

REGIONAL MAP



SCALE: NOT TO SCALE



LOCATION MAP



SCALE: NOT TO SCALE

BATTALION BUILDING TT S233 CAMP MCCAIN TRAINING CENTER PN: 282502025

**ARMY NATIONAL GUARD
GRENADA, MISSISSIPPI**

ABBREVIATIONS

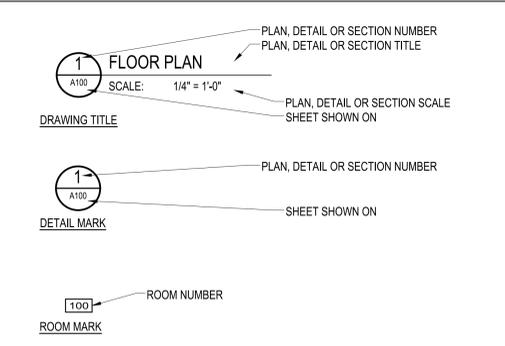
±	PLUS OR MINUS	FT.	FOOT, FEET	STRUCT.	STRUCTURE
&	AND	FTG.	FOOTING	TBM	TEMPORARY BENCHMARK
@	AT	FIN.	FINISHED	TC	TOP OF CURB
A/C	AIR CONDITIONER	FIN. FL.	FINISHED FLOOR	T.O.M.	TOP OF MASONRY
A.F.F.	ABOVE FINISH FLOOR	F.F.E.	FINISHED FLOOR ELEVATION	TRANS.	TRANSFORMER
ACM	ASBESTOS CONTAINING MATERIAL	GA.	GAUGE	TW	TOP OF WALK
AC-PCC	ASPHALT CONCRETE-PORTLAND CEMENT CONCRETE	GALV	GALVANIZED	TYP.	TYPICAL
ADJ.	ADJUSTABLE	GR	GROUND	U.O.N.	UNLESS OTHERWISE NOTED
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	H2O	WATER	VERT.	VERTICAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HDPE	HIGH DENSITY POLYETHYLENE	W/	WITH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	H.P.T.	HOSE PIPE THREAD	W/O	WITHOUT
APPROX.	APPROXIMATELY	HVAC	HEAT AND VENTILATION AIR CONDITIONER	W.W.F.	WELDED WIRE FABRIC
AFF	AQUEOUS FILM FORMING FLUID	HC	HANDICAP		
BLDG.	BUILDING	HR.	HOUR		
BTU	BRITISH THERMAL UNITS	IE	INVERT ELEVATION		
Ⓢ	CENTERLINE	IE, INV.	INVERT		
CB	CATCH BASIN	IN	INCH, INCHES		
CFST	COLD FORMED STEEL TRUSS	JT.	JOINT		
CLR	CLEAR	LBS	POUNDS		
COL.	COLUMN	LF	LINEAR FEET		
CONC.	CONCRETE	MAX.	MAXIMUM		
CONT.	CONTINUOUS	MIN.	MINIMUM		
CMP	CORRUGATED METAL PIPE	MFR.	MANUFACTURER		
DBL.	DOUBLE	MPH	MILES PER HOUR		
DIA.	DIAMETER	NO. #	NUMBER		
D.S.	DOWNSPOUT	N.P.T.	NATIONAL PIPE THREAD		
DWG	DRAWING	O.C.	ON CENTER		
EA.	EACH	P.V.M.T.	PAVEMENT		
E.W.	EACH WAY	PVC	POLYVINYL CHLORIDE		
ELEV. EL.	ELEVATION	P.S.I.	POUNDS PER SQUARE INCH		
EQUIP.	ELECTRICAL EQUIPMENT	PSF	POUNDS PER SQUARE FOOT		
ELECT.	ELECTRICAL EQUIPMENT	PMB	PRE-ENGINEERED METAL BUILDING		
EXIST.	EXISTING	R/R	RAILROAD		
FEC	FIRE EXTINGUISHER CABINET	RCP	REINFORCED CONCRETE PIPE		
FL	FLEXIBLE	R.D.	ROOF DRAIN		
		REINF.	REINFORCING		
		REQ'D	REQUIRED		
		SCH	SCHEDULE		
		SHT.	SHEET		

DRAWING INDEX

SHEET NO.	TITLE
G100	<u>GENERAL</u> TITLE SHEET
C001	<u>CIVIL</u> SITE SURVEY
C100	SITE LAYOUT SOIL BORING LOGS / LANDSCAPING
C101	SITE GRADING PLAN PAVEMENT / SIDEWALK LAYOUT
C102	SITE UTILITIES
C200	TYPICAL PAVEMENT AND WALK DETAILS
C201	SITE DETAILS
S000	<u>STRUCTURAL</u> STRUCTURAL GENERAL NOTES AND LEGEND
S100	FOUNDATION PLAN
S101	FOUNDATION DETAILS
S102	ROOF TRUSS PLAN AND ELEVATIONS
A100	<u>ARCHITECTURAL</u> FLOOR PLAN
A101	REFLECTED CEILING PLAN
A102	ROOF PLAN
A103	SIGNAGE PLAN
A110	ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS
A111	CASEWORK SECTIONS
A200	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A400	WALL SECTIONS
A500	SCHEDULES
A501	DOOR AND WINDOW DETAILS
FA100	<u>FIRE PROTECTION</u> FIRE ALARM PLAN
FP100	FIRE PROTECTION PLAN
P001	<u>PLUMBING</u> PLUMBING LEGEND, NOTES, AND ABBREVIATIONS
P100	PLUMBING FLOOR PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P701	PLUMBING RISERS

SHEET NO.	TITLE
M001	<u>MECHANICAL</u> MECHANICAL LEGEND, NOTES, AND ABBREVIATIONS
M100	MECHANICAL HVAC PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS AND CONTROLS DIAGRAM
M601	MECHANICAL SCHEDULES
E001	<u>ELECTRICAL</u> ELECTRICAL LEGEND
ES100	ELECTRICAL SITE PLAN
E100	POWER PLAN
EL100	LIGHTING PLAN
EG100	LIGHTNING PROTECTION PLAN
E500	ELECTRICAL DETAILS
E501	ELECTRICAL DETAILS
E600	PANEL SCHEDULES
E700	LIGHTING SLIDES
T100	<u>TELECOMMUNICATIONS</u> TELECOM PLAN

LEGEND AND SYMBOLS

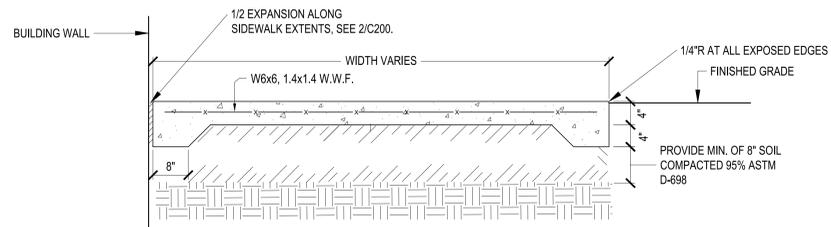


PN: 28250205
BATTALION HQ BUILDING TT S233
CAMP MCCAIN, GRENADA, MISSISSIPPI

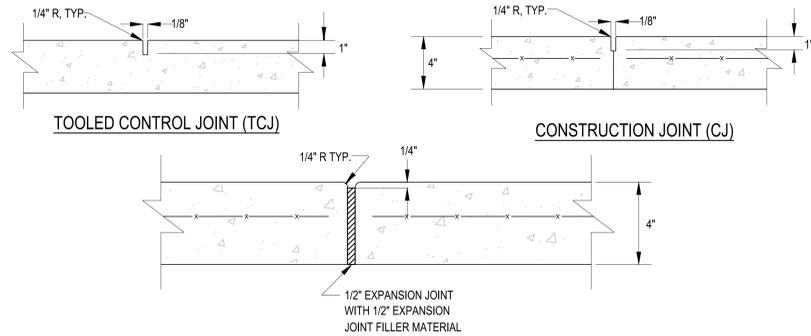
THE TITLE SHEET

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	G100

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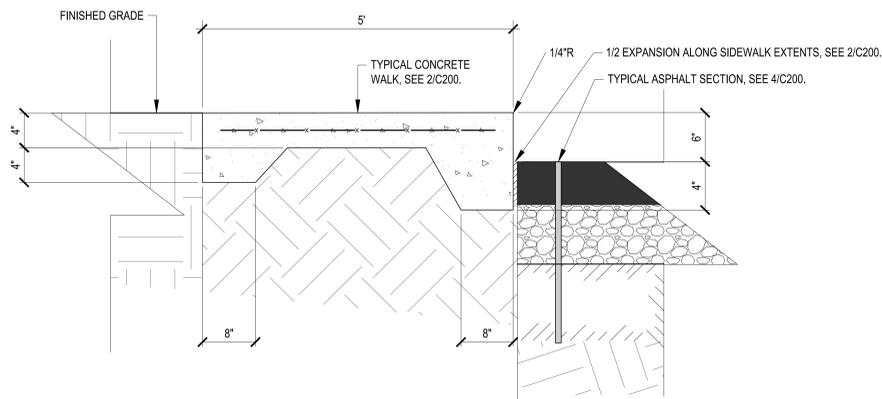
1 TYPICAL CONCRETE WALK DETAIL
SCALE: NONE



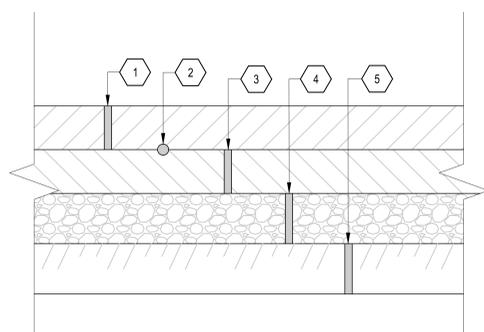
NOTE:

1. CONTRACTOR MAY USE CONSTRUCTION JOINTS IN LIEU OF CONTROL JOINTS AT HIS OPTION.
2. PROVIDE CONTROL/CONSTRUCTION JOINTS AT MAXIMUM A SPACING OF 5 FEET ON CENTER.
3. PROVIDE A CONTROL / CONSTRUCTION JOINT ALONG THE CENTERLINE OF 10' SIDEWALKS.
4. PROVIDE EXPANSION JOINTS AT MAXIMUM SPACINGS OF 40 FEET ON CENTER AND AT THE ABUTMENT OF ALL STRUCTURES.

2 TYPICAL CONCRETE WALK JOINT DETAILS
SCALE: NONE



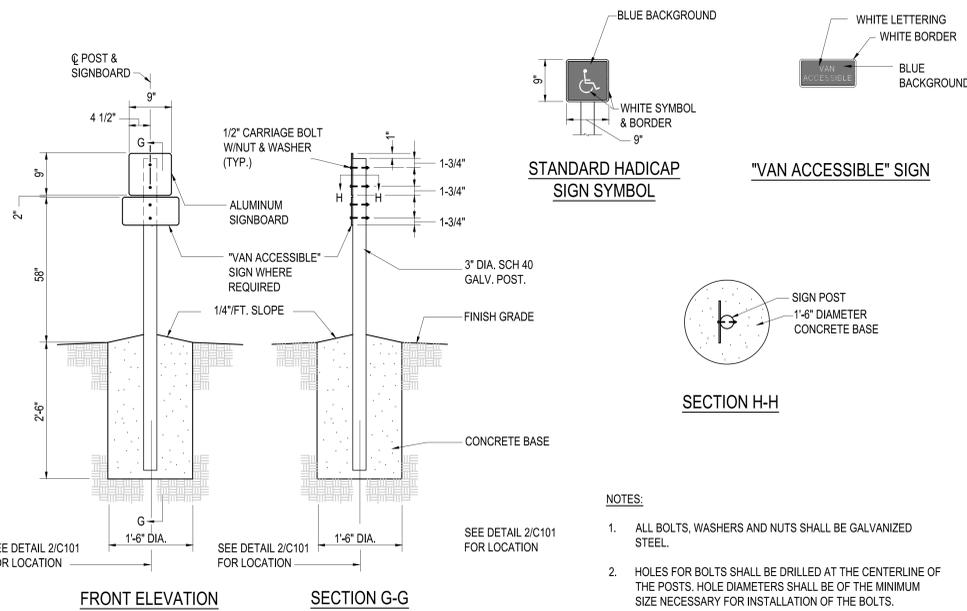
3 WALKWAY SECTION AT PARKING AREA
SCALE: NONE



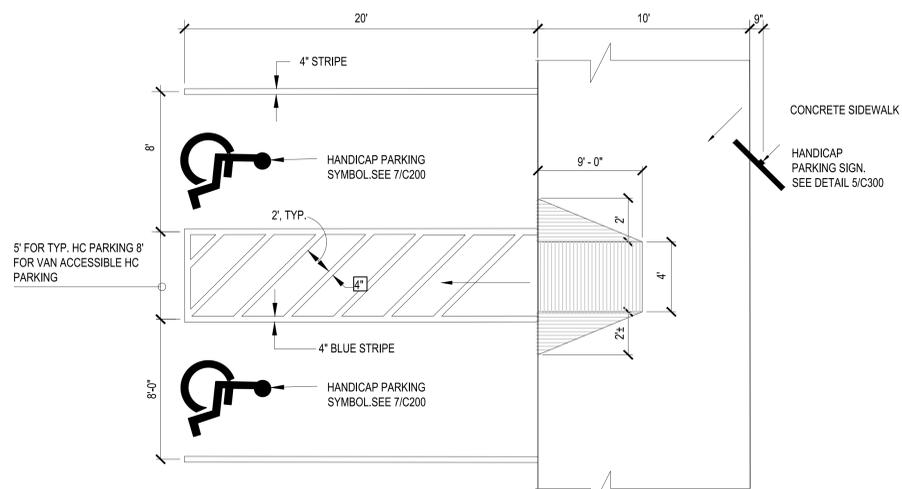
NOTES:

1. 2" WEARING COURSE
2. TACK COAT.
3. 2" BITUMINOUS BASE.
4. 6" CRUSHED AGGREGATE SUBBASE COMPACTED TO 98% ASTM D-698.
5. 12" PROCESSED IN-SITE SOILS OR FILL COMPACTED TO 95% ASTM D-698.

4 TYPICAL PAVEMENT DETAILS
SCALE: NONE

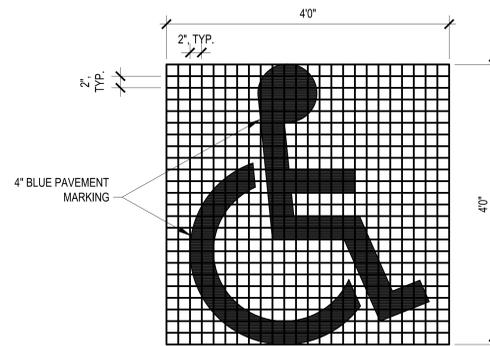


5 TYPICAL HANDICAP PARKING SIGN DETAIL
SCALE: NONE



6 TYPICAL HANDICAP PARKING SPACE AND SIDEWALK RAMP DETAILS
SCALE: NONE

NOTE: HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT SLOPE MORE THAN 1:50 IN ALL DIRECTIONS.



7 TYPICAL HANDICAP SYMBOL DETAIL
SCALE: NONE

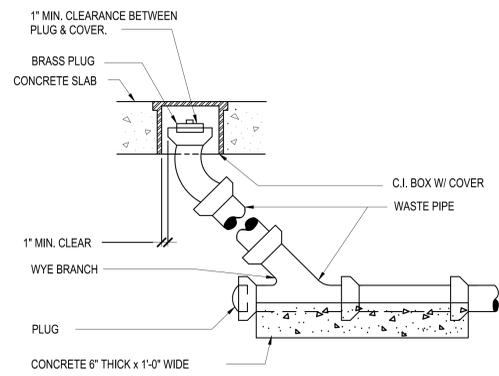


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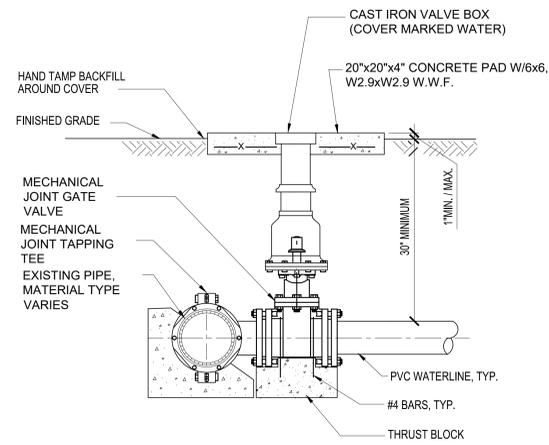
JMA THE Johnson · M°Adams FIRM P.A.
ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI · (662) 455-4943

TYPICAL PAVEMENT AND WALK DETAILS

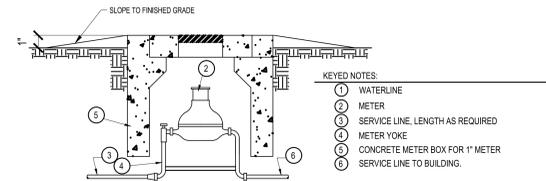
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12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	C200



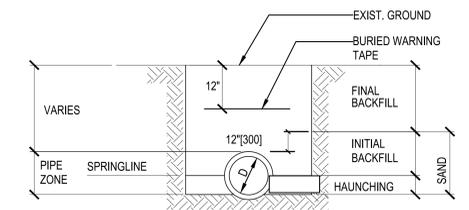
1 TYPICAL CLEANOUT DETAIL
C201 SCALE: NONE



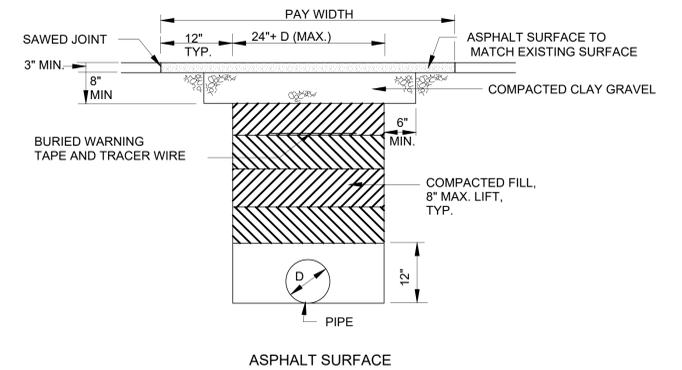
2 TYPICAL WET TAP CONNECTION
C201 SCALE: NONE



3 WATER METER SETTING DETAIL
C201 SCALE: NONE



TURFED AREA



ASPHALT SURFACE

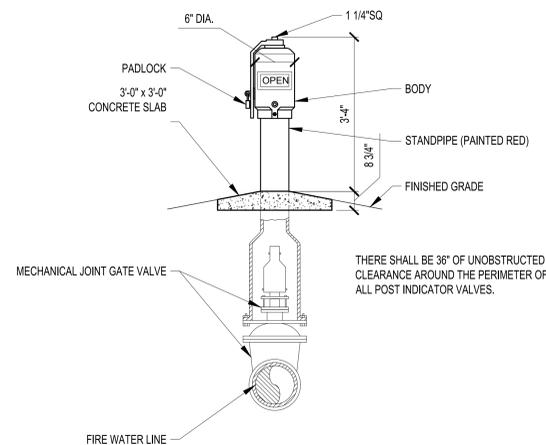


SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
6" [150] OR SMALLER	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
8" [200]	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"

NOTES: 1. BASED ON 100 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER, ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

5 STANDARD THRUST BLOCK DETAILS
C201 SCALE: NONE

4 TYPICAL TRENCH DETAILS
C201 SCALE: NONE



THERE SHALL BE 36\"/>

6 POST INDICATOR VALVE
C201 SCALE: NONE



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John M. Adams FIRM P.A.
ARCHITECTS/ENGINEERS/PLANNING/SURVEYING/MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI • (662) 455-4943

SITE DETAILS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	C201

STRUCTURAL GENERAL NOTES

ABBREVIATIONS

DESIGN CRITERIA

CODES AND STANDARDS

- A. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE (ACI), ACI 318-02.
- B. MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, ASCE 7-10.
- C. INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION
- D. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STEEL CONSTRUCTION MANUAL, 13TH ADDITION

1.0 MINIMUM DESIGN LOADS AND REQUIREMENTS IN ACCORDANCE WITH IBC, 2006

FLOOR LIVE LOADS:

FLOOR LIVE LOAD (SLAB ON GRADE)	100 PSF *
FLOOR LIVE LOAD (ABOVE 1ST FLOOR)	100 PSF *
MISC. COLLATERAL DEAD LOAD	10 PSF
INTERIOR PARTITION DEAD LOAD ALLOWANCE	20 PSF
* REDUCTION IN FLOOR LIVE LOADS NOT PERMITTED.	
ROOF LIVE LOAD	20 PSF **
** ROOF LIVE LOAD REDUCTION ALLOWED AS PER IBC	
GROUND SNOW LOAD	5 PSF

WIND DESIGN DATA:

BASIC WIND SPEED	115 MPH
WIND IMPORTANCE FACTOR	-1.0
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	±.18
COMPONENTS AND CLADDING DESIGN PRESSURE	SEE TABLE 1 & 2

TABLE 1: COMPONENTS & CLADDING ROOF

AREA	SURFACE PRESSURE (psf)		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-26.4	-24.7	-23.9
NEGATIVE ZONE 2	-45.9	-37.4	-33.7
NEGATIVE ZONE 3	-67.9	-57.7	-53.3
NEGATIVE ZONE 4	16.6	16.0	16.0
OVERHANG ZONE 1	-53.7	-53.7	-53.7
OVERHANG ZONE 2	-90.4	-69.9	-61.1

TABLE 2: COMPONENTS & CLADDING WALLS

AREA	SURFACE PRESSURE (psf)		
	10 SF	50 SF	100 SF
NEGATIVE ZONE 4	-31.3	-27.0	-23.9
NEGATIVE ZONE 5	-38.6	-30.0	-23.9
POSITIVE ZONE 4&5	28.8	24.5	21.5

EARTHQUAKE DESIGN DATA:

SEISMIC IMPORTANCE FACTOR	1.0
OCCUPANCY CATEGORY	II
S_g	0.312
S_y	0.144
SITE CLASS	D
S_{MS}	0.322
S_M	0.214
SEISMIC DESIGN CATEGORY	D
SEISMIC MOMENT RESISTANCE SYSTEM	MOMENT RESISTING FRAME
DESIGN BASE SHEAR	0.076 W
C_g	0.076
R	4.0
DESIGN METHOD	ORDINARY REINFORCED SHEAR WALL
FLOOD DESIGN DATA	NOT APPLICABLE
SPECIAL LOADS	NOT APPLICABLE
SPECIAL SEISMIC INSPECTION	NOT APPLICABLE

2.0 MATERIALS

CONCRETE (28-DAY STRENGTH):

CONCRETE EXPOSED TO WEATHER	4000 PSI
FLOOR SLABS	4000 PSI
ALL OTHERS	4000 PSI

REINFORCING:

BARS	ASTM A615/A615M
WELDED WIRE FABRIC	ASTM A185

BOLTS:

BOLTS	ASTM A325, BEARING TYPE N
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CONCRETE MASONRY UNITS:

HOLLOW LOAD BEARING UNITS	ASTM C90
---------------------------	----------

MORTAR:

MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270. ALL GROUT SHALL BE PUDDLED OR VIBRATED IN PLACE BY LOW LIFT METHOD.

ANCHOR RODS:

ANCHOR RODS	ASTM F1554, GRADE 36
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GROUT:

GROUT	5 KSI
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3.0 CAST-IN-PLACE CONCRETE NOTES

3.1 CONCRETE COVER FOR REINFORCEMENT:

- A. CONCRETE DEPOSITED AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- B. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #5 BARS OR SMALLER 1 1/2"
 - #3 BARS OR LARGER 2"
- C. CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH GROUND:
 - SLABS, WALLS, AND JOISTS 1"
 - BEAMS 1 1/2"

3.2 UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE 3.3 BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.

3.3 REINFORCING BAR DEVELOPMENT LENGTHS L_d ($f_c = 4000$ PSI)

BAR SIZE	DEVELOPMENT LENGTH	BAR SIZE	DEVELOPMENT LENGTH
#3	14	#7	42
#4	19	#8	47
#5	24	#9	53
#6	28	#10	59

NOTE: THIS TABLE IS BASED ON BAR CLEAR SPACING OF 2 BAR DIAMETER MIN. FOR BAR CLEAR SPACING LESS THAN 2 BAR DIAMETER, MULTIPLY THE ABOVE VALUES BY 2.0.

3.4 LAP SPICE LENGTHS FOR REINFORCING BARS SHALL BE THE SAME AS TABLE IN NOTE 3.3 ABOVE. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE GOVERNS THE LAP LENGTH UNLESS SPECIFICALLY NOTED OTHERWISE.

3.5 WHEN REINFORCING STEEL IS NOTED AS CONTINUOUS REINFORCING IN GRADE BEAMS, WALLS, SLABS AND/OR BEAMS, SPICE CONTINUOUS REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 40". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE. LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS, OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.

3.6 HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90-DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 42 BAR DIAMETERS AT CORNERS AND INTERSECTIONS.

3.7 HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE DRAWINGS. VERTICAL JOINTS SHALL OCCUR AT LOCATIONS INDICATED.

3.8 AT CONSTRUCTION JOINTS, CONTACT SURFACES SHALL BE CLEAN AND FREE OF LAITANCE AND INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH

3.9 PROVIDE FULL EMBEDMENT WITH 90-DEGREE HOOKS FOR ALL DOWELS IF NOT OTHERWISE NOTED.

3.10 CHAMFER ALL EXPOSED TO VIEW CORNERS 3/4", U.N.O.

4.0 MASONRY:

4.1 MASONRY UNITS SHALL BE INTEGRAL COLORED, GRADE N-1, TWO CELL UNITS CONFORMING TO THE ASTM C 90. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C 270. ALL GROUT SHALL BE PUDDLED OR VIBRATED IN PLACE. WHERE REQUIRED, CELLS SHALL BE SOLIDLY FILLED WITH 2000 PSI GROUT. POURS SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT FOUR JOINTS.

4.2 UNLESS OTHERWISE NOTED, ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_m) OF 2000 PSI AT 28 DAYS.

4.3 REINFORCED CONCRETE MASONRY, STRUCTURAL STEEL OR CAST-IN-PLACE LINTELS SHALL BE PROVIDED AT EACH DOOR OR WINDOW OPENING AS INDICATED IN THE TYPICAL DETAILS.

4.4 ALL REINFORCING BARS IN MASONRY (INCLUDING, BUT NOT LIMITED TO DOWELS, BOND BEAMS, LINTELS, ETC.) SHALL BE EMBEDDED OR LAPPED A MINIMUM OF 54 BAR DIAMETERS. REINFORCING IN LINTEL OR NON-CONTINUOUS BOND BEAMS SHALL BE EXTENDED 54 BAR DIAMETERS INTO ADJACENT MASONRY OR CONCRETE. PROVIDE ACI STANDARD HOOKS WHERE LAPPING OR EMBEDMENT NOT POSSIBLE.

4.5 MINIMUM WALL REINFORCEMENT: #5 VERTICAL REINFORCEMENT SHALL BE PROVIDED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL AT EACH CORNER, AT EACH SIDE OF EACH OPENING, AT THE ENDS OF WALLS AND AT A MAXIMUM SPACING OF 32" O.C. HORIZONTALLY THROUGHOUT THE WALLS. HORIZONTAL REINFORCEMENT NOT LESS THAN (2) #4 SHALL BE PROVIDED AS FOLLOWS:

- A) AT THE BOTTOM AND TOP OF WALL OPENINGS WITH ACI HOOKS AROUND VERTICAL BARS.
- B) CONTINUOUSLY AT THE TOP OF WALLS
- C) BETWEEN WALL OPENINGS AT 4'-0" AFF & 8'-0" AFF. HORIZONTAL BARS STOPPED AT WALL OPENINGS SHALL BE PROVIDED WITH ACI HOOKS AROUND VERTICAL BARS.
- D) JOINT REINFORCING, AS SPECIFIED, SHALL BE PROVIDED IN ADDITION TO HORIZONTAL REINFORCING CALLED OUT IN (A) THROUGH (C) ABOVE.

4.6 REINFORCING SHALL BE LAPPED A MINIMUM 48 BAR DIAMETERS.

4.7 PROVIDE (3) VERTICAL BARS AT EACH BUILDING CORNER.

5.0 GENERAL:

5.1 WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ONLY APPLY TO LIKE OR SIMILAR CONDITIONS.

AFF	ABOVE FINISHED FLOOR CONSTRUCTION	JT.	JOINT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	K	KIP (KILO POUND)
APPROX.	APPROXIMATE	KSF	KIPS PER SQUARE FOOT
ARCH.	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
@	AT	LLV	LONG LEG VERTICAL
AHU	AIR HANDLING UNIT	MAX.	MAXIMUM
AWS	AMERICAN WELDING SOCIETY	MECH.	MECHANICAL
BFF	BELOW FINISHED FLOOR	MIN.	MINIMUM
BOT. OR B	BOTTOM OR BOTTOM MOST	NO. OR #	NUMBER
CJ OR CONST. JT.	CONSTRUCTION JOINT	O.C.	ON CENTER
☉	CENTERLINE	⌒	PLATE
C.G.	CENTER OF GRAVITY		
CLR.	CLEAR		
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
COL.	COLUMN	PSI	POUNDS PER SQUARE INCH
CONC.	CONCRETE	REQ'D	REQUIRED
CONT.	CONTINUOUS	S _P	POSITIVE SECTION MODULUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	S _N	NEGATIVE SECTION MODULUS
DIA.	DIAMETER	SCH	SCHEDULE
DWG.	DRAWING	SJ	SAW JOINT
EL.	ELEVATION	STIFF.	STIFFENER
EQ.	EQUALLY	t	THICKNESS
E.S.	EACH SIDE	T.O.C.	TOP OF COLUMN
EXP.	EXPANSION	T.O.S.	TOP OF STRUCTURE
FD	FLOOR DRAIN	TYP.	TYPICAL
FIN.	FINISHED, FINISH		
F.F.	FINISHED FLOOR	U.N.O.	UNLESS OTHERWISE NOTED
GR	GALVANIZED STEEL GRATING	W/	WITH
HSS	HOLLOW STEEL SECTION	WWF	WELDED WIRE FABRIC
I _P	POSITIVE MOMENT OF INERTIA	W.P.	WORKING POINT
I _N	NEGATIVE MOMENT OF INERTIA		

LEGEND

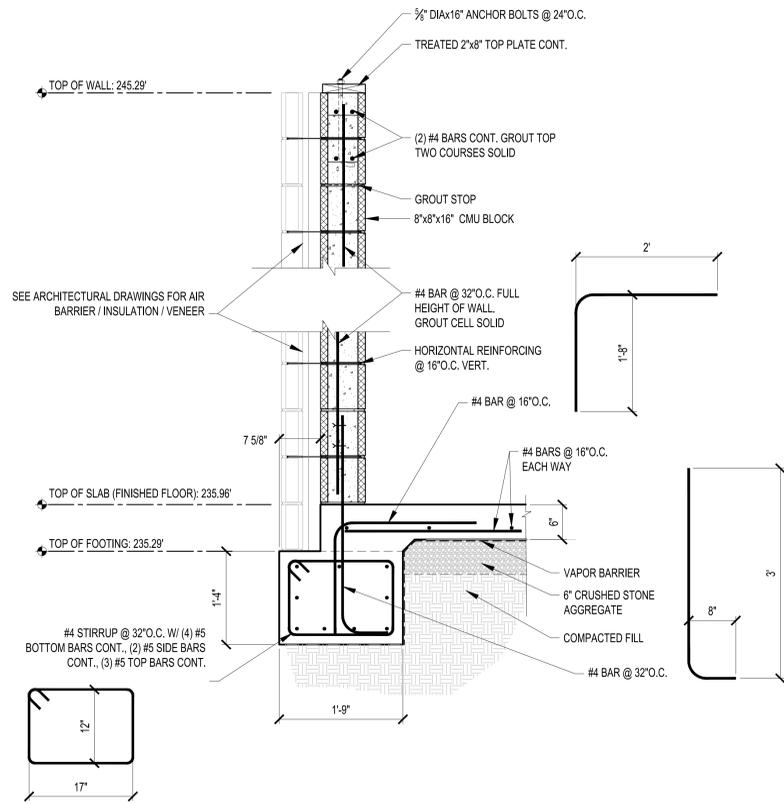
(±)	PLUS OR MINUS
-----	CENTER LINE
⊙ 00'	FINISHED ELEVATION
④	CONSTRUCTION NOTE
▭ -1 1/2'	DEPRESSED SLAB



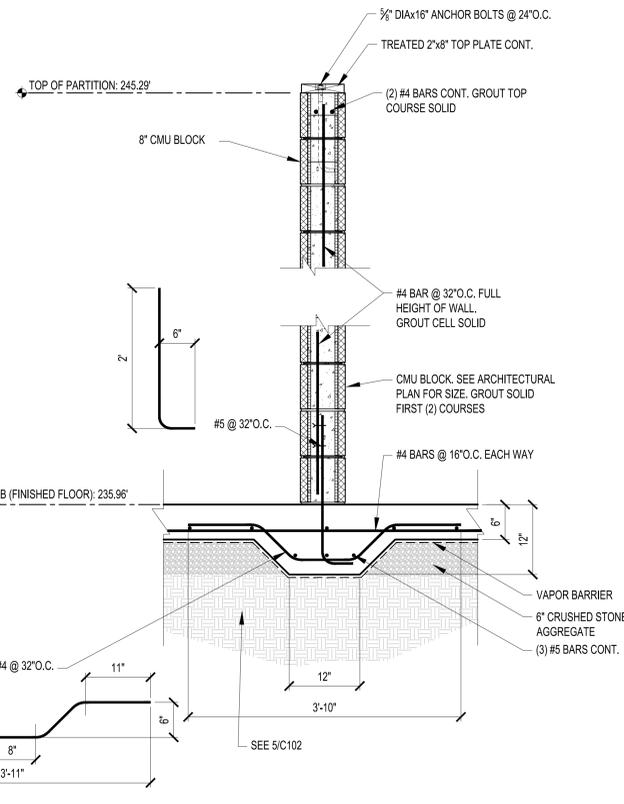
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BATTALION HQ BUILDING TT S233
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John P. Adams FIRM P.E.
ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI - (662) 455-4943

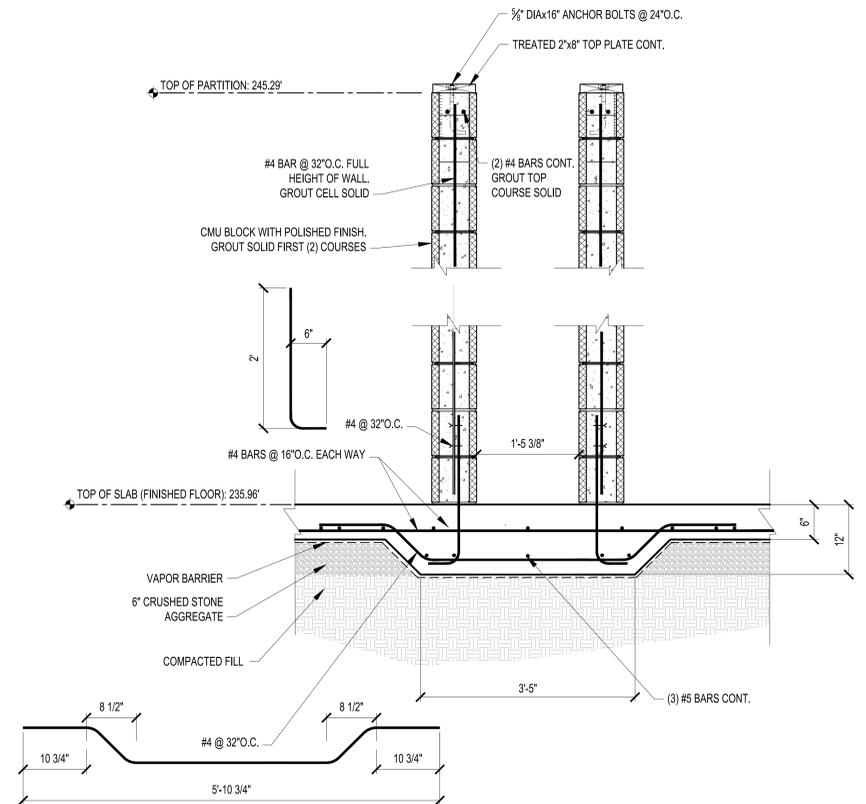
STRUCTURAL GENERAL NOTES AND LEGEND					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	S000



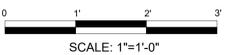
1
PERIMETER LOAD BEARING WALL
FOOTING DETAIL
SCALE: 1" = 1'-0"



2
NON-LOAD BEARING CMU PARTITION
FOOTING DETAIL
SCALE: 1" = 1'-0"



3
NON-LOAD BEARING CMU CHASE WALL PARTITION
FOOTING DETAIL
SCALE: 1" = 1'-0"



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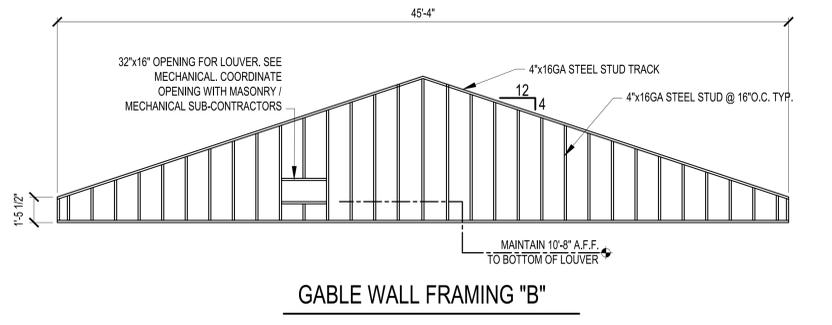
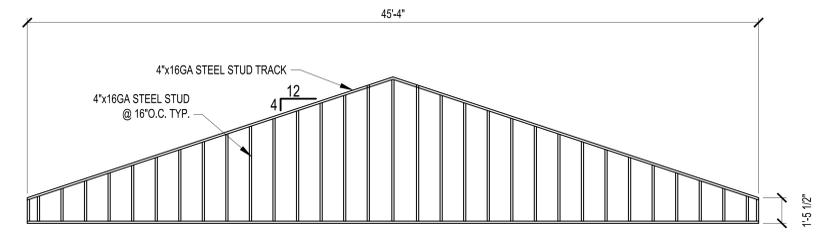
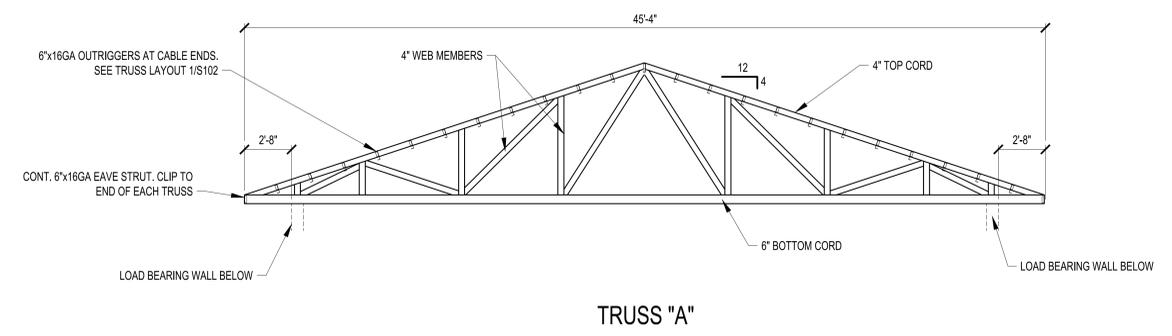
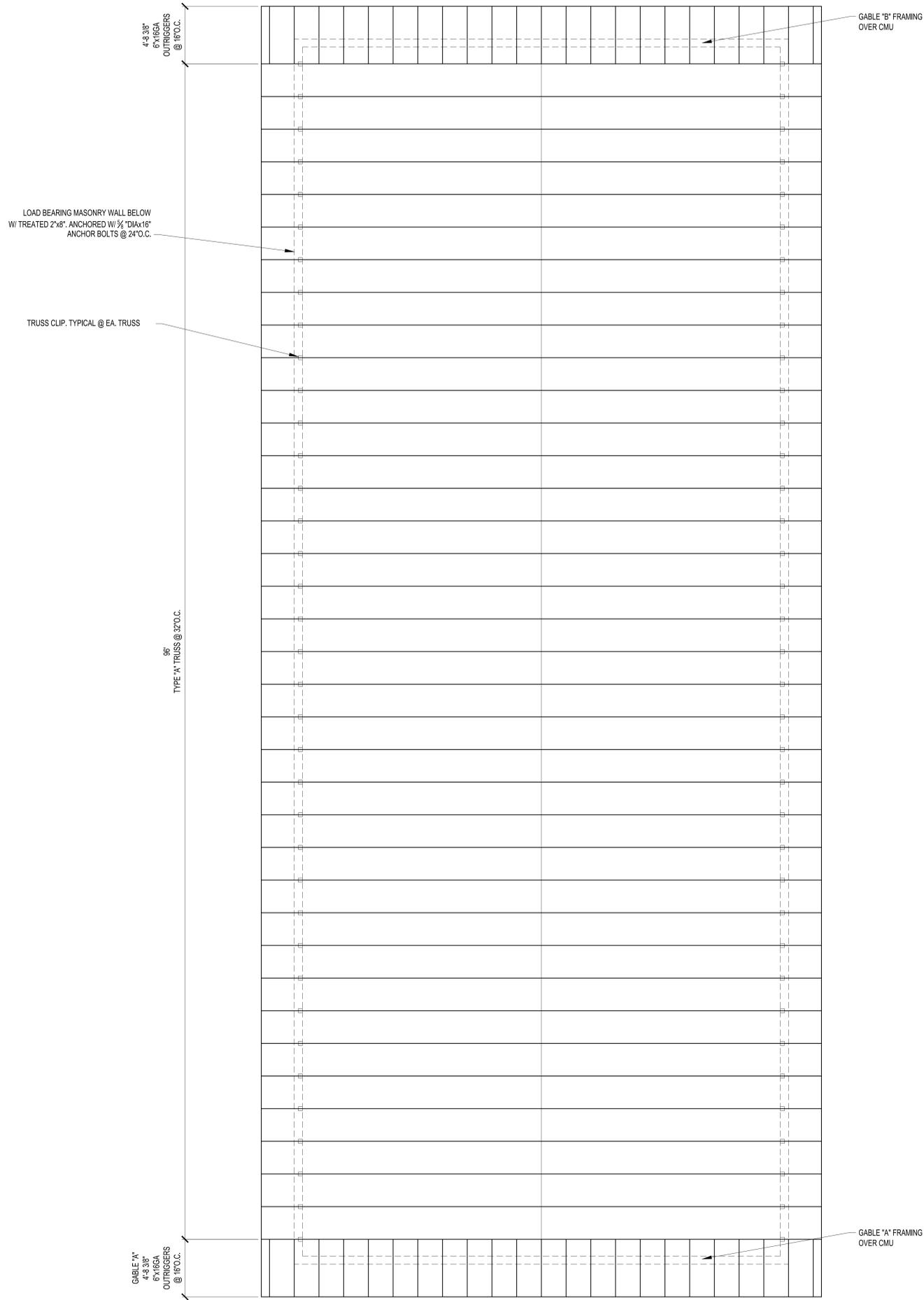
FOUNDATION DETAILS

