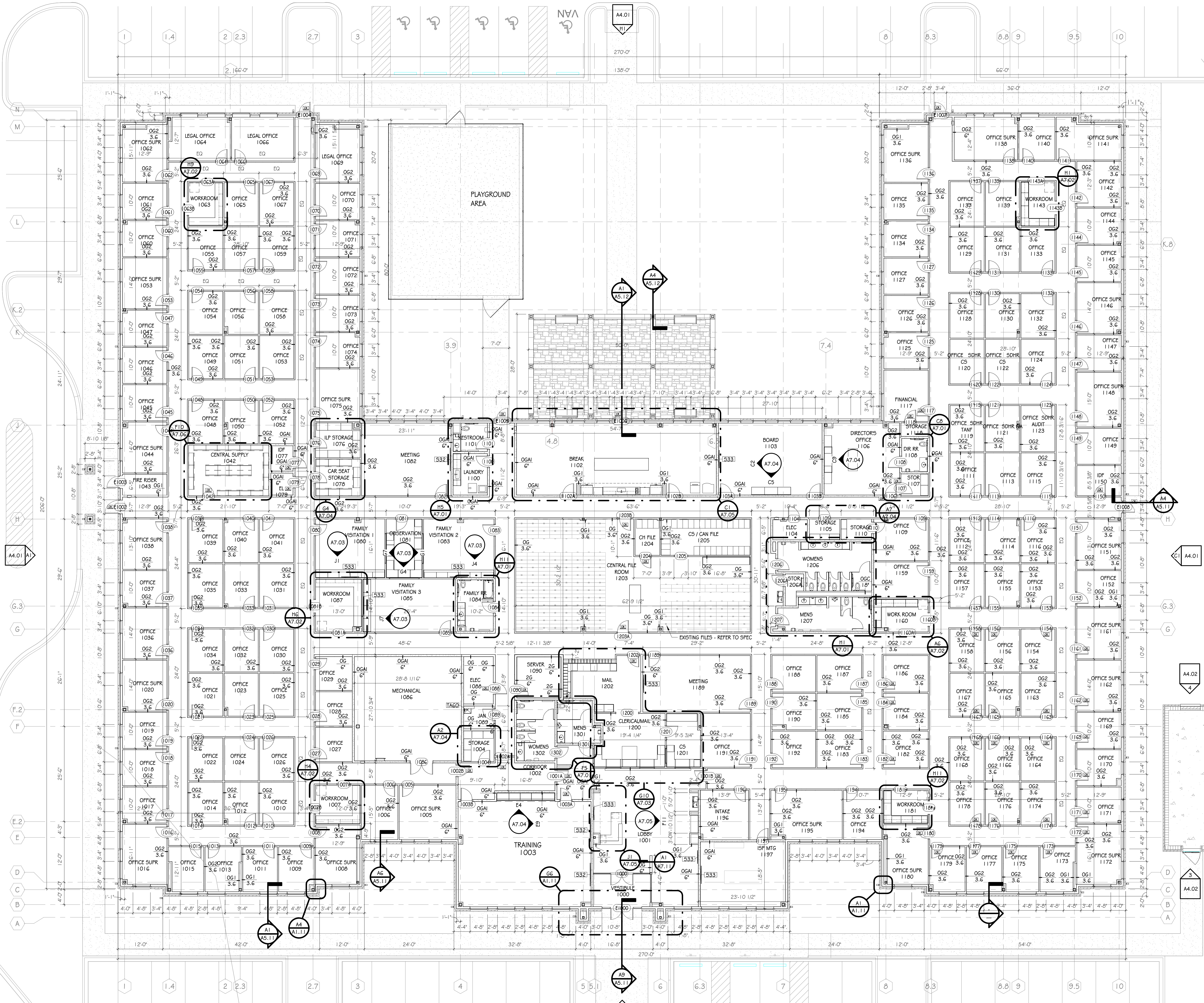


A1 FLOOR PLANS - LEVEL 1
SCALE: 3/32" = 1'-0"
TRUE NORTH



SPECIALTY EQUIPMENT SCHEDULE		
ID	DESCRIPTION	OF/CI / CFCI
51	RESIDENTIAL WASHER	CFCI
52	RESIDENTIAL DRYER	CFCI
53	COFFEE MAKER - BY OWNER	OF/CI
54	MICROWAVE	CFCI
58	REFRIGERATOR/FREEZER - SIDE BY SIDE	CFCI
59	ICE MAKER - COORDINATE PLUMBING & ELEC	CFCI
510	VENDING MACHINE - COORDINATE ELEC	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OF/CI
533	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OF/CI
WB-1	WINDOW COVERINGS - MANUAL 2" FAUX WOOD BLIND	CFCI

KEY NOTES - GENERAL CONSTRUCTION	
KEY	KEYNOTE
G1	[ENTER INSTRUCTIONS]

Starter Note
 ↓
 G1
 Copy/paste to plan if needed
 Delete if not needed

GENERAL NOTES

- FURNITURE SHOWN FOR REFERENCE ONLY. NOT IN CONTRACT.
- REFER TO FINISH LEGEND FOR PAINT COLORS CALLED OUT ON REFLECTED CEILING PLANS AND FINISH PLANS.
- UNLESS OTHERWISE NOTED, ALL FLOOR TILE SHALL BE CENTERED IN ROOM.
- UNLESS OTHERWISE NOTED, ALL CEILING GRID AND LIGHT FIXTURES SHALL BE CENTERED IN ROOM/OPENING.
- CONTRACTOR TO REVIEW WITH ARCHITECT, ON SITE, AREAS WITH MULTIPLE CEILING, WALL, AND FLOOR FINISHES BEFORE FINISH WORK BEGINS.
- REFER TO RCP LEGEND ON OVERALL REFLECTED CEILING PLANS FOR RCP ABBREVIATIONS AND FINISHES.
- WALL TILE AND BASE GROUT LINES SHALL ALIGN WITH FLOOR TILE.
- PROVIDE BLOCKING FOR GRAB BARS AND TOILET ACCESSORIES IN RESTROOMS.

TUSCALOOSA COUNTY DHR
PROJECT ADDRESS PENDING

FLOOR PLAN

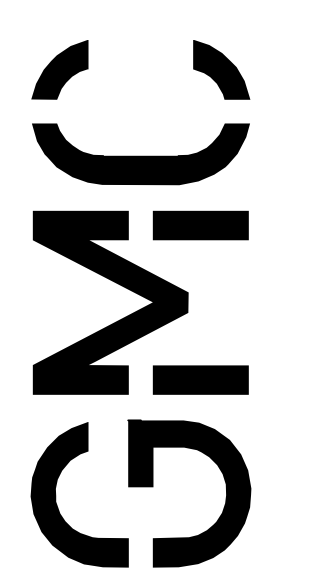
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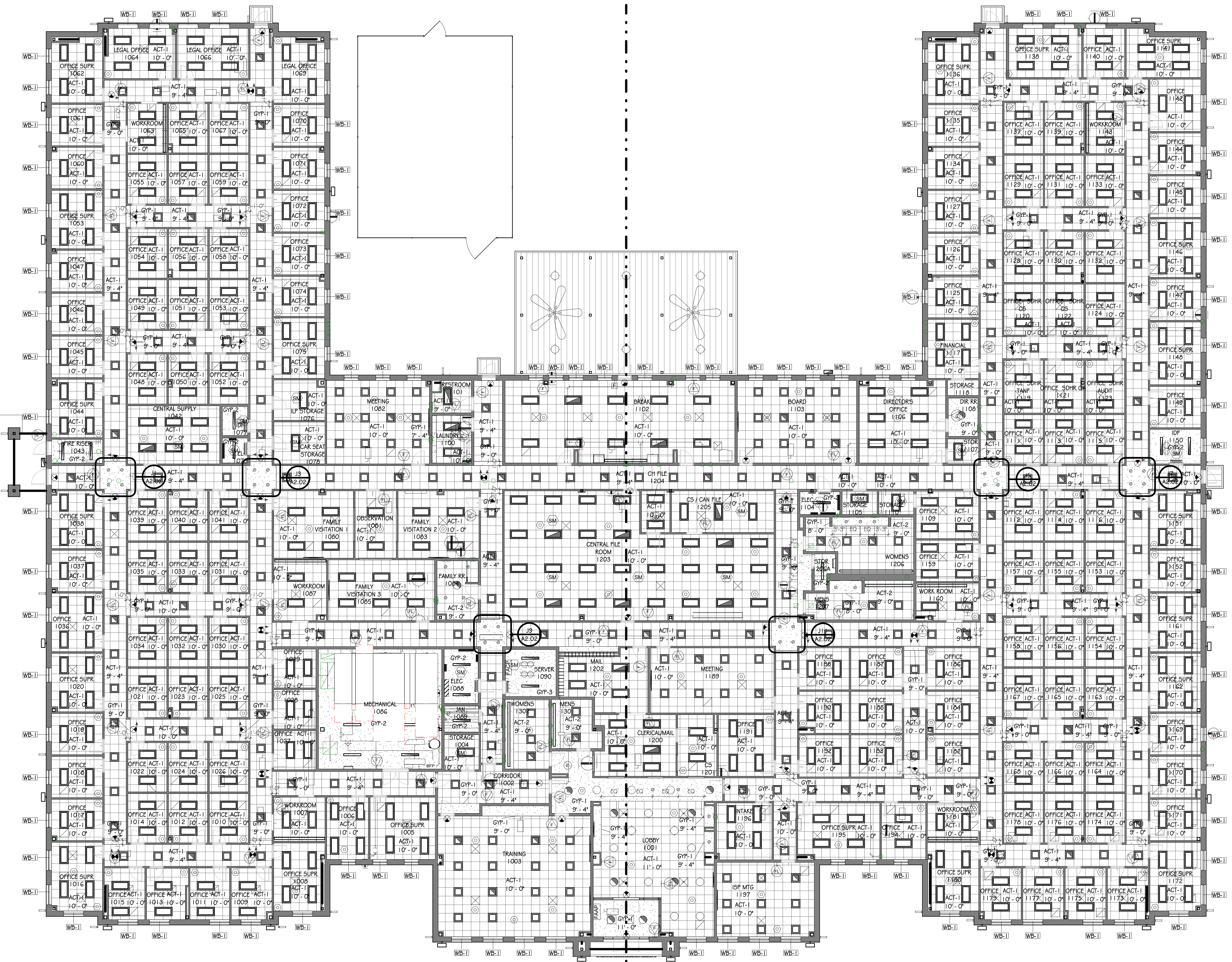
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SBC # [ENTER VALUE]

ISSUE DATE
BID SET 09/09/2024

DRAWN BY: Author
CHECKED BY:

2400 5th Avenue South, Suite 200
Birmingham, AL 35233
T 205.879.4462
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REFLECTED CEILING PLAN LEGEND

- CEILING FINISHES:**
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X2'
 - LAY-IN ACOUSTICAL CEILING SYSTEM - 2X4'
 - GYP BOARD - INTERIOR
 - EIFS SOFFIT - EXTERIOR
 - EXPOSED STRUCTURE
 - 2X2 LAY-IN METAL CEILING SYSTEM
 - 2X2 LAY-IN WOOD CEILING SYSTEM
 - RECESSED LIGHT POCKET
- MECHANICAL:**
- SUPPLY DIFFUSER
 - RETURN AIR GRILLE
 - EXHAUST FAN
- LIGHTING:**
- 2X2 LAY-IN FIXTURE
 - 2X4 LAY-IN FIXTURE
 - LINEAR SUSPENDED FIXTURE
 - LINEAR RECESSED FIXTURE
 - LINEAR WALL MT. FIXTURE
 - CIRCULAR SURF. MT. FIXTURE
 - CIRCULAR PENDANT FIXTURE
 - CIRCULAR RECESSED FIXTURE
 - CIRCULAR WALL MT. FIXTURE
 - EXIT LIGHT
 - NURSE CALL LIGHT

REFLECTED CEILING PLAN NOTES

- CEILING HEIGHTS SHALL BE AS NOTED ON REFLECTED CEILING PLANS.
- WHEREVER POSSIBLE NO CEILING TILE SHOULD BE LESS THAN 6" IN ANY DIRECTION.
- SEE ELECTRICAL FOR ALL LIGHT FIXTURE TYPES AND SIZES.
- SEE MECHANICAL FOR ALL DIFFUSER TYPES AND SIZES.
- SEE INTERIOR ELEVATIONS FOR WALL MOUNTED LIGHT FIXTURE HEIGHT AND LOCATIONS.
- COORDINATE LOCATIONS OF ALL LIGHTS, DIFFUSERS, AND DEVICES BETWEEN THIS RCP AND MECHANICAL, FIRE PROTECTION, AND ELECTRICAL. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING.
- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER FIXTURE OVER DOOR BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.
- ALL SPRINKLER HEADS IN ACOUSTIC CEILINGS SHALL BE CENTERED IN CEILING TILE.
- ALL BULKHEADS TO BE 4" BELOW ADJACENT ACT CEILING UNLESS NOTED OTHERWISE.

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG CEILINGS STYLE: 1717 SCHOOL ZONE FINE FIGURED - ANGLED REGULAR COLOR: WHITE SIZE: 24" X 24" X 3/4" SUSPENSION SYSTEM: 15/16" PRELUDE XL - COLOR: WHITE
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG CEILINGS STYLE: 1715 CLEAN ROOM FL - SQUARE LAY-IN COLOR: WHITE SIZE: 24" X 24" X 3/4" SUSPENSION SYSTEM: 15/16" PRELUDE - COLOR: WHITE
GYP-1	GYP BOARD CEILING	PAINTED GYP BOARD CEILING COLOR: PNT-3
GYP-2	GYP BOARD CEILING	PAINTED GYP BOARD CEILING AT UNDERSIDE OF TRUSS COLOR: PNT-3
GYP-3	FIRE RATED GYP BOARD CEILING	PAINTED GYP BOARD CEILING AT UNDERSIDE OF TRUSS 2 HOUR FIRE RATED COLOR: PNT-3

GMC

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SBC # [ENTER VALUE]

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REGISTERED ARCHITECT

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REFLECTED CEILING PLAN

ISSUE DATE: 09/09/2024
BID SET

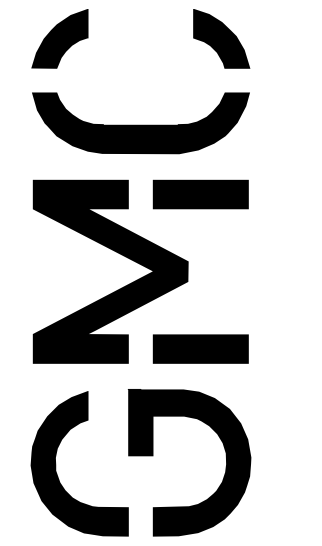
DRAWN BY: Author
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DOOR SCHEDULE

DOOR NUMBER	LOCATION	ROOM NAME	SIZE			DOOR		FRAME		HARDWARE		DETAILS				NUMBERED NOTES		
			WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	GLASS / LOUVER	FRAME TYPE	MATERIAL	GLASS TYPE	HOLD OPEN	ACCESS CONTROL	HEAD	JAMB		SILL	FIRE RATING
1000	LOBBY		6'-0"	7'-9"	1 3/4"	FG2	SF	SF	HM									
1001A	CORRIDOR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1001B	LOBBY		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1002A	CORRIDOR		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1002B	CORRIDORS		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1003A	LOBBY		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1003B	CORRIDOR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1004	STORAGE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1005	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1006	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1007A	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1007B	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1008	CORRIDORS		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1009	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1010	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1011	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1012	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1013	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1014	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1015	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1016	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1017	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1018	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1019	CORRIDORS		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1020	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1021	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1022	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1023	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1024	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1025	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1026	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1027	CORRIDORS		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1028	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1029	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1030	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1031	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1032	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1033	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1034	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1035	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1036	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1037	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1038	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1039	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1040	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1041	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1042	CENTRAL SUPPLY		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1043	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1045	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1046	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1047	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1048	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1049	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1050	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1051	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1052	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1053	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1053	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1054	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1055	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1056	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1057	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1058	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1059	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1060	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1061	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1062	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1063A	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1063B	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1064	LEGAL OFFICE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1065	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1066	LEGAL OFFICE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1067	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1069	LEGAL OFFICE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1070	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1071	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1072	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1073	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1074	OFFICE		3'-0"	7'-0"	1 3/4"	N	WD	G1	HM									
1075	OFFICE SUPR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1076	ILP STORAGE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1077	ID		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1078	CAR SEAT STORAGE		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1079	CORRIDORS		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM		CR	G4 / A6.02	D4 / A6.02					
1080	FAMILY VISITATION 1		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1081	OBSERVATION		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1081A	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1081B	WORKROOM		3'-6"	7'-0"	0"	-	-	-	F5	WD								
1082	MEETING		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1083	FAMILY VISITATION 2		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									
1084	FAMILY RR		3'-0"	7'-0"	1 3/4"	F	WD	F1	HM									

ROOM FINISH SCHEDULE							
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CABINET	COUNTERTOP	COMMENTS
1000	VESTIBULE	WOC-1	RB-1	FNT-1	-	-	
1001	LOBBY	HTF-2	HTB-1	FNT-1, WP-1, HTW-1	PL-1	SS-3	CHAIR RAIL ALL WALLS, CORNER GUARDS ALL EXPOSED GYP CORNERS
1002	CORRIDOR	CPT-1	RB-1	FNT-1	-	-	CORNER GUARDS ALL EXPOSED GYP CORNERS
1003	TRAINING	CPT-2	RB-1	FNT-4	PL-1	PL-3	CHAIR RAIL ALL WALLS
1004	STORAGE	LVT-2	RB-1	FNT-1	PL-1	-	
1005	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1006	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1007	WORKROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1008	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1009	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1010	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1011	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1012	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1013	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1014	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1015	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1016	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1017	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1018	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1019	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1020	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1021	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1022	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1023	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1024	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1025	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1026	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1027	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1028	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1029	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1030	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1031	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1032	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1033	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1034	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1035	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1036	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1037	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1038	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1039	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1040	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1041	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1042	CENTRAL SUPPLY	LVT-2	RB-1	FNT-1	PL-1	-	
1043	FIRE RISER	SC-1	RB-1	FNT-1	-	-	
1044	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1045	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1046	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1047	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1048	OFFICE	CPT-1	RB-1	FNT-1	-	-	
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1052	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1053	OFFICE	CPT-1	RB-1	FNT-1	-	-	
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1058	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1059	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1060	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1061	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1062	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1063	WORKROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1064	LEGAL OFFICE	CPT-1	RB-1	FNT-1	-	-	
1065	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1066	LEGAL OFFICE	CPT-1	RB-1	FNT-1	-	-	
1067	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1069	LEGAL OFFICE	CPT-1	RB-1	FNT-1	-	-	
1070	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1071	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1072	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1073	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1074	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1075	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1076	ILP STORAGE	LVT-2	RB-1	FNT-1	PL-1	-	
1077	IDF	SC-1	RB-1	FNT-1	-	-	
1078	CAR SEAT STORAGE	LVT-2	RB-1	FNT-1	PL-1	-	
1079	EL	SC-1	RB-1	FNT-1	-	-	
1080	FAMILY VISITATION 1	LVT-1	RB-1	FNT-1	PL-1	PL-3	
1081	OBSERVATION	CPT-1	RB-1	FNT-1	PL-1	PL-3	
1082	MEETING	CPT-2	RB-1	FNT-4	-	-	CHAIR RAIL ALL WALLS
1083	FAMILY VISITATION 2	LVT-1	RB-1	FNT-1	PL-1	PL-3	
1084	FAMILY RR	HTF-1	SCHLUTER COVE	HTW-1, HTW-4 ACCENT	PL-2	SS-2	TILE # ACCENT STRIP ALL WALLS
1085	FAMILY VISITATION 3	LVT-1	RB-1	FNT-1	PL-1	PL-3	
1086	MECHANICAL	SC-1	RB-1	FNT-1	-	-	
1087	WORKROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1088	ELEC	SC-1	RB-1	FNT-1	-	-	
1089	JAN	SC-1	RB-1	FNT-1	-	-	
1090	SERVER	SC-1	RB-1	FNT-1	-	-	
1100	LAUNDRY	HTF-1	HTB-1	FNT-1	PL-2	SS-2	
1101	RESTROOM	HTF-1	SCHLUTER COVE	HTW-1, HTW-4 ACCENT	PL-2	SS-2	TILE # ACCENT STRIP ALL WALLS
1102	BREAK	HTF-2	HTB-1	FNT-1, HTW-2 # HTW-3 BACKSPASH	PL-1	SS-1	
1103	BOARD	CPT-2	RB-1	FNT-4	PL-1	PL-3	CHAIR RAIL # CROWN MOULDING ALL WALLS
1104	ELEC	SC-1	RB-1	FNT-1	-	-	
1105	STORAGE	LVT-2	RB-1	FNT-1	PL-1	-	
1106	DIRECTOR'S OFFICE	CPT-1	RB-1	FNT-1	PL-1	PL-3	CHAIR RAIL # CROWN MOULDING ALL WALLS
1107	STOR	CPT-1	RB-1	FNT-1	PL-1	-	

ROOM FINISH SCHEDULE							
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CABINET	COUNTERTOP	COMMENTS
1108	DIR RR	HTF-1	SCHLUTER COVE	HTW-1, HTW-4 ACCENT	PL-2	SS-2	TILE # ACCENT STRIP ALL WALLS
1109	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1110	STORAGE	LVT-2	RB-1	FNT-1	PL-1	-	
1111	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1112	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1113	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1114	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1115	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1116	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1117	FINANCIAL	CPT-1	RB-1	FNT-1	-	-	
1118	STORAGE	CPT-1	RB-1	FNT-1	-	-	
1119	OFFICE SDHR TANF	CPT-1	RB-1	FNT-1	-	-	
1120	OFFICE SDHR CS	CPT-1	RB-1	FNT-1	-	-	
1121	OFFICE SDHR QA	CPT-1	RB-1	FNT-1	-	-	
1122	OFFICE SDHR CS	CPT-1	RB-1	FNT-1	-	-	
1123	OFFICE SDHR AUDIT	CPT-1	RB-1	FNT-1	-	-	
1124	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1125	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1126	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1127	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1128	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1129	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1130	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1131	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1132	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1133	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1134	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1135	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1136	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1137	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1138	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1139	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1140	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1141	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1142	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1143	WORKROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1144	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1145	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1146	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1147	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1148	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1149	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1150	IDF	LVT-2	RB-1	FNT-1	-	-	
1151	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1152	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1153	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1154	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1155	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1156	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1157	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1158	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1159	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1160	WORK ROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1161	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1162	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1163	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1164	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1165	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1166	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1167	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1168	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1169	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1170	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1171	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1172	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1173	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1174	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1175	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1176	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1177	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1178	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1179	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1180	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1181	WORKROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1182	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1183	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1184	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1185	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1186	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1187	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1188	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1189	MEETING	CPT-2	RB-1	FNT-4	-	-	CHAIR RAIL ALL WALLS
1190	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1191	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1192	OFFICE	CPT-1	RB-1	FNT-1	-	-	
1194	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1195	OFFICE SUPR	CPT-1	RB-1	FNT-1	-	-	
1196	INTAKE	CPT-1	RB-1	FNT-1	-	-	
1197	ISP MTG	CPT-2	RB-1	FNT-4	-	-	CHAIR RAIL ALL WALLS
1200	CLERICAL/MAIL	LVT-2	RB-1	FNT-1	PL-1	SS-3	
1201	CS	LVT-2	RB-1	FNT-1	PL-1	SS-3	
1202	MAIL	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1203	CENTRAL FILE ROOM	LVT-2	RB-1	FNT-1	PL-1	PL-3	
1204	CH FILE	LVT-2	RB-1	FNT-1	-	-	
1205	CS / CAN FILE	LVT-2	RB-1	FNT-1	-	-	
1206	WOMENS	HTF-1	SCHLUTER COVE	HTW-1, HTW-4 ACCENT	PL-2	SS-2	TILE # ACCENT STRIP ALL WALLS
1206A	STOR	LVT-2	RB-1	FNT-1	-	-	
1207	MENS	HTF-1	SCHLUTER COVE	HTW-1, HTW-4 ACCENT	PL-2	SS-2	TILE # ACCENT STRIP ALL WALLS
1301	MENS	HTF-1	SCHLUTER COVE	HTW-1, HTW			



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GENERAL NOTES

TUSCALOOSA COUNTY DHR
 Tuscaloosa, Alabama

GMC # ABHM220021



S1.01
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1. GENERAL NOTES:
 - 1.1. CODES AND SPECIFICATIONS:
 - A. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2021 EDITION.
 - B. ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - C. CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
 - D. STRUCTURAL STEEL: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC 360-16, ALLOWABLE STRESS DESIGN (ASD)
 - E. STEEL DECK: STEEL DECK INSTITUTE DESIGN STANDARDS FOR NON-COMPOSITE STEEL FLOOR DECK, STEEL ROOF DECK, COMPOSITE STEEL FLOOR DECK-SLABS, AND QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK ANS/SDI-17.
 - F. MASONRY:
 1. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402-16.
 2. SPECIFICATIONS FOR MASONRY STRUCTURES.
 - G. COLD-FORMED METAL FRAMING: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE AISI S100-16.
 - 1.2. THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT FOR THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID, OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. THE MORE STRINGENT REQUIREMENT SHALL APPLY WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS, UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER.
 - 1.3. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.
 - 1.4. DO NOT SCALE THESE DRAWINGS.
 - 1.5. ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
 - 1.6. CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. THE STRUCTURAL ENGINEER AND ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
 - 1.7. FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE DRAWINGS OF OTHER CONSULTANTS FOR SUCH INFORMATION.
 - 1.8. ALL ARCHITECTURAL AND UTILITY HALFTONE BACKGROUNDS ON PLANS, SECTIONS, AND ELEVATIONS ARE FOR REFERENCE ONLY AND ARE NOT UNDER THE PROFESSIONAL ENGINEERING SEAL RELATED TO THE STRUCTURAL ELEMENTS INDICATED IN THESE DRAWINGS. REFERENCE ARCHITECTURAL AND UTILITY DRAWINGS FOR NON-STRUCTURAL ELEMENTS INDICATED.
2. SPECIAL INSPECTIONS: (BY TESTING AGENCY)
 - 2.1. SPECIAL INSPECTOR (SI) SHALL BE RETAINED AND PAID BY THE OWNER.
 - 2.2. THE SPECIAL INSPECTOR SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED AND ACCEPTABLE TO THE ARCHITECT.
 - 2.3. THE DUTIES OF THE SPECIAL INSPECTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO, VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.
 - 2.4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SPECIAL INSPECTOR'S REVIEW AND APPROVAL.
 - 2.5. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTING. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CODE OFFICIAL AND THE DESIGN PROFESSIONAL OF RECORD. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. INTERIM REPORTS SHALL BE SUBMITTED PERIODICALLY WITH MINIMUM FREQUENCY OF TWO WEEKS.
 - 2.6. SPECIAL INSPECTIONS ARE REQUIRED FOR, BUT NOT LIMITED TO, THE ACTIVITIES AS INDICATED ON SHEET S1.02 PER THE 2021 INTERNATIONAL BUILDING CODE.
 - 2.7. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN THE CONTRACTOR HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE CONTRACTOR'S EXPENSE. PREMATURE NOTIFICATION FOR INSPECTIONS WILL RESULT IN AN ADDITIONAL INSPECTION WITH THE EXPENSES AND FEES PAID BY THE CONTRACTOR.
3. CONSTRUCTION AND SAFETY:
 - 3.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS TO ALL WORK, PERSONS, AND PROPERTY ON AND/OR ADJACENT TO THE PROJECT AND SHALL PROTECT AGAINST ANY DAMAGE, INJURY, OR LOSS.
 - 3.2. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
 - 3.3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE DESIGN LOAD OF THE STRUCTURE AT ANY TIME.
 - 3.4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. SUBMITTALS:
 - 4.1. ALL SHOP DRAWINGS MUST BE REVIEWED FOR "APPROVAL" AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
 - 4.2. SUBMIT EACH SET OF SHOP DRAWINGS DIGITALLY. THE REVIEWED PDF FILE WILL BE RETURNED TO THE CONTRACTOR.
 - 4.3. THE GENERAL CONTRACTOR SHALL SUBMIT, FOR ENGINEER REVIEW, SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (H) SHALL BE SUBMITTED FOR ENGINEER'S RECORD ONLY.
 - A. STRUCTURAL STEEL
 - B. REINFORCING STEEL
 - C. STEEL DECK
 - D. CONCRETE MIX DESIGNS
 - E. COLD-FORMED METAL FRAMING (F#)
 - F. SHOP FABRICATED COLD-FORMED METAL TRUSSES (T)
 - 4.4. DESIGN CALCULATIONS: THE GENERAL CONTRACTOR SHALL SUBMIT, FOR ENGINEER'S REVIEW TWO SETS OF DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED, FOR THE FOLLOWING ITEMS:
 - A. STRUCTURAL STEEL CONNECTIONS
 - B. COLD-FORMED METAL FRAMING
 - C. SHOP FABRICATED COLD-FORMED METAL TRUSSES
5. DESIGN LOADS:
 - 5.1. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
 - 5.2. LIVE LOADS: LIVE LOAD REDUCTIONS HAVE BEEN APPLIED TO THE STRUCTURAL MEMBERS IN ACCORDANCE WITH THE BUILDING CODE.

ROOF	20
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 - 5.3. SNOW LOAD:

A. GROUND SNOW LOAD (Pg)	5 PSF
B. IMPORTANCE FACTOR (I)	1.0
C. EXPOSURE FACTOR (Ce)	1.0
D. THERMAL FACTOR (Ct)	1.0
 - 5.4. WIND LOADS:

A. BASIC WIND SPEED (3-SECOND GUST)	108 MPH
B. WIND IMPORTANCE FACTOR (Iw)	1.0
C. WIND EXPOSURE	C
D. INTERNAL PRESSURE COEFFICIENT	+/- 0.18
 - 5.5. SEISMIC LOADS:

AND CLADDING	SEE TABLE ON S1.05
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- B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:

Ss	0.296
S1	0.103
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS:	
Sds	0.308
Sd1	0.164
 - C. SEISMIC DESIGN CATEGORY: C
 - D. DESIGN BASE SHEAR: 34 KIPS
 - E. SEISMIC RESPONSE COEFFICIENT (Cs): 0.088
 - F. RESPONSE MODIFICATION FACTOR (R): 3
 - G. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
6. FOUNDATION NOTES:
 - 6.1. GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TIL, INC., TITLED "GEOTECHNICAL REPORT, DEPARTMENT OF HUMAN RESOURCE BUILDING, TUSCALOOSA, ALABAMA, TIL PROJECT NO. 00022010028400". THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS WITHIN THE RECOMMENDATIONS SECTION.
 - 6.2. MAXIMUM BEARING PRESSURES (PSF):

TYPICAL	2500
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 - 6.3. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL BOTTOM ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
 - 6.4. LOW CONSISTENCY SOILS ARE PRESENT AT THE PROJECT SITE AND IS NOTED ACCORDINGLY IN THE GEOTECHNICAL REPORT. CONTRACTOR SHOULD EXPECT UNDERCUTTING OF LOW CONSISTENCY SOILS. THE FINAL EXTENT OF UNDERCUTTING SHOULD BE DETERMINED BY THE GEOTECHNICAL ENGINEER. COMPACTED FILL WILL BE REQUIRED AT UNDERCUT LOCATIONS IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 - 6.5. ALL AREAS TO HAVE SLABS ON GRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PREPARATION FOR CONCRETE PLACEMENT.
 - 6.6. COMPACTED FILL WITHIN THE BUILDING AREA SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
 - 6.7. BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL. SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE WALL (TOP OF FOOTING) TO WITHIN 1'-0" OF FINISHED GRADE.
 - 6.8. EARTH SUPPORTED SLAB:

A. SUBGRADE MODULUS	100 PCI
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 7. CONCRETE NOTES:
 - 7.1. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:

4000 PSI NORMAL WT. - FOOTINGS, WALLS, SLAB ON GRADE.	
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 - 7.2. PEDESTAL AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
 - 7.3. EARTH SUPPORTED SLABS:

TYPICAL: 4" THICK, REINFORCED WITH 6x6 W2.9/W2.9 WWR (SHEETS) AT TOP THIRD OF SLAB DEPTH UNLESS NOTED.	
FILE ROOM AREA SLAB: 10" THICK, REINFORCED WITH #4@18" EACH WAY, TOP AND BOTTOM. SEE PLAN AND SECTIONS.	
MECHANICAL ENCLOSURE AREA: 12" THICK, REINFORCED WITH #5@16" EACH WAY, TOP AND BOTTOM.	
 - 7.4. CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
 8. CONCRETE REINFORCING STEEL NOTES:
 - 8.1. REINFORCING BARS: ASTM A615 GRADE 60.
 - 8.2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.
 - 8.3. REINFORCING STEEL SHOWN IN SECTIONS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
 - 8.4. REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS, WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
 - 8.5. DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
 - 8.6. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
 - 8.7. ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
 - 8.8. PROVIDE CORNER BARS WITH CLASS "B" LAP SPLICE AT ALL FOUNDATION INTERSECTIONS AND CORNERS.
 - 8.9. CONCRETE COVERAGE OF REINFORCEMENT (UNO ON DRAWINGS):

FOOTINGS	3" BOTTOM & SIDES, 2" TOP
SLABS NOT EXPOSED TO WEATHER	3/4" BOTTOM & TOP
SLABS EXPOSED TO WEATHER	#5 OR LESS 1 1/2" #6 OR LARGER 2"
 - 8.10. FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 9. STRUCTURAL STEEL NOTES:
 - 9.1. STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE SHAPES; ASTM A36 ELSEWHERE.
 - 9.2. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B.
 - 9.3. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16".
 - 9.4. HEADED ANCHOR RODS: ASTM F1554 GRADE 55 AND HEAVY HEX NUT, UNLESS OTHERWISE INDICATED.
 - 9.5. BOLTED CONNECTIONS: ASTM F3125 GRADE A325-N AND SLIP-CRITICAL TYPE A325-SC IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS. BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 3/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER. USE SLIP-CRITICAL CONNECTIONS FOR WIND FRAMES, MOMENT CONNECTIONS, SKYLIGHT FRAMING AND OTHER CONNECTIONS NOTED AS SLIP-CRITICAL. USE SNIUG TIGHT BEARING CONNECTIONS FOR ALL OTHER BOLTED CONNECTIONS.
 - 9.6. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.
 - 9.7. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, PROVIDED BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
 - 9.8. DESIGN CALCULATIONS FOR THE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR AND DESIGNED BY A PROFESSIONAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. THE CONNECTION DESIGNER SHALL REVIEW THE CONNECTIONS INDICATED IN THE SHOP DRAWINGS TO ENSURE THE SHOP DRAWINGS CONFORM WITH THE CONNECTION DESIGN CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
 - 9.9. ALL NON-COMPOSITE BEAM CONNECTIONS SHALL BE "SIMPLE SHEAR CONNECTIONS" UNLESS NOTED. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT A REACTION EQUAL TO ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE MAXIMUM TOTAL UNIFORM LOAD TABLE MULTIPLIED BY A FACTOR OF 1.2 FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.
 - 9.10. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN, WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.
 - 9.11. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
 - 9.12. WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES ON EACH SIDE OF THE BEAM WEB, OF THICKNESS EQUAL TO THE BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF TUBES AND PIPE COLUMNS.
 - 9.13. ALL COLUMN ANCHOR ROD HOLES TO BE OVERSIZED AS REQUIRED, THE MAXIMUM HOLE SIZE FOR ANCHOR RODS IN BASE PLATES SHALL CONFORM TO THE REQUIREMENTS LISTED IN TABLE 14-2 OF THE AISC STEEL CONSTRUCTION MANUAL. PLATE WASHERS ARE REQUIRED WITH ALL OVERSIZED HOLES AND SHALL MEET THE MINIMUM DIMENSIONS LISTED IN TABLE 14-2.

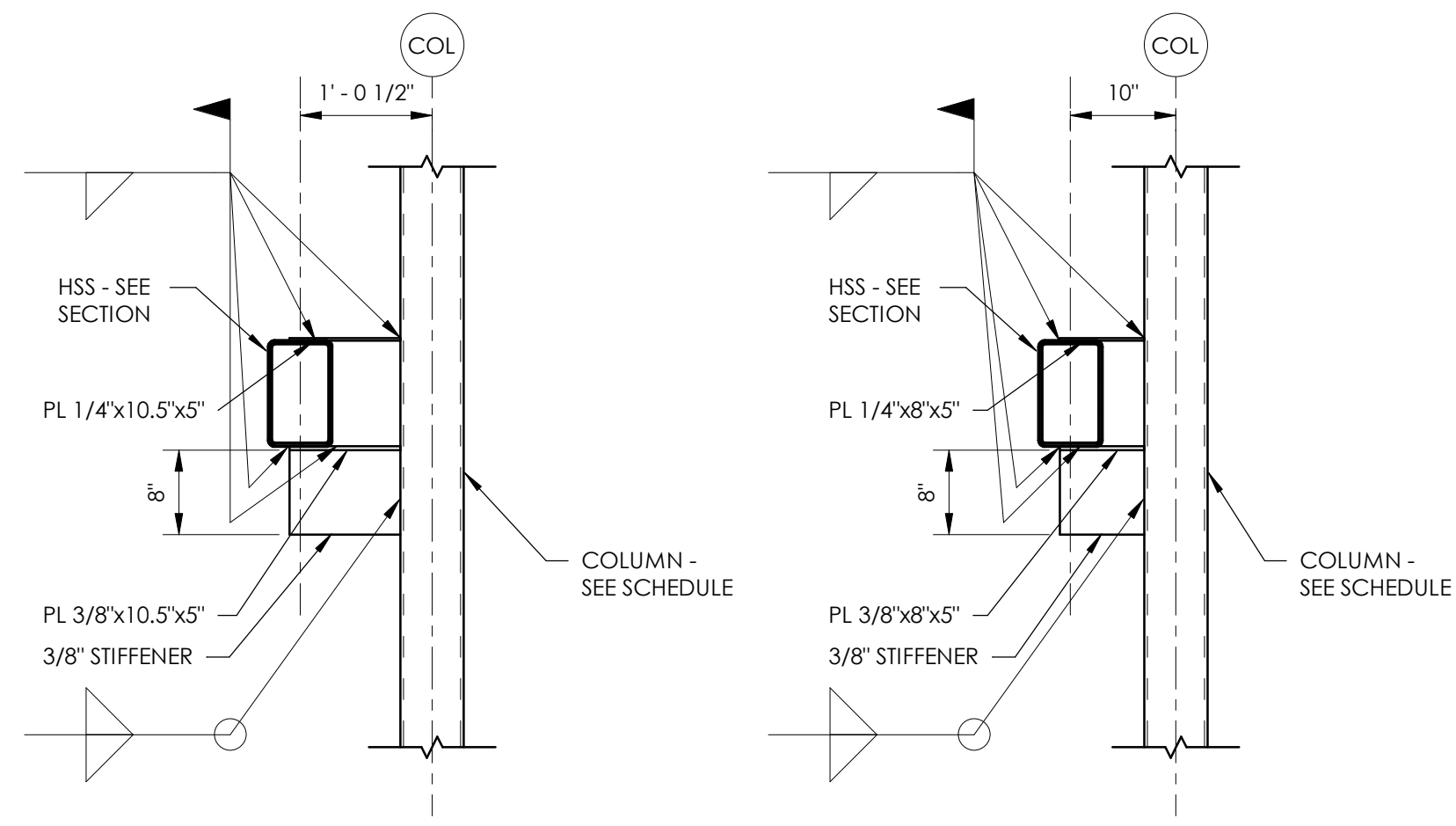
- 9.14. THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
10. STEEL DECK NOTES:
 - 10.1. DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.
 - 10.2. DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS.
 - 10.3. ROOF DECK: WIDE RIB TYPE "WV" STEEL ROOF DECK, 22 GA. 1-1/2" DEEP, GALVANIZED. A TYPICAL ROOF DECK TO LIGHTGAGE TRUSSES USING #12 TEK SCREWS ON A 36/4 PATTERN WITH #10 TEK SCREW SIDELAP FASTENERS PER SPAN.
 - 10.4. LIGHTGAGE METAL FRAMING, SUSPENDED CEILING, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE METAL ROOF DECK.
11. MASONRY NOTES:
 - 11.1. MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602 SPECIFICATION.
 - 11.2. COMPRESSIVE STRENGTH OF MASONRY (fm) SHALL BE 2000 PSI AT 28 DAYS. MASONRY UNIT STRENGTH OF 2000 PSI IS REQUIRED TO ACHIEVE REQUIRED fm.
 - 11.3. MASONRY GROUT FILL SHALL CONFORM TO ASTM C 476. GROUT EITHER FINE (SAND) OR COURSE (SAND + #7.5 STONE) AGGREGATE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. MASONRY CONCRETE FILL SHALL CONFORM TO THE REQUIREMENTS NOTED UNDER "CONCRETE" IN THE GENERAL NOTES.
 - 11.4. GROUTING:
 - A. ALL BOND BEAMS SHALL BE FILLED WITH GROUT AND REINFORCED AS INDICATED ON THE DRAWINGS (DETAILS OR SCHEDULES). MORTAR FILL IS NOT PERMITTED.
 - B. ALL MASONRY WALL CELLS OR CAVITIES INDICATED AS REINFORCED SHALL BE GROUTED FOR THE FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. UNREINFORCED WALLS INDICATED AS GROUTED SHALL BE GROUTED FULL HEIGHT, UNLESS SPECIFICALLY NOTED OTHERWISE. MORTAR FILL IS NOT PERMITTED.
 - C. ALL MASONRY CELLS OR CAVITIES BELOW GRADE SHALL BE GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. MORTAR FILL IS NOT PERMITTED.
 - D. VERTICAL GROUTING SHALL BE LOW LIFT OR HIGH LIFT AS FOLLOWS:
 1. LOW LIFT GROUTING SHALL BE USED FOR ALL CAVITY WALLS AND MAY BE USED FOR ALL WALLS AT THE OPTION OF THE CONTRACTOR. LIFTS SHALL NOT EXCEED 40" IN HEIGHT.
 2. HIGH LIFT GROUTING IS PERMISSIBLE ONLY FOR FILLING OF CELLULAR MASONRY UNITS AND SHALL NOT EXCEED ONE STORY IN HEIGHT. CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF EACH GROUTED CELL.
 - 11.5. MORTAR SHALL CONFORM TO ASTM C 270. MORTAR SHALL BE TYPE "M" FOR BELOW GRADE APPLICATIONS AND TYPE "S" FOR ABOVE GRADE APPLICATIONS AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH 1900 PSI.
 - 11.6. ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.
 - 11.7. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.
 - 11.8. ALL INTERIOR PARTITION WALLS SHALL HAVE A 8" DEEP BOND BEAM WITH #5 CONTINUOUS TOP AND BOTTOM AT THE TOP OF THE WALL, UNLESS NOTED OTHERWISE IN DRAWINGS.
 - 11.9. REINFORCING:
 - A. ALL BARS MARKED "CONTINUOUS" SHALL BE LAPPED PER "MASONRY WALL LAP SPLICE SCHEDULE" IN TYPICAL DETAILS.
 - B. FOUNDATION DOWELS MAY SLOPE A MAXIMUM OF 1:6 TO ALIGN WITH WALL CAVITIES OR VERTICAL CMU CORES. GREATER SLOPES WILL REQUIRE REPLACEMENT OF THE FOUNDATION DOWELS.
 - C. SPLICED REINFORCING SHALL BE LAPPED UNDER "REINFORCING" ABOVE OR AS SHOWN ON DRAWINGS, WHICHEVER IS GREATER. ALL SPLICES SHALL BE WIRED TOGETHER.
 - D. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY AND SHALL BE HELD IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4'-0". ACCESSORIES FOR SUCH SUPPORT SHALL BE USED. PROVIDE "AA WIRE PRODUCTS COMPANY" (OR APPROVED EQUAL) REBAR POSITIONER AA225 OR AA239 FOR VERTICAL BARS AND AA28 FOR HORIZONTAL BARS OR APPROVED EQUAL PRODUCTS FROM OTHER SUPPLIERS.
 - E. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED NO LESS THAN 6" AT ALL SPLICES, INCLUDING CORNERS AND TEES WHERE NO CONTROL JOINT IS USED.
 - F. ALL HORIZONTAL JOINT REINFORCING SHALL STOP AT CONTROL JOINTS.
 - 11.10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF MASONRY CONTROL JOINTS.
 - A. PROVIDE MAXIMUM SPACING OF 25'-0" O.C. ALONG CONTINUOUS RUNS OF CONCRETE MASONRY UNITS.
 - B. CONTROL JOINTS SHALL NOT BE WITHIN 4'-0" FROM ANY CORNER.
 - 11.11. WHEN REINFORCING IS SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.
 - 11.12. ALL MASONRY WALLS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION. ONLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF CONSTRUCTION.
 - 11.13. PROVIDE HORIZONTAL LATERAL JOINT REINFORCEMENT AT 16" O.C., U.N.O.
12. COLD-FORMED METAL FRAMING NOTES:
 - 12.1. ALL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE.
 - 12.2. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003, WITH A MINIMUM YIELD STRENGTH OF 33 KSI OR 50 KSI AS INDICATED.
 - 12.3. ALL MEMBERS SHOWN ARE STANDARD DESIGNATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
 - 12.4. DESIGN OF MEMBERS INDICATED IN STRUCTURAL DRAWINGS IS BASED ON MINIMUM PROPERTIES OF PRODUCTS PRODUCED BY "DIETRICH INDUSTRIES, INC." NO SUBSTITUTION OF MATERIALS IS ACCEPTABLE FOR USE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. SUBSTITUTIONS ARE ACCEPTABLE, SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER AND SHALL MEET OR EXCEED ALL PROPERTIES OF PRODUCTS PRODUCED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
 - 12.5. FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL LIGHTGAGE STEEL FRAMING AND SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL SEAL AND SIGN BOTH CALCULATIONS AND SHOP DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED ONLY TO SHOW THE RELATIONSHIP OF THE MEMBERS AND INFORMATION FOR PRICING/BIDDING.
 - 12.6. SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR DETAILS, FABRICATION, AND ERECTION OF LIGHTGAGE STEEL FRAMING DRAWINGS SHALL INCLUDE LAYOUT, SPACING, TYPE, MATERIAL/MEMBER PROPERTIES AND ALL DETAILS OF CONNECTIONS FOR LIGHTGAGE STEEL FRAMING INDICATED ON THE STRUCTURAL DRAWINGS.
 - 12.7. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH THE OTHER TRADES.
 - 12.8. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT TIGHT AGAINST ABUTTING MEMBERS.
 - 12.9. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED TIGHT AGAINST THE INSIDE OF RUNNER WEBS PRIOR TO FASTENING. PROVIDE WEAR-AND-HORIZONTAL BRACING AT 36 INCHES MAXIMUM VERTICAL SPACING. BOTH STUD FLANGES, HORIZONTAL BRACING SHALL BE 1-1/2" X 20 GA STRAPS AND CS TYPE RUNNER SOLID BRIDGING AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND 8'-0" O/C MAXIMUM.
 - 12.10. WHERE STUD FRAME TO STRUCTURAL FLOOR OR ROOF MEMBERS SUBJECT TO DEFLECTION FROM OCCUPANT LIVE LOADING, A DEFLECTION CLIP ASSEMBLY SHALL BE PROVIDED AT THE TOP RUNNER TO ACCOMMODATE VERTICAL STRUCTURAL MOVEMENT.
 - 12.11. FASTENING OF COMPONENTS SHALL BE BY SELF-DRILLING SCREWS OR BY WELDING AS DEFINED BELOW U.N.O. ON THE DRAWINGS.
 - 12.12. SCREWED CONNECTIONS:
 - A. SCREWS SHALL BE TYPE S-12 OR TYPE S-4 FOR ALL FRAMING MEMBERS PER MANUFACTURER'S RECOMMENDATIONS.
 - B. A MINIMUM OF THREE (3) EXPOSED THREADS SHALL PENETRATE THROUGH ALL JOINED MATERIALS.
 - C. CORROSION-RESISTANT CADMIUM-PLATED SCREWS SHALL BE USED FOR SCREWS ATTACHING METAL LATH, MASONRY TIES, AND OTHER EXTERIOR MATERIALS.
 - 12.13. CUTTING OF STEEL FRAMING MEMBERS MAY BE DONE WITH A SAW OR CUTTING SHEARS. TORCH CUTTING OF LOAD BEARING MEMBERS IS NOT PERMITTED.
 - 12.14. COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM RUNNER. AT SPLICES WHERE SUPPORT IS NOT COMMON TO BOTH RUNNERS, EITHER BUTT WELD RUNNERS OR USE A STUD SECTION INSERTED IN THE RUNNER AS A SPLICING MEMBER ATTACHED PER MANUFACTURER'S RECOMMENDATIONS. RUNNER INTERSECTIONS SHALL BUTT EVENLY.

- 12.15. SPACING OF STUDS SHALL HAVE A TOLERANCE OF 1/8" FROM THAT SHOWN ON THE DRAWINGS, PROVIDING THAT THE CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF OTHER MATERIALS OR CONSTRUCTION.
 - 12.16. ALIGNMENT OF STUDS (PLUMBNESS) AND WALLS (STRAIGHTNESS) SHALL BE WITHIN 1/960TH OF THEIR RESPECTIVE HEIGHTS AND LENGTHS.
 - 12.17. STUDS SHALL BE PLUMBED ALIGNED AND SECURELY ATTACHED TO BOTH TOP AND BOTTOM RUNNERS. SPLICES IN STUDS ARE NOT PERMITTED.
 - 12.18. TEMPORARY BRACING WHERE REQUIRED, SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
 - 12.19. WHERE MANUFACTURER'S RECOMMENDATIONS FOR ERECTION, ATTACHMENT, ASSEMBLY, BRACING ALIGNMENT OR OTHER REQUIREMENTS ARE MORE STRINGENT THAN INDICATED IN THESE DRAWINGS OR THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS SHALL APPLY.
13. PREFABRICATED COLD-FORMED METAL TRUSS NOTES:
 - 13.1. STRUCTURAL PROPERTIES OF TRUSS MEMBERS SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
 - 13.2. THE TRUSS FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL PREFABRICATED COLD-FORMED METAL TRUSS FRAMING AND SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL SEAL AND SIGN BOTH CALCULATIONS AND SHOP DRAWINGS.
 - 13.3. THE TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS (IN ADDITION TO ANY LOADS NOTED ON THE STRUCTURAL DRAWINGS OR OTHER CONSULTANTS/TRADES DRAWINGS):

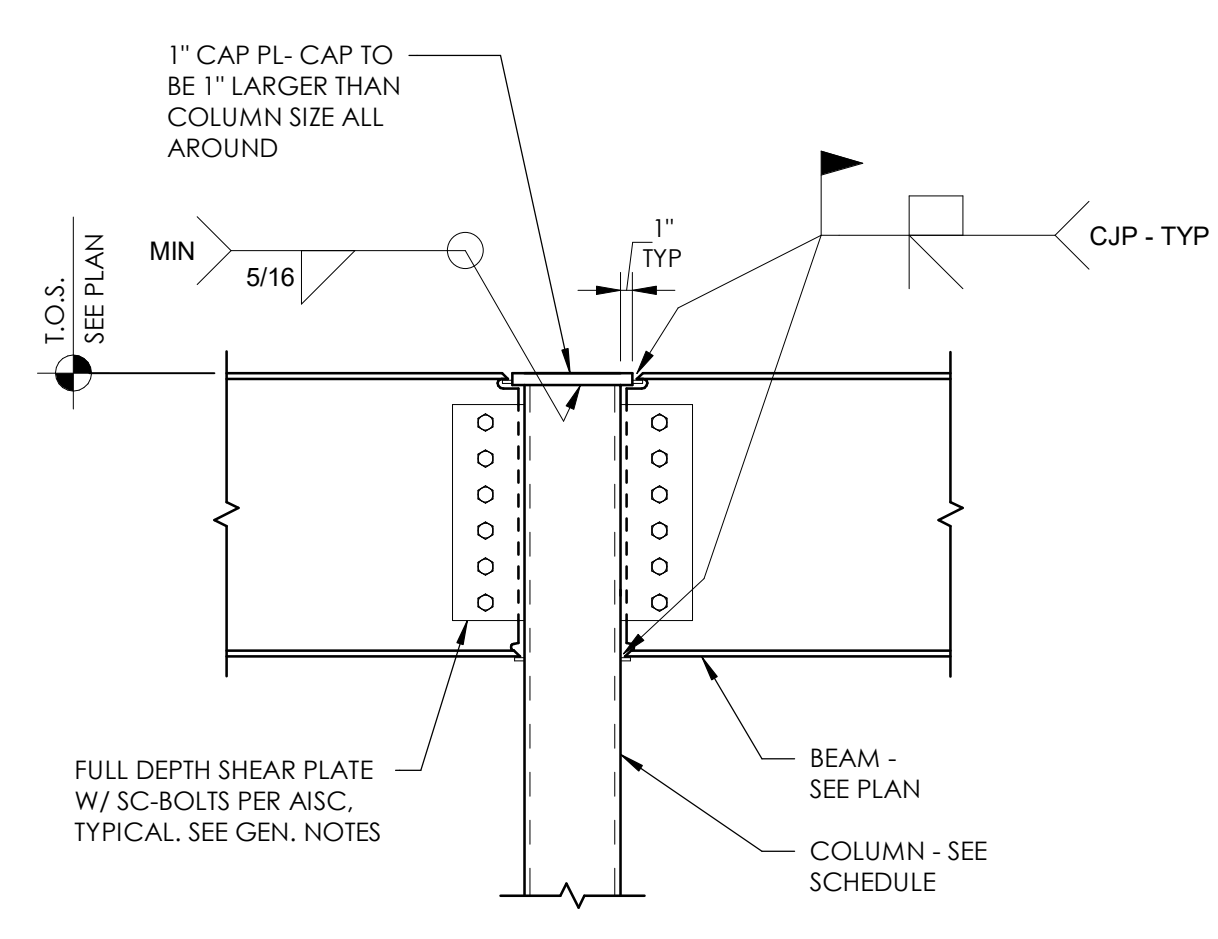
A. TOP CHORD DEAD LOAD	20 PSF
B. BOTTOM CHORD DEAD LOAD	10 PSF
C. TOP CHORD LIVE LOAD	20 PSF
 - 13.4. DESIGN ROOF TRUSSES TO RESIST THE UPLIFT WIND PRESSURES INDICATED IN THE TABLE ON S1.05. COORDINATE WIND PRESSURES IN TABLE WITH "COMPONENTS AND CLADDING ZONES" DIAGRAM ON S1.05. TRUSSES SHALL BE DESIGNED FOR WIND UPLIFT USING THE FOLLOWING:

A. DEAD LOAD	8 PSF
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 - 13.5. SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR DETAILS, FABRICATION, AND ERECTION OF COLD-FORMED METAL TRUSS FRAMING. DRAWINGS SHALL INCLUDE LAYOUT, SPACING, TYPE, MATERIAL/MEMBER PROPERTIES, TEMPORARY BRACING, PERMANENT BRACING, AND ALL DETAILS OF CONNECTIONS FOR ALL COLD-FORMED METAL TRUSS FRAMING INDICATED ON THE STRUCTURAL DRAWINGS.
 - 13.6. SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, AND COORDINATION WITH THE OTHER TRADES.
 - 13.7. ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR PREFABRICATED COLD-FORMED METAL TRUSSES SHALL BE DESIGNED AND DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
 - 13.8. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

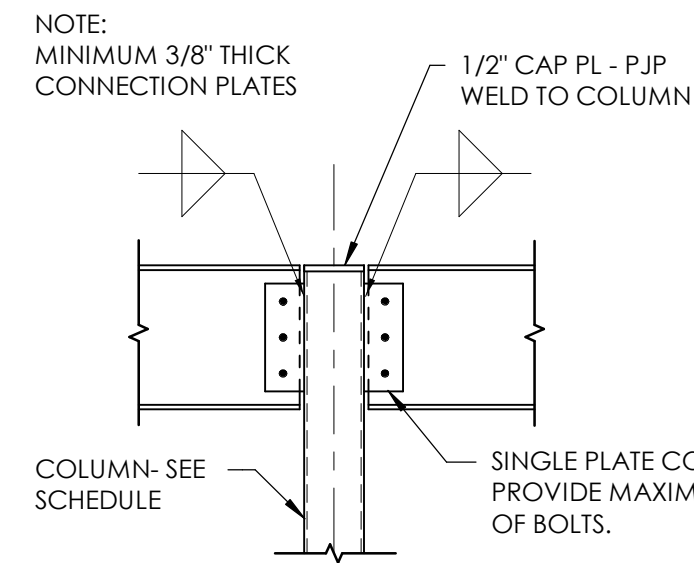
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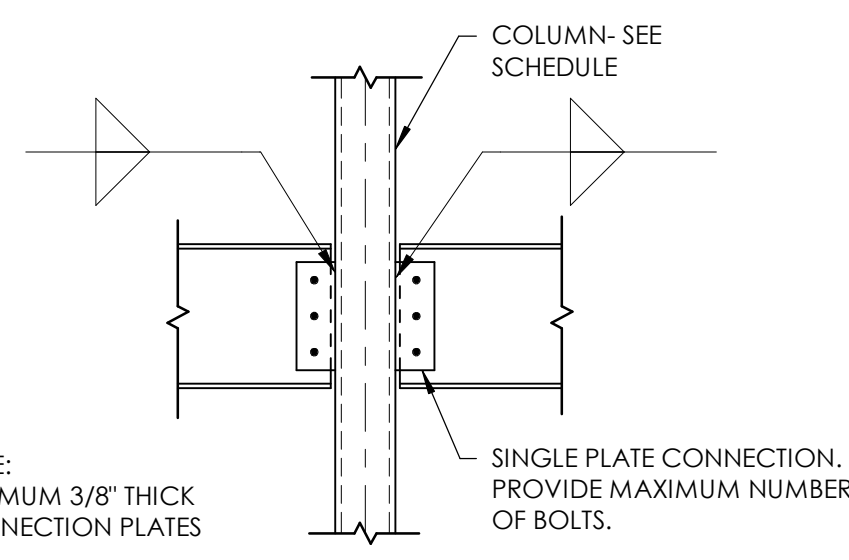
TYPICAL HSS TO COLUMN CONNECTION



TYPICAL MOMENT CONNECTION DETAIL



TYPICAL BEAM TO COLUMN CONNECTION



TYPICAL BEAM TO COLUMN CONNECTION

MASONRY WALL LAP SPLICE SCHEDULE

BAR Ø	8" WIDE WALLS		12" WIDE WALLS	
	f _m = 2000psi	f _m = 2500psi	f _m = 2000psi	f _m = 2500psi
#4	15"	12"	12"	12"
#5	24"	18"	15"	12"
#6	44"	34"	28"	21"
#7	61"	47"	38"	29"
#8	91"	71"	57"	44"
#9	115"	89"	72"	56"

MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS & REINFORCING			
	DEPTH	8" WALL	12" WALL	
2'-0"	8"	1#4 BOT	1#4 BOT	
4'-0"	8"	1#4 BOT	2#4 BOT	
6'-0"	8"	1#4 BOT & 1#4 TOP	2#5 BOT & 2#4 TOP	
8'-0"	16"	1#4 BOT & 1#4 TOP	2#5 BOT & 2#5 TOP	
10'-0"	16"	1#4 BOT & 1#4 TOP	2#6 BOT & 2#5 TOP	

- DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL, IF STACK BOND IS SPECIFIED, OR IF THERE ARE CONTROL JOINTS OR WALL CORNERS WITHIN CLEAR SPAN/2 OF EITHER SIDE.
- PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
- ALL EXPOSED LINTELS SHALL BE GALVANIZED.
- VERTICAL CONTROL JOINTS IN THE BRICK WITHIN DISTANCE OF CLEAR SPAN/2 FROM THE ROUGH OPENING ARE NOT ALLOWED.

