

STRUCTURAL GENERAL NOTES

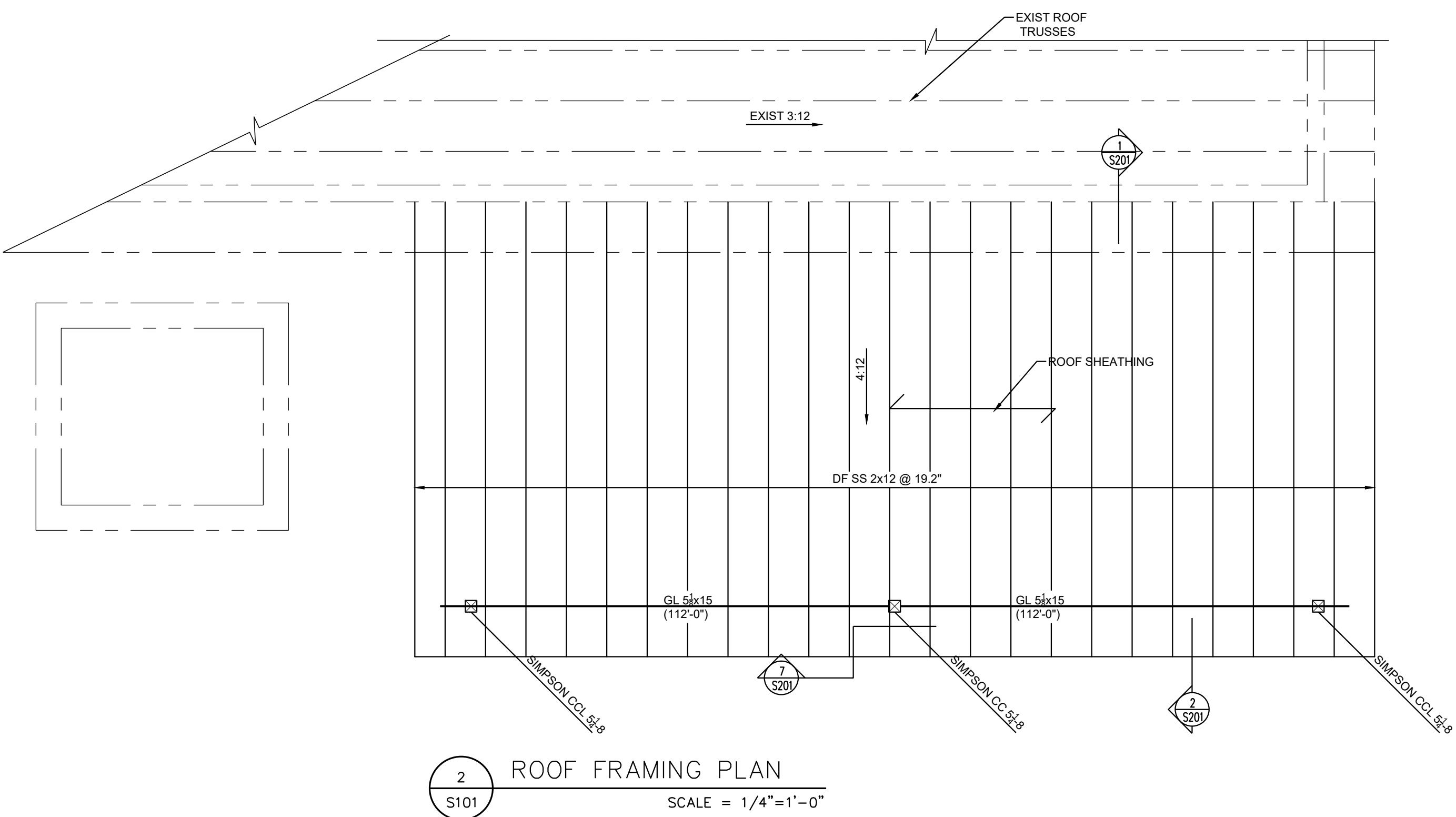
- A. GOVERNING CODES**
- INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION
  - MANUAL FOR TIMBER CONSTRUCTION, AITC 4TH EDITION
  - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-19
  - MANUAL OF STEEL CONSTRUCTION, AISC 2016 15TH EDITION
  - COLD-FORMED STEEL DESIGN MANUAL, AISI CFS D100-13
- B. DESIGN LOADS AND CRITERIA**
- 1) UNIFORM GRAVITY LOADS (PSF):
- | LOCATION | DEAD LOAD | LIVE LOAD                  |
|----------|-----------|----------------------------|
| ROOF     | 12        | 47 (+ UNBALANCED DRIFTING) |
- SNOW CRITERIA: GROUND SNOW LOAD = 56 PSF,  $I_s = 1.1$   
EXPOSURE FACTOR  $C_e = 0.9$ ,  $C_t = 1.1$
- 2) WIND CRITERIA  
3 SEC GUST WIND SPEED = 90 MPH  
OCCUPANCY CATEGORY: II  
 $I_w = 1.0$  / EXPOSURE C  
TOPOGRAPHIC ESCARPMENT  $K_{zt} = 1.28$   
INTERNAL PRESSURE COEFFICIENT:  $0.18 \pm$   
24 PSF MINIMUM FOR EXTERNAL WALL COMPONENTS & CLADDING  
15 PSF MINIMUM NET UPLIFT FOR ROOF JOIST SPANS LESS THAN 13FT,  
16 PSF MINIMUM NET UPLIFT FOR ALL OTHER ROOF JOISTS
- 3) SEISMIC CRITERIA: SITE CLASS C  
 $S_s = 0.15$  /  $S_1 = 0.4$   
 $I = 1.0$  / USE GROUP I  
DESIGN CATEGORY A  
ANALYSIS PROCEDURE: SIMPLIFIED ANALYSIS  
LATERAL FORCE RESISTING SYSTEM:  
STEEL MOMENT FRAMES NOT DETAILED FOR SEISMIC RESISTANCE
- 4) SOIL BEARING PRESSURE: 1,500 PSF ON APPROVED SUBGRADE, SEE SECTION D.2  
5) SOIL FRICTION COEFFICIENT: 0.35  
6) LATERAL SOIL PRESSURE: 35 PCF ACTIVE EQUIVALENT FLUID PRESSURE  
200 PCF PASSIVE EQUIVALENT FLUID PRESSURE  
65 PCF AT-REST EQUIVALENT FLUID PRESSURE  
7) FROST DEPTH: 48 INCHES
- C. MATERIALS**
- 1) CLASS A CONCRETE: PORTLAND CEMENT ASTM C150 TYPE I/II  
(USE UNLESS NOTED OTHERWISE)  
FLY ASH ASTM C618, 10% - 25% BY WEIGHT  
WATER / CEMENT + FLY ASH = 0.45 MAXIMUM  
28 DAY  $f'_c = 4000$  PSI  
AIR CONTENT 4.5% - 7.0%  
AIR CONTENT 3.0% MAX INTERIOR SLABS  
3/4" MAX NORMAL WEIGHT AGGREGATE
- 2) REINFORCING BARS: ASTM A615, GRADE 60, EXCEPT  
ASTM A706, GRADE 60, WHERE INDICATED TO BE WELDED.
- 3) ANCHOR RODS: ASTM F1554 GRADE 36 OR 55 W/ ASTM A563 HEAVY HEX NUTS  
4) GROUT: ASTM C1107, NON-METALLIC NON-SHRINK, 3 DAY  $f'_c = 4000$  PSI  
5) MORTAR: ASTM C270, TYPE S  
6) MASONRY GROUT: ASTM C476 FINE, SLUMP XX"  
7) STRUCTURAL STEEL:  
W SHAPES: ASTM A992,  $F_y = 50$  KSI  
OTHER ROLLED SHAPES: ASTM A36,  $F_y = 36$  KSI  
PLATES: ASTM A36,  $F_y = 36$  KSI  
8) HIGH STRENGTH BOLTS: ASTM A325 TYPE 1 UNCOATED; STEEL TO STEEL CONNECTIONS  
9) BOLTS: ASTM A307; WOOD OR WOOD TO STEEL CONNECTIONS OR ERECTION ONLY  
10) HEADED ANCHOR STUDS: ASTM A108 GRADE 1010 - 1020, TYPE B,  $F_u = 60$  KSI  
11) WELD METAL: F7X-EXXX OR AS APPROVED  
12) ADHESIVE ANCHORS: ASTM A 36 ALL-THREAD ROD W/ CHISEL POINT & INJECTABLE ADHESIVE  
SUCH AS HILTI HIT HY-150 FOR CONCRETE & SOLID MASONRY OR  
DR HIT HY-20 W/ SCREEN TUBES FOR HOLLOW MASONRY OR AS APPROVED.  
