

**SECTION I:
GOVERNING CODES**

APPLICABLE CODES AND STANDARDS

- 2018 INTERNATIONAL BUILDING CODE (WITH GEORGIA AMENDMENTS 2020)
2018 INTERNATIONAL FIRE CODE (WITH GEORGIA AMENDMENTS 2020)
2018 INTERNATIONAL PLUMBING CODE (WITH GEORGIA AMENDMENTS 2020)
2018 INTERNATIONAL MECHANICAL CODE (WITH GEORGIA AMENDMENTS 2020)
2018 INTERNATIONAL FUEL GAS CODE (WITH GEORGIA AMENDMENTS 2020)
2020 NATIONAL ELECTRIC CODE (WITH NO GEORGIA AMENDMENTS)
2015 INTERNATIONAL ENERGY CONSERVATION CODE (WITH GEORGIA SUPPLEMENTS AND AMENDMENTS 2020)
2018 LIFE SAFETY CODE NFPA 101 (WITH STATE AMENDMENTS 2020)
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN FOR TITLES II AND III FACILITIES (2018 IBC GEORGIA AMENDMENTS: TITLE 30, CHAPTER 3)

AUTHORITY HAVING JURISDICTION (AHJ)
CITY OF CONVINGTON, GEORGIA (LOCAL AHJ)

PROJECT DESCRIPTION
THE WORK CONSISTS OF RENOVATION OF AN EXISTING WAREHOUSE BUILDING. THE WORK SHALL BE SPLIT INTO (3) BID PACKAGES WITH VARYING DEGRESS OF WORK..

THE FIRST BID PACKAGE SHALL CONSIST OF RENOVATING THE OFFICES TO INCLUDE NEW TOILET ROOMS, OFFICE SPACE, CONFERENCE AREAS AND ACCOMPANYING SUPPORT SPACES. ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND EXTERIOR CANOPY WILL BE PART OF THE PROJECT.

THE SECOND BID PACKAGE SHALL CONSIST OF RENOVATING THE WEST FACTORY PORTION. THIS WILL BE SUBMITTED UNDER A DIFFERENT PERMIT.

THE THIRD BID PACKAGE SHALL CONSIST OF RENOVATING THE EAST FACTORY AND IT WILL BE LIMITED IN ARCHITECTURAL SCOPE. THIS WILL BE SUBMITTED UNDER A DIFFERENT PERMIT.

**SECTION II:
BUILDING "CONSTRUCTION" DATA**

Table with 2 columns: Description and Value. Includes rows for Type of Construction, Proposed Building Height, Maximum Allowable Building Height, Proposed Number of Stories, Maximum Number of Stories Allowed, Basement Indication, First Floor Area, Second Floor Area, Building Floor Area, Total Existing Building Area, and Parking Requirements.

**SECTION III:
BUILDING "OCCUPANCY" DATA**

Table with 2 columns: Description and Value. Includes rows for Building Occupancy Classification, Accessory Occupancies, Required Accessory Occupancy Separation, and Accessory Area Limitation. Includes a summary table for Group Allowable vs Actual area.

RATIO, GROUP H AREA LESS THAN X% < 100% RATIO LIMIT AND < 33,624 SF (10% OF BUILDING AREA)
RATIO, GROUP B AREA 4% < 100% RATIO LIMIT AND < 33,624 SF (10% OF BUILDING AREA)

H OCCUPANCIES ALL LOCATED ON FIRST STORY (507.8.4)

Table with 2 columns: Incidental Uses and Value (None).

**SECTION III: CONTINUED
BUILDING "OCCUPANCY" DATA**

Table with 3 columns: Function of Space, Occupant Load Factor, and Functional Area. Lists various building areas like Factory Industrial Areas, Low-Hazard Storage, High Hazard Areas, and Business Areas.

Table with 3 columns: Description, Calculated Occupant Load, and Declared Occupant Load. Includes rows for Factory Industrial Areas, Hazard Areas, Business, and Total Building Design Occupant Load.

Table with 2 columns: Description and Value. Includes rows for Provided Egress Width and Provided Stair Egress Width.

**SECTION IV:
BUILDING ALLOWABLE MODIFICATIONS**

- ALLOWABLE AREA: Fully sprinklered, two-story building (Group F-1/S-2 occupancy) surrounded by yards not less than 60 feet in width.
ALLOWABLE HEIGHT: 75 feet maximum (existing to remain)
EXCEPTIONS: Buildings and structures designed to house special industrial processes that require large areas and unusual building heights...

**SECTION V:
"FIRE RESISTIVE" BUILDING ELEMENTS**

Table with 4 columns: Description, Required, and Provided. Lists structural frame, bearing walls, exterior non-bearing walls and partitions, exterior non-bearing walls and partitions, interior non-bearing walls and partitions, floor construction, and roof construction.

**SECTION V: CONTINUED
"FIRE RESISTIVE" BUILDING ELEMENTS**

- REQUIRED FIRE RESISTANCE RATING OF OTHER ELEMENTS: Fire Barriers
HORIZONTAL EXITS: 2 HR Required, 2 HR Provided
EXIT STAIRS: 1 HR Required, 1 HR Provided
EXIT PASSAGEWAYS: 1 HR Required, 1 HR Provided
CORRIDORS SERVING OVER 30 OCCUPANTS (F-2 & B): 0 HR Required, 0 HR Provided
CORRIDORS SERVING OVER 30 OCCUPANTS (H-4): 1 HR Required, 1 HR Provided
ELECTRICAL ROOM SEPARATION: 0 HR Required, 0 HR Provided
ACTUAL WIDTH OF OPENINGS WITHIN FIRE BARRIERS: Refer to floor plans, sections and schedules
MAXIMUM ALLOWABLE SUM OF OPENING WIDTH IN EACH FIRE BARRIER: <= 25% OF WALL LENGTH
FIRE RESISTIVE RATING OF FIRE BARRIER OPENING PROTECTION: Refer to floor plans, sections and schedules
DOORS IN 2-HR FIRE BARRIER: 1.5 HRS
FIRE RESISTIVE RATING OF FIRE WALLS: 2 HRS
ACTUAL AREA OF OPENINGS IN EA FIRE WALL: Refer to floor plans, sections and schedules
ALLOWABLE SUM OF OPENING WIDTH IN EA FIRE WALL: <= 25% OF WALL LENGTH
FIRE RESISTIVE RATING OF OPENING PROTECTION: 1.5 HR
OTHER RATED ASSEMBLIES AND RATING OF EACH: Refer to floor plans, sections and schedules
SMOKE REMOVAL SYSTEM PROVIDED: YES
SMOKE REMOVAL SYSTEM PROVIDED: YES

**SECTION VI:
BUILDING EGRESS**

- REFER TO CODE ANALYSIS PLANS FOR ROOM AREAS AND OCCUPANT LOADS
EXITS REQUIRED BASED ON EGRESS DESIGN BASIS: Level 1: 4, Level 2: 1
EXITS PROVIDED: Level 1: 5, Level 2: 1
EXITS PROVIDED IN EA ROOM OR AREA: Refer to life safety plans
EXIT WIDTH REQUIRED FOR EA EXIT: Refer to life safety plans
EXIT WIDTH PROVIDED FOR EA STAIR: Refer to floor plans
EXIT WIDTH PROVIDED FOR CORRIDORS: Refer to floor plans
EMERGENCY EXIT ILLUMINATION PLAN: Refer to electrical plans
EXIT SIGN LAYOUT PLAN: Refer to electrical plans
EXIT TRAVEL DISTANCE & COMMON PATH: Refer to life safety plans

Table with 6 columns: Occupancy, F-1, S-2, H-4, H-3, B. Lists travel distance and common path for various occupancy types.

* THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE 400 FEET (122 M) IN GROUP F-1 OR S-1 OCCUPANCIES WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:

- THE PORTION OF THE BUILDING CLASSIFIED AS GROUP F-1 OR S-1 IS LIMITED TO ONE STORY IN HEIGHT.
THE MINIMUM HEIGHT FROM THE FINISHED FLOOR TO THE BOTTOM OF THE CEILING OR ROOF SLAB OR DECK IS 24 FEET (7315 MM).
THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

**SECTION VII:
SPECIAL OCCUPANCIES AND OPERATIONS**

Table with 2 columns: Description and Value. Includes row for High Piled Combustible Storage.

**SECTION VIII:
BUILDING "FIRE DETECTION AND SUPPRESSION"**

- SMOKE DETECTION OR FIRE ALARM SYSTEM REQUIRED: NO
SMOKE DETECTION OR FIRE ALARM SYSTEM PROVIDED: YES
SMOKE DETECTION / FIRE ALARM SYSTEM DATA: System Type(s): SMOKE DETECTION: YES, ALARM: MANUAL FIRE ALARM SYSTEM
EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM: NO
EMERGENCY RESPONDER RADIO COVERAGE: YES
FIRE DEPT. COMMUNICATION SYSTEM REQUIRED: NO
FIRE COMMAND CENTER REQUIRED: NO
SPRINKLER SYSTEM REQUIRED: YES
TYPE OF SPRINKLER SYSTEM PROVIDED: ALL
SYSTEM TYPE(S): ALL AREAS: AUTOMATIC SPRINKLER SYSTEM
LOCATION OF SPRINKLER SYSTEM WATER SOURCE: TBD
STANDPIPE SYSTEM REQUIRED: NO
STANDPIPE SYSTEM PROVIDED: NO
FIRE EXTINGUISHER LOCATIONS: REFER TO LIFE SAFETY PLANS

**SECTION X:
OCCUPANCY VENTILATION REQUIREMENTS**

- OUTSIDE AIR / OCCUPANCY VENTILATION TABLE: REFER TO MECHANICAL DRAWINGS.

**SECTION XI:
ENERGY CODE REQUIREMENTS**

- CLIMATE ZONE: 3A
BELOW THE WARM-HUMID LINE: NO
BUILDING ALTERATION EXCEPTION: (PER IECC SECTION C301)

ALTERATIONS TO AN EXISTING BUILDING, BUILDING SYSTEM OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THIS CODE AS THOSE PROVISIONS RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTIONS OF THE EXISTING BUILDING OR BUILDING SYSTEM TO COMPLY WITH THIS CODE.

EXCEPTION: THE FOLLOWING ALTERATIONS NEED NOT COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION, PROVIDED THE ENERGY USE OF THE BUILDING IS NOT INCREASED:

- STORM WINDOWS INSTALLED OVER EXISTING FENESTRATION.
SURFACE-APPLIED WINDOW FILM INSTALLED ON EXISTING SINGLE-PANE FENESTRATION ASSEMBLIES REDUCING SOLAR HEAT GAIN, PROVIDED THE CODE DOES NOT REQUIRE THE GLAZING OR FENESTRATION TO BE REPLACED.
EXISTING CEILING, WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION, PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION.
CONSTRUCTION WHERE THE EXISTING ROOF, WALL OR FLOOR CAVITY IS NOT EXPOSED.
ROOF RECOVER.
AIR BARRIERS SHALL NOT BE REQUIRED FOR ROOF RECOVER AND ROOF REPLACEMENT WHERE THE ALTERATIONS OR RENOVATIONS TO THE BUILDING DO NOT INCLUDE ALTERATIONS, RENOVATIONS OR REPAIRS TO THE REMAINDER OF THE BUILDING ENVELOPE.
ALTERATIONS THAT REPLACE LESS THAN 50 PERCENT OF THE LUMINAIRES IN A SPACE, PROVIDED THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER

ASSEMBLY MAXIMUM INSULATION MINIMUM R-VALUE

Table with 3 columns: Description, U-value, and R-value. Lists insulation requirements for roofs, attics, walls, and floors.

Table with 3 columns: Description, U-value, and R-value. Lists insulation requirements for walls above grade and floors below grade.

Table with 3 columns: Description, U-value, and R-value. Lists insulation requirements for slabs on grade floors and opaque doors.

FENESTRATION
VERTICAL FENESTRATION (30% MAXIMUM OF ABOVE-GRADE WALL) SKYLIGHT AREA <= 3% MAXIMUM OF GROSS ROOF AREA OR 6% MAX WITH DAYLIGHT RESPONSIVE CONTROLS)

METAL FRAMING WITH OR WITHOUT THERMAL BREAK
METAL FRAMING (FIXED) U-FACTOR U= 0.50
METAL FRAMING, ENTRANCE DOOR U-FACTOR U= 0.83

SHGC - ALL FRAME TYPES
REFER TO TABLE C402.4 FOR ORIENTATION AND PROJECTION FACTORS

**SECTION XII:
HAZARDOUS MATERIALS**

- HAZARDOUS MATERIALS PRESENT IN BUILDING: NONE TO BE PRESENT IN OFFICE RENOVATION BID PACKAGE 1
MATERIAL SAFETY DATA SHEETS PROVIDED: NO
HAZARDOUS MATERIALS MANAGEMENT PLAN PROVIDED: PROVIDED BY OWNER PRIOR TO OCCUPANCY
WATER REACTIVE MATERIALS PRESENT IN BUILDING: NO

**SECTION XIII:
ACCESSIBILITY**

- SITE EXTERIOR ROUTE OF TRAVEL: REFER TO CIVIL DRAWINGS
BUILDING INTERIOR ROUTE OF TRAVEL: REFER TO AISLEWAY LAYOUTS ON FLOOR PLANS. ELEVATED AREAS ARE NOT REQUIRED TO BE ACCESSIBLE. ACCESSIBLE ROUTE NOT PROVIDED

**SECTION XIV:
PLUMBING FIXTURE COUNT REQUIREMENTS**

Table with 3 columns: Description, Calculated Occupant Load, and Proposed Area (Actual Count). Includes rows for Group B Egress Design Basis, Minimum Plumbing Fixture Calculations, Occupant Load by Sex, and Plumbing Fixture Count.

MINIMUM PLUMBING FIXTURE CALCULATIONS: (PER IBC CHAPTER 29 AND TABLE 2902.1)

- OCCUPANT LOAD BY SEX: MEN RATIO: 50%, WOMEN RATIO: 50%
PLUMBING FIXTURE COUNT: REFER TO IBC CHAPTER 29 AND TABLE 2902.1

Table with 4 columns: Description, Calc. Basis, Required, and Provided. Lists fixture counts for men's water closets, women's water closets, unisex water closets, total water closets, men's lavatories, women's lavatories, unisex lavatories, total lavatories, drinking fountains, and service sinks.

**SECTION XV:
UNDERGROUND AND PAD MOUNTED TRANSFORMERS**

NOT APPLICABLE

**SECTION XVI:
SPECIAL INSPECTIONS, STRUCTURAL OBSERVATION AND DEFERRED SUBMITTALS**

- SPECIAL INSPECTIONS REQUIRED: YES
STRUCTURAL DRAWINGS FOR LIST OF SPECIAL INSPECTIONS
STRUCTURAL OBSERVATION REQUIRED: YES
SEPARATE PERMITS: YES
SEPARATE PERMITS LIST: FIRE PROTECTION - AUTOMATIC SPRINKLERS, FIRE PROTECTION - FIRE ALARM, GENERAL ASSEMBLY PROCESS EQUIPMENT
DEFERRED SUBMITTALS: YES
DEFERRED SUBMITTALS LIST: BUILDING SIGNAGE

NOTE: SEPARATE PERMITS AND DEFERRED SUBMITTALS MUST BE REVIEWED BY SSOE BEFORE SUBMISSION TO AHJ. WHEN DETERMINED THEY ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, AN SSOE COVER LETTER INDICATING SUCH WILL BE PROVIDED SO THEY CAN BE SUBMITTED TO THE AHJ FOR THEIR REVIEW AND PERMITS.

- FUTURE MODIFICATIONS: BUILDING OFFICIAL REQUESTS REVIEW OF FUTURE MODIFICATIONS.

SHADING SHOWS AREAS THAT ARE NOT INCLUDED IN THE SCOPE OF THIS PACKAGE



CONSULTANTS:

Issued For CONSTRUCTION
05/03/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS logo and address: 9172 INDUSTRIAL DR NE COVINGTON, GA 30014

CLIENT PROJECT NO: XXX-XXXX-XX

Table with 3 columns: NO., DATE, SUBJECT. Includes revision or issue tracking table.

NO. | DATE | SUBJECT
REVISION OR ISSUE

SSOE, Inc.
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PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: Checker

DRAWING TITLE:
CODE DATA / SUMMARIES

DRAWING NO:
AE-001

GENERAL NOTES

NOTE 1: MOUNTING HEIGHTS SHOWN ARE FOR ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS.

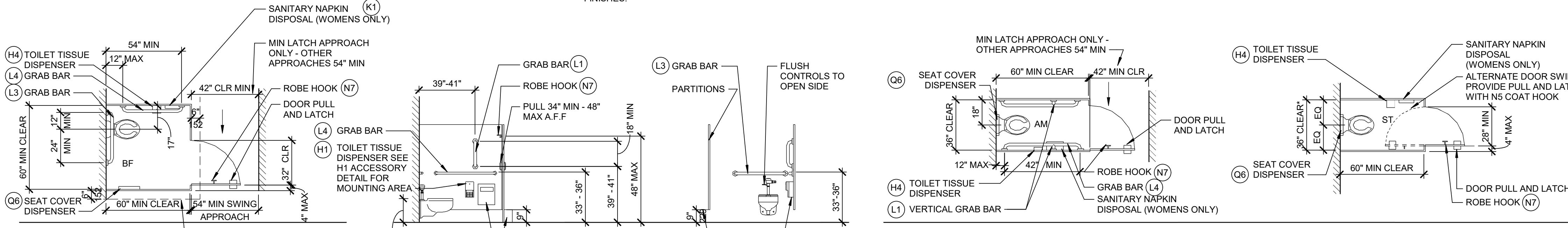
NOTE 2: THE REFERENCE STANDARDS FOR THESE DETAILS IS THE 2009 INTERNATIONAL CODE COUNCIL A117.1-2009, ACCESSIBLE AND USABLE BUILDING AND FACILITIES, AS REFERENCED BY CHAPTER 11 OF THE INTERNATIONAL CODE COUNCIL MODEL CODES AND THE DEPARTMENT OF JUSTICE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

NOTE 3: THE BASIS OF DESIGN FOR THESE DETAILS IS BOBRICK. REFER TO THE SPECIFICATION MANUAL FOR OTHER MANUFACTURERS. ADJUST MOUNTING TO MATCH CRITICAL DIMENSIONS AND OPERATION REQUIREMENTS AND REACH RANGES.

NOTE 4: DIMENSIONS NOTED AS MINIMUM / MAXIMUM OR CLEAR INDICATE FINISHED DIMENSION AND MUST BE MAINTAINED. ADJUST WALL DIMENSIONS IF NECESSARY TO MAINTAIN REQUIRED CLEARANCES BETWEEN FIXTURES AND FINISHES.

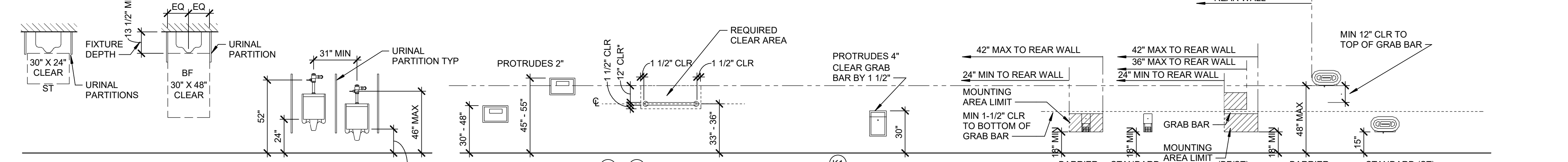
NOTE 5: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUND (22.2N) MAXIMUM.

NOTE 6: PROVIDE BARRIER FREE (BF), AMBULATORY (AM) OR STANDARD (ST) DETAILS AS INDICATED ON FLOOR PLANS. MOUNT ALL ACCESSORIES AS INDICATED BELOW IN EACH TOILET STALL TYPE. PROVIDE MINIMUM (1) SET OF BARRIER FREE (BF) ACCESSORIES FOR EACH BARRIER FREE (BF) FIXTURE.

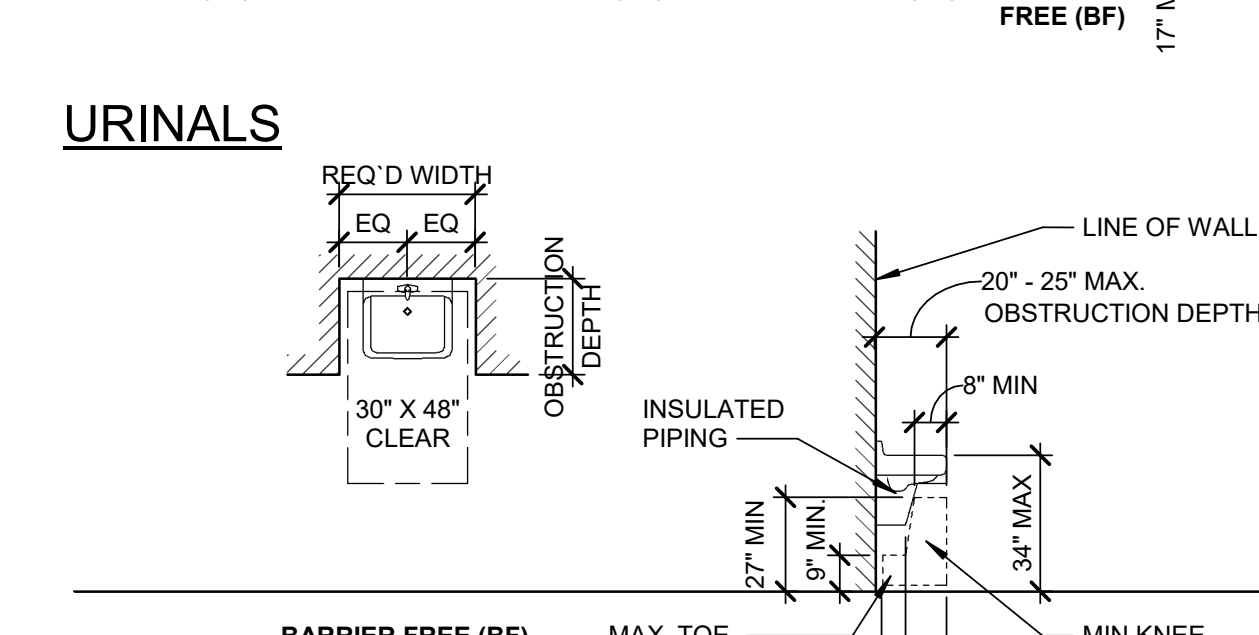


BARRIER FREE (BF)
GENERAL NOTE: PROVIDE 9" TOE CLEARANCE EXTENDING 6" BEYOND THE COMPARTMENT FRONT AND SIDE FACE OF THE PARTITION. EXCLUSIVE OF PARTITION SUPPORT MEMBERS TYPICAL. IF 9" TOE CLEARANCE IS NOT PROVIDED AT PARTITIONS, EXTEND COMPARTMENT DEPTH TO 62" AT WALL HUNG TOILETS AND 65" AT FLOOR MOUNTED TOILETS MINIMUM. MAINTAIN ALL OTHER CLEARANCES.

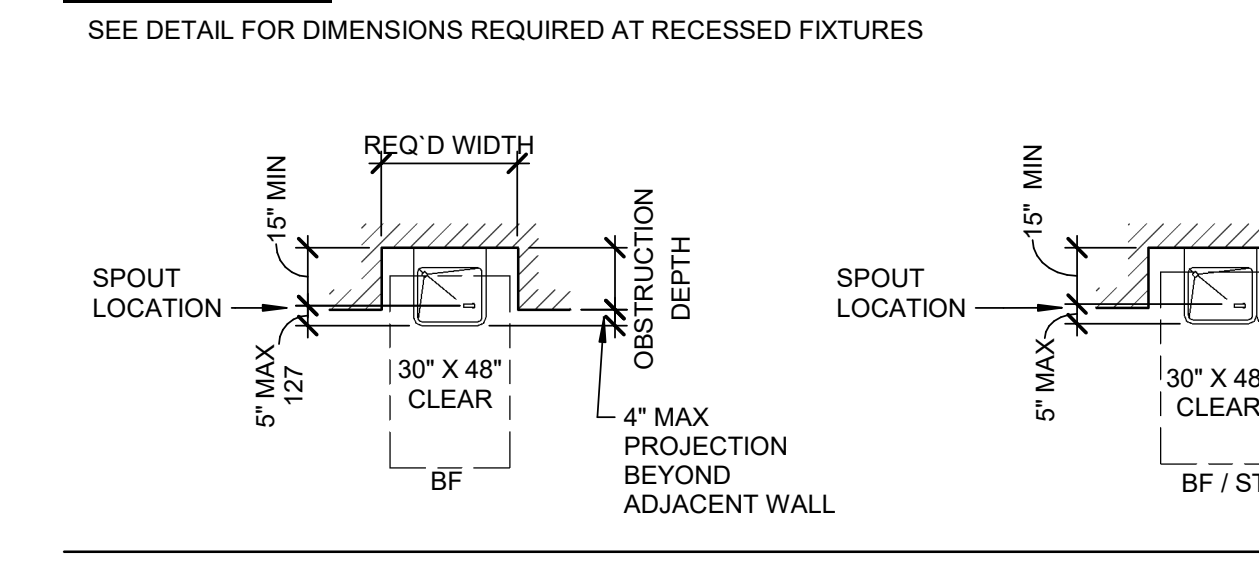
WATER CLOSET



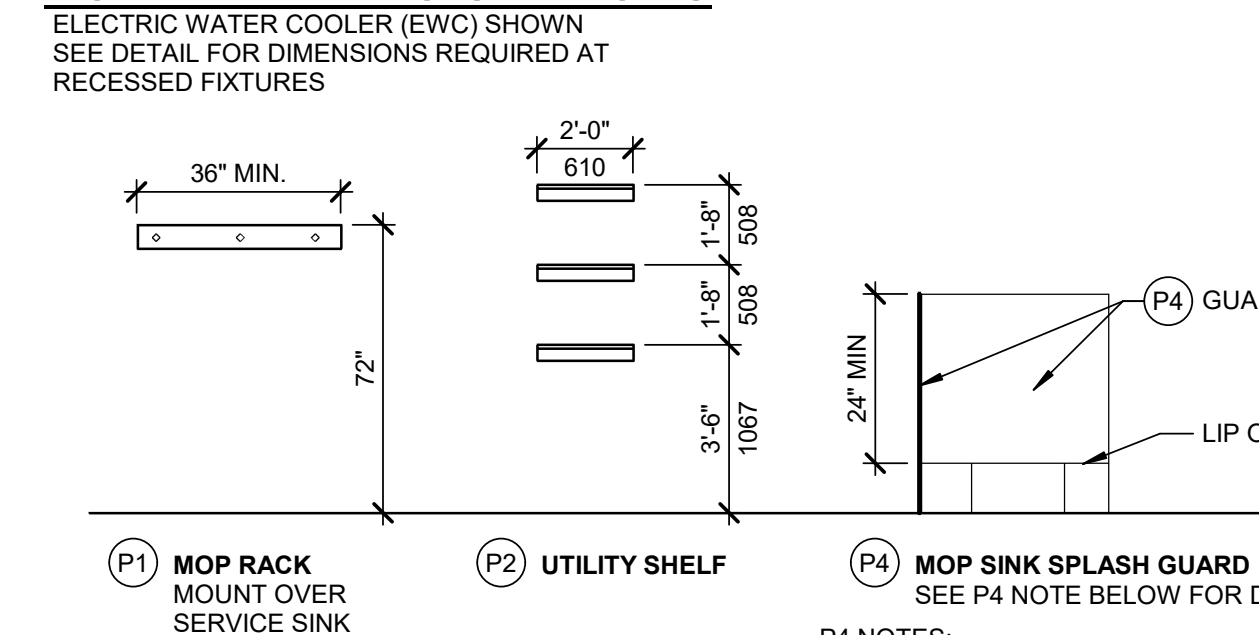
URINALS



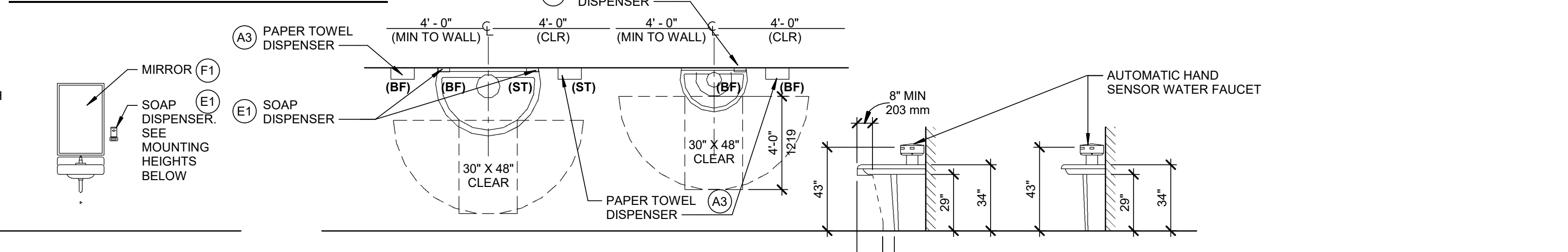
LAVATORY



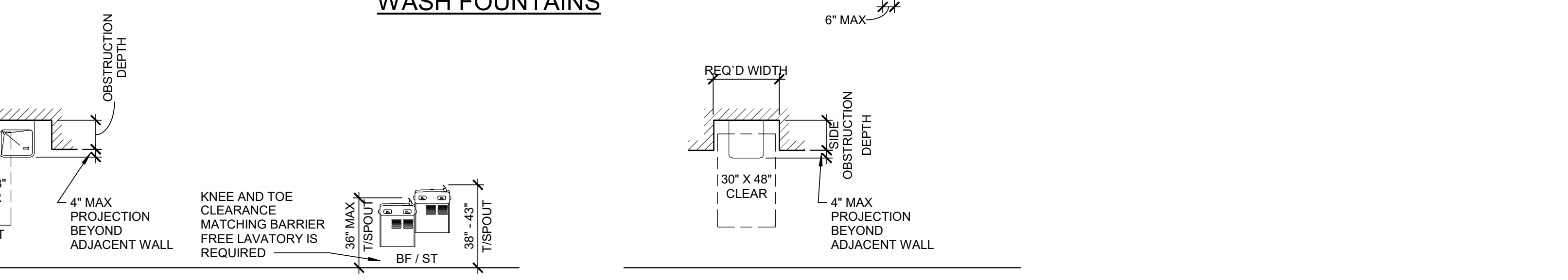
DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS



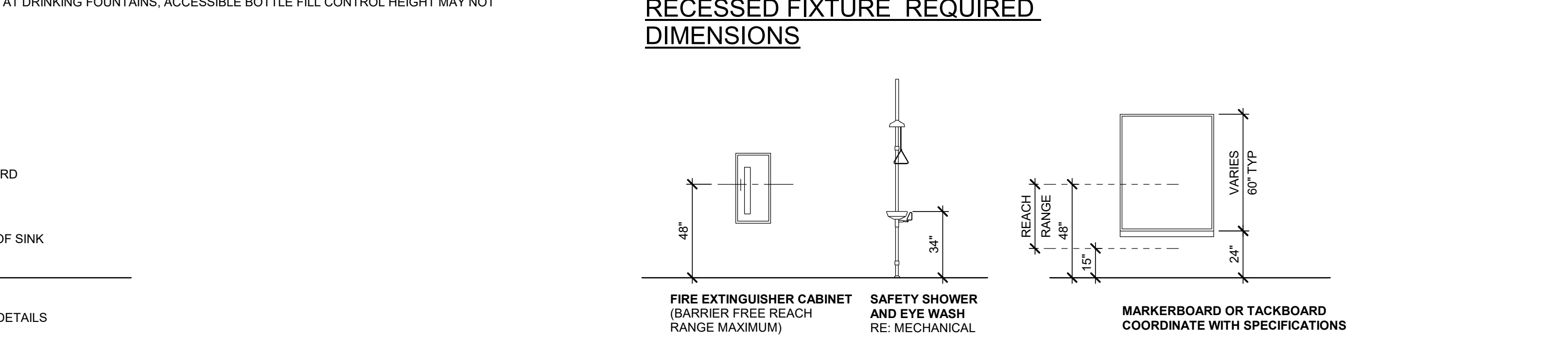
WATER CLOSET ACCESSORIES



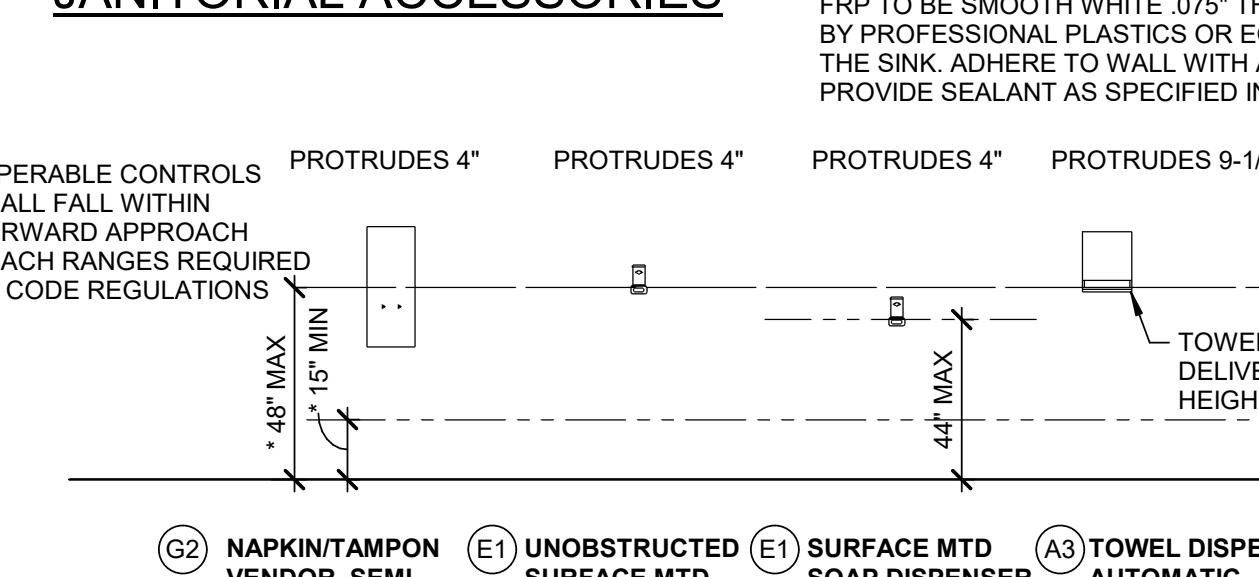
WASH FOUNTAINS



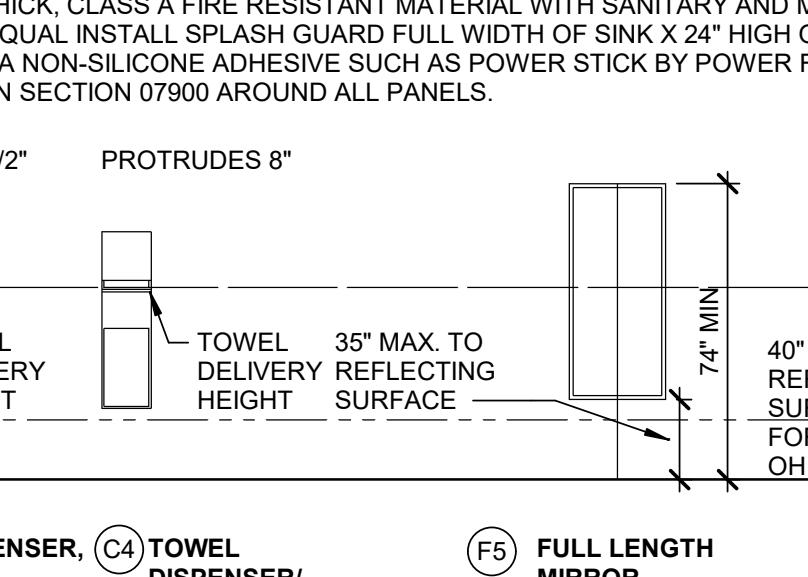
RECESSED FIXTURE REQUIRED DIMENSIONS



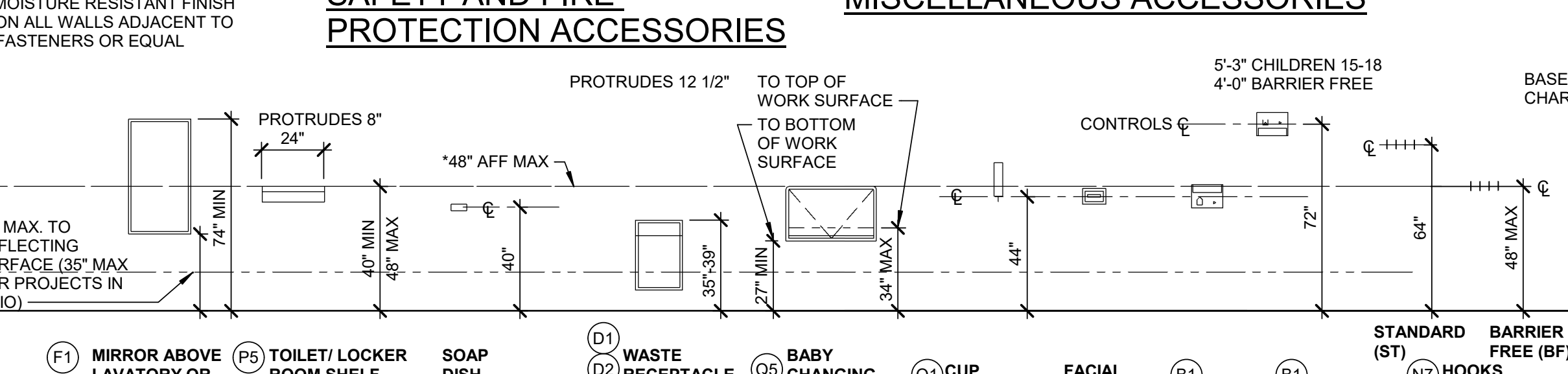
JANITORIAL ACCESSORIES



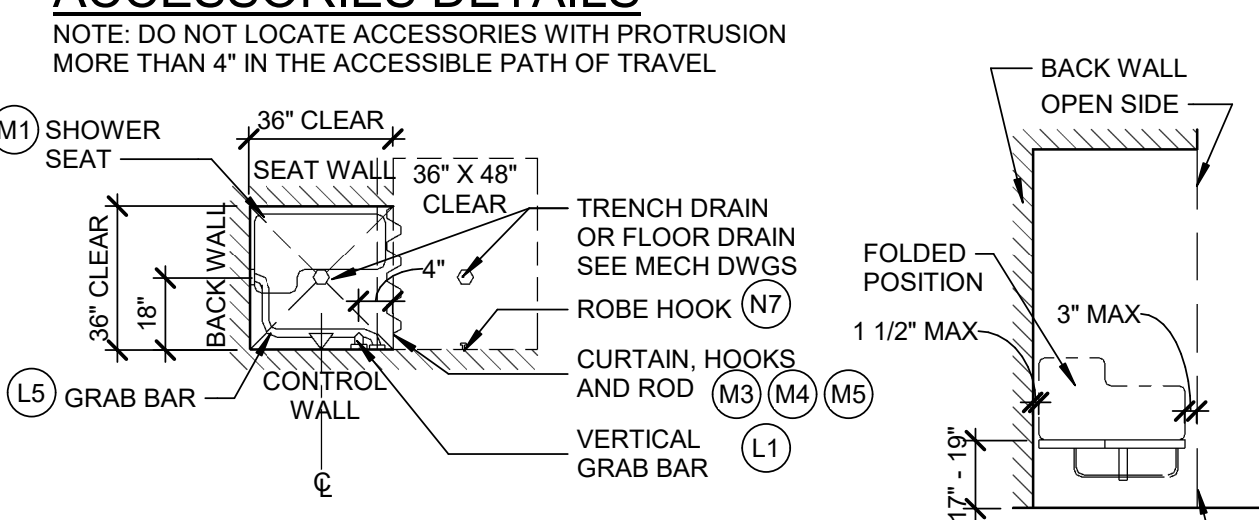
SAFETY AND FIRE PROTECTION ACCESSORIES



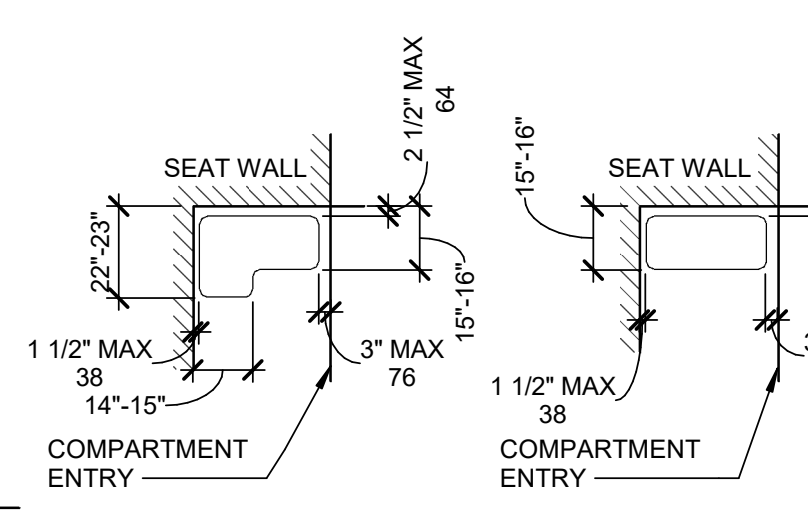
MISCELLANEOUS ACCESSORIES



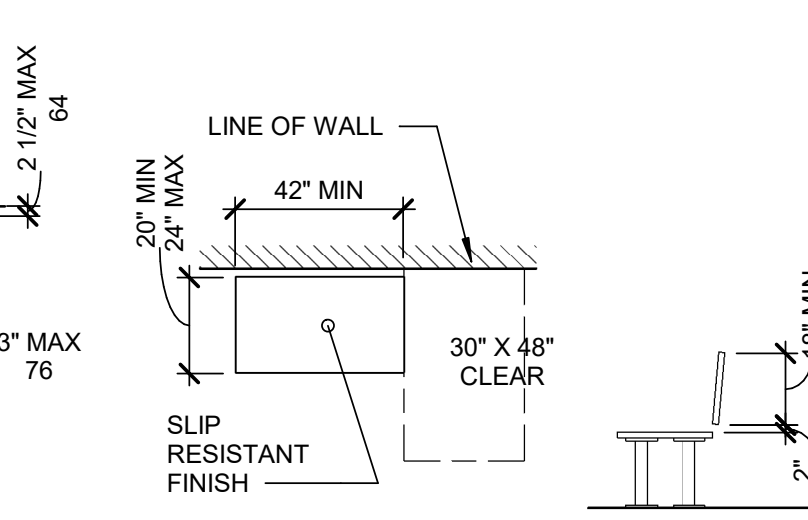
ACCESSORIES DETAILS



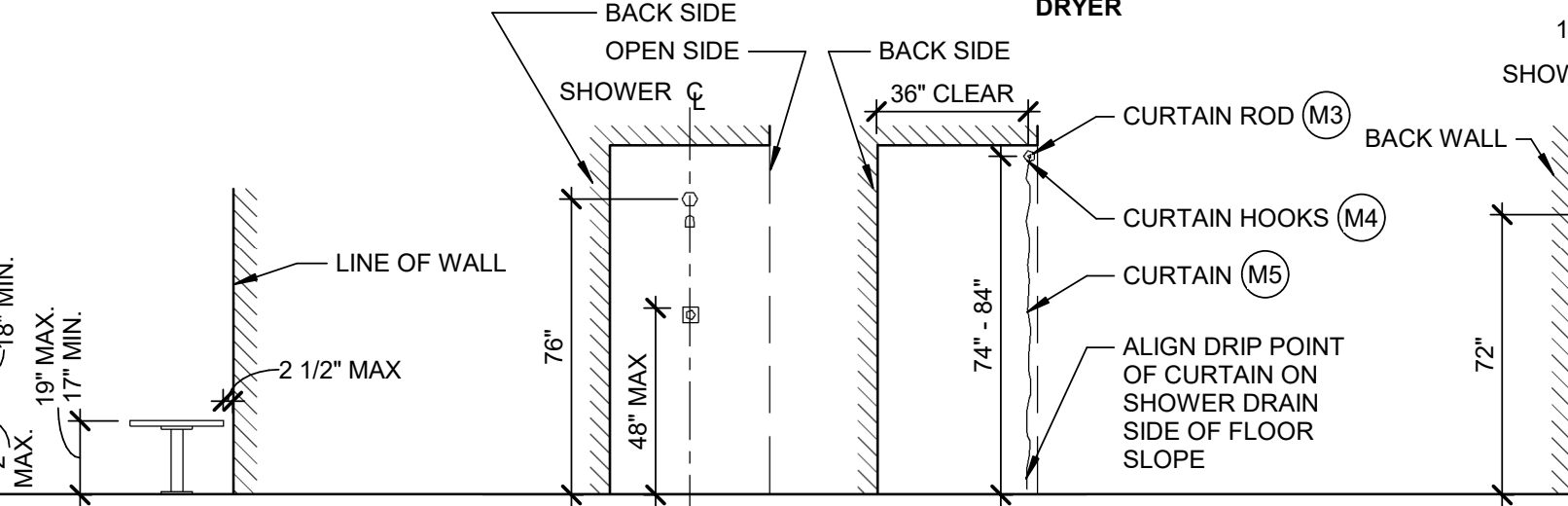
SHOWER STALL AND ACCESSORIES



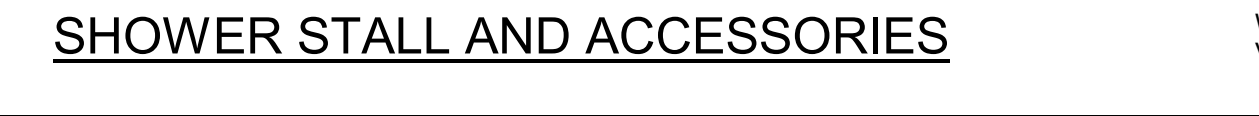
BARRIER FREE BENCH



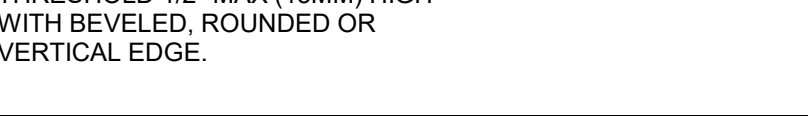
MISCELLANEOUS BARRIER FREE REQUIREMENTS



LOCKER DETAILS



LOCKER DETAILS



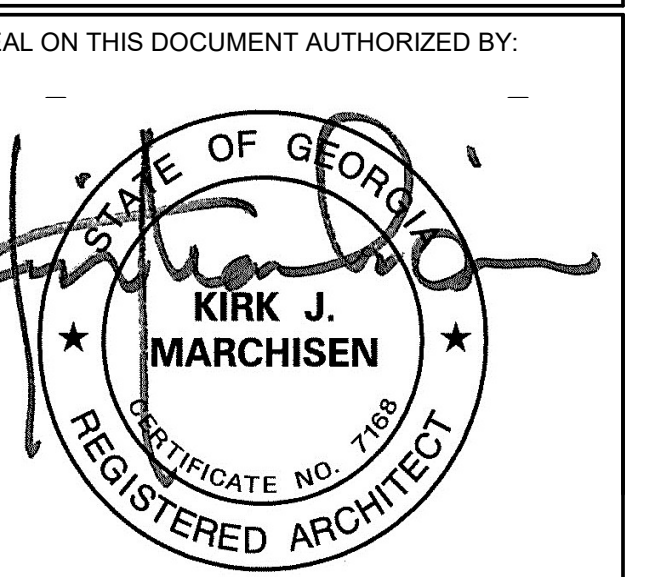
Reference Toilet Accessory Schedule

KEY	ITEM DESCRIPTION	BASIS OF DESIGN REFER TO SPEC FOR MANUFACTURERS	PROVIDED BY OWNER (O) OR CONTRACTOR (C)	INSTALLED BY OWNER (O) OR CONTRACTOR (C)
PAPER TOWEL DISPENSERS				
A1	SURFACE MOUNTED PAPER TOWEL DISPENSER			
A2	RECESSED PAPER TOWEL DISPENSER			
A3	SURFACE MOUNTED ROLL PAPER TOWEL DISPENSER	BOBRICK B-72974		
ELEC HAND DRYERS				
B1	SURFACE MOUNTED HAND DRYER			
B2	SURFACE MOUNTED HAND DRYER, ACCESSIBLE HAIR DRYER			
PAPER TOWEL / WASTE COMBO				
C1	SURFACE MOUNTED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (SMALL)			
C2	(SEMI) RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (SMALL)			
C3	SURFACE MOUNTED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (TALL)			
C4	(SEMI) RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (TALL)	BOBRICK B-3974		
C5	RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (TALL)			
WASTE RECEPTACLE				
D1	SURFACE MOUNTED WASTE RECEPTACLE: MIN 5.5 GALLON CAPACITY			
D2	SURFACE MOUNTED WASTE RECEPTACLE: MIN 20 GALLON CAPACITY	BOBRICK B-275		
D3	SEMI-RECESSED WASTE RECEPTACLE: MIN 12 GALLON CAPACITY			
D4	WASTE BASKET, PORTABLE			
SOAP DISPENSERS				
E1	SURFACE MOUNTED LIQUID SOAP DISPENSER	BOBRICK B-2111		
E2	RECESSED LIQUID SOAP DISPENSER			
E3	LAVATORY MOUNTED LIQUID SOAP DISPENSER			
E4	SURFACE MOUNTED POWDERED SOAP DISPENSER			
E5	SURFACE MOUNTED LIQUID SOAP DISPENSER: PLASTIC CONTAINER			
MIRRORS				
F1	FRAMED MIRROR (ABOVE LAVATORY)	BOBRICK B-290 2448		
F2	FRAMED MIRROR W/ SHELF (SIZE VARIES, COMPLY WITH F1 AND P5)			
F3	FIXED TILT FRAMED MIRROR (SIZE VARIES, COMPLY WITH F1 AND P5)			
F4	FIXED TILT FRAMED MIRROR W/ SHELF (SIZE VARIES, COMPLY WITH F1 AND P5)	BOBRICK B-290 2460		
F5	FRAMED FULL LENGTH MIRROR			
SANITARY SUPPLY DISPENSERS				
G1	RECESSED SANITARY NAPKIN / TAMPON DISPENSER COMBINATION VENDOR			
G2	SEMI-RECESSED SANITARY NAPKIN / TAMPON DISPENSER COMBINATION VENDOR	BOBRICK B-3706 25		
G3	SURFACE MOUNTED SANITARY NAPKIN / TAMPON DISPENSER COMBINATION VENDOR			
TOILET TISSUE DISPENSERS				
H1	TOILET PARTITION MOUNTED TOILET TISSUE DISPENSER, DUAL-ROLL FOR TWO COMPARTMENTS			
H2	RECESSED TOILET TISSUE DISPENSER, DUAL-ROLL			
H3	SURFACE MOUNTED TOILET TISSUE DISPENSER, DUAL-ROLL (NOT SUITABLE FOR ACCESSIBLE TOILET STALL)			
H4	SURFACE MOUNTED TOILET TISSUE DISPENSER, MULTI ROLL	BOBRICK B-2888		
H5	RECESSED TOILET TISSUE DISPENSER, SINGLE-ROLL			
H6	SURFACE MOUNT DUAL JUMBO ROLL TOILET TISSUE DISPENSER	BOBRICK B-2892		
SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER				
J1	TOILET PARTITION MOUNTED COMBINATION FEMININE NAPKIN DISPOSAL & TOILET TISSUE DISPENSER			
J2	RECESSED COMBINATION FEMININE NAPKIN DISPOSAL & TOILET TISSUE DISPENSER			
J3	SURFACE MOUNTED COMBINATION FEMININE NAPKIN DISPOSAL & TOILET TISSUE DISPENSER (NOT SUITABLE FOR ACCESSIBLE TOILET STALL)			
SANITARY NAPKIN DISPOSAL				
K1	TOILET PARTITION MOUNTED FEMININE NAPKIN DISPOSAL	BOBRICK B-270		
K2	RECESSED FEMININE NAPKIN DISPOSAL			
K3	SURFACE MOUNTED FEMININE NAPKIN DISPOSAL			
GRAB BARS				
L1	STAINLESS STEEL GRAB BAR 18"	BOBRICK B-6806X18		
L2	STAINLESS STEEL GRAB BAR 24"	BOBRICK B-6806X24		
L3	STAINLESS STEEL GRAB BAR 36"	BOBRICK B-6806X36		
L4	STAINLESS STEEL GRAB BAR 42"	BOBRICK B-6806X42		
L5	STAINLESS STEEL GRAB BAR - TWO-WALL 36"x18" AT SHOWER	BOBRICK B-6861		
SHOWER ACCESSORIES				
M1	FOLDING SHOWER SEAT	BOBRICK B-5181		
M2	FOLDING SHOWER BENCH			
M3	SHOWER CURTAIN ROD (LENGTH AS SHOWN ON DWGS)	BOBRICK B-207		
M4	STAINLESS STEEL SHOWER CURTAIN HOOK	BOBRICK B-204-1		
M5	VINYL SHOWER CURTAIN	BOBRICK B-204-2		
M6	SURFACE MOUNTED SOAP DISH: STAINLESS STEEL			
M7	RECESSED SOAP DISH: STAINLESS STEEL			
TOWEL BARS AND HOOKS				
N1	TOWEL BAR: SQUARE TUBE (LENGTH AS SHOWN ON DWGS)			
N2	TOWEL BAR: 1" DIA ROUND (LENGTH AS SHOWN ON DWGS)			
N3	TOWEL PIN			
N4	CLOTHES HOOK			
N5	HAT AND COAT HOOK WITH DOOR STOP			
N6	HOOK STRIP (3 HOOKS)			
N7	DOUBLE ROBE HOOK	BOBRICK B-8727		
JANITORIAL AND SHELVES				
P1	MOP & BROOM HOLDER	BOBRICK B-223X36		
P2	UTILITY SHELF	BOBRICK B-298X24		
P3	UTILITY SHELF WITH MOP/BROOM HOLDERS	BOBRICK B-224X36		
P4	CORNER SPLASH GUARD			
P5	TOILET/LOCKER ROOM SHELF	BOBRICK B-298X24		
MISCELLANEOUS				
Q1	SURFACE MOUNTED PAPER CLIP DISPENSER			
Q2	FOLDING UTILITY SHELF - TOILET COMPARTMENT			
Q3	STAINLESS STEEL SHELF			
Q4	SURFACE MOUNTED ASH RECEPTACLE			
Q5	BABY CHANGING STATION			
Q6	SURFACE MOUNTED TOILET SEAT COVER DISPENSER	BOBRICK B-221		
Q7	RECESSED MEDICINE CABINET			



