

COMPONENT SELECTION SCHEDULES (CANADA LIMIT STATES)

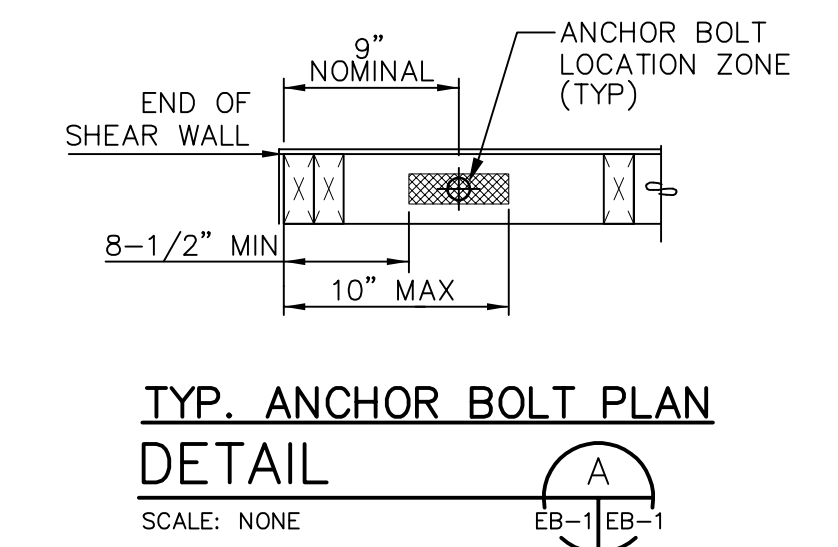
EARTHBOUND FACTORED THREADED ROD CAPACITIES (CSA S16-01)					
ROD SIZE	ROD SIZE (INCHES)	ALLOWABLE TENSION LOAD CSA S16-01	ROD REMARKS	SLACKJACK SIZE	
R4	1/2" DIA.	5,790 LBS	ASTM A 36 / A 307 (UNC)	SJA 214, 224, 414, 424	
R5	5/8" DIA.	9,220 LBS	ASTM A 36 / A 307 (UNC)	SJA 215, 225, 415, 425	
R6	3/4" DIA.	13,650 LBS	ASTM A 36 / A 307 (UNC)	SJA 216, 226, 416, 426	
R7	7/8" DIA.	18,840 LBS	ASTM A 36 / A 307 (UNC)	SJA 217, 227, 417, 427	
R8	1" DIA.	24,710 LBS	ASTM A 36 / A 307 (UNC)	SJA 218, 228, 418, 428	
R9	1 1/8" DIA.	31,140 LBS	ASTM A 36 / A 307 (UNC)	SJA 219, 229, 419, 429	
R10	1 1/4" DIA.	39,540 LBS	ASTM A 36 / A 307 (UNC)	SJA 2110, 2210, 4110, 4210, 5110, 4210	
R12	1 1/2" DIA.	57,330 LBS	ASTM A 36 / A 307 (UNC)	SJS 412, 4212	
RH4S	3/4" DIA.	27,760 LBS	ASTM A193 B7 (UNC)	SJA 216, 226, 416, 426	
RH5S	7/8" DIA.	38,410 LBS	ASTM A193 B7 (UNC)	SJA 217, 227, 417, 427	
RH6S	1" DIA.	50,460 LBS	ASTM A193 B7 (UNC)	SJA 218, 228, 418, 428	
RH7S	1 1/8" DIA.	63,650 LBS	ASTM A193 B7 (UNC)	SJA 219, 229, 419, 429	
RH8S	1 1/4" DIA.	86,960 LBS	ASTM A193 B7 (UNC)	SJA 2110, 2210, 4110, 4210, 5110, 4210	
RH12S	1 1/2" DIA.	117,570 LBS	ASTM A193 B7 (UNC)	SJS 4112, 4212	

EARTHBOUND BEARING PLATE CAPACITIES						SJA ROD SIZE CODES					
PLATE SIZE	DIFFERENTIAL LOAD (OF-L)	DIFFERENTIAL LOAD (SPF)	COLOR CODE	PLATE DIMENSIONS (INCHES)			PART NO.	ROD DIAMETER	ROD SIZE	WASHER COLOR	
				WIDTH	LENGTH	THICK.					
P4	8,340 LBS	6,310 LBS	ORANGE	3"	3"	1/4"	SJA 214 or 444	R4	R4	PURPLE	
P8	9,030 LBS	9,030 LBS	BLACK	3-1/4"	5"	1/4"	SJA 215 or 445	5/8"	RS	BLACK	
P10	15,790 LBS	11,950 LBS	BLUE	3-1/4"	8"	3/8"	SJA 216 or 446	3/4"	R6 or RH6S	GRAY	
P12	17,390 LBS	13,160 LBS	GRAY	3-1/4"	8"	5/8"	SJA 217 or 447	7/8"	R7 or RH7S	BLUE	
P14	20,420 LBS	15,460 LBS	RED	3-1/4"	7"	3/4"	SJA 218 or 448	1"	R8 or RH8S	YELLOW	
P16	28,590 LBS	21,650 LBS	YELLOW	3-1/2"	9"	1"	SJS 412	1 1/8"	R9 or RH9S	WHITE	
P18	31,860 LBS	24,120 LBS	GREEN	3-1/2"	10"	1"	SJA 219 or 449 or SJA 410	1 1/4"	R10 or RH10S	GREEN	
P22	35,130 LBS	26,600 LBS	WHITE	3-1/2"	11"	1 1/4"	SJA 412	1 1/2"	R12 or RH12S	RED	

- NOTES:**
- TENSION LOAD WAS CALCULATED FROM THE FOLLOWING EQUATION:
A. Factored resistances shown are the lower of 13.2(ϕ)(i), 13.2(ϕ)(i) and 13.12.1.2 of CSA S16-01.
B. Standard All Thread is based on minimum $F_y=45,000$ psi and $F_u=60,000$ psi.
C. High Strength All Thread Rod is based on minimum $F_y=105,000$ psi and $F_u=125,000$ psi.
 - PLATE STEEL SHALL BE ASTM A36: $F_u = 60,000$ PSI.
 - SUBSTITUTIONS OF DESIGNATED BEARING PLATE SHALL NOT BE PERMITTED, OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
 - SLACKJACK SELECTION NOTES:
THE SIZES SHOWN ABOVE ARE FOR BOTH ONE AND TWO INCH TRAVEL ("SJA 44y")
(x = TRAVEL HEIGHT IN INCHES, y = ROD SIZE). TWO INCH TRAVEL SLACKJACKS ARE REQUIRED ON FOURTH WOOD FRAME LEVELS AND HIGHER.
 - THIS TABLE IS FOR REFERENCE OF FULL PRODUCT LINE, SOME ROD AND PLATE SIZES MAY NOT BE IN USE. THE ENGINEER OF RECORD SHALL REVIEW AND APPROVE CAPACITIES.

