

PLAN REVIEW DATA

1. GENERAL DATA

A. PROPERTY ADDRESS: 7224 SR-21N
PORTWENTWORTH CITY HALL
Portwentworth, Georgia 31407
912-964-4379

B. MUNICIPAL AUTHORITY: CITY OF PORTWENTWORTH
DEVELOPMENT SERVICES DEPARTMENT
7306 GA-21 SUITE 301
PORTWENTWORTH, GEORGIA 31407
(912) 999-2084

2. CODE REQUIREMENTS

A. OCCUPANCY CLASSIFICATION: BUSINESS (B)
B. FIRE DISTRICT PROVISIONS: Not Applicable
C. TYPE OF CONSTRUCTION: Type V-B Un-Protected

* NOTE: ALL CODES HAVE GEORGIA AMENDMENTS.
MAX. TRAVEL DISTANCE: B = 200'

2018 IBC CHAPTER 17
SPECIAL INSPECTION REQUIREMENTS

SPECIAL INSPECTIONS "ARE NOT" REQUIRED FOR THIS PROJECT

SPECIAL INSPECTIONS AS SHOWN BELOW

1. INSPECTION OF FABRICATORS (1704.2)

WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES ARE BEING PERFORMED AT FABRICATOR'S SHOP, AN APPROVED FABRICATOR AS PER 2012 IBC SECTION 1704.2.2 DOES NOT REQUIRE THIS SPECIAL INSPECTION.

2. STEEL CONSTRUCTION (1704.3)

SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY 2012 IBC SECTION 1704.3 AND TABLE 1704.3. ALL WELDING INSPECTIONS SHALL BE IN COMPLIANCE WITH AWS D1.1.

3. CONCRETE CONSTRUCTION (1704.4)

SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY 2018 IBC SECTION 1704.4 AND TABLE 1704.4.

4. MASONRY CONSTRUCTION (1704.5)

SPECIAL INSPECTION FOR MASONRY CONSTRUCTION SHALL BE AS PER 2012 IBC SECTIONS 1704.5.1 THROUGH 1704.5.3 AS APPLICABLE.

5. WOOD CONSTRUCTION (1704.6)

SPECIAL INSPECTIONS FOR WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.6.

6. SOILS (1704.7)

SPECIAL INSPECTIONS FOR EXISTING SITE CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE AS PER 2018 IBC SECTION AND TABLE 1704.7 AND SECTION 1802.2 AND SECTION 1803.5 AS APPLICABLE.

7. PILE FOUNDATIONS (1704.8)

SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF PILE FOUNDATIONS AS PER 2018 IBC TABLE 1704.8.

8. PIER FOUNDATIONS (1704.9)

SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF PIER FOUNDATIONS AS PER 2018 IBC TABLE 1704.9 AND SECTION 1802.2 AS APPLICABLE.

9. SPRAYED FIRE RESISTANT MATERIALS (1704.10)

SPECIAL INSPECTIONS FOR SPRAYED FIRE RESISTANT MATERIALS APPLIED TO STRUCTURAL ELEMENTS AND DECKS AS PER 2018 IBC SECTIONS 1704.10.1 THROUGH 1704.10.5.

10. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (1704.11)

SPECIAL INSPECTIONS FOR MASTIC AND INTUMESCENT FIRE-RESISTANT COATING APPLIED TO STRUCTURAL ELEMENTS AND DECKS AS PER AWCI 12-B.

11. EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (1704.12)

SPECIAL INSPECTIONS ARE REQUIRED FOR ALL EIFS APPLICATIONS.

12. SPECIAL CASES (1704.13)

SPECIAL INSPECTIONS SHALL BE REQUIRED FOR WORK THAT THE BUILDING OFFICIAL DEEMS UNUSUAL IN NATURE AS PER 2018 IBC SECTION 1704.13.

13. SMOKE CONTROL SYSTEMS (1704.14)

SPECIAL INSPECTIONS FOR SMOKE CONTROL SYSTEMS SHALL BE INSPECTED BY A SPECIAL INSPECTOR AS PER 2018 IBC SECTION 1704.14.

INSULATION NOTES : INSTALL WHERE APPLICABLE.

1. BUILDING INSULATION TO BE BATT OR APPROVED SPRAY FOAM FORMULA APPROVED EQUAL IN WALLS, ATTICS, CEILINGS, AND FLOORS WITH AN R-VALUE OF 3.7 PER INCH : WHERE APPLICABLE.
INSULATION REQUIREMENTS:
EXTERIOR WALLS = R-13 (MIN.) PER IECC 2015 TABLE 402.1.1 (1).
ROOF = R-38 (MIN.) OR SPRAY FOAM R=19 PER GA. AMENDMENTS TO I.E.C.C. 2015.

VERIFY WITH I.E.C.C. 2015 AND ALL APPLICABLE CODES.

An Office Expansion for 7224 SR-21N Portwentworth, Georgia for City of Portwentworth Portwentworth, Georgia 31407

FIRE RESISTANCE REQUIREMENTS

PER TABLE 601 AND 602

FIRE PROTECTION REQUIREMENTS : REQUIRED RATING SUPPLIED RATING

1. Structural Frame	0 Hour Required	N.A.
2. Bearing Walls: Exterior Interior	0 HOUR Required 0 HOUR Required	N.A.
3. Nonbearing Walls and Partitions Exterior	0 Hour Required.	N.A.
4. Nonbearing Walls and Partitions Interior	0 Hour Required.	N.A.
5. Floor Construction including supporting beams and joists	0 Hour Required.	N.A.
6. Roof Construction including supporting beams and joists	0 Hour Required.	N.A.

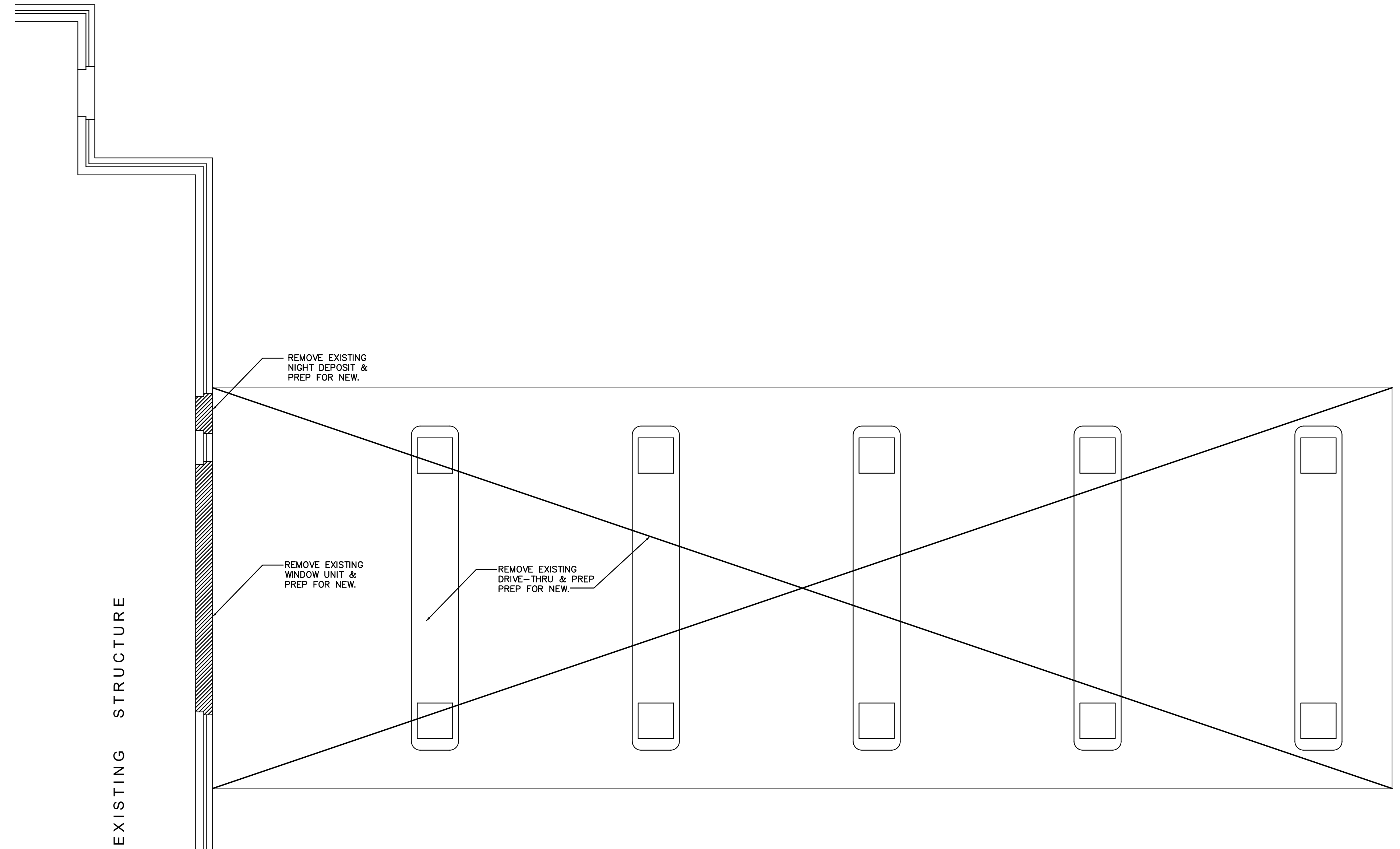
INDEX OF DRAWINGS:

SHT. NO.	DESCRIPTION	SHT. NO.	DESCRIPTION
C	COVER SHEET	P0.1	PLUMBING NOTES & SCHEDULES
		P0.2	PLUMBING DETAILS
A1	EXISTING AND DEMOLITION PLANS	P1.1	SANITARY OVERALL FIRST FLOOR PLAN
A2	FIRST FLOOR PLAN	P1.2	SANITARY OVERALL SECOND FLOOR PLAN
A3	SECOND FLOOR PLAN	P2.1	DOMESTIC WATER OVERALL FIRST FLOOR PLAN
A4	REAR ELEVATION AND DETAILS		
A5	RIGHT AND LEFT SIDE ELEVATIONS	P2.2	DOMESTIC WATER OVERALL SECOND FLOOR PLAN
A6	BUILDING SECTIONS		
A7	ROOF PLAN		
A8	ENLARGED PLANS AND ELEVATIONS	M0.1	MECHANICAL NOTES
A9	FIRST FLOOR REFLECTIVE CEILING PLAN	M0.2	MECHANICAL DETAILS
A10	SECOND FLOOR REFLECTIVE CLG. PLAN	M0.3	MECHANICAL SCHEDULES
A11	SCHEDULES AND NOTES	M1.1	MECHANICAL OVERALL FIRST FLOOR PLAN
		M1.2	MECHANICAL OVERALL SECOND FLOOR PLAN
L1	FIRST FLOOR LIFE SAFETY PLAN		
L2	SECOND FLOOR LIFE SAFETY PLAN		
		E-0	ELECTRICAL LEGEND
S1	FOUNDATION PLAN	E-1	FIRST FLOOR LIGHTING PLAN
S2	FOUNDATION SECTIONS	E-2	SECOND FLOOR LIGHTING PLAN
S3	TYPICAL WALL SECTION	E-3	FIRST FLOOR POWER PLAN
S4	TYPICAL WALL SECTION	E-4	SECOND FLOOR POWER PLAN
S5	TYPICAL WALL SECTION	E-5	ELECTRICAL DETAILS
S6	SHEARWALL SECTIONS		
S7	TYPICAL DETAILS		
F1	SECOND FLOOR FRAMING PLAN		

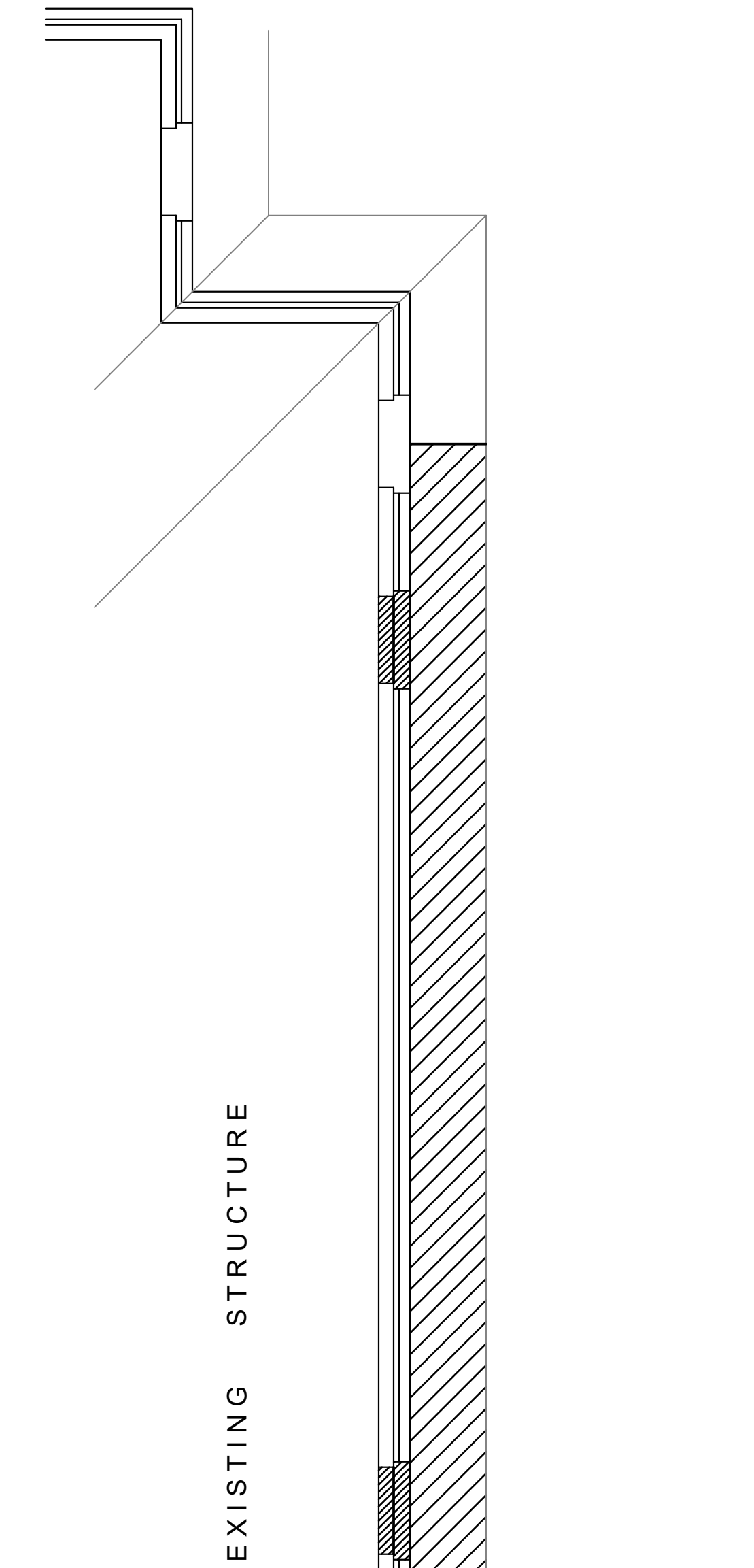
BUILDING INFORMATION [IBC-2018]:

SHEET 1 OF 39

OCCUPANCY TYPE	DESCRIPTION	CONSTRUCTION		SPRINKLER	AREA (TABLE 506.2)			HEIGHT (TABLE 504.3)		STORIES (TABLE 504.4)	
		TYPE	PROTECTION		NFPA 13	ALLOW	ACTUAL	ALLOW	ACTUAL	ALLOW	ACTUAL
B	BUSINESS	V-B	Un-Protected	No	BUSINESS	9,000	3,600	40'-0"	37'-0 3/4"	2	2



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



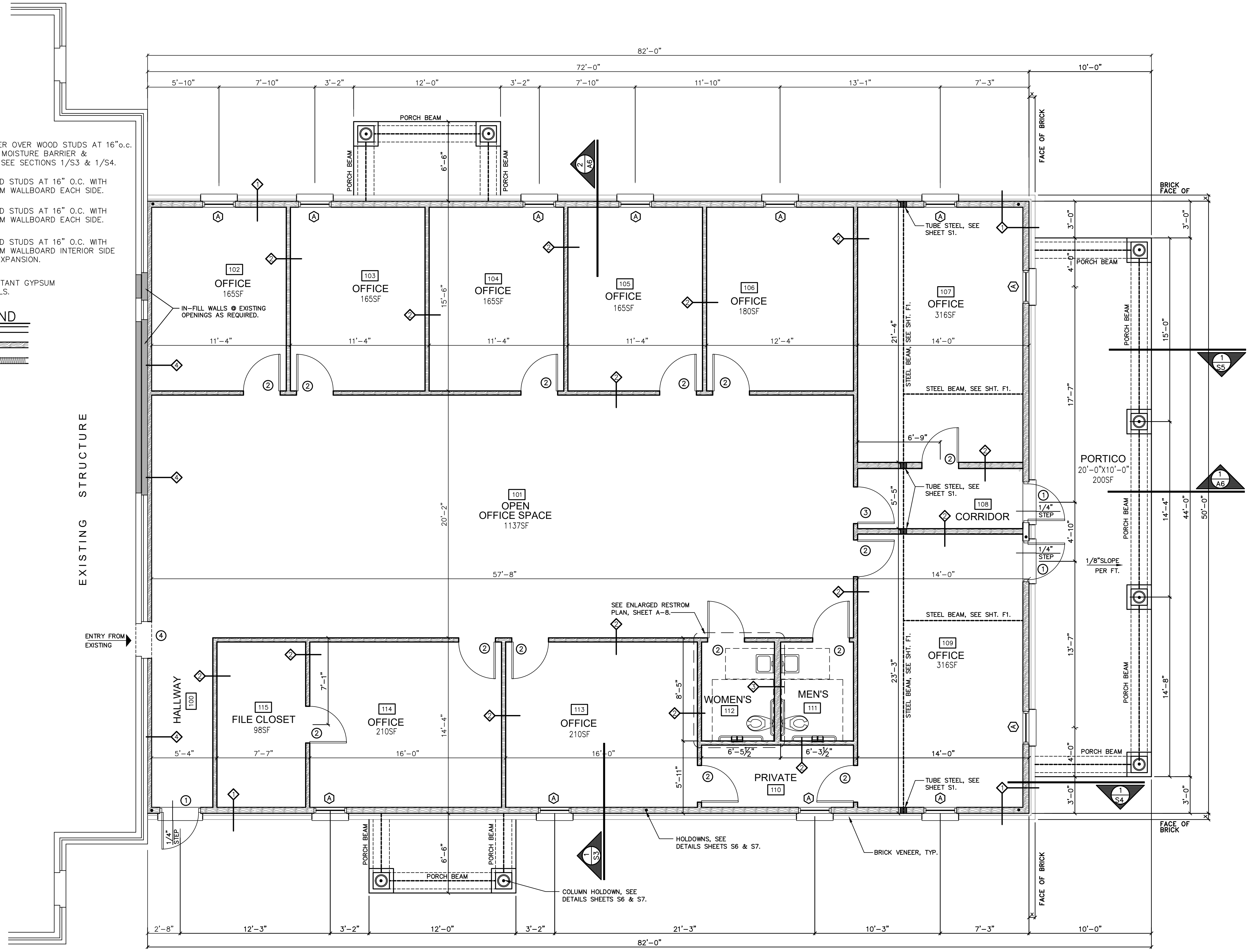
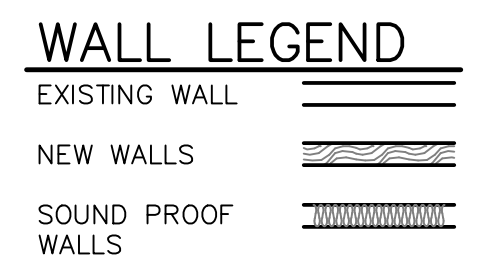
EXISTING SECOND FLOOR DEMOLITION PLAN
SCALE: 1/4"=1'-0"

ABBREVIATIONS			
ABV.	ABOVE	MIN.	MINIMUM
A/C	AIR CONDITIONING	MIR.	MIRROR
A.F.F.	ABOVE FINISHED FLOOR	N.T.S.	NOT TO SCALE
AMSL	ABOVE MEAN SEA LEVEL	OC.	ON CENTER
B.C.	BASE CABINET	O.H.	OVERHANG
BRG.	BEARING	OV.	OVENS
BTWN.	BETWEEN	PAN. or PANT.	PANTRY
BM.	BEAM	P.C.	PULL CORD
CAB.	CABINET	PK.	POCKET
CAR.	CARPET	PL.	PLATE
CATH.	CATHEDRAL	PLWD.	PLYWOOD
CJ.	CEILING JOIST	PSF	POUNDS PER SQUARE FOR
CLG.	CEILING	PT.	PRESSURE TREATED
CLO.	CLOSET	R/A	RETURN AIR
CMU	CONCRETE MASONRY UNIT	R&S	ROD AND SHELF
C.O.	CASED OPENING	REF. or REFG.	REFRIGERATOR
CONC.	CONCRETE	REINF.	REINFORCING
CT.	CERAMIC TILE	RM.	ROOM
CTR.	COUNTER	R.O.	ROUGH OPENING
D	DRYER	REQ'D.	REQUIRED
DBL.	DOUBLE	RM.	ROOM
DJ	DOUBLE JOIST	S. or SLP.	SLOPE
DN.	DOWN	SF	SQUARE FEET
DW	DISHWASHER	SH.	SHelf
EA.	EACH	SHLVs.	SHELVES / SHELVING
EXT.	EXTERIOR	SHT.	SHEET
EXIST.	EXISTING	SHW. or SHOW.	SHOWER
EW	EACH WAY	S.L.	SIDE LITE
FND.	FOUNDATION	SPECS.	SPECIFICATIONS
FJ	FLOOR JOIST	SYP.	SOUTHERN YELLOW PINE
FR.	FRENCH	SQ.	SQUARE
FTG.	FOOTING	T	TILE
F.V.	FIELD VERIFY	T&G	TONGUE & GROOVE
GL.	GLASS	TRANS.	TRANSOM
H.B.	HOSE BIBB	TPD	TOILET PAPER DISPENSER
HGT.	HEIGHT	TB	TOWEL BAR
HEAD.	HEADER	T.P.	TOP PLATE
HVAC	HEATS, VENTILATION & A/C UNIT	TR	TOWEL RING
JST.	JOIST	TYP.	TYPICAL
K.D.A.T.	KILZ DRIED AFTER TREATMENT	U.N.O.	UNLESS NOTED OTHERWISE
KW	KNEE WALL	V	VERTICAL
LAUN.	LAUNDRY	W	WASHER
LIN.	LINEN	W/	WITH
LVL	LAMINATED VENEER LUMBER	W.C.	WATER CLOSET (TOILET)
LAT.	LATITUDE	WD.	WOOD
LONG.	LONGITUDE	W.I.C.	WALK IN CLOSET
MAX.	MAXIMUM	W.H.	WATER HEATER
MANUF.	MANUFACTURER	WWM	WELDED WIRE MESH
MBL.	MARBLE	WWF	WELDED WIRE FABRIC
MED. CAB.	MEDICINE CABINET	YP	YELLOW PINE
MSL	MEAN SEA LEVEL		
MECH.	MECHANICAL		
MC	MEDICINE CABINET		
MICRO	MICROWAVE OVEN		

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N	
Existing and Demolition Plans	
DATE: AUG. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	Port Wentworth, Georgia
 Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.349.1800	
SHEET A1 2 OF 38	
COPYRIGHT © 2024 Cadman Designs	

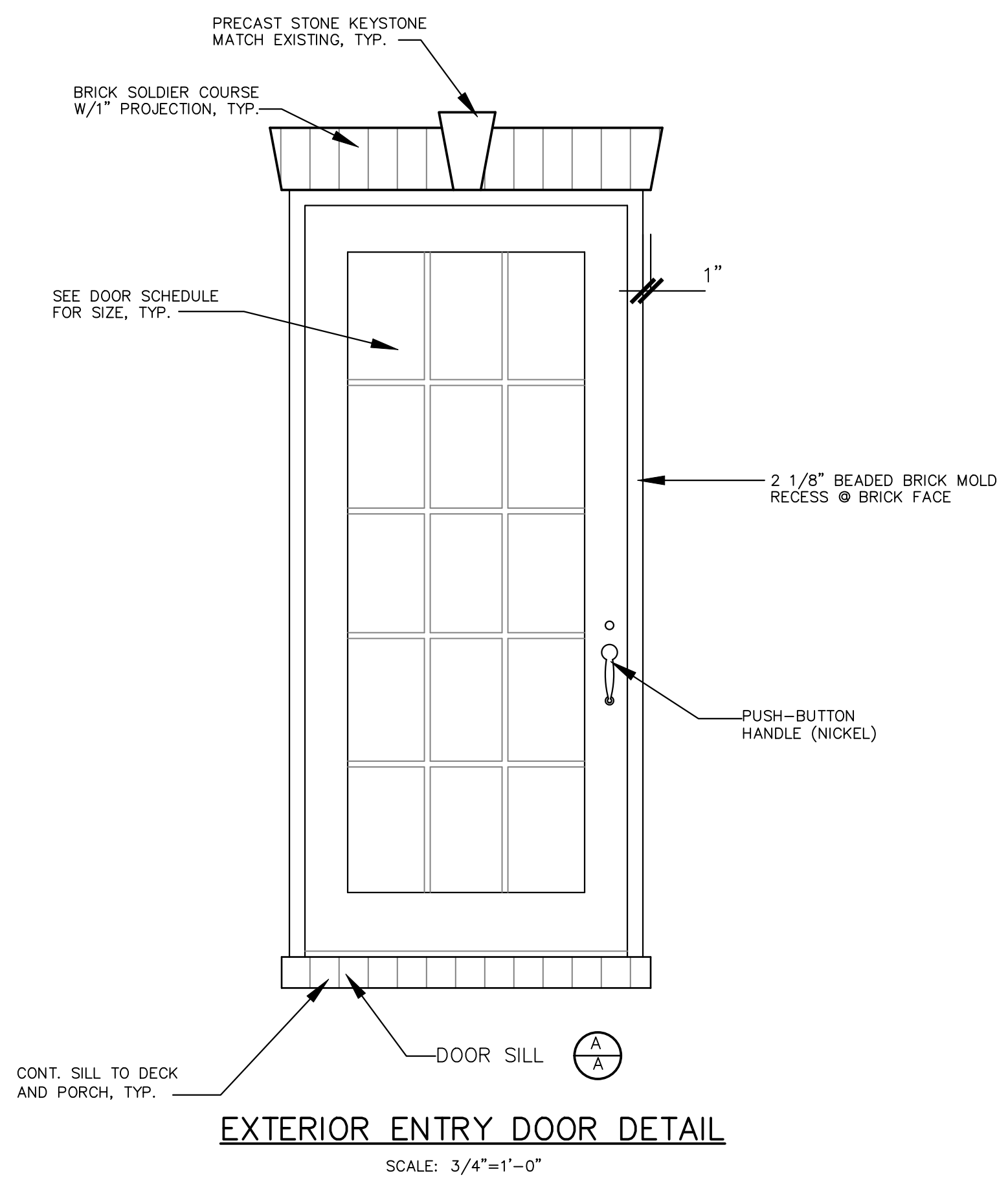
- WALL TYPE**
- 1 EXTERIOR WALL: BRICK VENEER OVER WOOD STUDS AT 16" o.c. WITH TYVEK MOISTURE BARRIER & BRICK TIES. SEE SECTIONS 1/S3 & 1/S4.
 - 2 INTERIOR WALL: 3 1/2" WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM WALLBOARD EACH SIDE.
 - 3 INTERIOR WALL: 5 1/2" WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM WALLBOARD EACH SIDE.
 - 4 INTERIOR WALL: 3 1/2" WOOD STUDS AT 16" O.C. WITH 5/8" GYPSUM WALLBOARD INTERIOR SIDE OF OFFICE EXPANSION.

NOTE: PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN PLUMBING (WET) WALLS.

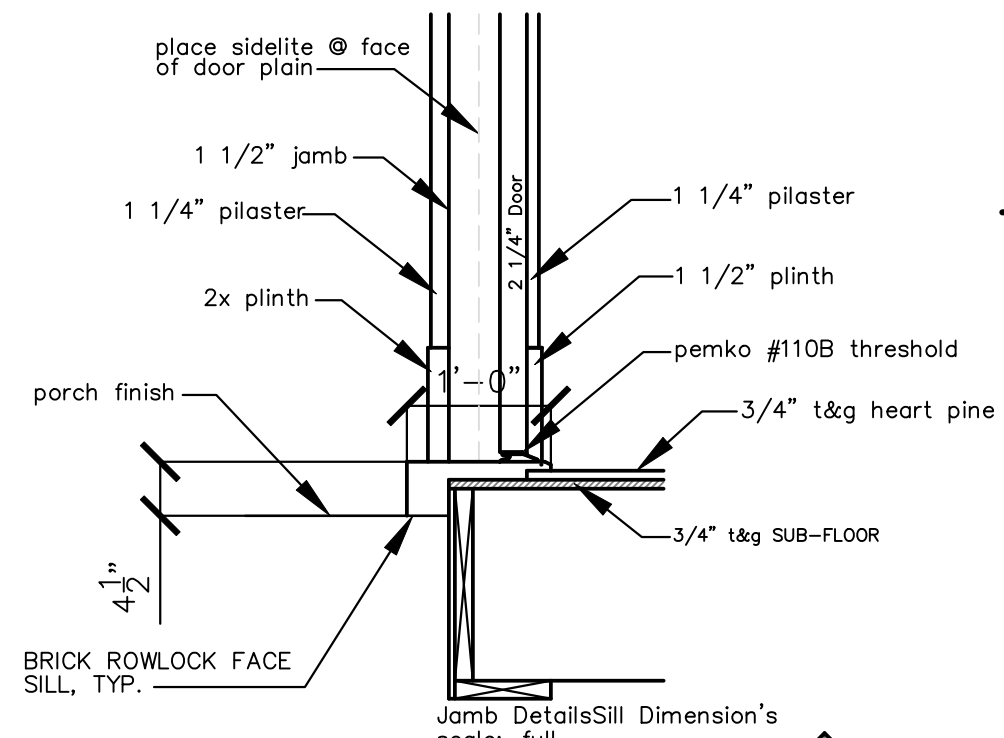


FIRST FLOOR PLAN
 SCALE: 1/4"=1'-0"
 SQUARE FOOT DATA
 FIRST FLOOR = 3,600 SQ. FT.
 SECOND FLOOR = 3,100 SQ. FT.

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N Chatham County, Georgia	
First Floor Plan	
DATE: AUG. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	PORT WENTWORTH, GEORGIA
Cadman Designs LLC Residential • Designers • Planners P.O. Box 30443 • Savannah, GA 31410 Office / Fax: 912.349.1800	
SHEET A2 3 OF 38 COPYRIGHT © 2024 Cadman Designs	



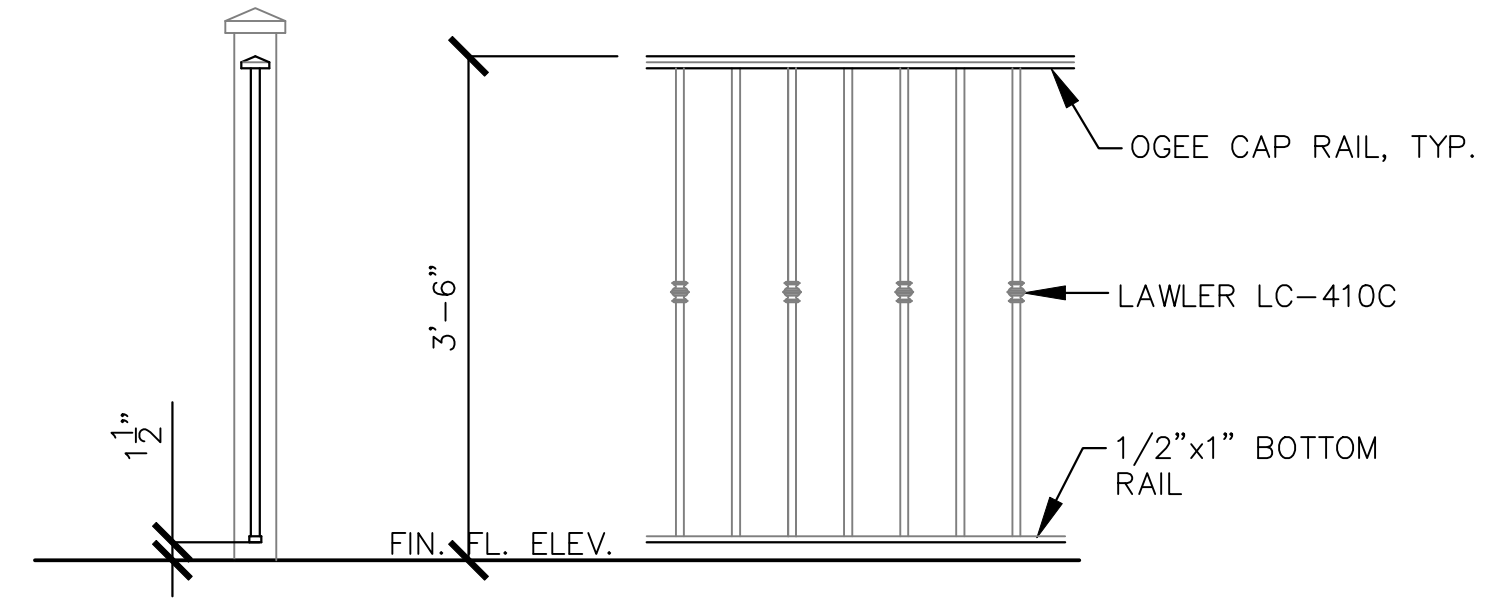
EXTERIOR ENTRY DOOR DETAIL
SCALE: 3/4"=1'-0"



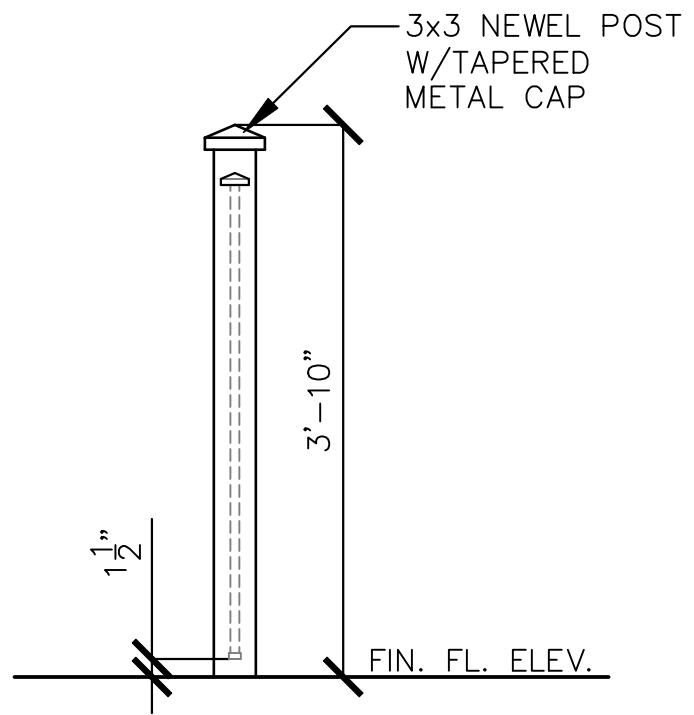
DOOR SILL SECTION
SCALE: 3/4"=1'-0"



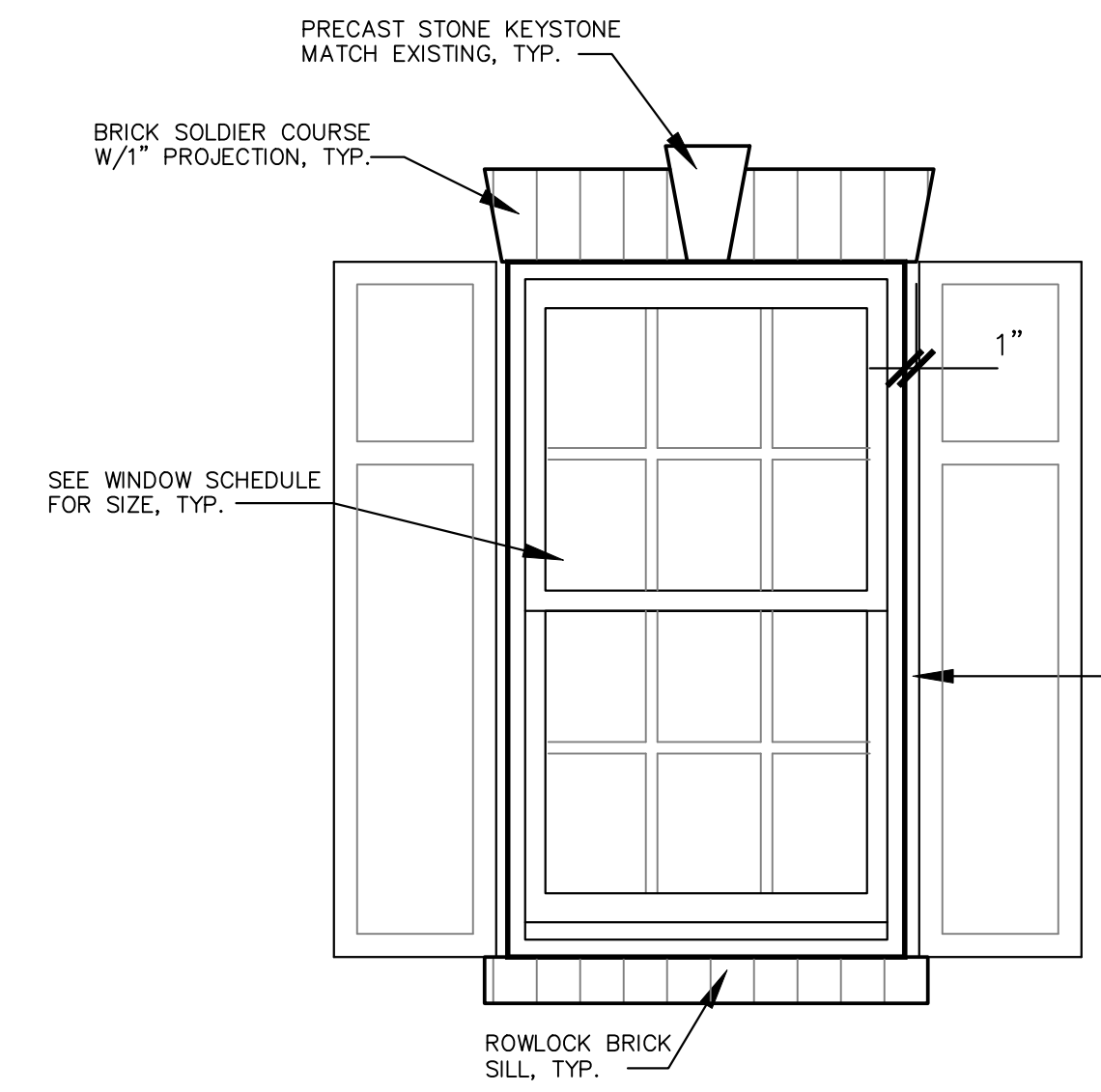
REAR ELEVATION
SCALE: 1/4"=1'-0"



IRON HANDRAIL DETAIL
SCALE: 3/4"=1'-0"

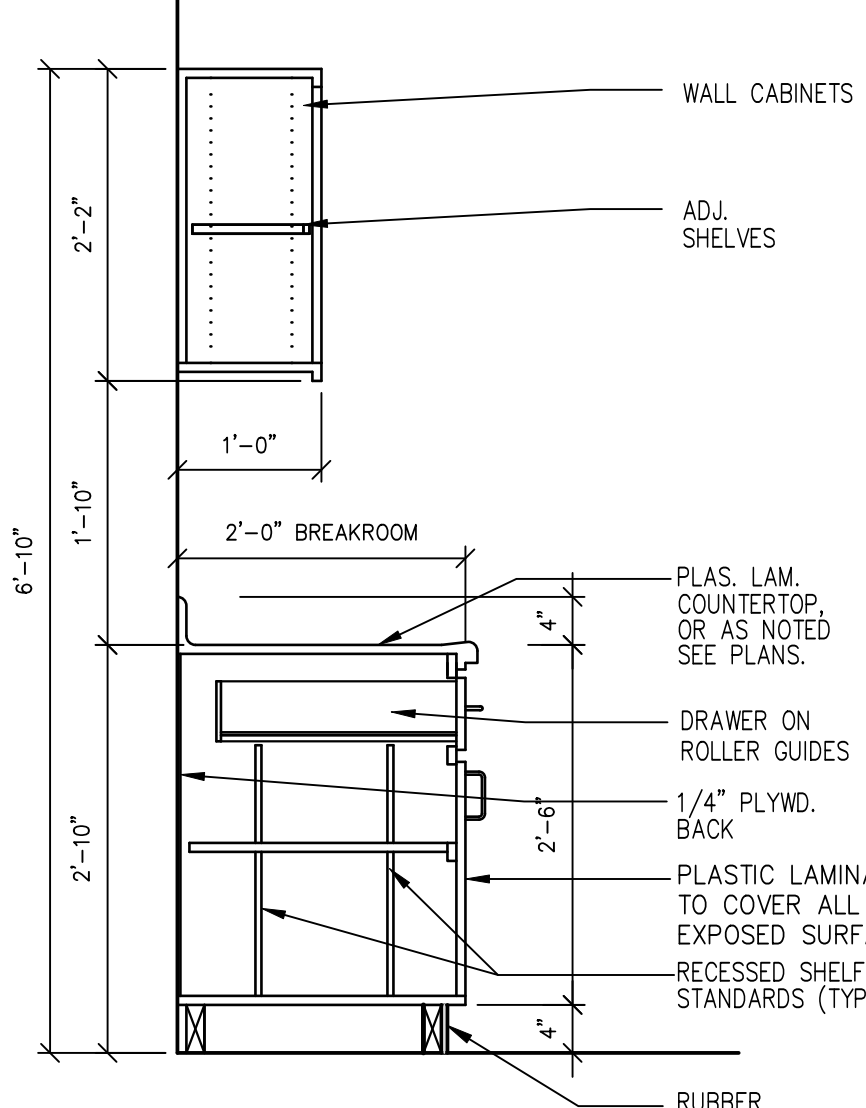


IRON NEWEL POST DETAIL
SCALE: 3/4"=1'-0"



TYPICAL WINDOW DETAIL
SCALE: 3/4"=1'-0"

NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES.

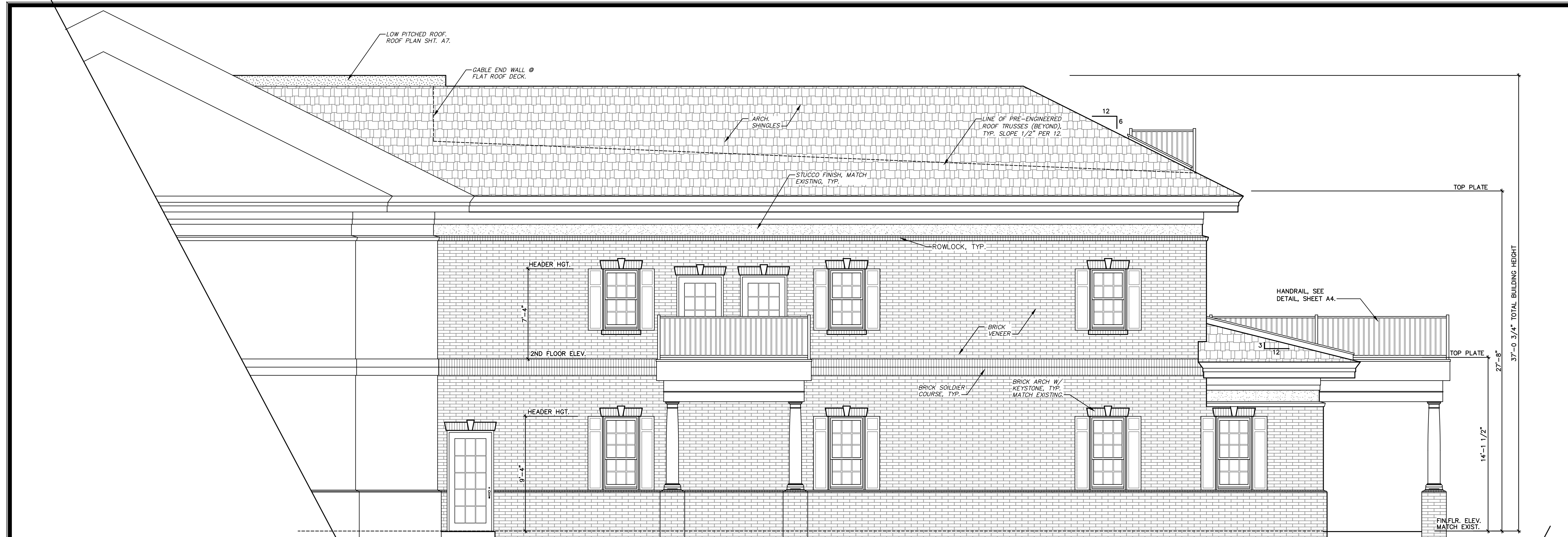


TYPICAL COUNTER SECTION
SCALE: 3/4"=1'-0"

NOTE:

ALL CUSTOM CONSTRUCTION SHALL BE AS SPECIFIED BY OWNER.
ALL EXTERIOR SURFACES SHALL BE PLASTIC LAMINATE. (U.N.O.) ALL EXPOSED INT. SURFACES AND CABINET DOORS SHALL BE MELAMINE OF A NEUTRAL COLOR.
SHELVING EDGE SHALL BE COLOR MATCHED PVC OR PLAS. LAM. IF MATCHING COLOR IS NOT AVAILABLE.
PLAS. LAMINATE COLORS SHALL BE CHOSEN FROM MANUF. STANDARDS. EXTENT AND LOCATION OF DIFFERENT COLORS SHALL BE INDICATED ON SHOP DRAWINGS.
TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, AND SOAP DISPENSERS ARE SHOWN FOR REFERENCE ONLY. ALL AFOREMENTIONED FIXTURES WILL BE OWNER SPECIFIED.

