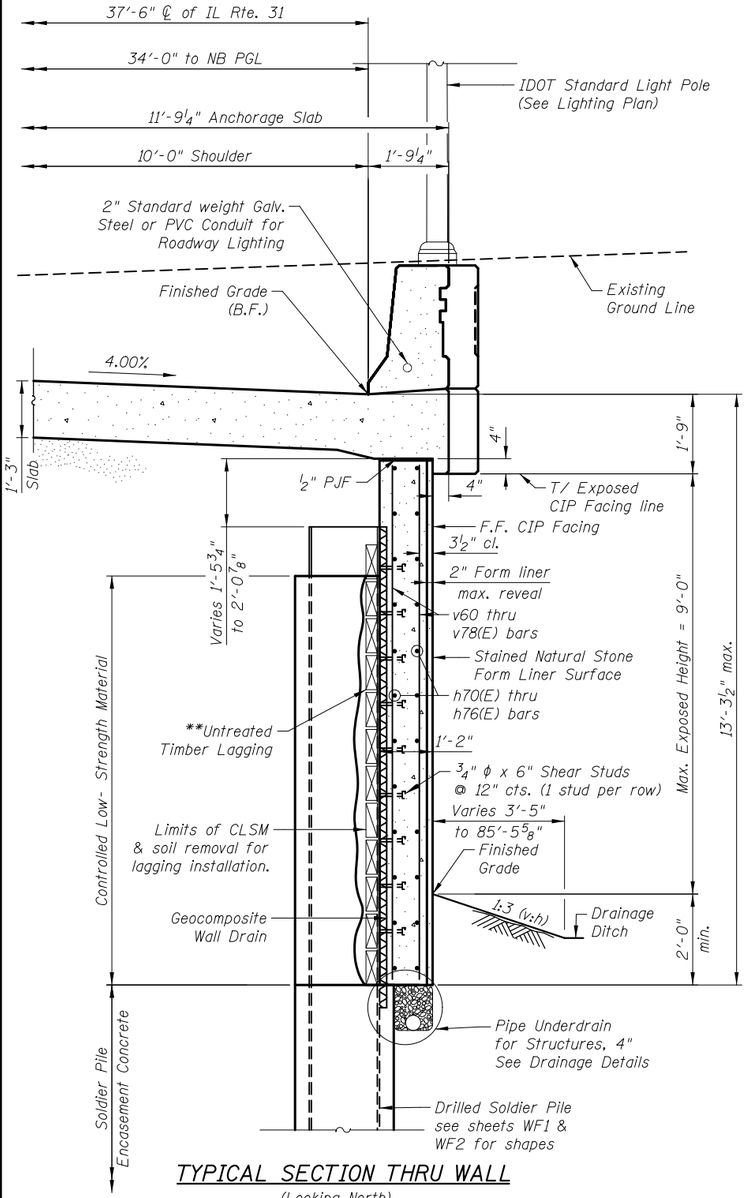
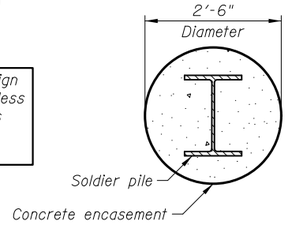


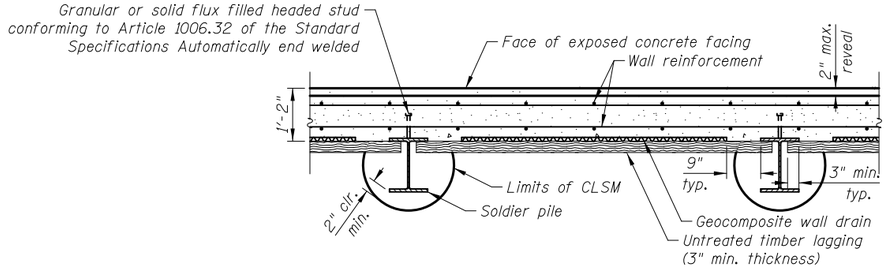
TYPICAL SECTION THRU WALL

(Looking North)

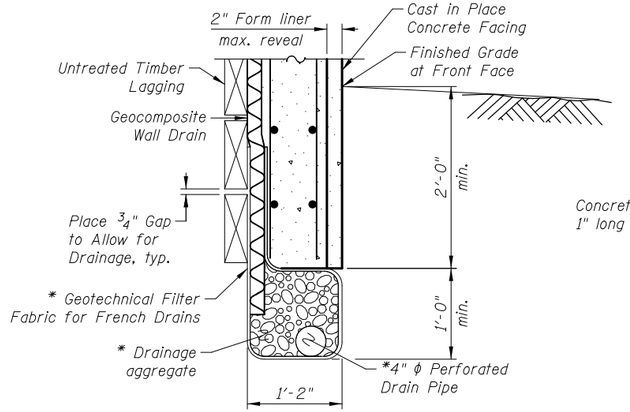
**The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a miniminum allowable bending stress of 1000 psi.