CONSULTANTS:

Issued For CONSTRUCTION
05/03/2022
www.ssoe.com



PROJECT INFORMATION:
BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

NO.	DATE	SUBJECT
1	04-28-22	ISSUED FOR CONSTRUCTION
		REVISION OR ISSUE

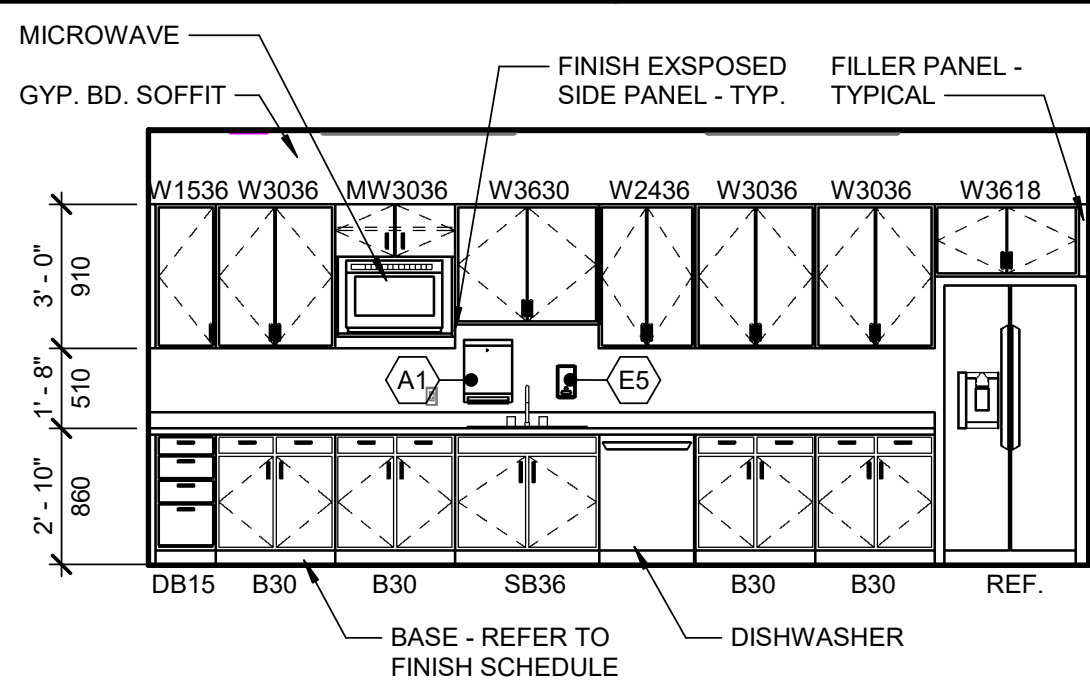
SSOE, Inc.
1001 Madison Avenue
Toledo, OH 43604
T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: S. HUFF

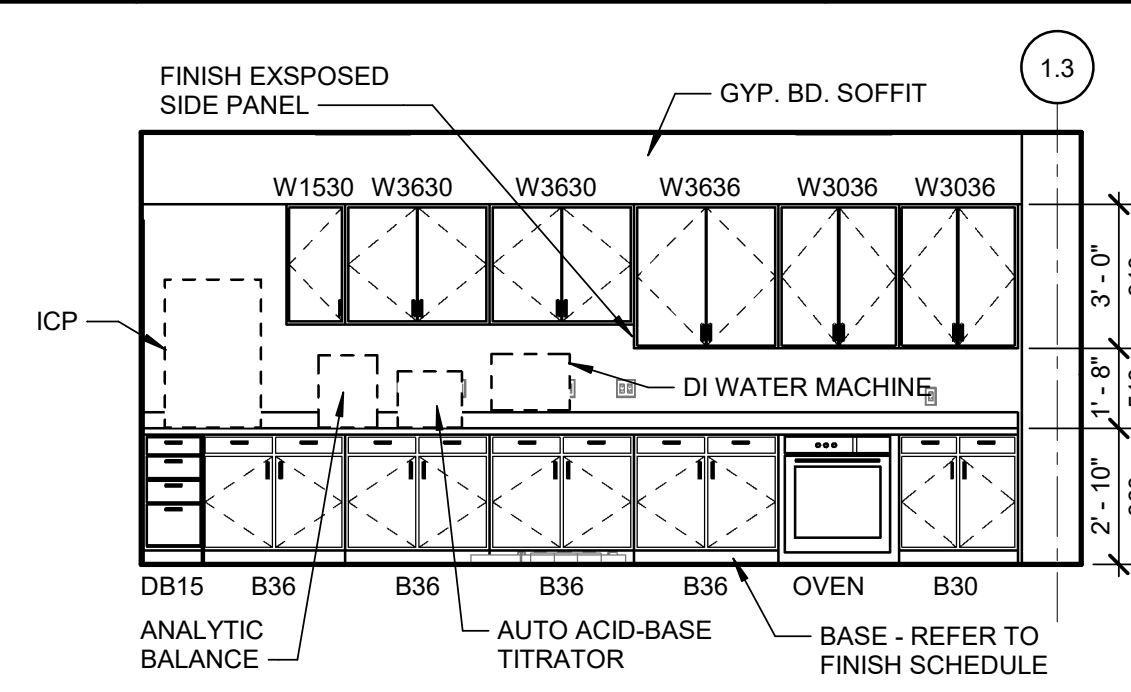
DRAWING TITLE:
TYPICAL MOUNTING HEIGHTS

DRAWING NO:
AE-003

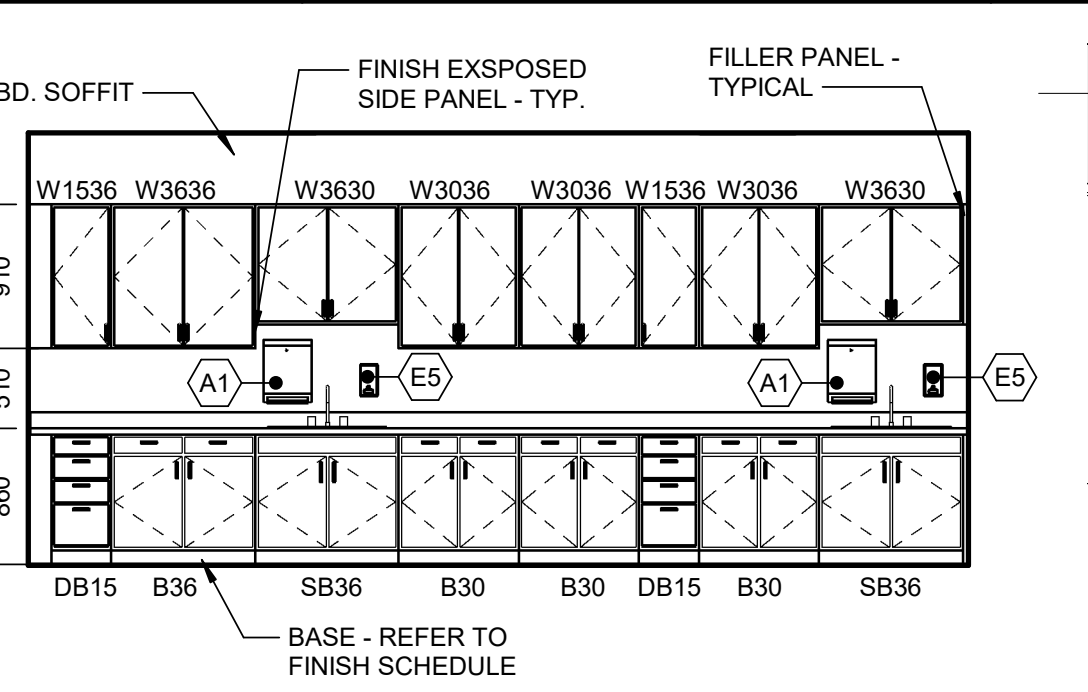
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 DATE: 4/28/2022 9:38:17 AM



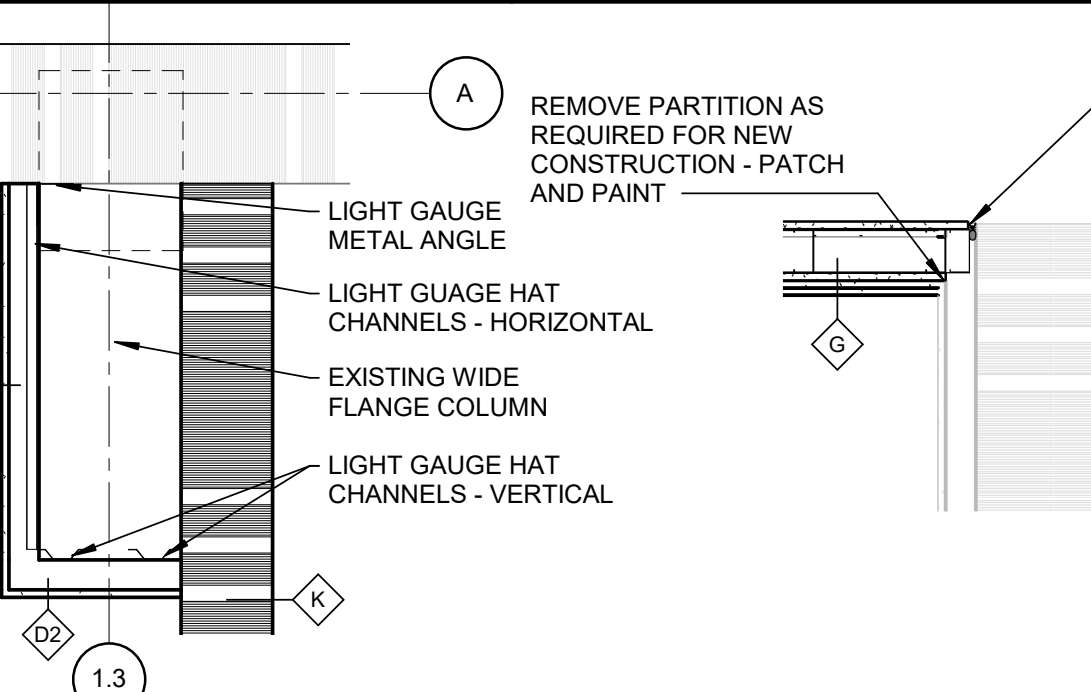
G1 BREAK ROOM CASEWORK
 AD-110-1 SCALE: 1/4" = 1'-0"



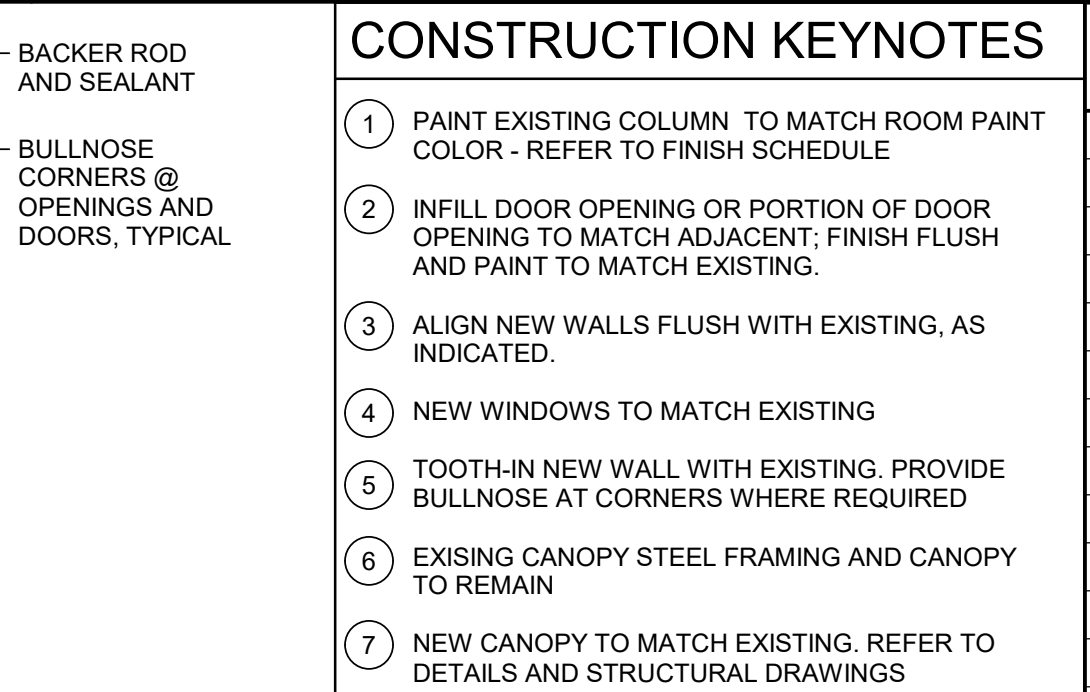
G3 LAB 115 NORTH
 AD-110-1 SCALE: 1/4" = 1'-0"



G4 LAB 115 SOUTH
 AD-110-1 SCALE: 1/4" = 1'-0"



F5 COLUMN WRAP
 AE-111-1 SCALE: 3/4" = 1'-0"

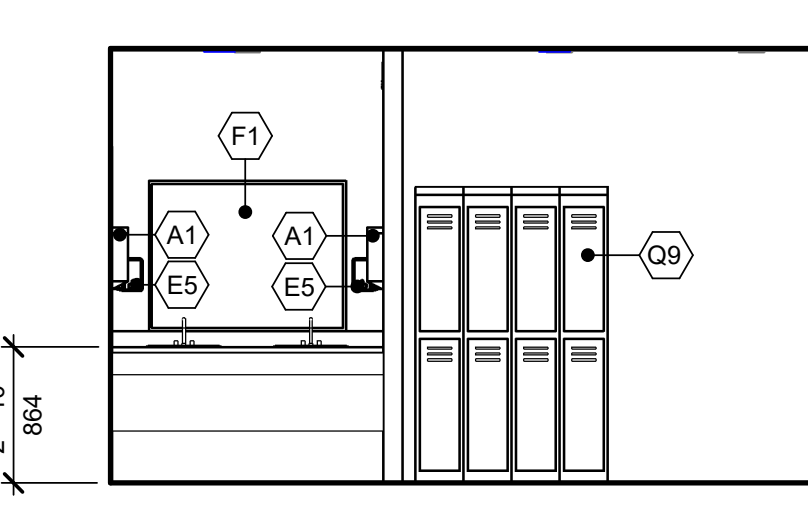


F7 ENLARGED DETAIL
 AE-111-1 SCALE: 3/4" = 1'-0"

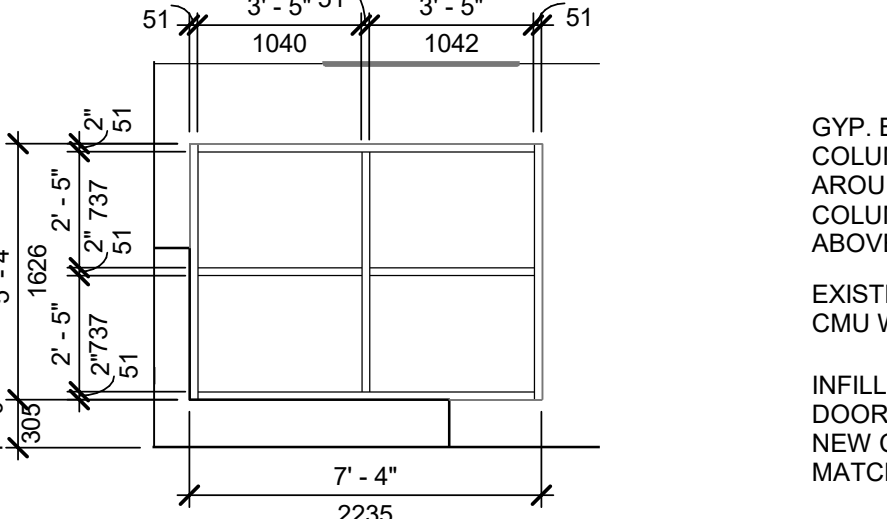
TOILET ACCESSORY LEGEND		
SYMBOL	DESCRIPTION	COMMENTS
(A)	PAPER TOWEL DISPENSER	
(B)	SOAP DISPENSER	
(C)	FRAMED MIRROR	
(D)	TOILET TISSUE DISPENSER	
(E)	SANITARY NAPKIN DISPOSAL	
(F)	18" VERTICAL GRAB BAR	
(G)	36" GRAB BARS	
(H)	42" GRAB BARS	
(I)	TWO WALL GRAB BAR 30"x48"	
(J)	FOLDING SHOWER SEAT	
(K)	SHOWER ROD AND CURTAIN	
(L)	COAT HOOK	
(M)	MOP HOLDER AND SHELF	
(N)	TOILET PARTITION	
(O)	HI / LO ELECTRIC WATER COOLER	RE: PLUMBING DRAWINGS
(P)	DOUBLE TIER LOCKERS ON LEGS	

TOILET ROOM NOTES

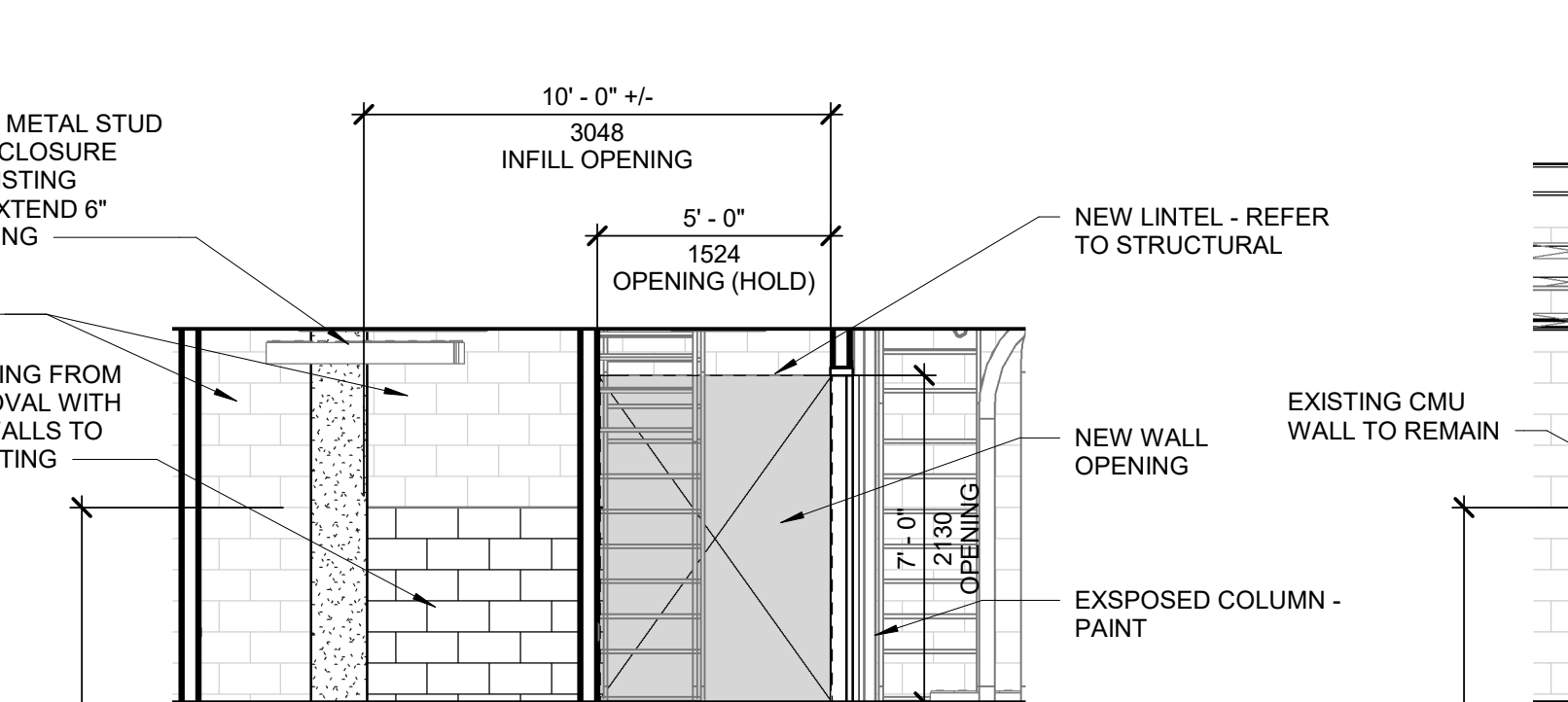
- REFER TO SHEET A004 FOR TYPICAL MOUNTING HEIGHTS
- PROVIDE 3/4" FIRE-RETARDANT TREATED PLYWOOD BLOCKING BEHIND SURFACE MOUNTED ACCESSORIES - TYP.
- PROVIDE ADEQUATE BLOCKING FOR ANCHORING ALL WALL HUNG ITEMS, FURNISHED BY GENERAL CONTRACTOR OWNER PROVIDED EQUIPMENT.
- PROVIDE UNDER-LAV PIPING PROTECTION: TRUEBRO - LAV GUARD 2, WHITE AT ALL EXPOSED PIPING - TYP.
- USE 5/8" MILDEW RESISTANT TYPE "X" GYPSUM BOARD AT ALL WALLS IN WET LOCATIONS (TOILET ROOMS) AND BEHIND ALL SINKS, LAVATORIES, WATER CLOSETS, ETC. STENCH FIRE AND SMOKE WALLS, BOTH SIDES, ABOVE CEILING, APPROXIMATE 5'-0" O.C.
- FIELD MEASURE DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.



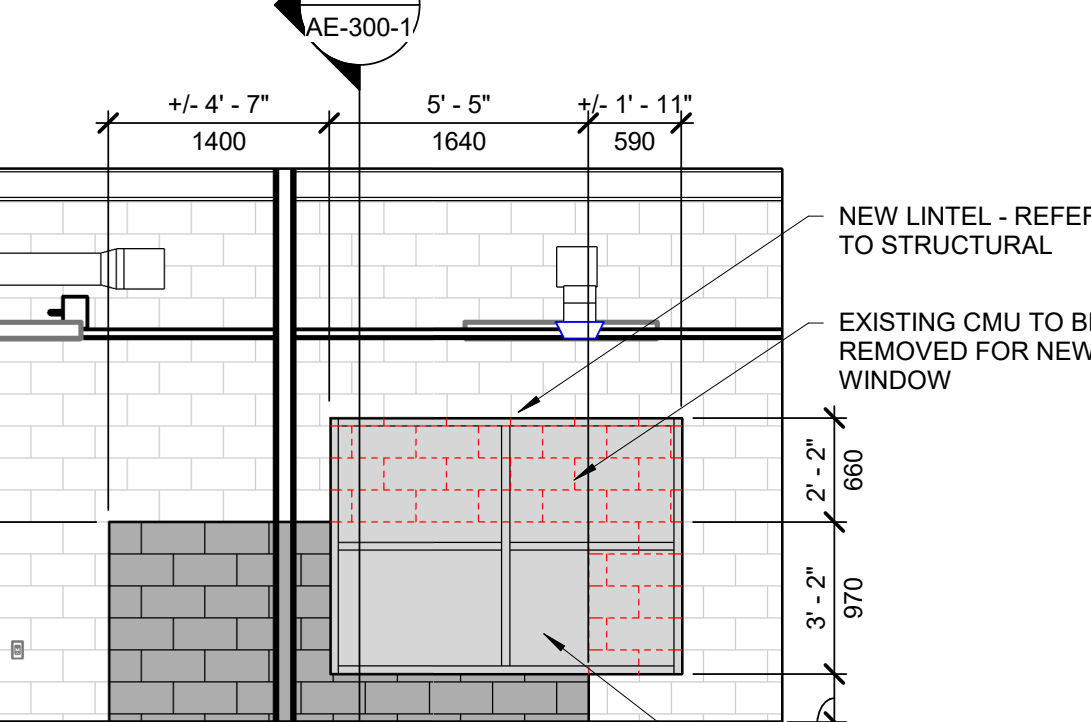
F1 MEN'S LOCKER NORTH
 AE-111-1 SCALE: 1/4" = 1'-0"



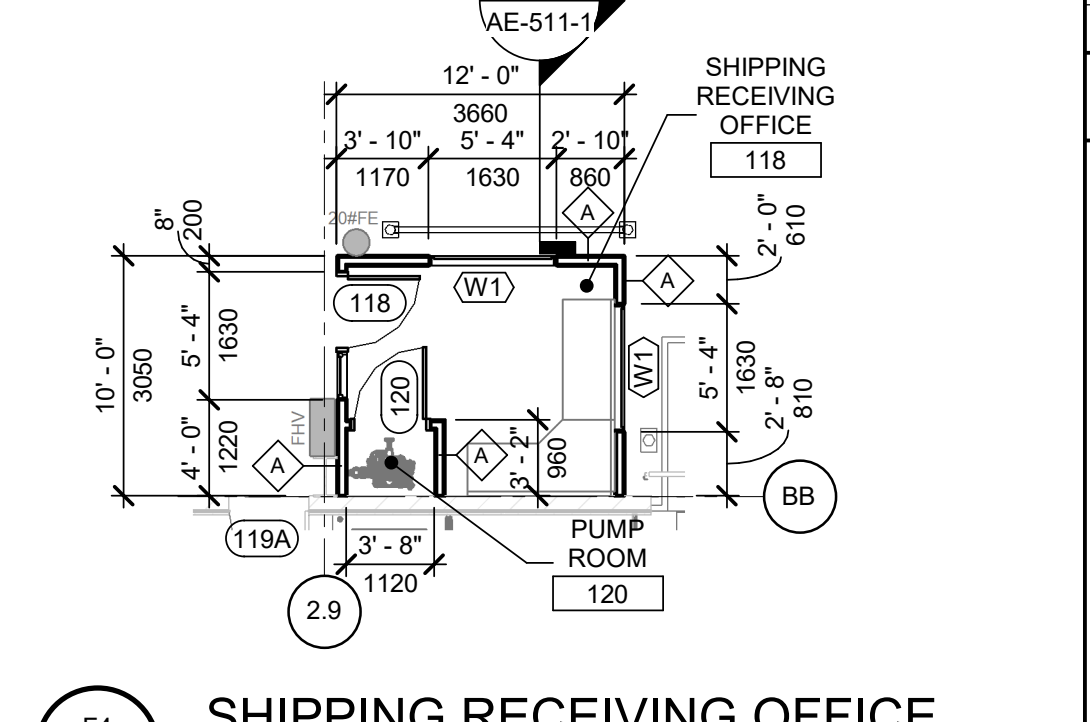
F2 CONFERENCE ROOM WINDOW
 AE-111-1 SCALE: 1/4" = 1'-0"



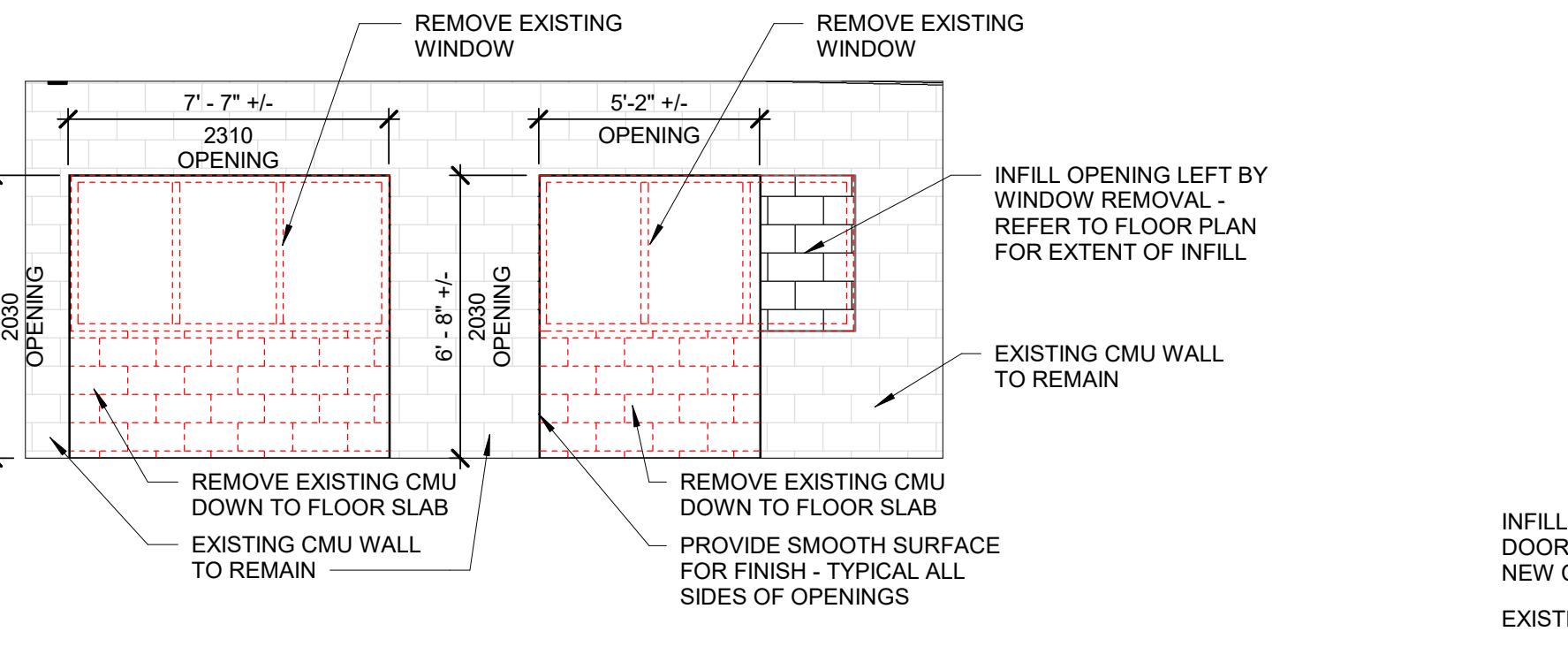
E4 WEST OPENING INFILL ELEVATION
 AE-111-1 SCALE: 1/4" = 1'-0"



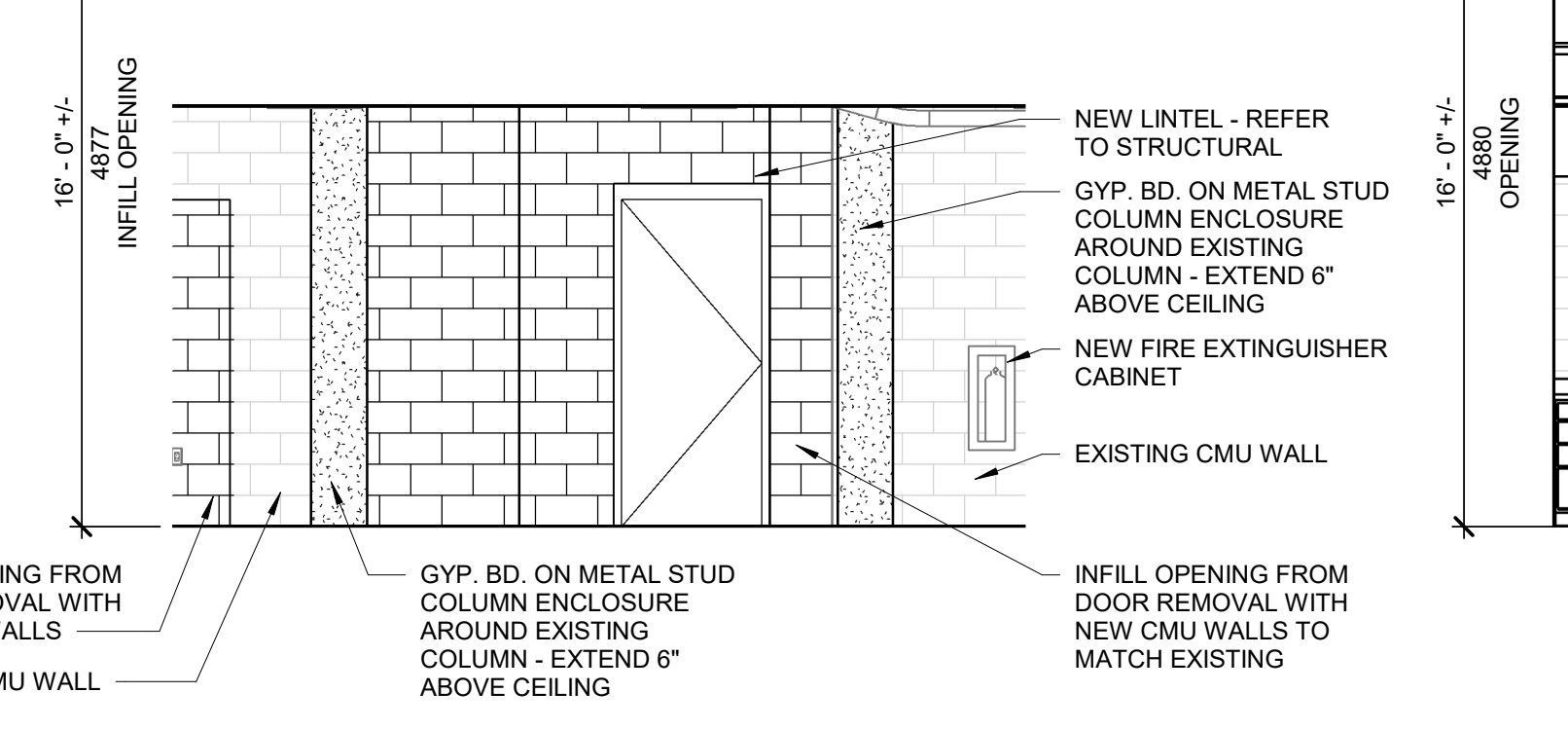
E6 NORTH OPENING INFILL ELEVATION
 AD-110-1 SCALE: 1/4" = 1'-0"



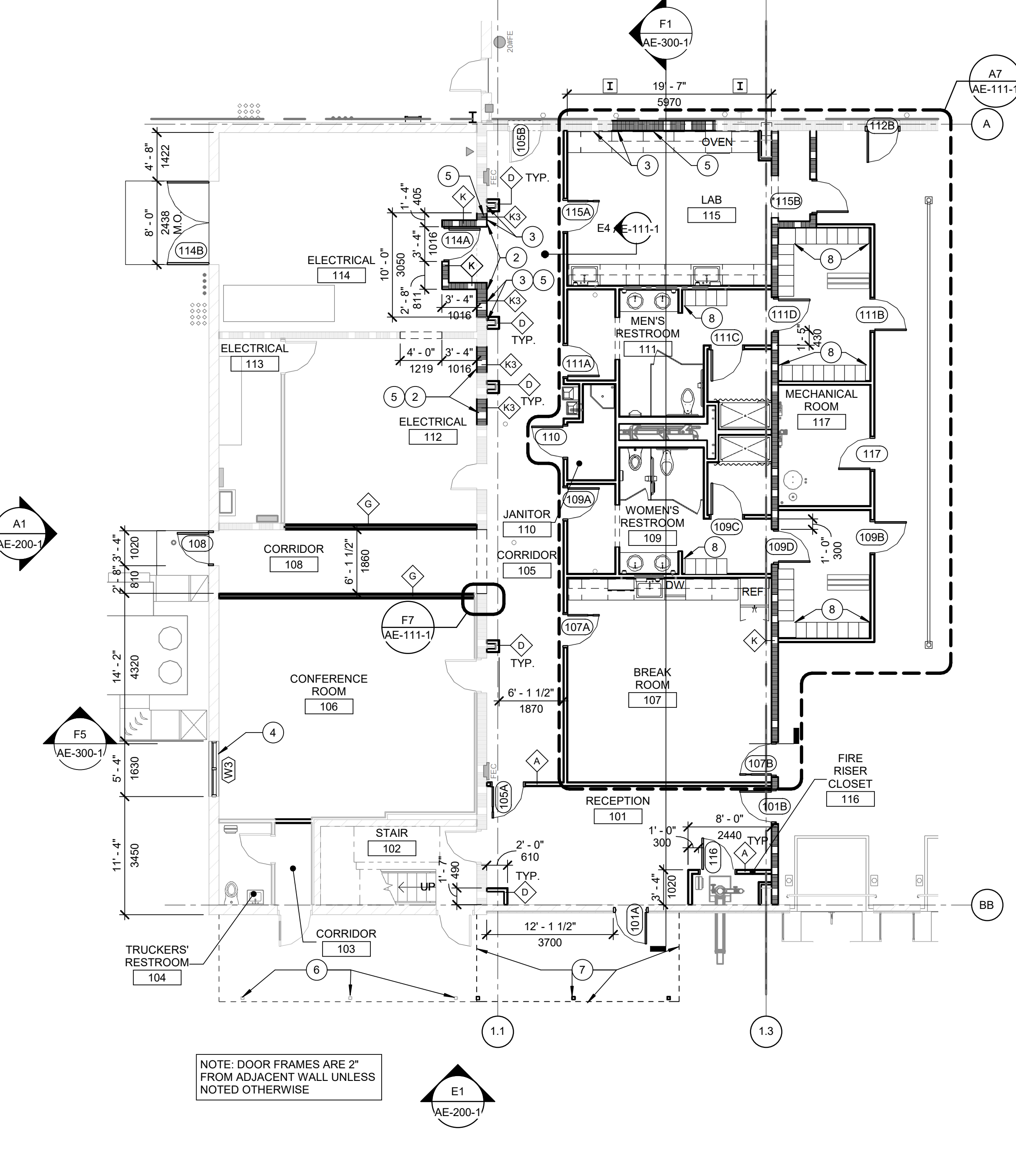
F4 SHIPPING RECEIVING OFFICE
 AE-110 SCALE: 1/8" = 1'-0"



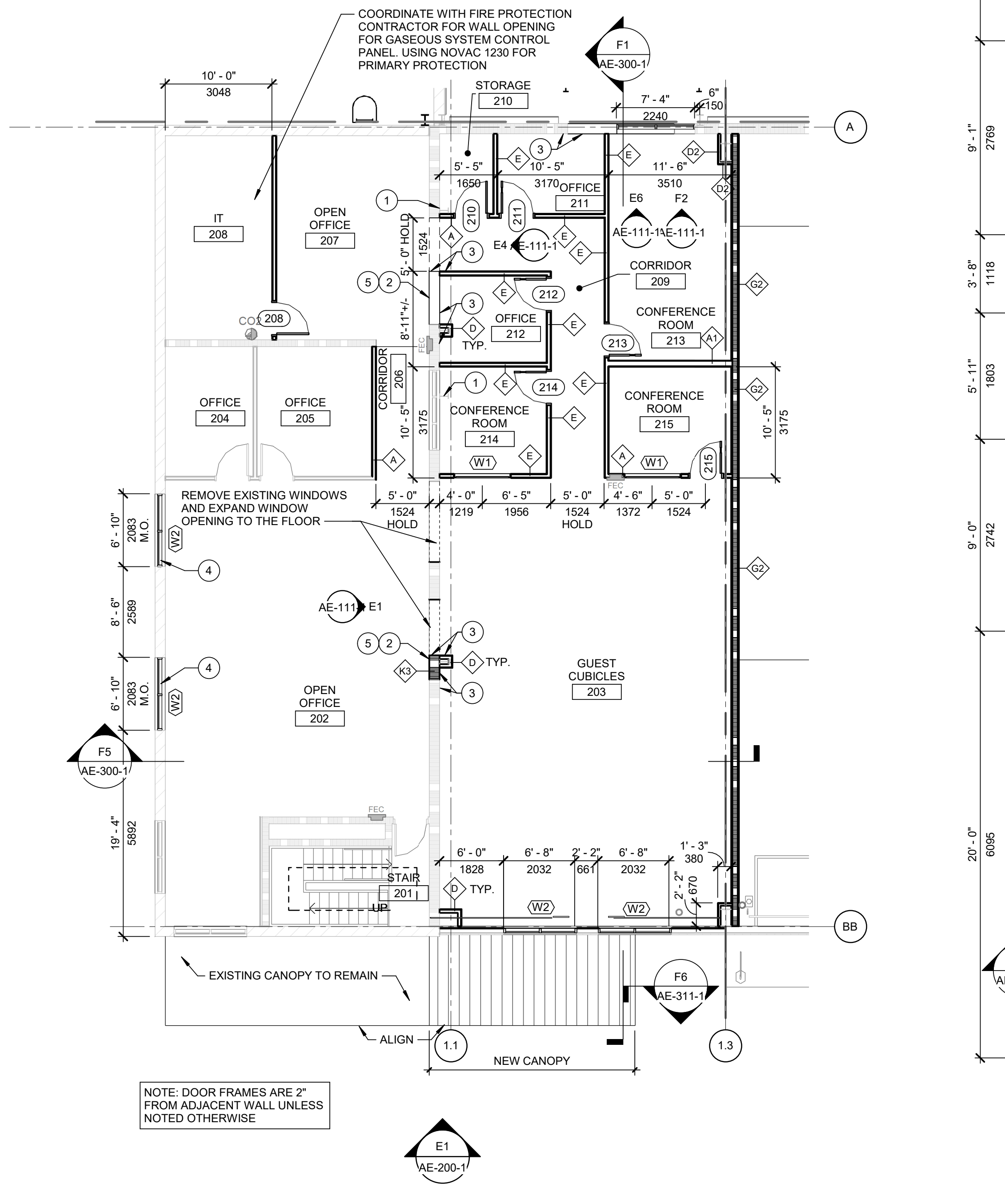
E1 WINDOW/WALL REMOVAL
 AE-111-1 SCALE: 1/4" = 1'-0"



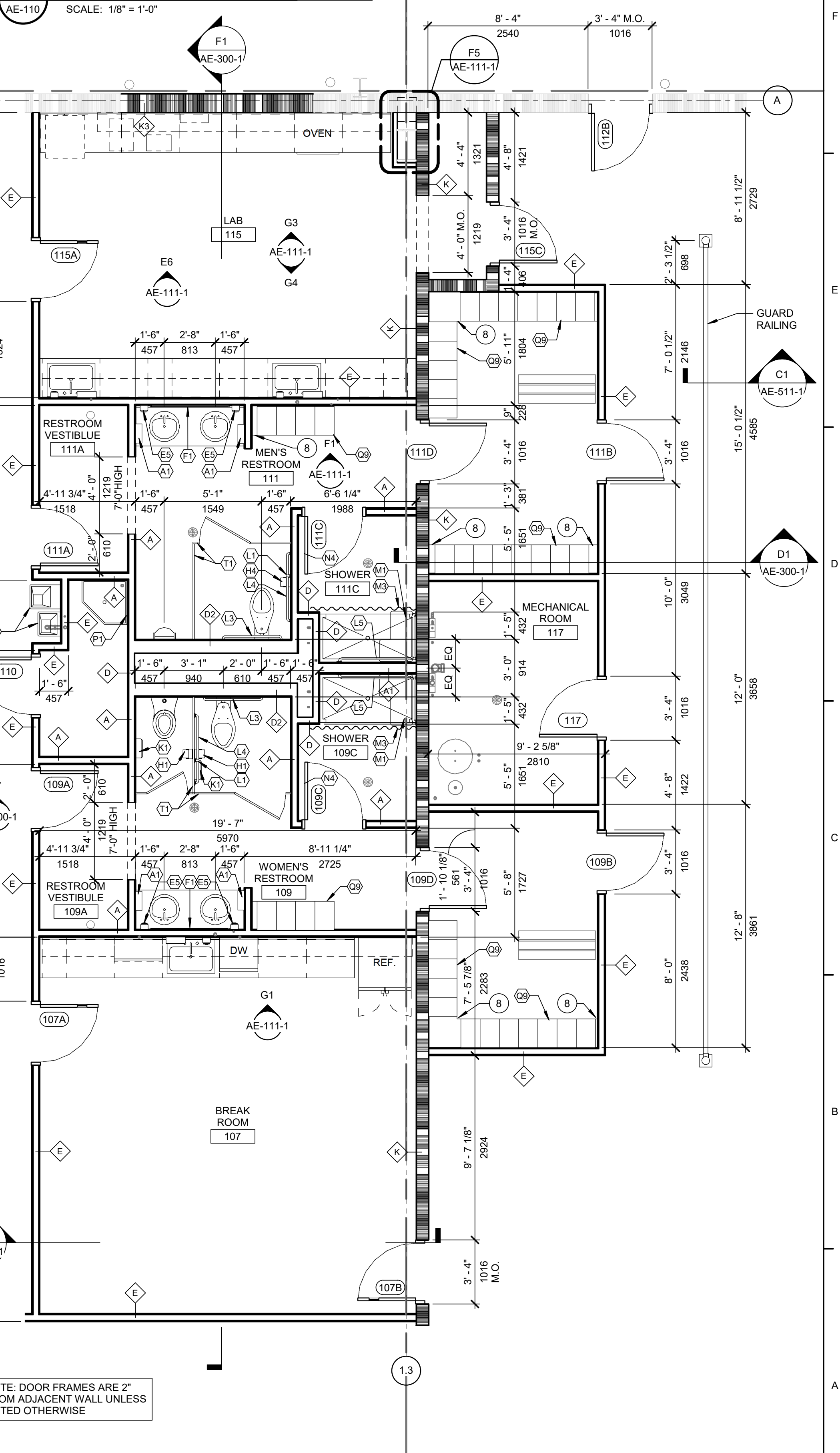
E3 INFILL OPENING FROM DOOR REMOVAL WITH NEW CMU WALLS TO MATCH EXISTING
 AE-111-1 SCALE: 1/4" = 1'-0"



A1 FIRST FLOOR OFFICE PLAN
 AE-110 SCALE: 1/8" = 1'-0"



A5 SECOND FLOOR OFFICE PLAN
 AE-110 SCALE: 1/8" = 1'-0"



A7 ENLARGED LAB, RESTROOMS AND BREAK ROOM
 AE-111-1 SCALE: 1/4" = 1'-0"

SSOE

CONSULTANTS:

Issued For CONSTRUCTION
 05/03/2022
 www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:

KIRK J. MARCHISEN
 REGISTERED ARCHITECT

PROJECT INFORMATION:
BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:
ASCEND ELEMENTS
 9172 INDUSTRIAL DR NE
 COVINGTON, GA 30014