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N Port Wentworth, Georgia	
Rear Elevation and Details	
DATE: AUG. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	
Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
SHEET A4 5 OF 38	
COPYRIGHT © 2024 Cadman Designs	

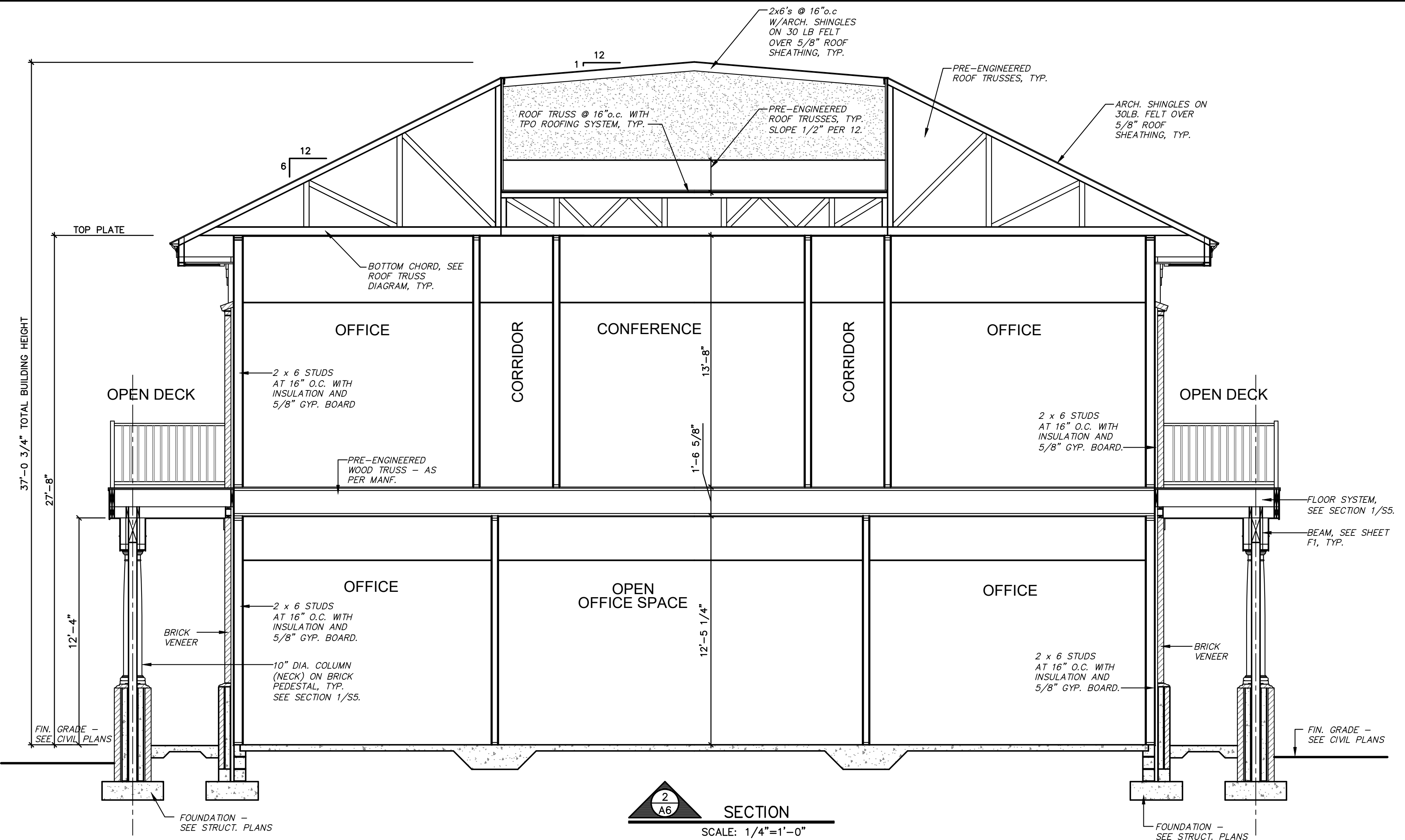


RIGHT SIDE ELEVATION
SCALE: 1/4"=1'-0"

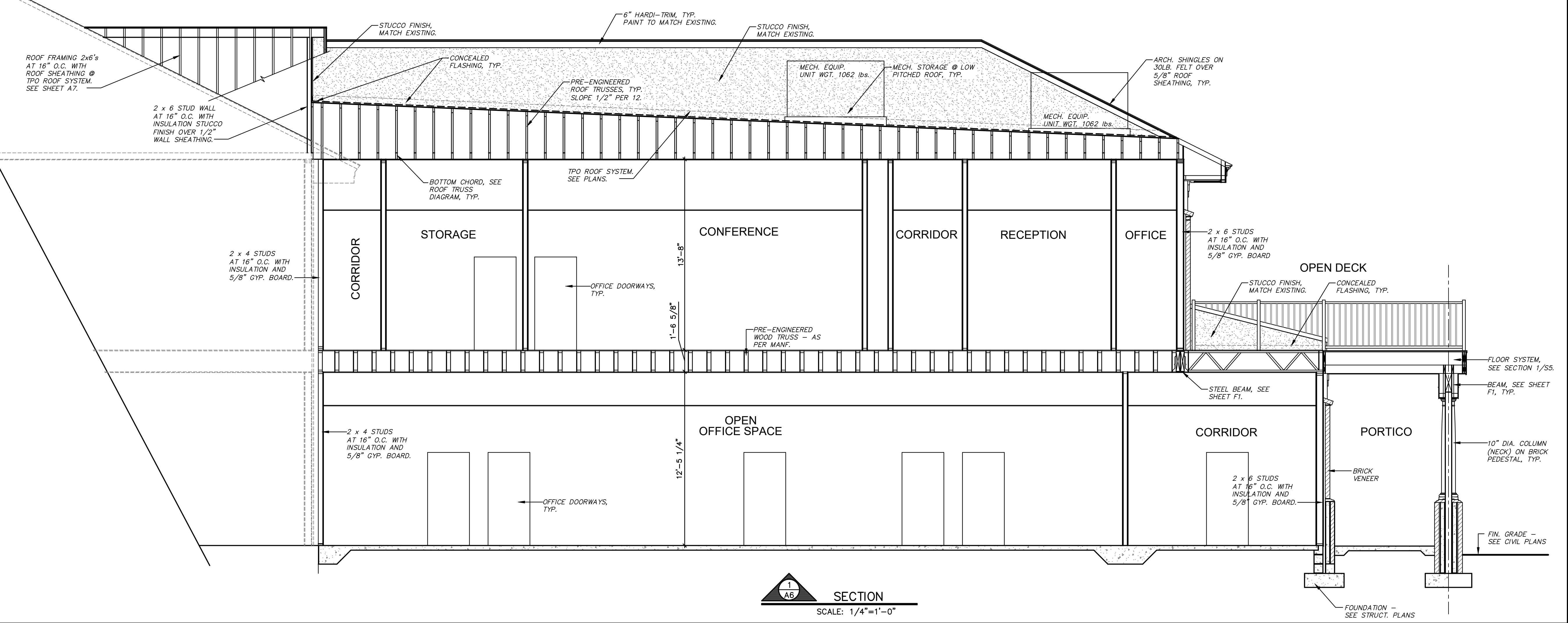


LEFT SIDE ELEVATION
SCALE: 1/4"=1'-0"

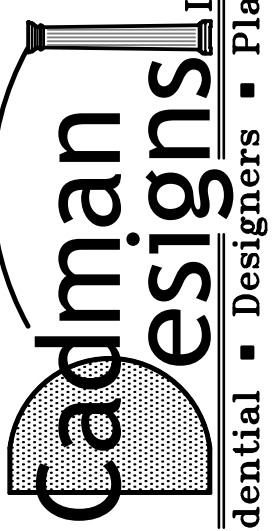
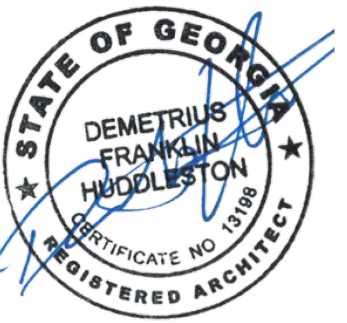
REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N	
Chatham County	
Port Wentworth, Georgia	
Right and Left Side Elevations	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	
 Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
SHEET A5 6 OF 38	
COPYRIGHT © 2024 Cadman Designs	

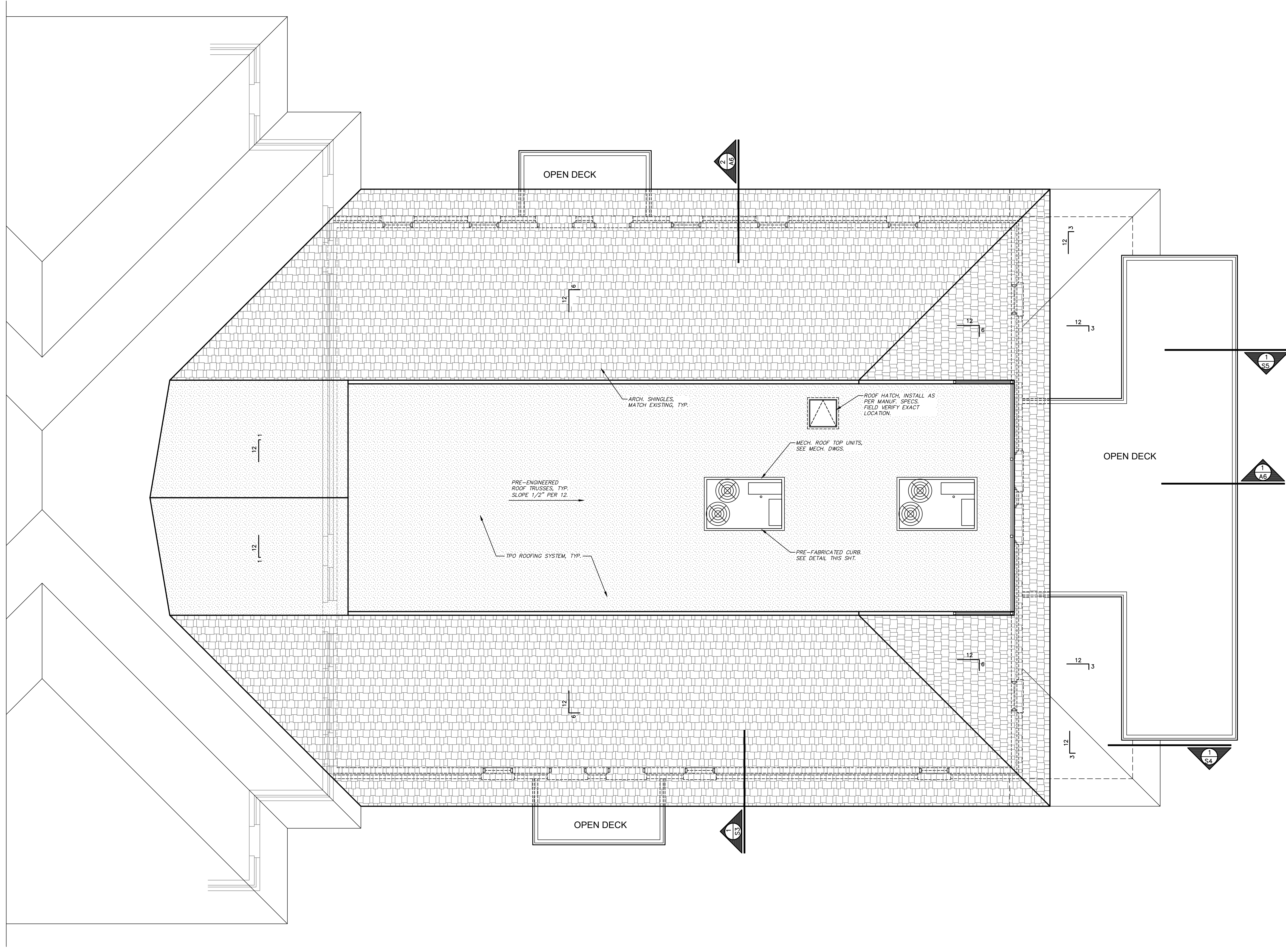


SECTION 2 A6
SCALE: 1/4"=1'-0"

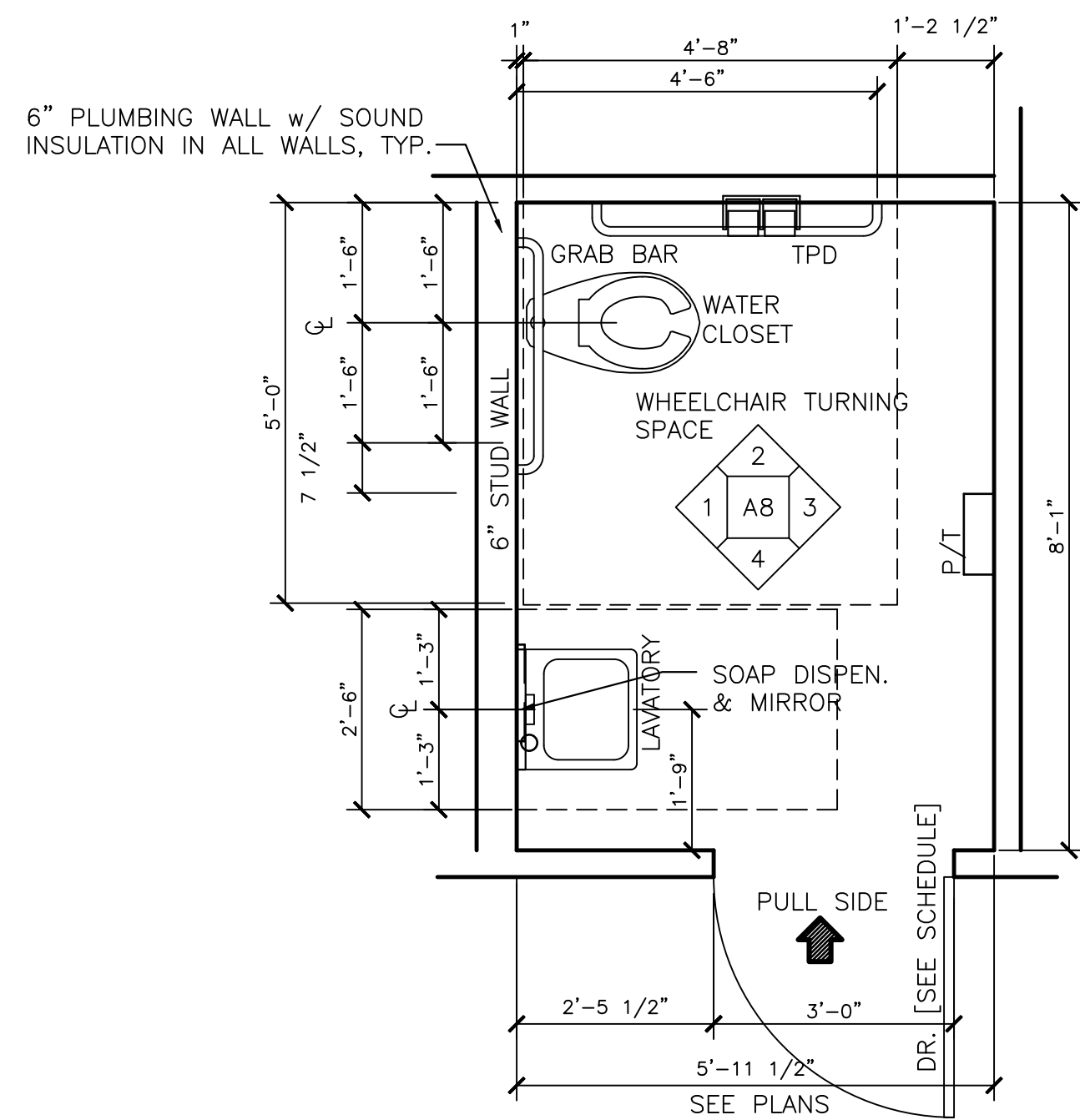


SECTION 1 A6
SCALE: 1/4"=1'-0"

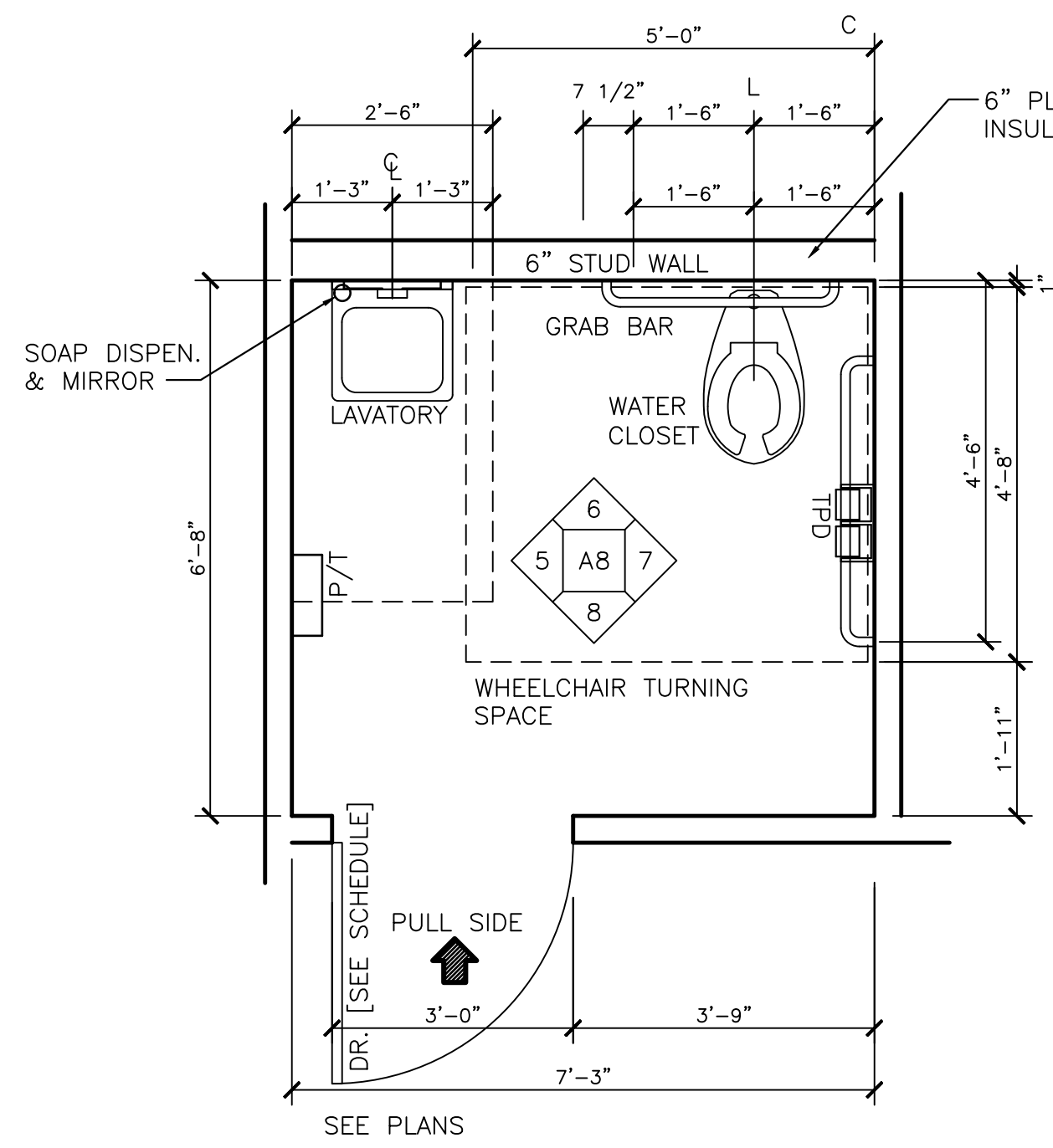
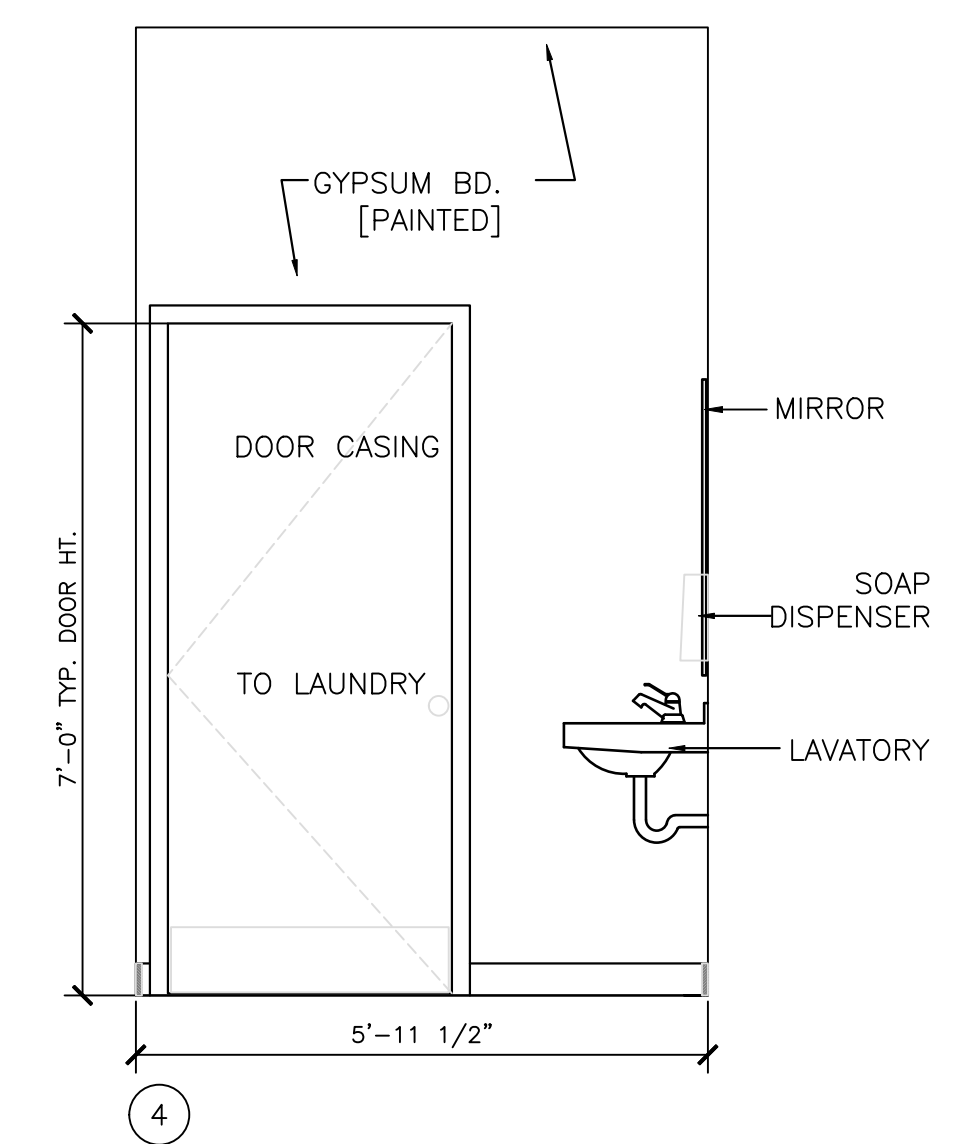
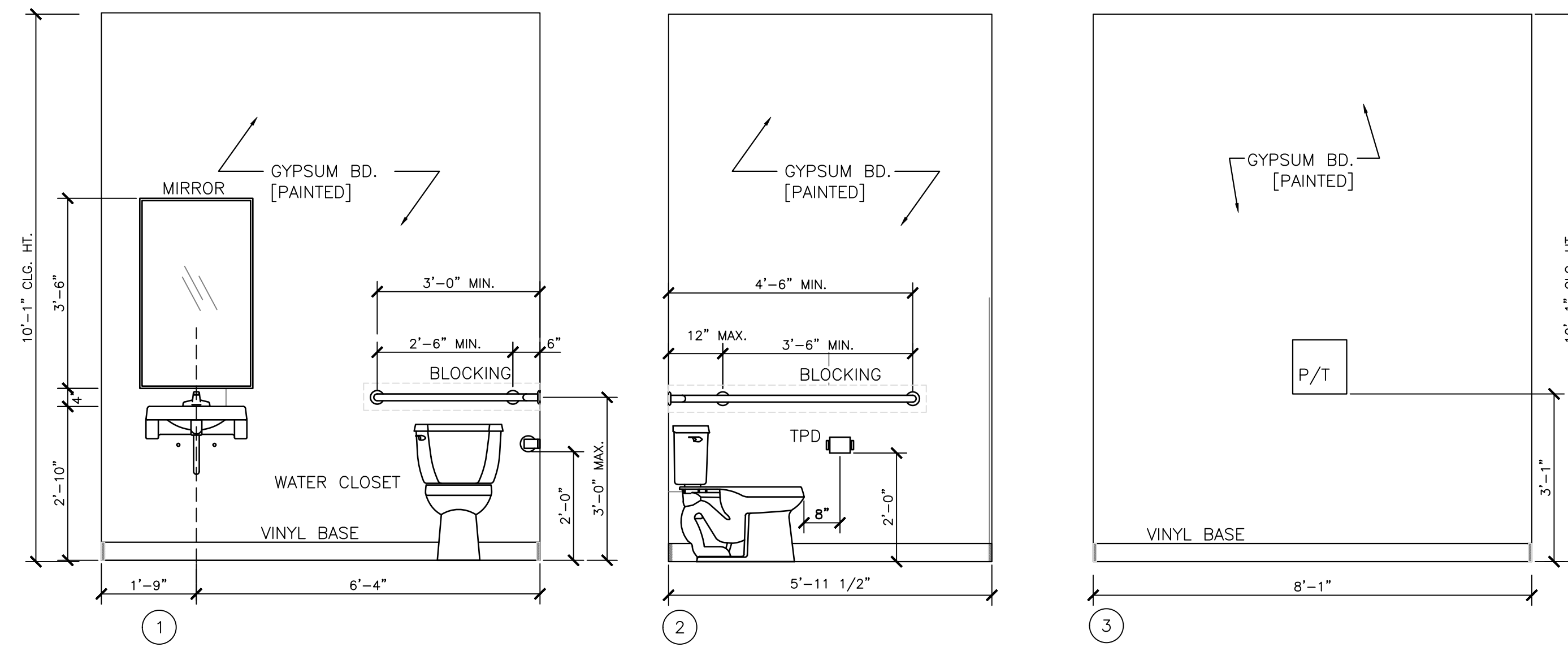
REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N Chatham County	
Building Sections	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	
 Residential - Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
 DEMETRIUS FRANKLIN HOODLESTON REGISTERED ARCHITECT	
SHEET A6 7 OF 38	
COPYRIGHT © 2024 Cadman Designs	



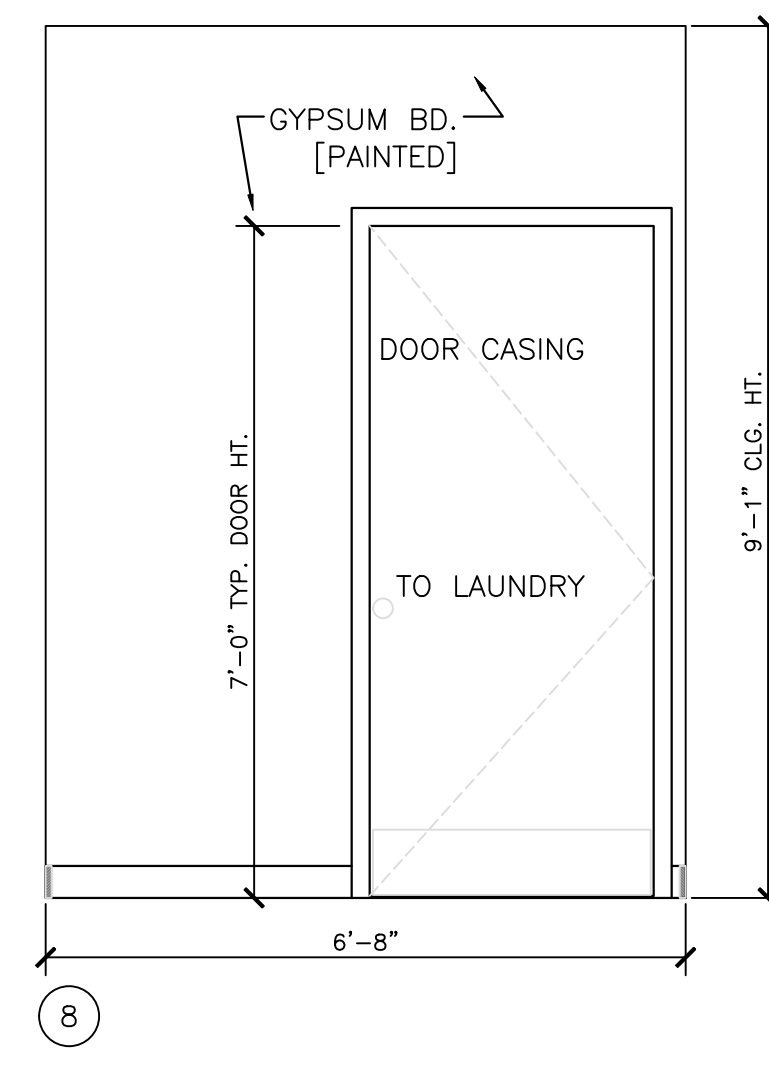
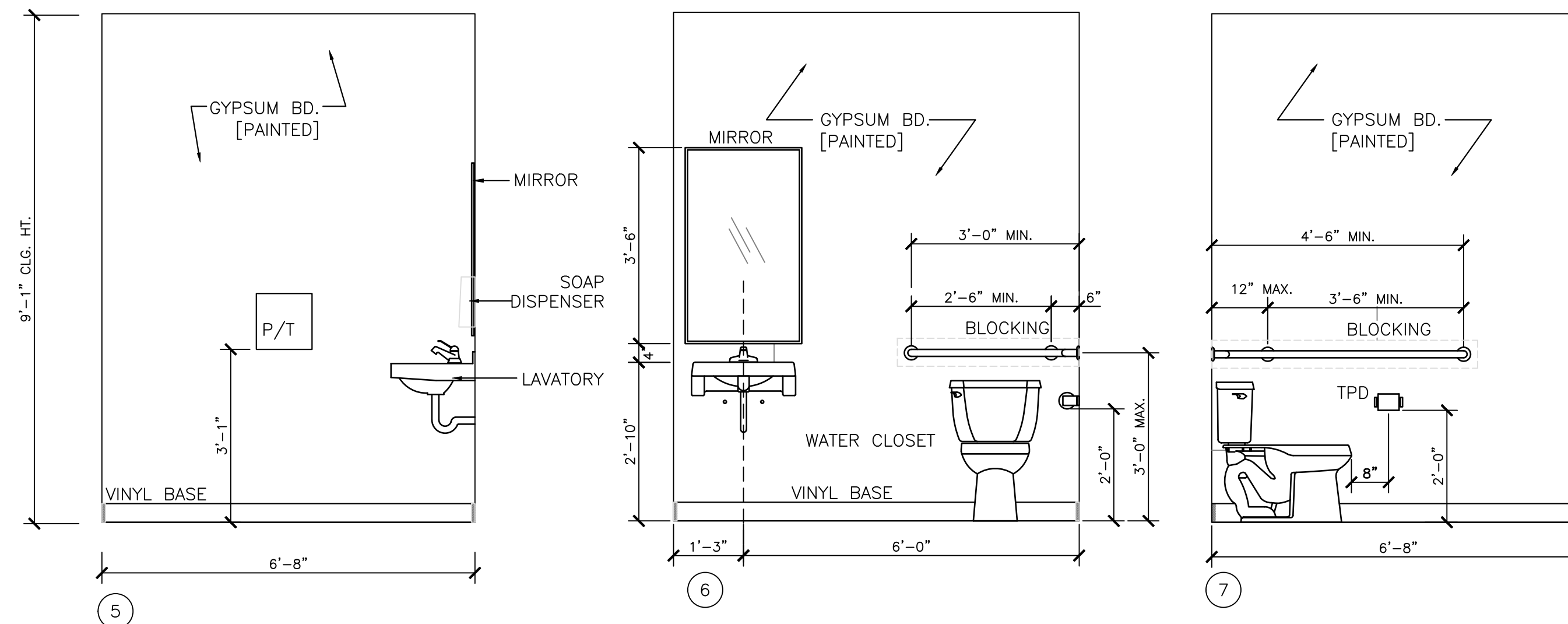
REVISION	
DATE	
NO.	
Office Expansion for City of Portwentworth 7224 SR-21N	
Roof Plan	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	Portwentworth, Georgia
 Residential • Designers • Planners P.O. Box 30443 • Savannah, GA 31410 Office / Fax: 912.949.1800	
SHEET A7	
8 OF 38	
COPYRIGHT © 2024 Cadman Designs	



ENLARGED RESTROOM PLAN & ELEVATIONS ROOM NO. 112 & (111 SIMILAR)
SCALE: 1/2"=1'-0"



ENLARGED RESTROOM PLAN & ELEVATIONS ROOM NO. 211 & (212 SIMILAR)
SCALE: 1/2"=1'-0"



NO.	DATE	REVISION

Office Expansion for
City of Port Wentworth
7224 SR-21N
Chatham County

Enlarged Restroom Plans
DATE: OCT. 2024 SCALE: AS SHOWN CONTR. NO. 24-28
Port Wentworth, Georgia

Cadman Designs LLC
Residential • Designers • Planners
P.O. Box 30443 • Savannah, GA 31410
Office / Fax: 912.349.1800



SHEET
A8
9 OF 38
COPYRIGHT © 2024
Cadman Designs

GENERAL NOTES REFLECTIVE CEILING PLAN:

1. ALL FIRE AND LIFE SAFETY DEVICES SPECIFICATIONS AND LAYOUT TO MEET REQUIREMENTS DETERMINED BY IBC 2018 AND CITY OF SAVANNAH.

3. SURVEY AND BRACE CEILING GRID AND FIXTURES AS REQUIRED BY GOVERNING CODES & REGULATIONS

3. ALL SWITCHES SHALL BE LOCATED AT 40" A.F.F. TO THE CENTERLINE OF COVER PLATE U.N.O. THERMOSTATS SHALL MOUNTED AT 48" A.F.F. TO CENTERLINE DIRECTLY OVER LIGHT SWITCHES.

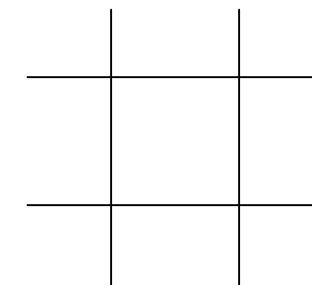

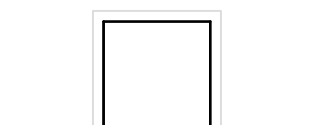
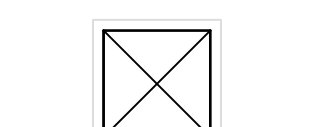
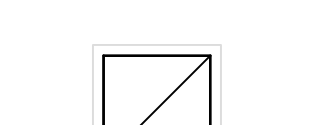
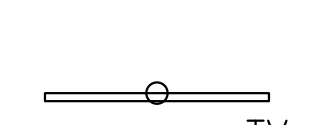
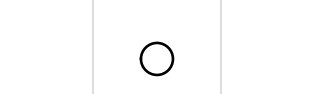
4. AN AVERAGE OF 1.0 FOOT-CANDLES SHALL BE MAINTAINED OVER THE ENTIRE PATH (THIS LEVEL MAY BE DIMINISH TO NOT LESS THAN 0.6 FOOT-CANDLES OVER 1.5 HOURS OF OPERATION) THE BUREAU INSPECTOR WILL METER THE LIGHT LEVELS PROVIDED BY THE INSTALLED SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION. REQUESTING INSPECTIONS AND MAKE CORRECTIONS AS REQUIRED.

5. ALL EMERGENCY LIGHTING, EXIT SIGNS AND FIRE ALARM/LIFE SAFETY AS SHOWN ON LIFE SAFETY PLAN, SHEET A8.

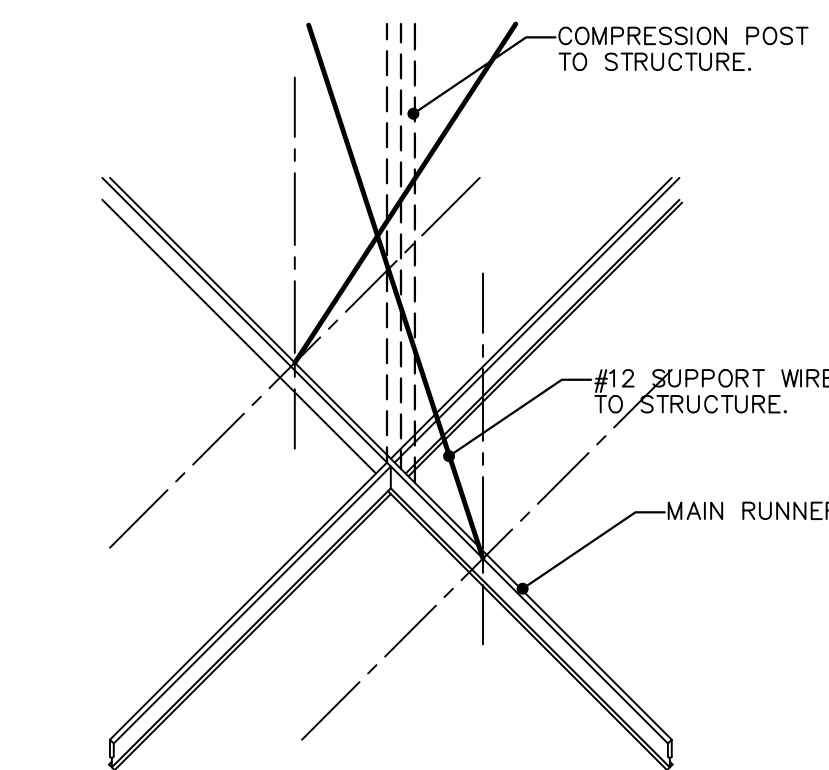
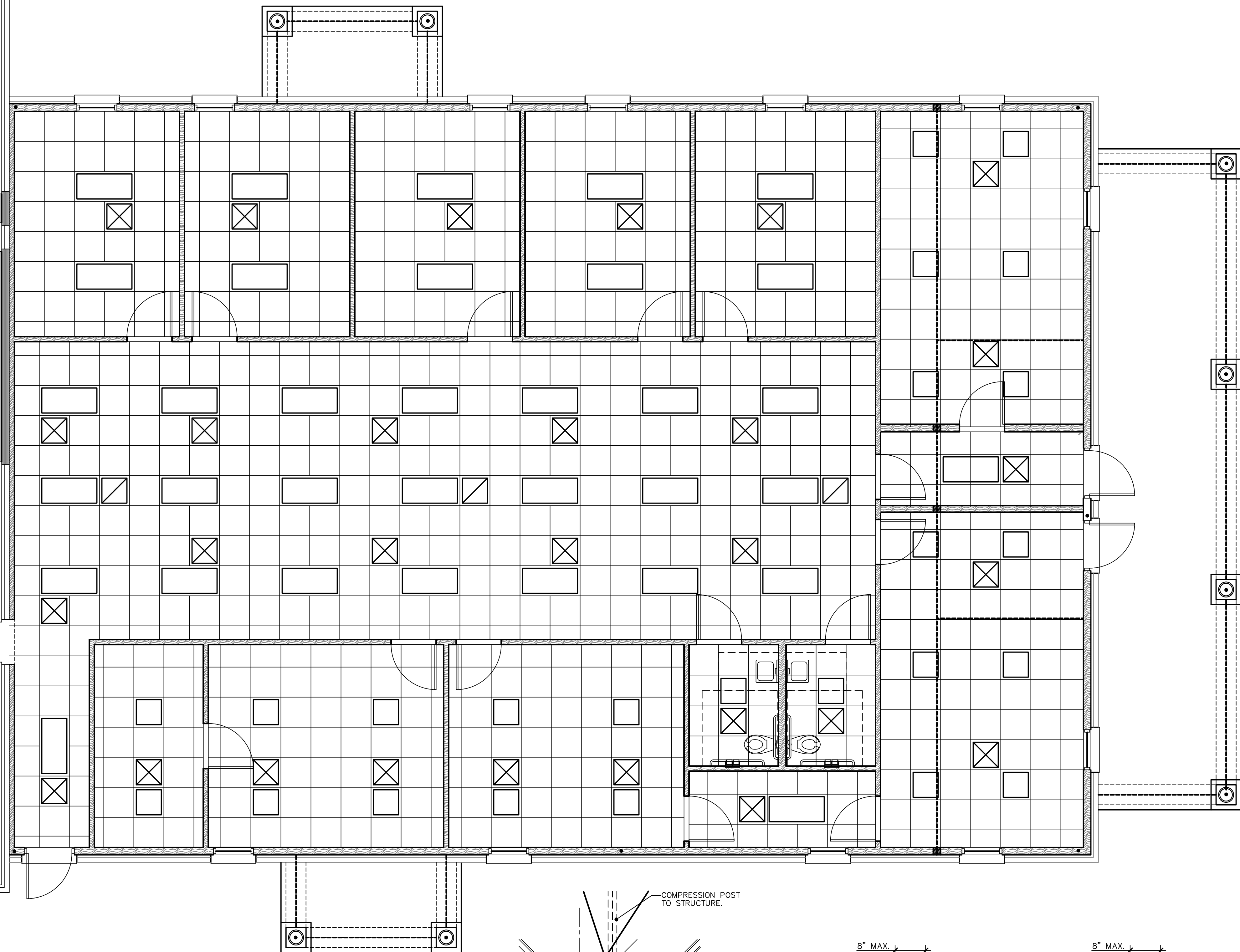
6. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND SYSTEMS FOR LOCATION OF LIGHT FIXTURES, SMOKE DETECTORS AND OTHER CEILING DEVICES U.N.O.