ASTM B 633, CLASS SCL, TYPE III (SIMPSON TITEN HD'S OR EQUIV.)
- 13) SCREW ANCHORS:  
14) WOOD FRAMING: 2X4-2X12 DOUG FIR SELECT STRUCTURAL,  
POSTS: DOUG FIR SELECT STRUCTURAL
- 15) WOOD SHEATHING / PANELS: AMERICAN PLYWOOD ASSOCIATION (APA) RATED
- D. FOUNDATIONS**
- FOUNDATIONS HAVE BEEN DESIGNED BASED ON INFORMATION PRESENTED IN THE IBC. FOLLOW RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.
  - PLACE SLAB ON FIRM UNDISTURBED NATIVE MATERIAL, WITH THE TOP 6" SCARIFIED AND COMPACTED, OR ENGINEERED FILL PLACED OVER FIRM UNDISTURBED NATIVE MATERIAL. REMOVE EXISTING TOPSOIL AND ROOF MASS FILL. ENGINEERED FILL SHALL BE MINUS 3" GRADED GRANULAR, APPROVED BY THE GEOTECHNICAL ENGINEER. PLACE ENGINEERED FILL IN UNIFORM LIFTS AND COMPACT TO 98% STANDARD PROCTOR ACCORDING TO ASTM D698. PLAN LIMITS OF ENGINEERED FILL MUST EXTEND AT LEAST 4'-0" BEYOND ALL FOOTING EDGES. IF ENCOUNTERED, EXISTING FILL SHALL BE REMOVED TO AN APPROPRIATE DEPTH AND REPLACED WITH ENGINEERED FILL AS DESCRIBED ABOVE.
  - DO NOT BACKFILL WALLS WITH UNBALANCED SOIL LEVELS UNLESS ADEQUATELY SHORED OR PERMANENT FLOOR PLATES ARE INSTALLED AND CONNECTIONS ARE COMPLETE - THIS DOES NOT INCLUDE RETAINING WALLS. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING DESIGN AND INSTALLATION.
  - BACKFILL AND COMPACT BURIED WALLS OR GRADE BEAMS EVENLY ON EACH SIDE TO AVOID UNBALANCED LOADS. COMPACT LAYERS TO 95% STANDARD PROCTOR ACCORDING TO ASTM D698 EXCEPT 92% UNDER NON-PAVED AREAS.
  - ALWAYS PROVIDE POSITIVE SURFACE WATER DRAINAGE AWAY FROM THE STRUCTURE.
- E. CONCRETE**
- PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 301-02 "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
  - MINIMUM REINFORCING BAR COVER:  
3" AT UNFORMED SURFACES EXPOSED TO EARTH  
2" AT FORMED SURFACES EXPOSED TO EARTH OR WEATHER FOR #6 AND LARGER  
1 1/2" AT FORMED SURFACES EXPOSED TO EARTH OR WEATHER FOR #5 AND SMALLER, NOT EXPOSED TO EARTH OR WEATHER FOR REINFORCEMENT OF BEAMS OR COLUMNS  
1 1/2" AT SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER
  - SPLICE REINFORCING BARS BY LAPPING ACCORDING TO THE SCHEDULE INDICATED. SPLICE W/IF SHEETS BY LAPPING AT LEAST ONE PANEL WIDTH (TWO LONGITUDINAL BARS IN CONTACT) OR 18 INCHES MINIMUM. PLACE MECHANICAL CONNECTORS WHERE SHOWN.
  - ADD #5X6'-0" DIAGONAL EACH FACE AT ALL OPENING CORNERS AND #5X6'-0" DIAGONAL MID-DEPTH AT ALL RE-ENTRANT SLAB CORNERS UNLESS SHOWN OTHERWISE.
  - SECURE ALL REINFORCING INCLUDING W/IF IN POSITION WITH CHAIRS BEFORE CONCRETE PLACEMENT. CONCRETE DOBIES MAY BE USED TO POSITION SLAB ON GRADE REINFORCEMENT.
  - TIE DOWELS IN PLACE BEFORE PLACING CONCRETE. DO NOT STAB OR "WET-SET" DOWELS.
  - INSTALL AND SECURE EMBEDMENTS SUCH AS ANCHOR RODS AND EMBEDMENT PLATES WITHIN SPECIFIED TOLERANCES BEFORE CONCRETE PLACEMENT.
  - MECHANICALLY VIBRATE ALL CONCRETE PLACEMENTS EXCEPT SLABS LESS THAN 5" THICK.
  - PROTECT AND CURE ALL CONCRETE SURFACES. BEGIN CURING WALLS IMMEDIATELY AFTER STRIPPING FORMS AND FLATWORK IMMEDIATELY AFTER FINISHING.