CLIENT PROJECT NO: XXX-XXXX-XX

NO.	DATE	SUBJECT
3	04-28-22	ISSUED FOR CONSTRUCTION
2	04-12-22	IFR
1	03-16-22	IFR

NO. | DATE | SUBJECT | REVISION OR ISSUE

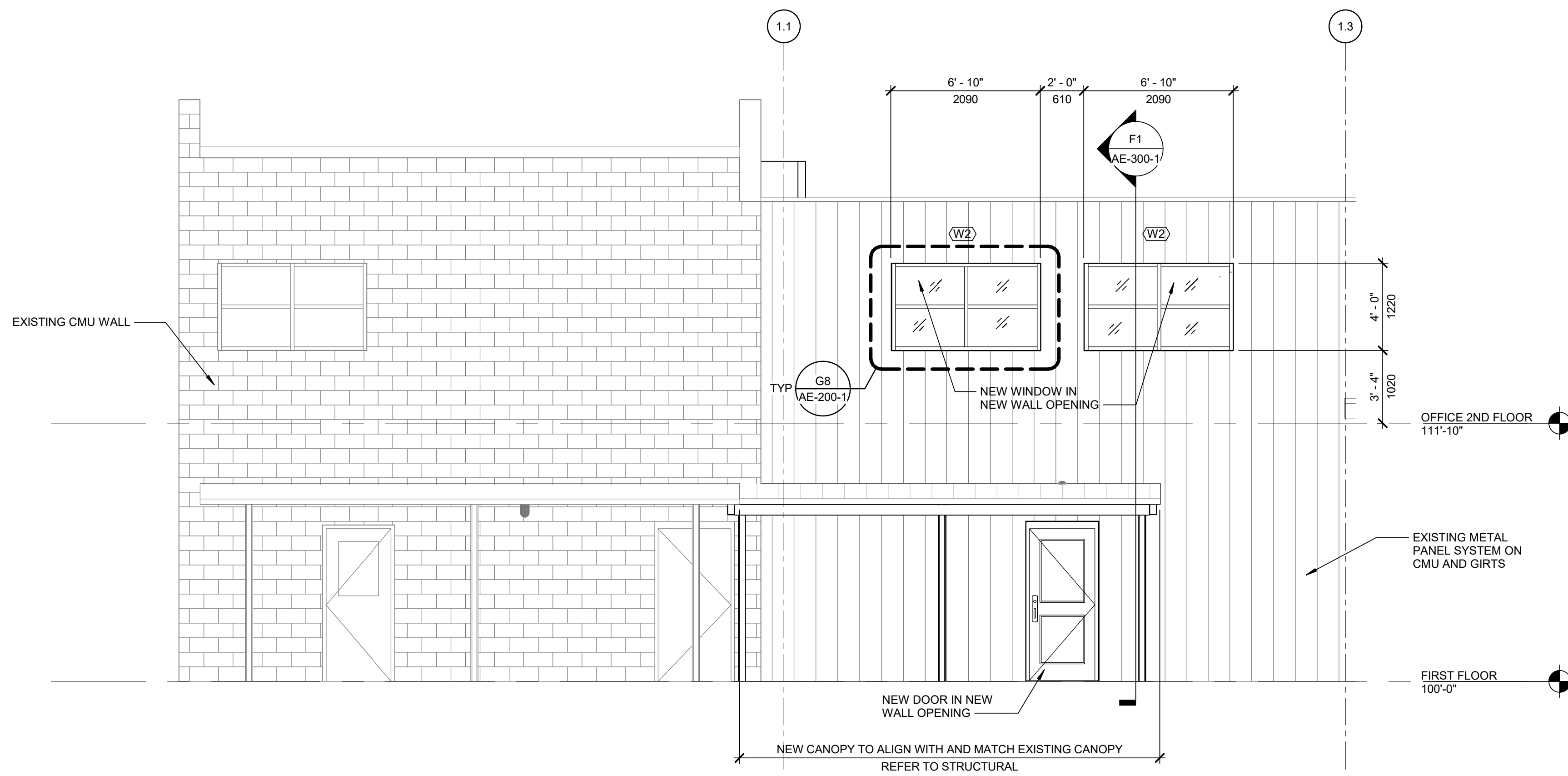
SSOE, Inc.
 1001 Madison Avenue
 Atlanta, GA 30304
 T. (419) 255-3830

PROJECT NO: 021-01975-00
 PROJECT MANAGER: R. FOX
 DESIGNED: J. HAINES
 CHECKED: S. HUFF

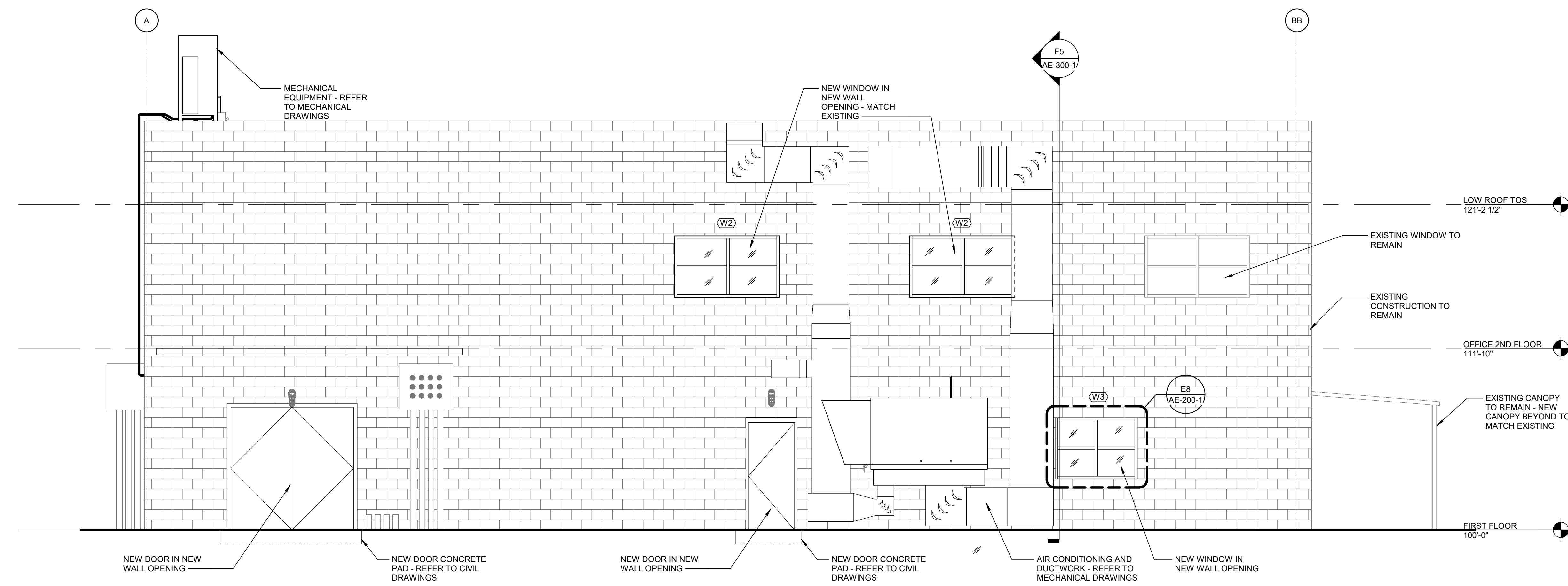
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OFFICE FLOOR PLANS

DRAWING NO:
AE-111-1

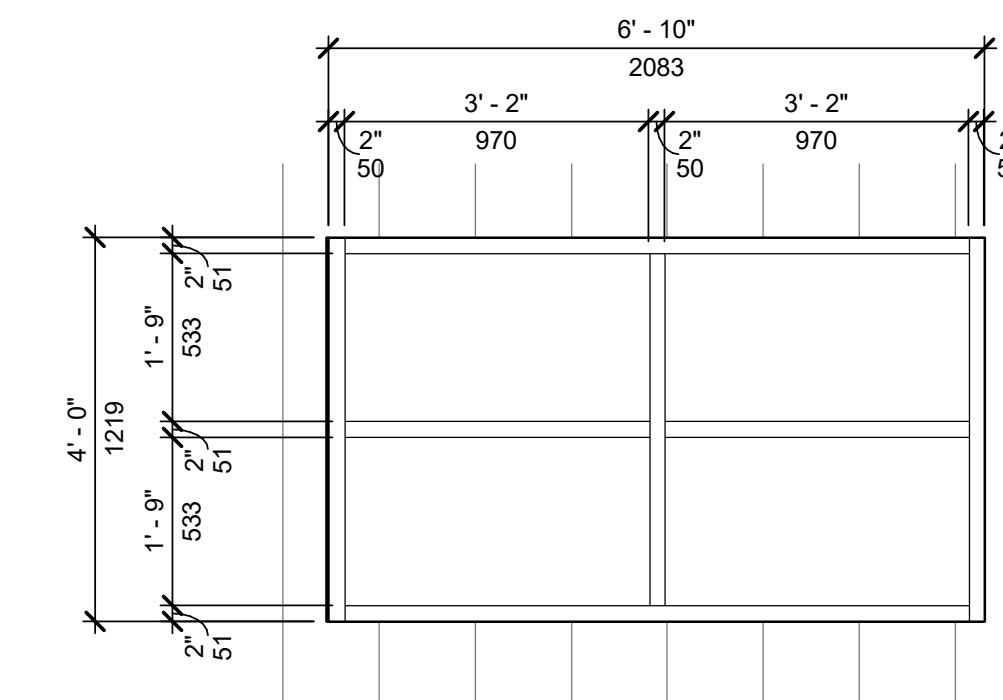
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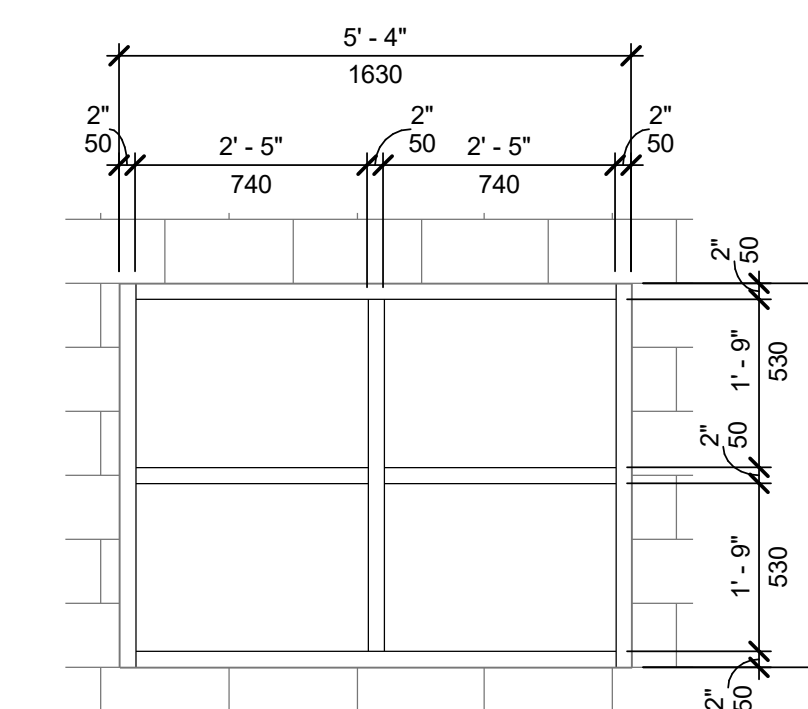
E1 OFFICE - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



A1 OFFICE - WEST ELEVATION
SCALE: 1/4" = 1'-0"



G8 WINDOW TYPE 2 (TYP. OF 4)
SCALE: 1/2" = 1'-0"



E8 WINDOW TYPE 3 (TYP. OF 1)
SCALE: 1/2" = 1'-0"



3	04-28-22	ISSUED FOR CONSTRUCTION
2	04-12-22	IFR
1	03-16-22	IFR

NO. | DATE | SUBJECT
REVISION OR ISSUE

SSOE, Inc.
1001 Madison Avenue
Atlanta, GA 30304
T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: S. HUFF

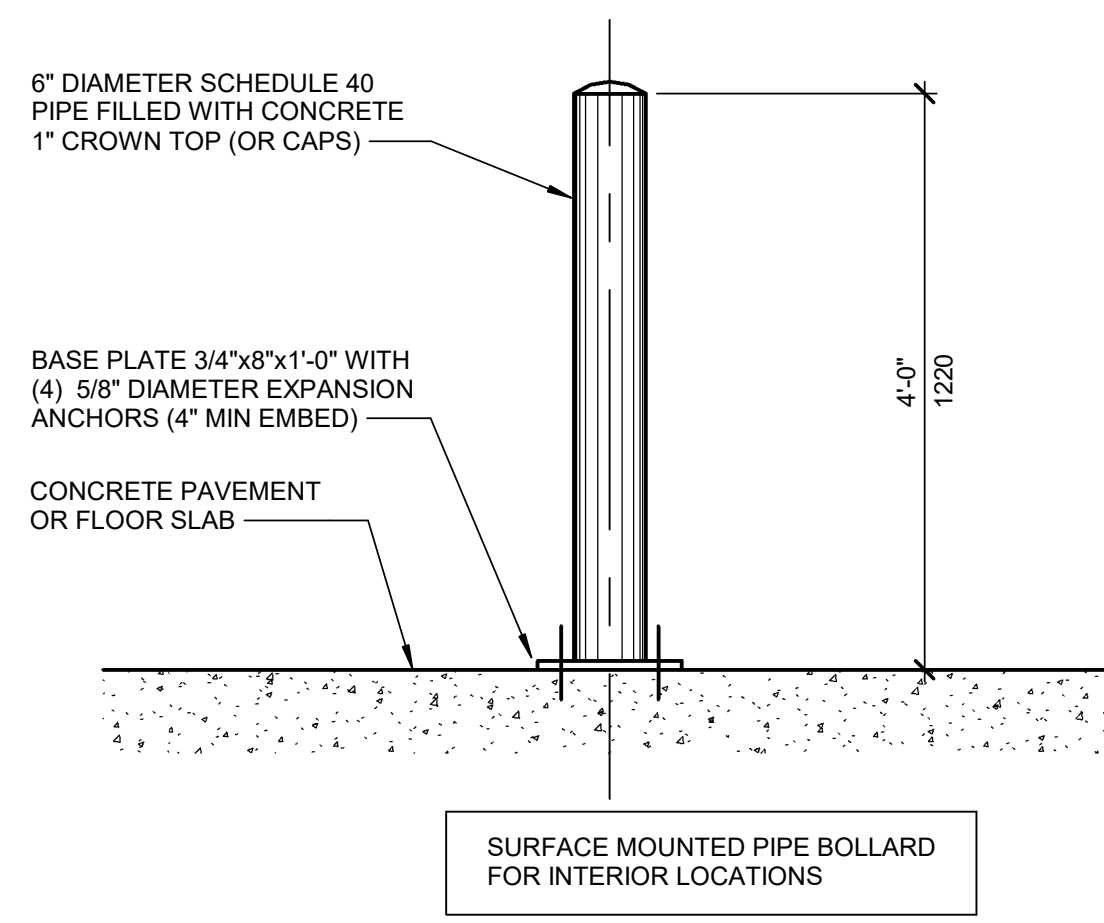
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**EXTERIOR ELEVATIONS
- OFFICE**

DRAWING NO:
AE-200-1

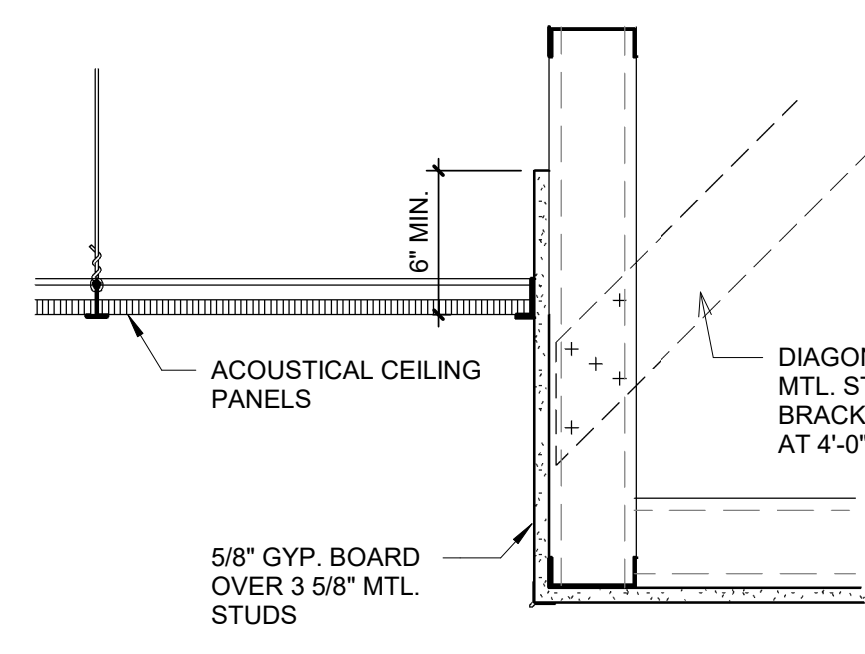


BROWNFIELD MODIFICATIONS

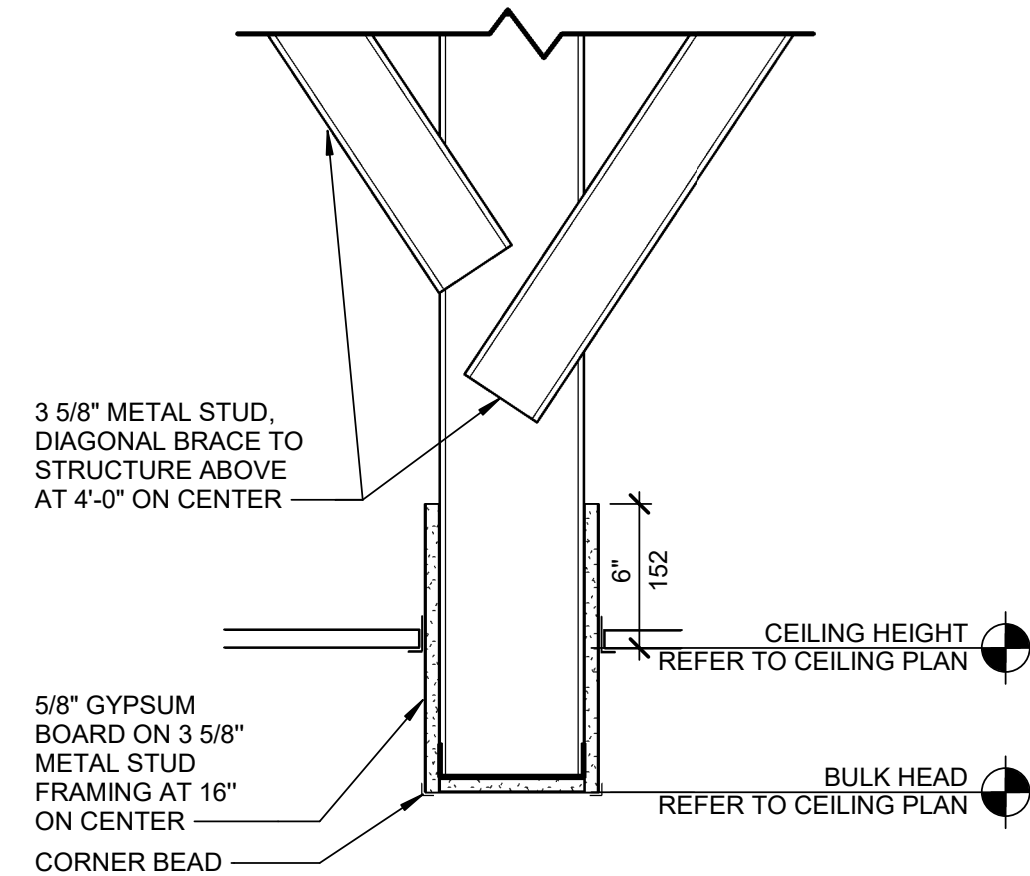
ASCEND ELEMENTS
ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014



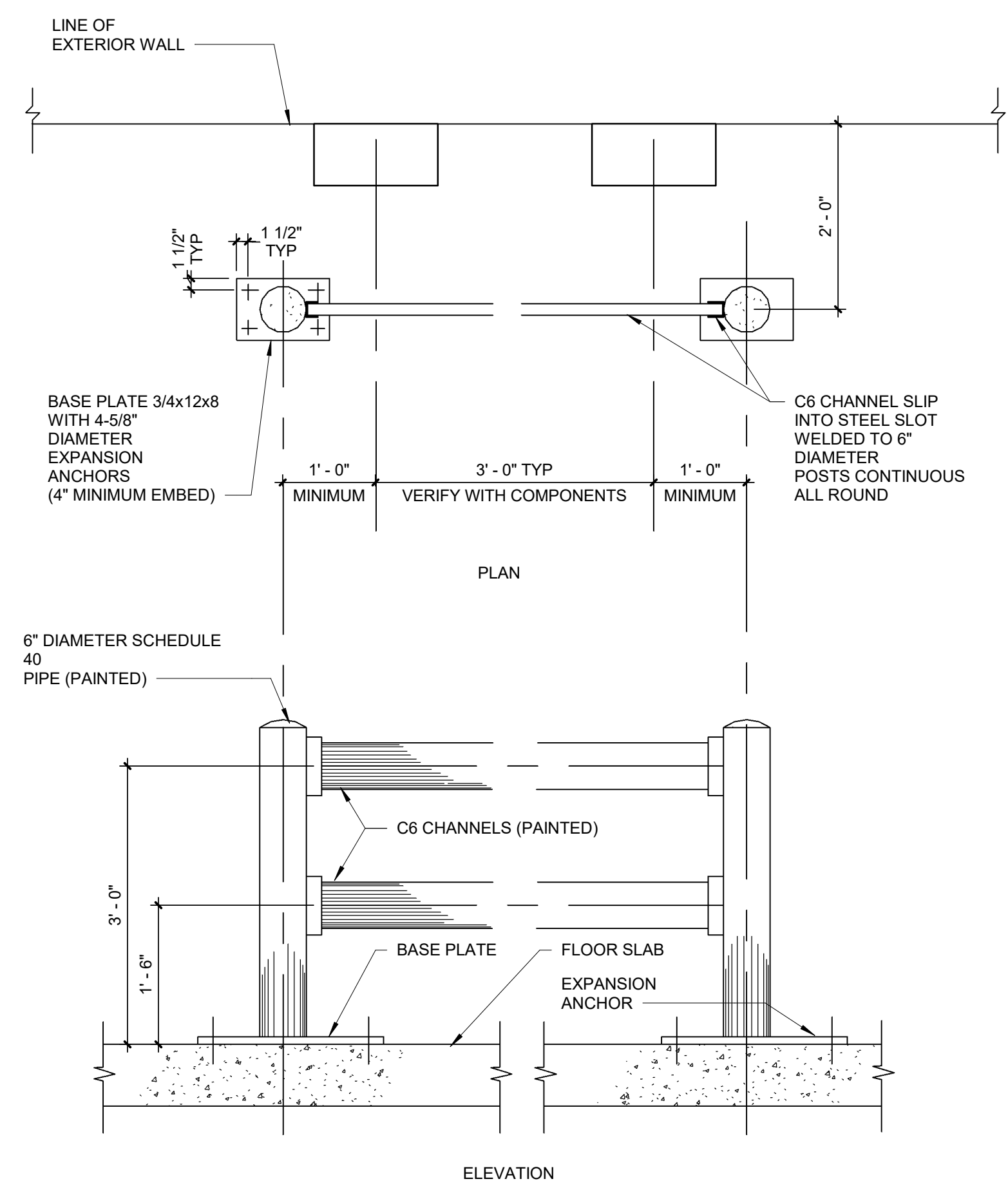
G1 PIPE BOLLARD DETAIL (PB1)
TYP. SCALE: 3/4" = 1'-0"



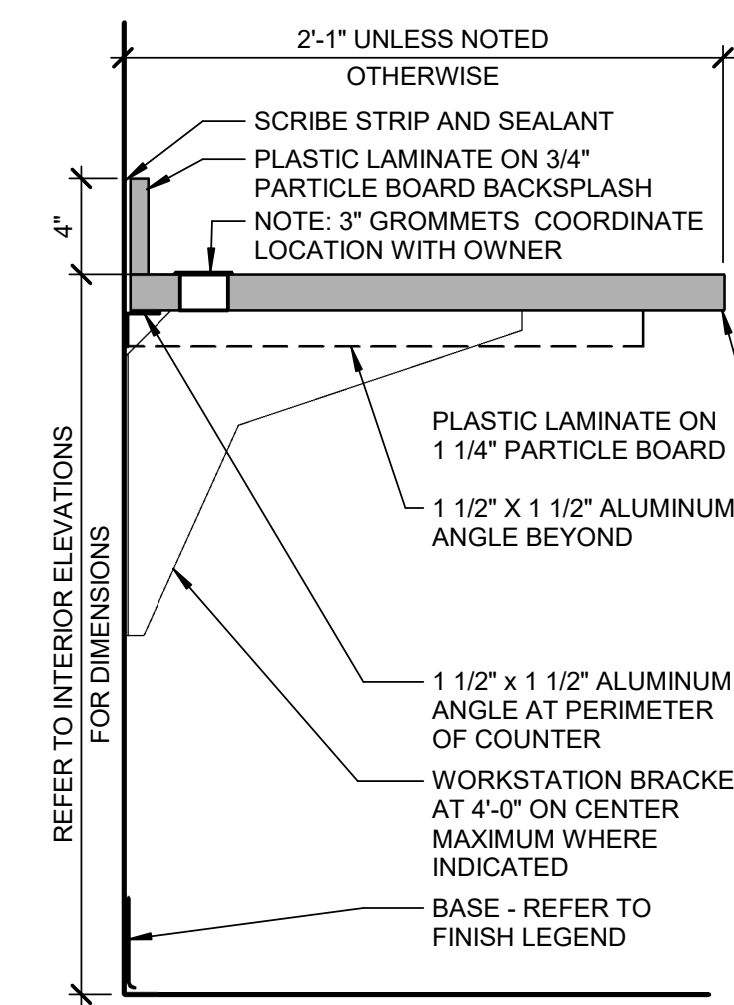
G3 CEILING TRANSITION - GYPSUM BOARD
TYP. SCALE: 1 1/2" = 1'-0"



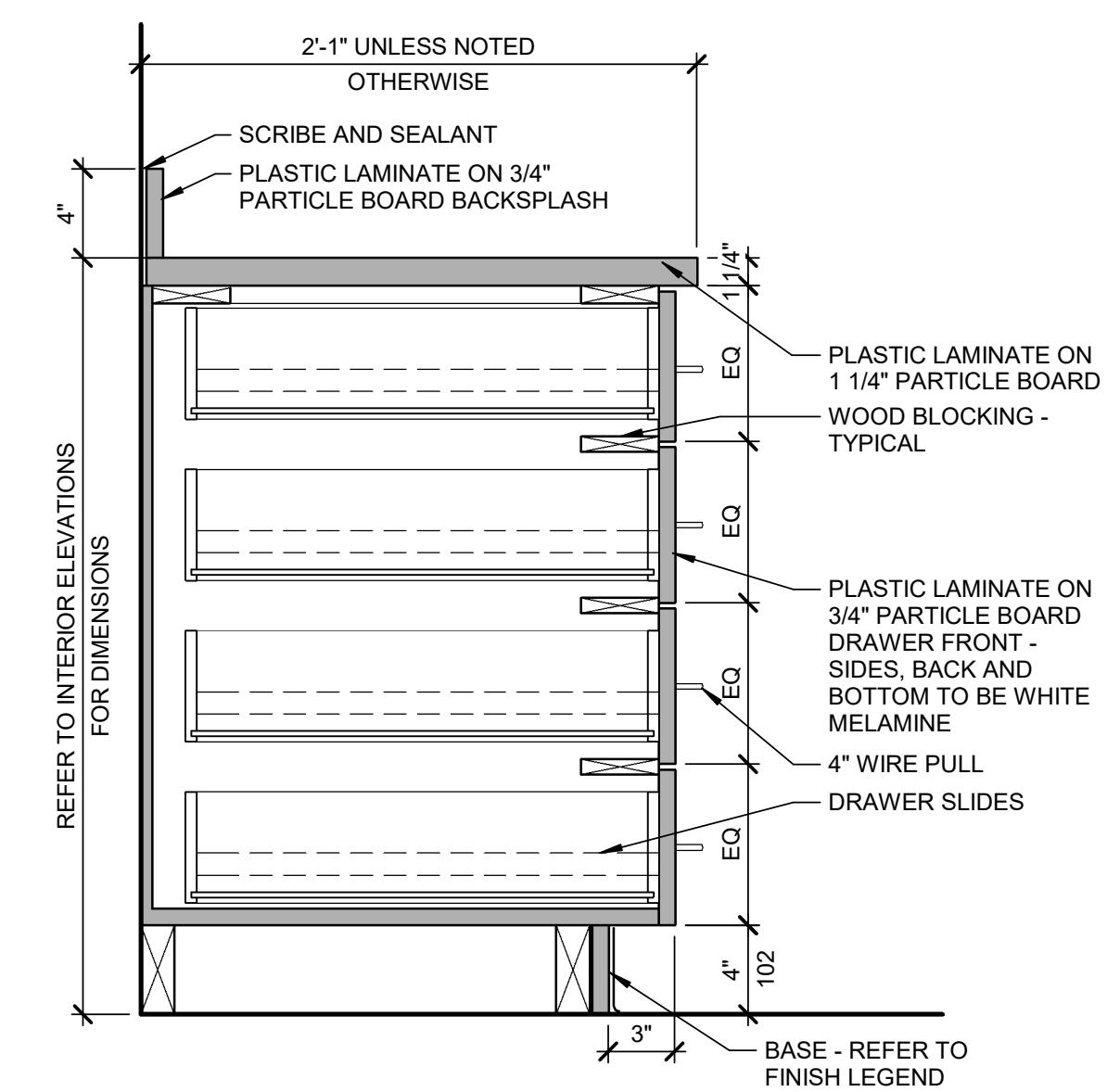
G5 BULKHEAD DETAIL
TYP. SCALE: 1 1/2" = 1'-0"



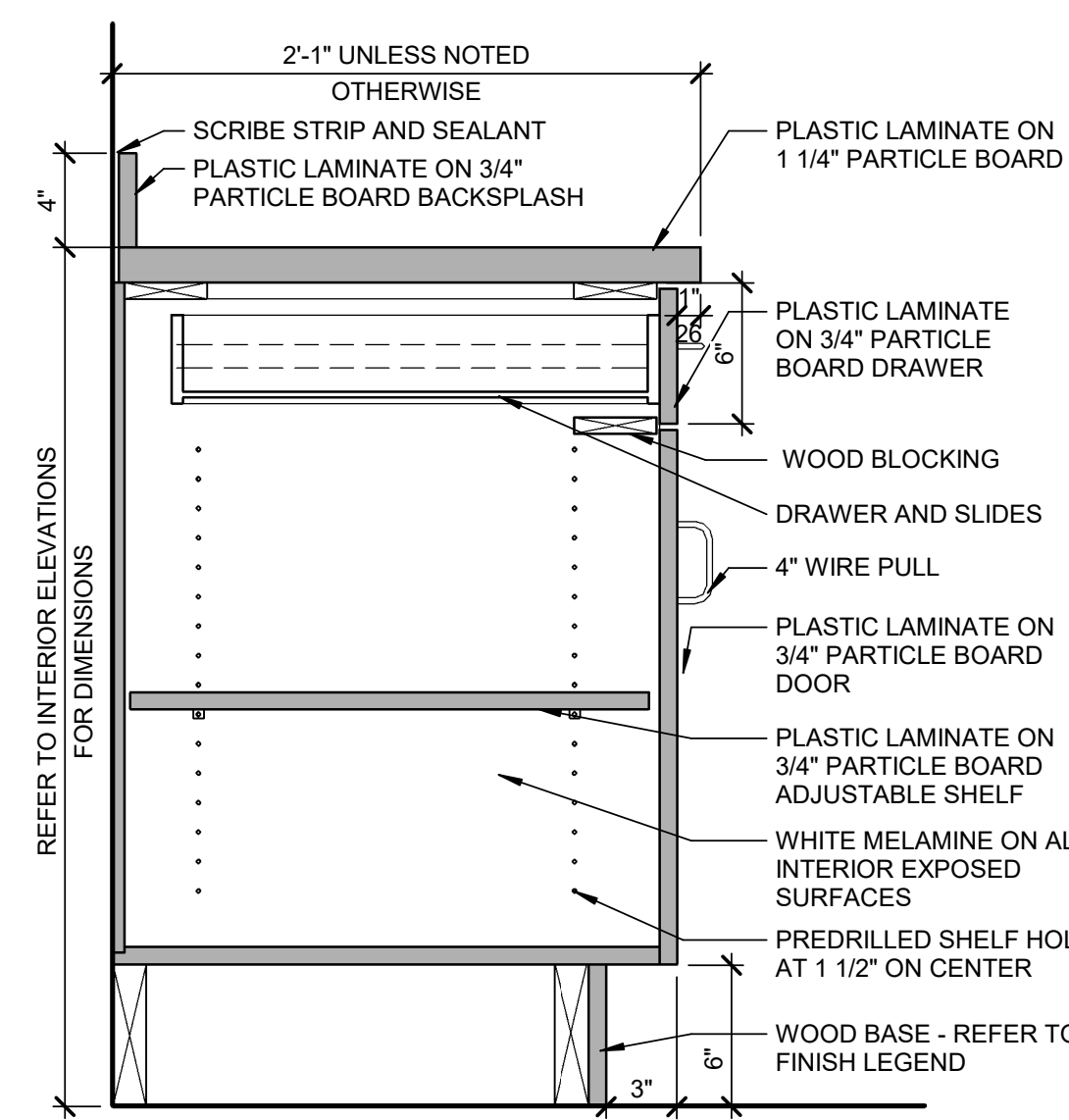
C1 MCC GUARD POST DETAIL
TYP. SCALE: 3/4" = 1'-0"



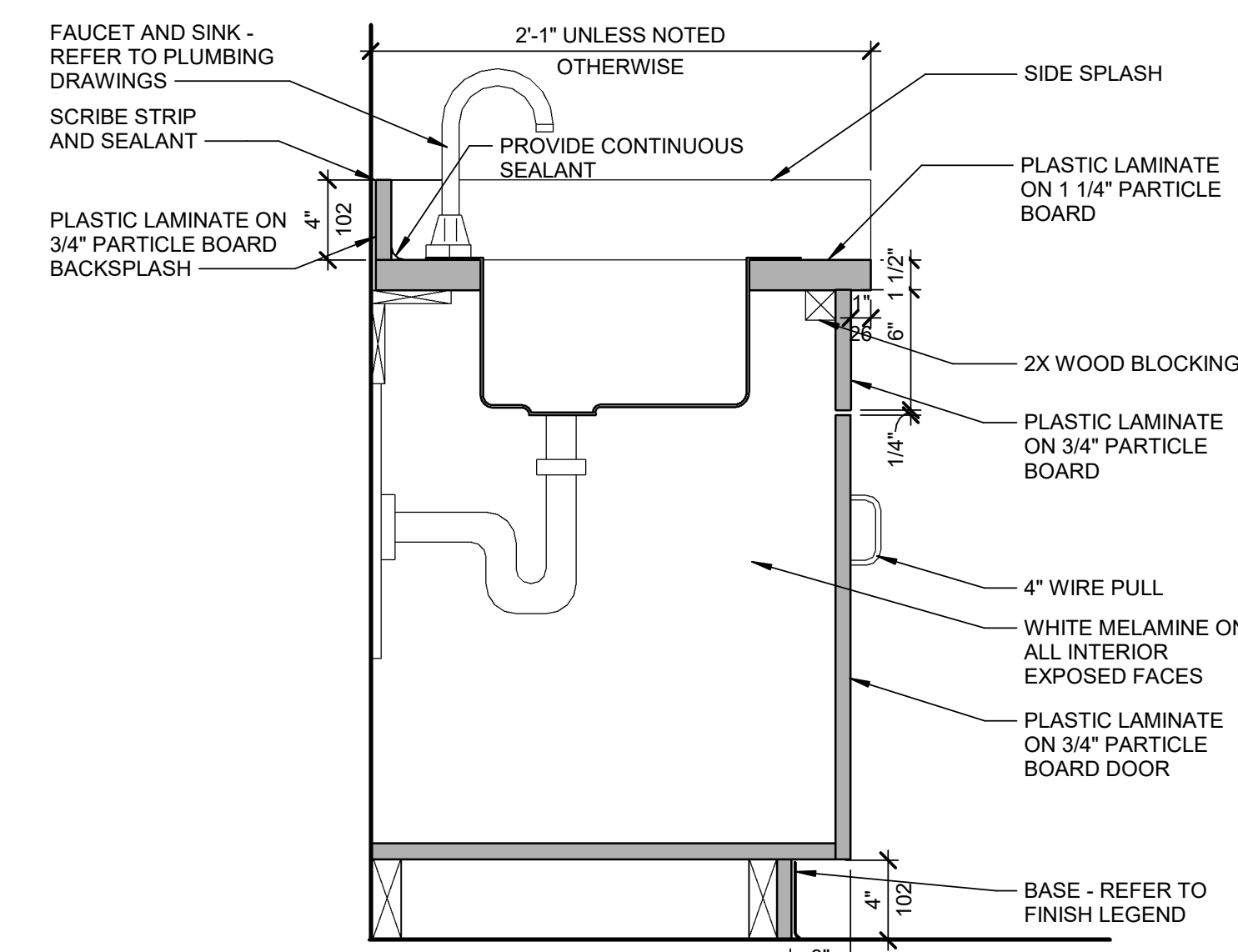
C6 TYPICAL COUNTER SECTION
TYP. SCALE: 1 1/2" = 1'-0"



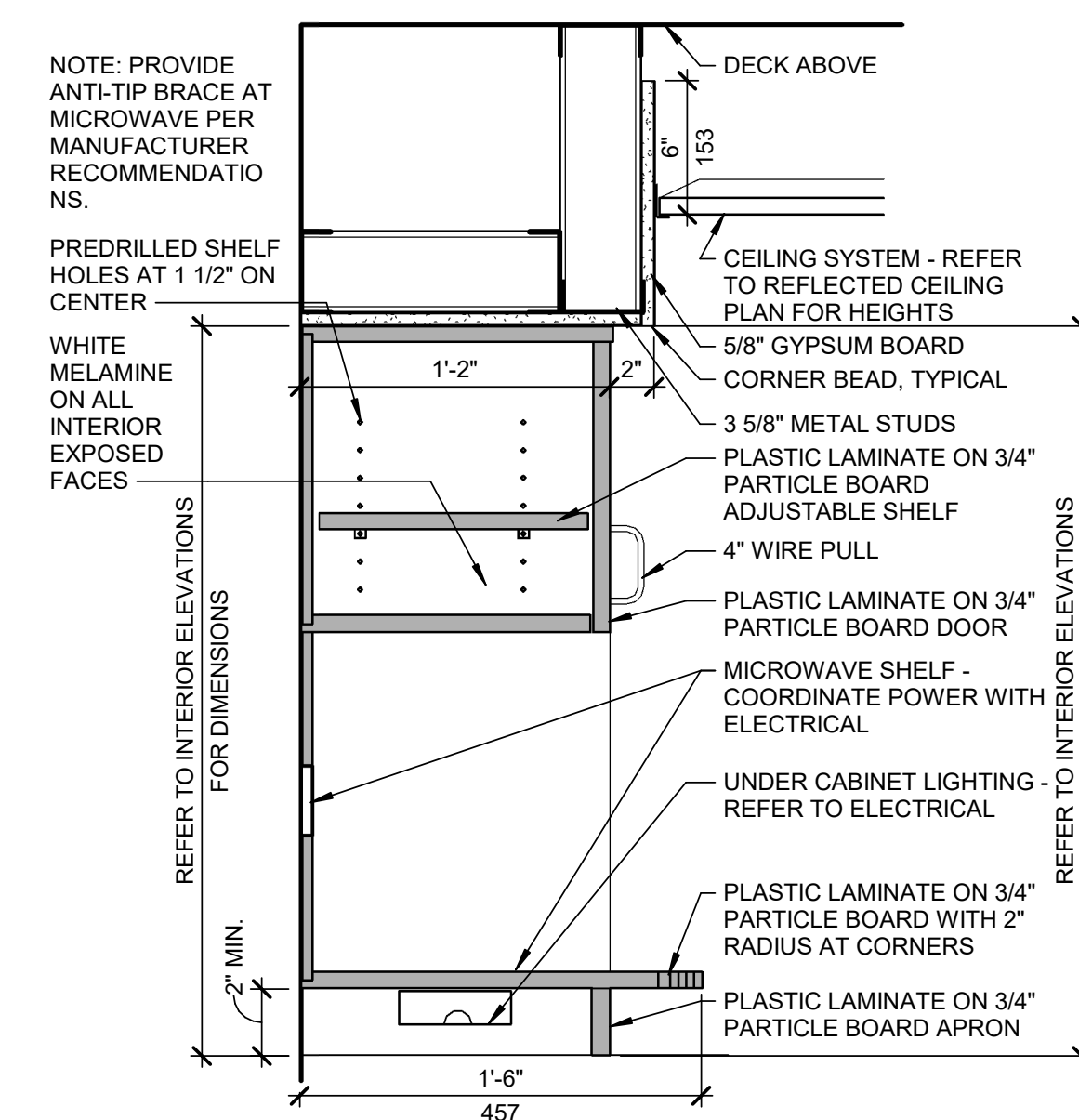
C8 TYPICAL 4 DRAWER BASE CABINET
TYP. SCALE: 1 1/2" = 1'-0"



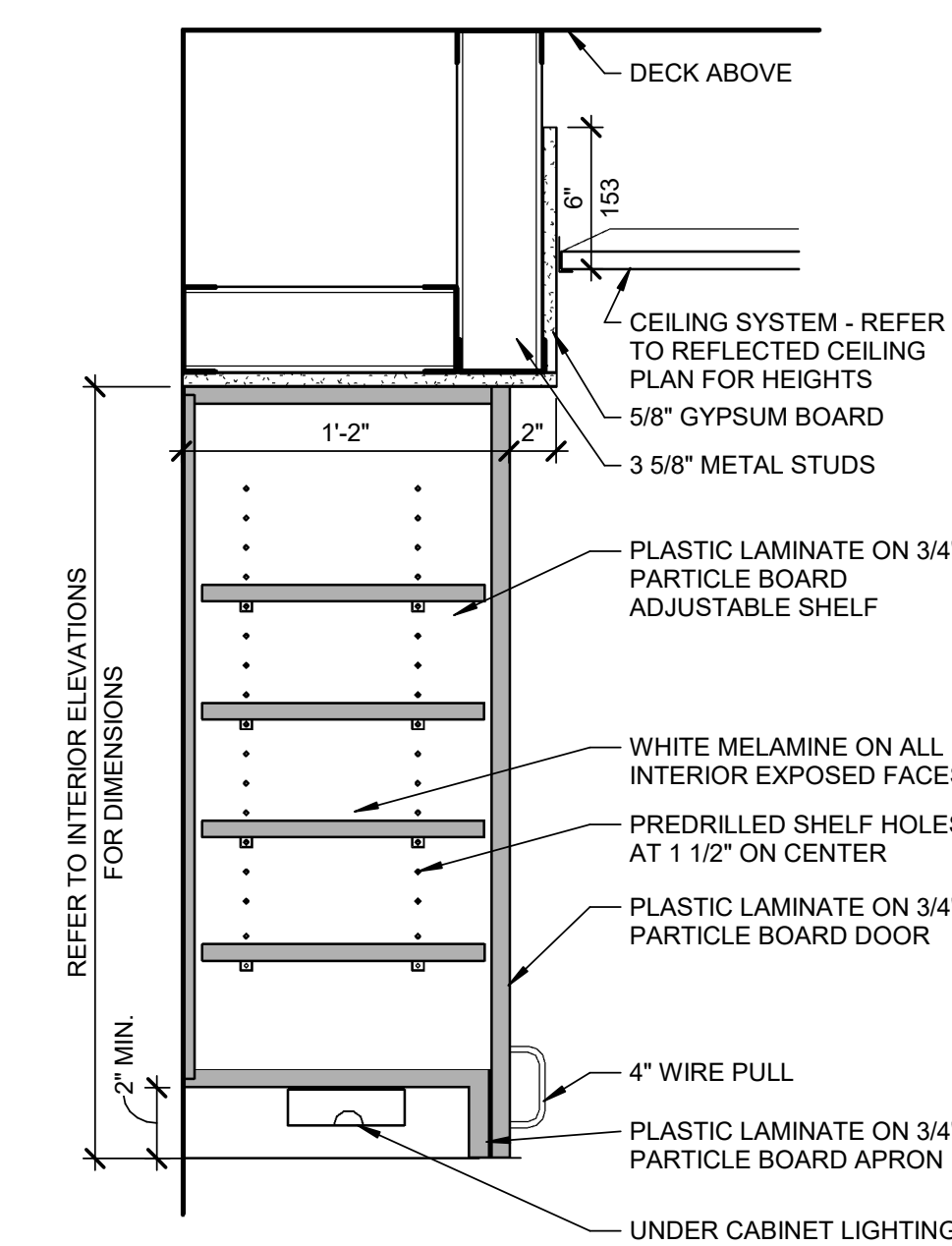
A1 TYPICAL BASE CABINET
TYP. SCALE: 1 1/2" = 1'-0"



A3 TYPICAL SINK BASE CABINET
TYP. SCALE: 1 1/2" = 1'-0"



A6 WALL CABINET W/ MICROWAVE SHELF
TYP. SCALE: 1 1/2" = 1'-0"



A8 TYPICAL WALL CABINET
TYP. SCALE: 1 1/2" = 1'-0"

NO.	DATE	SUBJECT
1	04-28-22	ISSUED FOR CONSTRUCTION

SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77364
T. (419) 255-3830

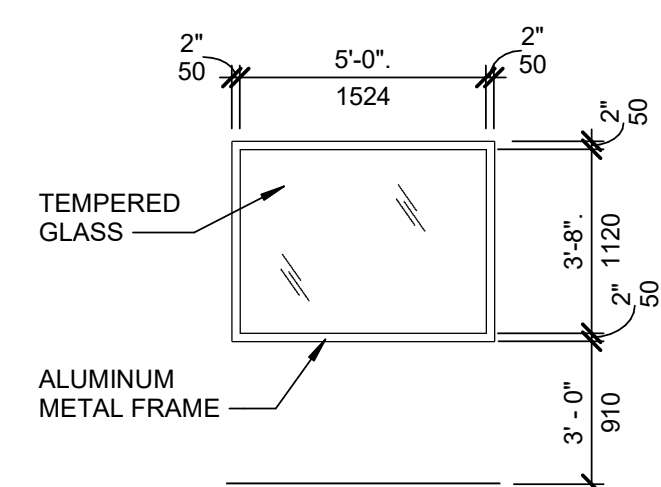
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: Checker

DRAWING TITLE:
DETAILS AND CASEWORK

DRAWING NO:
AE-511-1

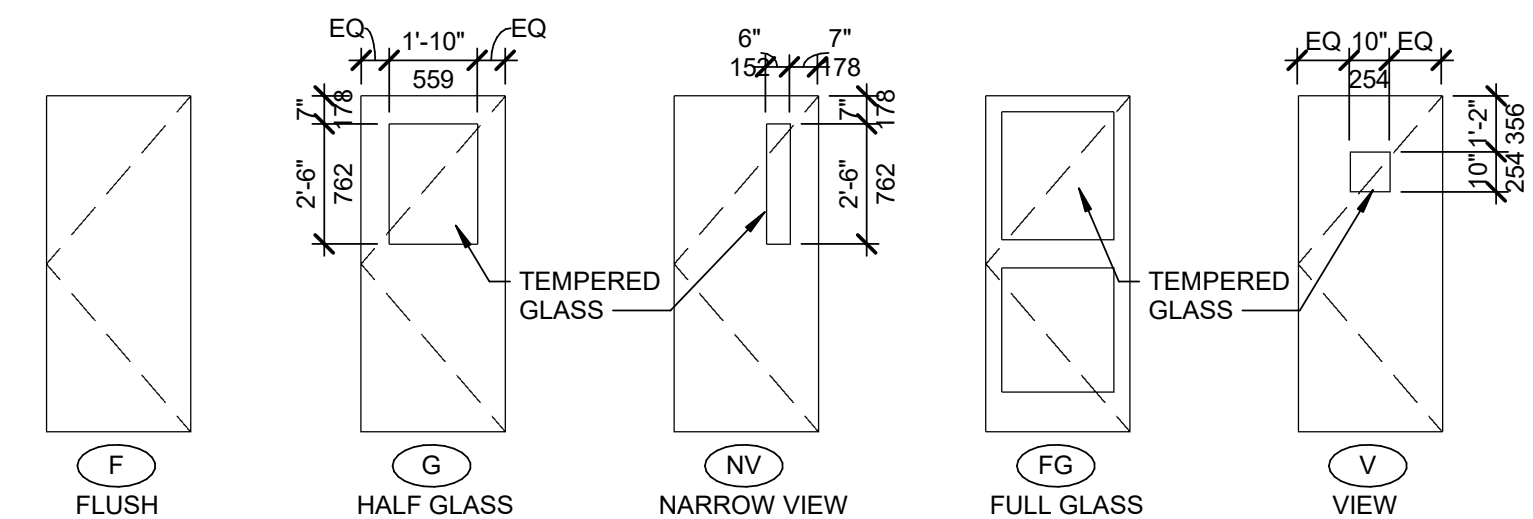
DOOR SCHEDULE - OFFICE LEVEL 1													
NO.	LEAF	DOOR			FIRE RATING	FRAME			HARDWARE SET	DOOR OPERATION OPTIONS	REMARKS	NO.	
		WIDTH	HEIGHT	THK		MATL	TYPE	HEAD					JAMB
101A	1	3'-0"	7'-0"	1 3/4"	HM	F4	14	15	S3	(none)	X	101A	
101B	1	3'-0"	7'-0"	1 3/4"	HM	F4	10	11	S1	(none)		101B	
105A	1	3'-0"	7'-0"	1 3/4"	HM	NV	8	9	S1	(none)		105A	
107A	1	3'-0"	7'-0"	1 3/4"	HM	NV	8	9	S1	(none)		107A	
107B	1	3'-0"	7'-0"	1 3/4"	HM	NV	8	9	S1	(none)		107B	
108	1	3'-0"	7'-0"	1 3/4"	HM	F	14	15	S3	(none)	X	108	
109A	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		109A	
109B	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		109B	
109C	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		109C	
109D	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		109D	
110	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		110	
111A	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		111A	
111B	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		111B	
111C	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		111C	
111D	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		111D	
112B	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		112B	
114A	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		114A	
114B	2	8'-0"	8'-0"	2"	HM	F4CM	14	15	S3	(none)		114B	
115A	1	3'-0"	7'-0"	1 3/4"	HM	NV	8	9	S1	(none)		115A	
115C	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		115C	
116	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		116	
117	1	3'-0"	7'-0"	1 3/4"	HM	F	10	11	S1	(none)		117	
118	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		118	
120	1	3'-0"	7'-0"	1 3/4"	HM	F	8	9	S1	(none)		120	

DOOR SCHEDULE - OFFICE LEVEL 2													
NO.	LEAF	DOOR			FIRE RATING	FRAME			HARDWARE SET	DOOR OPERATION OPTIONS	REMARKS	NO.	
		WIDTH	HEIGHT	THK		MATL	TYPE	HEAD					JAMB
208	1	3'-0"	7'-0"	1 3/4"	WD	F	8	9	S1	(none)		208	
210	1	3'-0"	7'-0"	1 3/4"	WD	F	8	9	S1	(none)		210	
211	1	3'-0"	7'-0"	1 3/4"	WD	NV	8	9	S1	(none)		211	
212	1	3'-0"	7'-0"	1 3/4"	WD	NV	8	9	S1	(none)		212	
213	1	3'-0"	7'-0"	1 3/4"	WD	NV	8	9	S1	(none)		213	
214	1	3'-0"	7'-0"	1 3/4"	WD	NV	8	9	S1	(none)		214	
215	1	3'-0"	7'-0"	1 3/4"	WD	NV	8	9	S1	(none)		215	

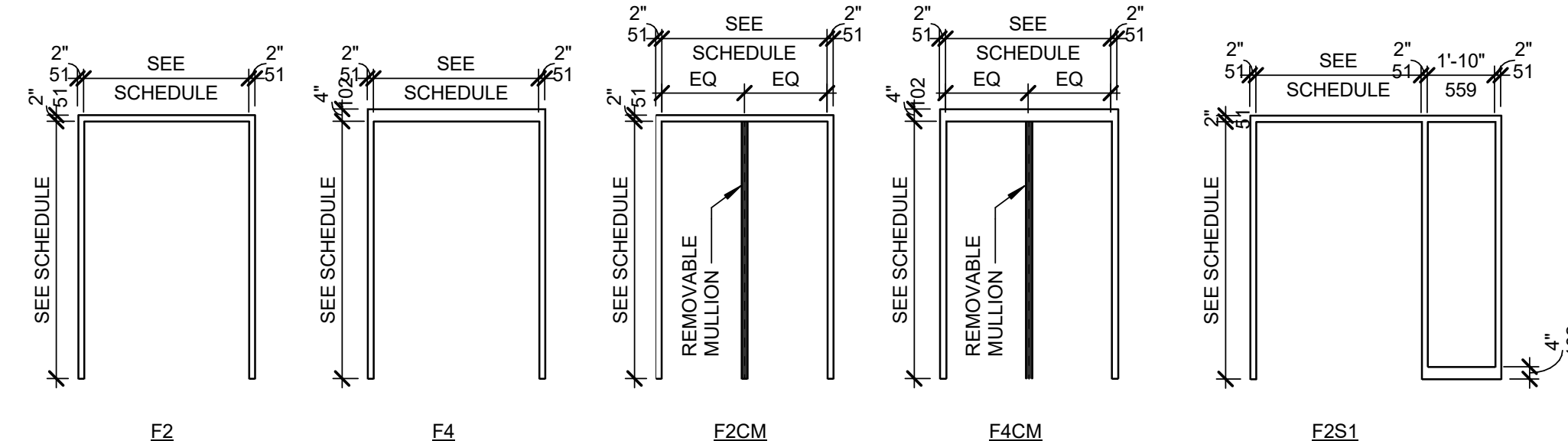


WINDOW TYPE 1

GENERAL NOTES
TYPICAL DOUBLE DOOR ACTIVE LEAF 3'-0" UNLESS NOTED OTHERWISE
DOOR OPTION LEGEND
I = INTERIOR
E = EXTERIOR
B = INTERIOR AND EXTERIOR
OTHER EXISTING DOORS ARE TO RECEIVE CARD READERS, AS INDICATED.



