

AB	ANCHOR BOLT	FD	DEGREE FAHRENHEIT	N	NORTH	T	TREAD
AC	ACOUSTICAL	FE	FLOOR DRAIN	N/A	NOT APPLICABLE	T & G	TONGUE & GROOVE
AFF	ABOVE FINISHED FLOOR	FEC	FIRE EXTINGUISHER	NIC	NOT IN CONTRACT	TBD	TO BE DETERMINED
A/C	AIR CONDITIONING	FF	FIRE EXTINGUISHER CABINET	NO	NUMBER	TBR	TO BE REMOVED
ACT	ACOUSTICAL CEILING TILE	FFI	FINISH FLOOR	NOM	NOMINAL	TEL	TELEPHONE
ADD	ADDITION	FFN	FINISH FLOOR ELEVATION	NTS	NOT TO SCALE	TEMP	TEMPERED, TEMPORARY, TEMPERATURE
ADJ	ADJACENT, ADJUSTABLE	FIN	FINISH			TERR	TERRAZZO
AHU	AIR HANDLING UNIT	FIX	FIXTURE	OC	ON CENTER	THK	THICK(NESS)
ALUM (N)	ALUMINUM	FL (R)	FLOOR (ING)	OD	OUTSIDE DIAMETER	THR (ESH)	THRESHOLD
ANOD	ANODIZED	FLASH	FLASHING	OH	OVERHEAD	TOS	TOP OF STEEL
APPROX	APPROXIMATE(LY)	FLUOR	FLUORESCENT	OPG	OPENING	TOW	TOP OF WALL
ARCH	ARCHITECT(URAL)	FNDN	FOUNDATION	OPP	OPPOSITE	TS	TRANSITION STRIP
		FIRE	FIRE RETARDANT TREATED	ORIG	ORIGINAL	TYP	TYPICAL
BRG	BEARING	FTG	FOOTING	OZ	OUNCE		
BD	BOARD	FT	FOOT, FEET			UC	UNDER CUT
BLDG	BUILDING	FUR	FURRING	PART	PARTITION	UH	UNIT HEATER
BLK (G)	BLOCK (ING)			PBD	PARTICLE BOARD	UL	UNDERWRITER'S LABORATORY
BOT/BTM	BOTTOM	GA	GAUGE	PCT	PORCELAIN CERAMIC TILE	UNF	UNFINISHED
		GALV	GALVANIZED	PERF	PERFORATED	UNO	UNLESS NOTED OTHERWISE
CAB	CABINET	GB	GRAB BAR	PF	PREFINISHED		
CAP	CAPACITY	GC	GENERAL CONTRACTOR	PLAM	PLASTIC LAMINATE	VAR	VARNISH
CAT	CATALOG	GD	GRADE, GRADING	PLUMB	PLUMBING	VB	VINYL BASE
CD	CEILING DIFFUSER	GL	GLASS, GLAZING	PLYWD	PLYWOOD	VCT	VINYL COMPOSITION TILE
CEM	CEMENT	GND	GROUND	PAIR	PAIR	VENT	VENTILATION / VENTILATOR
CER	CERAMIC	GPM	GALLONS PER MINUTE	PREFAB	PREFABRICATED	VERT	VERTICAL(LY)
CFM	CUBIC FEET PER MINUTE	GWB, GYP BD	GYPSUM WALL BOARD	PREP	PREPARE	VEST	VESTIBULE
CG	CORNER GUARD			PSF	POUNDS PER SQUARE FOOT	VIF	VERIFY IN FIELD
CJ	CONTROL JOINT	HDW	HUB DRAIN	PSI	POUNDS PER SQUARE INCH	VIN	VINYL
CKT	CIRCUIT	HDWR	HARDWARE	PT	PAINT(ED), PRESSURE TREATED	VWC	VINYL WALL COVERING
CL	CENTER LINE	HDWD	HARDWOOD	PLNTD	PLANTED		
CLG	CEILING	HGT	HEIGHT	PL	PLATE / PROPERTY LINE	W	WEST
CLR	CLEAR	HM	HOLLOW METAL	PLAS	PLASTER	W/	WITH
CMU	CONCRETE MASONRY UNIT	HORIZ	HORIZONTAL (LY)	PVC	POLY VINYL CHLORIDE	W/O	WITHOUT
CO	CLEANOUT	HP	HORSEPOWER			WC	WATER CLOSET, WATER COOLER
COL	COLUMN	HR	HOUR	QTY	QUANTITY	WD	WOOD
CONC	CONCRETE	HV(AC)	HEATING/VENTILATING/ (AIR CONDITIONING)	R	RADIUS, RISER, R-VALUE	WG	WALL GUARD
CONN	CONNECTION			RA	RETURN AIR	WT	WEIGHT
CONT	CONTINUOUS	HW	HOT WATER	RBR	RUBBER	WWF	WELDED WIRE FABRIC
COORD	COORDINATE, COORDINATED			RC	REFRIGERATION CONTRACTOR		
CORR	CORRIDOR	ID	INSIDE DIAMETER	RCP	REFLECTED CEILING PLAN		
CPT	CARPET	IN	INCHES	RD	ROOF DRAIN		
CT	CERAMIC TILE	INCAN	INCANDESCENT	RE	REFERENCE, REFLECT TO		
		INSUL	INSULATED, INSULATION	REC	RECESSED		
DBL	DOUBLE	INT	INTERIOR	REFL	REFLECTED (IVE)		
DEMO	DEMOLITION	INV	INVERT	REINF	REINFORCE (ED) (ING)		
DES	DESIGNATION			REQ'D	REQUIRED		
DET	DETAIL	JAN	JANITOR	REQMT	REQUIREMENT		
DF	DRINKING FOUNTAIN	J-BOX	JUNCTION BOX	RES	RESILIENT		
DIA	DIAMETER	JST	JOIST	RET	RETURN		
OR Ø		JOINT	JOINT				
DIM	DIMENSION			REV	REVISION, REVISED		
DISP	DISPENSER	K.D.	KNOCK DOWN	RF	RADIO FREQUENCY		
DN	DOWN	KIT	KITCHEN	RM	ROOM		
DO	DITTO (DO OVER)	K.P.	KICK PLATE	R.O.	ROUGH OPENING		
DR	DOOR	KWH	KILOWATT HOUR				
DS	DOWNSPOUT			S	SOUTH		
DWG	DRAWING	LAM	LAMINATE	SAPC	SUSPENDED-ACOUSTICAL-		
		LAV	LAVATORY		PANEL-CEILING		
E	EAST	LB (S)	POUND (S)	SCHED	SCHEDULE (D)		
EA	EACH	LL	LANDLORD	SCHWD	SOLID CORE WOOD		
EC	ELECTRICAL CONTRACTOR			SECT	SECTION		
EF	EACH FACE/ EPOXY FLOOR	MAS	MASONRY	SGFT	STRUCTURAL GLAZED FACING TILE		
EJ	EXPANSION JOINT	MATL	MATERIAL	SHT	SHEET		
EL	REFERENCE ELEVATION	MAX	MAXIMUM	SIM	SIMILAR		
ELEC (T)	ELECTRIC(AL)	MOD	MODIFIED DENSITY FIBERBOARD	SPEC	SPECIFICATION(S)		
ELEV	ELEVATION, ELEVATOR	MEZ	MEZZANINE	SQ	SQUARE		
ENG	ENGINEERING(ING)	MECH	MECHANICAL	SS	STAINLESS STEEL		
ENLG	ENLARGED	MTL	METAL	ST	STAIN(ED)		
EPS	EXTRUDED POLYSTYRENE	MFR	MANUFACTURER	STD	STANDARD		
EQ	EQUAL	MIN	MINIMUM	STL	STEEL		
EQUIP	EQUIPMENT						

SECTION NO., (TYP.)

SECTION CUT

SHT. WHERE SECTION IS DRAWN, (TYP.)

DETAIL NO., (TYP.)

DETAIL CUT

SHT. WHERE DETAIL IS DRAWN, (TYP.)

DETAIL NO., (TYP.)

DETAIL

SHT. WHERE DETAIL IS DRAWN, (TYP.)

ELEVATION NO., (TYP.)

INTERIOR ELEV.

SHT. WHERE ELEVATION IS DRAWN, (TYP.)

ELEVATION NO., (TYP.)

EXTERIOR ELEV.

SHT. WHERE ELEVATION IS DRAWN, (TYP.)

SECTION NO., (TYP.)

BUILDING SECTION

SHT. WHERE SECTION IS DRAWN, (TYP.)

DOOR NUMBER

Room
xxx

ROOM NUMBER

x

KEY NOTE

xx

WINDOW/GLASS NUMBER

x-x'

CEILING HEIGHT

xx

REVISION TAG

x

MISCELLANEOUS TAG

xxxx

FINISH TAG

x-x'

SLAB ELEVATION

xx
xx

SPOT ELEVATION

--- --

CENTER LINE

--- --

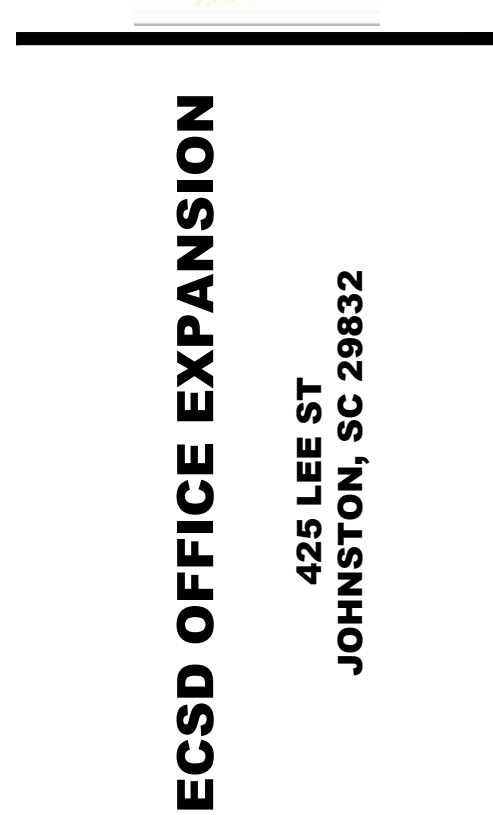
CONTROL JOINT

MATERIAL
COLOR
FINISH
SYSTEM

INTERIOR WALL FINISH TAG

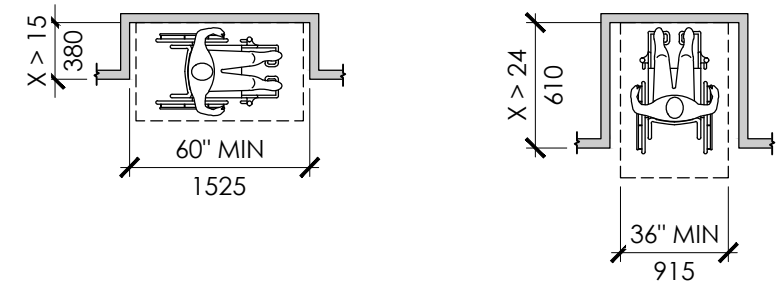
	WOOD BLOCKING (CONTINUOUS)		BRICK
	WOOD BLOCKING (NON-CONTINUOUS)		CONCRETE MASON
	PLYWOOD		CONCRETE
	FINISH WOOD		GRADE/EARTH
	PARTICLE BOARD		GRAVEL
	RIGID INSULATION		STEEL
	BATT INSULATION OR SOUND ATTENUATION BLANKETS		EXPANDING FOAM INSULATION
	TILE		FIRE WALL

1. ALL CONSTRUCTION SHALL CONFORM TO THE CODES LISTED ON G1.0:
 - A. THE CODES, RULES, AND REGULATIONS OF THE STATE IN WHICH THE WORK IS BEING PERFORMED.
 - B. NFPA REQUIREMENTS AS WELL AS TO STANDARDS OF UNDERWRITERS LABORATORIES INC., AND LOCAL UTILITY CO.
 - C. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AS REQUIRED TO PROVIDE THE NEW CONSTRUCTION.
2. WHEN COMPARING THE DRAWINGS AND SPECIFICATIONS; THE DRAWINGS GOVERN SPECIFICATIONS FOR QUANTITY AND LOCATION, AND SPECIFICATIONS GOVERN DRAWINGS FOR QUALITY AND PERFORMANCE. IN THE EVENT OF AMBIGUITY IN QUANTITY OR QUALITY, THE GREATER QUANTITY AND SUPERIOR QUALITY SHALL GOVERN.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COORDINATION AS REQUIRED INCLUDING COORDINATION WITH ANY WORK PROVIDED BY OWNER AND BY OTHERS.
 - A. REFER TO HVAC, PLUMBING, & ELECTRICAL DRAWINGS FOR WORK PERFORMED BY THOSE TRADES.
4. THE OWNER SHALL DESIGNATE STAGING AND STORAGE AREAS OF THE SITE FOR USE BY CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE OF RUBBISH MATERIALS, CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIALS.
5. UNDISTURBED AREAS OF THE SITE TO REMAIN, AND IF DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION (AT NO ADDITIONAL COST TO THE OWNER.)
6. CONTRACTOR SHALL PROVIDE ALL PROTECTION OF THE WORK THROUGHOUT CONSTRUCTION AS REQUIRED AND PER CODE.
7. PROVIDE A SELF-LEVELING CEMENTITIOUS UNDERLAYMENT WHERE PATCHING COMPOUNDS DO NOT MEET MANUFACTURER REQUIREMENTS FOR SUBSTRATE PREPARATION.
8. PAINTING INCLUDES WALLS, SOFFITS, DOOR FRAMES, HOLLOW METAL DOORS, ALL EXPOSED SURFACES, AND ALL SURFACE MOUNTED ITEMS AS REQUIRED TO PROVIDE A FINISHED PRODUCT.
9. CONTRACTOR TO VERIFY LOCATIONS OF ALL WALL MOUNTED ITEMS AND PROVIDE SOLID BLOCKING FOR MOUNTING
10. REFER TO FINISH PLANS & NOTES FOR TYPES AND EXTENT OF FINISHES.



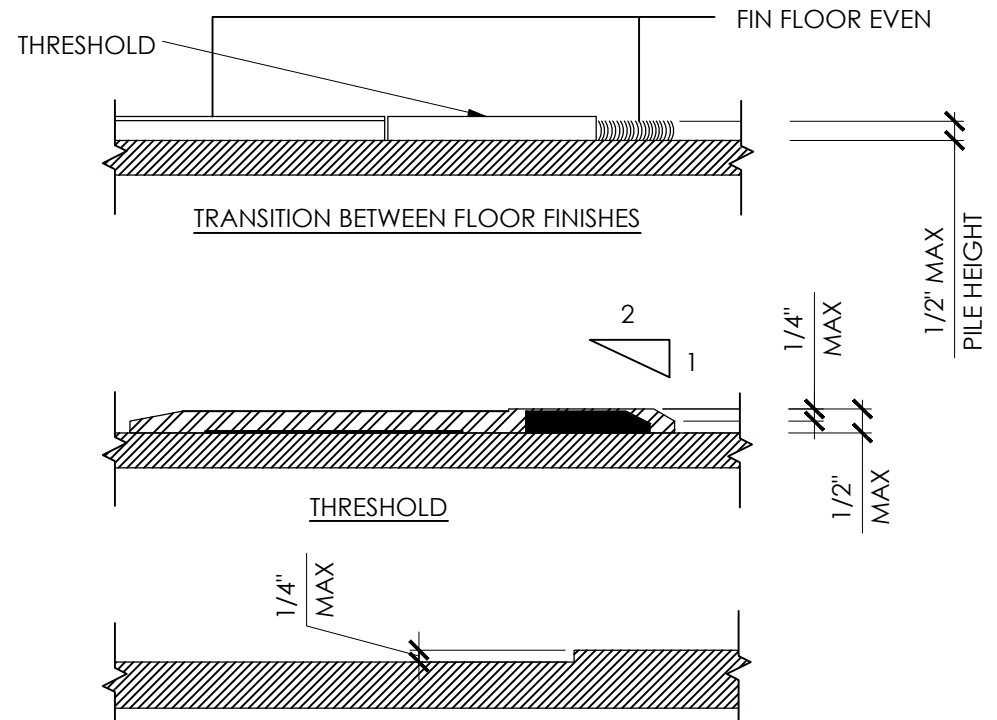
GEN. NOTES & SYMBOLS

THESE DIAGRAMS ARE PROVIDED FOR CONVENIENCE ONLY. REFER TO ICC ANSI A117.1 - 2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.



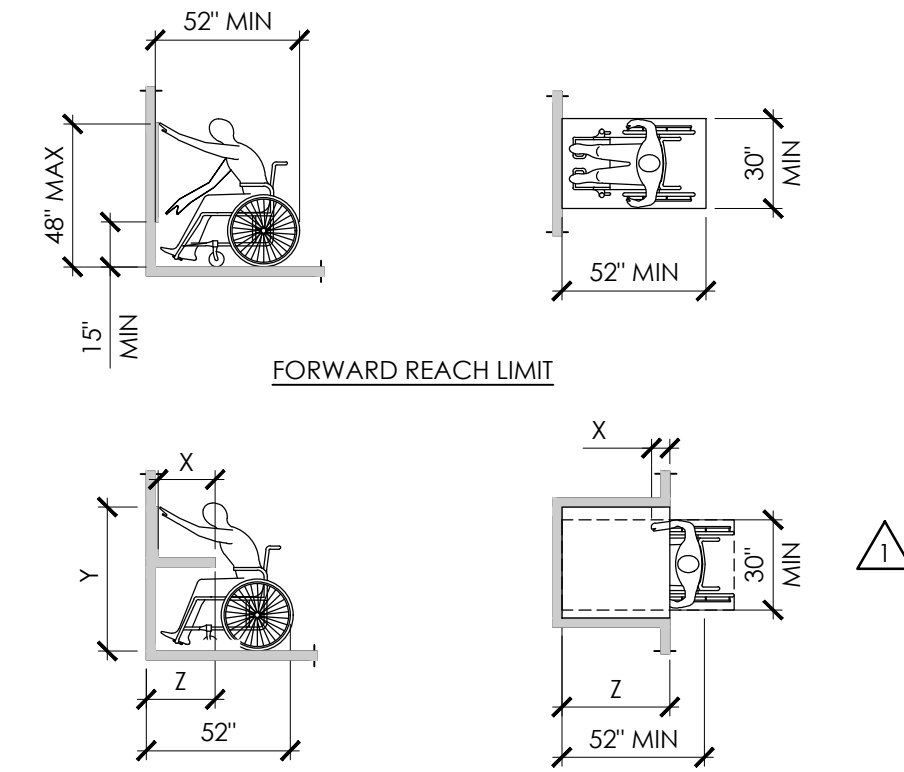
16 MANEUVERING CLEARANCES

ANSI A117.1 #305.7; Fig. 305.7

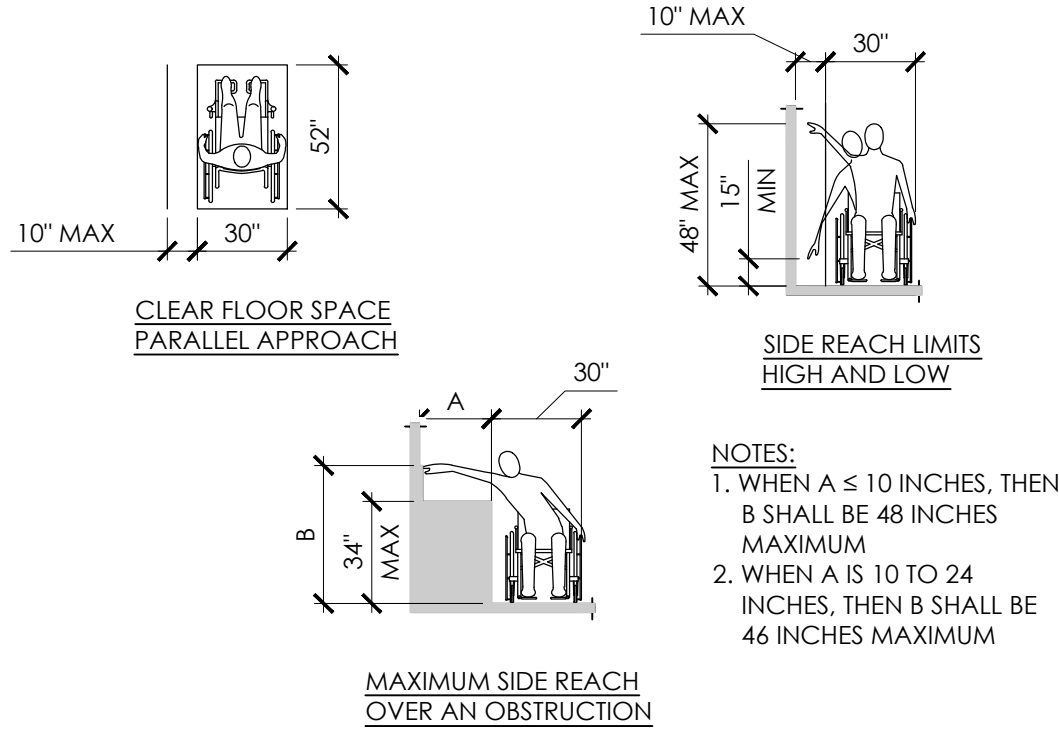


12 THRESHOLD REQUIREMENTS

ANSI A117.1 #404.2.4, 302 & 303

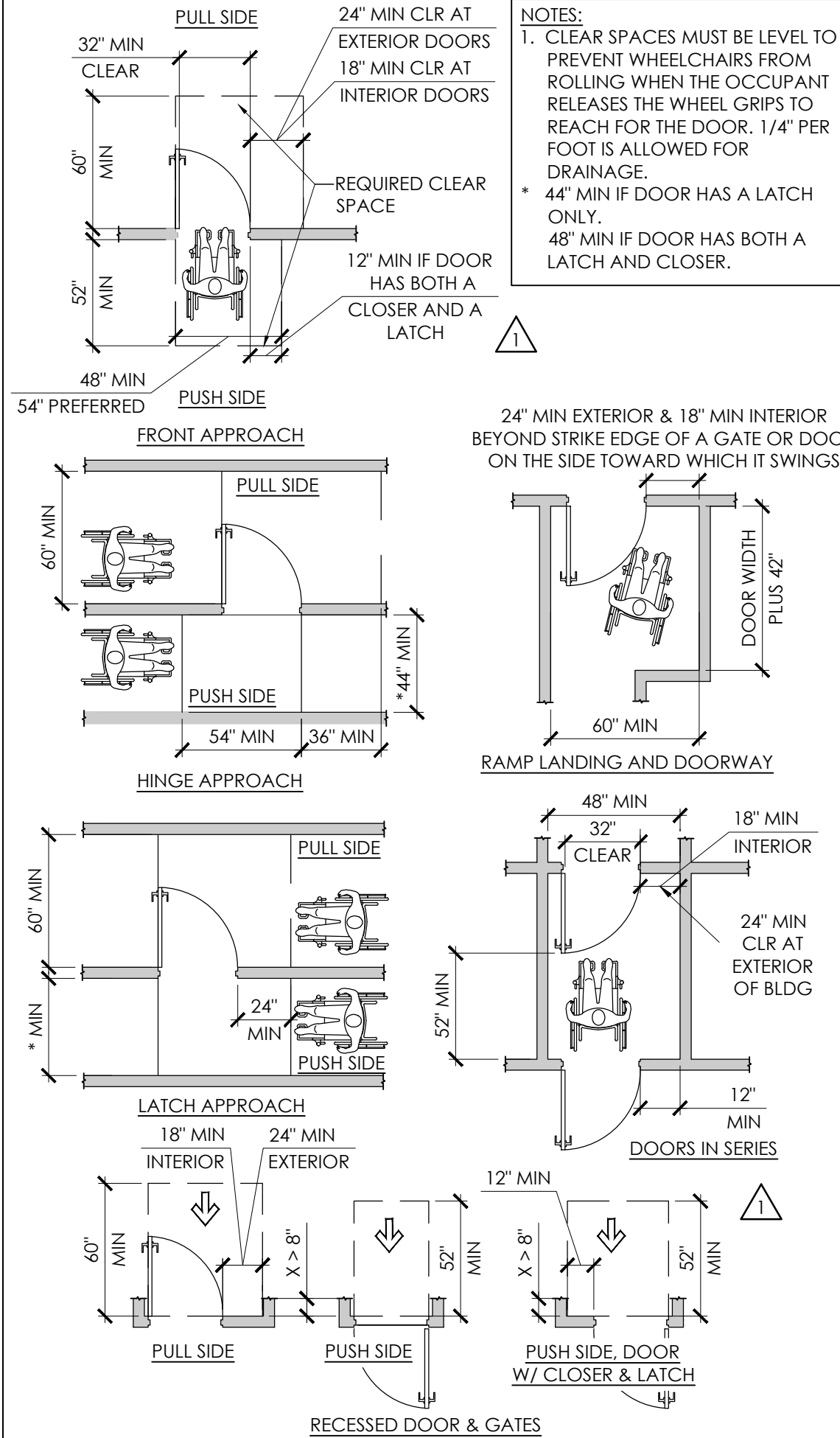


NOTES:
1. X SHALL BE ≤ 25 INCHES; Z SHALL BE ≥ X
2. WHEN X < 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM
3. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM



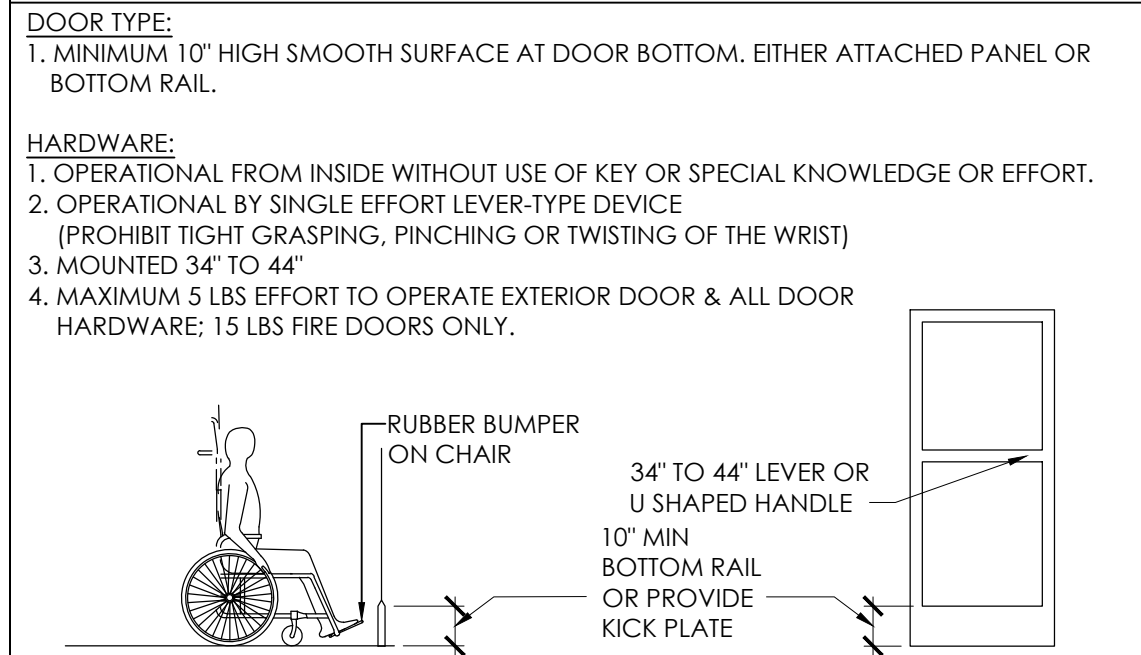
9 REACH RANGES

ANSI A117.1 #308



6 DOOR CLEARANCES

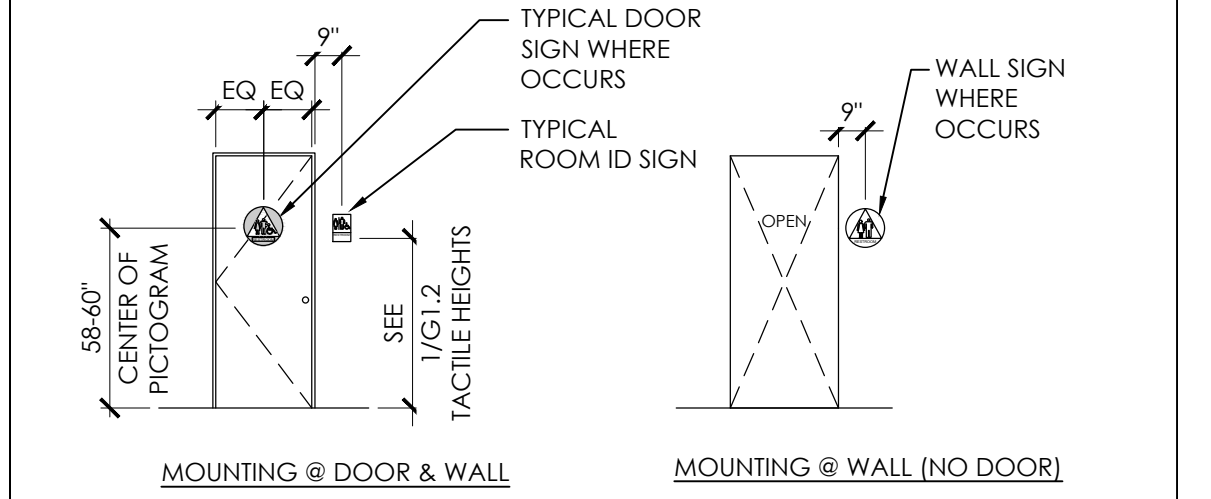
ANSI A117.1 #404.2.3.2; 404.3.4



DOOR TYPE:
1. MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.
HARDWARE:
1. OPERATIONAL FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. OPERATIONAL BY SINGLE EFFORT LEVER-TYPE DEVICE (PROHIBIT TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST)
3. MOUNTED 34" TO 44"
4. MAXIMUM 5 LBS EFFORT TO OPERATE EXTERIOR DOOR & ALL DOOR HARDWARE; 15 LBS FIRE DOORS ONLY.

3 DOOR REQUIREMENTS

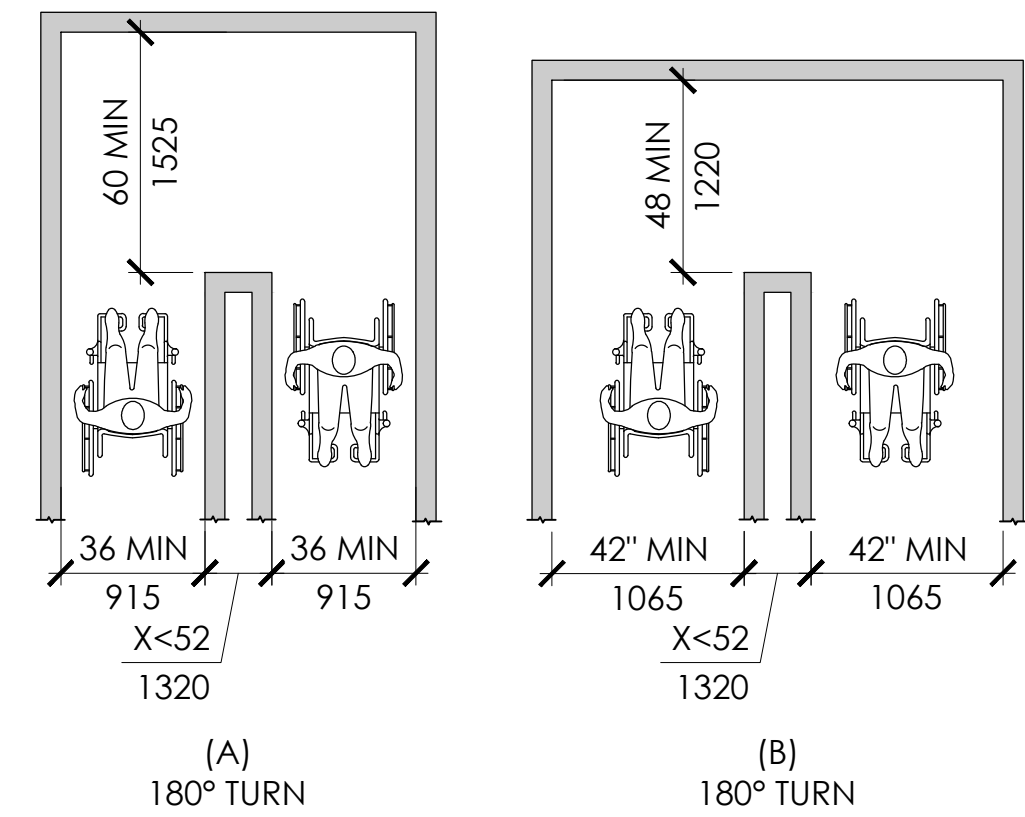
ANSI A117.1 #404.2.6; 404.2.8; 404.3



NOTES:
1. DOOR SIGN: SHALL BE CENTERED ON DOOR & MOUNTED 58-60" ABOVE THE FLOOR (W/ADHESIVE ONLY- CAULK EDGES W/CLEAR SILICONE) @ THE CENTER OF THE SIGN.
2. ROOM SIGN: RAISED & BRAILLED CHARACTERS & PICTORIAL SYMBOL SIGNS (PICTOGRAMS), LETTERS & NUMERALS SHALL BE RAISED 1/32"; UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE, & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" HIGH MIN, 2" HIGH MAX.
3. FINISH CONTRAST: THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
4. CHARACTERS & SIGNS: SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.

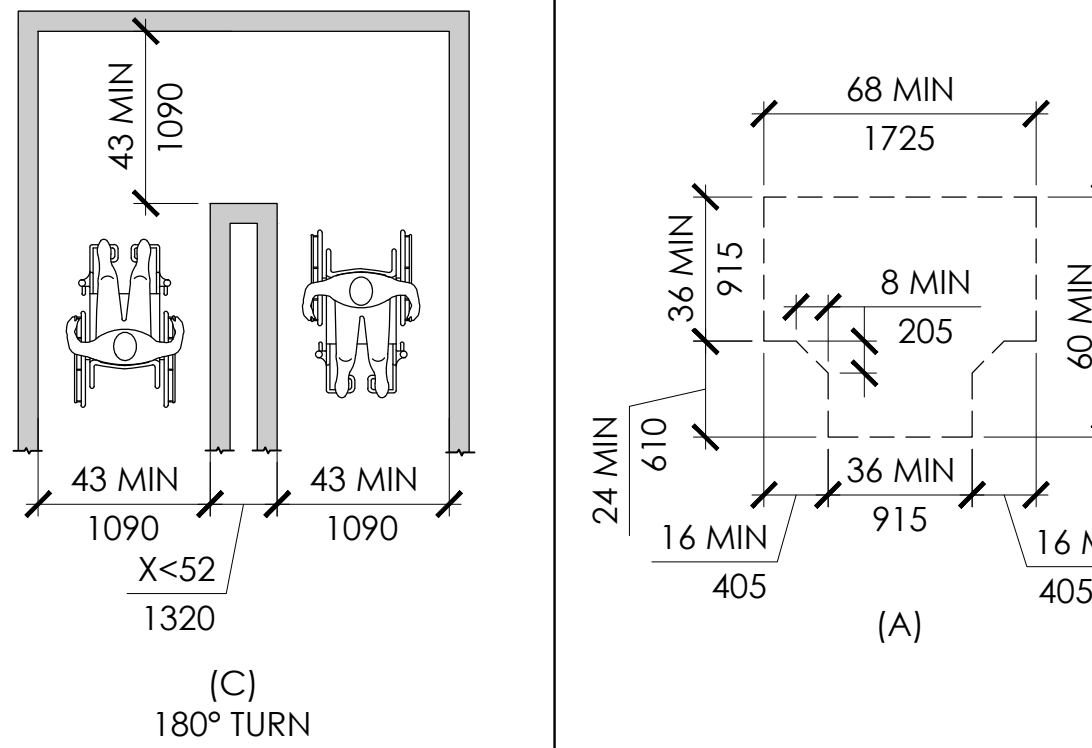
2 SIGNAGE SANITARY FACILITIES

ANSI A117.1 #703



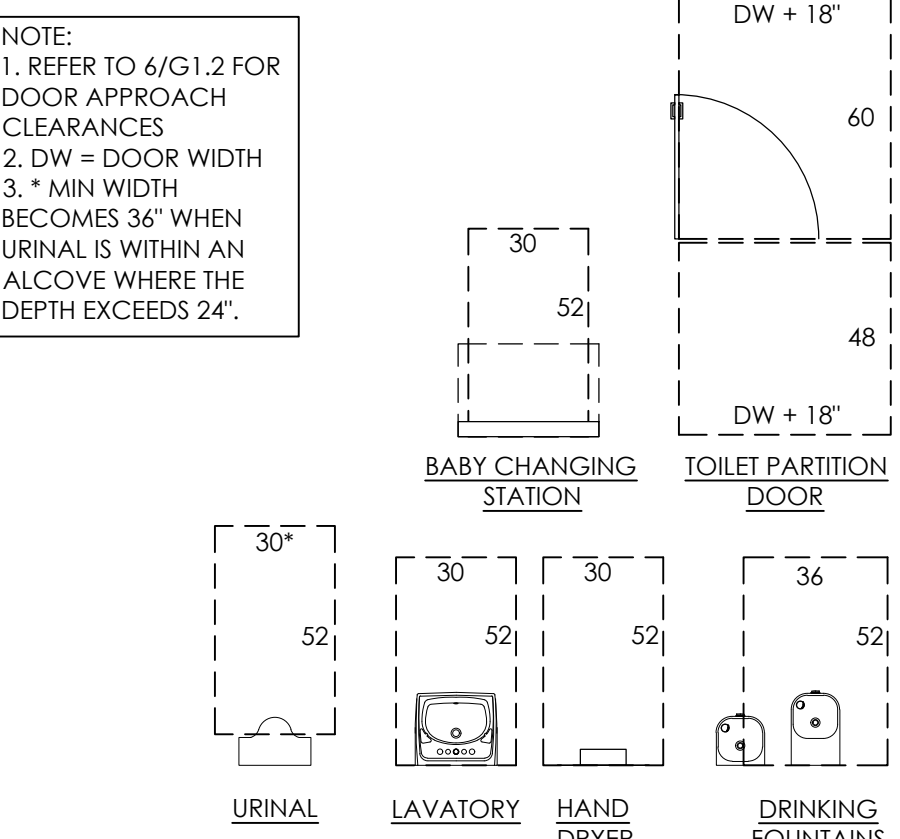
14 TURNING CLEARANCE

ANSI A117.1 #403.5; Fig. 403.5.1



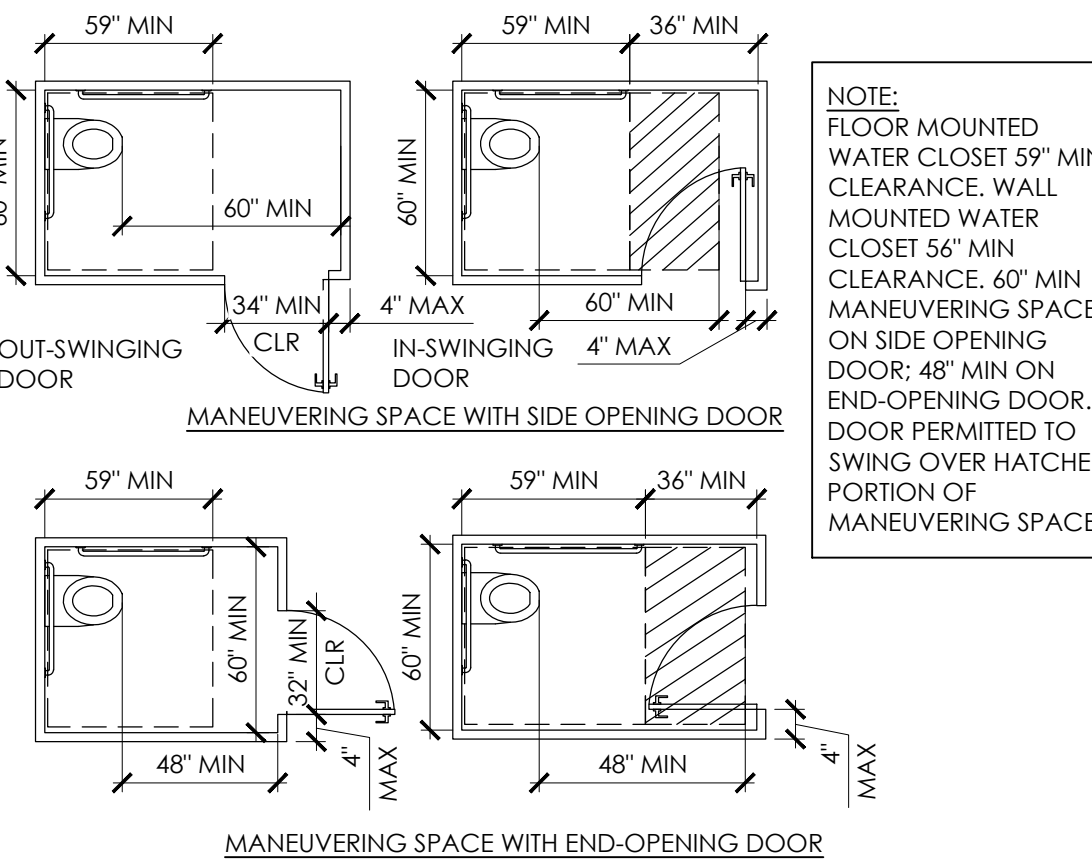
8 T-SHAPED TURNING RADIUS

ANSI A117.1 #304.3



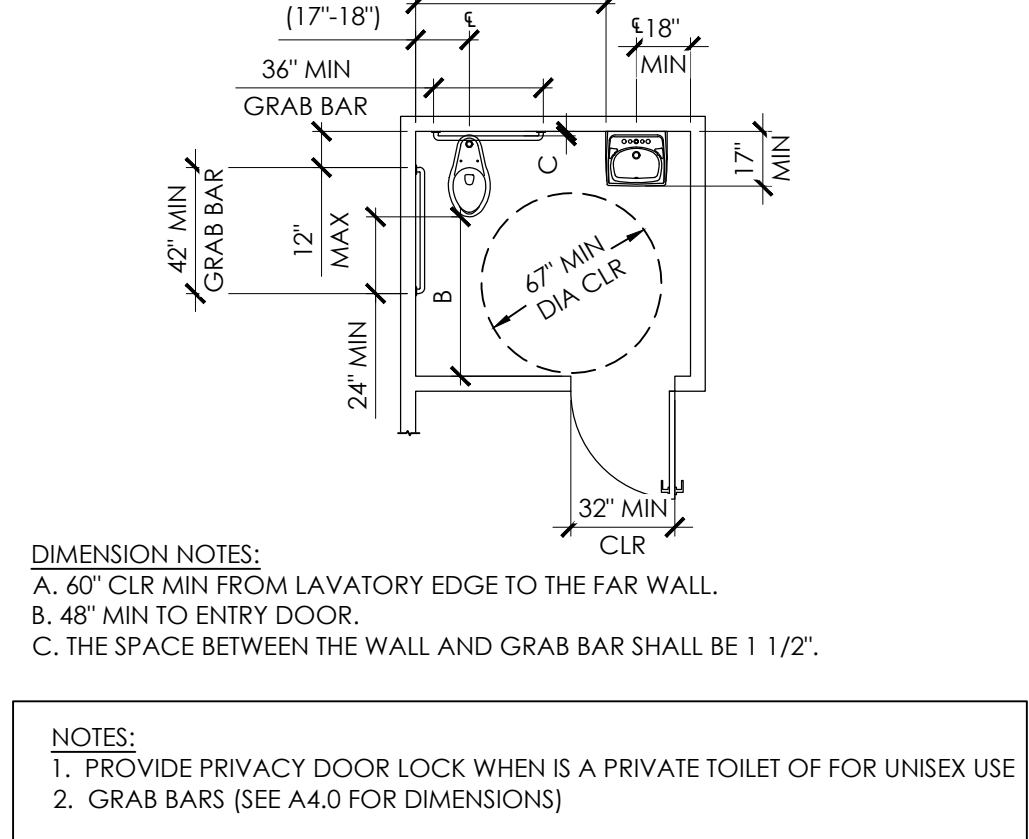
13 FIXTURE CLEAR FLOOR AREA

ANSI A117.1 #305



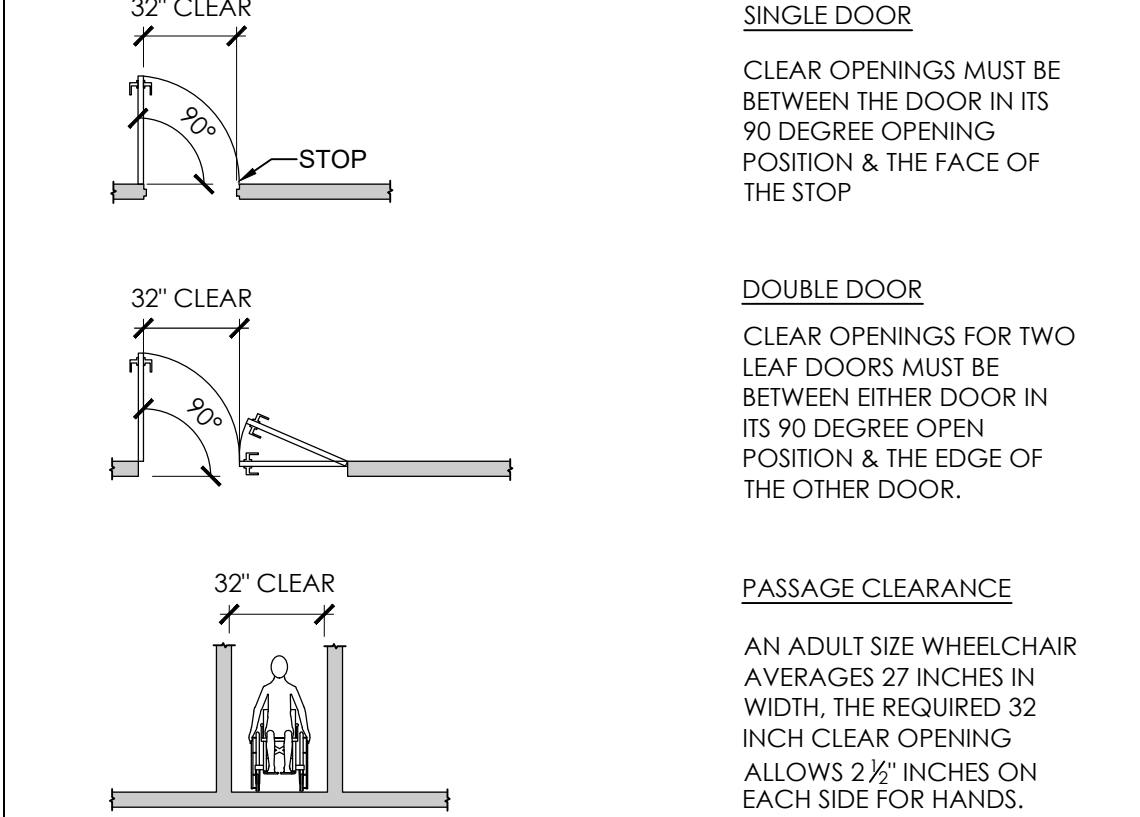
10 MANEUVERING SPACE

ANSI A117.1 #604.9



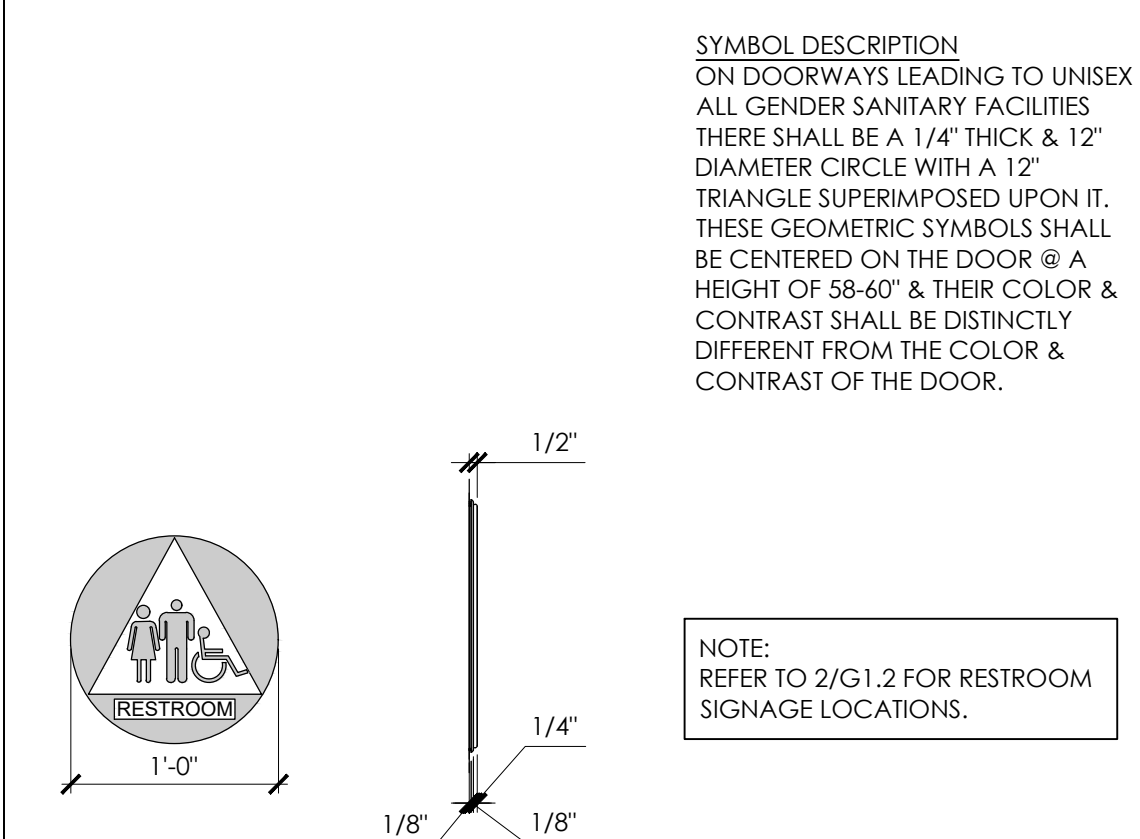
7 SINGLE OCCUPANCY TOILET

ANSI A117.1 #604



5 DOOR WIDTHS

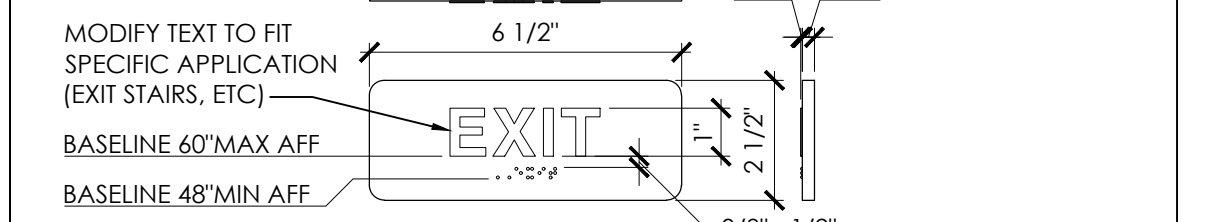
ANSI A117.1 #403.5; 404.2.1 & 404.2.2



4 SIGNAGE - SANITARY FACILITIES

ANSI A117.1 #703

NOTES:
1. MOUNT SIGN SO THAT THE BASELINE OF THE LOWEST TACTILE CHARACTERS ARE LOCATED 48" (MIN.) A.F.F. AND THE BASELINE OF THE HIGHEST TACTILE CHARACTERS ARE LOCATED 60" (MAX.) A.F.F.
2. SIGN SHALL MEET ALL REQUIREMENTS OF THE 2018 SOUTH CAROLINA BUILDING CODE.
3. CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPER CASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPER CASE LETTER "I".
4. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPER CASE "I".
5. STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15% OF THE MAXIMUM HEIGHT OF THE CHARACTER.
6. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
7. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD, WITH EITHER LIGHT PICTOGRAM ON A DARK FIELD OR DARK PICTOGRAM ON A LIGHT FIELD.
8. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
9. RAISED CHARACTERS AND SHALL COMPLY WITH THE FOLLOWING TO THE FOLLOWING:
A. RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND, AND SHALL BE SANS-SERIF UPPER CASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
B. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF AN UPPER CASE "I".
10. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
11. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED BELOW THE PICTOGRAM FIELD.
12. BRAILLE SHALL BE CONTRACTED (GRADE 2). BRAILLE DOTS SHALL BE CIRCULAR OR ROUNDED SHAPE AND COMPLY WITH THE FOLLOWING:
a. DOT BASE DIAMETER SHALL BE 0.059" TO 0.063".
b. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL SHALL BE 0.100"
c. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS SHALL BE 0.300".
d. DOT HEIGHT SHALL BE 0.025" TO 0.037".
e. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW SHALL BE 0.395" TO 0.400".



1 SIGNAGE - EXIT

ANSI A117.1 #703



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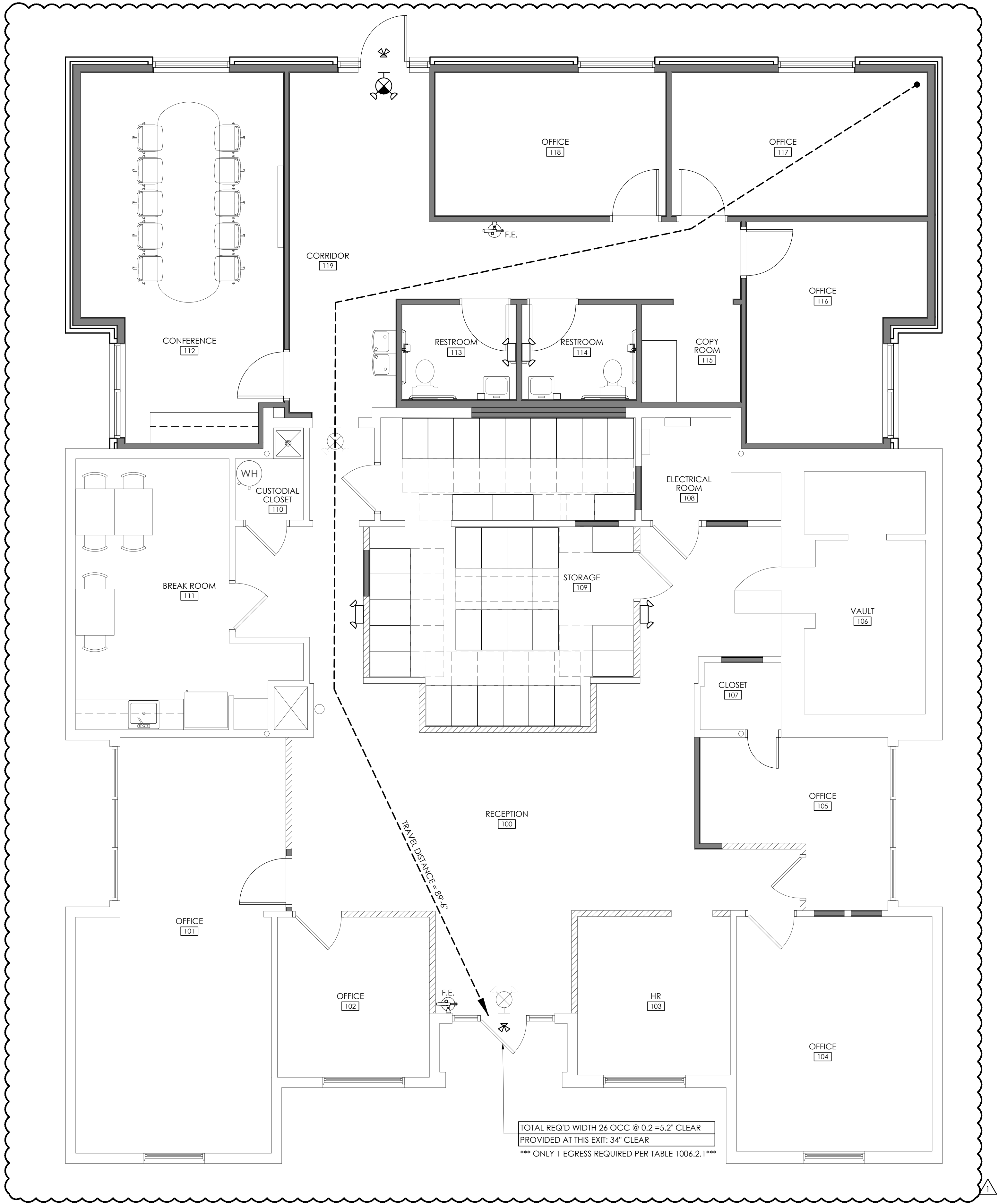
ECSD OFFICE EXPANSION
425 LEE ST
JOHNSTON, SC 29832

REVISIONS

PROJECT DATA
3,810 SQ. FT.
PROJECT NUMBER
24124
ISSUE DATE
10-16-24

EDGEFIELD COUNTY
FINANCE & HR OFFICE

G1.2
ACCESSIBILITY
GUIDELINE DIAGRAMS



- GENERAL NOTES
1.

G.C. TO VERIFY QUANTITY AND LOCATION OF FIRE EXTINGUISHERS WITH LOCAL AUTHORITIES. FIRE EXTINGUISHERS TO BE PROVIDED BY G.C.. REFER TO LIFE SAFETY PLAN.
2.

G.C. TO PROVIDE FIRE DEPARTMENT REQUIRED KEY BOX. COORDINATE LOCATION AND TYPE WITH LOCAL AUTHORITIES.
3.

"F.E." DENOTES TYPE 2-A FIRE EXTINGUISHERS (3,000 S.F. PROTECTION AREA) EXCEPT AS NOTED OTHERWISE.
4.

SEE ELECTRICAL DWGS. FOR EXIT SIGNS & EMERGENCY LIGHTING.
5.

ALL EXIT DOORS EQUIPPED WITH PANIC HARDWARE, TYP.

SYMBOL LEGEND

	WALL MOUNTED EXIT LIGHT / EMERGENCY LIGHT - SEE ELEC. DWGS.
	EXISTING WALL MOUNTED EXIT LIGHT / EMERGENCY LIGHT - SEE ELEC. DWGS.
	REMOTE HEAD - SEE ELEC. DWGS.
	WALL MOUNTED EMERGENCY WALL MOUNTED EMERGENCY - SEE ELEC. DWGS.
	TYPE 2-A FIRE EXTINGUISHER (3000 SQ FT PROTECTION AREA)
	EGRESS PATH OF TRAVEL

OCCUPANCY LOADS (NFPA 101 - CHAPTER 10 - TABLE 1004.1.2)

OCCUPANCY USE	SQUARE FEET/ OCCUPANT	TOTAL OCC. SQ FT	OCCUPANTS
BUSINESS (B)	150 (GROSS)	3809	26
TOTAL OCCUPANT LOAD			26

** ONLY 1 EGRESS REQUIRED PER TABLE 1006.2.1, SECTION 1020.4 DEAD ENDS DOES NOT APPLY**

EGRESS WIDTH (NFPA 101 - CHAPTER 10 - SECTION 1005)

USE GROUP OR SPACE DESCRIPTION	(A) OCCUPANT LOAD PER SQUARE FOOT	(B) EGRESS WIDTH PER OCCUPANT (SECTION 1005.3)		EXIT WIDTH (IN.)*			
		STAIR	LEVEL	REQUIRED WIDTH (SECTION 1005) (A X B)		ACTUAL WIDTH	
				STAIR	LEVEL	STAIR	LEVEL
BUSINESS (B)	26	0.3	0.2	N/A	4.8	SEE PLAN	

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SEAL

12/03/2024

Edgefield County SCHOOL DISTRICT

ECSD OFFICE EXPANSION

425 LEE ST

JOHNSTON, SC 29832

REVISIONS

REV1 12-03-24

PROJECT DATA

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EDGEFIELD COUNTY

FINANCE & HR OFFICE

LS1.0

LIFE SAFETY PLAN

GENERAL NOTES

GENERAL

- A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS.
- B. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
- C. THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION.
- D. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- E. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS.
- F. ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
- I. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS.
- J. SCHUMPERT ENGINEERING LLC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSION OF THE CONTRACTOR OR FOR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- K. PERIODIC SITE OBSERVATION BY SCHUMPERT ENGINEERING LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS AND IS NOT EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
- L. THE BUILDING OWNER SHALL PROVIDE PERIODIC MAINTENANCE TO INSURE STRUCTURAL INTEGRITY. SUCH MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO PAINTING OF STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS.

