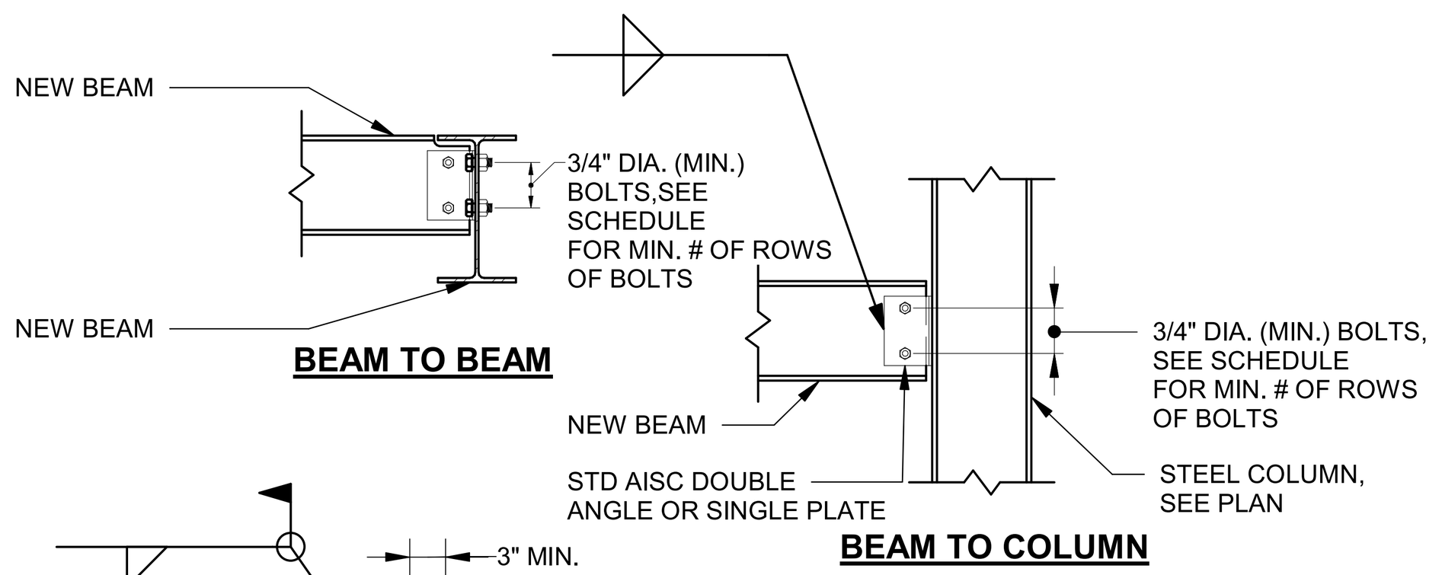
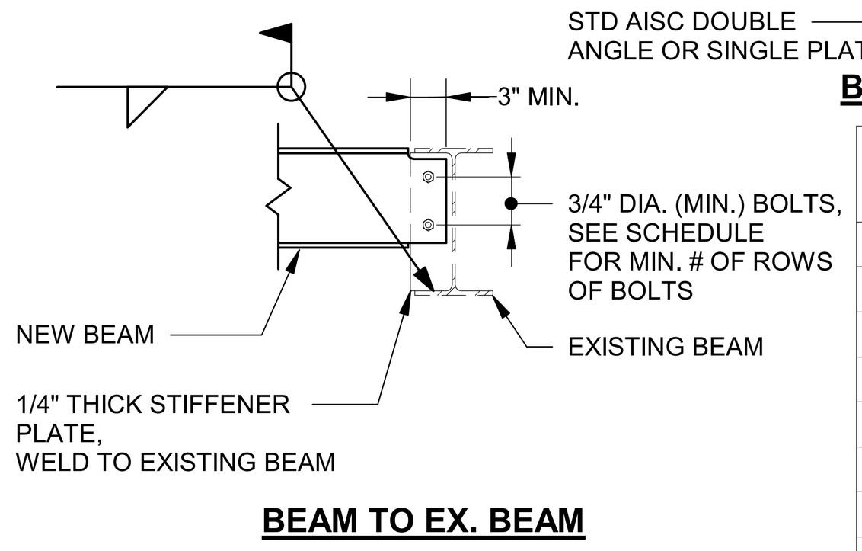




