

1) DESIGN CRITERIA

A. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND CRITERIA:

1. 2017 FLORIDA BUILDING CODE
2. ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3. AISC360-10, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
4. NDS 2012, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
5. AISI S100-12, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

B. BUILDING CLASSIFICATION

1. BUILDING OCCUPANCY CLASSIFICATION: R

C. DEAD LOADS

1. 5 PSF + STEEL SELF WEIGHT

D. LIVE LOADS

1. ROOF = 20.0 PSF (REDUCIBLE)

E. WIND LOADS DESIGN CRITERIA

- DESIGN WIND SPEED, V_{ult} = 130 MPH
- NOMINAL WIND SPEED, V_{ASD} = 102 MPH
- RISK CATEGORY = II
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE, GCP = +/- 0.18
- VELOCITY PRESSURE, K_d = 0.85

F. SEISMIC DESIGN CRITERIA

- DESIGN CATEGORY = B
- IMPORTANCE FACTOR, I_e = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION: S_s = 0.099 g, S_1 = 0.056 g
- SITE CLASS = D
- SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.105 g, S_{D1} = 0.090 g

SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

- R = 3.00
- C_s = 0.035

ANALYSIS PROCEDURE USED:

EQUIVALENT LATERAL FORCE

- GROUND SNOW LOAD, P_g = 00.0 PSF
- FLAT ROOF SNOW LOAD, P_f = 0.0 PSF
- SNOW EXPOSURE FACTOR, C_e = 1.00
- THERMAL FACTOR, C_t = 1.20

2) FOUNDATIONS

- A. FOUNDATION IS TO BE DESIGNED BY OTHERS BASED ON REACTIONS PROVIDED ON SHEET E1.1
- B. MAXIMUM ANCHOR BOLT DIAMETER IS 5/8", MINIMUM ANCHOR BOLT DIAMETER IS 1/2"
- C. PROVIDE WASHERS ON ALL ANCHOR BOLTS

3) STRUCTURAL STEEL

A. MATERIAL

1. HOT ROLLED STRUCTURAL MEMBERS: ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6.
2. ASTM SPECIFICATION AND GRADE UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL STEEL SHALL BE AS FOLLOWS:
 - a) STRUCTURAL ANGLES: A572, Gr. 50
 - b) STRUCTURAL ROD: A572, Gr. 50
 - c) W-SHAPES: A992
 - d) PLATE: A36
 - e) S, C, M, AND MC SHAPES: A36
 - f) HSS, RECTANGULAR: A500, Gr. C - $F_y = 50$ ksi
 - g) HSS, ROUND: A500, Gr. C - $F_y = 46$ ksi
 - h) PIPE: A53, Gr. B

B. STRUCTURAL BOLTS AND THREADED FASTENERS

1. ASTM A325 or SAE J429 GRADE 5 BOLTS U.N.O.
2. ALL BOLTS TO BE BEARING TYPE BOLTS WITH THREADS ASSUMED TO BE IN BEARING SURFACE (TYPE N)
3. ALL BOLTS TO BE TIGHTENED TO THE "PRETENSIONED JOINTS" REQUIREMENTS PER RCSC SPECIFICATION SECTION 4.2 UNLESS NOTED OTHERWISE. ANY OF THE INSTALLATION METHODS SPECIFIED IN SECTION 8.2 OF THE RCSC ARE PERMITTED (TURN OF NUT, CALIBRATED WRENCH, ETC.)

C. WELDING

1. UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX
2. ALL WELDING SHALL CONFORM TO AWS (AMERICAN WELDING SOCIETY) SPECIFICATION D1.1

4) COLD-FORMED STEEL METAL FRAMING

- A. ALL ROOF AND WALL SHEET METAL SHALL BE 29 GA., 80-KSI MINIMUM, PANEL-LOCK PLUS™ OR EQUIVALENT WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
 - $I_x(T)_{min} = 0.0110 \text{ in}^4/\text{ft}$
 - $I_y(B)_{min} = 0.0073 \text{ in}^4/\text{ft}$
 - $S_x(T)_{min} = 0.0181 \text{ in}^3/\text{ft}$
 - $S_y(B)_{min} = 0.0180 \text{ in}^3/\text{ft}$

- B. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH OF 50 KSI AS INDICATED.

- C. ALL MEMBERS SHOWN ARE STANDARD DESIGNATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)

D. CONNECTIONS

1. FASTENING OF COMPONENTS SHALL BE BY SELF-DRILLING SCREWS OR BY WELDING AS DEFINED BELOW U.N.O. ON THE DRAWINGS
2. SELF DRILLING SCREW CONNECTIONS
 - a) A MINIMUM OF THREE (3) EXPOSED THREADS SHALL PENETRATE THROUGH ALL JOINED MATERIALS

5) TIMBER DESIGN

A. LIMITATIONS

1. ALL WOOD CONSTRUCTION IS TO BE PROVIDED BY OTHERS. PROVIDE BRIDGING AS REQUIRED

B. MATERIAL

1. ALL DIMENSIONAL LUMBER FRAMING MEMBERS ARE TO BE #2 YELLOW SOUTHERN PINE. ALTERNATIVELY LUMBER FRAMING SHALL MEET THE FOLLOWING MINIMUM BASE DESIGN VALUES IN ACCORDANCE WITH THE REFERENCED ISSUE OF THE NDS:
 - 1.1.1. $F_b = 1,500$ psi
 - 1.1.2. $E = 1,600,000$ psi
 - 1.1.3. $F_v = 175$ psi
 - 1.1.4. $F_{cl} = 1,650$ psi

2. ROOF PURLINS: 2x8, 2'-0" C/C MAX, AND AT ENDS
3. WALL GIRTS: 2x6, 2'-0" C/C MAX, AND AT ENDS
4. LUMBER WITH MOISTURE CONTENT NOT EXCEEDING 19%.

- LUMBER SHALL BE GRADE STAMPED WITH THE APPROPRIATE WMPA OR SPIB STAMP INDICATING COMPLIANCE WITH PS-20 LUMBER DEFECTS OCCURRING IN THE CONNECTOR PLATE

C. CONNECTIONS

1. PROVIDE A MINIMUM OF 1/4" PENETRATION INTO CROSS SECTION OF EACH MEMBER BEING JOINED. SIZE SCREWS ACCORDINGLY

6) MISCELLANEOUS

A. WALK DOORS AND WINDOWS

1. WALK DOORS AND WINDOWS MAY BE FIELD LOCATED. NO WIND ROD BRACING OR COLUMN CHORD BRACING SHALL BE CUT TO ACCOMMODATE WINDOWS OR DOOR

B. INSPECTION REQUIREMENTS

1. AS BUILDING IS A UTILITY BUILDING THAT IS ACCESSORY TO A RESIDENCE, BUILDING IS EXEMPT FROM SPECIAL INSPECTIONS PER SECTION 1704.2 OF THE INTERNATIONAL BUILDING CODE

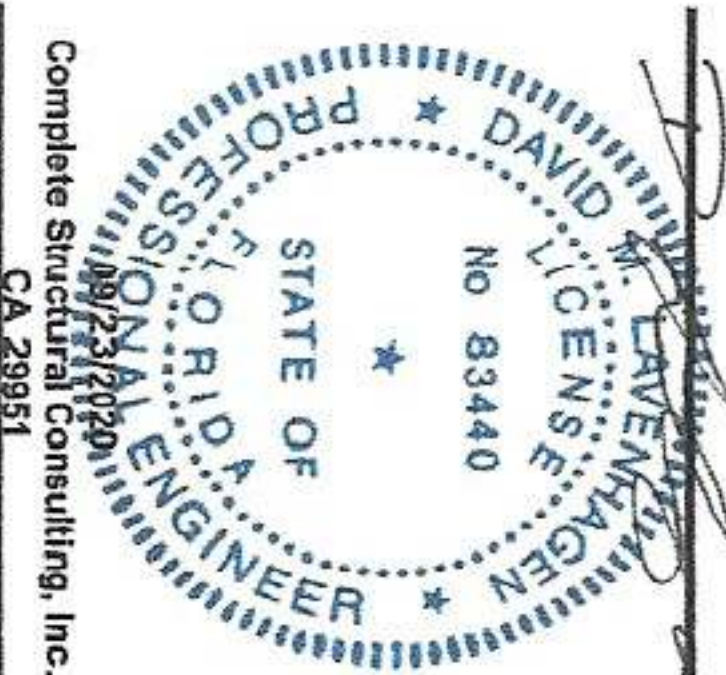
7) LEGEND

- EL = RELATIVE ELEVATION W/ RESPECT TO GROUND FLOOR
- C/C = CENTER TO CENTER
- C/L = CENTERLINE
- CONT = CONTINUOUS
- PSF = POUNDS PER SQUARE FOOT
- TYP = TYPICAL
- UNO = UNLESS NOTED OTHERWISE
- CB = CHORD BRACING
- EXT. = EXTENSION



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JOB NUMBER 20.553
SHEET
E1.0



1. FOUNDATION TO BE DESIGNED BY REGISTERED ENGINEER IN THE STATE THE PROJECT IS LOCATED FOR THE FORCES INDICATED ON SHEET E1.1



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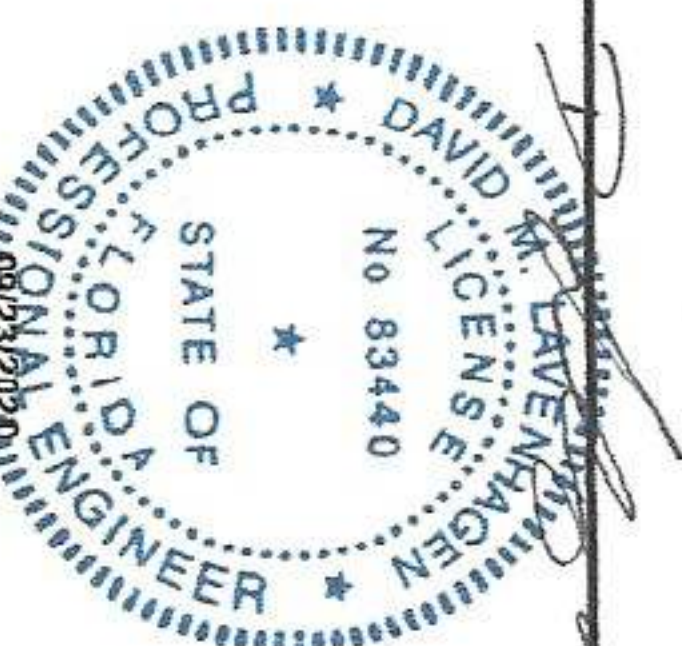
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- NOTES, WALL ELEVATIONS:

6x6 POST, PROVIDED
& INSTALLED BY
BUILDING OWNER.
TYP. (8 THUS)