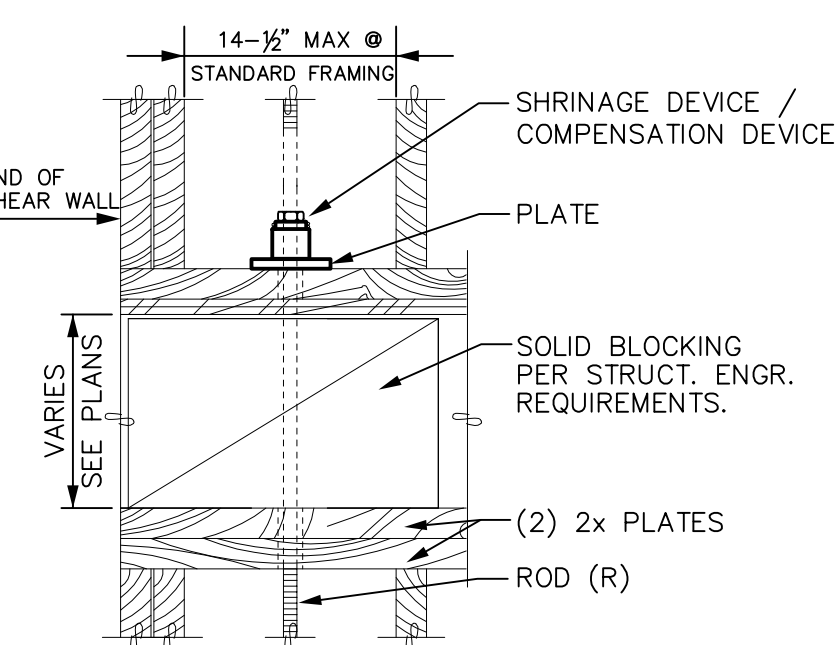
SLACKJACK™ FACTORED DEVICE CAPACITIES COLOUR CODE AND PART CROSS REFERENCE											
SLACKJACK THREADED				TRAVEL CAPTURE SWIVEL				SLACKJACK THREADED			
PART NO.	ROD DIAMETER	DIFFERENTIAL CAPACITY	TRAVEL AMOUNT	CAPTURE RING COLOUR	SWIVEL WASHER COLOUR	PART NO.	ROD DIAMETER	DIFFERENTIAL CAPACITY	TRAVEL AMOUNT	CAPTURE RING COLOUR	SWIVEL WASHER COLOUR
SJA 214	1/2"	10,304 LBS	1-INCH	BLUE	PURPLE	SJA 224	1/2"	10,822 LBS	2-INCH	YELLOW	PURPLE
SJA 215	5/8"	10,304 LBS	1-INCH	BLUE	BLACK	SJA 225	5/8"	10,822 LBS	2-INCH	YELLOW	BLACK
SJA 216	3/4"	10,304 LBS	1-INCH	BLUE	GRAY	SJA 226	3/4"	10,822 LBS	2-INCH	YELLOW	GRAY
SJA 217	7/8"	10,304 LBS	1-INCH	BLUE	BLUE	SJA 227	7/8"	10,822 LBS	2-INCH	YELLOW	BLUE
SJA 218	1"	10,304 LBS	1-INCH	BLUE	YELLOW	SJA 228	1"	10,822 LBS	2-INCH	YELLOW	YELLOW
SJA 219	1 1/8"	10,304 LBS	1-INCH	BLUE	WHITE	SJA 229	1 1/8"	10,822 LBS	2-INCH	YELLOW	WHITE
SJA 2110	1 1/4"	10,304 LBS	1-INCH	BLUE	GREEN	SJA 2210	1 1/4"	10,822 LBS	2-INCH	YELLOW	GREEN
SJA 414	1/2"	19,600 LBS	1-INCH	RED	PURPLE	SJA 434	1/2"	20,650 LBS	3-INCH	BROWN	PURPLE
SJA 415	5/8"	19,600 LBS	1-INCH	RED	BLACK	SJA 435	5/8"	20,650 LBS	3-INCH	BROWN	BLACK
SJA 416	3/4"	19,600 LBS	1-INCH	RED	GRAY	SJA 436	3/4"	20,650 LBS	3-INCH	BROWN	GRAY
SJA 417	7/8"	19,600 LBS	1-INCH	RED	BLUE	SJA 437	7/8"	20,650 LBS	3-INCH	BROWN	BLUE
SJA 418	1"	19,600 LBS	1-INCH	RED	YELLOW	SJA 438	1"	20,650 LBS	3-INCH	BROWN	YELLOW
SJA 419	1 1/8"	19,600 LBS	1-INCH	RED	WHITE	SJA 439	1 1/8"	20,650 LBS	3-INCH	BROWN	WHITE
SJA 4110	1 1/4"	19,600 LBS	1-INCH	RED	GREEN	SJA 4210	1 1/4"	20,650 LBS	3-INCH	BROWN	GREEN
SJA 424	1/2"	19,600 LBS	2-INCH	ORANGE	PURPLE	SJA 614	1/2"	28,476 LBS	1-INCH	TAN	PURPLE
SJA 425	5/8"	19,600 LBS	2-INCH	ORANGE	BLACK	SJA 615	5/8"	28,476 LBS	1-INCH	TAN	BLACK
SJA 426	3/4"	19,600 LBS	2-INCH	ORANGE	GRAY	SJA 616	3/4"	28,476 LBS	1-INCH	TAN	GRAY
SJA 427	7/8"	19,600 LBS	2-INCH	ORANGE	BLUE	SJA 617	7/8"	28,476 LBS	1-INCH	TAN	BLUE
SJA 428	1"	19,600 LBS	2-INCH	ORANGE	YELLOW	SJA 618	1"	28,476 LBS	1-INCH	TAN	YELLOW
SJA 429	1 1/8"	19,600 LBS	2-INCH	ORANGE	WHITE	SJA 619	1 1/8"	28,476 LBS	1-INCH	TAN	WHITE
SJA 4110	1 1/4"	19,600 LBS	2-INCH	ORANGE	GREEN	SJA 6110	1 1/4"	28,476 LBS	1-INCH	TAN	GREEN
SJS 4110	1 1/4"	30,800 LBS	1-INCH	BLUE	GREEN	SJS 4210	1 1/4"	30,800 LBS	2-INCH	YELLOW	GREEN
SJS 4112	1 1/2"	30,800 LBS	1-INCH	BLUE	RED	SJS 4212	1 1/2"	30,800 LBS	2-INCH	YELLOW	RED
SJX 4110	1 1/4"	47,908 LBS	1-INCH	GOLD	GREEN						
SJX 4112	1 1/2"	47,908 LBS	1-INCH	GOLD	RED						