  - CONCRETE SURFACES TO RECEIVE GROUT UNDER COLUMN BASEPLATES MUST BE PREPARED BY LIGHT BUSH HAMMERING (1/4" AMPLITUDE) THE GROUTED AREA AND PRE-SDAKING.
- F. WOOD FRAMING**
- TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL SUPERIMPOSED LOADS INDICATED IN SECTION "B" AND LOADS TRANSFERRED BY FRAMING MEMBERS (IE. OVERFRAMING, STRUCTURAL FASCIA, ...) INDICATED ON ROOF FRAMING PLANS) AND ANY ADDITIONAL LOADS REQUIRED. TRUSS DESIGNS MUST BE STAMPED WITH A SOUTH DAKOTA ENGINEER'S SEAL ON THE DRAWINGS.
  - ENGINEERED WOOD PRODUCTS (WOOD JOISTS & LAMINATED VENEER LUMBER) SHOWN ON THE DRAWINGS ARE THE PRODUCTS OF ROSEBURG FOREST PRODUCTS AND ARE INDICATED BY THE MANUFACTURER'S STANDARD PRODUCT NUMBERS. THE INTENT OF THE DESIGN IS FOR THESE ITEMS TO BE ATTACHED TO EACH OTHER AND TO THE SURROUNDING STRUCTURE TO BEHAVE AS A SYSTEM, WHETHER SHOWN OR NOT, PROVIDE ACCESSORY ITEMS (BLOCKING, CLIPS, STIFFENERS, STRAPS, ETC.) DESIGNED BY THE MANUFACTURER FOR A COMPLETE SYSTEM. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND USE.
  - FRAMING CONNECTORS, ANCHORS, AND HANGERS SHOWN ON THE DRAWINGS ARE THE PRODUCTS OF SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CALIFORNIA AND ARE DESIGNATED BY THE MANUFACTURER'S STANDARD PRODUCT NUMBERS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND USE. PRODUCTS WITH EQUIVALENT CAPACITY AND QUALITY MAY BE SUBSTITUTED AFTER A SUBSTITUTION SUBMITTAL HAS BEEN PROVIDED BY THE GENERAL CONTRACTOR AND FINAL APPROVAL BY THE STRUCTURAL ENGINEER.
  - FLOOR AND ROOF SHEATHING:  
LAY PLYWOOD PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER ALL END JOINTS AND PLACE AS INDICATED IN CASE 1 OF IBC TABLE 2306.3.1
- | LOCATION | MATERIAL                         | NAILING  |
|----------|----------------------------------|--|
| FLOOR    | 3/4" T&G, 40/20 MIN. SPAN RATING | 0.131" DIAMETER AT 6" AT ALL SUPPORTED PANEL EDGES,<br>0.131" DIAM AT 12" AT INTERMEDIATE SUPPORTS,<br>GLUE AND NAIL TO SUPPORTING FRAMING |
| ROOF     | 3/2" 32/16 SPAN RATING           | 0.131" DIAMETER AT 6" AT ALL SUPPORTED PANEL EDGES,<br>0.131" DIAM AT 12" AT INTERMEDIATE SUPPORTS,  |
- ALL LAG BOLTS SHALL HAVE LEAD HOLES DRILLED THE SAME DIAMETER FOR THE SHANK AND 50% OF THE SHANK DIAMETER OF THE THREADED PORTION. LUBRICATE THREADS BEFORE INSTALLATION.
  - STAGGER ALL END JOINTS 32" MINIMUM. FASTEN PANELS TO SUPPORTING FRAMING AND BLOCKING AS INDICATED. (SEE SHEAR WALL SCHEDULE AND FRAMING PLANS FOR CRITICAL NAILING.)
  - NO PANELS LESS THAN 12 INCHES WIDE SHALL BE USED.
  - FASTENERS SHALL NOT BE LESS THAN 3/4" FROM PANEL EDGES.
  - NAIL HEADS SHALL NOT PENETRATE BEYOND A FLUSH CONDITION WITH FACE OF SHEATHING.
  - NAILING REQUIREMENTS NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE IN TABLE 2304.9.1 IN THE IBC.
  - FASTEN BUILT UP OR 2 PLY + MEMBERS TOGETHER PER IBC TABLE OR MANUFACTURER'S RECOMMENDATIONS.

