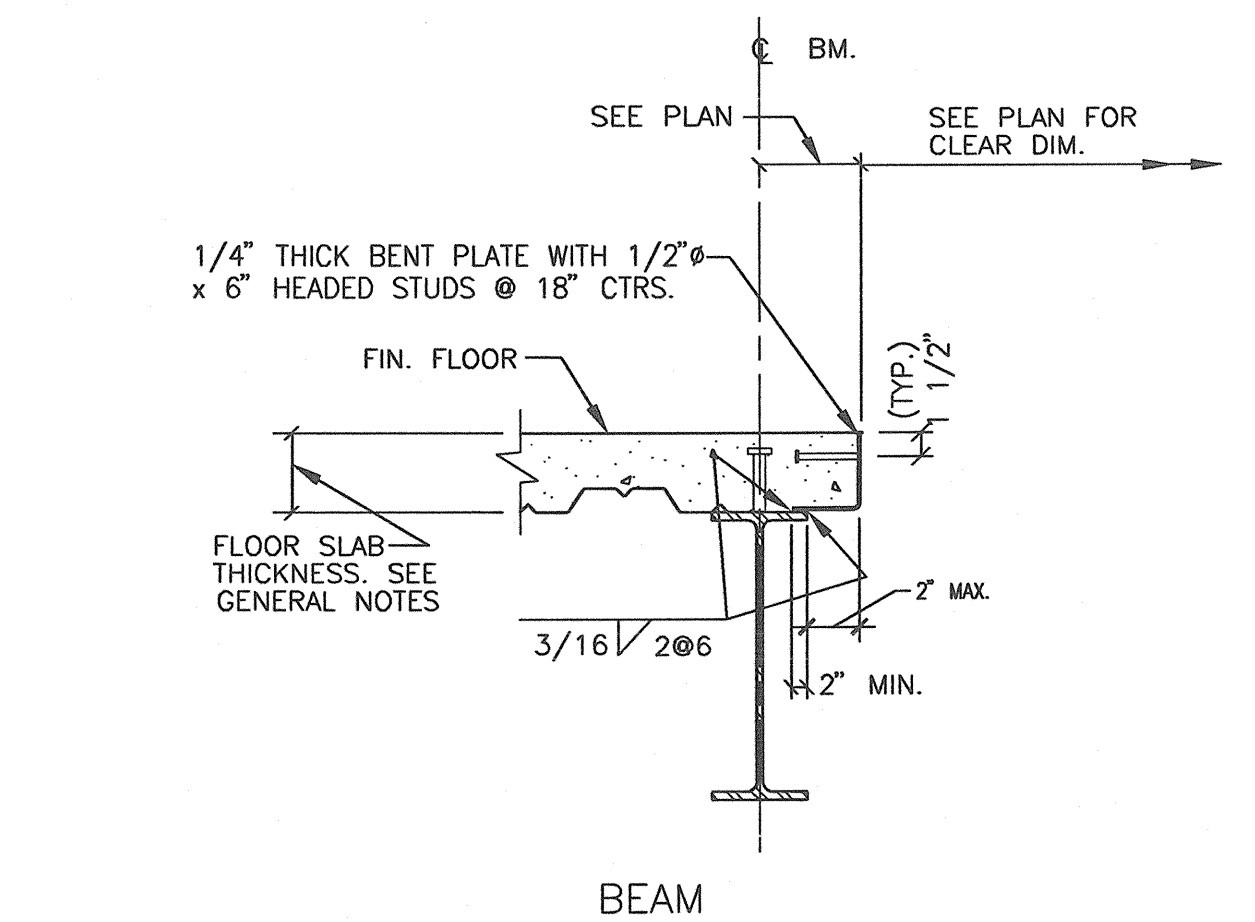


- NOTES:
1. PROVIDE CONTINUOUS ELEVATOR SILL ANGLE AT THRESHOLD OF ELEVATOR OPENING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

ELEVATOR SILL, COMPOSITE METAL DECK

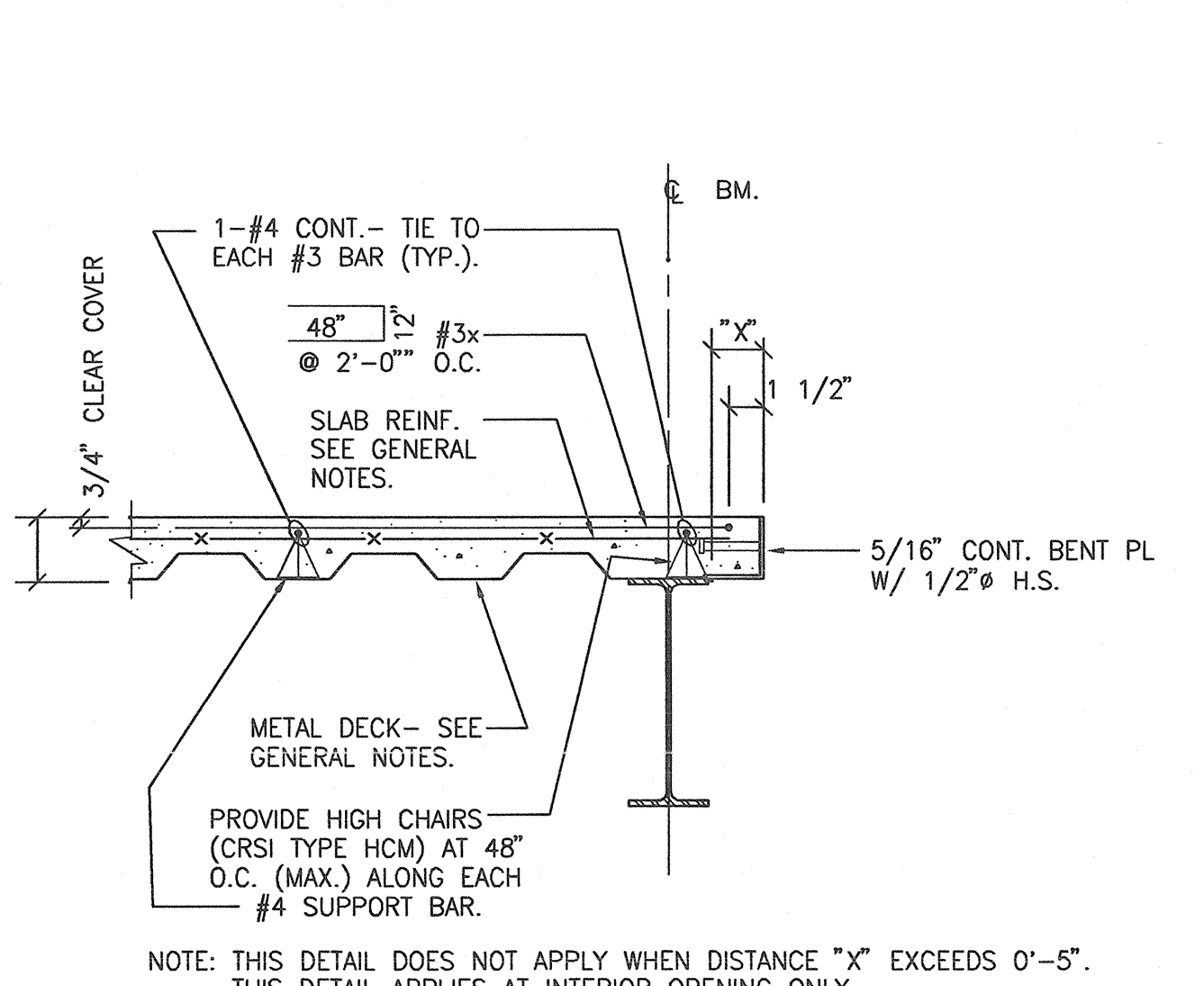
5 NONE TYPICAL DETAIL



- NOTE:
1. REFER TO STAIR SHOP DRAWINGS FOR CONNECTION OF STAIR STRINGER TO BEAM.