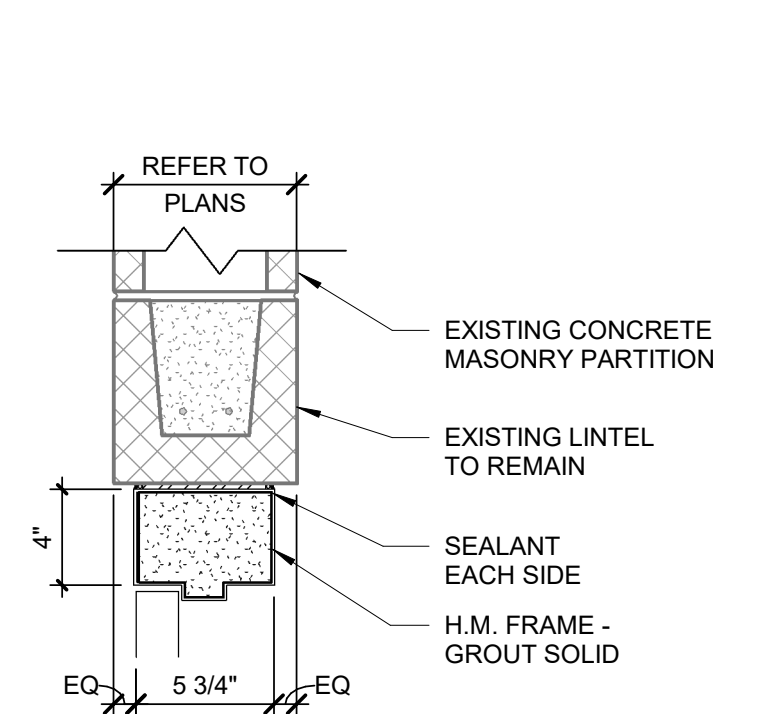
DOOR TYPES



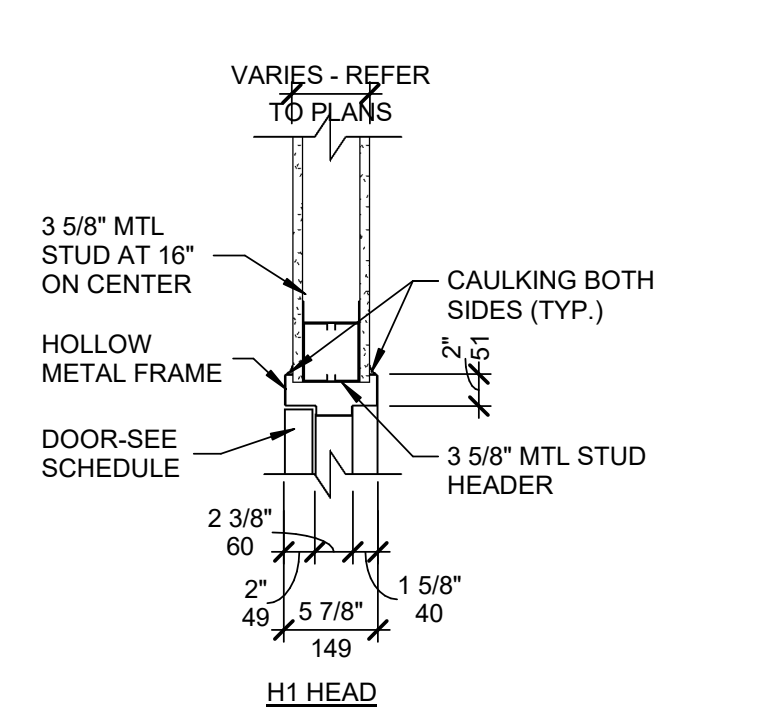
DOOR FRAME TYPES

SILL DETAILS:

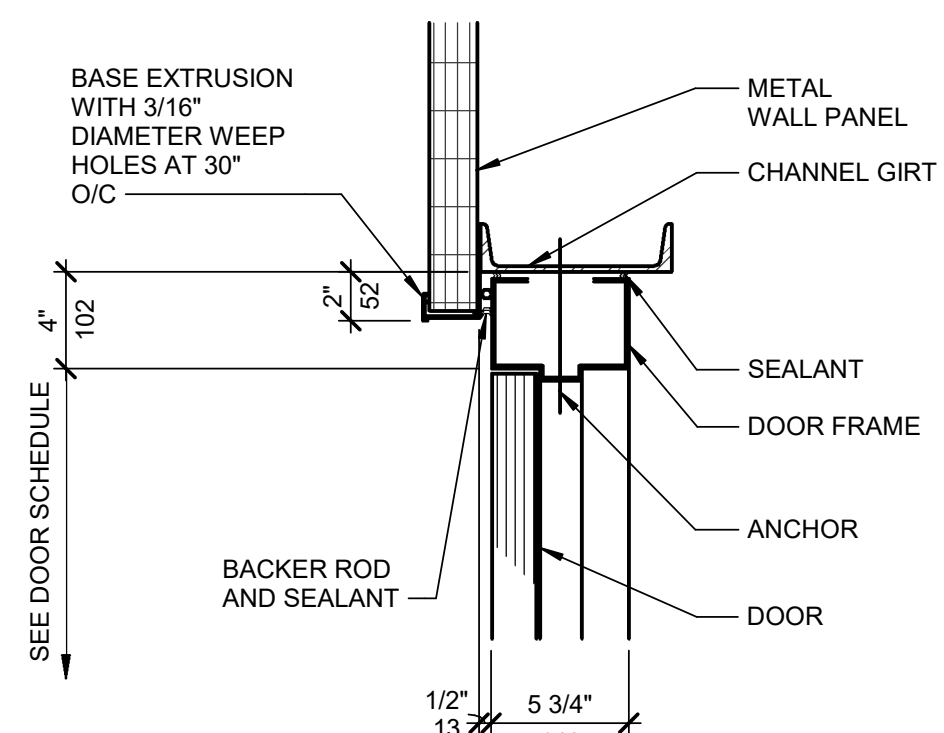
NOTE: REFER TO FINISH SCHEDULE FOR FLOORING TRANSITION LOCATIONS



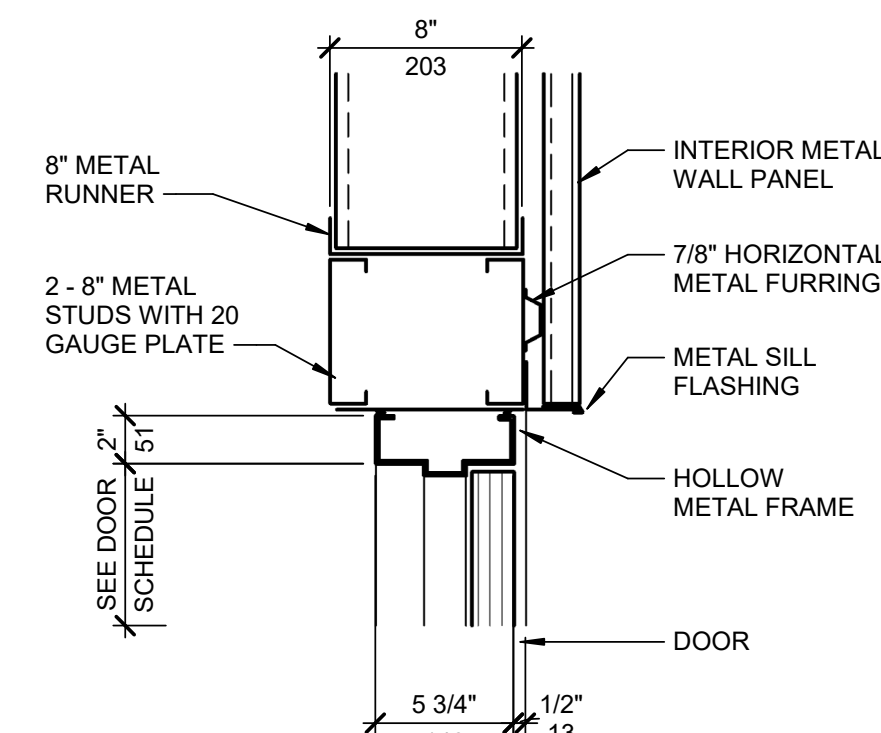
10 DOOR HEAD - CMU
SCALE: 1 1/2" = 1'-0"



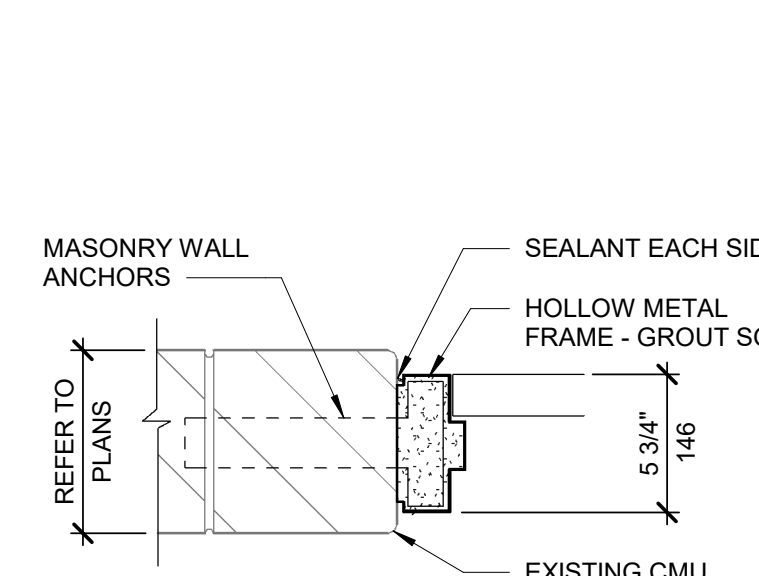
8 DOOR HEAD - GYP BD
SCALE: 1" = 1'-0"



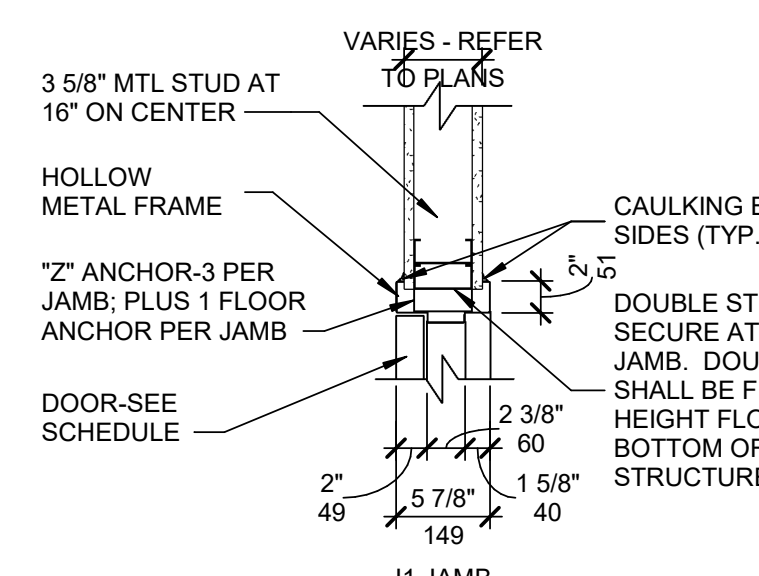
6 MAN DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



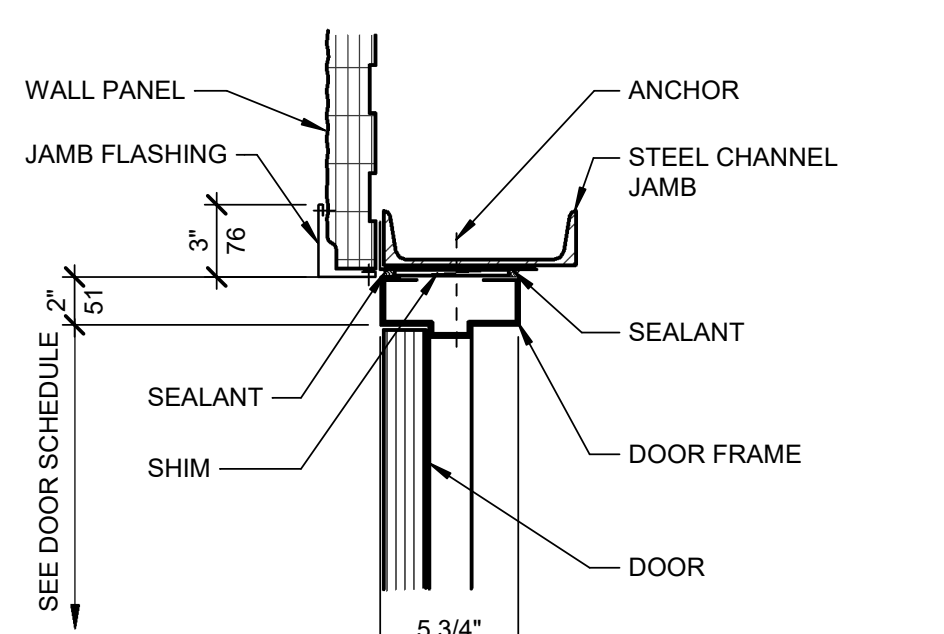
4 MAN DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



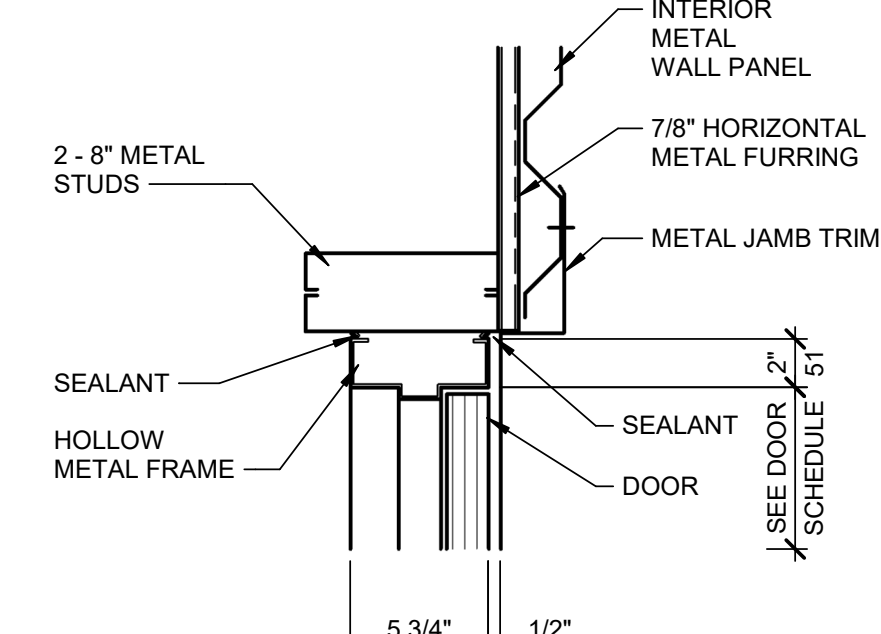
11 DOOR JAMB - CMU
SCALE: 1 1/2" = 1'-0"



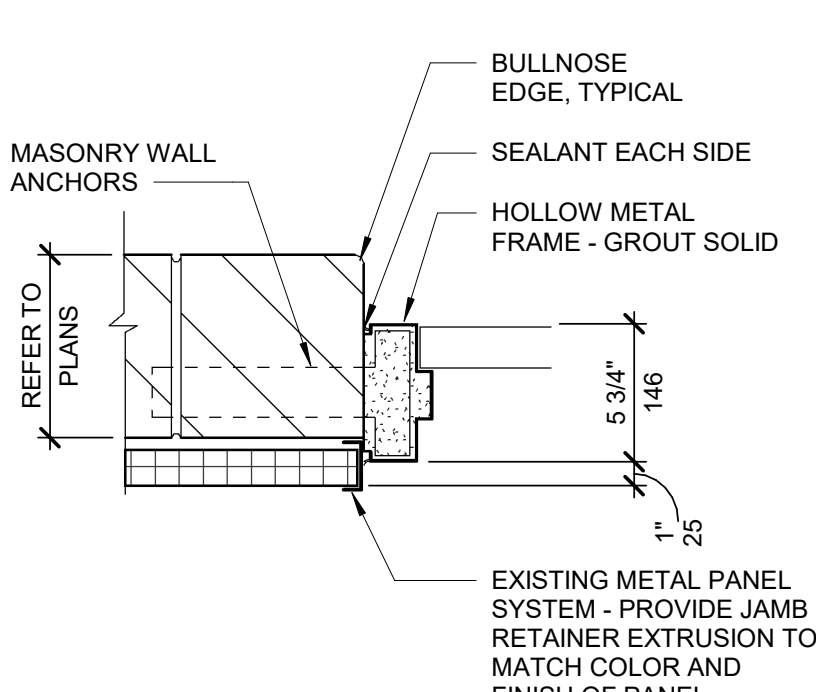
9 DOOR JAMB - GYP BD
SCALE: 1" = 1'-0"



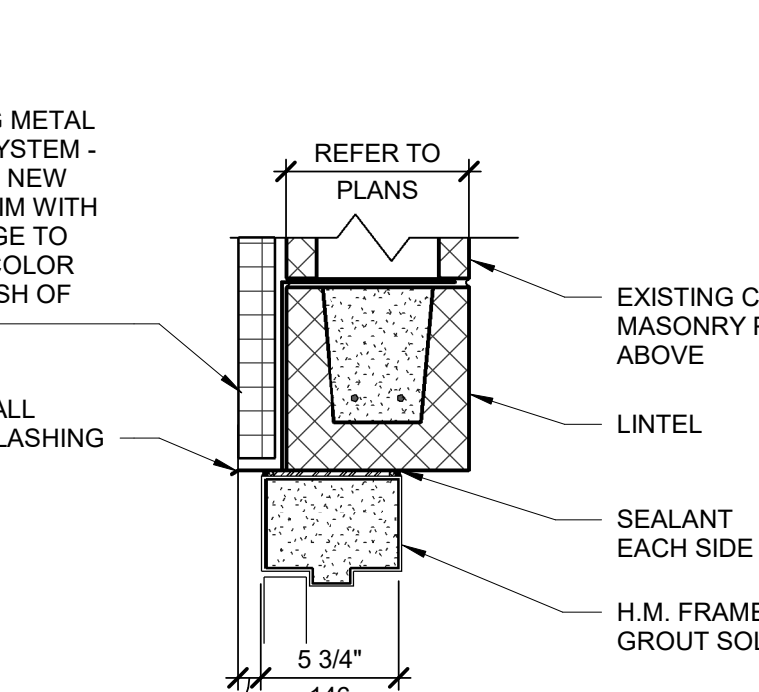
7 MAN DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



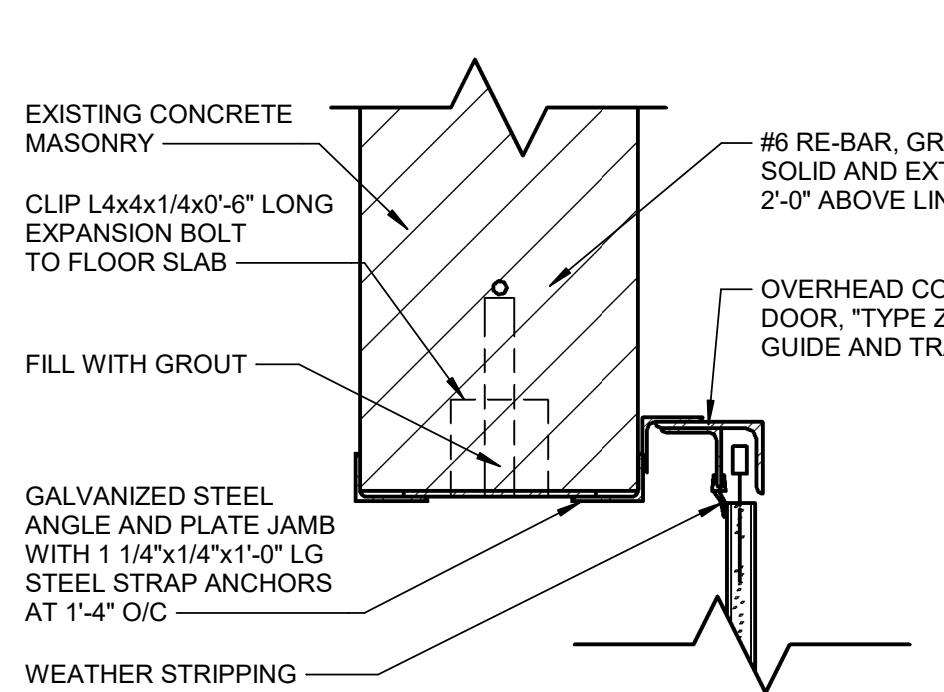
5 MAN DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



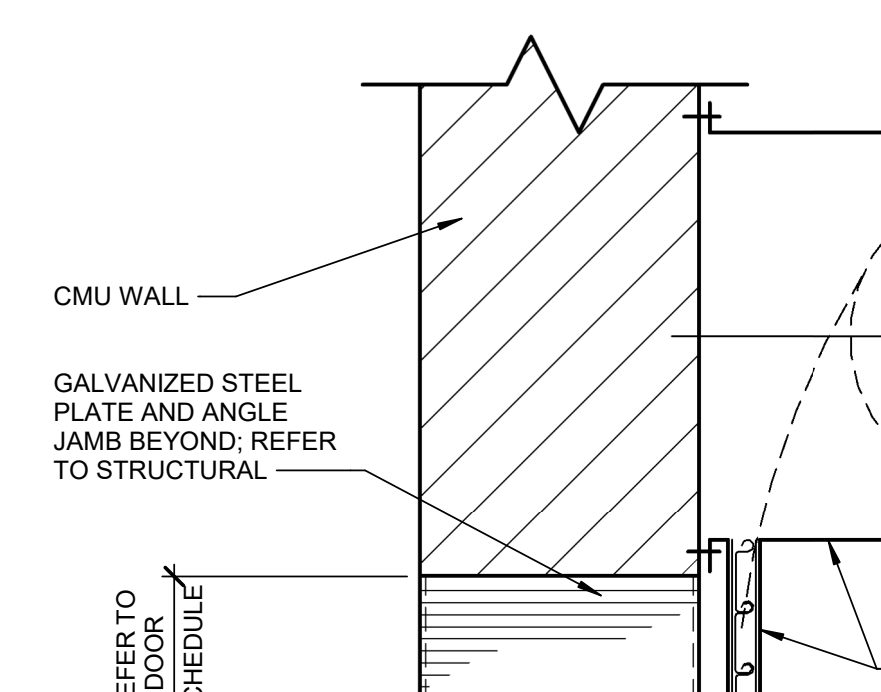
15 DOOR JAMB EXTERIOR - CMU
SCALE: 1 1/2" = 1'-0"



14 DOOR HEAD EXTERIOR - CMU
SCALE: 1 1/2" = 1'-0"



13 OHC DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



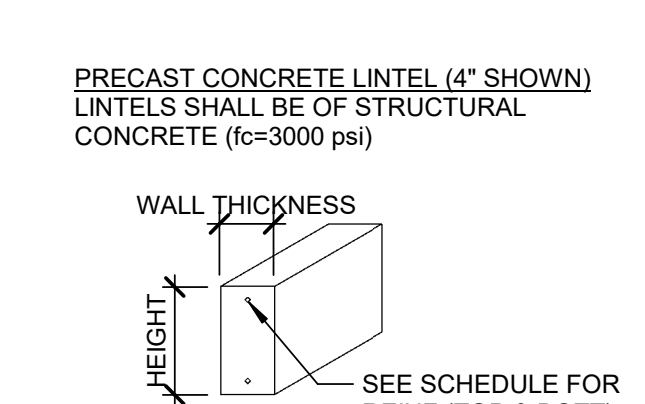
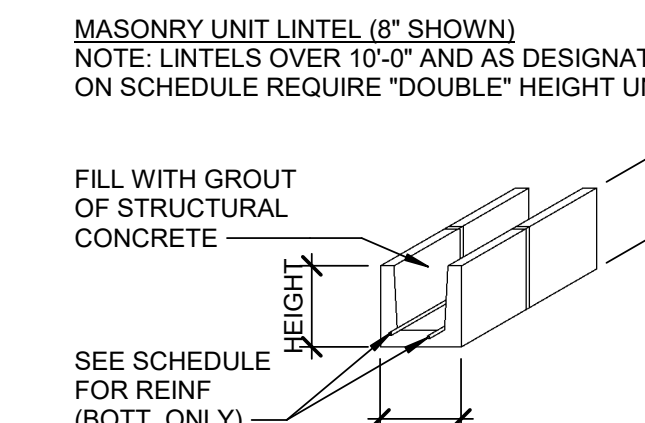
12 OHC DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

NOTES:

- UNLESS OTHERWISE NOTED, PROVIDE LINTELS OVER OPENINGS IN CONCRETE MASONRY WALLS ACCORDING TO THIS SCHEDULE LINTEL DESIGNATIONS, REFER TO MARK DOWNS TYPICALLY ON PLANS.
- LINTELS ARE SCHEDULED FOR EACH 4" WALL THICKNESS. IN 6" WALLS, PROVIDE A LINTEL WITH 50% GREATER REINF.
- MAKE-UP OF LINTELS IS DETERMINED BY ARCHITECTURAL FINISH REQUIREMENTS. FOR EXAMPLE, A LINTEL OVER A 5'-6" OPENING IN A 12" WALL COULD BE EITHER:
 - 12"x8" MASONRY UNIT LINTEL WITH 3-#4 BOTTOM. SEE MASONRY UNIT LINTEL DIAGRAM.
 - 12"x8" PRECAST CONCRETE LINTEL WITH 3-#4 TOP AND BOTTOM. SEE PRECAST CONCRETE LINTEL DIAGRAM.

LINTEL SCHEDULE				
LINTEL DESIGNATION	NOMINAL HEIGHT	CONCRETE REINFORCING	MIN. END BEARING	MASONRY NON-LAD BEARING OPENING
L1	8"	1 - #3	4"	UP TO 3'-11"
L2	8"	1 - #3	6"	4'-0" TO 4'-11"
L3	8"	1 - #4	6"	5'-0" TO 5'-11"
L4	8"	1 - #4	8"	6'-0" TO 6'-11"
L5	8"	1 - #6	8"	7'-0" TO 7'-11"
L6	8"	1 - #6	8"	8'-0" TO 8'-11"
L7	8"	1 - #6	8"	9'-0" TO 9'-11"

LINTEL NOTES AND ISO



CONSULTANTS:

Issued For CONSTRUCTION
05/03/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:

KIRK J. MARCHISEN
REGISTERED ARCHITECT

PROJECT INFORMATION:
BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:
ASCEND ELEMENTS
ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

NO.	DATE	SUBJECT	REVISION OR ISSUE
3	04-28-22	ISSUED FOR CONSTRUCTION	
2	04-12-22	IFR	
1	03-16-22	IFR	

SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77364
T. (419) 255-3830

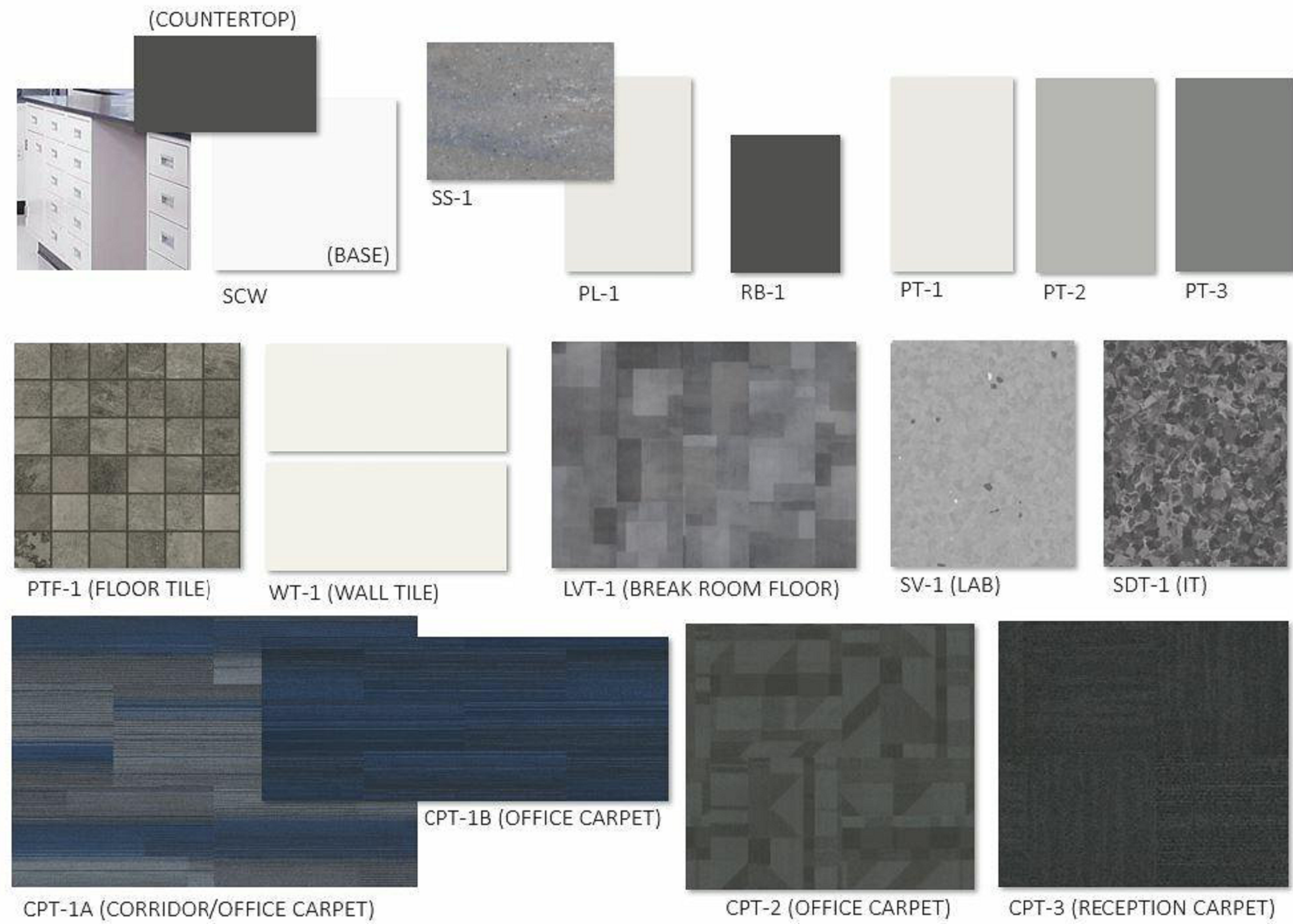
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: S. HUFF

DRAWING TITLE:
DOOR & WINDOW - OFFICE

DRAWING NO:
AE-600-1

FINISH LEGEND		
FLOORS	BASE	WALLS
CNC (SEALED CONCRETE)	RB-1 (RUBBER BASE) MFR: TARKETT TYPE: 4" COVE COLOR: GATEWAY	FRP-1 (FIBERGLASS REINFORCED PANELS) MFR: CRANE COMPOSITES PRODUCT: VARIETEX LINEN TEXTURE COLOR: COTTON WHITE (1130)
CPT-1A (CARPET TILE) MFR: SHAW CONTRACT TYPE: CHROMATONE - 5T444 COLOR: INDIGO CHARCOAL - 07485 SIZE: 18" X 36" INSTALLATION: BRICK		PT-1 (PAINT) MFR: SHERWIN WILLIAMS COLOR: SW 7004 SNOWBOUND
CPT-1B (CARPET TILE) MFR: SHAW CONTRACT TYPE: SATURATE - 5T109 COLOR: INDIGO CHARCOAL - 07485 SIZE: 18" X 36" INSTALLATION: BRICK		PT-2 (PAINT) MFR: SHERWIN WILLIAMS COLOR: SW 7558 GRAY CLOUDS
CPT-2 (CARPET TILE) MFR: SHAW CONTRACT TYPE: THINK TILE COLOR: TRANSFORM SIZE: 24" X 24" INSTALLATION: QUARTER TURN		PT-3 (PAINT) MFR: SHERWIN WILLIAMS COLOR: 7067 CITYSCAPE
CPT-3 (CARPET TILE) MFR: SHAW CONTRACT TYPE: JIVE TILE - 5T1412 COLOR: STEP - 12549 SIZE: 24" X 24" INSTALLATION: QUARTER TURN		WT-1 (WALL TILE) MFR: DAL TILE TYPE: COLOR WHEEL SIZE: 4" X 12" COLOR: MATTE ARTIC WHITE GROUT: TEC POWER 939
ETR - EXISTING TO REMAIN		
LVT-1 (LUXURY VINYL TILE) MFR: SHAW CONTRACT TYPE: INSPIRE 0894V COLOR: EXPERIENCE 84595 SIZE: 12" X 24" INSTALLATION: BRICK	ACT-1 (ACOUSTICAL CEILING TILE) MFR: ARMSTRONGS WORLD INDUSTRIES PATTERN: DUNE 2X2 TEGULAR #1774 COLOR: WHITE GRID: 15/16" PRELUDE	SCW (METAL CASEWORK) EPOXY COUNTERTOP MFR: DURCON INCORPORATED COLOR: GRAPHITE
SDT-1 (STATIC DISSIPATIVE TILE) MFR: TARKETT TYPE: IQ GRANIT SD VINYL TILE GROUNDED TO AN OUTLET	ETR (EXISTING TO REMAIN)	METAL BASE MFR: KEWAUNEE SCIENTIFIC CORPORATION COLOR: SNOW WHITE
PTF-1 (PORCELAIN TILE FLOOR) MFR: DAL TILE TYPE: SLATE ATTACHE SIZE: 2" X 2" MOSAIC GROUT: TEC POWER 939	EXP (EXPOSED CEILING) PAINTED PER SCHEDULE	PL-1 (PLASTIC LAMINATE) MFR: FORMICA COLOR: WHITE
SV-1 (SHEET VINYL) MFR: TARKETT TYPE: ARIA MELODY 3.0 COLOR: BEACH STONE SIZE: ROLL WELD ROD:	GWB (GYPSUM WALLBOARD)	SS-1 (SOLID SURFACE) MFR: CORIAN COLOR: JUNIPER
	OTS (OPEN TO STRUCTURE)	
FINISH NOTES		
<ol style="list-style-type: none"> 1. PLASTIC LAMINATE CASEWORK (PL-1) TO HAVE 4" BACK AND SIDE SPLASHES. 2. ALL BASE IS TO BE RB, TARKETT RUBBER 4" COVE BASE, UNLESS NOTED OTHERWISE. 3. WALL TILE UP TO 7'-0" WITH SCHLUTTER JULY EDGE AT ALL EXPOSED EDGES AND METAL COVE-PROFILE BASE 4. ALL WALLS ARE TO BE PAINTED, UNLESS NOTED OTHERWISE. 5. ALL GYPSUM WALL BOARD CEILINGS ARE TO BE PAINTED, UNLESS NOTED OTHERWISE. 6. ALL WINDOW SILLS ARE TO BE SOLID SURFACING. 7. FRP UP TO 4'-0" AT WALLS BEHIND MOP SINK. 8. TOILET PARTITIONS GENERAL PARTITIONS HDPE 501 HAMMERED STAINLESS STEEL HIGH DENSITY POLYMER. 9. METAL LOCKERS ON CONCRETE BASE WRAPPED WITH TILE. 10. ETR = EXISTING TO REMAIN 11. EX. SKYLIGHT W/ BULKHEAD. 		

ROOM FINISH SCHEDULE													
NO	ROOM NAME	Area	FLOOR FINISH	BASE FINISH	WALL FINISH				CASEWORK VERTICAL	CASEWORK HORIZONTAL	CEILING		REMARKS
					NORTH	EAST	SOUTH	WEST			MATL	FINISH	
FIRST FLOOR													
101	RECEPTION	280 SF	CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
102	STAIR	113 SF	ETR	ETR	PT-1	PT-1	PT	PT-1	--	--	ETR		
103	CORRIDOR	27 SF	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
104	TRUCKERS RESTROOM	39 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	--	--	GWB	PT-1	3.
105	CORRIDOR	462 SF	CPT-1A	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
106	CONFERENCE ROOM	510 SF	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	--	--	ACT-1		
107	BREAK ROOM	384 SF	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PL-1	SS-1	ACT-1		
108	CORRIDOR	150 SF	CPT-1A	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
109	WOMENS RESTROOM	131 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	PL-1	SS-1	ACT-1	PT-1	3.
109A	RESTROOM VESTIBULE	39 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	--	--	GWB	PT-1	
109C	SHOWER	44 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	--	--	GWB	PT-1	
110	JANITOR	36 SF	CNC	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
111	MENS RESTROOM	132 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	PL-1	SS-1	GWB	PT-1	3.
111A	RESTROOM VESTIBULE	40 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	--	--	ACT-1	PT-1	
111C	SHOWER	44 SF	PFT-1	WT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	WT-1, PT-1	--	--	GWB	PT-1	
112	ELECTRICAL	328 SF	CNC	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
113	ELECTRICAL	105 SF	CNC	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
114	ELECTRICAL	452 SF	CNC	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
115	LAB	287 SF	SV-1	RB-1	PT-1	PT-1	PT-1	PT-1	SWC	SWC	ACT-1		
116	FIRE RISER CLOSET	20 SF	CNC	NA	--	--	--	--	--	--	OTS		
117	MECHANICAL ROOM	102 SF	CNC	--	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
118	SHIPPING RECEIVING OFFICE	94 SF	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
119	STORAGE	21,138 SF	CNC	ETR	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
OFFICE 2ND FLOOR													
201	STAIR	120 SF	ETR	ETR	PT-1	PT-1	PT-1	PT-1	--	--	ETR		
202	OPEN OFFICE	871 SF	CPT-1A	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ETR		
203	GUEST CUBICLES	1,140 SF	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1, GWB	PT-1	11.
204	OFFICE	100 SF	CPT-1B	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ETR		
205	OFFICE	130 SF	CPT-1B	RB-1	PT-1	PT-3	PT-1	PT-1	--	--	ETR		
206	CORRIDOR	63 SF	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
207	OPEN OFFICE	216 SF	CPT-1A	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
208	IT	191 SF	SDT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	EXP	PT-1	
209	CORRIDOR	237 SF	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
210	STORAGE	37 SF	CNC	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	OTS		
211	OFFICE	75 SF	CPT-1B	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ACT-1		
212	OFFICE	80 SF	CPT-1B	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	ETR		
213	CONFERENCE ROOM	241 SF	CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	--	--	ACT-1, GWB	PT-1	11.
214	CONFERENCE ROOM	100 SF	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	--	--	ACT-1		
215	CONFERENCE ROOM	115 SF	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	--	--	ACT-1, GWB	PT-1	11.



ASCEND ELEMENTS

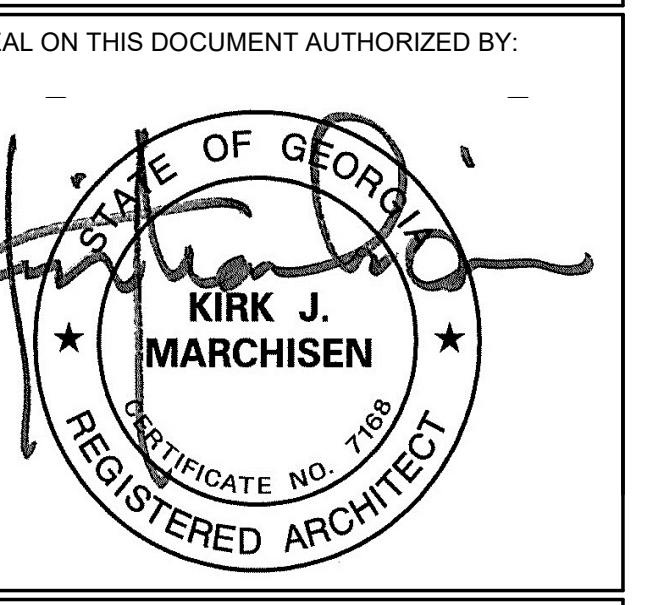
FINISH BOARD

SSOE | S&W



CONSULTANTS:

Issued For CONSTRUCTION
05/03/2022
www.ssoe.com



PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

NO.	DATE	SUBJECT
2	04-28-22	ISSUED FOR CONSTRUCTION
1	04-12-22	IFR
		REVISION OR ISSUE

SSOE, Inc.
1001 Madison Avenue
Atlanta, GA 30304
T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: J. HAINES
CHECKED: S. HUFF

DRAWING TITLE:
ROOM FINISH SCHEDULE & LEGEND

DRAWING NO:
AE-610-1

Issued For
CONSTRUCTION
05/03/2022
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BROWNFIELD MODIFICATIONS



ASCEND ELEMENTS

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9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

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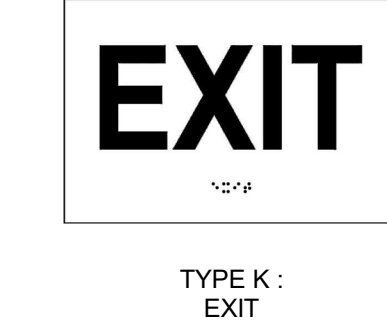
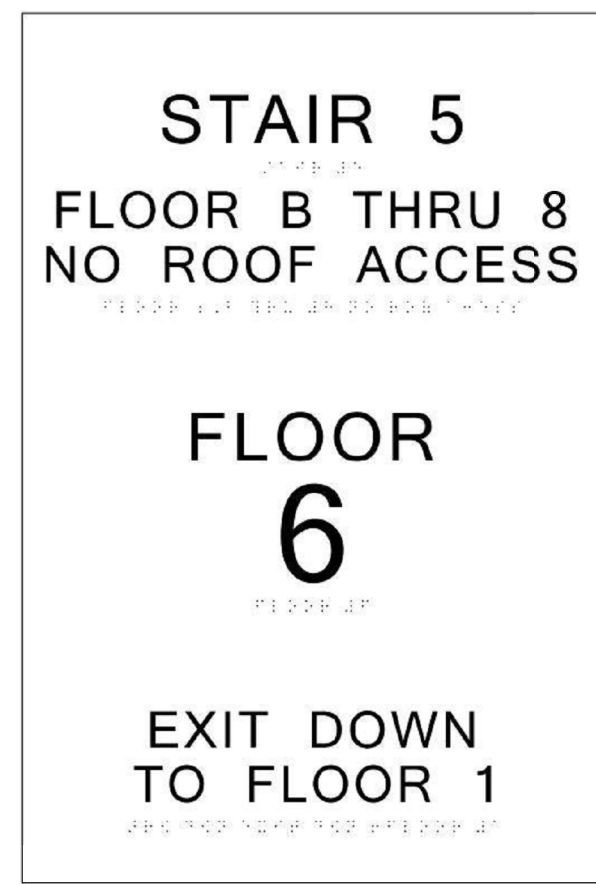
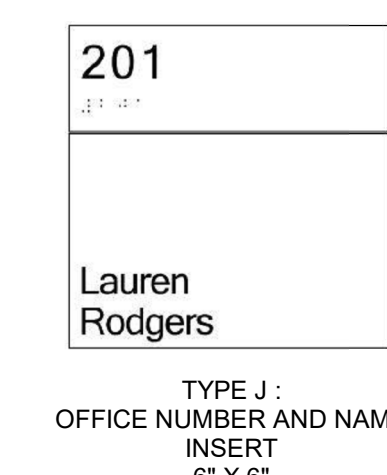
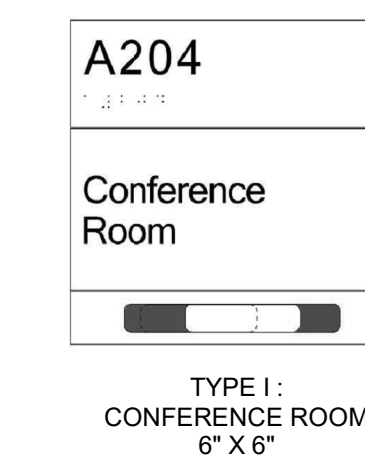
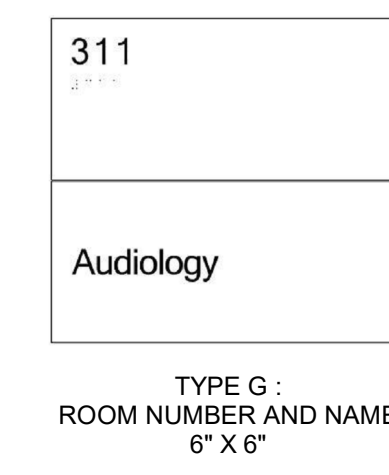
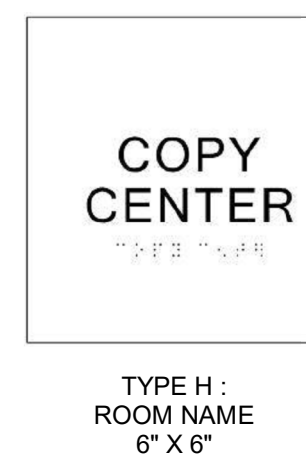
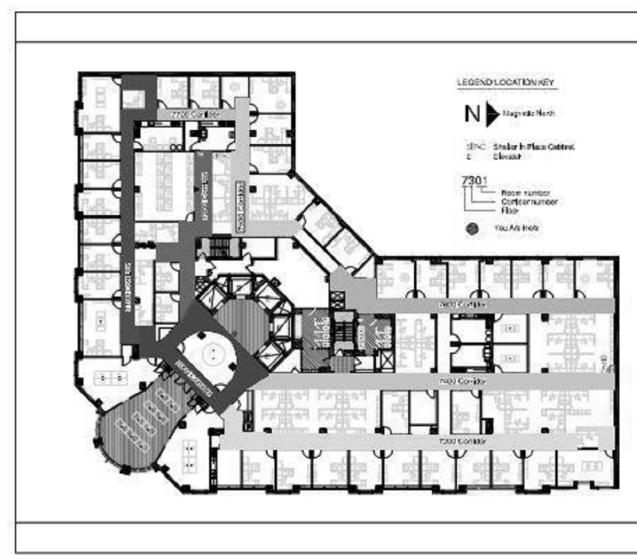
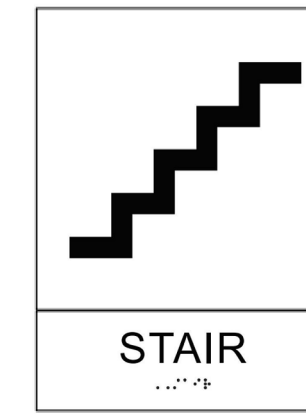
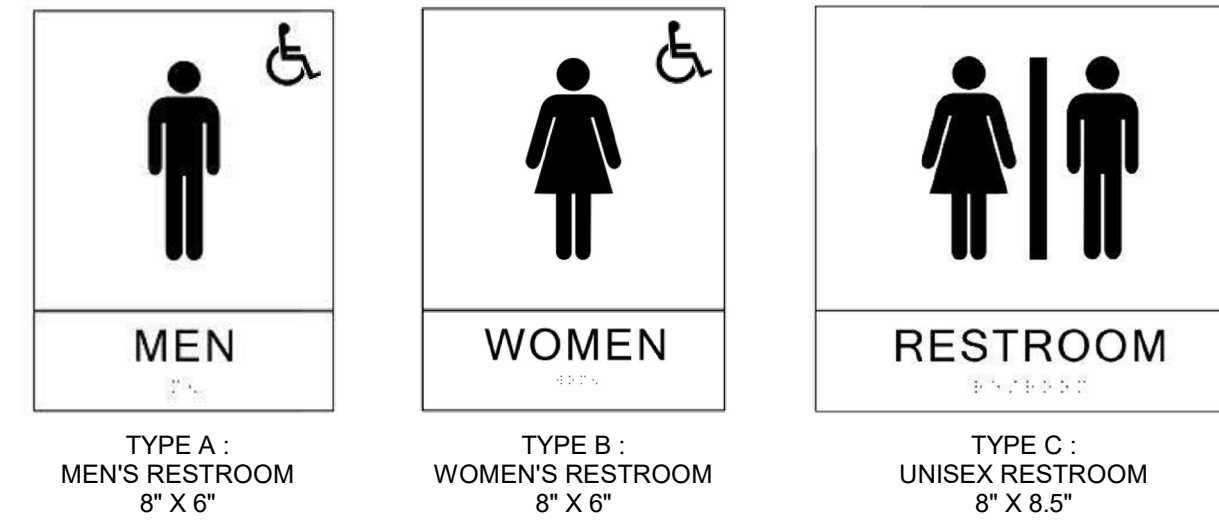
SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77364
T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: T. SENN
CHECKED: S. HUFF

