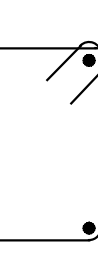
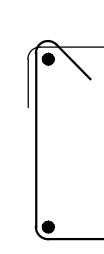
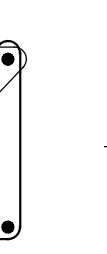
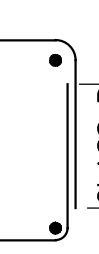


CONCRETE COLUMN SCHEDULE					
MARK	SIZE (in)		REINFORCING		REMARKS
	a	b	VERTICAL	CLOSED TIES	
TC 1	8	12	4#5	#3 @ 8"O.C.	TYPE I
TC 2	8	18	6#5	#3 @ 8"O.C.	TYPE II
TC 3	8	20	8#5	#3 @ 8"O.C.	TYPE III
TC 4	12	24	10#5	#3 @ 10"O.C.	TYPE V
TC 5	12	20	10#5	#3 @ 10"O.C.	TYPE V
TC 6	12	12	8#5	#3 @ 10"O.C.	TYPE IV
TC 7	12	15	8#5	#3 @ 10"O.C.	TYPE IV
TC 8	SEE DETAIL		16#6	#3 @ 10"O.C.	
TC 9	8	14	4#5	#3 @ 8"O.C.	TYPE I
TC 10	8	21	8#5	#3 @ 8"O.C.	TYPE III
TC 11	8	34	10#5	#3 @ 8"O.C.	TYPE VII
TC 12	8	35	10#5	#3 @ 8"O.C.	TYPE VII
TC 13	8	24	8#5	#3 @ 8"O.C.	TYPE III
TC 14	SEE DETAIL		16#5	#3 @ 8"O.C.	
TC 15	SEE DETAIL		12#5	#3 @ 8"O.C.	
TC 16	SEE DETAIL		7#5	#3 @ 8"O.C.	
CC 1	8	18	6#5	#3 @ 8"O.C.	TYPE II
CC 2	8	12	4#5	#3 @ 8"O.C.	TYPE I
CC 3	8	15	4#5	#3 @ 8"O.C.	TYPE I
CC 4	12	12	8#5	#3 @ 10"O.C.	TYPE IV
CC 5	12	24	10#5	#3 @ 10"O.C.	TYPE V
CC 6	12	31	12#5	#3 @ 10"O.C.	TYPE VI
CC 7	SEE DETAIL		8#6	#3 @ 10"O.C.	
CC 8	SEE DETAIL		14#6	#3 @ 10"O.C.	
CC 9	SEE DETAIL		15#5	#3 @ 10"O.C.	
CC 10	SEE DETAIL		20#7	#3 @ 10"O.C.	
CC 11	8	15	4#5	#3 @ 8"O.C.	TYPE I
CC 12	SEE DETAIL		18#5	#3 @ 8"O.C.	
COMPRESSION SPLICE LENGTH SCHEDULE (L _{AC})					
#3 THRU #11 BARS	GREATER OF 30 BAR DIAMETER AND 12" FOR ALL CONCRETE STRENGTHS. WHEN SPLICING BARS OF DIFFERENT SIZE L _{AC} SHALL BE THE GREATER OF L _{AC} OF THE LARGER BAR AND L _{AC} OF THE SMALLER BAR				
#14 AND #18 BARS	LAP SPLICE NOT PERMITTED; USE MECHANICAL OR WELDED SPLICE PER ACI 318 SECTION 25.5.7				
					
TYPE B	TYPE C	TYPE D	TYPE E		

STANDARD HOOK LENGTH SHALL BE THE GREATER OF 6 BAR AND 3".

TERMINATE HOOK POSITION OF EACH SUCCESSIVE CROSSTIE.

Diagram illustrating the development length of a lap splice in a corner. The top part shows a corner joint with dimensions: L_{dh} (development length), $2\frac{1}{2}$ inch COVER MIN. (cover), STANCHION (stanchion), $17d_b$ (development length), D (bar diameter), and FACE OF CONCRETE (face of concrete). The bottom part shows a lap splice with dimensions: L_d (development length), L_{dc} (development length), and d_b (bar diameter).