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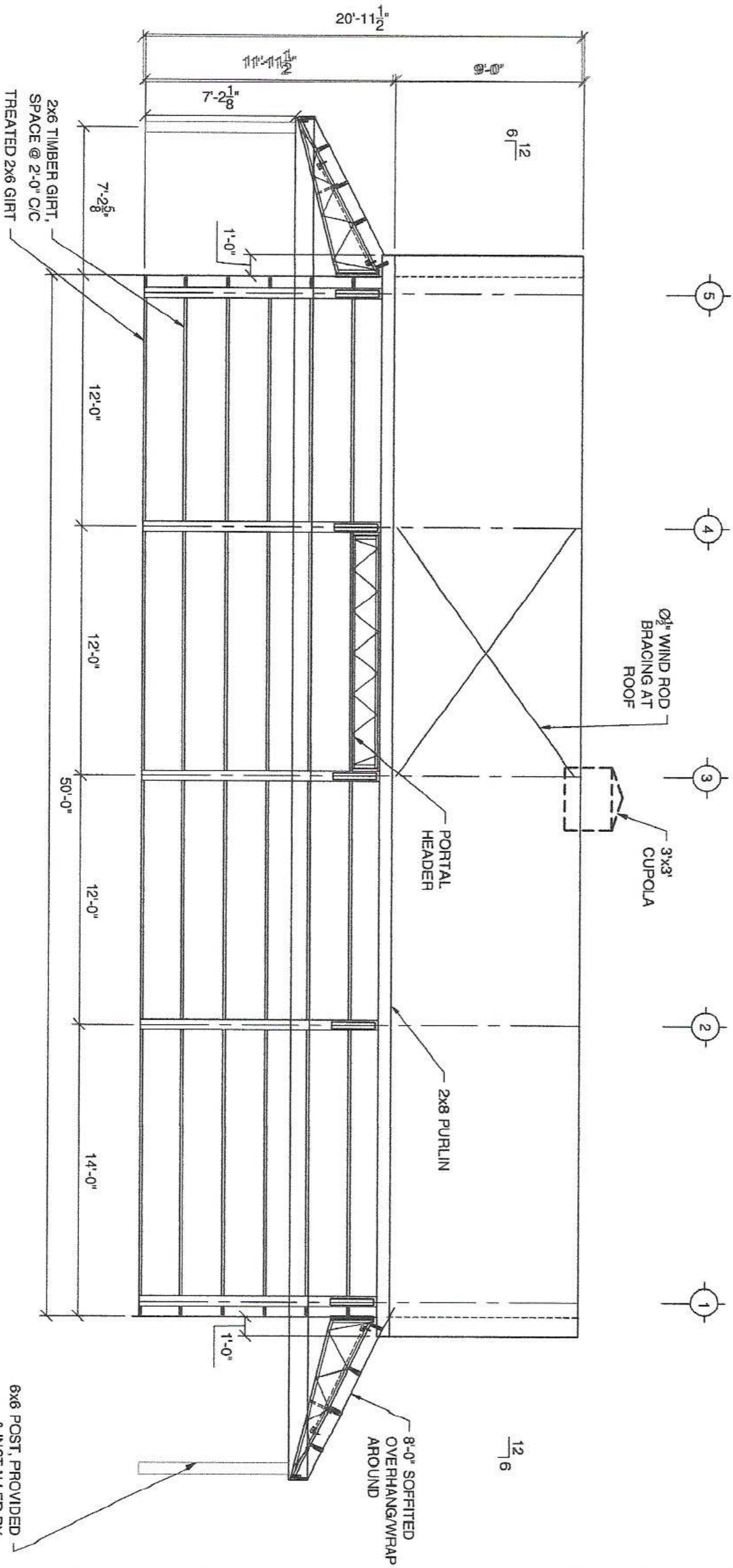
SHEET

3.0

1 ELEVATION AT LEFT SIDEWALL
SCALE: 3/16" = 1'-0"

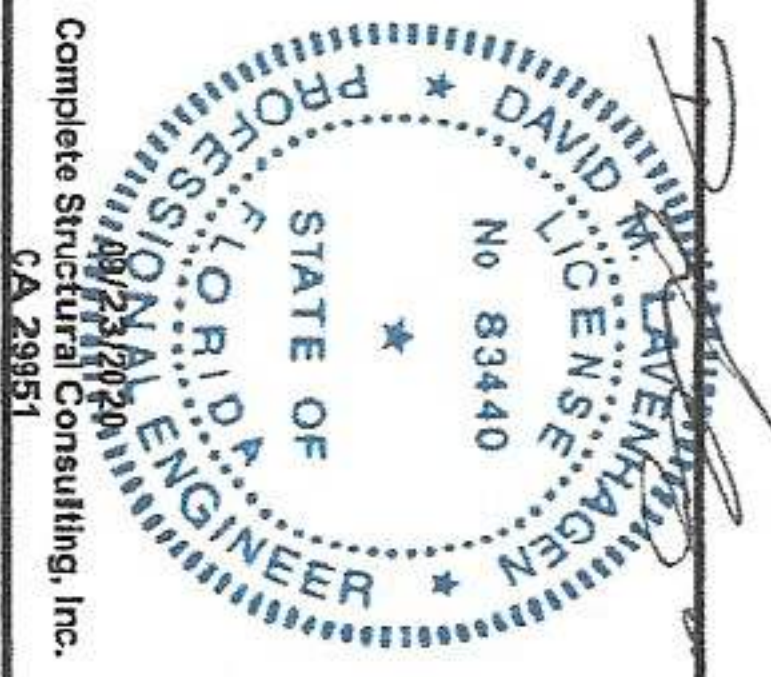
- NOTES, WALL ELEVATIONS:
1. COLUMN CHORD BRACING IS VITAL TO THE STABILITY OF THE STEEL FRAMES AND SHALL NOT BE REMOVED, RELOCATED, OR MODIFIED IN ANY WAY. ERECTOR SHALL CONFIRM THAT BRACING IS INSTALLED PER THESE DRAWINGS BEFORE TURNING THE BUILDING OVER TO THE OWNER. BRACING TO BE PRESENT ON EVERY TRUSS WALL DECKING AND GIRTS ARE VITAL TO THE STABILITY OF THE STEEL BUILDING. BUILDING IS NOT STABLE UNTIL ALL DECKING IS INSTALLED. SEE ATTACHMENT PATTERN ON E5.0
 - 2.

6x6 POST, PROVIDED & INSTALLED BY BUILDING OWNER, TYP. (8 THUS)



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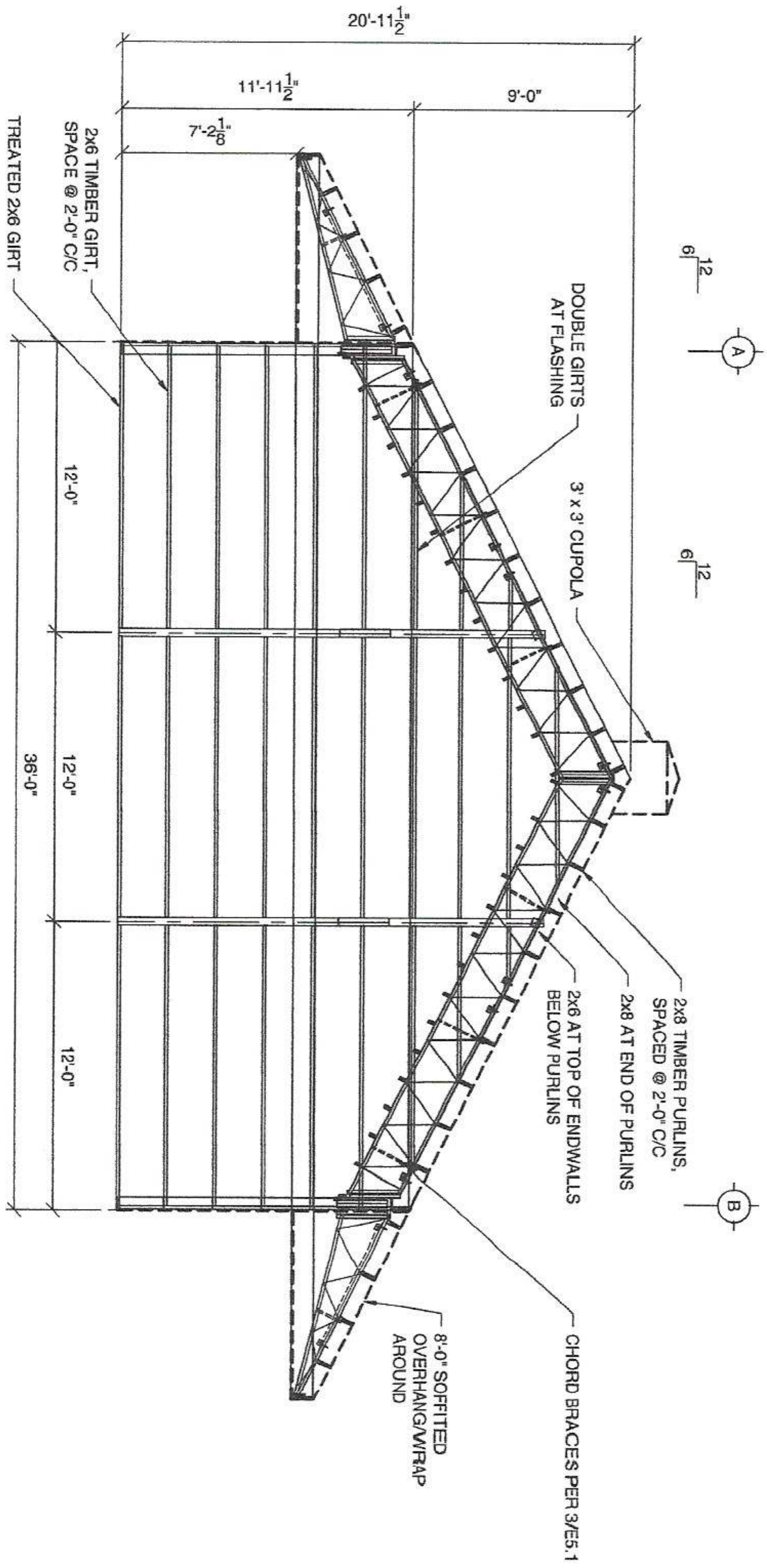
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SHEET
E3.1



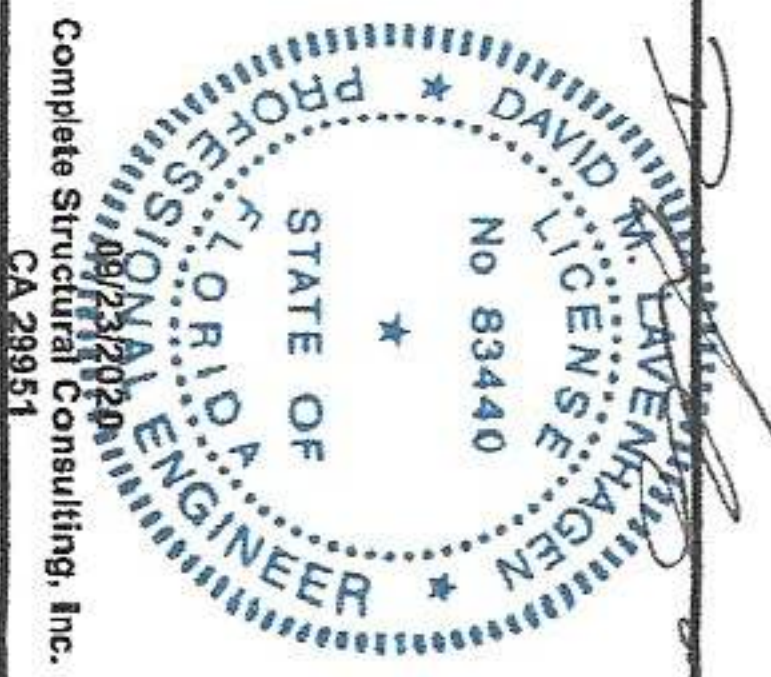
1 ELEVATION AT FRONT ENDWALL
SCALE: 3/16" = 1'-0"

