



**BUILDING ENVELOPE**

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS (IECC TABLE C402.1.3)			
BUILDING ELEMENT	MIN. R-VALUE**	R-VALUE PROVIDED	CODE
WALLS - WOOD FRAMED	20	20	2015 IECC - TABLE C402.1.3
ROOF	38	39	2015 IECC - TABLE C402.1.3
FLOORS - SLAB ON GRADE	NOT REQUIRED	0	2015 IECC - TABLE C402.1.3
CLIMATE ZONE	2A, BALDWIN COUNTY		2015 IECC - TABLE 301.1

**PLUMBING FIXTURE SCHEDULE (IBC TABLE 2902.1)**

OCC CLASS	OCCUPANT LOADS	WATER CLOSETS		LAVATORIES	DRINKING FOUNTAIN	OTHER
		MALE	FEMALE	MALE/FEMALE EACH		
A-3 ASSEMBLY	299	1 PER 125	1 PER 65	1 PER 200	1 PER 500	1 SERVICE SINK
		1.2	2.31	0.75 EACH	0.60	
B BUSINESS	12	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR REMAINDER		1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE...	1 PER 100	1 SERVICE SINK
		0.24	0.24	0.15 EACH	0.12	
TOTAL REQ'D	311	1.44	2.55	0.90 EACH	0.72	
TOTAL PROVIDED		4	4	2 EACH	1	1 SERVICE SINK

**CODE REVIEW**

REFER SITE & CIVIL PACKAGE FOR ADDITIONAL INFORMATION SUCH AS FIRE DEPARTMENT ACCESS.

**APPLICABLE CODES**  
 2021 INTERNATIONAL BUILDING CODE  
 2021 INTERNATIONAL FIRE CODE  
 2021 INTERNATIONAL FUEL & GAS CODE  
 2021 INTERNATIONAL MECHANICAL CODE  
 2018 INTERNATIONAL PLUMBING CODE  
 2020 NATIONAL ELECTRICAL CODE (NFPA 70)  
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN  
 CITY OF GULF SHORES SUPPLEMENTAL REQUIREMENTS

**GENERAL BUILDING HEIGHTS AND AREAS (Chapter 5)**  
 OCCUPANCY CLASSIFICATION: ASSEMBLY (GROUP A-3)  
 CONSTRUCTION TYPE: TYPE VB  
 AUTOMATIC SPRINKLER SYSTEM: NO

ALLOWABLE AREAS:  
 ALLOWABLE HEIGHT ABOVE GRADE (V8): A-3 = 6,000 SF (NOT SPRINKLED)  
 ALLOWABLE NUMBER OF STORIES (V8): A-3 = 40 FT  
 PROJECT AREAS: A-3 = 1 STORY 4,566 SF (UNDER ROOF)

**TYPES OF CONSTRUCTION (Chapter 6)**  
 STRUCTURAL ELEMENTS CONSIST OF CONCRETE SLAB ON GROUND WITH WOOD FRAMED WALLS AND SHOP-FABRICATED WOOD TRUSSES.

NO FIRE-RESISTANT ASSEMBLIES REQUIRED FOR BUILDING ELEMENTS OR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER IBC TABLES 601 AND 705.5.

**FIRE AND SMOKE PROTECTION FEATURES (Chapters 7 & 9)**  
 PER IBC 903.2.1.3, AUTOMATIC SPRINKLERS ARE NOT REQUIRED.  
 ASSEMBLY (A-3) OCCUPANT LOAD IS LESS THAN 500; FIRE AREA DOES NOT EXCEED 12,000 SF; FIRE AREA IS NOT LOCATED ON A FLOOR OTHER THAN THE LEVEL OF EXIT DISCHARGE.

**MEANS OF EGRESS (Chapter 10)**  
 OCCUPANCIES: A-3  
 GROSS FLOOR AREAS: 2,438 SF (INTERIOR UNCONDITIONED)  
 846 SF (EXTERIOR COVERED)  
 171 SF (EXTERIOR UNCOVERED)  
 3,455 SF TOTAL  
 OCCUPANT LOAD: 299 (A-3)  
 12 (B)  
 311 TOTAL  
 REQ'D EXIT WIDTH: 311 x 0.2 = 62.2'  
 REFER PLAN  
 REQ'D EXIT AMT: 2  
 EXITS PROVIDED: REFER PLAN FOR EXITS AND EXIT ACCESS  
 TRAVEL DISTANCE ALLOWED: 200 FT (NON-SPRINKLED)  
 MAX COMMON PATH: 75 FT (NON-SPRINKLED)

**ACCESSIBILITY (CHAPTER 11)**  
 ACCESSIBLE ROUTES AND ENTRANCES ARE PROVIDED FOR IN THE DESIGN.  
 REFER SITE & CIVIL PACKAGE FOR ACCESSIBLE PARKING REQUIREMENTS AND LOCATIONS.  
 REFER ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS FOR ACCESSIBILITY REQUIREMENTS AT RESTROOMS AND OTHER FIXTURES AND EQUIPMENT.

**PLUMBING FIXTURES (CHAPTER 29)**  
 REFER PLUMBING FIXTURE SCHEDULE THIS SHEET FOR REQUIREMENTS AT THIS BUILDING.  
 REFER SITE & CIVIL PACKAGE FOR PLUMBING REQUIREMENTS FOR ENTIRE CAMPUS AND LOCATIONS OF PROVIDED FACILITIES.

**BUILDING ENVELOPE**  
 REFER TO PROVIDED TABLE ON THIS SHEET.



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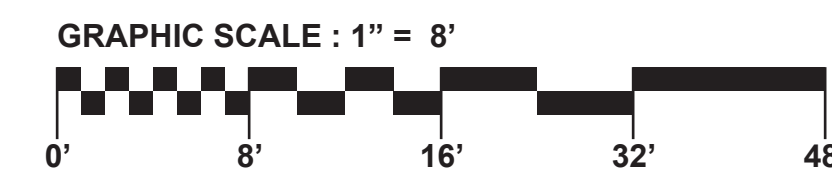
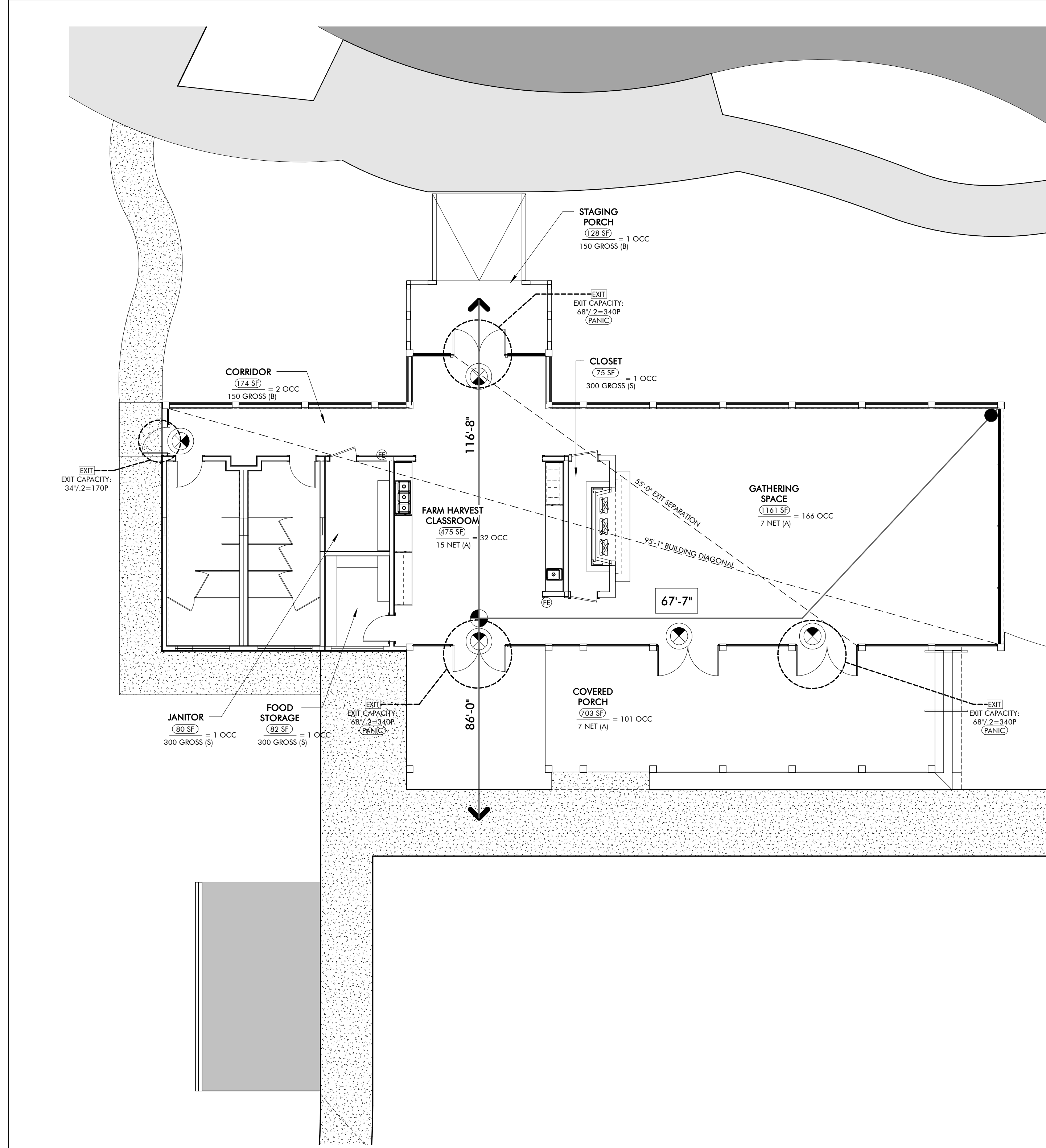
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**GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY**  
 WELCOME HUB PACKAGE  
 GULF SHORES, ALABAMA



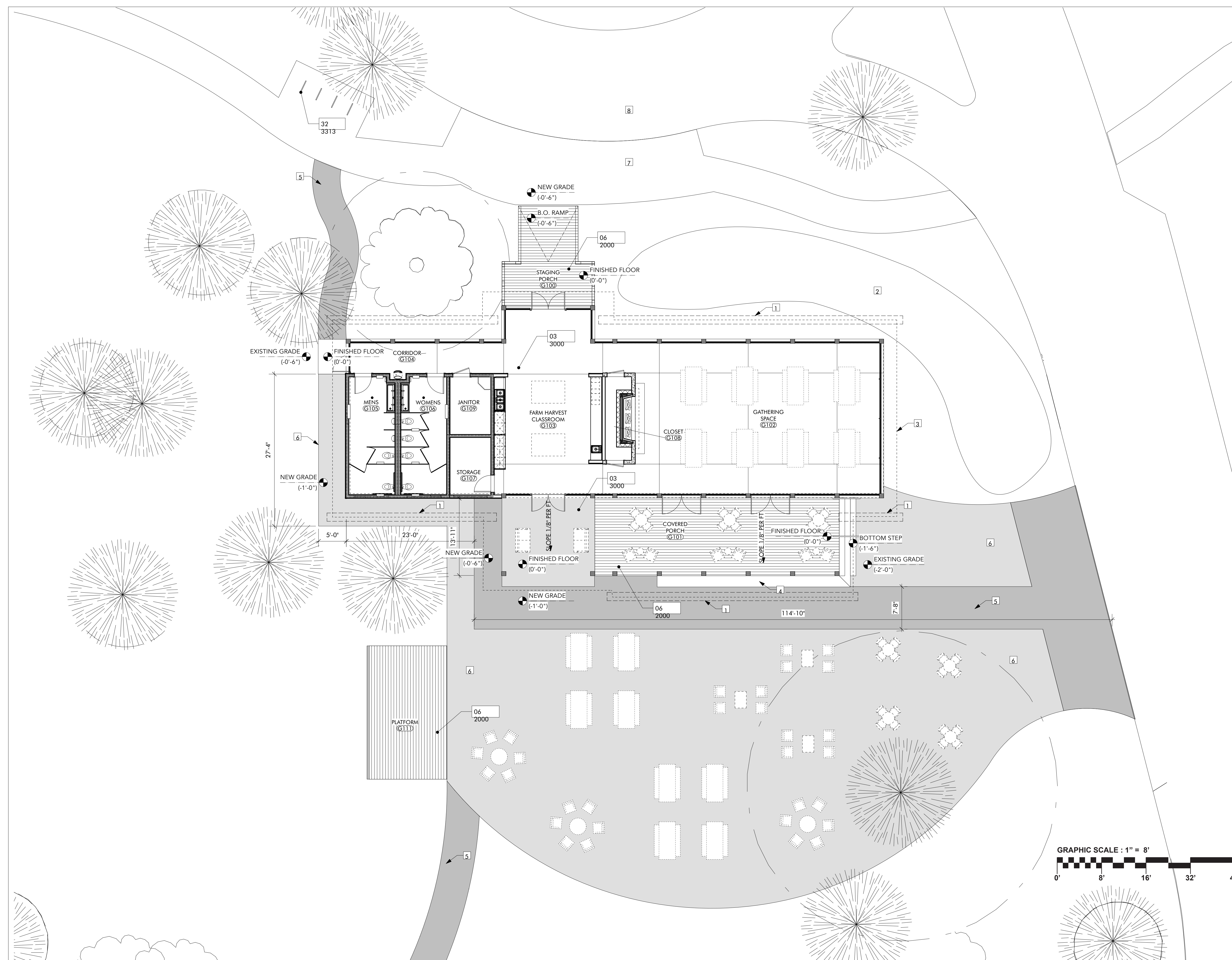
**LIFE SAFETY PLAN**  
**GATHERING HUB**  
**1**  
 1/8" = 1'-0"

**SHEET SPECIFIC NOTES**

**GRAPHIC LEGEND**

- PATH OF TRAVEL BEGINNING
- POINT OF TRAVEL DIVERGENCE
- PATH DISCHARGE TO PUBLIC RIGHT OF WAY
- 112'-7" TOTAL EGRESS TRAVEL DISTANCE
- 112'-7" COMMON PATH OF EGRESS TRAVEL DISTANCE
- EXIT OR EXIT ACCESS
- FIRE EXTINGUISHER LOCATION
- 1-HOUR FIRE BARRIER OR FIRE RESISTANT ASSEMBLY

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	CODE REVIEW & LIFE SAFETY
SHEET NO.	GG010



**KEYNOTES**

03 3000	Cast-in-Place Concrete - See Structural for Reinforcement
06 2000	Finish Carpentry
32 3313	Site Bicycle Racks

**NOT FOR CONSTRUCTION**

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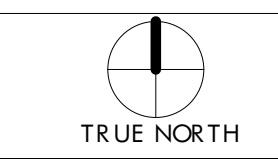
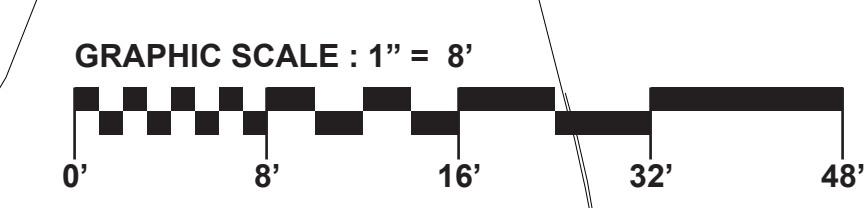
**GENERAL NOTES**

1. REFER TO SITE & CIVIL PACKAGE FOR BUILDING LOCATION ON SITE.

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**GATHERING HUB PACKAGE**  
GULF SHORES, ALABAMA

- SHEET SPECIFIC NOTES**
1. FRENCH DRAIN TO RAIN GARDEN
  2. RAIN GARDEN
  3. LINE OF ROOF ABOVE
  4. PT WOOD BENCH SEAT
  5. STABILIZED GRAVEL
  6. GRAVEL
  7. PAVED TRAIL
  8. ROAD
  9. FURNITURE, SEE INTERIORS PACKAGE

DATE	
NO.	
REVISION	
DATE	
NO.	



**ENLARGED SITE PLAN**  
**GATHERING HUB**  
1/8" = 1'-0"

**01**

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	ENLARGED SITE PLAN
SHEET NO.	AG100

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GATHERING HUB PACKAGE  
GULF SHORES, ALABAMA

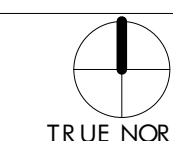
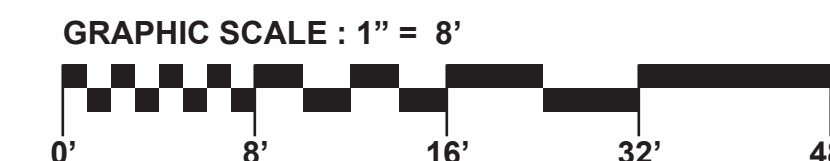
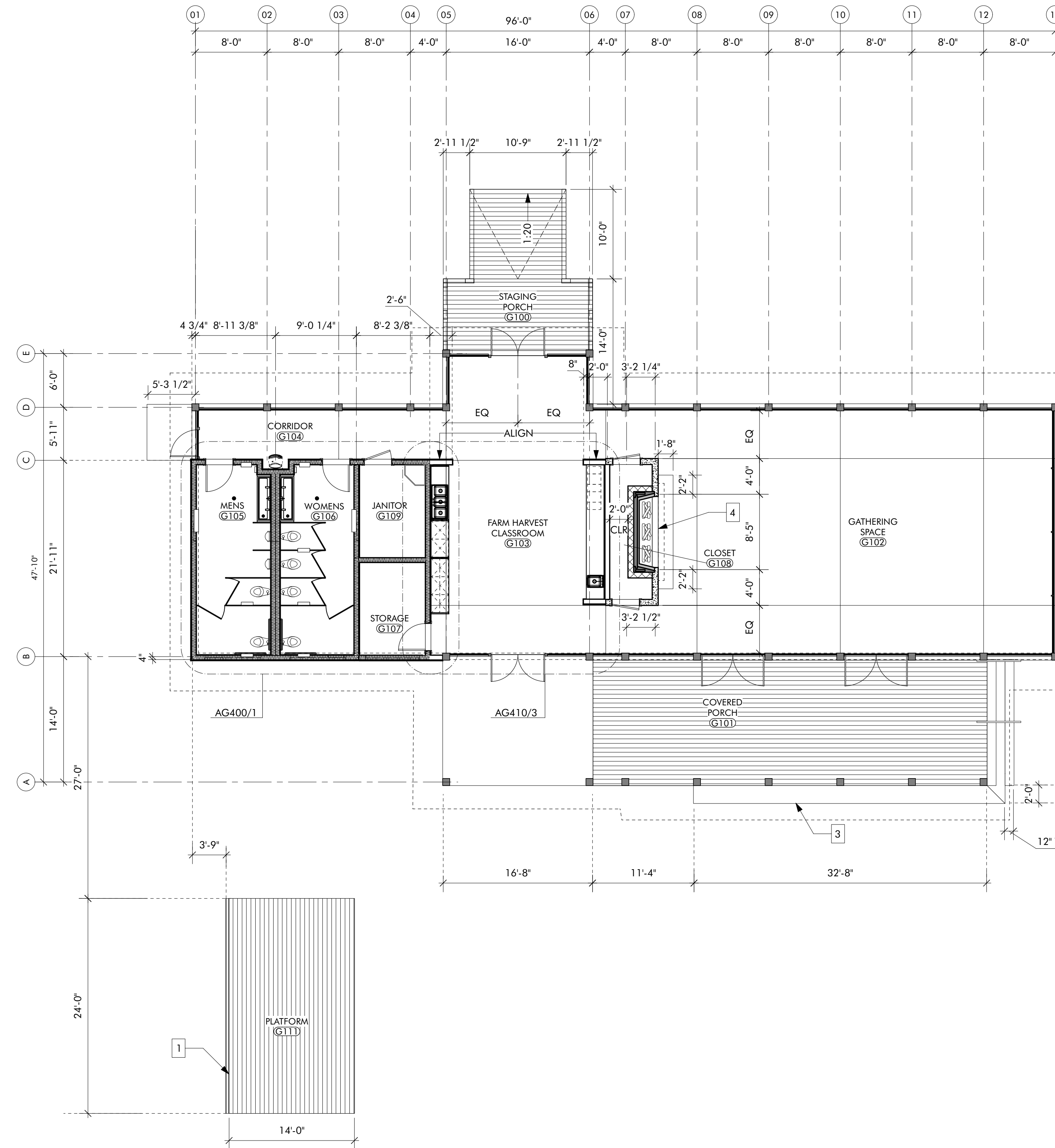
KEYNOTES

GENERAL NOTES

1. REFER TO STRUCTURAL PACKAGE FOR FRAMING LAYOUT.
2. GRIDLINES - LOCATED ON CENTERLINES OF STRUCTURAL COLUMNS UNLESS OTHERWISE NOTED. REFER TO DETAILS ON AG500 FOR ALIGNMENT WITH OTHER STRUCTURAL ELEMENTS.
3. EXTERIOR WALL - DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED. REFER TO DETAILS ON AG500 FOR ALIGNMENT WITH OTHER STRUCTURAL ELEMENTS.
4. INTERIOR WALLS - DIMENSIONS ARE TO CENTERLINE OF STUD UNLESS OTHERWISE NOTED.
5. OPENINGS - DIMENSIONS ARE TO CENTERLINE OF OPENING (DOOR OR WINDOW) UNLESS OTHERWISE NOTED. REFER TO AS600 SCHEDULES FOR DOOR AND WINDOW SIZES.

SHEET SPECIFIC NOTES

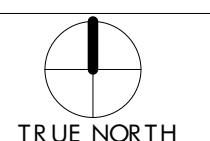
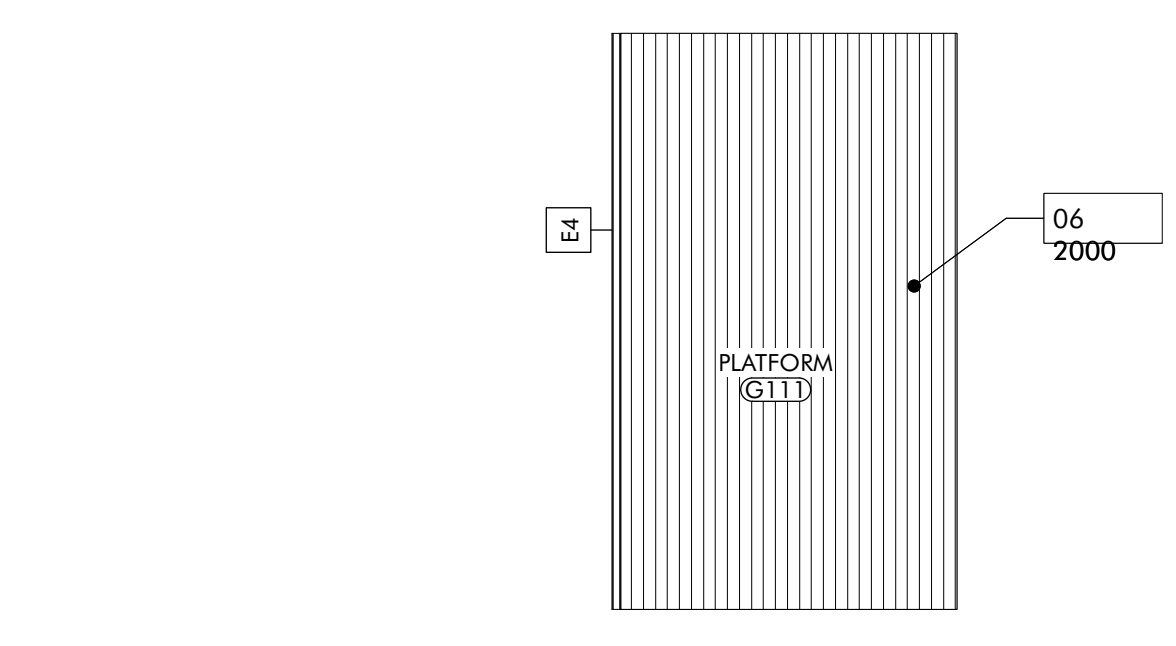
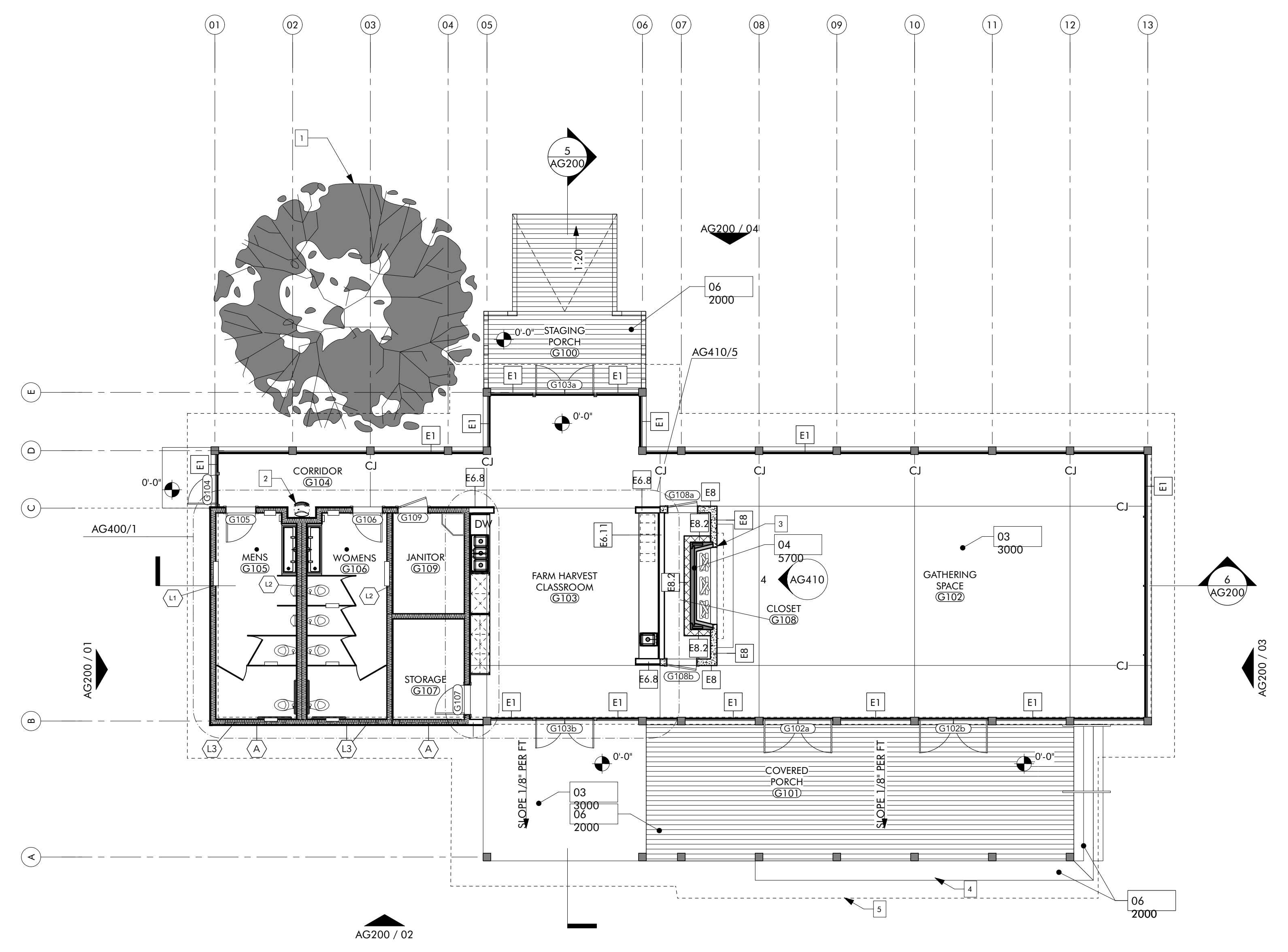
1. STAGE, VERIFY SIZE AND LOCATION IN FIELD
2. OUTLINE OF ROOF ABOVE
3. PT WOOD BENCH SEAT
4. COORDINATE MASONRY OPENING WITH APPROVED FIREPLACE



DIMENSIONED FLOOR PLAN  
GATHERING HUB

01  
1/8" = 1'-0"

INTERIOR
REVISION
DATE
NO.
JOB
19-028.000
PROJECT STATUS
CONFORMANCE SET
DATE
MARCH 24, 2023
SHEET NAME
DIMENSIONED FLOOR PLAN
SHEET NO.
AG120

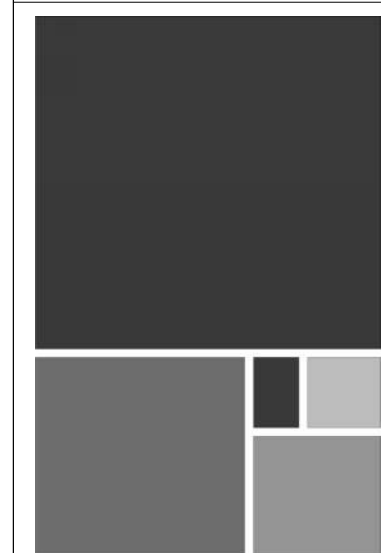


NOTED FLOOR PLAN  
GATHERING HUB

KEYNOTES

03 3000	Cast-in-Place Concrete - See Structural for Reinforcement
04 5700	Modular Masonry Fireplace
06 2000	Finish Carpentry

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- GENERAL NOTES
1. REFER AG600 SCHEDULES FOR ROOM FINISHES SCHEDULE, WINDOW LEGEND, AND DOOR SCHEDULE.
  2. ALL EXPOSED WOOD TO BE STAINED, SEE SPECIFICATIONS SECTION 09 9300

- SHEET SPECIFIC NOTES
1. SIGNIFICANT OAK, PROTECT AND PRESERVE THROUGHOUT CONSTRUCTION, SEE CIVIL PACKAGE
  2. DRINKING FOUNTAIN WITH BOTTLE FILLER, REFER TO AG400/4 FOR TYPICAL ELEVATIONS FOR ACCESSIBLE UNIT
  3. COORDINATE MASONRY OPENING WITH APPROVED FIREPLACE
  4. PT. WOOD BENCH SEAT
  5. OUTLINE OF ROOF ABOVE

DATE	MARCH 24, 2023
PROJECT STATUS	CONFORMANCE SET
JOB	19-028.000
SHEET NAME	NOTED FLOOR PLAN
SHEET NO.	01

AG130

WALL TYPE LEGEND

TYPE E6.1 SCREEN SYSTEM WITH HIGH-STRENGTH SCREEN MESH AT ANY LOCATION BELOW 36" AFF	TYPE E6.4 T&G WOOD 2x4 STUD, T&G WOOD 16" O.C.	E6.7 TYPE E6.7 LAP SIDING OVER INSULATED SHEATHING, 2x6 STUD WITH R-19 INSULATION, TILE SUBSTRATE, THINSET, CERAMIC WALL TILE 16" O.C.
TYPE E6.8 LAP SIDING OVER INSULATED SHEATHING, 2x6 STUD WALL, LAP SIDING OVER INSULATED SHEATHING 16" O.C.	TYPE E6.9 LAP SIDING OVER INSULATED SHEATHING, 2x6 STUD WITH R-19 INSULATION, T&G WOOD OVER 3/4" PLYWOOD 16" O.C.	TYPE E6.10 T&G WOOD OVER INSULATED SHEATHING, 2x6 STUD WITH R-19 INSULATION 1/2" PLYWOOD 16" O.C.
TYPE E6.11 T&G WOOD OVER INSULATED SHEATHING, 2x6 STUD WALL, 1/2" PLYWOOD 16" O.C.	TYPE E6.12 LAP SIDING OVER INSULATED SHEATHING, 2x6 STUD WITH R-19 INSULATION 1/2" PLYWOOD 16" O.C.	TYPE E6.8 8" CAST-IN-PLACE BOARD-FORMED CONCRETE WALL
TYPE E6.13 8x8x16 CMU WALL FILLED SOLID	TYPE A6.4 T&G WOOD OVER 3/4" PLYWOOD, 2x6 STUD WITH SOUND ATTENUATION, T&G WOOD OVER 3/4" PLYWOOD 16" O.C.	TYPE A6.5 T&G WOOD OVER 3/4" PLYWOOD, DOUBLE 2x6 STUD WITH SOUND ATTENUATION, T&G WOOD OVER 3/4" PLYWOOD 16" O.C.
TYPE A6.6 TILE SUBSTRATE, THINSET, CERAMIC WALL TILE, DOUBLE 2x6 STUD WITH SOUND ATTENUATION, TILE SUBSTRATE, THINSET, CERAMIC WALL TILE 16" O.C.	TYPE A6.7 1/2" PLYWOOD, DOUBLE 2x6 STUD WITH R-19 INSULATION 1/2" PLYWOOD 16" O.C.	

WALL TYPE LEGEND  
MAINTENANCE SHED  
02  
3/4" = 1'-0"





