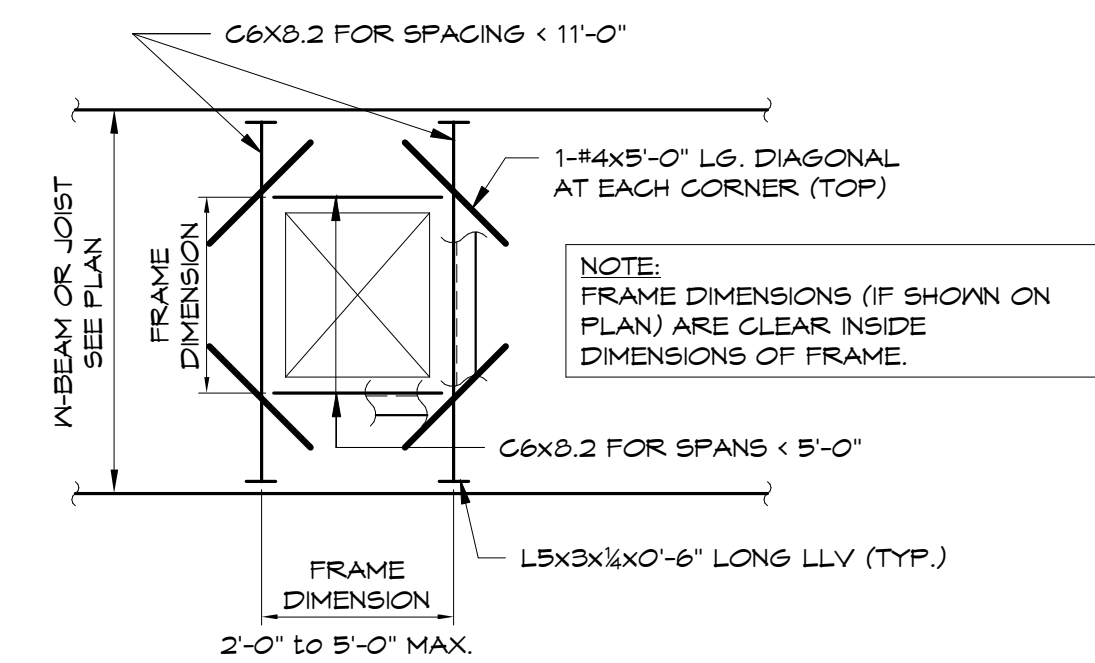


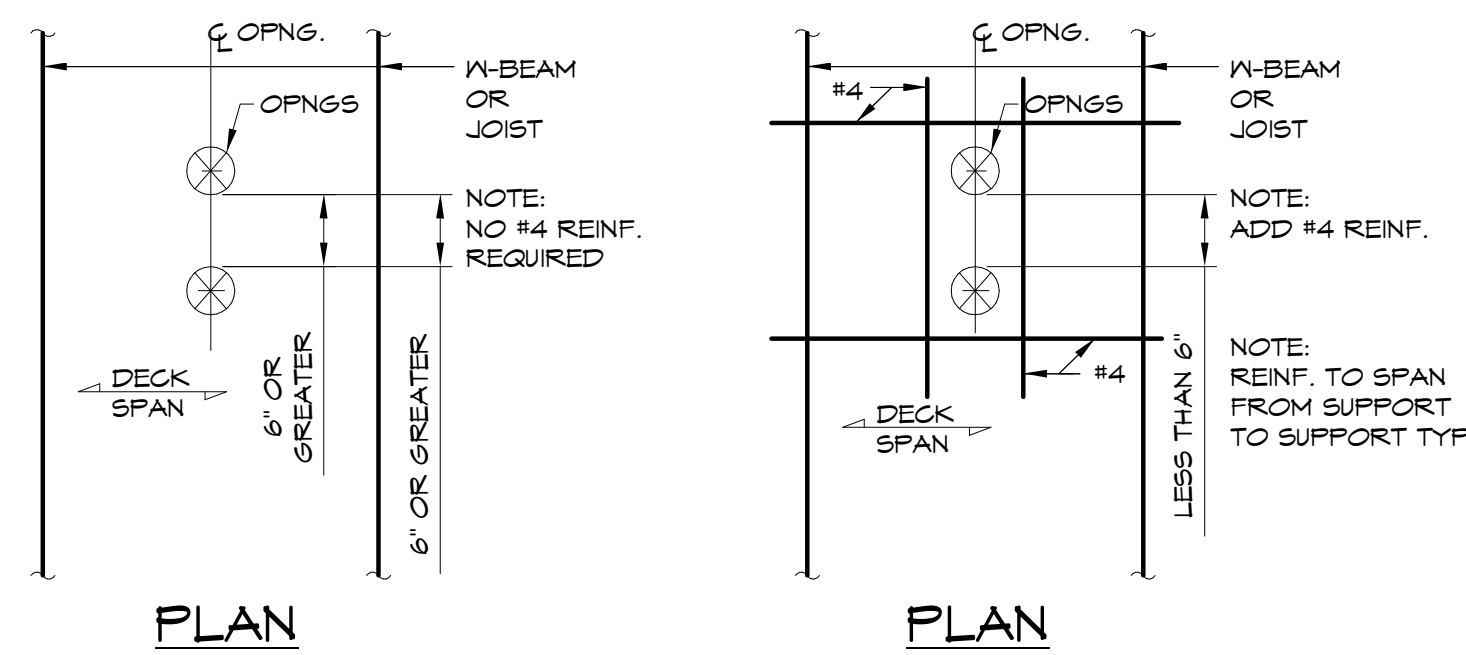
**FLOOR OPENING IN CONCRETE ON STEEL DECK**