DEVELOPMENT LENGTH DIAGRAM

Diagram illustrating the development length of a lap splice. The top part shows a lap splice with dimensions: L_{sc}^* (lap splice length), d_1 (bar diameter), d_2 (bar diameter), and L_{st}^{**} (lap splice length). The bottom part shows a lap splice with dimensions: L_{st}^{**} (lap splice length), d_1 (bar diameter), d_2 (bar diameter), and L_{st}^{**} (lap splice length).

- * IF $d_1 \neq d_2$, LAP SPLY LENGTH SHALL BE THE GREATER OF THE DEVELOPMENT LENGTH OF THE BIGGER BAR AND THE LAP LENGTH OF THE SMALLER BAR
- ** CONTACT LAP SPLY = 0" NON-CONTACT LAP SPLY ≤ 8 L OR 6"

LAP SPLY LENGTH DIAGRAM

TENSION LAP SPLICE LENGTH SCHEDULE							
CONCRETE STRENGTH		3000 psi		4000 psi		5000 psi	
		Lst		Lst		Lst	
		TOP ^a BARS	OTHER BARS	TOP ^a BARS	OTHER BARS	TOP ^a BARS	OTHER BARS
BAR SIZE	# ≤ #6	74 ₆	57 ₆	64 ₆	50 ₆	58 ₆	44 ₆
	# ≥ #7	93 ₆	71 ₆	80 ₆	62 ₆	72 ₆	55 ₆
	#3	28	22	24	19	22	17
	#4	37	29	32	25	29	22
	#5	47	36	40	31	36	28
	#6	56	43	48	37	43	33
	#7	81	63	70	54	63	49
	#8	93	72	80	62	72	53
	#9	105	81	91	70	81	62
	#10	118	91	102	79	91	70
#11	131	101	113	87	101	78	

