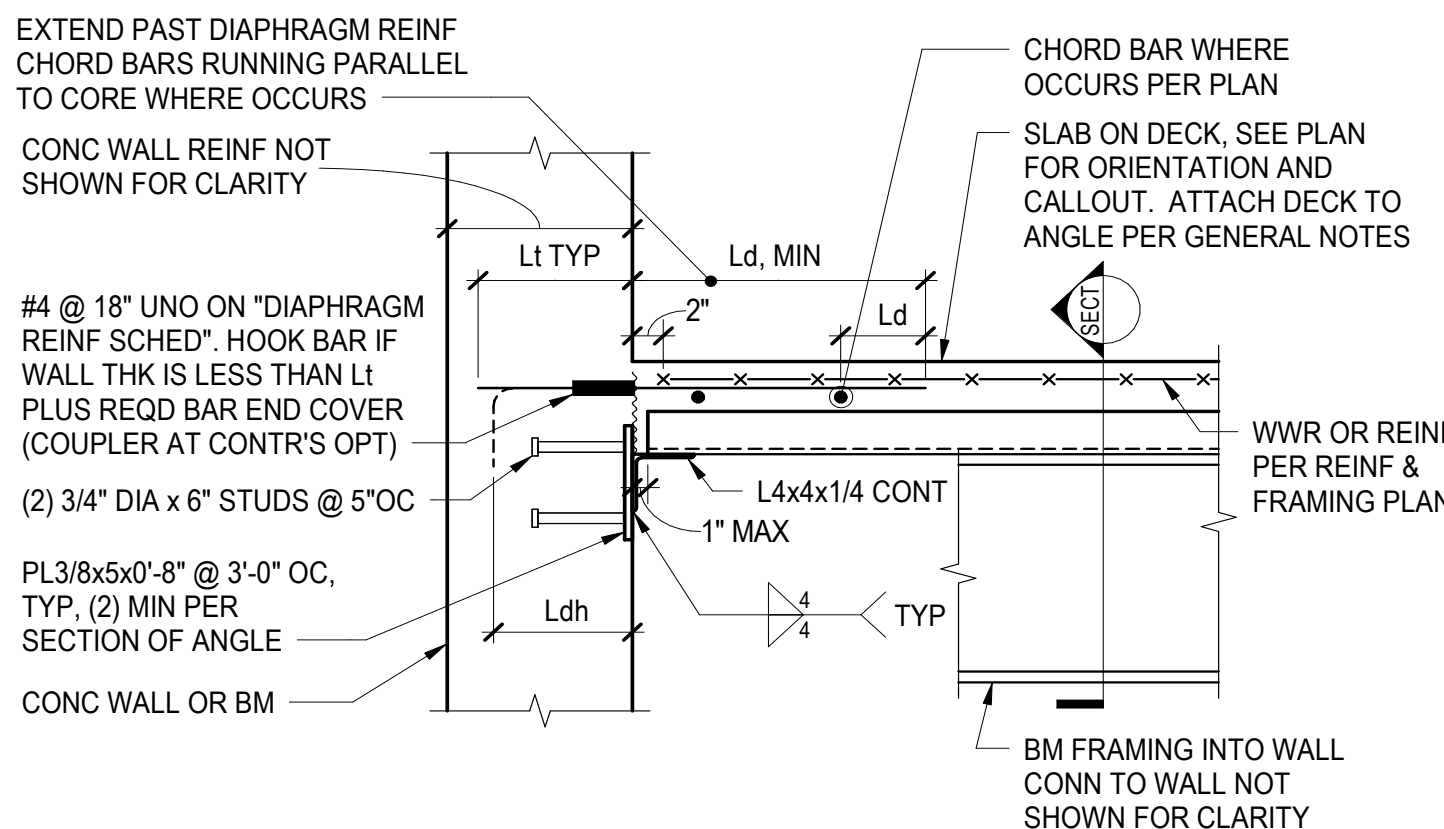


- NOTES:**
- SEE "TYPICAL DECK EDGE CONDITIONS" FOR DECK EDGE SUPPORT AT COLUMNS.