STEEL STAIR FLOOR LANDING, COMPOSITE METAL DECK, DECK FLUTES PARALLEL TO BEAM OR CHANNEL

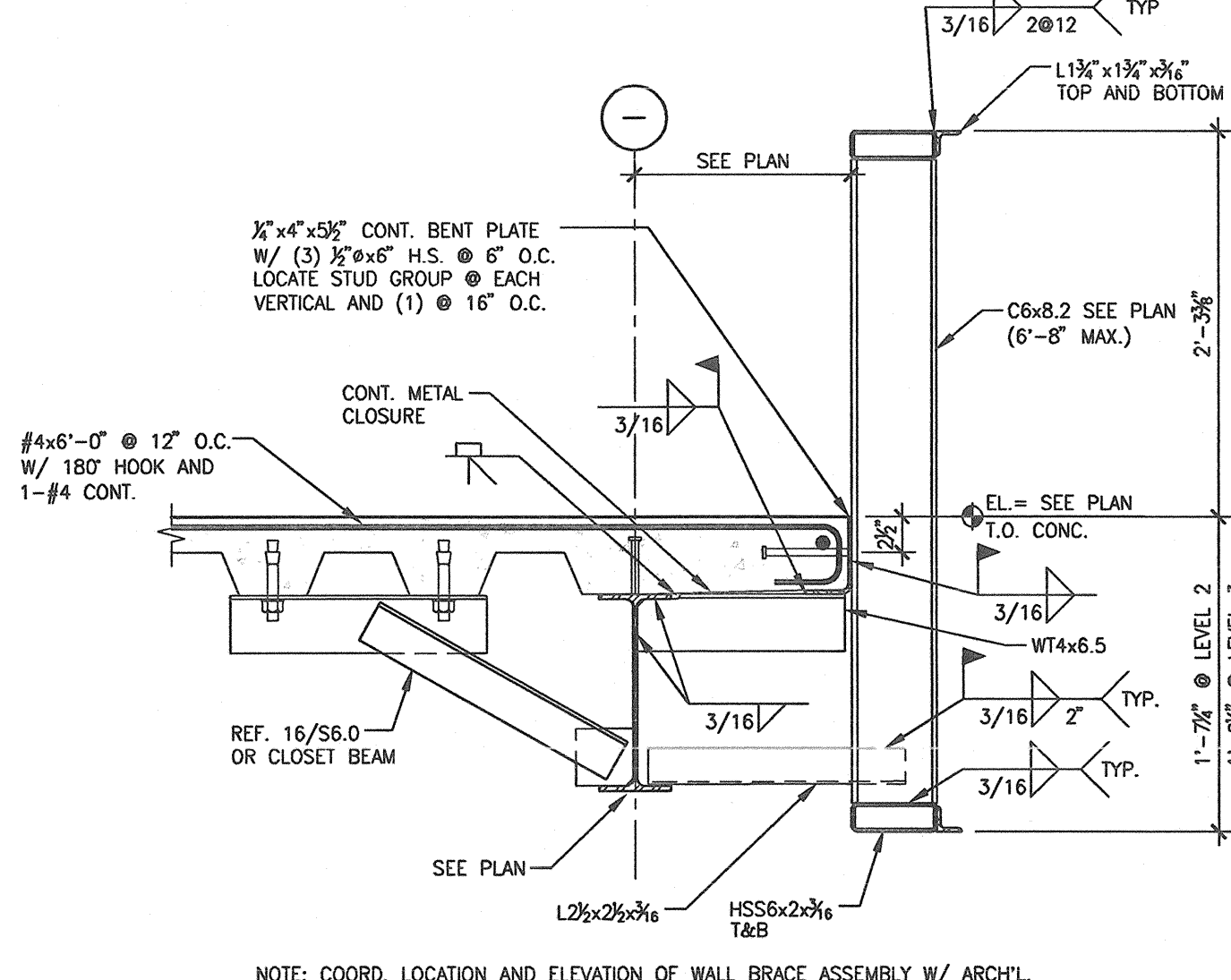
4 NONE TYPICAL DETAIL



- NOTE: THIS DETAIL DOES NOT APPLY WHEN DISTANCE "X" EXCEEDS 0'-5". THIS DETAIL APPLIES AT INTERIOR OPENING ONLY.

COMPOSITE METAL DECK CLOSURE DECK SPAN PARALLEL TO BEAM

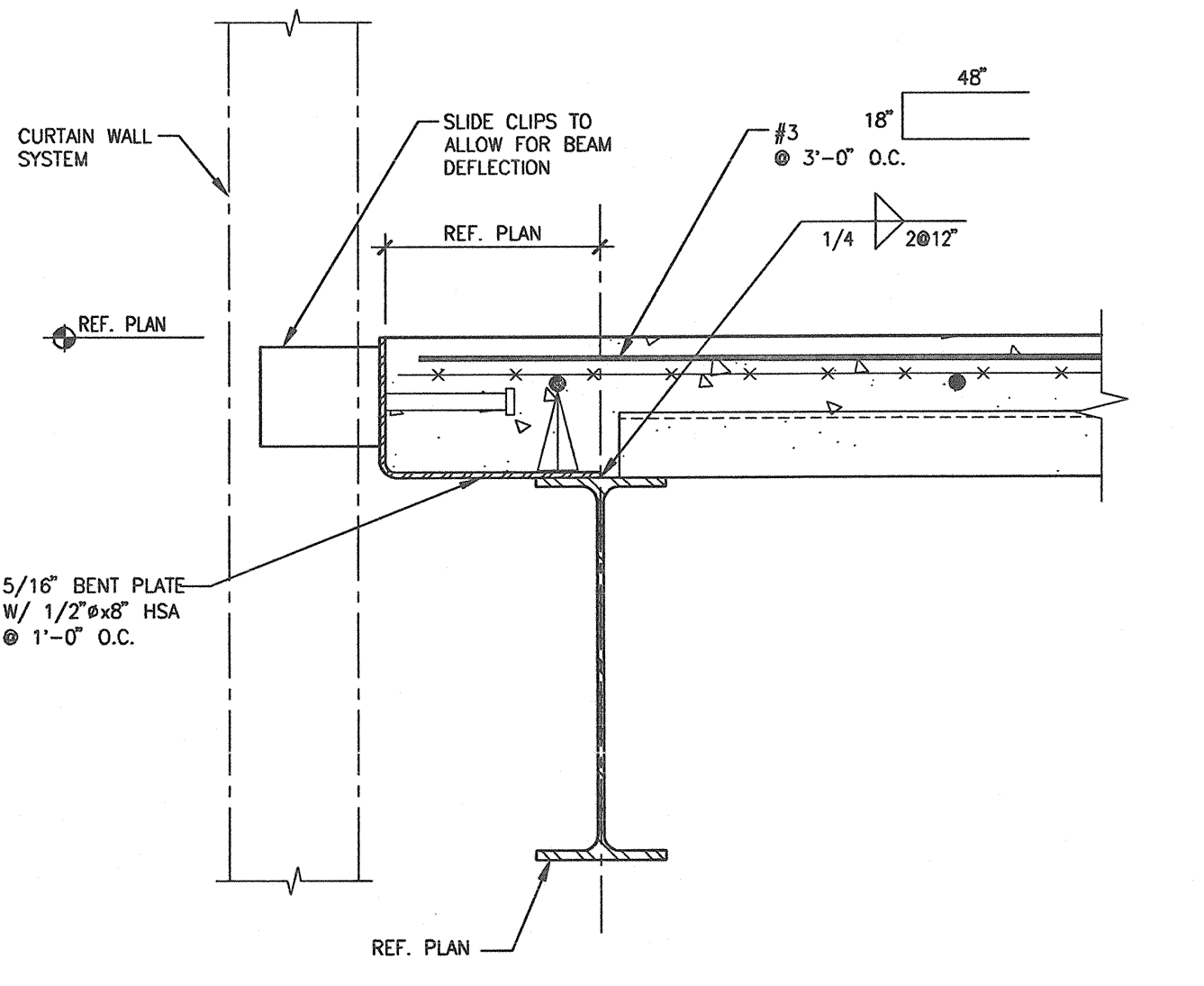
3 NONE TYPICAL DETAIL



- NOTE: COORD. LOCATION AND ELEVATION OF WALL BRACE ASSEMBLY W/ ARCHT.

