

BUILDING RENOVATION

ATF DAYTON FIELD OFFICE

RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ARCHITECT

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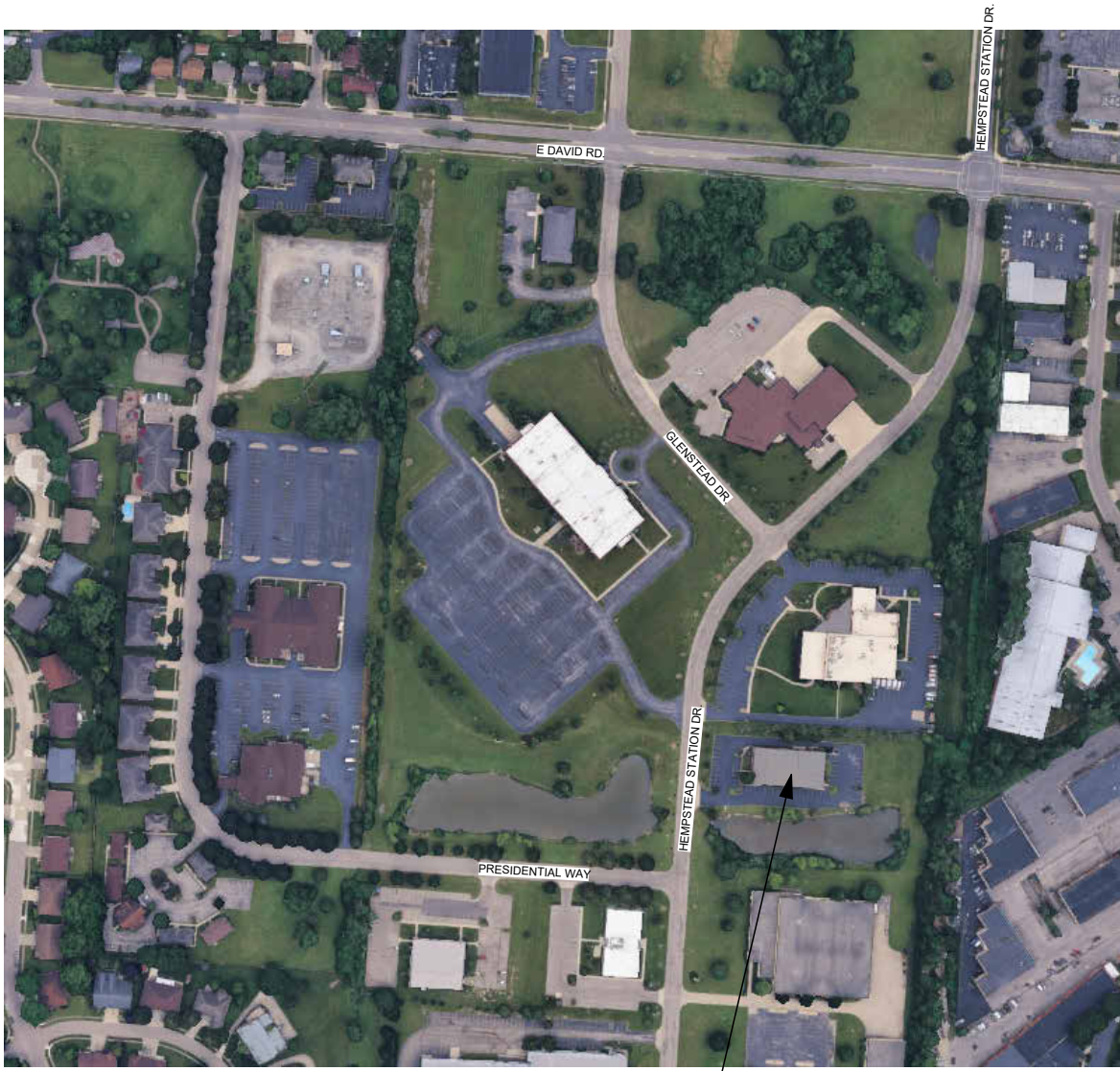
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TECHNOLOGY CONSULTANT

BCL Enterprise

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Liberty Township, Ohio 45044
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VICINITY MAP



CODE INFORMATION

(OBC 2024) (OEBc 2024)

2024 OHIO EXISTING BUILDING CODE (OEBc)

COMPLIANCE METHOD

SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD
COMPLIANCE WITH OEBc SECTIONS 302-309 AND CHAPTER 5.

2024 OHIO BUILDING CODE (OBC)

PROJECT DESCRIPTION

PROJECT CONSISTS OF A PARTIAL RENOVATION OF 3,464 SF OF AN EXISTING 10,315 SF OFFICE BUILDING FOR THE FEDERAL DEPARTMENT OF ALCOHOL TOBACCO FIREARMS AND EXPLOSIVES (ATF).

USE GROUP CLASSIFICATION

OBC (302) USE GROUP = B - BUSINESS - OFFICE (NO CHANGE)
S-2: STORAGE - LOADING DOCK/
VEHICLE BAY (NO CHANGE)
NON-SEPARATED MIXED USE

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = IIIB
BUILDING DESCRIPTION = CONCRETE SLAB, MASONRY
BLOCK WALLS, BEARING WALLS,
WOOD TRUSSES.

HEIGHT AND AREA LIMITATIONS

OBC (503) BUILDING AREA AND
HEIGHT ALLOWABLE = B - 3 STORIES/ 19,000 SF - STORY
= S-2 - 3 STORIES/ 26,000 SF - STORY
BUILDING DESCRIPTION ONE STORY (NO CHANGE)
B = 7,988 SF
S-2 = 2,327 SF
TOTAL = 10,315 SF

OCCUPANT LOAD

OBC (1004) ALLOWABLE: S.F. PER OCCUPANT
B (BUSINESS AREAS) = 8545 SF / 150 GROSS = 56 OCCUPANTS ALLOWABLE
S-2 (ACCESSORY STORAGE AREAS) = 1770 SF / 300 GROSS = 5 OCCUPANTS ALLOWABLE
DECLARED OCCUPANT LOAD: B = 56 OCCUPANTS DECLARED
S-2 = 5 OCCUPANTS DECLARED
TOTAL = 61 OCCUPANTS DECLARED

PLUMBING FIXTURES REQUIRED

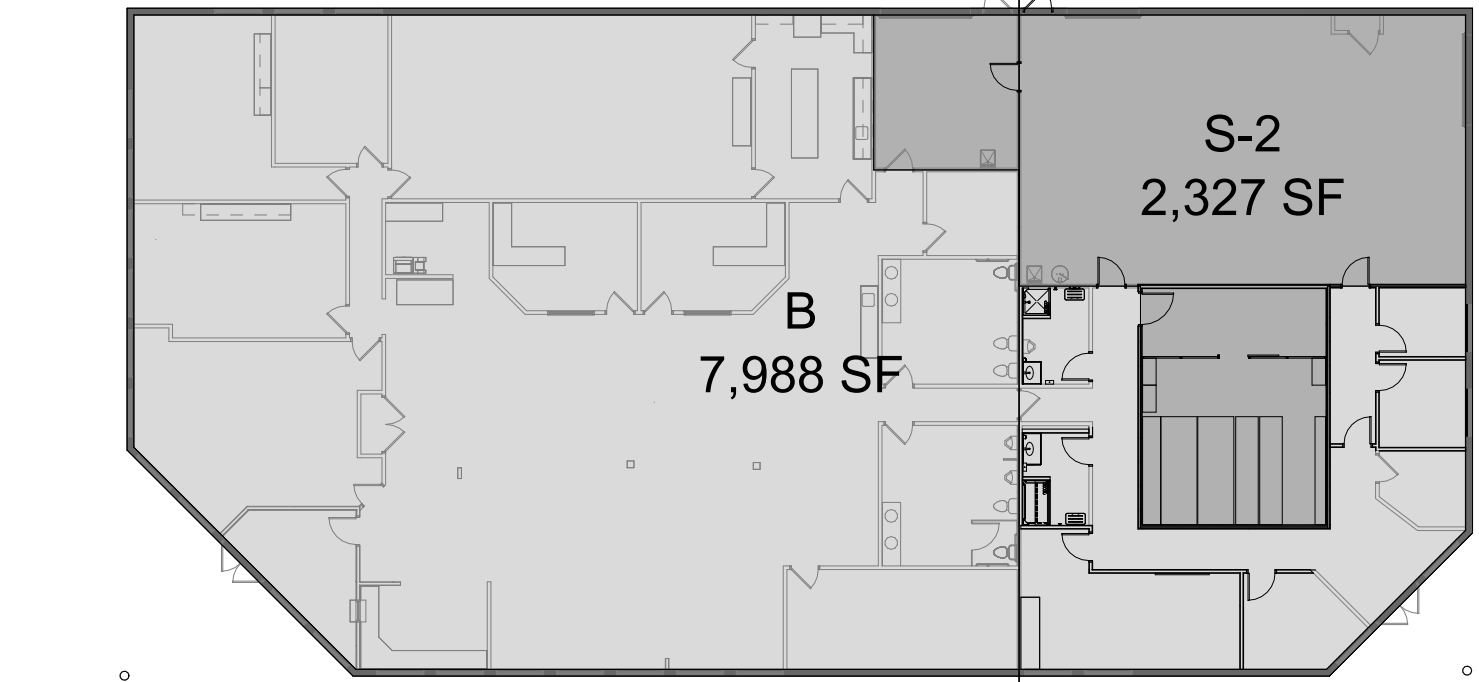
OBC (2902)
REQUIRED B: WC 1 LAVS 1 SHOWERS 0 DF 1 SERVICE SINK 1
S-2: 1 1 0 1 1
TOTAL 2 2 0 1* 1*
PROVIDED 9 6 0 0** 1
(EXISTING NO CHANGE)

* MOST RESTRICTIVE
** OPC 2024 SECTION 410.4 POTABLE DRINKING WATER WILL BE AVAILABLE IN THE
BREAK ROOM AS A SUBSTITUTION FOR ONE REQUIRED DRINKING FOUNTAIN.

FIRE PROTECTION

BUILDING DESCRIPTION : NON SPRINKLERED
BUILDING DOES NOT HAVE A FIRE ALARM SYSTEM.

NO WORK WEST
OF LINE IN THIS
PHASE EXCEPT
FOR BUILDING
SECURITY
RELATED ITEMS.



D4 USE GROUP PLAN
3/64" = 1'-0"

DRAWING INDEX

GENERAL

G0.1 COVER SHEET
G0.2 ARCHITECTURAL SITE PLAN
G0.3 LIFE SAFETY PLAN

ARCHITECTURAL

A0.1 ABBREVIATIONS AND SYMBOLS
A0.2 FINISH SCHEDULES, WALL TYPES AND DETAILS
A0.3 DOOR SCHEDULES & DETAILS
A1.1 DEMOLITION PLAN
A1.2 REFERENCE PLAN
A1.3 DIMENSION PLAN
A2.1 DEMOLITION REFLECTED CEILING PLAN
A2.2 REFLECTED CEILING PLAN
A5.1 INTERIOR ELEVATIONS AND DETAILS

PLUMBING

P0.1 LEGENDS, SCHEDULES & NOTES
P1.0 UNDERGROUND DEMOLITION PLAN
P1.1 1ST FLOOR DEMOLITION PLAN
P2.0 UNDERGROUND NEW WORK PLAN
P2.1 1ST FLOOR NEW WORK PLAN
P3.1 DETAILS
P4.1 SOIL, WASTE, AND VENT DIAGRAM

MECHANICAL

H0.1 LEGENDS, SCHEDULES & NOTES
H0.2 MATERIAL SCHEDULES
H0.3 EQUIPMENT SCHEDULES
H1.1 DEMOLITION PLAN
H2.1 NEW WORK PLAN
H3.1 DETAILS
H3.2 DETAILS
H3.3 DETAILS

ELECTRICAL

E0.1 LEGENDS AND SCHEDULES
E0.2 PANEL SCHEDULES
E1.1 DEMOLITION
E3.1 NEW WORK POWER PLAN

TECHNOLOGY

T0.1 TECHNOLOGY LEGEND
T0.2 TECHNOLOGY LEGEND
T0.3 TECHNOLOGY NOTES
T1.1 FIRST FLOOR COMPOSITE PATHWAY RCP
T1.2 FIRST FLOOR DATA & A/V PLAN
T2.1 FIRST FLOOR SECURITY PLAN
T4.1 IT ROOM 112 ENLARGED AND ELEVATION PLANS
T5.1 COMPOSITE PATHWAY DETAILS
T5.2 DATA DETAILS

SIGNAGE

DID-103 INTERIOR SIGNAGE

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RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ISSUE		
NO.	DATE	DESCRIPTION
08/31/26		FOR CONSTRUCTION

DATE	08/31/26
JOB NO.	4301.01
DRAWN	AHB
CHECKED	TJB

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TITLE
COVER SHEET

SHEET NO.

G0.1

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A

B

C

D

E

F

1

2

3

4

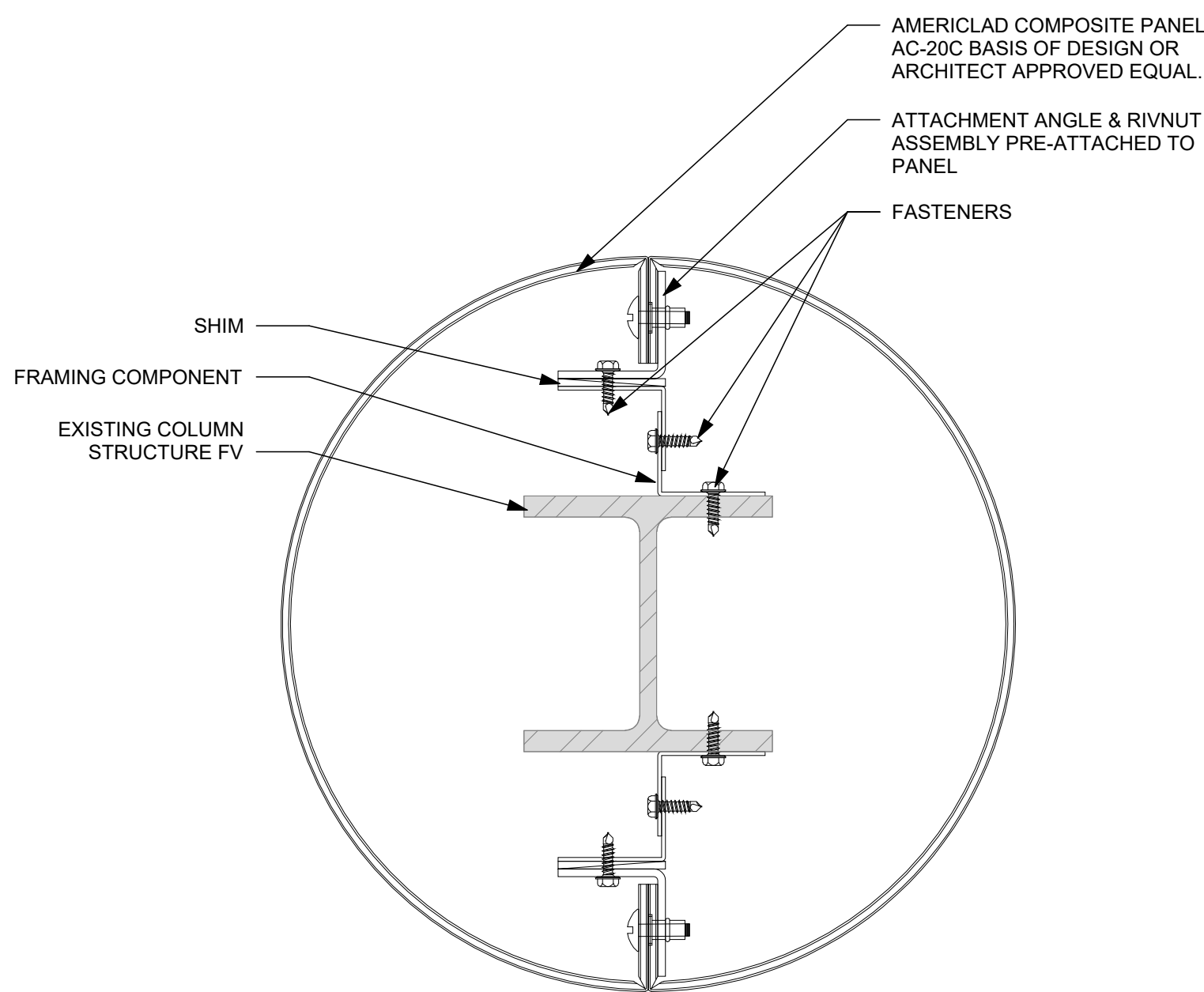
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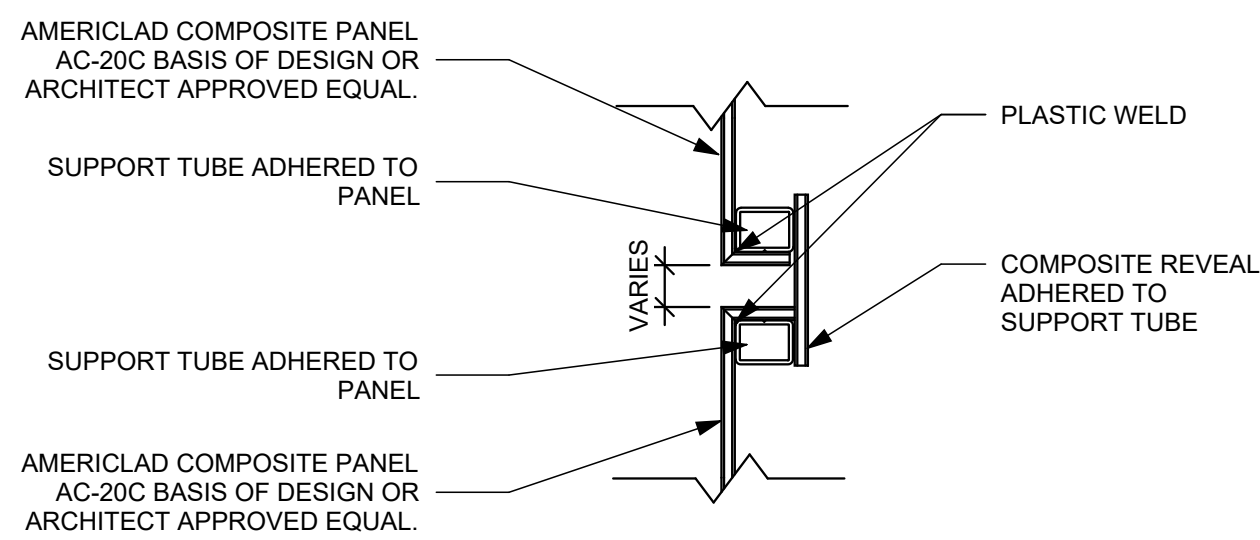
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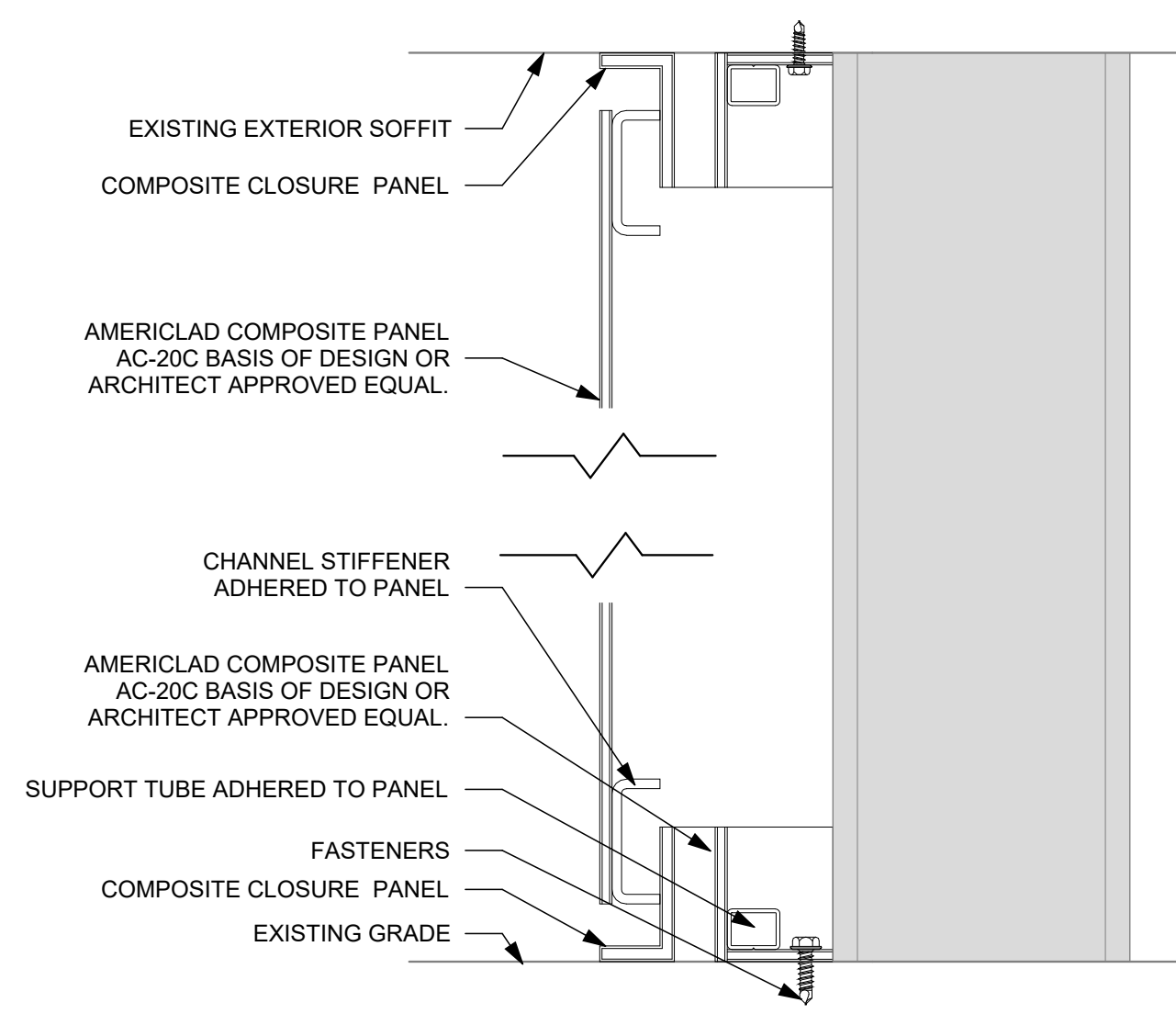
(D1) ARCHITECTURAL SITE PLAN
1/16" = 1'-0"



(F1) COLUMN WRAP DETAIL
1 1/2" = 1'-0"



(F3) COLUMN INTERMEDIATE DETAIL
1 1/2" = 1'-0"



(F5) COLUMN HEAD & BASE DETAIL
1 1/2" = 1'-0"

CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE.
- 1 NEW CONCRETE PAD. REFER TO MEP DRAWINGS FOR MORE INFO.
 - 2 EXISTING ACCESSIBLE PARKING.
 - 3 EXISTING CONDENSING UNIT. REFER TO PME DRAWINGS.
 - 4 EXISTING ACCESSIBLE ROUTE.
 - 5 EXISTING ACCESSIBLE RAMP. NO STRIPES ON RAMP.
 - 6 DEMO EXISTING EIFS COLUMN WRAP AND PREP. FOR NEW COVER. REFER TO DETAILS SHEET G0.2.

A

B

C

D

E

F

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BUILDING RENOVATION
ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

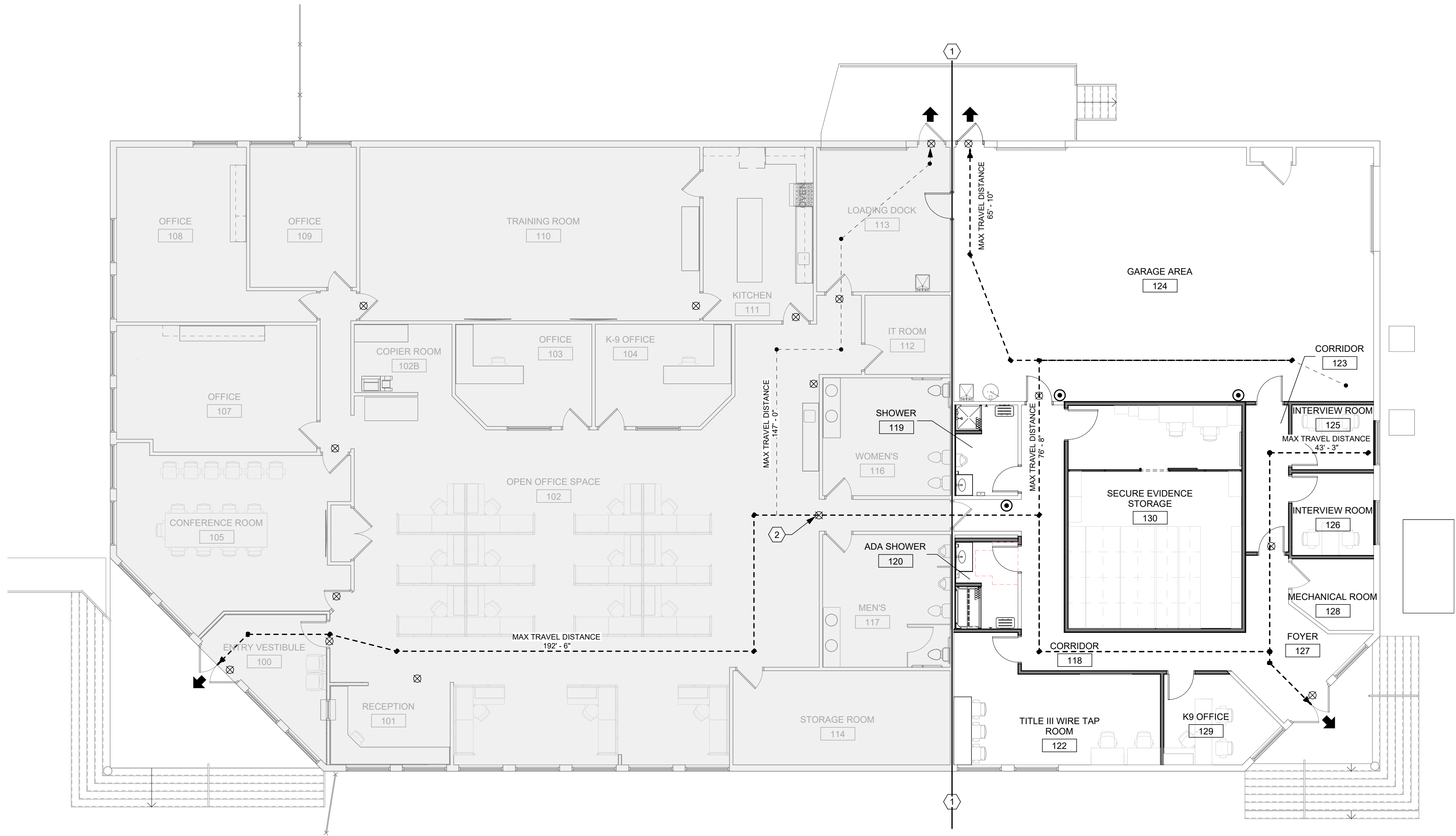
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TITLE ARCHITECTURAL SITE PLAN	

SHEET NO.

G0.2



(F1) LIFE SAFETY PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE.
- 1 NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - 2 PUNCH OUT RIGHT ARROW IN EXISTING EXIT SIGN.

GENERAL NOTES

- ➡ EXIT DISCHARGE
- COMMON PATH OF TRAVEL
- ⊙ FE FIRE EXTINGUISHER
- ⊗ EMERGENCY EGRESS SIGNS

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TITLE LIFE SAFETY PLAN	
SHEET NO.	

G0.3

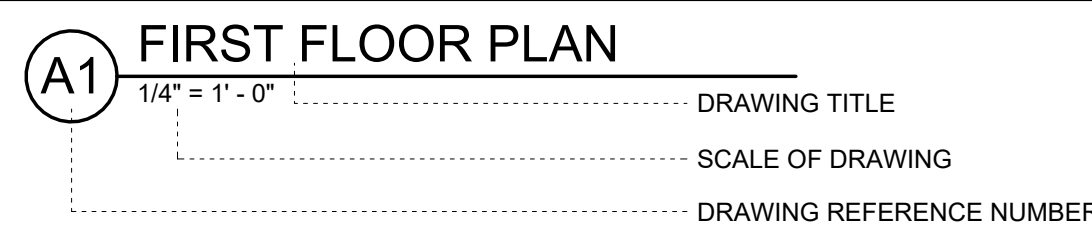
ABBREVIATIONS

SYMBOL		G	
@ & L O E PL	AT AND ANGLE DIAMETER CENTER LINE PLATE	GA GALV GENERAL CONTRACTOR GD GEN GL GROUND GYP Gypsum board GWT glazed wall tile	
ABV A/C AFF AHU AL ALT ANDD ANCH APPROX ARCH ARCHN ATTEN AUTO AVG	ABOVE AIR CONDITIONING ABOVE FINISHED FLOOR AIR HANDLER UNIT ALUMINUM ALTERNATE ANDROZED ANCHOR APPROXIMATELY ARCHITECT OR ARCHITECTURAL ATTENUATED AUTOMATIC AVERAGE	HB HDW HM HORIZ HT HVAC HWD	HOSE BIBB HARDWARE HOLLOW METAL HORIZONTAL HEIGHT HEATING, VENTILATION & AIR CONDITIONING HARDWARE
BLDG BLK BLDG BOT BRG BSMT	BUILDING BLOCK BLOCKING BOTTOM BEARING BASEMENT	ID IN INCL INT INV	INSIDE DIAMETER INCH INCLUDE (D) (ING) INTERIOR INVERT
CAB CB C/C CF CFCI CFOI CG CJ CLG CL CLR CMU CO COLU CONC CONST CONT CPU CY	CABINET CATCH BASIN CENTER TO CENTER CUBIC FOOT CONTRACTOR FURNISH, CONTRACTOR INSTALL CONTRACTOR FURNISH, OWNER INSTALL CORNER GUARD CONTROL JOINT CEILING CLOSET CLEAR CONCRETE MASONRY UNIT CLEAN OUT COLUM CONCRETE CONSTRUCTION CONTINUOUS OR CONTINUE CENTRAL PROCESSING UNIT (COMPUTER) CUBIC YARD	JB JC L LAV LAS LH LL LLV LTL LVR	JUNCTION BOX JANITOR CLOSET LONG LAVATORY POUNDS LEFT HAND LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LINTEL LOUVER
DBL DEMO DF DIA DIM DISP DIV DS DWG DTL	DOUBLE DEMOLISH DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DIVISION DOWNSPOUT DRAWING DETAIL	M MAS MAT MAX MC MECH MFR MH MIL MM MIN MISC MO MTD MTL	MEN OR METER MASONRY MATERIAL MAXIMUM MECHANICAL CONTRACTOR MANUFACTURER MOUNTING HEIGHT, MANHOLE THOUSANDTHS OF AN INCH MILLIMETER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL
EA EC EIFS EJ ELEC ELEV EMERG EQ EQUIP EWC EXIST OR EX EXP EXT	EACH ELECTRICAL CONTRACTOR EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELECTRIC OR ELECTRICAL ELEVATION OR ELEVATOR EMERGENCY EQUAL EQUIPMENT ELECTRIC WATER COOLER EXIST OR EX EXPANSION EXTERIOR	N NC NIC NO NOM NRC NTS	NORTH OR NITROGEN NURSE CALL NOT IN CONTRACT NUMBER OR NITROUS OXIDE NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE
FD FE FEC FF FIN FLR FND FRIT FT FTG FUR FV FOW	FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH OR FINISHED FLOOR FOUNDATION FIRE RETARDANT TREATED WOOD FOOT OR FEET OR FULLY TEMPERED FOOTING FURRING FIELD VERIFY FACE OF WALL	OD OFCI OFOI OFVI OH OHD OPNG OPP O ₂	OUTSIDE DIAMETER OWNER FURNISH, CONTRACTOR INSTALL OWNER FURNISH, OWNER INSTALL OWNER FURNISH, VENDOR INSTALL OVERHEAD OVERHEAD DOOR OPENING OPPOSITE OXYGEN
		PAR PC PCF PL PLBG PLWD PME PNL PR PSF PSI PVC	PARALLEL PLUMBING CONTRACTOR POUNDS PER CUBIC FOOT PLATE OR PROPERTY LINE PLUMBING PLYWOOD PLUMBING, MECHANICAL & ELECTRICAL PANEL PAIR POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POLYVINYL CHLORIDE

QTY	QUANTITY	R	
R RA RB RD RECEPT REF REINFORC REQD RET REV RH RM RO ROW	RADIUS RETURN AIR RUBBER BASE ROOF DRAIN RECEPTACLE REFERENCE REINFORCE REQUIRED RETURN REVISION RIGHT HAND ROOM ROUGH OPENING RIGHT OF WAY	S SAN SB SCHED SEAL SECT SF SG SH SHT SHTG SIM SPEC SPK SQ ST STC STD STE STR SUSP SV SYS	SOUTH SANITARY SINK BASE SCHEDULE SEALANT SECTION SQUARE FEET SAFETY GLASS SPRINKLER HEAD OR SHOWER HEAD SHEET SHEATHING SIMILAR SPECIFICATION(S) SPEAKER SQUARE STREET SOUND TRANSMISSION CLASSIFICATION STANDARD STEEL STRUCTURAL SUSPENDED SHEET VINYL SYSTEM
T & G TB T&B TEL TOC TOM TOW TRANS TV TYP	TONGUE & GROOVE TOWEL BAR TOP AND BOTTOM TELEPHONE TOP OF CONCRETE TOP OF STEEL TOP OF MASONRY TOP OF WALL TRANSFORMER TELEVISION TYPICAL	UC UNH UL UNO	UNDER CABINET OR COUNTER UNIT HEATER UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
V VB VCT VERT VS	VACUUM VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VACUUM SLIDE	W W/O WC WD WO WIN WP WPT WT WWF	WIDE OR WEST OR WOMEN WITHOUT WATER CLOSET OR WALL CABINET WOOD WINDOW WORK POINT WOOD PRESERVATIVE TREATMENT WEIGHT WELDED WIRE FABRIC

REFERENCE SYMBOLS

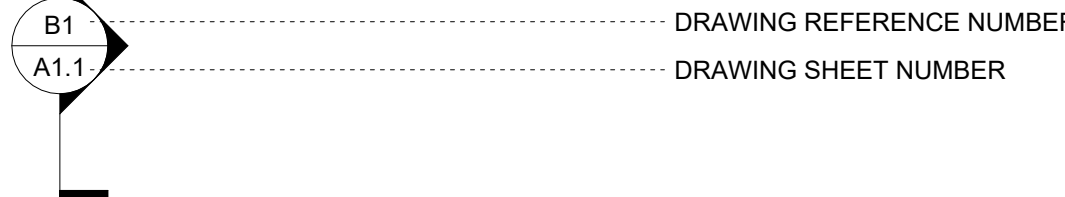
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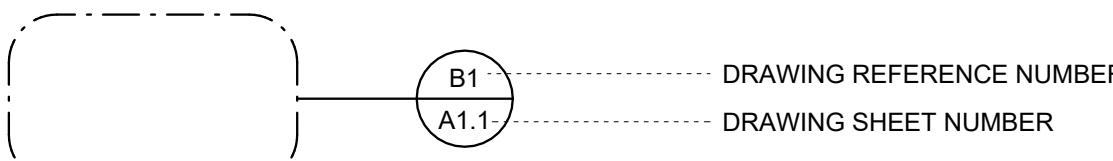
INTERIOR ELEVATIONS



BUILDING/DETAIL SECTION



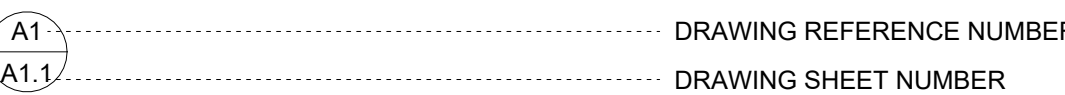
ENLARGED DETAIL



EXTERIOR ELEVATIONS



MATCH LINE

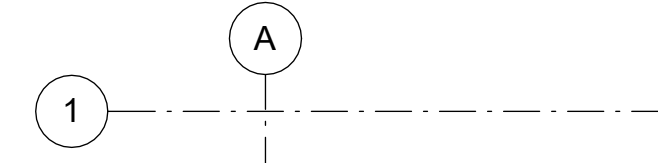


MATERIAL SYMBOLS IN SECTION

	EARTH		LOOSE OR BATT INSULATION		BRICK
	GRANULAR FILL		RIGID INSULATION		SOLID SURFACE
	CONCRETE		STEEL		GYPSUM / PLASTER
	CMU BLOCK		PLYWOOD		WOOD, FINISHED
	BLOCKING / SHIM				WOOD, DIMENSIONAL

DRAWING SYMBOLS

COLUMN CENTER LINES

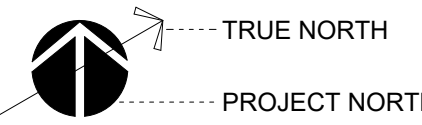


ROOM SYMBOL

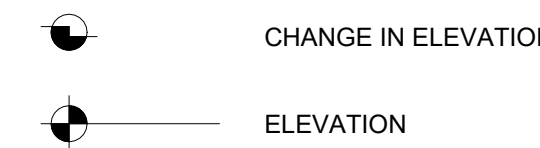


PLAN SYMBOLS

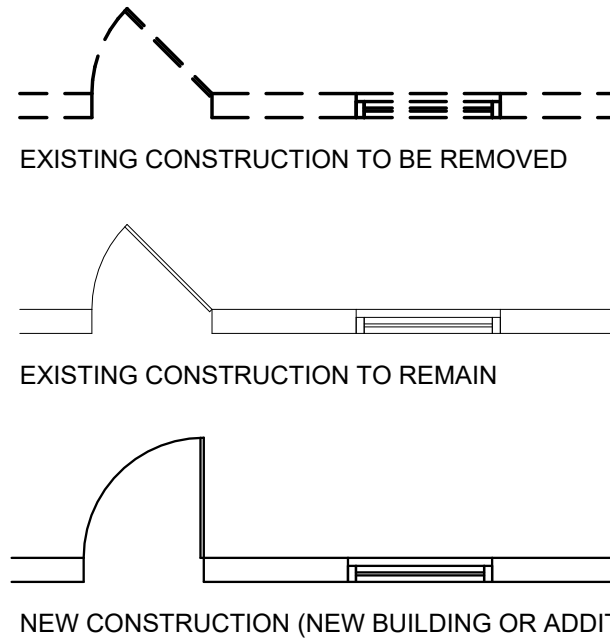
	CONSTRUCTION NOTES
	DEMOLITION NOTES
	ACCESSORIES (LETTERS)
	DOOR NUMBER SYMBOL
	WINDOW SYMBOL
	WALL TYPE
	REVISION / CHANGE
	CORNER GUARD
	END WALL PROTECTOR
	FIRE EXTINGUISHER CABINET



ELEVATION SYMBOLS



TYPICAL WALL CONVENTIONS



REFLECTED CEILING SYMBOLS

	SURFACE MOUNTED LIGHT FIXTURES
	RECESSED LIGHT FIXTURES
	CALL LIGHT
	EXIT LIGHT
	SUPPLY DIFFUSER
	RETURN
	SMOKE DETECTOR
	SPEAKER
	SPRINKLER HEAD
	CURTAIN OR IV TRACK
	CEILING HEIGHT

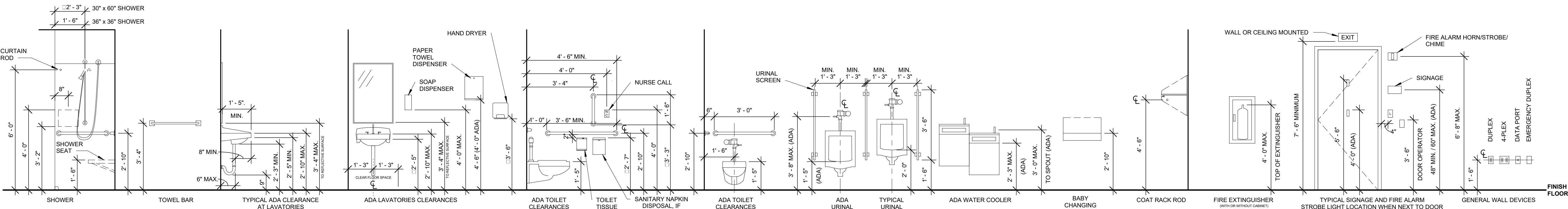
INTERIOR ELEVATION SYMBOLS

	DUPLEX RECEPTACLE
	TELE/DATA OUTLET
	LIGHT SWITCH
	DUPLEX RECEPTACLE (EMERGENCY POWER)
	NURSE CALL BUTTON
	CODE BLUE BUTTON
	MEDICAL GAS OUTLET
	TEMPERED GLASS
	SPANDREL GLASS

FIRE BARRIER LEGEND

	SMOKE RESISTIVE
	1 HR. FIRE BARRIER
	1 HR. FIRE/SMOKE BARRIER
	2 HR. FIRE BARRIER
	2 HR. FIRE/SMOKE BARRIER
	3 HR. FIRE BARRIER

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.



MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)

ROOM FINISH SCHEDULE										
ROOM No.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS	
				N	S	E	W	MAT.		
118	CORRIDOR	VCT-1	RB-1	P-1	P-2	P-1	P-2	APC-1		
119	SHOWER	PT-1	PTWB-1	P-2	P-2	PT-1	P-2	APC-1		
120	ADA SHOWER	PT-1	PTWB-1	P-2	P-2	PT-1	P-2	APC-1		
122	TITLE III WIRE TAP ROOM	LVP-1	RB-1	P-2	P-2	P-2	P-2	APC-1		
123	CORRIDOR	VCT-1	RB-1	P-2	P-2	P-2	P-1	APC-1		
124	GARAGE AREA	EX	RB-1	P-2	P-2	P-2	P-2	GYP - PAINT P-3		
125	INTERVIEW ROOM	CPT-1	RB-1	P-2	P-2	P-2	P-2	APC-1		
126	INTERVIEW ROOM	CPT-1	RB-1	P-2	P-2	P-2	P-2	APC-1		
127	FOYER	VCT-1	RB-1	P-2	P-2	P-2	P-1	APC-1		
128	MECHANICAL ROOM	CPT-1	RB-1	P-2	P-2	P-2	P-2	APC-1		
129	K9 OFFICE	CPT-1	RB-1	P-2	P-2	P-2	P-2	APC-1		
130	SECURE EVIDENCE STORAGE	VCT-1	RB-1	P-2	P-2	P-2	P-2	APC-1		

MATERIAL LEGEND							
ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	CONTACT INFO	COLOR	FLAME / SMOKE	REMARKS
BASE							
EX	EXISTING						
PTWB-1	PORCELAIN TILE WALL BASE	DALTILE	12"x24" x 3/8" THICK MATTE FINISH				
RB-1	RUBBER BASE	JOHNSONITE	COVE BASE - 4 1/2"	TRISHA ROE-KEEL, 513.207.5309	20 CHARCOAL		
CABINETS							
SSM-1	SOLID SURFACE	WILSONART		RANDI CALETTI-GARRIS, 614.363.9737	9074EA - BLUESTONE		
CEILING							
APC-1	ACOUSTIC PANEL CEILING	ARMSTRONG	OPTIMA 3256 24" x 24"	JENN McCOY, 519.919.2263	WHITE		
EX	EXISTING						
GYB / P-3	GYPSUM BOARD PAINTED	SHERWIN WILLIAMS	SW 7009 EGGSHELL FINISH	KAREN MCILWIAN, 317.714.5610	PEARLY WHITE		
DOORS							
DEP-3	DOOR & FRAME PAINT	SHERWIN WILLIAMS	SW 7009 EGGSHELL FINISH	KAREN MCILWIAN, 317.714.5610	PEARLY WHITE		
FLOOR							
CPT-1	CARPET TILE	INVISION CARPET TILE	7025 FICTION MODULAR 24"x24"		1775 IRONY	CLASS 1 <450	
EX	EXISTING						
LVP-1	LUXURY VINYL PLANK	SHAW CONTACT	SOLITUDE 0648V - 6"x48" PLANK	LAUREN HILLNER, 513.581.0321	SMOKE 48506	CLASS 1 <450	
PT-1	PORCELAIN TILE	DALTILE	12"x24" x 3/8" THICK MATTE FINISH				
VCT-1	ARMSTRONG	EXCELRON VCT TILE	VCT TILE 12" X 12"		51881 - BLUE BERRY		
WALL							
EX	EXISTING						
P-1	PAINT	SHERWIN WILLIAMS	SW 6516 EGGSHELL FINISH	KAREN MCILWIAN, 317.714.5610	DOWN POUR		ACCENT PAINT
P-2	PAINT	SHERWIN WILLIAMS	SW 0055 EGGSHELL FINISH	KAREN MCILWIAN, 317.714.5610	LIGHT FRENCH GREY		WALL PAINT COLOR
P-3	PAINT	SHERWIN WILLIAMS	SW 7009 SEMI GLOSS FINISH	KAREN MCILWIAN, 317.714.5610	PEARLY WHITE		DOOR FRAME PAINT COLOR
PT-1	PORCELAIN TILE	DALTILE	12"x24" x 3/8" THICK MATTE FINISH				



TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD NOTES: 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE & SHOWER WALLS.
A2	3 5/8"	- -	DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD
A3	3 5/8"	- -	FILL VOIDS WITH FIRESAFING INSULATION AND SEALANT, EACH SIDE. DEFLECTION TRACK AT HEAD. 5/8" TYPE "X" GYPSUM BOARD 18 GA. MIN. 3 5/8" STEEL STUDS @ 24" O.C. 3 1/2" SOUND ATTENUATION 3/4" #9 STANDARD OR FLATTENED 9 GAUGE EXPANDED CARBON STEEL TO BE PLACED ON ATF SUITE SIDE. 5/8" TYPE "X" GYPSUM BOARD CONTINUOUS FLOOR RUNNER W/ ANCHORS @ 2'-0" O.C. *SLAB TO DECK W/ #9 GAUGE SECURITY MESH
C1	7/8"		EXISTING WALL EXISTING WINDOW TO REMAIN 1/2" EXTERIOR GRADE FINISHED PLYWOOD PAINT, 2 COATS, FLAT BLACK PRIOR TO INSTALL VAPOR BARRIER 2 1/2" METAL STUD & BATT INSULATION 5/8" TYPE "X" GYPSUM BOARD
C2	1 1/2"		EXISTING WALL 3 5/8" METAL STUD @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD

- A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES.
- B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.
- C. DRYWALL CONTRACTOR TO PAINT WALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. LABEL TO BE PAINTED ABOVE CEILING WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR.
- D. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
- E. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.
- F. REFER TO THIS SHEET FOR TYPICAL INTERIOR PARTITIONS DETAILS.
- G. APPLY ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS.
- H. EXISTING BUILDING FLOOR TO FLOOR HEIGHTS FOR AREAS OF WORK:
 - FIRST FLOOR TO ROOF: APPROXIMATELY 14'-11"

DATE	08/31/26
JOB NO.	4301.01
DRAWN	AHB
CHECKED	TJB

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TITLE
**FINISH SCHEDULES,
WALL TYPES AND
DETAILS**

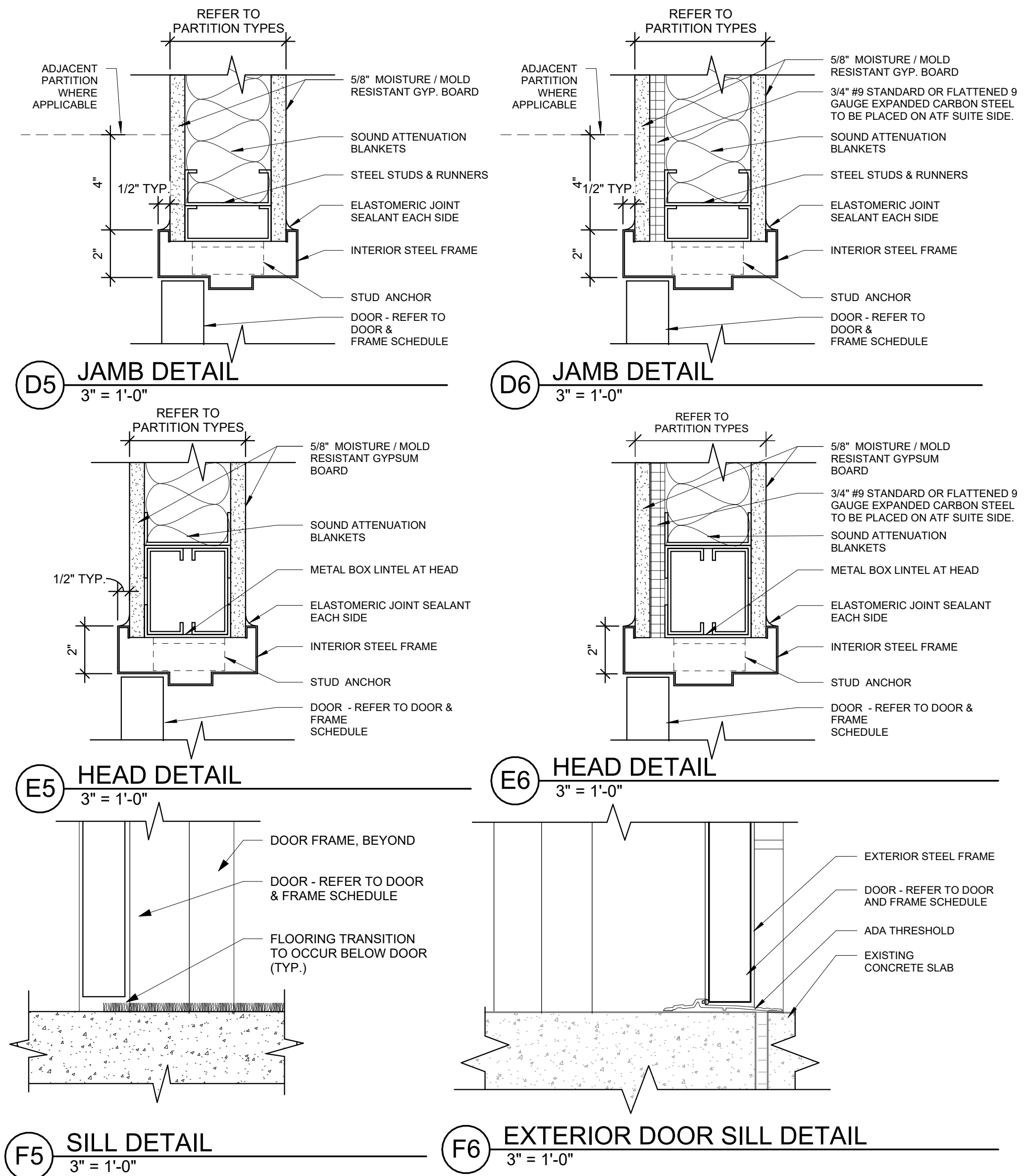
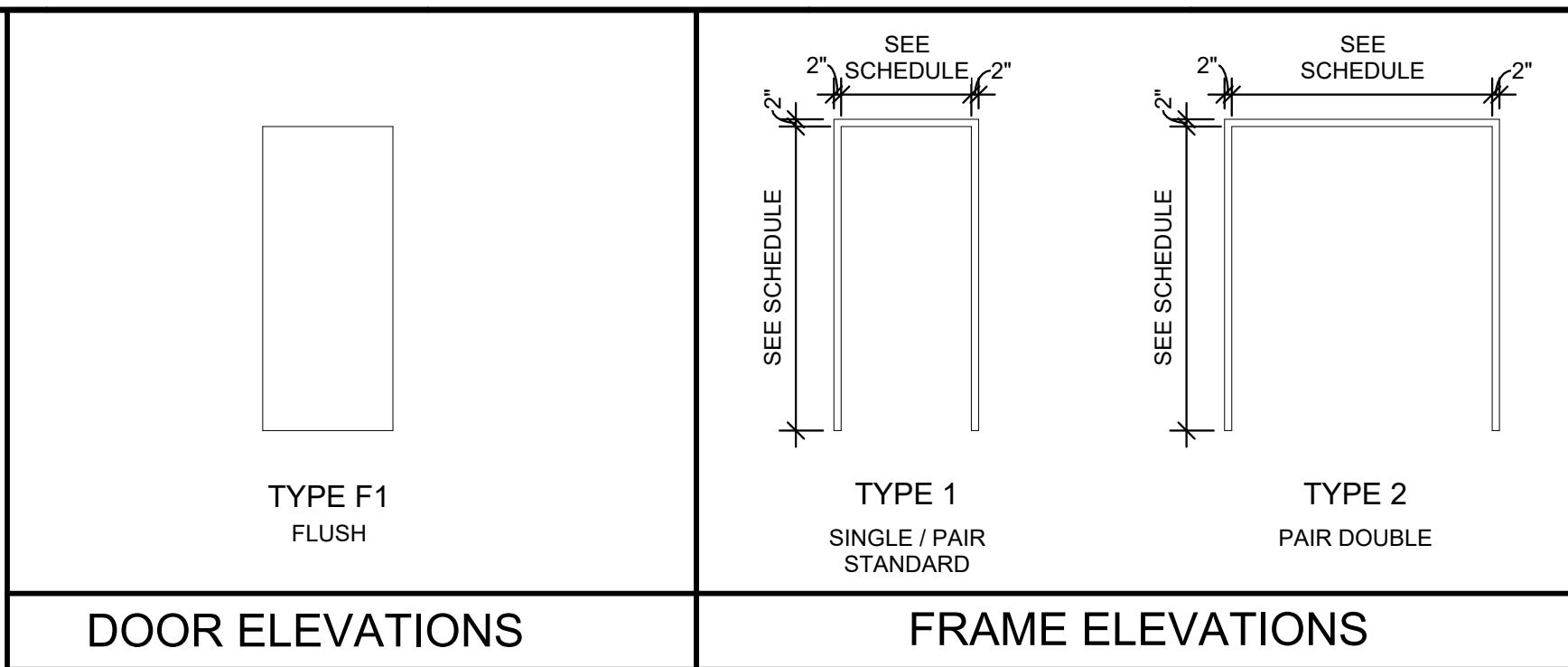
SHEET NO.

A0.2

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DOOR AND FRAME SCHEDULE																	
DOOR No.	ROOM NAME	HDW. SET	DOOR						FRAME						FIRE RTG.	REMARKS	
			SIZE			MAT.	TYPE	FIN.	U/C	MAT.	TYPE	FIN.	DETAILS				
			W	H	T								HEAD	JAMB			SILL
119	SHOWER	1	3'-0"	7'-0"	1 3/4"	WOOD	F1	STAIN		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
120	ADA SHOWER	1	3'-0"	7'-0"	1 3/4"	WOOD	F1	STAIN		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
122	TITLE III WIRE TAP ROOM	2	3'-0"	7'-0"	1 3/4"	WOOD	F1	STAIN		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
123	CORRIDOR	3	3'-0"	7'-0"	1 3/4"	WOOD	F1	STAIN		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
124A	GARAGE AREA	EX	3'-0"	7'-0"	1 3/4"	EX	EX	DP-3		EX	EX	DP-3	-	-	-	-	1.2
124B	GARAGE AREA	4	3'-0"	7'-0"	1 3/4"	HM	F1	DP-3		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1
124C	GARAGE AREA	4	3'-0"	7'-0"	1 3/4"	HM	F1	DP-3		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1
124D	GARAGE AREA	5	3'-0"	7'-0"	1 3/4"	HM	F1	DP-3		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1
125	INTERVIEW ROOM	3	3'-0"	7'-0"	1 3/4"	WOOD	F1	DP-3		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
126	INTERVIEW ROOM	3	3'-0"	7'-0"	1 3/4"	WOOD	F1	DP-3		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
127	FOYER	6	6'-0"	7'-0"	1 3/4"	ALUM	EX	EX		ALUM	2	EX	-	-	-	-	1
129	K9 OFFICE	7	3'-0"	7'-0"	1 3/4"	WOOD	F1	STAIN		HM	1	DP-3	E5/A0.3	D5/A0.3	F5/A0.3	-	1.3
130	SECURE EVIDENCE STORAGE	2	3'-6"	7'-0"	1 3/4"	WD	161	STAIN		HM	1	DP-3	E6/A0.3	D6/A0.3	F5/A0.3	-	1.3

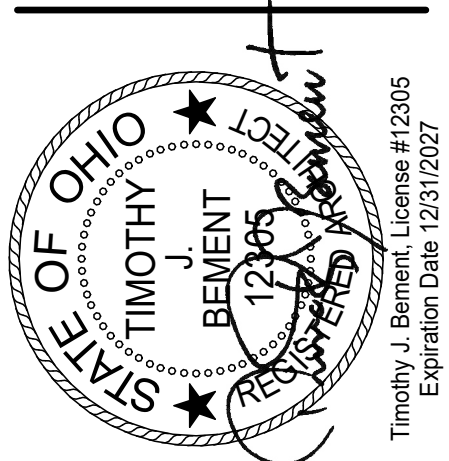
DOOR SCHEDULE NOTES	
No.	NOTE
1	ALL DOORS, FRAMES, AND HARDWARE NOT LISTED WITHIN THIS DOOR SCHEDULE TO REMAIN. REFER TO NOTE #2 BELOW.
2	ALL EXISTING DOOR FRAMES WITHIN THE PROJECT AREA TO BE PAINTED- REFER TO THE MATERIAL LEGEND ON SHEET A0.2. ALL EXISTING WOOD DOORS WITHIN THE PROJECT AREA TO REMAIN AS NATURAL FINISH.
3	ALL NEW WOOD DOORS TO BE PRE-FINISHED PRIOR TO INSTALLATION. MATCH EXISTING WOOD DOOR STAIN ON WEST SIDE OF BUILDING.



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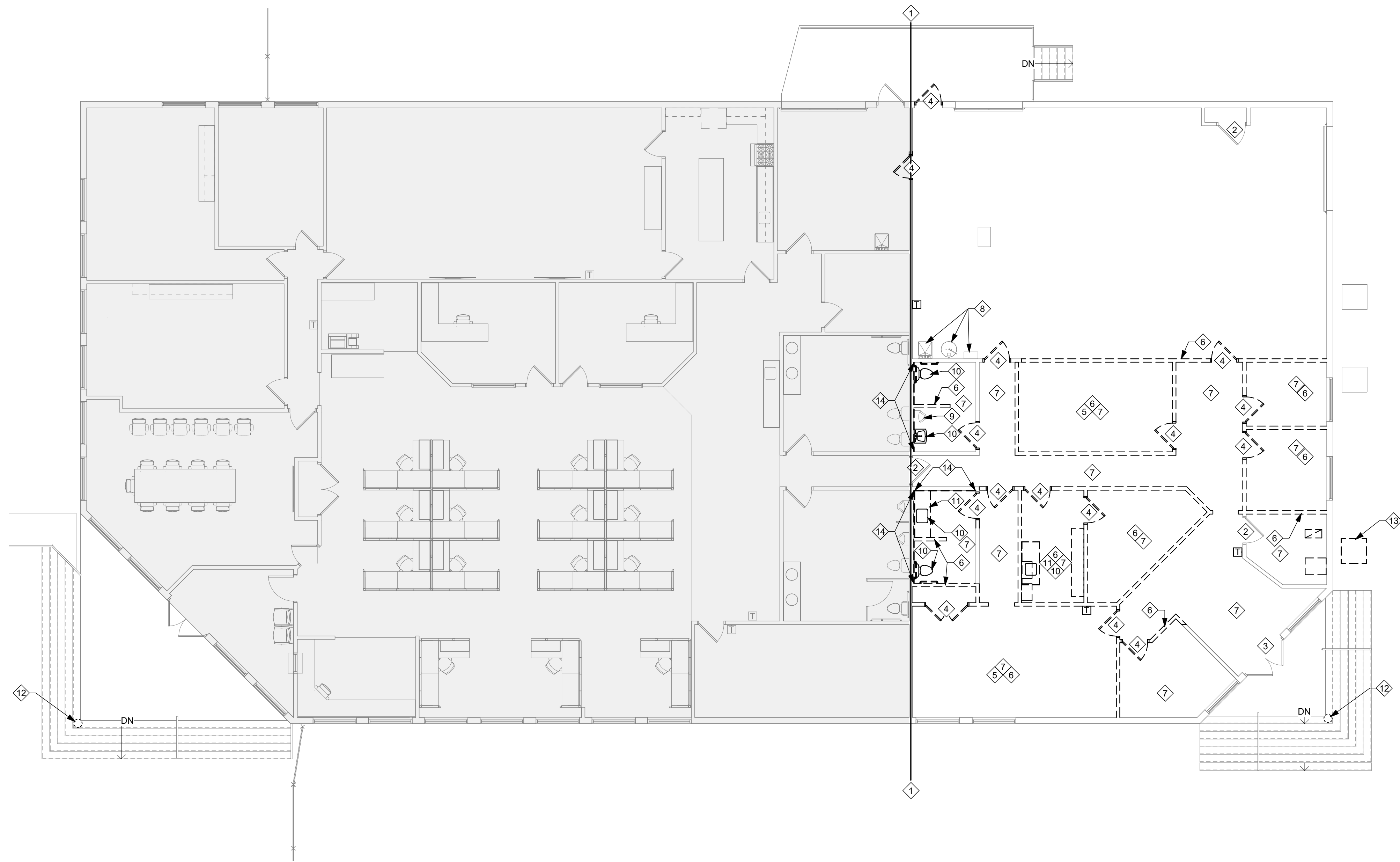
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TITLE
**DOOR SCHEDULES &
DETAILS**

SHEET NO.

A0.3



F1 DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

- INDICATES DEMOLITION NOTE.
- NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - EXISTING DOORS AND FRAME TO REMAIN.
 - MODIFY EXISTING DOOR.
 - REMOVE EXISTING DOORS AND FRAME.
 - DISASSEMBLE EXISTING SYSTEMS FURNITURE AND STORE WITHIN THE BUILDING PER THE BUILDING OWNER'S DIRECTION. REFER TO THE ELECTRICAL DRAWINGS FOR DEMOLITION NOTES.
 - REMOVE EXISTING WALLS.
 - REMOVE EXISTING FLOORING & WALL BASE. REFER TO FINISH SCHEDULE FOR NEW FLOORING & BASE MATERIAL.
 - EXISTING PLUMBING ITEMS TO REMAIN.
 - EXISTING PLUMBING FIXTURE TO BE SALVAGED FOR REINSTALLATION. REFER TO PLUMBING DWGS FOR MORE INFO.
 - REMOVE EXISTING PLUMBING FIXTURES.
 - REMOVE EXISTING CASEWORK & COUNTERTOPS.
 - REMOVE EXISTING EIFS FROM ENTIRE COLUMN. REFER TO NEW WORK DETAILS FOR NEW COLUMN FINISH.
 - REMOVE EXISTING CONDENSING UNIT & CONCRETE PAD. REFER TO PME DWGS FOR MORE INFORMATION.
 - REMOVE EXISTING LAYER OF DRYWALL FINISH.

GENERAL NOTES

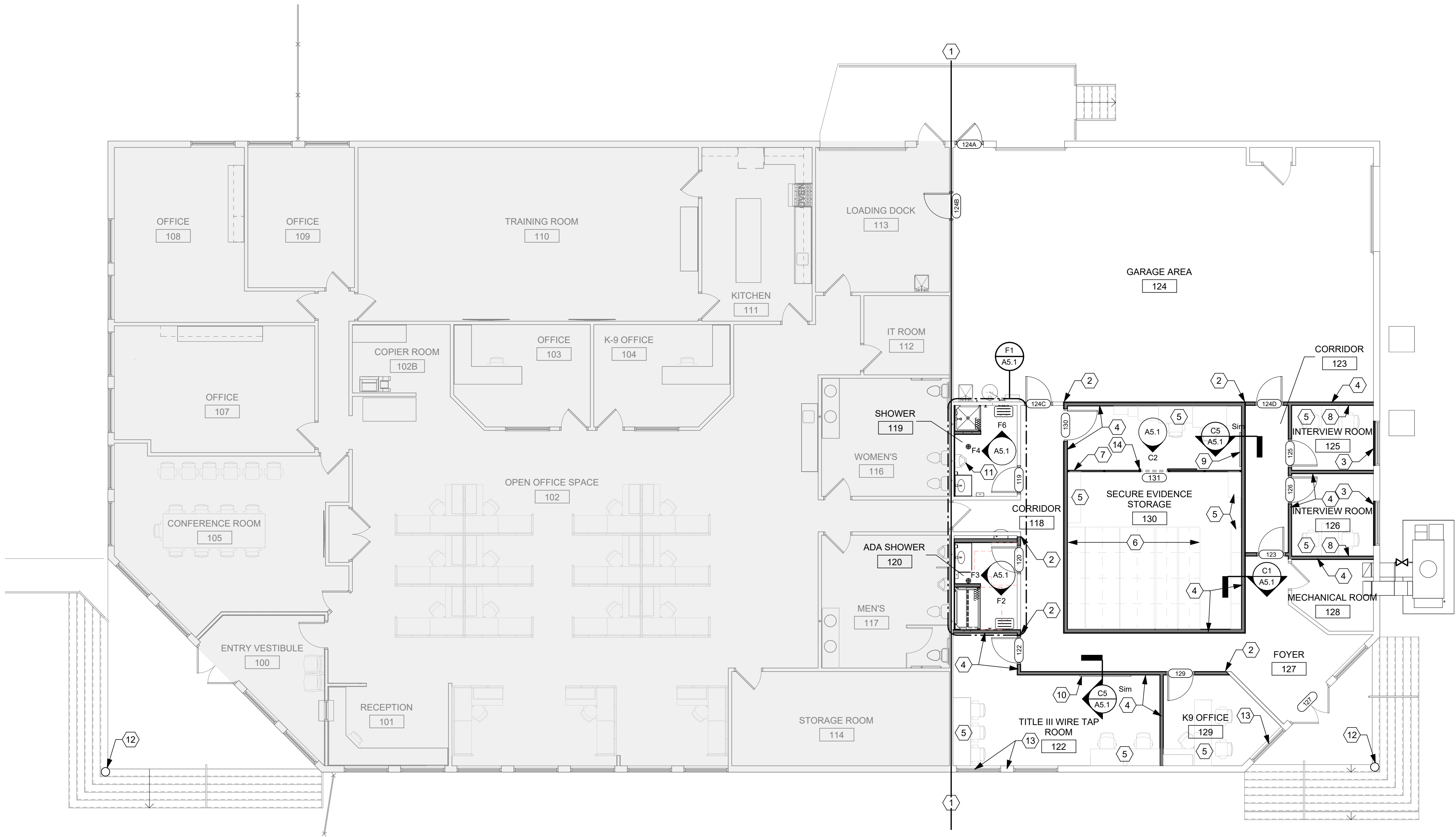
- PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
- PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE DURING CONSTRUCTION.
- REFER TO MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH. REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PRIOR TO DISPOSAL OF EXISTING EQUIPMENT AND/OR FIXTURES, COORDINATE WITH OWNER.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM JOB SITE IN A LEGAL AND TIMELY MANNER. LOCATIONS OF JOBSITE DUMPSTER SHALL BE COORDINATED WITH OWNER PRIOR TO THE START OF CONSTRUCTION.

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TITLE
DEMOLITION PLAN

SHEET NO.
A1.1



F1 REFERENCE PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE.
- NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - ALIGN NEW WALL WITH EXISTING. REFER TO REFLECTED CEILING PLAN.
 - NEW WALL INFILL AT EXISTING WINDOW. SEE WALL TYPE.
 - FULL HEIGHT PORTION OF WALL. EXTEND TO STRUCTURE ABOVE. COORDINATE DIMENSIONS WITH ELECTRICAL DRAWINGS.
 - NEW SYSTEMS FURNITURE BY TENANT. COORDINATE WITH ELECTRICAL DRAWINGS.
 - NEW SPACESAVER CASE-TYPE SHELVING BY TENANT. COORDINATE ELECTRICAL REQUIREMENTS.
 - NEW SECURITY GATE. REFER TO A5.1 FOR DETAILS.
 - WALL MOUNTED D-RING. REFER TO SHEET A5.1 FOR MOUNTING DETAILS.
 - WALL MOUNTED PEG BOARD. REFER TO SHEET A5.1 FOR MOUNTING DETAILS.
 - WALL MOUNTED WHITE BOARD. REFER TO SHEET A5.1 FOR MOUNTING DETAILS.
 - EXISTING PLUMBING FIXTURE REINSTALLED.
 - NEW METAL COLUMN WRAP. SEE DETAILS ON SHEET G0.2.
 - PROVIDE MANUAL SHADES TO ROOM WINDOWS. STANDARD FABRIC AT K9 OFFICE 129. ADD BLACKOUT SHADES TO ROOM 122. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
 - SINGLE SLIDE GATE BY SECURITY GATE MANUFACTURER. REFER TO DETAIL ON SHEET A5.1.

GENERAL NOTES

- PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
- PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.
- U.N.O. ALL WALL MOUNTED ACCESSORIES SHALL BE INSTALLED AT APPLICABLE ACCESSIBLE COMPLIANT HEIGHTS. REFER TO A0.1 FOR DETAILS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL MECHANICAL, ELECTRICAL, AND PLUMBING.
- PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED IN CONSTRUCTION.
- REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVED NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.
- EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND SHALL BE PREPARED IN A MANNER ACCEPTABLE TO FINISH MANUFACTURER.
- FURNITURE SHOWN FOR REFERENCE ONLY.

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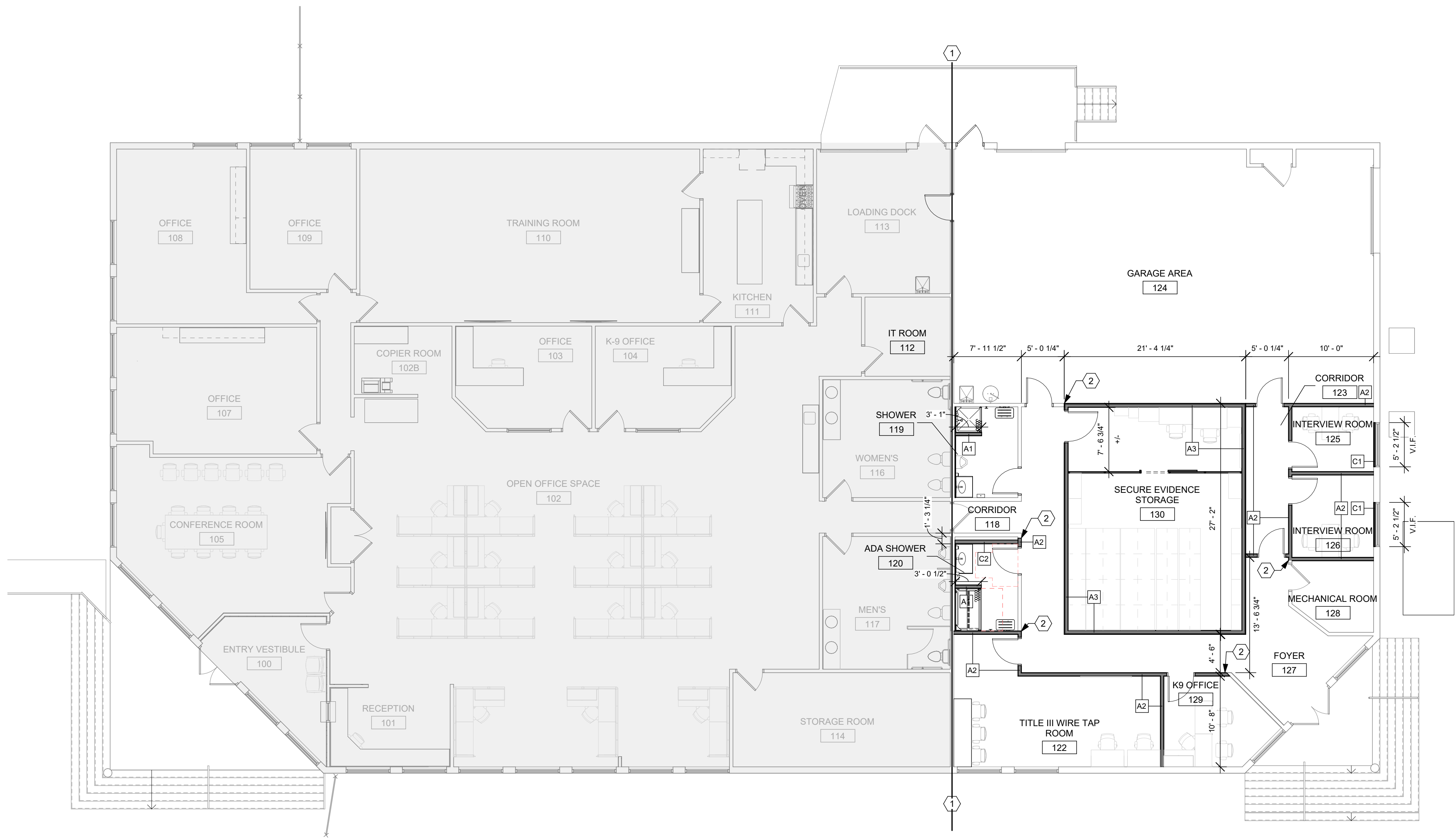
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TITLE
REFERENCE PLAN

SHEET NO.
A1.2



(F1) NEW DIMENSION FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE.
- 1 NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - 2 ALIGN

GENERAL NOTES

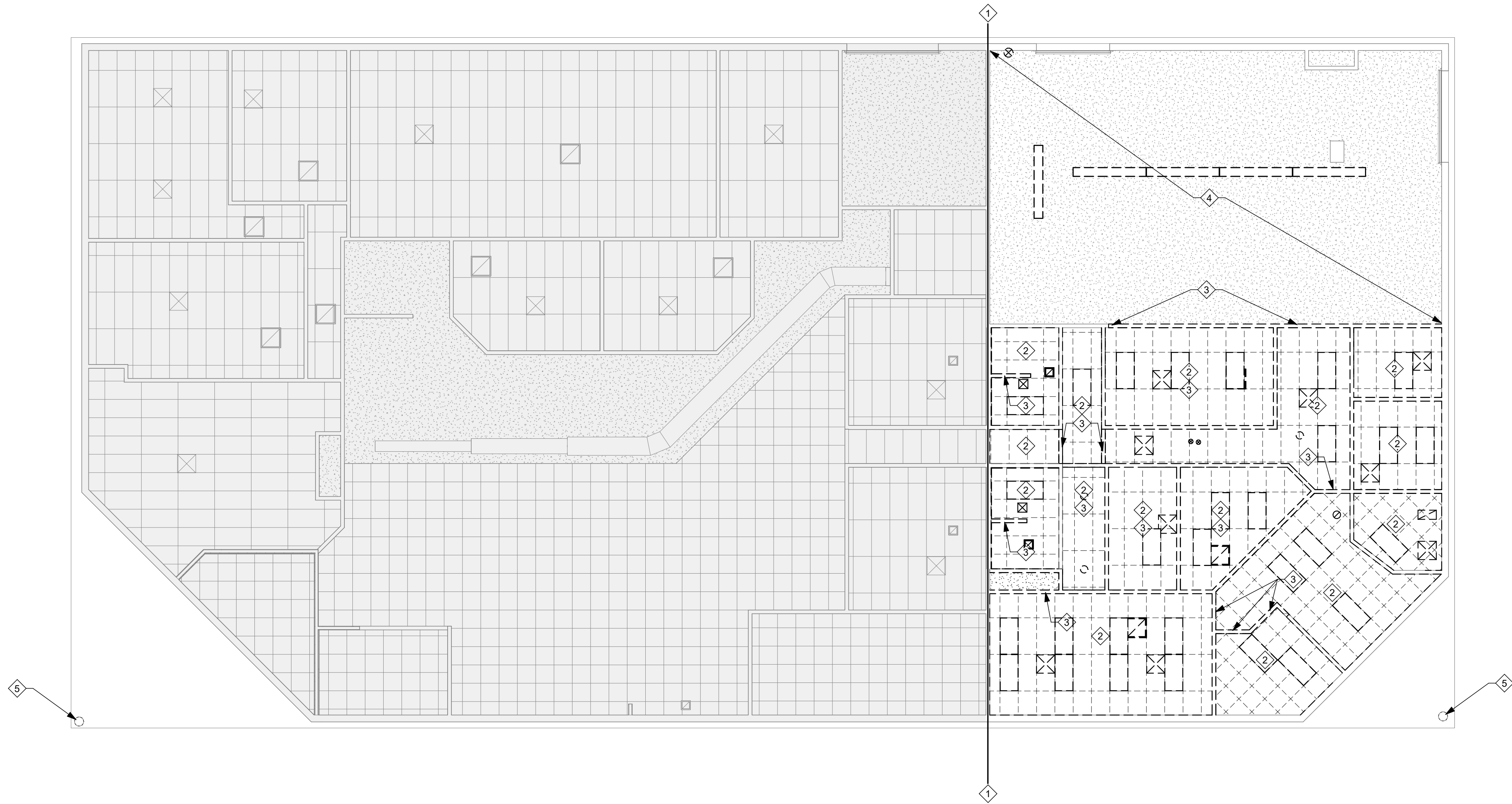
- PARTITIONS ARE TO BE CONSTRUCTED TO STRUCTURE ABOVE U.N.O.
- DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

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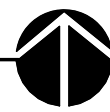
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TITLE
DIMENSION PLAN

SHEET NO.
A1.3



(F1) REFLECTED CEILING DEMOLITION PLAN
1/8" = 1'-0"



DEMOLITION NOTES

- ◆ INDICATES DEMOLITION NOTE.
- NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - REMOVE EXISTING CEILING TILES AND GRID.
 - REMOVE EXISTING WALL.
 - EXISTING GWB CEILING TO REMAIN. PREPARE FOR NEW FINISH REFER TO NEW WORK DETAILS.
 - REMOVE EXISTING EIFS FROM ENTIRE COLUMN. SEE NEW WORK DETAILS FOR NEW COLUMN FINISH.

GENERAL NOTES

- PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
- PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE DURING CONSTRUCTION.
- REFER TO MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- PRIOR TO DISPOSAL OF EXISTING EQUIPMENT AND/OR FIXTURES, COORDINATE WITH OWNER.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM JOB SITE IN A LEGAL AND TIMELY MANNER. LOCATIONS OF JOBSITE DUMPSTER SHALL BE COORDINATED WITH OWNER PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ABOVE CEILING CONDITIONS FOLLOWING DEMOLITION OF CEILING. NON-COMPLIANT ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REP AND THE ARCHITECT.

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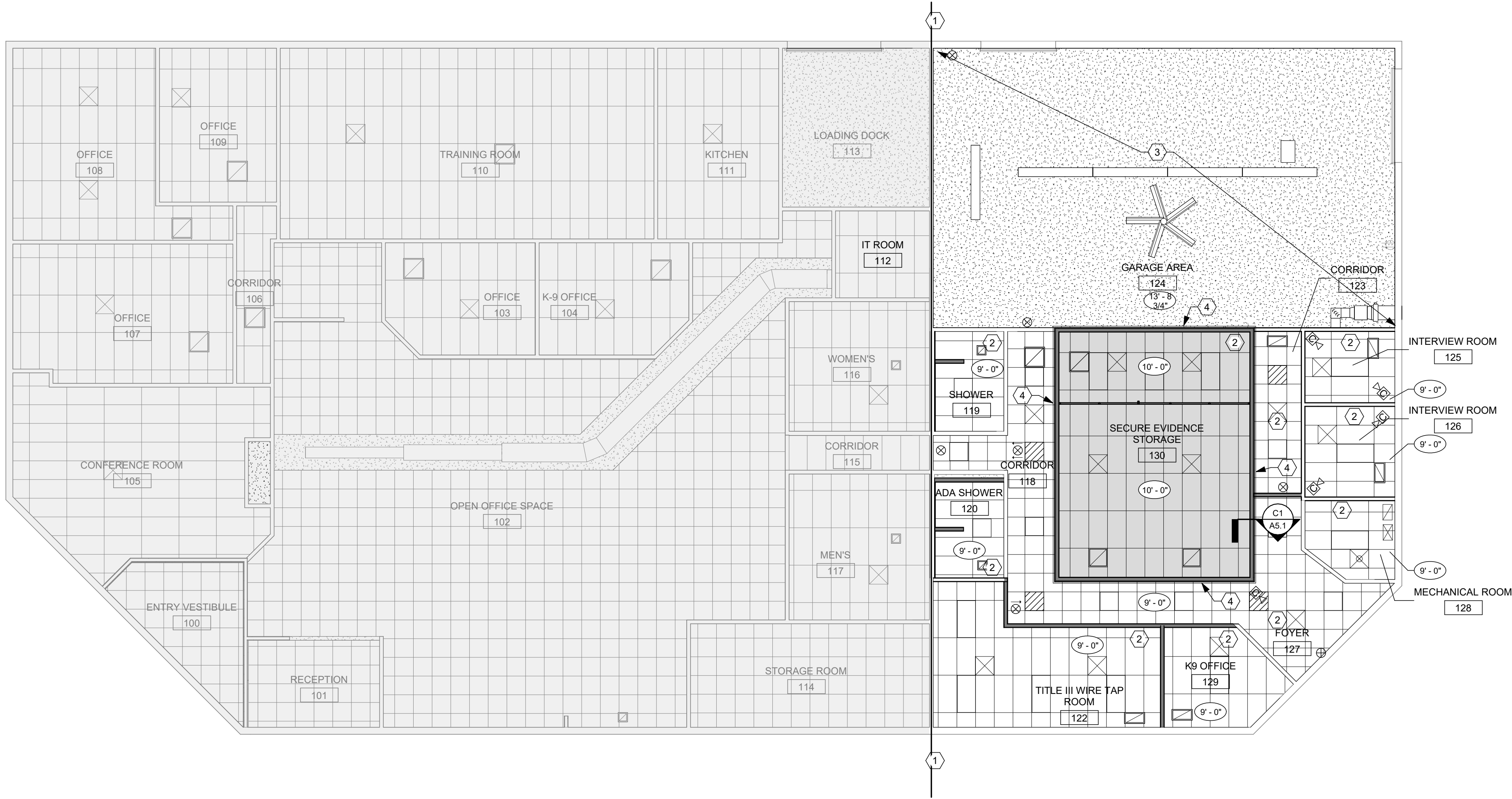
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TITLE
**DEMOLITION REFLECTED
CEILING PLAN**

SHEET NO.
A2.1



F1 PROPOSED REFLECTED CEILING PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

- ⓪⓪ INDICATES CONSTRUCTION NOTE.
- 1 NO ARCHITECTURAL WORK WEST OF MATCH LINE.
 - 2 NEW ACOUSTICAL PANEL CEILING AND GRID.
 - 3 NEW GYPSUM BOARD CEILING ATTACHED DIRECTLY TO EXISTING GARAGE CEILING. PAINT.
 - 4 SHADED AREA REPRESENTS MESH CEILING ABOVE APC CEILING. EXTEND MESH 2" PAST PARTITION OUTSIDE OF ROOM 130. REFER TO DETAIL C1/A5.1.

GENERAL NOTES

- REFER TO ROOM FINISH SCHEDULE AND MATERIALS LEGEND AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.
- MEASURE CEILING LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES. BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O. AND CAULK ANY GAPS AT WALL.
- REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEVICE DESCRIPTIONS.
- ALL EXPOSED GYPSUM BOARD TO BE PAINTED.

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TITLE REFLECTED CEILING PLAN	
SHEET NO. A2.2	

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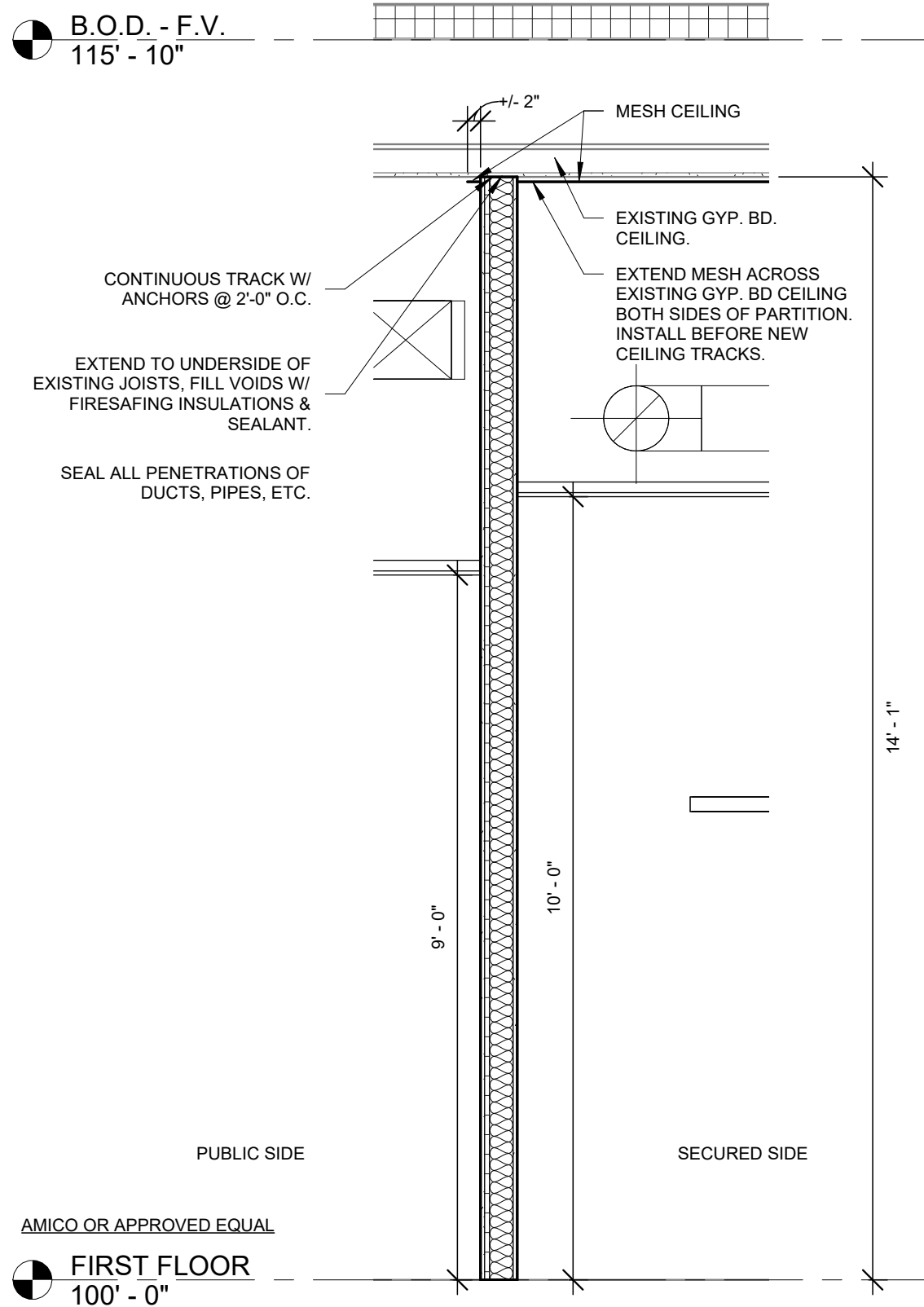
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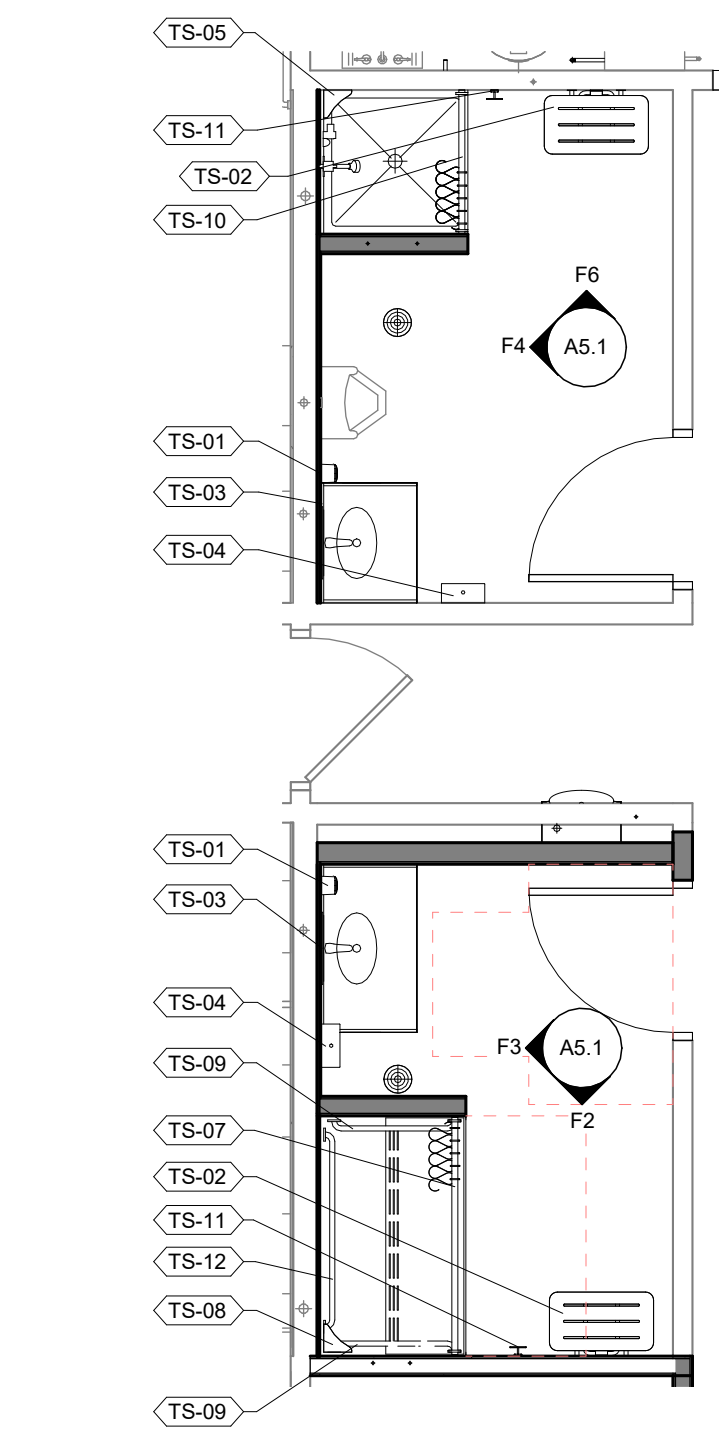
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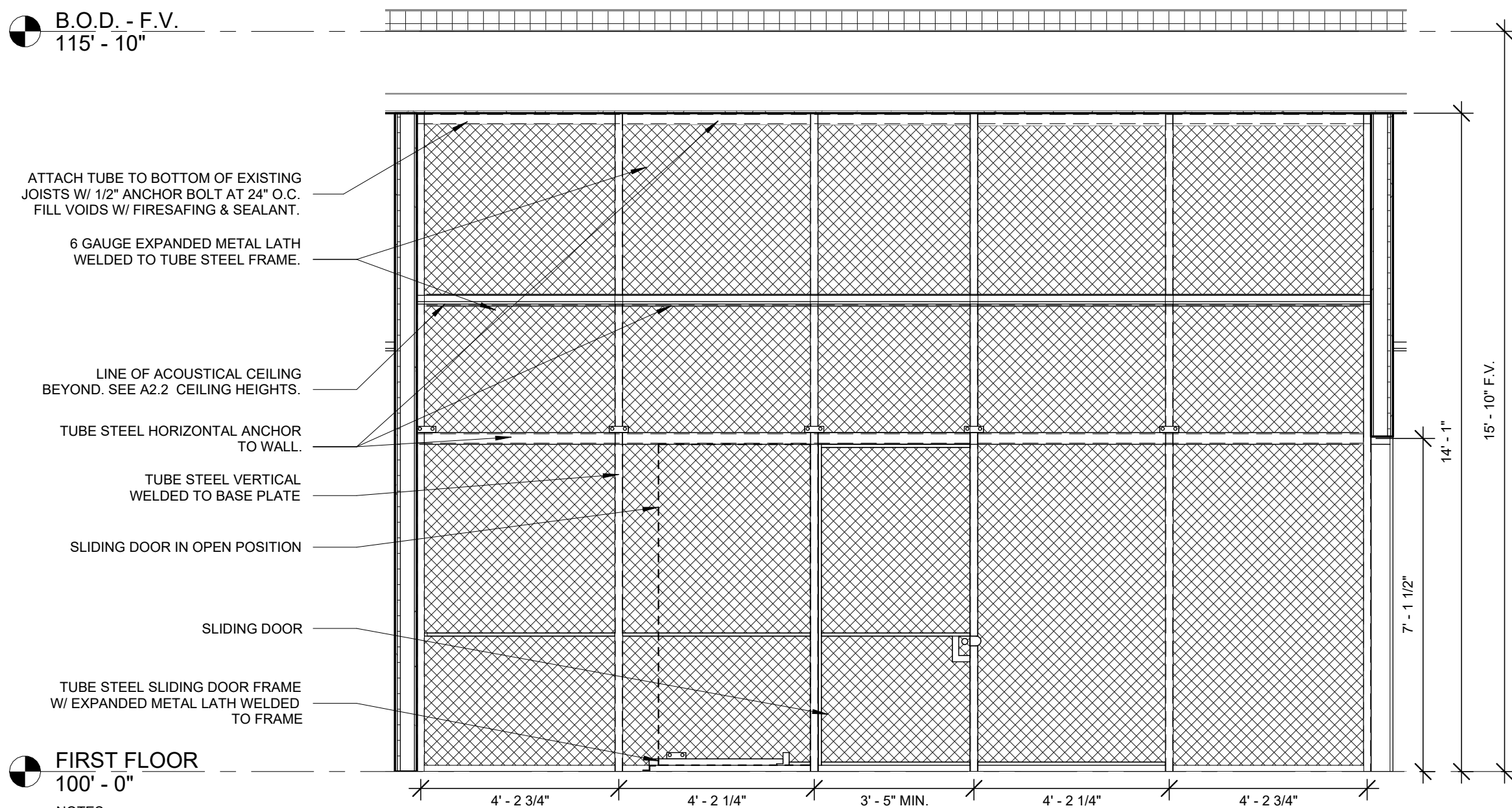