DESIGN CRITERIA

- A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
- B. DEAD LOADS
1. EXISTING ROOF SYSTEMS 20 PSF
2. NEW ROOF SYSTEM 20 PSF
- C. LIVE LOADS
1. LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD LISTED BELOW OR THE CONCENTRATED LOAD LISTED ACTING OVER A 6.25 SQUARE FOOT AREA. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFOREMENTIONED BUILDING CODE.
- | CATEGORY | UNIFORM LOAD (PSF) | CONCENTRATED LOAD (LBS) |
|--------------------------------------|-------------------------|-------------------------|
| a. ROOFS | | |
| ALL ROOF SURFACES SUBJECT TO WORKERS | | 300 |
| ORDINARY ROOF | 20 | |
| D. SNOW LOADS | | |
| GROUND SNOW LOAD, PG | 10 PSF | |
| FLAT ROOF SNOW LOAD, PF | 7 PSF | |
| RAIN-ON-SNOW SURCHARGE, PM | 5 PSF | |
| MINIMUM ROOF SNOW LOAD, CE | 10 PSF | |
| EXPOSURE FACTOR, CT | 1.0 | |
| SNOW THERMAL FACTOR, I | 1.0 | |
| SNOW IMPORTANCE FACTOR, I | 1.0 | |
| DESIGN ROOF SNOW LOAD | 12 PSF | |
| E. WIND LOAD | | |
| BASIC WIND SPEED, Vult/Vasd | 112/87 MPH (3-SEC GUST) | |
| RISK CATEGORY, II | | |
| EXPOSURE, B | | |
| INTERNAL PRESSURE COEFF, GCPI | ± 0.18 (ENCLOSED BLDG) | |

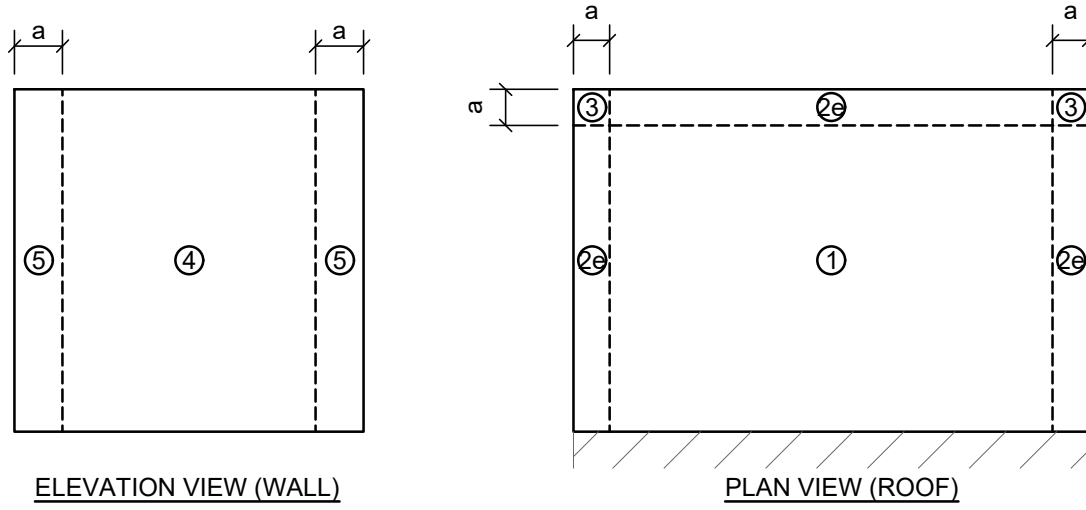
COMPONENTS AND CLADDING WIND LOADS (ULT):

Ultimate Design Wind Pressure (psf):							
		Effective Wind Area (sq ft)					
Walls:		10	20	50	100	200	500
Interior	Zone 4	+	18.5	17.7	16.5	16.0	16.0
		-	-20.1	-19.2	-18.1	-17.3	-16.5
Edge	Zone 5	+	18.5	17.7	16.5	16.0	16.0
		-	-24.8	-23.1	-20.9	-19.2	-17.6
Roof:		10	20	50	100	200	500
Interior	Zone 1	+	16.0	16.0	16.0	16.0	16.0
		-	-24.7	-21.9	-18.2	-16.0	-16.0
Edge	Zone 2r	+	16.0	16.0	16.0	16.0	16.0
		-	-33.0	-28.7	-22.9	-18.6	-18.5
Edge	Zone 2e	+	16.0	16.0	16.0	16.0	16.0
		-	-29.8	-25.1	-19.0	-16.0	-16.0
Corner	Zone 3	+	16.0	16.0	16.0	16.0	16.0
		-	-37.6	-29.4	-18.5	-18.5	-18.5
Overhang:		10	20	50	100	200	500
Corner	Zone 3	+	16.0	16.0	16.0	16.0	16.0
		-	-47.3	-39.1	-28.2	-28.2	-28.2

CORNER AND EDGE ZONES (WIDTH "a") ARE 3.0 FEET WIDE.

NOTES:

1. ALL WIND PRESSURES IN THIS TABLE ARE IN ACCORDANCE WITH ASCE 7-16 SECTION 30.3 (LOW-RISE BUILDINGS: PART 1)
2. POSITIVE AND NEGATIVE VALUES INDICATE PRESSURE ACTING TOWARD (PRESSURE) AND AWAY (SUCTION) FROM THEIR RESPECTIVE SURFACES.



COMPONENTS & CLADDING ROOF AND WALL PRESSURE SCHEMATICS (FOR USE WITH WIND COMPONENTS & CLADDING TABLE THIS SHEET)

DESIGN CRITERIA (CONTINUED)

- F. SEISMIC LOADS
- SHORT PERIOD SPECTRAL RESPONSE ACCELERATION, SS 0.298
- 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION, S1 0.101
- SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, SDS 0.318
- 1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, SD1 0.161
- RISK CATEGORY, II
- SEISMIC DESIGN CATEGORY, C
- SITE CLASS, D (ASSUMED)
- BASIC SEISMIC-FORCE RESISTING SYSTEM: LIGHT-FRAMED (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
- RESPONSE MODIFICATION FACTOR, R 6.5
- DEFLECTION AMPLIFICATION FACTOR, CD 4.0
- SEISMIC IMPORTANCE FACTOR, IE 1.0
- SEISMIC RESPONSE COEFFICIENT, CS 0.05
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- DESIGN BASE SHEAR, V 3.5 KIPS
- G. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, LOCATIONS AND ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT SUCH INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE. PROMPTLY NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE WEIGHT SHOWN ON THE STRUCTURAL DRAWINGS.
- H. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR-TO-FLOOR DEFLECTIONS AND LATERAL FRAME DEFLECTION.

FOUNDATIONS

- A. AN ALLOWABLE BEARING CAPACITY OF 1,500 PSF HAS BEEN ASSUMED AND SHALL BE CONFIRMED BY A QUALIFIED SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- B. ALL SOILS WORK, INCLUDING BACKFILL OF UTILITY TRENCHES AND THE VERIFICATION OF BEARING CAPACITY OF SAME SHALL BE UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER. PROXIMITY OF UTILITY TRENCHES TO BUILDING FOUNDATION SYSTEM SHALL BE AS APPROVED BY THE SOILS ENGINEER TO INSURE INTEGRITY OF THE BEARING SOILS.
- C. ALL FOOTINGS SHALL BEAR ON UNDISTURBED EARTH OR ENGINEERED FILL AT ELEVATIONS SHOWN ON PLANS AND DETAILS. GC TO COORDINATE FINAL TOP OF FOOTING ELEVATIONS WITH THE ARCHITECTURAL ELEVATIONS, MEP DRAWINGS, AND CIVIL GRADING PLANS PRIOR TO PLACEMENT. FOOTING STEPS DENOTED ON PLAN ARE APPROXIMATE, UNLESS NOTED OTHERWISE, AND SHALL BE FIELD COORDINATED.
- D. FLOOR SLABS SHALL BEAR ON 4 INCHES OF COMPACTED STONE MINIMUM UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT. THE MOISTURE RETARDER SHALL BE PLACED BETWEEN THE STONE AND THE SLAB WHERE INDICATED.
- E. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ALL CONFLICTS THAT EXIST BETWEEN FOOTINGS AND UTILITIES.
- F. ALL FOUNDATIONS OR PORTIONS THEREOF, BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS.
- G. UNLESS OTHERWISE SHOWN, ALL FOOTINGS SHALL BE CENTERED ON WALLS AND/OR COLUMNS.
- H. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DEWATERING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DEWATERING. PRIOR TO EXCAVATION.
- I. FOOTINGS SHALL NOT BE PLACED ON FROZEN SUBGRADE OR IN STANDING WATER.

CONCRETE

- A. CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- CONCRETE 28-DAY COMPRESSIVE STRENGTH AND DENSITY REQUIREMENTS:
- | USAGE | STRENGTH (PSI) | CONC. TYPE | COMMENTS |
|-----------------------------------------|----------------|---------------|----------|
| a. ALL CONCRETE NOT OTHERWISE SPECIFIED | 3000 | NWT | |
| b. FOOTINGS | 3000 | NWT | |
| c. SLAB-ON-GRADE | 3000 | NWT | |
| d. SLAB-ON-GRADE EXTERIOR | 4500 | AIR-ENTRAINED | |
1. NWT = NORMAL WEIGHT CONCRETE
2. ALL CONCRETE SHALL HAVE ALLOWABLE UNIT SHRINKAGE OF 0.045% AT 28 DAYS. (SEE ASTM C157)
- B. CONCRETE SHALL CONFORM TO THE FOLLOWING DURABILITY REQUIREMENTS PER ACI-318 SECTION 4.2 & 4.3:
- EXPOSURE/LOCATION
- a. FOOTINGS F0, S0, P0, C1
- b. EXTERIOR SLAB ON GRADE F1, S0, P0, C1
- c. INTERIOR SLAB ON GRADE F0, S0, P0, C0
- C. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
- D. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
- E. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
- F. ALL REINFORCEMENT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
1. ALL REINFORCING, UNO: ASTM A615 GRADE 60
2. WELDED WIRE REINFORCEMENT (WWR):
- a. SMOOTH WIRE: ASTM A 185 (65 KSI)
- b. POLYPROPYLENE FIBRILLATED FIBER MAY BE USED TO SUBSTITUTE WWR IN SLABS ON GRADE, WHEN ADDED TO CONCRETE MIX ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED DOSAGES.
- G. REINFORCEMENT DETAILING:
1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315.
- DEVELOPMENT AND SPICE LENGTHS ARE IN TENSION UNLESS OTHERWISE INDICATED AND SHALL BE AS TABULATED IN THE SPICE LENGTH TABLE, UNLESS OTHERWISE INDICATED.
2. LAP WWR ONE CROSSWIRE SPACING PLUS 2".
3. PROVIDE CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUOUS SPREAD FOOTINGS EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING.
4. REINFORCEMENT SHALL BE SECURELY PLACED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING [ACI 318 SECTION 7.7 AND IBC TABLE 720.1], UNLESS SPECIFICALLY DETAILED OTHERWISE:
- a. CAST AGAINST EARTH 3"
- b. EXPOSED TO EARTH/WEATHER #6 THRU #18 2"
- #5 & SMALLER 1 1/2"
- c. SLABS
- #11 & SMALLER 3/4"
5. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICATED.
- H. HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS SHALL NOT BE USED UNLESS SHOWN ON THE DRAWINGS. THE ARCHITECT/ENGINEER SHALL APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
- I. SLABS SHALL BE CAST MONOLITHICALLY UNLESS OTHERWISE INDICATED.
- J. CHAMFER ALL PERMANENTLY EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE.
- K. NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL.
- L. ALUMINUM SHALL NOT BE EMBEDDED IN ANY CONCRETE.

MASONRY VENEER:

- A. VENEER TIES: FOR ADJUSTABLE TWO-PIECE ANCHORS, ANCHORS OF WIRE SIZE W1.7 AND 22 GAGE CORRUGATED SHEET METAL ANCHORS, PROVIDE AT LEAST ONE ANCHOR FOR EACH 1.9 SQ FT OF WALL AREA. FOR ALL OTHER ANCHORS, PROVIDE AT LEAST ONE ANCHOR FOR EACH 2.5 SQ FT OF WALL AREA. SPACE ANCHORS AT A MAXIMUM OF 16 IN HORIZONTALLY AND 16 IN VERTICALLY.
- B. PROVIDE ADDITIONAL ANCHORS AROUND OPENINGS LARGER THAN 16" IN EITHER DIRECTION. SPACE ANCHORS AROUND PERIMETER OF OPENING AT A MAXIMUM OF 24" ON CENTER. PLACE ANCHORS WITHIN 12 IN OF OPENINGS.

LOOSE LINTEL SCHEDULE FOR BRICK VENEER	
CLEAR SPAN	ANGLE
0'-0" - 8'-0"	L5 x 5 x 5/16

NOTES:

1. PROVIDE 8" MINIMUM BEARING AT EACH END OF ANGLE.
2. TOE OF ANGLE SHALL BE LOCATED 1" FROM FACE OF BRICK MAX.
3. FOR EXACT SIZE AND LOCATION OF WALL OPENINGS, COORDINATE WITH ARCHITECTURAL DRAWINGS.
4. LOOSE LINTEL SCHEDULE APPLIES ONLY TO ANGLE LINTELS NOT OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS.
5. ANGLE LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.
6. AT BRICK VENEER CONTROL JOINT, FORM SLIP PLANE BY PLACING FLASHING ABOVE AND BELOW ANGLE. PROVIDE 1/4" GAP AT EACH END OF ANGLE FOR THERMAL EXPANSION.

WOOD FRAMING

- A. SAWN CUT LUMBER:
1. UNLESS NOTED OTHERWISE, ALL LUMBER TO BE #2 KD SOUTHERN YELLOW PINE WITH A MAXIMUM MOISTURE CONTENT OF 19%.
2. ALL EXTERIOR WALLS TO BE FRAMED WITH #2 SPRUCE-PINE-FIR 2x6 STUDS SPACED AT 16" ON CENTER MAX.
3. ALL INTERIOR LOAD BEARING WALLS SHALL BE 2x STUDS SPACED AT 16" ON CENTER.
4. PRESSURE (PRESERVATIVE) TREATED LUMBER
- a. ALL LUMBER EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE PRESSURE TREATED AND SHALL BEAR THE THIRD PARTY QUALITY MARK "ABOVE GROUND USE" AND MEET THE STANDARDS OF AWPA U1 USE CATEGORY UC3B (ABOVE GROUND, EXPOSED).
- b. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY, OR SOIL SHALL BE PRESSURE TREATED AND SHALL BEAR THE THIRD PARTY QUALITY MARK "GROUND CONTACT" AND MEET THE STANDARDS OF AWPA U1 USE CATEGORY UCA4 (GROUND CONTACT, GENERAL USE).
- c. ACZA (AMMONIACAL COPPER ZINC ARSENATE) SHALL NOT BE USED AS A CHEMICAL FOR PRESSURE TREATED LUMBER.
5. AS A MINIMUM, FASTEN ALL WOOD FRAMING WITH COMMON NAILS TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE AFOREMENTIONED BUILDING CODE.
6. ALL MULTIPLE PIECE WOOD BEAMS TO BE CONNECTED TOGETHER WITH (3) ROWS OF 16D NAILS @ 12" OC (UNLESS NOTED OTHERWISE).
7. THE DOUBLE TOP PLATES OF THE WALL SHALL RESIST THE CHORD FORCES IN THE ROOF DIAPHRAGM AND ACT AS DRAG STRUTS BETWEEN SHEAR WALL SEGMENTS. JOINTS SHALL BE LAPPED SPLICED WITHIN THE CENTER THIRD OF A WALL LENGTH AND THE MINIMUM LAP SHALL BE 4 FEET.
8. TIMBER CONNECTORS
- a. TIMBER CONNECTORS CALLED FOR ON THE DRAWINGS ARE AS MANUFACTURED BY THE SIMPSON COMPANY. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THE LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S FURNISHED NAILS AND BOLTS.
- b. CONNECTORS SHALL HAVE A MINIMUM CORROSION PROTECTION OF G90 GALVANIZATION.
- c. CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE TREATED LUMBER SHALL BE MANUFACTURED FROM SIMPSON ZMAX (G185 GALVANIZED) STEEL.
- d. CONNECTORS IN PROXIMITY TO SALT WATER SPRAY SHALL BE MANUFACTURED FROM TYPE 316L STAINLESS STEEL.
9. TIMBER FASTENERS
- a. FASTENERS USED IN PRESSURE TREATED OR FIRE TREATED LUMBER SHALL BE GALVANIZED TO ASTM STANDARD B695 - CLASS 55 OR A153 - CLASS D.
- b. FASTENERS USED IN PROXIMITY TO SALT WATER SPRAY SHALL BE MANUFACTURED FROM TYPE 316 STAINLESS STEEL OR BE HOT DIP GALVANIZED TO ASTM STANDARD A153 - CLASS C.
- B. WALL AND ROOF SHEATHING
1. WALL SHEATHING SHALL BE MANUFACTURED BY A MEMBER OF AMERICAN PLYWOOD ASSOCIATION, SHALL BE LABELED WITH THE APA GRADE STAMP AND CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. PANEL GRADE _____ RATED SHEATHING
- b. SPAN RATING _____ 16/32
- c. EXPOSURE DURABILITY CLASSIFICATION _____ EXPOSURE 1
- d. PRODUCT STANDARD _____ PS1 OR PS2
- e. THICKNESS _____ 1/2" NOMINAL
2. ROOF SHEATHING SHALL BE MANUFACTURED BY A MEMBER OF AMERICAN PLYWOOD ASSOCIATION, SHALL BE LABELED WITH THE APA GRADE STAMP AND CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. PANEL GRADE _____ RATED SHEATHING
- b. SPAN RATING _____ 40/20
- c. EXPOSURE DURABILITY CLASSIFICATION _____ EXPOSURE 1
- d. PRODUCT STANDARD _____ PS1 OR PS2
- e. THICKNESS _____ 5/8
3. ALL SHEATHING SHALL BE INSTALLED WITH THE STRENGTH (TYPICALLY FACE GRAIN) DIRECTION PERPENDICULAR TO THE SUPPORTING FRAMING WITH STAGGERED JOINTS.
4. ROOF SHEATHING SHALL BE INSTALLED WITH 5/8 PSCL SHEATHING CLIPS BY SIMPSON STRONG TIE, INC INSTALLED BETWEEN THE EDGED OF ALL ADJACENT PANELS MIDWAY BETWEEN SUPPORTING FRAMING MEMBERS THAT ARE SPACED MORE THAN 20-INCHES APART.
5. ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING FRAMING WITH 8D COMMON RING SHANK NAILS AT THE SPACING INDICATED BELOW:
- a. ROOF EDGE _____ 4" OC, UNLESS NOTED OTHERWISE
- b. SUPPORTED PANEL EDGES AWAY FROM EDGE OF ROOF _____ 6" OC
- c. SUPPORTED PANEL EDGES BLOCKED DIAPHRAGM _____ 6" OC, UNLESS NOTED OTHERWISE
- d. CENTER OF PANELS _____ 12" OC
- C. LAMINATED VENEER LUMBER (LVL):
1. ALL LAMINATED VENEER LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE NER-126 REPORT.
2. ALLOWABLE UNIT STRESSES REQUIRED FOR DRY CONDITIONS OF USE FOR VENEER LAMINATED LUMBER SHALL BE AS FOLLOWS:
- a. BENDING _____ 2600 PSI
- b. COMPRESSION PARALLEL TO GRAIN _____ 2460 PSI
- c. HORIZONTAL SHEAR _____ 285 PSI
- d. COMPRESSION PERPENDICULAR TO GRAIN _____ 750 PSI
3. LAMINATED VENEER LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MEMBER SIZES ARE NOMINAL.
- D. PARALLEL STRAND LUMBER (PSL):
1. ALL PARALLEL STRAND LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE NER-481 REPORT.
2. ALLOWABLE UNIT STRESSES REQUIRED FOR DRY CONDITIONS OF USE FOR PARALLEL STRAND LUMBER SHALL BE AS FOLLOWS:
- a. BENDING _____ 2900 PSI
- b. COMPRESSION PARALLEL TO GRAIN _____ 2900 PSI
- c. HORIZONTAL SHEAR _____ 290 PSI
- d. COMPRESSION PERPENDICULAR TO GRAIN _____ 650 PSI
- e. MODULUS OF ELASTICITY _____ 2,000,000 PSI
3. PARALLEL STRAND LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MEMBER SIZES ARE NOMINAL.

DEMOLITION

- A. REMOVE STRUCTURE FROM TOP DOWN WHERE APPLICABLE. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS WHICH ARE TO REMAIN IN PLACE. PROVIDE PLYWOOD AND/OR PLANKING TO CUSHION AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS AS DIRECTED BY OWNER.
- B. THESE DRAWINGS ARE INTENDED TO DEFINE LIMITS OF REMOVAL OF STRUCTURAL ELEMENTS AND PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON DEMOLITION.
- C. FOLLOW THESE GUIDELINES FOR STEEL MEMBER REMOVAL:
1. IN ORDER TO PREVENT DAMAGE TO STEEL COLUMNS WHEN REMOVING ANY STEEL BEAMS OR GIRDERS CONNECTED TO A STEEL COLUMN WHICH IS TO REMAIN, DO NOT BURN OFF CONNECTION TO COLUMN AT THE FACE OF COLUMN FLANGE OR WEB. OUTSTANDING LEGS OF CONNECTION ANGLES MAY BE BURNED OFF, BUT ANY LEG OR PLATE IN CONTACT WITH THE COLUMNS (WELDED OR BOLTED) SHALL NOT BE BURNED.
2. SIMILARLY, WHERE STEEL BEAMS WHICH ARE TO BE REMOVED AND ARE CONNECTED TO STEEL GIRDERS OR OTHER BEAMS WHICH WILL REMAIN, DO NOT BURN OFF CONNECTIONS AT THE FACE OF THE MEMBER WHICH WILL REMAIN.
3. BOLTED CONNECTIONS MAY BE REMOVED BY WITHDRAWING BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN REMOVED.
4. ANY QUESTIONABLE LOCATIONS OR SPECIAL CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.
- D. FOLLOW THESE GUIDELINES FOR BRICK VENEER AND MASONRY REMOVAL:
1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF SUPPORTING BEARING AND NON-BEARING MASONRY TO RECEIVE NEW OR ENLARGED OPENINGS. ROOF AND FLOOR LOADS BEARING ON WALLS REQUIRING NEW OPENINGS SHOULD BE LIMITED DURING CONSTRUCTION TO REDUCE LIVE LOAD ON WALLS.
2. FOR RELATIVELY SHORT SPAN OPENINGS, IT IS SUGGESTED THAT TRANSFER BEAMS BE APPLIED ON BOTH SIDES OF THE WALL (STEEL CHANNELS OR WOOD) ABOVE THE PROPOSED OPENING AND THRU BOLTED AT REGULAR INTERVALS TO SUPPORT THE WALL STRUCTURE TO REMAIN WHILE NEW HEADER BEAM IS INSTALLED. TRANSFER FRAMING SHALL BE DESIGNED FOR A TOTAL LOAD DEFLECTION OF L/600.
3. FOR LONGER SPAN OPENINGS, NEEDLE SHORING IS RECOMMENDED. NEEDLE BEAM SHORING SHALL BE DESIGNED FOR A TOTAL LOAD DEFLECTION OF L/600. PATCH ALL MASONRY AFTER NEEDLE BEAMS ARE REMOVED TO MATCH EXISTING.
4. WHERE MASONRY TO REMAIN CANNOT BE SAFELY SUPPORTED WITH SHORING, TRANSFER FRAMING, OR NEEDLE BEAMS, REMOVE THE STRUCTURE FROM THE TOP-DOWN AND RECONSTRUCT ON NEW HEADERS/LINTELS TO MATCH EXISTING OR AS DIRECTED IN THE STRUCTURAL PLANS/DETAILS. PROVIDE ALL TEMPORARY SUPPORT TO ROOF/FLOOR MEMBERS AS REQUIRED FOR THIS RECONSTRUCTION.
- E. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. SUBMIT A WRITTEN REPORT IDENTIFYING DEVIATIONS FROM THE EXISTING STRUCTURE INDICATED.
- F. INSTALL TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED.
- G. CONTACT THE STRUCTURAL ENGINEER FOR QUESTIONABLE LOCATIONS OR SPECIAL CONDITIONS NOT INDICATED OR DISCOVERED DURING CONSTRUCTION.
- H. SUBMIT DETAILS AND CALCULATIONS OF SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED INCLUDING PHASING, STAGING, AND SEQUENCE AS REQUIRED BY THE BUILDING OFFICIAL. SUBMITTA MUST BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE AND MUST BE RETAINED BY THE CONTRACTOR. PROVIDE SUBMITTAL TO SPECIAL INSPECTION AGENCY FOR REVIEWING THE INSTALLED SHORING/BRACING, PRIOR TO PROCEEDING WITH WORK AS REQUIRED.

SUBMITTALS

- A. THE GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS. PLEASE ALLOW 10 BUSINESS DAYS FOR REVIEW.
- B. A RECORD SET OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL CONTRACTOR.
- C. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
- D. THE CONTRACTOR SHALL PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
- E. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW:
1. MISCELLANEOUS STEEL (LOOSE BRICK ANGLES)
2. CONCRETE MIX DESIGNS
3. REINFORCING STEEL
4. PREFABRICATED WOOD TRUSSES (1, 3)
- F. ITEMS MARKED (1) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (2) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. ITEMS MARKED (3) SHALL HAVE DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
1. CONTRACTOR SHALL SUBMIT ONE SET OF REPRODUCIBLES AND TWO SETS OF PRINTS FOR ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.
2. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- G. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

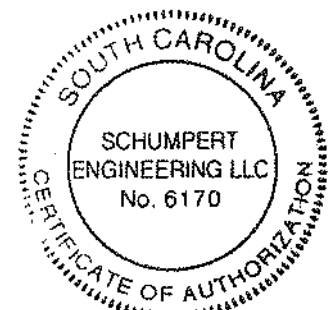


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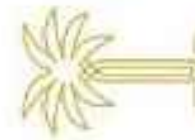
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GENERAL NOTES



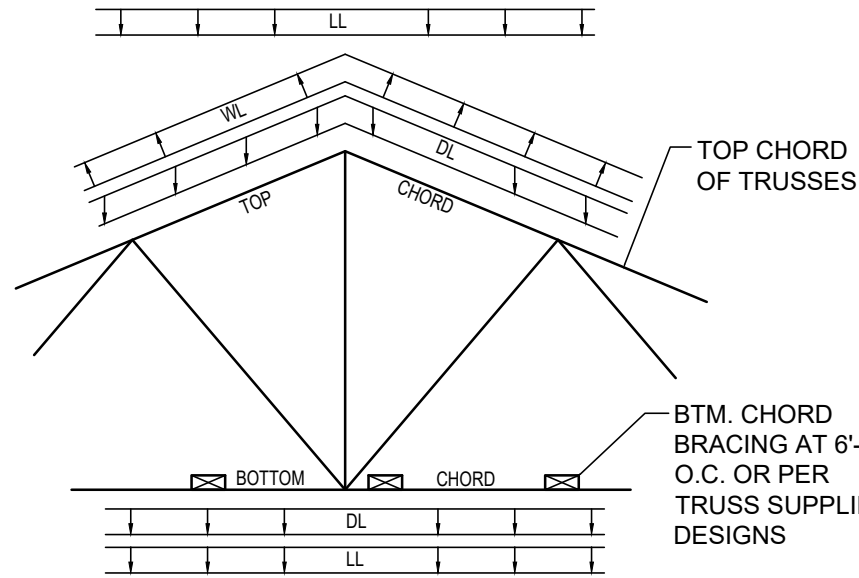
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GENERAL NOTES (CONTINUED)

- PREFABRICATED WOOD TRUSSES
- A. ALL PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO MEET THE LOADINGS SPECIFIED. FABRICATION AND ERECTION SHALL BE PER TRUSS PLATE INSTITUTE RECOMMENDATIONS AS CONTAINED IN THE APPROPRIATE PUBLICATIONS.
- B. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
- C. CONNECTIONS OF HIP TRUSSES SHALL BE WITH APPROPRIATE TRUSS HANGERS AS MANUFACTURER BY SIMPSON STRONG TIE CO., INC. OR AN APPROVED ALTERNATIVE FOR THE LOADS CALCULATED.
- D. COORDINATE TRUSS WEB CONFIGURATION WITH MECHANICAL DUCTWORK AS INDICATED ON MECHANICAL SHEETS. PROVIDE CLEAR SPACE BETWEEN WEBS AS REQUIRED TO INSTALL DUCTWORK.
- E. PROVIDE ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING AS REQUIRED AND SHOWN ON THE TRUSS MANUFACTURERS SHOP DRAWINGS.
- F. PROVIDE 2x4 DIAGONAL BRACING AT ROOF TRUSS VERTICALS WHERE INDICATED ON SECTIONS, DETAILS, OR TRUSS ELEVATION SCHEMATICS.
- G. INSTALL STRONG BACKS, BRACING AND/OR BRIDGING PRIOR TO DECK INSTALLATION AND AS TRUSSES ARE ERECTED.
- H. INSTALL 2x4 CONTINUOUS BOTTOM CHORD BRACING AT 6 FEET ON CENTER MAXIMUM AT ALL AREAS WHERE A RIGID CEILING IS NOT ATTACHED DIRECTLY TO THE TRUSS BOTTOM CHORD.
- I. ALL HURRICANE TIES SHALL BE INSTALLED PRIOR TO SHEATHING.
- J. REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES.
- K. ALL TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED BY THE DELEGATED TRUSS ENGINEER.



TYPICAL ROOF TRUSS LOAD DIAGRAM

NOTE: THIS DIAGRAM IS A SCHEMATIC SHOWING THE APPLICATION OF LOADS STATED HEREIN. LOADS SHALL BE COMBINED AS PROVIDED BY THE GOVERNING BUILDING CODE TO DETERMINE THE MOST UNFAVORABLE EFFECT.

PREFABRICATED ROOF TRUSS DESIGN CRITERIA:

- DL = 10 PSF TOP CHORD
LL = 20 PSF TOP CHORD / (OR A 300 LB PNT LOAD / 6.25 SF)
SEE 'DESIGN LOADS' THIS SHEET FOR MORE INFO.
WL = 112 (V-ULT) MPH PER 2021 IBC
DL = 10 PSF BOTTOM CHORD
LL = 0 PSF BOTTOM CHORD (UNLESS SUPPORTING MECH)

SPECIAL INSPECTIONS & TESTING (IBC CHAPTER 17)

CHECK IF REQ'D	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD / NOTES	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	SOILS			GEOTECHNICAL REPORT	1705.6
<input checked="" type="checkbox"/>	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X		
<input checked="" type="checkbox"/>	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		
<input checked="" type="checkbox"/>	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		
<input checked="" type="checkbox"/>	4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-		
<input checked="" type="checkbox"/>	5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X		

CHECK IF REQ'D	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD / NOTES	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	CONCRETE CONSTRUCTION			ACI 318	1705.3
<input checked="" type="checkbox"/>	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
<input type="checkbox"/>	2. REINFORCING BAR WELDING:				
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D14, ACI 318: 26.5.4	-
	B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		
	C. INSPECT ALL OTHER WELDS	X	-		
<input checked="" type="checkbox"/>	3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
<input checked="" type="checkbox"/>	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			NOTE b	
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4	-
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	-	X	ACI 318: 17.8.2	
<input checked="" type="checkbox"/>	5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
<input checked="" type="checkbox"/>	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12	1908.10
<input checked="" type="checkbox"/>	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
<input checked="" type="checkbox"/>	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.4.7 - 26.4.9	1908.9
<input type="checkbox"/>	9. INSPECT PRESTRESSED CONCRETE FOR:				
	A. APPLICATION OF PRESTRESSING FORCES; AND	X	-	ACI 318: 26.9.2.1	-
	B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-	ACI 318: 26.9.2.3	-
<input type="checkbox"/>	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH. 26.8	-
<input type="checkbox"/>	11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.10.2	-
<input checked="" type="checkbox"/>	12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11	-

- NOTES:
- a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

CHECK IF REQ'D	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD / NOTES	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	MASONRY CONSTRUCTION			TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6	1705.4
	LEVEL A QUALITY ASSURANCE			TABLE 1.19.1	
<input checked="" type="checkbox"/>	1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	-	X		

CHECK IF REQ'D	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD / NOTES	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	WOOD CONSTRUCTION				
<input checked="" type="checkbox"/>	1. PREFABRICATED WOOD ELEMENTS AND ASSEMBLIES IN ACCORDANCE WITH SECTION 1704.2.5	-	-		1705.5
	2. HIGH LOAD DIAPHRAGMS DESIGN IN ACCORDANCE WITH SECTION 2306.2				
<input checked="" type="checkbox"/>	A. INSPECT WOOD STRUCTURAL PANEL SHEATHING FOR CONFORMANCE TO GRADE AND THICKNESS AS SHOWN ON APPROVED CONSTRUCTION DOCUMENTS	-	X		1705.5.1
<input checked="" type="checkbox"/>	B. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS COMPLIES WITH APPROVED CONSTRUCTION DOCUMENTS	-	X		1705.5.1
	3. METAL-PLATE-CONNECTED WOOD TRUSSES				
<input checked="" type="checkbox"/>	A. INSPECTION OF WOOD TRUSSES WITH OVERALL HEIGHT OF 60 INCHES OR GREATER TO VERIFY THE INSTALLATION OF PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING HAS BEEN INSTALLED WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	-	X		1705.5.2
<input type="checkbox"/>	B. INSPECTION OF TEMPORARY INSTALLATION RESTRAINT/BRACING FOR WOOD TRUSSES WITH CLEAR SPAN OF 60 FEET OR GREATER AND VERIFICATION OF CONFORMANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	-	X		1705.5.2

CHECK IF REQ'D	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD / NOTES	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	FABRICATED ITEMS			NOTES a, b	1704.2.5 1705.10
<input checked="" type="checkbox"/>	1. INSPECTION DURING FABRICATION	-	X		
	A. STRUCTURAL	-	X		
	B. LOAD-BEARING	-	X		
	C. LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES	-	X		

- NOTES:
- a. SPECIAL INSPECTIONS FOR FABRICATED ITEMS ARE NOT REQUIRED IF THE FABRICATOR MEETS THE REQUIREMENTS FOR APPROVED FABRICATOR PER SECTION 1704.5.1
- b. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS. APPROVAL SHALL BE AT THE DISCRETION OF THE BUILDING OFFICIAL.

STATEMENT OF SPECIAL INSPECTIONS:

1. THE STATEMENT OF SPECIAL INSPECTIONS OUTLINED IN THIS SECTION, AS SPECIFIED BY CHAPTER 17 OF THE 2021 IBC, REQUIRES THAT THE OWNER EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS LISTED IN THE TABLE ON THIS SHEET. A REPORT SHALL BE FURNISHED TO THE BUILDING OFFICIAL AND THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE UPON THE COMPLETION OF EACH INSPECTION. UPON COMPLETION OF ALL SPECIAL INSPECTIONS A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.
2. CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY ACCORDING TO THE REQUIREMENTS LISTED IN SECTION 1704.4 OF THE IBC TO THE BUILDING OFFICIAL, OWNER, AND ENGINEER OF RECORD.
3. STRUCTURAL OBSERVATIONS DURING CONSTRUCTION ARE NOT REQUIRED PER SECTION 1704.5 AND WILL NOT BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD.
4. ALL STRUCTURAL COMPONENTS AND STRUCTURAL SYSTEMS SHALL BE TESTED AND INSPECTED ACCORDING TO THE APPROPRIATE CODE SPECIFICATIONS LISTED IN THE TABLE ON THIS SHEET.
5. SPECIAL INSPECTIONS NOTED AS "PERIODIC" SHALL REQUIRE INTERMITTENT OBSERVATION OF WORK BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHEN THAT PORTION OF THE WORK HAS BEEN COMPLETED.
6. SPECIAL INSPECTIONS NOTED AS "CONTINUOUS" SHALL REQUIRE FULL-TIME OBSERVATION OF WORK BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

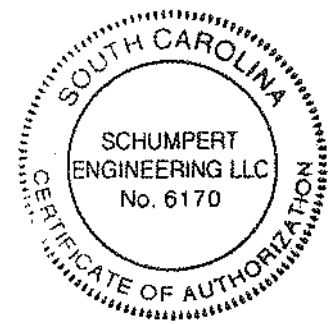


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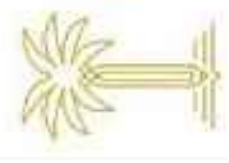
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GENERAL NOTES
(CONT)

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WALL FOOTING SCHEDULE				
MARK	FOOTING SIZE	BTM REINF (TRANSVERSE)	BTM REINF (LONG)	REMARKS
WF24	2'-0"W x12"T x CONT	#5 @ 16"	(2) #5	

NOTES:
1. INCREASE FOOTING DEPTH OR STEP TOP OF FOOTING DOWN AS REQUIRED TO MAINTAIN MINIMUM EMBEDMENT DEPTH INDICATED IN GEOTECHNICAL REPORT. COORDINATE WITH CIVIL FINISH GRADING PLAN.

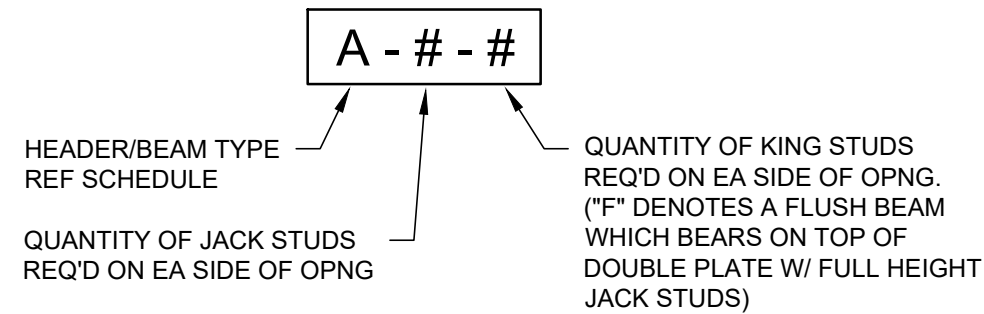
POST FOOTING SCHEDULE				
MARK	FOOTING SIZE	BTM REINF (TRANSVERSE)	BTM REINF (LONG)	REMARKS
F2.5	2'-6"x2'-6"x12"T	(3) #5	(3) #5	

NOTES:
1. WHERE FOOTING IN SCHEDULE ABOVE OCCURS SIMULTANEOUSLY WITH A WALL FOOTING, DUPLICATE REINFORCEMENT MAY BE OMITTED IF WALL FOOTING BARS ARE OF EQUAL OR GREATER SIZE AND QUANTITY. REINFORCEMENT SHOULD BE CONTINUOUS THROUGH INTEGRAL FOOTING.

HEADER & BEAM SCHEDULE					
CALLOUT	SIZE	COMMENTS	CALLOUT	SIZE	COMMENTS
A	(2) 2x6	2x4 JACKS AND KINGS	AA	(2) 1.75"x7.25" 2.0E LVL	REF PLAN FOR BRNG
B	(2) 2x8	2x4 JACKS AND KINGS	BB	(2) 1.75"x9.25" 2.0E LVL	REF PLAN FOR BRNG
C	(2) 2x10	2x4 JACKS AND KINGS	CC	(2) 1.75"x11.25" 2.0E LVL	REF PLAN FOR BRNG
D	(3) 2x6	2x6 JACKS AND KINGS	DD	(3) 1.75"x7.25" 2.0E LVL	REF PLAN FOR BRNG
E	(3) 2x8	2x6 JACKS AND KINGS	EE	(3) 1.75"x9.25" 2.0E LVL	REF PLAN FOR BRNG
F	(3) 2x10	2x6 JACKS AND KINGS	FF	(3) 1.75"x11.25" 2.0E LVL	REF PLAN FOR BRNG

NOTES:
1. ALL JACK AND KING STUDS MUST BE SPF #2. ALL WALL TOP PLATES AND SILL PLATES MUST BE SYP #2.
2. ALL DIMENSIONAL LUMBER HEADER SECTIONS SHALL BE SOUTHERN PINE #2 OR BETTER SPECIES, UNLESS NOTED OTHERWISE. PROVIDE INSULATION IN HEADER CAVITY PER ARCHITECTURAL WHERE SOLID HEADERS NOT UTILIZED.
3. CONNECT ROOF BEARING HEADERS / BEAMS TO JACK STUDS WITH MINIMUM (1) SIMPSON LSTA12 STRAP PER JACK STUD ON EACH FACE OF STUD WALL.
4. REFER TO DETAIL 1/S2.1 FOR MULTI-PLY DIMENSION LUMBER HEADER/BEAM CONNECTION REQUIREMENTS.
5. REFER TO DETAIL 2/S2.1 FOR MULTI-PLY LVL HEADER/BEAM CONNECTION REQUIREMENTS.
6. COLUMNS / HANGERS SPECIFIED ON PLAN OVERRIDE SUPPORT REQUIREMENTS SHOWN ON THIS SCHEDULE, TYPICAL.
7. ALL COLUMNS/JACK STUD PACKS SHALL CONTINUE TO FOUNDATION UNLESS INTERRUPTED BY PODIUM SLAB OR BEAM/HEADER.
8. AT INTERIOR HEADERS, QUANTITY OF KING STUDS MAY BE REDUCED TO ONE (1) ON EACH END OF OPENING TO FIT ALL JACKS IN WALL LENGTH AVAILABLE WHERE NEEDED.
9. CONTACT THE ENGINEER OF RECORD FOR OPENINGS NOT LABELED OR QUESTIONABLE AREAS NOT CLEARLY ILLUSTRATED ON PLANS/DETAILS.

HEADER/BEAM LEGEND:



HANGER / CONNECTOR SCHEDULE		
MARK	SIZE/MODEL	ASD CAPACITY, LBS (SPF/HF)
H1	SIMPSON AC6 (PAIR)	---

NOTES:
1. ALL SUBSTITUTE HARDWARE PRODUCTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. HANGER HARDWARE TO BE ATTACHED TO BEAM, GANGED STUDS OR SOLID POST WHERE INDICATED ON PLAN. PROVIDE POST PER COLUMN SCHEDULE WHERE INDICATED. PROVIDE JACK STUDS PER HEADER SCHEDULE OR PROVIDE QUANTITY OF STUDS TO MATCH NUMBER OF PLIES OF WOOD BEAM, WHICHEVER IS GREATER.

WOOD COLUMN SCHEDULE	
MARK	SIZE
C1	PT 6x6 SYP#2

NOTES:
1. ALL COLUMNS SHALL CONTINUE TO FOUNDATION UNLESS INTERRUPTED BY BEAM/HEADER.
2. WOOD COLUMNS ARE DENOTED AT TOP OF COLUMN.

SHEAR WALL SHEATHING SCHEDULE					
SHEAR WALL	SHEATHING	EDGE FASTENING	FIELD FASTENING	SHEAR	NOTES
SWA	(1) 7/16" WSP	8d @ 8" OC	8d @ 12" OC	305 PLF	9

SHEAR WALL NOTES:
1. "WSP" DENOTES WOOD STRUCTURAL PANEL (OSB OR PLYWOOD), PS1 OR PS2.
2. BLOCK ALL UNSUPPORTED EDGES OF PANELS WITH 2x MATERIAL UNO. WHERE 10d NAILING IS 3" OC OR LESS, 8d NAILING IS 2" OR LESS, OR IF NOMINAL SHEAR IS 700 PLF OR GREATER, FRAMING AT ADJOINING PANEL EDGES SHALL BE 3x OR WIDER (DOUBLE 2x IS ACCEPTABLE) AND NAILS SHALL BE STAGGERED, APPLIES TO STUDS AT SHEATHING EDGES, BLOCKING, TOP PLATES, AND SILL PLATES.
3. SHEAR WALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDOWNS FROM THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS AND REFER TO HOLD-DOWN MANUFACTURER'S LITERATURE FOR HOLD-DOWN DEVICE DIMENSIONS AND HOLD-DOWN ANCHOR DIMENSIONS FROM FACE OF STUD.
4. EDGE FASTEN WALL SHEATHING TO STUDS OR POSTS WITH HOLDOWNS.
5. EDGE FASTENING APPLIES TO FASTENING AT ALL EDGES OF PANELS, TOP AND BOTTOM PLATES, AND BLOCKING. FIELD FASTENING APPLIES TO FASTENING AT STUDS.
6. (1) DESIGNATES SHEATHING REQUIRED ON 1 FACE OF WALL STUDS. (2) DESIGNATES SHEATHING REQUIRED ON 2 FACES (EA FACE) OF WALL STUDS.
7. WHERE PANELS ARE REQUIRED ON BOTH FACES OF THE WALL AND FASTENER SPACING IS LESS THAN 6" OC, ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3 INCH NOMINAL OR THICKER (DOUBLE 2x IS ACCEPTABLE) AT ADJOINING PANEL EDGES AND FASTENERS ON EACH SIDE SHALL BE STAGGERED.
8. SHEAR LOADS ARE ALLOWABLE LOADS IN POUNDS PER LINEAR FOOT (PLF).
9. FOR ALL EXTERIOR WALLS NOT INDICATED AS SHEAR WALLS ON PLAN, PROVIDE SHEATHING AND ATTACHMENT FOR TYPE SWA AS A MINIMUM.

SILL PLATE ANCHORAGE SCHEDULE			
SHEAR WALL	BASE MATERIAL & ANCHOR REQ'MENTS		
	CONCRETE (TITEN HD OPTION) ⁽¹⁾	CONCRETE (PAF OPTION) ^(1,5)	CONCRETE (MASA OPTION) ⁽⁶⁾
SWA ⁽³⁾	5/8" DIA x 6" LONG TITEN HD @ 48" OC (REF DET 6/S2.0)	(2) SIMPSON PDPAWL-287	SIMPSON MASA @ 48" OC

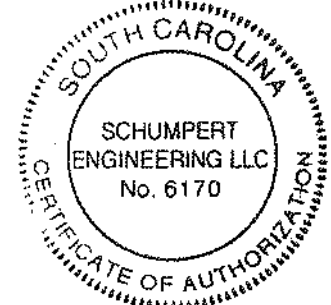
NOTES:
1. REQUIRED NUMBER OF FASTENERS PER 16" OC (OR PROVIDE SAME QUANTITY IF STUDS SPACED AT 12" OC).
2. REFERENCE SECTIONS & DETAILS FOR MORE INFORMATION ON SILL ATTACHMENT WHERE APPLICABLE.
3. SWA SILL ATTACHMENT REQUIREMENTS APPLICABLE AT ALL EXTERIOR WALLS AND INTERIOR WALLS NOT DESIGNATED AS SHEAR WALLS ON PLAN.
4. TITEN HD IS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY AND SHALL HAVE A MINIMUM EMBEDMENT INTO SLAB OF 4 1/2 INCHES.
5. PAF OPTION IS ONLY ACCEPTABLE FOR INTERIOR WALLS (NOT EDGE OF SLAB). MINIMUM EMBEDMENT OF FASTENER SHALL NOT BE LESS THAN 1".
6. MASAMUDSILL ANCHOR SHALL BE INSTALLED USING MANUFACTURER'S "STANDARD INSTALLATION" ORIENTATION. MINIMUM END DISTANCE FOR MASAA NCHOR ON WOOD SILL PLATE/SLAB EDGE IS 4 INCHES.

SHEAR WALL HOLDOWN / END STUD SCHEDULE				
HOLDOWN ID (ON PLAN)	HOLDOWN SPEC	MIN REQ'D END STUDS ²	REQ'D CAPACITY (ASD), lb	ANCHOR SIZE/EMBEDMENT OR NAILING PATTERN ^{3, 4}
HD1	SIMPSON DTTZZ-SDS2.5	(2) 2x6	2,105	1/2"Ø F1554 THRD. ROD W/ NUT, DRILL & EPOXY W/ SIMPSON SET-3G (8" EMBED)

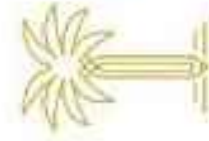
NOTES:
1. REF SECTIONS & DETAILS FOR FURTHER REQUIREMENTS AT HOLDOWNS.
2. ALL END STUDS SHALL BE #2 SPF OR BETTER (TYP UNO).
3. POST INSTALLED ANCHORAGE IS ACCEPTABLE WHERE INDICATED AS AN OPTION. MINIMUM EDGE DISTANCE FOR POST-INSTALLED ANCHORS SHALL NOT BE LESS THAN 1 3/4" FROM EDGE OF SLAB FOR 2x4 SILL PLATES AND NOT BE LESS THAN 2 3/4" FROM EDGE OF SLAB FOR 2x6 SILL PLATES.
4. FOR ANCHORS INSTALLED IN TOP OF CMU FOUNDATION BLOCK, CORES MUST BE GROUTED SOLID.



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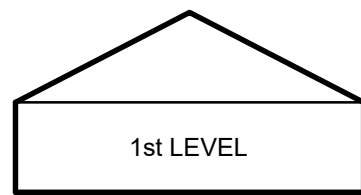
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S0.2

NOTE REGARDING EXISTING CONSTRUCTION

THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.



WOOD STUD WALL SCHEDULE (11'-2" MAX PLATE HEIGHT)			
	EXTERIOR BRNG WALLS	INTERIOR BRNG WALLS	
	2x6 SPF #2 UNO	2x4 OR 2x6 SPF #2 UNO	
1st LEVEL	(1) @ 16" OC	(1) @ 16" OC	

NOTES:

- ALL TOP AND BOTTOM PLATES SHALL BE #2 SYP OR BTR.
- FINGER-JOINTED LUMBER IS ACCEPTABLE.
- REF ARCH PLAN AND WALL TYPES FOR STUD SIZES THAT MAY DIFFER THAN THIS SCHEDULE WITHIN BUILDING FOOTPRINT.
- PROVIDE MID-HEIGHT BLOCKING ALL WALLS AND AT ALL PANEL EDGES AT SHEAR WALLS

SLAB CONSTRUCTION

4" CONCRETE SLAB REINFORCED WITH FIBER MESH (SIKA FIBERMESH 300 OR APPROVED EQUAL) OR 6x6-W1.4xW1.4 FLAT SHEETS, OVER 10 MIL VAPOR BARRIER AND COMPACTED STRUCTURAL FILL MATERIAL. REFERENCE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AT BUILDING PAD.

CONTROL JOINT NOTE:

CONTROL JOINT SPACING SHALL NOT EXCEED 12 FEET EACH WAY, AND SLAB UNITS CREATED BY JOINT LAYOUTS SHOULD BE AS SQUARE AS POSSIBLE WITH A MAXIMUM ASPECT RATIO OF 1.25 TO 1. REFERENCE DETAIL 3/S2.0 FOR CONTROL JOINT REQMENTS.

GC TO COORDINATE ALL SLAB DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO PLACEMENT OF CONCRETE

KEY NOTES	
(F1)	EXISTING CONCRETE SLAB ON GRADE TO REMAIN. REPAIR AREAS OF DAMAGED SLAB OR AREAS REQUIRING INFILL PER DETAILS 1/S2.0 & 2/S2.0.
(F2)	EXISTING CONCRETE MASONRY WALL AND WALL FOOTING, TO REMAIN.
(F3)	INFILL EXISTING OPENING WITH NEW STUDS OR MASONRY (REF 3/S3.0). COORD W/ ARCHITECTURAL DRAWINGS.
(F4)	INFILL EXISTING INTERIOR, NON-STRUCTURAL WALL OPENINGS WITH WOOD FRAMING TO MATCH. COORD W/ ARCHITECTURAL DRAWINGS.
(F5)	NEW INTERIOR, NON-STRUCTURAL WALL. COORD DIMENSIONS AND EXTENTS WITH ARCHITECTURAL DRAWINGS.
(F6)	NEW CONCRETE FLOOR SLAB, REFER TO SLAB CONSTRUCTION NOTE ON THIS SHEET.

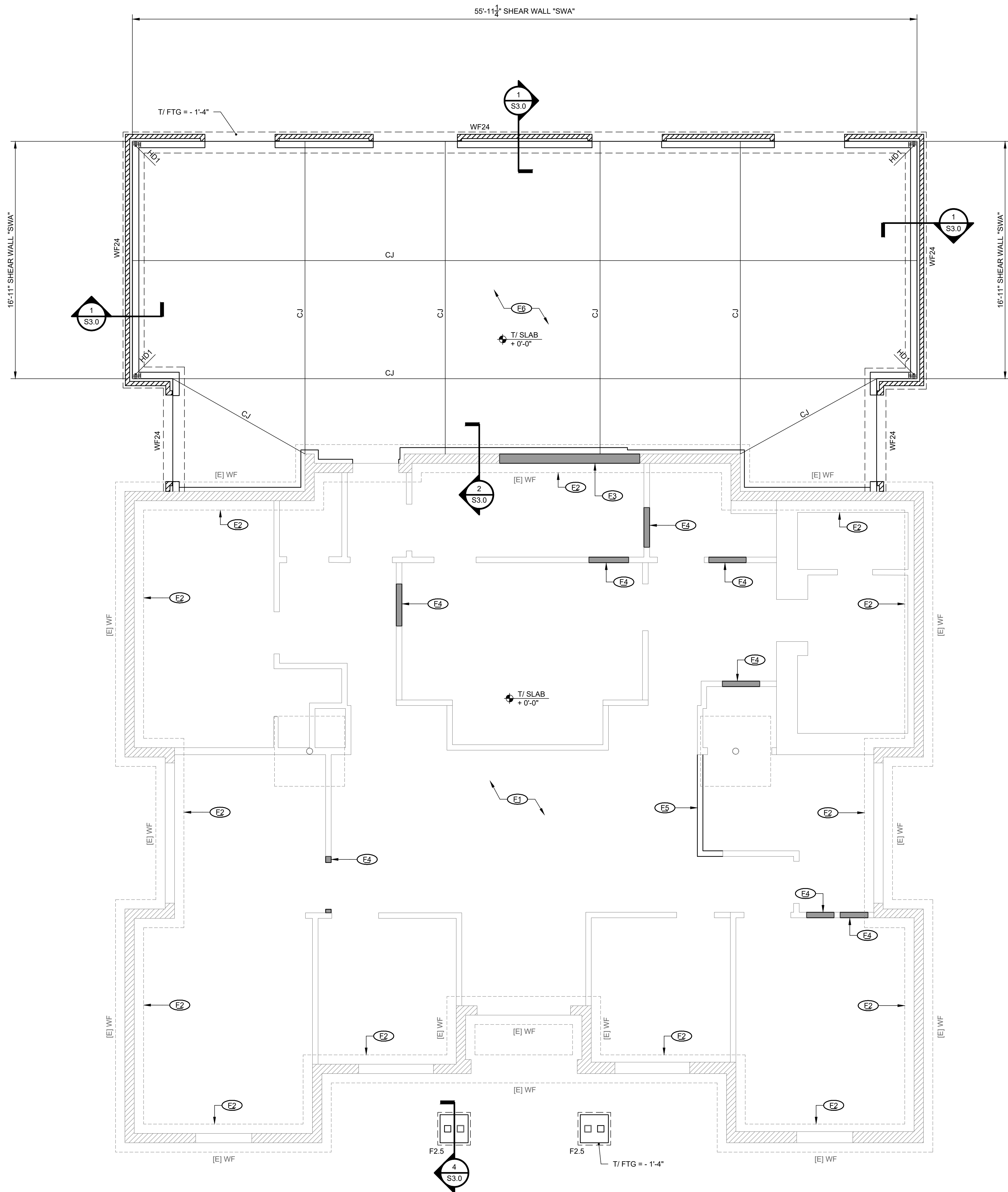
FOUNDATION PLAN

1/4" = 1'-0"
T/SLAB ELEVATION = +0'-0"
T/FTG ELEVATION = -1'-4", FIELD VERIFY

- DO NOT SCALE DRAWINGS
REFERENCE A-DWGS FOR ALL DIMENSIONS NOT ON PLAN
DIMENSIONS ARE TO CENTERLINE OF COLUMN OR EDGE OF SLAB
- # DENOTES KEY NOTE, REF SCHEDULE ON THIS SHEET
- [E] DENOTES EXISTING STRUCTURAL ELEMENT, FIELD VERIFY
- F.V. DENOTES "FIELD VERIFY"
- WF# DENOTES WALL FOOTING, REF SCHED ON SHEET S0.2
- SW# DENOTES SHEAR WALL LOCATION, REF SCHED ON SHEET S0.2
- HD# DENOTES SHEAR WALL HOLDOWN, REF SCHED ON SHEET S0.2

EXTERIOR WALL SHEATHING:

ALL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" WOOD STRUCTURAL PANELS (OSB OR PLYWOOD) AND FASTENED TO WOOD STUDS WITH 8d NAILS AT 6" OC ALONG PANEL EDGES AND 12" OC IN THE FIELD (UNLESS NOTED OTHERWISE)

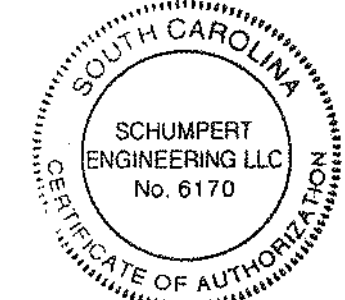


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Edgefield County
SCHOOL DISTRICT



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JOHNSTON, SC 29832

REVISIONS

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3,810 SQ. FT.

PROJECT NUMBER

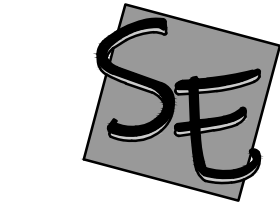
24124

ISSUE DATE

07-02-24

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FOUNDATION PLAN



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\$1.0

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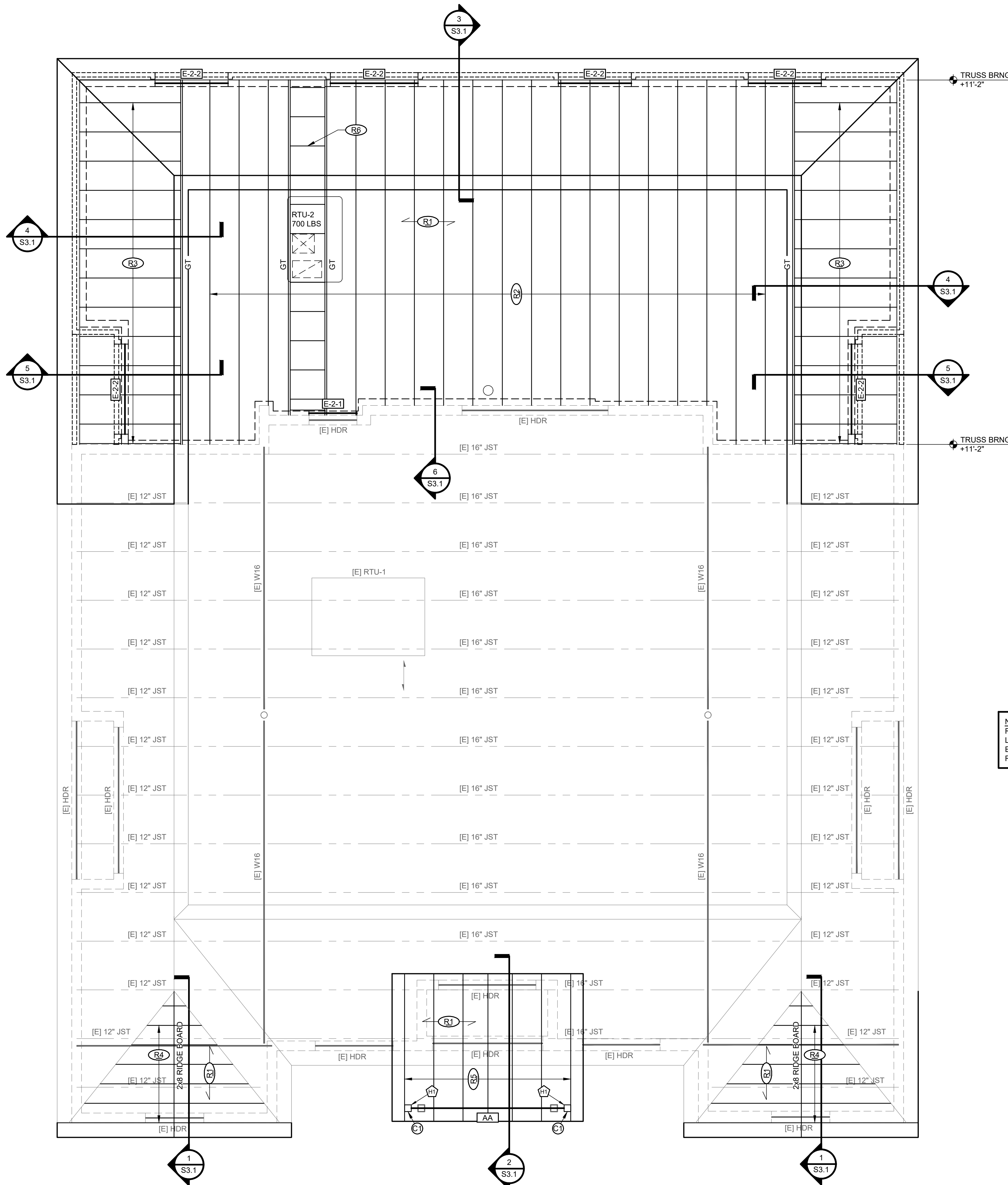
KEY NOTES	
(R1)	5/8" NOMINAL, EXP 1 PLYWOOD ROOF SHEATHING. REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
(R2)	24" DEEP PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" OC MAX.
(R3)	24" DEEP PRE-ENGINEERED WOOD ROOF JACK TRUSSES @ 24" OC MAX.
(R4)	2x6 GABLE RAFTERS AND BOTTOM TIES @ 16" OC.
(R5)	2x8 SHED ROOF RAFTERS @ 24" OC MAX.
(R6)	2x4 TOP CHORD BLOCKING RAFTERS @ 24" OC MAX FOR ROOF SHEATHING SUPPORT AT GIRDER TRUSSES.