- NOTES, WALL ELEVATIONS:**
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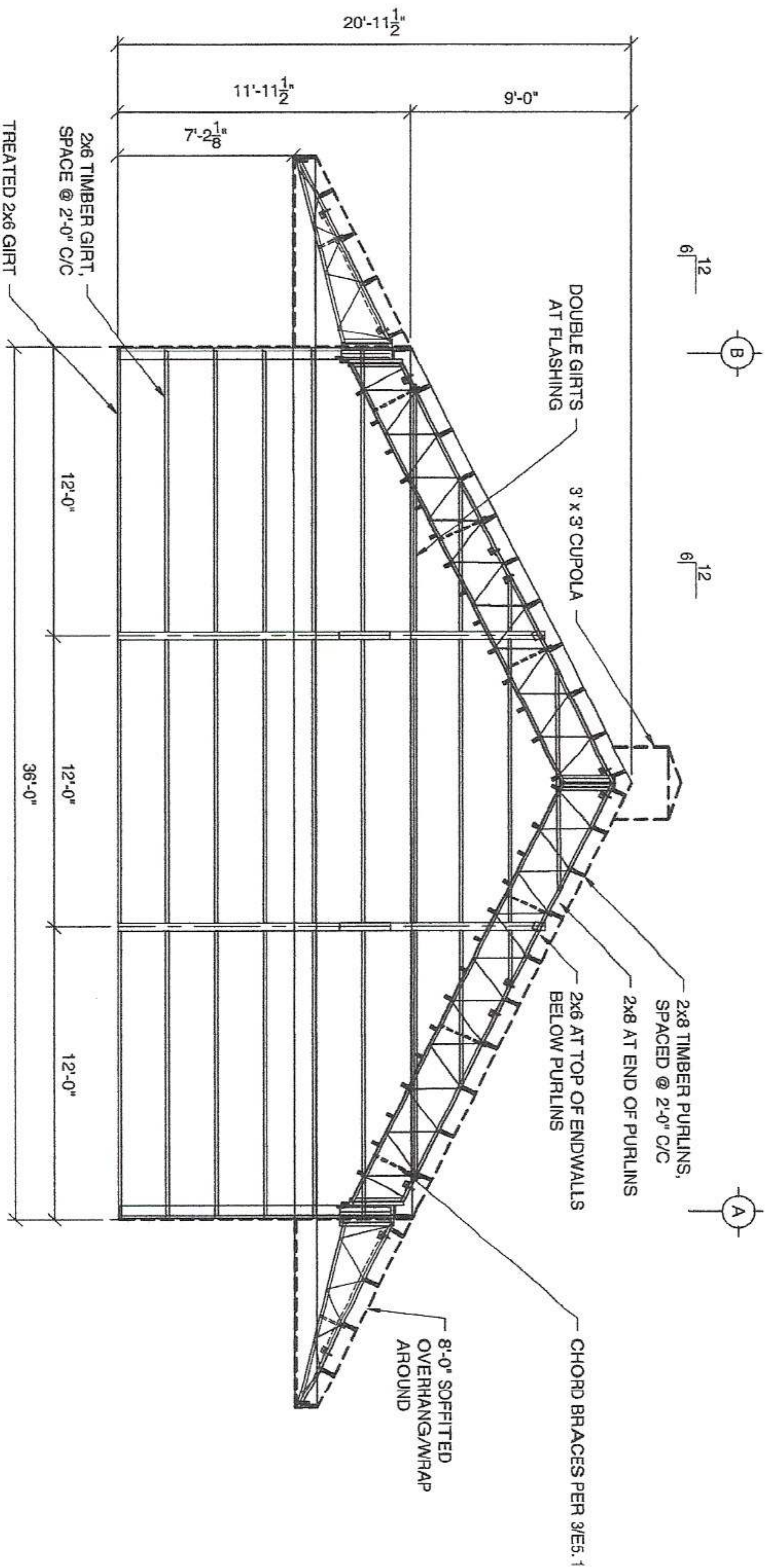
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SHEET
E4.0



1 ELEVATION AT REAR ENDWALL
SCALE: 3/16" = 1'-0"

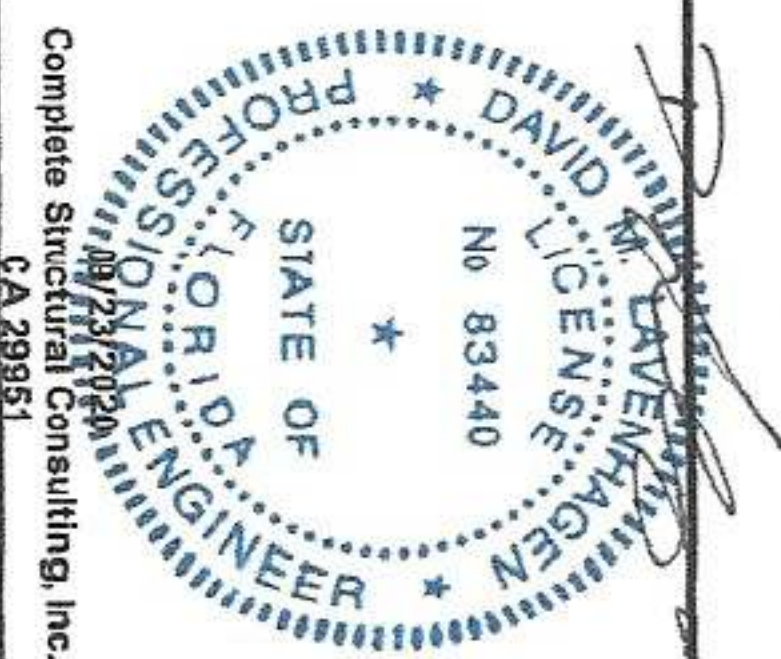
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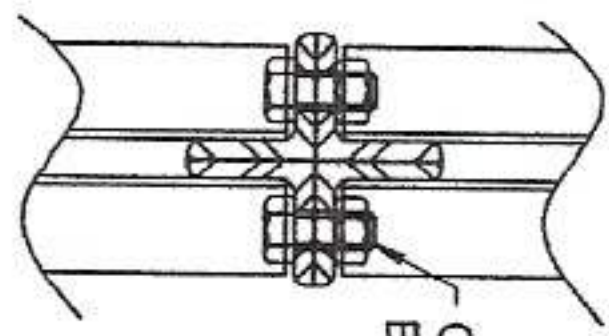


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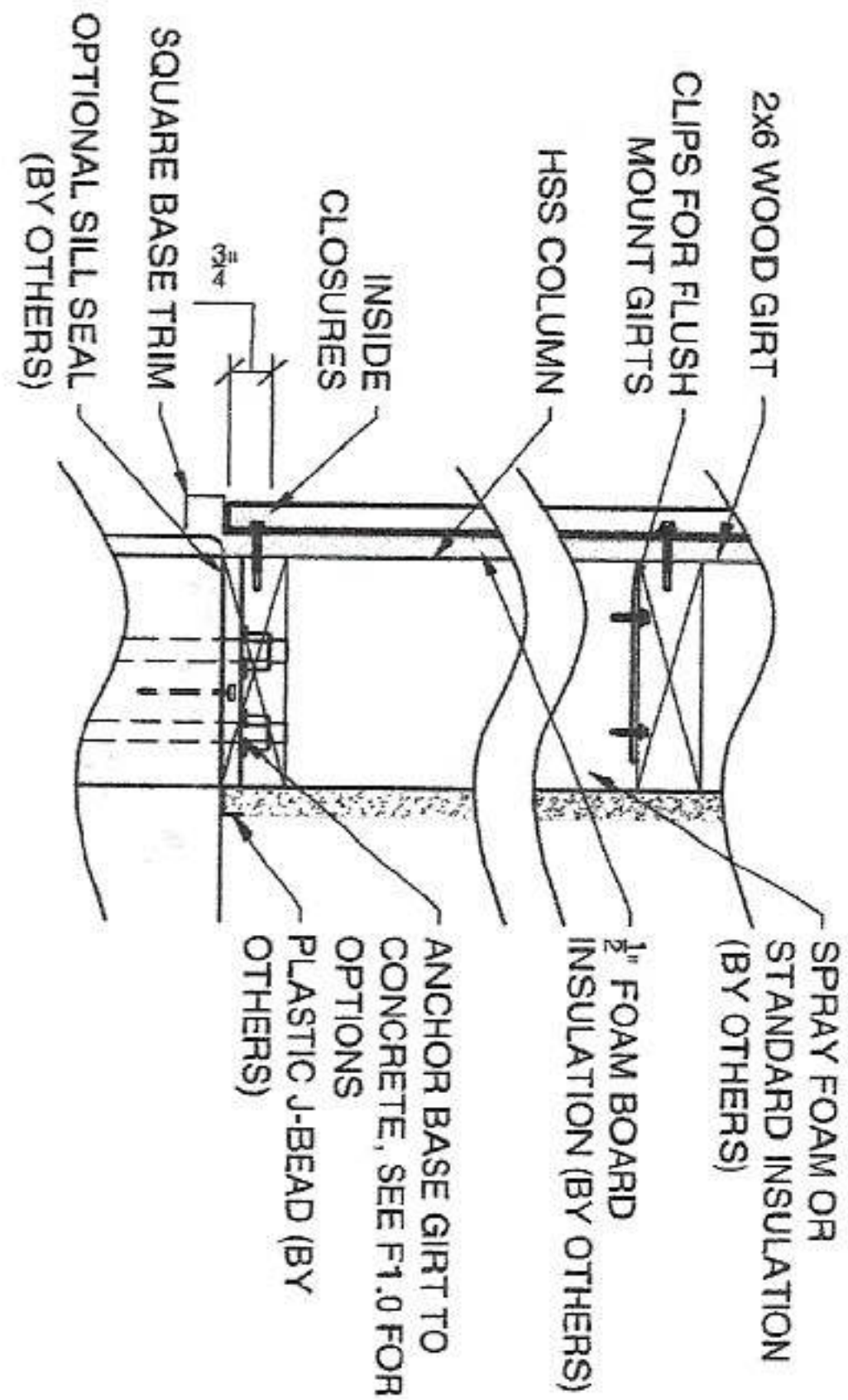
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SHEET
E4.1