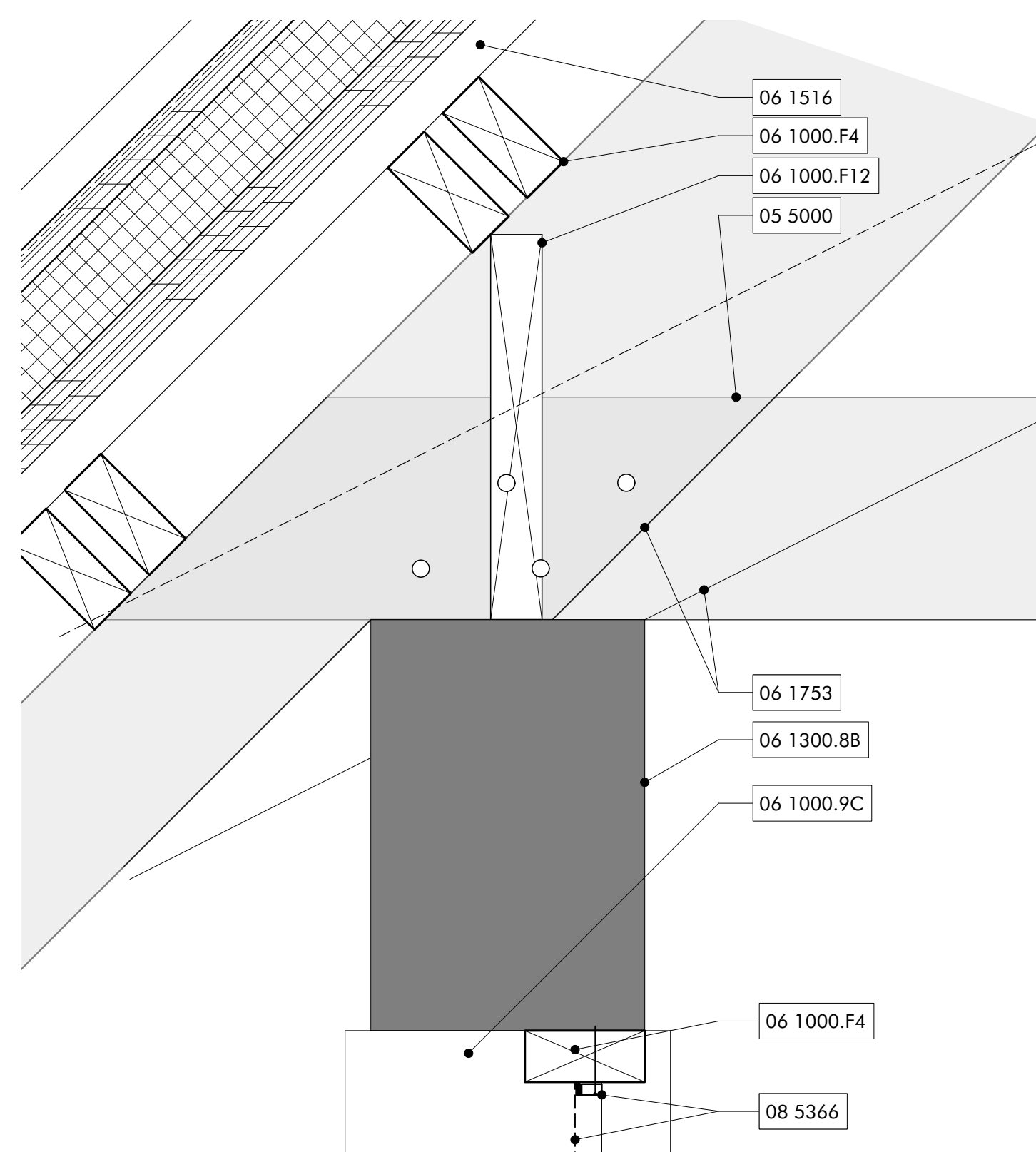




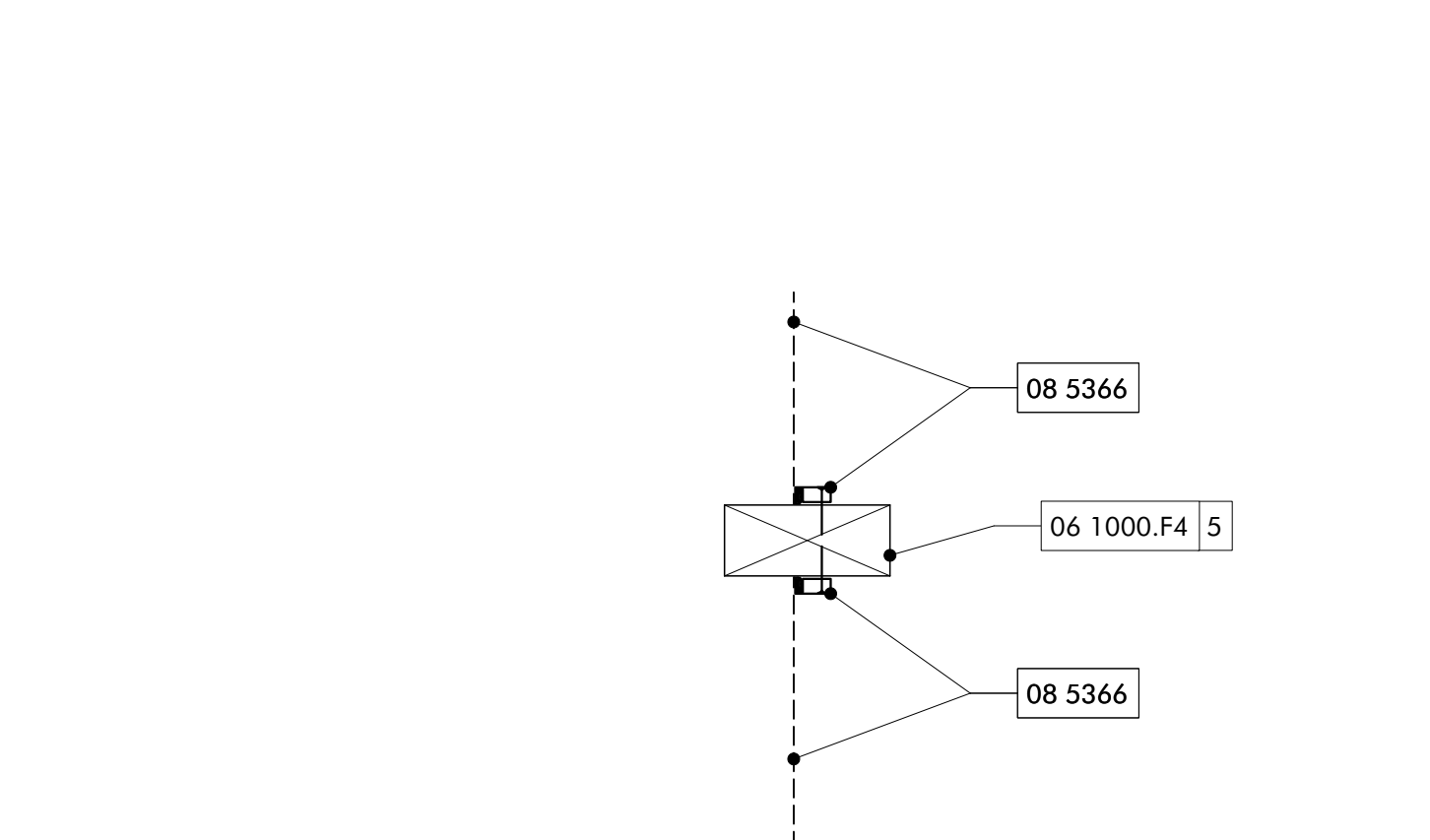




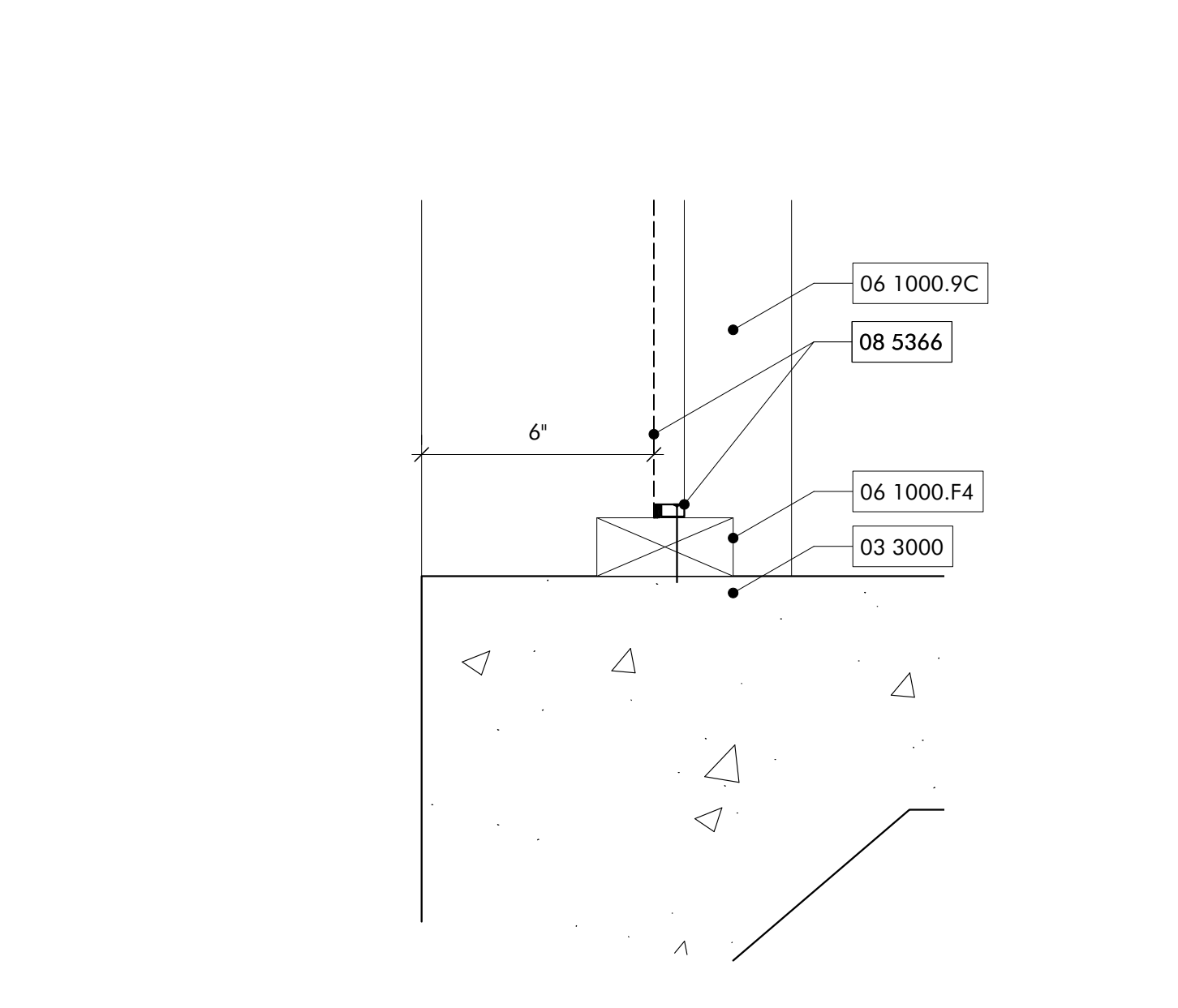




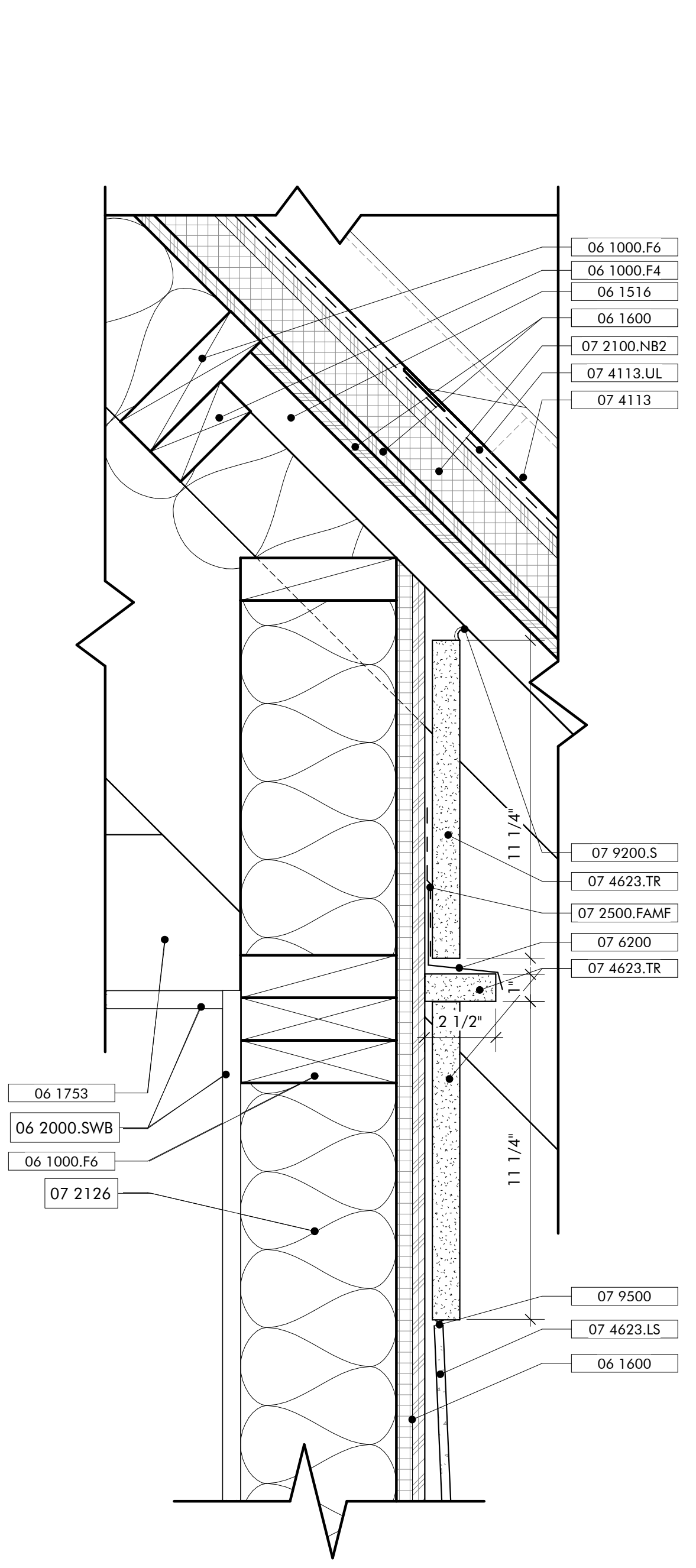
**SCREEN SYSTEM HEAD** **08**  
3" = 1'-0"



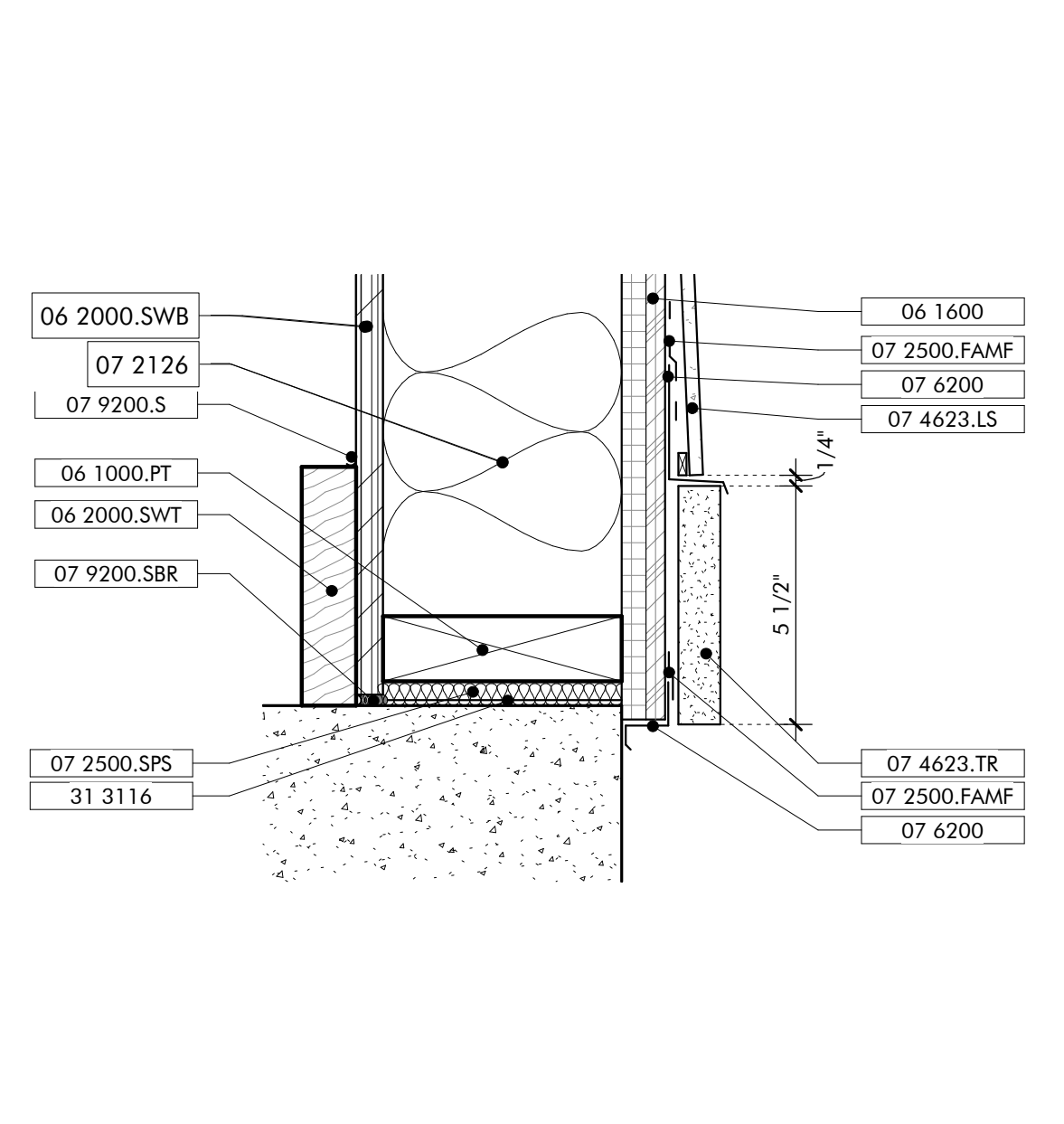
**SCREEN SYSTEM TRANSOM** **07**  
3" = 1'-0"



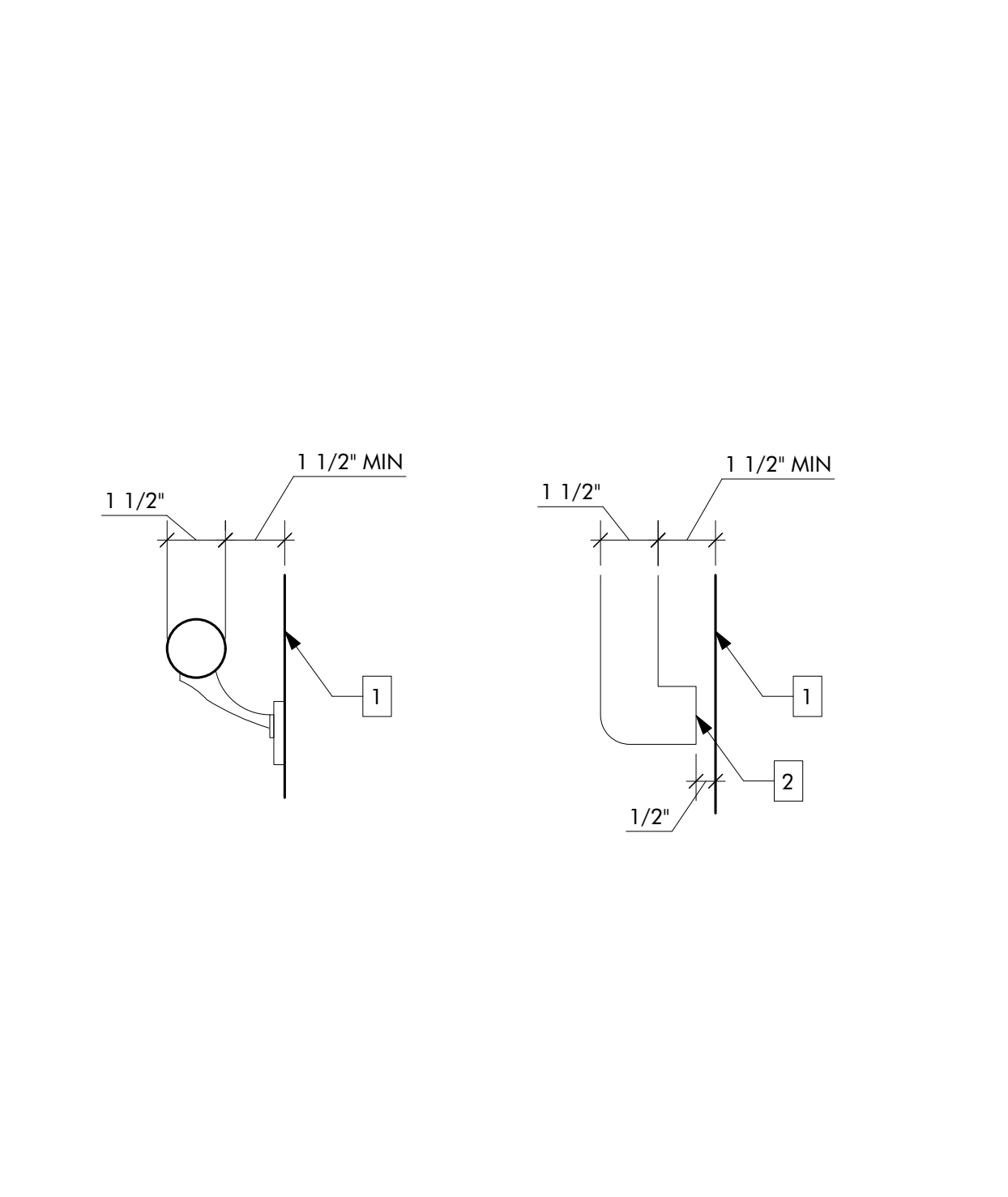
**SCREEN SYSTEM THRESHOLD** **04**  
3" = 1'-0"



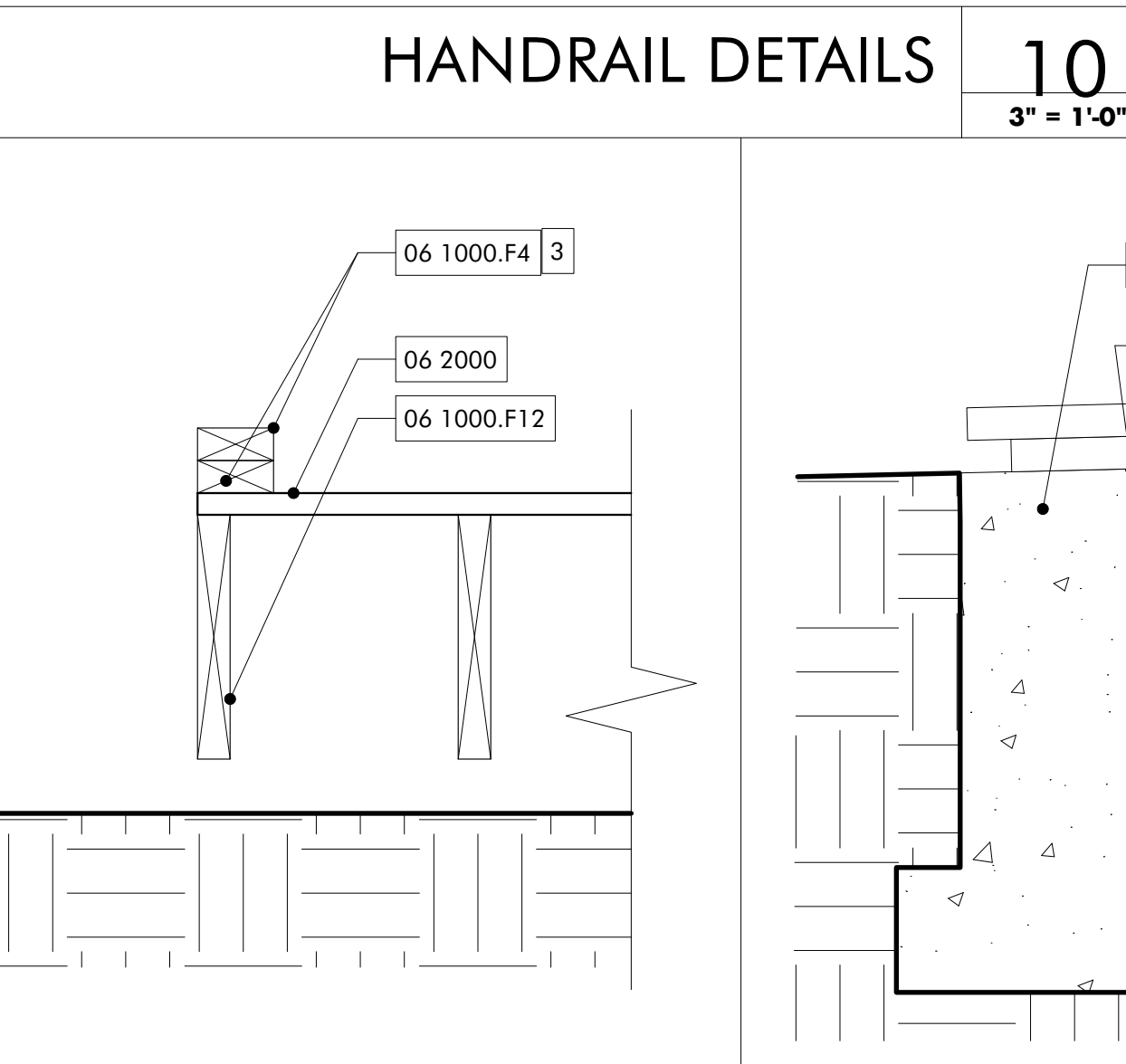
**TYP ROOF SOFFIT** **06**  
3" = 1'-0"



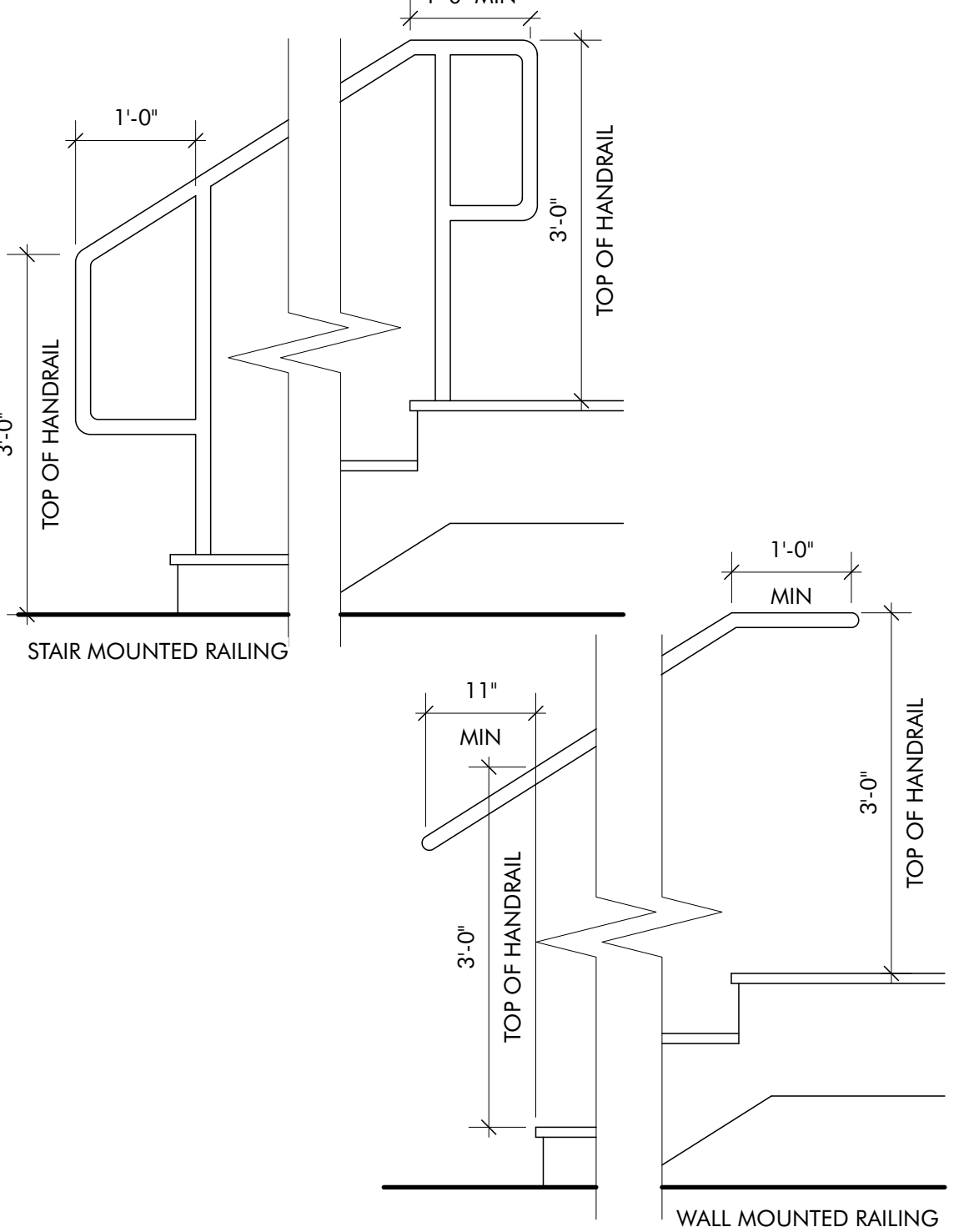
**TYP WALL SILL SLAB EDGE** **03**  
3" = 1'-0"



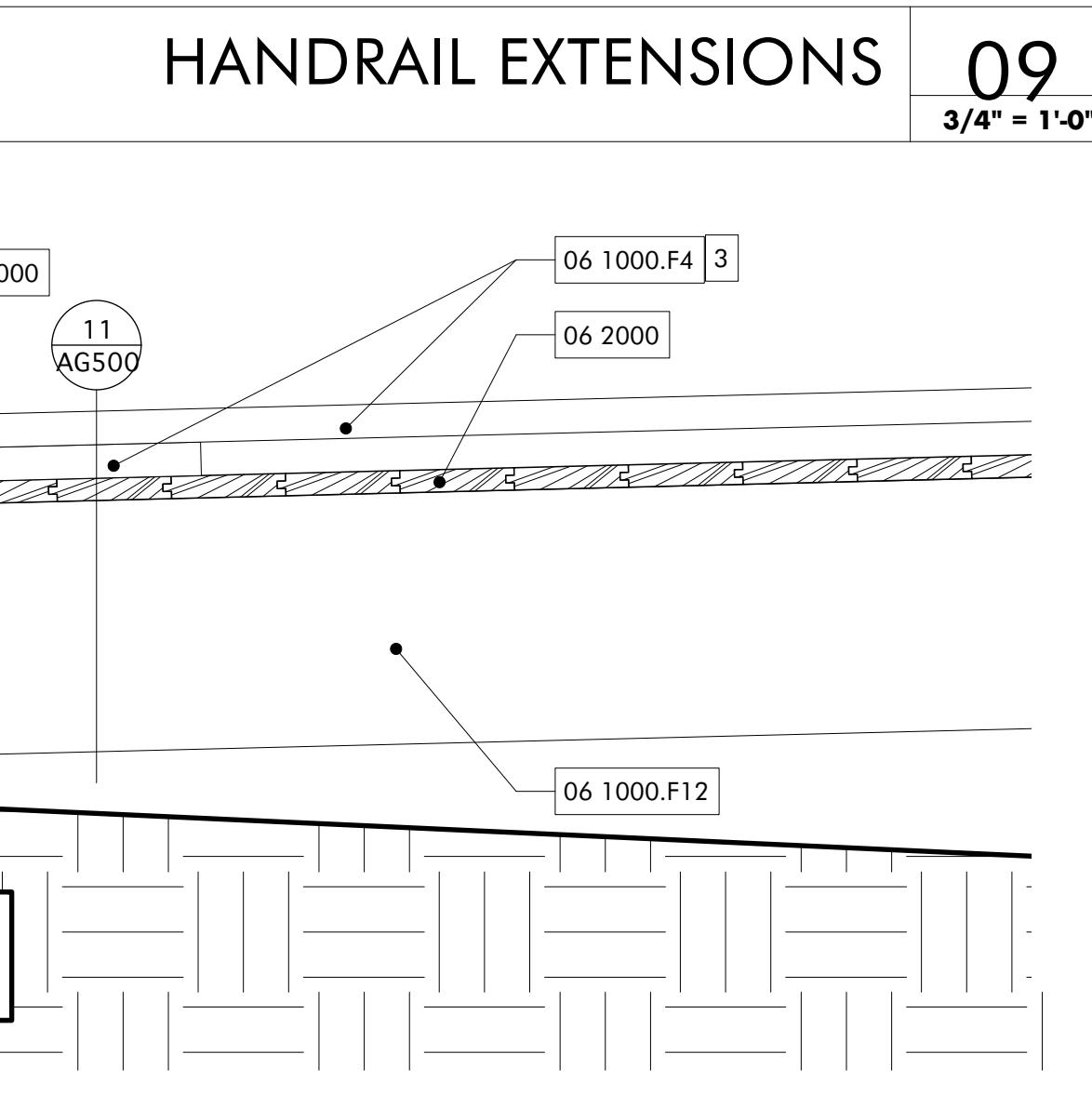
**HANDRAIL DETAILS** **10**  
3" = 1'-0"



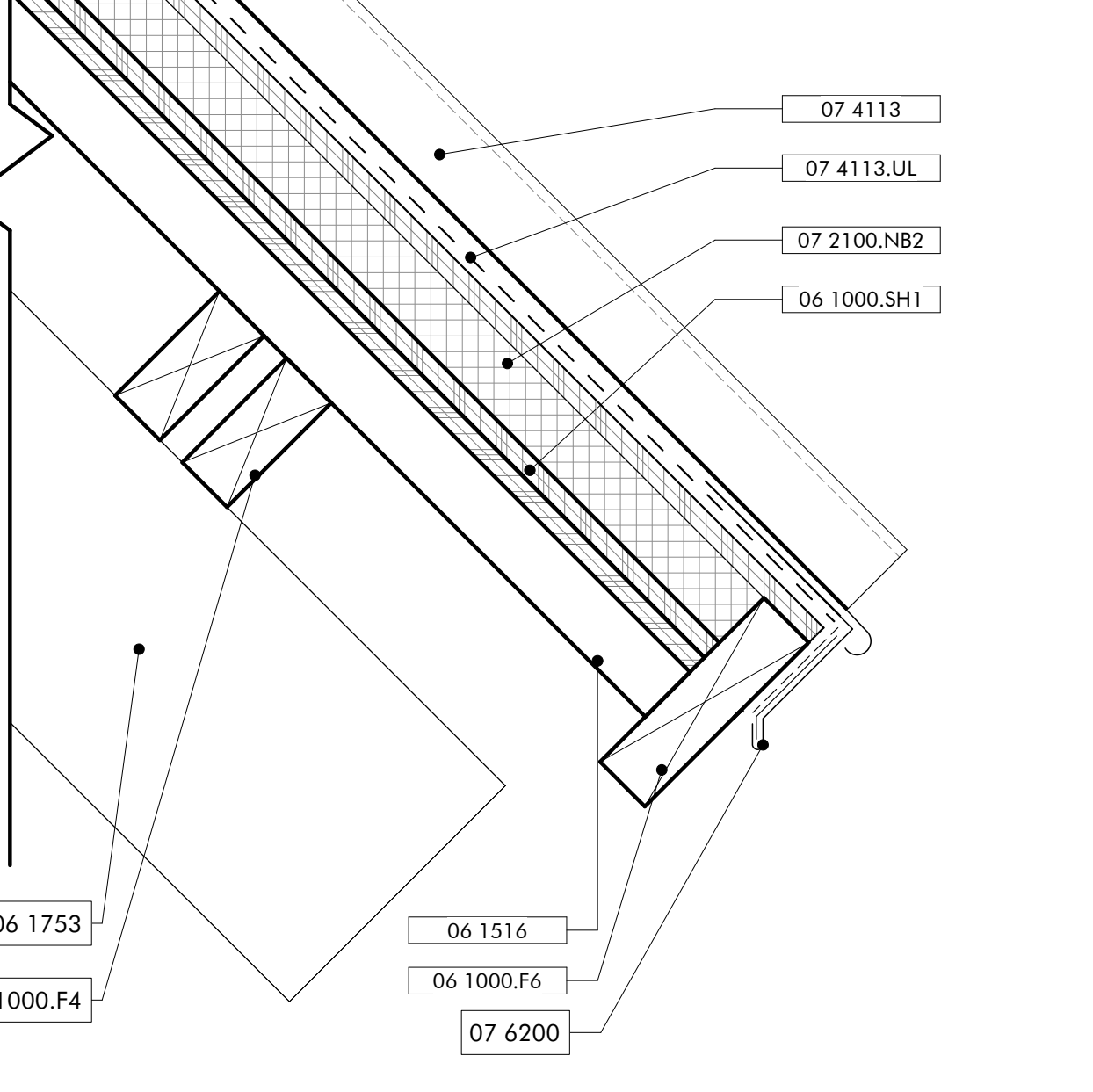
**RAMP DETAIL** **11**  
1 1/2" = 1'-0"



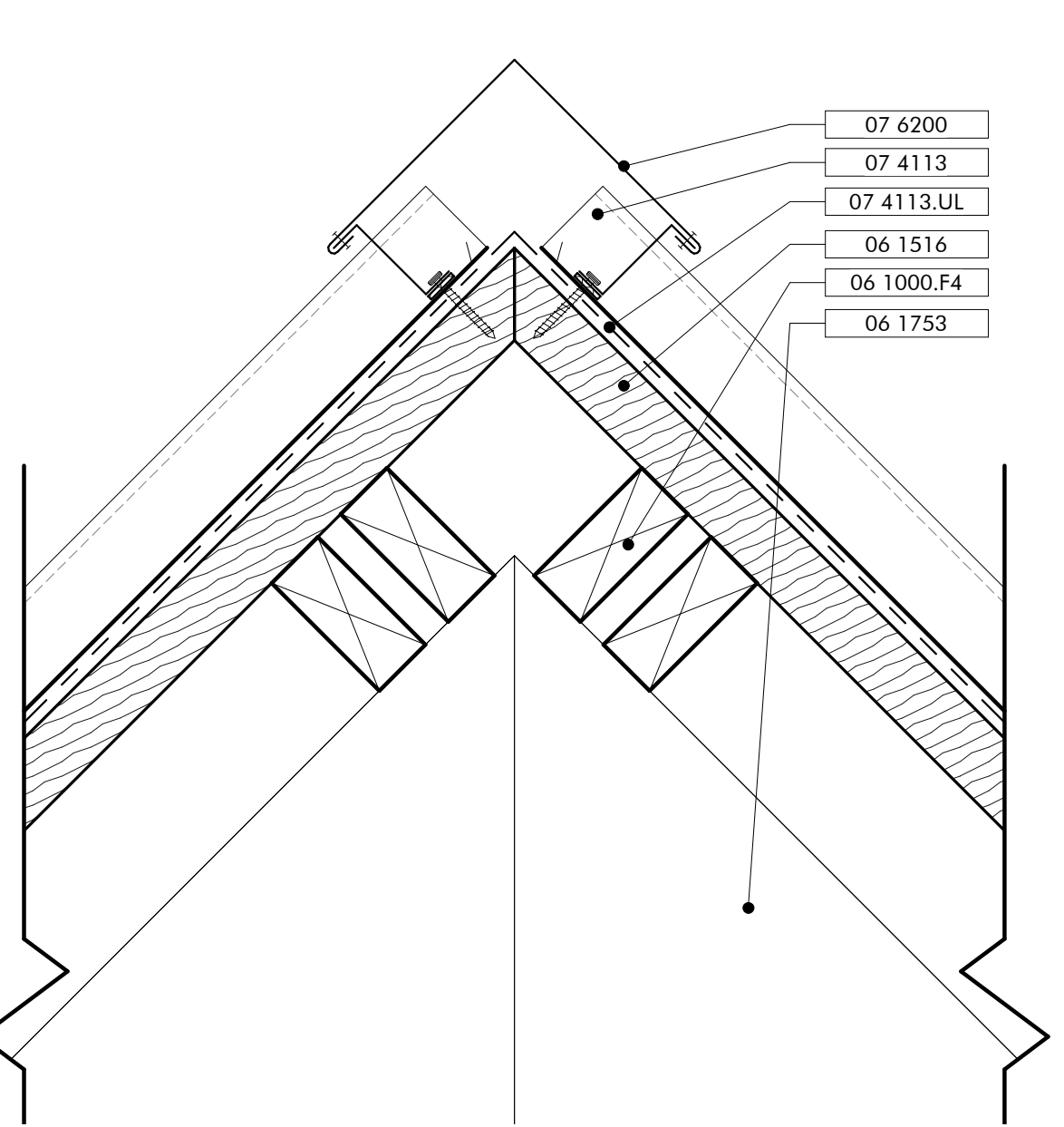
**HANDRAIL EXTENSIONS** **09**  
3/4" = 1'-0"



**RAMP SECTION** **05**  
1 1/2" = 1'-0"



**ROOF EAVE** **02**  
3" = 1'-0"



**ROOF RIDGE** **01**  
3" = 1'-0"

**KEYNOTES**

03 3000	Cast-in-Place Concrete - See Structural for Reinforcement
05 5000	Metal Fabrications
06 1000.9C	9.5x9.5 Glued-Laminated Column
06 1000.F12	2x12 Framing
06 1000.F4	2x4 Framing
06 1000.F6	2x6 Framing
06 1000.PT	Pressure Treated Sill Plate
06 1000.SH1	1/2" Plywood Sheathing
06 1300.BB	8x12 Beam
06 1516	Wood Roof Decking
06 1600	Sheathing
06 1753	Shop-Fabricated Wood Trusses
06 2000	Finish Carpentry
06 2000.SWB	Stained Wood Boards
06 2000.SWT	Stained Wood Trim
07 2100.NB2	2" Nail Base Rigid Insulation Board
07 2126	Blown Insulation
07 2500.FAMF	Fluid Applied Membrane Flashing
07 2500.SPS	Sill Plate Sealer
07 4113	Metal Roof Panels
07 4113.LUL	Roof Underlayment
07 4623.LS	Engineered Wood Lap Siding
07 4623.TR	Engineered Wood Trim
07 6200	Sheet Metal Flashing and Trim
07 9200.S	Sealant
07 9200.SBR	Sealant and Backer Rod
07 9500	Expansion Control
08 5366	Vinyl Screen System
31 3116	Termite Control

**GENERAL NOTES**

1. ALL EXPOSED WOOD TO BE STAINED, SEE SPECIFICATIONS SECTION 09 9300

**SHEET SPECIFIC NOTES**

1. FACE OF STRUCTURAL POST
2. ALL HANDRAILS SHALL RETURN TO POST, WALL OR LEAVE NO MORE THAN 36" SPACE BETWEEN
3. 2X4 BUMBER SUPPORTS SHALL BE INSTALLED TO LEAVE NO MORE THAN 36" SPACE BETWEEN
4. RAMP SUPPORT, SEE STRUCTURAL PACKAGE
5. 2x6 IN LIEU OF 2X4 AT GUARDRAIL HEIGHT

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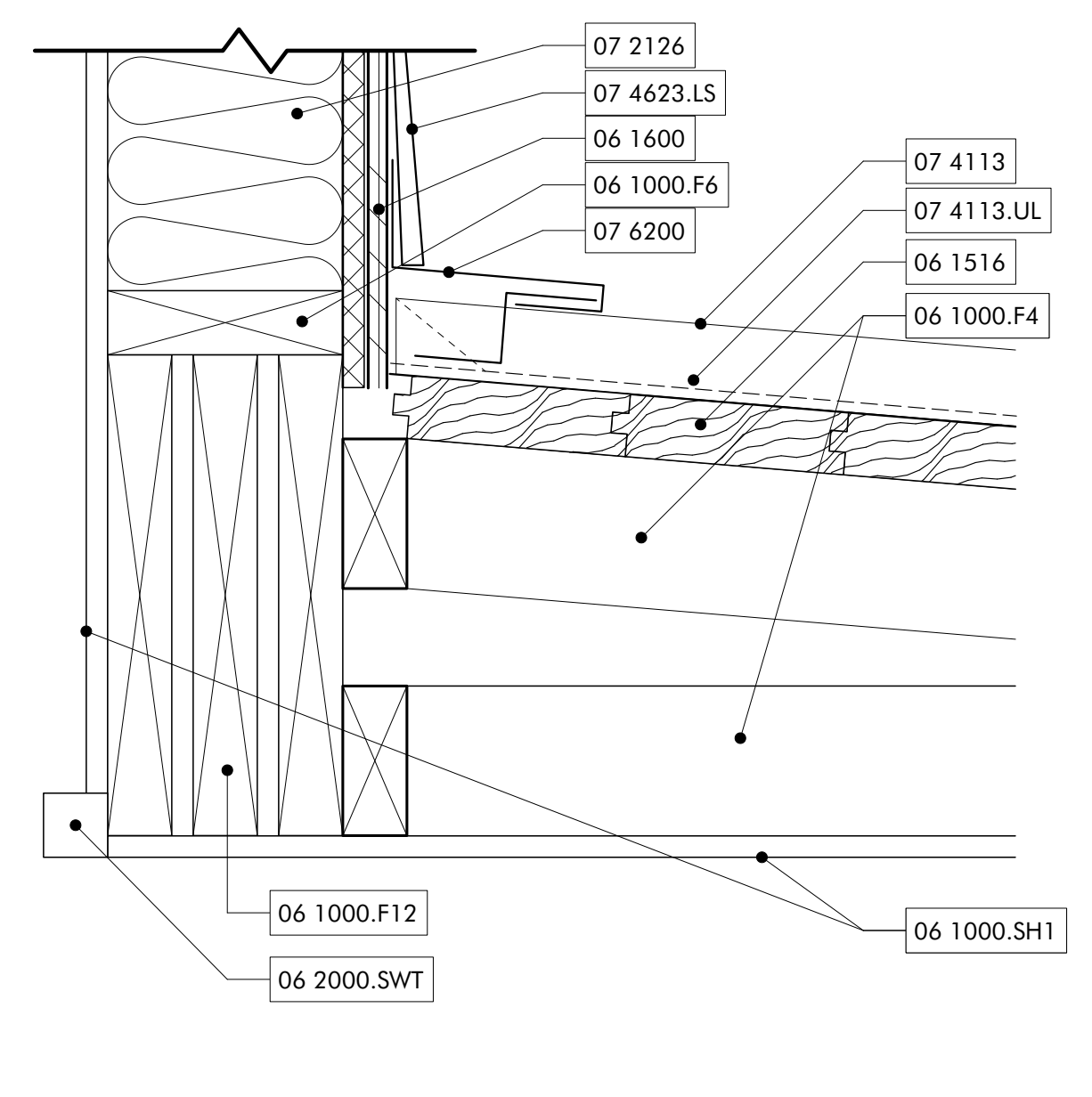
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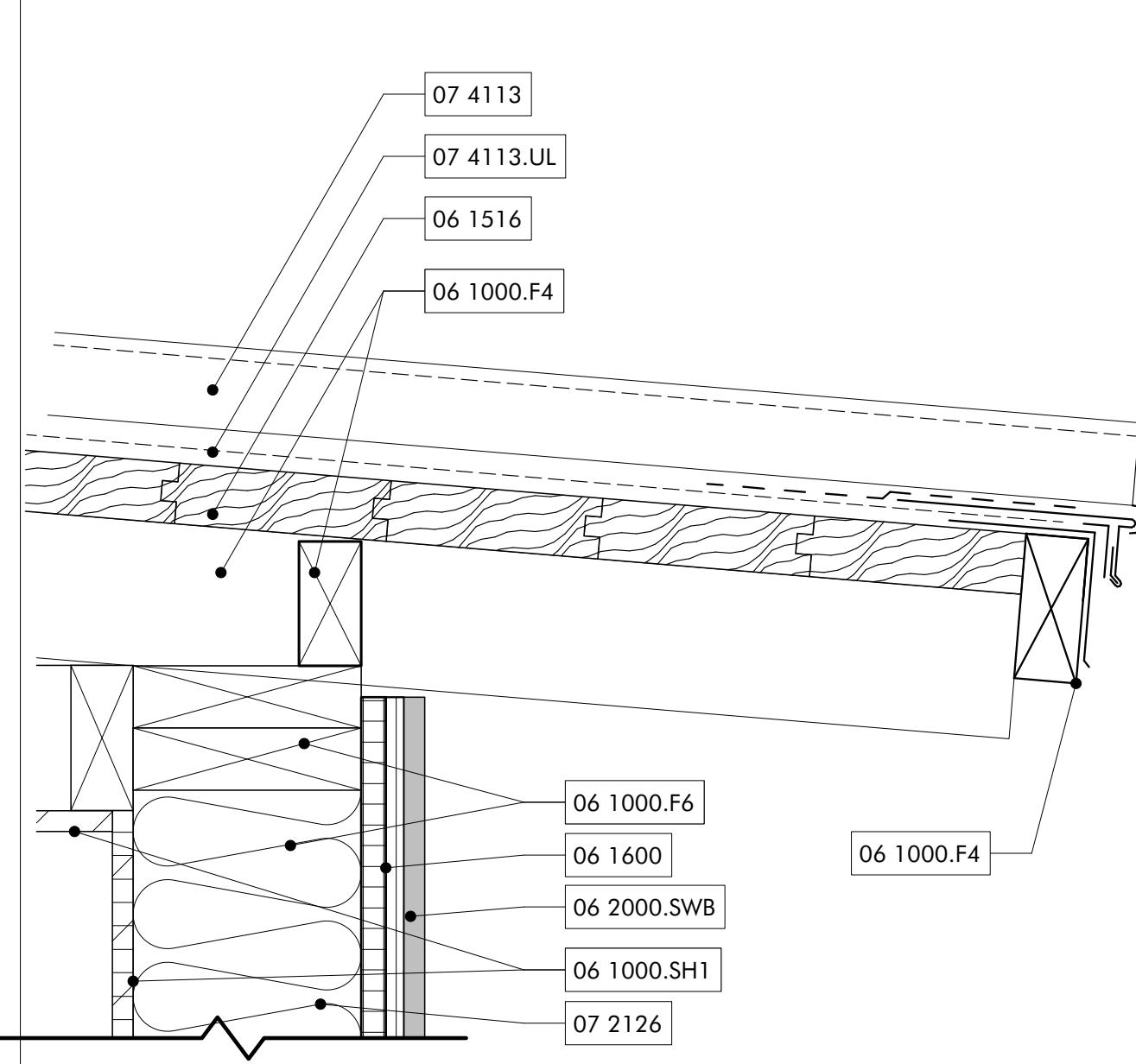
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GATHERING HUB PACKAGE  
GULF SHORES, ALABAMA