1/4" = 1'-0"



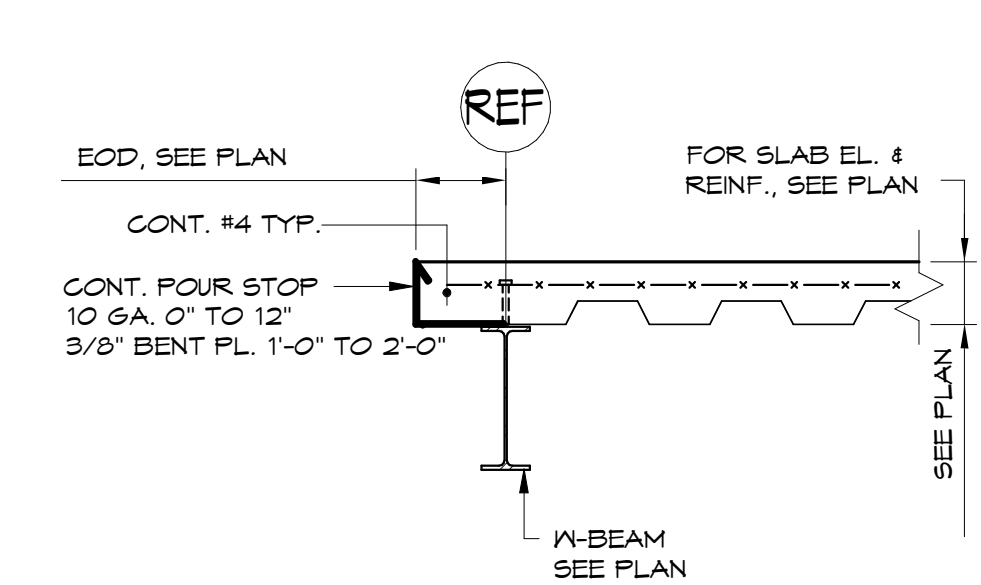
**TYPICAL FLOOR OPENING FRAMING DETAIL**

1/2" = 1'-0"



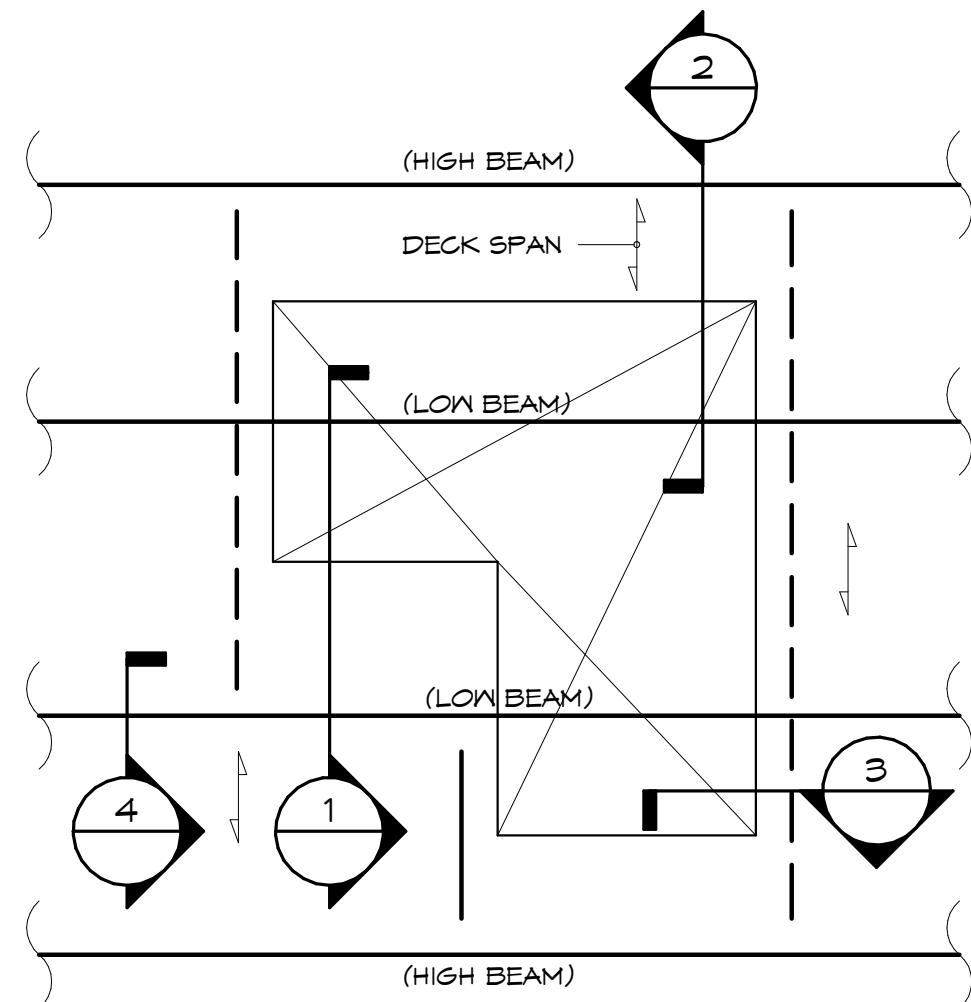
**TYPICAL SLEEVE OPENING REINFORCING DETAIL IN CONCRETE ON STEEL DECK**

3/4" = 1'-0"



