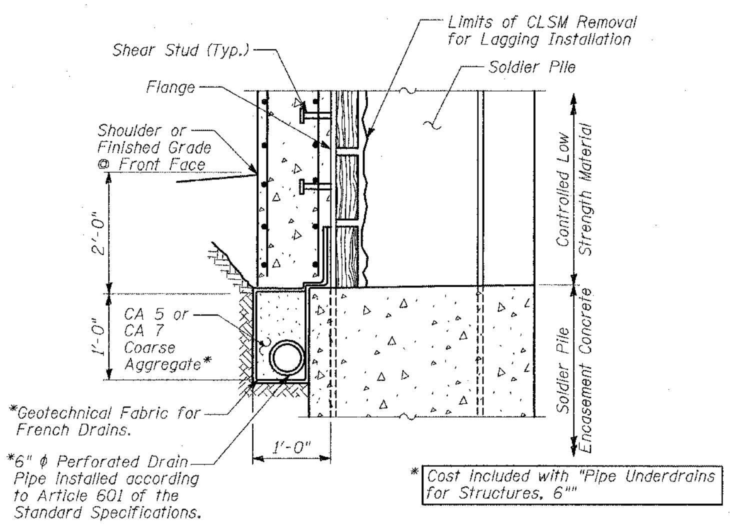
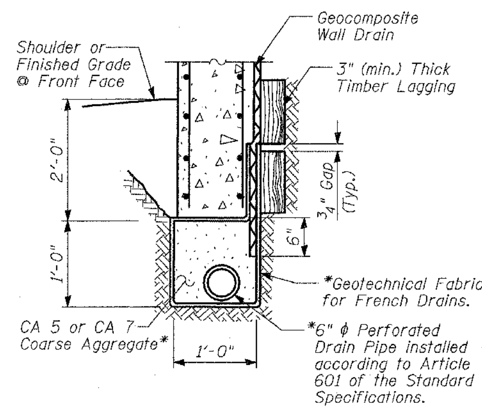
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	907	599
STA. 1200+00.00	TO STA. 1365+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (1516.1, 1717 & 1818) R-9

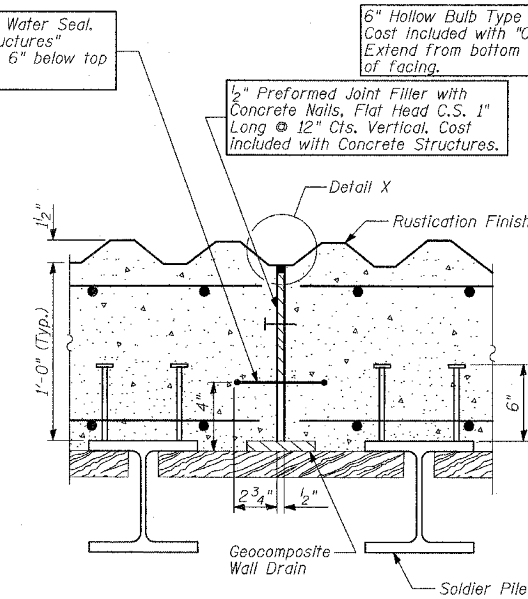
62695



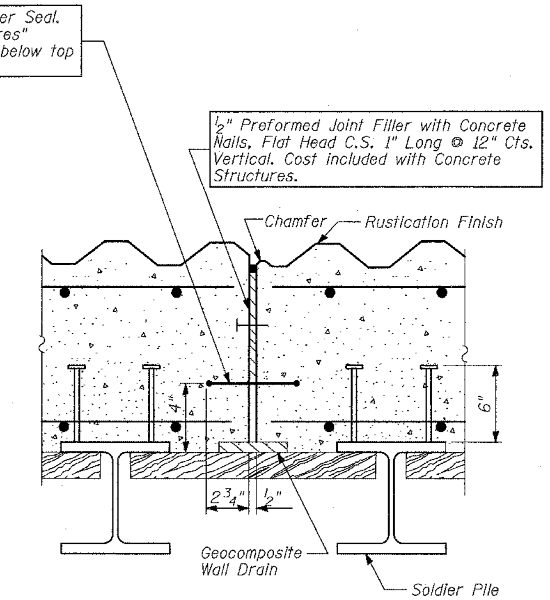
PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



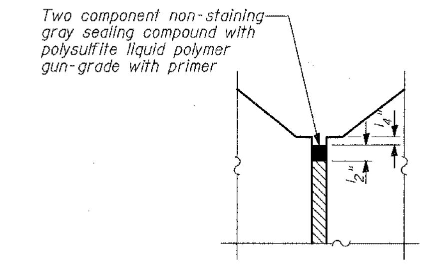
PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