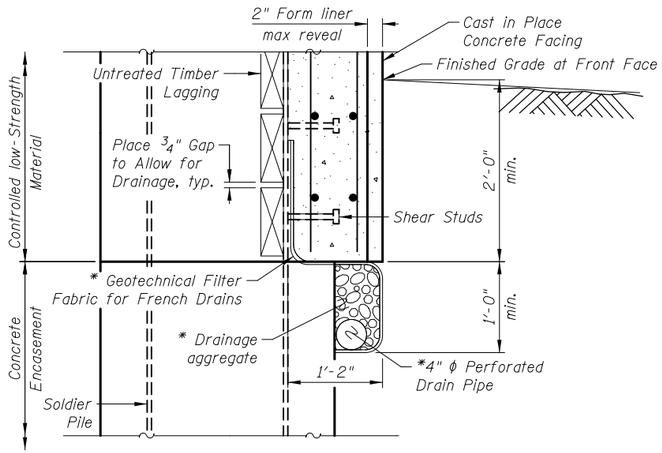
SOLDIER PILE ENCASEMENT



SECTION THRU DRILLED SOLDIER PILE WALL

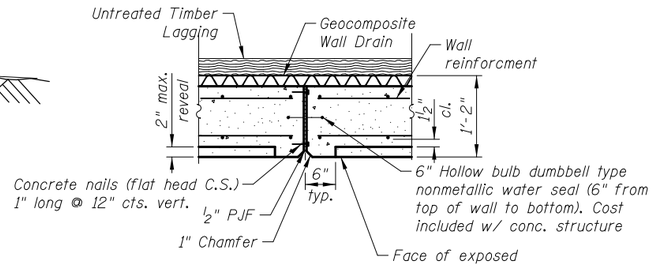


DRAINAGE DETAILS BETWEEN SOLDIER PILES

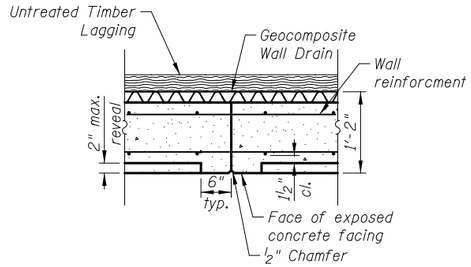


DRAINAGE DETAILS AT SOLDIER PILES

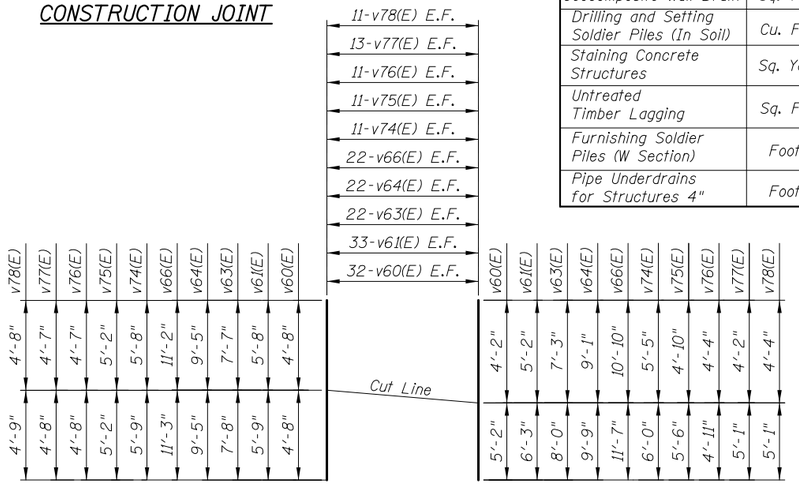
* Included in the cost of Pipe Underdrains for Structures, 4"



EXPANSION JOINT



CONSTRUCTION JOINT



FIELD CUTTING DIAGRAM

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h70(E)	12	#4	32'-7"	
h71(E)	250	#4	34'-7"	
h72(E)	160	#4	31'-8"	
h73(E)	4	#4	23'-9"	
h74(E)	10	#4	36'-7"	
h75(E)	2	#4	37'-7"	
h76(E)	12	#4	35'-8"	
v60(E)	64	#4	9'-4"	
v61(E)	66	#4	11'-5"	
v62(E)	44	#4	6'-5"	
v63(E)	44	#4	15'-3"	
v64(E)	44	#4	18'-10"	
v65(E)	44	#4	10'-8"	
v66(E)	44	#4	22'-5"	
v67(E)	44	#4	10'-11"	
v68(E)	44	#4	10'-2"	
v69(E)	44	#4	9'-4"	
v70(E)	44	#4	8'-3"	
v71(E)	44	#4	7'-5"	
v72(E)	44	#4	6'-11"	
v73(E)	44	#4	6'-4"	
v74(E)	22	#4	11'-5"	
v75(E)	22	#4	10'-4"	
v76(E)	22	#4	9'-3"	
v77(E)	26	#4	9'-3"	
v78(E)	22	#4	9'-5"	

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	958
Concrete Structures	Cu. Yd.	275.4
Form Liner Textured Surface	Sq. Ft.	5,914
Stud Shear Connectors	Each	763
Reinforcement Bars, Epoxy Coated	Pound	15,630
Geocomposite Wall Drain	Sq. Yd.	395
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	5,984
Staining Concrete Structures	Sq. Yd.	657
Untreated Timber Lagging	Sq. Ft.	4,784
Furnishing Soldier Piles (W Section)	Foot	1,839
Pipe Underdrains for Structures 4"	Foot	850

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DRAWN	-	C. BRABAND
DESIGNED	-	D. ATKINS
CHECKED	-	G. HATLESTAD
DATE	-	5/3/2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
WALL F; ILLINOIS ROUTE 31
STRUCTURE NO. 056-2505
SHEET NO. WF9 OF WF15 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	628
		CONTRACT NO. 60F72		
	ILLINOIS FED. AID PROJECT			

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5/2/2012
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