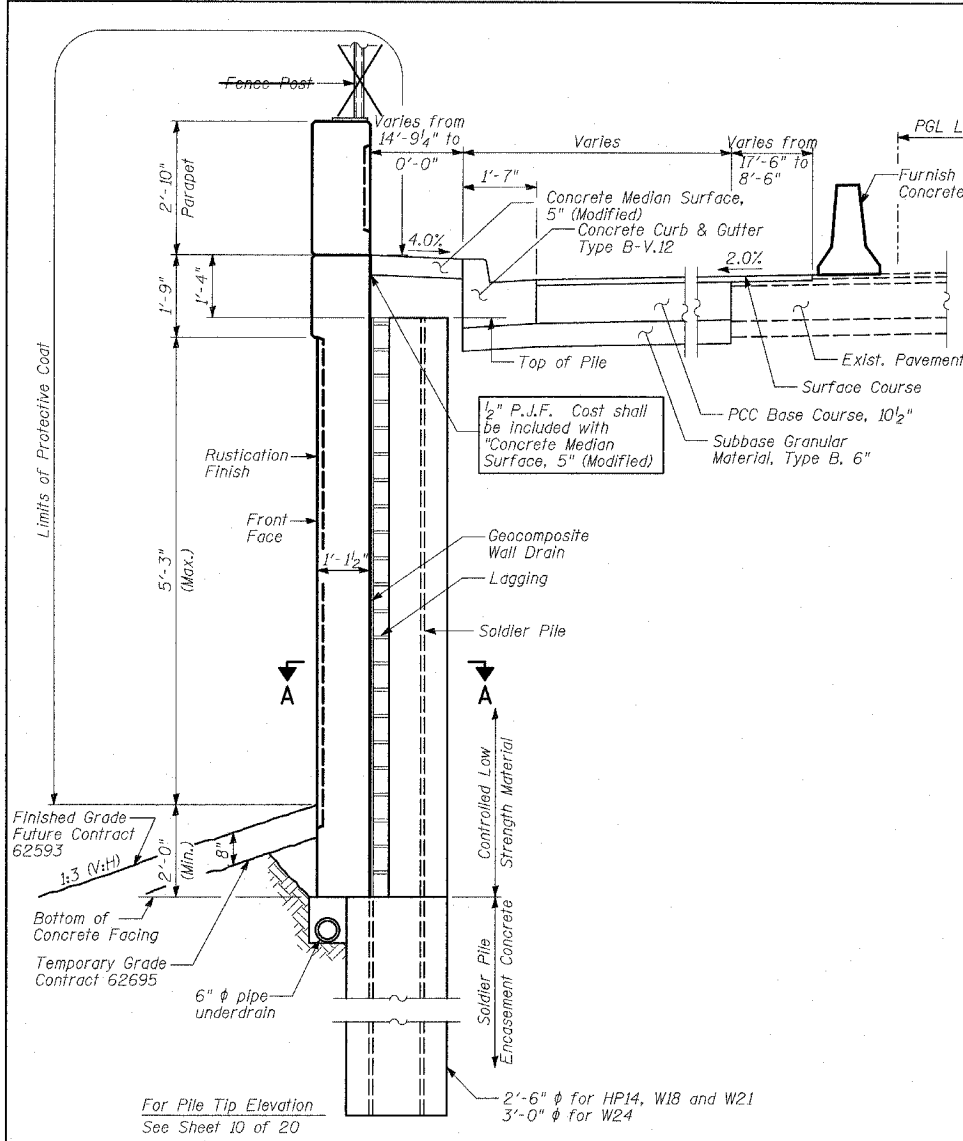
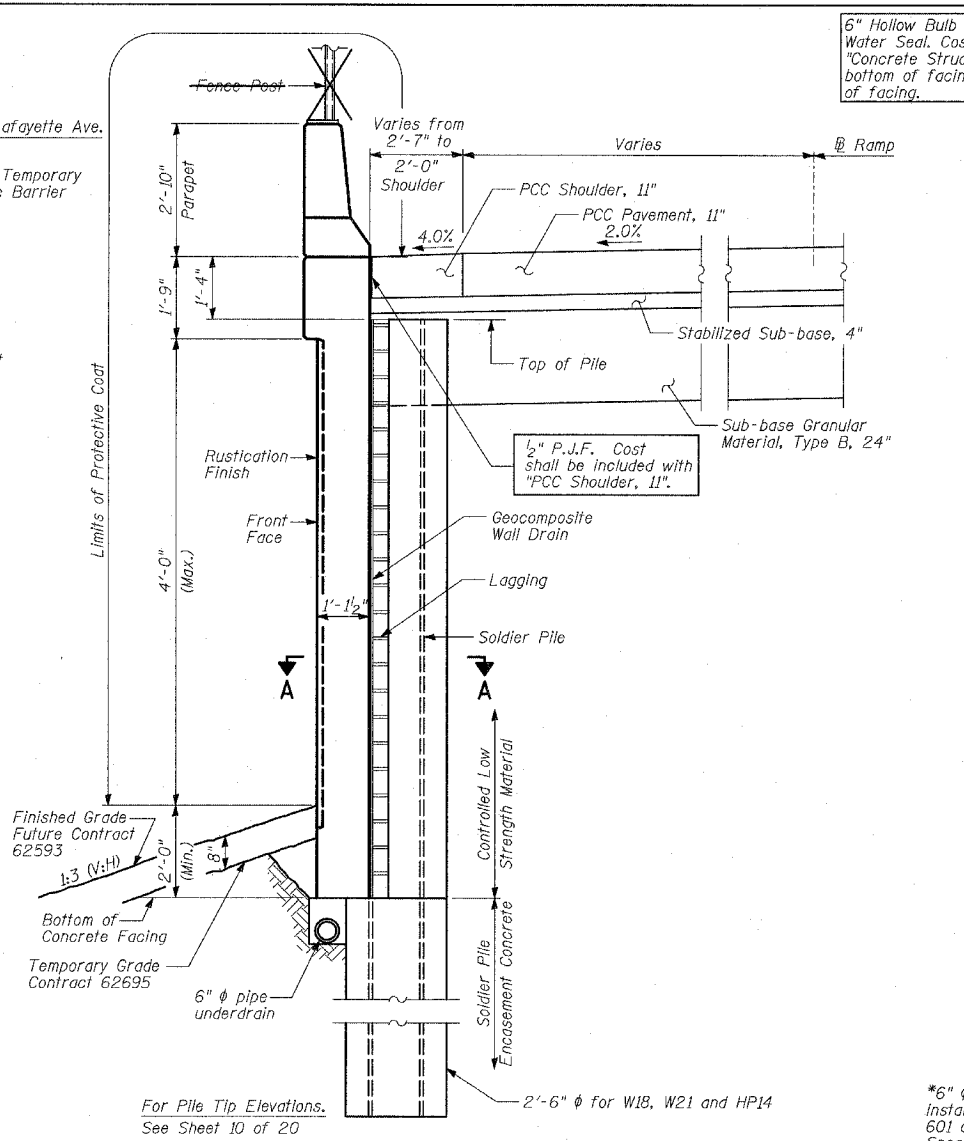


