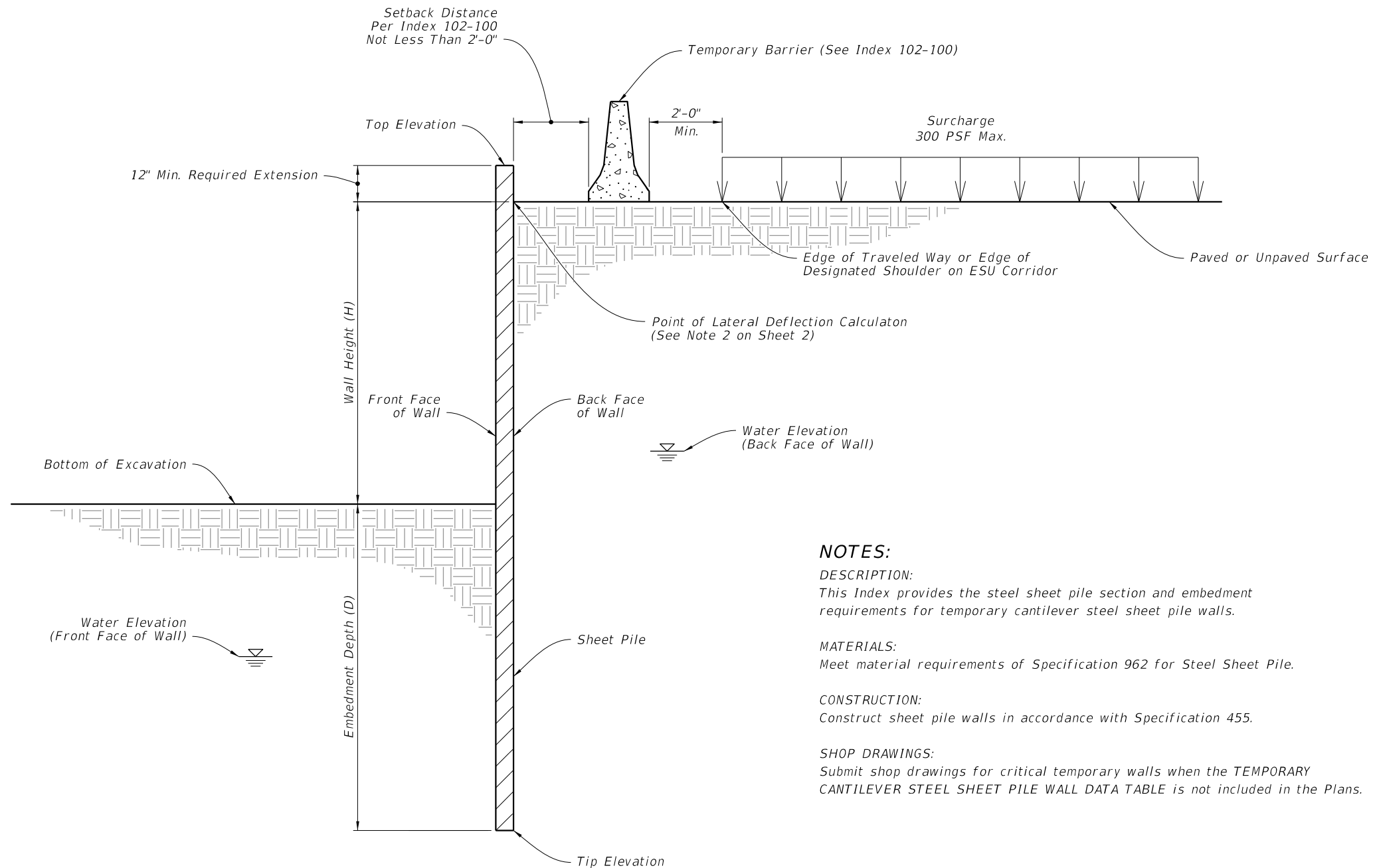




NOTES:

DESCRIPTION:

This Index provides the steel sheet pile section and embedment requirements for temporary cantilever steel sheet pile walls.

MATERIALS:

Meet material requirements of Specification 962 for Steel Sheet Pile.

CONSTRUCTION:

Construct sheet pile walls in accordance with Specification 455.

SHOP DRAWINGS:

Submit shop drawings for critical temporary walls when the TEMPORARY CANTILEVER STEEL SHEET PILE WALL DATA TABLE is not included in the Plans.

SHEET PILE WALL
(Typical Section)

10/20/2026 11:27:33 AM

LAST REVISION 11/01/26	REVISION	DESCRIPTION:		FY 2027-28 STANDARD PLANS	TEMPORARY CANTILEVER STEEL SHEET PILE WALL	INDEX 455-500	SHEET 1 of 2
------------------------------	----------	--------------	---	------------------------------	--	------------------	-----------------

9/28/2026 11:55:38 AM

Case 1: Groundwater at Excavation Elevation with 3 feet of Head Differential					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	15.5	6	5	14	7
7	17.5	9	7	25	13
8	19	13	10	43	21
9	21	18	14	70	35
10	23	24	19	112	57
11	24.5	31	24	170	84
12	26.5	38	30	252	127
13	28	48	37	365	182
14	30	58	45	503	252
15	31.5	70	55	694	348

Case 2: Groundwater at 2 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	8	3	2	4	2
7	9.5	4	3	7	4
8	11.5	6	5	14	8
9	13	9	7	25	13
10	15	13	10	43	22
11	16.5	17	14	69	34
12	18.5	23	18	112	57
13	20	30	23	170	85
14	22.5	38	30	251	125
15	24	47	37	360	181

Case 3: Groundwater at 4 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	7	3	2	3	2
7	8.5	4	3	6	4
8	9.5	5	4	12	7
9	11	8	6	20	10
10	12.5	11	8	35	18
11	14	14	11	58	30
12	15.5	19	15	90	46
13	17	24	19	135	68
14	18.5	31	24	199	100
15	20.5	38	30	284	140

Case 4: Groundwater at 8 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	7	3	2	3	2
7	8	4	3	6	4
8	9.5	5	4	12	7
9	10.5	8	6	20	10
10	11.5	10	8	33	17
11	12.5	14	11	54	27
12	14	17	14	82	41
13	15	22	17	121	61
14	16.5	28	22	175	88
15	17.5	34	26	249	125

NOTES:

- Minimum Plastic Section Modulus requirements are for hot-rolled sections. For cold-rolled sections, increase the Minimum Section Modulus by 20%.
- Use 1.5" Lateral Deflection when supported unpaved surface or paved roadway will not be paved or resurfaced after the wall deflects. Use 3" Lateral Deflection when supported paved roadway will be paved or resurfaced after the wall deflects, or the supported roadway is unpaved.