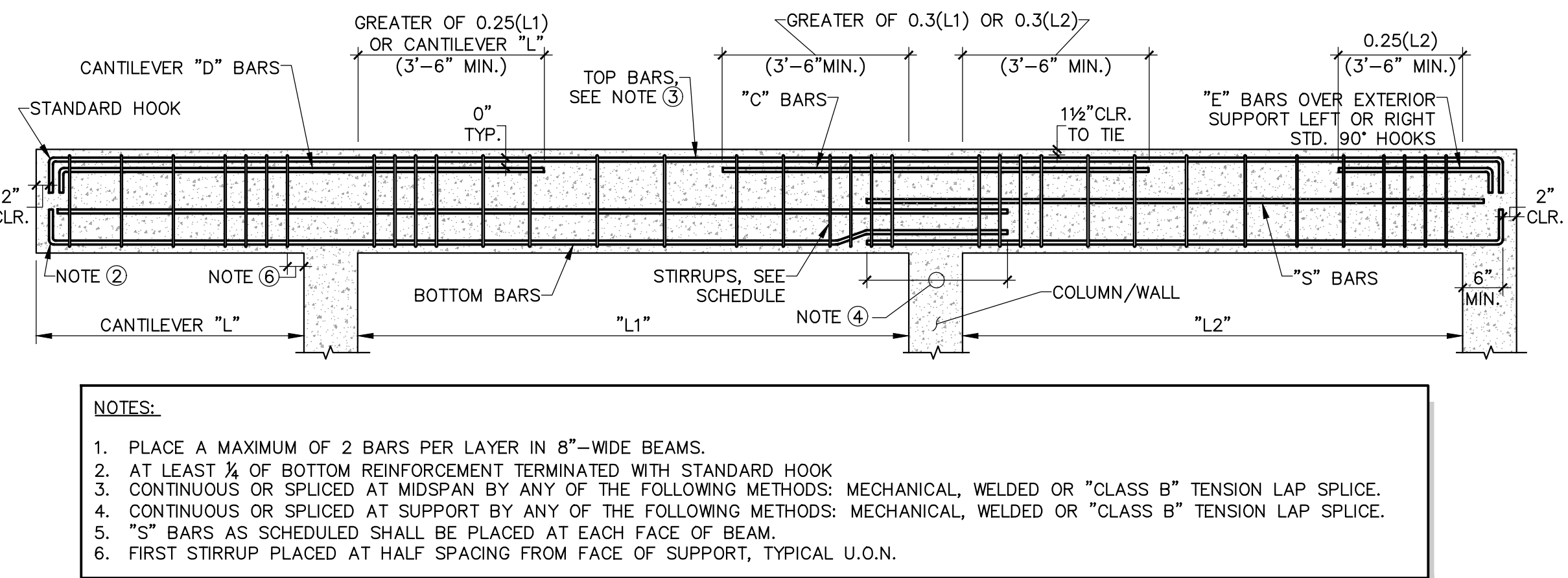
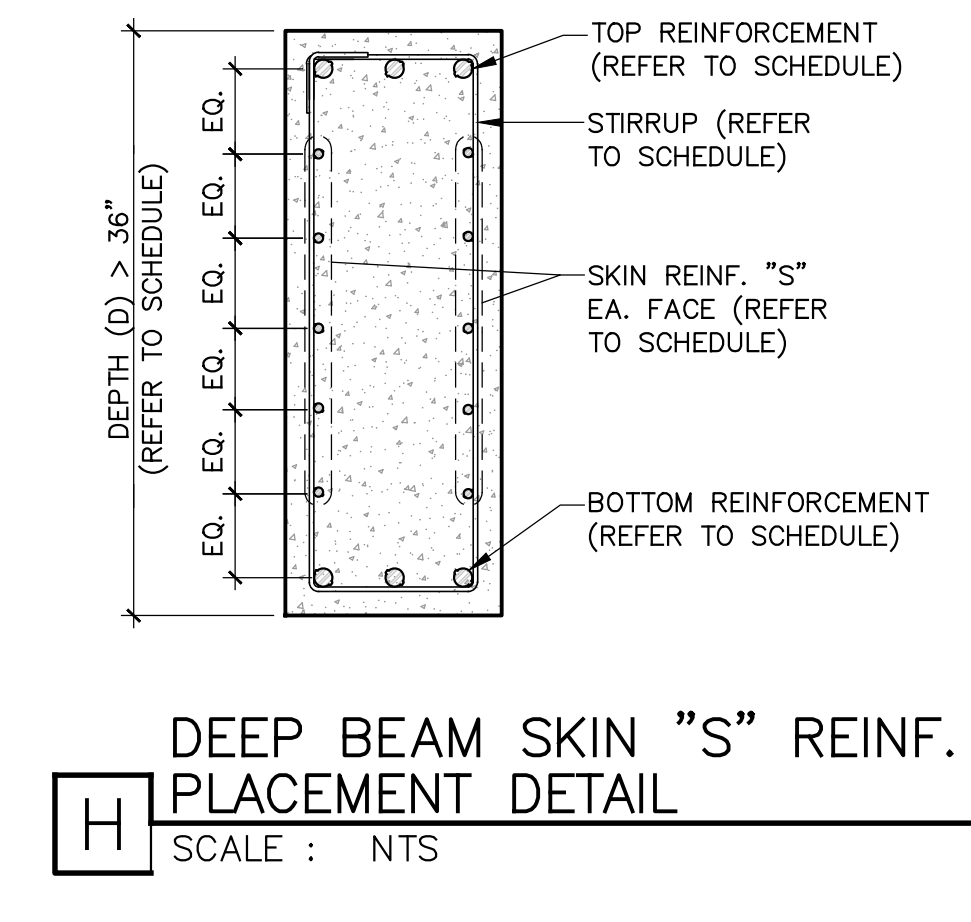
