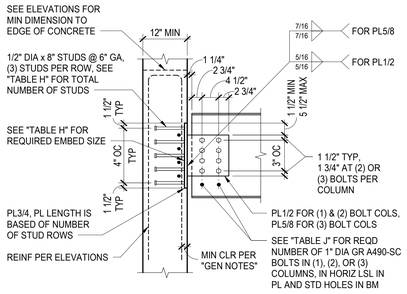


SECTION

NOTES:

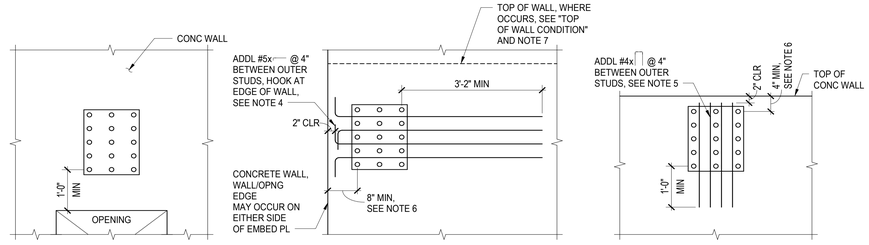
1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB.
2. DO NOT COPE STEEL BEAM FLANGES.
3. MINIMUM NUMBER OF BOLT ROWS SHALL CONFORM TO THE REQUIREMENTS OF "GENERAL NOTES FOR STEEL CONNECTIONS."
4. ADDITIONAL HORIZONTAL REINFORCEMENT MAY BE OMITTED WHERE DISTANCE FROM WALL EDGE TO CLOSEST STUD IS 2'-0" OR GREATER, OR WHERE WALL HORIZONTAL REINFORCEMENT HAS A MAXIMUM SPACING OF 8" OC FOR #4 AND #5 BARS OR 12" OC FOR #6 BARS AND GREATER.
5. ADDITIONAL VERTICAL REINFORCEMENT MAY BE OMITTED WHERE DISTANCE FROM WALL EDGE TO CLOSEST STUD IS 1'-0" OR GREATER.
6. WHEN AN EMBED HAS (21) OR MORE STUDS AND ALL STUDS ARE 12" OR GREATER FROM ANY VERTICAL AND HORIZONTAL WALL EDGES, EMBED CAPACITIES IN "TABLE H" MAY BE INCREASED BY 40%.
7. WHERE ANY STUD ON AN EMBED IS LESS THAN 12" FROM BOTH A VERTICAL AND A HORIZONTAL WALL EDGE, REDUCE EMBED CAPACITIES IN "TABLE H" BY 25%.
8. WHERE A STEEL BEAM FRAMES INTO THE END OF A WALL LESS THAN 32" THICK OR INTO THE FACE OF A COLUMN LESS THAN 32" WIDE, SEE "TYPICAL TYPE C25" DETAIL.
9. WHERE A STEEL BEAM FRAMES INTO A CONCRETE BEAM OR A CONCRETE COUPLING BEAM, SEE "TYPICAL TYPE C26" DETAIL.
10. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

TABLE H

TOTAL NUMBER OF STUDS	MAXIMUM REACTION (KIPS)						
	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PSI
9	47	52	58	62	66	71	74
12	55	61	67	72	77	82	87
15	62	70	76	83	88	94	99
18	70	78	86	93	99	105	111
21	78	87	95	103	110	117	123
24	86	96	105	113	121	129	136
27	93	104	114	124	132	140	148
30	101	113	124	134	143	152	160
33	109	122	133	144	154	163	172
36	117	130	143	154	165	175	185
39	124	139	152	165	176	187	197

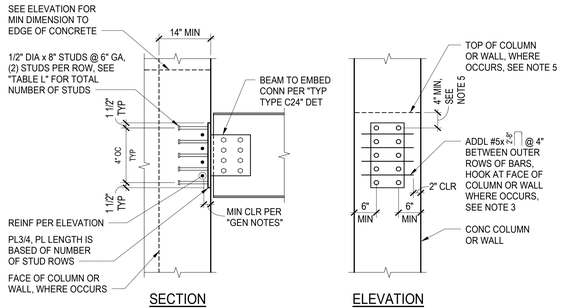
TABLE J

NUMBER OF BOLTS PER COLUMN	MAXIMUM REACTION (KIPS)		
	(1) BOLT COLUMN	(2) BOLT COLUMNS	(3) BOLT COLUMNS
2	9	19	30
3	18	33	49
4	31	53	71
5	46	75	101
6	62	100	132
7	78	128	167
8	95	158	204
9	112	189	245
10	128	221	288
11	144	253	333
12	160	286	379