DAYS OF 76  
MAINTENANCE BLDG  
CANOPY ADDITION



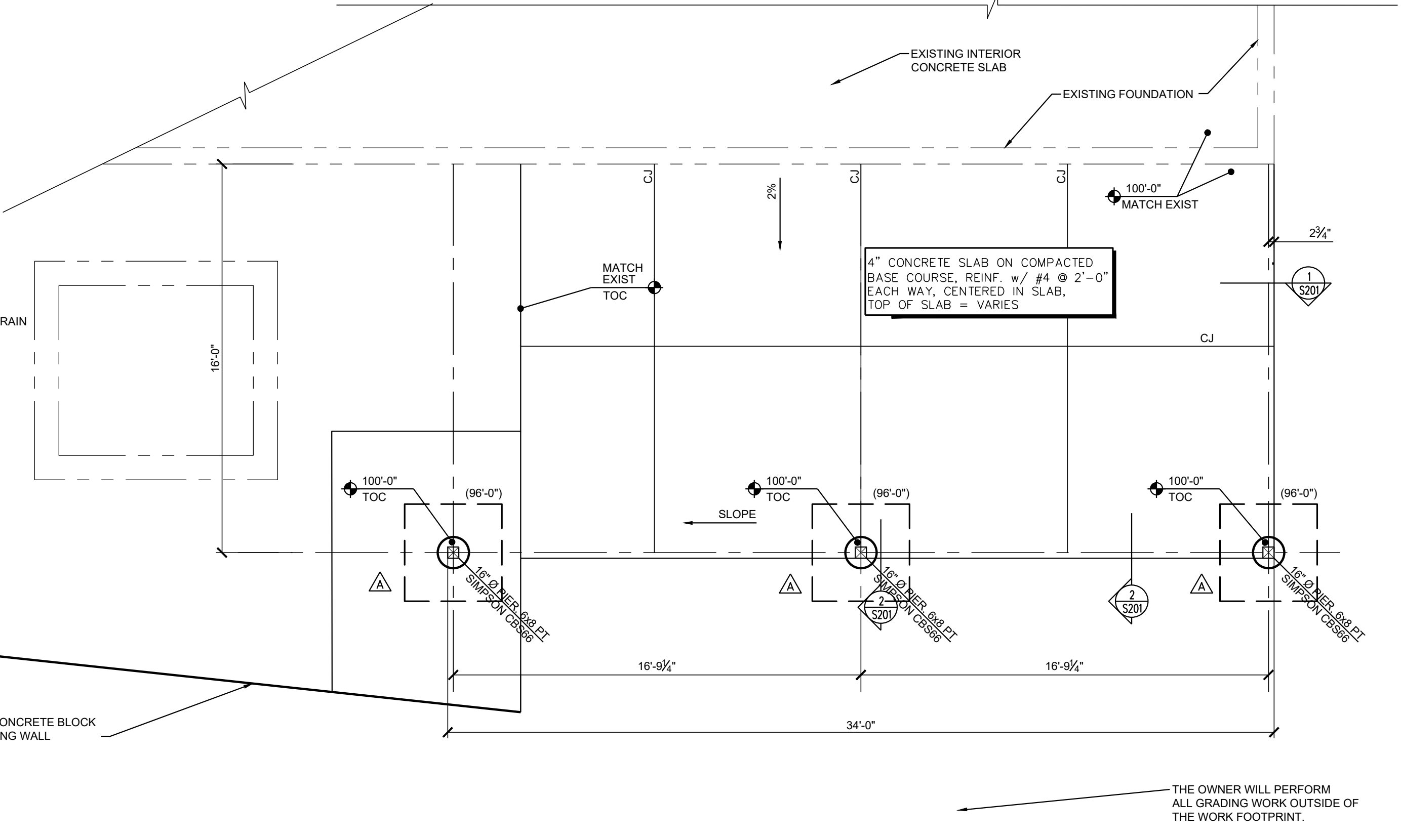
CANOPY ADDITION

- G. SPECIAL INSPECTIONS**
- SPECIAL INSPECTIONS DESCRIBED BELOW WILL BE PERFORMED UNDER SEPARATE CONTRACT BY AGENCIES RETAINED BY THE PROJECT OWNER. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ENGINEER APPRISED OF WORK PROGRESS AS IT PERTAINS TO SPECIAL INSPECTIONS AND ENSURING THAT NO WORK REQUIRING SPECIAL INSPECTIONS IS CONCEALED BEFORE SPECIAL INSPECTIONS OCCUR. SEE PROJECT SPECIFICATIONS FOR OTHER INSPECTIONS AND MATERIALS TESTING REQUIREMENTS.
- | REINFORCING STEEL: | INSPECT BEFORE CONCRETE OR GROUT PLACEMENT. (INCLUDES SLABS-ON-GRADE AND ELEVATED SLABS) |
|--------------------|--|
| ANCHOR RODS:       | INSPECT ALL BEFORE CONCRETE PLACEMENT.   |
| ADHESIVE ANCHORS:  | PERIODIC INSPECTION DURING OR AFTER INSTALLATION.  |
- H. ABBREVIATIONS LIST - (SOME OF THE LISTED ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)**
- |       |                             |
|-------|-----------------------------|
| ANC   | ANCHOR                      |
| ALT   | ALTERNATE                   |
| BRG   | BEARING                     |
| CL    | CENTERLINE                  |
| CLR   | CLEAR                       |
| COL   | COLUMN                      |
| CONN  | CONNECTION / CONNECTOR      |
| CONT  | CONTINUE / CONTINUOUS       |
| PROJ  | PROJECTION                  |
| REINF | REINFORCEMENT / REINFORCING |
| REQ   | REQUIRED                    |
| THK   | THICK/THICKNESS             |
| TYP   | TYPICAL                     |
| UND   | UNLESS NOTED OTHERWISE      |
| VERT  | VERTICAL                    |
- I. MISCELLANEOUS**
- REFERENCE CIVIL DRAWINGS FOR BUILDING LOCATION AND ORIENTATION ON THE SITE. DRAWING ELEVATIONS REFERENCE CIVIL DATUM.
  - DETAIL MARKS ANNOTATED ON PLANS ARE INTENDED TO INDICATE SPECIFIC CONFIGURATIONS AND INFORMATION - FOR PLAN CLARITY, EVERY LOCATION WHERE A SPECIFIC DETAIL MAY APPLY IS NOT ANNOTATED. CONTACT THE ENGINEER IF CLARIFICATION IS NEEDED.
  - COORDINATE OPENINGS AND EMBEDDED ITEMS IN CONCRETE AND MASONRY WORK WITH ALL TRADES.
  - NOTIFY ENGINEER OF ANY DISCREPANCIES DISCOVERED WITH OTHER TRADES.
  - CONSTRUCTION LOADS SHALL NOT BE GREATER THAN THE DESIGN LOADS INDICATED IN SECTION B.1 UNLESS REVIEWED AND APPROVED BY THE ENGINEER.
  - EQUIPMENT OPENINGS INDICATED ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATIONS, DIMENSIONS AND DETAILS WITH EQUIPMENT MANUFACTURERS AND TRADES.
  - TEMPORARILY BRACE THE STRUCTURE TO RESIST ALL LOADS OR COMBINATIONS OF LOADS UNTIL ALL PERMANENT ELEMENTS ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETE AS SHOWN.
  - COST ASSOCIATED WITH STRUCTURAL DRAWING CHANGES RESULTING FROM USE OF ALTERNATES OR SUBSTITUTIONS, INCLUDING MECHANICAL EQUIPMENT, ARE THE CONTRACTOR'S RESPONSIBILITY.



2 ROOF FRAMING PLAN

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

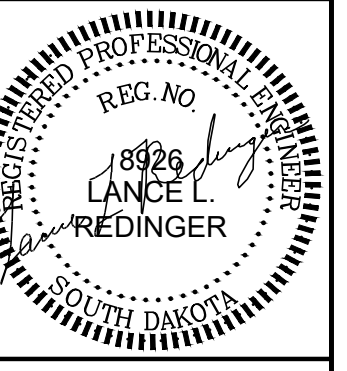


1 FOUNDATION PLAN

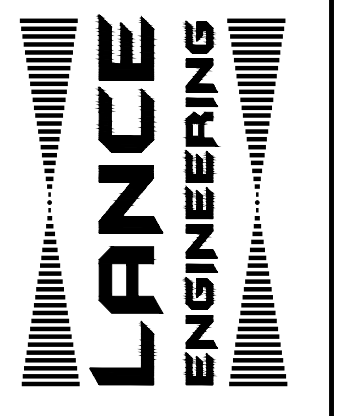
SCALE = 1/4"=1'-0"

| MARK | SIZE (WxDxL)    | REINFORCING            |
|------|-----------------|------------------------|
| △    | 4'-0"x4'-0"x12" | (4) - #5 EA WAY ON BOT |

REVISIONS



DAYS OF 76 CANOPY ADDITION  
FAIRGROUNDS  
DEADWOOD, SOUTH DAKOTA



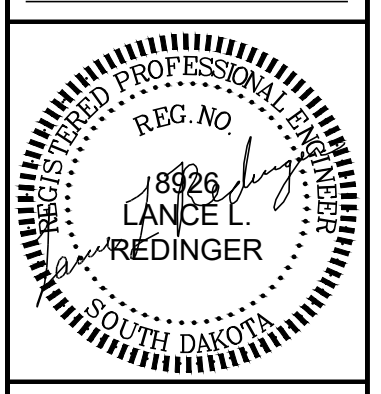
PRECISION DESIGN  
LANCE ENGINEERING  
605-642-3680  
19751 ST. ONGE RD  
ST. ONGE, SD 57779

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LE #: DAYS76  
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SHEET TITLE:  
PLANS & NOTES