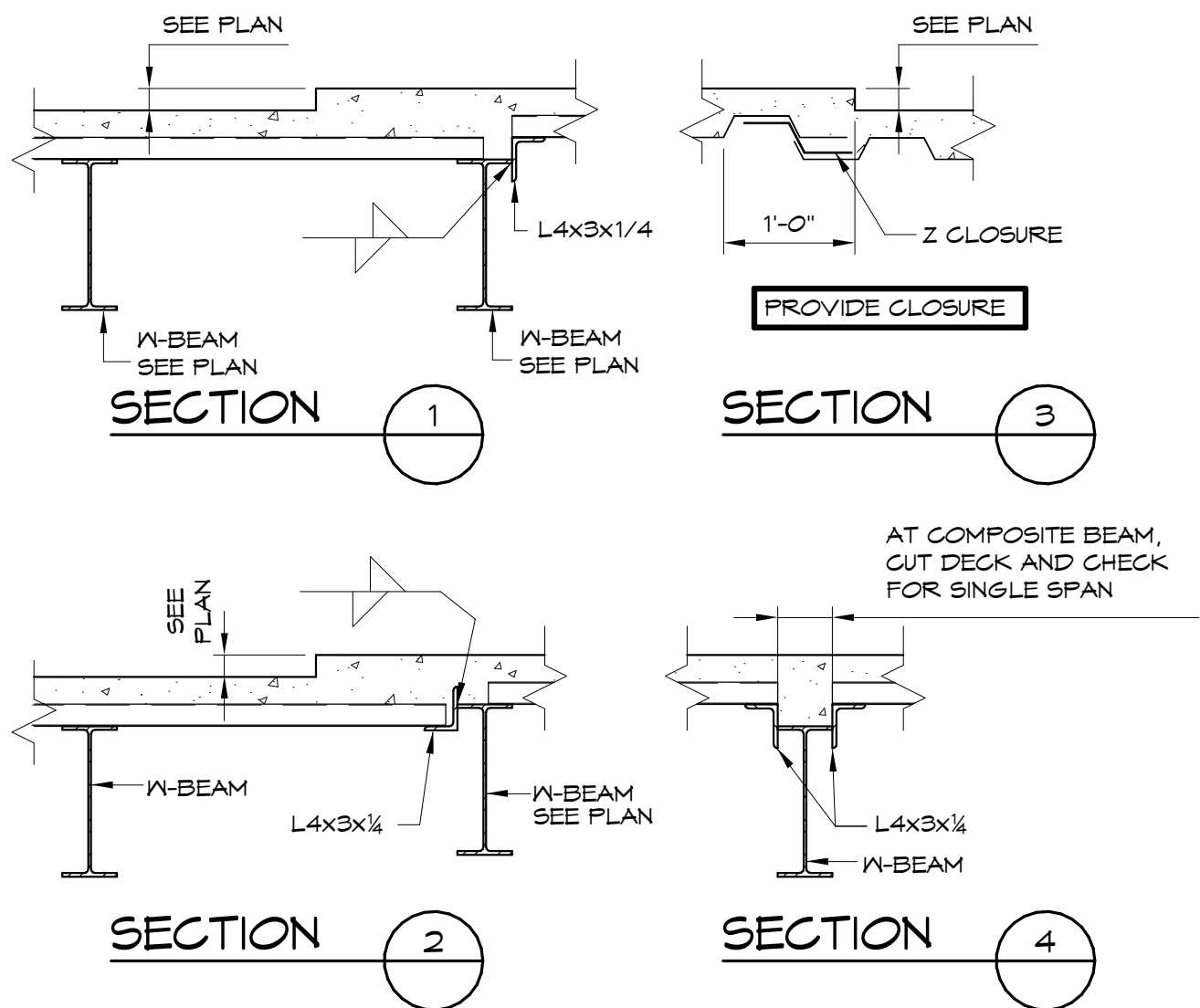
**TYPICAL CONCRETE FLOOR EDGE DETAIL (COMPOSITE DECK)**

1/2" = 1'-0"



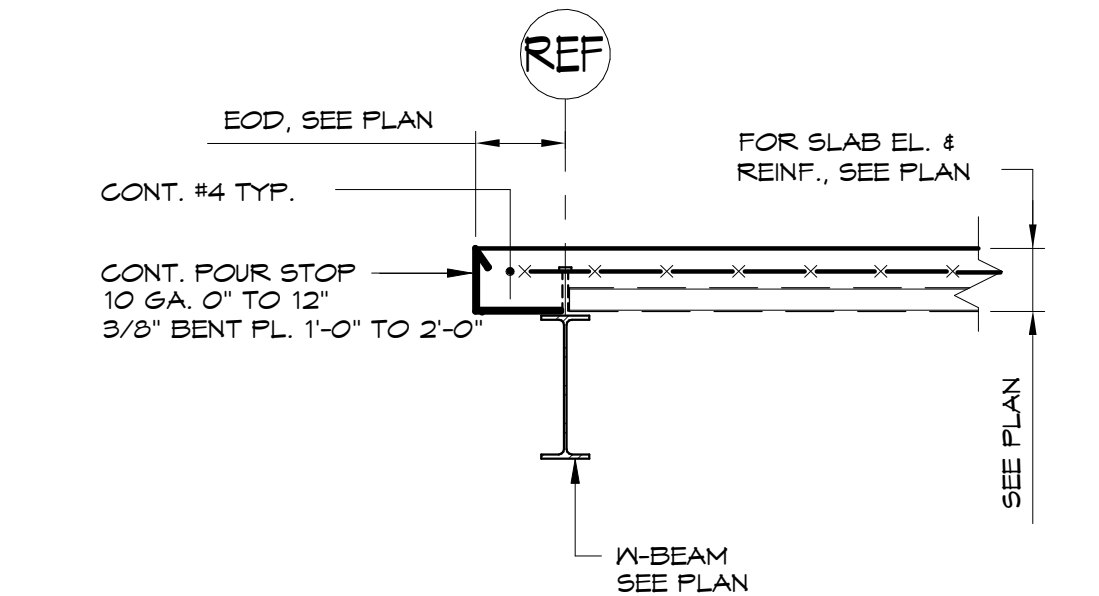
**DETAILS OF STEEL DECK AT CHANGE IN SLAB ELEVATION**