SLACKJACK™ COLOUR CODE TABLE
TRAVEL HEIGHT AND ROD SIZE COORDINATION

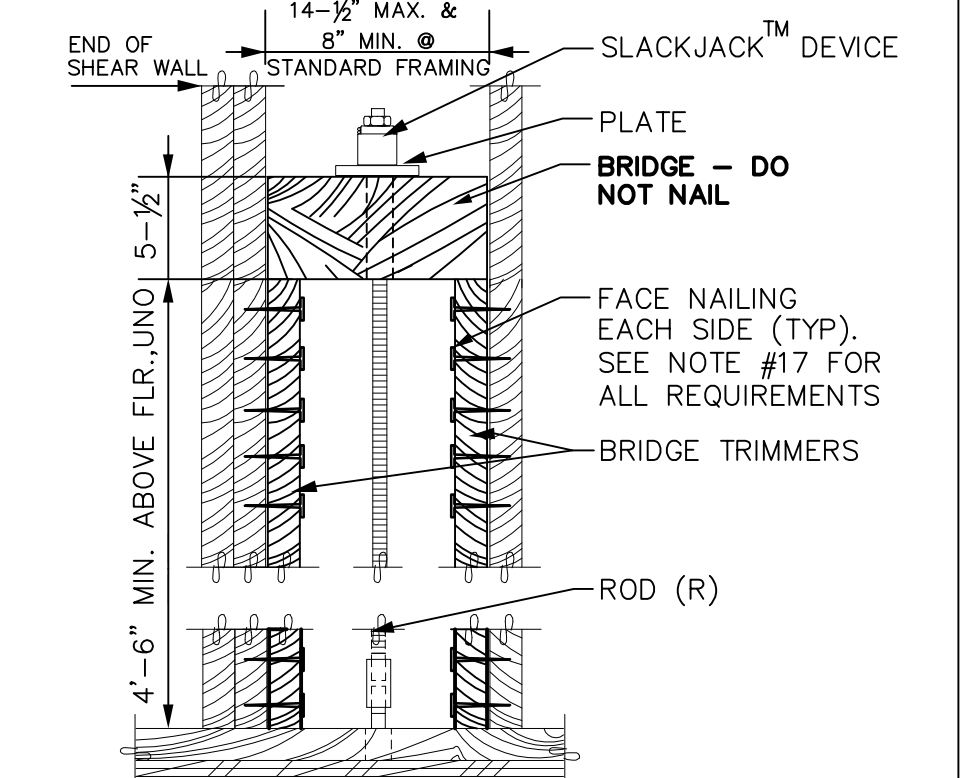


- ANCHOR BOLT NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WALL TYPE AND FRAMING LAYOUT BEFORE LOCATING ANCHOR BOLTS IN CONCRETE.
 - ALL DIMENSIONS ARE TYPICAL U.N.O.

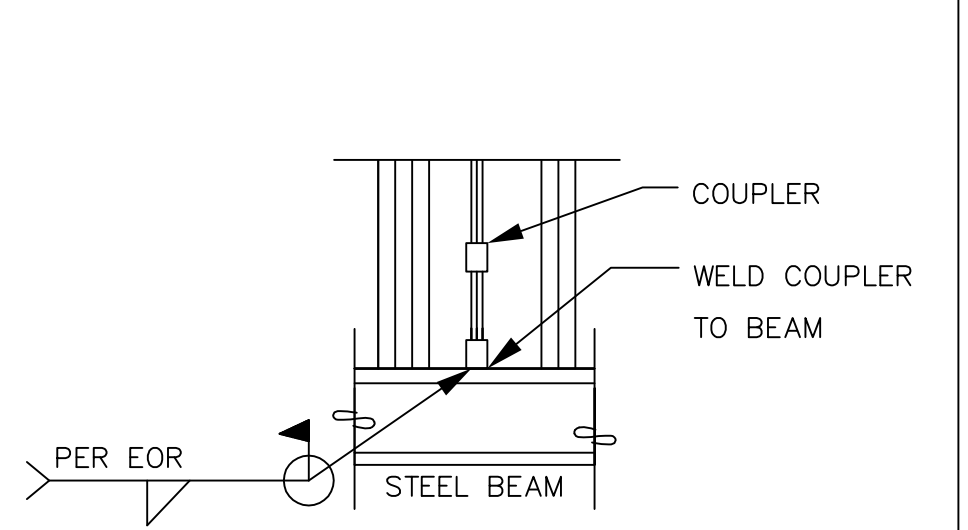
NOTE: SOLID BLOCKING, PROVIDE ENOUGH SOLID BLOCKING IN JOIST SPACE TO MATCH WIDTH OF ALL COMPRESSION STUDS OR POSTS OF THE WALL BELOW.