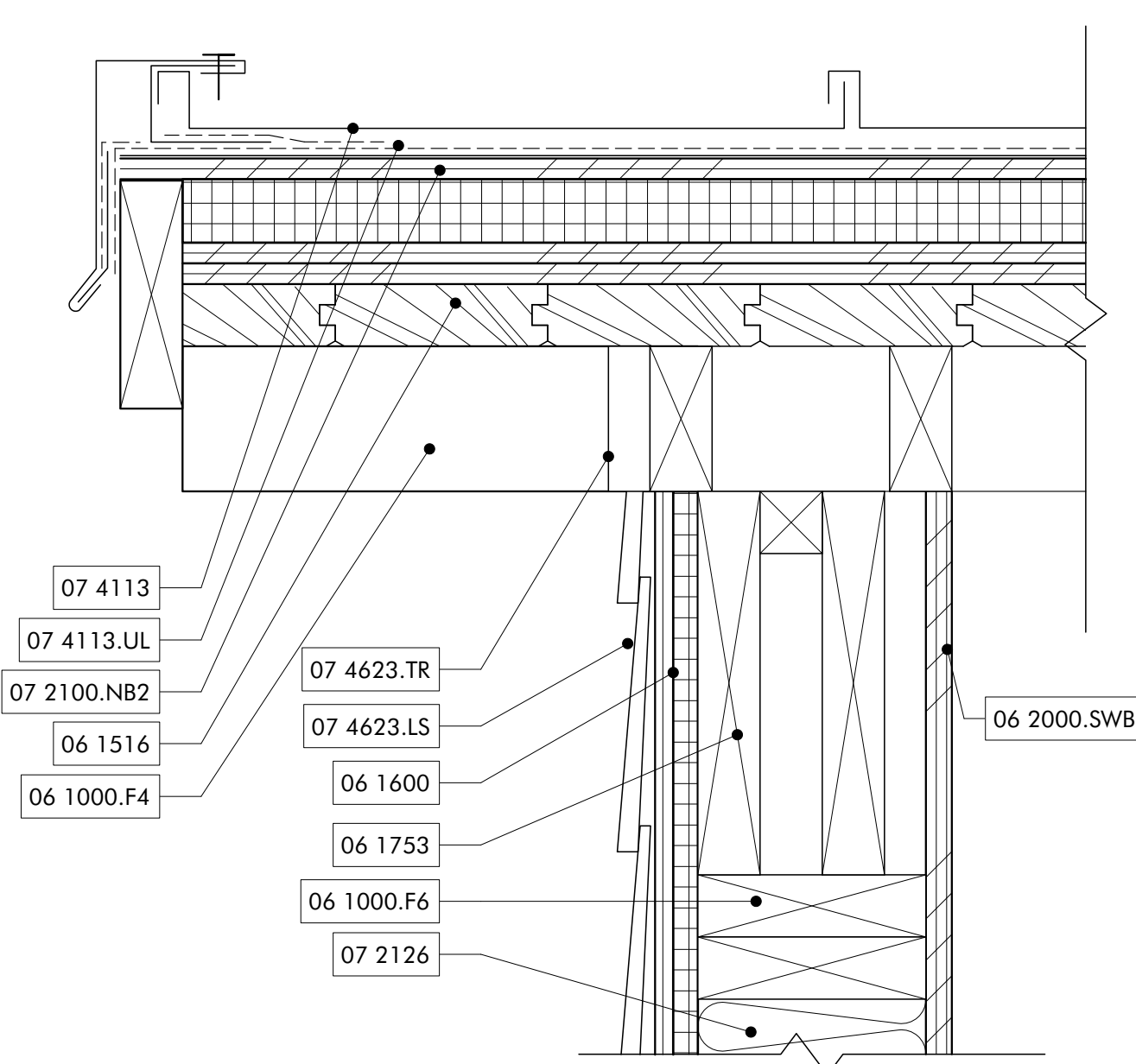
NUMBER	
REVISION	
DATE	
NO.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	EXTERIOR DETAILS
SHEET NO.	AG500



CEILING DETAIL 12  
1 1/2" = 1'-0"



ROOF/CEILING AT CLASSROOM 11  
1 1/2" = 1'-0"



HIGH ROOF RAKE AT RESTROOM 09  
3" = 1'-0"

- KEYNOTES
- 06 1000.F12 2x12 Framing
  - 06 1000.F4 2x4 Framing
  - 06 1000.F6 2x6 Framing
  - 06 1000.F8 2x8 Framing
  - 06 1000.HD Header - See Structural
  - 06 1000.SH1 1/2" Plywood Sheathing
  - 06 1516 Wood Roof Decking
  - 06 1600 Sheathing
  - 06 1753 Shop-Fabricated Wood Trusses
  - 06 2000.SWB Stained Wood Boards
  - 06 2000.SWT Stained Wood Trim
  - 07 2100.NB2 2" Nail Base Rigid Insulation Board
  - 07 2126 Blown Insulation
  - 07 2500 Weather Barriers
  - 07 2500.FAMF Fluid Applied Membrane Flashing
  - 07 4113 Metal Roof Panels
  - 07 4113.UL Roof Underlayment
  - 07 4623.CB Engineered Wood Corner Board
  - 07 4623.LS Engineered Wood Lap Siding
  - 07 4623.TR Engineered Wood Trim
  - 06 2000 Sheet Metal Flashing and Trim
  - 07 6200.RCF Reglet and Counterflashing
  - 07 9500 Expansion Control

NOT FOR CONSTRUCTION

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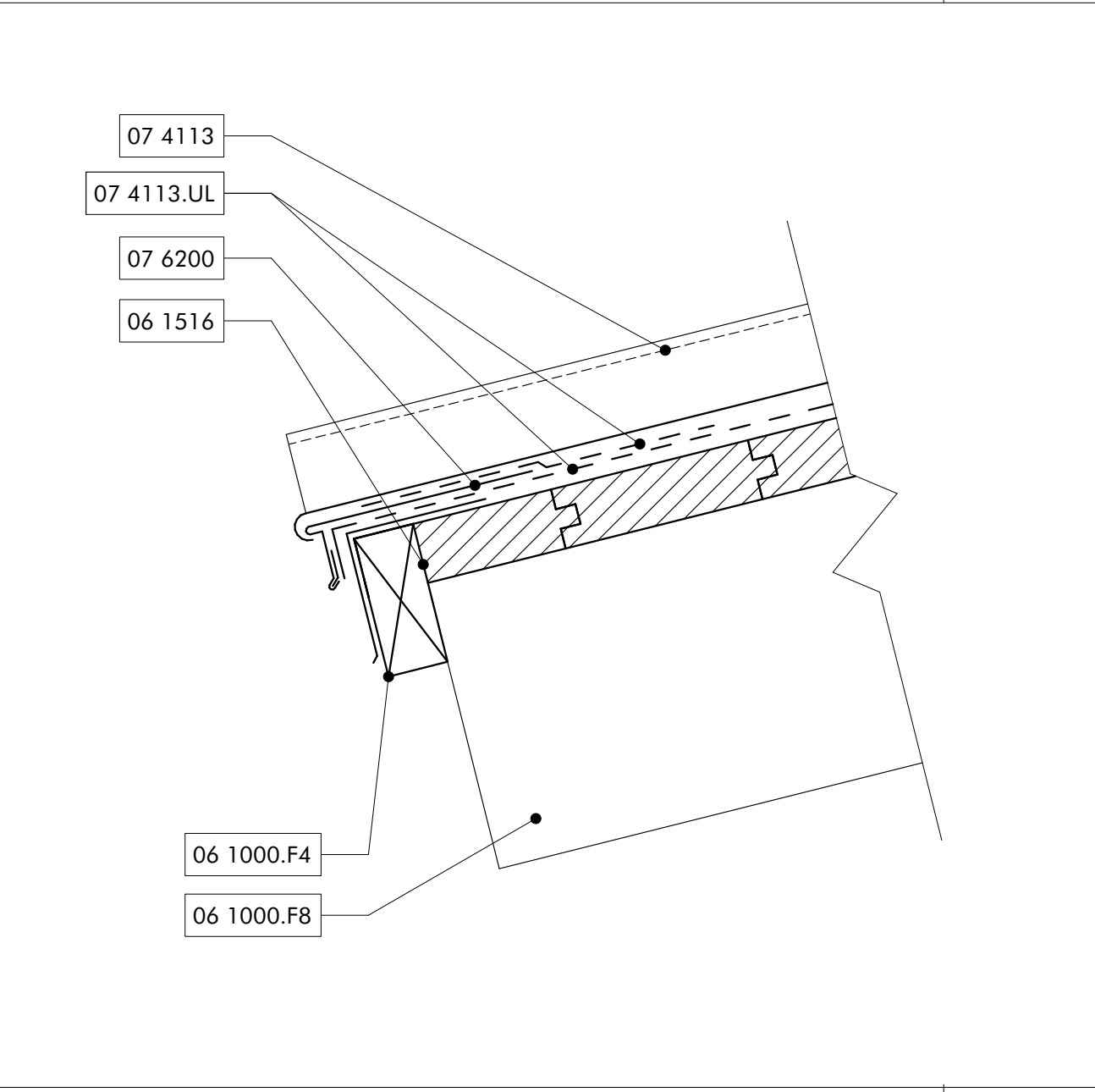
WATERSHED Building Sustain ability

302 Magnolia Avenue  
Fairhope, AL 36532  
p 251.929.0514

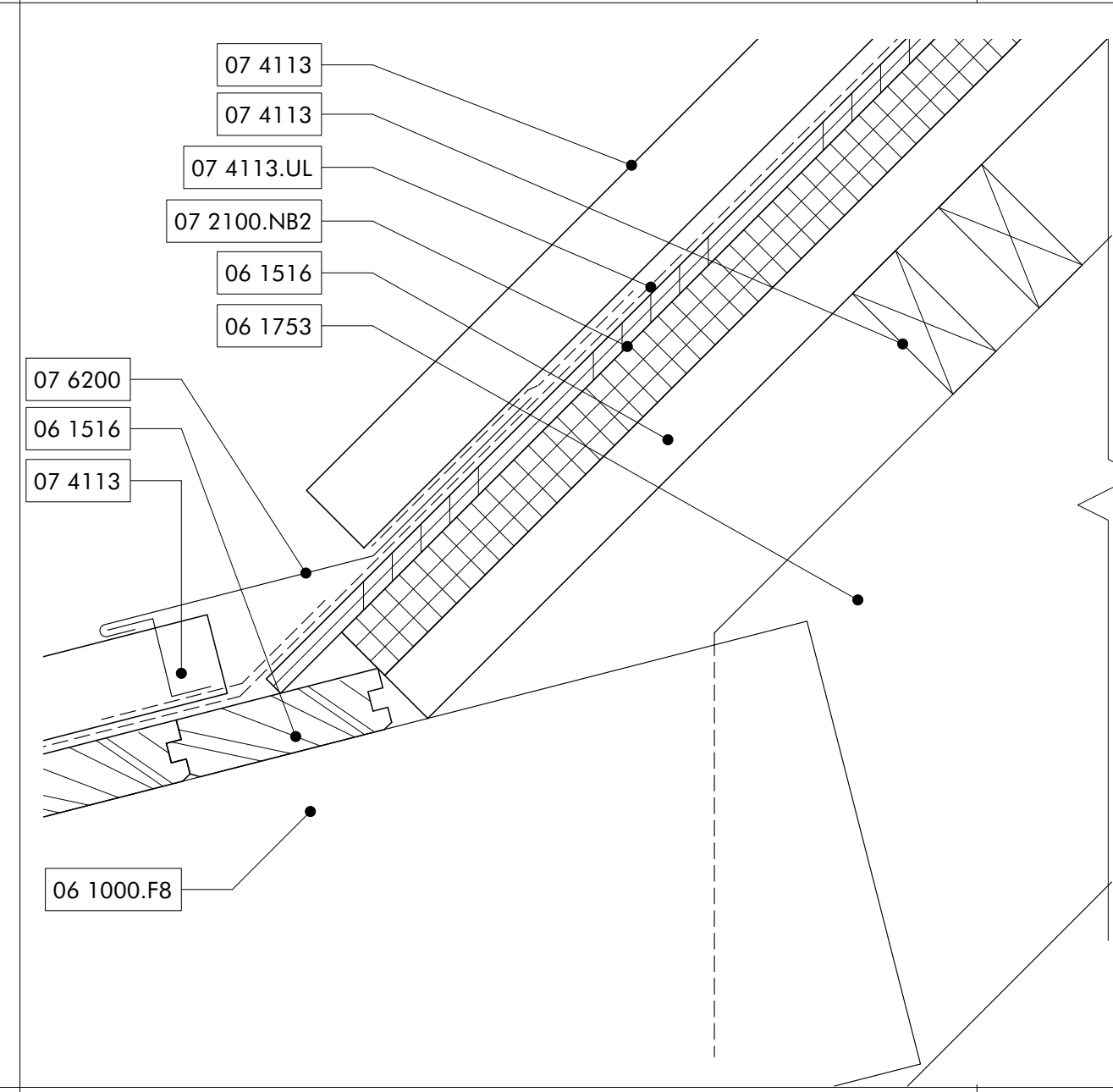
**GULF COAST CENTER**  
FOR ECOTOURISM & SUSTAINABILITY  
GATHERING HUB PACKAGE  
GULF SHORES, ALABAMA

- GENERAL NOTES
1. ALL EXPOSED WOOD TO BE STAINED, SEE SPECIFICATIONS SECTION 09 9300

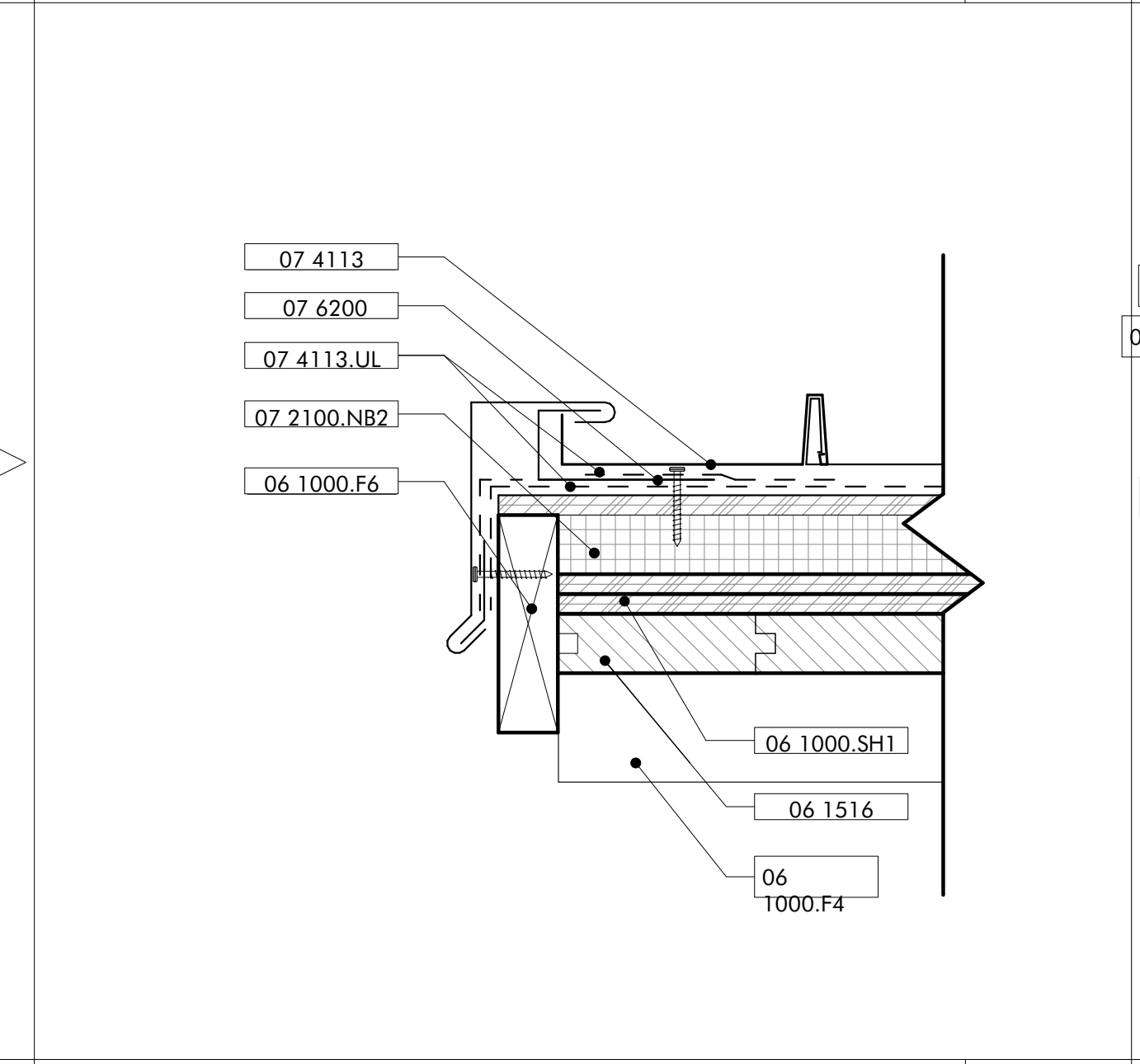
- SHEET SPECIFIC NOTES
1. ROOF FRAMING - REFER STRUCTURAL DRAWINGS
  2. CHIMNEY FLUE TERMINATION CAP
  3. METAL CHIMNEY FLUE
  4. REQUIRED CLEARANCE TO COMBUSTIBLES



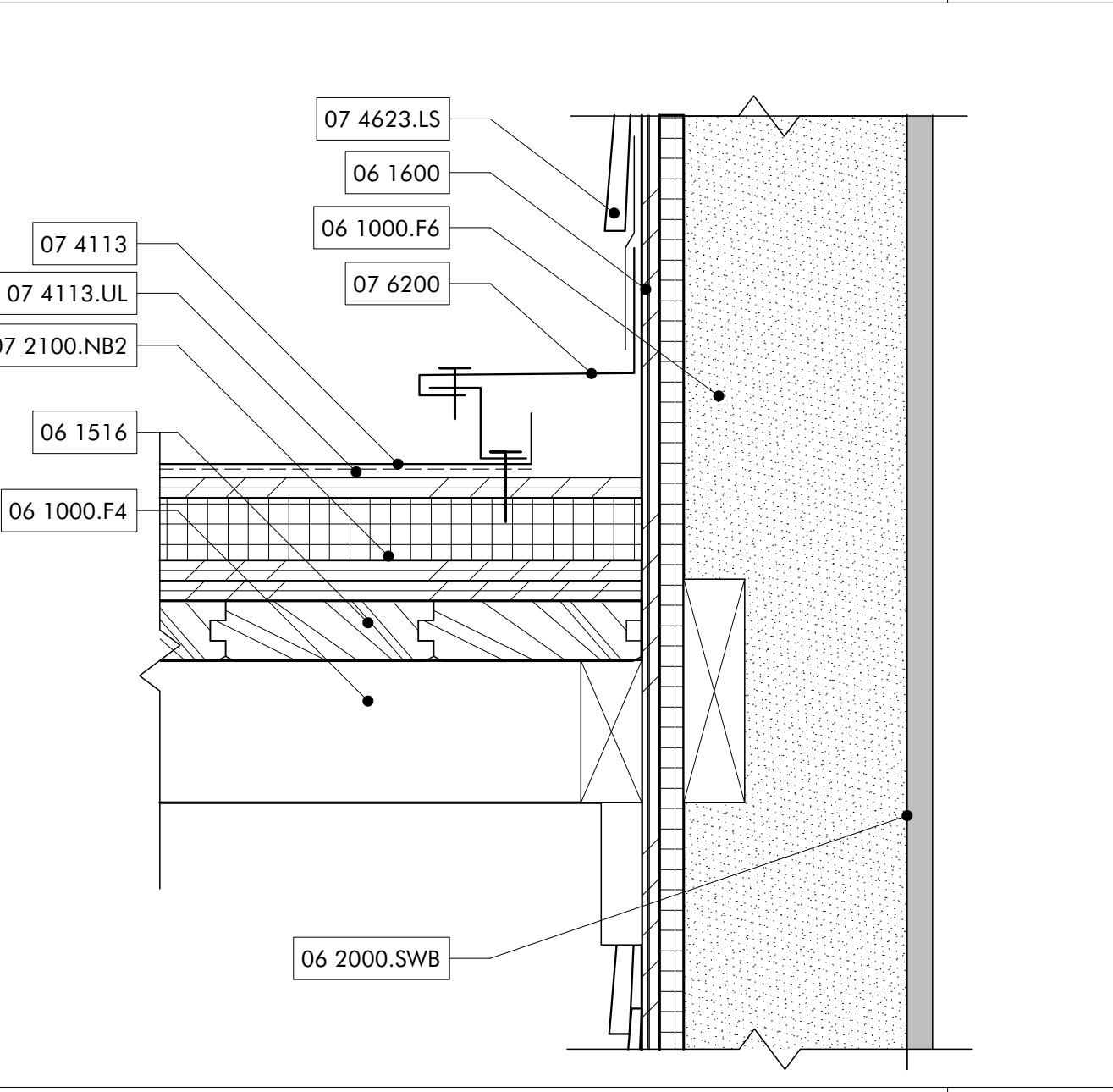
ROOF EAVE PORCH 08  
3" = 1'-0"



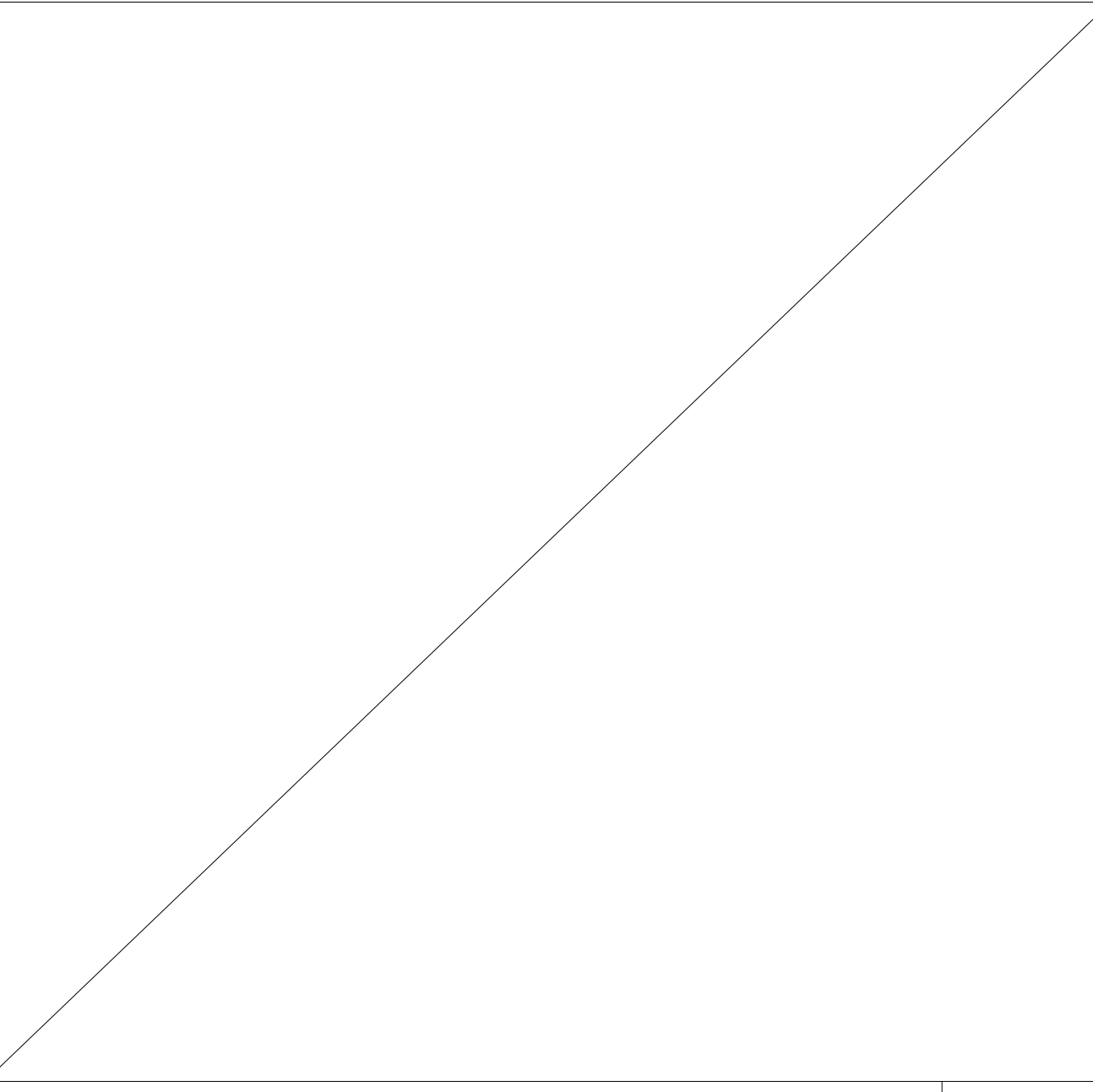
ROOF SLOPE CHANGE 07  
3" = 1'-0"



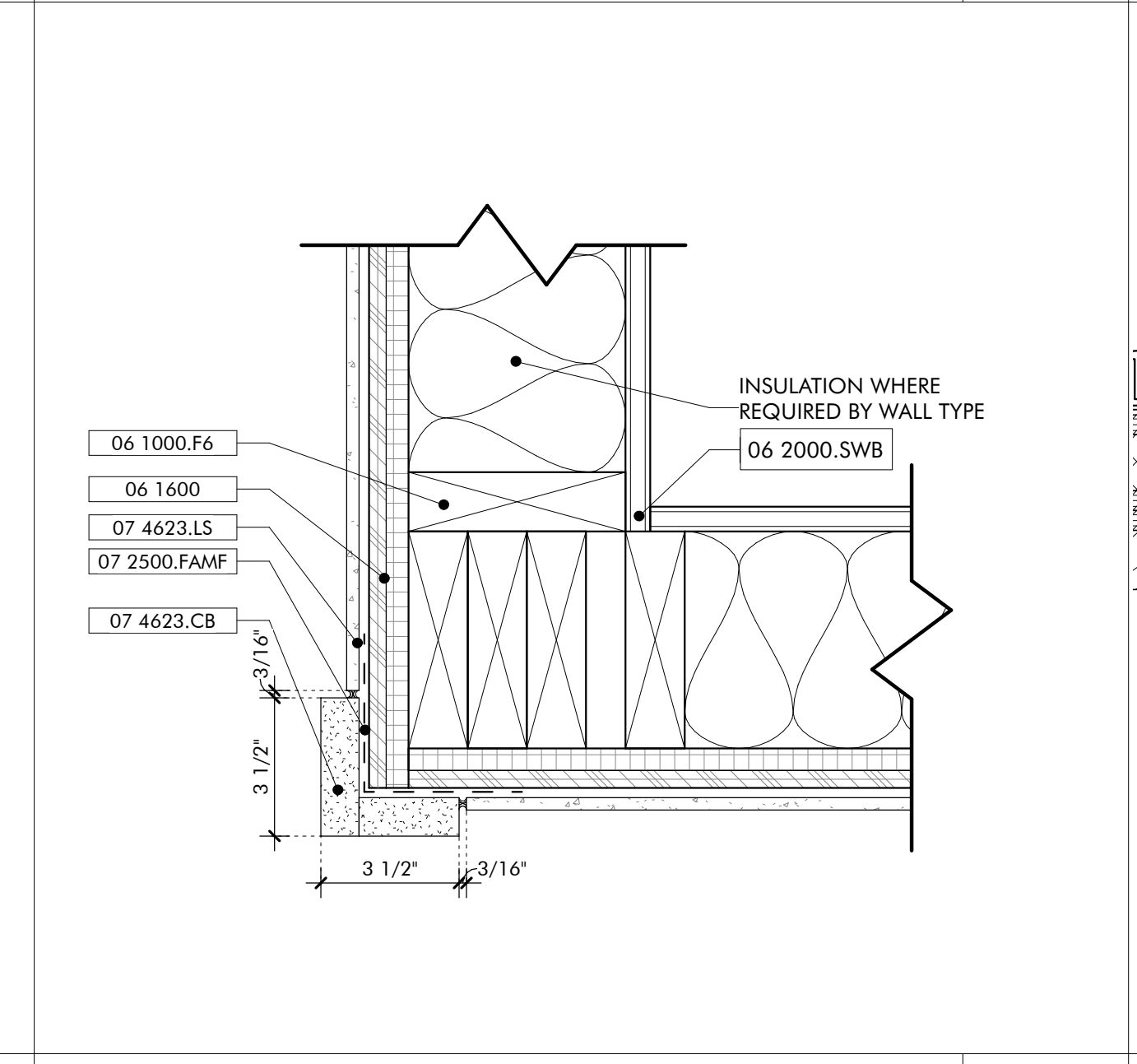
GABLE END ROOF RAKE 06  
3" = 1'-0"



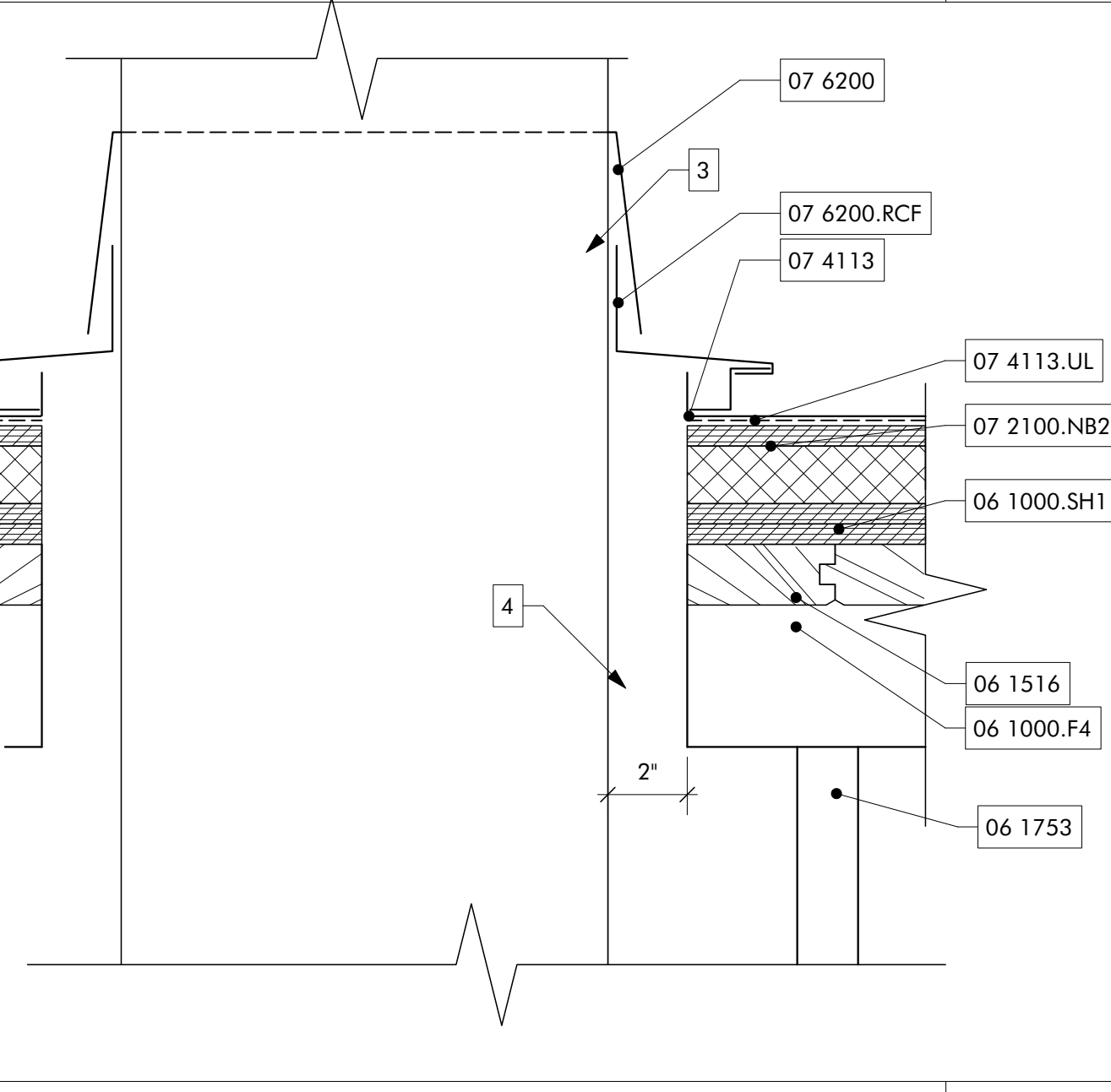
ROOF RAKE AT RESTROOM WALL 05  
3" = 1'-0"



WALL CORNER INSIDE 03  
1 1/2" = 1'-0"



WALL CORNER OUTSIDE 02  
3" = 1'-0"



FLASHING DETAIL @ CHIMNEY 01  
3" = 1'-0"

N/A 04  
3" = 1'-0"

INTERIOR	
REVISION	
DATE	
NO.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	EXTERIOR DETAILS
SHEET NO.	AG501





GENERAL REQUIREMENTS:

- 1. THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE INTERNATIONAL BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE INTERNATIONAL BUILDING CODE.
2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
3. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND COORDINATE STRUCTURAL DIMENSIONS, ELEVATIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS, ELEVATIONS, AND SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO THE FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
4. STRUCTURAL DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY AND SHALL APPLY FOR LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. IF THERE IS A QUESTION REGARDING THE APPLICABILITY OF A DETAIL, CONTACT THE ARCHITECT/ENGINEER IN WRITING REQUESTING CLARIFICATION.
5. COORDINATE AND VERIFY ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. STRUCTURAL DRAWINGS ONLY SHOW OPENINGS RELATIVE TO THE STRUCTURE.
6. COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC. COORDINATE FLOOR JOINTS WITH ARCHITECTURAL FLOOR FINISHES.
7. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER FOR DIMENSIONS NOT PROVIDED.
9. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION RELATED TO SAFETY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS.
11. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.
12. WHERE SPECIFIED, POST INSTALLED ANCHORING SYSTEMS SUCH AS MANUFACTURED BY SIMPSON OR H.L.T. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE DRILLING, CLEANING, AND PREPARATION OF HOLES. WHERE ADHESIVE ANCHORS ARE SHOWN, SPECIAL ATTENTION SHALL BE GIVEN TO THE REQUIRED MIXING, APPLICATION, AND CURING TIME OF THE ADHESIVE SPECIFIED.
13. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY, OR OTHERWISE INTERFERE WITH, THE INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATIONS OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD DAMAGE TO THE NEW WORK (e.g. DIFFERENTIAL SETTLEMENT).

DESIGN CRITERIA:

- 1. GENERAL BUILDING CODE:
1. INTERNATIONAL BUILDING CODE, IBC 2021 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.
2. DESIGN LOAD CRITERIA:
1. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
3. CONCRETE:
1. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.
4. STRUCTURAL STEEL:
1. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360.
5. TIMBER:
1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL, NDS.

DESIGN LOADS:

- 1. DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
2. LIVE LOADS (PSF):
1. ROOF Ss 20
2. STAIRS, EXIT WAYS 100
3. FLOOR 100
3. LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE BUILDING CODE WHEN PERMITTED.
4. SNOW LOADS (PSF):
1. GROUND SNOW LOAD (psf) 0.0
5. WIND LOADS:
1. DESIGN WIND SPEED (V) 160 MPH
2. ALL OBLIQUE WIND SPEED (Vwind) 124 MPH
3. RISK CATEGORY II
4. EXPOSURE CATEGORY C
5. PRESSURE COEFFICIENT (ENCLOSED) +/- 0.18
6. PRESSURE COEFFICIENT (PARTIALLY ENCLOSED) +/- 0.55
7. PRESSURE COEFFICIENT (OPEN) +/- 0.90
6. SEE DRAWINGS FOR EXTERIOR COMPONENT AND CLADDING WIND PRESSURES, EDGE STRIP WIDTH "s", AND PRESURE COEFFICIENT USED.
7. THIS STRUCTURE IS LOCATED WITHIN A WIND BORNE DEBRIS REGION AND REQUIRES IMPACT RESISTANT GLAZING.
8. SEISMIC LOADS:
1. RISK CATEGORY II
2. IMPORTANCE FACTOR (Ie) 1.0
3. SOIL SITE CLASS D
4. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
1. Ss = 0.083
2. S1 = 0.054
5. DESIGN SPECTRAL RESPONSE ACCELERATIONS:
1. Sds = 0.088
2. Sd1 = 0.087
6. SEISMIC DESIGN CATEGORY B
7. SEISMIC RESPONSE COEFFICIENT (Cs) 0.059
8. RESPONSE MODIFICATION FACTOR (R) 1.5
9. DESIGN BASE SHEAR 0.059W
9. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
BASIC SEISMIC-FORCE-RESISTING SYSTEM: C6 - CANTILEVERED COLUMN SYSTEMS DETAILED TO CONFORM TO THE REQUIREMENTS FOR TIMBER FRAMES.

SPECIAL INSPECTIONS:

- 1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. AN APPROVED INSPECTOR WITH QUALIFICATIONS FACTORIAL TO THE BUILDING OFFICIAL SHALL PERFORM THE REQUIRED SPECIAL TESTS AND INSPECTIONS.
2. OBSERVATION BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE TESTING AND INSPECTIONS BY THE TESTING AGENCY OR THE SPECIAL INSPECTOR.
3. THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. THE COSTS OF OTHER INSPECTIONS AND TESTING SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE PAID FOR BY THE CONTRACTOR.
4. THE FOLLOWING DOCUMENTS HAVE BEEN PREPARED FOR THIS PROJECT AS A PART OF THE CONSTRUCTION DOCUMENTS:
1. STATEMENT OF SPECIAL INSPECTIONS
2. SCHEDULE OF SPECIAL INSPECTIONS
5. CONTRACTOR AND SUBCONTRACTORS ENGAGED IN CONSTRUCTION OF MAIN WIND FORCE OR SEISMIC FORCE RESISTING SYSTEMS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE IBC.
6. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
7. ALL REPEATED CERTIFICATIONS OF SPECIAL INSPECTIONS TO BE PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP SHALL BE SUBMITTED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING THESE REPORTS TO THE SPECIAL INSPECTOR, THE ARCHITECT, AND THE STRUCTURAL ENGINEER IN A TIMELY MANNER.
8. THE SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS AND SUBMIT THE PLAN TO THE BUILDING OFFICIAL AND TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
9. ALL SPECIAL INSPECTION REPORTS SHALL BE PREPARED BY AND BEAR THE SEAL OF THE SPECIAL INSPECTOR AND ALL REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE STRUCTURAL ENGINEER. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL.
10. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL NONCONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER.
11. THE SPECIAL INSPECTOR, UPON COMPLETION OF THE WORK AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, SHALL SUBMIT A SIGNED AND SEALED FINAL REPORT DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES IN THE PRIOR REPORTS.

SHOP DRAWINGS AND SUBMITTALS:

- 1. THE USE OR REPRODUCTION OF THE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS NOT PERMITTED.
2. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC STANDARDS AS LISTED. THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
3. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE STRUCTURAL ENGINEER. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL.
4. SHOP DRAWINGS AND CALCULATIONS SUBMITTED AS PART OF A DELEGATED DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF THE PROJECT.
5. HARD COPY SHOP DRAWING SUBMITTALS: SUBMIT ALL SHOP DRAWINGS ON THREE PRINTS ONLY. ONE PRINT WILL BE RETURNED TO THE CONTRACTOR. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED. IF ADDITIONAL PRINTS ARE SUBMITTED, THEY WILL BE RETURNED UNMARKED.
6. ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
7. RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
8. SHOP DRAWINGS: SEE THE RELATED MATERIAL SECTION FOR THE REQUIRED SUBMITTALS AND SHOP DRAWINGS.

