
(T-1) (TYPICAL)	OLYMPIA TILE
MANUFACTURER:	DOBKIN TILE
DISTRIBUTOR:	OIKOS
STYLE:	GRIGIO
COLOR:	12"X24"
SIZE:	1/3 BRICK LAY
INSTALLATION:	FLEXITILE -
GROUT:	
TILE BASE (TB-X):	
(TB-1) (TYPICAL)	OLYMPIA TILE
MANUFACTURER:	DOBKIN TILE
DISTRIBUTOR:	OIKOS
STYLE:	GRIGIO
COLOR:	4"
SIZE:	TO BE USED WITH T-1
NOTE:	
RUBBER BASE (RB-X):	
(RB-1)	JOHNSONITE
MANUFACTURER:	PEBBLE 32
COLOR:	OFFICE AREAS
LOCATION:	
MEDIUM DENSITY FIBREBOARD (MDF-X):	
(MDF-1) (TYPICAL)	TBD
PROFILE:	4"
HEIGHT:	P-3
COLOR:	
PAINT (P-X):	
(P-1) (TYPICAL)	SHERWIN WILLIAMS
MANUFACTURER:	MINDFUL GRAY SW7016
NOTE:	EGGSHELL
FINISH:	
(P-2) (ACCENT)	SHERWIN WILLIAMS
MANUFACTURER:	DOVETAIL SW7018
COLOR:	EGGSHELL
FINISH:	
(P-3) (ACCENT)	SHERWIN WILLIAMS
MANUFACTURER:	GULFSTREAM SW6768
COLOR:	EGGSHELL
FINISH:	
(P-4) (TRIM)	SHERWIN WILLIAMS
MANUFACTURER:	GAUNTLET GRAY SW7019
COLOR:	SEMI-GLOSS
FINISH:	
(P-5) (CHECK IN/CHECK OUT SOFFIT)	SHERWIN WILLIAMS
MANUFACTURER:	CRUSHED ICE SW7647
COLOR:	FLAT
FINISH:	
STACKED STONE (STS-X):	
(STS-1)	CORONADO STONE
MANUFACTURER:	PROLEDGE
STYLE:	HURON
COLOR:	RECEPTION
LOCATION:	
WOOD VENEER (WV-X):	
(WV-1)	MAPLE
SPECIES:	ST-1
STAIN:	RECEPTION DESK
LOCATION:	
STAIN (ST-X):	
(ST-1)	TO MATCH SAMPLE PROV. BY ARCH
STAIN:	
PLASTIC LAMINATE (PL-X):	
(PL-1) (TYPICAL)	NEVAMAR
MANUFACTURER:	GIANT GRAY BAMBOO WX1150-PV
COLOR:	
(PL-2) (TYPICAL COUNTERTOP)	NEVAMAR
MANUFACTURER:	EISKAFFE
COLOR:	
(PL-3) (RECEPTION WORK STATION)	NEVAMAR
MANUFACTURER:	KOP1 SLSU LN6002T
COLOR:	
SOLID SURFACE (SS-X):	
(SS-1)	WILSONART
MANUFACTURER:	QUARTZ SELECT
COLLECTION:	PAPER LANTERN Q6001
FINISH:	RECEPTION DESK TRANSACTION
LOCATION:	
DOORS (WD-X):	
(WD-1)	MASONITE
MANUFACTURER:	MAPLE
SPECIES:	STOUT
FINISH:	

FINISH SELECTIONS	
ACOUSTICAL CEILING TILE (ACT-X):	
(ACT-1)	USG
MANUFACTURER:	RADAR ILLUSION TWO/24 PANELS
STYLE:	2742
STYLE #:	2 X 4'
SIZE:	SLT
EDGE:	WHITE
COLOR:	USG DONN BRAND DX/DXL 15/16"
SUSPENSION SYS:	
ROLLERSHADES (RS-X):	
(RS-1)	HUNTER DOUGLAS
MANUFACTURER:	F-SCREEN 7310
STYLE:	CHARCOAL/GRAY
COLOR:	10%
OPENNESS:	ALL EXTERIOR WINDOWS
LOCATION:	
TRANSITION (TS-X):	
(TS-1) (GENERAL)	SCHLUTER SYSTEMS
MANUFACTURER:	RENO-TK SIZE TO BE V.L.F. IN
STYLE & SIZE:	ACCORDANCE WITH MATERIAL(S)
THICKNESS:	CLEAR SATIN ANODIZED
STYLE:	ALUMINUM
LOCATION(S):	FLOORING MATERIAL CHANGES AS
NOTE(S):	NECESSARY. PLEASE SEE GENERAL NOTES RE: TRANSITIONS
MISCELLANEOUS (MISC-X):	
(MISC-1) (CHAIRRAIL)	MAPLE
SPECIES:	ST-1
STAIN:	4"
SIZE:	TO BE SELECTED BY ARCH.
PROFILE:	VERIFY W/TENANT
HEIGHT:	
(MISC-2) (3-FORM)	3FORM
MANUFACTURER:	SPIDER
STYLE:	RECEPTION DESK FEATURES
LOCATION:	

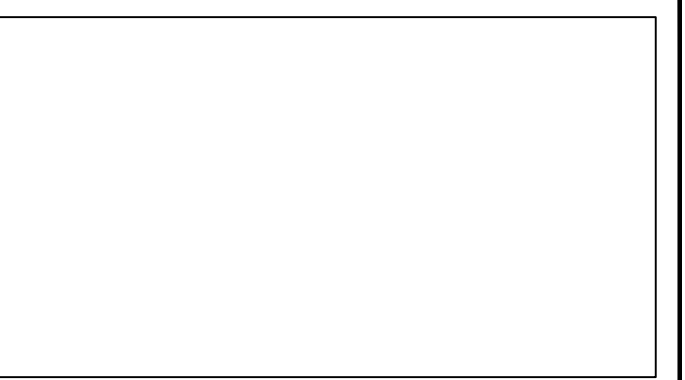
ROOM FINISH SCHEDULE - FIRST FLOOR								
ROOM NUMBER	ROOM NAME	BASE	FLOOR	WALLS	MILLWORK		CEILING HEIGHT	REMARKS
					CABINET/SHROUD	COUNTERTOP/BACKSPLASH		
101	VESTIBULE	TB-1	T-1/CPT-2	P-1			8'-10"	1
102	CHECK IN/CHECK OUT	MDF-1	LVT-1	P-1/STS-1	WV-1/PL-1	SS-1/PL-3	VARIES	1,2,4,5
103	COPY	RB-1	CPT-1	P-1	PL-1	PL-2	8'-10"	
104	WAITING	MDF-1	LVT-1/CPT-1	P-1/P-2/P-3/MISC-1	PL-1	PL-2	8'-10"	2,3,6
105	PRIVATE CHECK IN	RB-1	CPT-1	P-1/P-2			8'-10"	
106	FILE ROOM	RB-1	CPT-1	P-1			8'-10"	
107	CONFERENCE ROOM	RB-1	LVT-1	P-1/P-3/MISC-1	PL-1	PL-2	8'-10"	3

ROOM FINISH LEGEND	
FLOORS	WALLS
CPT = CARPET	P = PAINT
T = TILE	WT = WALL TILE
LUXURY VINYL TILE = LVT	STS = STACKED STONE
BASE	MISCELLANEOUS
RB = RUBBER BASE	SS = SOLID SURFACE
TB = TILE BASE	PL = PLASTIC LAMINATE
RB = RUBBER BASE	TS = TRANSITION STRIP
MDF = MEDIUM DENSITY FIBREBOARD	RS = ROLLER SHADES
CEILING	ST = STAIN
ACT = ACOUSTIC CEILING TILE	WV = WOOD VENEER
GYP = GYPSUM BOARD	MISC = MISCELLANEOUS
DOORS	MATERIALS
WD = WOOD DOOR	P.B. = PARTICLE BOARD
	GYP. = GYPSUM BOARD

REMARKS
1. REFER TO REFLECTED CEILING PLAN FOR EXACT DETAILS (MATERIALS, HEIGHTS, SIZES, ETC...) FOR CEILING LAYOUT.
2. CONTACT ARCHITECT FOR CARPET PATTERN INSTALLATION GUIDE.
3. ADD CHAIR RAIL WHERE SPECIFIED. CONFERENCE ROOM TO RECEIVE CHAIR RAIL ON ALL WALLS WITH THE EXCEPTION OF THE MILLWORK WALL.
4. CHECK IN SIDE OF DESK TO RECEIVE WOOD BASE, NOT MDF. MDF TO BE USED BEHIND DESK AND THROUGHOUT WAITING #104.
5. SOFFIT AT CHECK IN/CHECK OUT TO BE PAINTED P-5.
6. NO THRESHOLD NECESSARY AT CPT-1 INSET IN LVT-1.

GENERAL NOTES
<ul style="list-style-type: none"> ANY AND ALL FINISH SELECTIONS/ COLORS MUST BE SUBMITTED TO ARCHITECT FOR APPROVAL ACCOUNTING FOR PROPER LEAD TIME. ANY FINISH THAT IS INSTALLED WITHOUT ARCHITECTS APPROVAL MAY BE REQUIRED TO BE REMOVED AND REPLACED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER ALL MATERIALS AT THE APPROPRIATE TIME. ANY FEES INCURRED AS A RESULT OF FINISHES NOT BEING ORDERED ON TIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY DISCREPANCIES BETWEEN ARCHITECTURAL ELEVATION(S), PLAN(S), SCHEDULE(S) AND NOTES MUST BE BROUGHT TO ARCHITECTS ATTENTION. ARCHITECT MUST BE CONTACTED AND GIVE APPROVAL TO MOVE FORWARD WITH SPECIFIC DIRECTION PRIOR TO ANTICIPATED ACTION. ALL INTERIOR PRODUCTS TO MEET/EXCEED FLAME SPREAD RATING PER CODE. ALL FLOOR FINISHES TO EXTEND BENEATH ALL MILLWORK. ALL ELECTRICAL PANEL COVERS AND/OR MECHANICAL EQUIPMENT AND/OR DUCTING TO BE PAINTED TO MATCH ADJOINING WALL. ANY CEILING HVAC SUPPLY/DIFFUSERS ETC. TO BE PAINTED TO MATCH SURROUNDING CEILING FINISH. ANY QUESTIONS OR CONCERN TO BE BROUGHT TO ARCHITECTS ATTENTION FOR FINAL DECISION PRIOR TO ORDER/INSTALL BY CONTRACTOR OR OTHER.
CEILINGS:
<ul style="list-style-type: none"> ALL GYPSUM BOARD CEILINGS TO BE PAINTED IN A FLAT WHITE FINISH UNLESS SPECIFIED. ALL EXPOSED MECHANICAL DUCT COVERS SHALL BE PAINTED TO MATCH THE SURROUNDING WALL/ CEILING COLOR. PRIME AS NECESSARY
WALLS:
<ul style="list-style-type: none"> PROVIDE (1) COAT WALL PRIMER FOLLOWED BY (2) COATS WALL PAINT ON ALL INTERIOR WALL SURFACE UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SEE SPEC FOR DETAILS. WHERE DARK PAINT COLORS ARE APPLIED, USE DEEP GRAY BASE PRIMER TO PREVENT BURNISHING. CHAIR RAIL HEIGHT TO BE DECIDED BY OWNER. STAIN ST-1 WHERE SPECIFIED ON A-603.
FLOORS:
<ul style="list-style-type: none"> NO CHANGES OR SUBSTITUTIONS WILL BE MADE TO THE FOLLOWING FINISHES UNLESS DIRECTED BY THE OWNER OR ARCHITECT. CONTRACTOR TO PROVIDE (TS-1) AT ALL FLOORING MATERIAL CHANGES NEEDING THRESHOLDS. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.L.F. BASED ON MATERIAL THICKNESS. NO THRESHOLD NECESSARY AT CPT-1 INSET IN LVT-1.
MILLWORK:
<ul style="list-style-type: none"> PROVIDE CLEAR BEAD OF SILICONE OR CLEAR CALK TO SEAL BETWEEN MILLWORK PIECES (IE: COUNTER TOP AND BACKSPLASH) AND MILLWORK AND WALL. (TYPICAL). ALL COLOR SELECTION OF PLASTIC LAMINATE SUPPORTS TO MATCH ADJACENT WALL.
BASE:
<ul style="list-style-type: none"> USE MDF-1 BASE AT WAITING ROOM. PLEASE SUBMIT PROFILE OPTIONS TO ARCHITECT FOR APPROVAL.
WINDOWS:
<p>ALL GLAZING FACING EXTERIOR TO RECEIVE RS-1. ALL WINDOW SILLS TO BE PL-2.</p>
DOORS:
<ul style="list-style-type: none"> ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED WITH P-4.
OUTLETS:
<ul style="list-style-type: none"> ALL OUTLET SWITCHES AND COVERS TO BE WHITE.
SIGNAGE:
<ul style="list-style-type: none"> SIGNAGE LOCATIONS WILL NEED TO BE PROVIDED AND INSTALLED BY CONTRACTOR. TO BE SELECTED AND APPROVED BY ARCHITECT AND CLIENT PRIOR TO MANUFACTURER/PURCHASE TO BE PROVIDED BY TAKEFORM.

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 PROJ. ARCH. _____ DRAFTER _____
 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
 ROOM FINISH SCHEDULE & GENERAL NOTES

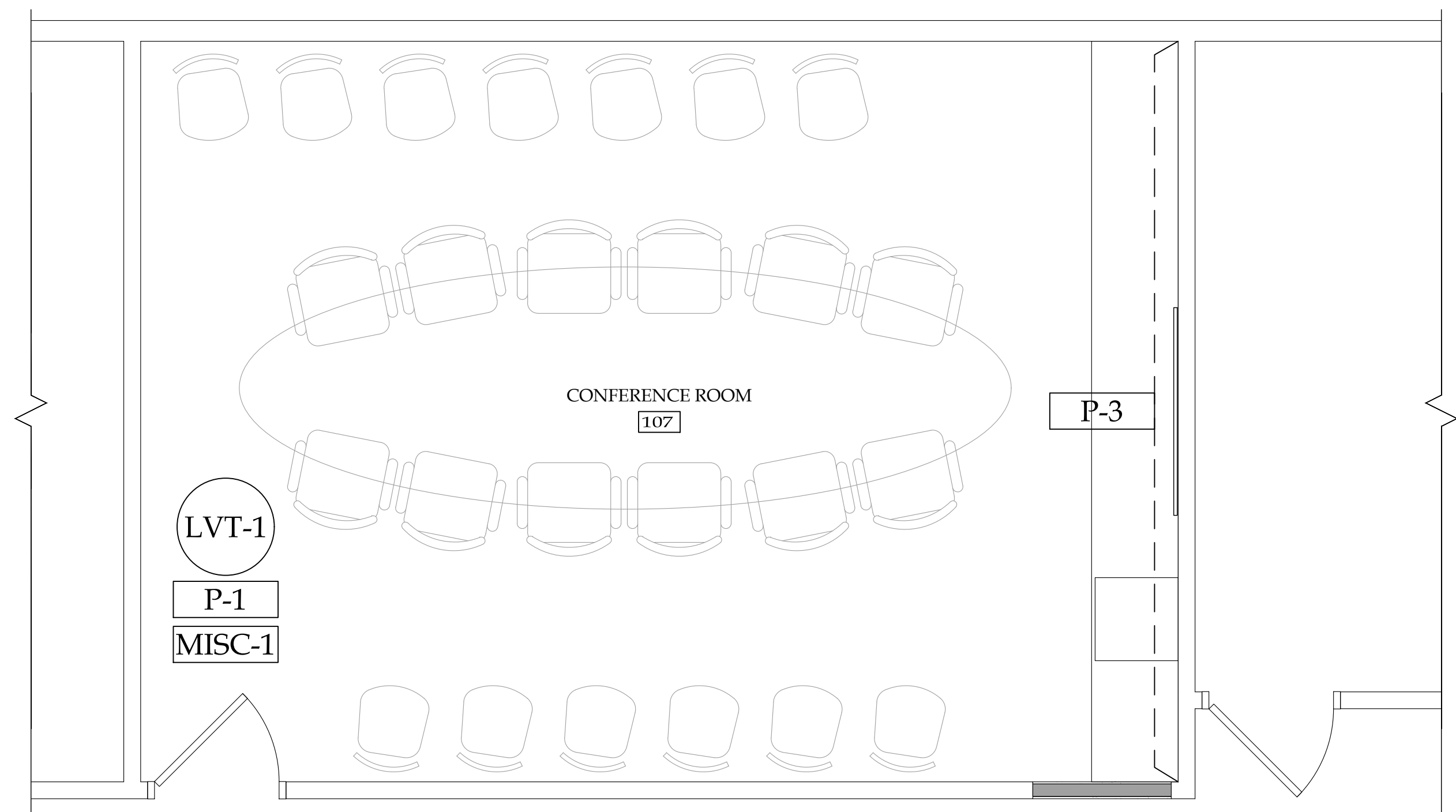


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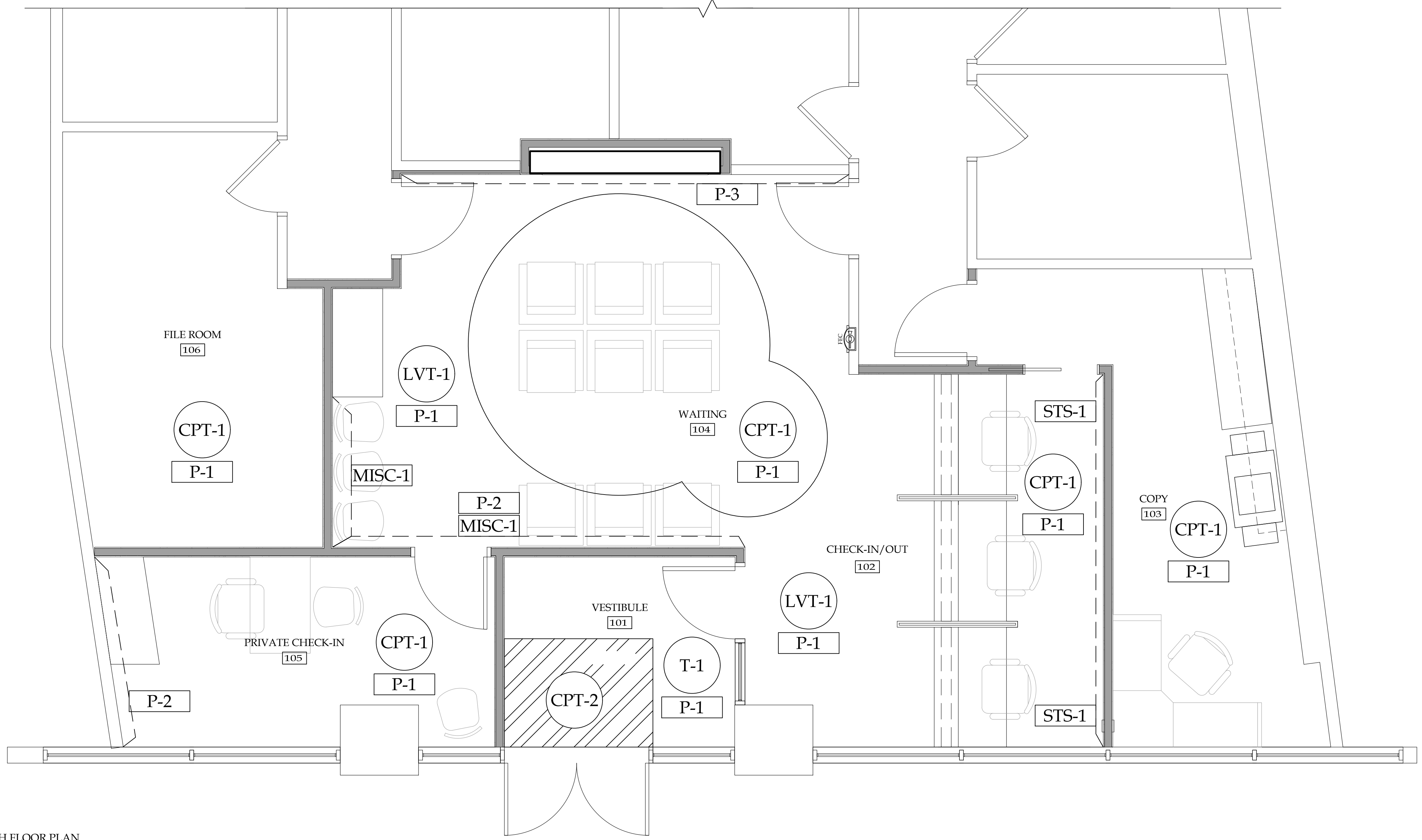
DRAWING #: A-602

1 2 3 4 5 6

E
D
C
B
A



D2 FINISH FLOOR PLAN
SCALE: 3/8"=1'-0"



A1 FINISH FLOOR PLAN
SCALE: 3/8"=1'-0"

1 2 3 4 5 6

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SEAL:

TITLE:
FINISH FLOOR PLAN

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SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: A-603

HVAC GENERAL NOTES

ARCHITECTURAL

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- LIGHT FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER AND GRILLE LOCATIONS. LOCATE DIFFUSERS AND GRILLES TO ACCOMMODATE LIGHTING LAYOUT.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION AND RATING OF ALL FIRE WALLS.

GENERAL

- THE HVAC CONTRACTOR SHALL VISIT THE JOB SITE AND BE FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR CONTRACTOR'S UNFAMILIARITY WITH PROJECT CONDITIONS.
- DUCTWORK ROUTING SHOWN IS SCHEMATIC. HVAC CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DIVIDED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ASHRAE, SMACNA, NFPA, EPA, ETC.
- PRIOR TO INSTALLATION OF ASSOCIATED WORK; INSTALLER SHALL MEET AT PROJECT SITE WITH GENERAL CONTRACTOR, INSTALLER OF EACH COMPONENT OF ASSOCIATED WORK, INSPECTION AND TESTING AGENCY REPRESENTATIVES (IF ANY), INSTALLERS OF OTHER WORK REQUIRING COORDINATION WITH WORK OF THIS SECTION AND ARCHITECT / OWNER FOR PURPOSE OF COORDINATING LOCATIONS OF PROPOSED SYSTEMS, REVIEWING MATERIAL SELECTIONS, AND PROCEDURES TO BE FOLLOWED IN PERFORMING THE WORK IN COMPLIANCE WITH REQUIREMENTS SPECIFIED.
- COORDINATE SCHEDULE FOR HOOK-UPS TO EXISTING SYSTEMS AND EQUIPMENT REMOVAL OR RELOCATIONS WITH THE OWNER AND PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
- COORDINATE INSTALLATION AND LOCATIONS OF NEW DUCTWORK AND PIPING WITH BUILDING STRUCTURE, PLUMBING PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC. PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND MATERIALS.
- VERIFY EXACT SIZES OF EXISTING DUCTWORK AND / OR PIPING IN FIELD PRIOR TO MAKING NEW CONNECTION.
- VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
- RELOCATE EXISTING DUCTWORK AND / OR PIPING IN EXISTING CEILING SPACES TO ACCOMMODATE ALL RENOVATIONS AND ADDITIONS.
- ALL PIPING AND DUCTS EXTENDING THROUGH WALLS SHALL BE SEALED WITH AN APPROVED FIRESTOPPING MATERIAL.

EQUIPMENT

- FLEXIBLE CONNECTORS SHALL BE INSTALLED ON SUPPLY AIR DUCTS AT ALL EQUIPMENT CONNECTIONS.

DUCTWORK

- RUN ALL DUCTWORK AND PIPING AS TIGHT TO BOTTOM OF STEEL AS POSSIBLE.
- DUCTWORK SHALL NOT BE SUPPORTED FROM BRIDGING, CONDUIT, PIPING, ETC. OF ANY KIND. DO NOT USE FASTENERS THAT PENETRATE ROOF DECKS.
- ASPECT RATIO SHALL NOT EXCEED 3:1.
- ALL DUCTWORK INSTALLATION SHALL RUN CONTINUOUSLY THROUGH PARTITIONS.
- LOCATE ALL DUCT BALANCING DAMPERS, CONTROL DAMPERS AND FIRE DAMPERS ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS DOORS.
- PROVIDE VOLUME CONTROL DAMPERS WITH QUADRANT AND LOCK AND STANDOFF COLLAR AT ALL BRANCH DUCTS TO DIFFUSERS. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE INSIDE, FREE AND CLEAR DIMENSIONS. INCREASE DUCT OUTSIDE DIMENSION SIZE BY TWO (2) TIME THE THICKNESS OF THE INSULATION.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL IN AREAS WITH FINISHED CEILING.
- WHERE RECTANGULAR DUCTWORK IS INDICATED, AND AT INSTALLERS OPTION, SPIRAL AND ROUND DUCTWORK MAY BE SUBSTITUTED FOR RECTANGULAR DUCTWORK PROVIDED THEY ARE EQUIVALENT TO THE RECTANGULAR DIMENSIONS INDICATED ON THE DRAWINGS (i.e.: 8x4 = 8" x 4", 10x6 = 10" x 6").
- ALL CONCEALED SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH MINIMUM 1-1/2" THICK, 0.75 LB DENSITY, FOIL-BACK INSULATION WITH VAPOR BARRIER AND A MINIMUM R-VALUE OF R-6, FLAME SPREAD RATING OF 25 OR LESS, AND SMOKE-DEVELOPED RATING OF 50 OR LESS.
- ALL RETURN AND TRANSFER AIR DUCTWORK SHALL BE INTERNALLY LINED.
- ALL DUCT LINERS SHALL BE MINIMUM 1-1/2" THICK, COATED TO PREVENT ELEMENTS FROM ENTERING THE AIRSTREAM (COATING SHALL MEET ASHRAE 62 - LATEST EDITION), AND ENVIRONMENTALLY FRIENDLY WITH A MINIMUM R-VALUE OF R-6. LINER SHALL BE BLACK IN COLOR SO IT IS NOT NOTICEABLE FROM THE INSIDE OF REGISTERS AND GRILLES.
- ALL SQUARE ELBOWS SHALL HAVE AIRFOIL TYPE TURNING VANES.
- MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS, WITH A MINIMUM R-VALUE OF R-6. SUPPORT FLEXIBLE DUCT TO ELIMINATE KINKING AND SAGGING. (FLEXIBLE DUCT NOT PERMITTED IN EXPOSED AREAS).