BEAM SIZE	MIN. # OF ROWS OF BOLTS
W8, C8	2
W10	3
W12	3
W14	4
W16	5
W18	5
W21	6
W24	7
W30	9

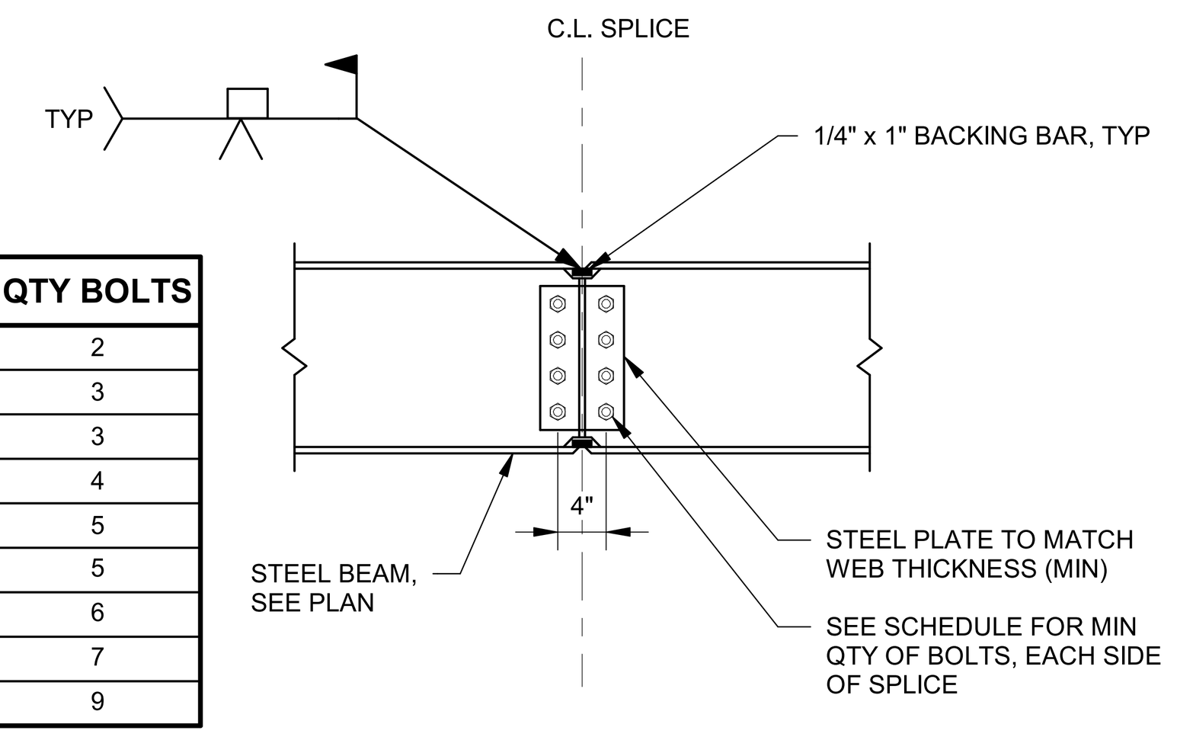
NOTES:

1. ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR THE MAXIMUM OF THE FOLLOWING:
   A. THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER WITH DUE CONSIDERATION OF CONCENTRATED LOADS.
   B. BEAM REACTION IDENTIFIED ON PLAN.
   C. MINIMUM REACTION OF 6 KIPS.
   D. MINIMUM QUANTITY OF BOLTS PER SCHEDULE.
2. BOLTED CONNECTIONS SHALL USE NO LESS THAN TWO 3/4" DIA. ASTM A 325N OR A 490 HIGH STRENGTH BOLTS. CONFORM TO AISC SPECIFICATION "STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS".
3. UNLESS OTHERWISE INDICATED, ALL WELDED CONNECTIONS SHALL USE W70XX ELECTRODES.

1 TYPICAL AISC SHEAR CONNECTIONS

SCALE: 3/4" = 1'-0"

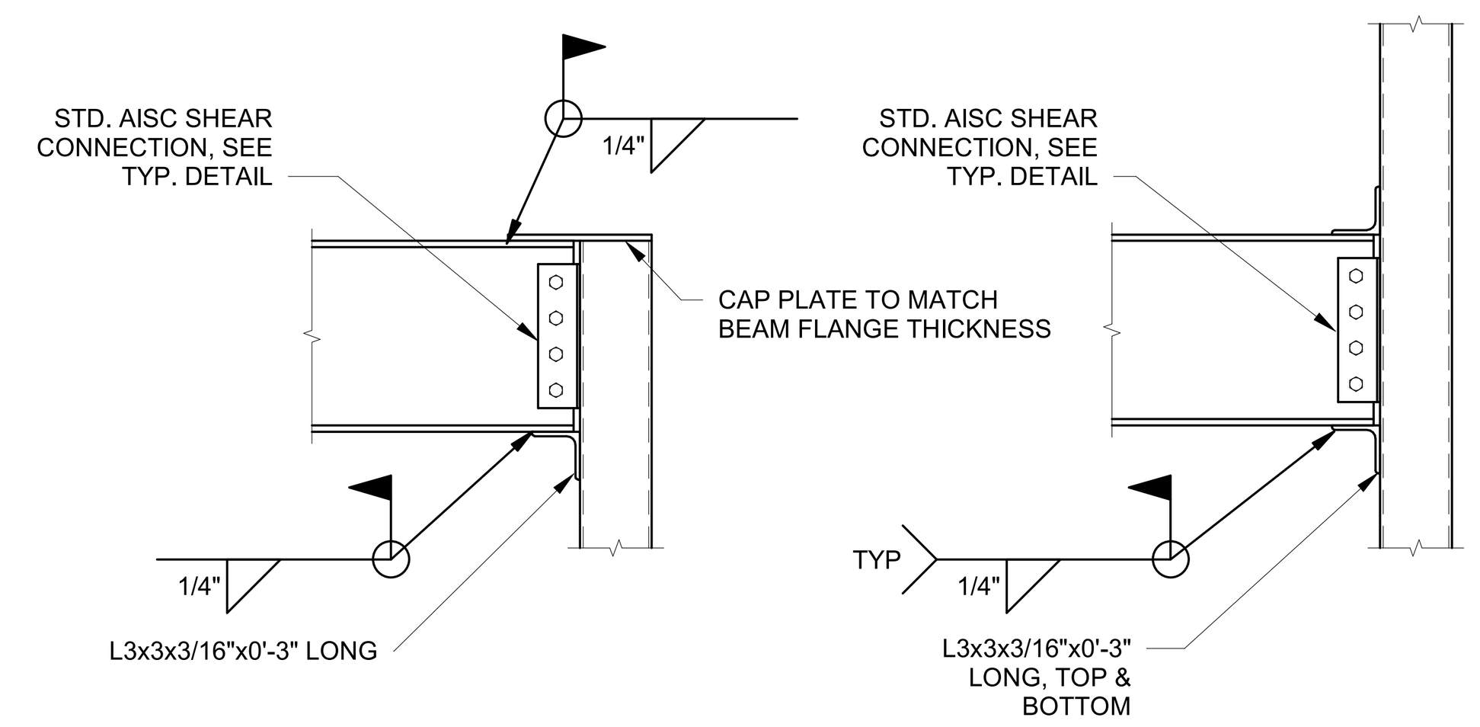
BEAM SIZE	QTY BOLTS
W8, C8	2
W10	3
W12	3
W14	4
W16	5
W18	5
W21	6
W24	7
W30	9