SOILS, SLABS, WALLS, AND SHALLOW FOUNDATIONS:

- 3. THE FOUNDATION AND SLAB ON GRADE DESIGN IS BASED ON CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY THOMPSON ENGINEERING TITLED "GULF COAST CENTER FOR ECOTOURISM AND SUSTAINABILITY PROJECT, PROJECT NO.20-1101-0049, DATED MARCH 22, 2021". THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS THEREIN.
4. MAX ALLOWABLE BEARING PER GEOTECHNICAL REPORT (PSF):
1. UNLESS NOTED OTHERWISE 2000
5. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH THE PRESSURES NOTED. THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
6. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
7. COMPACTED FILL SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
8. WHEN EXCAVATIONS APPROACH THE GROUND WATER TABLE, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2' BELOW THE EXCAVATION DURING CONSTRUCTION.
9. CONTRACTOR SHALL FOLLOW THE SITE WORK AND SUBGRADE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.
10. EARTH SUPPORTED SLAB:
1. SUBGRADE MODULUS (SHORT/LONG) 100/35 PCI
11. PROVIDE 4" COMPACTED GRANULAR FILL BENEATH ALL EARTH SUPPORTED SLABS. PROVIDE A 10 MIL MINIMUM VAPOR BARRIER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL.
12. PROVIDE 1/2" P.E.J. FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.
13. SEE PROJECT SPECIFICATIONS FOR FLOOR FLATNESS AND FLOOR LEVELNESS REQUIREMENTS.
14. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING.
15. HORIZONTAL BARS IN FOOTINGS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL INTERSECTIONS UNLESS NOTED OTHERWISE.
16. SUPPORT BOTTOM REINFORCING IN FOOTINGS WITH CONCRETE BRICKS OR PLASTIC CHAIRS SPACING A MAXIMUM OF 3'-0" EACH WAY. SUPPORTS SHALL BE POSITIONED TO PROVIDE A MINIMUM OF 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
17. CONSTRUCTION JOINTS IN CONTINUOUS FOOTINGS SHALL BE FORMED VERTICALLY WITH A CLASS B LAP IN HORIZONTAL REINFORCING.
18. POUR A 2" MUD MAT OF LEAN CONCRETE IN THE BOTTOM OF A FOOTING EXCAVATION THAT WILL BE EXPOSED TO RAIN.
19. ALL REINFORCING SHALL BE TIED IN PLACE PRIOR TO PLACING CONCRETE. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER.
20. WHERE ERECTION STEPS ARE REQUIRED, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.
21. WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCE. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.
22. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS AND FROM PREPARED SUBGRADERS AND SLABS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES.
23. DEWATER EXCAVATIONS AND REMOVE ANY WET MATERIAL PRIOR TO THE PLACING OF CONCRETE.
24. IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE AND ENGINEER IF UNUSUAL SOIL CONDITIONS ARE FOUND.

CONCRETE:

- 1. ALL CONCRETING OPERATIONS SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.
3. WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN PINE.
4. TRUSSES SPANNING GREATER THAN TWENTY-FOUR FEET: VISUALLY GRADED DIMENSIONED #1 SOUTHERN PINE.
5. SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE SHALL BE AS SPECIFIED ABOVE.
6. ALL PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) OR MICRONIZED COPPER AZOLE (MCA) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD.
7. PRESERVATIVE RETENTION:
1. 0.60 LBS/FT3 PERMANENT WOOD FOUNDATIONS
2. 0.40 LBS/FT3 GROUND CONTACT
3. 0.25 LBS/FT3 ABOVE GROUND
8. ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE PRESERVATIVE MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
9. DIMENSIONED LUMBER FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT ENDS, POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKS, BRIDGING, OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.
10. ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.
11. FLOOR SHEATHING: 3/4" TONGUE & GROOVE PLYWOOD OR OSB, APA SINGLE FLOOR RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 48/24. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS WITH JOINTS STAGGERED.
12. FLOOR SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 8 INCHES AT PANEL ENDS AND INTERMEDIATE SUPPORTS.
13. ROOF SHEATHING (TYPICAL): 15/32" PLYWOOD OR OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO TONGUE AND GROOVE WITH JOINTS STAGGERED.
14. ROOF SHEATHING NAILING, UNLESS NOTED: 16D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.
15. TONGUE AND GROOVE ROOF DECKING: PRESSURE TREATED 2x6 T&G SOUTHERN PINE NO. 1 GRADE SOLID TIMBER DECKING WITH TONGUE INSTALLED UP-SLOPE.
16. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHIP MADE COLD BENDS.
17. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLABS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
18. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC.
19. SEE CONCRETE COVER SCHEDULE FOR REQUIRED STEEL COVERAGE.
20. REINFORCING BAR PLACING ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
21. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED OTHERWISE.
22. IF ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE, PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES THROUGH ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
23. ADDITIONAL REINFORCING AND THE QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED.
24. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN.
25. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHIP MADE COLD BENDS.

STRUCTURAL STEEL:

- 1. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS WHICH INCLUDE ERECTION DRAWINGS, MATERIALS CONNECTIONS, FABRICATION, AND ALL DETAILS FOR THE FOLLOWING ITEMS.
3. STRUCTURAL STEEL:
1. ASTM A36 FOR ALL STEEL.
4. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C.
5. STEEL PIPE: ASTM A513, TYPE E OR S, GRADE 80.
6. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND IN ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.1 SPECIFICATION.
7. HEADED ANCHOR RODS: ASTM F1554, GRADE 55, WELDABLE ANCHOR AND HEAVY HEX NUT, UNLESS INDICATED OTHERWISE.
8. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OR REPAIRS OF ANCHOR BOLTS OR RODS, AND COLUMN BASE PLATES.
9. BOLTED CONNECTIONS: BEARING TYPE A325-N IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
10. USE SNEG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.
11. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.
12. ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER.

MASONRY:

- 1. MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE MASONRY SOCIETY AND THE AMERICAN CONCRETE INSTITUTE.
2. ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW THE BELOW LISTED ITEMS.
1. MORTAR MATERIALS CERTIFICATES AND MIX DESIGN
2. GROUT MATERIALS CERTIFICATES AND MIX DESIGN
4. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH OF fm = 2500 PSI, AS DETERMINED IN ACCORDANCE WITH ASTM C1063.
5. PROVIDE HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90.
6. PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270, UNLESS NOTED OTHERWISE.
7. COURSE MASONRY GROUT SHALL CONFORM TO ASTM C478 WITH A MAXIMUM AGGREGATE SIZE OF 3/8". MINIMUM COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. STOP GROUT 2" SHORT OF TOP BED JOINT TO CREATE A SHEAR KEY WITH THE NEXT LIFT.
8. MASONRY GROUT SHALL BE MECHANICALLY CONSOLIDATED AT THE TIME OF PLACEMENT AND THEN RECONSOLIDATED WITHIN 45 MINUTES.
9. DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
10. ALL REINFORCING IN MASONRY WALLS SHALL BE FULLY ENCLOSED WITH PROPERLY CONSOLIDATED GROUT.
11. WHEN LAYING BLOCK MORE THAN FIVE FEET FOUR INCHES VERTICAL PRIOR TO GROUTING (HIGH LIFT), PROVIDE A 4"x4" CLEAR HOUT OPENING AT THE BOTTOM COOF OR FLOOR OPENING AT EACH REINFORCED CELL. CELLS SHALL BE THOROUGHLY CLEANED PRIOR TO GROUTING. SEAL OPENING DURING GROUTING.
12. PROVIDE 9 GA. GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82 OR ASTM A951 AT 16" OC VERTICALLY FOR FULL WALL HEIGHT. LAP 6" MINIMUM AND PROVIDE PREFAB CORNERS AND TEES. SEE ARCHITECTURAL FOR BRICK TIES FABRICATED INTEGRAL WITH JOINT REINFORCING, IF REQUIRED.
13. ADEQUATE TEMPORARY BRACING OF CMU WALLS MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE TO PROVIDE ADEQUATE LATERAL STABILITY TO THE WALL.

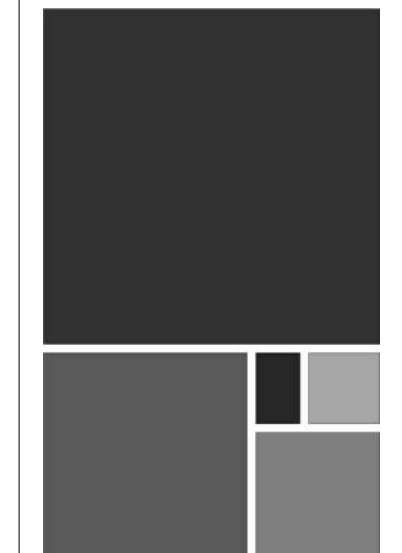
WOOD FRAMING:

- 1. WOOD CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE AND THE AMERICAN WOOD COUNCIL REQUIREMENTS.
2. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.
3. WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN PINE.
4. TRUSSES SPANNING GREATER THAN TWENTY-FOUR FEET: VISUALLY GRADED DIMENSIONED #1 SOUTHERN PINE.
5. SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE SHALL BE AS SPECIFIED ABOVE.
6. ALL PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) OR MICRONIZED COPPER AZOLE (MCA) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD.
7. PRESERVATIVE RETENTION:
1. 0.60 LBS/FT3 PERMANENT WOOD FOUNDATIONS
2. 0.40 LBS/FT3 GROUND CONTACT
3. 0.25 LBS/FT3 ABOVE GROUND
8. ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE PRESERVATIVE MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
9. DIMENSIONED LUMBER FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT ENDS, POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKS, BRIDGING, OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.
10. ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.
11. FLOOR SHEATHING: 3/4" TONGUE & GROOVE PLYWOOD OR OSB, APA SINGLE FLOOR RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 48/24. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS WITH JOINTS STAGGERED.
12. FLOOR SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 8 INCHES AT PANEL ENDS AND INTERMEDIATE SUPPORTS.
13. ROOF SHEATHING (TYPICAL): 15/32" PLYWOOD OR OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PERPENDICULAR TO TONGUE AND GROOVE WITH JOINTS STAGGERED.
14. ROOF SHEATHING NAILING, UNLESS NOTED: 16D HOT-DIPPED GALVANIZED COMMON NAILS AT 6 INCHES AT DIAPHRAGM BOUNDARIES, 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.
15. TONGUE AND GROOVE ROOF DECKING: PRESSURE TREATED 2x6 T&G SOUTHERN PINE NO. 1 GRADE SOLID TIMBER DECKING WITH TONGUE INSTALLED UP-SLOPE.
16. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHIP MADE COLD BENDS.
17. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC.
18. SEE CONCRETE COVER SCHEDULE FOR REQUIRED STEEL COVERAGE.
19. REINFORCING BAR PLACING ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
20. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED OTHERWISE.
21. IF ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE, PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES THROUGH ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
22. ADDITIONAL REINFORCING AND THE QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED.
23. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN.
24. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHIP MADE COLD BENDS.
25. USE WET-USE (WATERPROOF) ADHESIVES FOR ALL GLUED LAMINATED TIMBER.
22. ALL PRESSURE TREATED GLUED LAMINATED TIMBER FRAMING SHALL BE PRESSURE TREATED WITH PENTACHLOROPHENOL IN MINERAL SPIRITS IN ACCORDANCE WITH AITC 109 "STANDARD FOR PRESERVATIVE TREATMENT OF STRUCTURAL GLUED-LAMINATED TIMBER." ALL TREATED GLUED LAMINATED TIMBER SHALL BE SEALED WITH 2 COATS OF URETHANE FURNISHED BY THE GLUED LAMINATED SUPPLIER AND APPLIED BY THE CONTRACTOR.
24. GLUE LAMINATED TIMBER STRESS GRADES SHALL PROVIDE THE FOLLOWING MINIMUM PROPERTIES (PSI) FOR BENDING ABOUT THE X-X AXIS:
LOAD DRY USE WET USE
BENDING (Fb) 2400 1900
TENSION (Ft) 1100 880
COMP PARALLEL TO GRAIN (Fc PAR) 1350 925
COMP PERPEND TO GRAIN (Fc PER) 590 325
SHEAR PARALLEL TO GRAIN (Fv) 200 175
MODULUS OF ELASTICITY (E) 1,700,000 1,400,000

SHOP FABRICATED WOOD TRUSSES:

- 1. DESIGN, FABRICATE, AND ERECT SHOP FABRICATED WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE.
2. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S RECORD ERECTION PLANS, TRUSS CALCULATIONS, AND CONNECTION CALCULATIONS, AS DESIGNED BY THE CONTRACTOR. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
3. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.
4. THE WOOD TRUSS SYSTEM ENGINEER SHALL DESIGN THE COMPLETE TRUSS SYSTEM. THE TRUSS SYSTEM IS AN ASSEMBLAGE OF TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATION CRITERIA, THAT, IN COMBINATION, FUNCTION TO SUPPORT THE LOADS APPLICABLE TO THE STRUCTURE.
5. TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS (PSF):
1. ROOF:
1. TOP CHORD DEAD LOAD 10
2. BOTTOM CHORD DEAD LOAD 10
3. BOTTOM CHORD LIVE LOAD 0
4. BOTTOM CHORD LIVE LOAD 0
6. SEE "DESIGN LOADS" SECTION OF THE GENERAL NOTES FOR LIVE LOADS APPLIED TO THE TOP CHORD.
7. DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT LOADING IN ACCORDANCE WITH THE BUILDING CODE.
8. IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE CONTRACTOR.
9. ALL MANUFACTURED TRUSS HOLD-DOWNS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.
10. ALL TEMPORARY BRACING AND PERMANENT BRACING AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS.
11. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE GROUND OR FLOOR DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

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Table with 4 columns: No., Date, Description, Remarks. Row 1: 18/03/2022, Rev. 1, C-0 Comments.

20-1101-0049
PROJECT STATUS
CONFORMANCE SET
DATE
MARCH 24, 2023
SHEET NAME
GENERAL NOTES
SHEET NO.
SG001





STRUCTURAL TYPICAL ABBREVIATIONS			
AB	ANCHOR BOLT	VERT.	VERTICAL
AFF	ABOVE FINISH FLOOR	JST.	JOIST
BOT.	BOTTOM	JT.	JOINT
B.O. BM	BOTTOM OF BEAM	JG.	JOIST GIRDER
B.O. COL	BOTTOM OF COLUMN	K	KIPS (1000 LBS)
B.O. CONC	BOTTOM OF CONCRETE	KLF	KIPS PER LINEAR FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. JST	BOTTOM OF JOIST	KSI	KIPS PER SQUARE FOOT
B.O. SLAB	BOTTOM OF SLAB	LB/S	POUND/POUNDS
B.O. STL	BOTTOM OF STEEL	LLH	LONG LEG HORIZONTAL
B.O. WALL	BOTTOM OF WALL	LLV	LONG LEG VERTICAL
BFF	BELOW FINISH FLOOR	LIN.	LINEAR
BRG.	BEARING	LIN. FT.	LINEAR FOOT
BLK	BLOCK	MISC.	MISCELLANEOUS
BM.	BEAM	NS	NEAR SIDE
BP	BASE PLATE	NTS	NOT TO SCALE
BRDG.	BRIDGING	NOM.	NOMINAL
BRG.	BEARING	O.C.	ON CENTER
C/C	CENTER TO CENTER	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONST. JT.	CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENERS
CONT.	CONTINUOUS	PLF	POUNDS PER LINERA FOOT
CJ	CONTROL JOINT	PCF	POUNDS PER CUBIC FOOT
CONC.	CONCRETE	PCI	POUNDS PER CUBIC INCH
COL.	COLUMN	WP	WORK POINT
CTR.	CENTER	REV.	REVISION
DBL.	DOUBLE	REINF.	REINFORCING
DBA	DEFORMED ANCHOR BAR	REQ'D.	REQUIRED
DBE	DECK BEARING ELEVATIONS	SIM.	SIMILAR
EJ	EXPANSION JOINT	SCHED.	SCHEDULE
ELEV.	ELEVATION	SLH	SHORT LEG HORIZONTAL
EMBED.	EMBEDMENT	SLV.	SHORT LEG VERTICAL
EXIST. GR.	EXISTING GRADE	SJ	SAW JOINT
EXIST.	EXISTING	SPA.	SPACING
EOS	EDGE OF SLAB	SF	SQUARE FOOT
FF	FINISH FLOOR	STD.	STANDARD
F.O. BM.	FACE OF BEAM	STIFF.	STIFFENER
F.O. COL.	FACE OF COLUMN	STRUCT.	STRUCTURAL
F.O. CONC.	FACE OF CONCRETE	TBR	TO BE REMOVED
F.O. FTG.	FACE OF FOOTING	T&B	TOP AND BOTTOM
F.O. JST.	FACE OF JOIST	T.O. BM	TOP OF BEAM
F.O. SLAB	FACE OF SLAB	T.O. COL	TOP OF COLUMN
F.O. STL.	FACE OF STEEL	T.O. CONC	TOP OF CONCRETE
F.O. WALL	FACE OF WALL	T.O. FTG	TOP OF FOOTING
FLR.	FLOOR	T.O. JST	TOP OF JOIST
FDN.	FOUNDATION	T.O. SLAB	TOP OF SLAB
FTG.	FOOTING	T.O. STL	TOP OF STEEL
HS	HEADED STUD	T.O. WALL	TOP OF WALL
HK.	HOOK	THK.	THICK
HORIZ.	HORIZONTAL	THRU	THROUGH
TYP	TYPICAL	W/O	WITHOUT
UNO	UNLESS NOTED OTHERWISE	WWR	WELDED WIRE REINFORCEMENT

CAST-IN-PLACE CONCRETE MIX SCHEDULE										
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE	MAX CONCRETE WEIGHT (PCF)	FIBER	
SLAB ON GRADE / PEDESTALS	F0, S0, P0, CO	4,000	NORMAL WT.	0.45 (40% ASH)	3" TO 5"	---	3/4"	---	NO	
SHALLOW FOUNDATIONS	F0, S0, P0, CO	3,000	NORMAL WT.	0.50 (40% ASH)	4" TO 6"	---	3/4"	---	NO	

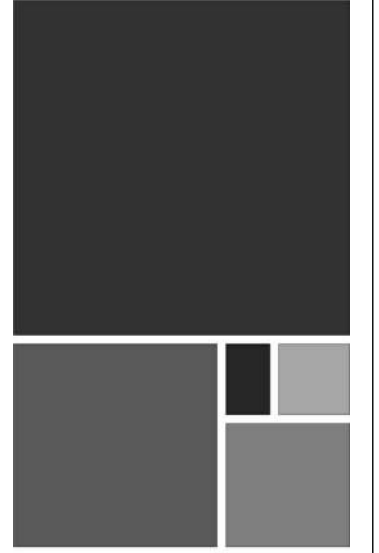
1. EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, PERMEABILITY, AND CORROSION ARE PER ACI 318, SECTION 4.2.  
 2. WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, VALUES SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER.  
 3. WHERE AIR ENTRAINMENT IS NOT REQUIRED PER THE ABOVE TABLE, THE CONTRACTOR, INSTALLER, OR SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE PLACEMENT AND FINISHING CHARACTERISTICS. AIR ENTRAINMENT IS NOT PERMITTED IN NORMAL WEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH, AND ENTRAPPED AIR SHALL NOT EXCEED 3%. AIR ENTRAINMENT IN LIGHT WEIGHT CONCRETE SLABS IS REQUIRED TO MEET FIRE RATING REQUIREMENTS. SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS SUCH AS BLISTERING OR DELAMINATION.  
 4. CEMENT AND AGGREGATES SHALL BE FROM A SINGLE SOURCE.

CIP CONCRETE CLEAR COVER SCHEDULE	
LOCATION	COVER mm (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	76 (3")
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	51 (2")
#5, W31, AND SMALLER BARS	38 (1 1/2")
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	38 (1 1/2")
#11 AND SMALLER BARS	19 (3/4")
BEAMS AND COLUMNS	38 (1 1/2")
FOOTINGS, GRADE BEAMS, AND PILE CAPS	51 (2") TOP 76 (3") BOTT. & SIDES
DRILLED PIERS AND BELLED PIERS	76 (3") CLEAR OF TIES
PEDESTALS AND COLUMNS	38 (1 1/2") CLEAR OF TIES
BASEMENT WALLS	51 (2") EXT. & 19 (3/4") INT.
RETAINING WALLS	51 (2") BOTH FACES
SUMP AND PIT WALLS	51 (2") BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	19 (3/4") TOP & BOTT.
POST TENSIONED SLABS EXPOSED TO WEATHER	25 (1") TOP & BOTT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	38 (1 1/2") TOP & 19 (3/4") BOTT.
#6 AND GREATER BARS	51 (2") TOP & 19 (3/4") BOTT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	51 (2") FROM TOP
SLAB ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	19 (3/4") TOP 38 (1 1/2") BOTT.
BEAMS	38 (1 1/2") CLEAR OF STIRRUPS
JOISTS	38 (1 1/2") ALL SIDES
WIDE MODULE JOISTS	19 (3/4")

CONCRETE TENSION SPLICE LAP LENGTHS												
BAR SIZE	f <sub>c</sub> = 3000 PSI				f <sub>c</sub> = 4000 PSI				f <sub>c</sub> = 5000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B	A	B	A	B
#3	22	28	17	22	19	25	15	19	17	22	13	17
#4	29	38	22	29	25	33	19	25	23	29	17	23
#5	36	47	28	36	31	41	24	31	28	36	22	28
#6	54	56	33	43	37	49	29	37	34	44	26	34
#7	63	81	48	63	54	71	42	54	49	63	38	49
#8	72	93	55	72	62	81	48	62	56	72	43	56
#9	81	105	62	81	70	91	54	70	63	81	48	63
#10	91	118	70	91	79	102	61	79	71	92	54	71
#11	101	131	78	101	87	114	67	87	78	102	60	78

1. ALL LENGTHS ARE IN INCHES.  
 2. BAR COVER AND TRANSVERSE REINFORCEMENT SHALL MEET CODE MINIMUM.  
 3. LAP SPlicing OF #14 & #18 BARS IS NOT ALLOWED.  
 4. LAP LENGTHS ARE FOR NORMAL WEIGHT CONCRETE WITH UNCOATED, 60 KSI BARS.  
 5. WHEN LAPPING BARS OF DIFFERENT SIZES USE THE SPLICE LAP LENGTH OF THE SMALLER BAR, OR THE DEVELOPMENT LENGTH OF THE LARGER BAR, WHICHEVER IS GREATER. THE "A" VALUE FROM THE TABLE IS EQUAL TO THE BAR DEVELOPMENT LENGTH.  
 6. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

SCHEDULE OF SPECIAL INSPECTIONS		
SPECIAL CASES (IBC 1705.1.1)		
ITEM	FREQUENCY	INSTRUCTIONS / COMMENTS
INSPECT WORK THAT IS DEEMED "UNUSUAL" BY THE BUILDING OFFICIAL.	CONTINUOUS	AS DEFINED BY THE BUILDING OFFICIAL OR REGISTERED DESIGN PROFESSIONAL.
SOILS CONSTRUCTION (IBC 1705.6)		
ITEM	FREQUENCY	EXTENT / COMMENTS
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	AS RECOMMENDED IN APPROVED SOILS REPORT AND CONTAINED IN THE CONSTRUCTION DOCUMENTS.
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
VERIFY CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF COMPACTED FILL.	PERIODIC	
CONCRETE CONSTRUCTION (IBC 1705.3)		
ITEM	FREQUENCY	EXTENT / COMMENTS
SPREAD FOOTING ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
CONTINUOUS FOOTINGS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
CONCRETE FOUNDATION WALLS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	---	
INSPECT ANCHORS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	PERIODIC	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	PERIODIC	INSPECT ACCORDING TO RESEARCH REPORT FOR THE ANCHOR ISSUED. FOR EACH POUR.
VERIFY THAT CORRECT CONCRETE DESIGN MIX IS BEING USED.	PERIODIC	
AT THE TIME CONCRETE IS SAMPLED FOR STRENGTH TESTS, TEST CONCRETE FOR SLUMP, AIR CONTENT, AND TEMPERATURE.	CONTINUOUS	DURING PLACEMENT OPERATIONS. REFERENCE CONCRETE SPECIFICATIONS FOR SPECIFIC TESTS AND FREQUENCIES.
INSPECT CONCRETE/SHOTCRETE PLACEMENT AND PLACEMENT METHODS EXCEPT AS NOTED ABOVE.	CONTINUOUS	
INSPECT ALL CONCRETE CURING OPERATIONS.	PERIODIC	MONITOR DURING HOT, COLD AND WINDY CONDITIONS. REFERENCE CONCRETE SPECIFICATIONS.
MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155.	PERIODIC	FOR EACH POUR. DO NOT SUBMIT REPORTS TO BUILDING OFFICIAL.
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2.1)		
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT ANCHOR RODS AND OTHER EMBEDMENTS. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OF DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	APPLIES TO EMBEDDED POST/COLUMN CONNECTIONS.
WOOD CONSTRUCTION (IBC 1705.5)		
ITEM	FREQUENCY	EXTENT / COMMENTS
INSPECT SITE-BUILT ASSEMBLIES INCLUDING SITE BUILT TRUSSES. INSPECT ERECTED TRUSSES INCLUDING BRIDGING AND ATTACHMENTS.	PERIODIC	
NOTES		
NOTE: THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE INSPECTION AGENT(S) ARE CONTINUOUS: THE INSPECTOR IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS		



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GATHERING HUB PACKAGE  
GULF SHORES, ALABAMA

No.	Date	Revision
1	03/27/2023	Rev. 1 - CS Comments
2	03/28/2023	Rev. 2 - Added Table Detail

JOB: **20-1101-0049**

PROJECT STATUS: **CONFORMANCE SET**

DATE: **MARCH 24, 2023**

SHEET NAME: **ABBREVIATIONS SCHEDULES & TABLES**

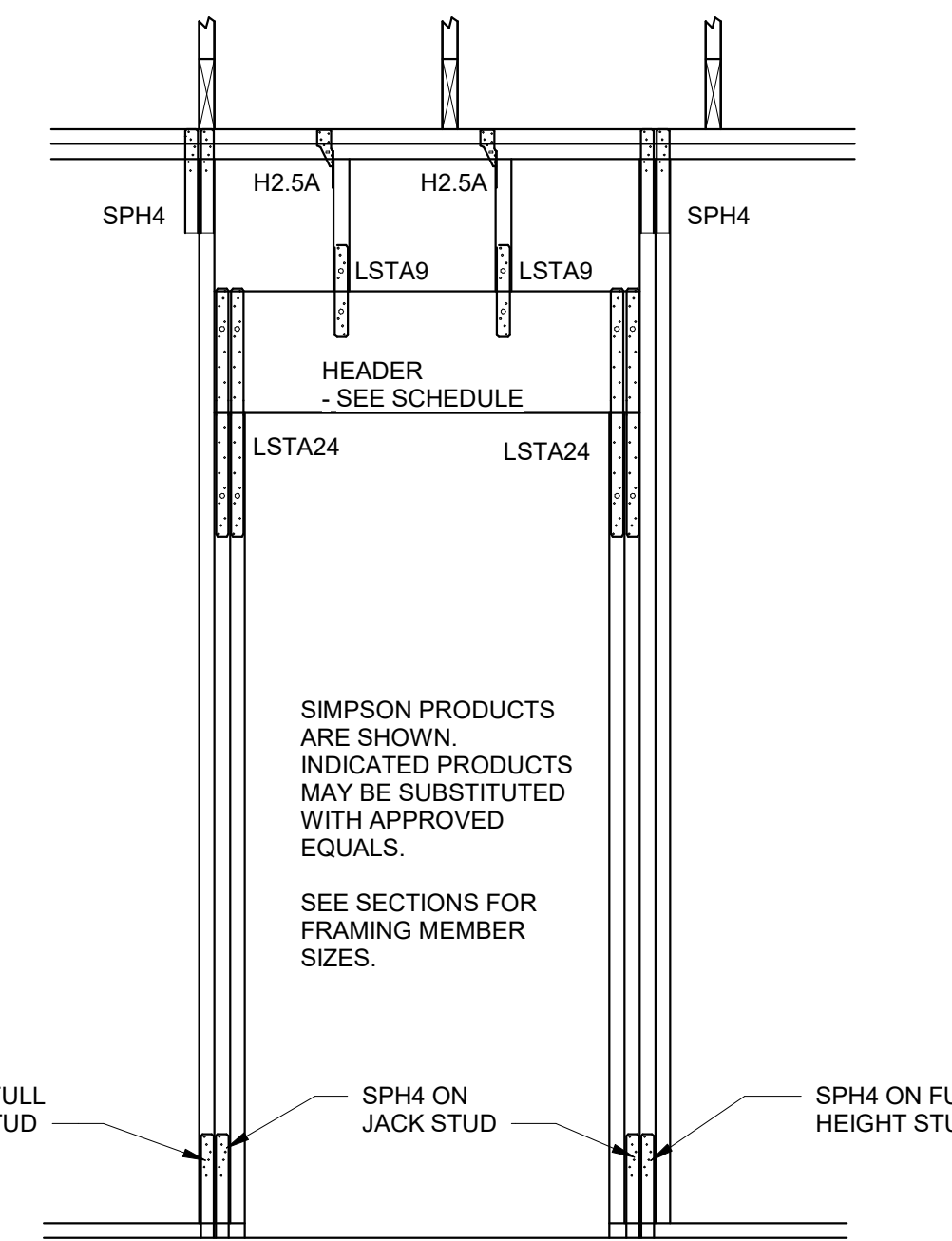
SHEET NO.: **SG002**

NAIL FASTENING SCHEDULE		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
ROOF		
BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	EACH END, TOENAIL
	2-16D COMMON (3 1/2"x0.162") AT 6" O.C. 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON (2 1/2"x0.131") AT 6" O.C.	FACE NAIL
CEILING JOISTS TO TOP PLATE	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL
CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
COLLAR TIE TO RAFTER	3-10D COMMON (3"x0.148"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 1308.7.5)	3-16D COMMON (3"x0.148"); OR 3-16D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
	3-16D COMMON (3"x0.148"); OR 4-16D BOX (3 1/2"x0.135"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
WALL		
STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	24" O.C. FACE NAIL
	10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	16D BOX (3 1/2"x0.162")	12" O.C. FACE NAIL
	3"x0.131 NAILS; OR 3" 14 GAUGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2"x0.162")	16" O.C. EACH EDGE, FACE NAIL
	10D BOX (3"x0.128")	12" O.C. EACH EDGE, FACE NAIL
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2"x0.131"); OR 4-10D BOX (3"x0.128")	TOENAIL
TOP PLATE TO TOP PLATE	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	10D BOX (3"x0.128"); OR 4-3"x0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (3 1/2"x0.162"); OR 12-10D BOX (3"x0.128"); OR 12-3"x0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
	16D BOX (3 1/2"x0.135"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2"x0.162"); OR 3-16D BOX (3"x0.135"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
TOP PLATES, LAPS AT CORNERS, AND INTERSECTIONS	2-16D COMMON (3 1/2"x0.162"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128"); OR 2-3"x0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
1"x6" SHEATHING TO EACH BEARING	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128")	FACE NAIL
1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128")	FACE NAIL

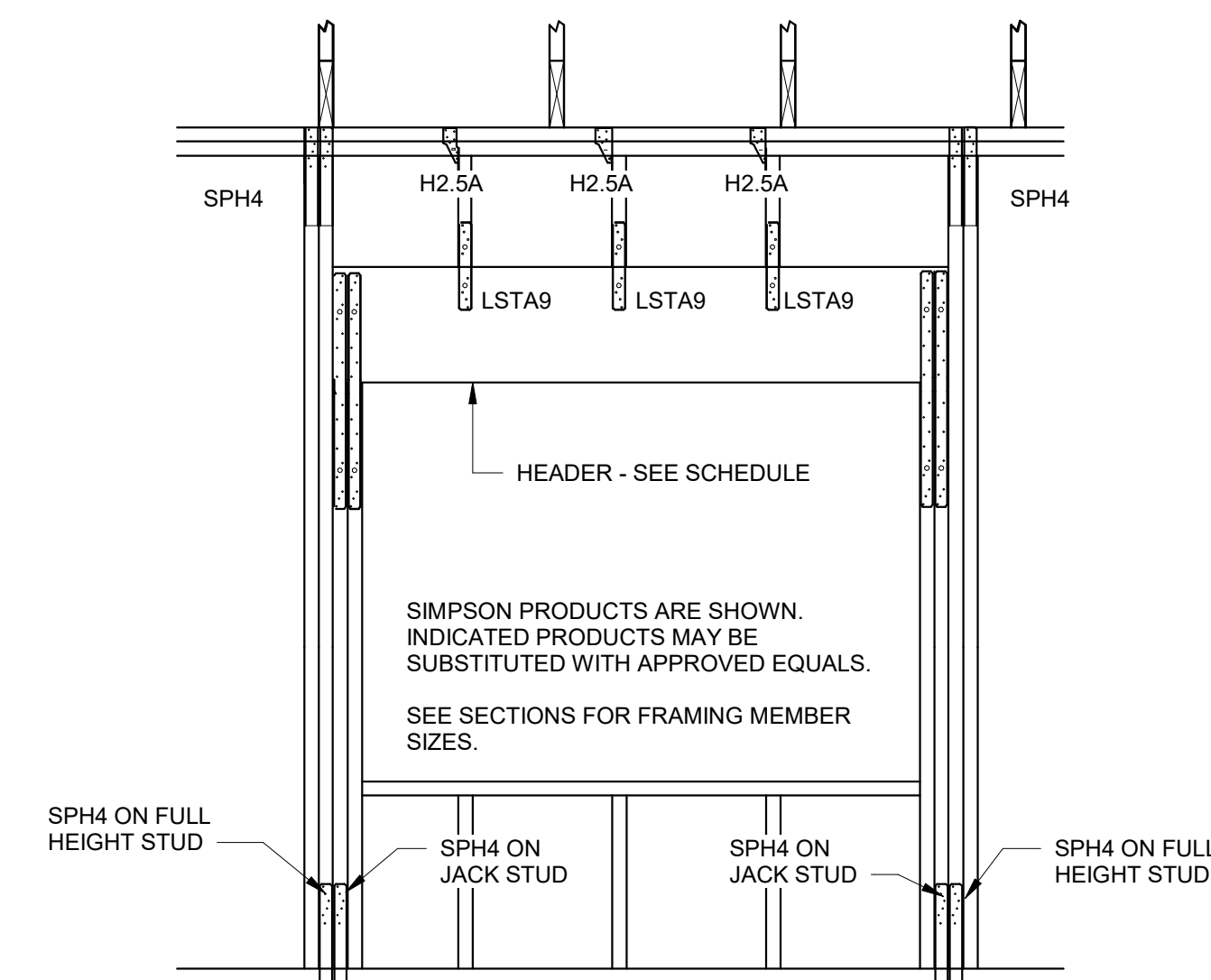
FLOOR		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2"x0.131"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131 NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8D COMMON (2 1/2"x0.131"); OR 10D BOX (3"x0.128"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" O.C., TOENAIL
1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	2- 16D COMMON (3 1/2"x0.162")	FACE NAIL
2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF)	2- 16D COMMON (3 1/2"x0.162")	EACH BEARING, FACE NAIL
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D BOX (4"x0.192")	32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10D BOX (3"x0.128"); OR 3"x0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND 2-20D COMMON (4"x0.192"); OR 3-10D BOX (3"x0.128"); OR 3-3"x0.131" NAILS; OR 3-3" 14 GAUGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 1/2"x0.162"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (3 1/2"x0.162"); OR 4-10D BOX (3"x0.128"); OR 4-3"x0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8D COMMON (2 1/2"x0.131"); OR 2-10D BOX (3"x0.128"); OR 2-3"x0.131 NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL

FOR USE WHEN A SPECIFIC CONNECTION IS NOT PROVIDED IN DETAILS AND SECTIONS.

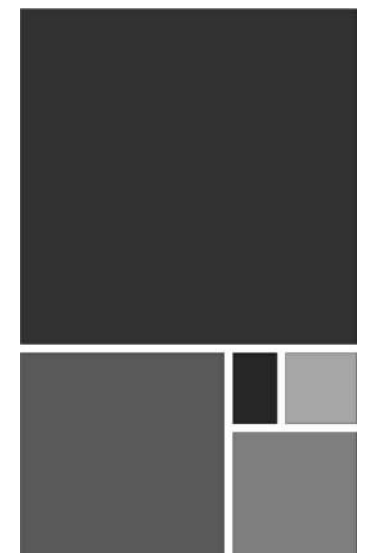
WOOD HEADER TABLE			
HEADER	MAX SPAN	DESCRIPTION	DETAIL
HD428	5'-0"	2X4 WALL WITH DOUBLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.	
HD4212	8'-0"	2X4 WALL WITH DOUBLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.	
HD628	6'-6"	2X6 WALL WITH TRIPLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (2) 16D NAILS @12" OC.	
HD6212	10'-0"	2X6 WALL WITH TRIPLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.	
HD628i	5'-6"	2X6 WALL WITH DOUBLE 2X8 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.	
HD6212i	8'-6"	2X6 WALL WITH DOUBLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.	
HD6212hs	12'-0"	2X6 WALL WITH TRIPLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ (3) 16D NAILS @6" OC T&B.	



TYPICAL DOOR OPENING HOLD-DOWN



TYPICAL WINDOW OPENING HOLD-DOWN



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No.	Date	Revision	Description
1	03/20/2023	Rev. 1	CS - COMMENTS
2	03/21/2023	Rev. 2	ADDED 16D NAILS TO DETAILS

JOB  
**20-1101-0049**

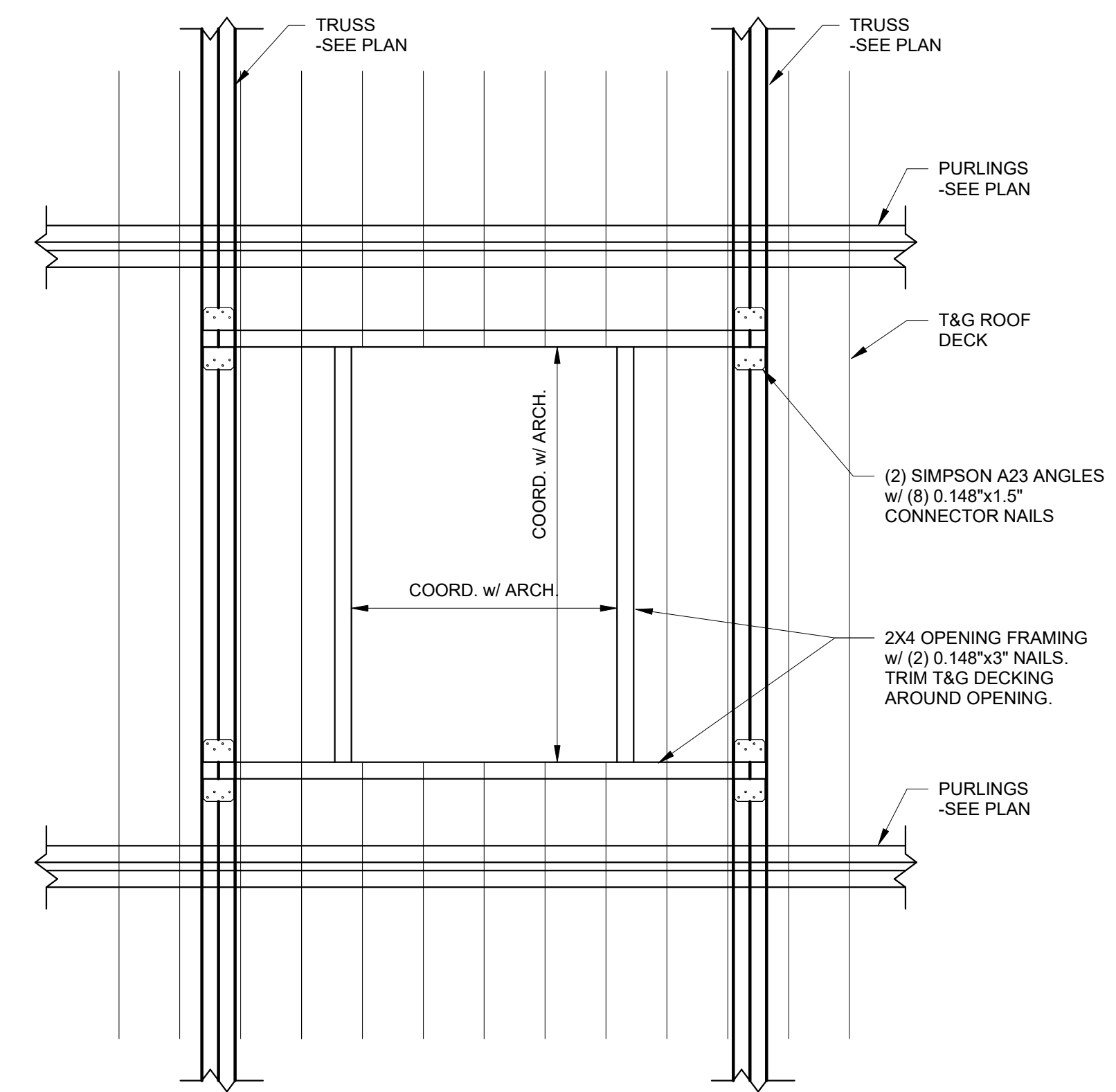
PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

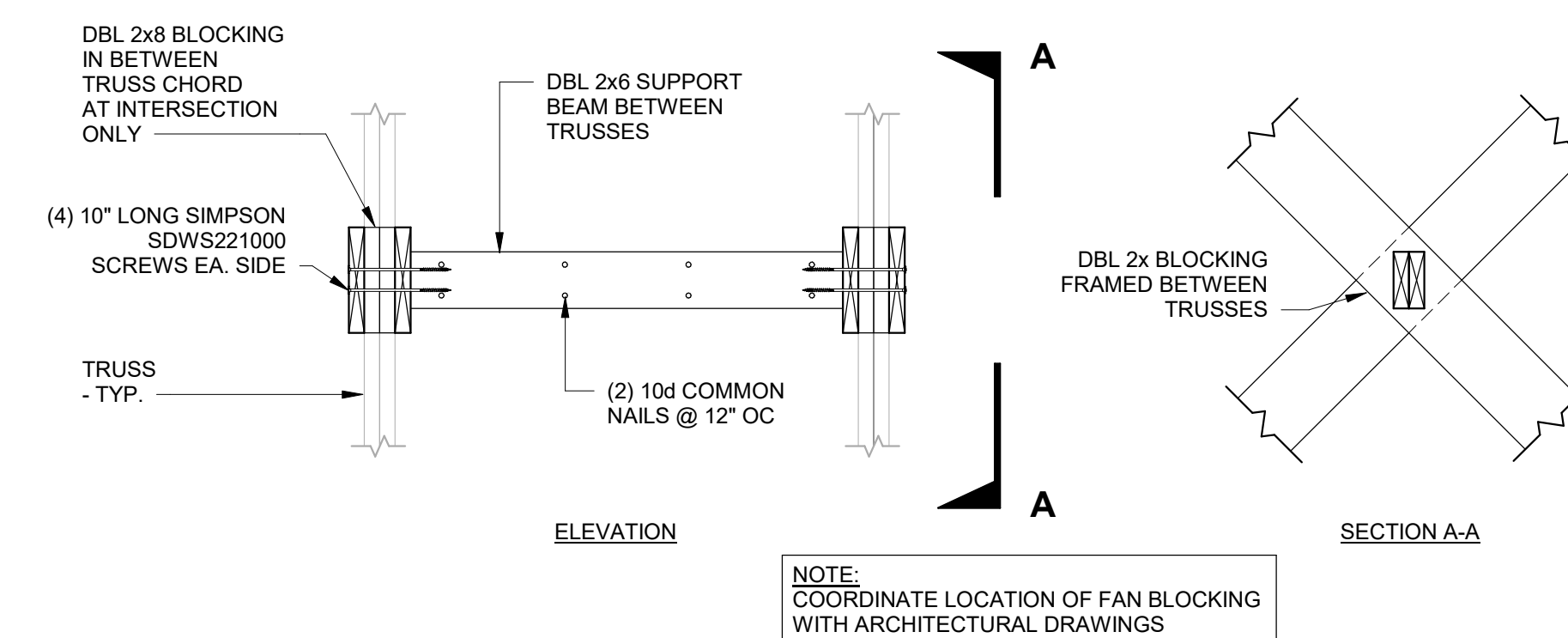
SHEET NAME  
**SCHEDULES & TABLES**

SHEET NO.  
**SG003**





**ROOF PENETRATION DETAIL**



**FAN SUPPORT BEAM DETAIL**



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Revision	
Date	
No.	