BRICK LOOSE LINTEL SCHEDULE

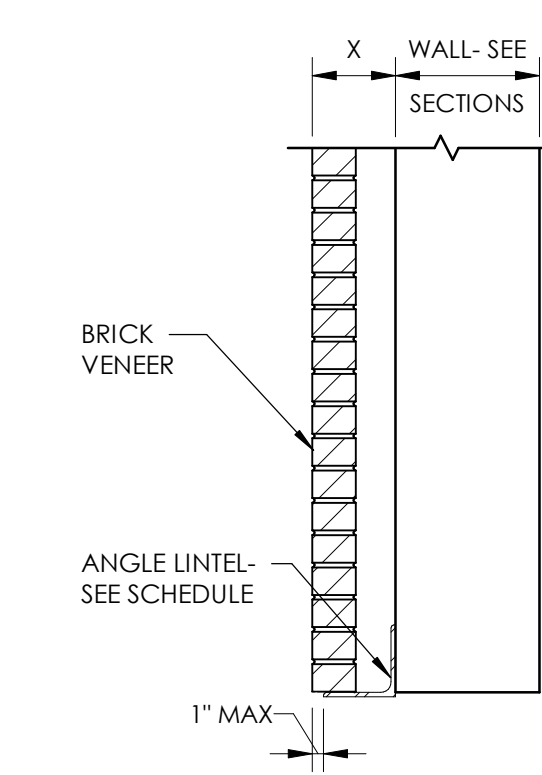
CLEAR SPAN	X = 6"	X = 6 1/2"	X = 7"	X = 7 1/2"	X = 8"
UP TO 6'-0"	LSX3 1/2X3/8 LLH	L6X6X3/8	L6X6X3/8	LSX5X3/8	LSX5X3/8
6'-0" TO 8'-0"	LSX5X3/8	L6X6X3/8	L6X6X3/8	LSX5X3/8	LSX5X3/8
8'-0" TO 10'-0"	BENT PL 8X5 1/2X3/8 LLV	BENT PL 8X6X3/8 LLV	BENT PL 8X5X3/8 LLV	BENT PL 8X5X3/8 LLV	BENT PL 8X5X3/8 LLV

- DO NOT USE THIS SCHEDULE IF A CONCENTRATED LOAD IS APPLIED TO THE LINTEL AT A HEIGHT LESS THAN HALF THE SPAN ABOVE THE LINTEL.
- PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
- ALL EXPOSED LINTELS SHALL BE GALVANIZED.
- VERTICAL CONTROL JOINTS IN THE BRICK WITHIN DISTANCE OF CLEAR SPAN/2 FROM THE ROUGH OPENING ARE NOT ALLOWED.

Design Components and Cladding...

Effective Wind Area	Zone 5 GCp+		Zone 5 GCp-	
	< 10 sq. ft.	11.26 psf	16.21 psf	-21.70 psf
20 sq. ft.	10.58 psf	15.52 psf	-20.33 psf	-15.38 psf
50 sq. ft.	9.20 psf	14.15 psf	-18.27 psf	-13.32 psf
100 sq. ft.	8.52 psf	13.46 psf	-16.89 psf	-11.95 psf
200 sq. ft.	7.83 psf	12.77 psf	-15.52 psf	-10.58 psf
> 500 sq. ft.	7.14 psf	12.09 psf	-13.46 psf	-8.52 psf

IMPORTANT: A reduction factor of 0.4 has been included in the ASD Wind Load Calculations. Do not reapply the factor when considering load combinations.



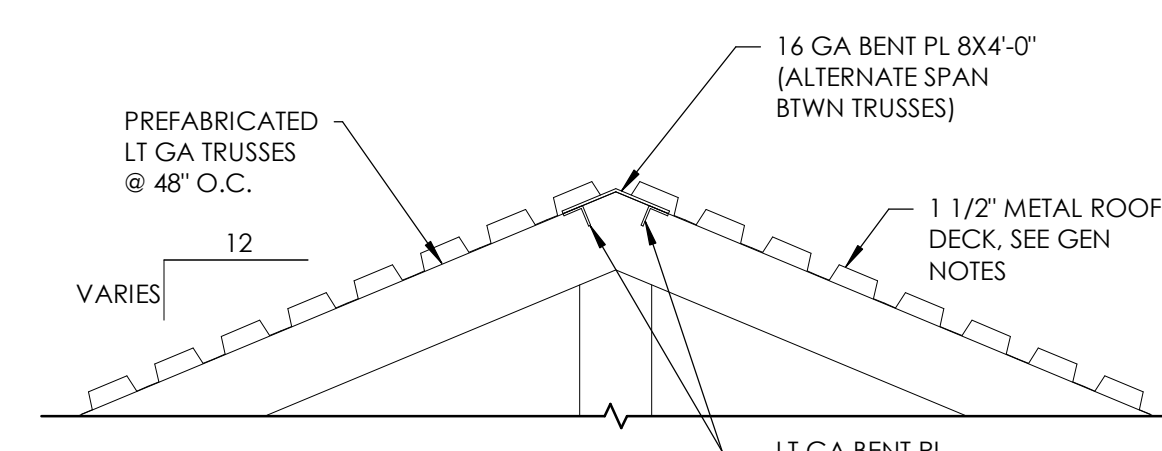
Design Components and Cladding...

Effective Wind Area	Zone 3 GCp+		Zone 3 GCp-	
	< 10 sq. ft.	7.14 psf	12.09 psf	-27.19 psf
20 sq. ft.	5.77 psf	10.71 psf	-27.19 psf	-22.25 psf
50 sq. ft.	3.02 psf	7.97 psf	-20.33 psf	-15.38 psf
100 sq. ft.	1.65 psf	6.59 psf	-16.21 psf	-11.26 psf
200 sq. ft.	1.65 psf	6.59 psf	-16.21 psf	-11.26 psf
> 500 sq. ft.	1.65 psf	6.59 psf	-16.21 psf	-11.26 psf

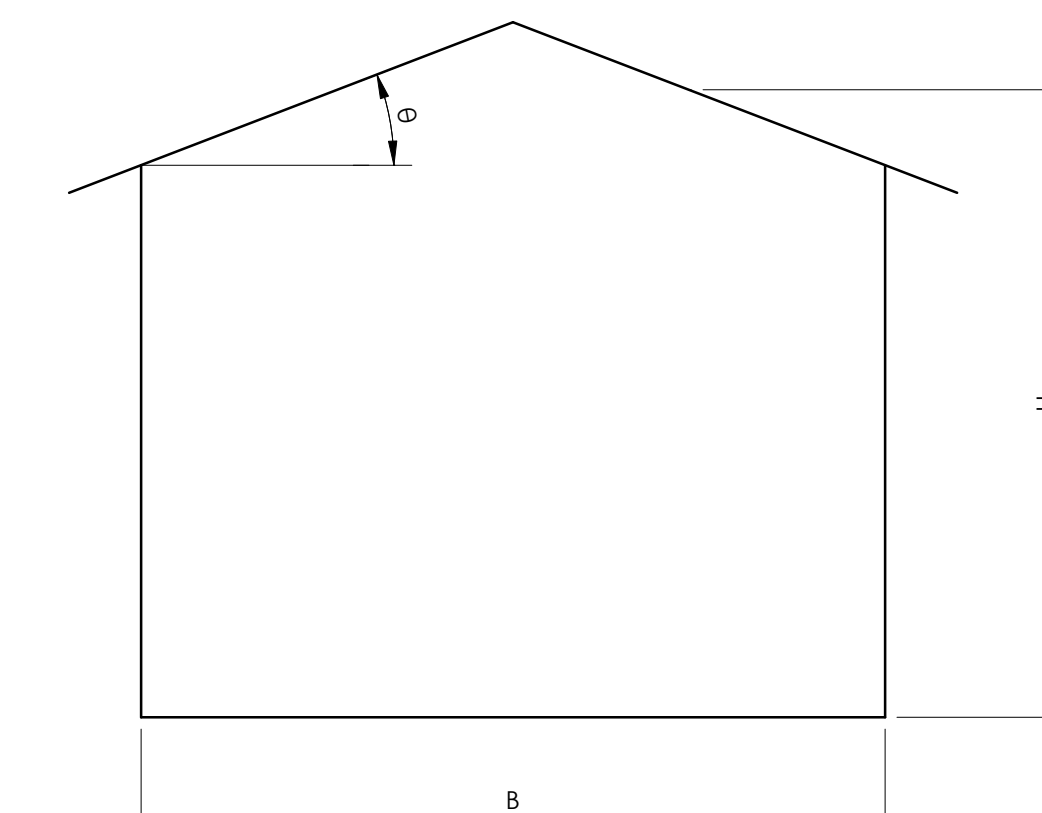
IMPORTANT: A reduction factor of 0.4 has been included in the ASD Wind Load Calculations. Do not reapply the factor when considering load combinations.

Effective Wind Area	Zone 2r GCp+		Zone 2r GCp-	
	< 10 sq. ft.	7.14 psf	12.09 psf	-35.43 psf
20 sq. ft.	5.77 psf	10.71 psf	-32.00 psf	-27.06 psf
50 sq. ft.	3.02 psf	7.97 psf	-27.19 psf	-22.25 psf
100 sq. ft.	1.65 psf	6.59 psf	-26.51 psf	-21.56 psf
200 sq. ft.	1.65 psf	6.59 psf	-20.33 psf	-15.38 psf
> 500 sq. ft.	1.65 psf	6.59 psf	-20.33 psf	-15.38 psf

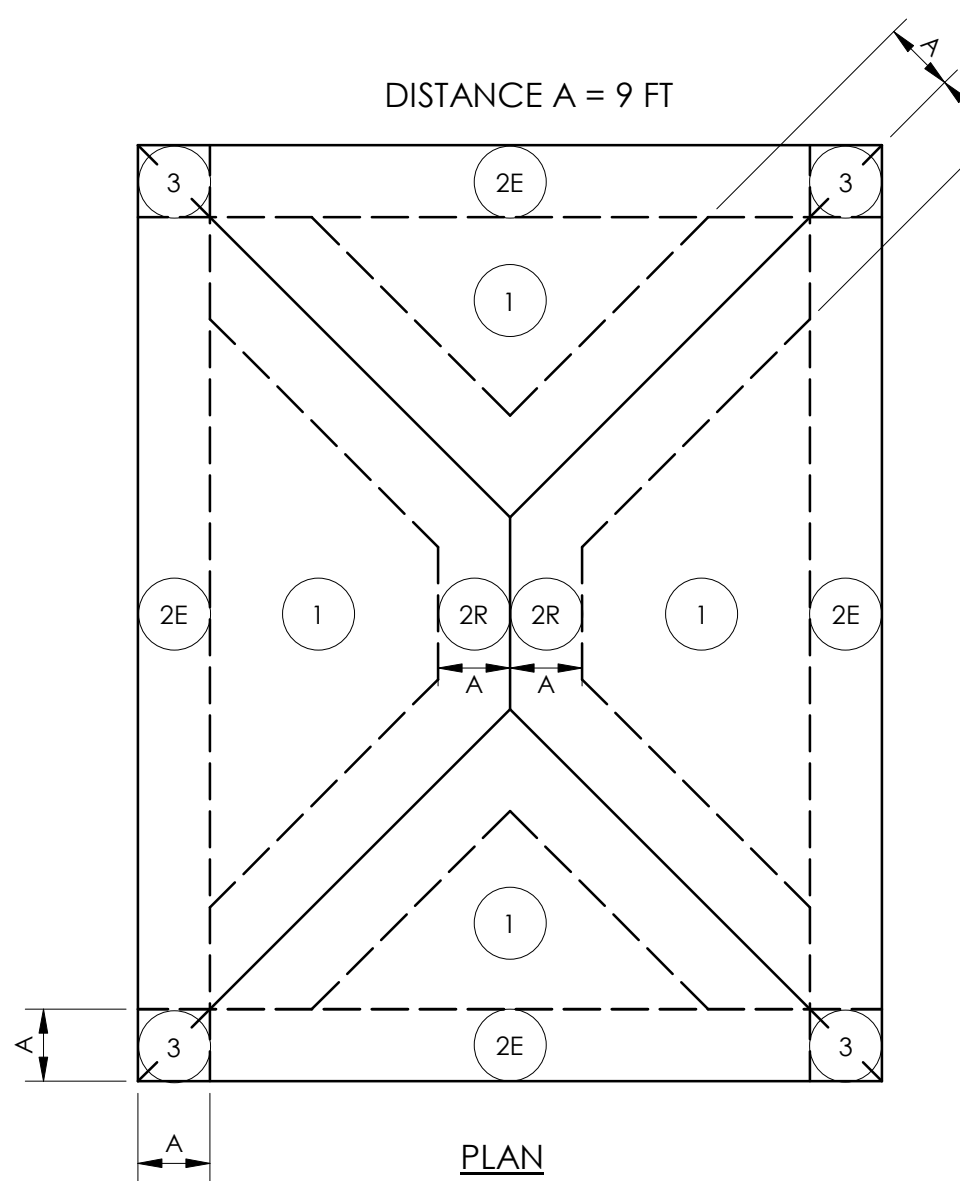
IMPORTANT: A reduction factor of 0.6 has been included in the ASD Wind Load Calculations. Do not reapply the factor when considering load combinations.



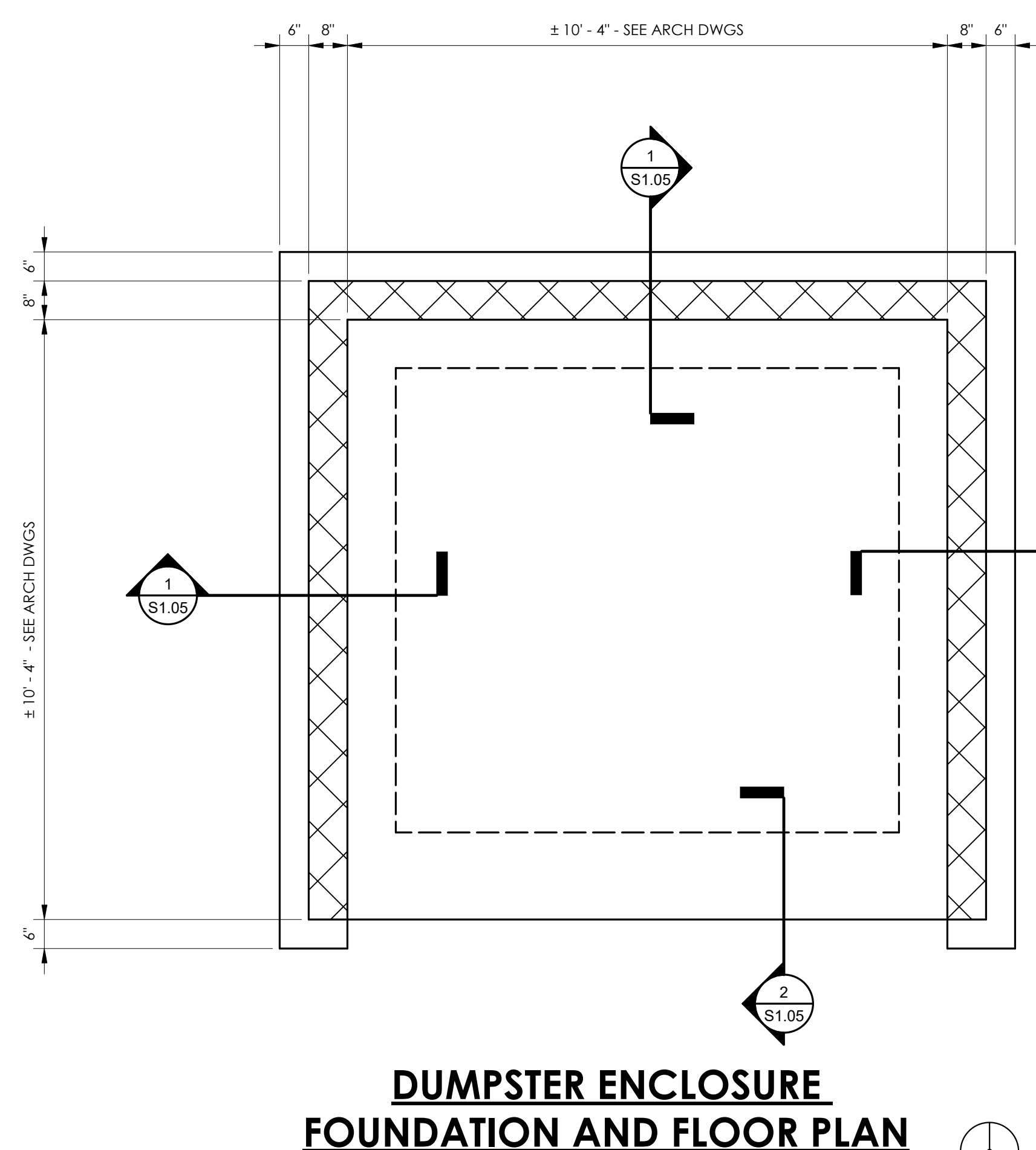
TYPICAL ROOF RIDGE DETAIL



ELEVATION

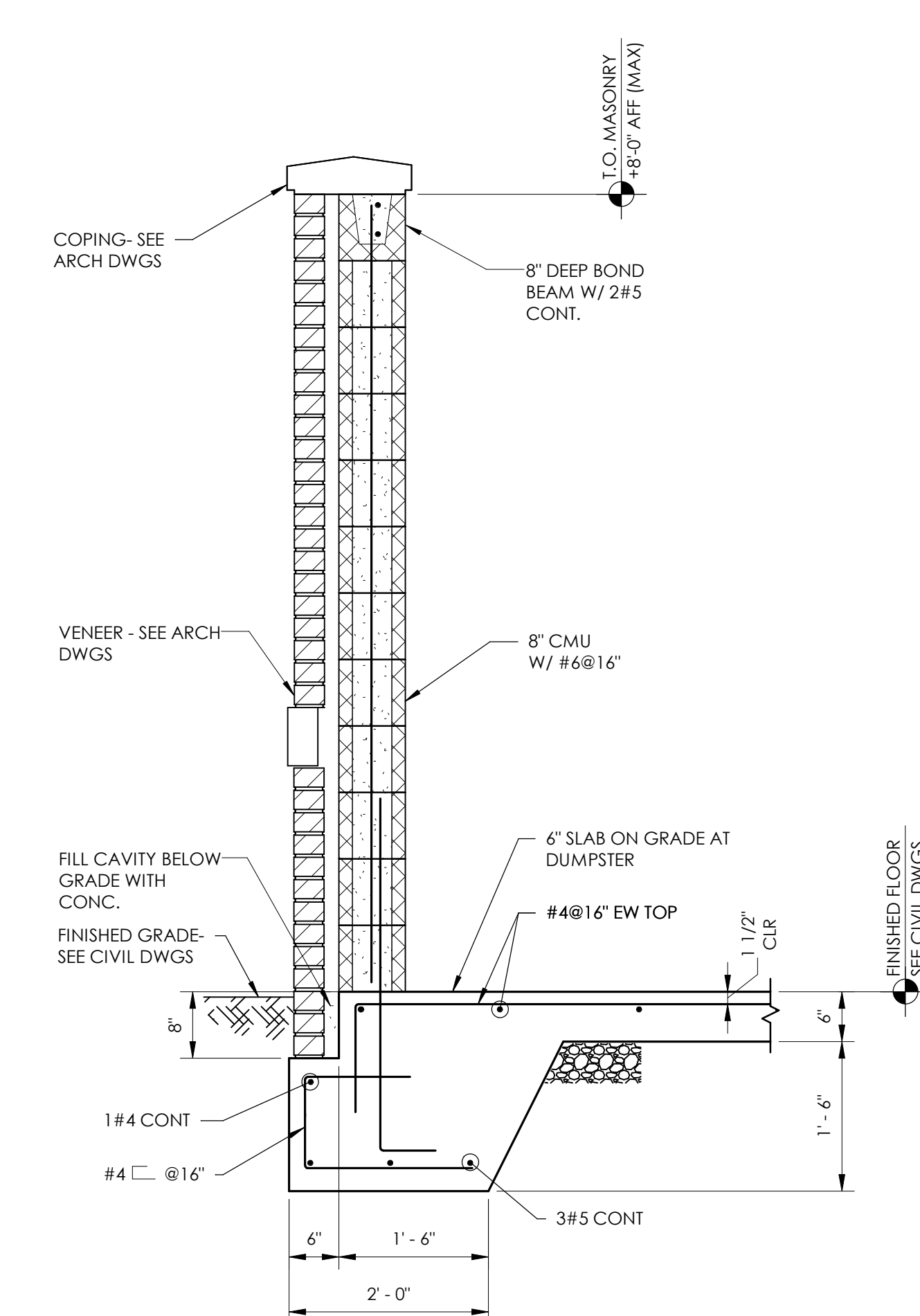


**COMPONENT AND CLADDING ZONES
HIP ROOFS, 7° < θ < 45°**

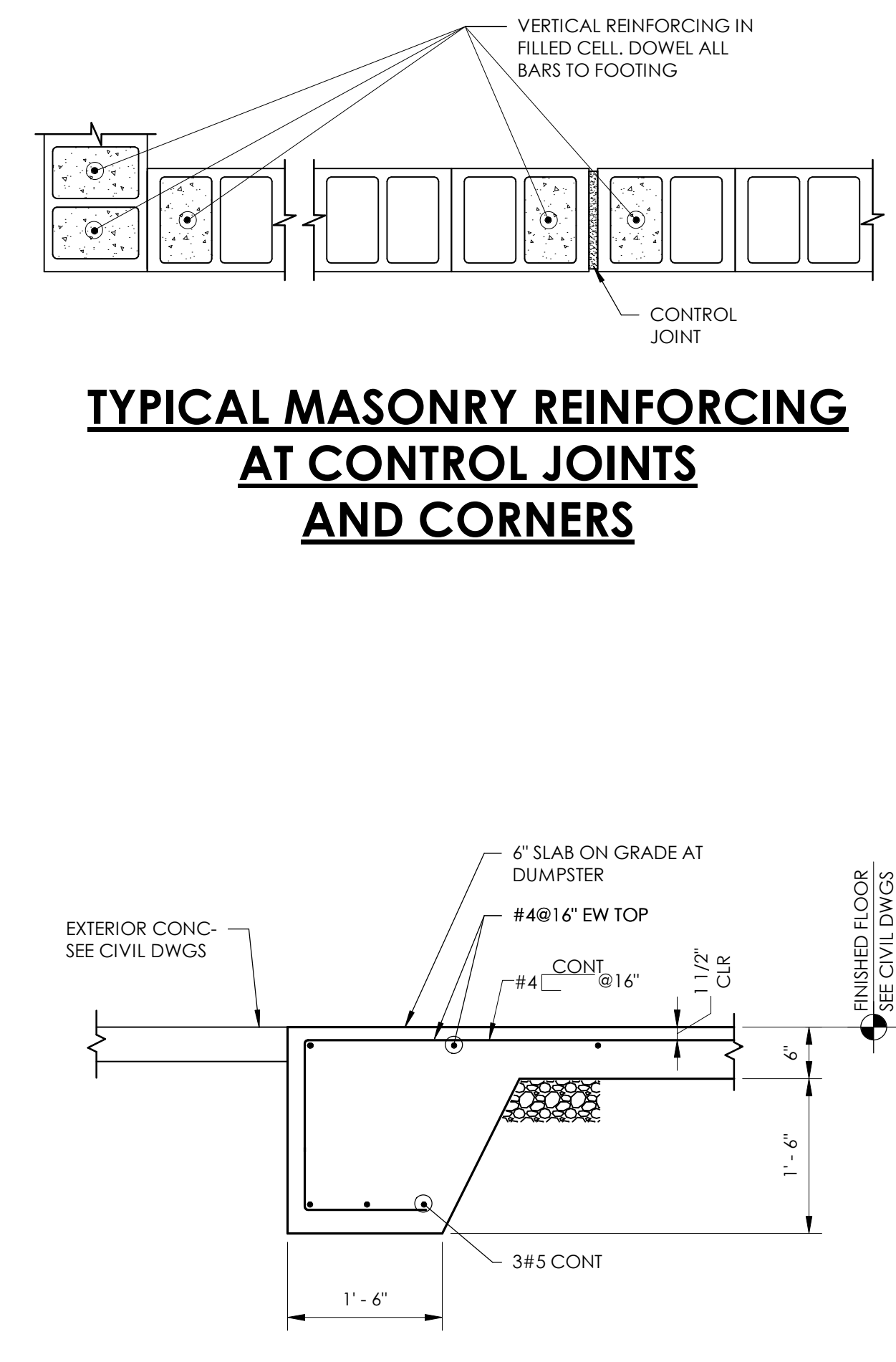


DUMPSTER ENCLOSURE FOUNDATION AND FLOOR PLAN

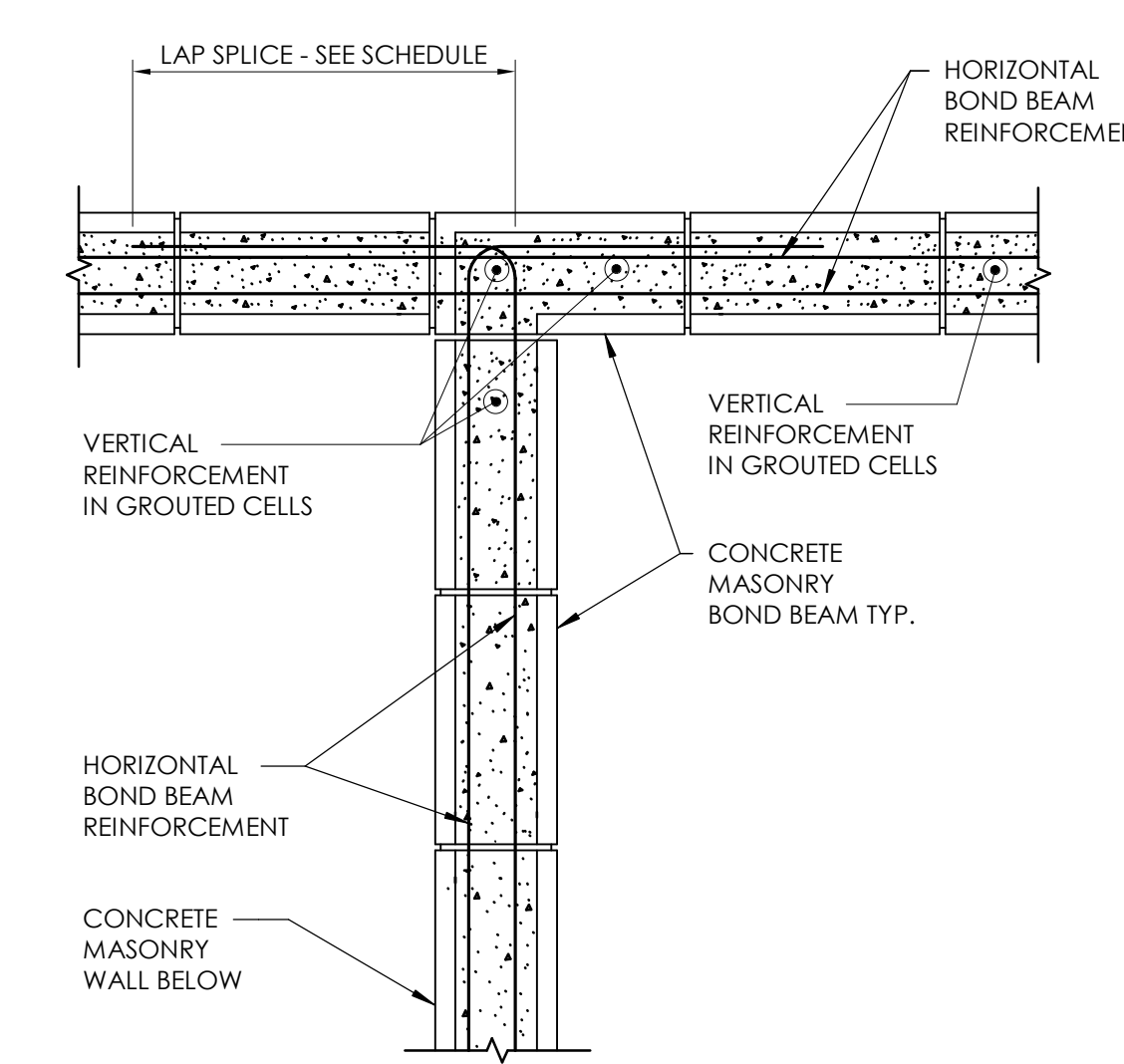
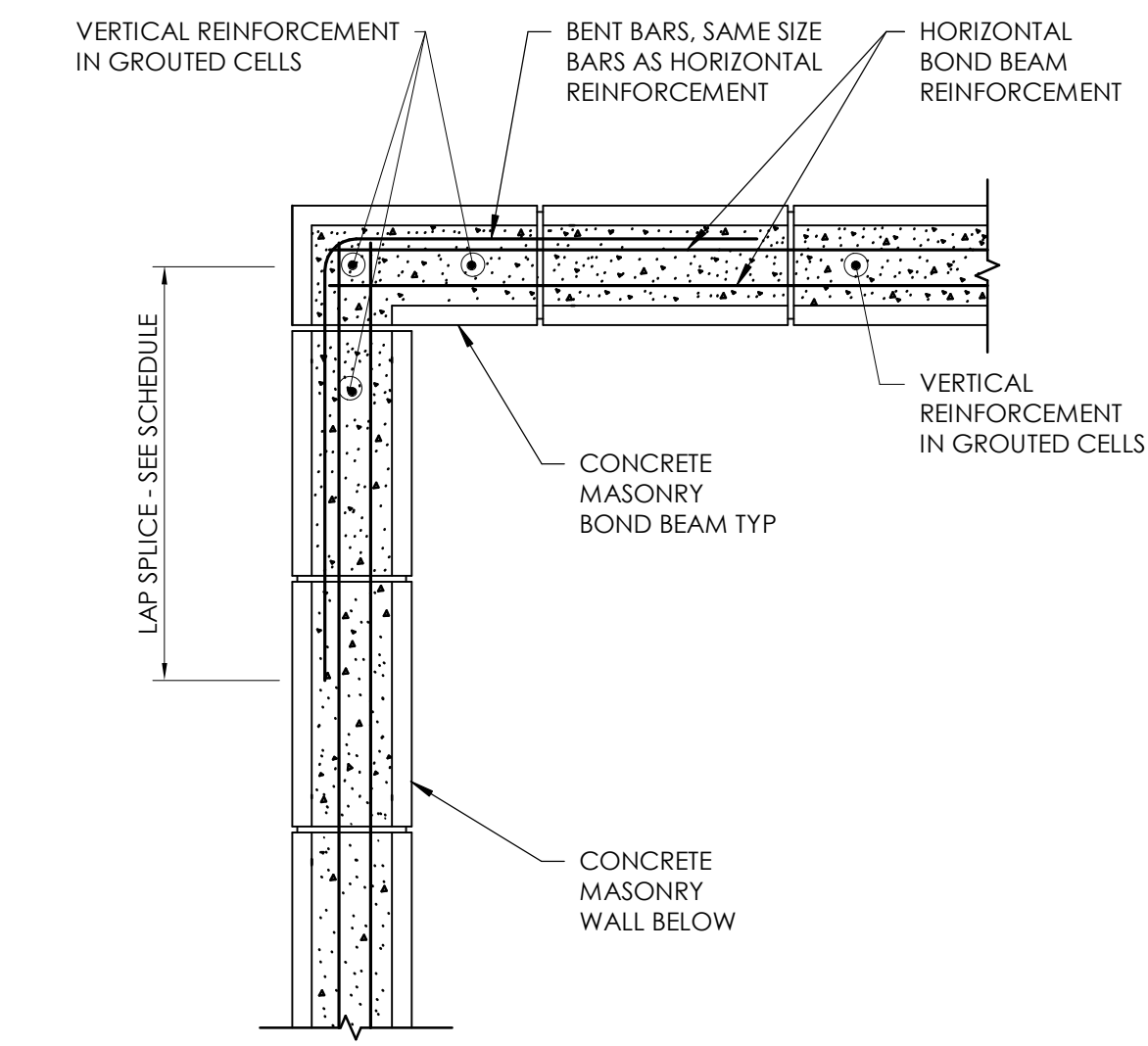
- SEE CIVIL DRAWINGS FOR ELEVATION OF SLAB ON GRADE.
- SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR LOCATION AND PLAN ORIENTATION ON SITE.
- SEE SECTIONS FOR TOP OF MASONRY ABOVE SLAB ON GRADE.
- PROVIDE 6" SLAB ON GRADE AT DUMPSTER ENCLOSURE WITH #4@16" EACH WAY. PLACE REINFORCING IN TOP THIRD OF SLAB.



TYPICAL MASONRY REINFORCING AT CONTROL JOINTS AND CORNERS



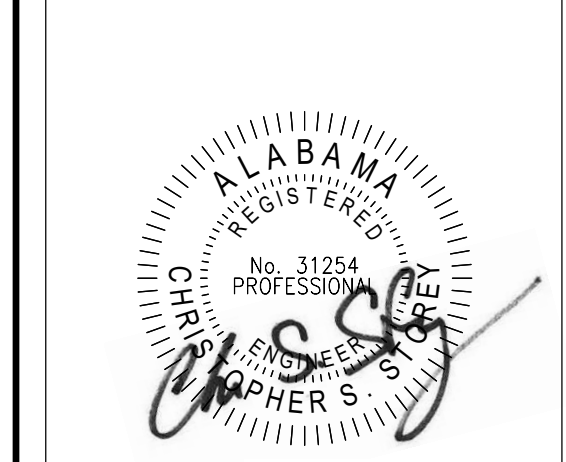
TYPICAL BOND BEAM CORNER REINFORCING DETAILS



TYPICAL WALL CORNER REINFORCING DETAILS

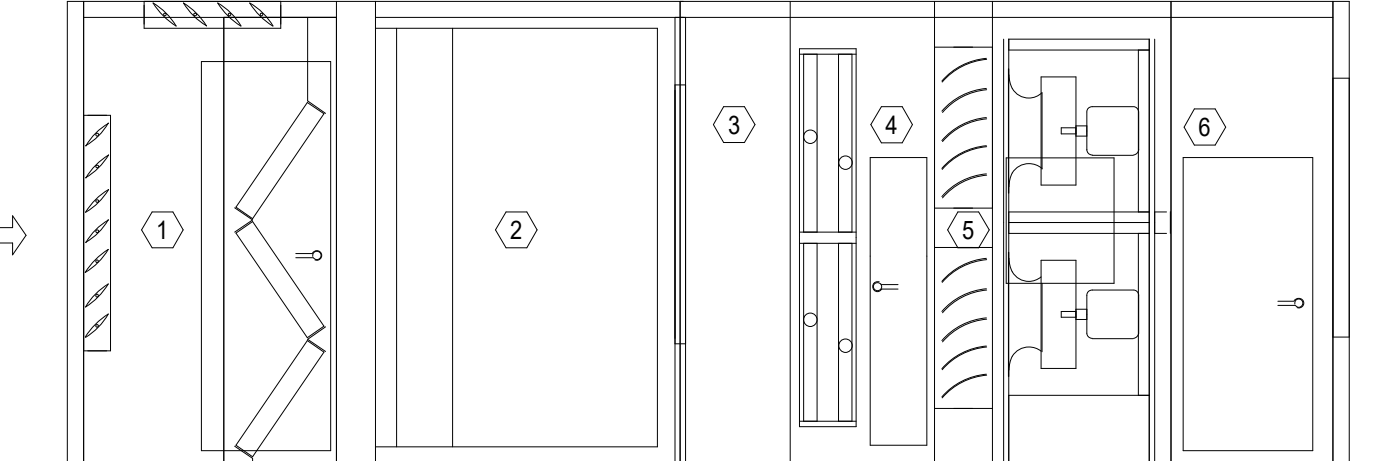
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AIR DIRT SEPARATOR SCHEDULE								
MARK	SYSTEM	TYPE	MAX FLOW (GPM)	MAX PRESSURE DROP (PSIG)	MAX VELOCITY (FPS)	MINIMUM FLANGE SIZE	ACCESSORIES	BASIS OF DESIGN (ARMSTRONG)
ADS-CH	CHILLED WATER SYSTEM	[A]	191	1.0 PSIG	6 FPS	4"	[1] [2] [3] [4] [5]	DAS-4-R
TYPE: [A] STANDARD VELOCITY UNIT			NOTE: 1. UNIT SHALL BE ASME RATED (125 PSI) 2. REMOVE 99% DISSOLVED OXYGEN AND 100% OF ENTRAINED AIR AFTER 10 PASSES			ACCESSORIES: [1] BLOW DOWN WITH BRONZE BALL VALVE (STAINLESS STEEL BALL) [2] SKIM VALVE WITH BRONZE BALL VALVE (STAINLESS STEEL BALL) [3] STAINLESS STEEL COALESCING MEDIA [4] HIGH CAPACITY AUTOMATIC AIR VENT [5] REMOVABLE BOTTOM HEAD		

FAN SCHEDULE											
MARK	SERVES	LOCATION	TYPE	CFM	E.S.P. IN. W.G.	LIMIT	MOTOR		ACCESSORIES	INTERLOCK	BASIS OF DESIGN (GREENHECK)
							HP	V/Ø			
EF-1	SEE PLANS	CORRIDOR	A	2850	0.8	13.9 SONES	1.0	115/1	[1] [2] [3] [4] [5] [6] [7] [8] [9]	AHU-1/BAS	SQ-160-VG
FAN TYPES: [A] INLINE CENTRIFUGAL EXHAUST FAN, DIRECT DRIVE							FAN ACCESSORIES: [1] BACKDRAFT DAMPER [2] FLEXIBLE CONNECTORS [3] SPRING ISOLATORS [4] MOTOR SIDE GUARD [5] BEARING WITH GREASE FITTING [6] THERMAL OVERLOAD PROTECTION [7] PREWIRED DISCONNECT SWITCH [8] ECM MOTOR WITH UNIT MOUNTED CONTROLLER (VARI-GREEN) [9] ACOUSTICAL HOUSING				
FAN SCHEDULE NOTES: 1. LIMIT = DESIGN CRITERIA: MAX. SONES											

AHU SCHEDULE																												
MARK	SERVES	TYPE	SUPPLY FAN						COOLING COIL						HEATING COIL						FILTERS	ACCESSORIES	BASIS OF DESIGN					
			CFM	E.S.P. IN. W.G.	MIN. OSA CFM	MOTOR		CFM	AIR ENT.	AIR LVG.	GPM	EWT (°F)	MAX FACE VEL. (FPM)	# OF COILS	CFM	KW	MAX FACE VEL. (FPM)	EAT (°F)	LAT (°F)	ELEC. HEATER								
							HP	V/Ø	MCA	MOCP		*Fdb	*Fwb	*Fdb	*Fwb					MCA	MOCP							
AHU-1	OFFICES	I	38000	2.5	6100	(4) @ 15 HP EACH	460/3	89.9	110	38000	78.6	62.8	52.0	51.9	200.0	45.0	580	2	38000	180	607	25	40	226	250	[A]	[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17]	CSAA066
TYPES: I: MODULAR VARIABLE VOLUME, HORIZONTAL DRAW THROUGH WITH INTERNAL FAN ISOLATION. DIRECT DRIVE PLENUM FANWALL.			ACCESSORIES: [1] VARIABLE FREQUENCY DRIVE (SUPPLY FAN) - UNIT MOUNTED [2] 2" DOUBLE WALL CONSTRUCTION W/ R-13 INSULATION [3] FLEX CONNECTIONS AT SUPPLY AND RETURN W/ COPPER JUMPERS [4] DIRECT DRIVE SUPPLY FANWALL [5] FAN WALL (EACH FAN CUBE TO HAVE INDEPENDENT BACKDRAFT DAMPER) [6] COOLING COIL SECTION WITH TYPE 304 S.S. COIL CASING AND S.S. DOUBLE WALL DRAIN PAN [7] HINGED ACCESS DOORS IN ALL SECTIONS [8] EACH FAN SECTION TO BE SINGLE POINT WIRING CONNECTION. [9] PIEZOMETER FAN INLET AFM WITH TRANSMITTER & LCD READOUT (SA) [10] SERVICE LIGHTS IN ALL ACCESS SECTIONS SHOWN WIRED TO COMMON SWITCH WITH PILOT LIGHT AT FAN ACCESS DOOR. [11] ALUMINUM TREAD PLATE FLOORING IN ALL ACCESS SECTIONS [12] COOLING COIL SECTION TO BE PROVIDED WITH UV LIGHT (BY UNIT MFR.) [13] FAN SECTION ACCESS DOOR SAFETY SWITCH [14] FAN WALL MOTOR SAFETY SCREEN [15] 6" HIGH BASE RAIL (MIN.) [16] UNIT MOUNTED RETURN AIR CONTROL DAMPER [17] UNIT SHIPPED FOR BREAKDOWN CONSTRUCTION. UNIT TO BE RE-ASSEMBLED ON SITE BY MANUFACTURER REPRESENTATIVE																									
NOTES: A. SCHEDULED SUPPLY FAN EXTERNAL PRESSURE DOES NOT INCLUDE THE FOLLOWING AIR PRESSURE DROPS IN "WG": PRE FILTER: ALL UNITS = 1.00" (CHANGEOUT) FINAL FILTERS: ALL UNITS = 1.50" (CHANGEOUT) B. MAXIMUM COOLING COIL WATER PRESSURE DROP = 15 FT. C. MAX COIL FACE VELOCITY = 500 FPM D. COILS TO BE A MAX PPF = 120, UNLESS REQUIRED NUMBER OF ROWS EXCEEDS 8. E. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COILS F. COOLING CAPACITY BASED ON 45°F ENT. WATER W/ ΔT=15°F																												
FILTER TYPES: (SEE SPECS.) [A] 2" THICK PLEATED MERV 8 (100%) FILTERS - ANGLE FRAME & SIDE ACCESS			NOTE: FACTORY PROVIDED & INSTALLED MARINE LIGHT IN ALL ACCESS SECTIONS.																									
GENERAL NOTES: 1. MAX DISCHARGE AIR TEMP. (LEAVING UNIT) = 54.5°F.																												

AIR DEVICE LEGEND					
MARK	TYPE	LEGEND	RUNOUT	REMARKS	MFG / MODEL
ACD(X) CFM	ARCHITECTURAL SQUARE PLAQUE DIFFUSER	X = ROUND NECK SIZE 4-WAY THROW	ROUND RUNOUT = NECK SIZE		TITUS / OMNI LAY-IN BORDER
E(X) CFM/FD	ALUMINUM CUBE CORE REGISTER (1/2"X1/2"X1/2")	E = EXHAUST R = RETURN T = TRANSFER X = SQUARE NECK SIZE	SEE PLANS	OBD OMIT OBD ON T'S AND UNDUCTED R'S	TITUS / 50F, ALUMINUM BORDER
AIR DEVICE SCHEDULE NOTES					
1. CFM = AIR FLOW (TYPICAL ALL AIR DEVICES).					
2. COORDINATE BORDER/FAN TYPE WITH ARCH REFLECTED CEILING PLAN.					
3. DIRECTION ARROWS ON DRAWINGS SHOW FLOW PATTERN.					
4. USE SUPPLY DIFFUSERS WITH O.B.D. IN DRYWALL OR INACCESSIBLE CEILINGS.					
5. USE SUPPLY DIFFUSERS WITHOUT O.B.D. IN LAY-IN OR ACCESSIBLE CEILINGS.					

ONE LINE PIPE SYMBOLS

—CHS—	CHILLED WATER SUPPLY
—CHR—	CHILLED WATER RETURN
—D—	CONDENSATE DRAIN
—B—	BALL VALVE
—B1—	BUTTERFLY VALVE (LEVER HANDLE)
—B2—	BUTTERFLY VALVE (GEAR OPERATOR)
—G—	GLOBE VALVE
—C1—	CHECK VALVE (SWING CHECK)
—C2—	CHECK VALVE (BUTTERFLY CHECK)
—CB—	CALIBRATED BALANCING VALVE
—VR—	VALVE AT RISER
—SD—	STRAINER W/ DRAIN VALVE
—U—	UNION
—AT—	AIR TERMINAL / FAN COIL UNIT / HOT WATER RETURN CONTROL VALVE (2-WAY) ELECTRIC OR ELECTRONIC
—AV—	AIR TERMINAL / FAN COIL UNIT CONTROL VALVE (3-WAY) ELECTRIC OR ELECTRONIC
—CV—	CONTROL VALVE (2-WAY) ELECTRIC OR ELECTRONIC
—C3—	CONTROL VALVE (3-WAY) ELECTRIC OR ELECTRONIC

ONE LINE PIPE SYMBOLS

—E—	CONTROL VALVE (3-WAY) ELECTRIC OR ELECTRONIC
—ES—	EMERGENCY SHUT-OFF VALVE WITH FUSIBLE LINK
—FC—	FLEXIBLE PIPE CONNECTOR
—MB—	METAL BELLOWS PUMP CONNECTOR
—AV1—	AIR VENT (A - AUTO, H - HAND)
—PT—	PRESSURE AND TEMPERATURE TAP
—PG—	PRESSURE GAUGE
—PGS—	PRESSURE GAUGE W/ SIPHON
—TW—	THERMOMETER W/ INSERTION WELL
—A—	ANCHOR
—PGU—	PIPE GUIDE
—F—	FLANGE
—EU—	ELBOW, TURNED UP
—ED—	ELBOW, TURNED DOWN
—RI—	RISE OR DROP IN PIPE
—EL—	ELBOW
—TS—	TEE, SIDE CONNECTION
—TU—	TEE, OUTLET UP
—TD—	TEE, OUTLET DOWN
—CO—	CAPPED OUTLET
—CP—	CAPPED PIPE
—CR—	CONCENTRIC REDUCER
—ER—	ECCENTRIC REDUCER
—DP—	DIRECTION OF PITCH
—TFD—	PIPE TO FLOOR DRAIN
—EMS—	EMERGENCY MANAGEMENT SYSTEM INSERTION WELL

TWO LINE PIPE SYMBOLS

—E45—	ELBOW - FLANGED LONG RADIUS 45°
—E90—	ELBOW - FLANGED LONG RADIUS 90°
—E45W—	ELBOW - WELDED LONG RADIUS 45°
—E90W—	ELBOW - WELDED LONG RADIUS 90°
—EC—	END CAP
—FS—	FLANGES - SLIP ON
—FN—	FLANGES - WELD NECK
—RC—	REDUCERS - FLANGED CONCENTRIC
—RE—	REDUCERS - FLANGED ECCENTRIC
—RCW—	REDUCERS - WELDED CONCENTRIC
—REW—	REDUCERS - WELDED ECCENTRIC
—TF—	TEE - FLANGED
—TW—	TEE - WELDED
—B1L—	BUTTERFLY VALVE - LEVER OPERATOR
—B1W—	BUTTERFLY VALVE - WORM GEAR OPERATOR
—B1A—	BUTTERFLY VALVE - ACTUATOR
—C1S—	CHECK VALVE - SWING CHECK
—C1W—	CHECK VALVE - SILENT OR WAFER
—G—	GLOBE VALVE
—S—	STRAINER - Y
—FC—	FLEXIBLE CONNECTORS

DUCTWORK SYMBOLS

—T—	THERMOSTAT
—TW—	THERMOSTAT WIRING
—H—	HUMIDISTAT
—TS—	TEMPERATURE SENSOR
—FM—	GPM FLUID FLOW METER
—SA—	SUPPLY AIR DUCT
—RA—	RETURN AIR DUCT
—EA—	EXHAUST AIR DUCT
—CFM—	CUBIC FEET PER MINUTE
—EMS—	ENERGY MANAGEMENT SYSTEM
—ATC—	AUTOMATIC TEMP CONTROLS
—CO2—	CARBON DIOXIDE
—PPM—	PARTS PER MILLION
—Ø—	ROUND DIAMETER
—R—	SHORT (1x) RADIUS ELL (RECTANGULAR OR ROUND) CENTERLINE RADIUS = 1d
—L—	LONG (1.5x) RADIUS ELL (ROUND OR OVAL) CENTERLINE RADIUS = 1.5d
—S—	SQUARE ELL
—TV—	ELL WITH TURNING VANES
—ST—	STREAMLINE TAP (RECTANGULAR)
—ØST—	STREAMLINE TAP (ROUND)
—CT—	CONICAL TAP
—ST—	STRAIGHT TAP
—LT—	LATERAL TAP
—MV—	MANUAL VOLUME DAMPER
—MV—	MOTORIZED VOLUME DAMPER
—FD—	FIRE DAMPER (FD)
—VFD—	VERTICAL FIRE DAMPER (FD)
—S—	SMOKE DAMPER
—S—	COMBINATION FIRE / SMOKE DAMPER (FD/S)
—R—	RECTANGULAR DUCT (WIDTH/DEPTH)
—RO—	ROUND DUCT OFFSET
—RISE—	CHANGE IN ELEVATION ("R"-RISE, "F"-FALL)
—FDIS—	FLEXIBLE DUCT
—SDU—	SUPPLY DUCT UP
—RDU—	RETURN DUCT UP
—EDU—	EXHAUST DUCT UP
—SDD—	SUPPLY DUCT DOWN
—RDD—	RETURN DUCT DOWN
—EDD—	EXHAUST DUCT DOWN
—CD—	CEILING DIFFUSER
—RAG—	RETURN AIR GRILLE
—EAG—	EXHAUST AIR GRILLE
—AP—	ACCESS PANEL
—AP—	ACCESS PANEL IN ROUND OR OVAL DUCT



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SCHEDULES AND LEGEND - HVAC
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AIR COOLED CHILLER SCHEDULE

MARK	TYPE	REFRIGERANT TYPE	TONS	COOLER				AMBIENT (°F)	EFFICIENCY		ACCESSORIES	ELECTRICAL			BASIS OF DESIGN (TRANE)	
				DESIGN GPM	MIN GPM	LVG *F	MAX. DP (FT)		FOULING	IPLV		EER	V/Ø	MCA		RECOMMENDED FUSE
CH-1	[A]	R-454B	130	201.8	176	45	9.5	0.0001	95	16.66	10.59	[1][2][3][4][5][6][7][8][9][10][11][12][13][14][15][16][17][18]	460/3	280	350	CGAM130

TYPES:
[A] SCROLL COMPRESSOR

ACCESSORIES:
[1] UNIT MOUNTED HIGH FAULT CIRCUIT BREAKER WITH SCCR OF 65,000 (UL RATED)
[2] CONDENSER COIL GUARD
[3] ARCHITECTURAL LOUVERED PANELS
[4] CONTROL POWER TRANSFORMER
[5] LOW AMBIENT CONTROL TO 0°F
[6] EVAPORATOR AND HYDRONIC PACKAGE FREEZE PROTECTION WITH SEPARATE 20 AMP, 115V/1 PH POWER CONNECTION.
[7] ACROSS THE LINE STARTER
[8] SINGLE POINT POWER CONNECTION
[9] SUCTION AND DISCHARGE SERVICE VALVES
[10] FACTORY INSTALLED FLOW SWITCH

NOTES:
1. MINIMUM EFFICIENCY AT AHRI 550/590 CONDITIONS
2. FLUID IS WATER
3. PROVIDE MINIMUM OF 4 STEPS UNLOADING
4. PROVIDE INLET STRAINER WITH GROOVED FITTING FOR CHILLERS WITH PLATE AND FRAME EVAPORATORS
5. COOLING CAPACITY BASED ON ΔT = 15°F.
6. MAX ΔP INCLUDES STRAINER

[11] MAX SCHEDULED SOUND VALUES (MAX SOUND POWER = 92 dBA; MAX SOUND PRESSURE = 65 dBA) AT 30 FEET IN FREE FIELD.
[12] ELASTOMERIC ISOLATORS
[13] SOUND PACKAGE: COMPRESSOR BLANKETS & LOW SOUND CONDENSER FANS.
[14] PHASE REVERSAL PROTECTION
[15] WARRANTY: 5 YEAR ENTIRE UNITS; PARTS, LABOR & REFRIGERANT.
[16] BACNET COMMUNICATIONS CARD - COORDINATE REQUIREMENT W/ BAS CONTRACTOR.
[17] FACTORY MOUNTED VARIABLE SPEED DUAL PUMP PACKAGE. PACKAGE INCLUDES DUAL HIGH HEAD 15.0 hp PUMPS, STRAINER, EXPANSION TANK AND VARIABLE SPEED DRIVE WITH CONTROL PANEL; ALL FACTORY WIRED. SEE PUMP SCHEDULE FOR ADDITIONAL PUMP INFORMATION.
[18] BUFFER TANK. 195 GALLONS.