CONTROLS

- ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) AND NFPA 70.
- ALL CONTROL WIRING AND POWER CONDUCTOR INSULATION SHALL BE PLENUM RATED.
- ALL EXPOSED CONTROL WIRING SHALL BE INSTALLED IN 3/4" EMT CONDUIT.

HVAC CONTROL SYMBOLS

SYMBOL	DESCRIPTION
	PROGRAMMABLE, 7-DAY, 24-HOUR THERMOSTAT
	CONTROL WIRING (PLENUM RATED)

HVAC DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
	FLEXIBLE DUCT
	INTERNALLY LINED DUCTWORK
	MANUAL VOLUME DAMPERS
	POINT OF CONNECTION (NEW TO EXISTING)
	ROUND
	SUPPLY AIR DEVICE - FIRST NO. TYPE, SECOND NO. NECK SIZE, THIRD NO. CFM (REFER TO SCHEDULE FOR SIZE)
	RETURN AIR DEVICE - TYPE (REFER TO SCHEDULE FOR SIZE)

HVAC ABBREVIATIONS

CFM	CUBIC FEET PER MINUTE
DDC	DIRECT DIGITAL CONTROL
(E)	EXISTING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
OA	OUTSIDE AIR
OED	OPEN-ENDED DUCTWORK
VD	VOLUME DAMPER
W/	WITH

AIR DISTRIBUTION DEVICE SCHEDULE

SYMBOL	STYLE & DEVICE SIZE	MOUNTING	DESCRIPTION	MANUFACTURER	MODEL NO.
SUPPLY					
	SD-1	LAY-IN	LOUVERED FACE, STEEL CONSTRUCTION, OPPOSED BLADE VOLUME DAMPERS, PROVIDE 18"x18" BACKPAN (NECK SIZE AS SHOWN FOR FULL PANEL LAY-IN APPLICATION) WITH FULL FACE DIFFUSER, 4-WAY THROW, WHITE FINISH	TITUS	TDC
RETURN					
	RR-1	LAY-IN	PERFORATED FACE, STEEL CONSTRUCTION, OPPOSED BLADE VOLUME DAMPERS, PROVIDE 22"x22" BACKPAN FOR FULL PANEL LAY-IN APPLICATION, WHITE FINISH	TITUS	PAR

AIR DISTRIBUTION DEVICE NOTES:

- ALL DEVICES SHALL BE FROM A SINGLE MANUFACTURER.
- ALL DEVICES SHALL HAVE MATCHING MATTE, WHITE FINISH (UNLESS OTHERWISE NOTED IN DESCRIPTION ABOVE).
- MAXIMUM NC OF 20.
- ACCESSORIES:
 - OPERATING KEYS: TOOLS DESIGNED TO FIT THROUGH DIFFUSER FACE AND OPERATE VOLUME CONTROL DEVICE AND / OR PATTERN ADJUSTMENT
- ACCEPTABLE MANUFACTURER'S - TITUS AND PRICE.

ELECTRIC WALL HEATER SCHEDULE

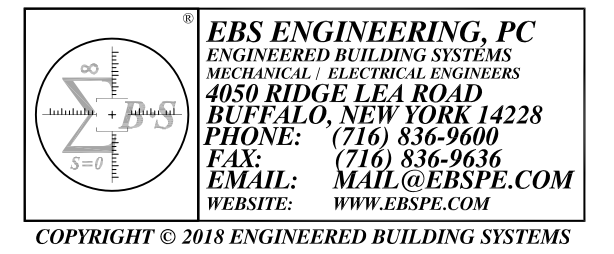
MARK	AREA SERVED	MANUFACTURER	MODEL NO.	SERIES	TYPE	MBH	WATTS	AMPS	VOLTS / PH
EWH	VESTIBULE	MARKEL	F345JT	3450 SERIES (HEAVY DUTY FAN FORCED)	SEMI-RECESSED MOUNTING	10.2	3,000	14.4	208/1/60

ELECTRIC WALL HEATER NOTES:

- ELECTRIC WALL HEATERS SHALL CONTAIN AN INTEGRAL, TAMPERPROOF THERMOSTAT.
- ELECTRIC WALL HEATERS SHALL BE EQUIPPED WITH BUILT-IN THERMAL OVERLOAD PROTECTION.
- FURNISHED AND INSTALLED BY DIVISION 23.
 - WIRING BY DIVISION 26.
- FURNISH 2" SEMI-RECESSED MOUNTING FRAME #3450EX16 FOR EACH SEMI-RECESSED MOUNTED ELECTRIC WALL HEATER.
- COLOR, INCLUDING CUSTOM COLOR, AS SELECTED BY ARCHITECT.
- ACCEPTABLE MANUFACTURERS - MARKEL, Q'MARK, INDEECO.

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PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
MECHANICAL & PLUMBING SYMBOLS, ABBREV. & DETAILS

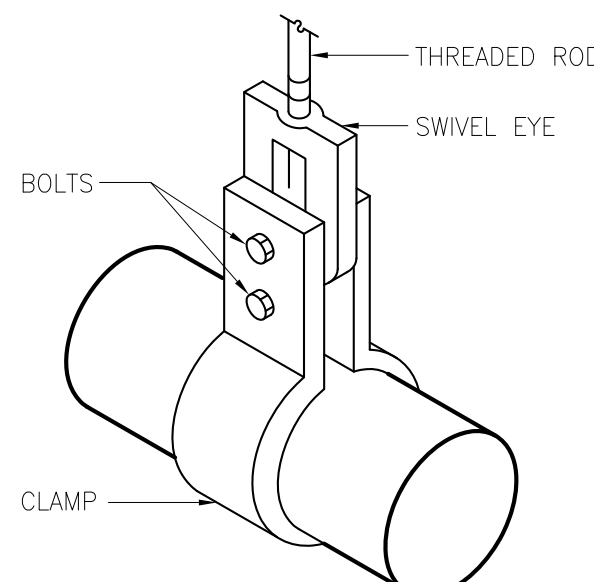
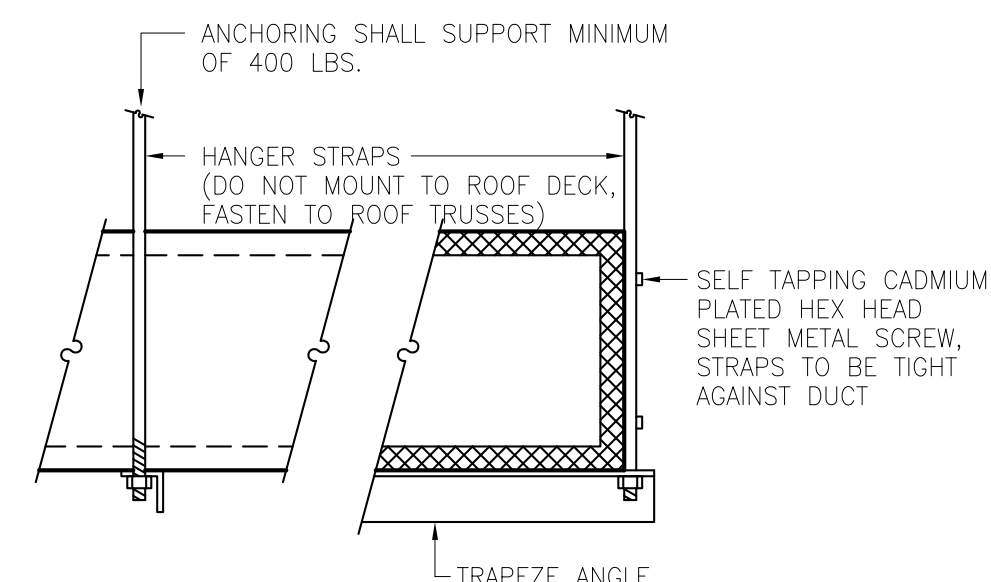


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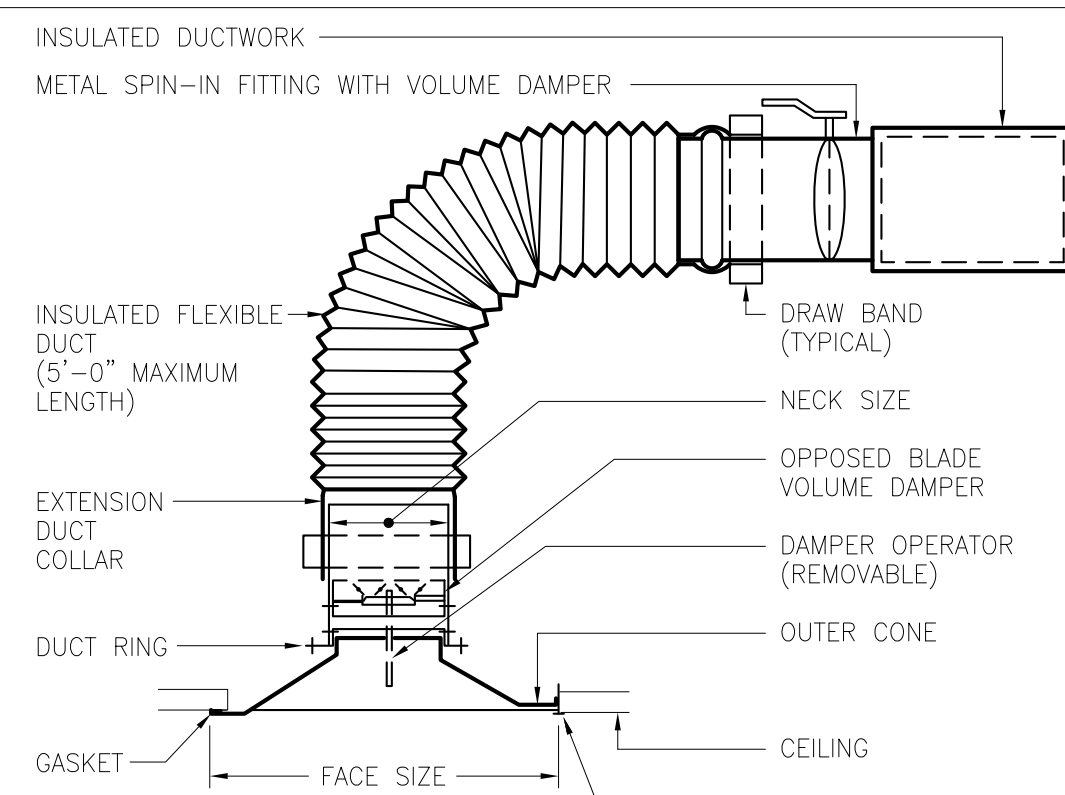
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HANGER SIZES FOR RECTANGULAR DUCT				
LONGEST DIMENSION OF DUCT	ROUND HANGERS	STRAP HANGERS	TRAPEZE SHELF ANGLES	MAXIMUM SPACING
UP THRU 18"	1/4" ROD	1" x 16 GAUGE	1" x 1" x 1/8"	10'-0"
19" THRU 30"	1/4" ROD	1" x 16 GAUGE	1" x 1" x 1/8"	10'-0"

HANGER SIZES FOR ROUND DUCT				
DUCT DIAMETER	ROUND HANGERS	STRAP HANGERS	MAXIMUM SPACING	NUMBER OF HANGERS
UP THRU 18"	1/4" ROD	1" x 16 GAUGE	10'-0"	1
19" THRU 36"	3/8" ROD	1" x 12 GAUGE	10'-0"	1

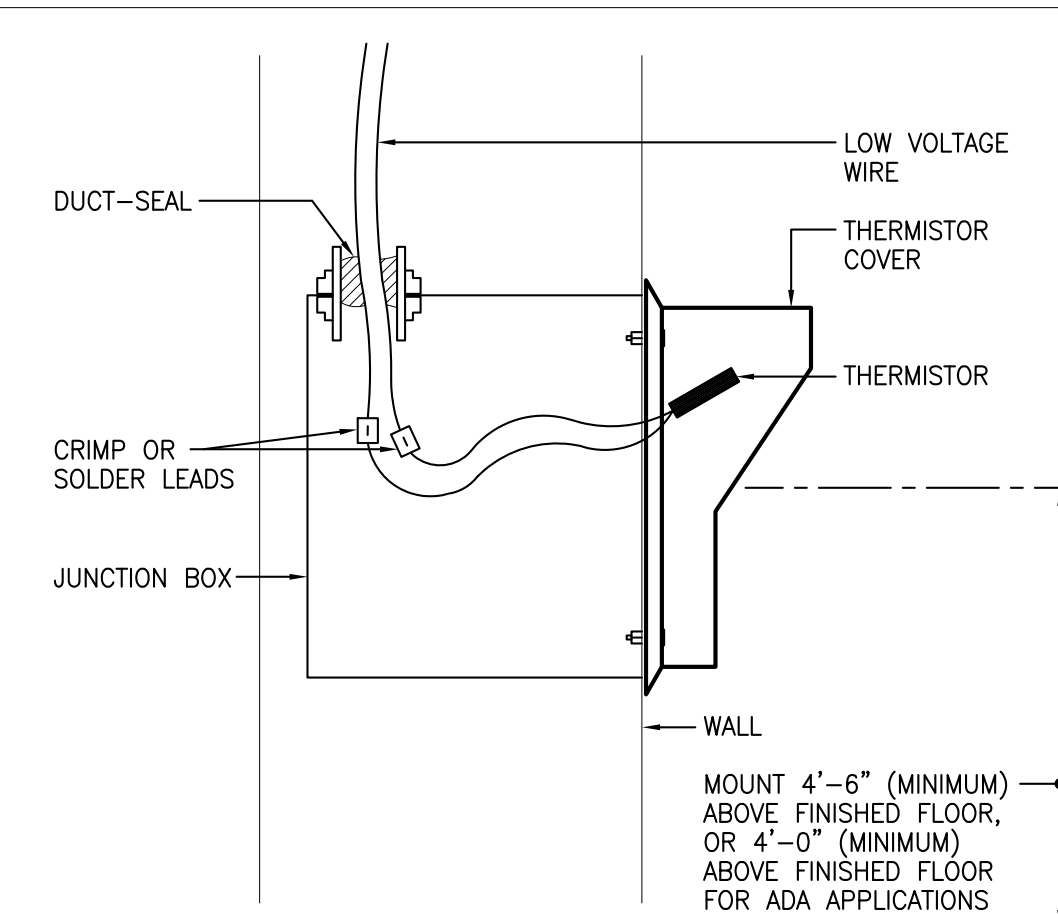
DUCT HANGER DETAIL



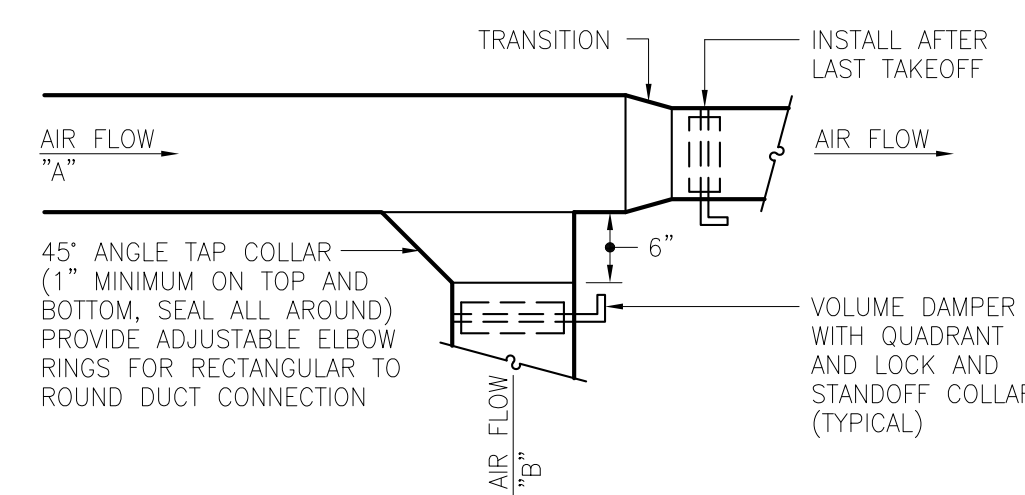
INSTALLATION NOTES:

- FASTEN DUCT RING TO EXTENSION DUCT COLLAR WITH SHEET METAL SCREWS.
- "TAP-OUT" EITHER SIDE OR BOTTOM OF DUCT; TOP "TAP-OUT" IS NOT ACCEPTABLE.

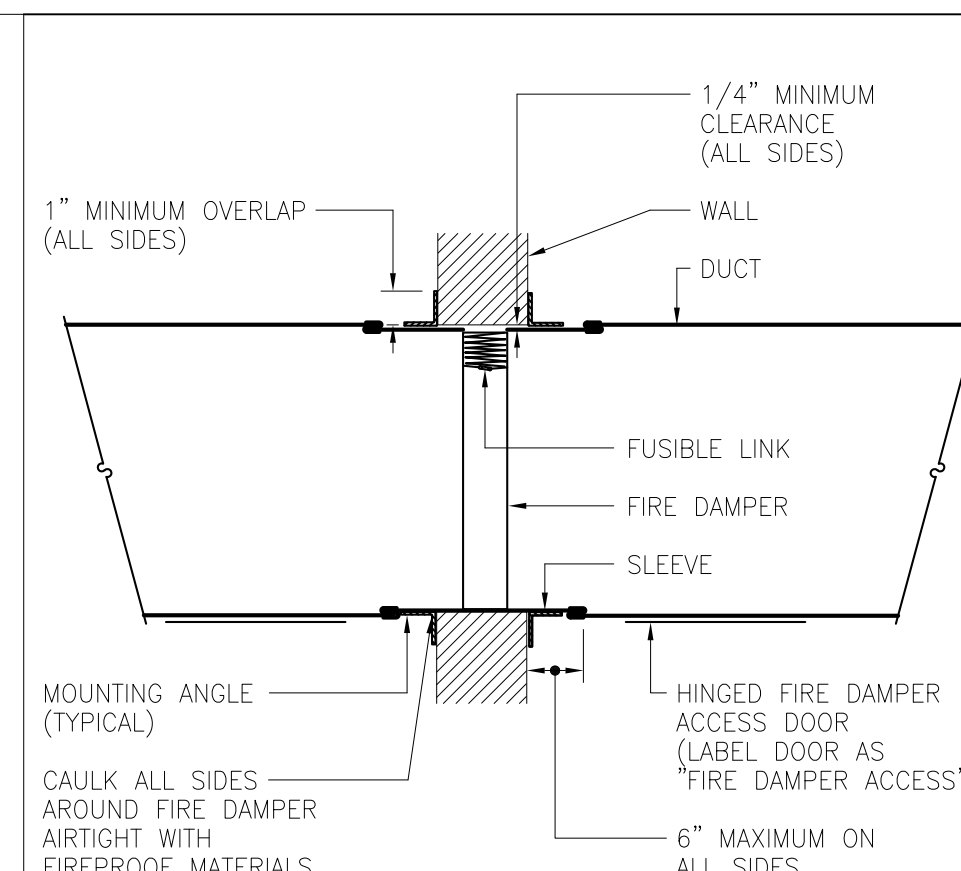
DIFFUSER INSTALLATION DETAIL



THERMOSTAT MOUNTING DETAIL



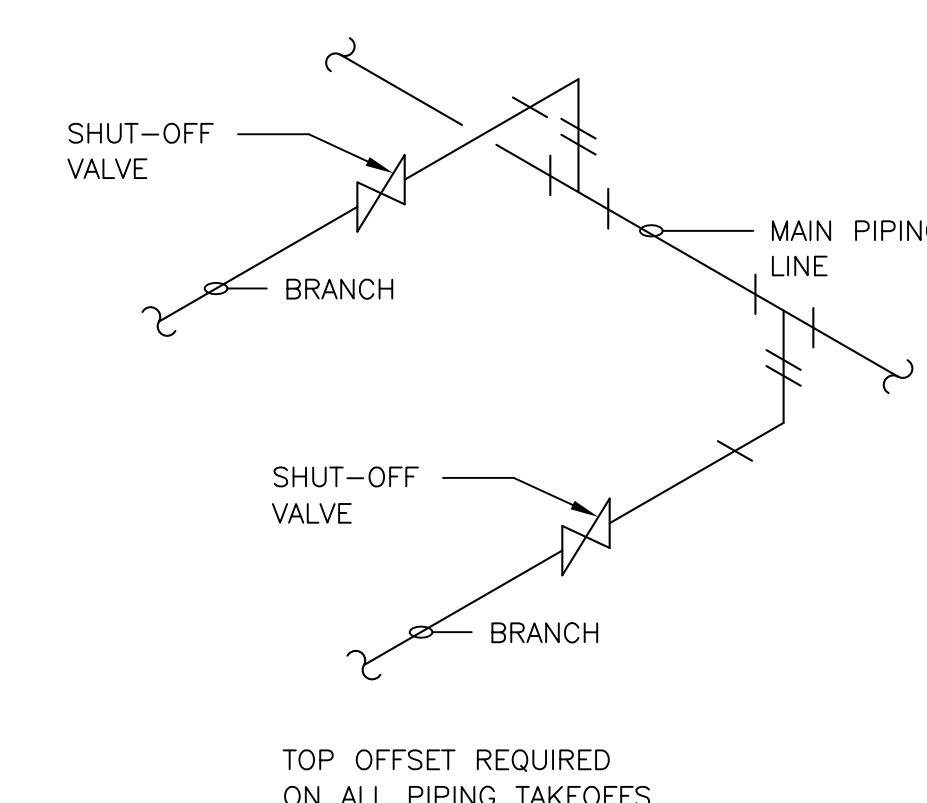
SUPPLY BRANCH TAKEOFF FITTING DETAIL



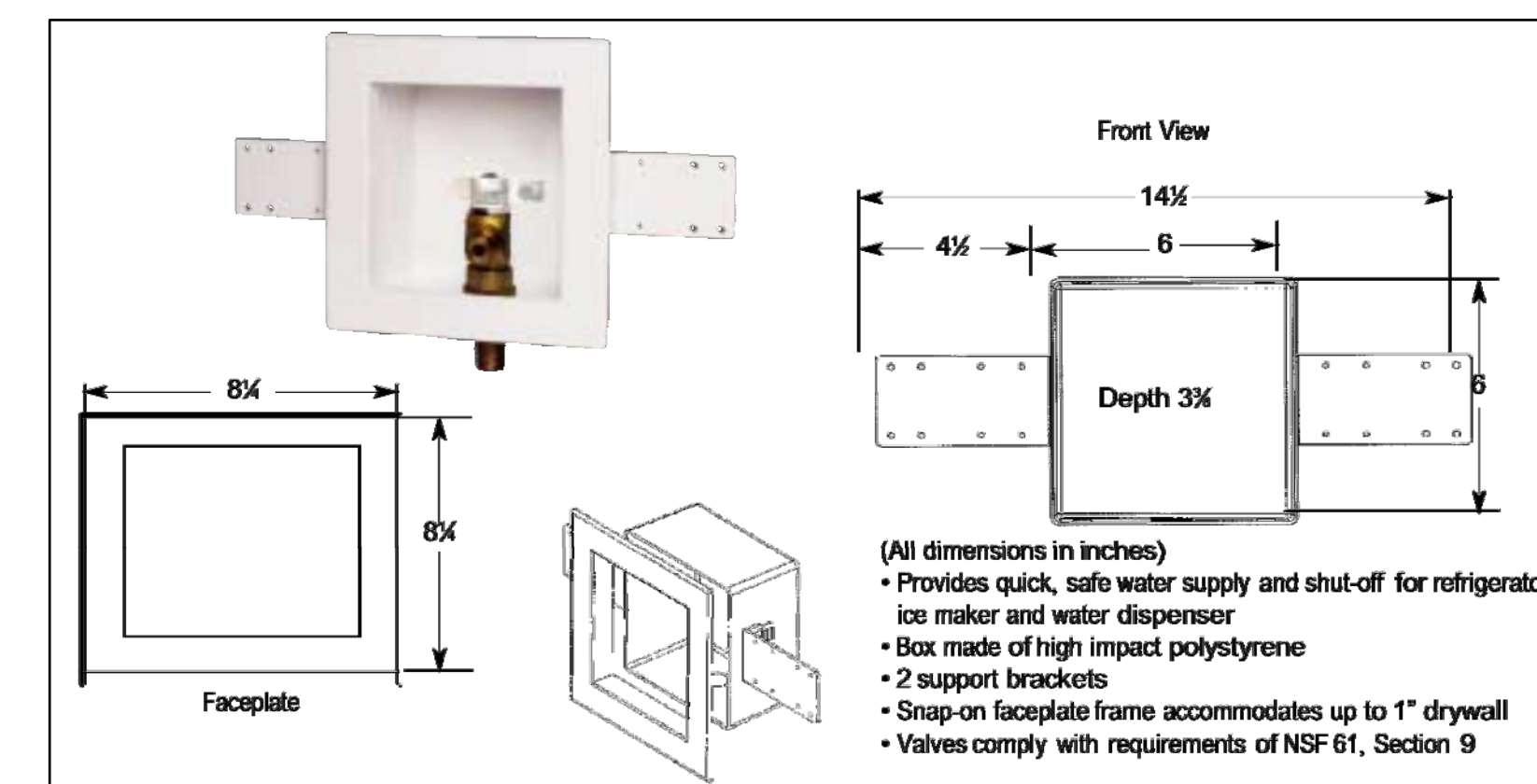
NOTES:

- OPENINGS IN WALL SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS (5/16" LARGER PER FOOT FOR STAINLESS STEEL). MINIMUM CLEARANCE OF 1/4" REQUIRED FOR ALL INSTALLATIONS.
- SLEEVE GAUGE SHALL BE AT LEAST EQUAL TO THE GAUGE OF THE DUCT AS DEFINED BY THE APPROPRIATE SMACNA DUCT CONSTRUCTION STANDARDS AND NFPA 90A, WHEN ONE OR MORE OF THE FOLLOWING DUCT SLEEVE CONNECTIONS ARE USED:
 - PLAIN "S" SLIP.
 - HEMMED "S" SLIP.
 - STANDING "S" SLIP.
 - REINFORCED STANDING "S" SLIP.
 - INSIDE SLIP JOINT.
 - DOUBLE "S" SLIP.
- IF ANY OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE MINIMUM 16-GAUGE FOR DAMPERS UP TO 36"W x 24"H AND 14-GAUGE IF WIDTH EXCEEDS 36" OR HEIGHT EXCEEDS 24".
- MOUNTING ANGLE SHALL BE MINIMUM OF 2"x14"-GAUGE AND BOLTED, TACK WELDED OR SCREWED TO SLEEVE AT MAXIMUM SPACING OF 12" AND WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE, TOP AND BOTTOM. MOUNTING ANGLES SHALL OVERLAP WALL A MINIMUM OF 1" ON ALL FOUR SIDES.
- DAMPER SHALL BE BOLTED, TACK WELDED OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES. SLEEVES SHALL NOT EXTEND MORE THAN 6" OUTSIDE OF WALL.