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**20-1101-0049**

PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

SHEET NAME  
**TYPICAL DETAILS**

SHEET NO.  
**SG005**



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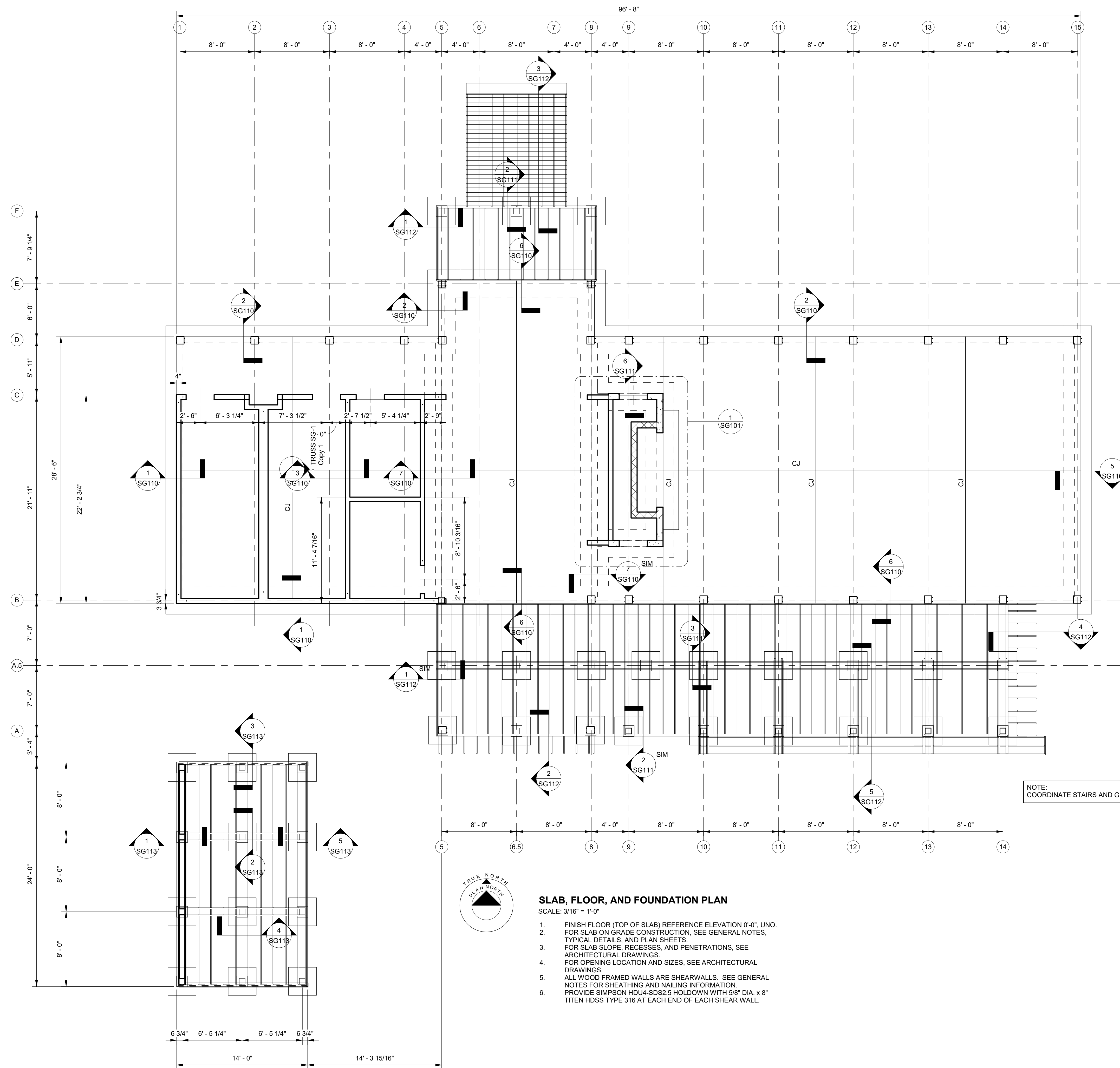
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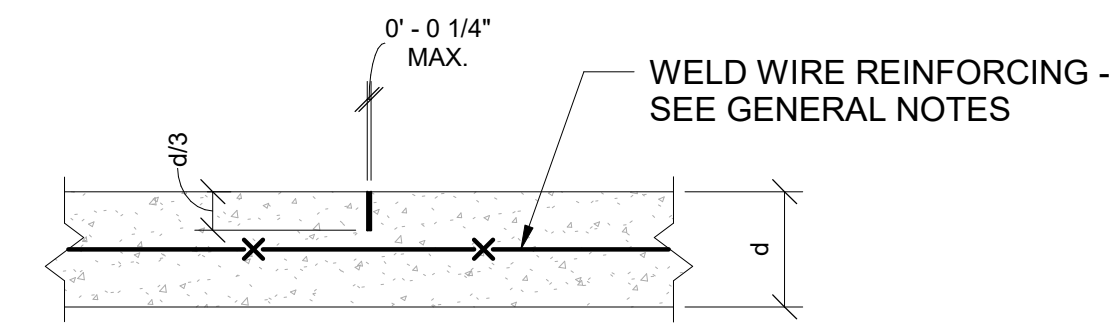
Revision	
Date	
No.	

JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	SLAB, FRAMING, AND FOUNDATION PLAN
SHEET NO.	SG100



- SLAB, FLOOR, AND FOUNDATION PLAN**  
SCALE: 3/16" = 1'-0"
1. FINISH FLOOR (TOP OF SLAB) REFERENCE ELEVATION 0'-0". UNO.
  2. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES, TYPICAL DETAILS, AND PLAN SHEETS.
  3. FOR SLAB SLOPE, RECESSES, AND PENETRATIONS, SEE ARCHITECTURAL DRAWINGS.
  4. FOR OPENING LOCATION AND SIZES, SEE ARCHITECTURAL DRAWINGS.
  5. ALL WOOD FRAMED WALLS ARE SHEARWALLS. SEE GENERAL NOTES FOR SHEATHING AND NAILING INFORMATION. PROVIDE SIMPSON HDU4-SDS2.5 HOLDDOWN WITH 5/8" DIA. x 8" TITEN HDSS TYPE 316 AT EACH END OF EACH SHEAR WALL.
  - 6.

NOTE:  
COORDINATE STAIRS AND GRADE WITH ARCHITECTURAL



NOTE:  
SAWCUTTING SHALL BE PERFORMED  
4 TO 12 HOURS AFTER PLACING CONCRETE,  
FILL JOINT WHEN WIDTH EXCEEDS 1/8"

**SLAB ON GRADE  
TYPICAL CONTROL JOINT**





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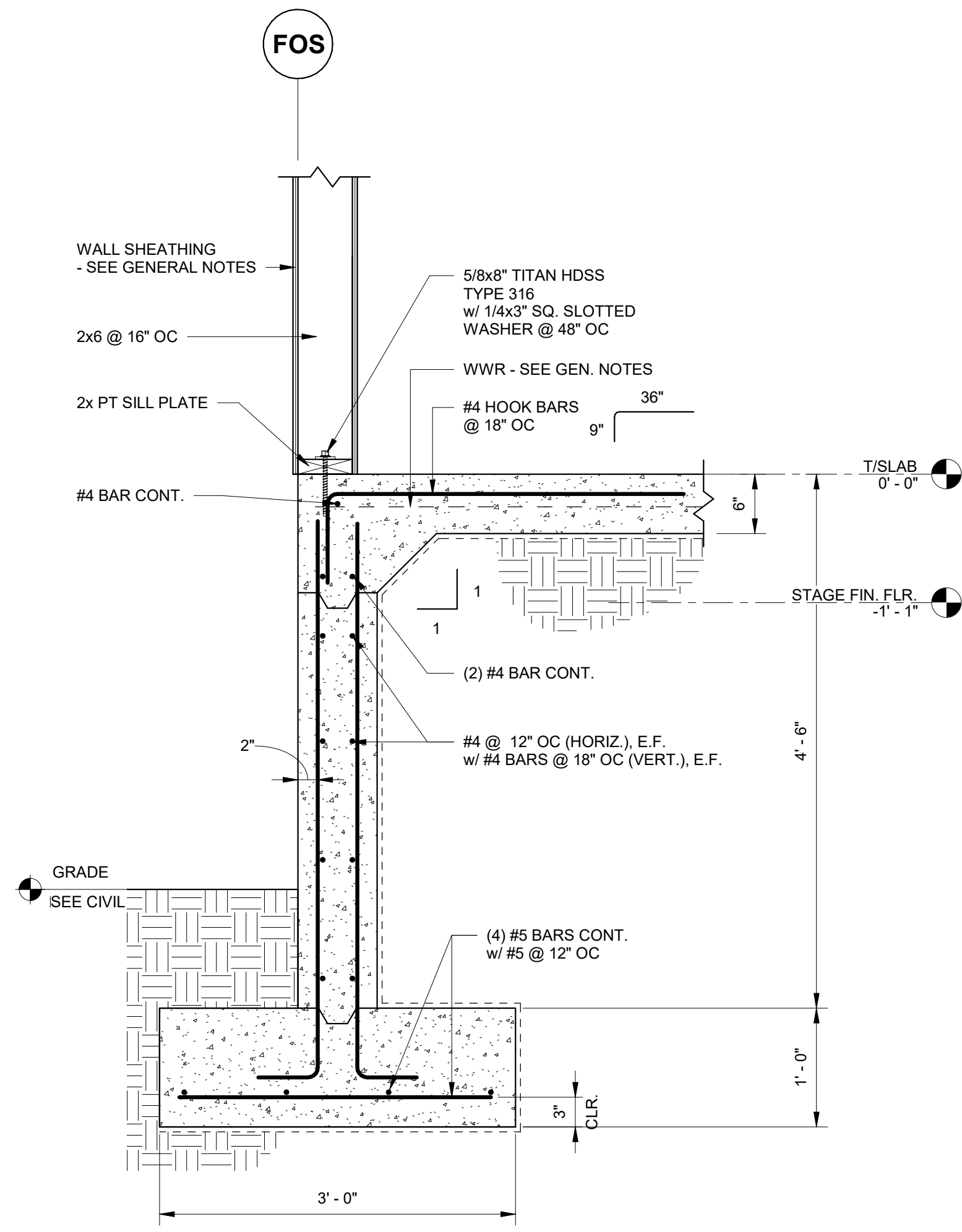
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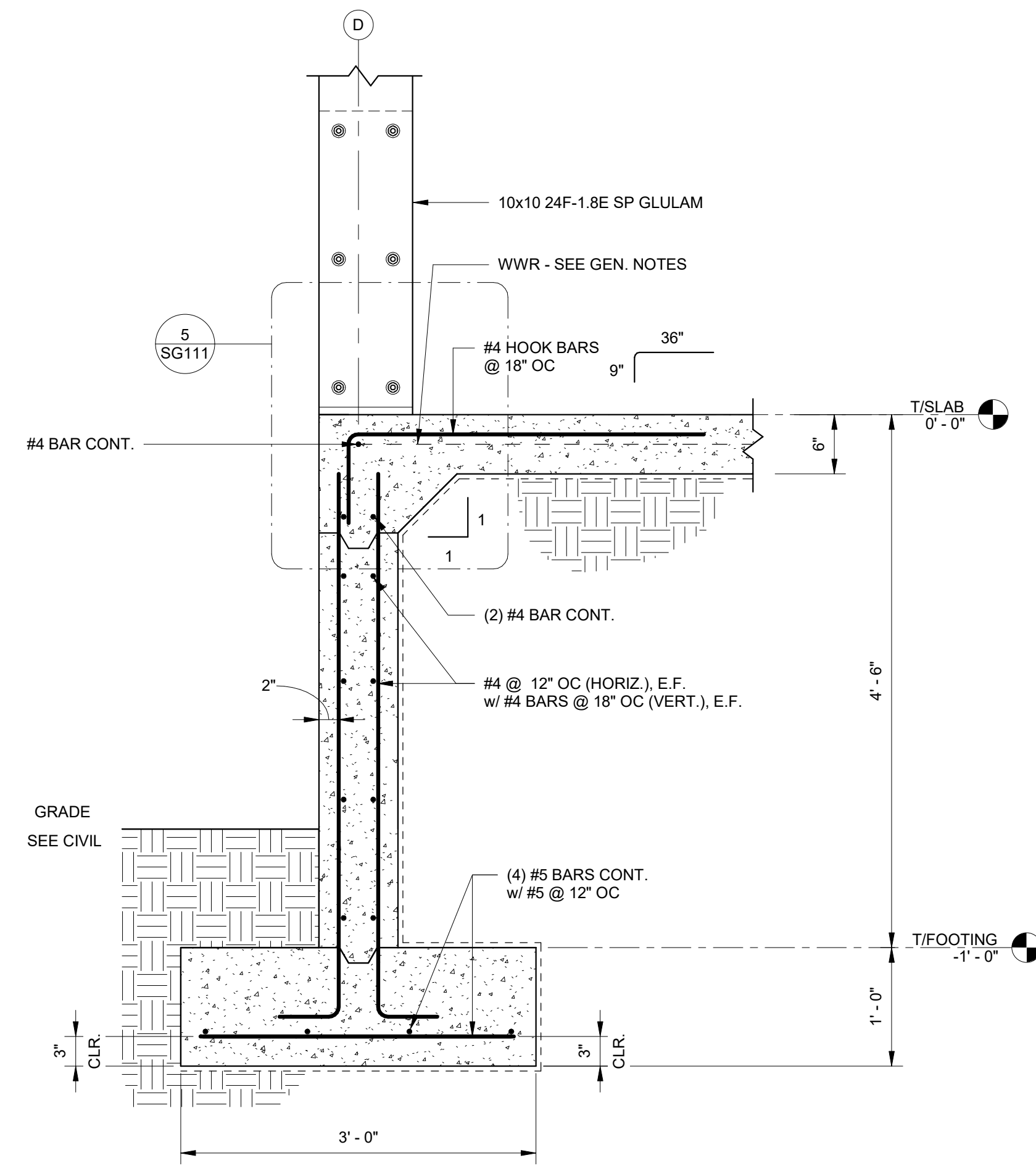
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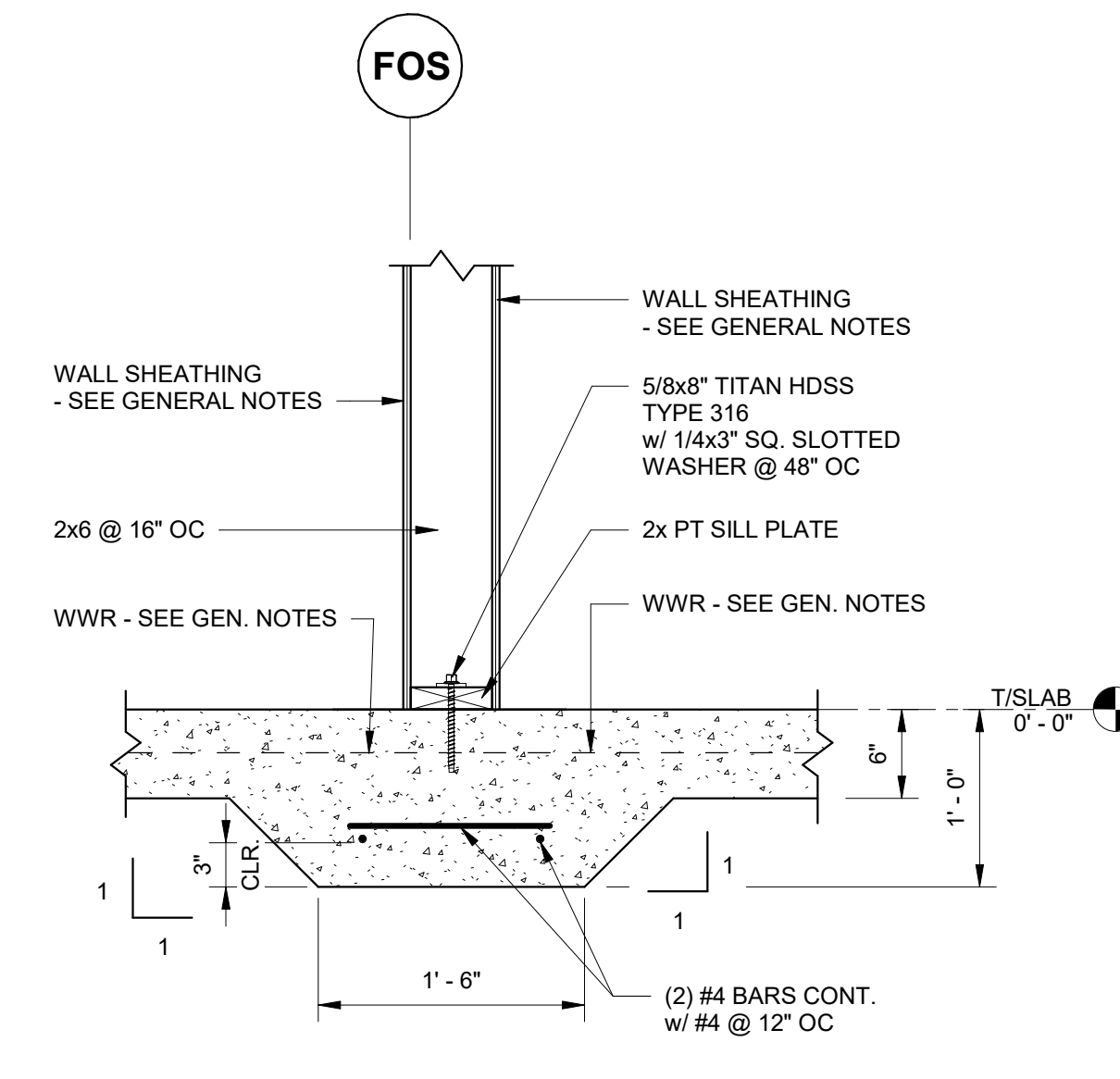
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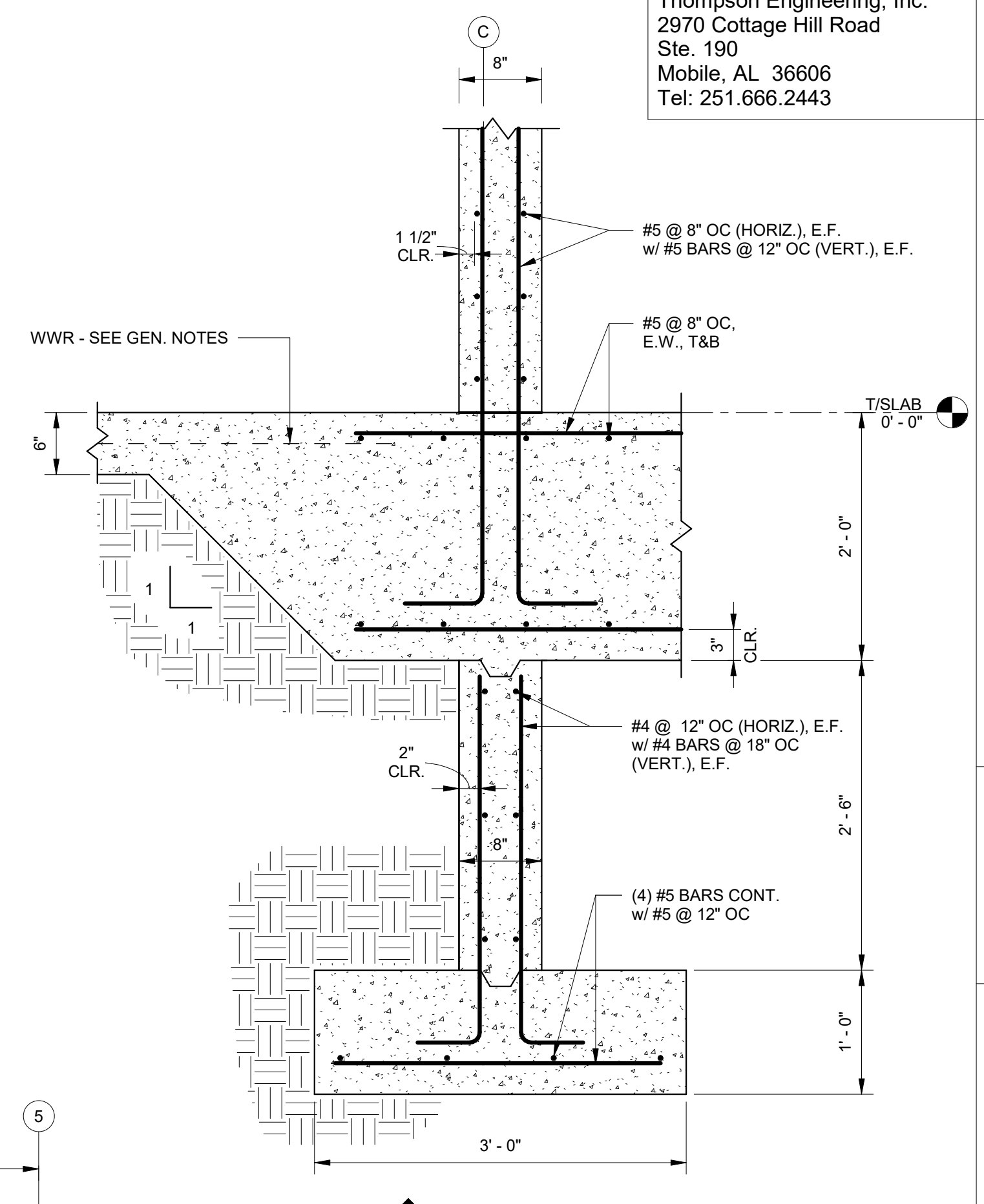
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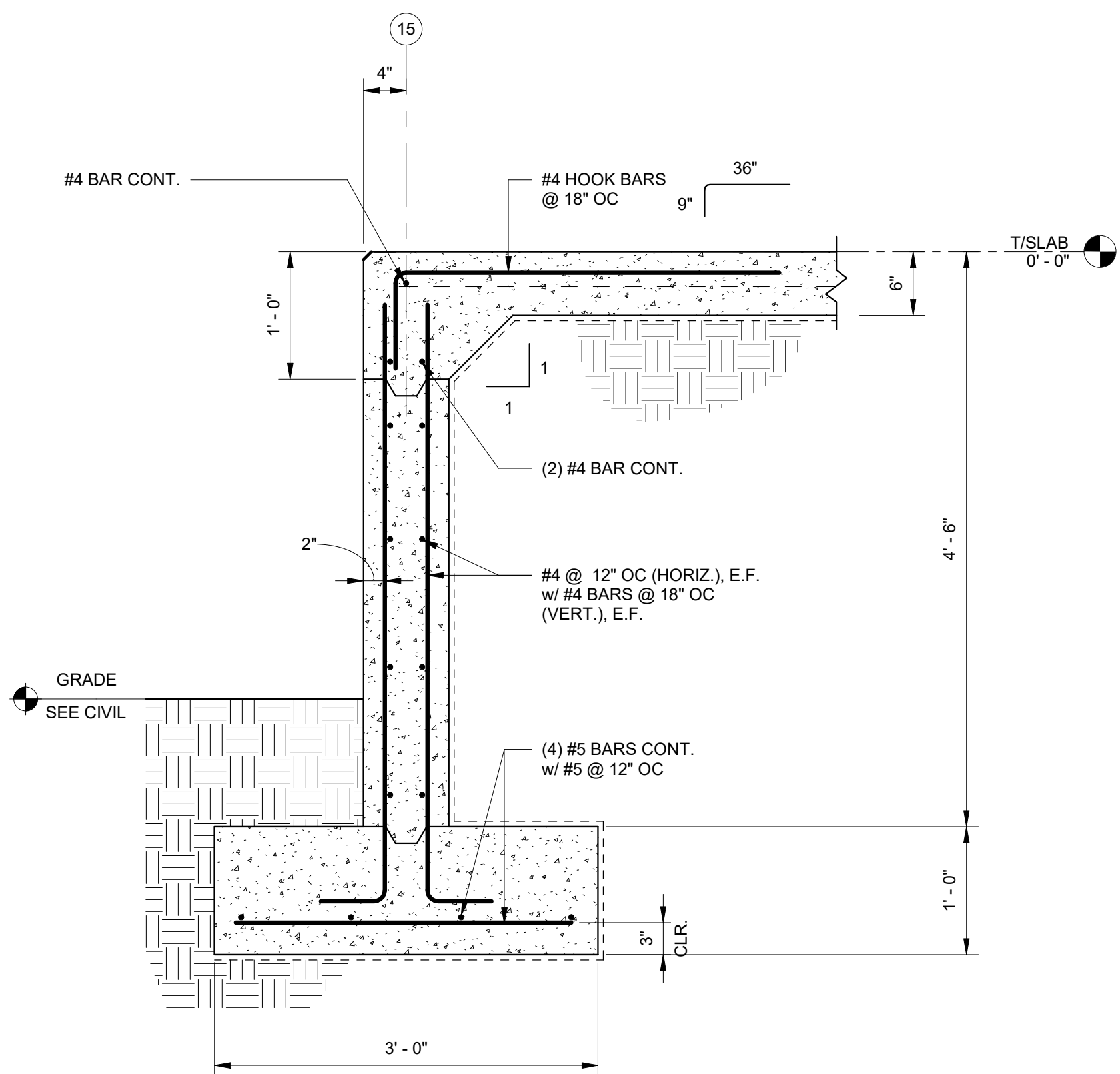
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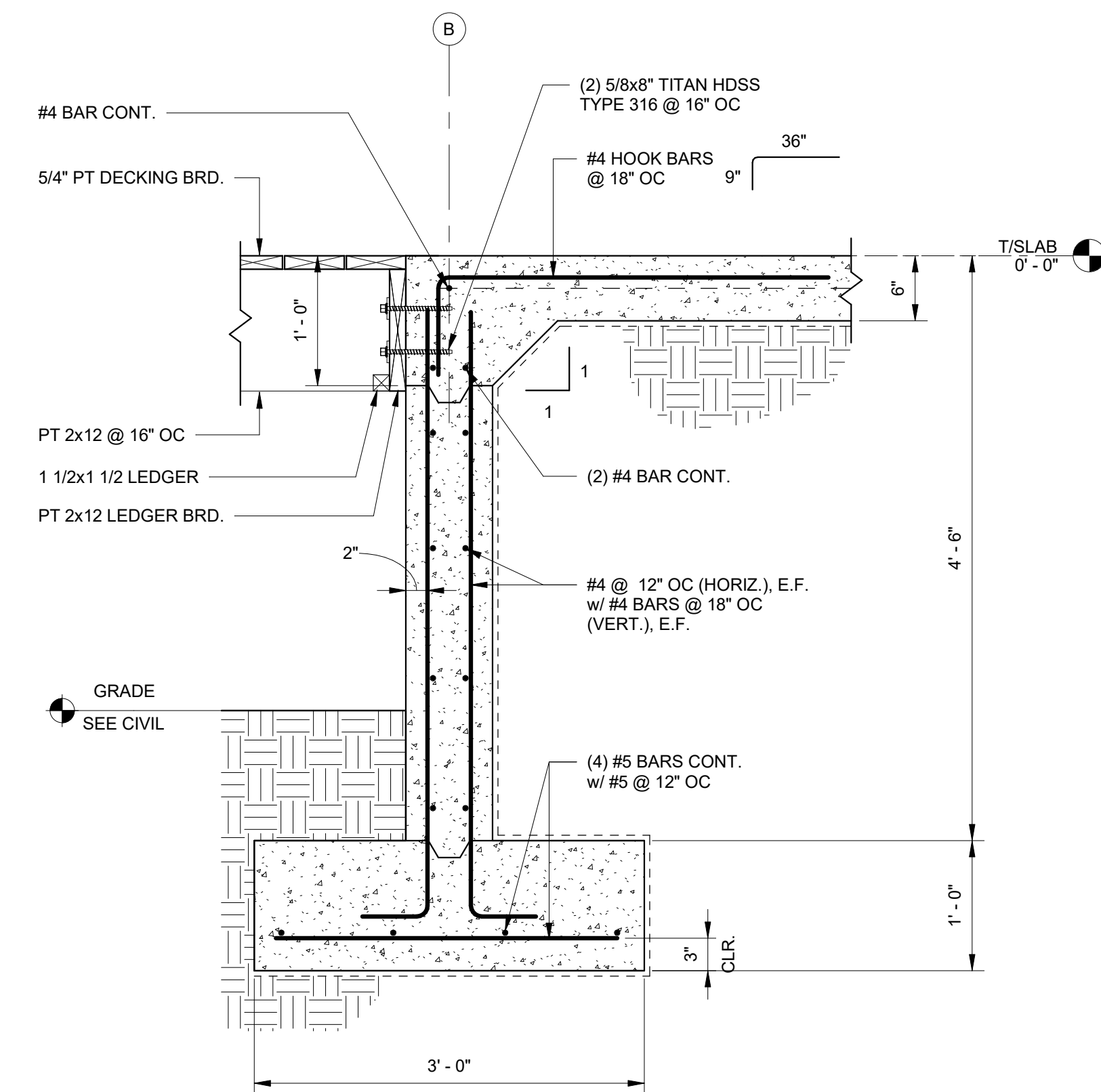
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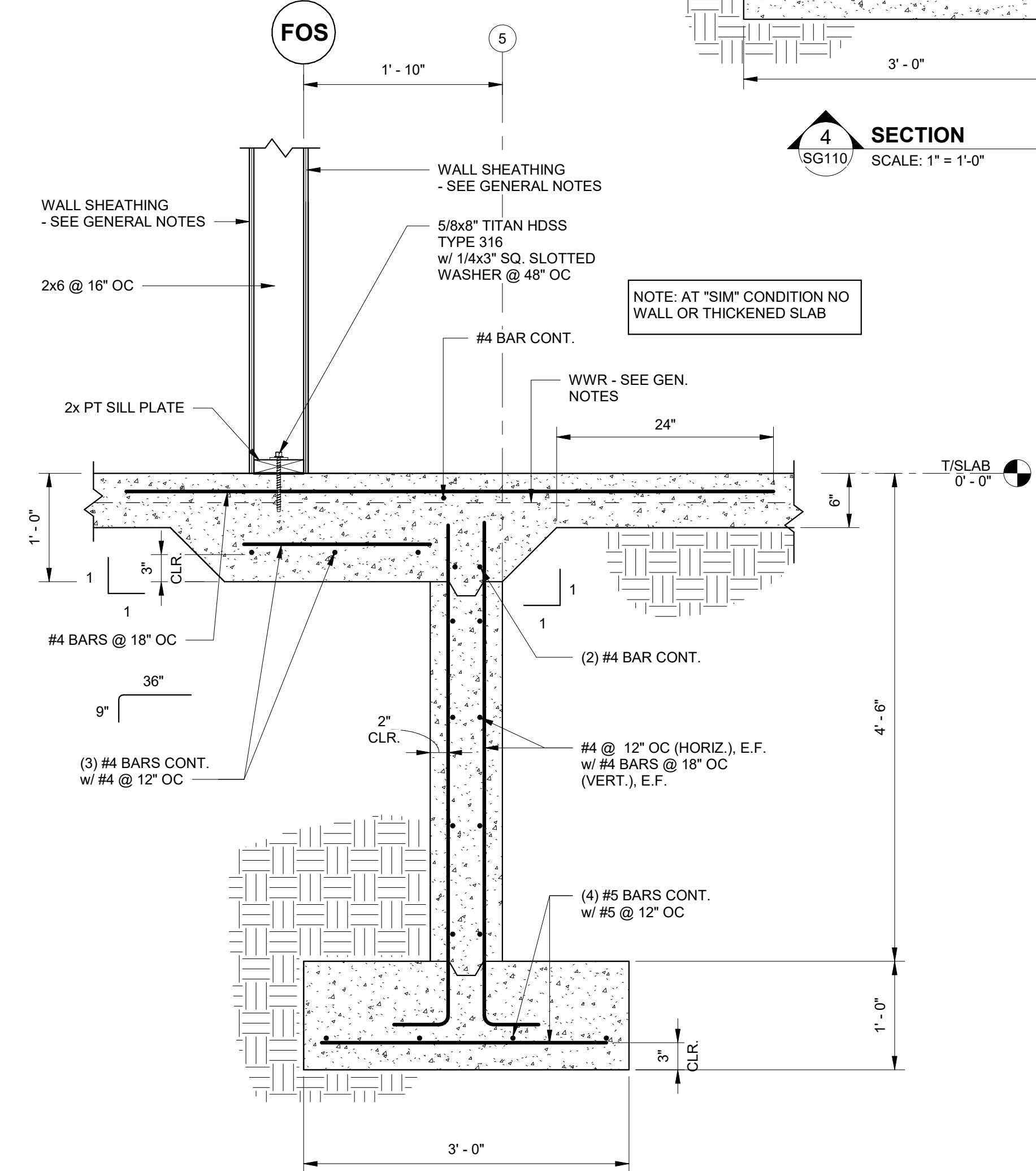
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SG110 SCALE: 1" = 1'-0"



5 SECTION  
SG110 SCALE: 1" = 1'-0"



6 SECTION  
SG110 SCALE: 1" = 1'-0"



7 SECTION  
SG110 SCALE: 1" = 1'-0"

Revisions	
Date	
No.	