3/4" = 1'-0"



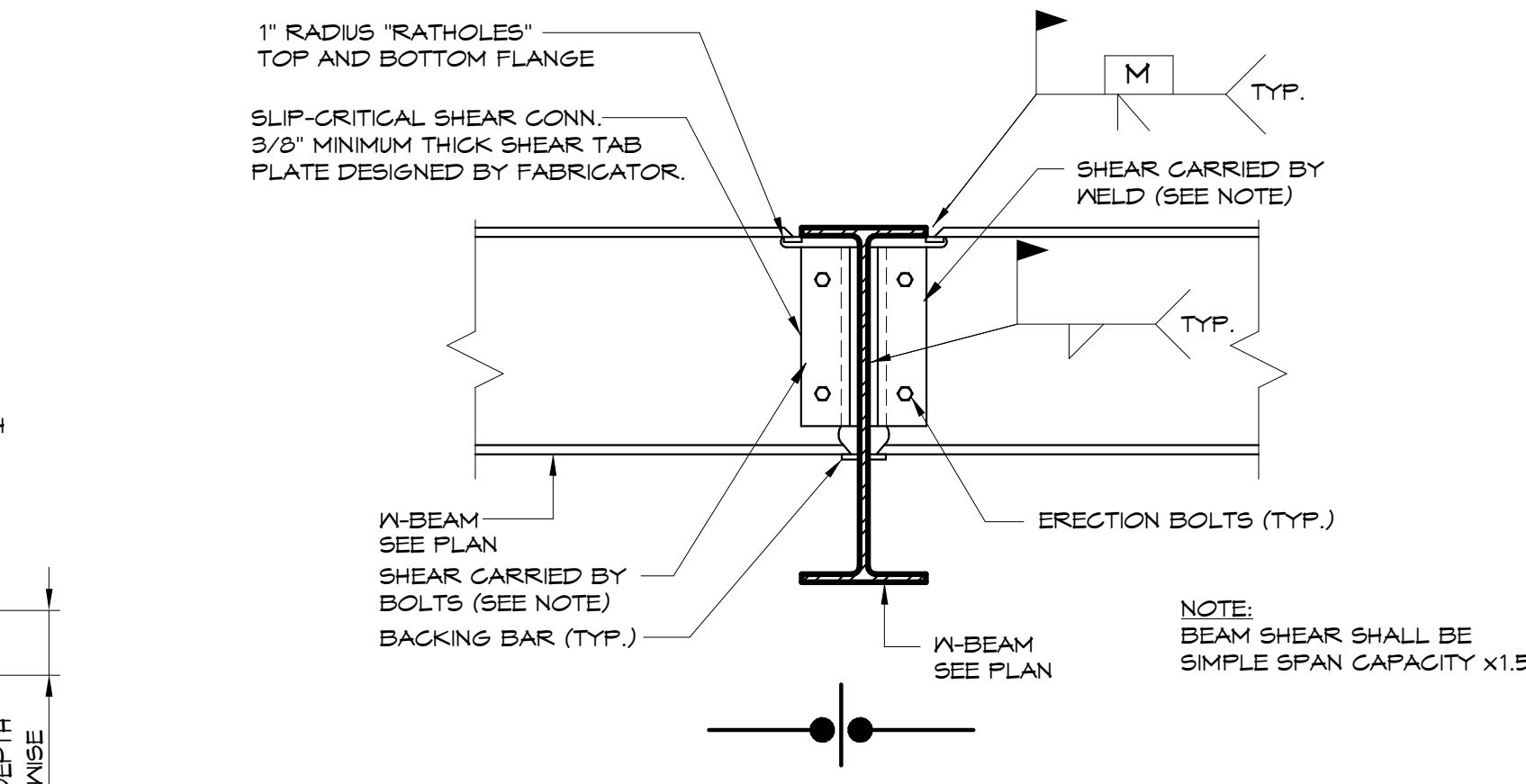
**TYPICAL SHEAR STUD DETAIL**

3/4" = 1'-0"