SHEET#  
S101



PRECISION DESIGN

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Date 5/7/21

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SHEET TITLE: DETAILS

SHEET#  
S201

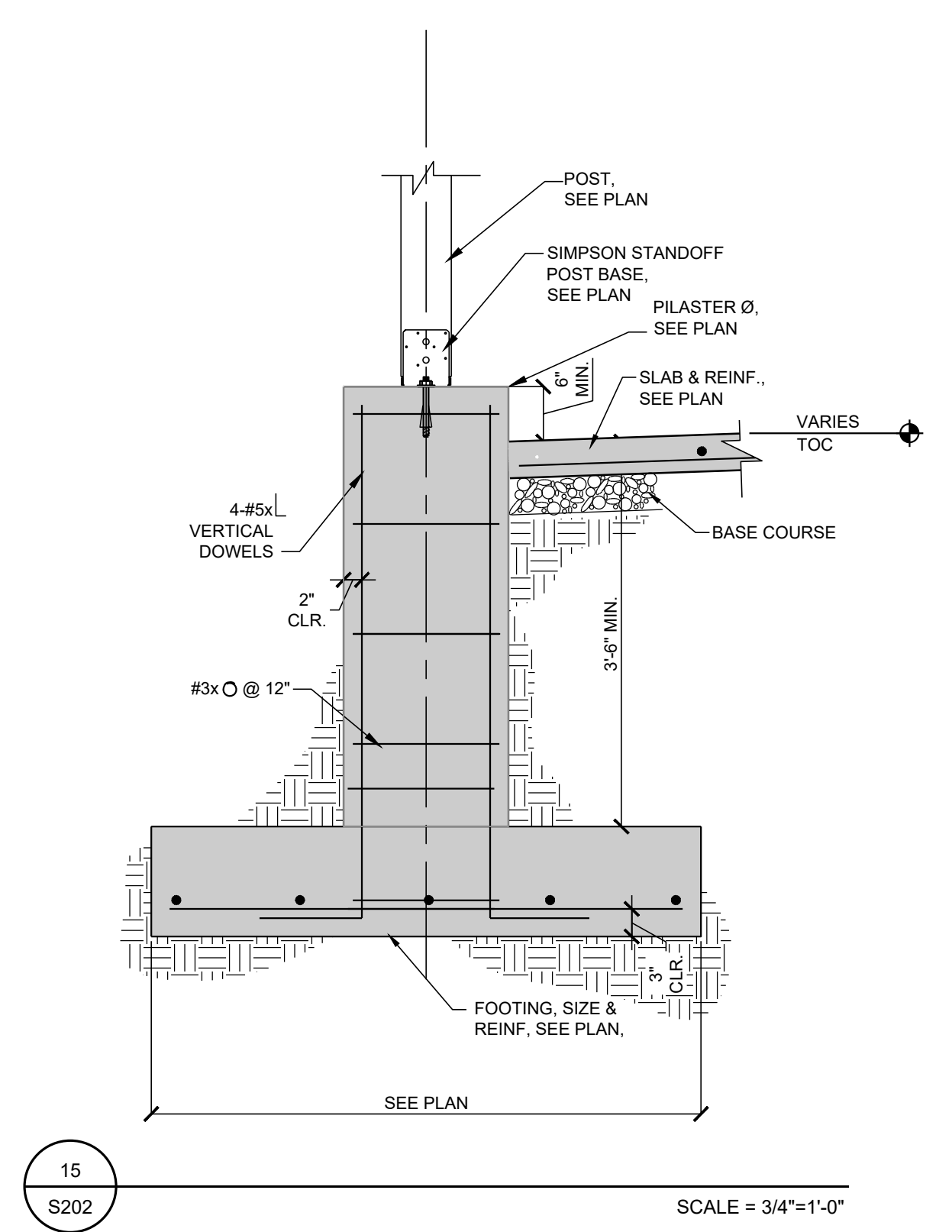
| MINIMUM FASTENERS REQUIREMENTS   |   |
|--|---|
| (UNLESS SHOWN OTHERWISE ON PLANS OR DETAILS) WOOD TO WOOD, WOOD TO LIGHT GAGE  |   |
| CONNECTION   | NAILING   |
| 1. JOIST TO SILL OR GIRDER TOENAIL   | 3-8d  |
| 2. BRIDGING TO JOIST, TOENAIL EACH END   | 2-8d  |
| 3. 1"x6" (25MMx152MM) SUBFLOOR TO EACH JOIST FACE NAIL   | 2-8d  |
| 4. WIDER THAN 1"x6" (25MMx152MM) SUBFLOOR TO EACH JOIST FACE NAIL  | 3-8d  |
| 5. 2" (51MM) SUBFLOOR TO JOIST OR GIRDER BLIND AND FACE NAIL   | 2-16d   |
| 6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL  | 16d @ 16" (406MM) O.C.  |
| SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS  | 3-16d PER 16" (406MM)   |
| 7. TOP PLATE TO STUD, END WALL   | 3-16d   |
| 8. STUD TO SOLE PLATE  | 4-8d TOENAIL OR 2-16d, END WALL   |
| 9. DOUBLE STUDS, FACE NAIL   | 16d @ 24" (610MM) O.C.  |
| 10. DOUBLED TOP PLATES, TYPICAL FACE NAIL  | 16d @ 16" (406MM) O.C. TOP PLATE SPLICE LAP SPLICE 30-16d                         |
| 11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOENAIL  | 10d @ 4" 1 SIDE OR 2-10d @ 8" BOTH SIDES  |
| 12. RIM JOIST TO TOP PLATE, TOENAIL  | 10d @ 4" (152MM) O.C.   |
| 13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL  | WOOD TO WOOD 2-16d, 3-8d  |
| 14. CONTINUOUS HEADER, TWO PLATES  | 16d @ 16" (406MM) O.C. ALONG EACH EDGE  |
| 15. CEILING JOISTS TO PLATE, TOENAIL   | 4-8d  |
| 16. CONTINUOUS HEADER TO STUD, TOENAIL   | 4-8d  |
| 17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL  | 3-16d   |
| 18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL  | 3-16d   |
| 19. TRUSS TO PLATE, TOENAIL  | 4-#10, 4-10d  |
| 20. 1" (25MMx203MM) BRACE TO EACH STUD AND PLATE, FACE NAIL  | 2-8d  |
| 21. 1"x8" (25MMx203MM) SHEATHING OR LESS TO EACH BEARING, FACE NAIL  | 2-8d  |
| 22. WIDER THAN 1"x8" (25MMx203MM) SHEATHING TO EACH BEARING, FACE NAIL   | 3-8d  |
| 23. BUILT-UP CORNER STUDS  | #8 @ 4"   |
| 24. BUILT-UP GIRDER AND BEAMS  | 20d @ 32" (813MM) O.C. AT TOP AND BOTTOM AND STAGGERED AT ENDS AND AT EACH SPLICE |
| 25. 2" (51MM) PLANKS   | 2-16d AT EACH BEARING   |
| 26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD:  |   |
| SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) (1-INCH = 25.4 MM)  |   |
| 1/2" AND LESS  | #8 OR 8d 3  |
| 17/32"-3/4"  | #30 OR 10d 3  |
| 7/8"-1"  | #10 OR 10d 3  |
| 1 1/8"-1 1/4"  | #10 OR 10d OR 8d 3  |
| COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING) (1-INCH = 25.4 MM)  |   |
| 3/4" AND LESS  | 6d 5  |
| 7/8"-1"  | 8d 5  |
| 1 1/8"-1 1/4"  | 10d OR 8d 5   |
| 27. PANEL SIDING (TO FRAMING):   |   |
| 1/2" (13MM) OR LESS  | 6d 6  |
| 5/8" (16MM)  | 8d 6  |
| 28. FIBERBOARD SHEATHING:  |   |
| 1/2" (13MM)  | NO. 11GA 8  |
|  | 16d 4   |
|  | NO. 16GA 9  |
|  | NO. 11GA 8  |
| 25/32" (20MM)  | 8d 4  |
|  | NO. 16GA 9  |
| 29. INTERIOR PANELING  |   |
| 1/4"   | 4d 0  |
| 3/8"   | 6d 11   |
| 1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHEREVER OTHERWISE STATED.<br>2. NAILS SPACED AT 6 INCHES (152MM) ON CENTER AT EDGES, 12 INCHES (305MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152MM) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS. REFER TO SECTION 2315.3 AND 22315.4 NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.<br>3. COMMON OR DEFORMED SHANK.<br>4. COMMON.<br>5. DEFORMED SHANK<br>6. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.<br>7. FASTENERS SPACED 3 INCHES (76MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152MM) ON CENTER AT INTERMEDIATE SUPPORTS<br>8. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" INCH DIAMETER (11MM) HEAD AND 1 1/2 INCH (38MM) LENGTH FOR 1/2 INCH (13MM) SHEATHING AND 1 3/4 INCH (44MM) LENGTH FOR 25/32 INCH (20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3<br>9. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH (11MM) CROWN AND 1 7/8 INCH (29MM) LENGTH FOR 1/2 INCH (13MM) SHEATHING AND 1 1/2 INCH (38MM) LENGTH FOR 25/32 INCH (20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.<br>10. PANEL SUPPORTS AT 16 INCHES (406MM) 20 INCHES (508MM) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES (152MM) ON PANEL EDGES, 12 INCHES (305MM) AT INTERMEDIATE SUPPORTS.<br>11. PANEL SUPPORTS AT 24 INCHES (610MM), CASING OR FINISH NAILS SPACED 6 INCHES (152MM) ON PANEL EDGES, 12 INCHES (305MM) AT INTERMEDIATE SUPPORTS. |   |