- INSTALLATION NOTES:
- METHODS OF CUTTING: 10" HAND HELD CIRCULAR SAW WITH ABRASIVE BLADE, CUTTING TORCH, NIBBLER HEAVY DUTY HIGH SPEED. EYE AND EAR PROTECTION SHOULD BE WORN DURING THE CUTTING OPERATION.
- METHODS OF ATTACHMENT NOTES:
- WELDING TO STEEL STUDS AND TRACK. WELD SECURITY EXPANDED METAL WITH 1/8" X 1/2" LG. MIN. FILLET WELDED TO STEEL STUDS - 20 GA. OR HEAVIER. EDGE WELDS MUST BE WITHIN 2' OF EDGE.
 - PAN HEAD TYPE SELF-DRILLING SCREWS WITH AT LEAST A #8 SHANK, LONG ENOUGH TO PENETRATE THROUGH STEEL SUPPORTS AT LEAST 3/8 INCH.
 - ONE WAY FASTENERS SCREWS LONG ENOUGH TO PENETRATE THROUGH STEEL SUPPORTS AT LEAST 3/8 INCH.
 - END JOINTS OF SECURITY EXPANDED METAL MUST BE BUTTED AND OCCUR OVER STUDS.
 - SIDE JOINTS MUST BE BUTTED AND WIRE TIED AT MIDPOINT BETWEEN SUPPORTS.
 - FOR MAXIMUM STRENGTH AND EASE OF INSTALLATION, LWD OF SHEET SHOULD BE PLACED HORIZONTALLY.
 - UNDERWRITERS LABORATORIES FIRE RATED ASSEMBLIES WILL NOT BE JEOPARDIZED BY USING ASM IN THE FIRE RATED ASSEMBLY. (JUL SUBJECT FILE #1857)

C1 SECURE PARTITION WALL DETAILS
1/2" = 1'-0"



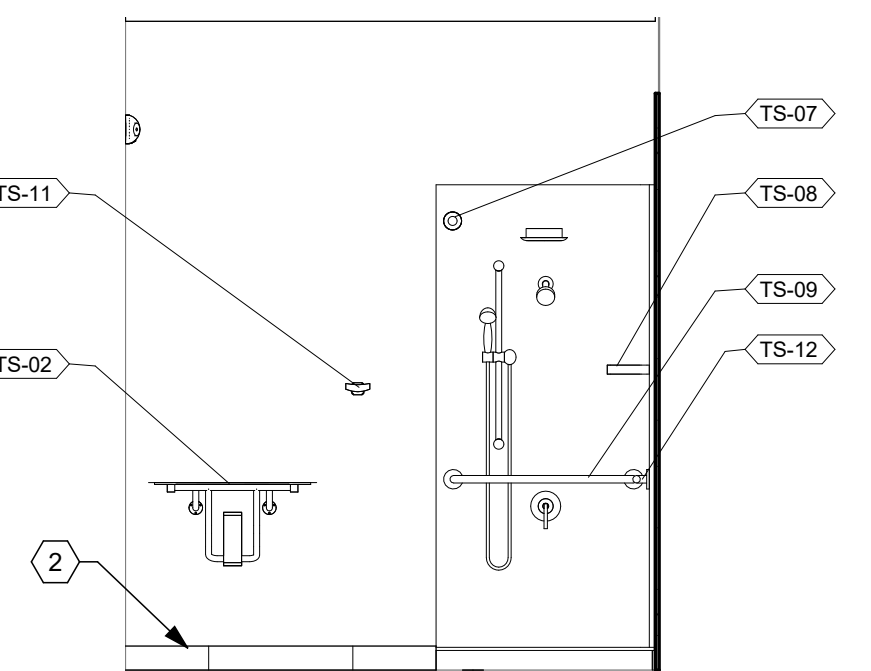
F1 ENLARGED SHOWER PLANS
1/4" = 1'-0"



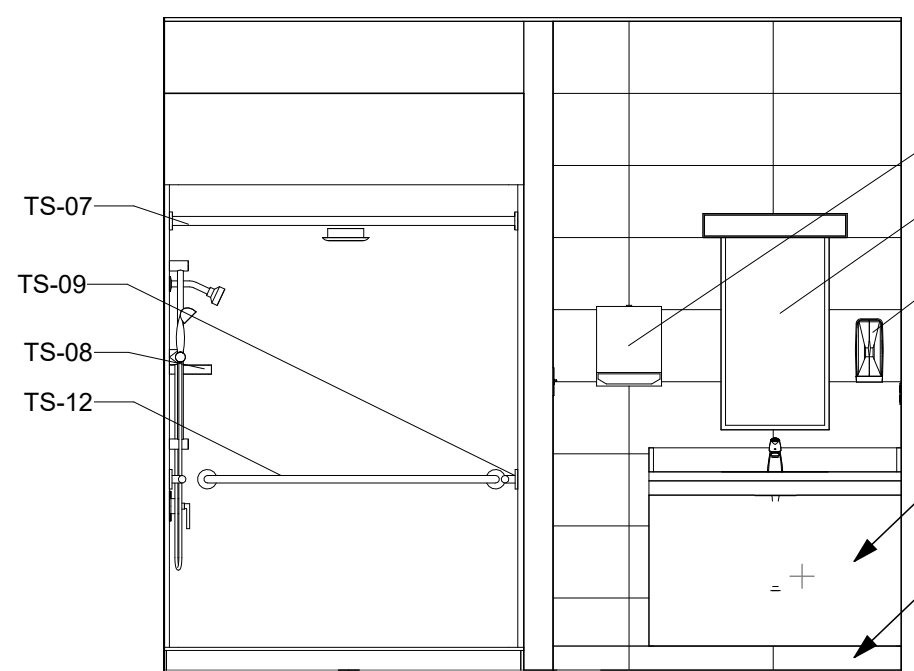
- NOTES:
- SPACING BETWEEN FLOOR & UNDERSIDE OF METAL PARTITION SHALL BE NO MORE THAN 1" (+/- 1/2").
 - ADHERE TO DRAWING DIMENSION FOR PLACEMENT.
 - PAINT EXPANDED METAL SEMI-GLOSS RUSTOLEUM.
 - BASIS OF DESIGN: INDIANA WIRE PRODUCTS NO. 200HD, COLOR SHOP COATE GRAY. SINGLE SLIDE GATE (3' - 5' X 7' - 0" MIN). GATE LOCK CASE: W3703, COVER W3701, KEYED CYLINDER WITH INTERIOR KNOB. COORDINATE KEYING WITH OWNER. (INDIANAWIREPRODUCTS.COM)

C2 SECURITY GATE ELEVATION DETAILS
3/8" = 1'-0"

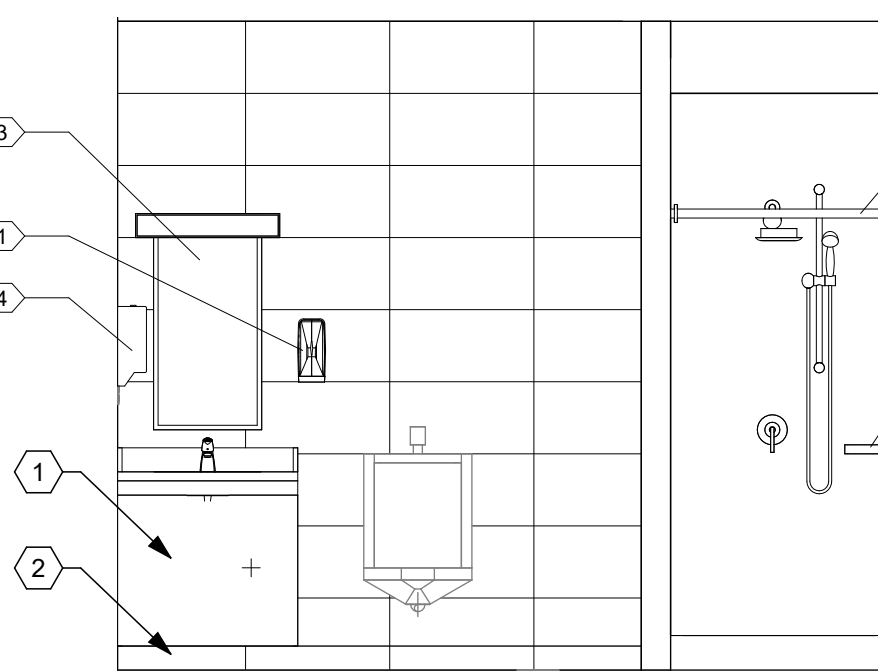
EQUIPMENT SCHEDULE					
TYPE MARK	DESCRIPTION	EQUIP. PROVIDER BY	EQUIP. INSTALLER BY	EQUIP. CONNECTED BY	COMMENTS
TS-01	SURFACE MOUNTED SOAP DISPENSER	PROVIDED BY GC	INSTALLED BY GC		
TS-02	SEAT, FOLDING	PROVIDED BY GC	INSTALLED BY GC		
TS-03	MIRROR, 18" x 36"	PROVIDED BY GC	INSTALLED BY GC		
TS-04	SURFACE MOUNTED PAPER TOWEL DISPENSER	PROVIDED BY GC	INSTALLED BY GC		
TS-05	SOAP DISH, CORNER	PROVIDED BY GC	INSTALLED BY GC		REFER TO SPECIFICATIONS
TS-07	SHOWER ROD	PROVIDED BY GC	INSTALLED BY GC		
TS-08	SOAP DISH, CORNER	PROVIDED BY GC	INSTALLED BY GC		
TS-09	GRAB BAR, STAINLESS STEEL 30" x 1.5" DIA.	PROVIDED BY GC	INSTALLED BY GC		
TS-10	SHOWER ROD AND CURTAIN	PROVIDED BY GC	INSTALLED BY GC		REFER TO SPECIFICATIONS
TS-11	ROBE HOOK	PROVIDED BY GC	INSTALLED BY GC		REFER TO SPECIFICATIONS
TS-12	GRAB BAR, STAINLESS STEEL 48" x 1.5" DIA.	PROVIDED BY GC	INSTALLED BY GC		



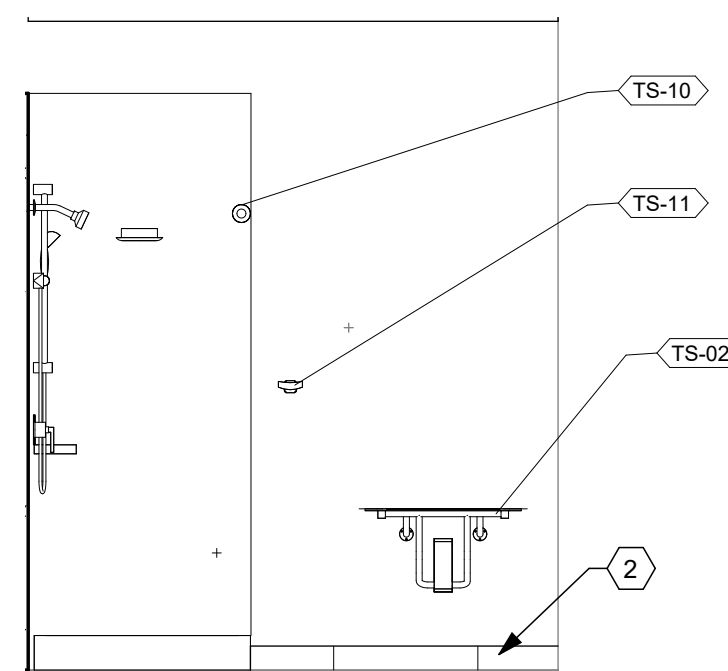
F2 SHOWER 120 - SOUTH ELEV.
3/8" = 1'-0"



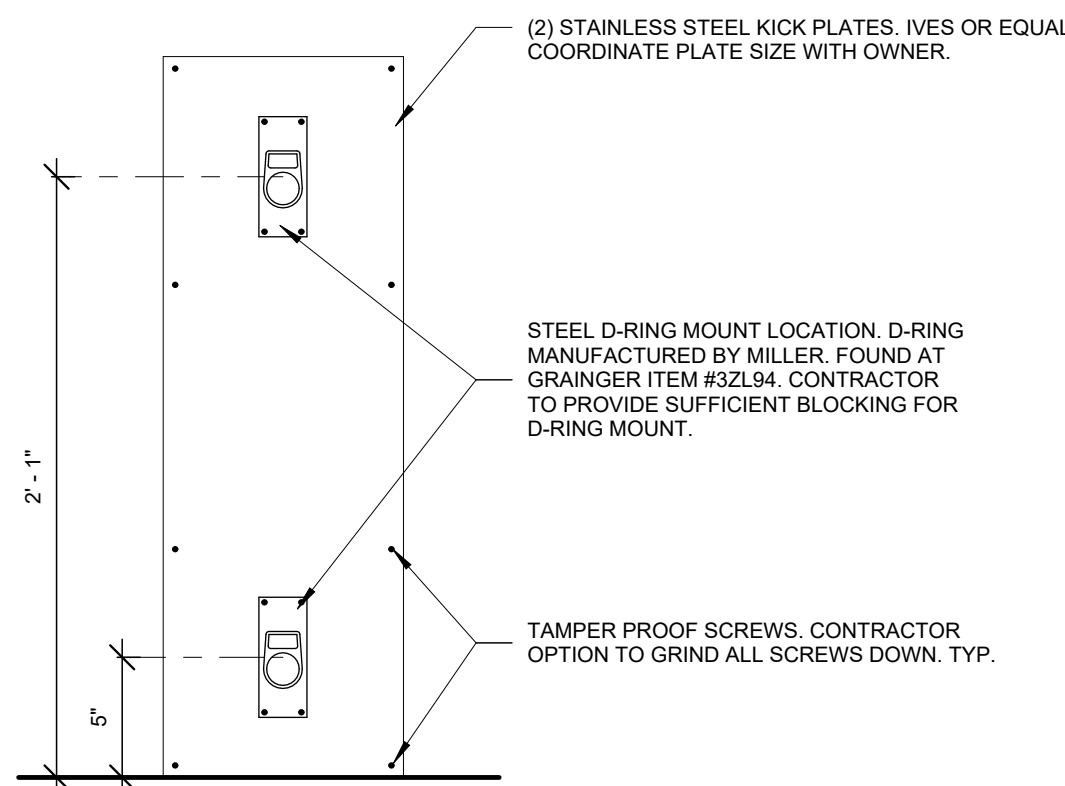
F3 SHOWER 120 - WEST ELEV.
3/8" = 1'-0"



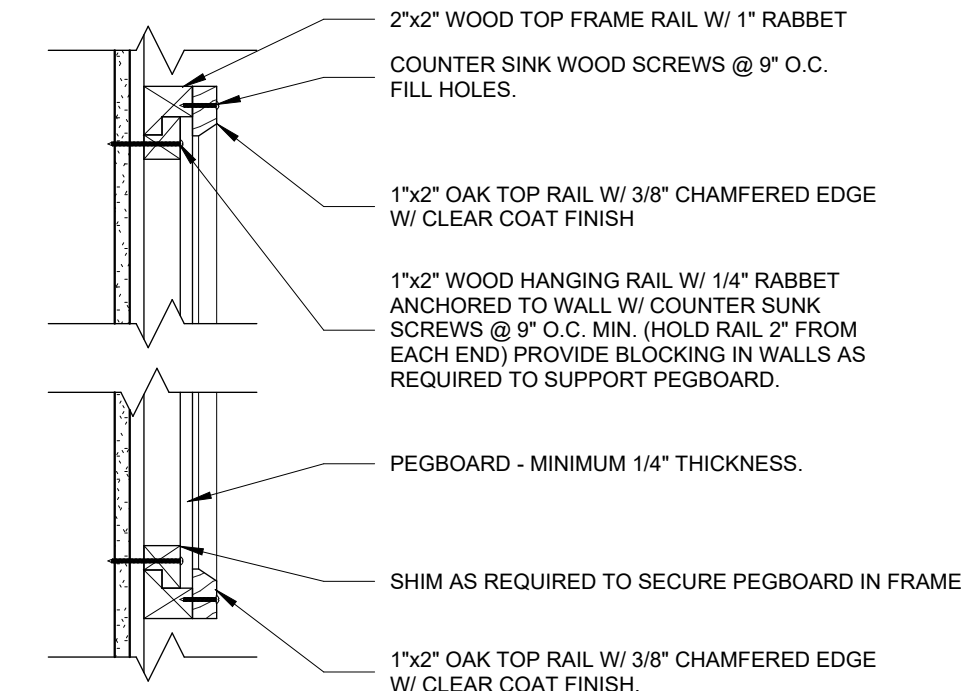
F4 SHOWER 119 - WEST ELEV.
3/8" = 1'-0"



F6 SHOWER 119 - NORTH ELEV.
3/8" = 1'-0"

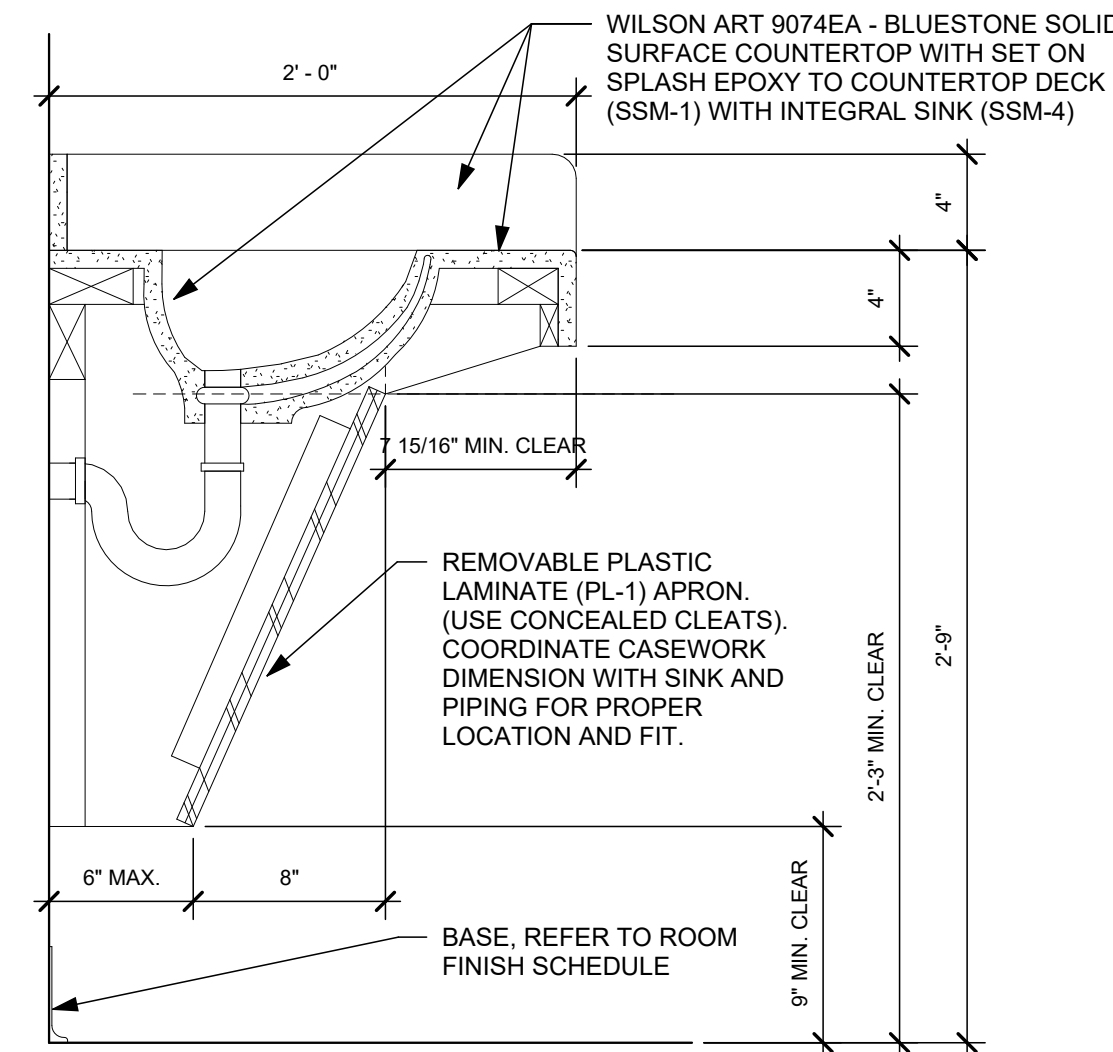


B5 D-RING DETAIL
1 1/2" = 1'-0"



- NOTE:
- OVERALL SIZE OF PEGBOARD TO BE 4'H x 8'W INCLUDING FRAME.
 - UTILIZE SAME CONSTRUCTION DETAILS FOR WALL HUNG WHITE BOARD.

C5 PEG BOARD & WHITE BOARD DETAIL
1 1/2" = 1'-0"



E2 ADA SINK
1 1/2" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

- SOLID SURFACE COUNTERTOP (SSM-1) AND BACKSPLASH. PROVIDE CUT IN COUNTERTOP AROUND PASS THROUGH COUNTER.
- PORCELAIN TILE BASE (PTWB-1).

GENERAL NOTES

- REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.
- EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.
- SEE SHEET A0.3 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.
- ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.
- ALL WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
- PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.
- INSTALL SOLID WOOD (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, MONITORS, EQUIPMENT, ETC.
- REFER TO P.M.E ENGINEERING DRAWINGS FOR ADDITIONAL EQUIPMENT, OUTLETS, RECEPTACLES, ETC. NOT SHOWN ON ARCHITECTURAL DRAWINGS.
- PATCH AND REPAIR WALL SUBSTRATE WHERE ELECTRICAL AND MECHANICAL DEVICES HAVE BEEN REMOVED.
- CONSTRUCT A PLASTIC LAMINATE FILLER STRIP BETWEEN CASEWORK AND SOFFITS WHERE NECESSARY.
- ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.
- PROVIDE (1) GROMMET FOR EVERY 4'-0" OF LINEAR COUNTERTOP WORKSTATION. COORDINATE LOCATION OF GROMMETS FOR ALL WORK COUNTERTOPS WITH OWNER.
- ALL COUNTERTOPS 25 1/2" DEEP U.N.O.
- ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.
- CASEWORK LOCKS ARE LABELED "L".

- P. CASEWORK TYPES (PREFIX) ABBREVIATION
- ASB STAINLESS STEEL SINK SHROUD
 - ASM SOLID SURFACE SINK SHROUD
 - SB SOLID SURFACE SINK SHROUD
 - B BASE CABINET WITH TOP DRAWER(S)
 - BB BASE CABINET
 - BD BASE DRAWER CABINET
 - FC (2) FILE CABINET
 - FFC (3) FILE CABINET
 - STC SOLID SURFACE TALL CABINET
 - TC TALL CABINET
 - W WALL CABINET
 - WO SOLID SURFACE WALL OPEN CABINET
 - WM MICROWAVE WALL CABINET
 - CW CORNER WALL CABINET

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PLUMBING FIXTURE SCHEDULE													
ITEM	FIXTURE DESCRIPTION	FIXTURE	CONNECTIONS			MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
L1	LAVATORY/ INTEGRAL BOWL/ SINGLE HOLE FAUCET/ ASSE 1070 MIXING DEVICE	BY OTHERS	1/2"	1/2"	1-1/4"	C'TOP	KOHLER #K-97282-4	MCGUIRE #LFBV2165	W/ TRAP	MCGUIRE #PW2150WC	--	LEONARD # LF170	
SH1	SHOWER/ 36"x36"/ STALL BY OTHERS/ CENTER DRAIN/ PRESSURE BALANCING MIXING VALVE/ FIXED HEAD AND HAND-HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	VALVE 40" HEAD 78"	LEONARD #4505-H-03-501P(G)	UNIT	UNIT	NOTE 1	--	--	1
SH2	SHOWER/ 36"x72"/ STALL BY OTHERS/ CENTER DRAIN/ FIXED SHOWER HEAD W/ SLIDE BAR & HAND-HELD SHOWER/ THERMOSTATIC MIXING VALVE/ ASSE 1018	BY OTHERS	1/2"	1/2"	3"	VALVE 40" HEAD 78"	LEONARD #4505-H-03-501P(G)	UNIT	UNIT	NOTE1	--	--	1
BF1	BOTTLE FILLER/ ST. ST./ IN-WALL MOUNTED/ 8.0 GPH CAPACITY/ REFRIGERATED/ FILTERED	ELKAY #LZW5M8K	-	1/2"	1-1/4"	27" TO RIM	UNIT	BALL VALVE	UNITE	CAST BRASS	FRAME #MFWS100	FILTER #EWF3000	2

EQUALS
KOHLER FAUCETS - AMERICAN STANDARD, ZURN, CHICAGO
LEONARD SUPPLY - POWERS
ELKAY BOTTLE FILLERS - HAWES, MURDOCK, SLOAN, ZURN
MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"
MCGUIRE - WATTS, BRASS CRAFT

NOTES:
1. TRAP SAME MATERIAL AS SANITARY PIPING.
2. COORDINATE ELECTRICAL POWER WITH E.C. WITH GFCl. 1 FLA, 115V/1PH
3. COORDINATE DRAIN

PIPING SYSTEM		VALVE TYPE					
		BUTTERFLY	BALL	CHECK	GATE	BALANCING	PLUG
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER			B11, B14	C11			
INTERIOR NATURAL GAS 3" AND SMALLER			B17				
EXTERIOR NATURAL GAS 2" AND SMALLER			B18				P12
TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION		
B11	NIBCO T-585-80-LF, 150 W.S.P., 2 PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND STEM, TFE SEAT AND SEAL, HANDLE, NSF/ASME 61	B17	NIBCO T-FF-600A, 600 PSI NON-SHOCK COLD, 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING, NSF 61		
B14	APOLLO 70LF-240, 150 WSP, 2 PIECE LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61	B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.33	P12	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33		

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

PIPING SYSTEM		TYPE	
DOMESTIC COLD, HOT AND RECIRCULATING WATER		C1, C4, C5	
DOMESTIC COLD WATER BELOW GRADE		C8, PX1	
NATURAL GAS ABOVE GROUND AT PRESSURES 5 PSI & LESS		S1, S2, S6	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS
C4	GROOVED COPPER TYPE "L" HARD COPPER ASTM B88 COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 607 COUPLING	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S6	PRESS-FIT BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3, ANSI LC-4/CSA 6.32, & ASTM F3226
C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	PX1	PEX TUBING CROSSLINKED POLYETHYLENE TUBING, SDR 9, ASTM F877 METAL INSERT FITTINGS WITH COPPER OR STEEL CRIMP RING

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

PIPING SYSTEM		TYPE	
SANITARY PIPING BELOW FLOOR SLAB IN GRADE		P1, C1, C12	
SANITARY & VENT PIPING ABOVE THE FLOOR		C1, C12	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	P1	PVC SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS
C12	HUB & SPIGOT CAST IRON ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564		
NOTE: IN ABOVE CEILINGS SPACES USED AS RETURN AIR PLENUMS, SANITARY,STORM, AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C12. COORDINATE WITH H.C. FOR RETURN AIR PLENUMS LOCATIONS			
SANITARY, STORM, AND VENT PIPING ABOVE THE FLOOR SLAB AND WITHIN WALLS MAY BE PVC TYPE P1, ONLY IF ALL (ALL TRADES) WALL PENETRATIONS ARE SEALED TO PREVENT THE PASSAGE OF SMOKE INTO RETURN AIR PLENUMS. TRANSITION TO CAST IRON SHALL OCCUR WITHIN THE WALL.			

GAS LOAD SCHEDULE

GENERAL NOTES
• PIPING SIZED USING THE LONGEST LENGTH METHOD.
• LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE 402.4(2) OF THE 2015 IFC.

ITEM		LOAD	
FAC - EX.		100	CFH
FAC - EX.		125	CFH
INSTANTANEOUS WATER HEATER - EX.		150	CFH
GAS RADIANT HEATER - EX.		60	CFH
GAS RADIANT HEATER - EX.		25	CFH
RTU-1 - NEW		150	CFH
TOTAL		610	CFH

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS PER PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND OHIO PLUMBING CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- REMOVE ALL ABANDONED PIPING & SUPPORTS.
- SHUT DOWN OF DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- CUT EXISTING FLOOR SLAB AND REPLACE TO MATCH EXISTING GRADE, MATERIALS, AND FINISH. EXCAVATE FOR ALL IN GRADE UNDERFLOOR PIPING. BACKFILL AND REPLACE SLAB TO MATCH ADJACENT SURFACE OR GRADE. PUMP WATER FROM EXCAVATIONS AND TRENCHES DURING CONSTRUCTION. EXISTING SERVICES ENCOUNTERED DURING EXCAVATION WORK SHALL BE PROTECTED. ANY SERVICES DAMAGED SHALL BE REPAIRED OR REPLACED. PIPE SHALL BE LAID ON A 6" MINIMUM SAND BED. BACKFILLING OF TRENCHES SHALL BE WITH GRADED PEA GRAVEL OR GRADED COURSE SAND. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINENTRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.
- PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
- PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 2 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 2 HOURS.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
MH	MOUNTING HEIGHT.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B H2	DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET H2.
A H1	SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
---	1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
---	ITEM TO BE REMOVED.
---	EXISTING TO REMAIN.
---	NEW ITEM.

PLUMBING LEGEND

---	SANITARY DRAIN
---	VENT
CD	CONDENSATE DRAIN ABOVE FLOOR OR GRADE
---	COLD WATER
---	HOT WATER
---	HOT WATER RETURN
G	NATURAL GAS
	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
	CHECK VALVE
	BALANCING VALVE
	VALVE ON RISER
	UNION
	CONNECTION, BOTTOM
	CONNECTION, TOP
	DIRECTION OF FLOW
	CAP
C.O.	CLEAN OUT
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.S.	SOIL STACK
V.S.	VENT STACK

PLUMBING INDEX OF DRAWINGS

SHEET	DRAWING TITLE
P0.1	LEGENDS, SCHEDULES & NOTES
P1.0	UNDERGROUND DEMOLITION PLAN
P1.1	1ST FLOOR DEMOLITION PLAN
P2.0	UNDERGROUND NEW WORK PLAN
P2.1	1ST FLOOR NEW WORK PLAN
P3.1	DETAILS
P4.1	SOIL, WASTE, AND VENT DIAGRAM

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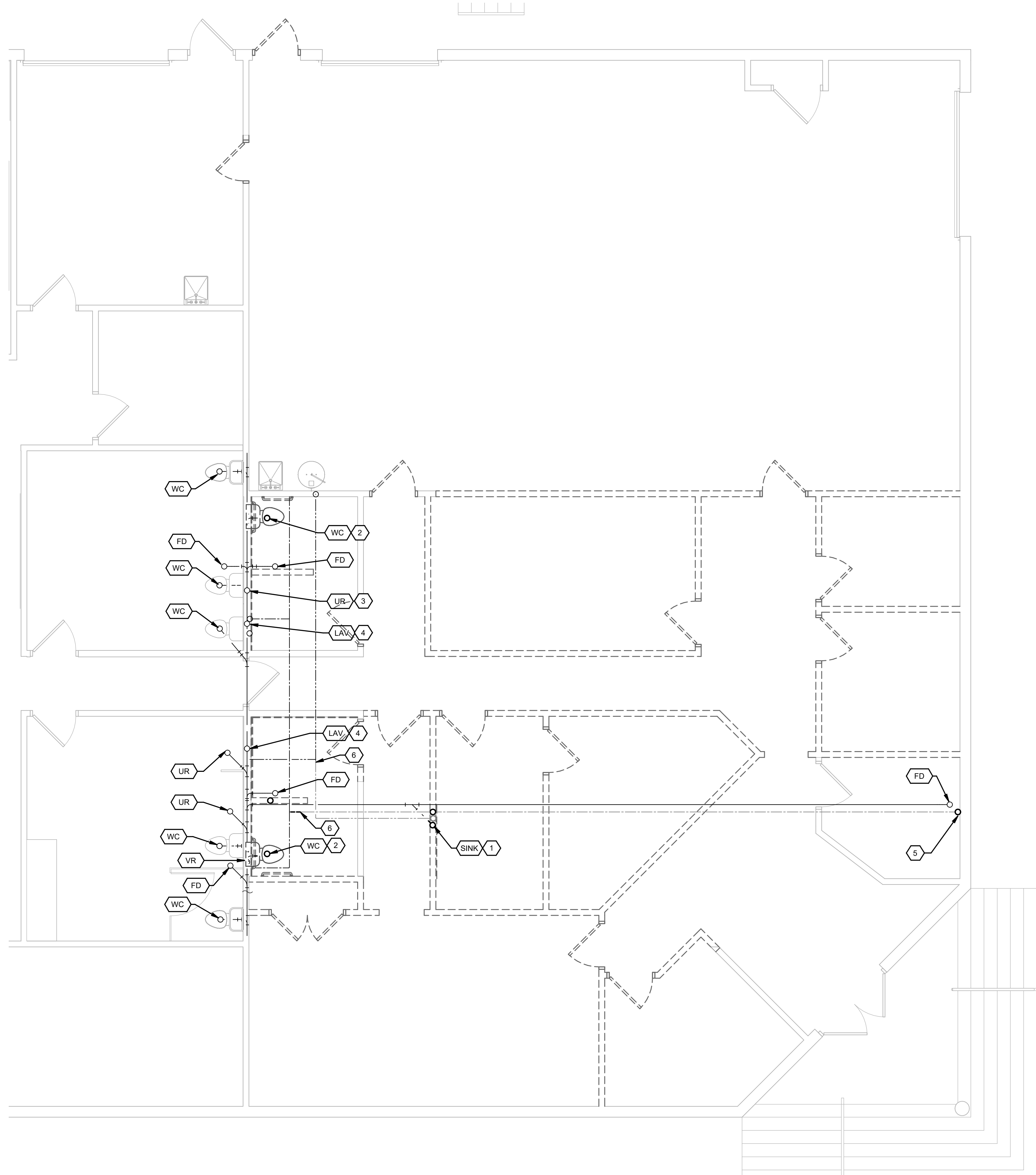
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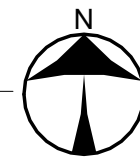
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UNDERGROUND DEMOLITION PLAN

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



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

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 233-3821
PROJECT # 26039

GENERAL NOTE

DUE TO UNKNOWN CONCEALED AND SUBSURFACE PIPING CONDITIONS IN THE BUILDING, DEVIATIONS OF EXISTING SERVICES SHALL BE RECORDED. EXPLORATION OF CONCEALED AND UNDERGROUND PIPING WILL BE REQUIRED. NOTIFY THE ENGINEER UPON MAJOR DEVIATIONS IN PIPE ROUTING FOR FURTHER DIRECTION.

CONSTRUCTION NOTES

1. REMOVE EXISTING SINK, ROUGH-IN AND ALL ASSOCIATED VENT PIPING. CAP SANITARY AND SUPPLY WATER PIPING BELOW SLAB AND GROUT CLOSED.
2. REMOVE EXISTING FLOOR SET WATER CLOSET AND COLD WATER ROUGH-IN.
3. REMOVE EXISTING URINAL AND FLUSH VALVE FOR NEW WALL TILE INSTALLATION. CARRIER, SANITARY AND VENT AND WATER ROUGH-IN TO REMAIN. SAVE FIXTURE FOR REINSTALLATION, REFER TO NEW WORK PLAN.
4. REMOVE EXISTING LAVATORY, SUPPLY FIXTURE AND TRAP. SANITARY, VENT AND SUPPLY WATER ROUGH-IN TO REMAIN. REFER TO NEW WORK PLAN FOR RECONNECTION.
5. REMOVE AND CAP COLD WATER FROM UNDERGROUND BELOW SLAB TO HUMIDIFIER.
6. CAP UNDERGROUND WATER SUPPLY AT THIS POINT. DOWNSTREAM PIPING TO BE ABANDONED.

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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

BUILDING RENOVATION ATF DAYTON FIELD OFFICE RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ISSUE

NO.	DATE	DESCRIPTION
08/31/26		FOR CONSTRUCTION

DATE 08/31/26

JOB NO. 4301.01

DRAWN DRH

CHECKED JDZ

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TITLE
**UNDERGROUND
DEMOLITION PLAN**

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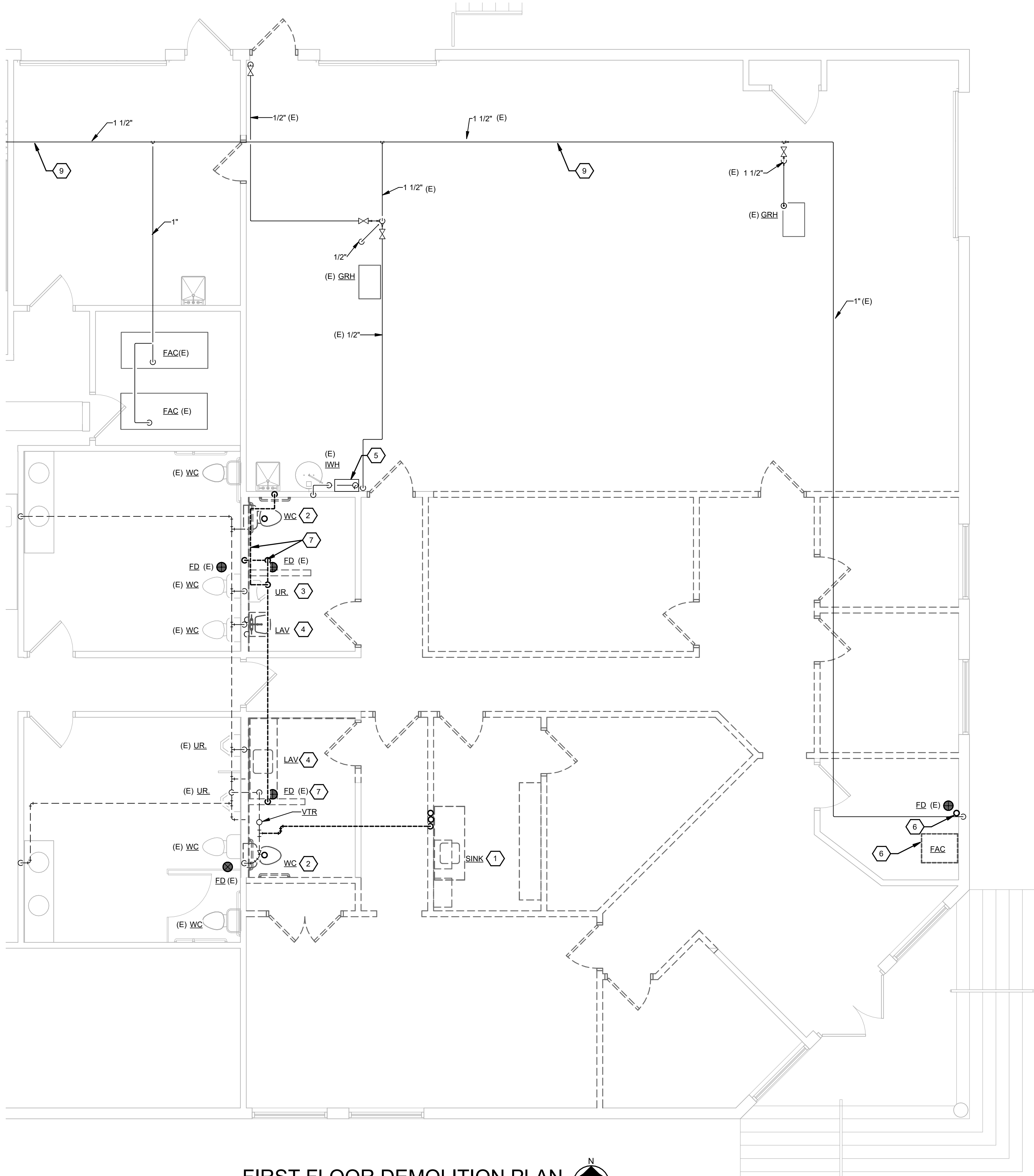
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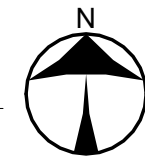
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FIRST FLOOR DEMOLITION PLAN

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



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

GENERAL NOTE

DUE TO UNKNOWN CONCEALED AND SUBSURFACE PIPING CONDITIONS IN THE BUILDING, DEVIATIONS OF EXISTING SERVICES SHALL BE RECORDED. EXPLORATION OF CONCEALED AND UNDERGROUND PIPING WILL BE REQUIRED. NOTIFY THE ENGINEER UPON MAJOR DEVIATIONS IN PIPE ROUTING FOR FURTHER DIRECTION.

CONSTRUCTION NOTES

1. REMOVE EXISTING SINK, ROUGH-IN AND ALL ASSOCIATED VENT PIPING. CAP SANITARY AND SUPPLY WATER PIPING BELOW SLAB AND GROUT CLOSED.
2. REMOVE EXISTING FLOOR SET WATER CLOSET AND COLD WATER ROUGH-IN.
3. REMOVE EXISTING URINAL AND FLUSH VALVE FOR NEW WALL TILE INSTALLATION. CARRIER, SANITARY AND VENT AND WATER ROUGH-IN TO REMAIN. SAVE FIXTURE FOR REINSTALLATION, REFER TO NEW WORK PLAN.
4. REMOVE EXISTING LAVATORY, SUPPLY FIXTURE AND TRAP. SANITARY, VENT AND SUPPLY WATER ROUGH-IN TO REMAIN. REFER TO NEW WORK PLAN FOR RECONNECTION.
5. WATER HEATER FOR SUITE TO REMAIN.
6. REMOVE AND CAP COLD WATER FROM UNDERGROUND BELOW SLAB TO HUMIDIFIER.
7. REMOVE TRAP PRIMER PIPING TO FLOOR DRAIN.
8. REMOVE 1/2" NATURAL GAS PIPING TO FURNACE/AC UNIT. EXISTING 1" SUPPLY TO REMAIN. REFER TO NEW WORK PLAN FOR RECONNECTION.
9. NATURAL GAS PIPING MAIN IN ATTIC ABOVE.