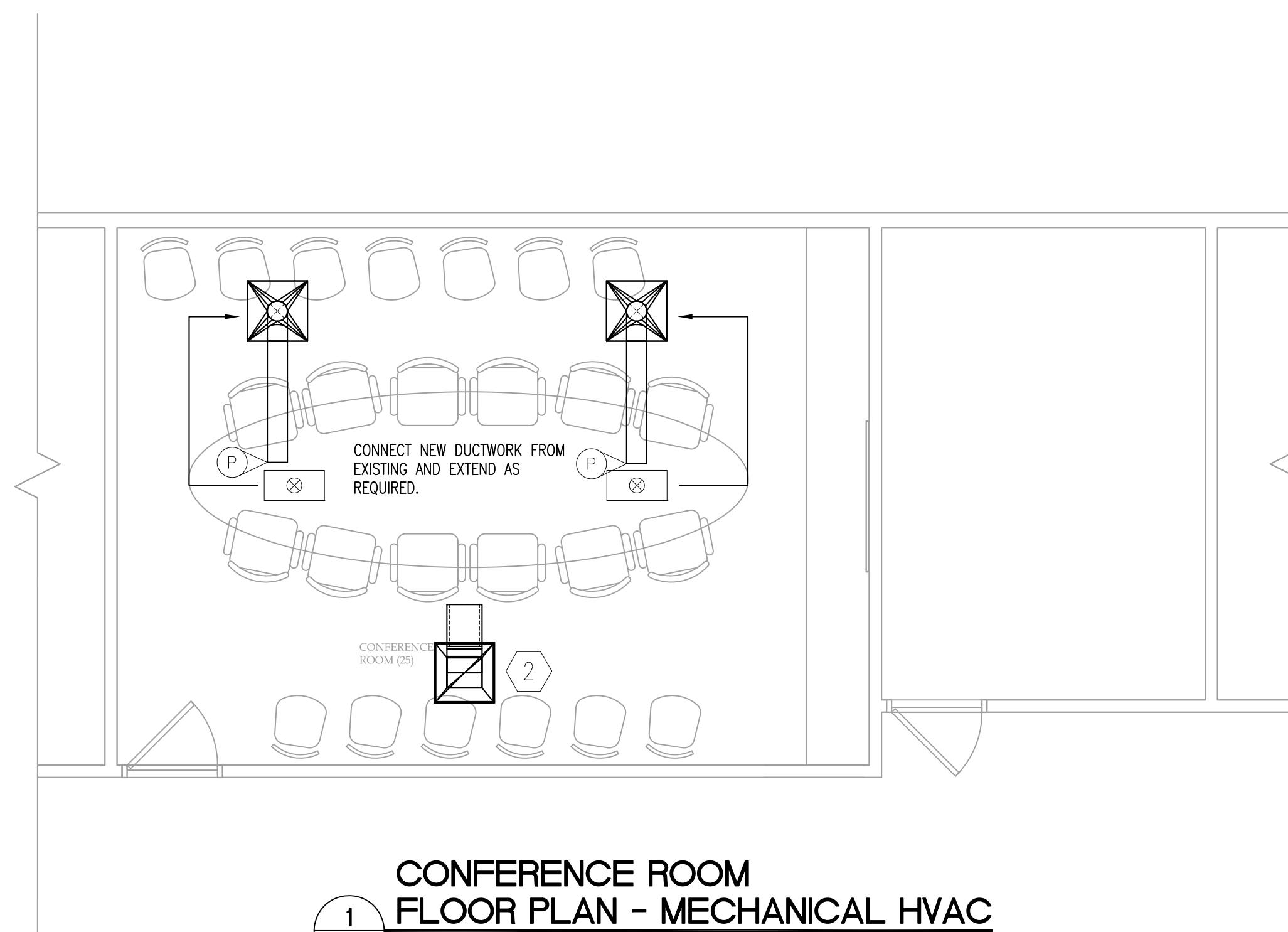
FIRE DAMPER (INSIDE DUCT) DETAIL



BRANCH PIPING TAKEOFF DETAIL



COFFEE MACHINE VALVE BOX DETAIL



1
MP-2
CONFERENCE ROOM
FLOOR PLAN - MECHANICAL HVAC
SCALE: 1/4" = 1'-0"

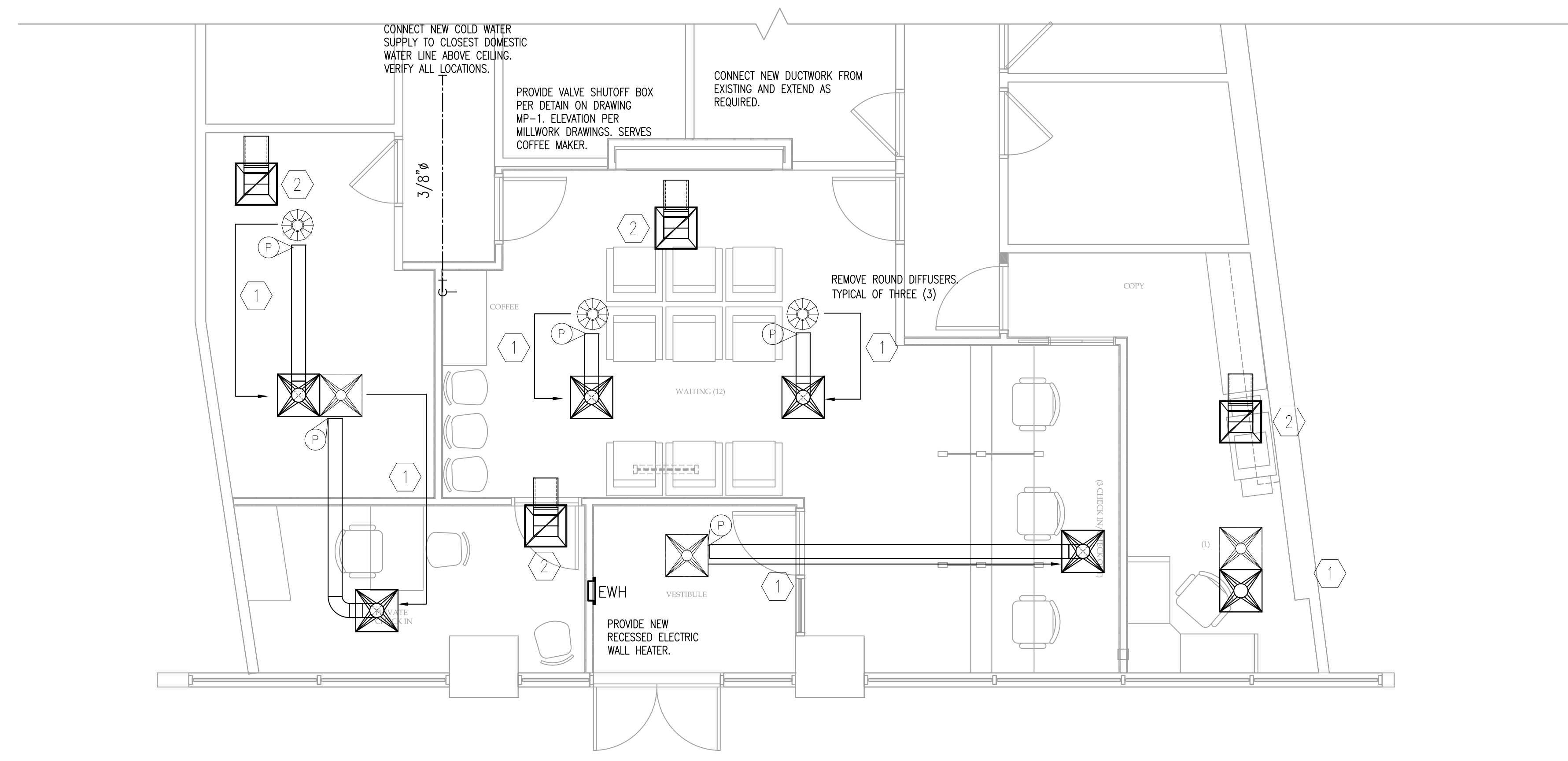
HVAC KEYED NOTES: #

1. MOVE EXISTING DIFFUSER TO NEW LOCATION SHOWN AND PROVIDE NEW DIFFUSER. EXTEND DUCTWORK AND PROVIDE NEW FLEXIBLE DUCT CONNECTION AS REQUIRED.
2. PROVIDE NEW 24"x24" RETURN AIR REGISTER.

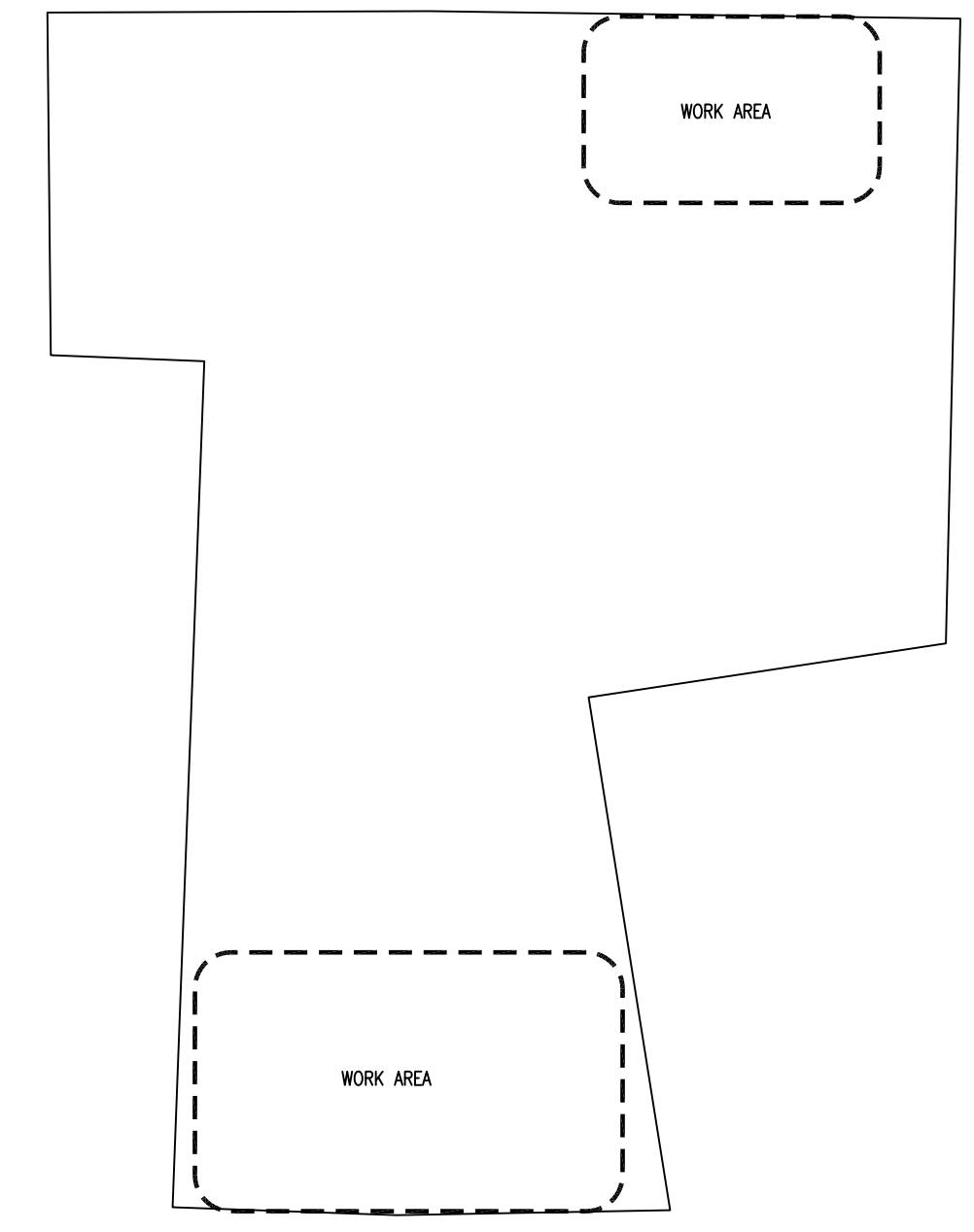
HVAC GENERAL NOTES:

- A. HVAC SYSTEM IS EXISTING WITH CONTROLS AND SHALL BE UTILIZED TO SUPPORT THE REMODEL.
- B. PRIOR TO PERFORMING ANY WORK, MEASURE AIRFLOWS AT EACH DIFFUSER SUPPLY AIR TERMINAL AND RECORD TO ASSIST WITH BALANCING TO BE COMPLETED AT THE END OF CONSTRUCTION.
- C. ALL AIR DEVICES WHICH ARE TO REMAIN SHALL BE CLEANED AND FREE FROM DAMAGE. REPLACE ALL DAMAGED AIR TERMINALS.
- D. THERMOSTATS WHICH ARE EXISTING AND TO REMAIN SHALL BE INSPECTED AND TESTED FOR FUNCTION. REPLACE ANY DAMAGED THERMOSTATS WITH SIMILAR STYLE IF REQUIRED.
- E. AIRFLOWS OF RELOCATED DIFFUSERS SHOULD MATCH EXISTING AIRFLOWS. ADJUST NECK SIZES ON NEW DIFFUSERS AS REQUIRED. 8" NECK SIZES SUGGESTED.

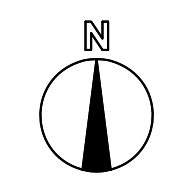
THE SUITE IS EXISTING WITH THE MAJORITY OF THE HVAC SCHEDULED TO REMAIN AND CONSISTING OF ROOFTOP UNITS AND ASSOCIATED DUCTWORK. ALL PROSPECTIVE CONTRACTORS SHOULD VISIT THE SITE PRIOR TO SUBMITTING THEIR BID AND FAMILIARIZE THEMSELVES WITH CONDITIONS.



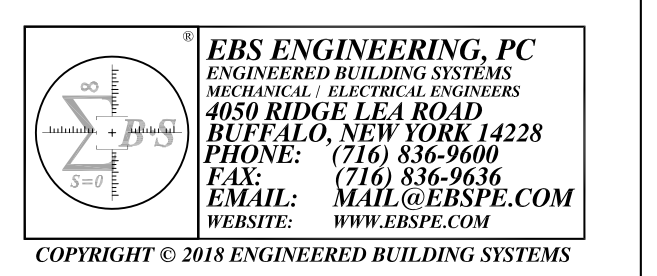
2
MP-2
FLOOR PLAN - HVAC AND PLUMBING
SCALE: 1/4" = 1'-0"



3
MP-2
KEY PLAN
SCALE: N.T.S.



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TITLE:
MECHANICAL & PLUMBING REQUIRED WORK



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SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: MP-2

HVAC SPECIFICATIONS

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

1.1 QUALITY ASSURANCE

- A. MATERIALS AND EQUIPMENT SHALL BE PROVIDED BY ONE OF THE MANUFACTURERS LISTED IN PART 2 - PRODUCTS.
1. MATERIALS AND EQUIPMENT FROM OTHER MANUFACTURERS MAY BE ACCEPTED IF PROVEN EQUAL TO THOSE SPECIFIED.
- a. EQUIPMENT SELECTION OF HIGHER ELECTRICAL CHARACTERISTICS, PHYSICAL DIMENSIONS, CAPACITIES, AND RATINGS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING MECHANICAL AND ELECTRICAL SERVICES. CIRCUIT BREAKERS, CONDUIT, MOTOR, BASES, AND EQUIPMENT SPACES ARE INCREASED.
- 1). DIVISION 15 ALSO IS LIABLE FOR ALL COSTS AND CHANGES IN THE WORK REQUIRED BY SUBSTITUTE EQUIPMENT.
- a). NO ADDITIONAL COSTS WILL BE APPROVED FOR THESE INCREASES, IF LARGER EQUIPMENT IS APPROVED.
- 2). IF MINIMUM ENERGY RATINGS OR EFFICIENCIES OF EQUIPMENT ARE SPECIFIED, EQUIPMENT MUST MEET DESIGN AND COMMISSIONING REQUIREMENTS.
2. DIVISION 15 IS LIABLE FOR AND SHALL PAY FOR, ALL ARCHITECTURAL AND ENGINEERING REVIEWS AND REDESIGN COSTS FOR SUBSTITUTE MATERIALS AND EQUIPMENT.
- B. THE LENGTH OF TIME THE MANUFACTURER HAS BEEN IN BUSINESS, THE LOCATION AND CAPABILITY OF COMPLETE REPAIR FACILITIES, AVAILABILITY OF REPAIR PARTS AND ANNUAL MAINTENANCE CONTRACTS ALL WILL BE CONSIDERED IN DETERMINING EQUALITY.
- 1.2 LAWS, PERMITS, INSPECTIONS
- A. WORK SHALL COMPLY WITH THE LATEST REVISIONS OF NEW YORK STATE BUILDING CODE, NEW YORK STATE MECHANICAL CODE, NEW YORK STATE UNIFORM FIRE PROTECTION AND CONSTRUCTION CODE.
- B. COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AS APPLICABLE.
- C. COMPLY TO REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS THAT ARE IN EXCESS OF GOVERNING CODES.
- D. DO NOT INSTALL WORK AS SPECIFIED OR SHOWN IF IN CONFLICT WITH GOVERNING CODES.
1. NOTIFY ENGINEER IN WRITING AND REQUEST DIRECTION.
- E. PROVIDE CERTIFICATE OF INSPECTION FROM ALL GOVERNING AUTHORITIES.
- F. WORK SHALL COMPLY WITH THE LATEST REVISIONS OF NEW YORK STATE BUILDING CODE, NEW YORK STATE MECHANICAL CODE, NEW YORK STATE UNIFORM FIRE PROTECTION AND CONSTRUCTION CODE, NEW YORK STATE ENERGY CONSERVATION CODE, LANDLORDS LEASING SPECIFICATION, AND ANY LOCAL CODES OR REGULATIONS THAT APPLY.
1. IN CASE OF CONFLICTS BETWEEN DRAWINGS, SPECIFICATIONS, AND INTERPRETATION OF CODES BY LOCAL AUTHORITY, LATER SHALL GOVERN.
- 1.3 INSTALLERS QUALIFICATIONS
- A. SKILLED MECHANICS WHO HAVE SUCCESSFULLY COMPLETED AN APPRENTICESHIP PROGRAM OR ANOTHER CRAFT TRAINING PROGRAM CERTIFIED BY THE U.S. DEPARTMENT OF LABOR, BUREAU OF APPRENTICESHIP AND TRAINING.
- B. DIVISION 15 SHALL BE LICENSED TO PERFORM MECHANICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.
- 1.4 OMISSIONS.
- A. OMISSIONS, DISCREPANCIES OR POINTS OF QUESTION FOUND BY A BIDDER IN THE PLANS OR SPECIFICATIONS SHALL BE REFERRED TO THE ARCHITECT, WHO WILL FORWARD TO THE ENGINEER TO MAKE ANY CLARIFICATIONS IN WRITING.
- 1.5 SHOP DRAWINGS
- A. DIVISION 15 SUBMITTALS SHALL BE DELIVERED TO THE ENGINEER IN FIVE (5) COMPLETE SETS, WITH FOUR (4) BEING RETURNED.
1. DIVISION 15 SHALL CHECK, SIGN, STAMP AND DATE ALL SUBMITTALS BEFORE SENDING THEM TO THE ENGINEER FOR REVIEW.
2. THE ENGINEER SHALL BE ALLOWED 10-WORKING DAYS FOR SUBMITTAL REVIEWS BEFORE RETURNING THEM TO THE DIVISION 15 CONTRACTOR.
- 1.6 RECORD (AS-BUILT) DRAWINGS
- A. DURING THE PROGRESS OF CONSTRUCTION, THE RECORD DRAWINGS SHALL BE CORRECTED BY DIVISION 15 TO INDICATE ACTUAL INSTALLATIONS.
- B. UPON COMPLETION OF THE PROJECT, 3-SETS OF FINAL RECORD DRAWINGS SHALL PRODUCED, WITH 1-SET EACH BEING DELIVERED TO THE OWNER, ARCHITECT AND ENGINEER.
- 1.7 PROTECTION
- A. DELIVER PIPES AND TUBES WITH FACTORY APPLIED END-CAPS.
1. MAINTAIN END-CAPS THROUGH SHIPPING, STORAGE AND HANDLING TO PREVENT PIPE-END DAMAGE AND PREVENT ENTRANCE OF DIRT, DEBRIS AND MOISTURE.
- B. CLOSE AND WATERPROOF BETWEEN OPENINGS, PIPES AND VOIDS IN WALLS TO PREVENT ENTRANCE OF WATER OR MOISTURE.
- C. PROTECT STORED PIPES AND TUBES FROM MOISTURE AND DIRT.
1. ELEVATE ABOVE GRADE.
- D. SEAL ALL DUCTWORK AND PIPING, INCLUDING OPEN-ENDED DUCTWORK, AT THE END OF EACH DAY TO PREVENT DUST, DEBRIS, ETC. FROM ENTERING THE DUCTWORK AND PIPING.
- 1.8 GUARANTEES.
- A. DIVISION 15 SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS FURNISHED UNDER THIS CONTRACT AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS SHALL BE RECTIFIED BY DIVISION 15 WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- 1.9 PUNCH LIST.
- A. DIVISION 15 SHALL SCHEDULE, THROUGH THE ARCHITECT WITH A MINIMUM OF 7-DAYS NOTICE, THE ENGINEER TO PERFORM THE FOLLOWING:
1. PRE-PUNCH LIST: VERIFICATION OF MECHANICAL ITEMS SUCH AS, BUT NOT LIMITED TO, DUCTWORK SIZES, LOCATIONS, METHODS OF ASSEMBLY / INSTALLATION, BEFORE ITEMS ARE ENCLOSED BY CEILINGS, WALLS, ETC.
- a. DIVISION 15 SHALL DELIVER TO BOTH THE ARCHITECT AND ENGINEER, A LETTER STATING THAT ALL ITEMS IN THE PRE-PUNCH LIST HAVE BEEN CORRECTED OR ADJUSTED ACCORDING TO THE GENERAL CONDITIONS OF THE CONTRACT BEFORE ANY CEILINGS, WALLS, ETC. CAN BE INSTALLED TO ENCLOSE MECHANICAL ITEMS.
2. FINAL PUNCH LIST: VERIFICATION OF MECHANICAL ITEMS SUCH AS, BUT NOT LIMITED TO, UNIT OPERATION, SENSOR LOCATIONS, COLORS SELECTED BY ARCHITECT.
- a. BEFORE PROCEEDING WITH THE FINAL PUNCH LIST, DIVISION 15 SHALL PROVIDE THE ENGINEER WITH A COMPLETE SIGNED AND SEALED BALANCE REPORT.
- 1). THE ENGINEER SHALL NOT PERFORM A FINAL PUNCH LIST UNTIL A COMPLETED BALANCE REPORT IS RECEIVED.
- b. DIVISION 15 SHALL, AT THE REQUEST OF THE ENGINEER, PROVIDE A LADDER AND ONE EMPLOYEE TO REMOVE AND REPLACE CEILING TILES, OPEN ACCESS DOORS, ETC. FOR INSPECTION OF MECHANICAL ITEMS.
- 1). THE EMPLOYEE SHALL BE MADE IMMEDIATELY AVAILABLE TO REMOVE ITEMS THAT ARE REQUESTED BY THE ENGINEER.
- 2). ANY CEILING TILE THAT IS DAMAGED SHALL BE REPLACED WITH NEW (TO MATCH EXISTING) AT DIVISION 15'S EXPENSE.
- c. DIVISION 15 SHALL DELIVER TO BOTH THE ARCHITECT AND ENGINEER, A LETTER STATING THAT ALL ITEMS IN THE FINAL PUNCH LIST HAVE BEEN CORRECTED OR ADJUSTED ACCORDING TO THE GENERAL CONDITIONS OF THE CONTRACT.