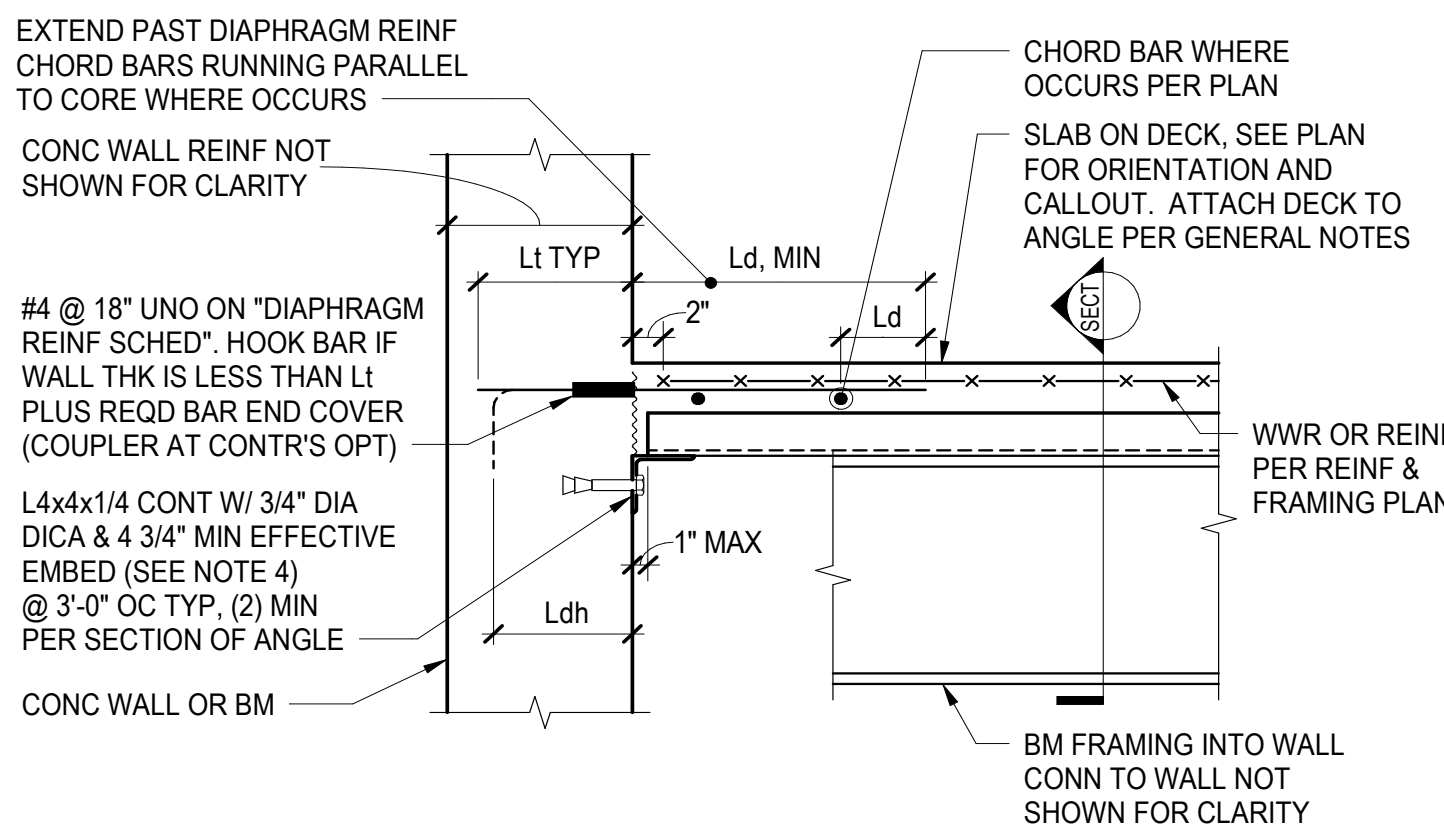
2 TYP DECK SUPPORT AND REINF AT COLS

- NOTES:**
- SHEAR STUD PLACEMENT TO BEAM IS PER TYPICAL DETAIL. COORDINATE DECK AND STEEL FRAMING PLACEMENT. WHERE DECK LOW FLUTE DOES NOT ALIGN WITH BEAM FLANGE BELOW, PROVIDE LOCAL MODIFICATION TO DECK TO FACILITATE SHEAR STUD PLACEMENT. SIMILARLY MODIFY SUPPORT CONDITIONS WHEN DECK IS SKEWED TO THE BEAMS AS REQUIRED TO ALLOW FOR PLACEMENT OF STUDS IN ACCORDANCE WITH THE TYPICAL DETAIL.
 - ALL OPENINGS IN SLAB OR ROOF DECKS SHALL BE COORDINATED, FRAMED, AND REINFORCED PER THE TYPICAL DETAILS. DO NOT CUT DECK UNTIL FRAMING IS PLACED AND CONCRETE IS CURED AS NOTED.
 - CONDUIT IN SLAB ON DECK IS PERMITTED ONLY WHEN FULLY SATISFYING THE REQUIREMENTS OF THE TYPICAL CONDUIT IN SLAB ON STEEL DECK DETAIL. WHEN CONDUIT VERTICALLY RUNS INTO THE SLAB, IT IS TO BE TREATED AS A DECK OPENING AND REINFORCED AS REQUIRED PER THE TYPICAL DETAILS.
 - JOINTING OF SLABS ON DECK SHALL BE PER THE TYPICAL DETAILS AND SATISFY THE REQUIREMENTS OF THE GENERAL NOTES.
 - SUPPORT ALL DECK AT FRAMING, COLUMNS, AND WALLS PER THE TYPICAL DETAILS. DISCONTINUOUS TOP OF COLUMNS SUPPORTING SLAB OR ROOF DECK SHALL HAVE A 3/8" CAP PLATES SUITABLY SIZED TO SUPPORT THE DECK UNLESS OTHERWISE SHOWN.
 - ROOF DECK EDGE CONDITIONS SHALL BE PER THE TYPICAL DETAILS. AT ROOF DECK EDGE CONDITIONS WHERE PLATE IS NOT REQUIRED TO SUPPORT EXTENT OF ARCHITECTURAL ROOFING, EXTERIOR CLADDING SYSTEMS, OR OTHER ARCHITECTURAL FEATURES IT, MAY BE OMITTED. CONTRACTOR TO COORDINATE.
 - SLAB ON DECK EDGE CONDITIONS SHALL BE PER THE TYPICAL DETAILS. AT SLAB EDGE CONDITIONS WHERE RAILING, EXTERIOR CLADDING, OR OTHER ARCHITECTURAL FEATURES REQUIRE A PLATE EDGE, SEE "TYPICAL DECK EDGE AT EXTERIOR CLADDING OR RAILING" DETAIL. CONTRACTOR TO COORDINATE.
 - CONTRACTOR TO COORDINATE SLAB ON DECK EDGE CONDITIONS WITH ELEVATOR AND DOCK LEVELER SILLS DETAIL WHERE OCCURS. REFER TO "TYPICAL ELEVATOR AND DOCK LEVELER SILL" DETAIL FOR REQUIREMENTS.

