

Sign-In Sheet:

 Project: Bid No. 2024-21-096P - Ivey Ranch Roof and HVAC

 Date: 2/7/2024

 Facilitator: CCM/Maas

 Time: 12:00 PM

 Location: Ivey Ranch Elementary School

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IVEY RANCH ELEMENTARY SCHOOL

GLULAM BEAM REPAIR



OCEANSIDE UNIFIED SCHOOL DISTRICT

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EXHIBIT 2

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Issue Date:
02/28/2023
Revisions:

Drawn By/Checked:

Consultant:

Job No.:

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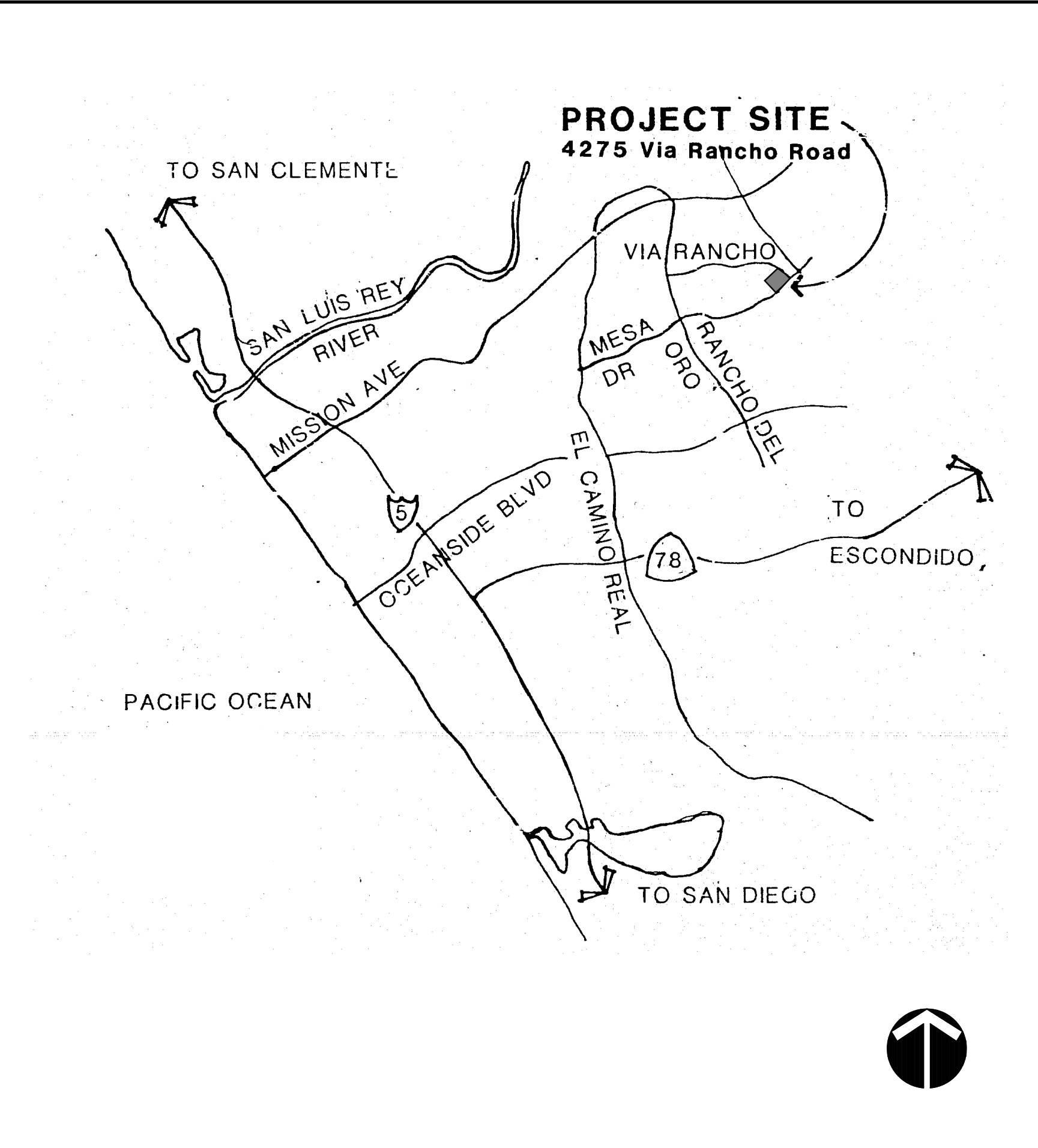
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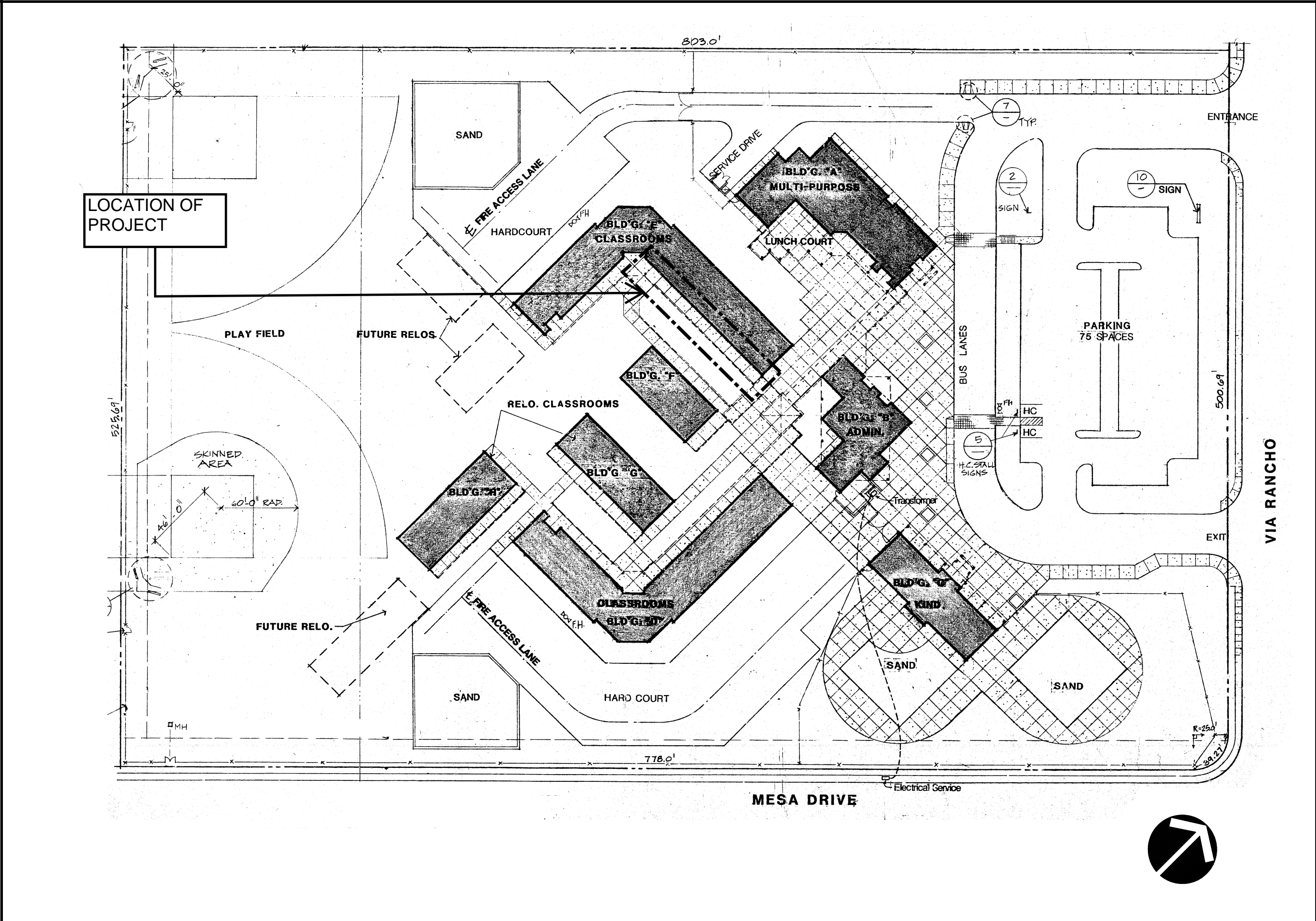
Sheet Title:
TITLE SHEET, ENLARGED
PLANS AND DETAILS
Sheet Number:

T-1.0

VICINITY MAP NOT TO SCALE



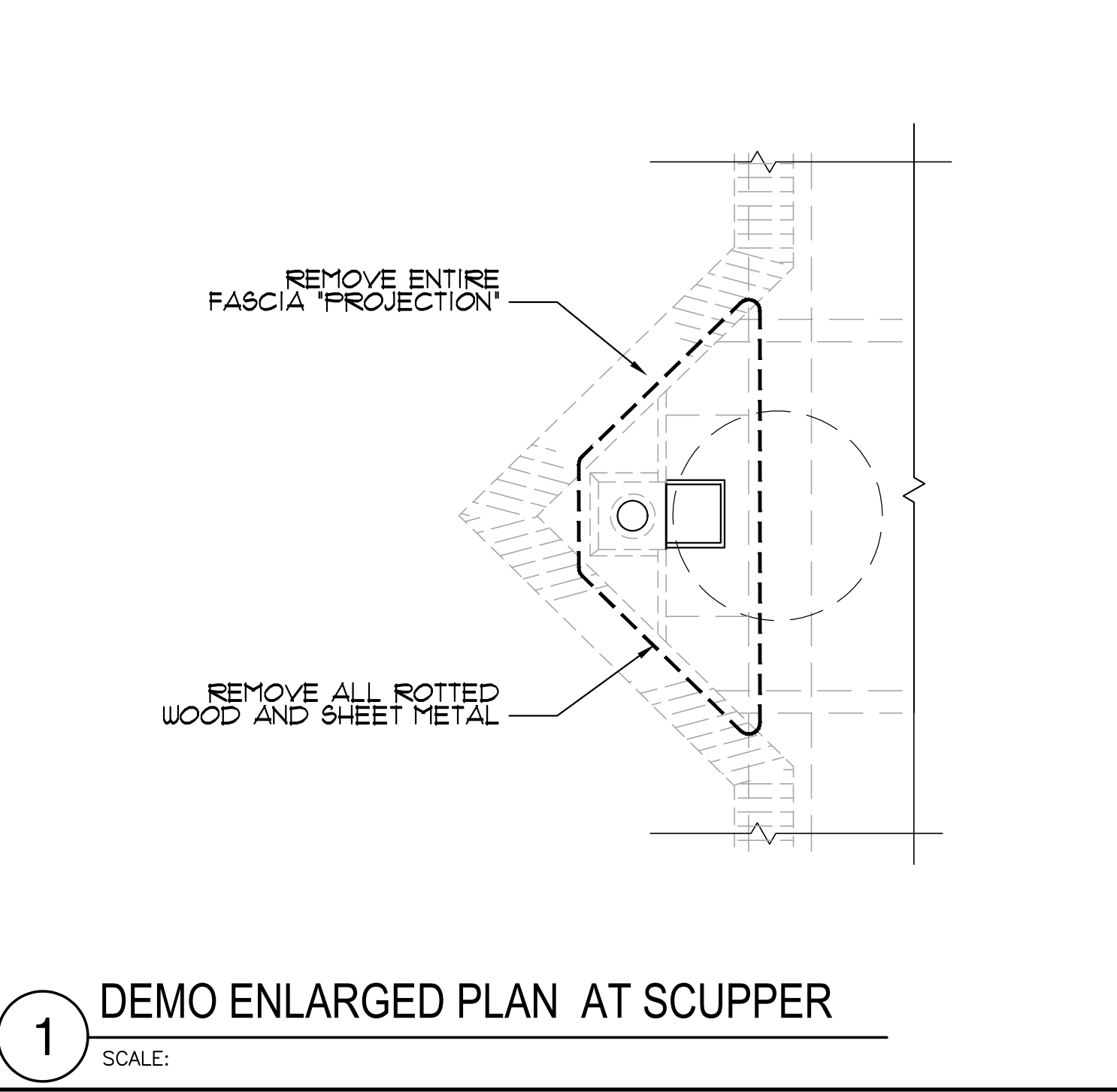
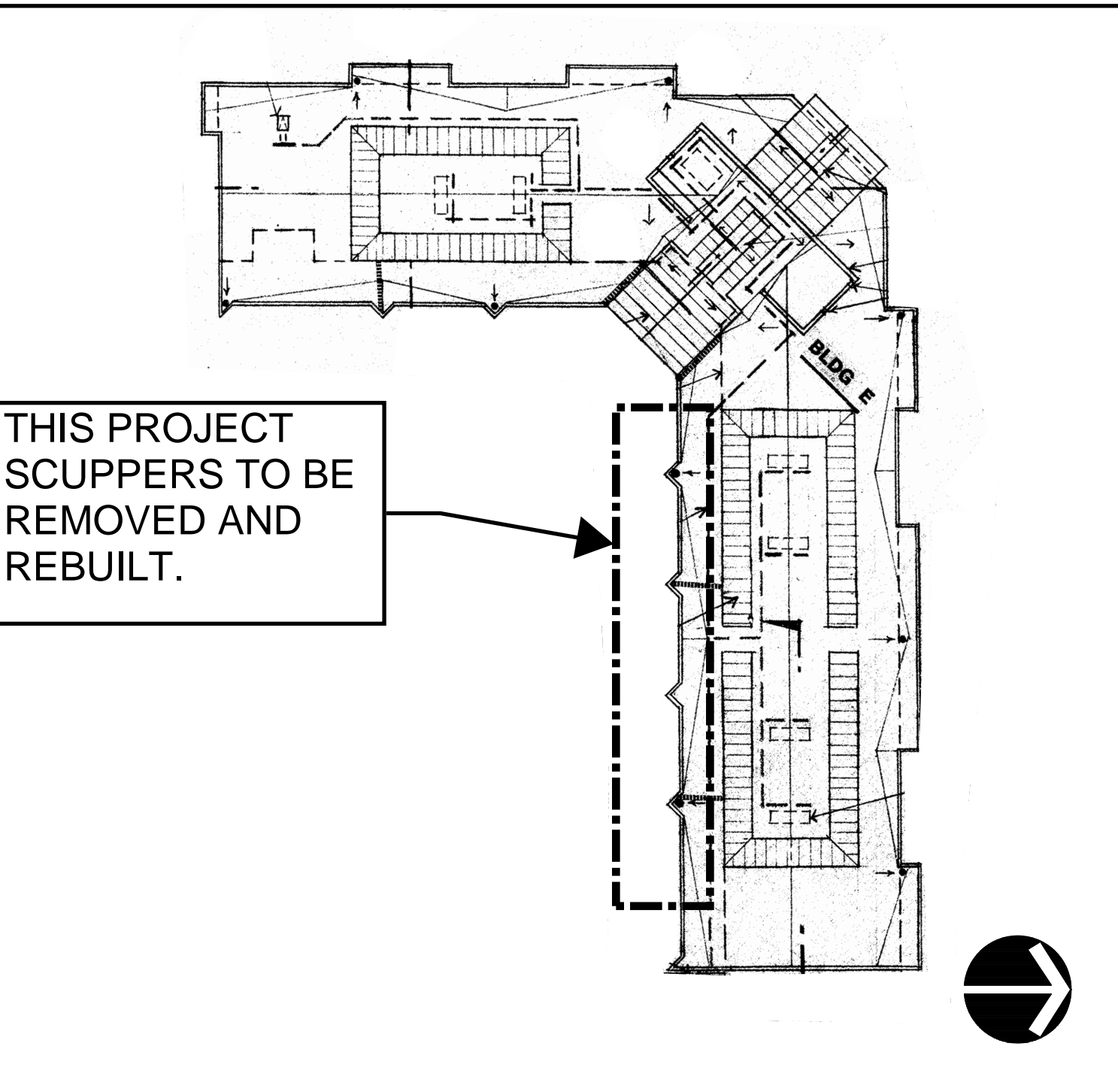
OVERALL SITE PLAN NOT TO SCALE