PART 2 - PRODUCTS

2.1 FIRESTOPPING

- A. PROVIDE UL LISTED AND TESTED FIRESTOPPING MATERIAL, SILICONE ELASTOMER SPECIFICALLY FORMULATED FOR USE IN HORIZONTAL AND VERTICAL APPLICATIONS.
1. THE MATERIAL SHALL POSSESS INTUMESCENT CHARACTERISTICS, AND UPON EXPOSURE TO HEAT ABOVE 250° F, SHALL EXPAND TO NOT LESS THAN FIVE TIMES ITS ORIGINAL VOLUME TO FORM A FIREPROOF ENVELOPE UL RATED FOR 2 AND 3-HOURS PROTECTION, WHEN APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- B. UNUSED SLOTS AND OTHER PENETRATIONS IN WALLS OR OTHER GENERAL CONSTRUCTION SHALL BE CLOSED AND SEALED WITH AN APPROVED FIRESTOPPING MATERIAL.
1. OPENINGS IN WALLS SHALL BE CLOSED WITH 16 GAGE GALVANIZED STEEL SHEET SECURELY ATTACHED AT THE MIDPOINT OF THE WALL THICKNESS AND FIRESTOPPED ON BOTH SIDES OF THE STEEL SHEET WITH NOT LESS THAN 1/8-INCH THICK LAYER OF NON-SAGGING SILICONE ELASTOMER TO FULLY COVER THE OPENING.
2. SINGLE OR MULTIPLE PIPES PASSING THROUGH WALLS SHALL HAVE THE ANNULAR SPACE BETWEEN PIPES AND STRUCTURE FILLED WITH SILICONE ELASTOMER TO PROVIDE A MINIMUM 2-HOUR RATED FIRESTOP FOR WALLS.
- C. PIPES AND DUCTS: THE ANNULUS BETWEEN PIPING AND DUCTWORK AND WALLS IN FINISHED SPACES SHALL BE FILLED, SEALED, AND PAINTED TO MATCH ADJACENT SURFACES.
- 2.2 DUCTWORK ACCESSORIES
- A. VOLUME DAMPERS.
1. LOW LEAKAGE VOLUME DAMPERS: MULTIPLE OR SINGLE-BLADE, OPPOSED BLADE DESIGN, LOW LEAKAGE RATING, LINKAGE OUTSIDE OF AIRSTREAM, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.
- a. STEEL FRAMES: HAT-SHAPED, GALVANIZED SHEET STEEL CHANNELS, MINIMUM OF 0.064" THICK, WITH MITERED AND WELDED CORNERS; FRAMES WITH FLANGES FOR ATTACHING TO WALLS, FLANGELESS FRAMES FOR INSTALLATION IN DUCTS.
- b. ROLL-FORMED STEEL BLADES: 0.064" THICK, GALVANIZED SHEET STEEL.
- c. BLADE AXLES: 1/2", GALVANIZED STEEL.
- d. BEARINGS: TWO-PIECE MOLDED SYNTHETIC THRUST OR BALL.
- e. BLADE SEALS: FELT OR NEOPRENE.
- f. JAMB SEALS: CAMBERED STAINLESS STEEL.
- g. TIE BARS AND BRACKETS: GALVANIZED STEEL.
- h. FINISH: MILL.
2. JACK-SHAFT: 1" DIAMETER, GALVANIZED STEEL PIPE ROTATING WITHIN PIPE-BEARING ASSEMBLY MOUNTED ON SUPPORTS AT EACH MULLION AND AT EACH END OF MULTIPLE DAMPER ASSEMBLIES.
3. DAMPER HARDWARE: ZINC-PLATED, DIE-CAST CORE WITH DIAL AND HANDLE MADE OF 3/32" THICK ZINC-PLATED STEEL, AND A 3/4" HEXAGON LOCKING NUT.
- a. INCLUDE CENTER HOLE TO SUIT DAMPER OPERATING-ROD SIZE. INCLUDE ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
4. DUCT ACCESSORY HARDWARE.
- a. QUADRANT LOCKS: PROVIDE FOR EACH VOLUME DAMPER, QUADRANT LOCK DEVICE ON ONE END OF SHAFT; AND END BEARING PLATE ON OTHER END FOR DAMPER LENGTHS OVER 12".
- 1). PROVIDE EXTENDED QUADRANT LOCKS FOR EXTERNALLY INSULATED DUCTWORK.
- 2). MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE QUADRANT LOCKS OF ONE OF THE FOLLOWING:
- a). VENT FABRICS, INC.
- b). YOUNG REGULATOR COMPANY.
5. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE VOLUME DAMPERS OF ONE OF THE FOLLOWING:
- a. AIR BALANCE, INC.
- b. MCGILL AIRFLOW CORPORATION.
- c. RUSKIN COMPANY.
- 2.3 DIFFUSERS, REGISTERS AND GRILLES
- A. CEILING COMPATIBILITY: PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO CEILING MODULE AND WITH ACCURATE FIT AND ADEQUATE SUPPORT.
- B. PERFORMANCE: PROVIDE CEILING DIFFUSERS THAT HAVE, AS MINIMUM, TEMPERATURE AND VELOCITY TRAVERSES, THROW AND DROP, AND NOISE CRITERIA RATINGS FOR EACH SIZE DEVICE AS LISTED IN MANUFACTURERS CURRENT DATA.
1. NOISE LEVELS OF NC 20 OR LESS.
- C. CEILING SUPPLY DIFFUSERS.
1. LOUVERED FACE DIFFUSER.
- a. MATERIAL: STEEL.
- b. FINISH: BAKED ENAMEL, WHITE.
- c. FACE SIZE: 24"x24".
- d. FACE STYLE: PROVIDE 18"x18" BACKPAN (NECK SIZE AS SHOWN ON DRAWINGS FOR FULL PANEL APPLICATION) WITH FULL FACE DIFFUSER, EASILY REMOVABLE CORE OF CONCENTRIC LOUVERS (FLUSH WITH FACE), SQUARE OR ROUND DUCT CONNECTION.
- 1). MINIMUM 22-GAUGE STEEL BACKPAN (WELDED-IN INLETS AND CORNER JOINTS ARE NOT ACCEPTABLE).
- d. MOUNTING: T-BAR (LAY-IN).
- e. PATTERN (THROW): 4-WAY, FIXED, HORIZONTAL DISCHARGE.
- f. DAMPERS: ADJUSTABLE, OPPOSED-BLADE, KEY OPERATED FROM FACE OF DIFFUSER.
- g. ACCESSORIES:
- 1). SQUARE TO ROUND NECK ADAPTOR.
- 2). PLASTER RING.
- D. CEILING RETURN GRILLES.
1. MATERIAL: STEEL.
2. FINISH: BAKED ENAMEL, WHITE.
3. FACE SIZE: 24"x24".
4. FACE STYLE: FLUSH, MINIMUM 22-GAUGE STEEL, HOUSING COVERED WITH REMOVABLE PERFORATED PANEL (PERFORATED SCREEN WITH 3/16" DIAMETER HOLES ON 1/4" STAGGERED CENTERS) IN FRAME, MINIMUM 51% FREE AREA, PROVIDE 22"x22" BACKPAN (NECK SIZE AS SHOWN ON DRAWINGS, STANDARD NECK SIZE WHERE NOT INDICATED).
- 1). MINIMUM 22-GAUGE STEEL BACKPAN (WELDED-IN INLETS AND CORNER JOINTS ARE NOT ACCEPTABLE).
5. MOUNTING: T-BAR (LAY-IN).
6. DAMPERS: ADJUSTABLE, OPPOSED-BLADE, KEY OPERATED FROM FACE OF DIFFUSER.
- E. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DIFFUSERS, REGISTERS AND GRILLES OF ONE OF THE FOLLOWING:
1. PRICE INDUSTRIES.
2. TITUS.
- 2.4 DUCTWORK CLEANING
- A. EXISTING DUCTWORK RETAINED FOR REUSE AND ALL NEW DUCTWORK INSTALLED UNDER THIS SCOPE SHALL BE CLEANED, TESTED, AND DEMONSTRATED TO BE CLEAN IN ACCORDANCE WITH THE STANDARDS SET FORTH BY NADCA. THE CLEANING, TESTING, AND DEMONSTRATION TO ARCHITECT, AND OWNER SHALL OCCUR IMMEDIATELY PRIOR TO OCCUPANCY TO AVOID CONTAMINATION FROM CONSTRUCTION DUST AND OTHER AIRBORNE PARTICULATES.

PART 1 GENERAL

1.01 SUMMARY:

- A. THE CONTRACTOR SHALL PROVIDE THE BUILDING PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS, AS SPECIFIED IN THIS SECTION, AND AS NEEDED FOR A COMPLETE INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO:
1. APPLICATIONS AND FEES FOR ALL PLUMBING PERMITS, SERVICES, AND INTERIM AND FINAL INSPECTIONS.
2. TEMPORARY WATER PROVISIONS AS REQUIRED FOR CONSTRUCTION PURPOSES.
3. EXCAVATION AND BACKFILL FOR PLUMBING SYSTEMS WORK.
4. CONCRETE PADS AND PITS AS MAY BE REQUIRED FOR PLUMBING SYSTEMS WORK.
5. DOMESTIC HOT AND COLD WATER PIPING SYSTEMS, INCLUDING BACKFLOW PREVENTER.
6. DRAIN, WASTE, AND VENT SYSTEMS.
7. GAS PIPING SYSTEM.
8. STORM PIPING SYSTEM.
9. PLUMBING FIXTURES AND TRIM.
10. CATHODIC AND DIELECTRIC PROTECTION.
11. ACCESSORY PLUMBING DEVICES INCLUDING BUT NOT NECESSARILY LIMITED TO HANGERS, SUPPORTS, INSERTS AND VALVES.
12. ACCESS PANELS AND BOXES FOR CONTRACTOR-PROVIDED VALVES.
13. PIPING INSULATION.
14. CUTTING AND PATCHING.
15. FINAL GAS CONNECTIONS TO HVAC EQUIPMENT.
16. PAINTING OF EXPOSED PIPING.
17. STERILIZATION OF THE POTABLE WATER SYSTEM.
18. SEISMIC RESTRAINTS (AS MAY BE REQUIRED BY THE LOCAL JURISDICTION).
19. TESTING, ADJUSTING AND BALANCING.
- B. THE CONTRACTOR SHALL INCLUDE THE COST OF APPLICATIONS AND FEES FOR ALL PLUMBING PERMITS, SERVICES, AND INTERIM AND FINAL INSPECTIONS IN THE BASE BID.
- 1.02 SUBMITTALS:
- THE CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE PRODUCT DATA FOR REVIEW BY THE ARCHITECT/ENGINEER, ANY REQUEST FOR PRODUCT SUBSTITUTION MUST BE SUBMITTED ONE WEEK PRIOR TO BID SUBMISSION.
- 1.03 QUALITY ASSURANCE:
- CODES AND REGULATIONS:
- ALL MATERIALS, APPARATUS, AND EQUIPMENT AND THE INSTALLATION THEREOF SHALL COMPLY WITH ALL STATE AND COUNTY ORDINANCES AND ALL OTHER GOVERNMENTAL AND/OR PRIVATE AUTHORITIES HAVING JURISDICTION, AND SHALL COMPLY WITH ALL COUNTY AND STATE LAWS, RULES, AND REGULATIONS, AS WELL AS RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE PLUMBING CODE HAVING JURISDICTION. IN THE EVENT OF CONFLICT BETWEEN OR AMONG SPECIFIED REQUIREMENTS AND PERTINENT REGULATIONS, THE MORE STRINGENT REQUIREMENT WILL GOVERN AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- DRAWINGS AND COORDINATION:
- CONSTRUCTION DRAWINGS SHALL BE CONSIDERED AS A PART OF THE WORK, INsofar AS THE DRAWINGS FURNISH THE CONTRACTOR WITH INFORMATION RELATING TO DESIGN AND CONSTRUCTION OF THE BUILDING, BECAUSE OF THE SCALE OF THE MECHANICAL DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED TO MEET SUCH CONDITIONS.
- THE PLUMBING DRAWINGS SHOW THE GENERAL ARRANGEMENTS OF ALL PIPING, DUCTWORK, EQUIPMENT, ETC., AND SHALL NOT BE SCALED. THIS WORK SHALL BE COORDINATED WITH ALL TRADES. CRITICAL LOCATIONS ARE DIMENSIONED ON THE DRAWINGS; IF A CONFLICT ARISES, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT/ ENGINEER IMMEDIATELY FOR CLARIFICATION.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS GOVERNING THE PLUMBING SYSTEMS WORK IN THE BUILDING. NO EXTRA COMPENSATION SHALL BE CLAIMED OR ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL EXAMINE ADJOINING WORK, ON WHICH MECHANICAL WORK IS DEPENDENT FOR PROPER OPERATION, AND SHALL REPORT ANY WORK WHICH MUST BE CORRECTED. NO WAIVER OF RESPONSIBILITY FOR DEFECTIVE WORK SHALL BE CLAIMED OR ALLOWED DUE TO ANY FAILURE TO REPORT UNFAVORABLE CONDITIONS AFFECTING THE PLUMBING SYSTEMS WORK.
- 1.04 WARRANTY/ CLOSEOUT DOCUMENTS:
- MANUFACTURER'S WARRANTY: THE CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S STANDARD PRODUCT WARRANTY.
- INSTALLER'S WARRANTY: THE CONTRACTOR SHALL INCLUDE A COPY OF THE SUBCONTRACTOR'S WARRANTY FOR ALL WORK PROVIDED UNDER THE CONTRACT FOR CONSTRUCTION FOR A TERM OF 1 YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION.
- WARRANTIES SHALL BE INCLUDED IN THE BUILDING MAINTENANCE MANUALS SUBMITTED TO THE OWNER AFTER THE DATE OF FINAL COMPLETION.
- STERILIZATION CERTIFICATE OF PERFORMANCE: UPON COMPLETION OF THE WATER LINE STERILIZATION, THE CONTRACTOR SHALL DELIVER A COPY OF AN ACCEPTABLE STERILIZATION CERTIFICATE OF PERFORMANCE TO THE OWNER. THIS STERILIZATION CERTIFICATE OF PERFORMANCE SHALL ADDITIONALLY BE INCLUDED IN THE BUILDING MAINTENANCE MANUALS SUBMITTED TO THE CONSTRUCTION PROJECT MANAGER AFTER THE DATE OF FINAL COMPLETION, AS FURTHER DESCRIBED IN THIS SECTION.
- PROJECT RECORD DRAWINGS: THE CONTRACTOR SHALL RECORD ALL CHANGES AS THE WORK PROGRESSES ON A SET OF PROJECT RECORD DRAWINGS KEPT AT THE JOB SITE, AND SHALL PROVIDE RECORD DRAWINGS TO THE CONSTRUCTION PROJECT MANAGER AFTER THE DATE OF SUBSTANTIAL COMPLETION.
- PART 2 PRODUCTS
- 2.01 GENERAL:
- THE WORD PIPING SHALL MEAN PIPE, FITTINGS, NIPPLES, VALVES, ETC. COMPLETELY ASSEMBLED.
- 2.02 DOMESTIC WATER SYSTEM:
- WATER LINES:
- COPPER: TYPE "L" HARD DRAWN, PER ASTM B88-7, FOR ALL WATER PIPE ABOVE CONCRETE OR GROUND.
- COPPER: TYPE "K" HARD DRAWN, PER ASTM B88-7, FOR WATER PIPE SET IN OR UNDER CONCRETE OR IN THE GROUND. WRAP LINES BELOW CONCRETE FLOORS WITH 5 MILS POLYETHYLENE TAPE WITH JOINTS OVERLAPPED 25% MINIMUM, AND INSULATE WITH ARMAFLEX INSULATION. NO FITTINGS SHALL BE UNDER THE SLAB.
- FITTINGS: WROUGHT COPPER, PER ANSI B16.18 AND B16.22.
- IDENTIFICATION: COLOR IDENTIFY PIPE WITH SIZE OF PIPE MANUFACTURER'S TRADEMARK, AND CONFORM TO THE FOLLOWING SCHEDULE:
- TYPE "K" COPPER - GREEN
- TYPE "L" COPPER - BLUE
- PEX WATER LINES: (MAY BE USED ONLY IF APPROVED BY THE PROPERTY OWNER)
- UPONOR PEX-A TUBING: TUBING TO BE PER ASTM F876 AND ASTM F877, UPONOR AQUAPEX, FOR ALL WATER PIPE ABOVE OR BELOW CONCRETE OR GROUND, ALL SIZES BELOW 3". FITTINGS: FITTING ASSEMBLY IS MANUFACTURED FROM MATERIAL LISTED IN PARAGRAPH 5.1 OF ASTM F1960. ALL FITTING MATERIAL IS TO COMPLY WITH ASTM F1960. TYPE: PEX-A COLD EXPANSION FITTING. ASSEMBLY CONSISTS OF THE APPROPRIATE PROPEX INSERT WITH A CORRESPONDING PROPEX RING. PEX MANIFOLD: MATERIAL: TYPE L COPPER BODY WITH UNS 3600 SERIES BRASS PROPEX OUTLET CONNECTIONS OR ENGINEERED PLASTIC (EP) BODY WITH PROPEX OUTLET CONNECTIONS. MANIFOLD TYPE: UPONOR PROPEX 1" COPPER MANIFOLD OR UPONOR ENGINEERED PLASTIC (EP) MANIFOLD. ALL MANIFOLDS MANUFACTURED WITH THE APPROPRIATE-SIZED PROPEX FITTINGS ON THE MANIFOLD SUPPLY INLETS.

SPECIFICATION FOR CPVC HOT AND COLD WATER COMMERCIAL SYSTEMS (WITH PIPING COMPONENTS 1/2" - 6"):

ALL PIPE AND FITTINGS TO BE MANUFACTURED FROM CPVC COMPOUND WITH A CELL CLASS OF 24448 FOR PIPE AND 23447 FOR FITTINGS AS PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61.

1/2" THROUGH 2" SIZES: FLOWGUARD GOLD® CPVC COPPER TUBE SIZE MFG. TO STANDARD DIMENSION RATIO (SDR) 11 AND SHALL CONFORM TO ASTM D-2846. TRANSITION FITTINGS TO HAVE BRASS MALE OR FEMALE CONNECTIONS WITH INTEGRAL CPVC SOCKET CONNECTIONS AS MFG. BY CHARLOTTE PIPE AND FOUNDRY CO.

3" THROUGH 6" SIZES: CORZANO® CPVC SCHEDULE 80 IRON PIPE SIZE (IPS). PIPE SHALL CONFORM TO ASTM F-441. SOCKET TYPE FITTINGS SHALL CONFORM TO ASTM F-439. TRANSITION TO METAL PIPING TO BE MADE USING 150# FLANGED CONNECTIONS.

ALL PIPE AND FITTINGS TO BE PRODUCED BY A SINGLE MANUFACTURER AND TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. FLOWGUARD GOLD TO BE JOINED USING APPROVED ONE-STEP SOLVENT CEMENT CONFORMING TO ASTM F-493. CORZANO TO BE INSTALLED USING APPROVED SOLVENT CEMENT CONFORMING TO ASTM F-493 AND PRIMER CONFORMING TO ASTM F-656. PIPE AND FITTINGS TO BE MANUFACTURED BY CHARLOTTE PIPE AND FOUNDRY CO. AND ARE INTENDED FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION SYSTEMS.

2.03 PIPE HANGERS AND SUPPORTS:

ROOFTOP PIPING SUPPORT PEDESTALS: HORIZONTAL PIPING MOUNTED ON ROOF SHALL BE SUPPORTED WITH PRE-MANUFACTURED PEDESTALS AND ACCESSORY PIPE STRAPS AS SPECIFIED IN SECTION 07720- ROOF ACCESSORIES. WOOD BLOCKING WITH PIPE CLAMPS IS NOT AN ACCEPTABLE MEANS OF SUPPORTING HORIZONTAL PIPING LOCATED ON THE ROOF, AND THE INSTALLATION OF SAME WILL BE REJECTED BY THE BBB CONSTRUCTION PROJECT MANAGER OR THE ARCHITECT/ ENGINEER.

ADEQUATELY SUPPORT PIPING AGAINST SAGGING, POCKETING, SWAYING, AND DISPLACEMENT. PROPERLY SPACE AND APPLY HANGERS TO ACHIEVE THE RESULT, AND NOT FARTHER APART THAN THE FOLLOWING:

- STEEL PIPE:
- 1 1/4" AND SMALLER, 8 FOOT ON CENTER
- 1 1/2" AND LARGER, 10 FOOT ON CENTER
- COPPER TUBING:
- 1 1/4" AND SMALLER, 6 FOOT ON CENTER
- 1 1/2" AND LARGER, 10 FOOT ON CENTER
- PLASTIC PIPE (WHERE ALLOWED):
- 1 1/2" AND SMALLER, 3 FOOT ON CENTER
- 2" AND LARGER, 4 FOOT ON CENTER

INSTALL TRISULATOR #500 ISOLATORS AROUND ALL UNINSULATED COPPER LINES WHERE HANGER OCCURS. INSTALL DIELECTRIC FITTING BETWEEN ALL FERROUS AND NON-FERROUS PIPING WITH A 12" SECTION OF RED BRASS PIPE IN BETWEEN.

SIZE ALL HANGERS ON INSULATED LINES TO FIT AROUND OUTSIDE DIAMETER OF INSULATION SPECIFIED WITH ALLOWANCE FOR SHEET METAL SHIELD. PIPE SHIELD SHALL BE 1/32" CIRCUMFERENCE OF INSULATION OF A LENGTH OF NOT LESS THAN 3 X DIAMETER OF THE INSULATION (MAXIMUM 24").

2.04 PIPE HANGERS AND SUPPORTS CONTINUED:

MANUFACTURER: GRINNELL COMPANY CATALOG NUMBERS ARE INDICATED TO SIMPLIFY THE DESCRIPTION, HOWEVER, HANGERS AND SUPPORTS SHALL BE GRINNELL, GRABLER, FEE & MASON, ELCEM OR APPROVED EQUAL.

OVERHEAD SUPPORTED: EACH HORIZONTAL PIPE SHALL BE SUPPORTED ON ADJUSTABLE WROUGHT IRON CLEVIS HANGERS EQUAL TO GRINNELL FIGURE 260, EXCEPT THAT GROUPS OF PIPES SHALL BE SUPPORTED ON TRAPEZE HANGERS MADE UP OF STEEL RODS AND STEEL CHANNELS OR ANGLES. PIPE SHALL BE "U" BOLTED TO TRAPEZE AND TRAPEZE SPACED FOR THE SMALLEST PIPE IN THE GROUP.