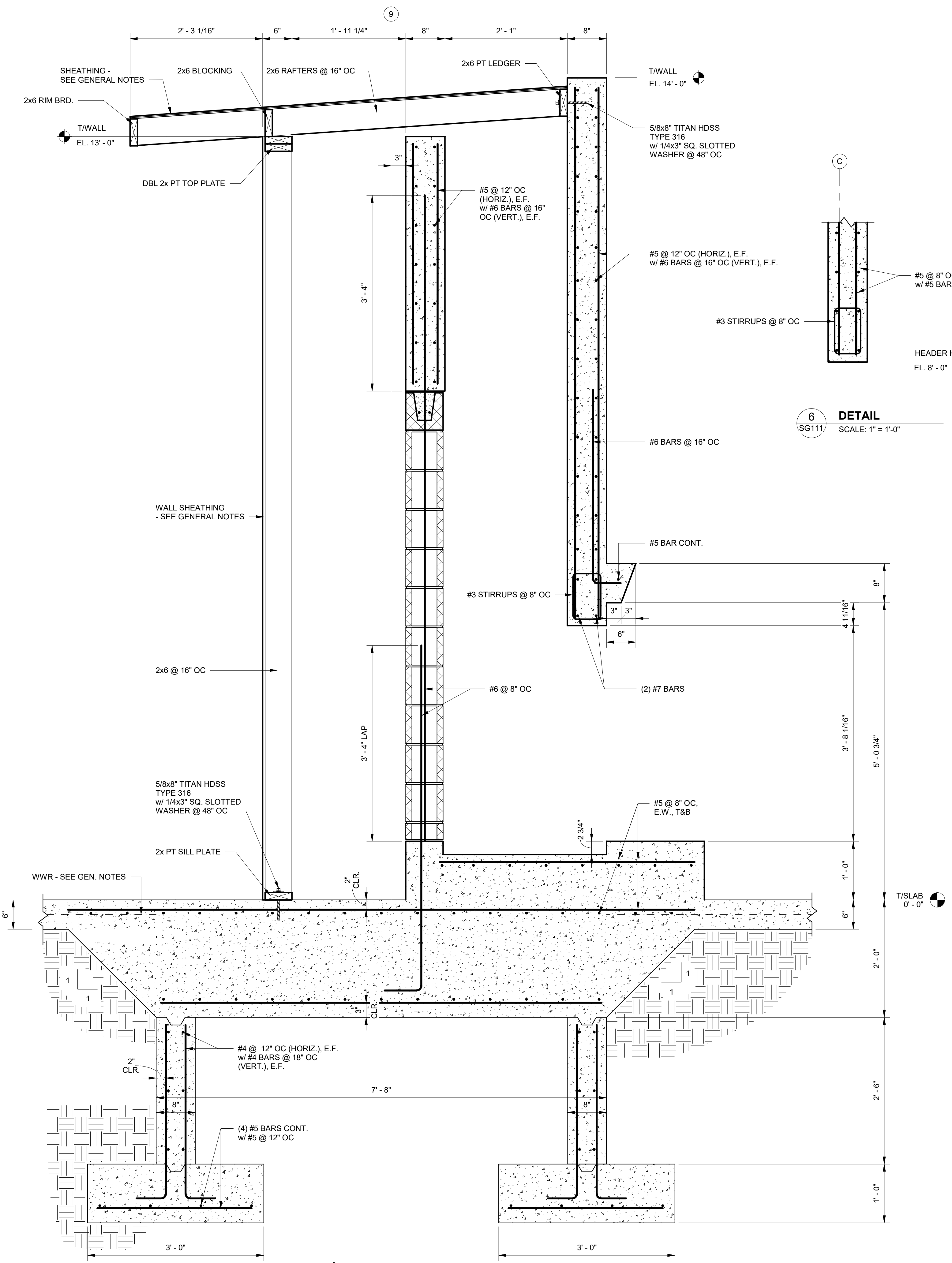
JOB  
20-1101-0049

PROJECT STATUS  
CONFORMANCE SET

DATE  
MARCH 24, 2023

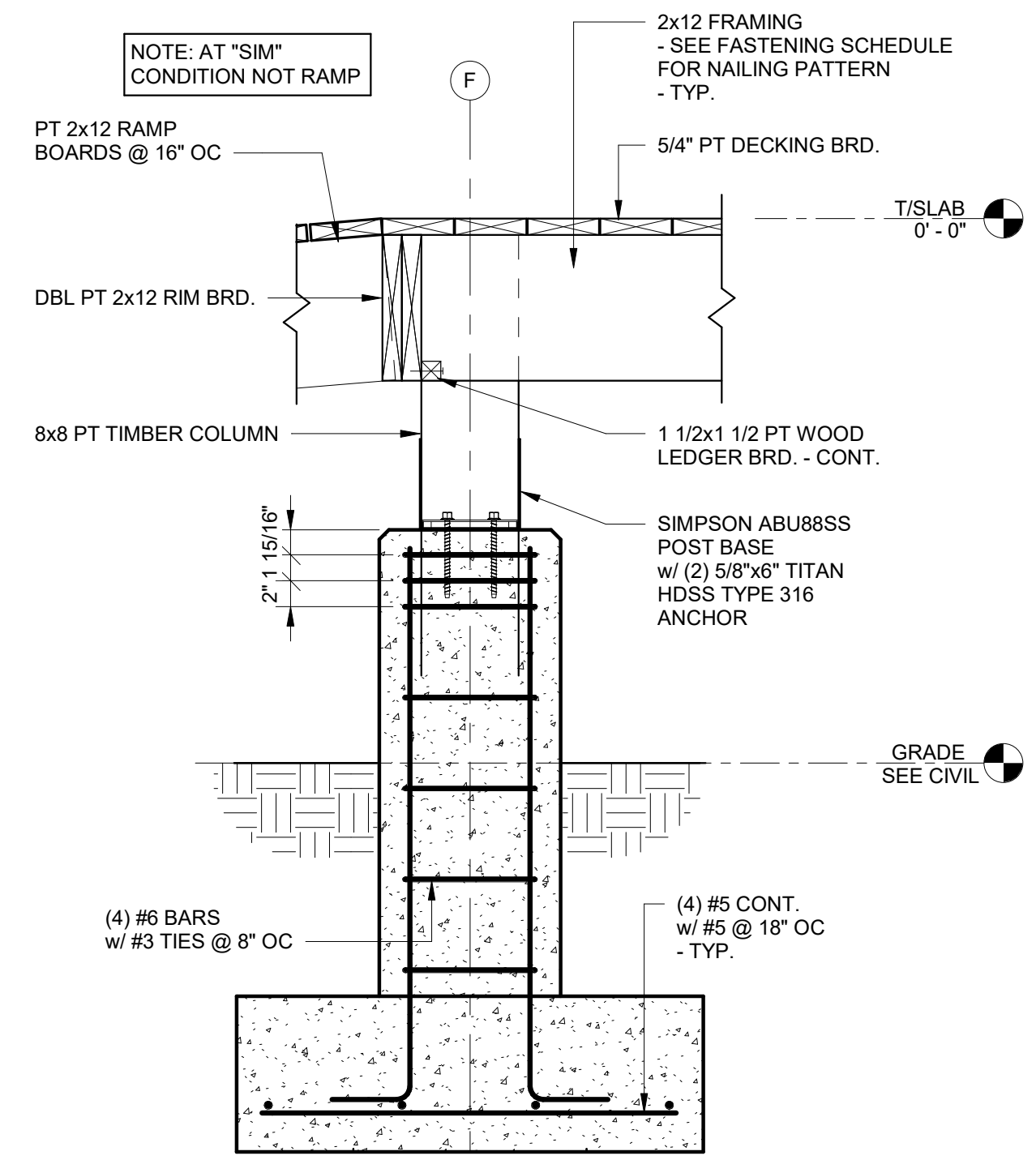
SHEET NAME  
SLAB SECTIONS AND DETAILS

SHEET NO.  
SG110

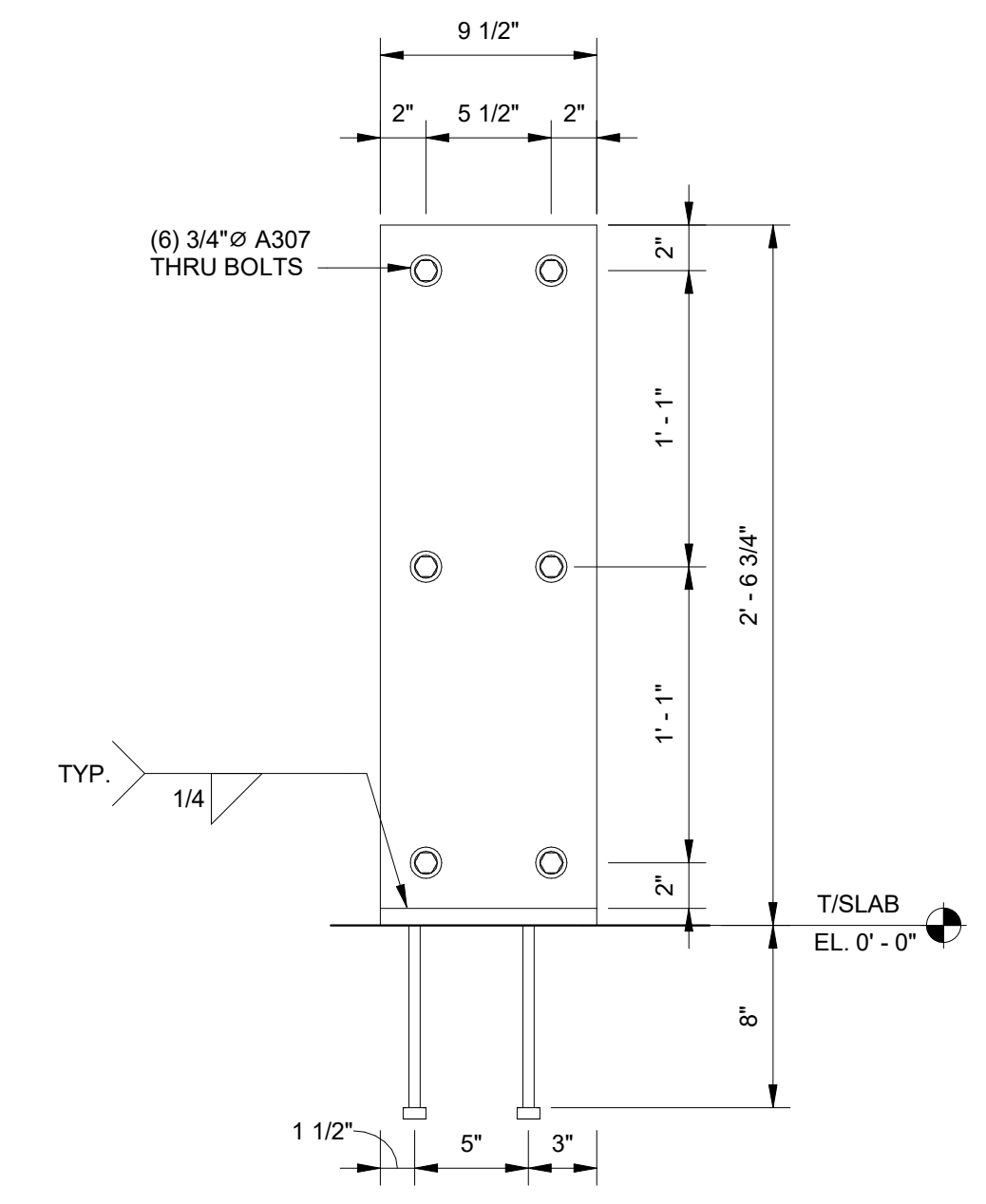


**6 DETAIL**  
SCALE: 1" = 1'-0"

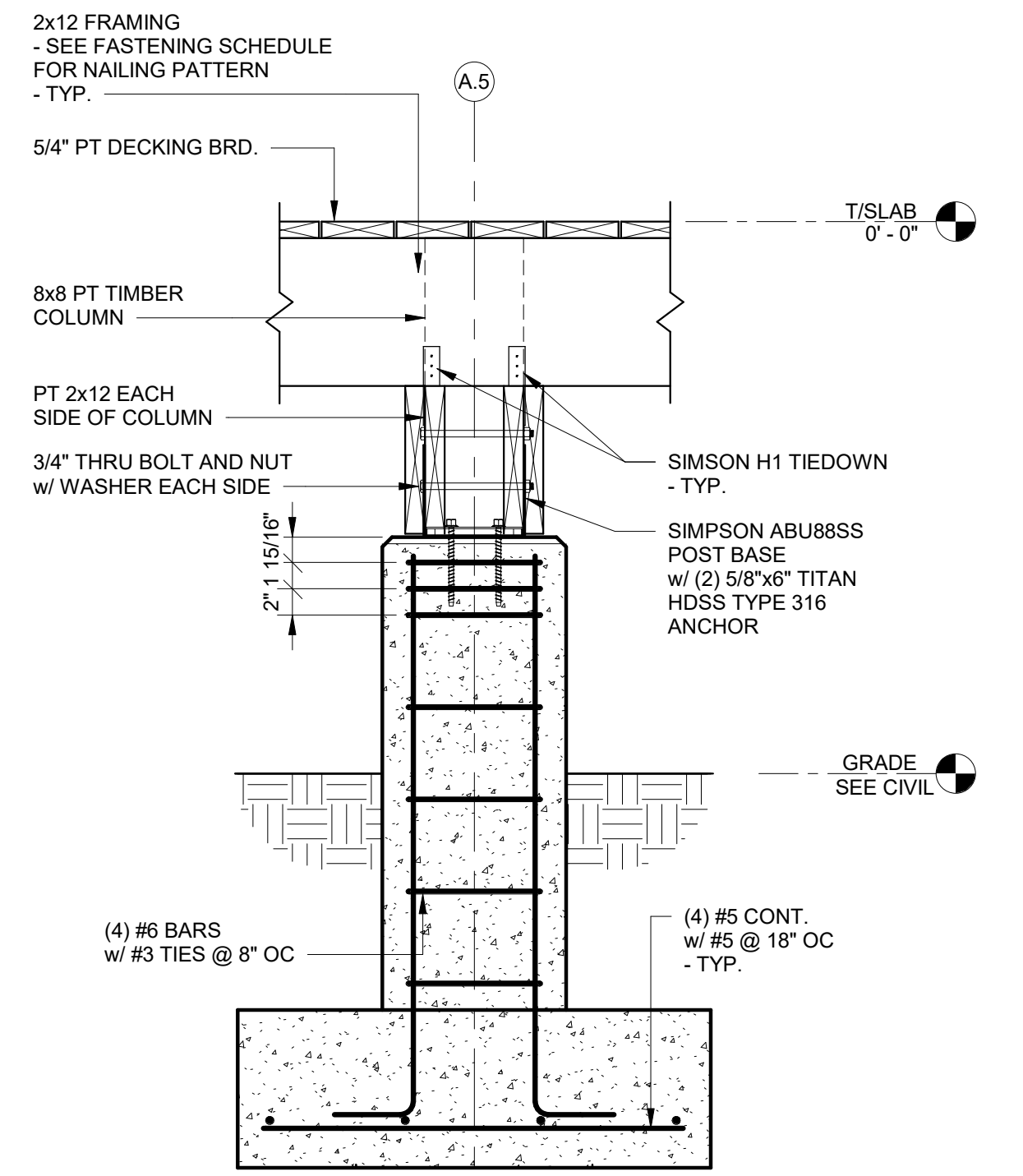
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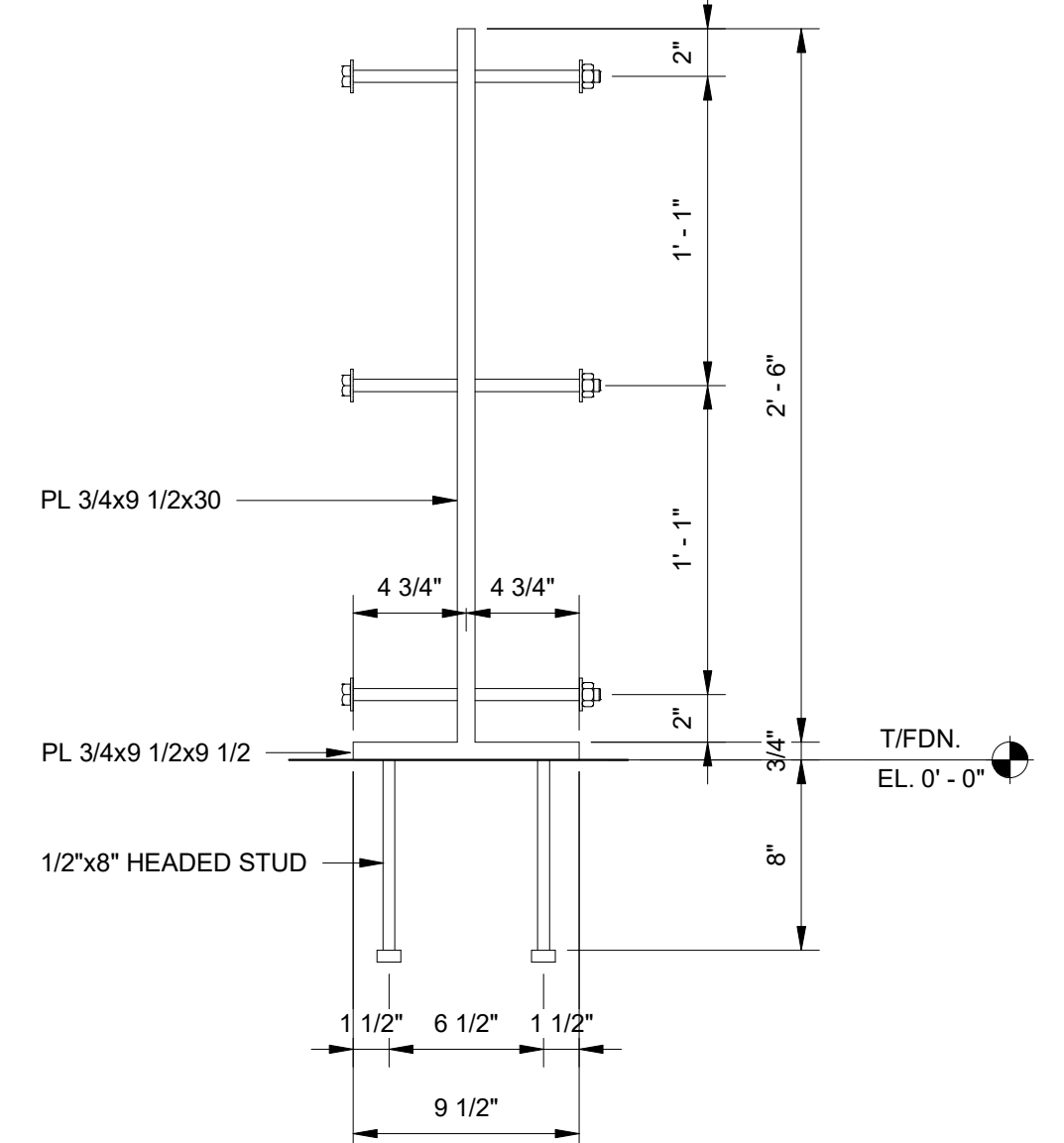
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SCALE: 1" = 1'-0"



**4 DETAIL**  
SCALE: 1 1/2" = 1'-0"



**3 SECTION**  
SCALE: 1" = 1'-0"



**5 DETAIL**  
SCALE: 1 1/2" = 1'-0"

Revision	Date	By	Check

JOB	20-1101-0049
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET NAME	SLAB SECTIONS AND DETAILS
SHEET NO.	SG111













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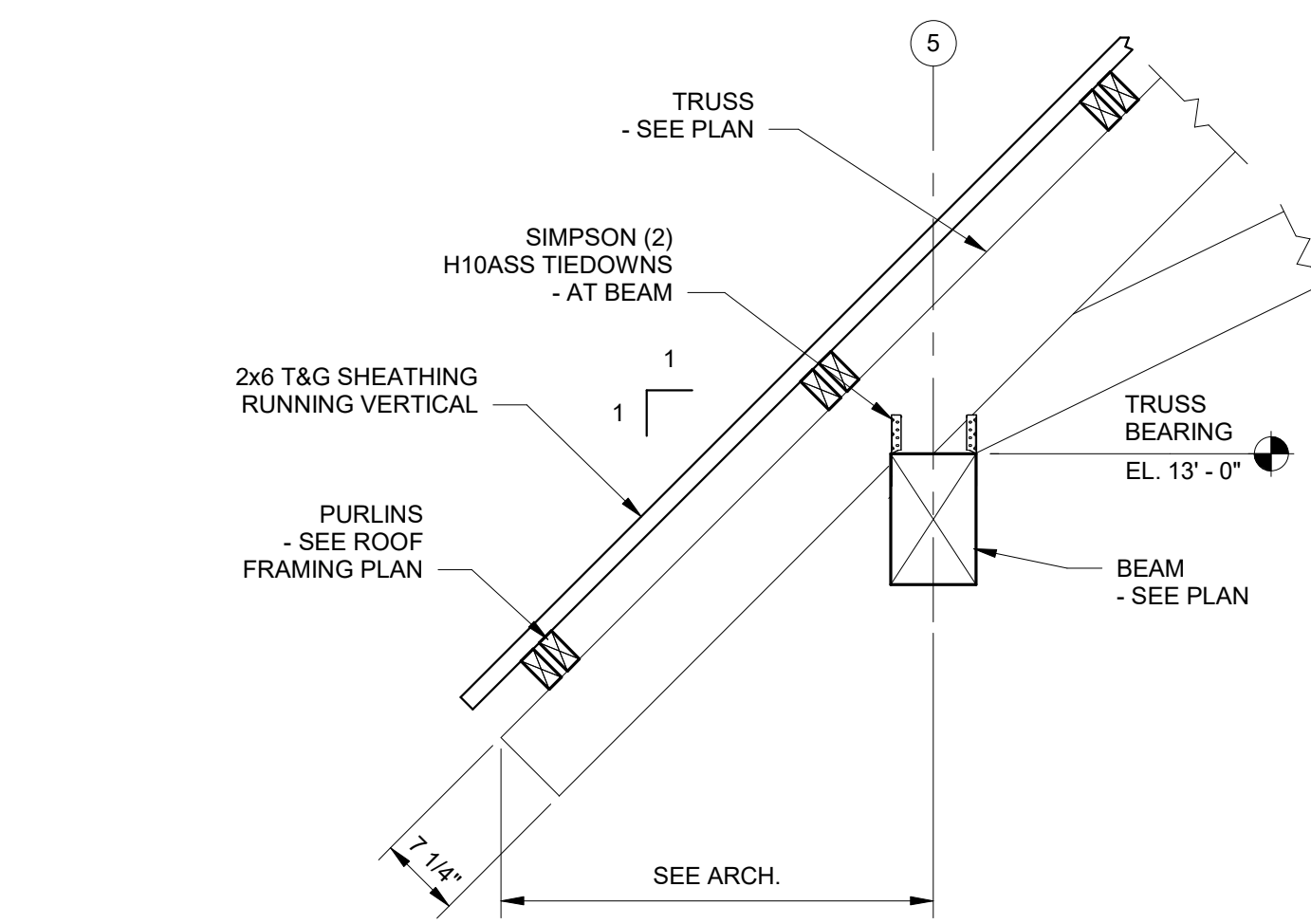
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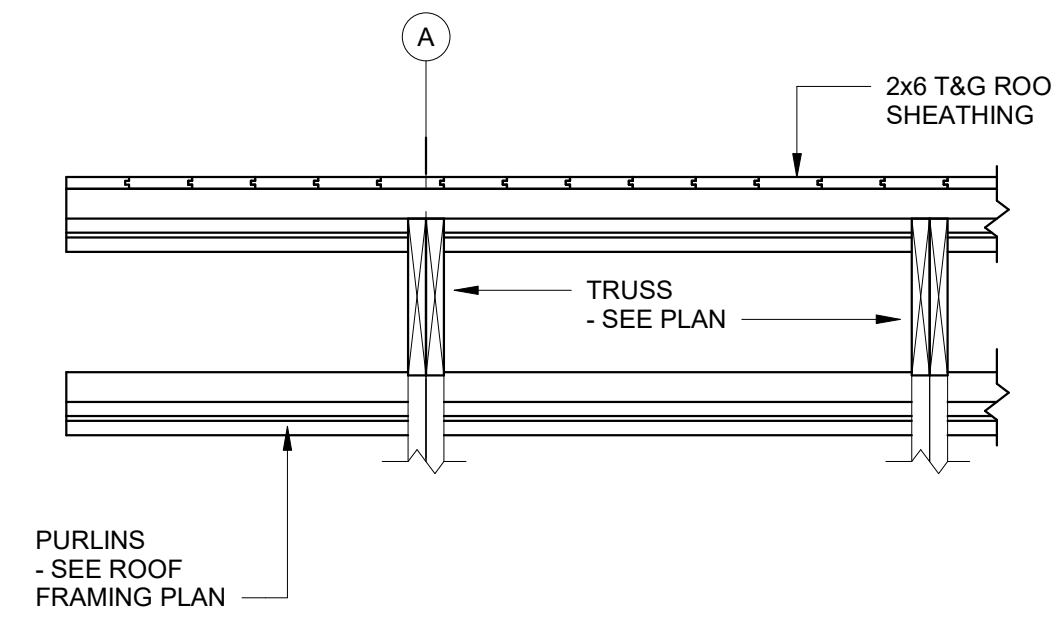
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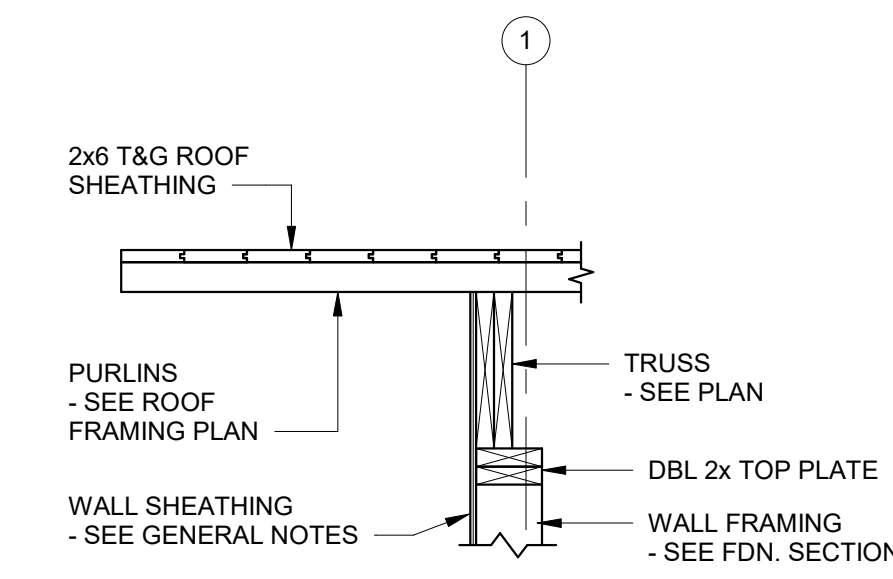
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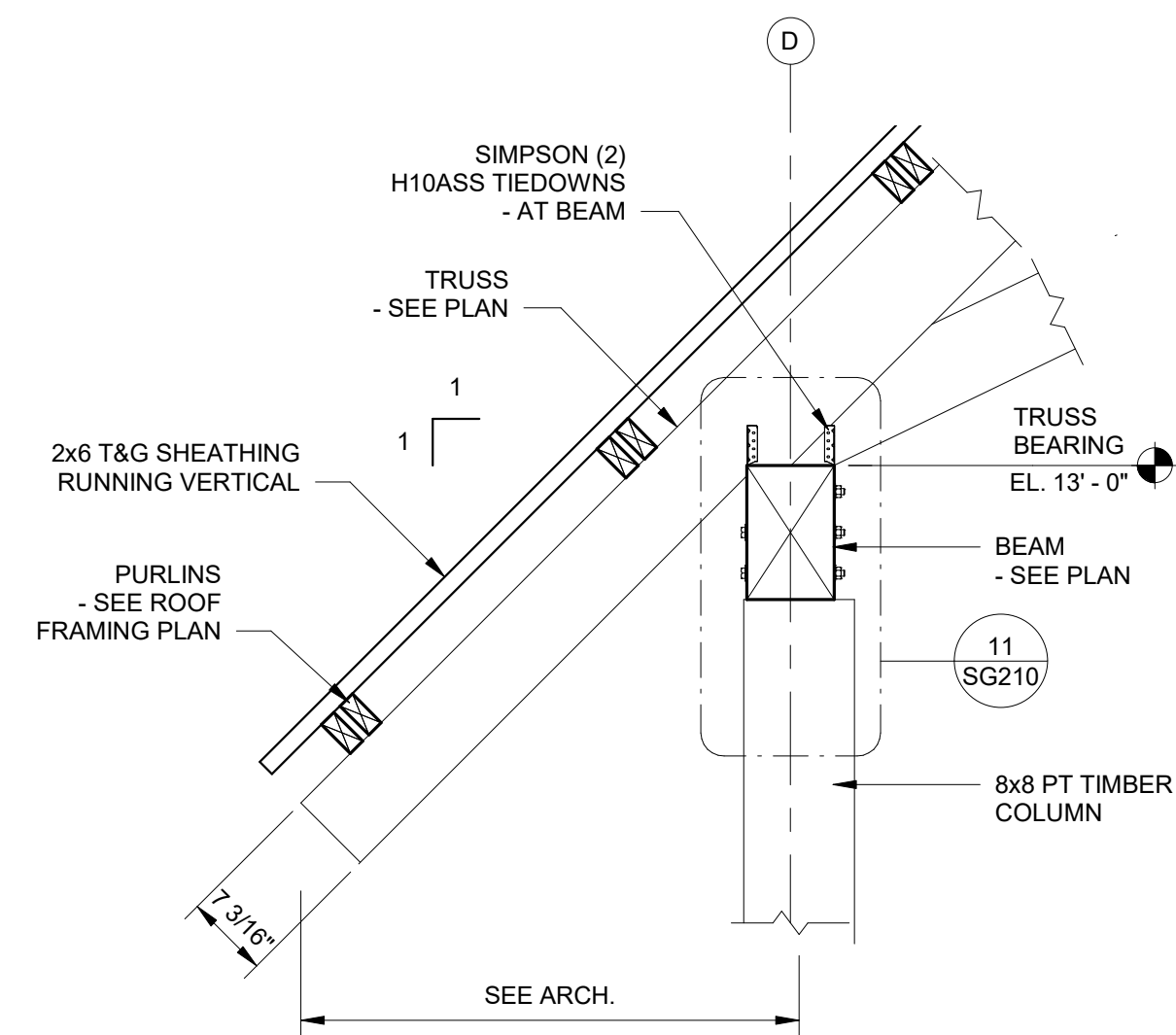
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SG210 SCALE: 3/4" = 1'-0"



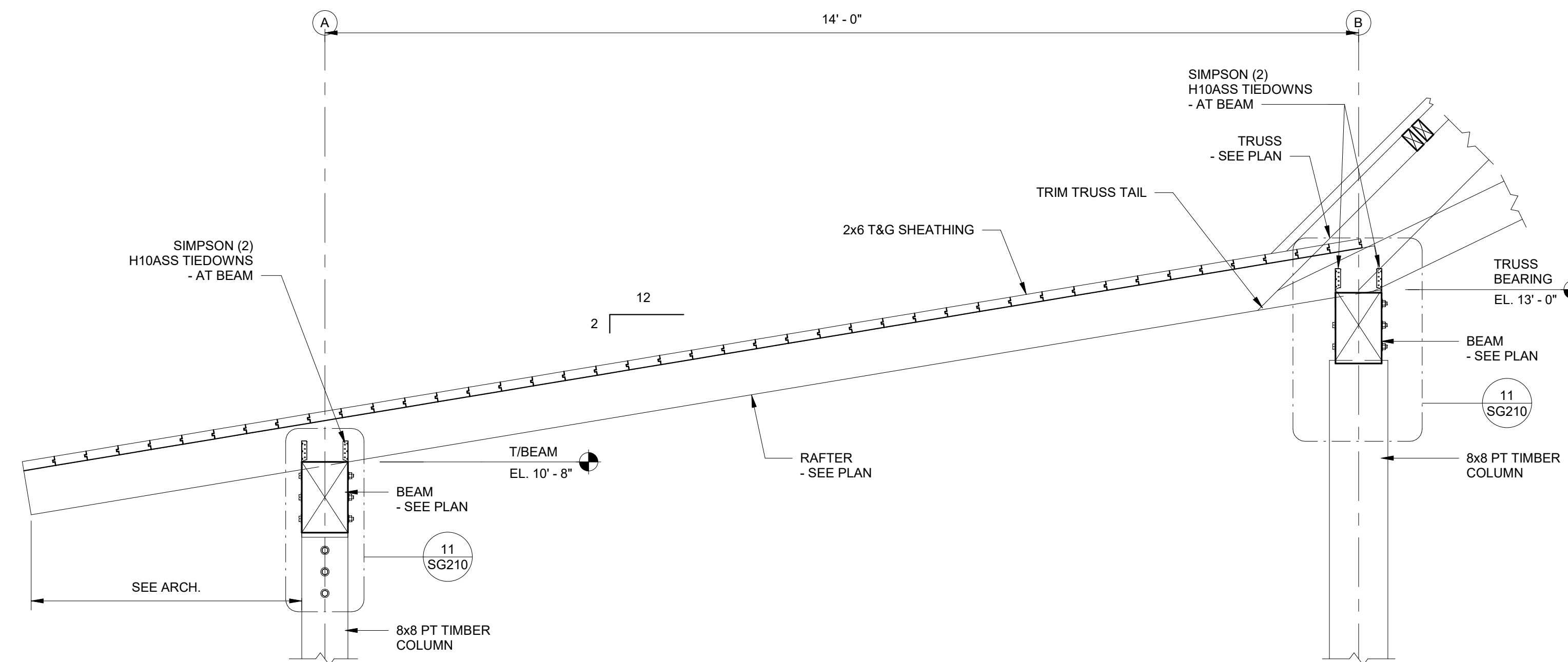
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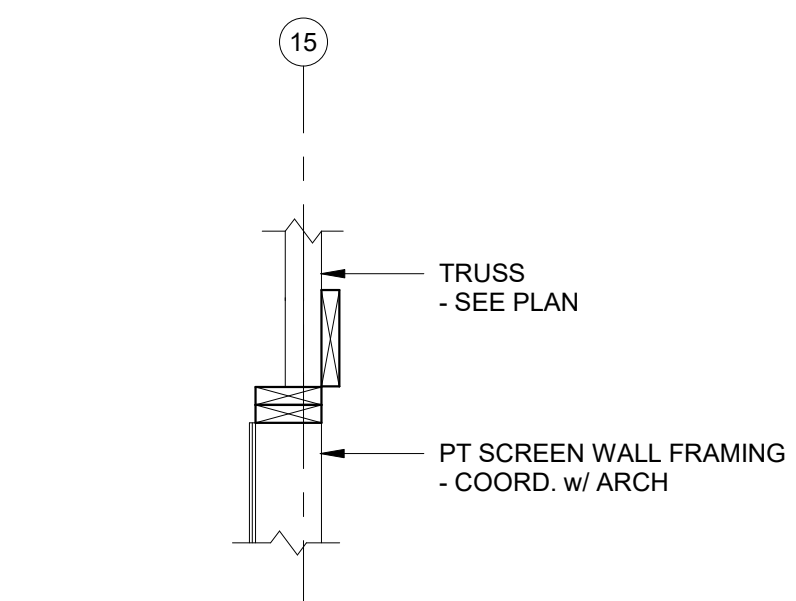
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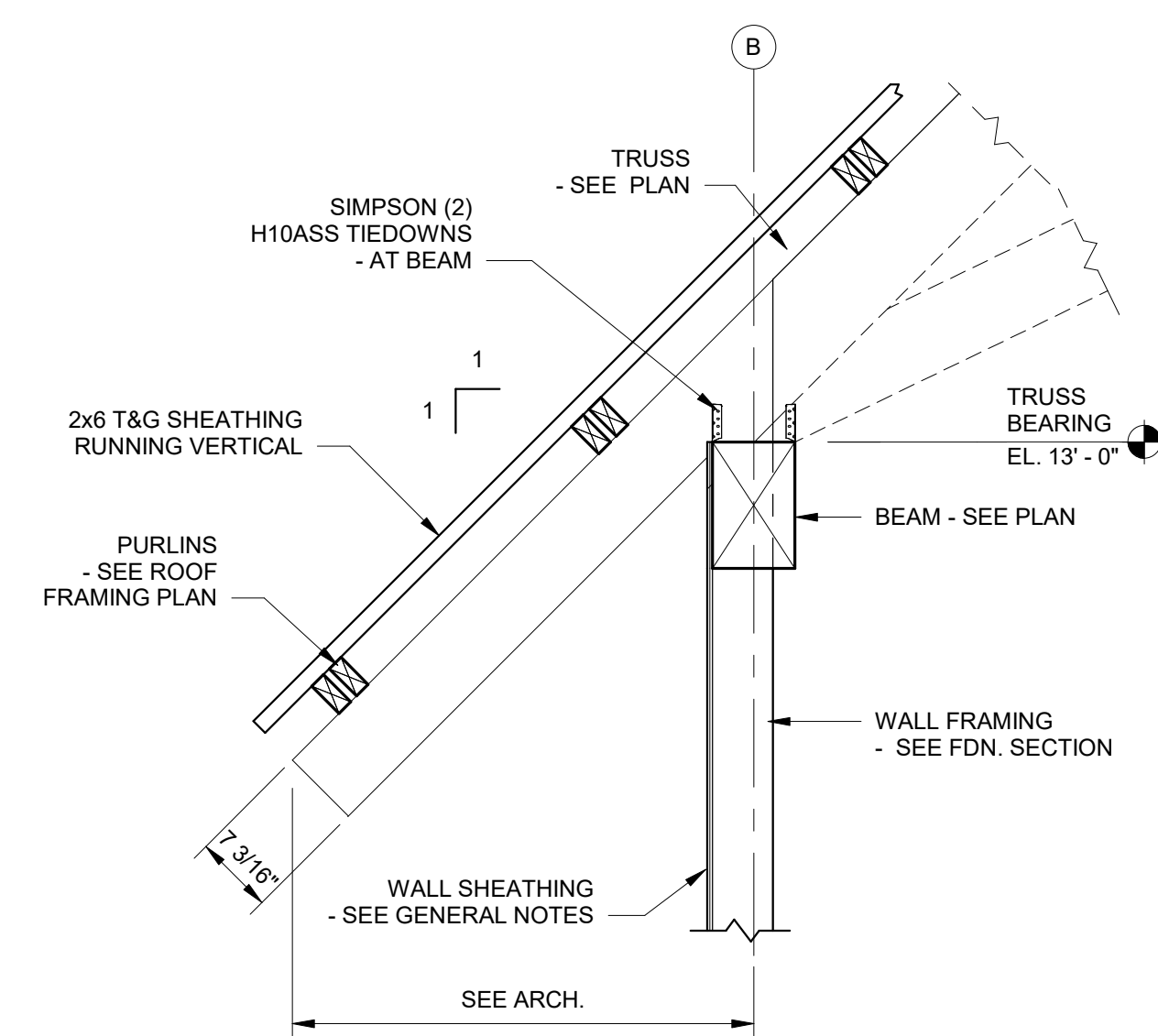
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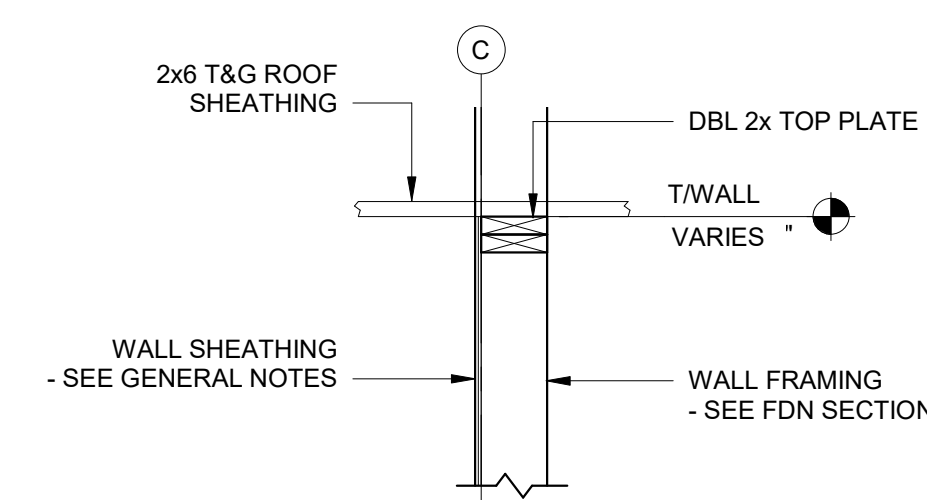
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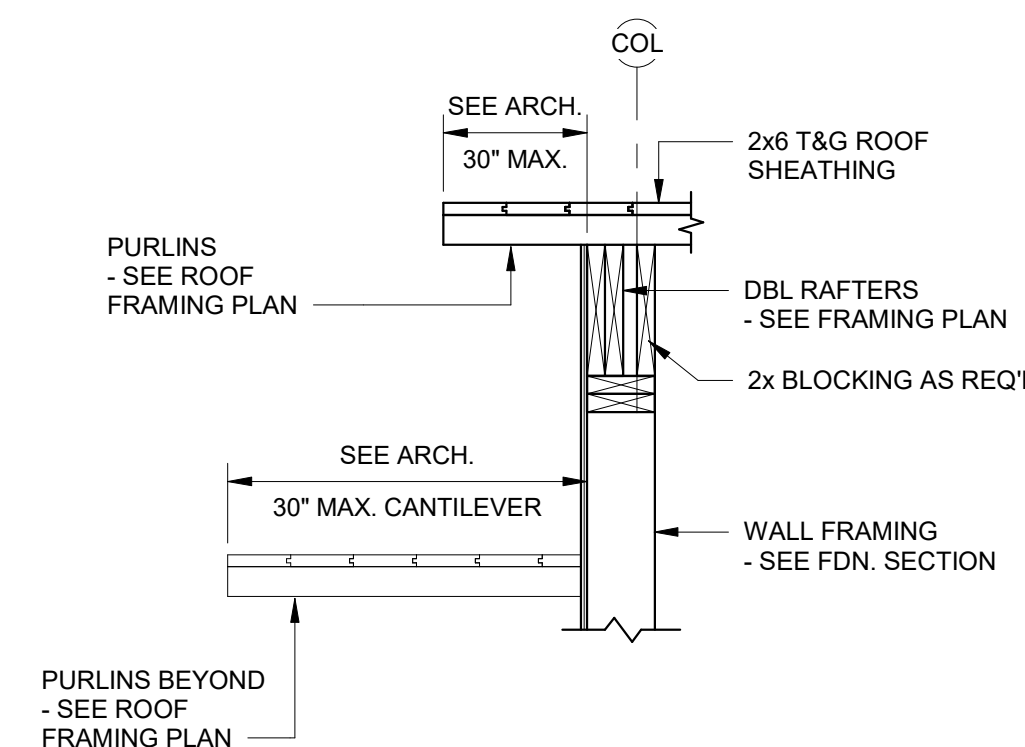
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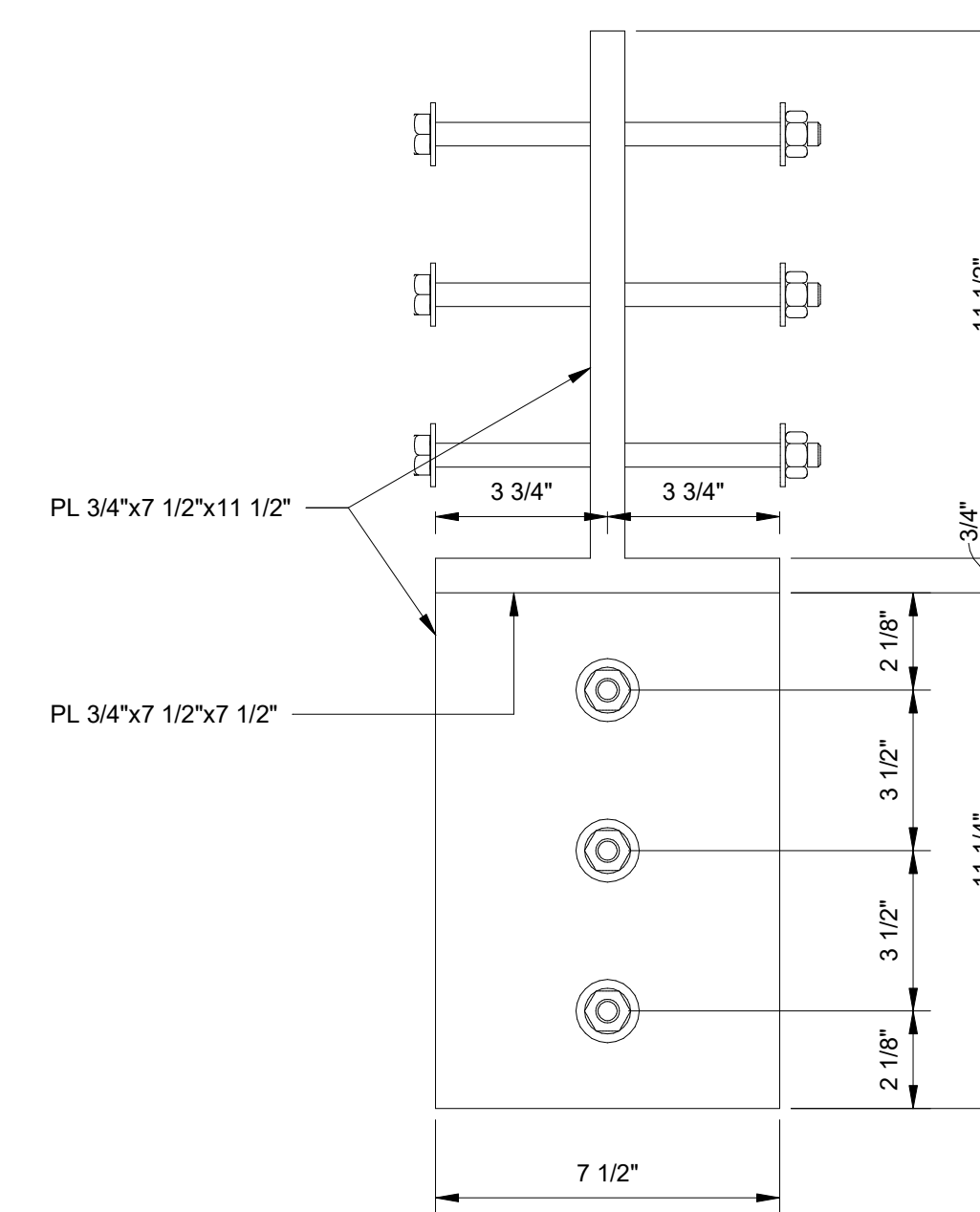
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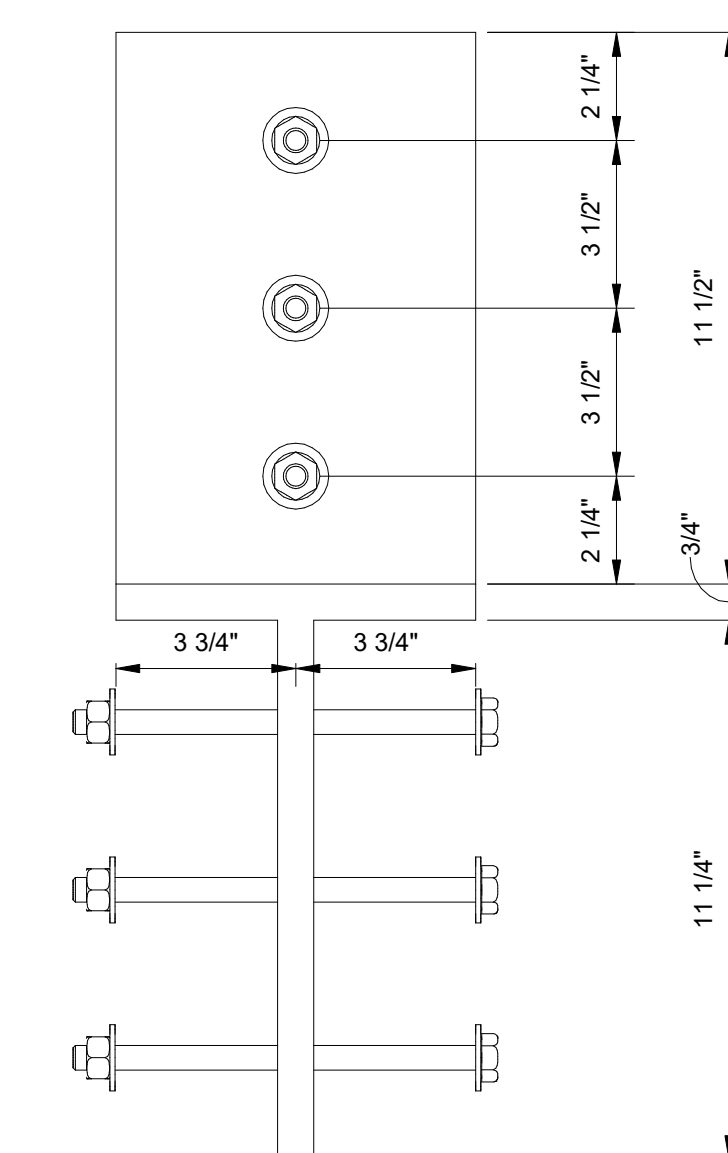
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SG210 SCALE: 3/4" = 1'-0"