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TITLE
1ST FLOOR DEMOLITION PLAN

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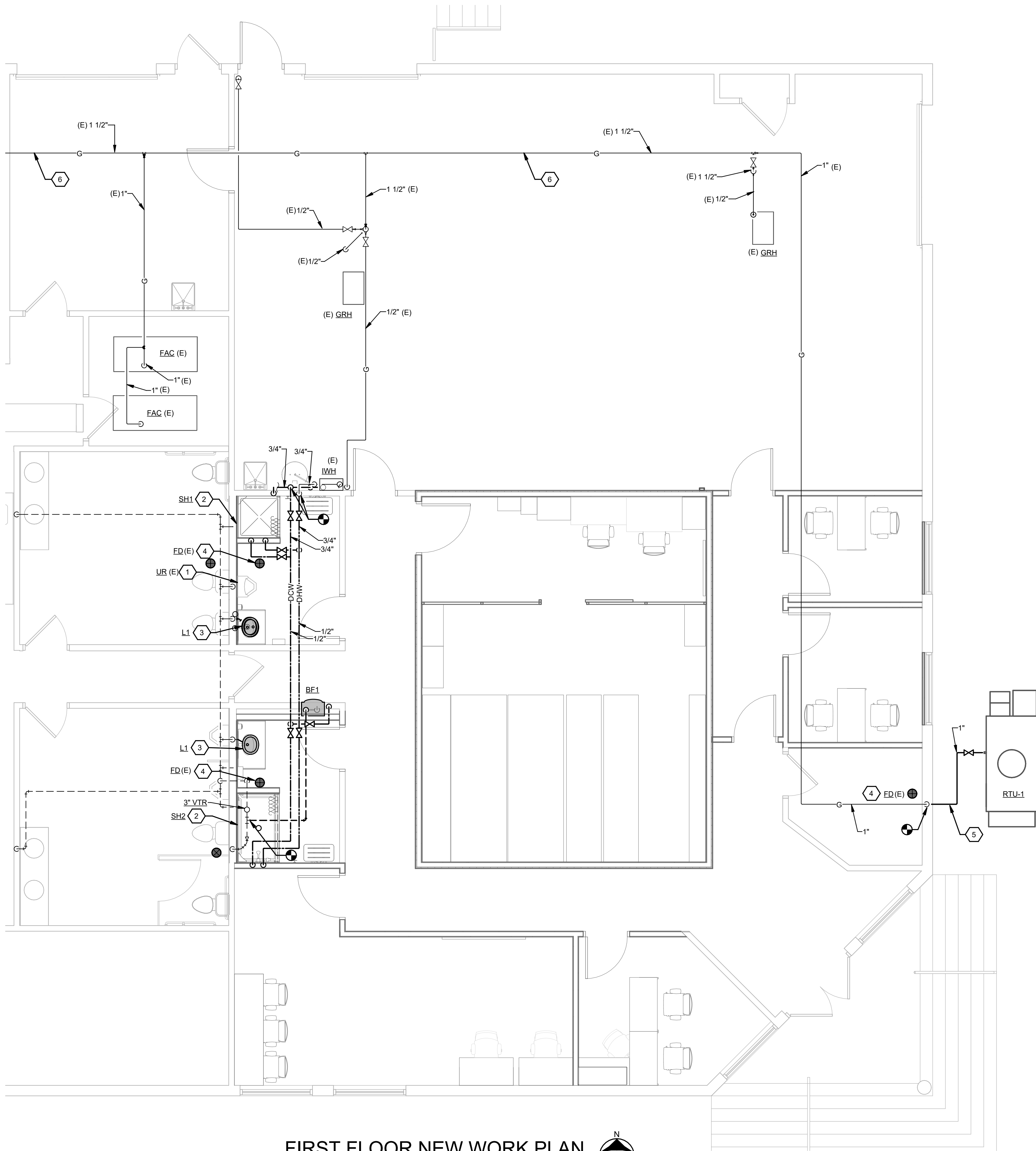
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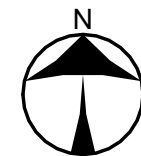
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FIRST FLOOR NEW WORK PLAN

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



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

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Phone (937) 233-3821
PROJECT # 26039

CONSTRUCTION NOTES

1. REINSTALL EXISTING URINAL ON EXISTING CARRIER. COORDINATE WITH G.C. FOR TILE. RECONNECT SANITARY WITH NEW CHROME-PLATED BRASS P-TRAP EQUAL TO MCGUIRE #8912. REINSTALL EXISTING FLUSH VALVE TO EXISTING COLD WATER ROUGH IN.
2. SAW CUT FLOOR SLAB TO CONNECT TO EXISTING SANITARY FROM REMOVED TOILET FOR SHOWER DRAIN.
3. CONNECT NEW LAVATORY SUPPLY WATER, SANITARY DRAIN AND VENT TO EXISTING ROUGH-IN IN WALL.
4. INSTALL TRAP MAINTENANCE DEVICE IN FLOOR DRAIN.
5. NEW NATURAL GAS PIPING ABOVE GRADE TO GRADE MOUNTED ROOFTOP UNIT. SUPPORT PIPING FROM COATED UNISTRUT AND PRIMER AND PAINT PIPING. REFER TO NATURAL GAS CONNECTION DETAIL.
6. NATURAL GAS MAIN PIPING IN ATTIC SPACE ABOVE.

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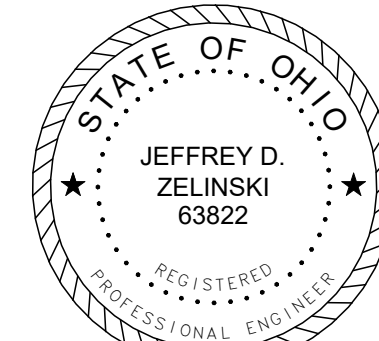
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EXPIRATION DATE 12/31/2027

BUILDING RENOVATION ATF DAYTON FIELD OFFICE RENOVATION PHASE 2

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TITLE
1ST FLOOR NEW WORK
PLAN

SHEET NO.

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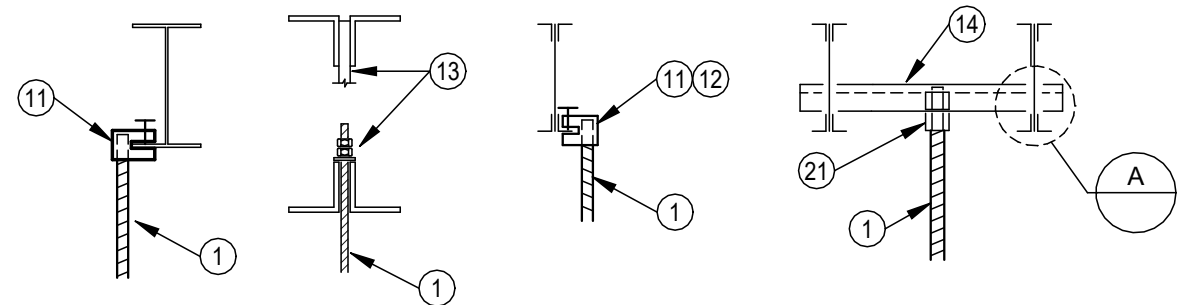
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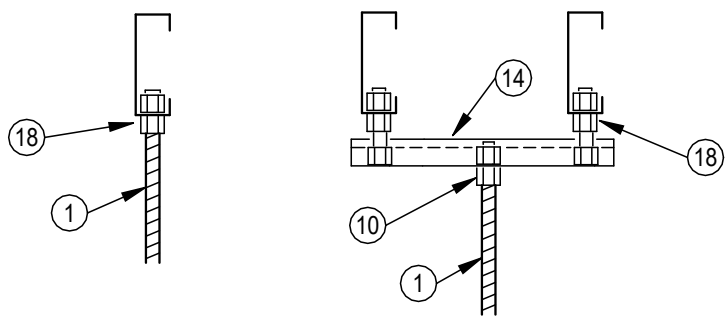
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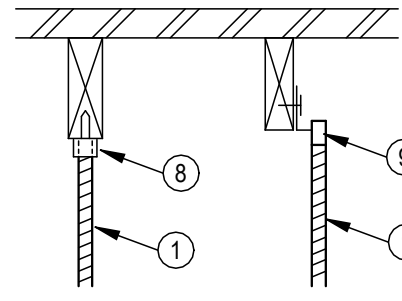
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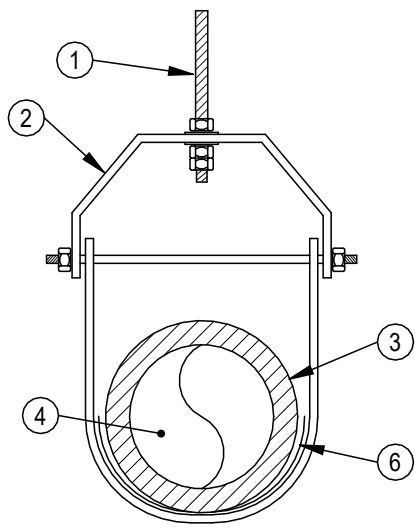
STEEL JOIST AND BEAM CONSTRUCTION



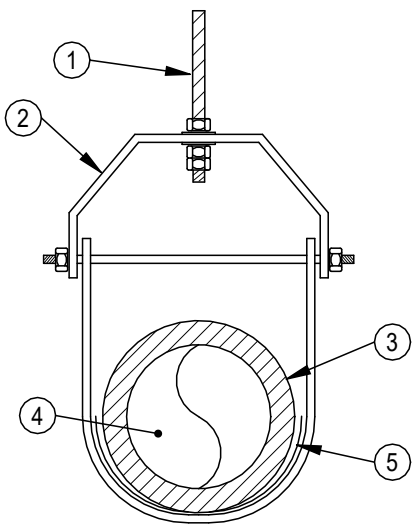
COLD ROLLED STEEL CONSTRUCTION
NOTE: APPLIES TO BOTH 'C' CHANNEL AND 'C' CHANNEL JOISTS



WOOD CONSTRUCTION



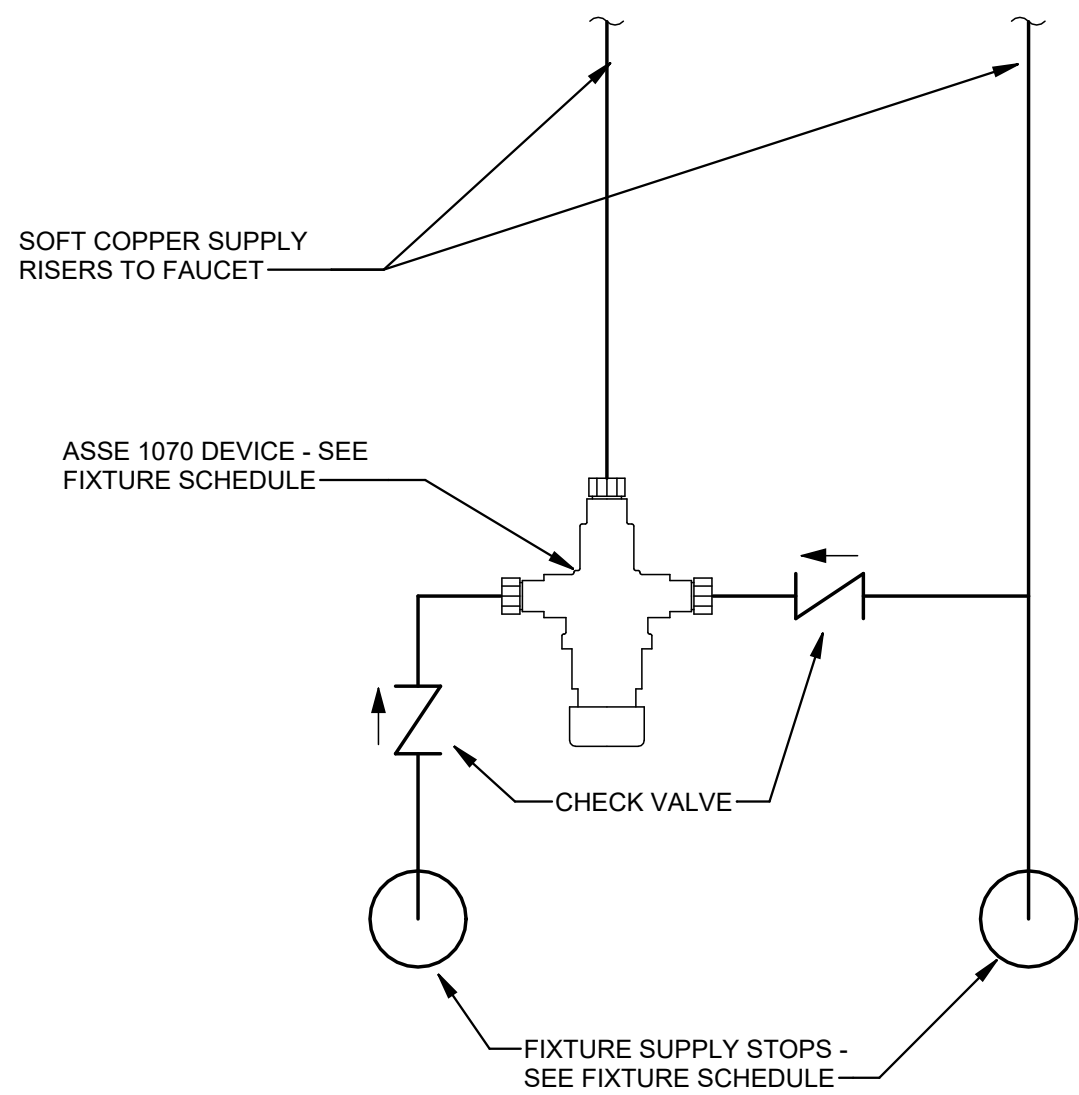
PIPING 2.5" & LARGER



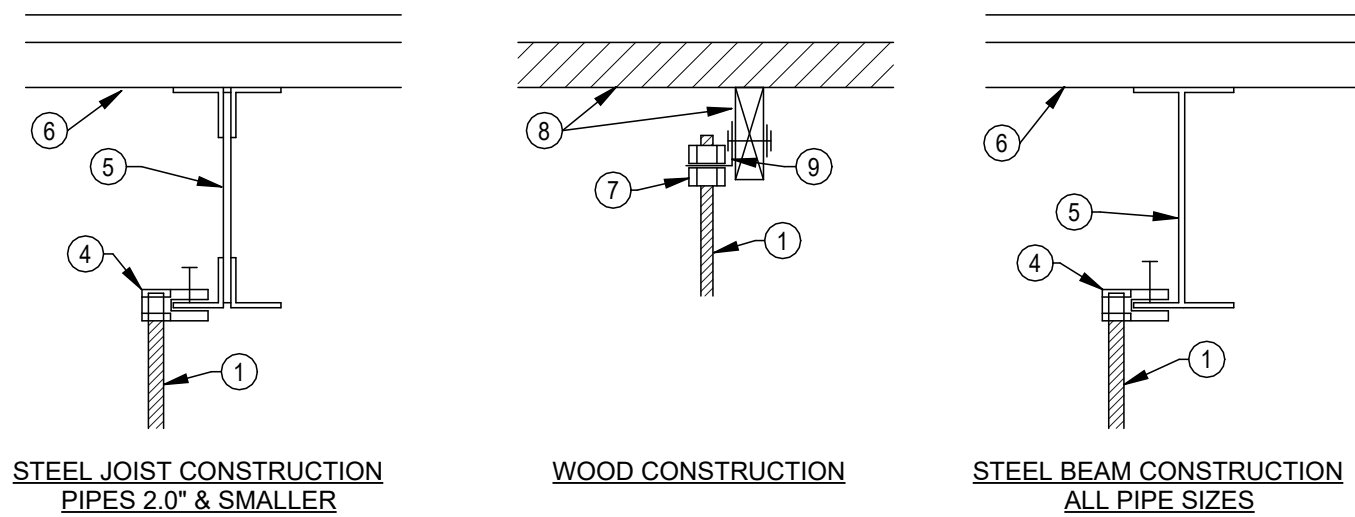
PIPING 2.0" & SMALLER

- 1 GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
- 2 STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG.260.
- 3 PIPE INSULATION.
- 4 PIPE.
- 5 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
- 6 18" LONG INSULATED PIPE SADDLES. PIPE SHIELDS, INC. A1000 OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PHENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
- 7 PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
- 8 VERTICAL THREADED ROD HANGER. PRE-DRILL PILOT HOLE.
- 9 WOOD SIDE WALL BRACKET. EQUAL TO ANVIL #551.
- 10 RETAINING NUT & SQUARE WASHER UTILIZED TO ATTACH THREADED ROD TO UNISTRUT.
- 11 THREADED ROD UNIVERSAL C-TYPE CLAMP.
- 12 2.0" & SMALLER PIPE.
- 13 2.5" & LARGER PIPE.
- 14 UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS.
- 15 GALVANIZED BOLT & NUT.
- 16 SLOPED STEEL STRUCTURE.
- 17 SWIVEL ATTACHMENT, AFCON #AF777 OR EQUAL. BENDING THREADED ROD NOT ACCEPTABLE.
- 18 RETAINING NUT & WASHERS.

1 PIPE HANGERS
N.T.S. CLEVIS HANGER, INSULATED PIPE, STRUCTURAL ATTACHMENTS

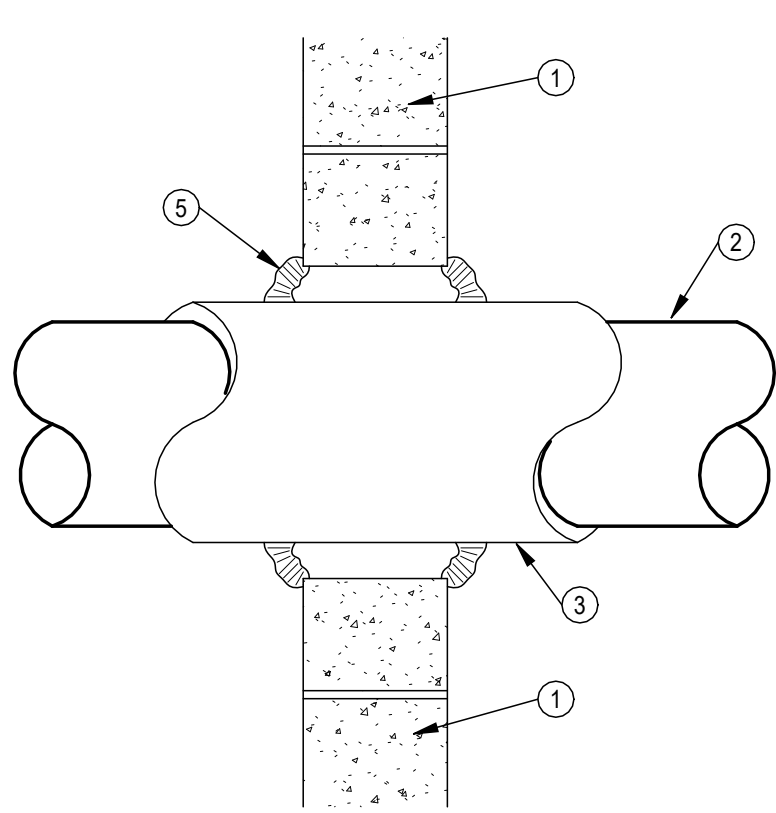


3 ASSE 1070 DEVICE
N.T.S.

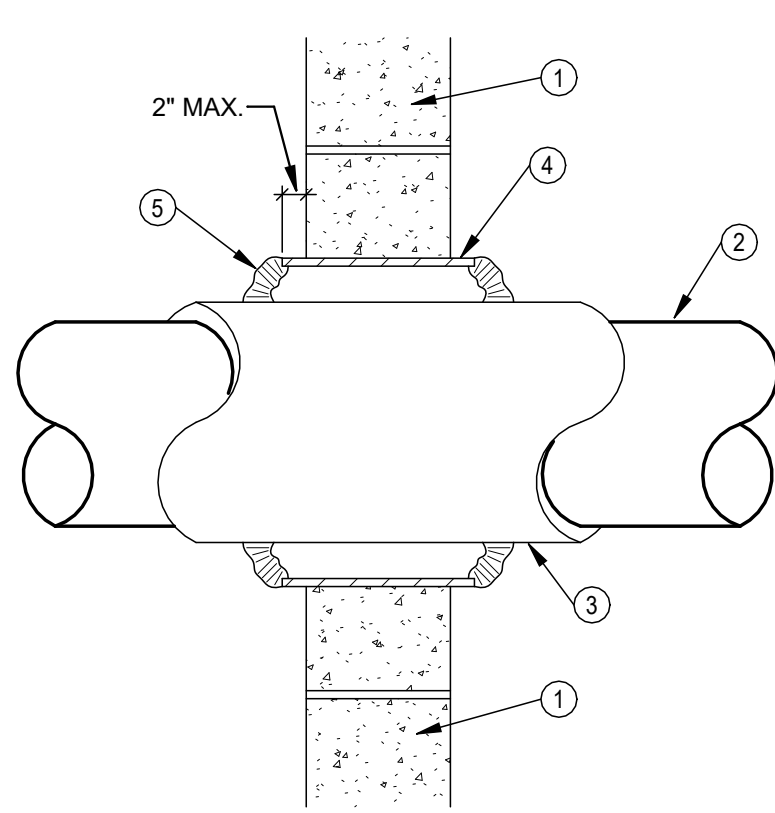


- 1 GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
- 2 STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
- 3 PIPE.
- 4 THREADED ROD BEAM CLAMP.
- 5 STEEL JOIST OR BEAM.
- 6 METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.
- 7 RETAINING NUTS & WASHERS.
- 8 WOOD DECK & BEAM.
- 9 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.

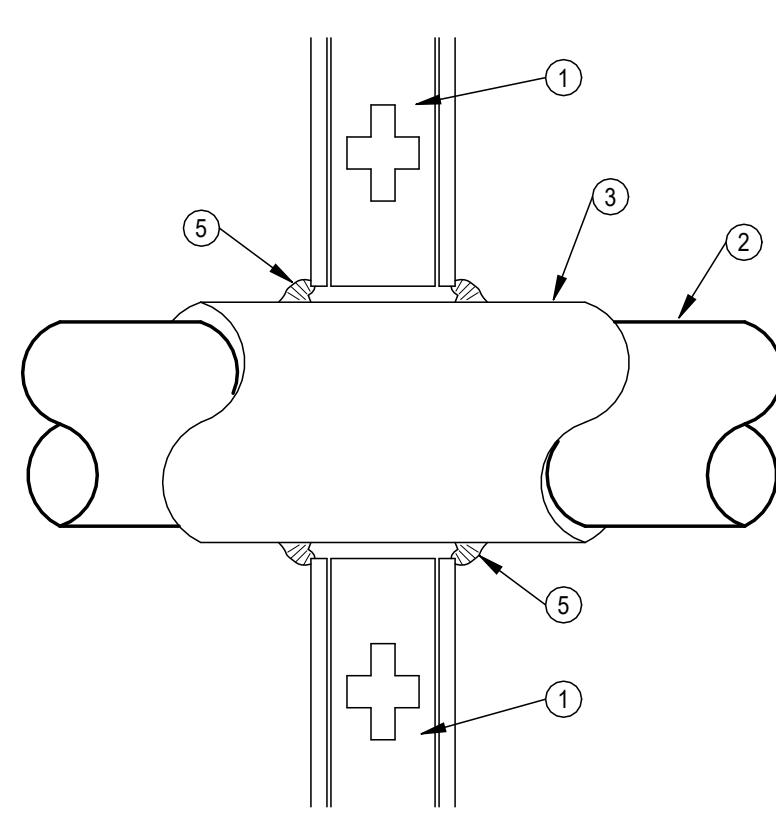
4 PIPE HANGER - NON INSULATED PIPE
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES



GYPSUM CONSTRUCTION
ALL PIPE SIZES

GENERAL NOTE:

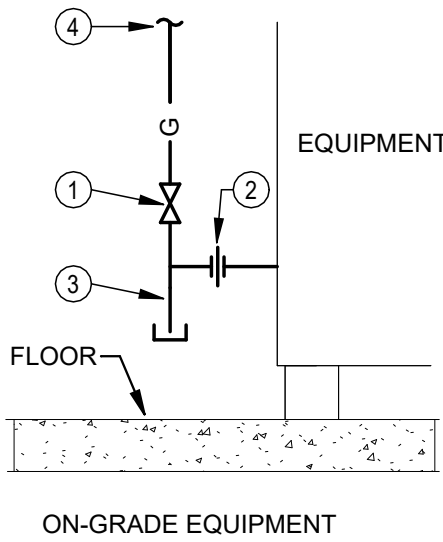
A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
- IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
- FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
- IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
- IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.

B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

- 1 FULL HEIGHT INTERIOR WALL.
- 2 PIPE OR TUBING.
- 3 PIPE INSULATION. CONTINUOUS THROUGH WALL OPENING. SEE SCHEDULE FOR THICKNESS.
- 4 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- 5 CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



- 1 GAS VALVE.
- 2 UNION. (TYPICAL)
- 3 FULL SIZE DIRT LEG.
- 4 SEE PLAN FOR CONTINUATION.

5 NATURAL GAS CONNECTION DETAIL
N.T.S.

A

B

C

D

E

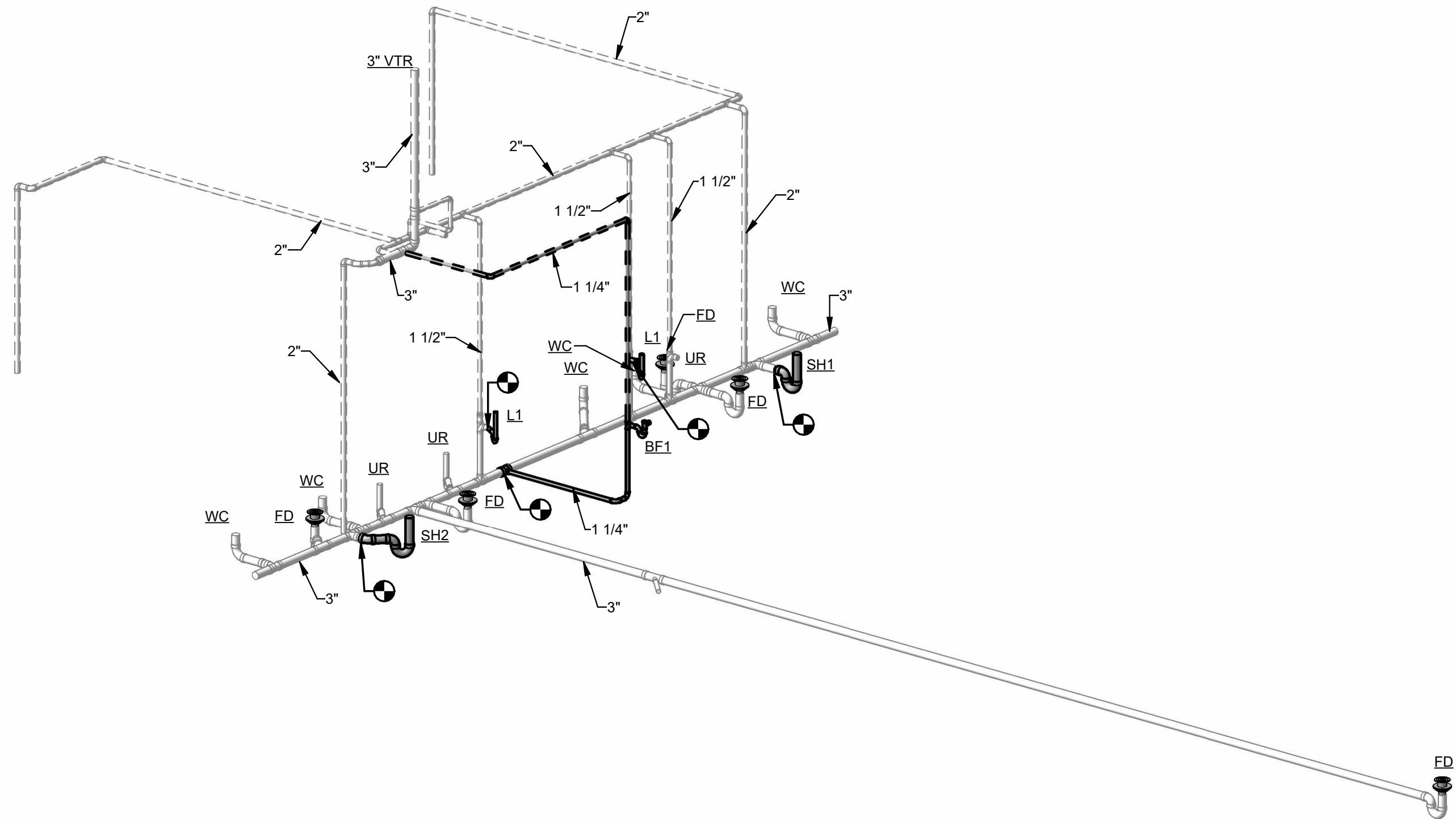
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ISSUE		
NO.	DATE	DESCRIPTION
	08/31/26	FOR CONSTRUCTION

DATE	08/31/26
JOB NO.	4301.01
DRAWN	DRH
CHECKED	JDZ
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TITLE	DETAILS

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SOIL, WASTE & VENT DIAGRAM
N.T.S



JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

ISSUE		
NO.	DATE	DESCRIPTION
	08/31/26	FOR CONSTRUCTION

DATE	08/31/26
JOB NO.	4301.01
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CHECKED	JDZ

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TITLE
**SOIL, WASTE, AND VENT
DIAGRAM**

GENERAL HVAC REMOVAL NOTES

- A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.
- B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED AND MARKED.
- C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED. AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES, NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.
- D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.
- E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.
- F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.
- G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSALS REGULATED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.
- H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.
- I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.
- J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.
- CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.
BRICK WALLS - TOOTH IN WITH NEW BRICK
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE
- L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.
- M. CEILING REMOVALS - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION OF CEILING GRID AND TILES AS REQUIRED FOR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENTS, IF DAMAGED.

HVAC CLIMATE DESIGN NOTES

1. THE HVAC SYSTEM IN THE BUILDING IS DESIGNED FOR A SUMMER INDOOR AIR TEMPERATURE OF 75°F/50%RH AND A WINTER INDOOR AIR TEMPERATURE OF 70°F.
2. AIR TEMPERATURE DESIGN CONDITIONS:
- A. SUMMER CONDITIONS:
- a. OUTSIDE AIR: 90°F DRYBULB / 74°F WETBULB
- b. RETURN AIR: 78°F DRYBULB / 50% RELATIVE HUMIDITY
- B. WINTER CONDITIONS:
- a. OUTSIDE AIR: 0°F DRYBULB
- b. RETURN AIR: 66°F DRYBULB

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS. ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

RATED ASSEMBLY PENETRATIONS

GENERAL NOTES:

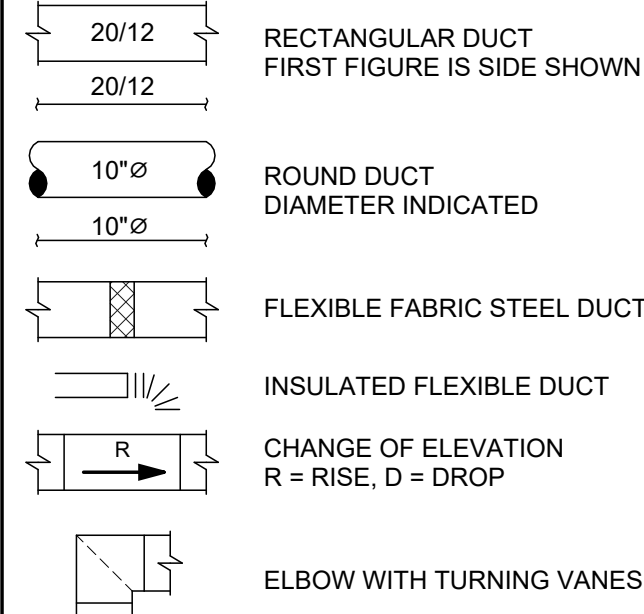
1. REFER TO THE ARCHITECTS LIFE SAFETY DRAWING FOR INFORMATION ON RATED ASSEMBLIES ON THIS PROJECT.
2. REFER TO SPECIFICATION 23.0004, 23.0529, 23.3300 FOR INFORMATION ON SYSTEMS SPECIFIED PER THIS SCHEDULE.
3. FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPER ACCESS DOORS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION. FOR HORIZONTAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED ON THE BOTTOM OF DUCTWORK. FOR VERTICAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED AT THE FLOOR LEVEL ON THE HIGHER FLOOR (I.E., A PENETRATION THROUGH THE 1ST AND 2ND FLOOR SHALL HAVE THE ACCESS DOOR LOCATED ON THE 2ND FLOOR LEVEL).

ASSEMBLY TYPE	DUCTWORK				PIPING			NOTES
	FIRE DAMPER	FIRE STOPPING	PLIABLE CAULK	SMOKE DAMPER	COMBINATION FIRE / SMOKE	FIRE STOPPING	PLIABLE CAULK	
FIRE BARRIER	●	●				●		1
FIRE WALLS	●					●		
FIRE WALL HORIZONTAL EXIT					●	●		
FIRE BARRIER HORIZONTAL EXIT					●	●		
SHAFT ENCLOSURE	●	●		●	●	●		2
FIRE PARTITIONS	●					●		1
SMOKE PARTITIONS			●	●			●	
SMOKE BARRIER		●		●		●		3
RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●	●	4
NON-RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●		5

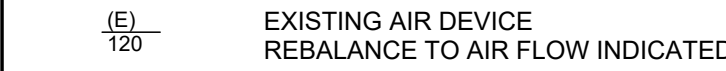
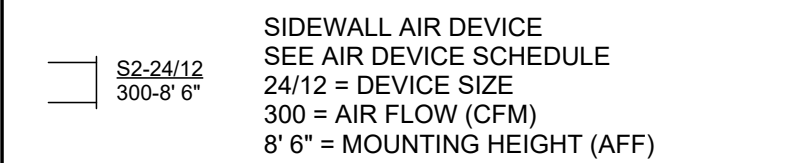
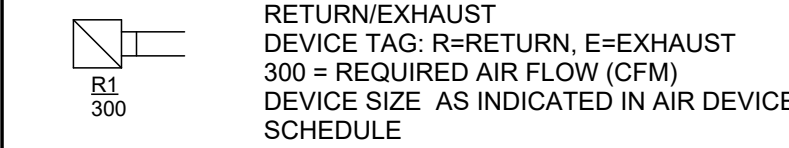
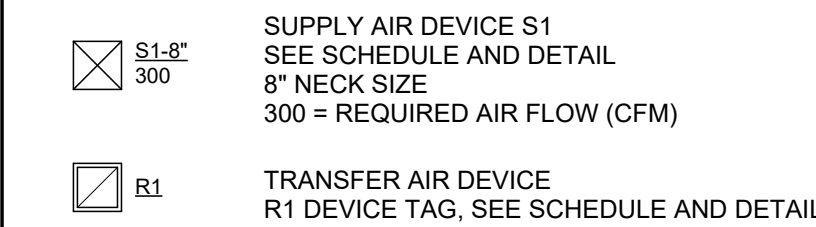
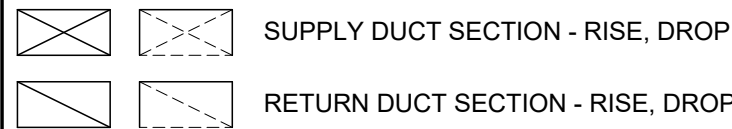
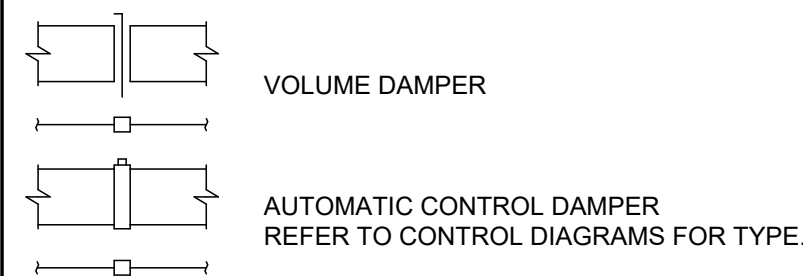
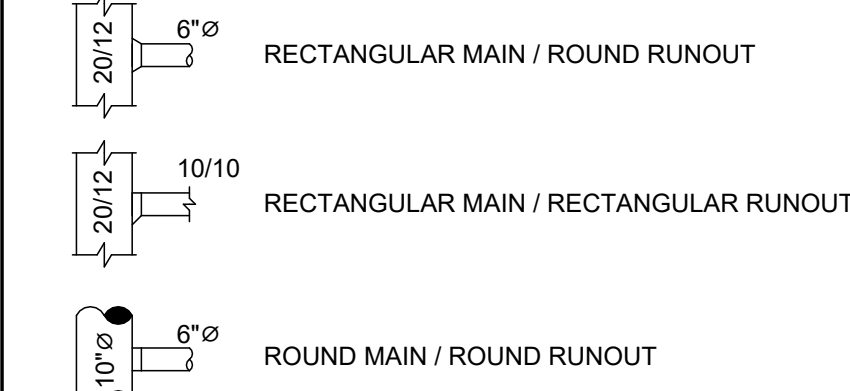
NOTES:

1. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING.
2. PROVIDE FIRE DAMPER, SMOKE DAMPER, OR COMBINATION FIRE/SMOKE ONLY WHERE INDICATED ON DRAWINGS. OBC 717.5.3 EXCEPTIONS ALLOW THE ELIMINATION OF SOME DAMPERS. WHERE FIRE DAMPERS ARE NOT INDICATED, PROVIDE FIRE STOPPING.
3. PROVIDE SMOKE DAMPERS ONLY WHERE INDICATED ON DRAWING. FOR DUCTS WITHOUT SMOKE DAMPERS, PROVIDE FIRE STOPPING.
4. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING. NOTE: DUCTS PENETRATING RATED FLOORS MAY BE WITHIN A SHAFT ENCLOSURE, REFER TO SHAFT REQUIREMENTS.
5. DUCTS PENETRATING NON-RATED, NON-COMBUSTIBLE FLOORS AND NOT ENCLOSED IN A SHAFT REQUIRE A FIRE DAMPER. DUCTS PENETRATING NON-RATED, COMBUSTIBLE FLOORS AND NOT WITHIN A SHAFT REQUIRE FIRE STOPPING.

DUCTWORK LEGEND



DUCT RUNOUTS - REFER TO DETAILS FOR FITTING TYPES



HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS, SCHEDULES & NOTES
H0.2	MATERIAL SCHEDULES
H0.3	EQUIPMENT SCHEDULES
H1.1	DEMOLITION PLAN
H2.1	NEW WORK PLAN
H3.1	DETAILS
H3.2	DETAILS
H3.3	DETAILS

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
MH	MOUNTING HEIGHT.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B H2	DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET H2.
A H1	SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
⊙	CONNECTION, NEW TO EXISTING.
---	ITEM TO BE REMOVED.
---	EXISTING TO REMAIN.
---	NEW ITEM.

TEMPERATURE CONTROLS LEGEND

ABBREVIATIONS

A.I. -	ANALOG INPUT
A.O. -	ANALOG OUTPUT
AFMS -	AIR FLOW MEASURING STATION
BAS -	BUILDING AUTOMATION SYSTEM
DDC -	DIRECT DIGITAL CONTROLS
D.I. -	DIGITAL INPUT
D.O. -	DIGITAL OUTPUT
ECM -	ELECTRICALLY COMMUTATE MOTOR
E.W.T. -	ENTERING WATER TEMPERATURE
L.W.T. -	LEAVING WATER TEMPERATURE
M.C. -	MASTER CONTROLLER
N.O. -	NORMALLY OPEN
N.C. -	NORMALLY CLOSED
SCR -	SILICON CONTROLLED RECTIFIER
VFD -	VARIABLE FREQUENCY DRIVE

SENSORS & TRANSMITTERS

①	TEMPERATURE SENSOR
Ⓟ	PRESSURE SENSOR
Ⓜ	THERMOSTAT - LINE OR LOW VOLTAGE
Ⓜ	HUMIDISTAT
Ⓜ	RELAY

DAMPERS



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A

B

C

D

E

F

PIPE INSULATION SCHEDULE				
SYSTEM & SIZE		INSULATION THICKNESS	TYPE	LOCATION
COOLING COIL CONDENSATE		0.5"	E2	INTERIOR
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEAL, EQUAL TO PABCO-CHILDERS METALS/GERRARD.	

PIPING SYSTEMS - HVAC				
PIPING SYSTEM		TYPE		
CONDENSATE DRAINAGE		C3, P1		
TYPE	DESCRIPTION	TYPE	DESCRIPTION	
C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER	P1	PVC SCHEDULE 40 PVC ASTM D2665 DWV FITTINGS, ASTM D3311 GLUED JOINTS	

DUCTWORK INSULATION SCHEDULE				
SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
SUPPLY AIR DUCT	2"	4	EXTERIOR	
OUTDOOR AIR DUCT & PLEMUNS	1.5"	1	CONCEALED	
OUTDOOR AIR DUCT & PLEMUNS	2"	2	EXPOSED	
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RETURN AIR DUCT	2"	4	EXTERIOR	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	
EXHAUST AIR DUCT & PLENUMS	1.5"	1	EXPOSED	1
LINED RETURN/TRANSFER AIR DUCT		1"	3	CONCEALED & EXPOSED
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE	
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED	
3	OWENS-CORNING QUIET R ROTARY DUCT LINER	KNAUF JM CERTAIN TEED JOHNS MANVILLE	MATERIAL FIBERGLASS DUCT LINER K = 0.23 @ 75 DEG. F JACKET - NONE JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - COMPLIES WITH ASTM C916 TAPE - NONE LEADING EDGES - METAL NOSING	
4	ARMACELL ARMATUFF PLUS	RUBATEX	MATERIAL CLOSED CELL FOIL FILM ELASTOMERIC ON DUCT K = 0.27 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - INTEGRAL JOINTS - BUTT EDGES WITH ADHESIVE FASTENERS - NONE ADHESIVE - COVER DUCT WITH 520 ADHESIVE TAPE - 4" WIDE ARMATUFF	

NOTES:
1. INCLUDES EXHAUST DUCTWORK DOWNSTREAM OF BACKDRAFT DAMPERS THAT THE DUCT INTERIOR WILL BE EXPOSED TO OUTDOOR AIR DURING PERIODS OF NON-USE.

DUCTWORK SYSTEMS SCHEDULE					
DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
RETURN AIR	EXTERIOR	F1	-2"	C	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR	CONCEALED	G1	+3"	B	
SUPPLY AIR	EXTERIOR	F1	+3"	B	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
FLEXIBLE DUCTWORK - RET./EXH./TRANSFER	CONCEALED	C2	+10" -5"	N.A.	
DUCTWORK MATERIALS SCHEDULE					
TYPE	MATERIAL	DESCRIPTION			
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.			
C2	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 4.2 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.			
F1	NON-FIBROUS CLOSED CELL	EQUAL TO THERMADUCT #OD. R = 12 (MIN.) ZERO-FIBER FOAM WITH HIGH IMPACT VINYL SHELL. COMPLIES WITH UL 723 25/50 FLAME/SMOKE RATINGS.			
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.			
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.			

NOTES:
1. DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR CONCEALED AND EXPOSED INSTALLATIONS.
2. PROVIDE PLAQUARD ON ALL ACCESS DOORS STATING "ACCESS PANEL. DO NOT OBSTRUCT."

ISSUE		
NO.	DATE	DESCRIPTION
08/31/26		FOR CONSTRUCTION

DATE	08/31/26
JOB NO.	4301.01
DRAWN	DRH
CHECKED	JDZ

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK

REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD/ECM DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO FAN INSTALLATION DETAILS FOR RESPECTIVE MOUNTING TYPE.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER & SIZE	WALL OPENING (L x W)	CAPACITY			ELECTRICAL	
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	SPEED (RPM)	MOTOR HP	V/PH
EF-1	GEN. EXH.	OFFICES	DIRECT DRIVE SQUARE MIXED FLOW INLINE FAN	#SQ-9-VG	--	750	0.5	1495	1/4	115/1

NOTES

- HOA/SPEED CONTROLLER MOUNTED ON FAN.
- MOTORIZED DAMPER PROVIDED AND INSTALLED BY H.C., E.C. TO PROVIDE POWER TO DAMPER ACTUATOR. REFER TO HOA DETAIL.

CEILING FAN SCHEDULE

BASIS OF DESIGN - GREENHECK

EQUAL BY: BIG ASS FANS, COOK, SCHWANK

UNIT TAG	DESCRIPTION	MODEL #	AIRFLOW	BLADE DIAMETER	DROP TUBE LENGTH	ELECTRIC			NOTES
			(CFM)	(FT)	(FT)	MOTOR HP	FLA	V/PH	
CF-1	DIRECT DRIVE HVLS CEILING FAN	#DC-5-8	10,578	8	2	0.25	5	115/1	ALL

NOTES:

- FACTORY WIRED VFD.
- PROVIDE HVLS WALL MOUNTED KEYPAD CONTROLLER. MOUNT AT 54" AFF.
- DISCONNECT BY E.C.

AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE, REFER TO SPECS FOR EQUALS.

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1

NOTES:

- DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

LOUVER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: GREENHECK, REFER TO SPECIFICATIONS FOR EQUALS.

MAXIMUM 500 FPM ON INTAKE LOUVERS, MAXIMUM 1000 FPM ON EXHAUST LOUVERS.
MINIMUM 50% FREE AREA

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
L1	FIXED BLADE LOUVER DEVICE SIZE - SEE DRAWINGS FRAME SIZE - 6" FRAME	#ESD-635	ALUMINUM	BLACK BIRDSCREEN	ALL

NOTES:

- COLOR - REFER TO SPECIFICATIONS.