NOTE: FIELD SPLICE LOCATIONS MUST BE APPROVED BY ENGINEER PRIOR TO FABRICATION.

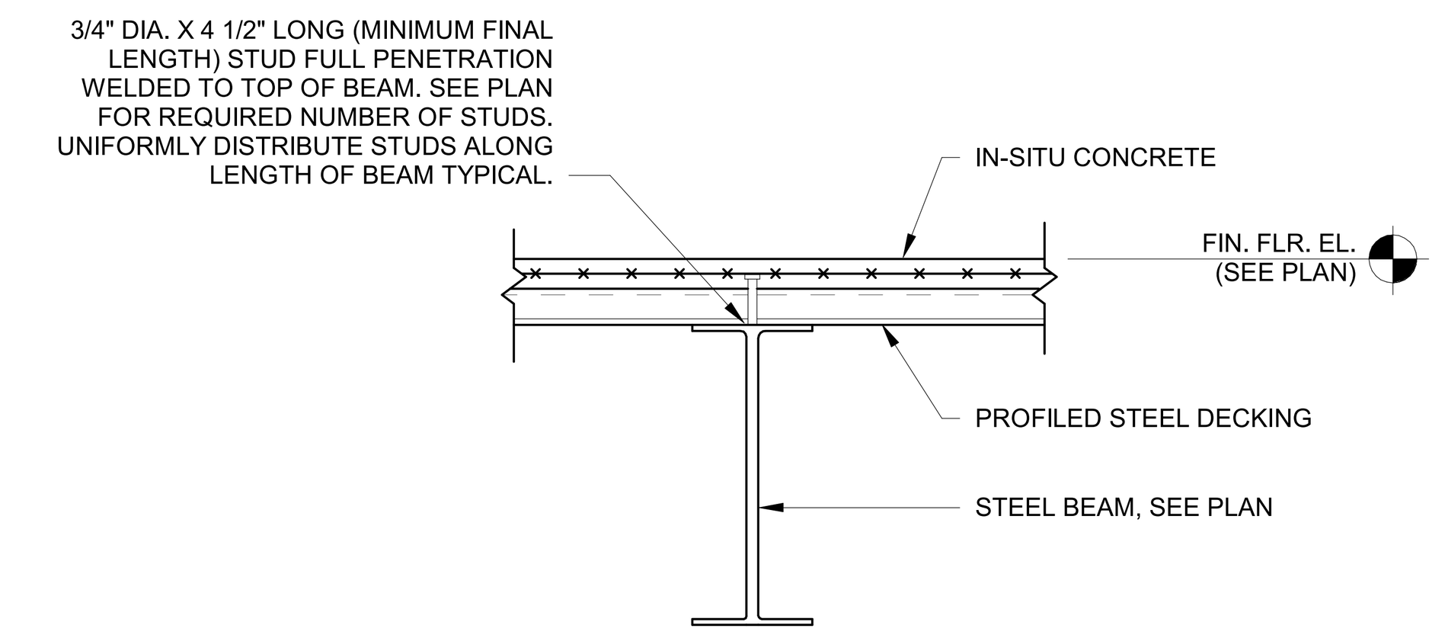
2 TYPICAL FIELD SPLICE

SCALE: 3/4" = 1'-0"