MINI SPLIT SYSTEM UNIT SCHEDULE - HEAT PUMP

INDOOR UNIT MARK	OUTDOOR UNIT MARK	SERVES	TYPE	SUPPLY FAN CFM	COOLING CAPACITY				HEATING CAPACITY		ACCESSORIES	NOMINAL TONS	MAXIMUM REFRIGERANT PIPING LENGTH (FT)	ELECTRICAL					BASIS OF DESIGN (MITSUBISHI) (INDOOR/OUTDOOR)
					SENSIBLE MBH	TOTAL MBH	ENT. AIR		MBH	ENT. AIR °F				INDOOR UNIT		OUTDOOR UNIT			
							*Fdb	*Fwb						FLA	VOLT V/Ø	MCA	MOCP	VOLT V/Ø	
DS-1	DSHP-1	IDF 151B	[A]	385	12	12	80.0	67.0	13.6	70	[1][3][4][5][6]	1.0	70	0.19	208/1	11	28	208/1	PKA-A12LA / PUZ-A12NKA7
DS-2	DSHP-2	ELEC 151A	[A]	385	12	12	80.0	67.0	13.6	70	[1][3][4][5][6]	1.0	65	0.19	208/1	11	28	208/1	PKA-A12LA / PUZ-A12NKA7
DS-3	DSHP-3	ELEC 305	[A]	455	13.1	18.0	80.0	67.0	13.6	70	[1][3][4][5][6]	1.5	140	0.19	208/1	11	15	208/1	PKA-A18LA / PUZ-A18NKA7
DS-4	DSHP-4	SERVER 306	[D]	775	18.5	24	80.0	67.0	13.6	70	[1][3][4][5][6]	2.0	140	0.19	208/1	17	25	208/1	PKA-A24KA7 / PUZ-HA24NHA1
DS-5	DSHP-5	ELEC 314	[D]	455	13.1	18.0	80.0	67.0	13.6	70	[1][3][4][5][6]	1.5	85	0.19	208/1	11	15	208/1	PKA-A18LA / PUZ-A18NKA7
DS-6	DSHP-6	IDF 245	[D]	455	13.1	18.0	80.0	67.0	13.6	70	[1][3][4][5][6]	1.5	105	0.19	208/1	11	15	208/1	PKA-A18LA / PUZ-A18NKA7

TYPES:
[A] WALL MOUNTED (PKA TYPE)

ACCESSORIES:
[1] MICROPROCESSOR BASED CONTROLS W/ HARDWIRED REMOTE CONTROLLER
[2] 4-WAY AIRFLOW CONTROL
[3] CONDENSATE PUMP TO RAISE DRAIN WATER 20 INCHES ABOVE CEILING WITH SAFETY SWITCH TO SHUTDOWN UNIT ON HIGH LEVEL.
[4] WASHABLE FILTER
[5] WIND BAFFLE FOR LOW AMBIENT COOLING TO 10 DEGREE F.
[6] EMERGENCY POWER

NOTES:
A. CAPACITIES ARE MINIMUM NET CAPACITIES
B. COOLING: CAPACITY RATED AT 95°F AMBIENT.
C. HEATING CAPACITY RATED AT 17°F AMBIENT.
D. INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD SUPPLIED INTERCONNECTING WIRING.
E. MINIMUM SEER = 14.0 AT AHRI 210/240 CONDITIONS

EXPANSION TANK SCHEDULE

MARK	SYSTEM	TYPE	FILL PRESSURE (PSIG)	MINIMUM ACCEPTANCE VOL. (GALLONS)	MINIMUM TANK VOL. (GALLONS)	ACCESSORIES	BASIS OF DESIGN (TACO)
ET-CH	CHILLED WATER	[A]	15	12	22	[1]	CBX84-125

TYPES:
[A] VERTICAL, BLADDER

ACCESSORIES:
[1] REMOVABLE BLADDER

ELECTRIC HEATER SCHEDULE

MARK	SERVES	TYPE	CAPACITY	ELECTRICAL V/Ø	ACCESSORIES	REMARKS	BASIS OF DESIGN (MARKEL)
EWH-1	FR 1043	A	2.0 KW	208/1	[1][3][5][6]	SURFACE MOUNTED	3400
ECH-1	VESTIBULE 1000	B	3.0 KW	208/1	[2][3][4]	CEILING RECESSED	3480

TYPES:
A. EWH - ELECTRIC WALL HEATER
B. ECH - ELECTRIC CEILING HEATER

ACCESSORIES:
[1] UNIT MOUNTED THERMOSTAT (EXPOSED KNOB)
[2] WALL MOUNTED LOW VOLTAGE THERMOSTAT IN METAL LOCKING COVER
[3] UNIT MOUNTED DISCONNECT SWITCH
[4] STANDARD RADIAL DIFFUSER
[5] WALL BRACKET
[6] ADJUSTABLE OUTLET LOUVERS

LOUVER SCHEDULE

MARK	TYPE	WIDTH	HEIGHT	DEPTH	ACCESSORIES	FINISH	BASIS OF DESIGN (GREENHECK)
L-1	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-2	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-3	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-4	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-5	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-6	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-7	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-8	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-9	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-10	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-11	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-12	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-13	A	96"	24"	24"	[1][2][3]	A	ESD-603
L-14	A	96"	24"	24"	[1][2][3]	A	ESD-603

TYPES:
[A] FIXED BLADE LOUVER (ESD-603)

ACCESSORIES:
[1] FORMED ALUMINUM EXTENDED SILL
[2] CHANNEL FRAME
[3] BIRDSCREEN, ALUMINUM

FINISH:
A. KYNAR 500-3 COAT

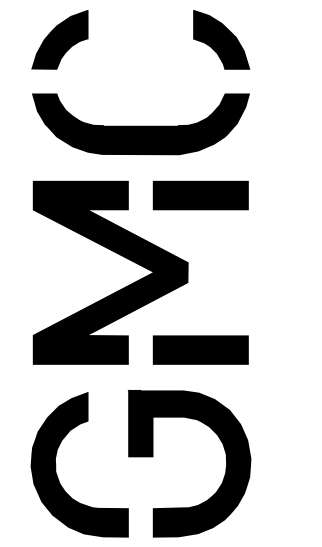
NOTES:
1. ALUMINUM ALL WELDED CONSTRUCTION.
2. COLOR SELECTED BY ARCHITECT FROM FACTORY STANDARD/CUSTOM COLORS.
3. OTHER ACCEPTABLE MANUFACTURERS: RUSKIN, AIROLITE.

AIR TERMINAL UNIT SCHEDULE - ELECTRIC HEAT


MARK	TYPE	ROUND INLET	AIR FLOW (CFM)				ELECTRIC HEAT	
			COOL MAX.	BOX MIN.	HTG. MAX CFM	KW	STAGES	ELECTRICAL V/Ø
TU1-1	VVR	12	1130	395	585	4	SCR	277/1
TU1-2	VVR	10	910	320	685	9	SCR	460/3
TU1-3	VVR	10	660	230	495	6	SCR	277/1
TU1-4	VVR	10	850	300	425	3	SCR	277/1
TU1-5	VVR	10	910	320	685	9	SCR	460/3
TU1-6	VVR	8	380	145	190	2	SCR	277/1
TU1-7	VVR	10	680	230	340	3	SCR	277/1
TU1-8	VVR	12	1105	385	555	4	SCR	277/1
TU1-9	VVR	12	1200	420	600	5	SCR	277/1
TU1-10	VVR	10	650	230	325	3	SCR	277/1
TU1-11	VVR	10	810	285	610	8	SCR	460/3
TU1-12	VVR	10	820	285	615	8	SCR	460/3
TU1-13	VVR	10	760	230	570	7	SCR	460/3
TU1-14	VVR	10	910	320	685	9	SCR	460/3
TU1-15	VVR	10	910	400	685	9	SCR	460/3
TU1-16	VVR	10	800	280	400	3	SCR	277/1
TU1-17	VVR	10	810	285	610	8	SCR	460/3
TU1-18	VVR	8	500	175	375	5	SCR	277/1
TU1-19	VVR	14	1900	800	1425	18	SCR	460/3
TU1-20	VVR	12	1440	505	1080	14	SCR	460/3
TU1-21	VVR	12	1300	455	975	12	SCR	460/3
TU1-22	VVR	8	500	175	375	5	SCR	277/1
TU1-23	VVR	12	1200	420	900	11	SCR	460/3
TU1-24	VVR	10	925	325	695	9	SCR	460/3
TU1-25	VVR	10	680	230	510	6	SCR	277/1
TU1-26	VVR	10	945	330	710	9	SCR	460/3
TU1-27	VVR	8	550	225	415	5	SCR	277/1
TU1-28	VVR	8	600	210	450	6	SCR	277/1
TU1-29	VVR	10	840	295	630	8	SCR	460/3
TU1-30	VVR	10	960	335	720	9	SCR	460/3
TU1-31	VVR	8	430	145	325	4	SCR	277/1
TU1-32	VVR	10	800	280	600	8	SCR	460/3
TU1-33	VVR	10	960	335	720	9	SCR	460/3
TU1-34	VVR	10	910	320	685	9	SCR	460/3
TU1-35	VVR	10	720	230	540	7	SCR	460/3
TU1-36	VVR	10	780	275	585	7	SCR	460/3
TU1-37	VVR	10	610	230	460	6	SCR	277/1
TU1-38	VVR	10	1010	355	760	10	SCR	460/3
TU1-39	VVR	10	910	320	685	9	SCR	460/3
TU1-40	VVR	8	540	190	405	5	SCR	277/1
TU1-41	VVR	8	570	200	430	5	SCR	277/1
TU1-42	VVR	10	920	320	690	9	SCR	460/3
TU1-43	VVR	10	680	230	510	6	SCR	277/1
TU1-44	VVR	10	780	275	585	7	SCR	460/3
TU1-45	VVR	10	910	320	685	9	SCR	460/3
TU1-46	VVR	10	1060	370	795	10	SCR	460/3
TU1-47	VVR	12	1200	350	900	11	SCR	460/3
TU1-48	VVR	12	1200	350	900	11	SCR	460/3
TU1-49	VVR	12	1200	350	900	11	SCR	460/3
TU1-50	VVR	12	1200	350	900	11	SCR	460/3

LEGEND:
SINGLE DUCT TERMINAL UNITS:
VV = VARIABLE VOLUME - NO COIL
VVR = VARIABLE VOLUME REHEAT
N/A = NOT APPLICABLE

NOTES:
1. ENTERING AIR = 55°F
2. ALL BOXES CLOSED CELL (FIBER FREE) LINING.
3. PROVIDE ACCESS DOOR FOR MAINTENANCE.
4. ROUND RUNOUT EQUALS NECK SIZE U.N.O. ON PLANS.
5. HEATING KW IS AT MAXIMUM HEATING AIR FLOW.
6. BASIS OF DESIGN: TITUS ESV FOR SINGLE DUCT UNITS.
7. ALL BOXES SHALL BE UL LISTED AND LABELED.
8. MAXIMUM AIR PRESSURE DROP (INCLUDING COIL) = 0.4" W.C.



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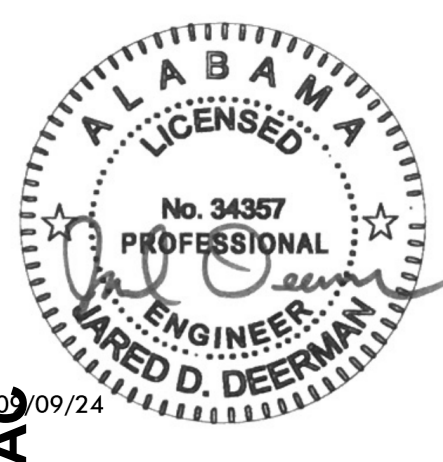
ISSUE DATE: 100% CD 2024.09.09

DRAWN BY: CBO
CHECKED BY: JDD

SCHEDULES - HVAC

TUSCALOOSA COUNTY DHR
PROJECT ADDRESS

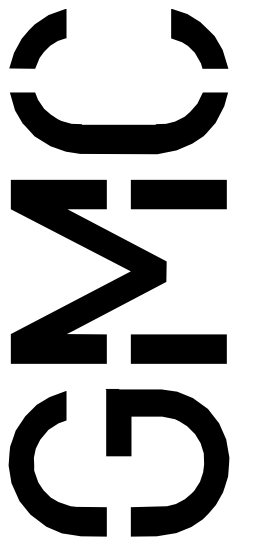
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OSA CALCULATIONS PER IMC 2021 & ASHRAE 62.1- 2016 (AHU-1)

Table with columns: ZONE IDENTIFICATION, ASHRAE STANDARD 62.1-2007 VENTILATION RATE PROCEDURE, DESIGN CASE. Includes sub-columns for Terminal Unit, Room Name, Occupancy Category, Area, Outdoor Rate, Area Outdoor Rate, # Occupants, Rp, Area*Ra, Breathing Zone, Table 6-2 Zone Air Distribution Effectiveness, Zone Effectiveness, Zone Outdoor Airflow, Maximum Primary Airflow, Min. Zone Primary Airflow, Zone Primary Outdoor Air Fraction.



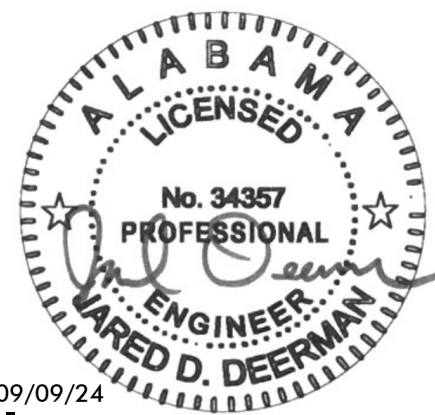
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Table with columns: ISSUE DATE, 100% CD, 2024.09.09, DRAWN BY: Author, CHECKED BY: Checker

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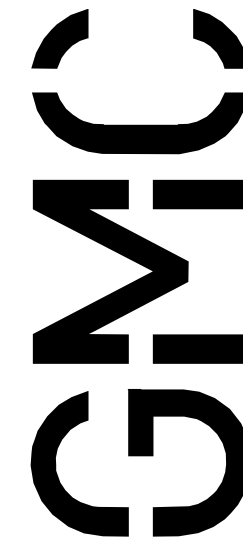


OSA SCHEDULES -
HVAC

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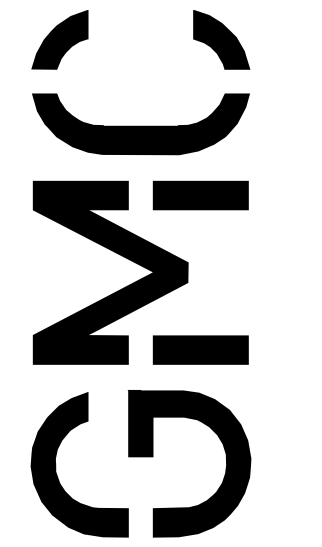
TU1-13	OFFICE 1022	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.33
	OFFICE 1024	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.33
	OFFICE 1026	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.33
	OFFICE 1014	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.33
	OFFICE 1012	Office space	102	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.32
	OFFICE 1010	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	33	0.33
	CORRIDOR	Corridors	200	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	100	30	0.50
TU1-14	OFFICE 1034	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1032	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1030	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1021	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1023	Office space	102	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1025	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	CORRIDOR	Corridors	130	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	125	44	0.22
	CORRIDOR	Corridors	200	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	125	44	0.34
TU1-15	OFFICE 1039	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	OFFICE 1040	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	OFFICE 1041	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	OFFICE 1035	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	OFFICE 1033	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	OFFICE 1031	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	48	0.23
	CORRIDOR	Corridors	130	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	125	55	0.18
	CORRIDOR	Corridors	200	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	125	55	0.27
TU1-16	OFFICE 1015	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	200	70	0.16
	OFFICE 1013	Office space	111	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.17
	OFFICE 1011	Office space	111	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.17
	OFFICE 1009	Office space	111	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.17
TU1-17	OFFICE 1008	Office space	176	5	0.06	1	4.5	11	15	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	19	330	116	0.16
	OFFICE 1006	Office space	141	5	0.06	1	3.5	8	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	180	63	0.24
	OFFICE 1005	Office space	220	5	0.06	1	5.5	13	19	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	23	300	106	0.22
TU1-18	OFFICE 1029	Office space	89	5	0.06	0	2	5	7	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	9	100	35	0.26
	OFFICE 1028	Office space	90	5	0.06	1	2.5	5	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	100	35	0.28
	OFFICE 1027	Office space	90	5	0.06	1	2.5	5	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	100	35	0.28
	WORKROOM 1007	Office space	122	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	13	100	35	0.37
	CORRIDOR	Corridors	212	0	0.06	0	0	13	13	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	16	100	35	0.45
TU1-19	TRAINING 1003	Auditorium seating area	1028	5	0.06	70	350	62	412	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	515	1900	800	0.64
TU1-20	BREAK 1102	Office space	1018	5	0.06	30	150	61	211	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	264	1300	456	0.58
TU1-21	CENTRAL FILE 1203	Storage Rooms	1577	0	0.12	0	0	189	189	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	237	1100	385	0.61
	CH FILE 1204	Storage Rooms	64	0	0.12	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	50	18	0.55
	CS/CAN FILE 1205	Storage Rooms	231	0	0.12	0	0	28	28	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	35	150	53	0.66
TU1-22	STORAGE 1004	Storage Rooms	66	0	0.12	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	75	26	0.38
	CORRIDOR 1002	Corridors	222	0	0.06	0	0	13	13	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	100	35	0.48
	CORRIDOR	Corridors	161	0	0.06	0	0	10	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	100	35	0.35
TU1-23	LOBBY 1001	Office space	1015	5	0.06	15	75	61	136	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	170	900	315	0.54
	VESTIBULE 1000	Corridors	134	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	300	105	0.10
TU1-24	MAIL 1202	Storage Rooms	252	0	0.12	0	0	30	30	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	38	200	70	0.54
	CLERICAL/MAIL 1200	Office space	258	5	0.06	1	6.5	15	22	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	27	200	70	0.39
	CS 1201	Office space	126	5	0.06	1	3	8	11	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	13	100	35	0.38
	OFFICE 1191	Office space	185	5	0.06	1	4.5	11	16	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	20	175	61	0.32
	INTAKE 1196	Office space	169	5	0.06	1	4	10	14	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	18	150	53	0.34
TU1-25	BOARD 1103	Conference / meeting	533	5	0.06	14	70	32	102	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	127	680	230	0.55
TU1-26	STORAGE 1105	Storage Rooms	45	0	0.12	0	0	5	5	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	7	30	10	0.64
	STORAGE 1110	Storage Rooms	45	0	0.12	0	0	5	5	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	7	30	10	0.64
	STORAGE 1206A	Storage Rooms	34	0	0.12	0	0	4	4	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	5	30	10	0.49
	OFFICE 1109	Office space	161	5	0.06	1	4	10	14	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	140	49	0.35
	OFFICE 1159	Office space	140	5	0.06	1	3.5	8	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	120	42	0.35
	WORKROOM 1160	Office space	122	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	13	120	42	0.31
	CORRIDOR	Corridors	156	0	0.06	0	0	9	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	100	35	0.34
	CORRIDOR	Corridors	265	0	0.06	0	0	16	16	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	20	100	35	0.57
TU1-27	MEETING 1189	Conference / meeting	435	5	0.06	12	60	26	86	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	108	450	184	0.58
	CORRIDOR	Corridors	156	0	0.06	0	0	9	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	100	41	0.29
TU1-28	ISP MTG 1197	Conference / meeting	392	5	0.06	10	50	24	74	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	92	600	210	0.44




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TU1-29	OFFICE 1195	Office space	246	5	0.06	1	6	15	21	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	26	350	123	0.21
	OFFICE 1194	Office space	135	5	0.06	1	3.5	8	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	175	61	0.24
	OFFICE 1180	Office space	177	5	0.06	1	4.5	11	15	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	19	315	111	0.17
TU1-30	OFFICE 1188	Office space	113	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	38	0.32
	OFFICE 1187	Office space	116	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	38	0.32
	OFFICE 1190	Office space	108	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.29
	OFFICE 1185	Office space	116	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	38	0.32
	OFFICE 1192	Office space	113	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	38	0.32
	OFFICE 1183	Office space	116	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	38	0.32
	CORRIDOR	Corridors	185	0	0.06	0	0	11	11	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	14	100	35	0.40
	CORRIDOR	Corridors	220	0	0.06	0	0	13	13	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	100	35	0.47
	CORRIDOR	Corridors	133	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	100	35	0.29
TU1-31	WORKROOM 1181	Office space	105	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	100	34	0.33
	OFFICE 1182	Office space	116	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	37	0.34
	OFFICE 1184	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	37	0.33
	OFFICE 1186	Office space	116	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	37	0.34
TU1-32	OFFICE 1179	Office space	112	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.17
	OFFICE 1177	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.18
	OFFICE 1175	Office space	112	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	200	70	0.17
	OFFICE 1173	Office space	108	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	200	70	0.16
TU1-33	OFFICE 1168	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	OFFICE 1166	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	OFFICE 1164	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	OFFICE 1178	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	OFFICE 1176	Office space	103	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	OFFICE 1174	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	38	0.28
	CORRIDOR	Corridors	201	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	100	35	0.43
	CORRIDOR	Corridors	247	0	0.06	0	0	15	15	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	19	100	35	0.53
	CORRIDOR	Corridors	178	0	0.06	0	0	11	11	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	13	100	35	0.38
TU1-34	OFFICE 1158	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1156	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1154	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1167	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1165	Office space	101	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1163	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	CORRIDOR	Corridors	129	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	125	44	0.22
	CORRIDOR	Corridors	200	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	125	44	0.34
TU1-35	OFFICE 1151	Office space	157	5	0.06	1	4	9	13	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	200	64	0.26
	OFFICE 1152	Office space	113	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	51	0.24
	OFFICE 1161	Office space	161	5	0.06	1	4	10	14	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	160	51	0.33
	OFFICE 1162	Office space	161	5	0.06	1	4	10	14	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	200	64	0.27
TU1-36	OFFICE 1169	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	56	0.22
	OFFICE 1170	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	56	0.22
	OFFICE 1171	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	56	0.22
	OFFICE 1172	Office space	189	5	0.06	1	4.5	11	16	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	20	300	106	0.19
TU1-37	DIRECTOR'S OFFICE 1106	Office space	383	5	0.06	2	9.5	23	32	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	41	550	207	0.20
	STORAGE 1107	Office space	42	5	0.06	0	1	3	4	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	4	30	11	0.39
TU1-38	OFFICE 1112	Office space	106	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.29
	OFFICE 1114	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1116	Office space	106	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.29
	OFFICE 1157	Office space	106	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.29
	OFFICE 1155	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1153	Office space	106	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.29
	CORRIDOR	Corridors	130	0	0.06	0	0	8	8	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	10	100	35	0.28
	CORRIDOR	Corridors	150	0	0.06	0	0	9	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	125	44	0.26
	CORRIDOR	Corridors	150	0	0.06	0	0	9	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	125	44	0.26
TU1-39	OFFICE 1119	Office space	111	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	39	0.31
	OFFICE 1121	Office space	110	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	39	0.31
	OFFICE 1123	Office space	111	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	110	39	0.31
	OFFICE 1111	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1113	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	OFFICE 1115	Office space	104	5	0.06	1	2.5	6	9	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	11	110	39	0.28
	CORRIDOR	Corridors	260	0	0.06	0	0	16	16	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	20	125	44	0.44
	CORRIDOR	Corridors	201	0	0.06	0	0	12	12	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	15	125	44	0.34
TU1-40	OFFICE 1126	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	56	0.22
	OFFICE 1125	Office space	112	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	160	56	0.22
	FINANCIAL 1117	Office space	162	5	0.06	1	4	10	14	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	17	220	77	0.22
TU1-41	OFFICE 1147	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	185	65	0.19
	OFFICE 1148	Office space	173	5	0.06	1	4.5	10	15	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	19	200	70	0.27
	OFFICE 1149	Office space	114	5	0.06	1	3	7	10	Ceiling Supply of Warm Air 15°F or more above space temperature and Ceiling Return	0.8	12	185	65	0.19



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PROJECT ADDRESS

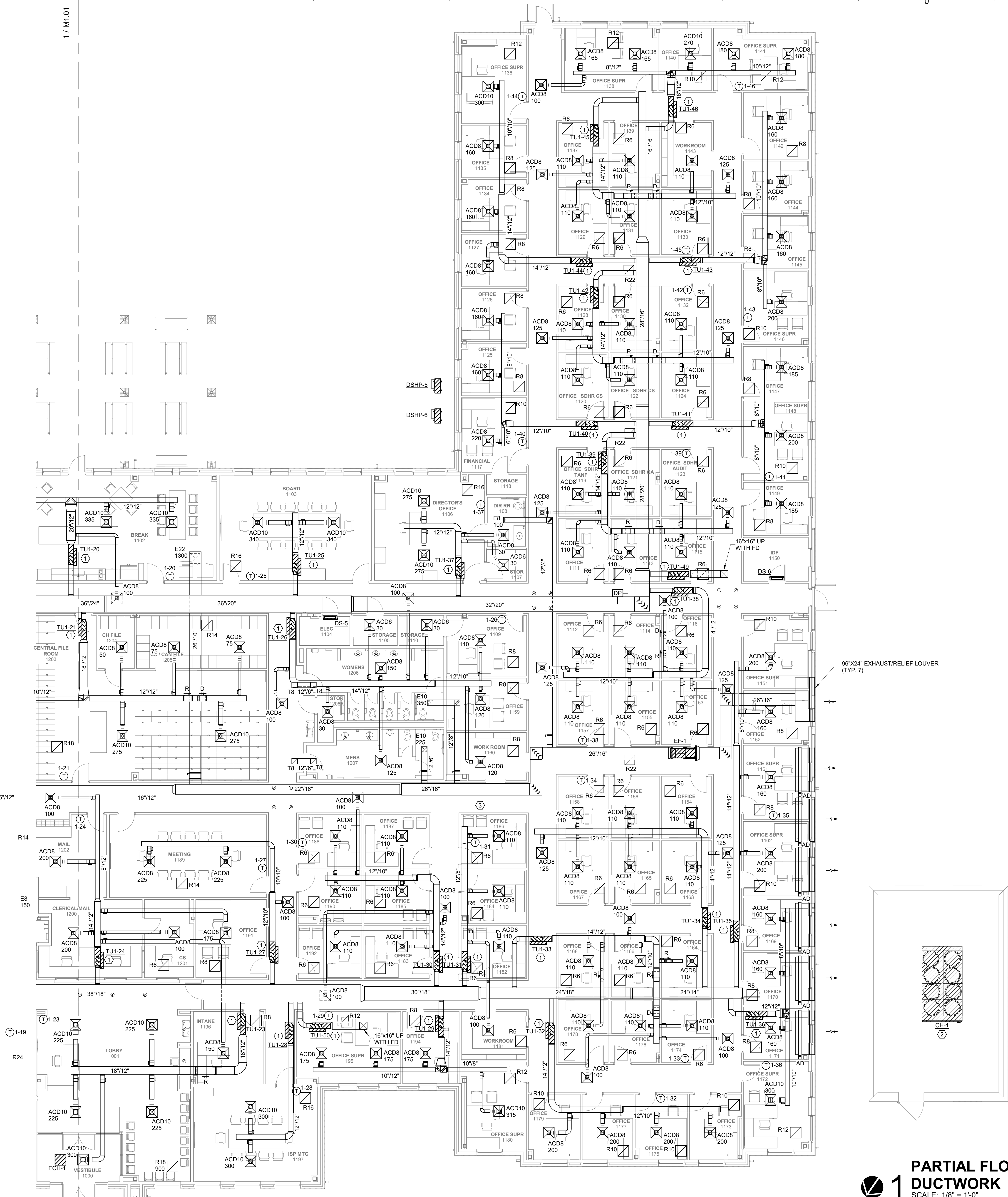
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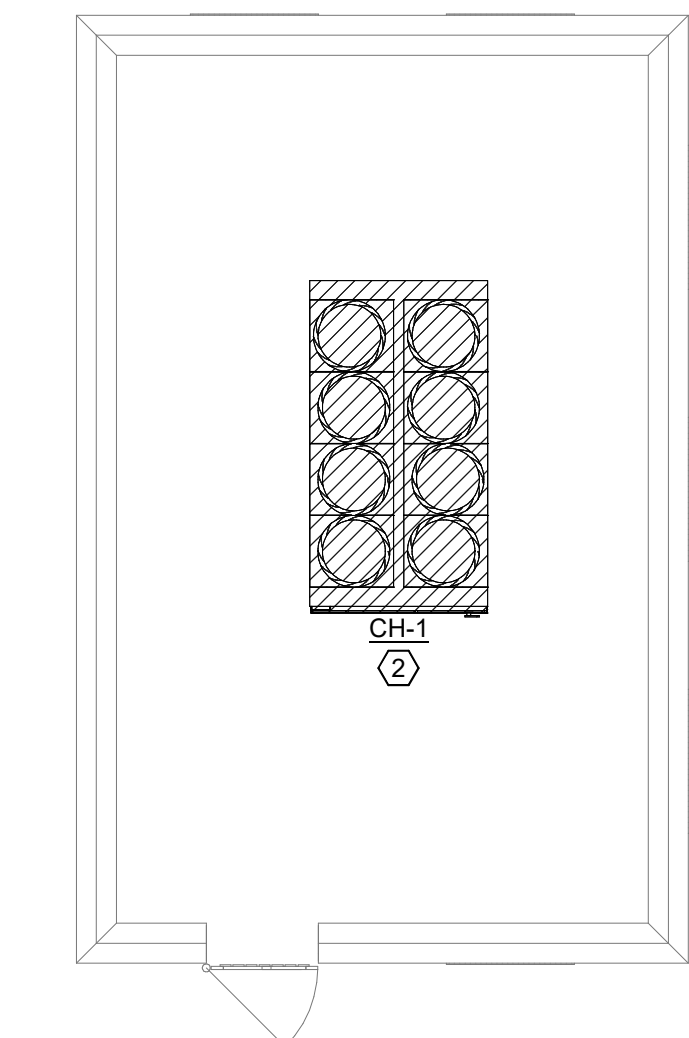
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OSA SCHEDULES - HVAC

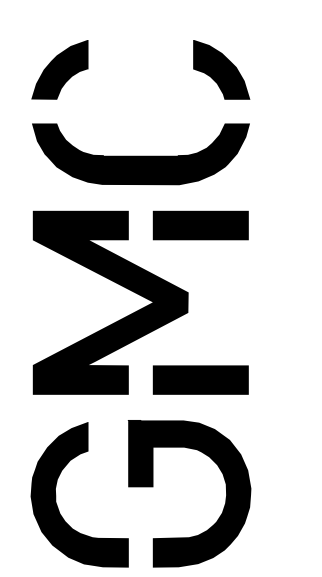
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- KEYED NOTES:**
- ① PROVIDE A MINIMUM CLEARANCE OF 3'-0" FOR MAINTENANCE ACCESSIBILITY AND ELECTRICAL CLEARANCE PER THE NATIONAL ELECTRICAL CODE.
 - ② MAINTAIN A MINIMUM CLEARANCE OF 4'-0" IN FRONT OF CHILLER CONTROL PANEL.
 - ③ INDOOR BUILDING PRESSURE PICKUP LOCATION.



1 PARTIAL FLOOR PLAN B LEVEL 1 - HVAC DUCTWORK
 SCALE: 1/8" = 1'-0"
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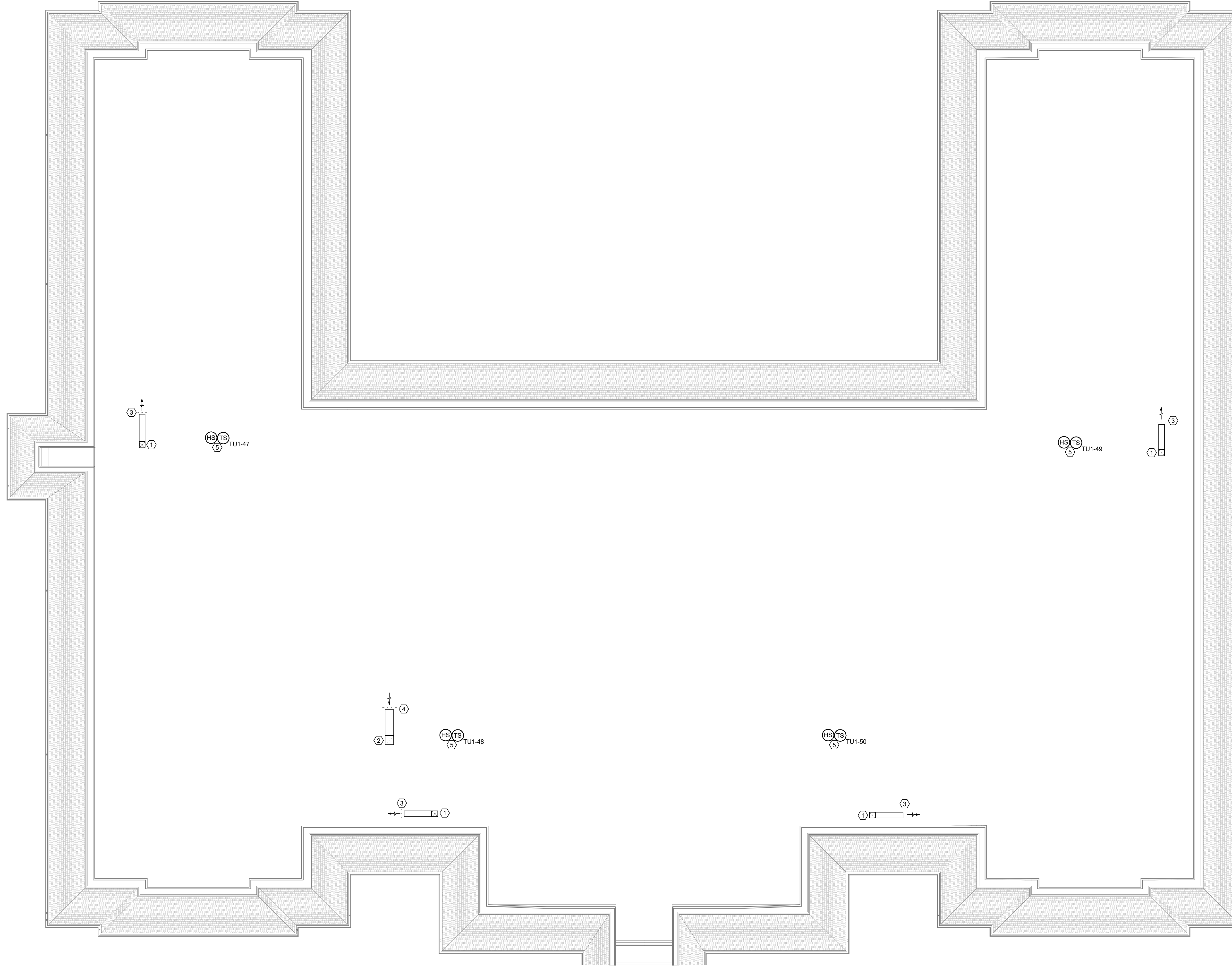
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PARTIAL FLOOR PLAN B LEVEL 1 - HVAC DUCTWORK

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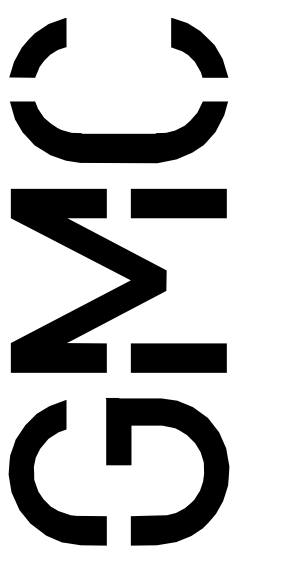


KEYED NOTES:

- ① 16"16" SA DOWN WITH FD
- ② 24"24" RA DOWN WITH FD
- ③ 16"16" OPENING. COVER WITH BIRDSCREEN.
- ④ 36"24" OPENING. COVER WITH BIRDSCREEN.
- ⑤ MOUNT REMOTE TEMPERATURE SENSOR TO ROOF TRUSS. LOCATE THERMOSTAT IN MECHANICAL ROOM 1086.



1 OVERALL ATTIC PLAN - HVAC
 SCALE: 3/32" = 1'-0"



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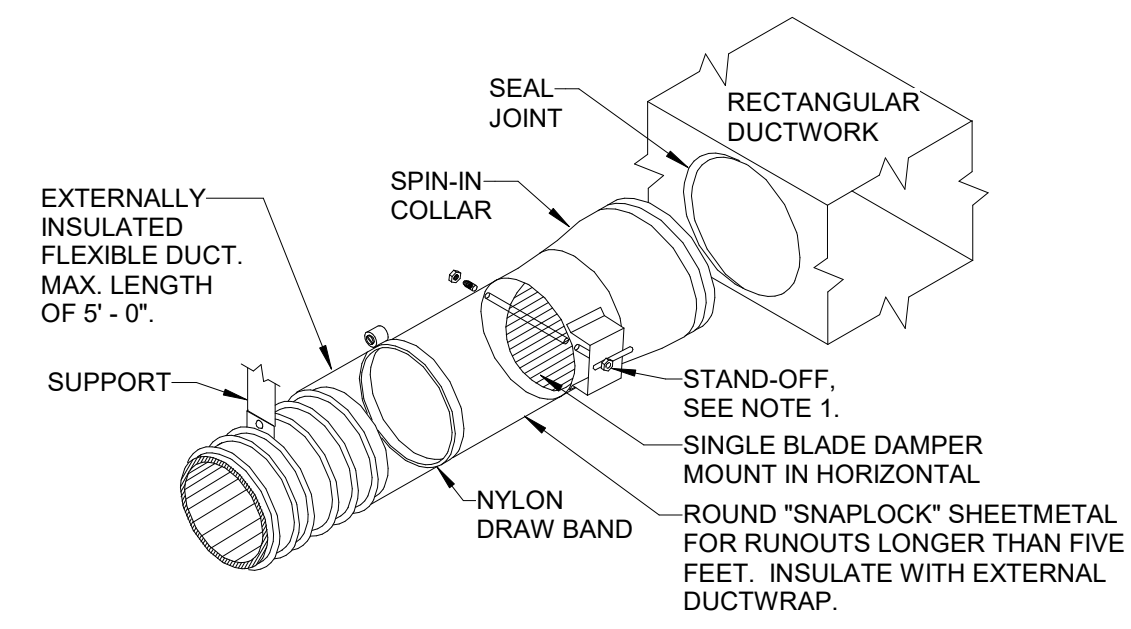
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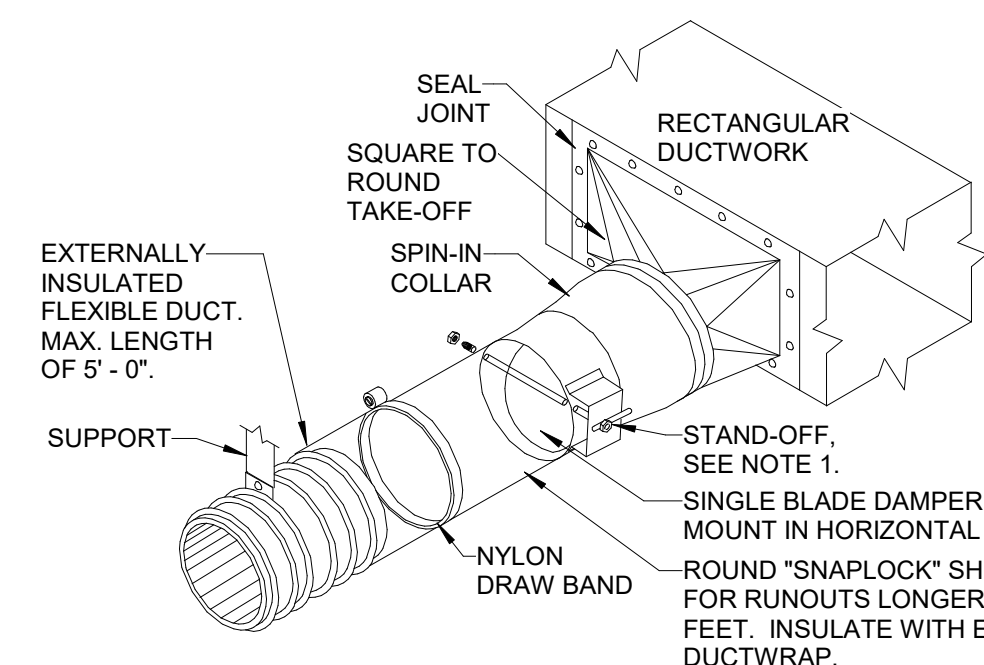
OVERALL ATTIC
 PLAN - HVAC

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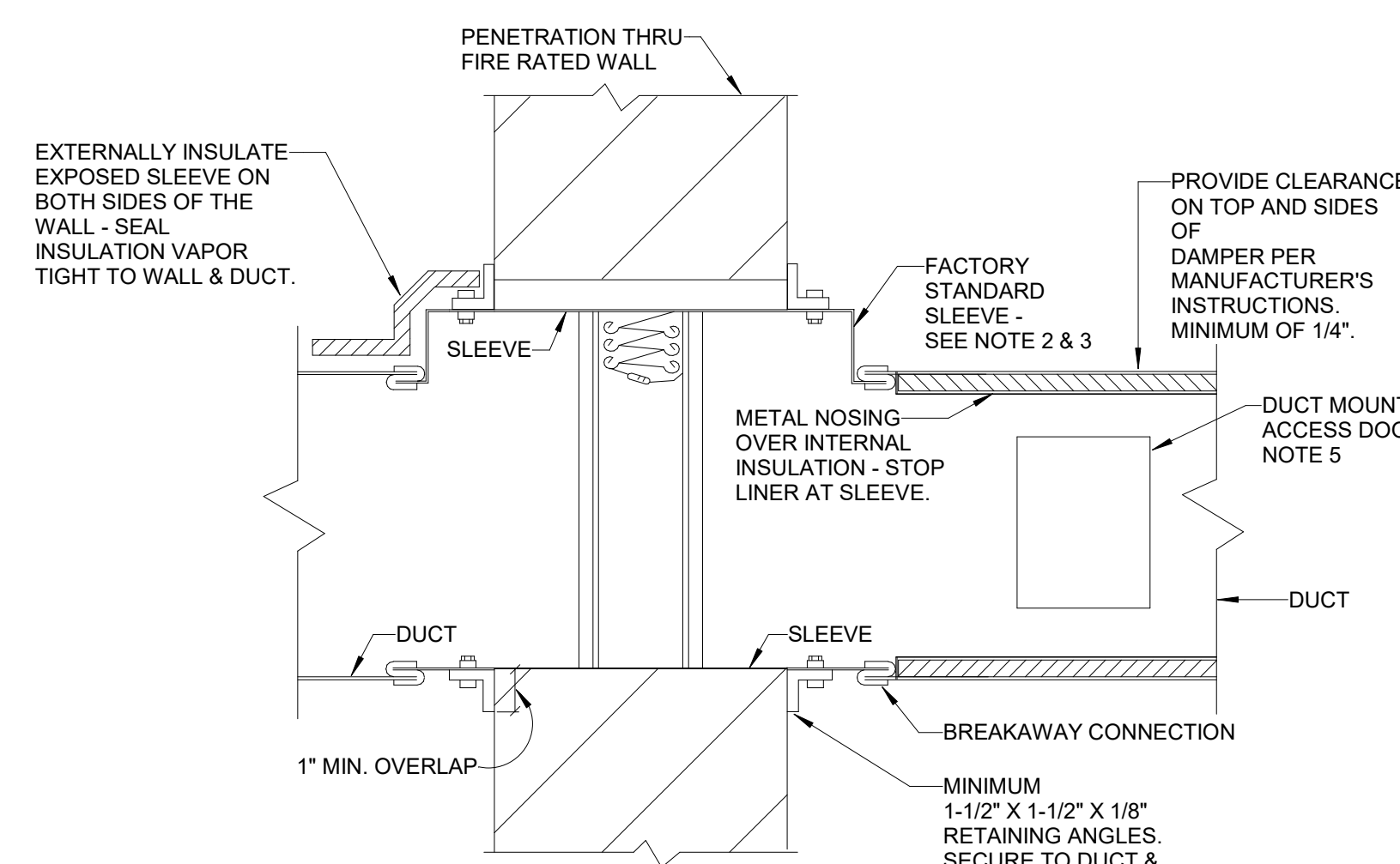
- NOTES:**
1. PROVIDE STAND-OFF AND EXTENSION ROD TO ACCOMMODATE INSULATION.
 2. INSULATE SPIN-IN WITH EXTERNAL DUCT WRAP. SLIT INSULATION AT DAMPER RODS. SEAL JOINTS VAPOR TIGHT WITH MASTIC.
 3. SEAL ALL JOINTS TO PREVENT LEAKAGE.
 4. ALLOWABLE FOR SUPPLY BRANCH DUCTWORK ONLY.

1 LOW PRESSURE ROUND BRANCH DUCT CONNECTOR DETAIL
SCALE: NOT TO SCALE:



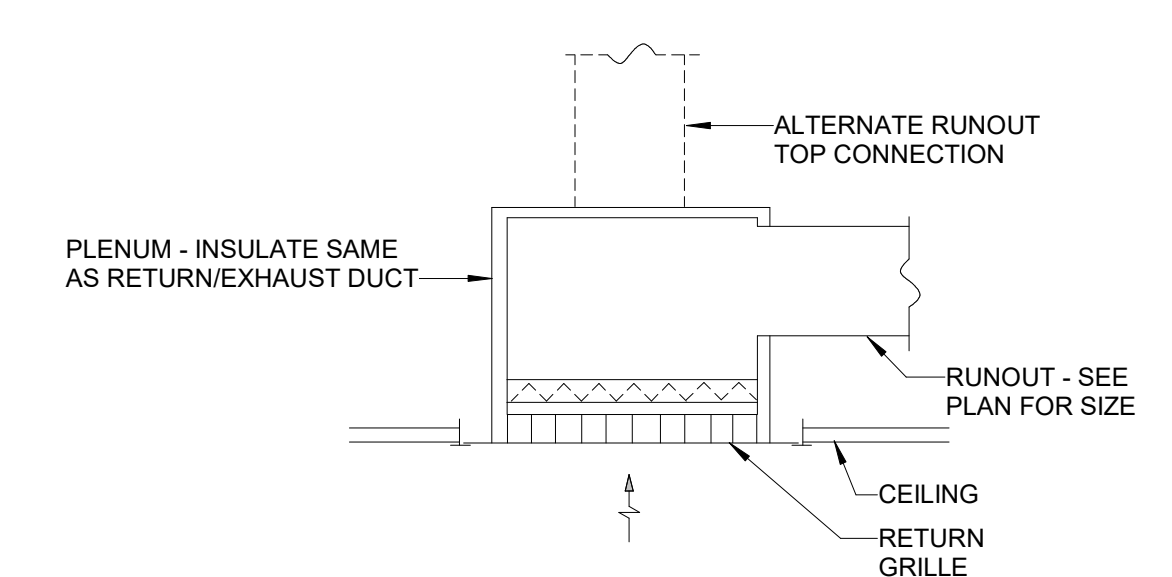
- NOTES:**
1. PROVIDE STAND-OFF AND EXTENSION ROD TO ACCOMMODATE INSULATION.
 2. INSULATE SPIN-IN WITH EXTERNAL DUCT WRAP. SLIT INSULATION AT DAMPER RODS. SEAL JOINTS VAPOR TIGHT WITH MASTIC.
 3. SEAL ALL JOINTS TO PREVENT LEAKAGE.
 4. ALLOWABLE FOR SUPPLY BRANCH DUCTWORK ONLY.

6 LOW PRESSURE ROUND BRANCH DUCT CONNECTOR DETAIL
SCALE: NOT TO SCALE:



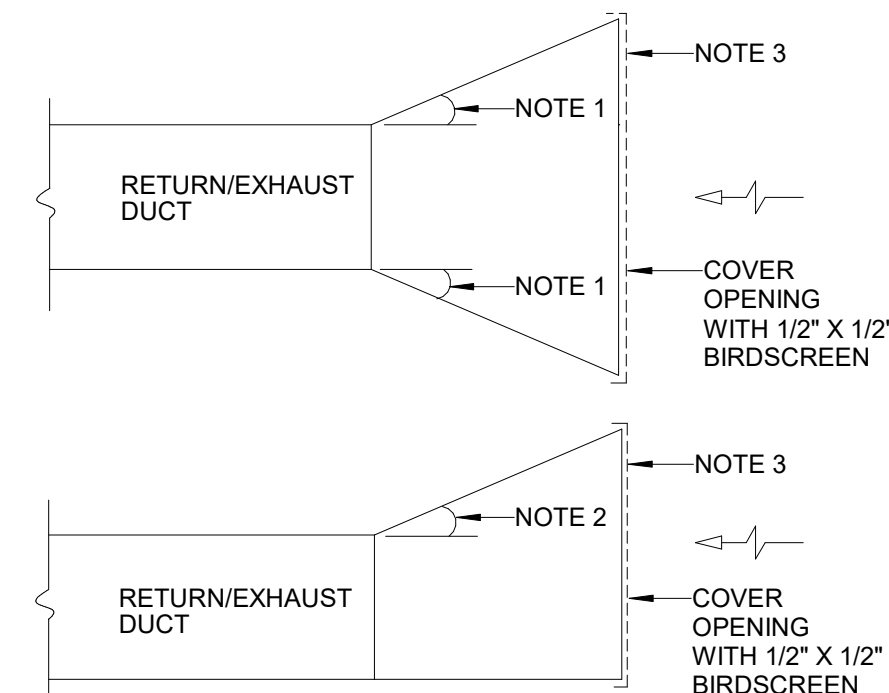
- NOTES:**
1. BASIS OF DESIGN - RUSKIN IBD20
 2. SLEEVE LENGTH TO BE MIN. OF 7" LONGER THAN DEPTH OF WALL.
 3. PROVIDE TYPE B FRAME ON RECTANGULAR DUCT AND TYPE C FRAME ON ROUND & FLAT OVAL DUCT.
 4. INSTALL DAMPER AND SLEEVE PER MANUFACTURER'S INSTRUCTIONS FOR U.L. LISTING.
 5. PROVIDE ACCESS DOOR FOR DAMPER RESET. LABEL ACCESS DOOR "FIRE DAMPER" - SEE SPECIFICATIONS FOR ACCESS DOOR SIZES, TYPES & LABELING REQUIREMENTS.

11 CURTAIN TYPE FIRE DAMPER DETAIL
SCALE: NOT TO SCALE:



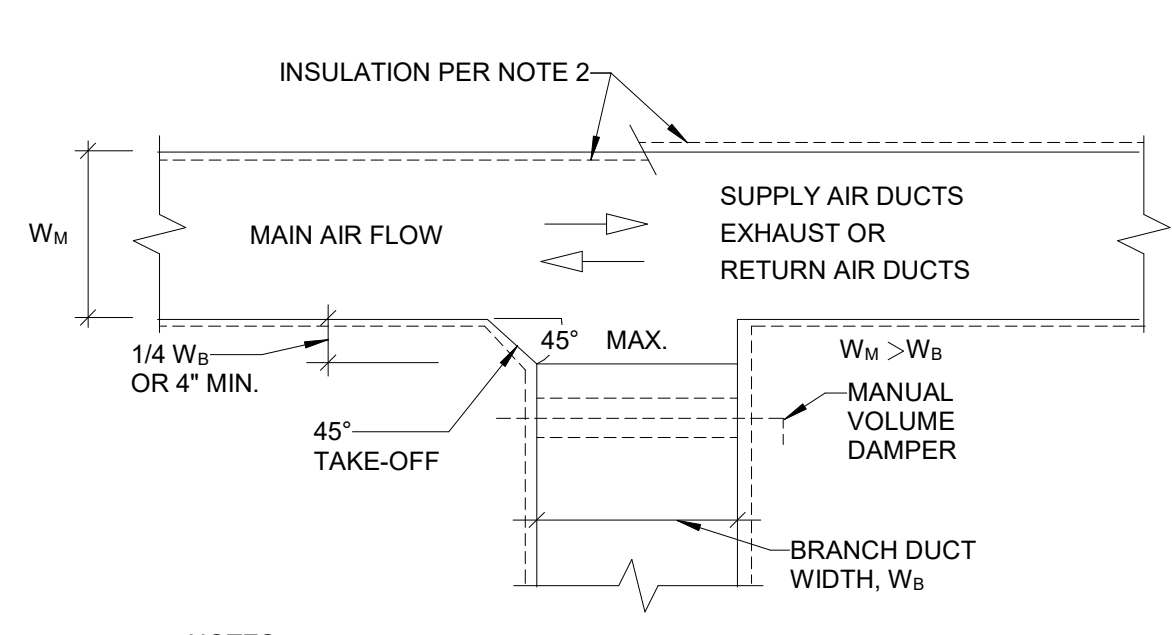
- NOTES:**
1. WHERE SCHEDULED, PROVIDE OBD.