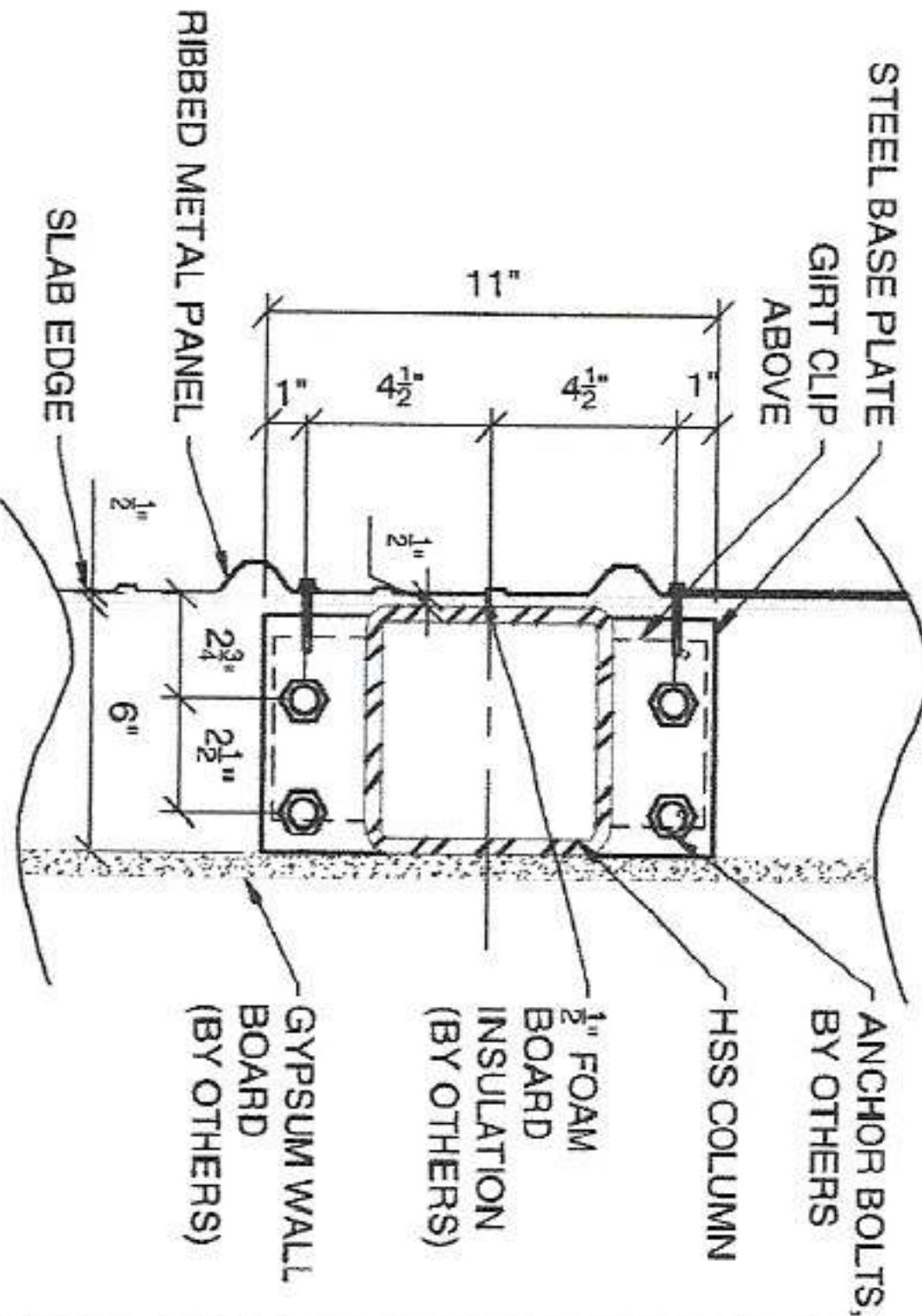


QUANTITY AND SIZE OF BOLTS PER SHOP DRAWINGS

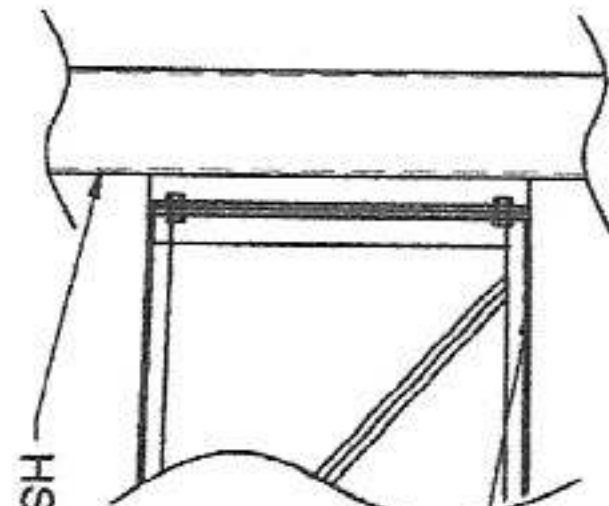
7 TRUSS COLUMN CONNECTION
SCALE: NTS



4 COLUMN BASEPLATE DETAIL
SCALE: NTS

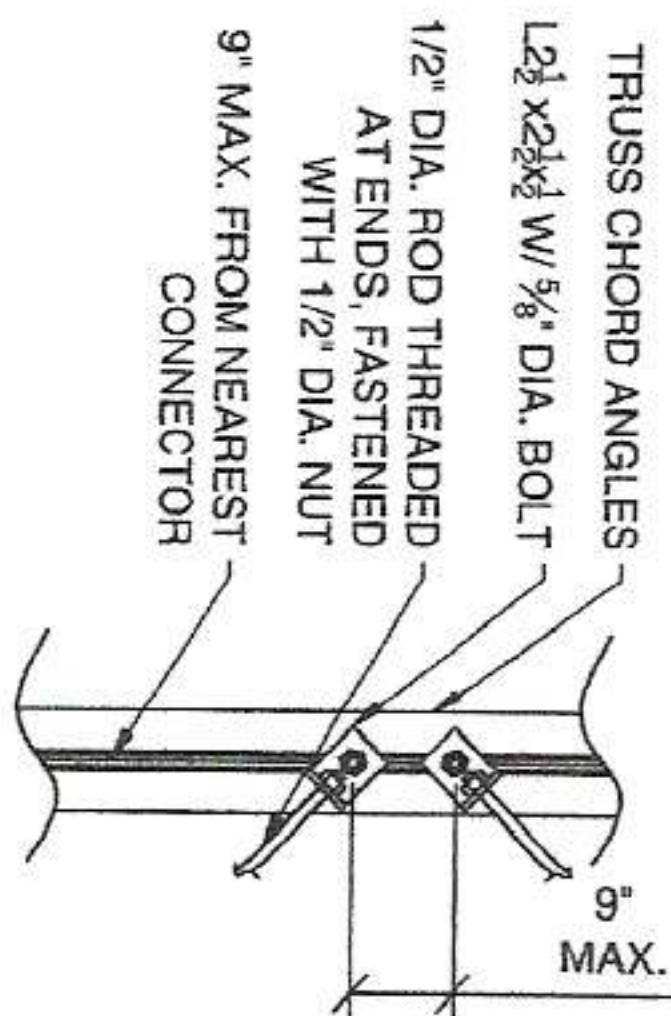


1 SIDEWALL COLUMN BASEPLATE (STD)
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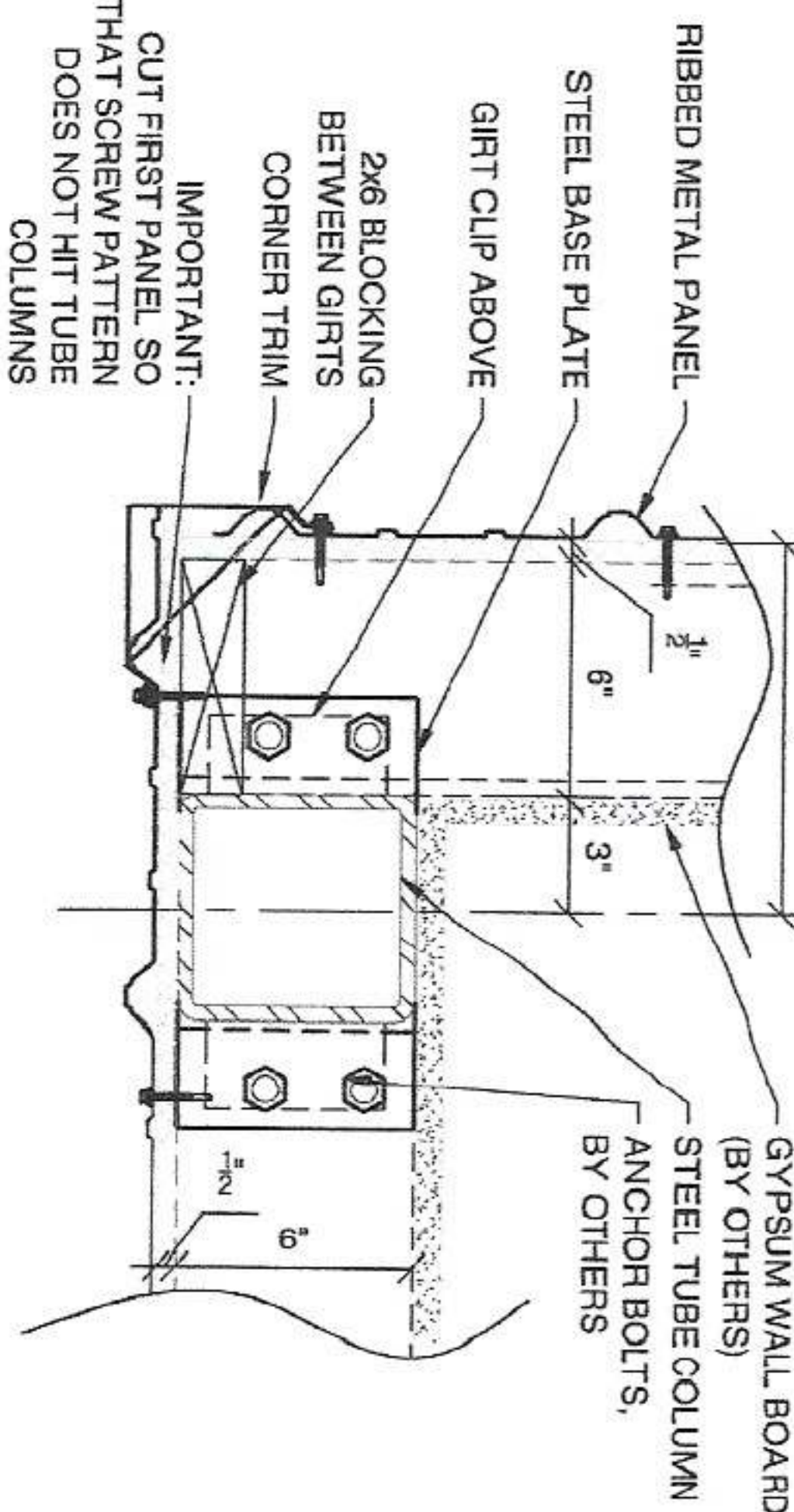