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
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Z:\2024\Jobs\2724-A MINE Bldg\10 - Comp\McCoin\07 Working Folder\Sheet\ST102.dwg
 Date: 11/20/24 - 10:29am



1 TRUSS LAYOUT
 S102 SCALE: 1/4" = 1'-0"



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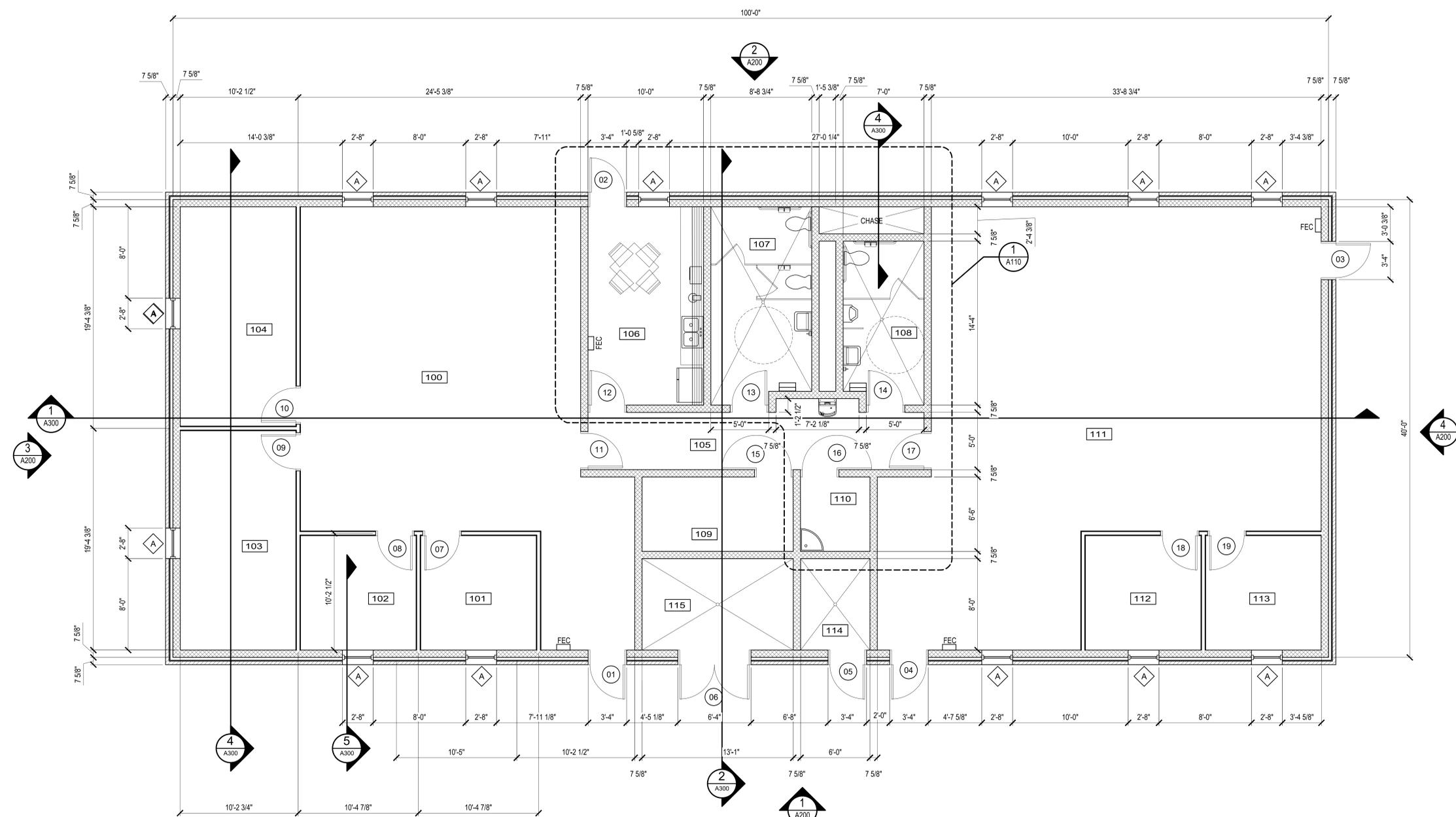
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ROOF TRUSS PLAN AND ELEVATIONS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	S102

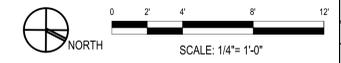
ROOM LEGEND	
ROOM NO	ROOM NAME
100	OPEN OFFICE
101	XO OFFICE
102	S3 OFFICE
103	CSM OFFICE
104	BC COMMANDER OFFICE
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
109	ELECT / TELECOM
110	JANITORIAL
111	MULTIPURPOSE TRAINING ROOM
112	S4 OFFICE
113	S1 OFFICE
114	FIRE RISER ROOM
115	MECHANICAL ROOM

- LEGEND**
- 111 ROOM TAG. SEE ROOM FINISH SCHEDULE SHEET A500.
 - 04 DOOR TAG. SEE DOOR SCHEDULE SHEET A500.
 - A WINDOW TAG. SEE WINDOW SCHEDULE SHEET A500.
 - FEC FIRE EXTINGUISHER CABINET AS SPECIFIED.

- GENERAL NOTES**
1. THE EXTERIOR WALL IS COMPRISED OF 8" CMU WITH 2" OF SPRAY APPLIED INSULATION, 1" AIR GAP AND 4" INTEGRALLY COLORED CMU VENEER.
 2. THE ROOF SYSTEM SHALL BE COMPROMISED OF STANDING SEAM METAL ROOF OVER ICE AND WATER SHIELD WITH A 5/8" TONGUE AND GROOVE PLYWOOD DECK.
 3. THE ROOF STRUCTURE SHALL BE LIGHT GAUGE STRUCTURAL METAL TRUSSES.
 4. OFFICE 101, 102, AND 103 PARTITIONS ARE COMPRISED OF 3 1/2" METAL STUDS WITH 5/8" HIGH IMPACT GYPSUM BOARD ON EACH SIDE AND 3 1/2" SOUND BATT INSULATION.
 5. THE CORE AREA OF THE FACILITY IS COMPRISED OF 8" INTEGRALLY COLORED CMU BLOCK.
 6. WET AREAS SHALL HAVE SOLID SURFACE PANEL WAINSCOT TO 4' ABOVE FINISHED FLOOR.
 7. THE CEILING SHALL BE GYPSUM BOARD CEILING AND CEILING HEIGHT WILL BE 9' ABOVE FINISHED FLOOR.
 8. R-28 THERMAL INSULATION SHALL BE ABOVE CEILING.
 9. THE FLOOR FINISH SHALL BE SEALED CONCRETE.
 10. DOORS SHALL BE THERMAL INSULATED HOLLOW METAL FRAMES AND DOORS AT EXTERIOR WALL. INTERIOR DOORS SHALL BE SOLID CORE WOOD IN METAL FRAMES.
 11. EXTERIOR WINDOWS SHALL BE THERMALLY BROKE 3' x 3' FIXED ALUMINUM WITH INSULATED GLAZING AND 4" PRECAST CONCRETE SILLS.
 12. INTERIOR WINDOWS SHALL BE GLAZED HOLLOW METAL FRAME WITH TEMPERED 1/4" GLAZING.
 13. BREAK ROOM CASEWORK SHALL BE LAMINATE CLAD PLYWOOD WITH SOLID SURFACE COUNTERS.
 14. THE TOILET PARTITIONS WILL BE FLOOR MOUNTED SOLID PHENOLIC PARTITIONS.
 15. ALL INTERIOR SURFACES SHALL BE PAINTED.



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

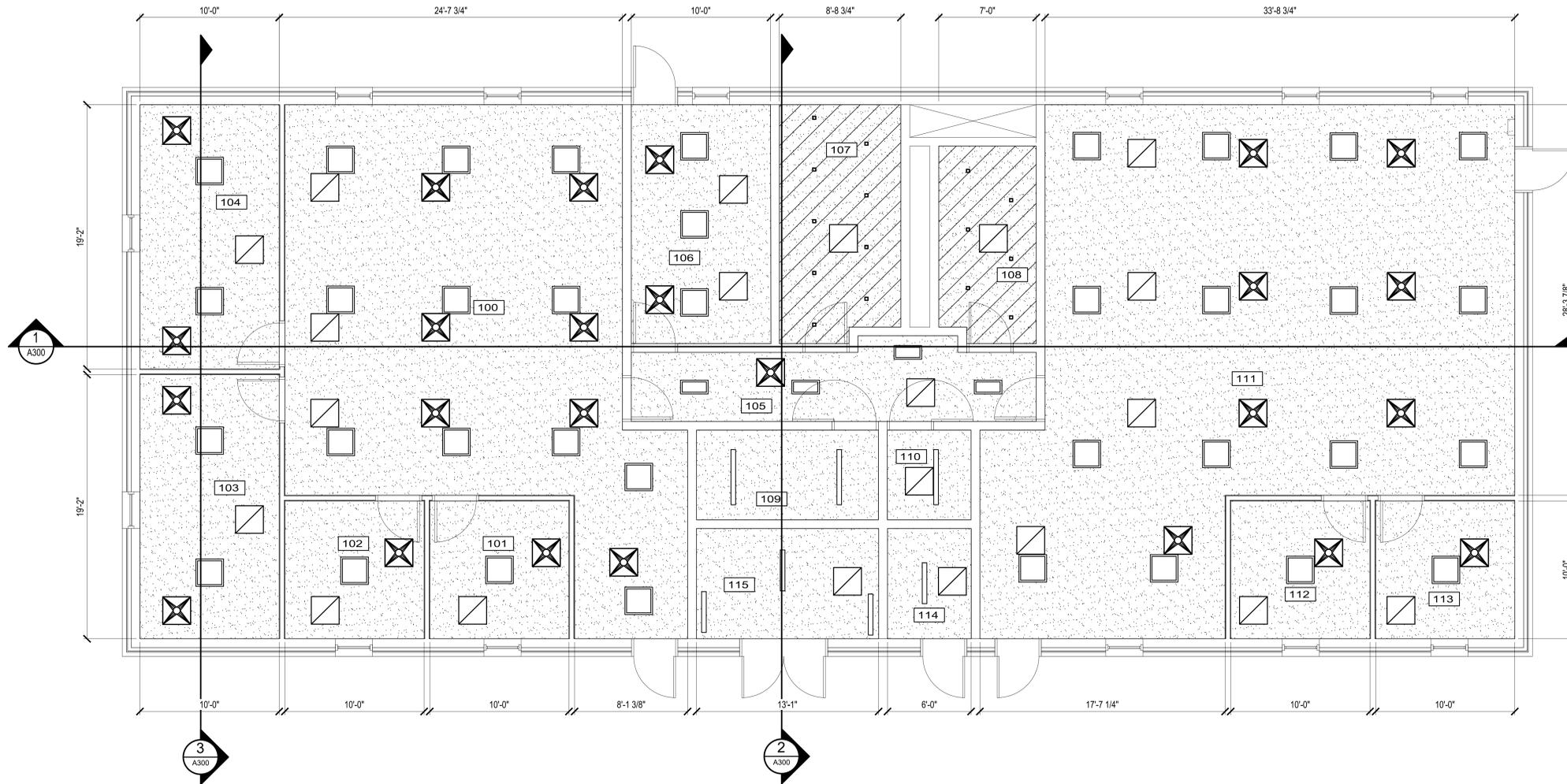


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FLOOR PLAN					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A100

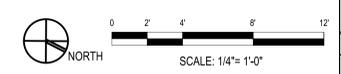




ROOM LEGEND	
ROOM NO	ROOM NAME
100	OPEN OFFICE
101	XO OFFICE
102	S3 OFFICE
103	CSM OFFICE
104	BC COMMANDER OFFICE
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
109	ELECT / TELECOM
110	JANITORIAL
111	MULTIPURPOSE TRAINING ROOM
112	S4 OFFICE
113	S1 OFFICE
114	FIRE RISER ROOM
115	MECHANICAL ROOM

- LEGEND**
-  GYPSUM BOARD CEILING ANCHORED TO 7/8" HAT CHANNELS AT 16" O.C. ON THE BOTTOM OF THE TRUSSES.
 -  GYPSUM BOARD CEILING ANCHORED TO 6" x 16 GA METAL JOIST @ 16" O.C. CEILING HEIGHT AS SCHEDULED.
 -  LIGHTING FIXTURES SEE ELECTRICAL DRAWINGS
 -  HVAC SUPPLY AND RETURN DIFFUSERS SEE MECHANICAL DRAWINGS
 -  24" x 24" ATTIC ACCESS PANEL AS SPECIFIED

1 REFLECTED CEILING PLAN
 A101 SCALE: 1/4" = 1'-0"



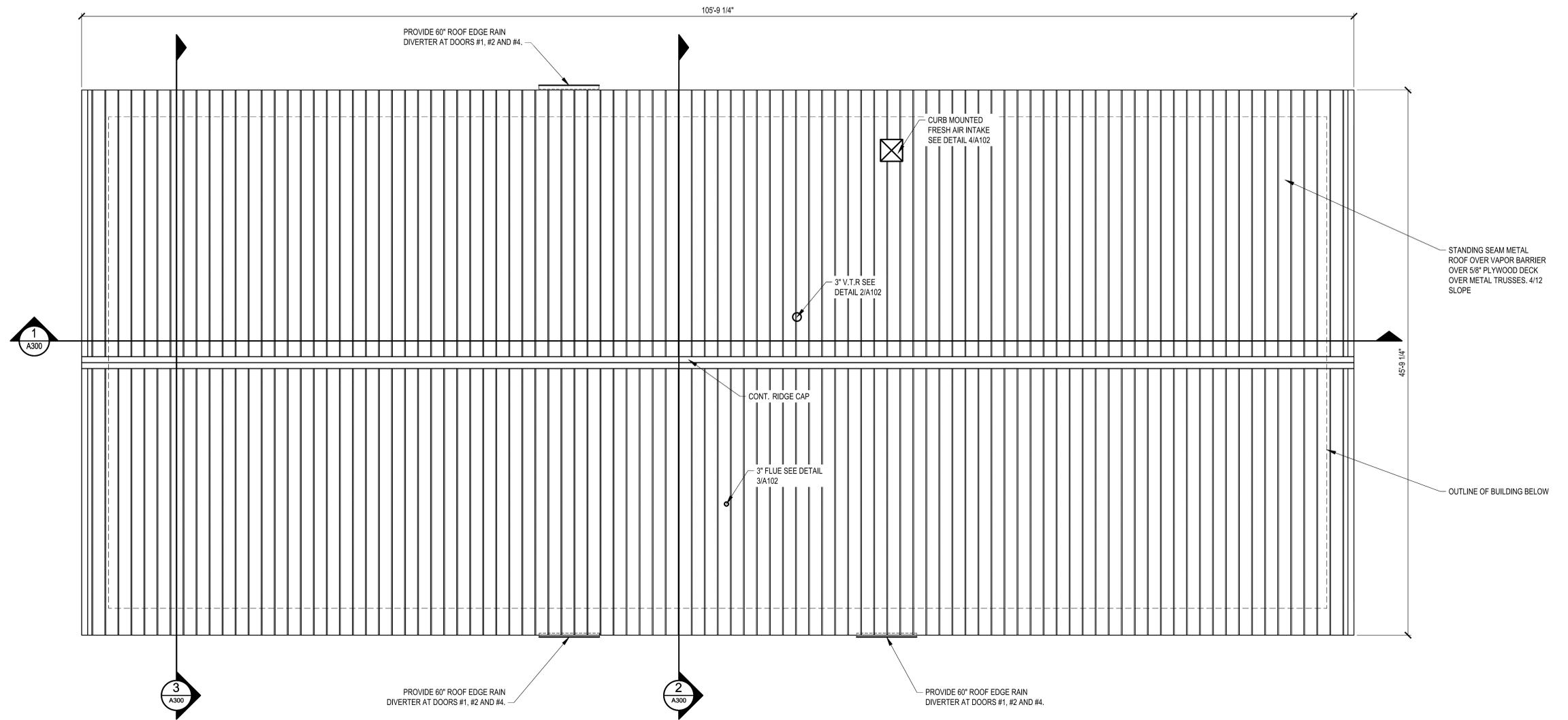


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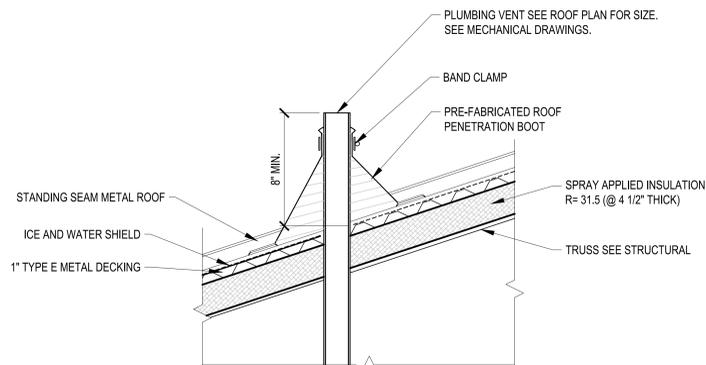
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REFLECTED CEILING PLAN

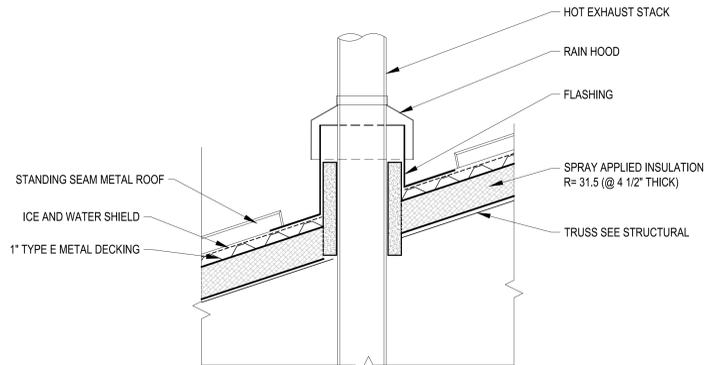
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A101



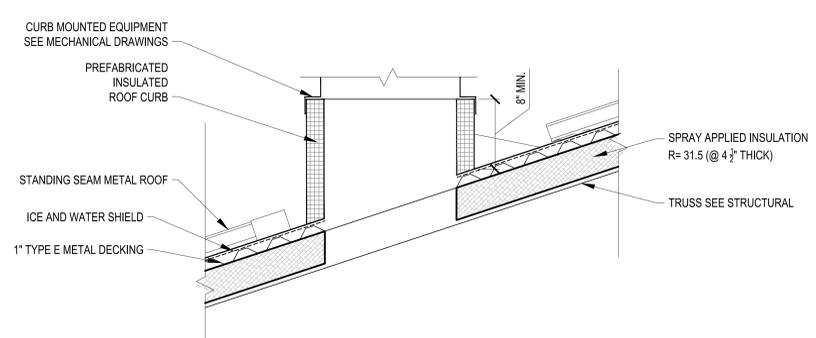
1 ROOF PLAN
SCALE: 1/4" = 1'-0"



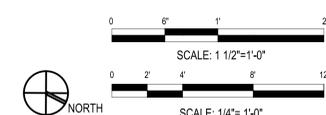
2 PLUMBING VENT DETAIL
SCALE: 1-1/2" = 1'-0"



3 FLUE DETAIL
SCALE: 1-1/2" = 1'-0"



3 CURB DETAIL
SCALE: 1-1/2" = 1'-0"

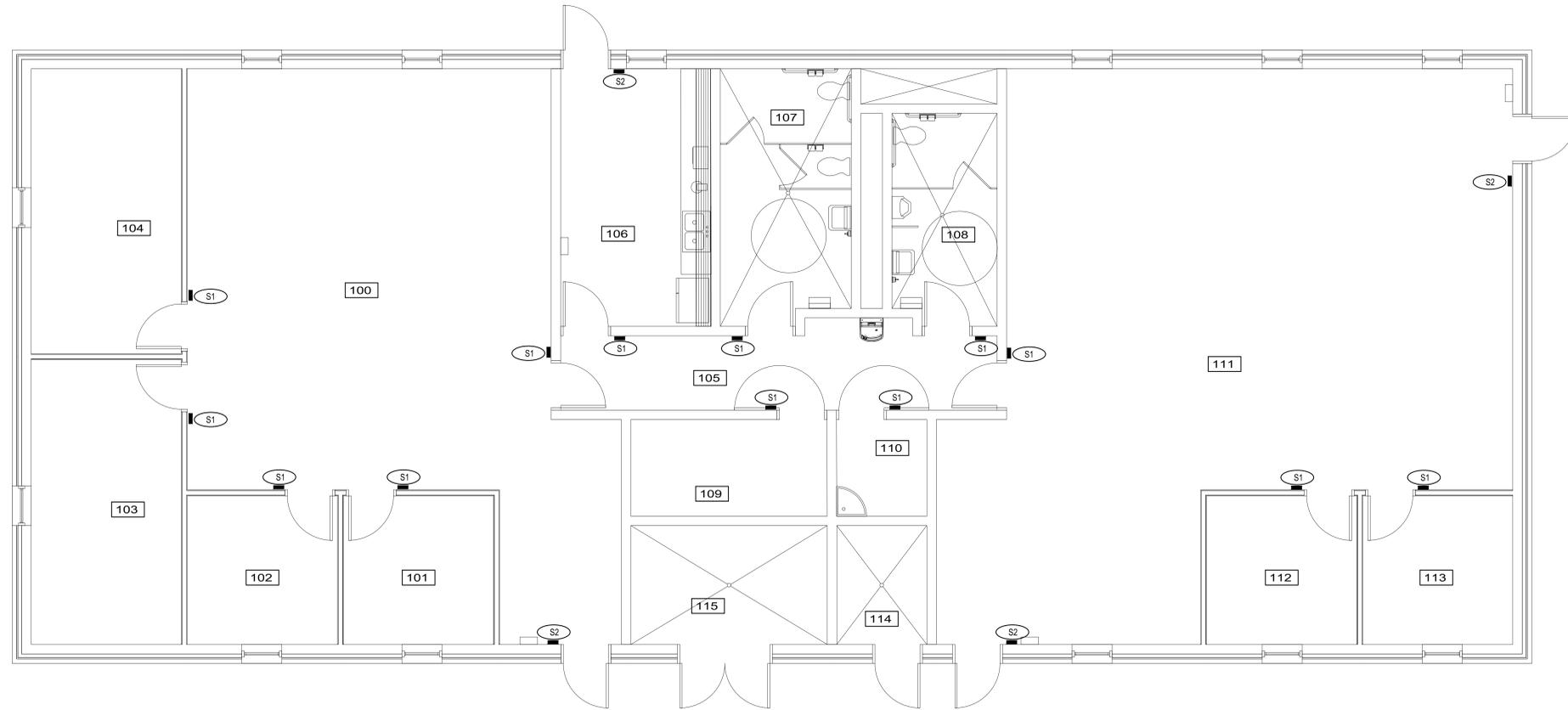


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ROOF PLAN

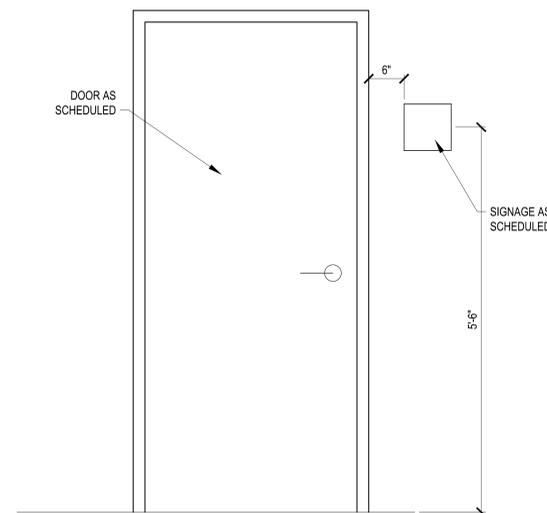
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A102



ROOM LEGEND	
ROOM NO	ROOM NAME
100	OPEN OFFICE
101	XO OFFICE
102	S3 OFFICE
103	CSM OFFICE
104	BC COMMANDER OFFICE
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
109	ELECT / TELECOM
110	JANITORIAL
111	MULTIPURPOSE TRAINING ROOM
112	S4 OFFICE
113	S1 OFFICE
114	FIRE RISER ROOM
115	MECHANICAL ROOM

SIGN SCHEDULE			
SIGN #	SIGN NAME	MATERIAL	MESSAGE
S1	ROOM IDENTIFICATION	AS SPECIFIED	SEE SIGN TYPE
S2	NO SMOKING	AS SPECIFIED	NO SMOKING WITH SYMBOLOGY
S3	EXTERIOR BUILDING NUMBER	AS SPECIFIED	BUILDING NUMBER

1 SIGNAGE PLAN
A103 SCALE: 1/4" = 1'-0"



2 INTERIOR SIGNAGE MOUNTING HEIGHT DETAIL
A103 SCALE: N.T.S.

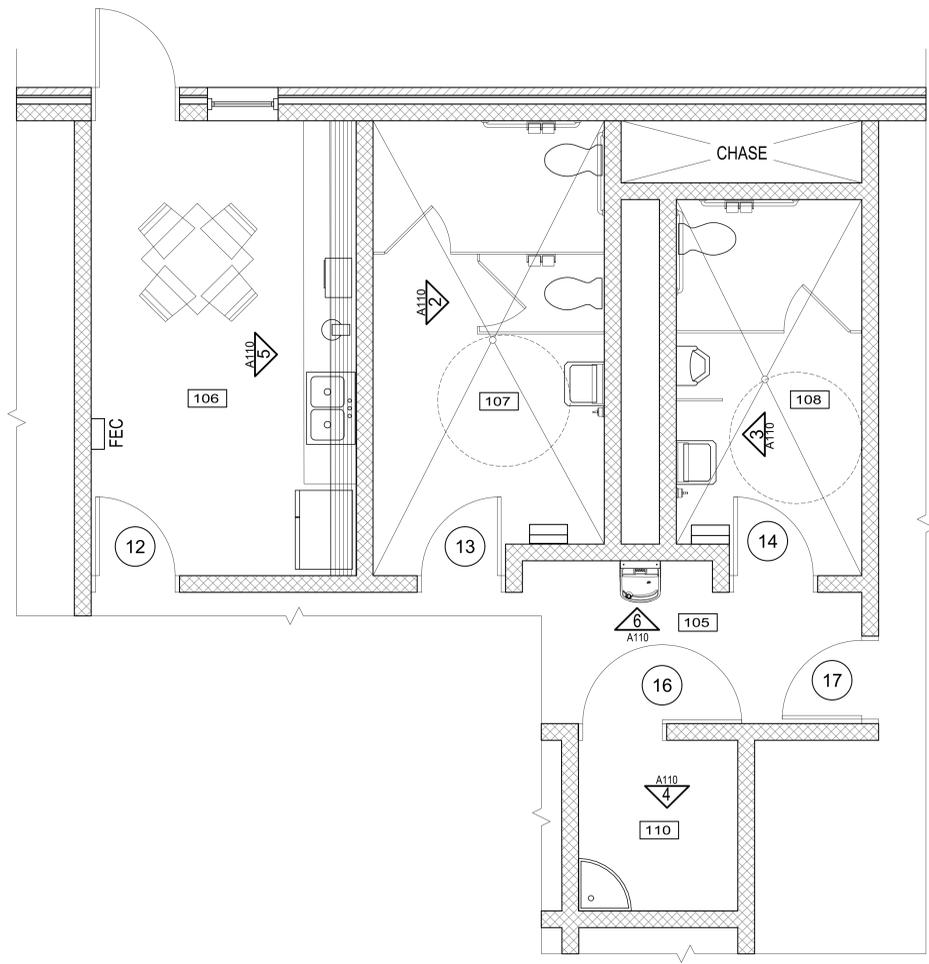




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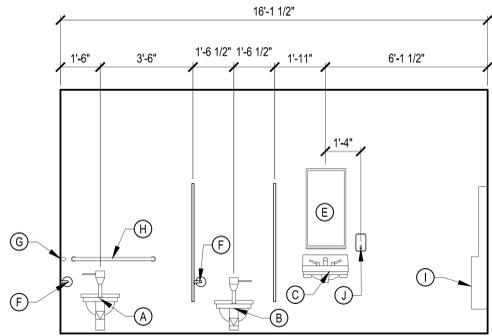
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SIGNAGE PLAN					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A103

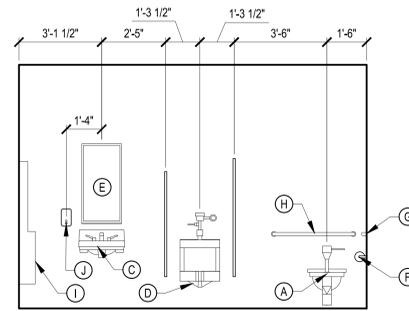


1 ENLARGED FLOOR PLAN
A110 SCALE: 3/8" = 1'-0"

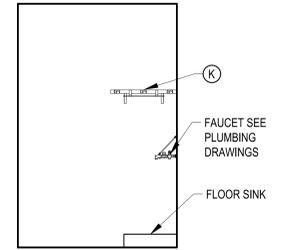
ROOM LEGEND	
ROOM NO	ROOM NAME
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
110	JANITORIAL



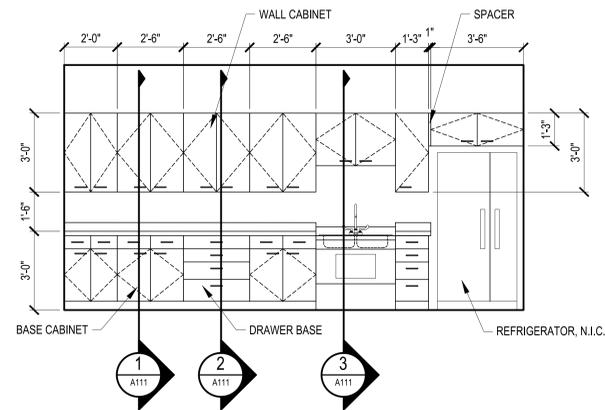
2 INTERIOR ELEVATION
A110 SCALE: 3/8" = 1'-0"



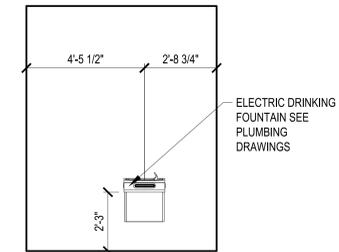
3 INTERIOR ELEVATION
A110 SCALE: 3/8" = 1'-0"



4 INTERIOR ELEVATION
A110 SCALE: 3/8" = 1'-0"

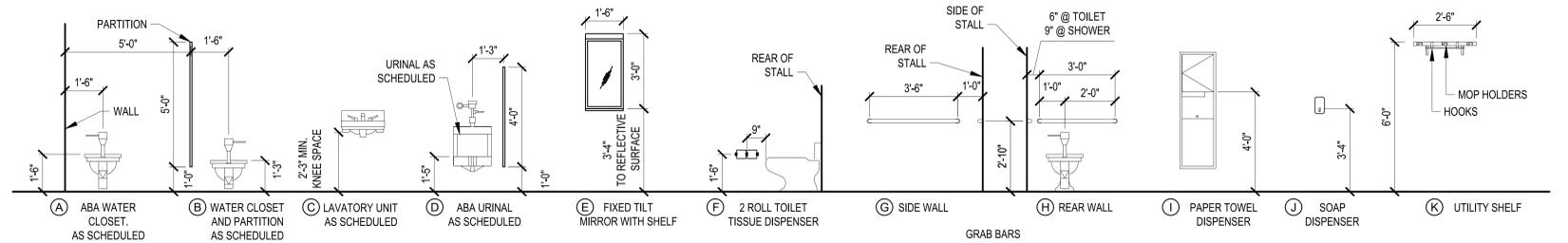


5 INTERIOR ELEVATION
A110 SCALE: 3/8" = 1'-0"



6 INTERIOR ELEVATION
A110 SCALE: 3/8" = 1'-0"

TOILET ACCESSORY SCHEDULE:

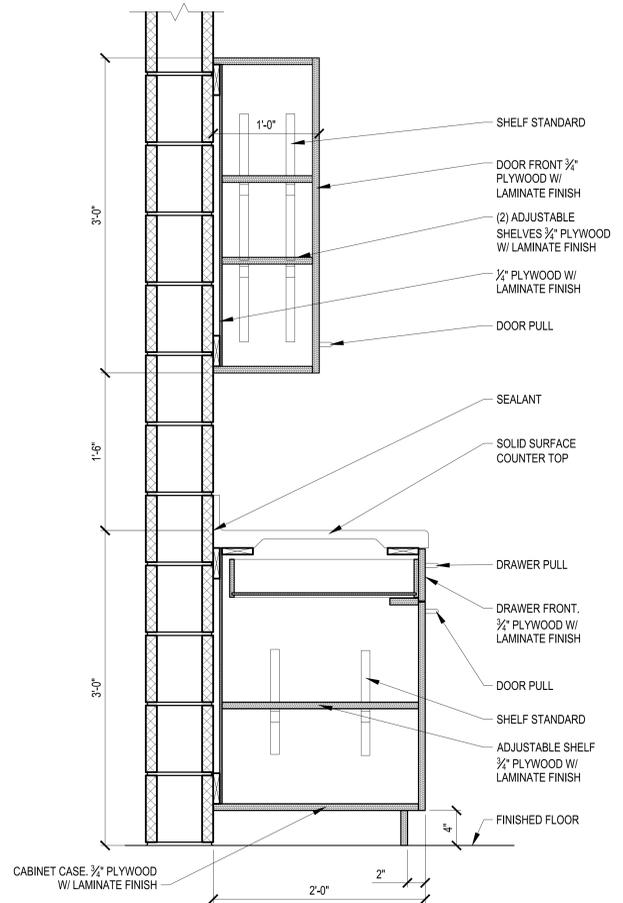


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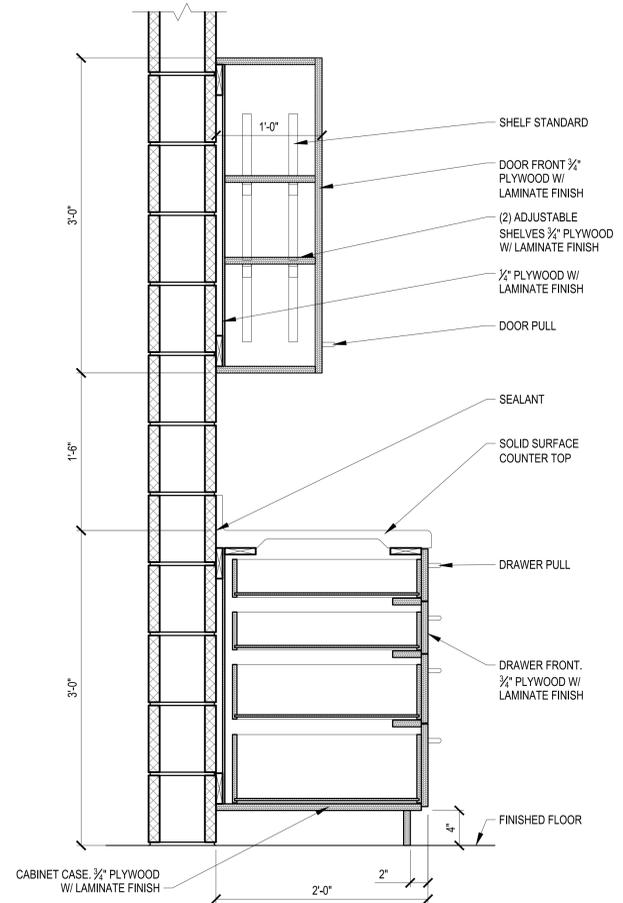
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ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A110