6 STEEL DECK NOTES

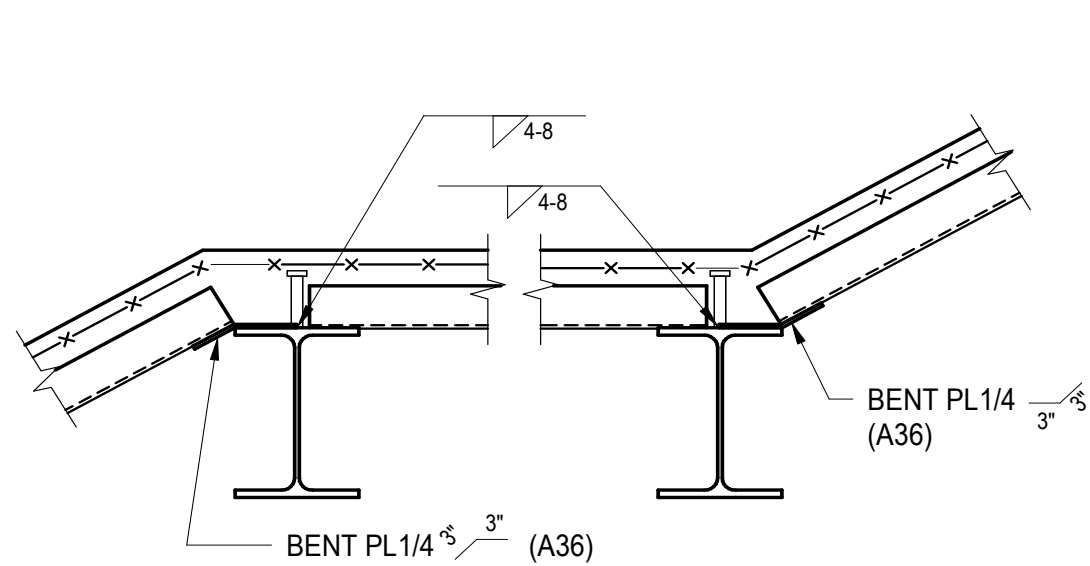


CAST-IN-PLACE OPTION



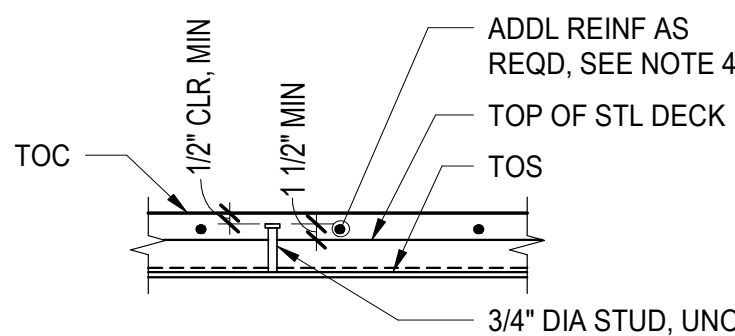
- NOTES:**
- ROOF DECK IS SIMILAR.
 - CONTRACTOR TO COORDINATE REINF AND ANCHOR / EMBED PLACEMENT.
 - AT CONTRACTOR'S OPTION, FOR DECK PARALLEL TO WALL CONDITION, IT IS ACCEPTABLE TO SHORE DECK AT EDGES UNTIL CONCRETE REACHES DESIGN COMPRESSIVE STRENGTH IN LIEU OF PROVIDING L4x4 AND DICAS / EMBEDS. PROVIDE JOINT KEY PER GENERAL NOTES.
 - ANCHORS SHALL BE HILTI KWIK BOLT TZ, SIMPSON STRONG TIE STB2, OR APPROVED EQUAL. PROVIDE HORIZONTAL LSL HOLES IN L4x4.