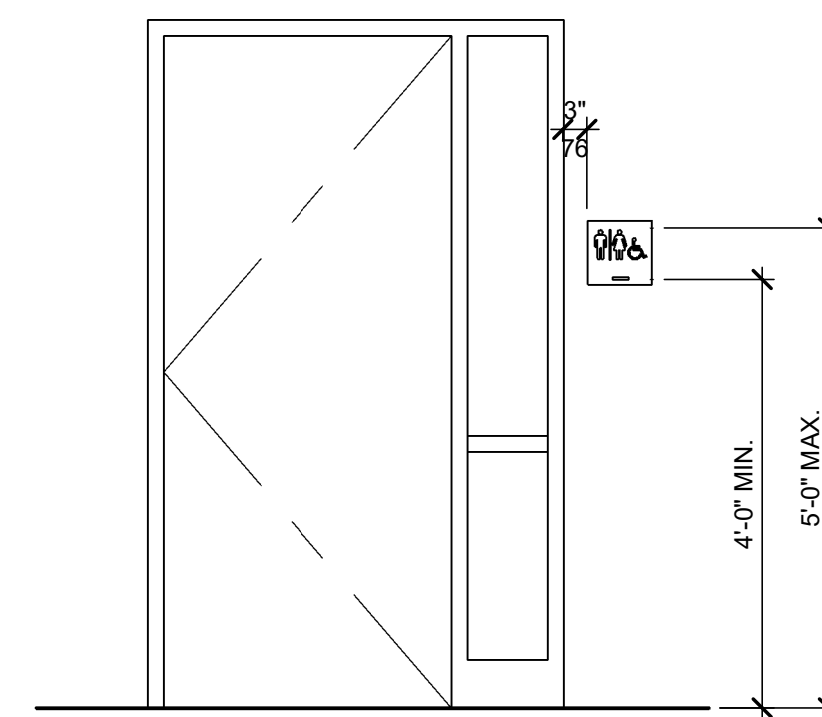
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OFFICE FINISH PLANS

DRAWING NO:
IN-111-1

SIGNAGE LEGEND:

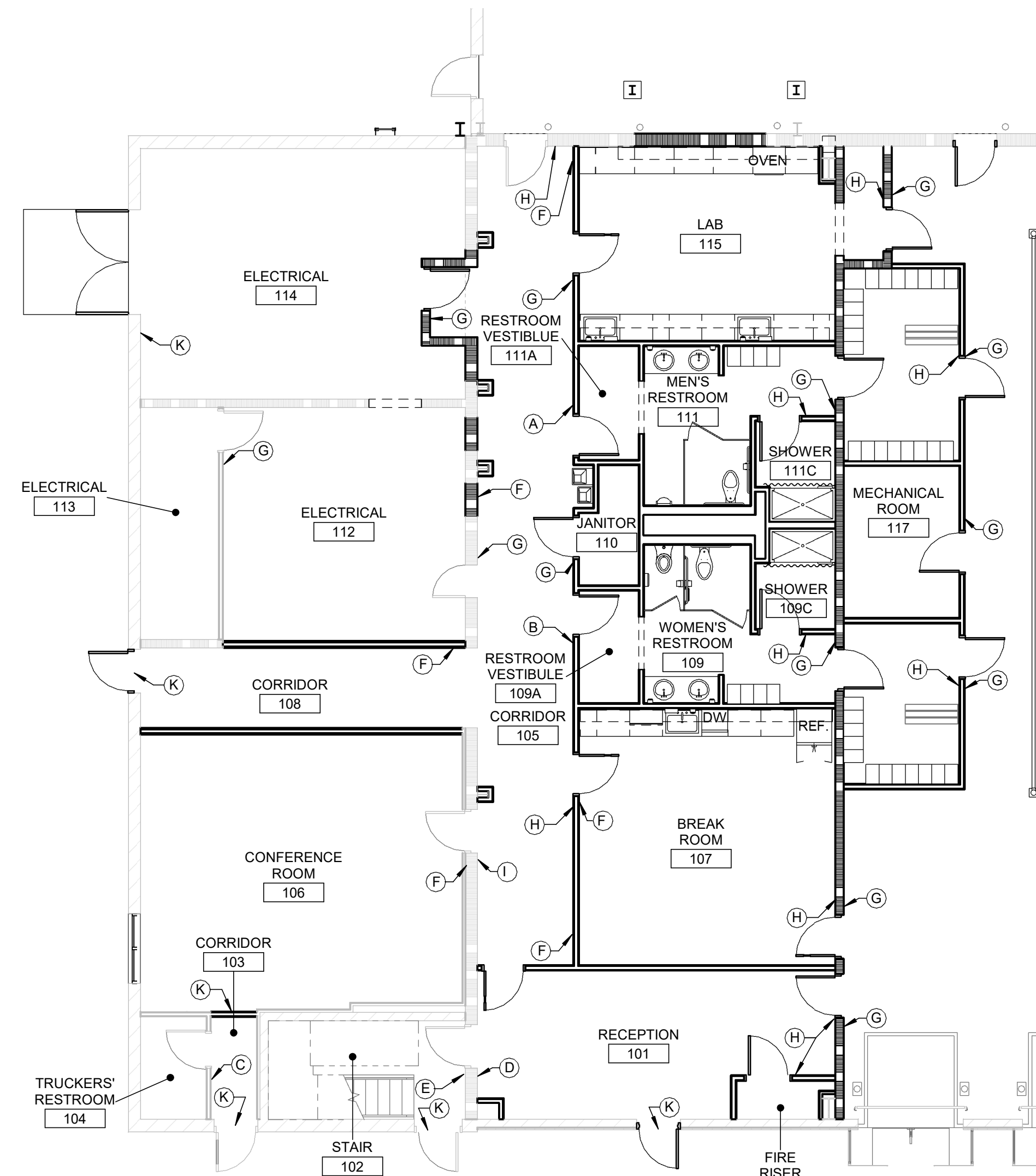


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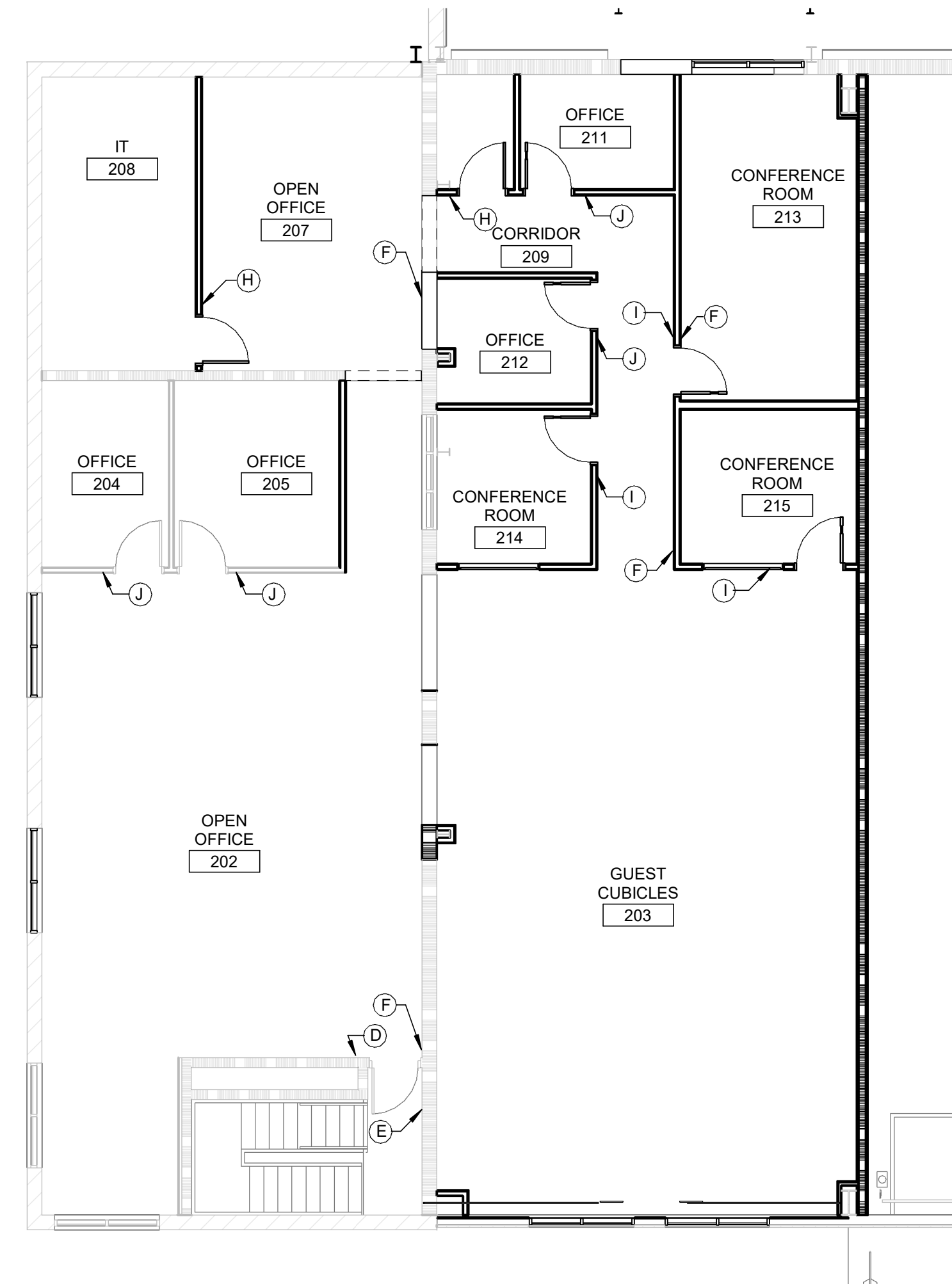


GENERAL NOTES:

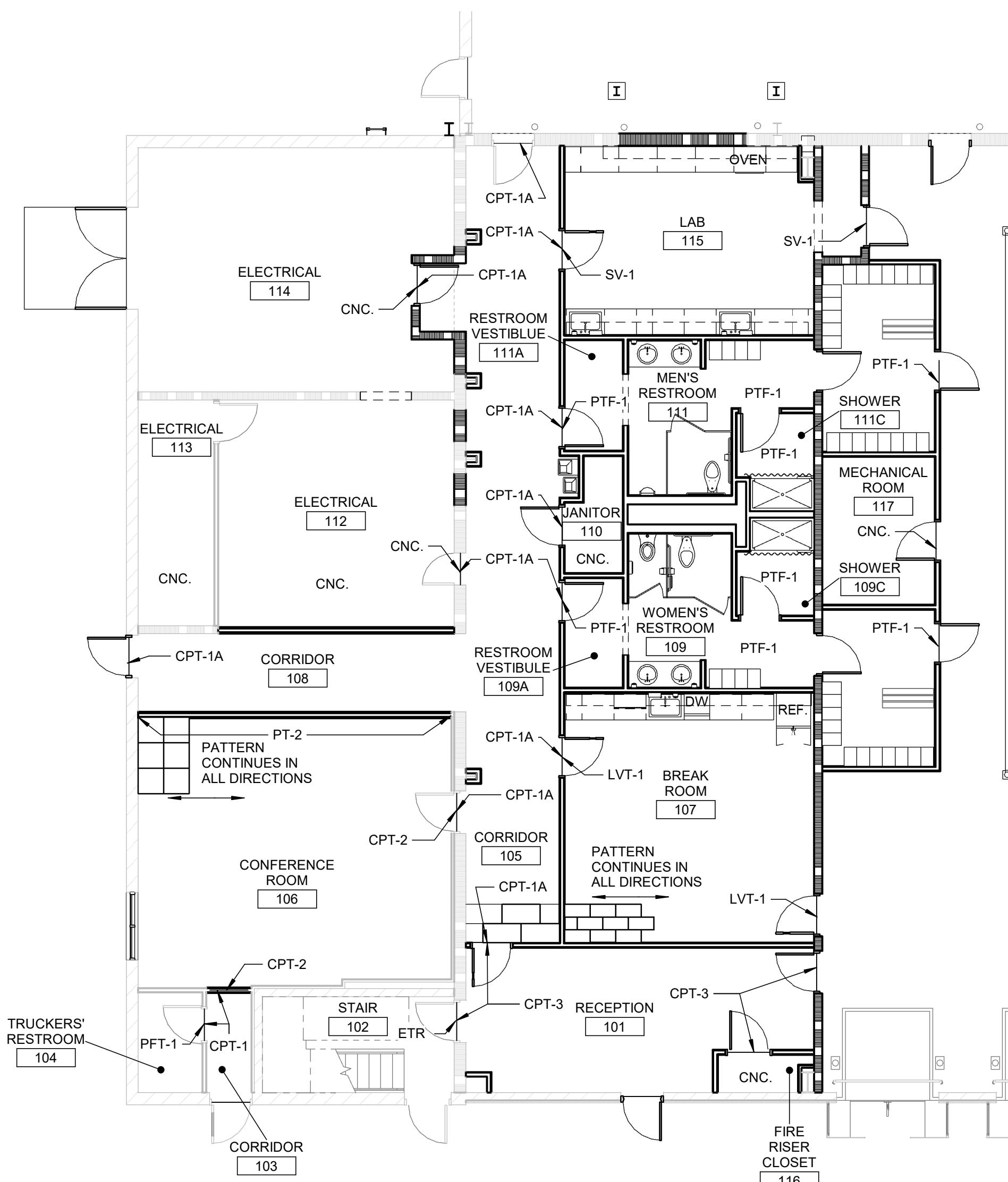
- ALL SIGNAGE TEXT AND GRAPHICS TO BE APPROVED BY OWNER.
- PROVIDE SIGNAGE PER THE GM DESIGN GUIDELINES v5.0.
- INCLUDE ROOM FINDER OR LABELING ON CONFERENCE AND Huddle ROOMS.
- PROVIDE SIGNAGE WITH BRAILLE TO MEET ADA GUIDELINES.
- PROVIDE SIGN BACKER AT GLASS WITH SIMILAR TEXT FOR FACING INWARD TOWARDS THE OCCUPANTS INSIDE ROOM.
- REFER TO SIGNAGE LEGEND ON SHEET AE-610 FOR INFORMATION.
- REFER TO ROOM FINISH SCHEDULE ON SHEET AE-610 FOR ROOM NAMES AND NUMBERS.



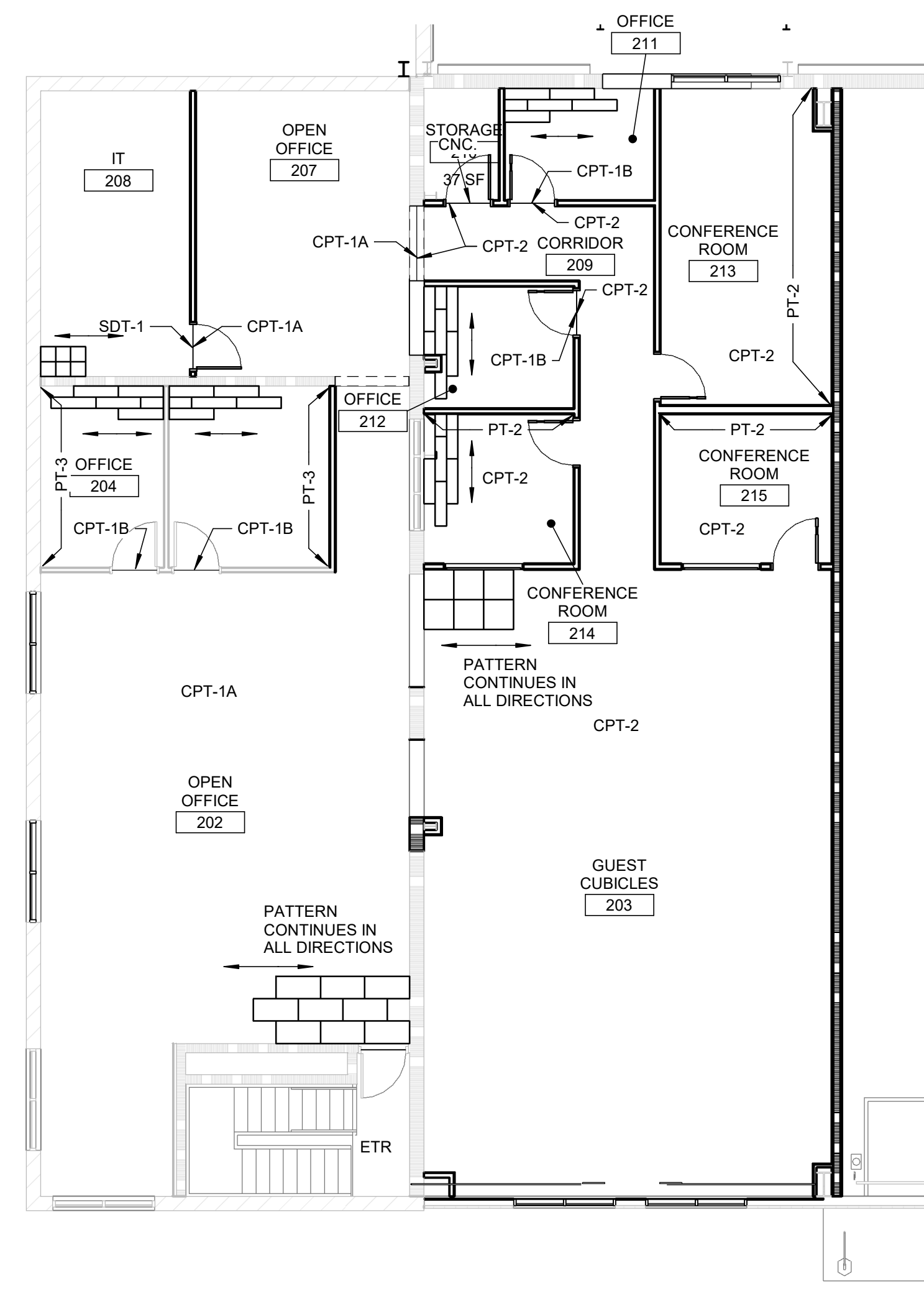
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SCALE: 1/8" = 1'-0"



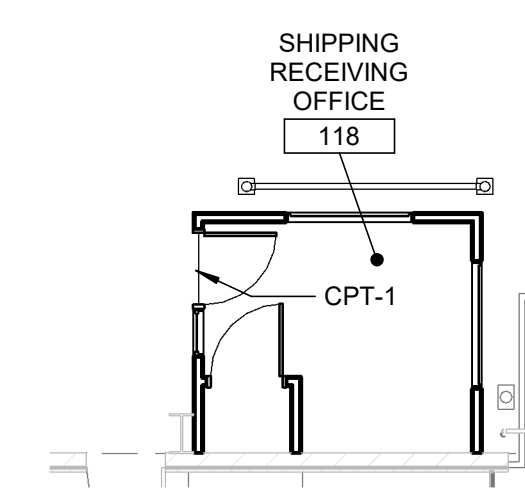
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SCALE: 1/8" = 1'-0"



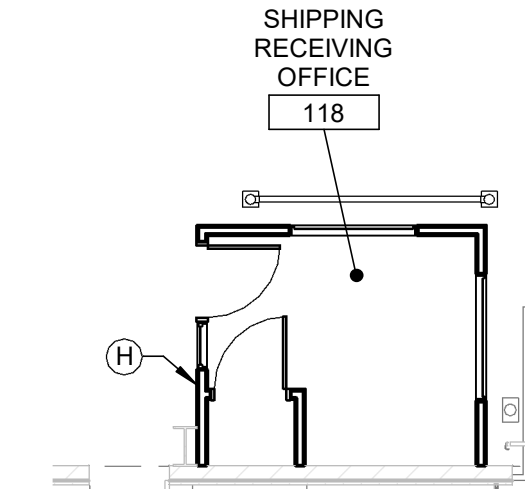
1 FIRST FLOOR OFFICE FINISH PLAN
SCALE: 1/8" = 1'-0"



2 SECOND FLOOR OFFICE FINISH PLAN
SCALE: 1/8" = 1'-0"



5 SHIPPING RECEIVING OFFICE FINISH PLAN
SCALE: 1/8" = 1'-0"



6 SHIPPING RECEIVING OFFICE SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

FOR REFERENCE ONLY



CONSULTANTS:

Issued For
CONSTRUCTION
05/03/2022
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SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

**BROWNFIELD
MODIFICATIONS**

CLIENT INFORMATION:



**ASCEND
ELEMENTS**

ASCEND
ELEMENTS
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

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1	04-28-22	ISSUED FOR CONSTRUCTION

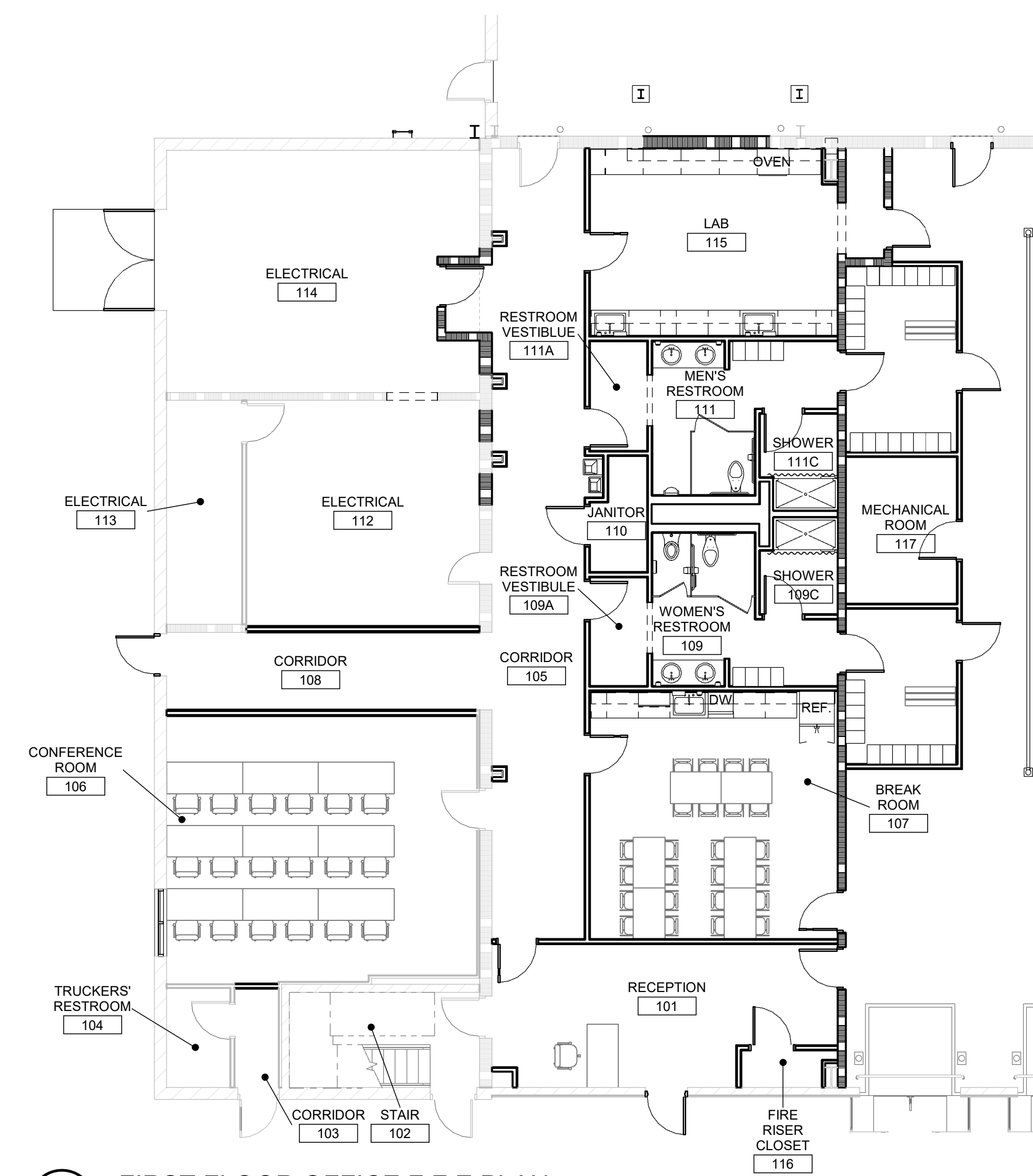
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SSOE, Inc.
1001 Madison Avenue
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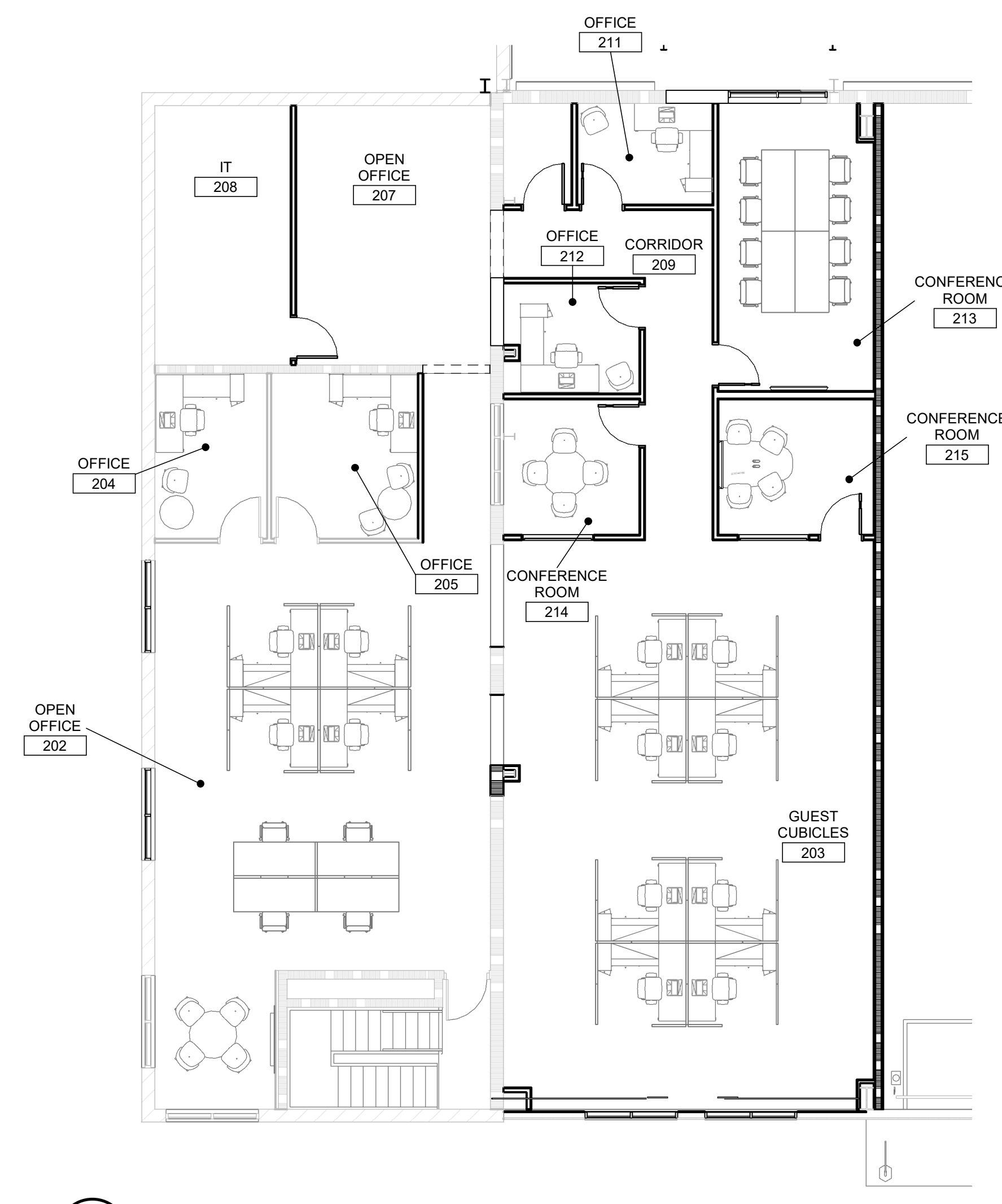
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: T. SENN
CHECKED: J. HAINES

DRAWING TITLE:
OFFICE F.F.E PLANS

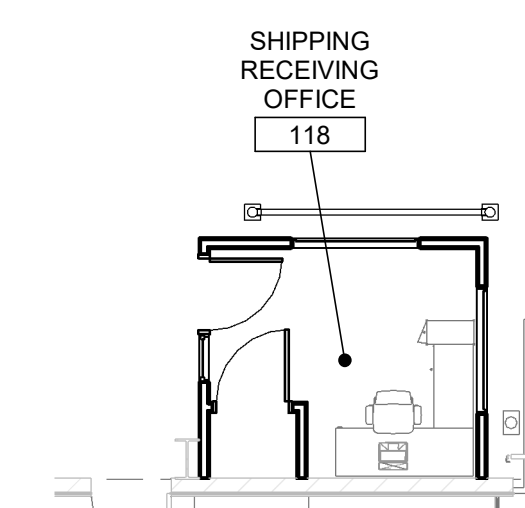
DRAWING NO:
IN-211-1



1 FIRST FLOOR OFFICE F.F.E PLAN
SCALE: 1/8" = 1'-0"



2 SECOND FLOOR OFFICE F.F.E PLAN
SCALE: 1/8" = 1'-0"



3 SHIPPING RECEIVING OFFICE FFE PLAN
SCALE: 1/8" = 1'-0"

GENERAL FOUNDATIONS & SLABS

- 1. DESIGN IS BASED UPON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY ECS SOUTHEAST, LLP, DATED FEBRUARY 7, 2022. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS RELATED TO GROUND WATER CONDITIONS AND CONTROL, DRAINAGE, SITE PREPARATIONS, EARTHWORK OPERATIONS, AND OTHER FOUNDATION INFORMATION. FOUNDATION DESIGN IS BASED ON A NET ALLOWABLE BEARING PRESSURE OF 3000 PSF AND SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF THE PROJECT PRIOR TO CONSTRUCTION OF ANY FOUNDATION ELEMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER & OWNER'S REPRESENTATIVE OF ANY UNEXPECTED CONDITIONS, INSUFFICIENT ALLOWABLE BEARING PRESSURE, OR INTERFERENCES THAT MAY REQUIRE A REVISED FOUNDATION DESIGN.
2. SUBBASE GRADING REQUIREMENTS AND DEFINITIONS
- BUILDING PAD BASE: THE BUILDING PAD BASE SHALL BE TYPICALLY SLOPING FROM THE CENTERLINE OF THE BUILDING DOWN TO THE PERIMETER.
- THE STONE BASE SHALL BE 4" THICK FOR SLABS UP TO AND INCLUDING 6" THICK. IT SHALL BE A WELL GRADED STONE BASE, TRIMMABLE AND COMPACTIBLE (NOT SAND), THAT CAN RESIST WEATHER AS WELL AS HEAVY GRADE AND CONSTRUCTION EQUIPMENT LOADS THROUGHOUT THE BUILDING SHELL CONSTRUCTION PERIOD. PROVIDE ASTM D448 SIZE 487 OR 57 WITH AN ADDITIONAL 30% TO 40% OF THE FINE GRADED MATERIAL, PASSING A #4 SIEVE DOWN TO ROCK DUST. THIS MATERIAL IS TYPICALLY REFERRED TO AS A "CRUSHER RUN".
- AFTER FINAL COMPACTION AND JUST PRIOR TO SLAB CONSTRUCTION, PLACE A "CHOCKER BED" OF FINE GRADED MATERIAL TO REDUCE FRICTION BETWEEN THE SLAB AND BASE MATERIAL. "CHOCKER BED" SHALL BE 1/2 TO 3/4" THICK. PROVIDE A CLEAN, FINE GRADED STONE MATERIAL (NOT SAND) WITH AT LEAST 10% TO 30% PASSING A #100 SIEVE THAT IS FREE OF CLAY, SILT AND ORGANIC MATERIALS. MATERIAL SHALL BE ANGULAR IN NATURE (NOT ROUNDED) SO THAT IT LOCKS TOGETHER WHEN COMPACTED. MATERIAL SHALL HAVE A UNIFORM DISTRIBUTION OF PARTICLES RANGING FROM A #4 TO #200 SIEVE. ASTM D448 UNWASHED #10 WOULD BE AN EXAMPLE OF AN ACCEPTABLE MATERIAL.
- PLACE THE SUBBASE (STONE BASE & CHOCKER BED) FOR FLOOR SLABS TO +0' / -1/2" TOLERANCE SO THAT NO AREA OF FLOOR SLAB IS LESS THAN THE SPECIFIED THICKNESS.
3. THE EXCAVATED SITE SHALL BE INSPECTED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO SCARIFYING, PROOF ROLLING AND PLACEMENT OF STRUCTURAL FILL MATERIAL. ALL EXCAVATION SHALL COMPLY WITH LOCAL, STATE AND FEDERAL SAFETY STANDARDS, INCLUDING OSHA EXCAVATION AND TRENCH STANDARDS. FILLING AND BACKFILLING SHALL BE ACCOMPLISHED UTILIZING A WELL GRADED PROPERLY COMPACTED MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER.
4. FOUNDATION ELEVATIONS NOTED ON THE DRAWINGS ARE MINIMUM PRESUMED ELEVATIONS ESTABLISHED FROM AVAILABLE SOILS INFORMATION. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR PROPERLY COMPACTED SELECT ENGINEERED FILL OR OTHERWISE APPROVED STRUCTURAL FILL.
5. THE BEARING STRATA AT AND BELOW EACH FOUNDATION SHALL BE INSPECTED AND TESTED TO VERIFY THE MINIMUM ALLOWABLE BEARING PRESSURE AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE. NOTIFY ENGINEER & OWNER'S REPRESENTATIVE WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, ADJACENT UTILITIES, EXISTING FOOTINGS, OTHER INTERFERENCES, EXCAVATIONS, ETC. ARE ENCOUNTERED THAT COULD NECESSITATE A REVISED FOUNDATION DESIGN. IF ALLOWABLE BEARING PRESSURE CANNOT BE VERIFIED OR UNSOUND CONDITIONS ARE ENCOUNTERED FOR FOUNDATIONS, NOTIFY ENGINEER & OWNER'S REPRESENTATIVES PRIOR TO START OF REWORK OR REPLACEMENT OF UNSOUND MATERIALS.
6. NO FOUNDATION SHALL BEAR DIRECTLY ON ROCK UNDO, WHERE ROCK IS LESS THAN 2'-0" FROM THE BOTTOM OF THE FOOTING. UNDERCUT FOOTING A MINIMUM OF 2'-0" BELOW THE BOTTOM OF THE FOOTING AND TWO FEET WIDER THAN THE FOOTING. BACKFILL WITH APPROVED STRUCTURAL FILL.
7. PLACE FILL MATERIAL TO RAISE THE GRADE AS REQUIRED TO CONSTRUCT THE AGGREGATE BASE AND STRUCTURE. THE FILL MATERIAL SHALL BE PLACED WITH A LIFT THICKNESS, COMPACTION AND MOISTURE AS DEFINED BY GEOTECHNICAL ENGINEER.
8. FOR WALLS OR GRADE BEAMS HAVING FILL ON EACH SIDE, PROCEED WITH BACKFILLING OPERATIONS SIMULTANEOUSLY IN UNIFORM LIFTS. DIFFERENTIAL ELEVATION OF TOP OF LIFTS BETWEEN EACH SIDE SHALL NOT EXCEED 12".
9. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE SUPPORTED, SHORED AND/OR BRACED UNTIL THE STRUCTURE SUPPORTING THE TOP OF THE WALL HAS BEEN PLACED AND APPROPRIATELY CURED.
10. WHERE FOUNDATIONS ABUT OR ARE NEAR EXISTING FOUNDATIONS, CAREFULLY HAND-EXCAVATE AND DETERMINE BOTTOM OF EXISTING FOUNDATION. NEW FOUNDATIONS SHALL NOT UNDERMINE EXISTING FOUNDATIONS AND SHALL NOT BE INSTALLED BELOW ADJACENT EXISTING FOUNDATIONS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
11. CONTRACTOR SHALL PROVIDE NECESSARY SHEETING, SHORING, BRACING, ETC. AS REQUIRED DURING EXCAVATIONS TO PROTECT EXISTING CONSTRUCTION AND MATERIAL FROM SLIDES OR CAVE-INS AND COMPLY FULLY WITH SAFETY REQUIREMENTS OF OSHA AND OTHER REGULATORY AGENCIES.
12. WHERE FOUNDATION EXCAVATIONS ARE TO REMAIN EXPOSED TO RAINFALL, FROST, ICE OR OTHER ADVERSE CONDITIONS THAT MIGHT HARMFULLY AFFECT THE SUBGRADE, EXCAVATIONS SHALL BE UNDERCUT AND A THREE (3) INCH MUD MAT OF MINIMUM 1500 PSI STRENGTH CONCRETE SHALL BE PLACED TO PROTECT THE SUBGRADE. IF NECESSARY TO PROTECT SUBGRADE SOILS, CONTRACTOR SHALL PROVIDE DEWATERING EQUIPMENT AND DRAINAGE TO REMOVE EXCESS MOISTURE AND MAINTAIN DRY EXCAVATIONS UNTIL CONCRETE WORK IS COMPLETED.
13. SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302.1R. JOINTS SHALL BE CUT WITHIN 8 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5. THE MAXIMUM JOINT SPACING SHALL BE AS SPECIFIED, UNLESS SPECIFIED ON DOCUMENTS, CONTRACTOR TO SUBMIT PROPOSED JOINT LAYOUT FOR REVIEW / APPROVAL.
14. CONTROL JOINTS IN ALL FOUNDATION AND RETAINING WALLS SHALL BE PLACED NOT MORE THAN 20 FEET APART AND SHALL HAVE 3/4 INCH V-CHAMFERS ON EACH SIDE.

CONCRETE

- 1. DESIGN, DETAILING, AND CONSTRUCTION OF REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING PUBLICATION UNLESS NOTED OTHERWISE.
- BUILDING CODE REQUIREMENTS FOR REINFORCED STRUCTURAL CONCRETE (ACI 318)
- DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315)
- GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI-302.1R)
- GUIDE TO HOT WEATHER CONCRETING (908R)
- GUIDE TO COLD WEATHER CONCRETING (308R)
- GUIDE TO MASS CONCRETE (207.1R)
- SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS (117)
2. UNLESS OTHERWISE NOTED, CONCRETE SHALL BE NORMAL WEIGHT AND SHALL DEVELOP 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
- EXTERIOR CONCRETE EXPOSED TO FREEZE / THAW = 4500 PSI, MAX. W/C RATIO 0.45, AIR ENTRAINED
- ALL OTHER CONCRETE = 4000 PSI
3. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064. WELDED WIRE REINFORCEMENT SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END. WELDED WIRE REINFORCEMENT SHALL BE FABRICATED FROM SHEETS. ROLLS ARE NOT ALLOWED.
4. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, SP-66, THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 318.
5. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS PERFORMANCE IS DEGRADED, THE CONTRACTOR IS NOT RELEASED FROM ACHIEVING THE REQUIRED STRENGTH. IF STRENGTH IS NOT ACHIEVED NOTIFY THE ENGINEER OF RECORD.
6. ALL CONCRETE SHALL BE VIBRATED. TO ENSURE PROPER DENSITY AND ELIMINATION OF VOIDS
7. PROVIDE CONCRETE FINISHES IN ACCORDANCE WITH ACI 302.1R ON EXPOSED SURFACES AS FOLLOWS:
- FLOAT FINISH: BELOW GRADE FOOTINGS, TOPS OF FORMED GRADE BEAMS, FOUNDATION WALLS AND PIT MATS
- LIGHT STEEL TROWELED FINISH (ACI 302.1R CLASS 2); FLOORS SCHEDULED TO RECEIVE A COVERED SURFACE (CARPET, CARPET, TILES, OR SIMILAR)
- NORMAL STEEL TROWELED FINISH OR FLOAT FINISH (ACI 302.1R CLASS 3); FLOORS SCHEDULED TO RECEIVE A BONDED OR UNBONDED TOPPING. VERIFY WITH TOPPING MANUFACTURER PRODUCT DATA PRIOR TO PROCEEDING. FLOAT FINISH OR TEXTURED SURFACE TYPICALLY ADEQUATE FOR CERAMIC TILES AND HIGH BUILD COATINGS (BONDED TOPPING); NORMAL STEEL TROWEL FOR THIN SET MATERIALS AND UNBONDED TOPPING.
- NORMAL STEEL TROWELED FINISH (ACI 302.1R CLASS 4); FLOORS FOR FOOT AND/OR LIGHT VEHICULAR TRAFFIC SCHEDULED TO BE EXPOSED.
- HARD STEEL TROWELED FINISH WITH MULTIPLE PASSES (ACI 302.1R CLASS 5 OR 6); FLOORS SCHEDULED TO RECEIVE A SHAKE-ON SURFACE HARDENER OR DIAMOND GRINDING
- BROOM FINISH: INTERIOR FLOORS OR EXTERIOR SLABS OR PADS SCHEDULED TO BE NON-SLIP. VERIFY LIGHT, MEDIUM, OR HEAVY WITH ENGINEER OF RECORD AND OWNER'S REPRESENTATIVE. BROOM PATTERN SHALL BE PERPENDICULAR TO TRAFFIC FLOW.
- TYNE FINISH: STEEP RAMPS AND/OR EXTERIOR PADS AS INDICATED ON THE DRAWINGS. TYNE PATTERN SHALL BE PERPENDICULAR TO TRAFFIC FLOW
8. CHAMFER ALL EXPOSED CONCRETE CORNERS 3/4 INCH x 45 DEGREE, UNLESS NOTED OTHERWISE.
9. ALL PIPE PENETRATIONS THROUGH SLABS SHALL BE POSITIONED AND SLEEVED IN CONFORMANCE WITH ACI 318.
10. REFER TO CIVIL DRAWINGS FOR SITE CONCRETE.
11. REFER TO DRAWINGS OF OTHER DISCIPLINES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS. NOTIFY EOR IF ANY EMBED ITEM OR RECESS REQUIRES MODIFICATION TO ITEMS INDICATED ON THESE DOCUMENTS.
12. FLY ASH CONTENT SHALL NOT EXCEED 25% OF THE TOTAL WEIGHT OF CEMENT PLUS FLY ASH. FLY ASH NOT ALLOWED IN INTERIOR SLABS ON GRADE. FOR MASS CONCRETE (CONCRETE OVER 3 FEET THICK), CONTRACTOR / SUPPLIER TO COORDINATE FLY ASH CONTENT WITH ENGINEER FOR TEMPERATURE CONTROL.
13. CONTRACTOR SHALL VERIFY THAT CURING COMPOUNDS AND/OR SEALERS ARE COMPATIBLE WITH ADHESIVE SPECIFIED FOR FLOOR FINISHES OR BE REMOVED PRIOR TO APPLYING FINISH.
14. REINFORCING SHALL NOT BE HEATED OR WELDED.
15. PROVIDE THE FOLLOWING CAST-IN-PLACE CONCRETE COVER FOR REINFORCEMENT, UNLESS NOTED OTHERWISE:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
a. NO. 6 THROUGH NO. 18 REBAR = 2 INCH
b. NO. 5 REBAR, W31, AND SMALLER = 1-1/2 INCH
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
a. SLABS, WALLS AND JOISTS
i. NO. 14 AND NO. 18 REBAR = 1-1/2 INCH
ii. NO. 11 BAR AND SMALLER = 3/4 INCH
b. BEAMS AND COLUMNS
i. PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS = 1-1/2 INCH

CONCRETE REINFORCEMENT EMBEDMENT LENGTHS
Table with columns for BAR SIZE, 3000 PSI, 4000 PSI, 4500 PSI, 5000 PSI and rows for STRAIGHT and HOOKED embedment lengths for various bar sizes (#3 to #11).

- A. EMBEDMENT LENGTH UNITS ARE INCHES. EMBEDMENT LENGTH VALUES ARE BASED ON ACI 318-19.
B. THE MINIMUM STRAIGHT EMBEDMENT LENGTH = 12". THE MINIMUM HOOKED EMBEDMENT LENGTH = LARGER OF 8*BAR DIAMETER OR 6".
C. HOOKS ARE 90-DEGREES.
D. EMBEDMENT LENGTHS ARE BASED ON NORMAL-WEIGHT CONCRETE. FOR LIGHT-WEIGHT CONCRETE MULTIPLY THE VALUES BY 1.33.
E. ALL EMBEDMENT LENGTH VALUES ARE BASED ON UNCOATED REBAR.
F. CASE "1" STRAIGHT VALUES CAN BE USED FOR REBAR BEING EMBEDDED WITH CLEAR SPACING ≥ TWO BAR DIAMETERS AND CLEAR COVER ≥ ONE BAR DIAMETER. FOR ALL OTHER STRAIGHT REBAR EMBEDMENTS USE CASE "2" VALUES.
G. CASE "3" HOOKED VALUES CAN BE USED FOR REBAR BEING EMBEDDED WITH SIDE COVER ≥ 2 1/2" AND WITH COVER ON BAR EXTENSION BEYOND HOOK ≥ 2". FOR ALL OTHER HOOKED REBAR EMBEDMENTS USE CASE "4" VALUES.
H. THE CONTRACTOR HAS THE OPTION TO UTILIZE PROVISIONS IN ACI 318 THAT ALLOW FOR REDUCTIONS IN EMBEDMENT LENGTH VALUES BASED ON CONFINEMENT REINFORCING. IF THE CONTRACTOR ELECTS TO UTILIZE ACI 318 REDUCTION VALUES, THEN THEY MUST SUBMIT CALCULATIONS FOR ENGINEER REVIEW.

CONCRETE REINFORCEMENT LAP SPICE LENGTHS
Table with columns for BAR SIZE, 3000 PSI CONCRETE, 4000 PSI CONCRETE, 4500 PSI CONCRETE, 5000 PSI CONCRETE and rows for CASE 1 and CASE 2 lap splice lengths for various bar sizes (#3 to #11).

- A. LAP SPICE LENGTH UNITS ARE INCHES. LAP SPICE LENGTH VALUES ARE BASED ON ACI 318-19.
B. ALL LAP SPICES ARE CLASS "B". UNLESS NOTED OTHERWISE, WHEN APPLICABLE, CLASS "A" LAP SPICES EQUAL THE VALUES ABOVE MULTIPLIED BY 0.77. NOTE THAT THE MINIMUM SPICE LENGTH = 12".
C. LAP SPICES ARE BASED ON NORMAL-WEIGHT CONCRETE. FOR LIGHT-WEIGHT CONCRETE MULTIPLY THE VALUES BY 1.33.
D. ALL LAP SPICE VALUES ARE BASED ON UNCOATED REBAR.
E. CASE "1" VALUES CAN BE USED FOR REBAR BEING SPICED WITH CLEAR SPACING ≥ TWO BAR DIAMETERS AND CLEAR COVER ≥ ONE BAR DIAMETER. FOR ALL OTHER REBAR SPICES USE CASE "2" VALUES.
F. "TOP" BARS ARE ALL HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS. FOR ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW THE BARS, USE THE "OTHER" VALUES.
G. THE CONTRACTOR HAS THE OPTION TO UTILIZE PROVISIONS IN ACI 318 THAT ALLOW FOR REDUCTIONS IN SPICE LENGTH VALUES BASED ON EXACT CLEAR COVER AND SPACING VALUES AND/OR TRANSVERSE REINFORCEMENT. IF THE CONTRACTOR ELECTS TO UTILIZE ACI 318 REDUCTION VALUES, THEN THEY MUST SUBMIT CALCULATIONS FOR ENGINEER REVIEW.

POST INSTALLED ANCHORS

- 1. INSTALL ANCHORS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CORE DRILLED ANCHOR HOLES ARE NOT PERMITTED.
3. PER ACI 318-19 CH. 17 ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
4. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
5. INSPECT AND TEST POST-INSTALLED ANCHORS AND DOWELS AS SPECIFIED IN ICC ESR.
6. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
7. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
8. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIED ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS THAT MAY INTERFERE WITH THE SPECIFIED LOCATION OF ANCHORS. IF AN INTERFERENCE IS FOUND TO EXIST, PROVIDE INFORMATION REGARDING ACTUAL LOCATION OF EXISTING BARS TO THE ENGINEER OF RECORD SO AN ALTERNATE ANCHOR ARRANGEMENT CAN BE DETERMINED, PERFORM INVESTIGATIVE MEASURES TO DETERMINE EXISTING REINFORCING BAR LOCATIONS AHEAD OF ACTUAL INSTALLATION OF ANCHOR.
9. POST-INSTALLED ANCHORS EXPOSED TO WEATHER THAT SUPPORT STRUCTURAL WALLS, FLOORS, COLUMNS OR BEAMS SHALL BE GALVANIZED.
10. POST-INSTALLED ANCHORS THAT SUPPORT A VENEER SHALL BE STAINLESS STEEL.
11. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS THAT HAVE BEEN SEALED BY ANOTHER LICENSED ENGINEER IN THE STATE OF THE PROJECT DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED PRODUCT. SUBSTITUTIONS SHALL HAVE AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND DRILLING METHODS.
12. TYPICAL ANCHORS AND SYSTEMS UNLESS NOTED OTHERWISE
A. MECHANICAL ANCHORS LOCATED IN CONCRETE SHALL BE HILTI KWIK BOLT T22 CONFORMING TO ICC ESR-4266 OR APPROVED EQUAL.
B. ADHESIVE ANCHORS LOCATED IN CONCRETE SHALL BE HILTI HIT-HY 200 WITH HIT-Z RODS CONFORMING TO ICC 3187 OR APPROVED EQUAL.
C. REINFORCING BARS ANCHORED IN CONCRETE SHALL BE HILTI HIT-HY 200 CONFORMING TO ICC ESR 3187 OR APPROVED EQUAL.
D. MECHANICAL ANCHORS LOCATED IN GROUTED MASONRY SHALL BE HILTI KWIK BOLT T22 CONFORMING TO ICC ESR-4561.
E. ADHESIVE ANCHORS LOCATED IN GROUTED OR UNGROUTED MASONRY SHALL BE HILTI HIT-HY270 CONFORMING TO ICC ESR-4143.
13. REFER TO PLAN NOTES, DETAILS, AND / OR SCHEDULES FOR DIAMETER OF ANCHOR RODS OR SIZE OF REBAR AND EMBEDMENT DEPTH REQUIRED.



CONSULTANTS:

Issued For CONSTRUCTION 04/29/2022 www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:



ASCEND ELEMENTS ASCEND ELEMENTS, INC 9172 INDUSTRIAL DR NE COVINGTON, GA 30014

CLIENT PROJECT NO: XXX-XXXXX-XX

Table with columns for NO., DATE, SUBJECT, REVISION OR ISSUE. Contains multiple empty rows for revisions.