7. FOR LIGHTING AND HVAC LOCATIONS SEE ELECTRICAL AND MECHANICAL DRAWINGS.

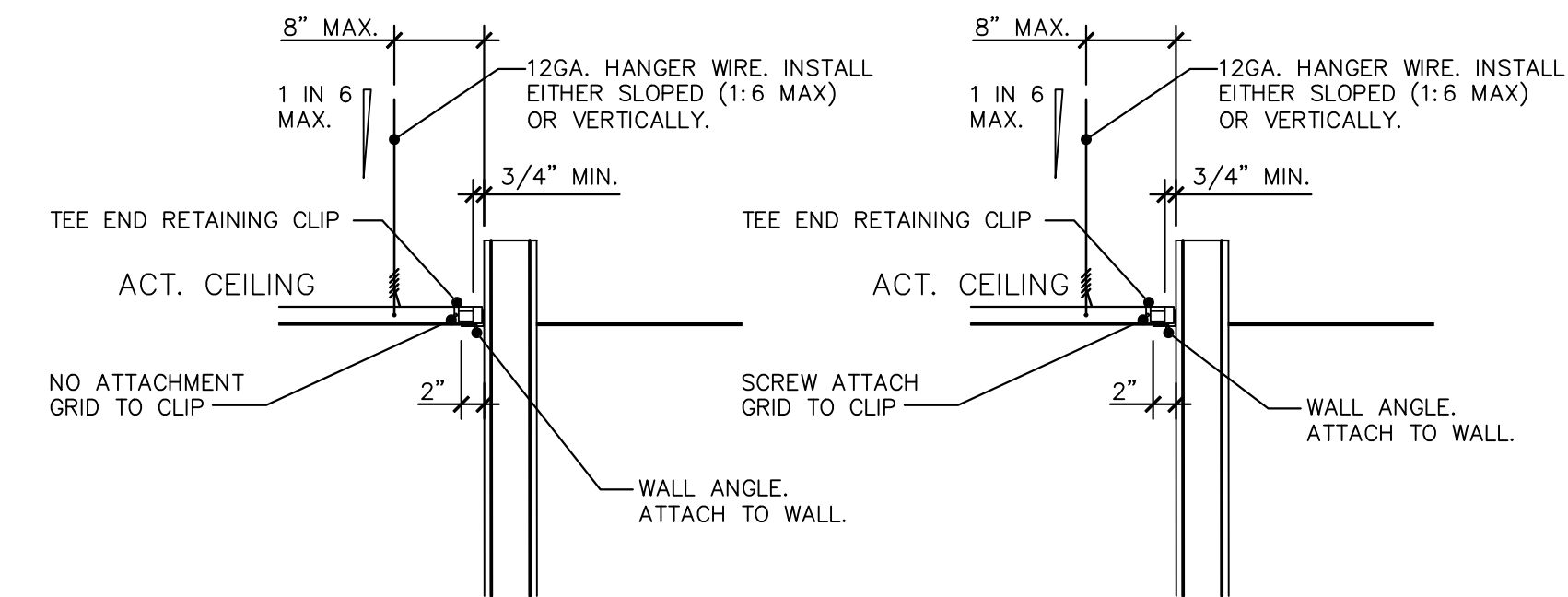
LEGEND:

-  2'x2' FISSURED ACOUSTIC CEILING TILE AND GRID. CEILING SYSTEM PER CISCA STANDARD FOR SEISMIC CATEGORY C.
-  2'x4' RECESSED FLUORESCENT
-  2'x2' RECESSED FLUORESCENT
-  AIR SUPPLY DIFFUSER
-  RETURN-AIR
-  TV MOUNT, LOCATION BY OWNER
-  EF, EXHAUST FAN

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



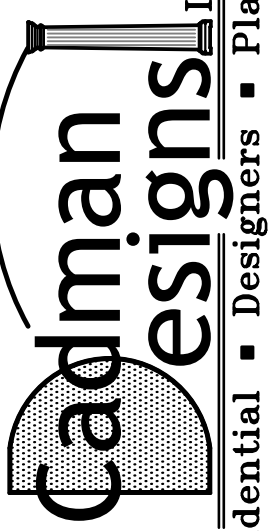
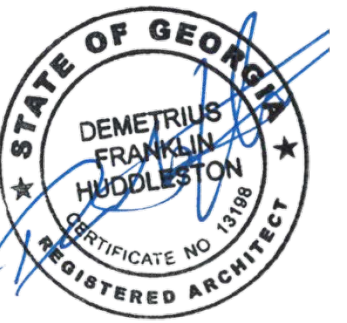
SPLAY BRACING DETAIL
NOT TO SCALE
(REQUIRED FOR ROOMS OVER 1,000 SQ. FT.)



SUSPENDED CEILING DETAILS
NOT TO SCALE

ATTACHMENT NOTES:

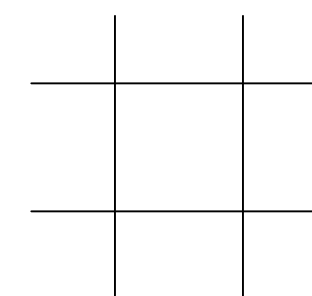
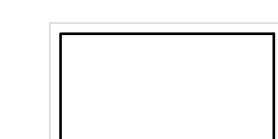
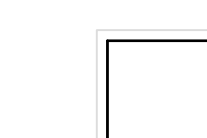


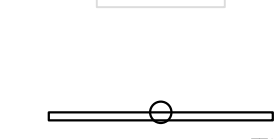

1. CEILING MOUNTED AIR TERMINALS OR SERVICES WEIGHING 20 POUNDS OR LESS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR CROSS RUNNERS.
2. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 20 POUNDS AND LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO NOTED ABOVE TWO #12 GAUGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. WIRES MAY BE SLACK.
3. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

REVISION		Office Expansion for City of Portwentworth 7224 SR-21N	First Floor Reflective Ceiling Plan	DATE: OCT. 2024	SCALE: AS SHOWN	CONTR. NO. 24-28	Portwentworth, Georgia
DATE							
NO							
		Residential Designers - Planners P.O. Box 30443 • Savannah, GA 31410 Office / Fax: 912.349.1800				SHEET A9 10 OF 38	COPYRIGHT © 2024 Cadman Designs

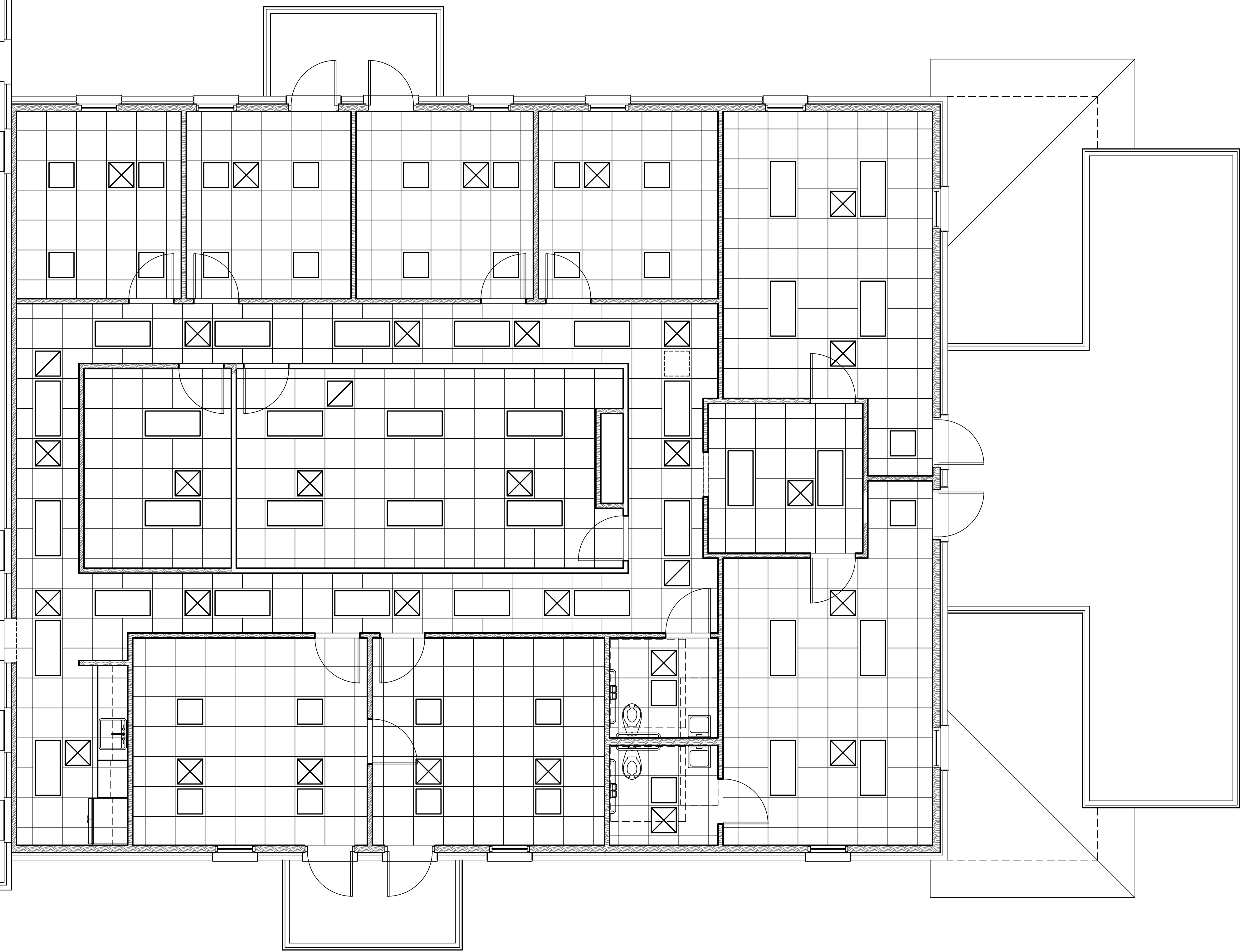
GENERAL NOTES REFLECTIVE CEILING PLAN:

1. ALL FIRE AND LIFE SAFETY DEVICES SPECIFICATIONS AND LAYOUT TO MEET REQUIREMENTS DETERMINED BY IBC 2018 AND CITY OF SAVANNAH.
3. SURVEY AND BRACE CEILING GRID AND FIXTURES AS REQUIRED BY GOVERNING CODES &
3. ALL SWITCHES SHALL BE LOCATED AT 40" A.F.F. TO THE CENTERLINE OF COVER PLATE U.N.O. THERMOSTATS SHALL MOUNTED AT 48" A.F.F. TO CENTERLINE DIRECTLY OVER LIGHT SWITCHES.
4. AN AVERAGE OF 1.0 FOOT-CANDLES SHALL BE MAINTAINED OVER THE ENTIRE PATH (THIS LEVEL MAY BE DIMINISH TO NOT LESS THAN 0.6 FOOT-CANDLES OVER 1.5 HOURS OF OPERATION) THE BUREAU INSPECTOR WILL METER THE LIGHT LEVELS PROVIDED BY THE INSTALLED SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION. REQUESTING INSPECTIONS AND MAKE CORRECTIONS AS REQUIRED.
5. ALL EMERGENCY LIGHTING, EXIT SIGNS AND FIRE ALARM/LIFE SAFETY AS SHOWN ON LIFE SAFETY PLAN, SHEET A8.
6. COORDINATE WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND SYSTEMS FOR LOCATION OF LIGHT FIXTURES, SMOKE DETECTORS AND OTHER CEILING DEVICES U.N.O.
7. FOR LIGHTING AND HVAC LOCATIONS SEE ELECTRICAL AND MECHANICAL DRAWINGS.

LEGEND:

-  2'x2' FISSURED ACOUSTIC CEILING TILE AND GRID. CEILING SYSTEM PER CISCA STANDARD FOR SEISMIC CATEGORY C.
-  2'x4' RECESSED FLUORESCENT
-  2'x2' RECESSED FLUORESCENT
-  AIR SUPPLY DIFFUSER
-  RETURN-AIR
-  TV MOUNT, LOCATION BY OWNER
-  EF, EXHAUST FAN

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



REVISION	
DATE	
NO.	

Office Expansion for
City of Port Wentworth
7224 SR-21N
Chatham County

Second Floor Reflective Ceiling Plan
DATE: OCT. 2024 SCALE: AS SHOWN CONTR. NO. 24-28
Port Wentworth, Georgia

**Cadman
esigns** LLC
Residential • Designers • Planners
P.O. Box 30443 • Savannah, GA 31410
Office / Fax: 912.949.1800



SHEET
A10
11 OF 38

COPYRIGHT © 2024
Cadman_Designs

DOOR AND WINDOW SCHEDULE (NOTE: INSTALL WEATHER STRIPPING ON ALL EXTERIOR DOORS AND WINDOWS)						
DOOR						
MARK	TYPE	SIZE	FINISH	FRAME	REMARKS	
1	A	3'-0" X 7'-0"	--	WD	EXTERIOR DOOR, FRENCH - FIBERGLASS	
2	B	3'-0" X 7'-0"	SGF/OUT SGF/IN	WD	INTERIOR SOLID CORE DOOR - WOOD	
3	C	3'-0" X 7'-0"	SGF/OUT SGF/IN	WD	INTERIOR DOOR, 2/3 LITE - WOOD	
4	--	3'-0" X 7'-0"	--	WD	CASED OPENING	
A	2'-8" x 6'-0"	--	VINYL	INSULATED GLASS, DBL. HUNG - ANDERSON WDH26510 OR EQUAL.		
B	2'-8" x 5'-4"	--	VINYL	INSULATED GLASS, DBL. HUNG - ANDERSON WDH2652 OR EQUAL.		
C	2'-8" x 3'-4"	--	VINYL	INSULATED GLASS, DBL. HUNG - ANDERSON WDH2632 OR EQUAL.		

NOTES:

- ALL EXTERIOR DOORS TO HAVE THRESHOLDS AND WEATHERSTRIPPING.
- ALL INTERIOR DOORS TO HAVE FLOOR MOUNTED DOOR STOPS WHERE REQUIRED.
- ALL CEILINGS TO HAVE INSULATION.
- SEE INTERIOR DOOR FRAME DETAIL SHT. A-5.
- SEE FRAME DETAILS THIS SHEET.
- DP RATING AS PER LOCAL CODE.

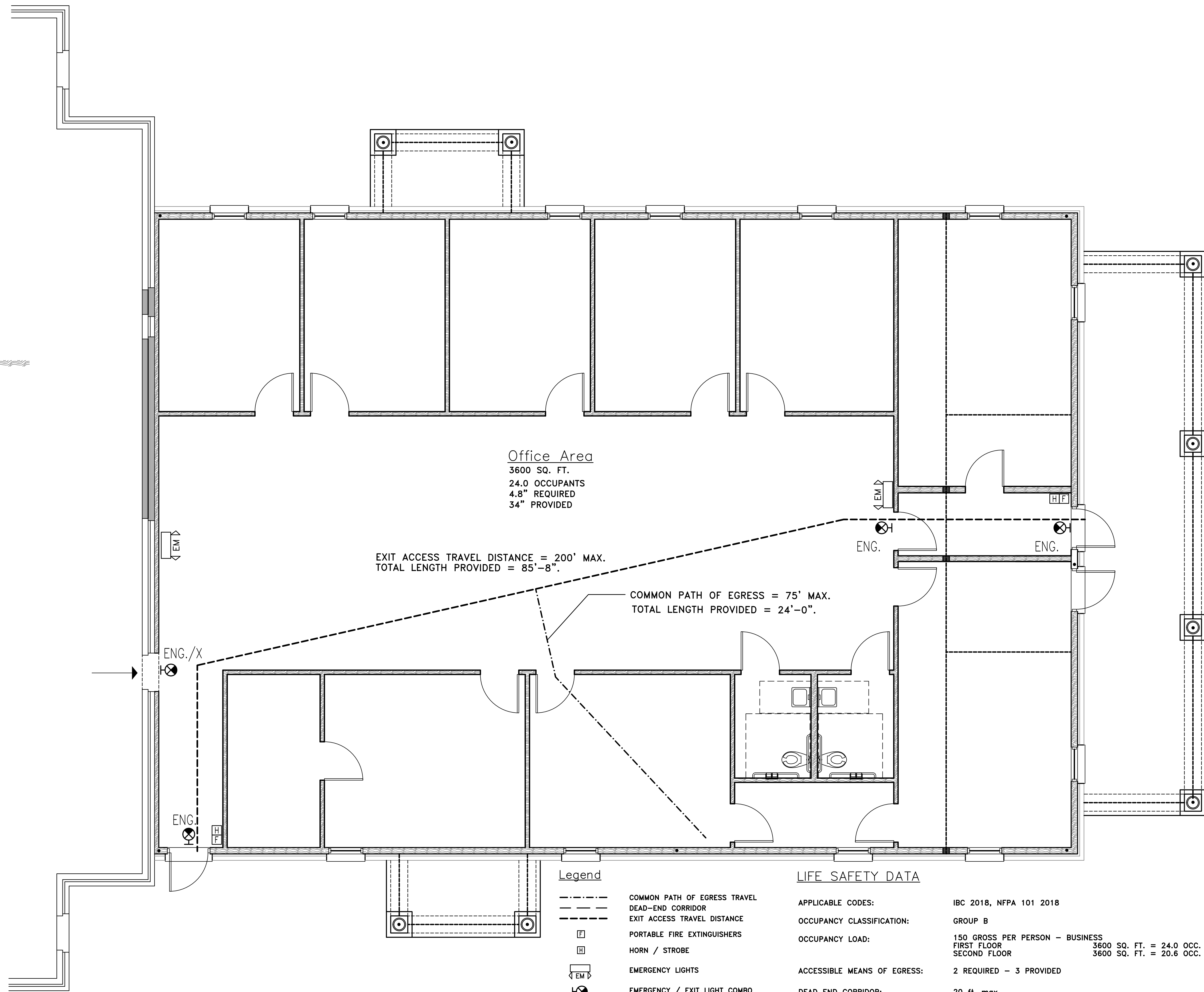
ROOM FINISH SCHEDULE FIRST FLOOR							
AREA	ROOM NO.	FLOOR	WALLS	BASE	CEILING		REMARKS
		FIN.	FIN.	FIN.	FIN.	HT.	
HALLWAY	100	C	DW	V	ACT	10'-0"	
		LVP	SGF	--	--	--	
OPEN OFFICE AREA	101	C	DW	V	ACT	10'-0"	
		LVP	SGF	--	--	--	
OFFICE	102	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	103	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	104	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	105	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	106	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	107	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
CORRIDOR	108	C	DW	V	ACT	10'-0"	
		LVP	SGF	--	--	--	
OFFICE	109	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
PRIVATE	110	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
MEN'S	111	C	DW	C	ACT	10'-0"	
		LVP	CT	CT	--	--	
WOMEN'S	112	C	DW	C	ACT	10'-0"	
		LVP	CT	CT	--	--	
OFFICE	113	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
OFFICE	114	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	
FILE ROOM	115	C	DW	V	ACT	10'-0"	
		LVP	FF	--	--	--	

C/CONCRETE HC/HARDENED CONCRETE V/VINYL DW/DRYWALL PWD/PLYWOOD HM/HOLLOW METAL EGF/EGGSHELL PAINT FINISH
 WRDW/WATER RESISTANT DRYWALL SGF/SEMI GLOSS PAINT FINISH FF/FLAT PAINT FINISH ST/STAIN FINISH ACT/ACOUSTICAL CEILING TILE
 CMU/CONCRETE MASONRY UNIT CT/CERAMIC TILE S/SPECS GF/ GLOSS FINISH AST/ANTI STATIC TILE CP/CARPET ML/METAL LINER PANEL
 VCT/VINYL COMPOSITION TILE PL/PLASTIC LAMINATE NSS/NON-SLIP CONCRETE FINISH WITH NON-PERMEABLE SEALER CAPO/COLOR AS PER OWNER
 LVP/LUXURY VINYL PLANK PT/PORCELAIN

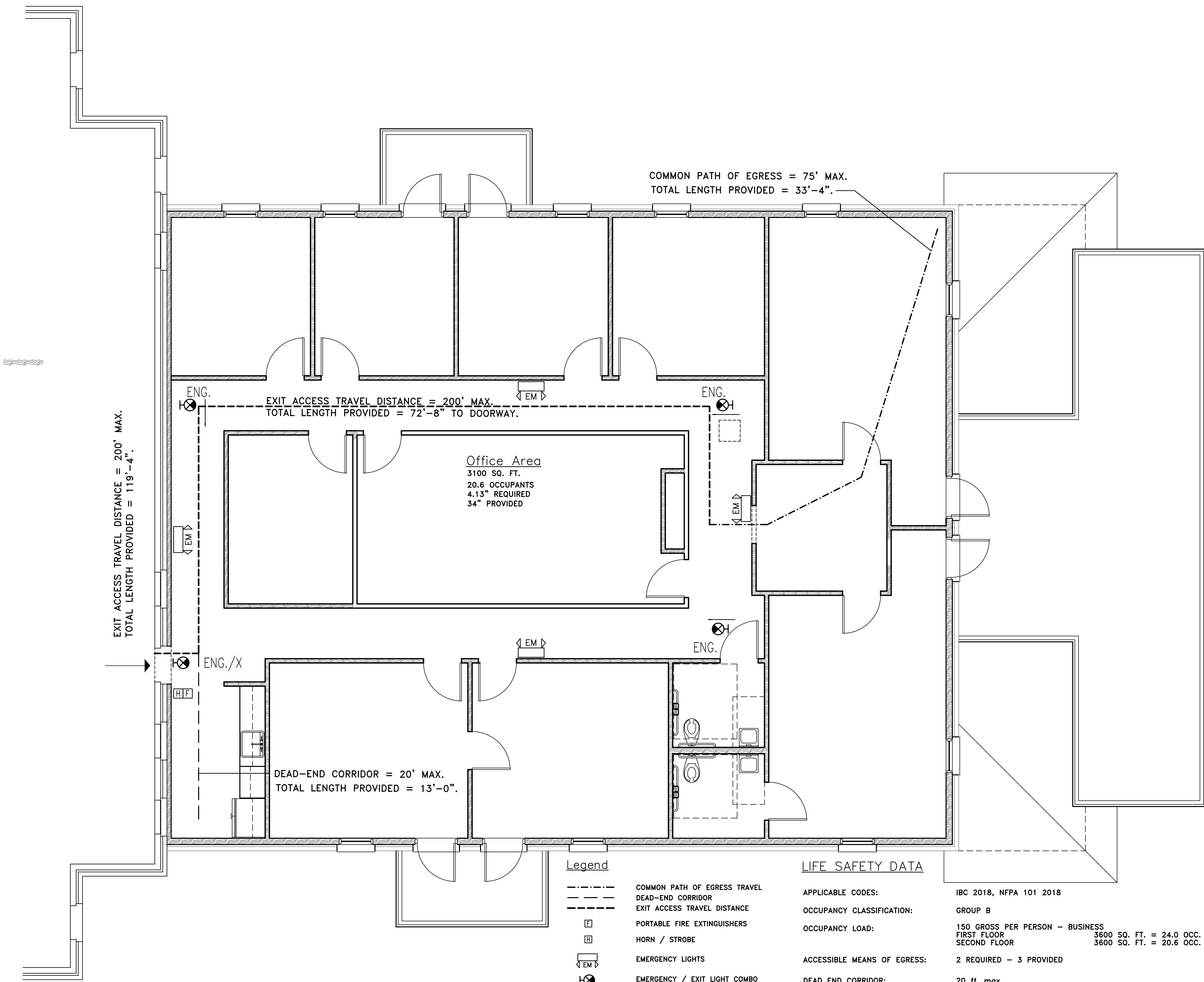
ROOM FINISH SCHEDULE SECOND FLOOR							
AREA	ROOM NO.	FLOOR	WALLS	BASE	CEILING		REMARKS
		FIN.	FIN.	FIN.	FIN.	HT.	
CORRIDOR	200	C	DW	V	ACT	9'-0"	
		LVP	SGF	--	--	--	
BREAKROOM	201	C	DW	V	ACT	9'-0"	
		LVP	SGF	--	--	--	
STORAGE	202	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
CONFERENCE	203	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	204	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	205	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	206	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	207	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	208	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
RECEPTION	209	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	210	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
RESTROOM	211	C	DW	C	ACT	9'-0"	
		LVP	CT	CT	--	--	
UNI-SEX	212	C	DW	C	ACT	9'-0"	
		LVP	CT	CT	--	--	
OFFICE	213	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	
OFFICE	214	C	DW	V	ACT	9'-0"	
		LVP	FF	--	--	--	

C/CONCRETE HC/HARDENED CONCRETE V/VINYL DW/DRYWALL PWD/PLYWOOD HM/HOLLOW METAL EGF/EGGSHELL PAINT FINISH
 WRDW/WATER RESISTANT DRYWALL SGF/SEMI GLOSS PAINT FINISH FF/FLAT PAINT FINISH ST/STAIN FINISH ACT/ACOUSTICAL CEILING TILE
 CMU/CONCRETE MASONRY UNIT CT/CERAMIC TILE S/SPECS GF/ GLOSS FINISH AST/ANTI STATIC TILE CP/CARPET ML/METAL LINER PANEL
 VCT/VINYL COMPOSITION TILE PL/PLASTIC LAMINATE NSS/NON-SLIP CONCRETE FINISH WITH NON-PERMEABLE SEALER CAPO/COLOR AS PER OWNER
 LVP/LUXURY VINYL PLANK PT/PORCELAIN

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N Chatham County, Georgia	
Schedules and Notes	
 Residential - Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.349.1800	
SHEET A11 12 OF 38 COPYRIGHT © 2024 Cadman Designs	



REVISION	
DATE	
NO.	
Office Expansion for City of Portwentworth 7224 SR-21N	
First Floor Life Safety Plan	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	Portwentworth, Georgia
Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.349.1800	
SHEET	
L1	
13 OF 38	
COPYRIGHT © 2024 Cadman Designs	



EXIT ACCESS TRAVEL DISTANCE = 200' MAX.
TOTAL LENGTH PROVIDED = 119'-4".

EXIT ACCESS TRAVEL DISTANCE = 200' MAX.
TOTAL LENGTH PROVIDED = 72'-8" TO DOORWAY.

COMMON PATH OF EGRESS = 75' MAX.
TOTAL LENGTH PROVIDED = 33'-4".

Office Area
3100 SQ. FT.
20.6 OCCUPANTS
4.13" REQUIRED
34" PROVIDED

DEAD-END CORRIDOR = 20' MAX.
TOTAL LENGTH PROVIDED = 13'-0".

Legend

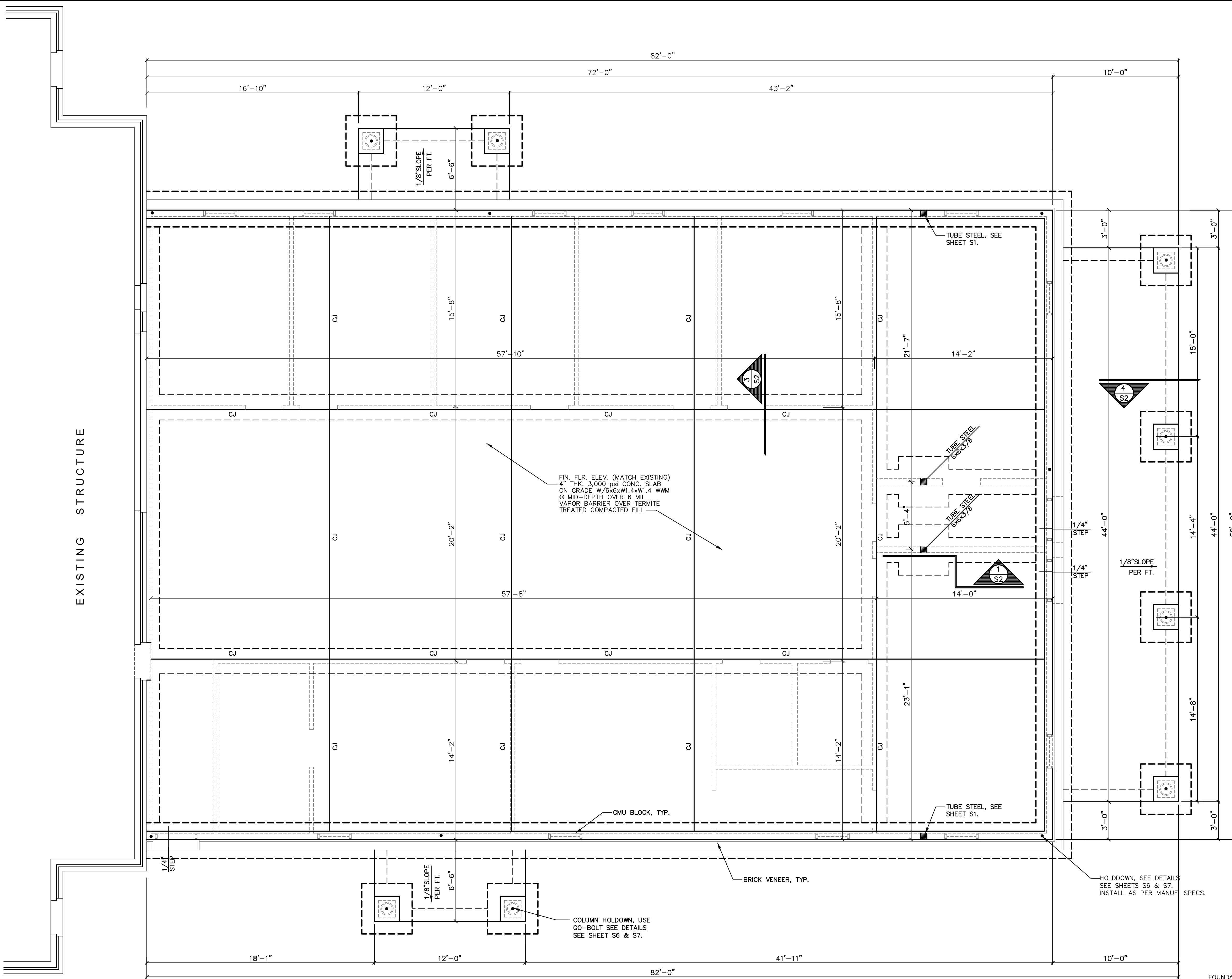
- COMMON PATH OF EGRESS TRAVEL
- - - DEAD-END CORRIDOR
- - - EXIT ACCESS TRAVEL DISTANCE
- ☒ PORTABLE FIRE EXTINGUISHERS
- ☒ HORN / STROBE
- EM EMERGENCY LIGHTS
- ENG/ENG,X EMERGENCY / EXIT LIGHT COMBO
- ENG EXIT LIGHT

LIFE SAFETY DATA

APPLICABLE CODES:	IBC 2018, NFPA 101 2018
OCCUPANCY CLASSIFICATION:	GROUP B
OCCUPANCY LOAD:	150 GROSS PER PERSON - BUSINESS FIRST FLOOR 3600 SQ. FT. = 24.0 OCC. SECOND FLOOR 3600 SQ. FT. = 20.6 OCC.
ACCESSIBLE MEANS OF EGRESS:	2 REQUIRED - 3 PROVIDED
DEAD END CORRIDOR:	20 ft. max.
COMMON PATH OF EGRESS TRAVEL:	75 ft max.
EXIT ACCESS TRAVEL DISTANCE:	200 ft max.

- NOTES:
- ALL SIGNAGE SHALL BE IN ACCORDANCE WITH IBC 2018 SECTION 1110. REFER TO PLAN FOR GENERAL LOCATIONS.
 - SEE ELECTRICAL FLOOR PLAN(S) FOR ALL SIGNAGE AND ALARM ELECTRICAL IMPROVEMENTS AND SYMBOL LEGEND.
 - PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALL AS PER 2018 IFC SECTION 906.9, TABLE 906.3(1) AND 906.3(2).

REVISION									
DATE									
NO.									
Office Expansion for City of Portwentworth		7224 SR-21N		Chatham County					
Second Floor Life Safety Plan		AS SHOWN		CONTR. NO. 24-28					
DATE: OCT. 2024		SCALE:		PORTWENTWORTH, GEORGIA					
Cadman Designs LLC Residential - Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.349.1800									
DEMETRIUS FRANKSTON REGISTERED ARCHITECT									
SHEET L2 14 OF 38									
COPYRIGHT © 2024 Cadman Designs									

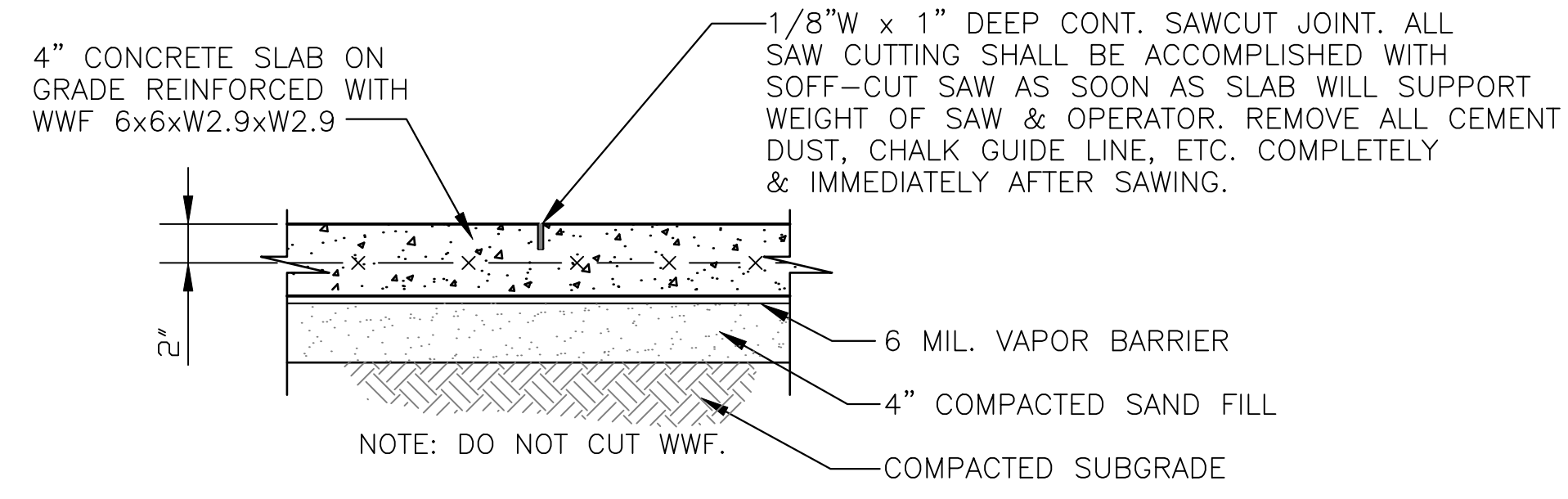


EXISTING STRUCTURE

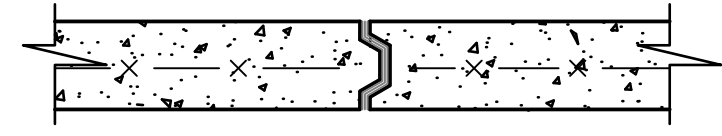
FOUNDATION PLAN
SCALE: 1/4"=1'-0"

- FOUNDATION NOTES:
1. CONCRETE SHALL DEVELOP 3000 PSI AT 28 DAYS. FLY ASH IS NOT ALLOWED IN THE CONCRETE MIX.
 2. COMPACTION REQUIREMENTS: (STD. PROCTOR) UNDER FOOTING: 98%, UNDER SLAB: 97%.
 3. SOIL BEARING VALUE: 2000 SF
 4. REINFORCEMENT SHALL CONFORM TO ASTM A 615, GR 60.
 5. LAP CONTINUOUS BARS AT 30 BAR DIAMETERS. WHERE REQUIRED PROVIDE CORNER BARS AT CORNERS.
 6. MINIMUM CONCRETE PROTECTION OF REINFORCING STEEL, UNLESS OTHERWISE NOTES:
FOOTINGS (BOTTOM AND SIDES).....3" CLEAR
PIERS OR COLUMNS BELOW GRADE.....3" CLEAR
PIERS OR COLUMNS ABOVE GRADE.....1 1/2" CLEAR
 7. CONCRETE SLAB ON GRADE MINIMUM REINFORCEMENT TO BE 6 X 6 1.4/1.4 WWF PER CUBIC YARD. FIBER MANUFACTURERS MUST DOCUMENT EVIDENCE PER CUBIC YARD. FIBER MANUFACTURERS MUST DOCUMENT EVIDENCE OF FIVE YEARS SATISFACTORY PERFORMANCE HISTORY. COMPLIANCE WITH APPLICABLE BUILDING CODES AND ASTM C-1116, TYPE III.
 8. VERIFY FINISH FLOOR ELEVATION WITH THE SITE PLAN.
 9. BOTTOM OF ALL FOOTINGS SHALL BE 12 INCHES MINIMUM BELOW FINISH GRADE. SEE FOUNDATION PLAN FOR ELEVATION OF TOP OF FOOTINGS.
 10. STEP FOOTINGS BELOW THE PLUMBING LINES. COORDINATE LINE DEPTH AND LOCATION WITH THE PLUMBING CONTRACTOR.
 11. ALL CONCRETE WORK SHALL CONFORM TO A.C.I. 301 REQUIREMENTS.

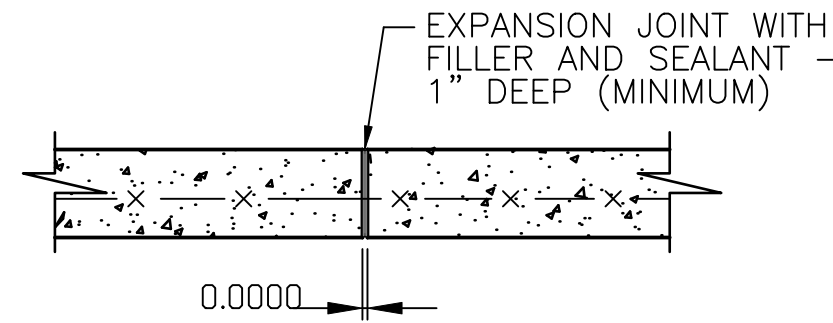
REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N	
Foundation Plan	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	Port Wentworth, Georgia
Residential Designers - Planners P.O. Box 30443 • Savannah, GA 31410 Office / Fax: 912.349.1800	
SHEET S1 15 OF 38	
COPYRIGHT © 2024 Cadman Designs	



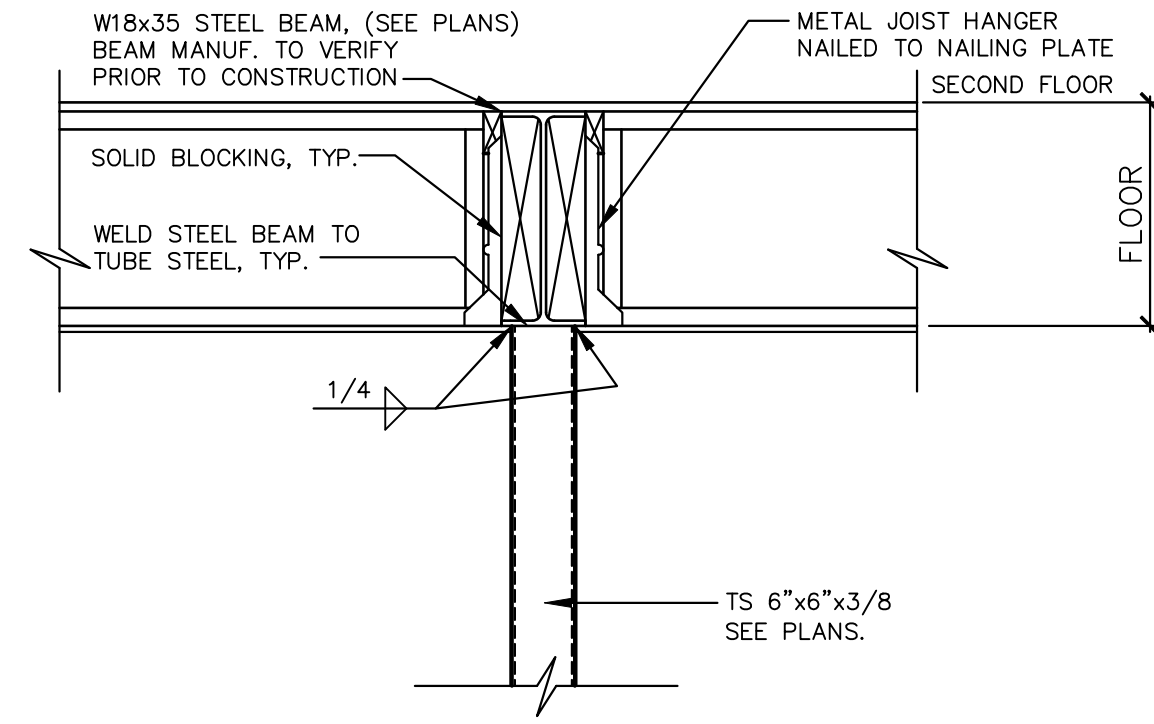
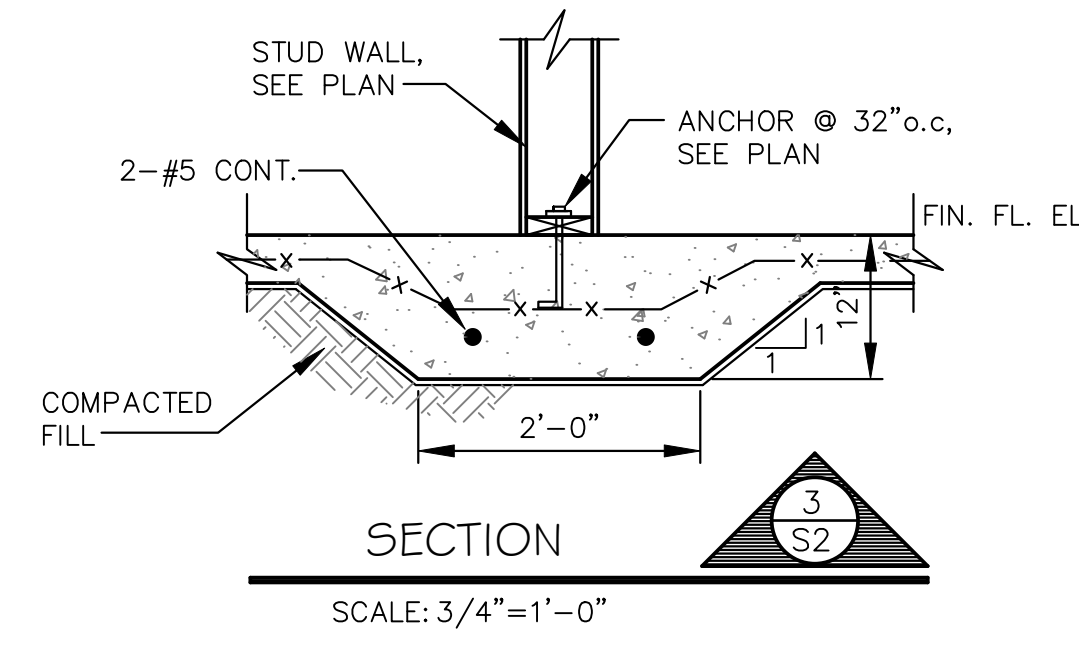
SAWED CONTROL JOINT DETAIL (SJ)
SCALE: 1" = 1'-0"