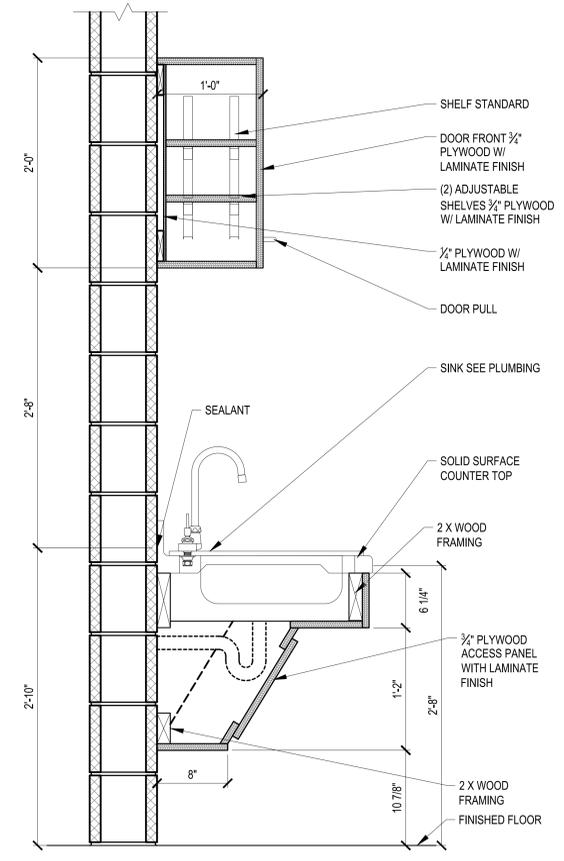




1 CASEWORK SECTION
A111 SCALE: 1-1/2" = 1'-0"

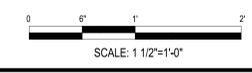


2 CASEWORK SECTION
A111 SCALE: 1-1/2" = 1'-0"



3 CASEWORK SECTION
A111 SCALE: 1-1/2" = 1'-0"

GENERAL NOTE:
SEE SHEET A500 FOR FINISH COLOR LEGEND



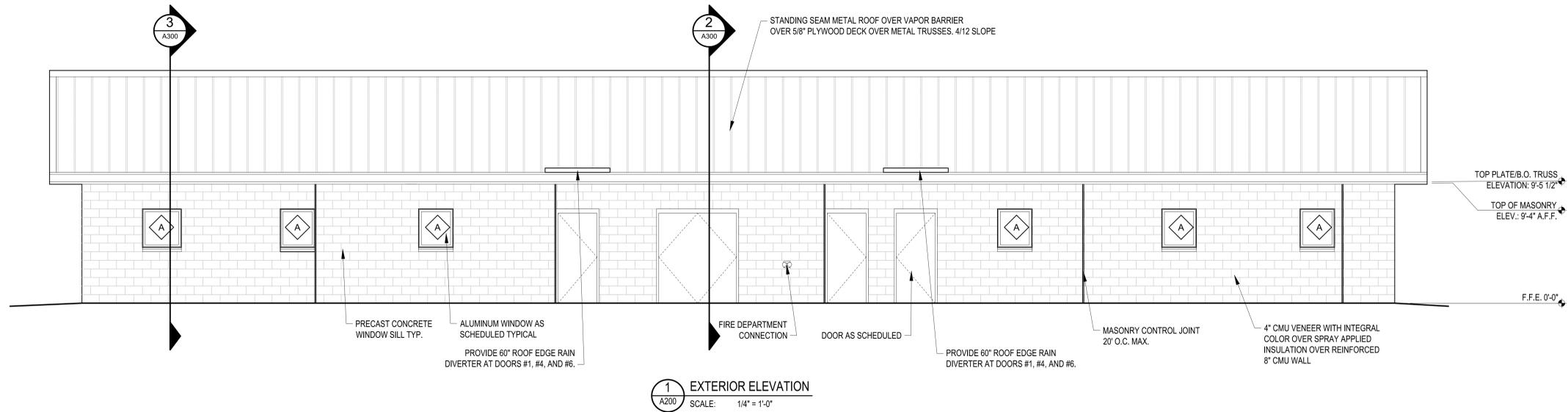
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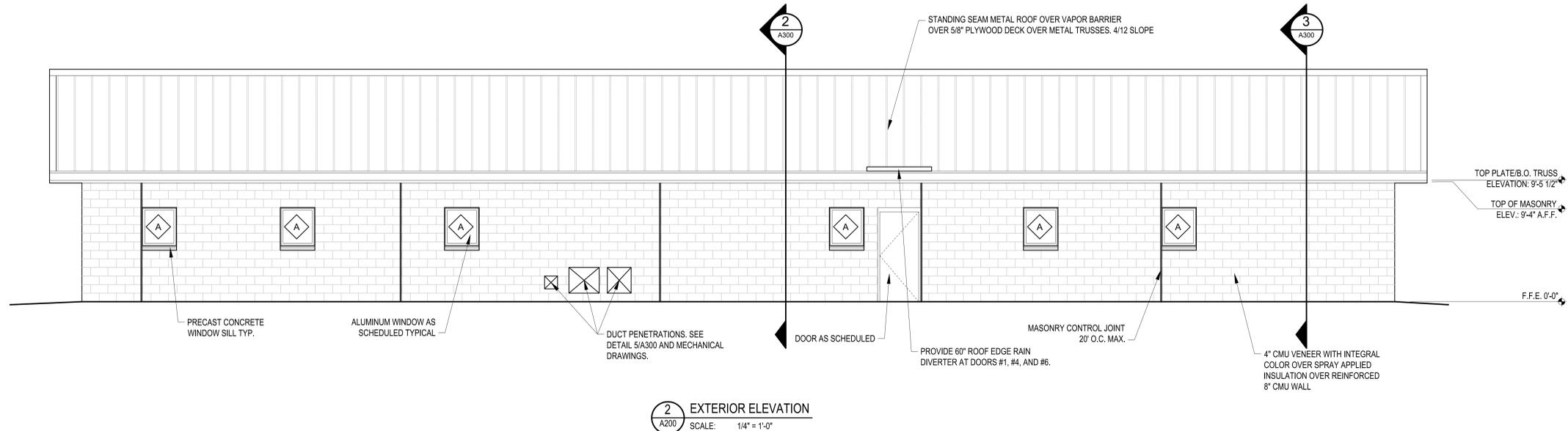
CASEWORK SECTIONS

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A111

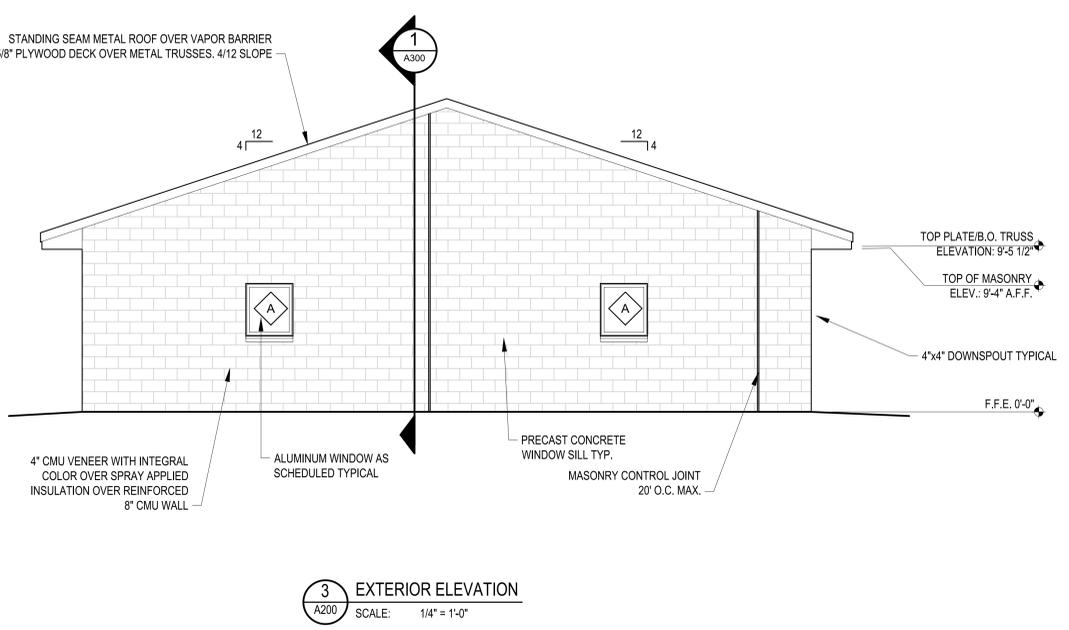




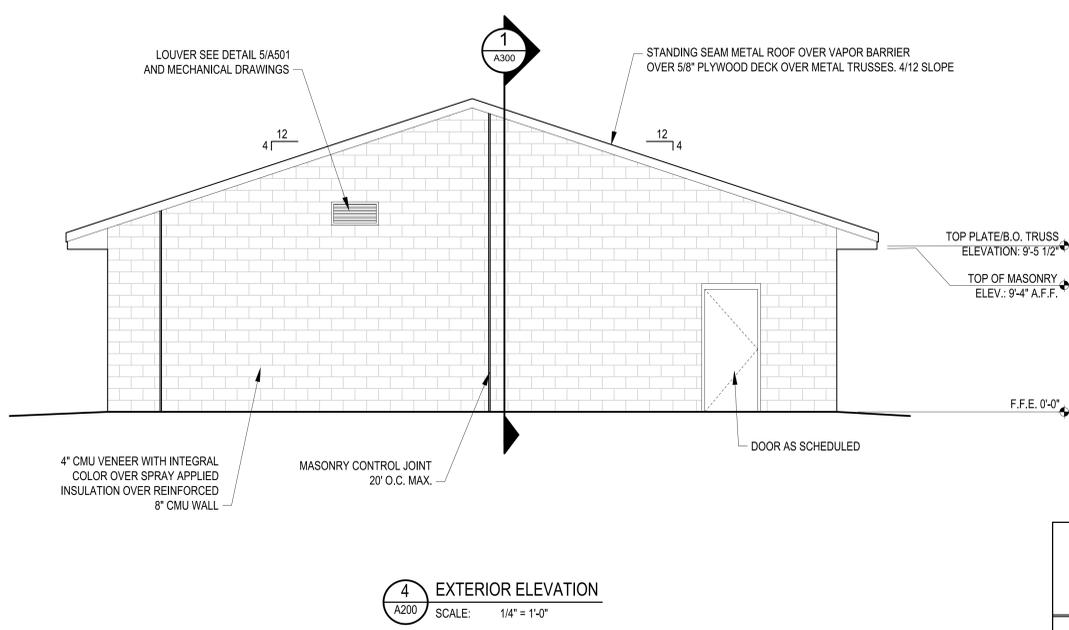
1 EXTERIOR ELEVATION
A200 SCALE: 1/4" = 1'-0"



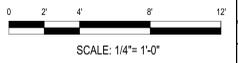
2 EXTERIOR ELEVATION
A200 SCALE: 1/4" = 1'-0"



3 EXTERIOR ELEVATION
A200 SCALE: 1/4" = 1'-0"



4 EXTERIOR ELEVATION
A200 SCALE: 1/4" = 1'-0"



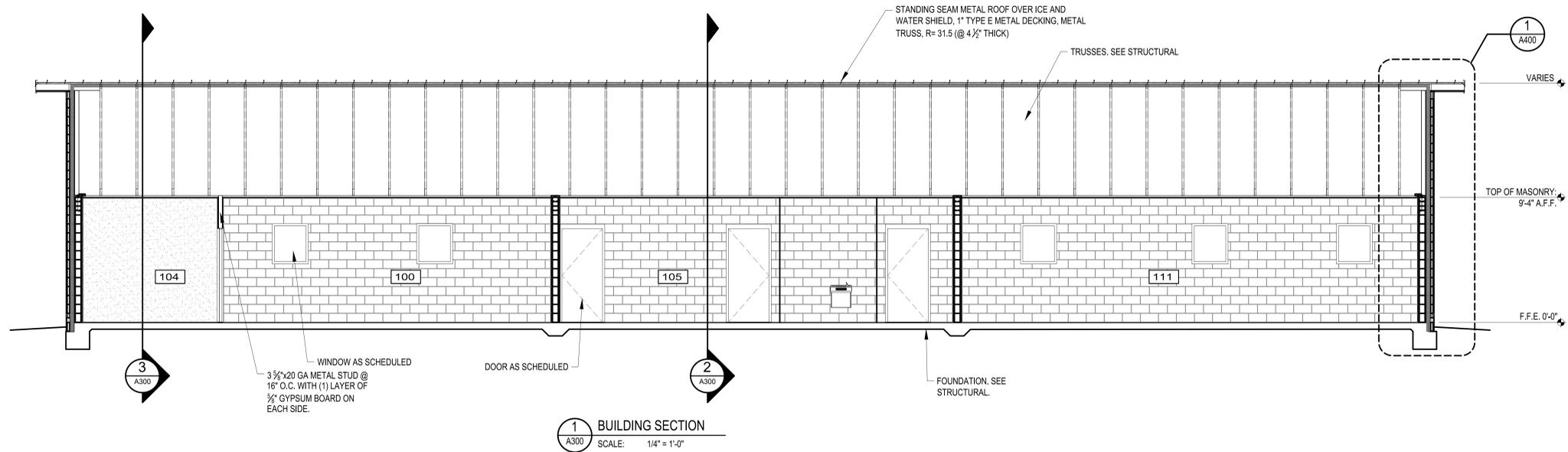
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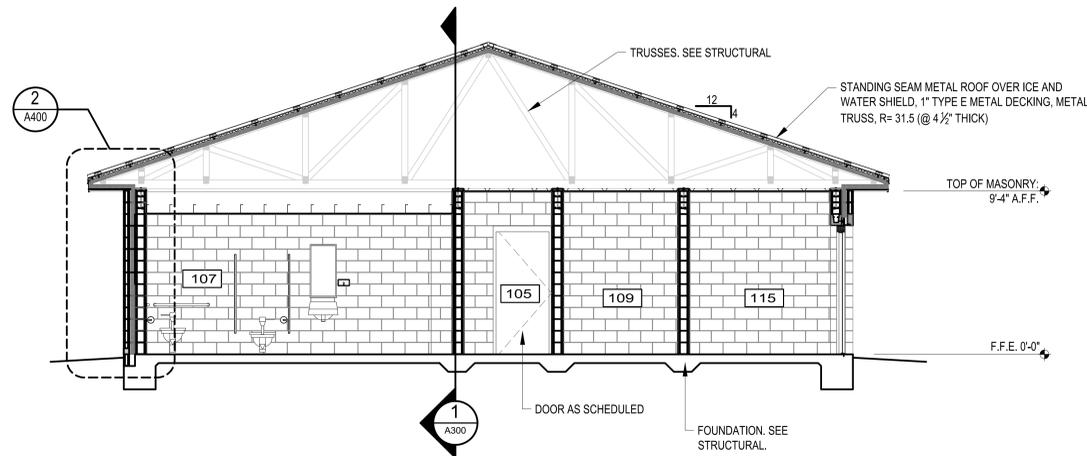
EXTERIOR ELEVATIONS

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A200

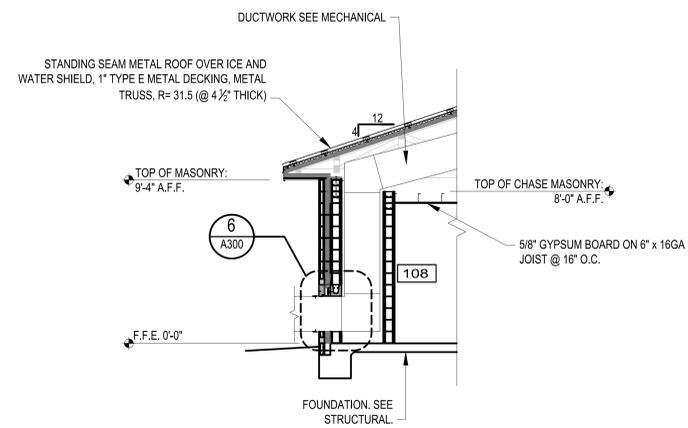




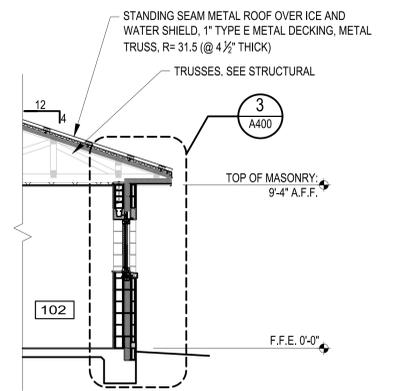
1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



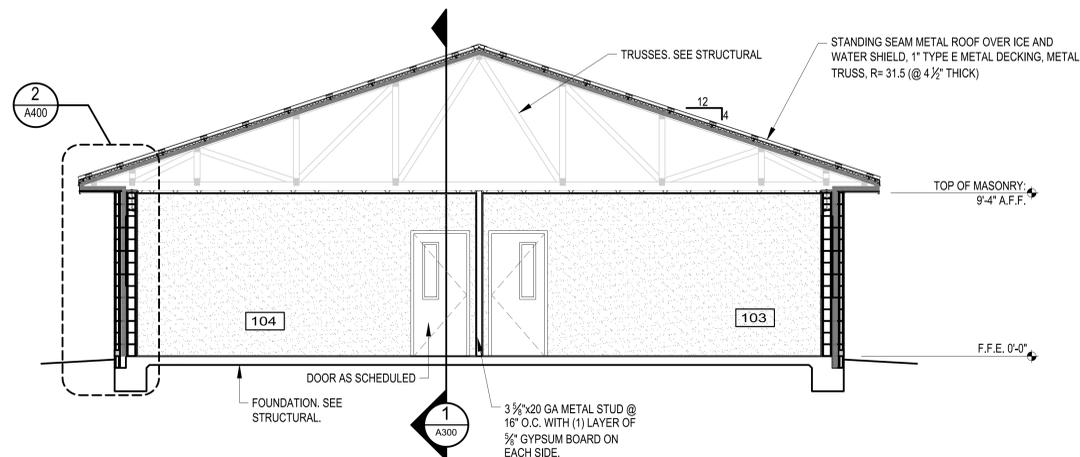
2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



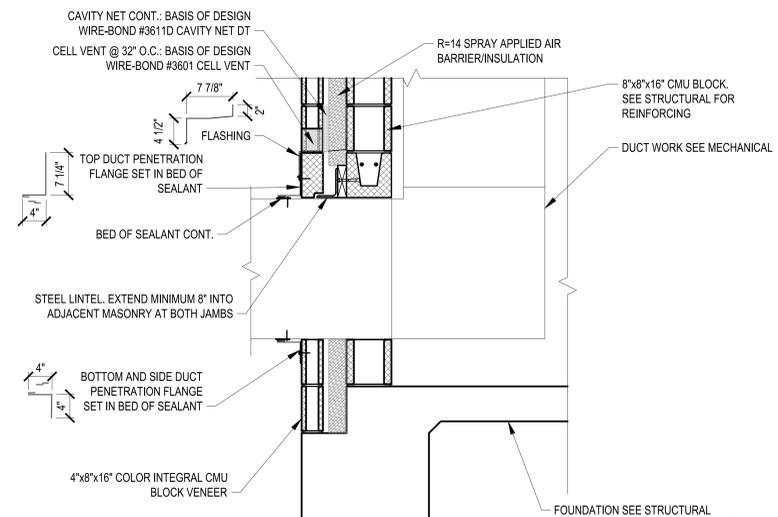
4 PARTIAL BUILDING SECTION
SCALE: 1/4" = 1'-0"



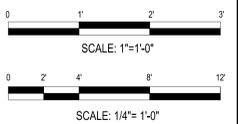
5 PARTIAL BUILDING SECTION
SCALE: 1/4" = 1'-0"



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



6 DUCT PENETRATION DETAIL
SCALE: 1" = 1'-0"

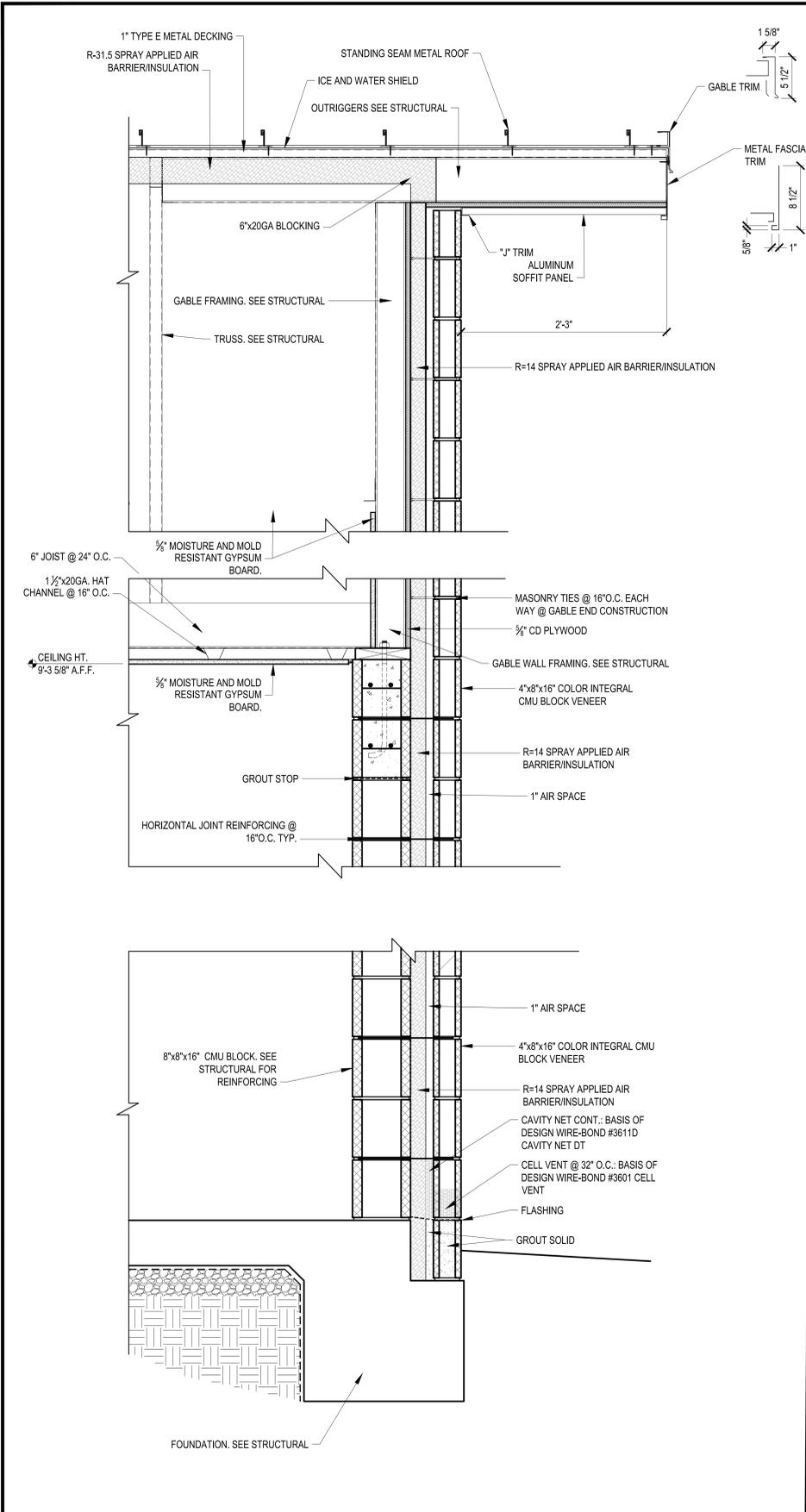


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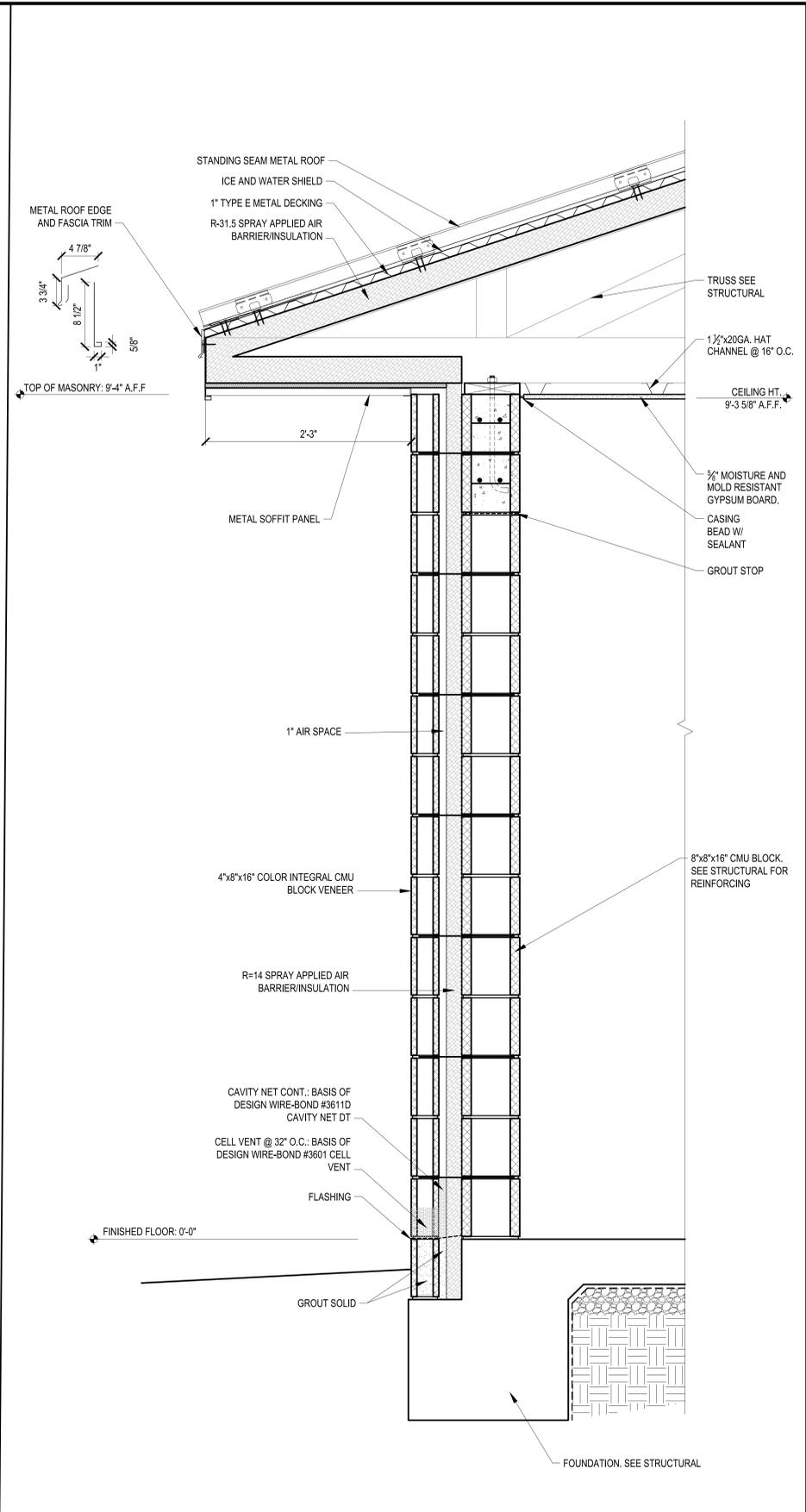
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BUILDING SECTIONS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A300	

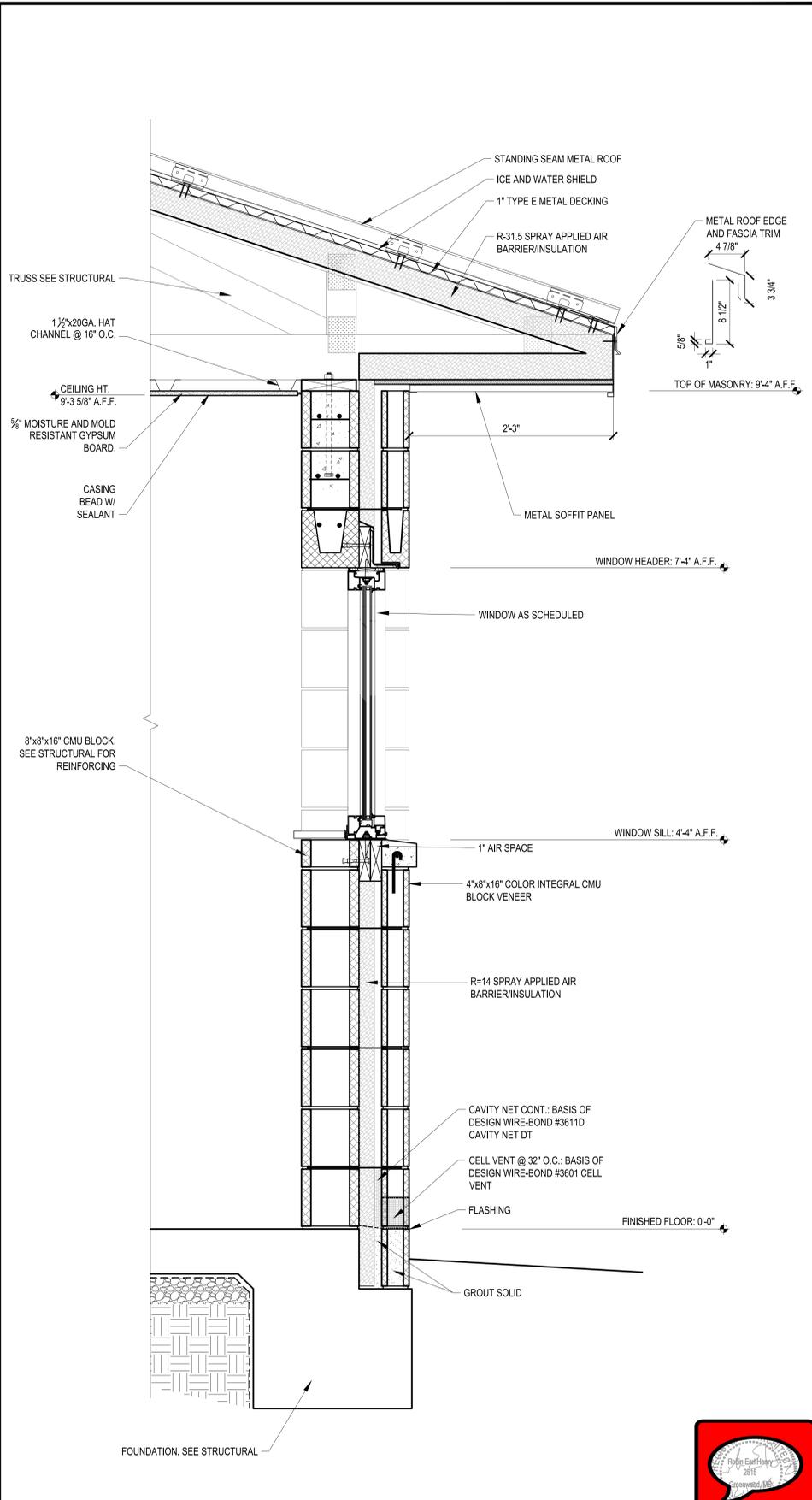




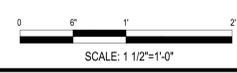
1 WALL SECTION
A400 SCALE: 1-1/2" = 1'-0"



2 WALL SECTION
A400 SCALE: 1-1/2" = 1'-0"



3 WALL SECTION
A400 SCALE: 1-1/2" = 1'-0"



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WALL SECTIONS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A400



FINISH SCHEDULE														
ROOM NO	ROOM NAME	FLOOR	BASE	WALLS								CEILING		NOTES
				EAST WALL		WEST WALL		NORTH WALL		SOUTH WALL		MATL	HEIGHT	
100	OPEN OFFICE	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP.BD.	9'-3 5/8"	--
101	XO OFFICE	CONC	RB	CMU	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	9'-3 5/8"	--
102	S3 OFFICE	CONC	RB	CMU	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	9'-3 5/8"	--
103	CSM OFFICE	CONC	RB	GYP. BD.	PAINT	GYP. BD.	PAINT	GYP. BD.	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--
104	BC COMMANDER OFFICE	CONC	RB	GYP.BD.	PAINT	CMU	PAINT	GYP.BD.	PAINT	CMU	PAINT	GYP.BD.	9'-3 5/8"	--
105	CORRIDOR	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP.BD.	9'-3 5/8"	--
106	BREAK ROOM	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP.BD.	9'-3 5/8"	--
107	FEMALE TOILET	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP.BD.	8'-0"	--
108	MALE TOILET	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP.BD.	8'-0"	--
109	ELECT / TELECOM	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--
110	JANITORIAL	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--
111	MULTIPURPOSE TRAINING ROOM	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--
112	S4 OFFICE	CONC	RB	CMU	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP. BD.	9'-3 5/8"	--
113	S1 OFFICE	CONC	RB	CMU	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP.BD.	PAINT	GYP. BD.	9'-3 5/8"	--
114	FIRE RISER ROOM	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--
115	MECHANICAL ROOM	CONC	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	GYP. BD.	9'-3 5/8"	--

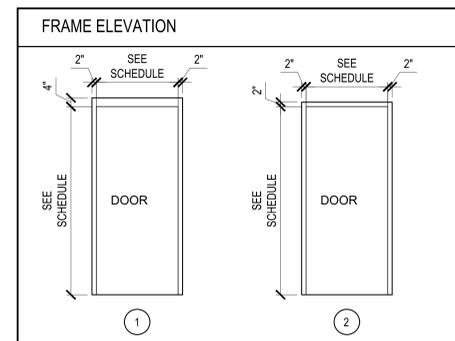
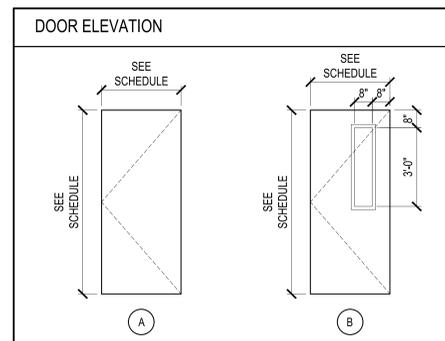
FINISH SCHEDULE ABBREVIATIONS:

- CONC. - CONCRETE WITH SEALER AS SPECIFIED
- CMU - CONCRETE MASONRY UNIT WITH SEALER.
- GYP. BD. - MOISTURE AND MOLD RESISTANT GYPSUM BOARD.
- RB - RUBBER BASE AS SPECIFIED

FINISH COLOR LEGEND

- INTERIOR WALLS - SHERWIN WILLIAMS #SW7517 RIVERS EDGE SEMI-GLOSS.
- INTERIOR DOOR FRAMES - SHERWIN WILLIAMS #SW1096 SAND STORM SEMI-GLOSS.
- INTERIOR CEILING - #SW7007 CEILING WHITE FLAT.
- EXTERIOR INTEGRAL COLOR CMU BLOCK SHALL MATCH - SHERWIN WILLIAMS #SW7684 CONCORD BUFF SEMI-GLOSS TONED TO ACI AZTEC GOLD. (PAINT CHIP PROVIDED UPON REQUEST).
- EXTERIOR DOORS, DOOR FRAMES, PILASTERS - SHERWIN WILLIAMS #SW7725 YEARLING SEMI-GLOSS.
- SOFFIT AND FASCIA- #SW7006 EXTRA WHITE.
- RUBBER WALL BASE- ROPPE, 700 SERIES, 4" WIDTH, #171 SAND STONE.
- TOILET PARTITION- BOBRICK SIERRA SERIES 1090, #SC01 GOLDEN KHAKI.
- RECEPTACLES/SWITCHES/COVERS- IVORY
- LAMINATE COUNTER TOPS - FORMICA 920-58 ALMOND MATTE FINISH
- SOLID SURFACING - SILK 107 (FORMERLY FOUNTAINHEAD SATIN FS-7-13 AND SURELL SILK 107)

DOOR AND FRAME SCHEDULE										
DOOR #	TYPE	DOOR			MATL	FRAME			HDW SET NO	REMARKS
		WD	HGT	THK		TYPE	MATL	DETAIL		
1	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-1	--
2	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-1	--
3	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-1	--
4	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-1	--
5	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-2	--
6	A	6'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	2/A501	HW-3	--
7	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--
8	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--
9	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--
10	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--
11	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-6	--
12	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-6	--
13	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-7	--
14	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-7	--
15	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-4	--
16	A	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-4	--
17	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	1	HOLLOW METAL	4/A501	HW-6	--
18	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--
19	B	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	2	HOLLOW METAL	3/A501	HW-5	--



WINDOW SCHEDULE					
MARK	SIZE		MATERIAL	DETAIL	NOTES
	WIDTH	HEIGHT			
A	2'-8"	3'-0"	ALUM.	1/A501	--

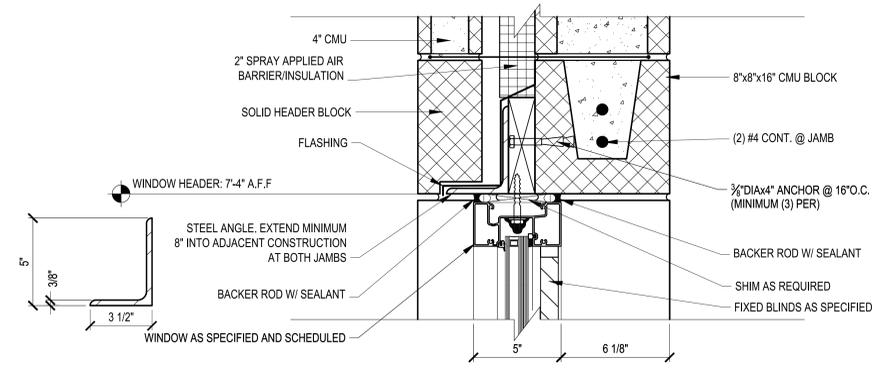
The diagram shows a window elevation with a width of 2'-8" and a height of 3'-0". It includes a reference to the schedule and a note '7'-4" A.F.F.'.