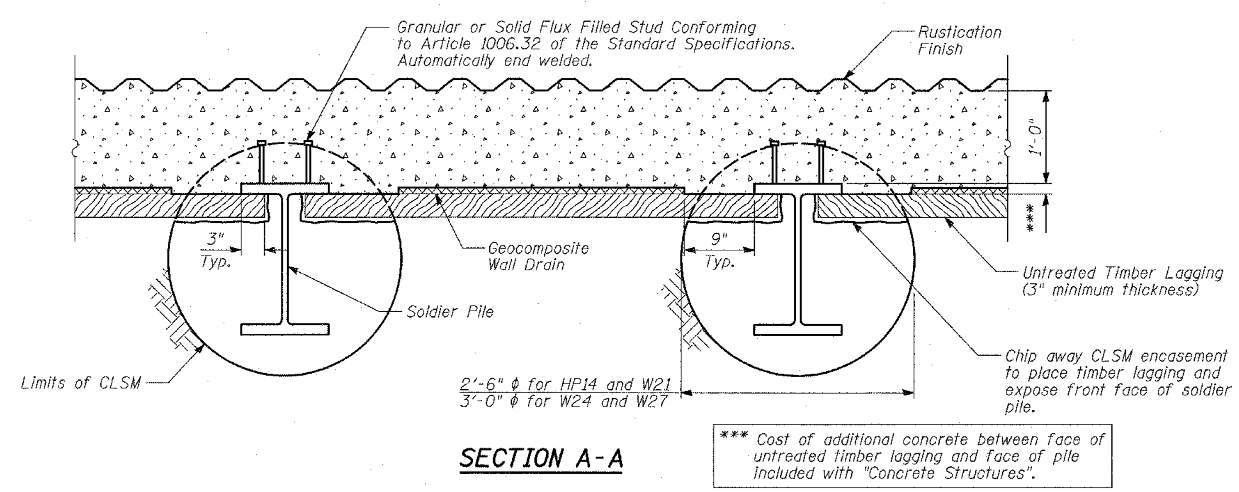
EXPANSION JOINT DETAILS
(Joint in Valley)



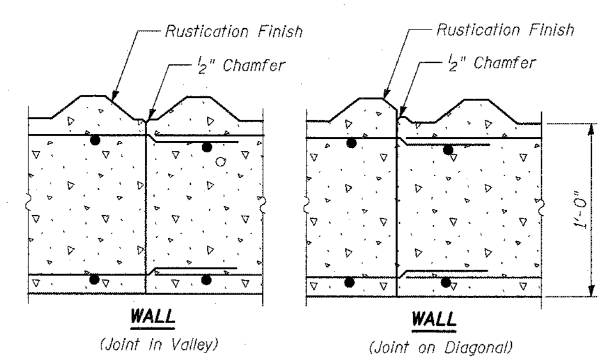
EXPANSION JOINT DETAILS
(Joint on Diagonal)



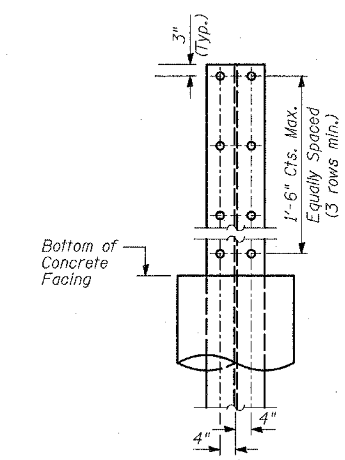
DETAIL X



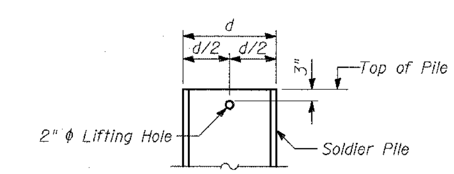
SECTION A-A



CONSTRUCTION JOINT DETAILS



STUD SHEAR CONNECTOR DETAIL



LIFTING HOLE DETAIL

NOTES:

1. The geocomposite wall drain shall be constructed according to section 591 of the standard specifications.
2. 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.
3. Stud shear connectors shall be ¾" x 6" granular or solid flux filled headed studs, automatically end welded to the front flange of the soldier piles.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	712
Stud Shear Connectors	EACH	1,042
Untreated Timber Lagging	SQ FT	4,757
Geocomposite Wall Drain	SQ YD	567
Pipe Underdrains for Structures, 6"	FOOT	690

TY·LIN INTERNATIONAL

SHEET 14 OF 25

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
77TH PL. TO 78TH ST.
WALL 73A
WALL CROSS SECTIONS & DETAILS (2 OF 2)

S.N. 016-W972 — DESIGNED BY: MI, DJR
SCALE: N.T.S. — DRAWN BY: DJR, MAF
DATE: MARCH 25, 2005 — CHECKED BY: TD, MI

03/29/2005 04:31:55 PM