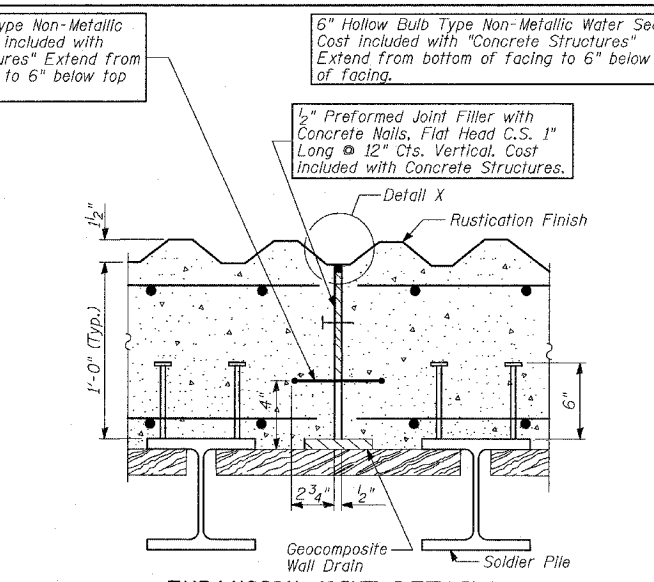
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	907	450
STA. 1200+00.00		TO STA. 1365+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) R-9				62695