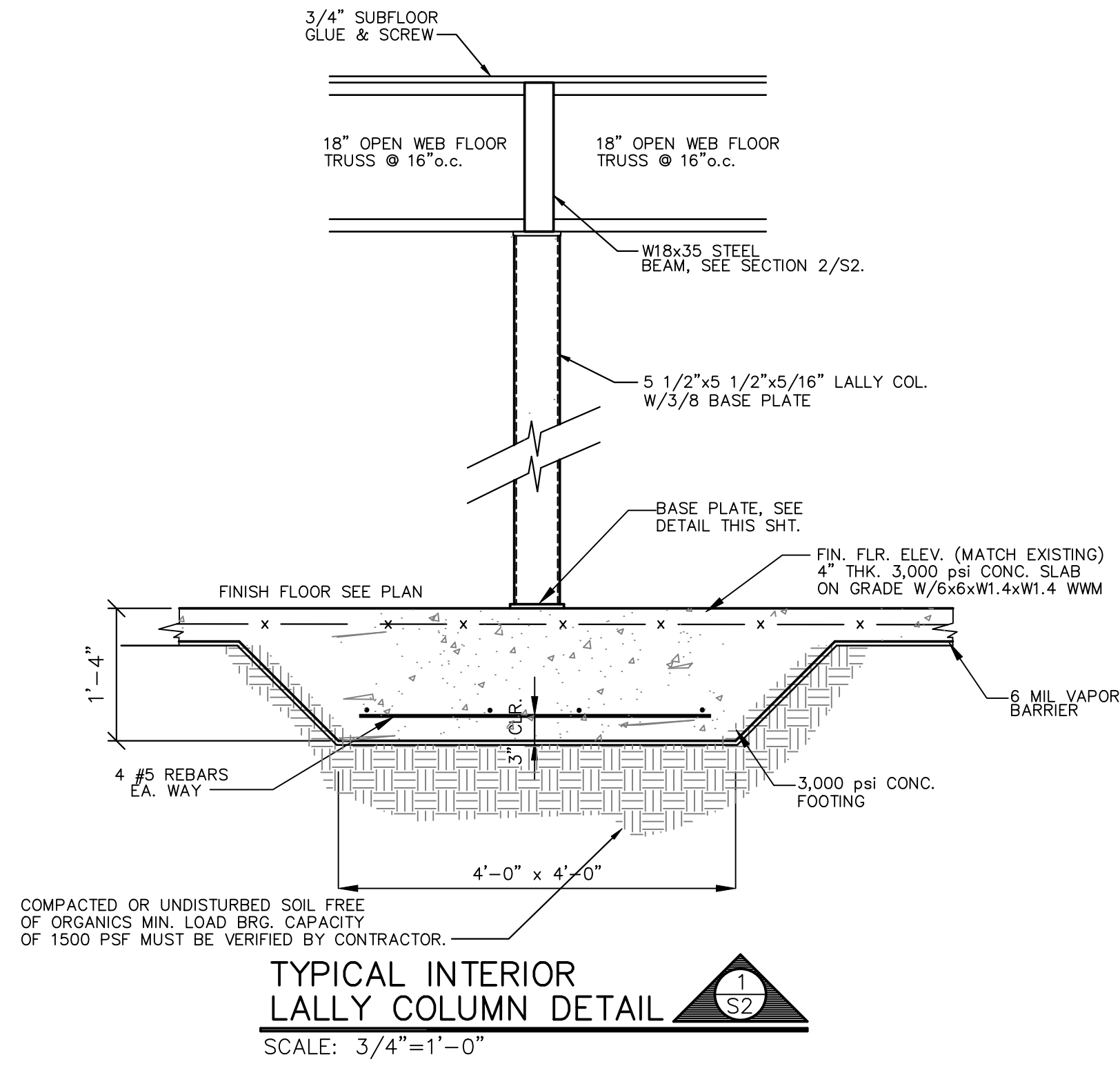
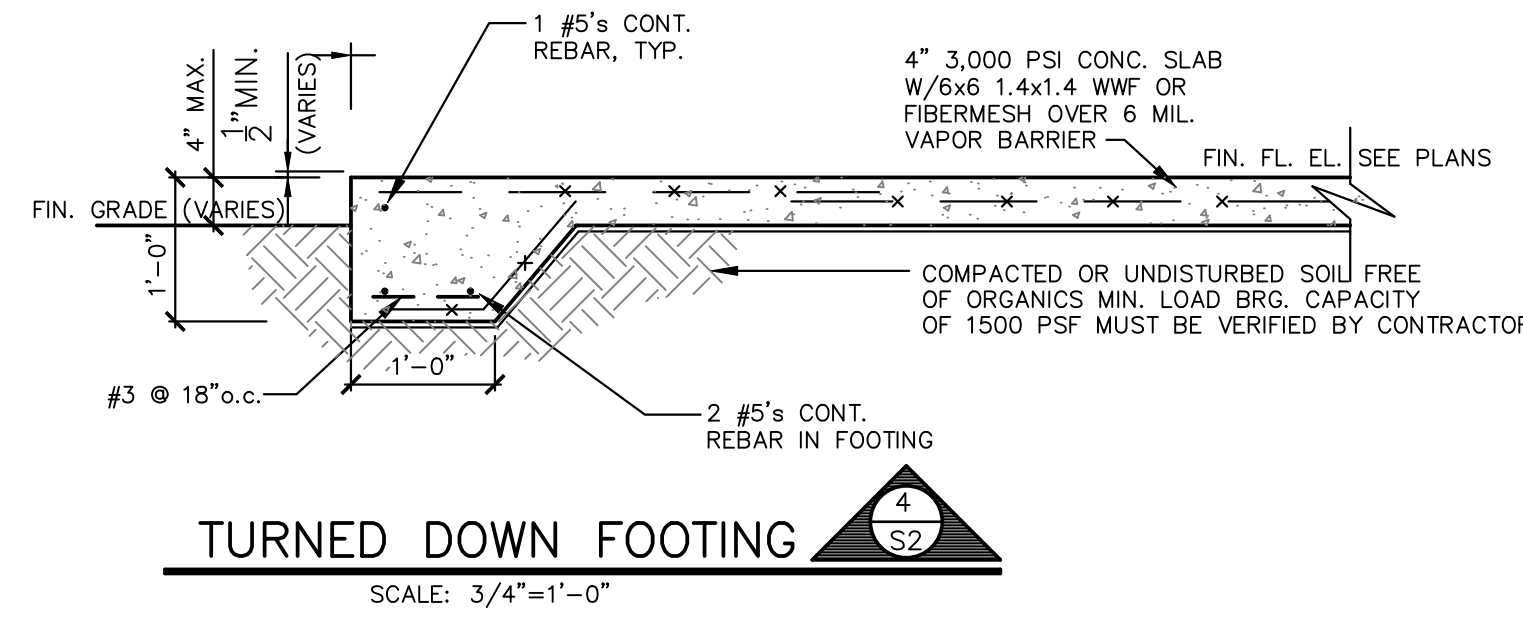
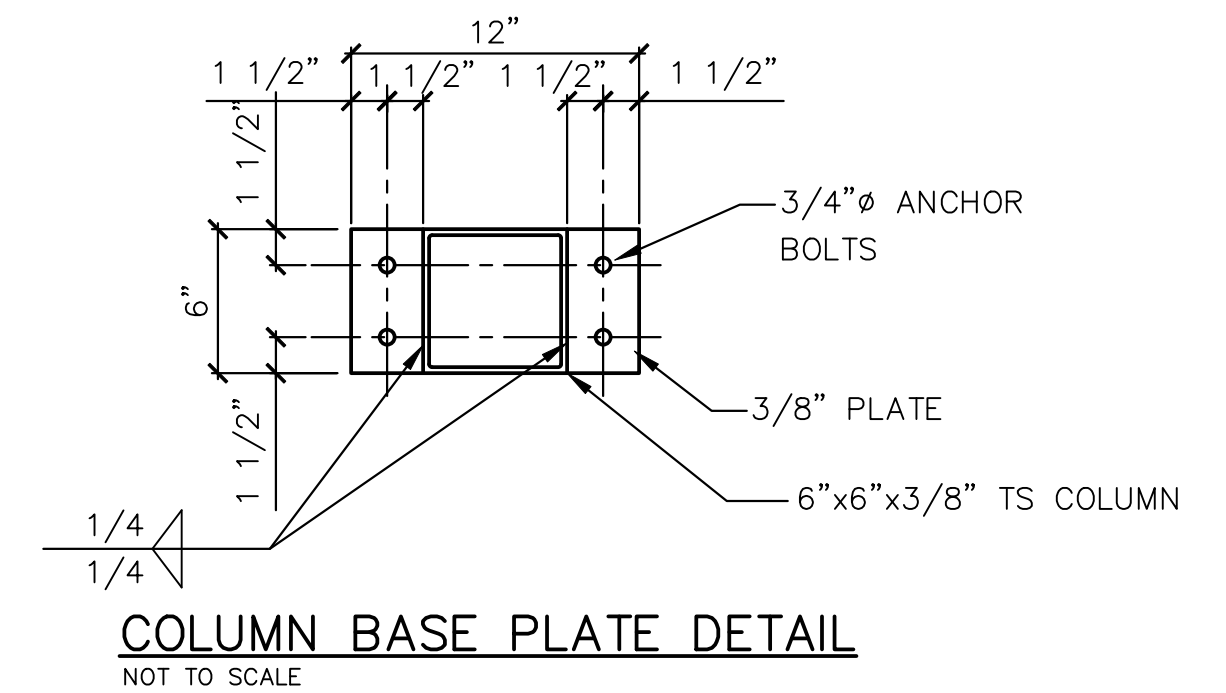
CONSTRUCTION JOINT DETAIL (CJ)
SCALE: 1" = 1'-0"



EXPANSION JOINT DETAIL (EJ)
SCALE: 1" = 1'-0"

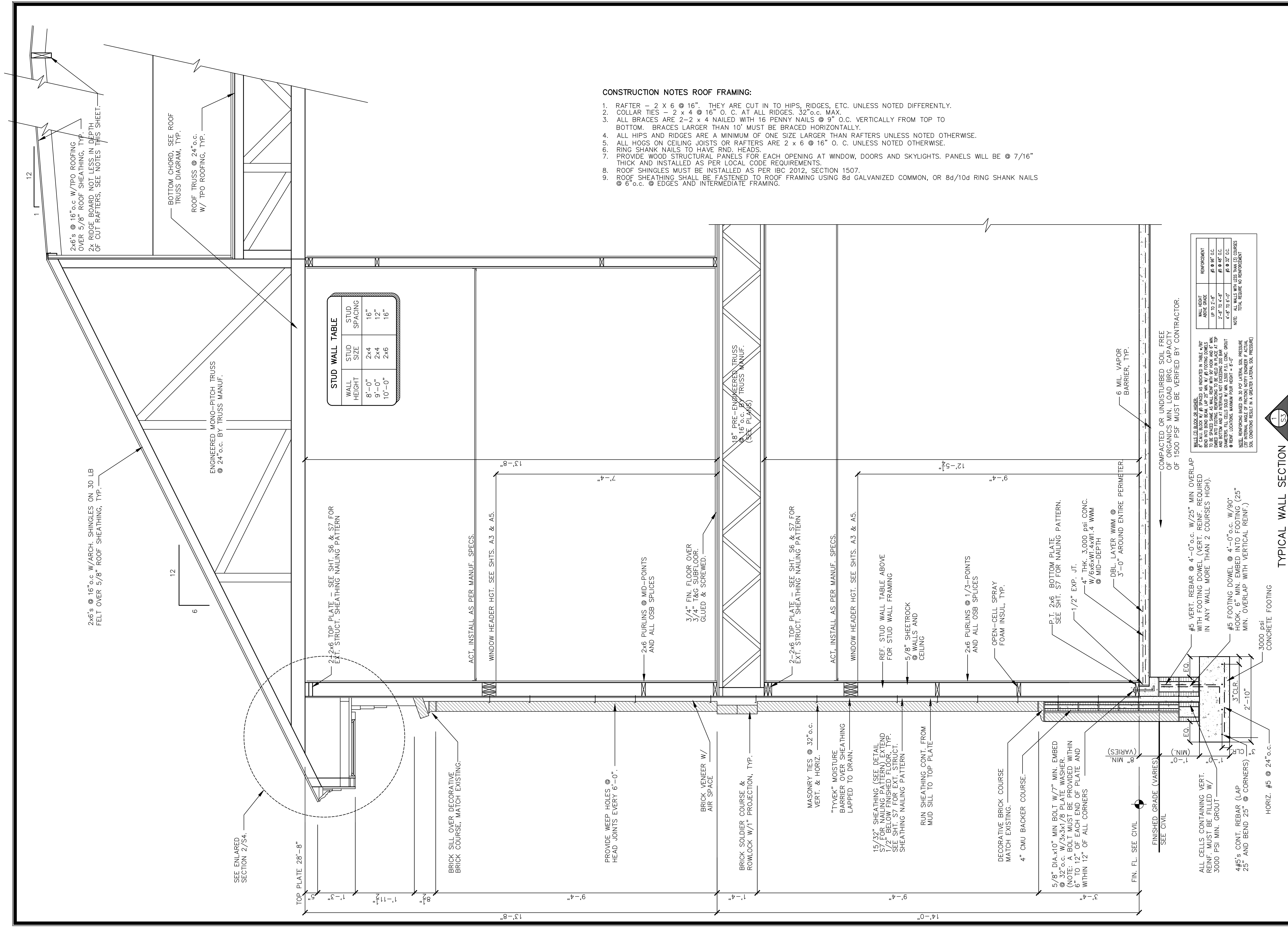


TYPICAL TUBE COLUMN TO SECOND FLOOR CONNECTION
SCALE: 3/4" = 1'-0"
NOTE: ALL STEEL TO BE RUST PROTECTED (RED STEEL), WITH ZINC RICH PRIMER.



TYPICAL INTERIOR LALLY COLUMN DETAIL
SCALE: 3/4" = 1'-0"

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N	
Foundation Sections	
DATE: OCT. 2024	SCALE: AS SHOWN
CONTR. NO. 24-28	PORT WENTWORTH, GEORGIA
 Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
SHEET S2	
16 OF 38	
COPYRIGHT © 2024 Cadman Designs	



STUD WALL TABLE		
WALL HEIGHT	STUD SIZE	STUD SPACING
8'-0"	2x4	16"
9'-0"	2x4	12"
10'-0"	2x6	16"

CONSTRUCTION NOTES ROOF FRAMING:

1. RAFTER - 2 X 6 @ 16". THEY ARE CUT IN TO HIP, RIDGES, ETC. UNLESS NOTED DIFFERENTLY.
2. COLLAR TIES - 2 X 4 @ 16" O. C. AT ALL RIDGES. 32" O.C. MAX.
3. ALL BRACES ARE 2-2 X 4 NAILED WITH 16 PENNY NAILS @ 9" O.C. VERTICALLY FROM TOP TO BOTTOM. BRACES LARGER THAN 10" MUST BE BRACED HORIZONTALLY.
4. ALL HIP AND RIDGES ARE A MINIMUM OF ONE SIZE LARGER THAN RAFTERS UNLESS NOTED OTHERWISE.
5. ALL HOGS ON CEILING JOISTS OR RAFTERS ARE 2 X 6 @ 16" O. C. UNLESS NOTED OTHERWISE.
6. RING SHANK NAILS TO HAVE RND. HEADS.
7. PROVIDE WOOD STRUCTURAL PANELS FOR EACH OPENING AT WINDOW, DOORS AND SKYLIGHTS. PANELS WILL BE @ 7/16" THICK AND INSTALLED AS PER LOCAL CODE REQUIREMENTS.
8. ROOF SHINGLES MUST BE INSTALLED AS PER IBC 2012, SECTION 1507.
9. ROOF SHEATHING SHALL BE FASTENED TO ROOF FRAMING USING 8d GALVANIZED COMMON, OR 8d/10d RING SHANK NAILS @ 6 o.c. @ EDGES AND INTERMEDIATE FRAMING.

WALL TYPE	REINFORCEMENT
UP TO 4'-4"	#5 @ 16" O.C.
4'-4" TO 6'-0"	#5 @ 12" O.C.
6'-0" TO 8'-0"	#5 @ 10" O.C.
8'-0" TO 10'-0"	#5 @ 8" O.C.

NOTE: ALL WALLS WITH LESS THAN (2) COURSES TOTAL REQUIRE NO REINFORCEMENT

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

Office Expansion for
City of Port Wentworth

7224 SR-21N
Port Wentworth, Georgia

DATE: OCT. 2024 SCALE: AS SHOWN CONTR. NO. 24-28

City of Port Wentworth

RESIDENTIAL DESIGNERS - PLANNERS

Cadman Designs LLC

P.O. Box 30443 • Savannah, GA 31410
Office / Fax: 912.949.1800

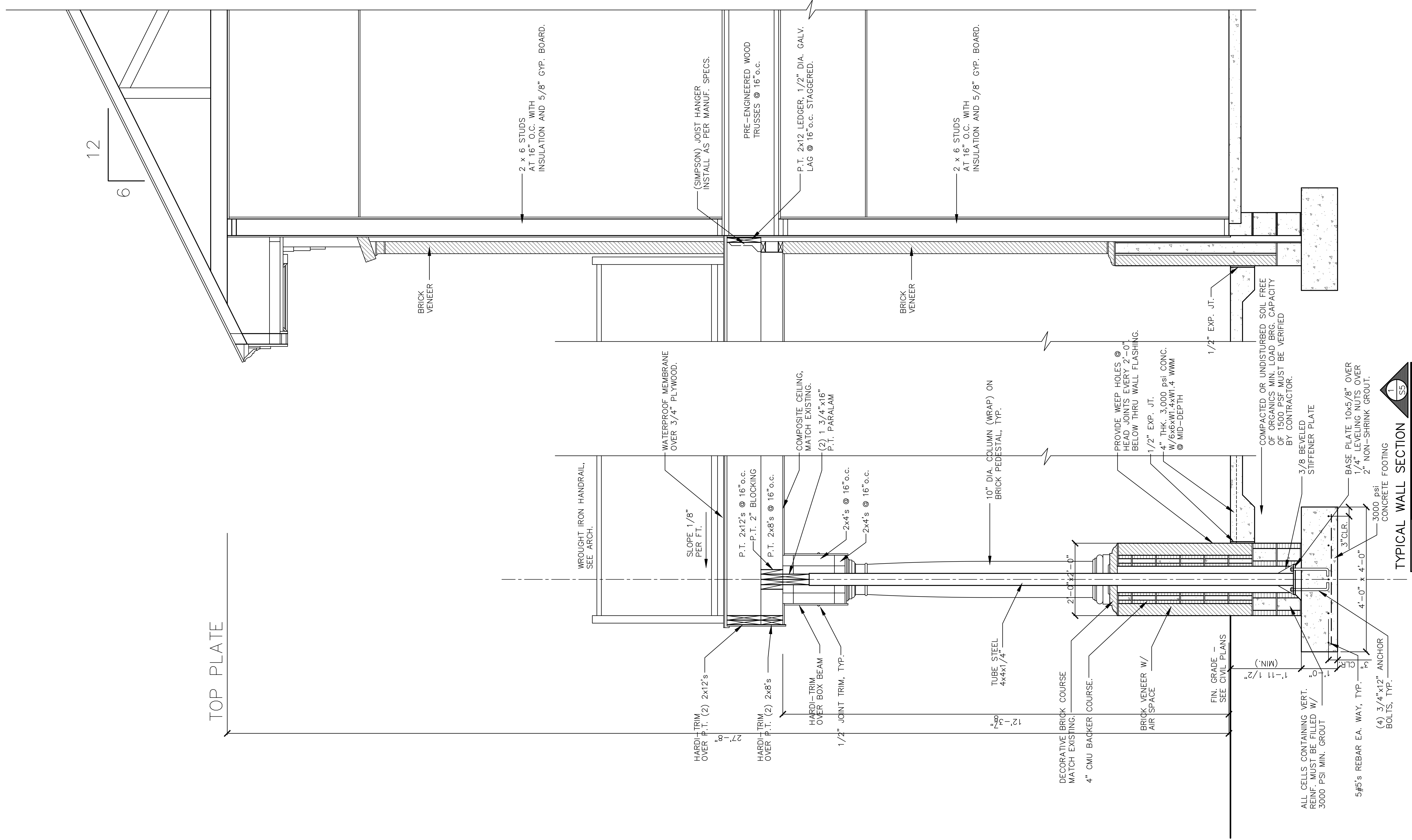
STATE OF GEORGIA

DEMETRUS P. WOODLIFTON

REGISTERED ARCHITECT

SHEET 53 OF 38

COPYRIGHT © 2024 Cadman Designs

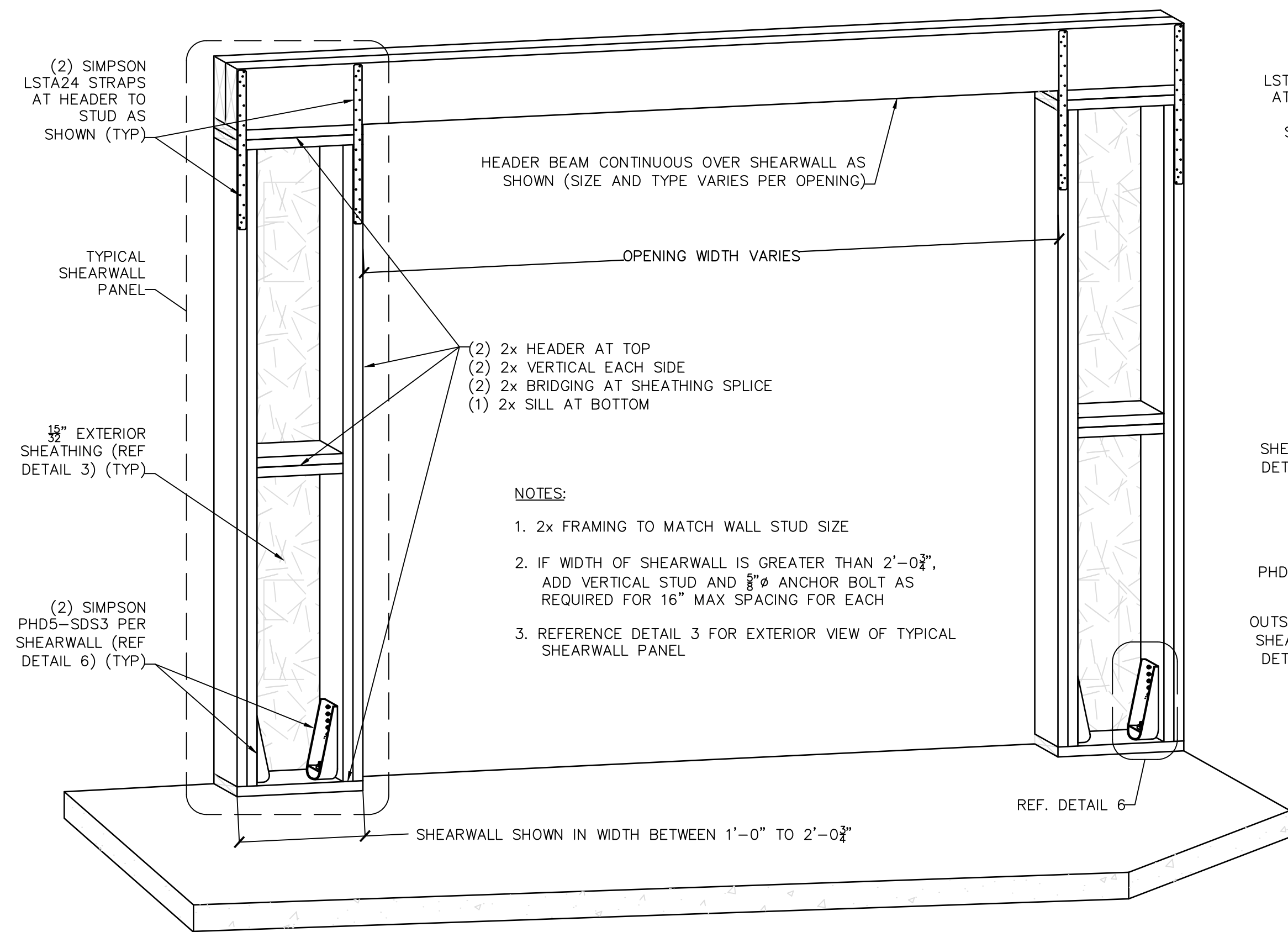


TOP PLATE

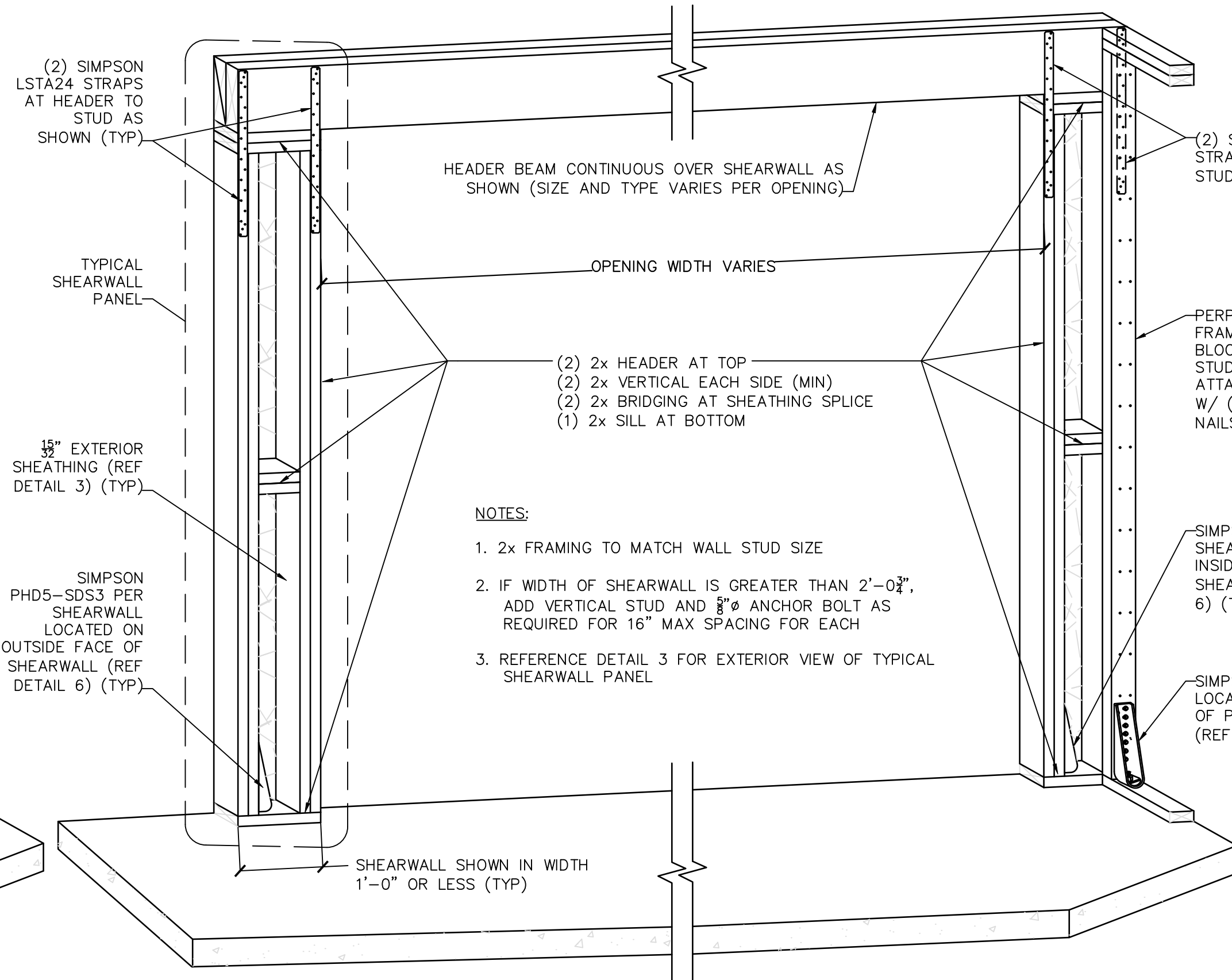
TYPICAL WALL SECTION

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

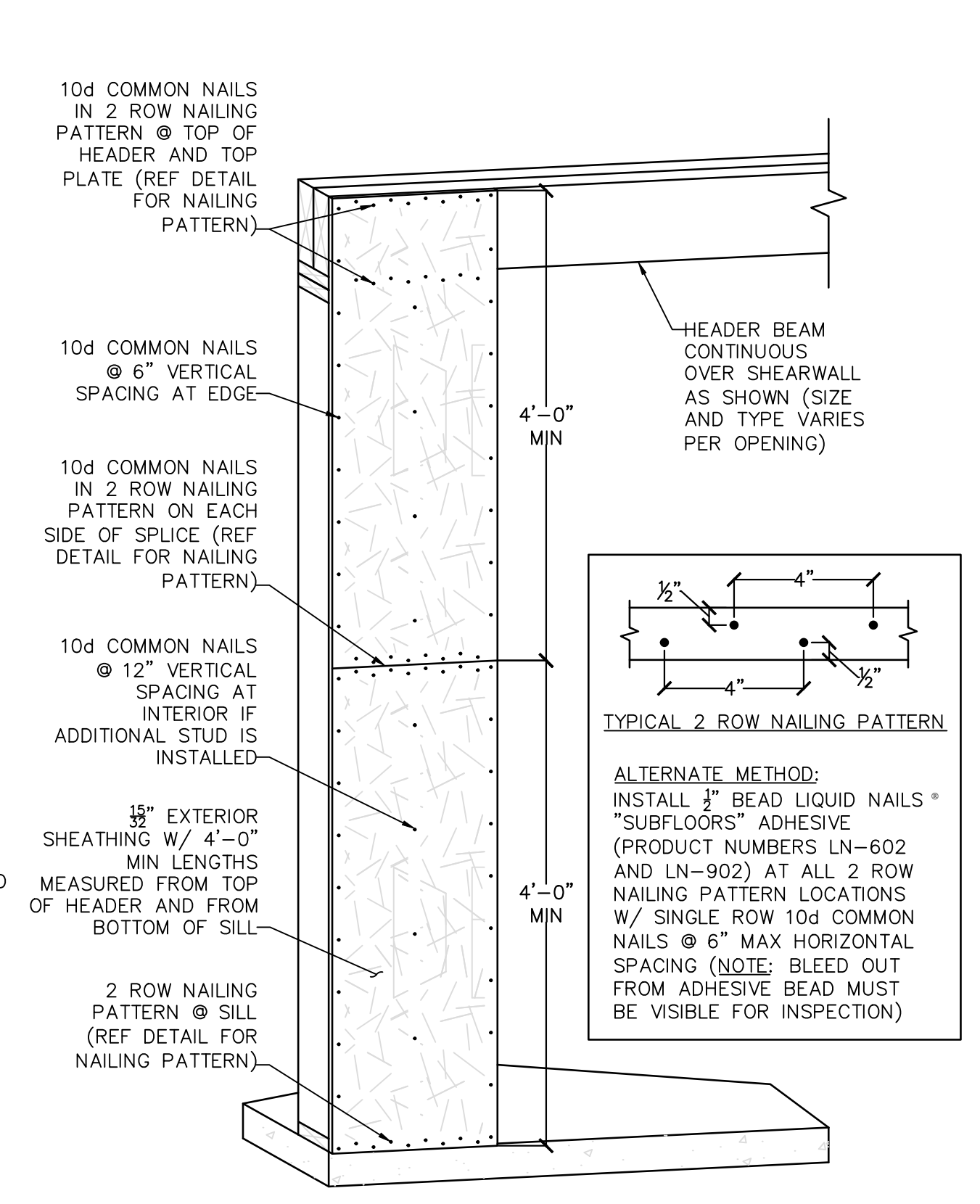
<p>Cadman Designs LLC Residential • Designers • Planners P.O. Box 30443 • Savannah, GA 31410 Office / Fax: 912.349.1800</p>	<p>Office Expansion for City of Port Wentworth 7224 SR-21N</p>	<p>DATE: OCT. 2024 SCALE: AS SHOWN CONTR. NO. 24-28</p>	<p>NO.</p>	<p>DATE</p>	<p>REVISION</p>
	<p>Typical Wall Section</p>	<p>Port Wentworth, Georgia Chatham County</p>	<p>SHEET 55 19 OF 38</p>	<p>COPYRIGHT © 2024 Cadman Designs</p>	



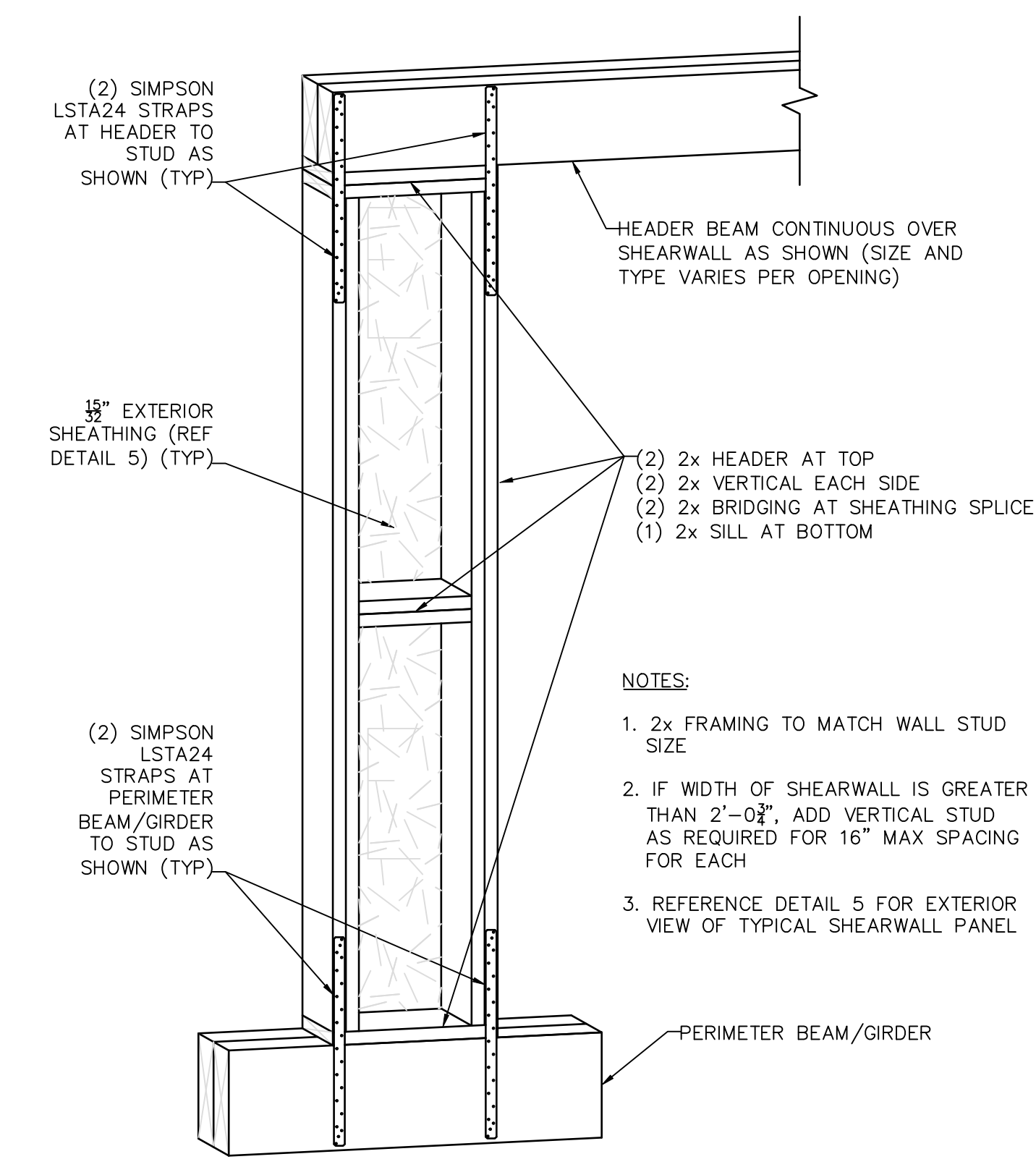
1 INTERIOR VIEW OF TYPICAL FIRST FLOOR SHEARWALL SYSTEM FOR WALLS GREATER THAN 1'-0" N.T.S.



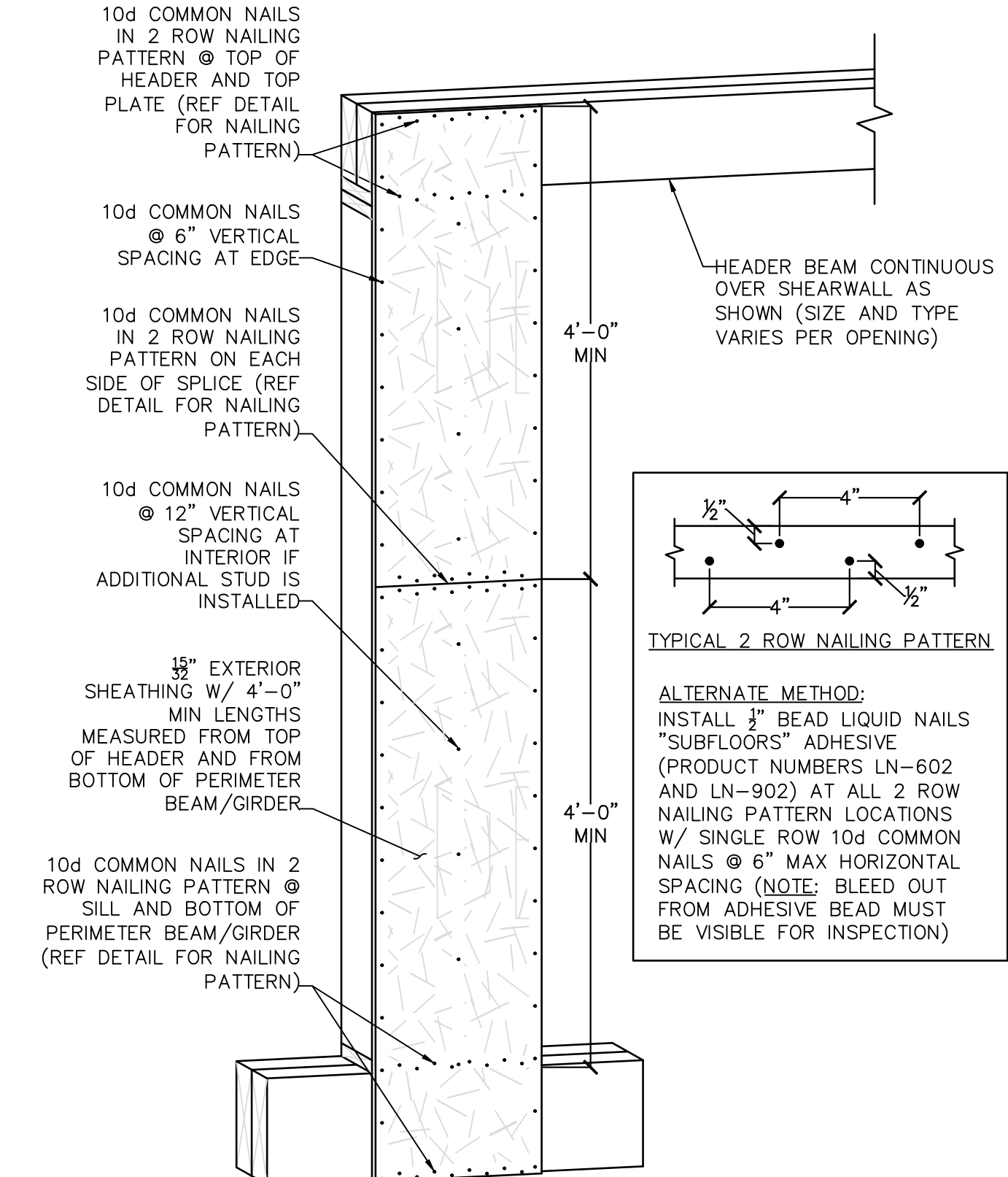
2 INTERIOR VIEW OF TYPICAL FIRST FLOOR SHEARWALL SYSTEM FOR WALLS LESS THAN 1'-0" N.T.S.



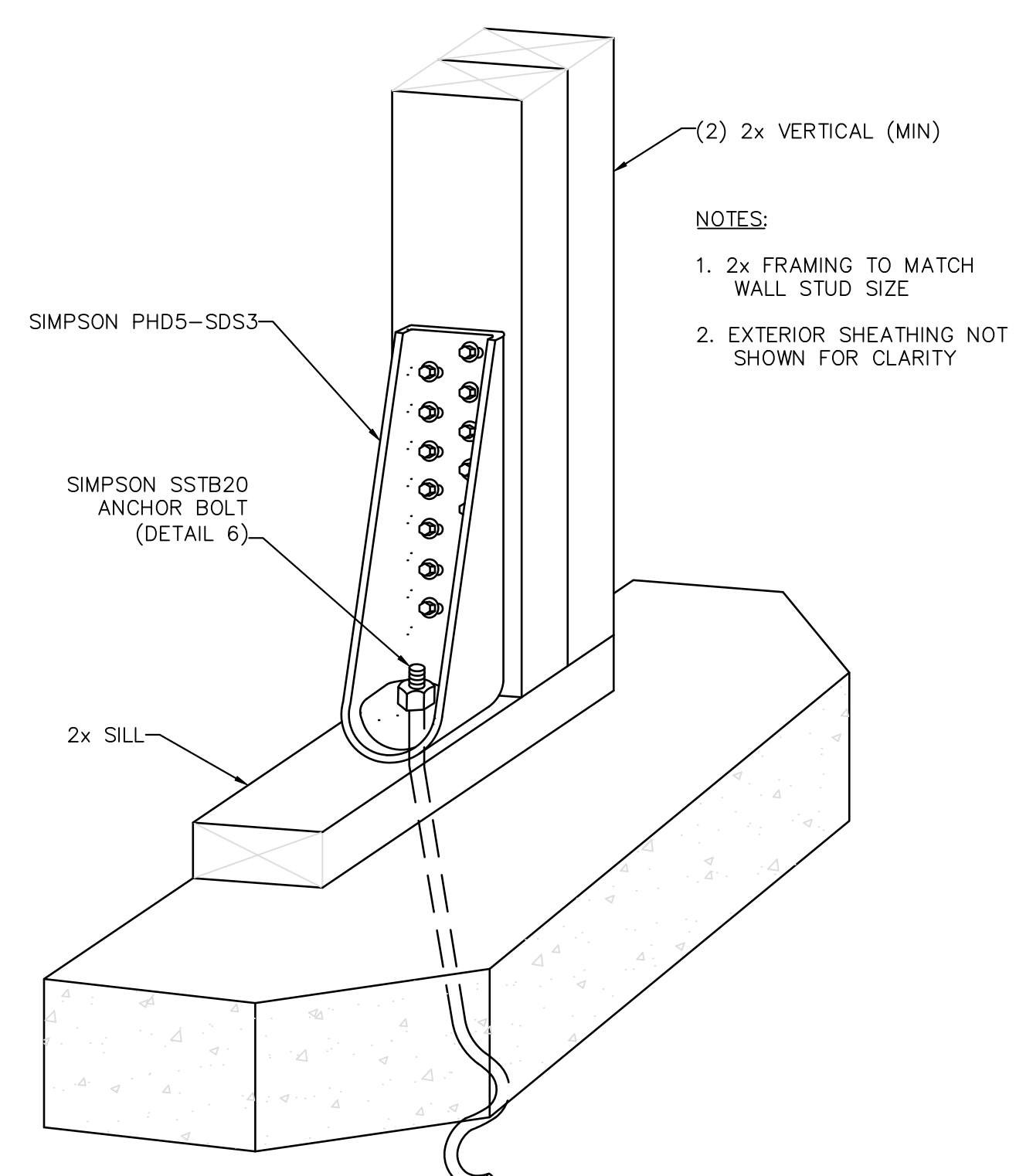
3 EXTERIOR VIEW OF TYPICAL FIRST FLOOR SHEARWALL PANEL N.T.S.



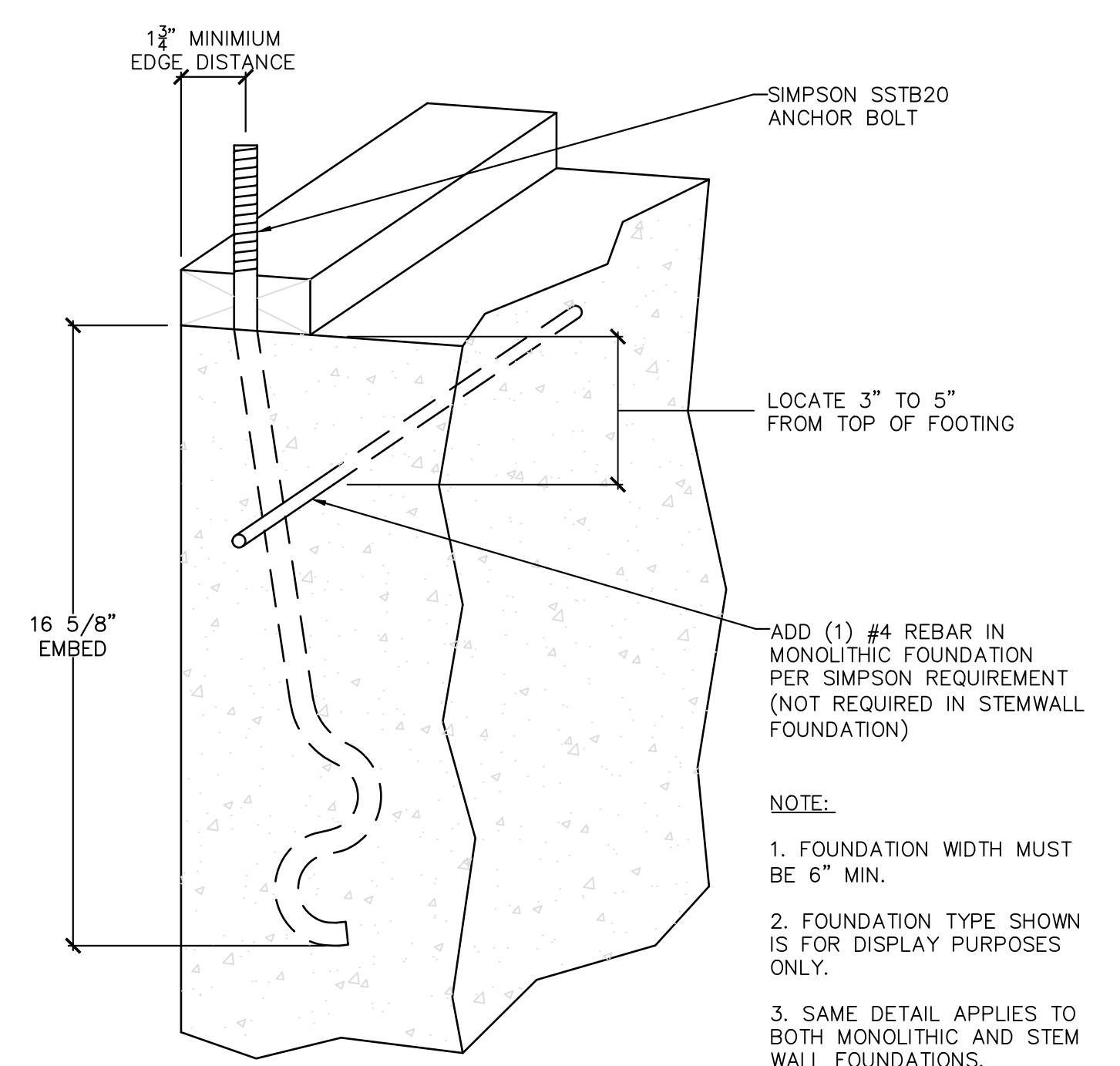
4 INTERIOR VIEW OF TYPICAL ELEVATED (SECOND FLOOR) SHEARWALL SYSTEM N.T.S.