| SOLID SAWN LUMBER |      |            |            |
|-------------------|------|------------|------------|
| JOIST             | PLYS | FACE MOUNT | TOP MOUNT  |
| 2x6               | 1    | LUS26      | LB26       |
|                   | 2    | LUS26-2    | HUS26-2TF  |
| 2x8               | 1    | LUS28      | LB28       |
|                   | 2    | LUS28-2    | HUS28-2TF  |
| 2x10              | 1    | LUS28-3    | LB210      |
|                   | 2    | LU210-2    | HUS210-2TF |
| 2x12              | 1    | LU210-3    | HUS210-3TF |
|                   | 2    | LUS210-2   | HUS212-2TS |
| 2x12              | 1    | LUS210-3   | HUS212-3TF |
|                   | 3    | HU212-3    | HU212-3TF  |

| REBAR SIZE | LAP LENGTH 60 KSI REBAR |         | MASONRY |
|------------|-------------------------|---------|---------|
|            | VERT & HORZ             | TOP BAR | ALL     |
| #3         | 1'-2"                   | 1'-6"   |         |
| #4         | 2'-0"                   | 2'-6"   | 2'-0"   |
| #5         | 2'-8"                   | 3'-4"   | 2'-6"   |
| #6         | 3'-2"                   | 4'-2"   | 3'-0"   |
| #7         | 3'-6"                   | 4'-6"   | 3'-6"   |
| #8         | 4'-0"                   | 5'-2"   | 4'-2"   |
| #9         | 5'-0"                   | 6'-4"   |         |
| #10        | 6'-2"                   | 8'-2"   |         |
| #11        | 8'-2"                   | 9'-6"   |         |

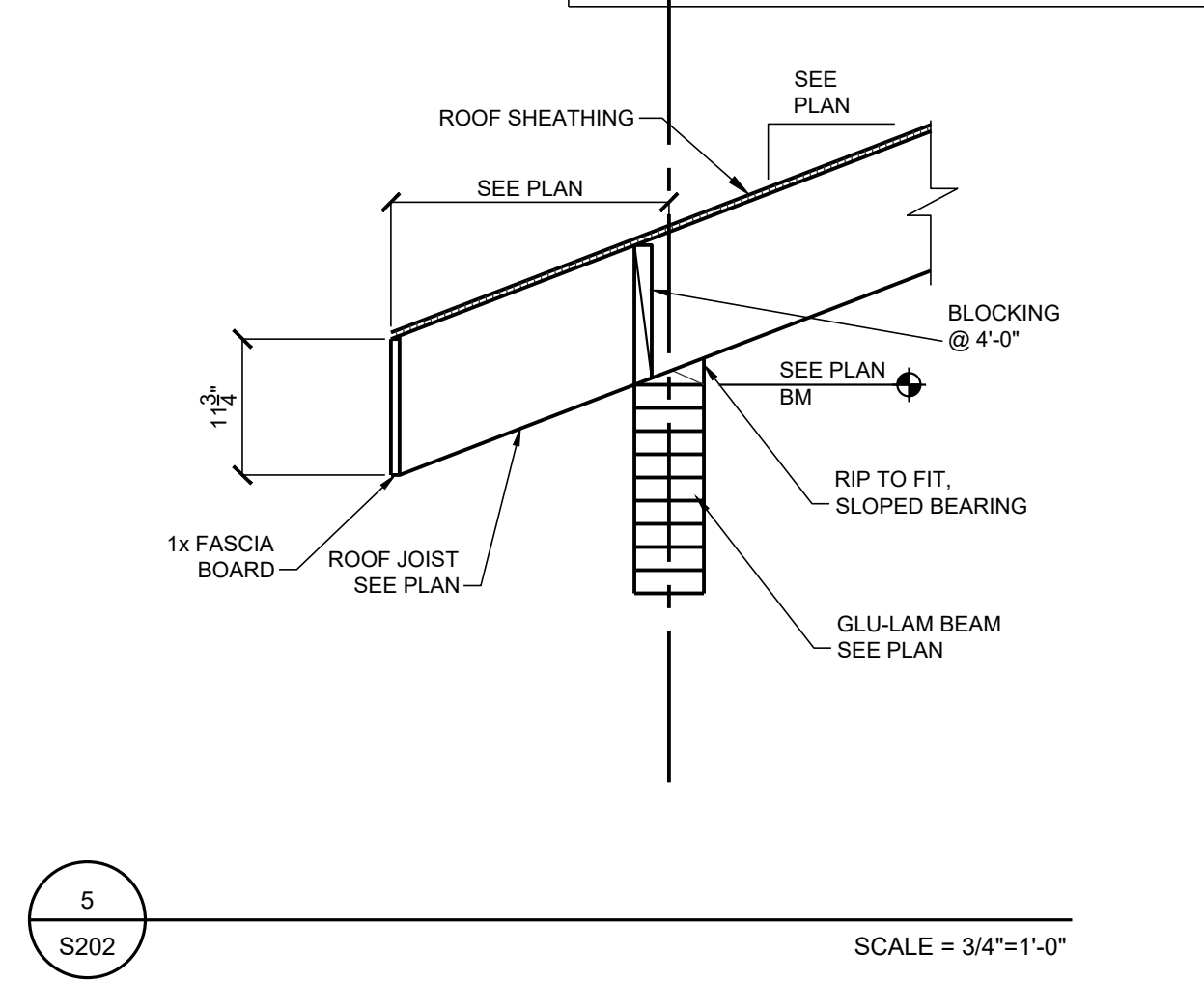
REINFORCING NOTES:  
 1) CONCRETE LAP LENGTHS ARE CLASS 'B' BASED ON FC=4000 PSI WITH COVER REQUIREMENTS INDICATED AND BAR SPACING AT LEAST THREE BAR DIAMETERS.  
 2) TOP BAR LAPS ARE HORIZONTAL LAPS WHERE MORE THAN 12" OF FRESH CONCRETE IS PLACED BELOW THE BARS.  
 3) TOP BAR LAP LENGTHS MAY BE USED AT ALL LOCATIONS IN CONCRETE AT THE CONTRACTOR'S DISCRETION.  
 4) MASONRY LAP LENGTHS ARE BASED ON FM=1500 PSI WITH COVER REQUIREMENTS AND SPACING INDICATED.