TYPICAL SLAB EDGE DETAIL

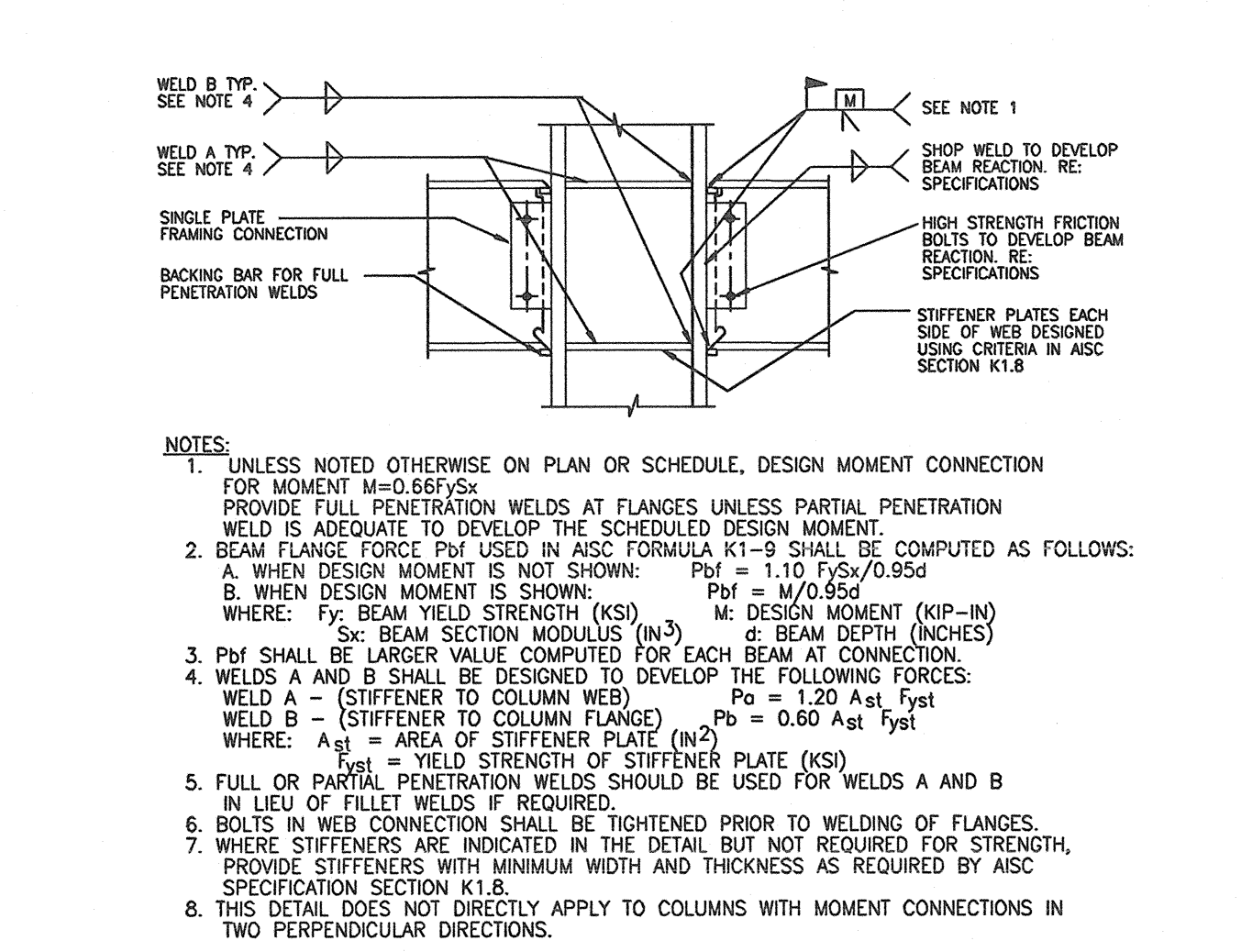
2 N.T.S. DETAIL



- NOTE:
1. 1/2" = 1'-0"

TYPICAL SLAB EDGE DETAIL

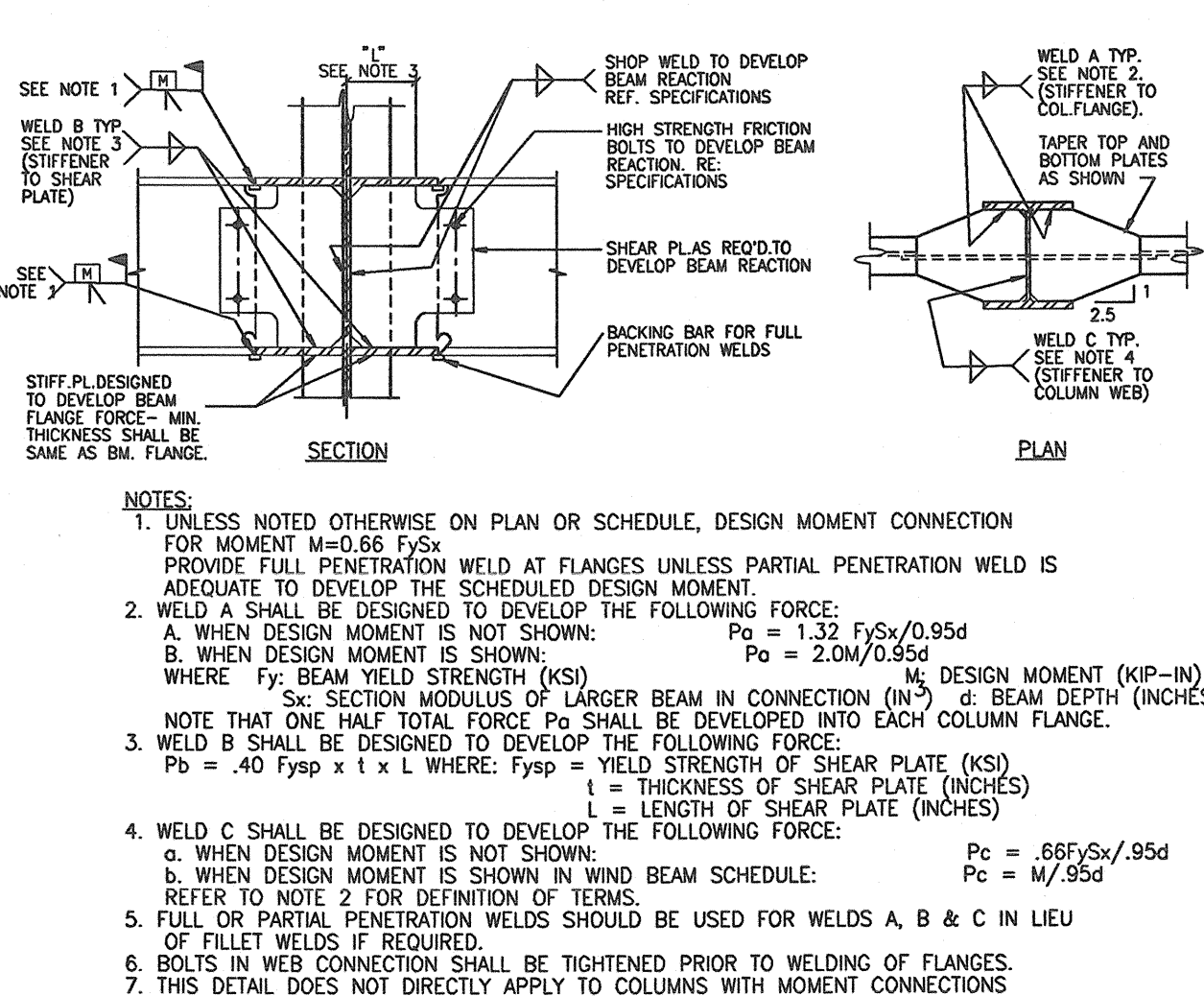
1 1/2" = 1'-0" DETAIL



- NOTES:
1. UNLESS NOTED OTHERWISE ON PLAN OR SCHEDULE, DESIGN MOMENT CONNECTION FOR MOMENT $M=0.6F_yS_x$
 2. PROVIDE FULL PENETRATION WELDS AT FLANGES UNLESS PARTIAL PENETRATION WELD IS ADEQUATE TO DEVELOP THE SCHEDULED DESIGN MOMENT
 3. BEAM FLANGE FORCE P_{bf} USED IN ASD FOR WELDS A & B SHALL BE COMPUTED AS FOLLOWS:
 - A. WHEN DESIGN MOMENT IS NOT SHOWN: $P_{bf} = 1.10 F_y S_x / 0.95d$
 - B. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = M / 0.95d$
 - C. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = 1.32 F_y S_x / 0.95d$
 - D. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = 2.0M / 0.95d$
 - E. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = 0.80 A_{st} F_{yt}$
 4. WHERE: F_y = BEAM YIELD STRENGTH (KSI), S_x = BEAM SECTION MODULUS (IN³), d = BEAM DEPTH (INCHES), M = DESIGN MOMENT (KIP-IN) AT BEAM DEPTH (INCHES)
 5. FULL OR PARTIAL PENETRATION WELDS SHOULD BE USED FOR WELDS A AND B IN LIEU OF FILLET WELDS IF REQUIRED
 6. BOLTS IN WEB CONNECTION SHALL BE TIGHTENED PRIOR TO WELDING OF FLANGES
 7. WHERE STIFFENERS ARE INDICATED IN THE DETAIL, BUT NOT REQUIRED FOR STRENGTH, PROVIDE STIFFENERS AND THICKNESS AS REQUIRED BY ASD SPECIFICATION SECTION K1.8
 8. THIS DETAIL DOES NOT DIRECTLY APPLY TO COLUMNS WITH MOMENT CONNECTIONS IN TWO PERPENDICULAR DIRECTIONS.