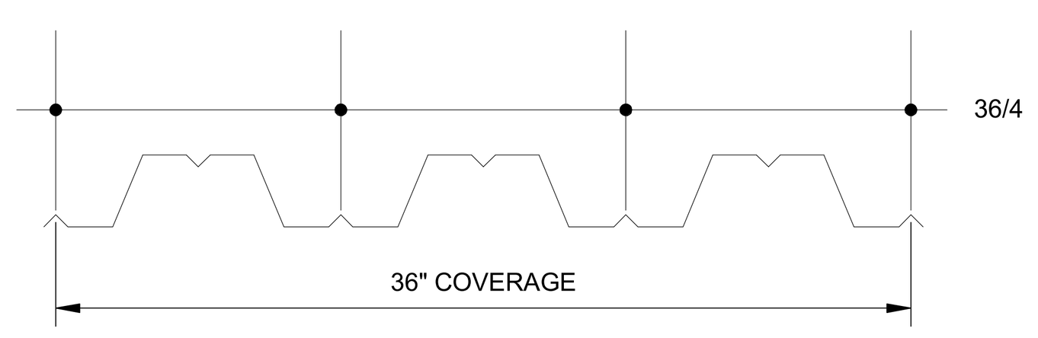
3 TYPICAL HSS COLUMN MOMENT CONNECTIONS

SCALE: 3/4" = 1'-0"



4 TYPICAL COMPOSITE BEAM DETAIL

SCALE: 3/4" = 1'-0"

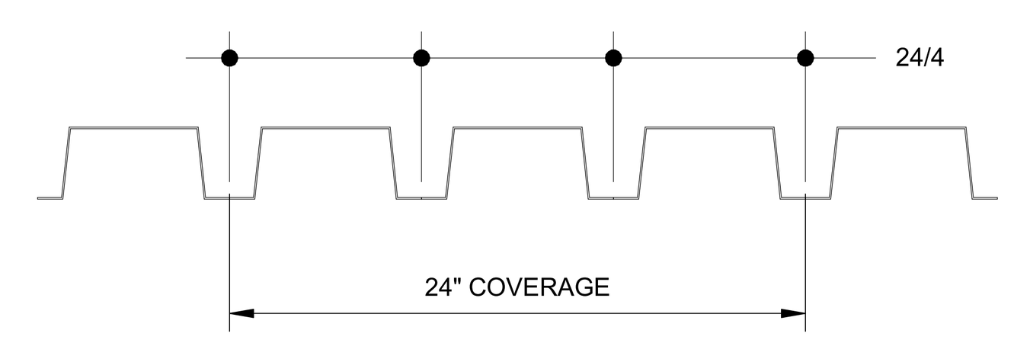


DECK PROPERTIES
TYPE: VL
DEPTH: 3"
GAGE: 20
Ip: 0.195 in^4
In: 0.222 in^4
Sp: 0.231 in^4
Sn: 0.240 in^3

CONNECTION TYPE
PATTERN: 36/4
SUPPORT: 3/8" PUDDLE WELDS AT STEEL BEAMS
#12 TEK SCREWS
SIDE LAP: #10 TEK AT 36" OC, MAX

5 TYPE "VL" METAL FLOOR DECK

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



DECK PROPERTIES
TYPE: N
DEPTH: 3"
GAGE: 22
I_p: 0.714 in⁴
I_n: 0.869 in⁴
S_p: 0.368 in³
S_n: 0.419 in³