REINFORCING LAP SCHEDULE  
 SCALE: NONE

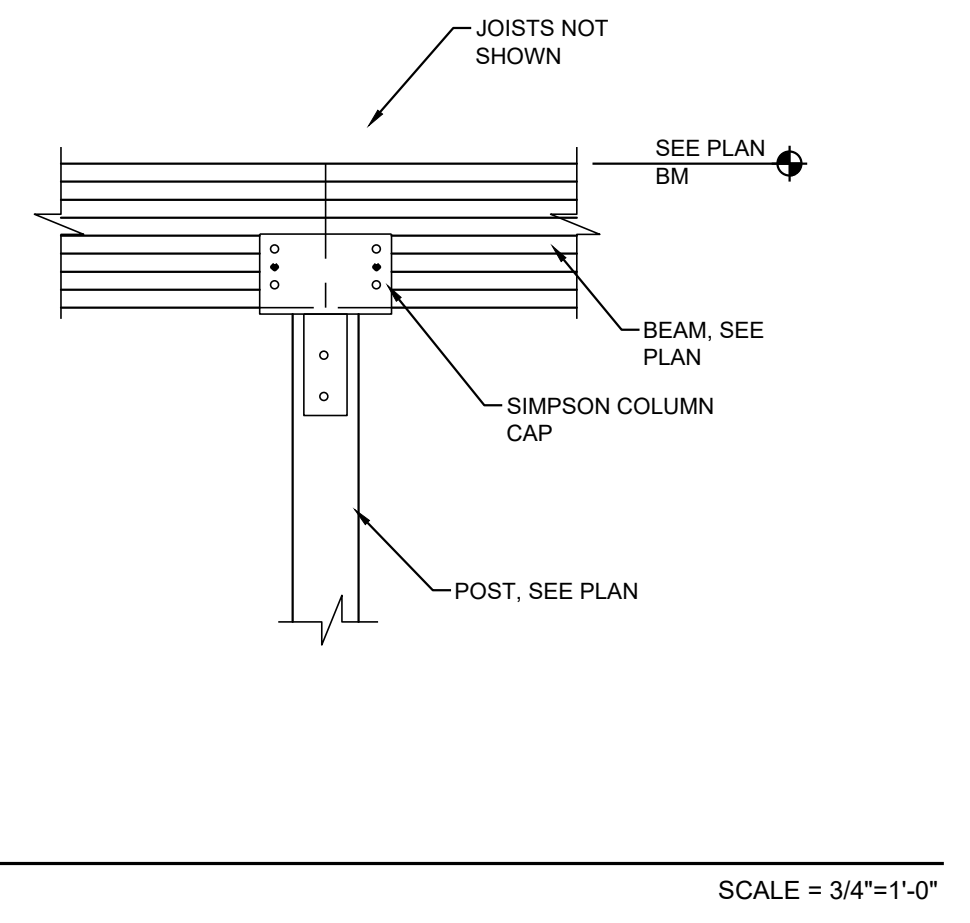


15 S202 SCALE = 3/4"=1'-0"

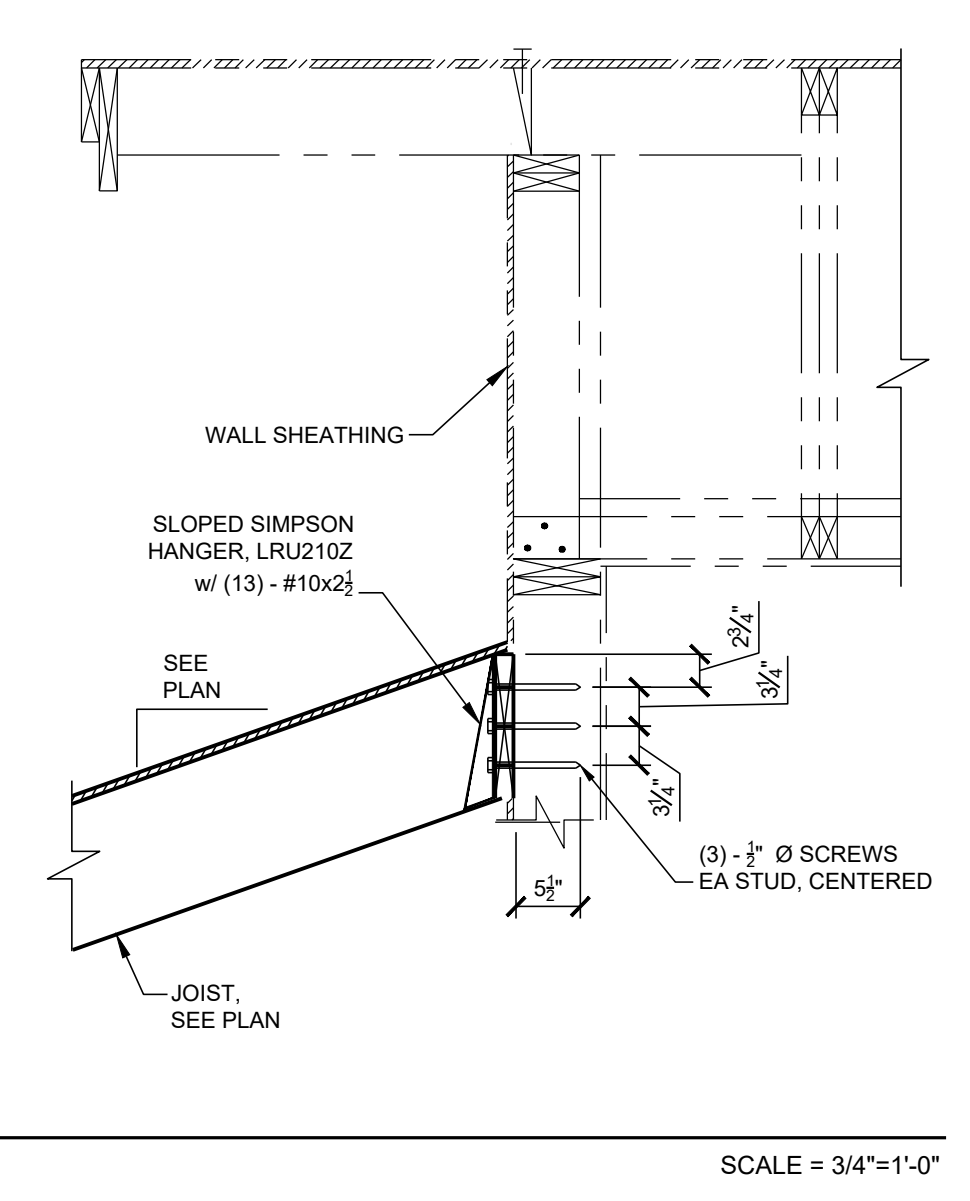
MATCH EXISTING SHINGLE ROOF COLOR, SOFFIT MATERIAL, STAIN, AND WATERPROOFING, INSTALL STAIN AND WATERPROOFING ON COLUMNS, INSTALL MATCHING FASCIA MATERIAL AND COLOR, AS EXISTING CANOPY.