16 TYPICAL DECK SUPPORT AT CONCRETE

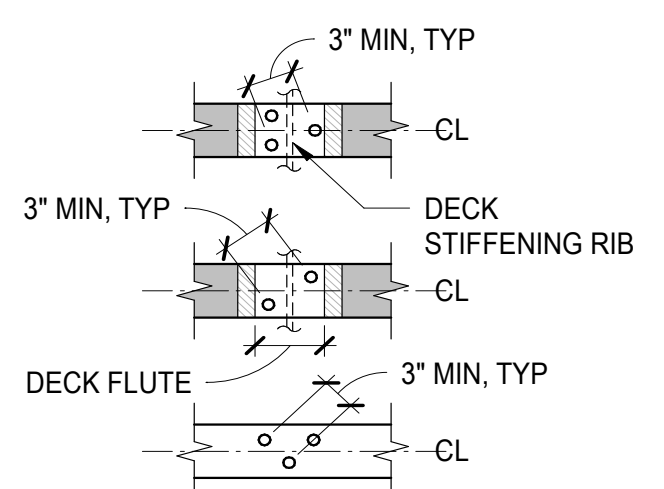


- NOTES:**
- STUDS ARE TYPICALLY 3/4 INCH DIAMETER AT 24 INCHES ON CENTER MAXIMUM, UNLESS NOTED OTHERWISE.
 - AT ALL ANGLES AND WEBS LESS THAN OR EQUAL TO 1/4 INCH THICK, USE 1/2 INCH DIAMETER x 4 INCH STUDS AT 12 INCHES ON CENTER.
 - DECK SPANS EITHER DIRECTION, SEE PLANS.
 - ROOF DECK SIMILAR.

3 TYPICAL DECK SUPPORT DETAILS



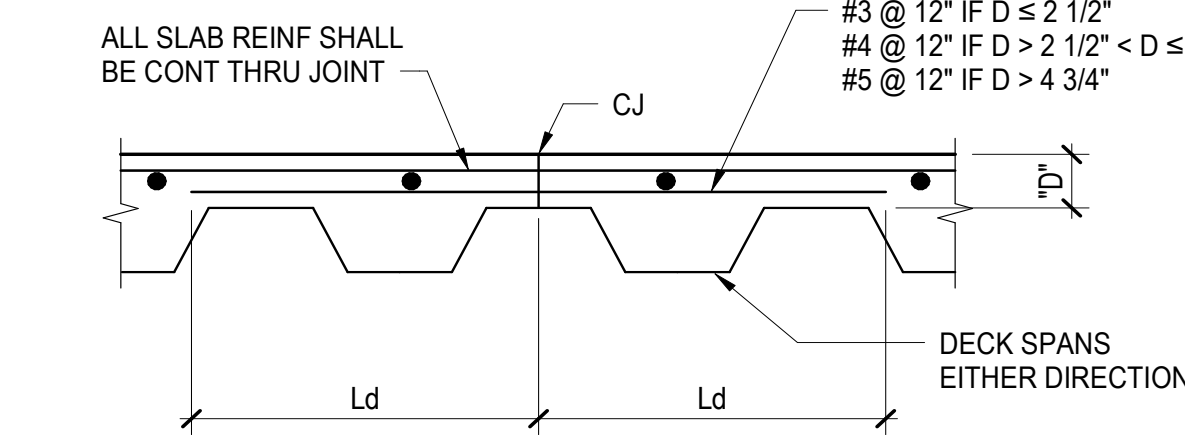
TYPICAL STUD



STAGGER DETAILS (USE AS REQUIRED)

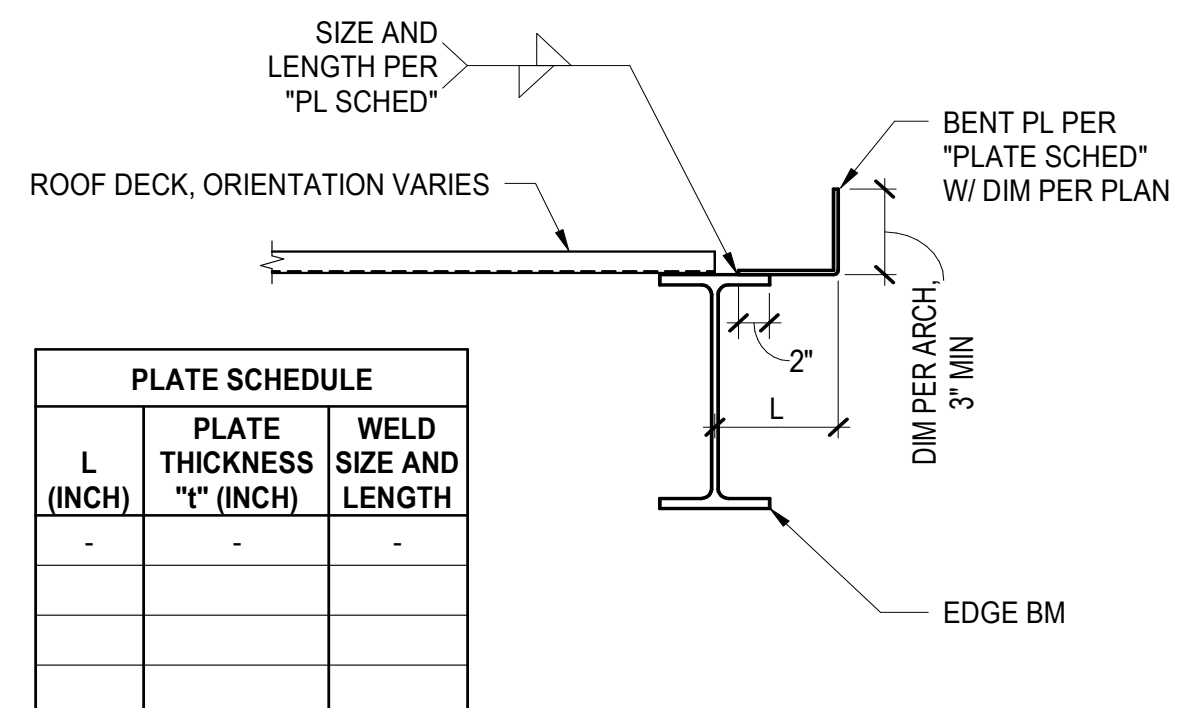
7 TYPICAL SHEAR STUD PLACEMENT AND ADDED REINFORCING