17 RETURN/EXHAUST AIR PLENUM DETAIL
SCALE: NOT TO SCALE:



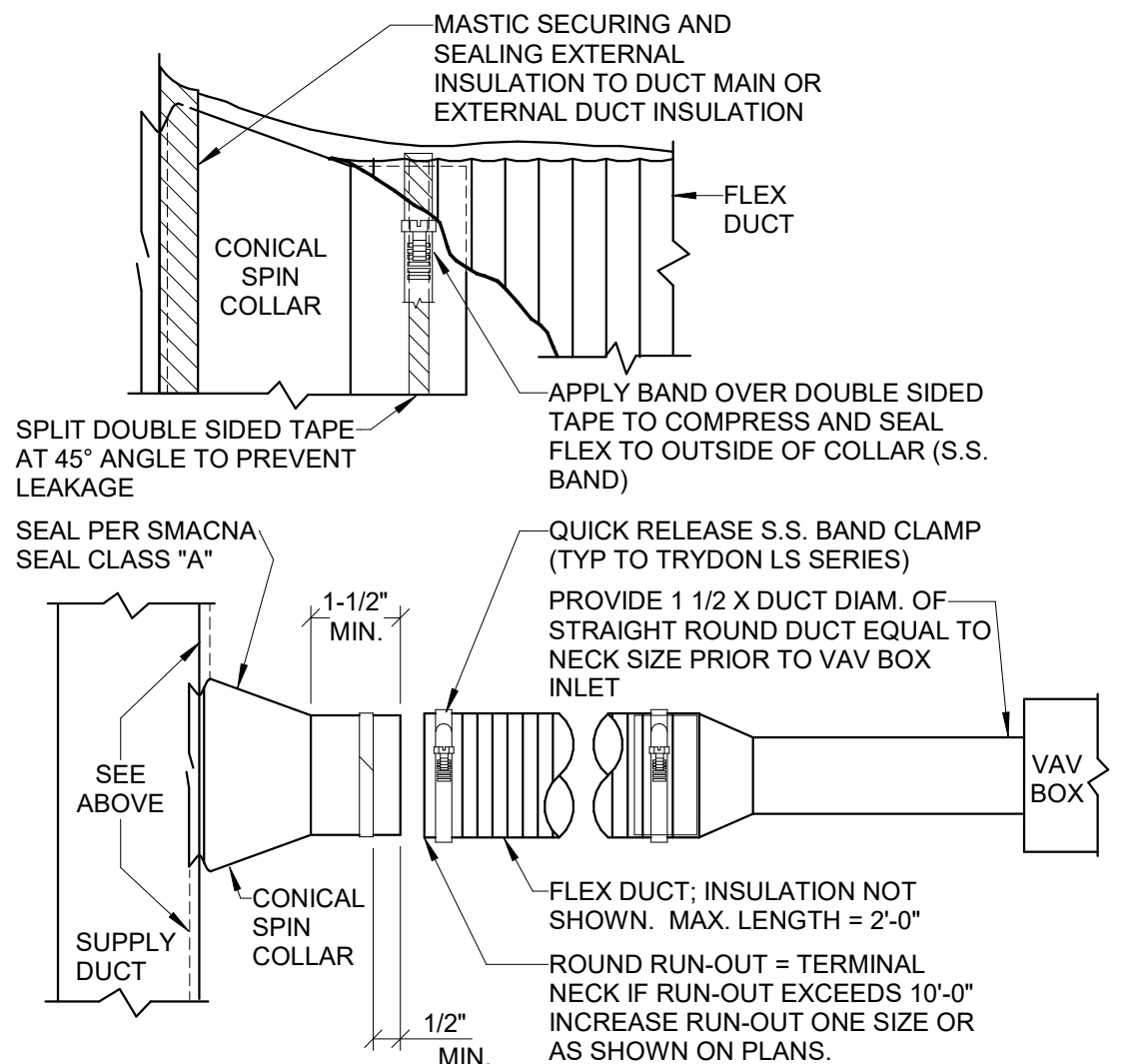
- NOTES:**
1. MAXIMUM ANGLE OF 15 DEGREES.
 2. MAXIMUM ANGLE OF 30 DEGREES.
 3. MAXIMUM FACE VELOCITY OF 700 PER MINUTE. FREE AREA OF OPENING SHALL BE DETERMINED BY REQUIRED CFM DIVIDED BY 700.

2 RETURN/EXHAUST DUCT OPENING DETAIL
SCALE: NOT TO SCALE:



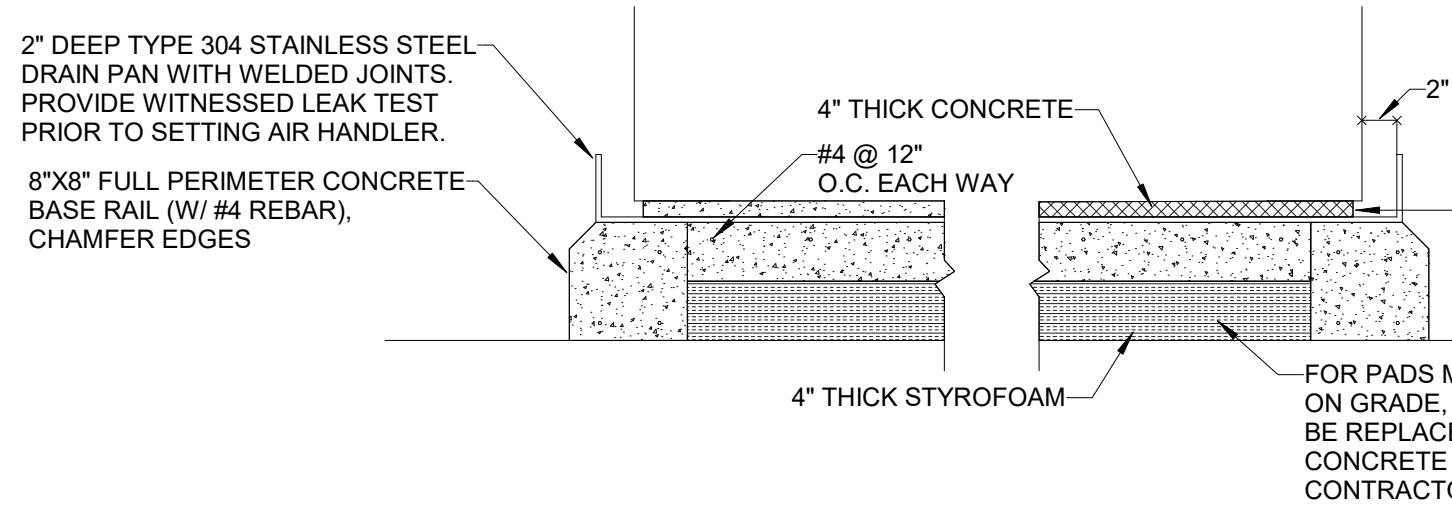
- NOTES:**
1. FABRICATE PER SMACNA DUCT CONSTRUCTION STANDARDS FIGURE #2-8.
 2. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS. FABRICATE LINED DUCT CONNECTIONS SO THAT THERE ARE NO EXPOSED LINER EDGES.

7 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NOT TO SCALE:

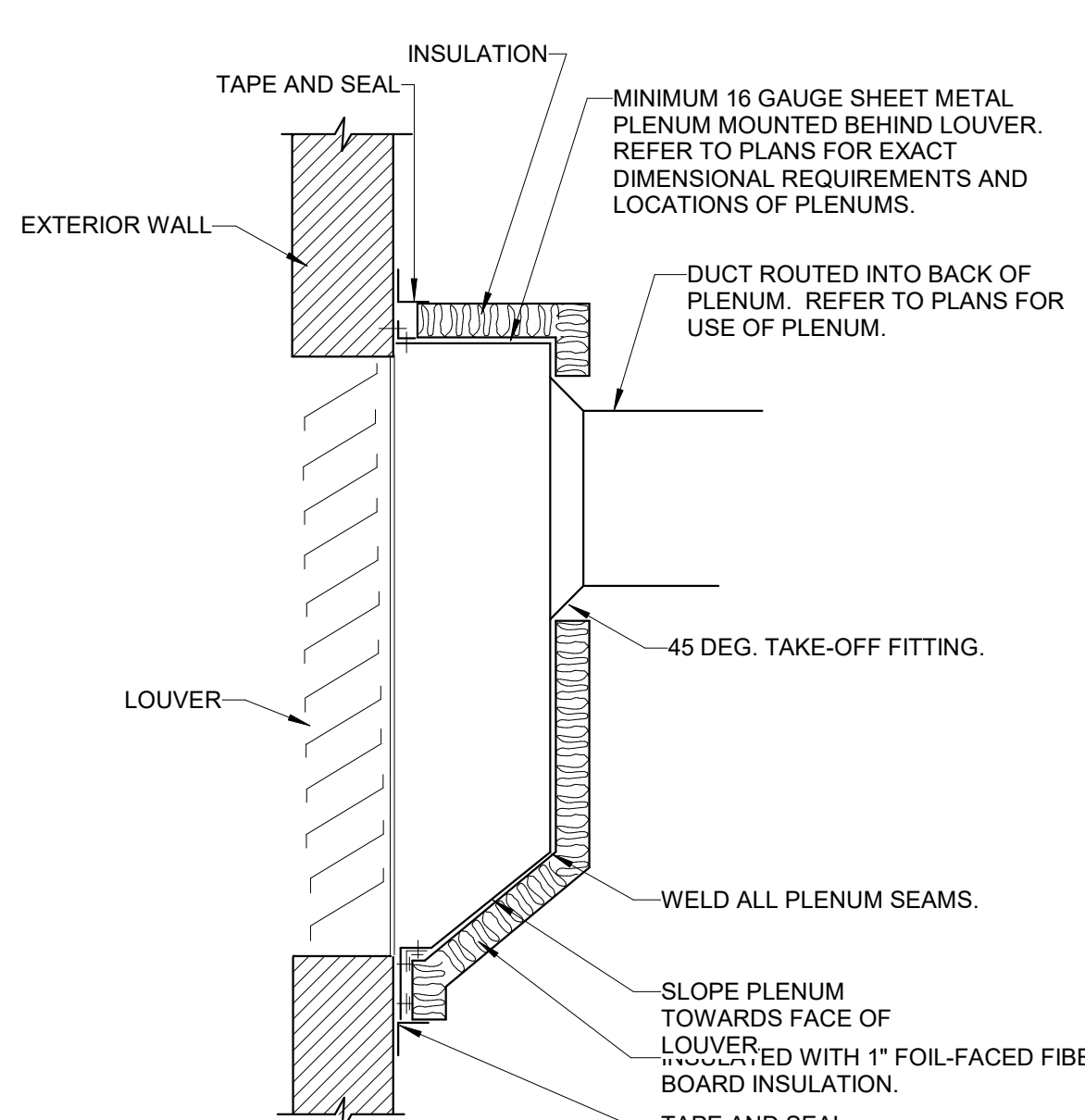


- NOTES:**
1. DOUBLE SIDED 1" WIDE, 1/8" THICK TAPE AND S.S. CLAMP OR DUCT SEALER (BENJAMIN FOSTER #3202) AND S.S. CLAMP (TAPE SHOWN).

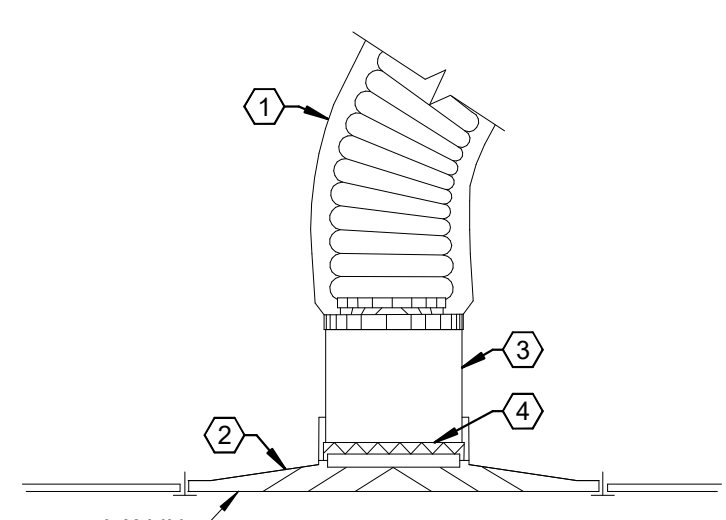
8 MEDIUM PRESSURE FLEX CONNECTION TO AIR TERMINAL UNIT DETAIL
SCALE: NOT TO SCALE:



12 AHU BASE SUPPORT PAD DETAIL
SCALE: NOT TO SCALE:

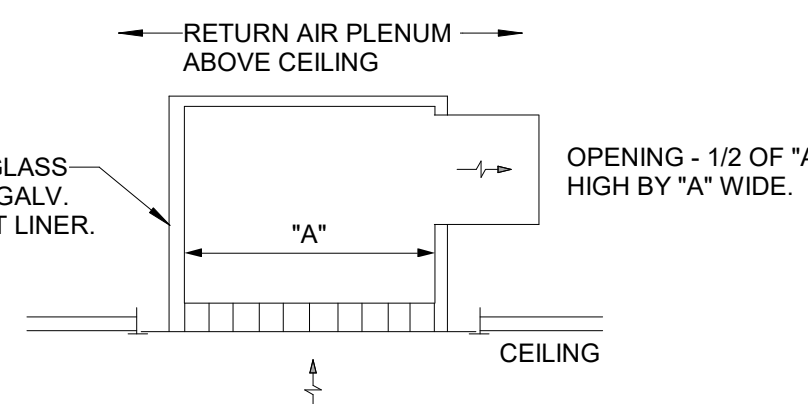


16 TYPICAL LOUVER CONNECTION
SCALE: NOT TO SCALE:



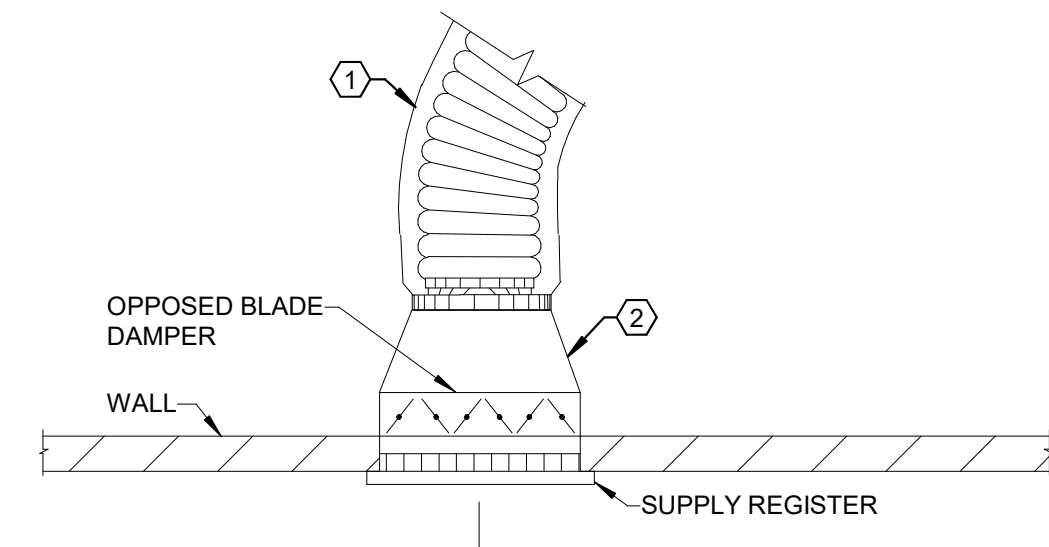
- NOTES:**
1. PRE-INSULATED FLEX DUCT AS REQUIRED. INSTALLED PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS. MAXIMUM LENGTH 5'-0", 1-45° TURN ALLOWED.
 2. LAY-IN OR SURFACE-MOUNT CEILING DIFFUSER WITH ROUND NECK. SEE ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPE.
 3. HARD ROUND 45° OR 90° ELBOW - INSULATED WITH EXTERNAL DUCTWRAP.
 4. WHERE SCHEDULED, PROVIDE OBD W/SCREWDRIVER ADJUSTMENT ACCESSIBLE FROM FACE OF DIFFUSER.

3 CEILING DIFFUSER DUCT DETAIL
SCALE: NOT TO SCALE:
FOR 8" Ø RUNOUTS AND SMALLER; ROUND NECK



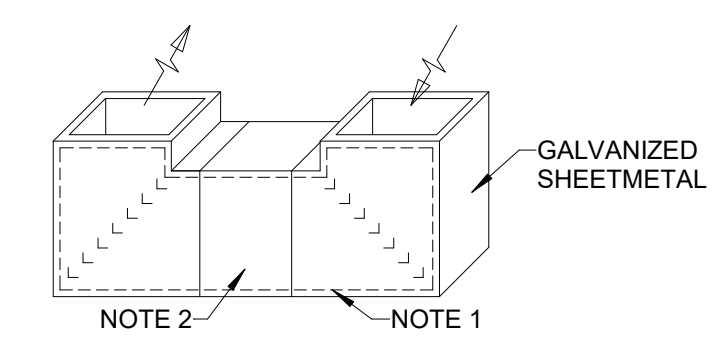
- NOTES:**
1. LOCATE OPENINGS IN ADJACENT ROOMS AT RIGHT ANGLES TO EACH OTHER.
 2. PAINT DUCTBOARD LINER BLACK.

4 SOUND ATTENUATING RETURN AIR BOOT DETAIL
SCALE: NOT TO SCALE:



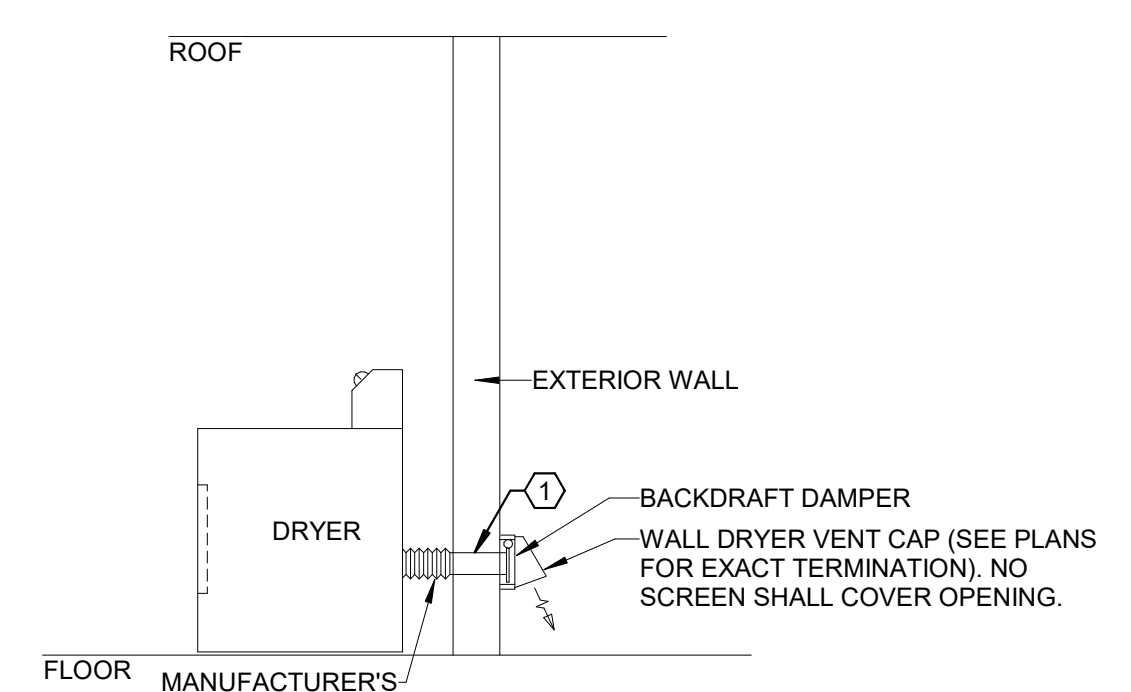
- NOTES:**
1. PRE-INSULATED FLEX DUCT AS REQUIRED. INSTALLED PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS. MAXIMUM LENGTH 5'-0", 1-45° TURN ALLOWED.
 2. ROUND TO SQUARE ADAPTOR AS REQUIRED.

5 SIDEWALL SUPPLY REGISTER DETAIL
SCALE: NOT TO SCALE:



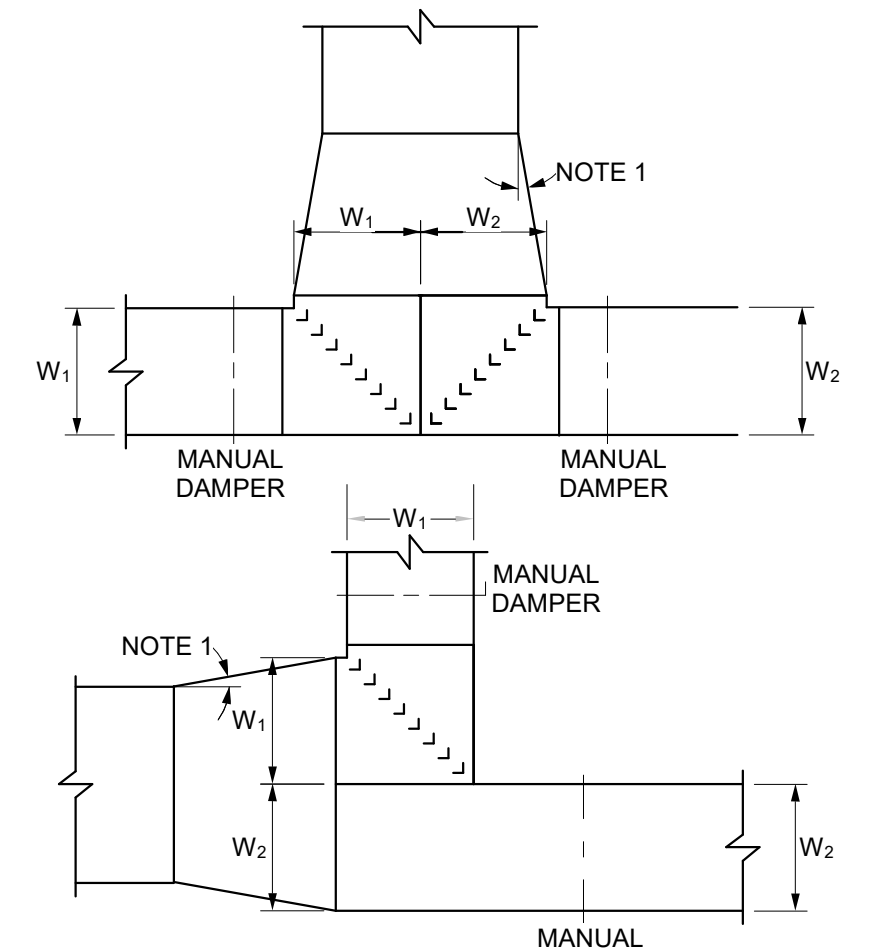
- NOTES:**
1. ONE INCH THICK ACOUSTICAL DUCT LINER.
 2. WIDTH AND DEPTH AS SHOWN ON PLANS.

10 TRANSFER DUCT DETAIL
SCALE: NOT TO SCALE:



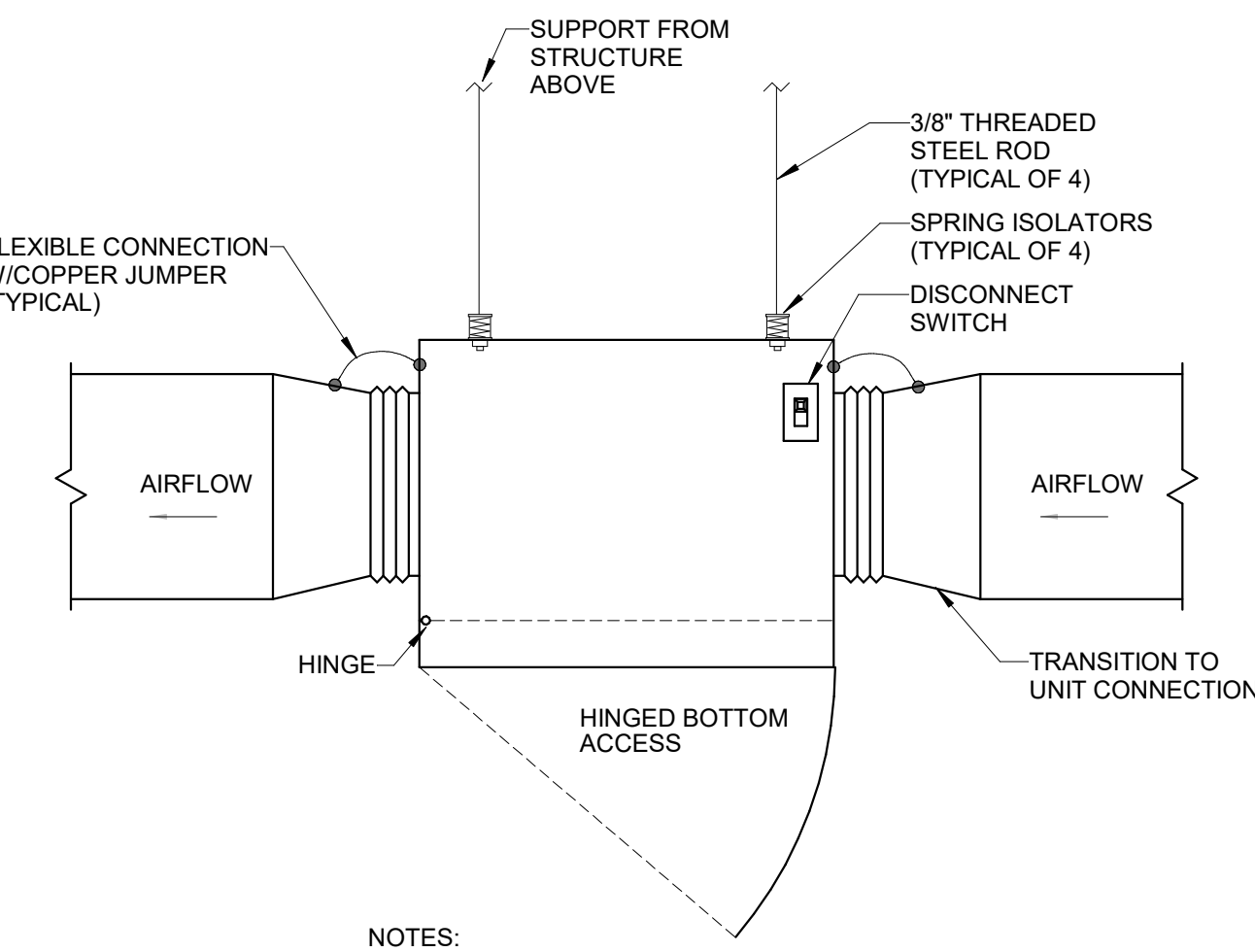
- NOTES:**
1. MINIMUM 26 GAUGE GALVANIZED STEEL DUCT WITH JOINTS RUNNING IN DIRECTION OF FLOW AND SMOOTH INTERIOR WITH NO PROTRUSIONS.

9 DOMESTIC DRYER EXHAUST DETAIL
SCALE: NOT TO SCALE:



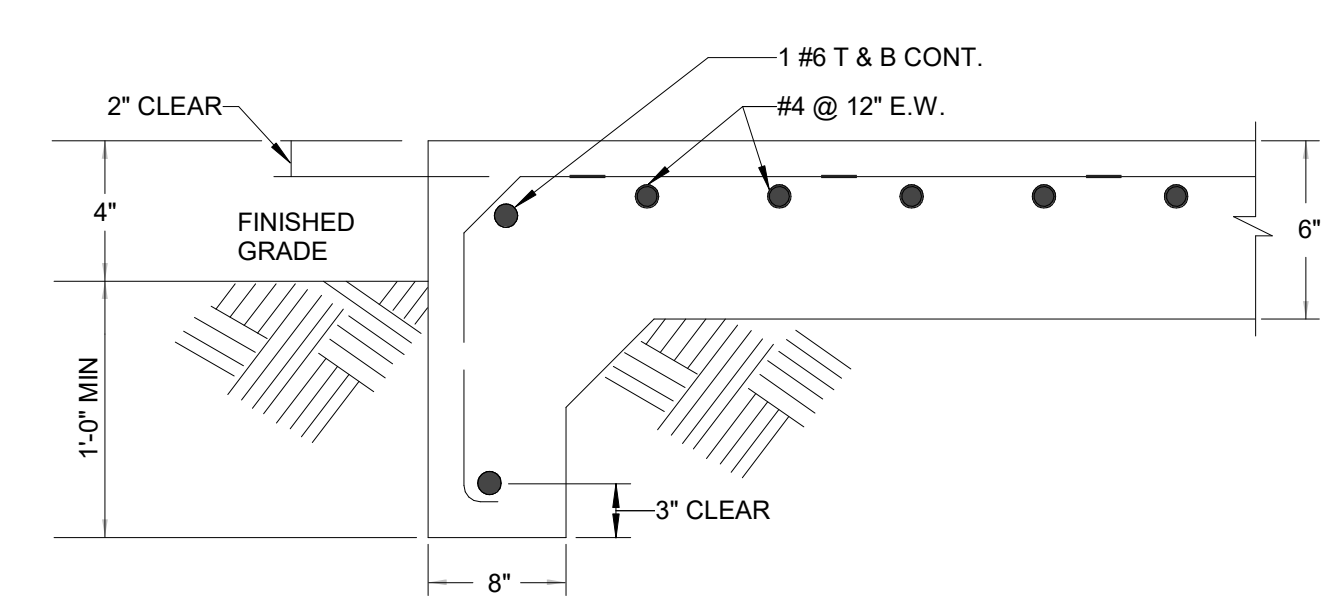
- NOTES:**
1. MAXIMUM 15 DEGREE ANGLE FOR ECCENTRIC FITTING. MAXIMUM 30 DEGREE ANGLE FOR CONCENTRIC FITTING.
 2. OMIT MANUAL DAMPERS ON MEDIUM PRESSURE SYSTEM.

14 EQUAL AREA SPLITTER DETAIL
SCALE: NOT TO SCALE:



- NOTES:**
1. DO NOT MOUNT OVER LIGHTS OR OTHER ITEMS THAT WILL BLOCK BOTTOM ACCESS.

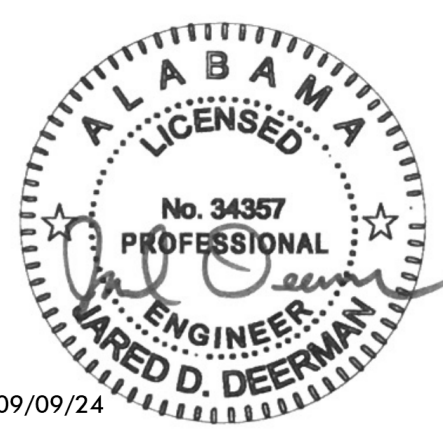
13 CABINET INLINE FAN DETAIL
SCALE: NOT TO SCALE:



15 SLAB ON GRADE DETAIL
SCALE: NOT TO SCALE:

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SYMBOL	DESCRIPTION
	VARIABLE FREQUENCY DRIVE WITH HAND - OFF - AUTO SWITCH
	MAGNETIC STARTER WITH HAND - OFF - AUTO SWITCH
	DISCONNECT SWITCH
	SMOKE DETECTOR
	SIGNAL TO FIRE ALARM SYSTEM
	SIGNAL FROM FIRE ALARM SYSTEM
	TEMPERATURE SENSOR, REMOTE BULB, SINGLE POINT WITH THERMOWELL AND ANALOG OUTPUT SIGNAL
	ROOM TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT AND ANALOG OUTPUT SIGNAL
	ROOM TEMPERATURE SENSOR WITH ANALOG OUTPUT SIGNAL
	TEMPERATURE SENSOR, REMOTE BULB, SINGLE POINT WITH THERMOWELL SEE CONTROL SPECIFICATION NOTE # 18.
	TEMPERATURE SENSOR, REMOTE BULB, SINGLE POINT WITH ANALOG INPUT
	ROOM THERMOSTAT ELECTRONIC OR ELECTRIC
	FREEZE/STAT WITH AVERAGING BULB. SEE CONTROL SPECIFICATION NOTE # 18.
	FREEZE/STAT WITH AVERAGING BULB AND AUX CONTACTS FOR STATUS INDICATION. SEE CONTROL SPECIFICATION NOTE # 18.
	FLOW SWITCH
	DIGITAL INPUT
	DIGITAL OUTPUT
	ANALOG INPUT
	ANALOG OUTPUT
	HUMIDITY SENSOR WITH ANALOG OUTPUT SIGNAL
	HUMIDISTAT W/ADJ. SETPOINT
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	MOTORIZED CONTROL VALVE - 2 WAY
	MOTORIZED CONTROL VALVE - 3 WAY
	MANUAL DAMPER
	DAMPER (OPPOSED BLADES) WITH END SWITCH
	MOTORIZED DAMPER WITH OPPOSED BLADES
	AIR FLOW MONITOR - PROVIDE ACCESS DOOR UPSTREAM OF DEVICE.
	DUCT STATIC PRESSURE TRANSMITTER
	DIFFERENTIAL PRESSURE SWITCH - ON PIPING SYSTEM PROVIDE BALL OR NEEDLE ISOLATION VALVES
	ADJUSTABLE CURRENT SENSOR

CONTROL SPECIFICATION GENERAL NOTES:

- SEE SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM REQUIREMENTS.
- SUBMIT COMPLETE CONTROL AND POWER WIRING DIAGRAMS FOR APPROVAL BEFORE INSTALLING CONTROLS. CONTROL DIAGRAMS ON DRAWINGS ARE INTENDED TO INDICATE, IN GENERAL, CONTROL ARRANGEMENTS. PROVIDE ALL INSTRUMENTS, RELAYS, OPERATORS, SWITCHES, ETC. REQUIRED TO ACCOMPLISH CONTROL SEQUENCES WHETHER OR NOT SUCH DEVICES ARE ACTUALLY SHOWN ON CONTROL DIAGRAMS.
- INCLUDE ALL CONTROL AND INTERLOCK WIRING AND POWER WIRING FOR CONTROL PANELS AND CONTROL DEVICES, UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS.
- INSTALL ALL CONTROL WIRING IN MECH. ROOMS (INCLUDING LOW VOLTAGE WIRING) IN CONDUIT. LABEL CONTROL CONDUIT PER FACILITY STANDARDS.
- ALL WIRING AND CONDUIT SHALL BE FURNISHED AND INSTALLED IN STRICT ACCORDANCE WITH ELECTRICAL.
- SMOKE DETECTORS: FURNISHED AND WIRED UNDER DIVISION 26.
- LOCATIONS OF CONTROL PANELS TO BE FIELD VERIFIED BY THE CONTRACTOR. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
- THE NEW BUILDING AUTOMATION CONTROL SYSTEM (BAS) SHALL BE A WEB-BASED DIRECT DIGITAL CONTROL SYSTEM
- CONTRACTOR TO PROVIDE GRAPHICAL INTERFACE TO WEB-BASED CONTROL SYSTEM FOR ALL CONTROLS INSTALLED UNDER THIS CONTRACT.
- CONTROL CONTRACTOR TO PROVIDE 24V TRANSFORMERS AT CONTROL PANEL IN MECHANICAL ROOM AND ROUTE LOW VOLTAGE CONTROL POWER TO ALL AIR TERMINAL UNITS. CONTROL PANELS SHALL BE BACNET-IP.
- OBTAIN BUILDING OPERATING SCHEDULE FROM OWNER IN WRITING AND SET EQUIPMENT OPERATION SCHEDULES ACCORDINGLY. SET THERMOSTAT SOFTWARE PARAMETERS AND SETPOINT LIMITATIONS PER OWNER'S DIRECTION. PROVIDE SIGNED LETTER FROM OWNER THIS HAS BEEN DONE.
- CONTROL SYSTEM IS TO BE A COMPLETE CONTROL SYSTEM. PROVIDE ALL HARDWARE, SOFTWARE AND PROGRAMMING REQUIRED TO MAKE COMPLETE SYSTEM.
- DAMPERS AND ACTUATORS: ACTUATORS SHALL BE DIRECT COUPLED, SPRING RETURN AS MANUFACTURED BY BELIMO. ROUND DAMPERS SHALL BE RUSKIN CDRS25 WITH BLADE EDGE SEAL AND MAXIMUM LEAKAGE OF 15 CFM PER INCH BLADE CIRCUMFERENCE AT 4 INCHES W.C. PRESSURE DIFFERENTIAL. RECTANGULAR DAMPERS SHALL BE RUSKIN RCD45 WITH BLADE EDGE SEALS AND MAXIMUM LEAKAGE OF 10 CFM PER SQ. FT. AT 4 INCHES W.C. PRESSURE DIFFERENTIAL.
- THERMOSTATS FOR FANS AND ELECTRIC HEATERS: JOHNSON CONTROLS MODEL T26. HEATING THERMOSTATS SHALL HAVE LIMITED RANGE OF 40F TO 75F. COOLING THERMOSTATS SHALL HAVE LIMITED RANGE OF 78F TO 90F. THERMOSTATS SHALL BE LABELED "HEATING" OR "VENTILATION" AND INDICATE UNITS SERVED.
- AVERAGING TEMPERATURE SENSOR SHALL HAVE ONE FOOT OF ELEMENT LENGTH PER THREE SQUARE FEET OF COIL SURFACE EVENLY DISTRIBUTED OVER THE COIL SURFACE. MULTIPLE AVERAGING TEMPERATURE SENSORS MAY BE REQUIRED TO MEET THE ONE FOOT OF ELEMENT PER THREE SQUARE FEET OF COIL SURFACE AND IN THIS EVENT THE MULTIPLE AVERAGING TEMPERATURE SENSORS SHALL BE WIRED TO PROVIDE THE CORRECT AVERAGE TEMPERATURE TO THE DDC SYSTEM. AVERAGING TEMPERATURE SENSORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AT REGULAR INTERVALS TO COVER THE ENTIRE COIL.
- TEST PORTS - COORDINATE WITH MECHANICAL CONTRACTOR TO INSTALL TEST PORTS FOR HAND-HELD INSTRUMENT READINGS NEAR ALL PIPING PRESSURE AND TEMPERATURE SENSORS. COORDINATE REQUIREMENTS WITH SPECIFICATION, SECTION "METERS AND GAUGES."
- PROVIDE DUCT ACCESS DOORS UPSTREAM OF ALL DUCT MOUNTED AIR FLOW MONITORING STATIONS.
- WEB BASED USER INTERFACE (INCLUDING DATA COLLECTION AND TRENDS CAPABILITIES) SHALL BE FULLY OPERATIONAL AND ACCESSIBLE REMOTELY PRIOR TO BUILDING FINAL INSPECTION. REMOTE CHECK-OUT OF BUILDING AUTOMATION SYSTEM SHALL BE PART OF THE FINAL INSPECTION PROCESS.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL TEMPERATURE/HUMIDITY/PRESSURE SENSORS WITH ENGINEER/OWNER PRIOR TO ROUGH-IN.

CONTROL SEQUENCE - UNOCCUPIED HIGH/LOW LIMITS

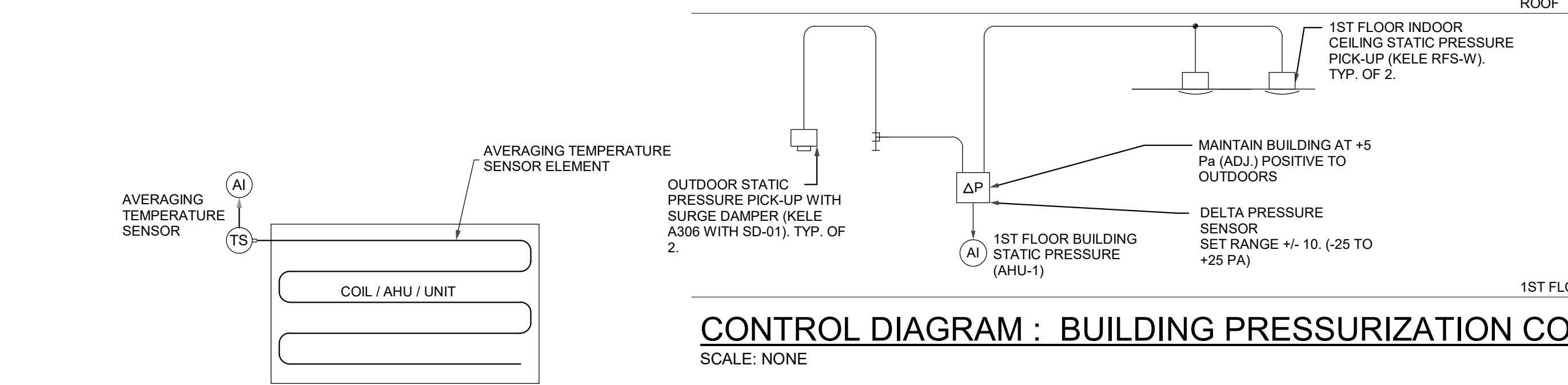
- BAS SHALL COMMAND ON THE UNIT CONTROLS BASED ON A 365 DAY PER YEAR, TIME-OF-DAY SCHEDULE, WHICH IS ADJUSTED BY OPTIMUM START AND SCHEDULED STOP PROGRAM CALCULATIONS. ONCE COMMANDED ON, UNIT CONTROLS SHALL REMAIN ENABLED FOR A MINIMUM OF 30 MINUTES.
- BAS SHALL COMMAND ON THE BUILDING CONTROLS PRIOR TO OCCUPANCY TIME AS DETERMINED BY THE OPTIMUM START CALCULATION. THE PERIOD BETWEEN UNIT START AND OCCUPANCY TIME IS REFERRED TO AS THE SPACE PRE-CONDITIONING PERIOD. AT THE END OF THIS PERIOD, THE OCCUPIED MODE BEGINS AND CONTINUES UNTIL THE BUILDING CONTROLS ARE DISABLED. THE BAS SHALL STOP THE BUILDING CONTROLS AT THE END OF THE OCCUPANCY TIME AS DETERMINED BY THE TIME OF DAY SCHEDULE.
- IF OUTDOOR TEMPERATURE IS ABOVE 60F (ADJUSTABLE) THE OPTIMUM START CALCULATIONS ARE BASED ON COOLING CONDITIONS, OTHERWISE THEY ARE BASED ON HEATING CONDITIONS.
- UNOCCUPIED LIMITS:
CONTRACTOR TO SELECT 4 TYPICAL TERMINAL UNIT TEMPERATURE SENSORS FOR AHU'S UNOCCUPIED AND OPTIMUM START SEQUENCES.
LOW TEMPERATURE LIMIT: WHEN THE DDC SCHEDULE IS IN THE UNOCCUPIED MODE AND SPACE TEMPERATURE FALLS BELOW 55F (ADJUSTABLE) THE UNIT CONTROLS SHALL BE ENERGIZED AND STAY ON UNTIL THE SPACE TEMPERATURE RISES BY 5F (ADJUSTABLE).
HIGH TEMPERATURE LIMIT: WHEN THE DDC SCHEDULE IS IN THE UNOCCUPIED MODE AND SPACE TEMPERATURE RISES ABOVE 85F (ADJUSTABLE) THE UNIT CONTROLS SHALL BE ENERGIZED AND STAY ON UNTIL THE SPACE TEMPERATURE FALLS BY 5F (ADJUSTABLE).
HIGH HUMIDITY LIMIT: WHEN THE DDC SCHEDULE IS IN THE UNOCCUPIED MODE AND SPACE RELATIVE HUMIDITY RISES ABOVE 60% RH (ADJUSTABLE) THE UNIT CONTROLS SHALL BE ENERGIZED AND STAY ON UNTIL THE SPACE RELATIVE HUMIDITY FALLS BY 5% (ADJUSTABLE).

CONTROLS - AS-BUILT DRAWINGS & MANUALS

GENERAL CONTROL NOTES:

THE ELECTRONIC VERSION OF THE AS-BUILT CONTROLS DRAWINGS AND MANUALS SHOULD BE PROVIDED AND INSTALLED ON THE BAS SERVER AND A LINK SHOULD BE PROVIDED ON THE MAIN GRAPHIC PAGE. ALL DUCT STATIC PRESSURE SENSOR LOCATIONS SHALL BE LOCATED ON BOTH THE BAS SERVER AND AS BUILT DRAWINGS.

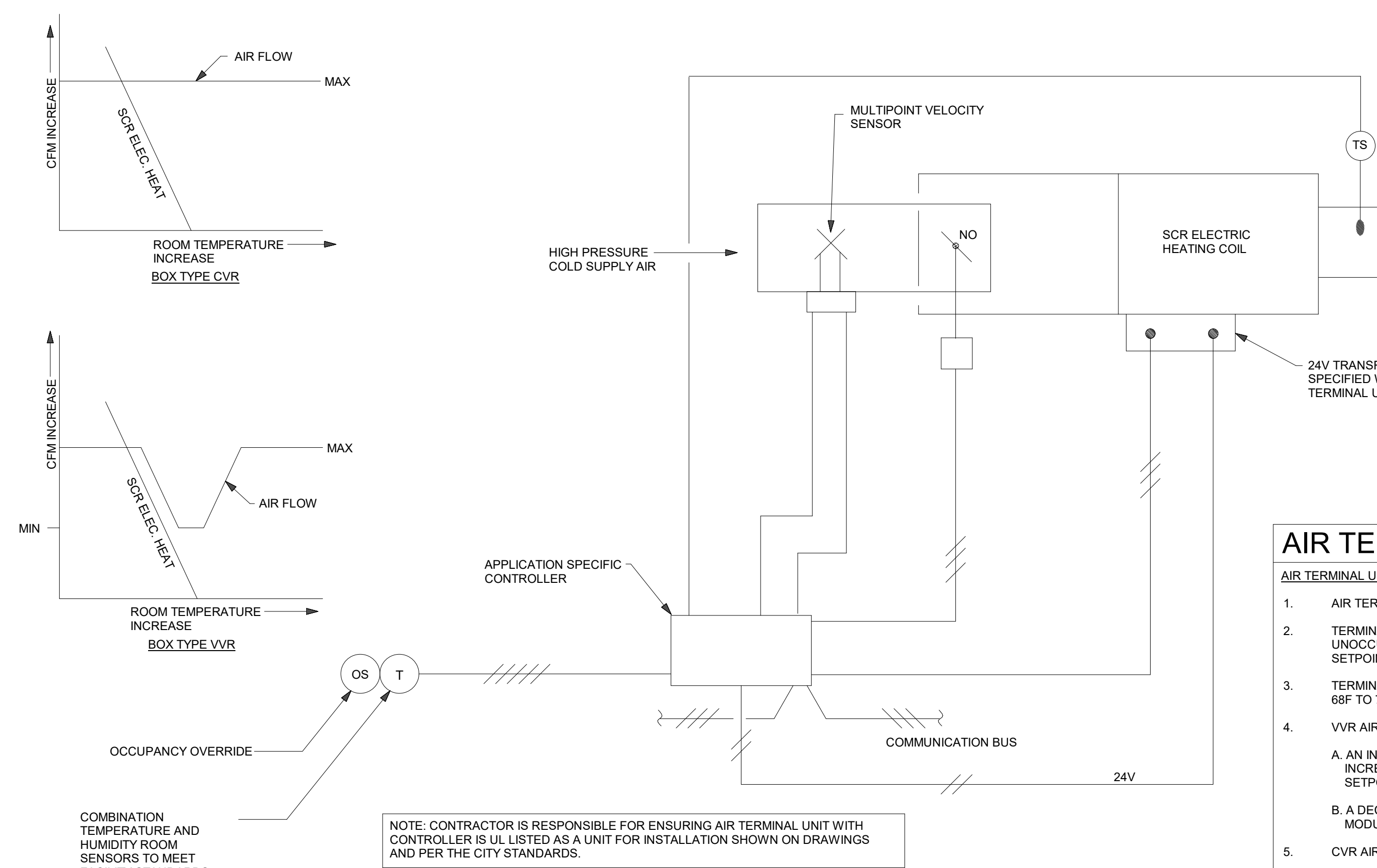
AN ELECTRONIC VERSION OF THE AS-BUILT PROJECT DRAWINGS SHOULD BE PROVIDED TO MAINTENANCE.



NOTES:

- AVERAGING TEMPERATURE SENSOR SHALL HAVE ONE FOOT OF ELEMENT LENGTH PER THREE SQUARE FOOT OF COIL / UNIT SURFACE EVENLY DISTRIBUTED OVER THE COIL / UNIT SURFACE AS SHOWN IN DETAIL.
- MULTIPLE AVERAGING TEMPERATURE SENSORS MAY BE REQUIRED TO MEET THE ONE FOOT OF ELEMENT PER TWO SQUARE FOOT OF COIL / UNIT SURFACE AND IN THIS EVENT THE MULTIPLE AVERAGING TEMPERATURE SENSORS SHALL BE WIRED TO PROVIDE THE CORRECT AVERAGE TEMPERATURE TO THE DDC SYSTEM.
- AVERAGING TEMPERATURE SENSORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AT REGULAR INTERVALS TO COVER THE ENTIRE COIL / UNIT.
- AVERAGING TEMPERATURE SENSORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS IN A MANNER TO PREVENT THE ELEMENT FROM BEING DAMAGED FROM VIBRATION.

AHU DUCT AVERAGING TEMPERATURE SENSOR DETAIL
SCALE: NONE



AIR TERMINAL CONTROL DIAGRAM - ELECTRIC REHEAT
SCALE: NONE



ELECTRIC WALL HEATER CONTROL
SCALE: NONE

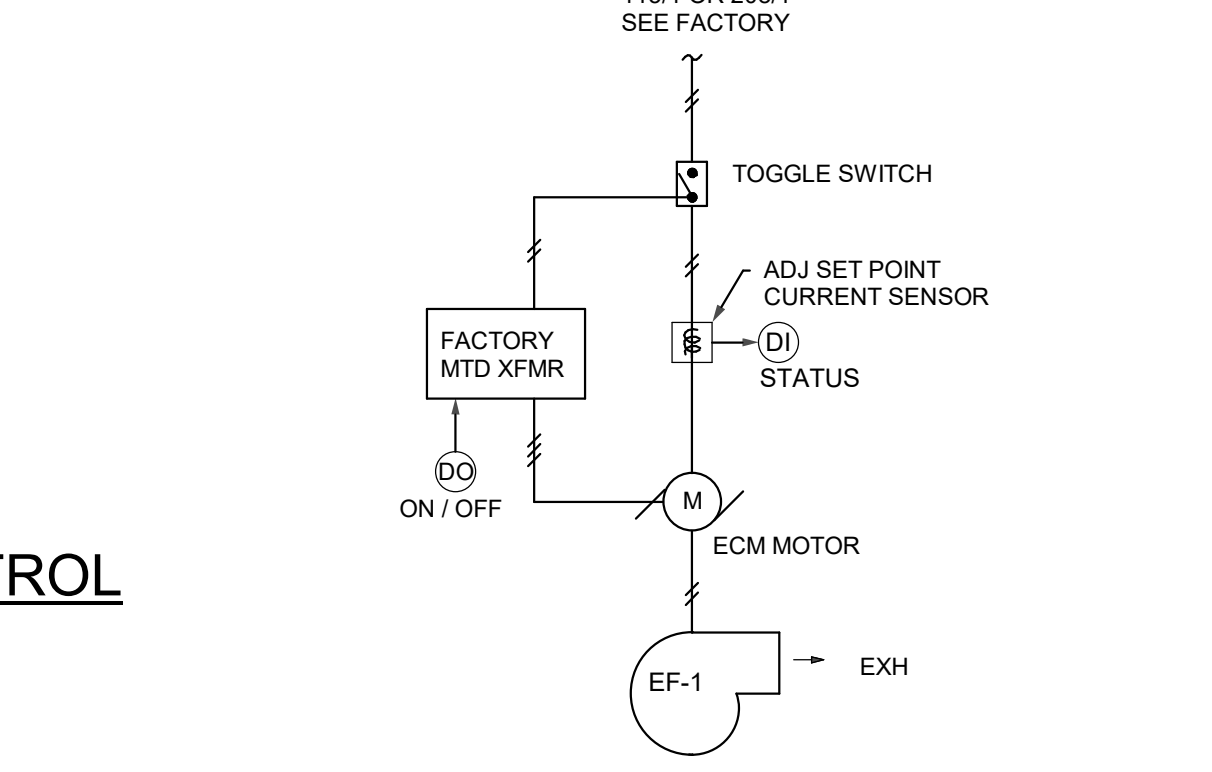


CONTROL DIAGRAM - DUCTLESS SPLIT SYSTEM
SCALE: NONE
TAGS: DS-1, DS-2, DS-3, DS-4, DS-5, DS-6

CONTROLS
CONTROL SEQUENCE - DUCTLESS SPLIT SYSTEMS

EACH DUCTLESS SPLIT SYSTEM AC UNIT SHALL HAVE CONTROLS SPECIFIED WITH UNIT. UNIT SHALL CYCLE FAN AND COOLING OPERATION TO MAINTAIN SPACE TEMPERATURE SETPOINT.

THE BAS SHALL MONITOR SPACE TEMPERATURE IN SPACES SERVED BY DUCTLESS SPLIT SYSTEM UNITS. THE BAS SHALL ACTIVATE AN ALARM AT THE USER INTERFACE IF SPACE TEMPERATURE EXCEEDS 80 DEGREES F (ADJUSTABLE).



EXHAUST FAN CONTROLS W/ ECM MOTOR
SCALE: NONE

CONTROL SEQUENCE - EXHAUST FAN W/ EC MOTOR

EXHAUST FAN IS ENABLED AND DISABLED BY THE BAS AND INTERLOCKED WITH AHU-1. THE FAN SPEED IS ADJUSTED BY THE TAB AGENCY AT THE MOTOR MOUNTED PILOT.

AIR TERMINAL UNIT CONTROLS:

- AIR TERMINAL UNITS**
- AIR TERMINAL UNITS TO BE CONTROLLED BY THE BAS.
 - TERMINAL UNITS TO HAVE SEPARATE HEATING AND COOLING SETPOINTS FOR OCCUPIED AND UNOCCUPIED MODES AND SEPARATE HEATING AND COOLING MINIMUM AND MAXIMUM AIR FLOW SETPOINTS.
 - TERMINAL UNIT TEMPERATURE SENSOR SETPOINTS SHALL BE SOFTWARE LIMITED TO RANGE FROM 68F TO 75F.
 - VVR AIR TERMINALS - VARIABLE VOLUME REHEAT:
A. AN INCREASE IN ROOM TEMPERATURE OVER COOLING SETPOINT CAUSES AIRFLOW TO INCREASE LINEARLY UP TO COOLING MAXIMUM. WHEN SPACE TEMPERATURE IS BELOW COOLING SETPOINT, AIRFLOW IS AT BOX MINIMUM.
B. A DECREASE IN ROOM TEMPERATURE BELOW THE HEATING SETPOINT CAUSES AIRFLOW TO MODULATE TO MATCH SCR ELECTRIC HEAT.
 - CVR AIR TERMINALS - CONSTANT VOLUME REHEAT:
A. AIRFLOW IS CONSTANT. A DECREASE IN ROOM TEMPERATURE BELOW THE HEATING SETPOINT CAUSE SCR ELECTRIC HEATER TO MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
B. ROOM SENSOR OVERRIDE BUTTON TO BE SEQUENCE AIR HANDLER INTO OCCUPIED MODE FOR FOUR HOUR (ADJUSTABLE).

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PROJECT ADDRESS
GMC # ABHM220021

ALABAMA
LICENSED
No. 94357
PROFESSIONAL
ENGINEER
WILLIAM D. DEERMAN
09/09/24

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ADA REQUIREMENTS

THIS APPLIES TO ADA ACCESSIBLE FIXTURES ONLY.

WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" MEASURED TO THE TOP OF THE TOILET SET. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER LINE OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. NO MORE THAN 29" ABOVE THE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

URINALS: THE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE THE FINISH FLOOR. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISH FLOOR.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF THE BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE THE FINISH FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

FAUCETS - BATHTUB - SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

BATHTUB: AN IN TUB SEAT OR A SEAT AT THE HEAD END OF THE TUB SHALL BE PROVIDED. SEATS SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE. IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER. SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

SHOWER: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"x36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17" TO 19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD. AT MINIMUM HEIGHT OF 38" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. IN A 30"x60" SHOWER UNIT A FIXED SEAT SHALL BE PROVIDED. IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A KNEE CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6 1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

DRINKING FOUNTAINS / WATER COOLERS: WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS AND ONE ACCESSIBLE TO THOSE HAVING DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMPLISHED BY USING A "HILL" FOUNTAIN. LOWEST SPOUT SHALL BE NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND HIGHEST SPOUT SHALL BE MOUNTED AT 40" ABOVE FINISH FLOOR. SPOUTS SHALL BE AT FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE OF BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR AT LEAST 27" HIGH, 30" WIDE, AND 17" TO 19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" OUT INTO WALKWAYS.

GENERAL NOTES

1. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"x18"x6" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL)
2. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC NIPPLE SHALL BE USED.
3. ALL HORIZONTAL WATER AND VENT PIPING IS RUN ABOVE CEILING ON PLAN UNLESS OTHERWISE NOTED.
4. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
5. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
6. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS OF THE WORK. OBTAIN DIMENSIONS AND PERTINENT INFORMATION FROM ARCHITECTURAL DRAWINGS.
7. ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OR FINISH FLOOR UNLESS OTHERWISE NOTED.
8. INSTALL ALL OUTSIDE VALVES IN CONCRETE OR CAST IRON VALVE BOXES.
9. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN UNLESS OTHERWISE NOTED.
10. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
11. PAVEMENT CUTS, BACKFILLING, AND PATCHING SHALL MEET ALL LOCAL REQUIREMENTS.
12. INSTALL WATER PIPING TO ASME B31.9. PROVIDE PDI SHOCK ARRESTORS ON WATER SUPPLIES TO ALL FIXTURES.
13. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGHING MECHANICAL ROOM FLOOR DRAINS, HOSE BIBBS, ETC.
14. ALL FLOOR SINKS TO BE INSTALLED WITH RIM/GRATE FLUSH WITH FINISH FLOOR.