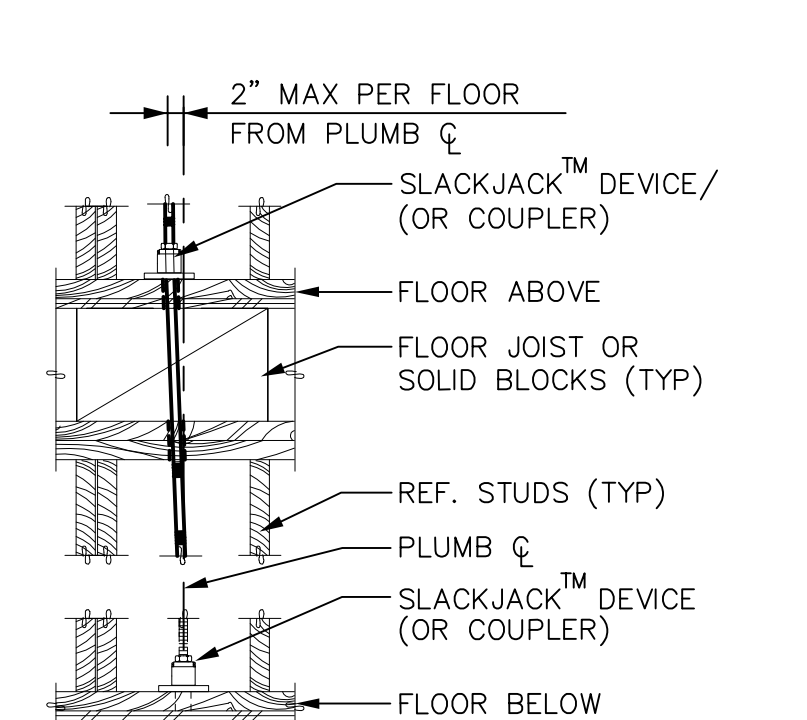
TYP. SLACKJACK™ INSTALLATION
DETAIL
SCALE: NONE



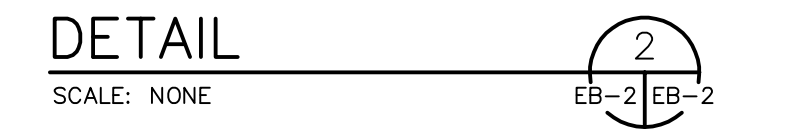
TYP. BRIDGE INSTALLATION
DETAIL
SCALE: NONE



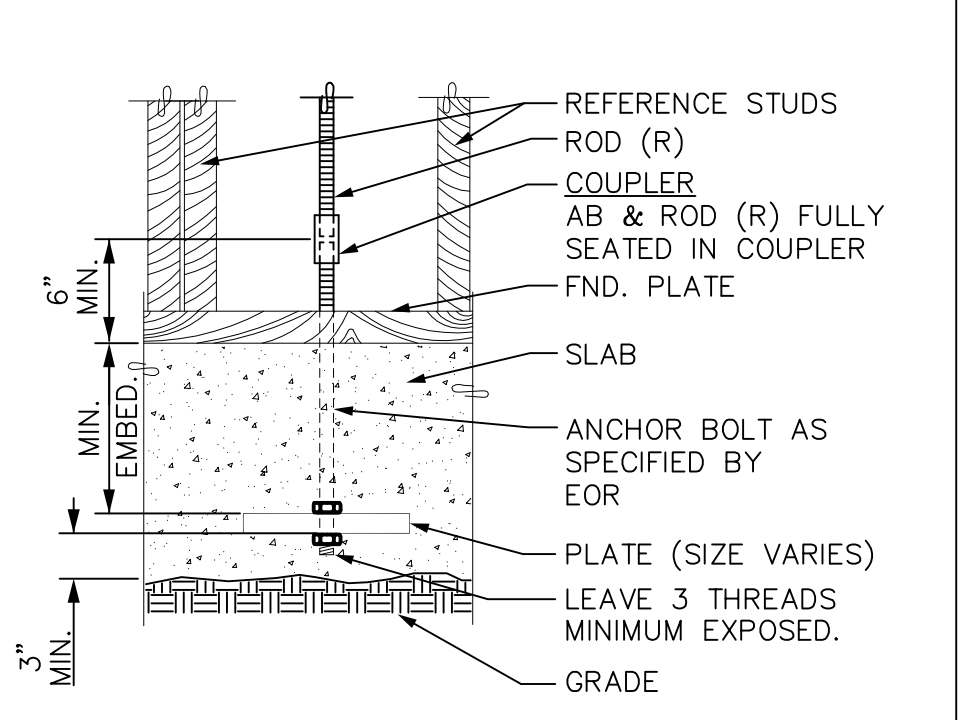
TYP. ANCHOR BOLT INSTALLATION
STEEL BEAM OPTION
DETAIL
SCALE: NONE