- NOTES:**
- SEE PLAN FOR REQUIRED NUMBER OF STUDS. SEE "GENERAL NOTES" FOR MINIMUM NUMBER OF STUDS AND MINIMUM STEEL COMPOSITE DECK TO STEEL BEAMS FASTENING REQUIREMENTS.
 - UNLESS NOTED OTHERWISE, STUDS ARE TO BE SPACED AS SHOWN IN THIS DETAIL AND PLACED SYMMETRICALLY ABOUT THE BEAM CENTERLINE AXIS. IF REQUIRED SPACING IS NOT POSSIBLE DUE TO DECK CONFIGURATION, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED.
 - FOR CANTILEVER SPANS, STUDS SHALL BE PLACED IN ONE ROW ALONG THE BEAM CENTERLINE AXIS AT A MAXIMUM SPACING OF 2'-0". STUDS PLACED ON THE CANTILEVER SPAN ARE NOT INCLUDED IN THE NUMBER OF STUDS SHOWN ON PLAN.
 - WHERE WELDED WIRE REINFORCING IS USED AS SLAB REINFORCEMENT, ADDITIONAL REINFORCEMENT SHALL BE PLACED PERPENDICULAR TO THE BEAM, ACROSS THE BEAM AND CANTILEVERED SPANS AS FOLLOWS:
 < 3 STUDS / FT - ADD NONE
 3 OR MORE STUDS / FT - ADD #4x5'-0" @ 12"
 - FOR BEAMS WEIGHING LESS THAN OR EQUAL TO 16 LBS/FT, STUDS SHALL BE PLACED ONLY ON THE CENTERLINE OF THE BEAM.



- NOTES:**
- SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
 - REFER TO GENERAL NOTES FOR CONSTRUCTION JOINT LOCATION REQUIREMENTS.

13 TYP SLAB ON DECK CONSTRUCTION JOINT



- NOTES:**
- FIELD INSTALL BENT PLATE WHERE REQUIRED TO SATISFY ARCHITECTURAL TOLERANCES.
 - PROVIDE PJP 1/4 (E) MIN WELD AT VERTICAL LEG TO SPLICE BENT PLATES, TYP. FOR PL THICKNESS LESS THAN 3/8", PROVIDE PJP 1/8 (E) MIN. GRIND SMOOTH AT ARCHITECTURALLY EXPOSED CONDITIONS.