**10 SECTION**  
SG210 SCALE: 3/4" = 1'-0"



**11 DETAIL**  
SG210 SCALE: 3" = 1'-0"



**12 DETAIL**  
SG210 SCALE: 3" = 1'-0"

No.	
Date	
Revision	

JOB  
**20-1101-0049**

PROJECT STATUS  
**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

SHEET NAME  
**ROOF FRAMING**

SECTIONS AND  
DETAILS

SHEET NO.  
**SG210**

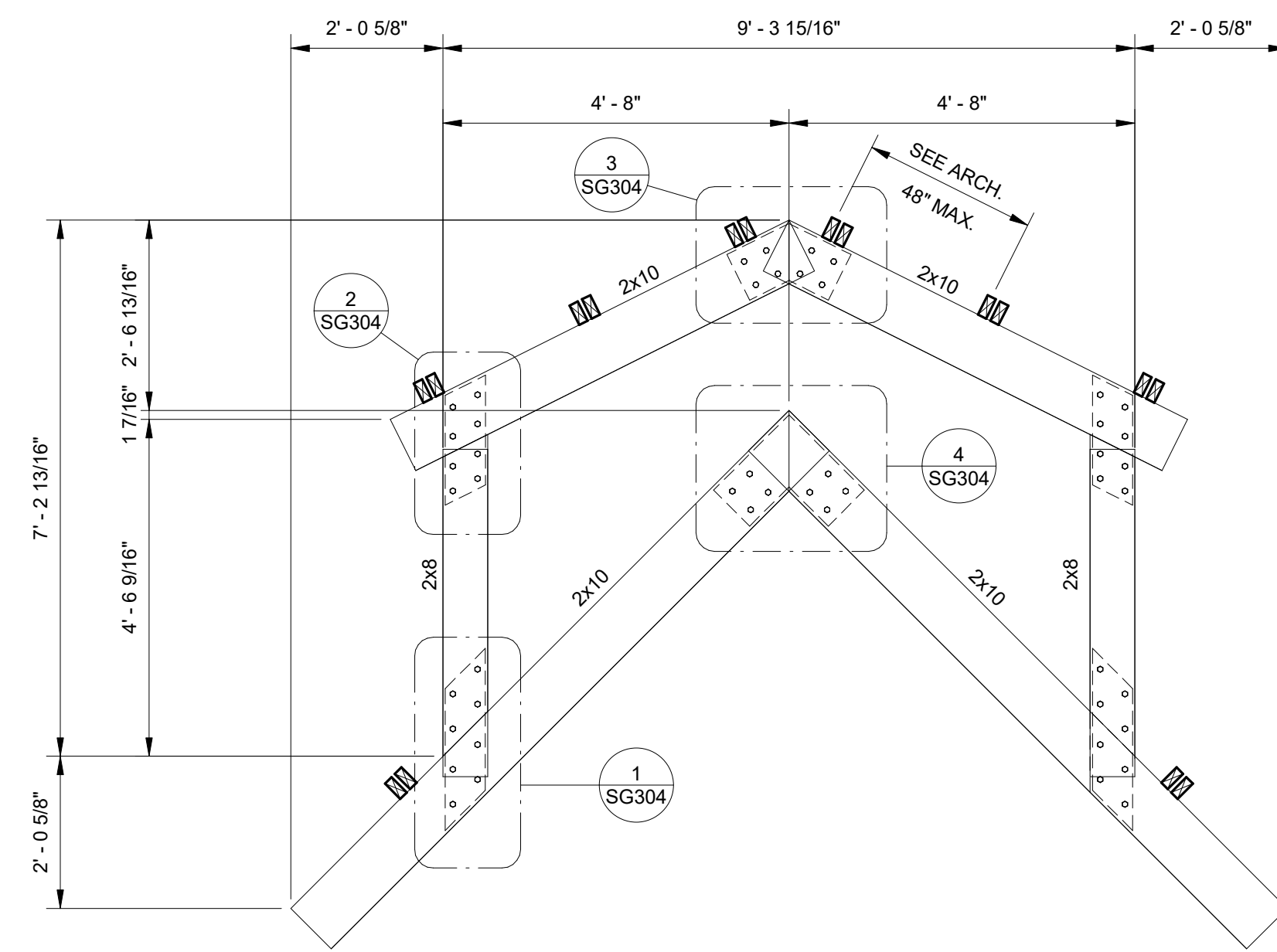




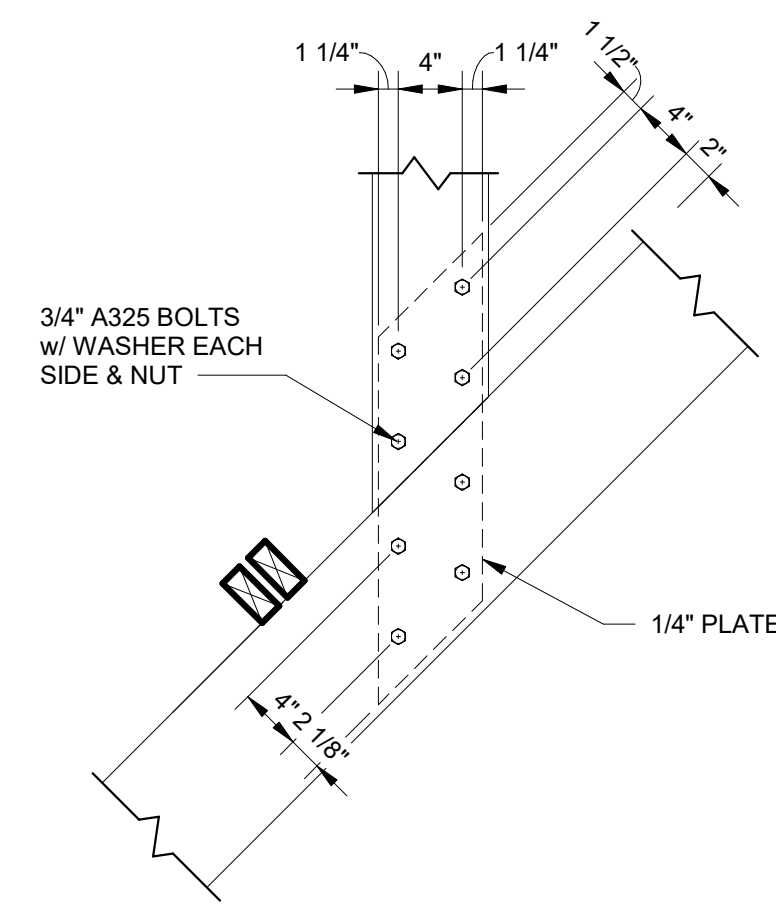




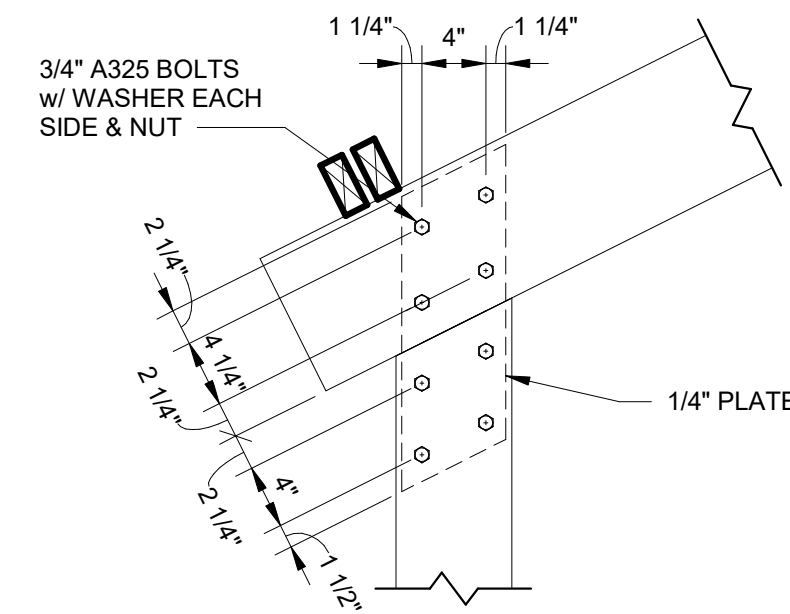




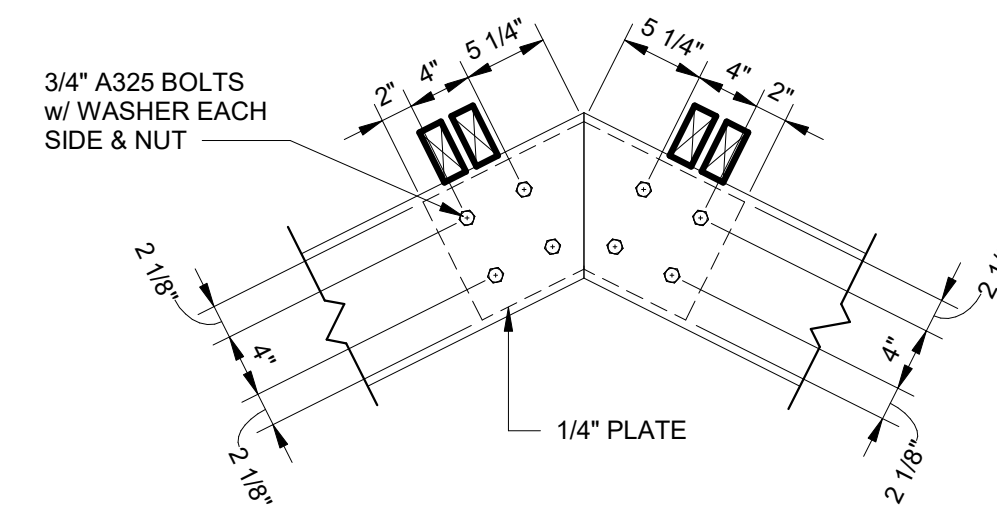
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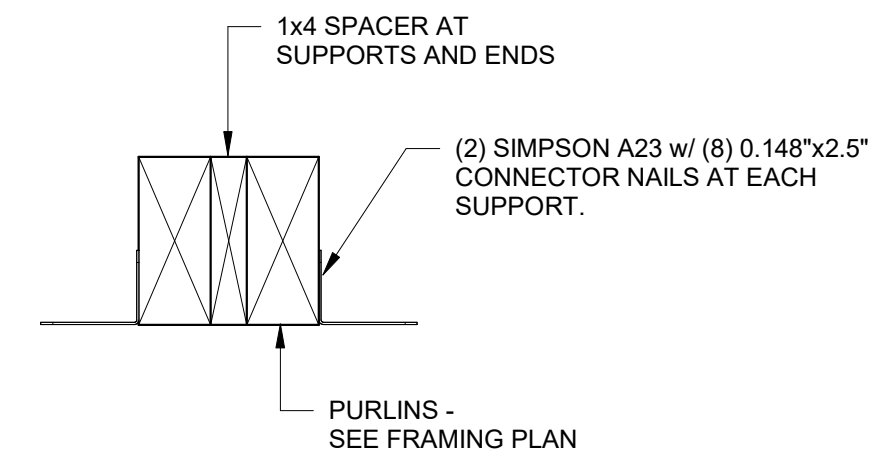
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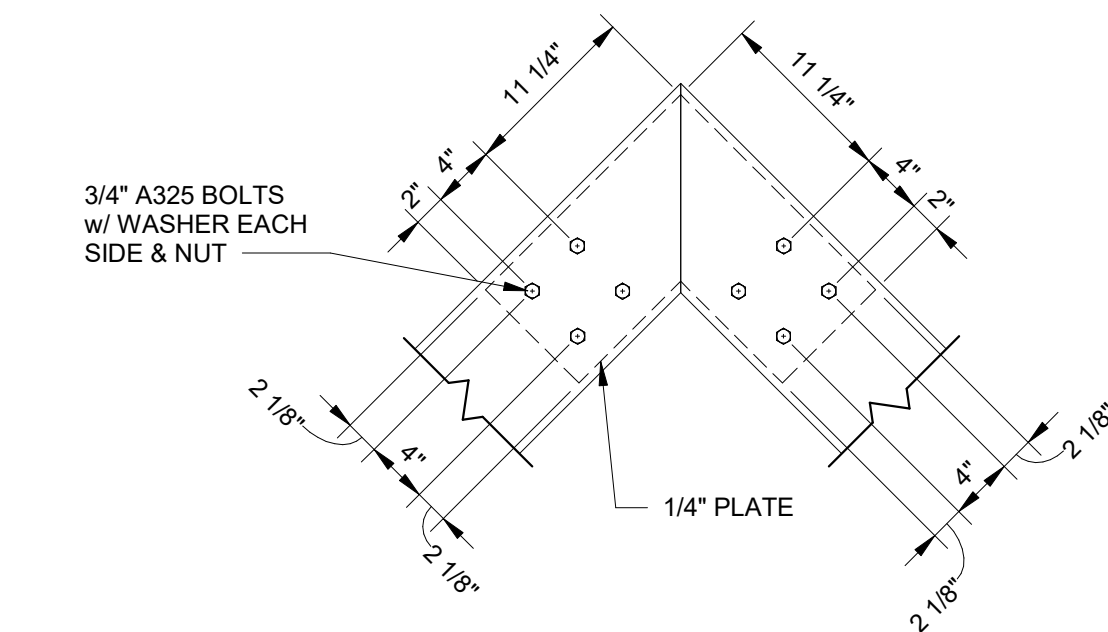
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**3** **DETAIL**  
SG304 SCALE: 1" = 1'-0"



**PURLIN DETAIL SG-5**  
SCALE: 3" = 1'-0"



**4** **DETAIL**  
SG304 SCALE: 1" = 1'-0"

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Date	
Revision	

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**20-1101-0049**

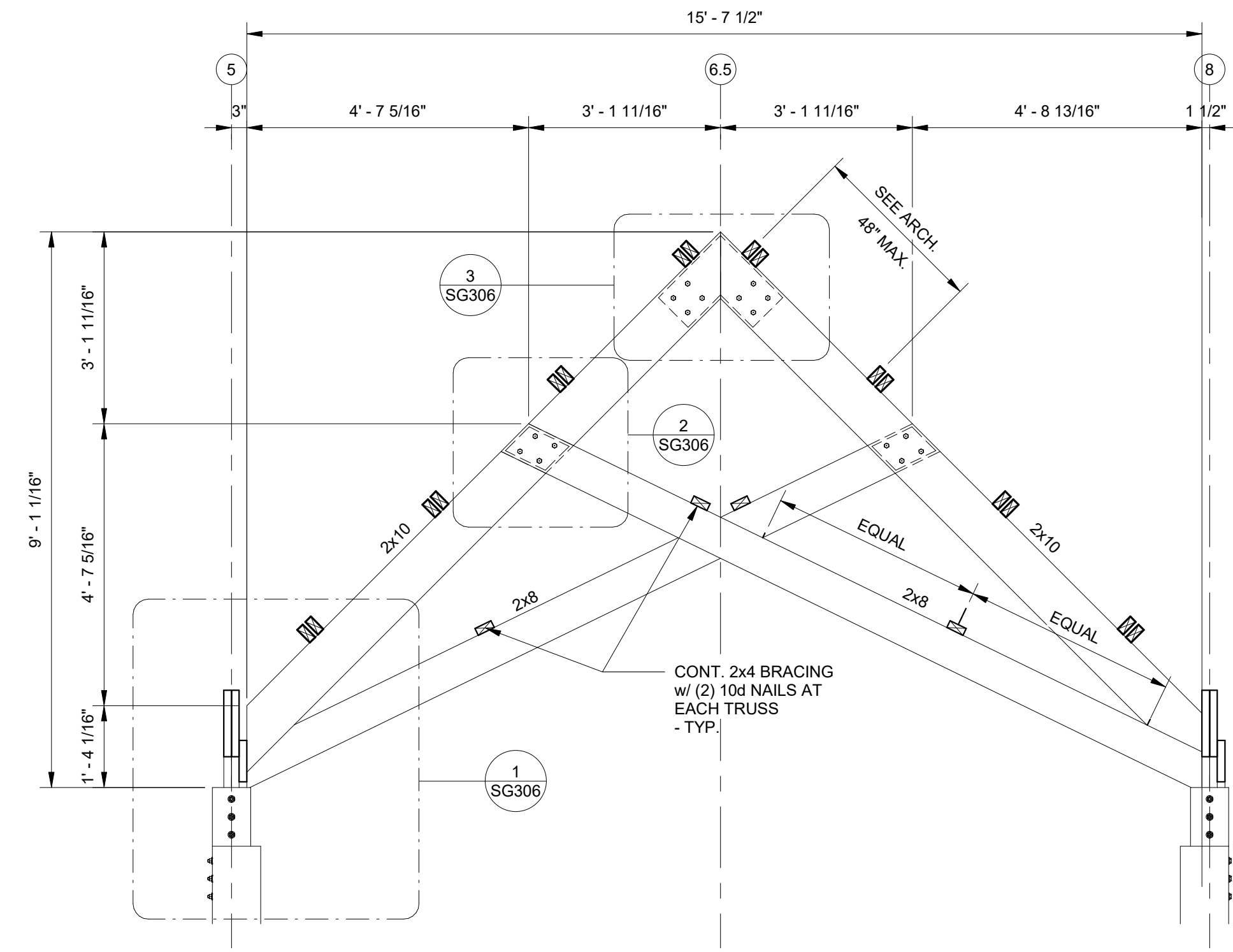
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**CONFORMANCE SET**

DATE  
**MARCH 24, 2023**

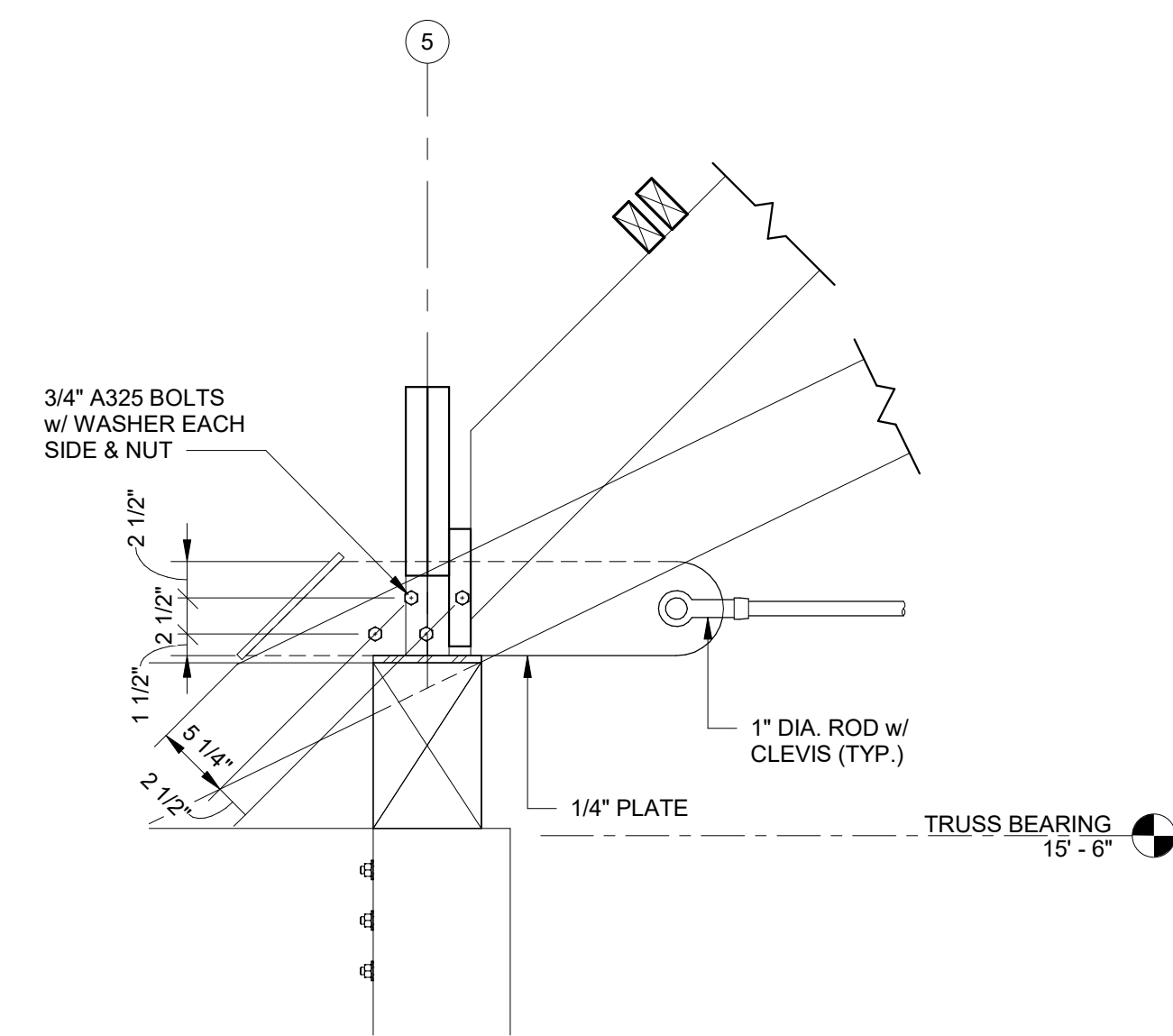
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SHEET NO.  
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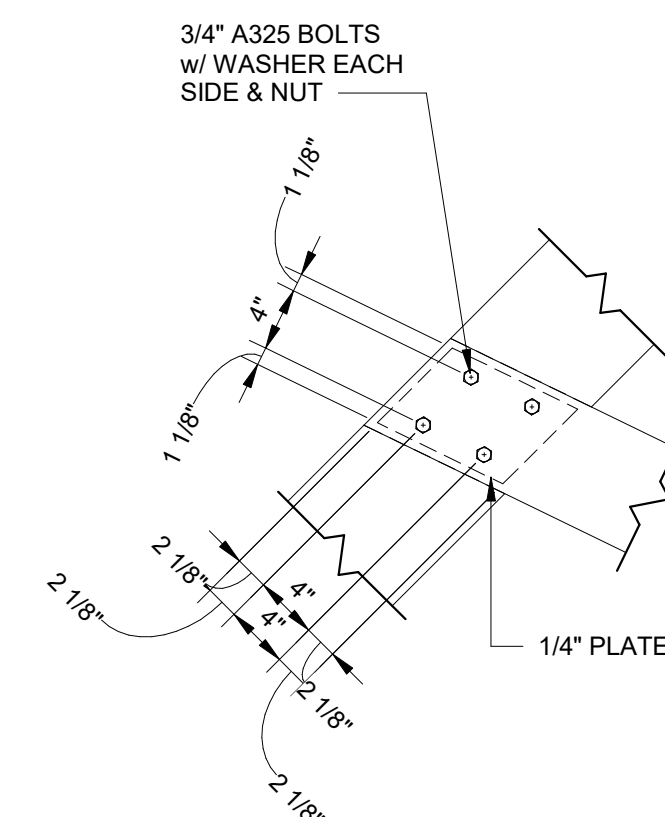




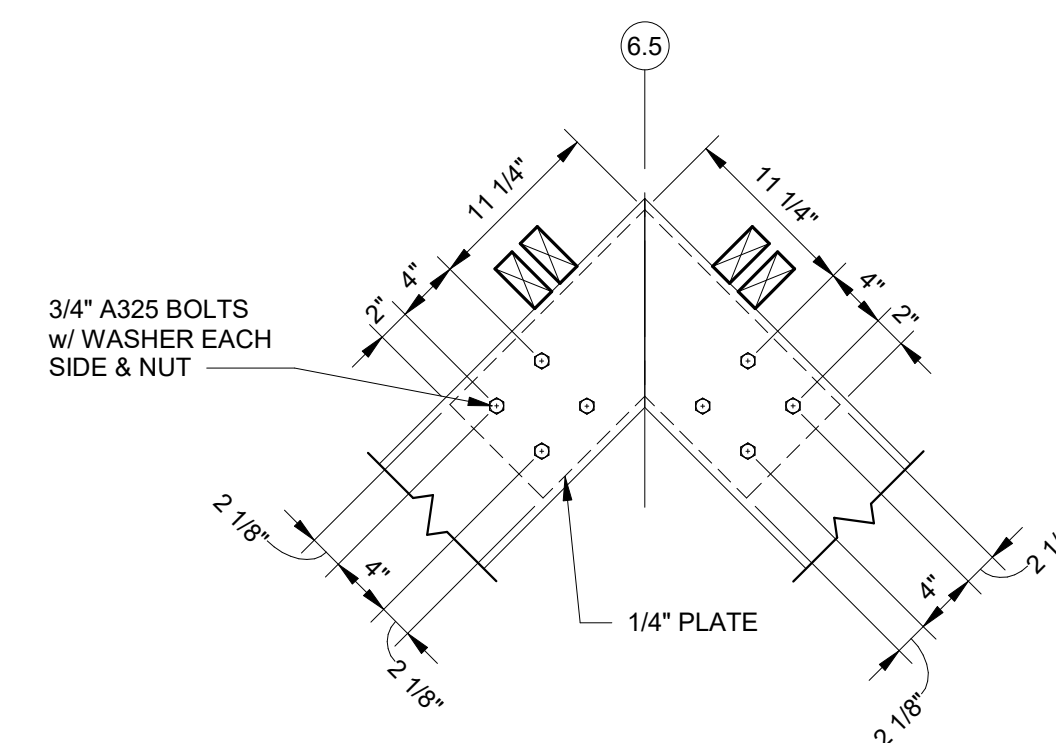
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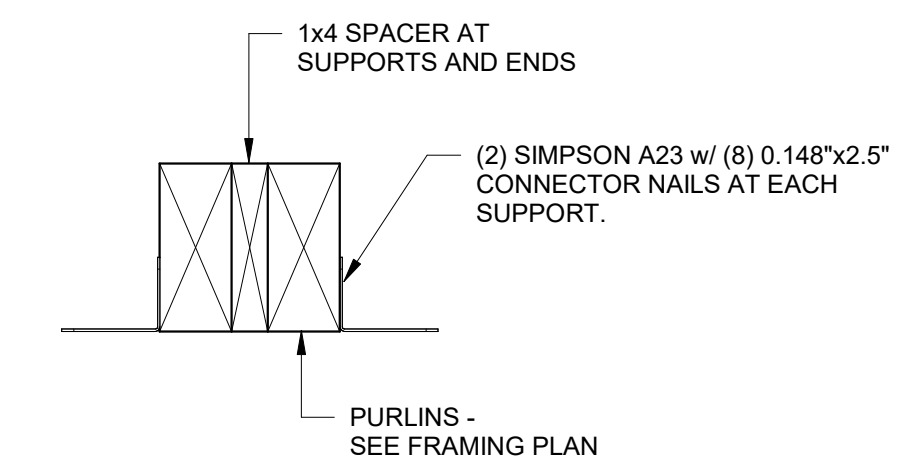
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**2** **DETAIL**  
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**3** **DETAIL**  
SG306 SCALE: 1" = 1'-0"



**PURLIN DETAIL SG-7**  
SCALE: 3" = 1'-0"

Revised	
By	
Date	
No.	

JOB  
**20-1101-0049**

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SHEET NAME  
**TRUSS ELEVATIONS**

SHEET NO.  
**SG306**

## HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)		-FIRE DAMPER (WITH ACCESS PANEL)		-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-ROUND DIFFUSER		-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)		-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-CEILING RETURN		-SOUND ATTENUATOR		-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-CEILING EXHAUST		-MOTOR OPERATED CONTROL DAMPER (MOD)		-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)		-AIR FLOW MEASURING STATION		-ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)		-MANUAL BALANCING DAMPER		-HYDRONIC REHEAT COIL
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)		-DOOR GRILLE		-INLINE CENTRIFUGAL FAN
	-REVISION REFERENCE		-UNDERCUT DOOR		-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON		-ACCESS DOORS, VERTICAL OR HORIZONTAL		-CHANGE OF ELEVATION
	-THERMOSTAT/TEMPERATURE SENSOR		-STAINLESS STEEL DUCTWORK		-FLEXIBLE DUCT
	-HUMIDISTAT/HUMIDITY SENSOR		-FLEXIBLE CONNECTION		-TRANSITION, CONCENTRIC
	-DUCT SMOKE DETECTOR		-NEW FLAT OVAL DUCT		-TRANSITION, ECCENTRIC
	-CONNECT TO EXISTING		-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN		-TRANSITION, SQUARE TO ROUND
	-DEMOLISH TO POINT INDICATED		-EXISTING DUCTWORK TO REMAIN		-SQUARE THROAT TEE
	-MOTORIZED CONTROL DAMPER		-EXISTING DUCTWORK TO BE REMOVED		-RADIUS TEE
	-TEMPERATURE SENSOR		-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING		-RECTANGLE-TO-ROUND TAKE-OFF
	-PRESSURE SENSOR		-DUCT ELBOW, EXHAUST		-STANDARD BRANCH TAKE-OFF
	-BACKDRAFT DAMPER		-DUCT ELBOW, NEGATIVE PRESSURE, RETURN		-SPIN-IN TAKE-OFF
	-NEUTRAL RELATIVE PRESSURE		-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE		
	-POSITIVE RELATIVE PRESSURE		-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR		
	-NEGATIVE RELATIVE PRESSURE		-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN		
	-SHEET NOTE CALLOUT		-RECTANGULAR DUCT SECTION UP, EXHAUST		
	-SHEET NOTE CALLOUT		-ROUND DUCT SECTION UP		
	-SHEET NOTE CALLOUT		-FLAT OVAL DUCT SECTION UP		
	-CEILING MOUNTED ACCESS DOOR				
	-SQUARE THROAT ELBOW WITH TURNING VANES				
	-RADIUS ELBOW				
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF				
	-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE				
	-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF				

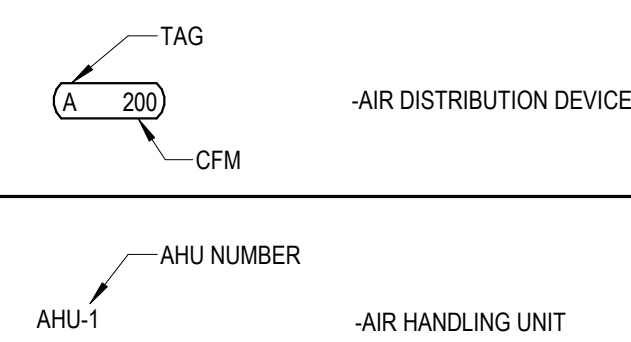
## HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE	LD	-LINEAR DIFFUSER
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOC	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
BOP	-BOTTOM OF PIPE	NC	-NORMALLY CLOSED
BHP	-BRAKE HORSEPOWER	NO	-NORMALLY OPEN
BTU	-BRITISH THERMAL UNIT	NTS	-NOT TO SCALE
CL	-CENTER LINE	OA	-OUTSIDE AIR
CFM	-CFM (CUBIC FEET PER MINUTE)	OAL	-OUTSIDE AIR LOUVER
CD	-CEILING DIFFUSER	PRV	-PRESSURE REDUCING VALVE
CT	-COOLING TOWER	PRS	-PRESSURE REDUCING STATION
CV	-CONSTANT AIR VOLUME	PSI	-POUNDS PER SQUARE INCH
ΔP	-CHANGE IN PRESSURE	PSIG	-PSI GAUGE
ΔT	-CHANGE IN TEMPERATURE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CFM	-CUBIC FEET PER MINUTE	PVC	-POLYVINYL CHLORIDE PIPE
CU	-CONDENSING UNIT	RA	-RETURN AIR
DDC	-DIRECT DIGITAL CONTROLS	RHC	-REHEAT COIL
DN	-DOWN	RHP	-ROOFTOP HEAT PUMP
EAT	-ENTERING AIR TEMPERATURE	RPM	-REVOLUTIONS PER MINUTE
ESP	-EXTERNAL STATIC PRESSURE	RS/L	-REFRIGERANT SUCTION & LIQUID LINES
EW	-ENTERING WATER TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
FCU	-FAN COIL UNIT	SA	-SUPPLY AIR
FD	-FIRE DAMPER	SP	-STATIC PRESSURE
FF	-FINAL FILTERS	TSP	-TOTAL STATIC PRESSURE
FLA	-FULL LOAD AMPS	UNO	-UNLESS NOTED OTHERWISE
FPM	-FEET PER MINUTE	VPH	-VOLTS/PHASE
GPM	-GALLONS PER MINUTE	VAV	-VARIABLE AIR VOLUME
KW	-KILOWATT	VFD	-VARIABLE FREQUENCY DRIVE
LAT	-LEAVING AIR TEMPERATURE		
LWT	-LEAVING WATER TEMPERATURE		

## HVAC GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
- DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
- ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
- PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
- PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
- INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
- ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
- MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
- LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
- DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
- PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT. EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

## HVAC EQUIPMENT TAGS



## FAN SCHEDULE GATHERING

PLAN MARK	MODEL	AREA SERVED	TYPE	TOTAL CFM	EXT. SP (IN WG.)	MAX FAN BHP	MOTOR HP	INPUT WATTS	FAN RPM	VOLTS/PHASE	WEIGHT (lb)	NOTES
EF-G-1	SQ-95VG	GATHERING RESTROOMS	DIRECT DRIVE INLINE	500	0.35	0.09	.1	NA	1725	115/1	75	1,3,4
EF-G-2	SP 80 VG	GATHERING STORAGE	CEILING MOUNTED	50	0.5	NA	NA	6	935	115/1	15	1,2,4

1. UL 705 LISTED EC MOTOR WITH VARIABLE SPEED DIAL, OR SPEED VARIED BY POTENTIOMETER. PROVIDE ALL ALUMINUM BACKDRAFT DAMPER.  
 2. CONTROL BY 365 DAY PROGRAMMABLE THERMOSTAT ON WALL. FAN TO RUN WHENEVER INDOOR TEMPERATURE IS ABOVE 78 DEG (ADJ)  
 3. CONTROL BY 365 DAY PROGRAMMABLE THERMOSTAT ON WALL WITH TIME OF DAY SCHEDULE TO RUN WHENEVER OCCUPIED.  
 4. DISCONNECT BY ELECTRICAL.

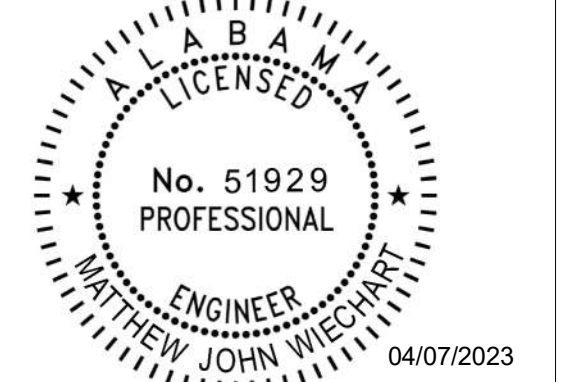
## AIR DISTRIBUTION SCHEDULE

PLAN MARK	CFM	NECK SIZE	FACE SIZE	DESCRIPTION	ADDITIONAL REQUIREMENTS
B	000-145 146-315 316-480 481-630 631-825 826-1120 1121-1450 1451-1945 1946-2165	6x6 8x8 10x10 12x12 14x14 16x16 18x18 20x20 22x22	FACE EQUALS NECK SIZE PLUS 2"	BASIS OF DESIGN: PRICE-80 COLOR: AS SELECTED BY ARCHITECT MATERIAL: ALUMINUM VOLUME DAMPERS: NO 1/2"x1/2"x1/2" EGGRATE GRID, SQUARE NECK & FACE. FOR RETURN & EXHAUST, SIZE PER SCHEDULE FOR TRANSFER, SEE PLANS FOR SIZE.	RETURN/EXHAUST CEILING GRILLE SURFACE-MOUNT: BORDER TYPE F LAY-IN: BORDER TYPE TB W/24x24 FACE

NOTES:  
 1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.  
 2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24x24 LAY-IN GRID SPACE IS NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN, AND SHALL BE SURFACE-MOUNTED IN A CEILING TILE. SECURE EACH SUCH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS ON TOP SIDE OF TILE, SO THAT TILE DOES NOT SAG OR CRACK.  
 3. BRANCH DUCTWORK SHALL BE RAN FULL SIZE OF DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED.  
 4. DIFFUSER/GRILLE SHALL BE PAINTED TO MATCH CEILING COLOR. REFER TO ARCHITECTURAL & INTERIOR DOCUMENTS FOR CEILING COLOR.