STL BEAM TO COLUMN FLNG MOM. CONNX. BMS OF SAME NOM DEPTH

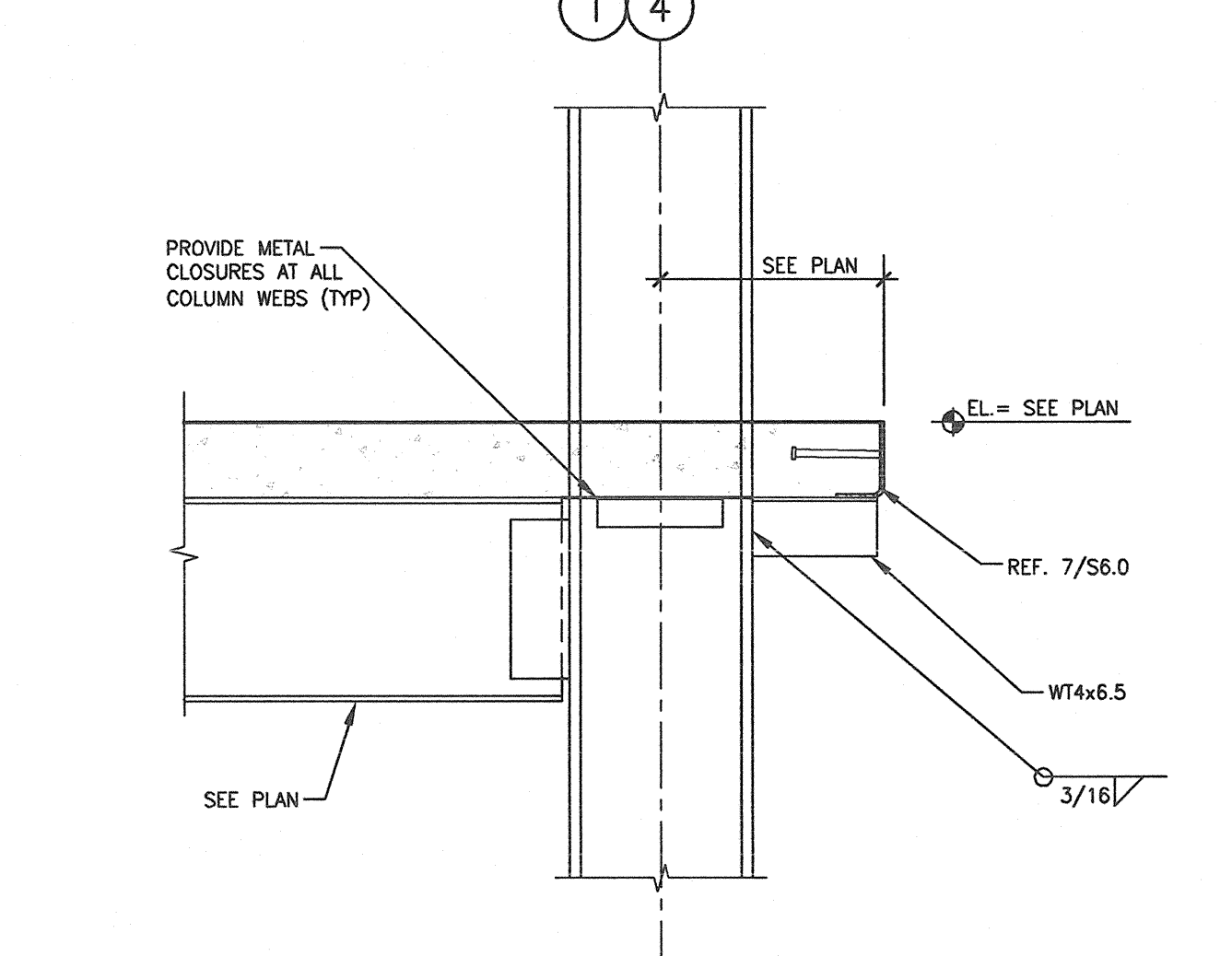
10 N.T.S. DETAIL



- NOTES:
1. UNLESS NOTED OTHERWISE ON PLAN OR SCHEDULE, DESIGN MOMENT CONNECTION FOR MOMENT $M=0.85F_yS_x$
 2. PROVIDE FULL PENETRATION WELD AT FLANGES UNLESS PARTIAL PENETRATION WELD IS ADEQUATE TO DEVELOP THE SCHEDULED DESIGN MOMENT
 3. WELD A SHALL BE DESIGNED TO DEVELOP THE FOLLOWING FORCE:
 - A. WHEN DESIGN MOMENT IS NOT SHOWN: $P_{bf} = 1.32 F_y S_x / 0.95d$
 - B. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = 2.0M / 0.95d$
 - C. WHEN DESIGN MOMENT IS SHOWN: $P_{bf} = 0.80 A_{st} F_{yt}$
 4. WHERE: F_y = BEAM YIELD STRENGTH (KSI), S_x = BEAM SECTION MODULUS (IN³), d = BEAM DEPTH (INCHES), M = DESIGN MOMENT (KIP-IN) AT BEAM DEPTH (INCHES)
 5. FULL OR PARTIAL PENETRATION WELDS SHOULD BE USED FOR WELDS A, B & C IN LIEU OF FILLET WELDS IF REQUIRED
 6. BOLTS IN WEB CONNECTION SHALL BE TIGHTENED PRIOR TO WELDING OF FLANGES
 7. THIS DETAIL DOES NOT DIRECTLY APPLY TO COLUMNS WITH MOMENT CONNECTIONS IN TWO PERPENDICULAR DIRECTIONS.