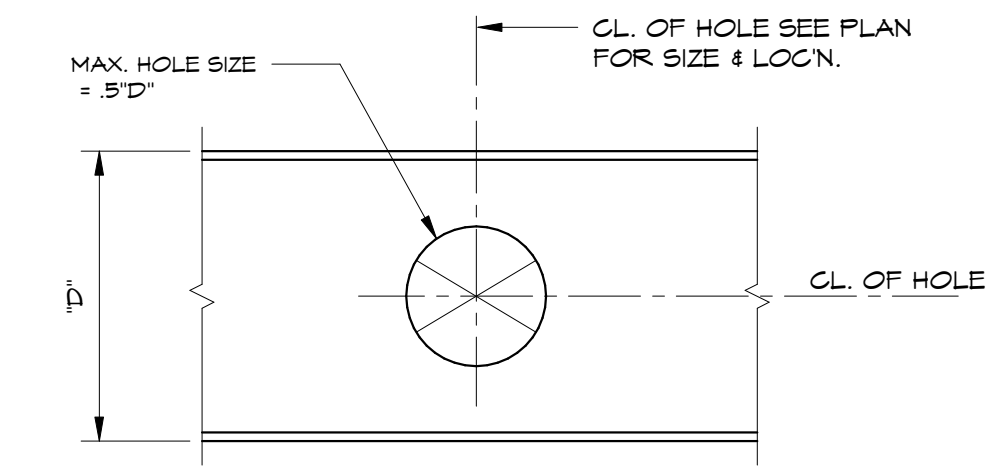
**TYPICAL CONCRETE FLOOR EDGE DETAIL (COMPOSITE DECK)**

1/2" = 1'-0"



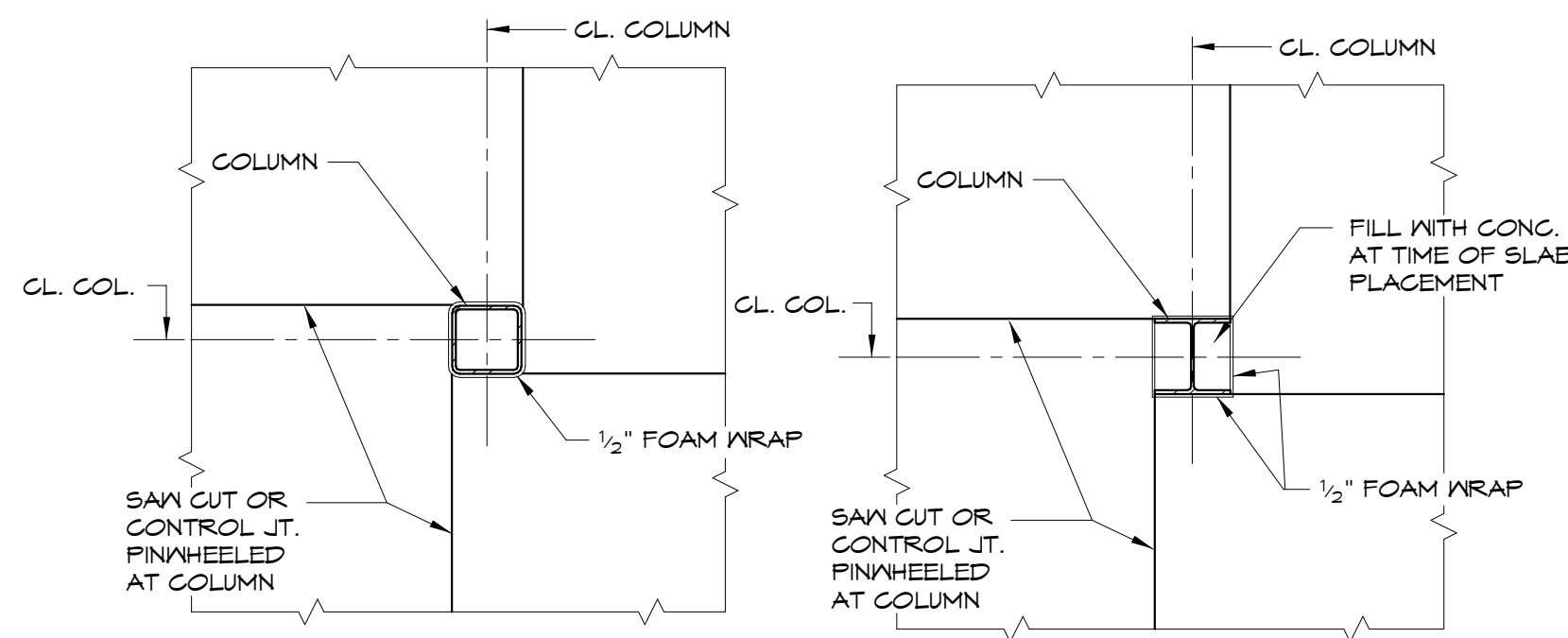
**BEAM TO BEAM TYPICAL MOMENT CONNECTION**

3/4" = 1'-0"