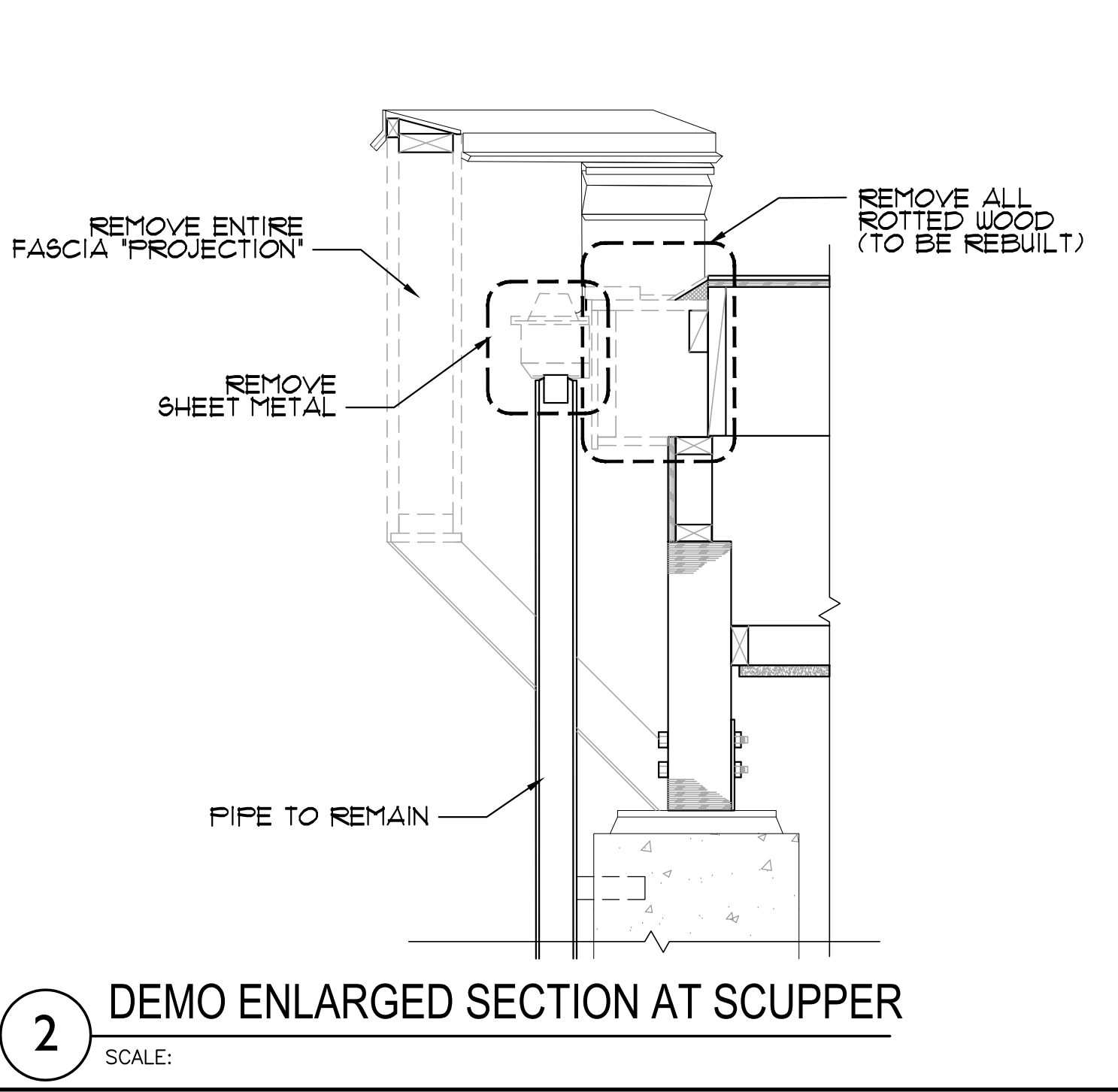
INDEX OF DRAWINGS

TITLE SHEET:	STRUCTURAL:
T-1.0 INDEX, SITE PLAN, DETAILS	S-2.1 EXISTING ROOF PLAN
	S-2.2 ROOF PLANS
	S-3.1 TYPICAL NOTES AND DETAILS

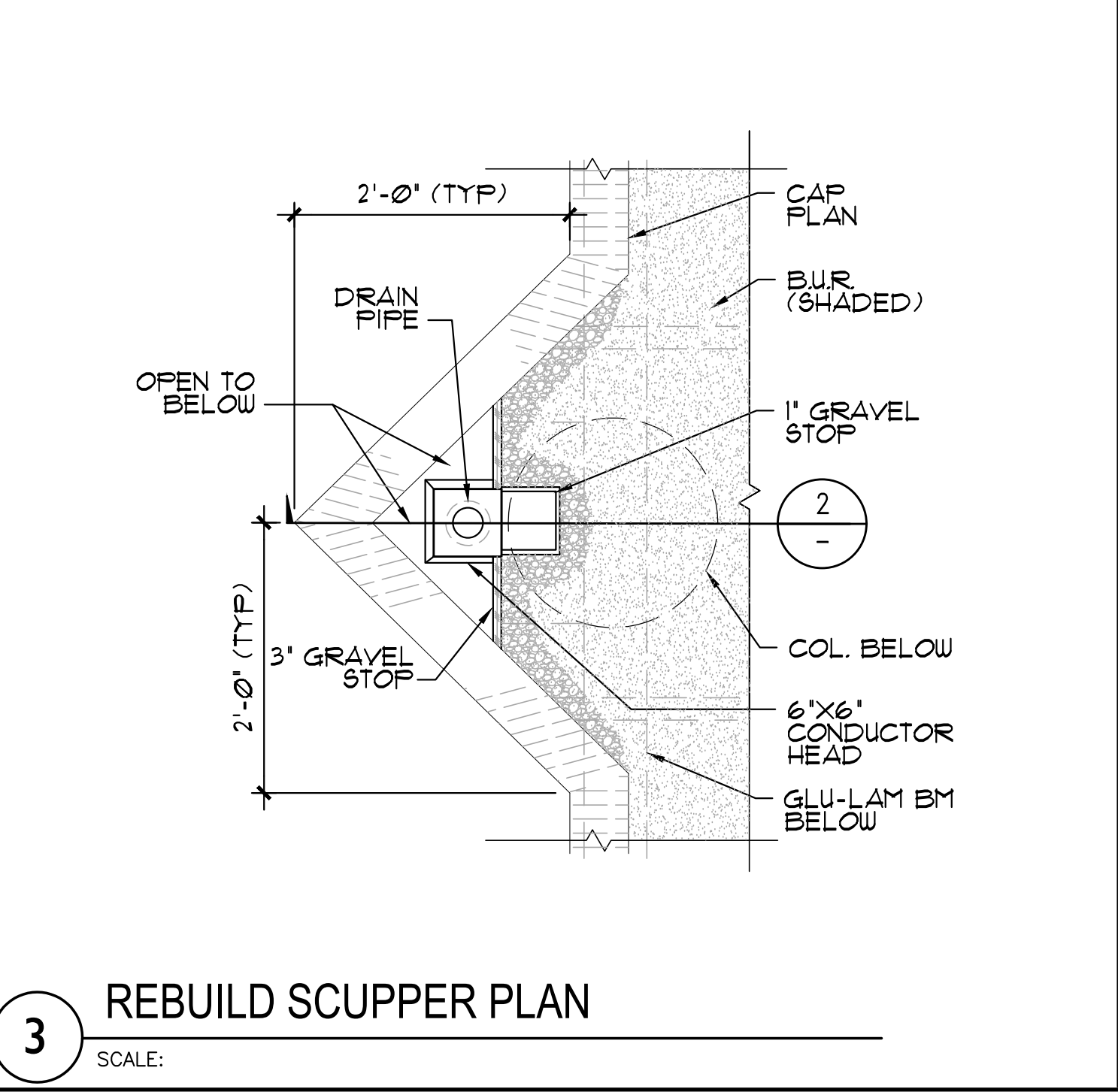
ENLARGED BUILDING E ROOF PLAN NOT TO SCALE



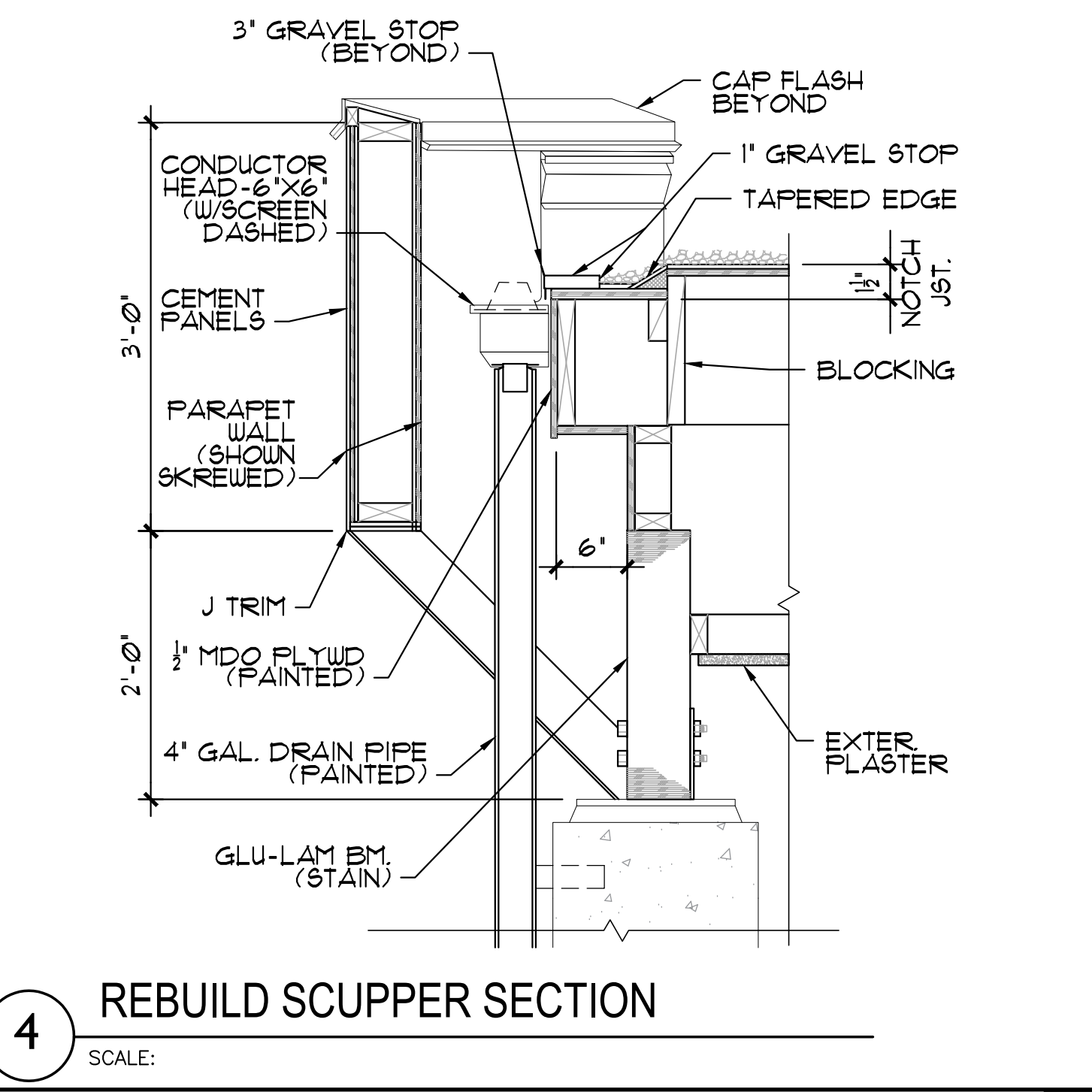
1 DEMO ENLARGED PLAN AT SCUPPER
SCALE:



2 DEMO ENLARGED SECTION AT SCUPPER
SCALE:



3 REBUILD SCUPPER PLAN
SCALE:



4 REBUILD SCUPPER SECTION
SCALE:

MINIMUM FASTENING SCHEDULE

CBC TBL 2304.10.1

CONNECTION	NAILING ¹
JOIST to sill or girder, toenail	3-8d
BRIDGING to joist, toenail each end	2-8d
1" X 6" SUBFLOOR or less to each joist, face nail	2-8d
WIDER than 1" X 6" SUBFLOOR or less to each joist, face nail	3-8d
2" SUBFLOOR to joist or girder, blind and face nail	2-16d
SOLE PLATE to joist or blocking, typical face nail	16d at 16" o.c.
SOLE PLATE to joist or blocking, at braced wall panels	3-16d at 16" o.c.
TOP PLATE to stud, end nail	2-16d
STUD to sole plate	4-8d toenail, or 2-16d end nail
DOUBLE STUD, face nail	16d at 24" o.c.
DOUBLE TOP PLATES, typical face nail	16d at 16" o.c.
DOUBLE TOP PLATE, lap splice	8-16d
BLOCKING between joists or rafters to top plate, toenail	3-8d
RIM JOIST to top plate, toenail	8d at 6" o.c.
TOP PLATE, lap at intersections, face nail	2-16d
CONTINUOUS HEADER, two pieces	16d at 16" o.c. along each edge
CEILING JOISTS to plate, toenail	3-8d
CONTINUOUS HEADER to stud, toenail	4-8d
CEILING JOISTS, laps over partitions, face nail	3-16d
CEILING JOISTS to parallel rafters, face nail	3-16d
RAFTERS to plate, toenail	3-8d
1" DIAGONAL BRACE to each stud and plate, face nail	2-8d
1" x 8" SHEATHING or less to each bearing, face nail	3-8d
WIDER than 1" x 8" SHEATHING to each bearing, face nail	3-8d
BUILD-UP CORNER studs	16d at 24" o.c.
BUILD-UP GIRDERS and BEAMS	20d at 32" o.c. at top and bottom and staggered on opposite side 2- 20d at ends and at each splice
2" PLANKS	2-16d at each bearing
COLLAR TIE to rafter, face nail	3-10d
JACK RAFTER to hip	3-10d toe nail or 2- 16d face nail
ROOF RAFTER to 2x ridge beam	2-16d toe nail or 2- 16d face nail
JOIST to band joist, face nail	3-16d
LEDGER STRIP, face nail	3-16d

1. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
 6d NAIL - 2" x 0.113" ϕ
 8d NAIL - 2 1/2" x 0.131" ϕ
 10d NAIL - 3" x 0.148" ϕ
 16d NAIL - 3 1/2" x 0.162" ϕ
 20d NAIL - 4" x 0.192" ϕ
2. 1" (INCH) = 25.4 mm

WELDING:

- ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1. (2010 EDITION).
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
- ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).
- ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES AND DISTORTION.
- ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70XX.
- SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.

GLUED-LAMINATED BEAM:

- ALL GLUED-LAMINATED BEAM (GLB) SHALL CONFORM TO MATERIAL AND LAMINATING REQUIREMENTS OF PRODUCTS STANDARD "STRUCTURAL GLUED LAMINATED TIMBER" GRADE 24-V4 DF/DF, AND WET USE ADHESIVE, ARCHITECTURAL GRADE PS 56-73.
 - PROVIDE 24-V4 DF/DF FOR SIMPLY SUPPORTED BEAMS.
- GLUED-LAMINATED BEAM TO PROVIDE ZERO CAMBER WHERE NO CAMBER IS INDICATED.
- ALL EXPOSED OR PARTIALLY EXPOSED GLUED-LAMINATED BEAMS SHALL BE PRESSURE TREATED.
- SUBMIT COPY OF AMERICAN INSTITUTE OF TIMBER CONSTRUCTION CERTIFICATE OF CONFORMANCE TO ARCHITECT, ENGINEER AND BUILDING INSPECTOR PRIOR TO INSTALLATION. SUBMIT FIVE COPIES OF COPIES OF SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- SURFACES OF MEMBERS SHALL BE SEALED WITH PENETRATING SEALER.
- MEMBERS SHALL BE WRAPPED FOR SHIPMENT.
- UNLESS OTHERWISE SPECIFIED, A COAT OF END SEALER SHALL BE APPLIED AS SOON AS POSSIBLE AFTER END TRIMMING.
- THE MAXIMUM MOISTURE CONTENT OF THE WOOD AT THE TIME OF GLUING SHALL NOT EXCEED 16 PERCENT. THE MOISTURE CONTENT OF THE WOOD FOR MEMBERS THAT WILL BE EXPOSED TO DIRECT SUNLIGHT IN THE FINISH STRUCTURE SHALL NOT EXCEED 10 PERCENT AT TIME OF GLUING. THE MINIMUM MOISTURE CONTENT SHALL NOT BE LESS THAN 7 PERCENT. THE RANGE OF MOISTURE CONTENT OF LAMINATIONS ASSEMBLED INTO A SINGLE MEMBER SHALL NOT EXCEED 5 PERCENT AT THE TIME OF GLUING.
- BEAMS SHALL BE ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED, INDUSTRIAL APPEARANCE GRADE ELSEWHERE.
- ALL LAMINATIONS FOR GLUED LAMINATED BEAMS SHALL BE 2" NOMINAL THICKNESS AND OF THE WIDTH SHOWN OR NOTED ALL LAMINATIONS SHALL BE PARALLEL TO THE BOTTOM EDGE OF THE BEAM, EXCEPT AS NOTED.
- NOTCHING OR BORING OF GLUED LAMINATED BEAMS SHALL BE ALLOWED ONLY WHERE SPECIFICALLY DETAILED.

STEEL:

- FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. 360-10 "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
- QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.
- MATERIALS:

ANGLES, MISC. STEEL	A.S.T.M. A36
MISCELLANEOUS PLATES	A.S.T.M. A-572 GRADE 36
MISCELLANEOUS BOLTS	A.S.T.M. A-307
RUST-INHIBITING PRIMER	TT-P-645 A.S.T.M.
TYPICAL STEEL CONNECTION BOLTS	A.S.T.M. A-307
- INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A) AND TO NOTES AND DETAILS ON DRAWINGS.
- BURNING OF HOLES IS NOT ALLOWED.
- BOLTS HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.

STRUCTURAL OBSERVATION:

- PER C.B.C. CHAPTER 17 SECTION 1702, THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.
- THE ENGINEER MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO EACH INDIVIDUAL CONCRETE PLACEMENT (POUR) OF THE CONCRETE FOUNDATION.

DESIGN BASIS:

CODE: 2022 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

- FLAT ROOF LIVE LOAD 20 P.S.F. (REDUCIBLE)

GENERAL NOTES:

- THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
- THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE 2022 C.B.C. (CALIFORNIA BUILDING CODE), AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASE. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- NEITHER THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

LUMBER:

- STRUCTURAL LUMBER SHALL BE STRESS-MARKED DOUGLAS FIR-LARCH OR HEM FIR. S4S IN ACCORDANCE WITH GRADING AND DRESSING RULE NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU.
- LUMBER SHALL NOT BE BORE OR NOTCHED, EXCEPT WHERE DETAILED.
- METAL CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR EQUAL, EXCEPT AS SHOWN. FILL ALL HOLES OF THE PREFAB. CONNECTORS AS SPECIFIED BY MANUFACTURER.
- LUMBER MINIMUM GRADE:

A. HORIZONTAL MEMBERS:	
JOISTS AND RAFTERS	NO. 1 AND BETTER
LEDGERS AND NAILERS	NO. 1 AND BETTER
- ALL BOLTS AND LAG SCREWS SHALL HAVE STANDARD CUT WASHERS BETWEEN THE WOOD AND THE NUTS. SEE DRAWINGS FOR LOCATIONS OF PLATE WASHERS AS REQUIRED.