5 EXTERIOR VIEW OF TYPICAL ELEVATED (SECOND FLOOR) SHEARWALL SYSTEM N.T.S.



6 TYPICAL SIMPSON STRONG-TIE PHD5-SDS3 HOLDOWN ANCHOR N.T.S.



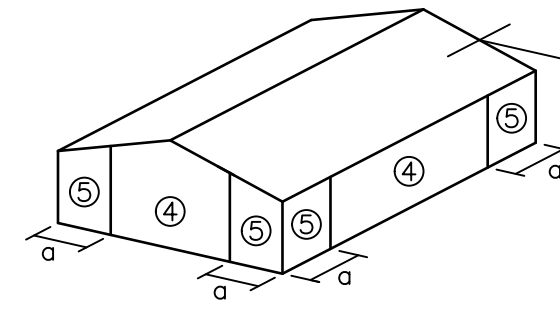
7 TYPICAL SIMPSON STRONG-TIE SSTB20 ANCHOR BOLT INSTALLATION N.T.S.

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N Chatham County	
DATE: OCT. 2024 SCALE: AS SHOWN CONTR. NO. 24-28	
Shearwall Details	
<p>Cadman Designs LLC Residential - Designers - Planners P.O. Box 90445 • Savannah, GA 31410 Office / Fax: 912.349.1800</p>	
SHEET S6 20 OF 38	
COPYRIGHT © 2024 Cadman Designs, LLC	

GENERAL STRUCTURAL NOTES

- ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING:
 - INTERNATIONAL RESIDENTIAL CODE - 2018 (IRC-2018)
 - STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH WIND REGIONS. (I.R.C.- 2018)
 - WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (IRC 2018 EDITION).
- DESIGN CRITERIA:
 - ROOF LIVE LOAD ---- 20 PSF
 - FLOOR LIVE LOAD ---- 40 PSF
 - WIND LOAD PER IRC 2018
 - BASIC WIND SPEED (3-SECOND GUST) 130 MPH
 - EXPOSURE B
- WINDOWS, GLASS DOORS, & SKYLIGHTS SHALL BE APPROVED AND INSTALLED TO COMPLY WITH BOTH NEGATIVE AND POSITIVE PRESSURES AS REQUIRED BY I.R.C.-2018. DOCUMENTATION OF COMPLIANCE SHALL BE AVAILABLE ON-SITE FOR EACH WINDOW, DOOR OR SKYLIGHT AT THE FRAMING INSPECTION.
- IF APPROVED DOORS, WINDOWS, OR SKYLIGHTS ARE NOT USED, THEN WOOD STRUCTURAL PANELS MUST BE PROVIDED FOR EACH OPENING. PANELS WILL HAVE A MINIMUM THICKNESS OF 7/16 INCHES AND A MAXIMUM SPAN OF 8 FEET. PANELS MUST BE PRECUT TO SIZE WITH PRE-DRILLED APPROVED HARDWARE PROVIDED AND NUMBERED SO THAT A HOMEOWNER WILL BE ABLE TO IDENTIFY THE PROPER LOCATION FOR EACH PANEL. (IRC-2018).

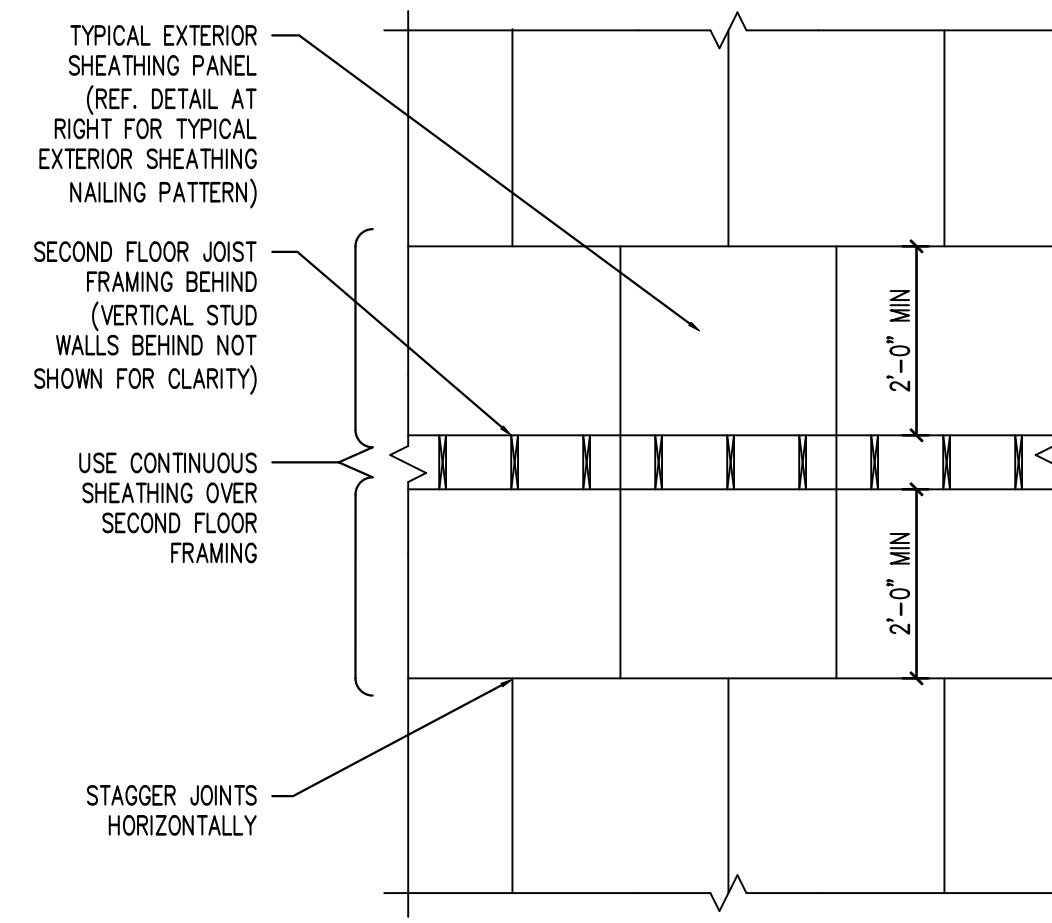
MEAN ROOF HEIGHT	* EXPOSURE B * INCLUDING INLAND PROPERTY ONLY		* EXPOSURE C * INCLUDING ISLANDS AND WATER/MARSH FRONT PROPERTY	
	ZONE (4)	ZONE (5)	ZONE (4)	ZONE (5)
15'	DP 35	DP 45	DP 40	DP 50
20'	DP 35	DP 45	DP 45	DP 55
25'	DP 35	DP 45	DP 45	DP 55
30'	DP 35	DP 45	DP 50	DP 60
35'	DP 35	DP 45	DP 50	DP 60
40'	DP 40	DP 45	DP 50	DP 65
45'	DP 40	DP 50	DP 55	DP 65
50'	DP 40	DP 50	DP 55	DP 65



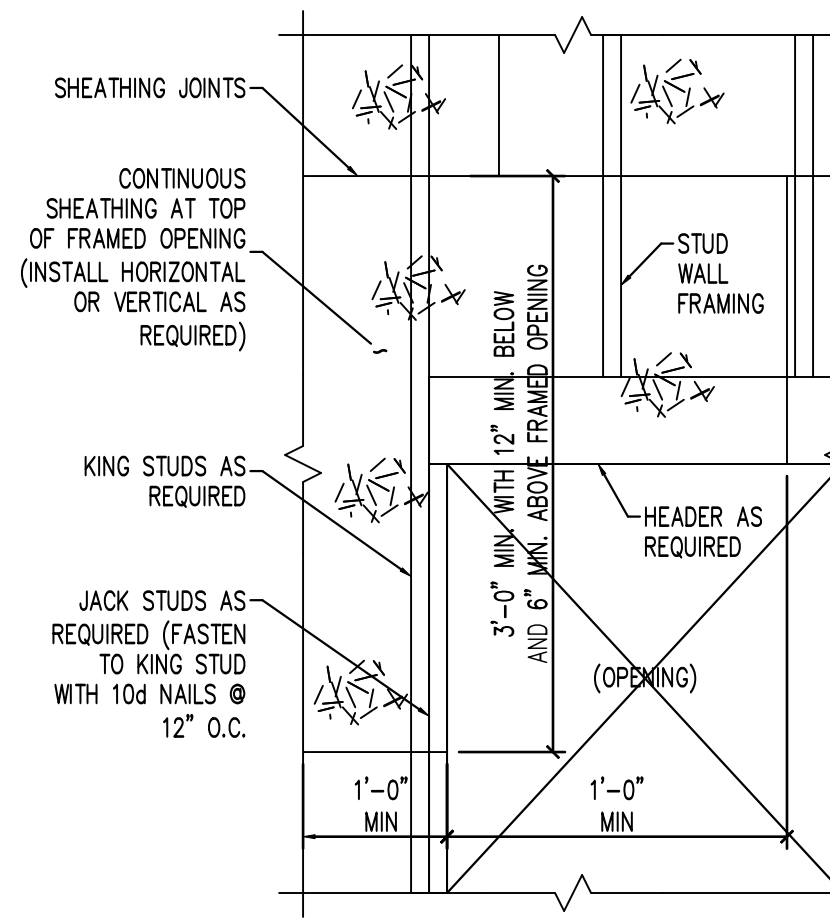
ZONE LOCATIONS

NOTES:

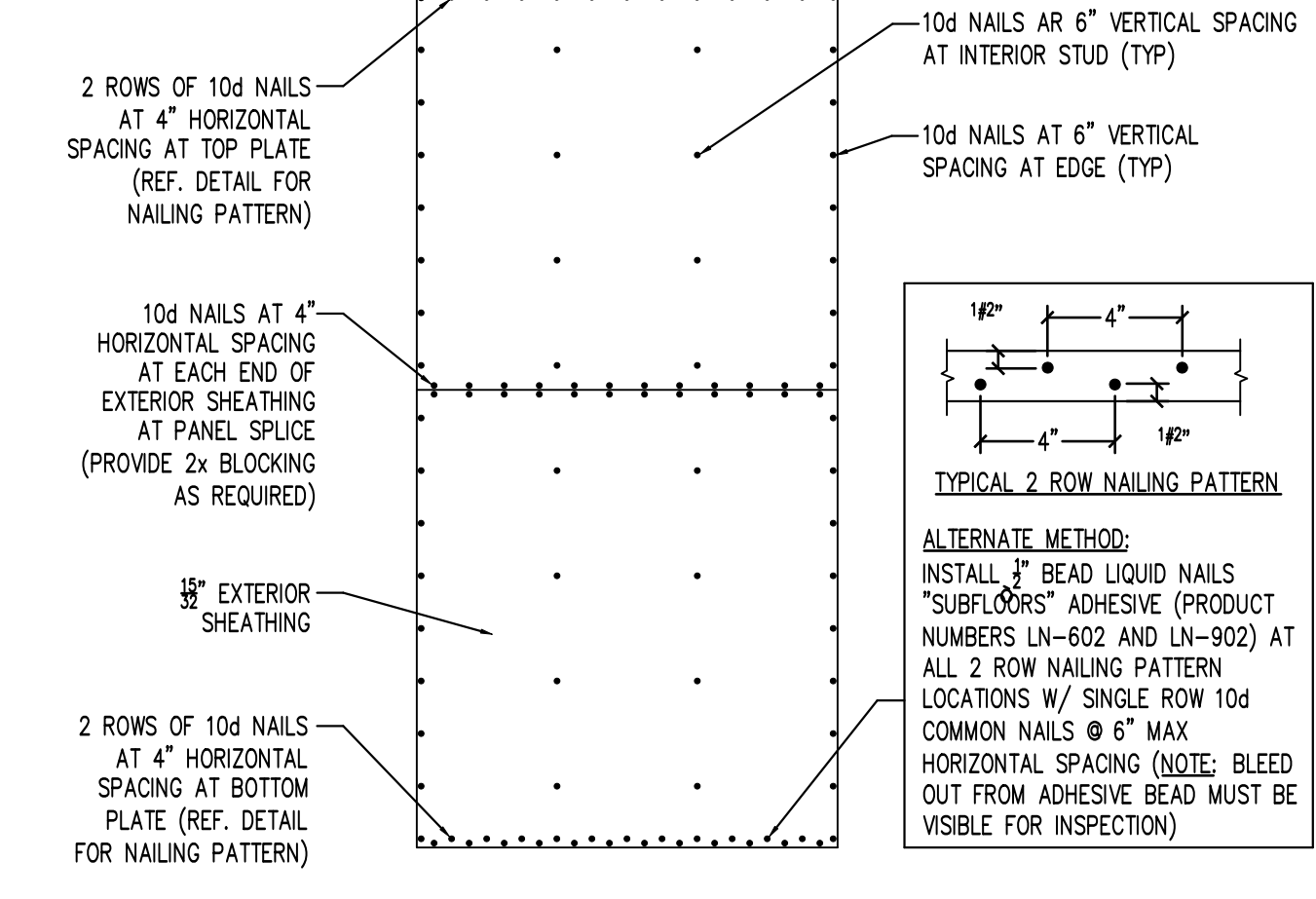
- DESIGN PRESSURE (DP) VALUES ARE LISTED IN POUNDS/SQUARE FOOT (PSF)
- h = MEAN ROOF HEIGHT AND IS MEASURED FROM GRADE TO HALFWAY UP THE ROOF
- a = LENGTH OF ZONE (5) LOCATED AT THE CORNERS OF THE BUILDING A DISTANCE OF THE FOLLOWING CRITERIA:
 - THE SMALLER OF THE FOLLOWING:
 - 10% OF THE LEAST HORIZONTAL DIMENSION
 - OR: 4h
 - BUT NOT LESS THAN THE LARGER OF EITHER OF THE FOLLOWING:
 - 4% OF THE LEAST HORIZONTAL DIMENSION
 - OR: 3 FEET



TYPICAL INSTALLATION PATTERN



TYPICAL INSTALLATION AROUND OPENINGS



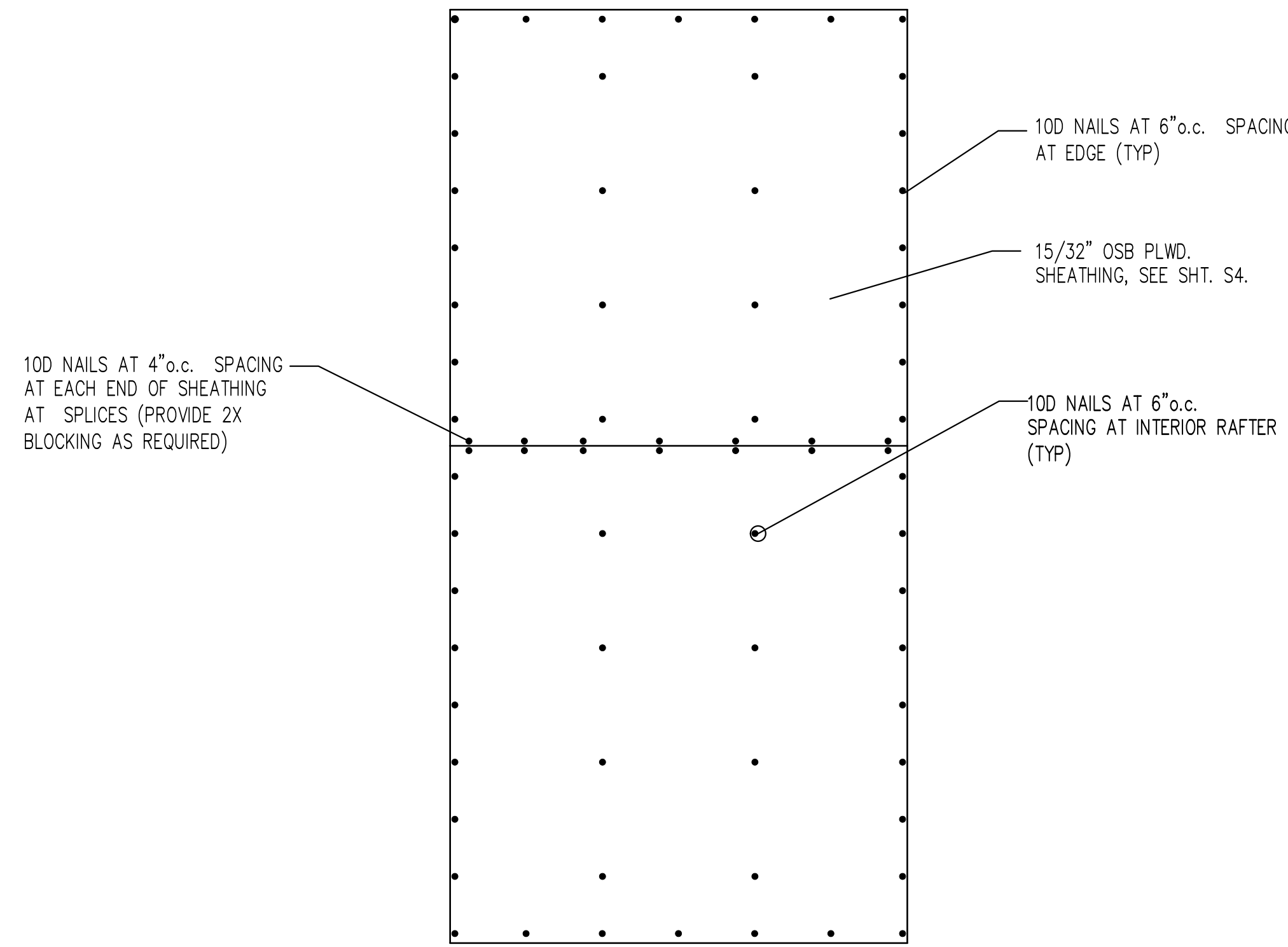
TYPICAL NAILING PATTERN

NOTES:

- NAILING PATTERN SPECIFIED IS DESIGNED TO TRANSFER UPLIFT FORCES TO FOUNDATION AND NO ADDITIONAL STRAPPING IS REQUIRED AROUND THE WINDOW OPENINGS.
- SHEATHING MAY BE INSTALLED VERTICAL OR HORIZONTAL EXCEPT AT FLOOR LINES IN MULTI-STORY BUILDINGS WHERE FULL HEIGHT SHEATHING MUST BE INSTALLED VERTICAL WITH 24" MIN ABOVE AND BELOW THE FLOOR LINE.
- MINIMUM SHEATHING SECTION AT ROOF AND FOUNDATION TO BE 48". MINIMUM SHEATHING SECTION AT ALL OTHER LOCATIONS TO BE 24".

2 WINDOW AND DOOR DESIGN PRESSURE (DP) RATINGS

N.T.S.



TYPICAL ROOF SHEATHING NAILING PATTERN

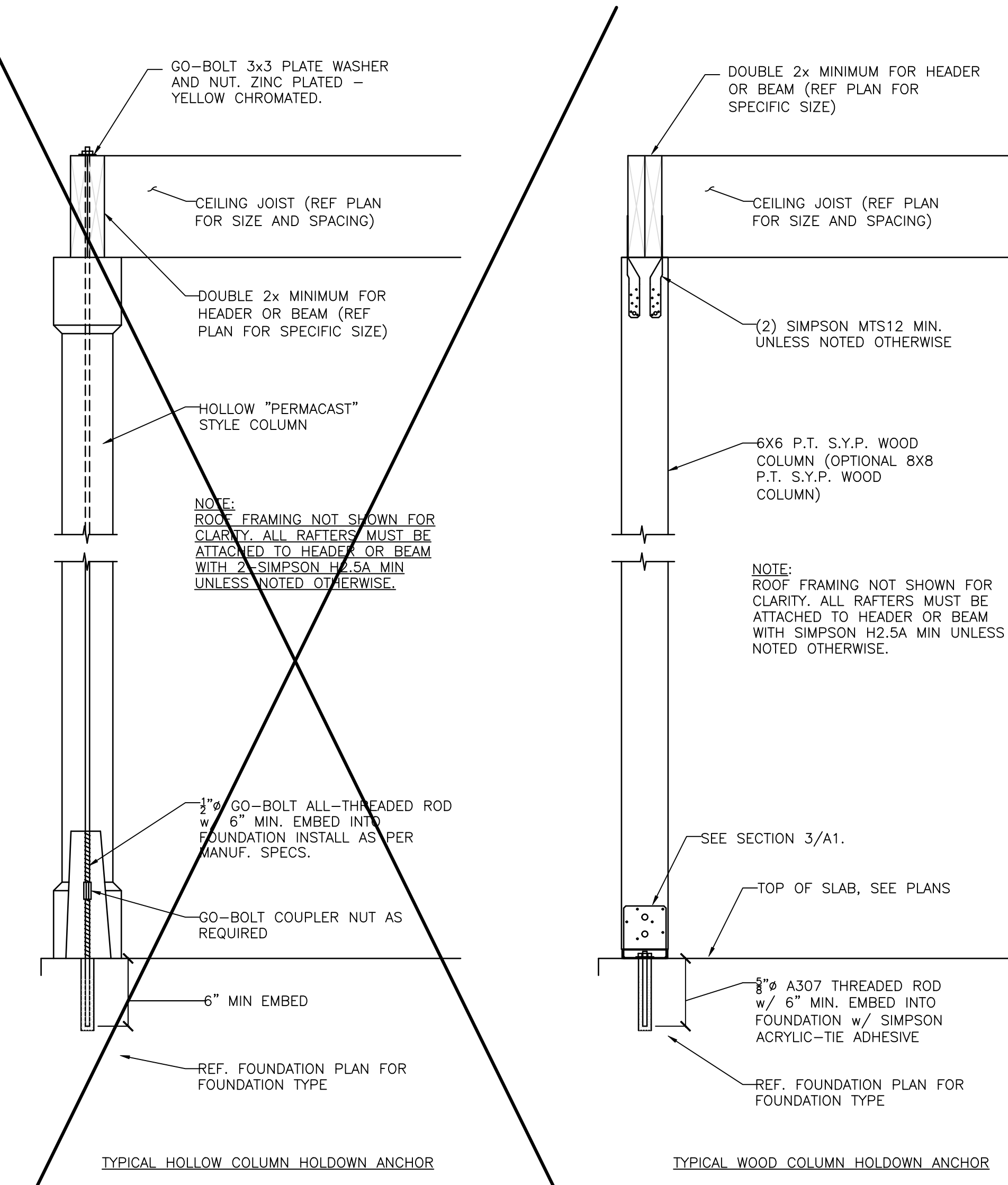
NOTE: NAILING PATTERN SPECIFIED IS DESIGNED TO TRANSFER UPLIFT FORCES TO FOUNDATION

3 TYPICAL ROOF NAILING PATTERN

N.T.S.

1 TYPICAL EXTERIOR SHEATHING NAILING PATTERN

N.T.S.



TYPICAL HOLLOW COLUMN HOLDDOWN ANCHOR

TYPICAL WOOD COLUMN HOLDDOWN ANCHOR

4 TYPICAL COLUMN HOLDDOWN ANCHOR OPTIONS

N.T.S.

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N PORT WENTWORTH, GEORGIA	
DATE: Oct. 2024 SCALE: AS SHOWN CONTR. NO. 24-28	
Typical Details	
Cadman Designs LLC Residential Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
STATE OF GEORGIA DEMETRIUS FRANKLIN HUGGELSTON REGISTERED ARCHITECT	
SHEET S7 OF 38	
COPYRIGHT © 2024 Cadman Designs	

MINIMUM WALL AND HEADER STUD REQUIREMENTS

	MAXIMUM HEADER SPAN (FT.)			
	3 ft	6 ft	9 ft	12 ft
	NUMBER OF HEADER STUDS SUPPORTING EACH END OF THE HEADER			
	1	1	2	2
UNSUPPORTED WALL HEIGHT	NUMBER OF FULL LENGTH STUDS AT EACH END OF THE HEADER			
10 FEET OR LESS	16"o/c	2	2	3
GREATER THEN 10 FEET	16"o/c	2	2	3

DOOR AND WINDOW HEADER SCHEDULE: (WALLS 2x6's @ 16" O.C.)

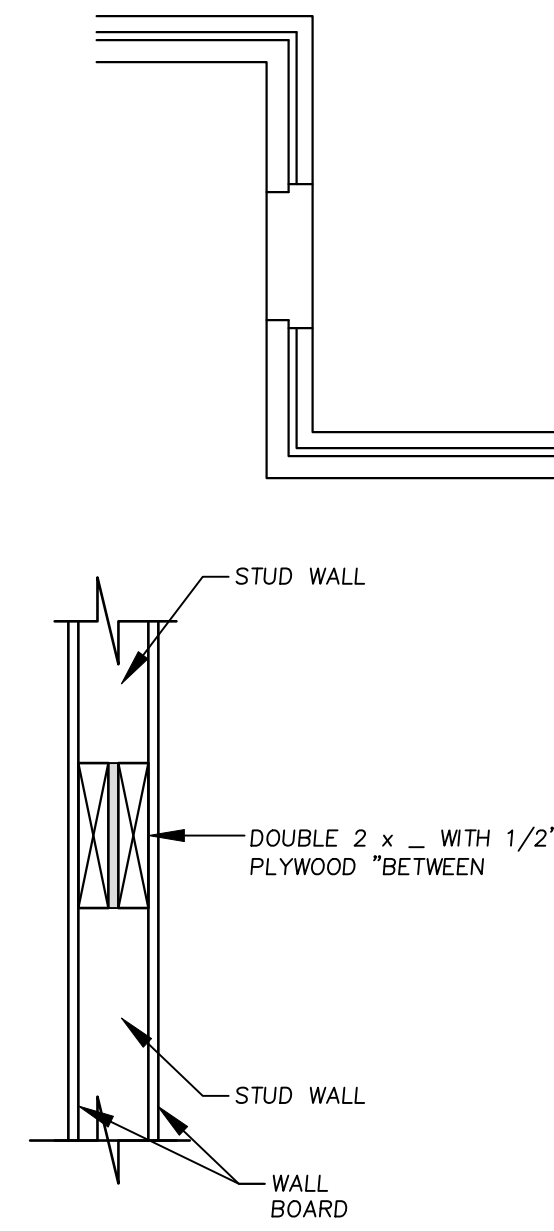
- (3) 2x8's W/ (1/2) PLYWOOD FILLERS FOR UP TO 4'-0" OPENINGS
- (3) 2x10's W/ (1/2) PLYWOOD FILLERS FOR UP TO 8'-0" OPENINGS
- (3) 2x12's W/ (1/2) PLYWOOD FILLERS FOR UP TO 10'-0" OPENINGS

DOOR AND WINDOW HEADER SCHEDULE: (WALLS 2x4's @ 16" O.C.)

- (2) 2x8's W/ (1/2) PLYWOOD FILLERS FOR UP TO 4'-0" OPENINGS
- (2) 2x10's W/ (1/2) PLYWOOD FILLERS FOR UP TO 8'-0" OPENINGS
- (2) 2x12's W/ (1/2) PLYWOOD FILLERS FOR UP TO 10'-0" OPENINGS

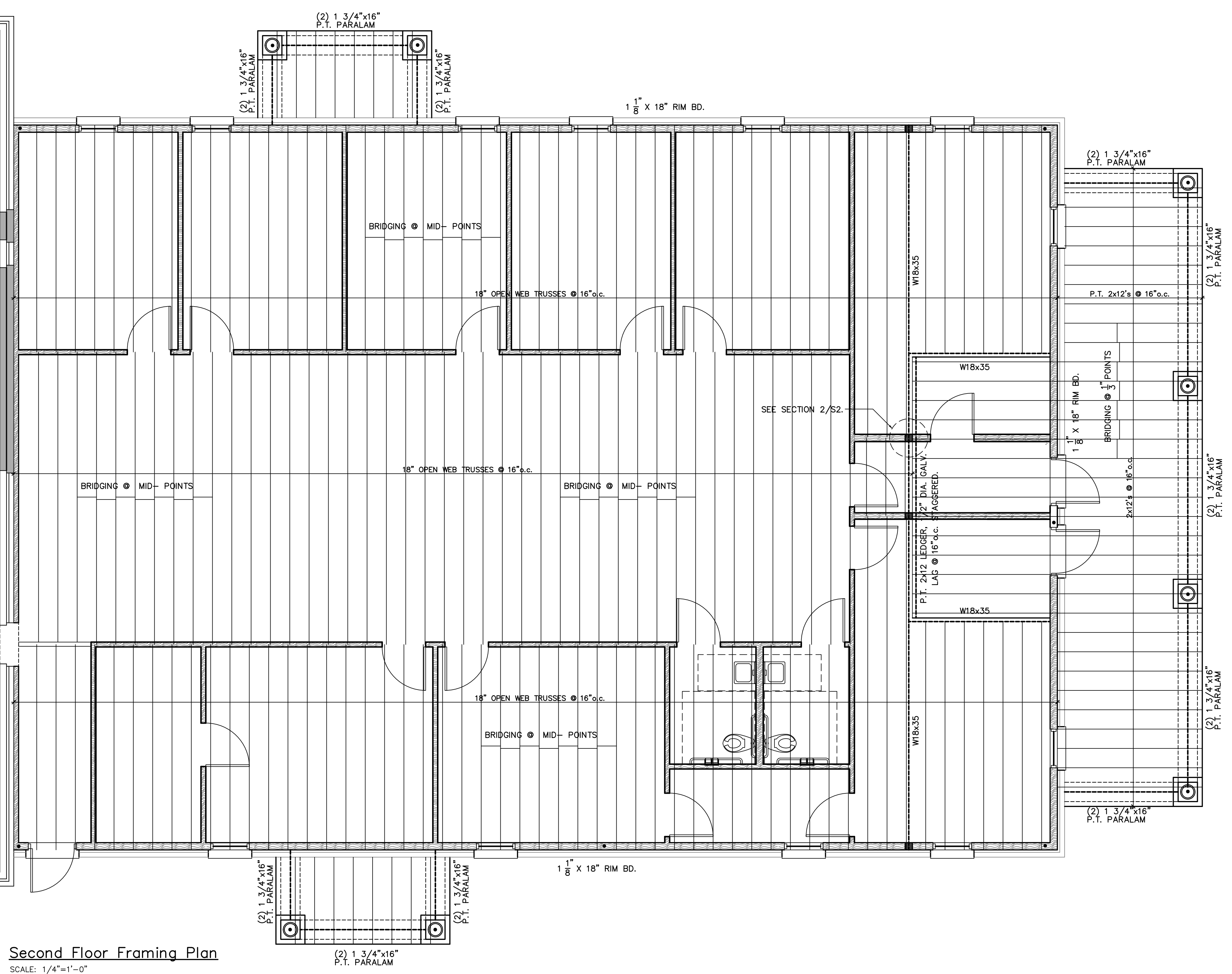
HEADER SECTION

NOT TO SCALE



HEADER SECTION

NOT TO SCALE



Second Floor Framing Plan
SCALE: 1/4"=1'-0"

REVISION	
DATE	
NO.	
Office Expansion for City of Port Wentworth 7224 SR-21N	Chatham County
Second Floor Framing Plan	Port Wentworth, Georgia
DATE: OCT. 2024	SCALE: AS SHOWN CONTR. NO. 24-28
Cadman Designs LLC Residential - Designers - Planners P.O. Box 30443 - Savannah, GA 31410 Office / Fax: 912.949.1800	
SHEET F1	22 OF 38
COPYRIGHT © 2024 Cadman Designs	

GENERAL NOTES:

- ENTIRE INSTALLATION, INCLUDING ALL EQUIPMENT AND MATERIALS, SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODES WITH AMENDMENTS, ALONG WITH ALL OTHER CODES AND ORDINANCES HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED FOR INSTALLATION OF EQUIPMENT AS SPECIFIED BY THE DRAWING PACKAGE, U.N.O.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DESIGN AND FABRICATION. NOTIFY OWNER'S REPRESENTATIVE IF CONFLICT EXISTS.
- CONTRACTOR SHALL FIELD VERIFY ALL SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EMBEDDED ITEMS WITH THE MECHANICAL AND ELECTRICAL EQUIPMENT DETAIL AND SHOP DRAWINGS.
- DIMENSIONS SHOWN SHALL BE ADJUSTED IN THE FIELD TO SUIT THE EXISTING STRUCTURES AND INSTALLED EQUIPMENT LOCATIONS.
- THE CONTRACTOR SHALL VISIT THE JOBSITE TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK AND TO COORDINATE THE WORK WITH OTHER CONTRACTORS ON THE PROJECT.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL OF THE OWNER TO SUIT THE CONTRACTOR'S OPERATING CONDITIONS.
- CONTRACTOR SHALL COORDINATE WITH THE WORK OF OTHER TRADES.
- THE CONTRACTOR SHALL MAINTAIN A RECORD DRAWING SET MARKED UP TO CLEARLY SHOW AS-BUILT CONDITIONS. THIS SET SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE AT THE END OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING PROCUREMENT OF ANY AND ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- METHODS OF CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND ORDINANCES.
- CONTRACTOR SHALL PROVIDE ONSITE SANITATION (PORT-O-JOHN'S) AND ALL RENTAL EQUIPMENT TO PERFORM THIS SCOPE OF WORK. CONTRACTOR SHALL NOT USE OWNER'S EQUIPMENT, POWER, OR FACILITIES WITHOUT PRIOR APPROVAL OF OWNER.
- CONTRACTOR SHALL AFFIX MAINTENANCE LABEL TO ALL MECHANICAL EQUIPMENT AND PROVIDE MAINTENANCE MANUALS FOR OWNER'S USE.
- ALL EXISTING EQUIPMENT AND MATERIALS BEING REMOVED SHALL BE DISPOSED OF AS DIRECTED BY OWNER'S REPRESENTATIVE. ALL DEBRIS GENERATED FROM THE CONSTRUCTION SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS.
- EXISTING MATERIALS OF CONSTRUCTION DISTURBED, BECAUSE OF WORK PERFORMED UNDER THIS CONTRACT, ARE TO BE REPAIRED AND RESTORED IN CONDITION EQUAL TO ORIGINAL.

PLUMBING NOTES

- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC..
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- ALL PIPING SHALL BE CONCEALED INSIDE WALLS, BELOW FLOORS OR ABOVE CEILINGS UNLESS INDICATED OTHERWISE. REMOVE ALL EXISTING WATER PIPING NOT IN USE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL FIXTURES MUST BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
- DO NOT RUN PLUMBING PIPING THROUGH ELECTRICAL/COMPUTER ROOMS OR DIRECTLY ABOVE ELECTRICAL PANELS.
- INSTALL WATER HAMMER ARRESTORS (PDI'S) ON DOMESTIC COLD & HOT WATER LINES AS INDICATED ON THE DRAWINGS AND / OR IN ACCORDANCE WITH THE STANDARD PLUMBING CODE. ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
- ALL FIXTURES SHALL BE FURNISHED WITH QUARTER-TURN STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
- MINIMUM FIXTURE CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE.
- ALL EQUIPMENT, PIPING, APPURTENANCES SHALL BE PROTECTED FROM DEBRIS AND DAMAGE. SENSITIVE EQUIPMENT SHALL NOT BE DELIVERED TO THE JOB SITE UNTIL SUCH TIME AS IT IS TO BE INSTALLED. PIPING ENDS SHALL BE CLOSED BY TEMPORARY MEANS WHEN PORTIONS OF THE SYSTEM ARE NOT COMPLETE.
- LOCATE ALL VALVES WHERE THEY ARE ACCESSIBLE FOR SERVICE AND USE. WHERE ACCESS PANELS ARE REQUIRED COORDINATE SELECTION AND LOCATION WITH ARCHITECT.
- PROVIDE TRAP GUARDS FOR ANY FLOOR DRAIN, FLOOR SINK, OR HUB DRAIN NOT SUBJECT TO REGULAR FLOW.
- ALL PIPES DROPPING AT COLUMNS SHALL BE INSTALLED WITHIN THE ENCLOSURE DETAILED ON THE ARCHITECTURAL DRAWINGS SUCH THAT THE DIMENSIONS OF THE ENCLOSURE ARE NOT ALTERED.
- ALL PENETRATIONS AT FLOORS AND RATED PARTIONS SHALL HAVE A UL CLASSIFIED FIRE STOP SYSTEM TESTED TO ASTM E814 AND UL 1479 BY UNDERWRITERS' LABORATORIES. FIRE STOP SYSTEMS SHALL BE PROSET SYSTEMS, PENSL FIRESTOP SYSTEMS OR 3M COMPANY.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
- PROVIDE APPROVED FLANGES FOR CONNECTIONS BETWEEN DRAINAGE PIPING AND FLOOR OUTLET PLUMBING FIXTURES.
- DEFECTIVE WORK IF INSPECTION OR TESTS SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TESTS SHALL BE REPEATED. ALL REPAIRS TO PIPING SHALL BE MADE WITH NEW MATERIAL. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.
- ALL CONCEALED HOT AND COLD WATER PIPING ABOVE AND BELOW GRADE SHALL BE POLYETHYLENE PIPE, POTABLE PEX-B TYPE, WITH PUSH-TO-CONNECT FITTINGS. JOINTS SHALL NOT BE PERMITTED UNDERNEATH SLAB FLOORS. PIPE SHALL BE CHLORINE RESISTANT AND HAVE 6-MONTH (MIN) UV RESISTANCE RATING.
- DCW PIPING EXPOSED ABOVE COUNTERTOPS AND BELOW/WITHIN COUNTERS FOR CONNECTIONS TO TENANT APPLIANCES (COFFEE MAKERS, ICE MAKERS, DISHWASHERS, ETC.) SHALL BE BRADED REINFORCED PLASTIC FLEXIBLE PIPING, 1/2" OR 3/8" TO MATCH APPLIANCE CONNECTION SIZE, CONNECTED WITH HOSE CLAMPS.

- WATER PIPING BELOW GRADE THROUGH CONCRETE SHALL BE PROTECTED WITH PLASTIC SLEEVES.
- THE SLOPE OF SANITARY PIPING SHALL BE 1/4" PER FOOT FOR PIPE SIZES 2 1/2" AND SMALLER AND 1/8" FOR 3" AND ABOVE.
- THE POTABLE WATER SYSTEM, COLD AND HOT WATER LINES, SHALL BE DISINFECTED AS PER FEDERAL SPECIFICATION BB-C-120. THEN WATER SAMPLES SHALL BE SENT TO THE LOCAL HEALTH DEPARTMENT FOR TESTING. APPROVAL FROM THE HEALTH DEPARTMENT SHALL BE OBTAINED BEFORE THE SYSTEM IS PUT INTO SERVICE OR USED FOR HUMAN CONSUMPTION.
- ALL HOT WATER, COLD WATER, AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED (1/2" WALL THICKNESS) WITH SELF SEAL ARMAFLEX 2000 OR EQUIVALENT. INSULATION SHALL BE WHITE IN COLOR AND SHALL FIT TIGHTLY AROUND THE PIPE.
- ALL HOT AND COLD WATER SHALL BE INSULATED IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL ENERGY CODE.
- SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE DWV SCH40 PVC WITH SOLVENT JOINTS IF NOT INSTALLED WITHIN A MECHANICAL PLENUM. FOR SANITARY WASTE AND VENT PIPING INSTALLED WITH A MECHANICAL PLENUM NO HUB CAST IRON SHALL BE USED. SANITARY WASTE AND VENT PIPING BELOW GRADE SHALL BE DWV SCH40 PVC WITH SOLVENT JOINTS.
- DRAIN PANS SHALL BE INSTALLED UNDERNEATH TANK TYPE WATER HEATERS. NOT REQUIRED FOR TANKLESS WATER HEATERS.
- ALL PIPING ABOVE GRADE SHALL NOT REST ON THE CEILING TILES OR CEILING STRUCTURE, BUT SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH ELECTRICAL DRAWINGS.
- ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR AFTER START-UP.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTIONS WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- SLEEVES, PLATE, & ESCUTCHEONS
 - AT EACH PENETRATION, INSTALL CHROME PLATED ESCUTCHEONS FOR ALL PIPING PENETRATING WALLS AND CEILINGS. WHEN PENETRATING EXTERIOR WALLS AND ROOFS, PIPING SHALL BE PROTECTED, SEALED WEATHER TIGHT, AND FLASHED IN AN APPROVED MANNER AS REQUIRED BY THE LOCAL CODE AUTHORITY. INSTALL AN APPROVED FIRE STOP IF ANY PIPING PENETRATES A RATED ASSEMBLY.
 - PROVIDE PIPE PENETRATIONS THROUGH WALLS, PARTITIONS, BEAMS, ROOFS AND SLABS WITH SLEEVES OF SUFFICIENT SIZE TO ADEQUATELY ACCOMMODATE PIPE, INCLUDING INSULATION AND THERMAL MOVEMENT AS APPLICABLE.
 - SIZE SLEEVES TO BE 2" LARGER THAN OUTSIDE DIAMETER OF BARE PIPE, OR 2" LARGER THAN OUTSIDE DIAMETER OF PIPE INSULATION, UNLESS OTHERWISE INDICATED ON DRAWINGS.
 - INSTALL WALL SLEEVES FLUSH ON BOTH SIDES OF WALL, AND FLOOR SLEEVES FLUSH ON CEILING SIDE AND EXTEND 1" ABOVE FLOOR, EXCEPT WHERE OTHERWISE INDICATED ON DRAWINGS OR AS NECESSARY TO SUIT LOCATION AND PIPING FUNCTION.
 - SET SLEEVES IN PLACE BEFORE POURING CONCRETE OR SECURELY FASTEN AND GROUT SLEEVES WITH CEMENT.
 - SET WALL SLEEVES AS WALL IS CONSTRUCTED.
 - PACK ANNULAR SPACE BETWEEN PIPE AND SLEEVES THROUGH MASTIC OR ASPHALT OR SEAL WITH LINK-SEAL UNITS.