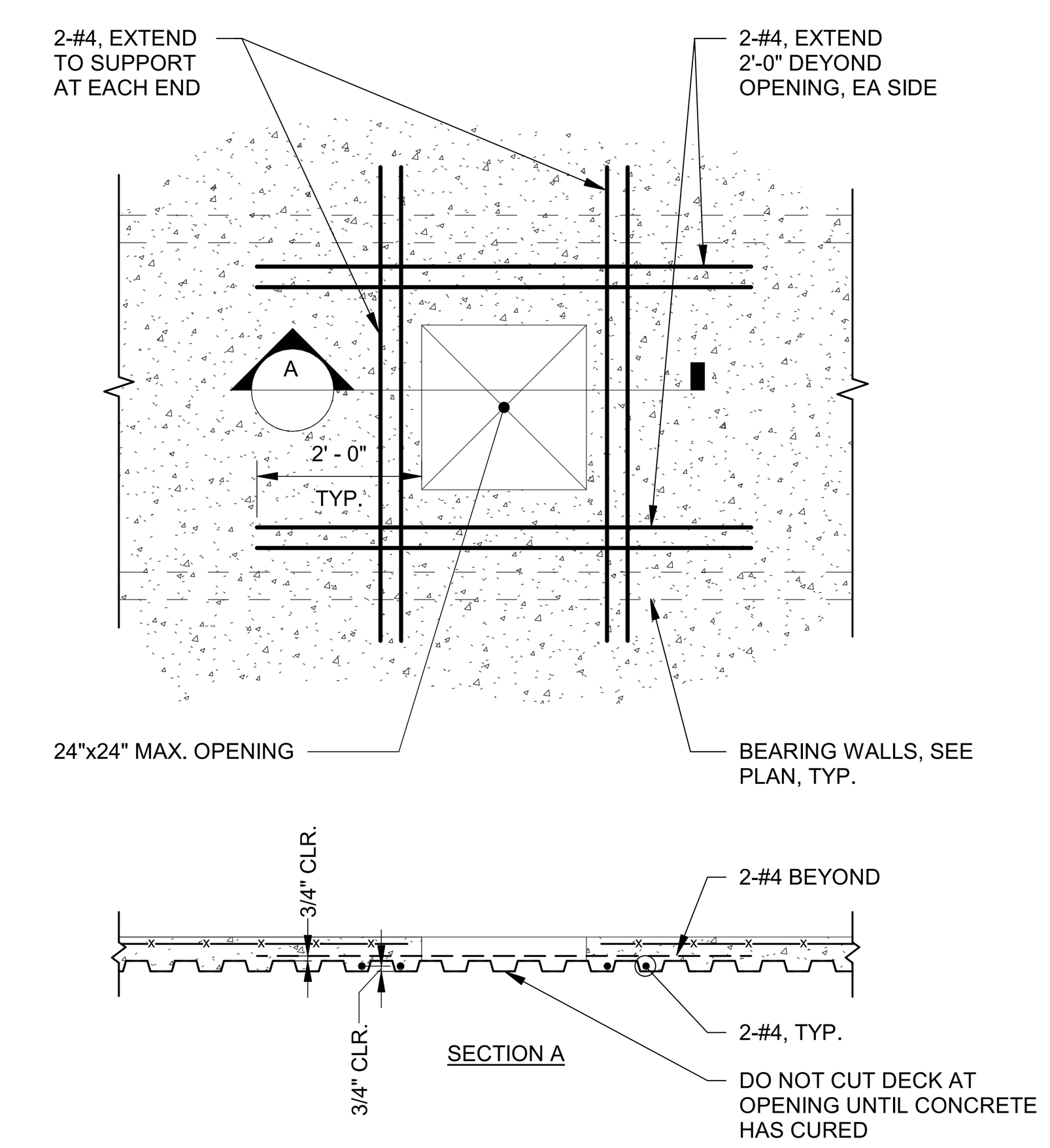
CONNECTION TYPE
PATTERN: 24/4
SUPPORT: 5/8" PUDDLE WELD AT STEEL BEAMS
(2) #12 TEK SCREWS
PERIMETER: #12 TEK SCREW AT 8" OC, MAX
SIDE LAP: #10 TEK AT 24" OC, MAX.

NOTE:

DECK SHALL BE PLACED IN CONTINUOUS SHEETS WITH A MINIMUM OF 3 SPAN SUPPORT CONDITION WHERE POSSIBLE. PROVIDE TEMPORARY SHORING AT ONE OR TWO SPAN CONDITIONS PER MANUFACTURER RECOMMENDATIONS.