STL BM TO WIDE FLNG COL WEB MOM CONNX BMS OF SAME DEPTH

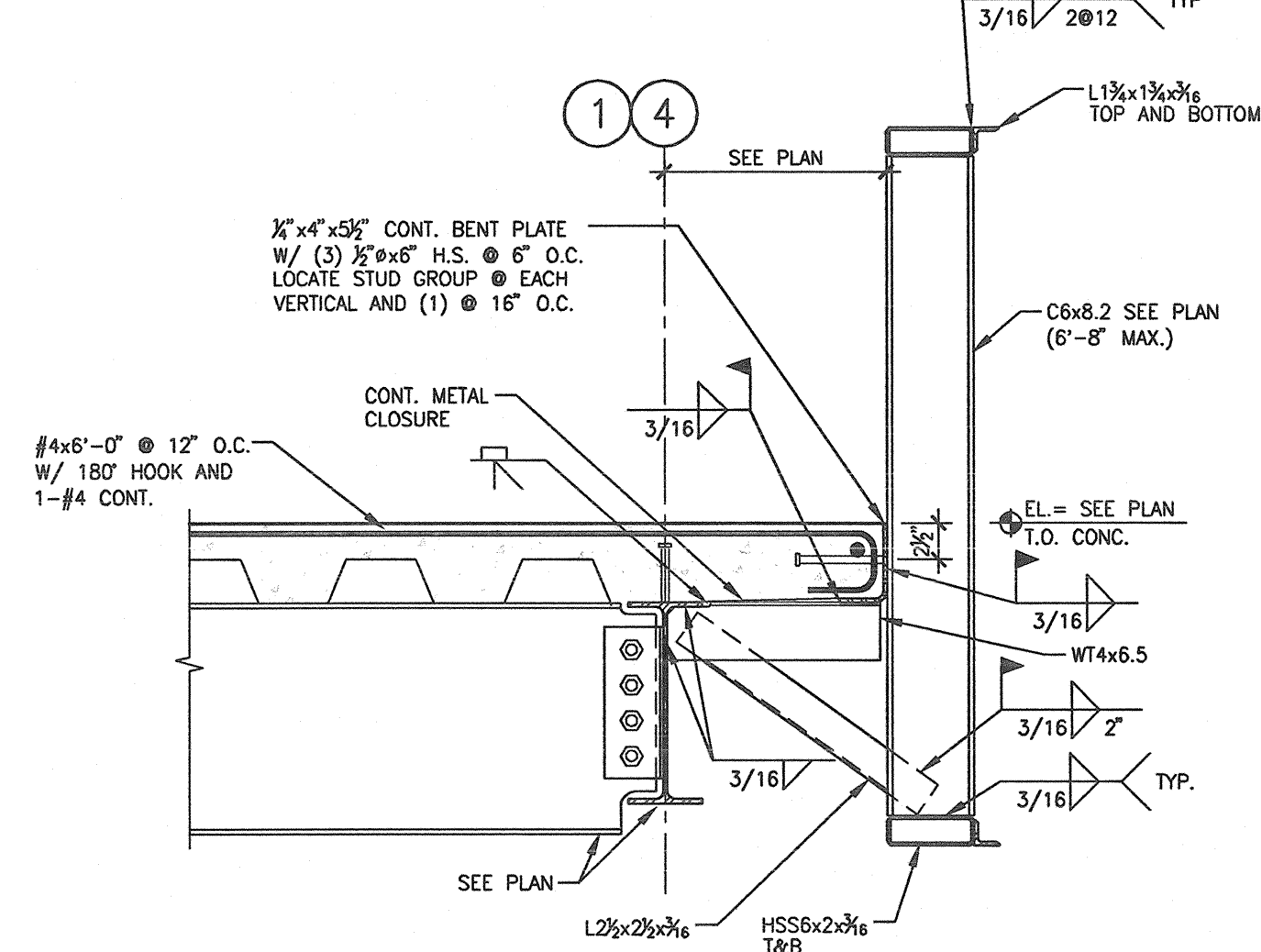
9 N.T.S. DETAIL



- NOTE: THIS DETAIL DOES NOT APPLY TO COLUMNS WITH MOMENT CONNECTIONS IN TWO PERPENDICULAR DIRECTIONS.

TYPICAL SLAB EDGE AT COLUMN

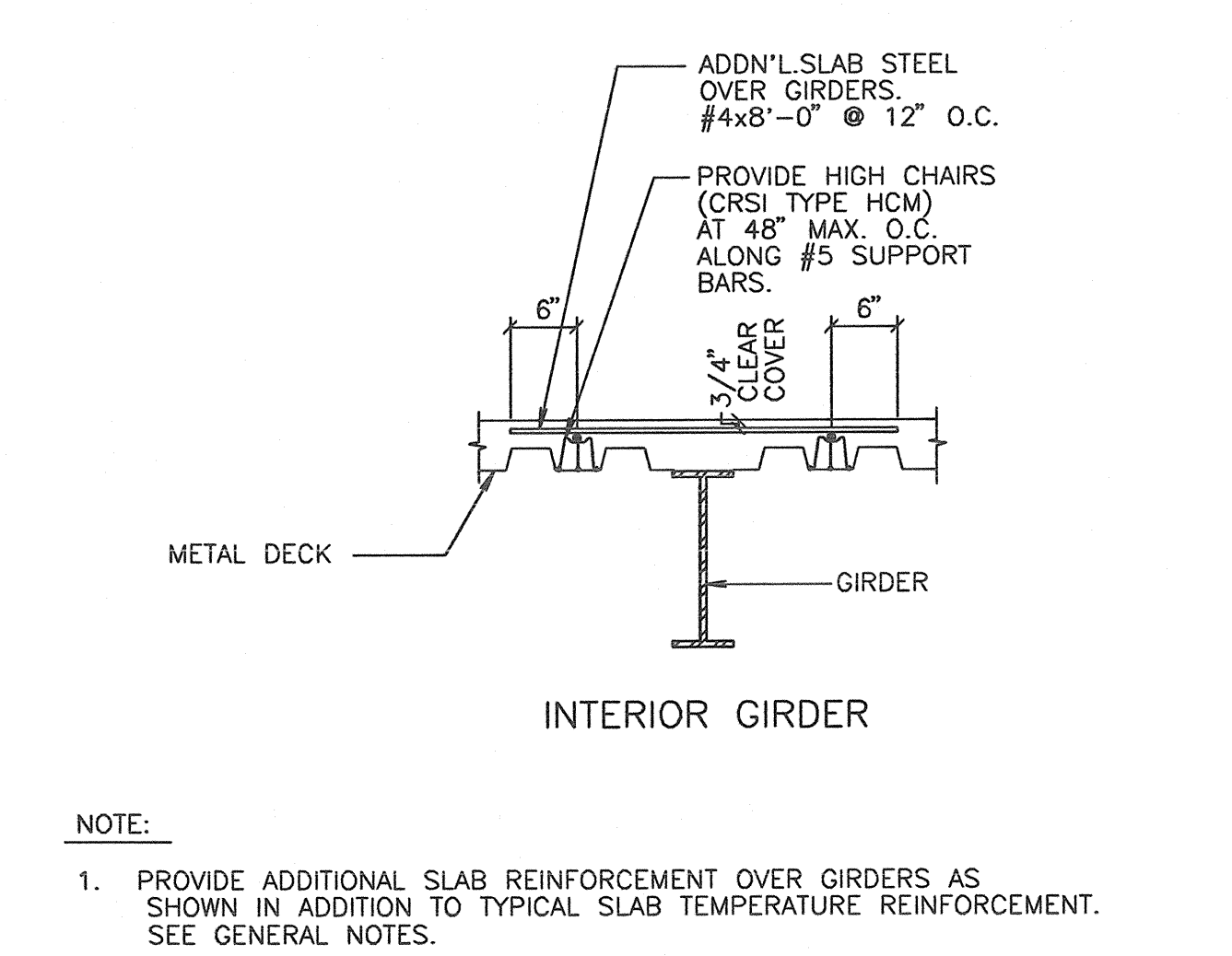
8 1" = 1'-0" DETAIL



- NOTE:
1. SEE GENERAL NOTES FOR METAL DECK SLAB TEMPERATURE REINFORCEMENT
 2. PROVIDE CONTINUOUS #5 REINFORCING BAR SUPPORTS OVER EACH BEAM, BEAM, GIRDER AND AT 48\"/>

TYPICAL SLAB EDGE DETAIL

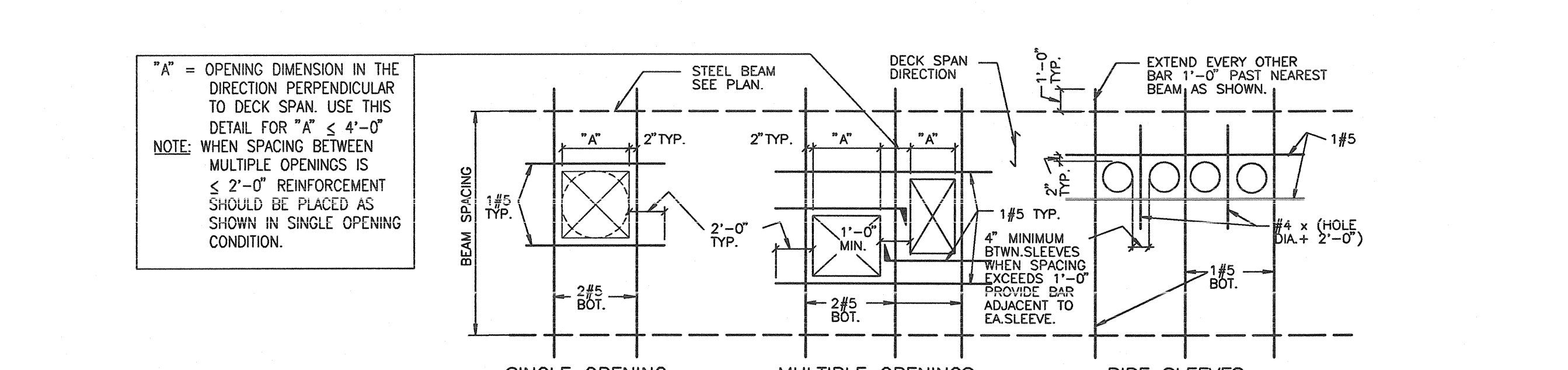
7 1" = 1'-0" DETAIL



- NOTE:
1. PROVIDE ADDITIONAL SLAB REINFORCEMENT OVER GIRDERS AS SHOWN IN ADDITION TO TYPICAL SLAB TEMPERATURE REINFORCEMENT. SEE GENERAL NOTES.