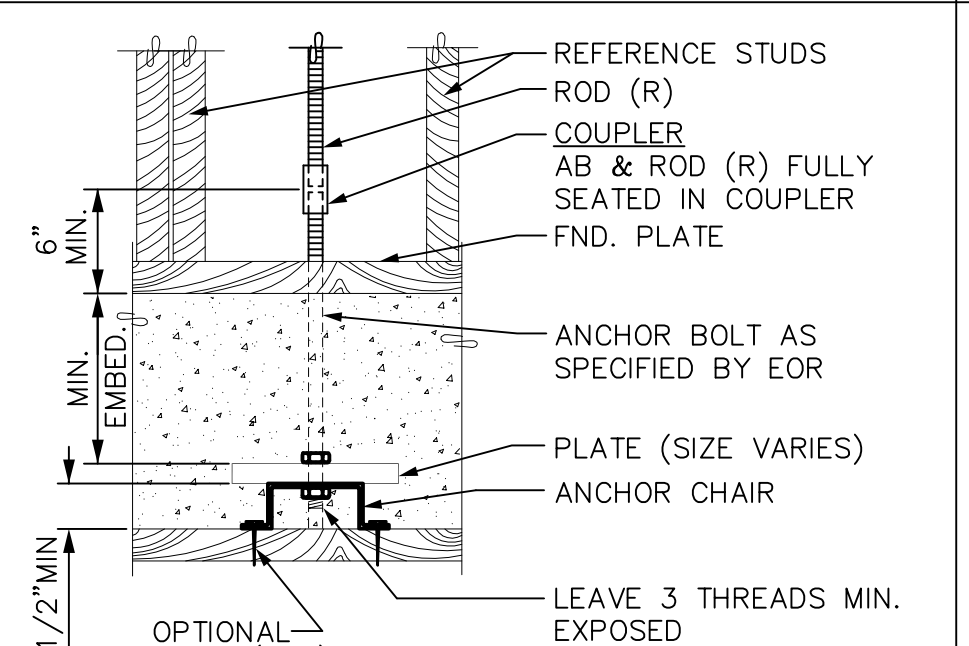
ALLOWABLE ROD OFFSET



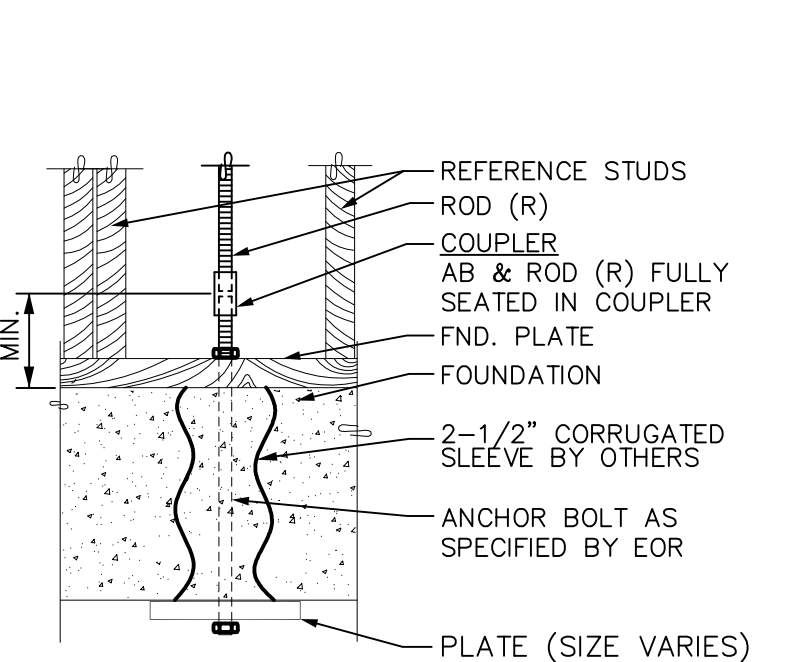
TYP. ANCHOR BOLT INSTALLATION
WOOD BEAM OPTION
DETAIL
SCALE: NONE



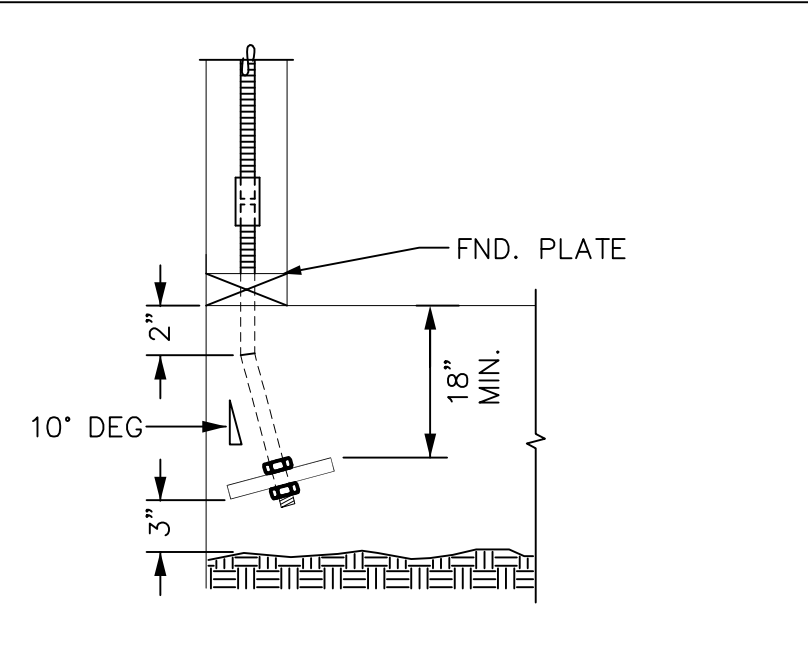
TYP. ANCHOR BOLT INSTALLATION
SLAB ON GRADE ONLY
DETAIL
SCALE: NONE