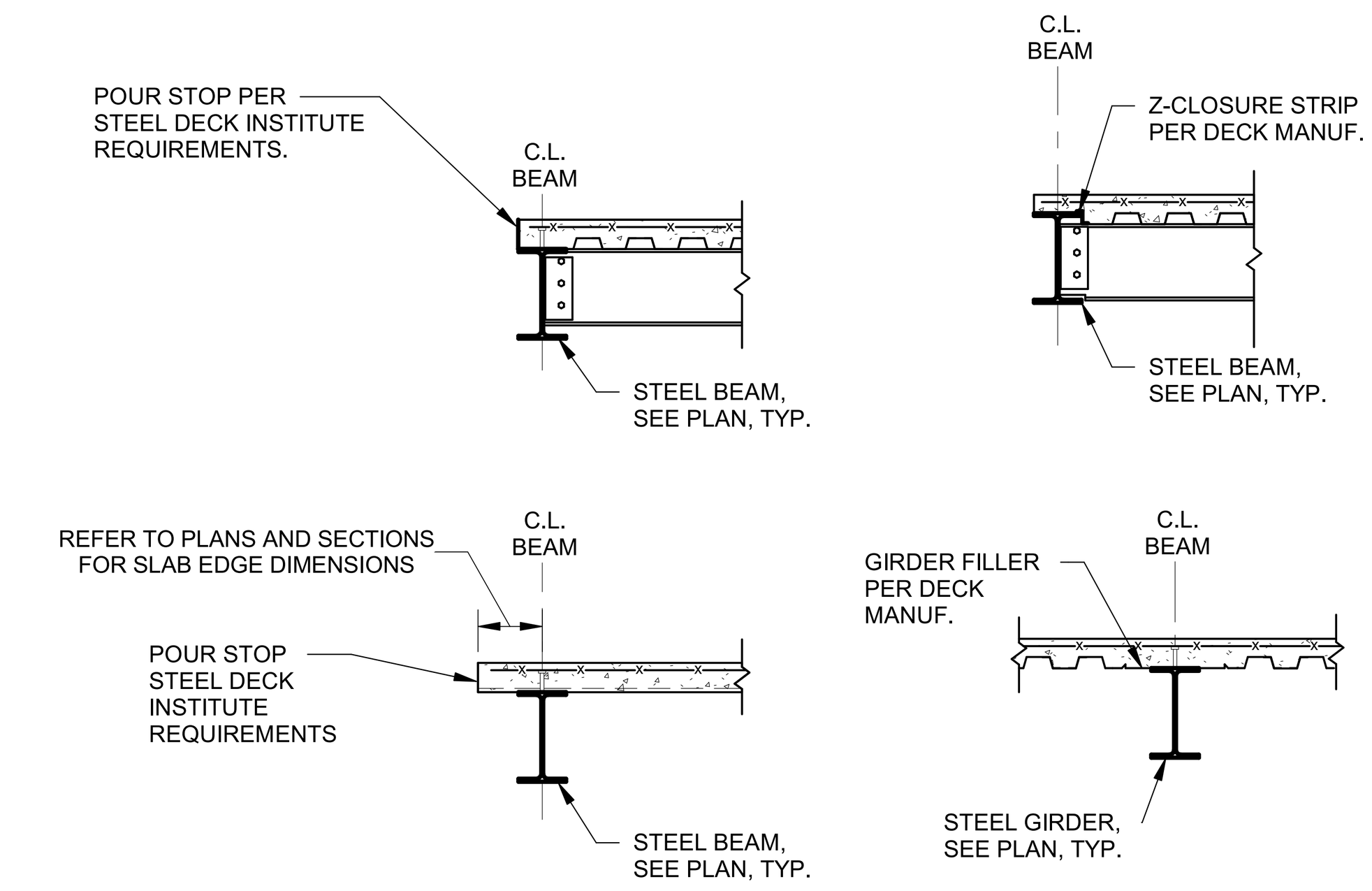
6 TYPE "N" METAL ROOF DECK

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



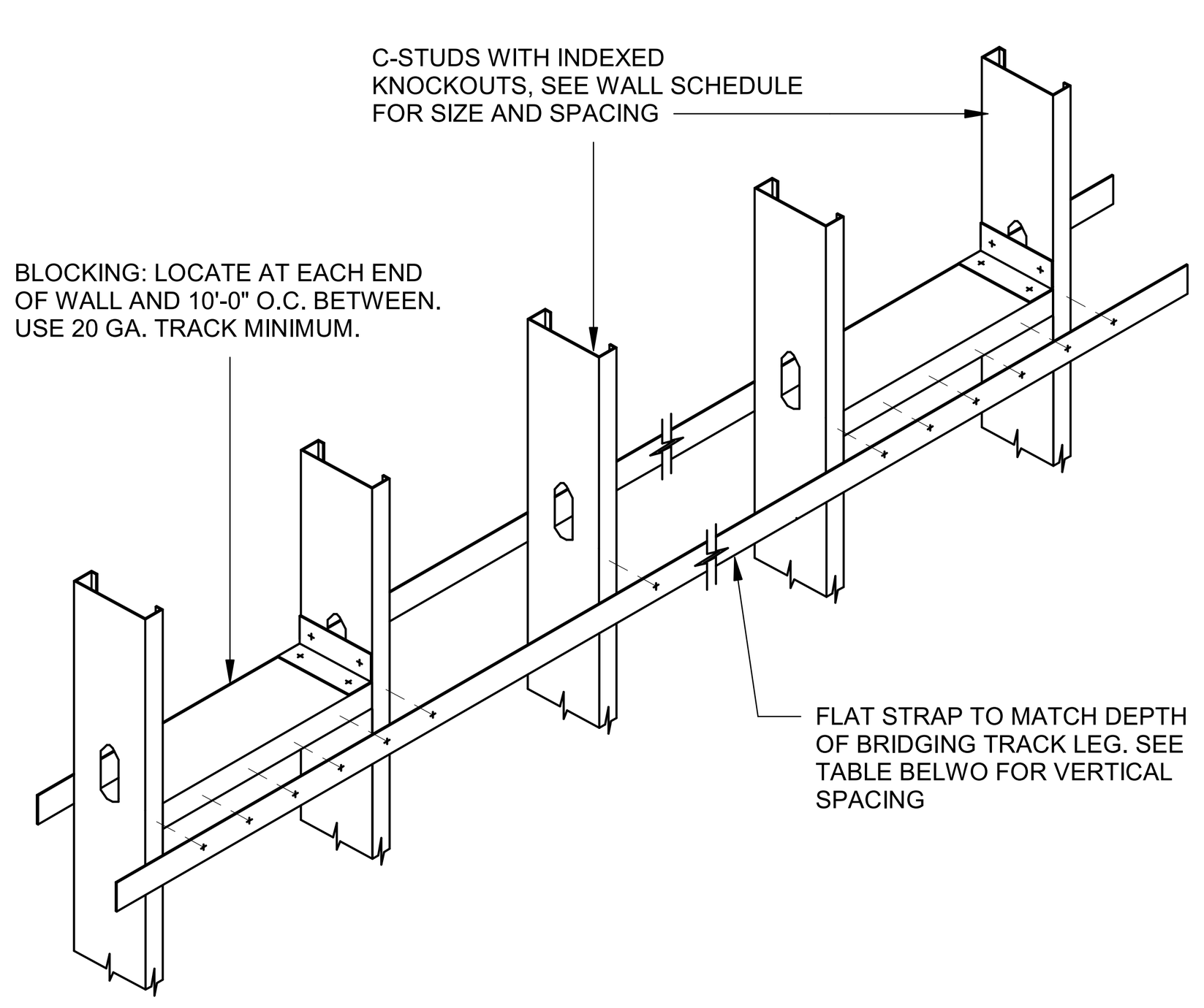
7 TYPICAL REINFORCING AT OPENINGS

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



8 TYPICAL DECK ACCESSORIES

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



MAXIMUM VERTICAL SPACING OF BRIDGING

MAXIMUM DEPTH OF STUD	NON-AXIAL (CURTAINWALL)		AXIAL (LOAD BEARING)	
	FIRST ROW	BALANCED	FIRST ROW	BALANCED
4"	5'-0"	4'-0" O.C.	3'-0"	4'-0" O.C.
6"	5'-0"	4'-0" O.C.	3'-0"	4'-0" O.C.
