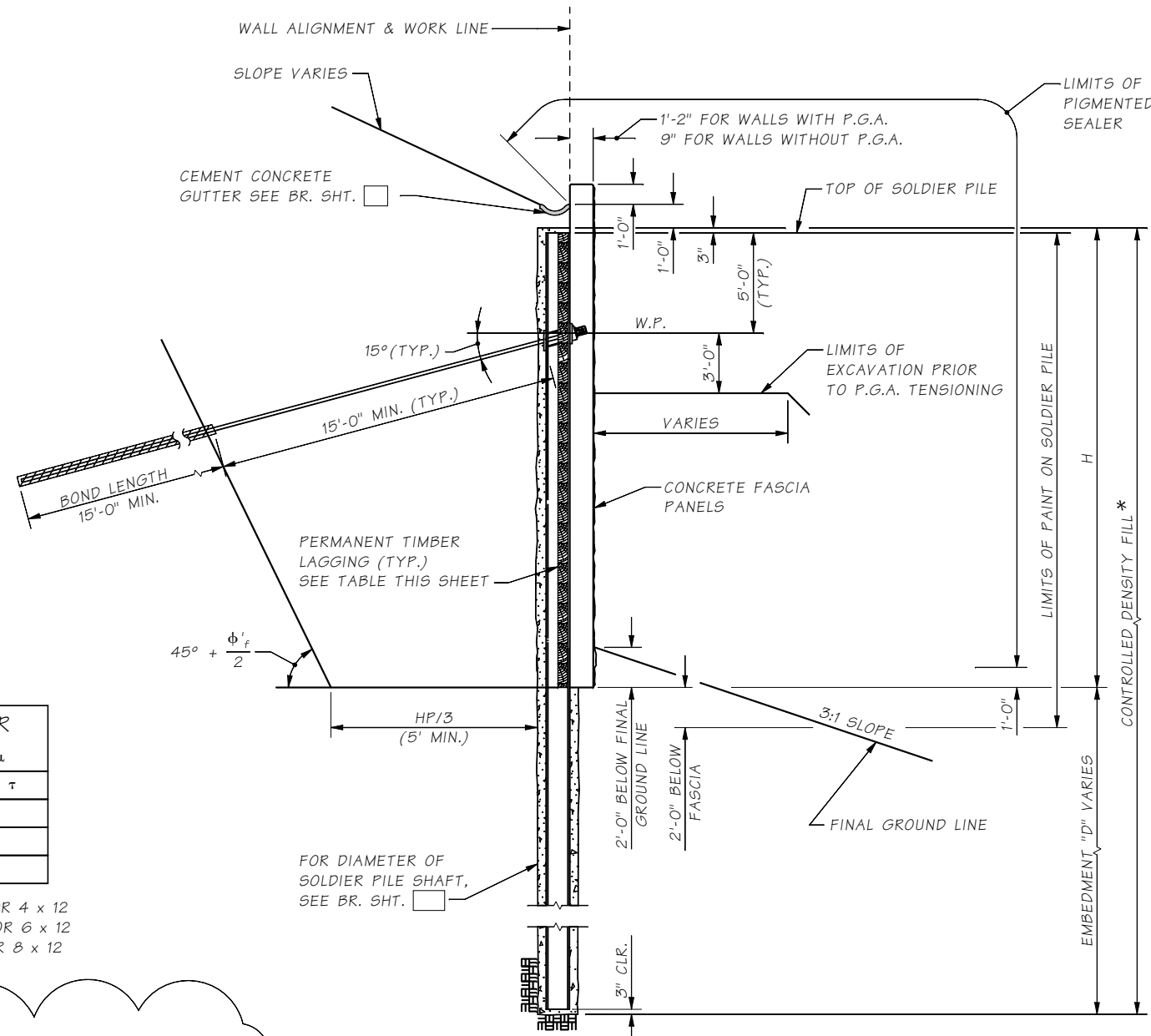


**SOLDIER PILE LIFTING HOLE**

LIFTING HOLE TO BE DRILLED IN THE SHOP PRIOR TO PAINTING THE PILE.



PERMANENT TIMBER LAGGING SIZES $\mu$	
DEPTH (FT) $\tau$	SIZE $\tau$
0 - 9	4 x
9 - 18	6 x
18 - 30	8 x

4 x - OPTIONAL 4 x 8, 4 x 10 OR 4 x 12  
 6 x - OPTIONAL 6 x 8, 6 x 10 OR 6 x 12  
 8 x - OPTIONAL 8 x 8, 8 x 10 OR 8 x 12

**Notes to Designer:**

$\tau$  Depths and sizes shown are for example only. Fill in the table according to the earth pressure diagram and recommendations from the Geotechnical Services Branch, based on LRFD timber design for permanent lagging.

$\mu$  Determine, if possible, the length of time that the wall lagging will be used as the primary structural member in the transverse direction before a permanent wall fascia is applied.

For walls with P.G.A. use a section size with a flange width bigger than or equal to HP12x53 or W12x65.