TYP. ANCHOR BOLT INSTALLATION
P.T. DECK ONLY
DETAIL
SCALE: NONE



TYP. ANCHOR BOLT INSTALLATION
THRU-BOLT OPTION
DETAIL
SCALE: NONE

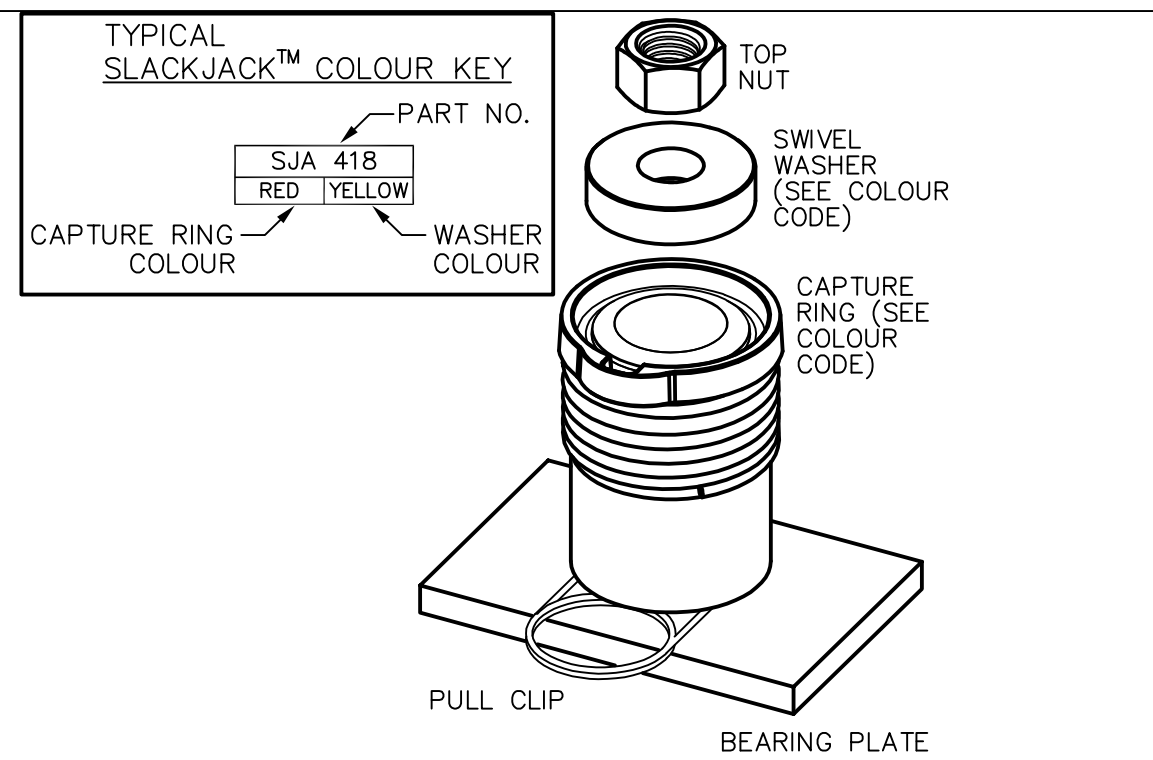


TYP. ANCHOR BOLT INSTALLATION
SLAB EDGE CONDITIONS ONLY
DETAIL
SCALE: NONE

DRILLED HOLE SCHEDULE

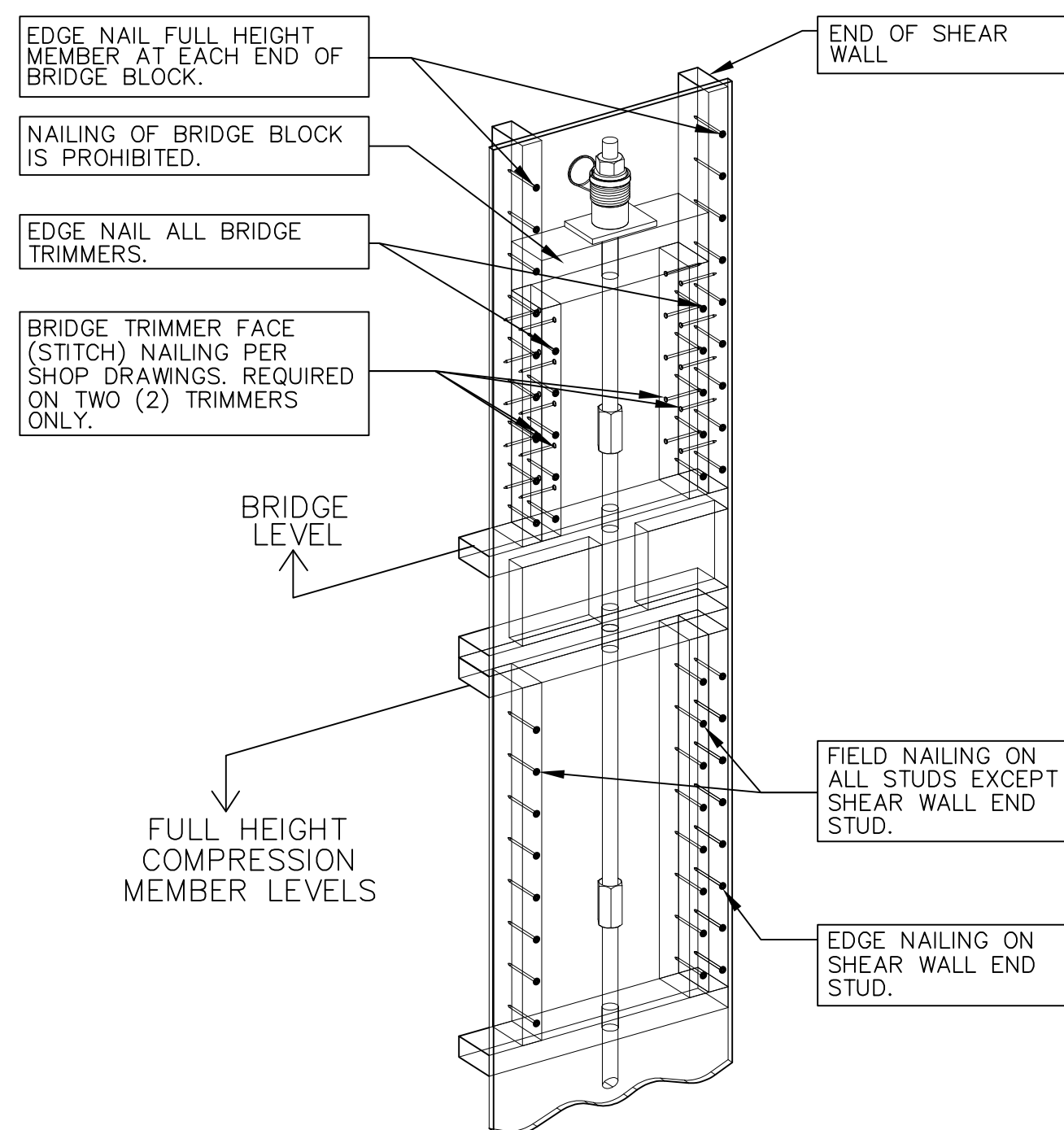
ROD HOLE SCHEDULE THROUGH TOP/BOTTOM PLATES AND BRIDGES			
ROD SIZE	MIN HOLE SIZE	MAX HOLE SIZE	
R4	1 1/2" ϕ	1" ϕ	
R5	5/8" ϕ	1" ϕ	
R6	3/4" ϕ	1" ϕ	
R7	7/8" ϕ	1-1/8" ϕ	
R8	1" ϕ	1-1/4" ϕ	
R9	1-1/8" ϕ	1-3/8" ϕ	
R10	1-1/4" ϕ	1-1/2" ϕ	

* HOLE SIZES INTENDED FOR 6" WALL TYPES ONLY. ENGINEER OF RECORD SHALL APPROVE THE USE OF THESE HOLE SIZES FOR 4" WALL TYPES.



NAILING SAMPLE

ALL SHEAR PANEL NAIL SPACING IS PER THE SHEAR WALL SCHEDULE



NOTE: SEE SHOP DRAWING GENERAL NOTES FOR NAILING REQUIREMENTS WHEN POSTS ARE USED.