ALL DEPTHS	5'-0" O.C. MAX		4'-0" O.C. MAX	

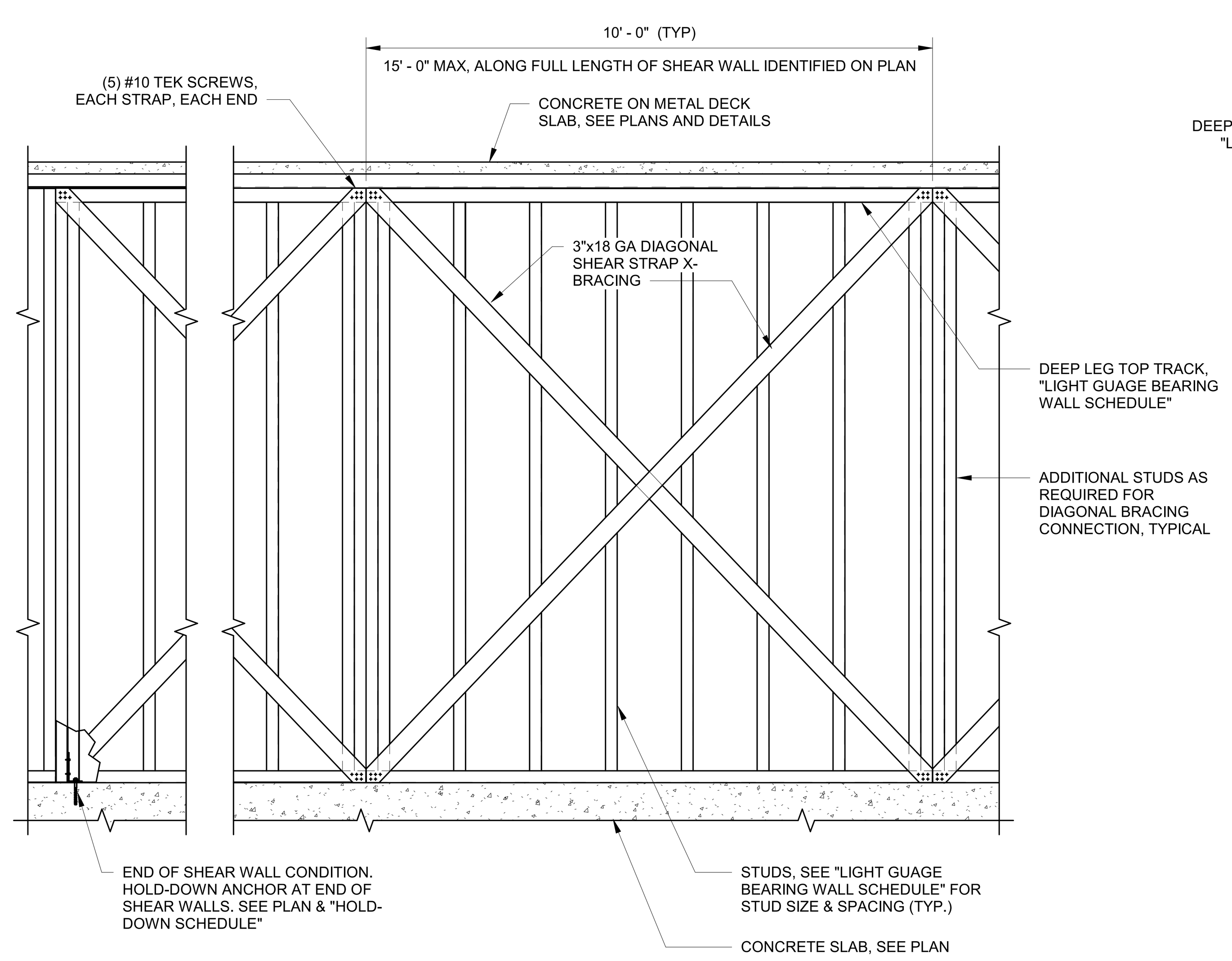
NOTES:

1. IN CURTAINWALL CONSTRUCTION, STUDS SHALL BE BRACED AGAINST ROTATION BY DIAPHRAGM RATED SHEATHING BOARD APPLIED FULL HEIGHT TO EACH SIDE OF THE WALL. THE INSTALLATION OF MECHANICAL BRIDGING, SPACED 5'-0" ON CENTER, PROVIDES ADEQUATE ROTATIONAL RESTRAINT FOR WALLS UNDER CONSTRUCTION BEFORE THE INSTALLATION OF SHEATHING. WHERE THE WALL IS NOT SHEATHED FULL HEIGHT EACH SIDE OR SHEATHED ON ONE SIDE ONLY, CONTINUOUS BRIDGING SPACED 5'-0" ON CENTER SHALL PROVIDE ROTATIONAL SUPPORT.