18 TYPICAL ROOF DECK EDGE

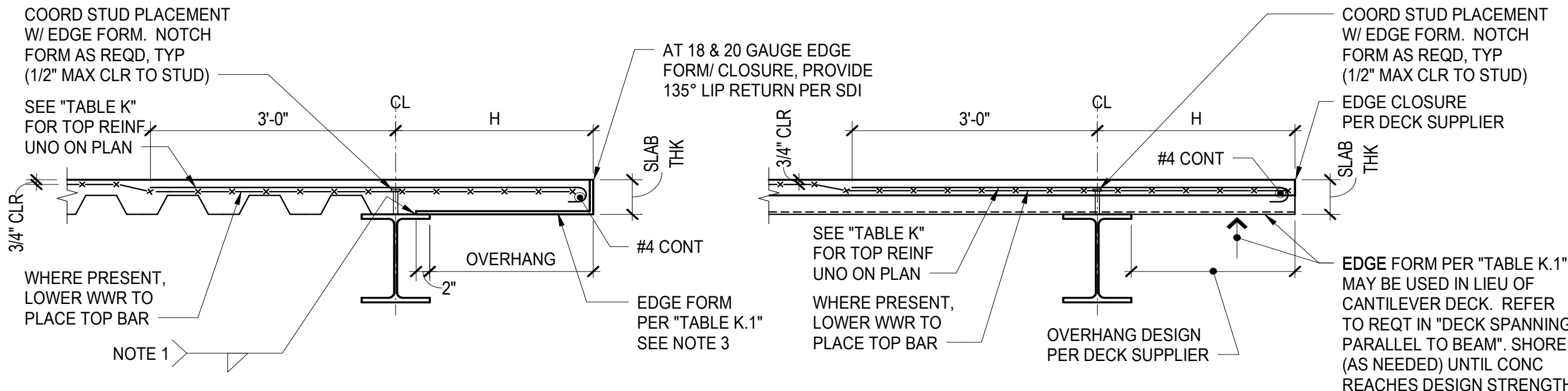
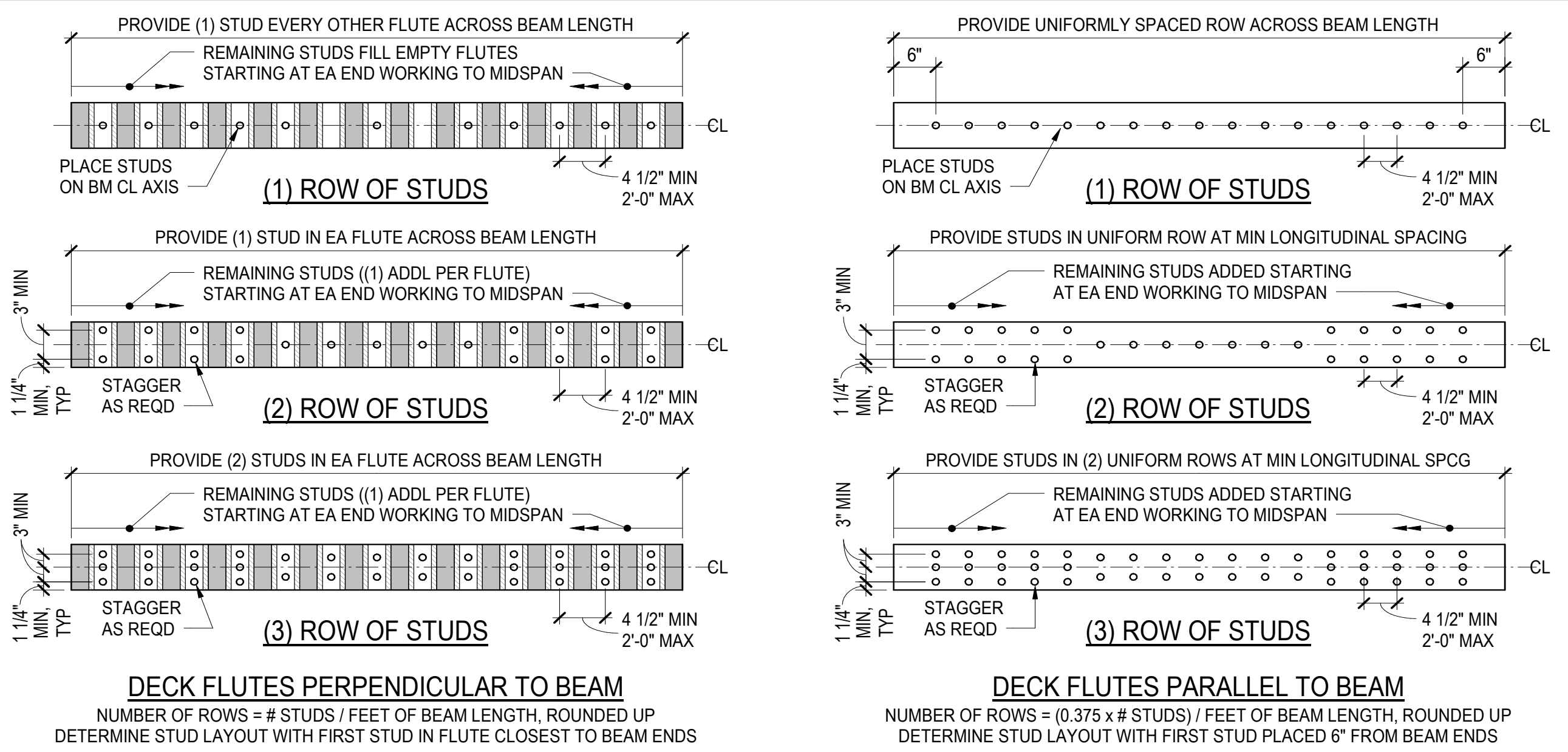