PLUMBING EQUIPMENT

- PRODUCTS BELOW ARE JAY R SMITH UNLESS NOTED OTHERWISE. EQUIVALENT PRODUCTS ARE JOSAM, ZURN, WADE.
- CLEAN OUTS
 - FLOOR CLEAN OUT (FCO)
 - FOR TILE FLOORS: JAY R SMITH ROUND CAST IRON TILE FLOOR CLEANOUT WITH TWIS-TO-FLOOR THREADED ADJUSTABLE TOP, FIGURE 4151, NICKEL BRONZE TOP WITH TILE RECESS, GASKET SEAL, SPEEDI-SET OUTLET.
 - FOR CONCRETE FLOORS: JAY R SMITH FINISHED FLOOR ROUND EXTRA HEAVY DUTY CAST IRON CLEANOUT WITH TWIS-TO-FLOOR THREADED ADJUSTABLE TOP, NICKEL BRONZE TOP, FIGURE 4105, SPEEDI-SET OUTLET, GASKET SEAL
 - FOR CARPET FLOORS: JAY R SMITH ROUND CAST IRON FLOOR CLEANOUT WITH TWIS-TO-FLOOR THREADED ADJUSTABLE TOP AND CARPET MARKER, NICKEL BRONZE TOP, FIGURE 4031-Y, SPEEDI-SET OUTLET, GASKET SEAL.
 - CLEAN OUT (CO) FOR UNFINISHED AREAS
 - JAY R SMITH CLEANOUT PLUG WITH COUNTERSUNK CAST BRONZE TAPER THREAD PLUG, FIGURE 4470, INCLUDE 1/2" THICK STEEL BAR STOCK.
 - WALL CLEAN OUT (WCO)
 - JAY R SMITH CAST IRON ROUND WALL CLEANOUT WITH CAST BRONZE TAPER THREAD PLUG, CHROME PLATED BRONZE ROUND FRAME AND SECURED COVER, FIGURE 4436.
 - YARD CLEAN OUT (YCO) FOR UNFINISHED AREAS
 - JAY R SMITH ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER WITH LIFTING DEVICE, SPEEDI-SET, FIGURE 4261-U, GASKET SEAL.
 - FLOOR DRAINS (FD)
 - FOR RESTROOMS/KITCHENS
 - JAY R SMITH FIGURE 2005, ROUND CAST IRON FLOOR DRAIN WITH ADJUSTABLE STRAINER HEAD, 6" NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION, SPEEDI-SET OUTLET.
 - FOR GENERAL AREAS
 - JAY R SMITH CAST IRON FLOOR DRAIN WITH CAST IRON GRATE AND SEDIMENT BUCKET, SAFE-SET BUCKET WITH FLANGE, FIGURE 2120, 8 1/2" ROUND TOP, SPEEDI-SET OUTLET, TRAP PRIMER CONNECTION.
 - TRAP PRIMERS (TP)
 - JAY R SMITH QUAD CLOSE TRAP SEAL. MUST BE LOCATED IN ACCESSIBLE LOCATION.
 - WALL HYDRANT
 - EXTERIOR (NFWH) - JAY R SMITH QUARTER-TURN WALL HYDRANT AND BOX, FIGURE 5509QT
 - INTERIOR - JAY R SMITH QUARTER-TURN NON-FREEZE WALL HYDRANT W/ VACUUM BREAKER, FIGURE 5609QT

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	QTY	CONNECTION SIZES (IN)				REMARKS
					COLD WATER	HOT WATER	VENT	SANITARY	
P1	WATER HEATER (ELECTRIC)	RHEEM	ELDS30-TB	1	3/4"	3/4"	-	3/4"	LIGHT-DUTY COMMERCIAL ELECTRIC, 30-GAL, 4.5kW NON-SIMULTANEOUS, 240V/1Ph, 0.92 UEF
P3	MANUAL FLUSH TOILET (FLOOR MOUNTED)	AMERICAN STANDARD	MADERA FLOWISE 3461.001	4	1"	-	2"	4"	ELONGATED BOWL, FLOOR MOUNT, 16 1/2" RIM HT., ADA COMPLIANT, MANUAL FLUSH VALVE 6047.121.002, 1.28 GPF
P3	LAVATORY	AMERICAN STANDARD	LUCERNE 21"X18" 0355012.020	4	1/2"	1/2"	-	1 1/2"	WALL-HUNG SINK W/ 4" CENTERSET, INSTALL W/ AMERICAN STANDARD RELIANT 3 7385004.002 FAUCET, SINGLE-HANDLE
P4	BREAKROOM SINK	AMERICAN STANDARD	COLONY 20SB.8252283S.075	1	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE-BOWL, STAINLESS STEEL, 25x22, 3-HOLE TOPMOUNT (CONTRACTOR TO PROVIDE FAUCET)
NOTES: 1) OWNER TO APPROVE ALL FIXTURES PRIOR TO PURCHASING									

LEGEND	
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----	SANITARY PIPING (SS)
-----	VENT PIPING (V)
-----	NATURAL GAS PIPING (NG)
-----	UNION
-----	CHECK VALVE (C.V.)
-----	HYDRANT (NFWH), (NFBH)
-----	GATE VALVE (G.V.)
-----	BALL VALVE (B.V.)
-----	FLOOR CLEANOUT (FCO) OR YARD CLEAN OUT (YCO)
-----	CLEANOUT AT BASE OF STACK (WCO)
-----	HUB DRAIN (HD)
-----	FLOOR DRAIN (F.D.)
-----	P-TRAP
-----	PIPE RISE (UP)
-----	PIPE DROP (DN)
-----	CONNECT TO EXISTING
-----	PIPE CAP
-----	FLANGE CONNECTION
-----	REDUCER
-----	STRAINER
-----	GATE VALVE
-----	CONTINUATION
-----	PLUG VALVE

PLUMBING ABBREVIATIONS	
ABBR.	DESCRIPTION
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
AAV	AIR ADMITTANCE VALVE
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
B/F	BELOW FLOOR
CL	CENTER LINE
CO	CLEANOUT
CLG	CEILING
CW	COLD WATER
DN	DOWN
GV	GATE VALVE
HD	HUB DRAIN
HW	HOT WATER
NFWH	NON-FREEZE WALL HYDRANT
O/H	OVERHEAD
SS	SANITARY
T.P.	TRAP PRIMER
U/C	UNDER COUNTER
VNT	VENT
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEANOUT
WH	WATER HEATER
NOTES:	
THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.	

WATER HAMMER ARRESTER SCHEDULE								
CHART A - FOR GROUPED FIXTURES				CHART B - FOR LONG PIPE RUNS				
P.D.I. SIZE	FIXTURE UNITS	P.D.I. WATER HAMMER ARRESTERS						
		LENGTH OF PIPE	NOMINAL PIPE DIAMETER					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	1-11							
B	12-32	25'	A	A	B	C	D	E
C	33-60	50'	A	B	C	D	E	F
D	61-113	75'	B	C	D	AE	F	EF
E	114-154	100'	C	D	E	F	CF	FF
F	155-330	125'	C	D	F	AF	EF	EFF
		150'	D	E	F	DF	FF	FFF
NOTES:								
1. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PDI-WH201.								



Mailing
 P.O. Box 1479
 Statesboro, GA 30459

Office
 841 Buckhead Dr, Ste 3
 Statesboro, GA 30458

Contact
 912.259.9779
info@clemenseng.com
clemenseng.com

COPYRIGHT 2024 - ALL RIGHTS RESERVED
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM CLEMENS ENGINEERING SERVICES, LLC

**OFFICE EXPANSION
 CITY OF PORT WENTWORTH
 7224 SR-21N, PORT WENTWORTH, GA 31407**

REVIEW

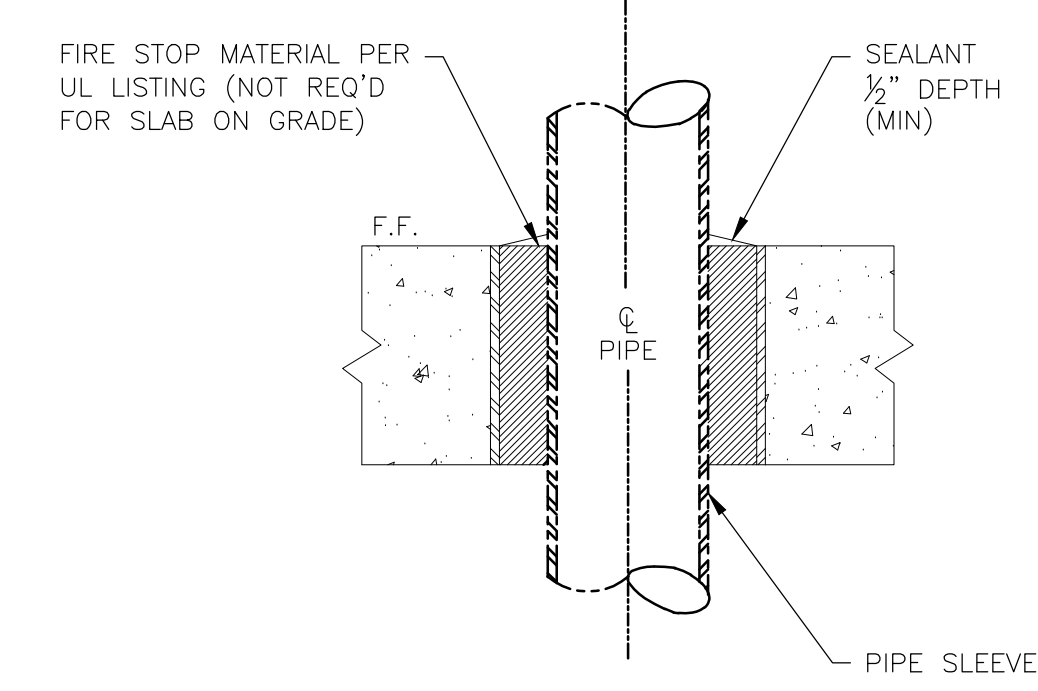
PROJECT NUMBER: 24075.20
 PROJECT DATE: 10/17/24
 DRAWN BY: WHC
 APPROVED BY: WHC

SCHEDULE OF REVISIONS

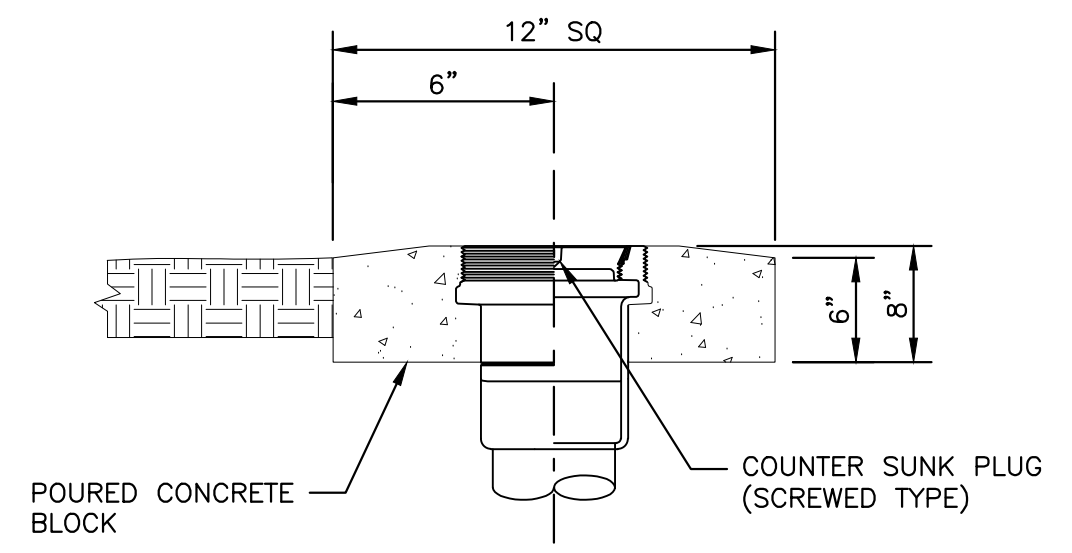
#	DATE
-	-
-	-
-	-
-	-
-	-

PLUMBING NOTES & SCHEDULES

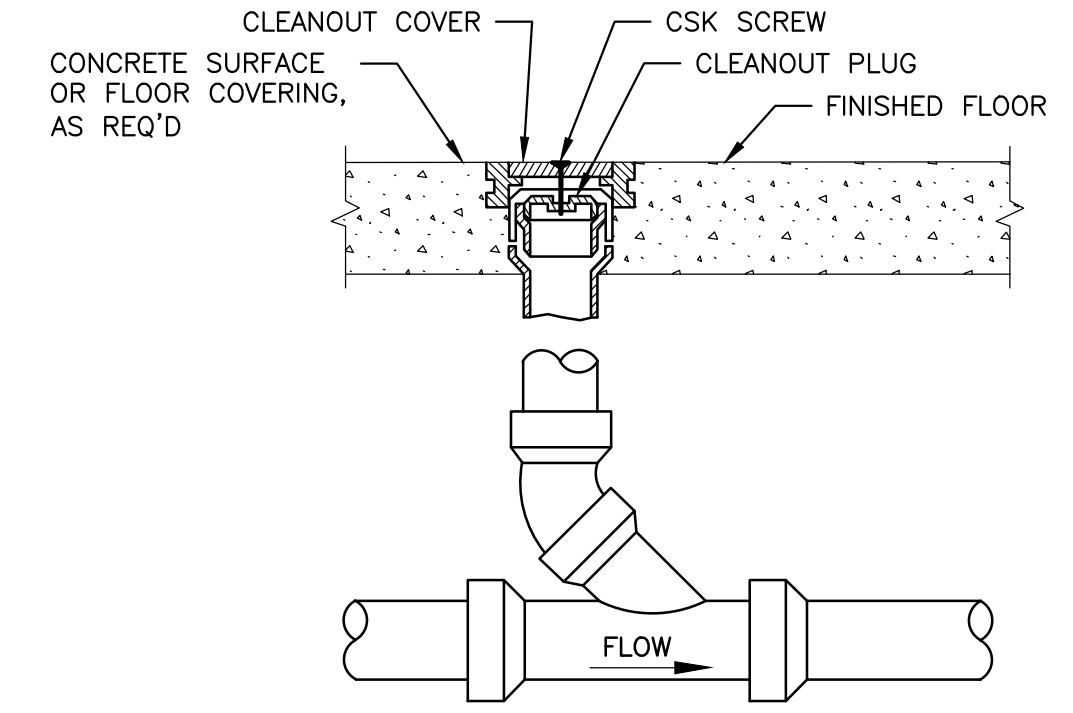
P0.1



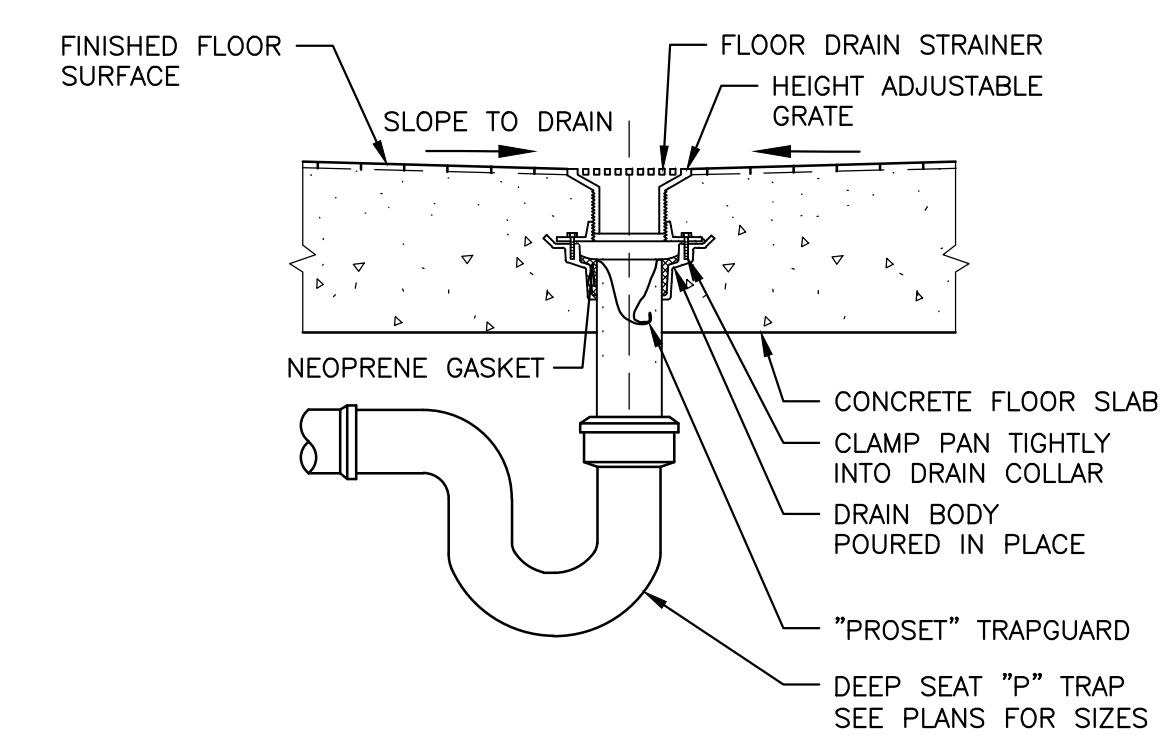
1 PIPE THRU SLAB DETAIL
 SCALE N.T.S.



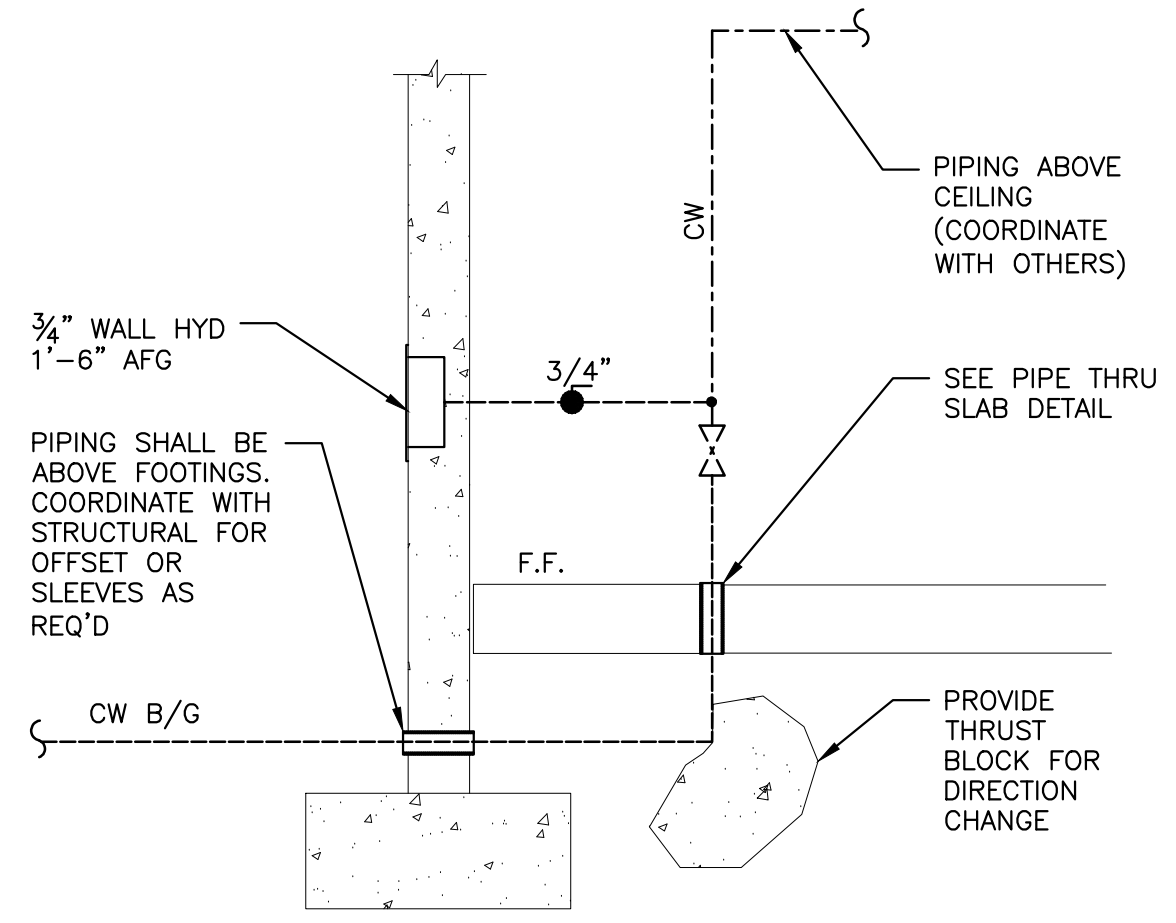
2 GRADE CLEANOUT DETAIL
 SCALE N.T.S.



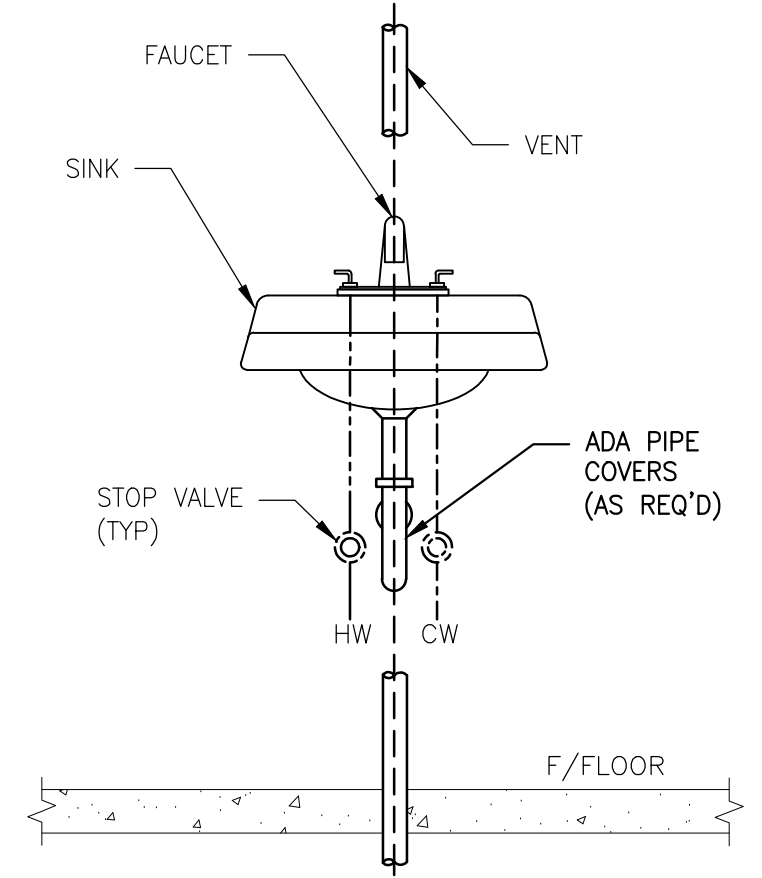
3 FLOOR CLEANOUT DETAIL
 SCALE N.T.S.



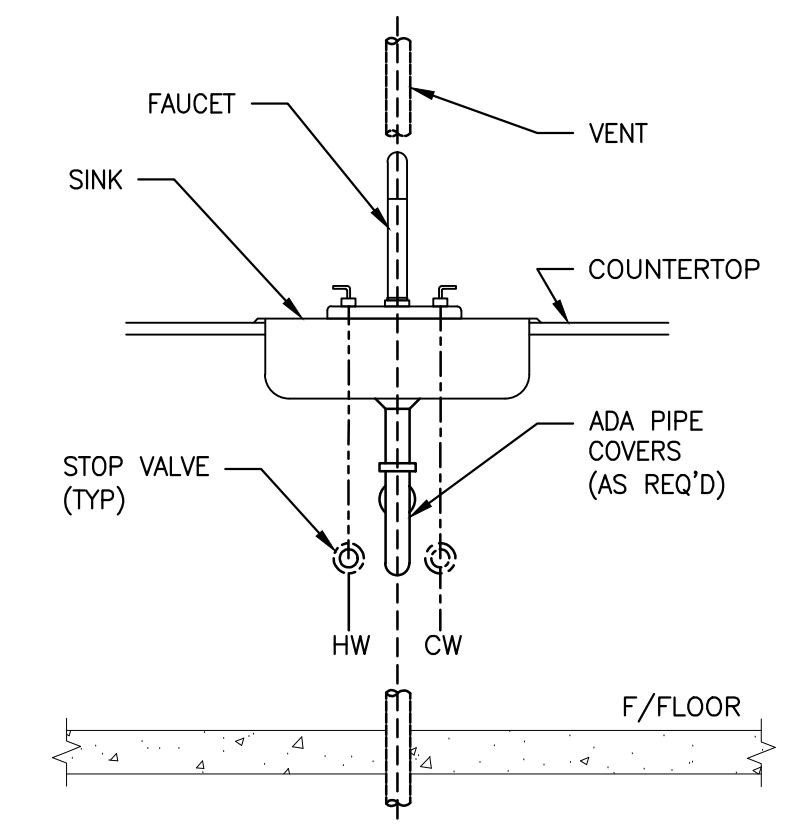
4 FLOOR DRAIN DETAIL
 SCALE N.T.S.



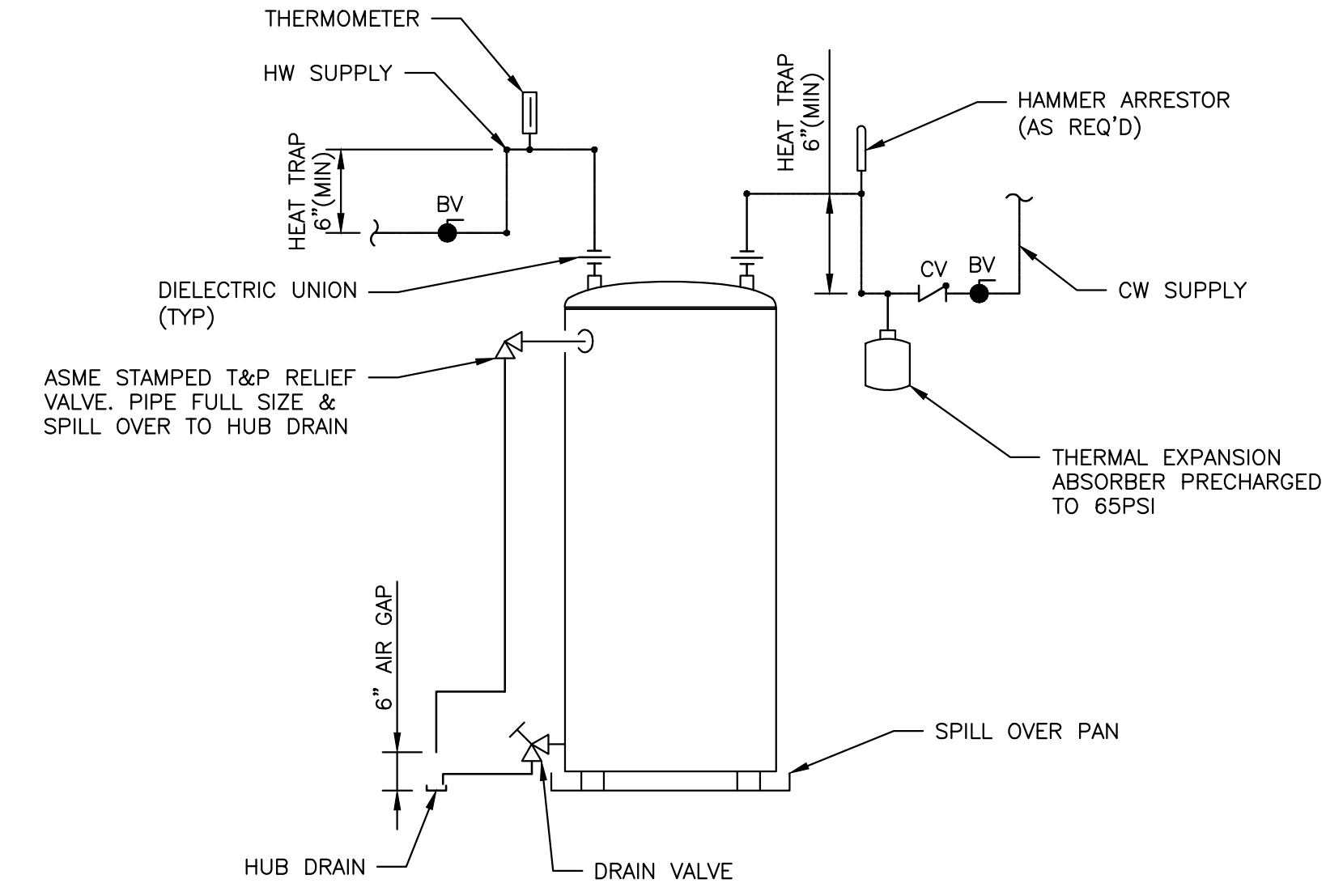
5 PIPE ENTRY DETAIL
 SCALE N.T.S.



6 HAND SINK DETAIL
 SCALE N.T.S.



7 SINK DETAIL
 SCALE N.T.S.



8 WATER HEATER DETAIL
 SCALE N.T.S.

OFFICE EXPANSION
 CITY OF PORT WENTWORTH
 7224 SR-21N, PORT WENTWORTH, GA 31407

REVIEW

PROJECT NUMBER: 24075.20
 PROJECT DATE: 10/17/24
 DRAWN BY: WHC
 APPROVED BY: WHC

SCHEDULE OF REVISIONS

#	DATE
-	-
-	-
-	-
-	-
-	-

PLUMBING
DETAILS

P0.2

KEY NOTES:

- 1 COORDINATE WITH CIVIL CONTRACTOR FOR ROUTING AND INVERT ELEVATION OF SANITARY SEWER.



Mailing
P.O. Box 1479
Statesboro, GA 30459

Office
841 Buckhead Dr, Ste 3
Statesboro, GA 30458

Contact
912.259.9779
info@clemenseng.com
clemenseng.com

COPYRIGHT 2024 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED IN
ANY FORM WITHOUT WRITTEN PERMISSION FROM
CLEMENS ENGINEERING SERVICES, LLC

OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407

REVIEW

PROJECT NUMBER: 24075.20
PROJECT DATE: 10/17/24
DRAWN BY: WHC
APPROVED BY: WHC

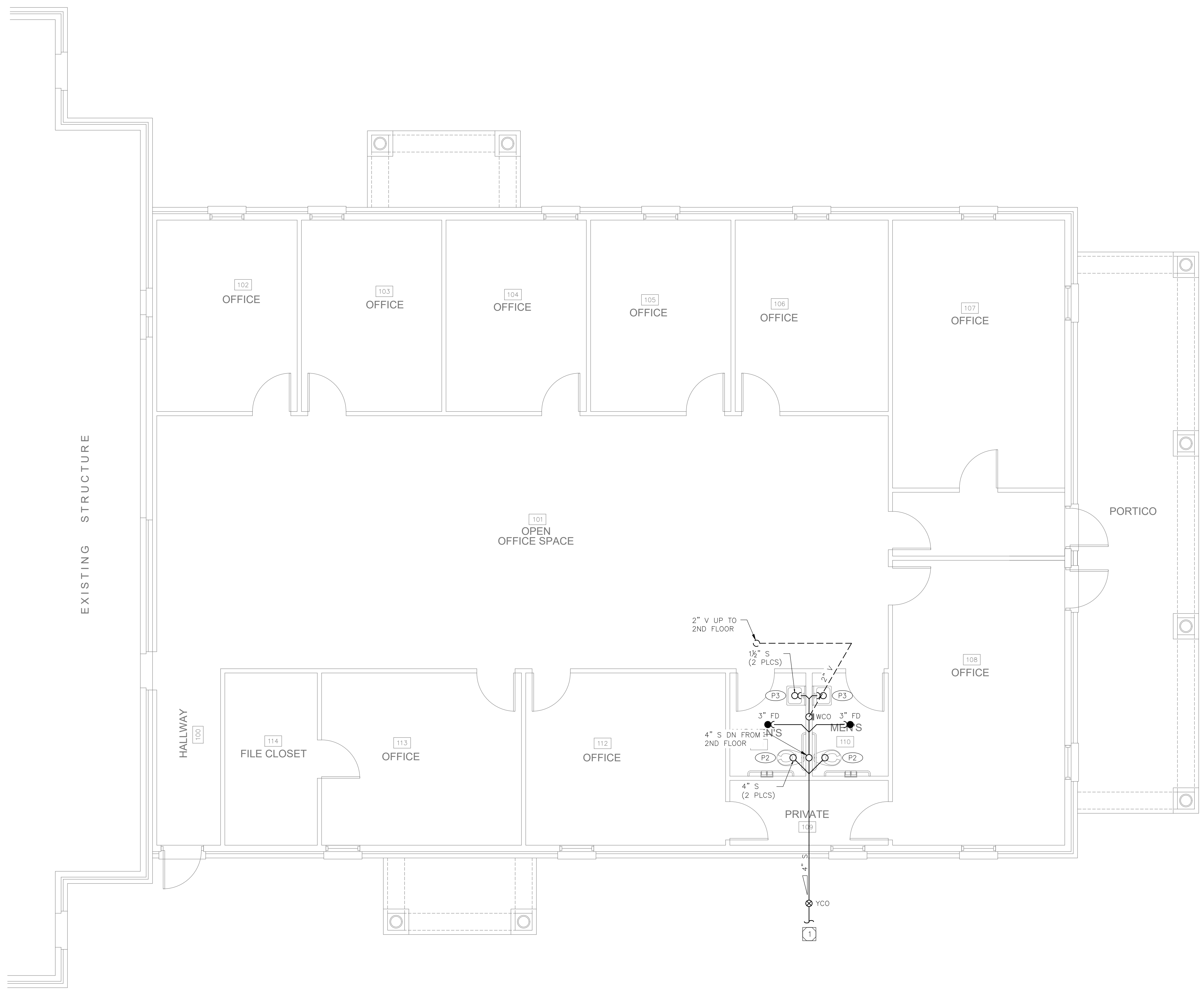
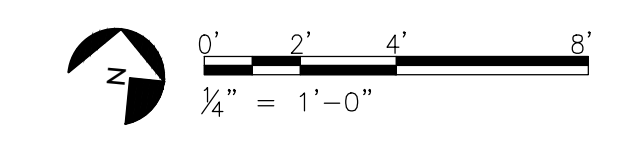
SCHEDULE OF REVISIONS

#	DATE
-	-
-	-
-	-
-	-
-	-

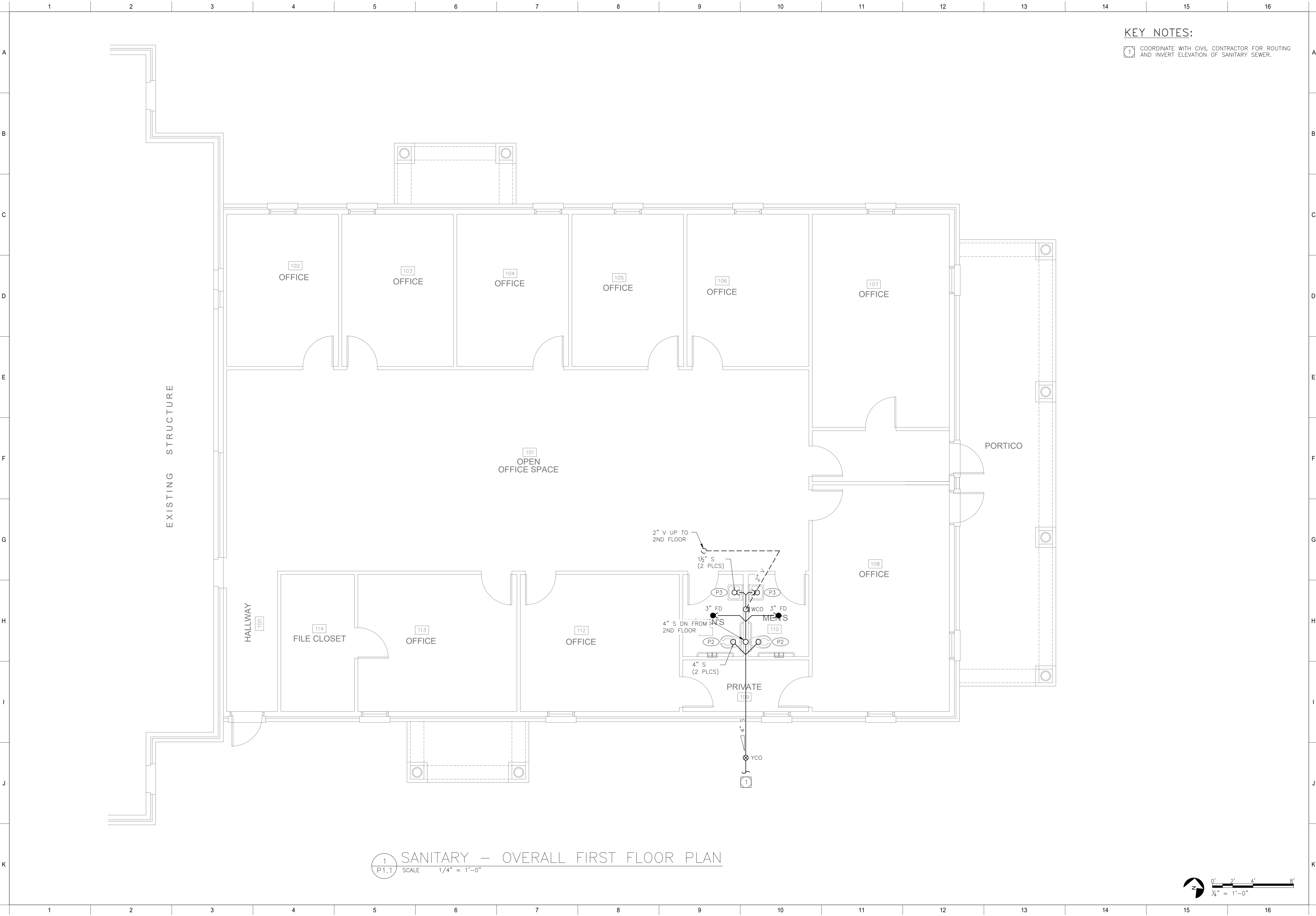
**SANITARY -
OVERALL 1ST
FLOOR PLAN**

P1.1

1 SANITARY - OVERALL FIRST FLOOR PLAN
P1.1 SCALE 1/4" = 1'-0"



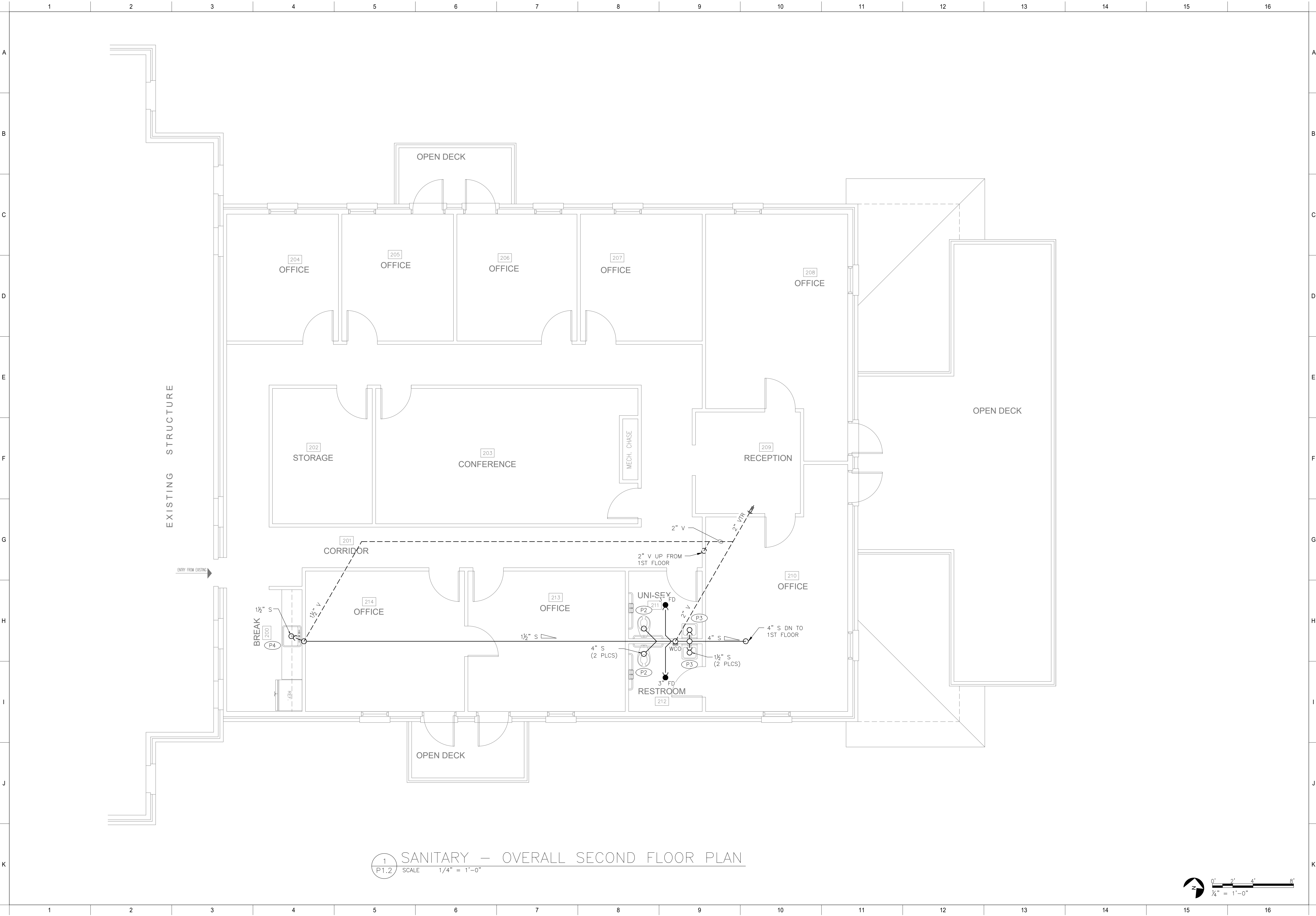
EXISTING STRUCTURE



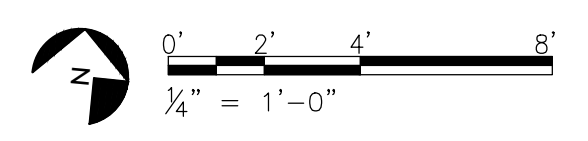
REVIEW	
PROJECT NUMBER:	24075.20
PROJECT DATE:	10/17/24
DRAWN BY:	WHC
APPROVED BY:	WHC
SCHEDULE OF REVISIONS	
#	DATE
-	-
-	-
-	-
-	-
-	-

SANITARY -
 OVERALL 2ND
 FLOOR PLAN

P1.2



1 SANITARY - OVERALL SECOND FLOOR PLAN
 P1.2 SCALE 1/4" = 1'-0"



KEY NOTES:

- 1 COORDINATE WITH CIVIL CONTRACTOR FOR ROUTING AND INVERT ELEVATION OF DOMESTIC WATER



Mailing
P.O. Box 1479
Statesboro, GA 30459

Office
841 Buckhead Dr, Ste 3
Statesboro, GA 30458

Contact
912.259.9779
info@clemenseng.com
clemenseng.com

COPYRIGHT 2024 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED IN
ANY FORM WITHOUT WRITTEN PERMISSION FROM
CLEMENS ENGINEERING SERVICES, LLC

OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407

REVIEW

PROJECT NUMBER: 24075.20
PROJECT DATE: 10/17/24
DRAWN BY: WHC
APPROVED BY: WHC

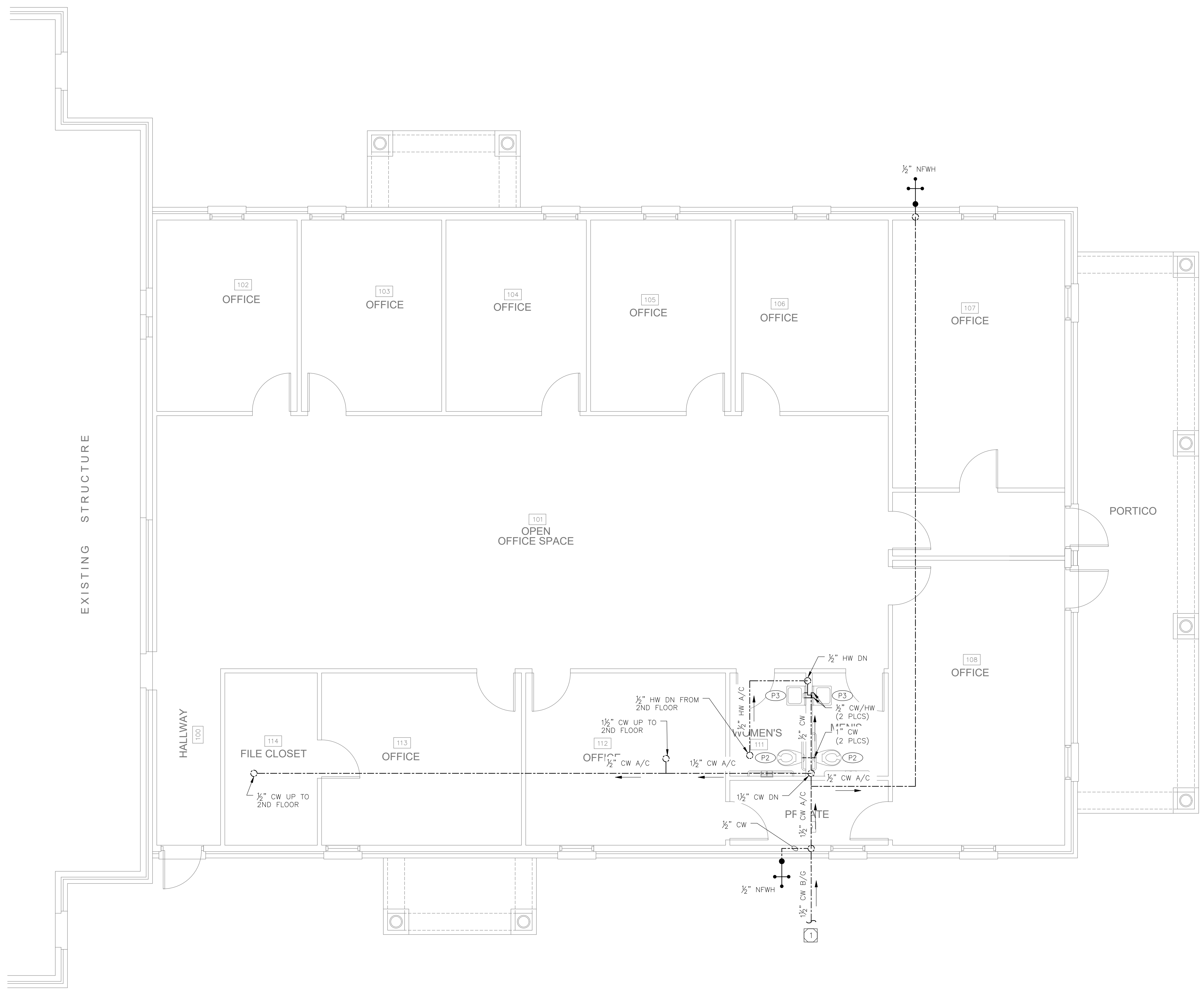
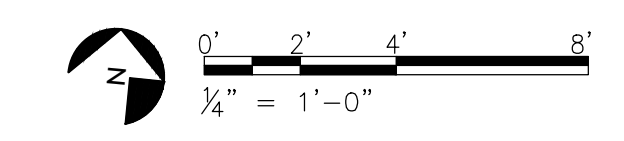
SCHEDULE OF REVISIONS