BOLTS.....	A.S.T.M.	A-307
LAG SCREWS.....	A.N.S.I.	B-18
NUTS.....	A.S.T.M.	A-563
WASHERS	A.S.T.M.	F-844
- LEAD HOLES FOR LAG SCREWS SHALL HAVE THE SAME DIAMETER OF THE SHANK FOR THE UNTHREADED PORTION OF THE SHANK, AND 70% OF THE SHANK DIAMETER FOR THE THREADED PORTION. ALL LAG SCREWS SHALL BE INSERTED BY TURNING WITH A WRENCH AND NOT BY DRIVING WITH A HAMMER.
- ALL NAILING SHALL CONFORM NAILING SCHEDULE, USING COMMON WIRE NAILS. PREDRILL ALL NAILS 20d AND LARGER AND WHERE REQUIRED TO PREVENT SPLITTING.
- THE MOISTURE CONTENT OF WOOD MEMBERS SHALL NOT EXCEED 19%, DURING INSTALLATION. IT WILL BE THE RESPONSIBILITY OF THE INSPECTOR OF RECORD TO VERIFY THAT THE CONTRACTOR HAS SUPPLIED LUMBER OF THE PROPER MOISTURE CONTENT BEFORE INSTALLATION. THE USE OF A HAND HELD MOISTURE CONTENT METER IS ACCEPTABLE.

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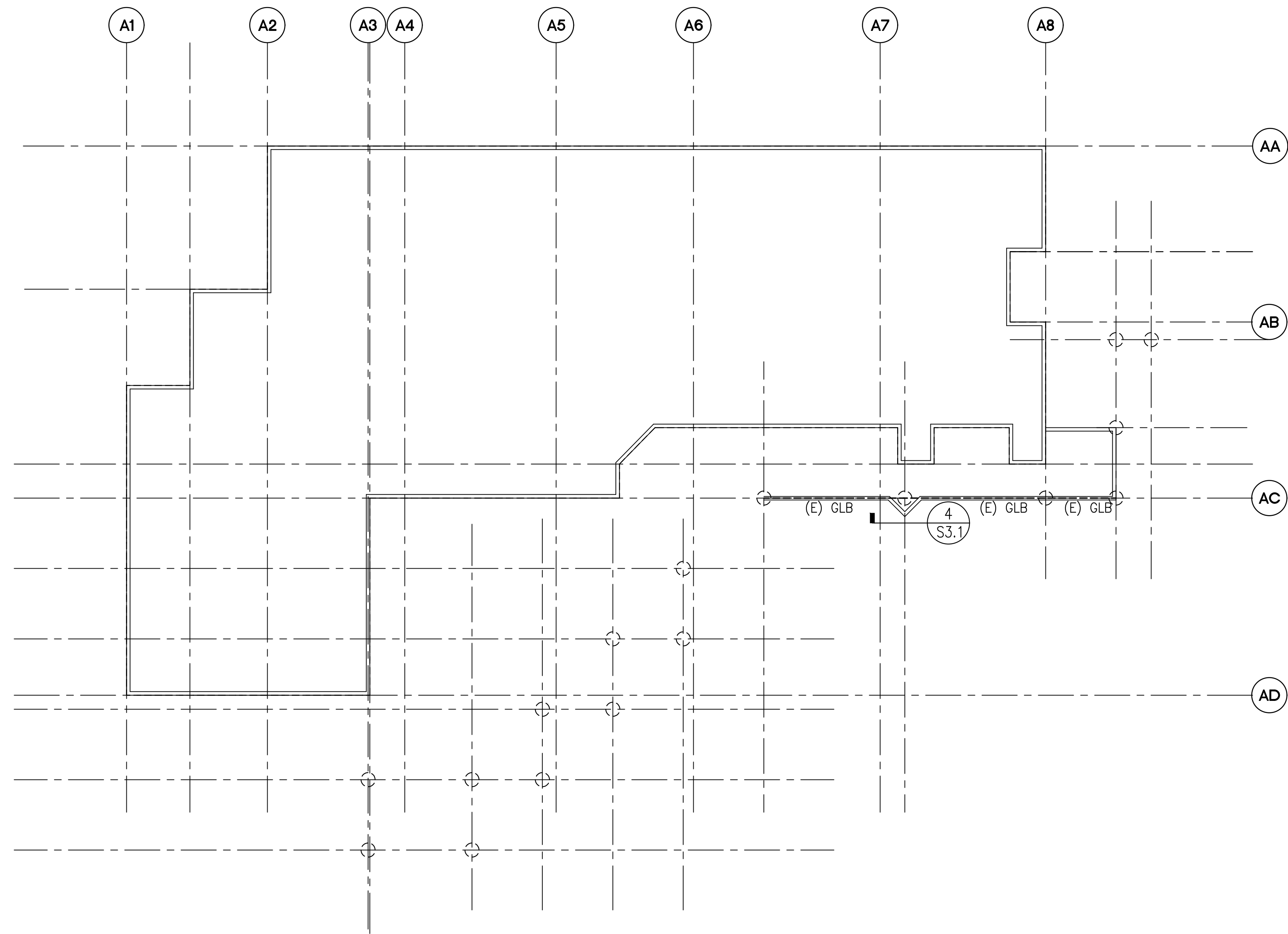


Sheet Title:

TYPICAL NOTES

Sheet Number:

S1.1



EXISTING ROOF PLAN - BLDG A
 SCALE 3/32" = 1'-0"
 NORTH

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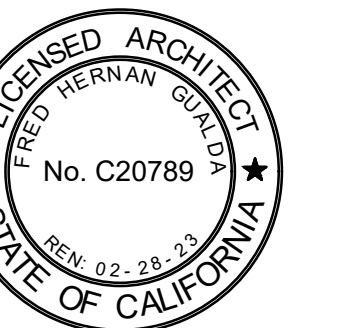
STRUCTURAL ENGINEER OF RECORD
ORION
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 SAN DIEGO CA 92127
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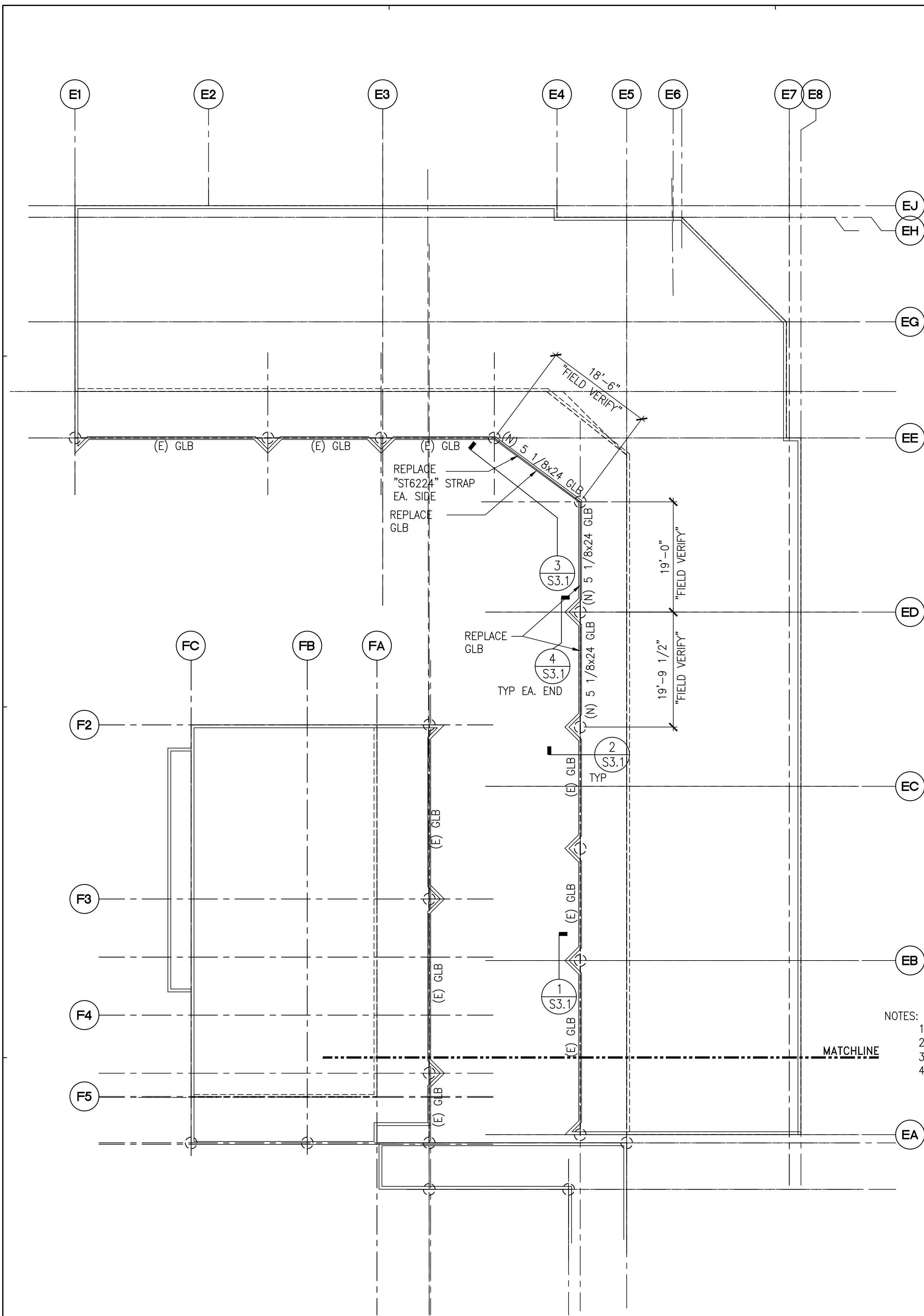
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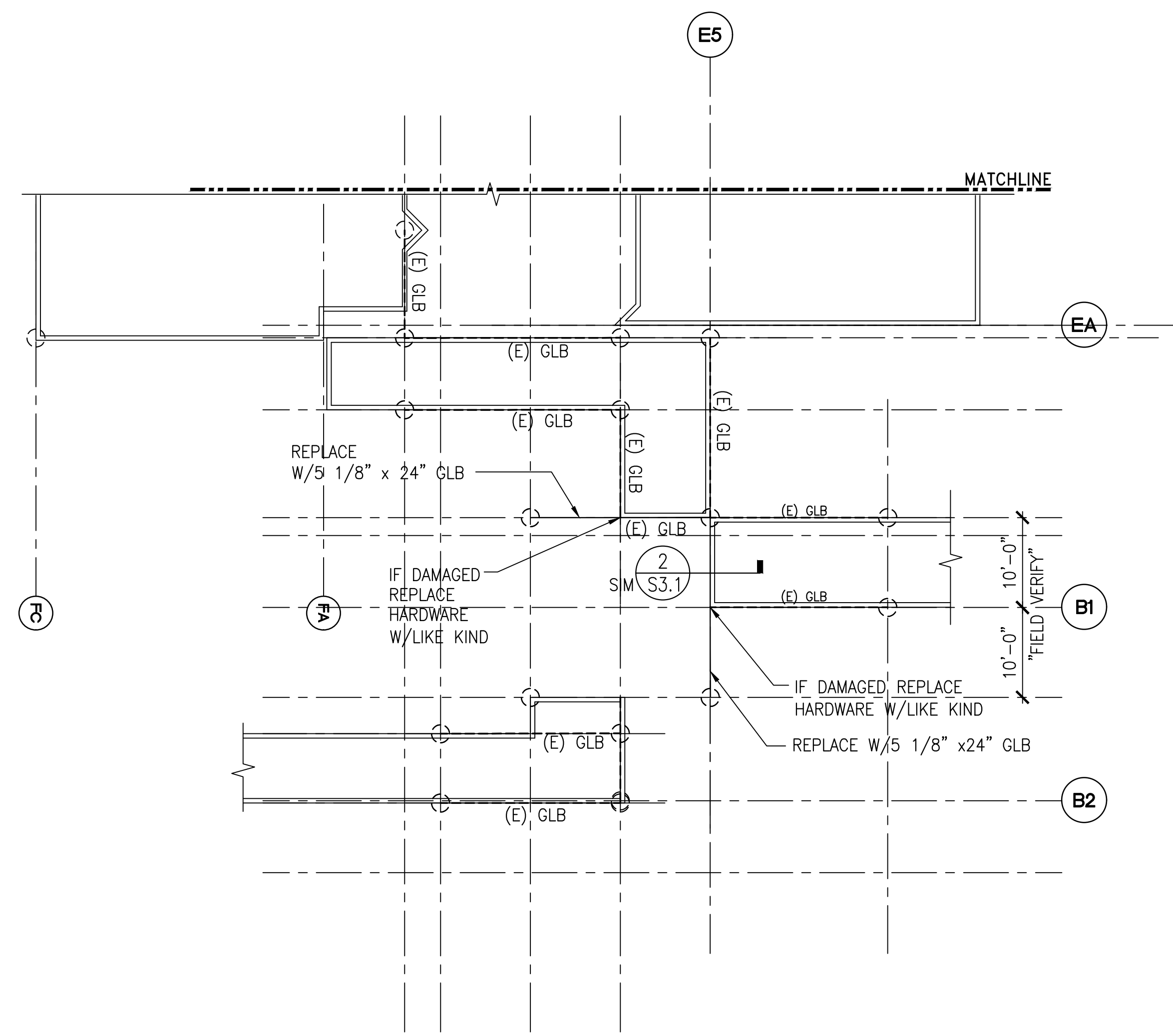
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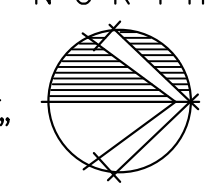
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S2.1



- NOTES:
1. ALL GLB TO BE GRADE 24FV4
 2. ALL BOLTS TO BE ASTM A307 (OR BETTER) GRADE
 3. ALL GWOOD MATERIALS TO BE DFL #2 OR BETTER
 4. ALL HARDWARE TO BE SIMPSON STRONG TIE OR BETTER



EXISTING ROOF PLAN – BLDG B
 SCALE 3/32" = 1'-0" 