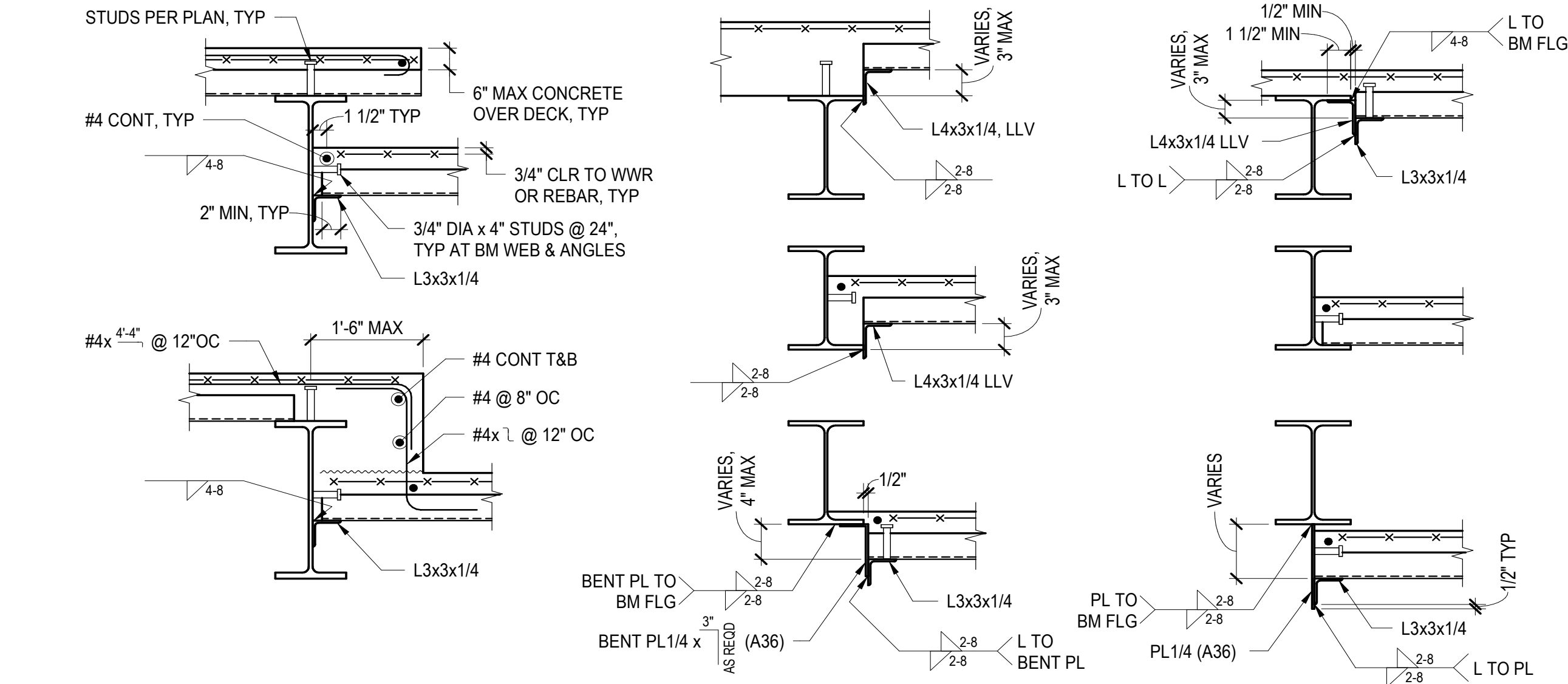
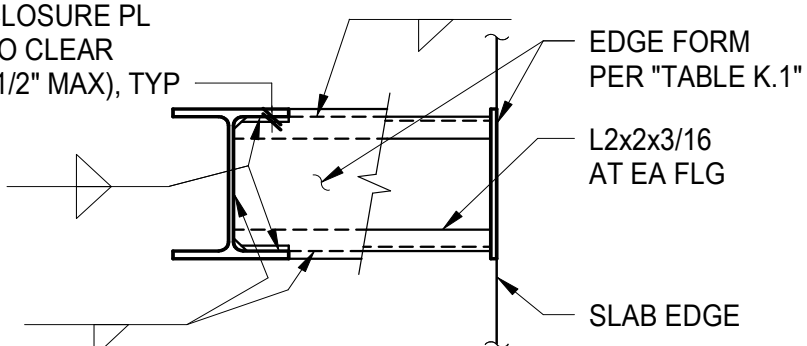