DOUBLE ANGLE TRUSS CONNECTION BOLT W/ (4) 5/8" DIA. BOLTS TO SHOP WELDED CLIP

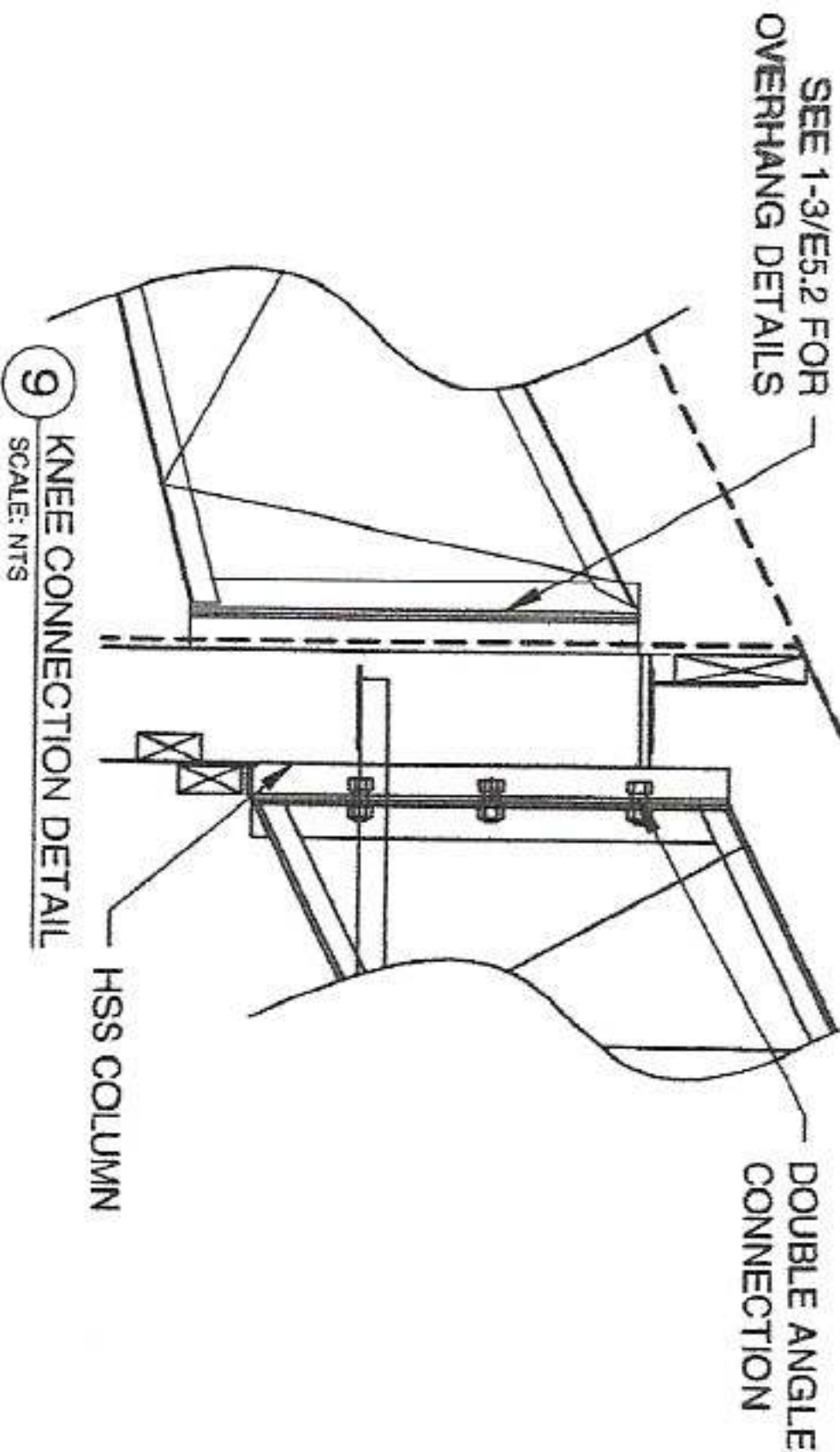
8 PORTAL HEADER CONNECTION
SCALE: NTS



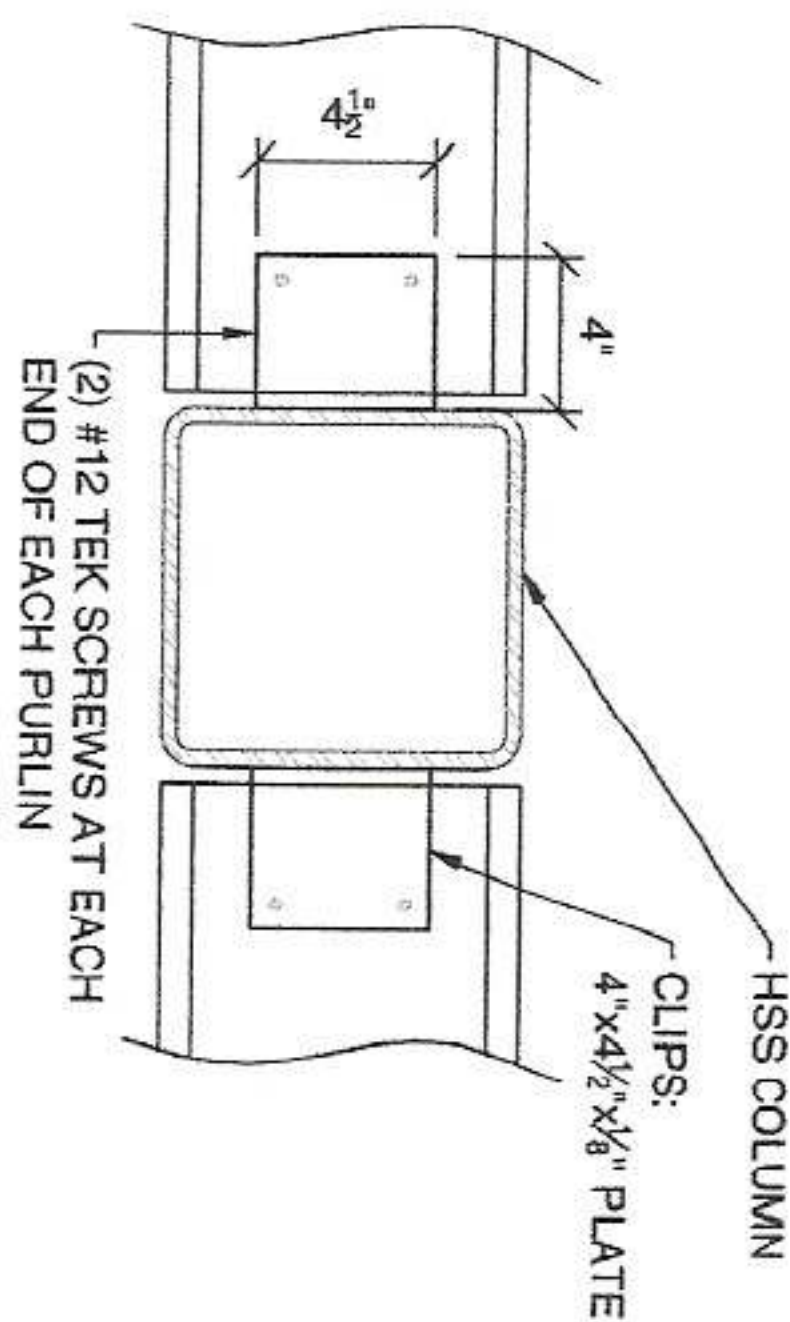
5 ROD BRACING CONNECTION
SCALE: NTS



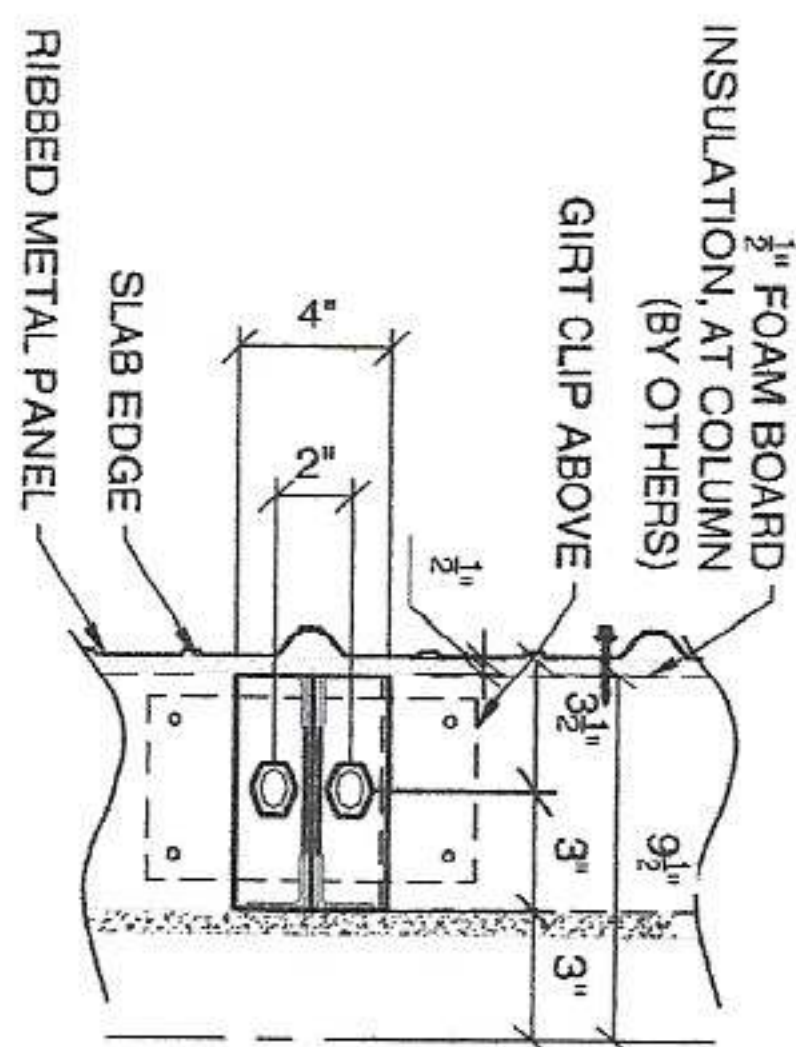
2 CORNER BASEPLATE DETAIL
SCALE: NTS



9 KNEE CONNECTION DETAIL
SCALE: NTS



6 GIRT CONNECTION
SCALE: NTS



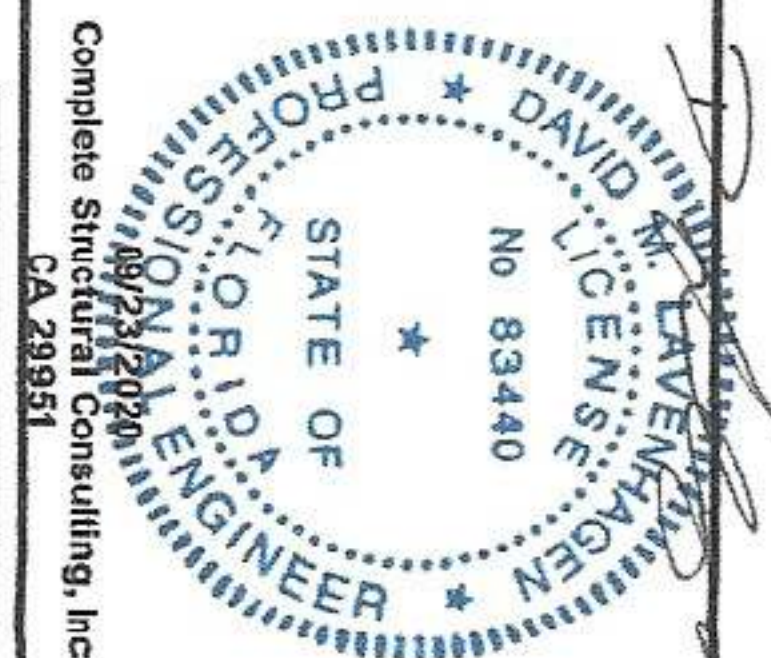
3 ENDWALL COLUMN BASEPLATE (STD)
SCALE: NTS