CONTINUOUS ROD SYSTEM NOTE:

SELF-TIGHTENING HOLDOWN SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER FOR THE LOADS AND CONDITIONS SHOWN ON THE DRAWINGS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SELF-TIGHTENING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE 3/8" OF SHRINKAGE PER FLOOR.

SHOP DRAWINGS SHALL INDICATE LOAD CAPACITIES AND SELF-TIGHTENING DEVICE(S) OF EACH HOLDOWN RUN. THESE PRODUCTS SHALL BE AS FOLLOWS:

EARTHBOUND SEISMIC HOLDOWN SYSTEM USING THE "SLACKJACK" SHRINKAGE COMPENSATING DEVICE MANUFACTURED BY EARTHBOUND CORPORATION. HTTP://WWW.SLACKJACK.COM (800) 944-5669. FOR BRITISH COLUMBIA CANADA DISTRIBUTION: RICHFORM CONSTRUCTION SUPPLY (604) 777-9974.

RUN TYPE XX				
WOOD FLOOR LEVEL	UPLIFT TENSION LOADS	CALCULATED DIFFERENTIAL LOADS	COLLECTED DIFFERENTIAL LOADS	WOOD COMPRESSION DOWNLOAD
5th	-----	-----	-----	-----
4th	-----	-----	-----	-----
3rd	-----	-----	-----	-----
2nd	-----	-----	-----	-----
1st	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS

RUN TYPE XX				
WOOD FLOOR LEVEL	UPLIFT TENSION LOADS	CALCULATED DIFFERENTIAL LOADS	COLLECTED DIFFERENTIAL LOADS	WOOD COMPRESSION DOWNLOAD
5th	-----	-----	-----	-----
4th	-----	-----	-----	-----
3rd	-----	-----	-----	-----
2nd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
1st	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS

RUN TYPE XX				
WOOD FLOOR LEVEL	UPLIFT TENSION LOADS	CALCULATED DIFFERENTIAL LOADS	COLLECTED DIFFERENTIAL LOADS	WOOD COMPRESSION DOWNLOAD
5th	-----	-----	-----	-----
4th	-----	-----	-----	-----
3rd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
2nd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
1st	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS

RUN TYPE XX				
WOOD FLOOR LEVEL	UPLIFT TENSION LOADS	CALCULATED DIFFERENTIAL LOADS	COLLECTED DIFFERENTIAL LOADS	WOOD COMPRESSION DOWNLOAD
5th	-----	-----	-----	-----
4th	-----	-----	-----	-----
3rd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
2nd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
1st	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS

RUN TYPE XX				
WOOD FLOOR LEVEL	UPLIFT TENSION LOADS	CALCULATED DIFFERENTIAL LOADS	COLLECTED DIFFERENTIAL LOADS	WOOD COMPRESSION DOWNLOAD
5th	-----	-----	-----	-----
4th	-----	-----	-----	-----
3rd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
2nd	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS
1st	X,XXX LBS	X,XXX LBS	X,XXX LBS	X,XXX LBS