Building: Kettering ATF Ph 2		System Tag/Name: RTU-1	
Operating Condition Description: Units (select from pull-down list)		Continuous Operation	
Inputs for System		Name	Units
Floor area served by system		As	sf
Population of area served by system		Ps	p
Design primary supply fan airflow rate		Vpsd	cfm
OA req'd per unit area for system (Weighted average)		Ras	cfm/sf
OA req'd per person for system area (Weighted average)		Rps	cfm/p
Percent increase in Vpsd over minimum required			
Inputs for Potentially Critical zones		Zone Name	Zone Tag
Occupancy Category			
Floor Area of zone		Az	sf
Design population of zone		Pz	p
Design total supply to zone (primary plus local recirculated)		Vzsd	cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			
Zone air fraction of supply air at conditioned analyzed			
Inputs for Operating Condition Analyzed		De	%
Percent of total design airflow rate at conditioned analyzed			
Air distribution type at conditioned analyzed			
Zone air distribution effectiveness at conditioned analyzed			
Primary air fraction of supply air at conditioned analyzed			
Results		System Ventilation Efficiency	Ev
Outdoor air intake required for system		Vof	cfm
Outdoor air per unit floor area		Vof/As	cfm/sf
Outdoor air per person served by system (including diversity)		Vof/Ps	cfm/p
Outdoor air as a % of design primary supply air		Vyp	%
Detailed Calculations		Initial Calculations for the System as a whole	
System primary supply air flow at conditioned analyzed		Vps	cfm
Uncorrected OA intake flow req'd for system		Vou	cfm
Uncorrected OA req'd as a fraction of primary SA		Xs	
Initial Calculations for individual zones		Area outdoor air rate	Ra
People outdoor air rate		Rp	cfm/p
Total supply air to zone (at condition being analyzed)		Vzsd	cfm
Primary airflow to zone (at condition being analyzed)		Vps	cfm
Breathing zone outdoor airflow		Vbz	cfm
Zone outdoor airflow		Voz	cfm
Fraction of zone supply not directly recirc. from zone		Fz	
Fraction of zone supply from fully mixed primary air		Fp	
Fraction of zone OA not directly recirc. from zone		Fz	
OA fraction required in the supply air to the zone		Zs	
OA fraction required in the primary air to the zone		Zps	
System Ventilation Efficiency		Zone Ventilation Efficiency (App A Method)	Evz
System Ventilation Efficiency (App A Method)		Ev	
System Ventilation Efficiency (Table 6.3 Method)		Ev	
Minimum outdoor air intake airflow		OA intake req'd as a fraction of primary SA	Y
Outdoor Air Intake Flow required to System (Table 6.3 Method)		Vof	cfm
OA intake req'd as a fraction of primary SA (Table 6.3 Method)		Y	
OA Temp at which Min OA provides all cooling		Deg F	

VENTILATION GENERAL NOTES

- PER OMC 403.2 EXCEPTION #2, CALCULATIONS ARE BASED ON ASHRAE 62.1 - 2019. THE TABLES ON THIS SHEET ARE THE ASHRAE 62.1 VENTILATION RATE PROCEDURE CALCULATIONS. THIS SPREAD SHEET IS PUBLISHED BY ASHRAE.
- SPREAD SHEETS CALCULATE THE CRITICAL ZONE, UNCORRECTED OUTDOOR AIR FLOW, SYSTEM TOTAL VENTILATION EFFICIENCY, AND A FINAL OUTDOOR AIR INTAKE REQUIRED (Vof).
- CALCULATION SUMMARY

RTU-1:

REQUIRED OUTDOOR AIR: 122 CFM
EXHAUST AIR: 750 CFM
TOTAL OUTDOOR AIR PROVIDED: 750 CFM

PACKAGED ROOFTOP UNITS

UNIT TAG	RTU-1
BASIS OF DESIGN	GREENHECK #RV-20-7B-E-I2
SERVICE	OFFICES
DESCRIPTION	HYBRID AIR-SOURCE HEAT PUMP/ GAS FURNACE ROOFTOP UNIT
MOUNTING	ON-GRADE CONCRETE PAD

AIRFLOW (CFM)	1650
ESP. (" W.G.)	1.0
FAN TYPE	DIRECT DRIVE PLENUM BLOWER
FAN MOTOR BHP/HP	1.03/2
VFD/ECM	VFD

AIRFLOW (CFM)	800
ESP. (" W.G.)	0.05
RELIEF TYPE	BAROMETRIC
CONTROL	GRAVITY BAROMETRIC DAMPER

FILTER	
FILTER	2" MERV 13
COOLING	
DESIGN - 95/76 (DB/WB) O.A. & 78 DB, 50% RH R.A., R-454B	
TOTAL (MBH)	79
SENSIBLE (MBH)	47
ENTER. AIR (DB/WB)	82.4/69.8
SUPPLY AIR (DB/WB)	54.2/54.1

TOTAL (MBH)	49.6
ENTER. AIR (DB/WB)	29
LEAV. AIR (DB)	83.3

CAPACITY (MBH)	49
EAT/LAT (DEG. F)	54/83

GAS INPUT (MBH)	150
OUTPUT (MBH)	121
ENTER. AIR (DB)	36
SUPPLY AIR (DB)	95

MCA	34
MOCF	50
VOLTAGE/PHASE	208/3
EFFICIENCY COMPLIANCE	
EER/IEER	11/17.5
COP AT 47 DEG. F	3.4
FURNACE EFFICIENCY	80.67%

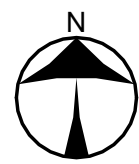
LENGTH (IN.)	89
WIDTH (IN.)	44
HEIGHT - NOT INCLUDING CURB (IN.)	58
CURB HEIGHT (IN.)	24
MAX UNIT OP. WEIGHT (LBS)	1350
UNIT OPTIONS	
ECONOMIZER HOOD	•
CONSTANT AIR VOLUME	•
VARIABLE AIR VOLUME	•
WALL MOUNTED THERMOSTAT/HUMIDISTAT	•

NOTES:

- REFER TO ROOFTOP UNIT MOUNTING DETAIL, DETAIL __, SHEET H__.
- REFER TO COOLING COIL CONDENSATE TRAP PER DETAIL __, SHEET H__.
- REFER TO CONTROLS DIAGRAM FOR SEQUENCE OF OPERATION.

FIRST FLOOR DEMOLITION PLAN

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



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

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone (937) 233-3821
PROJECT # 26039

CONSTRUCTION NOTES

1. EXISTING GAS RADIANT HEATER TO REMAIN.
2. EXISTING THERMOSTAT TO BE RELOCATED.
3. EXISTING FURNACE/AC UNIT, ALL SUPPLY AND RETURN DUCTWORK IN SYSTEM, REFRIGERANT PIPING, COMBUSTION AIR AND FLUE PIPING, AND CONTROLS DEVICES AND WIRING TO BE REMOVED IN ENTIRETY. REMOVE HUMIDIFIER PIPING BACK TO RISER. PATCH EXTERIOR WALL AS REQUIRED.
4. REMOVE EXISTING CONDENSING UNIT.
5. EXISTING CONDENSING UNIT TO REMAIN.
6. REMOVE EXISTING EXHAUST FAN AND DUCTWORK UP THROUGH ATTIC AND ROOF. PATCH GYPSUM BOARD CEILING BELOW STRUCTURE AND ROOFING MATERIAL.

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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2027

BUILDING RENOVATION
ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

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DATE	08/31/26
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TITLE
DEMOLITION PLAN

SHEET NO.

H1.1



A

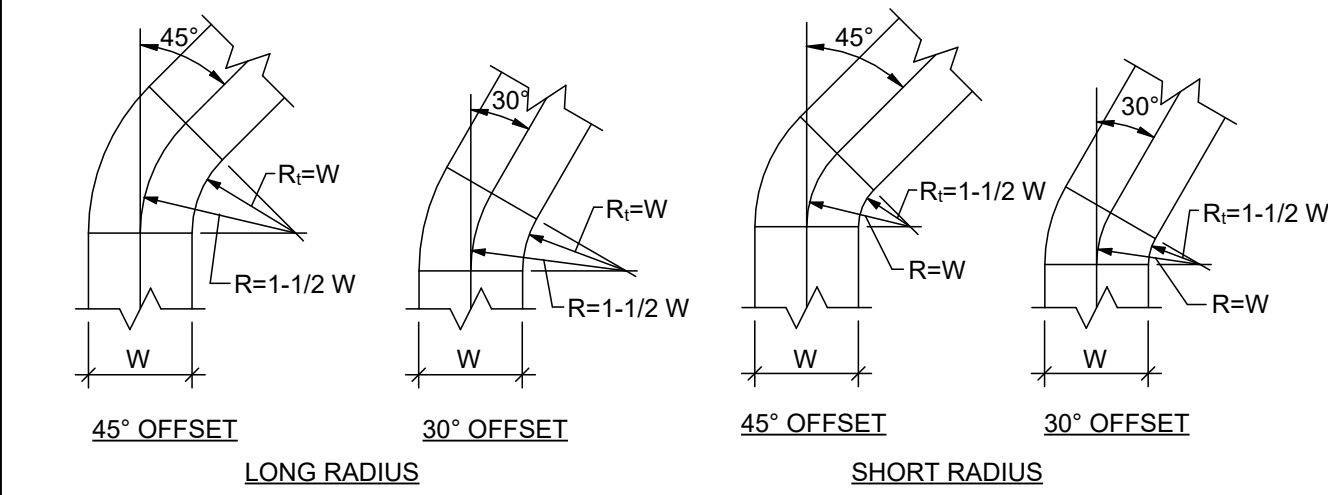
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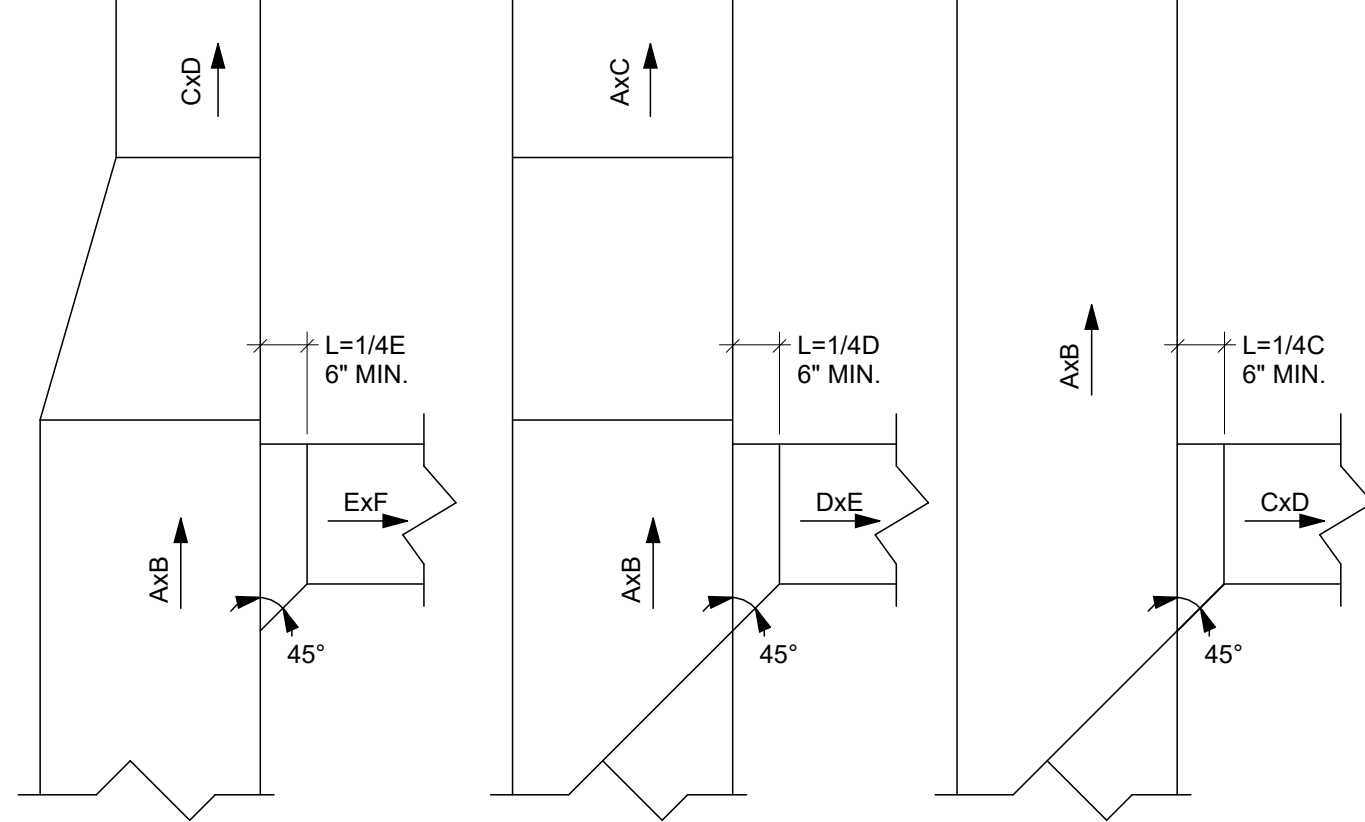
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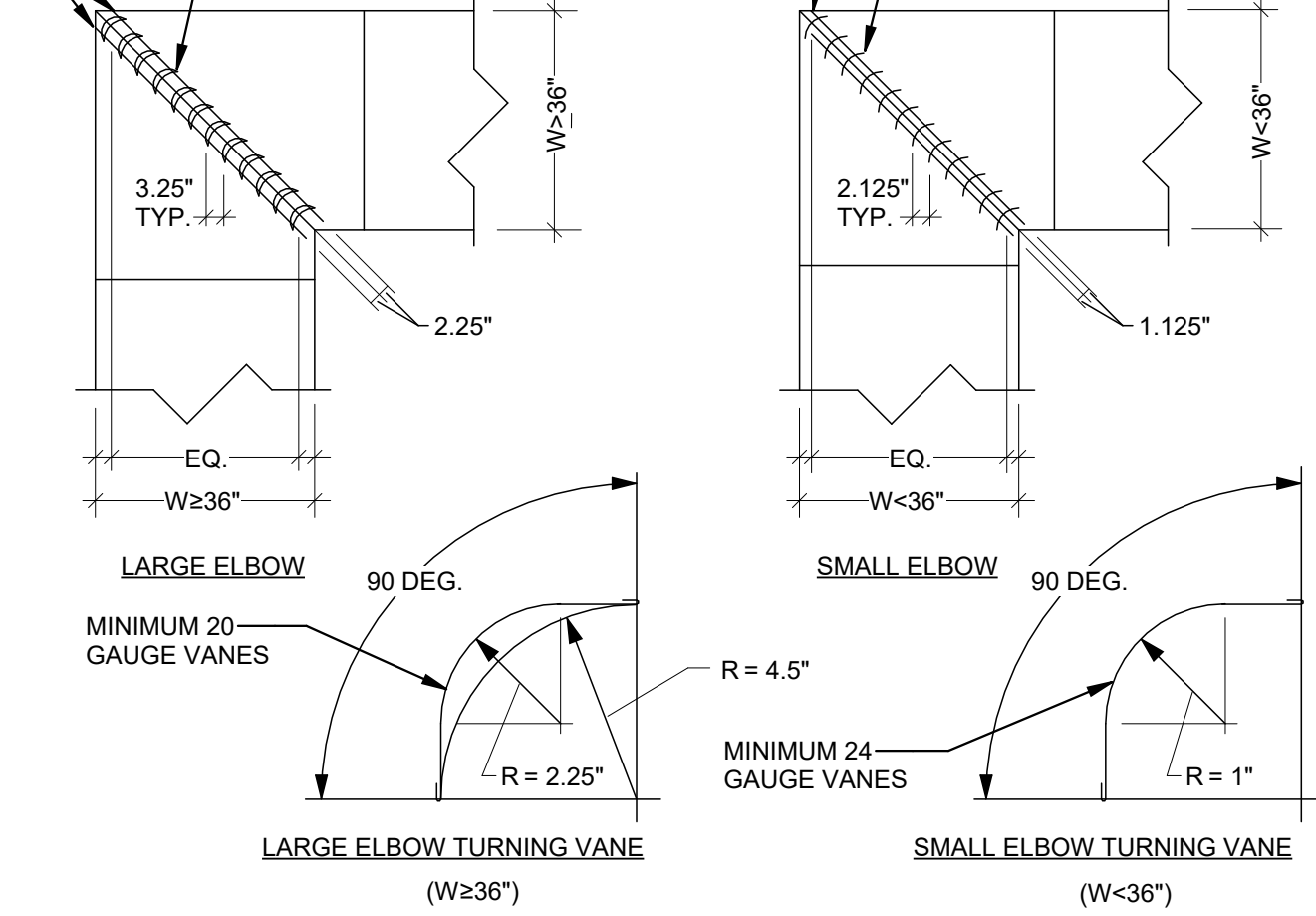
- NOTES:
- USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
 - USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 - ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

1 DUCT FITTINGS - RECTANGULAR 45° & 30° RADIUS ELBOW
N.T.S.



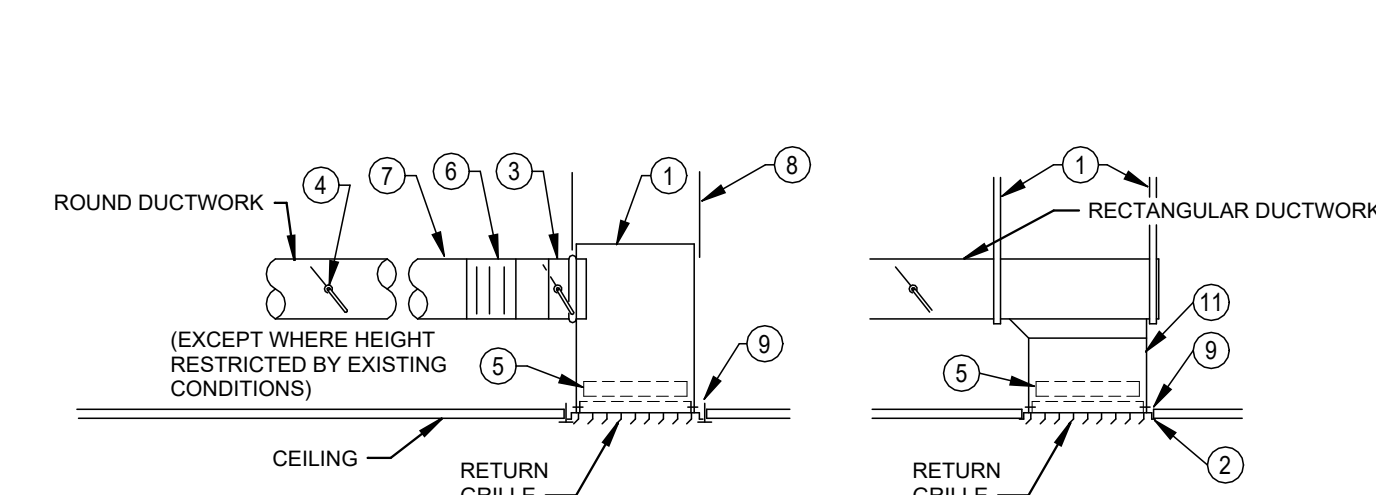
- NOTES:
- DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
 - TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
 - SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
 - TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

2 DUCT FITTINGS - RECTANGULAR 90° SIDE TAP
N.T.S.



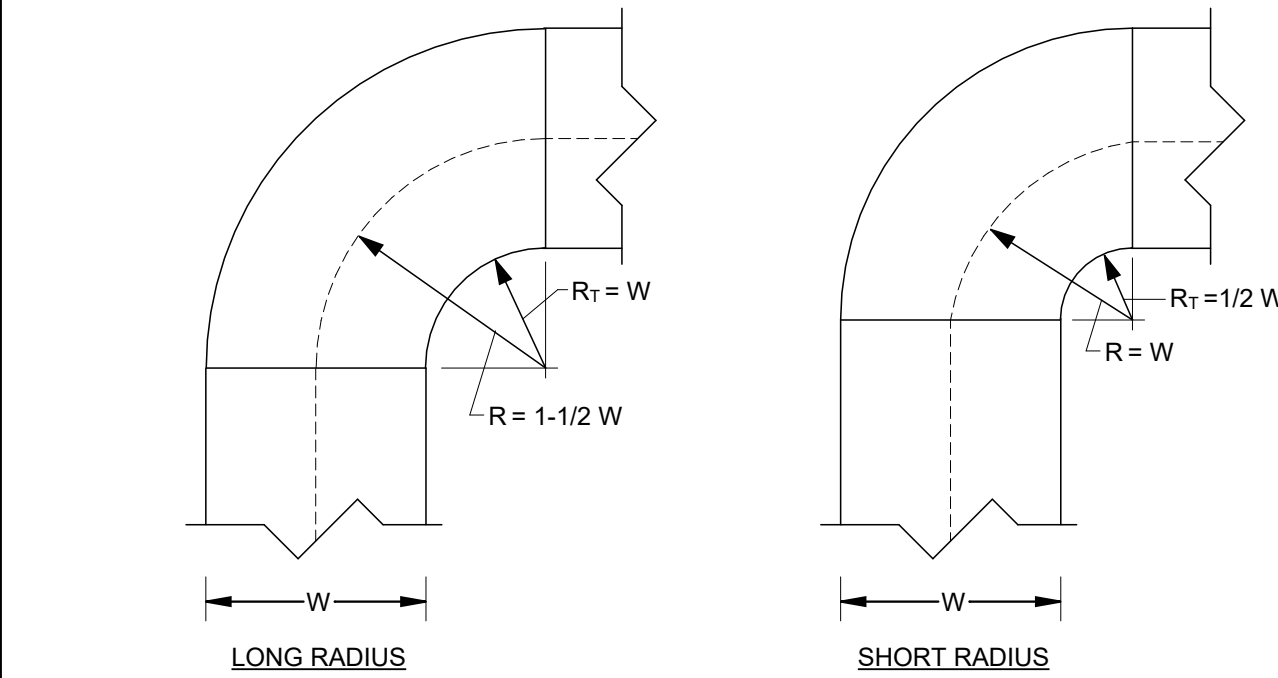
- NOTES:
- ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
 - VANES SHALL BE SECURELY FASTENED TO RUNNERS.
 - INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
 - VANES ARE NOT TO HAVE TRAILING EDGES.

3 DUCT FITTINGS - RECTANGULAR 90° MITERED ELBOW
N.T.S.



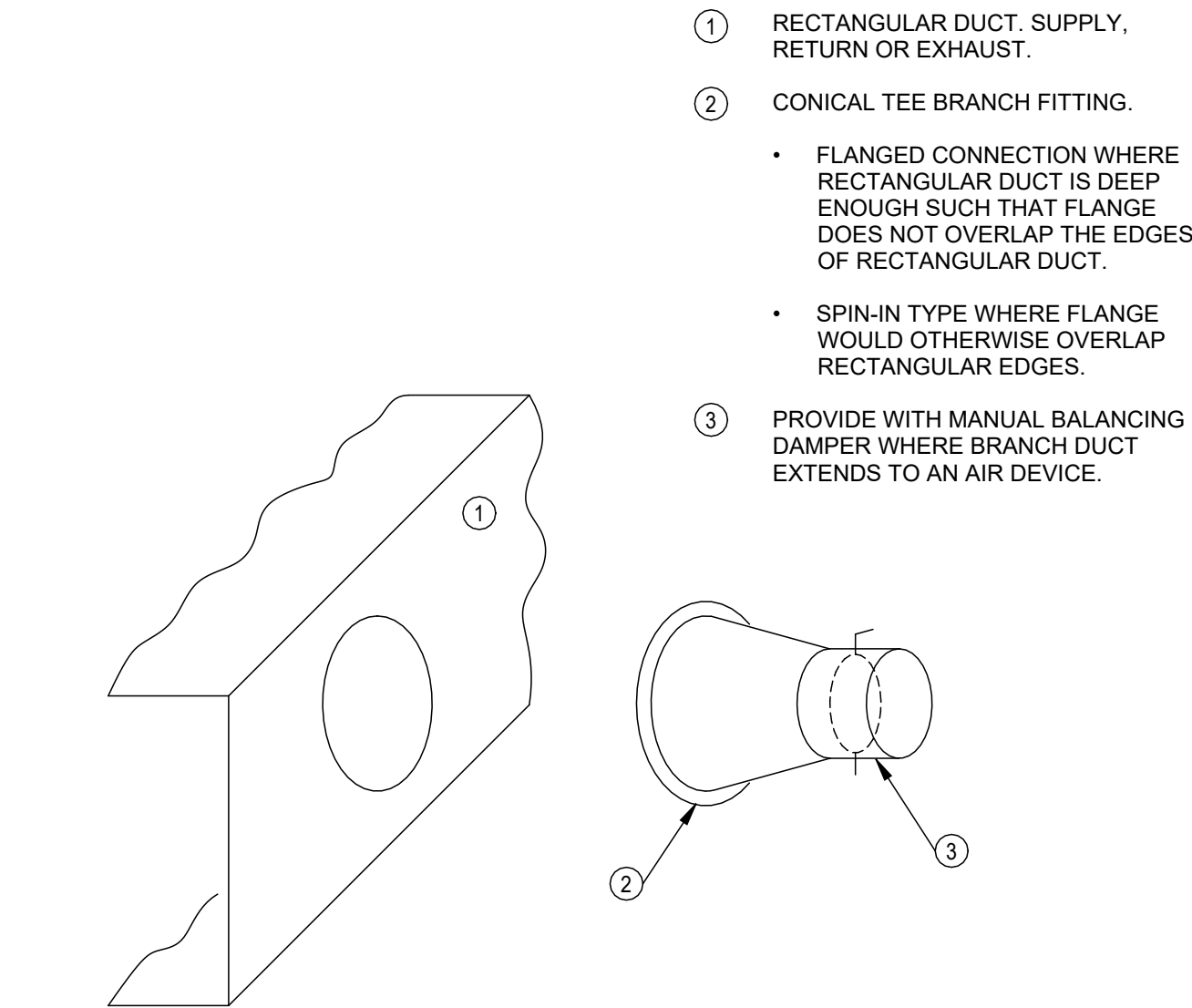
- PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
- EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
- SPIN-IN FITTING WITH BALANCING DAMPER, USE FOR ALL ACCESSIBLE CEILINGS.
- PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
- PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
- FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY, MAX. 2 FT. - REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
- SHEETMETAL DUCT.
- SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
- FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
- DUCT STRAP HANGER.
- VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

4 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



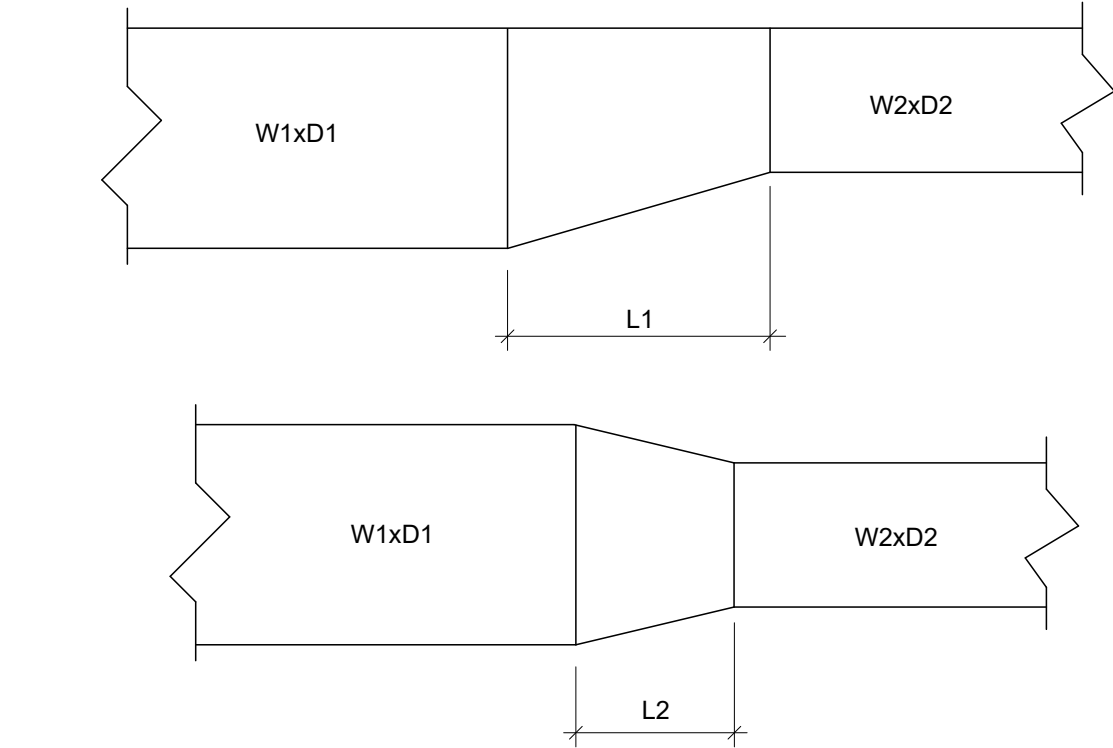
- NOTES:
- USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
 - USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 - ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.
- NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

5 DUCT FITTINGS - RECTANGULAR 90° RADIUS ELBOW
N.T.S.



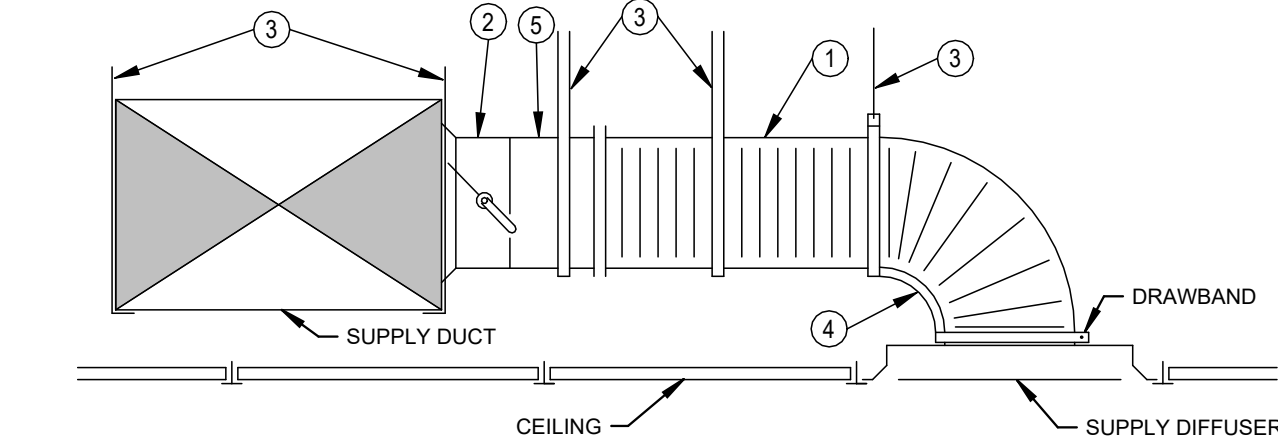
- RECTANGULAR DUCT, SUPPLY, RETURN OR EXHAUST.
- CONICAL TEE BRANCH FITTING.
 - FLANGED CONNECTION WHERE RECTANGULAR DUCT IS DEEP ENOUGH SUCH THAT FLANGE DOES NOT OVERLAP THE EDGES OF RECTANGULAR DUCT.
 - SPIN-IN TYPE WHERE FLANGE WOULD OTHERWISE OVERLAP RECTANGULAR EDGES.
- PROVIDE WITH MANUAL BALANCING DAMPER WHERE BRANCH DUCT EXTENDS TO AN AIR DEVICE.

6 DUCT FITTINGS - RECTANGULAR RECTANGULAR MAIN, ROUND TEE FITTING
N.T.S.



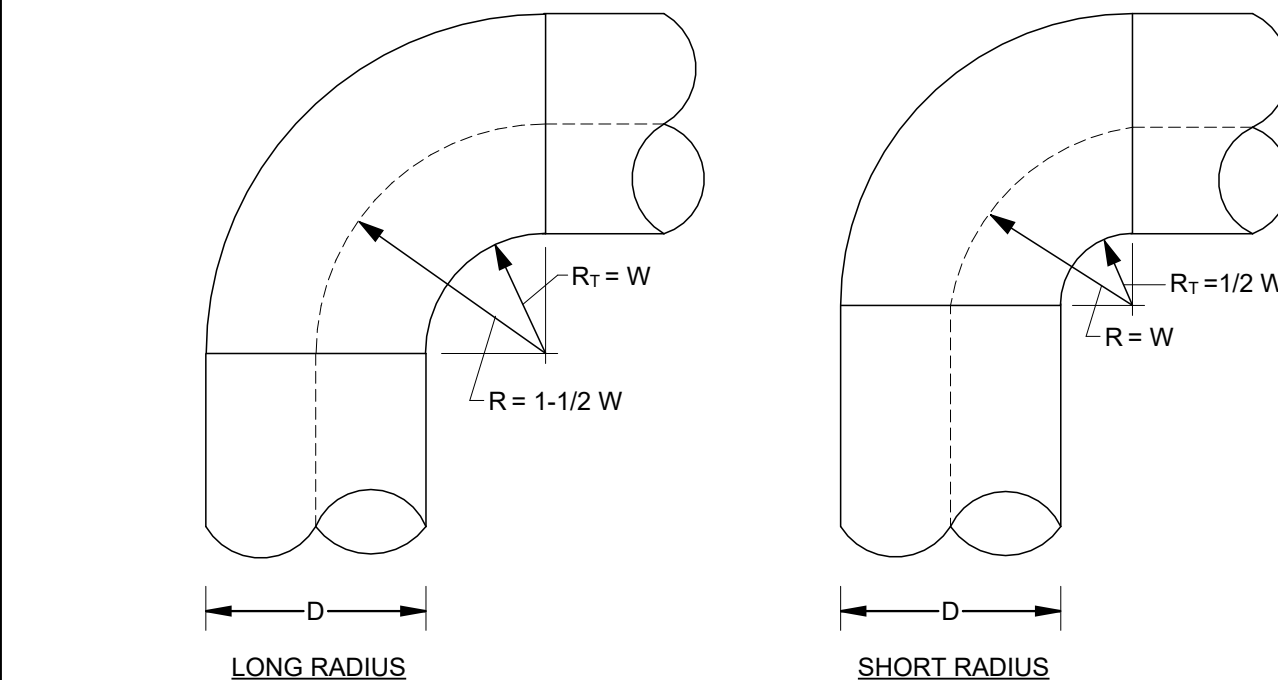
- NOTES:
- DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
 - FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
 - $L1 = 4 \times (W1-W2)$ OR $4 \times (D1-D2)$ WHICHEVER IS GREATER.
 - $L2 = 2 \times (W1-W2)$ OR $2 \times (D1-D2)$ WHICHEVER IS GREATER.
 - FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
 - $L1 = 7 \times (W1-W2)$ OR $7 \times (D1-D2)$ WHICHEVER IS GREATER.
 - $L2 = 3.5 \times (W1-W2)$ OR $3.5 \times (D1-D2)$ WHICHEVER IS GREATER.

7 DUCT FITTINGS - RECTANGULAR TRANSITIONS
N.T.S.



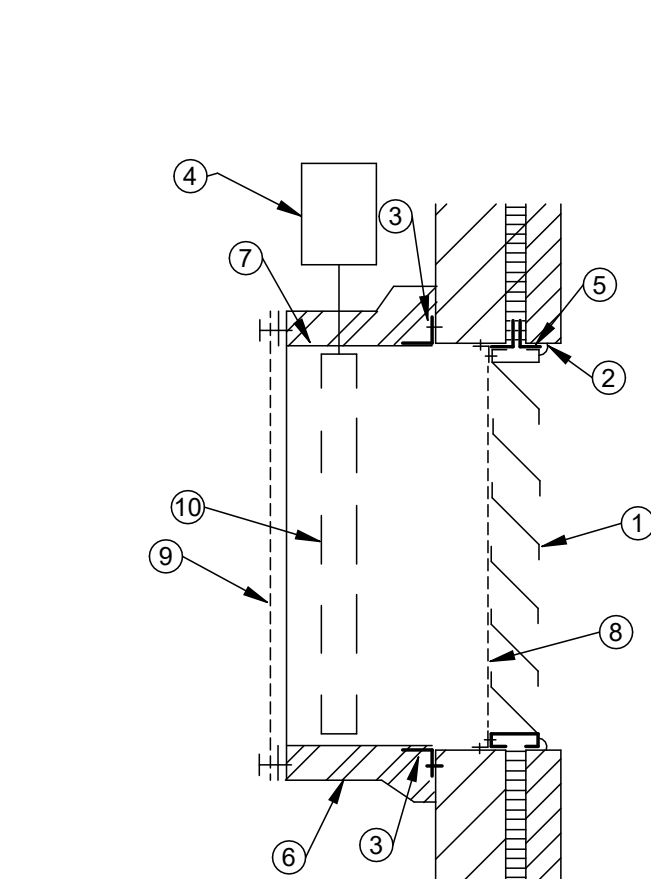
- FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 7 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
- CONICAL TEE BRANCH FITTING, WITH MANUAL DAMPER.
- DUCT SADDLE HANGER, EQUAL TO THERMO-HVAC 'THERMO-SADDLES'. SIZED TO MATCH FLEXIBLE DUCT SIZE.
- 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
- SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

8 SUPPLY AIR DEVICE CEILING DIFFUSER
N.T.S.



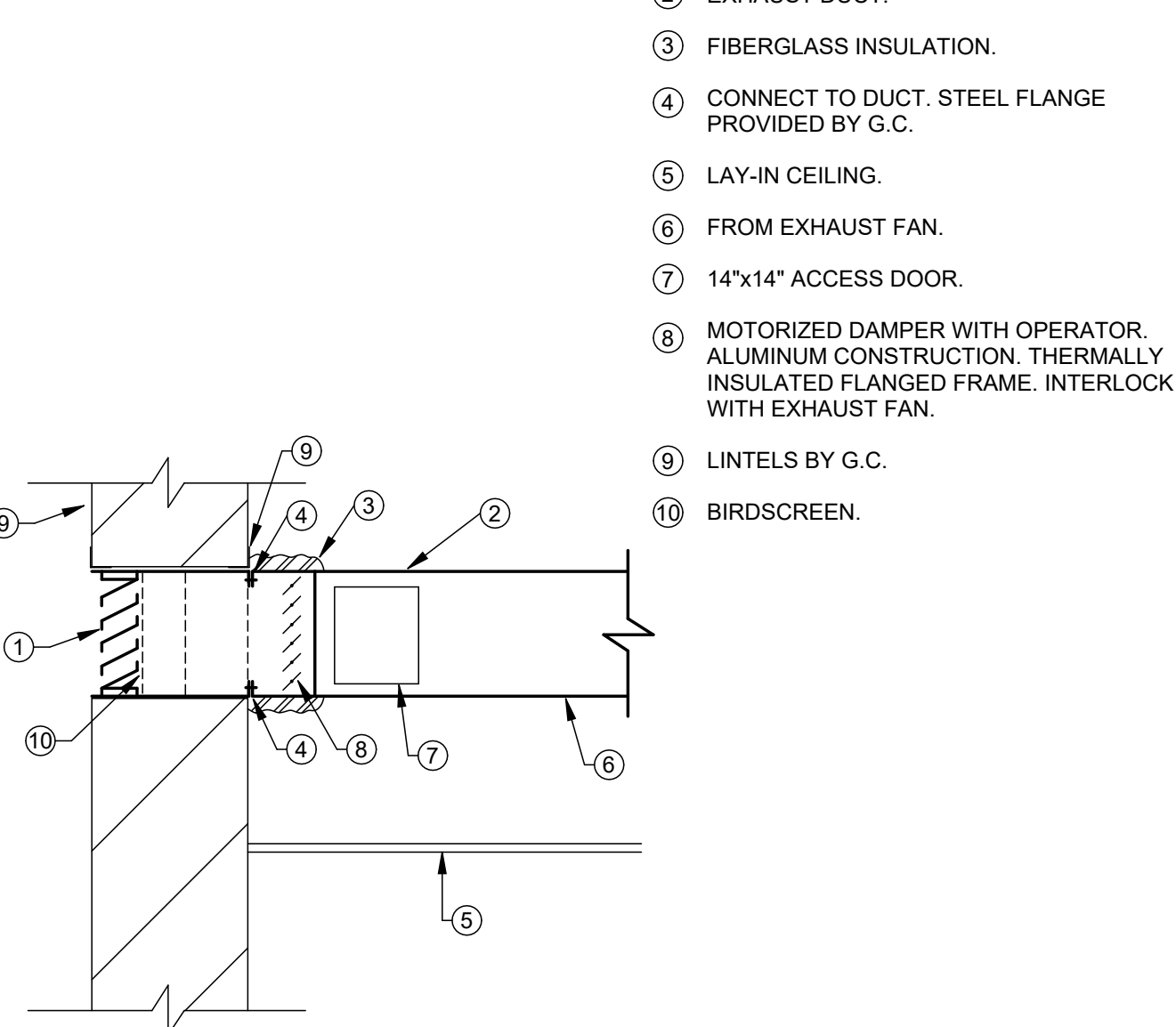
- NOTES:
- DIMENSION D AS SHOWN ON THE DRAWINGS.
 - USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
 - ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

9 DUCT FITTINGS - ROUND 90° RADIUS ELBOW
N.T.S.

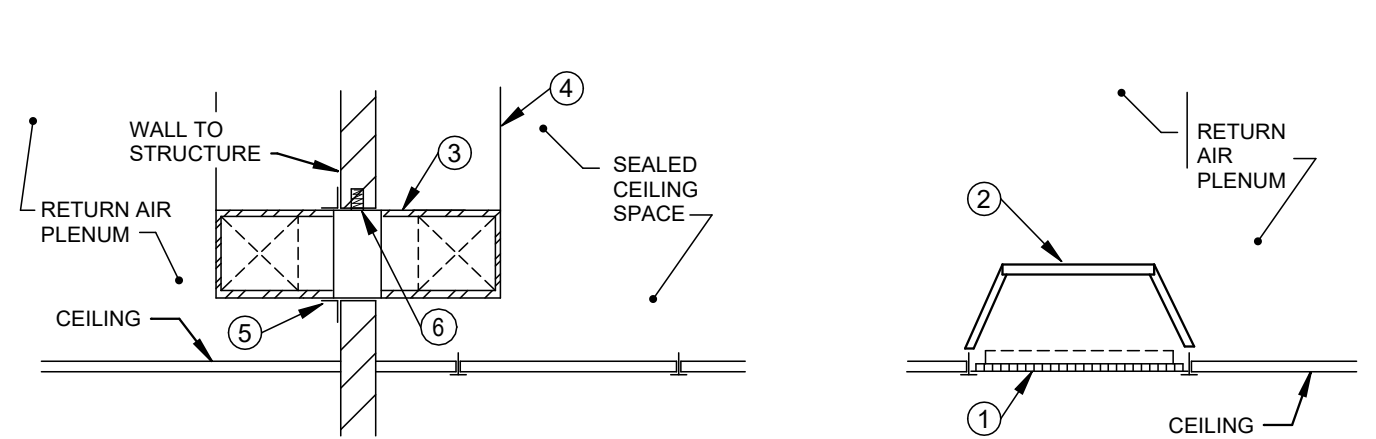


- FRESH AIR LOUVER. SEE AIR DEVICE SCHEDULE.
- PLIABLE CAULK ALL FOUR SIDES.
- FLANGE CONNECTION TO WALL. FOUR SIDES AND SEAL WITH CAULK.
- 115V/1PH MOTORIZED CONTROL DAMPER. E.C. TO WIRE TO OPERATE IN CONJUNCTION WITH PROPELLER EXHAUST FAN. MOUNT ON SIDE OF PLENUM.
- STEEL LINTEL BY G.C.
- INSULATE ENTIRE PLENUM.
- SHEETMETAL PLENUM.
- BIRDSCREEN.
- EXTRUDED ALUMINUM DIAMOND-PATTERN DAMPER GUARD FRAME. MIN. 65% FREE AREA. PLACE TO ALLOW ON INDOOR FACE OF DAMPER & PLENUM FOR PROTECTION AND FOR DAMPER IN FULL OPEN POSITION.
- PROVIDE LOW-LEAK INSULATED AUTOMATIC CONTROL DAMPER WITH 120V ACTUATOR. SEE TEMPERATURE CONTROLS NOTES FOR WIRING. PLENUM TO BE INSULATED.

10 LOUVERS INTAKE LOUVER
N.T.S.



11 LOUVERS EXHAUST LOUVER
N.T.S.



- RETURN GRILLE.
- RETURN AIR CANOPY.
- TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
- SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
- FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
- FIRE DAMPER WHERE INDICATED ON PLAN.

12 TRANSFER AIR GRILLES RETURN AIR CANOPY PLENUM
N.T.S.

NAUMAN & ZELINSKI LLC
204 S. Ludlow Street Suite 400 Dayton, OH 45402
Phone (937) 233-3881
PROJECT # 26039

A

B

C

D

E

F

A

B

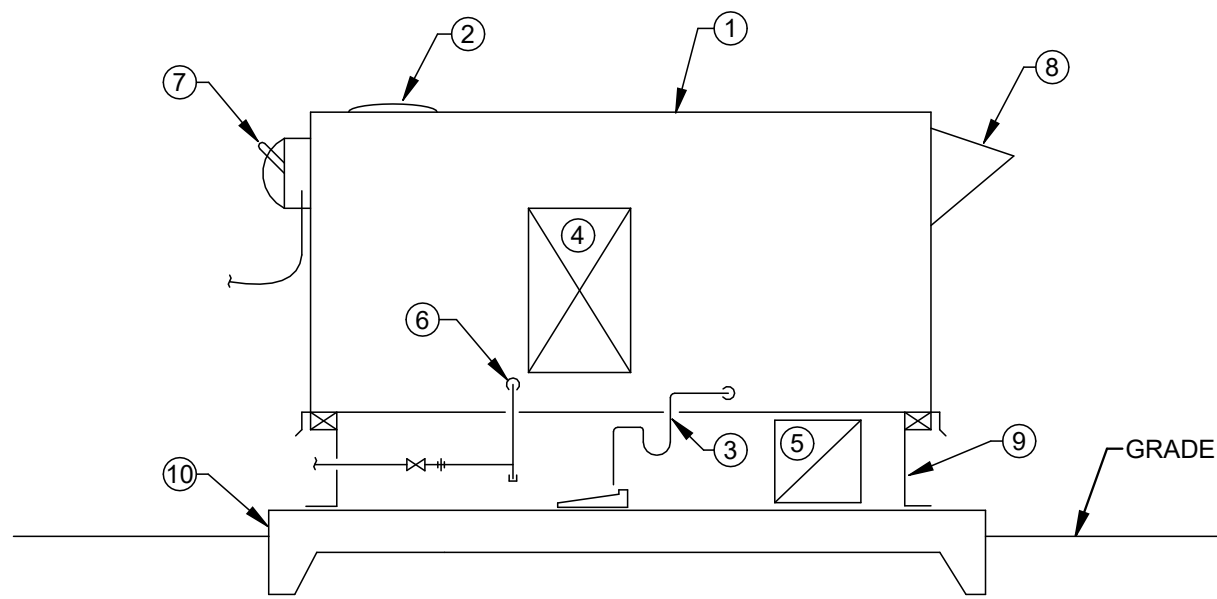
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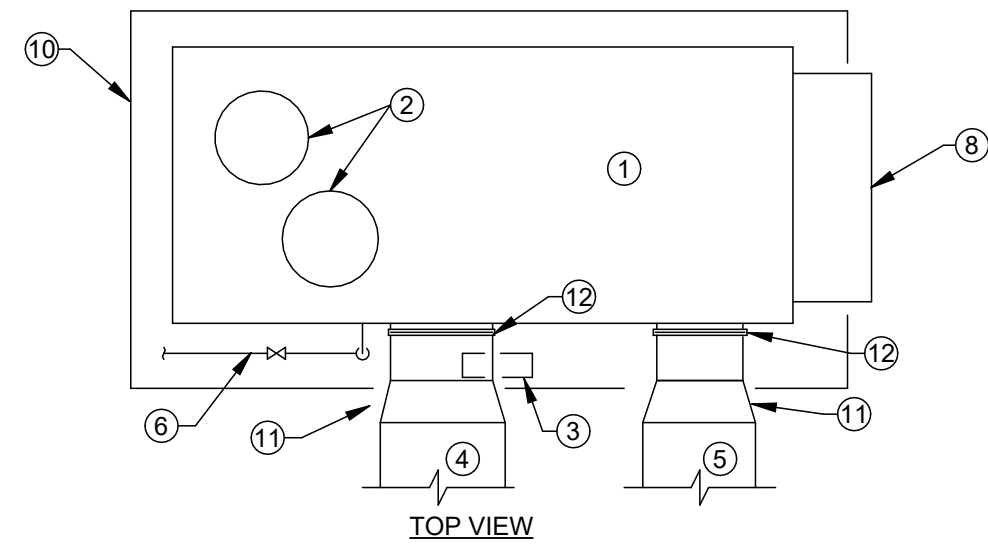
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1 2 3 4 5 6 7



ELEVATION

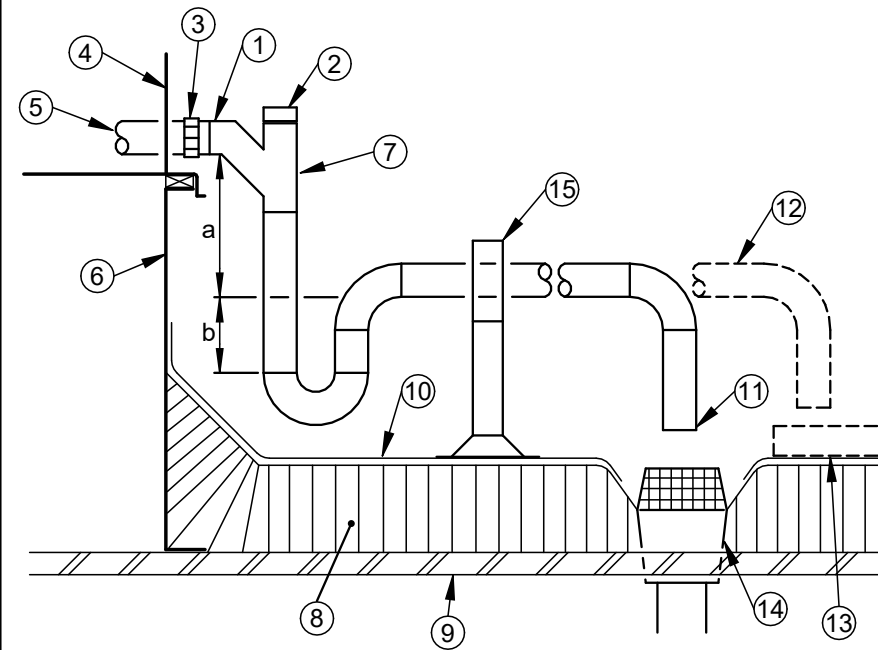


TOP VIEW

- 1 PACKAGED DX COOLING HEAT PUMP UNIT, NATURAL GAS FIRED HEATING UNIT, MOUNTED ON GRADE. HIGH WIND RATING.
- 2 CONDENSER FANS WITH FAN GUARDS.
- 3 CONDENSATE DRAIN WITH CONCRETE SPLASHBLOCK. REFER TO DETAIL.
- 4 SUPPLY DUCT, REFER TO PLANS FOR SIZE.
- 5 RETURN DUCT THRU UNIT CURB, REFER TO PLANS FOR SIZE.
- 6 NATURAL GAS SHUT-OFF VALVE, UNION AND DIRT LEG PIPING CONNECTION TO UNIT BY P.C.
- 7 ELECTRICAL DISCONNECT W/ GFI RECEPTACLE SUPPLIED BY UNIT MANUFACTURER. POWER CONN. BY E.C.
- 8 OUTDOOR AIR INTAKE HOOD.
- 9 24" HIGH INSULATED EQUIPMENT CURB ON NEOPRENE PADS. ANCHOR UNIT TO PAD.
- 10 6" HIGH EXTERIOR CONCRETE EQUIPMENT PAD, REFER TO DETAIL.
- 11 DUCT TRANSITION AS REQUIRED, TYP.
- 12 FLEXIBLE DUCT CONNECTION.