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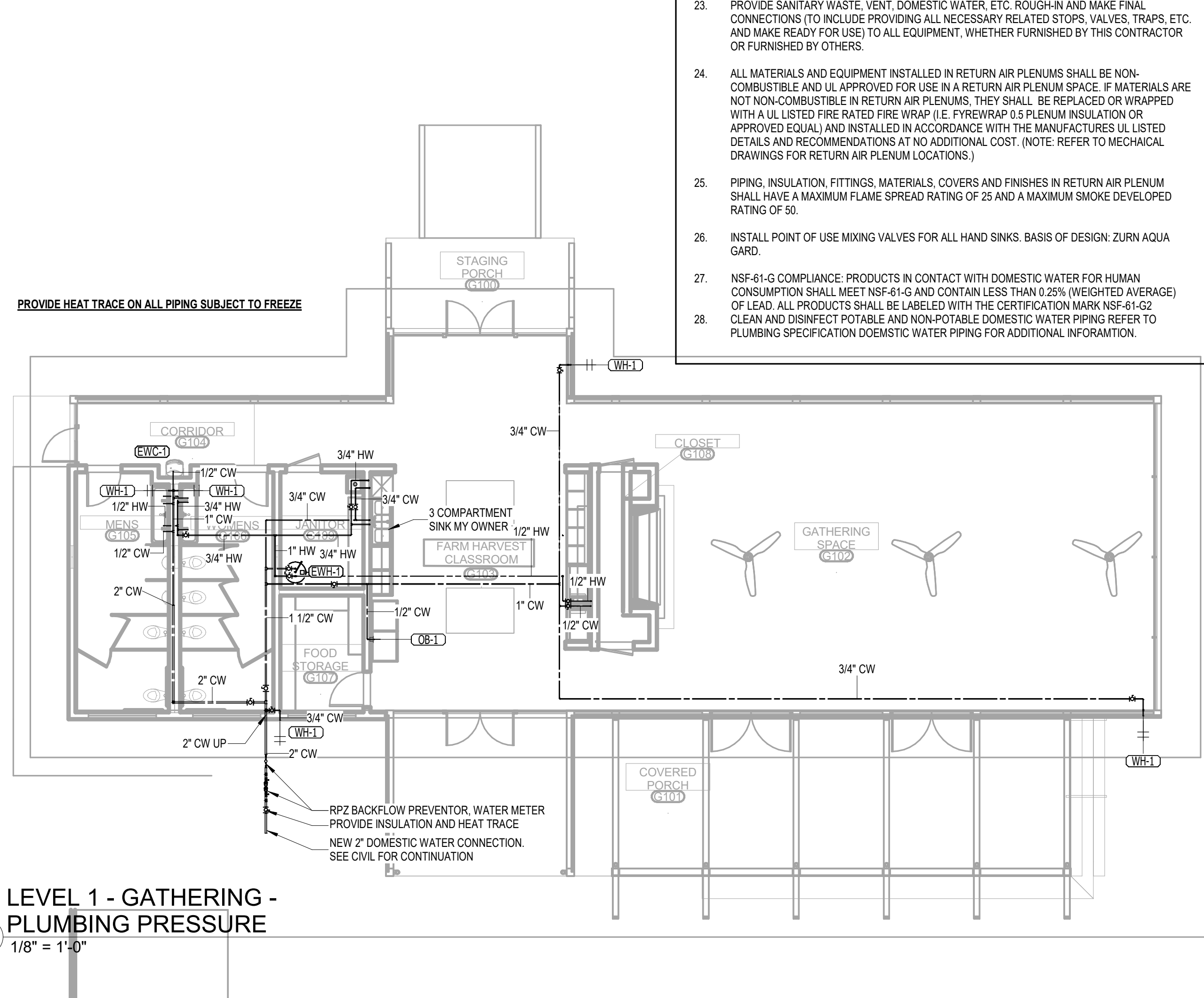
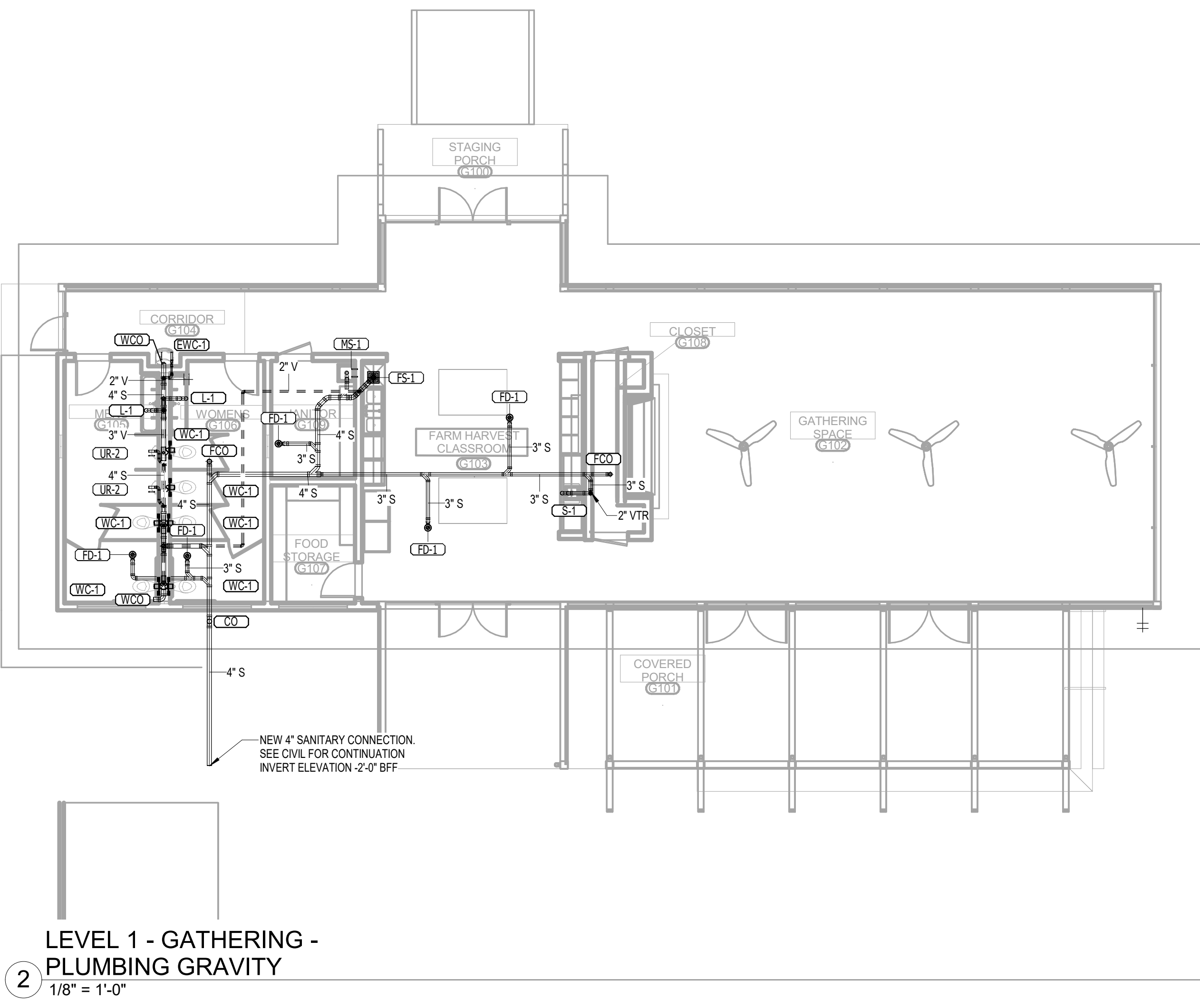
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DATE	MARCH 24, 2023
SHEET	MECHANICAL LEGEND AND SHEET INDEX
SHEET	MG001





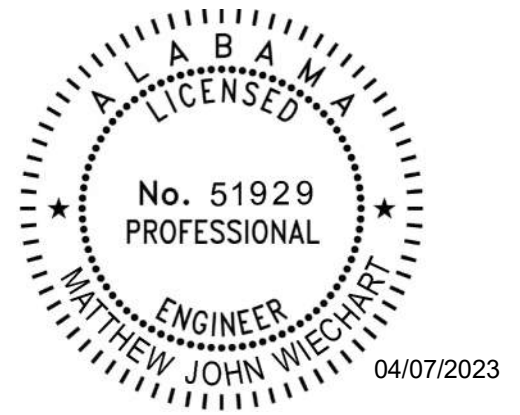
PLUMBING SYMBOLS		PLUMBING ABBREVIATIONS		PLUMBING GENERAL NOTES	
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION		
	- CONDENSATE DRAIN PIPING	CA	- COMPRESSED AIR	1.	REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
	- DOMESTIC COLD WATER PIPING	AFF	- ABOVE FINISH FLOOR	2.	THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
	- DOMESTIC HOT WATER PIPING	AW	- ACID WASTE	3.	UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
	- DOMESTIC HOT WATER RETURN PIPING	AV	- ACID VENT	4.	FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
	- SANITARY WASTE PIPING	CB	- CATCH BASIN	5.	NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
	- VENT PIPING	CD	- CONDENSATE DRAIN	6.	PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
	- STORM DRAIN PIPING	CFH	- CUBIC FEET PER HOUR	7.	PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
	- OVERFLOW STORM DRAIN PIPING	CO	- CLEANOUT	8.	CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
	- FUEL GAS PIPING	CONT	- CONTINUATION	9.	PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
	- HOSE BIBB OR WALL HYDRANT	CW	- DOMESTIC COLD WATER	10.	SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
	- CLEANOUT PLUG	DI	- DEIONIZED WATER	11.	FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
	- WALL CLEANOUT	DN	- DOWN	12.	WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
	- FLOOR CLEANOUT / EXTERIOR CLEANOUT	DS	- DOWNSPOUT	13.	PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
	- FLOOR DRAIN	DWG	- DRAWING	14.	SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
	- FLOOR SINK	EXIST	- EXISTING	15.	PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
	- DECK DRAIN	F	- DEGREE FAHRENHEIT	16.	PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
	- SHUT-OFF VALVE	FCO	- FLOOR CLEANOUT	17.	ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
	- BALL VALVE	FD	- FLOOR DRAIN	18.	MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
	- CALIBRATED BALANCING VALVE	FOF	- FUEL OIL FILL	19.	PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
	- CHECK VALVE (SWING)	FOG	- FUEL OIL GAGE	20.	COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
	- PRESSURE REDUCING VALVE	FOR	- FUEL OIL RETURN	21.	COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
	- DETAIL REFERENCE	FOS	- FUEL OIL SUPPLY	22.	ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
	- PIPE TAG	FOV	- FUEL OIL VENT	23.	PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
	- REVISION REFERENCE	FS	- FLOOR SINK	24.	ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
		FSE#	- FOODSERVICE EQUIPMENT NUMBER	25.	PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
		G	- GAS	26.	INSTALL POINT OF USE MIXING VALVES FOR ALL HAND SINKS. BASIS OF DESIGN: ZURN AQUA GARD.
		GPH	- GALLONS PER HOUR	27.	NSF-61-G COMPLIANCE: PRODUCTS IN CONTACT WITH DOMESTIC WATER FOR HUMAN CONSUMPTION SHALL MEET NSF-61-G AND CONTAIN LESS THAN 0.25% (WEIGHT AVERAGE) OF LEAD. ALL PRODUCTS SHALL BE LABELED WITH THE CERTIFICATION MARK NSF-61-G2 CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING REFER TO PLUMBING SPECIFICATION DOMESTIC WATER PIPING FOR ADDITIONAL INFORMATION.
		GPM	- GALLONS PER MINUTE	28.	
		GR	- KITCHEN WASTE (GREASE)		
		HB	- HOSE BIBB		
		HD	- HUB DRAIN		
		HW	- DOMESTIC HOT WATER		
		HWR	- DOMESTIC HOT WATER RECIRCULATING		
		IE	- INVERT ELEVATION		
		IW	- INDIRECT WASTE		
		KW	- KILOWATT		
		LBS	- POUNDS		
		MH	- MANHOLE		
		NC	- NORMALLY CLOSED		
		NIC	- NOT IN CONTRACT		
		NO	- NORMALLY OPEN		
		NP	- NON-POTABLE WATER		
		NTS	- NOT TO SCALE		
		OD	- OUTSIDE DIAMETER		
		PRV	- PRESSURE REDUCING VALVE		
		PSI	- POUNDS PER SQUARE INCH		
		PVC	- POLYVINYL CHLORIDE PIPE		
		RD	- ROOF DRAIN		
		RRW	- RECYCLED RAIN WATER		
		RPPB	- REDUCED PRESSURE BACKFLOW PREVENTOR		
		SAN	- SANITARY		
		SD	- STORM DRAIN		
		SF	- SQUARE FEET		
		SH	- SHEET		
		ST	- STORM		
		STO	- OVERFLOW STORM DRAIN		
		SW	- SOFT COLD WATER		
		V	- VENT		
		VAC	- VACUUM		
		VC	- VACUUM CLEANING		
		VTR	- VENT THRU ROOF		
		WCO	- WALL CLEANOUT		
		WTR	- WATER		

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

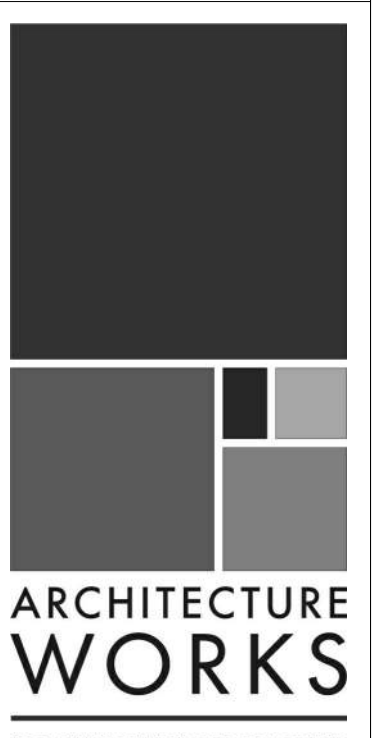


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DATE	
NO.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX
SHEET	PG001





# ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS		FIRE ALARM / DETECTION SYSTEM		ABBREVIATIONS		ABBREVIATIONS (CONT.)	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>DEVICE ABBREVIATION TAGS:</b>							
TR	TAMPER RESISTANT		MANHOLE		MANUAL PULL STATION	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT		PULLBOX		CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED	IES	ILLUMINATING ENGINEERING SOCIETY
U	DUPLEX RECEPTACLE WITH (2) USB PORTS		HANDLEHOLE		INSULATED POWER CABLE ENGINEERS ASSOCIATION	IMC	INTERMEDIATE METAL CONDUIT
WP	WEATHERPROOF		TRANSFORMER		E = ELEVATOR WITH RECALL CONTACTS	IN	INCHES
Sa	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)		AUTOMATIC TRANSFER SWITCH		I = IONIZATION	IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
S3	THREE-WAY SWITCH		NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NF = NON-FUSED		DUCT SMOKE DETECTOR	JB OR J-BOX	JUNCTION BOX
S4	FOUR-WAY SWITCH		NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE		R = RETURN S = SUPPLY	KCML	ONE THOUSAND CIRCULAR MILS
SK	SINGLE POLE KEY SWITCH		NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT		HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED	KV	KILOVOLT
ST	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH		NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED AR = AMPERE RATING OF FUSE 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE		SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY	KVA	KILOVOLT AMPERES
SOSab	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY		# OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED		BEAM SMOKE DETECTOR	KW	KILOWATT
SOS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH		COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE		BR OR T = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER	KWH	KILOWATT HOURS
SOS	WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH		SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL		HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED	LBS	POUNDS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED		SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY	LED	LIGHT EMITTING DIODE
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED		DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED	LP	LIGHTNING PROTECTION
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED		COMBINATION SPEAKER/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING	LT	LIGHT
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED		HORN ONLY, WALL MOUNTED	LTG	LIGHTING
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT CONCEALED ABOVE CEILING OR IN WAL		STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT EXPOSED		COMBINATION SPEAKER/STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING	LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR		SPEAKER ONLY, WALL MOUNTED	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT HOMERUN TO ELECTRICAL PANEL		STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED	LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT TURNING UP		FIREMAN'S PHONE JACK	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT TURNING DOWN		SPRINKLER TAMPER SWITCH CONNECTION	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT STUBBED OUT OR UP		SPRINKLER WATERFLOW SWITCH CONNECTION	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT CONTINUED		PRESSURE SWITCH CONNECTION	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		FLEXIBLE CONDUIT		ELECTROMAGNETIC DOOR HOLD OPEN DEVICE	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		CONDUIT SEAL-OFF FITTING		FIRE ALARM CONTROL PANEL	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		GROUND OR GROUND ROD AS NOTED		FIRE ALARM TERMINAL CABINET	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		EXISTING TO BE REMOVED (HEAVY, DASHED LINE)		FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		EXISTING TO REMAIN (LIGHT, SOLID LINE)		VOICE EVACUATION PANEL	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		NEW (HEAVY, SOLID LINE)		MASS NOTIFICATION SYSTEM PANEL	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
SOS	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH		NEW (HEAVY, SOLID LINE)		MASS NOTIFICATION SYSTEM PANEL	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
		<b>LIGHTING</b>					
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		FIRE ALARM CONTROL PANEL		INTERNATIONAL ENERGY CONSERVATION CODE
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		FIRE ALARM TERMINAL CABINET		ILLUMINATING ENGINEERING SOCIETY
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED		INTERMEDIATE METAL CONDUIT
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		VOICE EVACUATION PANEL		INCHES
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		INSULATED POWER CABLE ENGINEERS ASSOCIATION
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		JUNCTION BOX
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		ONE THOUSAND CIRCULAR MILS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		KILOVOLT
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		KILOVOLT AMPERES
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		KILOWATT
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		KILOWATT HOURS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		POUNDS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LIGHT EMITTING DIODE
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LIGHTNING PROTECTION
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LIGHT
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LIGHTING
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
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	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
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	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
	LED OR FLUORESCENT STRIP FIXTURE		LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING		MASS NOTIFICATION SYSTEM PANEL		LONG TIME, SHORT TIME, INSTANTANEOUS

## ELECTRICAL GENERAL NOTES

- GENERAL:**
- THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERMS "CONTRACT" HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
  - PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
  - INCLUDE ALL COSTS FOR EXCAVATION, SWR CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
  - INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
  - PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.
  - LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS IN ADVANCE PRIOR TO DIGGING, AT 1-800-432-4770.
  - INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH FLORIDA STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
  - VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E. COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
  - VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROVED TRADES APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
  - THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
  - ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
  - WHERE STRUCTURAL WALLS ARE OF TILT-UP CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENING LOCATIONS FOR ALL ELECTRICAL CONDUITS INSTALLED WITHIN TILT-UP WALLS DURING THE SHOP DRAWING REVIEW PROCESS OF THE TILT-UP WALLS. PRIOR TO MANUFACTURE OF THE TILT-UP WALLS.
  - LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
  - COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNERS VENDOR DRAWINGS SO THAT A 120V 20A RECEPTACLE IS LOCATED ADJACENT TO EACH VOICEDATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND KITCHEN EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
  - WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNERS DESIGN STANDARDS, WHEREIN THE CODE OR OWNERS DESIGN STANDARDS SHALL GOVERN.
  - CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTAL BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
  - COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
  - ANY TEMPORARY INTERRUPTION ON POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
  - COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, ENGINEERING AND IMPACT FEES.
  - CONDUIT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. OCCURRING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE, ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER. AT NO ADDITIONAL COST, REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
  - COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUIT BOXES. REVIEW ALL CONTACT DRAWINGS TO CERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADES WORK.
- ELECTRICAL EQUIPMENT:**
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, UNLESS INDICATED ON THE CONTRACT DRAWINGS OR NOT.
  - TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCS, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, WIREWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
  - WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
  - THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6" ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
  - PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
  - PROVIDE AFCI PROTECTION TO COMPLY WITH NEC IN ALL GUEST ROOMS AND GUEST SUITES WITH PROVISIONS FOR COOKING, IN ALL DWELLING UNITS, APARTMENTS AND CONDOMINIUMS.
  - ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED, PANEL BOX, COVER & DOOR WHERE SURFACE MOUNTED).
  - PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXTING THE BUILDING. PROVIDE MINIMUM 30A/50P BREAKER IN PANELBOARDS AND MAIN SERVICE PANEL OR SWITCHBOARD, UNLESS OTHERWISE NOTED, OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE.
  - CONTRACTOR IS TO SUBMIT FOR APPROVAL TO THE ENGINEER OF RECORD FINAL COORDINATED SETTINGS REQUIRED FOR MAIN CIRCUIT BREAKER AND ALL DOWNSTREAM ADJUSTABLE OVERCURRENT PROTECTIVE DEVICES, BASED ON SELECTED EQUIPMENT MANUFACTURER.
- IDENTIFICATION:**
- PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTING PANELBOARDS AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS-BUILT CONDITIONS FOR ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FED FROM. ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE ROOM NUMBER(S) FOR EACH LOAD SERVICE (I.E., RECEPTACLES-RMS 501 303), ROOM NUMBERS SHALL BE BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATE EXACT ROOM NUMBERS WITH A/E AND OWNER PRIOR TO COMPLETION OF PANEL DIRECTORIES.
  - PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR, DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC., AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.
  - PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD SERVICE.
  - ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.
  - PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
  - PROVIDE NEATLY HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION BOXES, PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) CONTAINED WITHIN.
  - PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
  - PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROLS CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE ENERGIZED. LOCK-OUT TAG-OUT REQUIRED".
  - PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENTS, AND OWNERS PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.
- ELECTRICAL DEVICES, OUTLET BOXES, JUNCTION BOXES:**
- LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
  - RECEPTACLES, VOICEDATA OUTLETS, WALL FURNITURE FEEDS SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED.
  - WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE-RATED AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
    - ALL ELECTRICAL BOXES SHALL BE METALLIC.
    - BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
    - BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
    - ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
    - PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATINGS SHALL BE MAINTAINED.
    - THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
    - OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
    - OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
    - THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 18 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
    - IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN WALLS, CEILING OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILING, OR FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILING, AND NOT SURFACE MOUNTED, UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS A/E GRANTS WRITTEN PERMISSION.
    - ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHETHER INDICATED ON THE CONTRACT DOCUMENTS OR NOT.
    - ALL DEVICES SHALL BE INSTALLED NEATLY, UNLESS OTHERWISE NOTED.
    - ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
    - WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INSTALL SO THAT THEY ARE SEPARATED BY AT LEAST 12".
    - RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS SHALL BE LOCATED DIRECTLY BEHIND ELECTRIC WATER COOLER, CONCEALED FROM DIRECT VIEW. RECEPTACLES SHALL BE GFCI TYPE. JUNCTION BOXES FOR HARD-WIRED CONNECTION TO EWC SHALL BE CIRCUITED TO GFCI PROTECTED CIRCUIT BREAKER IN PANELBOARD.
    - ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO MOISTURE (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. ALL EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS NOTED OTHERWISE.
    - ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS OR WITHIN 6' OF THE INSIDE FACE OF A SINK, IN MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATOR SUMP PUMP, AND ELEVATOR EQUIPMENT ROOMS SHALL BE GFCI TYPE OR GFCI PROTECTED.
    - ALL RECEPTACLES LOCATED IN DAY CARES, PEDIATRIC CLINICS OR AREAS, AND OTHER AREAS AS REQUIRED BY NEC AND STATE OF FLORIDA REQUIREMENTS FOR EDUCATIONAL FACILITIES SHALL BE TAMPERPROOF.
- RACEWAYS:**
- FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN PERMISSION.
  - ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFIED NOTED OTHERWISE.
  - THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION.
  - NO PVC SMOKE DUCT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS OTHERWISE NOTED.
  - ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT CONDUIT ENDS.
  - ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E., EXPOSED CEILING, BUILDING EXTERIOR WALL RUNS), CONCEAL ALL CONDUITS ABOVE CEILING OR IN WALLS AND MILLWORK, WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED, NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO ROUTING.
  - SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL PENETRATED.
- PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALL, CEILING AND ROOFS WHERE REQUIRED. COORDINATE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS ARE TO BE SEALED WATER/TIGHT.
  - ALL RACEWAYS THAT TURN UP INTO THE SLAB OR ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BUTYMASTIC COATING FOR AT LEAST THE FINAL 18" IN LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED.
  - PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.
  - IT IS THE INTENT THAT ALL RACEWAYS BE CONCEALED IN WALLS, ABOVE CEILING, IN SLAB, OR BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN PERMISSION, WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
  - PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC.
  - PROVIDE POLYOLEFIN JET-LINE #222 (NYLON FULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION.
  - MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
  - SET SCREW FITTINGS SHALL BE USED FOR EMT CONDUIT.
- CONDUCTORS:**
- ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG. EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120V/208V CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 277/480 VOLT CIRCUITS. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR LESS.
  - BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS.
- | 120V (BASED ON 150W LOAD)   | MIN. CONDUCTOR SIZE INCREASE FOR VOLTAGE DROP |
|---|---|
| 0 FT. - 70 FT   | #12 AWG                                       |
| 71 FT. - 115 FT   | #10 AWG                                       |
| 116 FT. - 180 FT  | #8 AWG  |
| 181 FEET AND LONGER. SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL. |   |
| 277V (BASED ON 415W LOAD)   | MIN. CONDUCTOR SIZE INCREASE FOR VOLTAGE DROP |
| 0 FT. - 140 FT  | #12 AWG                                       |
| 141 FT. - 220 FT  | #10 AWG                                       |
| 221 FT. - 350 FT  | #8 AWG  |
- ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATING LISTED IN NEC.
  - ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSSED SO THAT EACH CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL.
  - ALL CONDUCTORS SHALL BE COPPER, THINWTHWN, AND SOLID FOR #10 AWG AND SMALLER, AND STRANDED FOR #8 AWG AND LARGER.
  - THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED. ALL MATERIALS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE OR UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION.
  - ENSURE ALL SHUNT TRIP RELAYS ARE CONTINUOUS DUTY RATED OR CONTAIN A SAFETY MECHANISM THAT ENSURES RELAYS GET DE-ENERGIZED AFTER ACTUATING TO PREVENT OVERHEATING.
- GROUNDING:**
- FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
  - ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND.
  - WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
  - PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.
- LIGHTING:**
- LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.
  - COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPSOBOARD CEILING WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION, WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS. PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.
  - VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES.
  - LIGHT FIXTURES RECESSED IN FIRE-RATED CEILING SHALL BE PROVIDED WITH APPROVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
  - MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING INSTALLED.
  - ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED.
  - ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L), EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING CONTROL.
  - PROVIDE UL WET LABEL, OR IP67 RATED LIGHT FIXTURES FOR ALL FIXTURES LOCATED OUTSIDE OR IN PARKING GARAGES, IN SHOWERS, OR OPEN STRUCTURES.
  - PROVIDE 0-DEGREE BALLASTS FOR EXTERIOR FLUORESCENT OR HID LIGHT FIXTURES.
  - PROVIDE FUSING FOR ALL EXTERIOR LIGHT FIXTURES, OR FIXTURES IN PARKING GARAGES OR OPEN STRUCTURES.
  - PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
  - COORDINATE EXACT FOUNDATION AND/OR COMPACTING REQUIREMENTS FOR ALL POLE MOUNTED LIGHT FIXTURES WITH MANUFACTURER'S AND/OR INSTALLERS STRUCTURAL ENGINEER. POLE BASES SHALL MEET OR EXCEED ALL WIND LOAD RATINGS, GUST FACTORS, IMPORTANCE FACTORS, ETC. REQUIRED BY NATIONAL AND/OR LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE STRUCTURAL DRAWINGS FOR ALL POLE BASES, POLE, ASSEMBLY AND OVERTURN CALCULATIONS REQUIRED IN THIS PROJECT, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.
  - SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE.
  - SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
  - ALL SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 36" AWAY FROM ANY SUPPLY OR RETURN AIR VENTS OR DIFFUSERS.
  - DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.

## FIRE ALARM SYSTEM NOTES

- ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
- ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE PLPL PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM 19 STRANDS.
- LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.
- SURVIVABILITY: A 1-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.
- MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR.
- PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM LAST DEVICE TO FACP UNLESS OTHERWISE NOTED.
- PROVIDE FIRE ALARM RELAY AND DUCT DETECTOR CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.
- FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM LIFE SAFETY BRANCH WHERE AVAILABLE.
- SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL, TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
- ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".
- A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION, FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE SIGNAL.
- A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL.
- MINIMUM CANDELA RATING OF STROBES IS 75', 110" ADJACENT TO DEVICE INDICATES 110 CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.
- ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
- ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS, WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.
- STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.
- SPEAKER/STROBES, HEAT DETECTORS OR MANUAL PULL STATIONS INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES.
- SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE.
- SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
- ALL SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 36" AWAY FROM ANY SUPPLY OR RETURN AIR VENTS OR DIFFUSERS.
- DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.

**WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED**

## APPLICABLE CODES

- ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN:
- LIFE SAFETY CODE, NFPA 101.
  - UNDERWRITERS LABORATORIES, INC. (UL) PUBLICATIONS.
  - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
  - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
  - NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION.
  - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
  - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
  - REQUIREMENTS OF LOCAL POWER COMPANY.
  - THE AMERICANS WITH DISABILITIES ACT (ADA).
  - OWNERS PUBLISHED DESIGN STANDARDS.
  - INTERNATIONAL BUILDING CODE.**
  - ICC 2021**
  - ASHRAE 90.1 2013**



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GULF SHORES, ALABAMA

No.	Date	Revision	Comments
1	08/07/2023		CITY COMMENTS
JOB			
<b>19-028.000</b>			
PROJECT STATUS			
<b>CONFORMANCE SET</b>			
DATE			
<b>MARCH 24, 2023</b>			
SHEET			
<b>ELECTRICAL GENERAL NOTES</b>			
SHEET			
<b>EG001</b>			









04/07/2023

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**FIRE ALARM SYSTEM SEQUENCE OF OPERATION**

No Scale

**TYPE OF SYSTEM:**  
- FULLY ADDRESSABLE FIRE ALARM SYSTEM AND STANDBY BATTERY MONITORED BY CENTRAL STATION  
- 24 HOURS OF STANDBY, 5 MINUTES OF ALARM USED FOR BATTERY CALCULATIONS  
- VOICE EVACUATION WITH PRE-RECORDED DIGITAL MESSAGE AND MANUAL ANNOUNCEMENT VIA MICROPHONE

**TYPE OF CIRCUITS:**  
- SIGNALING LINE CIRCUIT (SLC) = CLASS B, SURVIVABILITY LEVEL 0  
- NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B, SURVIVABILITY LEVEL 0

**WIRING METHOD:**  
- "FPLR" CABLE IN CONDUIT.  
- WET LOCATION LISTED CABLE FOR UNDERGROUND, SLAB, AND UNCONDITIONED SPACE CONDUIT.

**GENERAL ALARM SEQUENCE:**  
- ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION DEVICES (SPEAKERS AND STROBES) TO ACTIVATE THROUGHOUT THE BUILDINGS. ALL ALARM CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR AND WILL BE TRANSMITTED TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.  
- SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A SUPERVISORY CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.  
- TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A TROUBLE CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY.  
- SPRINKLER FLOW SWITCH : THE FIRE PROTECTION SPRINKLER SYSTEM MAIN FLOW SWITCH SHALL BE CONNECTED AS AN ALARM INITIATING DEVICE AND SHALL BE ANNUNCIATED SEPARATELY. FIRE PROTECTION SPRINKLER SYSTEM ZONE FLOW SWITCHES SHALL BE CONNECTED AS AN AUTOMATIC INITIATING DEVICE AND EACH SWITCH SHALL BE SEPARATELY ANNUNCIATED.  
- SPRINKLER FLOW SWITCH SHALL TRANSMIT A SEPARATE ALARM SIGNAL FROM OTHER ALARM CONDITIONS.  
- SPRINKLER SYSTEM TAMPER SWITCH : TAMPER SWITCHES CONNECTED TO THE VALVES OF THE FIRE PROTECTION SYSTEM SHALL BE ANNUNCIATED AS SUPERVISORY CONDITION.  
- ALL SIGNALS SHALL BE ANNUNCIATED AT THE

**ALARM SILENCE:**  
- AUDIBLE NOTIFICATION DEVICES MAY BE SILENCED.  
- VISUAL DEVICES WILL REMAIN ON UNTIL THE SYSTEM IS RESET.

**INITIATING DEVICE OPERATIONS:**  
- PULL STATIONS WILL CAUSE A GENERAL ALARM.  
- SPRINKLER FLOW SWITCHES WILL CAUSE A GENERAL ALARM.  
- DUCT DETECTORS WILL CAUSE A SUPERVISORY CONDITION.  
- ANY TAMPER SWITCH WILL CAUSE A SUPERVISORY CONDITION.  
- SMOKE/HEAT DETECTORS WILL CAUSE A GENERAL ALARM AFTER AN ALARM VERIFICATION PROCESS.

**AUXILIARY CONTROLS:**  
- AIR HANDLING UNITS CONTROLLED BY THE FIRE ALARM SYSTEM WILL SHUTDOWN THROUGHOUT THE BUILDING ON AN ALARM CONDITION. UPON SILENCING FIRE ALARM SYSTEM HVAC SYSTEM SHALL AUTOMATICALLY RETURN TO NORMAL OPERATION STATUS.

**FIRE ALARM SYSTEM WIRE SCHEDULE**

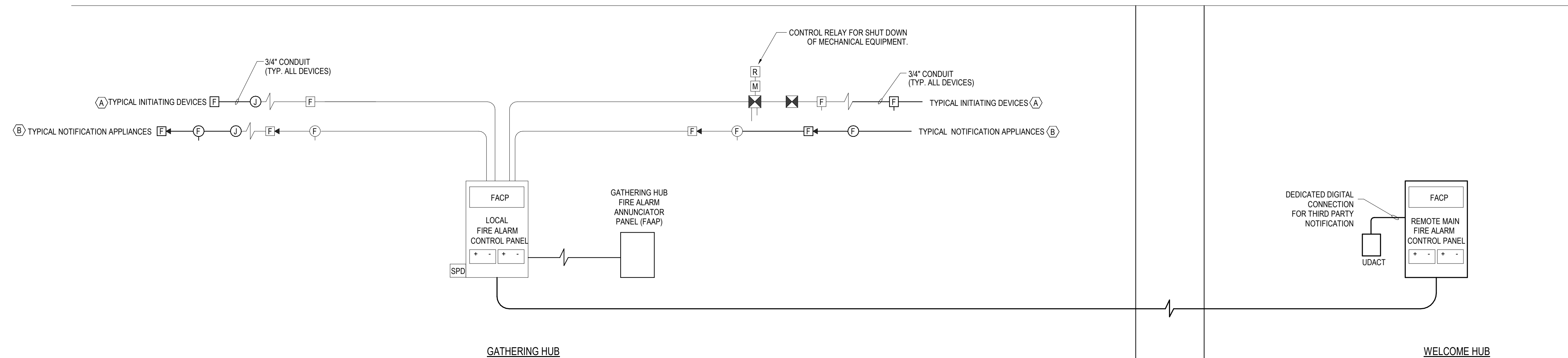
- (A) SIGNALING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE, CLASS B / SURVIVABILITY LEVEL 0
- (B) NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG, SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE, CLASS B / SURVIVABILITY LEVEL 0
- (C) INITIATING DEVICE CIRCUIT (IDC): 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE.
- (D) SIGNALING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE, CLASS A / SURVIVABILITY LEVEL 3 (INTER-BUILDING)

**NOTE:**

- \* FIRE ALARM SYSTEM WIRING SHALL BE POWER LIMITED.
- \* ALL WIRING BELOW GRADE TO BE LISTED FOR WET LOCATIONS.
- \* REFER TO POWER AND SYSTEMS PLANS FOR DEVICE LOCATION AND QUANTITY.
- \* ALL STROBES SHALL BE 75cd MINIMUM UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.

**FIRE ALARM NOTES :**

1. ALL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED.
2. ALL WIRING SHALL CONFORM TO NFPA 72 AND NEC ARTICLE 760 USING FPLR COPPER CABLING IN CONDUIT.
3. COLOR CODING AND PROPER LABELING SHALL APPLY TO ALL SYSTEMS WIRING.
4. ROUTE FIRE ALARM SYSTEM CONDUIT ACCORDING TO FIRE ALARM CONTRACTOR SHOP DRAWINGS. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
5. ALL FIRE ALARM VISUAL SIGNALS IN OPEN AREA SHALL HAVE A THREE PLUS TEMPORAL PATTERN. MULTIPLE STROBES SIMULTANEOUSLY IN VIEW SHALL BE SYNCHRONIZED.
6. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER.
7. MOUNT FIRE ALARM SYSTEM STROBES AND HORN/STROBES AT 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER.
8. SMOKE DETECTOR INSTALLATIONS SHALL BE AS PER NFPA 72.
9. ADDRESSABLE MONITOR MODULES SHALL BE PROVIDED WITHIN 3' OF ANY NON-ADDRESSABLE INITIATING DEVICES.
10. FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERIES.
11. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
12. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT-SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, COMPLETE BATTERY CALCULATIONS, & VOLTAGE DROP CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
13. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM OPERATING AND INSTALLATION MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE FIRE ALARM CONTROL PANEL.
14. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN OFFSITE CENTRAL STATION.
15. PROVIDE A SURGE PROTECTION DEVICE (SPD) AT ALL POINTS WHERE CLASS A WIRING LEAVES AND ENTERS ANY BUILDING.



No.	Date	Revision	Initials

JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	FIRE ALARM RISER, DETAILS, AND NOTES
SHEET	EG400







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### LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	COMMENTS
F	ARCHITECTURAL GRADE CEILING FAN	BY ARCHITECT	SELECTIONS BY ARCHITECT	LED	CEILING FANS TO BE SELECTED BY THE ARCHITECT. LINE-ITEM SHOWN FOR REFERENCE ONLY.
LF1	4' LED TUNABLE WHITE DOWNLIGHT	ALPHABET PORTFOLIO BOLD	NU4-RD-TW-13LM-2765-95-HE45-UNV-MOUNTING-COLOR LD4B15DE010W2N2765 EL4B1020W2N902765 4LBXXX CRF4-NIC-T-U-S-0-TW-F-FINISH-FINISH-11-D	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR. COLOR SELECTIONS & LIGHT COLOR TUNING TO BE SELECTED BY ARCHITECT.
LF2	DECORATIVE LED WALL CYLINDER FIXTURE	BEGA LIGMAN FC LIGHTING	24034 K35 UMV-30002-20W-N-W35 FCC400-11-1MM-UNV-935-10L-FINISH-50-LD	LED	MOUNT FIXTURE 10'-0" ABOVE FINISHED GRADE. FINISH TO BE SELECTED BY ARCHITECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN
LF3	RECESSED "MOVE IT" DECROATIVE LED TRACK LIGHTING	XAL LITELINE	MOVE1.2-RTL-BL-48V-010V-ST-XXFT KL-I-T-XX-C-X-R-BK	LED	DECORATIVE RECESSED TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.
LF4	SURFACE-MOUNT "MOVE IT" DECORATIVE DIRECT/INDIRECT LED TRACK LIGHTING	XAL LITELINE	MOVE1.1-PDT-BL-BW-59K-C90-48V-010V-0500LF-ST-XXFT KL-I-F/S-XX-C-XX-X-BKKL-SPOT-BK	LED	DECORATIVE SURFACE/PENDANT TRACK LIGHTING SYSTEM. COORDINATE WITH ARCHITECT ON LENGTH & SHAPE PRIOR TO ORDERING.
LF5	RECESSED 2' X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-R-D-4-S-935-F-96LG-120-SC-MOUNTING S12ZDR-S350D935-XX4F0-1-UDD-F-W SL2L-L-OP-4FT-FLP-FL-90CRI-35K-1000LMF-MIN1-120	LED	MOUNTING SELECTION TO BE DETERMINED BY CONTRACTOR.
LF6	5 5/8" LED RECESSED DOWNLIGHT	BEGA LIGMAN LIGHTHEADED	24817 35K UMQ-80012-21W-M-W35 2-116-T-04-BR036-35-8014-WET / D4B-FVR-R-T-3-P-VOLT	LED	COLOR SELECTION TO BE BY ARCHITECT.
LF7	DECORATIVE WALL-MOUNTED LED VANITY FIXTURE	BEGA	50144-FINISH	LED	FINAL MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.
LF8	SURFACE/PENDANT-MOUNT 2' X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-SM-D-4-S-935-F-96LG-120-SC-MOUNTING-FE-FINISH S12ZMDP-C360D935-XX-XX4F0-1-UDD-F S2LS-LP-4FT-90CRI-1000LMF-MIN1-120-WHT	LED	COORDINATE SURFACE OR PENDENT MOUNT WITH ARCHITECT. FINISH SELECTION TO BE BY ARCHITECT.
LF9	RECESS-MOUNT, EDGE-LIT, LED EXIT SIGN	DUAL-LITE SURE-LITES BEGHELLI	LECRX-F-FINISH-E EUXTRXX OL2-SALR-1/2-C-CR-FINISH	LED	DIRECTIONAL CHEVRONS, WALL OR CEILING MOUNT, SINGLE OR DOUBLE FACE TO BE COORDINATED AT EACH LOCATION.
LF10	ARCHITECTURAL WALL-MOUNT LED FIXTURE	BEGA LIGMAN SISTEMALUX	33341 35K UGN-30031-2X12W-W35 S.7252WIMOD35K-DF-UNV-FINISH	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
LF11	8" DIA. LED PENDANT MOUNT CYLINDER	BEGA LIGMAN FC LIGHTING	24507 35K LUE-9511-39W-W-W35 FCC800-17-SPMLENGTH-UNV-935-30L-FINISH-40-LD	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
LF13	DECORATIVE LED SITE BOLLARD FIXTURE	LIGMAN FC LIGHTING BEGA	ULI-10021-29W-T4-W35-FINISH-120/277V FCB7890-UNV-42-4K-19L-FINISH 98977 K35 FINISH 79 902	LED	VERIFY FINISH WITH ARCHITECT.
LF14	SECORATIVE LED SITE COLUMN LIGHT FIXTURE	LIGMAN WE-EF LUMINIS	UBE-20011-20W-W35-FINISH-120/277V 645-5421 LQ641-L1L15-R2-L-OP669-120/277-FINISH	LED	VERIFY FINISH WITH ARCHITECT.

Issue	
Revision	
Date	
No.	
JOB	19-028.000
PROJECT STATUS	CONFORMANCE SET
DATE	MARCH 24, 2023
SHEET	LIGHTING FIXTURE SCHEDULE
SHEET	EG402











