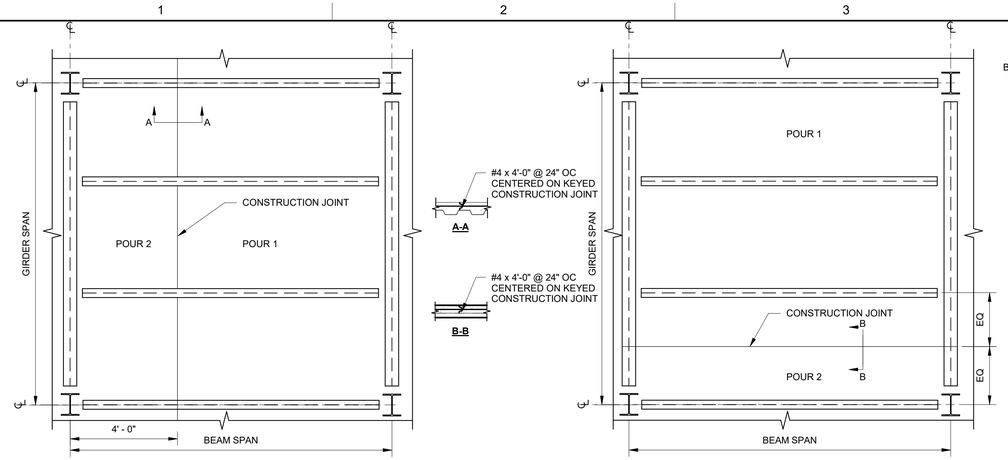
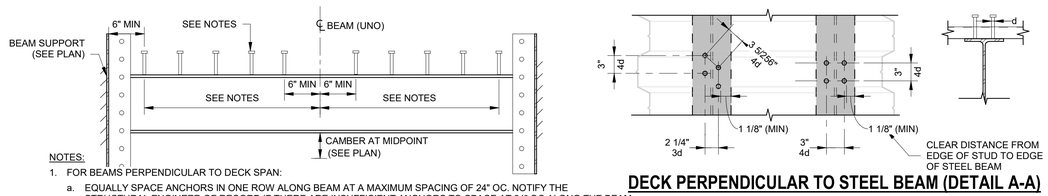


COMPOSITE FRAMING CONSTRUCTION JOINT LOCATION - PLAN

SCALE: 3/8" = 1'-0"

1 S511



NOTES:

1. FOR BEAMS PERPENDICULAR TO DECK SPAN:
   a. EQUALLY SPACE ANCHORS IN ONE ROW ALONG BEAM AT A MAXIMUM SPACING OF 24" OC. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THERE ARE INSUFFICIENT ANCHORS TO SPACE AT 24" OC ALONG THE BEAM.
   b. MINIMUM ANCHOR SPACING ALONG BEAM IS 3" OC (4x STUD DIAMETER).
   c. IF THERE ARE ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EVERY OTHER RIB WITHOUT AN ANCHOR STARTING AT EACH END OF THE BEAM.
   d. IF THERE ARE STILL ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EACH RIB WITHOUT AN ANCHOR, AGAIN STARTING AT EACH END OF THE BEAM.
   e. IF NUMBER OF ANCHORS EXCEEDS NUMBER OF RIBS, ASSIGN ONE ANCHOR TO EACH RIB. ASSIGN SECOND ANCHOR TO EACH RIB STARTING AT EACH END OF BEAM UNTIL ALL ANCHORS ARE USED. SEE A-A FOR MINIMUM ANCHOR SPACE. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8" (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE (3" GAUGE). WELD ANCHORS AFTER ASSIGNING IS COMPLETE.
2. FOR BEAMS PARALLEL TO DECK SPAN:
   a. EQUALLY SPACE TOTAL QUANTITY OF ANCHORS IN ONE ROW ALONG BEAM. IF QUANTITY OF ANCHORS EXCEEDS THE MINIMUM SPACING IN NOTE b BELOW, INSTALL ANCHORS IN TWO ROWS ALONG BEAM.
   b. MINIMUM ANCHOR SPACING ALONG BEAM IS 4 1/2" OC (6x STUD DIAMETER).
   c. FOR ONE ROW OF ANCHORS, LOCATE ANCHORS OVER BEAM WEB. FOR TWO ROWS OF ANCHORS, SEE B-B FOR MINIMUM ANCHOR SPACING. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8" (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE. (3" GAUGE).
3. SEE COMPOSITE FLOOR SYSTEM NOTES AND FRAMING PLAN FOR HEADED STUD ANCHOR SIZE, LENGTH AND QUANTITY.