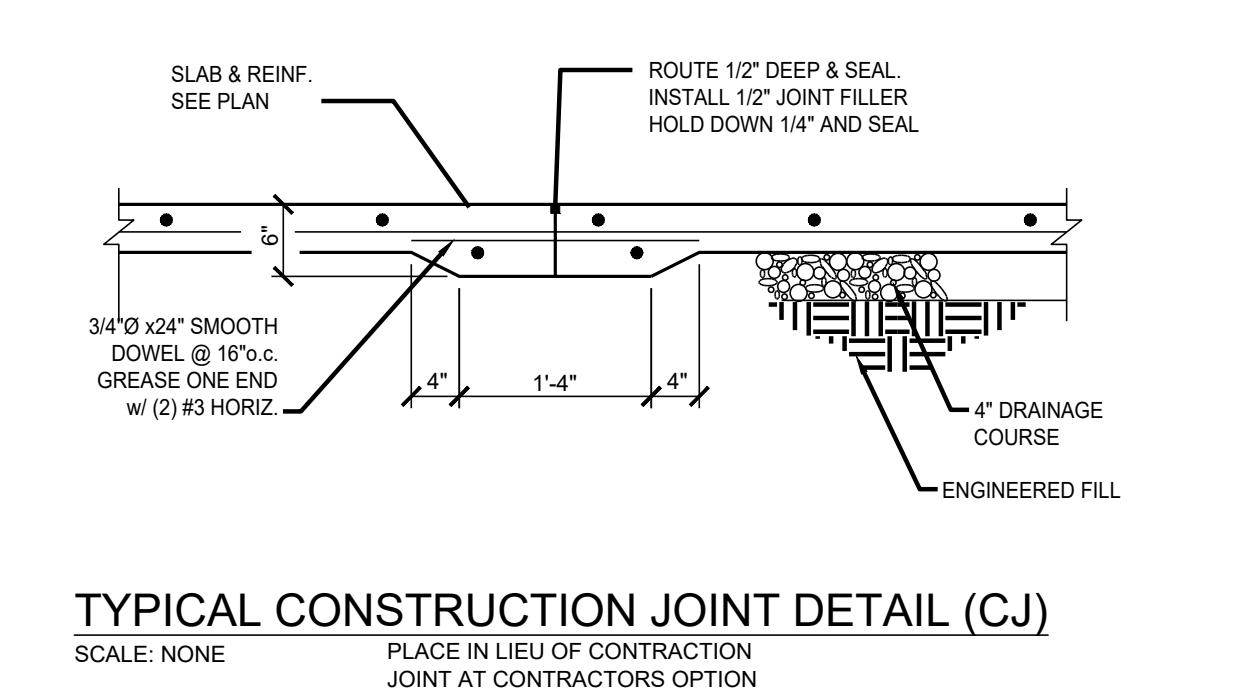
5 S202 SCALE = 3/4"=1'-0"



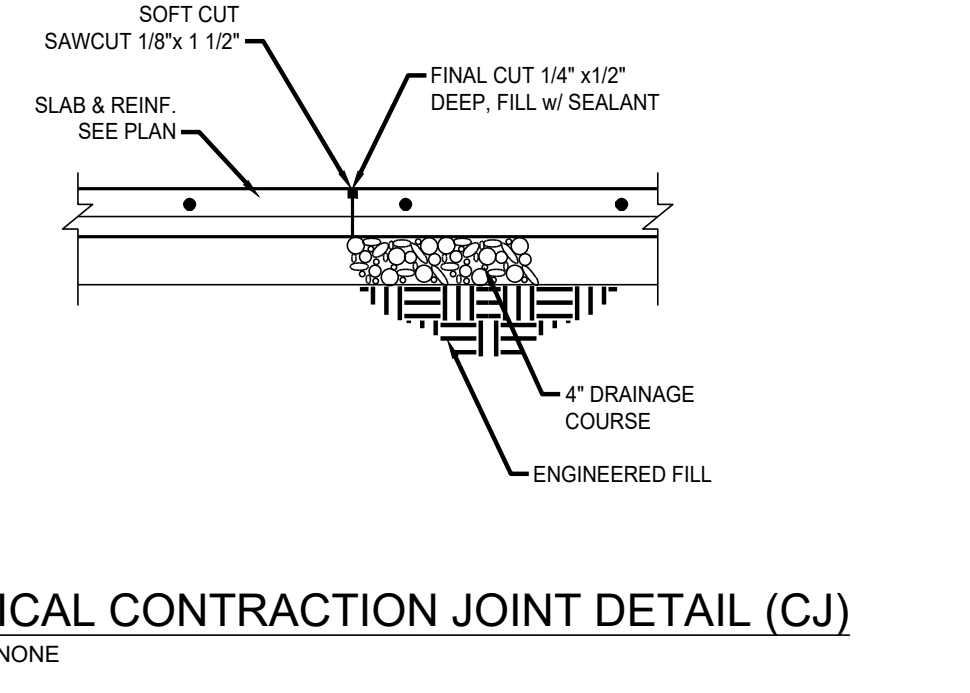
15 S202 SCALE = 3/4"=1'-0"



15 S202 SCALE = 3/4"=1'-0"



TYPICAL CONSTRUCTION JOINT DETAIL (CJ)  
 SCALE: NONE PLACE IN LIEU OF CONTRACTION JOINT AT CONTRACTORS OPTION



TYPICAL CONTRACTION JOINT DETAIL (CJ)  
 SCALE: NONE