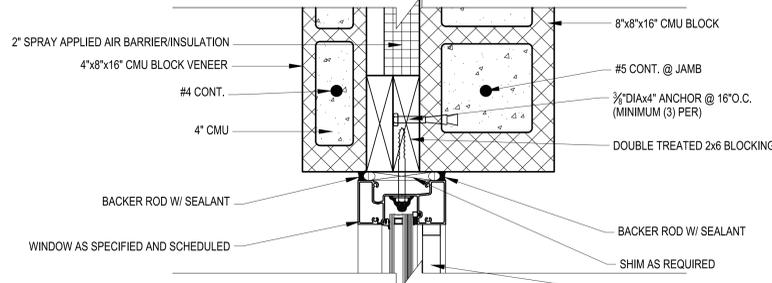
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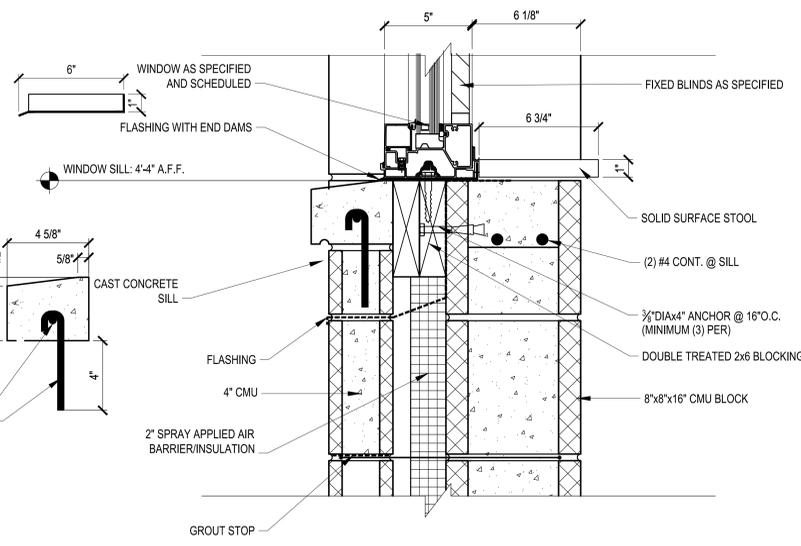
SCHEDULES					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A500



HEAD

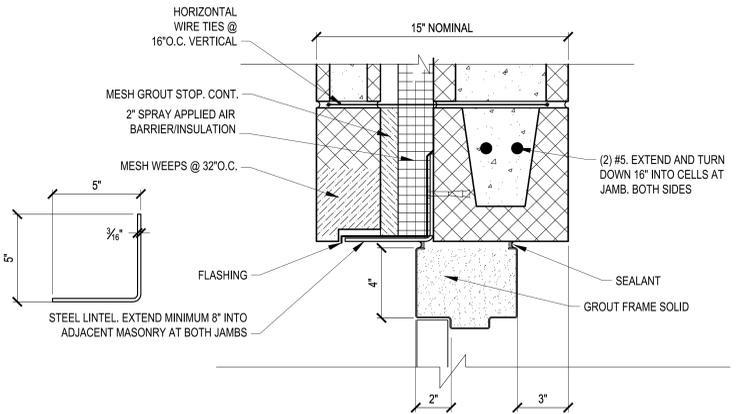


JAMB

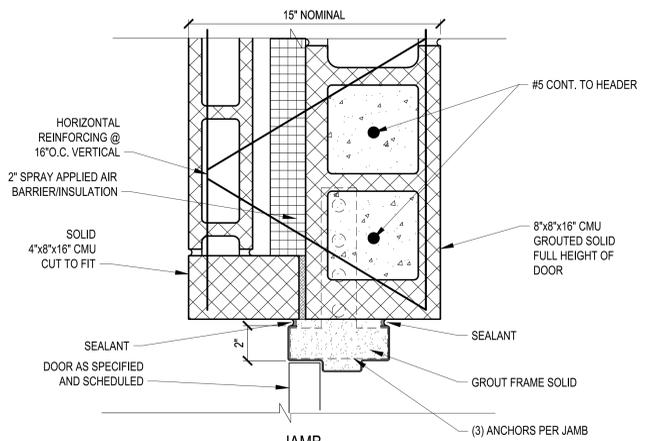


SILL

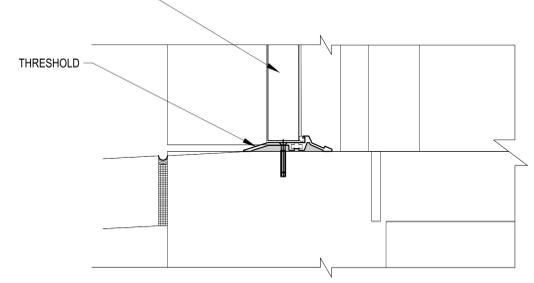
1 TYPICAL WINDOW DETAILS
SCALE: 3"=1'-0"



HEAD

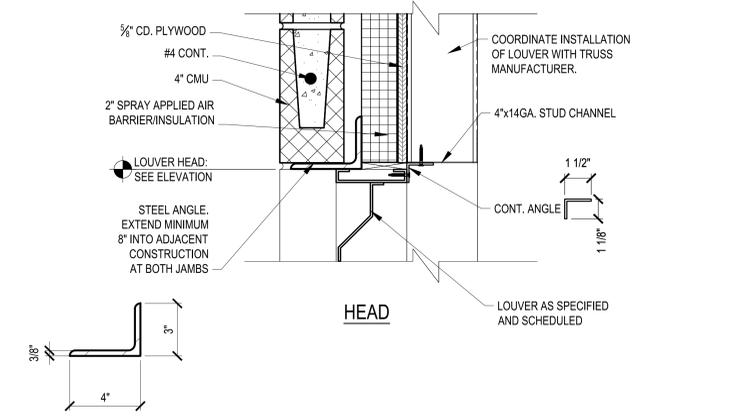


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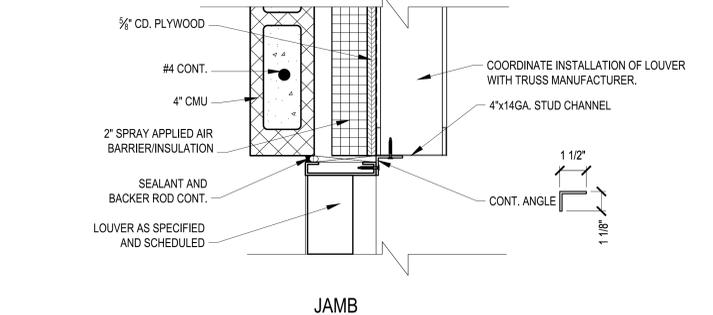


THRESHOLD

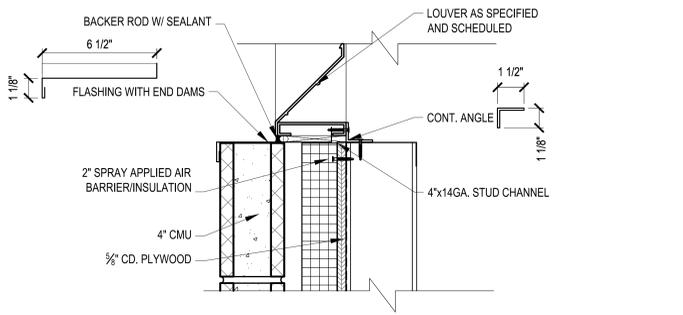
2 EXTERIOR DOOR DETAIL
SCALE: 3"=1'-0"



HEAD

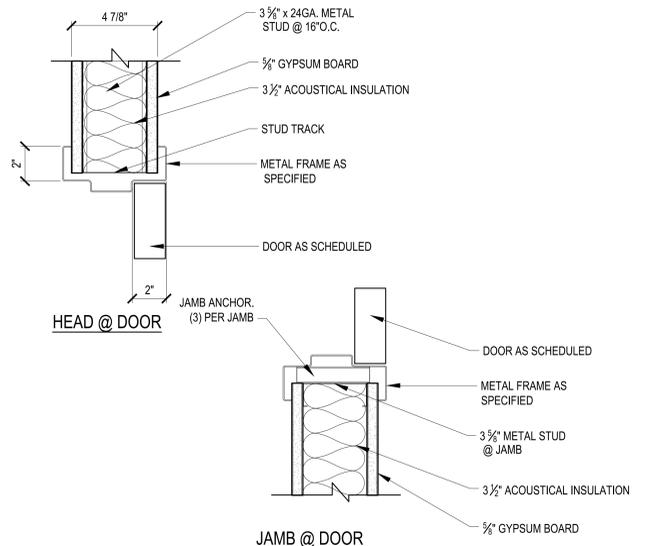


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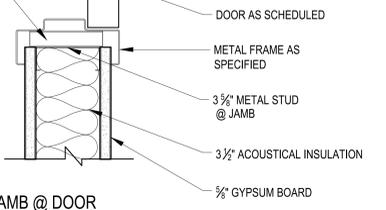


SILL

5 LOUVER DETAIL
SCALE: 3"=1'-0"

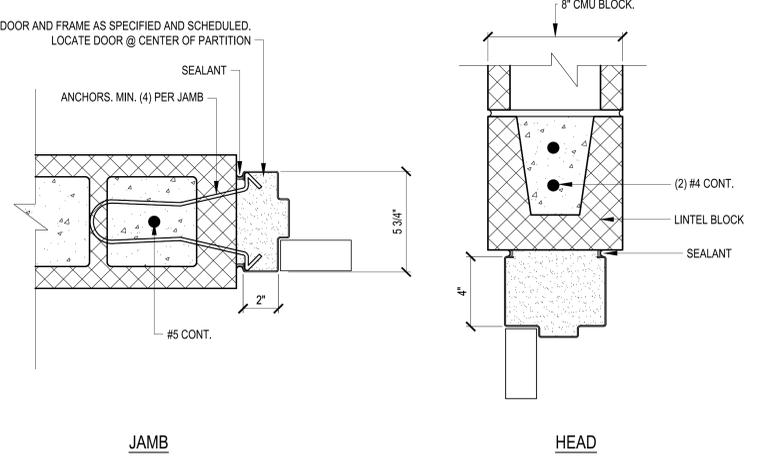


HEAD @ DOOR

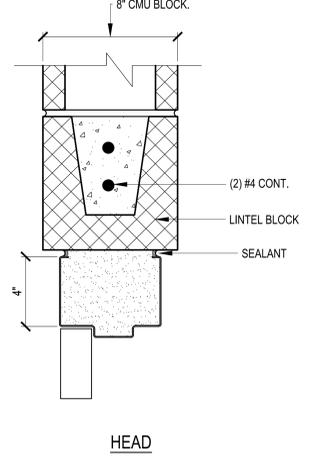


JAMB @ DOOR

3 INTERIOR DOOR DETAIL
SCALE: 3"=1'-0"

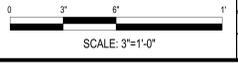


JAMB



HEAD

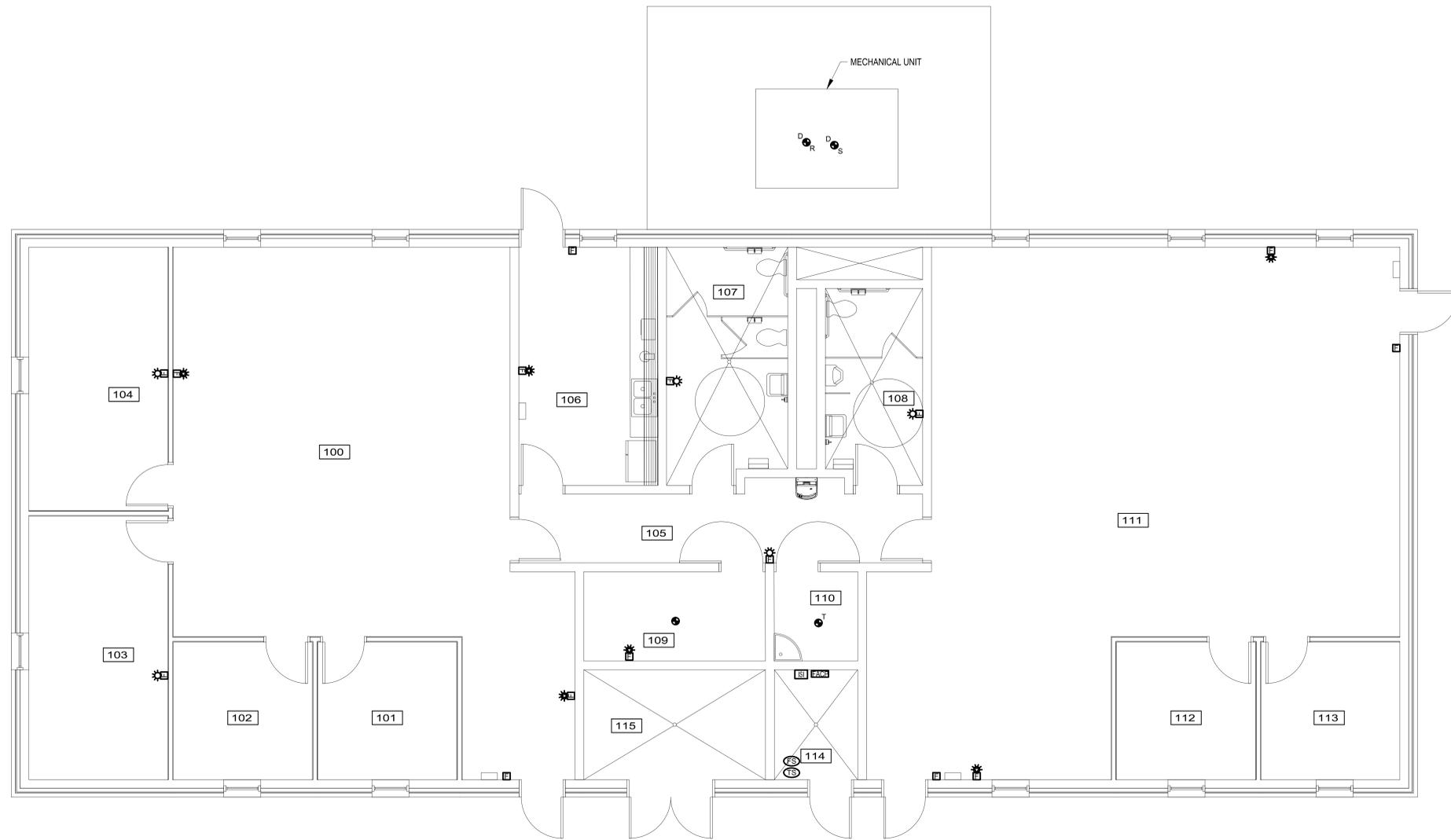
4 INTERIOR DOOR DETAIL
SCALE: 3"=1'-0"



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DOOR AND WINDOW DETAILS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
12/13/2024	AS SHOWN	R.E.H.	J.L.F.	F.E.J.	A501	



ROOM LEGEND	
ROOM NO	ROOM NAME
100	OPEN OFFICE
101	XO OFFICE
102	S3 OFFICE
103	CSM OFFICE
104	BC COMMANDER OFFICE
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
109	ELECT / TELECOM
110	JANITORIAL
111	MULTIPURPOSE TRAINING ROOM
112	S4 OFFICE
113	S1 OFFICE
114	FIRE RISER ROOM
115	MECHANICAL ROOM

FIRE ALARM NOTES:

- SCOPE OF PROJECT:**
- PROVIDE FIRE ALARM SYSTEMS THROUGHOUT.
 - PROVIDE SINGLE CLEAR STROBES.
- FIRE ALARM GENERAL NOTES:**
- PROVIDE NEW FIRE ALARM SYSTEMS.
 - THE FIRE ALARM SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE FOLLOWING CODES, REFERENCED STANDARDS, AND DOCUMENTATION. (MOST CONSERVATIVE PROVISION WILL APPLY WHERE CODES AND STANDARDS CONFLICT):
 - IBC - INTERNATIONAL BUILDING CODE
 - IFC - INTERNATIONAL FIRE CODE
 - NFPA - NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, INCLUDING, BUT NOT LIMITED TO:
 - NFPA 101 - LIFE SAFETY CODE
 - NFPA 1 - UNIFORM FIRE CODE
 - NFPA 70 - NATIONAL ELECTRICAL CODE
 - NFPA 72 - NATIONAL FIRE ALARM CODE
 OTHER NFPA CODES AND STANDARDS APPLY TO THE PROJECT AND ARE REFERENCED AS APPLICABLE.
 - EACH COMPONENT OF THE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT BY THE MANUFACTURER UNDER THE APPROPRIATE CATEGORY FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL.
 - THE CONTRACTOR SHALL DESIGN THE ALARM SYSTEM TO PROVIDE COMPLETE DETECTION THROUGHOUT IN ACCORDANCE WITH NFPA 72.
 - ALL HIDDEN WIRING IS TO BE INSTALLED IN EMT.
 - CONTRACTOR SHALL COORDINATE AND INTEGRATE SYSTEM REPORTING WITH LOCAL FIRE DEPARTMENT.

- CIRCUIT NOTES:**
- FIRE ALARM AND MNS CIRCUITS SHALL BE CLASS "B".
 - UNLESS INDICATED OTHERWISE, THE FOLLOWING WIRE SIZE SHALL BE USED:
 - SLC AND IDC: MINIMUM 18 AWG
 - NAC STROBE: MINIMUM 14 AWG
 - LOC, REMOTE ANNUNCIATOR: PER MFG
 - CLEAR "ALERT" STROBES SHALL BE USED.
 - CONDUIT FILL OF ALL CIRCUITS SHALL BE ACCOUNTED FOR.
 - MINIMUM 3/4" EMT RED CONDUIT IS REQUIRED FOR ALL CIRCUITS.
 - ALL FIRE ALARM AND MNS CONDUITS AND BACK BOXES SHALL BE RED DIPPED / PAINTED BY MFG.
 - ALL CONDUIT SHALL BE CONCEALED.
 - MINIMUM 25 PERCENT SPARE CAPACITY SHALL BE PROVIDED ON EACH CIRCUIT USING POINT-TO-POINT CALCULATIONS.
 - SLC AND OTHER DATA CIRCUITS SHALL BE RUN PER MFG. THESE MAY SHARE CONDUITS WITH STROBES WHEN PERMITTED BY MFG.

1 FIRE ALARM PLAN
FA100 SCALE: 1/4" = 1'-0"

FIRE ALARM DEVICES	
	MANUAL PULL STATION. MOUNT 48" A.F.F. TO CENTERLINE OF BOX.
	STROBE. MOUNT 80" A.F.F. TO BOTTOM OF BOX.
	COMBINATION HORN AND STROBE. MOUNT 80" A.F.F. TO BOTTOM OF BOX.
	SMOKE DETECTOR.
	THERMAL DETECTOR.
	DUCT SMOKE DETECTOR IN RETURN DUCT.
	DUCT SMOKE DETECTOR IN SUPPLY DUCT.
	FIRE ALARM/MASS NOTIFICATION CONTROL PANEL.
	INTERIOR SYSTEMS INTERFACE (RADIO CONTROLLER)
	FLOW SWITCH.
	TAMPER SWITCH.

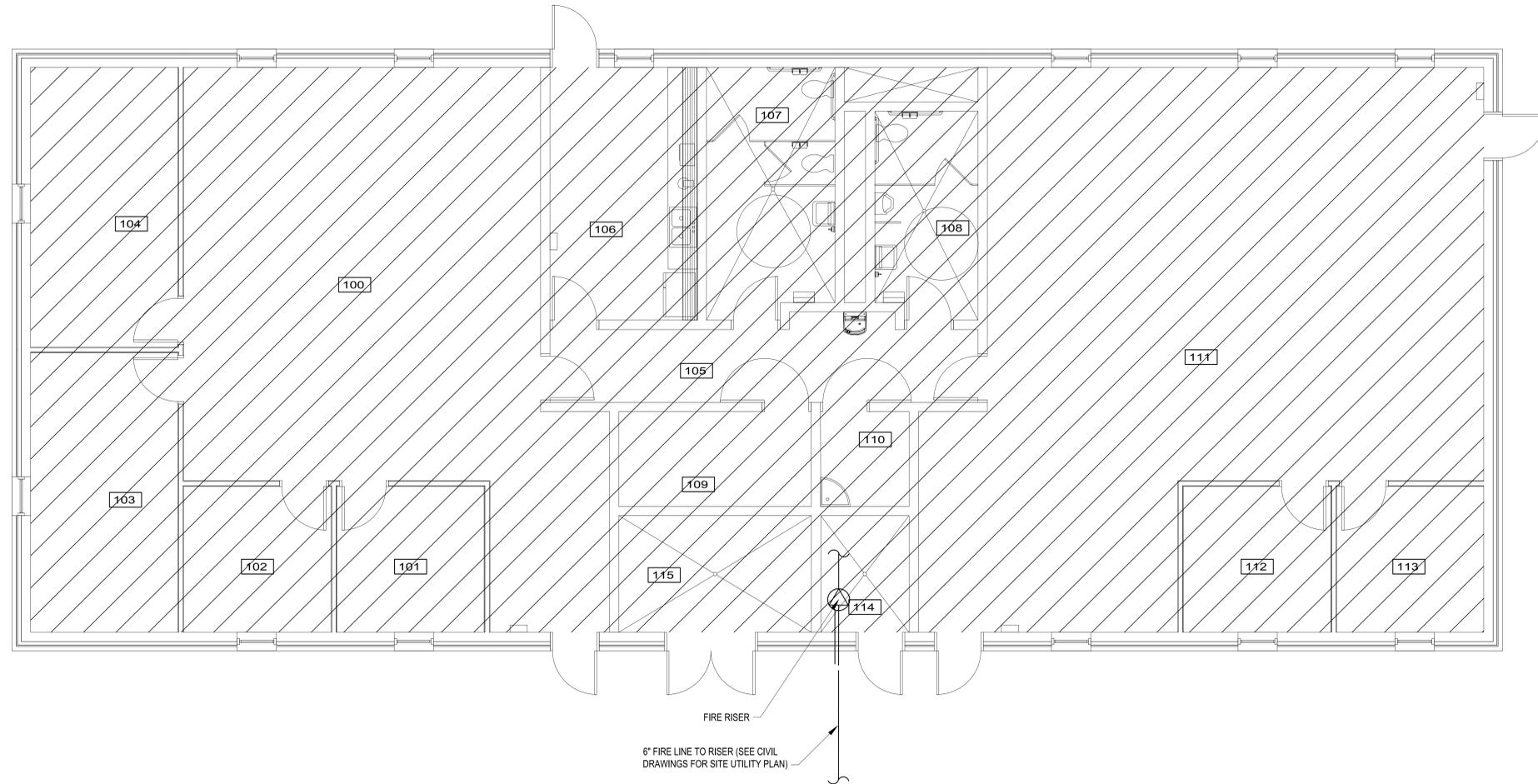
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FIRE ALARM PLAN

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	S.M.E.	S.M.E.	F.E.J.	FA100





ROOM LEGEND	
ROOM NO	ROOM NAME
100	OPEN OFFICE
101	XO OFFICE
102	S3 OFFICE
103	CSM OFFICE
104	BC COMMANDER OFFICE
105	CORRIDOR
106	BREAK ROOM
107	FEMALE TOILET
108	MALE TOILET
109	ELECT / TELECOM
110	JANITORIAL
111	MULTIPURPOSE TRAINING ROOM
112	S4 OFFICE
113	S1 OFFICE
114	FIRE RISER ROOM
115	MECHANICAL ROOM

SPRINKLER SYSTEM ZONE REQUIREMENTS	
ZONE 1	
WET TYPE SYSTEM	
LIGHT HAZARD	
225 SQ FT MAX	
AREA SPRINKLER	
0.1 GPM/SF DENSITY	

1 FIRE PROTECTION PLAN
 FP100 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- CONTRACTOR SHALL SIZE, FURNISH AND INSTALL A COMPLETE WET SPRINKLER SYSTEM FOR THE FACILITY SIZED TO HANDLE 0.1 GPM/SF FOR BARRACKS BUILDING.
- THE FIRE SPRINKLER SYSTEM SHALL BE DESIGN AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING CODES, REFERENCED STANDARDS, AND DOCUMENTATION. (MOST CONSERVATIVE PROVISION WILL APPLY WHERE CODES AND STANDARDS CONFLICT):
 - A. IBC - INTERNATIONAL BUILDING CODE (LATEST EDITION AS ENFORCED BY FLETC A/E GUIDE)
 - B. IFC - INTERNATIONAL FIRE CODE (2012 EDITION)
 - C. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, INCLUDING, BUT NOT LIMITED TO:
 - NFPA 101 - LIFE SAFETY CODE
 - NFPA 1 - UNIFORM FIRE CODE
 - NFPA 10 - PORTABLE FIRE EXTINGUISHER
 - NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 70 - NATIONAL ELECTRICAL CODE
 - NFPA 72 - NATIONAL FIRE ALARM CODE
 - NFPA 90A - INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2009 EDITION)
 - OTHER NFPA CODES AND STANDARDS APPLY TO THE PROJECT AND ARE REFERENCED AS APPLICABLE
 - D. UFC 3-600-01
- TOTAL SPRINKLER SYSTEM WATER SUPPLY DEMAND SHALL BE BASED ON NFPA 13 CRITERIA REQUIREMENTS FOR THE HYDRAULICALLY MOST DEMANDING AREA. THE AREA/DENSITY METHOD SHALL BE USED FOR ALL AREAS OF THE BUILDING.
- CONTRACTOR SHALL PERFORM A FLOW TEST PRIOR TO DEVELOPMENT OF SHOP DRAWINGS. ZONE VALVE ASSEMBLIES SHALL INCLUDE AN INDICATING TYPE CONTROL VALVE, A VALVE TAMPER SWITCH, WATER FLOW SWITCH, CHECK VALVE, AND PRESSURE GAUGES.
- ALL DRAINS SHALL DISCHARGE TO A SPLASH PLATE AT THE BUILDING EXTERIOR OR TO AN APPROVED LOCATION INSIDE THE BUILDING.
- CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE ADEQUATE DRAINAGE OF

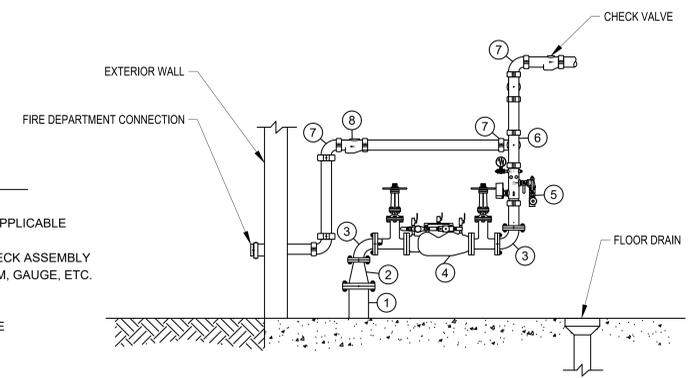
- ALL PIPING, AUXILIARY DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13.
- EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE LISTED AS A PRODUCT BY THE MANUFACTURER UNDER THE APPROPRIATE CATEGORY FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL.
- EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE, WHICH EXCEEDS THE MAXIMUM SYSTEM PRESSURE AT ITS INTENDED LOCATION. ALL PIPING SHALL BE RATED FOR A MAXIMUM SYSTEM WORKING PRESSURE OF 175 PSI.
- ORDINARY TEMPERATURE SPRINKLERS SHALL BE INSTALLED THROUGHOUT, EXCEPT WHERE OTHERWISE REQUIRED BASED ON ENVIRONMENTAL CONDITIONS (MAXIMUM CEILING TEMPERATURE) AS IDENTIFIED IN NFPA 13 AND AS IDENTIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR THE SPRINKLER SYSTEM SHOWING ALL NEW SPRINKLERS, SPACED AND LOCATED IN ACCORDANCE WITH NFPA 13. THE SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO STARTING WORK.
- CHANGES IN THE LOCATIONS OF SPRINKLERS FROM THOSE SHOWN ON THE APPROVED SHOP DRAWINGS SHALL BE IDENTIFIED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
- ADEQUATE CLEARANCE, AS DEFINED BY NFPA 13, SHALL BE PROVIDED BETWEEN SPRINKLERS AND HEAT GENERATING DEVICES.
- ALL PIPE SIZES INDICATED ON DRAWINGS ARE APPROXIMATE. FINAL PIPE SIZES SHALL BE DETERMINED VIA HYDRAULIC CALCULATIONS BY CONTRACTOR.
- SPRINKLER CONTRACTOR SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR CONNECTION TO FIRE ALARM SYSTEM.
- DESIGN CRITERIA:
 - A. LIGHT HAZARD: 0.10 GPM/S.F. OVER 1,500 S.F., 100 GPM HOSE STREAM.
- DO NOT ROUTE SPRINKLER SYSTEM PIPING OVER ELECTRICAL PANELS.
- SPRINKLERS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. THE CONTRACTOR SHALL DESIGN THE SPRINKLER SYSTEM TO PROVIDE COMPLETE PROTECTION THROUGHOUT IN ACCORDANCE WITH NFPA 13.
- SPRINKLER CONTRACTOR IS RESPONSIBLE FOR THE SYSTEMS HYDRAULIC DESIGN.

- CONTRACTOR RESPONSIBLE FOR PROVIDING ALL EQUIPMENT (I.E., STAGING/LIFTS, ETC.) TO COMPLETE THE SPRINKLER INSTALLATION.
- ALL PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 WITH THREADED FITTINGS. PIPING 2.5" AND LARGER TO BE SCHEDULE 10 WITH GROOVED ENDS WITH CORROSION RESISTANCE RATIO OF 1.0 OR GREATER.
- PROVIDE ADDITIONAL SPRINKLERS FOR OBSTRUCTIONS PER NFPA 13.
- PROVIDE QUICK RESPONSE SPRINKLERS THROUGHOUT.

DESIGN FLOW TEST DATA
 STATIC: 78 PSI
 RESIDUAL: 70 PSI @ 1,130 GPM

RISER DETAIL LEGEND

- D.I. PIPE TO 1'-0" A.F.F.
- FLANGE REDUCER - IF APPLICABLE
- FLANGED ELL
- DOUBLE DETECTOR CHECK ASSEMBLY
- ALARM VALVE WITH TRIM, GAUGE, ETC.
- GROOVED TEE
- GROOVED ELL
- GROOVED CHECK VALVE



2 FIRE RISER DETAIL
 FP100 SCALE: N.T.S.



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FIRE PROTECTION PLAN

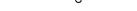
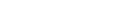
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12/13/2024	AS SHOWN	S.M.E.	S.M.E.	F.E.J.	FP100

PLUMBING ABBREVIATIONS:

°	DEGREES
Ø	DIAMETER
AC	AIR COMPRESSOR
AD	AIR DRYER
AFF	ABOVE FINISHED FLOOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CO	CLEANOUT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DWV	DRAIN WASTE AND VENT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ET	EXPANSION TANK
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
F	FARENHIGHT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FT	FOOT
GAS	NATURAL GAS
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER (DOMESTIC)
HWCP	HOT WATER CIRCULATION PUMP
HWR	HOT WATER RETURN (DOMESTIC)
IMB	ICE MAKER BOX
IPC	INTERNATIONAL PLUMBING CODE
KW	KILLOWATT
KS	KITCHEN SINK
LV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MS	MOP SINK
NPT	NATIONAL PIPE TAPER
P	PLUMBING
PDI	PLUMBING AND DRAINAGE INSTITUTE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RPZ	REDUCED PRESSURE ZONE
SH	SHOWER
SS	SAFETY SHOWER
SSEW	SAFETY SHOWER EYE WASH
SSWR	SANITARY SEWER
TYP	TYPICAL
U/G	UNDERGROUND
UR	URINAL
V	VENT PIPING
VTR	VENT THROUGH ROOF
W	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

NOTE:
UNDERLINED FIXTURE AND EQUIPMENT MARKS (SUCH AS WC) ARE NOT ABBREVIATIONS. REFER TO THE PLUMBING SCHEDULE SHEETS, P601 - P699 FOR FIXTURE AND EQUIPMENT DESCRIPTIONS.

PLUMBING LEGEND:

	DIRECTION OF FLOW
	PIPE TURNED DOWN
	PIPE TURNED UP
	RISE OR DROP
	BRANCH BOTTOM CONNECTION
	BRANCH TOP CONNECTION
	TEE OUTLET UP
	TEE OUTLET DOWN
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GENERAL PLUMBING NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). THE CONTRACTOR WILL PROVIDE A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM AS INDICATED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS AS INDICATED.
- THE PLUMBING CONTRACTOR SHALL REVIEW THE DRAWINGS OF OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND FOR COORDINATION OF PLUMBING WORK FOR OPERATIONS OF OR CONNECTIONS TO OTHER TRADES.
- REMOVE AND CAP CONNECTING UTILITIES (WATER, DRAINAGE, POWER, GAS, ETCETERA) AS INDICATED OR NECESSARY FOR FUTURE RECONNECTION.
- THE CONTRACTOR WILL EMPLOY WORKMEN WHO ARE TRAINED AND EXPERIENCED IN NECESSARY SKILLS TO PERFORM PLUMBING AND PLUMBING DEMOLITION WORK.
- THE CONTRACTOR WILL USE APPROPRIATE TOOLS AND SHALL NOT IMPART EXCESSIVE VIBRATIONS TO THE STRUCTURE OR OTHER BUILDING COMPONENTS.
- MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR WILL PROVIDE COORDINATION DRAWINGS OF TRADES.
- ALL NEW PIPING PENETRATIONS TO THE BUILDING ENVELOPE SHALL BE FULLY SEALED WATER TIGHT.
- THE CONTRACTOR WILL FIELD VERIFY EXACT LOCATIONS AND POINTS OF CONNECTIONS TO THE EXISTING UTILITIES (DOMESTIC WATER & SANITARY SEWER, NATURAL GAS, ETCETERA).
- REFER TO SPECIFICATIONS, SHEET NOTES, DETAILS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS PERTAINING TO THE PLUMBING WORK.
- ALL WORK (MATERIALS, EQUIPMENT, DEVICES, COMPONENTS, SYSTEMS, SUPPORTS, ETCETERA) MUST COMPLY WITH THE REQUIREMENTS OF ALL CODES, CODE AMENDMENTS, AND ORDINANCES AS USED, ADOPTED AND/OR ENFORCED BY THE LOCAL JURISDICTION, COUNTY AND STATE IN WHICH THE PROJECT IS LOCATED. WHERE INSPECTIONS ARE REQUIRED BY COR, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTS ARE COMPLETED AND ACCEPTED. REFER TO SPECIFICATIONS FOR APPLICABLE CODES.
- SCHEDULES, NOTES OR SPECIFICATIONS MAY REFERENCE "BASIS OF DESIGN" INFORMATION REGARDING A SPECIFIC MANUFACTURER OR MODEL NUMBER. SUCH INFORMATION IS PROVIDED SO AS TO ESTABLISH A STANDARD OF PERFORMANCE, QUALITY, FEATURES AND OPTIONS (SEE SCHEDULES AND SPECIFICATIONS). THE INTENT IS NOT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE PROVIDED SUCH EQUIPMENT EQUALS OR EXCEEDS THE BASIS OF DESIGN EQUIPMENT IN PERFORMANCE, QUALITY, FEATURES AND OPTIONS WHETHER SPECIFIED, SCHEDULED OR NOTED.
- ALL EQUIPMENT FURNISHED FOR THIS PROJECT MUST COMPLY WITH THE "BUY AMERICAN ACT".
- ALL WORK IS TO BE FABRICATED AND/OR ERRECTED USING CONTRACTOR'S FIELD MEASUREMENTS FOR PROPER COORDINATION WITH WORK OF OTHER TRADES.
- ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF THE WORK. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
- INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- EXCEPT WHERE INDICATED OTHERWISE, THE NOTATION OR DESCRIPTION OF ANY ITEM IN THE CONTRACT DOCUMENTS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.
- ALL WORK SHALL BE INSTALLED SO AS TO MAINTAIN ANY "UL" ASSEMBLY RATINGS, FIRE RATINGS OR SMOKE BARRIER CAPABILITIES OF WALLS, PARTITIONS, FLOORS AND ROOF. SEAL AROUND AND PLACE UL RATED FIRE-STOP MATERIAL AT ANY PENETRATION OR DISTURBANCE OF SUCH ASSEMBLIES. COORDINATE WITH ARCHITECTURAL PLANS AND DESIGN BUILDER.
- COORDINATE PLACEMENT OF ALL WORK WITH OTHER TRADES. DO NOT LOCATE, POSITION OR INSTALL ANY WORK IN SUCH A WAY THAT SYSTEM COMPONENTS OR ACCESS DOORS WILL BE INACCESSIBLE, UNUSABLE OR UN-MAINTAINABLE AFTER CONSTRUCTION IS COMPLETED. COMPLY WITH MANUFACTURER'S MINIMUM RECOMMENDED SERVICE CLEARANCES.
- UNLESS OTHERWISE INDICATED, ALL WORK IS TO BE SUPPORTED FROM STRUCTURE ABOVE, FROM WALLS, FROM COLUMNS, OR FROM THE FLOOR. DO NOT USE THE INSTALLED WORK OF OTHER TRADES, OR WORK RELATED TO ANY SUPPORT SYSTEMS FOR SUPPORT FOR OTHER TRADES.
- PROVIDE PIPE TRANSITIONS AS REQUIRED AT FIXTURE CONNECTIONS WHERE PIPE SIZES INDICATED DIFFER FROM THE FIXTURE CONNECTION SIZE.
- PROVIDE EQUIPMENT ACCESS PANELS FOR ALL EQUIPMENT AND VALVES THAT ARE LOCATED ABOVE HARD CEILINGS, IN WALLS, OR BEHIND SURFACES THAT ARE NOT REMOVABLE. ACCESS PANELS MUST BE 18"x18" MINIMUM UNLESS OTHERWISE NOTED. LOCATE ACCESS PANELS AS CLOSE AS POSSIBLE TO DEVICE NEEDING ACCESS, BUT NO FARTHER THAN 24" AWAY.
- DOMESTIC WATER PIPING SHALL BE TYPE K RIGID COPPER WITH PRESS FITTINGS.
- ALL GAS PIPING WORK OUTSIDE OF THE BUILDING SHALL BE COMPLETED UNDER THE SUPERVISION OF AN OPERATOR QUALIFICATION CERTIFIED CONTRACTOR.



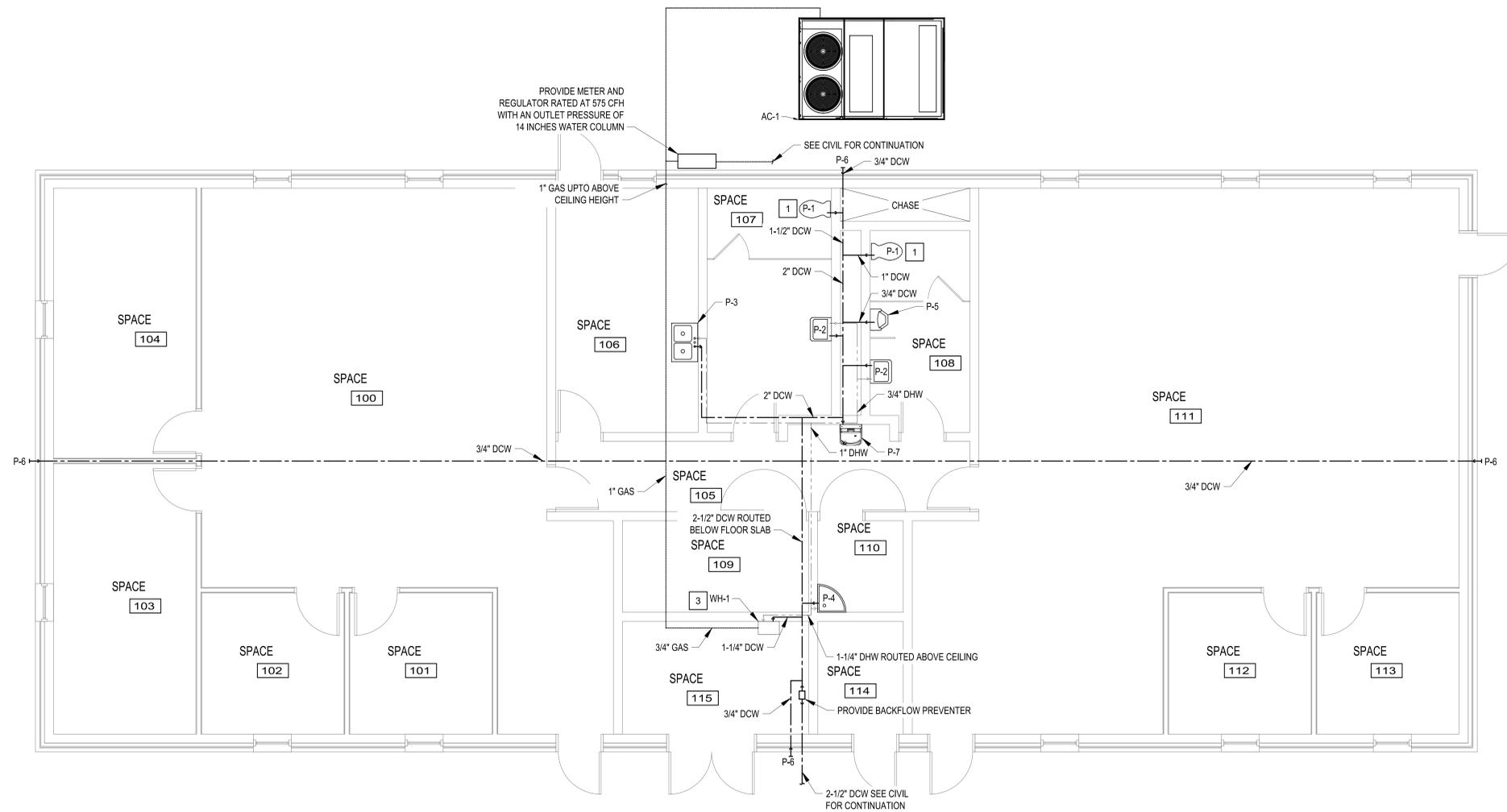
		PN: 28250205 BATTALION HQ BUILDING TT S233 CAMP MCCAIN, GRENADA, MISSISSIPPI			
		FIRM P.A. ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT P.O. BOX 513, GREENWOOD, MISSISSIPPI - (662) 455-4943			
PLUMBING LEGEND, NOTES, AND ABBREVIATIONS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	S.M.E.	D.K.M.	F.E.J.	P001

KEYED NOTES

1. INSTALL WATER CLOSET AT ABA HEIGHT. SEE ARCHITECTURAL.
2. ROUTE 3/4" CONDENSATE TO FLOOR DRAIN LOCATED IN ROOM 115.
3. PROVIDE REGULATOR TO REDUCE GAS PRESSURE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

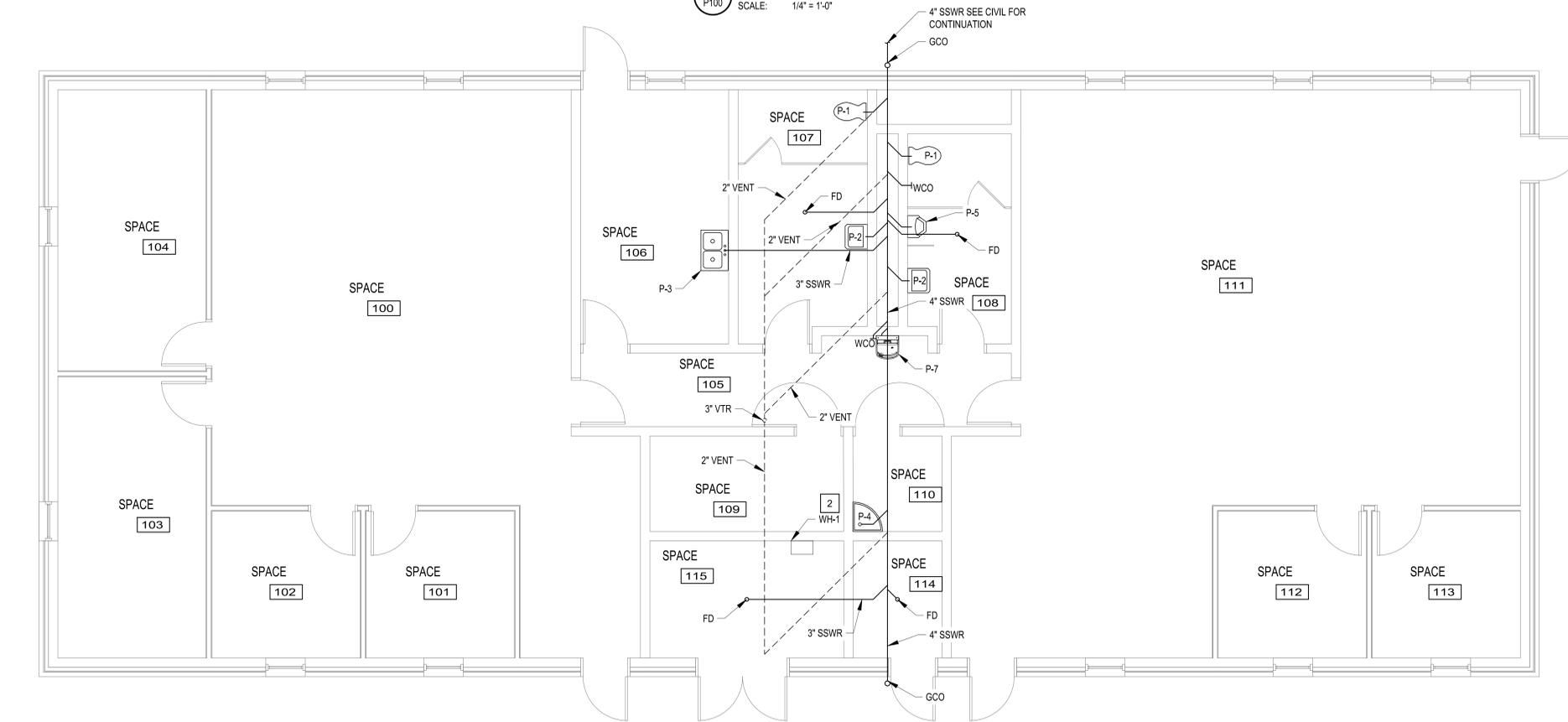
GENERAL NOTES

1. ALL GAS PIPING WORK OUTSIDE OF THE BUILDING SHALL BE COMPLETED UNDER THE SUPERVISION OF AN OPERATOR QUALIFICATION CERTIFIED CONTRACTOR.