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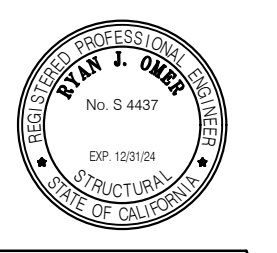
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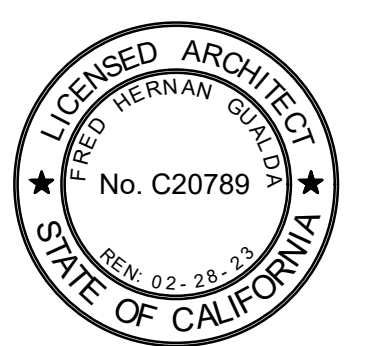
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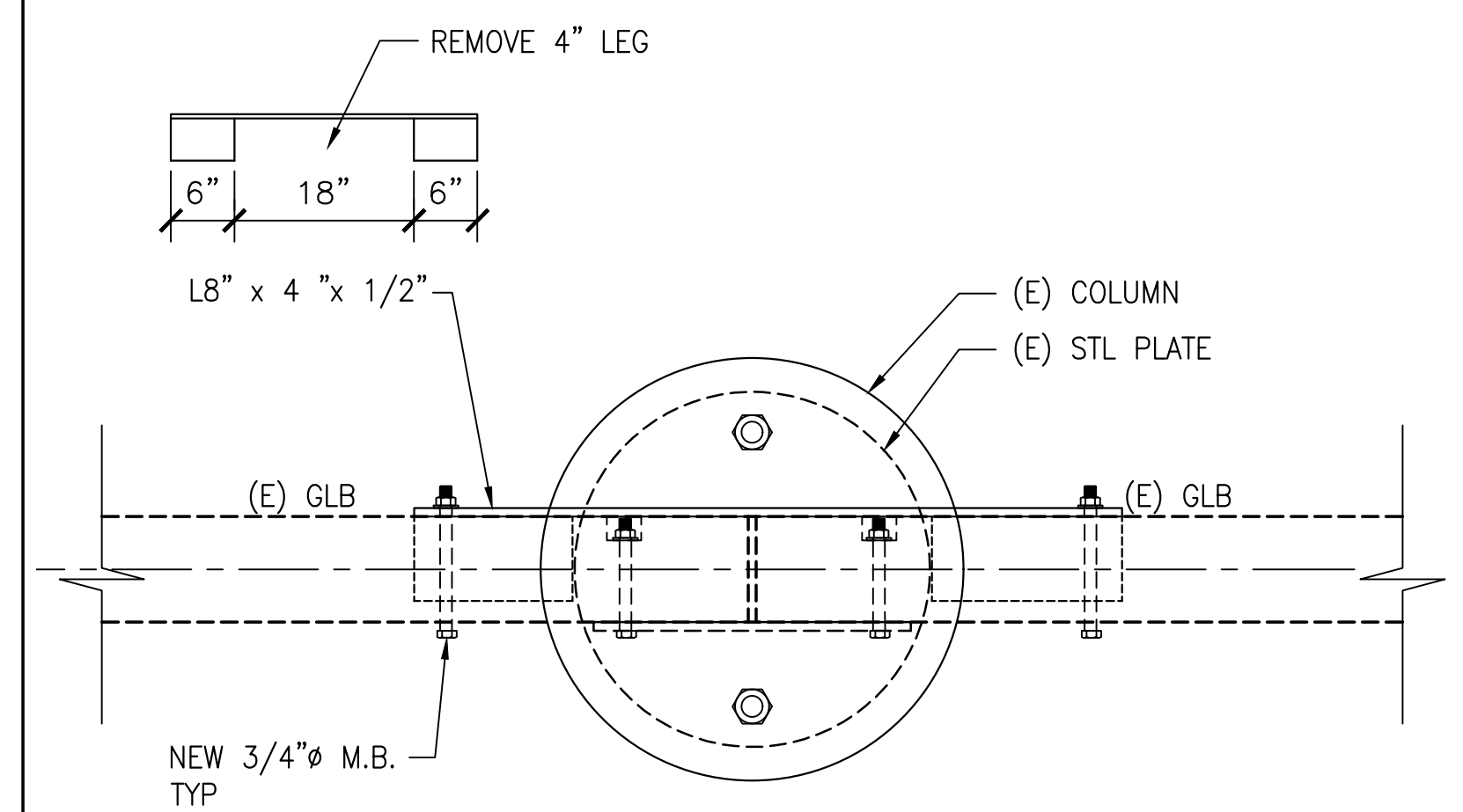
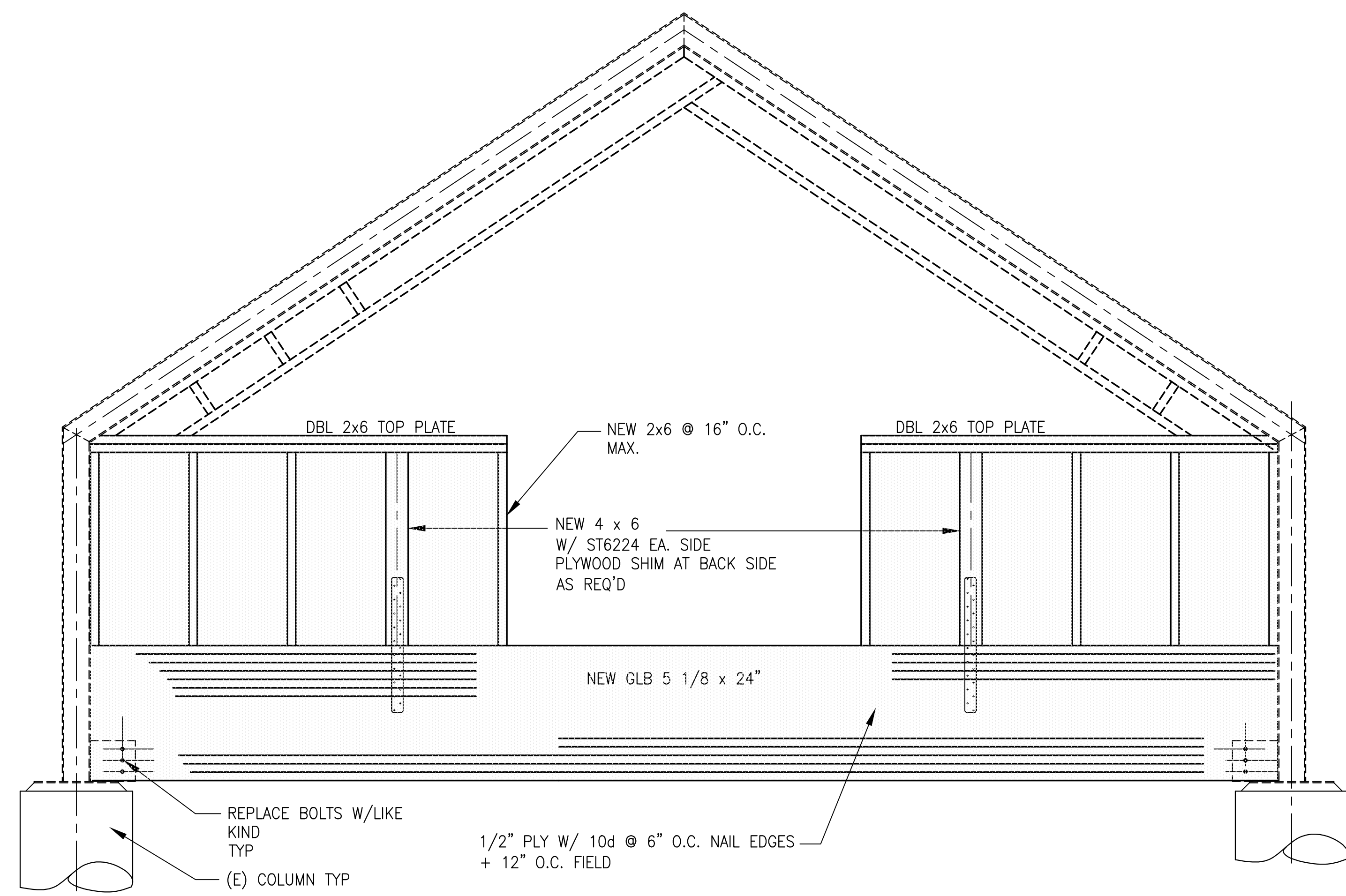


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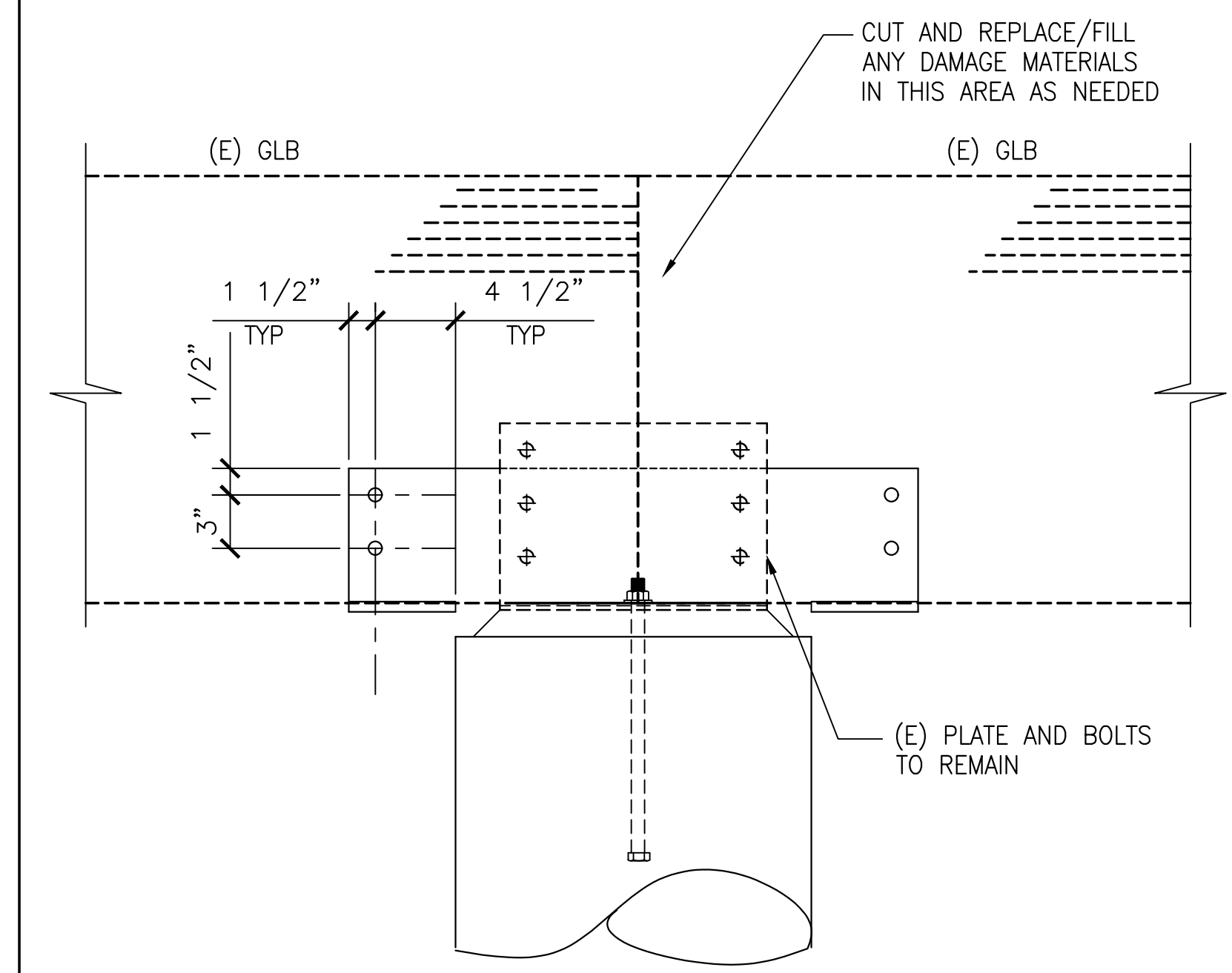
ROOF PLANS