A 04/29/22 FOR CONSTRUCTION - PKG 11C02

PROJECT MANAGER: R. FOX DESIGNED: H. FIRSTER CHECKED: D. LYKINS

PROJECT NO: 021-01975-00 PROJECT MANAGER: R. FOX DESIGNED: H. FIRSTER CHECKED: D. LYKINS

DRAWING TITLE: STRUCTURAL GENERAL NOTES

DRAWING NO: S-002

STRUCTURAL STEEL

- 1. DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE BUILDING CODE SPECIFIED EDITION OF THE FOLLOWING PUBLICATIONS, EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
- AISC STEEL CONSTRUCTION MANUAL
- AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
- AISC 341, SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
- RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
- AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
- AISC 326, DETAILING FOR STEEL CONSTRUCTION
- AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE D1.1, D1.3 & D1.6
- OSHA - CFR TITLE 29 PART 1926 SUBPART R - STEEL ERECTION

- 2. CONTRACTOR SHALL SUBMIT NAME AND CONTACT INFORMATION OF FABRICATOR, SUB-FABRICATORS, ENGINEERS, DETAILER, ERECTOR AND SPECIAL INSPECTORS WITH BID PER THE STRUCTURAL STEEL SPECIFICATION SECTION. CONTRACTOR SHALL SCHEDULE THE STRUCTURAL STEEL PRE-DETAILING MEETING WITHIN 2 BUSINESS DAYS AFTER BID AWARD. THIS MEETING MUST BE COMPLETED A MINIMUM OF 5 BUSINESS DAYS BEFORE THE FIRST SHOP DRAWING SUBMITTAL IS SENT FOR REVIEW. SHOP DRAWINGS SUBMITTED PRIOR TO THIS MEETING WILL BE REJECTED AND RETURNED WITHOUT REVIEW.

- 3. CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT COMPLETELY DETAILED ON THE DRAWINGS SHALL BE DELEGATED TO, AND DESIGNED BY, THE FABRICATOR'S ENGINEER LICENSED IN THE STATE OF THE PROJECT. STANDARD, ASCE TABULATED CONNECTIONS SHALL BE USED WHERE POSSIBLE.
4. IN COMPLIANCE WITH AISC'S CODE OF STANDARD PRACTICE FOR CONNECTION 3 FOR DELEGATED CONNECTION DESIGN, THE FABRICATOR SHALL SUBMIT IN A TIMELY MANNER REPRESENTATIVE SAMPLES OF THE REQUIRED SUBSTANTIATING CONNECTION INFORMATION TO THE ENGINEER OF RECORD PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS. AT THE TIME OF SHOP DRAWING SUBMITTAL, THE FABRICATOR'S ENGINEER CONFIRM IN WRITING, AS A PART OF THE SUBSTANTIATING CONNECTION INFORMATION, THAT THE SHOP DRAWINGS SUBMITTED FOR APPROVAL PROPERLY INCORPORATE THE CONNECTION DESIGNS.

- 5. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
- WIDE FLANGE AND WT SHAPES: ASTM A992
- S/ST SHAPES, CHANNELS, ANGLES, & PLATES: ASTM A36
- SMOOTH ROD/THREADED ROD: ASTM A36
- HSS, RECTANGULAR OR SQUARE: ASTM A500 GR B 46 KSI
- HSS, ROUND: ASTM A500 GR B 42 KSI
- STEEL PIPE: ASTM A53, GR B
- ANCHOR RODS: ASTM F1554 GR 55 WITH WELDABILITY SUPPLEMENT S1
- HIGH STRENGTH BOLTS: ASTM F3125 GR A325
- TWIST OFF TENSION CONTROL BOLTS: ASTM F3125 GR F1882 FOR A325 BOLTS
- HARDENED WASHERS: ASTM F436 TYPE 1
- HEAVY HEX NUTS: ASTM A563 GR A
- ROLLED STEEL FLOOR PLATE: ASTM A786
- SHEAR CONNECTORS AND HEADED STUDS: ASTM A108, GR 1010 TO 1020
- WELDING ELECTRODES: AWS AS 1 OR AS 5 E70XX

- 6. CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE STRUCTURAL DRAWINGS. FORCES SHOWN ON THE PLANS ARE ASD UNFACTORED. WHERE FORCES ARE NOT SHOWN OR THE STEEL CONNECTIONS ARE NOT SPECIFICALLY DETAILED, USE THE FOLLOWING:
A. NON-COMPOSITE FRAMED BEAM CONNECTIONS SHALL DEVELOP 50% OF THE UNIFORM LOAD CAPACITY FOR LATERALLY SUPPORTED BEAMS FOR THE GIVEN MEMBER SIZE, SPAN LENGTH AND GRADE.
B. COMPOSITE FRAMED BEAM CONNECTIONS SHALL DEVELOP 75% OF THE UNIFORM LOAD CAPACITY FOR LATERALLY SUPPORTED BEAMS FOR THE GIVEN MEMBER SIZE, SPAN LENGTH AND GRADE.
C. HORIZONTAL AND VERTICAL BRACING CONNECTIONS SHALL DEVELOP 50% OF THE GROSS TENSION CAPACITY FOR THE GIVEN MEMBER GRADE.
D. HANGER CONNECTIONS SHALL DEVELOP 100% OF THE GROSS TENSION CAPACITY FOR THE GIVEN MEMBER GRADE.
E. SPLICES:
a. BEAM SPLICES SHALL DEVELOP THE FOLLOWING FOR THE GIVEN MEMBER GRADE:
- MOMENT SPLICES: 100% OF THE GROSS FLEXURAL AND SHEAR CAPACITY
- SHEAR SPLICES: 100% OF THE GROSS SHEAR CAPACITY

- 7. SEQUENCE DRIVEN SHARED CONNECTIONS WILL NOT BE PERMITTED AND WILL BE UNSAFE DURING THE CONNECTION PROCESS UNDER CERTAIN CONDITIONS. PROVIDE STAGGERED CLIP ANGLES, ERECTION SEATS ON BOTH SIDES OF COLUMN WEBS, OR SHEAR TAB TYPE CONNECTIONS IN COMPLIANCE WITH OSHA 1926 SUBPART R TO ALLOW FOR MEMBERS TO BE INSTALLED FROM EITHER DIRECTION REGARDLESS OF SEQUENCE.
8. IF SPLICE LOCATIONS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS, COORDINATE SPLICE LOCATIONS WITH ENGINEER OF RECORD PRIOR TO FABRICATION.
9. CONTRACTOR SHALL BEGIN FABRICATION ONLY AFTER SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER OF RECORD, MARKED AS "PROCESS", AND RETURNED.
10. GROUT SHALL BE NON-METALLIC, SHRINK RESISTANT AND CONFORM TO ASTM C1107 AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 5000 PSI. GROUT UNDER BASE PLATES SHALL BE ONE OF THE FOLLOWING:
- SIKKA GROUT 212 AS MANUFACTURED BY SIKKA CORPORATION
- EUCOLID NS GROUT
- LAM CONSTRUCTION CHEMICALS' CRYSTEX NON-SHRINK GROUT
- WR MEADOWS 588 GROUT
- DAYTON SUPERIOR HIGH PERFORMANCE
- MASTER BUILDERS MASTERFLOW 928 GROUT
- APPROVED EQUAL

- 11. ALL SHOP CONNECTIONS SHALL BE WELDED OR BOLTED. FIELD CONNECTIONS SHALL BE BOLTED WHERE POSSIBLE.
12. BEAM CONNECTIONS SHALL DEVELOP A MINIMUM STRENGTH OF 10 KIPS [ASD/LRFD] AND CONSIST OF A MINIMUM OF TWO 3/4" DIAMETER BOLTS.
13. DOUBLE CLIP ANGLES SHALL BE USED FOR BIDDING. ALTERNATIVE FRAMING CONNECTIONS (SHEAR TAB, SINGLE ANGLES, ETC.) MAY BE SUBMITTED FOR REVIEW. THERE IS NO GUARANTEE THAT ALTERNATIVE CONNECTIONS WILL BE APPROVED.
14. CONNECTION ANGLE SHALL BE 5/16" MINIMUM THICKNESS, UNLESS NOTED OTHERWISE.
15. GUSSET PLATES AND SHEAR TABS SHALL BE 3/8" MINIMUM THICKNESS, UNLESS NOTED OTHERWISE.
16. UNLESS NOTED OTHERWISE, MINIMUM BOLT SIZE IS 3/4" DIAMETER GRADE A325N. INSTALL HIGH STRENGTH BEARING BOLTS TO A SHUG TIGHT CONDITION AS DEFINED BY AISC. LOCK WASHERS AND LOCK NUTS ARE STRICTLY PROHIBITED. GRADE A490 BOLTS ARE ACCEPTABLE WHEN REQUIRED FOR HIGHER LOAD CONDITIONS. DO NOT USE THE SAME DIAMETER OF GRADE A325 AND A490 BOLTS ON THE PROJECT.
17. UNLESS NOTED OTHERWISE, PROVIDE PRETENSIONED GRADE A325N BOLTS WHERE THE FOLLOWING CONDITIONS OCCUR: COLUMN SPLICES, BRACING CONNECTIONS, HANGERS, CONNECTIONS IN STRUCTURES WITH CRANES OVER 5 TON CAPACITY, CONNECTIONS FOR SUPPORTS OF RUNNING MACHINERY OR OTHER SOURCES OF IMPACT AND OTHER CONNECTIONS IDENTIFIED ON THE DRAWINGS. PRETENSIONED BOLTS SHALL BE INSTALLED USING TURN-OF-THE-NUT TIGHTENING, DIRECT TENSION INDICATORS, OR GRADE F1852 TWIST OFF TYPE BOLTS. PER AISC REQUIREMENTS, GRADE F2280 TWIST OFF TYPE BOLTS ARE ACCEPTABLE WHEN REQUIRED FOR HIGHER LOAD CONDITIONS. DO NOT USE THE SAME DIAMETER OF GRADE A325 AND A490 BOLTS ON THE PROJECT.
18. UNLESS NOTED OTHERWISE, PROVIDE SLIP CRITICAL GRADE A325SC BOLTS, USING CLASS "A" SURFACE VALUES (CLEAN MILL SCALE) AT ALL AREAS WHERE SLIP/GAGE IS OBJECTIONABLE. BRACKETS, MOMENT CONNECTIONS, SLOTTED HOLES (WITH FORCE IN DIRECTION OF SLOT), OVERSIZED HOLES AND OTHER CONNECTIONS IDENTIFIED ON THE DRAWINGS. SLIP CRITICAL BOLTS SHALL BE INSTALLED USING TURN-OF-THE-NUT TIGHTENING, DIRECT TENSION INDICATORS, OR TWIST OFF TYPE BOLTS PER AISC REQUIREMENTS. GRADE A490SC BOLTS ARE ACCEPTABLE WHEN REQUIRED FOR HIGHER LOAD CONDITIONS. DO NOT USE THE SAME DIAMETER OF GRADE A325SC AND A490SC BOLTS ON THE PROJECT.
19. AT EXPOSED HSS AND PIPE MEMBER ENDS, PROVIDE 3/16" END PLATE WITH 1/8" MINIMUM SEAL WELD ALL AROUND, UNLESS A LARGER PLATE OR WELD IS INDICATED.
20. PROVIDE WEEP HOLE NEAR BOTTOM OF ALL CLOSED HSS AND PIPE MEMBERS.

- 20. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION METHODS AND PROCEDURES. COORDINATE WITH OWNER'S REPRESENTATIVE REGARDING ANY SPECIFIC REQUIREMENTS RELATED TO START POINT AND DIRECTION OF ERECTION SEQUENCING.
21. STEEL FABRICATION AND/OR ERECTION FOUND TO BE SUBSTANDARD IN ACCORDANCE WITH SPECIFIED TOLERANCES OR REFERENCED AISC STANDARDS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
22. ALL STEEL LOCATED BELOW GRADE SHALL BE ENCASED IN AT LEAST 3" OF CONCRETE OR PROVIDED WITH A MASTIC COATING. ACCEPTABLE MASTIC COATING PRODUCTS ARE SHERWIN-WILLIAMS TAR GUARD 869860 OR TNEMEC 46-465 COAL RESIN.
23. NO PART OF THE STRUCTURE MAY BE USED AS A OFF POINT DURING CONSTRUCTION UNLESS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR WITHOUT PRIOR WRITTEN PERMISSION OF THE ENGINEER OF RECORD.
24. NO FLAME CUTTING WILL BE ALLOWED IN THE SHOP OR THE FIELD WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD AND OWNER. THIS INCLUDES CUTTING OF STEEL, CORRECTING MISALIGNMENT AND ENLARGING OR ADDING HOLES. CUTS AND HOLES REQUIRED FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP.

- 25. WHERE HOLES ARE FOUND TO BE UNSATISFACTORY, INFORM ENGINEER OF RECORD AND UNLESS DIRECTED OTHERWISE, FIELD DRILL NEW CONFORMING HOLES AS REQUIRED. PLUG WELD AND GRIND SMOOTH ALL ABANDONED HOLES.
26. NO HANGING LOADS OR UTILITIES MAY BE SUPPORTED BY HORIZONTAL OR VERTICAL BRACING, JOIST BRIDGING, GIRTS, METAL DECK OR GRATING, UNLESS SHOWN ON THE DRAWINGS.
27. THE RE-ENTRANT CORNERS OF COPES, BLOCKOUTS, AND CUTS SHALL BE SHAPED TO A SMOOTH RADIUS.
28. BUILT UP MEMBERS SHALL HAVE STITCH PLATES COMPLYING WITH AISC REQUIREMENTS. TENSION MEMBERS SHALL HAVE AT LEAST ONE STITCH PLATE LOCATED AT MID-LENGTH AND BUILT UP COMPRESSION MEMBERS SHALL HAVE AT LEAST TWO STITCH PLATES LOCATED AT THIRD POINTS. ASSUME BUILT UP MEMBERS ARE COMPRESSION MEMBERS UNLESS NOTED OTHERWISE ON DRAWINGS.
29. PROVIDE FIRE WATCH PROTECTION ACCEPTABLE TO OWNER AND OWNER'S INSURANCE CARRIER DURING ALL FIELD OPERATIONS THAT INVOLVE WELDING OR AN OPEN FLAME.
30. PROVIDE SHELF ANGLES ON COLUMNS AS REQUIRED TO SUPPORT METAL DECK, STEEL GRATING AND/OR CHECKERED PLATE.
31. COMPOSITE STEEL BEAMS SHALL HAVE BENT PLATES AND OTHER ACCESSORIES WELDED SUCH THAT THEY DO NOT INTERFERE WITH THE INSTALLATION OF THE HEADED STUDS.

- 32. ALL GRATING SHALL BE ANCHORED TO STEEL FRAMING WITH APPROVED MECHANICAL GRATING FASTENERS AT A MAXIMUM SPACING OF 2'-0" WITH A MINIMUM OF ONE AT EACH GRATING PANEL CORNER AND A MINIMUM OF TWO AT INTERIOR SUPPORT BEAM.
33. PROVIDE 3/16" THICK BANDING PLATE, WELDED (SHOP OR FIELD) TO THE ENDS OF EACH BEARING BAR AT THE FOLLOWING LOCATIONS:
- EXPOSED OPEN ENDS OF GRATING.
- AT PENETRATIONS WHERE BEARING BARS ARE CUT.
34. ALL PROJECTED CORNERS, BURRS, AND EXPOSED EDGES SHALL BE GROUND SMOOTH.
35. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN THE OUTER PLY OF A CONNECTION. A PLATE WASHER OR AT LEAST 5/16" INCH THICKNESS WITH STANDARD HOLES SHALL BE INSTALLED OVER LONG SLOTTED HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

STEEL COATINGS

- 1. ALL EXISTING STEEL PAINT IS ASSUMED TO BE LEAD BASED. THEREFORE, DO NOT CUT, GRIND, DRILL, BURN OR WELD ON ANY PAINTED EXISTING STEEL WITHOUT PRIOR DOCUMENTED TESTING DATA FROM THE OWNERS REPRESENTATIVE. ALL PAINT WITHOUT DOCUMENTED TESTING DATA SHALL BE TESTED BY THE CONTRACTOR FOR LEAD CONTENT. ALL PAINT SUBSEQUENTLY IDENTIFIED AS LEAD BASED PAINT MUST BE PROPERLY ABATED BY THE CONTRACTOR PRIOR TO PERFORMING ANY OF THESE ACTIVITIES.
2. ALL STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH:
A. INTERIOR STEEL: SSPC-SP3 POWER TOOL CLEANING
B. EXTERIOR STEEL: SSPC-SP8 COMMERCIAL BLAST CLEANING
3. ALL INTERIOR STEEL SHALL BE EPOXY PAINTED.
4. ALL EXTERIOR STEEL SHALL BE:
A. GALVANIZED
5. IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 1.5 MILS. USE PRIMER WHICH PROVIDES FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES. COORDINATE COLOR WITH OWNER'S REPRESENTATIVE.
6. DO NOT PAINT:
A. CONTACT SURFACES AT SLIP CRITICAL CONNECTIONS.
B. WITHIN 2" OF FIELD WEBS.
C. WITHIN 2" OF WELDED SHEAR STUDS OR ENTIRE TOP FLANGE OF COMPOSITE BEAMS
D. SURFACES IN CONTACT WITH CONCRETE, GROUT OR MORTAR
E. STRUCTURAL STEEL TO RECEIVE FIREPROOFING. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIREPROOFING OF STRUCTURAL STEEL MEMBERS. PRIMERS COMPATIBLE WITH FIREPROOFING SHALL BE SUBMITTED AS AN ALTERNATE.
F. MEMBERS TO BE GALVANIZED

- 7. APPLY MASTIC COATING TO COLUMNS, BASE PLATES, ANCHOR RODS AND ANY OTHER STEEL ITEMS WHICH ARE BELOW GRADE AND EXPOSED TO BACKFILL. COATING SHALL BE SHERWIN WILLIAMS TAR GUARD 869860 OR TNEMEC 46-465 COAL TAR RESIN OR APPROVED EQUAL. SURFACE PREPARATION PER MANUFACTURER'S RECOMMENDATIONS
8. ANY STRUCTURAL STEEL COATING, WITH EXCEPTION OF GALVANIZING, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED. AFTER ERECTION, CLEAN AND PREPARE SURFACES PER SSPC-SP2 OR 3 AND APPLY A TOUCH-UP COAT OF SAME PRIMER AS USED FOR THE SHOP COAT TO ALL SCARRED, CHAFED, AND OTHER AREAS WHERE SHOP PRIMER HAS BEEN DAMAGED, AND TO ALL FIELD BOLTS, WELDS, AND ADJACENT AREAS LEFT UNPAINTED IN THE SHOP AND WHERE LACK OF SHOP PRIMER HAS ALLOWED RUST TO FORM. AREAS AROUND BOLT HEADS SHALL BE THOROUGHLY "BRUSHED-IN" TO INSURE ADEQUATE PAINT COVERAGE.
9. STRUCTURAL STEEL MEMBERS DESIGNATED AS GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 UNLESS NOTED OTHERWISE. PROVIDE VENT AND DRAIN HOLES IN ALL HSS OR CONFINED MEMBERS AS REQUIRED. AFTER ERECTION OF GALVANIZED MEMBERS APPLY A TOUCH-UP COAT OF GALVANIZING REPAIR PAINT, CONFORMING TO ASTM A780, APPLY TO ALL SCARRED, CHAFED, OTHER AREAS WHERE GALVANIZING HAS BEEN DAMAGED, AND TO ALL FIELD BOLTS AND WELDS. AREAS AROUND BOLT HEADS SHALL BE THOROUGHLY "BRUSHED-IN".
10. APPLY STRUCTURAL STEEL COATINGS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

METAL DECK

- 1. DESIGN, DETAILING, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE BUILDING CODE SPECIFIED EDITION OF THE FOLLOWING PUBLICATIONS, EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
- SDI MANUAL OF CONSTRUCTION OF STEEL DECK
- SDI CODE OF STANDARD PRACTICE
- OSHA - CFR TITLE 29 PART 1926
2. A SERVICE LEVEL CONSTRUCTION ALLOWANCE OF 20 PSF OR 150 PLF CONCENTRATED LIVE LOAD, IN ADDITION TO CONCRETE (WHERE CONCRETE IS SPECIFIED) AND DECK SELF WEIGHT, IS INCLUDED IN THE DESIGN OF THE STEEL DECK. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACTUAL CONSTRUCTION LOADING IS LESS THAN OR EQUAL TO THIS ALLOWANCE.
-----NO CONCENTRATED POINT OR LINE LOADS SHALL BE INDUCED ON METAL DECK-----
3. WHERE POSSIBLE, METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS, HOWEVER 2 SPANS ARE ACCEPTABLE. CONTACT ENGINEER OF RECORD FOR APPROVAL IF 1 SPAN IS REQUIRED BASED ON SITE CONDITIONS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. REFER TO SCHEDULE FOR ATTACHMENT REQUIREMENTS.
5. PROVIDE STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS AND OTHER ACCESSORIES AS REQUIRED. PROVIDED ACCESSORIES SHALL BE MINIMUM THICKNESS OF DECK GAGE SPECIFIED.
6. METAL ROOF DECK SHALL CONFORM TO ASTM A653 AND HAVE A ZINC COATING CONFIRMING TO ASTM A524 G90 (Z275).

ANCHOR RODS

- 1. ANCHOR RODS SHALL BE PROVIDED BY THE STRUCTURAL STEEL CONTRACTOR AND SET PLUMB AND VERTICAL BY THE FOUNDATION CONTRACTOR.
2. INSTALLATION OF ANCHOR RODS SHALL BE IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE.
3. THE FOUNDATION CONTRACTOR SHALL EMPLOY A LICENSED PROFESSIONAL SURVEYOR TO PROVIDE A DETAILED SURVEY OF BOTH THE ANCHOR LAYOUT AND THE FINAL ANCHOR ROD LOCATIONS. SURVEY AND MARK BY SCRIBING, THE COLUMN CENTERLINES BETWEEN ALL ANCHOR RODS.
4. THE FOUNDATION CONTRACTOR IS RESPONSIBLE FOR SETTING ANCHOR RODS AND SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO REQUIRED MODIFICATION DUE TO MISPLACED ANCHOR RODS.
5. THE FOUNDATION EXCAVATIONS SHALL BE DEWATERED AFTER EACH RAIN EVENT WHILE KEEPING THE ANCHOR RODS CLEAN AND PROTECTED AT ALL TIMES.

COLD FORM METAL FRAMING

- 1. ALL COLD-FORMED METAL FRAMING AND CONNECTIONS INCLUDING ANCHORAGE TO THE PRIMARY STRUCTURAL FRAME, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS AS A FORMAL SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. PROVIDE A SEALED LETTER CERTIFYING THAT THE INFORMATION SHOWN IN THE SUBMITTAL IS IN CONFORMANCE WITH THE DESIGN.
2. ALL COLD-FORMED METAL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI) AND THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
3. AS RECOMMENDED BY THE MANUFACTURER FOR THE COLD-FORMED METAL FRAMING, PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO: TRACKS, CLIPS, STIFFENERS, ANCHORS, FASTENING DEVICES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
4. COLD-FORMED METAL FRAMING AND CONNECTIONS, SHALL BE COATED PER ASTM A653 G60 AND SHALL COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE:
A. GAGE 12, 14 AND 16, ASTM A1003, TYPE H, WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
B. GAGE 18 AND 20, ASTM A1003, TYPE H, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.
5. COLD-FORMED METAL FRAMING MEMBERS SHALL NOT BE SPLICED WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.
6. COLD-FORMED METAL FRAMING CONSTRUCTION FOR NON-BEARING WALL SYSTEMS SHALL HAVE VERTICAL SLIP CONNECTIONS. DO NOT ATTACH MEMBERS TO THE STRUCTURE IN ANY WAY THAT WOULD PREVENT THE COLD-FORMED METAL FRAMING FROM DEFLECTING UNDER SUPERIMPOSED LOADS (CUMULATIVE U240 DEFLECTION OF STRUCTURAL FRAMING SYSTEM). THE VERTICAL SIDE CLIPS SHALL HAVE A RATED CAPACITY (BY THE MANUFACTURER) OF 2000 LBS (ASD) LATERAL LOAD RESISTANCE.
7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS, COMPLYING WITH COLD-FORMED STEEL ENGINEERS INSTITUTE (CFSEI), TECHNICAL NOTE F701-12, OR WELDING, COMPLYING WITH CFSEI F140-16.
8. ALL HANGING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN COLD-FORMED METAL FRAMING WORK. WELDING MAY ONLY BE USED ON 20 GAGE AND THICKER MEMBERS. ALL WELDS OF PAINTED COLD-FORMED METAL FRAMING SHALL BE TOUCHED UP WITH PAINT MATCHING THE PROPERTIES OF THE ADJACENT PAINTED SURFACES. ALL WELDS OF GALVANIZED COLD-FORMED METAL FRAMING SHALL BE TOUCHED UP WITH APPROVED ZINC-RICH PAINT.

MASONRY

- 1. THE FOLLOWING GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL UNREINFORCED AND REINFORCED CONCRETE MASONRY ELEMENTS AND STRUCTURES:
- ACI 530 / ASCE 5 / TMS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- ACI 530.1 / ASCE 6 / TMS 602, SPECIFICATION FOR MASONRY STRUCTURES
2. MASONRY COMPRESSIVE STRENGTH fm = 2,000 PSI MINIMUM. MATERIAL COMBINATIONS MAY BE CHOSEN BY ANY METHOD APPROVED BY THE SPECIFICATION. OWNER RESERVES THE RIGHT TO HAVE PRISMS ASSEMBLED IN THE FIELD AND TESTED FOR COMPLIANCE.
3. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C90. UNIT STRENGTH TO BE APPROPRIATE FOR SPECIFIED MASONRY COMPRESSIVE STRENGTH.
4. MORTAR SHALL BE PER ASTM C270 AND SHALL BE AT LEAST EQUAL TO THE UNIT COMPRESSIVE STRENGTH.
- PROVIDE TYPE "M" MORTAR, 2,500 PSI MINIMUM, AT ALL ABOVE AND BELOW GRADE LOAD BEARING MASONRY, REINFORCED WALLS AND MASONRY BOND BEAMS AND LINTELS.
- PROVIDE TYPE "S" MORTAR, 1,800 PSI MINIMUM, AT ALL ABOVE AND BELOW GRADE UNREINFORCED NON-LOAD BEARING MASONRY AND FOR ALL OTHER CONDITIONS.
5. GROUT SHALL BE PER ASTM C476 (COARSE OR FINE), 4,000 PSI MINIMUM. LIFT HEIGHTS DICTATED PER ACI 530.
6. REINFORCING BARS SHALL CONFORM TO ASTM A615. BARS SHALL BE GRADE 60 (DEFORMED). SUBMIT MASONRY REINFORCING SHOP DRAWINGS SHOWING ELEVATIONS OF ALL WALLS.
7. GROUT SOLID ALL MASONRY AND VOIDS BELOW GRADE.
8. PROVIDE 9 GA HORIZONTAL LADDER TYPE JOINT REINFORCING WITH 9 GA CROSS RODS AT EXACTLY 16" OC IN ALL WALLS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING, WATERPROOFING, INSULATION AND RELATED WALL MATERIALS AND DETAILS.
10. MASONRY SHALL BE LAID IN RUNNING BOND WITH FACE SHELL MORTAR BEDDING. PROVIDE MORTAR AT WEBS ADJACENT TO GROUTED CELLS.
11. INTERSECTING WALLS SHALL BE CONNECTED IN ACCORDANCE WITH ACI 530. PROVIDE DETAILS WITHIN MASONRY SUBMITTAL.
12. CONTROL JOINTS SHALL BE AS INDICATED ON DRAWINGS. WHERE NOT INDICATED, CONTROL JOINTS SHOULD BE PLACED SUCH THAT THE WALL PANEL LENGTH TO HEIGHT RATIO DOES NOT EXCEED 1.5, WITH THE SPACINGS NOT TO EXCEED 20'-0" ON CENTER. JOINTING ELEVATIONS SHALL BE SUBMITTED FOR REVIEW.
13. WHERE THERE IS ONLY ONE VERTICAL BAR IN A CMU CELL, PLACE BAR IN CENTER OF CELL, WHERE TWO BARS ARE REQUIRED, PLACE BARS AT OPPOSITE FLANGES 1/2" CLEAR FROM THE INSIDE FACE OF THE FLANGE, UNO.
14. AT VERTICAL PLATES WITH EMBEDDED HEADED STUDS, GROUT SOLID A MINIMUM OF ONE FULL COURSE ABOVE AND BELOW STUDS AND A MINIMUM OF ONE FULL CELL TO EITHER SIDE OF THE STUDS.
15. AT HORIZONTAL PLATES WITH EMBEDDED HEADED STUDS, GROUT SOLID A MINIMUM OF ONE FULL COURSE BELOW STUDS AND A MINIMUM OF ONE FULL CELL TO EITHER SIDE OF THE STUDS.
16. AT MASONRY LINTELS, GROUT SOLID ALL CELLS DIRECTLY BELOW LINTEL. END BEARING TO BOTTOM OF WALL.
17. AT STEEL LINTELS, GROUT COURSE SOLID ABOVE LINTEL AND GROUT SOLID ALL CELLS DIRECTLY BELOW LINTEL END BEARING TO BOTTOM OF WALL.
18. BOND BEAMS:
A. SHALL BE GROUTED SOLID
B. CORNER BARS SHALL LAP AND MATCH HORIZONTAL REINFORCEMENT. REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.

DESIGN CRITERIA

- MEZZANINE FLOOR DEAD LOADS
- GRATING: 10.0 PSF
- MPSE: 10.0 PSF
- FIRE PROTECTION: 5.0 PSF
- FRAMING SELF WEIGHT: 25.0 PSF
- TOTAL: 50.0 PSF
MEZZANINE UNIFORM LIVE LOADS
- WALKWAYS AND ELEVATED PLATFORMS: 60 PSF
- ALLOWANCE FOR MAINTENANCE HOIST: 40 PSF
URT EQUIPMENT ROOMS DEAD LOADS
- 2 1/2" CONC ON 1 1/2" VLR METAL DECK (4" TOTAL): 50.0 PSF
- FRAMING SELF WEIGHT: 10.0 PSF
- SUPER IMPOSED DEAD LOADS: 5.0 PSF
- URT EQUIPMENT ROOMS LIVE LOADS: 60.0 PSF

- OFFICE FLOOR DEAD LOADS
- 3 1/2" CONC ON 1 1/2" VLR METAL DECK (5" TOTAL): 56.0 PSF
- MPSE AND FIRE PROTECTION: 14.0 PSF
- FRAMING SELF WEIGHT: 10.0 PSF
- TOTAL: 80.0 PSF
OFFICE FLOOR UNIFORM LIVE LOADS
- OFFICE: 50 PSF
- PARTITION: 20 PSF
- RAIN LIVE LOAD 20 PSF (REDUCIBLE BY CODE)

- SNOW LOAD
- SNOW LOAD IMPORTANCE FACTOR, I_s: 1.00
- GROUND SNOW LOAD, P_g: 5 PSF
- FLAT ROOF SNOW LOAD, P_f: 4 PSF
- MINIMUM SNOW LOAD, P_m: 5 PSF
- RAIN-ON-SNOW SURCHARGE: 9 PSF
- SNOW EXPOSURE FACTOR, C_e: 1.0
- THERMAL FACTOR, C_t: 1.0
- SNOW DRIFT LOADS AND SLIDING SNOW LOADS IN ACCORDANCE WITH ASCE 7

- WIND LOADS (FOR TANKS AND EXTERIOR STRUCTURES)
- RISK CATEGORY: C
- BASIC WIND SPEED, V_{ult}: 119 MPH
- EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT, GC_{pi} +/-: 0.18
- COMPONENTS AND CLADDING WIND PRESSURE: SEE TABLE

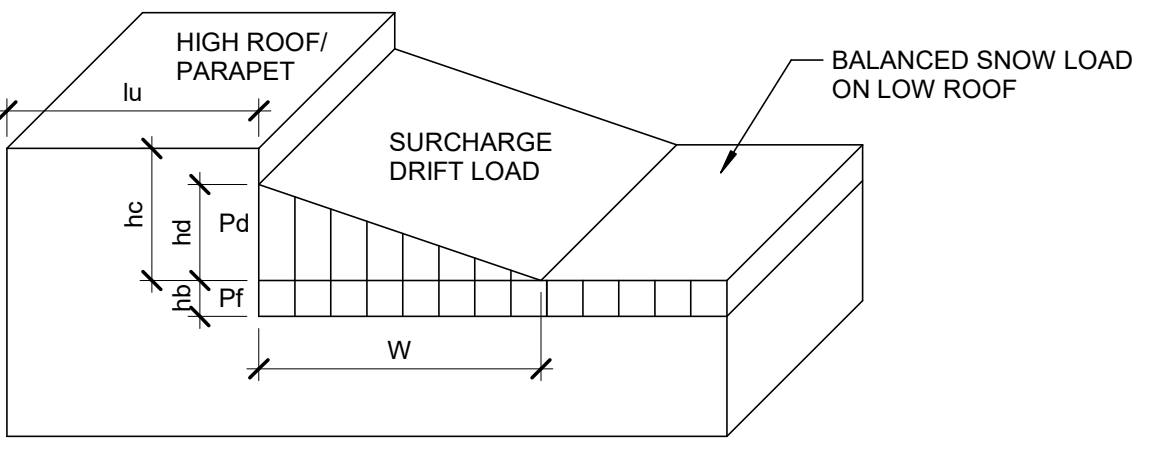
- THE MAXIMUM DEFLECTIONS OF THE STRUCTURE SHALL BE WITHIN THE FOLLOWING:
- TYPICAL FLOOR FRAMING: SPAN / 240
- I LIVE LOADS AND DEAD LOADS: SPAN / 360
- II LIVE LOADS: SPAN / 180
- TYPICAL ROOF FRAMING: SPAN / 240
- I LIVE LOADS AND DEAD LOADS: SPAN / 120
- II LIVE LOADS: SPAN / 120
- TYPICAL WALL GIRT FRAMING: SPAN/600 OR 0.3 INCHES MAX
- WIND LOADS (10 YEAR MR): LATERAL FLOOR TO FLOOR DISPLACEMENT (10 YEAR MR): H FLOOR / 200
- METAL SIDING AND GIRTS

- SLAB-ON-GRADE LIVE LOADS:
- GENERAL: X PSF
- WHEEL LOADS: SEE DIAGRAM

- SEISMIC LOADS (FOR BUILDING AND BOBTREE PLATFORM STRUCTURES)
- RISK CATEGORY: I
- SEISMIC IMPORTANCE FACTOR, I_e: 1.00
- SITE CLASS: C
- SEISMIC DESIGN CATEGORY: B
- MAPPED SPECTRAL ACCELERATION:
- I SPECTRAL RESPONSE COEFFICIENT, S_s: 0.18g
- II SPECTRAL RESPONSE COEFFICIENT, S₁: 0.082g
- DESIGN BASE SHEAR, V = C_s * W: X X KIPS
- I SPECTRAL RESPONSE COEFFICIENT, SDS: 0.156g
- II SPECTRAL RESPONSE COEFFICIENT, SD1: 0.182g
- BASIC SEISMIC FORCE RESISTING SYSTEM(S): SPECIFICALLY DETAILED FOR STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

- SEISMIC LOADS (FOR OFFICE STRUCTURE) & OTHER URT EQUIPMENT ROOMS
- RISK CATEGORY: II
- SEISMIC IMPORTANCE FACTOR, I_e: 1.00
- SITE CLASS: C
- SEISMIC DESIGN CATEGORY: B
- MAPPED SPECTRAL ACCELERATION:
- I SPECTRAL RESPONSE COEFFICIENT, S_s: 0.18g
- II SPECTRAL RESPONSE COEFFICIENT, S₁: 0.082g
- DESIGN SPECTRAL ACCELERATION:
- I SPECTRAL RESPONSE COEFFICIENT, SDS: 0.156g
- II SPECTRAL RESPONSE COEFFICIENT, SD1: 0.182g
- BASIC SEISMIC FORCE RESISTING SYSTEM(S): ORDINARY REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION FACTOR, R: 2.0
- SEISMIC RESPONSE COEFFICIENT(S), C_s: 0.078
- DESIGN BASE SHEAR, V = C_s * W: X X KIPS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

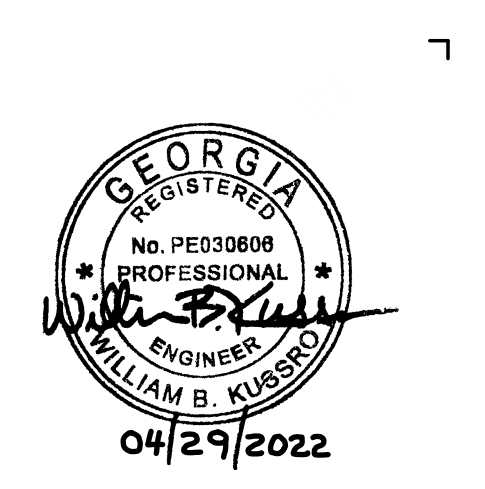
- SEISMIC LOADS (FOR TANK FARM AND EXTERIOR STRUCTURES)
- RISK CATEGORY: II
- SEISMIC IMPORTANCE FACTOR, I_e: 1.50
- SITE CLASS: C
- SEISMIC DESIGN CATEGORY: B
- MAPPED SPECTRAL ACCELERATION:
- I SPECTRAL RESPONSE COEFFICIENT, S_s: 0.18g
- II SPECTRAL RESPONSE COEFFICIENT, S₁: 0.082g
- DESIGN SPECTRAL ACCELERATION:
- I SPECTRAL RESPONSE COEFFICIENT, SDS: 0.156g
- II SPECTRAL RESPONSE COEFFICIENT, SD1: 0.182g
- BASIC SEISMIC FORCE RESISTING SYSTEM(S): REFER TO THE DRAWINGS FOR IDENTIFIED ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEMS
- RESPONSE MODIFICATION FACTOR, R: 1.25
- SEISMIC RESPONSE COEFFICIENT(S), C_s: 0.187
- DESIGN BASE SHEAR, V = C_s * W: X X KIPS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE



CONSULTANTS:



SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:
BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:
ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA 30014

Table with columns for CLIENT PROJECT NO., DATE, SUBJECT, and REVISION OR ISSUE. Includes a grid for revisions.

CLIENT PROJECT NO: XXX-XXXX-XX
A 04/29/22 FOR CONSTRUCTION - PKG 11C02
NO. DATE SUBJECT
REVISION OR ISSUE
SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77375
T. (419) 255-3830
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSITER
CHECKED: D. LYKINS
DRAWING TITLE:
STRUCTURAL GENERAL NOTES
DRAWING NO:
S-003

2018 IBC - CHAPTER 17
SPECIAL INSPECTIONS AND TESTS

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY...	-	X	ACI 318, Ch. 20, 26.2, 26.3.	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAX... C. INSPECT ALL OTHER WELDS	-	X	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED... B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318, CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE...	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION...	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING...	X	-	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: 26.9	-
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...	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2 (b)	-

FOR SI: 1 INCH = 25.4 MM

A. WHERE APPLICABLE, SEE 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 THE WORK.

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X

TMS 402/602-16 MASONRY INSTITUTE OF AMERICAN BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES
CHAPTER 3 'QUALITY AND CONSTRUCTION'

MASONRY TABLE 3.1.1 - LEVEL A QUALITY ASSURANCE

MINIMUM VERIFICATION	
PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION	

TABLE 3.1.2 - LEVEL B QUALITY ASSURANCE

MINIMUM TESTS	
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5.B.1.b.3 FOR SELF-CONSOLIDATING GROUT	
VERIFICATION OF Fm AND FAAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4.B PRIOR TO CONSTRUCTION, EXCEPT WHERE...	

MINIMUM SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY (a)		REFERENCE FOR CRITERIA
	CONTINUOUS	PERIODIC	
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X	ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR B. CONSTRUCTION OF MORTAR JOINTS C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES E. PRESTRESSING TECHNIQUE F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		X	ART. 2.1, 2.6 A ART. 3.3 B ART. 2.4 B, 2.4 H ART. 3.4, 3.6 A ART. 3.6 B ART. 2.1 C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS E. CONSTRUCTION OF MORTAR JOINTS		X	ART. 3.2 D, 3.2 F SEC. 6.1 ART. 2.4, 3.4 SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 ART. 3.2 E, 3.4, 3.6 A
4. VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION C. WELDING OF REINFORCEMENT D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		X	ART. 3.3 F SEC. 1.2.1(e), 6.1.4.3, 6.2.1 SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)
5. OBSERVE PREPARATIONS OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

a - FREQUENCY REFER TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE

b - REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

c - REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

TABLE 3.1.3 - LEVEL C QUALITY ASSURANCE

MINIMUM TESTS	
VERIFICATION OF Fm AND FAAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4.B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQ. FT (465 SQ. M) DURING CONSTRUCTION	
VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE	
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATIONS ARTICLE 1.5.B.1.b.3 FOR SELF-CONSOLIDATING GROUT	

MINIMUM SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY (a)		REFERENCE FOR CRITERIA
	CONTINUOUS	PERIODIC	
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X	ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS D. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES E. GROUT SPACE PRIOR TO GROUTING F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION I. WELDING REINFORCEMENT J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) K. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE L. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS M. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		X	ART. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G 1.b SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 ART. 3.2 E 3.4, 3.6 A ART. 3.2 D, 3.2 F ART. 3.5, 3.6 C ART. 3.3 F SEC. 1.2.1(e), 6.1.4.3, 6.2.1 SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b) ART. 1.8 C, 1.8 D ART. 3.6 B ART. 3.3 B.9, 3.3 F.1.b ART. 2.1 C.1
3. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE

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QA/QC - 2017 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM (IF FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY))	O	O
• JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKLING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)		
• JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKLING (TACK WELD QUALITY AND LOCATION)	P	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AND ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKLING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT (a) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED, STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.	O	

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, O)	O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUF ANCHORS	T	O
	O	O
	P	P

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY ARC STRIKES K-AREA (a) WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (b) BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER NO PROHIBITED WELD HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR (a) WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (76MM) OF THE WELD (b) AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS	P	P

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OF REJECTION OF BOLTED CONNECTIONS	P	P

AMERICAN NATIONAL STANDARDS INSTITUTE/STEEL DECK INSTITUTE
QA/QC - 2017 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

TABLE 1.1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT

TASK	QC	QA
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	PERFORM
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT

TASK	QC	QA
A. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM	PERFORM
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N/A	PERFORM
C. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM	PERFORM

TABLE 1.3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING

TASK	QC	QA
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	OBSERVE	OBSERVE
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE	OBSERVE
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	OBSERVE
D. CHECK WELDING EQUIPMENT	PERFORM	PERFORM

TABLE 1.4. INSPECTION OR EXECUTION TASKS DURING WELDING

TASK	QC	QA
A. USE OF QUALIFIED WELDERS	OBSERVE	OBSERVE
B. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	OBSERVE
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	OBSERVE
D. WPS FOLLOWED	PERFORM	PERFORM

TABLE 1.5. INSPECTION OR EXECUTION TASKS AFTER WELDING

TASK	QC	QA
A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	PERFORM	PERFORM
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	PERFORM
C. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM	PERFORM

TABLE 1.6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING

TASK	QC	QA
A. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	OBSERVE	OBSERVE
C. PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE	OBSERVE

TABLE 1.7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING

TASK	QC	QA
A. FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	OBSERVE
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	OBSERVE

TABLE 1.8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING

TASK	QC	QA
A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	PERFORM	PERFORM
B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	PERFORM	PERFORM
C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	PERFORM	PERFORM
D. VERIFY REPAIR ACTIVITIES	PERFORM	PERFORM
E. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM	PERFORM



CONSULTANTS:

Issued For CONSTRUCTION
04/29/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:

Professional Engineer
No. 52326
Professional Engineer
WILLIAM B. KUSNER
04/29/2022

PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

A	04/29/22	FOR CONSTRUCTION - PKG 11C02
NO.	DATE	SUBJECT
REVISION OR ISSUE		

SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77364
T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
2018 IBC SPECIAL INSPECTIONS

DRAWING NO:
S-005

CONSULTANTS:

Issued For
CONSTRUCTION
04/29/2022
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SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

NO.	DATE	SUBJECT
A	04/29/22	FOR CONSTRUCTION - PKG 11C02

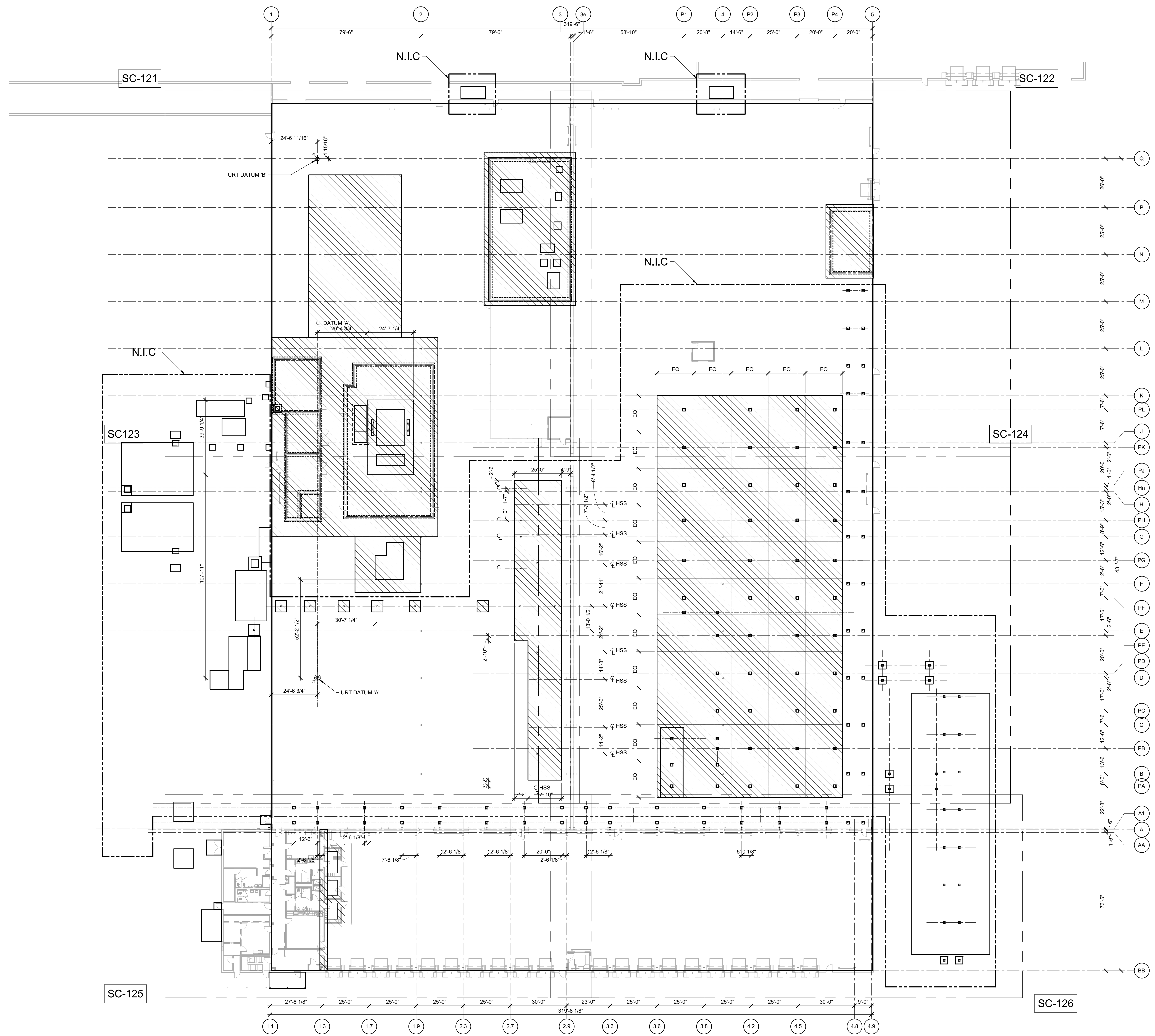
SSOE, Inc.
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T: (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
OVERALL SLAB PLAN

DRAWING NO:
SC-120

- SLAB PLAN NOTES:**
- SEE S-000 DRAWING SERIES FOR DESIGN CRITERIA, SYMBOLS, ABBREVIATIONS AND GENERAL NOTES TYPICAL UNLESS NOTED OTHERWISE
 - SEE SC-500 DRAWING SERIES FOR SLAB TYPICAL DETAILS UNLESS NOTED OTHERWISE
 - UNDERGROUND UTILITIES SHOWN FOR REFERENCE ONLY REFER TO CIVIL DWGS FOR SITE UTILITIES.
 - SEE DETAIL 7/SC-500 FOR TURNED DOWN EDGE AT EXTERIOR EQUIPMENT PADS AND FOOTINGS TYPICAL
 - 1'-0" THK MAT FOUNDATION. SEE 12/SC-300 FOR REINF T/MAT EL - SEE PLAN
 - EXISTING FACILITY FFE = 778.83' +/- = 100'-0" (REFERENCE)
 - REFER TO DWG SS-116 URT FRAMING PLAN AND ARCH DWGS FOR DIMENSIONS TO CMU WALLS



OVERALL SLAB PLAN
SCALE: 3/64" = 1'-0"

Issued For
CONSTRUCTION
04/29/2022
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PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