1 DOMESTIC WATER FLOOR PLAN

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



2 SANITARY FLOOR PLAN

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

PIPING LEGEND

- SSWR _____
- VENT PIPING - - - - -
- DCW _____
- DHW _____
- GAS _____

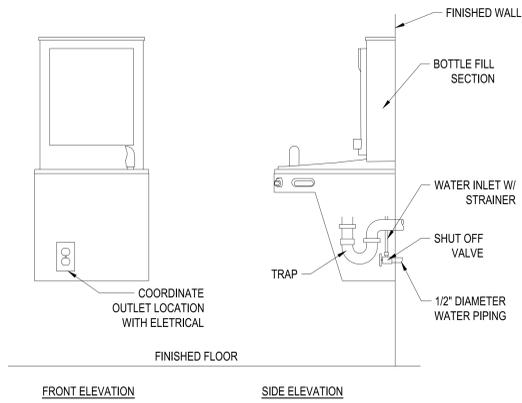
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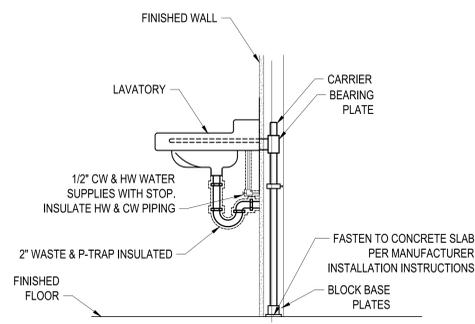
PLUMBING FLOOR PLAN

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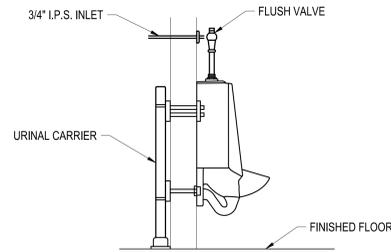




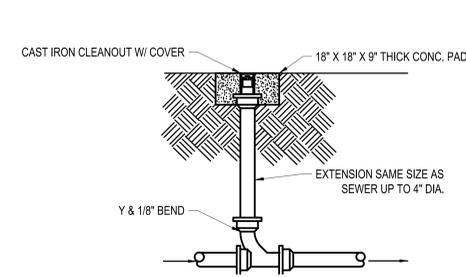
1 ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (P-7)
 P501 SCALE: N.T.S



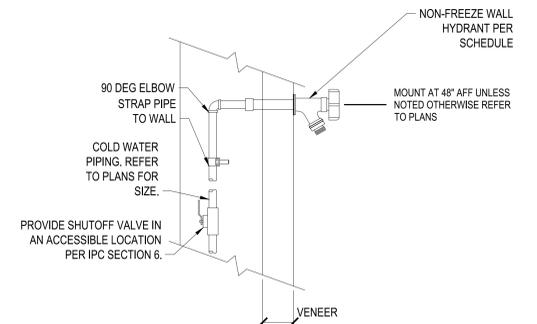
2 WALL MOUNTED LAVATORY DETAIL (P-2)
 P501 SCALE: N.T.S



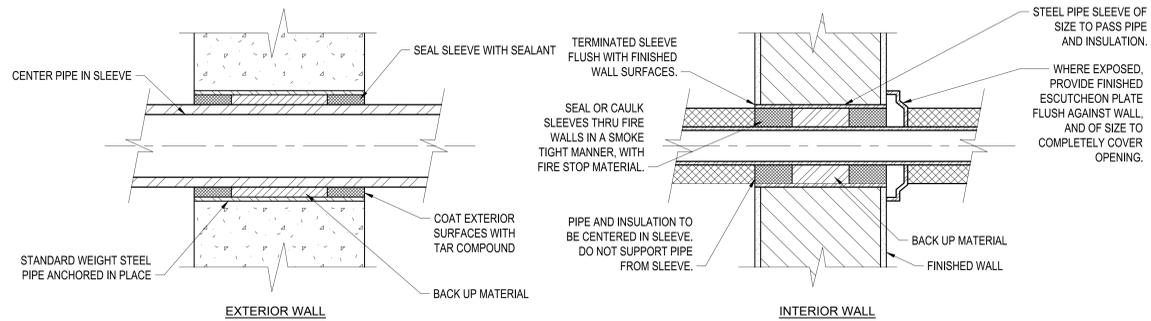
3 WALL HUNG URINAL DETAIL (P-5)
 P501 SCALE: N.T.S



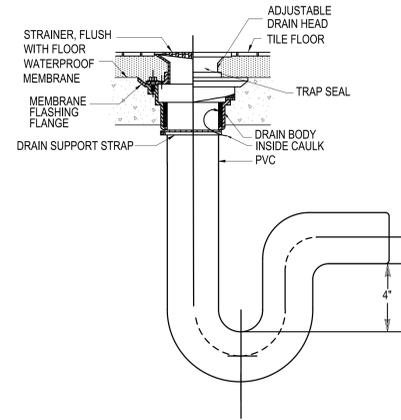
4 GRADE CLEANOUT DETAIL (GCO)
 P501 SCALE: N.T.S



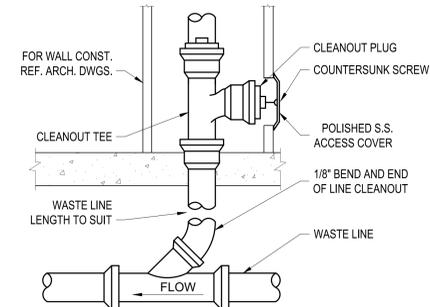
5 WALL HYDRANT DETAIL (P-6)
 P501 SCALE: N.T.S



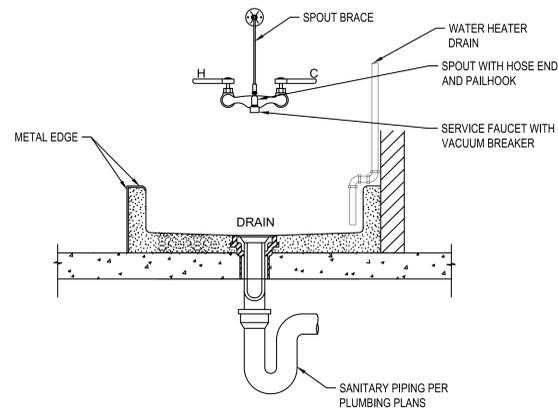
6 TYPICAL PIPE SLEEVES THROUGH WALLS
 P501 SCALE: N.T.S



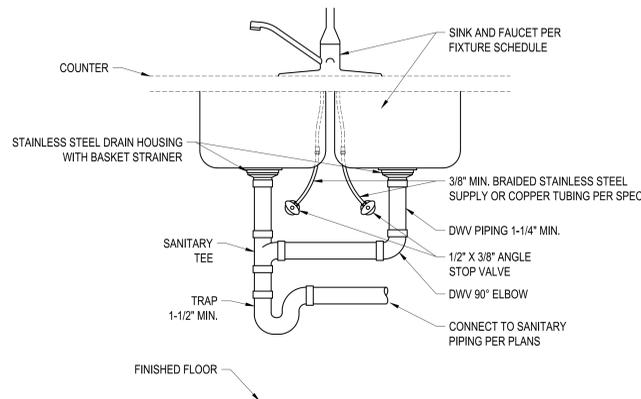
7 FLOOR DRAIN WITH SEAL DETAIL (FD)
 P501 SCALE: N.T.S



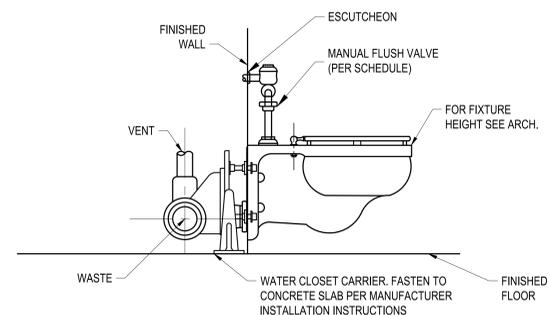
8 WALL CLEANOUT DETAIL (WCO)
 P501 SCALE: N.T.S



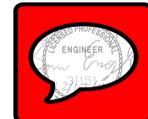
9 SERVICE SINK DETAIL (P-4)
 P501 SCALE: N.T.S



10 BREAKROOM SINK DETAIL (P-3)
 P501 SCALE: N.T.S



11 WALL MOUNTED WATER CLOSET DETAIL (P-1)
 P501 SCALE: N.T.S



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PLUMBING DETAILS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
12/13/2024	AS SHOWN	S.M.E.	D.K.M.	F.E.J.	P501	

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CW	HW	MIN. WASTE	MIN. TRAP	VENT	REMARKS
P-1	WALL-MOUNTED WATER CLOSET	1"	-	4"	-	2"	KOHLER KINGSTON ULTRA K-84325-SS-0 OR EQUAL WALL-MOUNTED, ABA COMPLIANT, FLUSH VALVE, 1.28 GPF (KOHLER MACH MANUAL K-80TM00N10) OR EQUAL. PROVIDE W/WHITE SEAT.
P-2	LAVATORY- WALL MOUNTED	1/2"	1/2"	2"	1-1/2"	1-1/2"	KOHLER KINGSTON K-2005-0 OR EQUAL WALL MOUNTED LAVATORY. PROVIDE WITH FAUCET (KOHLER CORALAIS K-15199-4) OR EQUAL 0.5 GPM. PROVIDE WITH AERATOR. PROVIDE LEONARD 170LF MIXING VALVE OR EQUAL SET TO 110°F AT EACH FIXTURE.
P-3	BREAKROOM SINK	1/2"	1/2"	3"	1-1/2"	1-1/2"	ELKAY LRAD332255 33"x22"x5-1/2" DOUBLE BOWL UNDER MOUNTED SINK. PROVIDE STRAINER, 1-1/4" x 1-1/2" P-TRAP, INSULATION KIT. PROVIDE ELKAY LK406GN04T4 FAUCET OR EQUAL 1.5 GPM. PROVIDE LEONARD 170LF MIXING VALVE OR EQUAL SET TO 110°F AT EACH FIXTURE.
P-4	SERVICE SINK	1/2"	1/2"	2"	2"	1-1/2"	PROVIDE TERAZZO SERVICE SINK EQUAL TO ACORN TDF-24. PROVIDE WITH AMERICAN STANDARD 8350.243 OR EQUAL 5 GPM FAUCET, CAST BRASS SPOUT WITH VACUUM BREAKER. PROVIDE WITH STRAINER AND DRAIN.
P-5	WALL-MOUNTED URINAL	3/4"	-	2"	2"	2"	KOHLER K-4991-ET VITREOUS CHINA WALL MOUNTED URINAL AND KOHLER K-76319 MANUAL 1 GPF FLUSHMETER.
P-6	FREEZE PROOF WALL HYDRANT	3/4"	-	-	-	-	PRIER C-144 NON-FREEZE, ANTI-SIPHON DESIGN WALL-HYDRANT.
P-7	DRINKING FOUNTAIN ABA HEIGHT	1/2"	-	2"	2"	2"	115 VOLT, 5 FULL LOAD AMP, 370 RATED WATT WALL MOUNTED FILTERED REFRIGERATED ELKAY LZS8WSP COOLER WITH BOTTLE FILLER.
WCO	WALL CLEANOUT	-	-	4"	-	-	ZURN Z1446 4" DURA-COAT CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG FLOOR CLEANOUT OR EQUAL. PROVIDE WITH ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
GC0	GRADE CLEANOUT	-	-	4"	-	-	ZURN Z1400-BZ1 4" CAST IRON CLEANOUT OR EQUAL. PROVIDE WITH TYPE B SCORIATED ACCESS COVER.
FD	FLOOR DRAIN	-	-	3"	2"	1-1/2"	ZURN ZN415 3" FLOOR DRAIN OR EQUAL. PROVIDE WITH DEEP SEAL TRAPS AND TRAP SEALS.

WATER HEATER SCHEDULE

MARK	TYPE	BASIS OF DESIGN	MIN/MAX INPUT (BTU/H)	MIN/MAX PRESSURE (IN WC)	MIN FLOWRATE (GPM)	MAX FLOWRATE (GPM)	EWT (°F)	LWT (°F)	FUEL TYPE	ELECTRICAL			DIMENSIONS			REMARKS
										V	PH	FREQ.	DIAM (IN)	HEIGHT (IN)	WEIGHT (LBS)	
WH-1	TANKLESS DOMESTIC WATER HEATER	AOSMITH ACT-199I-N	15,000/199,000	4.0 / 10.5	0.25	10	63	140	NATURAL GAS	120	1	60	19	47.5	125	SEE NOTES

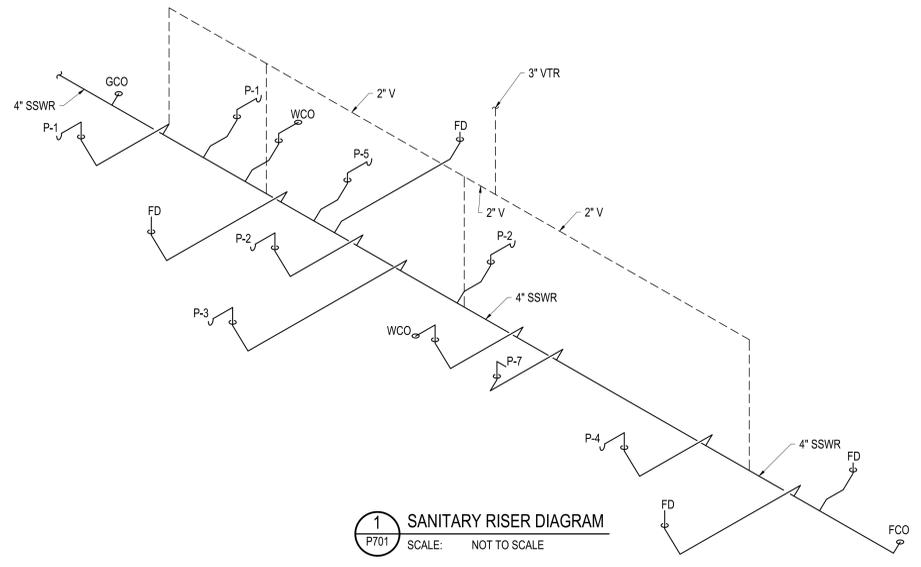
NOTES:
 1. LEAVING WATER TEMPERATURE SHALL BE SET FOR 120°F.
 2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



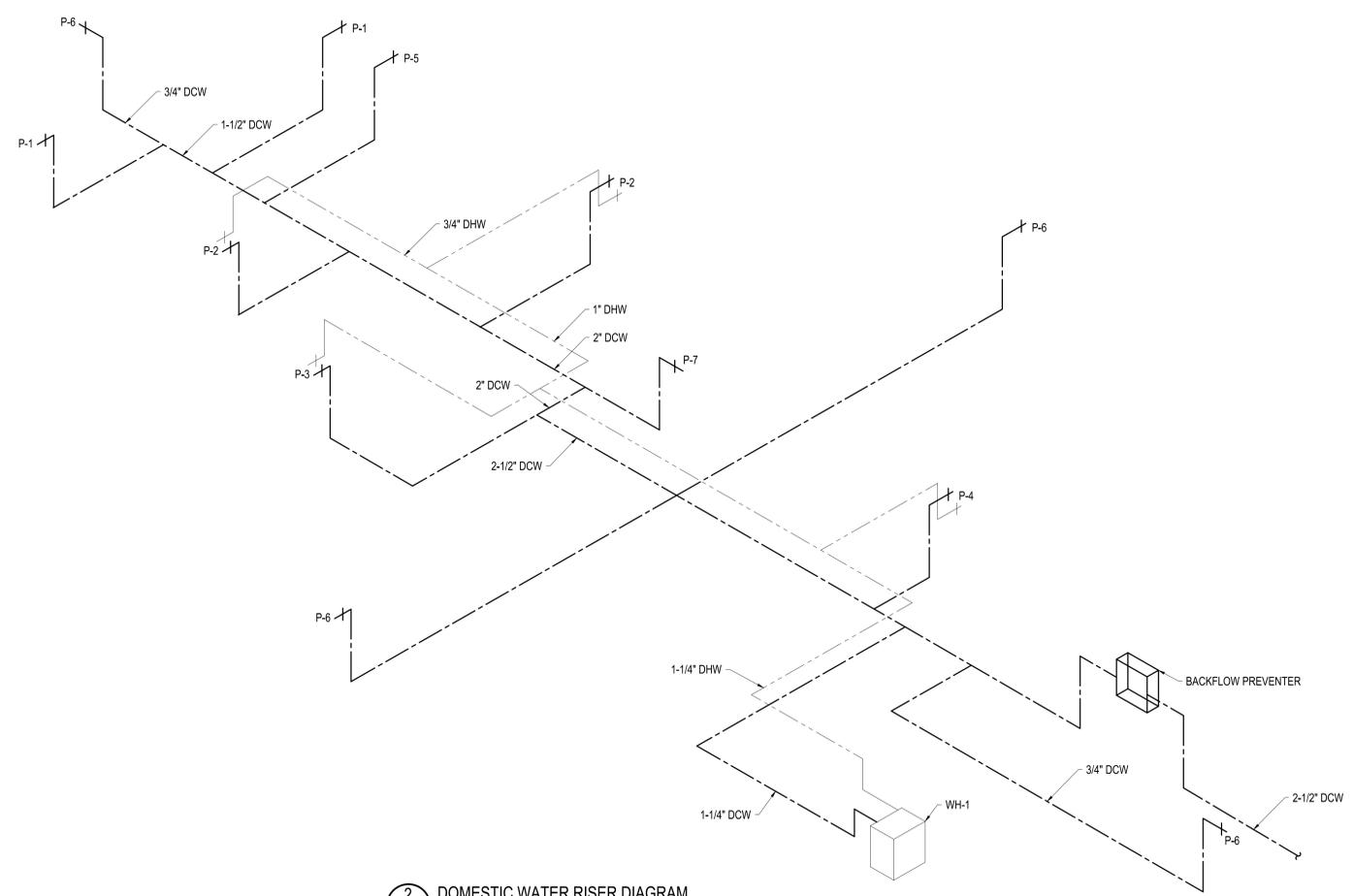
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PLUMBING SCHEDULES					
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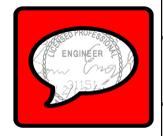


1 SANITARY RISER DIAGRAM
 P701 SCALE: NOT TO SCALE



2 DOMESTIC WATER RISER DIAGRAM
 P701 SCALE: NOT TO SCALE

- PIPING LEGEND**
- NEW SSWR PIPING _____
 - VENT PIPING - - - - -
 - DCW _____
 - DHW - - - - -



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PLUMBING RISERS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
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GENERAL MECHANICAL NOTES:

- COORDINATE MECHANICAL AND ELECTRICAL SUCH THAT MECHANICAL PIPING, DUCTWORK AND EQUIPMENT IS NOT LOCATED OVER OR ABOVE ANY ELECTRICAL, COMMUNICATIONS, OR DATA EQUIPMENT.
- AT START OF CONSTRUCTION, PREPARE TYPED LISTS OF EQUIPMENT THAT IS BEING SUPPLIED REQUIRING ELECTRICAL WORK, AND SEND LISTS TO THE ELECTRICAL CONTRACTOR FOR REVIEW AND COORDINATION.
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED CLEARANCE, UNIFIED FACILITIES CRITERIA, AND INTERNATIONAL BUILDING CODE / INTERNATIONAL MECHANICAL CODE.
- INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT WITHOUT NECESSITATING REMOVAL OR MODIFICATION TO OTHER PIPING, WIRING, OR EQUIPMENT.
- CEILING-MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, DUCTWORK, ETC., DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
- COORDINATE WALL, FLOOR, AND ROOF PENETRATIONS WITH APPLICABLE TRADES.
- CAULK WITH SILICONE ALL GAPS BETWEEN WALL, CEILING, AND FLOOR OPENINGS AND HVAC EQUIPMENT PENETRATIONS. PATCH LARGE GAPS BEFORE CAULKING IS APPLIED.
- SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT HVAC EQUIPMENT FROM MAIN STRUCTURE SHALL BE PROVIDED BY THE HVAC CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- DUCTWORK AIR DISTRIBUTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND THE PRESSURE CLASSIFICATION OF EACH INDIVIDUAL DUCTWORK SYSTEM.
- INSTRUMENT TEST HOLES SHALL BE PROVIDED IN AIR DISTRIBUTION SYSTEMS WHEREVER VOLUME DAMPERS ARE INSTALLED. TEST HOLES SHALL BE SEALED WITH RUBBER OR PLASTIC TEST HOLE PLUGS.
- SQUARE ELBOWS SHALL ONLY BE USED WHERE SHOWN, PROVIDE TURNING VANES IN ALL SQUARE ELBOWS GREATER THAN OR EQUAL TO 45°. TURNING VANES SHALL BE SINGLE THICKNESS TYPE WITHOUT RAILING EDGE. TURNING VANES LONGER THAN 36 INCHES SHALL BE DOUBLE THICKNESS TYPE.
- PROVIDE SHEET METAL TRANSITIONS AT AIR HANDLING UNITS, HEAT PUMP UNITS, FANS, AND OTHER SIMILAR HVAC EQUIPMENT. TRANSITION TO FULL SIZE OF CONNECTION ON UNIT. FLEXIBLE DUCT CONNECTORS SHALL BE USED ON FINAL CONNECTION TO AIR HANDLING EQUIPMENT.
- SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK SHALL BE INSULATED TO MEET OR EXCEED ASHRAE 189.1. EXTERIOR SUPPLY AND RETURN AIR DUCTWORK SHALL BE PROVIDED WITH JACKETING IN ACCORDANCE WITH SPECIFICATIONS.
- COORDINATE LOCATIONS OF CONDENSATE DRAIN PIPING. PROVIDE CONDENSATE PUMPS, AS REQUIRED WHERE SUFFICIENT SLOPE IS NOT AVAILABLE FOR STANDARD GRAVITY DRAIN. WITH OVERRIDE SWITCH TO POWER DOWN THE ASSOCIATED AIR HANDLING EQUIPMENT IN CASE OF CONDENSATE PUMP FAILURE. CONDENSATE DRAIN LINE SHALL SLOPE DOWN TOWARDS DISCHARGE LOCATION AT A MINIMUM OF 1/8" PER LINEAR FOOT. INSULATE INDOOR CONDENSATE PIPING WITH 1" CLOSED CELL FOAM INSULATION.
- PROVIDE SUPPORTS FOR PIPING AND DUCTWORK IN ACCORDANCE WITH SPECIFICATIONS.
- PROVIDE PADS AND SUPPORTS FOR MECHANICAL EQUIPMENT. COORDINATE WITH CIVIL FOR EXTERIOR EQUIPMENT PADS.
- PROVIDE SHUT-OFF VALVES AND FLEXIBLE CONNECTIONS AT PIPE CONNECTIONS TO HVAC EQUIPMENT.
- FOR WALL, FLOOR, AND SLAB PENETRATIONS, SEAL AND PATCH ALL UNUSED PENETRATION SPACE TO MATCH EXISTING OR AS SHOWN ON MECHANICAL DETAILS SHEET.
- INSTALL EXPOSED CONTROL WIRING IN CONDUIT. SEE DIVISION 26 SPECIFICATIONS FOR REQUIREMENTS.
- PIPING INSULATION SHALL BE PROVIDED ON ALL PIPING SYSTEMS INCLUDING (BUT NOT LIMITED TO) CHILLED WATER, HEATING HOT WATER, REFRIGERANT, AND CONDENSATE DRAIN IN ACCORDANCE WITH ASHRAE 189.1.
- SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS. HOWEVER, ITEMS SHOWN ON DRAWING BUT NOT IN THE SPECIFICATIONS ARE REQUIRED WITHIN THE PROJECT SCOPE. IN ADDITION, SPECIFIC ITEMS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS IN CASES WHERE THE SPECIFICATION HAS OPTIONS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
- DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- NOT ALL MECHANICAL ABBREVIATIONS AND LEGEND ITEMS SHOWN WILL BE USED FOR THIS PROJECT.
- ALL EQUIPMENT INSTALLED IN THIS PROJECT SHALL COMPLY WITH THE "BUY AMERICAN ACT". BASIS OF DESIGN SHOWN ON SCHEDULES IS TO ESTABLISH A STANDARD OF QUALITY, NOT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT FROM ANOTHER MANUFACTURER IS ACCEPTABLE.
- HVAC SYSTEM SHALL BE PROVIDED WITH AN EMERGENCY AIR DISTRIBUTION SHUTOFF PUSH BUTTON CONTROL STATION. PUSH BUTTON CONTROL STATION SHALL BE AN ENCLOSED EMERGENCY STOP PUSH BUTTON CONTROL STATION WITH LABEL INDICATING "EMERGENCY - HVAC SHUTDOWN" IN WHITE LETTERING AND RED BACKGROUND. PUSH BUTTON SHALL PROVIDE AN OUTPUT TO THE MASS NOTIFICATION SYSTEM TO INITIATE THE ATPF SEQUENCE. THE MASS NOTIFICATION SYSTEM SHALL SEND OUTPUT TO THE HVAC CONTROL SYSTEM IN ACCORDANCE WITH UFC 4-010-01. ALL OUTDOOR AIR, RELIEF AIR, AND EXHAUST AIR OPENINGS SHALL BE PROVIDED WITH LOW LEAKAGE DAMPERS. UPON ACTIVATION OF THE EMERGENCY AIR DISTRIBUTION SHUTOFF THESE DAMPERS MUST CLOSE IN ACCORDANCE WITH UFC 4-010-01. INSTALL PUSH BUTTON IN A PROTECTIVE POLYCARBONATE ENCLOSURE WITH LOCAL AUDIBLE TAMPER ALARM (SIMILAR TO STI UNIVERSAL STOPPER.)
- PROVIDE A HAND-AUTO-OFF SWITCH IN MECHANICAL ROOM FOR EACH MECHANICAL UNIT SERVING THE BUILDING INCLUDING BUT NOT LIMITED TO EXHAUST FANS, AIR HANDLING UNITS, ETC. INTERCONNECT THE HAND-AUTO-OFF SWITCH OF EACH EXHAUST FAN AND AIR HANDLING UNIT WITH THE ATPF SHUTDOWN SWITCH AND DAMPER.
- CONTROLS CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE DEVICES, CONDUCTORS, AND PATHWAYS IN ACCORDANCE WITH THE REQUIREMENTS OF 26 20 00.

ABBREVIATIONS:

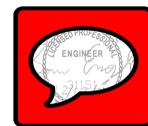
@ &	AT	HTG	HEATING
AHU	AIR HANDLING UNIT	HTR	HEATER
ARCH	ARCHITECT, ARCHITECTURAL	HTW	HEATING WATER
AS	AIR SEPARATOR	HWR	HEATING WATER RETURN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	HWS	HEATING WATER SUPPLY
	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HV	HEATING AND VENTILATING
		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
ASTM		HX	HEAT EXCHANGER
		HZ	HERTZ
BDD	BACKDRAFT DAMPER	IMC	INTERNATIONAL MECHANICAL CODE
BLDG	BUILDING	IN	INCH, INCHES
BTU, BTUH	BRITISH THERMAL UNITS, BTUs PER HOUR	IN WC	INCHES WATER COLUMN
		IN WG	INCHES WATER GAUGE
		IPLV	INTEGRATED PART LOAD VALUE
CD	CONDENSATE DRAIN	KW	KILOWATTS
CFM	CUBIC FEET PER MINUTE	L	LENGTH, LOUVER (WALL)
CHW	CHILLED WATER	LAT	LEAVING AIR TEMPERATURE
CHWR	CHILLED WATER RETURN	LBD	LINEAR BAR DIFFUSER
CHWS	CHILLED WATER SUPPLY	LBS	POUNDS
CLG	COOLING	LWT	LEAVING WATER TEMPERATURE
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM
CO	CLEANOUT	MBH	1000 BRITISH THERMAL UNITS
CO2	CARBON DIOXIDE	MCA	MINIMUM CIRCUIT AMPACITY
CONC	CONCRETE	MECH	MECHANICAL
COND	STEAM CONDENSATE	MERV	MINIMUM EFFICIENCY REPORTING VALUE
CONN	CONNECT, CONNECTING, CONNECTION	MFCR, MFCG	MANUFACTURER, MANUFACTURING
CONT	CONTINUED	MIN	MINIMUM
CONV	STEAM CONVERTER	MOC	MAXIMUM OVER CURRENT PROTECTION
COP	COEFFICIENT OF PERFORMANCE	MOP	MEDIUM TEMPERATURE WATER RETURN
COR	CONTRACTING OFFICER'S (OWNER'S) REPRESENTATIVE	MTWR	MEDIUM TEMPERATURE WATER SUPPLY
CU	COOLING TOWER	N.C.	NORMALLY CLOSED
CW	CONDENSING UNIT	NC	NOISE CRITERIA
CWR	CONDENSER WATER RETURN	NG	NATURAL GAS
CWS	CONDENSER WATER SUPPLY	NO.	NUMBER
		N.O.	NORMALLY OPEN
		NTS	NOT TO SCALE
D	DEPTH	OA	OUTSIDE AIR
DB, Tdb	DRY BULB (TEMPERATURE)	OD	OUTSIDE DAMPER
dBA	DECIBELS	PCHWR	PLANT CHILLED WATER RETURN
DCW	DOMESTIC COLD WATER	PCHWS	PLANT CHILLED WATER SUPPLY
DDC	DIRECT DIGITAL CONTROLS	PD	PRESSURE DROP
DEG. F (F)	DEGREES FAHRENHEIT	PH	PHASE
DF	DESTRATIFICATION FAN	PLBG	PLUMBING
DFCU	DUCTLESS FAN COIL UNIT	PMTWR	PLANT MEDIUM TEMPERATURE WATER RETURN
DH	DEHUMIDIFIER	PMTWS	PLANT MEDIUM TEMPERATURE WATER SUPPLY
DIA, Ø	DIAMETER	PPM	PARTS PER MILLION
DIV	DIVISION	PRV	PRESSURE RELIEF VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DP, PD	DIFFERENTIAL PRESSURE, PRESSURE DROP	QTY	QUANTITY
DSCU	DUCTLESS SPLIT CONDENSING UNIT	RA	RETURN AIR
DSPH	DUCTLESS SPLIT HEAT PUMP	RAG	RETURN AIR GRILLE
DWG	DRAWING	RH	RELATIVE HUMIDITY, ROOF HOOD
DX	DIRECT EXPANSION	RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
EA	EXHAUST AIR	SA	SUPPLY AIR
EAG	EXHAUST AIR GRILLE	SAD	SUPPLY AIR DIFFUSER
EAT	ENTERING AIR TEMPERATURE	SAG	SUPPLY AIR GRILLE
EER	ENERGY EFFICIENCY RATIO	SD	SMOKE DAMPER, SMOKE DETECTOR
EF	EXHAUST FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY	SF	SUPPLY FAN
ELEC	ELECTRICAL	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
EMCS	ENERGY MONITORING AND CONTROLS SYSTEM	SP	STATIC PRESSURE
ERU	ENERGY RECOVERY UNIT	SS	STAINLESS STEEL
ERV	ENERGY RECOVERY VENTILATOR	TEMP	TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE	TSTAT	THERMOSTAT
ET	EXPANSION TANK	TYP	TYPICAL
EUH	ELECTRIC UNIT HEATER	UH	UNIT HEATER
EWT	ENTERING WATER TEMPERATURE	UL	UNDERWRITER'S LABORATORY
EXT	EXTERIOR	UMCS	UTILITY MONITORING AND CONTROL SYSTEM
EXH	EXHAUST	V	VOLTAGE, VOLTS
EXIST.	EXISTING	VAV	VARIABLE AIR VOLUME
FCU	FAN COIL UNIT	VD	VOLUME DAMPER
FD	FIRE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
FFE	FINISHED FLOOR ELEVATION	VRF	VARIABLE REFRIGERANT FLOW
FLA	FULL LOAD AMPS	WB, Twb	WET BULB (TEMPERATURE)
FOB	FLAT ON BOTTOM		
FOT	FLAT ON TOP		
FFM	FEET PER MINUTE		
FSD	FIRE SMOKE DAMPER		
FT	FOOT, FEET		
FT WG	FEET WATER GAUGE		
FV	FLUE VENT		
GA	GAGE		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		
GWH	GAS WATER HEATER		
H	HEIGHT		
HPS	HIGH PRESSURE STEAM		
HR	HOUR		

MISCELLANEOUS LEGEND:

	SUPPLY AIR DIFFUSER FLOW ARROWS INDICATE AIR PATTERN. NO FLOW ARROWS SHOWN INDICATES 4-WAY PATTERN.
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	THERMOSTAT
	HUMIDISTAT
	THERMOSTAT/ HUMIDISTAT
	START/ STOP SWITCH
	DUCT SMOKE DETECTOR
	FIRESTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	AIR QUALITY SENSOR
	120 VOLT STAND BY POWER JUNCTION BOX PROVIDED BY THE ELECTRICAL CONTRACTOR. JUNCTION BOX IS DEDICATED FOR USE BY THE CONTROLS CONTRACTOR.
	POINT OF RECONNECTION OR EXTENT OF DEMOLITION
	VARIABLE FREQUENCY DRIVE
	CONTROL WIRING
	ROUND OR DIAMETER
	OVAL OR FLAT OVAL
	SERVICE CLEARANCE
	ELEVATION CROSS REFERENCE
AIR DISTRIBUTION DEVICE TAGS	
	DIFFUSER TYPE
	DIFFUSER SUB-TYPE
	AIRFLOW (CFM), "PLENUM", OR "TRANSFER"
	FLOW ARROW
NORTH ARROW	
	NORTH

DUCTWORK LEGEND:

	ROUND DUCT. DIAMETER INDICATED IN INCHES.
	FLAT OVAL DUCT. SIZE INDICATED IN INCHES, FIRST NUMBER IS SIDE SHOWN
	90 DEGREE DUCT ELBOW WITH TURNING VANES
	RADIUS DUCT ELBOW - ROUND OR RECTANGULAR (MIN. 1.5 RADIUS UNLESS OTHERWISE NOTED)
	RECTANGULAR DUCT BRANCH TAKE-OFF WITH 45 DEGREE BRANCH INLET
	SQUARE TO ROUND DUCT BRANCH TAKE-OFF WITH 45 DEGREE BRANCH INLET
	ROUND DUCT BRANCH TAKE-OFF FROM RECTANGULAR MAIN WITH CONICAL TAP
	DUCT SIZE TRANSITION
	DUCT SIZE TRANSITION RECTANGULAR TO ROUND
	FLEXIBLE DUCT CONNECTION
	SUPPLY OR OUTSIDE AIR DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	IN-LINE 90 DEGREE RISE/DROP IN SUPPLY DUCT
	IN-LINE 90 DEGREE RISE/DROP IN RETURN DUCT
	IN-LINE 90 DEGREE RISE/DROP IN EXHAUST DUCT
	DUCT MOUNTED SMOKE DETECTOR
	VOLUME/BALANCING DAMPER (LABEL MAY BE OMITTED)
	BACKDRAFT DAMPER (COUNTER-BALANCED UNLESS OTHERWISE NOTED)
	DAMPER TYPE: M - MOTORIZED DAMPER (ELECTRIC)
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER



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John M. Adams FIRM
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MECHANICAL LEGEND, NOTES, AND ABBREVIATIONS

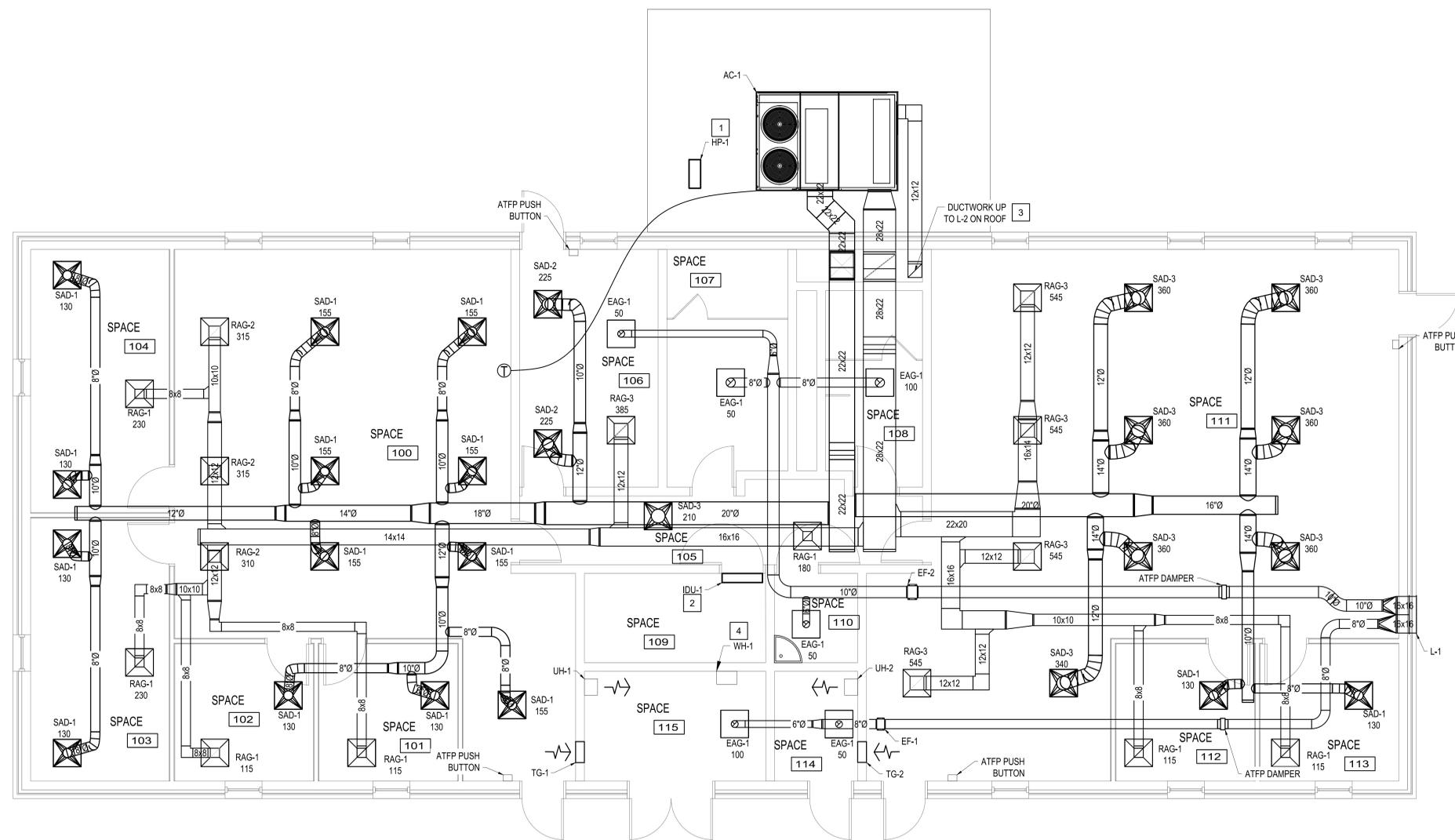
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KEYED NOTES

1. INSTALL NEW HEAT PUMP ON EQUIPMENT PAD. PROVIDE HEAT PUMP WITH MANUFACTURER PROVIDED LINE SET TO INDOOR DUCTLESS UNIT.
2. COORDINATE FINAL LOCATION WITH ELECTRICAL EQUIPMENT. ENSURE ALL NEC OFFSETS ARE MET. ROUTE CONDENSATE TO FLOOR DRAIN IN ROOM 111. SEE PLUMBING FOR LOCATION.
3. PROVIDE ATFP DAMPER IN VERTICAL DUCTWORK UP TO L-2 ON ROOF.
4. PROVIDE 3" FLUE THROUGH ROOF. SEE ARCHITECTURAL.