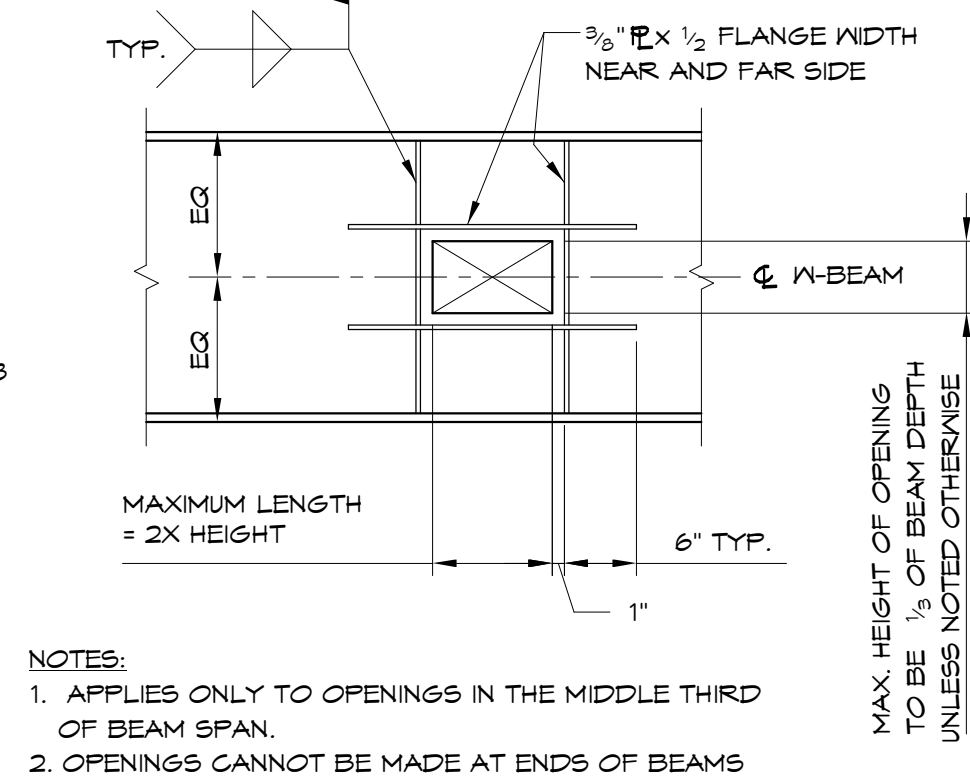
**HOLE THRU BEAM WEB DETAIL**

3/4" = 1'-0"



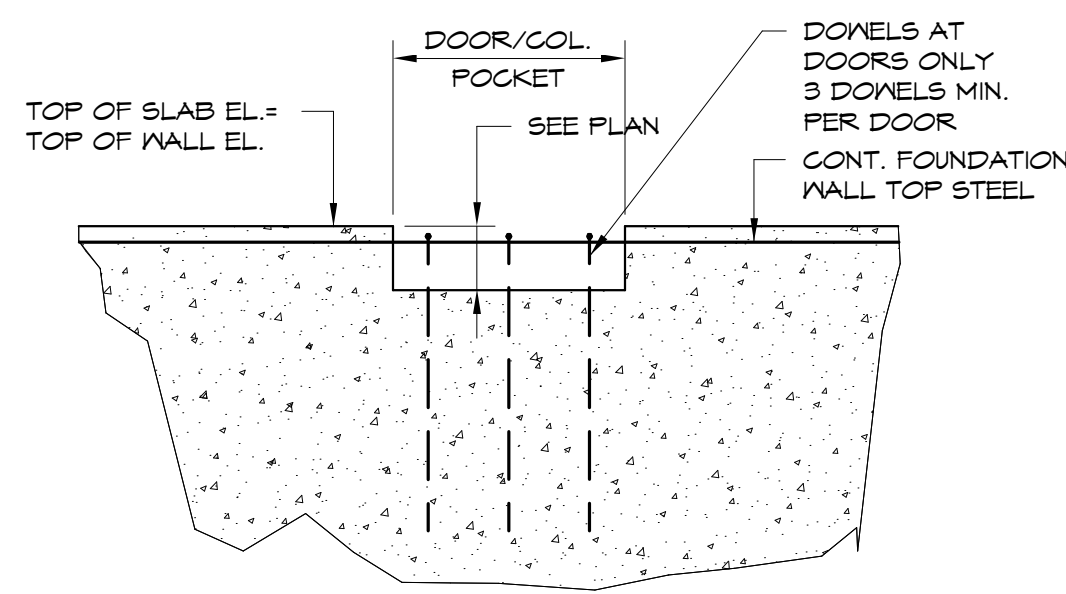
**HSS COLUMN ISOLATION JOINT DETAIL AT COLUMNS**

1/2" = 1'-0"



**BEAM WEB OPENING REINFORCING DETAIL**

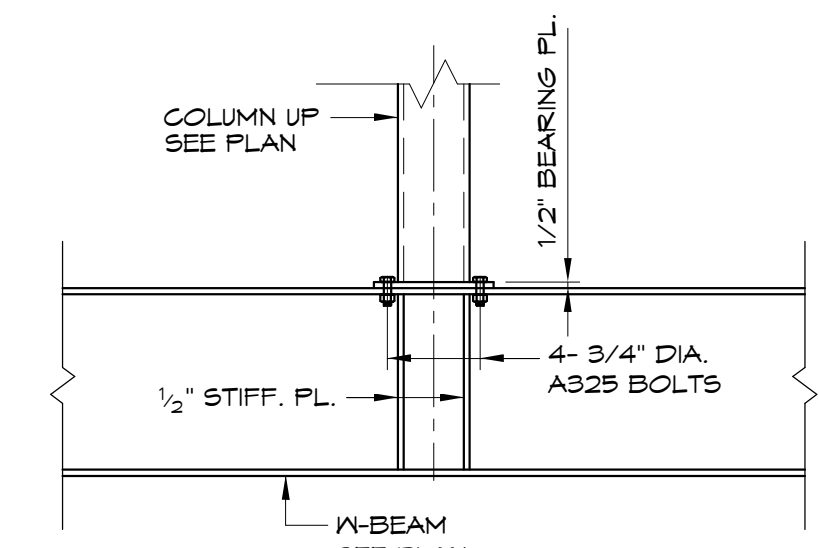
3/4" = 1'-0"