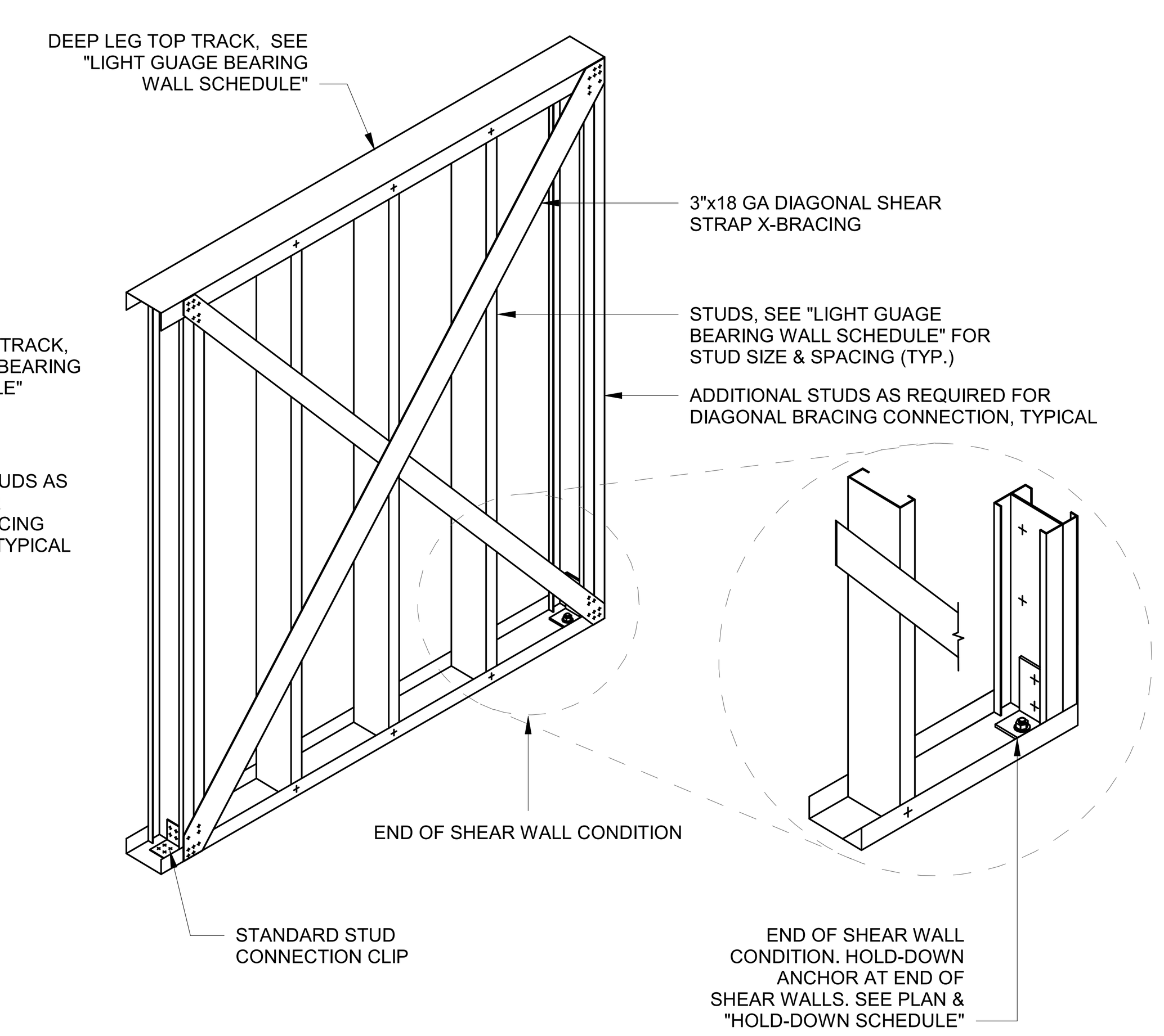
2. IN AXIAL LOAD BEARING CONSTRUCTION, STUDS SHALL BE BRACED AGAINST ROTATION BEFORE LOADING. INSTALL BRIDGING SPACED AT INTERVALS NOT EXCEEDING 4'-0" ON CENTER.

10 LATERAL BRACING WITH SOLID BRIDGING

SCALE: 3/4" = 1'-0"



ELEVATION VIEW



ISOMETRIC VIEW

11 TYPICAL FULL HEIGHT SHEAR STRAP X-BRACING DETAIL

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

REVISIONS

No.	Date	Description
1	7/1/2022	ISSUED FOR PERMIT

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STATE OF NEW YORK · ERIC SCOTT KOHL · 086123-1 · LICENSED PROFESSIONAL ENGINEER
07/01/202

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SCALE: AS NOTED
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