GENERAL NOTES

1. DUCTWORK TO BE ROUTED TO AVOID ALL STRUCTURAL ELEMENTS.



1 MECHNAICAL HVAC PLAN
SCALE: 1/4" = 1'-0"

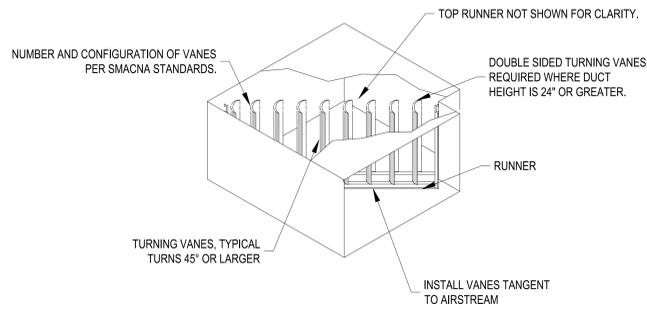
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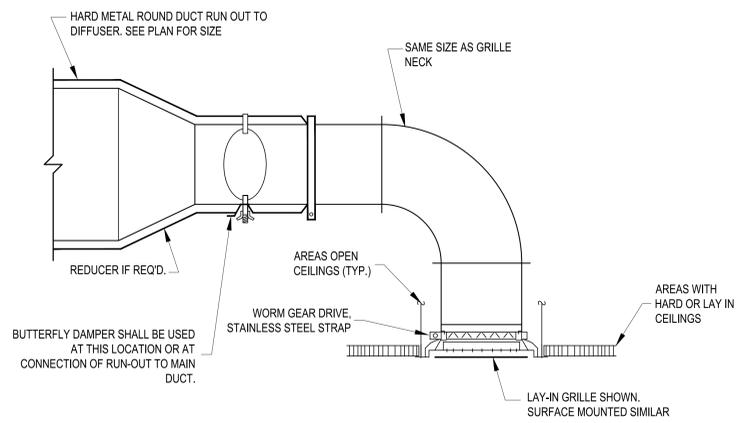
MECHANICAL HVAC PLAN

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
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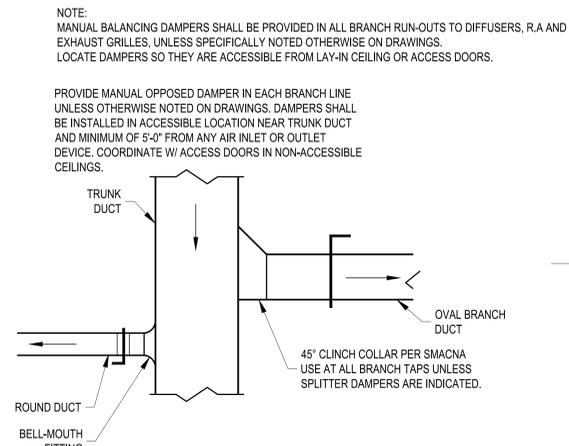




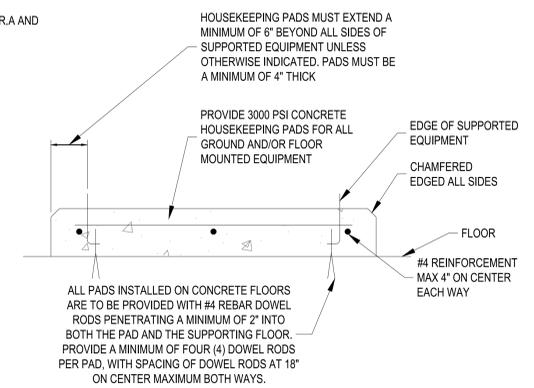
1 TURNING VANE DETAIL
M501 SCALE: N.T.S.



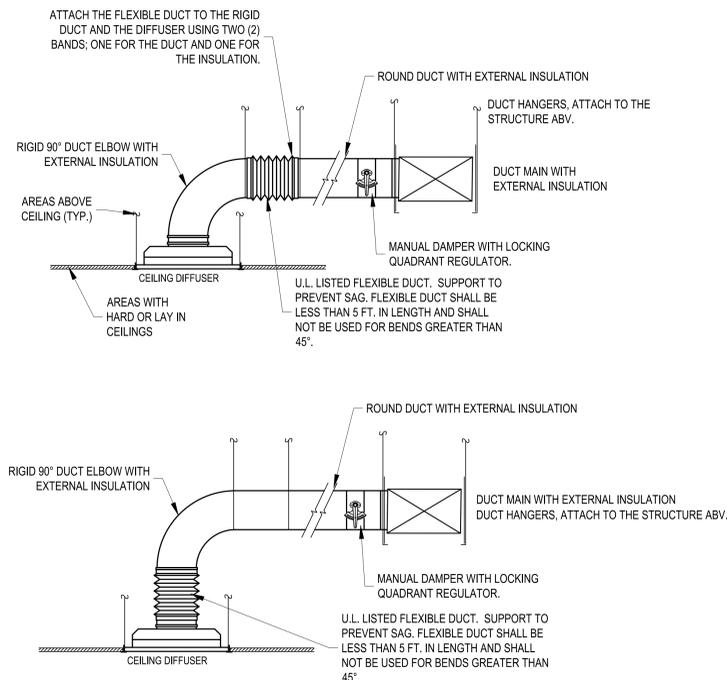
2 TYPICAL RETURN / EXHAUST GRILL CONNECTION
M501 SCALE: N.T.S.



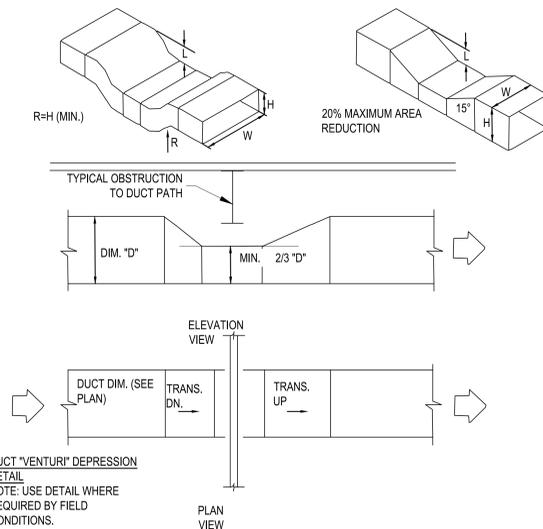
3 BRANCH DUCT TAP DETAIL
M501 SCALE: N.T.S.



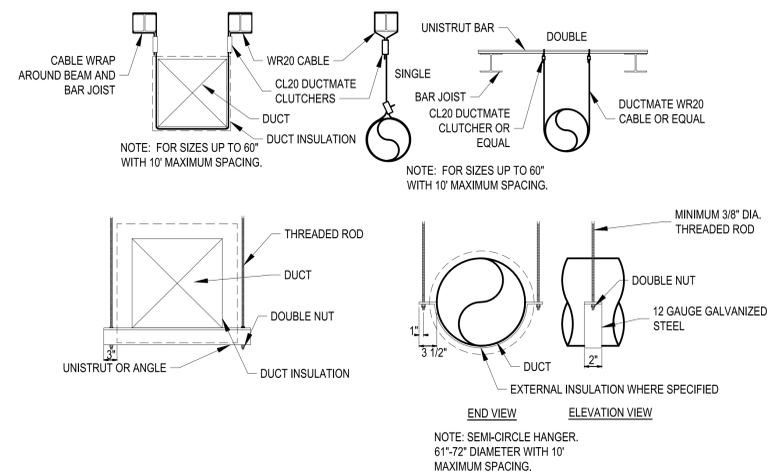
4 HOUSE KEEPING PAD DETAIL
M501 SCALE: N.T.S.



5 TYPICAL DIFFUSER CONNECTION DETAIL
M501 SCALE: N.T.S.



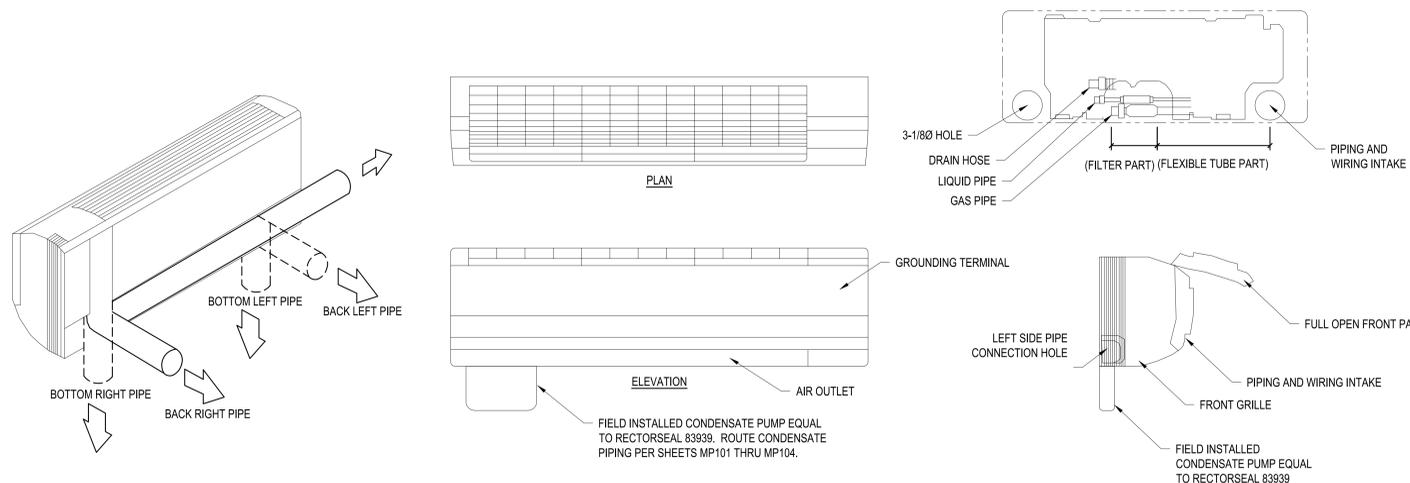
6 DUCT DEPRESSION FOR STRUCTURAL CONFLICTS DETAIL
M501 SCALE: N.T.S.



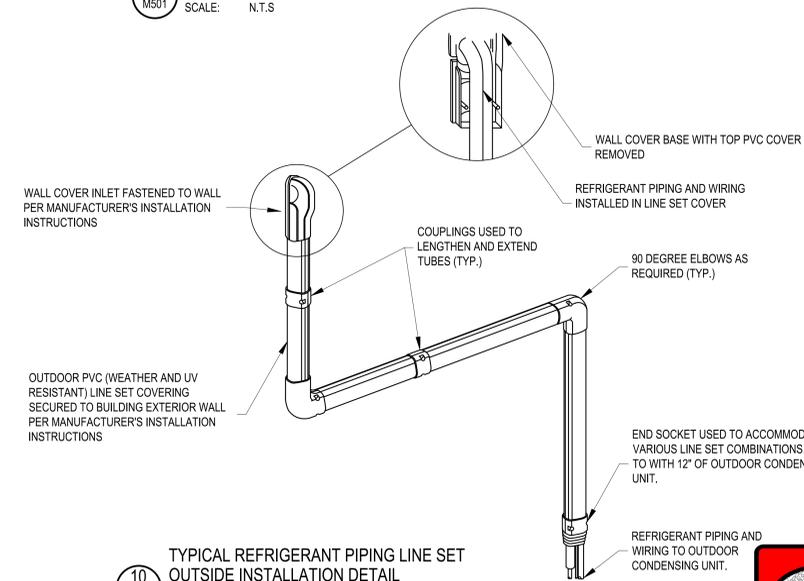
DUCT SIZE (IN.)	STRUT SIZE	ANGLE SIZE	ROD SIZE
61-72	1 5/8 X 1 5/8 X 12 GA	N/A	3/8
72-84	N/A	2 X 2 X 1/4	3/8
85-96	N/A	2 1/2 X 2 1/2 X 1/4	3/8
97-120	N/A	3 X 3 X 1/4	3/8

NOTE: 10' MAXIMUM SPACING.

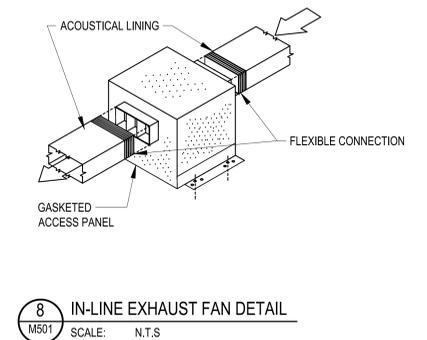
7 DUCT HANGER DETAILS
M501 SCALE: N.T.S.



9 DUCTLESS WALL MOUNTED UNIT
M501 SCALE: N.T.S.



10 TYPICAL REFRIGERANT PIPING LINE SET OUTSIDE INSTALLATION DETAIL
M501 SCALE: N.T.S.



8 IN-LINE EXHAUST FAN DETAIL
M501 SCALE: N.T.S.

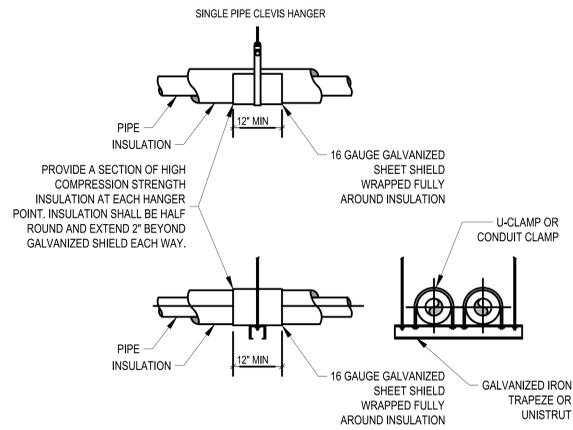
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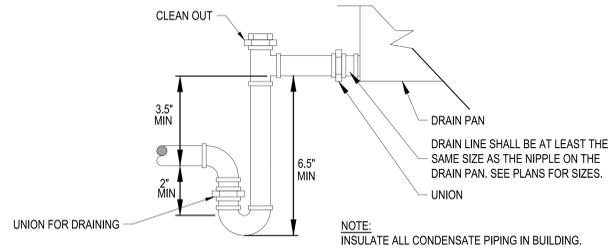
MECHANICAL DETAILS

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
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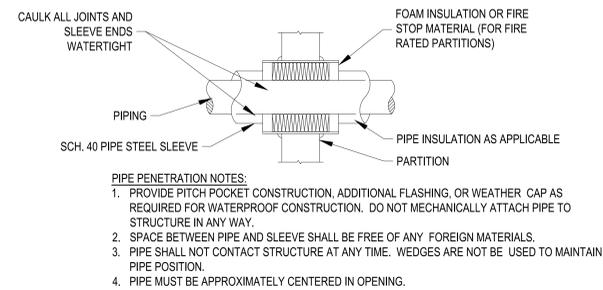




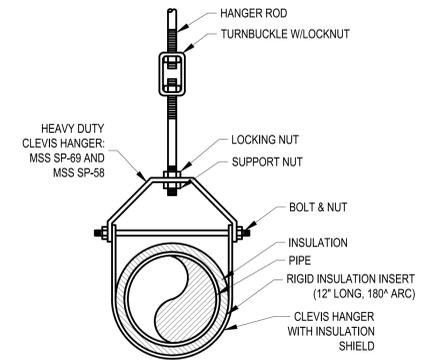
1 PIPE HANGER DETAILS
SCALE: N.T.S.



2 CONDENSATE DRAIN P-TRAP DETAIL
SCALE: N.T.S.



3 PIPE PENETRATION DETAIL
SCALE: N.T.S.



4 CLEVIS HANGER DETAIL
SCALE: N.T.S.

PACKAGE AIR CONDITIONING UNIT SYSTEM OPERATION:

UNIT SHALL BE PROVIDED WITH MICROPROCESSOR CONTROLLER THAT IS CAPABLE OF AT A MINIMUM MEETING ALL OF THE CONTROL FUNCTIONS LISTED IN THE SEQUENCE OF OPERATIONS. PROVIDE WITH SUPPLY AND RETURN AIR SMOKE DETECTORS TO INTERLOCK WITH THE FIRE ALARM CONTROL PANEL.

PACKAGE AIR CONDITIONING UNIT (AC-1) RUN CONDITIONS - REQUESTED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN A DISCHARGE AIR TEMPERATURE AS SCHEDULED
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A DISCHARGE AIR TEMPERATURE AS SCHEDULED

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

OPTIMAL START:

THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:

A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

SUPPLY FAN:

THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE SUPPLY FAN SHALL MODULATE TO MAINTAIN A USER ADJUSTABLE DUCT STATIC PRESSURE SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

DX COOLING:

THE CONTROLLER SHALL MEASURE THE SUPPLY AIR DEW POINT TEMPERATURE AND CONTROL THE COOLING SYSTEM TO MAINTAIN THE SUPPLY AIR DEWPOINT TEMPERATURE. THE VARIABLE SPEED COMPRESSOR SHALL MODULATE BASED ON COOLING LOAD. COOLING SHALL BE ENABLED WHENEVER:

- THE TEMPERATURE CONTROL IS ACTIVATED.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- THE UNIT IS IN THE VENTILATION MODE.
- AND THE HEATING IS NOT ACTIVE.

FREEZESTAT:

THE FREEZESTAT SHALL PROTECT THE UNIT FROM FREEZING.

HEATING COIL CONTROL:

HEATING SHALL BE ENABLED WHENEVER:

- MIXED AIR TEMPERATURE IS LESS THAN 55°F (ADJ.).
- UNIT IS IN THE VENTILATION MODE.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE COOLING IS NOT ACTIVE.

MIXED AIR DAMPER:

THE MIXED AIR DAMPERS SHALL BE OPEN WHENEVER OCCUPIED. THE OUTSIDE AIR DAMPERS SHALL CLOSE WHEN THE UNIT IS OFF OR WHEN AN ATPP PUSH BUTTON HAS BEEN ACTIVATED.

MIXED AIR TEMPERATURE:

THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 95°F (ADJ.).
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 35°F (ADJ.).

RETURN AIR TEMPERATURE:

THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL. ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

SUPPLY AIR TEMPERATURE:

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

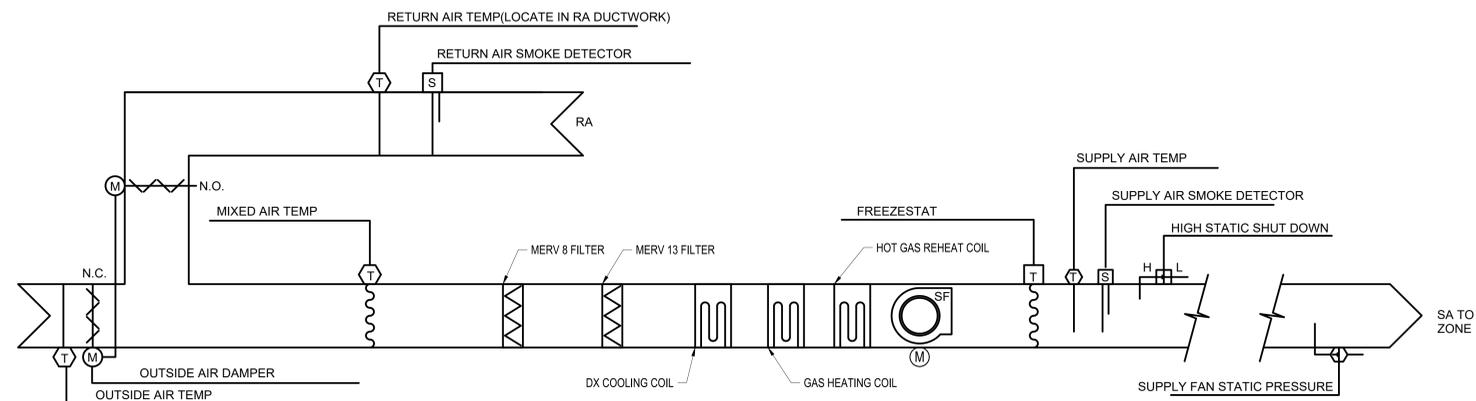
VENTILATION MODE:

DURING COOLING:

WHEN SPACE TEMPERATURE IS MET THE UNIT SHALL MODULATE THE HOT GAS REHEAT COIL TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 70 DEG F.

DURING HEATING:

WHEN THE SPACE TEMPERATURE IS MET THE UNIT SHALL MODULATE THE GAS FURNACE TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 70 DEG F.



5 AC-1 CONTROLS DIAGRAM
SCALE: N.T.S.

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MECHANICAL DETAILS AND CONTROLS DIAGRAM

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	S.M.E.	D.K.M.	F.E.J.	M502

EXHAUST FAN SCHEDULE																		
MARK	BASIS OF DESIGN	TYPE	LOCATION	FAN DATA						ELEC. DATA					CONTROL INTERLOCKS		OPER. WEIGHT (LBS)	REMARKS
				AIRFLOW CFM	S.P. IN.WC.	DRIVE	FAN TYPE	RPM	MAX SONES	POWER HP	VOLTS/PHASE	FLA	MCA	MOP	SWITCH	OTHER AS NOTED		
EF-1	GREENHECK BSQ-70	INLINE	ABOVE CEILING	150	1	BELT	CENT.	1818	14.2	1/4	208/3	2.4	3	15	NO	VARIABLE	80	SEE NOTES
EF-2	GREENHECK BSQ-80	INLINE	ABOVE CEILING	250	1	BELT	CENT.	1673	11.3	1/4	208/3	2.4	3	15	NO	VARIABLE	77	SEE NOTES

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

INDOOR DUCTLESS UNIT SCHEDULE (SERVED BY HP-1)											
MARK	TYPE	AIRFLOW (CFM)	COOLING EAT °F (DB/WB)	COOLING TOTAL CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	COND. SIZE (IN)	MAX DBA	ELECTRICAL VOLTS/PHASE	FLA	WEIGHT (LB)	REMARKS
IDU-1	WALL-MOUNTED	330	80/67	8,800	9,400	3/4	46	208/1	0.20	20	SEE NOTES

NOTES:
1. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. PROVIDE BALL VALVES FOR ISOLATION OF EACH PIECE OF EQUIPMENT/COMPONENT FROM SYSTEM.
3. PROVIDE WITH UNIT CONTROLLER THAT SHALL CONNECT TO THE EXISTING DDC SYSTEM FOR MONITORING.

LOUVER SCHEDULE													
MARK	DESCRIPTION	APPLICATION	WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (SF)	VOLUME (CFM)	PRESSURE DROP (IN WG)	FREE AREA VELOCITY (FPM)	BEGINNING POINT OF WATER PENETRATION, BPWP (FPM)	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	REMARKS
L-1	6" DRAINABLE	EXHAUST	32	16	6	1.3	400	0.01	306	1250	GREENHECK	ESD-635DE	SEE NOTES 1,2,3

NOTES:
1. PROVIDE LOUVER WITH ALUMINUM INSECT SCREEN.
2. INTAKE LOUVERS SHALL NOT BE SIZED FOR ANY MORE THAN 80% OF THE LOUVER MANUFACTURER'S BPWP RATING.
3. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

HEAT PUMP SCHEDULE (SERVING IDU-1)													
MARK	SYSTEM TYPE	NOMINAL SIZE (TON)	ARI SEER RATING	COOLING OUTDOOR AMBIENT TEMPERATURE (°F)	COMPRESSOR TYPE	RATED COOLING CAPACITY (BTU/H)	RATED HEATING CAPACITY (BTU/H)	REF. TYPE	ELECTRICAL			WEIGHT (LB)	REMARKS
									VOLTS/PHASE/HZ	MCA	MOCP		
HP-1	HEAT PUMP	0.75	17	95	INVERTER	8,800	9,400	R-410-A	208/1/60	6.95	15	53	SEE NOTES

NOTES:
1. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. DISCONNECT SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

PENTHOUSE LOUVER SCHEDULE											
MARK	APPLICATION	THROAT WIDTH (IN)	THROAT LENGTH (IN)	THROAT AREA (SF)	VOLUME (CFM)	PRESSURE DROP (IN WG)	THROAT VELOCITY (FPM)	MAXIMUM VELOCITY (FPM)	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	REMARKS
L-2	INTAKE	14	14	1	675	0.045	496	800	GREENHECK	WIH-14X14	SEE NOTES 1,2,3

NOTES:
1. PROVIDE LOUVER WITH ALUMINUM INSECT SCREEN.
2. INTAKE LOUVERS SHALL NOT BE SIZED FOR ANY MORE THAN 80% OF THE LOUVER MANUFACTURER'S BPWP RATING.
3. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

GRILLE, REGISTER AND DIFFUSER SCHEDULE										
MARK	TYPE	USE S/R/E	PANEL SIZE IN.	NECK SIZE IN.	MAX CFM	MAX PD IN. WC	FINISH	PATTERN	MAX. NOISE CRITERIA (NC)	REMARKS
SAD-2	CEILING MOUNTED	X	24X24	10Ø	300	0.025	OFF WHITE	4-WAY	10	ALL
SAD-3	CEILING MOUNTED	X	24X24	12Ø	425	0.025	OFF WHITE	4-WAY	10	ALL
RAG-1	CEILING MOUNTED	X	24X24	8X8	230	0.025	OFF WHITE	PERF.	10	ALL
RAG-2	CEILING MOUNTED	X	24X24	10X10	370	0.025	OFF WHITE	PERF.	10	ALL
RAG-3	CEILING MOUNTED	X	24X24	12X12	550	0.025	OFF WHITE	PERF.	10	ALL
EAG-1	CEILING MOUNTED	X	12X12	6Ø	110	0.025	OFF WHITE	PERF.	10	ALL
EAG-2	CEILING MOUNTED	X	24X24	8Ø	230	0.025	OFF WHITE	PERF.	10	ALL

NOTES:
1. SUBMIT FINISH/FRAME STYLE OF ALL DEVICES FOR REVIEW.
2. PROVIDE WITH ALUMINUM CONSTRUCTION.

PACKAGE AIR CONDITIONING UNIT SCHEDULE																			
MARK	LOCATION	BASIS OF DESIGN	SUPPLY FAN			COOLING CAPACITY				NATURAL GAS HEAT			PRE FILTER	FINAL FILTER	VOLTS/PHASE	OPER. WEIGHT (LBS)	MCA	MOP	REMARKS
			SUPPLY AIR (CFM)	ESP (IN WC)	MOTOR HP	EDB (DEG F)	EWB (DEG F)	TOTAL (MBH)	SENSIBLE (MBH)	INPUT (MBH)	OUTPUT (MBH)	STAGES							
AC-1	OUTSIDE	TRANE YHK180A3SBH	5280	1.5	3	76.2	65.2	166.23	115	400	324	10:1	MERV 8	MERV 13	208/3	2171	79	110	SEE NOTES

NOTES:
1. CASED COILS SHALL HAVE TXV AND FOIL FACE INSULATION. MOTOR SHALL BE ECM.
2. 5 YEAR PARTS WARRANTY.
3. PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS. COORDINATE WITH ELECTRICAL AND FIRE ALARM.
4. PROVIDE WITH HOT GAS REHEAT.

ELECTRIC UNIT HEATER SCHEDULE							
MARK	LOCATION	BASIS OF DESIGN	WATTS	VOLTS	AMPS	WEIGHT (LBS)	REMARKS
UH-1	115	BROAN 174	1,500	120	12.5	7.5	SEE NOTES
UH-2	114	BROAN 174	1,500	120	12.5	7.5	SEE NOTES

NOTES:
1. HEATER WILL BE CONTROLLED UNIT MOUNTED ADJUSTABLE THERMOSTAT.
2. INSTALL HEATER PER MANUFACTURER'S INSTRUCTIONS.

TRANSFER GRILLE SCHEDULE							
MARK	BASIS OF DESIGN	SERVES	NECK SIZE IN.	CFM	FINISH	MAX. NOISE CRITERIA (NC)	REMARKS
TG-1	GREENHECK XG-DGLP	115	16X8	100	WHITE	10	SEE NOTES
TG-2	GREENHECK XG-DGLP	114	16X8	50	WHITE	10	SEE NOTES

NOTES:
1. SUBMIT FINISH/FRAME STYLE OFF ALL DEVICES FOR REVIEW.
2. PROVIDE WITH ALUMINUM CONSTRUCTION.

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MECHANICAL SCHEDULES					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
12/13/2024	AS SHOWN	S.M.E.	D.K.M.	F.E.J.	M601

ABBREVIATIONS			
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
A / AMP	AMPERE(S)	HP	HORSE POWER ; HEAT PUMP
ACCU	AIR COOLED CONDENSING UNIT	IMC	INTERMEDIATE METAL CONDUIT
AC	ALTERNATING CURRENT ; AIR COMPRESSOR	K	KILO
AC	AIR CURTAIN ; ABOVE COUNTER/ BACKSPLASH	KAIC	THOUSAND AMPERE INTERRUPT CAPACITY
AF	AMPERE FRAME	KCMIL	THOUSANDS OF CIRCULAR MILS
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT-AMPERES
AHU	AIR HANDLING UNIT	KW	KILOWATT
AIC	AMPERE INTERRUPT CAPACITY	KWHR	KILOWATT - HOUR
AL	ALUMINUM	L	LENGTH
AT	AMP TRIP	LAN	LOCAL AREA NETWORK
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	MAX	MAXIMUM
AUX	AUXILIARY	MCA	MINIMUM CIRCUIT AMPACITY
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BRKR	BREAKER	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MGB	MAIN GROUND BAR
C	CONDUIT	MGC	MAIN GROUNDING CONDUCTOR
CAT	CATEGORY	MH	MANHOLE / MOUNTING HEIGHT
CB	CIRCUIT BREAKER	MIN	MINIMUM
CCT	CORRELATED COLOR TEMPERATURE	MLO	MAIN LUGS ONLY
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED
CFCI	CONTRACTOR FURNISHED/ INSTALLED	N	NEUTRAL
CKT	CIRCUIT	NAT	NATIONAL
CLG	CEILING	NEC	NATIONAL ELEC CODE
CMH	COMMUNICATIONS MANHOLE	NEMA	NATIONAL ELEC MANUFACTURER'S ASSOCIATION
COMM	COMMUNICATIONS	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CP	CONDENSATE PUMP	NC	NORMALLY CLOSED
CPT	CONTROL POWER TRANSFORMER	NESC	NATIONAL ELEC SAFETY CODE
CRI	COLOR RENDERING INDEX	NL	NIGHT LIGHT
CT	CURRENT TRANSFORMER ; COOLING TOWER	NO	NORMALLY OPEN
CU	COPPER ; CONDENSING UNIT	NTS	NOT TO SCALE
D	DEPTH	P	POLE(S)
DC	DIRECT CURRENT	PF	POWER FACTOR
DISC	DISCONNECT	PH	PHASE
DIST	DISTRIBUTION	PNL	PANEL - PANELBOARD
DPST	DOUBLE POLE SINGLE THROW	PTAC	PACKAGED THRU-WALL AIR CONDITIONER
DPDT	DOUBLE POLE DOUBLE THROW	PVC	POLYVINYL CHLORIDE
EC	EMPTY CONDUIT	QTY	QUANTITY
EF	EXHAUST FAN	REC / RECP	RECEPTACLE
ELEC	ELECTRICAL	RMC	RIGID METAL CONDUIT
EMER	EMERGENCY	RTU	ROOF TOP UNIT
EMH	ELECTRICAL MANHOLE	RVNR	REDUCED VOLTAGE NON-REVERSING
EMT	ELECTRICAL METALLIC TUBING	SA	SURGE ARRESTORS
EPA	EFFECTIVE PROJECTED AREA	SCCR	SHORT CIRCUIT CURRENT RATING
EQUIP	EQUIPMENT	SF	SUPPLY FAN
ETC.	ETCETERA	SPD	SURGE PROTECTIVE DEVICE
EX / EXIST	EXISTING	SPDT	SINGLE POLE DOUBLE THROW
EUH	ELECTRIC UNIT HEATER	SPEC	SPECIFICATIONS
EXP	EXPLOSION PROOF	SPST	SINGLE POLE SINGLE THROW
EWH / EWC	ELECTRIC WATER HEATER / COOLER	SWBD	SWITCHBOARD
F	FUSE	SWGR	SWITCHGEAR
FACP	FIRE ALARM CONTROL PANEL	TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
FCU	FAN COIL UNIT	TOL	THERMAL OVERLOAD
FLEX	FLEXIBLE	TYP	TYPICAL
G / GND	GROUND	UH	UNIT HEATER
GFGI	GOVERNMENT FURNISHED / INSTALLED	UOI	UNLESS OTHERWISE INDICATED
GFI / GFCI	GROUND FAULT (CIRCUIT) INTERRUPTER	UL	UNDERWRITERS LABORATORY
GRS	GALVANIZED RIGID STEEL	W	WATTS ; WIDTH
GUH	GAS UNIT HEATER	WP	WEATHERPROOF
GWH	GAS WATER HEATER	XFMR	TRANSFORMER
H / HT	HEIGHT	Z	IMPEDANCE
HOA	HAND-OFF AUTOMATIC	---	ABBREVIATIONS ABOVE ARE FOR ELECTRICAL SHEETS ONLY. NOT ALL MAY BE USED.

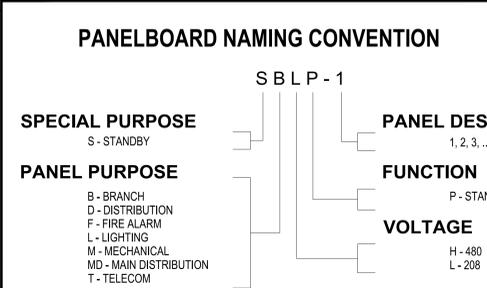
GENERAL SYMBOLS LEGEND <small>(NOT ALL SYMBOLS MAY APPLY, TYP.)</small>	
SYMBOL / KEY	DESCRIPTION
99	KEY NOTE DESIGNATION
9	REVISION TAG DESIGNATION
99	TOP DESIGNATION IS SECTION DESIGNATION
99	BOTTOM DESIGNATION IS SECTION SHEET LOCATION (STANDARD SYMBOL SCALED DOWN FOR LEGEND)
99	TOP DESIGNATION IS PLAN / ENLARGED PLAN / DETAIL NUMBER
99	BOTTOM DESIGNATION IS SHEET LOCATION (STANDARD SYMBOL SCALED DOWN FOR LEGEND)
99	NOTE: ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 WIRE #12AWG CIRCUIT WITH A #12AWG GND. A GREATER NUMBER OF WIRES IS INDICATED AS FOLLOWS: 4 WIRE, 2 CIRCUITS & GROUND (LONGER SLASH INDICATES NEUTRAL) 6 WIRE, 3 CIRCUITS & GROUND, ETC.(WIRING LARGER THAN #10AWG SHALL BE AS NOTED)
LA1:13	INDICATES #10 GROUND CONDUCTOR UOI (DOUBLE TICK/SLASH INDICATES ISOLATED GROUND)
LA1:13	PANELBOARD AND CIRCUIT DESIGNATION
LA1:13	RACEWAY CONCEALED IN WALL OR CEILING OR EXPOSED ON STRUCTURE AS REQUIRED
LA1:13	CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).
LA1:13	HOMERUN TO PANELBOARD - LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT
LA1:13	TAG STYLE ANNOTATION: ELEC EQUIP DESIGNATION (PANELBOARDS, XFMRs, DIST BOARDS, ETC.)
LA1:13	TAG STYLE ANNOTATION: CIRCUIT DESIGNATION, POINT TOWARD ASSOCIATED BRANCH/DIST PANEL.
LA1:13	TAG STYLE ANNOTATION: ELECTRICALLY POWERED EQUIPMENT (PROVIDED BY OTHERS)
LA1:13	TAG STYLE ANNOTATION: ELECTRICALLY POWERED MECHANICAL/PLUMBING EQUIPMENT (RE: MECHANICAL)

POWER OUTLET AND COMMUNICATIONS LEGEND	
SYMBOL / KEY	DESCRIPTION
99	DUPLEX RECEPTACLE, 20A, 120V, MH = 18" AFF UOI
99	TWO 20A, 120V DUPLEX RECEPTACLES MTD. IN A TWO GANG BOX, MH=18" AFF UOI
99	DUPLEX RECEPTACLE, 20A, 120V, GROUND FAULT INTERRUPTING, MH=18" AFF UOI
99	DUPLEX RECEPTACLE, 20A, 120V, GROUND FAULT INTERRUPT, WP WHILE IN USE COVER, MH=18" AFF UOI
99	DATA OUTLET WITH 3/4" C. STUBBED 6" ABOVE CLG OR TO JOIST, MH=18" AFF UOI
99	DATA OUTLET WITH 3/4" C. STUBBED OUT, RECESSED, CEILING MOUNTED
99	CABINET OR BACKBOARD

LIGHTING AND SWITCHING LEGEND			
SYMBOL / KEY	DESCRIPTION	SYMBOL / KEY	DESCRIPTION
99	LIGHT FIXTURE, RECESSED, PENDANT OR SURFACE MTD.	99	EXIT LUMINAIRE, WALL OR CEILING MTD. ARROWS INDICATE DIRECTION, SHADING INDICATES LIGHTED FACES
99	LIGHT FIXTURE, STRIP LUMINAIRE, RECESSED, PENDANT, OR SURFACE MTD.	99	EMERGENCY FLOODLIGHT W/ BATTERY BACKUP
99	LIGHT FIXTURE, RECESSED TYPE DOWNLIGHT, DIRECTIONAL AS INDICATED.	99	EMERGENCY FLOODLIGHT REMOTE HEAD LIGHT TRACK, NUMBER OF LUMINAIRES AS SHOWN.
99	LIGHT FIXTURE, PENDANT OR SURFACE MTD.	99	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT, TO INCLUDE BATTERY BACK-UP, GENERATOR, INVERTER, ETC. SEE PLANS
99	LIGHT FIXTURE, WALL MTD.	99	UPPERCASE LETTER INDICATES LUMINAIRE TYPE, LOWERCASE LETTER INDICATES CONTROLS/ SWITCH SYSTEM.
99	POLE MOUNTED LIGHT FIXTURE, NUMBER OF HEADS AS INDICATED.	99	TIME CLOCK
\$	SWITCH (* = TYPE)	99	VACANCY SENSOR
\$	SINGLE POLE SWITCH	99	OCCUPANCY SENSOR
\$2	DOUBLE POLE	99	PHOTOELECTRIC SWITCH
\$3	THREE WAY	99	LOCAL CONTACTOR
\$T	TIMER SWITCH	99	SWITCH W/ THERMAL OVERLOAD SERVING MOTOR
\$VS	WALL BOX VACANCY SENSOR		
\$OS	WALL BOX OCCUPANCY SENSOR		
\$D	DIMMER		
\$a	LOWERCASE LETTER INDICATES EQUIPMENT CONTROLLED		

GROUNDING, AND LIGHTNING PROTECTION LEGEND	
SYMBOL / KEY	DESCRIPTION
AC	ROOF CONDUCTOR - 192KCMILS W/ MIN 13 AWG STRANDS >= 190LBS/FT
DC	DOWN CONDUCTOR
MGC	MAIN GROUNDING CONDUCTOR
G	BLUNT TIP AIR TERMINAL
G	COPPER CLAD GROUND ROD, 10', 3/4" MIN DIAMETER.
IVWX	INSPECTION/ TEST WELL.