REINFORCED STEEL SUPPORT COMPOSITE GIRDER METAL DECK

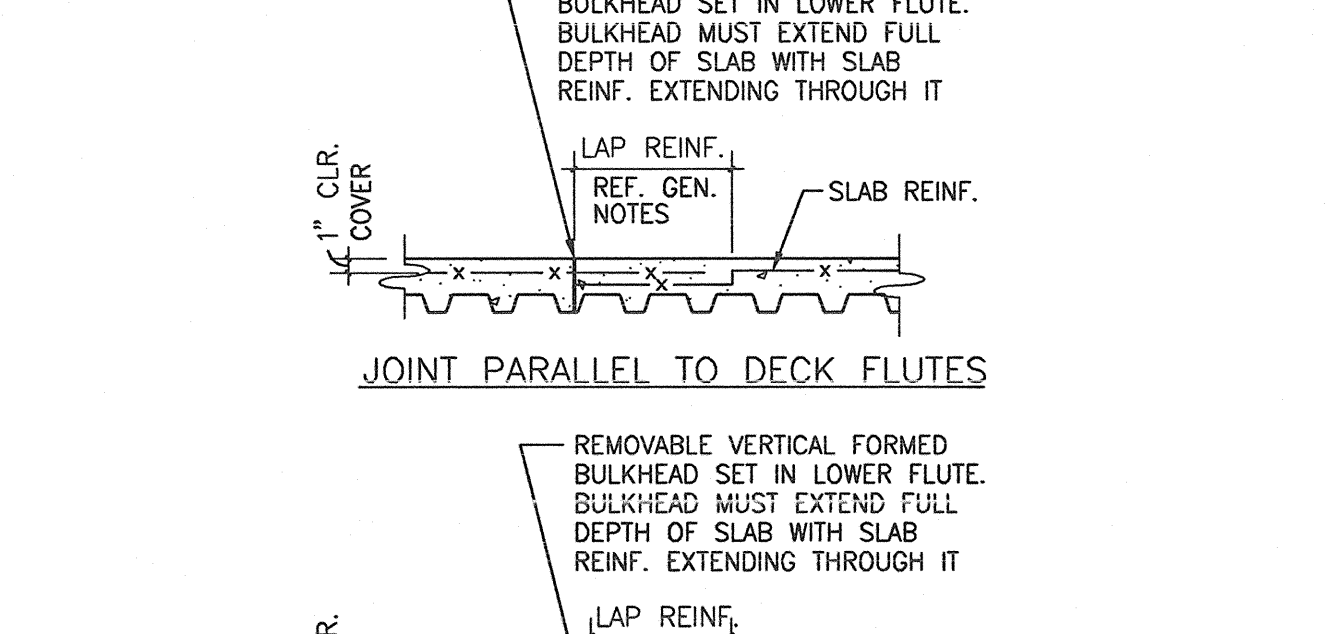
6 N.T.S. DETAIL



- NOTES:
1. COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 2. MAXIMUM DIMENSION "A" SHALL BE 4'-0". REFER TO PLAN OR DETAIL ON DRAWINGS FOR FRAMING OF OPENINGS GREATER THAN 4'-0".
 3. W/F SLAB REINFORCEMENT SHALL BE CUT AROUND SLAB OPENING. W/F SHALL EXTEND TO 2' OF OPENING ON ALL SIDES.
 4. OPENING 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
 5. FIELD CUT OPENINGS IN DECK AFTER CONCRETE SLAB HAS BEEN POURED AND HAS ATTAINED MINIMUM 75% OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
 6. REINFORCEMENT PERPENDICULAR TO DECK SPAN SHALL BE PLACED ON TOP OF DECK FLUTES.
 7. REINFORCEMENT PARALLEL TO DECK SPAN SHALL BE PLACED IN THE LOWER FLUTE AND SHALL BE CHAIRC TO PROVIDE 3/4" COVER.
 8. THIS DETAIL SHOWS TYPICAL CONDITIONS. VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES.
 9. PROVIDE REINFORCEMENT AS SHOWN FOR SQUARE, RECTANGULAR OR ROUND OPENINGS.

TYPICAL DETAIL OPENINGS IN COMPOSITE METAL DECK SLAB, FLOOR OR ROOF

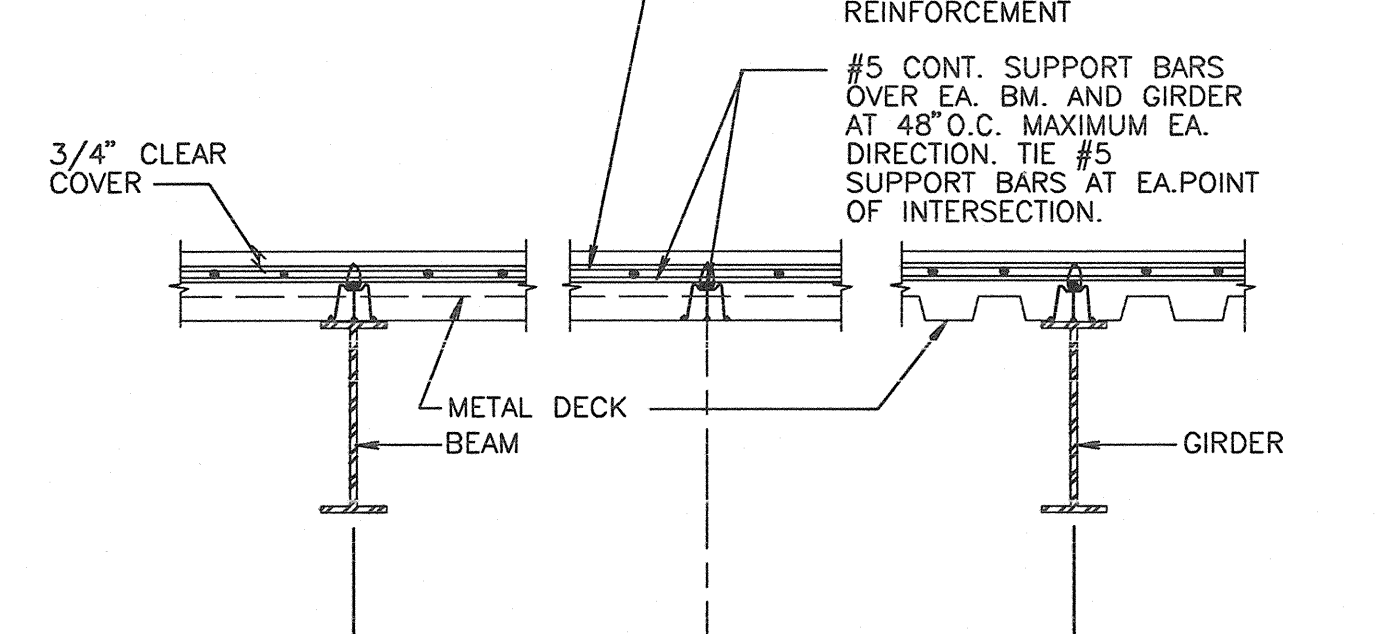
15 DETAIL



- NOTES:
1. CONSTRUCTION JOINTS PARALLEL TO DECK FLUTES SHALL BE LOCATED NO CLOSER THAN 5'-0" FROM THE CENTERLINE OF THE NEAREST GIRDER.
 2. CONSTRUCTION JOINTS PERPENDICULAR TO DECK FLUTES SHALL BE LOCATED AT THE CENTER OF THE METAL DECK SPAN.
 3. AT THE CONTRACTOR'S OPTION, PREFORMED PERMANENT METAL SHEAR KEY FOLLOWING CONTOUR OF METAL DECK FLUTES MAY BE USED WITH SLAB REINF. STOPPING EACH SIDE AND #3 DOWELS x 2'-0" CENTERED @ 18'-0" O.C.