For walls without concrete fascia panels:

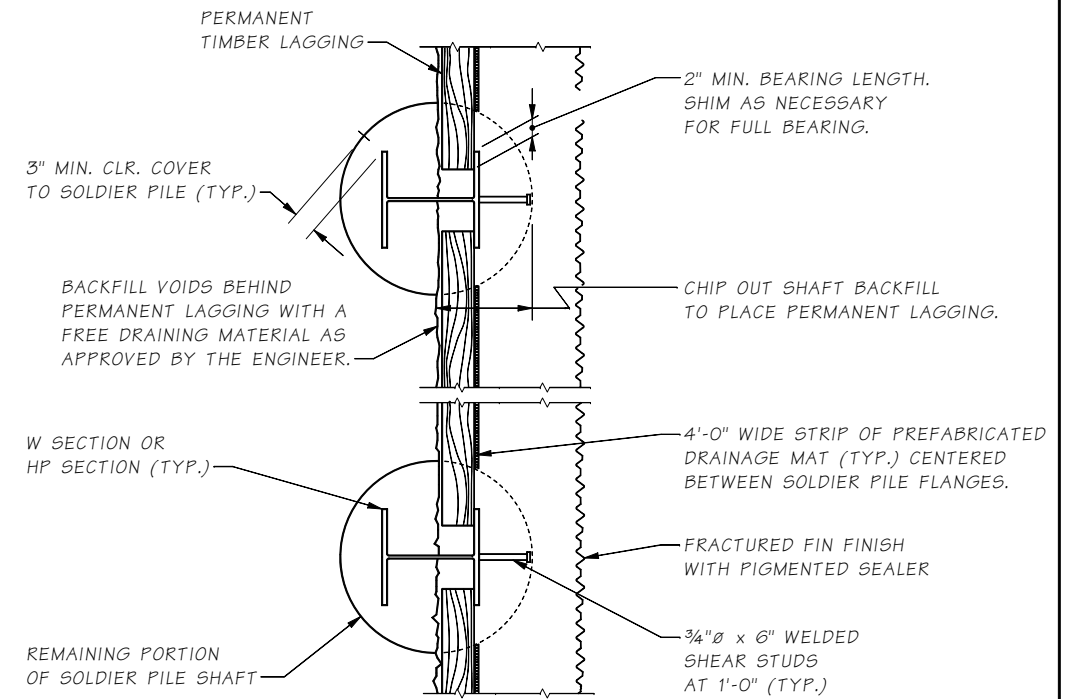
- Hem-fir timber lagging shall not be used.
- Douglas fir-larch, grade no. 2 or better, treated in accordance with section 9-09.3(1), shall be used and shall be specified in the plan sheets and Special Provisions.

**TYPICAL SECTION**

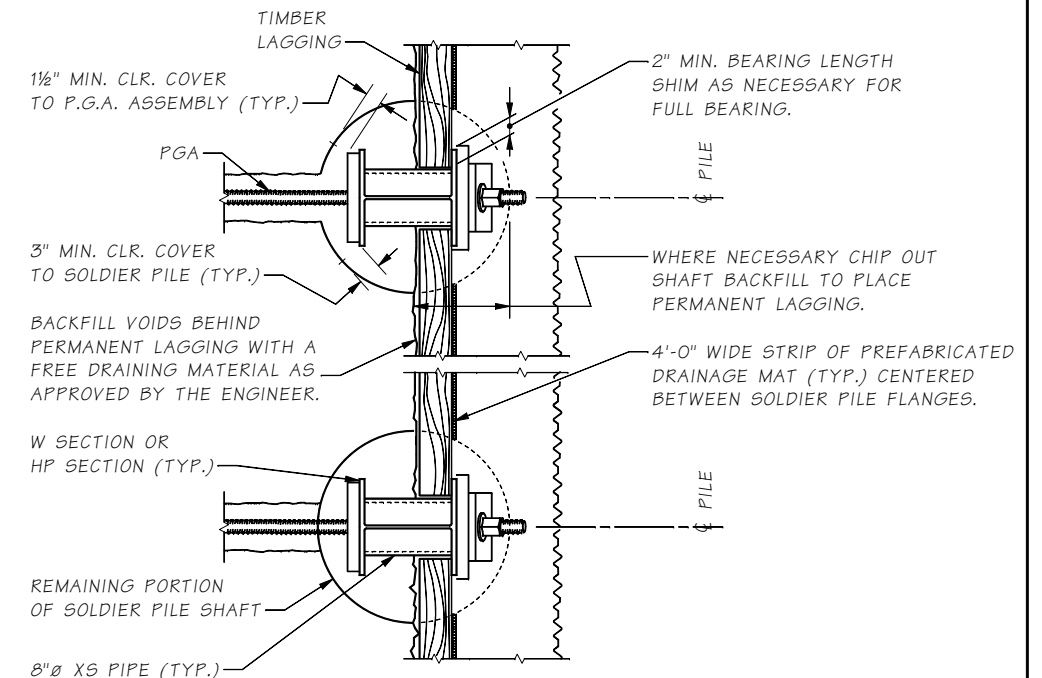
SHOWN FOR SOLDIER PILE WITH P.G.A. SIMILAR FOR SOLDIER PILE WITHOUT P.G.A.

P.G.A.= PERMANENT GROUND ANCHOR

LAGGING IN SERVICE  
36 MONTHS OR LONGER



**PLAN SOLDIER PILE WALL WITHOUT P. G. A.**



**PLAN SOLDIER PILE WALL WITH P. G. A.**

Last revised on : 04/08/2019

SR JOB NO. SHEETS 8.1-A3-3

BRIDGE DESIGN ENGR.		SUPERVISOR		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
M:STANDARD SWAIN		SOLDIER TIEBACK		10	WASH.			
DESIGNED BY		CHECKED BY		JOB NUMBER				
BRIDGE PROJECTS ENGR.		PRELIM. PLAN BY						
DATE	REVISION	BY	APP'D					

Mon Apr 08 15:00:19 2019

**BRIDGE AND STRUCTURES OFFICE**



SOLDIER PILE/TIEBACK WALL  
DETAILS 2 OF 3

BRIDGE SHEET NO. SHEET OF SHEETS