2.05 PLUMBING SYSTEM INSULATION:

ALL INSULATION SHALL BE APPLIED IN A NEAT AND WORKMANLIKE MANNER. REMOVE AND REPLACE ALL INSULATION NOT APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS OR NOT PRESENTING A NEAT APPEARANCE. INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND SLEEVES.

WORK INCLUDED: PIPE COVERING FOR DOMESTIC COLD WATER PIPING.

MATERIALS AND INSTALLATION: NO PIPE INSULATION SHALL BE APPLIED UNTIL PIPING HAS BEEN PRESSURE TESTED AND APPROVED. ALL INSULATION SHALL BE APPLIED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MATERIALS AS MANUFACTURED BY JOHNS MANVILLE, FIBERGLASS, PHILLIP CAREY, OR ARMSTRONG WILL BE ACCEPTABLE IF EQUAL TO THOSE SPECIFIED. ALL INSULATION ON INDOOR WORK SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE NFPA 255 NOT EXCEEDING: FLAME SPREAD 25, FUEL CONTRIBUTED 50, SMOKE DEVELOPED 50. ACCESSORIES, SUCH AS ADHESIVES, MASTICS, CEMENTS, TAPES, AND CLOTH FOR FITTING, SHALL HAVE THE SAME COMPONENT RATINGS AS LISTED ABOVE. INSULATION SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY NOT TO EXCEED 0.25 BTU/INCH OF THICKNESS PER SQUARE FOOT PER 1 DEGREE F. AT A MEAN TEMPERATURE OF 75 DEGREES F.

DOMESTIC HOT WATER AND TEMPERED WATER PIPING: ALL DOMESTIC HOT WATER AND TEMPERED WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATED WITH FOIL-KRAFT LAMINATE VAPOR BARRIER FASTENED WITH PRESSURE SENSITIVE TAPE AND STAPLED 12" ON CENTER. ALL FITTINGS, VALVES, FLANGES, ETC. SHALL BE COVERED WITH PVC FITTING COVER, TAPED AND TACKED FASTENED.

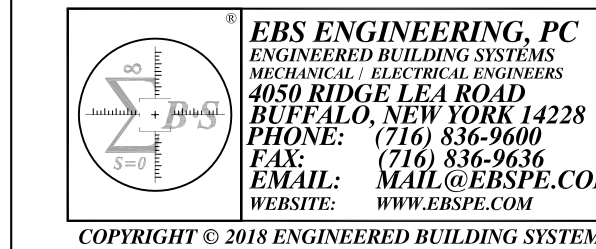
COLD WATER PIPING: ALL DOMESTIC COLD WATER PIPING AND SIMILAR PIPING AS FURTHER REFERENCED, SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATED WITH FOIL KRAFT LAMINATED VAPOR BARRIER FASTENED WITH PRESSURE SENSITIVE TAPE AND STAPLES 1" O.C. ALL FITTINGS, VALVES, STRAINERS, FLANGES, ETC. SHALL BE COVERED WITH A PVC FITTING COVER, TAPED AND TACK FASTENED.

NO INSULATION SHALL BE INSTALLED ON ANY PIPING BEFORE THE BUILDING IS ADEQUATELY CLOSED IN. WHERE NECESSARY TO INSTALL ANY INSULATION BEFORE IT IS PROTECTED BY BUILDING ENCLOSURES, AND IF ACCEPTABLE BY THE LOCAL JURISDICTION, THE COVERING MUST BE EFFECTIVELY PROTECTED WITH ROOFING FELT, WIRED ON THE COVERING TO MAKE AN ABSOLUTE WATERPROOF PROTECTION FOR THE PIPE COVERING.

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TITLE: MECHANICAL & PLUMBING SPECIFICATIONS



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ELECTRICAL SYMBOLS LEGEND
NOT ALL SYMBOLS MAY BE REPRESENTED ON DRAWINGS

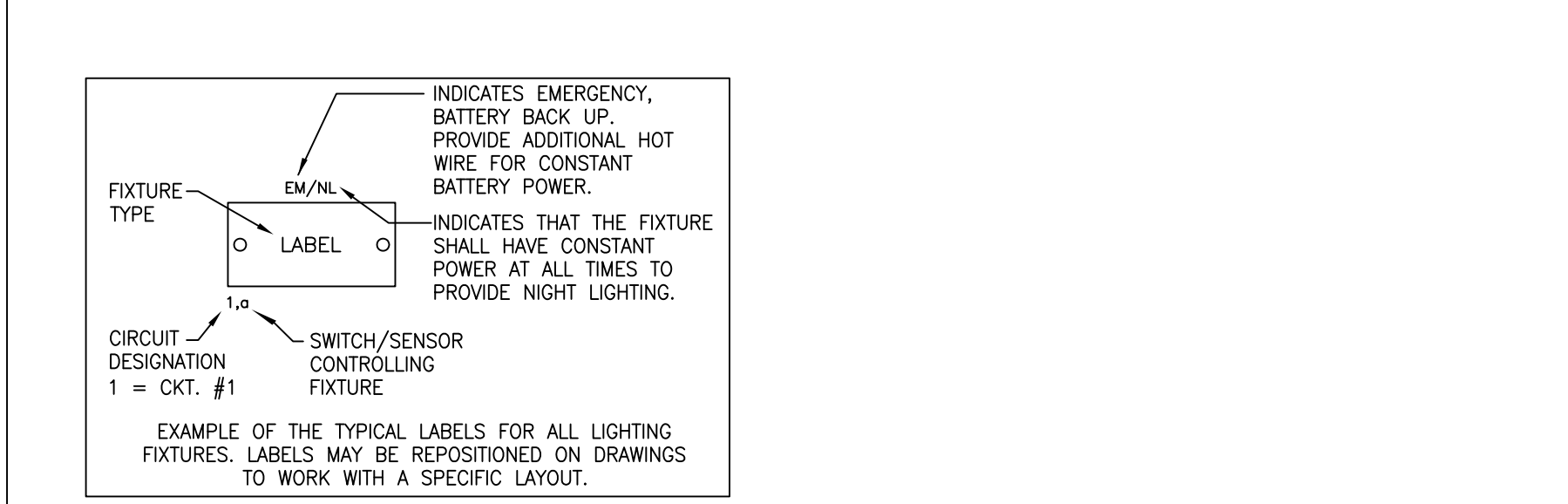
POWER SYMBOLS	LIGHTING CONTROL SYMBOLS	FIRE ALARM SYMBOLS
HOMERUN TO PANELBOARD #12, #12G IN 1/2" UNLESS SHOWN OTHERWISE.	TOGGLE SWITCH. LOWER CASE LETTER IS CONTROL (SINGLE-POLE)	FIRE ALARM CONTROL PANEL
JUNCTION BOX (SIZE AS REQUIRED)	TOGGLE SWITCH. LOWER CASE LETTER IS CONTROL (SINGLE-POLE, 3-WAY)	FIRE ALARM REMOTE ANNUNCIATOR PANEL
CONDUIT/WIRE BREAK	DIMMER. LOWER CASE LETTER INDICATES CONTROL (SINGLE-POLE)	FIRE ALARM PULLSTATION - INSTALL 48" A.F.F. TO CENTER OF BOX
CONDUIT STUB OUT	DIMMER (SINGLE-POLE). SHALL BE SUITABLE FOR DIMMING LED LAMPS. PROVIDE WIRING FOR 0-10V DIMMING. LOWER CASE LETTER INDICATES CONTROL.	PHOTOELECTRIC SMOKE DETECTOR WITH STANDARD BASE. WIRE INTO INITIATING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
CONDUIT STUB-DOWN	DIMMER (SINGLE-POLE, 3-WAY). SHALL BE SUITABLE FOR DIMMING LED LAMPS. PROVIDE WIRING FOR 0-10V DIMMING. LOWER CASE LETTER INDICATES CONTROL.	COMBINATION CARBON MONOXIDE / PHOTOELECTRIC SMOKE DETECTOR WITH AN AUDIBLE BASE. WIRE INTO INITIATING / SUPERVISORY / SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
CONDUIT STUB-UP	MOMENTARY CONTACT SWITCH (SINGLE-POLE)	HEAT DETECTOR - FIXED TEMPERATURE OF 135°. WIRED INTO INITIATING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
208Y/120V RECESSED OR SURFACE MOUNTED PANELBOARD	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MOUNTED. OCCUPANCY TIME DELAY = 15 MINUTES. ON MODE = MANUAL ACUITY CONTROLS - SENSOR SWITCH #WSX-PDT-SA-WH PROGRAM OCC. SENSOR FOR MANUAL CONTROL. PROGRAM AUTOMATIC CONTROL FOR ALL PUBLIC AREAS I.E. PUBLIC RESTROOMS. SHALL MEET 2015 IECC REQUIREMENTS.	COMBINATION CARBON MONOXIDE / HEAT DETECTOR. FIXED TEMPERATURE OF 135° WITH AN AUDIBLE BASE. WIRE INTO INITIATING / SUPERVISORY / SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
ELECTRIC MOTOR - PROVIDED & INSTALLED BY OTHERS, WIRED BY E.C. SEE EQUIPMENT WIRING SCHEDULE FOR ELEC. REQUIREMENTS	COMMUNICATION SYMBOLS	CARBON MONOXIDE DETECTOR WITH AUDIBLE BASE. WIRE INTO SUPERVISORY CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
RECEPTACLE (SIMPLEX) # INDICATES CKT.	COMMUNICATION SYMBOLS	DUCT SMOKE DETECTOR - WIRED INTO INITIATING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL WITHIN HVAC DUCTWORK.
RECEPTACLE (DUPLEX) # INDICATES CKT.	COMMUNICATION SYMBOLS	AUDIO DEVICE (WALL) - WIRED INTO SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL 80" A.F.F. TO BOTTOM OF BOX
RECEPTACLE (QUAD) # INDICATES CKT.	COMMUNICATION SYMBOLS	VISUAL DEVICE (WALL) - WIRE INTO SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL 80" A.F.F. TO BOTTOM OF BOX
RECEPTACLE (DUPLEX) W/ GROUND FAULT PROTECTION, # INDICATES CKT.	COMMUNICATION SYMBOLS	COMBINATION AUDIO/VISUAL DEVICE (WALL) - WIRE INTO SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL 80" A.F.F. TO BOTTOM OF BOX
RECEPTACLE (QUAD) W/ GROUND FAULT PROTECTION, # INDICATES CKT.	COMMUNICATION SYMBOLS	STROBE DEVICE (CEILING) - WIRED INTO SIGNALING CIRCUITS OF BUILDING FIRE ALARM SYSTEM. INSTALL @ FINISHED CEILING.
COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH	COMMUNICATION SYMBOLS	MAGNETIC DOOR HOLDER - TO BE INSTALLED WITHIN WALL & WIRED INTO BUILDING FIRE ALARM SYSTEM AS REQUIRED.
NON-FUSED DISCONNECT SWITCH	COMMUNICATION SYMBOLS	REMOTE TEST STATION
FUSED DISCONNECT SWITCH	COMMUNICATION SYMBOLS	
NOTIFICATION BELL.	COMMUNICATION SYMBOLS	
ELECTRIC DOOR STRIKE. E.C. TO SUPPLY ES WITH A 120V POWER CONNECTION. VERIFY POWER TERMINATION REQUIREMENTS TO ES IN FIELD. ELECTRIC DOOR STRIKE, ASSOCIATED LOW-VOLTAGE WIRING & ADDITIONAL SYSTEM DEVICES/EQUIPMENT TO BE PROVIDED AND INSTALLED BY SECURITY SYSTEM CONTRACTOR.	COMMUNICATION SYMBOLS	
HANDS-FREE INTERCOM STATION WITH CALL BUTTON. E.C. TO PROVIDE SINGLE-GANG ELECTRICAL BOX & INSTALL 48" A.F.F. WITH 3/4" EMT CONDUIT INSTALLED VERTICALLY, WITHIN WALL, FROM ELECTRICAL BOX STUBBING CONDUIT OUT FROM WALL IN ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT WITH PLASTIC BUSHINGS AND A PULLSTRING. ELECTRICAL BOX & CONDUIT SHALL BE UTILIZED FOR IS INSTALLATION WITH ASSOCIATED LOW-VOLTAGE WIRING. INTERCOM STATION, LOW-VOLTAGE WIRING & ADDITIONAL SYSTEM DEVICES/EQUIPMENT TO BE PROVIDED AND INSTALLED BY SECURITY SYSTEM CONTRACTOR.	COMMUNICATION SYMBOLS	

GENERAL NOTES TO ELECTRICAL SYMBOLS LEGEND:

- UTILIZE TYPE "MC" CABLE IN CONCEALED AREAS UNLESS NOTED OTHERWISE. EXPOSED ELECTRICAL WORK SHALL BE INSTALLED WITHIN CODE SPECIFIED CONDUIT WITH STEEL SET SCREW FITTINGS.
- MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ALL REQUIREMENTS OF N.E.C. ARTICLE 210.4. HANDLE TIES MUST BE INSTALLED TO IDENTIFY SINGLE-POLE, MULTIWIRE BRANCH CIRCUITS PER ALL REQUIREMENTS OF N.E.C. ARTICLE 240.15(B).
- ALL STANDARD RECEPTACLES SHALL BE INSTALLED 18" A.F.F. TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
- ALL INTERIOR GFI RECEPTACLES SHALL BE INSTALLED 44" A.F.F. TO CENTER OF BOX/ABOVE COUNTER TOP. FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED. COORDINATE INSTALLATION HEIGHT WITH ARCHITECTURAL MILLWORK/ELEVATION PLANS WHEN APPLICABLE.
- ALL EXTERIOR GFI RECEPTACLES SHALL BE INSTALLED HORIZONTALLY 24" A.F.F. TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED. PROVIDE A WEATHERPROOF COVERPLATE FOR EXTERIOR USE.
- ALL TOGGLE SWITCHES, DIMMERS, KEYED SWITCHES ETC... SHALL BE INSTALLED 48" A.F.F. TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
- ELECTRICAL DEVICES WITH HANDICAP ACCESSIBLE ROOMS SHALL BE INSTALLED AT HEIGHTS PER ADA REQUIREMENTS.
- COMMUNICATION DEVICES (IE: TELEPHONE, DATA, CATV) SHALL BE INSTALLED 18" A.F.F. TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
- FIRE ALARM DEVICES SHALL BE INSTALLED AS NOTED IN INDIVIDUAL DESCRIPTIONS.

LIGHTING FIXTURE SCHEDULE

SYMBOL/ DESIGNATION	DESCRIPTION	LAMP (QTY./TYPE/COLOR)	VOLT	VA	MOUNTING	MANUFACTURER/ MODEL #
FA	2'X4' LAY-IN LED TROFFER, COLD ROLLED STEEL HOUSING WITH ACRYLIC CURVED DIFFUSER.	LED/3500°K 4000 LUMENS	120/ 277V	39W	RECESSED GRID	LITHONIA LIGHTING: 2BLT4-40L-ADP-EZ1-LP835
FAT	2'X4' LAY-IN LED TROFFER, COLD ROLLED STEEL HOUSING WITH ACRYLIC CURVED DIFFUSER.	LED/3500°K 4800 LUMENS	120/ 277V	45W	RECESSED GRID	LITHONIA LIGHTING: 2BLT4-40L-ADP-EZ1-LP835
FB	6" DIAMETER OPEN LED DOWNLIGHT, GALVANIZED STEEL FRAME AND SEMI-SPECULAR FINISH.	LED/3500°K 1500 LUMENS	120/ 277V	18W	RECESSED	LITHONIA LIGHTING: L0N6-35-15-L06-AR-LSS-MVOLT-EZ10
FC	SINGLE PENDANT MOUNT LUMINAIRE.	INCANDESCENT, 60W CUSTOM LAMP	120V	60W	PENDANT	WADE LOGAN NEAL LIGHTING: LDWDL7990
FD	COORDINATE WITH OWNER & G.C. FOR FIXTURE TYPE AND QUANTITY.					
FE	15' LONG LED STRIP LIGHT WITH 15' LONG CHANNEL MOUNTING BRACKET & END CAPS.	LED/3000°K 385 LUMENS/FT.	120V	4W/FT.	RECESSED/ MILLWORK	LUMILUM LIGHTING: LUM-120505-3000X (LIGHT) LUM-120905U1 (U-CHANNEL)
EXIT	EXIT SIGN, UNIVERSAL MOUNT WITH CANOPY, WHITE IMPACT & SCRATCH RESISTANT THERMOPLASTIC HOUSING, 8" STENCILED RED LETTERS WITH LED LAMPS & AN INTEGRAL BATTERY PACK.	LED - FURNISHED WITH FIXTURE	120/ 277V	N/A	WALL/CEILING - TO BE DETERMINED BY E.C.	LITHONIA LIGHTING: "QUANTUM" LQM-S-W-3-R-120/277-ELN
EM	EMERGENCY LED FIXTURE W/WHITE IMPACT & SCRATCH RESISTANT THERMOPLASTIC HOUSING, TWIN ADJ. HEADS & AN INTEGRAL BATTERY PACK.	TWO 1.5W/3.6V LEDs FURNISHED WITH FIXTURES	120/ 277V	N/A	WALL-8"-0" A.F.F. or 8" FROM FINISHED CEILING	LITHONIA LIGHTING: "QUANTUM" ELM2-LED
EM-HO	EMERGENCY LED FIXTURE W/WHITE IMPACT & SCRATCH RESISTANT THERMOPLASTIC HOUSING, TWIN ADJ. HEADS & HIGH OUTPUT INTEGRAL BATTERY PACK.	TWO 1.5W/3.6V LEDs FURNISHED WITH FIXTURES	120/ 277V	N/A	WALL-8"-0" A.F.F. or 8" FROM FINISHED CEILING	LITHONIA LIGHTING: "QUANTUM" ELM2-LED-HO
EM-HO	REMOTE EMERGENCY LED FIXTURE WITH TWIN, ADJUSTABLE LAMP HEADS AND A WEATHER-PROOF ALUMINUM HOUSING. FOR EMERGENCY EGRESS ILLUMINATION.	TWO 1.5W/3.6V LEDs	3.6V	N/A	WALL ±8"-6" A.F.F.	LITHONIA LIGHTING: ELA-1-QWP-LO304 (ELM2)



GENERAL NOTES TO LIGHTING FIXTURE SCHEDULE:

- CONTRACTOR TO VERIFY VOLTAGE SUPPLY TO EACH FIXTURE BEFORE ORDERING.
- FURNISH ALL FIXTURES COMPLETE WITH LAMPS.
- ALL LIGHTING FIXTURES SHALL CONFORM, AS A MINIMUM STANDARD, TO THE APPLICABLE PORTIONS OF THE FEDERAL SPECIFICATIONS.
- EACH LIGHTING FIXTURE SHALL BE SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS.
- PROVIDE "EARTHQUAKE CLIPS" ON LAY-IN (OR GRID) TROFFERS.
- WHERE FIXTURES ARE INSTALLED ON DRYWALL CEILINGS, THEY SHALL BE SUPPORTED FROM THE CEILING FRAMING SYSTEM OR THE BUILDING STRUCTURE. SUPPORT FROM DRYWALL IS NOT ACCEPTABLE.
- FIXTURES DESIGNATED "NL" SHALL BE PROVIDED WITH A CONSTANT POWER CONNECTION IN ORDER TO REMAIN ON AT ALL TIMES.
- FIXTURES DESIGNATED "EM" SHALL HAVE BATTERY BACKUP FOR EMERGENCY LIGHTING. EMERGENCY LIGHTING BATTERY PACKS SHALL PROVIDE 1-1/2 HOURS OF RELATED LAMP OPERATION.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE REQUIREMENT OF FLANGE KITS FOR FIXTURES IN ALL AREAS PRIOR TO ORDERING. SEE ARCHITECTURAL DRAWINGS FOR RCP DETAILS.

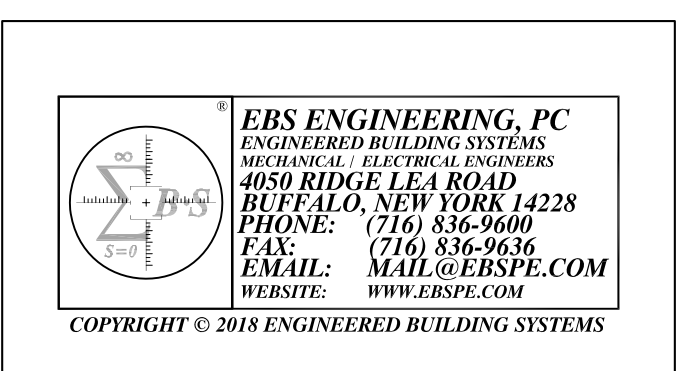
GENERAL SYMBOLS & ABBREVIATION
NOT ALL ABBREVIATIONS MAY BE REPRESENTED ON DRAWINGS

	SIGNIFIES EXISTING ELECTRICAL EQUIPMENT/ DEVICES TO REMAIN	GFI GND HQA HVAC HZ HZ IG IG IMC INT INT KCMIL KVA KVAR KV LFCM MCA MC MAU MA MCCB MCC MCP MPC MIN MLO NA NAC NC NEC NFPA NL NO NTS OC CM CCTV CD CKT CLF CEILING MOUNT CPT CU DC DIA EC ELEV EM EMT EPO ETR EWC F FAA FCU FLA FMC G GC	SIGNIFIES EXISTING ELECTRICAL EQUIPMENT/ DEVICES TO BE REMOVED	GFI GND HQA HVAC HZ HZ IG IG IMC INT INT KCMIL KVA KVAR KV LFCM MCA MC MAU MA MCCB MCC MCP MPC MIN MLO NA NAC NC NEC NFPA NL NO NTS OC CM CCTV CD CKT CLF CEILING MOUNT CPT CU DC DIA EC ELEV EM EMT EPO ETR EWC F FAA FCU FLA FMC G GC	GROUND FAULT CIRCUIT INTERRUPTER GROUND HAND-OFF-AUTOMATIC SWITCH HEATING, VENTILATION, AIR CONDITIONING HERTZ HERTZ ISOLATED GROUND INTERMEDIATE METAL CONDUIT INTERLOCK THOUSAND CIRCULAR MILS KILOVOLT-AMPERES KILOVOLT-AMPERES REACTIVE LIGHTING CONTACTOR LIQUID TIGHT FLEXIBLE METAL CONDUIT MAKE-UP AIR UNIT MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTION MINIMUM MAIN LUGS ONLY NOT APPLICABLE NOTIFICATION APPLIANCE CIRCUIT NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION NIGHT LIGHT NORMALLY OPEN NOT TO SCALE OVER COUNTER OVER HEAD ELECTRIC PULL BOX PLUMBING CONTRACTOR PANEL POWER POTENTIAL TRANSFORMER QUANTITY RIGID GALVANIZED STEEL RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT REMOTE TEST STATION ROOF TOP UNIT SHUNT TRIP UNDER GROUND COMMUNICATIONS UNDER GROUND ELECTRIC UNDERWRITERS LABORATORY VOLT VOLT-AMPERE WATT WIRE GUARD WEATHER PROOF TRANSFORMER
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Cheektowaga, NY

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05-22-18: ISSUED FOR BID/PERMIT

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. _____ INTERIORS _____

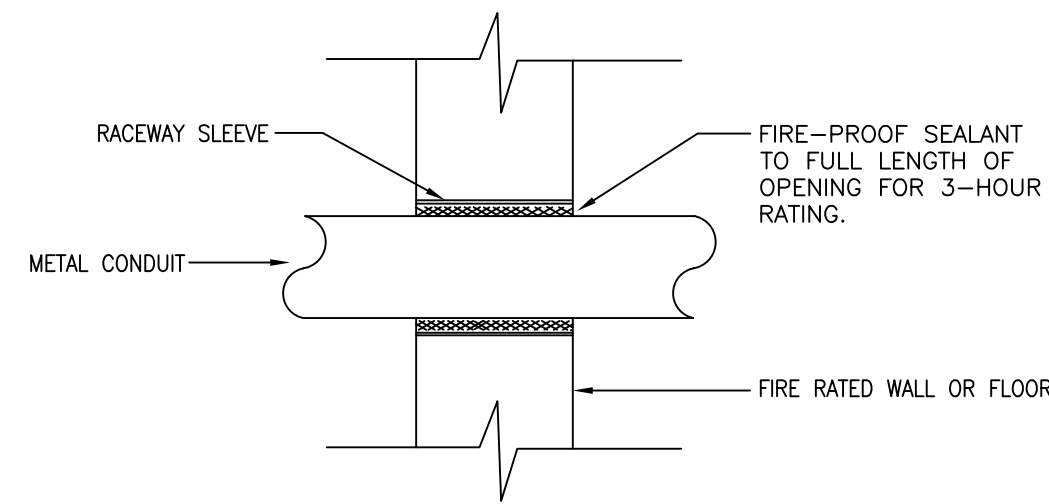
SEAL:

TITLE:
ELECTRICAL SYMBOLS, ABBREV. & LIGHTING SCHEDULE



SA JOB #: 14118.01 DATE: 05-22-18

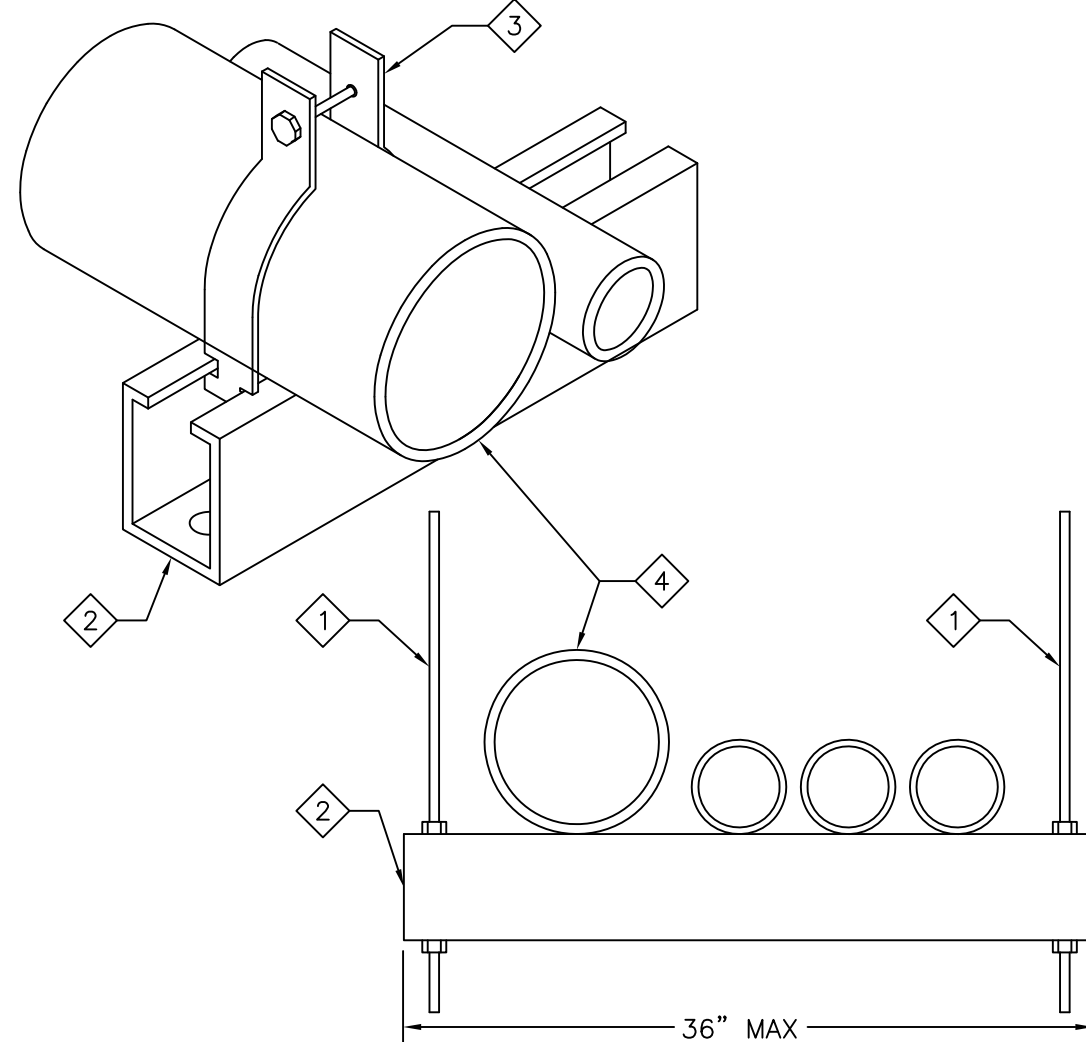
DRAWING #: E-1



- NOTES:**
- CORE DRILL THROUGH EXISTING OR NEW CONCRETE WALL.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY PENETRATIONS FOR CONDUIT SLEEVES AND FIRESTOP AS INDICATED ABOVE. THIS DETAIL IS TYPICAL FOR ALL FLOOR TO FLOOR AND FIREWALL PENETRATIONS.

RACEWAY PENETRATION THRU FIRE RATED WALL/FLOOR

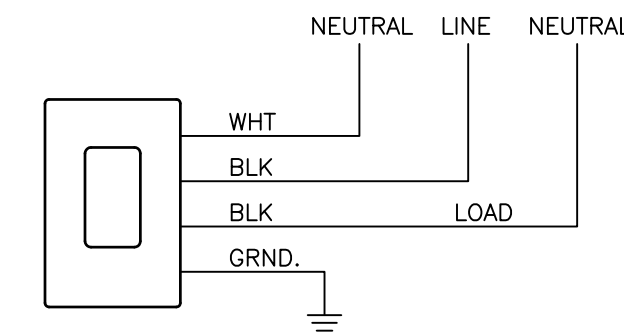
1 E-2 SCALE: N.T.S. Electrical Detail



- NOT TO SCALE
- | MARK | DESCRIPTION |
|------|--|
| 1. | 1/2" THREADED GALVANIZED STEEL RODS. |
| 2. | 1-1/2" SQ. 12 GAUGE MINIMUM GALVANIZED STEEL CHANNEL. |
| 3. | SINGLE BOLT CHANNEL 2 PIECE CONDUIT STRAPS. |
| 4. | CONDUIT SIZED AS NOTED ON DRAWINGS. |
| 5. | CONTRACTOR MAY USE A CONDUIT SUSPENSION SYSTEM EQUIVALENT TO THAT WHICH IS DETAILED, HAVING THE FEATURES SHOWN AND APPROVED IN ADVANCE BY THE RESIDENT ENGINEER. |
| 6. | PROVIDE A SAMPLE SUPPORT SYSTEM TO KEEP ON JOB SITE FOR CONSTRUCTION GUIDE PURPOSES. |
| 7. | CONDUIT SUSPENSION SYSTEM SHALL BE INDEPENDENT OF ANY OTHER SUSPENSION SYSTEM. |

4 CONDUIT/TRAPEZE MOUNTING DETAIL

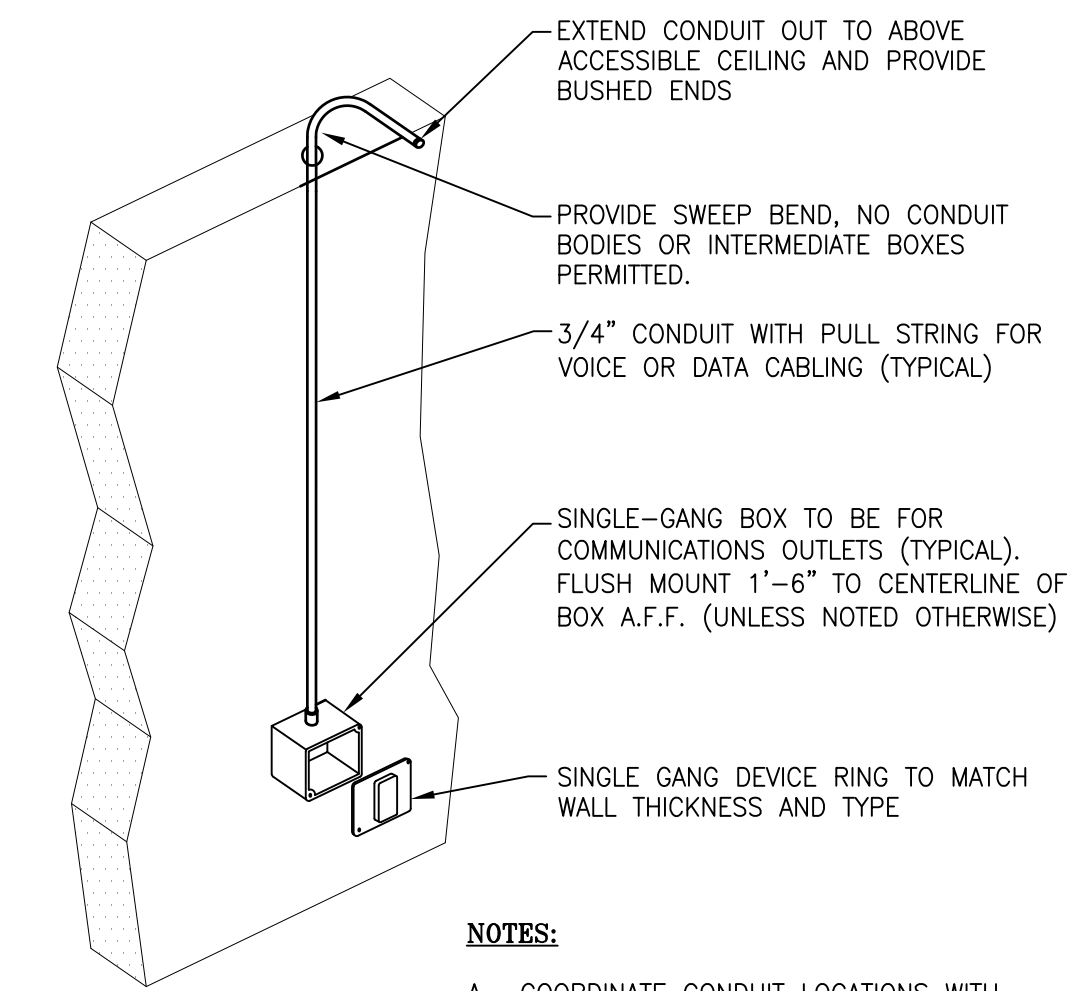
4 E-2 SCALE: N.T.S. Electrical Detail



- NOTES:**
- DETAIL SHOWN FOR REFERENCE ONLY. INSTALL AND WIRE PER MANUFACTURE INSTRUCTIONS.
 - PROGRAMMING FUNCTIONS SHALL REMAIN AT DEFAULT SETTING EXCEPT FOR AS FOLLOWS:
 - OCCUPANCY TIME DELAY = 15 MINUTES
 - ON MODE = SET FOR MANUAL ON CONTROL (OFFICES, JANITOR CLOSETS, STORAGE RMS, ETC. PER IECC)
 - ON MODE = SET FOR AUTO ON CONTROL (PUBLIC SPACES, I.E. RESTROOMS, CONFERENCE ROOMS, ETC. PER IECC)

TYPICAL WALL SWITCH OCCUPANCY SENSOR (TYP.)

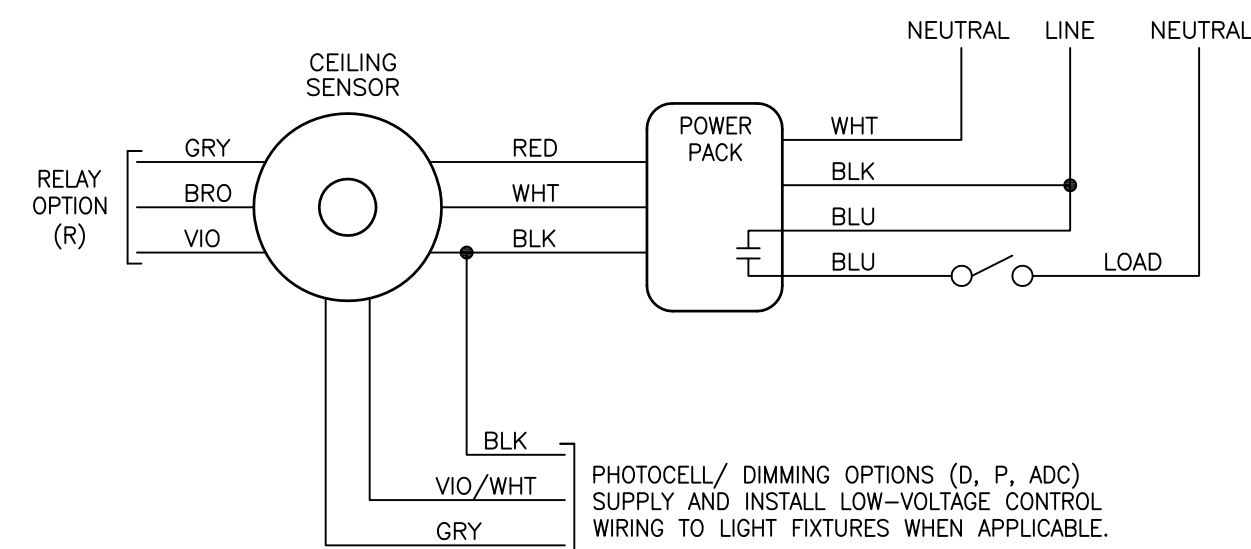
2 E-2 SCALE: N.T.S. Electrical Detail



- NOTES:**
- COORDINATE CONDUIT LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION.

3 COMMUNICATIONS (DATA/TELEPHONE) BOX AND CONDUIT INSTALLATION DETAIL

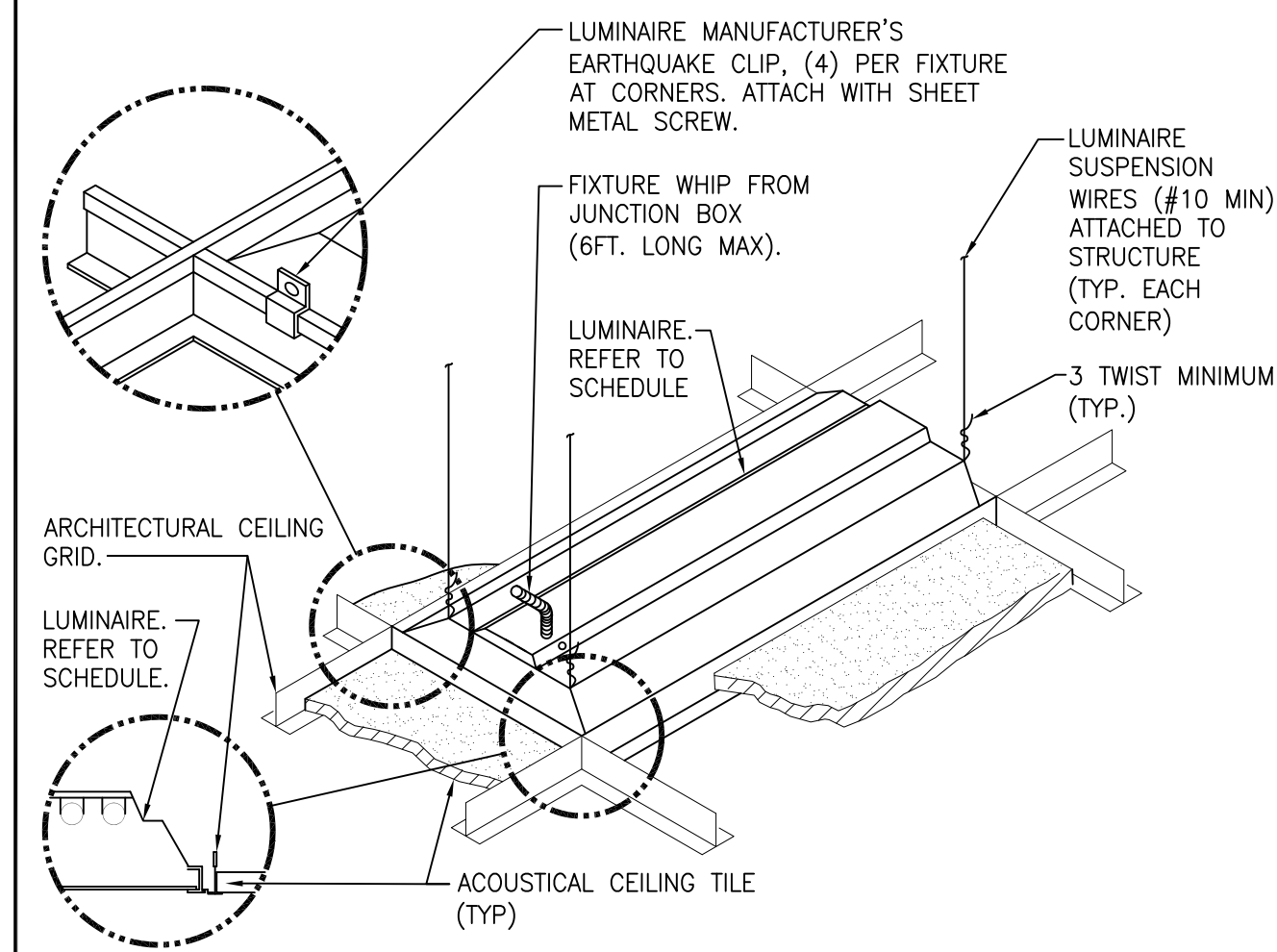
3 E-2 SCALE: N.T.S. Electrical Detail



- NOTES:**
- DETAIL SHOWN FOR REFERENCE ONLY. INSTALL AND WIRE PER MANUFACTURE INSTRUCTIONS.
 - PROGRAMMING FUNCTIONS SHALL REMAIN AT DEFAULT SETTING EXCEPT FOR AS FOLLOWS:
 - OCCUPANCY TIME DELAY = 30 MINUTES
 - PHOTOCELL MODE = DIM ONLY, NO OFF
 - DIMMING RANGE = 10V HIGH, 3V LOW

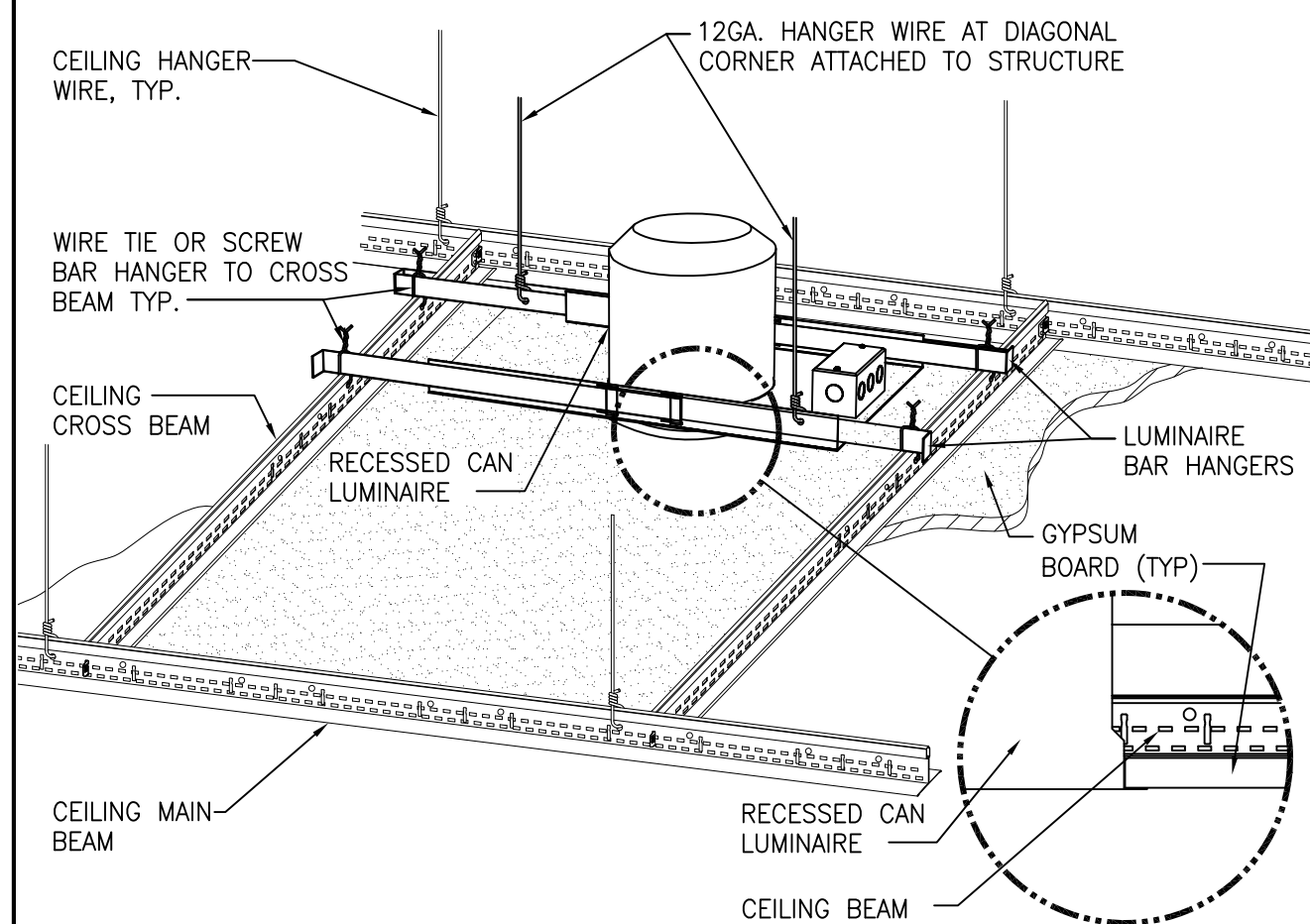
5 TYPICAL LOW-VOLTAGE CEILING MOUNT OCCUPANCY SENSOR

5 E-2 SCALE: N.T.S. Electrical Detail



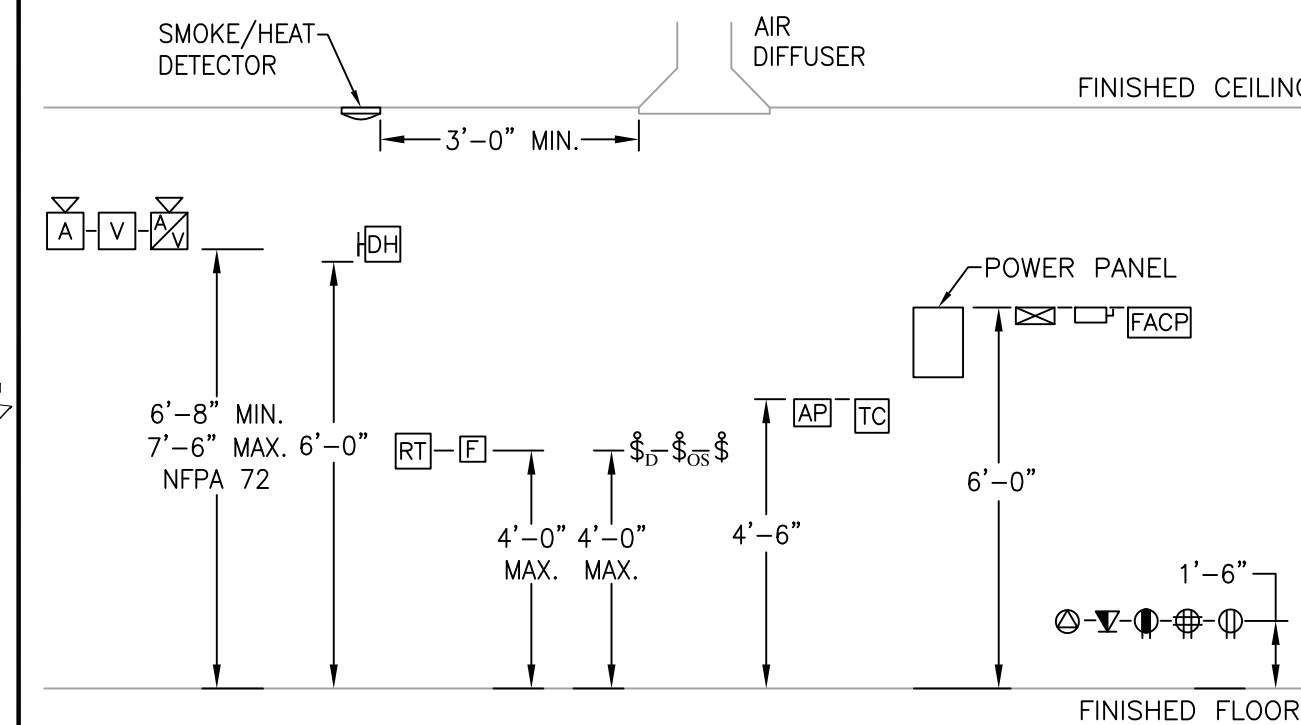
6 LUMINAIRE MOUNTING-LAY-IN. CEILING

6 E-2 SCALE: N.T.S. Electrical Detail



7 DOWNLIGHT MOUNTING-GYP. CEILING

7 E-2 SCALE: N.T.S. Electrical Detail

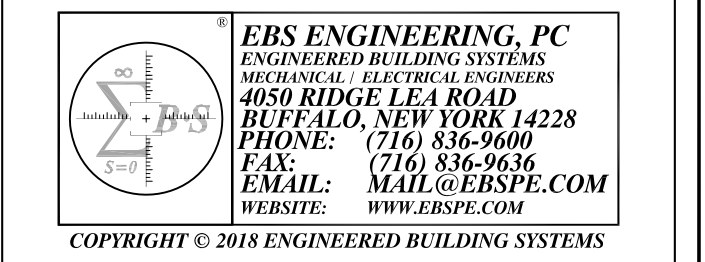


- NOTES:**
- ALL DEVICES SHOWN MAY NOT BE USED ON DRAWING.
 - DIMENSIONS ARE TO CENTER OF BOX, UNLESS OTHERWISE NOTED.
 - FIRE ALARM DEVICES ARE TO BOTTOM OF STROBE LENS.
 - ALL DIMENSIONS SHOWN ARE ACCURATE UNLESS NOTED OTHERWISE.