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	WASTE	CW	HW	REMARKS
WC-1	WATER CLOSET	4"	1"	-	WALL HUNG, HARDWIRED FLUSH VALVE
WC-2	WATER CLOSET	4"	1"	-	WALL HUNG, HARDWIRED FLUSH VALVE, ADA
WC-2	WATER CLOSET	3"	1"	-	FLOOR MOUNTED, HARDWIRED, FLUSH VALVE, ADA
UR-1	URINAL	2"	3/4"	-	WALL HUNG, FLUSH VALVE, ADA
LAV-1	LAVATORY	1-1/4"	1/2"	1/2"	UNDERMOUNT, ADA, WITH TMV SET TO 109°F, HARDWIRED
EW-C-1	ELEC WATER COOLER	1-1/2"	1/2"	-	BI-LEVEL, ADA, W/ BOTTLE FILLER
BT-1	BATHTUB	2"	1/2"	1/2"	-
SK-1	SINK	1-1/2"	1/2"	1/2"	12"x27"
SK-2	SINK	1-1/2"	1/2"	1/2"	12"x15"
JC-1	JANITOR'S CLOSET	3"	1/2"	1/2"	24"x24" PRE-CAST
WMB-1	WASHING MACHINE BOX	2"	1/2"	1/2"	-
TMV-1	THERMOSTATIC MIXING VALVE	-	1/2"	1/2"	-
REF-1	REFRIGERATOR	-	1/2"	-	WALL SUPPLY BOX
IM-1	ICE MAKER	-	1/2"	-	WALL SUPPLY BOX, PIPE WASTE TO FS
CM-1	COFFEE MAKER	-	1/2"	-	WALL SUPPLY BOX

WATER HAMMER ARRESTOR SCHEDULE

P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

CLASSIFICATIONS ESTABLISHED BY THE PLUMBING AND DRAINAGE INSTITUTE "STANDARD P.D.I.-WH201". INSTALL WATER PIPING TO ASME B31.9 CLOSED COPPER TUBE CHAMBER WITH PERMANENTLY SEALED 410 KP4 (60PSI) AIR CHARGE ABOVE A DOUBLE O-RING PISTON. TWO HIGH HEAT BUNA-N O-RINGS PRESSURE PACKED AND LUBRICATED WITH FDA APPROVED SILICONE COMPOUND. ALL UNITS SHALL BE DESIGNED IN ACCORDANCE WITH ASSE 1010 FOR SEALED WALL INSTALLATIONS WITHOUT AN ACCESS PANEL. SIZE AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. UNIT SHALL BE AS MANUFACTURED BY PRECISION PLUMBING PRODUCTS, INC. WATTS, OR SIOUX CHIEF. PROVIDE WATER HAMMERS AT ALL SOLENOID VALVES, ALL GROUPS OR TWO OR MORE FLUSH VALVES, ALL QUICK OPENING OR CLOSING VALVES, AND ALL WASHING EQUIPMENT.

APPROVED MANUFACTURERS:
1. ZURN, WADE, J.R. SMITH, JOSAM, MIFAB

PLUMBING LEGEND

---	COLD WATER LINE	FD	FLOOR DRAIN W/ TG
---	HOT WATER LINE	MFD	MECHANICAL FLOOR DRAIN W/ TG
---	HOT WATER RETURN LINE	A.F.F.	ABOVE FINISH FLOOR
---	SOIL OR WASTE LINE BELOW SLAB	CO	CLEAN OUT
---	VENT LINE	CW	COLD WATER
+	BALL VALVE	EW	ELECTRIC WATER COOLER
+	WATER PRESSURE REGULATOR	FFE	FINISH FLOOR ELEVATION
+	CHECK VALVE	GPM	GALLONS PER MINUTE
+	UNION	HW	HOT WATER
+	PIPE TURNING UP	HWR	HOT WATER RETURN
+	PIPE TURNING DOWN	INV	INVERT
+	P-TRAP	JC	JANITOR'S CLOSET
+	CLEANOUT W/ 18" SQUARE CONCRETE PAD	LAV	LAVATORY
+	HOSE BIBB	NC	NORMALLY CLOSED
+	WALL HYDRANT	X#	PLUMBING FIXTURE NUMBER
+	WALL CLEANOUT	PSI	POUNDS PER SQUARE INCH
+	FLOOR CLEANOUT	PRV	PRESSURE REDUCING VALVE
+	RISER DIAGRAM NUMBER	TG	TRAP GUARD
		UR	URINAL
		VTR	VENT THRU ROOF
		WC	WATER CLOSET

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	LOCATION	CW	HW	ELECTRICAL	GAL.	SET POINT	REMARKS	
EW-1	LET-55 DAK	MECHANICAL 1086	1-1/4"	1-1/4"	4.5	240/1	50	125F	SEE DETAIL 11, THIS SHEET.

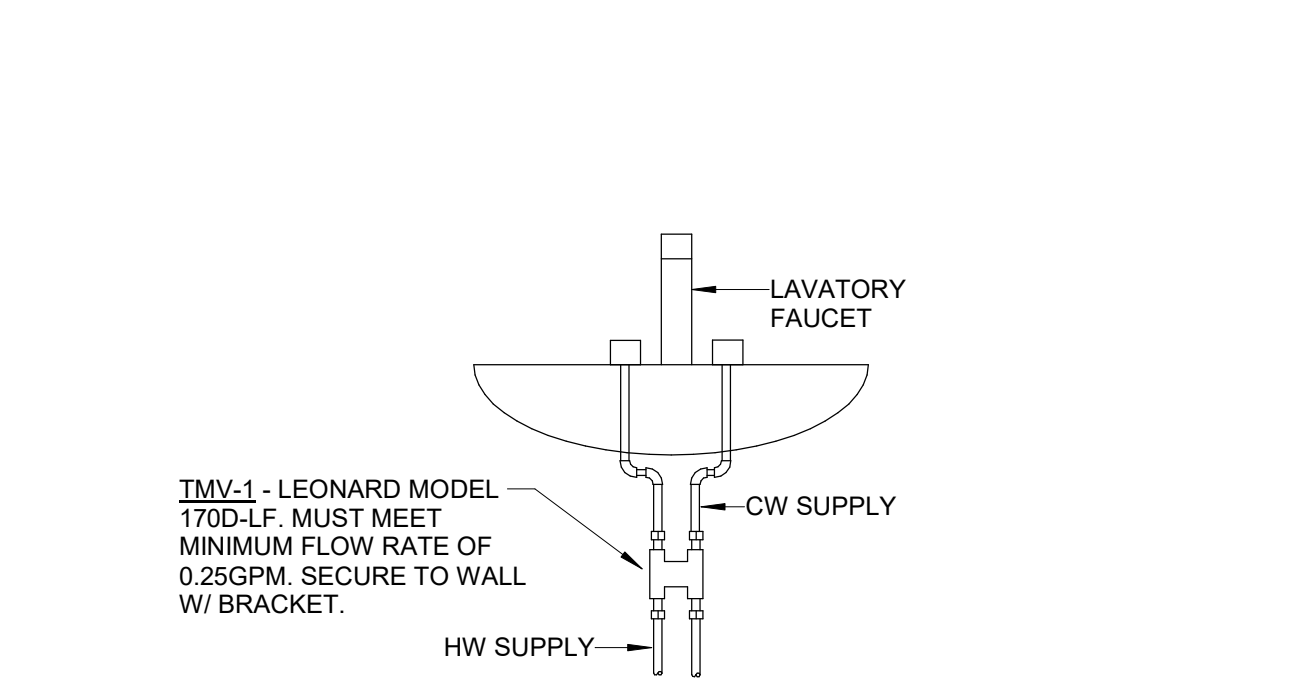
PUMP SCHEDULE

MARK	MODEL NO.	LOCATION	G.P.M.	HEAD (FT.)	ELECTRICAL DATA	TYPE	REMARKS
RCP-1	GRUNDFOS UPS 15-35 SFC	MECHANICAL 1086	2	8	1/12 115	1	IN-LINE

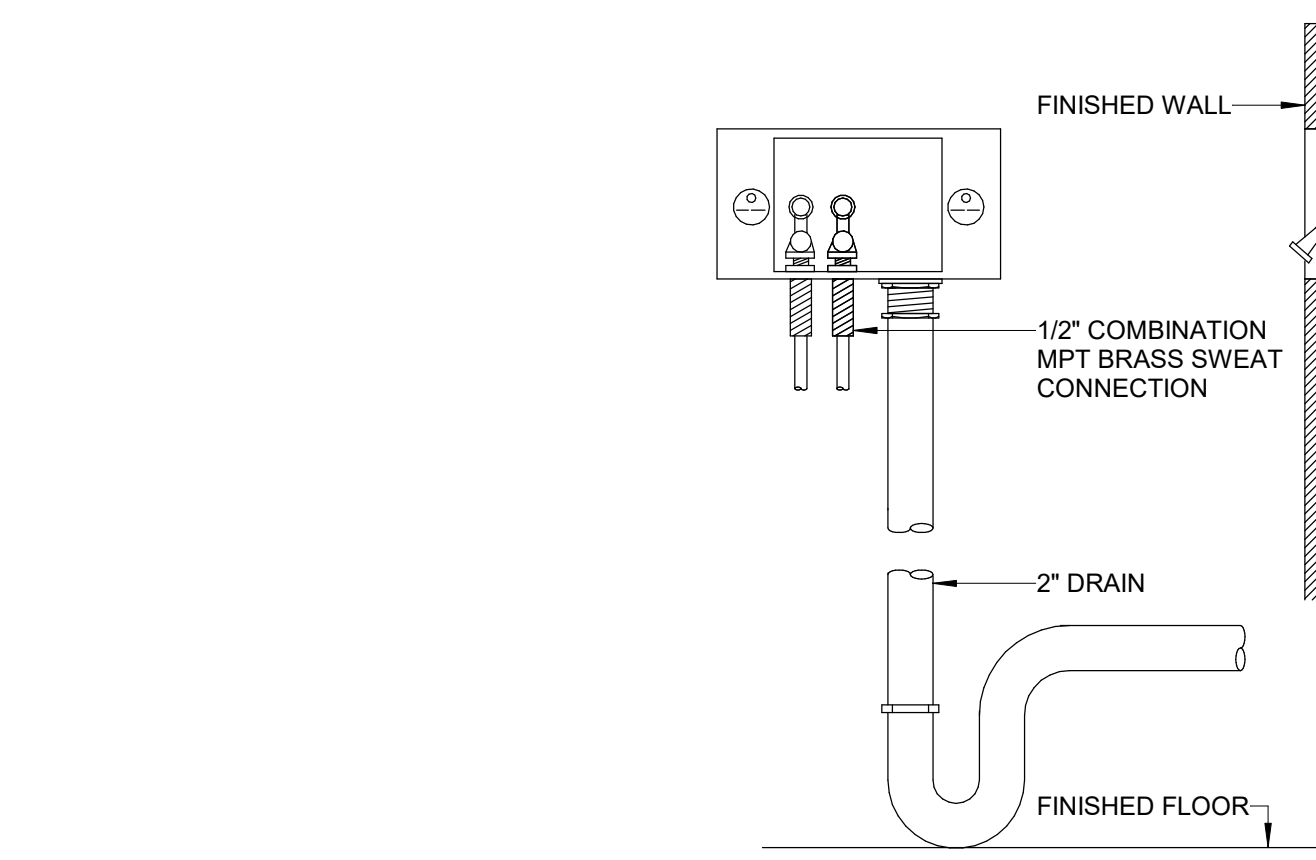
EXPANSION TANK SCHEDULE

MARK	AMTROL	LOCATION	GALLONS	ACCEPTANCE	REMARKS
ET-1	ST-5C	MECHANICAL 1086	2.1	0.9	-

13 DETAIL OF MAKEUP CONNECTION
SCALE: NOT TO SCALE



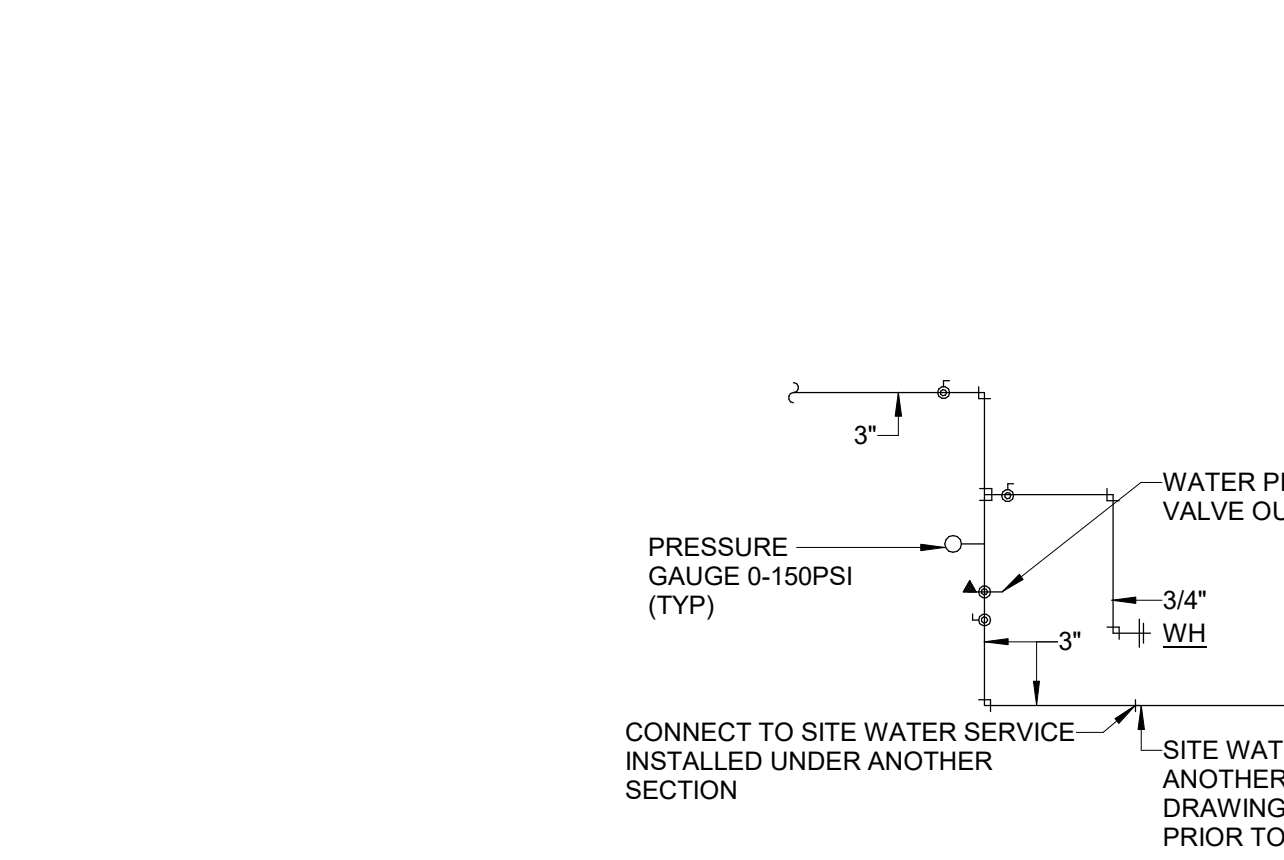
10 DETAIL OF PIPING AT TMV UNDER ADA/PUBLIC LAVATORY
SCALE: NOT TO SCALE



5 DETAIL OF WASHING MACHINE SUPPLY AND DRAIN UNIT
SCALE: NOT TO SCALE



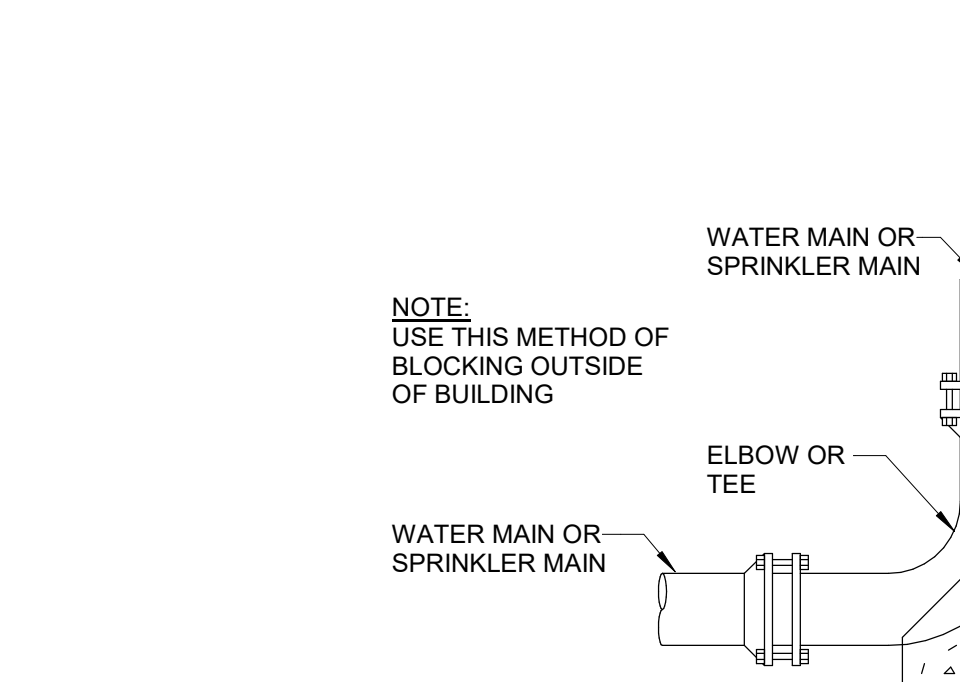
9 STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL
SCALE: NOT TO SCALE



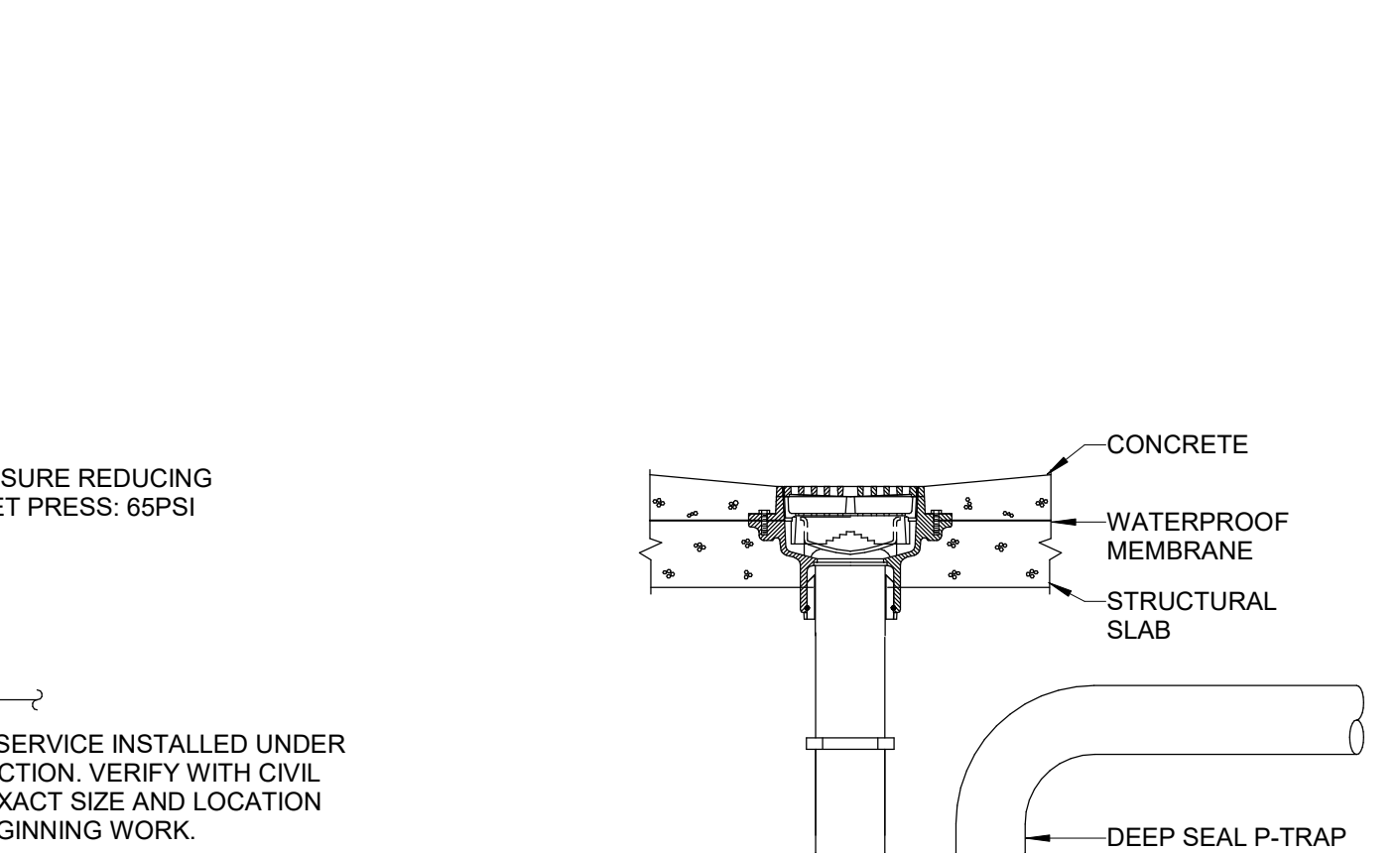
4 DETAIL OF WATER SERVICE ENTRY W/ HB & WH
SCALE: NOT TO SCALE



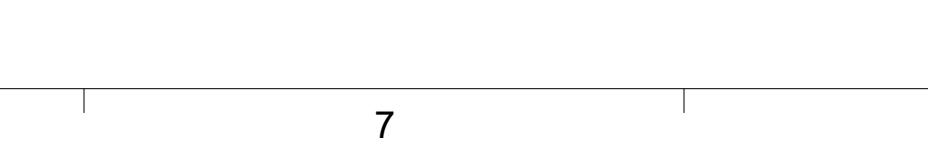
12 DETAIL OF FLOOR SINK
SCALE: NOT TO SCALE



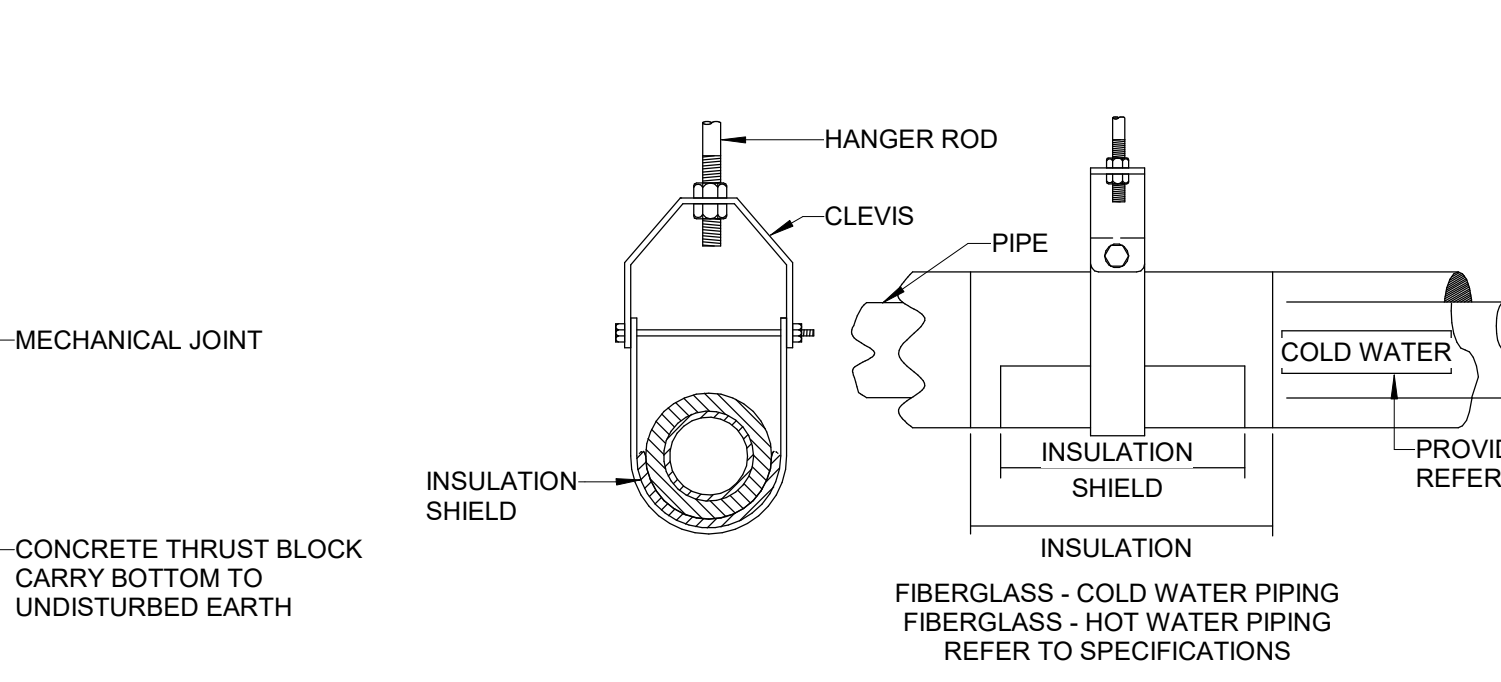
8 DETAIL OF CONCRETE THRUST BLOCK
SCALE: NOT TO SCALE



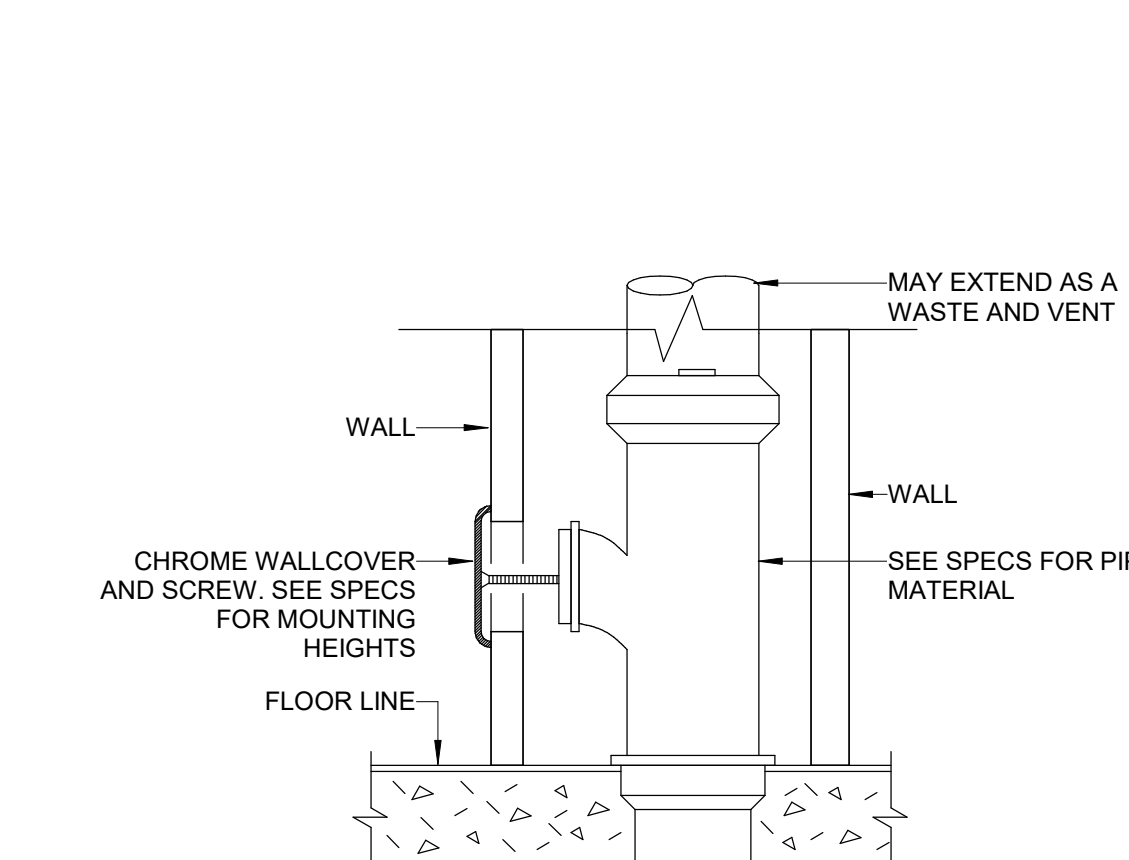
3 DETAIL OF FLOOR DRAIN
SCALE: NOT TO SCALE



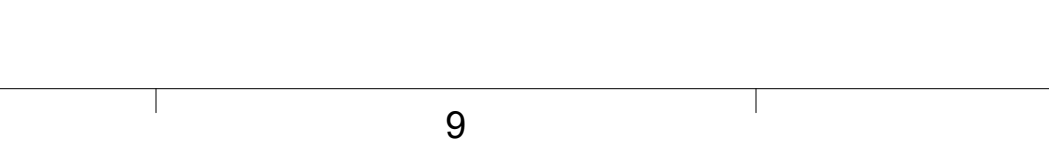
11 HEATER
SCALE: NOT TO SCALE



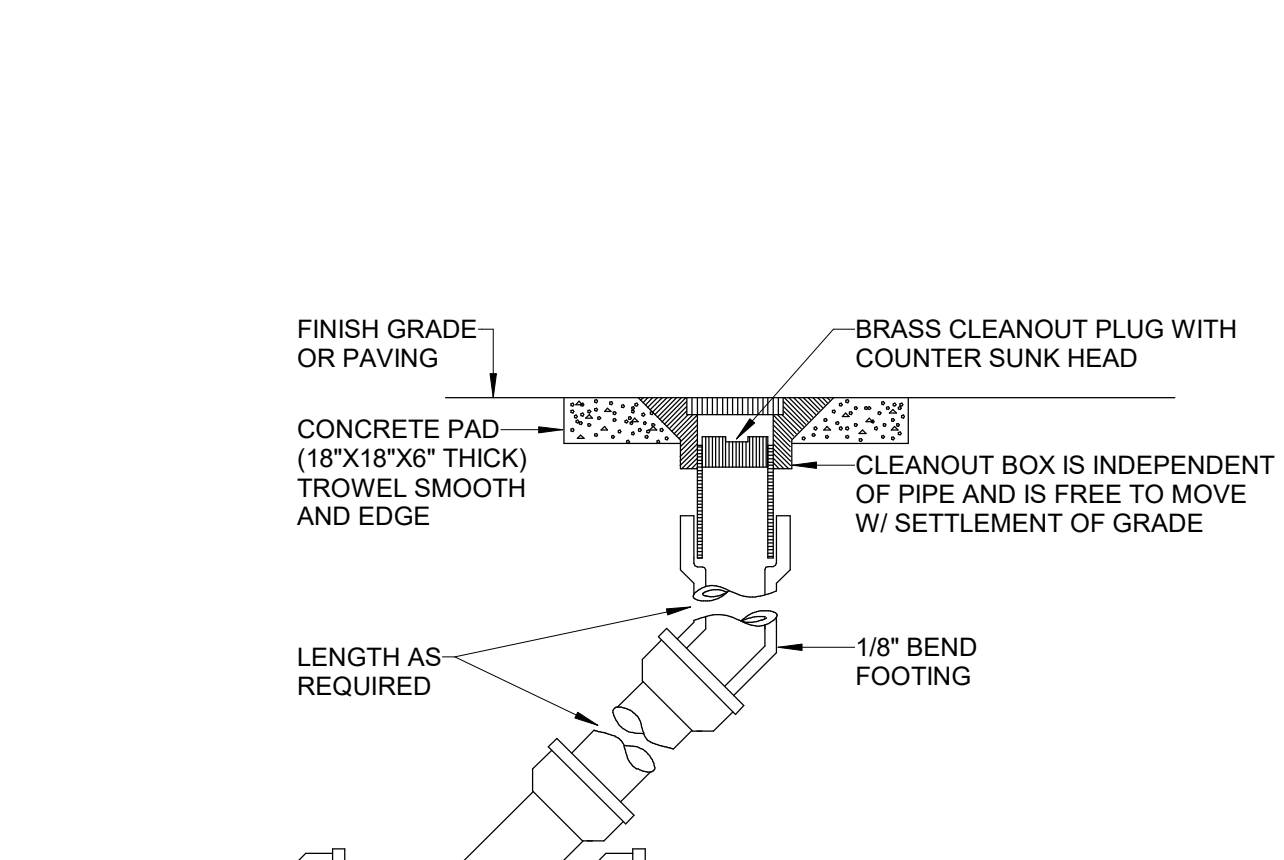
7 DETAIL OF ADJUSTABLE CLEVIS HANGER
SCALE: NOT TO SCALE



2 DETAIL OF WALL CLEANOUT
SCALE: NOT TO SCALE

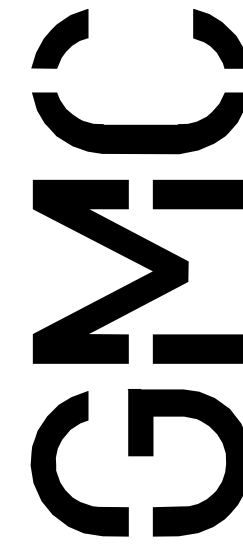


6 DETAIL OF PIPING IDENTIFICATION LABEL
SCALE: NOT TO SCALE




1 DETAIL OF CLEANOUT TO GRADE
SCALE: NOT TO SCALE





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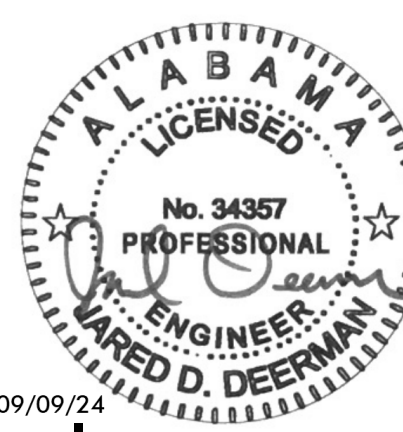
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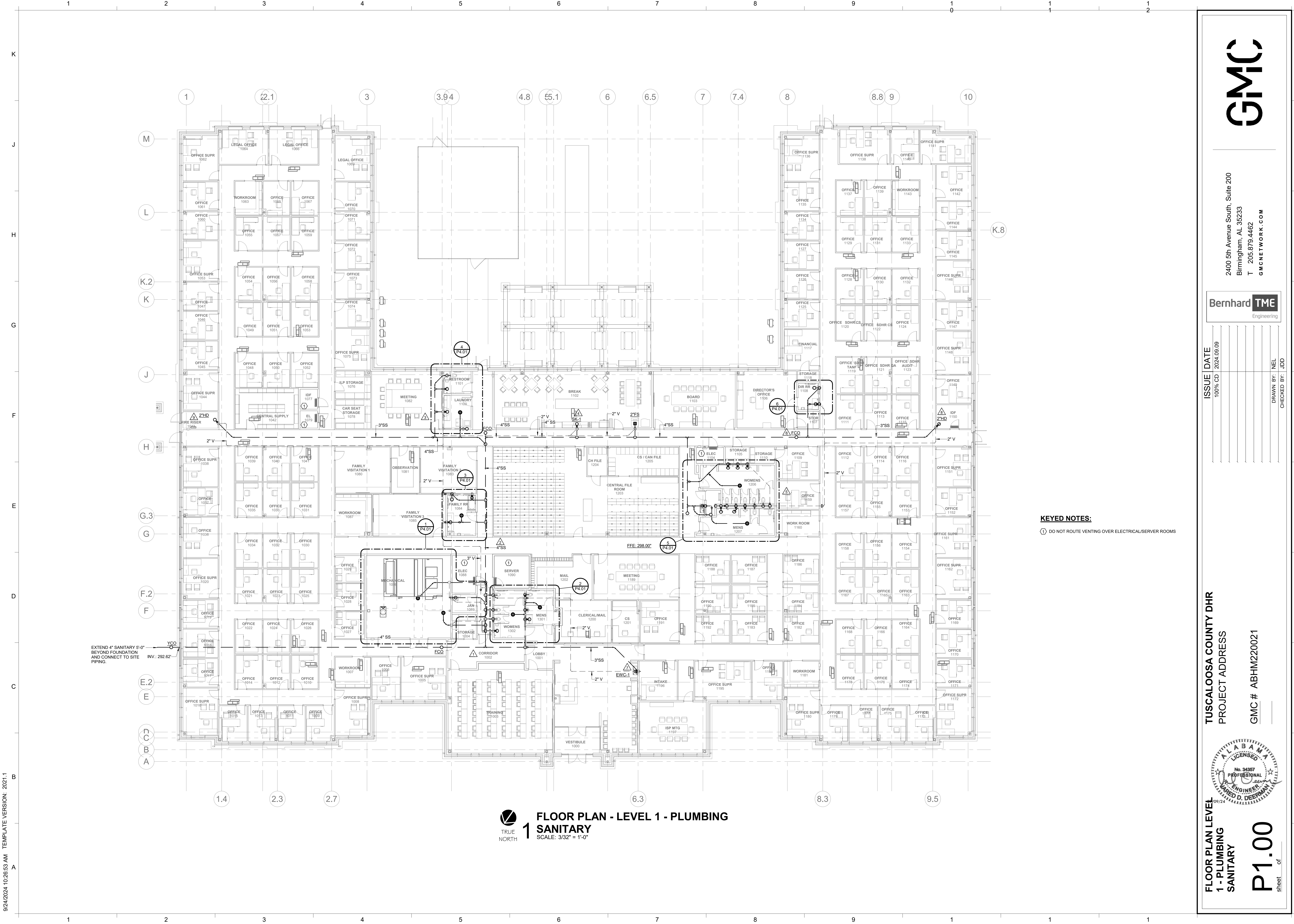
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LEGENDS, NOTES AND SCHEDULES - PLUMBING

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FLOOR PLAN - LEVEL 1 - PLUMBING
1 SANITARY
SCALE: 3/32" = 1'-0"



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Engineering

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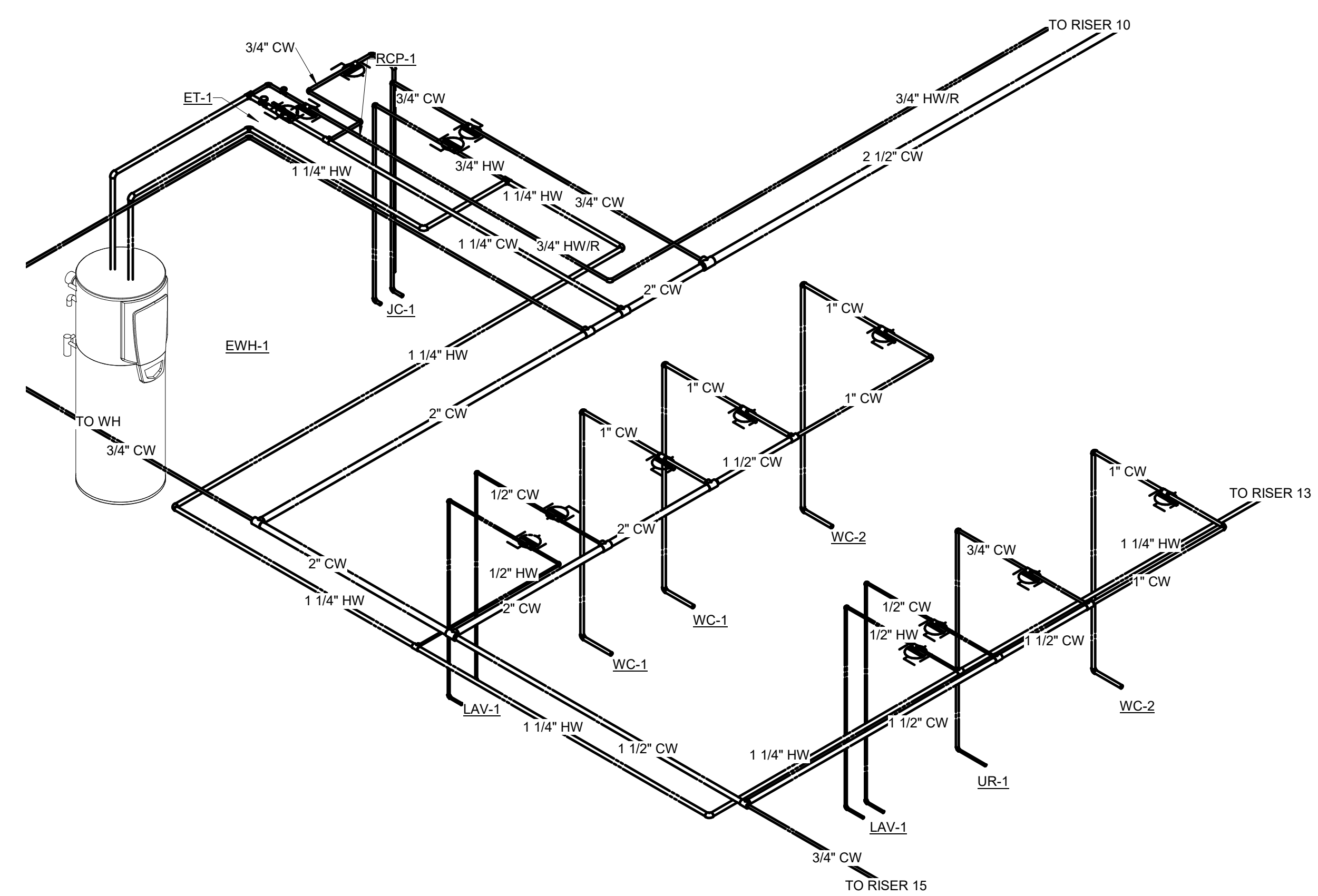
KEYED NOTES:
① DO NOT ROUTE VENTING OVER ELECTRICAL/SERVER ROOMS

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PROJECT ADDRESS

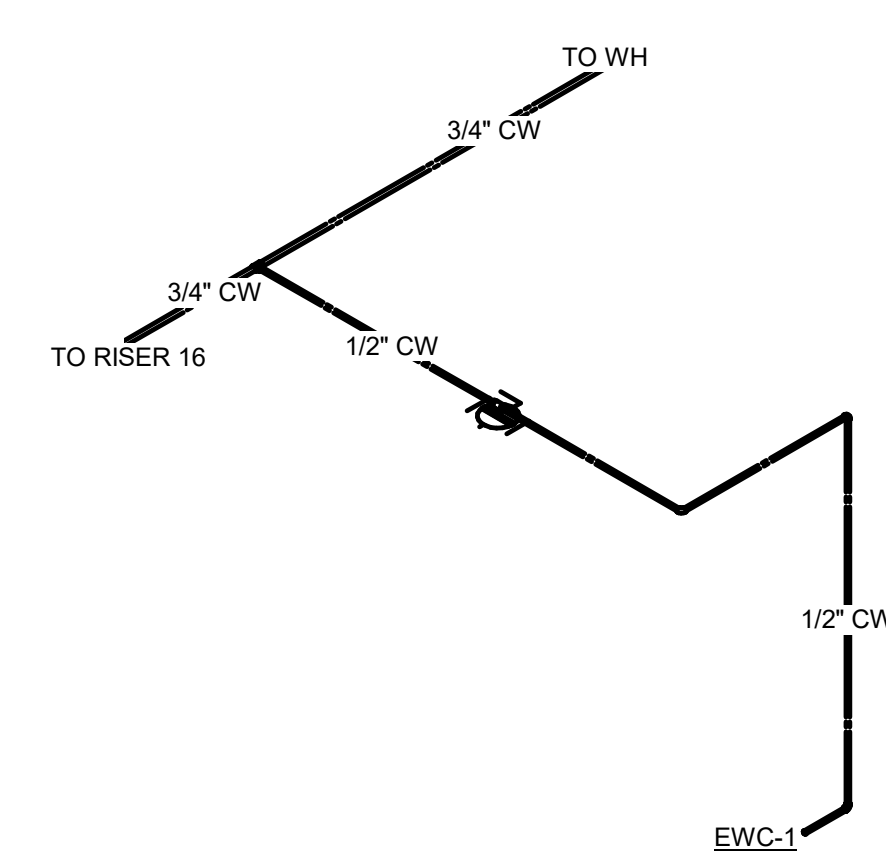
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FLOOR PLAN LEVEL
1 - PLUMBING
SANITARY

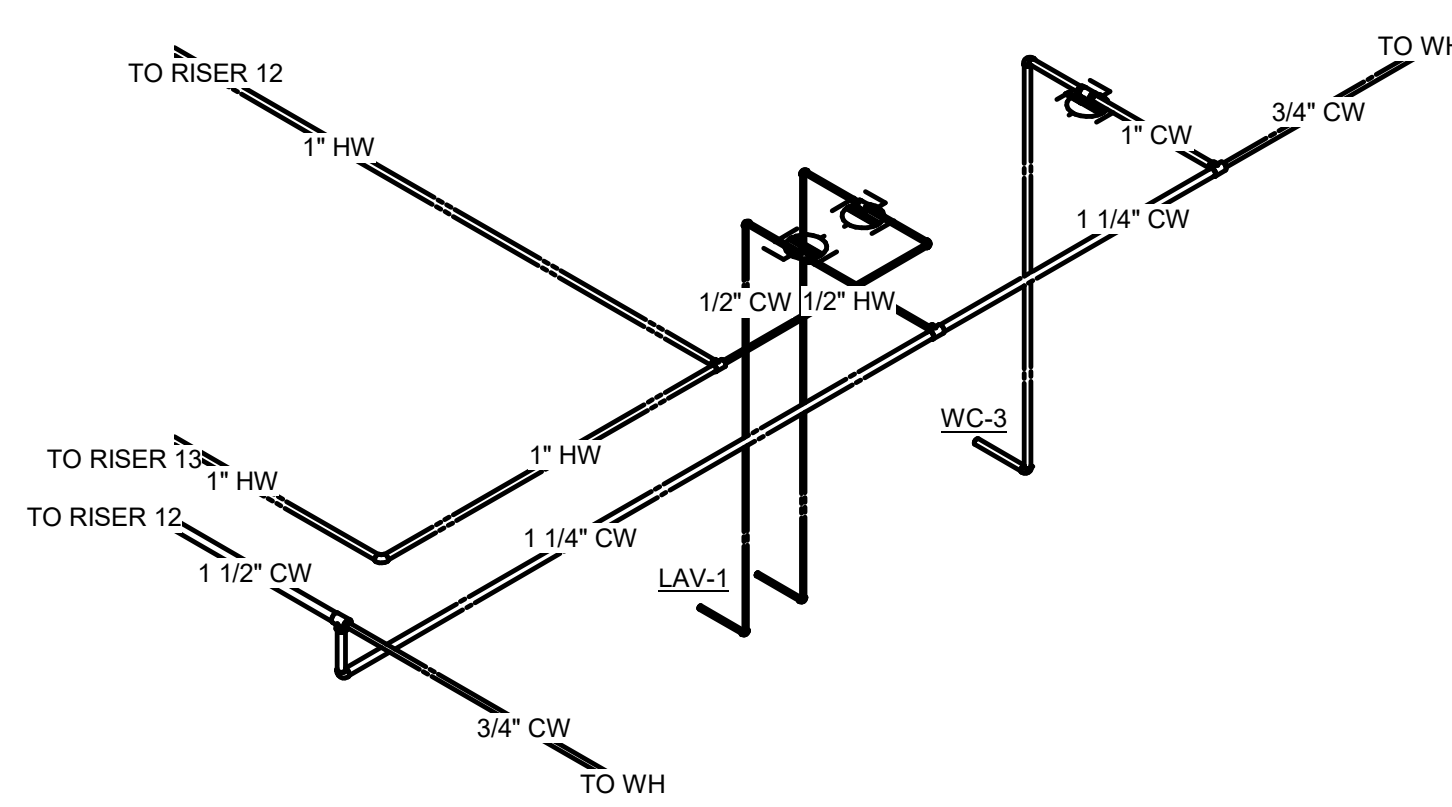
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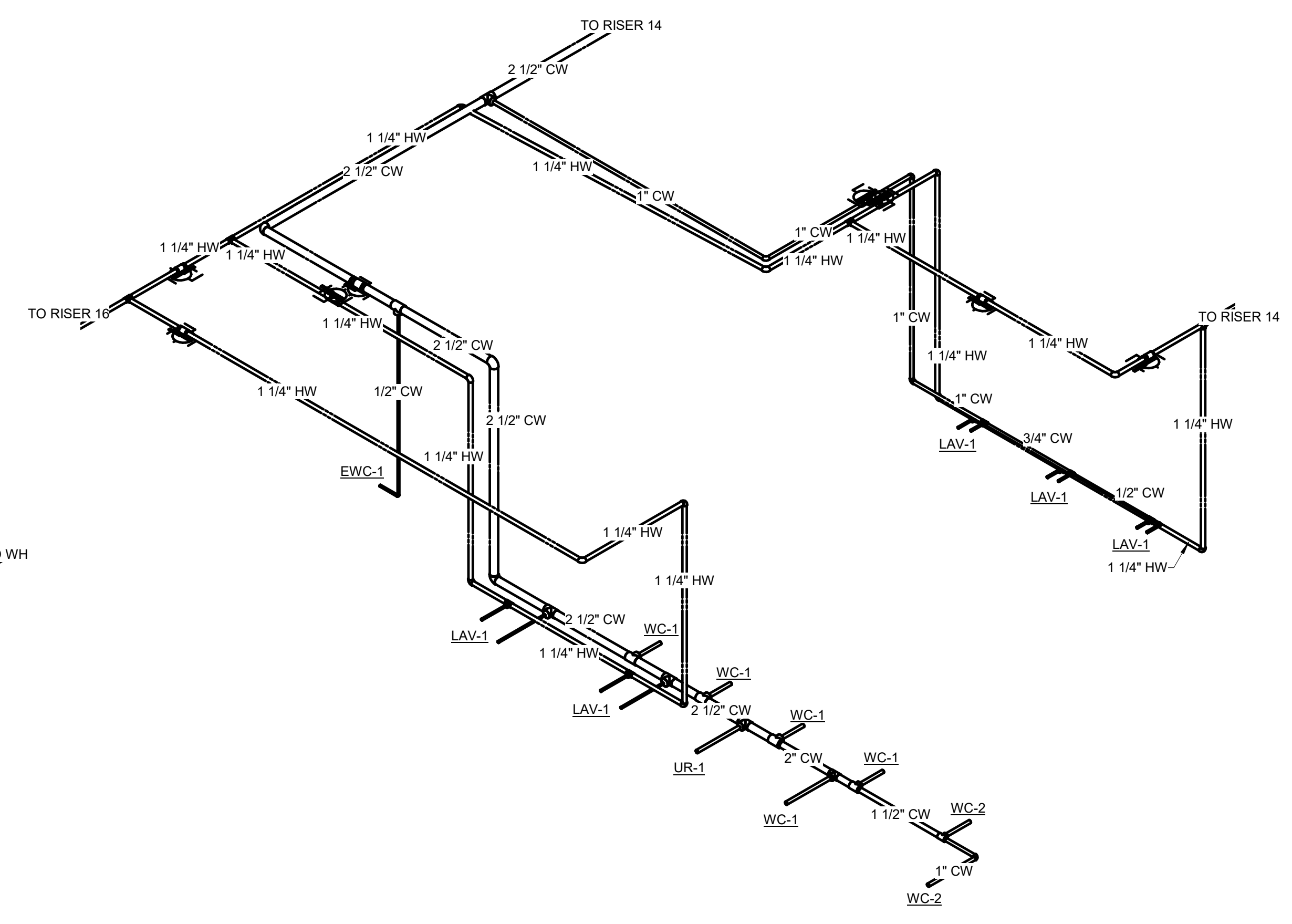
16 RISER 16 - JAN 1089/MENS 1301/WOMENS 1302
SCALE:



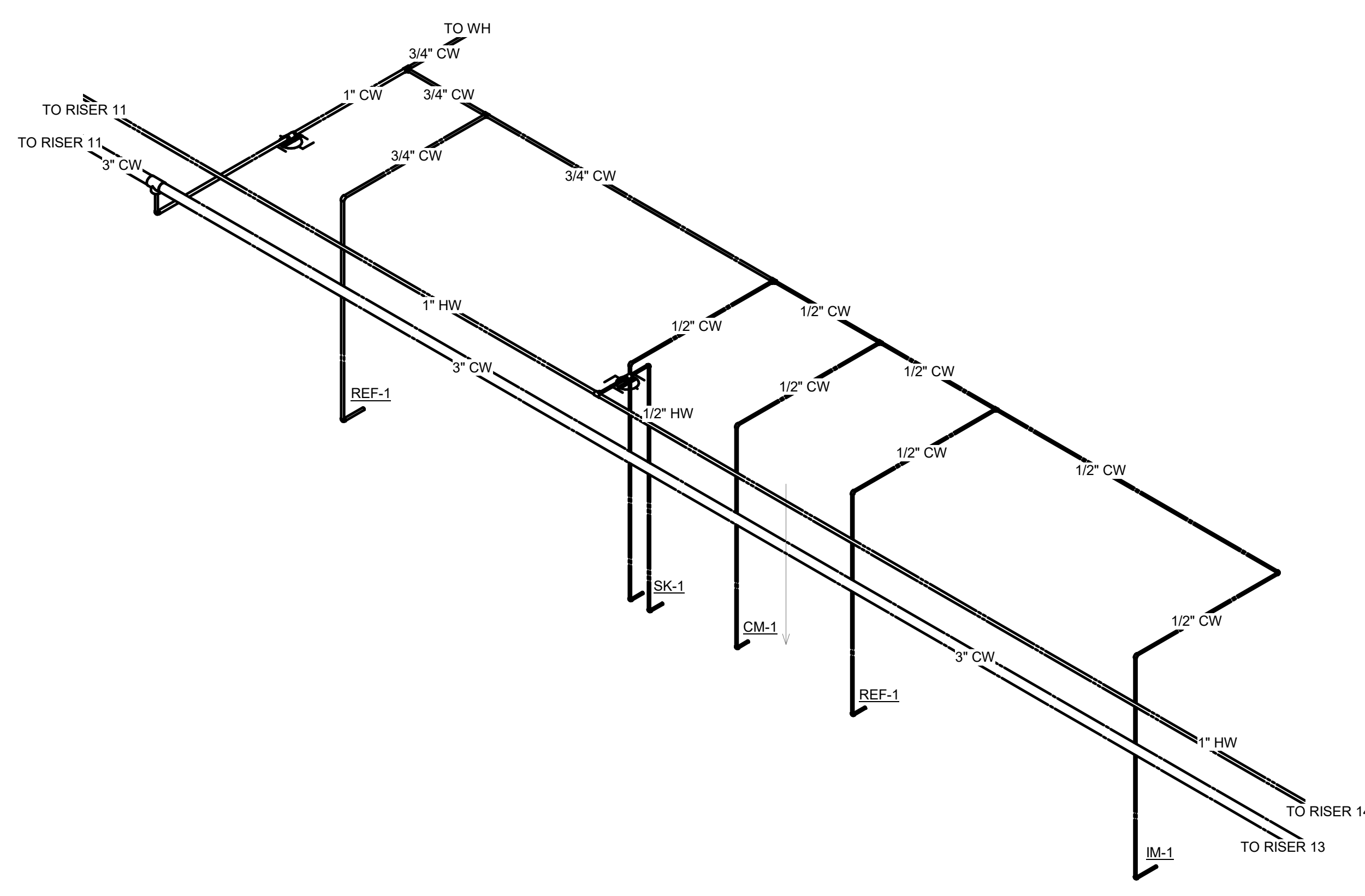
15 RISER 15 - LOBBY 1001 EWC
SCALE:



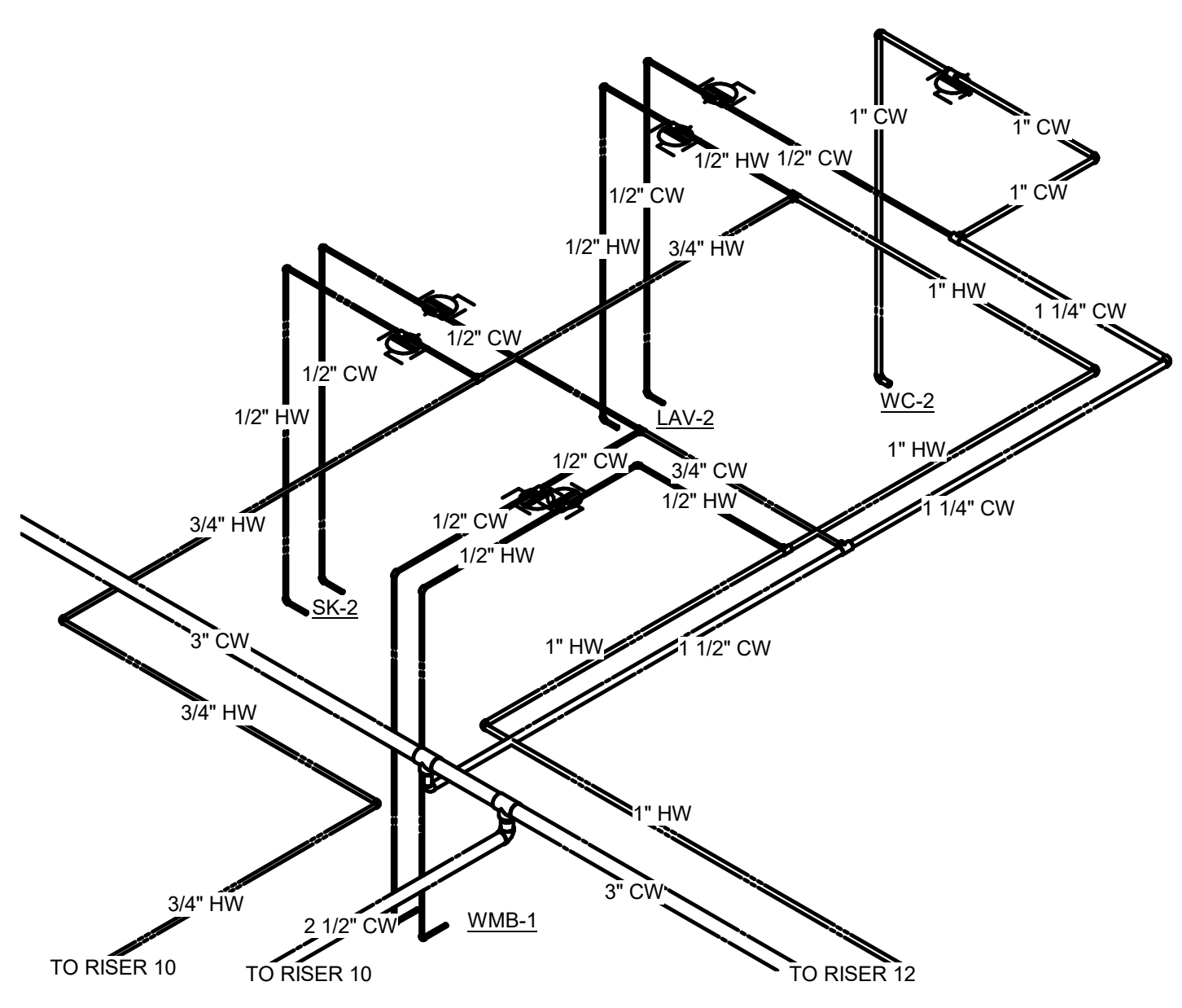
14 RISER 14 - DIR RR 1108
SCALE:



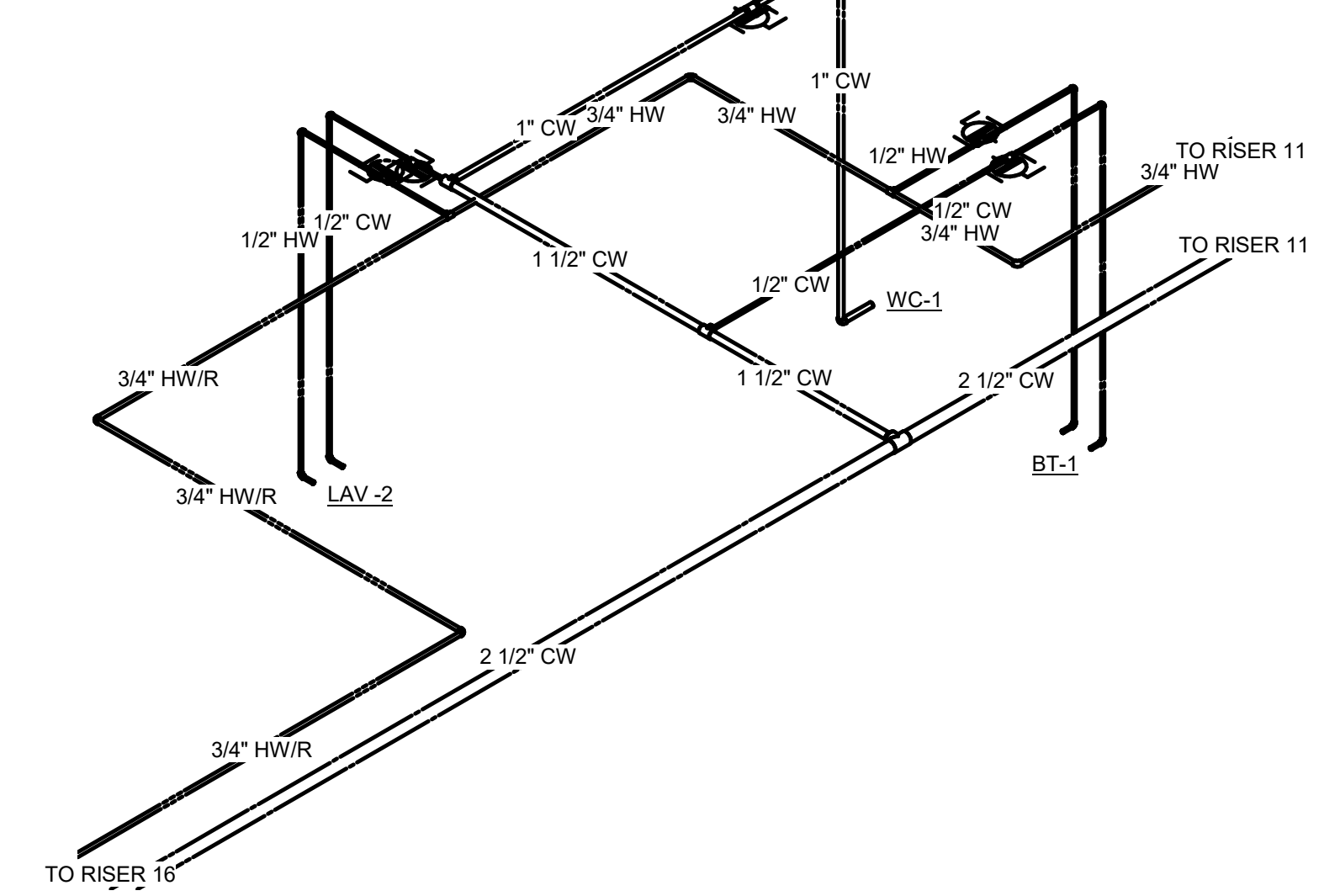
13 RISER 13 - WOMENS 1206/MENS 1207
SCALE:



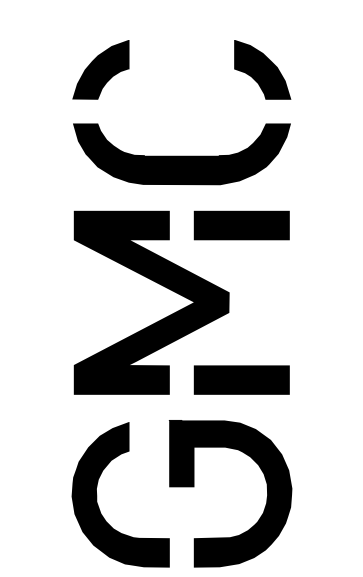
12 RISER 12 - BREAK 1102
SCALE:



11 RISER 11 - LAUNDRY 1100/RESTROOM 1101
SCALE:



10 RISER 10 - FAMILY RR 1084
SCALE:



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PROJECT ADDRESS

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RISERS - PLUMBING

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FIRE PROTECTION CROSS MAINS

FIRE PROTECTION CROSS MAINS HAVE BEEN SHOWN AS A PLACEHOLDER - FOR GENERAL COORDINATION. FINAL SIZES AND ROUTINGS OF THE CROSS MAINS SHALL BE DETERMINED BY THE INSTALLING FIRE SPRINKLER CONTRACTOR, BUT EFFORTS TO USE THE LOCATIONS SHOWN HEREIN SHOULD BE MADE.

IT IS NOT THE INTENT OF THIS PIPE ROUTING TO SUGGEST THAT ONLY TREE SYSTEMS OR GRID SYSTEMS ARE TO BE USED, BUT TO ENSURE THERE ARE ENOUGH CROSS MAINS TO PROVIDE A POINT OF SUPPLY TO ALL AREAS & BRANCH LINES.

THE INSTALLING CONTRACTOR WILL NEED TO COORDINATE WITH ALL OTHER DISCIPLINES AT ALL TIMES, ESPECIALLY THE MECHANICAL CONTRACTOR, AS THERE WILL BE LIMITED SPACE ABOVE CEILINGS IN SOME AREAS.

FIRE PROTECTION SHOP DRAWING NOTES

BEFORE SUBMITTING FIRE PROTECTION SHOP DRAWINGS FOR REVIEW:

1. CONFIRM THAT FIRE PROTECTION SHOP DRAWINGS ARE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ALABAMA.
2. CONFIRM THAT EACH NODE POINT IN THE HYDRAULIC CALCULATIONS APPEARS ON THE FIRE PROTECTION SHOP DRAWINGS AND THAT NOMENCLATURE MATCHES. THIS INCLUDES NODE POINTS ON SITE SUCH AS THE BACKFLOW PREVENTER AND SOURCE.
3. CONFIRM THAT PIPE SIZES, LENGTHS, AND ELEVATIONS NOTED IN HYDRAULIC CALCULATIONS MATCH THE PIPE SIZES, LENGTHS, AND ELEVATIONS INDICATED ON THE FIRE PROTECTION SHOP DRAWINGS.
4. CONFIRM THAT NODE POINTS, PIPE SIZES, LENGTHS, AND ELEVATIONS DO NOT OVERLAP ARCHITECTURAL FEATURES OR OTHER GRAPHIC ELEMENTS SO THEY BECOME DIFFICULT TO READ WHEN PLOTTED.
5. CONFIRM THAT WHEN MULTIPLE NODE POINTS ARE LOCATED IN CLOSE PROXIMITY TO ONE ANOTHER THAT LEADER LINES ARE USED TO IDENTIFY WHERE THE NODE POINT IS LOCATED IN THE DESIGN.
6. CONFIRM THAT HYDRAULIC CALCULATIONS ACCURATELY ACCOUNT FOR PIPE ROUTING (ELBOWS, TEES, ELEVATION OFFSETS, ETC.) INDICATED IN THE FIRE PROTECTION SHOP DRAWINGS.
7. CONFIRM THAT REMOTE AREAS ARE OUTLINED AND IDENTIFIED ON FIRE PROTECTION SHOP DRAWINGS AND THAT NOMENCLATURE MATCHES HYDRAULIC CALCULATIONS.

WATER FLOW TEST:

STATIC PRESSURE: 75PSI
 RESIDUAL PRESSURE: 45PSI
 MEASURED FLOW: 1,000GPM
 PERFORMED BY: CITY OF TUSCALOOSA
 WITNESSED BY: GLOBAL FIRE PROTECTION
 DATE: 08/2/24
 TIME: 9:00AM
 LOCATION: CULVER ROAD

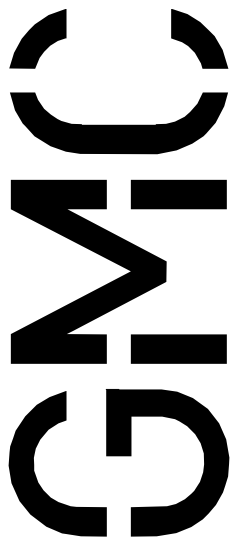
NOTE: CONTRACTORS SHALL USE THIS WATER FLOW TEST FOR BID PURPOSES ONLY.

SPRINKLER NOTES:

1. PROVIDE A NFPA 13 COMPLIANT SYSTEM TO PROVIDE TOTAL COVERAGE FOR THE BUILDING.
2. ALL PIPING 1-1/2" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED JOINTS AND CAST IRON OR MALLEABLE IRON FITTINGS. PROVIDE HANGERS PER NFPA 13 SPACING.
3. PIPING 2" AND LARGER MAY BE SCHEDULE 10 PIPE WITH ROLL GROOVED JOINTS. HANGER SPACING TO BE PER NFPA 13 REQUIREMENTS.
4. SPRINKLER HEADS SHALL BE QUICK RESPONSE, GLASS BULB EQUAL TO VIKING MODEL M. INSTALL SPRINKLER HEADS IN CENTER OF CEILING TILE.
5. PIPING IS TO BE INSTALLED IN A MANNER AS TO HIDE PIPING AS MUCH AS POSSIBLE.
6. PROVIDE A PIPING PLAN SHOWING COORDINATION OF SPRINKLER PIPING WITH ALL ITEMS ABOVE CEILING.
7. PROVIDE SHOP DRAWINGS INCLUDING A REFLECTED CEILING PLAN INDICATING SPRINKLER HEADS, LIGHTS, AND HVAC CEILING DEVICES.
8. SEE ARCHITECT DRAWINGS FOR CEILING PLAN AND HEIGHTS.
9. PER STATE BUILDING COMMISSION REQUIREMENTS, HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS FOR BUILDING FIRE PROTECTION SYSTEMS MUST BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE OF ALABAMA AND BEAR THEIR LICENSURE SEAL WITH SIGNATURE AND DATE.
10. SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE STATE OF ALABAMA FIRE MARSHAL OFFICE.
11. PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING OR SURROUNDING AREA IS TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE 100% RESPONSIBLE TO PROVIDE AND REMOVE SPRINKLER PROTECTIONS AFTER PAINTING IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

WET SPRINKLER SYSTEM NOTES:

- A. WET SPRINKLER SYSTEM DESIGN AND INSTALLATION, BASE SYSTEM DESIGN HYDRAULIC CALCULATIONS USING THE AREA/DENSITY METHOD ON THE FOLLOWING CRITERIA AND IN ACCORDANCE WITH NFPA 13 LATEST EDITION.
1. SPRINKLER PROTECTION
 - a. ALL OFFICE, WAITING AREAS, EDUCATIONAL AREAS, DINING AREAS, EAVES AND OVERHANGS (WITH NOT COMBUSTIBLE CONSTRUCTION BENEATH), AND CORRIDORS: LIGHT HAZARD: 0.10GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE 1500 SQ.FT.
 - b. MECHANICAL EQUIPMENT ROOMS, ELECTRICAL CLOSETS, AND STORAGE BETWEEN 100 AND 1500SQ.FT.: ORDINARY HAZARD GROUP 1: 0.15GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE 1500SQ.FT.
 - c. LAUNDRY, STORAGE ROOMS OVER 250 SQ.FT.: ORDINARY GROUP 2: 0.20GPM/SQ.FT. OVER THE HYDRAULICALLY MOST REMOTE 1,500SQ.FT.
 - d. FILE STORAGE AREAS WITH "ROLLING FILES" RACKS: ORDINARY GROUP 2 FOR THE ENTIRE AREA OR SPACE UP TO 1,500SQ.FT. AREA OF SPRINKLER OPERATION.
 - e. WHERE AREAS ARE NOT PHYSICALLY SEPARATED BY A BARRIER OR PARTITION CAPABLE OF DELAYING HEAT FROM A FIRE IN ONE AREA FROM FUSING SPRINKLERS IN THE ADJACENT AREA, THE REQUIRED SPRINKLER PROTECTION FOR THE MORE DEMANDING DESIGN BASIS SHALL EXTEND 15FT. BEYOND ITS PERIMETER.
 2. ADD WATER ALLOWANCE OF 250 GPM FOR INSIDE AND OUTSIDE HOSE STREAMS TO THE SPRINKLER REQUIREMENTS AT THE CONNECTION TO THE DISTRIBUTION MAIN.
 3. HYDRAULIC CALCULATIONS: THE CALCULATED DEMAND INCLUDING THE HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PERCENT BELOW THE AVAILABLE SUPPLY CURVE.
 4. COMPLY WITH IBC & IFC (2021 EDITION), NFPA 13 (2021 EDITION), NFPA 14, STANDPIPES AND HOSE SYSTEMS, NFPA 24, PRIVATE SERVICE MAINS, NFPA 70, NATIONAL ELECTRIC CODE, NFPA 72, NATIONAL ALARM AND SIGNALING CODE, AND NFPA 101, LIFE SAFETY CODE (2021 EDITION).



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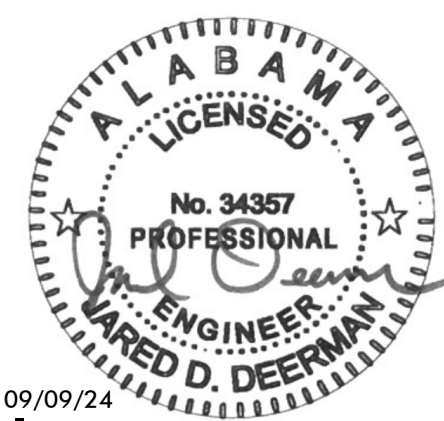


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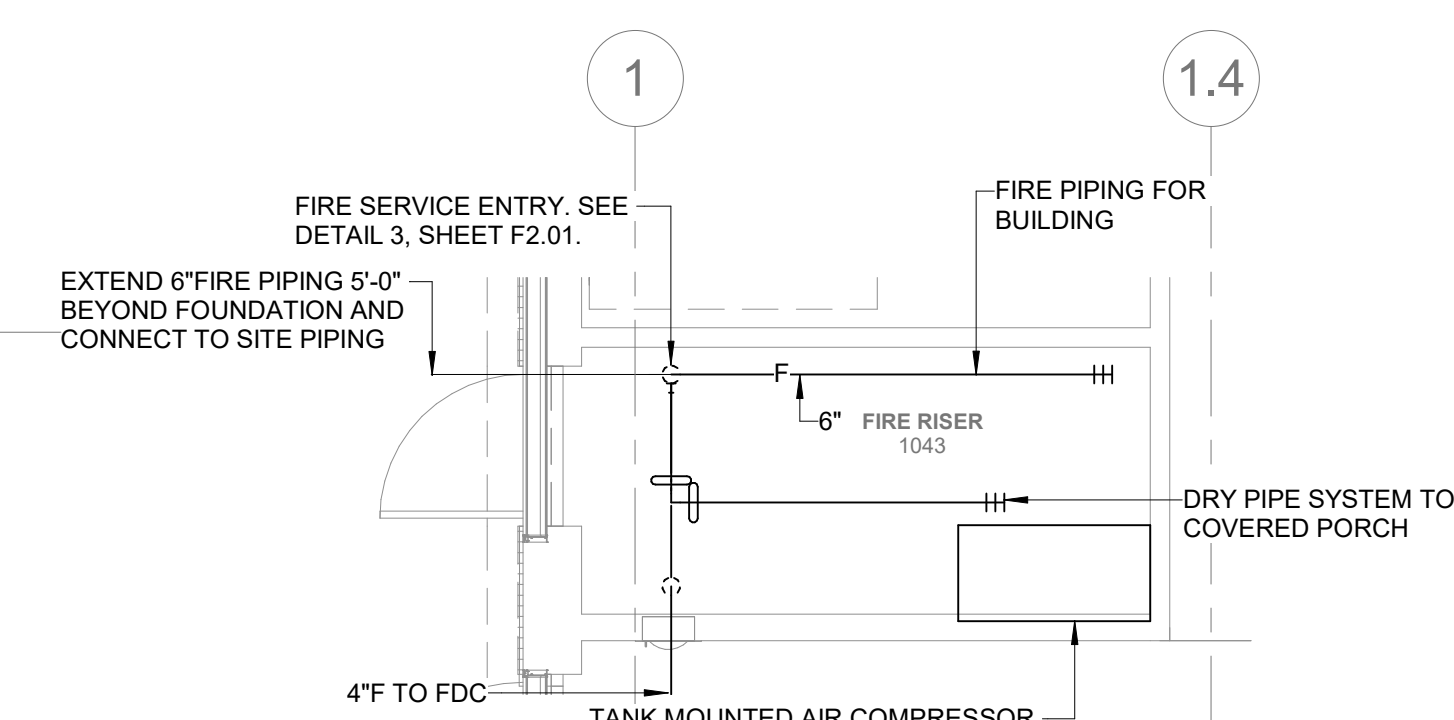
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GMC # ABHM220021



GENERAL NOTES -
 FIRE PROTECTION

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ENLARGED PLAN - FR 152 ROOM - FIRE PROTECTION
SCALE: 1/4" = 1'-0"

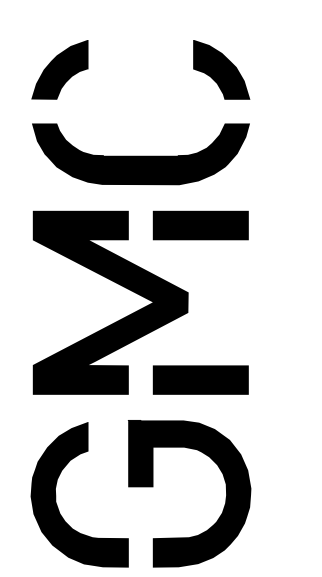
KEYED NOTES:

- ① PROVIDE RECESSED SPRINKLER HEADS IN ROOMS WITH LAY-IN CEILINGS. SEE DETAIL 6, SHEET F2.01.
- ② PROVIDE CONCEALED SPRINKLER HEADS IN ROOMS WITH HARD CEILINGS. SEE DETAIL 5, SHEET F2.01.
- ③ PROVIDE UPRIGHT SPRINKLER HEADS IN ROOMS WITH NO CEILINGS. SEE DETAILS 15/16, SHEET F2.01.
- ④ PROVIDE DRY SIDEWALL SPRINKLER HEADS FOR OVERHANG. SEE DETAIL 12, SHEET F2.01.

GENERAL NOTE:

THE ATTIC AREA IS NOT AN OCCUPIABLE SPACE AND IS NOT CONSTRUCTED OF COMBUSTIBLE MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLERS ARE NOT REQUIRED IN ATTIC.

FLOOR PLAN LEVEL 1 - FIRE PROTECTION
SCALE: 3/32" = 1'-0"



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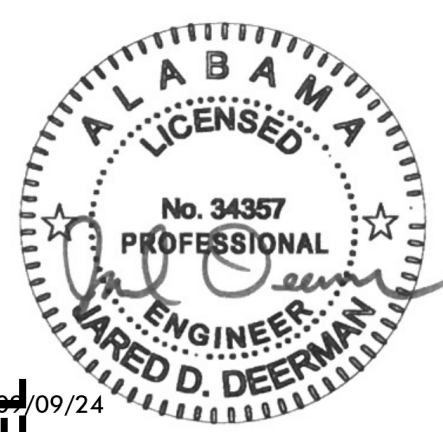


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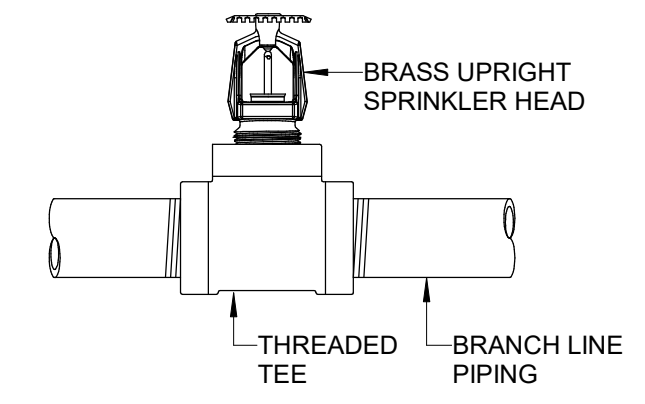
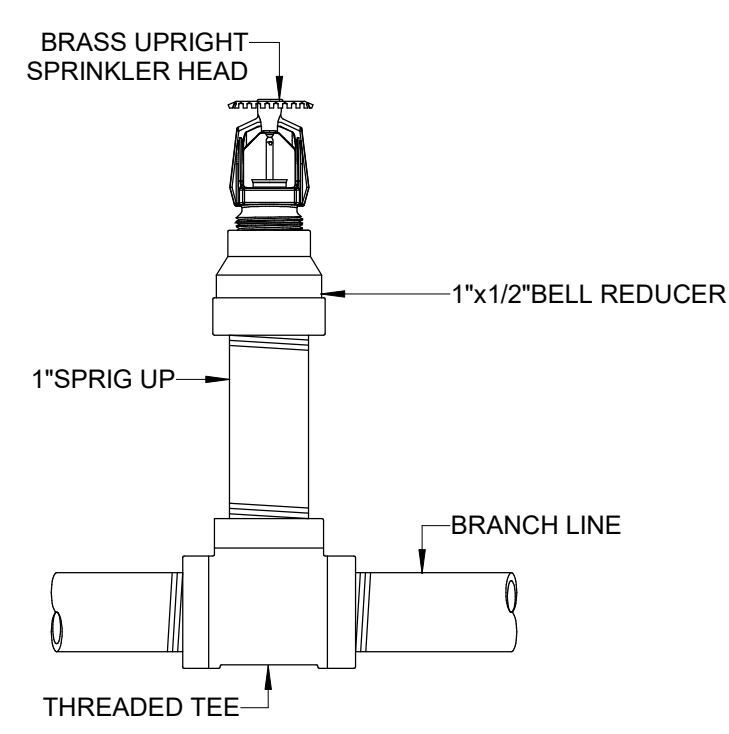
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FLOOR PLAN LEVEL
1 - FIRE PROTECTION

F1.00
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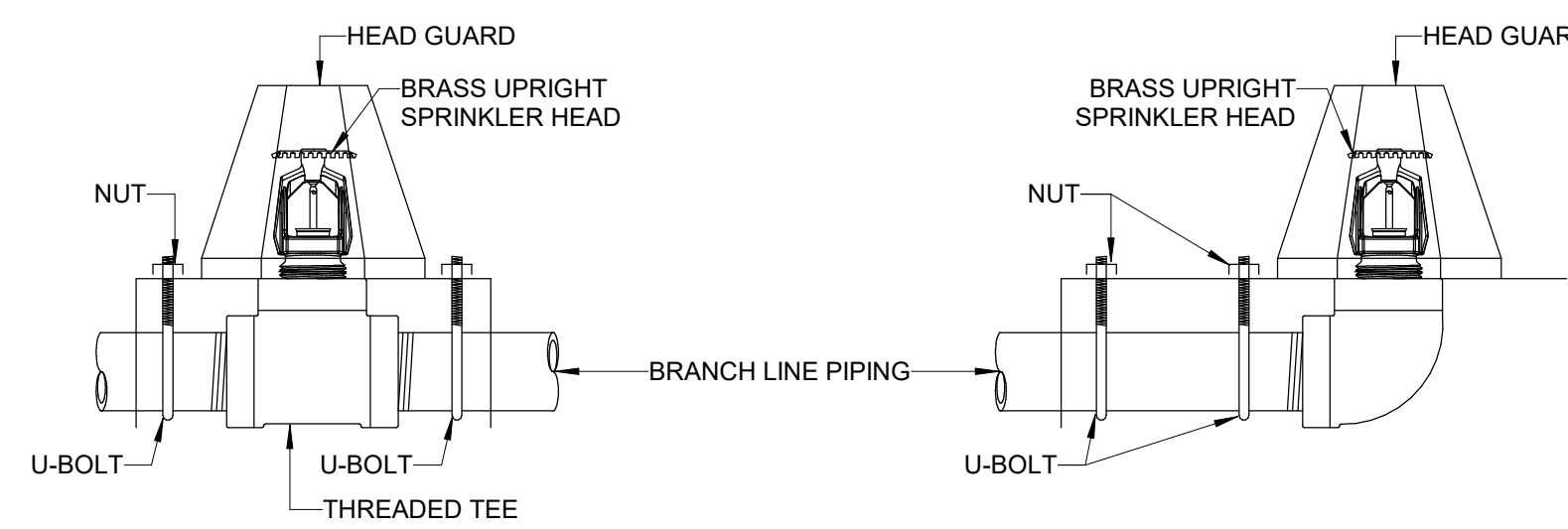
15 UPRIGHT SPRINKLER HEAD DETAIL
SCALE: NOT TO SCALE

16 UPRIGHT SPRINKLER HEAD ON 1" SPRIG DETAIL
SCALE: NOT TO SCALE

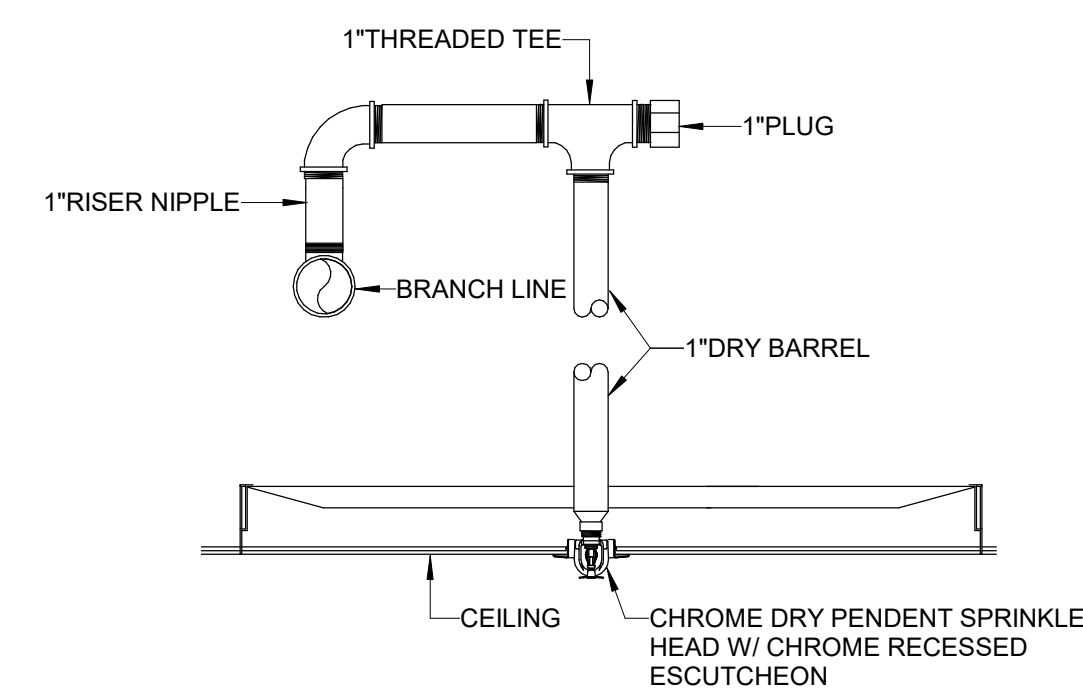
AMBIENT TEMPERATURE EXPOSED TO DISCHARGE END OF SPRINKLER	TEMPERATURES FOR HEATED AREA		
	40°F (4°C)	50°F (10°C)	60°F (16°C)
	MINIMUM EXPOSED BARREL LENGTH, INCHES (mm)		
40°F (4°C)	0	0	0
30°F (-1°C)	0	0	0
20°F (-7°C)	4 (100)	0	0
10°F (-12°C)	8 (200)	1 (25)	0
0°F (-18°C)	12 (305)	3 (75)	0
-10°F (-23°C)	14 (355)	4 (100)	1 (25)
-20°F (-29°C)	14 (355)	6 (150)	3 (75)
-30°F (-34°C)	16 (405)	8 (200)	4 (100)
-40°F (-40°C)	18 (455)	8 (200)	4 (100)
-50°F (-46°C)	20 (510)	10 (255)	6 (150)
-60°F (-51°C)	20 (510)	10 (255)	6 (150)

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-60°F (-51°C)	20 (510)	10 (255)	6 (150)

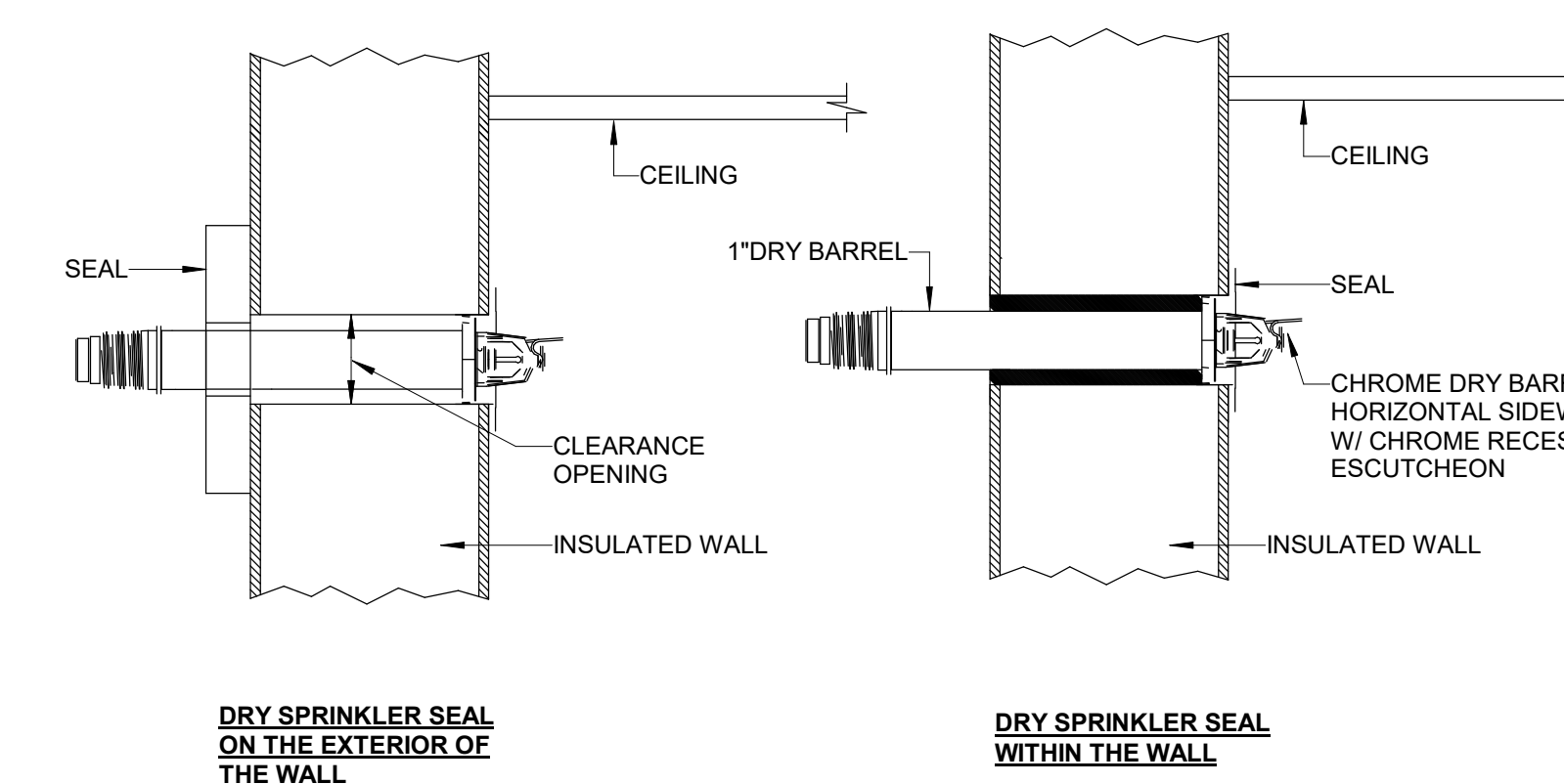
PROVIDE HEAD GUARDS ON ALL SPRINKLER HEADS AT OR BELOW AN ELEVATION OF 7'-6" AFF. OR THAT OTHERWISE MAY BE SUBJECT TO MECHANICAL DAMAGE, SUCH AS THOSE UNDER STAIRS, IN THE MECHANICAL ROOMS, OR ATTIC SPACE.



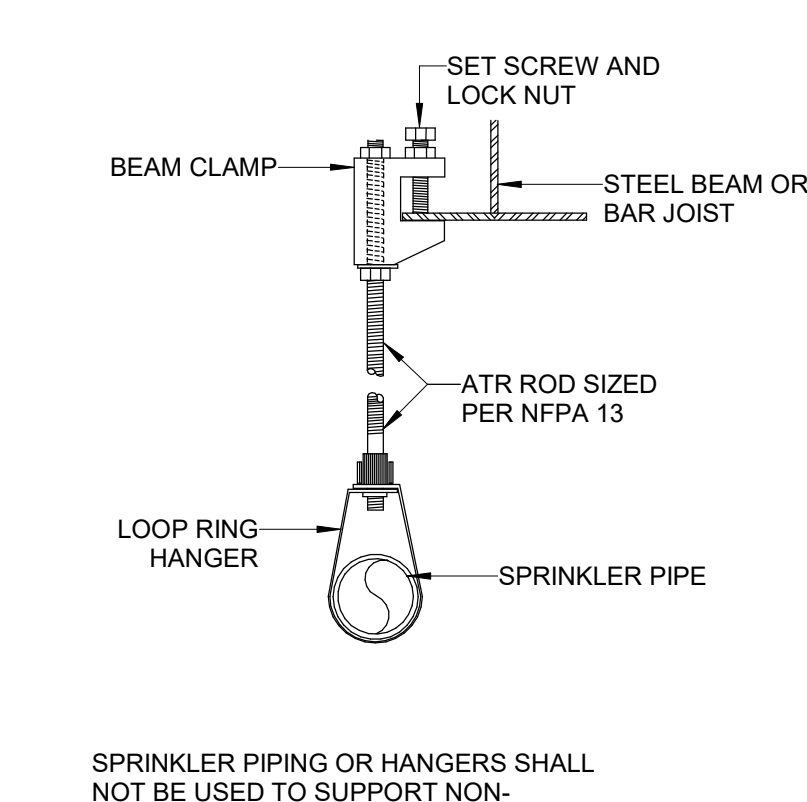
14 SPRINKLER HEAD GUARD DETAIL
SCALE: NOT TO SCALE



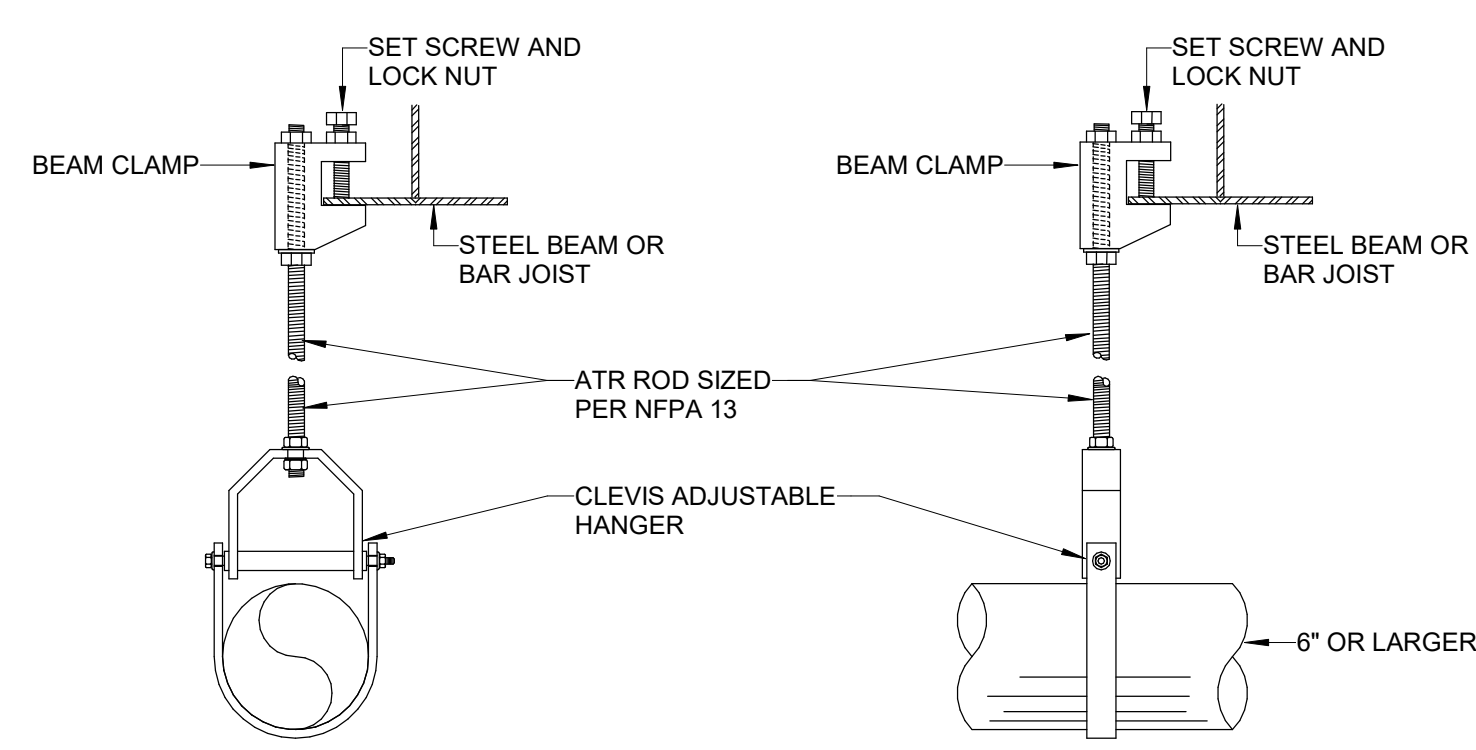
13 DRY BARREL PENDANT SPRINKLER DETAIL
SCALE: NOT TO SCALE



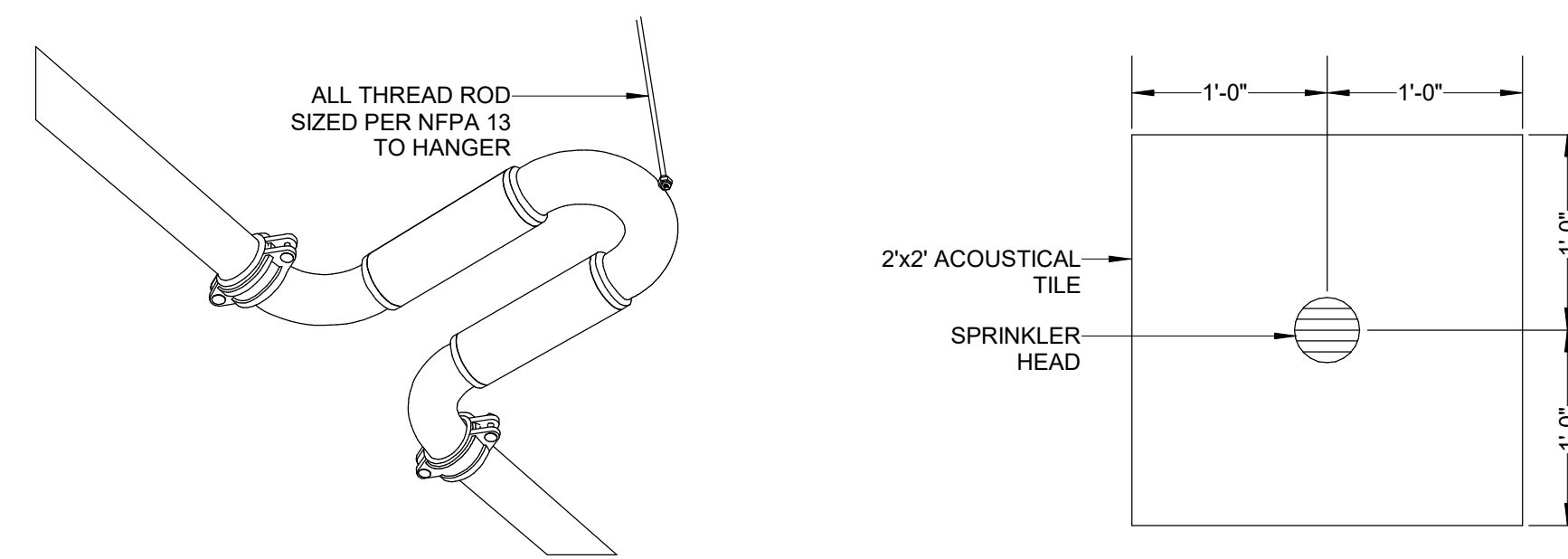
12 DRY BARREL HORIZONTAL SIDEWALL DETAIL
SCALE: NOT TO SCALE



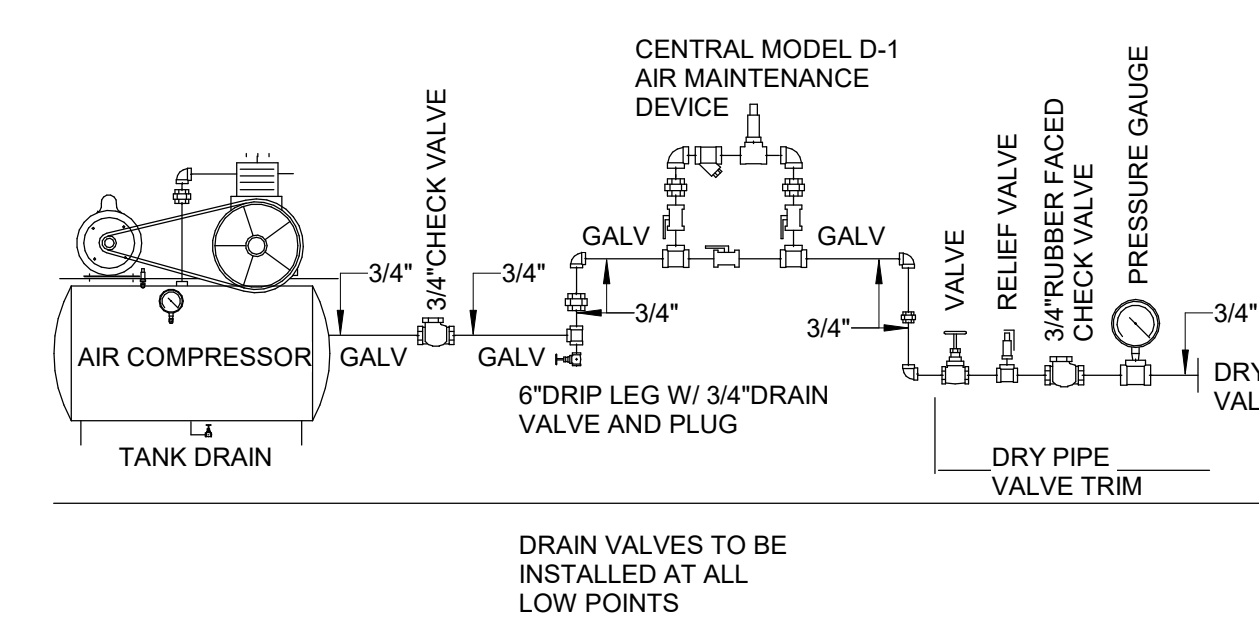
11 BEAM CLAMP HANGER DETAIL
SCALE: NOT TO SCALE



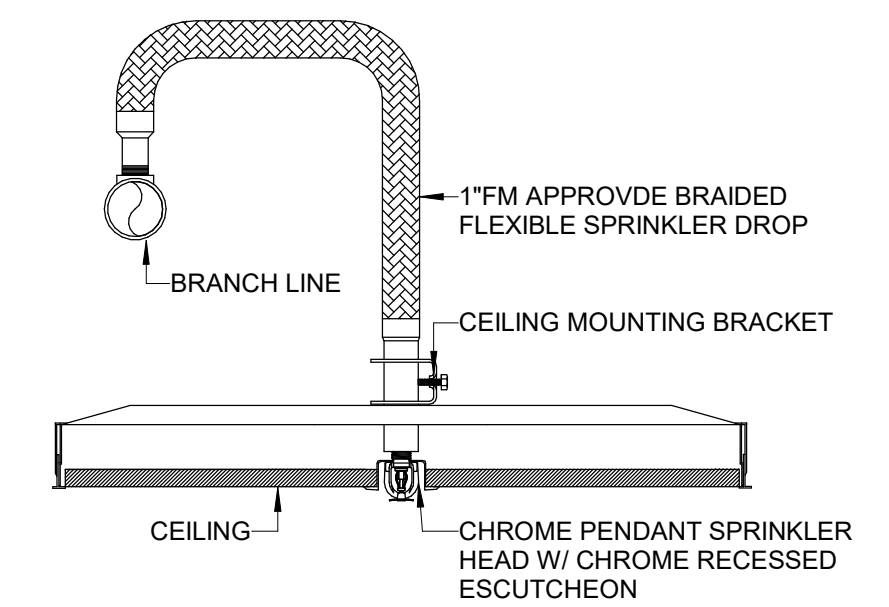
10 CLEVIS RING HANGER DETAIL
SCALE: NOT TO SCALE



9 FLEX LOOP DETAIL
SCALE: NOT TO SCALE

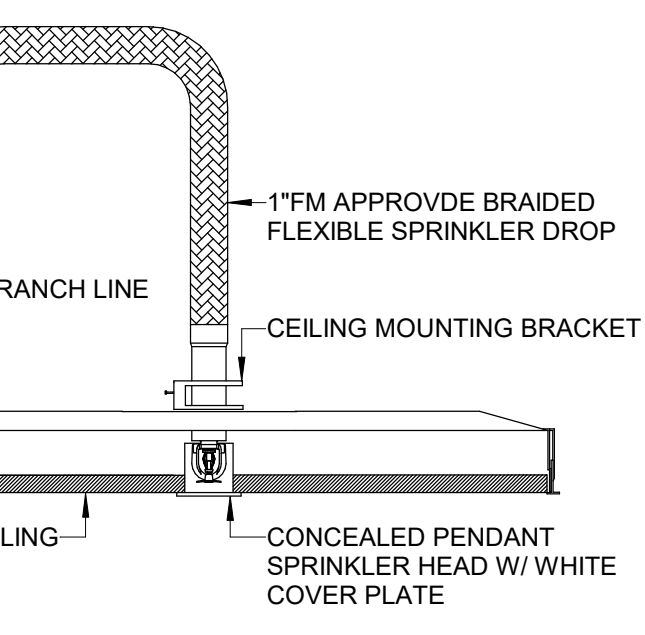


7 FP AIR COMPRESSOR DETAIL
SCALE: NOT TO SCALE

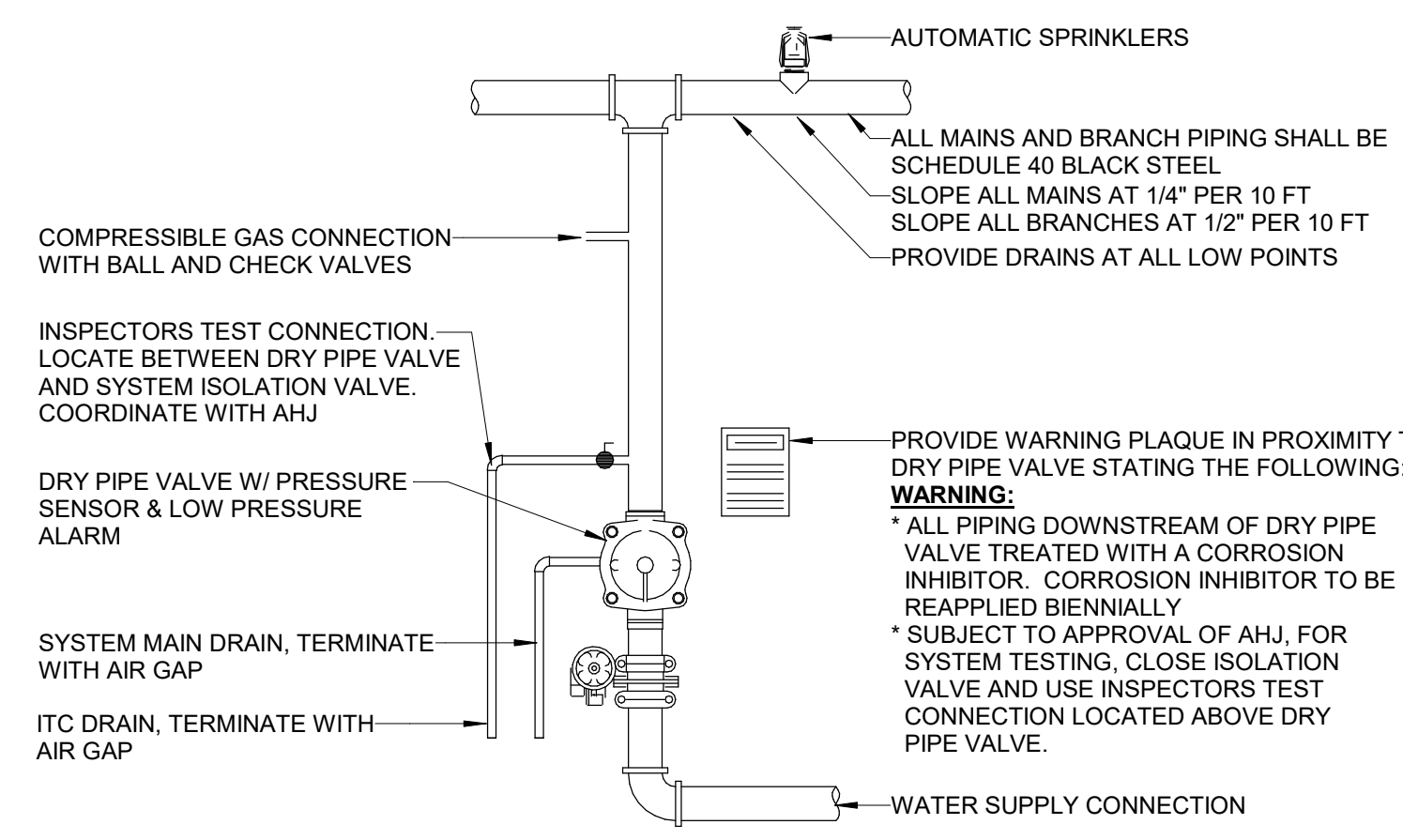


NOTES:
THIS INSTALLATION MAY BE USED IN LIEU OF THE HARD PIPE RETURN BEND INSTALLATION FOR SEISMIC EASE OF INSTALLATION, TENANT FLEXIBILITY, OWNER, OR SPECIFIC SPRINKLER HEAD LOCATION REQUIREMENTS.
INCLUDE THE EQUIVALENT PIPE LENGTH AS SPECIFIED IN THE MANUFACTURER'S PRODUCT DATA SHEETS IN THE HYDRAULIC CALCULATION REPORTS.