#	DATE
-	-
-	-
-	-
-	-
-	-

**DOMESTIC WATER -
OVERALL 1ST
FLOOR PLAN**

P2.1

1 DOMESTIC WATER - OVERALL FIRST FLOOR PLAN
P2.1 SCALE 1/4" = 1'-0"



EXISTING STRUCTURE

PORTICO

102 OFFICE

103 OFFICE

104 OFFICE

105 OFFICE

106 OFFICE

107 OFFICE

101 OPEN OFFICE SPACE

108 OFFICE

HALLWAY 100

114 FILE CLOSET

113 OFFICE

112 OFFICE

111 WOMEN'S

1/2" CW UP TO 2ND FLOOR

1/2" CW UP TO 2ND FLOOR

1/2" CW A/C

1/2" CW A/C

1/2" CW DN

1/2" CW

1/2" CW A/C

1/2" CW B/C

1/2" HW DN

1/2" CW/HW (2 PLCS)

1" CW (2 PLCS)

1/2" CW A/C

1/2" CW A/C

PT A/C

1/2" CW

1/2" CW A/C

1/2" CW B/C

1/2" CW

1/2" CW A/C

1/2" CW B/C

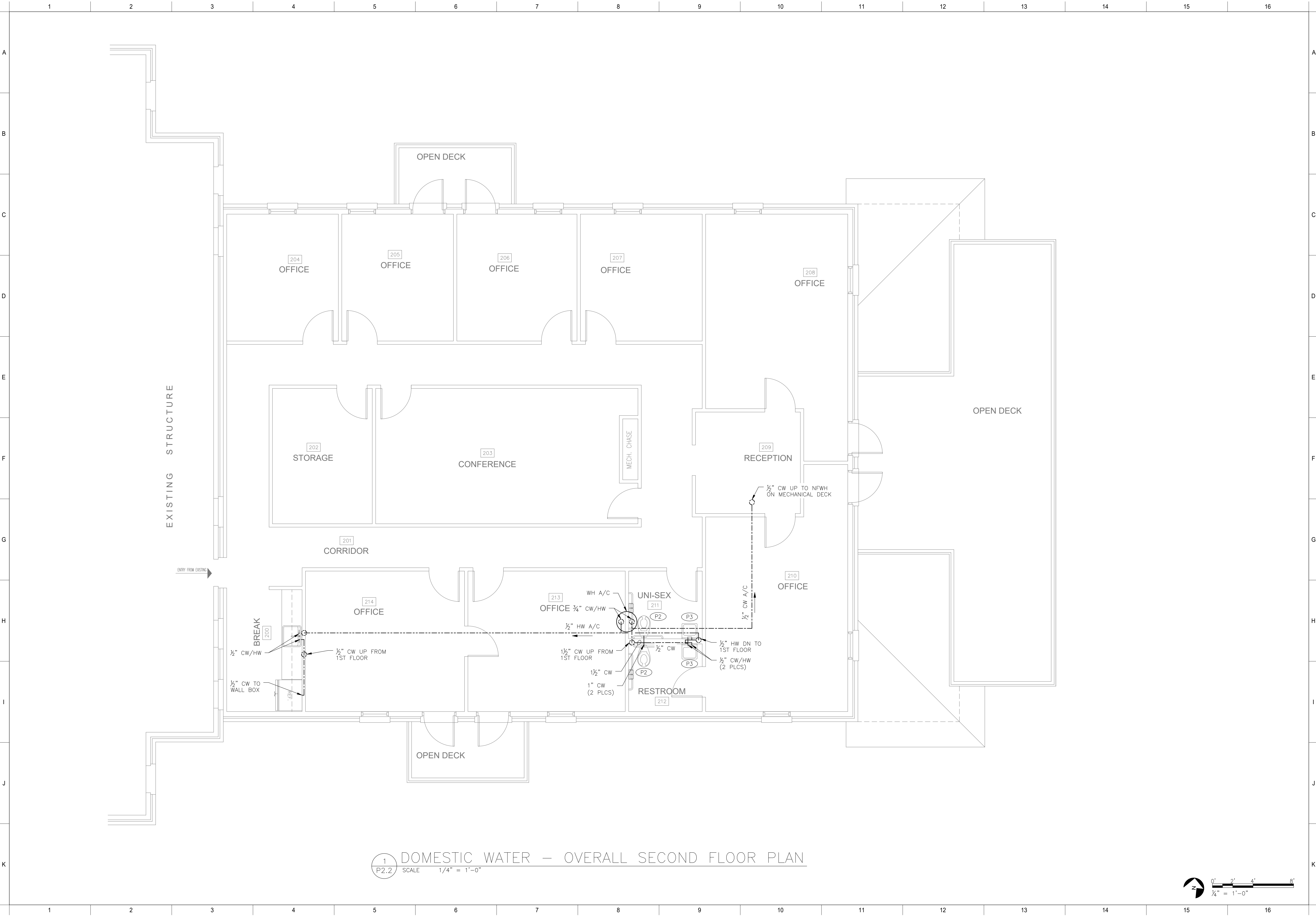
1/2" CW

1/2" CW A/C

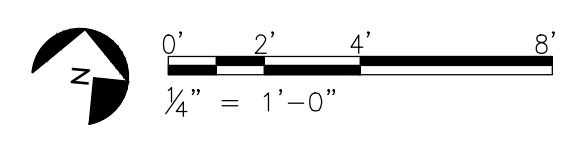
REVIEW	
PROJECT NUMBER:	24075.20
PROJECT DATE:	10/17/24
DRAWN BY:	WHC
APPROVED BY:	WHC
SCHEDULE OF REVISIONS	
#	DATE
-	-
-	-
-	-
-	-
-	-

DOMESTIC WATER -
 OVERALL 1ST
 FLOOR PLAN

P2.2



1 DOMESTIC WATER - OVERALL SECOND FLOOR PLAN
 P2.2 SCALE 1/4" = 1'-0"



MECHANICAL SYMBOLS

	THERMOSTAT (ELECTRIC)
	SMOKE DETECTOR
	OCCUPANCY SENSOR
	FLOW SWITCH
	PRESSURE SWITCH
	DUCT THERMOSTAT
	DUCT HUMIDISTAT
	ACCESS DOOR IN DUCTWORK
	IONIZATION DEVICE
	SHEET METAL DUCT
	DIRECTION OF FLOW
	EXTERNALLY INSULATED SHEET METAL DUCT
	DUCT ELEVATION TAG
	BACK DRAFT DAMPER
	ZONE DAMPER
	VOLUME DAMPER
	STANDARD BRANCH FOR SUPPLY & RETURN (NO SPLITTER)
	WYE JUNCTION
	FLEX DUCT
	ROUND ELBOW UP
	ROUND ELBOW DOWN
	SUPPLY DUCT SECTION UP
	SUPPLY DUCT SECTION DOWN
	RETURN DUCT SECTION UP
	RETURN DUCT SECTION DOWN
	EXHAUST DUCT SECTION UP
	EXHAUST DUCT SECTION DOWN
	DIFFUSER/GRILLE/LOUVER TAG
	EQUIPMENT TAG

MECHANICAL NOTES:

- DUCTWORK MATERIALS
 - COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS— METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS, UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE NEW, FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.
 - RECTANGULAR DUCT SHALL BE A MIN OF 26 GAGE UNLESS NOTED OTHERWISE. ALL STIFFENERS SIZE AND SPACING SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
 - ROUND DUCT SHALL BE A MINIMUM OF 26 GAGE. ROUND DUCT SHALL BE SPIRAL WOUND CONSTRUCTION, UNLESS NOTED OTHERWISE.
 - GALVANIZED SHEET STEEL LOCK FORMING QUALITY; COMPLY WITH ASTM A 653/A 653M AND HAVING G90 (Z275) COATING DESIGNATION.
 - DUCT INSULATION SHALL BE R=6 MINIMUM, EXTERNAL TYPE DUCT INSULATION MICROLITE EQ FSK DUCT WRAP OR APPROVED EQUIVALENT. NO DUCT BOARD OR INTERNALLY INSULATED DUCT WILL BE ALLOWED.
 - ALL DUCTS EXPOSED TO VIEW SHALL BE DOUBLE WALL SPIRAL. FINISH SHALL BE GALVANNEALED STEEL (PAINTABLE) PER ASTM A653, COATING DESIGNATION A40.
 - ALL DUCTWORK SHALL BE INSULATED, UNLESS NOTED OTHERWISE.
- DUCT ACCESSORIES
 - FLEXIBLE CONNECTORS: FLAME-RETARDANT OR NON-COMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1. PROVIDE HEAVY METAL EDGE BANDS, SEALED TO PREVENT LEAKAGE.
 - INDOOR SYSTEM, FLEXIBLE CONNECTOR FABRIC: GLASS FABRIC DOUBLE COATED WITH NEOPRENE.
 - OUTDOOR SYSTEM, FLEXIBLE CONNECTOR FABRIC: GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE. PRE-MANUFACTURE THERMADUCT MAY BE USED.
 - FLEXIBLE DUCTS: UL 181, CLASS 1, BLACK POLYMER FILM SUPPORTED BY HELICALLY WOUND SPRING-STEEL WIRE; 1-1/2" FIBROUS-GLASS INSULATION; POLYETHYLENE VAPOR-BARRIER FILM. FLEX DUCT SHALL BE EQUAL TO CERTAINTED "CERTAFLEX" G25.
- CONTRACTOR SHALL PROVIDE ALL NEW EQUIPMENT PER EQUIPMENT SCHEDULES. EQUIVALENT ALTERNATES MAY BE SUBMITTED FOR APPROVAL BY OWNER'S ENGINEER. PROVIDE DRAWINGS AND SUBMITTALS FOR APPROVAL OF ALL CONTRACTOR PROVIDED EQUIPMENT LISTED IN SCHEDULES AND NOTED ON DRAWINGS AND DETAILS.
- COORDINATE THE LOCATION OF ALL ROOF AND WALL OPENINGS, ALL HVAC EQUIPMENT, CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE STRUCTURAL AND ARCHITECTURAL PLANS, REFLECTED CEILING PLANS, AND ELECTRICAL LIGHTING LAYOUT PRIOR TO ANY INSTALLATION. PROVIDE THE EQUIPMENT WEIGHTS AND CURB SIZES.
- ALL ROOF AND WALL OPENINGS SHALL BE FLASHED AND SEALED WEATHER TIGHT. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF WORK WITH THE GENERAL CONTRACTOR TO INSURE WORK IS GUARANTEED.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- ALL DUCT LAYOUTS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FIELD ROUTED TO AVOID INTERFERENCES.
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, AND PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).
- ALL DUCT SIZES INDICATED ON THE DRAWINGS ARE NET INTERNAL DIMENSIONS WITHOUT INSULATION UNLESS NOTED OTHERWISE.
- ON ALL DRAWINGS (PLAN VIEW), THE RECTANGULAR DUCT SIZE IS EXPRESSED IN TERMS OF WIDTH" X HEIGHT" (INTO PAGE).
- DUCT TURNING VANES SHALL BE USED ON ALL TURNS FOR RECTANGULAR DUCT. LONG RADIUS ELBOWS SHALL BE USED ON ALL TURNS FOR ROUND DUCTS.
- PROVIDE ANCHORAGE FOR ALL PIPING, DUCTWORK AND EQUIPMENT IN ACCORDANCE WITH SMACNA STANDARDS AND ALL APPLICABLE TABLES.
- ALL INTERIOR DUCT SHALL BE HUNG BY THE CONTRACTOR FROM THE ROOF TRUSSES. DUCT SHALL NOT BE SUPPORTED BY CEILING.
- ALL DUCT AND FITTING JOINTS SHALL BE SEAL TO PREVENT AIR LEAKAGE.
- CONTRACTOR SHALL AFFIX MAINTENANCE LABEL TO ALL MECHANICAL EQUIPMENT AND PROVIDE MAINTENANCE MANUALS FOR OWNER'S USE.
- ALL OUTDOOR AIR INTAKES SHALL BE AT A MINIMUM OF 10 FEET AWAY FROM ANY EXHAUST OR PLUMBING VENT SYSTEMS, AND 10 FEET ABOVE GRADE.
- ALL FANS, MAKE-UP AIR UNITS, AND ROOFTOP UNITS SHALL SHUT DOWN IN THE EVENT OF A FIRE ALARM.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL DISCONNECTS, BREAKERS, CONDUIT, AND WIRING, UNLESS OTHERWISE NOTED.

MECHANICAL ABBREVIATIONS

ABBR.	DESCRIPTION
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
B/F	BELOW FLOOR
CL	CENTER LINE
DN	DOWN
EA	EXHAUST AIR
FA	FRESH AIR
O/H	OVERHEAD
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR
VNT	VENT
U/C	UNDER COUNTER

NOTES:
THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.



Mailing
P.O. Box 1479
Statesboro, GA 30459

Office
841 Buckhead Dr, Ste 3
Statesboro, GA 30458

Contact
912.259.9779
info@clemenseng.com
clemenseng.com

COPYRIGHT 2024 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED IN
ANY FORM WITHOUT WRITTEN PERMISSION FROM
CLEMENS ENGINEERING SERVICES, LLC

OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407

REVIEW

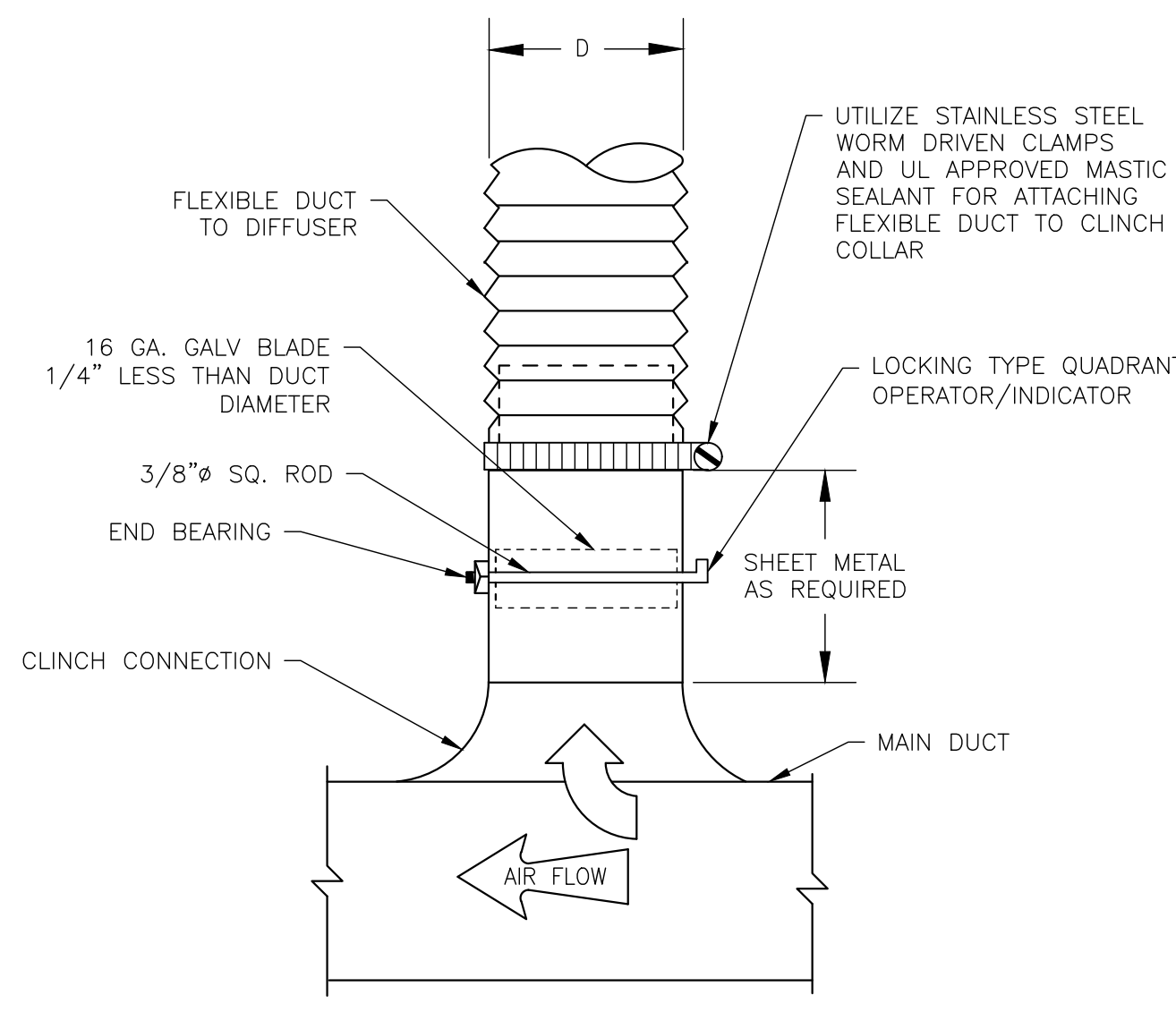
PROJECT NUMBER: 24075.20
PROJECT DATE: 10/17/24
DRAWN BY: WHC
APPROVED BY: WHC

SCHEDULE OF REVISIONS

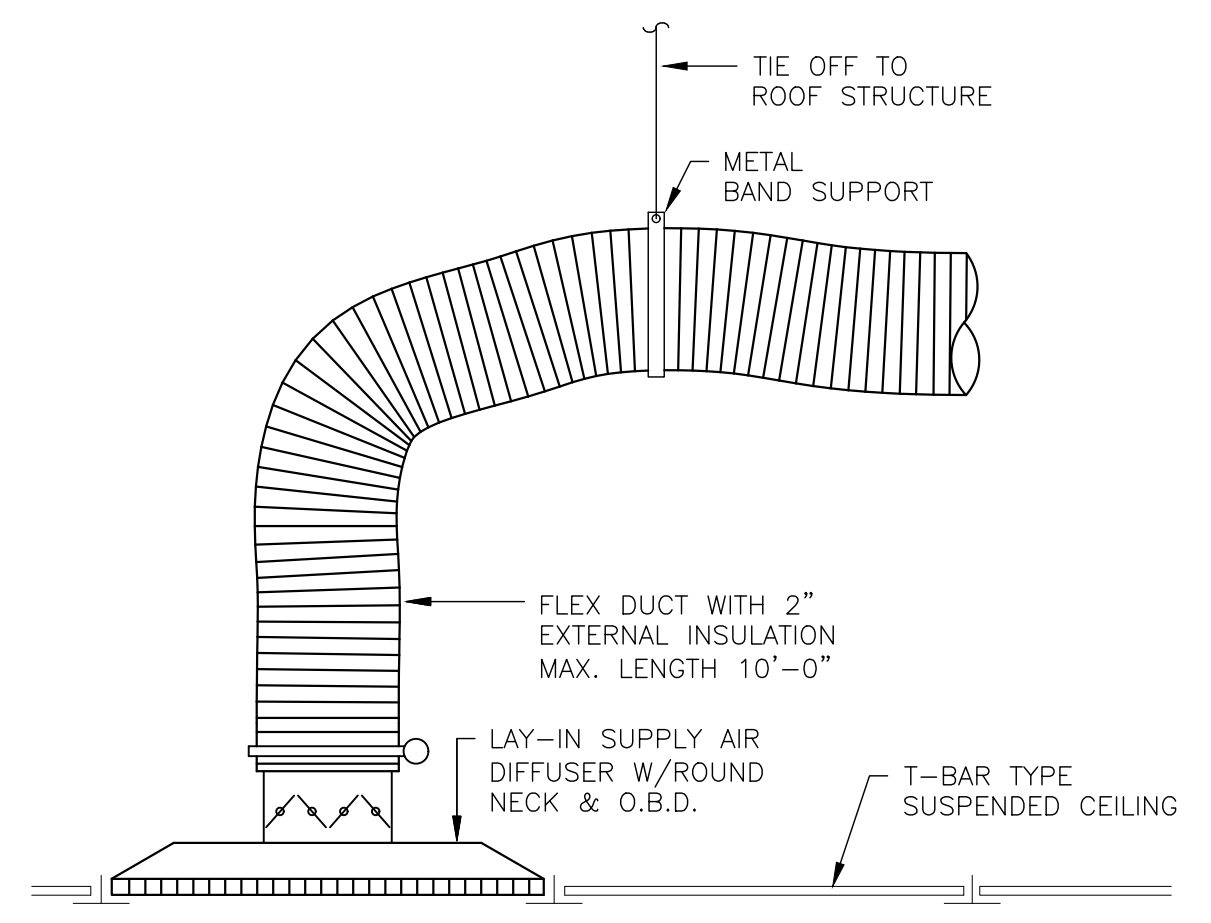
#	DATE
-	-
-	-
-	-
-	-
-	-

MECHANICAL NOTES

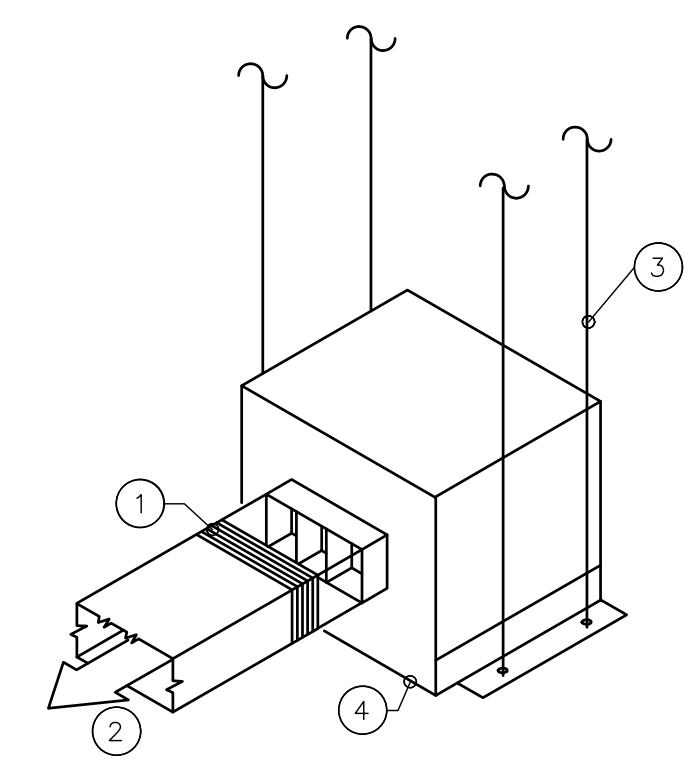
M0.1



1 DUCT BRANCH DETAIL
 SCALE N.T.S.

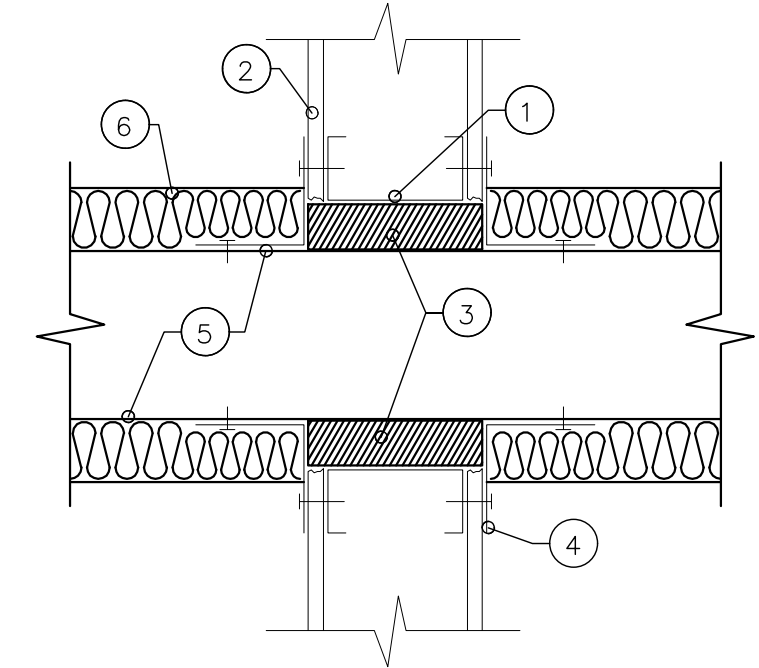


2 DIFFUSER DETAIL
 SCALE N.T.S.



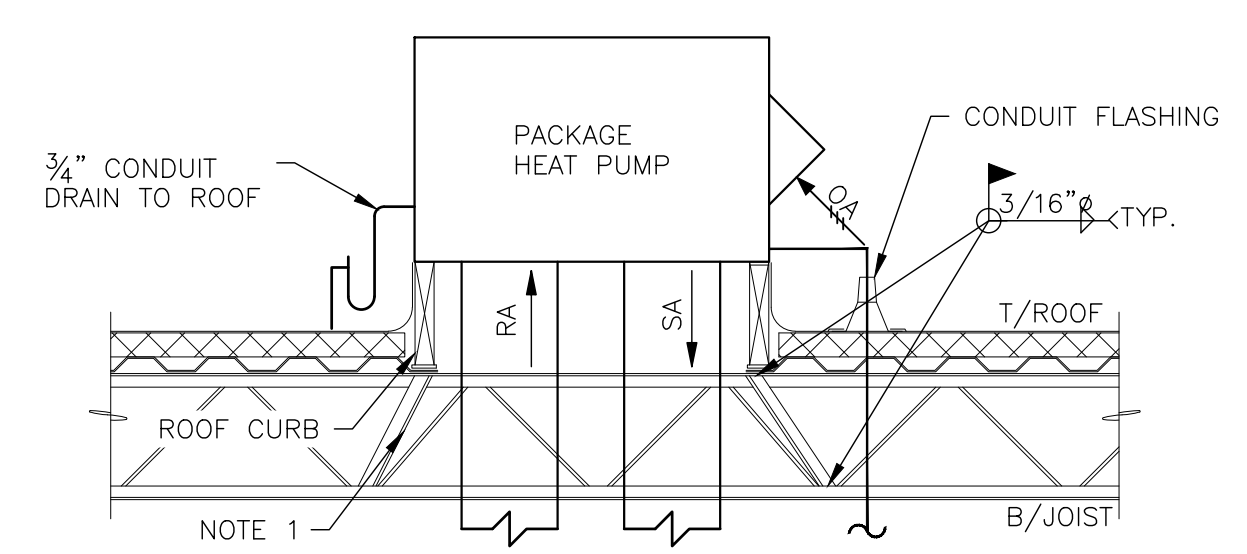
- DETAIL NOTES:
 1. FLEXIBLE CONNECTION
 2. PROVIDE BACKDRAFT DAMPER & WALL CAP
 3. MOUNT FAN FROM STRUCTURE ABOVE, WITH METAL STRAPS
 4. CEILING EXHAUST REGISTER

3 RESTROOM CEILING FAN DETAIL
 SCALE N.T.S.



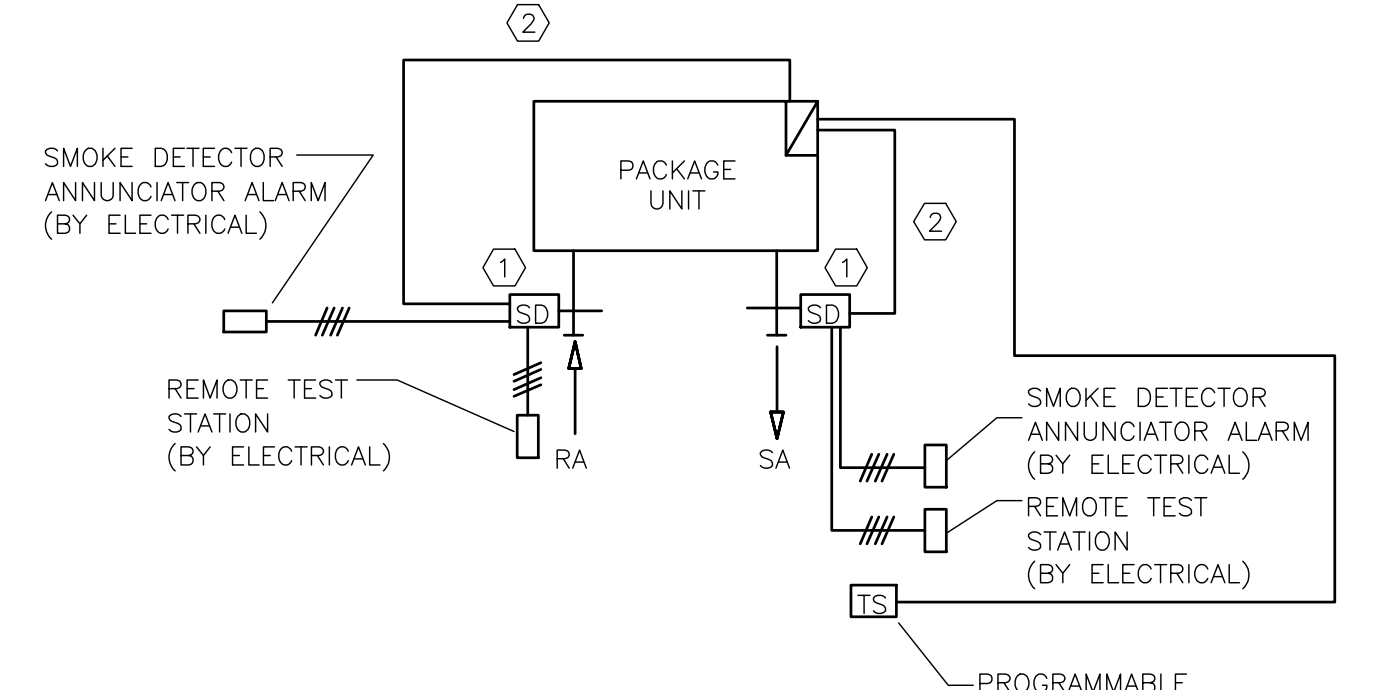
- DETAIL NOTES:
 1. FRAME OPENING IN WALL WITH METAL STUDS. PROVIDE ANNULAR SPACE BETWEEN 1" AND 1-1/2"
 2. SHEETROCK (BY OTHERS)
 3. PACK ANNULAR SPACE TIGHT WITH MINERAL WOOL
 4. MINIMUM 2"x2"x16 GA SHEET METAL ANGLE AROUND DUCT, OVERLAPPING AT CORNERS. ATTACH TO METAL STUD FRAMING AND DUCT WITH SHEET METAL SCREWS, MAXIMUM 6" ON CENTER (BOTH SIDES OF WALL)
 5. DUCTWORK
 6. DUCT WRAP INSULATION

4 DUCT PENETRATION DETAIL
 SCALE N.T.S.



- NOTE 1:
 NOTES:
 1. ADD STEEL VERTICAL UNDER POSTS UNLESS ON PANEL POINTS 2x2x3/4" FROM LOCATION OF LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD OF JOIST (TYP).

5 ROOFTOP UNIT DETAIL
 SCALE N.T.S.



- DETAIL NOTES:
 1. REFERENCE FIRE ALARM SHOP DRAWINGS FOR LOCATION OF DUCT DETECTORS IN SUPPLY AND/OR RETURN.
 2. CONTRACTOR TO PROVIDE AND INSTALL WIRING FROM DUCT DETECTOR RELAY TO RTU TERMINAL STRIP, TO SHUT DOWN UNIT.

6 PACKAGE UNIT WIRING DIAGRAM DETAIL
 SCALE N.T.S.

OFFICE EXPANSION
 CITY OF PORT WENTWORTH
 7224 SR-21N, PORT WENTWORTH, GA 31407

REVIEW

PROJECT NUMBER: 24075.20
 PROJECT DATE: 10/17/24
 DRAWN BY: WHC
 APPROVED BY: WHC

SCHEDULE OF REVISIONS	
#	DATE
-	-
-	-
-	-
-	-
-	-

MECHANICAL DETAILS

M0.2

PACKAGE ROOFTOP UNIT SCHEDULE

MARK	MAKE/ MODEL	QTY	DUCT CONFIG.	DIMENSIONS LxWxH (IN)	TOTAL OPER. WEIGHT (LB)	AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	NOMINAL CAPACITY (TONS)	GROSS COOLING CAPACITY (MBH)	GROSS SENSIBLE COOLING CAPACITY (MBH)	EVAP ENTERING AIR DB/WB (F)	EVAP LEAVING AIR DB/WB (F)	COOLING STAGES	HEATING CAPACITY (MBH)	HEATING LEAVING AIR TEMP. (°F)	IEER/ COP	ELECTRIC HEATER (kW)	ESP (IN WG)	SUPPLY FAN (BHP)	V/Ph/Hz	MCA/MOCP	OPTIONS
RTU-1	CARRIER/ 50FEQ08A2M5-8W0A0	2	VERTICAL SUPPLY/RETURN	88x59x36	1062	3000	300	7.5	86.02	66.18	77 / 63.7	52.9 / 52.1	2	83.9	111.1	79 / 3.4	12	0.5	0.68	208/3/30	79 / 80	1

1. 14-INCH TALL ROOF CURB, CRRFCURB003A01
 2. CARRIER CONNECT PRO WI-FI 7-DAY PROGRAMMABLE/NON-PROG., 33TCSP-4
 3. ELECTRIC HEATER, CRHEATER412A00
 4. SINGLE POINT KIT, CRSINGLE049A00
 5. RETURN AIR FILTERS-(4)20x20x2, MERV-13
 6. ADD IONIZATION DEVICES ON BOTH UNIT RETURNS - GLOBAL PLASMA, GPS-FC48-AC

DIFFUSER & GRILLE SCHEDULE

MARK	MANUFACTURER	MODEL	QTY	FLOW DIRECTION	NECK SIZE	FACE SIZE	PLACEMENT	REMARKS/OPTIONS
RG-1	TITUS	PAR-AA	10	RETURN	20"x20"	24"x24"	CEILING	BORDER TYPE 3, STD FINISH
SD-1	TITUS	OMNI	37	SUPPLY	6"ø	24"x24"	CEILING	BORDER TYPE 3, STD FINISH, AG-15-AA OPPOSED BLADE DAMPER,
SD-2	TITUS	OMNI	6	SUPPLY	8"ø	24"x24"	CEILING	BORDER TYPE 3, STD FINISH, 4-WAY, AG-15-AA OPPOSED BLADE DAMPER,
SD-3	TITUS	OMNI	4	SUPPLY	4"ø	12"x12"	CEILING	BORDER TYPE 3, STD FINISH, 4-WAY, AG-15-AA OPPOSED BLADE DAMPER,

DESIGN CONDITIONS SCHEDULE

ASHRAE	ELEV.	LAT.	LONG.	SUMMER				WINTER		WINDS (COOLING)	
				%COL	*Fdb	*Fwb	RANGE	%COL	*Fdb	VEL	DIR
WMO# 722070	16	32.12N	81.20W	0.4%	95.5	77.3	18.1	99.6%	27.1	4.7	300

1. SOURCE: 2017 ASHRAE HANDBOOK - FUNDAMENTALS
 2. WINTER HEATING DESIGN TEMPERATURE FOR INDOORS: 70°F
 3. SUMMER COOLING DESIGN TEMPERATURE INDOORS: 72°F

FAN SCHEDULE

MARK	MANUFACTURER / MODEL	QTY	LOCATION	DRIVE TYPE	AIRFLOW (CFM)	FLOW DIRECTION	TOTAL EXT. SP (IN W.C.)	FAN RPM	V/Hz/Ph	OPTIONS
EF-1	GREENHECK/ SP-B70	2	RESTROOM	DIRECT	60	EXHAUST	0.27	675	115/60/1	1-5

OPTIONS:
 1. DESIGNER GRILLE
 2. ROUND DUCT CONNECTION
 3. POLYPROPYLENE WHEEL MATERIAL
 4. ENERGY STAR RATED
 5. TRANSITION DUCT REDUCER



Mailing
P.O. Box 1479
Statesboro, GA 30459

Office
841 Buckhead Dr, Ste 3
Statesboro, GA 30458

Contact
912.259.9779
info@clemenseng.com
clemenseng.com

COPYRIGHT 2024 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED IN
ANY FORM WITHOUT WRITTEN PERMISSION FROM
CLEMENS ENGINEERING SERVICES, LLC

**OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407**

REVIEW

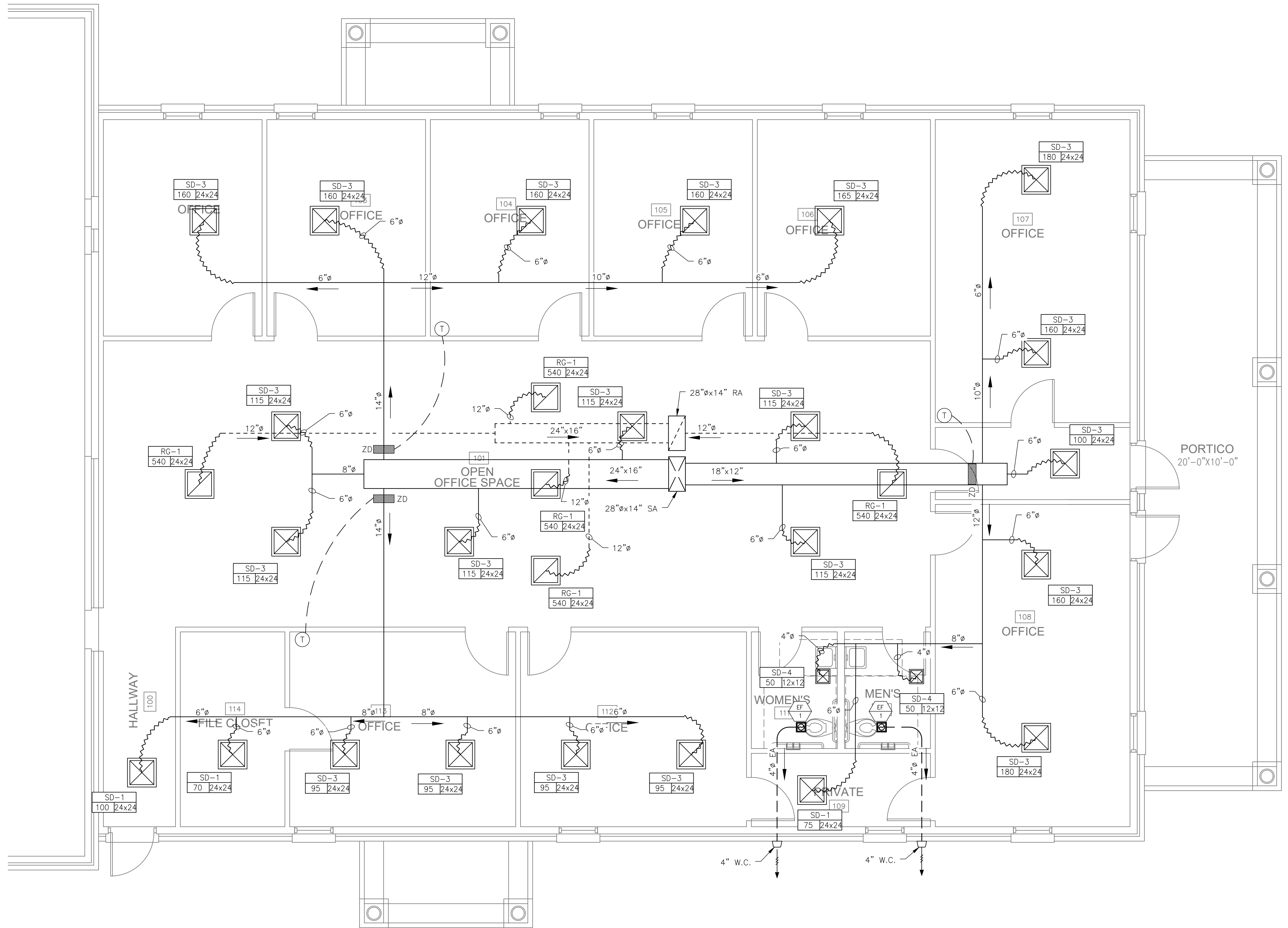
PROJECT NUMBER: 24075.20
 PROJECT DATE: 10/17/24
 DRAWN BY: WHC
 APPROVED BY: WHC

SCHEDULE OF REVISIONS

#	DATE
-	-
-	-
-	-
-	-
-	-

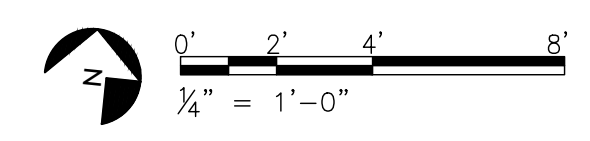
**MECHANICAL
SCHEDULES**

M0.3



OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407

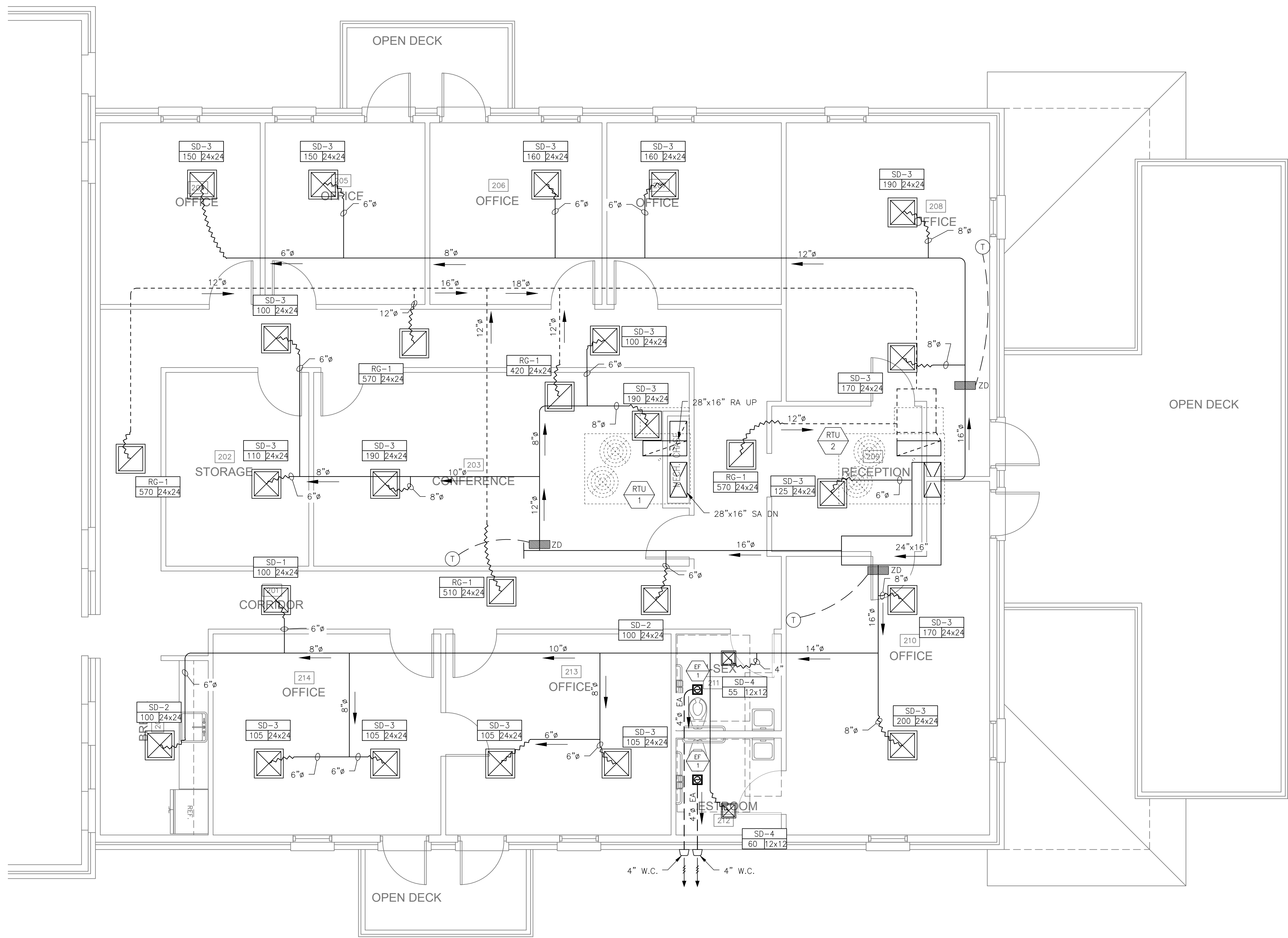
1 MECHANICAL - OVERALL FIRST FLOOR PLAN
 M1.1 SCALE 1/4" = 1'-0"



REVIEW	
PROJECT NUMBER:	24075.20
PROJECT DATE:	10/17/24
DRAWN BY:	WHC
APPROVED BY:	WHC
SCHEDULE OF REVISIONS	
#	DATE
-	-
-	-
-	-
-	-
-	-

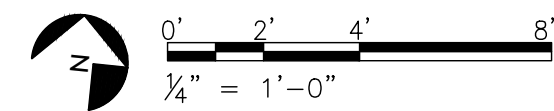
**MECHANICAL -
 OVERALL FIRST
 FLOOR PLAN**

M1.1



OFFICE EXPANSION
CITY OF PORT WENTWORTH
7224 SR-21N, PORT WENTWORTH, GA 31407

1 MECHANICAL - OVERALL SECOND FLOOR PLAN
 M1.2 SCALE 1/4" = 1'-0"



REVIEW

PROJECT NUMBER: 24075.20
 PROJECT DATE: 10/17/24
 DRAWN BY: WHC
 APPROVED BY: WHC

SCHEDULE OF REVISIONS

#	DATE
-	-
-	-
-	-
-	-
-	-

**MECHANICAL-
 OVERALL SECOND
 FLOOR PLAN**

M1.2

LEGEND:

LIGHTING FIXTURES:

UPPERCASE LETTER ADJACENT TO FIXTURE DENOTES DESIGNATION PER THE LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTER DENOTES SWITCHLEG. THE RESPECTIVE SWITCH WILL HAVE THE SAME DESIGNATION. NUMERAL DENOTES BRANCH CIRCUIT CONNECTION. FIXTURE TYPE ENDING WITH 'D' SUFFIX INDICATES FIXTURE THAT REQUIRES DIMMING BALLAST. (EXAMPLE FIXTURE TYPE A3D)
REFER TO THE FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION. EMERGENCY FIXTURES SHALL HAVE FACTORY INSTALLED INTERNAL BATTERIES, PER SPECIFICATIONS.
NL SUFFIX ADJACENT TO FIXTURE TYPE DENOTES NIGHT LIGHT. DO NOT SWITCH THESE FIXTURES.