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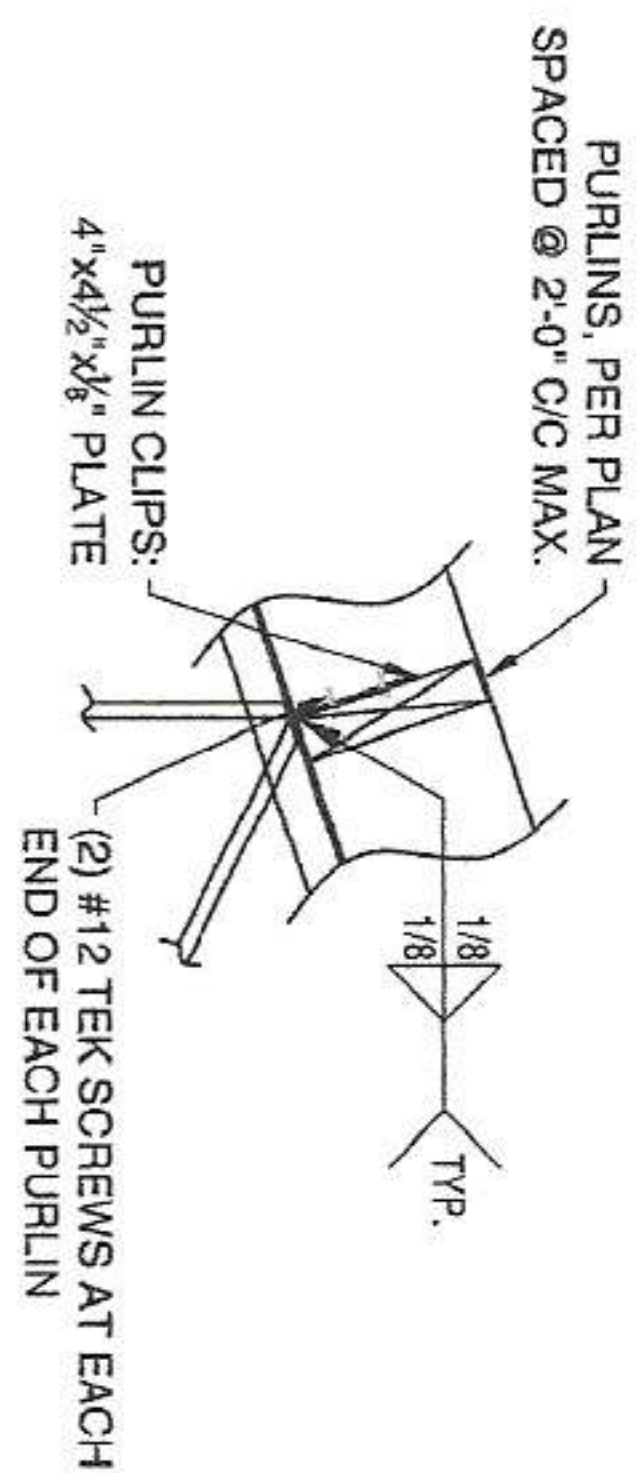
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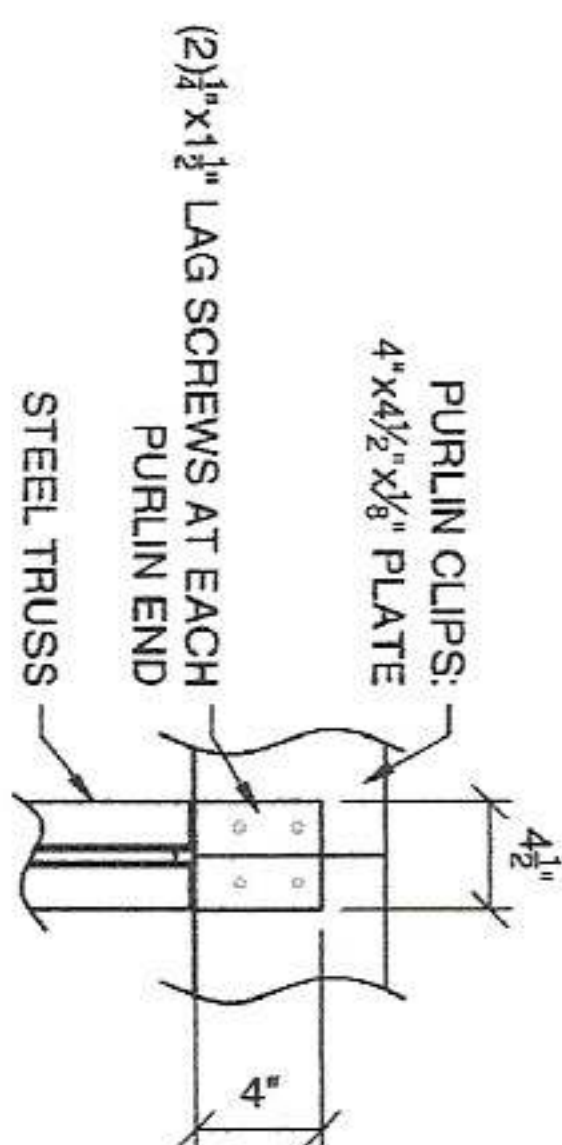
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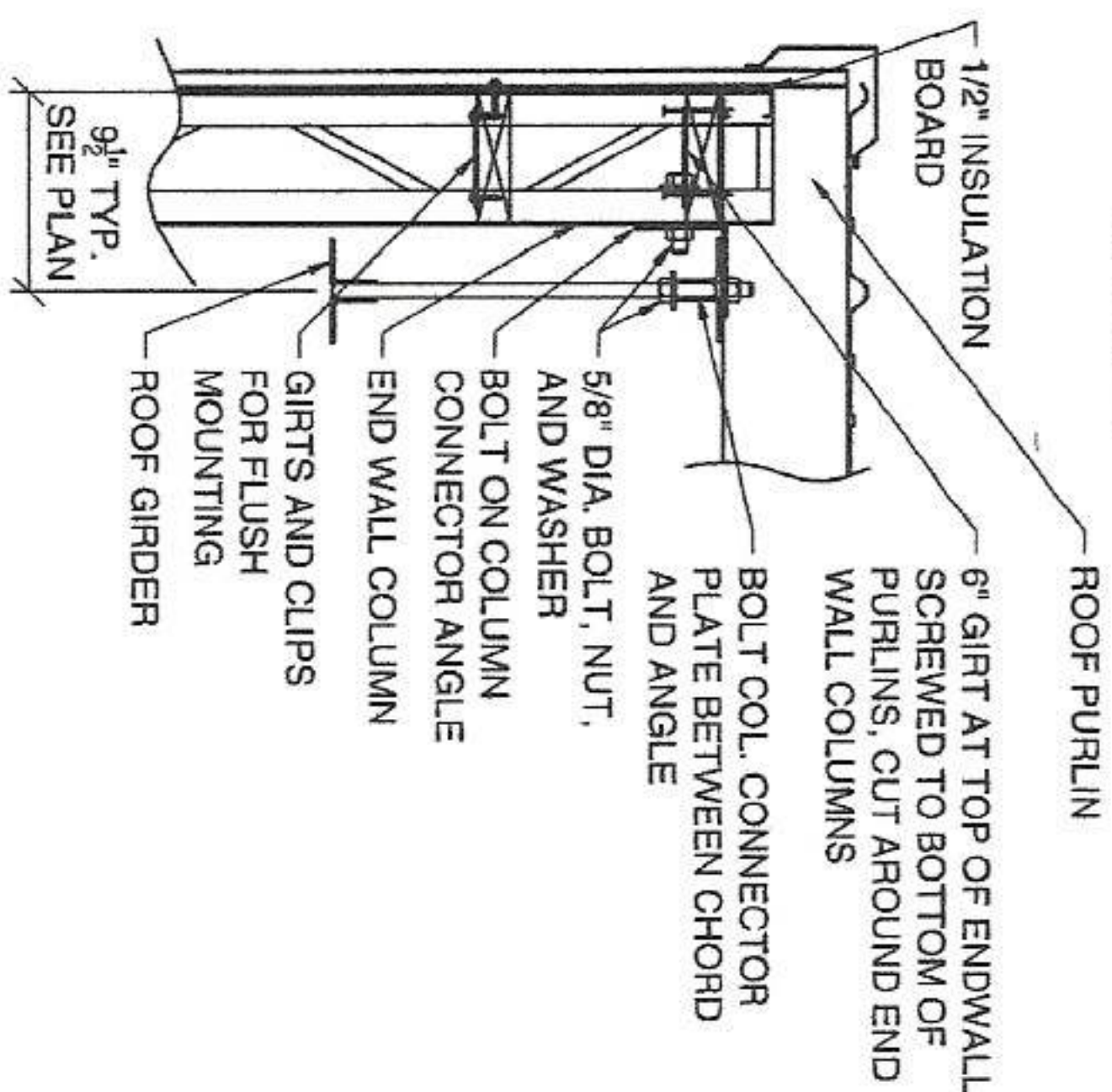
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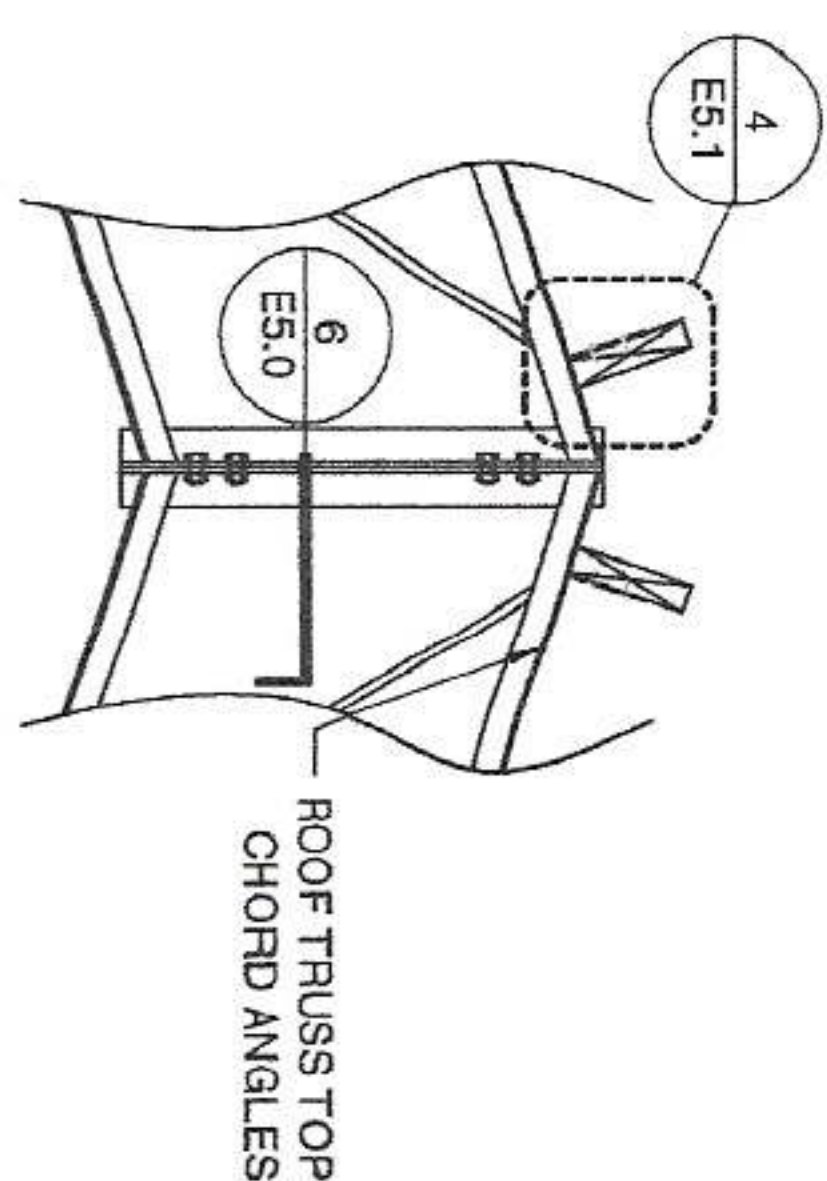
4 PURLIN CONNECTION
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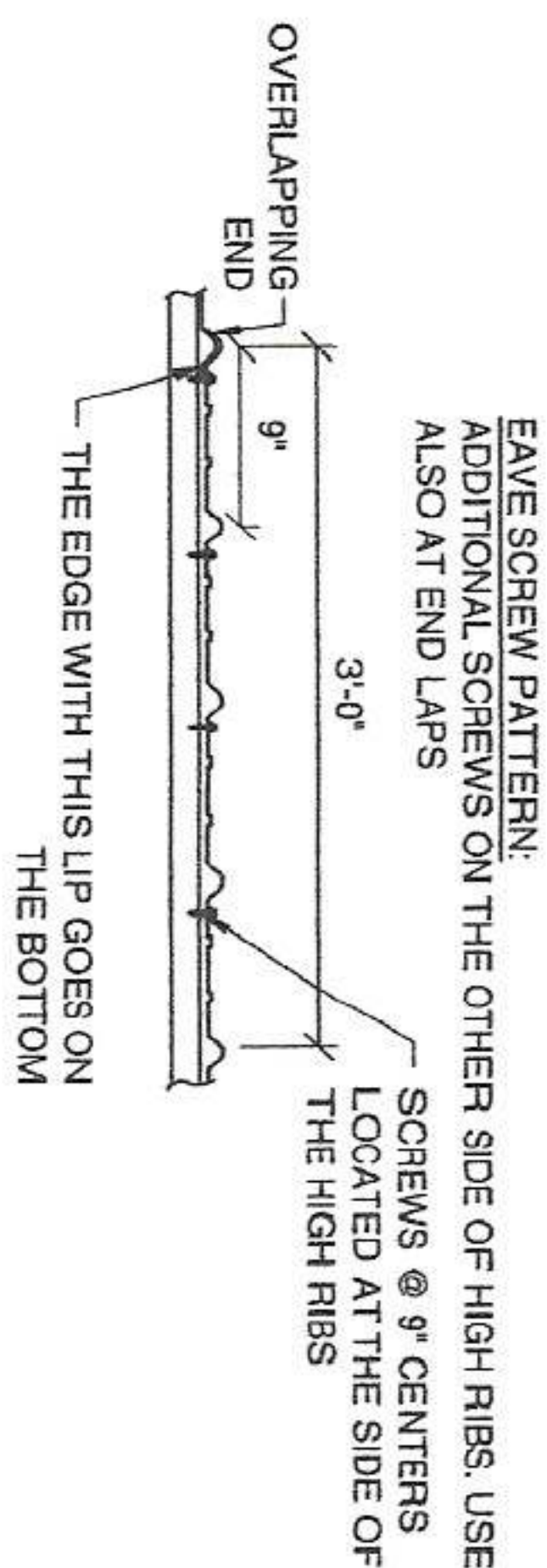
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6 END WALL COLUMN CONNECTION
SCALE: NTS