GENERAL NOTE:
PIPING AND DUCTWORK CONNECTION LOCATIONS AND SIZES WILL VARY BY MANUFACTURER. COORDINATE UNIT ORIENTATION WITH ALL CONTRACTORS AND SITE CAREFULLY.

1 ROOFTOP UNIT ON-GRADE, BASE RAIL MOUNTING DETAIL
N.T.S.

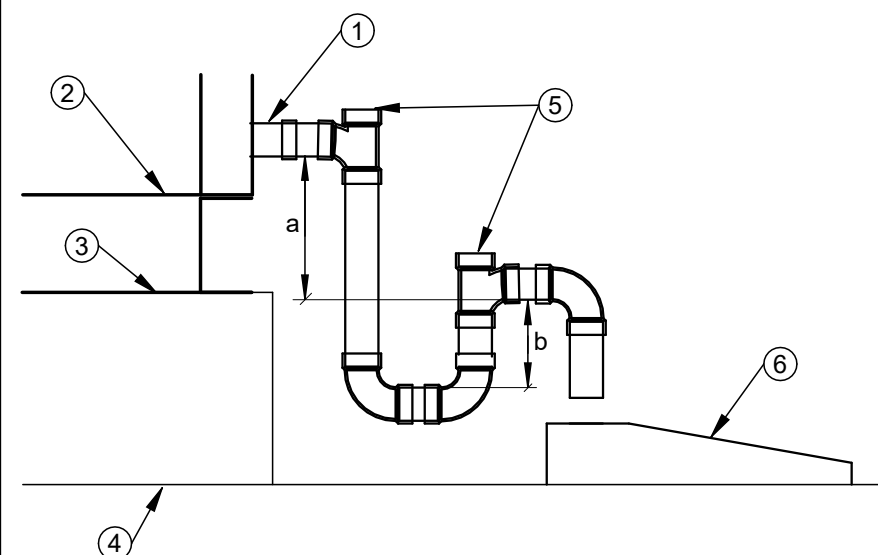


- 1 DRAIN PIPE. SAME SIZE AS UNIT OUTLET.
- 2 CLEANOUT PLUG.
- 3 UNION.
- 4 SIDE OF ROOFTOP UNIT.
- 5 FROM DRAIN PAN.
- 6 14" HIGH ROOF CURB. SEE DETAIL.
- 7 DRAINAGE WYE FITTING.
- 8 ROOF INSULATION.
- 9 ROOF DECK.
- 10 ROOFING MEMBRANE.
- 11 OPEN DRAIN - 1" AIR GAP.
- 12 ALTERNATE ROUTING OF DRAIN.
- 13 12"x12"x1" THICK CONCRETE SPLASH BLOCK. PLACE ON TOP OF ADDITIONAL PIECE OF ROOFING MEMBRANE.
- 14 ROOF DRAIN.
- 15 ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2

- VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

4 ROOFTOP UNIT COOLING COIL CONDENSATE PIPING
N.T.S.

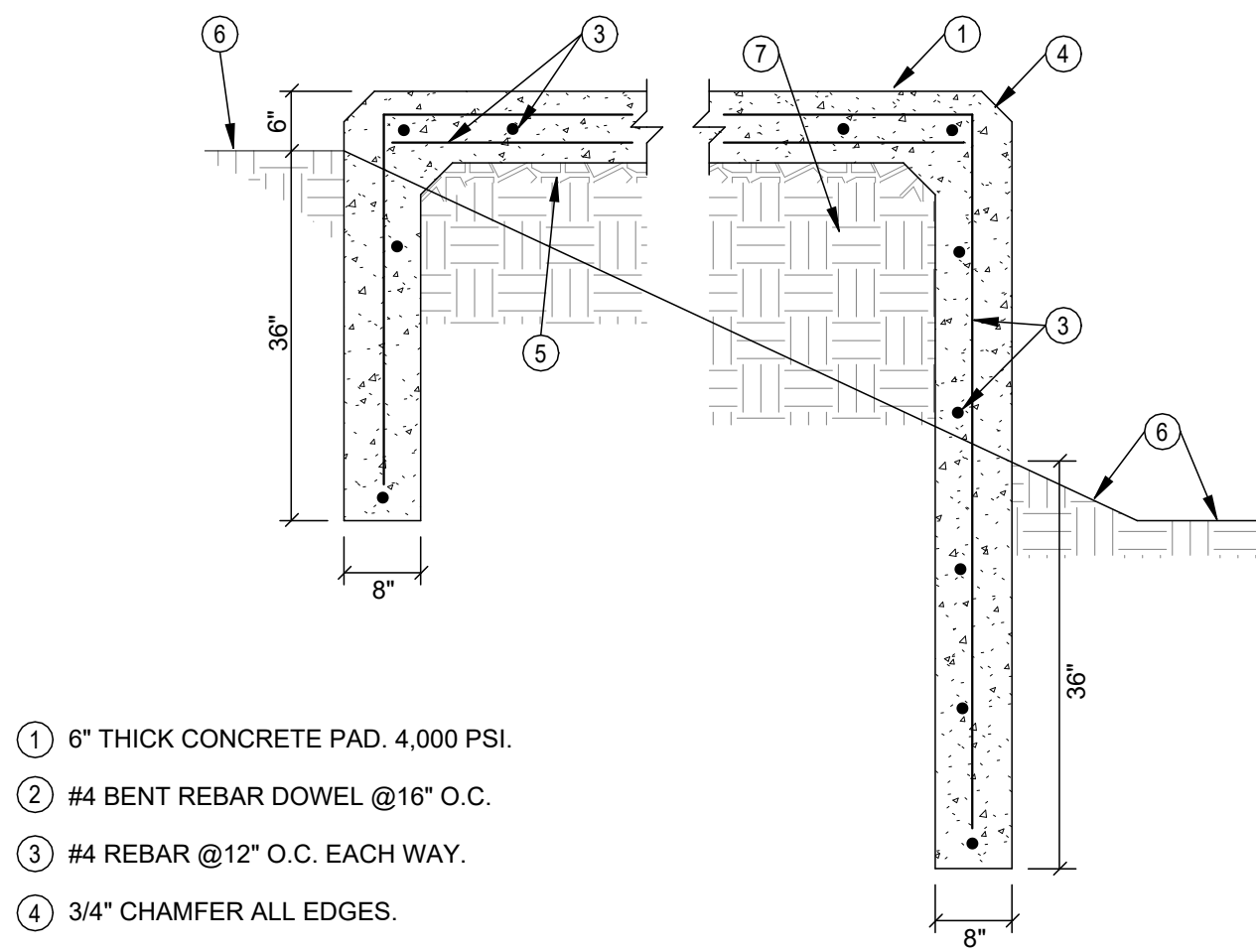


- 1 CONDENSATE DRAIN PIPE. PIPE SIZED TO MATCH CONDENSATE CONNECTION SIZE ON AHU. PIPING MATERIAL PER PIPING MATERIAL SCHEDULE.
- 2 A.H. UNIT FLOOR.
- 3 A.H. UNIT BASE.
- 4 4" CONCRETE EQUIPMENT PAD.
- 5 DWV TEE WITH CLEANOUT AND CAP.
- 6 COORDINATE TERMINATION WITH FLOOR DRAIN. TERMINATE IN DRAIN IF GRATE HAS OPENING. IF NO OPENING, TERMINATE SUCH THAT WATER DOES NOT SPLASH ONTO ADJACENT MECHANICAL ROOM FLOOR.
- 7 FLOOR DRAIN BY P.C.

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2

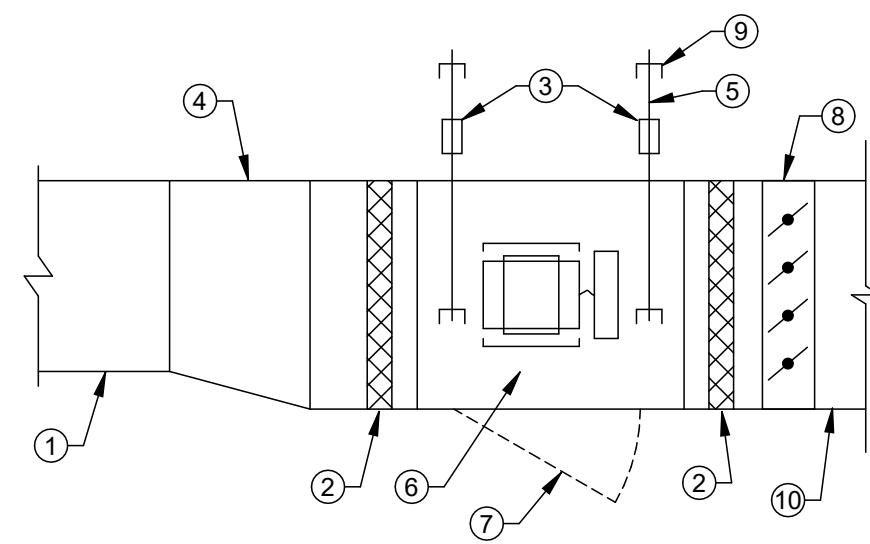
- VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

6 RTU CONDENSATE TRAP DRAW THRU UNITS
N.T.S.



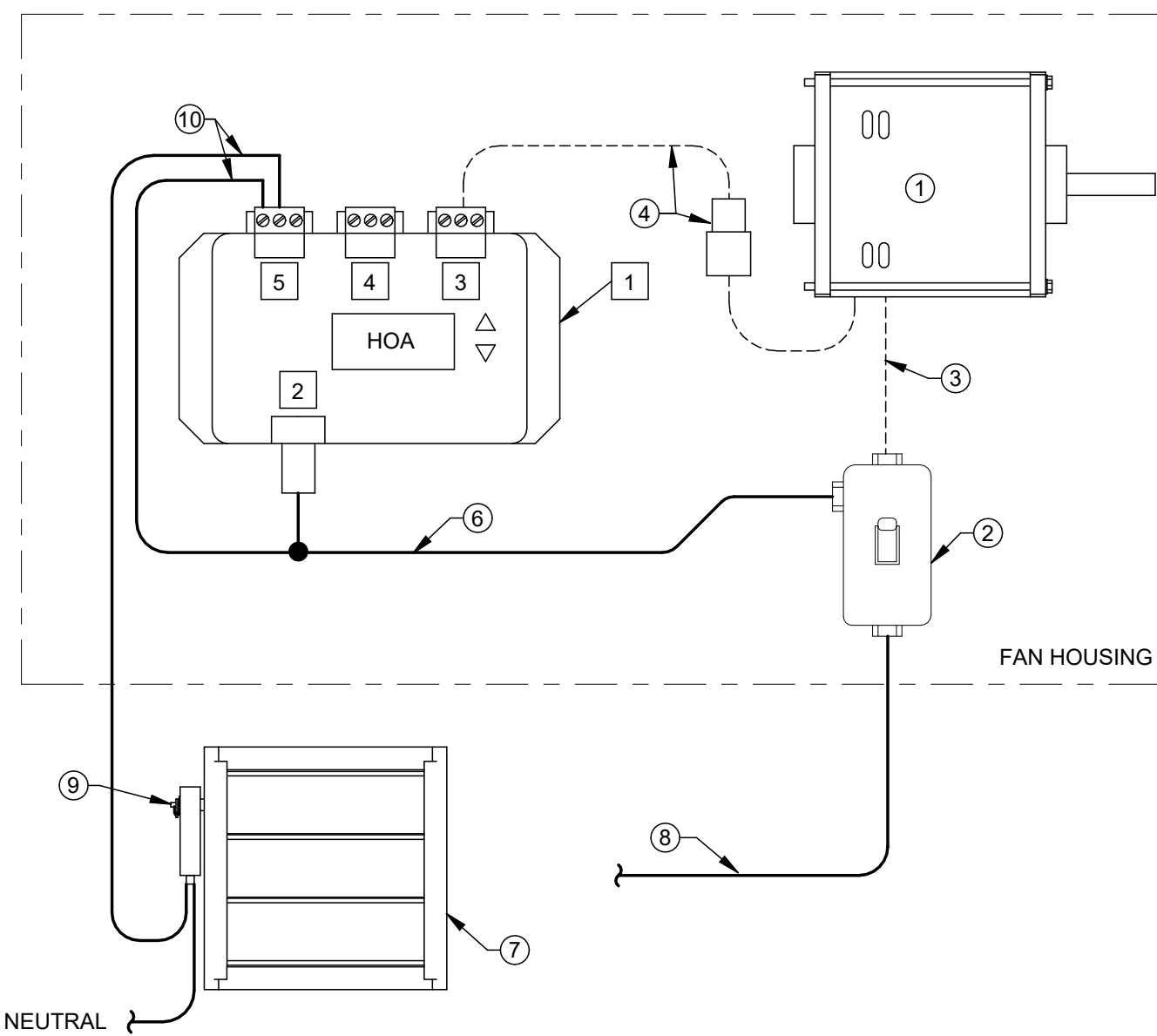
- 1 6" THICK CONCRETE PAD, 4,000 PSI.
- 2 #4 BENT REBAR DOWEL @16" O.C.
- 3 #4 REBAR @12" O.C. EACH WAY.
- 4 3/4" CHAMFER ALL EDGES.
- 5 COMPACTED #57 CRUSHED GRAVEL FILL, 4" THICKNESS MIN.
- 6 GRADE.
- 7 REMOVE EXCAVATED MATERIAL. REFER TO SPECIFICATION FOR BACKFILL.

2 CONCRETE EQUIPMENT PAD EXTERIOR - SLOPED GRADE
N.T.S.



- 1 DUCTWORK. REFER TO SCHEDULE FOR TYPE.
- 2 FLEXIBLE DUCT CONNECTION VIBRATION ISOLATORS.
- 3 VIBRATION ISOLATOR HANGERS.
- 4 TRANSITION TO EXHAUST FAN INLET SIZE.
- 5 THREADED ROD.
- 6 INLINE FAN.
- 7 ACCESS DOOR.
- 8 MOTORIZED OR GRAVITY BACK DAMPER. REFER TO HOA CONTROLLER DIAGRAM FOR INSTALLATION INFORMATION.
- 9 STEEL CHANNEL. ATTACH TO STRUCTURE.
- 10 DISCHARGE DUCT IS SAME SIZE AS FAN OUTLET.

3 INLINE EXHAUST FAN
N.T.S.



CONTROLLER NOTES

- 1 HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
- 2 100 - 277V / 1 PHASE POWER TO CONTROLLER.
- 3 MOTOR CONTROL: 0-10 VDC, 24V, & COM.
- 4 DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
- 5 AUX. CONTACT. LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.

DETAIL NOTES

- 1 ECM FAN MOTOR.
- 2 TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
- 3 SINGLE PHASE WIRING BY MANUFACTURER.
- 4 CONTROL WIRING BY MANUFACTURER.
- 5 DDC INPUT CONTROL WIRING BY H.C.
- 6 LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
- 7 DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
- 8 SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
- 9 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
- 10 WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.

SEQUENCE OF OPERATION -
FAN TO OPERATE CONTINUOUSLY.

--- WIRING BY H.C.
— WIRING BY E.C.
----- WIRING BY MANUFACTURER

5 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S.

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CHECKED	JDZ

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ELECTRICAL SPECIFICATIONS

- AA. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLEXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.
- AB. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.
- AC. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.
- AD. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.
- AE. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.
- AF. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.
- AG. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.
- AH. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.
- AI. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.
- AJ. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL SPECIFICATIONS

- A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E.
- C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.
- D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.
- F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT, DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.
- G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE.
- J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT OR MC CABLING AS ALLOWED BELOW. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR 20 AMP CIRCUITS. FINAL CONNECTION TO INDOOR LIGHT FIXTURES, AND DROPS TO RECEPTACLES IN WALLS. MC CABLING IS NOT PERMITTED TO BE USED FOR EXPOSED CONDUIT LOCTIONS. ALL HOME RUN BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. THE HOME RUN CONDUIT SHALL ORIGINATE AT THE PANEL BOARD AND SHALL TERMINATE AT THE LAST CONNECTED DEVICE ON THE CIRCUIT OR IN THE CENTER OF THE ROOM/AREA THAT THE CIRCUIT SERVES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.
- M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABLING USES INCLUDING VOICE/DATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.
- O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.
- P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH MATCHING NYLON COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- R. RECESSED OR SURFACE MOUNTED LIGHT FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE SUPPORTED AT MINIMUM TWO OPPOSITE CORNERS, INDEPENDENT OF EACH OTHER, FROM STRUCTURES ABOVE WITH #12 STEEL SUPPORT WIRES. DOWNLIGHTS SHALL BE SUPPORTED FROM STRUCTURE WITH MINIMUM ONE #12 STEEL SUPPORT WIRE FROM FIXTURE TO STRUCTURE.
- S. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- T. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.
- U. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.
- V. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.
- W. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- X. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- Y. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.
- Z. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.

ELECTRICAL LEGEND

- ▼ NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED); TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
- ▽ EXISTING DATA OUTLET
- ☑ TELEPHONE/DATA FLOOR OUTLET, HUBBELL BA-2436 FLUSH FLOOR OUTLET BOX AND SA-3826 COVERPLATE WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.
- ☑^{AP} WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
- TV TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
- TV TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2
- ▣ PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
- Ⓢ FLUSH MOUNTED CEILING SPEAKER.
- Ⓢ WALL MOUNTED SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.

GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL LEGEND

- ⊗ ELECTRICAL CONNECTION REQUIRED.
- EXIT LIGHTING FIXTURE, ARROWS AS INDICATED WITH INTEGRAL BATTERY BACKUP AND EMERGENCY LIGHTING HEADS
- LIGHTING FIXTURE; CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT.
- W — WIRE RUN IN SURFACE RACEWAY.
- NL — WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
- EM — WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
- E — EXISTING WIRE & CONDUIT.
- EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING
- WIRE & CONDUIT UNDERGROUND
- Ⓜ JUNCTION BOX.
- Ⓜ DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
- Ⓜ EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.) USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
- SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
- 20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- 20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
- 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2436 FLUSH FLOOR BOX WITH SA-3825 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
- 20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
- 30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
- ↑ SINGLE POLE WALL SWITCH (46" M.H.)
- ↑2 TWO POLE WALL SWITCH (46" M.H.).
- ↑3 THREE-WAY WALL SWITCH (46" M.H.).
- ↑OS LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
- ↑D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- ↑3D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- ↑VS LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
- ↑DV 0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.
- Ⓢ OCCUPANCY SENSOR, CEILING MOUNTED.
- Ⓢ OCCUPANCY SENSOR CONTROL RELAY.
- DISCONNECT SWITCH
- MOTOR STARTER OR VFD.
- COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
- ELECTRIC MOTOR.
- UNIT HEATER.
- FAN COIL UNIT.
- CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
- CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 2 DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- B E2 DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET E2.
- A E1 SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
- CONNECTION, NEW TO EXISTING.
- UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

ELECTRICAL INDEX OF DRAWINGS

SHEET	DRAWING TITLE
E0.1	LEGENDS AND SCHEDULES
E0.2	SCHEDULES, DETAILS AND SINGLE LINE DIAGRAM
E1.1	DEMOLITION
E3.1	NEW WORK POWER PLAN

A

B

C

D

E

F

BUILDING RENOVATION

ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ISSUE		
NO.	DATE	DESCRIPTION

08/31/26 FOR CONSTRUCTION

DATE	08/31/26
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TITLE
LEGENDS AND SCHEDULES

SHEET NO.

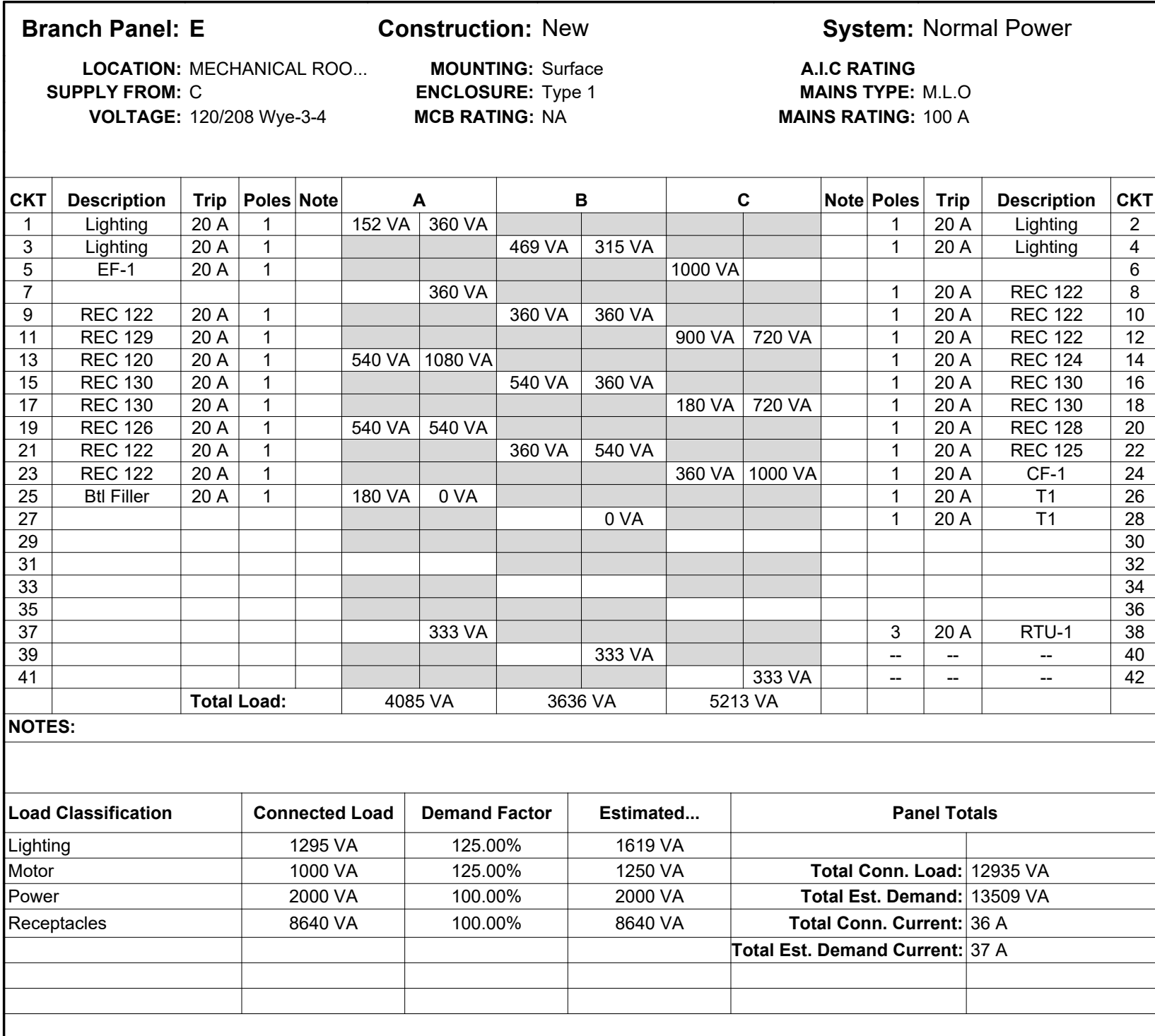
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PROJECT # 26039



FIXTURE SYMBOL	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				S - SURFACE, R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, S - T-BAR MTD, CS - CLG. SURF.	MOUNTED				SIZE				SEE NOTES
	LED	TYPE		WATTS/FIXTURE					LUMENS/ COLOR TEMP	WHITE	BLACK	ALUMINUM		BRONZE	STANDARD	SEE NOTES	WIDTH	LENGTH	DEPTH	DIAMETER		
B1	●				36	3800 LUMENS / 4000K	120	DAYBRITE# 2 - FGX - G - 38L - 840 - 2 - RS - UV - DIM	NA	MATTE WHITE LENS	●					R	24	24	3			
B2	●				42	4500 LUMENS / 4000K	120	DAYBRITE# 2 - FGX - G - 45L - 840 - 4 - RS - UV - DIM	NA	MATTE WHITE LENS	●					R	24	48	3			
C1	●				50	11000 LUMENS / 4000K	120	DAYBRITE # FSS8110L840 - UNV - DIM	APPROVED EQUAL	MATTE WHITE LENS	●					CS	4	96	4			
D1	●				15	1450 LUMENS / 4000K	120	LUMENCIA # LLV6624DMCT - UNV - 15W - 1450LM - 40K - 80CRI	APPROVED EQUAL	MATTE WHITE LENS	●					WM	6	24	6			
F1	●				15	1300 LUMENS / 4000K	120	LIGHTOLIER # DL26R13Z10SCTUW	APPROVED EQUAL	MATTE WHITE LENS	●					R			2	6		
L1	●				6.6 W PER FT	739 LUMENS PER FT / 4000K	120	TGS # TSPEC - X' - 40K - 15 - U - D	APPROVED EQUAL	MATTE WHITE LENS	●					S	2	96	2		1	
EM	●				6		120	EXITRONIX # LED - 90L - G3 - 6W	NA	SEMI SPECULAR LENS						WM						
X1	●				5		120	EXITRONIX # ILXC - U - RG - XX	NA	SINGLE FACE EXIT SIGN WITH RED LETTERS (INTEGRAL BATTERY) AND LAMP HEADS						PER PLAN						
X2	●				5		120	EXITRONIX # ILXC - U - RG - XX	NA	DOUBLE FACE EXIT SIGN WITH RED LETTERS (INTEGRAL BATTERY) AND LAMP HEADS						PER PLAN						

MOTOR										STARTERS					DISCONNECT MEANS					CONTROL			FEEDER									
MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	CHARACTERISTICS				LOCATION	NEMA SIZE	TYPE		LOCATION			FURNISHED BY	TYPE		LOCATION			FURNISHED BY	INTERLOCK W/ DAMPER BY E.C.			MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	H.O.A. CONTROLLER*	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
			HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH			480V-1PH	480V-3PH	MANUAL	MAGNETIC	BUILT-IN MOTOR OIL		VFD	ECM	NEAR MOTOR	MOTOR CONT. CNTR	EQUIP. CONT. PANEL		ROOM NUMBER	SEE NOTE	DISC. SWITCH									
RTU-1		ROOFTOP UNIT	34 MCA 50 MOCp		•									HC	•							EC				•		8	10	.75	1	
EF-1		EXHAUST FAN	1/4 HP		•									HC	•							EC				•		12	12	.5		

EXISTING UTILITY
PADMOUNT XFMR

(4)#1, (1)#6G, 1-1/2"C

NEW PNL 'E'
100A
120/208V 200A 120/208V
3PH-4W

REPLACE PNL 'C'
WITH NEW
120/208V 200A 120/208V
3PH-4W

EX. PNL 'A'
200A
120/208V
3PH-3W

EX. PNL 'B'
200A
120/208V
1PH-3W

EX. PNL 'D'
100A
120/208V
1PH-3W

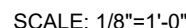
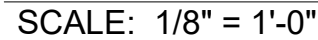
PROVIDE NEW SERVICE GROUND
#4 CU GND TO 10'L x 3/4" GND ROD.
(IF NOT EXISTING)

SINGLE LINE DIAGRAM

N.T.S.

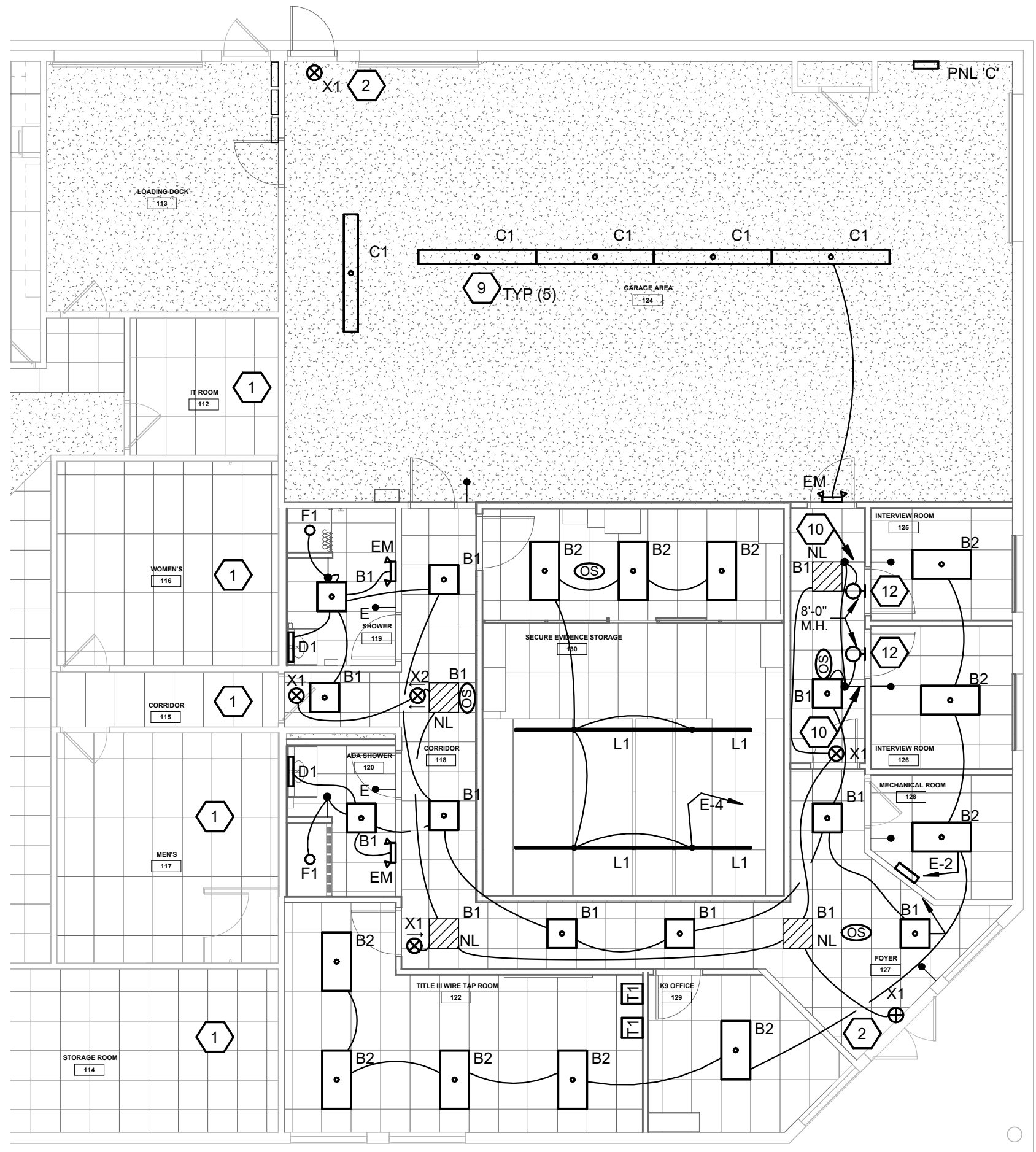
SCOPE OF WORK ENTAILS PARTIAL REPLACEMENT OF EXISTING FLUORESCENT LIGHTING WITH NEW 'LED' LIGHTING, RE-WORK OF EXISTING POWER FOR RE-CONFIGURED WORKSTATIONS AND SUPPLEMENTAL COOLING FOR IT ROOM. NO SIGNIFICANT CHANGE IN OVERALL BUILDING ELECTRICAL LOAD.

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TITLE SCHEDULES, DETAILS AND SINGLE LINE DIAGRAM	
SHEET	NO.

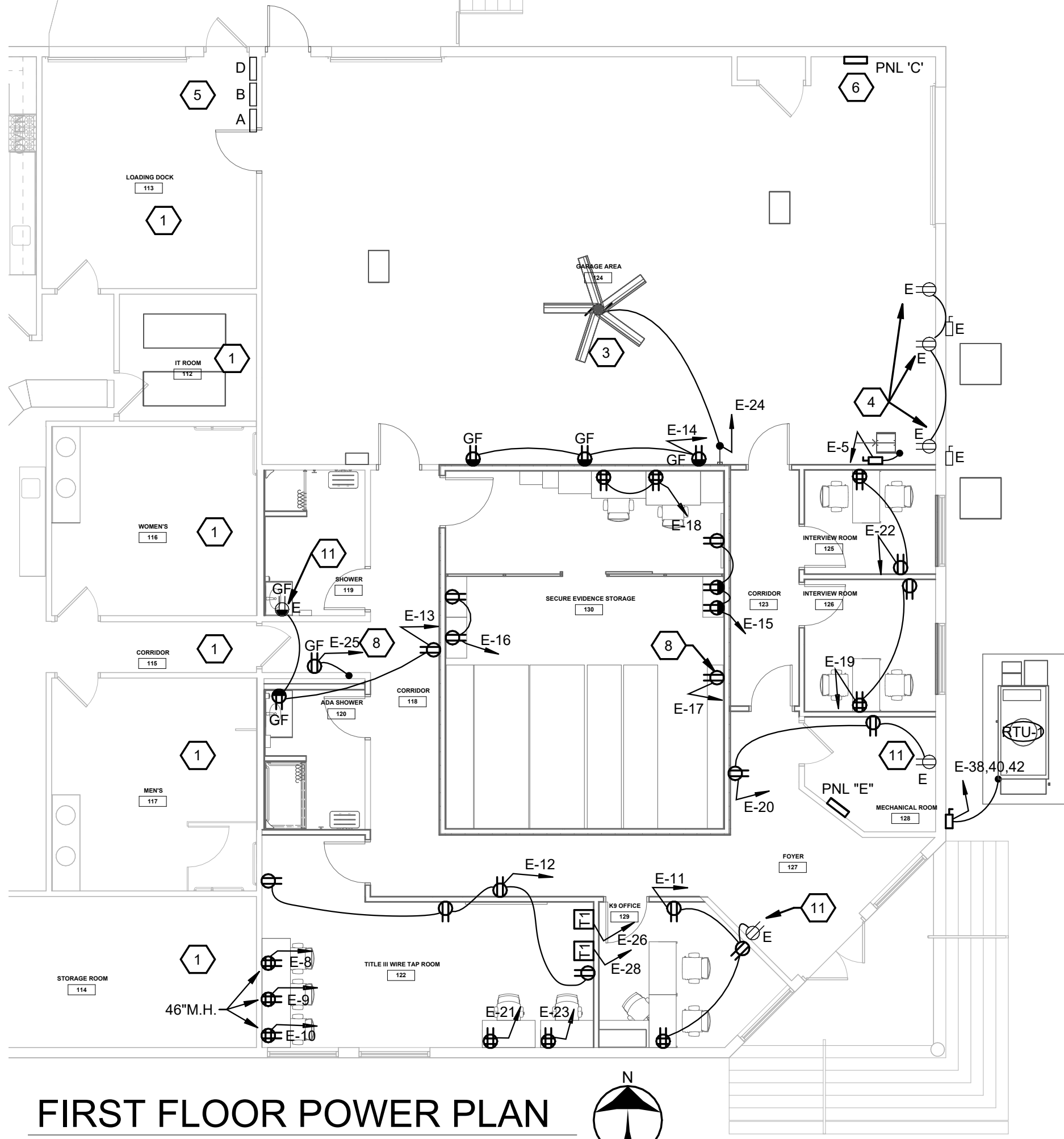


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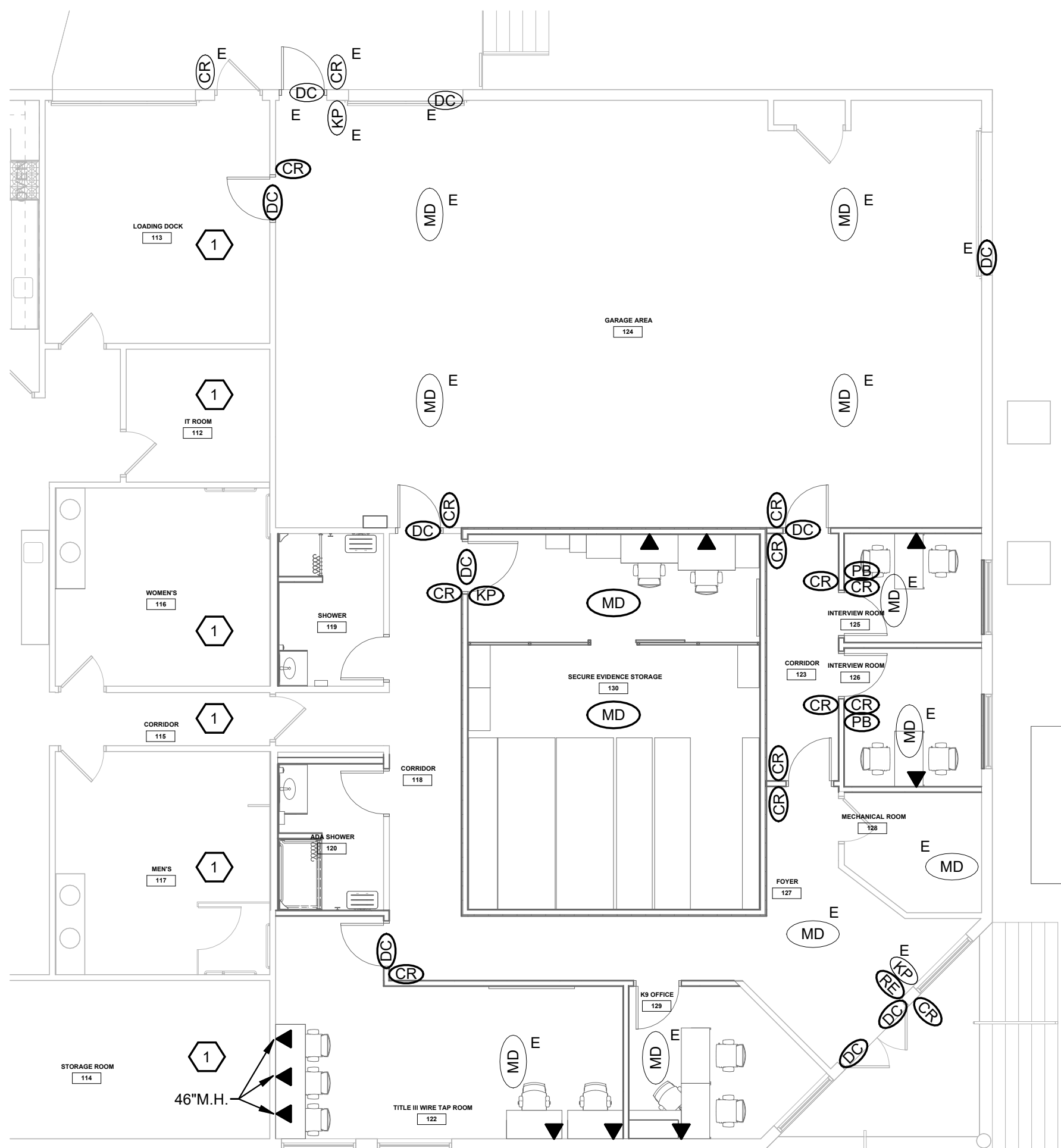
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FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



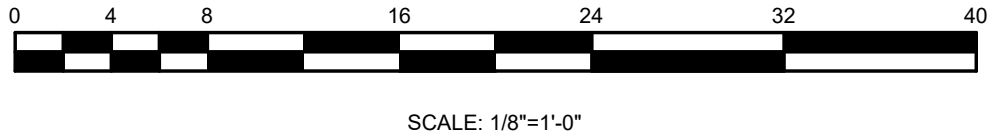
FIRST FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

- ### CONSTRUCTION NOTES
- NO WORK IN THIS AREA.
 - REPLACE EXIT SIGN WITH NEW.
 - CEILING FAN AND CONTROLS FURNISHED AND INSTALLED BY H.C., WIRED BY E.C.
 - REPLACE ALL EXISTING RECEPTACLE(S) IN GARAGE WITH GFCI TYPE
 - EXISTING PANELS
 - REPLACE EXISTING PANEL
 - PROVIDE DEDICATED CIRCUIT THROUGH ADJACENT GROUND FAULT RECEPTACLE (WITH AUDIBLE ALARM) FOR BOTTLE FILLER. COORDINATE CONNECTION REQUIREMENTS WITH P.C.
 - PROVIDE DEDICATED CIRCUIT FOR UPS FOR FILE SYSTEM. COORDINATE LOCATION WITH SYSTEMS FURNITURE VENDOR.
 - REPLACE EXISTING GARAGE LIGHTING WITH NEW CONNECT TO EXISTING LIGHTING CIRCUIT AND SWITCH LEG.
 - PROVIDE WALL SWITCH TO CONTROL ROOM IN-USE LIGHT ABOVE DOOR IN HALLWAY AS NOTED AND TO POWER ROOM WHITE NOISE SYSTEM (WHITE NOISE SYSTEM FURNISHED BY OTHERS).
 - REPLACE EXISTING RECEPTACLE WITH NEW RECEPTACLE OF SAME TYPE IN SAME PLACE.
 - PROVIDE SINGLE SECTION RED DOME LIGHT TO INDICATE ROOM OCCUPANCY. SINGLE SECTION RED DOME LIGHT EQUAL TO CORNELL COMMUNICATIONS # LED-101R (REQUIRES SINGLE GANG BACK BOX). PROVIDE POWER SUPPLY FOR LOW VOLTAGE DOME LIGHT (OR LED DRIVER). LOCATED ABOVE ACCESSIBLE CORRIDOR CEILING, EQUAL TO CORNELL COMMUNICATIONS #P-512241A. COORDINATE INTERFACE WIRING FOR WHITE NOISE SYSTEM WITH SYSTEMS PROVIDER.

GENERAL NOTES

ALL EXISTING MOTION DETECTORS INSTALLED IN PHASE 1 SHALL BE TEMPORARILY SUPPORTED AND REINSTALLED IN THE NEW CEILING.