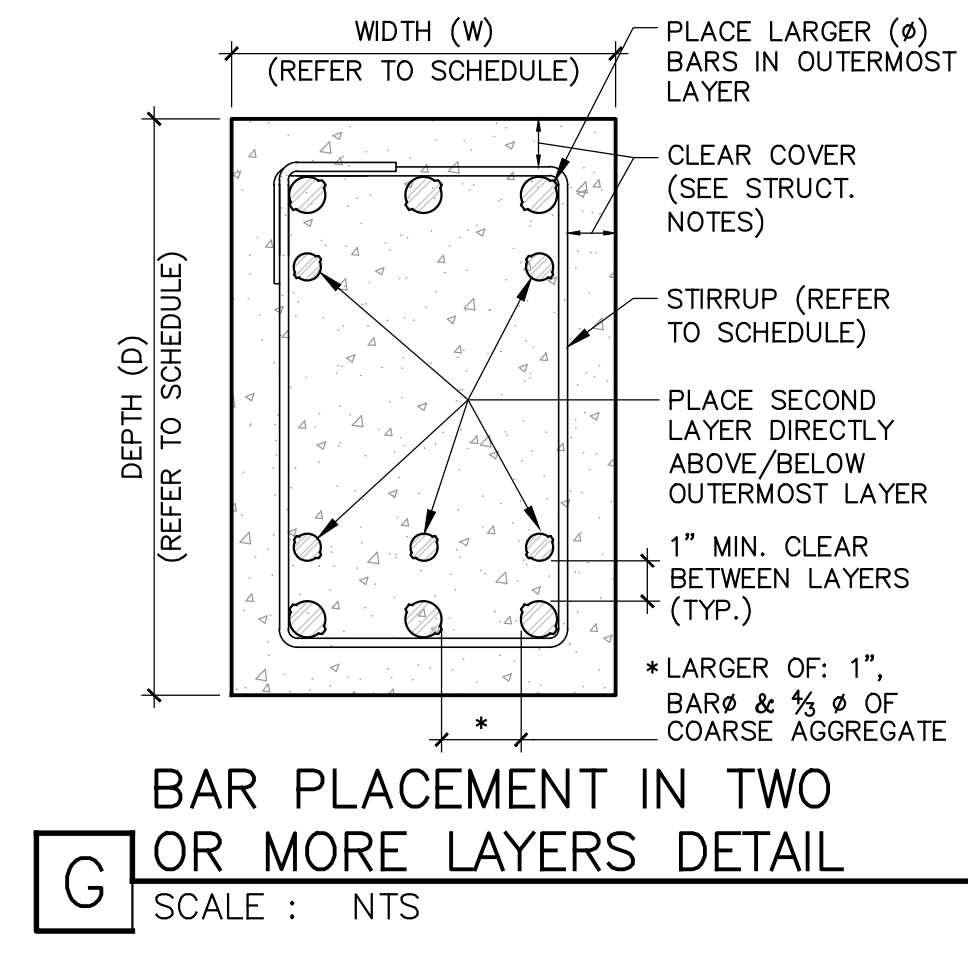
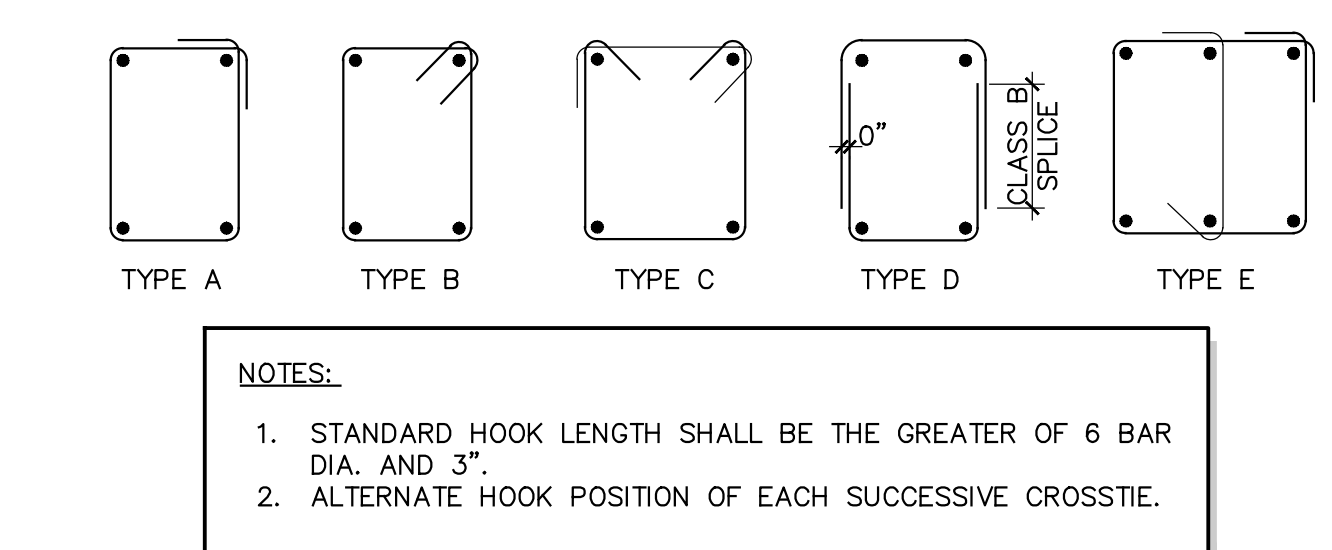
NOTES:

a. TABULATED VALUES ARE BASED ON UNCOATED OR ZINC-COATED BARS WITH MINIMUM YIELD STRENGTH OF 60,000 PSI AND NORMAL-WEIGHT CONCRETE.

b. TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-14 SECTION 25.5, AND REPRESENT "CLASS B" SPLICE TYPE. FOR "CLASS A" SPLICE DIVIDE BY A FACTOR OF 1.3

c. APPLICABLE TO TOP BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED UNDERneath, CONFORMING TO ACI 318-14 SECTION 25.4.2.4.

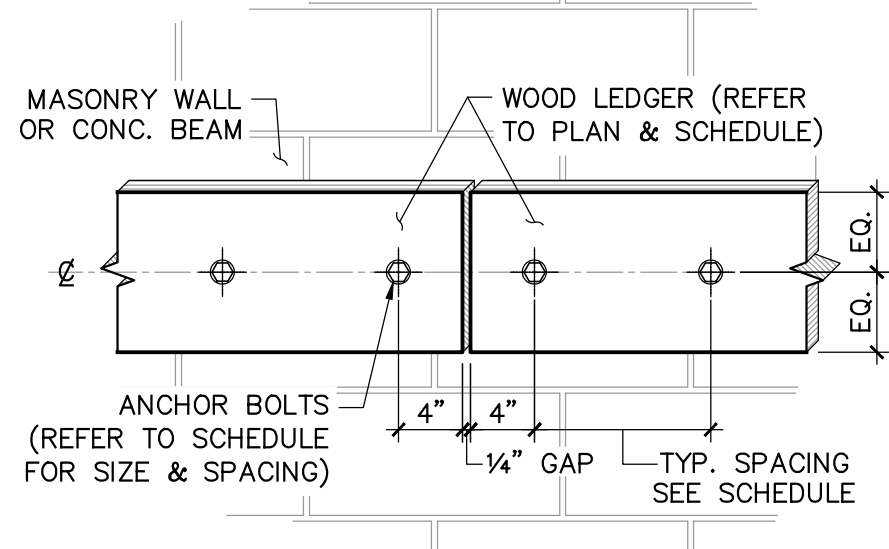
d. Lst: TENSION LAP SPLICE LENGTH



WOOD LEDGER SCHEDULE					
MARK	LEDGER		FASTENERS		
	QTY	SECTION	DIA.	SPACING	EMB. LENGTH
L-1	2	2x10	¾"	@ 16"O.C.	4"

NOTES:

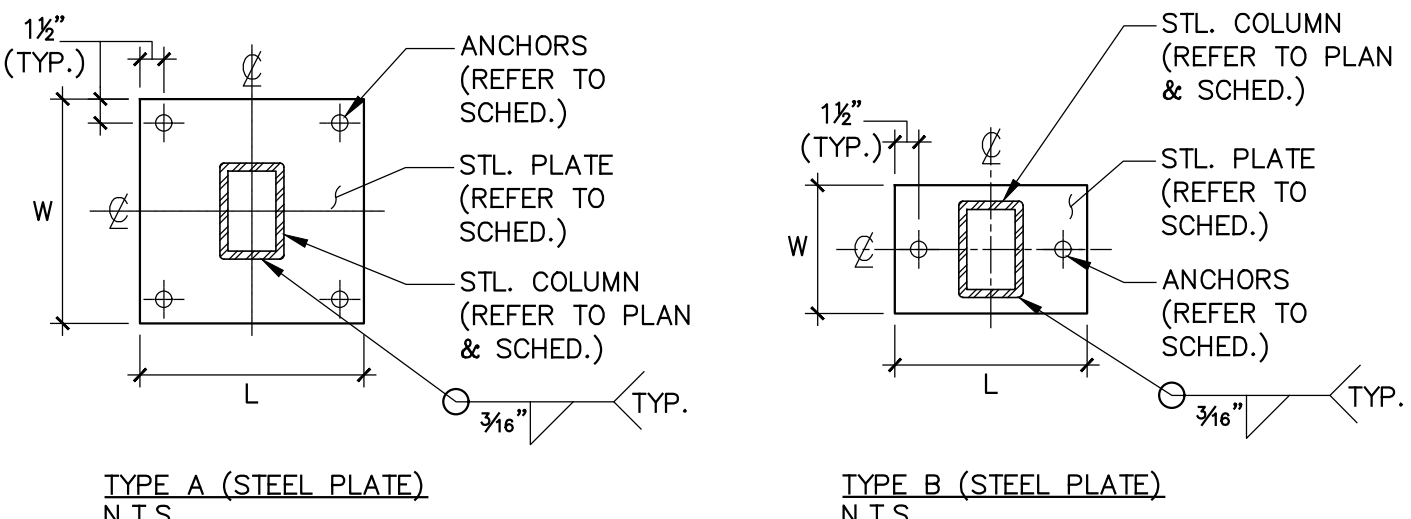
1. ALL BOLTS SHALL BE "SIMPSON STRONG-TIE" STRONG-BOLT 2 EXPANSION ANCHORS
2. WHERE BOLTS OCCUR IN HOLLOW MASONRY UNITS, THE CELL SHALL BE GROUVED 8" ABOVE AND BELOW PLACEMENT OF BOLT.
3. ALL LEDGER SHALL BE PRESSURE TREATED (P.T.) LUMBER.



MARK	DESCRIPTION	BASE PLATE			CAP PLATE			REMARKS
		SIZE (in)	ANCHORS	TYPE	SIZE (in)	ANCHORS	TYPE	
SC 1	HSS5x5x8	W4"x10@-10"	(4)-9x9" HEADED STUDS, 6" LONG	A	W4"x7@-10"	(2)-9x9" HEADED STUDS, 6" LONG	B	
SC 2	HSS6x6x8	W4"x10@-10"	(4)-9x9" HEADED STUDS, 5" LONG	A	W4"x7@-10"	(2)-9x9" HEADED STUDS, 5" LONG	B	
SC 3	HSS5x5x4	W4"x10@-10"	(4)-1/2" SCREW BOLT+ COUNTERSUNK FLAT HEAD BY DEFAULT 5" LONG	A	W4"x7@-10"	(4)-1/2" SCREW BOLT+ COUNTERSUNK FLAT HEAD BY DEFAULT 5" LONG	B	

NOTES:

- ALL STEEL COLUMNS SHALL BE GROUT FILLED (3000 PSI MIN.) ALLOW A 7/32" OPENING ON CAP PLATE FOR GROUTING.
- PROVIDE REINFORCE REEF HOLES AT BOTTOM, TOP AND AT MID-HEIGHT.
- SHIP WELD BASE AND CAP PLATES.
- ASTM A500 GRADE B WITH Fy = 46 KSI FOR RECTANGULAR SECTIONS AND Fy = 42 KSI FOR ROUND SECTIONS.



F STEEL COLUMN PLATE DETAILS

E WOOD LEDGER FASTENER PLACEMENT DETAIL