ONE-LINE DIAGRAM, SCHEDULE, AND DISTRIBUTION LEGEND	
SYMBOL / KEY	DESCRIPTION
####	FEEDER KEY
99	GROUND
99	CURRENT XFMR
#	CONTINUATION, UPSTREAM LABEL
M	METER
SPD	SURGE PROTECTIVE DEVICE
99	PANELBOARD (PLAN VIEW)
99	MOTOR
99	JUNCTION BOX
99	JUNCTION BOX FLOOR MOUNTED
99	PULL BOX
99	LOCAL DISCONNECT
99	LOCAL DISCONNECT W/ OCP
99	VARIABLE FREQUENCY DRIVE
99	LOCAL MOTOR STARTER (* = TYPE)
99	LOCAL COMBINATION MOTOR STARTER (* = TYPE) (2S, TWO SPEED) (RV, REDUCED VOLTAGE) (FV/RV/NR, FULL VOLTAGE REVERSING/NON-REVERSING)
99	PANELBOARD (ONE-LINE)
99	TRANSFER SWITCH (* = TYPE) (ATS: AUTOMATIC) (MTS: MANUAL)



GENERAL PROJECT NOTES:

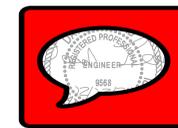
- THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION. INSTALLATION OF ELECTRICAL WORK SHALL BE COORDINATED WITH OTHER TRADES BEFORE ANY INSTALLATION IS DONE. CONDUIT AND DEVICES SHOWN ON PLANS ARE SCHEMATIC.
- ALL WORK SHALL CONFORM TO APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS FOR QUALITY OF MATERIALS AND WORKMANSHIP, AS WELL AS, ALL REQUIREMENTS IN THESE DRAWINGS AND SPECIFICATIONS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE CONTACTING OFFICER'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROTECT ANY EXISTING, IN-PLACE, AND NEW WORK.
- ONCE ON SITE, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL VERIFY ALL NEW AND EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE C.O. IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL PLAN WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.
- MINIMUM RACEWAY SIZE SHALL BE 3/4-IN. INCREASE RACEWAY SIZE AS REQUIRED TO LIMIT RACEWAY FILL RATIO TO LESS THAN 40% FULL.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND CONDUCTOR, SIZE PER NATIONAL ELECTRICAL CODE, OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT. MULTIPLE BRANCH CIRCUITS IN ONE RACEWAY REQUIRE ONLY ONE GROUND CONDUCTOR.
- ALL SAFETY DISCONNECTS SHALL BE HEAVY DUTY 240V NEMA 3R NON-FUSED TYPE.
- REFER TO ONE-LINE DIAGRAMS, SCHEDULES, AND TABLES FOR CONDUCTOR AND CONDUIT SIZES NOT SHOWN ON PLANS.
- PROVIDE LABELS ON ALL RECEPTACLES, WALL MOUNTED LIGHT SWITCHES/OCCUPANCY SENSORS AND JUNCTION BOXES INDICATING THE SOURCE PANEL AND CIRCUIT(S). TEXT SHALL BE BLACK 1/4-IN IN HEIGHT PRINTED ON A CLEAR LABEL. HANDWRITTEN LABELS ARE NOT PERMITTED.
- COORDINATE WALL, FLOOR AND ROOF PENETRATIONS WITH THE CONTRACTING OFFICER.
- SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT ELECTRICAL EQUIPMENT FROM MAIN STRUCTURE SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- EXACT LOCATIONS OF PANELBOARDS, DISCONNECTS, TIMERS, AND SWITCHES SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND MECHANICAL EQUIPMENT. MOUNT DISCONNECTS AND SWITCHES MINIMUM 48" AFF. MOUNT TIMERS MINIMUM 40" AFF.
- SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS. HOWEVER, ITEMS SHOWN ON DRAWING BUT NOT IN THE SPECIFICATIONS ARE REQUIRED WITHIN THE PROJECT SCOPE. IN ADDITION, SPECIFIC ITEMS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS IN CASES WHERE THE SPECIFICATION HAS OPTIONS.
- ALL EQUIPMENT INSTALLED IN THIS PROJECT SHALL COMPLY WITH THE "BUY AMERICAN ACT". BASIS OF DESIGN SHOWN ON SCHEDULES IS TO ESTABLISH A STANDARD OF QUALITY, NOT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT FROM ANOTHER MANUFACTURER IS ACCEPTABLE.
- PROVIDE WEATHERPROOF COVERS FOR ALL SWITCHES.
- THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, CIVIL DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATION OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE. REFER TO MECHANICAL DRAWINGS FOR PIPES, DUCTS, AND MECHANICAL EQUIPMENT.

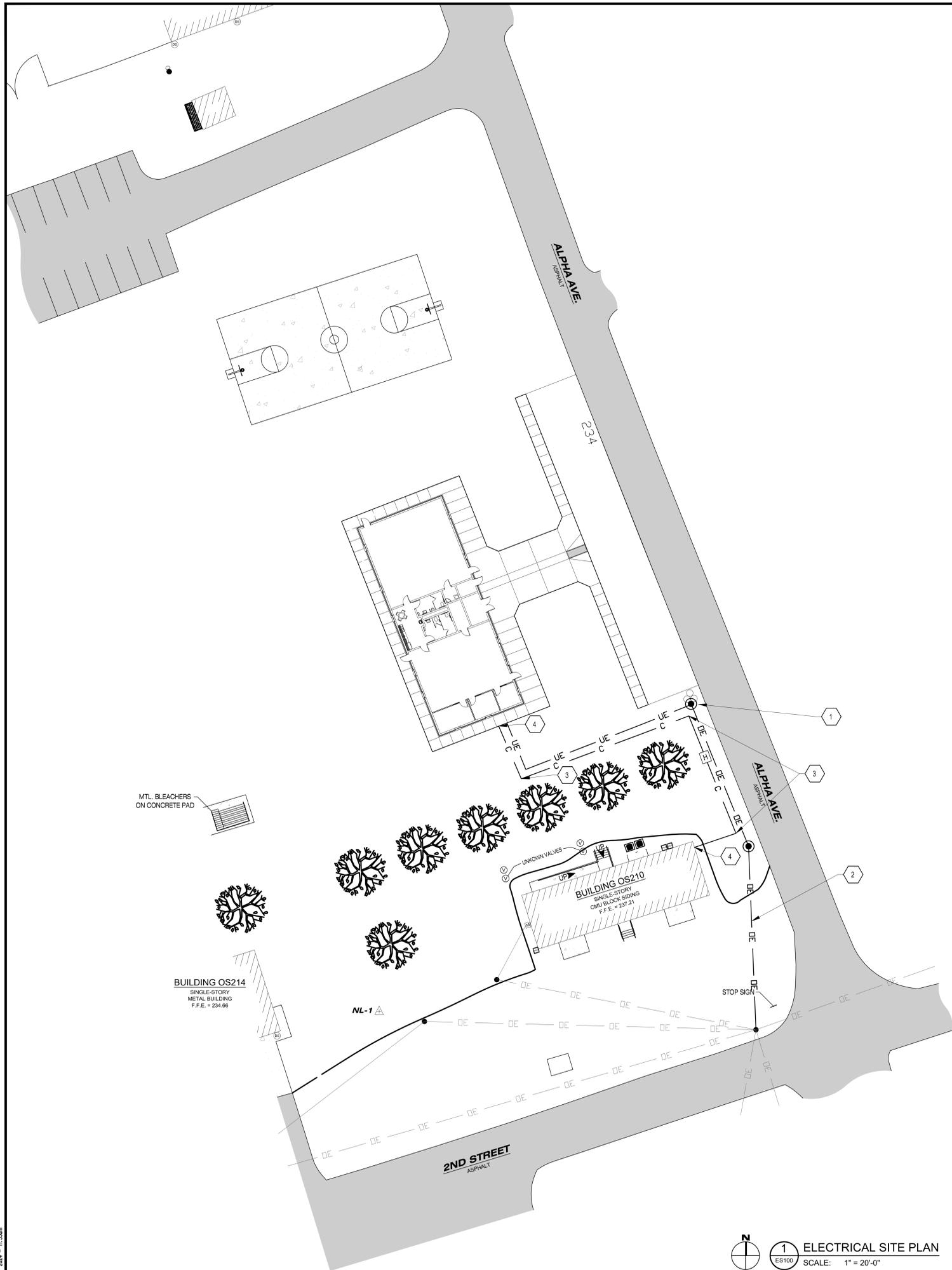
PN: 28250205
BATTALION HQ BUILDING TT S233
CAMP MCCAIN, GRENADA, MISSISSIPPI

THE Johnson . M Adams FIRM P.A.
ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI - (662) 455-4943

ELECTRICAL LEGEND

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E001





GENERAL NOTES

1. REFER TO SYMBOL LEGEND AND GENERAL NOTES ON E001 FOR ADDITIONAL INFORMATION.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING OR ORDERING MATERIAL, NOTE ANY DISCREPANCIES TO THE CONTRACTING OFFICER.
3. EXISTING UNDERGROUND INSTALLATIONS, SUCH AS WATER MAINS, GAS MAINS, SEWER, TELEPHONE LINES, FIBER OPTICS, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK AREA ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS THEREOF AND IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND INSTALLATIONS, INCLUDING SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATING OR TRENCHING.
4. OVERHEAD ELECTRICAL LINES MAY ALSO SUPPORT OTHER OVERHEAD UTILITIES.
5. CONTRACTOR MUST COORDINATE ROUTING OF PRIMARY AND LOCATION OF POLES AND SERVICE TRANSFORMER WITH ELECTRICAL ENERGY. CONTRACTOR IS RESPONSIBLE FOR COST INCURRED BY ELECTRICAL UTILITY FOR MODIFICATIONS TO PRIMARY DISTRIBUTION AND INSTALLATION OF BUILDING SERVICE AND METERING.
6. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL OF THE NEW UTILITIES AND SERVICE.
7. REFER TO C102 FOR OTHER UTILITIES.
8. REFER TO 8/E500 FOR TRENCH DETAIL.
9. REFER TO 10/E501 FOR HANDHOLE DETAIL.

KEYED NOTES

- 1 PROVIDE NEW POWER POLE WITH NEW POLE MOUNTED TRANSFORMERS PROVIDING POWER TO NEW UNDERGROUND SERVICE FEEDERS. REFER TO DETAIL 10/E500. COORDINATE WITH LOCAL UTILITY.
- 2 MINIMUM OVERHEAD CLEARANCE OF ELECTRICAL CROSSING IS 20'. POLES SHOULD BE AT LEAST 25' TALL, (TYP.).
- 3 LONG SWEEP OF 4", 90 DEGREES
- 4 REFER TO 4/T100 FOR BUILDING PENETRATION DETAIL.

LEGEND

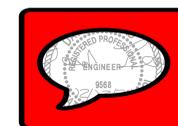
NEW		EXISTING	
— UE —	UNDERGROUND ELECTRICAL	— OE —	OVERHEAD ELECTRICAL
— OE —	OVERHEAD ELECTRICAL	— OE —	OVERHEAD ELECTRICAL
●	POWER POLE	●	POWER POLE
— C —	UNDERGROUND COMMUNICATION LINES		
[H]	HANDHOLE		

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 Date: 11/22/24 11:33am

1 ELECTRICAL SITE PLAN
 ES100 SCALE: 1" = 20'-0"

PN: 28250205
 BATTALION HQ BUILDING TT S233
 CAMP MCCAIN, GRENADA, MISSISSIPPI

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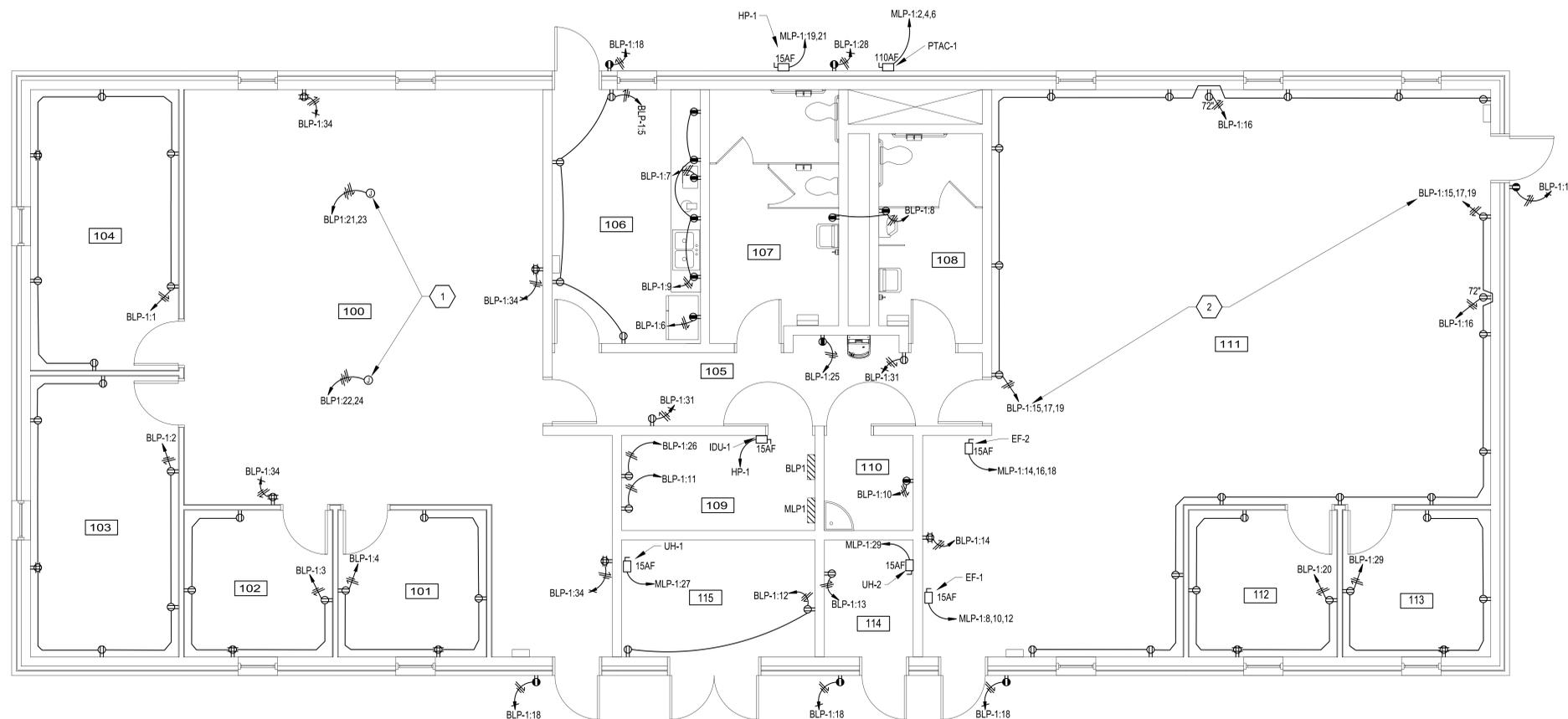
ELECTRICAL SITE PLAN						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	ES100	

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES AND SYMBOL LIST.
2. PROVIDE CONNECTION TO HVAC EQUIPMENT. PROVIDE STARTERS, VFD, AND/OR DISCONNECTS AS REQ'D. EXHAUST FANS SHALL BE CONTROLLED PER MECH DWGS. PROVIDE DUCT DETECTORS IN ALL HVAC EQUIPMENT AS REQ'D.
3. PROVIDE CONDUIT SYSTEM FOR MECHANICAL CONTROLS AS REQ'D. COORDINATE WITH MECHANICAL INSTALLER PRIOR TO ROUGH IN.
4. REFER TO 4/E500 FOR RECEPTACLE DETAIL.
5. CIRCUITRY IN A STRAIGHT LINE INDICATES WIREMOLD.

KEYED NOTES

- 1 PROVIDE 25' OF 12 AWG CABLE FOR EACH JUNCTION BOX CIRCUIT.
- 2 ALTERNATE CIRCUITS 15, 17, and 19.



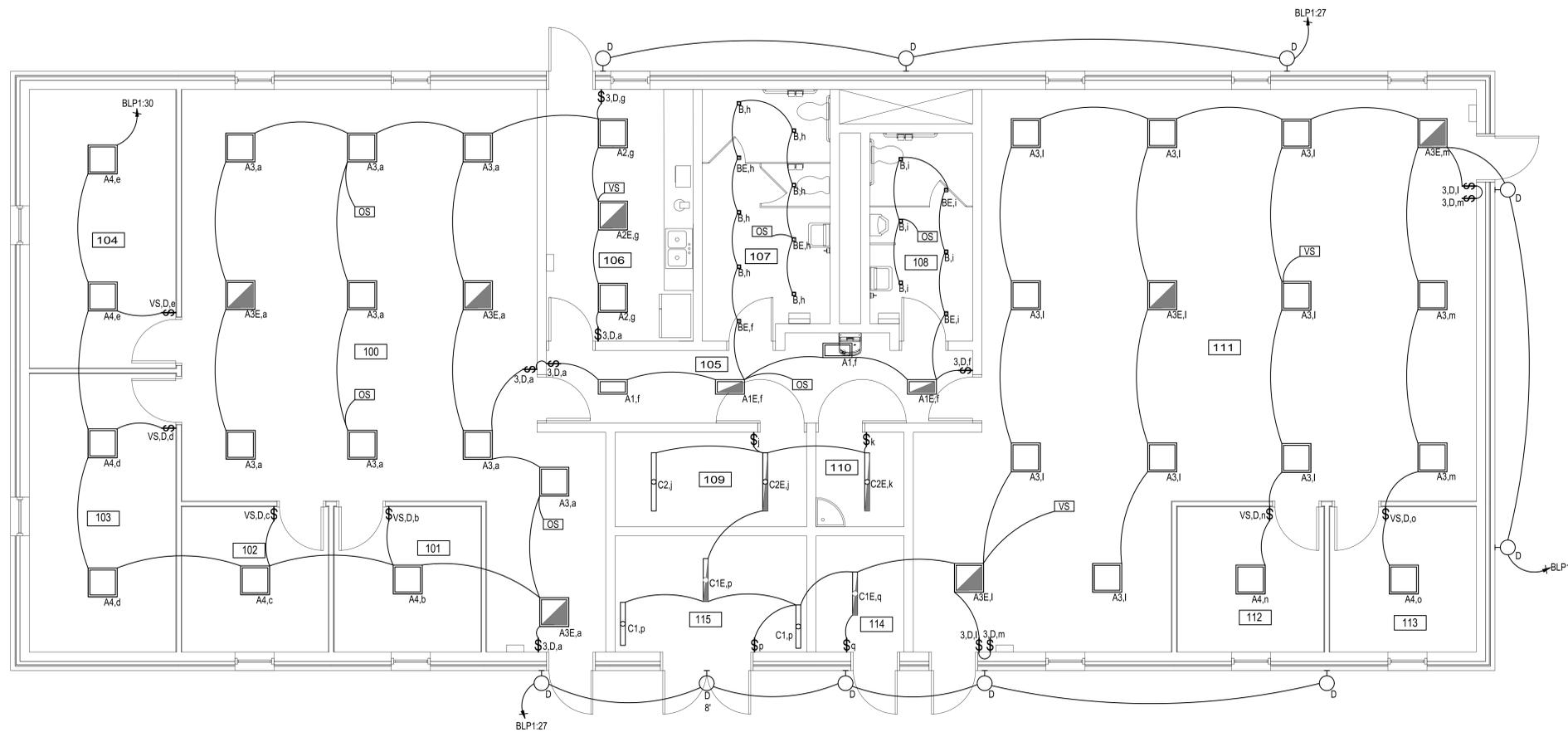
1 POWER PLAN
E100 SCALE: 1/4" = 1'-0"



		PN: 28250205			
		BATTALION HQ BUILDING TT S233 CAMP MCCAIN, GRENADA, MISSISSIPPI			
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POWER PLAN					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E100

GENERAL NOTES

- REFER TO E001 FOR GENERAL NOTES AND SYMBOLS LIST.
- BATTERY UNITS SHALL BE CONNECTED TO SAME CCT AS LIGHTING OF AREA SERVED. PROVIDE CB LOCK-ON DEVICE FOR ALL CCTS SERVING BATTERY UNITS. ALL CIRCUITS SERVING BATTERY UNITS SHALL BE CLEARLY IDENTIFIED IN PANELBOARD DIRECTORY.
- FOR LUMINAIRES, VERIFY QUANTITY, LOCATION, MOUNTING, AND TYPE WITH ARCHITECT.
- LIGHTING FIXTURES SHALL BE LABELED WITH MAX LAMP WATTAGE PER ARCHITECT'S DRAWINGS TO MEET ENERGY CODE.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOELECTRIC SENSORS, PROVIDE PROGRAMMING PER OWNER'S REQUIREMENTS.
- ALL LIGHTING NOT CONTROLLED BY OCCUPANCY SENSORS SHALL BE ABLE TO REDUCED BY MINIMUM 50% REDUCTION.



1 LIGHTING PLAN
 EL100 SCALE: 1/4" = 1'-0"

LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION	SOURCE			LUMENS	VOLTAGE	TOTAL VA	MANUFACTURER		MOUNTING
		TYPE	CCT(K)	CRI				BASIS OF DESIGN		
							NAME	CATALOG SERIES		
A1	1'x2'	LED	3500.00	82.00	1000.00	120-277	8.00	LITHONIA	BLT2_10L_SDSM_LP835	RECESSED
A2	2'x2'	LED	3500.00	82.00	2000.00	120-277	18.00	LITHONIA	2BLT2_20L_SDSM_LP835	RECESSED
A3	2'x2'	LED	3500.00	82.00	3300.00	120-277	31.00	LITHONIA	2BLT2_33LHE_SDSM_LP835	RECESSED
A4	2'x2'	LED	3500.00	82.00	4000.00	120-277	39.00	LITHONIA	2BLT2_40LHE_SDSM_LP835	RECESSED
B	3"x3"	LED	3500.00	80.00	2000.00	120-277	20.00	ACULUX	AX3SQ_D_20LM_24D_3SQDBV	RECESSED
C1	36" Long	LED	3500.00	80.00	2250.00	120-277	22.00	LITHONIA	CLX_L36_2250LM_SEF_FDL	SURFACE
C2	48" Long	LED	3500.00	80.00	3000.00	120-277	25.00	LITHONIA	CLX_L48_3000LM_HEF_FDL	SURFACE
D	EXTERIOR LIGHT	LED	4000.00	80.00	1500.00	120-277	11.00	LITHONIA	ARC2_LED_P1_40K_MVOLT_E8WC	7' 4" AFF

GENERAL NOTES:
 A PRIOR TO ORDERING LUMINAIRES VERIFY TRIM COMPATIBILITY WITH CEILING TYPE TO AVOID CONFLICTS.
 B SHOULD ALTERNATE FIXTURES BE PROPOSED, EC SHALL PROVIDE PHOTOMETRICS FOR EACH SPACE CONTAINING PROPOSED ALTERNATES.
 C FINAL FINISHES SHALL BE APPLIED AFTER FABRICATION.
 D COORDINATE MOUNTING OF EXIT SIGNS WITH ARCHITECTURAL FEATURES.

SPECIFIC NOTES:
 2 DOES UPDATE WORK?



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LIGHTING PLAN

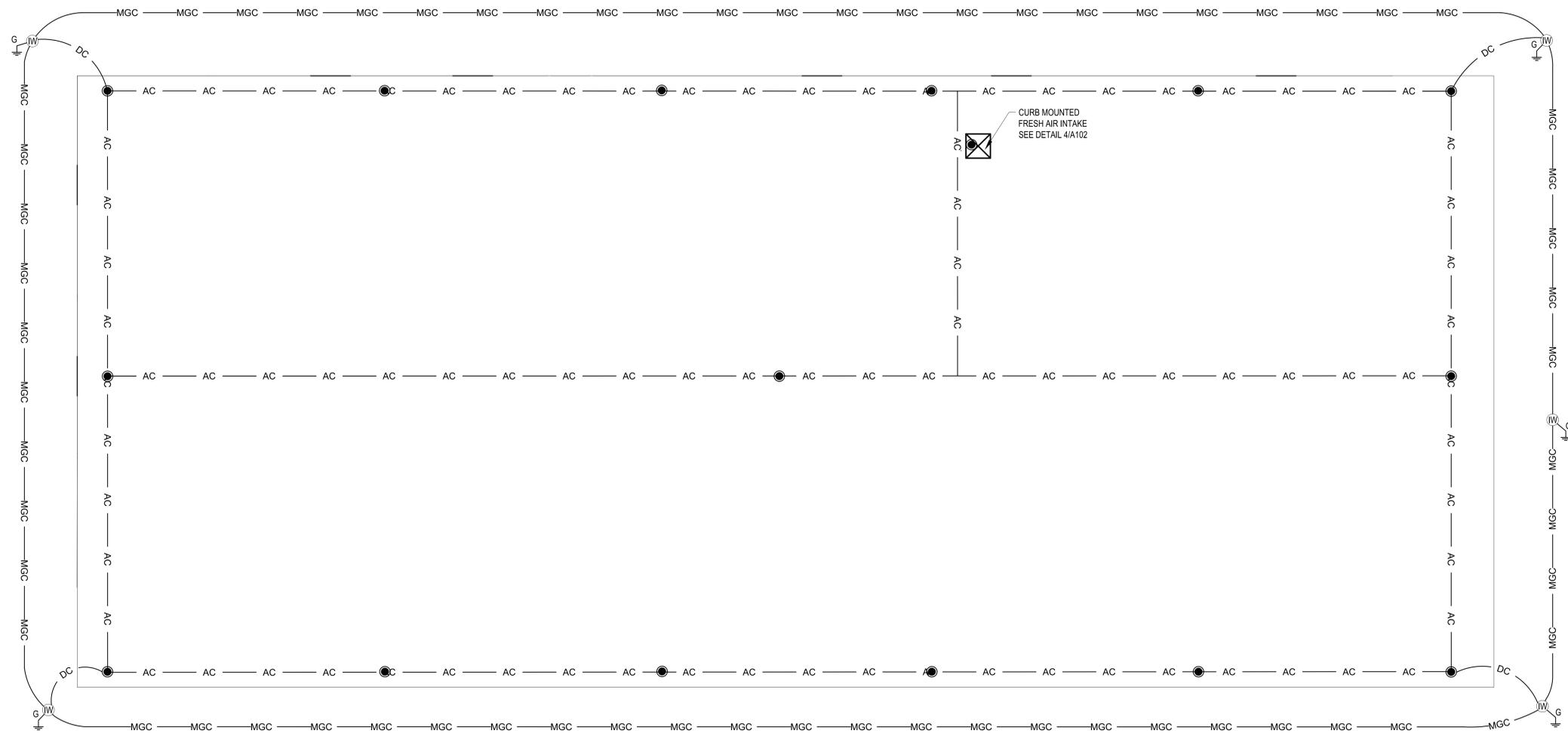
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	EL100

GENERAL NOTES

- REFER TO E001 FOR GENERAL NOTES AND SYMBOLS LIST.
- REFER TO GROUNDING DIAGRAM AND DETAILS ON SHEETS E501 AND E600.

LIGHTNING PROTECTION INSTALLATION NOTES:

- THE DESIGN LAYOUT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES STANDARD 98A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS.
- THE DESIGN LAYOUT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780, CURRENT EDITION.
- METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION ABOVE THE ROOF SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
- NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL HAVE A RADIUS BEND OF LESS THAN 8".
- CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3' MAXIMUM SPACING.
- CONNECTIONS TO GROUND ROD/ GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 2'-1/2" BELOW GRADE AND 2' AWAY FROM FOUNDATION WALL.
- ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
- AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20' MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2' OF OUTSIDE EDGE.
- MIDROOF AIR TERMINALS SHALL BE PLACED ON 50' MAXIMUM SPACING.
- BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR LOOP.
- BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
- FOR THE SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
- THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
- ARRESTERS ARE REQUIRED ON ELECTRICAL SERVICE PANEL, DATA AND TELEPHONE LINE ENTRANCES BY THE ELECTRICAL CONTRACTOR OR BY VARIOUS UTILITY AGENCIES.
- TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
- PROVIDE A 3/4" X 10' COPPER CLAD STEEL GROUND ROD AT EVERY DOWNLEAD.
- BOND EACH BUILDING COLUMN TO THE GROUND RING WITH A COPPER CABLE. USE EXOTHERMIC WELDS.
- COPPER CONDUCTORS CROSSING EXPANSION JOINTS (METAL ROOF CAPS) SHALL BE ENCAPSULATED IN PVS CONDUIT.
- THIS DRAWING IS PROVIDED TO DEMONSTRATE THE OVERALL SCOPE OF THE WORK. PROVIDE A COMPLETE SYSTEM AS DESCRIBED IN THE SPECIFICATIONS.



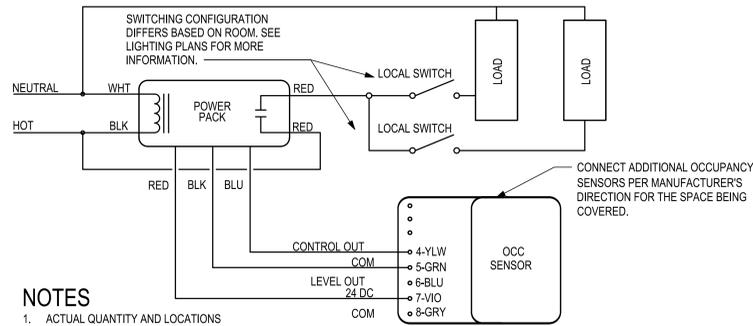
1 LIGHTNING PROTECTION PLAN
EG100 SCALE: 1/4" = 1'-0"



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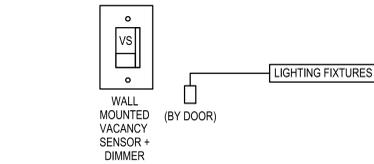
LIGHTNING PROTECTION PLAN					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	EG100



NOTES

- ACTUAL QUANTITY AND LOCATIONS OF OCCUPANCY SENSORS MUST BE PER MANUFACTURER'S INSTRUCTION FOR THE DEVICES SELECTED BY THE CONTRACTOR TAKING INTO CONSIDERATION THE SPACE THAT THE SENSORS ARE BEING PLACED IN.

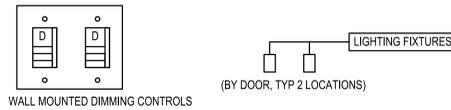
1 TYPICAL OCCUPANCY SENSOR SCHEMATIC
E500 SCALE: N.T.S.



SEQUENCE OF OPERATIONS:

- USER MUST TURN LIGHTS ON MANUALLY THROUGH LOCAL WALL SWITCH.
- USER MUST HAVE CAPABILITY TO DIM FIXTURES WITHIN ROOM WITH DIMMER DIAL.
- LIGHTING MUST AUTOMATICALLY TURN OFF WHEN OCCUPANTS HAVE BEEN ABSENT FOR 20 MINUTES, ALTHOUGH SYSTEM MUST BE CAPABLE OF ADJUSTABLE DELAY OF 5-30 MIN.

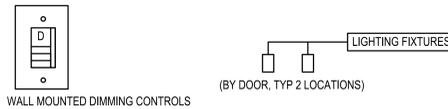
2 TYPICAL LIGHTING CONTROL- WALL MOUNTED VACANCY
E500 SCALE: N.T.S.



SEQUENCE OF OPERATIONS:

- SYSTEM IS COMPOSED OF 2 ZONES. EACH ZONE IS 1%-100% DIMMABLE WITH FLICKER FREE DIMMING.
- USER MUST HAVE CAPABILITY TO TURN LIGHTS ON/OFF WITH LOCAL WALL SWITCH.
- DIMMING SYSTEM SHALL BE 0-10V CONTROL TYPE.
- DIMMERS SHALL BE MULTI-LOCATION TYPE.

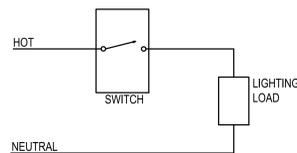
5 MULTIPURPOSE TRAINING ROOM CONTROL DETAIL
E500 SCALE: N.T.S.



SEQUENCE OF OPERATIONS:

- EACH ROOM IS 1%-100% DIMMABLE WITH FLICKER FREE DIMMING.
- USER MUST HAVE CAPABILITY TO TURN LIGHTS ON/OFF WITH LOCAL WALL SWITCH.
- DIMMING SYSTEM SHALL BE 0-10V CONTROL TYPE.
- DIMMERS SHALL BE MULTI-LOCATION TYPE.

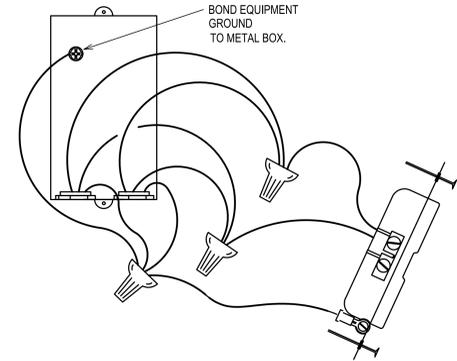
6 TYPICAL DIMMING CONTROL DETAIL
E500 SCALE: N.T.S.



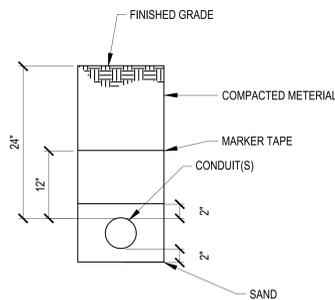
7 TYPICAL SINGLE POLE SWITCH DETAIL
E500 SCALE: N.T.S.

RECEPTACLE DETAIL NOTES:

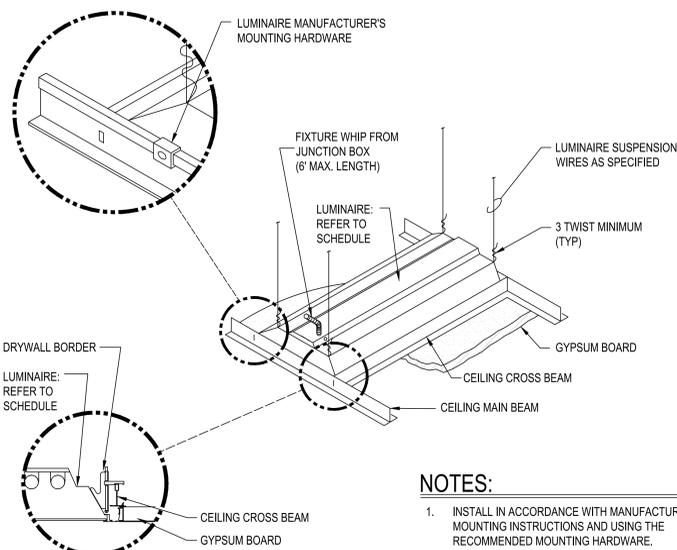
- THESE DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN. COORDINATE WITH THE MILLWORK CONTRACTOR TO DETERMINE THE EXACT LOCATION OF OUTLETS BEING PLACED IN AND AROUND MILLWORK.
- RECEPTACLES SHOWN AS GFI MAY BE NON GFI TYPE RECEPTACLES IF FED FROM A 20/1 GFI BREAKER OR THE LOAD SIDE OF A GFI RECEPTACLE IN THE SAME ROOM, ON THE SAME CIRCUIT AND RATED 16 AMP FEED-THRU CAPACITY. COVER PLATES MUST BE CLEARLY MARKED GFI.
- NON GFI RECEPTACLES MUST NOT BE CONNECTED IN A FEED-THRU MANNER. WIRE CONNECTIONS IN RECEPTACLE BOXES MUST BE MADE IN A PIGTAIL MANNER AS SHOWN IN RECEPTACLE DETAIL.
- RECEPTACLE CONNECTIONS CANNOT BE BACK STABBED. INSTALLING CONDUCTORS LOOPED AROUND THE DEVICE SCREW IS NOT ALLOWED. CONDUCTORS MUST BE INSTALLED UNDER A BRASS PRESSURE PLATE WHICH IS PART OF THE DEVICE. THE CONDUCTORS MUST BE NICK FREE WHICH MAY BE CREATED WHEN STRIPPING THE INSULATION OFF OF THE CONDUCTOR.
- MANUFACTURED WIRING SYSTEMS ARE NOT ALLOWED.



4 RECEPTACLE DETAIL
E500 SCALE: N.T.S.



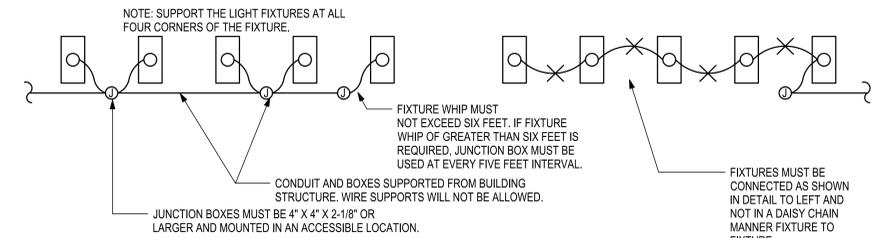
8 TRENCH DETAIL
E500 SCALE: N.T.S.