OWNERS SECURITY SYSTEMS SYMBOL	SYSTEMS LEGEND
(SB)	SECURITY STROBE WITH SOUNDER (RED/BLUE/AMBER). PROVIDE T-BAR SUPPORT WHERE LOCATED IN SUSPENDED IN ACOUSTIC CEILING TILE.
(X)	(CR) DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H. PROVIDE 2-GANG BOX WITH SINGLE GANG MUD RING AND 1" CONDUIT TO ABOVE CEILING.
(DC)	(DC) PROVIDE 1 GANG BOX AND CONDUIT TO ABOVE CEILING FOR DOOR CONTACT
(KP)	(KP) PROVIDE 1 GANG BOX AND 1" CONDUIT TO ABOVE CEILING FOR KEY PAD
(PB)	(PB) PROVIDE 1 GANG BOX AND 1" CONDUIT TO ABOVE CEILING FOR PUSH BUTTON
(MD)	(MD) MOTION DETECTOR. NO WORK BY E.C.
(F)	(F) PROVIDE 1 GANG BOX AND 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING FOR CCTV CAMERA.
(H)	(H) PROVIDE 1 GANG BOX, 46" M.H. AND 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING FOR PHONE.
(V)	(V) NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
(V)	(V) EXISTING DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED M.H.).
(F)	(F) TELEPHONE/DATA FLOOR OUTLET, WITH 1.5" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.
(AP)	(AP) WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
(T1)	(T1) TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
(T2)	(T2) TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2



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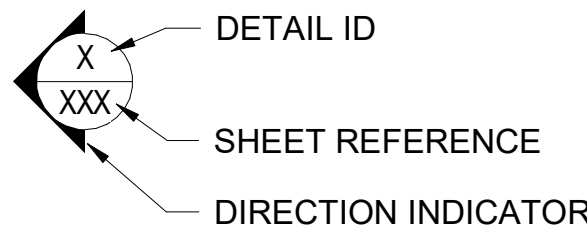
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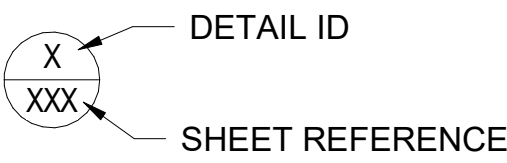
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NEW WORK POWER PLAN

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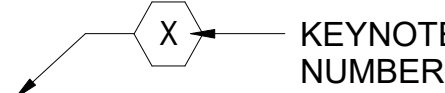
REFERENCE AND KEYNOTE SYMBOLS



ELEVATION REFERENCE SYMBOL



CALLOUT REFERENCE SYMBOL

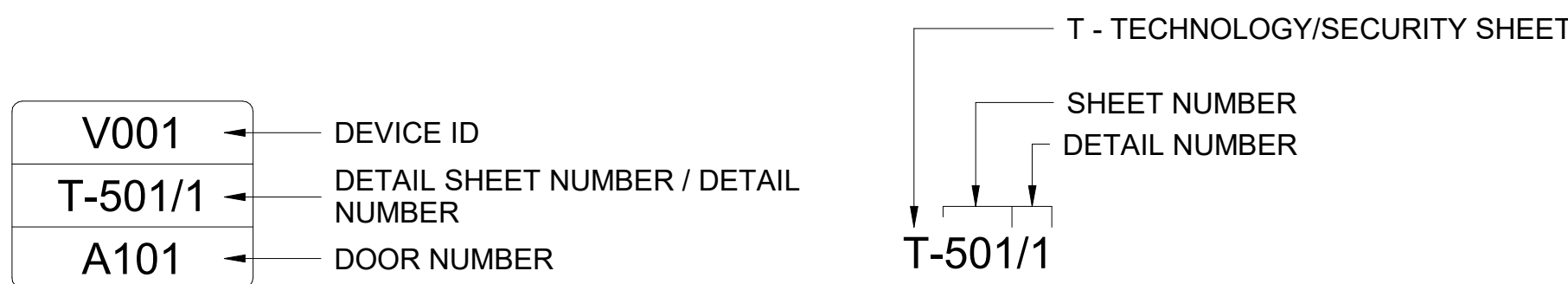
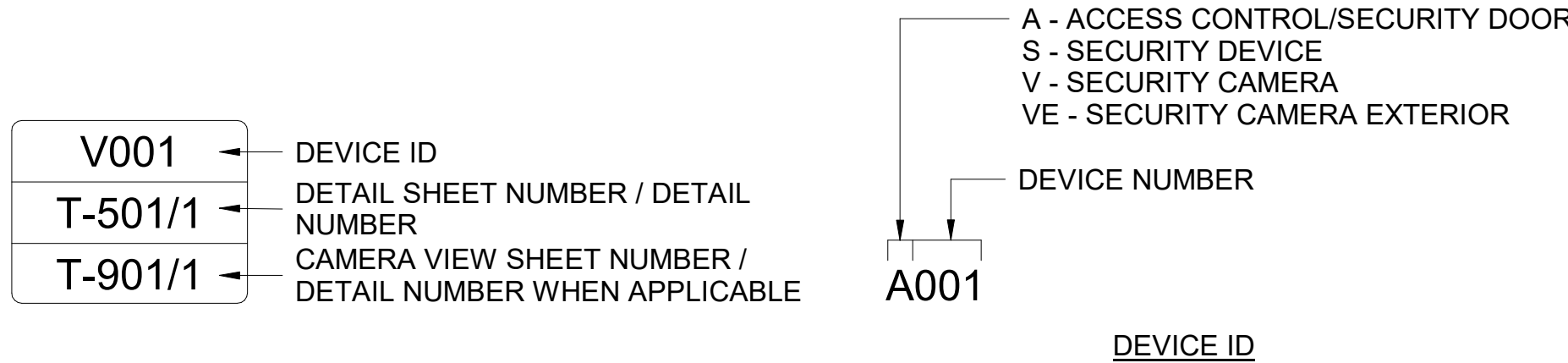


KEYNOTE REFERENCE SYMBOL



ACCESS CONTROL/SECURITY DOOR SURROUND CALLOUT

SHEET AND TAG SYMBOLS



ACCESS CONTROL/SECURITY TAG SYMBOL

DETAIL AND CAMERA VIEW SHEET NUMBER ID

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	JUNCTION BOX WALL MOUNTED
	JUNCTION BOX MOUNTED IN CEILING
	JUNCTION BOX MOUNTED IN FLOOR
	PULL BOX
	POWER POLE WITH DEVICES INDICATED (P-POWER, T-TELECOM, P/T-POWER AND TELECOM)
	VERTICAL CONDUIT - SIZE AND TYPE AS NOTED
	BREAK SYMBOL
	CONDUIT SLEEVE WITH BUSHINGS
	J-HOOK PATHWAY

CLOCK SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	275313	WALL-MOUNTED ANALOG DUAL FACE CLOCK.
	275313	WALL-MOUNTED ANALOG SINGLE FACE CLOCK.
	275313	WALL-MOUNTED SINGLE FACE PUBLIC ADDRESS IP SPEAKER WITH DIGITAL CLOCK DISPLAY, LED FLASHERS, AND TALKBACK MICROPHONE.
	275313	WALL-MOUNTED DUAL FACE PUBLIC ADDRESS IP SPEAKER WITH DIGITAL CLOCK DISPLAY, LED FLASHERS, AND TALKBACK MICROPHONE.
	275313	WALL-MOUNTED SINGLE FACE DIGITAL CLOCK DISPLAY AND LED FLASHERS.
	275313	WALL-MOUNTED DUAL FACE DIGITAL CLOCK DISPLAY AND LED FLASHERS.

SHEET INDEX

SHEET NUMBER	SHEET NAME	Sheet Discipline
T0.1	TECHNOLOGY LEGEND	00 TECHNOLOGY
T0.2	TECHNOLOGY LEGEND	00 TECHNOLOGY
T0.3	TECHNOLOGY NOTES	00 TECHNOLOGY
T1.1	FIRST FLOOR COMPOSITE PATHWAY RCP	00 TECHNOLOGY
T1.2	FIRST FLOOR DATA & A/V PLAN	00 TECHNOLOGY
T2.1	FIRST FLOOR SECURITY PLAN	00 TECHNOLOGY
T4.1	IT ROOM 112 ENLARGED AND ELEVATION PLANS	00 TECHNOLOGY
T5.1	COMPOSITE PATHWAY DETAILS	00 TECHNOLOGY
T5.2	DATA DETAILS	00 TECHNOLOGY

TELECOMMUNICATION SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	270528	WIRE MESH OR SOLID BOTTOM CABLE TRAY SYSTEM (REFER TO PLANS). 12"Wx4"D UNLESS OTHERWISE NOTED, MOUNTING HEIGHT IS TO BOTTOM OF TRAY. HEIGHT VARIES, REFER TO PLANS FOR ADDITIONAL INFORMATION.
	270528	WHEN USING A LADDER RACK CABLE TRAY SYSTEM THE "LADDER RACK. 12" WIDE UNLESS OTHERWISE NOTED."
	271500, 273123	WALL PHONE OUTLET. REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500, 273123	DATA OUTLET. "F" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA CEILING OUTLET. "F" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
	271500	DATA FLOOR OUTLET. "F" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (Z INDICATES A BLANK FACEPLATE). FLOOR BOX OR POKE THROUGH SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
	271500, 272133	CEILING MOUNTED WIRELESS ACCESS POINT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
	271500, 272133	WIRELESS ACCESS POINT WALL MOUNT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
	271100	TELECOM RACK ENCLOSURE - WALL MOUNTED.
	271100	TELECOM RACK FLOOR MOUNTED WITH 6 INCH VERTICAL CABLE MANAGERS
	271100	TELECOM EQUIPMENT CABINET - FREE STANDING
	271100	FIBER LIU EQUIPMENT CABINET - WALL MOUNTED
	271100	TELECOM MAIN GROUND BUS (PBB) OR TELECOM GROUND BUS (SBB)
	271300, 271500	CEILING MOUNTED CONSOLIDATION POINT
	273123	PROVIDE TELEPHONE HANDSET ASSOCIATED WITH ADJACENT FACEPLATE. (REFER TO TELEPHONE SPECIFICATIONS FOR DETAILS). "F" SUBSCRIPT INDICATES QUANTITY OF HANDSETS. NO SUBSCRIPT MEANS "1" HANDSET.

AUDIO VISUAL SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	274100	PRESENTATION POINT OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
	274100	DISPLAY OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. -IF P INDICATES OUTLET FOR INTERACTIVE FLAT PANEL, MOUNTED AT 60" AFF. COORDINATE WITH MOUNTING BRACKET AND ARCHITECTURAL.
	274100	PRESENTATION POINT OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
	274100	DISPLAY OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. -IF P INDICATES OUTLET FOR INTERACTIVE FLAT PANEL, MOUNTED AT 60" AFF. COORDINATE WITH MOUNTING BRACKET AND ARCHITECTURAL.
	274100	AUDIO/VIDEO OUTLET. REFER TO THE KEY NOTES ON FLOOR PLAN SHEET FOR OUTLET INFORMATION.
	274100	SOUND REINFORCEMENT AUDIO/VIDEO OUTLET. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
	274100	WALL-MOUNTED ULTRA SHORT THROW PROJECTOR. REFER TO THE CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
	274100	CEILING-MOUNTED PROJECTOR. REFER TO THE CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION.
	115213	SINGLE POLE DOUBLE THROW WALL SWITCH FOR PROJECTION SCREEN.
	115213	CEILING MOUNTED ELECTRIC PROJECTION SCREEN.
	274000	AUDIO VISUAL CAMERA W/BROADCASTING CAPABILITIES.
	274000	DISPLAY MONITOR. "X" INDICATES SIZE OF MONITOR EQUIPPED WITH MOUNTING BRACKET. -IF P INDICATES INTERACTIVE FLAT PANEL. COORDINATE WITH ARCHITECTURAL. "D" INDICATES DISPLAY IS EQUIPPED WITH DIGITAL MEDIA PLAYER.
	275120	AV RACK ENCLOSURE - WALL MOUNTED. SUBSCRIPT (X); (G) GYM; (AG) AUX GYM; (D) DINING; (T) THEATER; (N) NATATORIUM; (M) MUSIC; (I) INSTRUMENTAL; (V) VOCAL ROOM.
	274100, 275120, 275127	WALL MOUNTED SPEAKER. "S" INDICATES SOUND SYSTEM, OTHER SPEAKERS INCLUDE: (PA) PUBLIC ADDRESS; (CS) CLASSROOM SOUND FIELD; (SW) SUB WOOFER. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.
	274100, 275120, 275127	MICROPHONE FLOOR OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONLY ONE).
	274100, 275120, 275127	HANGING MIC FROM CEILING. SUBSCRIPT (H) FOR HANGING; (A) FOR ARRAY.
	275120	SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI, (1) USB, (1) MINI STEREO, (1) DISPLAY PORT.
	275120	SOUND SYSTEM WALL MOUNTED DIGITAL MEDIA INPUT PLATE (1) HDMI.
	275120	WALL MOUNTED MONITOR SPEAKER OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED. (BLANK IMPLIES ONE)
	275120	MONITOR SPEAKER FLOOR OUTLET. SUBSCRIPT NUMBER INDICATES QUANTITY OF OUTLETS REQUIRED (BLANK IMPLIES ONLY ONE). FLOOR BOX SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
	274000, 275120	TOUCH PANEL - WALL MOUNTED AUDIO VIDEO CONTROL INTERFACE. WIRELESS SYMBOL ONLY INCLUDED IF TP IS WIRELESS.
	274119	THEATER INTERCOM SPEAKER STATION. (TICM); PRODUCTION INTERCOM MAIN CONTROL.
	274119	PRODUCTION INTERCOM INPUT PLATE
	275116	PUBLIC ADDRESS HORN. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.
	275116	SOUND SYSTEM HORN
	275127	CLASSROOM SOUNDFIELD INFRARED RECEIVER.
	274119	WALL MOUNTED VOLUME CONTROL.
	274119	CEILING MOUNTED SOUND MASKING EMITTER.
	274119	CEILING MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
	274119	WALL MOUNTED WIRELESS MICROPHONE ANTENNA. (X INDICATES NUMBER DESIGNATION).
	274119	ASSISTED LISTENING INFRARED TRANSMITTER. SUBSCRIPT (X); (W) WIFI; (U) UHF.
	281300	CEILING MOUNTED STROBE LIGHT. SUBSCRIPT (X); (A) AMBER; (R) RED; (B) BLUE; (W) WHITE; (G) GREEN.



ACCESS CONTROL SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	281523	INTERCOM DOOR STATION
	281523	INTERCOM DOOR STATION W/VIDEO
	281523	MASTER INTERCOM DOOR STATION
	281523	EMERGENCY CALL STATION
	281300	CARD READER. SUBSCRIPT (X); (L) LONG RANGE; (VP) VEHICULAR PEDESTAL; OR WIRELESS SHOWN WITH WIRELESS SYMBOL.
	281300	CARD READER WITH PIN PAD
	281300	BIOMETRIC READER DEVICE ("_" INDICATES F-FINGER, H-HAND, I-IRIS, S-SIGNATURE, V-VOICE)
	281300	DOOR RELEASE STATION
	281300	ELECTRIC LOCK
	281300	MAGNETIC LOCK
	281300	DOOR CONTACT
	281300	REQUEST TO EXIT MOTION
	281300	REQUEST TO EXIT PUSH BUTTON
	281300	LOCAL SOUND
	281300	SCREENING DEVICE
	281300	WIRELESS LOCK
	281300	MAGNETIC DOOR HOLD
	281300	ELECTRIC DOOR HOLD/CLOSER
	281300	WIRELESS LOCK GATEWAY
	281300	ACCESS CONTROL PANEL - WALL MOUNTED

VIDEO SURVEILLANCE SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	282300	SINGLE SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	DUAL SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	SINGLE SENSOR PTZ IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR 180 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	QUAD SENSOR 270 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
	282300	SINGLE SENSOR 360 DEGREE FIXED FISH EYE IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
SYMBOL	EXAMPLE	DESCRIPTION
		CAMERA WALL MOUNT
		CAMERA CORNER MOUNT
		CAMERA POLE MOUNT
		CAMERA PARAPET/TELESCOPIC MOUNT
		CAMERA CEILING MOUNT (NO MOUNTING SYMBOL)

INTRUSION DETECTION SYMBOLS

SYMBOL	SECTION	DESCRIPTION
	281300	DURESS BUTTON
	281300	LOCK DOWN BUTTON
	281300	KEY SWITCH
	281300	ARM/DISARM KEYPAD
	281300	MOTION DETECTOR
	281300	MOTION DETECTOR - CEILING MOUNTED
	281300	GLASS BREAK SENSOR
	281300	GLASS BREAK SENSOR - CEILING MOUNTED
	281300	VIBRATION SENSOR
	281300	VIBRATION SENSOR - CEILING MOUNTED

NOT ALL SYMBOLOGY MAY BE USED

APP Architecture
creative focused design

Bicsi
Christy A Miller
BICSi ID #109630
EXPIRES 12-31-27
RCDD

BUILDING RENOVATION
ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ISSUE

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TITLE
TECHNOLOGY LEGEND

SHEET NO.
T0.1

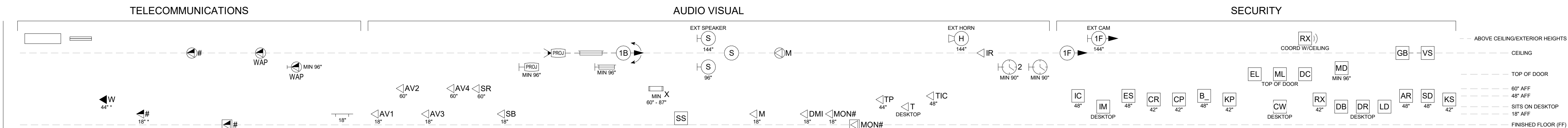


ABBREVIATIONS

3R	NEMA 3R ENCLOSURE	CO	COMMUNICATIONS OUTLET	IAW	IN ACCORDANCE WITH	OC	ON CENTER	TEL	TELEPHONE
4X	NEMA 4X ENCLOSURE	COAX	COAXIAL	IBC	INTERNATIONAL BUILDING CODE	OFC	OPTIC FIBER CABLE	TER	TELECOMMUNICATIONS EQUIP. ROOM
A	AMPERES	COMM	COMMUNICATIONS	IDF	INTERMEDIATE DISTRIBUTION FRAME	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	TR	TELECOMMUNICATIONS ROOM
AC	ABOVE COUNTER	CT	CABLE TRAY	IG	ISOLATED GROUND	OFOI	OWNER FURNISHED OWNER INSTALLED	TV	TELEVISION
ACS	ACCESS CONTROL SYSTEM	CU	COPPER	IMC	INTERMEDIATE METAL CONDUIT	OICF	OWNER INSTALLED CONTRACTOR FURNISHED	TYP	TYPICAL
AFC	ABOVE FINISHED CEILING	DC	DIRECT CURRENT	IP	INTERNET PROTOCOL	OM3	LASER OPTIMIZED MULTIMODE, CLASS 3	U/G	UNDERGROUND
AFF	ABOVE FINISHED FLOOR	DEG	DEGREE	JB	JUNCTION BOX	OS	OCCUPANCY SENSOR	UL	UNDERWRITERS LABORATORIES
AHJ	AUTHORITY HAVING JURISDICTION	DEMO	DEMOLITION	KVA	KILOVOLT - AMPERES	OSP	OUTSIDE PLANT	UNIV	UNIVERSAL
AL	ALUMINUM	DEPT	DEPARTMENT	KW	KILOWATTS	PB	PULL BOX	UON	UNLESS OTHERWISE NOTED
ALT	ALTERNATIVE BID OPTIONS	DIA	DIAMETER	LAN	LOCAL AREA NETWORK	PBB	PRIMARY BUS BAR	UTP	UNSHIELDED TWISTED PAIR
ANNUN	ANNUNCIATOR	DISC	DISCONNECT	MAX	MAXIMUM	PET	PROTECTED ENTRANCE TERMINAL	V	VOLTS
ARCH	ARCHITECT	DIST	DISTRIBUTION	MC	MAIN CROSS-CONNECT	PR	PAIR	VIF	VERIFY IN FIELD
ATS	AUTOMATIC TRANSFER SWITCH	DN	DOWN	MCB	MAIN CIRCUIT BREAKER	PT	POKE THRU	VOIP	VOICE OVER INTERNET PROTOCOL
AV	AUDIO VISUAL	DP	DEEP OR DEPTH	MCC	MOTOR CONTROL CENTER	PTZ	PAN-TILT-ZOOM	VSS	VIDEO SURVEILLANCE SYSTEM
AVOIP	AUDIO VISUAL OVER INTERNET PROTOCOL	DPDT	DOUBLE POLE DOUBLE THROW	MCM	THOUSAND CIRCULAR MILS	PVC	POLYVINYL CHLORIDE	W	WATTS
AWG	AMERICAN WIRE GAUGE	DWG	DRAWING	MER	MAIN EQUIPMENT ROOM	PWR	POWER	W/	WITH
BFG	BELOW FINISHED GRADE	EA	EACH	MH	MAINTENANCE HOLE	R	RECESSED	WAP	WIRELESS ACCESS POINT
BKBD	BACKBOARD	EC	ELECTRICAL CONTRACTOR	MIN	MINIMUM	RGS	RIGID GALVANIZED STEEL	WP	WEATHERPROOF
BLDG	BUILDING	EES	EARTH ELECTRODE SYSTEM	MISC	MISCELLANEOUS	RM	ROOM	WPG	WEATHERPROOF WITH GROUND
BOTT	BOTTOM	EF	ENTRANCE FACILITY	MLO	MAIN LUGS ONLY	RMC	RIGID METAL CONDUIT	XFMR	TRANSFORMER
C	CONDUIT	ELEC	ELECTRIC, ELECTRICAL	MM	MULTIMODE FIBER	RU	RACK UNIT	XP	EXPLOSION PROOF
C/B	CIRCUIT BREAKER	EMT	ELECTRIC METALLIC TUBING	MNS	MASS NOTIFICATION SYSTEM	SBB	SECONDARY BUS BAR	Y	WYE
C/T	CURRENT TRANSFORMERS	EQUIP	EQUIPMENT	MON	MONITOR	SCR	SHORT CIRCUIT RATING	Δ	DELTA
CAB	CABINET	ER	EQUIPMENT ROOM	MTD	MOUNTED	SCTP	SCREENED TWISTED PAIR		
CAT	CATEGORY	ESS	ELECTRONIC SAFETY & SECURITY	MTG	MOUNTING	SF	SQUARE FEET		
CATV	COMMUNITY ANTENNA TELEVISION	EXIST	EXISTING	NC	NORMALLY CLOSED	SHT	SHEET		
CCTV	CLOSED CIRCUIT TELEVISION	FT	FEET	NEC	NATIONAL ELECTRICAL CODE	SPEC	SPECIFICATIONS		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GEN	GENERATOR	NIC	NOT IN CONTRACT	SR	SOUND REINFORCEMENT		
CKT	CIRCUIT	GFI	GROUND FAULT INTERRUPT	NL	NIGHT LIGHT CIRCUIT	STD	STANDARD		
CLG	CEILING	GND	GROUND	NO	NORMALLY OPEN	SURF	SURFACE		
CLST	CLOSET	HH	HANDHOLE	NTS	NOT TO SCALE	TBD	TO BE DETERMINED		

TYPICAL COMPONENT MOUNTING HEIGHTS

- NOTES
- ALL DIMENSIONS SHOWN ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE GRADE (AG) TO CENTERLINE OF COMPONENT.
 - USE STANDARD MOUNTING HEIGHTS UON. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL MOUNTING HEIGHT DETAILS. PROJECT PLANS AND DETAILS MAY PROVIDE ADDITIONAL GUIDANCE.



NOT ALL SYMBOLOGY MAY BE USED

ISSUE		
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GENERAL NOTES

A	1	NOT ALL NOTES INDICATED ON THIS SHEET MAY BE APPLICABLE FOR ALL PROJECT CONDITIONS. NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS.
	2	THE DRAWINGS INDICATE THE QUANTITY, TYPE AND GENERAL LOCATION OF VOICE/DATA/CATV/AUDIO/VIDEO OUTLETS REQUIRED IN EACH SPACE. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND PROJECT MANAGEMENT NECESSARY FOR A TURNKEY SYSTEM.
	3	ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
	4	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED INSPECTIONS.
	5	REFER TO THE ARCHITECTURAL INTERIOR ELEVATIONS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS FOR ADDITIONAL DETAILS. COORDINATE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN.
	6	ALL BIDDERS SHALL VISIT AND EXAMINE THE SITE. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR FOR FAILURE TO IDENTIFY DISCREPANCIES DURING THE BIDDING PERIOD.
B	7	THE CONTRACTOR SHALL INCLUDE ALL OVERTIME AND PREMIUM TIME WORK THAT MUST BE PERFORMED DURING THE PERIOD OF PERFORMANCE. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR OVERTIME WORK.
	8	COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL AND COMMUNICATION WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.
	9	THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW CONSTRUCTION FROM DAMAGE. EXISTING CEILINGS, WALLS, FLOORS AND ALL OTHER BUILDING COMPONENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IF DAMAGED. ALL DAMAGES TO THE BUILDING OR ITS CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE TO THE OWNERS SATISFACTION.
	10	ALL NEW CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE.
	11	ALL WORK REQUIRING POWER OR COMMUNICATION OUTAGES OR DISRUPTION OF OWNER FUNCTIONS SHALL BE COORDINATED WITH THE PROJECT ENGINEER, OWNER AND OWNER ITS DEPARTMENT. REQUESTS FOR, NOTIFICATIONS OF, AND APPROVALS FOR OUTAGES AND DISRUPTIONS SHALL BE MADE TO OWNER AND THE ENGINEER IN WRITING, 2 WEEKS PRIOR TO THE REQUESTED OUTAGE DATE. OUTAGES SHALL NORMALLY OCCUR DURING THE OWNER'S "OFF" HOURS.
	12	ALL COMMUNICATION WORK SHALL BE INSTALLED BY CERTIFIED CONTRACTORS AND THEIR EMPLOYEES PER THE CONTRACT DOCUMENTS.
C	13	THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT INSTALLATION TO MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGeways CLEAR. THE CONTRACTOR SHALL COORDINATE SYSTEMS INSTALLATION TO MINIMIZE CONFLICT WITH EXISTING BUILDING UTILITIES AND OTHER TRADES WORK.
	14	THE CONTRACTOR SHALL VERIFY EQUIPMENT RACK AND CABINET PLACEMENT AND LAYOUT WITH OWNER AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
	15	ANY LOW VOLTAGE CABLING IN AN OPEN-CEILING AREA (EXAMPLE GYMNASIUM) SHALL BE INSTALLED IN CONDUIT TO THE NEAREST ACCESSIBLE CABLE TRAY OR TELECOM ROOM (TR) UNLESS NOTED OTHERWISE.
	16	ALL INSTALLATIONS OF EXPOSED EQUIPMENT SHALL BE COORDINATED WITH ASSOCIATED ARCHITECTURAL DETAILS TO MEET INTENDED AESTHETIC APPEARANCE. ALL WIRING, CONDUITS, BACK BOXES AND OTHER ASSOCIATED CONNECTIONS SHALL BE CONCEALED BEHIND EQUIPMENT OR WITHIN EXPOSED MOUNTED BRACKETS. EXPOSED WIRING IS PROHIBITED.
	17	THE COLOR AND FINISH OF ALL EXPOSED DEVICES IN PUBLIC AREAS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
	18	ALL CONDUIT FRAMING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUITS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS. ANGLED CONDUITS ARE PROHIBITED.
D	19	INCLUDE ALL REQUIRED JUNCTION AND PULL BOXES REGARDLESS OF INDICATION ON THE DRAWINGS (WHICH DUE TO THE SYMBOLIC METHODS OF NOTATION, MAY BE OMITTED).
	20	PULL-BOXES SHALL BE PROVIDED WHERE THE COMBINED SUM OF THE BENDS EXCEEDS 180 DEGREES AND/OR EVERY 100 LINEAR FEET. THE BEND RADIUS FOR CONDUITS SHALL BE 10X THE OUTSIDE DIAMETER FOR OPTICAL FIBER AND 4X THE OUTSIDE DIAMETER FOR MULTIPAIR COPPER.
	21	PROVIDE LONG SWEEPING BENDS FOR ALL COMMUNICATIONS CONDUITS 2-INCHES AND LARGER. LB FITTINGS FOR COMMUNICATION CONDUITS ARE PROHIBITED.
	22	PROVIDE PULL TAPE IN ALL EMPTY CONDUIT AND INNERDUIT. PULL TAPE SHALL BE RATED FOR 200 LBS IN ALL CONDUIT.
	23	CABLE TRAY SHALL BE TRAPEZE OR CANTILEVER MOUNTED ONLY. BOND ALL SECTIONS OF TRAY TOGETHER WITH MANUFACTURER APPROVED BONDING METHOD PER NEC. ALL CABLE TRAY TO BE 12-INCHES WIDE. UON. CABLE TRAY SHALL BE PROVIDED WITH 25 PERCENT SPARE CAPACITY.
	24	PROVIDE A MINIMUM OF FOUR (4) CONDUITS BETWEEN STACKED CLOSETS ON SUCCESSIVE FLOORS.
E	25	ALL COMMUNICATIONS OUTLET BOXES SHALL BE 4 1/16-INCH SQUARE BY 2 1/2-INCH DEEP WITH A MUD RING UON. PROVIDE A MINIMUM OF ONE (1) 1-INCH CONDUIT FOR ALL COMMUNICATIONS OUTLET BOXES. REFER TO COMMUNICATIONS DETAILS FOR SPECIFIC OUTLET BOX AND CONDUIT QUANTITY AND SIZE INFORMATION.
	26	ALL EQUIPMENT SHALL BE NEW. UON.
	27	BOND ALL METALLIC EQUIPMENT, RACKS, CABINETS, CABLE TRAY, CONDUITS, SLEEVES, ETC. TO THE PBB, OR THE SBB IN CONNECTION WITH THE BONDING ELECTRODE SYSTEM WITH 2-HOLE IRREVERSIBLE COMPRESSION TYPE CONNECTORS WITH 2-HOLE LUGS. ALL CONDUITS SHALL BE REAMED WITH BUSHINGS INSTALLED.
	28	PROVIDE ALL CORE DRILLING, CUTTING, AND PATCHING AND RESTORATION OF ALL FINISHED AREAS REQUIRED TO INSTALL ALL CONDUITS, SLEEVES, BOXES, ETC. SEAL ALL CORE DRILLS AFTER RACEWAY, CONDUITS, ETC. ARE INSTALLED.
	29	PLACEMENT OF UNAUTHORIZED CABLING IN THE COMMUNICATIONS PATHWAYS I.E. CABLE TRAY, J HOOKS, RACEWAY, ETC. IS PROHIBITED.
	30	ALL SLEEVES AND PENETRATIONS SHALL BE ACOUSTICALLY AND FIRE TREATED TO MEET WALL RATING. FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS OF CONDUITS, BUS DUCTS, CABLES, CABLE TRAYS AND OTHER COMMUNICATIONS ITEMS. REFER TO THE THROUGH PENETRATION FIRESTOPPING SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
F	31	CONTRACTORS RESPONSIBILITY TO WHEEL OFF CABLE DISTANCES FROM TERMINATION TO DEVICE PRIOR TO INSTALLATION.

GENERAL AUDIO VISUAL NOTES

A	1	SUPPLY ALL JACKS, RACKS, WIRE, CABINETRY, CONNECTORS, MATERIALS, PARTS, EQUIPMENT AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF THE SYSTEMS, IN FULL ACCORDANCE WITH THE RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURERS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
	2	REFER TO FLOW DIAGRAMS, RISERS, AND SPECIFICATIONS FOR COMPLETE OPERATIONAL REQUIREMENTS. CONTRACTOR IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
	3	WHERE SIGNAL TYPES ARE PROVIDED AND NO CABLE TYPE INDICATED THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE INTERCONNECT CABLE BASED ON THE SIGNAL TYPE REQUIREMENTS.
	4	ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED. CONDUITS SHALL BE CONCEALED, UON.
	5	STRUCTURAL SUPPORT FOR AUDIOVISUAL EQUIPMENT SHALL BE PROVIDED BY OTHERS AT LOCATIONS DESIGNATED ON THESE DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BLOCKING FOR WALL MOUNTED DEVICES AND OVERHEAD SUPPORT FOR CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS AND REQUIREMENTS.
	6	CEILING MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE.
B	7	ALL EXPOSED INTERCONNECT CABLES SHALL BE MOLDED CONNECTOR TYPE. FIELD TERMINATED INTERCONNECT CABLES ARE PROHIBITED.
	8	FURNITURE LAYOUT INDICATED ON DRAWINGS IS NOT FINAL AND MAY DIFFER. COORDINATE FINAL FURNITURE CONFIGURATION WITH OWNER PRIOR TO FABRICATION/CONSTRUCTION.
	9	TERMINAL BLOCK, BOARDS, STRIPS, OR CONNECTORS SHALL BE FURNISHED FOR ALL CABLES, WHICH INTERFACE WITH RACKS, CABINETS, CONSOLES, OR EQUIPMENT MODULES.
	10	ROUTE ALL CABLE AND WIRING WITHIN EQUIPMENT RACKS ACCORDING TO FUNCTION, SEPARATING WIRES OF DIFFERENT SIGNAL LEVELS (MICROPHONE, LINE LEVEL, AMPLIFIER OUTPUT, AC, ETC.) BY AS MUCH DISTANCE AS POSSIBLE. NEATLY ARRANGE AND BUNDLE ALL CABLE LOOSELY WITH HOOK-N-LOOP TIES.
	11	POWER CABLES, CONTROL CABLES, AND HIGH-LEVEL CABLES SHALL BE INSTALLED ON THE LEFT SIDE OF AN EQUIPMENT RACK, AS VIEWED FROM THE REAR. ALL OTHER CABLES SHALL BE INSTALLED ON THE RIGHT SIDE OF THE EQUIPMENT RACK, AS VIEWED FROM THE REAR.
	12	CABLING WITHIN RACKS SHALL BE CONTAINED IN "FINGER TRAY" OR HOOK-N-LOOP TIED TO THE SIDE OF THE RACK IN A NEAT AND ORDERLY FASHION.
C	13	ALL CABLES ROUTED OUTSIDE OF RACKS AND CONDUIT SHALL BE CONTAINED IN A SUITABLE HARNESS OR WIREWAY TO MAINTAIN A NEAT AND CLEAN INSTALLATION.
	14	OBSERVE PROPER CIRCUIT POLARITY AND LOUDSPEAKER WIRING POLARITY. NO CABLES SHALL BE WIRED WITH A POLARITY REVERSAL BETWEEN CONNECTIONS, AT EITHER END.
	15	ALL CABLES SHALL BE CONTINUOUS LENGHTS WITHOUT SPLICES. ALL SYSTEM WIRE (EXCEPT SPARE WIRE, AFTER BEING CUT AND STRIPPED) SHALL BE TERMINATED BY ITS APPROVED MECHANICAL MEANS.
	16	CLEARLY AND PERMANENTLY LABEL ALL JACKS, CONTROLS, CONNECTIONS, AND SO FORTH. ALL LABELING SHALL BE COMPLETED PRIOR TO FINAL SYSTEM EQUALIZATION. HAND LABELING IS PROHIBITED.
	17	ALL EQUIPMENT SHALL BE HELD FIRMLY IN PLACE WITH APPROPRIATE MOUNTING HARDWARE. ALL EQUIPMENT SHALL BE INSTALLED TO PROVIDE REASONABLE SAFETY TO THE OPERATOR. SUPPLY ADEQUATE VENTILATION FOR ALL ENCLOSED EQUIPMENT ITEMS WHICH PRODUCE HEAT.
	18	A MOCK-UP AND MEETING SHALL OCCUR FOR TYPICAL PRESENTATION WALL TECHNOLOGY WHERE INTERACTIVE PROJECTORS AND/OR INTERACTIVE FLAT PANELS OCCUR. WALL SHALL BE FINISHED AND PROJECTOR MARKERBOARD AND/OR VISUAL WALL DISPLAY WALLCOVERING, INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL, DATA AND AV CONNECTIVITY, ELECTRICAL AND ALL ACCESSORIES SHALL BE INSTALLED. CONSTRUCTION MANAGER, ARCHITECT, PROJECTOR MARKERBOARD AND/OR VISUAL DISPLAY WALLCOVERING INSTALLER/CONTRACTOR, TECHNOLOGY INSTALLER/CONTRACTOR, AND ELECTRICAL INSTALLER/CONTRACTOR SHALL BE PRESENT TO REVIEW MOCK-UP. PURPOSE OF MOCK-UP IS TO CONFIRM INTERACTIVE TECHNOLOGY IS FUNCTIONING AS INTENDED, THAT THERE IS PROPER COORDINATION BETWEEN THE WALL SURFACE, THE PROJECTOR MARKERBOARD OR VISUAL DISPLAY WALLCOVERING AND THE INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL. ALL FINAL MOUNTING HEIGHTS FOR DIFFERENT ROOMS AND SPACES SHALL BE CONFIRMED AT THE MOCK-UP REVIEW.

AUDIO VISUAL SYSTEM ROUGH IN AND INFRASTRUCTURE...

1	LARGE DISPLAYS (70" AND UP); BACK BOX WITH AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER CHIEF PACS25FBP2; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP FOR DISPLAY. (ONE NETWORK DROP FOR WIRELESS GATEWAY).
2	DIGITAL SIGNAGE DISPLAYS; BACK BOX WITH FLANGE AND COVER CHIEF PACS25FCW OR CHIEF PACS25FBP2 AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF TWO NETWORK DATA DROPS ONE FOR DISPLAY ONE FOR SIGNAGE PLAYER.
3	DISPLAYS (70" AND BELOW); BACK BOX WITH FLANGE AND COVER CHIEF PACS25FCW OR CHIEF PACS25FBP2 AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP FOR DISPLAY. (ONE NETWORK DROP FOR WIRELESS GATEWAY).
4	AUDIO INPUT PLATE: (PASSIVE) 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
5	DIGITAL MEDIA PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.
6	DANTE I/O PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.
7	SDI CAMERA: SINGLE OR 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
8	AV CONTROL TOUCH PANEL: 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".
9	AUDIO VISUAL FLOOR POKE THRU MIDDLE ATLANTIC EVOLUTION 8" OR 10" POKE THRU WITH RECEPTACLES, COVER AND INTERIOR PLATE OPTIONS.

GENERAL TELECOM NOTES

1	ALL WORK SHALL COMPLY WITH APPLICABLE ANSI/TIA/BICSI STANDARDS.
2	FIELD COORDINATE THE LOCATION OF COMMUNICATIONS EQUIPMENT IN ALIGNMENT WITH APPLICABLE CODES.
3	THE CONTRACTOR SHALL COORDINATE DEVICE OUTLET LOCATIONS WITH ARCHITECTURAL AND CASEWORK DRAWINGS PRIOR TO ROUGH-IN. REPORT ANY CONFLICTS TO THE CM, ARCHITECT, AND ENGINEER FOR RESOLUTION.
4	ALL COMMUNICATIONS CABLING SHALL BE INSTALLED IN CONDUITS, CABLE TRAY, OR AN APPROVED RACEWAY SYSTEM. WHERE CABLE TRAY, CONDUIT, OR RACEWAY IS NOT AVAILABLE ALL CABLES SHALL BE INSTALLED IN J-HOOKS SUPPORTED EVERY 5-FEET, SUFFICIENT IN SIZE TO HANDLE ALL BUNDLED CABLES WHILE MINIMIZING CRUSHING. COPPER AND FIBER OPTIC CABLES WILL BE DIVIDED INTO SEPARATE BUNDLES AND INSTALLED IN SEPARATE J-HOOKS; IF CABLE SLACK EXCEEDS 12-INCHES BETWEEN SUPPORTS, ADDITIONAL SUPPORTS WILL BE INSTALLED TO TAKE UP SLACK AND RELIEVE CABLE STRESS.
5	CATEGORY 6/6A CABLES SHALL BE CONTINUOUS FROM TELECOM ROOM TO WORK AREA OUTLET AND FREE FROM SPLICES, REVERSES, GROUNDS, OR OTHER CONNECTIONS. PROVIDE A 5-FOOT SERVICE LOOP IN THE CEILING (AT THE WORK AREA END) FOR EACH HORIZONTAL CABLE.
6	DO NOT INSTALL CATEGORY 6/6A HORIZONTAL CABLES THAT EXCEED 90 METERS.
7	ALL COPPER TERMINATION HARDWARE SHALL BE 110 STYLE IDC, UON.
8	COMMUNICATIONS CABLING SHALL NOT BE SPLICED, UON.
9	COMMUNICATIONS CONDUIT FILL CAPACITIES ARE GOVERNED BY THE NFPA-70 (NEC) AND SHALL BE FOLLOWED. DO NOT EXCEED 40 PERCENT FILL ON INITIAL PULL ON ANY COMMUNICATIONS CONDUIT.
10	CAREFULLY LAY ALL CABLE WITH APPROPRIATE RADIUS OF CURVATURE AND PROTECT AT BENDS AND CORNERS. OBSERVE MINIMUM BEND RADIUS AND TENSION LIMITATIONS AS SPECIFIED BY TIA. ANY ADDITIONAL SLEEVES AND/OR PENETRATIONS REQUIRED FOR THE INSTALLATION OF COMMUNICATIONS SYSTEM CABLING NOT SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11	THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED CABLES ARE FREE FROM TWISTS, KINKS, SHARP BENDS, CUTS, GOUGES OR ANY OTHER PHYSICAL DAMAGE.
12	MONITOR CABLE PULL TENSION TO ENSURE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS ARE NOT EXCEEDED.
13	ALL CATEGORY 6/6A CABLING MAY BE ROUTED IN THE SAME PATHWAY.
14	THE CONTRACTOR SHALL ENSURE ALL CATEGORY 6/6A CABLING IS SEPARATED FROM LIGHTING, POWER, 70-VOLT AUDIO, MICROPHONE LEVEL, RF, AND SPEAKER LEVEL CIRCUITS IAW ANSI/TIA-568 GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES.
15	CABLING ASSOCIATED WITH THE WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH A COIL OF CABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE LOCATIONS OF THE WIRELESS ACCESS POINTS, AS REQUIRED, AFTER CONDUCTING A SITE VERIFICATION SURVEY TO ENSURE COVERAGE THROUGHOUT THE FACILITY.
16	ALL HORIZONTAL AND BACKBONE COMMUNICATIONS CABLING SHALL BE PLENUM RATED, UON. ANY LOW VOLTAGE DEVICE INSTALLED IN A PLENUMATED ENVIRONMENT MUST BE RATED FOR PLENUM USE.
17	ALL COMMUNICATIONS CABLING INSTALLED UNDER THE FLOOR SLAB SHALL BE WET-LISTED, CONCEAL CABLING WITHIN CONDUIT BACK TO THE TERMINATION LOCATION OR TRANSITION TO PLENUM RATED CABLING ABOVE THE CEILING.
18	ALL COMMUNICATIONS CABLING SHALL BE PROTECTED FROM EXPOSURE TO PAINT OR ANY OTHER FOREIGN MATERIAL THAT WOULD NEGATIVELY IMPACT THE VALIDITY OF THE MANUFACTURER'S PERFORMANCE WARRANTY. IF ANY CABLE IS EXPOSED TO PAINT AT ANY POINT, REGARDLESS OF THE AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE CABLE(S) AFFECTED AND WILL REPLACE THE CABLE(S) AT NO COST TO THE OWNER PER THE INSTALLATION SPECIFICATIONS INCLUDING TESTING.
19	PROVIDE ALL COPPER PATCH CORDS AND OPTICAL FIBER JUMPERS AT BOTH THE WORK AREA AND TELECOM ROOM ENDS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.
20	ALL LABELING SHALL COMPLY WITH ANSI/TIA-606 ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE. PROVIDE LABELING FOR ALL MODULAR OUTLETS, FACEPLATES, PATCH PANELS, CABLES, PATCH CABLES, FIBER SPLICE TRAYS, RACKS, CABINETS, PBB/SBB(S), ETC. REFER ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS FOR THE OWNERS EXACT REQUIREMENTS.
21	TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND ELECTRICAL RECEPTACLE PLATE FINISHES.
22	EQUIPMENT CABINETS AND PATCH PANELS SHALL BE ARRANGED TO ALLOW FOR A NATURAL WIRING PROGRESSION IN FUNCTIONAL FIELDS. MINIMIZE CROSSING OF WIRES AND ALLOW FOR EASY ACCESS TO ALL COMPONENTS.
23	SURFACE MOUNTED RACEWAY SHALL BE USED BELOW LAY-IN CEILING IN REMOLDED AREA WHERE CONDUIT, WIRING AND DEVICES CANNOT BE CONCEALED. PROVIDE LEGRAND WIREMOLD 4000 SERIES OR EQUAL, UON. PROVIDE COMPLETE WITH ALL FITTINGS, BARRIERS, COVERS AND MOUNTING ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER. COORDINATE ROUTING OF RACEWAY WITH ARCHITECT PRIOR TO ROUGH-IN.
24	PROVIDE (2) 1" PENETRATION SLEEVES INTO EVERY CLASSROOM AND OR OFFICE SPACE FROM CORRIDOR. MUST BE FIRESTOPPED PER NFPA 70.
25	PROVIDE A FIRESTOP BARRIER FOR EACH PENETRATION WHERE CABLE TRAY EXTENDS OR CONTINUES THROUGH FIRE RATED WALL PER NFPA 70.

GENERAL SECURITY NOTES

1	THE LOCATION OF EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EQUIPMENT PRIOR TO THE START OF WORK.
2	THE DRAWINGS FOR SECURITY WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE SECURITY DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.
3	THE ORIENTATION OF THE SYMBOLS REFLECTS THE GENERAL MOUNTING LOCATION AND ORIENTATION OF THE DEVICE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CM, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
4	ALL COMPONENTS PROVIDED ARE TO BE LISTED FOR USE IN THE SYSTEM INDICATED INCLUDING, BUT NOT LIMITED TO: UL294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS UL634 STANDARD FOR CONNECTORS AND SWITCHES FOR USE WITH BURGLAR-ALARM SYSTEMS UL639 STANDARD FOR INTRUSION-DETECTION UNITS UL1076 PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS UL2044 STANDARD FOR COMMERCIAL CLOSED-CIRCUIT TELEVISION EQUIPMENT UL2802 STANDARD FOR PERFORMANCE TESTING OF CAMERA IMAGE QUALITY
5	REFER TO COMMUNICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
6	THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC INPUT POWER FOR POWER SUPPLIES. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE EQUIPMENT NECESSARY FOR SECURITY HARDWARE OPERATION.
7	ALL SECURITY INFRASTRUCTURE SHALL BE INSTALLED IN ENCLOSED METALLIC PATHWAYS SUCH AS CONDUIT, ENCLOSED CABLE TRAY, AND ENCLOSED WIREWAYS TO THE ASSOCIATED SECURITY PANEL.
8	ALL ENCLOSURES AND INTRUSION DETECTION DEVICES WITH REMOVABLE COVERS SHALL HAVE TAMPER PROTECTION DEVICES CAPABLE OF BEING MONITORED CONTINUOUSLY.
9	WHERE APPLICABLE, COORDINATE WITH ELEVATOR CONTRACTOR FOR SPECIAL CONDUCTORS IN THE TRAVEL CABLE FOR ACCESS CONTROL, INTRUSION DETECTION, AND VIDEO SURVEILLANCE DEVICES.
10	ALL SECURITY CABLES SHALL BE FROM THE SAME MANUFACTURER AND LISTED FOR THE ENVIRONMENT THEY ARE INSTALLED. FOLLOW ALL MANUFACTURER INSTRUCTION FOR VOLTAGE DROP AND DISTANCE. REFER TO SPECIFICATIONS FOR CABLE TYPES.
11	JUNCTION BOXES FOR SECURITY CABLING SHALL HAVE TAMPER-PROOF SCREWS.
12	REFER TO THE SECURITY ONE-LINE DIAGRAMS AND DOOR ELEVATION DRAWINGS FOR ADDITIONAL GENERAL NOTES.
13	SECURITY EQUIPMENT SCHEDULES ARE PROVIDED AS A GUIDE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DEVICES IDENTIFIED AND PROVIDE THE APPROPRIATE NUMBER OF DEVICES AS IDENTIFIED ON THE FLOOR PLANS.
14	THE CONTRACTOR SHALL PROVIDE CAMERA LICENSES FOR EACH NEW INSTALLED CAMERA.
15	THE CONTRACTOR IS RESPONSIBLE FOR INITIAL CAMERA AIMING, CAMERA PROGRAMING, AND FINAL CHECKOUT WITH THE OWNER AND OWNERS REPRESENTATIVE.
16	WHERE ADVANCED SECURITY SYSTEM INTEGRATION IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION ACTIVITIES BETWEEN THE ASSOCIATED SYSTEM PROVIDERS TO THE SATISFACTION OF THE OWNER AND OWNERS REPRESENTATIVE.