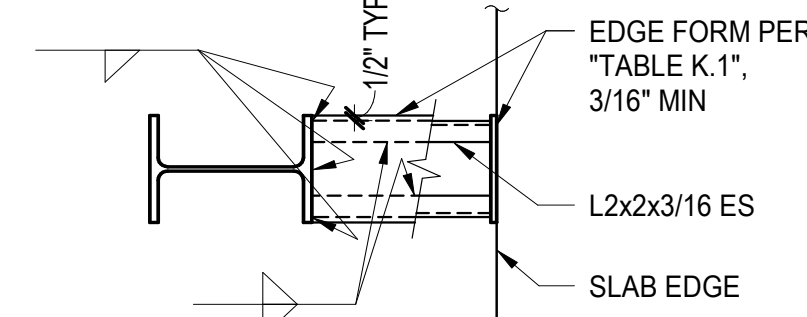
TABLE K	
H	REINFORCING
0" TO 9"	#4 @ 18"
OVER 9" TO 1'-4"	#4 @ 12"
OVER 1'-4" TO 2'-0"	#4 @ 12"
OVER 2'-0" TO 2'-6"	#4 @ 8"

TABLE K.1																		
MAX SLAB THICKNESS (IN)	SLAB EDGE CLOSURE PLATE GAUGE / THICKNESS AT DECK PARALLEL TO BEAM																	
	OVERHANG (IN)																	
	0	1	2	3	4	5	6	7	8	9	10	11	12	14	16	18		
4	20	20	20	18	16	16	16	14	14	12	12	10	10	3/16	3/16	1/4	1/4	
4.5	20	20	20	18	16	16	16	14	12	12	12	10	10	3/16	3/16	1/4	1/4	
5	20	20	18	18	16	16	16	14	14	12	12	10	10	3/16	3/16	1/4	1/4	
5.5	20	18	18	16	16	16	14	14	12	12	12	10	10	3/16	3/16	1/4	1/4	
6	20	18	16	16	14	14	12	12	12	12	10	10	10	3/16	3/16	1/4	1/4	
6.5	18	16	16	14	14	12	12	12	12	10	10	10	10	3/16	3/16	1/4	5/16	
7	18	16	14	14	12	12	12	12	10	10	10	10	10	3/16	3/16	1/4	5/16	
7.5	16	14	14	12	12	12	12	10	10	10	10	10	10	3/16	3/16	1/4	5/16	
8	16	14	12	12	12	12	10	10	10	10	10	10	10	3/16	3/16	1/4	5/16	

- NOTES:**
- WELDING SHALL BE AS FOLLOWS:
 MATERIAL: 1/8" x 1 1/2" @ 12" OC (1" MIN EA PIECE END)
 GAUGE METAL: 3/16" x 2" @ 12" OC (2" MIN EA PIECE END)
 WELD SIZE x LENGTH AT SPACING: 3/16" x 2" @ 12" OC (2" MIN EA PIECE END)
 - MATERIALS ARE TO BE AS FOLLOWS:
 18 GAUGE AND LIGHTER - ASTM A653 - Fy = 33 KSI MINIMUM.
 16 GAUGE AND HEAVIER - ASTM A653 - Fy = 50 KSI MINIMUM.
 AT CONTRACTOR'S OPTION, ASTM A36 (Fy=36 KSI MIN) MAY BE USED FOR PLATES.
 - FOR CONDITIONS WHERE SLAB EDGE EXCEEDS 18 INCH OVERHANG OR SLAB THICKNESS EXCEEDS MAX PER TABLE K.1, PROVIDE 1/4 INCH PLATE EDGE FORM AND SHORE THE EDGE UNTIL CONCRETE REACHES 28 DAY COMPRESSIVE STRENGTH.
 - AT CONTRACTOR'S OPTION, ALTERNATE METHODS OF PROVIDING EDGE CONSTRUCTION MAY BE USED AS DESIGNED BY THE CONTRACTOR. PROVIDE SHORING AND FRAMING MATERIALS AS REQUIRED.
 - THE SLAB EDGE CLOSURE PLATE IS ONLY DESIGNED TO SUPPORT WET CONCRETE AND CONSTRUCTION LOAD. DO NOT USE THE PLATE TO DIRECTLY SUPPORT CLADDING LOADS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
 - AT CORNER COLUMNS, USE BOTH "TYPICAL EDGE CONDITION AT COLUMN" DETAILS. EDGE FORM SHALL BE MITERED AND WELDED.
 - AT BLOCKOUTS FOR CLADDING CONNECTIONS, EDGE REINFORCING IS TO BE CONTINUOUS.
 - AT RECESS CONDITIONS, EDGE PLATE HEIGHT TO MATCH THE SLAB HEIGHT AT RECESS.
 - FOR ELEVATOR AND DOCK LEVELER SILLS SEE "TYPICAL ELEVATOR AND DOCK LEVELER SILL" DETAIL.
 - CONSTRUCTION LOAD AT EDGE FORM SHALL NOT EXCEED 20 PSF.
 - SEE "TYPICAL EXTENDED SLAB ON DECK EDGE" DETAIL.

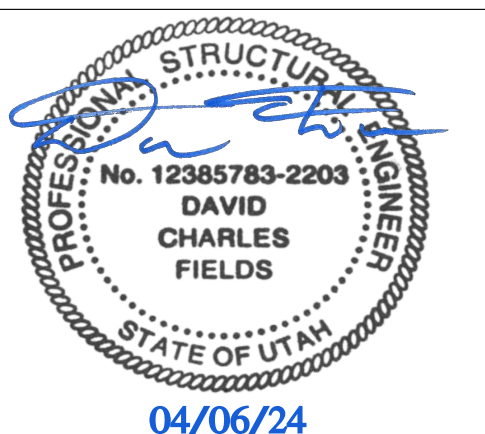


COLUMN WITH WEB PARALLEL



COLUMN WITH WEB PERPENDICULAR

TYPICAL EDGE CONDITION AT COLUMN SEE NOTE 6



Reserved for permit stamp

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 project manager _____
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 checked by _____
 job no. 20052
 date 04/08/2024

revisions:

2	04/08/2024	IFC SET 1 OF 3
1	11/16/2022	95% CD

no. date by

ISSUED FOR CONSTRUCTION
 SET 1 OF 3
 04/08/2024

TYPICAL STEEL
 DECK DETAILS

S4.14