A 04/29/22 FOR CONSTRUCTION - PKG 11C02

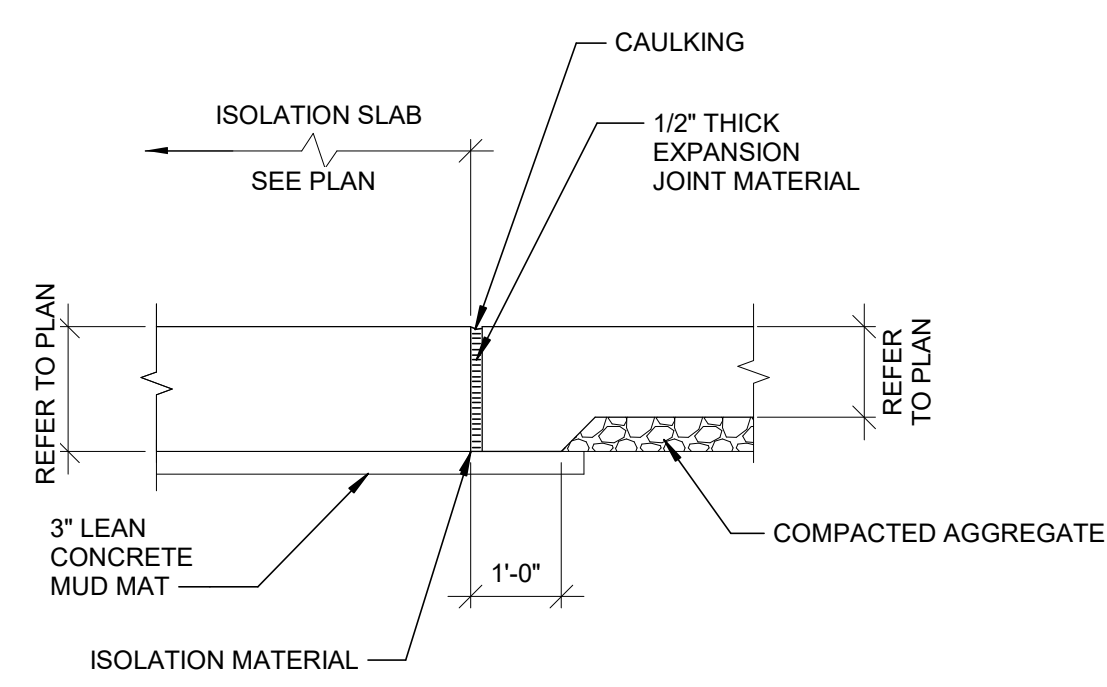
NO. | DATE | SUBJECT
REVISION OR ISSUE

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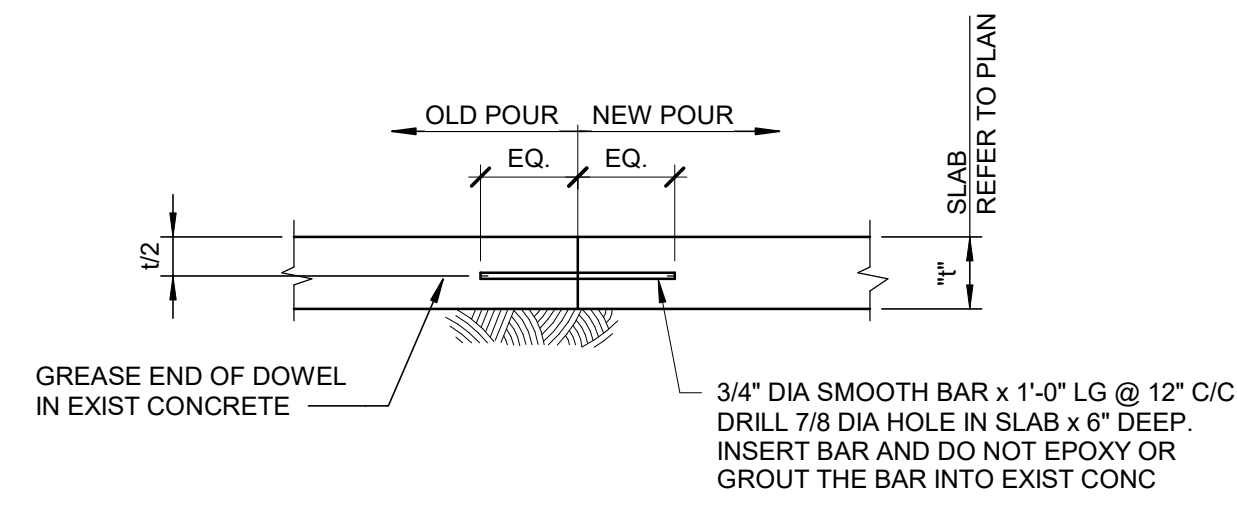
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
TYPICAL FOUNDATION DETAILS

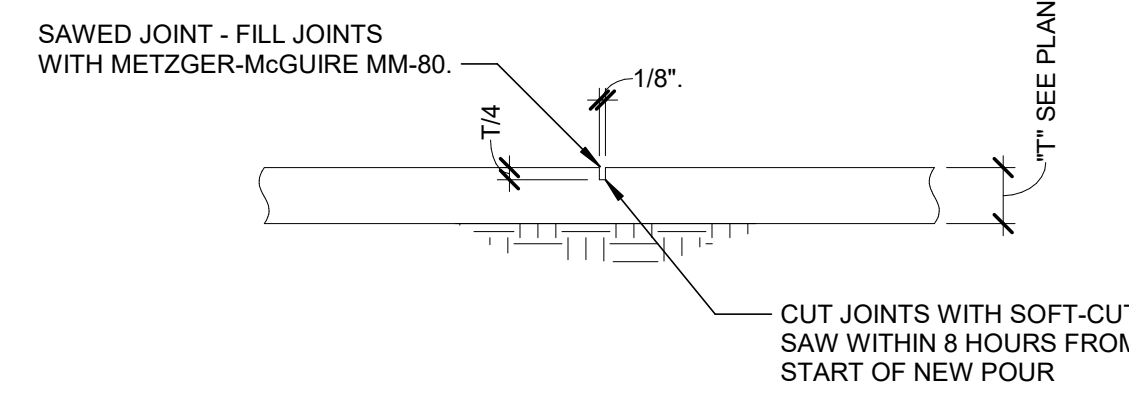
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SC-500



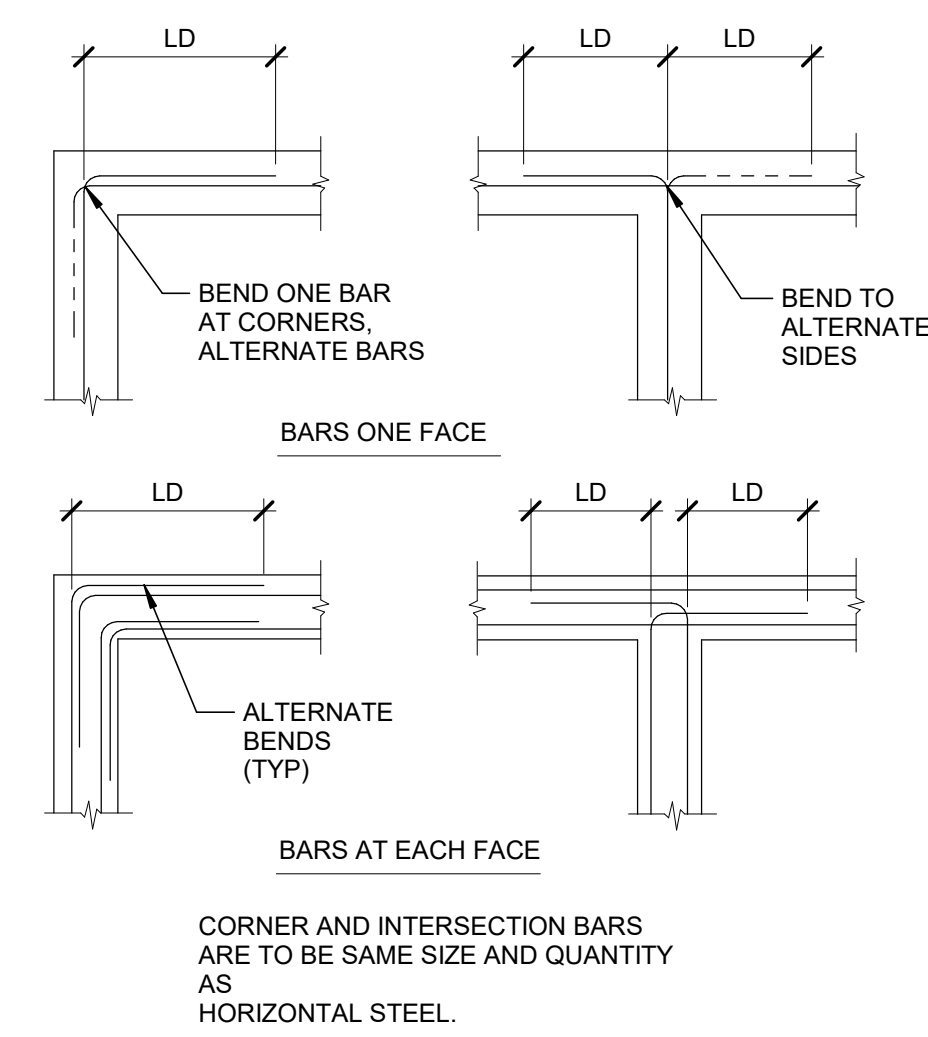
1 TYPICAL SLAB ISOLATION JOINT DETAIL
SC-500 SCALE: 1/2" = 1'-0"



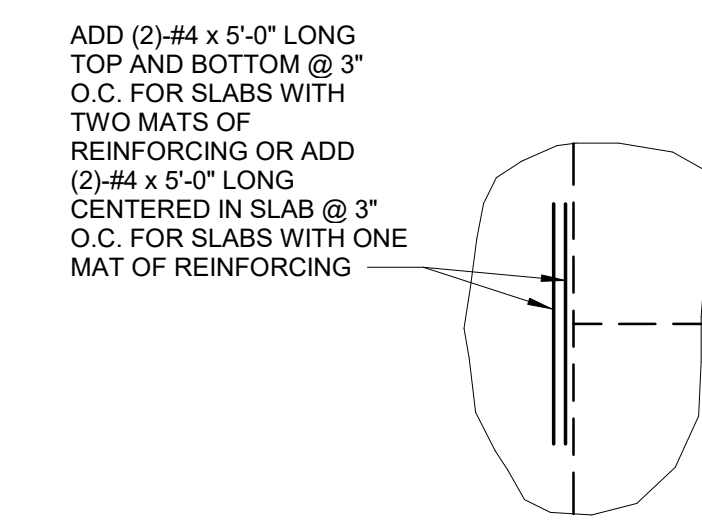
2 TYPICAL SLAB CONSTRUCTION JOINT SECTION
SC-500 SCALE: 1/2" = 1'-0"



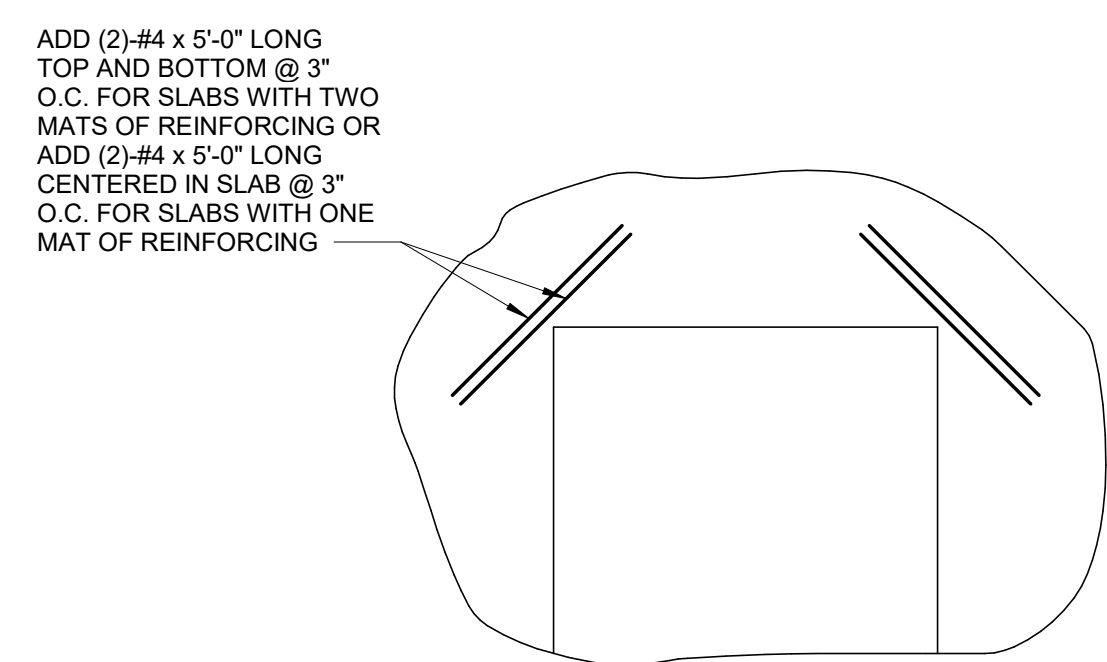
3 TYPICAL SLAB CONTROL JOINT 'CJ'
SC-500 SCALE: 1/2" = 1'-0"



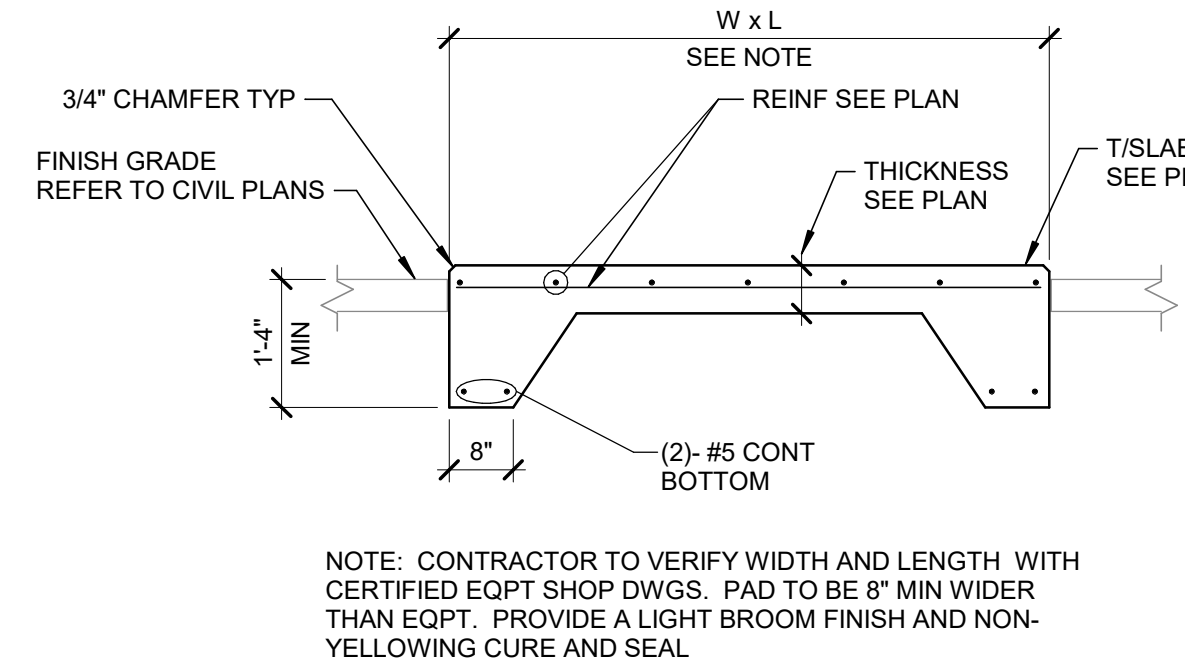
4 TYPICAL CONCRETE WALLS & FOOTINGS AT CORNERS & INTERSECTIONS
SC-500 SCALE: 3/4" = 1'-0"



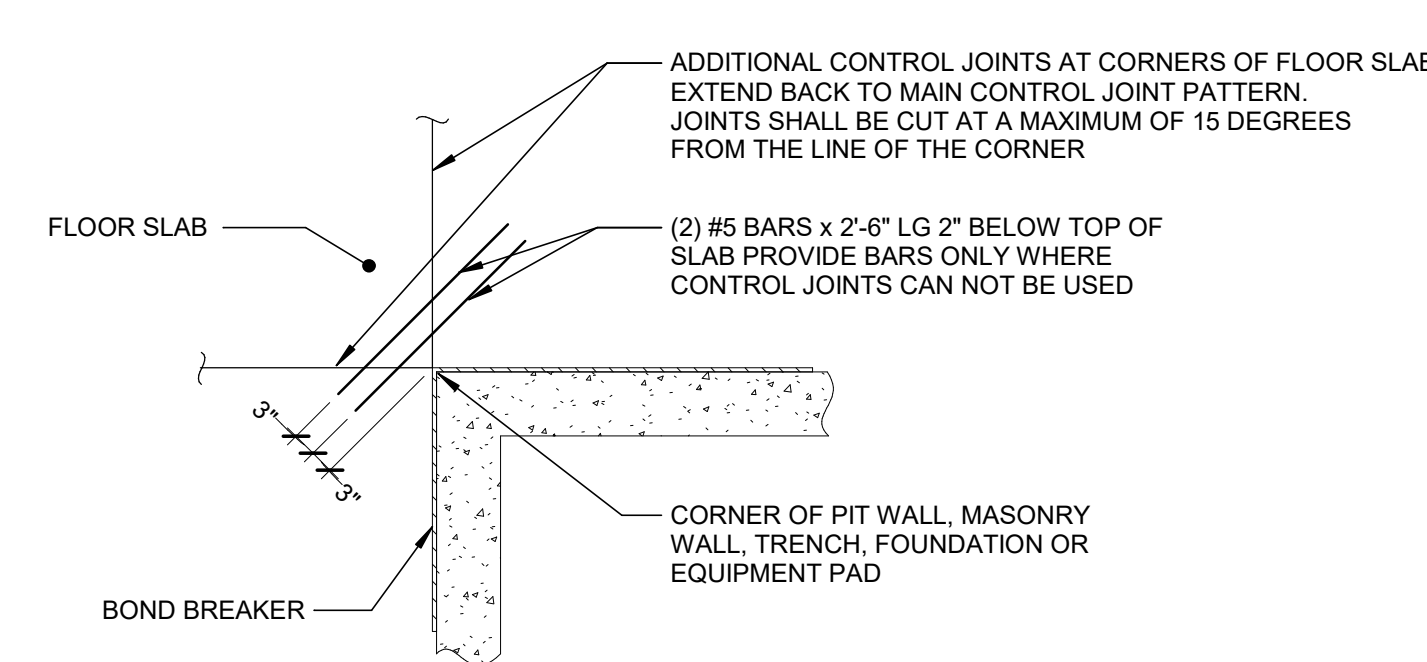
5 TYPICAL REINFORCING IN SLAB @ CONTROL JOINT 'T' INTERSECTION
SC-500 SCALE: 1/4" = 1'-0"



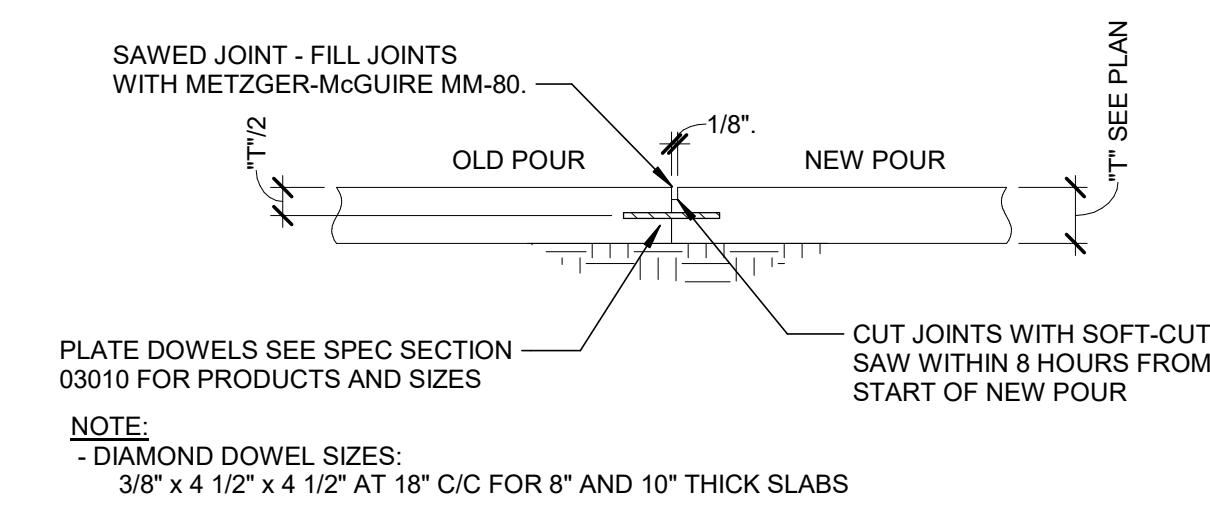
6 TYPICAL SLAB AT REENTRANT CORNERS
SC-500 SCALE: 1/4" = 1'-0"



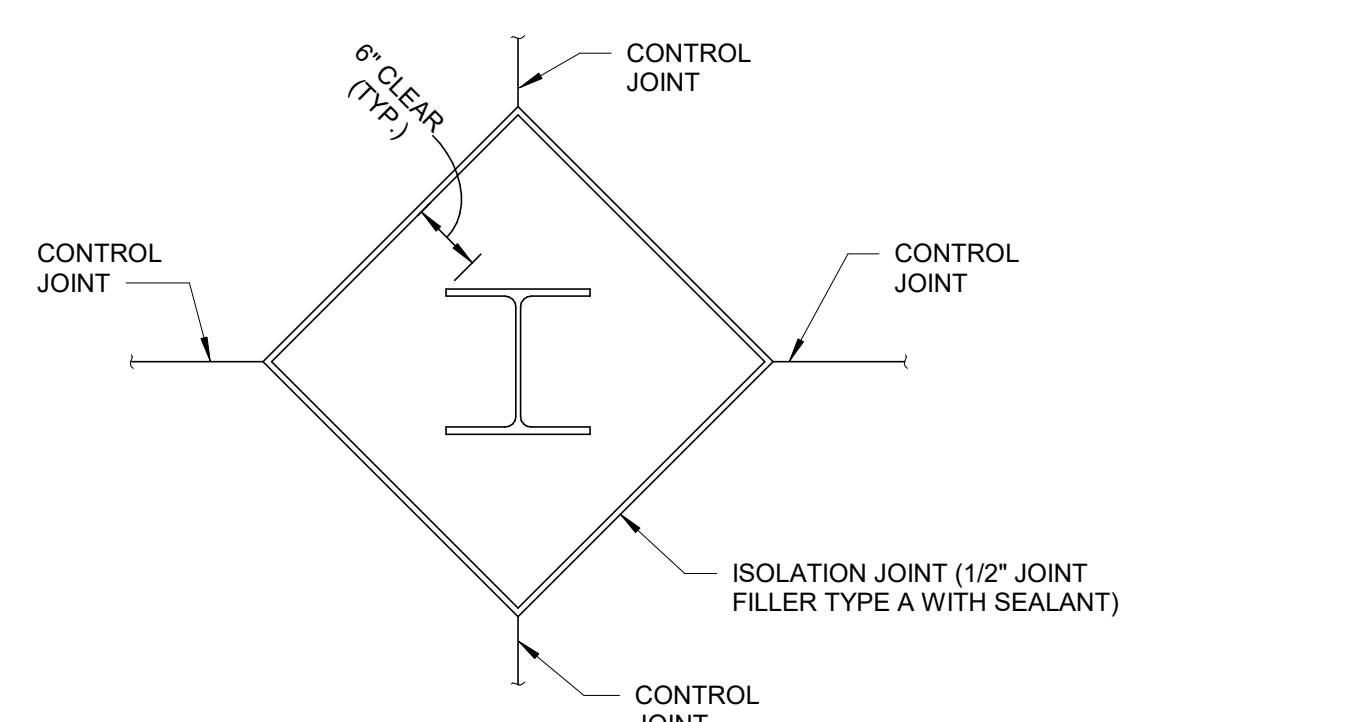
7 TYPICAL EQUIPMENT PAD DETAIL
SC-500 SCALE: 1/2" = 1'-0"



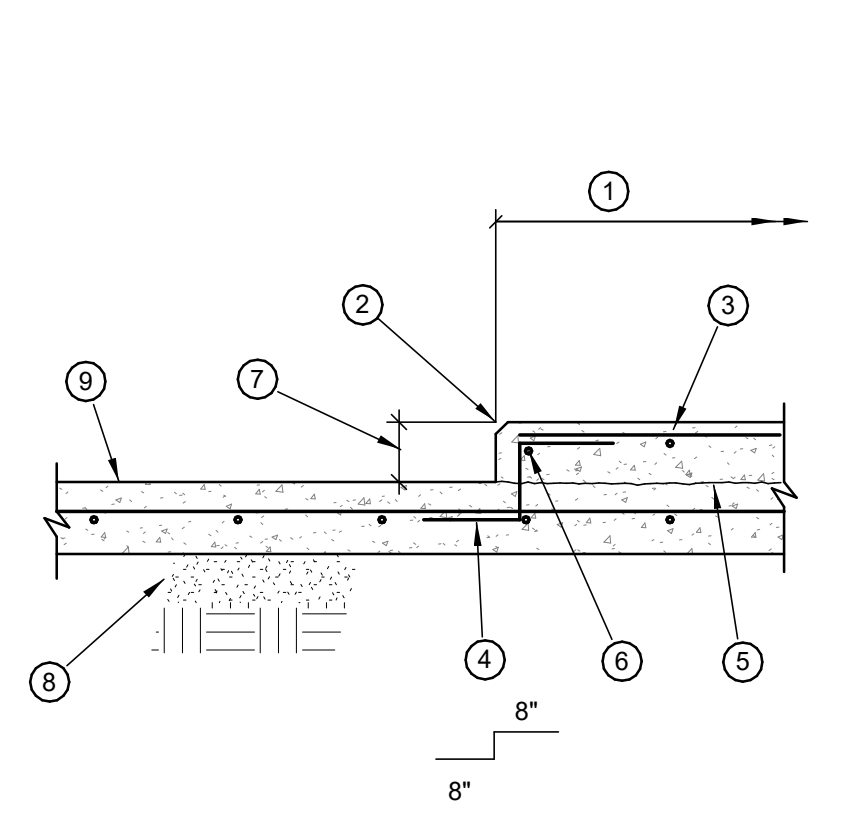
8 SLAB CONTROL JOINT AT CORNERS
SC-500 SCALE: 1/2" = 1'-0"



9 SLAB CONSTRUCTION JOINT
SC-500 SCALE: 1/2" = 1'-0"

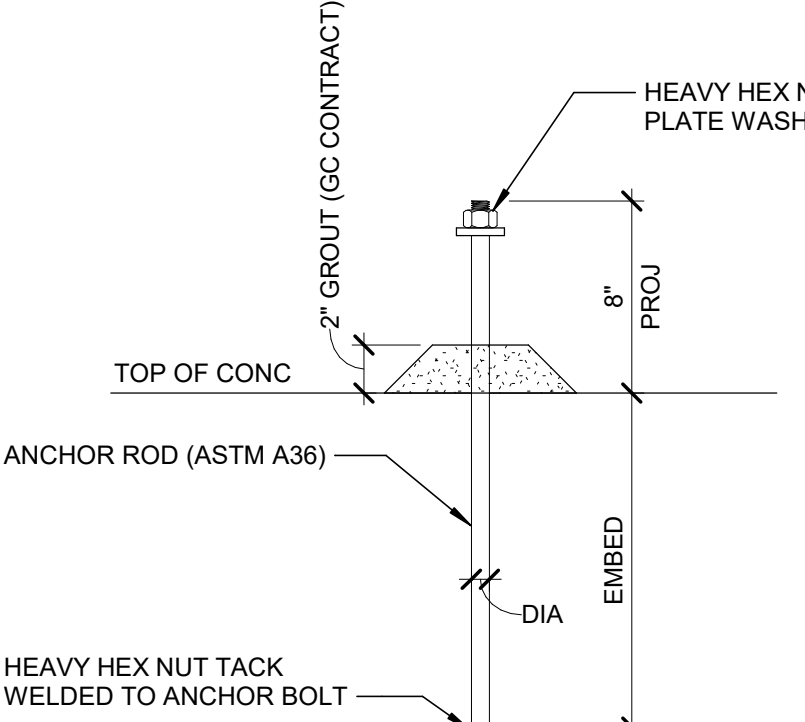


10 SLAB CONTROL JOINTS AT INTERIOR COLUMNS
SC-500 SCALE: 3/4" = 1'-0"



11 EQUIP PAD ON SLAB ON GRADE
SC-500 SCALE: 1/2" = 1'-0"

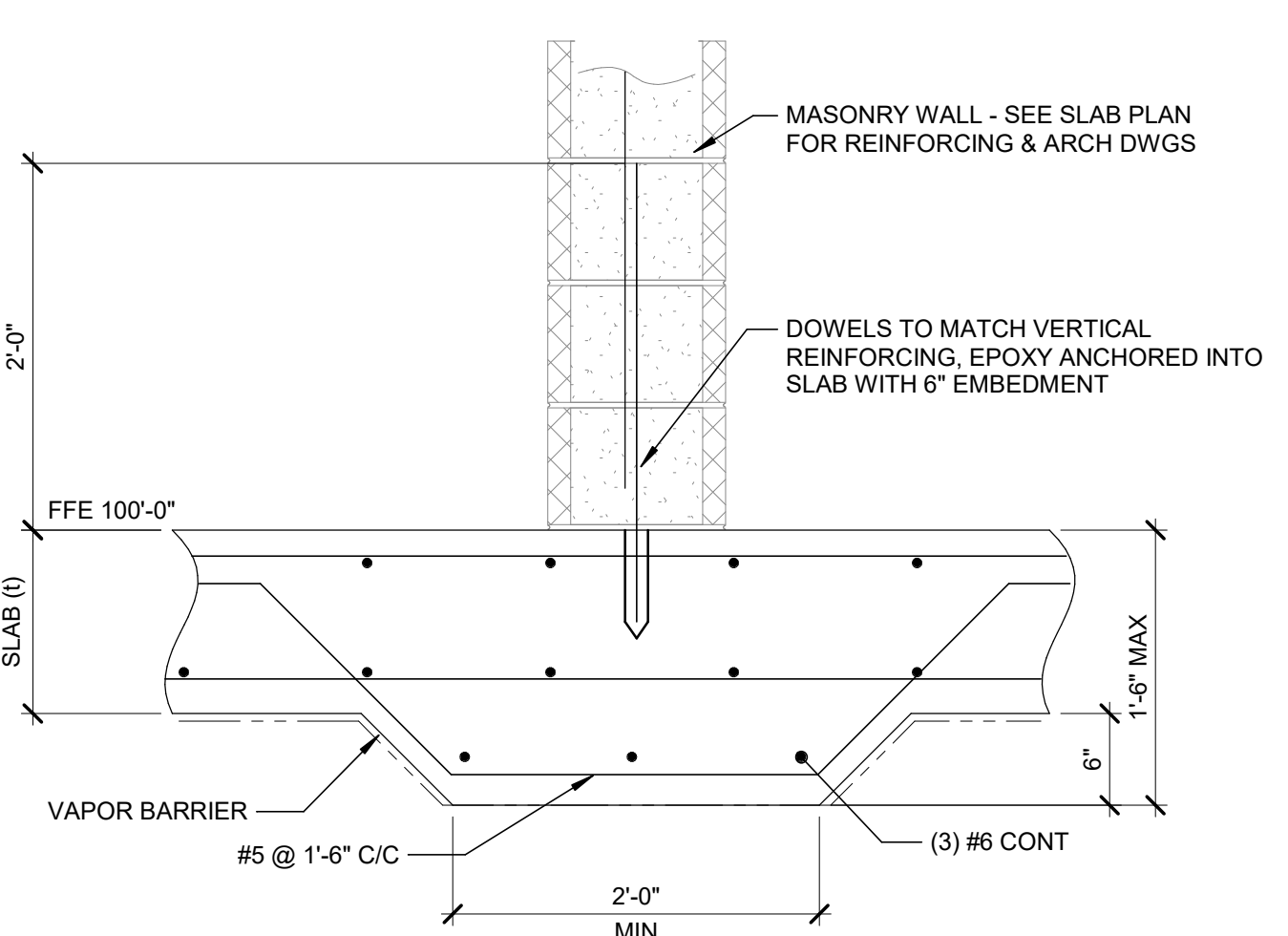
- 1 PAD SIZE: 1'-0" EACH WAY LARGER THAN EQUIPMENT BASE OR SEE PLAN FOR SIZE.
- 2 CHAMFER ALL SIDES 3/4" TYP.
- 3 #4 AT 12" ON EA WAY, 1" CLEAR FROM TOP.
- 4 #4 TIE @ 12" ON CENTER AROUND PERIMETER AND ALL OPENINGS. MAY SUBSTITUTE LENTON FORM SAVERS.
- 5 CONSTRUCTION JOINT, ROUGHEN SURFACE TO 1/4 AMPLITUDE AND APPLY BONDING AGENT.
- 6 #4 CONT. AROUND PERIMETER.
- 7 3-1/2" TYPICAL UNLESS NOTED OTHERWISE ON PLAN.
- 8 SEE GENERAL NOTES FOR UNDERSLAB REQUIREMENTS.
- 9 SLAB ON GRADE AND REINFORCING, RE: PLAN.



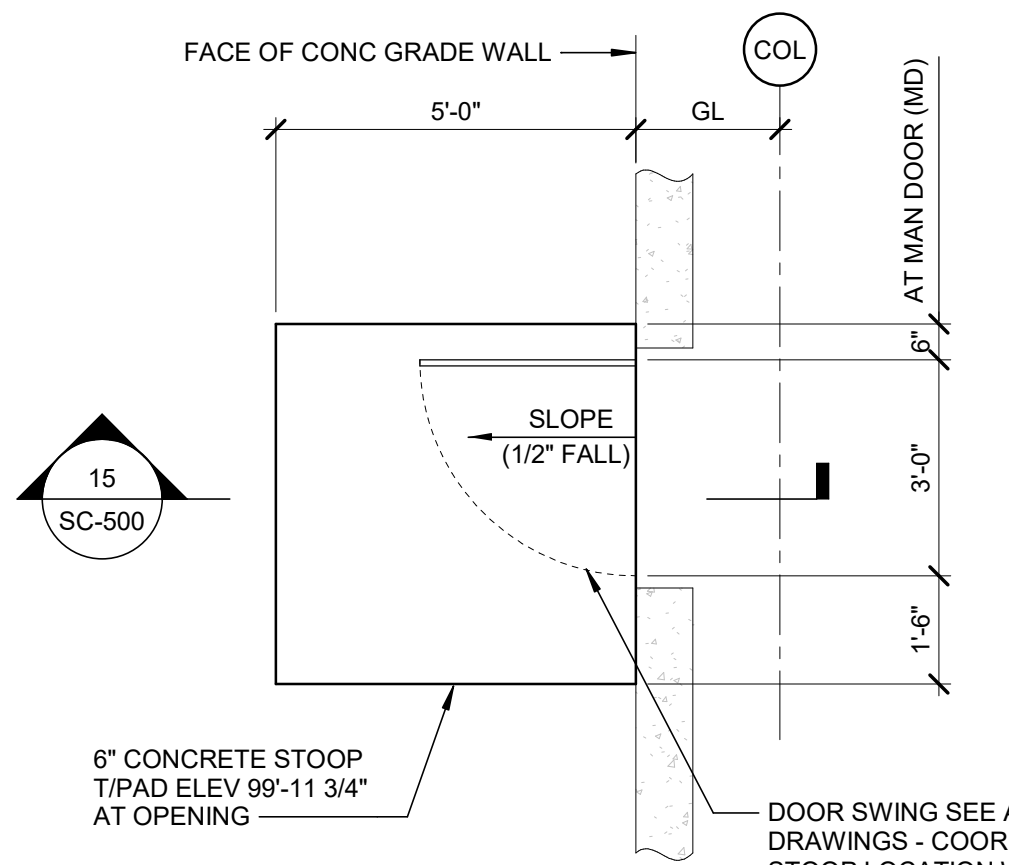
12 TYPICAL ANCHOR BOLT DETAIL
SC-500 SCALE: 1 1/2" = 1'-0"

ANCHOR BOLT SCHEDULE				
DIA (ø)	EMBED	RECOMMENDED BASE PLATE HOLE ø	MINIMUM WASHER SIZE	REMARKS
3/4"	1'-3"	1 5/16"	1/4" x 2"	PROVIDE 9" EMBED IN 12" THICK FOOTINGS
1"	1'-6"	1 13/16"	3/8" x 3"	PROVIDE 2'-0" EMBEDMENT & GRADE 55 FOR COLUMN TYPE D
1 1/2"	1'-11"	2 5/16"	1/2" x 3 1/2"	REFER TO CRANE COLUMN ANCHOR BOLT DETAIL

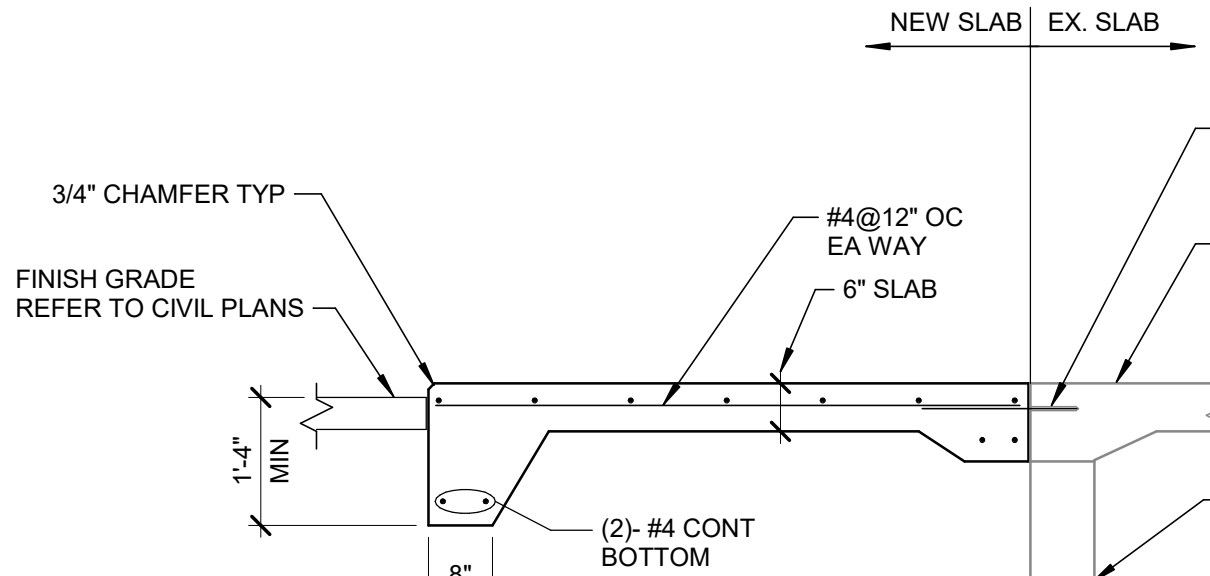
ANCHOR BOLTS SHALL BE SUPPLIED BY SS CONTRACT AND SET BY FOUNDATION CONTRACTOR. FOUNDATION CONTRACTOR SHALL INSTALL ANCHOR BOLTS BASED ON APPROVED SETTING PLAN PREPARED BY SS CONTRACT.



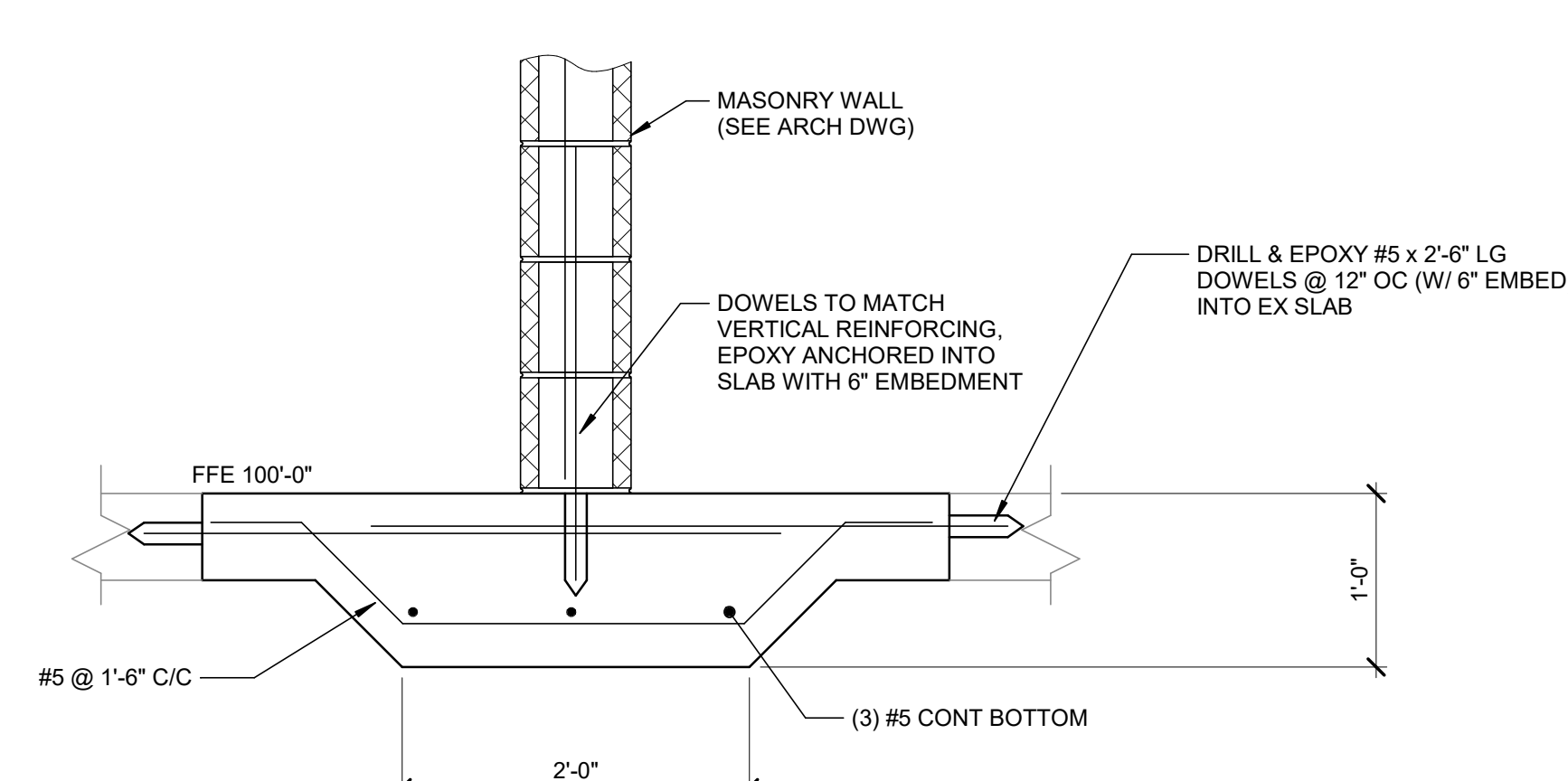
13 THICKENED SLAB UNDER INTERIOR CMU WALL (URT AREA)
SC-500 SCALE: 1" = 1'-0"



14 EXTERIOR MAN DOOR STOOP PLAN
SC-500 SCALE: 3/8" = 1'-0"



15 TYPICAL PAD AT MAN DOOR
SC-500 SCALE: 1/2" = 1'-0"



16 THICKENED SLAB UNDER INTERIOR CMU WALL (OFFICE AREA)
SC-125 SCALE: 1" = 1'-0"

CONSULTANTS:

Issued For
CONSTRUCTION
04/29/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

**BROWNFIELD
MODIFICATIONS**

CLIENT INFORMATION:

**ASCEND
ELEMENTS**
ASCEND
ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

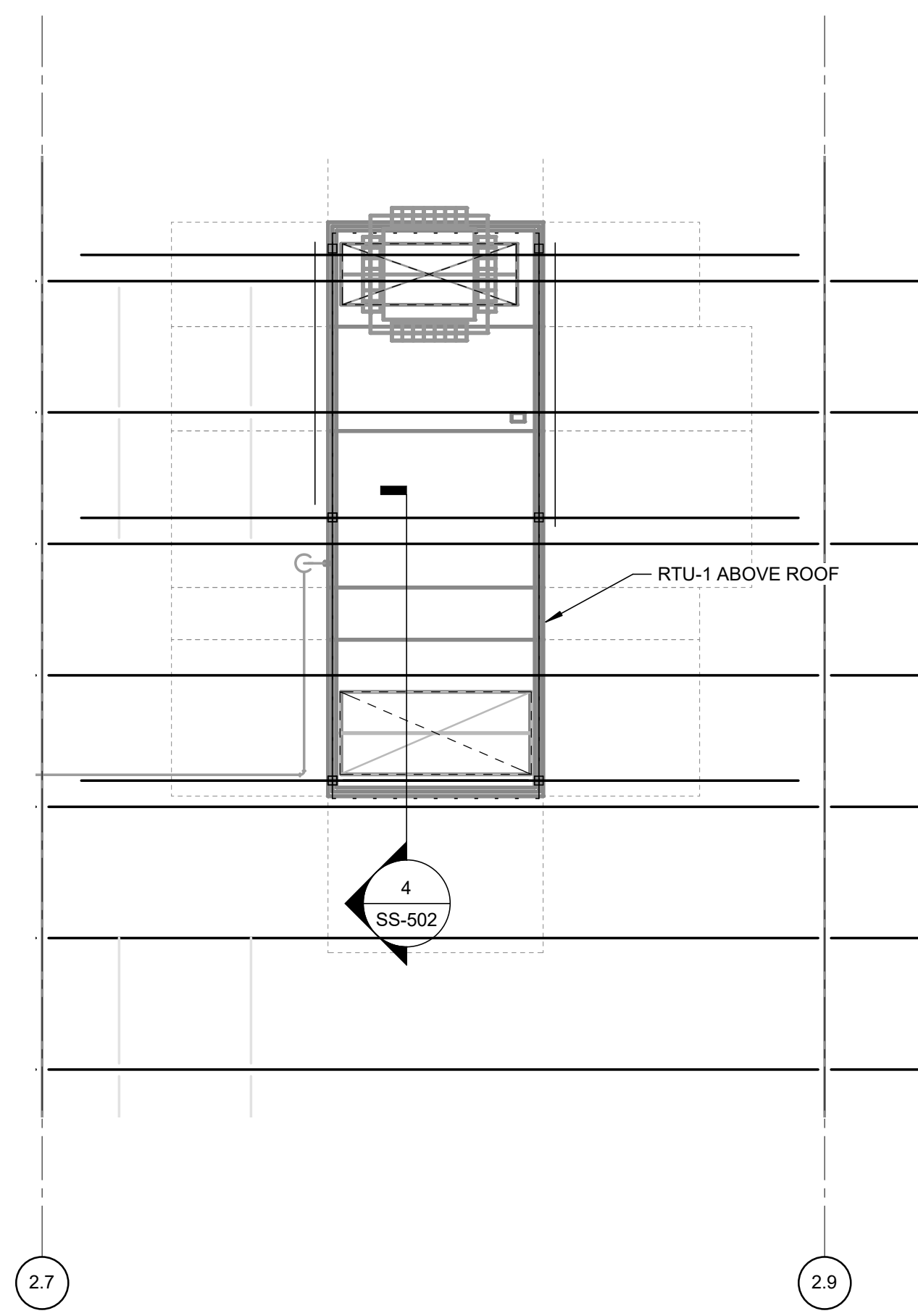
NO.	DATE	SUBJECT
A	04/29/22	FOR CONSTRUCTION - PKG 11C02

SSOE, Inc.
1001 Madison Avenue
Atlanta, GA 30304
T: (419) 255-3830

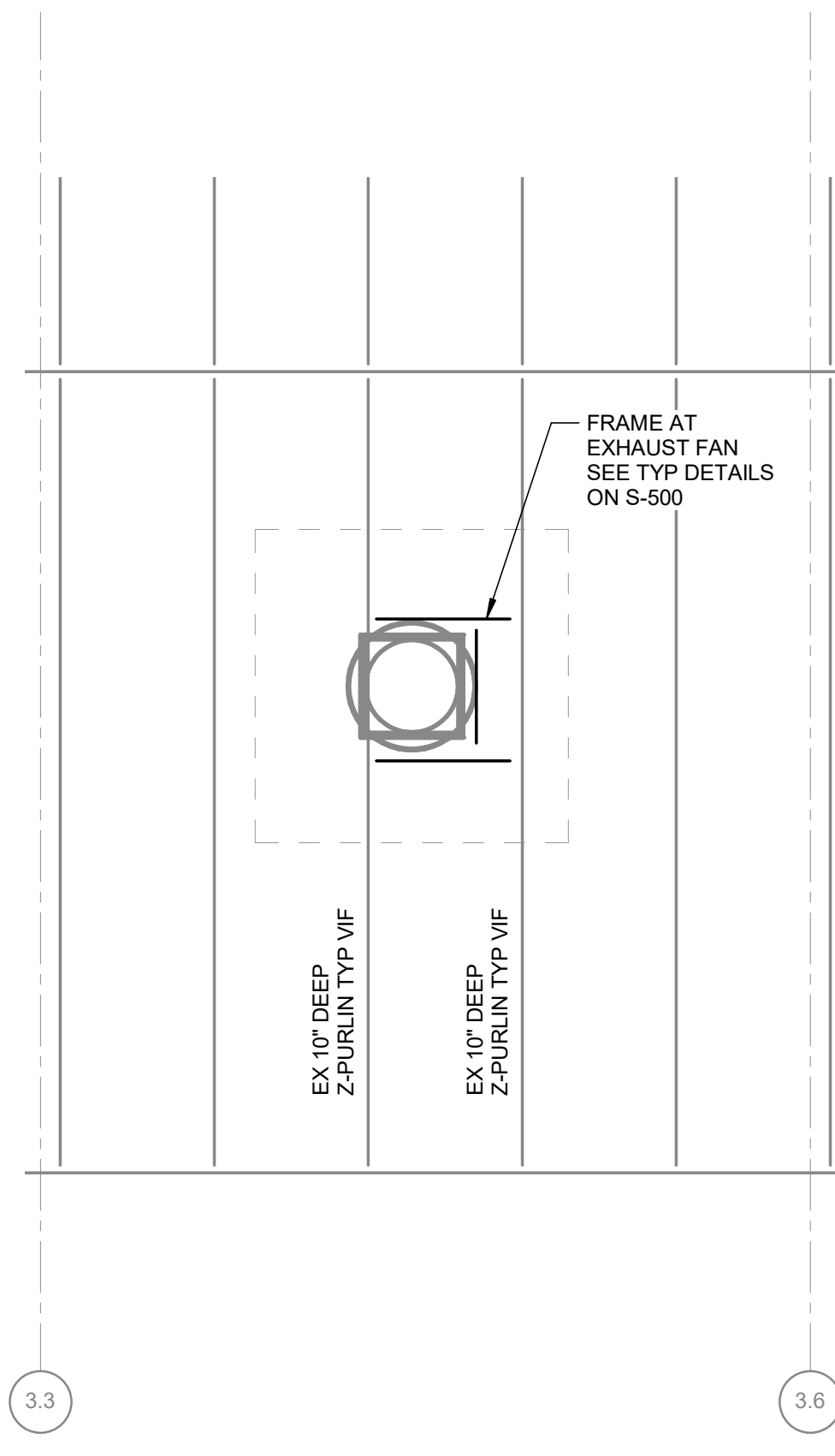
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
**ROOF OPENING
FRAMING PLAN AND
DETAILS**