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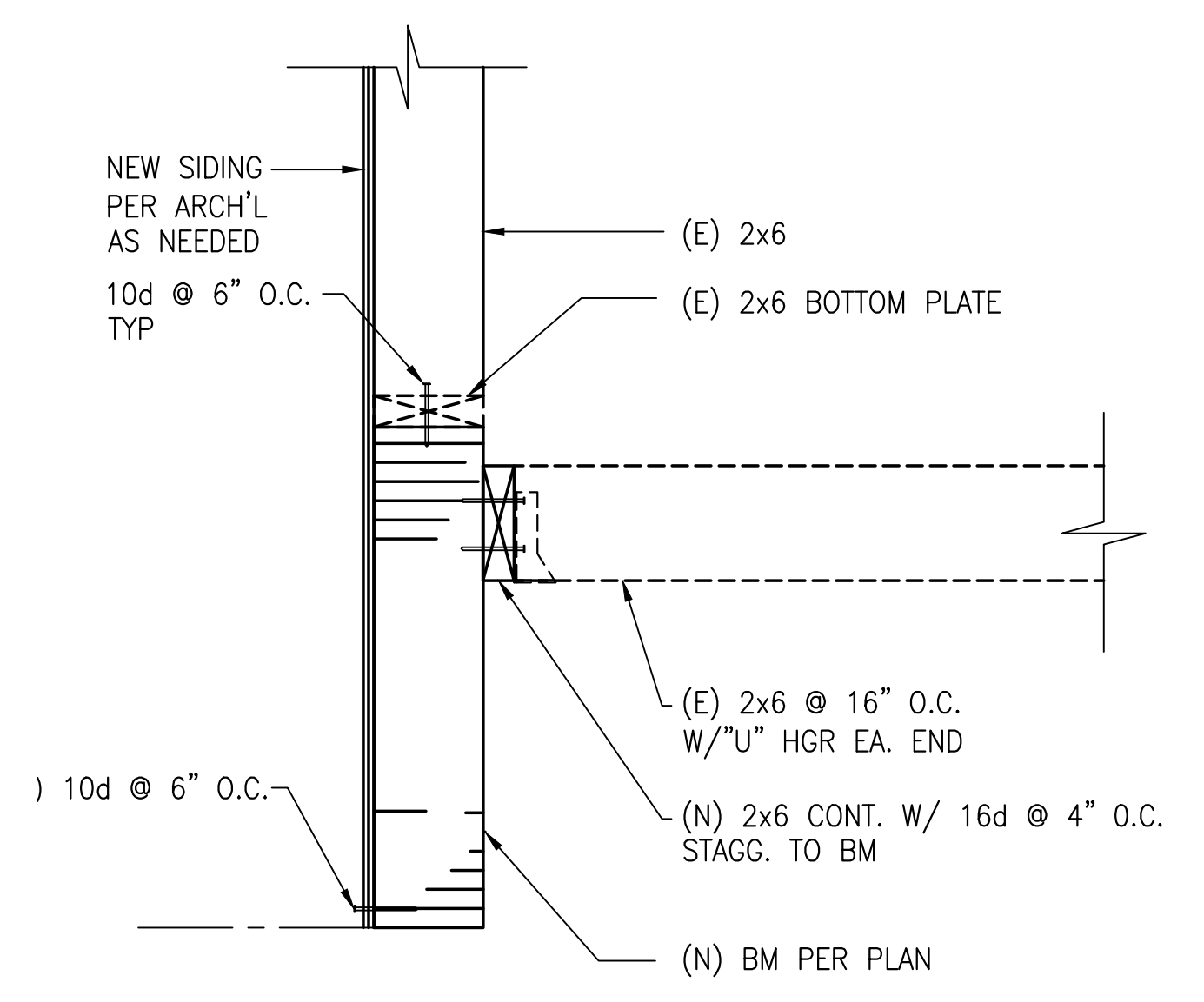
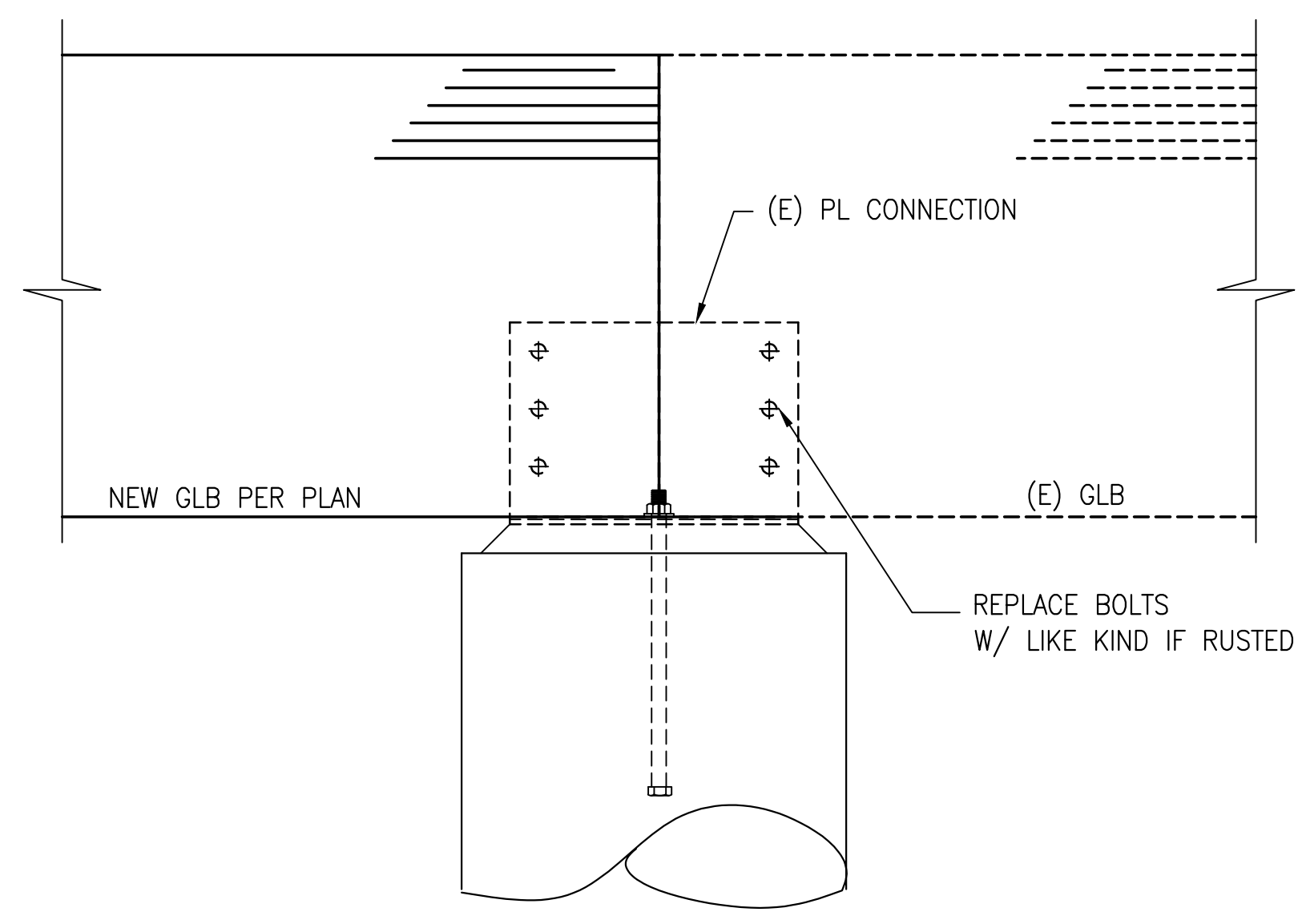
S2.2



PLAN



ELEVATION



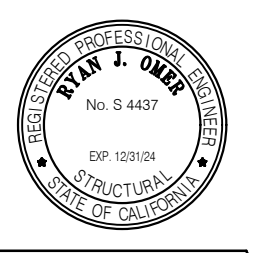
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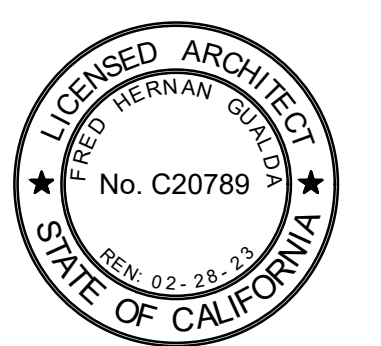
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TYPICAL NOTES

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S3.1



**ADDENDUM # 2
RFP 2024-21-096P**

**ARCHITECTURAL SERVICES –
IVEY RANCH ELEMENTARY SCHOOL ROOF & HAVC**

END OF ADDENDUM # 2