**TYPICAL ELEVATION AT DOORS**

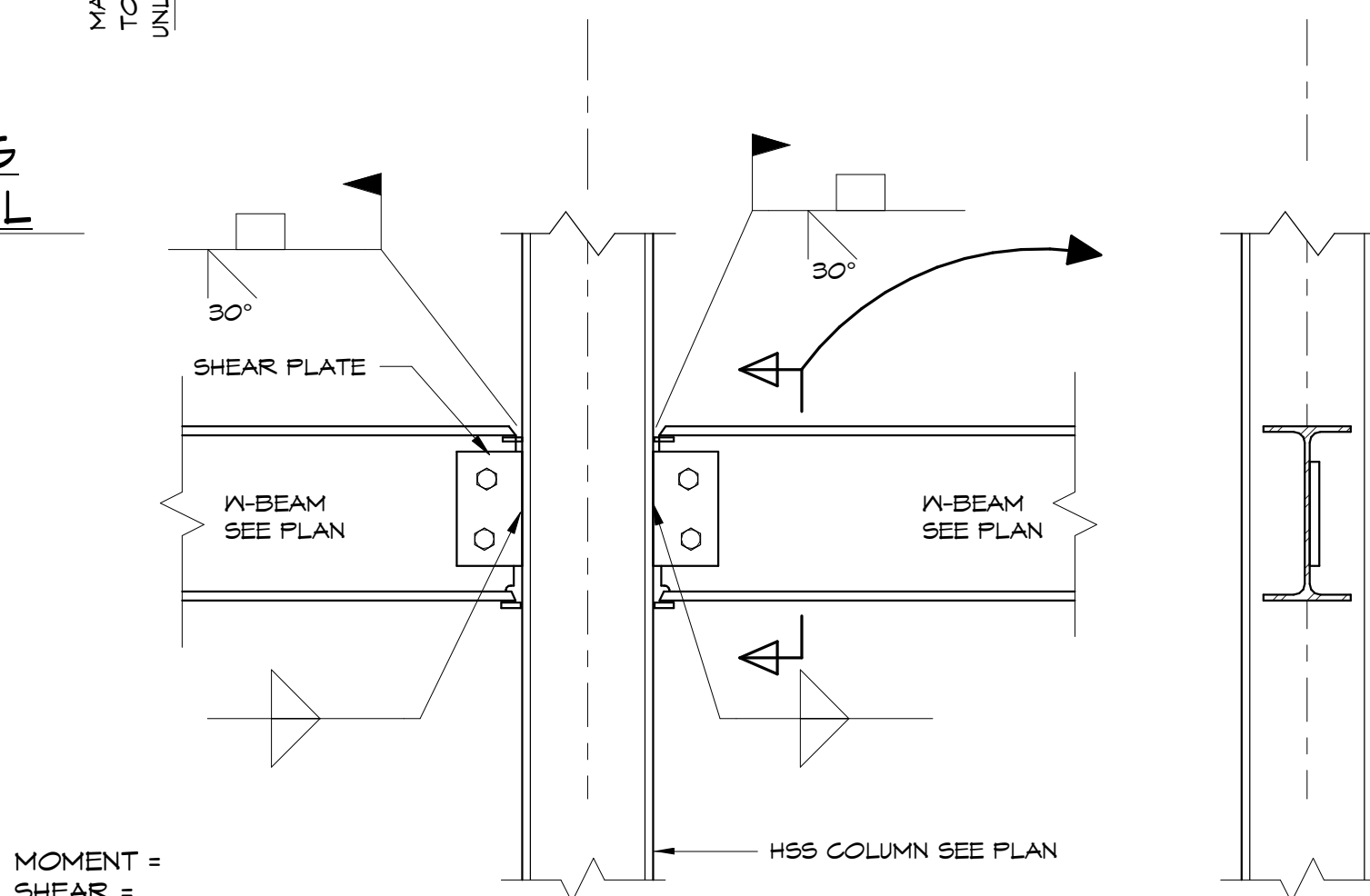
NOTE: REFER TO TYPICAL WALL SECTION AT DOORWAY

1/2" = 1'-0"