ROOF FRAMING PLAN

1/4" = 1'-0"
T/STEEL (JST BRNG) ELEVATION = FIELD VERIFY

- DO NOT SCALE DRAWINGS
- REFERENCE A-DWGS FOR ALL DIMENSIONS NOT ON PLAN
- DIMENSIONS ARE TO CENTERLINE OF COLUMNS, UNO

- (#) DENOTES KEY NOTE, REF SCHEDULE ON THIS SHEET
- (E) DENOTES EXISTING STRUCTURAL ELEMENT, FIELD VERIFY
- F.V. DENOTES "FIELD VERIFY"
- (#-#-#) DENOTES HEADER / BEAM, REF SCHED ON SHEET S0.2
- (C) DENOTES WOOD COLUMN, REF SCHED ON SHEET S0.2
- (HW) DENOTES HANGER / HARDWARE, REF SCHED ON SHEET S0.2
- GT DENOTES PRE-ENGINEERED GIRDER TRUSS, BY TRUSS SUPPLIER, PROVIDE MIN (3) BEARING STUDS UNDER EA BEARING LOCATION, UNO (TYP). TIE-DOWN GIRDER TRUSS PER DET 8/S2.1 AT EACH BEARING LOCATION.



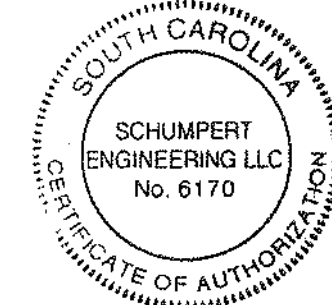
NOTE:
REFER TO GENERAL NOTES FOR
LOOSE LINTEL SCHEDULE FOR
EXTERIOR BRICK VENEER SUPPORT.
REFER TO DETAIL 10/S2.1.



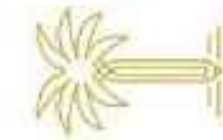
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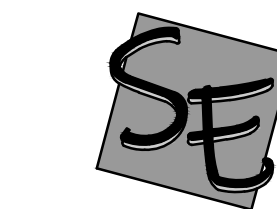
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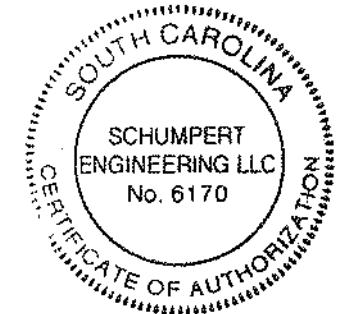
EDGEFIELD COUNTY
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ROOF FRAMING PLAN

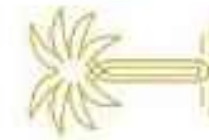


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S1.1



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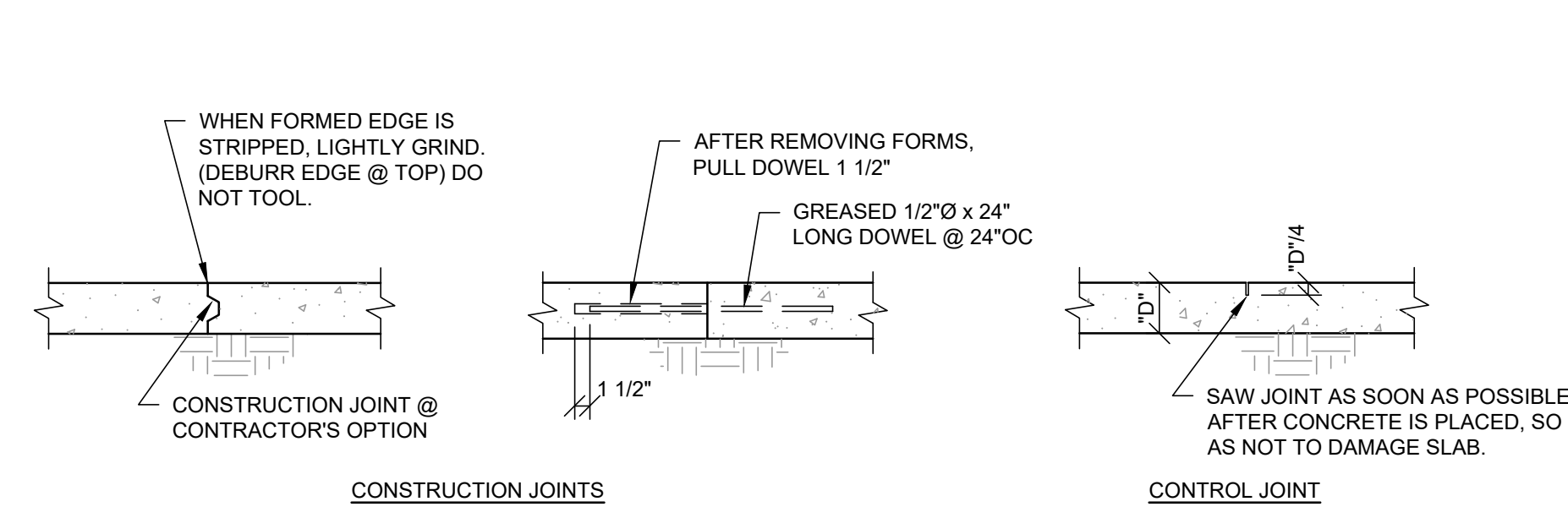
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07-02-24

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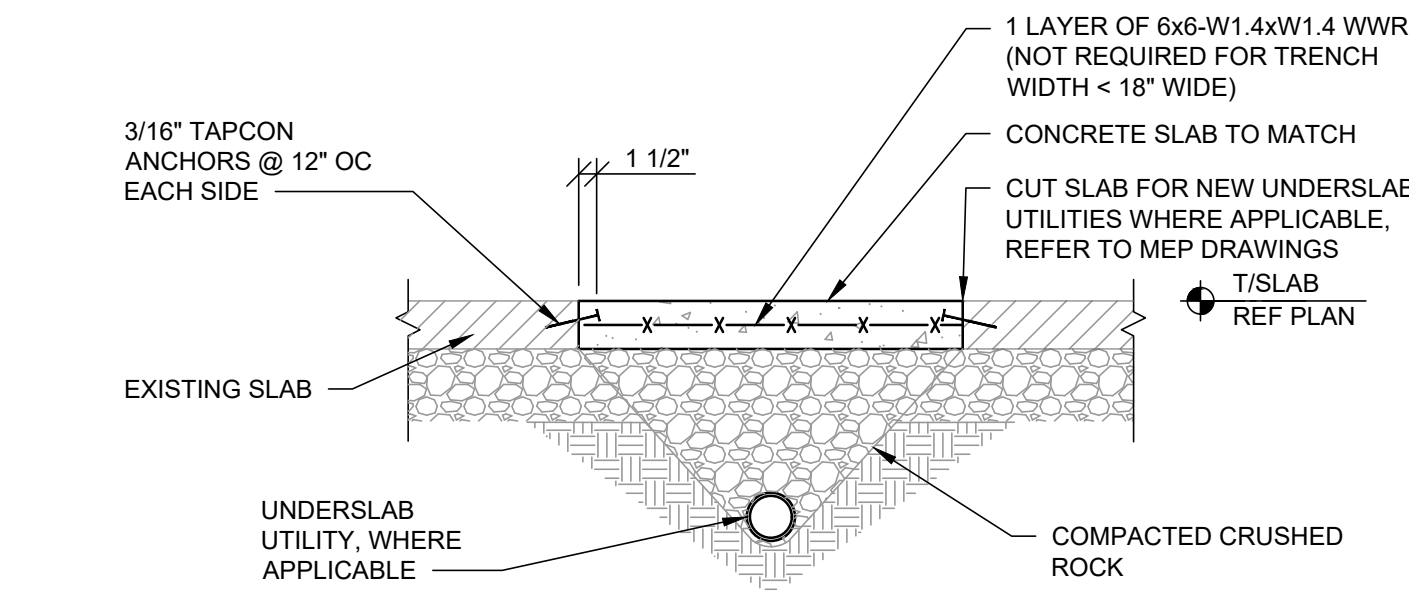
TYPICAL DETAILS

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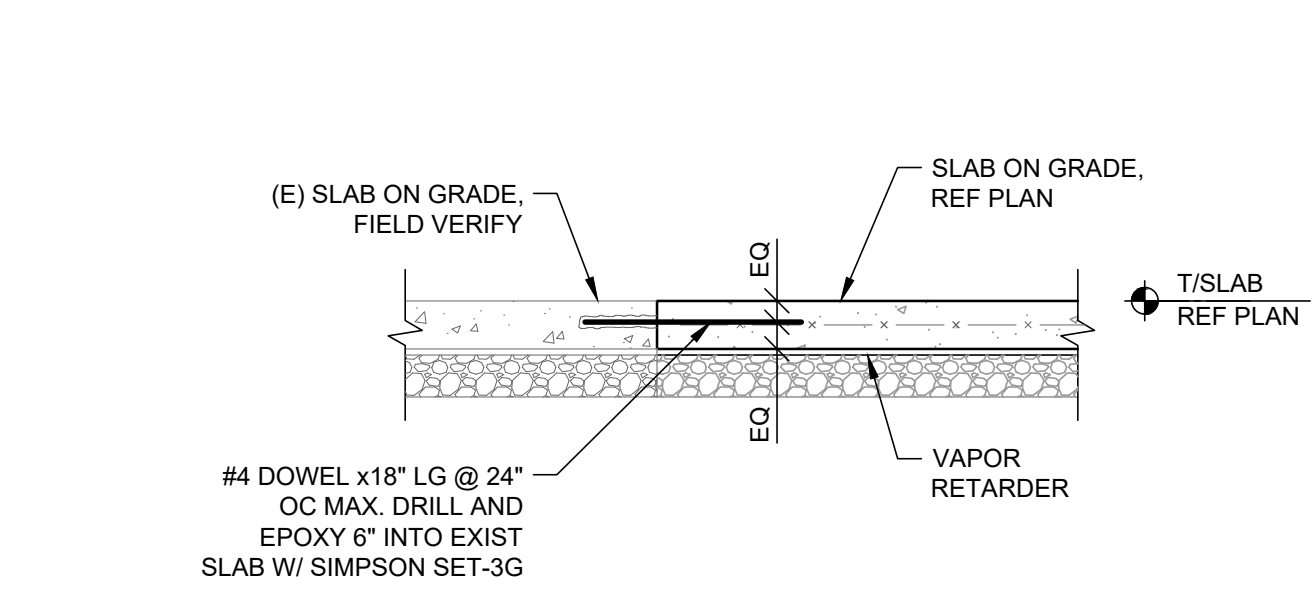
S2.0



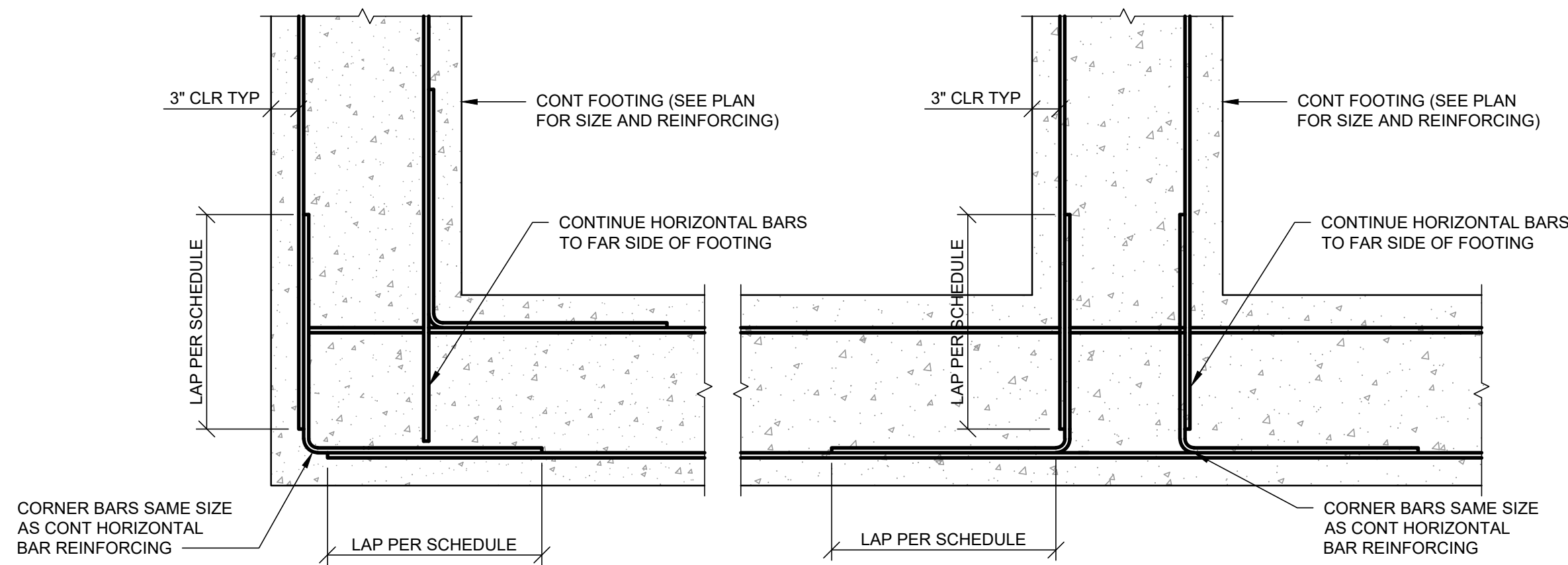
3 CONSTRUCTION & CONTROL JOINT DETAILS
3/4" = 1'-0"



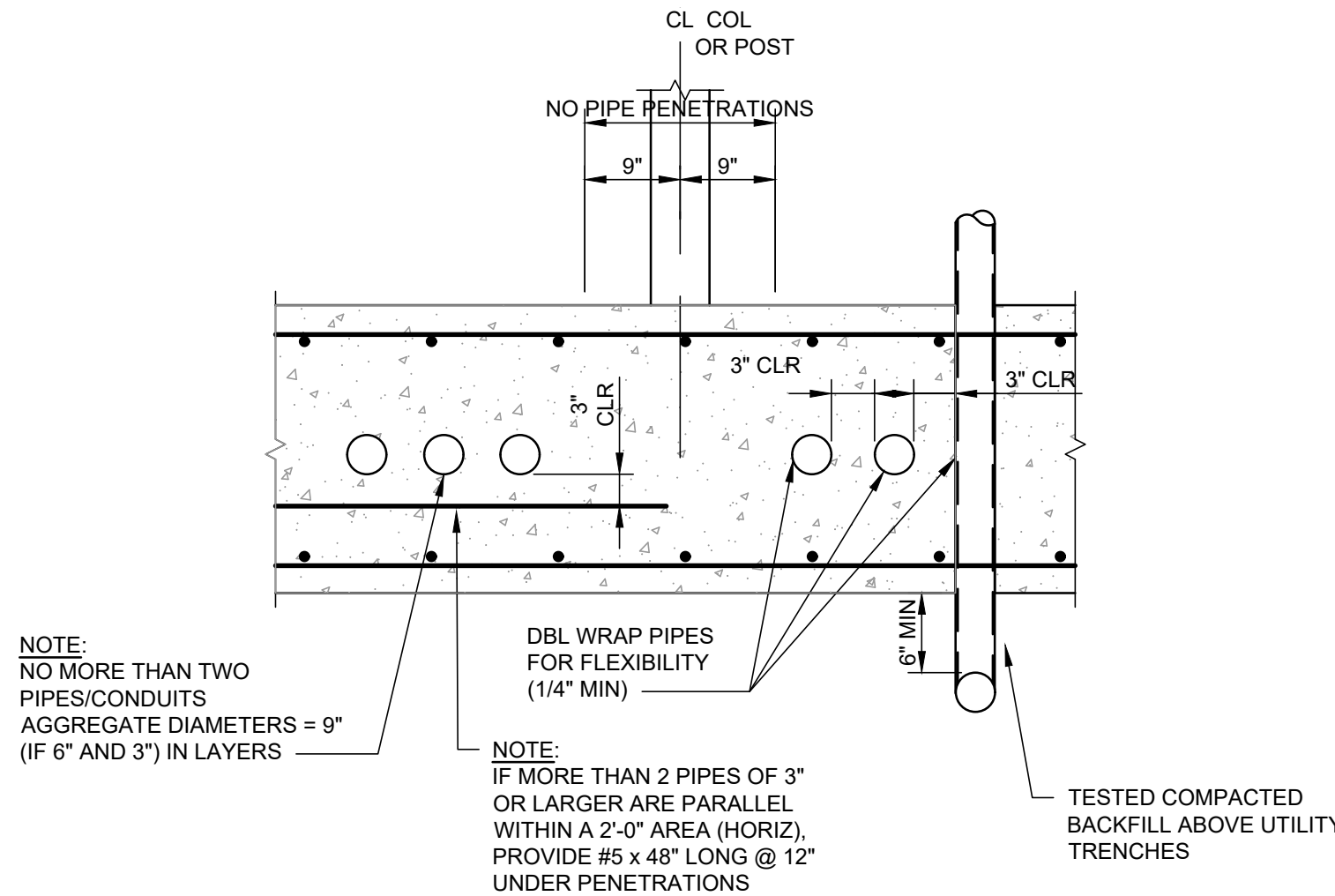
2 UTILITY TRENCH INFILL DETAIL
3/4" = 1'-0"



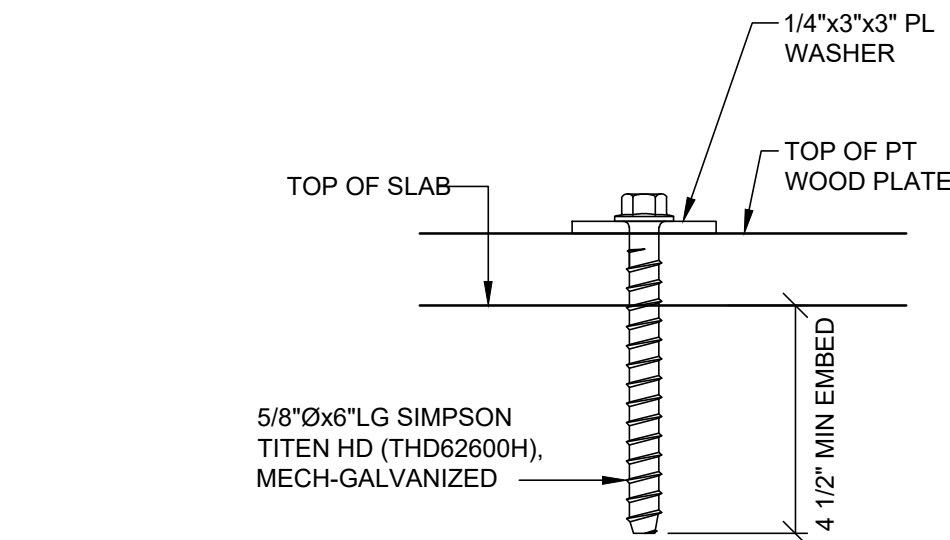
1 NEW SLAB-TO-EXISTING SLAB DETAIL
3/4" = 1'-0"



4 TYP CORNER AND INTERSECTING FOOTING/TURNDOWN DETAIL
N.T.S.

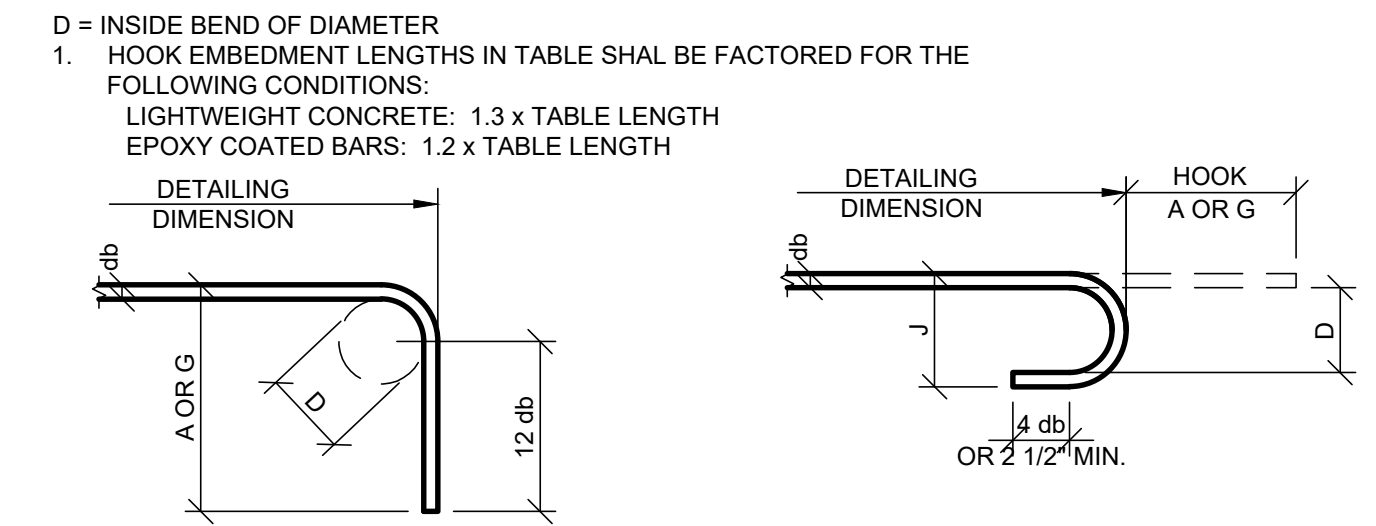


5 PIPES THRU FOUNDATIONS
3/4" = 1'-0"

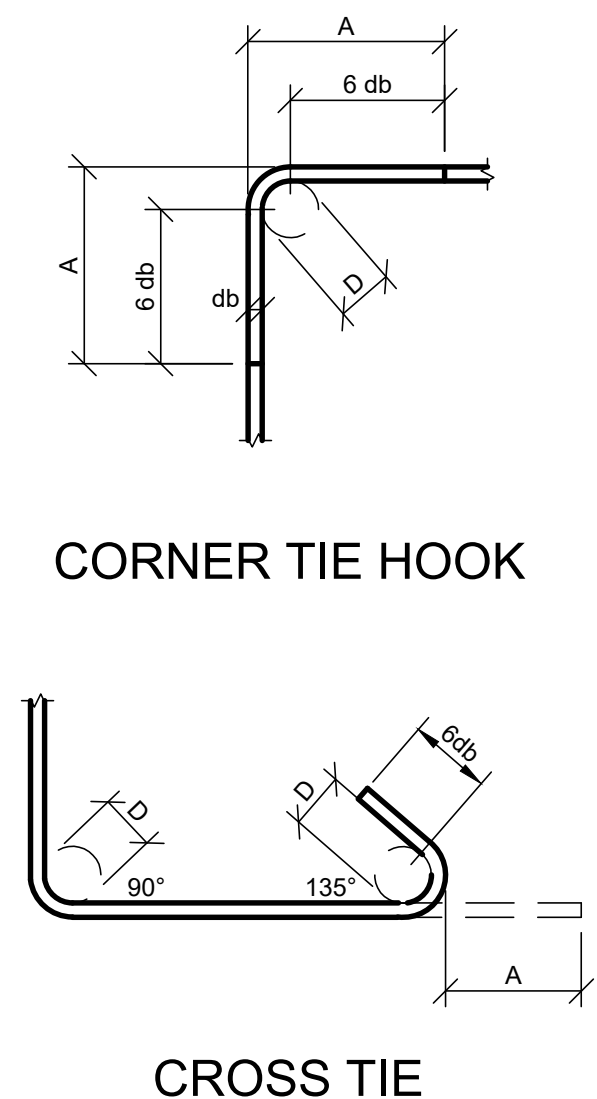


6 SILL ANCHORAGE - TITEN HD
NOT TO SCALE

RECOMMENDED END HOOKS					HOOK MIN DEVELOPMENT LENGTHS (IN)		
BAR SIZE	FINISHED BEND DIAMETER D, (IN.)	180 DEG. HOOKS		90 DEG. HOOKS	NORMAL WT. CONCRETE		
		A OR G (IN.)	J (IN.)	A OR G (IN.)	3000	4000	5000
#3	2 1/4	5	4	6	6	6	6
#4	3	6	4	8	8	7	6
#5	3 3/4	7	6	10	10	9	8
#6	4 1/2	8	4	12	12	10	9
#7	5 1/4	10	4	14	14	12	11
#8	6	11	6	16	16	14	12
#9	9 1/2	15	11 3/4	19	18	15	14
#10	10 3/4	17	13 1/4	22	20	17	15
#11	12	19	14 3/4	24	22	19	17

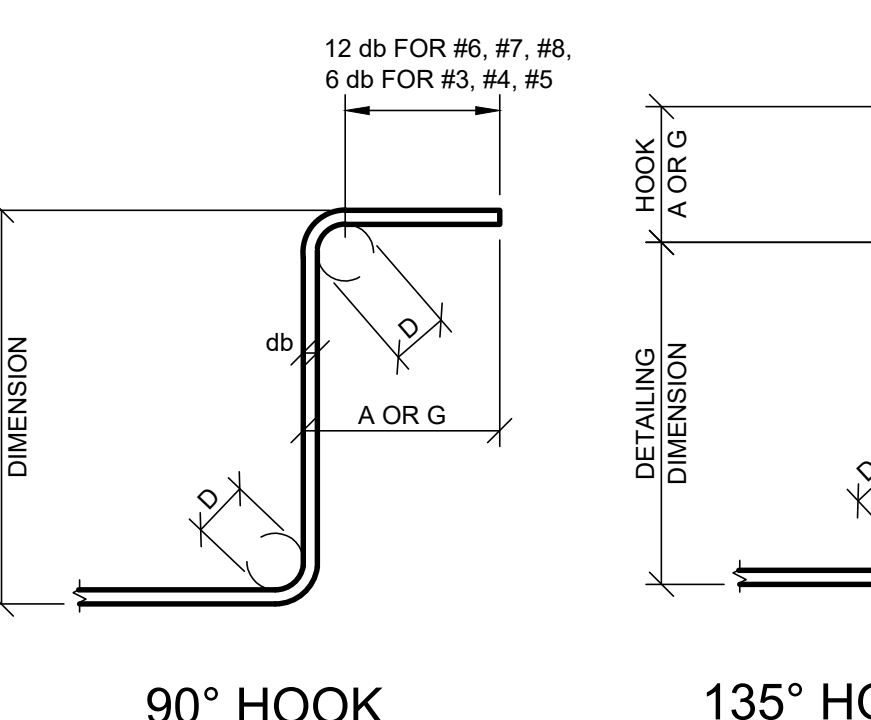


90 DEG HOOK 180 DEG HOOK
1 END HOOK TYPES
N.T.S.

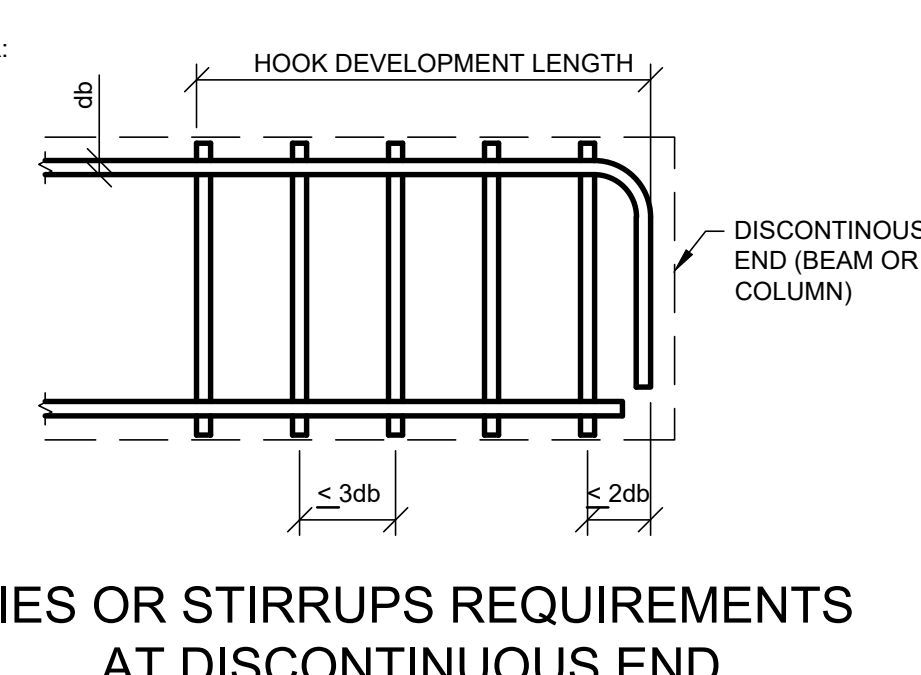


CORNER TIE HOOK
CROSS TIE

STIRRUP AND TIE HOOK SCHEDULE			
BAR SIZE	D (IN.)	90° HOOK A OR G (IN.)	135° HOOK A OR G (IN.)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2



2 STIRRUP AND TIE HOOK TYPES DETAIL
N.T.S.

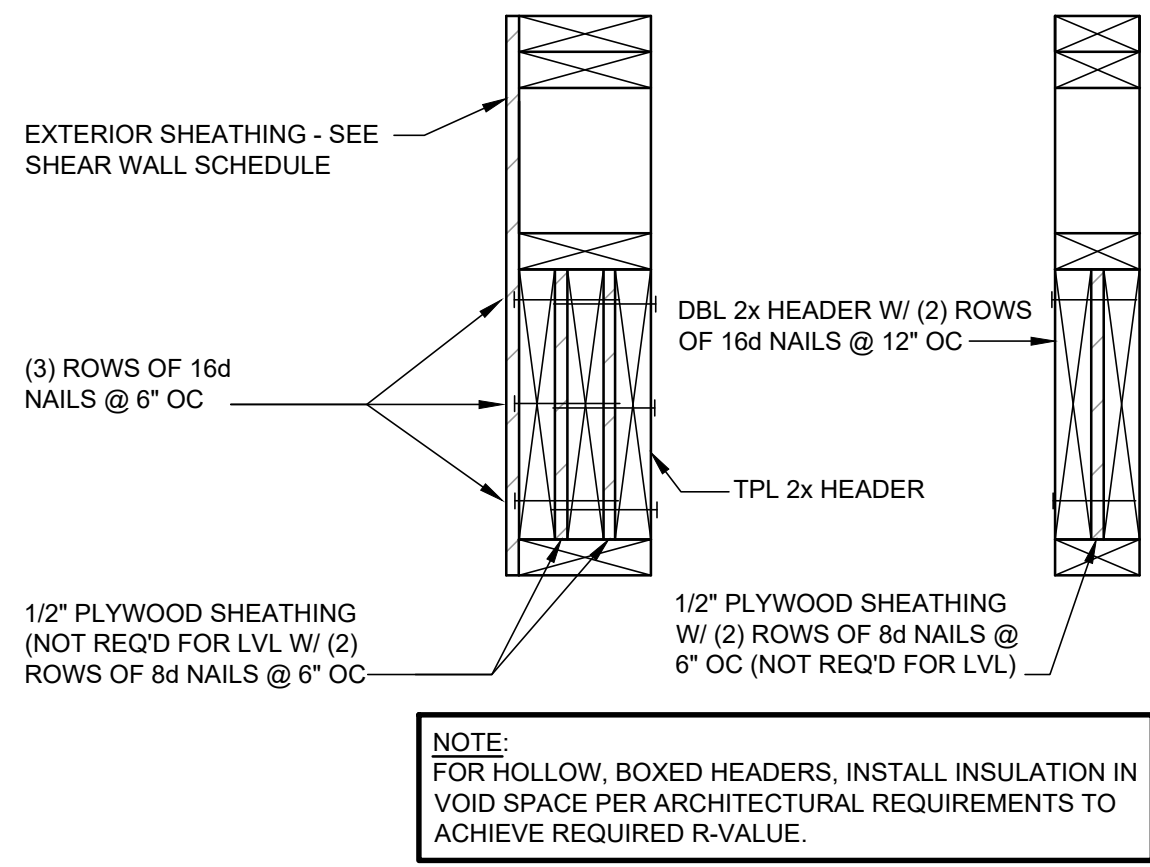


TIES OR STIRRUPS REQUIREMENTS AT DISCONTINUOUS END

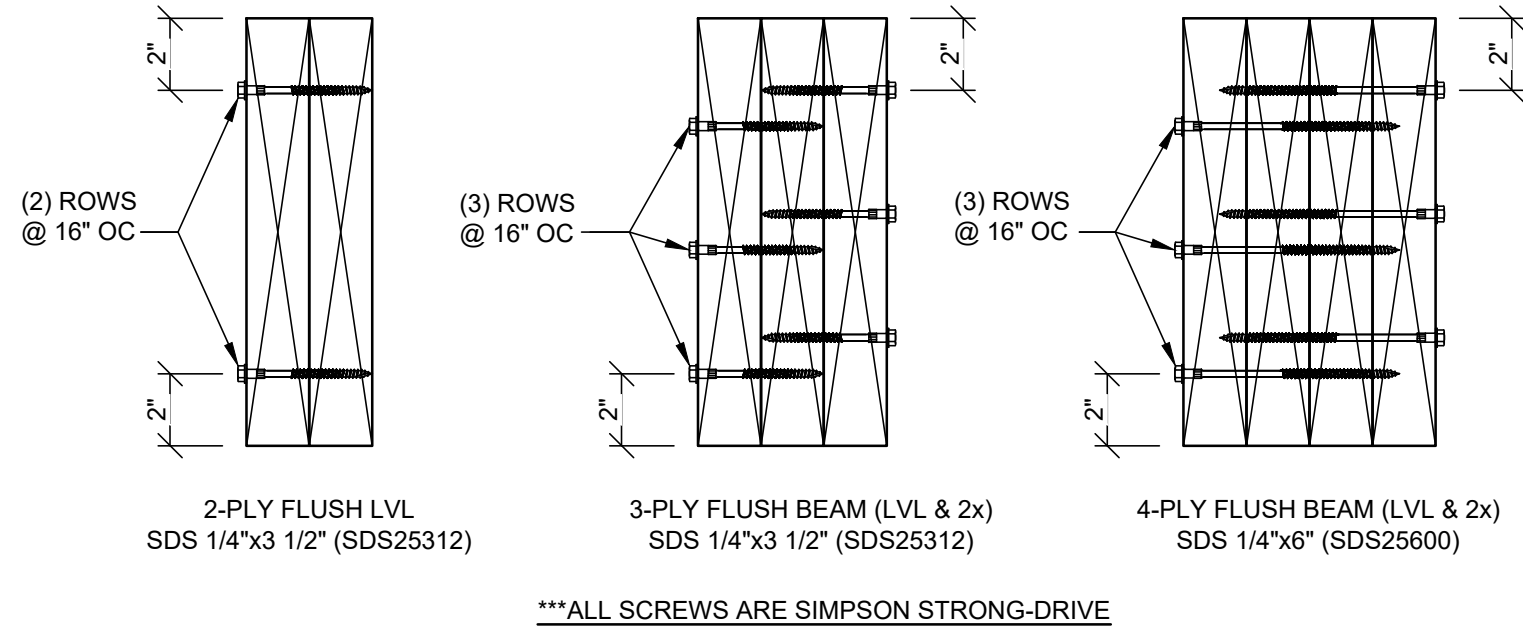
REINFORCING BAR LAP LENGTH SCHEDULE					
BAR NO.	3000 PSI	4000 PSI	5000 PSI	6000 PSI	7000 PSI
#3	16"	16"	16"	16"	16"
#4	19"	16"	16"	16"	16"
#5	23"	20"	17"	16"	16"
#6	26"	24"	21"	19"	17"
#7	43"	38"	34"	30"	29"
#8	55"	47"	42"	39"	36"
#9	67"	58"	52"	47"	45"
#10	82"	71"	64"	58"	54"
#11	98"	85"	76"	69"	64"

-VALUES ABOVE ARE FOR CLASS B SPLICE, GRADE 60 REINFORCEMENT, NWT CONCRETE.
-LENGTHS SHOWN CONFORM TO NON-SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS ENCLOSED BY PROPERLY SPACED TIES OR STIRRUPS.
-LENGTH IN TABLE SHALL BE FACTORED FOR THE FOLLOWING CONDITIONS:
1) HORIZONTAL BARS MORE THAN 12" ABOVE BOTTOM OF CAST MEMBER: 1.3xTABLE LENGTH
2) LIGHT WEIGHT CONCRETE: 1.3xTABLE LENGTH
3) BAR CLEAR SPACING LESS THAN ONE BAR DIAMETER AND/OR BAR CLEAR COVER LESS THAN ONE BAR DIAMETER: 1.5xTABLE LENGTH
4) EPOXY COATED BARS: 1.5xTABLE LENGTH
5) WHERE MORE THAN ONE CONDITION APPLIES, ALL APPLICABLE FACTORS SHALL BE APPLIED TO LENGTH INDICATED IN TABLE.

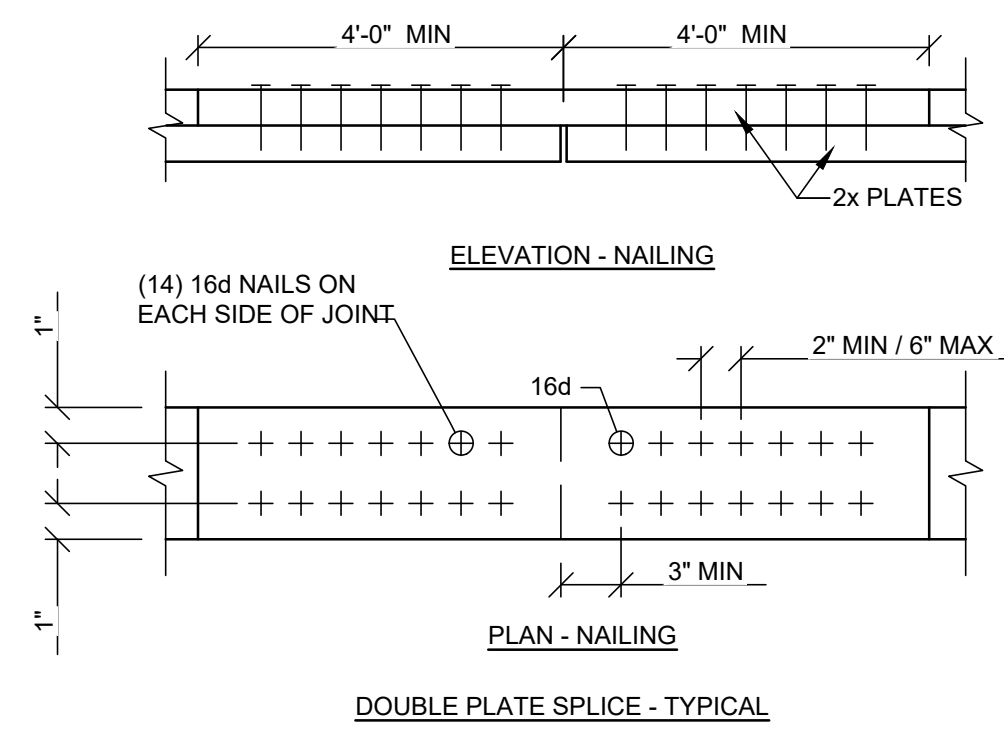
7 TYPICAL REBAR BEND DETAILS & REBAR LAP SPLICES
S2.0 NOT TO SCALE



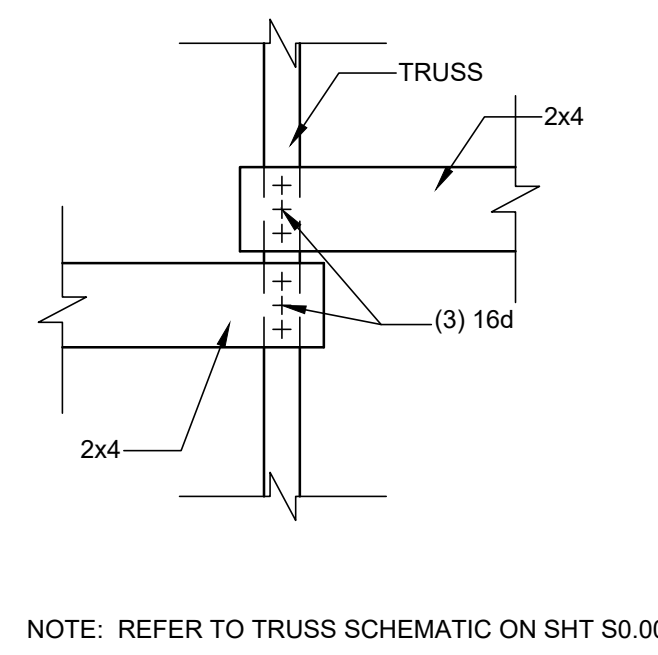
1
S2.1
N.T.S.
MULTI-PLY HEADER CONNX



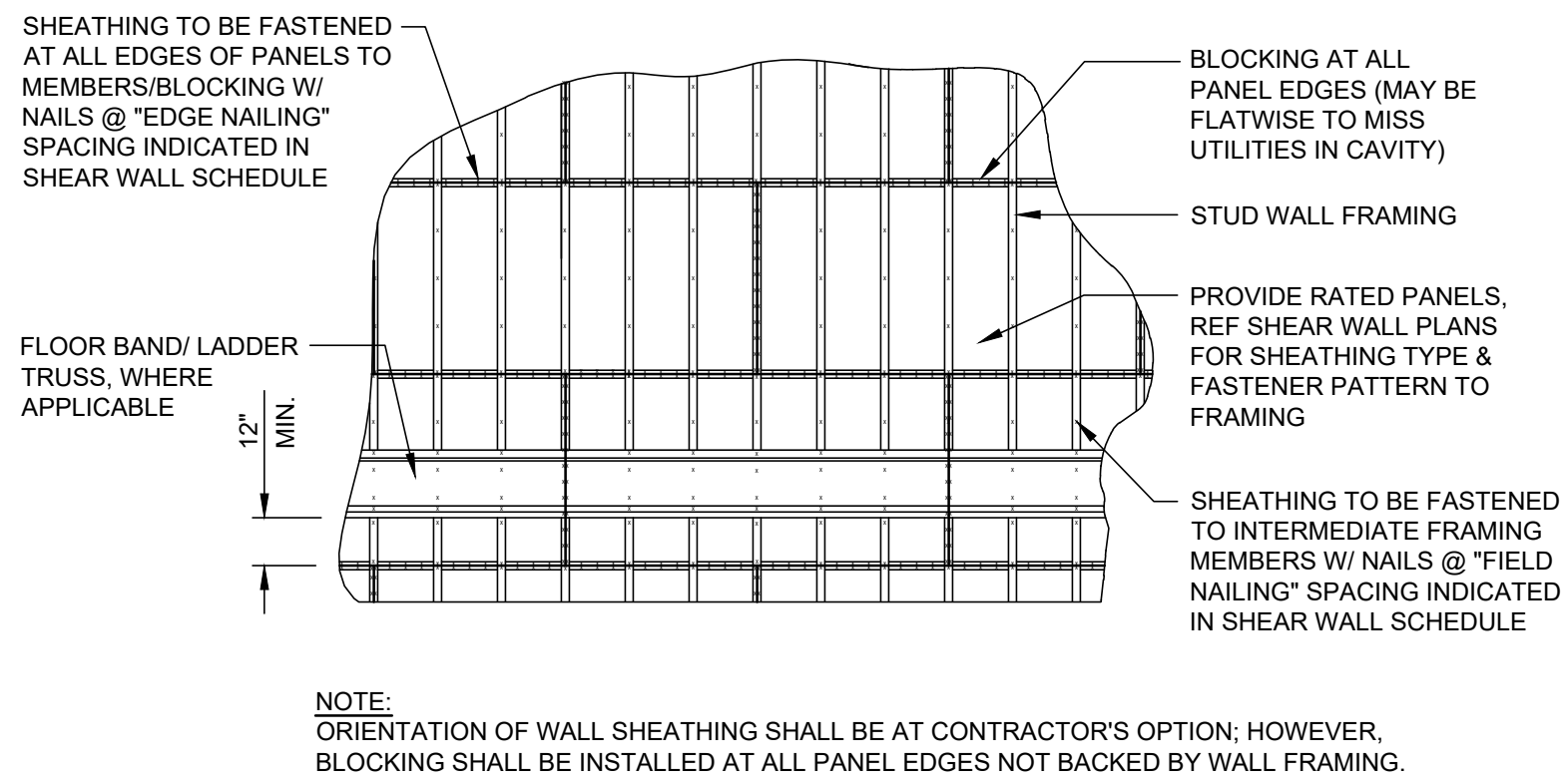
2
S2.1
N.T.S.
MULTI-PLY BEAM CONNX



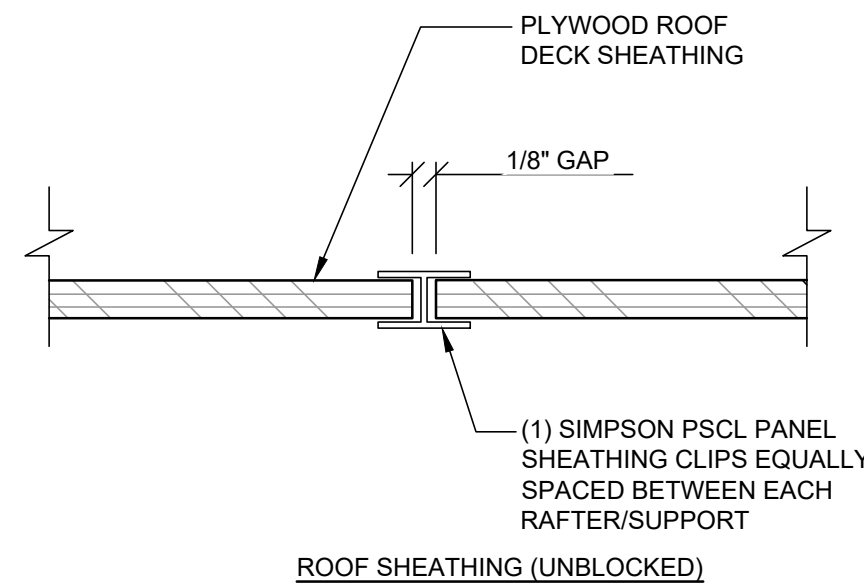
3
S2.1
N.T.S.
TYP TOP PLATE SLICE



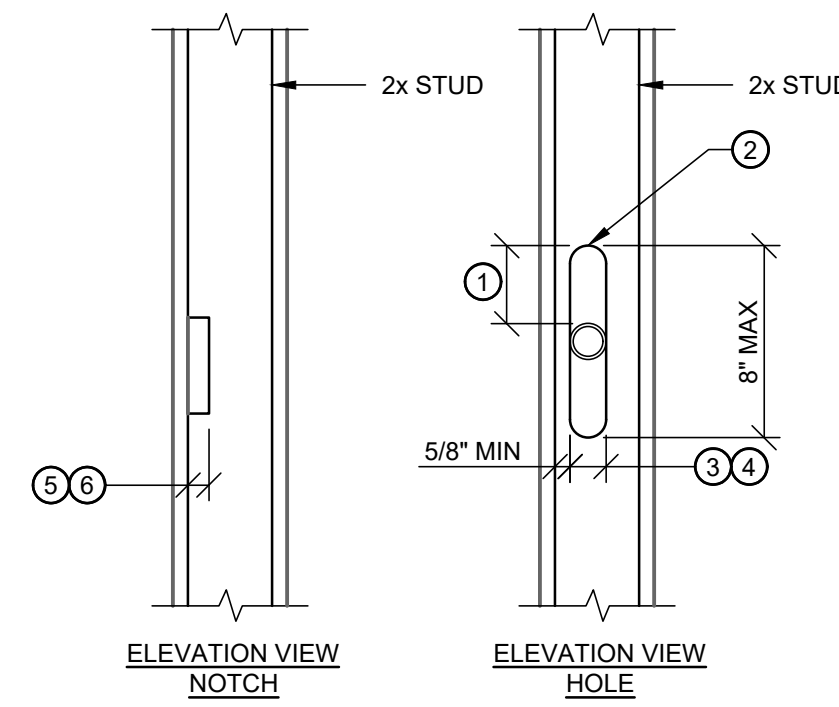
4
S2.1
3/4" = 1'-0"
TYP TRUSS BRIDGING LAP



5
S2.1
3/4" = 1'-0"
TYPICAL WALL SHEATHING ATTACHMENT

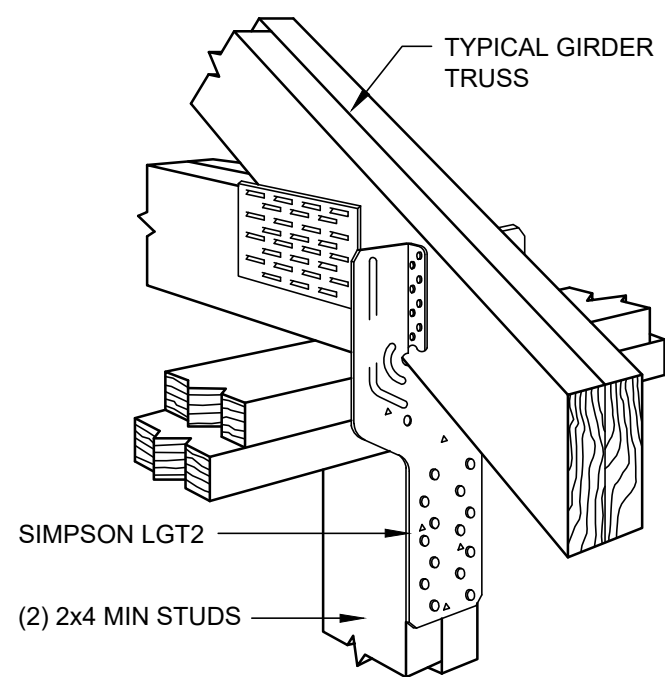


6
S2.1
N.T.S.
ROOF SHEATHING EDGE SUPPORTS



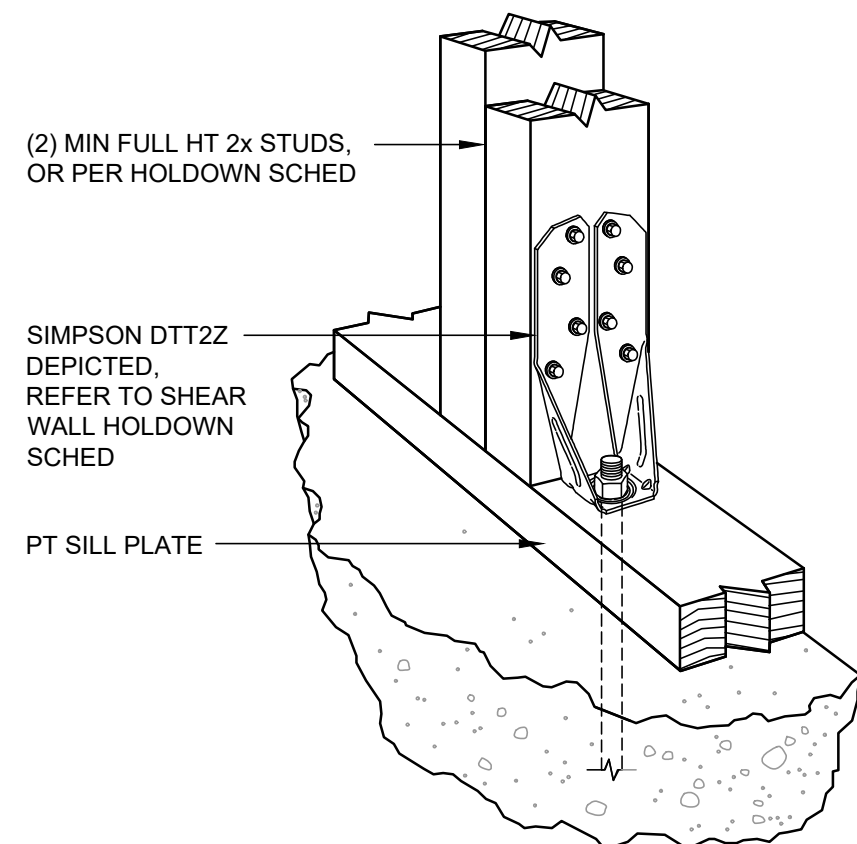
7
S2.1
1 1/2" = 1'-0"
REQUIREMENTS FOR HOLES/NOTCHES IN STUDS

- NOTES:**
- GAP REQUIRED ABOVE & BELOW FOR DIFFERENTIAL MOVEMENT. SEE GENERAL NOTES FOR ANTICIPATED SHRINKAGE OF WOOD STRUCTURE. CONSULT W/ MEP ENGINEER FOR ANTICIPATED MOVEMENT OF CONDUITS OR PIPES AND SELECTION OF APPROPRIATE FITTINGS.
 - OPENING IN WOOD STUD. MAKE TOP AND BOTTOM OF OPENING ROUNDED.
 - MAXIMUM HOLE WIDTHS (LOAD BEARING STUDS & EXTERIOR WALLS):
 - 2x4 STUD = 1 3/8" MAX (1"Ø PIPE - 1.315" OD)
 - 2x6 STUD = 2 3/8" MAX (2"Ø PIPE - 2.375" OD)
 - IF HOLE WIDTH MUST EXCEED DIMENSION ABOVE, THE STUD INDICATED ON PLAN SHOULD BE DOUBLED AT EACH CUT INSTANCE. THE MAXIMUM PERMISSIBLE OVERSIZED HOLES FOR EACH SIZE IS AS FOLLOWS: 2x4 = 2" MAX, 2x6 = 3 1/4" MAX.
 - MAXIMUM HOLE WIDTHS (NON-LOAD BEARING INTERIOR STUDS):
 - 2x4 STUD = 2" MAX
 - 2x6 STUD = 3 1/4" MAX
 - MAXIMUM NOTCH DEPTH (LOAD BEARING STUDS & EXTERIOR WALLS):
 - 2x4 STUD = 7/8" MAX
 - 2x6 STUD = 1 3/8" MAX
 - MAXIMUM NOTCH DEPTH (NON-LOAD BEARING INTERIOR STUDS):
 - 2x4 STUD = 1 3/8" MAX
 - 2x6 STUD = 2" MAX
 - HOLES SHALL NOT BE LOCATED IN THE SAME SECTIONS AS A CUT OR NOTCH.
 - AT CONTRACTOR'S OPTION, SIMPSON STRONG-TIE STUD SHOES MAY BE UTILIZED TO REINFORCE STUDS CUT FOR PENETRATIONS. CONSULT WITH ENGINEER OF RECORD FOR COMPRESSION/TENSION LOADS IN STUDS PRIOR TO CUTTING STUDS AND FOR ASSISTANCE IN SELECTION OF CORRECT HARDWARE.

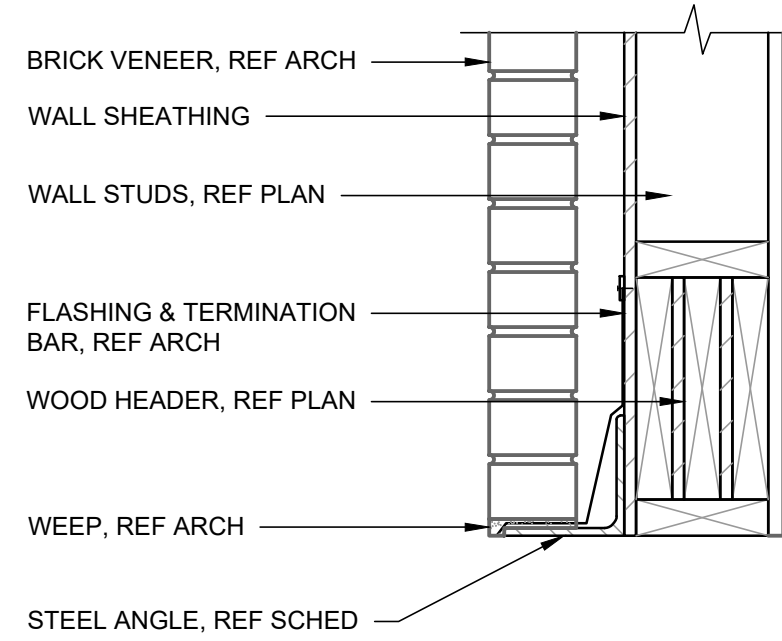


- NOTES:**
- FOR ASD UPLIFT LOADS OF 1,620 LBS, USE SIMPSON LGT2 W/ (2) 2x BEARING STUDS AND 2-PLY GIRDER TRUSS. (PICTURED ABOVE)
 - FOR ASD UPLIFT LOADS GREATER THAN 1,620 LBS AND LESS THAN 2,505 LBS, USE SIMPSON LGT3-SDS2.5 W/ (3) 2x BEARING STUDS AND 3-PLY GIRDER TRUSS.
 - FOR ASD UPLIFT LOADS GREATER THAN 2,505 LBS AND LESS THAN 2,920 LBS, USE SIMPSON LGT4-SDS3 W/ (4) 2x BEARING STUDS AND 4-PLY GIRDER TRUSS.
 - TRUSS SUPPLIER AND GENERAL CONTRACTOR TO SUGGEST PREFERRED METHOD FOR RESISTING UPLIFT FORCES IN EXCESS OF THOSE LISTED ABOVE AND COORDINATE DETAILS WITH EOR.

