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GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
4. Shear stud connectors shall be 3/4" diameter x 6" granular or solid flux filled headed studs automatically end welded to the front flange in the field.
5. Protective Coat shall be applied to all exposed surfaces of the concrete barrier and shall extend 1'-0" minimum below finished grade.
6. The cost of cutting off any piling in excess of that needed shall be included in the cost of "Driving Soldier Piles."
7. All exposed edges shall have a 3/4" chamfer, except as shown otherwise.
8. The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense. In case of conflict with soldier pile, the maximum spacing between adjacent soldier piles shall be 10'-0".

9. No construction equipment is allowed behind the location of the proposed wall. The soil behind the proposed soldier pile retaining wall shall be placed from below the wall and spread by hand. The walk-behind vibrating compactor shall be used to compact the fill. See civil drawings for landscaping details and pay items.

10. The Contractor shall not damage, cut, scrape, break, or remove any tree or tree branch; attach any rope, wire, nail or other object to any tree; allow any liquid or solid substance or equipment to contact any tree or the soil located within the dripline of any tree or act in any way to affect the vigor or appearance of any tree when driving the soldier piles and/or constructing any portion of the proposed soldier pile retaining wall except as such action is specifically authorized by IDOT and the Lake County Forest Preserve District (LCFPD). Any necessary action by the Contractor that would affect trees, which have not been specifically designated, must be approved in advance by IDOT and the LCFPD.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	TOTAL
Structure Excavation	Cu. Yd.	168
Concrete Structures	Cu. Yd.	91.0
Protective Coat	Sq. Yd.	272
Shear Stud Connectors	Each	108
Reinforcement Bars, Epoxy Coated	Pound	8,160
Geocomposite Wall Drain	Sq. Yd.	150
Driving Soldier Piles	Foot	696
Untreated Timber Lagging	Sq. Ft.	1,170
Furnishing Soldier Piles (HP Section)	Foot	696
Pipe Underdrains For Structures, 4"	Foot	335

SOLDIER PILE WALL INFORMATION

Pile	Station *	Offset *	Top of Pile Elevation	Pile Tip Elevation	Pile Length (Ft)	No. Stud Shear Connectors
Pile # 1	254+73.56	37.66	681.47	663.85	17.62	3
Pile # 2	254+83.07	37.66	682.62	664.25	18.37	3
Pile # 3	254+92.58	37.66	683.77	664.64	19.13	3
Pile # 4	255+02.09	37.66	684.55	665.05	19.50	3
Pile # 5	255+11.60	37.66	684.95	665.45	19.50	3
Pile # 6	255+21.11	37.66	685.35	665.85	19.50	3
Pile # 7	255+30.62	37.66	685.75	666.25	19.50	3
Pile # 8	255+40.13	37.66	686.15	666.65	19.50	3
Pile # 9	255+49.64	37.66	686.55	667.05	19.50	3
Pile # 10	255+59.16	37.66	686.95	667.45	19.50	3
Pile # 11	255+68.67	37.66	687.35	667.85	19.50	3
Pile # 12	255+78.18	37.66	687.75	668.25	19.50	3
Pile # 13	255+87.69	37.66	688.15	668.65	19.50	3
Pile # 14	255+97.20	37.66	688.55	669.05	19.50	3
Pile # 15	256+06.71	37.66	688.95	669.45	19.50	3
Pile # 16	256+16.22	37.66	689.35	669.85	19.50	3
Pile # 17	256+25.73	37.66	689.75	670.25	19.50	3
Pile # 18	256+35.24	37.66	690.15	670.65	19.50	3
Pile # 19	256+44.76	37.66	690.55	671.05	19.50	3
Pile # 20	256+54.27	37.66	690.95	671.45	19.50	3
Pile # 21	256+63.78	37.66	691.35	671.85	19.50	3
Pile # 22	256+73.29	37.66	691.75	672.25	19.50	3
Pile # 23	256+82.80	37.66	692.16	672.66	19.50	3
Pile # 24	256+92.31	37.66	692.56	673.06	19.50	3
Pile # 25	257+01.82	37.66	692.95	673.45	19.50	3
Pile # 26	257+11.33	37.66	693.35	673.85	19.50	3
Pile # 27	257+20.84	37.66	693.73	674.23	19.50	3
Pile # 28	257+30.36	37.66	694.11	674.61	19.50	3
Pile # 29	257+39.87	37.66	694.49	674.99	19.50	3
Pile # 30	257+49.38	37.66	694.85	675.35	19.50	3
Pile # 31	257+58.89	37.66	695.21	675.71	19.50	3
Pile # 32	257+68.40	37.66	695.57	676.07	19.50	3
Pile # 33	257+77.91	37.66	695.91	676.41	19.50	3
Pile # 34	257+87.42	37.66	695.89	676.75	19.13	3
Pile # 35	257+96.93	37.66	695.49	677.09	18.40	3
Pile # 36	258+06.44	37.66	695.09	677.42	17.67	3
Total =						108

* Stations and Offsets for the soldier piles are given to 1/4" of piles.

FILE NAME =	USER NAME =	DESIGNED - EM	REVISED 9-08-2011 EKM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, BILL OF MATERIALS AND INDEX OF SHEETS STRUCTURE NO. 049-W041	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JMH	REVISED -			330	12BR-3	LAKE	518	341	
PLOT SCALE =		DRAWN - DR	REVISED -			CONTRACT NO. 60953					
PLOT DATE =		CHECKED - JMH	REVISED -			ILLINOIS FED. AID PROJECT					
					SHEET NO. S9-2 OF S9-9 SHEETS						