8 MOUNTING HEIGHT DETAIL

8 E-2 SCALE: N.T.S. Electrical Detail

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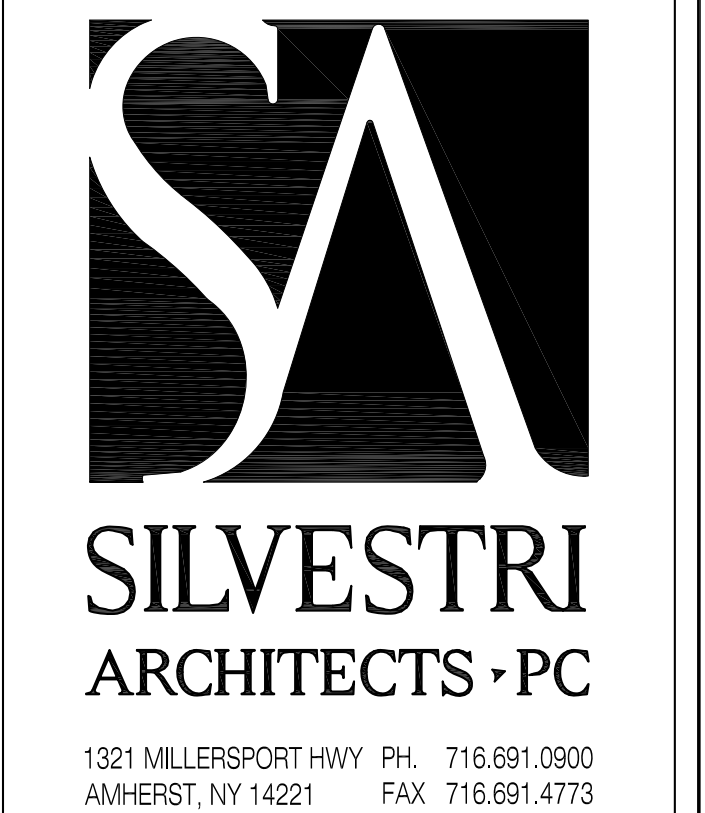
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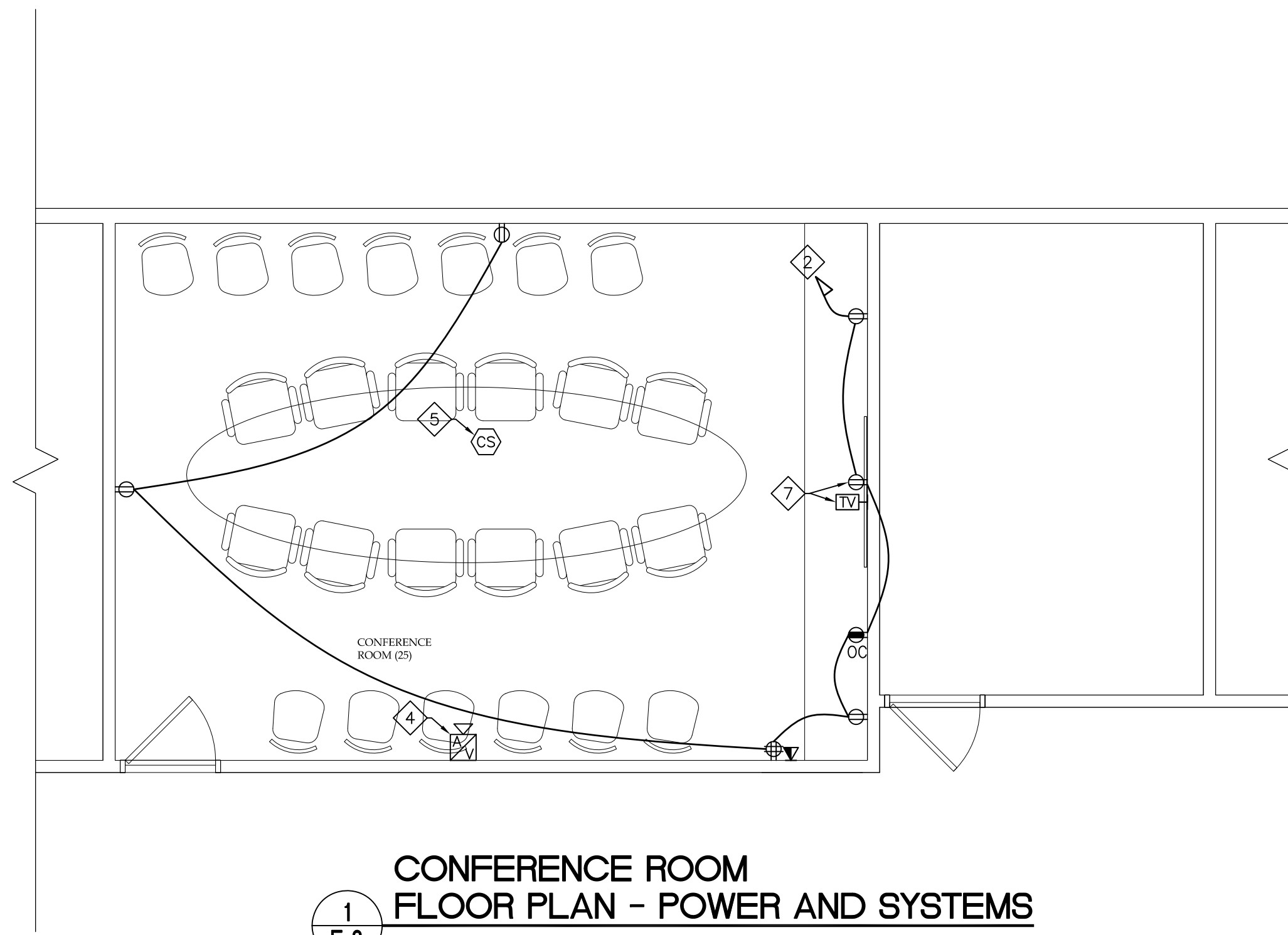
SEAL:

TITLE:
ELECTRICAL DETAILS

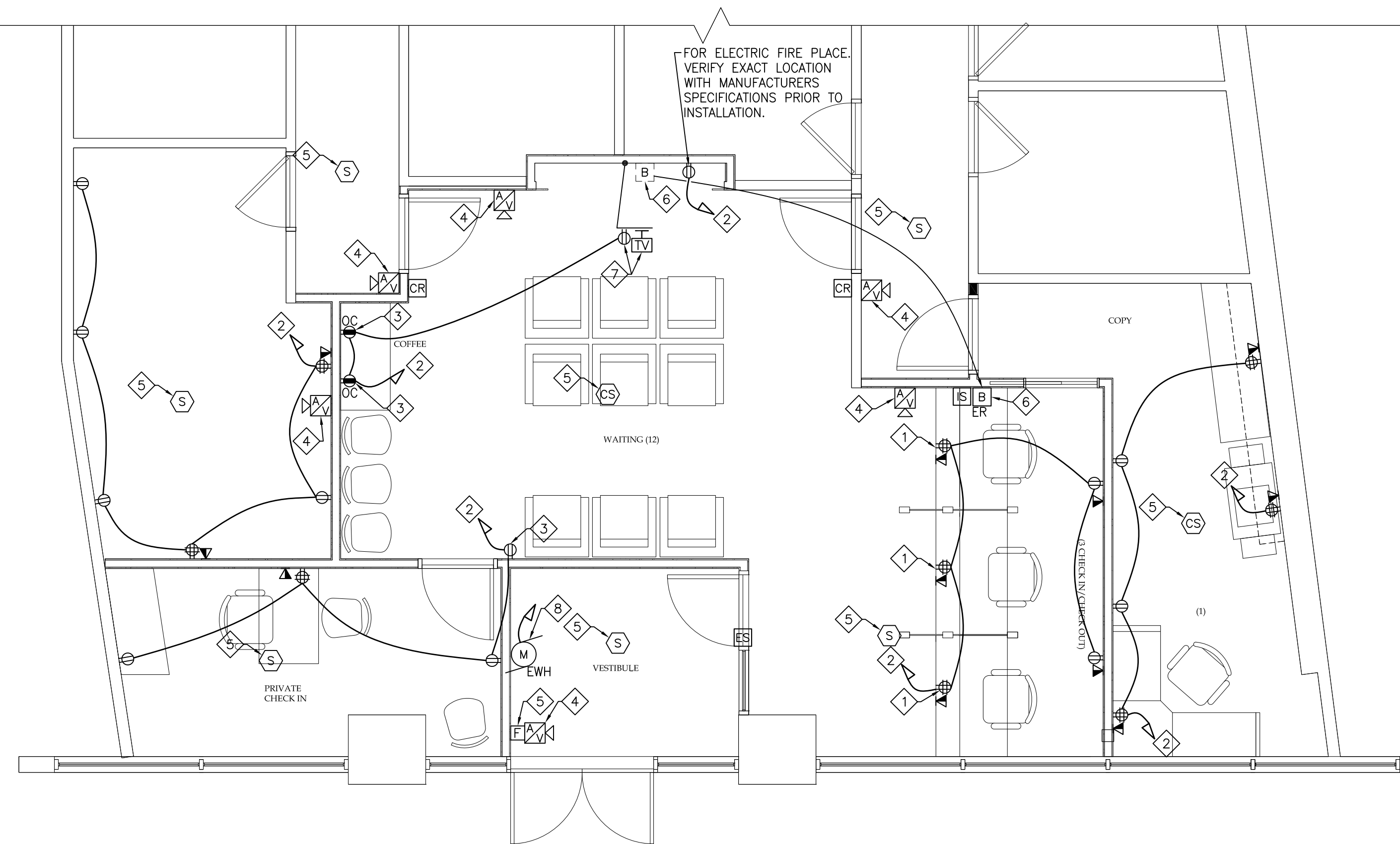


SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: E-2



1 CONFERENCE ROOM FLOOR PLAN - POWER AND SYSTEMS
 E-3 SCALE: 1/4" = 1'-0"



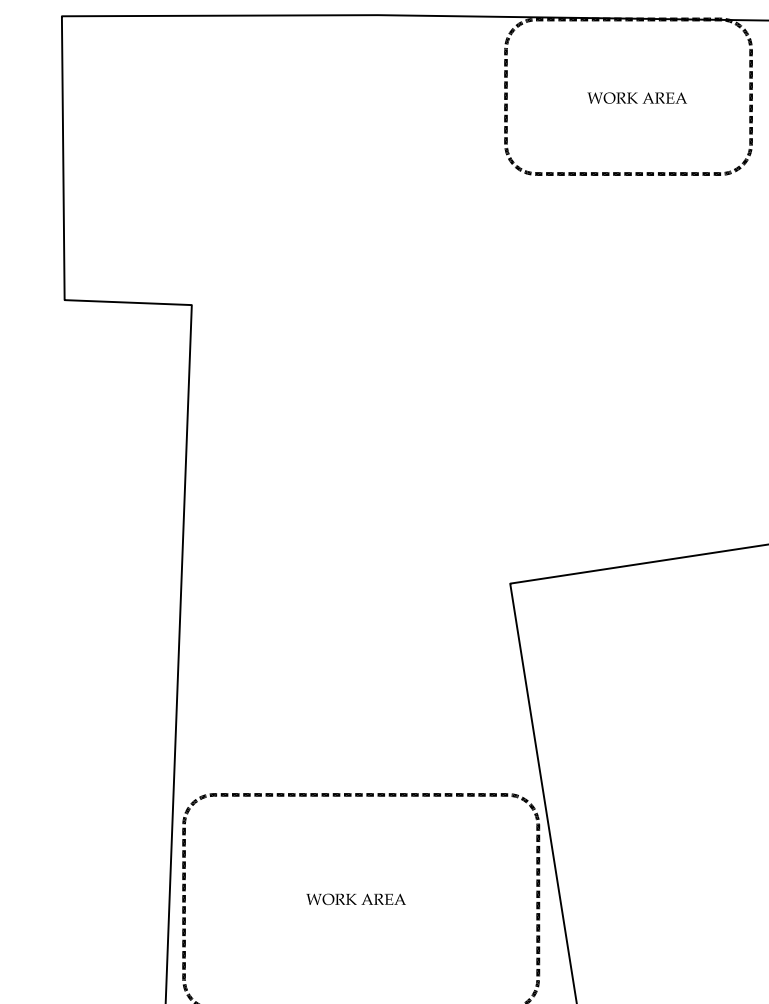
2 FLOOR PLAN - POWER AND SYSTEMS
 E-3 SCALE: 1/4" = 1'-0"

GENERAL POWER NOTES:

- A. WIRING NOT SHOWN FOR CLARITY.
- B. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.
- C. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE. PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.
- D. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.
- E. ENSURE ALL SMOKE AND HEAT DETECTORS ARE PLACED A MINIMAL DISTANCE OF 3'-0" FROM HVAC SUPPLY / RETURN AIR GRILLS.
- F. IF, AT ANY POINT, A CIRCUIT IS OVERLOADED AND THERE IS NO SPACE IN THE EXISTING PANEL, E.C. SHALL REMOVE (3) EXISTING 20A/1P CIRCUIT BREAKERS AND REPLACE WITH (1) 100A/3P CIRCUIT BREAKER. THIS BREAKER SHALL FEED A NEW 208/120V, 3ø, 100A, 42kAIC, 30 SPACE PANEL NEXT TO EXISTING PANEL. FEED NEW PANEL WITH 4#1 ALU, 1#6G ALU. IN 1-1/2" C. COORDINATE EXACT LOCATION OF NEW PANEL WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE (3) 20A/1P CIRCUIT BREAKERS TO RE-FEED BRANCH CIRCUITS REMOVED FROM EXISTING PANEL. EXTEND WIRING AND CONDUIT AS NECESSARY.

ELECTRICAL POWER KEYNOTES:

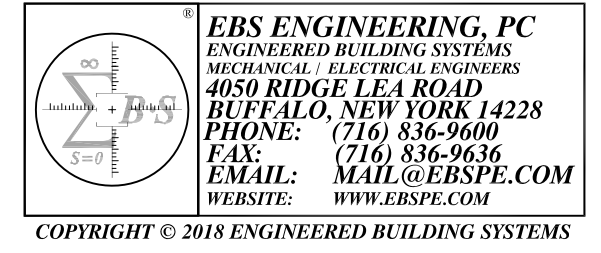
- 1. INSTALL DATA AND POWER RECEPTACLES IN FRONT DESK MILLWORK. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.
- 2. WIRE RECEPTACLE TO NEAREST 120V CIRCUIT. EXTEND WIRING AS NECESSARY & UPDATE EXISTING PANEL BOARD SCHEDULE.
- 3. RECEPTACLE SHALL BE TAMPER-PROOF.
- 4. WIRE FIRE ALARM AUDIO/VISUAL STROBE TO NEAREST EXISTING NOTIFICATION APPLIANCE CIRCUIT.
- 5. WIRE FIRE ALARM DEVICE TO CLOSEST EXISTING SIGNAL LINE CIRCUIT SERVING AREA.
- 6. REMOVE EXISTING NOTIFICATION BELL AND RELOCATE AS SHOWN. EXTEND EXISTING WIRING AND CONDUIT TO ACCOMMODATE NEW LOCATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 7. COORDINATE EXACT LOCATION AND HEIGHT OF TELEVISION OUTLET WITH G.C. PRIOR TO INSTALLATION.
- 8. CIRCUIT ELECTRIC WALL HEATER (EWH) TO DEDICATED 208V CIRCUIT IN EXISTING PANEL (NOT SHOWN). PROVIDE NEW 20A/2P CIRCUIT BREAKER, MATCH EXISTING KAIC. UPDATE EXISTING PANEL BOARD SCHEDULE. IF NO SPACE IS AVAILABLE IN EXISTING PANEL, E.C. SHALL REMOVE (3) EXISTING 20A/1P CIRCUIT BREAKERS AND REPLACE WITH (1) 100A/3P CIRCUIT BREAKER. THIS BREAKER SHALL FEED A NEW 208/120V, 3ø, 100A, 42kAIC, 30 SPACE PANEL NEXT TO EXISTING PANEL. FEED NEW PANEL WITH 4#1 ALU, 1#6G ALU. IN 1-1/2" C. COORDINATE EXACT LOCATION OF NEW PANEL WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE (3) 20A/1P CIRCUIT BREAKERS TO RE-FEED BRANCH CIRCUITS REMOVED FROM EXISTING PANEL. EXTEND WIRING AND CONDUIT AS NECESSARY.



3 KEY PLAN
 E-3 SCALE: N.T.S.

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ISSUE:
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SA PROJECT TEAM: PRINCIPAL P. Silvestri
 PROJ. ARCH. _____ DRAFTER _____
 JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE: FLOOR PLAN - POWER & SYSTEMS

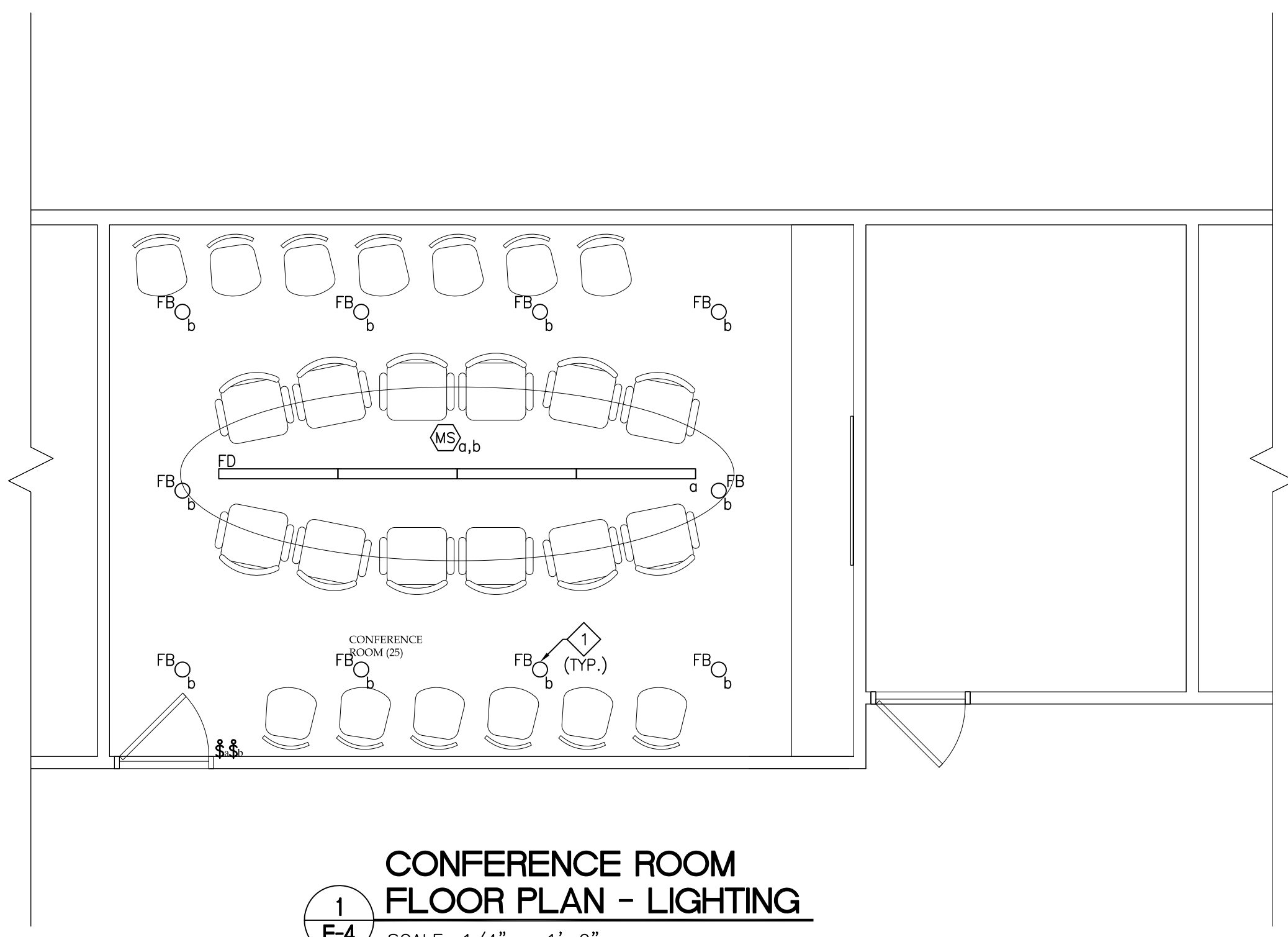


SILVESTRI ARCHITECTS · PC

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DRAWING #: E-3



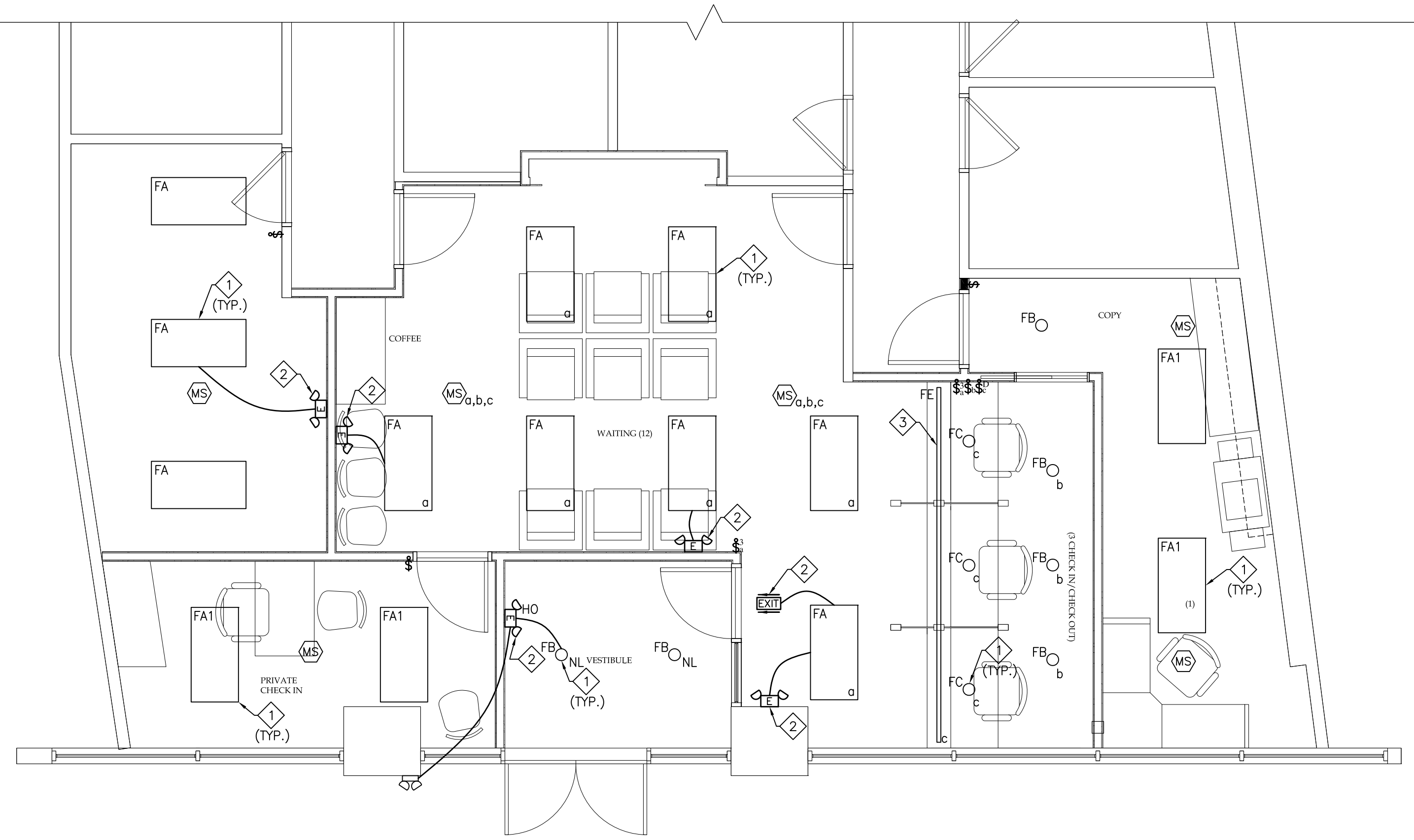
1 CONFERENCE ROOM FLOOR PLAN - LIGHTING
 E-4 SCALE: 1/4" = 1'-0"

GENERAL LIGHTING NOTES:

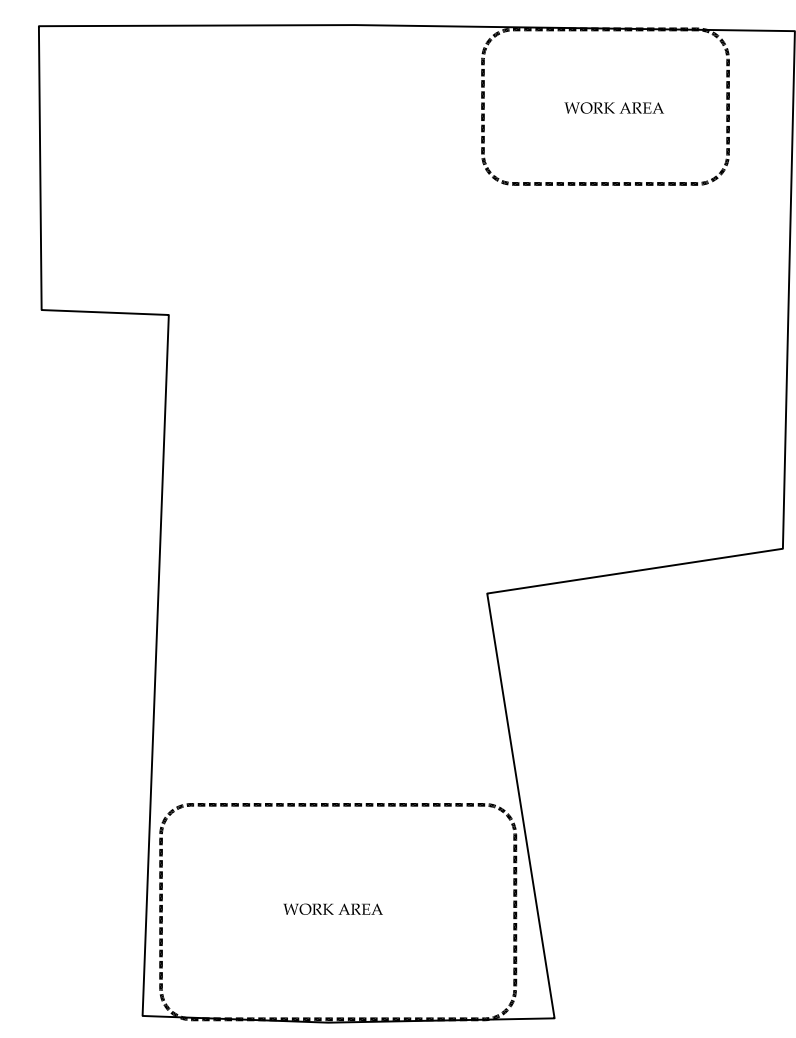
- A. WIRING NOT SHOWN FOR CLARITY.
- B. IF NO LIGHTING CONTROL IS INDICATED ON LUMINAIRE(S), LIGHTING IN ROOM SHALL BE CONTROLLED BY THE LOCAL SWITCHING.
- C. ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING THE AREA.
- D. VERIFY ALL HEIGHTS OF PENDANT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
- E. COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH MECHANICAL DUCT WORK AND SPRINKLER HEADS/PIPING. NOTIFY ARCHITECT OF ANY LOCATIONS WHERE CONFLICT MAY OCCUR.