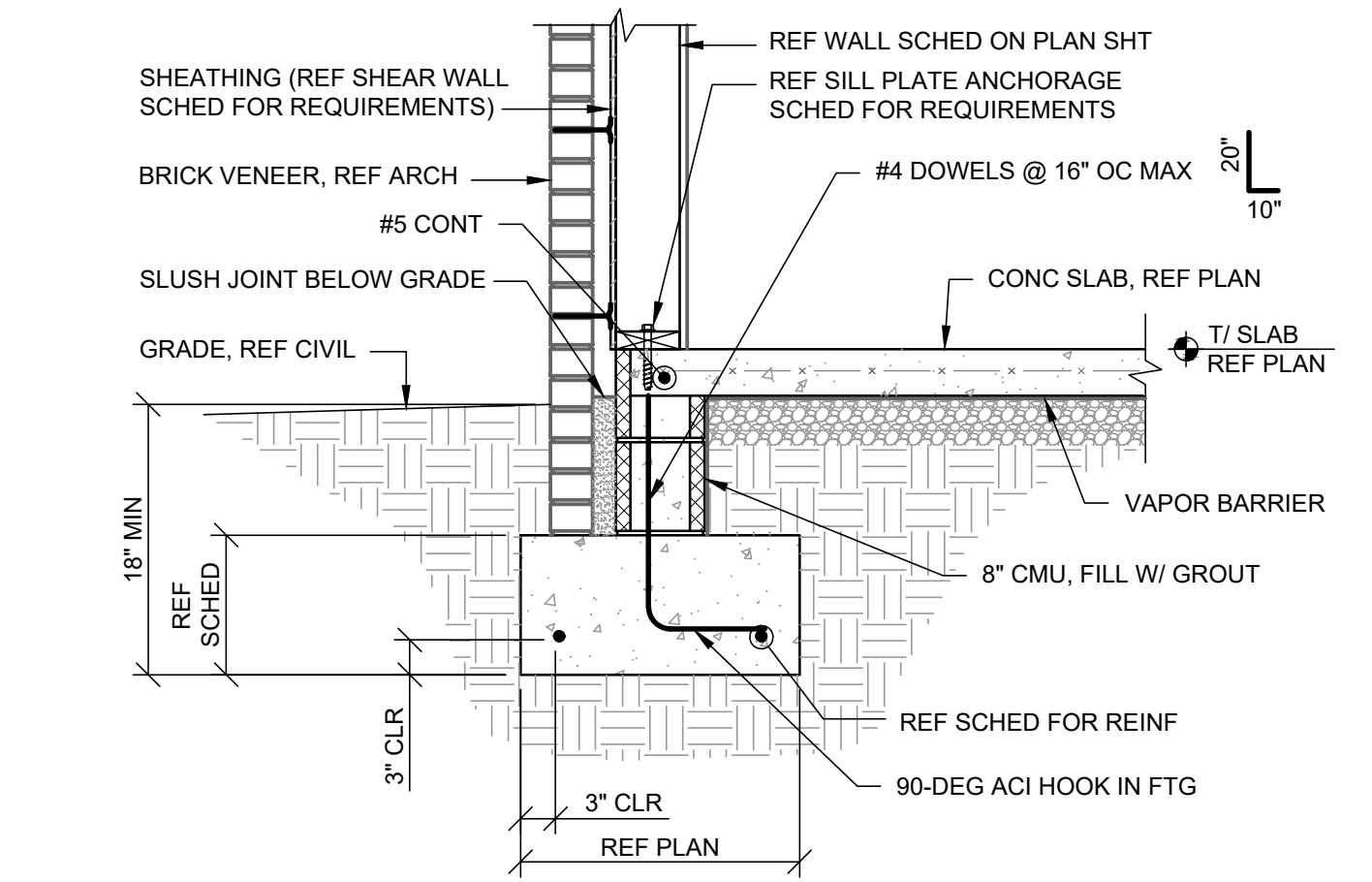
8
S2.1
N.T.S.
ROOF GIRDER TRUSS HOLDOWN



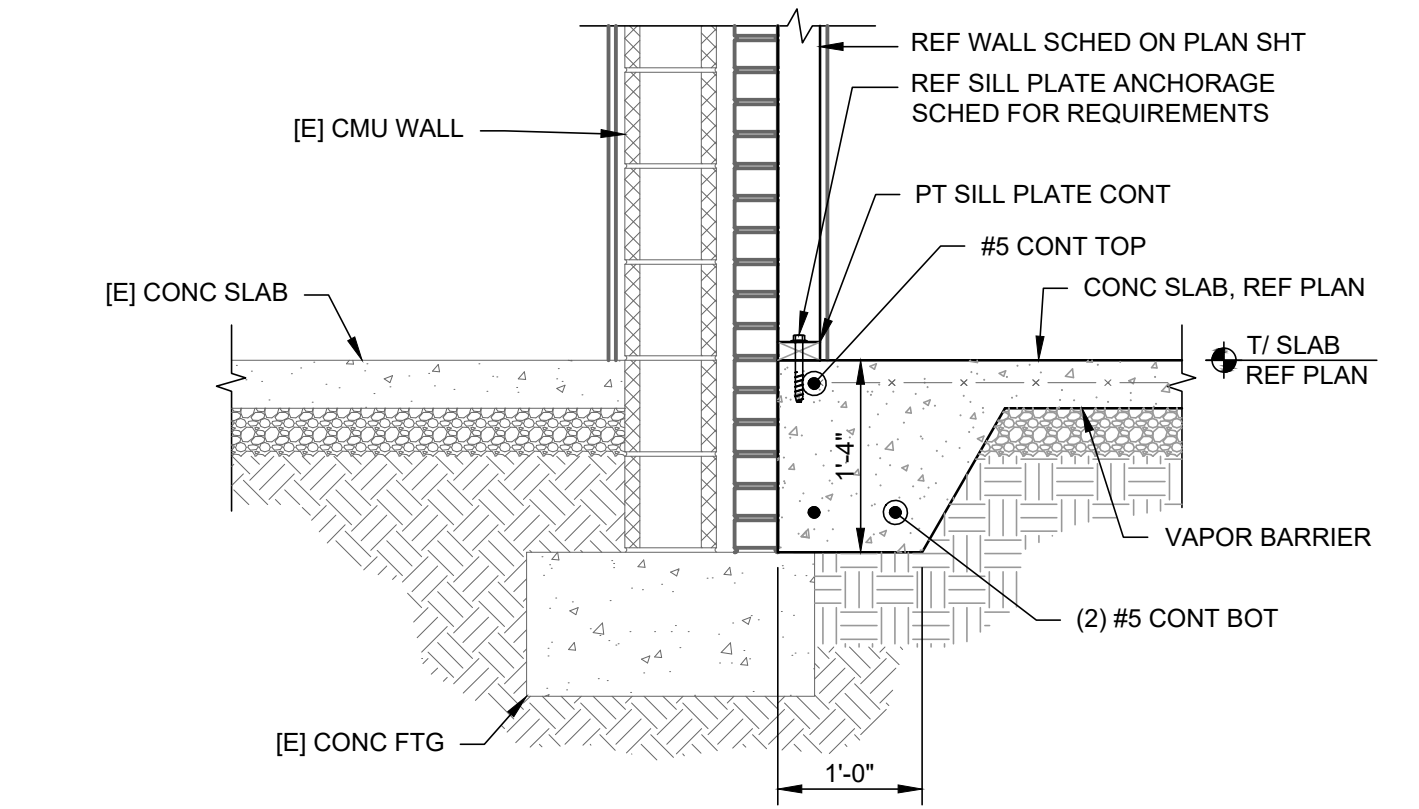
9
S2.1
N.T.S.
TYP SHEAR WALL HOLDOWN



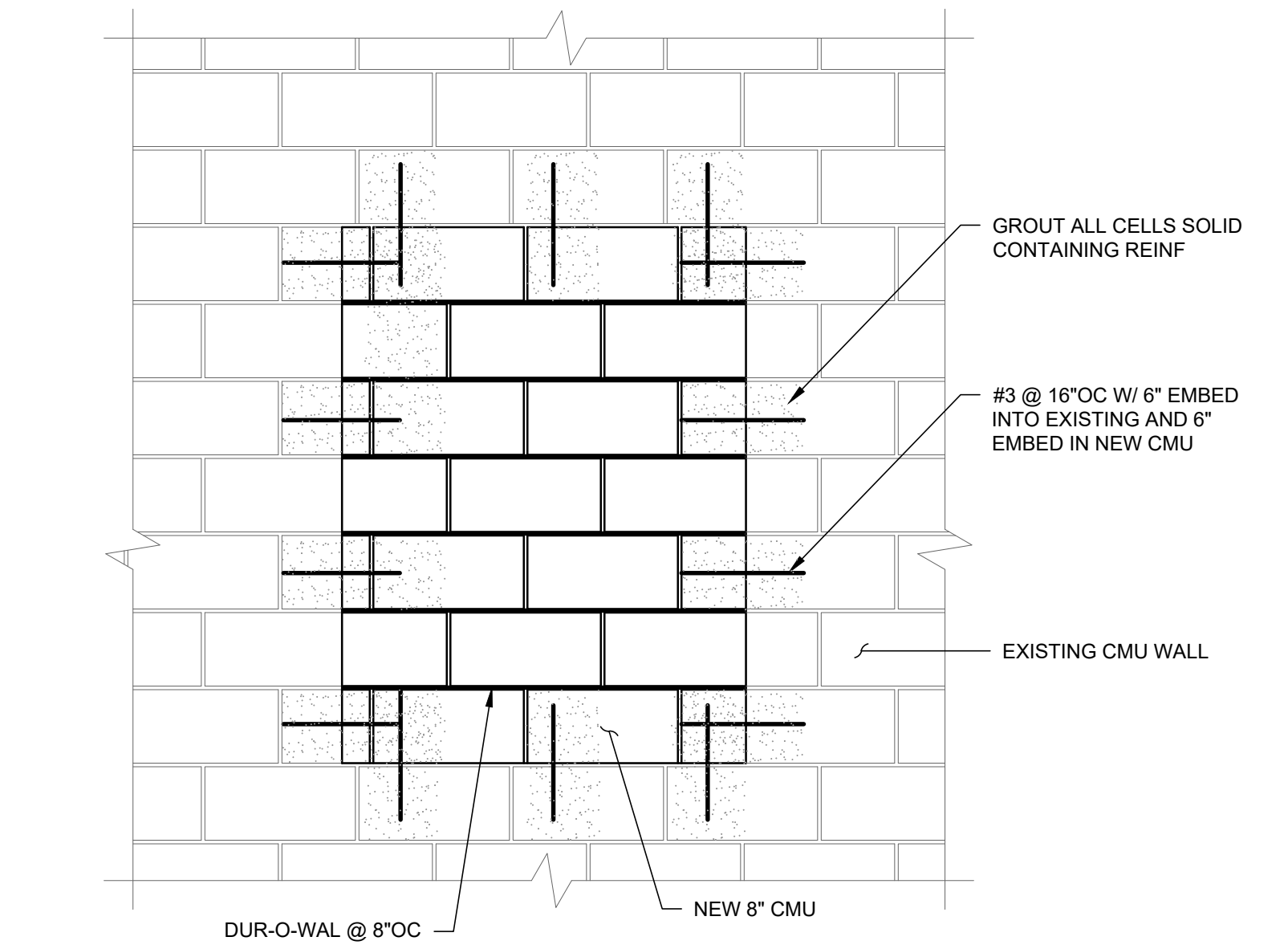
10
S2.1
1 1/2" = 1'-0"
TYPICAL LOOSE LINTEL SECTION



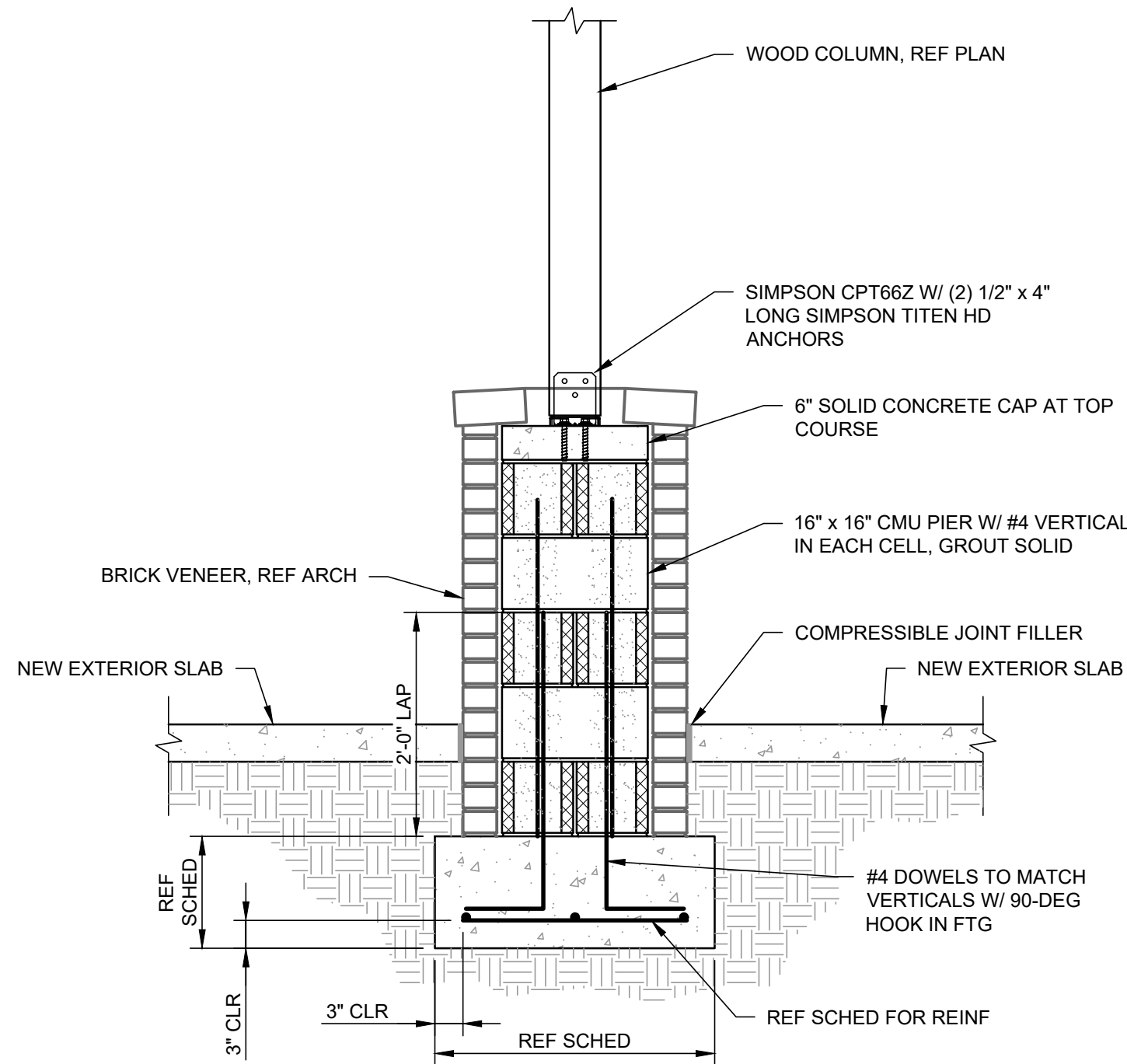
1
S3.0
SECTION
3/4" = 1'-0"



2
S3.0
SECTION
3/4" = 1'-0"



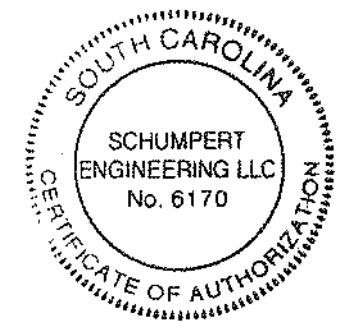
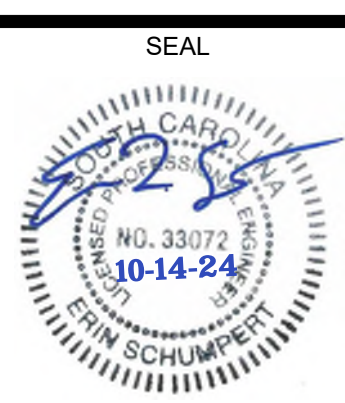
3
S3.0
EXISTING CMU INFILL DETAIL
3/4" = 1'-0"



4
S3.0
SECTION
3/4" = 1'-0"



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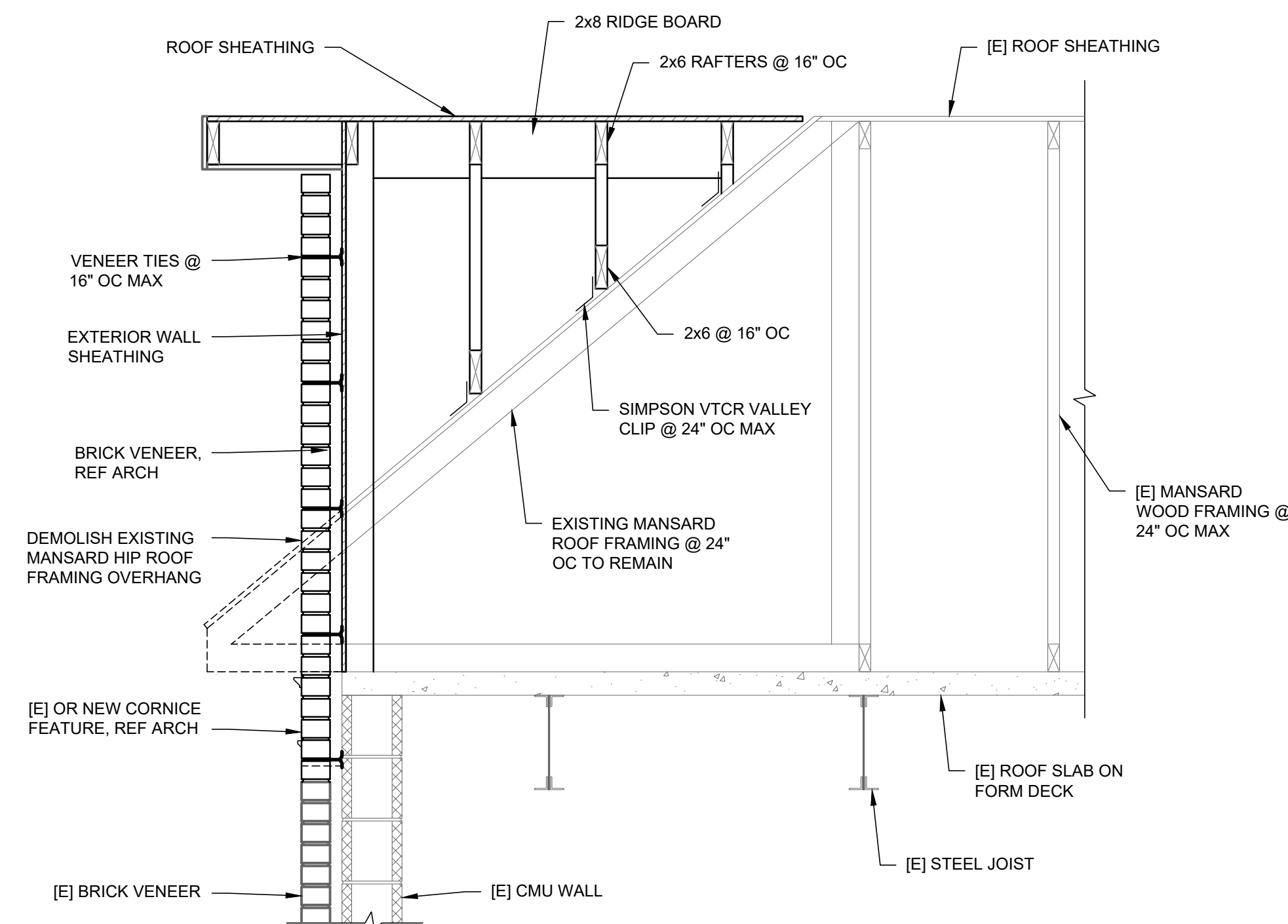
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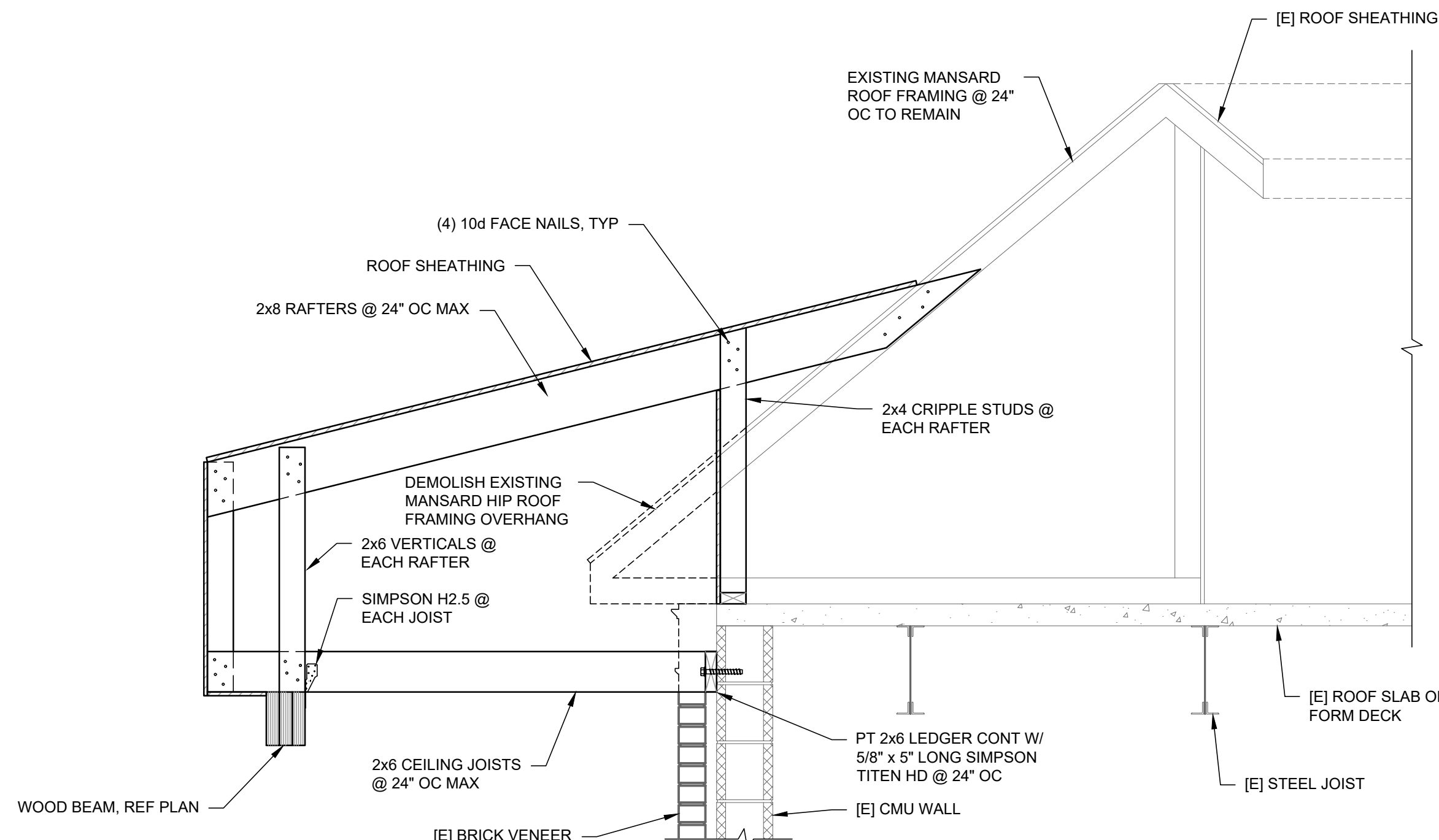
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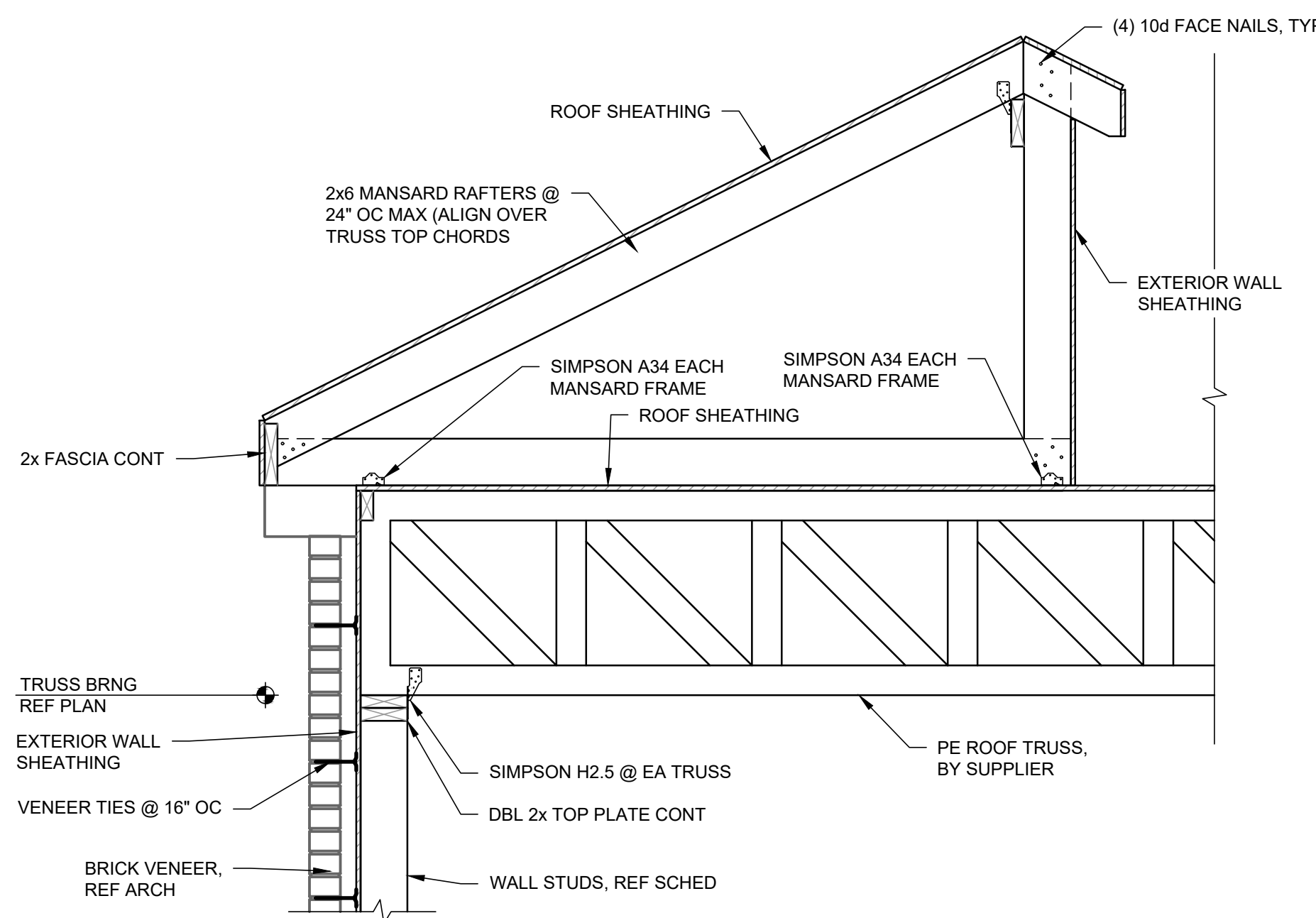
S3.0



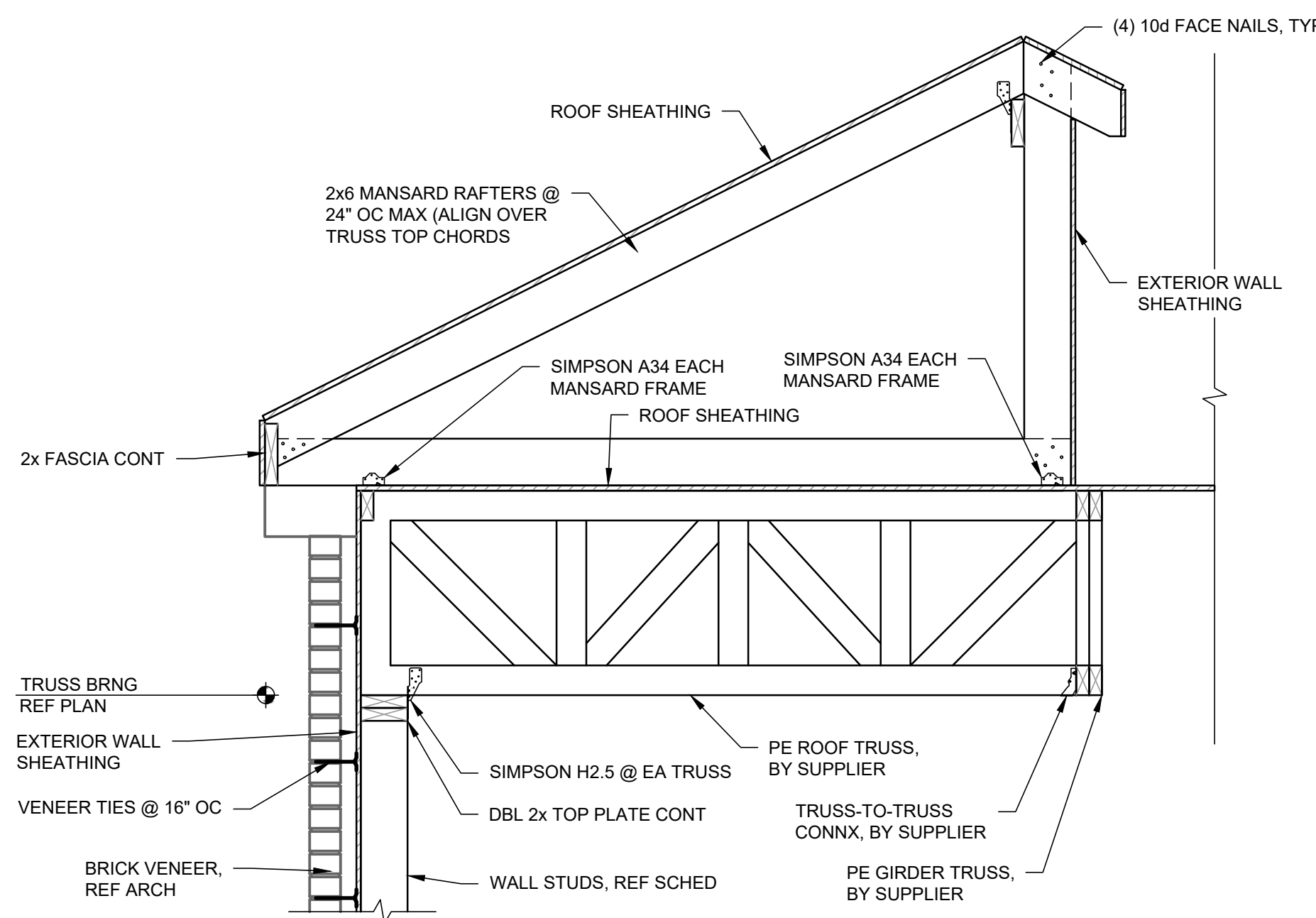
1 SECTION
S3.1 3/4" = 1'-0"



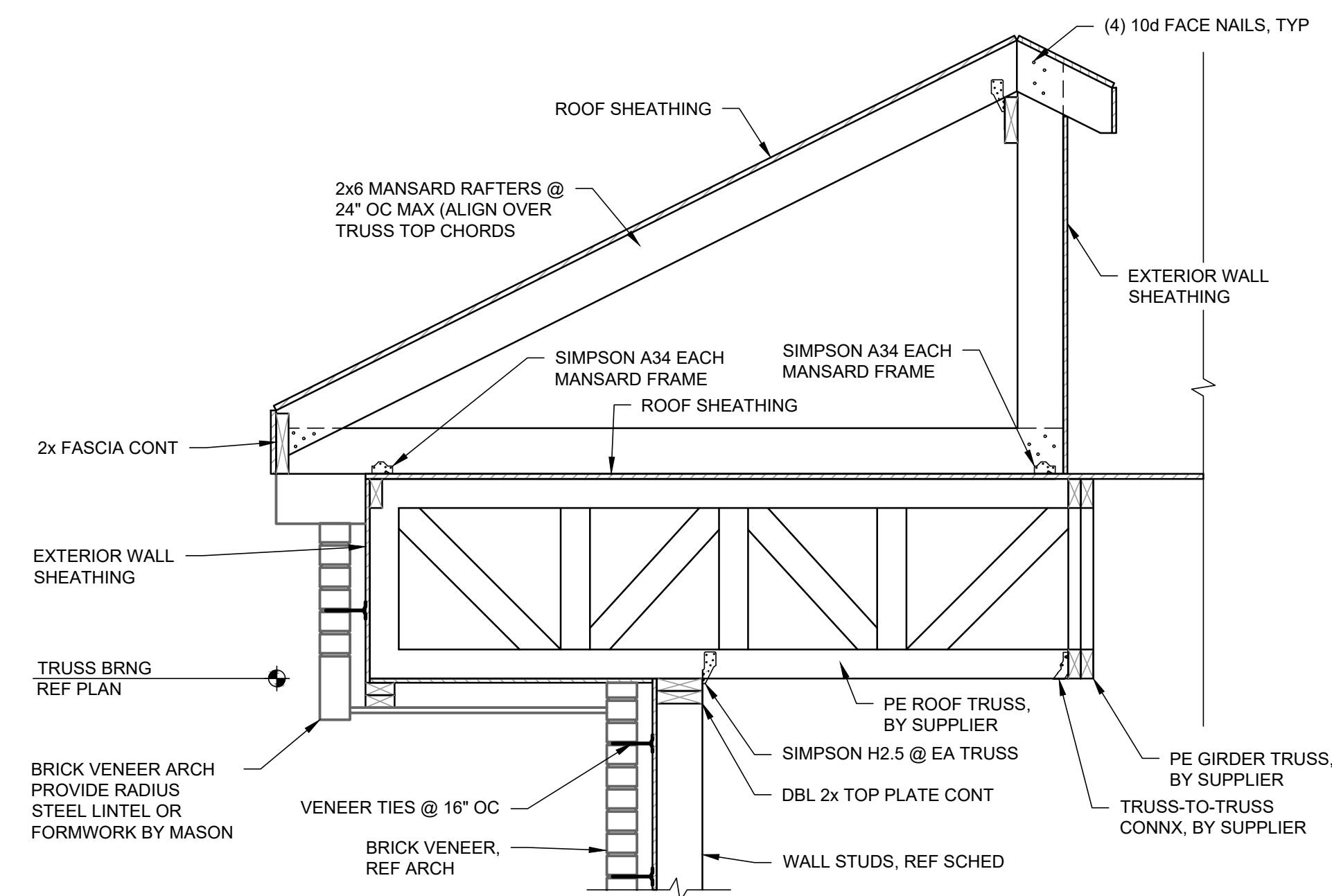
2 SECTION
S3.1 3/4" = 1'-0"



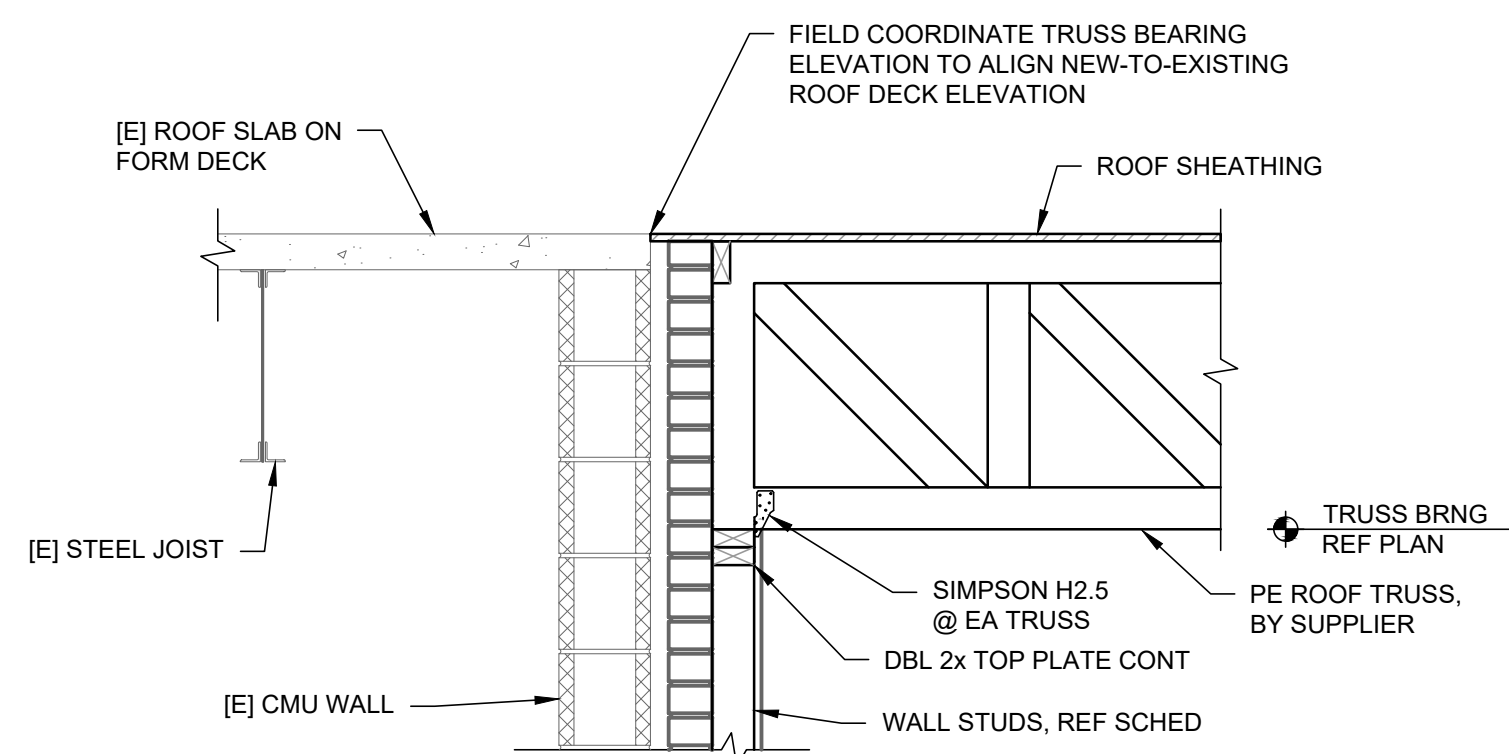
3 SECTION
S3.1 3/4" = 1'-0"



4 SECTION
S3.1 3/4" = 1'-0"



5 SECTION
S3.1 3/4" = 1'-0"



6 SECTION
S3.1 3/4" = 1'-0"

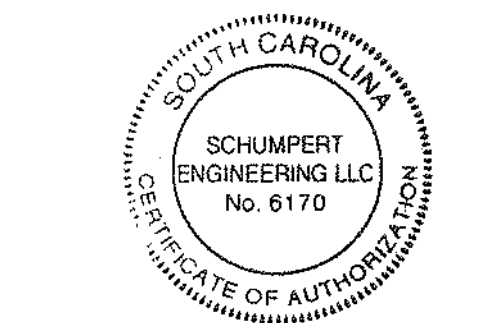


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PROJECT DATA
3,810 SQ. FT.
PROJECT NUMBER
24124
ISSUE DATE
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EDGEFIELD COUNTY
FINANCE & HR OFFICE

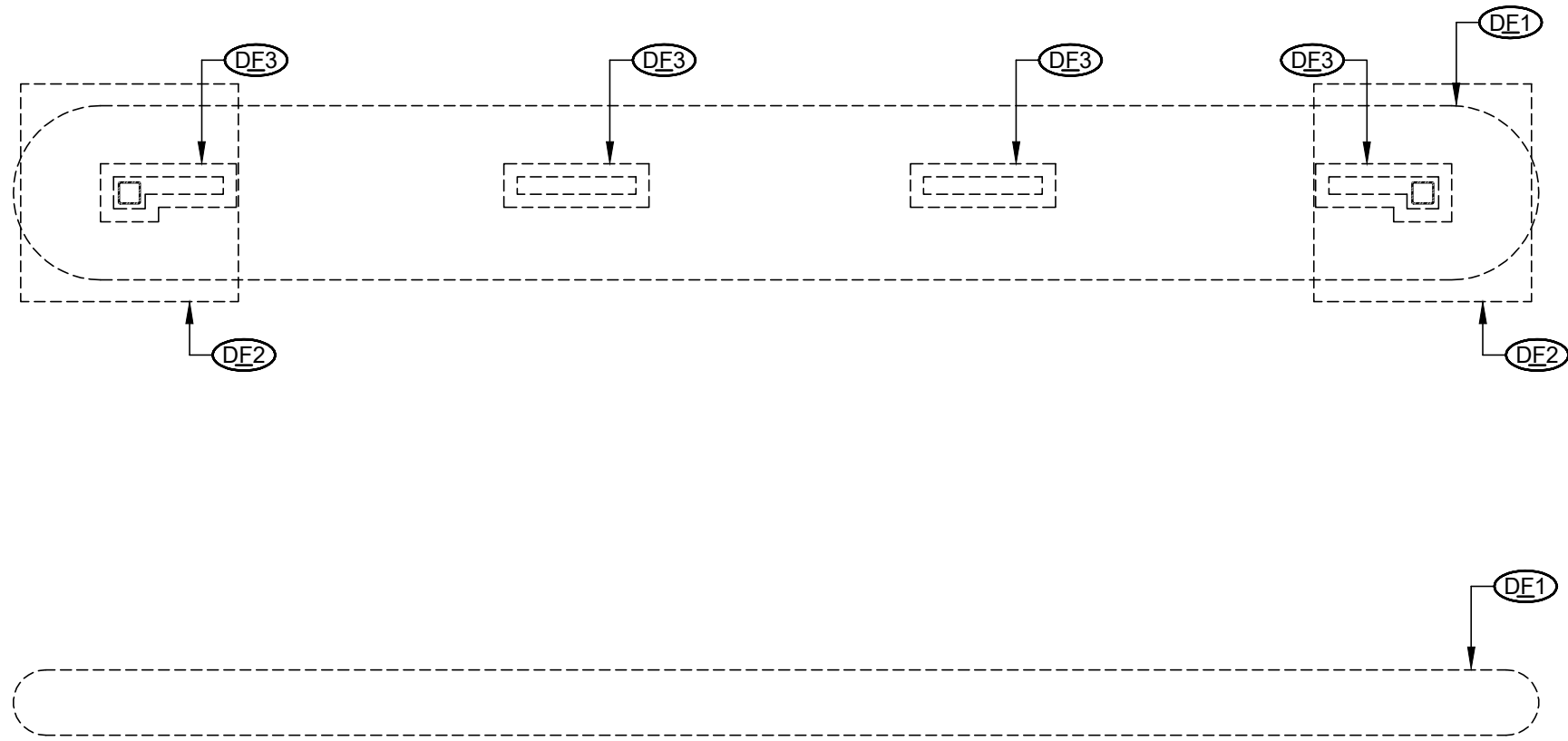
SECTIONS

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S3.1

NOTE REGARDING EXISTING CONSTRUCTION

THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.



KEY NOTES - DEMO	
DF1	EXISTING CONCRETE CURB TO BE DEMOLISHED.
DF2	EXISTING STEEL COLUMN AND CONCRETE FOOTING TO BE DEMOLISHED.
DF3	EXISTING BRICK PILASTERS AND ARCHES TO BE DEMOLISHED.
DF4	EXISTING INTERIOR, NON-STRUCTURAL PARTITIONS TO BE DEMOLISHED, COORDINATE WITH ARCHITECTURAL.

N

4

REFERENCE

FOUNDATION PLAN - DEMO

1/4" = 1'-0"
T/SLAB ELEVATION = +0'-0"
T/FTG ELEVATION = -1'-4", FIELD VERIFY

- DO NOT SCALE DRAWINGS

- REFERENCE A-DWGS FOR ALL DIMENSIONS NOT ON PLAN

- DIMENSIONS ARE TO CENTERLINE OF COLUMN OR EDGE OF SLAB

DENOTES KEY NOTE, REF SCHEDULE ON THIS SHEET

[E] DENOTES EXISTING STRUCTURAL ELEMENT, FIELD VERIFY

F.V. DENOTES "FIELD VERIFY"

---- DENOTES EXISTING ELEMENTS TO BE DEMOLISHED

— DENOTES EXISTING ELEMENTS TO REMAIN

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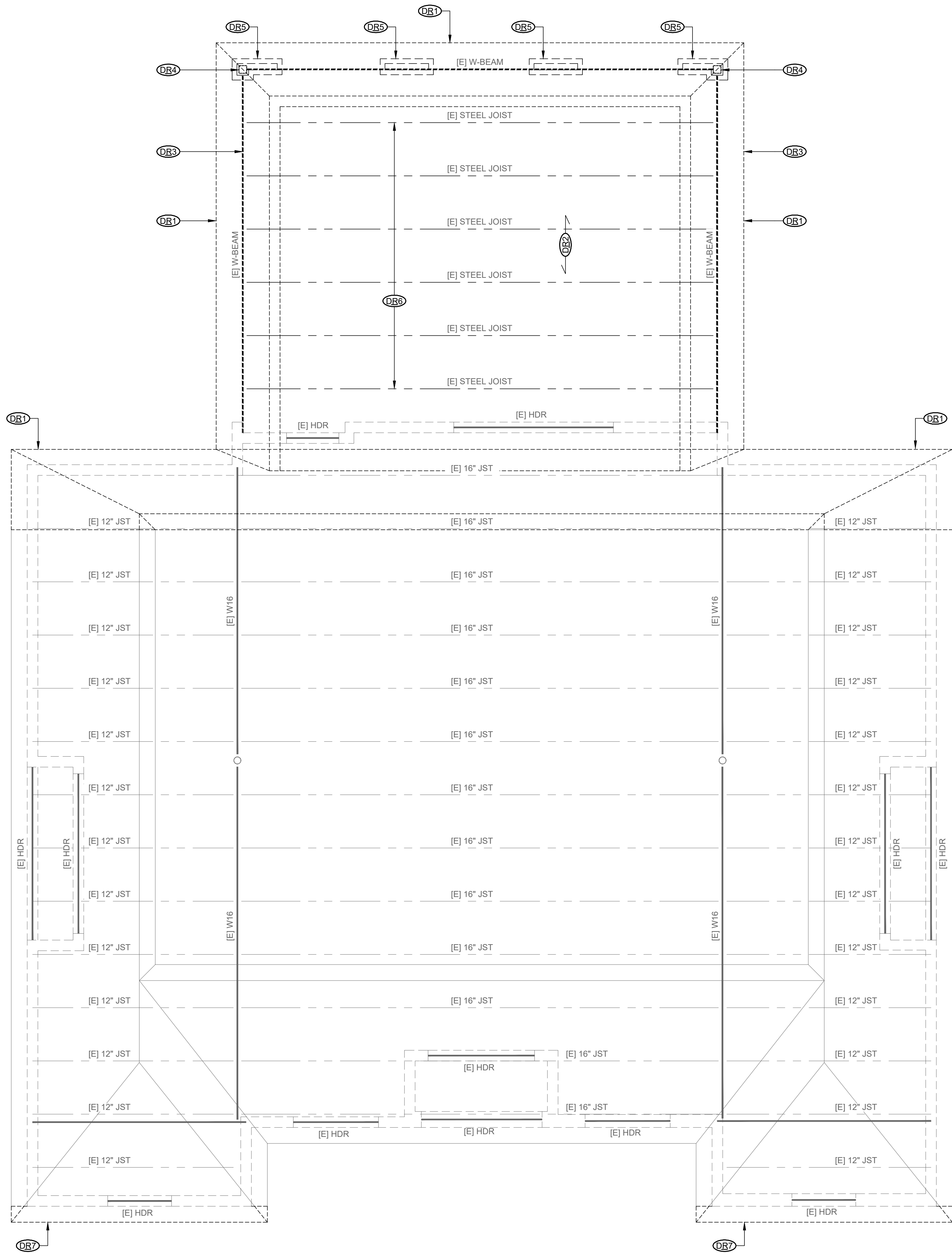
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FOUNDATION
PLAN - DEMO

SD1.0

NOTE REGARDING EXISTING CONSTRUCTION

THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.



KEY NOTES - DEMO

DR1	EXISTING PLYWOOD SHEATHING AND MANSARD OVERBUILT FRAMING TO BE DEMOLISHED.
DR2	EXISTING ROOF DECK TO BE DEMOLISHED.
DR3	EXISTING STEEL BEAM TO BE DEMOLISHED.
DR4	EXISTING STEEL COLUMN TO BE DEMOLISHED.
DR5	EXISTING MASONRY WRAPS AND ARCHES TO BE DEMOLISHED.
DR6	EXISTING STEEL JOISTS TO BE DEMOLISHED.
DR7	EXISTING WOOD MANSARD ROOF FRAMING TO BE DEMOLISHED TO ACCOMMODATE NEW GABLE ROOF FRAMING.

ROOF FRAMING PLAN - DEMO

1/4" = 1'-0"
T/STEEL (JST BRNG) ELEVATION = FIELD VERIFY

- DO NOT SCALE DRAWINGS
 - REFERENCE A-DWGS FOR ALL DIMENSIONS NOT ON PLAN
 - DIMENSIONS ARE TO CENTERLINE OF COLUMNS, UNO
- # DENOTES KEY NOTE, REF SCHEDULE ON THIS SHEET
- [E] DENOTES EXISTING STRUCTURAL ELEMENT, FIELD VERIFY
- F.V. DENOTES "FIELD VERIFY"
- DENOTES EXISTING ELEMENTS TO BE DEMOLISHED
- DENOTES EXISTING ELEMENTS TO REMAIN

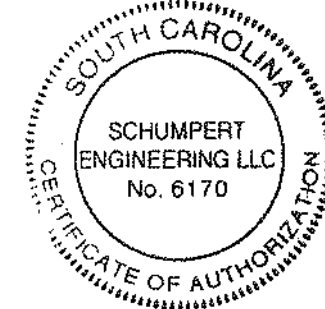


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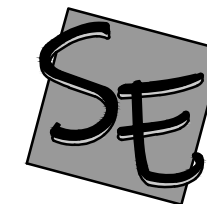
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ROOF FRAMING PLAN - DEMO



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Form F3 – Building Code Analysis

	<input type="checkbox"/> Option 3: Performance Compliance Method (Ch. 3, 13)	<input type="checkbox"/> Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:		
Existing Sprinkler System?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Existing Fire Alarm System?	<input type="checkbox"/> Manual <input type="checkbox"/> Auto	<input type="checkbox"/> Manual <input type="checkbox"/> Auto
Seismic Evaluation Required?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Change of Occupancy:	<input type="checkbox"/> YES <input type="checkbox"/> NO Existing Occupancy Classification(s): New Occupancy Classification(s):	<input type="checkbox"/> YES <input type="checkbox"/> NO Existing Occupancy Classification(s): New Occupancy Classification(s):
Historic Building:	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction

SUMMARY - BUILDING DESIGN OCCUPANT LOAD				
DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	
1 st FLOOR	1,325 Sq Ft	2,518 Sq Ft		
2 nd FLOOR				
3 rd FLOOR				
4 th FLOOR				
TOTAL:	0	0	0	

te: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan. **Double Click to Edit Table.**

Form F3 – Building Code Analysis

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check only one Option and all items that apply under that Option.)	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building <input type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input checked="" type="checkbox"/> Additions <input type="checkbox"/> Historic Building Aggregate area of building: 3,843 SF Work area: SF 1,325	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building <input type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input checked="" type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building Aggregate area of building: 3,843 SF Work area: SF 2,518	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building <input type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building Aggregate area of building: SF Work area: SF
Original Building Code and Edition Applicable at the time of Construction:			
Existing Sprinkler System?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Existing Fire Alarm System?	<input type="checkbox"/> Manual <input type="checkbox"/> Auto	<input type="checkbox"/> Manual <input type="checkbox"/> Auto	<input type="checkbox"/> Manual <input type="checkbox"/> Auto
Seismic Evaluation Required?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

Form F3 – Building Code Analysis

Change of Occupancy:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Existing Occupancy Class(s): New Occupancy Classification(s):	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Existing Occupancy Class(s): New Occupancy Classification(s):	<input type="checkbox"/> YES <input type="checkbox"/> NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (Check only one Option and all items that apply under that Option.)	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building <input type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building Aggregate area of building: SF Work area: SF	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building <input type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building Aggregate area of building: SF Work area: SF

Form F3 – Building Code Analysis

Date: 11/07/24

SUBMITTAL:	<input type="checkbox"/> Schematic	<input type="checkbox"/> Design Development	<input checked="" type="checkbox"/> Construction Document
------------	------------------------------------	---------------------------------------------	-----------------------------------------------------------

SC CODE EDITION:	2021	ICC CODE EDITION:	2021	ICC A117.1 EDITION:	2017	OSF GUIDE EDITION:	2023
OTHER CODES/STANDARDS & EDITIONS: 2021 IFC, 2021 IMC, 2021 IPC, 2009 SC ENERGY CONSERVATION CODE, 2020 SC ELECTRIC CODE							

PROJECT DESCRIPTION: [Brief Scope of Work & Include project delivery method (i.e. CMR, etc.)]
ADDITION TO EXISTING HR AND FINANCE BUILDING

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
	-	<input checked="" type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC
CONSTRUCTION CLASSIFICATION TYPE	Section 602	VB	VB			
OCCUPANCY GROUP (indicate all)	Section 302	BUSINESS	BUSINESS			
MOST RESTRICTIVE OCCUPANCY GROUP	Tables 504.3, 504.4 & 506.2	BUSINESS	BUSINESS			
Does building require Incidental Use Area Separation?	Table 509	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Does building have Accessory Occupancy (ies)?	Section 508.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
What is the aggregate square footage of the accessory occupancy (ies)?	Section 508.2	N/A SF	N/A SF	SF	SF	SF
What percent of the story is the aggregate of the accessory occupancy (ies)?	Section 508.2	N/A %	N/A %	%	%	%
Mixed Occupancy	Section 508	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> Nonseparated <input type="checkbox"/> Separated	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> Nonseparated <input type="checkbox"/> Separated	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Nonseparated <input type="checkbox"/> Separated	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Nonseparated <input type="checkbox"/> Separated	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Nonseparated <input type="checkbox"/> Separated



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REV1 12-03-24

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3,810 SQ. FT.

PROJECT NUMBER

24124

ISSUE DATE

10-16-24

EDGEFIELD COUNTY
FINANCE & HR OFFICE

A0.1

FORM F3

Form F3 – Building Code Analysis

BUILDING HEIGHT							
DESIGNATED AREAS OF BUILDING	Building Code	Area 1		Area 2		Area 3	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3	15'-6"	40'-0"	15'-6"	40'-0"		
In Stories	Table 504.4	1	2	1	2		

Note: Allowable Building Height & Number of Stories Above Grade Plane

BUILDING HEIGHT					
DESIGNATED AREAS OF BUILDING	Building Code	Area 4		Area 5	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3				
In Stories	Table 504.4				

Note: Allowable Building Height & Number of Stories Above Grade Plane

Form F3 – Building Code Analysis

A _t Tabular allowable area factor (NS, S1, S13R or SM as applicable) in accordance with IBC Table 506.2	A _t = 9,000 SF	A _t = SF	A _t = SF	A _t = SF	A _t = SF
Allowable Area Increase (Equations 5-1 through 5-5, as applicable)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
IBC Section 506.3.2 Equation 5-4 where: W = (L ₁ x w ₁ + L ₂ x w ₂ + L ₃ x w ₃ +...) / F W = Width of public way or open space L _n Length of a portion of the exterior perimeter wall. w _n Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall. F Building perimeter that fronts on a public way or open space having a width of 20 feet or more	L _n = w _n = W = F =	L _n = w _n = W = F =	L _n = w _n = W = F =	L _n = w _n = W = F =	L _n = w _n = W = F =
IBC Section 506.3.3 Equation 5-5 where: I _f = [F/P - 0.25] W/30 I _f = Area factor increase factor due to frontage F Building perimeter that fronts on a public way or open space having a width of 20 feet or more. P Perimeter of entire building (feet). W Width of public way or open space in accordance with Equation 5-4	P = I _f =	P = I _f =	P = I _f =	P = I _f =	P = I _f =

Form F3 – Building Code Analysis

Allowable building area per story in square feet as calculated by Equations 5-1 through 5-3. (Indicated equation used.) <input type="checkbox"/> IBC Section 506.2.1 Equation 5-1 A _a = A _t + (N _s x I _f) <input type="checkbox"/> IBC Section 506.2.3 Equation 5-2 A _a = [A _t + (N _s x I _f)] x S _a <input type="checkbox"/> IBC Section 506.2.4 Equation 5-3 A _a = [A _t + (N _s x I _f)] N _s Tabular allowable area factor in accordance with Table 506.2 for a non-sprinklered building (regardless of whether the building is sprinklered) S _a Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with SCBC Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).	N _s = S _a = A _a = SF	N _s = S _a = A _a = SF	N _s = S _a = A _a = SF	N _s = S _a = A _a = SF	N _s = S _a = A _a = SF
MAXIMUM AREA PER STORY	SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)	SF	SF	SF	SF	SF

Form F3 – Building Code Analysis

ALLOWABLE BUILDING AREA					
DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5



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12/03/2024

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GREENVILLE, SC 29605
B84033
REGISTERED ARCHITECTS

Edgefield County SCHOOL DISTRICT

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△ REV 1 12-03-24

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10-16-24

EDGEFIELD COUNTY
FINANCE & HR OFFICE

A0.2
FORM F3

SHEET ADDED
TO SET IN REV 1

Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Nonbearing Walls and Partitions, Exterior	As Required, Hrs	Table 602					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Floor Construction and associated secondary members	As Required, Hrs	Table 601					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Roof Construction and associated secondary members	As Required, Hrs	Table 601					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Walls	As Required, Hrs	Section 706					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

Form F3 – Building Code Analysis

GENERAL FIRE PROTECTION REQUIREMENTS						
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
SEPARATIONS						
Fire Wall Required	Section 706	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Barrier Required	Section 707	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> NO <input type="checkbox"/> YES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Partition Required	Section 708	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Barriers Required	Section 709	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Partitions Required	Section 710	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fireblocking	Section 718.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Draftstopping	Sections 718.3 & 718.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
ALARM & DETECTION						
Fire Alarm and Detection System	SCFC Section 907	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Alarm		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Mass Notification Emergency voice/alarm comm.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Emergency Alarm System Required	SCFC Section 908	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
SUPPRESSION						
Automatic Sprinkler System Provided Required	SCFC Section 903	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO

Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Primary Structural Frame	As Required, Hrs	Table 601	N/A	N/A			
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Exterior	As Required, Hrs	Table 601					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Interior	As Required, Hrs	Table 601					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Nonbearing Walls and Partitions, Interior	As Required, Hrs	Table 601					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

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PAGE 11

NTS

Form F3 – Building Code Analysis

GENERAL FIRE PROTECTION REQUIREMENTS						
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
SEPARATIONS						
Fire Wall Required	Section 706	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Barrier Required	Section 707	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> NO <input type="checkbox"/> YES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Partition Required	Section 708	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Barriers Required	Section 709	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Partitions Required	Section 710	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fireblocking	Section 718.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Draftstopping	Sections 718.3 & 718.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
ALARM & DETECTION						
Fire Alarm and Detection System	SCFC Section 907	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Alarm		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Mass Notification Emergency voice/alarm comm.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Emergency Alarm System Required	SCFC Section 908	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
SUPPRESSION						
Automatic Sprinkler System Provided Required	SCFC Section 903	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO



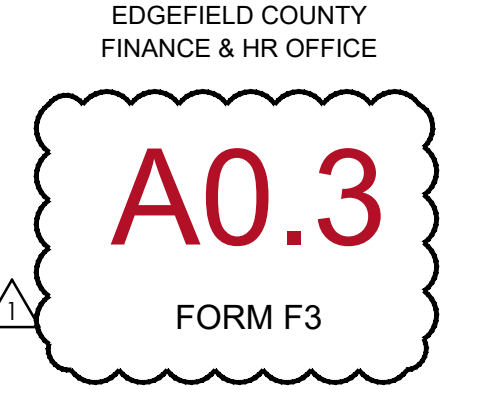
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ECSD OFFICE EXPANSION
425 LEE ST
JOHNSTON, SC 29832

REVISIONS
△ REV1 12-03-24

PROJECT DATA
3,810 SQ. FT.
PROJECT NUMBER
24124
ISSUE DATE
10-16-24



SHEET ADDED
TO SET IN REV 1

Form F3 – Building Code Analysis

Per IBC Chapter 16 and ASCE 7 – Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STRUCTURAL DESIGN INFORMATION, AREA								
		Building Code	Area 1		Area 2	Area 3	Area 4	Area 5
OCCUPANCY CATEGORY		Table 1604.5	-		-	-	-	-
LIVE LOAD FOR EACH CCUPANCY TYPE	Floor Live Load, F _{ll} (SLAB ON GRADE)	Figure 1608.2 or ASCE 7	100	PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R _{ll}		20	PSF	PSF	PSF	PSF	PSF
	Ground Snow Load, p _g		10	PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)		ASCE 7	N/A	PSF	PSF	PSF	PSF	PSF

Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Horizontal Assemblies	As Required, Hrs	Section 711					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Shaft Enclosures	As Required, Hrs	Sections 712 & 713					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Opening & Protective Listing by Category (fire shutters, doors, etc.)	As Required, Hrs	Section 716					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Others (as required by Designer)	As Required, Hrs						
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

Form F3 – Building Code Analysis

FLOOD HAZARD INFORMATION and FLOOD LOADS

FLOOD HAZARD AREA

N/A

Base Flood Elevation (NGVD or FIRM)

MSL

Design Flood Elevation SCBC 1612.3 and ASCE 24

MSL

NON HIGH-VELOCITY WAVE ACTION

N/A

Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1)

MSL

Dry flood proofing ASCE 24

☐ no ☐ yes

HIGH-VELOCITY WAVE ACTION

N/A

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor

MSL

Flotation resistant (ASCE 24)

☐ no ☐ yes

Breakaway wallper (ASCE 24)

☐ no ☐ yes

FIRE SERVICE INFORMATION

N/A

Service Line Size

Inches

Fire Department Connection

Location

Backflow

Location

Type

Fire Hydrant Flow Test

Date

Flow

GPM

Residual

PSI

Static

PSI

ENERGY INFORMATION

INSULATION

Roof

Cavity

R 38

Continuous

R 0

Walls

Cavity

R 13

Continuous

R 0

Underslab

R 0

GLAZING (each type)

Window to wall ratio

North

% 18

East

% 13

South

% 22

West

% 12

Glass Type

U Factor

.65

SHG

.25

Summary of data from approved ASHRAE 90.1 compliance sheets.

Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Fire Barriers	As Required, Hrs	Section 707					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Partitions	As Required, Hrs	Section 708					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Barriers	As Required, Hrs	Section 709					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Partitions	As Required, Hrs	Section 710					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

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ARCHITECTURE

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SEAL

STATE OF SOUTH CAROLINA

DAVID NARRAMORE

NARRAMORE

GREENVILLE, SC

1402

REGISTERED ARCHITECT

12/03/2024

STATE OF SOUTH CAROLINA

NARRAMORE ASSOCIATES, A.L.A. ARCHITECTS, INC.

GREENVILLE, SC

B84033

REGISTERED ARCHITECTS

Edgefield County

SCHOOL DISTRICT

ECSD OFFICE EXPANSION

425 LEE ST

JOHNSTON, SC 29832

REVISIONS

△

REV1 12-03-24

PROJECT DATA

3,810 SQ. FT.

PROJECT NUMBER

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10-16-24

EDGEFIELD COUNTY

FINANCE & HR OFFICE

A0.4

FORM F3

SHEET ADDED TO SET IN REV 1

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION

GENERAL INFORMATION

Building Location

Johnston, SC

Climate Zone

3A

Outdoor Design Temperature

Summer

80 deg F DB

67 deg F WB

Winter

47 deg F DB

42.6 deg F WB

Indoor Design Temperature

Summer

69 deg F DB

70 % RH

Winter

69 deg F DB

70 % RH

OUTSIDE AIR

Occupied Minimum Outside Air

5 cfm per person

CO2 Demand Management

☒ no ☐ yes

Supervised Control System

☒ no ☐ yes

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical system:

3 ton roof top unit, 2 exhaust fans

ELECTRICAL INFORMATION

SERVICE TRANSFORMER

☒ By Utility

☐ By District

KVA Primary

Voltage/Phase

ELECTRICALSERVICE INFORMATION

Service Voltage/Phase

208/3

400 Amperes

Service Entrance Conductors Size

existing not available

n/a Qty per Phase

Total Connected Load

82 KVA

Estimated Maximum Demand

82 KVA

Available Fault Current in Symmetrical Amperes

n/a

Interrupting Capacity of Service Overcurrent Device

n/a

Grounding electrode system components (NEC 250)

existing not available

EMERGENCY SERVICE INFORMATION

Emergency Generator

☒ no ☐ yes

Fuel

KVA

Voltage/Phase

Exit/Emergency Lights Backup Power

☒ Integral Battery

☐ Generator

Fire Alarm System (not required)

☐ Manual

☐ Automatic

☐ Addressable

☐ Class A

☐ Class B

LIGHTNING PROTECTION PROVIDED

☒ no ☐ yes

Provide a table for each structure.

PLUMBING INFORMATION

WATER SYSTEM

Service Line Size

N/A Inches

Distribution Design Criteria (SCPC Table 604.3)

18.65 Fixture Units

Maximum Flow Rate (SCPC Table 604.4)

2.2 GPM

Backflow

Location

N/A

Type

N/A

Test Pressure

N/A psi

SANITARY SEWER SYSTEM

Service Line Size

N/A Inches

Drainage Design Criteria (SCPC Tables 709.1 and 709.2)

14.5 Fixture Units

Maximum Flow Rate

155k GPD

Slope (SCPC Table 704.1)

1/8 Inches/Ft

SUMMARY OF FIXTURES (SCPC Section 403 & Table 403.1)

Water Closets

Male-Required

1 PER 25 FOR 131 SQ. 1 PER 30 FOR REMAINDER EXCEEDING 30

Male WC -Provided

1 UNSEX

Male Urinal -Provided

-

Female-Required

1 PER 25 FOR 131 SQ. 1 PER 30 FOR REMAINDER EXCEEDING 30

Female-Provided

1 UNSEX

Lavatories

Male-Required

1 PER 40 FOR 131 SQ. 1 PER 80 FOR REMAINDER EXCEEDING 80

Male-Provided

1 UNSEX

Female-Required

1 PER 40 FOR 131 SQ. 1 PER 80 FOR REMAINDER EXCEEDING 80

Female-Provided

1 UNSEX

Showers

Male-Provided

-

Female-Provided

-

Drinking Fountains

Required

1 PER 100

Provided

1 H&LO

Family or Assisted-Use Toilet

Required

-

Provided

-

Service Sink

Required

1 SERVICE SINK

Provided

1 SERVICE SINK

Others (list)

Required

-

Provided

-

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 & Section 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or Section 1705 must be approved by OSF. Per SCBC Chapter 16 and ASCE 7 – This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STATEMENT OF SPECIAL INSPECTIONS

MATERIAL

TYPE OF INSPECTION

FREQUENCY

SPECIFICATION REFERENCE

INSPECTION BY

Full statement of Special inspections is being provided

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Form F3 – Building Code Analysis

SOILS & SITE

SOILS INVESTIGATION REQUIRED? (IBC 1803.2)

☐ no ☐ yes

SOILS CLASSIFICATION

Seismic Site Class (SCBC Section 1613.3.2)

D

Classes Soil of Materials (UCS System) (SCBC 1803.5.1)

CLAY/SILT/ SAND

Allowable Footing Bearing Pressure

1,500 psf

MINIMUM DESIGN SOIL BEARING LOAD (SCBC Table 1806.2)

1,500 psf

COMPACTION

Subgrade (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)

95 %

Base (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)

%

Other (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)

%

MINIMUM DESIGN SOIL LATERAL LOAD (SCBC 1610.1)

100 psf

FOOTINGS

Undisturbed footings

☐ no ☐ yes

Compacted Fill Material (SCBC Section 1804.6)

☐ no ☐ yes

ELEVATIONS

Elevation of Water Table

MSL

Elevation of lowest footing

MSL

Elevation of lowest floor or basement

MSL

STRUCTURAL DESIGN INFORMATION, BUILDING

WIND LOADS

Analysis Procedure (ASCE 7 or SCBC 1609.6)

DIRECTIONAL PROCEDURE

Basic design Wind Speed, MPH (3 sec gust IBC Fig 1609.3)

112 = V (ULT)

Exposure Category

B

Wind Importance Factor (ASCE 7 Table 1.5-2)

1.0 = I_w

Internal Pressure Coefficient (ASCE 7)

0.18 = GC_{pi}

External Pressure Coefficient (ASCE 7)

0.25 = GC_p

SEISMIC LOADS/E arthquake

Seismic Importance Factor (ASCE 7)

1.0 = I

Site Class (SCBC Section 1613.3.2)

0.298 = S_s

Mapped Spectral Response Accelerations

0.101 = S₁

Design Spectral Response Acceleration Parameters

0.318 = S_{Ds}

0.161 = S_{D1}

Seismic Use Group (ASCE 7 and Seismic Occupancy Category IBC)

RISK CAT II

Seismic Design Category SCBC Tables 1613.3.5(1) & 1613.3.5(2)

SDC "C"

Basic Seismic Force Resisting System

WOOD SHEAR WALLS

Design Base Shear

3.5 KIPS

Seismic Response Coefficient(s) ASCE 7

0.05 = C_s

Response Modification Factor(s) ASCE 7

6.5 = R

Analysis Procedure

SOILS INVESTIGATION NOT REQUIRED - EXCEPTION #2 IBC 1803.2 - SINGLE STORY BUILDING < 5,000 SQ FT AND NOT MORE THAN 30FT IN HEIGHT

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17PAGE 17NTS

Version April 2021

SHEET ADDED TO SET IN REV 1

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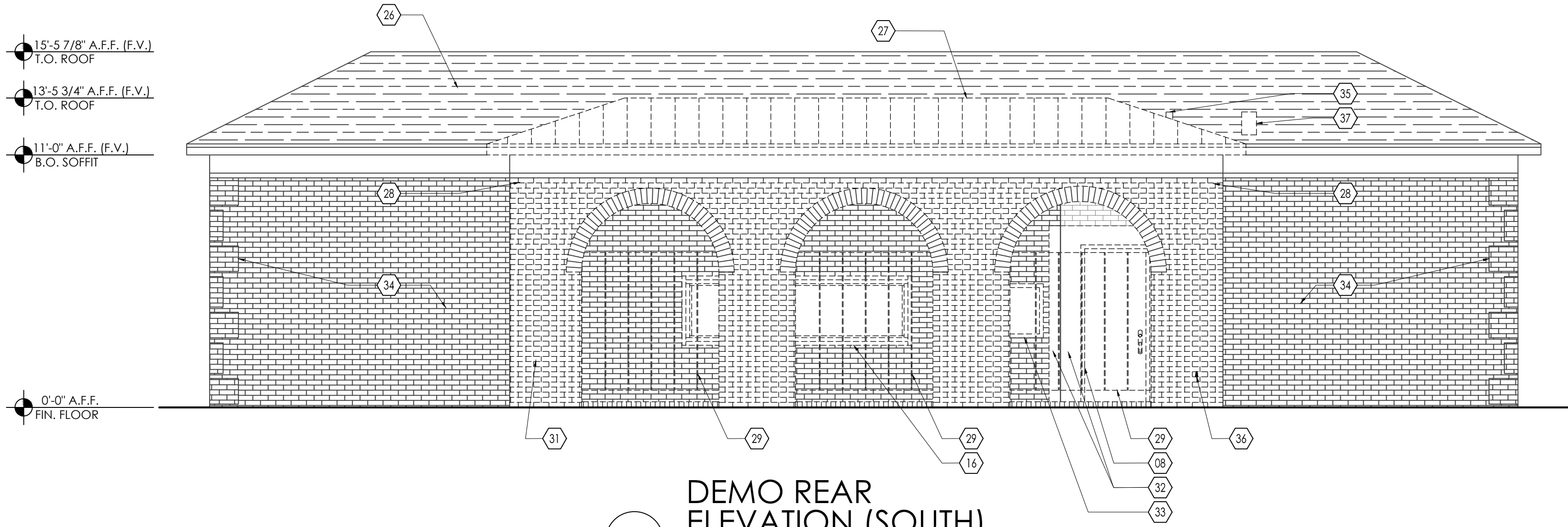
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EDGEFIELD COUNTY
FINANCE & HR OFFICE

A0.5
FORM F3



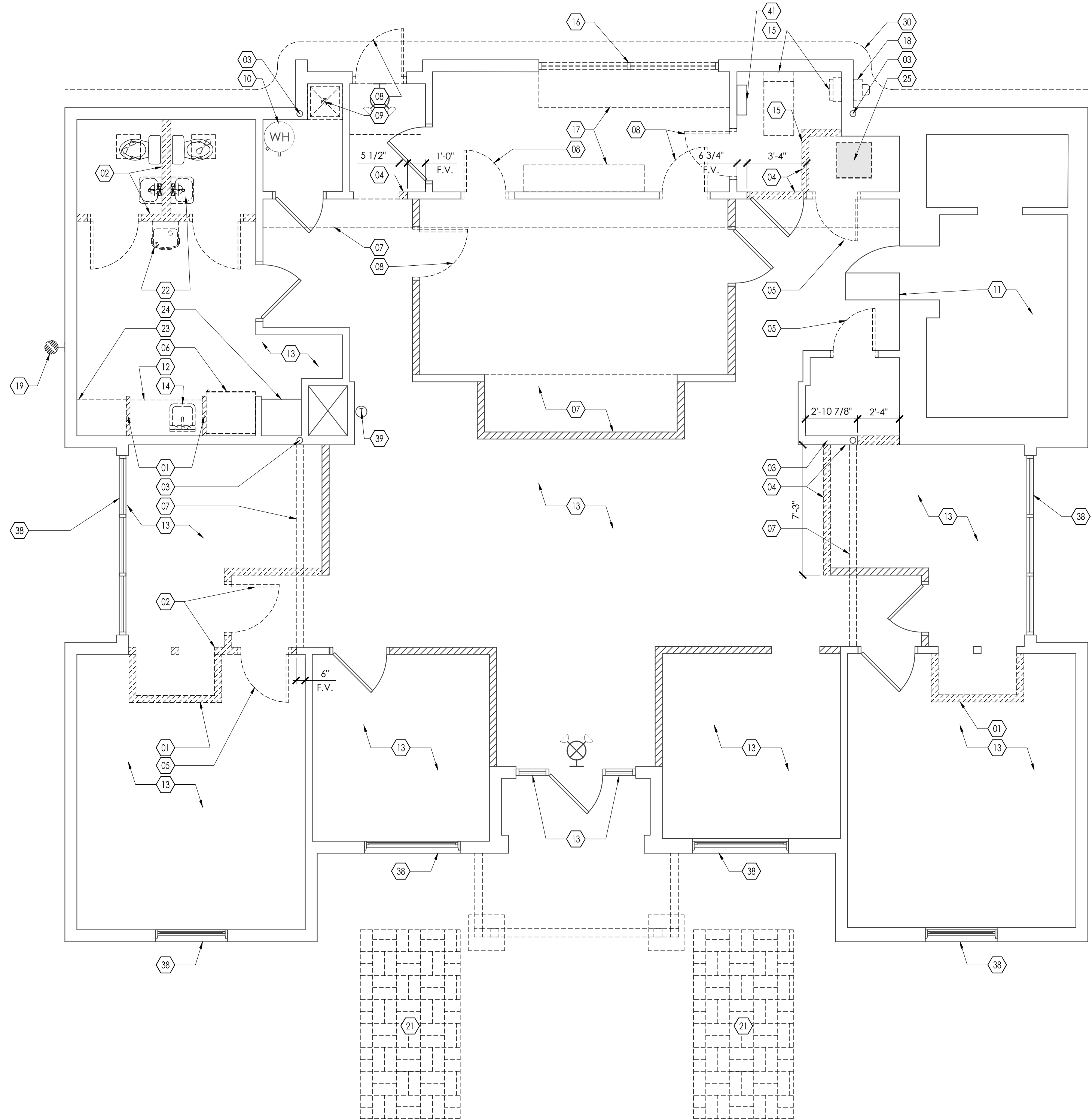
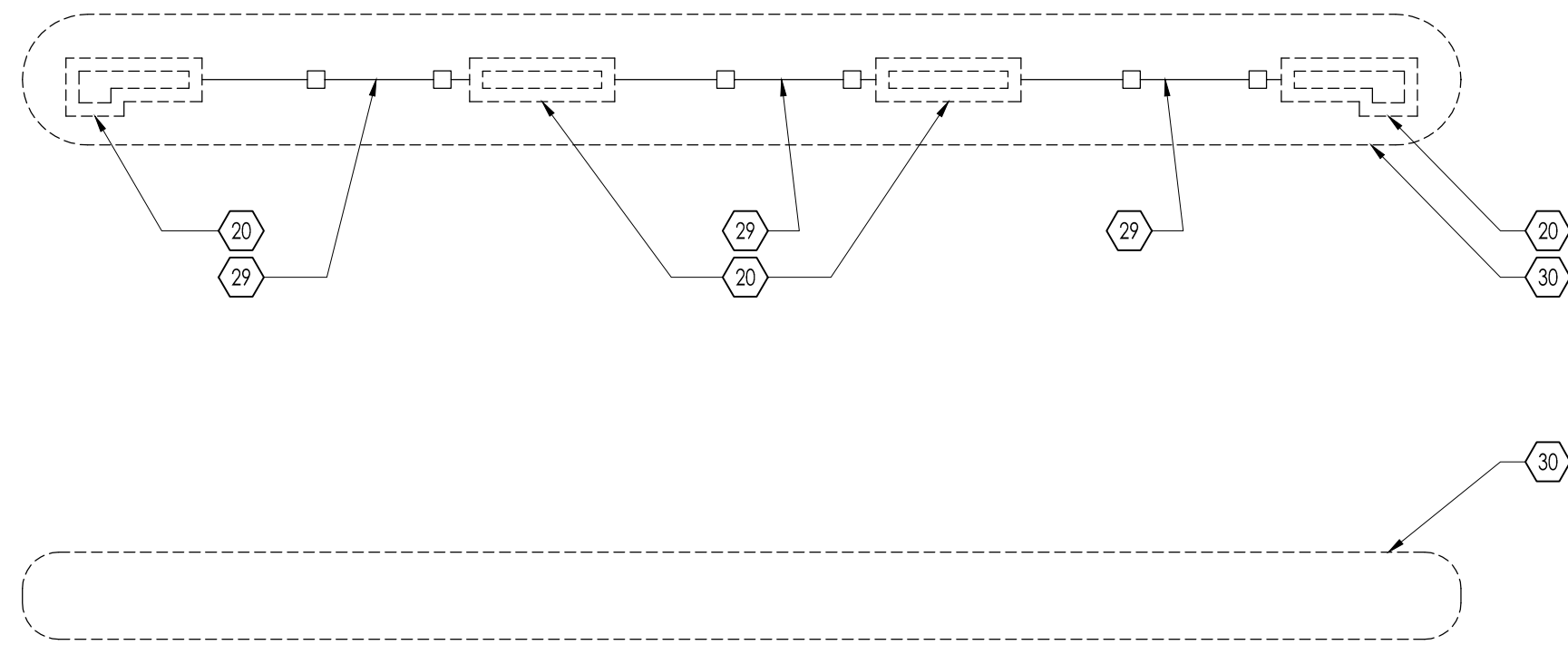
2
DEMO REAR
ELEVATION (SOUTH)
SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1. DENOTES EXISTING WALL CONSTRUCTION THAT DOES NOT EXTEND TO THE CEILING.
2. ALL INTERIOR DIMENSIONS ARE FROM FACE OF FINISH AT EXISTING WALLS U.N.O.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL IN-PLACE STRUCTURAL ELEMENTS FROM DAMAGE DURING DEMOLITION.
4. G.C. IS TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE DEMOLITION SCOPE WITH PROPOSED WORK AND TENANT.
5. PROVIDE TEMPORARY WEATHER PROTECTION DURING DEMOLITION TO PROTECT WORK EXPOSED TO THE EXTERIOR.
6. ALL RELATED ABANDONED CONDUITS, WIRING, AND PIPES ARE TO BE REMOVED.
7. EXISTING CONCRETE SLAB TO REMAIN UNLESS NOTED OTHERWISE. CAP ALL ABANDONED PLUMBING/ELECTRICAL BELOW SLAB LEVEL. FILL/LEVEL ALL SLAB DEPRESSIONS/VOIDS WITH NEW CONCRETE TO BE FLUSH WITH EXISTING SLAB.
8. GC TO VERIFY THAT REMOVAL OF MATERIAL DOES NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE REMAINING BUILDING AND FOUNDATION.
9. DO NOT PENETRATE OR OTHERWISE INTERRUPT THE FIRE RATING OF RATED BUILDING ELEMENTS.
10. G.C. TO INSPECT, PATCH & REPAIR ALL EXTERIOR CONCRETE & MASONRY AS NECESSARY.
11. G.C. TO VERIFY CONDITION OF ALL EMERGENCY LIGHTING & REPLACE AS NECESSARY.
12. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES AS INDICATED ON SHEET G1.0 AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATION HAVING JURISDICTION.
13. AFTER REMOVAL OF FLOORING, SLAB CONDITION SHOULD BE ASSESSED FOR ACCEPTANCE OF NEW FLOOR FINISH.
14. BUSINESS TO REMAIN OPEN DURING ALL WORK. COORDINATE DUST, WALLS, TEMPORARY WEATHER PROOFING & NOISY ADJACENT WORK W/OWNER.
15. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWING & THOSE OF ENGINEERS, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
16. G.C. TO COORDINATE ALL FLOOR & WALL FINISHES TO ALLOW FOR A SMOOTH, LEVEL TRANSITION BETWEEN MATERIALS.
17. G.C. TO INSPECT ALL EXISTING ITEMS TO REMAIN IN PLACE & CLEAN/REPAIR AS NECESSARY & PREP FOR PAINT WHERE APPLICABLE.

KEYED NOTE LEGEND			
01	EXISTING WALL TO BE REMOVED	22	EXISTING RESTROOMS, DRINKING FOUNTAINS, ALL ASSOCIATED PLUMBING & ELECTRICAL FIXTURES TO BE REMOVED IN THEIR ENTIRETY
02	EXISTING WALLS AND DOORS TO BE REMOVED	23	EXISTING BUILT-IN SHELVING TO BE REMOVED
03	APPROXIMATE LOCATION OF EXISTING COLUMN TO REMAIN	24	EXISTING BUILT-IN SHELVING TO REMAIN
04	PORTION OF EXISTING WALL TO BE REMOVED	25	EXISTING LIGHT TO BE REMOVED
05	EXISTING DOOR TO BE RELOCATED - SEE A1.0	26	EXISTING SHINGLE ROOF TO REMAIN
06	EXISTING REFRIGERATOR TO BE REMOVED	27	EXISTING DRIVE-THRU SHINGLE ROOF TO BE REMOVED
07	EXISTING SOFFIT ABOVE TO REMAIN	28	EXISTING SECURITY SYSTEM (BEHIND) TO BE RELOCATED, COORDINATE LOCATION WITH OWNER
08	EXISTING DOOR TO BE REMOVED	29	EXISTING RAILING TO BE REMOVED
09	EXISTING MOP SINK TO BE REMOVED & REPLACED W/NEW	30	EXISTING CONCRETE AROUND DRIVE-THRU TO BE REMOVED - SEE CIVIL DWGS.
10	EXISTING WATER HEATER TO REMAIN	31	EXISTING BRICK WALL TO BE REMOVED
11	EXISTING VAULT & DOOR TO REMAIN	32	EXISTING METAL PANEL TO BE REMOVED
12	EXISTING CABINERY TO BE REMOVED & REPLACED W/NEW	33	EXISTING DISPLAY BOARD TO BE REMOVED
13	EXISTING TO REMAIN U.N.O.	34	EXISTING BRICK TO REMAIN, TYP.
14	EXISTING SINK TO BE REMOVED & REPLACED W/NEW	35	EXISTING ROOF VENT TO BE REMOVED
15	EXISTING ELECTRICAL EQUIPMENT TO BE MOVED OR REMOVED BY OTHERS	36	EXISTING HOSE BIB TO BE REMOVED
16	EXISTING DRIVE THRU WINDOW TO BE REMOVED	37	EXISTING ROOF VENT TO REMAIN
17	EXISTING CABINERY TO BE REMOVED	38	G.C. TO REPAIR WINDOW FRAMES AS NECESSARY
18	EXISTING DEMARK TO BE REMOVED	39	EXISTING THERMOSTAT TO REMAIN
19	EXISTING EXTERIOR WALL SCONCE TO BE REMOVED	40	EXISTING HVAC CHASE TO REMAIN
20	EXISTING MASONRY TO BE REMOVED	41	EXISTING POWER ENTRY
21	EXISTING BRICK PAVERS TO BE REMOVED - SEE CIVIL DWGS.	42	EXISTING TELECOM EQUIPMENT TO BE RELOCATED AS NECESSARY

NOTE TO GENERAL CONTRACTOR:
CONSTRUCTION SHALL BE PHASED SO THAT THE BUILDING SHALL REMAIN IN OPERATION WITH NO INTERRUPTION OF SERVICE EXCEPT FOR AT THE TIME OF CONNECTION OF NEW SERVICES. ALL NEW WORK SHALL BE COMPLETED BEFORE ANY WORK OR DEMO OF EXISTING BUILDING BEGINS. SEE SPECS AND CIVIL DWGS. FOR CONSTRUCTION SAFEGUARDS.
SEE A1.0 AND CIVIL DWGS. FOR PHASING INFO.



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



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EDGEFIELD COUNTY
FINANCE & HR OFFICE

D1.0
DEMO PLAN &
DEMO ELEVATION

WALL TYPE LEGEND

2x4 INTERIOR WALL

1a

2x4 WOOD STUDS @ 16" O.C. (MAX) WITH 5/8" GYPSUM WALLBOARD EACH SIDE. EXTEND ASSEMBLY TO 6" ABOVE FINISHED CEILING.

1b

SIMILAR TO TYPE 1a EXCEPT EXTEND ASSEMBLY TO MATCH ADJACENT WALL HEIGHT. NEW GYPSUM WALLBOARD TO BE FLUSH TO ADJACENT GYPSUM WALLBOARD.

2x6 WOOD FURRING WALL

2

2x6 WOOD STUDS @ 16" O.C. (MAX) WITH 5/8" GYPSUM WALLBOARD ON ONE SIDE. FLUSH TO ADJACENT GYPSUM WALLBOARD. EXTEND ASSEMBLY TO 6" ABOVE FINISHED CEILING.

2x4 WOOD FURRING WALL

3

2x4 WOOD STUDS @ 16" O.C. (MAX) WITH 5/8" GYPSUM WALLBOARD ON ONE SIDE. FLUSH TO ADJACENT GYPSUM WALLBOARD. EXTEND ASSEMBLY TO 6" ABOVE FINISHED CEILING.

NOTES:

1. ALL WALL ASSUMED TO BE TYPE 1a U.N.O.

2. INTERIOR GYPSUM WALLBOARD TO BE FINISHED & READY FOR PAINT - SEE FINISH SCHEDULE

3. PROVIDE ADDITIONAL FRAMING AS REQUIRED BY CODE & AS NECESSARY TO SUPPORT TOILET ROOM, HANDICAPPED ACCESSORIES AND/OR CABINERY.

4. PROVIDE MOLD RESISTANT GYPSUM WALLBOARD @ ALL RESTROOMS, KITCHENETTE & PLUMBING WALLS.

5. PROVIDE SOUND ATTEN. INSULATION @ ALL RESTROOM WALLS.

6. SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

7. PROVIDE R-13 INSULATION @ EXTERIOR WALLS - SEE WALL SECTIONS.

KEYED NOTE LEGEND	
01	MOP SINK - SEE PLUMB. DWGS.
02	WATER HEATER - SEE PLUMB. DWGS.
03	EXISTING HVAC CHASE TO REMAIN
04	EXISTING VAULT & DOOR TO REMAIN
05	EXISTING SOFFIT ABOVE
06	NOT USED
07	REFRIGERATOR W/WATER DISPENSER - AS SELECTED BY OWNER
08	EXISTING TO REMAIN
09	SINK - SEE PLUMB. DWGS.
10	INFILL WHERE PREVIOUS CASED OPENING OR DOOR WAS REMOVED W/CONSTRUCTION TO MATCH ADJACENT. PROVIDE FLUSH TRANSITION @ WALL FINISH
11	ELECTRICAL EQUIPMENT - SEE ELEC. DWGS.
12	EXISTING BUILT-IN SHELVING TO REMAIN
13	CONC. INFILL TO BE FLUSH WITH ADJACENT WHERE BRICK WAS REMOVED
14	CANOPY COLUMN - SEE 1/A3.0
15	INFILL OPENING WHERE DRIVE THRU WINDOW WAS REMOVED W/ WOOD STUD INFILL - SEE 1/A3.1
16	COPY MACHINE - BY OWNER
17	RELOCATED DOOR
18	EXISTING THERMOSTAT TO REMAIN
19	G.C. TO PATCH & REPAIR WALLS AROUND MOP SINK AS NECESSARY
20	STANDING SEAM METAL AWNING ABOVE - SEE A2.0
21	G.C. TO REPAIR WINDOW FRAME AS NECESSARY
22	APPROXIMATE LOCATION OF EXISTING POWER ENTRY
23	TV BY OWNER - SEE ELEC. DWGS.
24	G.C. TO PATCH & REPAIR FLOOR TILES AS NECESSARY
25	APPROXIMATE LOCATION OF EXISTING COLUMN

GENERAL NOTES:

1. DENOTES EXISTING WALL CONSTRUCTION THAT DOES NOT EXTEND TO THE CEILING.

2. G.C. TO PROVIDE NEW GYP. BD. TO BE FLUSH W/EXISTING ADJACENT WALL FINISH WHERE ALL INTERIOR WALLS ARE REMOVED & NOT TO BE REPLACED.

3. DENOTES NEW WALL CONSTRUCTION OR NEW WALL INFILL.

4. ALL DIMENSIONS ARE TO FACE OF STUD ON NEW WALLS & FACE OF FINISH @ EXISTING WALLS U.N.O.

5. THESE DOCUMENTS ARE INTENDED TO DESCRIBE THE WORK REQUIRED TO CONSTRUCT THE ADDITION AS DELINEATED. PRIOR TO CONSTRUCTION, THE G.C. SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE THE SPECIFIC REQUIREMENTS TO INCLUDE: MECHANICAL REQUIREMENTS, POWER & LIGHTING REQUIREMENTS, DOOR LOCATIONS, EQUIPMENT REQUIREMENTS, ETC.

6. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR COORDINATION.

7. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES AS INDICATED ON SHEET G1.0 & ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATION HAVING JURISDICTION.

8. ALL CONSTRUCTION SHALL BE HANDICAPPED ACCESSIBLE & COMPLY WITH BARRIER FREE DESIGN & OTHER APPLICABLE STANDARDS.

9. DO NOT SCALE DRAWING. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.

10. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWING & THOSE OF ENGINEERS, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL IN-PLACE STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

12. DO NOT PENETRATE OR OTHERWISE INTERRUPT THE FIRE RATING OF RATED BUILDING ELEMENTS.

13. ELECTRICAL METER LOCATED @ SE CORNER OF PROPERTY - SEE ELEC. DWGS.

14. ALL EXISTING CONCRETE LIGHT POLE FOOTING AND WIRING ON SITE TO BE REUSED IF POSSIBLE. G.C. TO FIELD VERIFY - SEE CIVIL DWGS.

15. BUSINESS TO REMAIN OPEN DURING ALL WORK. COORDINATE DUST, WALLS, TEMPORARY WEATHER PROOFING & NOISY ADJACENT WORK W/OWNER.

16. FOR ALL STOREFRONT, DOOR, & HARDWARE SCHEDULES REFER TO SHEET A6.0.

17. REFER TO CIVIL ENGINEERING DRAWINGS FOR HC ACCESSIBLE PARKING SPACES & CURB CUT LOCATIONS.

18. REFER TO STOREFRONT ELEVATIONS ON A6.0 FOR LOCATION OF ALL SAFETY GLAZING.

19. MAXIMUM SLOPE OF SIDEWALKS TO BE 1:20. MAXIMUM CROSS-SLOPE IS 1:50. SLOPE AWAY FROM BUILDING.

20. G.C. TO COORDINATE ALL FLOOR & WALL FINISHES TO ALLOW FOR A SMOOTH, LEVEL TRANSITION BETWEEN MATERIALS.

21. ALL WOOD IN CONTACT WITH MORTAR, CONCRETE, & MASONRY TO BE PRESSURE TREATED.

22. INTERIOR GYPSUM WALLBOARD TO BE FINISHED & READY FOR PAINT.

PHASE 1: ALL NEW BUILDING CONSTRUCTION TO BE PERFORMED AND COMPLETED TO A POINT READY TO OCCUPY BY THE OWNER.

PHASE 2: ALL INTERIOR WORK ON EXISTING BUILDING TO BE PERFORMED IN PHASE 2 SO AS TO NOT INTERFERE WITH OWNER'S DAY TO DAY OPERATIONS.

SEE SPECS

NARRAMORE

EST. 1973

ARCHITECTURE

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STATE OF SOUTH CAROLINA

GREENVILLE, SC 29605

REGISTERED ARCHITECT

1402

12/03/2024

STATE OF SOUTH CAROLINA

NARRAMORE ASSOCIATES, AIA ARCHITECTS, INC.

GREENVILLE, SC B84033

REGISTERED ARCHITECTS

Edgefield County

SCHOOL DISTRICT

ECSD OFFICE EXPANSION

425 LEE ST

JOHNSTON, SC 29832

REVISIONS

REV1 12-03-24

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PROJECT NUMBER

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EDGEFIELD COUNTY

FINANCE & HR OFFICE

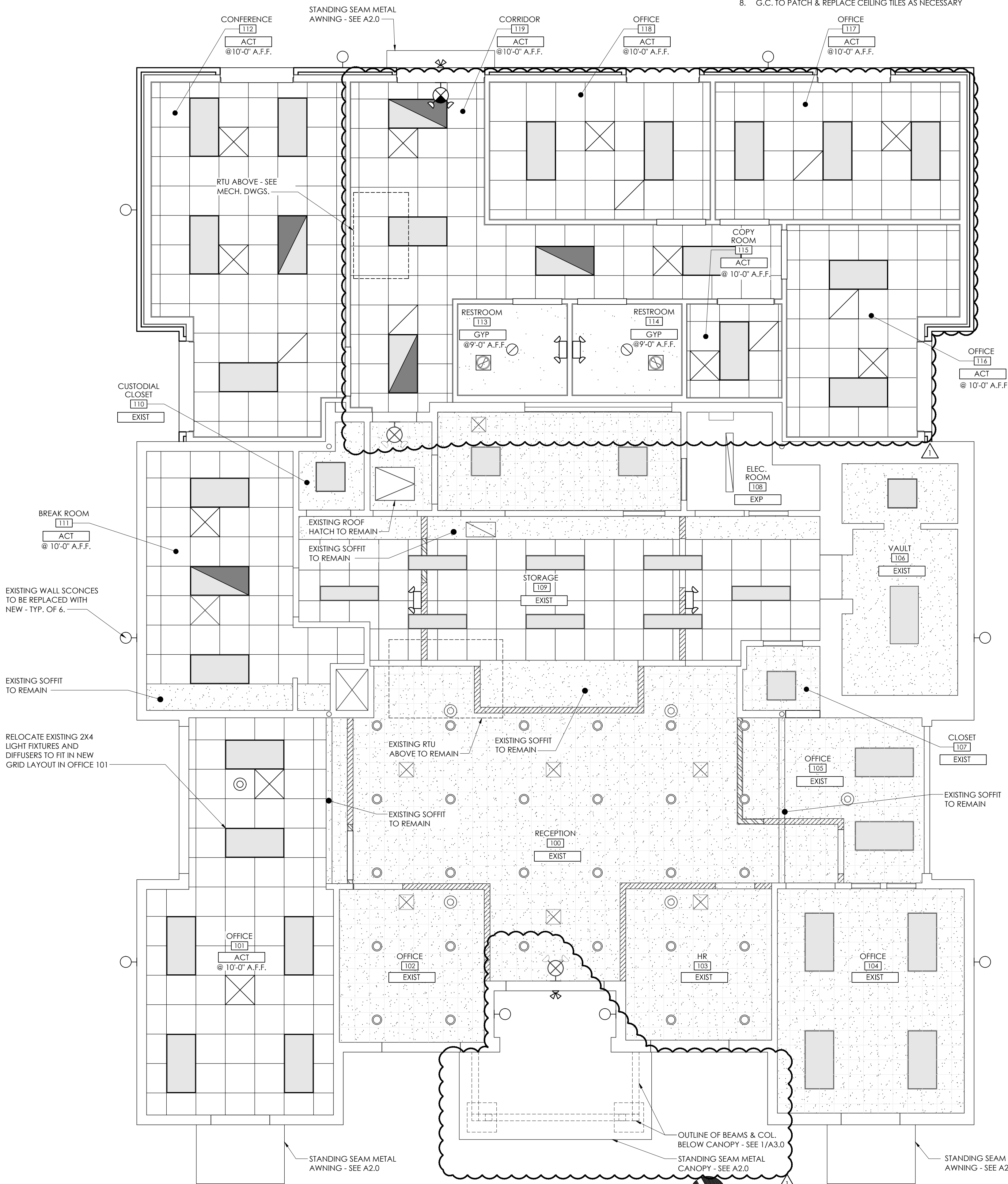
A1.0

FLOOR PLAN

N.O.	SPACE	FLOOR	BASE	WALLS				CEILING	
				TOP	RIGHT	BOTTOM	LEFT	MATERIAL	HEIGHT
100	RECEPTION	LVT	WB	PT	PT	PT	PT	EXIST	EXIST
101	OFFICE	CPT	WB	PT	PT	PT	PT	ACT	10'-0"
102	OFFICE	CPT	WB	PT	PT	PT	PT	EXIST	EXIST
103	HR	CPT	WB	PT	PT	PT	PT	EXIST	EXIST
104	OFFICE	CPT	WB	PT	PT	PT	PT	EXIST	EXIST
105	OFFICE	CPT	WB	PT	PT	PT	PT	EXIST	EXIST
106	VAULT	EXIST	EXIST	PT	PT	PT	PT	EXIST	EXIST
107	CLOSET	CPT	WB	PT	PT	PT	PT	EXIST	EXIST
108	ELEC. ROOM	EXIST	EXIST	PT	PT	PT	PT	EXIST	EXIST
109	STORAGE	EXIST	EXIST	PT	PT	PT	PT	EXIST	EXIST
110	CUSTODIAL CLOSET	EXIST	EXIST	PT	PT	PT	PT	EXIST	EXIST
111	BREAK ROOM	LVT	WB	PT	PT	PT	PT	ACT	10'-0"
112	CONFERENCE	CPT	WB	PT	PT	PT	PT	ACT	10'-0"
113	RESTROOM	LVT	WB	PT	PT	PT	PT	GYP. BD.	10'-0"
114	RESTROOM	LVT	WB	PT	PT	PT	PT	GYP. BD.	9'-0"
115	COPY ROOM	LVT	WB	PT	PT	PT	PT	ACT	9'-0"
116	OFFICE	CPT	WB	PT	PT	PT	PT	ACT	10'-0"
117	OFFICE	CPT	WB	PT	PT	PT	PT	ACT	10'-0"
118	OFFICE	CPT	WB	PT	PT	PT	PT	ACT	10'-0"
119	CORRIDOR	LVT	WB	PT	PT	PT	PT	ACT	10'-0"

MAT. KEY	DESCRIPTION	TYPE / SERIES	COLOR / FINISH	REMARKS
ACT	CEILING TILE	SELECTION BY OWNER	WHITE	STYLE: 2x2
CPT	CARPET TILE	SELECTION BY OWNER	SELECTION BY OWNER	
EXIST	EXISTING	--	--	
EXP	--	--	EXPOSED TO STRUCTURE ABOVE	
GYP	GYPSUM WALLBOARD	--	--	STYLE: 2x2
LVT	LUXURY VINYL TILE	SELECTION BY OWNER	SELECTION BY OWNER	
PT	PAINTED GYPSUM WALLBOARD	PRIMER & PAINT OVER GYPSUM WALLBOARD	SELECTION BY OWNER	M.R. REQUIRED @ ALL RESTROOM, KITCHENETTE & PLUMBING WALLS
WB	WALL BASE	4" VINYL COVE BASE	COLOR: BLACK	SELECTION BY OWNER

RCP SYMBOL LEGEND	
	EXISTING WALL MOUNTED EXIT LIGHT/ EMERGENCY LIGHT TO REMAIN - SEE ELEC. DWGS.
	WALL MOUNTED EXIT LIGHT/ EMERGENCY LIGHT - SEE ELEC. DWGS.
	SUPPLY DIFFUSER - SEE MECH. DWGS.
	RETURN DIFFUSER - SEE MECH. DWGS.
	EXISTING SUPPLY DIFFUSER TO REMAIN
	EXISTING RETURN DIFFUSER TO REMAIN
	EXHAUST FAN - SEE MECH. DWGS.
	EXISTING RECESSED CAN LIGHT FIXTURE TO REMAIN - SEE ELEC. DWGS.
	EXISTING RECESSED SPEAKER TO REMAIN
	RECESSED SPEAKER - SEE ELEC. DWGS.
	2' X 4' RECESSED LIGHT FIXTURE - SEE ELEC. DWGS.
	2' X 4' RECESSED LIGHT FIXTURE W/BACKUP BATTERY - SEE ELEC. DWGS.
	EXISTING 2' X 4' RECESSED LIGHT FIXTURE - SEE ELEC. DWGS.
	EXISTING 2' X 4' SURFACE MOUNTED LIGHT FIXTURE - SEE ELEC. DWGS.
	EXISTING 2' X 2' RECESSED LIGHT FIXTURE - SEE ELEC. DWGS.
	EXISTING LIGHT FIXTURE ABOVE TRANSLUCENT CEILING GRID TO REMAIN - G.C. SHALL VERIFY TYPE, AMOUNT & LOCATION - SEE ELEC. DWGS.
	6' RECESSED CAN LIGHT FIXTURE CENTERED IN SPACE - SEE ELEC. DWGS.
	EMERGENCY LIGHTING UNIT - SEE ELEC. DWGS.
	WALL SCONCE - SEE ELEC. DWGS.
	EXISTING 4' LIGHT STRIP - SEE ELEC. DWGS.
	REMOTE HEAD - SEE ELEC. DWGS.



GENERAL RCP NOTES:

- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL LEGEND, DETAILS & SCHEDULES.
- COORDINATE WITH STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL FOR ALL ITEMS PROVIDED BY THOSE DISCIPLINES. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT ALL CEILING MOUNTED ELEMENTS WITH ALL OTHER CEILING MOUNTED EQUIPMENT & STRUCTURE & CORRECTING ANY INTERFERENCE PRIOR TO INSTALLATION.
- ALL DIMENSIONS ARE TO FACE OF WALL FINISH U.N.O.
- ALL DIMENSIONS TO LIGHT LOCATIONS ARE TO CENTERLINE OF FIXTURE.
- CONFIRM ALL LIGHT FIXTURE SELECTIONS WITH OWNER PRIOR TO CONSTRUCTION.
- DENOTES EXISTING LOW WALL CONSTRUCTION.
- DENOTES NEW LOW WALL CONSTRUCTION.
- G.C. TO PATCH & REPLACE CEILING TILES AS NECESSARY



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A1.1

REFLECTED CEILING PLAN
& FINISH SCHEDULES

REFLECTED CEILING PLAN

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

- GENERAL NOTES:
1.

THIS DOCUMENT IS NOT FOR CONSTRUCTION OR BID PURPOSES. THIS IS AN AS-BUILT DRAWING OF EXISTING CONDITIONS ONLY.
2.

DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION CONTACT THE ARCHITECT FOR CLARIFICATION.
3.

PAIN

ALL NEW & EXISTING GAS PIPING ON ROOF.
4.

PROVIDE CRICKETS ON BACKWATER SIDE OF ALL NEW ROOFTOP EQUIPMENT CURBS.
5.

PATCH ALL ABANDONED ROOF DECK OPENINGS (I.E. REMOVED RTU'S, EXHAUST SYSTEMS, ETC.) WITH NEW ROOF DECKING TO MATCH EXISTING. NO ROOF OPENINGS ARE PERMITTED EXCEPT ACCESS HATCHES & PANELS.
6.

PATCH ALL RUSTED ROOF DECKING WITH NEW ROOF DECKING TO MATCH EXISTING. PREP DECKING FOR NEW PAINTED FINISH.
7.

ENSURE ANY & ALL WORK AFFECTING THE ROOF (INCLUDING EXHAUST VENTS, SATELLITE MOUNTS, HVAC PENETRATIONS, ETC.) IS CONDUCTED BY A ROOFING CONTRACTOR CERTIFIED FOR THE ROOFING TYPE BEING MODIFIED & APPROVED BY THE PROPERTY MANAGER. THIS IS TO ENSURE THE ROOF WARRANTY IS MAINTAINED.
8.

NO INTERIOR IMPROVEMENTS SHALL BE MOUNTED AND/OR SECURED THROUGH THE ROOF DECK AND/OR ROOF MEMBRANE.
9.

NEW ROOF MATERIALS TO MATCH EXISTING.
10.

DO NOT BLOCK ACCESS HATCHES OR PANELS.
11.

G.C. TO INSPECT EXISTING ROOF AND REPAIR AS NECESSARY.
12.

G.C. TO PATCH AND REPAIR WHERE RESTROOM VTR WAS REMOVED.



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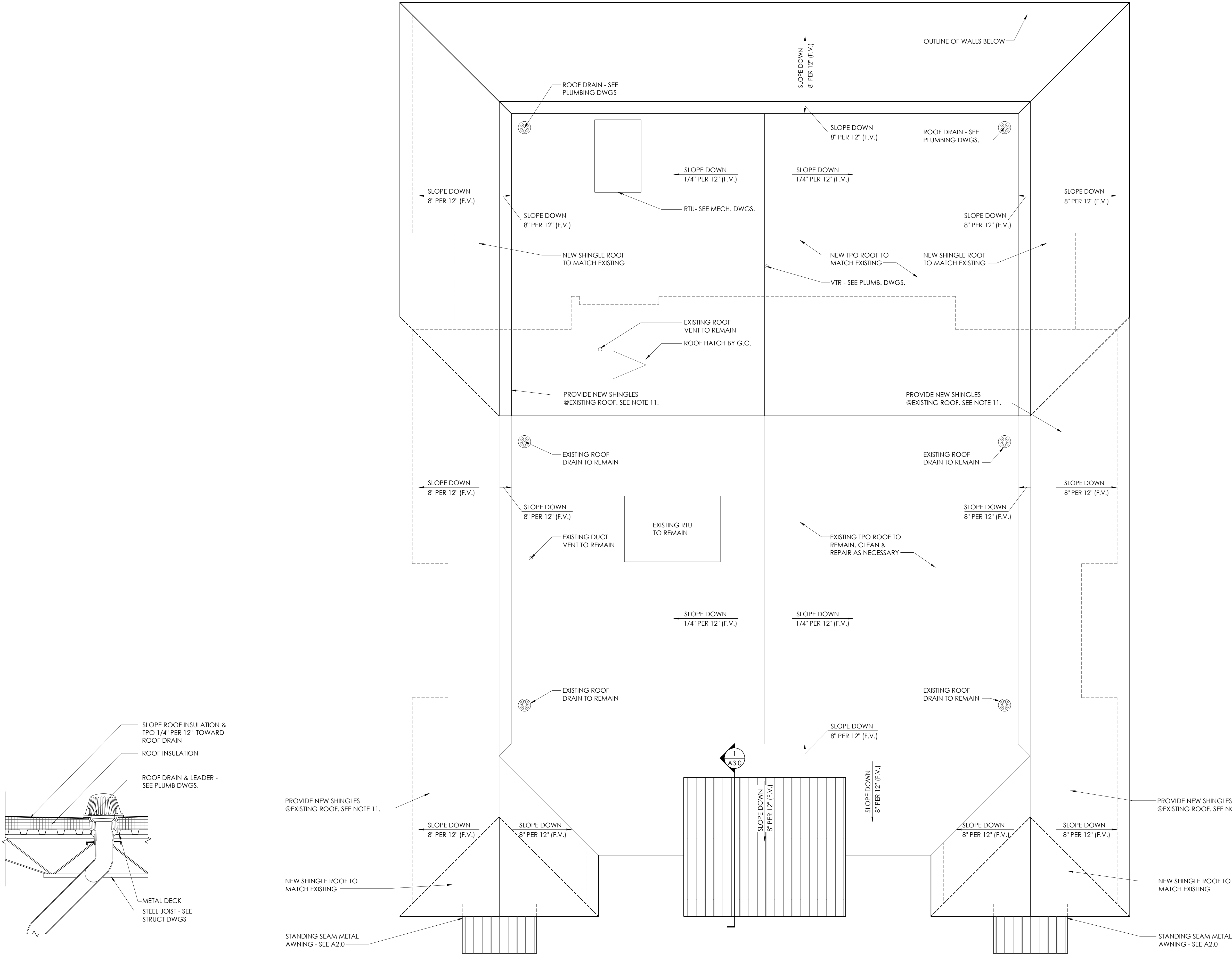


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A1.2
ROOF PLAN



2 SECTION @ ROOF DRAIN
SCALE: 3/4" = 1'-0"

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

EXTERIOR ELEVATION NOTES

1. ALL ALUMINUM STOREFRONT MEMBERS & EXPOSED HARDWARE TO HAVE BLACK ANODIZED FINISH. PRIOR TO ORDERING CONTRACTOR TO VERIFY COLOR WITH OWNER.
2. CONTRACTOR SHALL SUBMIT SAMPLES OF ALL EXTERIOR FINISH MATERIALS TO OWNER FOR REVIEW/APPROVAL PRIOR TO INSTALLATION OF FINISHES.
3. CAULK & SEAL ALL THRU-WALL PENETRATIONS WATERTIGHT. ALL SEALANT SHALL BE COLOR MATCHED TO ADJACENT SURFACES.
4. G.C. TO VERIFY EXISTING B.O. OF DECK HEIGHT IN FIELD & MATCH THIS @ NEW ADDITION FOR THE SAME B.O. DECK ELEVATION.



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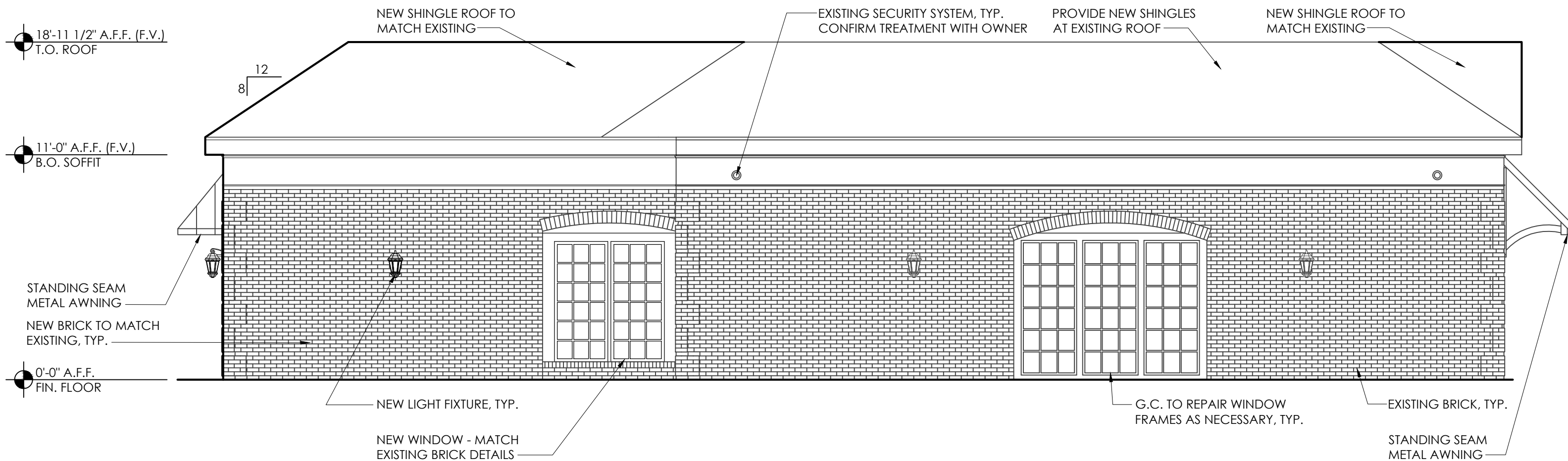
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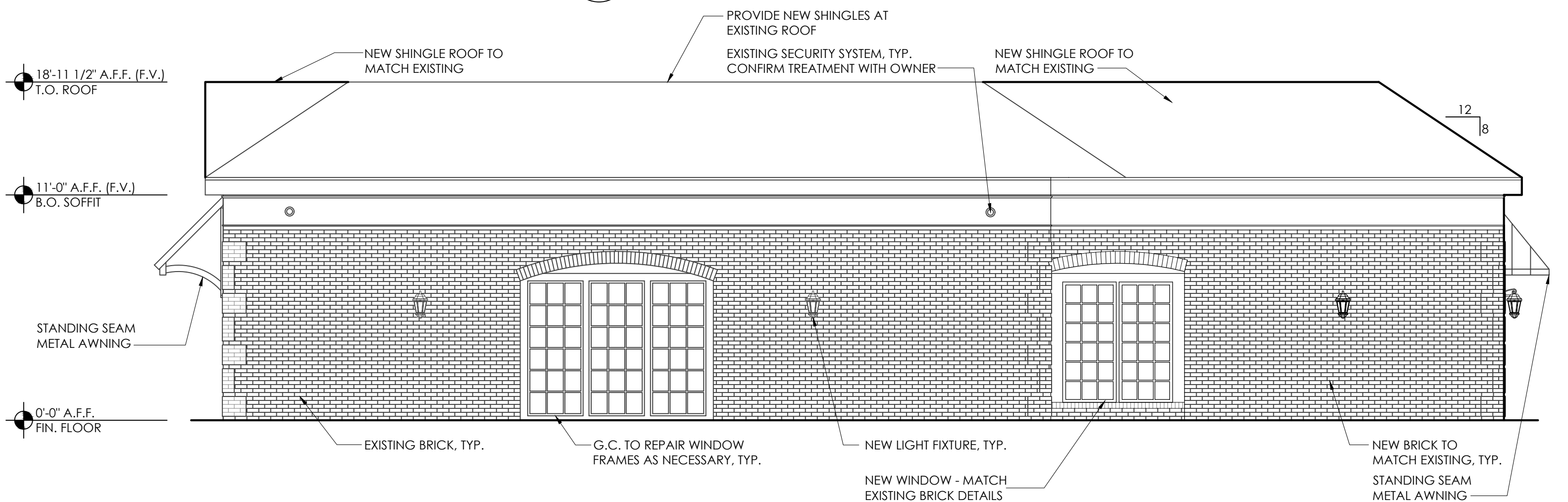
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A2.0

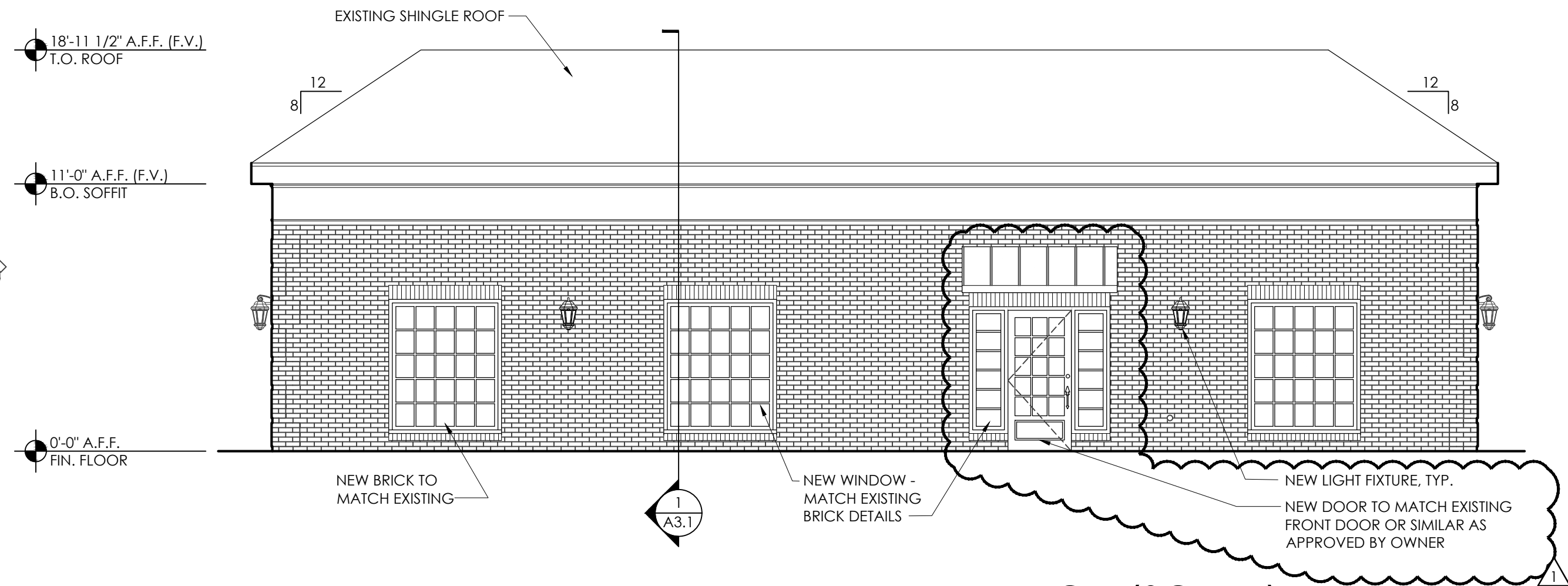
EXTERIOR
ELEVATIONS



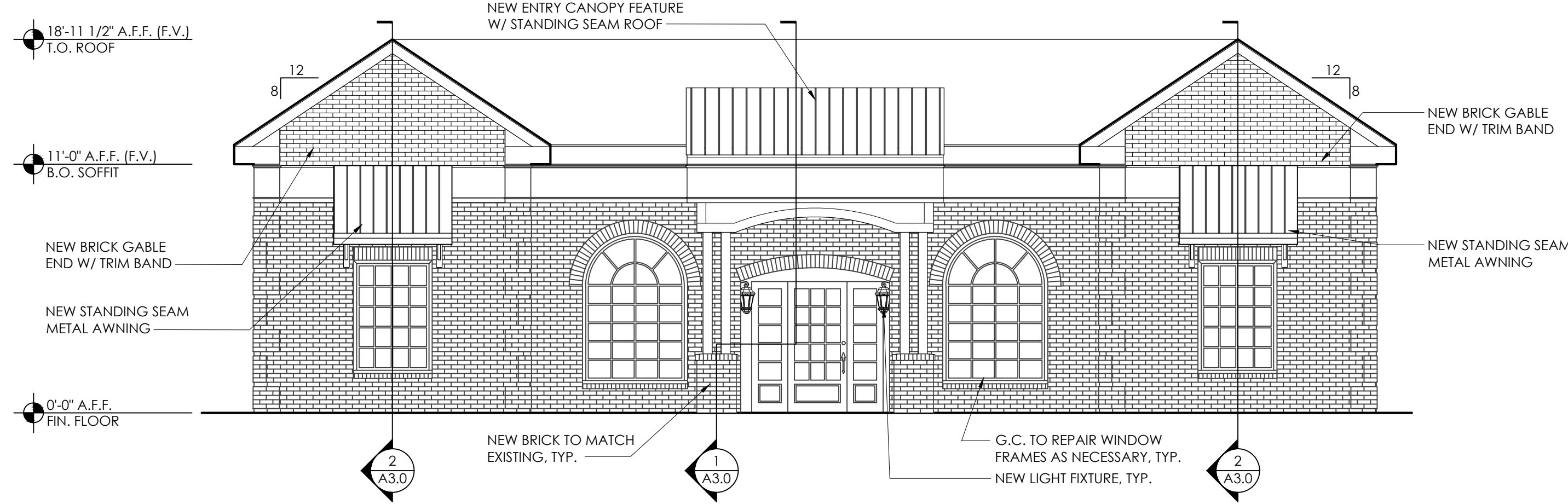
4 SIDE ELEVATION (EAST)
SCALE: 3/16" = 1'-0"