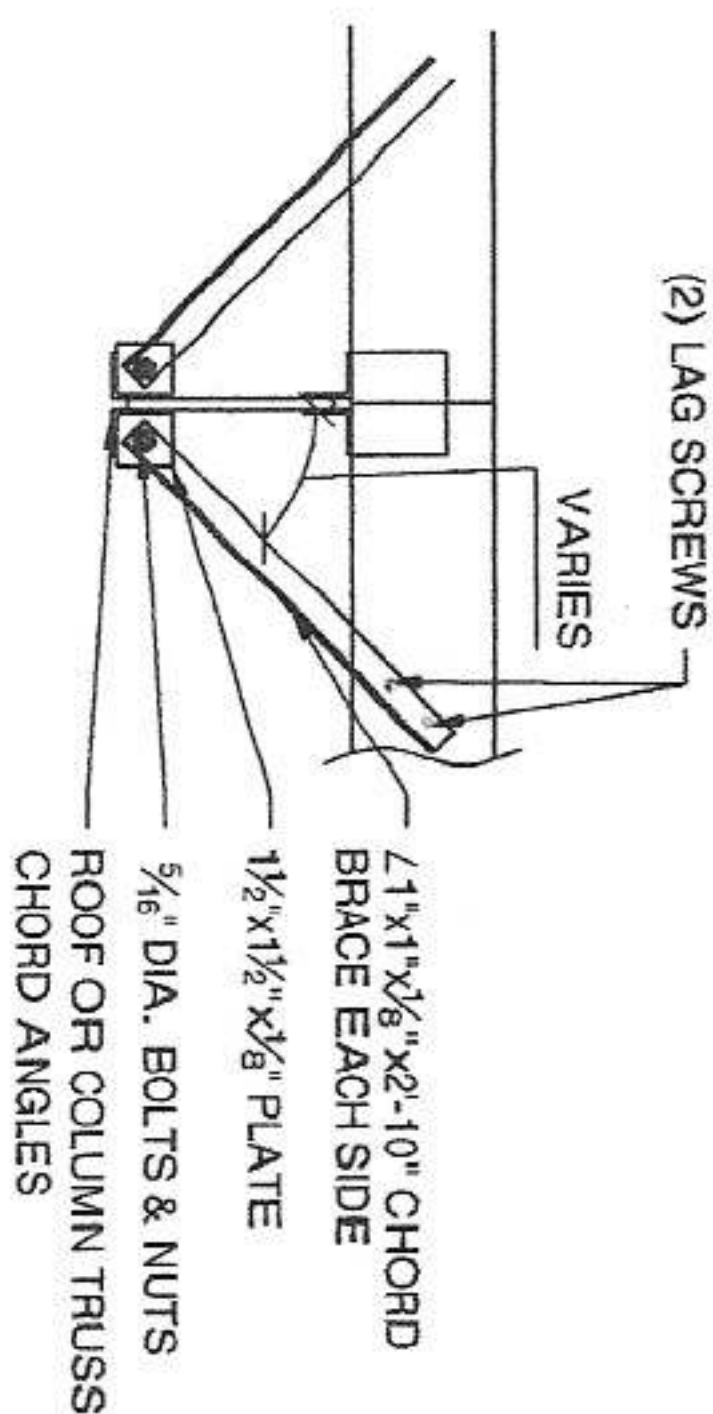


1 RIDGE CONNECTION DETAIL
SCALE: NTS



2 STANDARD SHEET METAL CONNECTION
SCALE: NTS

NOTES:
1. BRACE AT LOCATIONS SHOWN ON TRUSS SECTIONS
2. WHERE BRACES ARE CROWDED BY DOOR, FIELD OUT ANGLE TO PLACE THE END AS CLOSE TO THE DOOR JAMB AS POSSIBLE

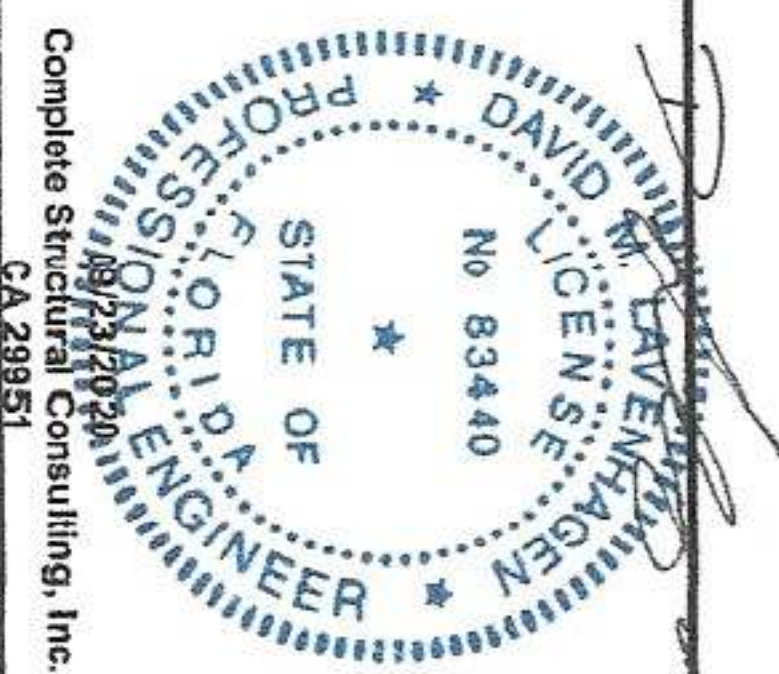


3 CHORD BRACE DETAIL
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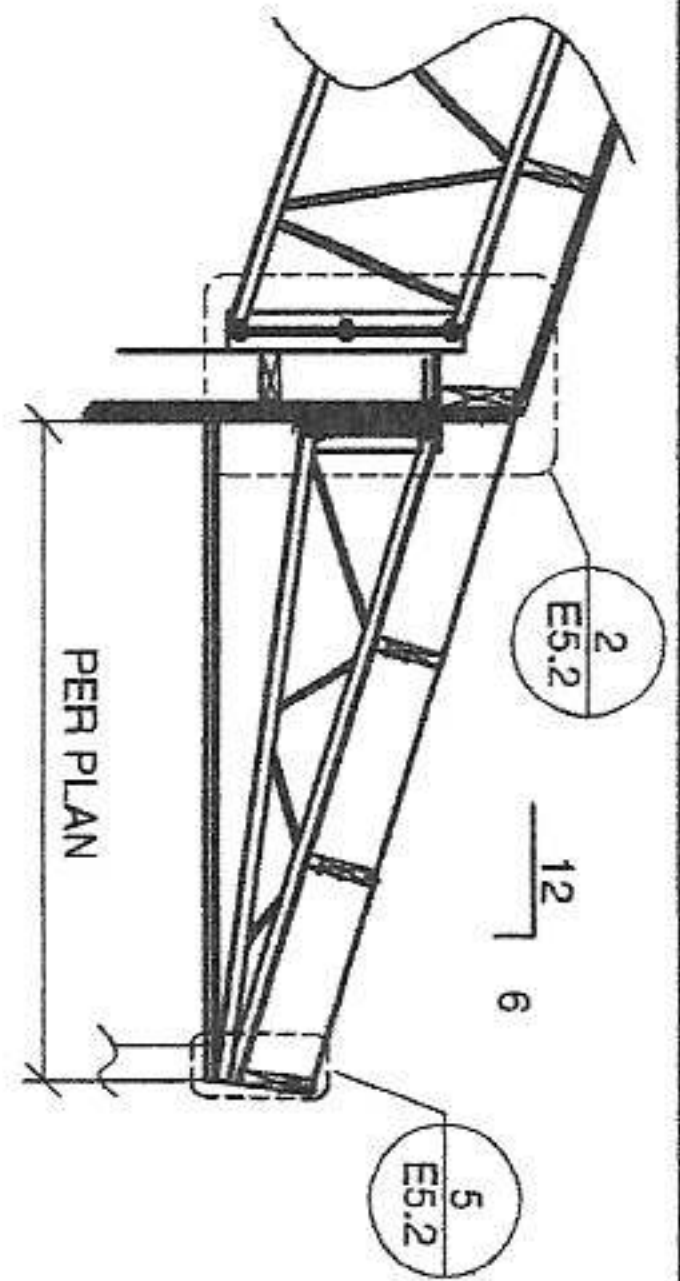
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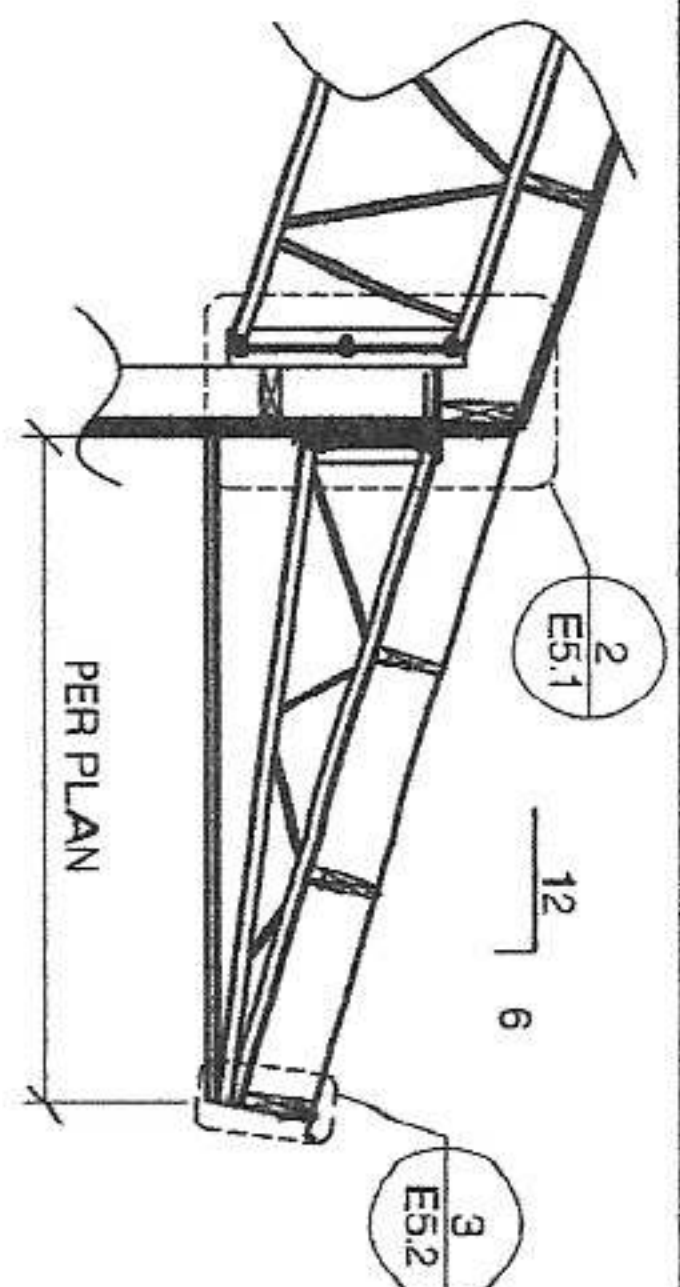
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E5.1