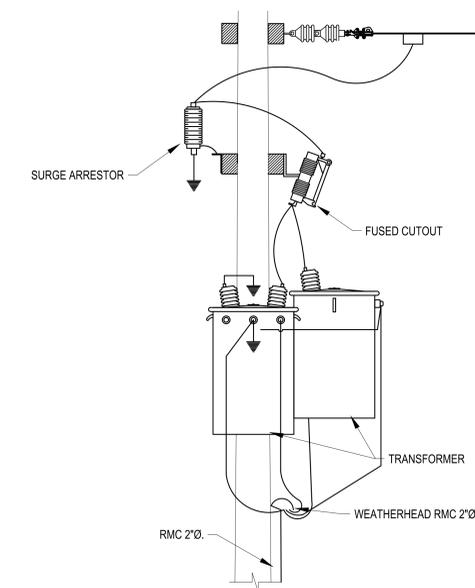
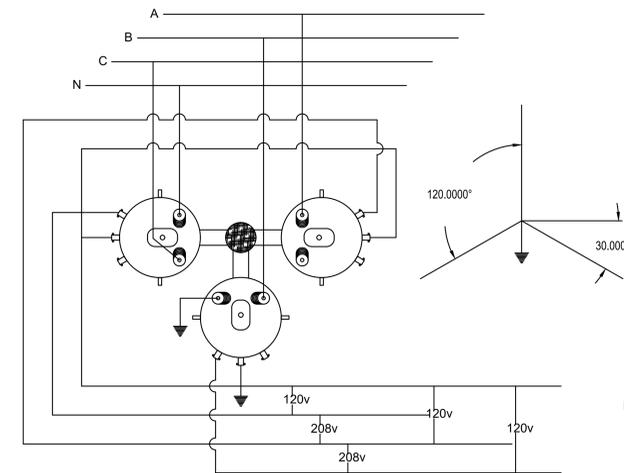
NOTES:

- INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

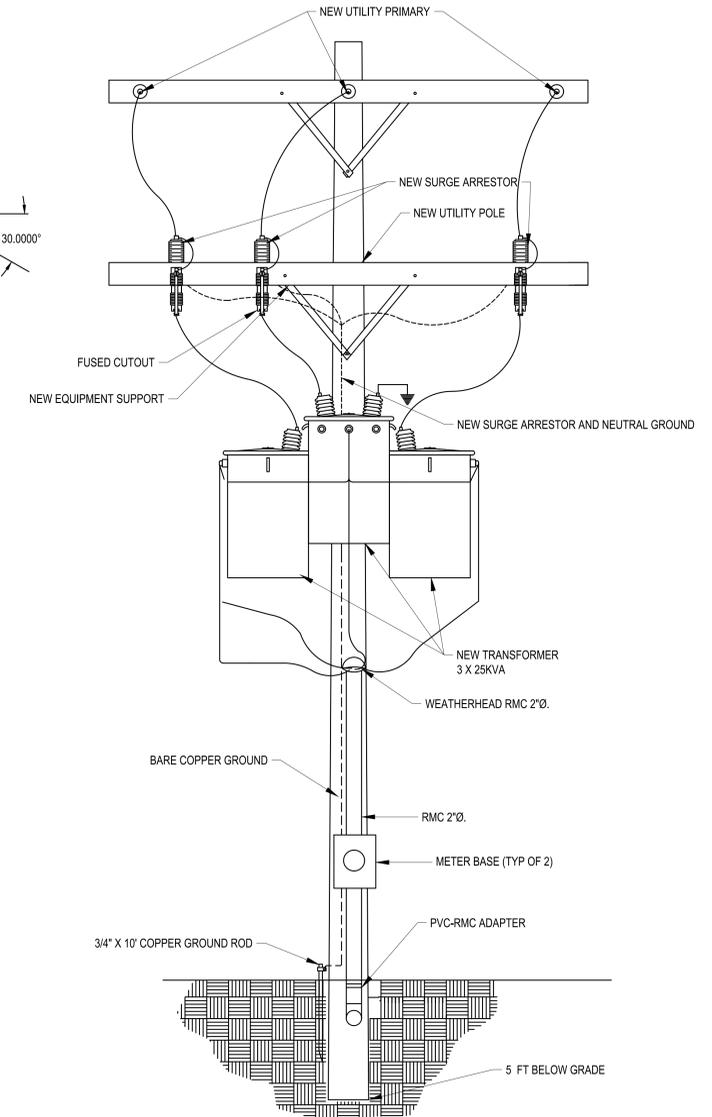
9 LUMINAIRE MOUNTING- GYPBOARD CEILING
E500 SCALE: N.T.S.



3 FIXTURE CONNECTION DETAIL
E500 SCALE: N.T.S.

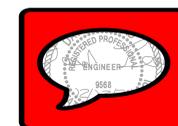


10 POWER POLE DETAIL
E500 SCALE: N.T.S.

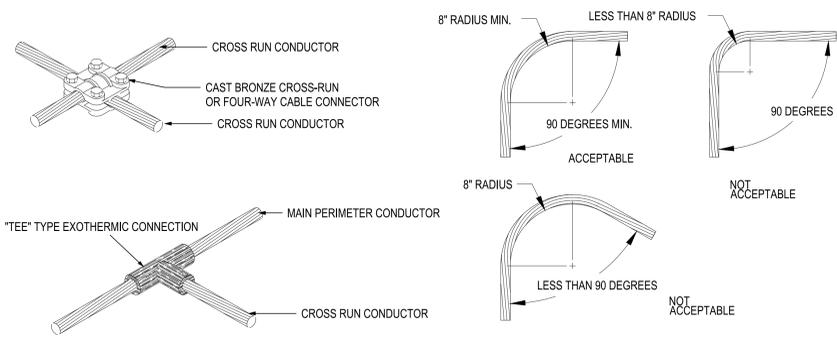


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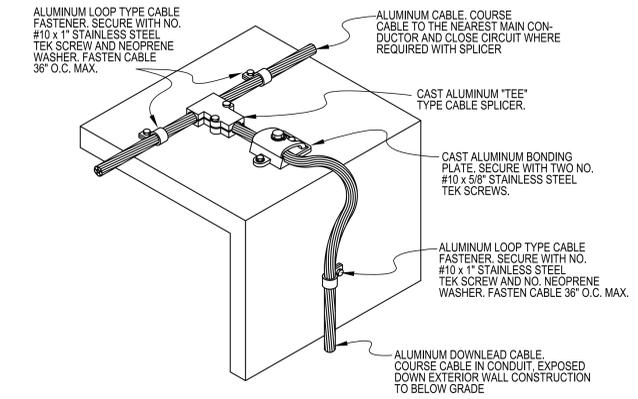
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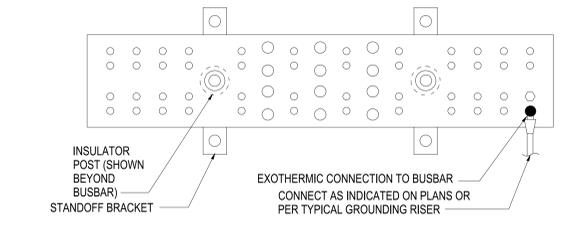
ELECTRICAL DETAILS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.	
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E500	



1 TYPICAL CABLE CONNECTIONS AND BENDS
SCALE: N.T.S.

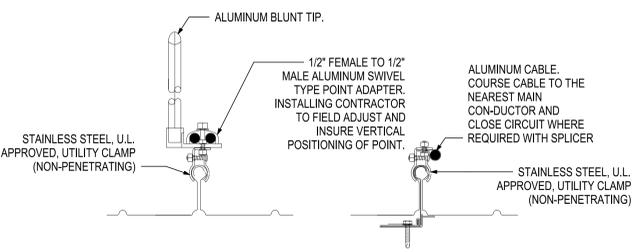


5 EXPOSED GROUND LEAD AT ROOF EDGE
SCALE: N.T.S.

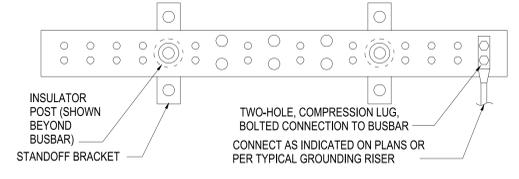


- NOTES:**
- BMGB MUST BE 4" WIDE AND 1/4" THICK.
 - LENGTH OF MGB MUST BE AS REQUIRED TO TERMINATE ALL GROUNDING AND BONDING CONNECTIONS REQUIRED AT THE PBB PLUS AN ADDITIONAL 25% FUTURE SPARE CONNECTIONS ON THE PBB. IN NO CASE MUST THE LENGTH OF THE PBB BE LESS THAN 24".
 - PBB MUST BE TIA-607-D COMPLIANT AND CONFORM TO BICSI RECOMMENDATIONS.
 - PBB MUST COMPLY WITH NEMA STANDARDS.
 - PBB MUST ACCEPT TWO HOLE COMPRESSION LUGS WITH 5/16" OR 7/16" BOLT HOLES.
 - BONDING CONDUCTORS TERMINATING AT THE PBB MUST HAVE A MINIMUM INSIDE BENDING RADIUS OF 8 INCHES.
 - GROUND CONNECTIONS TO THE EXTERIOR GROUND GRID MUST BE EXOTHERMIC TYPE. ALL OTHER GROUND CONNECTIONS TO THE BUS MUST BE TWO HOLE BOLTED CONNECTIONS.

2 DETAIL BUILDING MAIN GROUNDING BUSBAR (BMGB)
SCALE: N.T.S.

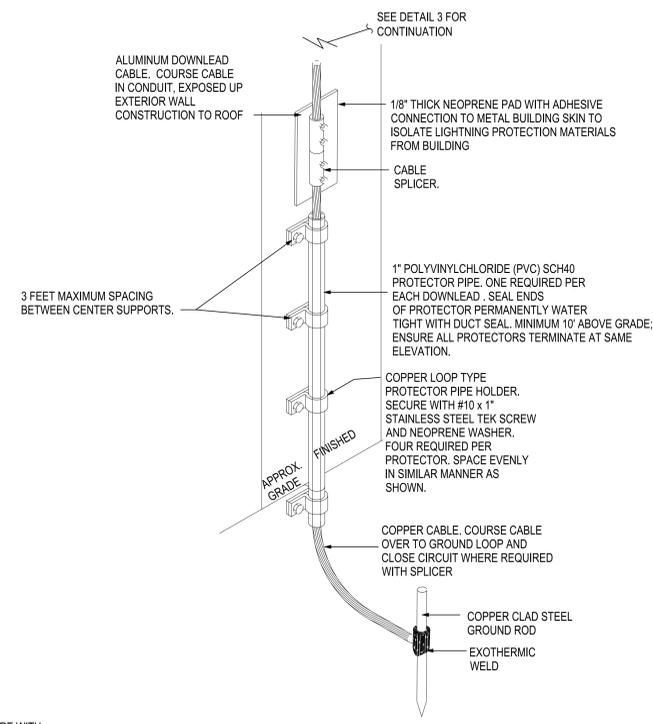


6 AIR TERMINAL
SCALE: N.T.S.

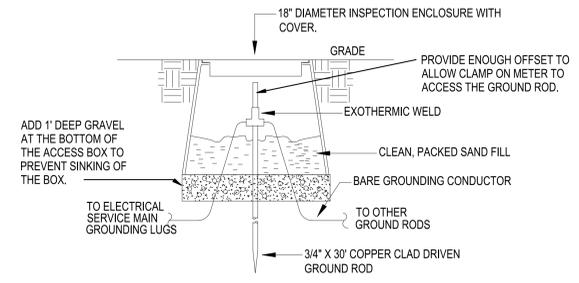


- NOTES**
- TGMB/SBB MUST BE 2" WIDE AND 1/4" THICK.
 - LENGTH OF EACH TGMB/SBB MUST BE AS REQUIRED TO TERMINATE ALL GROUNDING AND BONDING CONNECTIONS REQUIRED AT EACH TGMB/SBB PLUS AN ADDITIONAL 25% FUTURE SPARE CONNECTIONS ON EACH TGMB/SBB. IN NO CASE SHALL THE LENGTH OF THE TGMB/SBB BE LESS THAN 24".
 - TGMB MUST BE TIA-607-D COMPLIANT AND CONFORM TO BICSI RECOMMENDATIONS.
 - TGMB/SBB MUST COMPLY WITH NEMA STANDARDS.
 - TGMB/SBB MUST ACCEPT TWO HOLE COMPRESSION LUGS WITH 5/16" OR 7/16" BOLT HOLES.
 - BONDING CONDUCTORS TERMINATING AT THE TGMB/SBB MUST HAVE A MINIMUM INSIDE BENDING RADIUS OF 8 INCHES.
 - DO NOT DAISEY CHAIN GROUND CONDUCTOR CONNECTIONS. THEY MUST RUN DIRECTLY TO THE MAIN GROUND BUS WITHOUT ANY CONNECTION TAPS OR SERVING OTHER EQUIPMENT.

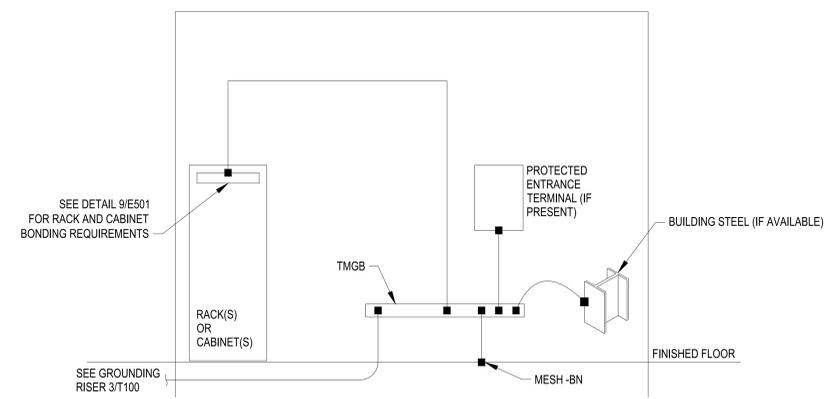
3 DETAIL SUPPLEMENTAL BONDING BUSBAR (SBB) AND TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)
SCALE: N.T.S.



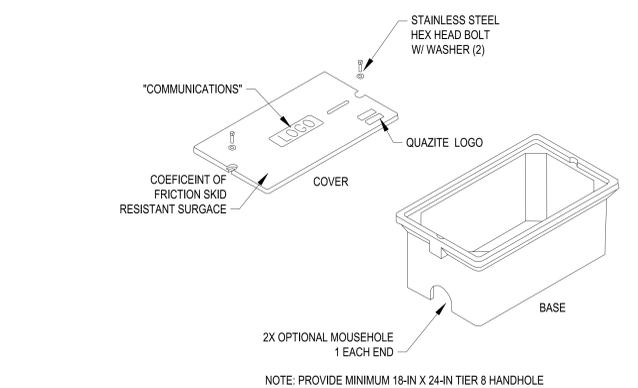
4 TRANSITION FROM ALUMINUM TO COPPER
SCALE: N.T.S.



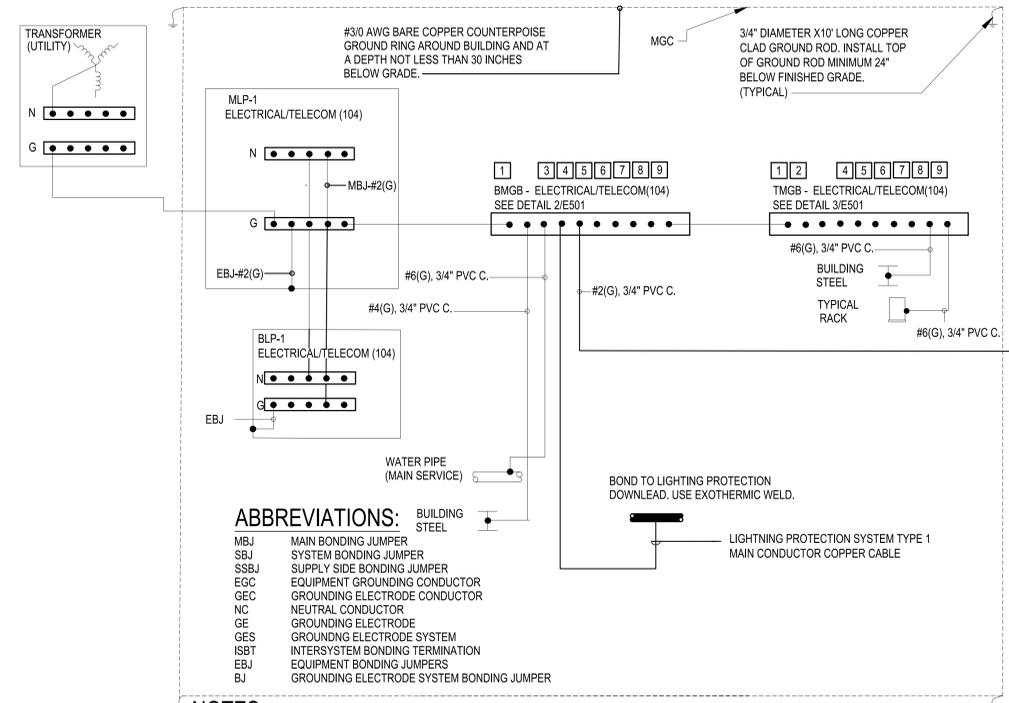
7 INSPECTION WELL DETAIL
SCALE: N.T.S.



8 COMMUNICATIONS SPACE GROUNDING DIAGRAM
SCALE: N.T.S.



10 HANDHOLE DETAIL
SCALE: N.T.S.



- ABBREVIATIONS:**
- MBJ MAIN BONDING JUMPER
 - SBJ SYSTEM BONDING JUMPER
 - SSBJ SUPPLY SIDE BONDING JUMPER
 - EQC EQUIPMENT GROUNDING CONDUCTOR
 - GEC GROUNDING ELECTRODE CONDUCTOR
 - NC NEUTRAL CONDUCTOR
 - GE GROUNDING ELECTRODE
 - GES GROUNDING ELECTRODE SYSTEM
 - ISBT INTERSYSTEM BONDING TERMINATION
 - EBJ EQUIPMENT BONDING JUMPER
 - BJ GROUNDING ELECTRODE SYSTEM BONDING JUMPER

- NOTES:**
- THIS DETAIL DOES NOT PRECLUDE THE REQUIREMENTS OF NEC ART. 250 OR NFPA 780. CONTRACTOR SHALL STRICTLY ADHERE TO NEC ART. 250, IN ADDITION TO THIS DETAIL.

9 GROUNDING DIAGRAM
SCALE: N.T.S.

GROUNDING DIAGRAM NOTES:

- PROVIDE CONNECTION TO ANY ADDITIONAL GROUNDS IN THIS ROOM USING INSULATED #6 AWG IN 3/4" PVC CONDUIT.
- PROVIDE CONNECTIONS TO HVAC/RAC UNITS IN THE ROOM USING INSULATED #6 AWG.
- PROVIDE CONNECTIONS TO EACH COMPUTER OR TELECOMMUNICATIONS CABINET, RACK OR FRAME IN ROOM USING INSULATED #6 AWG. DO NOT BOND RACKS, CABINETS, AND FRAMES NOT SERIALLY.
- PROVIDE CONNECTION TO BUILDING STEEL IF ACCESSIBLE IN ROOM USING INSULATED #4 AWG.
- PROVIDE CONNECTION TO ALL CABLE LADDERS, CABLE TRAYS, AND CABLE WIRE WAYS FOUND IN THE ROOM USING INSULATED #6 AWG.
- BOND ALL SERVER RACK MOUNTED EQUIPMENT TO THE RACK ITSELF.
- PROVIDE CONNECTIONS TO ALL CONTROL PANELS (IF ANY) USING INSULATED WIRE SIZED PER NEC 250.102(C)(1) AND MANUFACTURER'S RECOMMENDATIONS.
- BONDING METALLIC RACEWAYS AND EQUIPMENT RACKS - LOCATE AN AREA ON THE RACK OR RACEWAY TO ATTACH A BONDING CONDUCTOR. THIS LOCATION SHOULD HAVE ADEQUATE ACCESS WHILE PROVIDING MINIMAL OBSTRUCTION TO RACK MOUNTED EQUIPMENT. REMOVE ANY PAINT, OXIDIZATION AND DUST FROM THE SURFACE USING A GRINDING TOOL. APPLY A GENEROUS COATING OF ALUMINUM ANTI-OXIDANT JOINT COMPOUND TO THE MOUNTING SURFACE. ATTACH BONDING CONDUCTOR USING A TWO-HOLE COMPRESSION LUG AND STAINLESS STEEL HARDWARE. WIPE OFF ANY EXCESS ANTI-OXIDANT MATERIAL.
- GROUND BUSES MUST HAVE PREDRILLED HOLES FOR USE WITH STANDARD 2-HOLE LUGS. GROUND BUSES MUST BE AS SHOWN IN TIA J-STD-607-C. THEY MUST BE INSTALLED USING ISOLATING BUSHINGS PROVIDING AT LEAST 2" STANDOFF FROM WALL. REFER TO SINGLE LINE DIAGRAM FOR GEC SIZING.

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ELECTRICAL DETAILS					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E501

Panel Name: MLP-1		MLO or Main C.B.: 200A MCB (100% RATED)	
Panel Location: ROOM 104		Surface or Flush: SURFACE	
Voltage: 120/208V		Frame Amps: 225	
Phase/Wire: 3PH/4W		Grounding: EQUIPMENT GROUND	
AIC Rating: 14,000		Sections: ONE SECTION - 30X	
New/Existing: New		Nema Rating: NEMA 1	

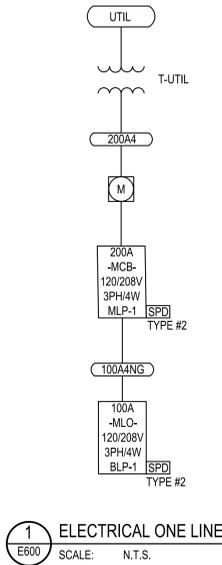
Load VA			Branch Load Data			Breaker			Load VA					
Ph A	Ph B	Ph C	Branch	Breaker Trip	Pole	No.	Ph.	No.	Branch	Breaker Trip	Pole	Ph A	Ph B	Ph C
8940														
	9280		BLP-1	100	3	1	a	2	PTAC-1			7581		
		8800				3	b	4					7581	
			SPACE	20	1	5	c	6						
			SPACE	20	1	7	a	8						
			SPACE	20	1	9	b	10	EF-1			288		288
			SPACE	20	1	11	c	12						
			SPACE	20	1	13	a	14				288		288
			SPACE	20	1	15	b	16	EF-2				288	
			SPACE	20	1	17	c	18						288
603			HP-1, IDU-1	15	2	19	a	20						
	603					21	b	22	SPARE					
			SPARE	20	1	23	c	24						
			SPARE	20	1	25	a	26						
		1500	UH-1	20	1	27	b	28	SPD					
			UH-2	20	1	29	c	30						
9543.4	11383	10300	Sum per phase (VA) right side									8156	8156	8156
8156	8156	8156												
17699.8	19540	16456.4												
10%														
163	amps		Total Connected (VA): 55696											
175	amps		Total Connected Amps: 163											
			Calculated Load (Amps) @ ##: 163											

Panel Name: BLP-1		MLO or Main C.B.: MLO	
Panel Location: ROOM 104		Surface or Flush: SURFACE	
Voltage: 120/208V		Frame Amps: 100	
Phase/Wire: 3PH/4W		Grounding: EQUIPMENT GROUND	
AIC Rating: 10,000		Sections: ONE SECTION - 42X	
New/Existing: New		Nema Rating: NEMA 1	

Load VA			Branch Load Data			Breaker			Load VA					
Ph A	Ph B	Ph C	Branch	Breaker Trip	Pole	No.	Ph.	No.	Branch	Breaker Trip	Pole	Ph A	Ph B	Ph C
1260			REC ROOM 104	20	1	1	a	2	REC ROOM 103			1260		
	900		REC ROOM 102	20	1	3	b	4	REC ROOM 101				900	
		720	REC 106	20	1	5	c	6	REC FRIDGE					1500
1500			REC MICROWAVE	20	1	7	a	8	REC BATHROOMS			360		
	720		REC COUNTER	20	1	9	b	10	REC ROOM 110				180	
		180	REC ROOM 109	20	1	11	c	12	REC ROOM 115					360
180			REC ROOM 114	20	1	13	a	14	REC ROOM S			360		
	1080		REC ROOM 111	20	1	15	b	16	REC ROOM 111 TV				720	
		1080	REC ROOM 111	20	1	17	c	18	REC EXT DOORS					900
1080			REC ROOM 111	20	1	19	a	20	REC ROOM 112			900		
	1080		JUNCTION BOX W	20	1	21	b	22	JUNCTION BOX E				1080	
		1080	JUNCTION BOX W	20	1	23	c	24	JUNCTION BOX E					1080
1500			REC FOUNTAIN	20	1	25	a	26	REC ROOM 109			180		
	1000		LIGHTS N	20	1	27	b	28	REC EXT MECH				180	
		900	REC ROOM 113	20	1	29	c	30	LIGHTS S					1000
360			REC ROOM 105	20	1	31	a	32	SPARE					
			SPARE	20	1	33	b	34	REC ROOM 101				1440	
			SPARE	20	1	35	c	36	SPARE					
			SPARE	20	1	37	a	38						
			SPACE	20	1	39	b	40	SPD					
			SPACE	20	1	41	c	42						
5880	4780	3960	Sum per phase (VA) right side									3060	4500	4840
3080	4500	4840												
8940	9280	8800												
5%														
77	amps		Total Connected (VA): 27020											
70	amps		Total Connected Amps: 77											
			Calculated Load (Amps) @ ##: 67											

GENERAL NOTES

1. VERIFY EXISTING CONDITIONS, WHEN SPECIFIC INFORMATION IS INCORRECT, MISSING OR IS IN CONFLICT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO THE BEGINNING WORK RELATED TO THAT ITEM.
2. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL OF THE NEW UTILITIES AND SERVICE.
3. COORDINATE METERING REQUIREMENTS WITH UTILITY.



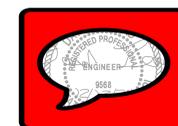
COPPER FEEDER SCHEDULE			
KEY	QTY. OF RUNS	CONDUCTORS	C (IN)
200A4	1	4#3/0	2-1/2
30A4NG	1	3#8, 1#6N, 1#8G	1
100A4NG	1	3#10, 1#250N, 1#4G	2-1/2
GBJ		REFER TO GROUNDING AND BONDING JUMPER SCHEDULE	
XFMR		REFER TO XFMR SCHEDULE	
REFER TO NATIONAL ELECTRICAL CODE FOR INSTALLATION OF CONDUIT TYPE. ALL CONDUCTORS ARE COPPER.			

PN: 28250205
BATTALION HQ BUILDING TT S233
CAMP MCCAIN, GRENADA, MISSISSIPPI

JMA THE Johnson . M Adams FIRM
ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI - (662) 455-4943

PANEL SCHEDULES

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E600



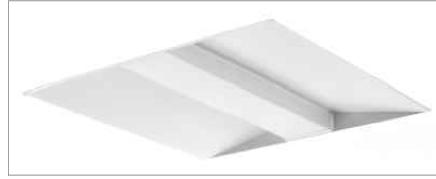


LUMINAIRE REQUIREMENTS:

- HOUSING - DIE FORMED, COLD ROLLED STEEL, SQUARE SMOOTH LENS WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WITH POLYESTER POWDER-COATED FINISH. 1FT X 2FT.
- LIGHT SOURCE - 3500K COLOR TEMPERATURE, EFFICACY OF 128 LUMENS/WATT, WITH A MINIMUM CRI OF 82.
- DRIVER - OPERATING VOLTAGE OF 120-277V, DIMMABLE TO 10%. (0-10 VOLT DIMMING)
- CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
- MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- NOM. DIMENSIONS: (L=23-3/4" X W=11-3/4" X D=2-3/4")

1' X 2' LED VOLUMETRIC TROFFER

FIXTURE TYPE: A1, A1E



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE FORMED, COLD ROLLED STEEL, SQUARE SMOOTH LENS WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WITH POLYESTER POWDER-COATED FINISH. 2FT X 2FT.
- LIGHT SOURCE - 3500K COLOR TEMPERATURE, EFFICACY OF 133 LUMENS/WATT, WITH A MINIMUM CRI OF 82.
- DRIVER - OPERATING VOLTAGE OF 120-277V, DIMMABLE TO 10%. (0-10 VOLT DIMMING)
- CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
- MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- NOM. DIMENSIONS: (L=23-3/4" X W=23-3/4" X D=2-3/4")

2' X 2' LED VOLUMETRIC TROFFER

FIXTURE TYPE: A2, A2E, A3, A3E, A4



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE CAST ALUMINUM, SELF FLANGED. 3IN X3IN.
- LIGHT SOURCE - 3500K COLOR TEMPERATURE, EFFICACY OF 98 LUMENS/WATT, WITH A MINIMUM CRI OF 80.
- DRIVER - OPERATING VOLTAGE OF 120-277V, DIMMABLE TO 1%. (0-10 VOLT DIMMING)
- CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
- MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILING OR TABS WHEN MOUNTING IN HARD CEILING.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- NOM. DIMENSIONS: (L=4-1/2" X W=4-1/2")

3" SQUARE DOWNLIGHT

FIXTURE TYPE: B, BE



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE FORMED, COLD ROLLED STEEL WITH REINFORCEMENT RIBS FOR RIGIDITY AND SPECULAR ALUMINUM OR HIGHLY REFLECTIVE PAINTED STEEL REFLECTORS WITH OPTIONAL UPLIGHT COMPONENT. 36IN.
- LIGHT SOURCE - SOLID STATE LEDS, 3500K COLOR TEMPERATURE, EFFICACY OF 100 LUMENS/WATT, WITH A MINIMUM CRI OF 80.
- DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9PF, OPERATING VOLTAGE OF 120-277V THERMAL MANAGEMENT, AND FULLY DIMMABLE DOW TO 10% MINIMUM.
- CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
- MOUNTING - SURFACE MOUNTED WITH STAINLESS STEEL MOUNTING HARDWARE.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- NOM. DIMENSIONS: (L=35-3/4" X W=3-1/2" X D=2-3/4")

3' LED STRIP LIGHT

FIXTURE TYPE: C1, C1E



LUMINAIRE REQUIREMENTS:

- HOUSING - DIE FORMED, COLD ROLLED STEEL WITH REINFORCEMENT RIBS FOR RIGIDITY AND SPECULAR ALUMINUM OR HIGHLY REFLECTIVE PAINTED STEEL REFLECTORS WITH OPTIONAL UPLIGHT COMPONENT. 48IN.
- LIGHT SOURCE - SOLID STATE LEDS, 3500K COLOR TEMPERATURE, EFFICACY OF 100 LUMENS/WATT, WITH A MINIMUM CRI OF 80.
- DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DIMMABLE DRIVER WITH MINIMUM 0.9PF, OPERATING VOLTAGE OF 120-277V THERMAL MANAGEMENT, AND FULLY DIMMABLE DOW TO 10% MINIMUM.
- CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
- MOUNTING - SURFACE MOUNTED WITH STAINLESS STEEL MOUNTING HARDWARE.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- NOM. DIMENSIONS: (L=48-1/2" X W=3-1/2" X D=2-3/4")

4' LED STRIP LIGHT

FIXTURE TYPE: C2, C2E



LUMINAIRE REQUIREMENTS:

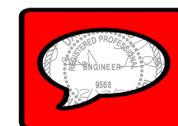
- HOUSING - DIE-CAST ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK MUST BE INCORPORATED DIRECTLY INTO HOUSING OR DRIVER COMPARTMENT TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
- FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. IP66 RATED. FINISH IS DARK BRONZE.
- POWER SUPPLY/LED DRIVER - CLASS 1 DRIVER MUST OPERATE AT 120/277 VOLTS, 50/60 HZ, POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY MUST BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
- LED OPTICAL ASSEMBLY - PRECISION MOLDED ACRYLIC LENS PROVIDED FOR MULTIPLE HIGH-POWERED LEDS. BUG UPLIGHT RATING OF U0. MINIMUM COLOR RENDERING INDEX(CRI) MUST BE 80 FOR CORRELATED COLOR TEMPERATURE OF 4000K.
- CERTIFICATION - UL AND/OR ETL LISTED FOR DAMP OR WET LOCATIONS (FOR EXTERIOR WALL MOUNT) AND ROHS COMPLIANT.
- OPTIONS - VARIOUS LUMEN OUTPUT RATINGS AS INDICATED.
- THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.
- INCLUDE EMERGENCY BATTERY PACK OPTION.

LED WALL MOUNTED FIXTURE

FIXTURE TYPE: D

PN: 28250205
BATTALION HQ BUILDING TT S233
CAMP MCCAIN, GRENADA, MISSISSIPPI

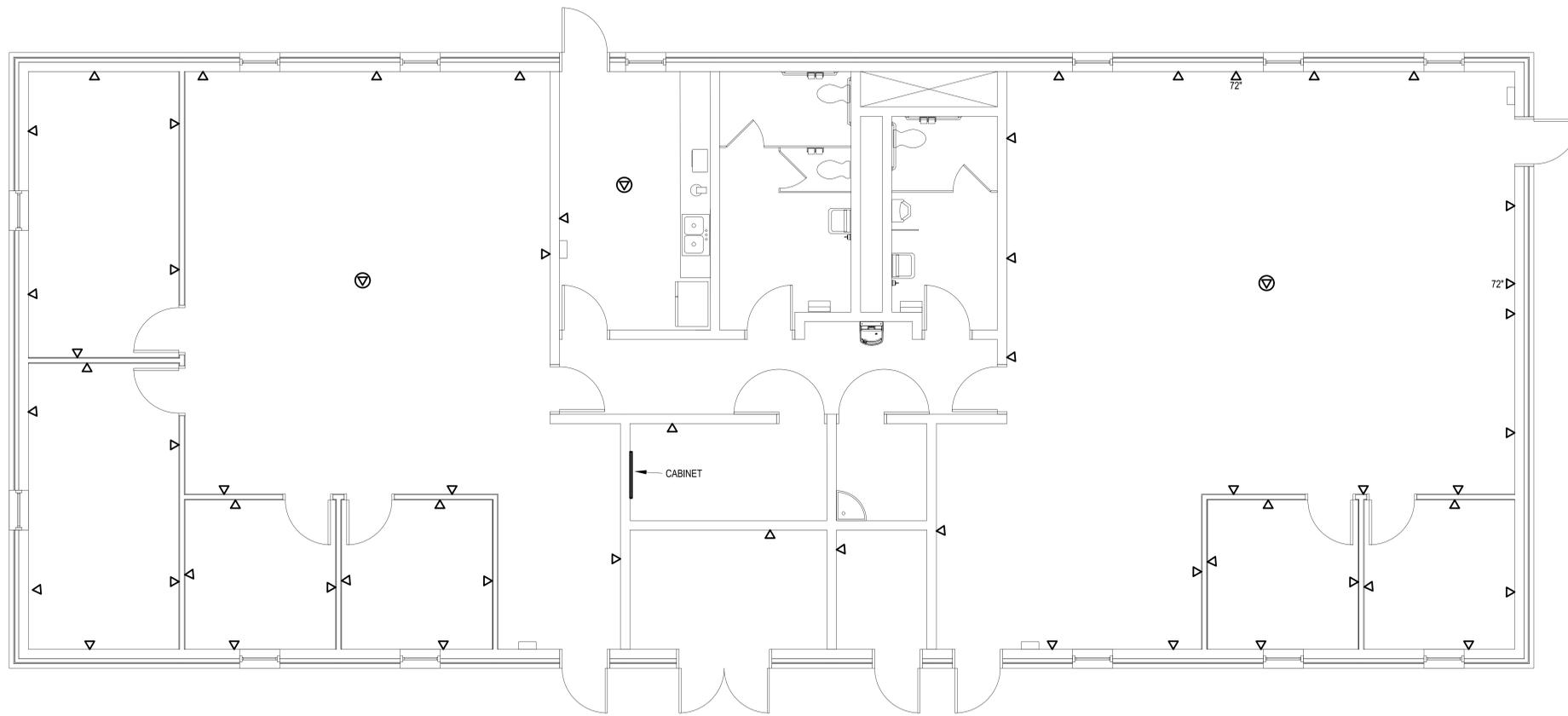
JMA THE **Johnson · M°Adams** FIRM
ARCHITECTS/ENGINEERS PLANNING SURVEYING MANAGEMENT
P.O. BOX 513, GREENWOOD, MISSISSIPPI · (662) 455-4943



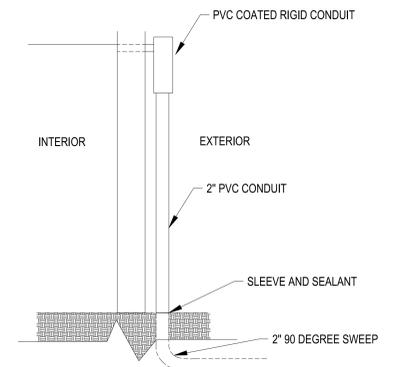
LIGHTING SLIDES					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	E700

GENERAL NOTES

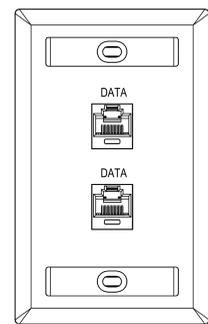
1. REFER TO E001 FOR GENERAL NOTES AND SYMBOLS LIST.
2. REFER TO E501 FOR GROUNDING DETAILS.



1 TELECOM PLAN
T100 SCALE: 1/4" = 1'-0"

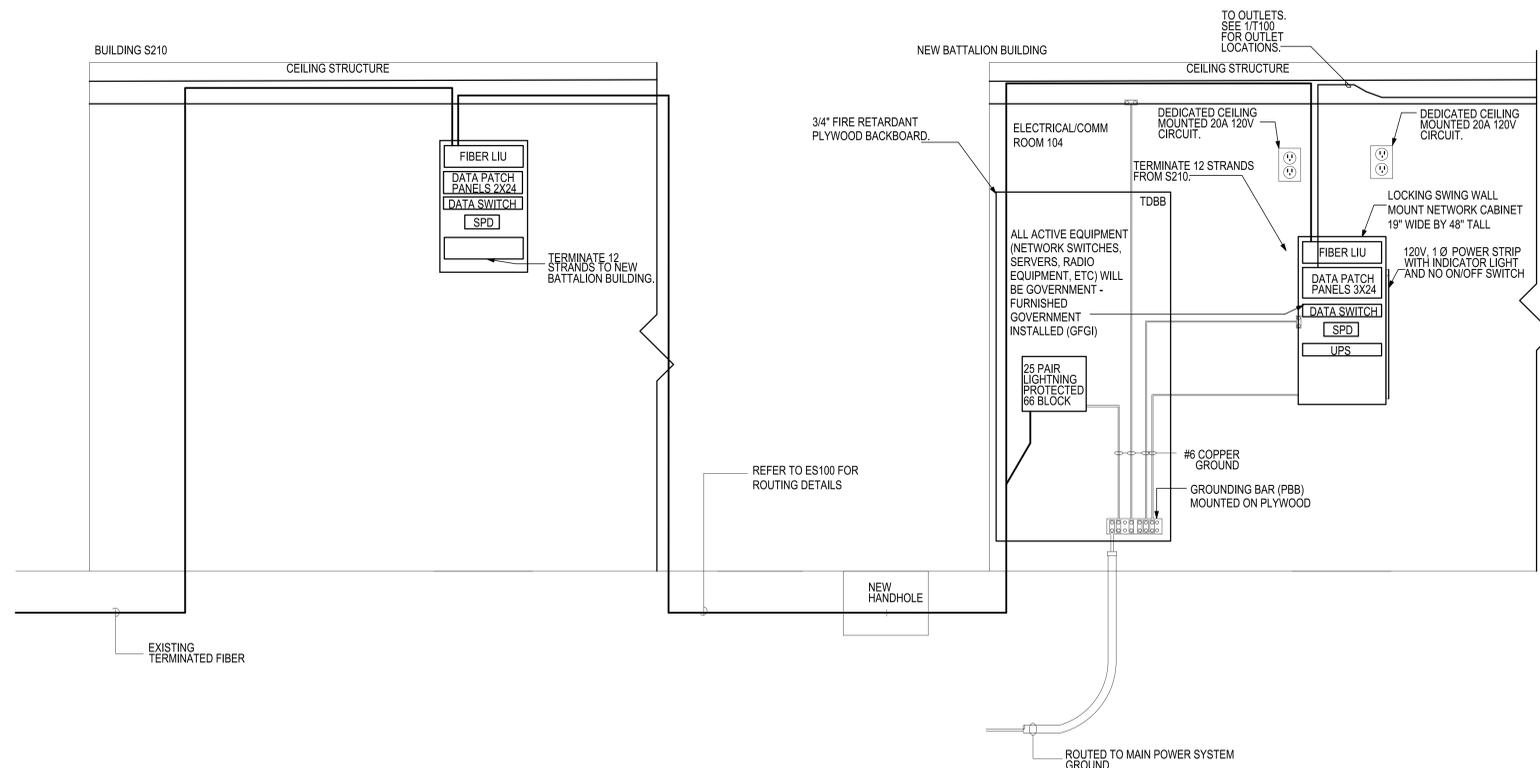


4 BUILDING PENETRATION DETAIL
T100 SCALE: N.T.S.



DEVICE CABLE SCHEDULE		
TYPE	DEVICE	CABLE
DATA	GREEN CAT6 RJ-45 (ANSI/TIA/EIA-568-B)	GREEN CAT6 UTP PLENUM

2 TELECOMMUNICATIONS PLATE DETAIL
T100 SCALE: N.T.S.



3 TELECOMMUNICATIONS RISER
T100 SCALE: N.T.S.

PN: 28250205
BATTALION HQ BUILDING TT S233
CAMP MCCAIN, GRENADA, MISSISSIPPI

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P.O. BOX 513, GREENWOOD, MISSISSIPPI - (662) 455-4943

TELECOM PLAN					
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO.
10/23/2024	AS SHOWN	D.R.L.	T.M.T.	D.R.L.	T100