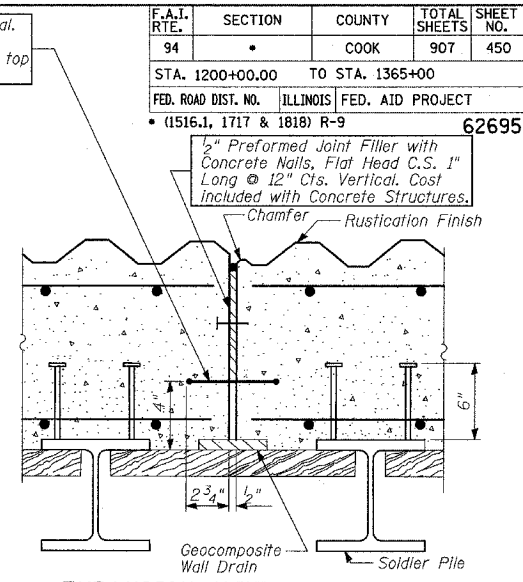
CROSS SECTION THRU WALL
 ** (Sta. 1210+22.42 to Sta. 1214+94.65)



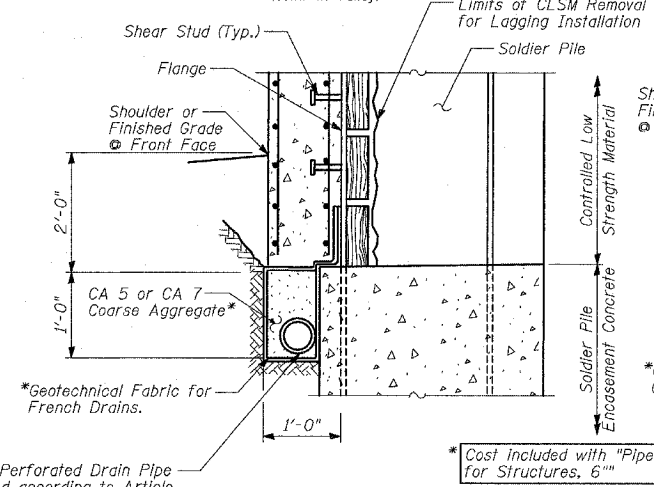
CROSS SECTION THRU WALL
 ** (Sta. 1214+94.65 to Sta. 1219+83.95)



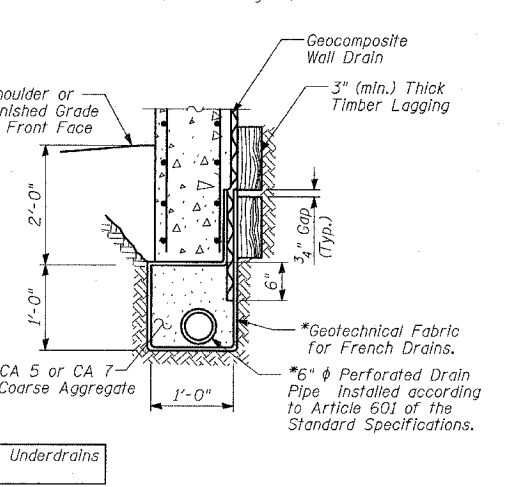
EXPANSION JOINT DETAILS
 (Joint in Valley)



EXPANSION JOINT DETAILS
 (Joint on Diagonal)



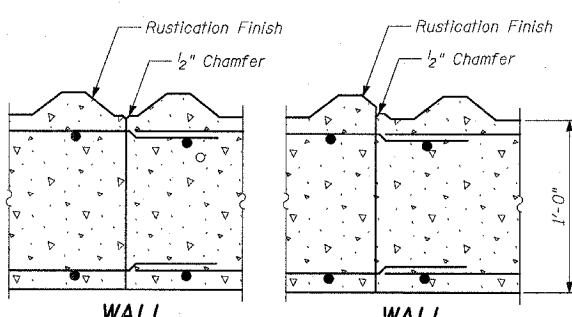
PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



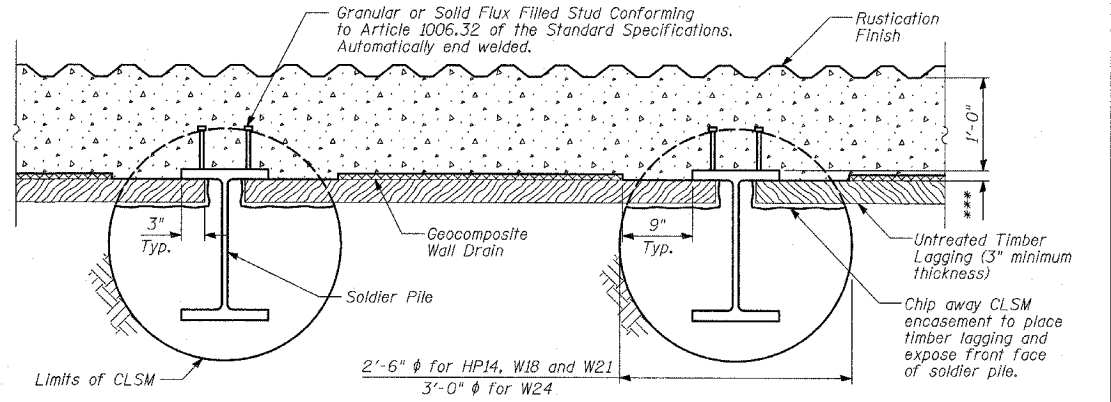
PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