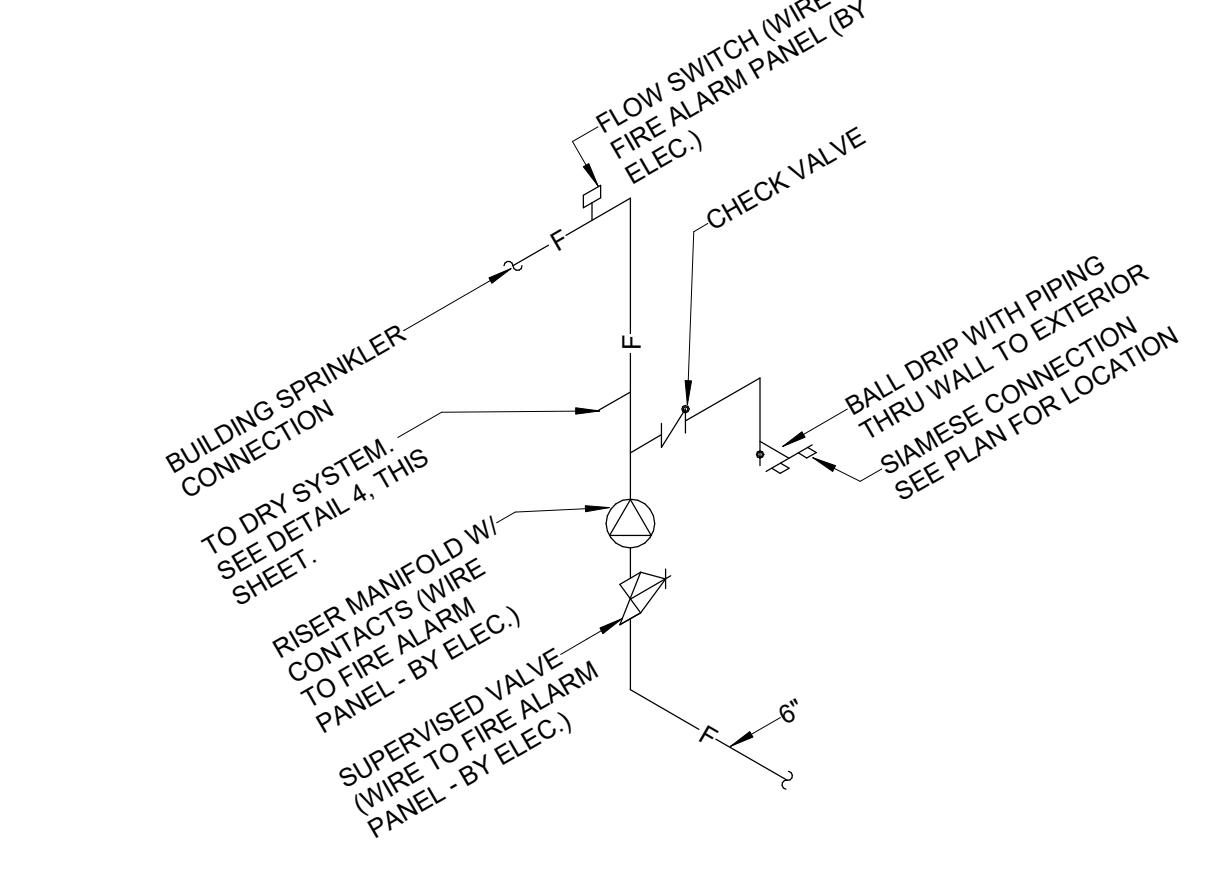
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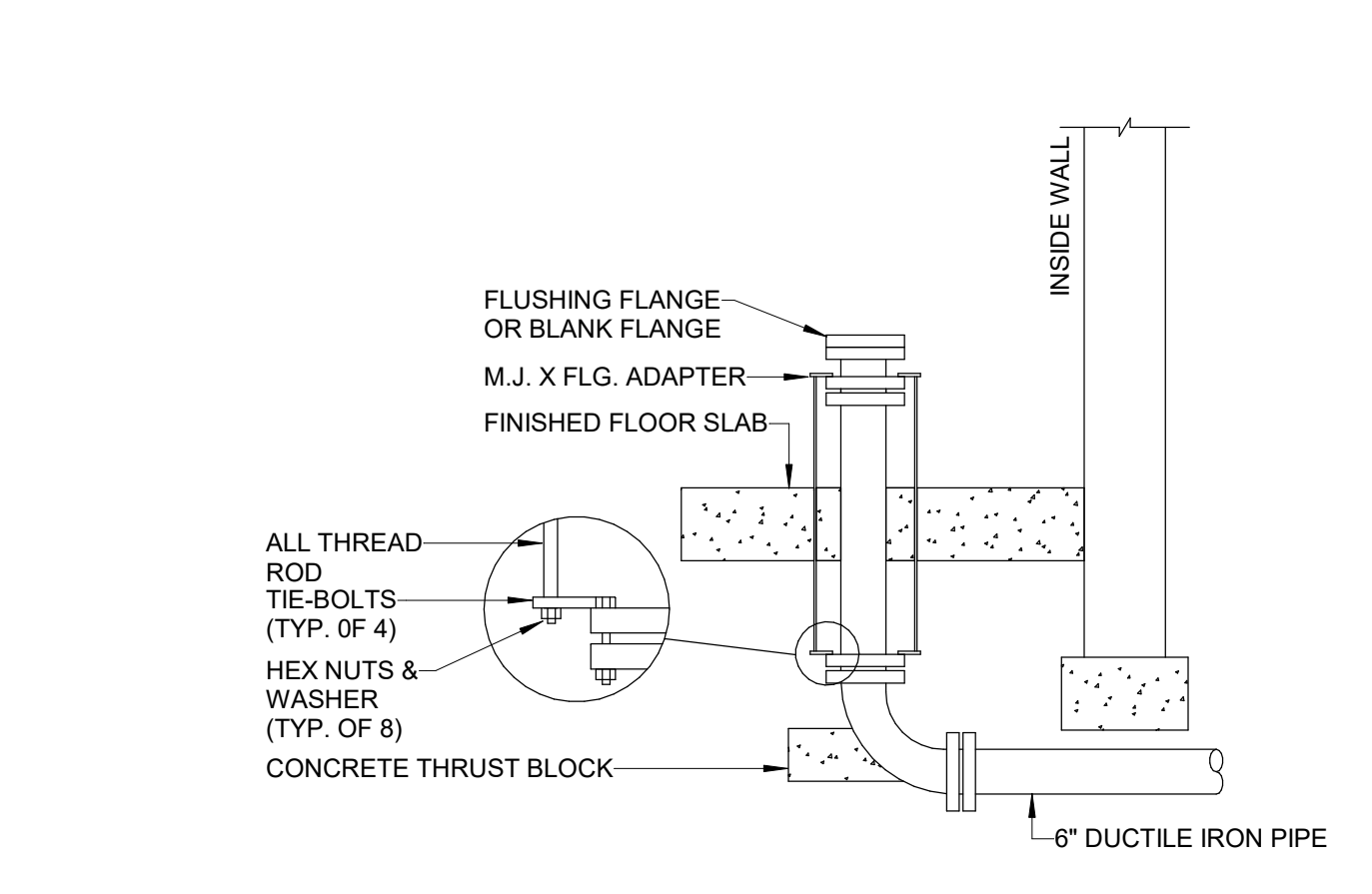
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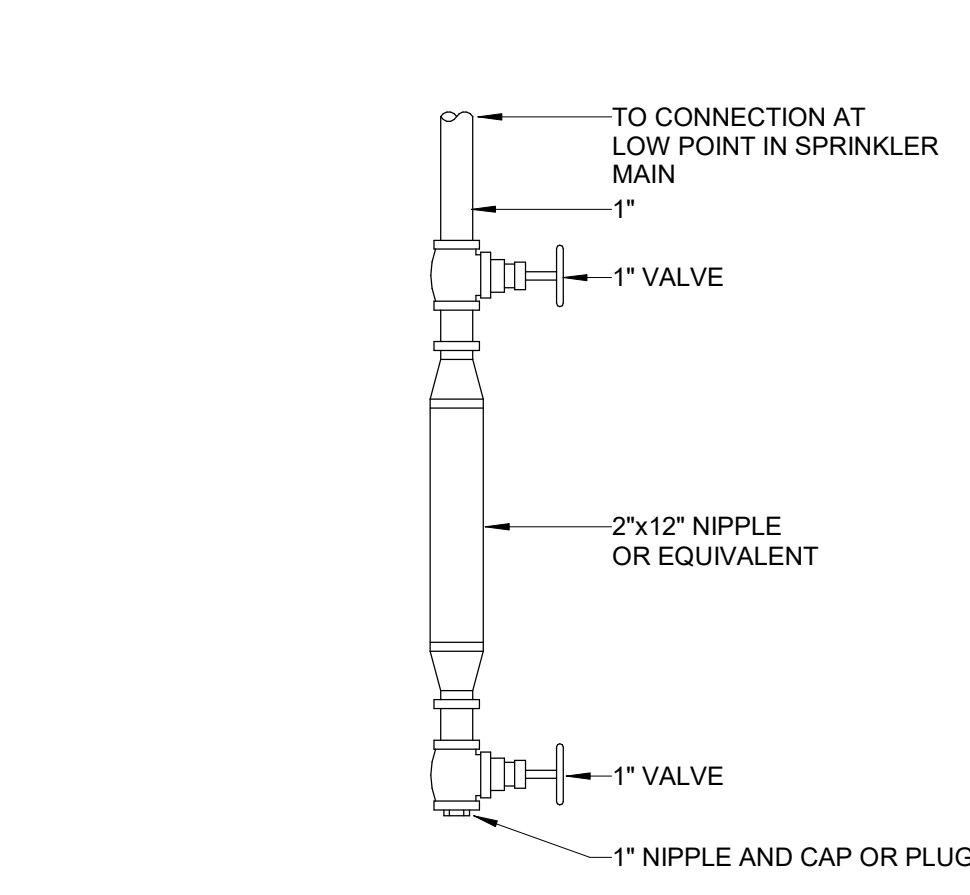
4 DETAIL OF FIRE PROTECTION DRY PIPE SYSTEM
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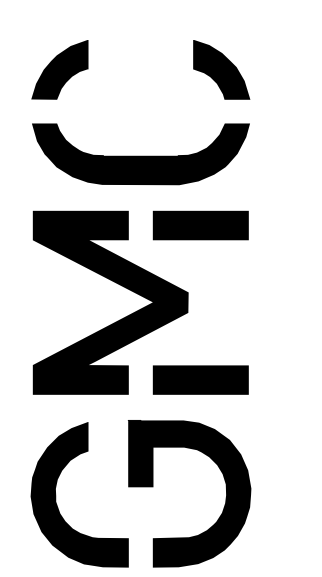
3 DETAIL OF ISOMETRIC FIRE SERVICE ENTRY
SCALE: NOT TO SCALE



2 DETAIL OF FIRE SERVICE ENTRY W/ THRUST BLOCK
SCALE: NOT TO SCALE



1 DETAIL OF DRY SYSTEM AUXILIARY DRAIN
SCALE: NOT TO SCALE



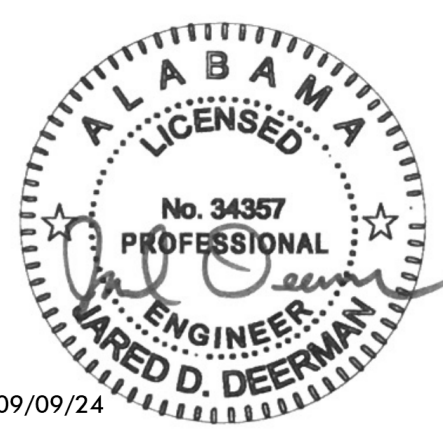
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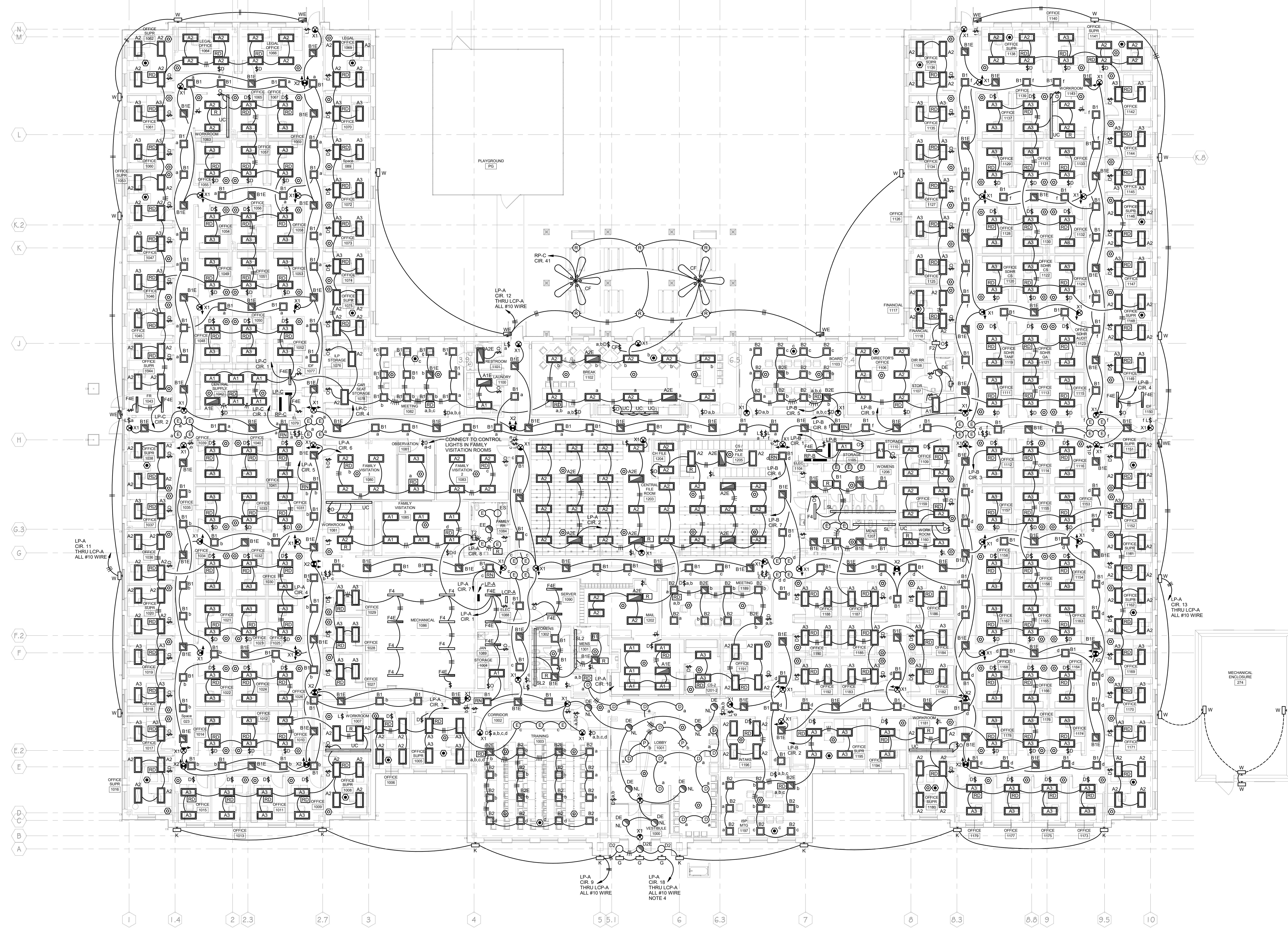
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DETAILS - FIRE PROTECTION

F2.01
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LEVEL 1 LIGHTING PLAN
 SCALE: 3/32" = 1'-0"

- NOTES THIS SHEET ONLY
1. INSTALL SIX (6) MARK "F4" AND SIX (6) MARK "F5E" FIXTURES IN ATTIC. CONNECT TO L.P.A. CIR. 36. INSTALL ONE (1) THREE WAY SWITCH (S3) AT EACH ATTIC ACCESS FOR A TOTAL OF TWO (2) SWITCHES.
 2. DO NOT SWITCH EXIT SIGNS, NIGHT LIGHTS OR BATTERY CHARGE CIRCUIT IN EMERGENCY FIXTURES. PREFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY FIXTURES.
 3. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES.
 4. INSTALL DIMMER SWITCH FOR MARK "G" FIXTURES ADJACENT TO L.P.A IN ELECTRICAL ROOM.

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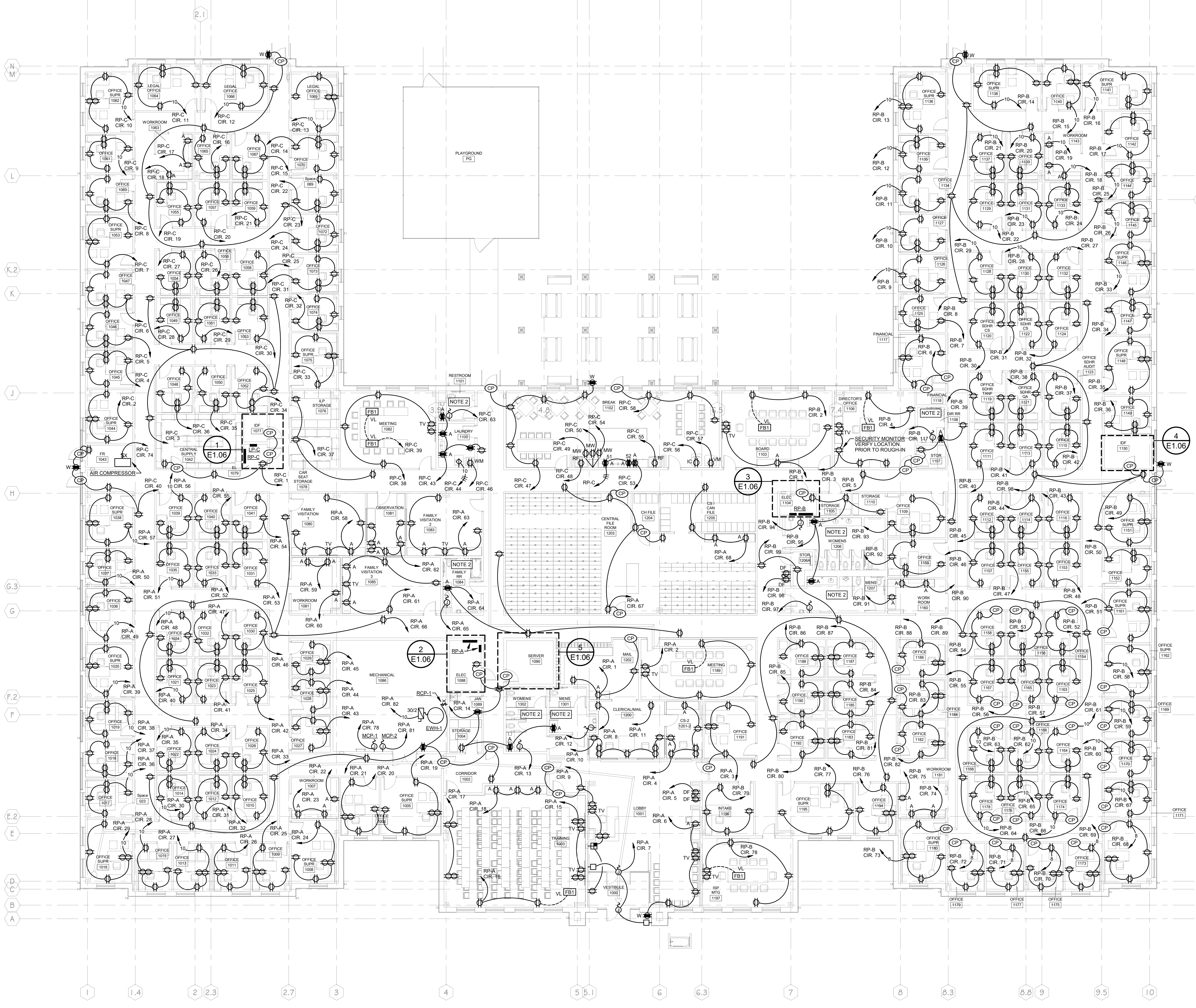
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 PROFESSIONAL
 ENGINEER
 ROBERT C. RENFRO
 9.9.24

E1.01
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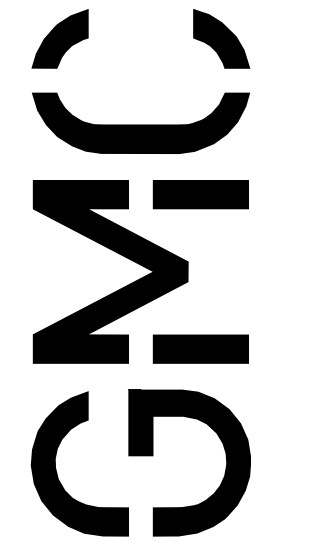
JACKSON, RENFRO & ASSOCIATES, INC.
 111 VILLAGE STREET SUITE 111 BIRMINGHAM, ALABAMA 35202

ROBERT RENFRO, PE
 bobby@jra.com
 (205) 536-7107
 (205) 395-3378
 JRA FOR NO. 222148
 E.I.T. & T.C.I. #1767 E.I.T. #1768



LEVEL 1 POWER PLAN
SCALE: 3/32" = 1'-0"

- NOTES THIS SHEET ONLY
1. CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO NEAREST 120V CIRCUIT. SEE LANDSCAPE DRAWINGS FOR EXACT LOCATION.
 2. AT EACH RESTROOM, PROVIDE LOW-VOLTAGE TRANSFORMER TO SUPPLY LOW-VOLTAGE POWER TO EACH FAUCET, URINAL AND TOILET. PROVIDE LOW-VOLTAGE WIRING AS REQUIRED FROM TRANSFORMER TO EACH PLUMBING SENSOR CONNECT TRANSFORMER PRIMARY DOWNSTREAM OF GFCI RECEPTACLE IN EACH RESTROOM.



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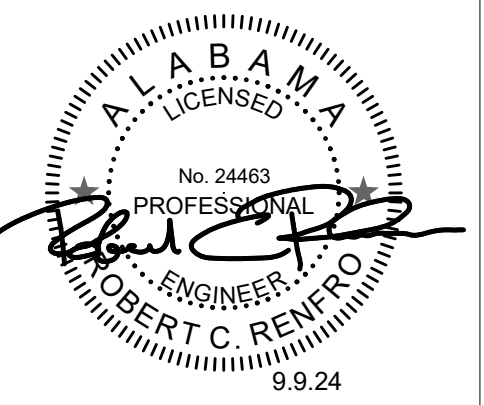
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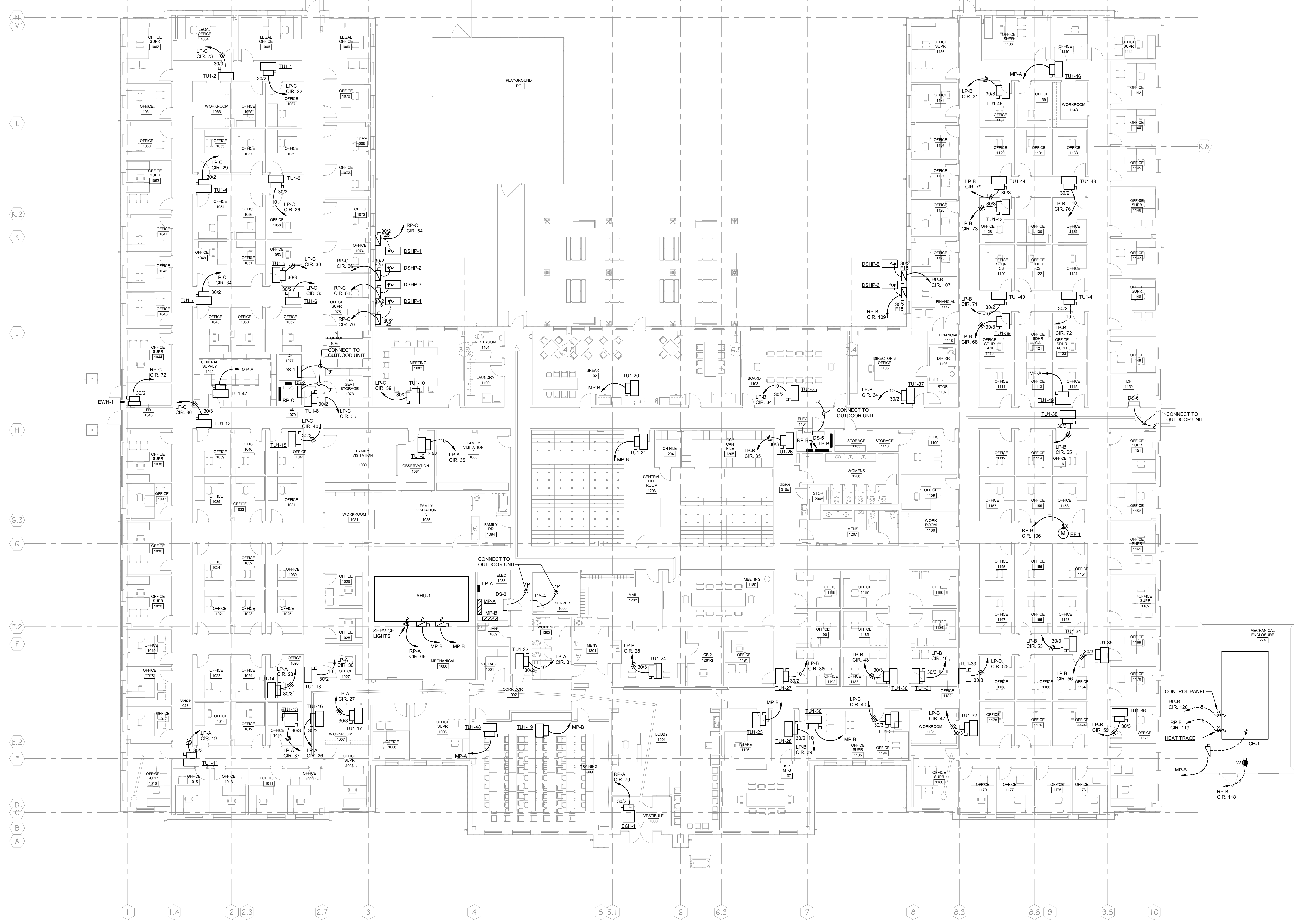
POWER PLAN

E1.02

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ROBERT RENFRO, P.E.
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TRAFFIC NO. 222145
ELECTRICAL ENGINEER
9.9.24

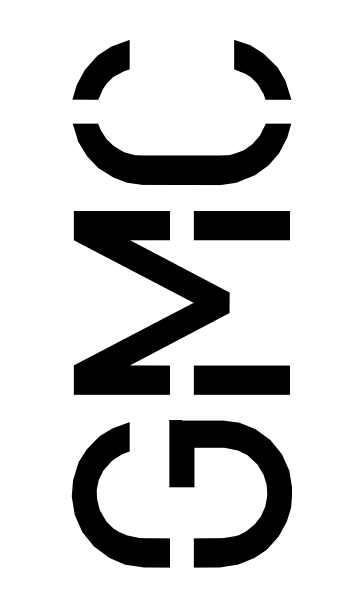
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LEVEL 1 MECHANICAL EQUIPMENT POWER PLAN
 SCALE: 3/32" = 1'-0"

NOTES THIS SHEET ONLY

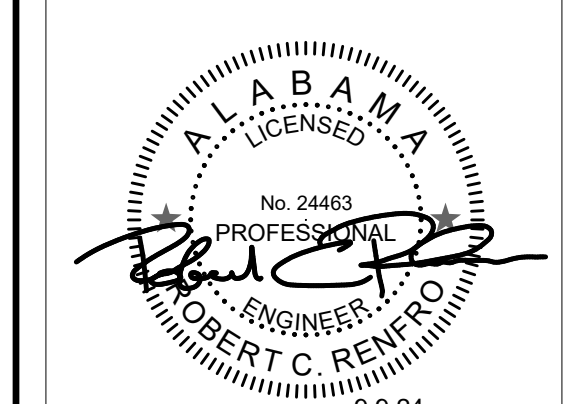
1. INSTALL 3-POLE DISCONNECT AT ALL DS UNITS WITH WIRING AS REQUIRED IN 1" CONDUIT TO OUTDOOR UNIT.



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 GMC # ABHM220021
 SBC # [ENTER VALUE]

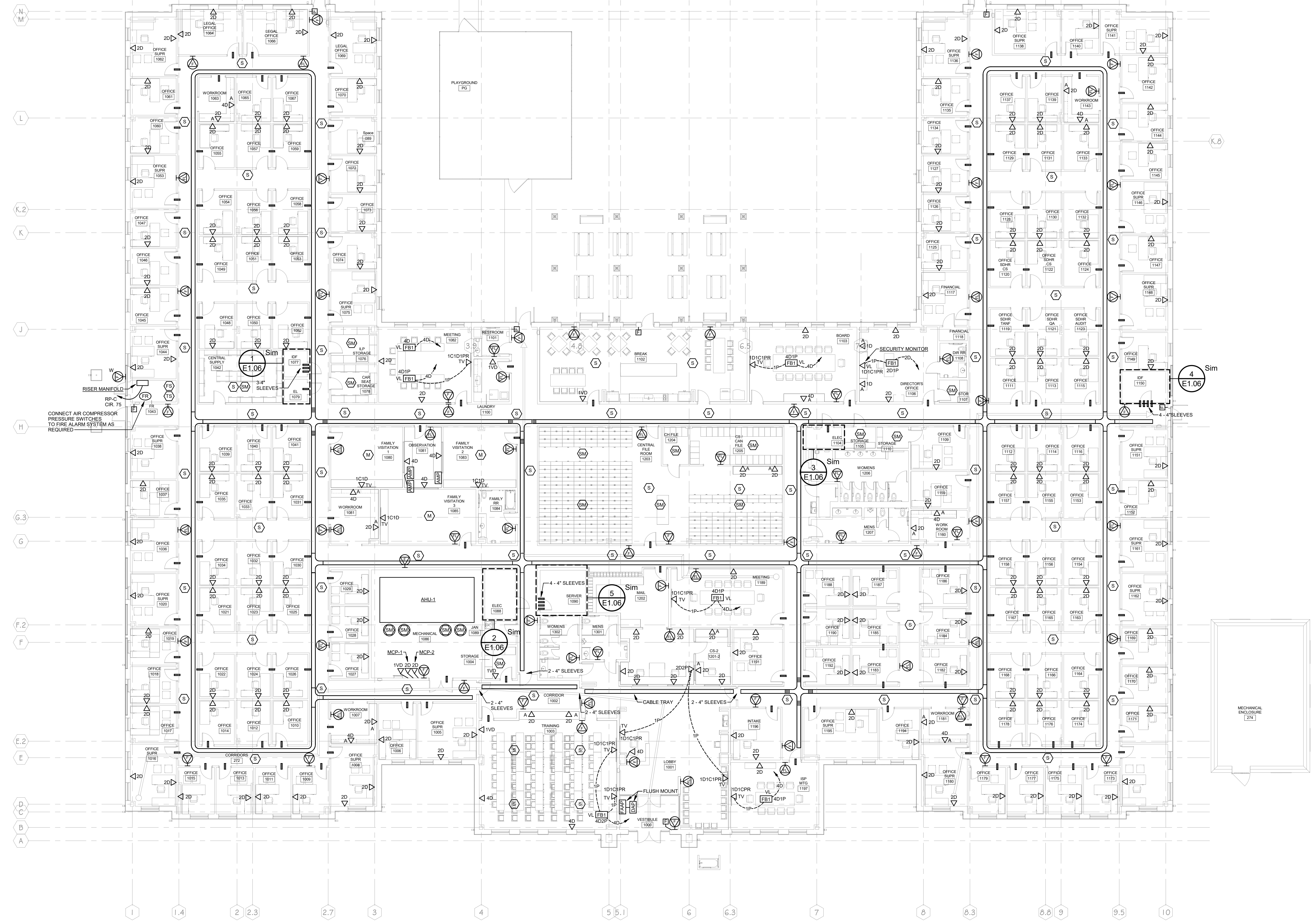


MECHANICAL PLAN
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 FAX (205) 222-0445
 9.9.24

K
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1 2 3 4 5 6 7 8 9 10 11 12



NORTH
LEVEL 1 AUXILIARY PLAN
 SCALE: 3/32" = 1'-0"

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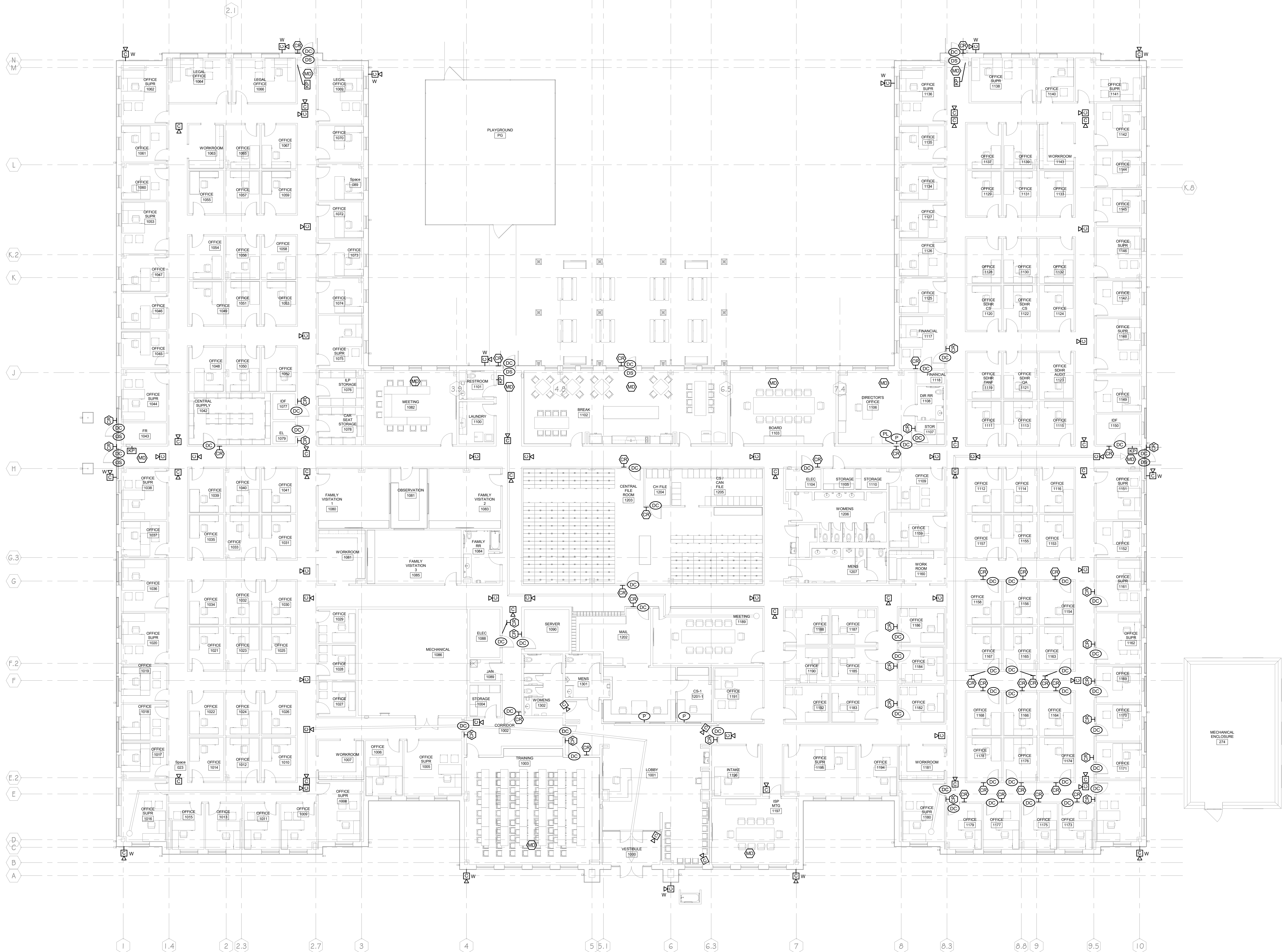
AUXILIARY PLAN
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ISSUE DATE 09/09/2024
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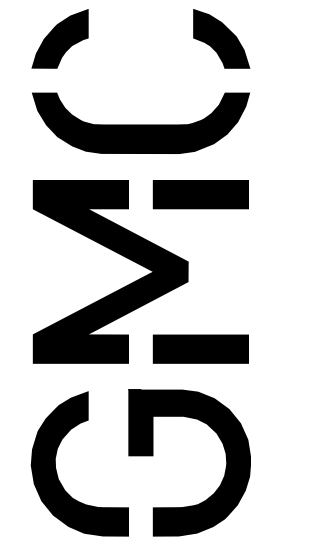
ALABAMA
 LICENSED
 PROFESSIONAL
 ENGINEER
 ROBERT C. RENFRO
 9.9.24

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 (205) 536-7107
 (205) 995-3778
 JRA ION NO. 222145
 E.I.T. # 11011

9/6/2024 11:56:53 AM TEMPLATE VERSION: 20211



LEVEL 1 SECURITY PLAN
 SCALE: 3/32" = 1'-0"



2400 5th Avenue South, Suite 200
 Birmingham, AL 35233
 T 205.879.4462
 GMCNETWORK.COM

ISSUE DATE	DATE
BID SET	09/09/2024

DRAWN BY: SNJ
 CHECKED BY: RCR

TUSCALOOSA COUNTY DHR
 PROJECT ADDRESS

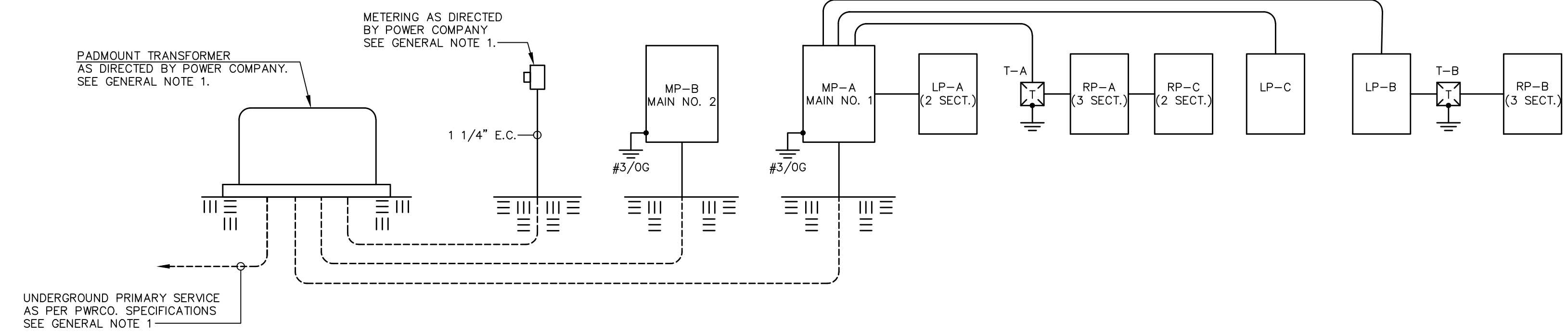
GMC # ABHM220021
 SBC # [ENTER VALUE]



SECURITY PLAN

E1.05
 sheet of

PANELBOARD SCHEDULE - LP-A											
PANEL TYPE: SQUARE D TYPE NF				AIC RATING: 35KAC (MINIMUM)							
VOLTAGE: 277/480V 3P-4W				MOUNTING: SURFACE							
AMPS & TYPE: 225 AMP - MLO				LOCATION: SEE PLANS							
FED FROM: MP-A				FEEDER: SEE PANELBOARD SCHEDULE - MP-A							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
1	-	201	OFFICE LIGHTING	2,700	A	100	FLAG LIGHTING	201	LCP	22	
2	-	201	OFFICE LIGHTING	2,850	B	3,000	TU1-14	153	-	23	
3	-	201	OFFICE LIGHTING	2,700	C	3,000			-	24	
4	-	201	OFFICE LIGHTING	2,400	A	3,000			-	25	
5	-	201	CORRIDOR LIGHTING	1,100	B	3,000	TU1-16	201	-	26	
6	-	201	CORRIDOR EM LIGHTING	650	C	2,667	TU1-17	153	-	27	
7	-	201	CORRIDOR LIGHTING	800	A	2,667			-	28	
8	-	201	CORRIDOR EM LIGHTING	700	B	2,667			-	29	
9	LCP	201	ENTRY LIGHTING	500	C	5,000	TU1-18	301	-	30	
10	-	201	LOBBY LIGHTING	650	A	5,000	TU1-22	301	-	31	
11	LCP	201	EXTERIOR LIGHTING	300	B		SPARE	201	-	32	
12	LCP	201	EXTERIOR LIGHTING	500	C		SPARE	201	-	33	
13	LCP	201	EXTERIOR LIGHTING	350	A		SPARE	201	-	34	
14	LCP	201	PARKING LOT LIGHTING	300	B	5,000	TU1-9	301	-	35	
15	LCP	201	PARKING LOT LIGHTING	300	C	600	ATTIC LIGHTING	201	-	36	
16	LCP	201	PARKING LOT LIGHTING	525	A	2,334	TU1-13	153	-	37	
17	LCP	201	PARKING LOT LIGHTING	750	B	2,334			-	38	
18	LCP	201	ENTRY SIGN LIGHTING	150	C	2,334			-	39	
19	-	153	TU1-11	2,667	A		SPARE	201	-	40	
20	-			2,667	B		SPARE	201	-	41	
21	-			2,667	C		SPARE	201	-	42	
NOTES:				PH. A.	PH. B.	PH. C.	TOTAL CONNECTED LOAD:			69.9 KVA	
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.				23,193	24,668	21,068	TOTAL DEMAND LOAD:			69.9 KVA	
							TOTAL COMPUTED LOAD:			73.7 KVA	
										92.1 AMPS	



SINGLE LINE DIAGRAM
SCALE: NONE

NOTES:
1. REFER TO PANELBOARD SCHEDULES FOR FEEDER SIZES NOT INDICATED ON THIS DIAGRAM.

PANELBOARD SCHEDULE - RP-A (SECT. 1)											
PANEL TYPE: SQUARE D TYPE NQ				AIC RATING: 10KAC (MINIMUM)							
VOLTAGE: 120/208V 3P-4W				MOUNTING: SURFACE							
AMPS & TYPE: 600/3 MAIN BKR				LOCATION: SEE PLANS							
FED FROM: MP-A				FEEDER: 2 SETS OF 4-350MCM & 1#20G - 3 1/2" C							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
1	-	201	CONVENIENCE OUTLETS	650	A	1,000	COPIER	201	-	22	
2	-	201	CONFERENCE ROOM OUTLETS	1,400	B	400	WORKROOM OUTLETS	201	-	23	
3	-	201	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	201	-	24	
4	-	201	OFFICE OUTLETS	1,200	A	1,000	OFFICE OUTLETS	201	-	25	
5	GFCI	201	DRINKING FOUNTAINS	1,000	B	1,000	OFFICE OUTLETS	201	-	26	
6	-	201	LOBBY OUTLETS	1,000	C	1,000	OFFICE OUTLETS	201	-	27	
7	-	201	DOOR OPERATOR	800	A	1,000	OFFICE OUTLETS	201	-	28	
8	-	201	COPIER	1,000	B	1,000	OFFICE OUTLETS	201	-	29	
9	-	201	LOBBY OUTLETS	1,400	C	1,000	OFFICE OUTLETS	201	-	30	
10	-	201	OFFICE OUTLETS	1,400	A	1,000	OFFICE OUTLETS	201	-	31	
11	-	201	COPIER	1,000	B	1,000	OFFICE OUTLETS	201	-	32	
12	-	201	HAND DRYER	1,500	C	1,000	OFFICE OUTLETS	201	-	33	
13	-	201	HAND DRYER	1,500	A	1,000	OFFICE OUTLETS	201	-	34	
14	-	201	CONVENIENCE OUTLETS	1,250	B	1,000	OFFICE OUTLETS	201	-	35	
15	-	201	TRAINING ROOM OUTLETS	1,200	C	1,000	OFFICE OUTLETS	201	-	36	
16	-	201	TRAINING ROOM OUTLETS	800	A	1,000	OFFICE OUTLETS	201	-	37	
17	-	201	TRAINING ROOM OUTLETS	800	B	1,000	OFFICE OUTLETS	201	-	38	
18	-	201	TRAINING ROOM OUTLETS	600	C	1,000	OFFICE OUTLETS	201	-	39	
19	-	201	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	201	-	40	
20	-	201	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	201	-	41	
21	-	201	CONVENIENCE OUTLETS	1,400	C	1,000	OFFICE OUTLETS	201	-	42	

RP-A (SECT. 2)											
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
43	-	201	OFFICE OUTLETS	1,000	A	800	CONVENIENCE OUTLETS	201	-	64	
44	-	201	OFFICE OUTLETS	1,000	B	1,500	HAND DRYER	201	-	65	
45	-	201	OFFICE OUTLETS	1,000	C	1,200	CONVENIENCE OUTLETS	201	-	66	
46	-	201	OFFICE OUTLETS	1,000	A	1,100	CONVENIENCE OUTLETS	201	-	67	
47	-	201	OFFICE OUTLETS	1,000	B	800	CONVENIENCE OUTLETS	201	-	68	
48	-	201	OFFICE OUTLETS	1,000	C	300	AHU-1 SERVICE LIGHTS	201	-	69	
49	-	201	OFFICE OUTLETS	1,000	A	1,000	TBB	201	-	70	
50	-	201	OFFICE OUTLETS	1,000	B	800	TBB	201	-	71	
51	-	201	OFFICE OUTLETS	1,000	C	800	TBB	201	-	72	
52	-	201	OFFICE OUTLETS	1,000	A	800	TBB	201	-	73	
53	-	201	OFFICE OUTLETS	1,000	B	800	IT	201	-	74	
54	-	201	OFFICE OUTLETS	1,000	C	800	IT	201	-	75	
55	-	201	OFFICE OUTLETS	1,000	A	500	FACP	201	LO	76	
56	-	201	OFFICE OUTLETS	1,000	B	500	SECURITY PANEL	201	-	77	
57	-	201	OFFICE OUTLETS	1,000	C	500	MCP-1	201	-	78	
58	-	201	FAMILY VISITATION OUTLETS	1,200	A	1,500	ECH-1	202	-	79	
59	-	201	WORKROOM OUTLETS	400	B	1,500			-	80	
60	-	201	COPIER	1,000	C	500	MCP-2	201	-	81	
61	-	201	FAMILY VISITATION OUTLETS	1,200	A	2,250	EVH-1	302	-	82	
62	-	201	OBSERVATION OUTLETS	800	B	2,250			-	83	
63	-	201	FAMILY VISITATION OUTLETS	1,200	C	150	ENTRY SIGN LIGHTING	201	LCP	84	

RP-A (SECT. 3)											
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
85	LO	201	DAS	400	A	-	-	-	-	106	
86	LO	201	DAS	400	B	-	-	-	-	107	
87	LCP	201	ENTRY SIGN LIGHTING	300	C	-	-	-	-	108	
88	-	201	SPARE	-	A	-	-	-	-	109	
89	-	201	SPARE	-	B	-	-	-	-	110	
90	-	201	SPARE	-	C	-	-	-	-	111	
91	-	201	SPARE	-	A	-	-	-	-	112	
92	-	201	-	-	B	-	-	-	-	113	
93	-	201	-	-	C	-	-	-	-	114	
94	-	201	-	-	A	-	-	-	-	115	
95	-	201	-	-	B	-	-	-	-	116	
96	-	201	-	-	C	-	-	-	-	117	
97	-	201	-	-	A	-	-	-	-	118	
98	-	201	-	-	B	-	-	-	-	119	
99	-	201	-	-	C	-	-	-	-	120	
100	-	201	-	-	A	-	-	-	-	121	
101	-	201	-	-	B	-	-	-	-	122	
102	-	201	-	-	C	-	-	-	-	123	
103	-	201	-	-	A	17,112	RP-C	225/3	-	124	
104	-	201	-	-	B	17,112	#4/0 & 1#4G - 2 1/2" C			125	
105	-	201	-	-	C	17,112			-	126	
NOTES:				PH. A.	PH. B.	PH. C.	TOTAL CONNECTED LOAD:			162.8 KVA	
1. PROVIDE INTEGRAL 160KA SPD				47,212	45,712	43,962	TOTAL DEMAND LOAD:			99.6 KVA	
2. "GFCI" = GROUND-FAULT BREAKER (5mA TRIP)							TOTAL COMPUTED LOAD:			276.6 AMPS	
3. "EGFI" = GROUND-FAULT BREAKER (30mA TRIP)										99.7 KVA	
4. "LO" = LOCK-ON HARDWARE										277.1 AMPS	

PANELBOARD SCHEDULE - MP-A											
PANEL TYPE: SQUARE D I LINE SERIES				AIC RATING: 42KAC (MINIMUM)							
VOLTAGE: 277/480V 3P-4W				MOUNTING: SURFACE							
AMPS & TYPE: 1000/3 MAIN BKR				LOCATION: SEE PLANS							
FED FROM: UTILITY				FEEDER: 3 SETS OF 4-400MCM - 3 1/2" C							
CKT. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW RATING	WIRE AND COND. SIZE	REMARKS	
1	LP-B	277/480	3		312.3	600/3	600/3	-	2 SETS OF 4-350MCM & 1#1G - 3" C		
2	LP-A	277/480	3		73.7	225/3	225/3	-	#4/0 & 1#4G - 2 1/2" C		
3	LP-C	277/480	3		70.9	225/3	225/3	-	#4/0 & 1#4G - 2 1/2" C		
4	RP-A (150 KVA X-FORMER)	480	3		99.7	250/3	250/3	-	3-250MCM & 1#4G - 2 1/2" C		
5	TU1-46	277/480	3		10.0	20/3	30/3		#4/0 & 1#12G - 3/4" C		
6	TU1-47	277/480	3		11.0	20/3	30/3		#4/0 & 1#12G - 3/4" C		
7	TU1-48	277/480	3		11.0	20/3	30/3		#4/0 & 1#12G - 3/4" C		
8	TU1-49	277/480	3		11.0	20/3	30/3		#4/0 & 1#12G - 3/4" C		
9	SPACE		3				-3	-			
10	SPACE		3				-3	-			
11	SPACE		3				-3	-			
12	SPACE		3				-3	-			
				TOTAL CONNECTED LOAD:		745.6 KVA			NOTES:		
				TOTAL DEMAND LOAD:		582.5 KVA			1. PANEL SHALL BE SERVICE-ENTRANCE RATED.		
				TOTAL COMPUTED LOAD:		594.5 KVA			2. PROVIDE INTEGRAL 240KA (PER PHASE) SURGE PROTECTION DEVICE.		
						743.2 AMPS			3. MAIN BREAKER SHALL BE GROUND-FAULT TYPE		
									4. PROVIDE ARC-FLASH ENERGY REDUCTION MAINTENANCE SWITCH (TO ADJUST BREAKER TRIP SETTINGS TO LOWER LEVELS WHEN SWITCH IS IN "MAINTENANCE MODE") PER NEC 2014 ARTICLE 240.87 REQUIREMENTS.		