**TYPICAL COLUMN UP DETAIL**

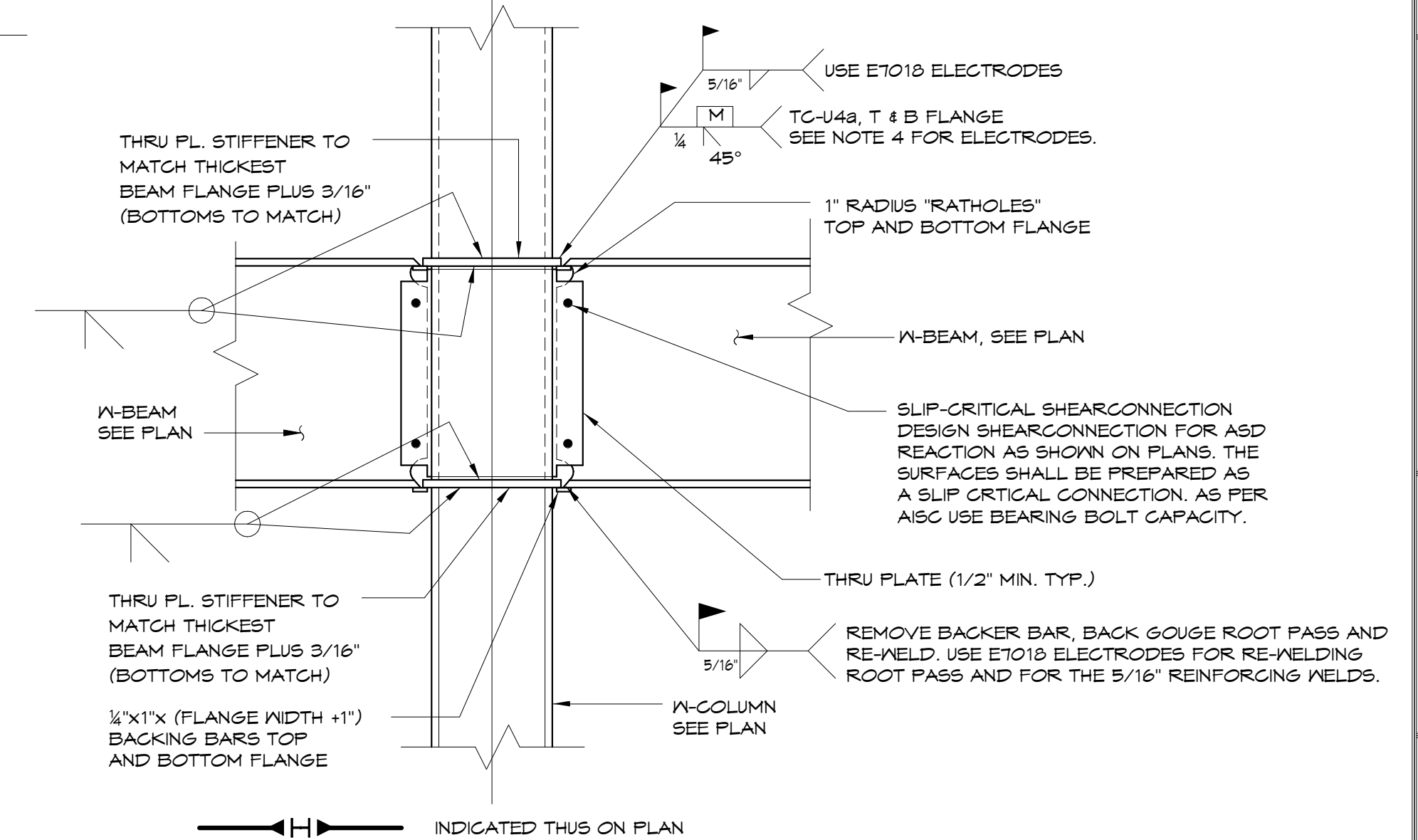
3/4" = 1'-0"



**HSS COLUMN GRAVITY MOMENT CONNECTION DETAIL**

- NOTES:
- NO SHOP PRIMER WITHIN 3 INCHES OF FIELD WELDS. REMOVE SHOP PRIMER (INCLUDING OVER-SPRAY) IN THE FIELD PRIOR TO WELDING IF NECESSARY.
  - NO SHOP PRIMER AT "FAYING" SURFACES OF SLIP-CRITICAL SHEAR CONNECTIONS. PREPARE "FAYING" SURFACES IN THE FIELD PRIOR TO ERECTION TO SATISFY CLASS "A" AS DEFINED IN AISCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
  - THE FABRICATOR SHALL TAKE EXPECTED WELD SHRINKAGE INTO ACCOUNT WHEN DETAILING THE BEAM LENGTHS IN CONTINUOUS RUNS.
  - FILLER METAL USED IN THE FULL PENETRATION WELDS SHALL HAVE A MINIMUM CHARPY V-NOTCH VALUE OF 20 FT-LBS.

1 1/2" = 1'-0"



**BEAM/RECTANGULAR OR ROUND COLUMN SEISMIC MOMENT CONNECTION**

- NOTES:
- NO SHOP PRIMER WITHIN 3 INCHES OF FIELD WELDS. REMOVE SHOP PRIMER (INCLUDING OVER-SPRAY) IN THE FIELD PRIOR TO WELDING IF NECESSARY.
  - NO SHOP PRIMER AT "FAYING" SURFACES OF SLIP-CRITICAL SHEAR CONNECTIONS. PREPARE "FAYING" SURFACES IN THE FIELD PRIOR TO ERECTION TO SATISFY CLASS "A" AS DEFINED IN AISCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
  - THE FABRICATOR SHALL TAKE EXPECTED WELD SHRINKAGE INTO ACCOUNT WHEN DETAILING THE BEAM LENGTHS IN CONTINUOUS RUNS.
  - FILLER METAL USED IN THE FULL PENETRATION WELDS SHALL HAVE A MINIMUM CHARPY V-NOTCH VALUE OF 20 FT-LBS.
  - THE MOMENT CONNECTION WELDS ARE TO BE CONSIDERED "PRE-QUALIFIED WELDED JOINTS". THEREFORE THE STEEL ERECTOR SHALL SUBMIT PRE-QUALIFIED JOINT WELDING PROCEDURES AND JOINT DETAILS AS PER AWS D11.1 CERTIFICATE OF COMPLIANCE FOR ALL THE ELECTRODES TO BE USED, AND WELDING CERTIFICATES FOR ALL THE WELDERS.

3/4" = 1'-0"

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|            |          |                            |
|------------|----------|----------------------------|
| Revisions: | 05/16/16 | FOUNDATION PERMIT          |
|            | 06/07/16 | 80% REVIEW DRAWINGS        |
|            | 06/24/16 | 100% STRUCTURAL DRAWINGS   |
|            | 07/20/16 | 100% CONSTRUCTION DRAWINGS |

Date: 04/19/16  
Scale: As indicated

**TYPICAL DETAILS**

**S203**