CONSTRUCTION JOINT CONCRETE SLAB ON METAL DECK

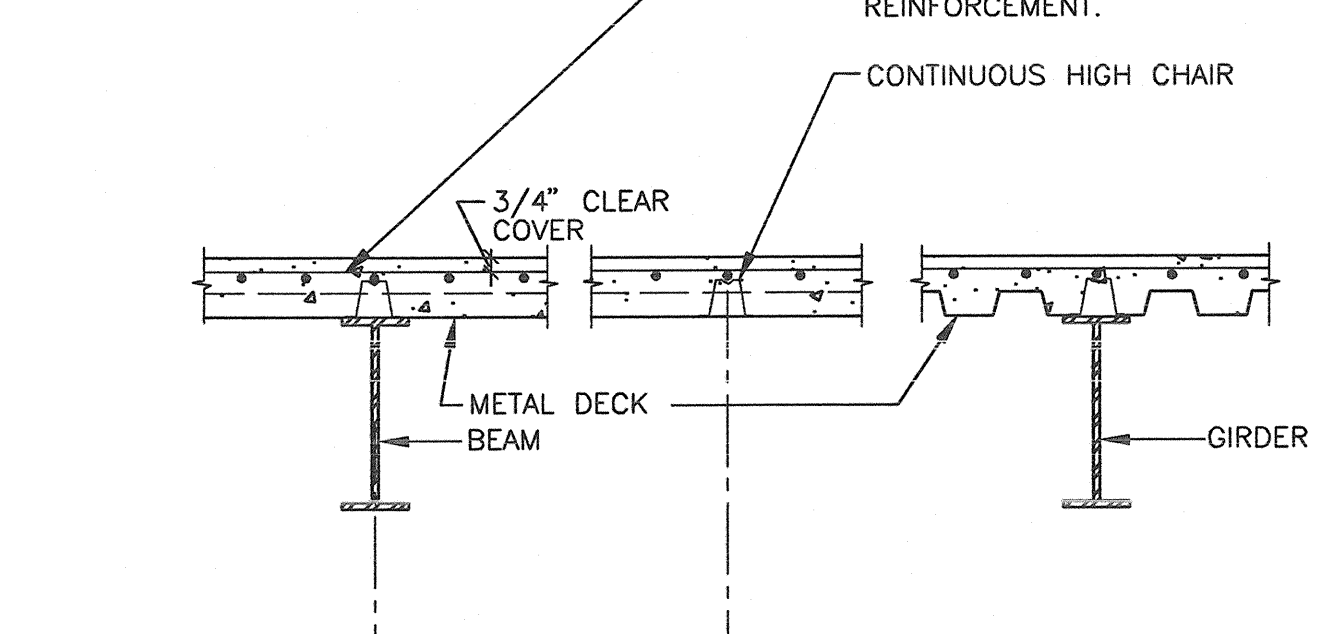
13 SCALE: N.T.S. DETAIL



- NOTES:
1. SEE GENERAL NOTES FOR METAL DECK SLAB TEMPERATURE REINFORCEMENT
 2. PROVIDE CONTINUOUS #5 REINFORCING BAR SUPPORTS OVER EACH BEAM, BEAM, GIRDER AND AT 48\"/>

TYPICAL DETAIL: TEMPERATURE REINFORCEMENT

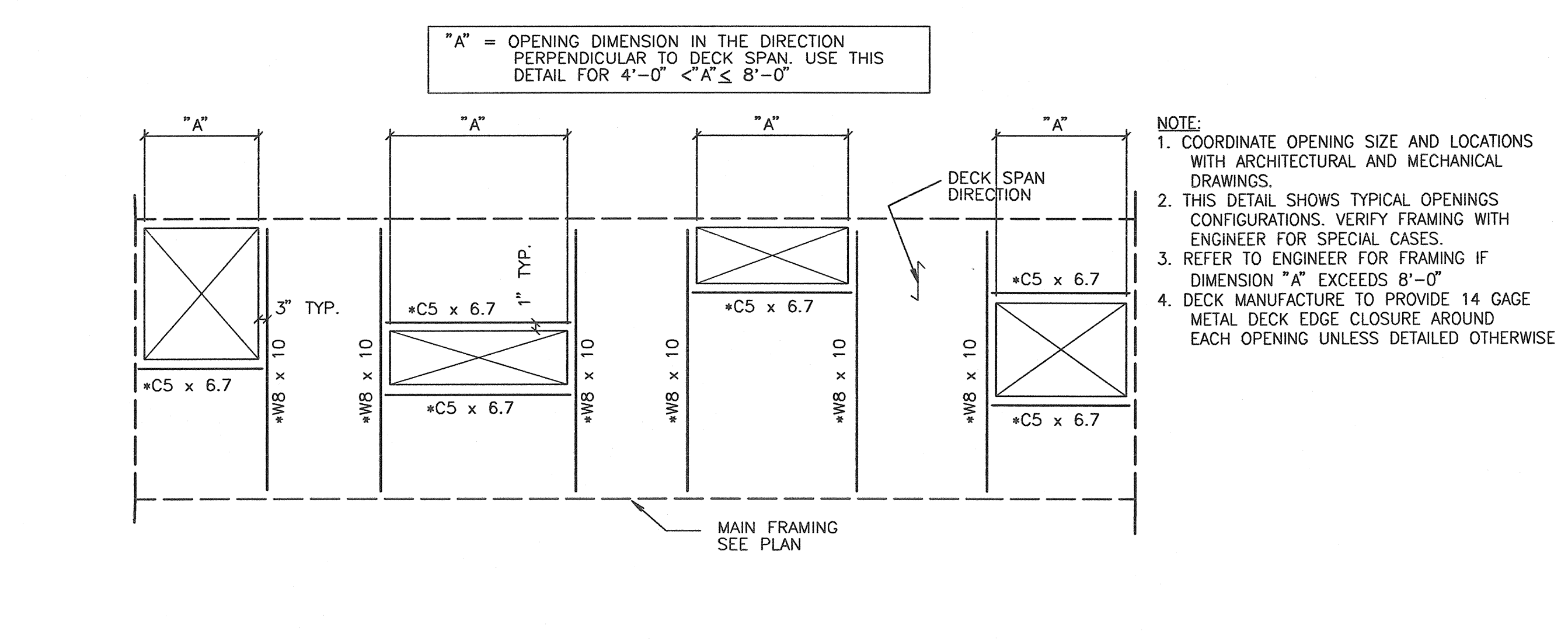
12 N.T.S. DETAIL



- NOTE:
1. PROVIDE 1/2 OF INTERRUPTED REINFORCEMENT PLUS ONE ADDITIONAL BAR OF SAME SIZE AS INTERRUPTED REINFORCEMENT ON EACH SIDE OF OPENING.