LIGHTING KEYNOTES: <#

- 1. EXTEND EXISTING LIGHTING CIRCUIT SERVING AREA TO NEW LUMINAIRE & CIRCUIT TO SWITCH AS SHOWN
- 2. CIRCUIT EXIT SIGN/EMERGENCY WALL PACK AHEAD OF LOCAL SWITCHING.
- 3. INSTALL LED FLEXIBLE STRIP LIGHT IN FRONT DESK MILLWORK. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER DETAILS. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR A 100% COMPLETE INSTALLATION.

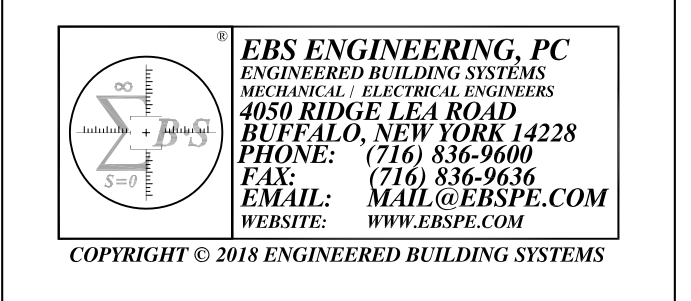


2 FLOOR PLAN - LIGHTING
 E-4 SCALE: 1/4" = 1'-0"



3 KEY PLAN
 E-4 SCALE: N.T.S.

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TITLE: FLOOR PLAN - LIGHTING



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SA JOB #: 14118.01 DATE: 05-22-18

DRAWING #: E-4

WIRING DEVICES

- A. **GENERAL:**
1. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED WHICH ARE UL LISTED AND WHICH COMPLY WITH NEMA WD 1 AND OTHER APPLICABLE UL AND NEMA STANDARDS.
 2. WIRING DEVICE COLOR SHALL BE SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED.
 3. PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
 - a. FINISHED AREAS: THERMOPLASTIC – COLOR TO MATCH DEVICE.
 - b. UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST METAL, AS APPROPRIATE FOR THE TYPE OF BOX.
 - c. EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF, CROUSE-HINDS "WLD" FOR DUPLEX RECEPTACLES AND "WLRs" FOR SINGLE RECEPTACLES OR EQUAL.
 - d. TELEPHONE, COMMUNICATION, AND SIGNAL OUTLET PLATES, SHALL MATCH THOSE USED FOR RECEPTACLES AND SWITCHES. ALL OUTLET AND/OR JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THIS CONTRACTOR.
 - e. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVERPLATE.
 3. LOCATE SWITCHES AND WALL SWITCH SENSORS AT A MAXIMUM HEIGHT OF 4'-0" A.F.F., MEASURED TO CENTER OF BOX, OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS) UNLESS OTHERWISE INDICATED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL. INSTALL ALL SWITCHES ON STRIKE SIDE OF DOOR.
 4. LOCATE RECEPTACLES AT A MINIMUM HEIGHT OF 1'-6" A.F.F., MEASURED TO CENTER OF BOX, OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS NOTED OTHERWISE. THE LONG DIMENSION OF RECEPTACLES SHALL BE VERTICAL.
 5. ALL WIRING DEVICES SHALL BE INSTALLED NEATLY AND PARALLEL WITH BUILDING LINES.

- B. **SUBMITTALS:**
1. SUBMIT DEVICE PRODUCT DATA SHEETS IDENTIFYING MANUFACTURE AND MODEL NUMBERS.

- C. **RECEPTACLES:**
1. PROVIDE NEMA CONFIGURATION 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 20 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 2. STANDARD RECEPTACLES SHALL BE SPECIFICATION GRADE. RECEPTACLES LOCATED IN DWELLINGS SHALL BE TAMPER-RESISTANT TYPE.
 3. GF RECEPTACLES SHALL BE SPECIFICATION GRADE. GF RECEPTACLES LOCATED IN DWELLINGS SHALL BE TAMPER-RESISTANT TYPE.
 4. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED FOR EQUIPMENT SUPPLIED BY OTHERS.
 5. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
 7. PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT OF ABOVE DESCRIPTIONS.
 8. ACCEPTABLE MANUFACTURES INCLUDED EATON/ARROW HART, LEGRAND (P&S), HUBBELL OR LEVITON. ALL DEVICES SELECTED FOR PROJECT SHALL BE SUPPLIED BY THE SAME MANUFACTURE.

- D. **WALL SWITCHES:**
1. PROVIDE SINGLE-POLE, THREE-WAY, AND FOUR-WAY 20A, 120/277 VOLT HEAVY-DUTY SPECIFICATION GRADE DEVICES WITH COPPER ALLOY CONTACT ARM, HEAVY DUTY BUMPER PADS FOR QUIET, SMOOTH OPERATION, HIGH STRENGTH THERMOPLASTIC POLYCARBONATE TOGGLE, AND SILVER ALLOY CONTACTS.
 2. ACCEPTABLE MANUFACTURES INCLUDE EATON/ARROW HART, LEGRAND (P&S), HUBBELL, LUTRON OR LEVITON. ALL DEVICES SELECTED FOR PROJECT SHALL BE SUPPLIED BY THE SAME MANUFACTURE.

- E. **WALL DIMMER / SWITCHES:**
1. PROVIDE SINGLE-POLE, THREE-WAY 120/277 VOLT SPECIFICATION GRADE 0-10V LED DIMMER DEVICES WITH THERMOPLASTIC POLYCARBONATE CONSTRUCTION, SEPARATE ON/OFF CONTROL AND SLIDE ADJUSTER FOR DIMMING, FOR USE WHEN SERVING LED FIXTURES WITH 0-10V DIMMING DRIVERS.
 2. PROVIDE SINGLE-POLE, THREE-WAY 120/277 VOLT RESIDENTIAL GRADE ELECTRONIC LOW-VOLTAGE (ELV) AND/OR CFL-LED COMPATIBLE DIMMER DEVICES WITH THERMOPLASTIC POLYCARBONATE CONSTRUCTION, TOGGLE/ROCKER PADDLE WITH SEPARATE SLIDE ADJUSTER FOR DIMMING, FOR USE IN APARTMENT UNITS ONLY (WHEN APPLICABLE).
 3. ACCEPTABLE MANUFACTURES INCLUDE EATON/ARROW HART, LEGRAND (P&S), HUBBELL, LUTRON OR LEVITON. ALL DEVICES SELECTED FOR PROJECT SHALL BE SUPPLIED BY THE SAME MANUFACTURE.

- F. **AUTOMATIC LIGHTING CONTROL DEVICES:**
1. ALL LIGHTING CONTROL DEVICES MUST BE SELECTED, INSTALLED AND WIRED TO MEET CURRENT LOCAL AND STATE ENERGY CODE REQUIREMENTS. WHEN LOCAL AND STATE CODES ARE NOT APPLICABLE THE 2015 IECC (INTERNATIONAL ENERGY CONSERVATION CODE) SHALL BE APPLIED. ANY DISCREPANCIES BETWEEN THESE DESIGN DOCUMENTS AND CURRENT ENERGY CODES MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BID SUBMISSION.
 2. PROVIDE SINGLE RELAY, DUAL TECHNOLOGY, 120/277 VOLT, WALL SENSOR SWITCH, UNLESS OTHERWISE INDICATED IN DESIGN DOCUMENTS. BASIC PROGRAMMING SHALL INCLUDE MANUAL ON, AUTOMATIC OFF WITH THE OCCUPANCY SENSOR TIME DELAY SET FOR 15 MINUTES. REMAINING PROGRAMMING OPTIONS SHALL BE FACTORY DEFAULT UNLESS OTHERWISE INDICATED OR REQUIRED.
 3. PROVIDE SINGLE ZONE, DUAL TECHNOLOGY 120/277V CEILING MOUNT OCCUPANCY SENSOR WITH 360 DEGREE VIEWING ANGLE, UNLESS OTHERWISE INDICATED IN DESIGN DOCUMENTS. PROVIDE ALL REQUIRED POWER PACKS, SLAVE POWER PACKS, CONTROL UNITS, RELAYS, BACKBOXES, MOUNTING PLATES AND OTHER EQUIPMENT NECESSARY FOR PROPER SYSTEM OPERATION. BASIC PROGRAMMING SHALL INCLUDE OCCUPANCY SENSOR TIME DELAY SET FOR 15 MINUTES. REMAINING PROGRAMMING OPTIONS SHALL BE FACTORY DEFAULT UNLESS OTHERWISE INDICATED.
 4. PROVIDE SINGLE ZONE, DUAL TECHNOLOGY 120/277V CEILING MOUNT DIMMING AND PHOTOCONTROL OCCUPANCY SENSOR WITH 360 DEGREE VIEWING ANGLE, UNLESS OTHERWISE INDICATED IN DESIGN DOCUMENTS. PROVIDE ALL REQUIRED POWER PACKS, SLAVE POWER PACKS, CONTROL UNITS, RELAYS, BACKBOXES, MOUNTING PLATES AND OTHER EQUIPMENT NECESSARY FOR PROPER SYSTEM OPERATION. BASIC PROGRAMMING SHALL INCLUDE OCCUPANCY SENSOR TIME DELAY SET FOR 15 MINUTES AND DIMMING SET TO 3V. REMAINING PROGRAMMING OPTIONS SHALL BE FACTORY DEFAULT UNLESS OTHERWISE INDICATED.
 5. ACCEPTABLE MANUFACTURERS INCLUDE SENSOR SWITCH, WATTSTOPPER OR APPROVED EQUAL. ALL DEVICES SELECTED FOR PROJECT SHALL BE SUPPLIED BY THE SAME MANUFACTURE.

LIGHTING

- A. **GENERAL:**
1. SEE SHEET E-1 FOR PROJECT LIGHT FIXTURE SPECIFICATIONS.
 2. ALL LIGHTING FIXTURES SHALL BE UL LISTED AND BARE THE UL LABEL OF APPROVAL
 3. SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS UNLESS OTHERWISE INDICATED.
 4. INSTALL LAMPS IN EACH LUMINAIRE AS NEEDED.
 5. FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE.
 6. WHERE FIXTURES ARE INSTALLED ON DRYWALL CEILINGS, THEY SHALL BE SUPPORTED FROM THE CEILING FRAMING SYSTEM OR THE BUILDING STRUCTURE. SUPPORT FROM DRYWALL IS NOT ACCEPTABLE.
 7. NFPA 70 REQUIRES MINIMUM SUPPORT FOR FIXTURES. REFER TO "LAY-IN CEILING LIGHTING FIXTURES SUPPORTS" PARAGRAPH BELOW FOR MORE SPECIFIC SUPPORT REQUIREMENTS AND FOR REQUIREMENTS EXCEEDING CODE MINIMUMS. FOR PROJECTS REQUIRING SEISMIC DESIGN, ADDITIONAL SUPPORTS, AND RESTRAINING DEVICES BEYOND THOSE SPECIFIED HERE MAY BE REQUIRED.

- B. **SUBMITTALS:**
1. SUBMIT LIGHT FIXTURE DATA SHEETS IDENTIFYING MANUFACTURE AND MODEL NUMBERS.

- C. **LAY-IN CEILING LIGHTING FIXTURES SUPPORTS:**
1. USE GRID AS A SUPPORT ELEMENT.
 2. INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH FIXTURE. LOCATE NOT MORE THAN 6 INCHES FROM LIGHTING FIXTURE CORNERS.
 3. SUPPORT CLIPS: FASTEN TO LIGHTING FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION.
 4. FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4-INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES.

- D. **SUSPENDED LIGHTING FIXTURE SUPPORT:**
1. PENDANTS AND RODS: WHERE LONGER THAN 48 INCHES (1200 MM), BRACE TO LIMIT SWINGING.
 2. STEM-MOUNTED, SINGLE-UNIT FIXTURES: SUSPEND WITH TWIN-STEM HANGERS.
 3. CONTINUOUS ROWS: USE TUBING OR STEM FOR WIRING AT ONE POINT AND TUBING OR ROD FOR SUSPENSION FOR EACH UNIT LENGTH OF FIXTURE CHASSIS, INCLUDING ONE AT EACH END.
 4. DO NOT USE GRID AS SUPPORT FOR PENDANT LUMINAIRES. CONNECT SUPPORT WIRES OR RODS TO BUILDING STRUCTURE.

- E. **AIR-HANDLING LIGHTING FIXTURES:** INSTALL WITH DAMPERS CLOSED AND READY FOR ADJUSTMENT.

- F. IMMEDIATELY PRIOR TO OCCUPANCY, DAMP CLEAN ALL DIFFUSERS, GLASSWARE, FIXTURE TRIMS, REFLECTORS, LAMPS AND REPLACE BURNED OUT LAMPS.

PANELBOARDS

- A. **GENERAL:**
1. MAIN DISTRIBUTION PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT AT THE TERMINALS.
 2. PANELBOARDS SHALL BE LABELED WITH PHENOLIC NAMEPLATES INSCRIBED AS INDICATED ON THE DRAWINGS. PROVIDE ARC FLASH ANALYSIS WITH WARNING LABELS AFFIXED TO PANELBOARDS AS REQUIRED BY NFPA 70E.
 3. PANELBOARDS SHALL BE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON THE DRAWINGS.
 4. PANELBOARDS SHALL HAVE COPPER OR ALUMINUM (SEE #7 BELOW) BUS WITH BOLTED BREAKERS, FULLY RATED NEUTRAL BUS AND FULLY RATED INTERRUPTING CAPACITY; NO SERIES RATED SYSTEM PERMITTED. PROVIDE WITH BLANK END WALLS (NO PRE-PUNCHED BOXES), DOOR-IN-DOOR OR HINGED TRIM, INTERRUPTING RATING AS CALLED FOR, 24 CIRCUIT MINIMUM PANEL SIZE, FLUSH OR SURFACE MOUNTED AS INDICATED.
 5. PANELS KNOWN AS "LOAD CENTERS" ARE UNACCEPTABLE EXCEPT FOR USE IN APARTMENT UNITS.
 6. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION.
 7. ALL BUS BARS SHALL BE RECTANGULAR SOLID COPPER. ALUMINUM BUS BARS ARE ACCEPTABLE WHEN ALUMINUM FEEDERS ARE SPECIFIED.
 8. SPACES, AS IDENTIFIED IN PANEL SCHEDULES, FOR FUTURE PROTECTIVE DEVICES SHALL INCLUDE BUS AND SUPPORT.
 9. INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR. APARTMENT UNIT LOAD CENTERS SHALL BE INSTALLED AT HEIGHTS TO MEET ADA REQUIREMENTS.
 10. ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE.
 11. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.
 12. ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT NUMBERS ON THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE, AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL.
 13. ALL BREAKERS SHALL BE BOLT-ON TYPE. PUSH-ON TYPE ARE ONLY ACCEPTABLE FOR USE IN "LOAD CENTERS".
 14. GFCI CIRCUIT BREAKERS: SINGLE-POLE AND TWO-POLE CONFIGURATIONS WITH CLASS A GROUND-FAULT PROTECTION (6-MA TRIP).
 15. GROUND-FAULT EQUIPMENT PROTECTION (GFEPP) CIRCUIT BREAKERS: CLASS B GROUND-FAULT PROTECTION (30-MA TRIP).
 16. ARC-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKERS: COMPLY WITH UL 1699; 120/240-V, SINGLE-POLE CONFIGURATION.
 17. PROVIDE (3) SPARE 1" CONDUITS INTO ACCESSIBLE CEILING SPACE WHERE PANELS ARE FLUSH-MOUNTED. PROVIDE REMOVABLE CAP OR PLUG AT CONDUIT AND ABOVE CEILING.
 18. FOR EXISTING PANELBOARDS, RELABEL EXISTING PANELBOARD DIRECTORIES TO REFLECT ALL BRANCH CIRCUIT REVISIONS; PROVIDE TYPEWRITTEN WITH ROOM NUMBERS, FUNCTION, ETC. TO POSITIVELY IDENTIFY EACH BRANCH CIRCUIT.
 19. FOR EXISTING PANELBOARDS, PROVIDE NEW QUICK MAKE, QUICK BREAK, THERMAL MAGNETIC, TOGGLE MECHANISM, MOLDED CASE CIRCUIT BREAKERS AS RECOMMENDED BY EQUIPMENT MANUFACTURER. PROVIDE AMPACITY AND POLES AS INDICATED ON PLANS WITH APPROPRIATE AMPERE INTERRUPTING RATING TO MATCH EXISTING EQUIPMENT. MULTIPOLE BREAKERS SHALL HAVE COMMON TRIP. MAKE TO MATCH EXISTING PANELBOARDS.

- B. **SUBMITTALS:**
1. SUBMIT EQUIPMENT DATA SHEETS INCLUDING CIRCUIT BREAKERS AND ALL ASSOCIATED ACCESSORIES. INFORMATION SHALL INCLUDE EQUIPMENT MANUFACTURE, MODEL NUMBERS AND APPLICABLE SHOP DRAWINGS.

FIRE ALARM SYSTEM SPECIFICATION

- A. **GENERAL:**
1. THE FIRE ALARM SYSTEM IS EXISTING. FIELD VERIFY SYSTEM TYPE, MANUFACTURE AND MODEL. NEW DEVICES SHOWN IN DESIGN DOCUMENTS MUST BE COMPATIBLE WITH EXISTING SYSTEM.

- B. **COMPLIANCE:**
1. SYSTEM AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE STANDARDS AND REQUIREMENTS OF THE NFPA INCLUDING:
 - a. NFPA 70 – INCLUDING ARTICLE 760 (NEC)
 - b. NFPA 72 – COMPLETE
 - c. NFPA 101
 - d. APPLICABLE REQUIREMENTS OF THE LOCAL TOWN
 2. ALL EQUIPMENT SHALL BE "UL" LISTED UNDER THE FIRE PROTECTION DIRECTORY AND SUPPLEMENTS.

- C. **INSTALLATION:**
1. STEEL OUTLET OR METAL BACK BOXES SHALL BE PROVIDED FOR ALL COMPONENTS OF THE SYSTEM.
 2. ALL WIRING FOR THIS SYSTEM SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE AND FINISHES.
 3. "UL" LISTED AND APPROVED FIRE ALARM CABLE MAY BE EMPLOYED FOR THE COMPLETE SYSTEM AND SHALL BE FULLY CONCEALED. FIRE ALARM CABLE SHALL BE "PLENUM" RATED CONSISTING OF #14 (MINIMUM SIZE) COPPER CONDUCTORS WITH HYPALON OR TEFLON INSULATION AND JACKET. THE OUTER JACKET SHALL BE RED IN COLOR. WHERE EXPOSED, FIRE ALARM CABLE SHALL BE INSTALLED IN EMT.
 4. FIRE ALARM WIRING SYSTEM SHALL BE CONFIGURED AS CLASS "B".
 5. PROVIDE GALVANIZED CHASE NIPPLE (OR SIMILAR PLASTIC FITTING) WHERE CABLES ENTER OUTLET BOXES, BACKBOXES, PANELS ETC.

D. CONTROL PANEL

1. EXISTING.

E. DEVICES:

1. PULLSTATIONS SHALL BE DUAL ACTION, RED IN COLOR LABELED "FIRE".
2. HORN/STROBE (AUDIO/VISUAL) SHALL BE RED IN COLOR LABELED "FIRE".
3. STROBE DEVICES (VISUAL) SHALL BE RED IN COLOR LABELED "FIRE".
4. WEATHER-PROOF HORN/STROBE (AUDIO/VISUAL) SHALL BE RED IN COLOR LABELED "FIRE".
5. HORN DEVICES LOCATED IN BEDROOMS / SLEEPING UNITS HAVE BE LOW FREQUENCY TYPE WITH A 520hz TONE.
6. SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH STANDARD BASE UNLESS OTHERWISE INDICATED.
7. HEAT DETECTORS SHALL BE 135° FIXED TEMPERATURE WITH STANDARD BASE UNLESS OTHERWISE INDICATED.
8. CO DETECTORS SHALL HAVE AN AN AUDIBLE BASE PROVIDING A TEMPORAL 4 NOTIFICATION TONE.
9. SEE 'FIRE ALARM SYSTEM SCHEDULE' ON SHEET E-1 FOR FURTHER INFORMATION ON SYSTEM DEVICES.

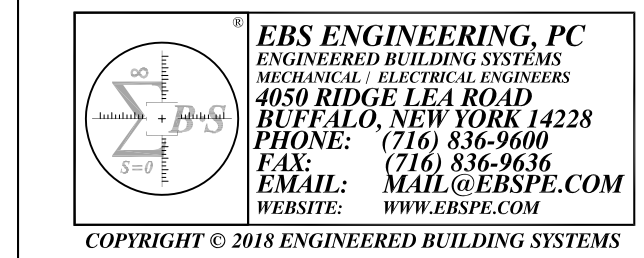
F. COMMISSIONING

1. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN THE PRESENCE OF: THE OWNER'S REPRESENTATIVE, CITY REPRESENTATIVE, THE ARCHITECT/ENGINEER, THE CONTRACTOR AND THE FACTORY AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER. UPON COMPLETION OF A SUCCESSFUL TEST, THE CONTRACTOR SHALL SO CERTIFY, IN WRITING, TO THE JURISDICTION HAVING AUTHORITY, OWNER, ARCHITECT AND THE ENGINEER.
2. THE CONTRACTOR SHALL WARRANTY THE COMPLETED FIRE ALARM SYSTEM EQUIPMENT, WIRING AND INSTALLATION, TO BE FREE FROM INHERENT DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE CERTIFIED TEST.

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SA PROJECT TEAM: PRINCIPAL P. Silvestri
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JOB CAPT. _____ INTERIORS _____

SEAL:

TITLE:
ELECTRICAL SPECIFICATIONS



SA JOB #: **14118.01** DATE: **05-22-18**

DRAWING #: **E-6**