PANELBOARD SCHEDULE - MP-B											
PANEL TYPE: SQUARE D I LINE SERIES				AIC RATING: 50KAC (MINIMUM)							
VOLTAGE: 277/480V 3P-4W				MOUNTING: SURFACE							
AMPS & TYPE: 1000/3 MAIN BKR				LOCATION: SEE PLANS							
FED FROM: UTILITY				FEEDER: 3 SETS OF 4-400MCM - 3 1/2" C							
CKT. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW RATING	WIRE AND COND. SIZE	REMARKS	
1	CH-1	480	3			254.0	350/3	400/3 - F350	3-500MCM & 1#3G - 3" C		
2	AHU-1 CIR. 1	480	3			85.0	110/3	200/3 - F110	3#3 & 1#6G - 1 1/4" C		
3	AHU-1 CIR. 2	480	3		180.0		250/3	400/3 - F250	3-250MCM & 1#4G - 2 1/2" C		
4	TU1-19	277/480	3		18.0		30/3	30/3	#4/0 & 1#10G - 1" C		
5	TU1-20	277/480	3		14.0		25/3	30/3	#4/0 & 1#10G - 1" C		
6	TU1-21	277/480	3								

PANELBOARD SCHEDULE - LP-C													
PANEL TYPE: SQUARE D TYPE NF				AIC RATING: 35KAC (MINIMUM)									
VOLTAGE: 277/480V-3P-4W				MOUNTING: SURFACE									
AMPS & TYPE: 225 AMP - MLO				LOCATION: SEE PLANS									
FED FROM:		MP-A		FEEDER:		SEE PANELBOARD SCHEDULE - MP-A							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	NOTES	BKR	DESCRIPTION
1	-	20/1	OFFICE LIGHTING	3,050	A	4,000	TU1-1	20/1	-	22			
2	-	20/1	OFFICE LIGHTING	2,800	B	3,000	TU1-2	15/3	-	23			
3	-	20/1	CORRIDOR LIGHTING	1,850	C	3,000			-	24			
4	-	20/1	CORRIDOR EMLIGHTING	1,000	A	3,000			-	25			
5	-	20/1	SPARE		B	6,000	TU1-3	30/1	-	26			
6	-	20/1	SPARE		C		SPARE	20/1	-	27			
7	-	20/1	SPARE		A		SPARE	20/1	-	28			
8	-	20/1	SPARE		B	3,000	TU1-4	20/1	-	29			
9	-	20/1	SPARE		C	3,000	TU1-5	15/3	-	30			
10	-	20/1	SPARE		A	3,000			-	31			
11	-	20/1	SPARE		B	3,000			-	32			
12	-	20/1	SPARE		C	2,000	TU1-6	20/1	-	33			
13	-	20/1	SPARE		A	3,000	TU1-7	20/1	-	34			
14	-	20/1	-		B	4,000	TU1-8	20/1	-	35			
15	-	20/1	-		C	2,667	TU1-12	15/3	-	36			
16	-	20/1	-		A	2,667			-	37			
17	-	20/1	-		B	2,667			-	38			
18	-	20/1	-		C	3,000	TU1-10	20/1	-	39			
19	-	20/1	-		A	3,000	TU1-15	15/3	-	40			
20	-	20/1	-		B	3,000			-	41			
21	-	20/1	-		C	3,000			-	42			
NOTES:				PH. A	PH. B	PH. C	TOTAL CONNECTED LOAD:			68.7 KVA			
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.				22,717	27,467	18,517	TOTAL DEMAND LOAD:			68.7 KVA			
							TOTAL COMPUTED LOAD:			70.9 KVA			
										88.6 AMPS			

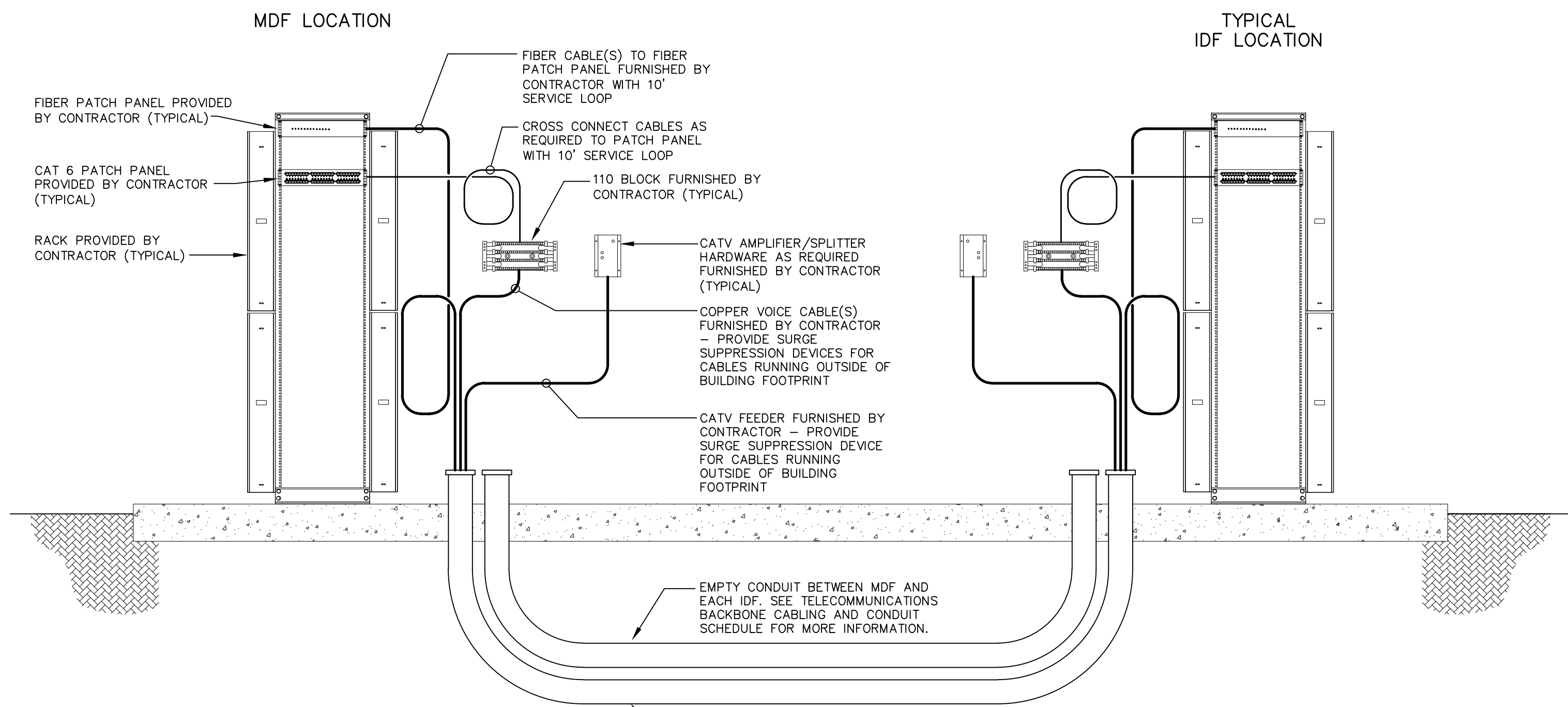
PANELBOARD SCHEDULE - RP-C (SECT. 1)													
PANEL TYPE: SQUARE D TYPE NQ				AIC RATING: 10KAC (MINIMUM)									
VOLTAGE: 120/208V-3P-4W				MOUNTING: SURFACE									
AMPS & TYPE: 225 AMP - MLO				LOCATION: SEE PLANS									
FED FROM:		RP-A		FEEDER:		SEE PANELBOARD SCHEDULE - RP-A (SECT. 1)							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	NOTES	BKR	DESCRIPTION
1	-	20/1	CONVENIENCE OUTLETS	750	A	1,000	OFFICE OUTLETS	20/1	-	22			
2	-	20/1	OFFICE OUTLETS	1,000	B	1,200	CONVENIENCE OUTLETS	20/1	-	23			
3	-	20/1	CONVENIENCE OUTLETS	1,000	C	1,000	CONVENIENCE OUTLETS	20/1	-	24			
4	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	25			
5	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	26			
6	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	27			
7	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	28			
8	-	20/1	OFFICE OUTLETS	700	B	1,000	OFFICE OUTLETS	20/1	-	29			
9	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	30			
10	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	31			
11	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	32			
12	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	33			
13	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	34			
14	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	35			
15	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	36			
16	-	20/1	OFFICE OUTLETS	1,000	A	600	CONVENIENCE OUTLETS	20/1	-	37			
17	-	20/1	WORKROOM OUTLETS	400	B	1,000	CONFERENCE ROOM OUTLETS	20/1	-	38			
18	-	20/1	COPIER	1,000	C	800	FLOOR BOXES	20/1	-	39			
19	-	20/1	OFFICE OUTLETS	1,000	A	750	CONVENIENCE OUTLETS	20/1	-	40			
20	-	20/1	OFFICE OUTLETS	1,000	B	200	EXTERIOR FANS	20/1	-	41			
21	-	20/1	OFFICE OUTLETS	1,000	C			20/1	-	42			
NOTES:				PH. A	PH. B	PH. C	TOTAL CONNECTED LOAD:			77.3 KVA			
1. PROVIDE INTEGRAL 160KA SPD.				25,549	25,576	26,146	TOTAL DEMAND LOAD:			51.3 KVA			
							TOTAL COMPUTED LOAD:			51.3 KVA			
										142.6 AMPS			

TRANSFORMER SCHEDULE								
MARK	SIZE (KVA)	DESCRIPTION	PRIMARY VOLTAGE & PHASE	SECONDARY VOLTAGE & PHASE	PANEL FED	MOUNTING	GROUND SIZE	REMARKS
T-A	150	DRY-TYPE	480V-3P-3W	120/208V-3P-4W	RP-A		#20	
T-B	112.5	DRY-TYPE	480V-3P-3W	120/208V-3P-4W	RP-B	FLOOR	#20	
TRANSFORMER SCHEDULE NOTES:								
1. EXACT TRANSFORMER LOCATIONS SHALL BE FIELD COORDINATED TO PROVIDE CODE-REQUIRED CLEARANCES AND WORKING SPACES AROUND TRANSFORMERS AND ADJACENT EQUIPMENT (SUCH AS PANELBOARDS).								
2. ALL TRANSFORMERS SHALL BE MOUNTED ON VIBRATION ISOLATORS PER SPECIFICATION REQUIREMENTS.								

PANELBOARD SCHEDULE - RP-B (SECT. 1)													
PANEL TYPE: SQUARE D TYPE NQ				AIC RATING: 10KAC (MINIMUM)									
VOLTAGE: 120/208V-3P-4W				MOUNTING: SURFACE									
AMPS & TYPE: 400/0 MAIN BKR				LOCATION: SEE PLANS									
FED FROM:		LP-B		FEEDER:		2 SETS OF #4/30 & #12G - 2 1/2" C							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	NOTES	BKR	DESCRIPTION
1	-	20/1	BOARD ROOM OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	22			
2	-	20/1	BOARD ROOM OUTLETS	800	B	1,000	OFFICE OUTLETS	20/1	-	23			
3	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	24			
4	-	20/1	OFFICE OUTLETS	800	A	1,000	OFFICE OUTLETS	20/1	-	25			
5	-	20/1	CONVENIENCE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	26			
6	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	27			
7	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	28			
8	-	20/1	CONVENIENCE OUTLETS	1,400	B	1,000	OFFICE OUTLETS	20/1	-	29			
9	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	30			
10	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	31			
11	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	32			
12	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	33			
13	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	34			
14	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	35			
15	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	36			
16	-	20/1	OFFICE OUTLETS	1,000	A	1,000	OFFICE OUTLETS	20/1	-	37			
17	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	38			
18	-	20/1	WORKROOM OUTLETS	400	C	1,000	OFFICE OUTLETS	20/1	-	39			
19	-	20/1	COPIER	1,000	A	1,000	OFFICE OUTLETS	20/1	-	40			
20	-	20/1	OFFICE OUTLETS	1,000	B	1,000	OFFICE OUTLETS	20/1	-	41			
21	-	20/1	OFFICE OUTLETS	1,000	C	1,000	OFFICE OUTLETS	20/1	-	42			
NOTES:				PH. A	PH. B	PH. C	TOTAL CONNECTED LOAD:			111.1 KVA			
1. PROVIDE INTEGRAL 160KA SPD.				37,413	37,296	36,373	TOTAL DEMAND LOAD:			66.2 KVA			
							TOTAL COMPUTED LOAD:			66.4 KVA			
										184.5 AMPS			

LIGHTING CONTROL PANEL SCHEDULE - LCP-A										
MARK	DESCRIPTION	PANEL	CIRCUIT	AUTOMATIC CONTROL		OVERRIDE ON		OVERRIDE OFF		REMARKS
				ON	OFF	STATION	BUTTON	STATION	BUTTON	
R1	ENTRY LIGHTING	LP-A	9	OWNER	OWNER					
R2	EXTERIOR LIGHTING	LP-A	11	OWNER	OWNER					
R3	EXTERIOR LIGHTING	LP-A	12	OWNER	OWNER					
R4	EXTERIOR LIGHTING	LP-A	13	OWNER	OWNER					
R5	PARKING LOT LIGHTING	LP-A	14	DUSK	DAWN					
R6	PARKING LOT LIGHTING	LP-A	15	DUSK	MIDNIGHT					
R7	PARKING LOT LIGHTING	LP-A	16	DUSK	DAWN					
R8	PARKING LOT LIGHTING	LP-A	17	DUSK	MIDNIGHT					
R9	ENTRY SIGN LIGHTING	LP-A	18	OWNER	OWNER					
R10	FLAG LIGHTING	LP-A	22	DUSK	DAWN					
R11	SPARE									
R12	SPARE									
R13	SPARE									
R14	SPARE									
R15	SPARE									
R16	SPARE									
R17	SPARE									
R18	SPARE									
R19	SPARE									
R20	SPARE									
R21	SPARE									
R22	SPARE									
R23	SPARE									
R24	SPARE									
NOTES:										
1. VERIFY SCHEDULING TIMES WITH OWNER PRIOR TO PROGRAMMING SYSTEM.										

PANELBOARD SCHEDULE - LP-B (SECT. 1)													
PANEL TYPE: SQUARE D TYPE NF				AIC RATING: 35KAC (MINIMUM)									
VOLTAGE: 277/480V-3P-4W				MOUNTING: SURFACE									
AMPS & TYPE: 600 AMP - MLO				LOCATION: SEE PLANS									
FED FROM:		MP-A		FEEDER:		SEE PANELBOARD SCHEDULE - MP-A							
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	NOTES	BKR	DESCRIPTION
1	-	20/1	OFFICE LIGHTING	2,500	A	-	-	20/1	-	22			
2	-	20/1	OFFICE LIGHTING	2,350	B	-	-	20/1	-	23			
3	-	20/1	OFFICE LIGHTING	2,400	C	-	-	20/1	-	24			
4	-	20/1	OFFICE LIGHTING	2,800	A	-	-	20/1	-	25			
5	-	20/1	OFFICE LIGHTING	2,600	B	-	-	20/1	-	26			
6	-	20/1	CORRIDOR LIGHTING	1,800	C	-	-	20/1	-	27			
7	-	20/1	CORRIDOR EMLIGHTING	1,000	A	3,000	TU1-24	15/3	-	28			
8	-	20/1	CORRIDOR LIGHTING	1,650	B	3,000			-	29			
9	-	20/1	CORRIDOR EMLIGHTING	850	C	3,000			-	30			
10	-	20/1	SPARE		A	3,000	TU1-45	15/3	-	31			
11	-	20/1	SPARE		B	3,000			-	32			
12	-	20/1	SPARE		C	3,000			-	33			
13	-	20/1	SPARE		A	6,000	TU1-25	30/1	-	34			
14	-	20/1	SPARE		B	3,000	TU1-26	15/3	-	35			
15	-	20/1	SPARE		C	3,000			-	36			
16	-	20/1											



DETAIL "E-SCB"
STRUCTURED CABLING BACKBONE
TYPICAL WIRING DIAGRAM
 SCALE : NONE

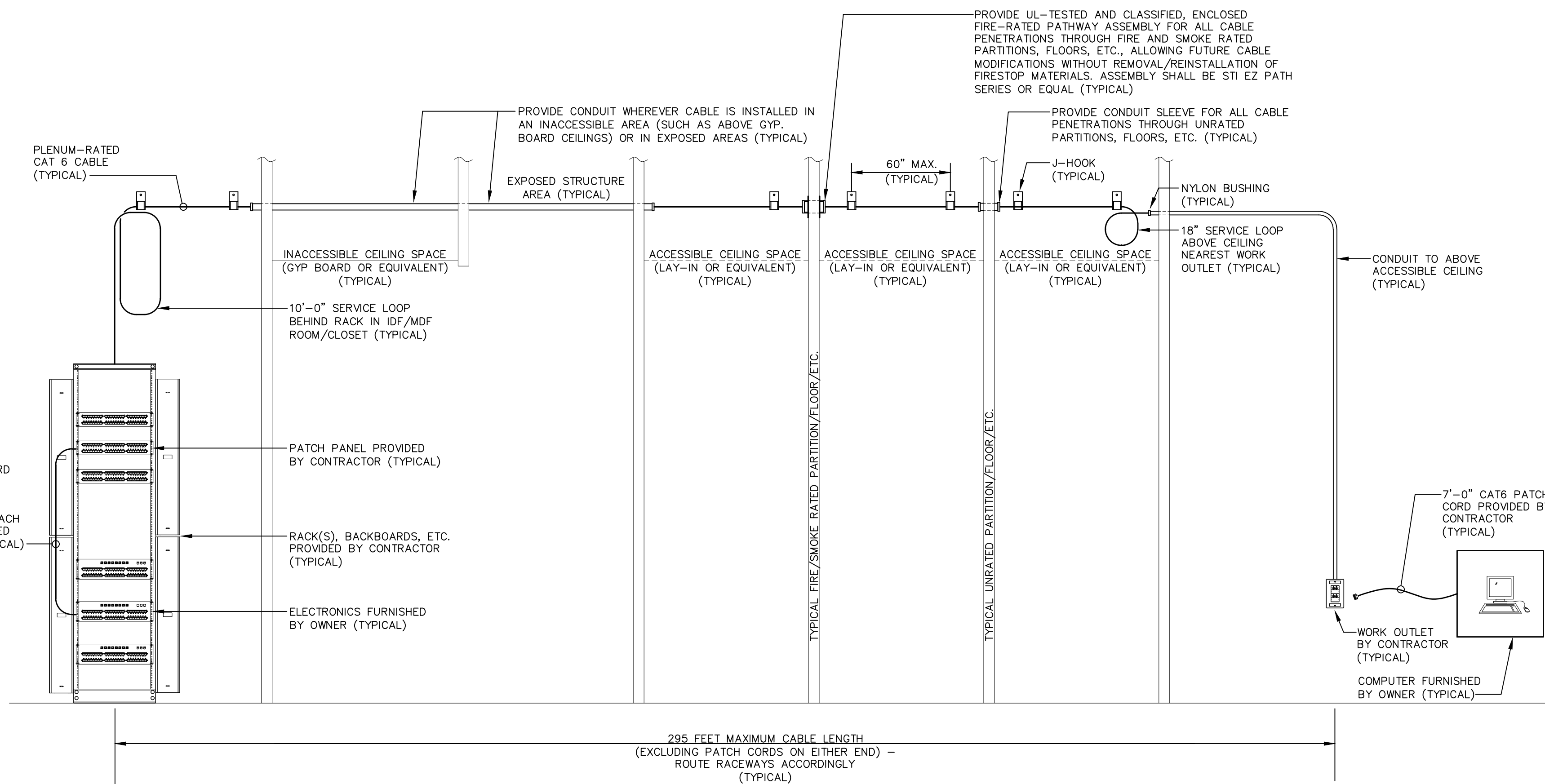
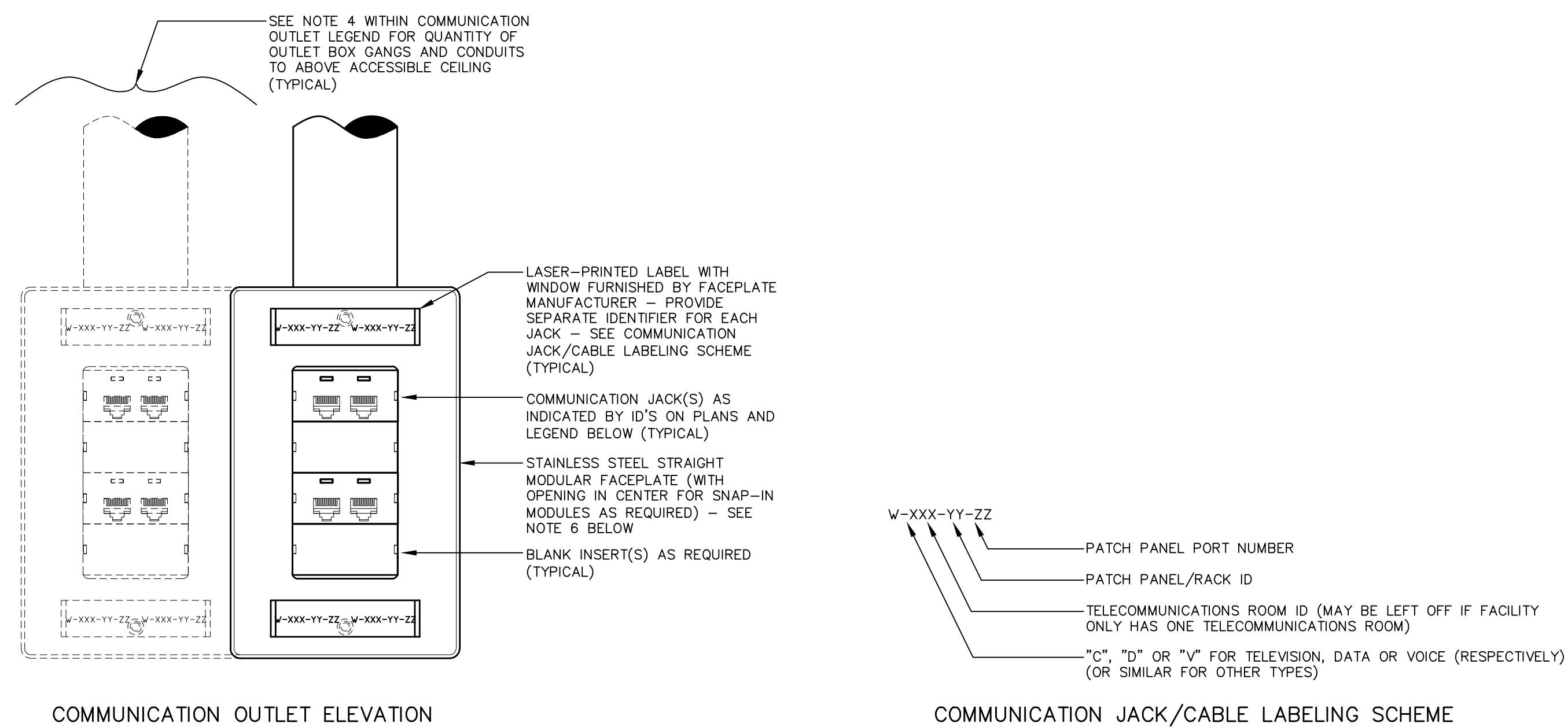


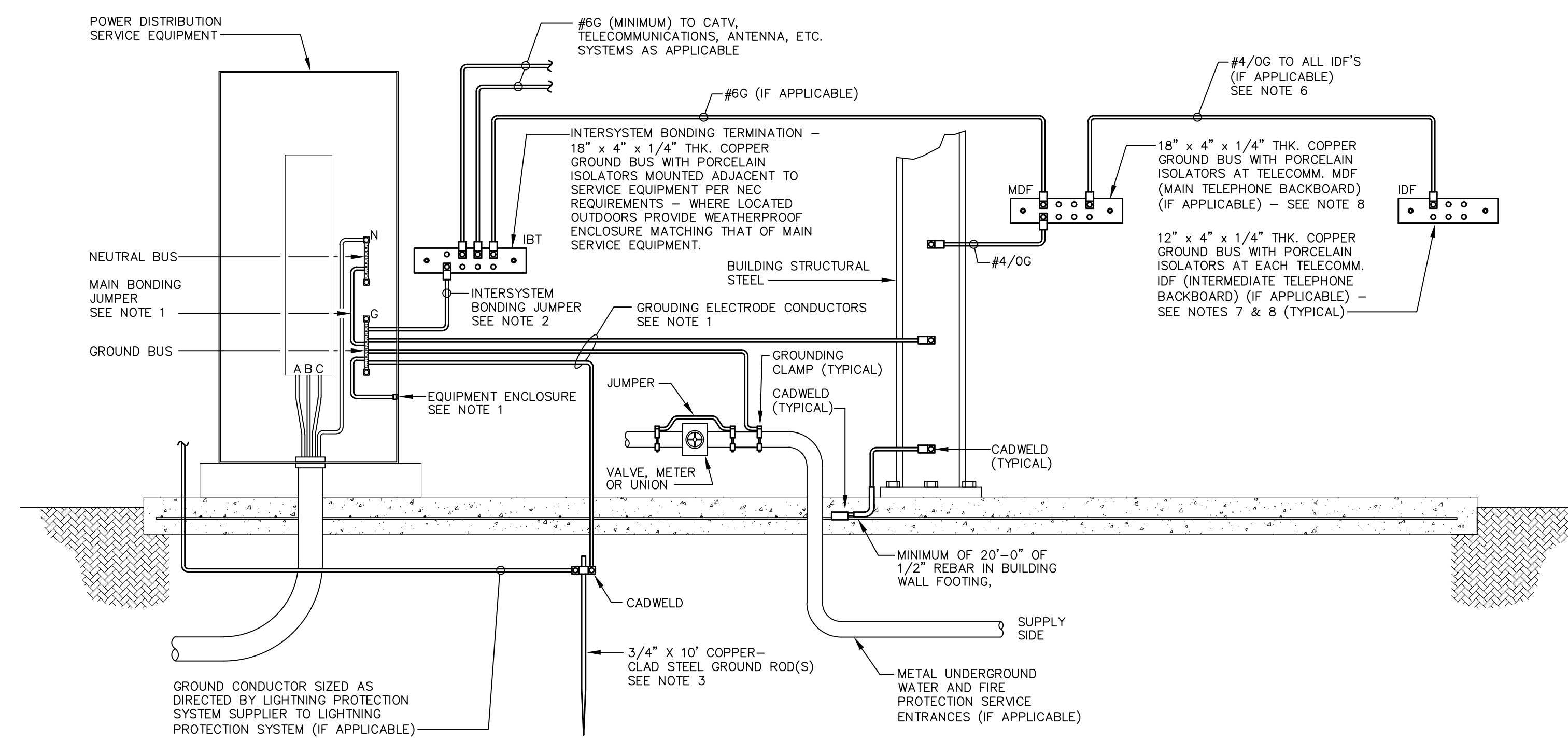
DIAGRAM "E-SCH"
STRUCTURED CABLING HORIZONTAL
TYPICAL WIRING DIAGRAM
 SCALE : NONE



DETAIL "E-CO"
COMMUNICATION OUTLET
 SCALE : NONE

COMMUNICATION OUTLET LEGEND				
JACK ID(S) SHOWN ON PLANS	JACK TYPE(S)	ASSOCIATED HOMERUN CABLING FROM JACK (SEE NOTE 3 BELOW)	HOMERUN CABLING TO (UNLESS SHOWN OTHERWISE ON PLANS)	REMARKS
1A	ONE (1) WHITE RCA JACK	2-CONDUCTOR, 20 GAUGE, UNSHIELDED SPEAKER CABLING	ASSOCIATED SPEAKERS (SEE PLANS FOR LOCATIONS)	
2A	ONE (1) WHITE RCA JACK (LEFT) ONE (1) RED RCA JACK (RIGHT)	2 SETS OF: 2-CONDUCTOR, 20 GAUGE, UNSHIELDED SPEAKER CABLING	ASSOCIATED SPEAKERS (SEE PLANS FOR LOCATIONS)	
*C	"F" CONNECTOR TELEVISION JACK(S)	RG-6/U COAXIAL CABLE(S)	NEAREST CATV SYSTEM DIRECTIONAL COUPLER OR FRONT-END EQUIPMENT AS DIR. BY SUPPLIER	
*D	RJ45 DATA JACK(S)	CAT6 DATA CABLE(S)	NEAREST DATA PATCH PANEL	
*P	ONE (1) C2G RAPIDRUN #42419 HDMI PASSIVE DECORA JACK & ONE (1) C2G RAPIDRUN #60042 TWO-GANG MULTI-FORMAT WALL PLATE WITH VGA, 3.5MM & RCA AUDIO/VIDEO JACKS - IF AT FLOORBOX OR POKE-THRU, USE ADAPTER PLATES AS REQUIRED.	SEE "PR" JACK/OUTLET REQUIREMENTS	SEE "PR" JACK/OUTLET REQUIREMENTS	SEE NOTE 8 BELOW
PR	ONE (1) C2G RAPIDRUN HDMI #42419 PASSIVE DECORA JACK (USE ACTIVE DECORA JACK #42422 IF CABLE LENGTH TO #P OUTLET IS MORE THAN 35') & ONE (1) C2G RAPIDRUN #60042 TWO-GANG MULTI-FORMAT WALL PLATE WITH VGA, 3.5MM & RCA AUDIO/VIDEO JACKS	ONE (1) C2G RAPIDRUN #4118* DIGITAL PLENUM RUNNER CABLE & ONE (1) C2G RAPIDRUN #6001* PLENUM MULTI-FORMAT ALL-IN-ONE RUNNER CABLE	ASSOCIATED LOW VOLTAGE "AP" OUTLET AT ALL/FLOOR	SEE NOTES 8 & 9 BELOW
*V	RJ45 VOICE JACK(S)	CAT6 VOICE CABLE(S)	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	
1VD	ONE (1) RJ45 VOICE JACK	ONE (1) CAT6 VOICE CABLE	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	SEE NOTE 6 BELOW

- NOTES:**
- THE ASTERISK "*" WITHIN THE JACK ID SECTION ABOVE REPRESENT THE QUANTITIES OF EACH JACK/CABLE TYPE. FOR EXAMPLE, "30" REPRESENTS THREE (3) DATA JACKS/CABLES.
 - THE JACK IDENTIFIERS SHOWN ABOVE MAY BE COMBINED TOGETHER ON PLANS. FOR EXAMPLE, THE IDENTIFIER "1V2D1C" REPRESENTS ONE (1) VOICE JACK/CABLE, TWO (2) DATA JACKS/CABLES AND ONE (1) COAXIAL TV JACK/CABLE. OUTLETS MAY CONSIST OF ANY COMBINATION OF THE ABOVE JACK TYPES.
 - ALL LOW VOLTAGE CABLING SHALL BE PLENUM-RATED.
 - THE QUANTITY OF OUTLET BOX GANGS AND CONDUITS FOR EACH COMMUNICATION OUTLET ASSEMBLY SHALL BE AS FOLLOWS:
 1-4 JACKS: ONE GANG WITH ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
 5-8 JACKS: TWO GANGS WITH TWO 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
 9-12 JACKS: THREE GANGS WITH THREE 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
 - PROVIDE A NYLON BUSHING ON EACH END OF EACH CONDUIT (SPECIFIED WITHIN NOTE 4 ABOVE) TO PROTECT CABLES.
 - TYPE "1VW" OUTLETS SHALL BE FURNISHED WITH STAINLESS STEEL WALL-MOUNT TELEPHONE PLATES WITH MOUNTING STUDS AND RECESSED JACKS AND SHALL BE MOUNTED AT 54" A.F.F. UNLESS NOTED OTHERWISE.
 - COMMUNICATION OUTLET SHALL BE LOCATED A MAXIMUM OF 8 INCHES FROM THE ADJACENT POWER OUTLET.
 - ALL AV CABLING TYPES SHALL BE CONFIRMED WITH OWNER PRIOR TO ORDERING MATERIALS.
 - COORDINATE LOCATION OF ALL OUTLETS AT PROJECTOR WITHIN PROJECTOR BASE WHERE POSSIBLE.



DETAIL "E-MSG"
MAIN SERVICE GROUNDING
 SCALE : NONE

- DETAIL NOTES**
- ALL GROUNDING ELECTRODE CONDUCTORS AND MAIN BONDING JUMPERS SHALL BE INSULATED COPPER, SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS NOTED OTHERWISE.
 - THE INTERSYSTEM BONDING JUMPER SHALL BE INSULATED COPPER, SIZED TO MATCH THE GROUNDING ELECTRODE CONDUCTOR OR #6AWG, WHICHEVER IS GREATER.
 - ADDITIONAL GROUND RODS SHALL BE INSTALLED A MINIMUM OF SIX (6) FEET APART AND CONNECTED BY GROUNDING ELECTRODE CONDUCTORS UNTIL THE GROUND RESISTANCE DOES NOT EXCEED FIVE (5) OHMS.
 - ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT (TYPE PER SPECIFICATION REQUIREMENTS) UNLESS SPECIFICALLY NOTED OTHERWISE. METAL CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS.
 - REFER TO "GROUNDING" SPECIFICATIONS SECTION FOR ADDITIONAL GROUNDING REQUIREMENTS.
 - THE CONTRACTOR MAY "DAISY-CHAIN" IDF'S TOGETHER WITH A #4/0G. THIS DETAIL IS NOT INTENDED TO REQUIRE A #4/0G FROM EACH IDF TO THE MDF. THE INTENT OF THIS DETAIL IS TO BOND TOGETHER THE SUPPLEMENTAL GROUND BUS IN THE MDF, ALL IDF'S, AND THE MAIN SERVICE GROUND WITH A #4/0G.
 - WHERE AN IDF IS LOCATED IN A SEPARATE BUILDING FROM THE MDF, THE IDF SHALL ALSO BE BONDED TO THE SERVICE GROUND FOR THE SEPARATE BUILDING CONTAINING THE IDF. THIS REQUIREMENT IS IN ADDITION TO THE BOND TO THE MDF.
 - THE EQUIPMENT WITHIN EACH MDF AND IDF SHALL BE BONDED TO THE SUPPLEMENTAL GROUND BUS IN ACCORDANCE WITH THE STRUCTURED CABLING SPECIFICATIONS, EQUIPMENT SUPPLIER'S DIRECTION AND CODE REQUIREMENTS.

GMC

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 PROJECT ADDRESS

GMC # ABHM220021
 SBC # [ENTER VALUE]

ELECTRICAL
 DETAILS

E3.01
 sheet of

ISSUE DATE
 BID/SET 09/09/2024

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 CHECKED BY: RCR

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7/22/2022 14:02:12 AM TEMPLATE VERSION: 2021

LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTS	LUMENS	LAMPS TYPE	MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
A1	LITHONIA COLUMBIA DAY-BRITE	2ALL4 CTRF-30L-EZ1	277	25	3,000	LED 3500K	CEILING	RECESSED	
A1E	LITHONIA COLUMBIA DAY-BRITE	2ALL4 CTRF-30L-EZ1-EL	277	25	3,000	LED 3500K	CEILING	RECESSED	EM
A2	LITHONIA COLUMBIA DAY-BRITE	2ALL4 CTRF-40L-EZ1	277	32	4,000	LED 3500K	CEILING	RECESSED	
A2E	LITHONIA COLUMBIA DAY-BRITE	2ALL4 CTRF-40L-EZ1-EL	277	32	4,000	LED 3500K	CEILING	RECESSED	EM
A3	LITHONIA COLUMBIA DAY-BRITE	2ALL4 CTRF-48L-EZ1	277	40	4,800	LED 3500K	CEILING	RECESSED	
B1	LITHONIA COLUMBIA DAY-BRITE	2ALL2-20L-EZ1	277	18	2,000	LED 3500K	CEILING	RECESSED	
B1E	LITHONIA COLUMBIA DAY-BRITE	2ALL2-20L-EZ1	277	18	2,000	LED 3500K	CEILING	RECESSED	EM
B2	LITHONIA COLUMBIA DAY-BRITE	2ALL2-33L-EZ1	277	29	3,300	LED 3500K	CEILING	RECESSED	
B2E	LITHONIA COLUMBIA DAY-BRITE	2ALL2-33L-EZ1-EL	277	29	3,300	LED 3500K	CEILING	RECESSED	EM
CF	BIGSASS FANS	HAIKU-60	120	PROVIDED BY MANUFACTURER			AS DIRECTED BY ARCHITECT	PENDANT	FSA
D	GOTHAM PRESCOLITE OMEGA	EV04-35/15-AR-WD-LSS-MVOLT-EZ1	277	14	1527	LED 3500K	CEILING	RECESSED	FSA
DE	GOTHAM PRESCOLITE OMEGA	EV04-35/15-AR-WD-LSS-MVOLT-EZ1-EL	277	14	1527	LED 3500K	CEILING	RECESSED	EM, FSA
D2	GOTHAM PRESCOLITE OMEGA	EV04-40/15-AR-WD-LSS-MVOLT-EZ1	277	14	1527	LED 4000K	CEILING	RECESSED	FSA
D2E	GOTHAM PRESCOLITE OMEGA	EV04-40/15-AR-WD-LSS-MVOLT-EZ1-EL	277	14	1527	LED 4000K	CEILING	RECESSED	EM, FSA
E	GOTHAM PRESCOLITE OMEGA	EV04-35/07-AR-WD-LSS-EZ1	277	8	800	LED 3500K	CEILING	RECESSED	FSA
EE	GOTHAM PRESCOLITE OMEGA	EV04-35/07-AR-WD-LSS-EZ1-EL	277	8	800	LED 3500K	CEILING	RECESSED	EM, FSA
ES	GOTHAM PRESCOLITE OMEGA	EV04SH35/20-DFR-SMO	277	20	1,684	LED 3500K	CEILING	RECESSED	NON-CONDUCTIVE
F2	LITHONIA COLUMBIA DAY-BRITE	WL2-22L	277	21	2,200	LED 3500K	CEILING	SURFACE	
F4	LITHONIA COLUMBIA DAY-BRITE	WL4-30L	277	29	3,000L	LED 3500K	CEILING	SURFACE	
F4E	LITHONIA COLUMBIA DAY-BRITE	WL4-30L-EL7L	277	29	3,000L	LED 3500K	CEILING	SURFACE	EM
G	BOCK LIGHTING	POINTER-01 LVM1-950 GN18J-4R	277	10	950	LED 4000K	ABOVE BUILDING ENTRY SIGN	OUTLET BOX	FSA WET LOCATION
K	VISALIGHTING	OW1307L40K(L)-MVOLT	277	25	2,200	LED 4000K	AS DIRECTED BY ARCHITECT	OUTLET BOX	FSA
P	BROWNLEE LIGHTING	2600-48"-H63"-35K-DIM TO 1%	277	63	7,428	LED 3500K	AS DIRECTED BY ARCHITECT	PENDANT	FSA
R	LUMINAIRE	APX13-NODIM-29W-4000K-FOP	277	25	2,096	LED 4000K	CEILING	SURFACE	FSA
SL	MARK ARCHITECTURAL LIGHTING	SL4L-LOP-FT-RLP-FL-35K-600LMF-LENGTH AS INDICATED ON PLANS	277	6WFT	644 LFT	LED 3500K	CEILING	RECESSED	MOUNTED IN GRID
SL2	MARK ARCHITECTURAL LIGHTING	SL4L-LOP-FT-RLP-FL-35K-600LMF-LENGTH AS INDICATED ON PLANS	277	6WFT	644 LFT	LED 3500K	CEILING	RECESSED	MOUNTED IN GYPSUM
T	BROWNLEE LIGHTING	S165-24"-H16-35K	277	16	1,874	LED 3500K	ABOVE MIRROR	OUTLET BOX	FSA
T2	PROVIDE \$800 ALLOWANCE		277	50 MAX	TBD	LED 3500K	ABOVE MIRROR	OUTLET BOX	FSA
UC	LED LINEAR	LUMINARIS - LD15 CONTOUR 5660 PROVIDE WITH TRANSFORMER	277	15	485 LFT	LED 3500K	UNDER CABINET	OUTLET BOX	UC
W	LITHONIA COLUMBIA DAY-BRITE	WST-LED-P1-40K-VF	277	12	1,494	LED 4000K	AS DIRECTED BY ARCHITECT	OUTLET BOX	FSA
WE	LITHONIA COLUMBIA DAY-BRITE	WST-LED-P1-40K-VF-E7WH	277	12	1,494	LED 4000K	AS DIRECTED BY ARCHITECT	OUTLET BOX	EM, FSA
X1	LITHONIA COLUMBIA DAY-BRITE	EDG-1-GMR-EL	277	FURNISHED BY MANUFACTURER			CEILING OR ABOVE DOOR	OUTLET BOX	EMX, FSA
X2	LITHONIA COLUMBIA DAY-BRITE	EDG-2-GMR-EL	277	FURNISHED BY MANUFACTURER			CEILING OR ABOVE DOOR	OUTLET BOX	EMX, FSA
Y2	LITHONIA KM	DSX1 LED-P3-40K-T2M-MVOLT-SPA-G1	277	102	12,548	LED 4000K	MOUNT ON 28 FOOT SQUARE STEEL POLE. SEE DETAIL "E-LP1"		FSA
Y4	LITHONIA KM	DSX1 LED-P3-40K-TFTM-MVOLT-SPA-G1	277	102	12,575	LED 4000K	MOUNT ON 28 FOOT SQUARE STEEL POLE. SEE DETAIL "E-LP1"		FSA
Z	VISTA PROFESSIONAL LIGHTING	1045-XXWF-40-B-MV-ND-HS	277	21	1,807	LED 4000K	GRADE	CONCRETE ANCHOR BASE	FSA
Z1	VISTA PROFESSIONAL LIGHTING	1045-XXWF-40-A-MV-ND	277	16	1,163	LED 4000K	GRADE	CONCRETE ANCHOR BASE	FSA

NORMAL		EMERGENCY	
	FIXTURE OUTLET - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.		FIXTURE OUTLET - RECESSED LIGHT FIXTURE.
	FIXTURE OUTLET - LINEAR - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.		FIXTURE OUTLET - LINEAR - RECESSED LIGHT FIXTURE.
	FIXTURE OUTLET - WALL MOUNTED LIGHT FIXTURE.		FIXTURE OUTLET - POLELIGHT - SINGLE FIXTURE.
	FIXTURE OUTLET - EXIT SIGN - CEILING OR WALL MOUNTED AS INDICATED - QUANTITY AND ORIENTATION OF FACES AND DIRECTIONAL ARROWS AS INDICATED.		
FIXTURE OUTLET DESIGNATIONS:			
A	FIXTURE TYPE "A" - MAY BE USED WITH OTHER TYPES.	b	SWITCH LEG TO WHICH FIXTURE IS CONNECTED - MAY BE USED WITH OTHER LOWER-CASE LETTERS.
2	CIRCUIT NUMBER - MAY BE USED WITH OTHER NUMBERS.	DL	INDICATES FIXTURE CONTROLLED BY DAYLIGHTING SENSOR.
EM	EMERGENCY FIXTURE.	NL	NIGHT LIGHT - DO NOT SWITCH.
PC	INDICATES FIXTURE CONTROLLED BY PHOTO-CELL.	SL	SECURITY LIGHT - DUSK-TO-DAWN OPERATION.
\$	SWITCH OUTLET - S.P.S.T. - 20A - 120-277VAC.	\$3	SWITCH OUTLET - 3 WAY - 20A - 120-277VAC.
\$4	SWITCH OUTLET - 4 WAY - 20A - 120-277VAC.	\$5	SWITCH OUTLET - CONTROLS OUTLET "a", ETC.
\$X	SWITCH OUTLET - MANUAL MOTOR STARTER - TOGGLE TYPE - 2 POLE - SQUARE "D" TYPE K01 WITH ENCLOSURE AS REQUIRED BY APPLICATION - PROVIDE LOCK-OFF HARDWARE.	\$X	SWITCH OUTLET - MANUAL MOTOR STARTER - TOGGLE TYPE - 3 POLE - SQUARE "D" TYPE K02 WITH ENCLOSURE AS REQUIRED BY APPLICATION - PROVIDE LOCK-OFF HARDWARE.
\$0	SWITCH OUTLET - OCCUPANCY SENSOR WITH MANUAL OVERRIDE - S.P.S.T. - 120V - 277VAC - P.I.R. SENSOR - ACUITY N-LIGHT OR EQUAL - RATED 800W AT 120VAC AND 1200W AT 277VAC - GREY WITH STAINLESS STEEL COVERPLATE.		
\$	LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT ON/OFF CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM "E-RC".		
\$0	LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT DIMMING AND ON/OFF CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM "E-RC".		
\$F	SWITCH OUTLET - FAN SPEED CONTROL ARCHITECTURAL PRESET DIMMER - 7.5A - 120VAC - S.P.S.T. - LEVITON RENOR SERIES - DO NOT REMOVE HEAT-DISSIPATING FINS - VERIFY THAT LOAD DOES NOT EXCEED SWITCH RATING PRIOR TO ORDERING.		
PC/LV	PHOTOELECTRIC CONTROL - LOW VOLTAGE - COMPATIBLE WITH LIGHTING CONTROL PANEL.		
	LIGHTING CONTROL PANEL.		
	LIGHTING CONTROL SYSTEM - ROOM CONTROLLER - LOW VOLTAGE - ACUITY N-LIGHT OR EQUAL - MOUNT AS DIRECTED BY SUPPLIER ABOVE CEILING - PROVIDE WITH POWER PACK - MAKE ALL CONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".		
	LIGHTING CONTROL SYSTEM - NETWORKED ON/OFF ROOM CONTROLLER(S) - LOW VOLTAGE - ACUITY N-LIGHT OR EQUAL - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AND TO NETWORK TO CENTRAL LIGHTING CONTROL SYSTEM AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".		
	LIGHTING CONTROL SYSTEM - DIMMING ROOM CONTROLLER - LOW VOLTAGE - ACUITY N-LIGHT OR EQUAL - MOUNT AS DIRECTED BY SUPPLIER ABOVE CEILING - PROVIDE WITH POWER PACK - MAKE ALL CONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".		
	LIGHTING CONTROL SYSTEM - OCCUPANCY SENSOR - LOW VOLTAGE - DUAL TECHNOLOGY (P.I.R. AND ULTRASONIC) - EXACT SENSOR TYPE AND LOCATION SHALL BE CHOSEN BY LIGHTING CONTROL SYSTEM SUPPLIER FOR PROPER COVERAGE - MOUNT AS DIRECTED BY SUPPLIER - PROVIDE WITH POWER PACK(S) (LOCATED ABOVE CEILING IN ACCESSIBLE LOCATION) AS REQUIRED TO CONTROL ALL LOCAL LIGHTING - MAKE ALL CONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC" - ACUITY N-LIGHT OR EQUAL.		
	LIGHTING CONTROL SYSTEM - DAYLIGHTING SENSOR - CEILING OR WALL MOUNTED AS INDICATED - EXACT MOUNTING PROVISIONS, SENSOR TYPE AND LOCATION SHALL BE AS DIRECTED BY SUPPLIER FOR PROPER COVERAGE - DIGITAL - DIMMING - WATSTOPPER LMLS SERIES - CONNECT TO ASSOCIATED ROOM CONTROLLER SIMILAR TO DIAGRAM "E-RC".		
	WALL OUTLET - DUPLEX RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - TAMPER RESISTANT - NEMA 5-20R.		
	WALL OUTLET - DUPLEX RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - TAMPER RESISTANT - NEMA 5-20R - LOCATE ADJACENT TO A/V OUTLET.		
	WALL OUTLET - DOUBLE DUPLEX RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - TAMPER RESISTANT - TWO (2) NEMA 5-20R - SINGLE PLATE.		
	WALL OUTLET - DUPLEX RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - TAMPER RESISTANT - "GF" TYPE - WEATHER RESISTANT - NEMA 5-20R.		
	WALL OUTLET - DOUBLE DUPLEX RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - TAMPER RESISTANT - "GF" TYPE - WEATHER RESISTANT - TWO (2) NEMA 5-20R - SINGLE PLATE.		
	WALL OUTLET - SINGLE RECEPTACLE - 30A - 125/250V - 1P - 3P - 4W - GROUNDING - NEMA 14-30R.		
	WALL OUTLET - SINGLE RECEPTACLE - 15A - 125V - 2P - 3W - GROUNDING - CLOCK OUTLET - HUBBELL HBL5235.		
	MULTISERVICE FLOOR BOX - SEE DETAIL "E-FBI" - "VVD" REPRESENTS REQUIRED COMMUNICATIONS JACK CONFIGURATION - PROVIDE COMMUNICATIONS JACKS, CABLING ETC. PER COMMUNICATION OUTLET LEGEND AT "E-CO".		
	COMMUNICATIONS OUTLET - SEE DETAIL "E-CO" - "VVD" REPRESENTS REQUIRED COMMUNICATIONS JACK CONFIGURATIONS.		
	WIRELESS ACCESS POINT - ABOVE CEILING - PROVIDE OUTLET BOX ABOVE ACCESSIBLE CEILING FOR OWNER-PROVIDED DATA SYSTEM WIRELESS ACCESS POINT - WITH ONE (1) DATA CABLE TO RACK WITHIN NEAREST TELECOMM EQUIPMENT ROOM - TERMINATE CABLE AT PATCH PANEL WITHIN EQUIPMENT ROOM AND LEAVE 10'-0" SLACK CABLE NEATLY COILED ABOVE CEILING AT LOCATION OF ACCESS POINT.		
	CONDUIT SLEEVE - SIZE AS INDICATED ON PLAN (2" MINIMUM) WITH NYLON BUSHING ON BOTH ENDS - SEAL FIRE BARRIER PENETRATIONS INSIDE OF SLEEVE IN ACCORDANCE WITH A U.L. LISTED ASSEMBLY.		
	CABLE TRAY - SEE SPECIFICATIONS.		
	TELEPHONE BACKBOARD - 8" H x 3/4" THICK x LENGTH AS SHOWN ON PLANS - FINISH WITH TWO (2) COATS FIRE-RETARDANT ENAMEL PAINT - PAINT COLOR TO MATCH SURROUNDING WALLS.		

GENERAL ELECTRICAL LEGEND	
	COMMUNICATIONS CABLING - "VVD" REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.
	COMMUNICATIONS CABLING - HOMERUN TO NEAREST COMMUNICATIONS BACKBOARD, RACK OR CABINET AS APPLICABLE - "VVD" REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.
OUTLET DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):	
A	ABOVE COUNTER - OUTLET SHALL BE MOUNTED 6 INCHES ABOVE DESK/COUNTERTOP, OR 4 INCHES ABOVE COUNTERTOP BACKSPLASH AS REQUIRED BY CONDITION, OR 48" A.F.F. OR AS NOTED.
C	OUTLET MOUNTED FLUSH WITHIN CEILING - VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.
CC	INSTALL OUTLET WITHIN CASEWORK AND ROUTE CIRCUITRY (IN CONDUIT) WITHIN CASEWORK AS DIRECTED BY CASEWORK PROVIDER.
DF	DRINKING FOUNTAIN OUTLET - EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.
E	EMERGENCY CIRCUIT - PROVIDE RED DEVICE - MAINTAIN SEPARATION BETWEEN NORMAL AND EMERGENCY CIRCUITRY (WITH SEPARATE CONDUITS AND METAL BARRIERS AS REQUIRED) PER NEC ARTICLE 700.9(B).
NL	NIGHT LIGHT - DO NOT SWITCH.
VL	VERIFY EXACT OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
W	WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, IN-USE, CAST COVER.
WG	WREGUARD - EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH FACTORY FURNISHED WREGUARD.
EQUIPMENT OUTLET DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):	
COP	COPYING MACHINE OUTLET.
DF	DRINKING FOUNTAIN OUTLET - EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.
DR	DRYER OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
DW	BELOW COUNTER DISHWASHER OUTLET - VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER.
GD	GARAGE DISPOSAL OUTLET - VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER - PROVIDE TOGGLE-TYPE CONTROL SWITCH (IN CAST BOX) IN ACCESSIBLE LOCATION IN BASE CABINET BELOW SINK UNLESS SHOWN OTHERWISE.
HD	VENTILATION HOOD OUTLET.
MW	MICROWAVE (OR COMBINATION MICROWAVE/VENTILATION HOOD) OUTLET - VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
RF	REFRIGERATOR/FREEZER OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
TV	TELEVISION OUTLET - MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
VV	VENDING MACHINE OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
WM	WASHING MACHINE OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
	FLOOR OR SURFACE-MOUNTED OUTLET - JUNCTION BOX - CROUSE HINDS CAST TYPE FS/PD BOX.
	WALL OUTLET - JUNCTION BOX - FLUSH MOUNTED.
	CEILING OUTLET - JUNCTION BOX.
	BRANCH/FEEDER CIRCUIT - CONCEALED IN WALLS OR CEILING.
	BRANCH/FEEDER CIRCUIT - EXPOSED ON WALLS OR CEILING.
	BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.
	BRANCH/FEEDER CIRCUIT - HOMERUN - 2 #12 & 1 #12G, 3 #12 & 1 #12G, ETC. UNLESS SHOWN OTHERWISE.
	BRANCH/FEEDER CIRCUIT - HOMERUN - 2 #10 & 1 #10G, 3 #10 & 1 #10G, ETC. - MAY BE USED WITH OTHER WIRE SIZES.
	FLEXIBLE CONNECTION TO EQUIPMENT.
	BRANCH CIRCUIT - RISER DOWN OR GENERAL CONDUIT STUB-OUT.
	DISTRIBUTION CENTER OR MOTOR CONTROL CENTER.
	LIGHTING PANEL - SURFACE MOUNTED.
	LIGHTING PANEL - FLUSH MOUNTED.
	LIGHTING CONTROL PANEL.
	TRANSFORMER - POWER.
	MAGNETIC MOTOR STARTER.
	DISCONNECT SWITCH - NON-FUSED.
	DISCONNECT SWITCH - FUSED.
	DISCONNECT SWITCH - FURNISHED BY MECHANICAL WITH EQUIPMENT.
	ELEVATOR DISCONNECT SWITCH - FUSED - FURNISH WITH AUXILIARY CONTACTS FOR ELEVATOR CONTROL FUNCTIONS.
	VARIABLE FREQUENCY DRIVE - FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
	HVAC CONTROL POWER - 120V-1P.
	GROUND CONNECTION.
	MOTOR OUTLET - SIZE AS SHOWN.
	PAGING SYSTEM - SPEAKER - CEILING MOUNTED - BOGEN CS2X/2UCA 2X2 SPEAKER WITH BACK CAN - FURNISHED AND INSTALLED BY CONTRACTOR - PROVIDE 2-PR ZZZ SHIELDED SPEAKER CABLING AS DIRECTED BY TELEPHONE EQUIPMENT SUPPLIER FROM ALL SPEAKERS TO COMMUNICATION ROOM - VERIFY ALL REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER.
	FAMILY VISITATION SOUND SYSTEM - CEILING MOUNTED MICROPHONE/SPEAKER - AIPHONE SP-20N SPEAKER WITH T-BAR SUPPORTS - CONNECTED TO AMPLIFIER WITH WIRING AS REQUIRED IN 3/4" CONDUIT.
	FAMILY VISITATION SOUND SYSTEM - INTERCOM STATION - AIPHONE LEM-1 MASTER STATION - MODIFY TO ADD HEADPHONE JACK - MODIFICATION SHALL BE DONE BY A LICENSED INSTALLER AND SHALL NOT VOID WARRANTY.
	PROJECTION SCREEN - VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN - INCLUDE ALL CONNECTIONS FOR POWER AND CONTROL.
	CONTROL STATION - FURNISHED BY OTHERS - INSTALLED BY ELECTRICAL CONTRACTOR - FURNISH WIRING AS REQUIRED IN CONDUIT SIZED AS REQUIRED TO CONTROLLED DEVICE - VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
	CCTV SYSTEM - CAMERA.
	CCTV SYSTEM - CAMERA - WEATHERPROOF.
	CCTV SYSTEM - DVR.
	PANIC BUTTON - 3/4" CONDUIT TO ABOVE LAY-IN CEILING WITH WIRING AS REQUIRED IN 3/4" CONDUIT TO MASTER IN SERVER ROOM.
	PANIC LIGHT - 6"-0" A.F.F. - 3/4" CONDUIT TO ABOVE LAY-IN CEILING WITH WIRING AS REQUIRED IN 3/4" CONDUIT TO MASTER IN SERVER ROOM.

	FIRE ALARM - ANNUNCIATOR PANEL - FLUSH MOUNTED - UNLESS NOTED OTHERWISE ON PLANS.
	FIRE ALARM - CONTROL PANEL.
	FIRE ALARM - PULL STATION.
	FIRE ALARM - SMOKE DETECTOR.
	FIRE ALARM - HEAT DETECTOR.
	FIRE ALARM - SMOKE DETECTOR - DUCT MOUNTED - LOCATE AS DIRECTED BY MECHANICAL - FURNISH CONTROL RELAY COMPATIBLE WITH FIRE ALARM SYSTEM FOR FAN SHUT DOWN - FURNISH TEST/ALARM INDICATOR STATION(S) LOCATED IN ACCESSIBLE, INCONSPICUOUS LOCATION AS APPROVED BY AUTHORITY HAVING JURISDICTION.
	FIRE ALARM - SMOKE DETECTORS - DUCT MOUNTED - LOCATE DETECTORS (QUANTITIES AS REQUIRED) IN SUPPLY DUCT(S) AND RETURN DUCT(S) FOR INDICATED UNIT AS DIRECTED BY MECHANICAL PER CODE REQUIREMENTS - FURNISH RELAY COMPATIBLE WITH FIRE ALARM SYSTEM FOR FAN SHUT DOWN - FURNISH REMOTE TEST/ALARM INDICATOR STATION(S) LOCATED IN ACCESSIBLE, INCONSPICUOUS LOCATION AS APPROVED BY AUTHORITY HAVING JURISDICTION.
	FIRE ALARM - VISUAL INDICATOR ONLY.
	FIRE ALARM - COMBINATION HORN AND VISUAL INDICATOR - WALL MOUNTED.
	FIRE ALARM - COMBINATION HORN AND VISUAL INDICATOR - CEILING MOUNTED.
	FIRE ALARM - MAGNETIC DOOR HOLDER.
	BRANCH CIRCUIT - FIRE ALARM - WIRING AS REQUIRED IN N.E.C.-SIZED CONDUIT.
	FIRE ALARM - FLOW SWITCH.
	FIRE ALARM - TAMPER SWITCH.
	FIRE ALARM - ADDRESSABLE CONTROL RELAY(S) FOR ELEVATOR, SMOKE CONTROL FUNCTIONS OR OTHER CONTROL FUNCTIONS.
	SECURITY SYSTEM - DOOR CONTACT SWITCH.
	SECURITY SYSTEM - MOTION DETECTOR.
	SECURITY SYSTEM - KEYPAD.
	SECURITY SYSTEM - MASTER.
	EMERGENCY RESPONDER RADIO SYSTEM - MASTER EQUIPMENT - SEE RISER DIAGRAM.
	EMERGENCY RESPONDER RADIO SYSTEM - ANNUNCIATOR.
	SECURITY SYSTEM - MOTION DETECTOR.
	SECURITY SYSTEM - SIREN.
	ACCESS CONTROL SYSTEM - CARD READER - 48" AFF - 3/4" CONDUIT TO ABOVE CEILING IN CORRIDOR - WITH WIRING AS REQUIRED TO MASTER IN SERVER ROOM.
	CARD READER - POWER SUPPLY - 120V - 1P.
	ACCESS CONTROL SYSTEM - WIRING AS REQUIRED IN 3/4" CONDUIT TO DOOR FRAME FOR DEVICES AS REQUIRED - COORDINATE WITH DOOR HARDWARE SUPPLIER FOR EXACT REQUIREMENTS.
	DETAIL DESIGNATOR - "A" INDICATED DETAIL MARK - "E-1" INDICATED SHEET NUMBER WHERE DETAIL IS LOCATED (TYPICAL).

GENERAL ELECTRICAL NOTES	
1.	CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR TELEPHONE AND POWER SERVICES WITH RESPECTIVE UTILITY COMPANIES PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ARCHITECT IMMEDIATELY. ALL COSTS INCURRED WITH UTILITY COMPANIES FOR SERVICES SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.
2.	THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT OR ORDERING CIRCUIT PROTECTION DEVICES. CONTRACTOR SHALL ADJUST CONDUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY ARCHITECT IMMEDIATELY.
3.	CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ARCHITECT.
4.	THIS CONTRACTOR SHALL REVIEW ARCHITECTURAL CASEWORK ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO ROUGHING-IN OUTLETS AT CASEWORK. ADJUST OUTLET LOCATIONS AS REQUIRED TO ACCOMMODATE ACTUAL CASEWORK DESIGN.