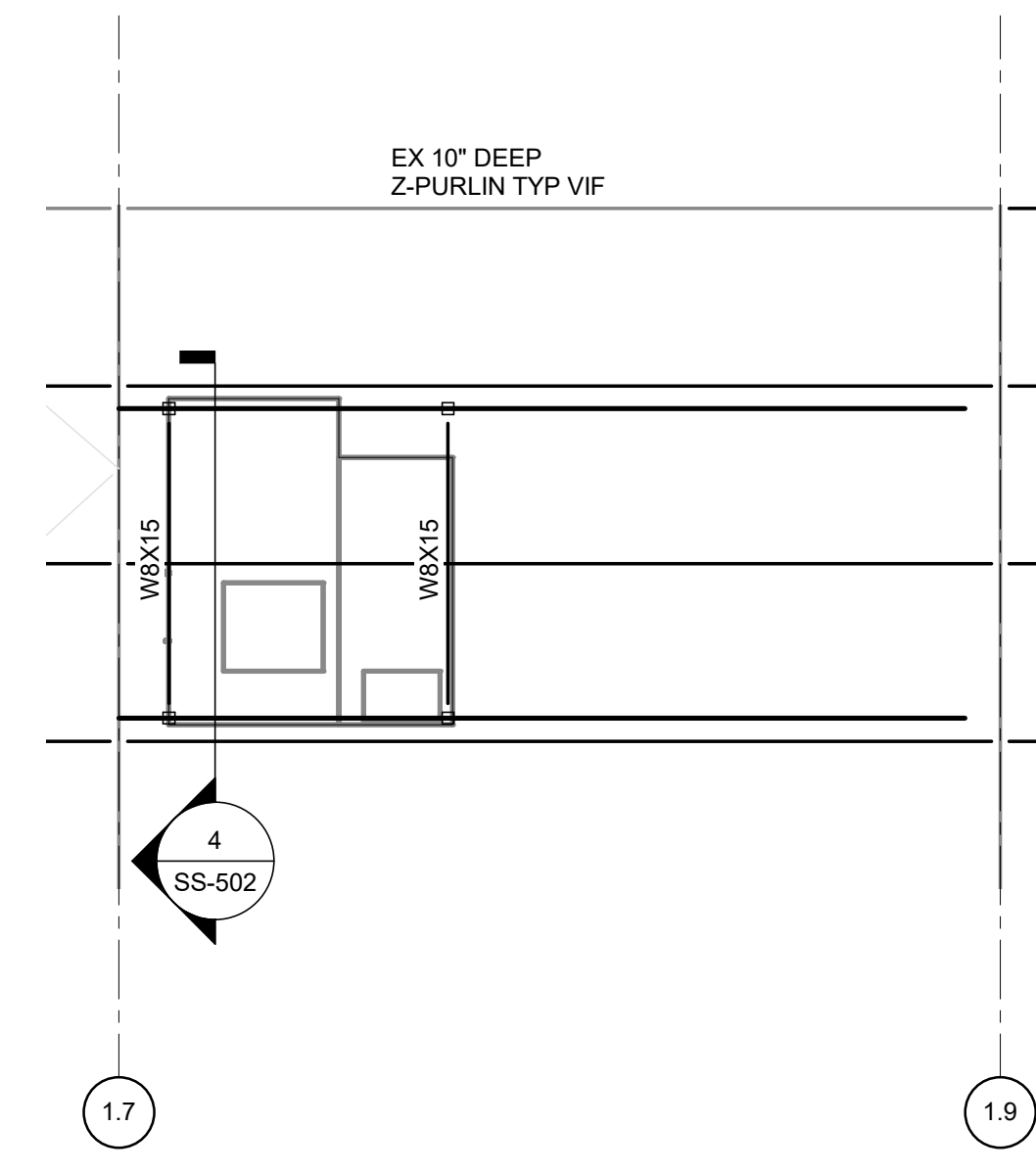
DRAWING NO:
SS-502



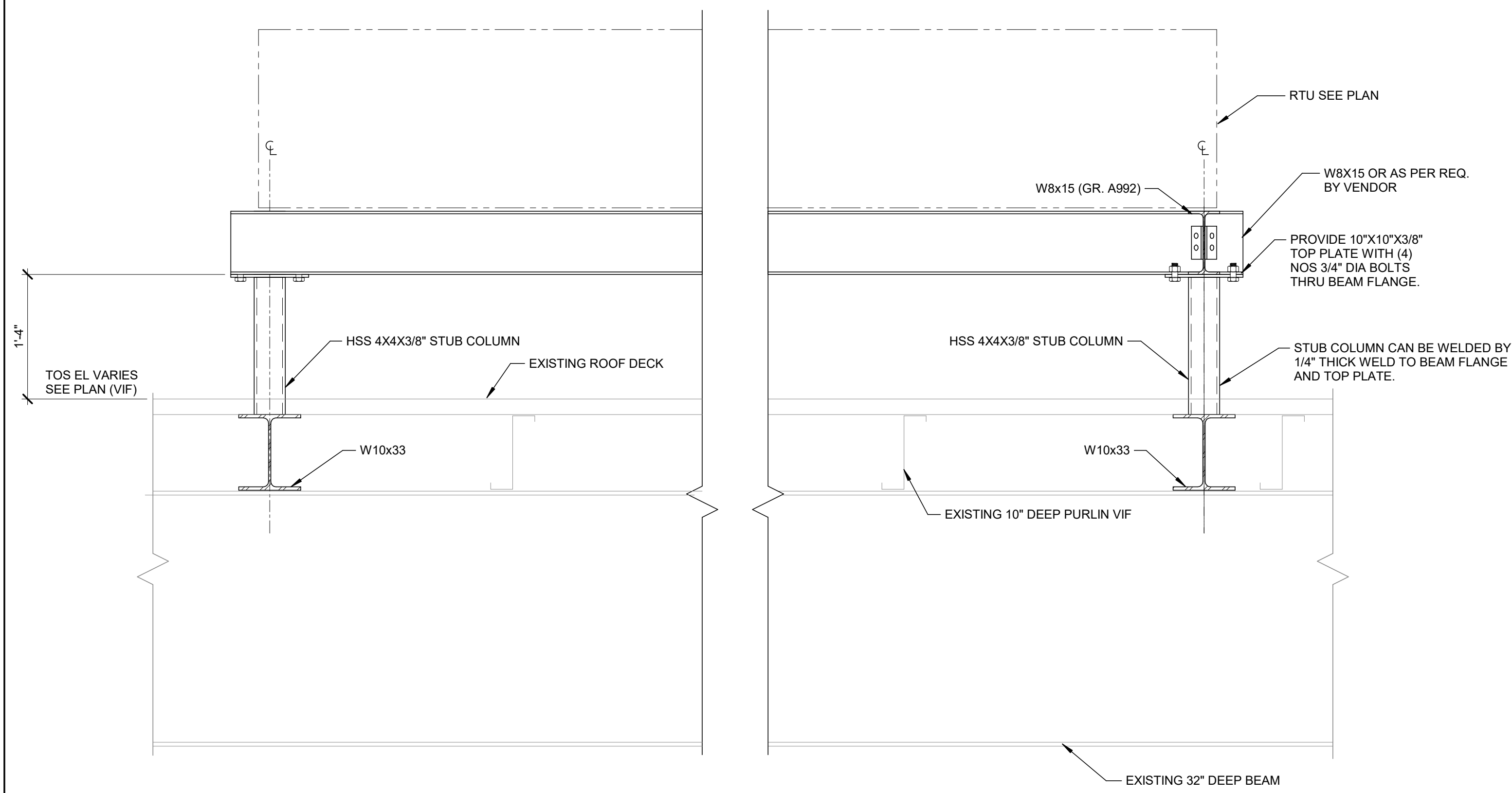
1 RTU-1
SS-502 SCALE: 3/16" = 1'-0"



2 TYPICAL EXHAUST FAN FRAMING
SS-150 SCALE: 3/16" = 1'-0"



3 DOA-1
SS-502 SCALE: 3/16" = 1'-0"



4 SECTION
SS-502 SCALE: 1" = 1'-0" NOTE: POSTS AND STEEL ABOVE ROOF TO BE HOT-DIPPED GALVANIZED

Issued For
CONSTRUCTION
04/29/2022
www.ssoe.com

SEAL ON THIS DOCUMENT AUTHORIZED BY:



PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXX-XX

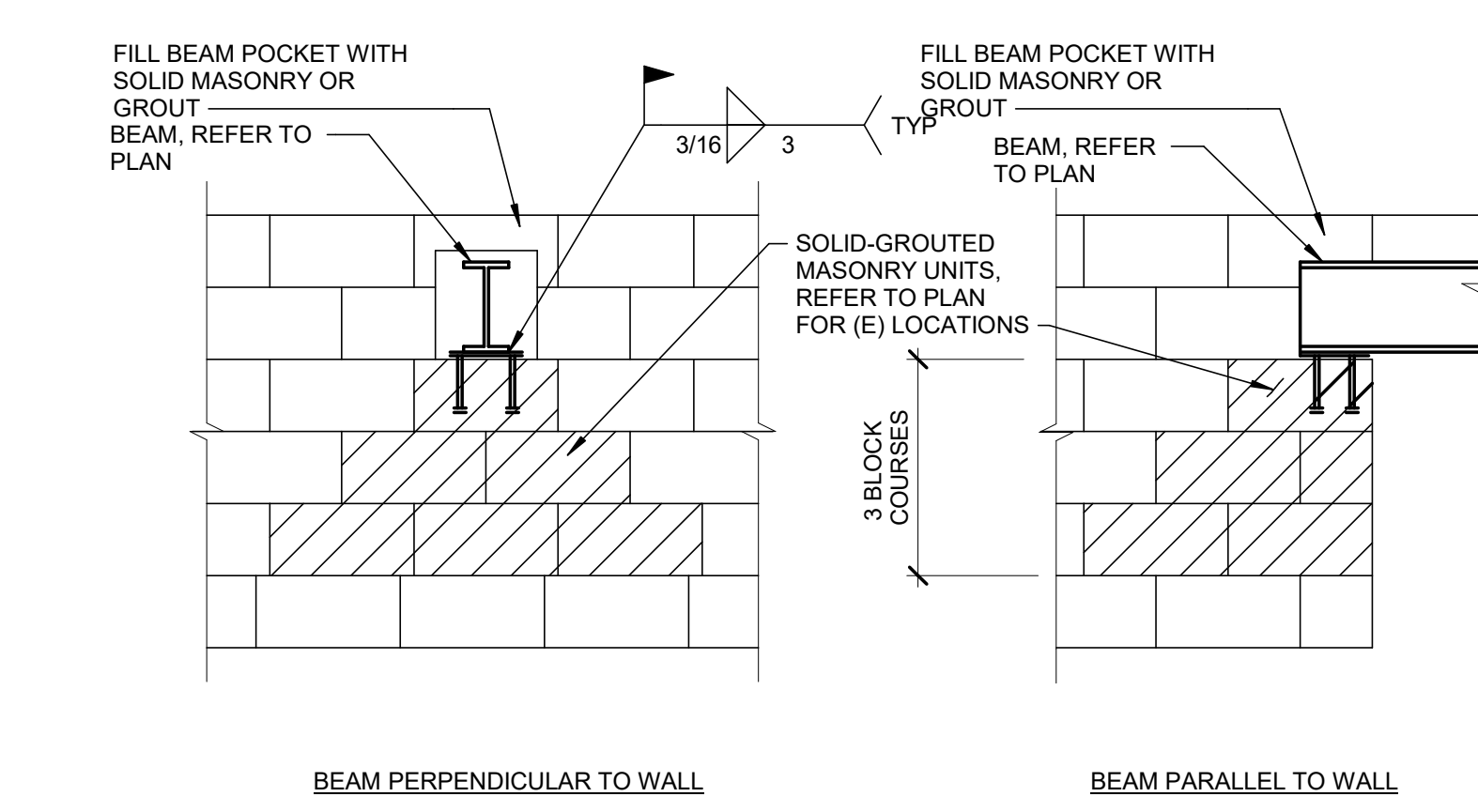
NO.	DATE	FOR CONSTRUCTION - PKG 11C02
REVISION OR ISSUE	SUBJECT	

SSOE, Inc.
1001 Madison Avenue
Tomball, TX 77364
T. (419) 255-3830

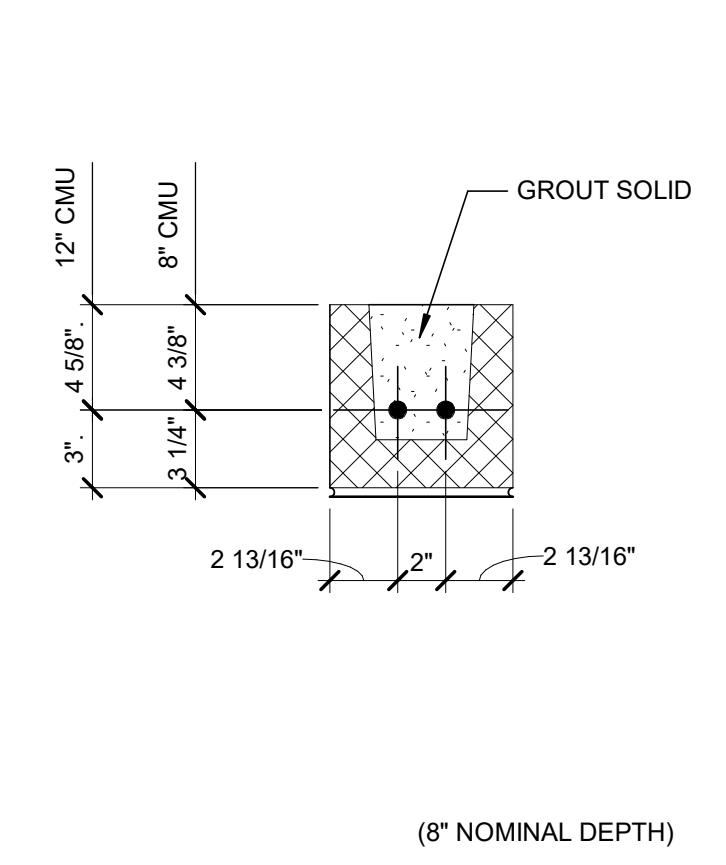
PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H. FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
CMU DETAILS

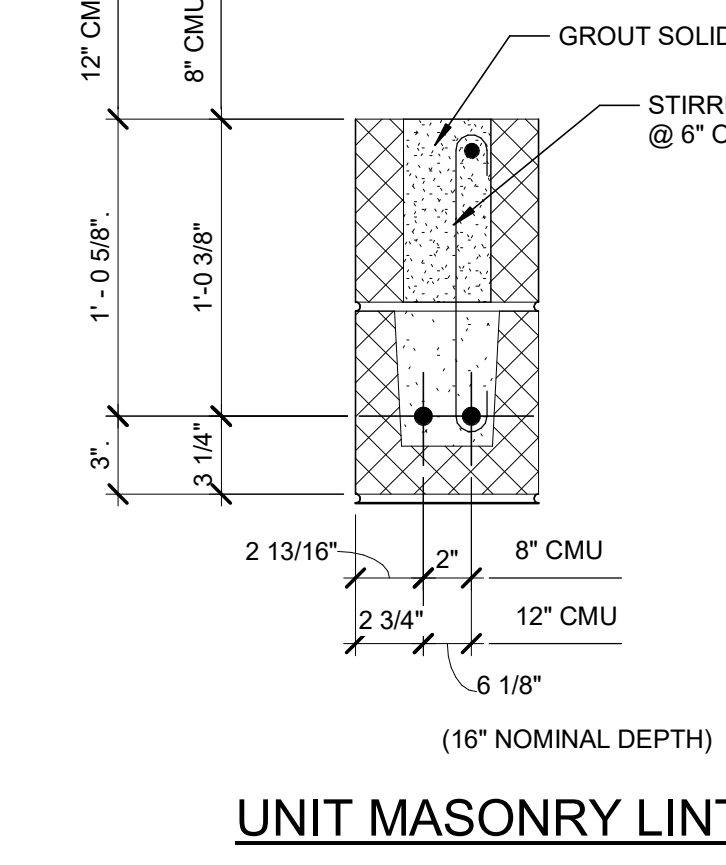
DRAWING NO:
SS-600



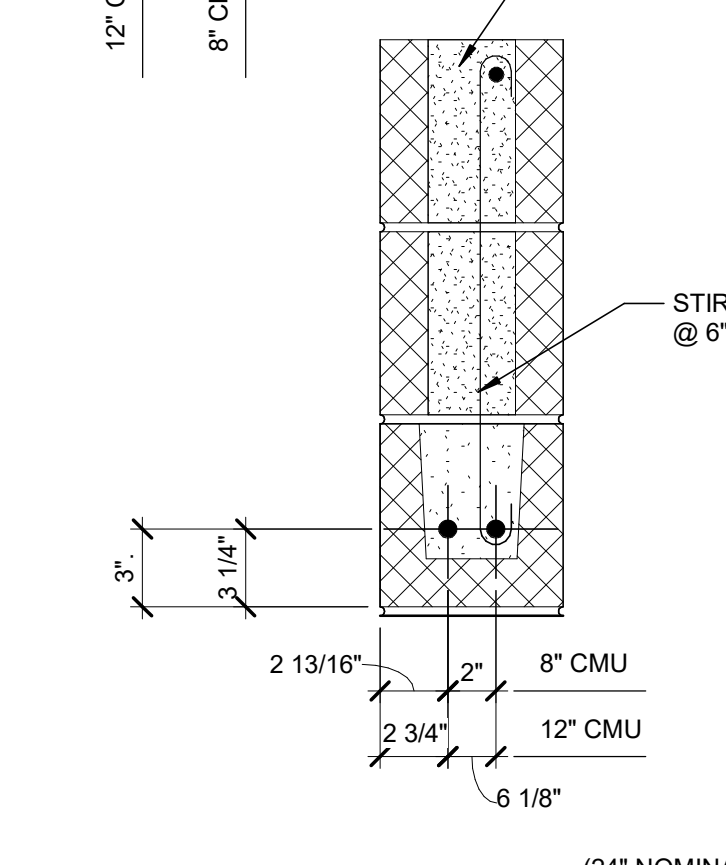
1 MASONRY WALL BEAM POCKET1
SS-600 SCALE: 3/4" = 1'-0"



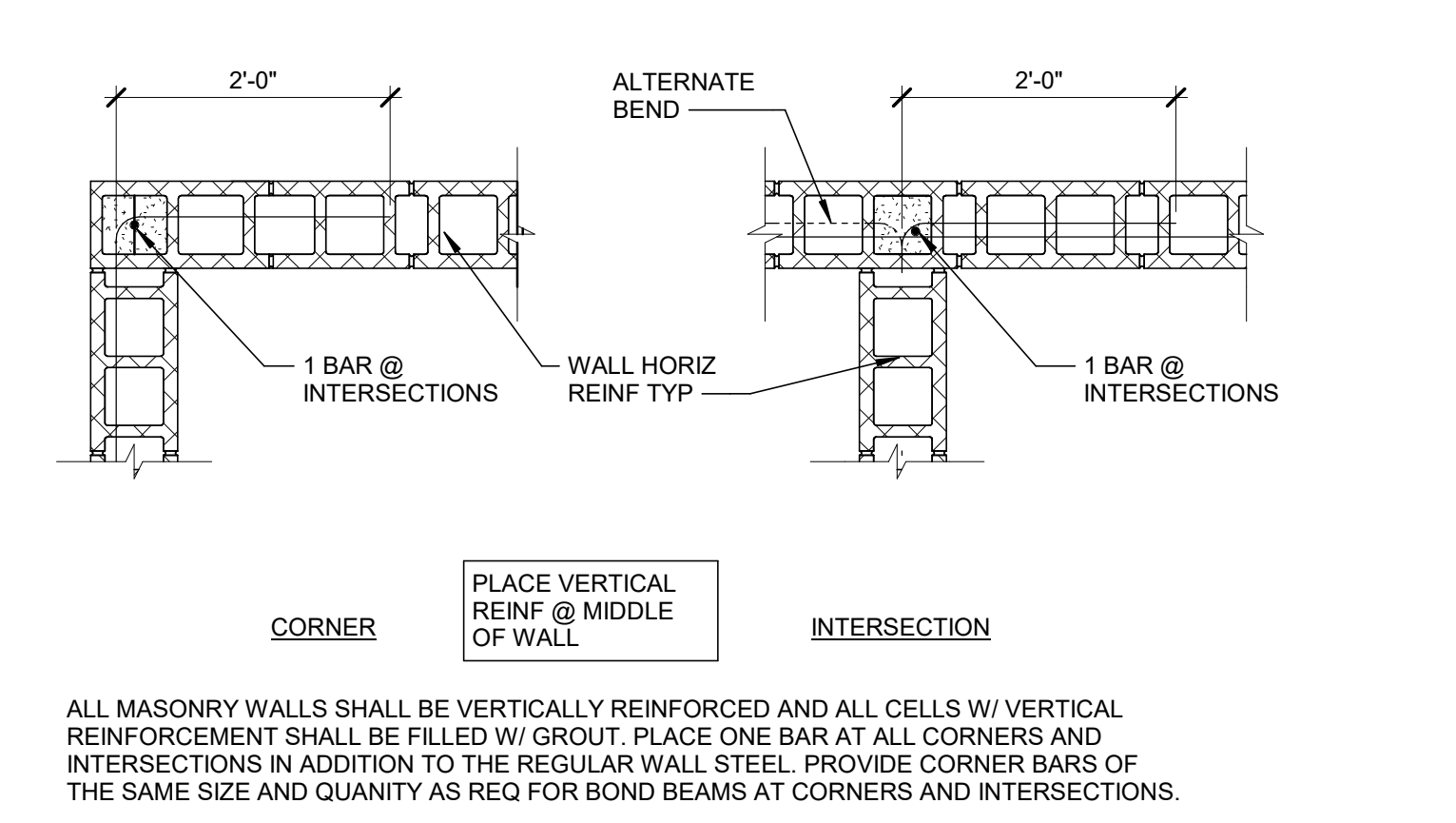
2 ONE COURSE LINTEL
SS-600 SCALE: 1 1/2" = 1'-0"



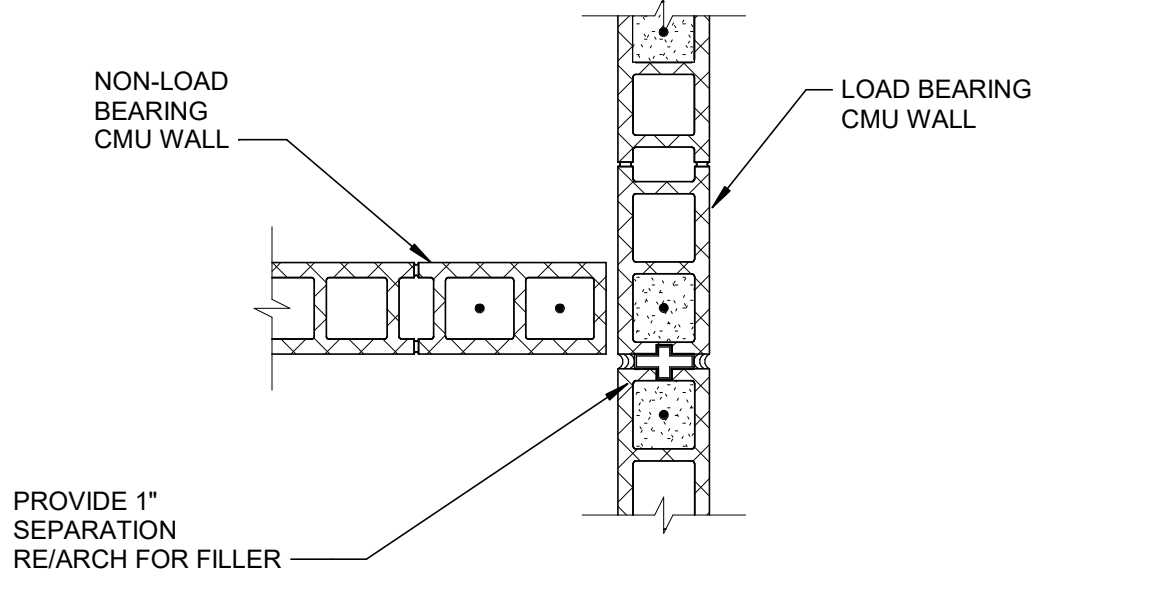
3 TWO COURSE LINTEL
SS-600 SCALE: 1 1/2" = 1'-0"



4 THREE COURSE LINTEL
SS-600 SCALE: 1 1/2" = 1'-0"



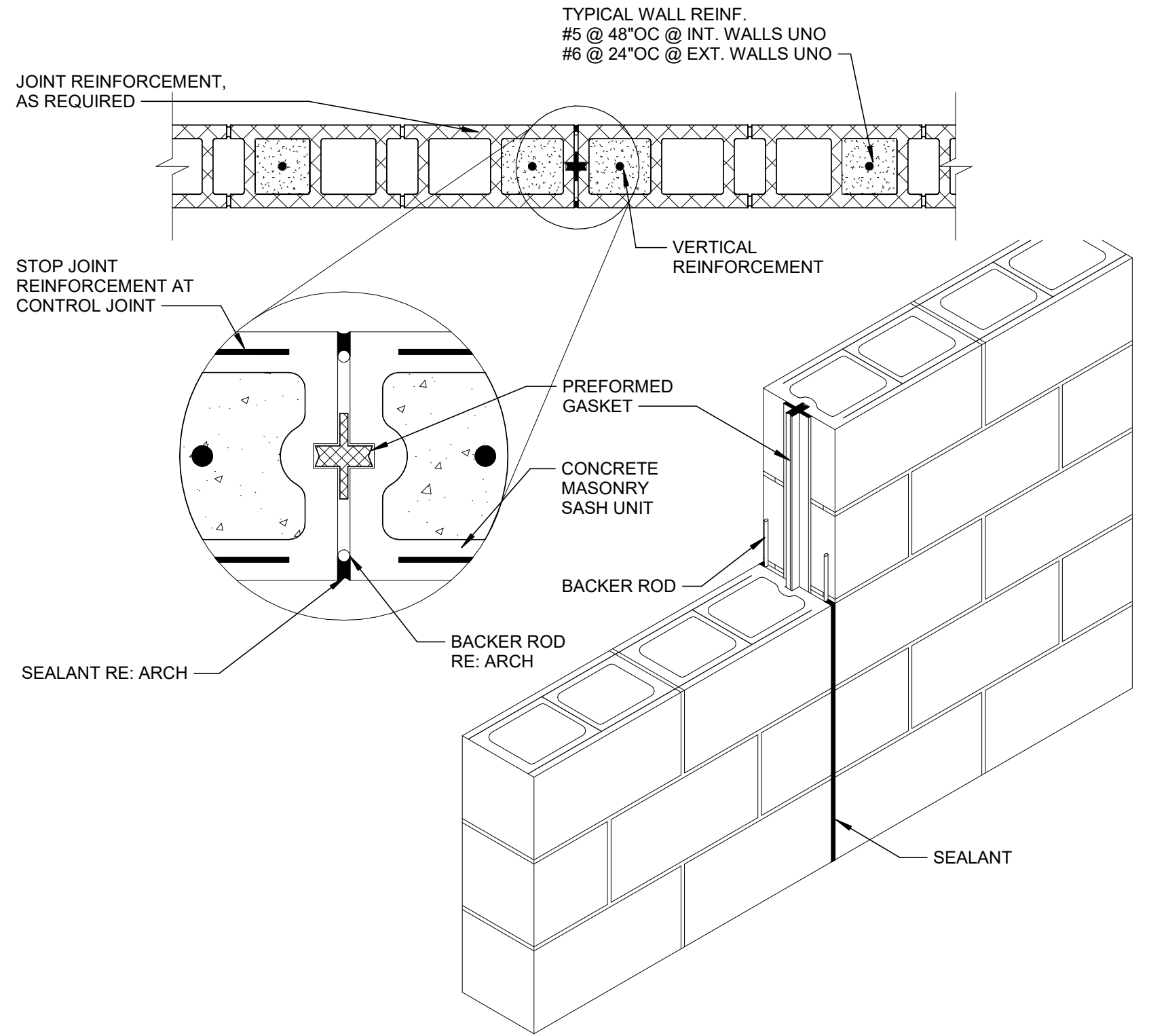
5 TYP MASONRY HORIZONTAL REINFORCING
SS-600 SCALE: 3/4" = 1'-0"



6 TYPICAL @ NON-LOAD BEARING WALL TO LOAD BEARING WALL INTERSECTION
SS-600 SCALE: 3/4" = 1'-0"

CMU	CLEAR WALL OPENING	BOND BEAM DEPTH	REINFORCEMENT	STIRRUPS & SPACING	REMARKS
8" / 12"	UP TO 4'-0"	8"	(2) #4 BOTTOM	NONE	
	4'-0" TO 5'-11"	8"	(2) #5 BOTTOM	NONE	
	6'-0" TO 8'-0"	16"	(2) #5 TOP & BOTTOM	#3 @ 6" OC	
	8'-1" TO 10'-0"	24"	(2) #5 TOP & BOTTOM	#3 @ 6" OC	
	10'-1" TO 12'-0"	32" MIN	(2) #6 TOP & BOTTOM	#3 @ 6" OC	MIN BEARING 16"

NOTE:
1. PROVIDE 8" MIN BEARING EACH END OF BOND BEAMS UNO
2. FILL 2 BLOCK CORES MIN BELOW EACH BEARING END OF BOND BEAMS
3. FOR WALL ABOVE LINTEL, DOWEL VERTICAL REINF INTO FULL DEPTH OF LINTEL OR DEVELOPMENT LENGTH WHICHEVER IS LESS, ANCHOR VERTICAL REINF WITH STANDARD HOOK
4. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY
5. SPLICE BOTTOM BARS OVER SUPPORTS ONLY
6. REFER TO DETAILS 2,3 AND 4 THIS SHEET.

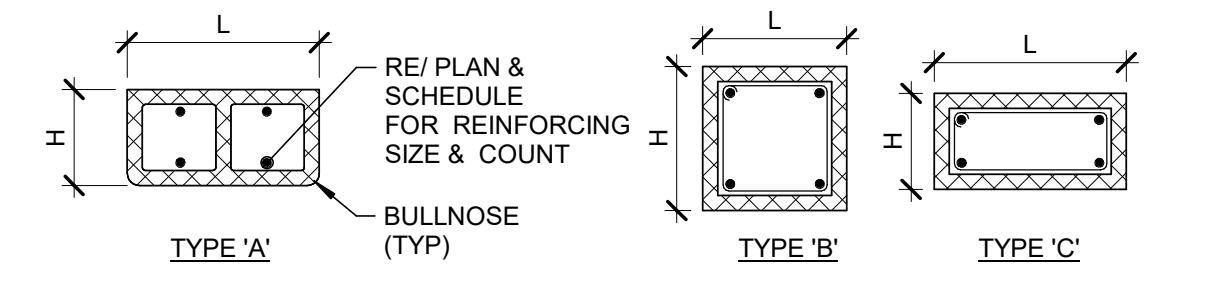


8 TYPICAL MASONRY CONTROL JOINT
SS-600 SCALE: 1" = 1'-0"

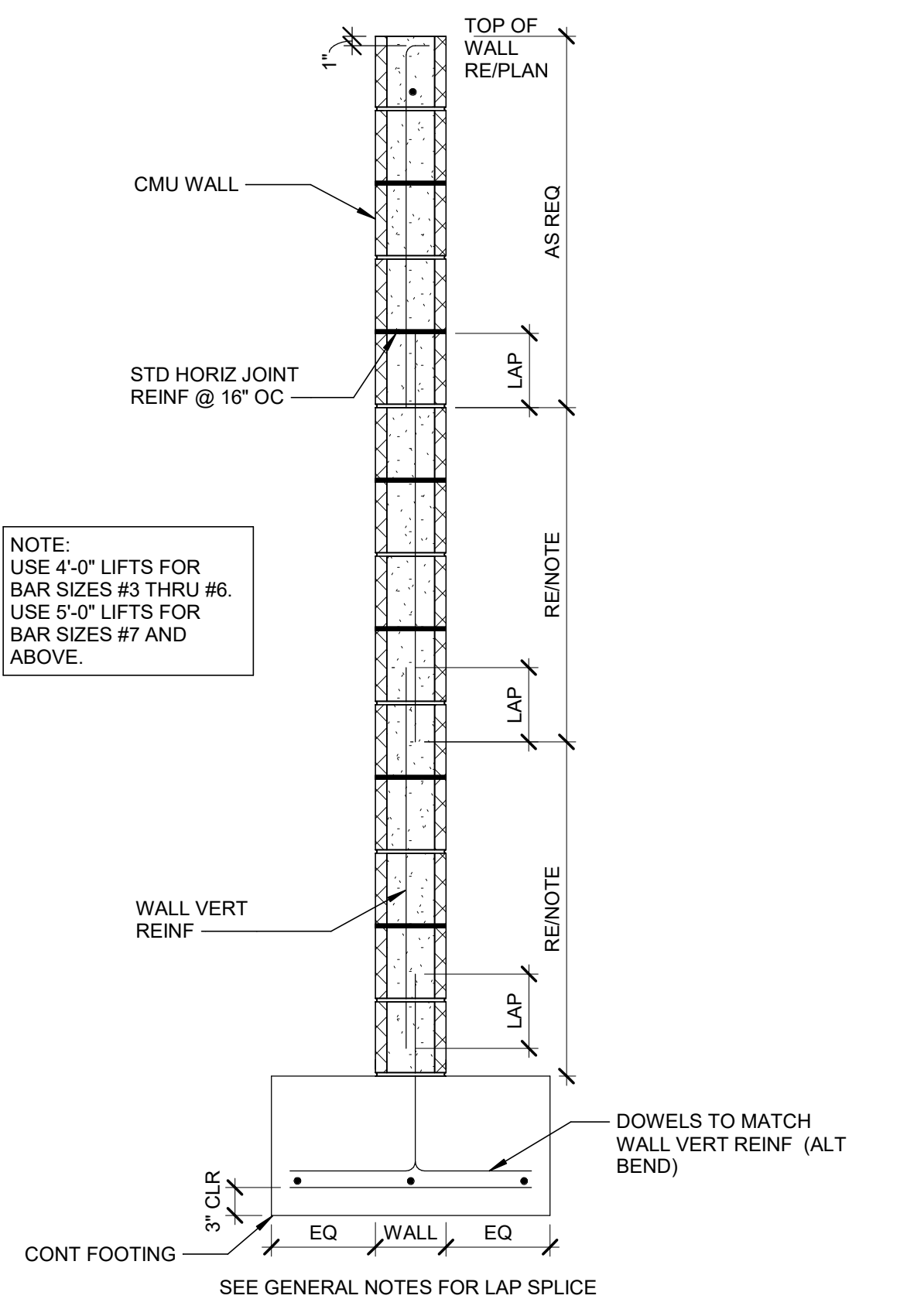
CONCRETE MASONRY PIER SCHEDULE

MARK	SIZE		REINFORCING		PIER TYPE	REMARKS
	W	L	VERTICAL	TIES		
MP-1	-	-	-	-	-	
MP-2	-	-	-	-	-	
MP-3	-	-	-	-	-	

NOTES:
1. GROUT SOLID ALL PIERS FULL HEIGHT. REFER TO PLANS FOR LOCATIONS AND EXTENT OF PIERS
2. WALL HORIZONTAL REINF SHALL BE PLACED INSIDE THE VERTICALS OF MASONRY PIERS
3. DOWELS TO MATCH PIER VERTICAL REINF AND SHALL BE TIED WITH #3 TIES @ 6" OC IN FOUNDATION

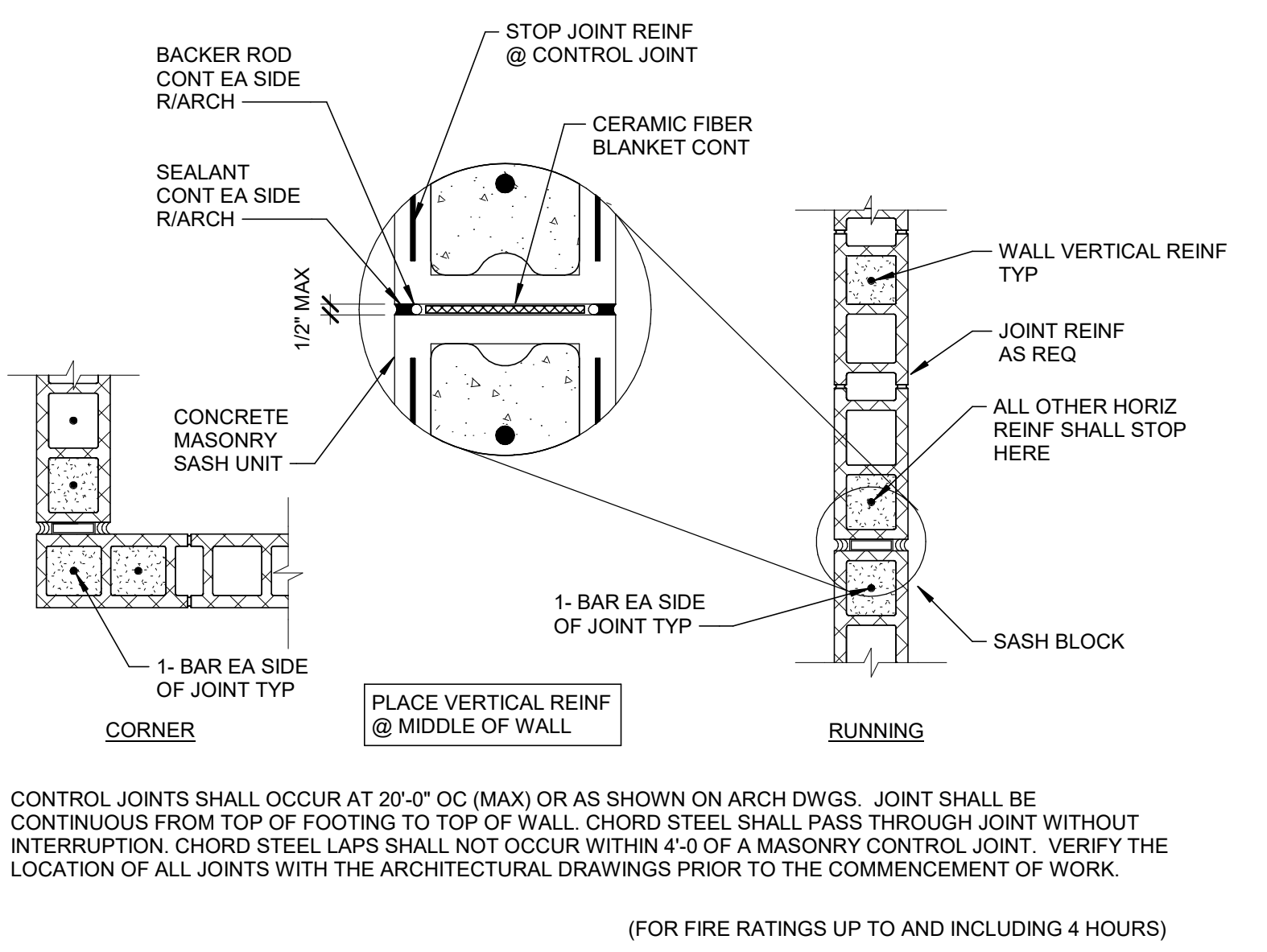


9 TYPICAL MASONRY PIER DETAILS
SS-600 SCALE: 3/4" = 1'-0"

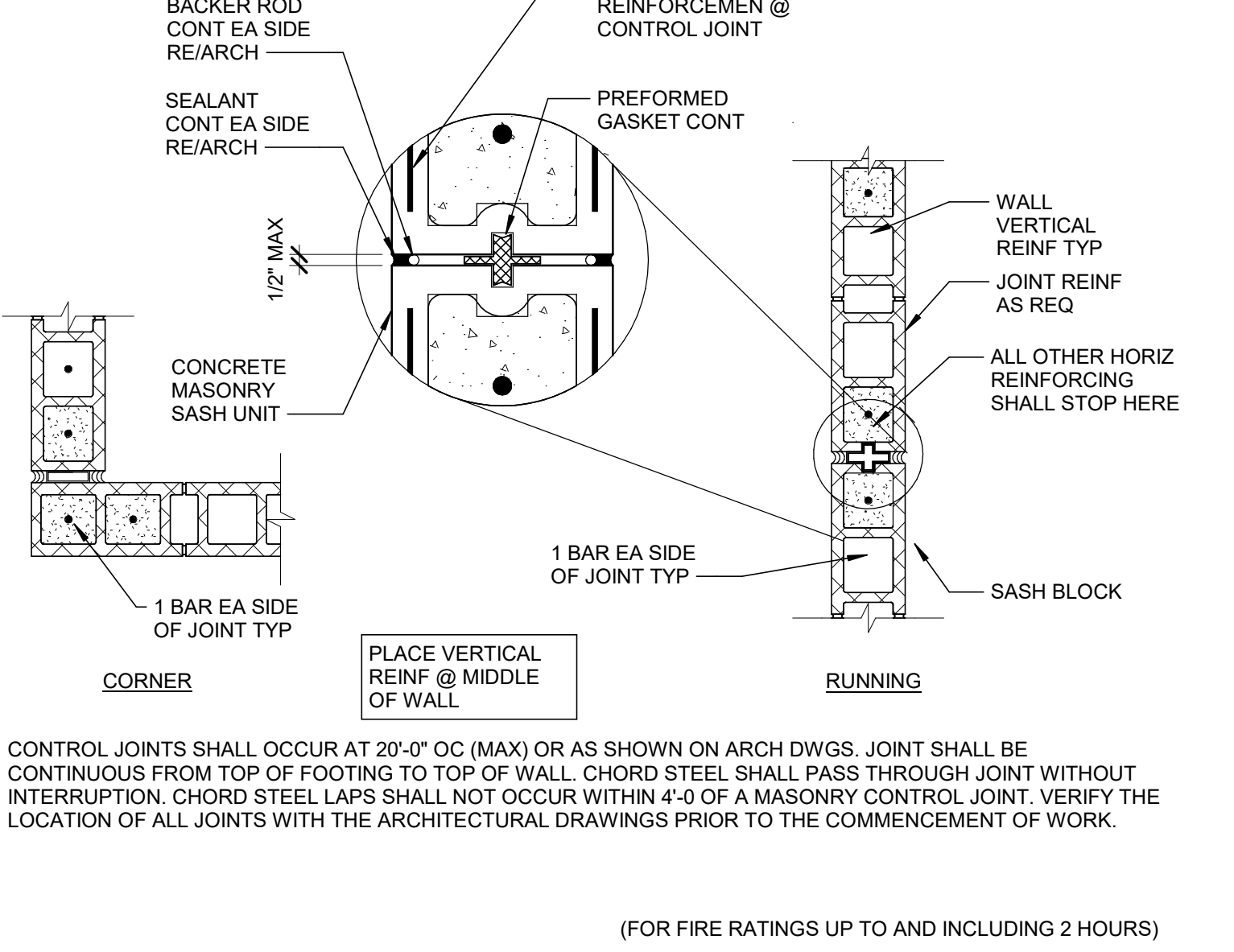


10 TYPICAL MASONRY VERTICAL REINFORCING
SS-600 SCALE: 3/4" = 1'-0"

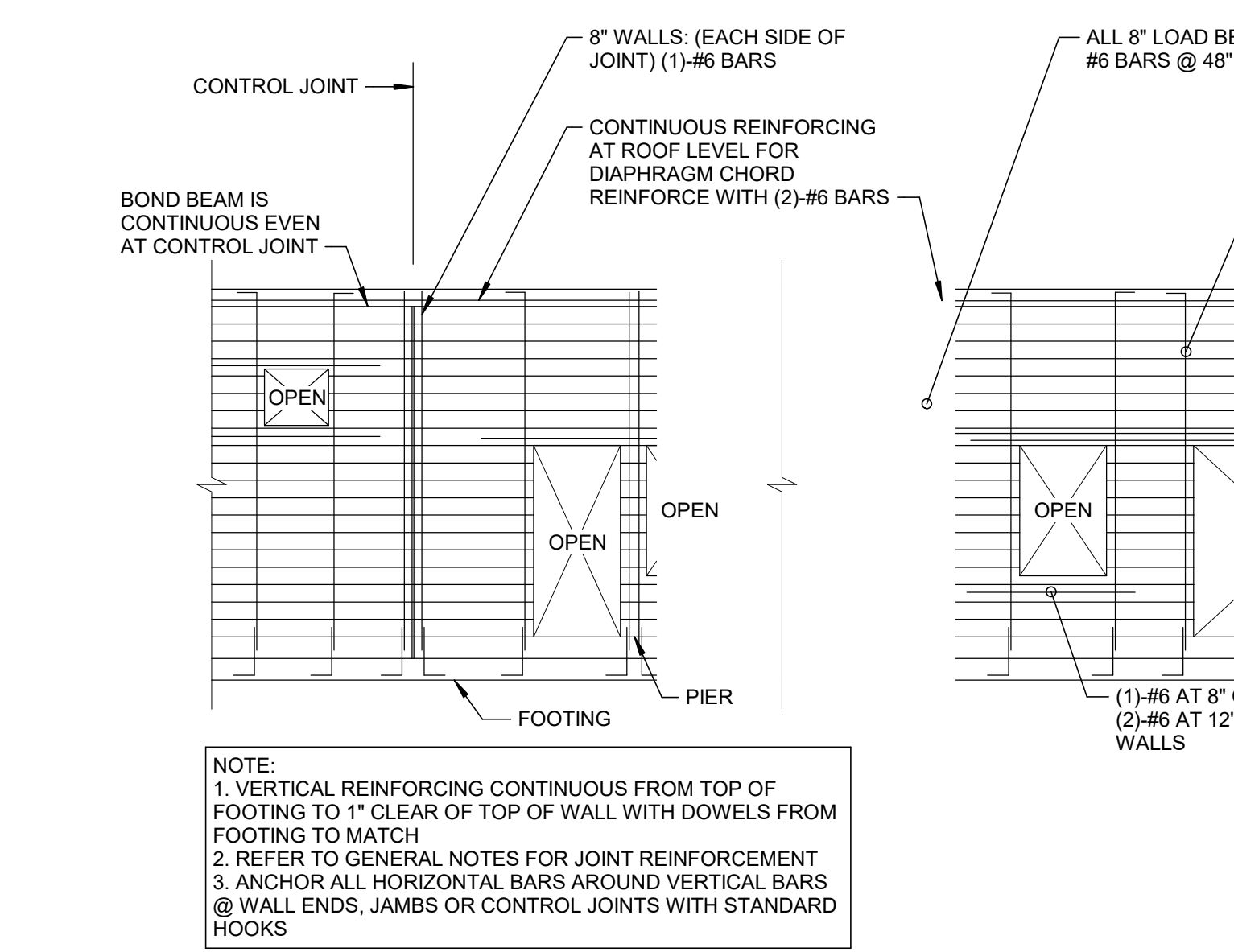
7 MASONRY SCHEDULE
SS-600 SCALE: 3/4" = 1'-0"



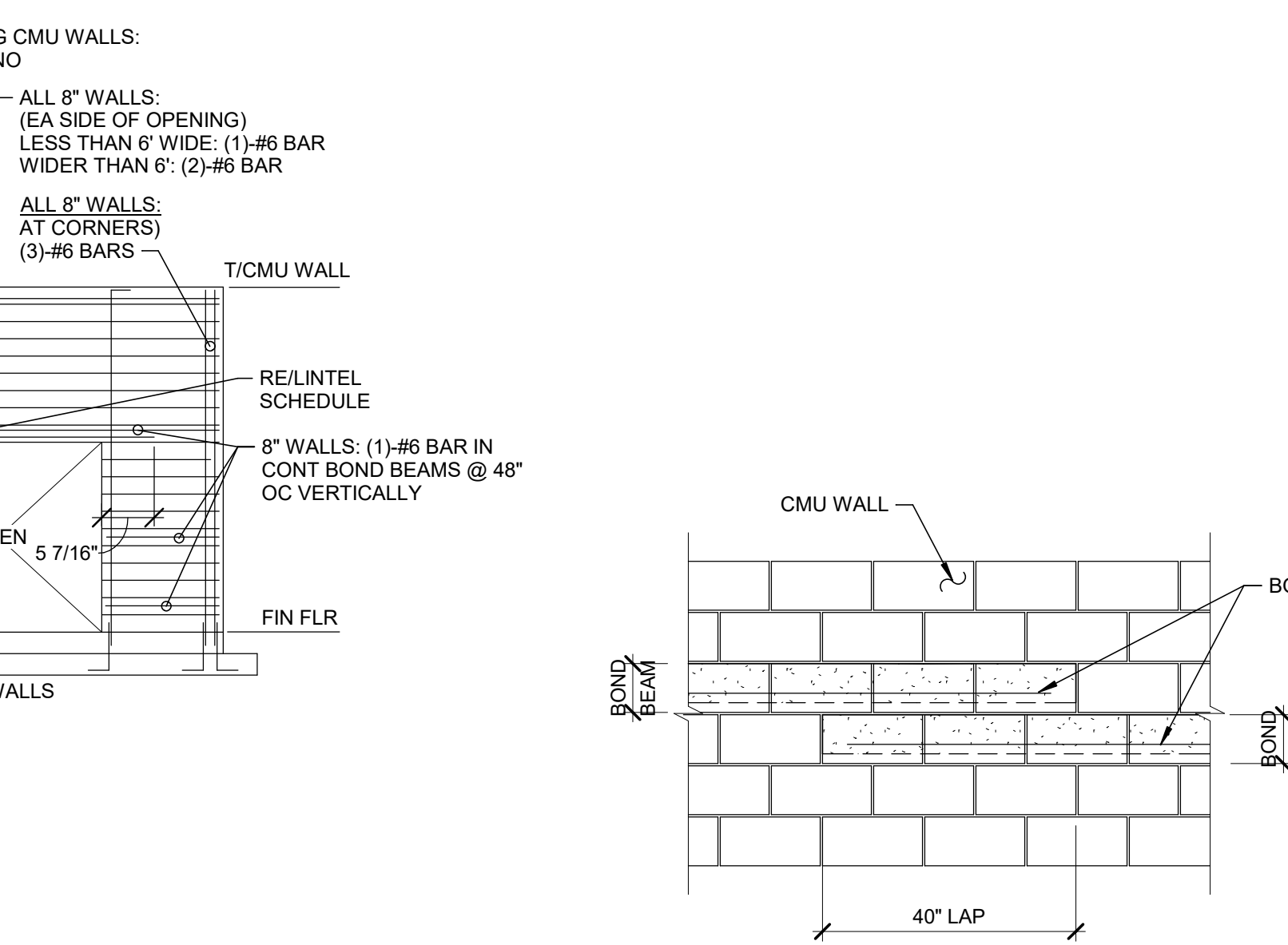
11 TYPICAL MASONRY WALL CONTROL JOINT
SS-600 SCALE: 3/4" = 1'-0"



12 TYPICAL STAR MASONRY WALL CONTROL JOINT
SS-600 SCALE: 3/4" = 1'-0"



13 TYPICAL MASONRY WALL ELEVATION
SS-600 SCALE: 3/4" = 1'-0"



15 TYPICAL STEPPED BOND BEAM
SS-600 SCALE: 3/4" = 1'-0"