NON-EMERGENCY	EMERGENCY		
		LIGHTING FIXTURE: LINEAR LED	
		LIGHTING FIXTURE: LED, WALL MTD.	
		DOWNLIGHT/SCONCE FIXTURE	
		EXIT/AREA OF REFUGE LIGHT: UNIVERSAL MTD.	
		DIRECTIONAL FIXTURE: EMERGENCY TYPE	
		LIGHT TRACK: LENGTH AS SHOWN	

WIRING DEVICES:

RECEPTACLES:

NOMINAL MOUNTING HEIGHT OF RECEPTACLES SHALL BE 18" TO CENTER, UNO. IF APPLICABLE, ADJUST SO DEVICE COVER IS IN THE CENTER OF MASONRY COURSE NEAREST THAT HEIGHT. THE HEIGHT ESTABLISHED SHALL GOVERN FOR ALL BOX INSTALLATIONS, WHERE INSTALLED IN MASONRY OR FRAMED WALLS.

	RECEPTACLE: DUPLEX
	RECEPTACLE: GROUND-FAULT-INTERRUPTING-TYPE
	FLOOR RECEPTACLE: EMBEDDED IN SLAB W/ BRASS TRIM & COVER

SWITCHES:

MOUNTING HEIGHT OF SWITCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE SAME MANNER AS SPECIFIED ABOVE, FOR RECEPTACLES. LOWER CASE LETTER INDICATES SWITCHLEG CONNECTION. THE RESPECTIVE FIXTURE(S) WILL HAVE THE SAME DESIGNATION.

	SWITCH: SINGLE-POLE
	SWITCH: THREE-WAY TYPE
	SWITCH: OCCUPANCY SENSOR, CEILING MOUNTED
	SWITCH: OCCUPANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES
	SWITCH: VACANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES
	SWITCH: SENSOR OVERRIDE, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES
	DIMMER SWITCH: PROVIDE 0-10V DIMMER & ON/OFF SWITCH FOR MANUAL OVERRIDE CONTROL OF OCCUPANCY SENSOR IN SAME SPACE x DENOTES RESPECTIVELY CONTROLLED FIXTURE

DEVICE IDENTIFIER TAGS:

NUMERAL ADJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION. IDENTIFIER TAGS ADJACENT TO DEVICES INDICATE:

	MOUNT ABOVE COUNTERTOP OR BACKSPLASH, 6" ABOVE WORK SURFACE TO CENTER.
	MOUNT DEVICE AT HEIGHT INDICATED.
	PROVIDE WEATHER-PROOF COVER.
	MOUNT DEVICE AT 72" AFF, ADJACENT TO TV RECEPTACLE
	DUPLEX USB PORT INTEGRAL WITH RECEPTACLE (MOUNT RECEPTACLE ABOVE TABLE OR 6" BELOW BAR SURFACE)

GENERAL NOTES:

- WHERE COMPLETE BRANCH CIRCUIT WIRING IS NOT SHOWN, PROVIDE ACCORDING TO HOMERUNS SHOWN AND CORRESPONDING CIRCUIT NUMBERS ADJACENT TO THE DEVICE OR FIXTURE. REFER TO THE SPECIFICATIONS FOR WIRING METHODS. BRANCH CIRCUIT RATINGS SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES.
- REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT RATINGS & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUITS REQUIREMENTS, BREAKERS SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE AN IN-BUILDING BI-DIRECTIONAL AMPLIFIER (BDA) SYSTEM FOR PUBLIC SAFETY RADIO ENHANCEMENT PER IFC 510 AND INSTALL PER NFPA 1 ANNEX O. COORDINATE RADIO FREQUENCY BANDWIDTH REQUIREMENTS WITH THE AHJ PRIOR TO INSTALLATION. TEST RADIO COVERAGE IN BUILDING PER NFPA 1 ANNEX O. IF INBOUND/OUTBOUND RADIO SIGNAL STRENGTH MEETS THE CRITERIA OF NFPA1 ANNEX O, DO NOT INSTALL BDA SYSTEM AND PROVIDE CREDIT TO THE OWNER.

ELECTRICAL EQUIPMENT:

REFER TO ONE-LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT CUT-SHEETS AND INSTALLER.

	NON-FUSIBLE DISCONNECT SWITCH
	PANELBOARD: LIGHTING-TYPE, SURFACE MOUNTED
	PANELBOARD: LIGHTING-TYPE, FLUSH MOUNTED
	EQUIPMENT AS NOTED, SEE ABBREVIATION LIST, THIS SHEET
	PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

BRANCH CIRCUITS:

CONDUCTOR COUNTS ARE SHOWN ON HOMERUNS ONLY. CONTRACTOR SHALL DETERMINE COUNTS FOR INTERMEDIATE RUNS BASED ON THE MANNER IN WHICH CIRCUIT ELEMENTS ARE CONNECTED. REFER TO SPECIFICATION SECTIONS 262010, 262080, & 262030 FOR SPECIAL REQUIREMENTS.

	BRANCH CIRCUIT: CONCEALED
	BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB
	BRANCH CIRCUIT: EXPOSED
	'HOMERUN' TO PANEL: NUMBER OF HASH MARKS INDICATE QUANTITY OF NO. 12 AWG UNGROUNDED CONDUCTORS IN 3/4" RACEWAY. GROUNDED CONDUCTORS (NEUTRALS) ARE NOT SHOWN - ONE DEDICATED NEUTRAL IS REQUIRED FOR EACH UNGROUNDED CONDUCTOR INSTALLED. SEE SPECIFICATIONS. EACH CONDUCTOR SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE.

MISCELLANEOUS COMPONENTS:

	JUNCTION BOX: MOUNTED ABOVE CEILING
	JUNCTION BOX: WALL MOUNTED
	COMMUNICATIONS BACKBOARD: 3/4" THICK FIRE RATED TYPE AC PLYWOOD PAINTED, 4' HIGH, LENGTH AS INDICATED, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	CONNECTION TO GROUNDING ELECTRODE
	CIRCUIT BREAKER: TRIP/POLES INDICATED
	SPACE FOR FUTURE CIRCUIT BREAKER

TELECOMMUNICATIONS:

THE CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL DEVICES AND WIRING. VERIFY ADJACENCY TO CORRESPONDING POWER RECEPTACLES. OUTLETS SHALL BE INSTALLED AT THE SAME HEIGHT AS CORRESPONDING POWER OUTLETS, UNO. OTHER DEVICES WHOSE LOCATIONS ARE NOT DEPENDENT ON RECEPTACLE PLACEMENT SHALL BE COORDINATED WITH SYSTEM INSTALLER.

	WALL MTD. TELECOMMUNICATION OUTLET-(2) CAT 6 UTP CABLE FROM TELECOMMUNICATION BACKBOARD, VERIFY LOCATION PRIOR TO PULLING.
	WALL MTD. CATV OUTLET-(1) RG-6 CABLE FROM IT ROOM, VERIFY LOCATION PRIOR TO PULLING. MTD. AT 60" AFF, UNO.
	CONDUIT SLEEVE: NUMBER & SIZE, 2-4" TYP., UNO
	OUTLET BOX AND 3/4" C. FOR SECURITY CAMERA, MT. 6" BELOW CEILING

ABBREVIATIONS:

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AIC	AMPERAGE INTERRUPT CAPABILITY
ATU	AIR TERMINAL UNIT
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
C	CONDUIT
CU	CONDENSING UNIT
DIA	DIAMETER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
FAF	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
G	GROUND
GFI	GROUND-FAULT INTERRUPTING
HP	HORSE POWER
KCMIL	KILO CIRCULAR MIL
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCF	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
No.	NUMBER
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
RGS	RIGID GALVANIZED STEEL
RTU	ROOFTOP UNIT
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BACK BOARD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WATTAGE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF

ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS:

APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE NATIONAL ELECTRICAL CODE (NFPA NO. 70), CURRENTLY ADOPTED EDITION, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR ELECTRICAL WORK.

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT A COMPLETE AND OPERABLE ELECTRICAL SYSTEM. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

WITH PERMISSION FROM THE OWNER, EXISTING ELECTRICAL EQUIPMENT MAY BE REUSED IF THE SIZE, RATING AND CAPACITY MEETS THE EXACT REQUIREMENTS AS SPECIFIED IN THESE DOCUMENTS. EQUIPMENT THAT IS REUSED SHALL BE CLEANED AND/OR REPAIRED TO ORIGINAL CONDITION BEFORE INSTALLATION. EXISTING MATERIALS MADE UNNECESSARY SHALL REMAIN THE PROPERTY OF THE OWNER.

2. MATERIALS:

- ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.
 - RACEWAY SYSTEM: ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT. EXPOSED CONDUITS IN MECHANICAL SPACES AND CLOSETS SHALL BE RGS OR IMC. EXPOSED CONDUITS IN FINISHED SPACES SHALL BE SURFACE METAL RACEWAY (WIREMOLD). CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE, EXCEPT THAT STEEL SET SCREW TYPE WILL BE ACCEPTABLE FOR EMT CONDUIT SIZES 2-1/2" AND LARGER. SUPPORT RACEWAY USING WOOD SCREWS TO WOOD; BY TOGGLE BOLTS ON HOLLOW MASONRY UNITS; BY CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR BRICK; BY MACHINE SCREWS, WELDED THREADED STUDS, OR SPRINGTENSION CLAMPS ON STEEL WORK. CONDUIT SUPPORTS SHALL BE TWO-HOLE STRAPS, WALL BRACKETS, HANGERS OR CEILING TRAPEZE.
 - BOXES: PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS. PROVIDE CAST ALUMINUM BELL TYPE FOR ALL EXTERIOR WET LOCATIONS. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1-1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4-11/16" SQUARE BY 2-1/8" DEEP. PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.
 - WIRE AND CABLES: CONDUCTORS SHALL BE COPPER, TYPE THHN OR THWN, UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE COLOR CODED.
 - WIRING DEVICES: PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, OR COOPER. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY-DUTY TYPE RECEPTACLES 2-POLE, 3-WIRE GROUNDING, SIDE WIRING, NEMA 5-20R, 20-AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE. LIGHT SWITCHES SHALL BE RATED 20 AMPS. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURER'S RECOMMENDED SIZE AND MODEL FOR EACH SPACE. EXACT LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL BUILDING AUTOMATION, WATTSTOPPER, COOPER.
 - LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. ALL LED FIXTURES SHALL BE EQUIPPED WITH DIMMABLE DRIVERS. PROVIDE ALL LOW VOLTAGE CABLING REQUIRED FOR DIMMING SCHEME SHOWN. FIXTURE CATALOG NUMBERS INDICATE STYLE OF FIXTURE REQUIRED. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED SELF-TESTING/SELF-DIAGNOSTIC BATTERY-OPERATED EMERGENCY BALLAST. LIGHTING EQUIPMENT SHALL AUTOMATICALLY PERFORM A TEST WITH A DURATION OF A MINIMUM OF 30 SECONDS AND A DIAGNOSTIC ROUTINE AND SHALL INDICATE FAILURES BY A VISIBLE STATUS INDICATOR ONLY. THE BALLAST SHALL BE CAPABLE OF OPERATING FULL OUTPUT FOR 90 MINUTES.
 - PANELBOARDS: PROVIDE PANELBOARDS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE PANELBOARDS OF THE TYPE, SIZE, AND RATING INDICATED. LIGHTING AND APPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 20" WIDE. PANELS SHALL BE EQUIPPED WITH COPPER BUS BARS, FULL-SIZED NEUTRAL BAR, AND A GROUND BUS. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE, HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSED COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. PROVIDE LAMINATED PLASTIC NAMEPLATE. CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING TYPE CIRCUIT BREAKERS. PROVIDE NEW/UPDATED SCHEDULES FOR ALL PANELBOARDS. PROVIDE 1500,00 AMP PER MODE SURGE PROTECTION DEVICE AT ALL MAIN SERVICE PANELS.
 - GROUNDING: ELECTRICAL GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NEC. PROVIDE ELECTRICAL BRAZING OR EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR NO OTHER PURPOSE. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER-CLAD STEEL, SECTIONAL TYPE.
 - DISCONNECT SWITCHES: PROVIDE DISCONNECTS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK-BREAK TYPE SWITCHES. ALL SWITCHES SHALL BE UL LISTED. DISCONNECTS SHALL BE NON-FUSED TYPE, UNO.
 - FIRE ALARM SYSTEM: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF NFPA No. 70 AND 72, CURRENTLY ADOPTED EDITIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR WORK ASSOCIATED WITH THE FIRE ALARM SYSTEM. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, MONITORING AND SUPERVISION TO CONSTRUCT A COMPLETE AND OPERABLE FIRE ALARM SYSTEM. THIS IS A PERFORMANCE-BASED SPECIFICATION. THE SYSTEM SPECIFIED HEREIN SHALL BE DESIGNED BY THE MANUFACTURER OR AN AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER WHO IS EITHER A REGISTERED FIRE PROTECTION ENGINEER OR A NICET CERTIFIED ENGINEERING TECHNOLOGIST. SYSTEM SHALL BE COMPATIBLE WITH SECURITY SYSTEM. COORDINATE WITH SECURITY SYSTEM INTEGRATOR. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS. ALL MATERIALS SHALL CONFORM TO U.L. AND NEMA REQUIREMENTS. PROVIDE INTELLIGENT, ADDRESSABLE, ANALOG FIRE ALARM SYSTEM. IT IS THE RESPONSIBILITY OF THE MANUFACTURER'S REPRESENTATIVE TO SUBMIT APPROPRIATE DRAWINGS, CALCULATIONS, AND OTHER SUPPORTING DOCUMENTS TO THE AUTHORITY HAVING JURISDICTION FOR PERMIT APPROVAL.
- REFER TO ARCHITECTURAL SECTION FOR LOCATION OF FIRE RATED WALLS AND CEILINGS. ALL OUTLETS, FIXTURES, AND THROUGH PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH THE NFPA 70 AND THE UL DESIGN No. OF THE TYPE OF CONSTRUCTION ENCOUNTERED.
 - SUBMITTALS: SUBMIT TO THE ARCHITECT FOR APPROVAL BEFORE BEGINNING CONSTRUCTION THE FOLLOWING:
 - DATA SHEETS ON ALL ITEMS LISTED ABOVE.
 - SCALED LAYOUT OF ELECTRICAL SPACES BASED ON THE ELECTRICAL EQUIPMENT BEING INSTALLED.
 - OCCUPANCY SENSOR LAYOUT BY SYSTEM MANUFACTURER SHOWING SENSOR LOCATIONS, MODEL NUMBERS, INSTALLATION WIRING DIAGRAMS AND DETAILS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE ALL HVAC CONNECTION REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. HVAC UNITS SELECTED BY CONTRACTOR MAY DIFFER SLIGHTLY FROM THOSE IN THE BASIS OF DESIGN. ANY DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.



SUSTAINABLE DESIGN CONSULTANTS
11 DIAMOND CAUSEWAY SUITE #7
SAVANNAH, GA. 31406
PH: 912-677-7716

ADDITION TO EXISTING OFFICE BUILDING
7224 HIGHWAY 21
PORT WENTWORTH, GEORGIA
ELECTRICAL LEGEND

REVISION	DATE
JOB NO.	20240925
DATE	10/21/2024
DESIGN	WRL
REVIEW	WRL

E-0



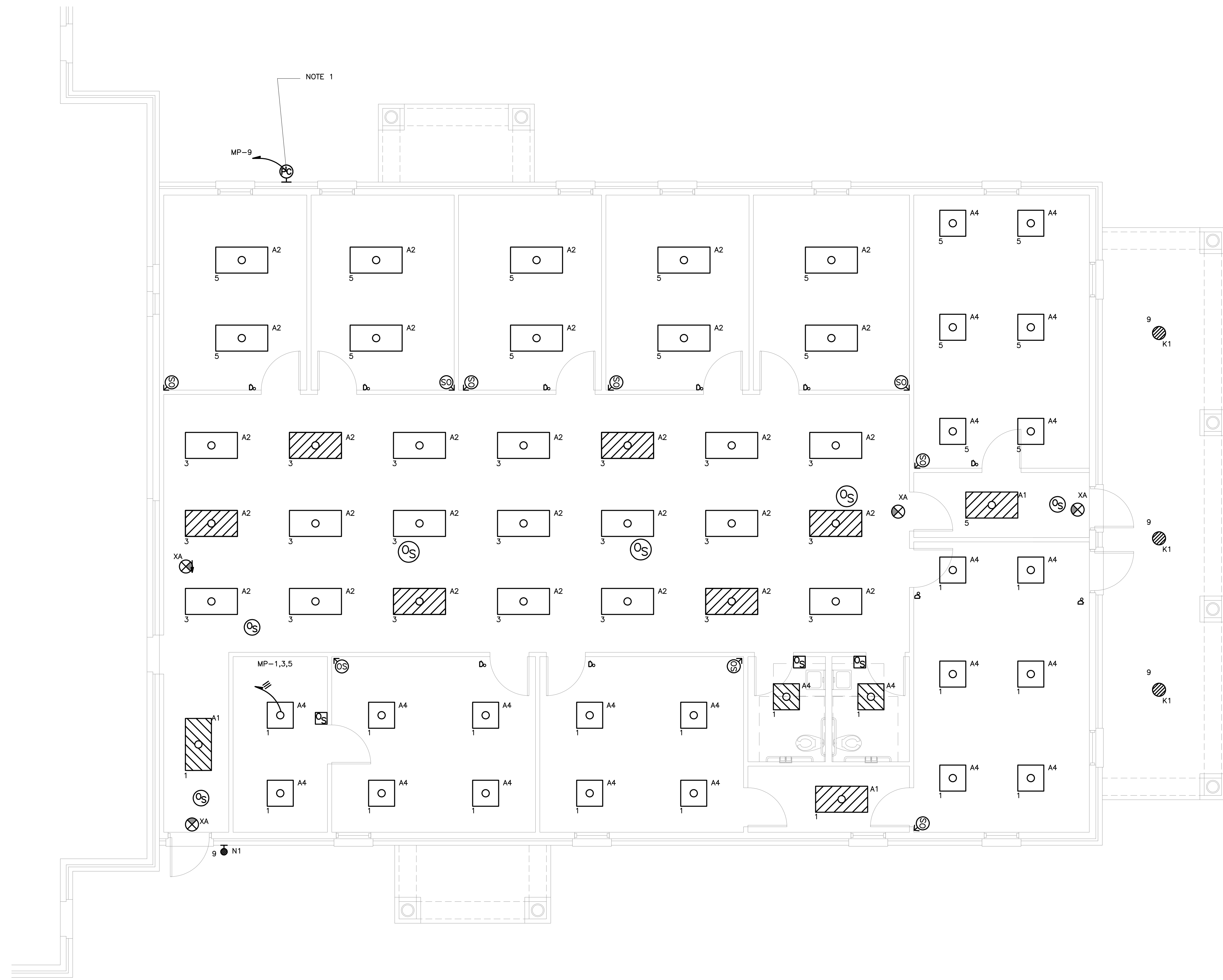
SUSTAINABLE DESIGN
CONSULTANTS
1 DIAMOND CAUSEWAY
SUITE #7
SAVANNAH, GA. 31406
PH: 912-677-7716

ADDITION TO EXISTING OFFICE BUILDING
7224 HIGHWAY 21
PORT WENTWORTH, GEORGIA
FIRST FLOOR LIGHTING PLAN

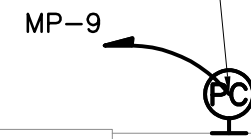
REVISION	DATE

JOB NO.	20240925
DATE	10/21/2024
DESIGN	WRL
REVIEW	WRL

E-1

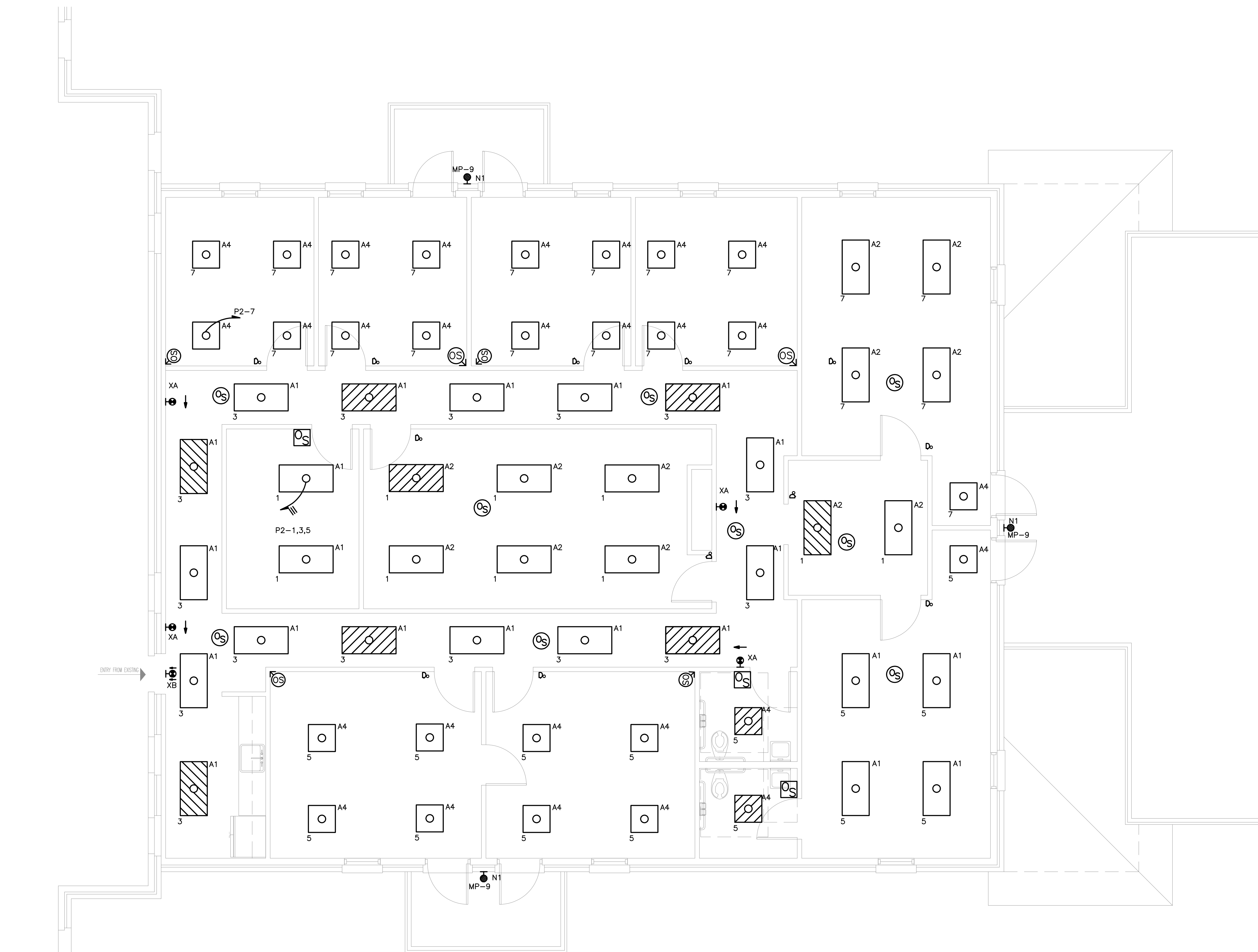


NOTE 1

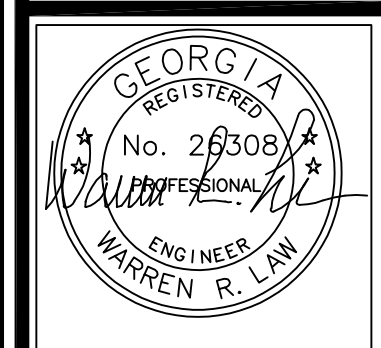


1 FIRST FLOOR LIGHTING PLAN
E-1 SCALE: 1/4" = 1' - 0"

NOTES:
1. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING, UNDER EAVE, AND AWAY FROM ARTIFICIAL SOURCES OF LIGHT. SWITCH SHALL CONTROL ALL EXTERIOR LIGHTING PHOTO-ON/PHOTO-OFF.



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



SUSTAINABLE DESIGN
 CONSULTANTS
 1 DIAMOND CAUSEWAY
 SUITE #7
 SAVANNAH, GA. 31406
 PH: 912-677-7716

ADDITION TO EXISTING OFFICE BUILDING
 7224 HIGHWAY 21
 PORT WENTWORTH, GEORGIA
 SECOND FLOOR LIGHTING PLAN

REVISION	DATE

JOB NO.	20240925
DATE	10/21/2024
DESIGN	WRL
REVIEW	WRL



1 FIRST FLOOR POWER PLAN
E-3 SCALE: 1/4" = 1' - 0"

NOTES:

1. PROVIDE FIRE ALARM NOTIFICATION AND SIGNALING DEVICES IN ACCORDANCE WITH NFPA 72 AND INTERNATIONAL BUILDING CODE. PROVIDE MODIFICATIONS NECESSARY TO THE EXISTING SYSTEM TO ADD NEW DEVICES IN BUILDING ADDITION. SYSTEM DEVICES, CABLING AND INSTALLATION SHALL BE PERFORMED BY THE LOCAL FIRE ALARM VENDOR CURRENTLY HOLDING THE SERVICE AGREEMENT WITH THE OWNER. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ALL DOCUMENTS REQUIRED TO THE AUTHORITY HAVING JURISDICTION IN ORDER TO OBTAIN A PERMIT.

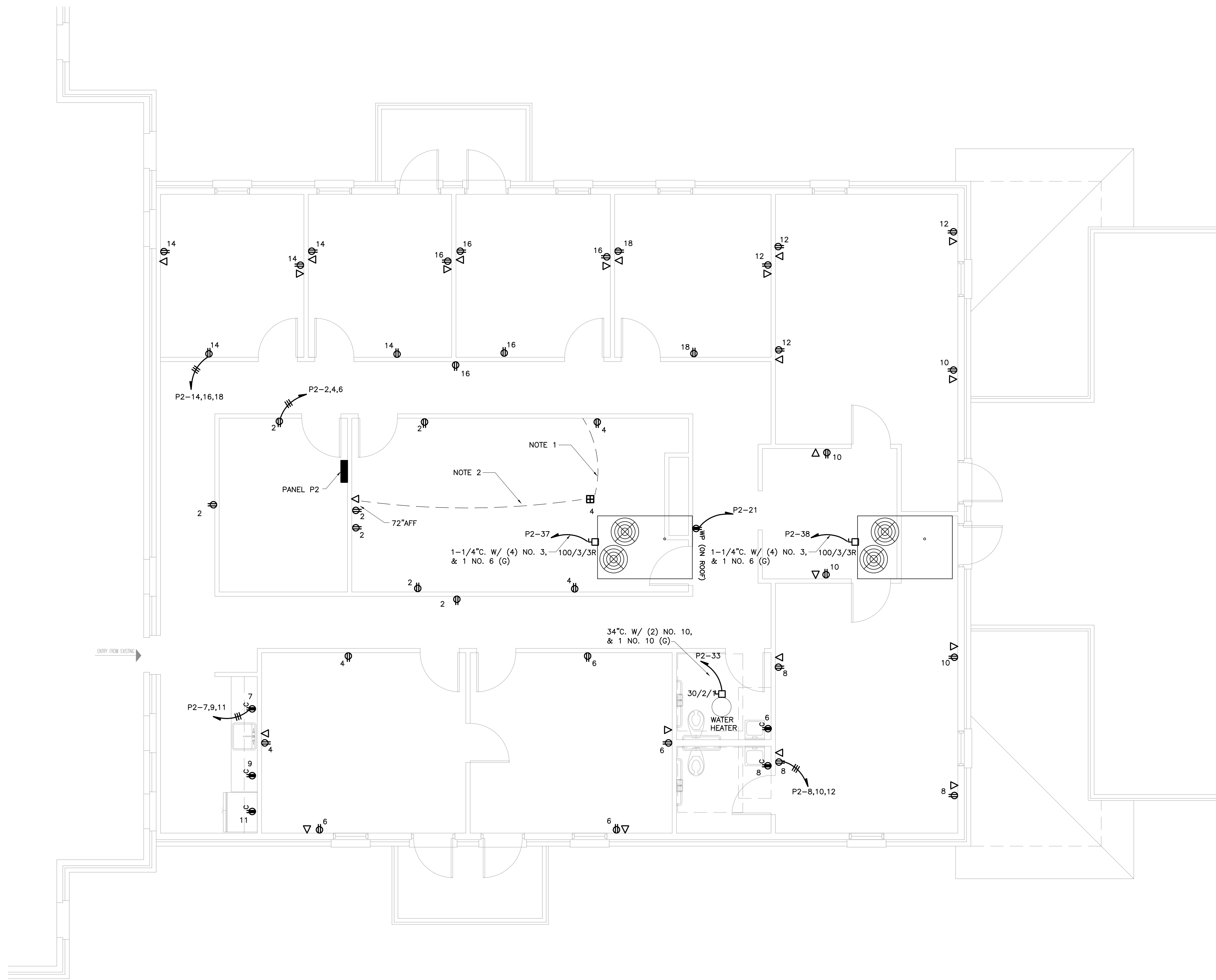


SUSTAINABLE DESIGN
CONSULTANTS
1 DIAMOND CAUSEWAY
SUITE #7
SAVANNAH, GA. 31406
PH: 912-677-7716

ADDITION TO EXISTING OFFICE BUILDING
7224 HIGHWAY 21
PORT WENTWORTH, GEORGIA
FIRST FLOOR POWER PLAN

REVISION	DATE

JOB NO.	20240925
DATE	10/21/2024
DESIGN	WRL
REVIEW	WRL



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

- NOTES:
1. IN ADDITION TO CIRCUIT SHOWN, PROVIDE 1-1/4" W/ PULL STRING FROM FLOORBOX, UP WALL AND INTO ACCESSIBLE CEILING SPACE FOR NETWORK CABLING.
 2. EXTEND 1-1/4" W/ PULLSTRING FROM FLOOR BOX AND UP WALL INTO BOTTOM OF TELECOMMUNICATIONS BOX FOR A/V CABLING.



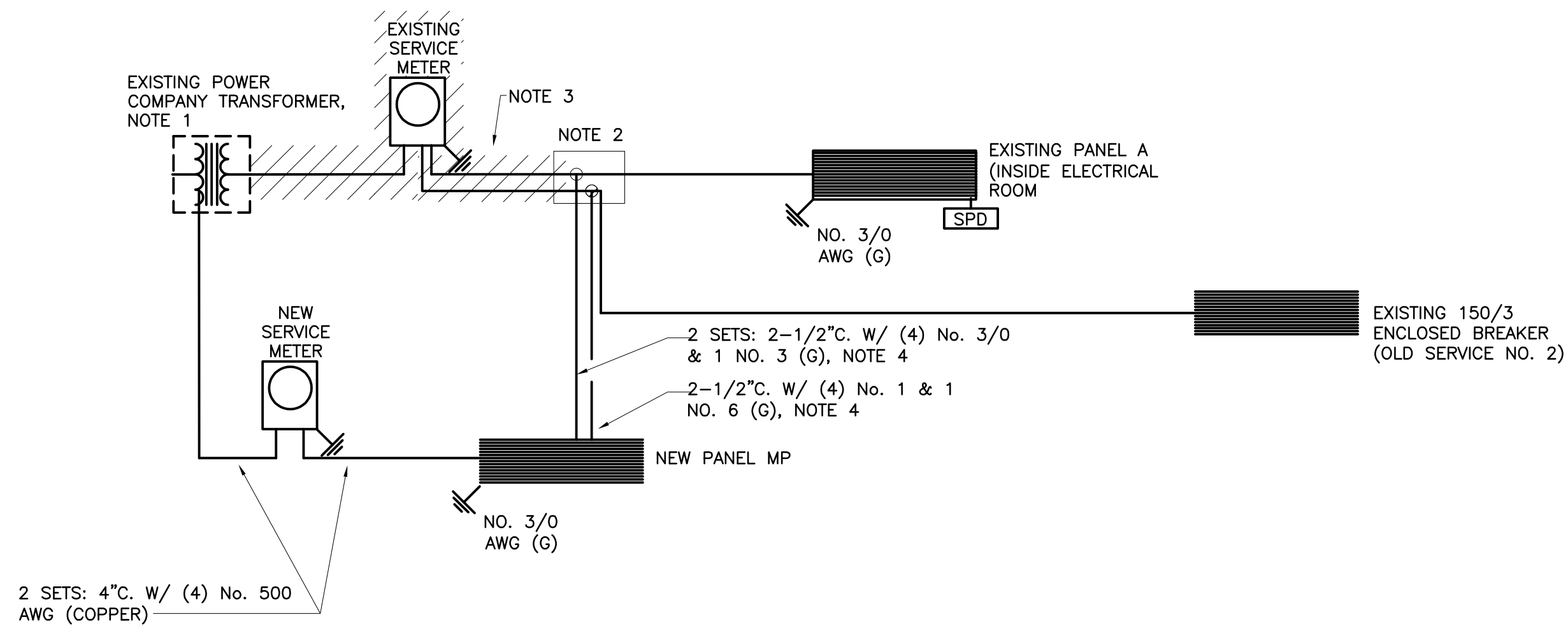
SUSTAINABLE DESIGN CONSULTANTS
 1 DIAMOND CAUSEWAY
 SUITE #7
 SAVANNAH, GA. 31406
 PH: 912-677-7716

ADDITION TO EXISTING OFFICE BUILDING
 7224 HIGHWAY 21
 PORT WENTWORTH, GEORGIA
 SECOND FLOOR POWER PLAN

REVISION	DATE

JOB NO.	20240925
DATE	10/21/2024
DESIGN	WRL
REVIEW	WRL

E-4



LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER/SERIES	REFLECTOR/DIFFUSER	FINISH	MOUNTING	LUMENS	NOTES
A1	2'x4' LED VOLUMETRIC TROFFER	METALUX CZ SERIES OR SIMILAR	ACRYLIC	WHITE	RECESSED CEILING	5000	
A4	2'x2' LED VOLUMETRIC TROFFER	METALUX CZ SERIES OR SIMILAR	ACRYLIC	WHITE	RECESSED CEILING	4000	
K1	4" LED DOWNLIGHT	GREEN CREATIVE SPECFIT SERIES	CLEAR LENS	WHITE	RECESSED CEILING	2000	WET LOCATION W/ INTEGRAL BATTERY
N1	LED CYLINDER UP/DOWN	CANDELA RWC-D1-G2		BLACK	WALL/SURFACE	2000	WET LOCATION RATED, INTEGRAL BATTERY, NOTE 1
XA	LED EXIT SIGN	EVENLITE TLX SERIES		WHITE	UNIVERSAL	LED	

NOTES:

- COORDINATE SERVICE INSTALLATION REQUIREMENTS AND PHASING WITH LOCAL POWER COMPANY PRIOR TO INSTALLATION. SEE CIVIL PLANS FOR LOCATION OF TRANSFORMER. COORDINATE OUTAGE SCHEDULE WITH OWNER'S REPRESENTATIVE NO LESS THAN 30 DAYS PRIOR TO WORK COMMENCEMENT.
- AT GRADE BELOW EXISTING METER, PROVIDE NEW WEATHERPROOF PULL/SPLICE TROUGH TO RE-WORK SERVICE TO EXISTING PANELS A & B FROM NEW PANEL MP. SIZE TROUGH PER NEC FOR CONDUCTORS SHOWN, PLUS SPICES.
- AFTER INSTALLATION OF NEW FEEDER TO SERVE PANELS A & B, REMOVE EXISTING SERVICES AND METER BACK TO EXISTING TRANSFORMER.
- CONTRACTOR SHALL FIELD VERIFY CONDUCTOR SIZE AND ROUTING OF FEEDERS TO PANELS A & B PRIOR TO ROUGH-IN AND OUTAGE. AS-BUILTS APPEAR TO BE DIFFERENT FROM FIELD CONDITIONS.
- ALL CONDUCTORS SHALL BE COPPER.

LIGHTING FIXTURE SCHEDULE NOTES:

- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT'S ELEVATION DETAILS PRIOR TO ROUGH-IN.
- SEE ARCHITECT RAIL DETAIL FOR MOUNTING OF COLOR STRIP. PROVIDE DIMMER/CONTROLLER AND ASSOCIATED CABLING.

1 ELECTRICAL ONE-LINE DIAGRAM
E-5 SCALE: NOT TO SCALE

PANELBOARD SCHEDULE MP										
MAINS :		600A MB W/ SHUNT TRIP			MTG :		SURFACE			
VOLTAGE :		208Y/120			A.I.C. :		65,000			
NO.	TRIP/POLE	BRANCH CIRCUIT	PHASE LOAD (V-A)			BRANCH CIRCUIT	DEVICE			
			V-A	A	B	C	V-A	DESIGNATION	POLE/TRIP/NO.	
1	20	1	LIGHTING	1,000	2,440		1,440	RECEPTACLES	1 20 2	
3	20	1	LIGHTING	1,600		3,040	1,440	RECEPTACLES	1 20 4	
5	20	1	LIGHTING	1,400			2,300	900	RECEPTACLES	1 20 6
7	20	1	RECEPTACLES	1,440	2,880		1,440	RECEPTACLES	1 20 8	
9	20	1	RECEPTACLES	1,440		2,880	1,440	RECEPTACLES	1 20 10	
11	20	1	RECEPTACLES	1,440		2,700	1,260	RECEPTACLES	1 20 12	
13	20	1	SPARE					SPARE	1 20 14	
15	20	1	SPARE					SPARE	1 20 16	
17	20	1	SPARE					SPARE	1 20 18	
19	20	1	SPARE					SPARE	1 20 20	
21	20	1	SPARE					SPARE	1 20 22	
23	20	1	SPARE					SPARE	1 20 24	
25	20	1	SPARE					SPARE	1 20 26	
27	400	3	EXISTING PANEL A (OLD SERVICE NO. 1)			28,260	28,260	PANEL P2	3 225 28	
29						31,110	31,110		30	
31				29,510			29,510		32	
33	150	3	EXISTING ENCLOSED BKR (OLD SERVICE NO. 2)						34	
35									36	
37									38	
39									40	
41									42	
CONNECTED				34,830	34,180	36,110	TTL :	105,120		
DEMAND				27,864	27,344	28,888	TTL :	84,096		

PANELBOARD SCHEDULE P2										
MAINS :		400A MLO			MTG :		SURFACE			
VOLTAGE :		208Y/120			A.I.C. :		65,000			
NO.	TRIP/POLE	BRANCH CIRCUIT	PHASE LOAD (V-A)			BRANCH CIRCUIT	DEVICE			
			V-A	A	B	C	V-A	DESIGNATION	POLE/TRIP/NO.	
1	20	1	LIGHTING	1,000	2,440		1,440	RECEPTACLES	1 20 2	
3	20	1	LIGHTING	1,600		3,040	1,440	RECEPTACLES	1 20 4	
5	20	1	LIGHTING	1,000			2,440	1,440	RECEPTACLES	1 20 6
7	20	1	LIGHTING	1,000	2,440		1,440	RECEPTACLES	1 20 8	
9	20	1	EXTERIOR LIGHTING	500		1,940	1,440	RECEPTACLES	1 20 10	
11	20	1	SPARE				1,440	1,440	RECEPTACLES	1 20 12
13	20	1	SPARE			1,440		1,440	RECEPTACLES	1 20 14
15	20	1	APPLIANCE	1,500		2,940		1,440	RECEPTACLES	1 20 16
17	20	1	APPLIANCE	1,500			2,940	1,440	RECEPTACLES	1 20 18
19	20	1	REFRIGERATOR	1,500	2,940			1,440	RECEPTACLES	1 20 20
21	20	1	ROOF RECEPTACLE	500		1,940		1,440	RECEPTACLES	1 20 22
23	20	1	SPARE				1,440	1,440	RECEPTACLES	1 20 24
25	20	1	SPARE						SPARE	26
27	20	1	SPARE						SPARE	28
29	20	1	SPARE						SPARE	30
31	20	1	SPARE						SPARE	32
33	30	2	WATER HEATER	2,250		2,250				34
35				2,250			2,250			36
37	80	3	RTU-1	9,500	19,000			9,500	RTU-2	3 80 38
39				9,500		19,000		9,500		40
41				9,500			19,000	9,500		42
CONNECTED				28,260	31,110	29,510	TTL :	88,880		
DEMAND				22,608	24,888	23,608	TTL :	71,104		

ADDITION TO EXISTING OFFICE BUILDING
7224 HIGHWAY 21
PORT WENTWORTH, GEORGIA
ELECTRICAL DETAILS

REVISION	DATE

JOB NO. 20240925
DATE 10/21/2024
DESIGN WRL
REVIEW WRL

E-5



SUSTAINABLE DESIGN CONSULTANTS
1 DIAMOND CAUSEWAY
SUITE #7
SAVANNAH, GA. 31406
PH: 912-677-7716