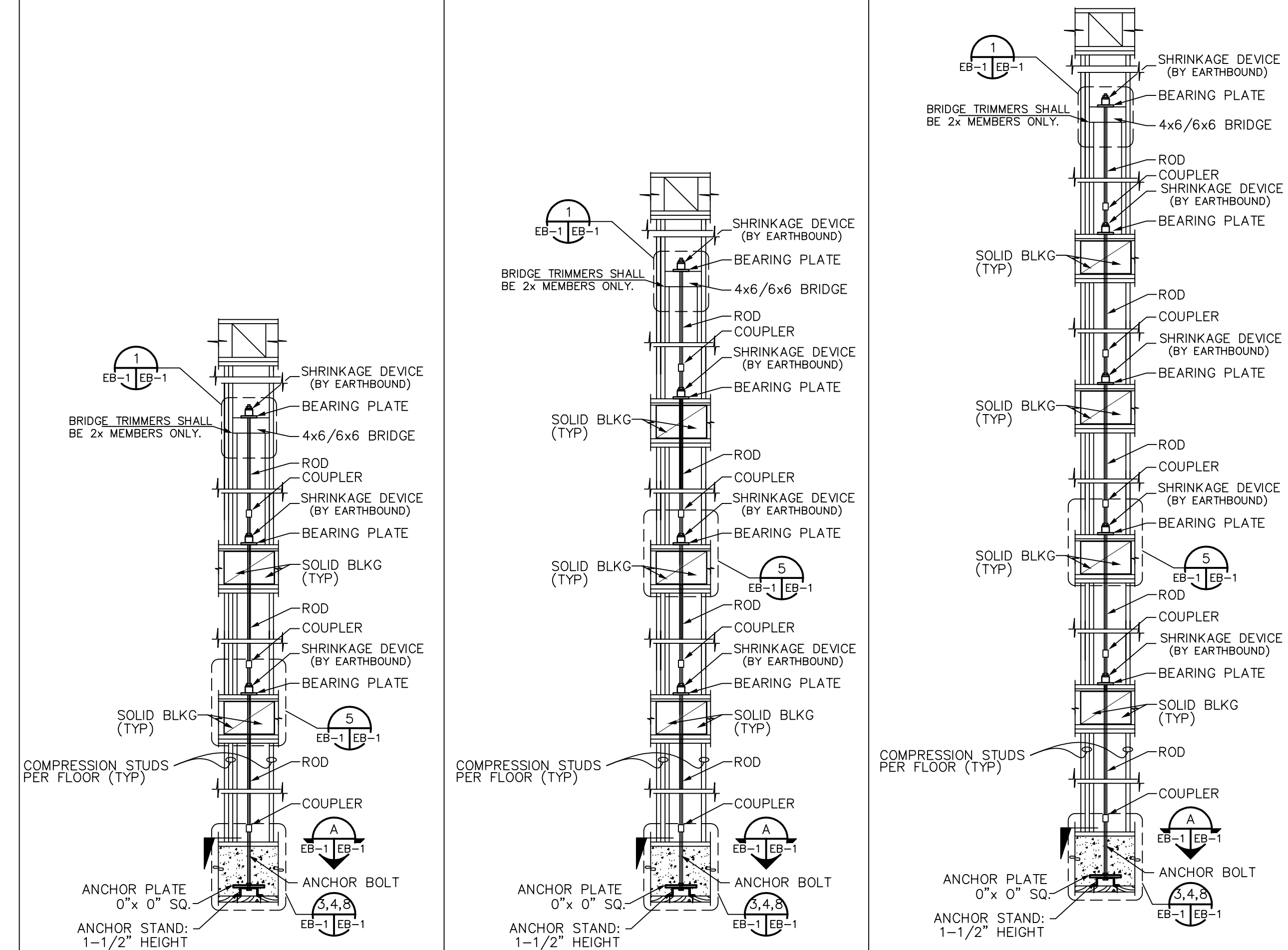
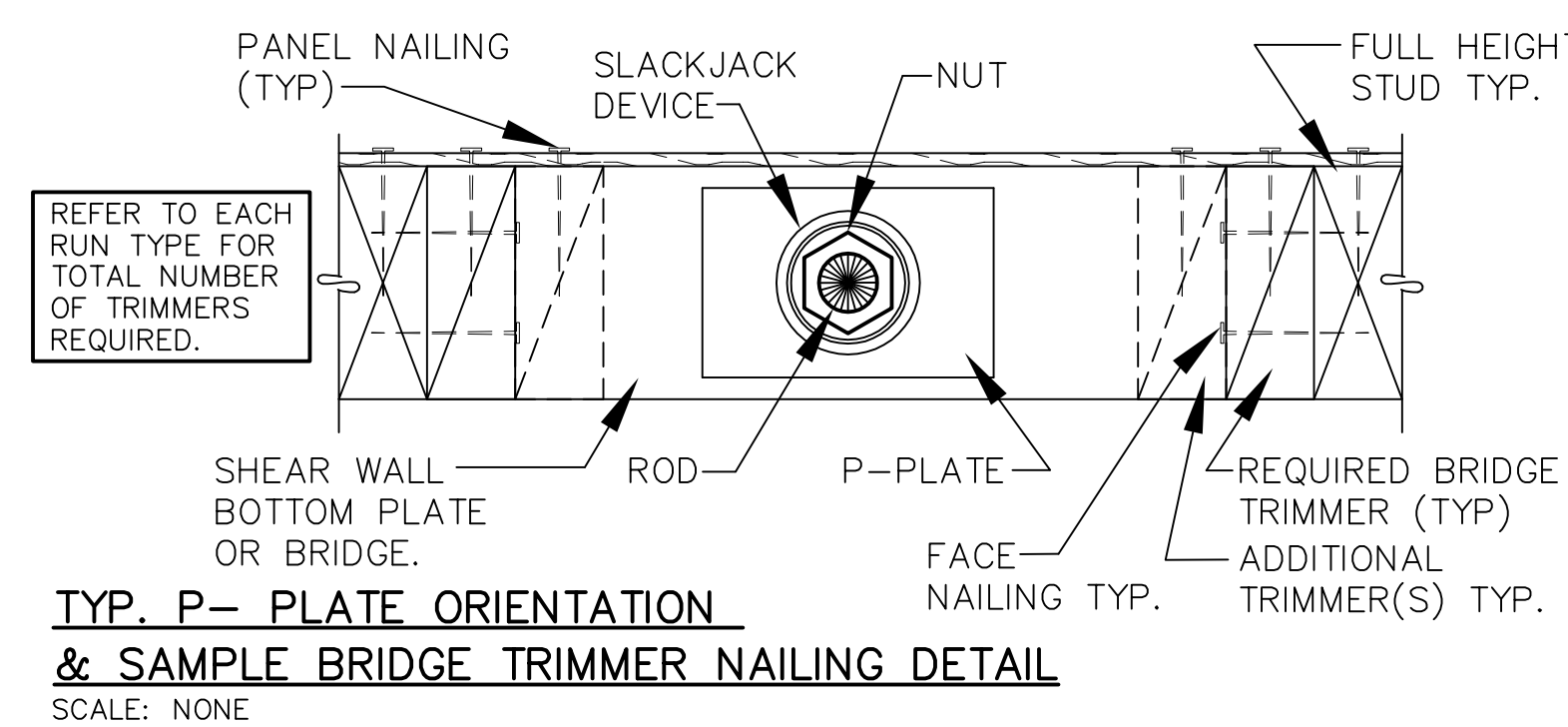


PLATE ORIENTATION



TYP. P- PLATE ORIENTATION
& SAMPLE BRIDGE TRIMMER NAILING DETAIL
SCALE: NONE

DRILLED HOLE SCHEDULE

ROD HOLE SCHEDULE THROUGH TOP/BOTTOM PLATES AND BRIDGES			
ROD SIZE	MIN HOLE SIZE	MAX HOLE SIZE	
R4	1 1/2" ϕ	1" ϕ	
R5	5/8" ϕ	1" ϕ	
R6	3/4" ϕ	1" ϕ	
R7	7/8" ϕ	1-1/8" ϕ	
R8	1" ϕ	1-1/4" ϕ	
R9	1-1/8" ϕ	1-3/8" ϕ	
R10	1-1/4" ϕ	1-1/2" ϕ	

* HOLE SIZES INTENDED FOR 6" WALL TYPES ONLY. ENGINEER OF RECORD SHALL APPROVE THE USE OF THESE HOLE SIZES FOR 4" WALL TYPES.

TYPICAL WOOD SELECTION SCHEDULES

COLLECTOR STUD CAPACITIES FOR SPRUCE PINE FIR ON SPRUCE PINE FIR PLATES						
TOTAL		8"-7" CAPACITY **		6"-0" CAPACITY		
STUDS REQUIRED		2x4	2x6	BRIDGE TRIMMERS ONLY		
QTY. PLAN VIEW		STUDS	STUDS	NO. OF	2x4s	2x6s
SINGLE CAPACITY:		3,658#	7,239#	BRIDGE TRIMMERS	4,641#	7,293#
1	□ — +			2*	9,282#	14,586#
3	□ — +	10,973#	21,879#			
4	□ — +	14,631#	29,172#	4*	18,564#	29,172#
5	□ — +	18,289#	36,465#			
6	□ — +	21,946#	43,758#	6*	27,846#	43,758#
7	□ — +	25,603#	51,051#			
8	□ — +	29,261#	58,344#	8*	37,128#	58,344#
9	□ — +	32,919#	65,637#			
10	□ — +	36,576#	72,930#			