2 SIDE ELEVATION (WEST)
SCALE: 3/16" = 1'-0"



3 REAR ELEVATION (SOUTH)
SCALE: 3/16" = 1'-0"



1 FRONT ELEVATION (NORTH)
SCALE: 3/16" = 1'-0"



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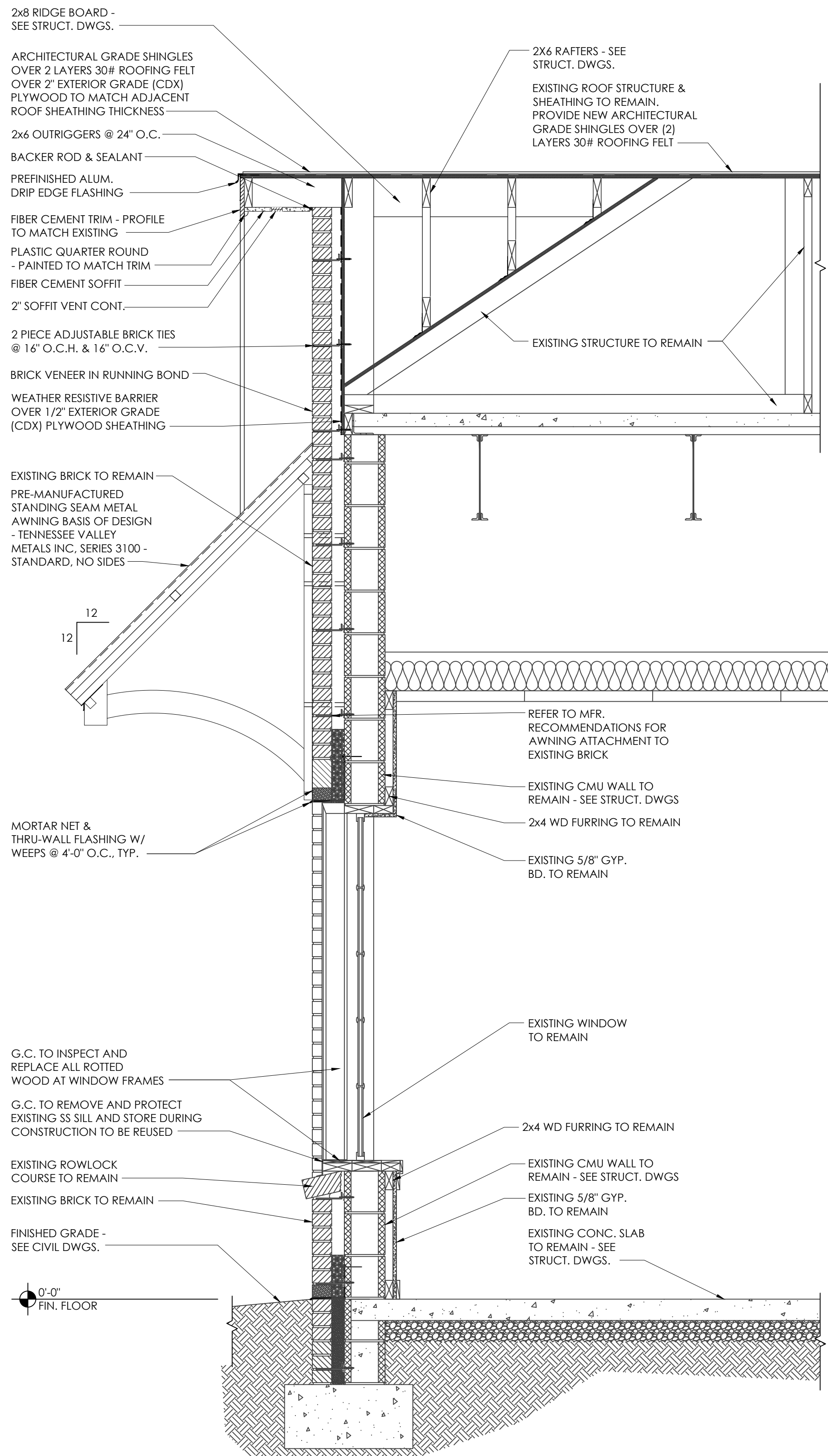
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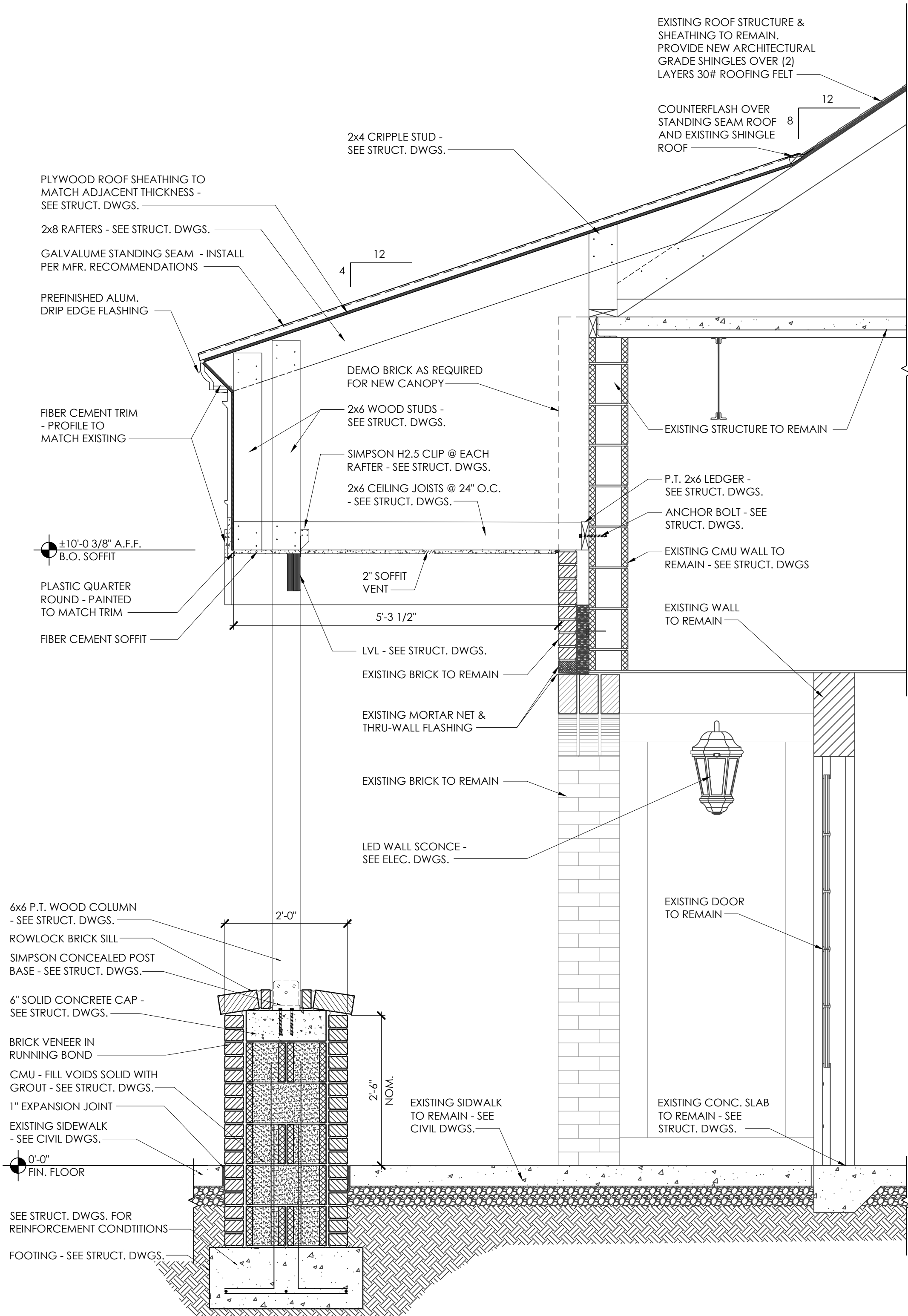
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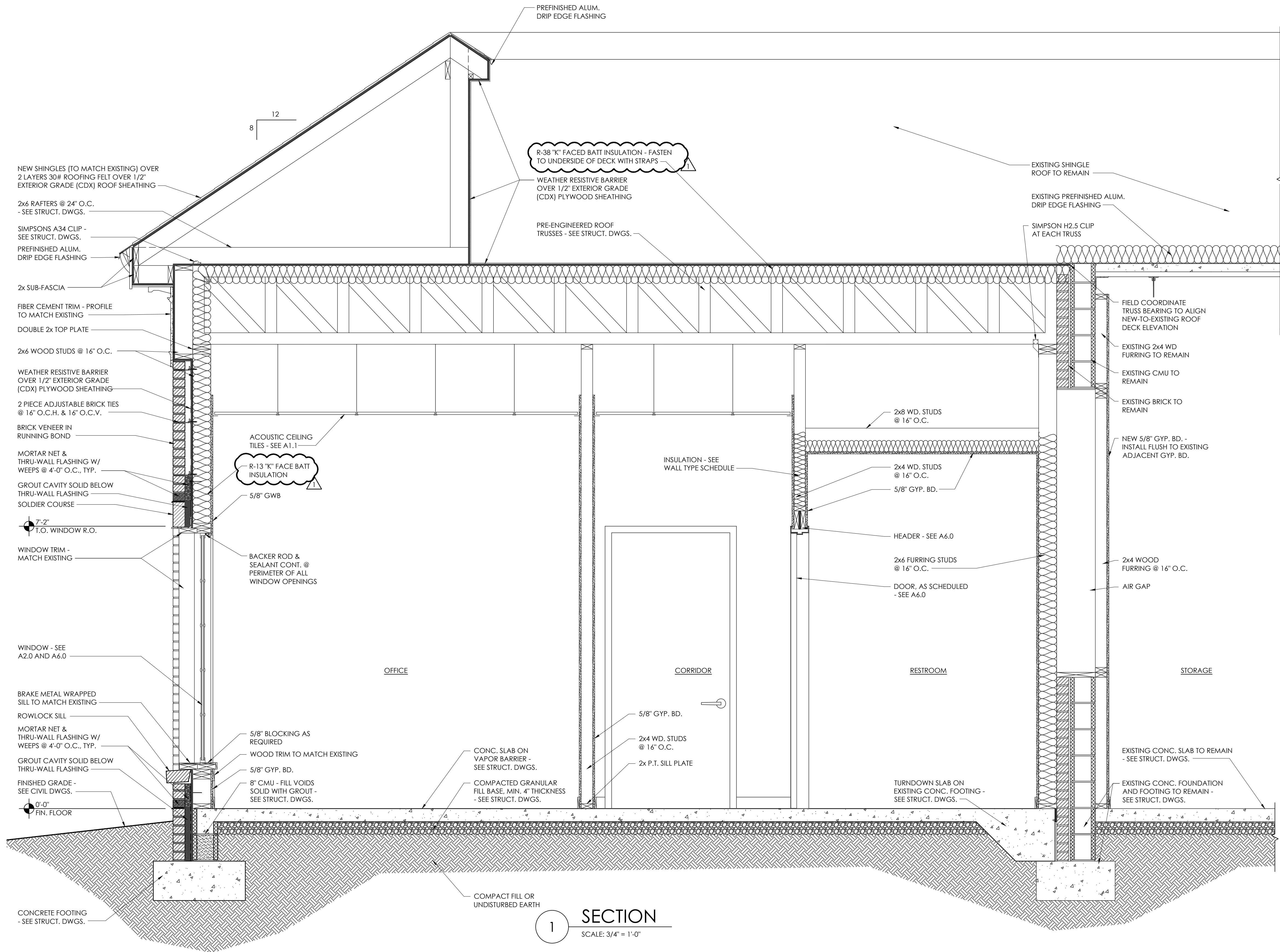
A3.0
WALL
SECTIONS



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



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



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A3.1
WALL
SECTIONS

SYMBOL LEGEND	
AC-1	LAMINATE CABINET W/ WHITE MELAMINE INTERIOR AND 4" SATIN WIRE PULL
AC-2	MOP SINK - SEE PLUMB. DWGS.
AC-3	SOLID SURFACE COUNTERTOP AND BACKSPLASH
AC-4	APPROXIMATE LOCATION OF EXISTING COLUMN
AC-5	4" VINYL COVE BASE
*CONFIRM CABINETRY CONFIGURATION WITH OWNER	



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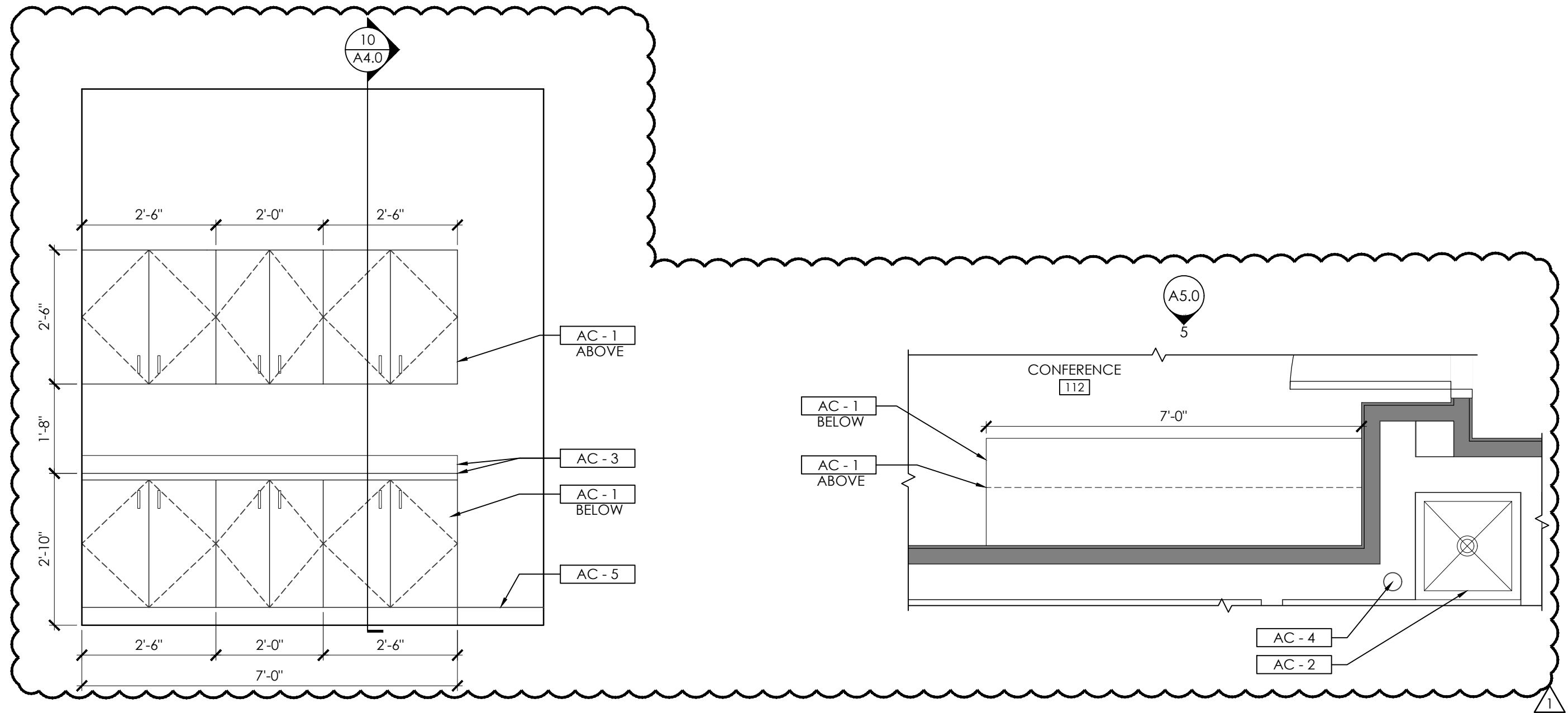
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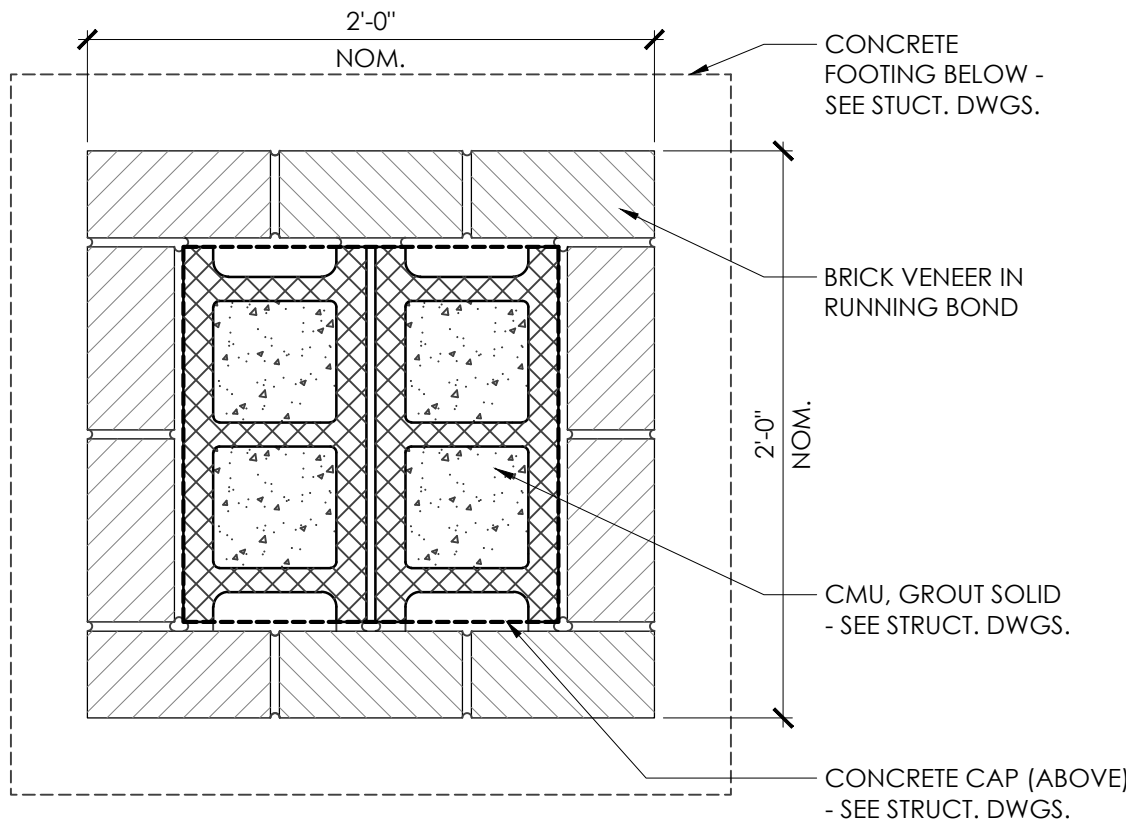
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A5.0
ENLARGED PLAN
AND DETAILS

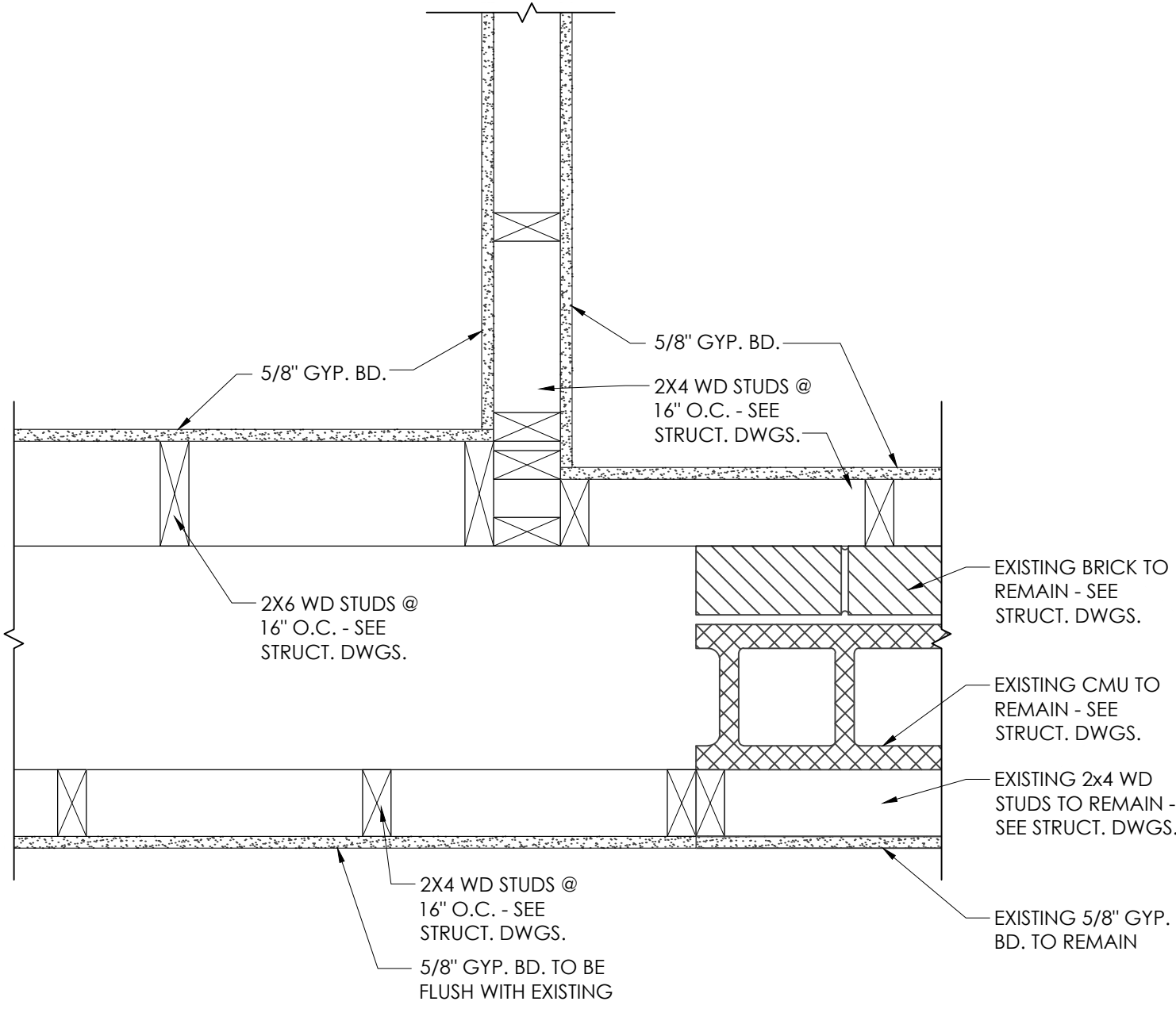


5 CONFERENCE ROOM ELEVATION
SCALE: 1/2" = 1'-0"

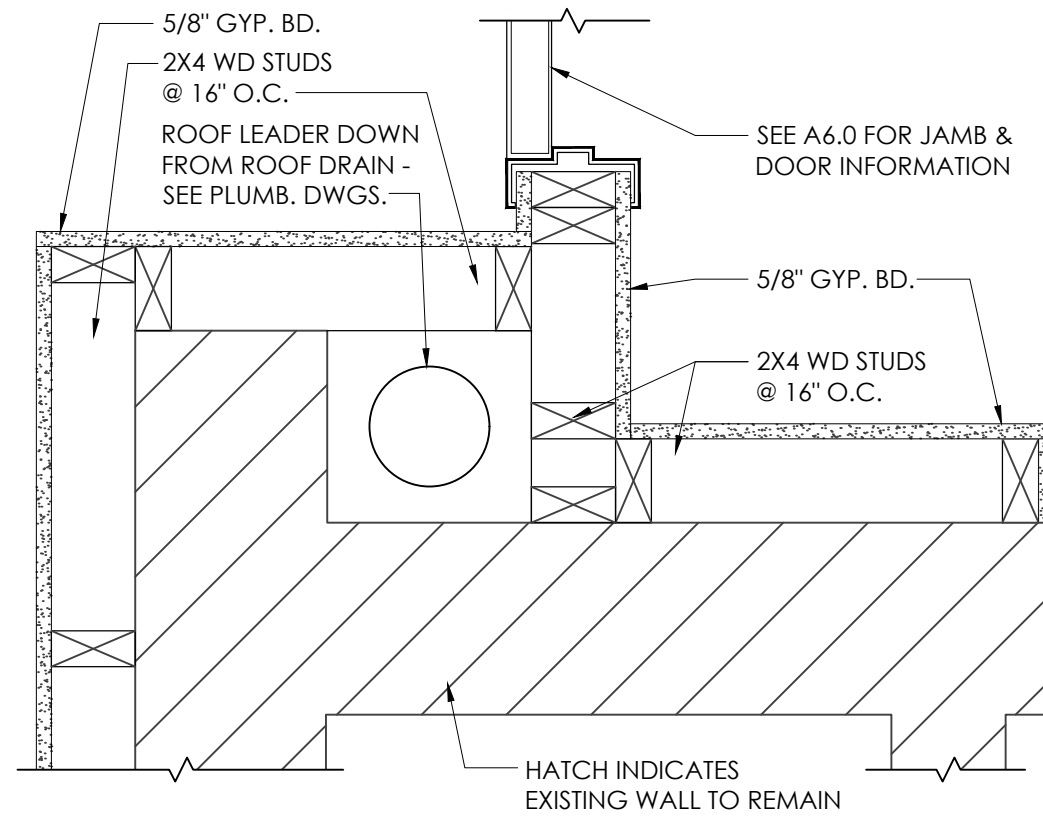
4 ENLARGED CONFERENCE ROOM PLAN
SCALE: 1/2" = 1'-0"



3 PLAN DETAIL @ CANOPY COLUMN
SCALE: 1 1/2" = 1'-0"



2 PLAN DETAIL @ INFILLED DRIVE-THRU WINDOW
SCALE: 1 1/2" = 1'-0"



1 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE																
NO.	WIDTH	HEIGHT	THICKNESS	DOOR			FRAME			DETAILS			HDW.	RATING	COMMENTS	
				TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL				
101						EXISTING TO REMAIN							1	--	RELOCATED EXISTING DOOR, SEE A1.0	
107	2'-0"	7'-0"	1 3/4"	B	SC WOOD	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	3	--		
108						EXISTING TO REMAIN							3	--	RELOCATED EXISTING DOOR, SEE A1.0	
112	3'-0"	7'-0"	1 3/4"	C	SC WOOD/ GLASS	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	1	--	MATCH EXISTING OFFICE DOORS	
113	3'-0"	7'-0"	1 3/4"	B	SC WOOD	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	4	--		
114	3'-0"	7'-0"	1 3/4"	B	SC WOOD	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	4	--		
116	3'-0"	7'-0"	1 3/4"	C	SC WOOD/ GLASS	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	1	--	MATCH EXISTING OFFICE DOORS	
117	3'-0"	7'-0"	1 3/4"	C	SC WOOD/ GLASS	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	1	--	MATCH EXISTING OFFICE DOORS	
118	3'-0"	7'-0"	1 3/4"	C	SC WOOD/ GLASS	FIELD PAINT	2	WD	FIELD PAINT	H2	J2	--	1	--	MATCH EXISTING OFFICE DOORS	
119	3'-0"	7'-0"	1 3/4"	A	SC WOOD/ GLASS	FIELD PAINT	1	WD	FIELD PAINT	H1	J1	S1	2	--		
<div>NOTES:</div> <div><div>1.</div><div>DOORS TO BE A MIN. OF 18 GAUGE MATERIAL.</div></div> <div><div>2.</div><div>COORDINATE CORES & KEYING W/ OWNER FOR ALL DOORS.</div></div> <div><div>3.</div><div>ALL LOCKS TO BE CYLINDRICAL.</div></div> <div><div>4.</div><div>FINISH OF ALL HARDWARE TO BE SELECTED BY OWNER.</div></div>																

WINDOW NOTES		HARDWARE SCHEDULE	
1. ALL EXTERIOR GLAZING IS 1" CLEAR. LOW "E" ALL GLAZING NEEDS TO BE LISTED TO MEET LOCAL WIND LEVELS AND CORRESPONDING DP RATINGS. 2. WINDOWS BASIS OF DESIGN: WEATHER SHIELD "SIGNATURE SERIES" CASEMENT WINDOWS (8219) OR CASEMENT PICTURE WINDOWS (8219) - G.C. AND WINDOW INSTALLER TO COORDINATE WINDOW SIZES AND REQUIRED OPENINGS WITH SELECTED WINDOW PACKAGE. 3. "T" DENOTES TEMPERED GLAZING WHERE REQUIRED BY CODE. 4. COLOR : ALUMINUM CLAD AS SELECTED. 5. INTERIOR SILLS TO MATCH EXISTING. 6. FIRE RATED WINDOWS SHOWN SHALL BEAR A W-120 MARKING AND COMPLY W/ ASTM E119 OR UL263 STANDARDS 7. VERIFY WINDOW R.O. W/ MFR.		SET	DESCRIPTION
1		1	1 1/2 PR. BUTT HINGES, OVERHEAD DOOR CLOSER, WALL STOP, OFFICE LOCKSET W/ LEVER HANDLES, (3) SILENCERS
2		2	1 1/2 PR. BUTT HINGES, OVERHEAD DOOR CLOSER, WALL STOP, ENTRY LOCKSET W/ LEVER HANDLES, SINGLE CYLINDRICAL LOCKSET DEADLOCK FUNCTION, WEATHERSTRIPPING, THRESHOLD, PANIC PUSH BAR ON PUSH SIDE, (3) SILENCERS
3		3	1 1/2 PR. BUTT HINGES, OVERHEAD DOOR CLOSER, WALL STOP, STOREROOM LOCKSET W/ LEVER HANDLES, (3) SILENCERS
4		4	1 1/2 PR. BUTT HINGES, OVERHEAD DOOR CLOSER, WALL STOP, PRIVACY LOCKSET, (3) SILENCERS



EST. 1973



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SEAL



12/03/2024





Edgefield County
SCHOOL DISTRICT



ECSD OFFICE EXPANSION

425 LEE ST
JOHNSTON, SC 29832

REVISIONS

△ REV1 12-03-24

PROJECT DATA

3,810 SQ. FT.

PROJECT NUMBER

24124

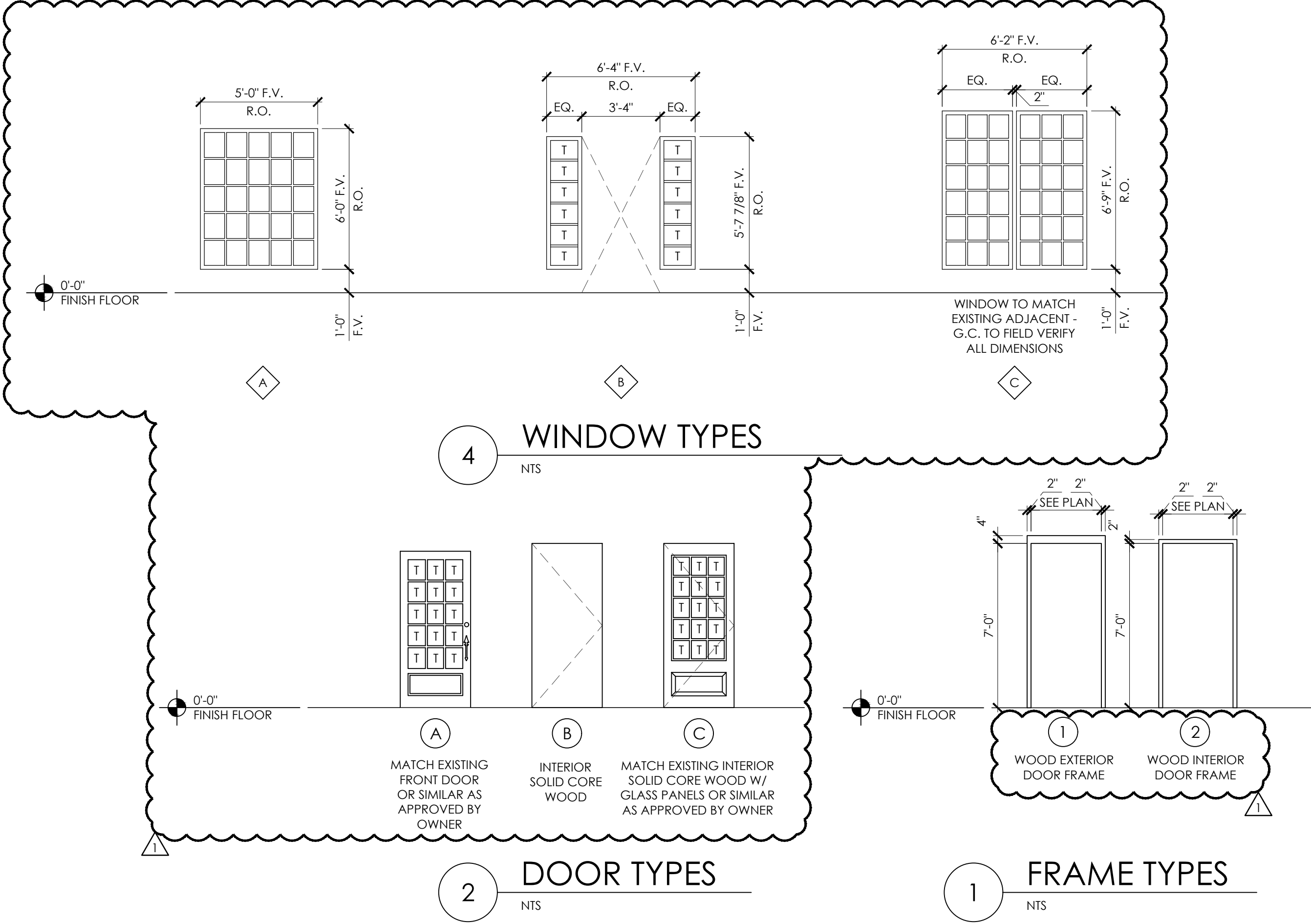
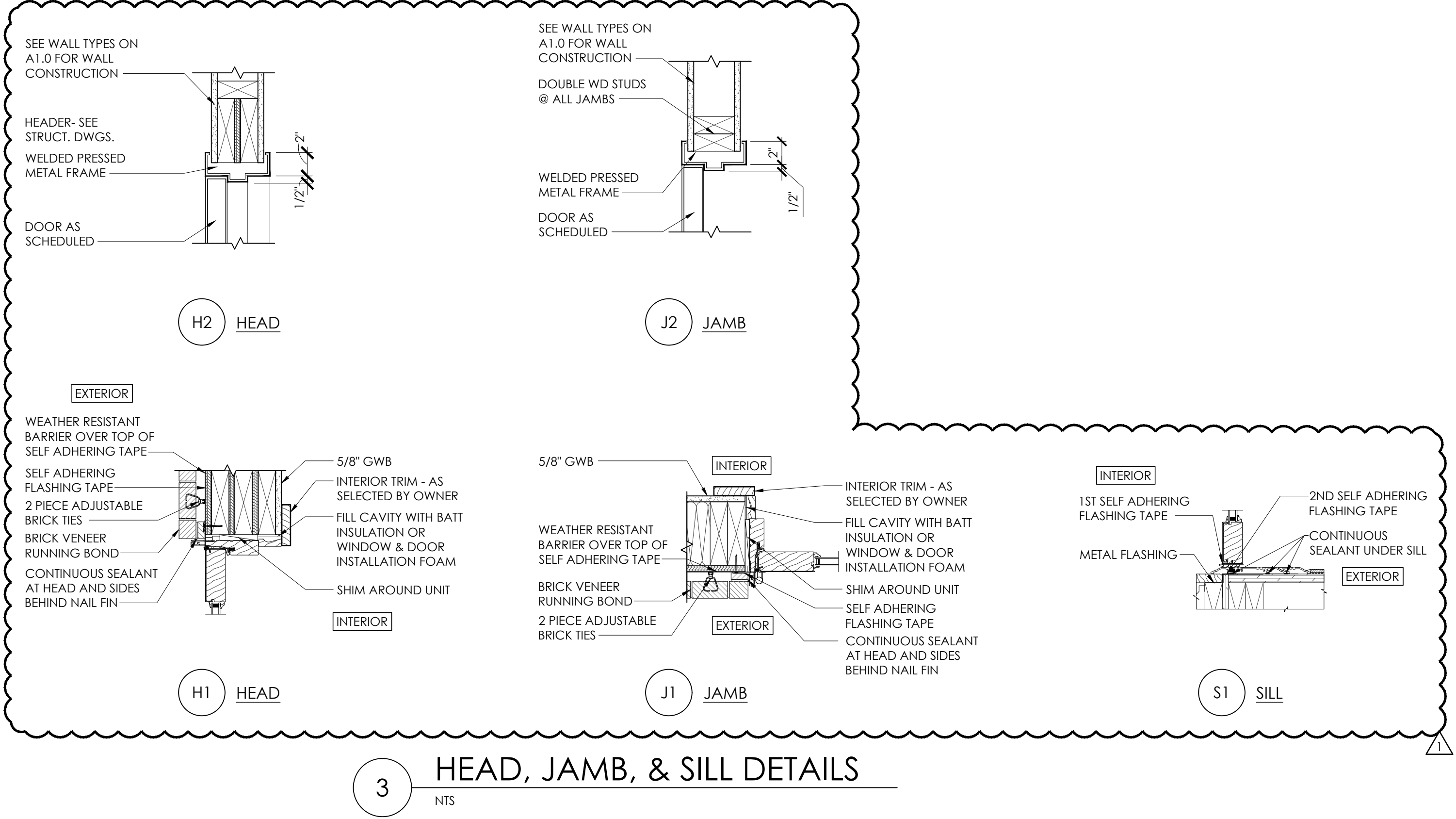
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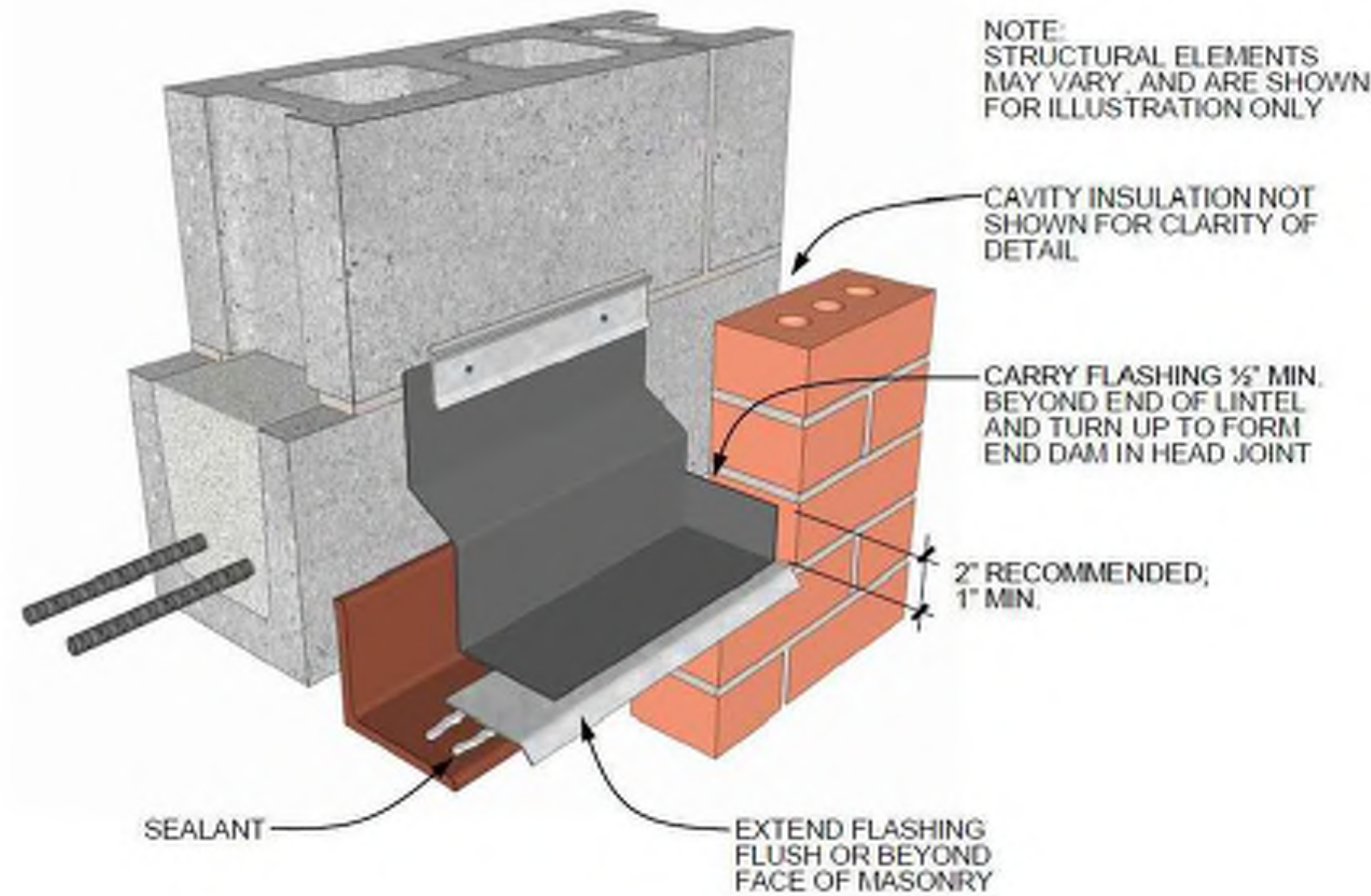
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EDGEFIELD COUNTY
FINANCE & HR OFFICE

A6.0

DOOR & WINDOW
SCHEDULES

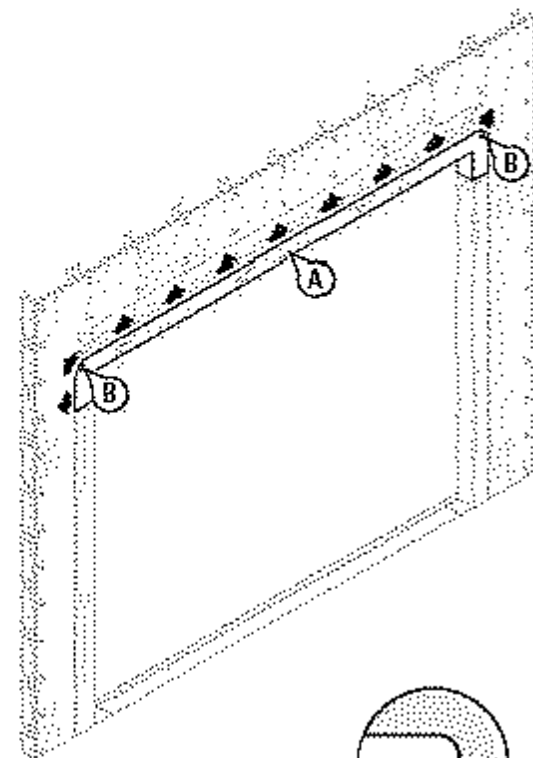




2 End Dam Detail

NTS

- STEP 9**
- A. Adhere DuPont™ FlexWrap™ or DuPont™ FlexWrap™ NF to the head. Make sure the DuPont™ FlexWrap™ is cut long enough to overlap the jamb flashing by at least 2".
 - B. Use DuPont™ Tyvek® Wrap Cap fasteners to temporarily secure the outer edge of the flashing at the upper corners. (Commercial Wrap Cap screws are recommended for steel stud framing.) Flashing bond will strengthen over time. If using DuPont™ FlexWrap™ NF fasteners are not required.
 - C. Use sufficient width of DuPont™ FlexWrap™ or DuPont™ FlexWrap™ NF to avoid reverse shingling of flashing at the jamb and head interface. See detail below.

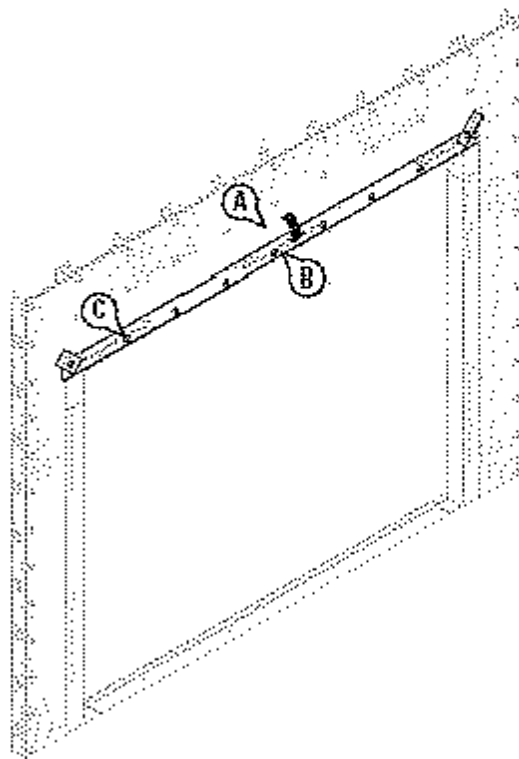


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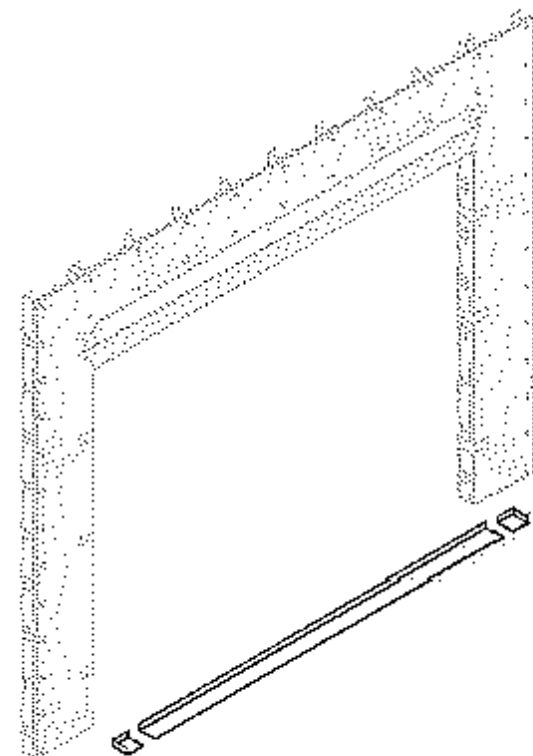
INCORRECT

CORRECT

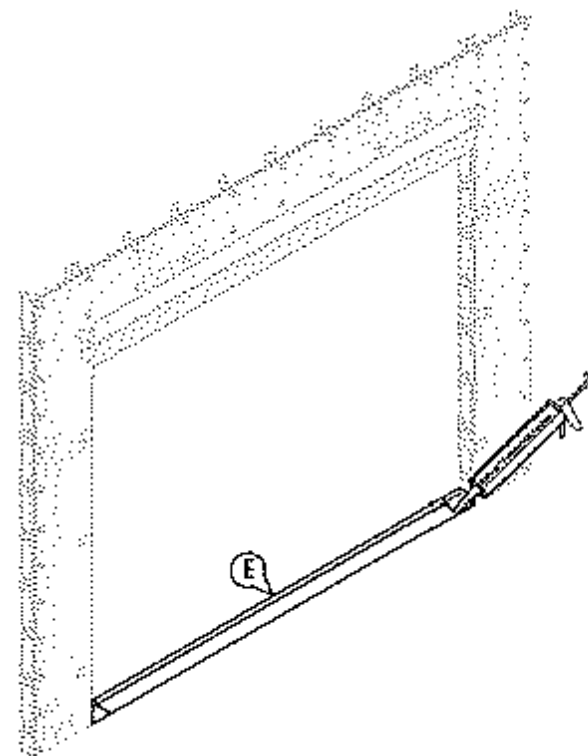
- STEP 10**
- A. Flip down the head flap and adhere 4" DuPont™ StraightFlash™ over the diagonal seams.
 - B. Tape along the top of the window with DuPont™ Tyvek® Tape or 4" DuPont™ StraightFlash™.
 - C. Install remaining DuPont™ Tyvek® Wrap Caps at head per the recommended spacing (every 12" to 18" depending on the vertical stud line).
 - D. Install store front window frame into opening per manufacturer's instructions.



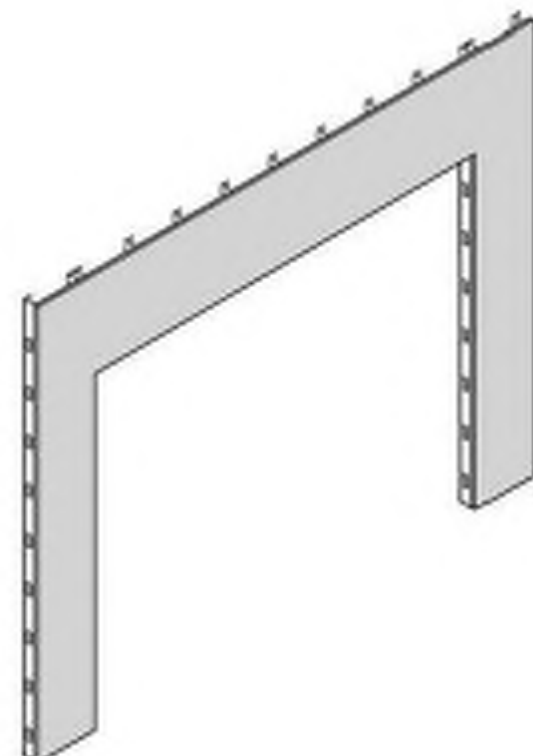
- STEP 5**
- A. Prepare the sill flashing per manufacturer's recommendation and seal the corner pan flashing with sealant.
 - B. Inspect installation surface to ensure surface is free of dirt or substances that could interfere with adhesion as well as any sharp protrusions.



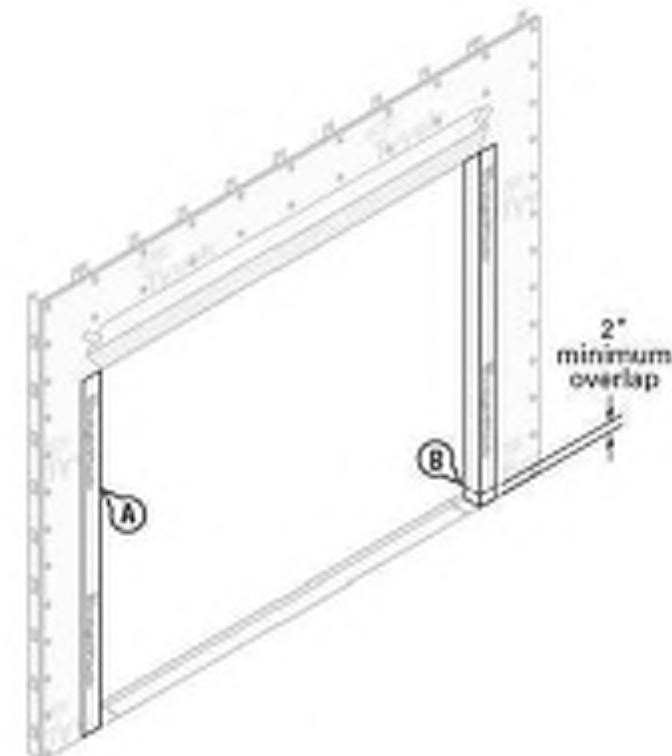
- STEP 6**
- A. Shim, level and anchor pan per manufacturer's instructions flashing to concrete.
 - B. Seal corner pan flashing seams with DuPont™ Commercial Sealant or recommended sealant.
- Option 2:** An alternate approved flashing method is to install DuPont™ StraightFlash™ using installation method outlined in "Non-Flange Aluminum Window Using DuPont™ StraightFlash™ VF" on page 41.



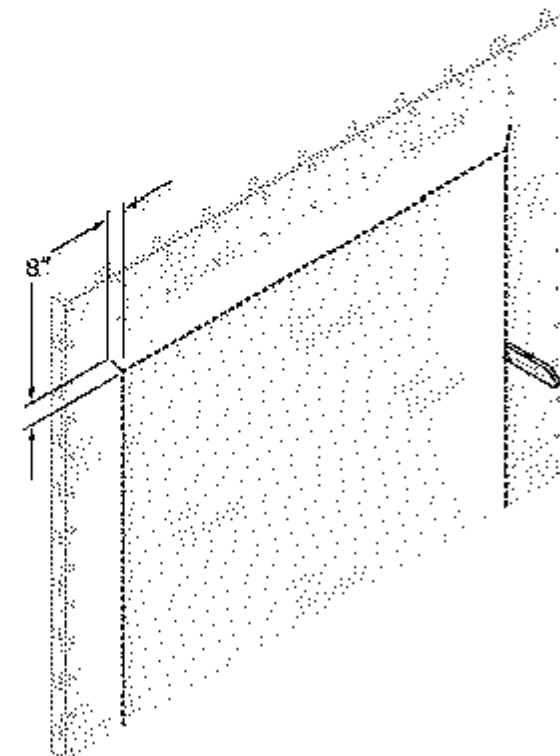
- STEP 2**
- A. Wrap wall as shown in Installation Guidelines for DuPont™ Tyvek® weather barrier that can be found at www.Weatherization.Tyvek.com.



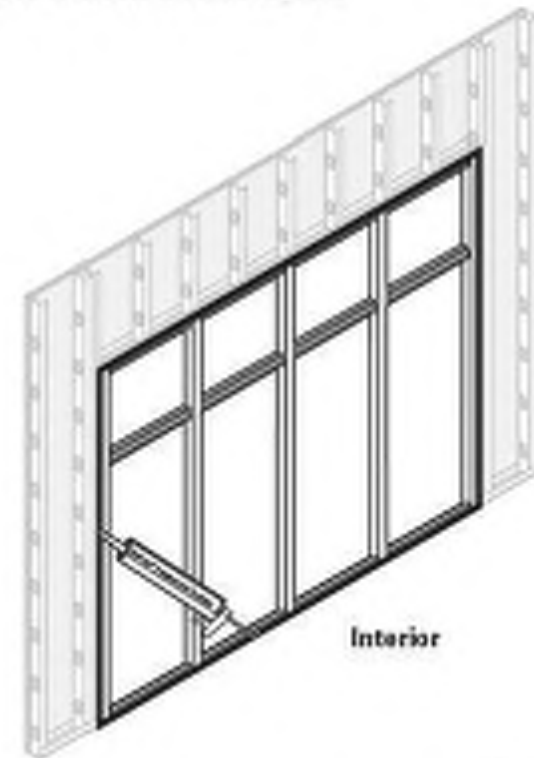
- STEP 7**
- A. Wrap 9" DuPont™ StraightFlash™ into the rough opening at each jamb and onto wall face. The flashing should align with the interior edge of the jamb forming. Cut the jamb flashing the vertical length of the rough opening.
 - B. Jamb flashing should be long enough to overlap the sill flashing by at least 2" and be overlapped by future head flashing by at least 2".



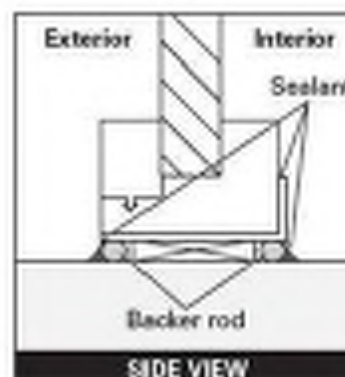
- STEP 3**
- Prepare weather barrier for window installation.
- A. Cut an opening in the DuPont™ Tyvek® weather barrier using a square cut around the perimeter of the rough opening.
 - B. Cuts should be made along the dashed indicated lines. (Ensure that the DuPont™ Tyvek® weather barrier is cut flush with the sheathing and is not wrapped into the rough opening.)
 - C. Cut a head flap at 45° angle to expose 6" of sheathing to allow for head flashing installation.



- STEP 12**
- A. Create a continuous perimeter seal with backer rod and DuPont™ Commercial Sealant or recommended sealant on window interior to resist air and water infiltration. DuPont™ Commercial Sealant should be tooled flat to allow the natural curing process to create a concave joint.

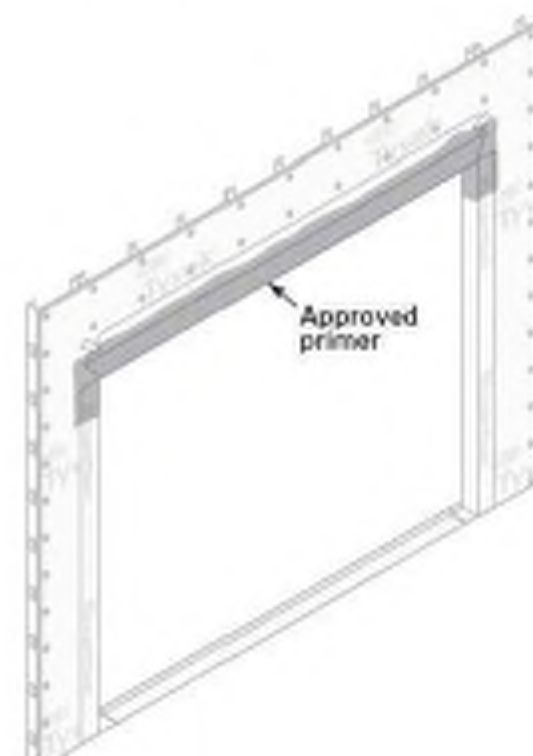


Interior



SIDE VIEW

- STEP 8**
- A. Apply the top of the jambs and exposed sheathing with recommended primer.



Approved primer



INCORRECT

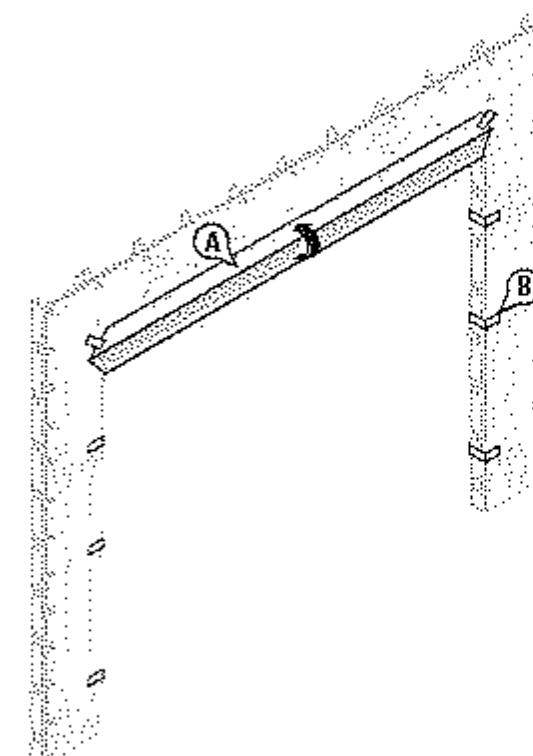


INCORRECT



CORRECT

- STEP 4**
- A. Flip the head flap up to expose the sheathing and temporarily secure with tape.
 - B. Temporarily secure DuPont™ Tyvek® weather barrier with DuPont™ Tyvek® Tape around rough opening before flashing is installed to help facilitate flashing installation.