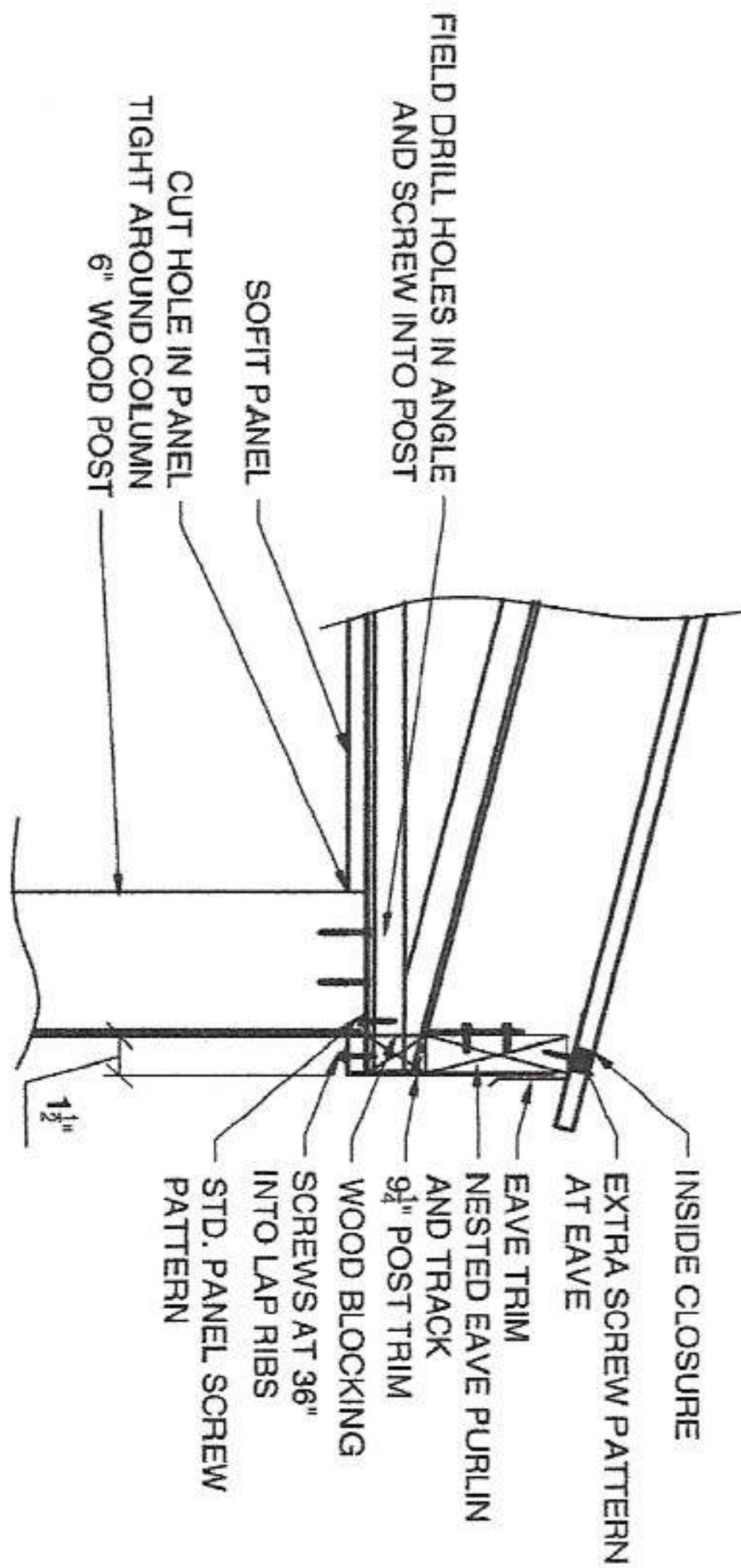
GENERAL NOTE:
INSTALL WALL PANELS
BEFORE OVERHANG TRUSSES

4 OVERHANG DETAIL - WITH WOOD POST
SCALE: N.T.S.

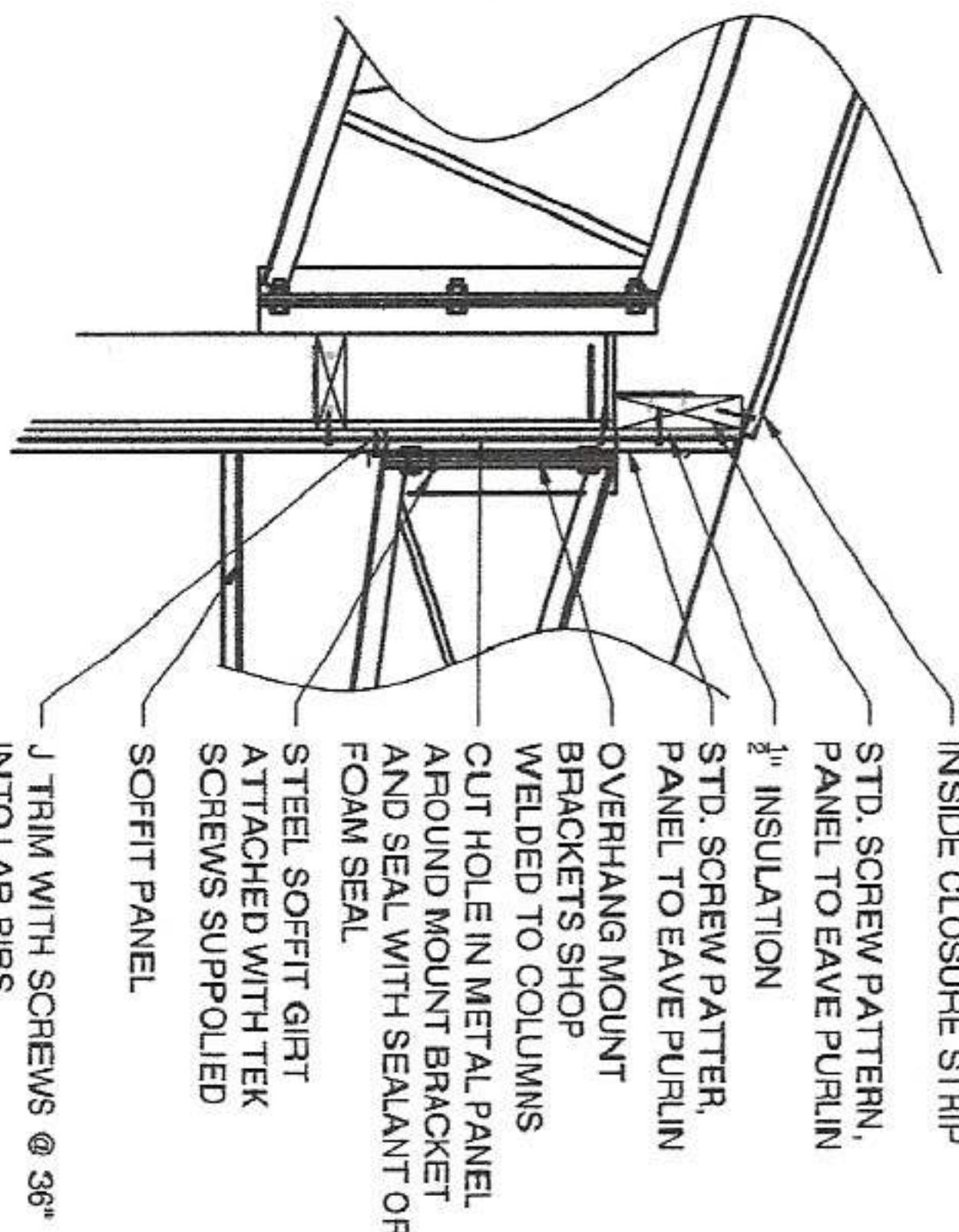


GENERAL NOTE:
INSTALL WALL PANELS
BEFORE OVERHANG TRUSSES

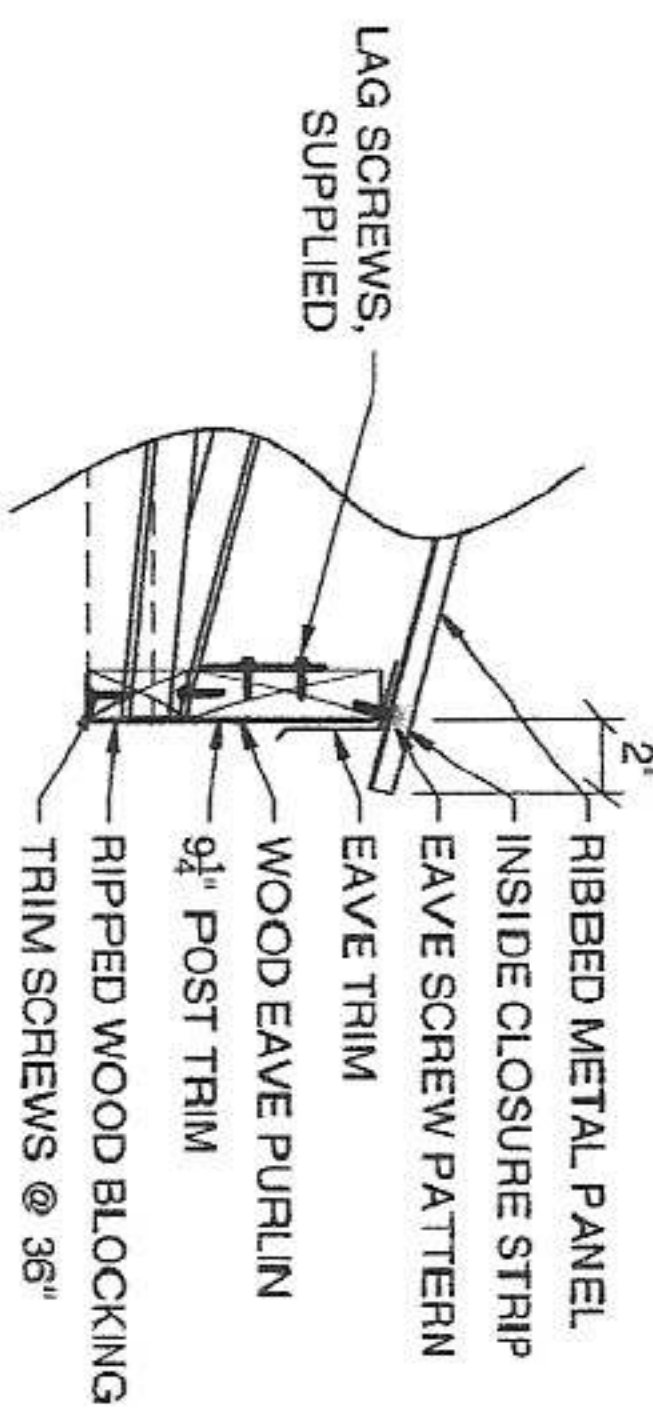
1 OVERHANG DETAIL
SCALE: N.T.S.



5 TRUSS CONNECTION DETAIL
SCALE: N.T.S.



2 OVERHANG DETAIL
SCALE: N.T.S.



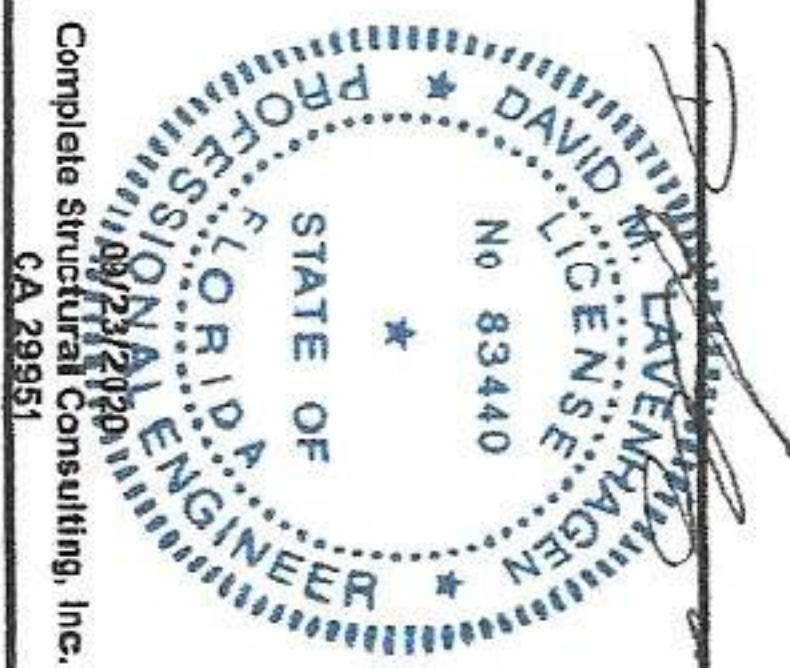
3 OVERHANG EAVE DETAIL
SCALE: N.T.S.



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E5.2