FIELD OF WALL CONDITION | EDGE OF WALL CONDITION | TOP OF WALL CONDITION

8 TYPICAL TYPE C24 - STEEL CONNECTION TO CONCRETE WALL



SECTION | ELEVATION

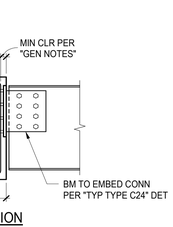
NOTES:

1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB.
2. DO NOT COPE STEEL BEAM FLANGES.
3. ADDITIONAL HORIZONTAL U-BAR REINFORCEMENT MAY BE OMITTED WHERE DISTANCE FROM WALL EDGE TO CLOSEST STUD IS 2'-0" OR GREATER, OR WHERE WALL HORIZONTAL REINFORCEMENT HAS A MAXIMUM SPACING OF 8" OC FOR #4 AND #5 BARS OR 12" OC FOR #6 BARS AND GREATER.
4. WHERE THE REACTION SHOWN ON PLAN EXCEEDS THE VALUES SHOWN IN "TABLE L", SEE "TYPICAL TYPE C27" DETAIL.
5. WHERE TOP ROW OF STUDS IS LESS THAN 12" FROM TOP OF WALL OR COLUMN, REDUCE EMBED CAPACITIES IN "TABLE L" BY 30%.
6. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

TABLE L

TOTAL NUMBER OF STUDS	MAXIMUM REACTION (KIPS)						
	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PSI
6	42	47	49	49	49	49	49
8	47	53	58	63	66	66	66
10	52	59	64	69	74	79	82
12	58	64	71	76	82	87	91
14	63	70	77	83	89	94	99
16	68	76	83	90	96	102	108
18	73	82	90	97	104	110	116
20	78	88	96	104	111	118	124
22	83	93	102	110	118	125	132
24	89	99	109	117	125	133	140
26	94	105	115	124	133	141	149

13 TYPICAL TYPE C25 - STEEL CONNECTION TO CONCRETE COLUMN OR END OF WALL



SECTION

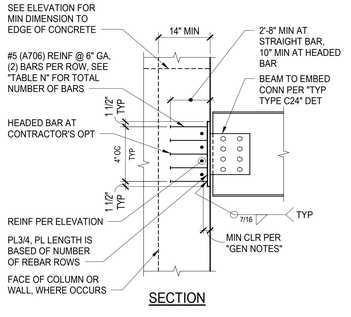
NOTES:

1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB.
2. DO NOT COPE STEEL BEAM FLANGES.
3. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

TABLE M

TOTAL NUMBER OF STUDS	MAXIMUM REACTION (KIPS)						
	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI	f'c = 7,000 PSI	f'c = 8,000 PSI	f'c = 9,000 PSI	f'c = 10,000 PSI
9	22	24	27	29	31	33	34
12	27	30	33	36	39	41	43
15	33	37	40	43	46	49	52
18	38	43	47	51	54	57	61
21	44	49	54	58	62	66	69
24	49	55	60	65	70	74	78
27	55	61	67	73	78	82	87
30	60	67	74	80	85	91	96
33	66	74	81	87	93	99	104
36	71	80	87	94	101	107	113
39	77	86	94	102	109	115	122

16 TYPICAL TYPE C26 - STEEL CONNECTION TO CONCRETE BEAM



SECTION | ELEVATION

NOTES:

1. EMBED AND SHEAR TAB SHALL BE SIZED FOR THE REACTION SHOWN ON PLAN. CONTRACTOR SHALL VERIFY THAT SELECTED EMBED SIZE IS ADEQUATE TO RECEIVE SHEAR TAB.
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3. ADDITIONAL HORIZONTAL U-BAR REINFORCEMENT MAY BE OMITTED WHERE DISTANCE FROM WALL EDGE TO CLOSEST STUD IS 2'-0" OR GREATER, OR WHERE WALL HORIZONTAL REINFORCEMENT HAS A MAXIMUM SPACING OF 8" OC FOR #4 AND #5 BARS OR 12" OC FOR #6 BARS AND GREATER.
4. ALL PLATES SHALL HAVE Fy = 50 KSI MINIMUM.

TABLE N

TOTAL NUMBER OF #5 BARS	MAXIMUM REACTION (KIPS)
6	48
8	67
10	86
12	105
14	124
16	144
18	163
20	182
22	201
24	220
26	240

18 TYPICAL TYPE C27 - HEAVY STEEL CONNECTION TO CONCRETE COLUMN OR WALL

PROFESSIONAL ENGINEER
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STATE OF UTAH
04/06/24
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project manager
drawn by
checked by
job no. 20052
date 04/08/2024

revisions:

no.	date	by
2	04/08/2024	IFC SET 1 OF 3
1	11/18/2022	95% CD

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

TYPICAL STEEL BEAM CONNECTIONS TO CONCRETE

S4.13