DISTRIBUTED HEADED STUD ANCHOR PLACEMENT

SCALE: 1" = 1'-0"

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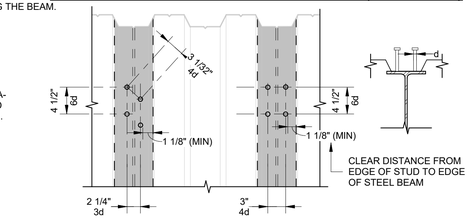
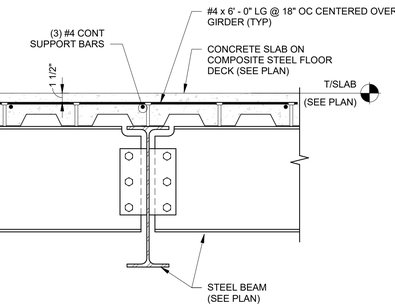
DECK PERPENDICULAR TO STEEL BEAM (DETAIL A-A)



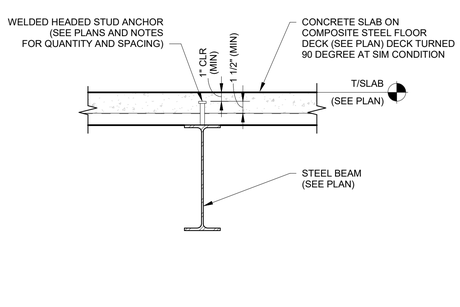
DECK PARALLEL TO STEEL BEAM (DETAIL B-B)



TYPICAL COMPOSITE STEEL GIRDER - SECTION

SCALE: 1" = 1'-0"

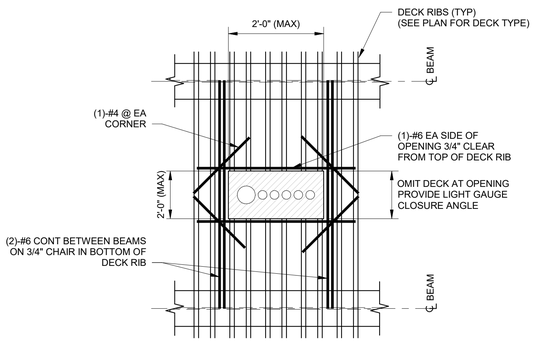
3 S511



TYPICAL COMPOSITE STEEL BEAM - SECTION

SCALE: 1" = 1'-0"

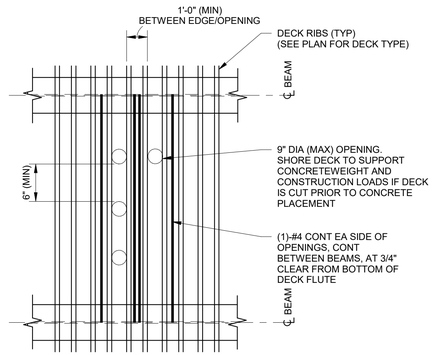
4 S511



MULTIPLE SLEEVES IN SINGLE OPENING

NOTES:

1. REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.
2. ALL OPENINGS TO BE REVIEWED AND APPROVED BY EOR. ADDITIONAL FRAMING MAY BE REQUIRED.



ISOLATED OPENINGS

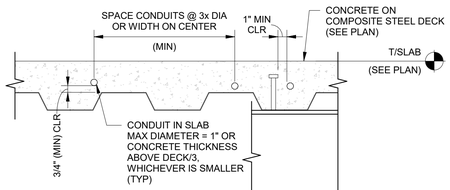
NOTES:

1. REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.

COMPOSITE SLAB PIPE PENETRATION - PLAN

SCALE: 1" = 1'-0"

5 S511



NOTES:

1. CONDUITS SHALL NOT BE ALLOWED TO CROSS OVER EACH OTHER.
2. CONDUITS ARE NOT PERMITTED IN SLABS IF THEY REDUCE THE SPECIFIED SLAB FIRE RATING. SEE ARCHITECTURAL FOR FIRE RATING REQUIREMENTS.
3. ALUMINUM CONDUIT IS NOT PERMITTED.
4. INCREASE MINIMUM CLEAR ABOVE CONDUIT TO 1 1/2" FOR EXTERIOR SLABS.

TYPICAL CONDUIT IN DECK SLAB - SECTION

SCALE: 1 1/2" = 1'-0"

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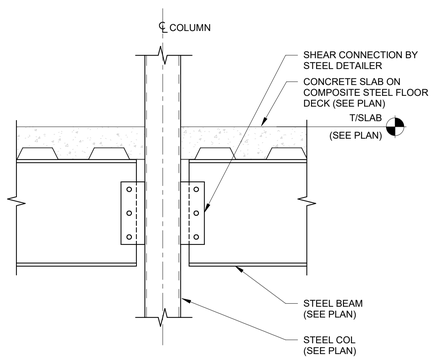

TYPICAL COMPOSITE STEEL BEAM TO STEEL COLUMN CONNECTION - SECTION

SCALE: 1" = 1'-0"

7 S511

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

Project Status

NCWSA NEWTON COUNTY WATER & SEWERAGE AUTHORITY

Project Name

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
Project Number
CLIENT PROJECT NUMBER

COMPOSITE STEEL FRAMING DETAILS

DRAWING NUMBER
S511

Plot Date: 3/12/2026 12:24:31 AM Path: Autodesk Docs://NCWSA Admin Bldg_ V25\0250683-NCWSA Office Addition-R25-STRUCT.rvt