Storefront Flashing Details

1 NTS



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SEAL



ECSD OFFICE EXPANSION

425 LEE ST
JOHNSTON, SC 29832

REVISIONS

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3,810 SQ. FT.
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EDGEFIELD COUNTY
FINANCE & HR OFFICE

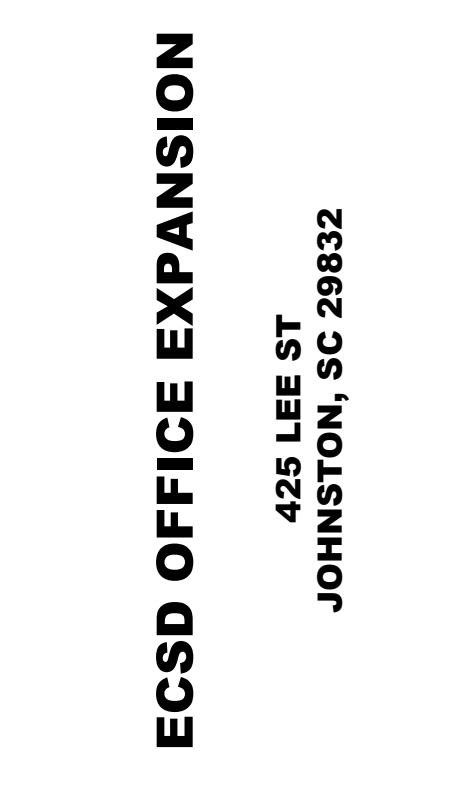
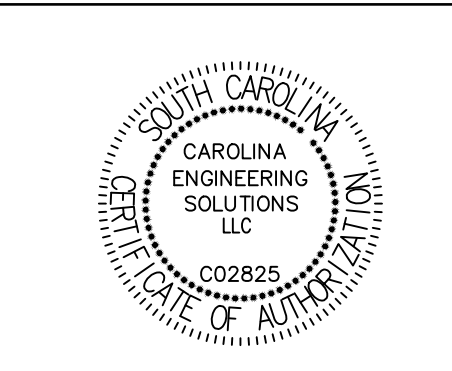
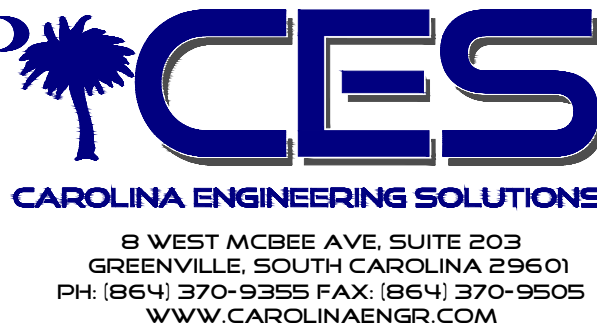
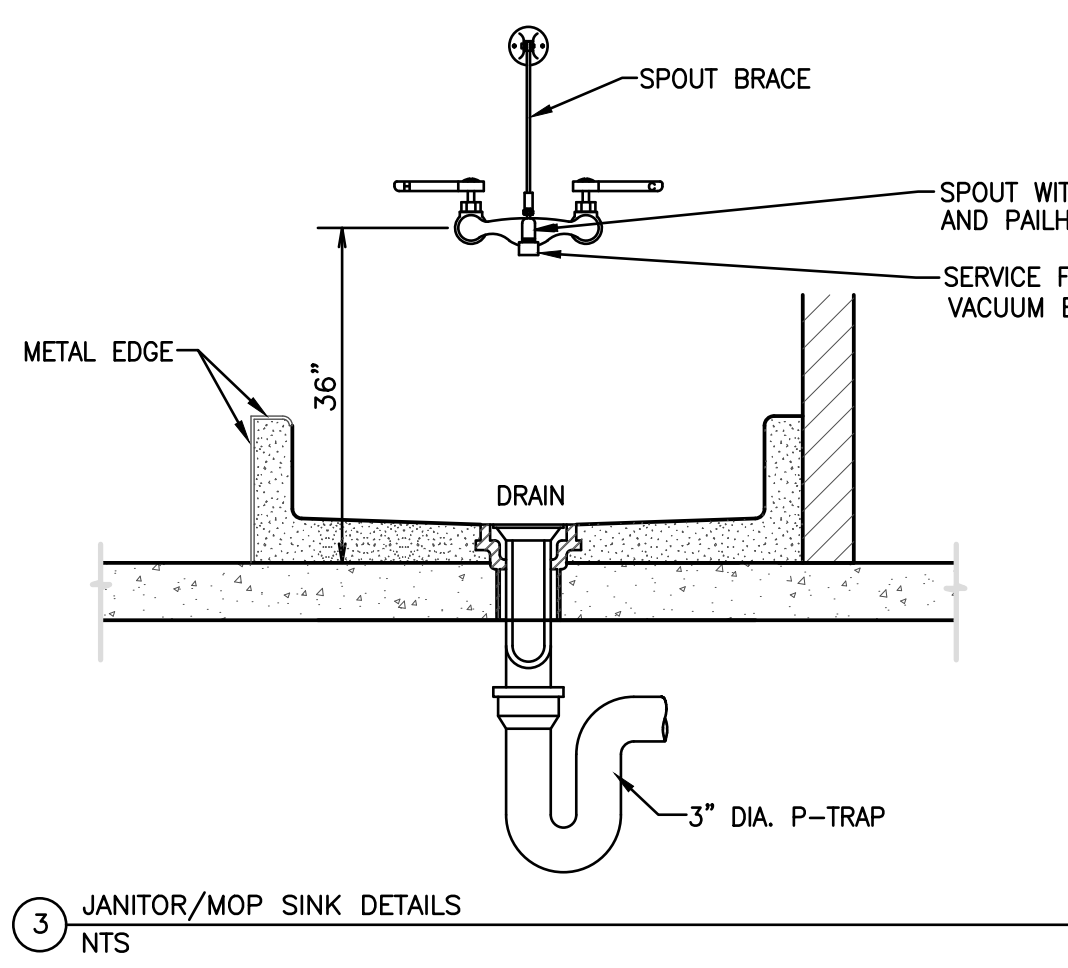
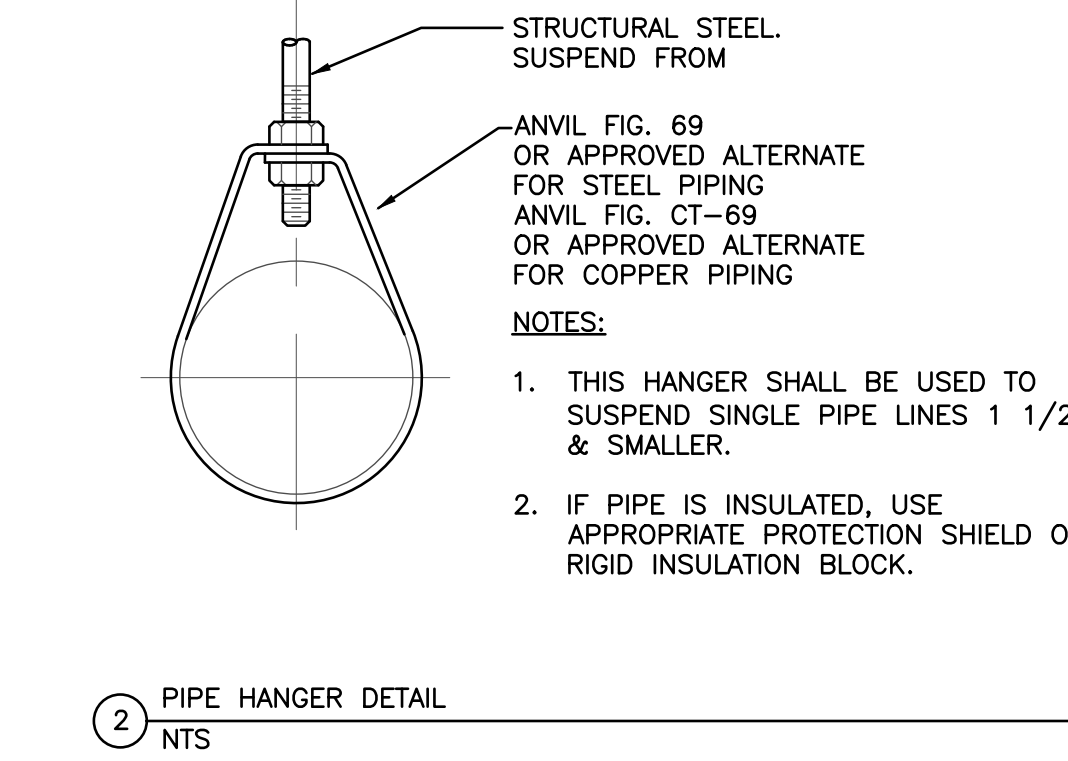
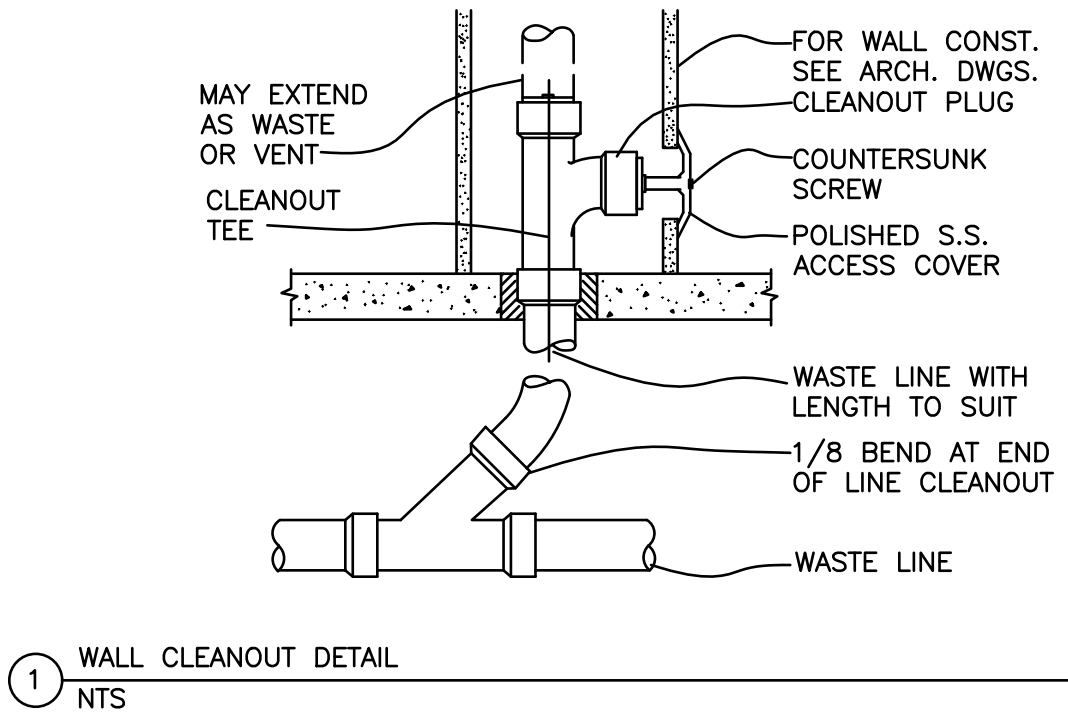
A6.1
EXTERIOR FLASHING
DETAILS

PLUMBING NOTES	
ALL MATERIALS AND EQUIPMENT SHALL BE OF NEW AND OF FIRST QUALITY. WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE FOR SUCH WORK. ALL INSTALLERS OF THE SYSTEMS SHALL BE TRAINED IN THE INSTALLATION OF THE TYPES OF SYSTEMS BEING INSTALLED.	
1. ALL WORK SHALL CONFORM TO THE 2021 INTERNATIONAL PLUMBING CODE, OSHA REQUIREMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS AND FINAL APPROVALS.	
2. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.	
3. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.	
4. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES, DIMENSIONS, INVERTS AND SIZES OF PIPING AND EQUIPMENT WITH THE CONTRACT DOCUMENTS AND CONDITIONS IN THE FIELD BEFORE FABRICATION OF ANY MATERIALS OR WORK TO BE PERFORMED.	
5. THE CONTRACTOR SHALL INSTALL SYSTEMS AS DESIGNED AND SET FORTH BY THE CONTRACT DOCUMENTS AND THE DESIGN CONCEPT INTENDED BY THE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES, AND THE SATISFACTORY PERFORMANCE OF THIS WORK.	
6. POTABLE HOT AND COLD WATER PIPE IN THE BUILDING SHALL BE ASTM B88 HARD COPPER TUBING, TYPE L WITH WROUGHT COPPER SOLDER JOINTS. GATE VALVES TO BE CRANE NO 1700 CLASS 125 BRONZE BODY, THREADED JOINT. FOR PIPING SIZES 1" AND SMALLER, ALTERNATE USE OF CROSS-LINKED POLYETHYLENE MADE BY "PEX" OR APPROVED EQUIVALENT PER ASTM F876/877.ADSF	
7. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.	
8. ALL HOT AND COLD DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FLEXIBLE UNICELLULAR PIPING INSULATION. ALL JOINTS TO BE BONDED WITH ADHESIVE. ALL PIPING IN ATTIC AREAS SHALL BE INSULATED WITH 1" FIBERGLASS AND RUN AGAINST THE TRUSS OF THE CEILING BELOW SO AS TO STAY CLOSE TO THE WARM SURFACE AND THEN COVERED WITH A BLANKET OF FIBERGLASS INSULATION	
9. ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL TO PREVENT FREEZE DAMAGE.	
10. ALL ABOVE GRADE AND BELOW GRADE DWV PIPING SHALL BE SCHEDULE 40 PVC.	
11. NON COMBUSTIBLE PIPING IS REQUIRED IN FIRE RATED WALLS AND IN PLENUM SPACES. THIS IS FOR ALL PIPING WATER, WASTE, VENT AND STORM.	
12. ALL SANITARY PIPING AND VENT PIPING LOCATED IN FIRE RATED WALL SHALL BE CAST IRON OR COPPER. COORDINATE LOCATIONS WITH ARCHITECT.	
13. PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY DRAINAGE, PROCESS WASTE, AND RAIN WATER CONDUCTORS.	
14. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.	
15. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.	
16. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED TO MAINTAIN THEIR RATING. FIRE STOP PRODUCTS TO INCLUDE HILTI, 3M, OR APPROVED EQUAL.	
17. ALL STUB INS AND/ OR SLAB OR WALL PENETRATION TO BE PER NFPA. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTING SHALL BE SLEEVED.	
18. PLUMBING CONTRACTOR SHALL FURNISH ACCESS PANEL, TO BE INSTALLED BY THE GENERAL CONTRACTOR, AS REQUIRED FOR PLUMBING SYSTEM INSTALLATIONS.	
19. ALL PIPING AND WATER HEATER SUPPORTS MUST MEET THE MANUFACTURERS' STANDARDIZATION SOCIETY SP-69. ALL THREADED ROD DIAMETERS SHALL BE 3/8" DIAMETER MINIMUM AND SUPPORTS SHALL BE SPACED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE. NO SEISMIC SUPPORTS ARE REQUIRED IF PIPING IS LESS THAN 1.5 INCHES IN DIAMETER AND IS HUNG WITHIN 12" OF CEILING SUPPORT STRUCTURE.	
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIGGING OF THE TRENCHES REQUIRED FOR THE UNDERGROUND PIPING AS INDICATED ON THE DRAWINGS WITH 4 FEET OF EXTERIOR WALL OUTSIDE THE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER BACKFILLING OF ALL TRENCHING AND TAMPING SO THAT SLABS CAST ABOVE THE LINES SHALL BE ADEQUATELY SUPPORTED. TRENCHES SHALL BE GRADED EVENLY ACCORDING TO THE STANDARD OF BEST PRACTICE SUCH THAT PIPE IS UNIFORMLY SUPPORTED.	
21. PRESSURE TESTING OF THE SUPPLY WATER AND DWV SYSTEMS SHALL BE DONE IN ACCORDANCE WITH THE IPC AND LOCAL INSPECTION REQUIREMENTS.	
22. ALL POTABLE WATER SYSTEM PIPING, FITTINGS AND FIXTURES SHALL BE STERILIZED AND FLUSHED PRIOR TO USE IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN WATER WORKS ASSOCIATION STANDARDS.	
23. PLUMBING CONTRACTOR SHALL PROVIDE BACTERIOLOGICAL REPORT FOR THE WATER SUPPLY PRIOR TO REQUESTING FINAL INSPECTION.	
24. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT THE COLD WATER SUPPLY FROM THE WATER MAIN HAS A BACK FLOW PREVENTOR INSTALLED BEFORE CONNECTING THE SUPPLY PIPING. IF NOT THE CONTRACTOR SHALL INSTALL BACKFLOW PREVENTION DEVICE. THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.	
25. PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES TO PLUMBING EQUIPMENTS OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT.	
26. ALL NATURAL GAS PIPING SHALL MEET THE MOST CURRENT EDITION OF THE NATURAL GAS CODE AND INTERNATIONAL MECHANICAL CODE. STEEL PIPING IS THE STANDARD FOR THIS DESIGN BUT OTHER FLEXIBLE AND PLASTIC PIPING MAY BE UTILIZED IF INSTALLED PER MANUFACTURERS' STANDARDS AND ARE ACCEPTABLE FOR LOCAL CODES. OUTSIDE STORAGE OF ANY PLASTIC PIPING SHALL BE RESTRICTED PER MANUFACTURERS' STANDARDS. INSTALLING PLASTIC NATURAL GAS PIPING IN AREAS OF HIGH LIGHT INTENSITY OR HEAT SOURCES SHALL NOT BE ALLOWED.	
27. PORTIONS OF A GAS PIPING SYSTEM INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBE FITTINGS OR RUNNING THREADS.	
28. PAINT ALL EXTERIOR ROUTED NATURAL GAS PIPING WITH 1 PRIMER COAT, 2 FINAL COATS OF RUST INHIBITOR SAFETY YELLOW.	
29. EXPOSED PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET. ALL PIPING AND TUBING SYSTEMS, GREATER THAN 0.5-POUNDS PER SQUARE INCH SERVICE PRESSURE, SHALL BE IDENTIFIED BY A YELLOW LABEL WITH BLACK LETTERS INDICATING THE PIPING SYSTEM PRESSURE. THE SYSTEM SHALL BE MARKED AT THE BEGINNING, ALL ENDS AND AT INTERVALS NOT EXCEEDING 5 FEET ALONG ITS EXPOSED LENGTH.	
30. NATURAL GAS PIPING IS SIZED FOR 2 PSI BLDG. SIDE GAS PRESSURE, CONTRACTOR TO VERIFY W/ GAS CO. FOR SVC. PRESSURE PROVIDED.	
31. ALL ROOF DRAIN PIPING SHALL BE SCH. 40 PVC W/ 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET. IF PIPING IS ROUTED IN A PLENUM SPACE, PIPING SHALL BE SCH. 40 CAST IRON WITH 1" FIBERGLASS INSULATION.	

ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AHU	AIR HANDLING UNIT	MTD	MOUNTED
BFF	BELOW FINISHED FLOOR	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	NTS	NOT TO SCALE
BOP	BOTTOM OF PIPE	NG	NATURAL GAS
CHWP	CHILLED WATER PUMP	ORD	OVERFLOW ROOF DRAIN
CHWR	CHILLED WATER RETURN	OVHD	OVERHEAD
CHWS	CHILLED WATER SUPPLY	PC	PLUMBING CONTRACTOR
CONT	CONTINUATION	PRV	PRESSURE REDUCING VALVE
CO	CLEAN OUT	RD	ROOF DRAIN
COORD	COORDINATE	SS	SANITARY SEWER
CW	COLD WATER	T&P	TEMPERATURE & PRESSURE
DN	DOWN	TYP	TYPICAL
FD	FLOOR DRAIN	TW	TEMPERED HOT WATER
FCO	FLOOR CLEAN OUT	V	VENT
FS	FLOOR SINK	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	W	WASTE
GPH	GALLONS PER HOUR	W/	WITH
GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
HB	HOSE BIBB	WH	WATER HEATER
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTER
HW	HOT WATER	WHD	WALL HYDRANT
HWR	HEATING HOT RECIRCULATION	YCO	YARD CLEANOUT
IE	INVERT ELEVATION		
NOT ALL ABBREVIATIONS ARE USED			

PLUMBING FIXTURE SCHEDULE						
ITEM	DESCRIPTION	FIXTURE	WASTE	VENT	HOT SUPPLY	COLD SUPPLY
WC-1A	AMERICAN STANDARD CADET 3, 16-1/2"H, WHITE, VITREOUS CHINA, FLUSH TANK, 1.6 GPF, ELONGATED BOWL, OPEN FRONT SEAT WATER CLOSET OR EQUAL. TANK HANDLES SHALL BE ON RIGHT OR LEFT SIDE, TO MATCH THE WIDE SIDE OF THE HANDICAPPED STALL OR EQUAL.	FLOOR MOUNTED WATER CLOSET FLUSH TANK (HANDICAP ACCESSIBLE)	4	2	-	1/2
LAV-1A	AMERICAN STANDARD LUCERNE, 20-1/2" x 18-1/4" SQUARE SINK, VITREOUS CHINA, WALL-HUNG LAVATORY WITH FAUCET HOLES ON 4" CENTERS W/ T&S BRASS SENSOR BATTERY ELECTRONIC FAUCETS DECK MOUNT FAUCET #EC-3104-VF05, ANGLE STOP SUPPLIES WITH TUBES & ESCUTCHEONS, P-TRAP AND J.R. SMITH CONCEALED ARM CARRIER. MOUNT TOP OF RIM 34" AFF OR EQUAL WITH A.D.A. APPROVED, PREMOLDED INSULATED COVERS FOR WASTE & SUPPLIES BELOW LAVATORY.	WALL HUNG LAVATORY (HANDICAP ACCESSIBLE)	2	1 1/2	1/2	1/2
JS-1	FIAT FLOOR MOUNTED MSBID2424, FAUCET- 830-AA W/ VACUUM BREAKER, HOSE & HOSE BRACKET #832-AA, MOP BRACKET 889-CC, BUMPERGUARDS #1239BB & MSG2424 WALL GUARDS - STAINLESS STEEL OR EQUAL.	MOP SINK	3	1 1/2	3/4	3/4
SINK-1	ELKAY MODEL LR-1720, 17x20x7 1/2, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF- RIMMING, SINGLE BOWL SINK WITH THREE FAUCET HOLES OR EQUAL. PROVIDE WITH T&S BRONZE #B-2866-05 GOOSENECK FAUCET OR EQUAL. ANGLE STOP SUPPLIES WITH TUBES & ESCUTCHEONS AND P-TRAP OR EQUAL.	SINGLE BOWL SINK	2	1 1/2	1/2	1/2
DF-1	ELKAY MODEL EZSTL8LC, TWO LEVEL, WALL MOUNTED, BARRIER-FREE ELECTRIC WATER COOLER WITH FRONT AND SIDE, EASY TOUCH CONTROLS, FLEXI-GUARD SAFETY BUBBLER AND EXTRA DEEP BASIN OR EQUAL. 115V, 8 GPH, 370 WATTS OR EQUAL.	ELECTRIC WATER COOLER (BI-LEVEL)	2	1 1/2	-	1/2
RD	JR SMITH SERIES 1310 ADJ. EXTENSION ROOF DRAIN W/ UNDERDECK CLAMP, CAST IRON DOME OR EQUAL.	ROOF DRAIN	SEE PLAN	-	-	-
WHD	WOODFORD #65, AUTOMATIC DRAINING, FREEZEPROOF WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY OR EQUAL.	EXTERIOR WALL HYDRANT	-	-	-	3/4
HB	WOODFORD #24, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL HYDRANT OR EQUAL.	HOSE BIBB	-	-	-	3/4
WCO	WALL CLEANOUT-ZURN MODEL Z-1441-A-BP WITH BRASS PLUG AND STAINLESS STEEL COVER OR EQUAL.	WALL CLEANOUT	SEE PLAN	-	-	-
GENERAL PLUMBING FIXTURE NOTES: (THESE NOTES APPLY TO ALL APPLICABLE PLUMBING FIXTURES)						
1. ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL HAVE SHUT-OFF VALVES.						

PLUMBING LEGEND & SYMBOLS			
----	HOT WATER (DOMESTIC)		TEMPERATURE/PRESSURE RELIEF VALVE
-----	SANITARY WASTE PIPING		RELIEF/SAFETY VALVE
-----	SANITARY VENT PIPING		GAS COCK
----	COLD WATER (DOMESTIC)		FLOOR DRAIN
—G—	NATURAL GAS PIPING		FLOOR CLEANOUT
— —	WALL CLEANOUT		FLOOR SINK
----	HOT WATER RETURN (DOMESTIC)		PIPE RISING UP
—CD—	CONDENSATE DRAIN PIPING		PIPE DROPPING DOWN
—GW—	GREASE WASTE PIPING		WATER HAMMER ARRESTER
—TW—	TEMPER WATER 105°F		CONCENTRIC REDUCER
—+—	WALL HYDRANT OR HOSE BIBB		UNION - SCREWED OR FLANGED PUMP
	GATE VALVE		GAS PRESSURE REGULATOR
	BALL VALVE		
	PRESSURE REDUCING VALVE (PRV)		



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EDGEFIELD COUNTY FINANCE & HR OFFICE

P1.0 PLUMB. DETAILS NOTES & SCHEDULES

REVISIONS

1 RESTROOM/FOUNTAIN 11/19/24

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PROJECT NUMBER

24124

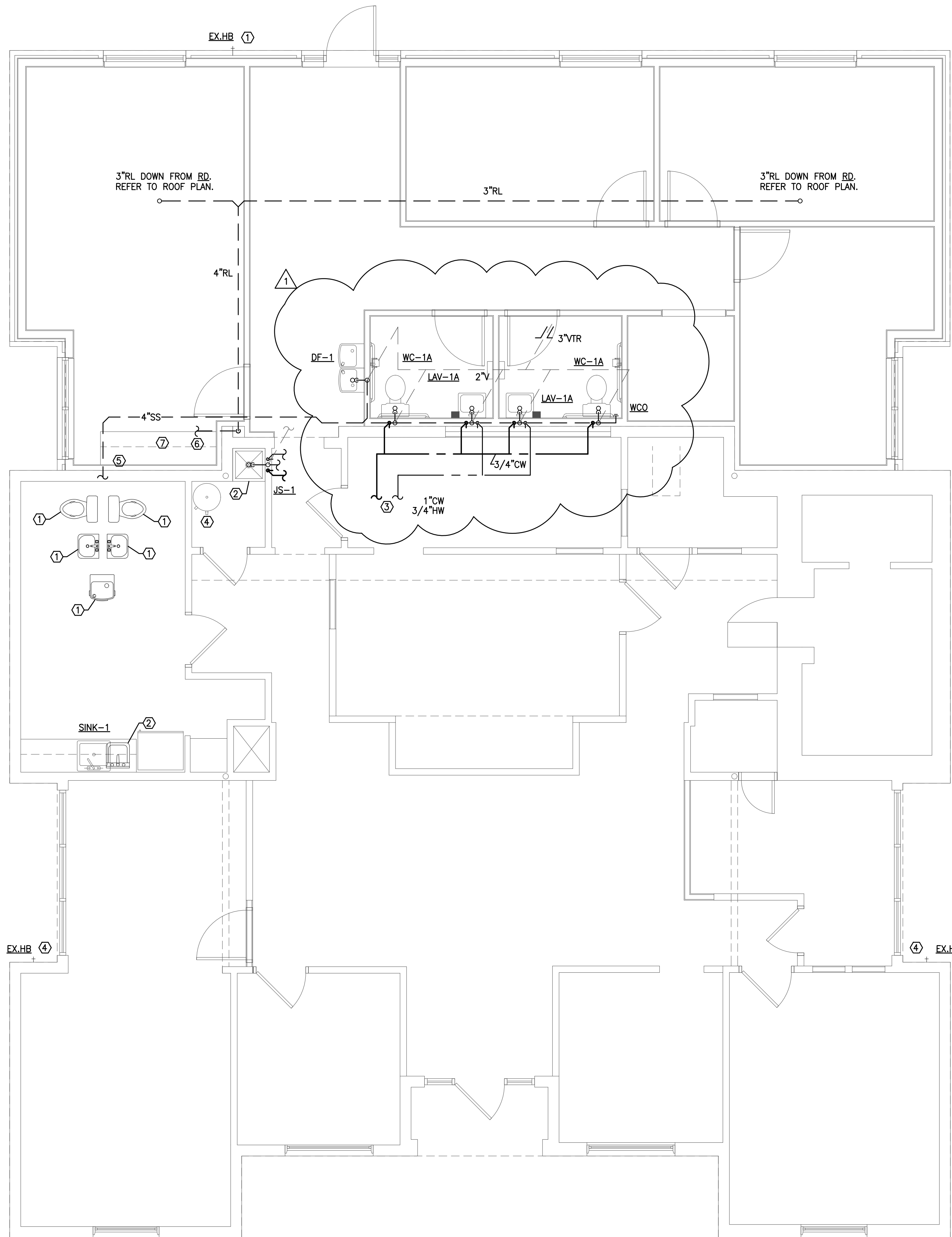
ISSUE DATE

10-14-24

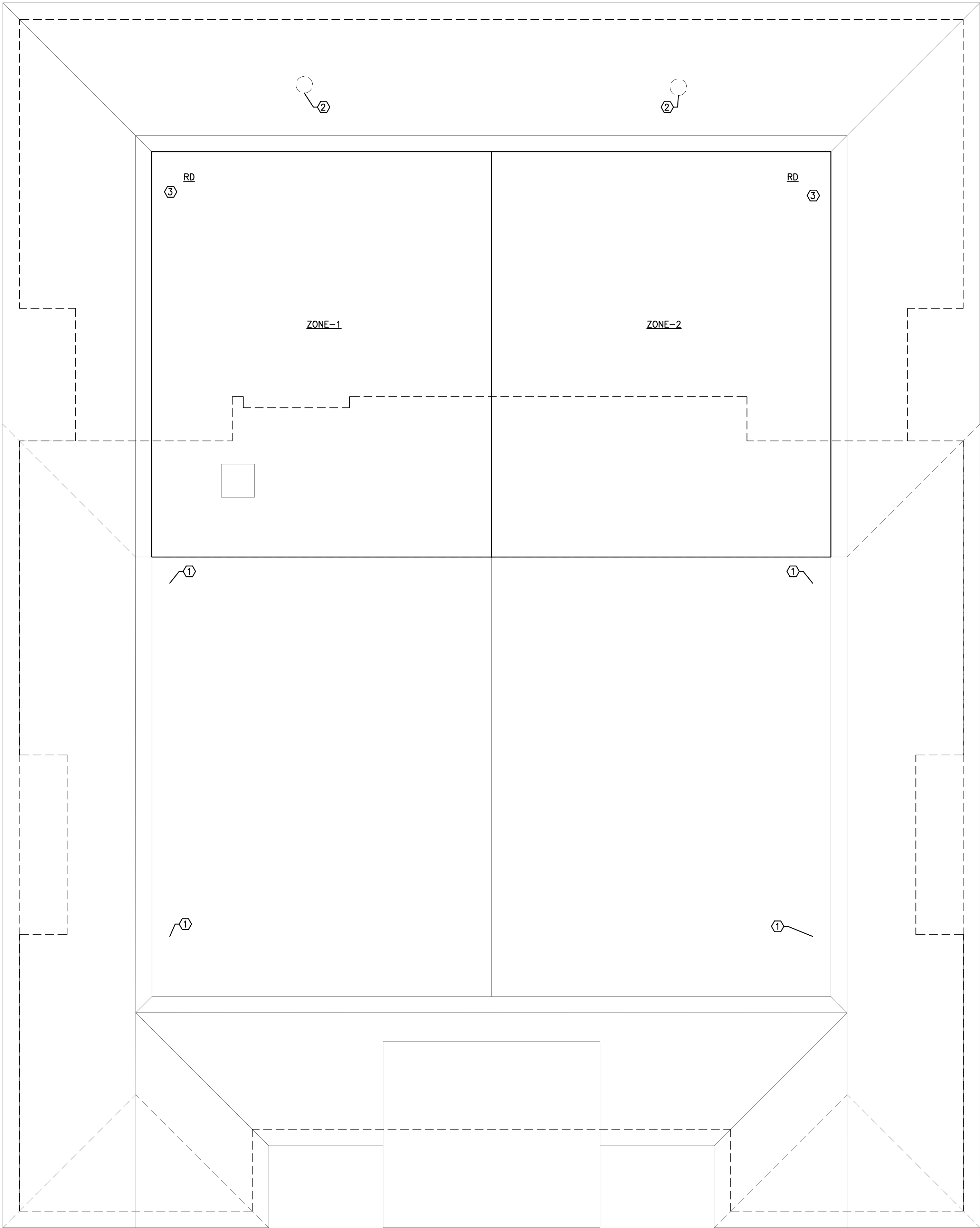
EDGEFIELD COUNTY
FINANCE & HR OFFICE

P2.0

PLUMBING
PLAN



① OVERALL PLUMBING PLAN
1/4" = 1'-0"



1 PLUMBING PLAN ROOF
1/4" = 1'-0"

ROOF DRAIN CALCULATIONS						
SECTION OF NEW ROOF	ROOF AREA (SQFT)	SPILL AREA (SQFT)	PARAPET WALL AREA (SQFT)	RAINFALL PER HOUR (IN)	TOTAL AREA (SQFT)	GPM
ZONE-1	500	45	188	4	639	26.58
ZONE-2	500	45	188	4	639	26.58

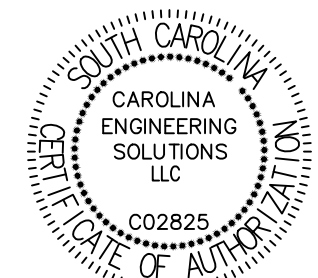
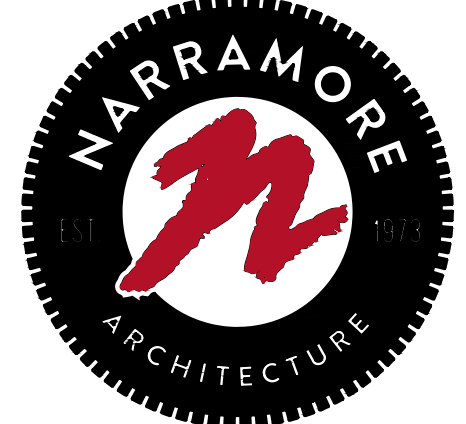
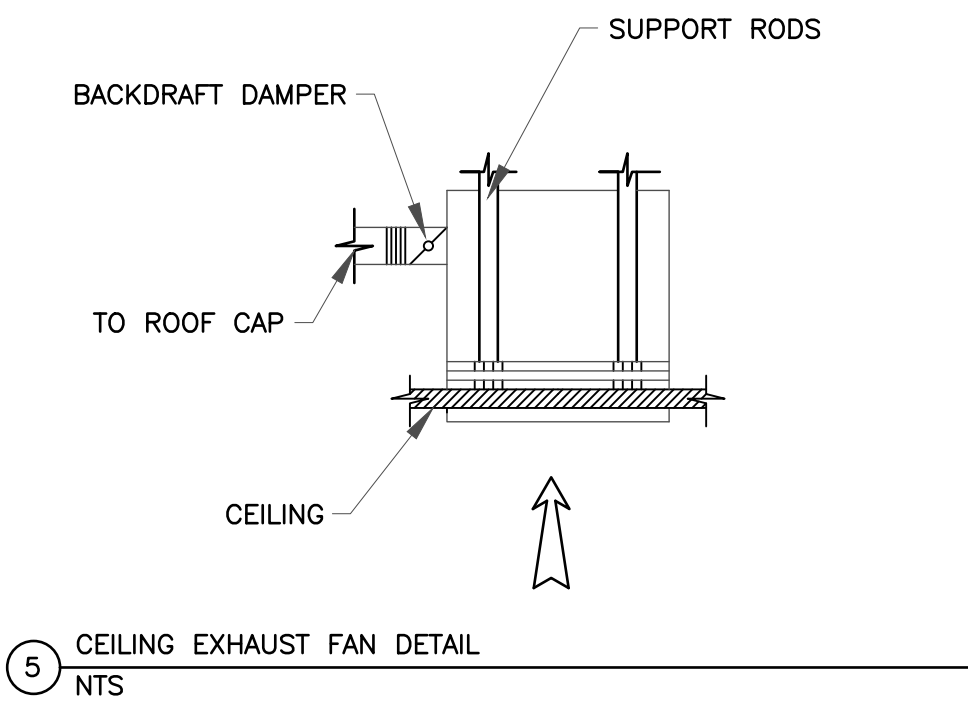
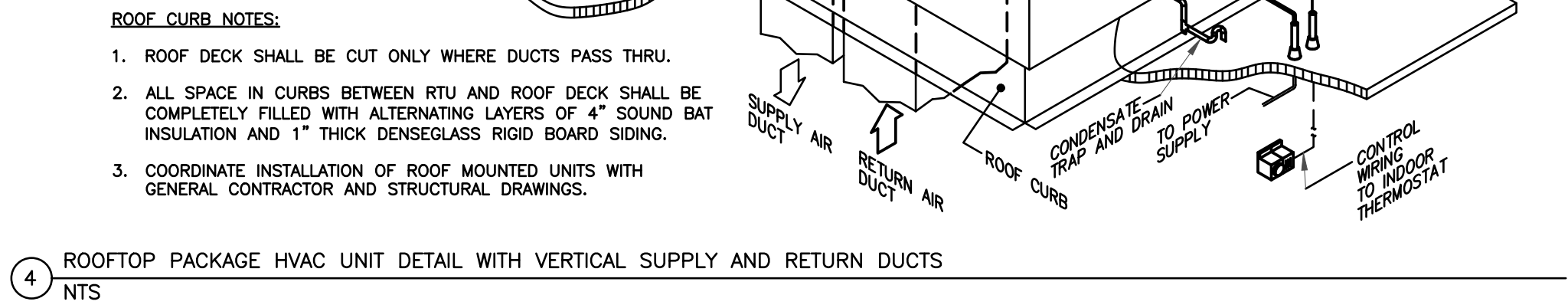
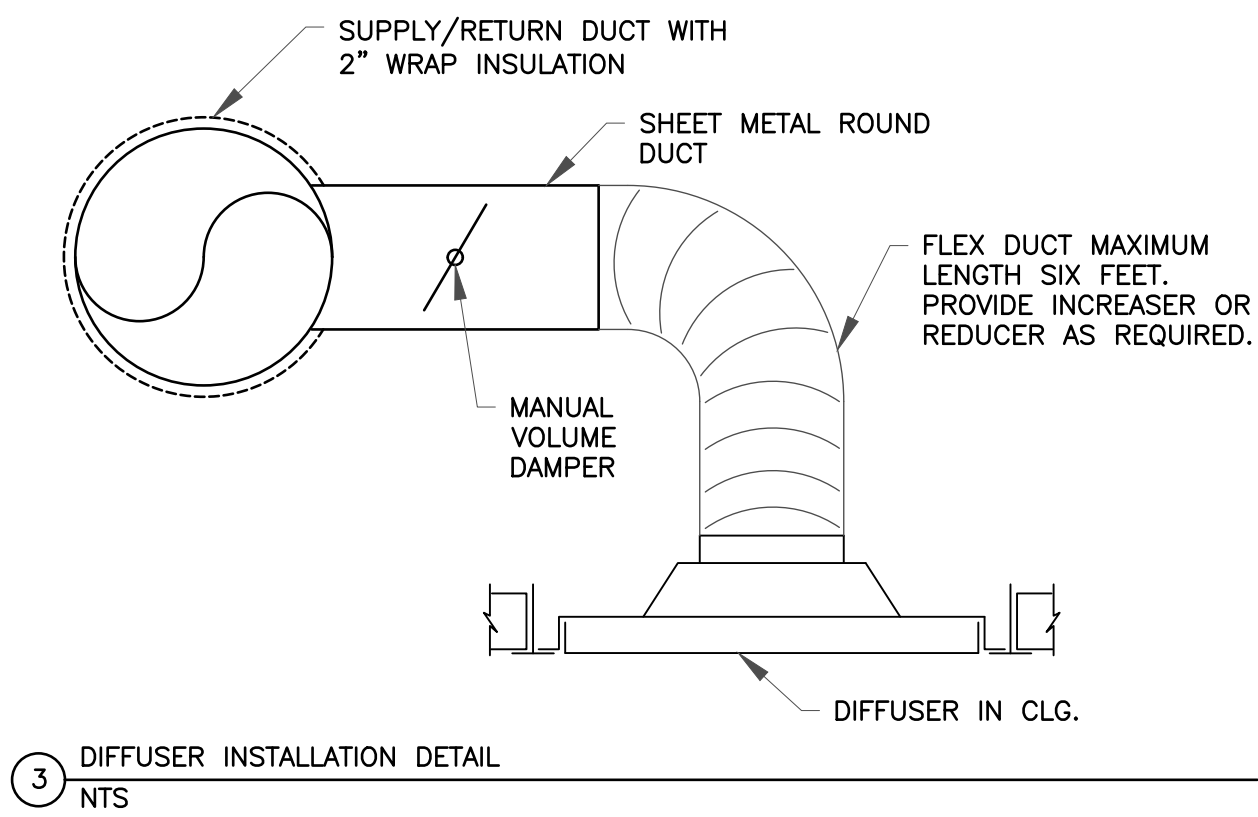
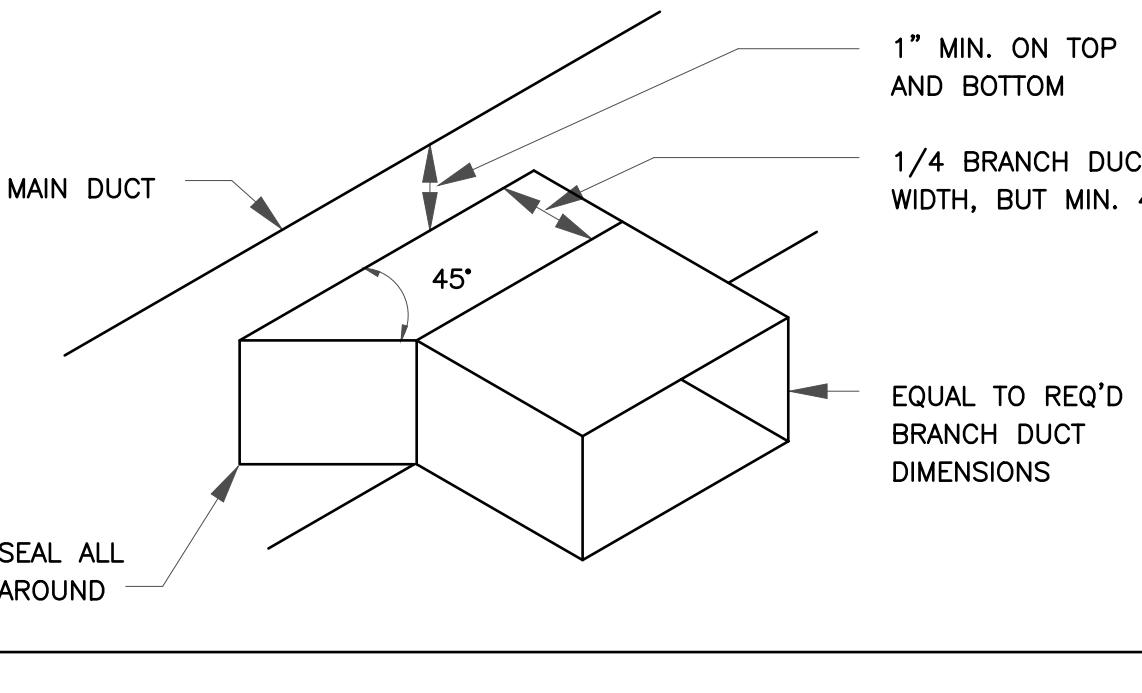
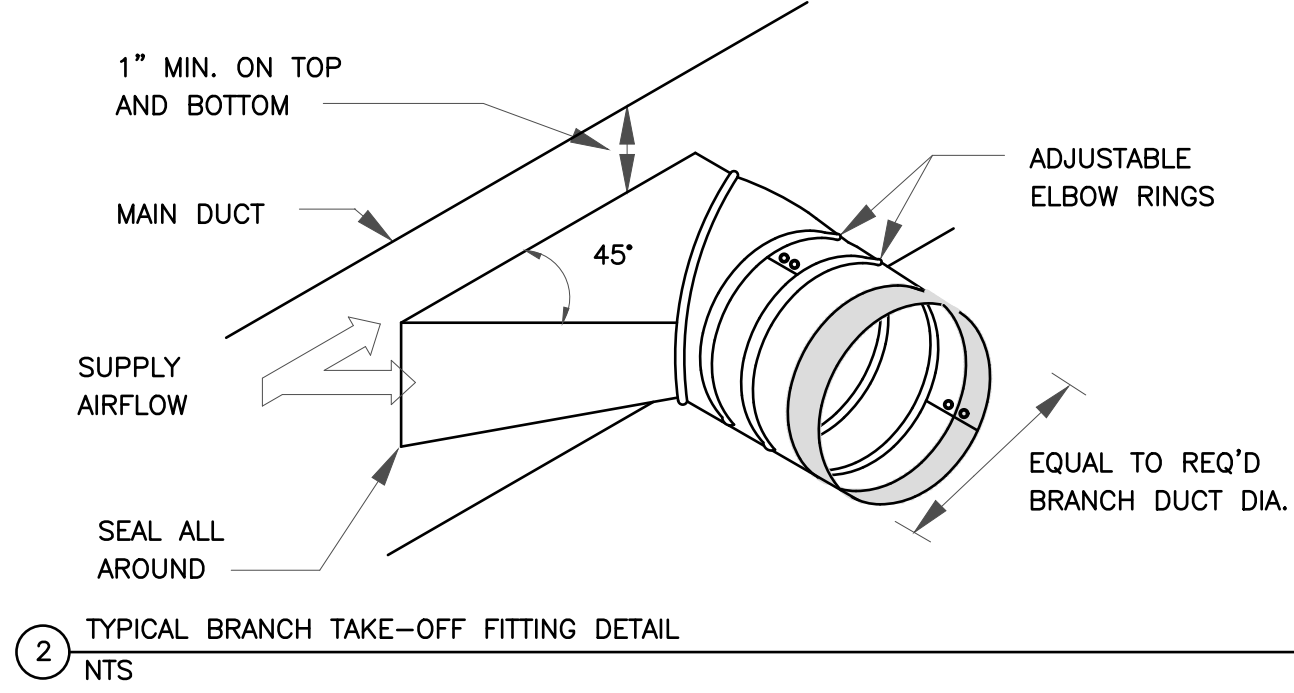
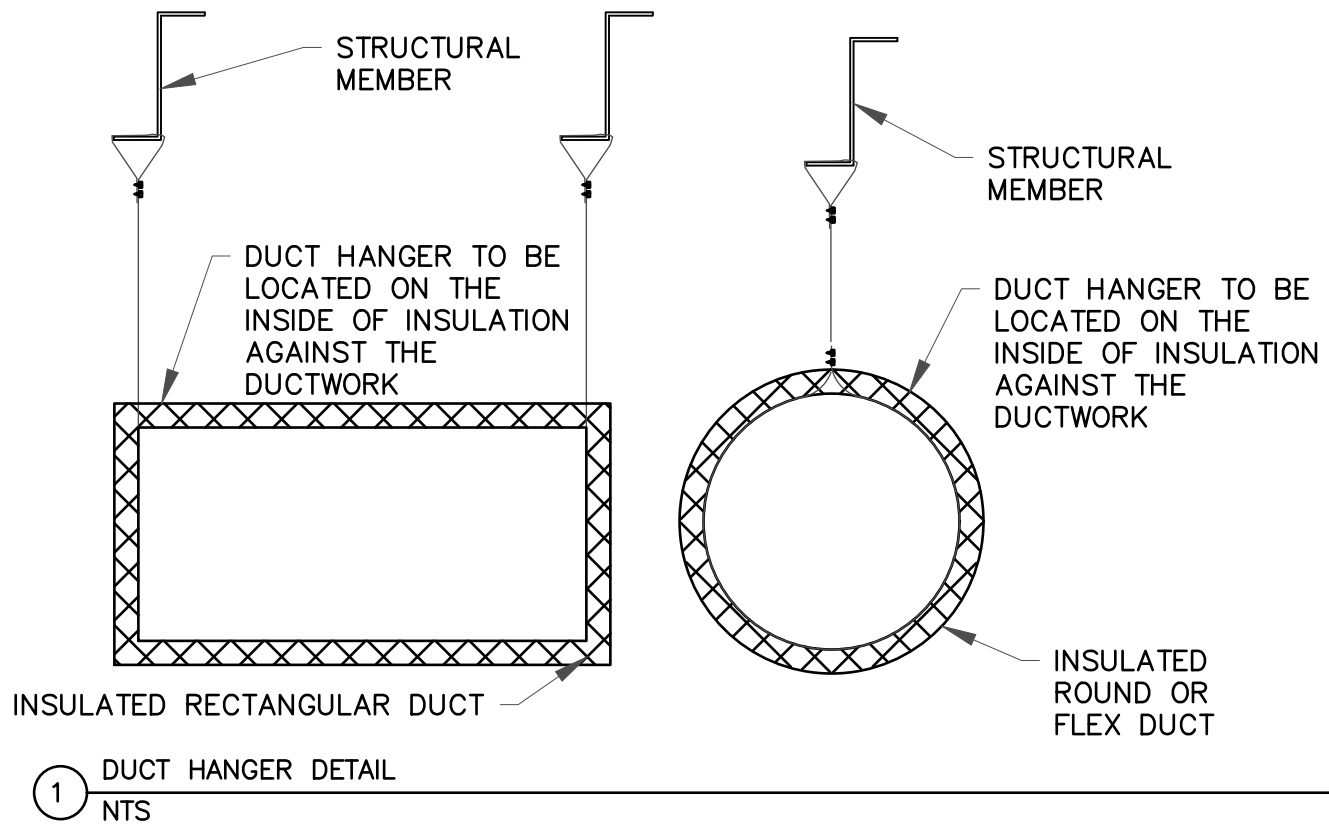
PLUMBING KEYED NOTES:

- 1 EXISTING ROOF DRAIN TO REMAIN.
- 2 DEMO EXISTING ROOF DRAIN AND UNUSED PIPING.
- 3 NEW ROOF DRAIN DOWN TO 3"RL. REFER TO PLUMBING PLAN AND SCHEDULE.

MECHANICAL NOTES
ALL MATERIALS AND EQUIPMENT SHALL BE OF NEW AND OF FIRST QUALITY. WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE FOR SUCH WORK. ALL INSTALLERS OF THE SYSTEMS SHALL BE TRAINED IN THE INSTALLATION OF THE TYPES OF SYSTEMS BEING INSTALLED.
1. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL VERIFY EXISTING EQUIPMENTS LOCATIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
3. FIRE DAMPERS – FIRE DAMPERS SHALL BE USED WHERE DUCTWORK PENETRATES WALLS, FLOORS AND CEILINGS IN A FIRE RATED ASSEMBLY. FIRE STOPPING IS TO BE INSTALLED IN ALL SYSTEMS WHERE A FIRE WALL OR FIRE BARRIER IS PENETRATED. FIRE RATED CAULK SHALL BE USED TO SEAL ALL PENETRATIONS THROUGH FIRE RATED ROOMS FROM ALL MECHANICAL WORKMANSHIP INCLUDING, BUT NOT LIMITED TO CONTROL WIRING; CONDENSATE LINES; MECHANICAL PIPING/LINES SET GOING UP THROUGH FIRE RATED WALL SHALL BE UL CLASSIFIED FOR FIRE RATED WALL. PIPE INSULATION FOR PIPING SHALL MEET UL CLASSIFICATION FOR FIRE RATED WALL.
4. MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND SHALL HAVE MANUFACTURERS' INSTALLATION INSTRUCTIONS ON SITE DURING FINAL INSPECTION.
5. THESE DRAWINGS ARE OF A SCHEMATIC NATURE AND THE CONTRACTOR MUST OBTAIN ANY ADDITIONAL INFORMATION REQUIRED FOR THE WORK AND INTERFACE WITH OTHER DISCIPLINES ON SITE.
6. PREPARED OF THESE DRAWINGS SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY, PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR.
7. SUBSTITUTIONS – ALL PRODUCTS LISTED ARE TO ESTABLISH DESIGN AND QUALITY STANDARDS, NOT TO LIMIT SUBMITTALS. CONTACT ENGINEER IN WRITING PRIOR TO BID WITH ANY QUESTIONS. ALL SUBSTITUTIONS MUST BE SUBMITTED IN WRITING WITHIN 10 DAYS AFTER BID OR SUPPLY AS SPECIFIED. HIGHLIGHT SUBSTITUTION DEVIATIONS FROM MATERIALS SPECIFIED. COST INCURRED TO MODIFY PROJECT TO INSTALL SUBSTITUTED MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUESTING THE SUBSTITUTION.
8. RIGID DUCTWORK SHALL BE GALVANIZED SHEET METAL. DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA MANUAL. ALL DIMENSIONS ARE NET INSIDE CLEAR. PROVIDE FLEX CONNECTIONS AT ALL EQUIPMENT. PROVIDE TURNING VANES IN RECTANGULAR DUCT. FLEX DUCTWORK IS ALLOWED FOR THE FINAL 14 FEET OF DUCT LEADING UP TO GRILLES, DIFFUSERS AND AIR TERMINATION DEVICES UNLESS OTHERWISE SPECIFIED ON THE MECHANICAL PLANS.
9. COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
10. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH CEILING AND LIGHTING LAYOUT ON SITE BEFORE CONSTRUCTION IS TO BE STARTED. ANY INTERFERENCES IS TO BE CORRECTED BY MECHANICAL CONTRACTOR OR REPORTED TO GENERAL CONTRACTOR.
11. AIR HANDLER DRAIN PANS SHALL BE FABRICATED FROM 1½"x1½"x¾" ANGLE IRON MINIMUM AND SUPPORTED BY ¾" THREADED ROD ATTACHED TO STRUCTURE. FORMED SHEET METAL DRAIN PANS OF EQUAL STRENGTH ARE ACCEPTABLE WHERE EQUIPMENT IS LOCATED ON SLAB FLOORS OR PLATFORMS.
12. ALL CONDENSATE DRAINS SHALL HAVE AUTOMATIC SENSORS IN SECONDARY DRAIN PAN CONNECTED TO THE AIR HANDLER TO SHUT DOWN SYSTEM ON FAILURE OF DRAINS OR HAVE A SECOND CONDENSATE DRAIN INSTALLED. IF USING SECOND CONDENSATE DRAIN METHOD, TERMINATION SHOULD BE IN CONSPICUOUS SPOT TO ALERT OWNER OF DRAIN ISSUES.
13. ALL SUPPLY BRANCHES AND OUTDOOR INTAKES SHALL HAVE MANUAL BALANCING DAMPERS UNLESS OTHERWISE NOTED.
14. DUCT TRANSITIONS FOR INTERFERENCE ISSUES CAN BE MADE USING EQUIVALENT AREA.
15. MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND SIDES TO KEEP DUCTWORK AS HIGH AS POSSIBLE. TAPS, TAKE-OFFS AND SPIN IN FITTINGS ARE NOT ACCEPTABLE IN THE END OF CAPPED DUCTS AND SHOULD BE PLACED NOT LESS THAN 12" FROM THE END OF THE DUCT LINE FOR PRESSURIZATION. OPENINGS THROUGH WALLS, FLOORS AND ROOFS SHALL BE FLASHED AND SEALED WATER TIGHT AND SHALL BE PER CODE.
16. ALL INTAKE OPENINGS MECHANICAL AND GRAVITY OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SUCH AS VENTS, CHIMNEYS, PLUMBING VENTS, STREETS, ALLEYS, PARKING LOTS AND LOADING DOCKS UNLESS OTHERWISE SPECIFIED IN CODE. WHERE A SOURCE OF CONTAMINANT IS LOCATED WITHIN 10 FEET OF AN INTAKE OPENING, THE OPENING SHALL BE LOCATED MINIMUM OF 2 FEET BELOW CONTAMINANT SOURCE. THE INTAKE OPENINGS SHALL HAVE RAIN HOODS, BIRD SCREENS AND LOUVERS SUPPLIED BY CONTRACTOR.
17. CONDENSATE DISPOSAL SHALL COMPLY WITH SECTION 307.2.1 OF THE IMC CODE BY EITHER DISCHARGE TO THE OUTSIDE OR INTO A HUB DRAIN TO THE SEWER.
18. SMOKE DETECTORS SHALL BE INSTALLED IN ALL SYSTEMS GREATER THAN 2000 CFM IN THE RETURN AIR DUCT AND SHALL BE HARD WIRED TO THE FAN STARTER FOR SHUTDOWN ON ACTIVATION OF SENSOR. THE ALARM FOR ACTIVATION SHALL BE VISUAL AND AUDIBLE PER NFPA 90A AND 72E. IF A CENTRAL ALARM SYSTEM IS INSTALLED IN THE BUILDING THIS SHALL ALSO BE CONNECTED TO EACH UNIT.
19. PROVIDE ACCESS TO DEVICES ABOVE HARD CEILINGS. ALL AIR HANDLING EQUIPMENT LOCATED ABOVE CEILINGS SHALL HAVE A PLATFORM FOR MOUNTING FURNISHED ON THE STRUCTURAL DRAWING WHICH SUPPORT THE UNITS ACCORDING TO SEISMIC RATING FOR THE LOCATION. LIGHTING IS TO BE PROVIDED BY ELECTRICAL FOR MAINTENANCE.
20. ALL EQUIPMENT AND DUCTWORK VISIBLE THROUGH SLOTS, GRILLES AND/OR DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
21. WALL MOUNTED TEMPERATURE SENSORS AND/OR THERMOSTATS TO BE MOUNTED PER DRAWINGS OR OWNER INSTRUCTIONS. THERMOSTATS TO BE 7 DAY PROGRAMMABLE WITH ABILITY TO CONTROL FAN OPERATION SEPARATE FROM TEMPERATURE SETPOINT FOR SEVEN DAYS WITH LOCKING COVERS. MOUNT AT 60" AFF OR AT OWNER OR ARCHITECT DIRECTION.
22. AIR AND WATER BALANCING REPORT PER IMC IS TO BE PROVIDED TO CODE OFFICIALS AT FINAL INSPECTION.
23. SUPPORTS FOR DUCTWORK TO COMPLY WITH IMC AND IBC CODES.
24. MINIMUM OUTSIDE AIR REQUIREMENTS WERE CALCULATED USING INTERNATIONAL MECHANICAL CODE 2021. ANY CHANGES TO THE SPECIFIED OUTSIDE AIR REQUIREMENTS MUST BE APPROVED BY DESIGN ENGINEER.
25. INSULATION SHALL BE 2" MINIMUM THICKNESS UNLESS OTHERWISE NOTED ON DRAWINGS. INSULATION SHALL BE INSTALLED WITH 2" OVERLAP AND STAPLED EVERY 6" WITH OUTWARD CLINCHING STAPLES. SEAMS AND JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE MATCHING INSULATION OR GLASS FABRIC AND MASTIC. FOR RECTANGULAR DUCT SECTIONS 24" OR WIDER, DUCT WRAP INSULATION SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS AT 12" ON CENTER TO PREVENT SAGGING INSULATION. OUTSIDE DUCT SHALL HAVE WEATHERPROOF WRAP. DUCT LOCATED IN CONDITIONED AREAS SHALL NOT HAVE INSULATION. OUTSIDE BUILDING INSULATE; INSULATE SUPPLY AND RETURN DUCT WITH 2" FIBERGLASS SEMI-RIGID BOARD INSULATION UNFACED; FLAME SPREAD RATING – 25; SMOKE DEVELOPED RATING – 50; DENSITY – 3 PCF; –20° F TO 450° F RATING; R VALUE – 8.7; OWENS-CORNING TYPE 703 OR EQUAL. FINISH EXTERIOR WITH WATERPROOF ALUMINUM JACKET.
26. INSULATE ALL CONDENSATE DRAINS WITH 1" THICK ARMAFLEX. CONDENSATE DRAINS THAT RUN DIRECTLY VERTICAL DO NOT NEED INSULATION.
27. UNLESS OTHERWISE NOTED, MECHANICAL CONTRACTOR REQUIRED TO SUPPLY STARTERS AND DISCONNECTS FOR EQUIPMENT SHOWN ON ALL MECHANICAL SCHEDULES. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL AND WIRE CONNECTIONS.
28. UNLESS OTHERWISE NOTED, MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WIRING FOR THERMOSTATS AND ANY OTHER CONTROLS REQUIRED BY THE HVAC SYSTEM.
29. TEST AND BALANCE ALL SYSTEMS BY A CERTIFIED CONTRACTOR.
30. HVAC DRAWINGS ARE THE SOURCE FOR ALL LOUVERS. IF STRUCTURAL AND OR ARCHITECTURAL DRAWINGS SHOW SIZES DIFFERENT FROM THE HVAC DRAWINGS, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO MAKE CHANGES NEEDED TO ACCOMMODATE THE EQUIPMENT. THIS IS TO BE COORDINATED WITH THE STRUCTURAL AND ARCHITECTURAL ENGINEERS THROUGH A RFI.
31. CONTRACTOR SHALL SUBMIT (3) SETS OF SHOP DRAWINGS AND EQUIPMENT CUTS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK.
32. UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL SUPPLY THE ENGINEER WITH (1) COMPLETE SET OF AS-BUILT DOCUMENTS AND (3) COMPLETE COPIES OF OPERATIONS AND MAINTENANCE MANUALS. AS-BUILT DRAWINGS SHALL BE OBTAINED AT CONTRACTOR'S EXPENSE.
33. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL OTHERWISE BE SECURED TO PREVENT UNAUTHORIZED ACCESS. THIS DOES NOT APPLY IN CONTROLLED AREA (I.E. ROOFS WITH LOCKED HATCHES OR DOORS)

HVAC PROTECTION NOTES
THE MOST SIGNIFICANT POTENTIAL IAQ SOURCES FROM CONSTRUCTION ARE DUST, MOISTURE, AND VOCs. THE APPROACH FOR PREVENTING DUST RELATED PROBLEMS IS TO IDENTIFY ALL SOURCES OF DUST AND PROTECT THE HVAC SYSTEMS. DURING CONSTRUCTION, THE RETURN AIR SYSTEM OPENINGS SHOULD HAVE TEMPORARY FILTERS THAT RECEIVE FREQUENT PERIODIC MAINTENANCE IF THE HVAC SYSTEM IS BEING UTILIZED. WHEN ACTIVITIES THAT PRODUCE HIGH DUST, SUCH AS DRYWALL SANDING, CONCRETE CUTTING, MASONRY WORK, WOOD SAWING AND INSULATION OR POLLUTION LEVELS OCCUR, THE RETURN AIR SYSTEM OPENINGS SHOULD BE SEALED OFF COMPLETELY FOR THE DURATION OF THE TASK. THIS ACTIVITY IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
IF THE HVAC SYSTEM IS NOT USED DURING CONSTRUCTION, THE SUPPLY AND RETURN AIR SYSTEM OPENINGS SHOULD BE SEALED OFF TO PREVENT THE ACCUMULATION OF DUST AND DEBRIS IN THE DUCT SYSTEM. THE DIFFUSERS SHOULD ALSO BE SEALED IN PLASTIC. THIS ACTIVITY IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
THE MECHANICAL ROOMS SHOULD NOT BE USED TO STORE CONSTRUCTION OR WASTE MATERIALS. ROOMS SHOULD BE KEPT CLEAN AND NEAT AT ALL TIMES. THIS ACTIVITY IS THE RESPONSIBILITY OF ALL SUBCONTRACTORS .
FILTRATION IS CRITICAL DURING CONSTRUCTION AND DURING STARTUP OF THE HVAC SYSTEM. FILTER MEDIA NEEDS TO MEET THE ASHRAE REQUIREMENT FOR MERV LEVEL 8. WHERE POSSIBLE, UTILIZE 80% DUST SPOT EFFICIENCY FILTRATION.
UPON PERIODIC INSPECTION DURING CONSTRUCTION, IF THE DUCTS BECOME CONTAMINATED DUE TO INADEQUATE PROTECTION, THE DUCTS WILL BE CLEANED.
TO DOCUMENT THAT THE ABOVE GUIDELINES ARE FOLLOWED DURING THE CONSTRUCTION PHASE OF THE PROJECT, PICTURES WILL BE TAKEN DAILY BY THE MECHANICAL CONTRACTOR AND GIVEN TO THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR WILL ALSO INSPECT PERIODICALLY AND TAKE PICTURES THROUGH OUT THE DURATION OF THE PROJECT
HVAC EXISTING EQUIPMENT NOTES
ALL EXISTING DUCTWORK AND GRILLES IN SCOPE TO BE CLEANED PRIOR TO THE FINALIZATION OF THE JOB.