GENERAL DEMOLITION NOTES

1	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITH RESPECT TO MATERIALS AND DIMENSIONS TO DETERMINE THE EXACT EXTENT OF DEMOLITION WORK.
2	AREAS INDICATED FOR DEMOLITION ARE APPROXIMATE. THERE MAY BE CONDITIONS WHERE DEMOLISHED UTILITIES ARE NOT WHERE INDICATED ON DRAWINGS. FULL EXTENT OF DEMOLITION SHALL BE DETERMINED AT THE JOB SITE BY THE CONTRACTOR.
3	ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION AND CONSTRUCTION TO PREVENT DAMAGE TO ADJACENT MATERIALS AND CONCEALED MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER ITEMS.
4	PRIOR TO COMMENCING DEMOLITION WORK, VERIFY ALL UTILITIES HAVE BEEN TURNED OFF AND/OR CAPPED AS REQUIRED IN AREAS WHERE DEMOLITION IS TO OCCUR.
5	DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
6	SEE ARCHITECTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
7	ALL WORK AND EQUIPMENT SHALL CONFORM TO NEC. THE MEANS AND METHODS USED BY THIS CONTRACTOR SHALL CONFORM TO NEC SECTION 110-3 (a AND b).
8	WHERE INDICATED, ALL FIBER CABLE, DATA CABLE, RF CABLE, AND AUDIO-VISUAL CABLING SHALL BE DISCONNECTED AND REMOVED FROM THE OUTLET BOXES TO THEIR SOURCE ENDPOINTS.
9	CONTRACTOR SHALL REMOVE TELECOMMUNICATIONS DATA OUTLETS, EQUIPMENT, CABLING AND ALL RELATED ITEMS. PROPERLY DISPOSE OR RECYCLE ALL DEMOLISHED ITEMS PER LOCAL CODE AND AHJ REQUIREMENTS.
10	IN EXISTING COMMUNICATIONS ROOMS, THE CONTRACTOR SHALL COORDINATE THE EXTENT OF COMMUNICATIONS DEMOLITION WITH THE OWNER.
11	ANY DAMAGE INCURRED DURING DEMOLITION SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR.

GENERAL OUTSIDE PLANT (OSP) NOTES

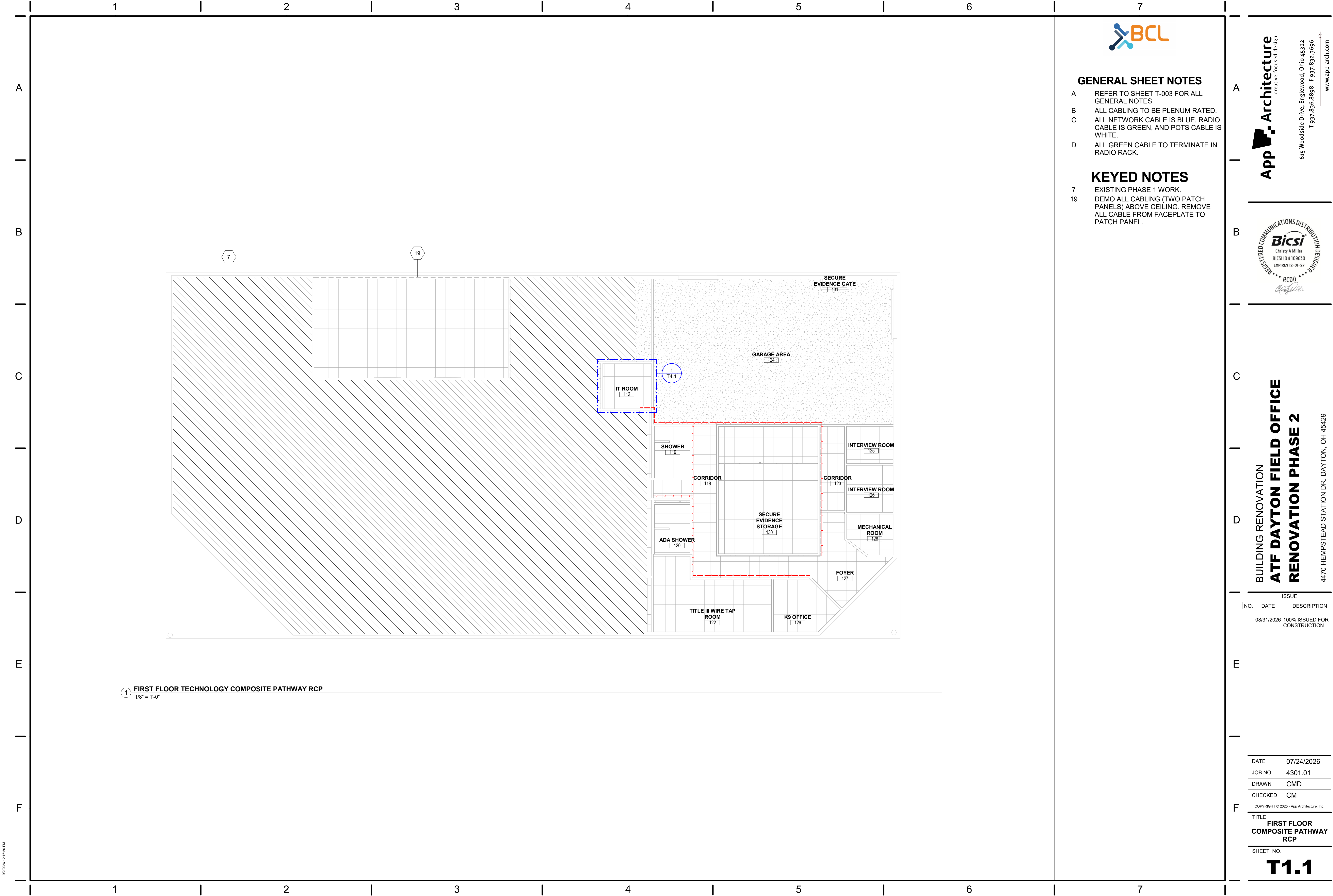
1	THE LOCATION OF EQUIPMENT AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE. THERE IS NO GUARANTEE AS TO THEIR ACCURACY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EQUIPMENT WITH THE OWNER AND EXERCISE CAUTION WHEN PERFORMING WORK IN THE AREA.
2	FIELD COORDINATE LOCATION OF NEW EQUIPMENT IAW APPLICABLE CODES.
3	PRIVATE PROPERTY: TRENCHES ON PRIVATE PROPERTY AND AREAS NOT SUBJECT TO VEHICULAR TRAFFIC MAY BE BACKFILLED WITH NATIVE MATERIAL AND SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS AND COMPACTED TO 80% MAXIMUM DENSITY PER ASTM D1557.
4	NATIVE BACKFILL: REFER TO SOIL REPORTS.
5	COMPACTION: ALL COMPACTION SHALL BE BY HAND-OPERATED, PLATE TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTORS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM COMMUNICATIONS DESIGNER OF RECORD.
6	OBTAIN THE SIGNATURE OF THE OWNER AND OWNER'S REPRESENTATIVE SIGNIFYING THE ACCEPTABILITY OF THE DUCT PLACEMENT PRIOR TO POURING ANY CONCRETE FOR THE DUCT BANK.
7	INSTALL A PERMANENT TRACER WIRE (POLYETHYLENE INSULATED), CENTRALLY LOCATED IN TOP OF CONDUIT FORMATION, OF EACH COMMUNICATIONS DUCT BANK AND CORRESPONDING STUB OUTS. COMPRESSION TYPE CONNECTORS SHALL BE USED FOR ALL SPLICES. TEST THE WIRE FOR CONTINUITY AFTER INSTALLATION AND PROVIDE THE TEST RESULTS WITH THE AS BUILT DOCUMENTS. THE TRACER WIRE SHALL BE INSTALLED INTO ALL MAINTENANCE HOLES AND HAND HOLES.
8	JOINTS BETWEEN NON-IDENTICAL DUCT BANK COMPONENTS SHALL USE THE APPROPRIATE CONNECTORS SPECIFICALLY DESIGNED FOR THE PURPOSE.
9	FOR DRAINAGE REQUIREMENTS SLOPE DUCT BANKS A MINIMUM OF 4-INCHES PER 100'-FEET MINIMUM TOWARD EACH MAINTENANCE HOLE OR HAND HOLE.
10	CHANGES IN DIRECTION OF RUNS EXCEEDING A TOTAL OF 10 DEGREES, EITHER VERTICALLY OR HORIZONTALLY ARE TO BE ACCOMPLISHED WITH LONG SWEEPING BENDS HAVING A MINIMUM RADIUS OF 7.62M (25'). BENDS ARE NOT TO CHANGE THE INTERNAL DIAMETER OF THE DUCT. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS TOTALING 180 DEGREES BETWEEN PULL POINTS INCLUDING OFFSETS AND KICKS. BACK TO BACK 90 DEGREE BENDS ARE TO BE AVOIDED.
11	DUCT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE BETWEEN MAINTENANCE HOLES TO MINIMIZE SIDE WALL PRESSURE DURING CABLE INSTALLATION. DO NOT MAKE UNNECESSARY DIRECTION CHANGES.
12	THE TRANSITIONING OF DUCTS FROM THE LOWER MAINTENANCE HOLE WINDOW TO THE NOMINAL TRENCH DEPTH SHALL BE ACCOMPLISHED NO LESS THAN 30 FEET FROM THE MAINTENANCE HOLE TO REDUCE THE RADIUS OF THE BENDS.
13	COMMUNICATIONS DUCT BANK SHALL ENTER THE LOWEST AVAILABLE WINDOW OF THE MAINTENANCE HOLE.
14	PROVIDE A PULL STRING RATED AT LEAST 200LBS TENSILE STRENGTH AFTER DUCTS HAVE UNDERGONE CLEANING. PROVIDE A MECHANICALLY EXPANDABLE, REUSABLE RUBBER PLUG FOR EACH VACANT DUCT.
15	REINFORCED DUCT BANKS SHALL BE STEEL BAR REINFORCED PER THE DIMENSIONS SHOWN ON THE DUCT BANK DETAIL DRAWINGS.
16	REINFORCE ALL NEW DUCT BANKS WITHIN 5-FEET OF MAINTENANCE HOLES AND HAND HOLES.
17	REFER TO THE SPECIFICATIONS FOR MAINTENANCE HOLE AND HAND HOLE EQUIPMENT AND ACCESSORIES.
18	THE TERMS MANHOLE AND MAINTENANCE HOLE ARE INTERCHANGEABLE.



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NO.	DATE	DESCRIPTION
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TITLE	TECHNOLOGY NOTES



GENERAL SHEET NOTES

- A REFER TO SHEET T-003 FOR ALL GENERAL NOTES
- B ALL CABLING TO BE PLENUM RATED.
- C ALL NETWORK CABLE IS BLUE, RADIO CABLE IS GREEN, AND POTS CABLE IS WHITE.
- D ALL GREEN CABLE TO TERMINATE IN RADIO RACK.

KEYED NOTES

- 7 EXISTING PHASE 1 WORK.
- 19 DEMO ALL CABLING (TWO PATCH PANELS) ABOVE CEILING. REMOVE ALL CABLE FROM FACEPLATE TO PATCH PANEL.

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BUILDING RENOVATION
ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

ISSUE		
NO.	DATE	DESCRIPTION
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DATE	07/24/2026
JOB NO.	4301.01
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TITLE	
FIRST FLOOR COMPOSITE PATHWAY RCP	
SHEET NO.	

T1.1

A

B

C

D

E

F

DATA DROP COUNT				
DEVICE NAME	DATA DROP COUNT	DEVICE LOCATION LEVEL	DEVICE LOCATION ROOM NUMBER	DEVICE LOCATION ROOM NAME
WAP - Ceiling Mounted 1 Data	1			
1 DATA	1	FIRST FLOOR	105	CONFERENCE ROOM
1 DATA	1	FIRST FLOOR	107	OFFICE
1 DATA	1	FIRST FLOOR	108	OFFICE
1 DATA	1	FIRST FLOOR	108	OFFICE
WAP - Ceiling Mounted 1 Data	1	FIRST FLOOR	118-1	CORRIDOR-1
1 DATA	1	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
1 DATA	1	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
2 DATA	2	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
1 DATA	1	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
1 DATA	1	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
1 DATA	1	FIRST FLOOR	122	TITLE III WIRE TAP ROOM
WAP - Ceiling Mounted 1 Data	1	FIRST FLOOR	123	CORRIDOR
1 DATA	1	FIRST FLOOR	125	INTERVIEW ROOM
1F - SINGLE SENSOR INTERIOR CAMERA - SURFACE CEILING MOUNT	1	FIRST FLOOR	125	INTERVIEW ROOM
1F - SINGLE SENSOR INTERIOR CAMERA - SURFACE CEILING MOUNT	1	FIRST FLOOR	125	INTERVIEW ROOM
1 DATA	1	FIRST FLOOR	126	INTERVIEW ROOM
1F - SINGLE SENSOR INTERIOR CAMERA - SURFACE CEILING MOUNT	1	FIRST FLOOR	126	INTERVIEW ROOM
1F - SINGLE SENSOR INTERIOR CAMERA - SURFACE CEILING MOUNT	1	FIRST FLOOR	126	INTERVIEW ROOM
1F - SINGLE SENSOR INTERIOR CAMERA - SURFACE CEILING MOUNT	1	FIRST FLOOR	127	FOYER
1 DATA	1	FIRST FLOOR	129	K9 OFFICE
2 DATA	2	FIRST FLOOR	130-1	SECURE EVIDENCE STORAGE-1
WAP - Ceiling Mounted 1 Data	1	FIRST FLOOR	130-1	SECURE EVIDENCE STORAGE-1

Grand total: 23

7

TRAINING ROOM
110

IT ROOM
112

WAP
GARAGE AREA
124

SECURE
EVIDENCE GATE
131

OFFICE
108

OFFICE
107

CONFERENCE ROOM
105

SHOWER
119

CORRIDOR
118

ADA SHOWER
120

SECURE
EVIDENCE
STORAGE
130

WAP
CORRIDOR
123

INTERVIEW ROOM
125

WAP
CORRIDOR
123

INTERVIEW ROOM
126

MECHANICAL ROOM
128

FOYER
127

TITLE III WIRE TAP ROOM
122

K9 OFFICE
129

1 FIRST FLOOR DATA & AV PLAN
1/8" = 1'-0"



GENERAL SHEET NOTES

- A REFER TO SHEET T-003 FOR ALL GENERAL NOTES
- B ALL CABLING TO BE PLENUM RATED.
- C ALL NETWORK CABLE IS BLUE, RADIO CABLE IS GREEN, AND POTS CABLE IS WHITE.
- D ALL GREEN CABLE TO TERMINATE IN RADIO RACK.

KEYED NOTES

- 7 EXISTING PHASE 1 WORK.
- 15 ONE DATA CABLE, ONE RADIO CABLE.
- 16 SOUND MASKING SYSTEM CONTAINED TO EACH INTERROGATION ROOM. TO BE ACTIVATED WHEN RECORDING LIGHT IS TURNED ON.
- 19 DEMO ALL CABLING (TWO PATCH PANELS) ABOVE CEILING. REMOVE ALL CABLE FROM FACEPLATE TO PATCH PANEL.
- 20 ONE (1) CAT6A FOR THE IRECORD SYSTEM.

A

B

C

D

E

F

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BUILDING RENOVATION
ATF DAYTON FIELD OFFICE
RENOVATION PHASE 2

4470 HEMPSTEAD STATION DR. DAYTON, OH 45429

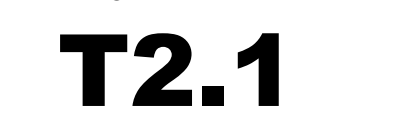
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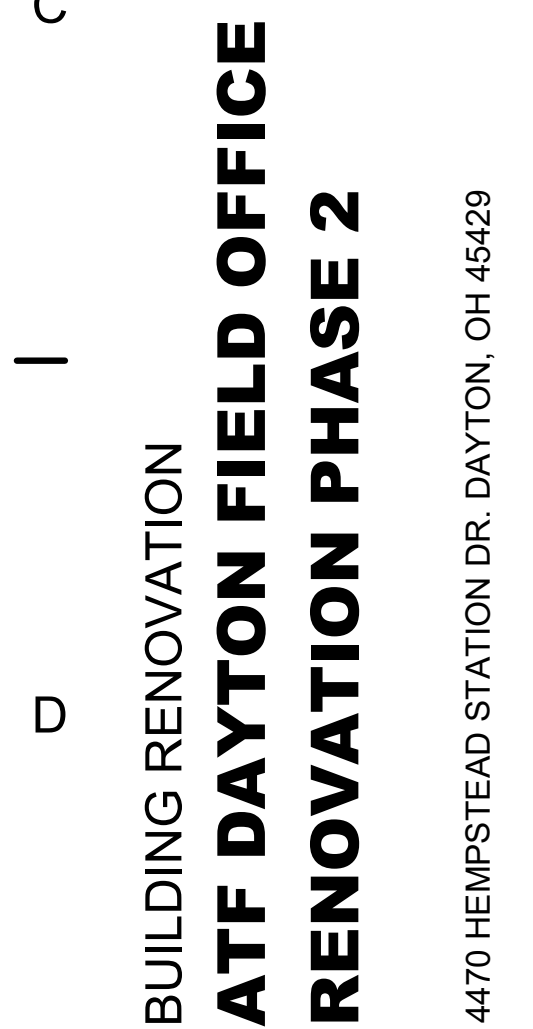
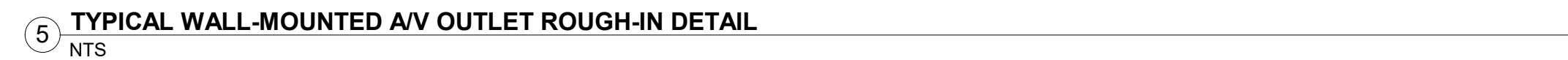
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TITLE
FIRST FLOOR DATA & AV PLAN

SHEET NO.

T1.2





SHEET NO. _____

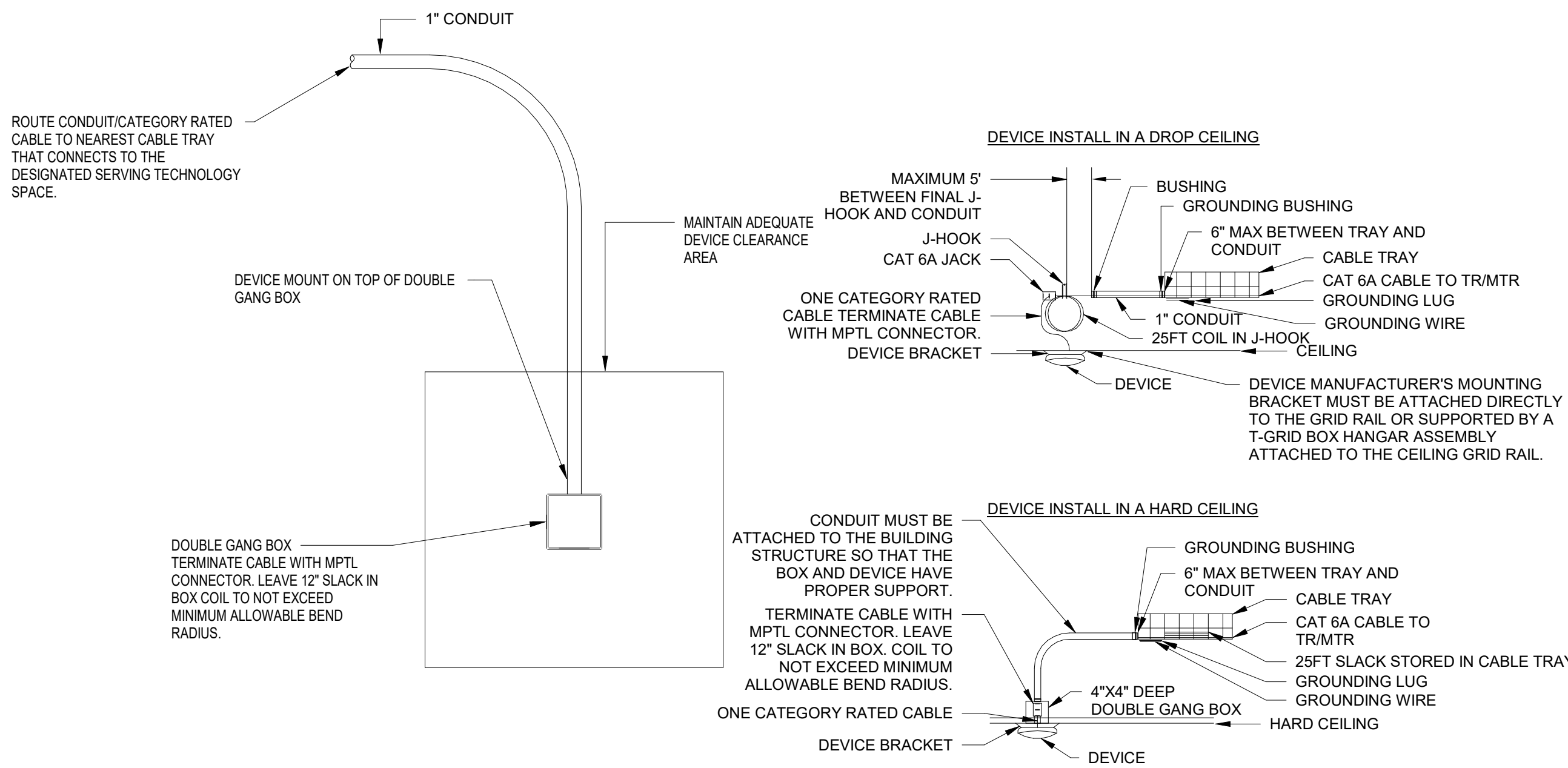
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ISSUE		
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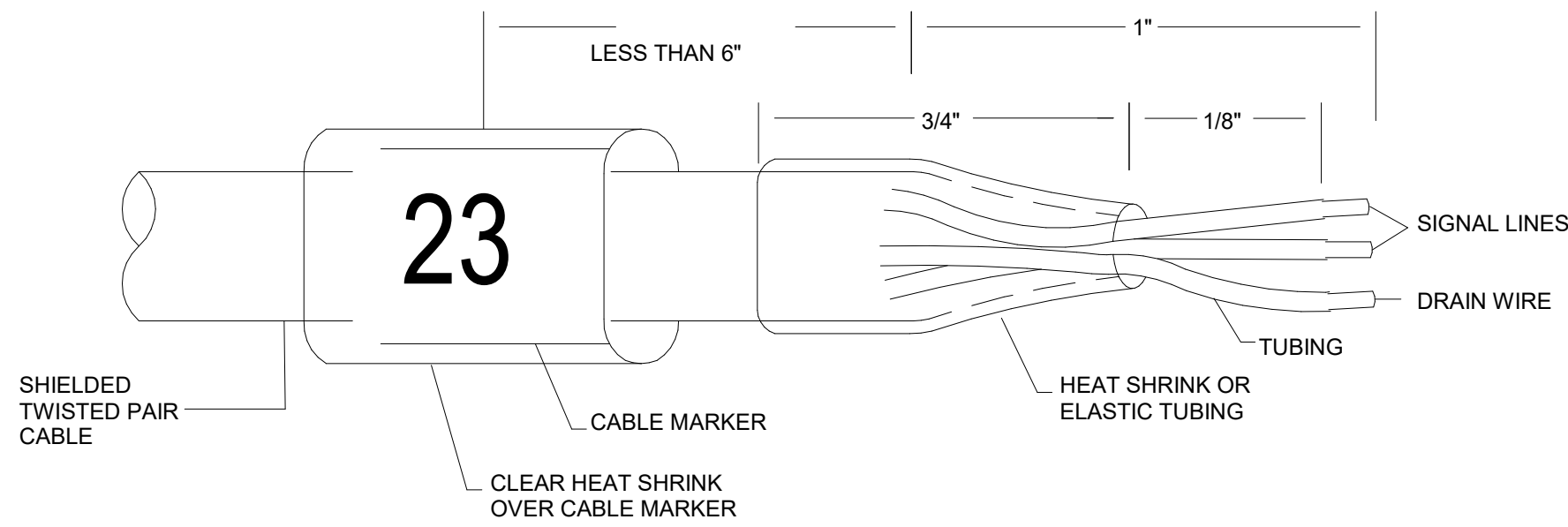
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TITLE	
DATA DETAILS	

SHEET NO.

T5.2

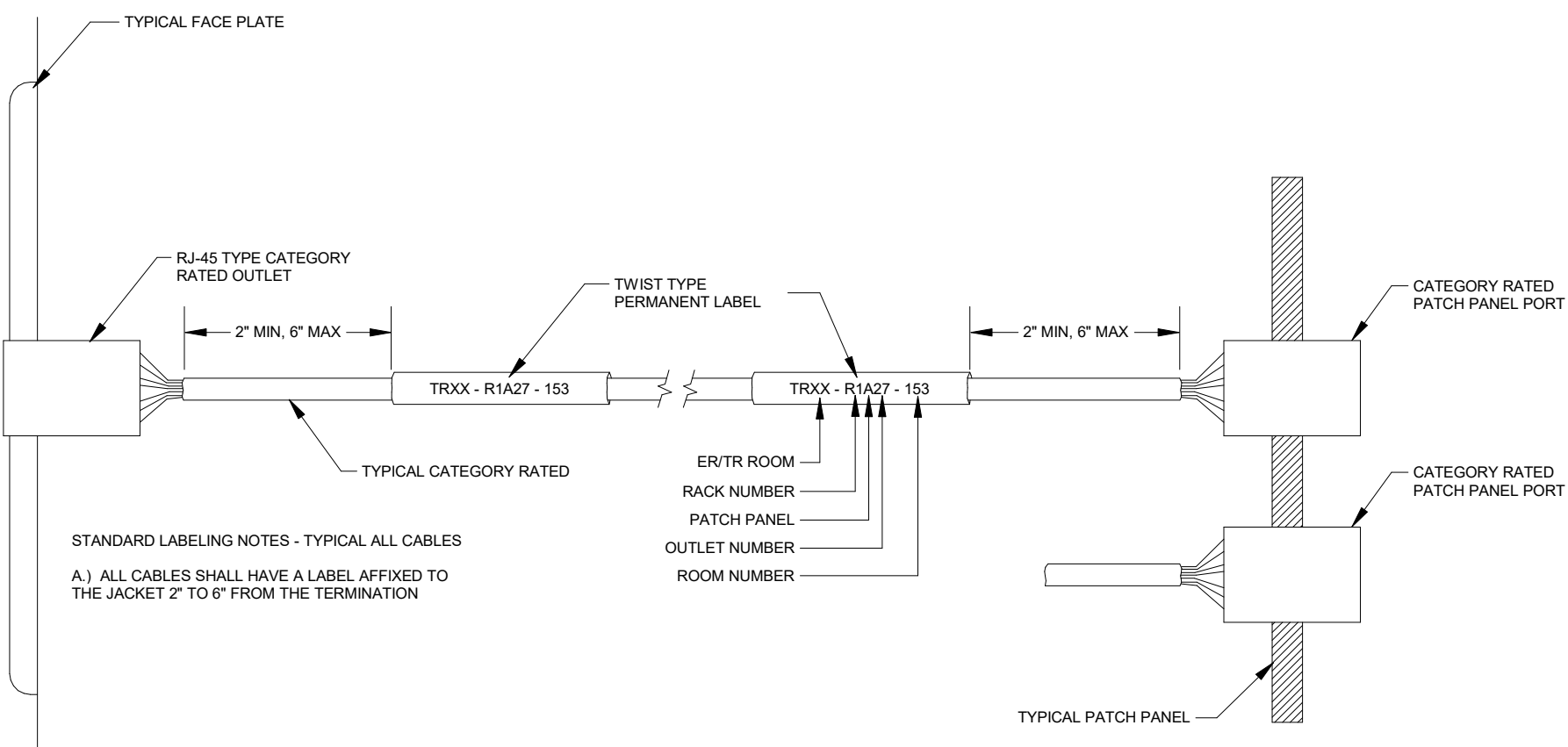


1 NETWORK DEVICE INSTALLATION DETAIL (E.G., CAMERA, WAP, VAPE DETECTOR, MISC SENSOR)
NTS

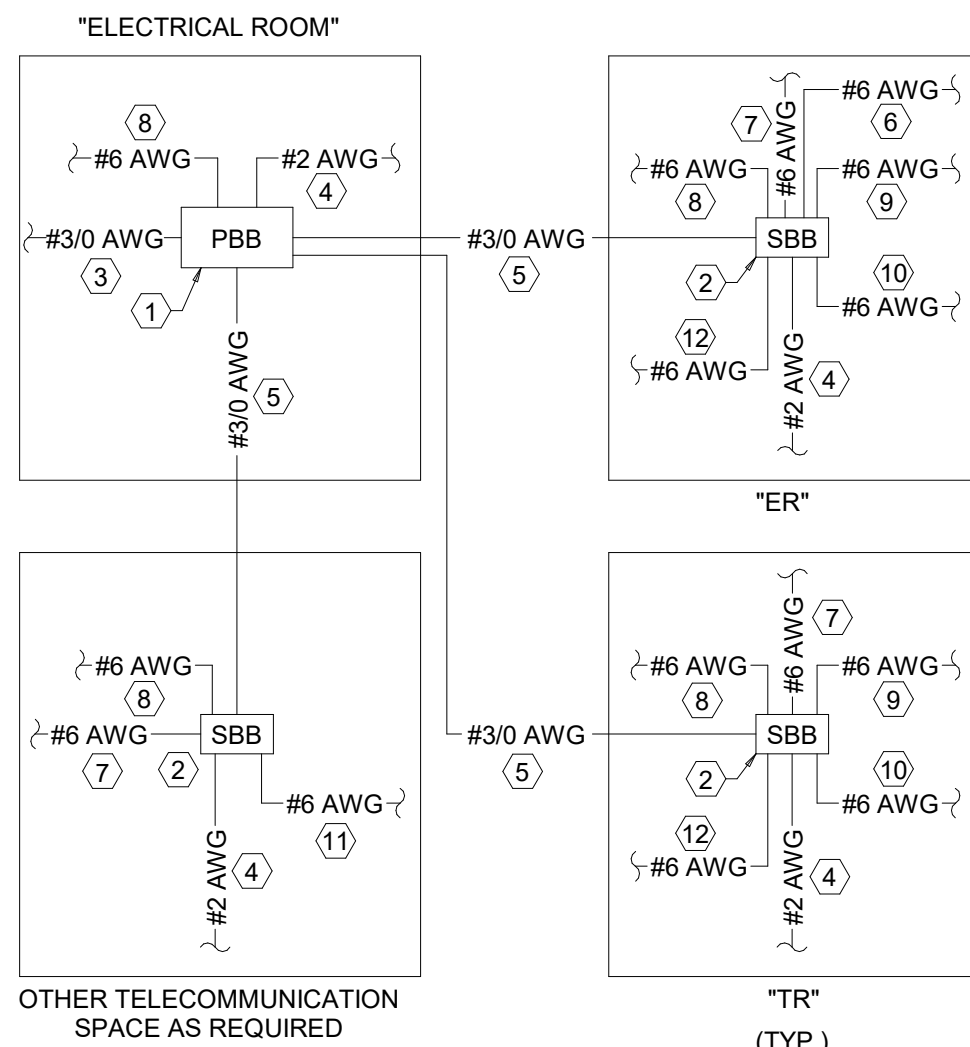


- NOTES:
1. ALL CABLES TO BE LABELED, WITH LABEL SECURED AND PROTECTED BY CLEAR HEAT SHRINK.
 2. ALL DRAIN WIRES TO BE SERVED WITH CLEAR HEAT SHRINK OR INSULATING TUBING. WRAP UNUSED DRAIN WIRES UNDER END DRESS BOOT.
 3. REQUIRED AT EACH CABLE TERMINATION IN RACKS, TERMINAL BOXES AND AT WALL PLATES.

2 STANDARD LABEL AND PREPARATION FOR SHIELDED CABLE TERMINATIONS
NTS

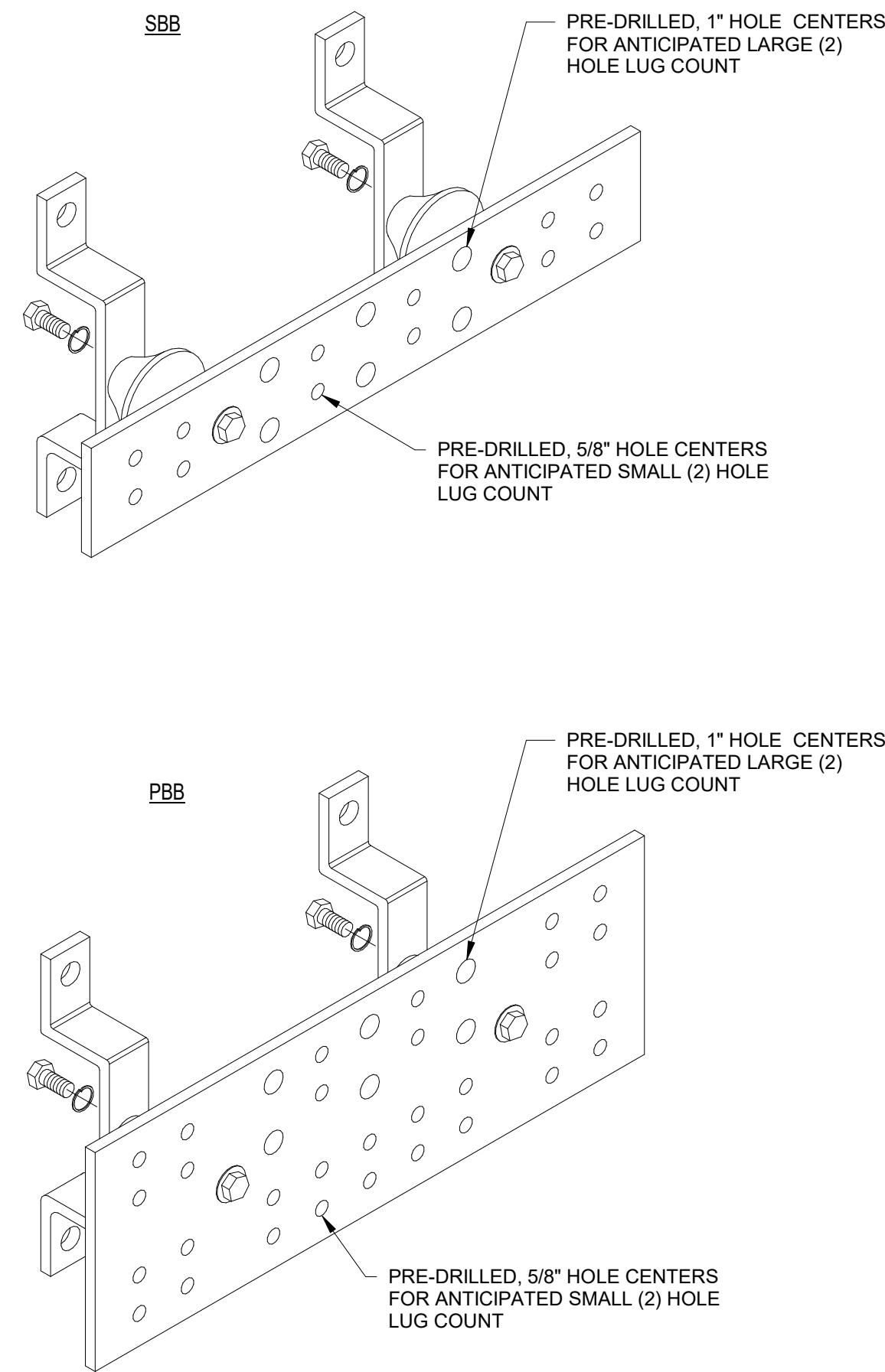


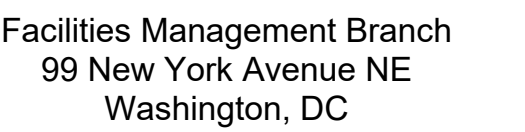
3 TYPICAL CABLE LABELING AT OUTLET AND PATCH PANEL
NTS



4 TELECOMMUNICATIONS BONDING & GROUNDING RISER DIAGRAM
NTS

- KEYED NOTES
1. PRIMARY BONDING BUSBAR (PBB) LOCATION TO BE COORDINATED WITH THE MAIN SWITCH GEAR SUPPLIER.
 2. SECONDARY BONDING BUSBAR (SBB). LOCATION TO BE COORDINATED WITH THE DIVISION 27 COMMUNICATIONS CABLING CONTRACTOR.
 3. #3/0 CONDUCTOR BONDED TO THE BUILDING'S MAIN ELECTRICAL SERVICE GROUND.
 4. #2 CONDUCTOR EXOTHERMICALLY WELDED TO THE BUILDING STEEL IF PRESENT.
 5. #3/0 TELECOMMUNICATIONS BONDING BACKBONE BARE CONDUCTOR.
 6. PROVIDE A #6 CONDUCTOR BONDED TO EACH TECHNOLOGY SERVICE PROVIDER CABLE ENTERING THE BUILDING.
 7. #6 CONDUCTOR BONDED TO THE CORRIDOR CABLE TRAY OUTSIDE OF THE TECHNOLOGY ROOM SHOWN. THIS BONDING CONDUCTOR IS NOT REQUIRED IF THE TELECOMMUNICATIONS BONDING BACKBONE WAS ROUTED TO THE ASSOCIATED TECHNOLOGY ROOM THROUGH THIS CABLE TRAY.
 8. #6 CONDUCTOR BONDED TO ANY METALLIC CONDUIT ENTERING THE ROOM CONTAINING TECHNOLOGY CABLING THAT DOES NOT CONTAIN A BONDING CONDUCTOR.
 9. #6 CONDUCTOR BONDED TO THE CABLE LADDER LOCATED IN THE TECHNOLOGY ROOM. IF THE CABLE LADDER INSTALLED DOES NOT PROVIDE A CONTINUOUS GROUND PATH, EACH CABLE LADDER SEGMENT SHALL BE BONDED TOGETHER WITH A #6 CONDUCTOR.
 10. PROVIDE A #6 CONDUCTOR BONDED TO ANY PIECE OF TECHNOLOGY EQUIPMENT INSTALLED WITHIN THE "ER" OR "TR" THAT HAS A GROUNDING LUG OR IS RECOMMENDED BY THE MANUFACTURER TO BE GROUNDED.
 11. PROVIDE A #6 CONDUCTOR BONDED TO THE AUDIO SYSTEMS CABINET.
 12. PROVIDE A #6 CONDUCTOR BONDED TO EACH OF THE TECHNOLOGY RACKS AND/OR CABINETS WITHIN THE ROOM.





**DAYTON
FIELD OFFICE
PHASE II**

[illegible]

DESIGN INTENT DRAWINGS

INTERIOR SIGNAGE

4770 Hempstead Station Dr
Dayton, OH 45429

PROJECT: -

DRAWN BY: LMA

REVIEWED BY: LMA

MB:

B:

FIELD OFFICE:

ION:

TELEPHONE/DATA:

DATE: 1/16/2025

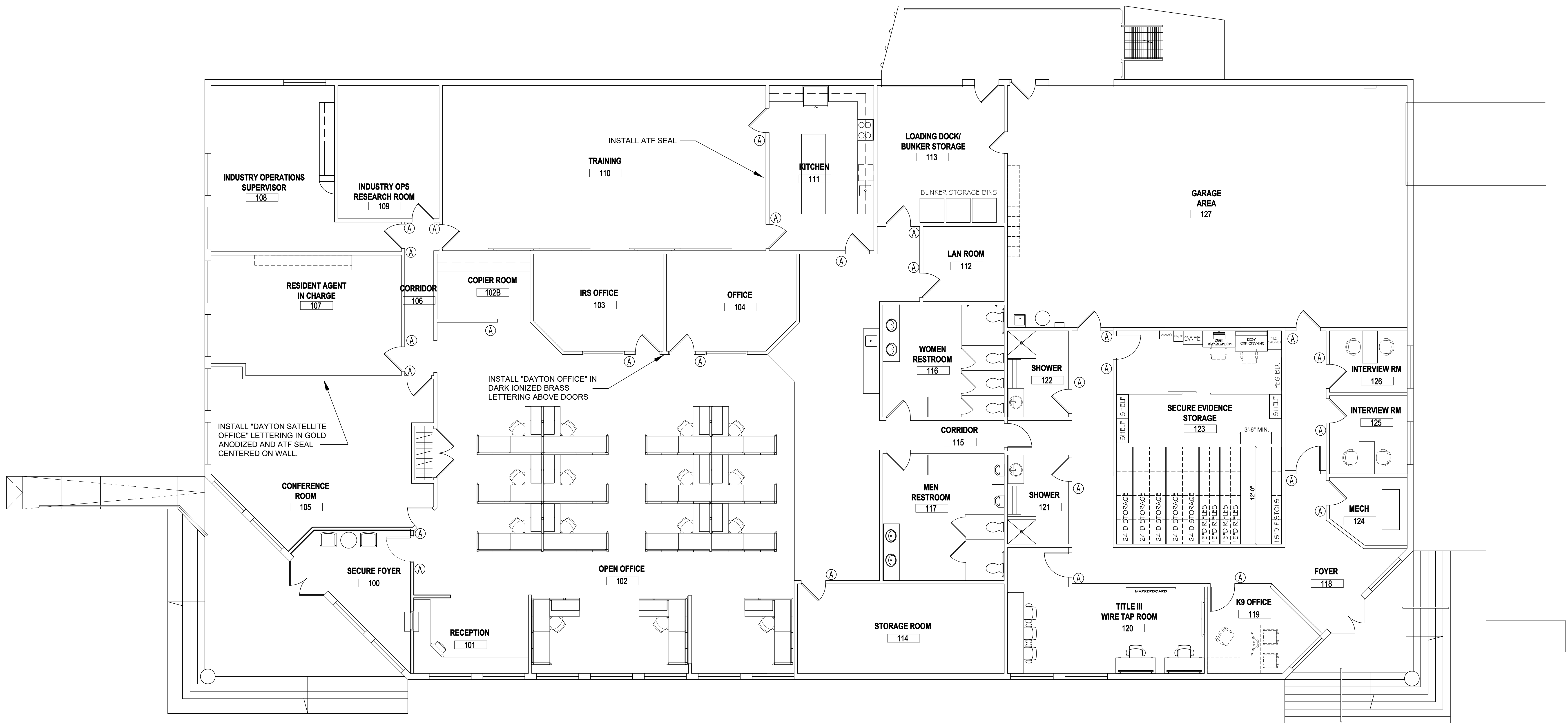
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SHEET:

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SHEET NO.:

100

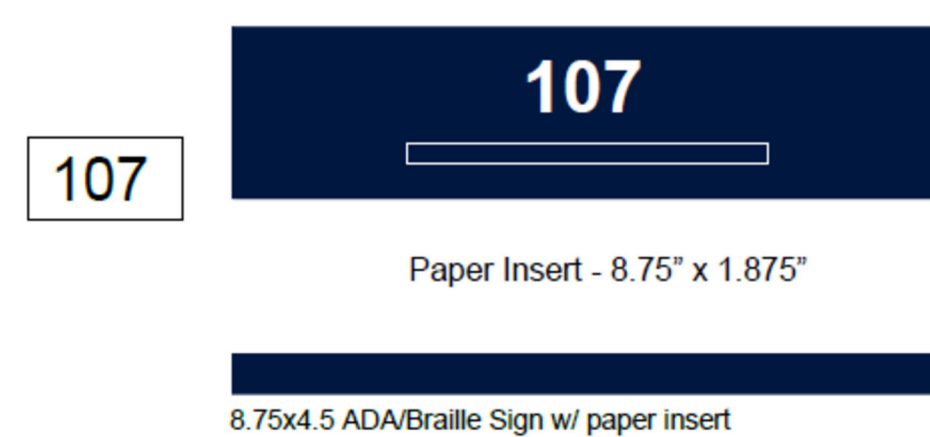


SIGNAGE FLOOR PLAN

SCALE: 3/16"=1'-0"

Ⓐ : ROOM SIGNAGE LOCATIONS

ADD SIGNAGE WITH PAPER INSERT
EXAMPLE BELOW:



* PICTURE REFERENCE ONLY

ATF BRANDING SIGNAGE GENERAL NOTES:

1. 1/2" RAISED LETTERS
2. DEVELOP THE ELEVATION DRAWINGS PER PROVIDED INFORMATION FOR APPROVAL BEFORE PRODUCTION.
3. RECOMMENDED ATF LETTER VENDOR: SIGNARAMA
<https://signarama.com/locations/>
4. RECOMMENDED ATF SEAL VENDOR: LE'S ENGRAVERS -
CONTACT PHILIP LE: PHILIP.LE@VERIZON.NET;
703-629-4203 (CELL)