- NOTES:**
- The geocomposite wall drain shall be constructed according to Section 591 of the Standard Specifications.
 - The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and the minimum tabulated unit stress in bending (f_b), used in the design of timber lagging shall be 1000 psi.
 - Stud shear connectors shall be 3/4" ϕ x 6" granular or solid flux filled headed studs, automatically end welded to the front flange of the soldier piles.

** For parapet transition details, see sheet 9 of 20.

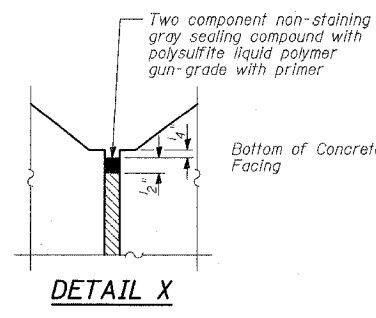


CONSTRUCTION JOINT DETAILS

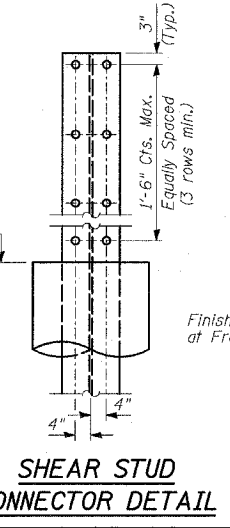


SECTION A-A

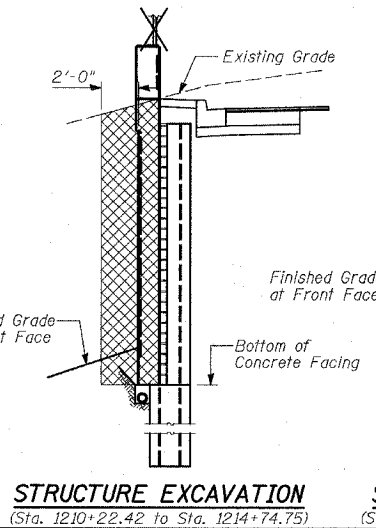
*** Cost of additional concrete between face of untreated timber lagging and face of pile included with "Concrete Structures".



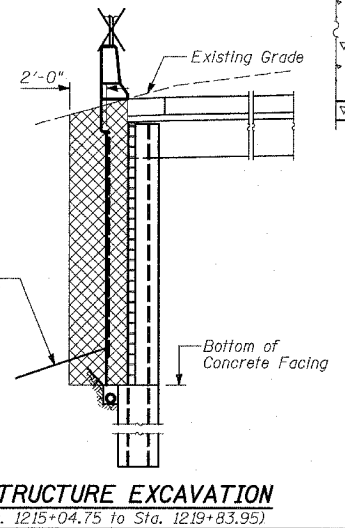
DETAIL X



SHEAR STUD CONNECTOR DETAIL



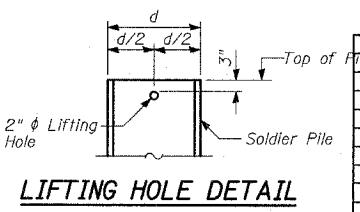
STRUCTURE EXCAVATION
 (Sta. 1210+22.42 to Sta. 1214+74.75)



STRUCTURE EXCAVATION
 (Sta. 1215+04.75 to Sta. 1219+83.95)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	746
Stud Shear Connectors	EACH	1,192
Untreated Timber Lagging	SQ FT	5,209
Geocomposite Wall Drain	SQ YD	633
Pipe Underdrains for Structures, 6"	FOOT	963



LIFTING HOLE DETAIL

REVISIONS

NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 EXIT RAMP TO 95TH ST.
 WALL 34
 S.N. 016-W946 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, TB
 DATE: MARCH 25, 2005 CHECKED BY: TD, MI

TYLIN INTERNATIONAL