LEGEND	
A.F.F.	ABOVE FINISHED FLOOR
—	MANUAL VOLUME DAMPER
①	THERMOSTAT
A	DIFFUSER SYMBOL
100	AIR FLOW CFM
—	FLEX DUCT
▼	FIRE DAMPER
⊠	SUPPLY DUCT UP
⊠	SUPPLY DUCT DOWN
⊠	RETURN DUCT UP
⊠	RETURN DUCT DOWN
—	NEW DUCTWORK
⊠	NEW CEILING SUPPLY DIFFUSER
⊠	NEW CEILING RETURN GRILLE
— G —	NATURAL GAS PIPING
— CD —	CONDENSATE PIPING



REVISIONS
1 RESTROOM FOUNTAIN 11/19/24

PROJECT DATA
3,810 SQ. FT.
PROJECT NUMBER
24124
ISSUE DATE
10-14-24

EDGEFIELD COUNTY FINANCE & HR OFFICE

M1.0

MECH. LEGEND, NOTES, & DETAILS



HEAT PUMP PACKAGED HVAC UNIT SCHEDULE																							
EQUIPMENT NUMBER	AREA SERVED	NOMINAL CAPACITY (TONS)	MANUF.	MODEL #	REFRIG. TYPE	SUPPLY (CFM)	OUTSIDE AIR (CFM)	ESP H2O	GROSS CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	HEATING CAPACITY				UNIT ELECTRICAL DATA					UNIT WEIGHT (LBS)	EER/SEER RATING	ACCESSORIES REQUIRED	
											HIGH TEMP RATING (MBH)	LOW TEMP RATING (MBH)	ELECTRIC HEATER (KW)	HEATING STAGES	COMPRESSOR			MINIMUM CIRCUIT AMPACITY	MAX. CIRCUIT AMPACITY				VOLTAGE V/PH/HZ
															NO.	TYPE	STAGES						
RTU-2	NEW OFFICES	3.0	TRANE	WSC036H3R	R-410A	1200	190	0.8	39.5	29.3	36.0	20.6	9.0	2	1	SCROLL	1	57.0	60	208/3/60	612	12.1/14.3	1-9
* THE BRAND OF EQUIPMENT SHOWN ON SCHEDULE IS ONLY A TYPICAL. ALTERNATES ARE ACCEPTABLE BY APPROVAL OF OWNER OR PROJECT MANAGER.																							
* CONTRACTOR MUST VERIFY UNIT CONFIGURATION TO FIT THE LAYOUT DESIGN.																							
<u>ACCESSORIES:</u>																							
1. REFRIGERANT PIPING AND SPECIALTIES SHAL BE SIZED BY MANUFACTURER.																							
2. MC TO PROVIDE FILTERS IN ACCORDANCE WITH CODE.																							
3. UNIT TO BE SELECTED WITH 0.5" FILTER PRESSUER DROP THAT IS NOT PART OF THE ESP SCHEDULED.																							
4. PACKAGE UNIT SHALL INCLUDE FACTORY SUPPLIED POWERED CONVENIENCE OUTLET. EC TO SUPPLY TWO CIRCUITS TO EACH RTU. ONE CIRCUIT TO SERVE RTU & ONE AT 115 VOLTS TO SERVE POWERED CONVENIENCE OUTLET.																							
5. PROVIDE PROGRAMMABLE T-STAT WITH WINTER AND SUMMER SETPOINTS AND HEAT/COOL/AUTO SWITH WITH ABILITY TO CONTROL FAN OPERATION SEPARATE FROM TEMPERATURE SETPOINT FOR SEVEN DAYS WITH LOCKING COVERS																							
6. MC TO PROVIDE FACTORY APPROVED ROOF CURBS. GC TO INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.																							
7. 0-100% MODULATING ECONOMIZER WITH POWERED EXHAUST FAN.																							
8. UNIT SHALL INCLUDE FACTORY SUPPLIED NON-FUSED DISCONNECT.																							
9. CONDENSER COIL GRILLES																							
10. DUCT MOUNTED SMOKE DETECTOR WITH REMOTE ALARM.																							

SEAL



EXHAUST FAN SCHEDULE									
EQUIPMENT TAG	MANUFACTURER	MODEL	AIRFLOW	E.S.P. (IN. WC)	FAN RPM	DRIVE	WATTS OR HP	ELECTRICAL (V/PH/HZ)	ACCESSORIES
EF-1	GREENHECK	SP-A90	75	0.25	885	DIRECT	14 W	115/1/60	1-4
EF-2	GREENHECK	SP-A90	75	0.25	885	DIRECT	14 W	115/1/60	1-4
* THE BRAND OF EQUIPMENT SHOWN ON SCHEDULE IS BASIS OF DESIGN. EQUAL PRODUCTS BY GREENHECK, TWIN CITY, CARNES, PENN-BARRY.									
ACCESSORIES:									
1. BACKDRAFT DAMPER									
2. SPEED CONTROLLER									
3. FACTORY DISCONNECT									
4. OPERATED BY LIGHTSWITCH									
5. SET TO RUN CONTINUOUSLY									

AIR DISTRIBUTION SCHEDULE								
MARK	TYPE	OUTLET	SIZE	MAX CFM	NC	MANUF.	MODEL NUMBER	NOTES
A	SUPPLY	12"x12"	52	—	PRICE	4"ø/12"x12"/ASPD/B12		1—4
B	SUPPLY	24"x24"	118	—	PRICE	6"ø/24"x24"/ASPD/B12		1—4
C	SUPPLY	24"x24"	244	—	PRICE	8"ø/24"x24"/ASPD/B12		1—4
D	SUPPLY	8"x6"	180	17	PRICE	8"x6"/510/SM/SR/B12		2,3,6
RA	RETURN	24"x24"	2527	21	PRICE	24"x24"/80/TB/B12		1—4
NOTES:								
1. WITH ROUND NECK OPTION, CONNECTION SIZE IS TO BE SAME AS ATTACHED DUCTWORK UNLESS NOTED OTHERWISE.								
2. FURNISH IN MANUFACTURER'S STANDARD WHITE FINISH.								
3. KRUEGER, TUTTLE & BAILEY, OR TITUS EQUIVALENT MODELS ARE ALSO ACCEPTABLE.								
4. T-BAR, LAY-IN CEILING								
5. EXPOSED DUCT								
6. SURFACE MOUNT								

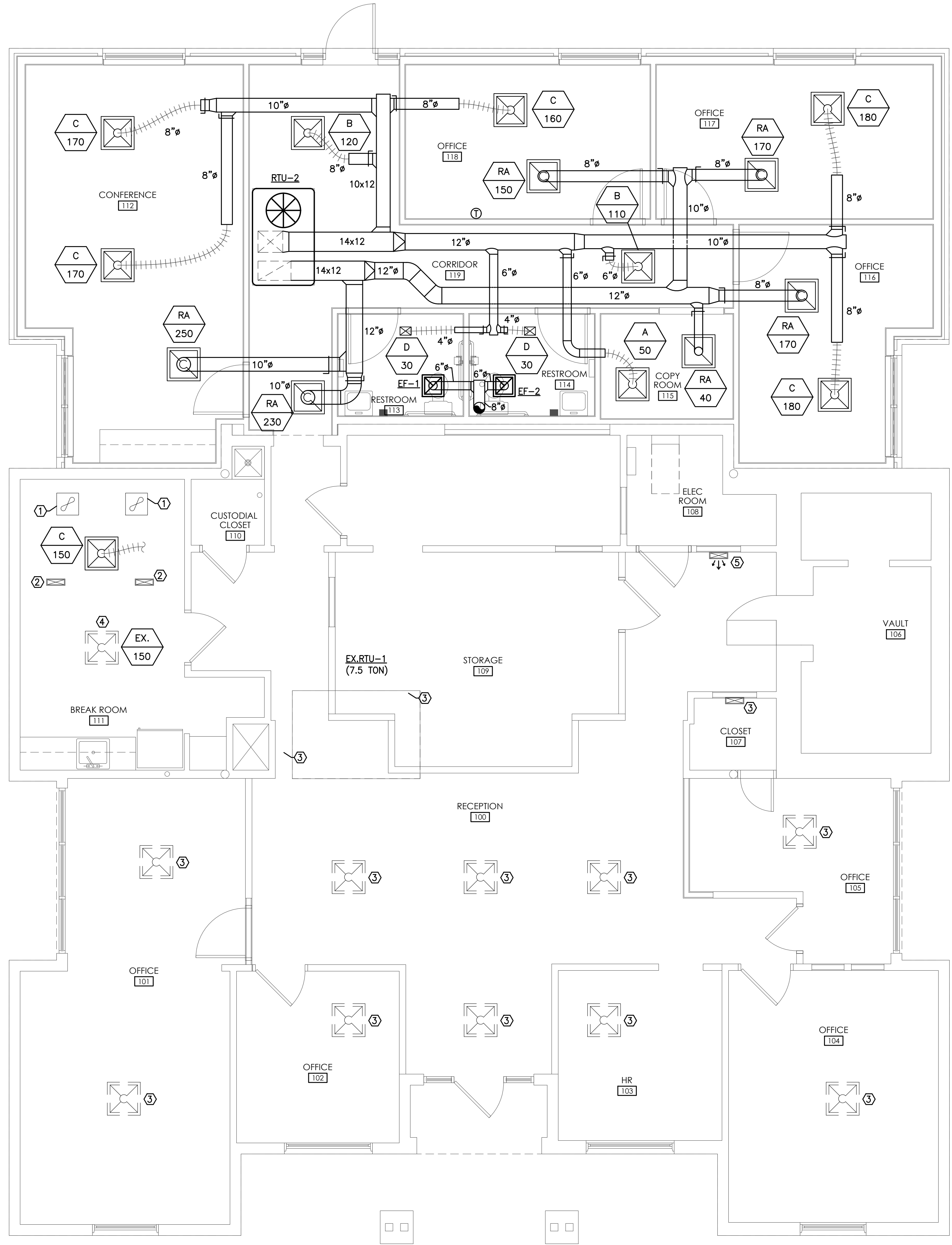
AIR BALANCE SCHEDULE			
MARK	OA (CFM)	EXHAUST (CFM)	TOTAL (CFM)
EX.RTU-1	200	-	200
RTU-2	190	-	+190
EF-1	-	75	-75
EF-2	-	75	-75
TOTAL	390	-150	240

OA SCHEDULE						
FUNCTION OF SPACE	TOTAL FLOOR AREA (SQFT)	PEOPLE	PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	AREA OUTDOOR AIR RATE (CFM/SQFT)	OUTSIDE AIR REQUIRED (CFM)	OUTSIDE AIR SUPPLIED (CFM)
CORRIDOR	301	-	-	0.06	20	20
OFFICE	498	3	5	0.06	70	70
MEETING ROOM	294	10	5	0.06	70	100
TOTAL	1093	13			160	190

REVISIONS		
1	RESTROOM/FOUNTAIN	11/19/24

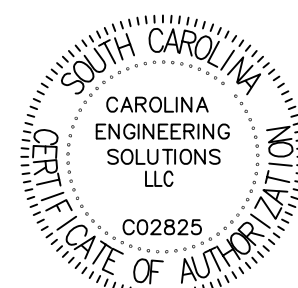
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- ① DEMO EXISTING FAN. REMOVE ABANDONED DUCTWORK AND CAP. PREP EXISTING PENETRATIONS TO MATCH NEW SURFACE/FINISH.
- ② DEMO EXISTING GRILLES AND REPLACE WITH NEW DESIGN SHOWN. EXTEND AND CONNECT DUCTWORK AS NEEDED. CAP UNUSED DUCTWORK.
- ③ EXISTING BUILDING IS NOT IN SCOPE UNLESS OTHERWISE NOTED. NO WORK REQUIRED IN THESE AREAS INCLUDING THE EXISTING RTU.
- ④ BALANCE EXISTING SUPPLY GRILLE TO NEW CFM SHOWN ON TAG.
- ⑤ ADJUST EXISTING SUPPLY GRILLE TO FACE AWAY FROM ELECTRICAL CLOSET AND INTO SHARED CORRIDOR AS SHOWN.

① MECHANICAL HVAC PLAN
1/4" = 1'-0"



ELECTRICAL SYMBOLS LEGEND

- ⊕ 20A, 125V, 2P, 3W, NEMA 5-20R, TAMPER-RESISTANT, DUPLEX RECEPTACLE MTD. 20" ABOVE FLOOR UNLESS NOTED OTHERWISE. SEE ABBREVIATIONS BELOW FOR DESIGNATIONS:
D – DEDICATED CIRCUIT.
ED – EXISTING TO BE DEMOLISHED.
G – GROUND FAULT INTERRUPTER.
R – ROOF MOUNTED, FIELD LOCATE.
T – RECEPTACLE FOR TELEVISION, COORDINATE WITH ARCHITECT FOR HEIGHT.
WP – WEATHER PROOF ENCLOSURE, IN-USE TYPE.
- ⊕ SAME AS ⊕ ABOVE EXCEPT BOTTOM OF OUTLET MOUNTED 4" ABOVE COUNTER HEIGHT, COORDINATE WITH CABINETRY DETAILS.
- ⊕ SAME AS ⊕ ABOVE EXCEPT QUADRAPLEX TYPE.
- ▼ TELE/DATA OUTLET 18" AFF UNO. DUAL GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING WITH 1" CONDUIT, PULL STRING AND CONDUIT END BUSHINGS. STUB CONDUIT UP 6" ABOVE FINISHED CEILING. JACKS, CABLE AND BOX COVER BY OWNER. 'ED' – INDICATES EXISTING TO BE DEMOLISHED. 'T' – RECEPTACLE FOR TELEVISION.
- Ⓜ DUAL COMPARTMENT FLUSH FLOOR BOX W/(1) DUPLEX RECEPTACLE AND (1) TELE/DATA OUTLET PROVIDE W/HINGED COVERPLATES. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FLOOR TYPE AND EXACT LOCATION.
- 4' STRIP LIGHT FIXTURE PER FIXTURE SCHEDULE.
- ▭ 2'x4' RECESSED LIGHT FIXTURE PER FIXTURE SCHEDULE.
- ▭/ SAME AS ABOVE EXCEPT WITH SWITCHED INTEGRAL 90 MINUTE BATTERY BACK-UP.
- ▭/ 2'x2' RECESSED LIGHT FIXTURE PER FIXTURE SCHEDULE.
- RECESSED DOWNLIGHT FIXTURE, PER FIXTURE SCHEDULE.
- Ⓜ 2' LIGHT FIXTURE WITH INTEGRAL DUPLEX RECEPTACLE PER FIXTURE SCHEDULE.
- + EXTERIOR WALL SCONCE PER FIXTURE SCHEDULE.
- Ⓜ POLE MOUNTED AREA LIGHT PER FIXTURE SCHEDULE.
- Ⓜ WALL MOUNTED TWIN HEAD EMERGENCY FIXTURE. PROVIDE CONTINUOUS HOT LEAD TO FIXTURE FOR BATTERY.
- Ⓜ COMBINATION EXIT/EMERGENCY FIXTURE. PROVIDE CONTINUOUS HOT LEAD TO FIXTURE FOR BATTERY. SHADING INDICATED NUMBER OF FACES.
- Ⓜ WALL MTD EXTERIOR EGRESS EMERGENCY LIGHT.
- S SINGLE POLE LIGHTING SWITCH, 48" AFF, 120/277 VOLT, 20 AMP, SPEC GRADE, "T" RATED. 'ED' – INDICATES EXISTING TO BE DEMOLISHED. 'ER' – INDICATES EXISTING TO BE RELOCATED. 'EN' – INDICATES EXISTING INSTALLED IN NEW LOCATION, TAP AND EXTEND ALL CONDUIT AND WIRING TO NEW LOCATION AS REQUIRED.
- S3 SAME AS "S" ABOVE EXCEPT "3" IN SUBSCRIPT DENOTES 3-WAY SWITCH.
- SD LED SLIDE TYPE DIMMER SWITCH. TYPE AND SIZE AS REQUIRED.
- A-7 HOMERUN TO ELECTRICAL PANEL. HOMERUN NOTE (A-7) INDICATES PANEL DESIGNATION AND RELATIVE CIRCUIT NUMBER. UNLESS NOTED OTHERWISE, CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT. HATCH MARKS INDICATE THE QUANTITY OF CONDUCTORS REQUIRED. SHORT HATCH MARKS REPRESENT HOT CONDUCTORS OR SWITCHED LEGS. LONG HATCH MARKS REPRESENT THE NEUTRAL CONDUCTOR. ALL BRANCH CIRCUITS SHALL CONTAIN A #12 INSULATED GREEN GROUND CONDUCTOR. PROVIDE ALL WIRING REQUIRED TO ACCOMPLISH CIRCUITRY AS INDICATED. NO HATCH MARKS INDICATE 2#12, #12G-3/4".
- BRANCH CIRCUIT WIRING CONCEALED IN WALL OR CEILING SPACE.
- BRANCH CIRCUIT WIRING CONCEALED UNDERGROUND OR IN CABINETRY.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- ELECTRICAL PANEL, 120/208V, MOUNTING AS INDICATED. COORDINATE EXACT LOCATION IN FIELD.
- 30/2/F SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, 2 INDICATES NUMBER OF POLES, "F" INDICATES FUSED, "NF" INDICATES NON-FUSED. ENCLOSURE TO BE NEMA 1 UNLESS NOTED OTHERWISE (3R, 4X, ETC.) FUSE PER MANUFACTURERS RECOMMENDATIONS.
- DS LOCAL 120V TOGGLE TYPE EQUIP. DISCONNECT. RATED 20A, UNLESS NOTED OTHERWISE.
- Ⓜ PHOTO CONTROL IS TO BE TORK 2101, 120V, 2000W, SPST OR APPROVED EQUAL. MOUNT ON HIGHEST PRACTICAL POINT FACING NORTH.

ELECTRICAL SPECIFICATIONS

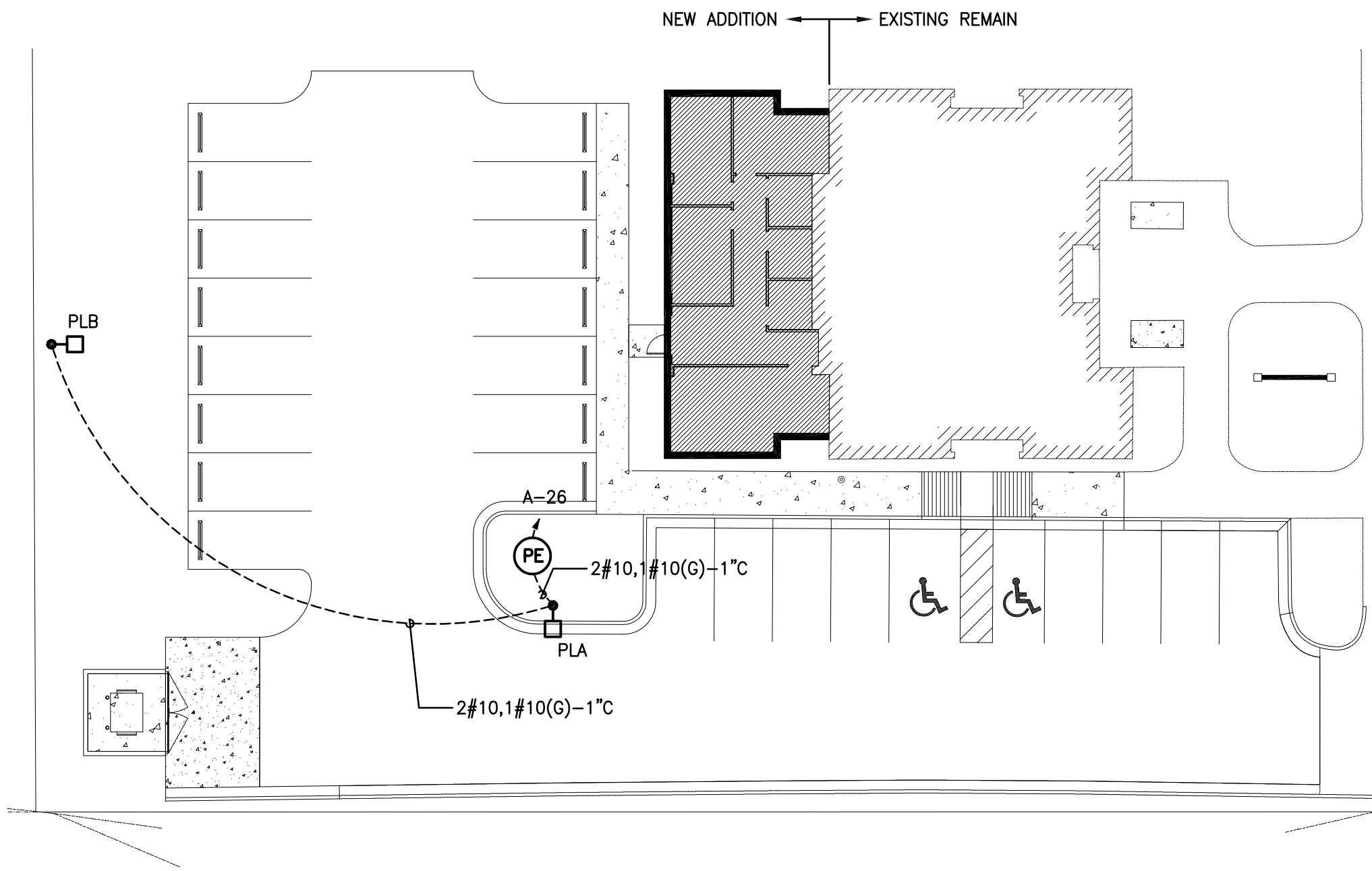
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL AND MECHANICAL CONSTRUCTION. ANY CORRECTIONS WILL BE MADE BY THE ELECTRICAL CONTRACTOR AT NO COST TO THE OWNER.
- ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE IBC AND THE NATIONAL ELECTRICAL CODE, LATEST EDITIONS, AND ALL APPLICABLE STATE AND LOCAL CODES. ALL WORK SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER.
- ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE U/L LABEL.
- CONTRACTOR SHALL CONFIRM BRANCH CIRCUIT SIZING, LOCATIONS AND CONNECTION REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. ANY ADJUSTMENTS REQUIRED SHALL BE MADE BY THE ELECTRICAL CONTRACTOR. SUBSTANTIAL CHANGES TO THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- ALL TERMINALS SHALL BE RATED FOR 75 DEGREES CELSIUS COPPER WIRE.
- RECEPTACLES SHALL BE OF THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO THE RACEWAY AND GROUNDING SYSTEMS. COVERPLATES AND COLOR FOR ALL WIRING DEVICES TO BE DETERMINED BY ARCHITECT.
- LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE IN ALL RESPECTS PER FIXTURE SCHEDULE. VERIFY CEILING FINISHES AND SUSPENSION SYSTEMS FOR SELECTION OF PROPER TRIM AND SUPPORT ARRANGEMENTS. INSTALL ALL LIGHT FIXTURES WITH LAMPS AS REQUIRED.
- RECESSED FIXTURES MOUNTED IN GRID CEILING SHALL BE SECURELY FASTENED TO THE GRID BY A MECHANICAL MEANS THAT COMPLIES WITH REQUIREMENTS FOR SEISMIC EVENTS PER ASCE 7-16. THE GRID SHALL BE ABLE TO SUPPORT THE WEIGHT OF THE FIXTURE, AND SHALL BE SECURED TO TRUE STRUCTURE AS REQUIRED. ALL SURFACE MOUNTED, EMERGENCY, AND EXIT FIXTURES SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE BY A MECHANICAL MEANS THAT COMPLIES WITH THE SAME STIPULATIONS AS ABOVE.
- ALL WIRING SHALL BE CONCEALED WHERE POSSIBLE AND INSTALLED IN SUITABLE RACEWAYS. EMT SHALL BE USED (3/4" MIN) FOR LIGHTING AND POWER BRANCH CIRCUITRY. EMT SHALL BE USED FOR EQUIPMENT FEEDERS. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. MC CABLE SHALL BE ALLOWED PER THE NEC FOR FIXTURE WHIPS AND CONCEALED VERTICAL RUNS DOWN WALL ONLY.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE SEALED USING APPROVED MATERIALS AND METHODS TO MAINTAIN THE ORIGINAL FIRE-RESISTANCE RATINGS.
- RECEPTACLES INSTALLED BACK TO BACK IN FIRE RATED WALLS SHALL BE A MINIMUM OF 24" APART AND SHALL NOT OCCUPY THE SAME STUD CAVITY.
- DISCONNECT SWITCHES SHALL BE FURNISHED AS SHOWN ON THE DRAWINGS WITH VOLTAGE RATING, AMPERAGE RATING AND NUMBER OF POLES AS INDICATED. PROVIDE NEMA 3R TYPE WHERE EXPOSED TO WEATHER. PROVIDE HEAVY DUTY TYPE SWITCHES.
- FUSES FOR FUSIBLE SWITCHES SHALL BE OF THE DUAL ELEMENT, REJECTION TYPE.
- DISCONNECT SWITCHES SHALL HAVE EXTERNAL SWITCH HANDLE, SWITCH AND DOOR SHALL BE INTERLOCKED SUCH THAT THE DOOR CAN NOT BE OPENED UNLESS THE SWITCH IS IN THE OPENED POSITION.
- ALL WIRE SHALL BE SINGLE CONDUCTOR STRANDED, COPPER SIZED AS INDICATED ON THE DRAWINGS. MINIMUM SIZE SHALL BE #12 AWG.
- SOLID WIRE MAY BE USED FOR #12 AND #10 AWG WIRE USED ON LIGHTING FIXTURES, RECEPTACLES AND SWITCHES ONLY.
- INSULATION OF WIRE SHALL BE 75 DEGREES CELSIUS (THHN, THWN), 600 VOLT.
- UNLESS INDICATED ON THE DRAWINGS, ALL WIRING SHALL BE #12 AWG. CONTRACTOR SHALL CONFIRM AND ROUTE THE PROPER QUANTITY OF WIRES AND SIZE OF CONDUIT TO FIT THE APPLICATION AND THE CIRCUITRY INDICATED.
- CONTRACTOR SHALL PROVIDE A PROPERLY SIZED, GREEN COLORED INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS. THIS CONDUCTOR IS NOT INDICATED IN THE HASH MARKS ON THE CONDUIT RUNS ON THE PLANS.
- PROVIDE A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NEC ARTICLE 250 AND THESE SPECIFICATIONS. GROUNDING SYSTEM SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT.
- PANELBOARDS SHALL BE PROVIDED WITH DISTRIBUTIVE PHASING AND RATINGS AND BREAKER REQUIREMENTS AS PER SCHEDULES. LABEL ALL PANELS AND PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES.
- CONTRACTOR WILL BE RESPONSIBLE FOR ENGAGING A TESTING AGENCY TO VERIFY IF AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IS REQUIRED FOR THE BUILDING. IF REQUIRED, THE CONTRACTOR SHALL FURNISH AND INSTALL THE SYSTEM PER INTERNATIONAL FIRE CODE (IFC) SECTION 510.
- ELECTRICAL SERVICE EQUIPMENT SHALL HAVE A PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT, PER NEC 110.24. FURNISH AND INSTALL ARC-FLASH WARNING LABELS THAT COMPLY WITH NEC 110.16 ON ALL ELECTRICAL EQUIPMENT. ALL ELECTRICAL PANELS SHALL BE MARKED WHERE THE ARE SUPPLIED FROM PER NEC 408.4(B).
- THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, WIRE, AND FIXTURES NOT RE-USED IN THE RENOVATION OR INTERFERING WITH NEW CONSTRUCTION. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO EXAM THE EXISTING FACILITY TO BETTER UNDERSTAND THE EXTENT OF THE DEMOLITION AND EXISTING CONDITIONS.

GENERAL LIGHTING NOTES:

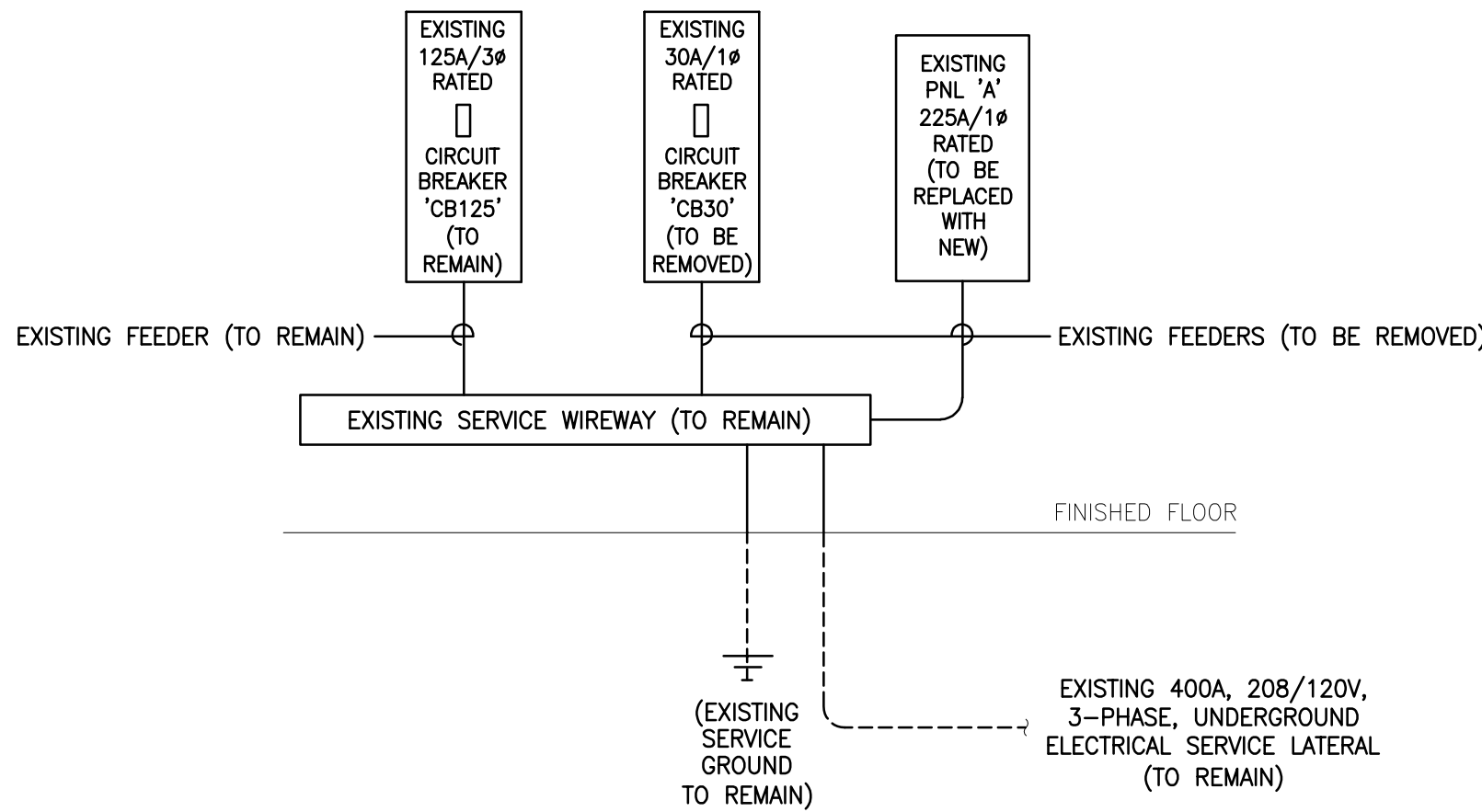
- MANUFACTURERS & NUMBERS SHALL BE USED. ANY ALTERNATIVES SHOULD BE APPROVED BY THE OWNER OR ARCHITECT.
- ALL FIXTURES TO BE U.L. LISTED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE INSTALLING FIXTURE.
- CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED FOR A COMPLETE SYSTEM.
- CONTRACTOR TO COORDINATE AND DETERMINE EXACT MOUNTING HEIGHTS OF ALL INTERIOR AND EXTERIOR WALL MOUNTED LIGHT FIXTURES IN FIELD PRIOR TO ROUGH-IN. FIXTURES TO BE UNIFORM AND CONSISTENT IN ALL APPLICATIONS.

LIGHTING FIXTURE SCHEDULE

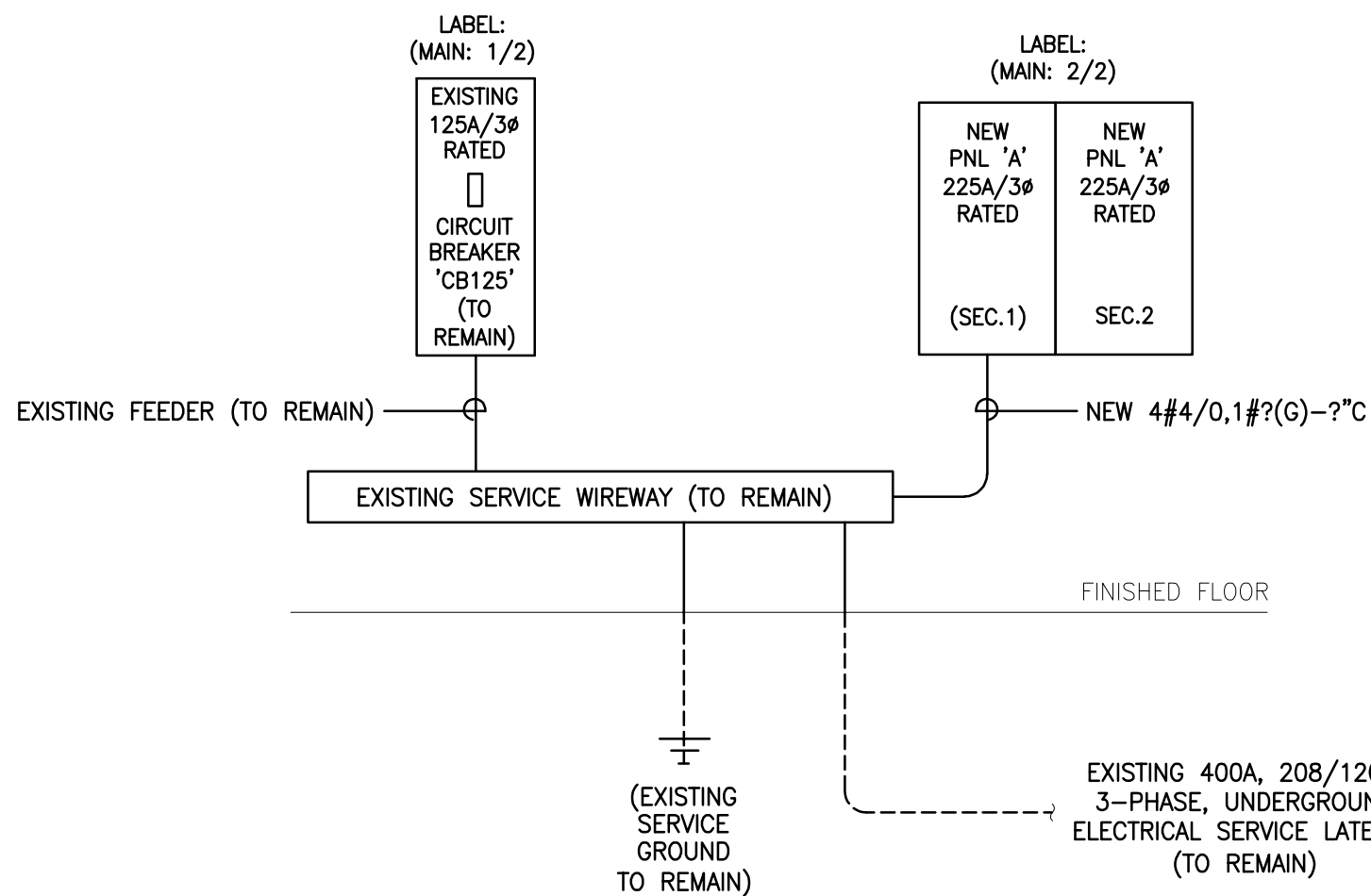
FIXTURE TYPE	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	LAMPS	FIXTURE WATTAGE	VOLTAGE
ED	EXISTING TO BE DEMOLISHED.	N/A	N/A	N/A	N/A
EL	EXTERIOR WEATHERPROOF EMERGENCY LIGHT REMOTE DUAL HEAD, LED, BLACK FINISH, INSTALL ABOVE DOOR.	ISOLITE: MVH-BK-2-LW	LED BY MANUFACTURER	5	12
EM	WALL MOUNTED SPECIFICATION GRADE TWIN-HEAD EMERGENCY LIGHT WITH 90 MIN. BATTERY BACKUP, WHITE HOUSING.	ISOLITE: RL2LED-2-WH-MBC	LED BY MANUFACTURER	5	120
EXA	COMBINATION EMERGENCY LIGHT/EXIT SIGN WITH RED LED ON ON WHITE HOUSING, 90 MIN. BATTERY BACKUP, DIFFUSER LENS SPEC. GRADE, REMOTE HEAD CAPABLE.	ISOLITE: RLC-LED-R-U-WH-MTEB	LED BY MANUFACTURER	5	120
PLA	POLE MOUNTED AREA LIGHT, 27,000 LUMEN LED, BLACK HOUSING, UL WET LOCATION.	LSI: VALS-27L-2-UNV-40K8-BLK-SA	LED	178	UNV
PLB	POLE MOUNTED AREA LIGHT, 27,000 LUMEN LED, BLACK HOUSING, UL WET LOCATION.	LSI: VALS-27L-4W-UNV-40K8-BLK-SA	LED	178	UNV
RA	6" RECESSED LED DOWNLIGHT, CLEAR SELF FLANGED WHITE TRIM, SPECULAR REFLECTOR, 2000 LUMENS, 35K TEMP.	PRESCOLITE: LBRST-6RD-M-LS-ML-CS9-WH-34	LED	18	UNV
TA	2'x4' RECESSED FLAT PANEL, 5500 LUMEN LED, DIMMABLE, WHITE HOUSING, 35K TEMP.	COLUMBIA: CBT-24-A-LSCS-EDD	LED	48	UNV
TAE	SAME AS 'TA' ABOVE EXCEPT WITH SWITCHED INTEGRAL 90MIN BATTERY BACK-UP.	COLUMBIA: CBT-24-A-LSCS-EDD-ELL14	LED	48	UNV
WA	EXTERIOR WALL SCONCE, LED, UL WET LOCATION, BLACK FINISH.	PEMCO: PMOXV-WA-50W-4K-U-5-WM-BK	LED	50	UNV



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



1 POWER RISER DIAGRAM (EXISTING)
SCALE: N.T.S.



2 POWER RISER DIAGRAM (REVISED)
SCALE: N.T.S.

PANELBOARD: "A" (EXISTING)				VOLTAGE: 120/240V, 1Ø, 3W			
MOUNTING: SURFACE				MAINS: MCB		MIN. AIC RATING: EXISTING	
MANUFACTURER: FPE				TRIP: 225A		FRAME: 225A	
DESCRIPTION	CKT.	TRIP	TRIP	CKT.	DESCRIPTION		
LOBBY LIGHTS	1	20	20	2	BURGLAR ALARM		
LOBBY LIGHTS	3	20	20	4	LIGHTS - TELLER AREA		
LOBBY LIGHTS	5	20	20	6	LIGHTS - TELLER AREA		
LIGHTS - VAULT & DRIVE	7	20	20	8	LIGHTS - WORK ROOM		
LIGHTS - OFFICE	9	20	20	10	LIGHTS - OFFICE		
LIGHTS - DRIVE TELLER	11	20	20	12	LIGHTS - OUTSIDE SEC		
RECEPTS - OFFICE	13	20	20	14	RECEPTS - TELLER		
RECEPTS - TELLER	15	20	20	16	RECEPTS - WORK ROOM		
RECEPTS - OFFICE	17	20	20	18	RECEPTS - DRIVE TELLER		
RECEPTS - TELLER	19	20	20	20	RECEPTS - DRIVE TELLER		
RECEPTS - DRIVE TELLER	21	20	20	22	WATER HEATER		
RECEPTS - TELLER CTER	23	20	20	24	WATER COOLER		
RECEPTS - TELLER CTER	25	20	20	26	LIGHTS - PARKING LOT		
BANK SIGN (AS&I TT)	27	20	20	28	LIGHTS - PARKING LOT		
BANK SIGN (AS&I TT)	29	20	20	30	IGHTS - PARKING LOT		
BANK SIGN (AS&I TT)	31	20	20	32	BURGER ALARM		
TELLER WINDOW	33	20	20	34	TELLER WINDOW		
TELLER WINDOW	35	20	20	36	NEW CONTROLLER		
TELLER WINDOW	37	20	20	38	AIR COND. CONTROLS		
LOAD	39	20	20	40	KITCHEN UNIT		
LOAD	41	20	20	42	LOAD		

△ EXISTING CIRCUIT TO BE TRANSFERRED TO NEW PANEL 'A'. TAP AND EXTEND ALL EXISTING CONDUIT AND WIRING FROM EXISTING PANEL TO NEW PANEL AS REQUIRED, FIELD COORDINATE.

PANELBOARD: "A" (NEW), S.E. RATED				VOLTAGE: 120/208V, 3Ø, 4W						
MOUNTING: SURFACE, NEMA 1				MAINS: MCB		MIN. AIC RATING: MATCH EXISTING BEING REPLACED				
MANUFACTURER: SQUARE 'D' (OR EQUAL)				TRIP: 225A		FRAME: 225A				
LOAD	DESCRIPTION	CKT.	TRIP	CKT.	DESCRIPTION	LOAD	L1	L2	L3	
800	LOBBY LIGHTS	1	20	20	2	BURGLAR ALARM	500	1300		
800	LOBBY LIGHTS	3	20	20	4	LIGHTS – TELLER AREA	100		900	
800	LOBBY LIGHTS	5	20	20	6	LIGHTS – TELLER AREA	100		900	
300	LIGHTS – VAULT & DRIVE	7	20	20	8	LIGHTS – WORK ROOM	800	1100		
400	LIGHTS – OFFICE	9	20	20	10	LIGHTS – OFFICE	800		1200	
100	LIGHTS – DRIVE TELLER	11	20	20	12	LIGHTS – OUTSIDE SEC	500		600	
720	RECEPTS – OFFICE	13	20	20	14	RECEPTS – TELLER	720	1440		
720	RECEPTS – TELLER	15	20	20	16	RECEPTS – WORK ROOM	720		1440	
720	RECEPTS – OFFICE	17	20	20	18	RECEPTS – DRIVE TELLER	720		1440	
720	RECEPTS – TELLER	19	20	20	20	RECEPTS – DRIVE TELLER	720	1440		
720	RECEPTS – DRIVE TELLER	21	20	22	WATER HEATER	1500		2220		
720	RECEPTS – TELLER CTER	23	20	24	WATER COOLER	500			1220	
720	RECEPTS – TELLER CTER	25	20	26	LIGHTS – PARKING LOT	356	1076			
300	BANK SIGN (AS&I TT)	27	20	28	SPARE			300		
300	BANK SIGN (AS&I TT)	29	20	30	SPARE				300	
300	BANK SIGN (AS&I TT)	31	20	32	BURGER ALARM	500	800			
500	TELLER WINDOW	33	20	34	TELLER WINDOW	500		1000		
500	TELLER WINDOW	35	20	36	NEW CONTROLLER	500			1000	
500	TELLER WINDOW	37	20	38	AIR COND. CONTROLS	500	1000			
500	LOAD	39	20	40	KITCHEN UNIT	500		1000		
500	LOAD	41	20	42	LOAD	500			1000	
SECTION TWO (SUBFED)				SECTION TWO (SUBFED)						
5760	RTU-2	43	60	20	44	R.-CONFERENCE/CORR.	1260	7020		
5760		45		20	46	R.-OFFICE/CORRIDOR	900		6660	
5760		47		20	48	R.-OFFICE	720		6480	
	SPACE	49		20	50	R.-OFFICE	720	720		
	SPACE	51		20	52	R.-COPY	360		360	
	SPACE	53		20	54	R.-TOILETS/ROOF	540		540	
	SPACE	55		20	56	R.-TELECOM BOARD	360	360		
	SPACE	57		20	58	R.-TELECOM BOARD	360		360	
	SPACE	59		20	60	L.-CONFERENCE/OFFICES	720		720	
	SPACE	61		20	62	L.-CORRIDOR/TOILETS	324	324		
	SPACE	63		20	64	ELECTRIC WATER COOLER	500		500	
	SPACE	65		20	66	SPARE				
	SPACE	67		20	68	SPARE				
	SPACE	69		20	70	SPARE				
	SPACE	71		20	72	SPARE				
	SPACE	73		20	74	SPARE				
	SPACE	75		20	76	SPARE				
	SPACE	77		20	78	SPARE				
	SPACE	79		20	80	SPARE				
	SPACE	81		20	82	SPARE				
	SPACE	83		20	84	SPARE				

△ EXISTING CIRCUIT TRANSFERRED FROM DEMOLISHED PANEL.

△ GFCI TYPE BREAKER.

TOTAL L1	16580
TOTAL L2	15940
TOTAL L3	14200
TOTAL VA	46720

130 AMPS CONNECTED
@ 208V, 3PH



310 MILLS AVE. GREENVILLE, SC 296
864.242.9881
plans@narramore.net

SEAL



Edgefield County
SCHOOL DISTRICT

ECSD OFFICE EXPANSION

425 LEE ST
JOHNSTON SC 29832

REVISIONS

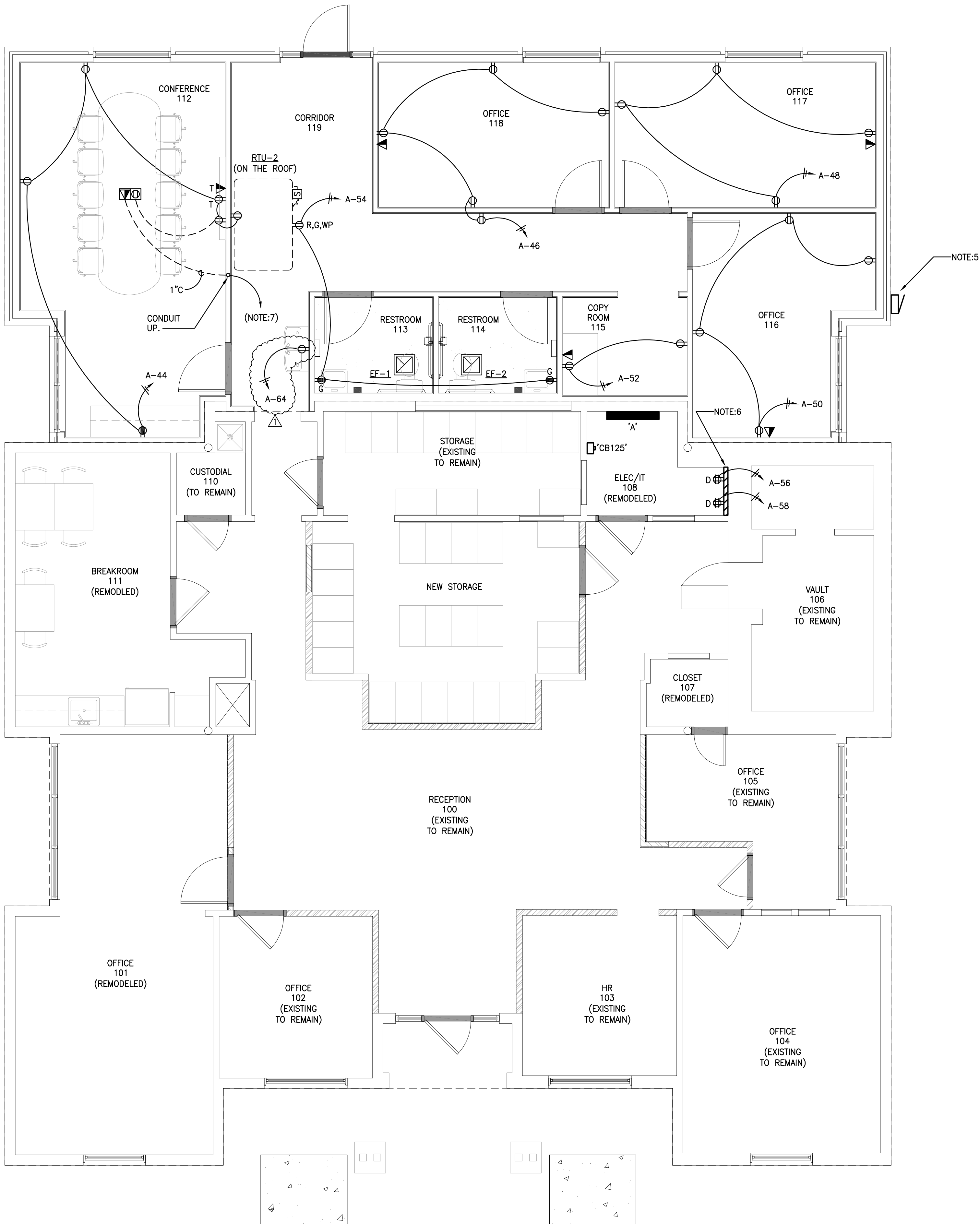
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E1.2

ELECTRICAL DEMOLITION PLAN



E1.2



PLAN NOTES:

- FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
- VERIFY ALL LOCATIONS, ELECTRICAL CIRCUIT AND CONNECTION REQUIREMENTS FOR ALL HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE "MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE" FOR CIRCUIT AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
- VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND TELE/DATA OUTLETS CONNECTIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS:
#10 AWG SHALL BE USED FOR CKTS LONGER THAN 75 FEET
#12 AWG SHALL BE USED FOR CKTS SHORTER THAN 75 FEET
- NEW LOCATION FOR RELOCATE EXISTING TELECOM SERVICE FIBER LINE. TAP AND EXTEND ALL CONDUIT AND WIRING FRO PREVIOUS LOCATION. COORDINATE WITH TELEPHONE CO. FOR ADDITIONAL INFORMATION PRIOR TO ANY WORK.
- NEW LOCATION FOR EXISTING BUILDING TELECOMMUNICATIONS SYSTEM EQUIPMENT. TAP AND EXTEND ALL CONDUIT AND WIRING FROM PREVIOUS LOCATION. COORDINATE WITH OWNER FOR ADDITIONAL INFORMATION PRIOR TO ANY WORK.
- STUB CONDUIT UP 6" ABOVE FINISHED CEILING.

MECHANICAL EQUIPMENT ELECTRICAL SCHD.

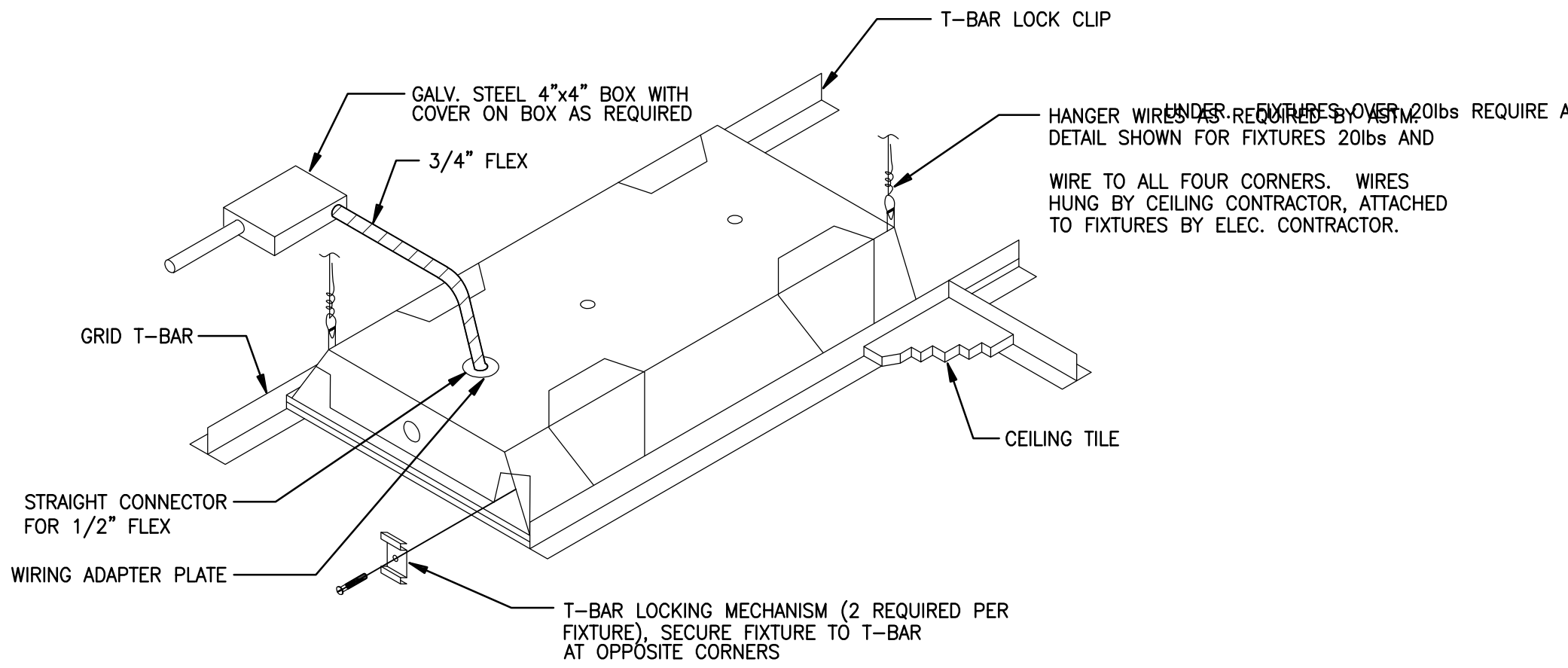
EQUIP.	CIRCUIT #	FEEDER	LOCAL DISCONNECT	NOTES:
RTU-2	A-43/45/47	3#6,1#10(G)-1" C	60/3/F/3R	1,2
EF-1	TIE TO RM. LTG.	2#12,1#12(G)-3/4" C	TOGGLE TYPE	1
EF-2	TIE TO RM. LTG.	2#12,1#12(G)-3/4" C	TOGGLE TYPE	1

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE NOTES:

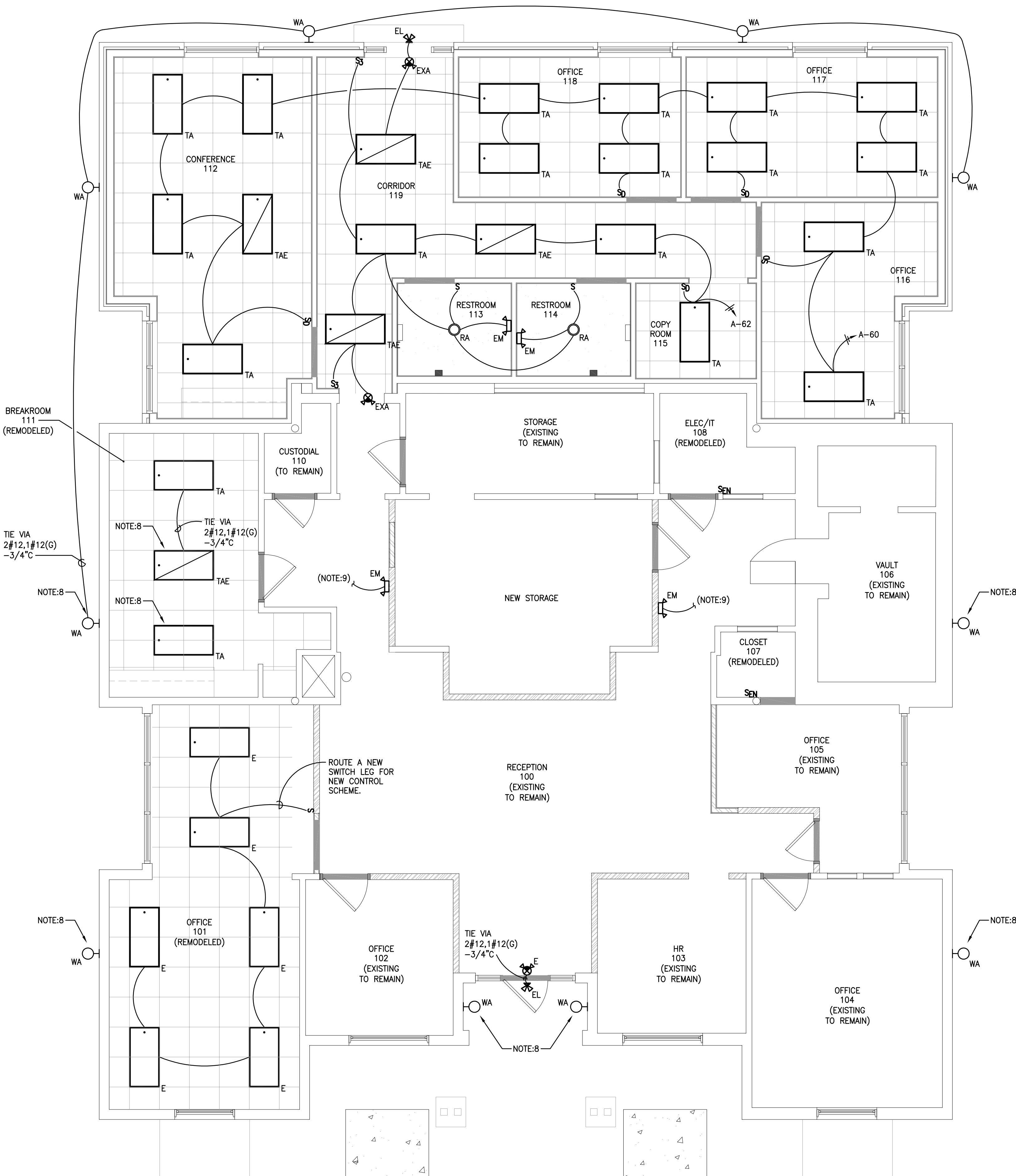
- CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT. LOCATION OF MECHANICAL EQUIPMENT SHOWN ARE FOR GENERAL INFORMATION PURPOSES ONLY.
- INSTALL DISCONNECTING MEANS ADJACENT AND ACCESSIBLE TO ALL MECHANICAL EQUIPMENT. FIELD COORDINATE EXACT MOUNTING LOCATION.

PLAN NOTES:

- FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
- UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS:
#10 AWG SHALL BE USED FOR CKTS LONGER THAN 75 FEET
#12 AWG SHALL BE USED FOR CKTS SHORTER THAN 75 FEET
- COORDINATE WITH CABINETRY INSTALLER FOR THE ROUTING OF CONDUIT AND MOUNTING OF DEVICES IN ALL MILLWORK.
- PULL AN UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT TO ALL EXIT AND EMERGENCY LIGHTING FIXTURES SHOWN UNLESS INDICATED OTHERWISE ON PLANS.
- DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE LAYOUT WITH OTHER TRADES.
- DETERMINE EXACT LOCATION FOR ALL LIGHT SWITCHES AND CONTROLS WITH THE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- COORDINATE WITH ARCHITECTURAL EGRESS PLAN FOR EXACT LOCATION OF ALL EXIT SIGNS.
- EXISTING LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW AS SHOWN. RECONNECT TO EXISTING CIRCUIT, FIELD LOCATE EXISTING LIGHTING CIRCUIT.
- TIE TO AN EXISTING LIGHTING CIRCUIT CURRENTLY SERVING THE AREA. TIE AHEAD OF ALL LOCAL SWITCHING FOR CONSTANT POWER TO THE FIXTURE BATTERY. FIELD LOCATE EXISTING LIGHTING CIRCUIT. FOR BIDDING PURPOSES ASSUME 50'-0" OF 2#12, 1#12(G) -3/4"C.



2 TYPICAL GRID FIXTURE MOUNTING DETAIL
SCALE: N.T.S.



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