OPENING IN CONCRETE SLAB, FLOOR OR ROOF

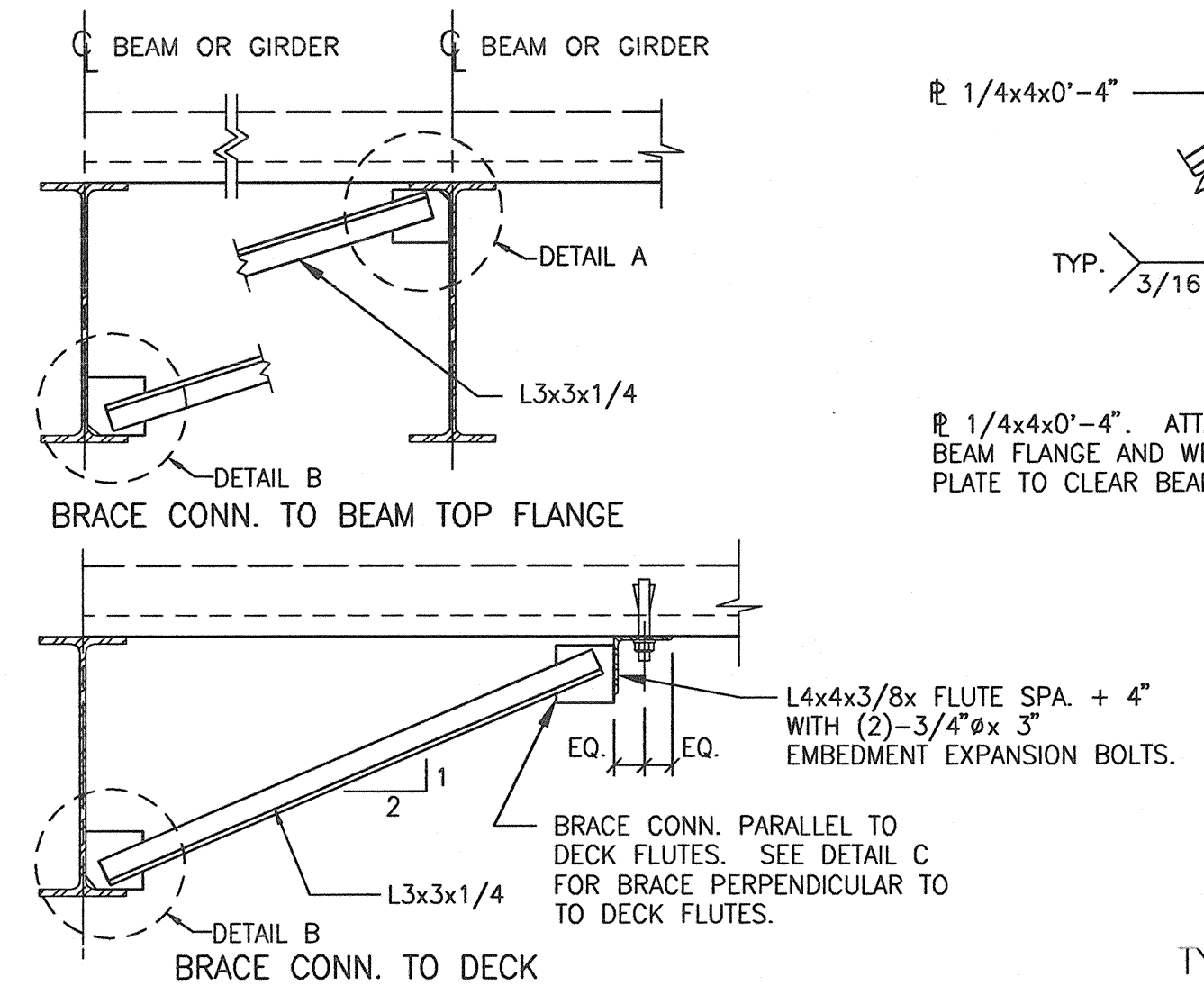
16 N.T.S. DETAIL



- NOTE:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 2. THIS DETAIL SHOWS TYPICAL OPENINGS CONFIGURATIONS. VERIFY FRAMING WITH ENGINEER FOR SPECIAL CASES.
 3. REFER TO ENGINEER FOR FRAMING IF DIMENSION "A" EXCEEDS 8'-0"
 4. DECK MANUFACTURE TO PROVIDE 14 GAGE METAL DECK EDGE CLOSURE AROUND EACH OPENING UNLESS DETAILED OTHERWISE

FRAMED OPENINGS IN FLOOR OR ROOF

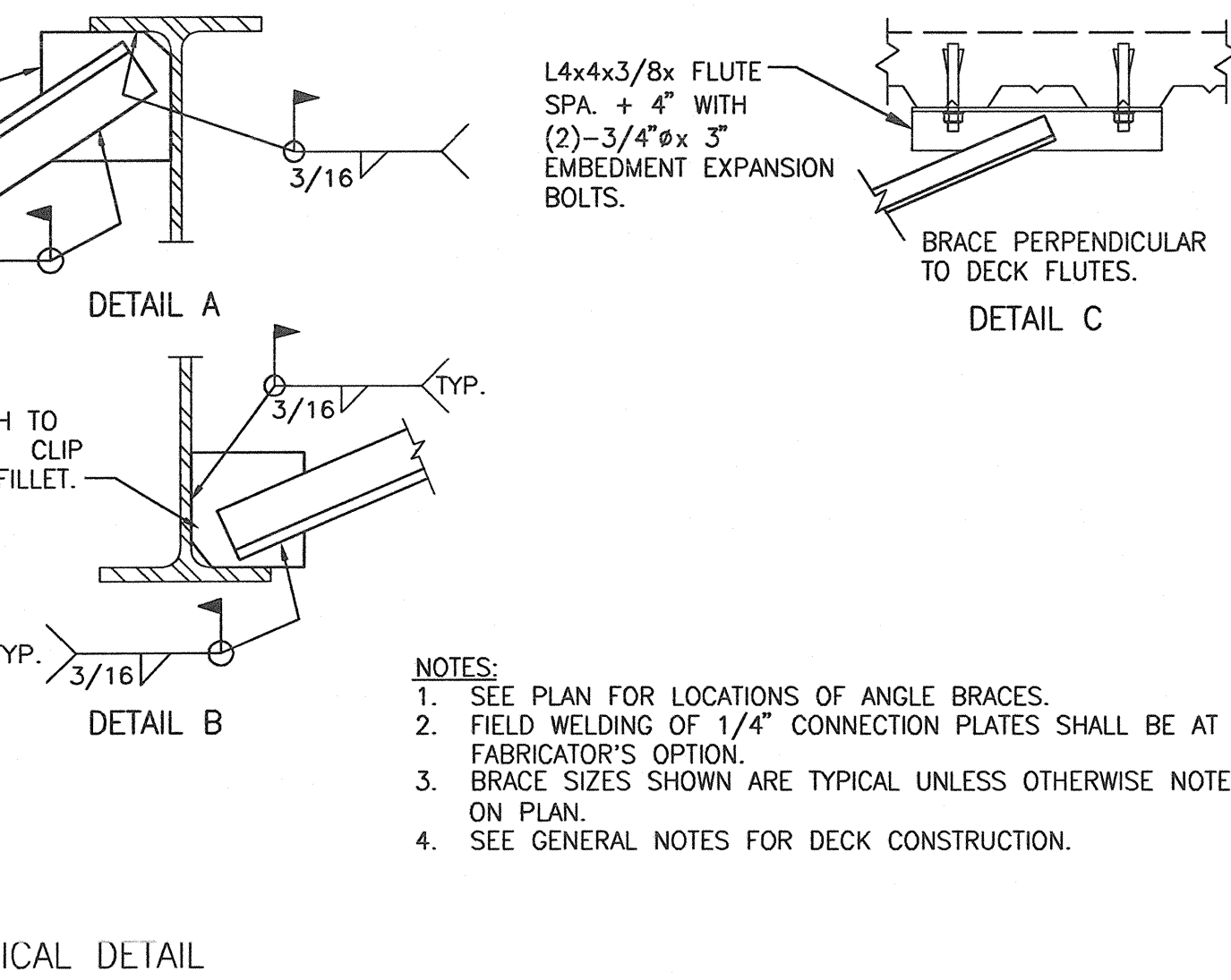
20 TYPICAL DETAIL



- NOTE:
1. SEE PLAN FOR LOCATIONS OF ANGLE BRACES.
 2. FIELD WELDING OF 1/4" CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.
 3. BRACE SIZES SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLAN.
 4. SEE GENERAL NOTES FOR DECK CONSTRUCTION.

TYPICAL DETAIL BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)

18 DETAIL



- NOTE:
1. PROVIDE 1/2 OF INTERRUPTED REINFORCEMENT PLUS ONE ADDITIONAL BAR OF SAME SIZE AS INTERRUPTED REINFORCEMENT ON EACH SIDE OF OPENING.

OPENING IN CONCRETE SLAB, FLOOR OR ROOF

16 N.T.S. DETAIL



M.E. RINKER, Sr. HALL
SCHOOL OF BUILDING CONSTRUCTION
UNIVERSITY OF FLORIDA-GAINESVILLE
PROJECT NO. BR-191

ARCHITECTS
CROXTON COLLABORATIVE/
GOULD EVANS ASSOCIATES

CROXTON COLLABORATIVE ARCHITECTS
475 FIFTH AVENUE
NEW YORK, NY 10017
TEL 212.683.1998
FAX 212.683.2799

GOULD EVANS ASSOCIATES
5405 WEST CYPRESS STREET
TAMPA, FL 33607
TEL 813.288.0729
FAX 813.288.0231

MECHANICAL ENGINEERS
LEHR ASSOCIATES
130 WEST 30TH STREET
NEW YORK, NY 10001-4092
TEL 212.947.8050
FAX 212.967.2059

STRUCTURAL ENGINEERS
WALTER P. MOORE AND ASSOCIATES, INC.
Florida Engineering Business No. 3803
201 EAST KENNEDY BOULEVARD
TAMPA, FL 33602
TEL 813.221.2424
FAX 813.221.2289

CIVIL ENGINEERS
BROWN & CULLEN, INC.
3530 NW 43 STREET
GAINESVILLE, FL 32605
TEL 352.375.9999
FAX 352.375.0833

LANDSCAPE ARCHITECTS
McLain DESIGN GROUP, INC.
1843 NW 39 DRIVE
GAINESVILLE, FL 32605
TEL 352.372.2808
FAX 352.375.6622

CONSULTANT
SEEGY-BISCH

AUSSEER SUZBAECHER STR. 118
NURNBERG, GERMANY
TEL 0911.59.90.99
FAX 0911.59.98.05

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TYPICAL FRAMING DETAILS

DATE 11-21-01

SCALE AS NOTED S6.0

DATE 11-21-01

DATE 11-21-01