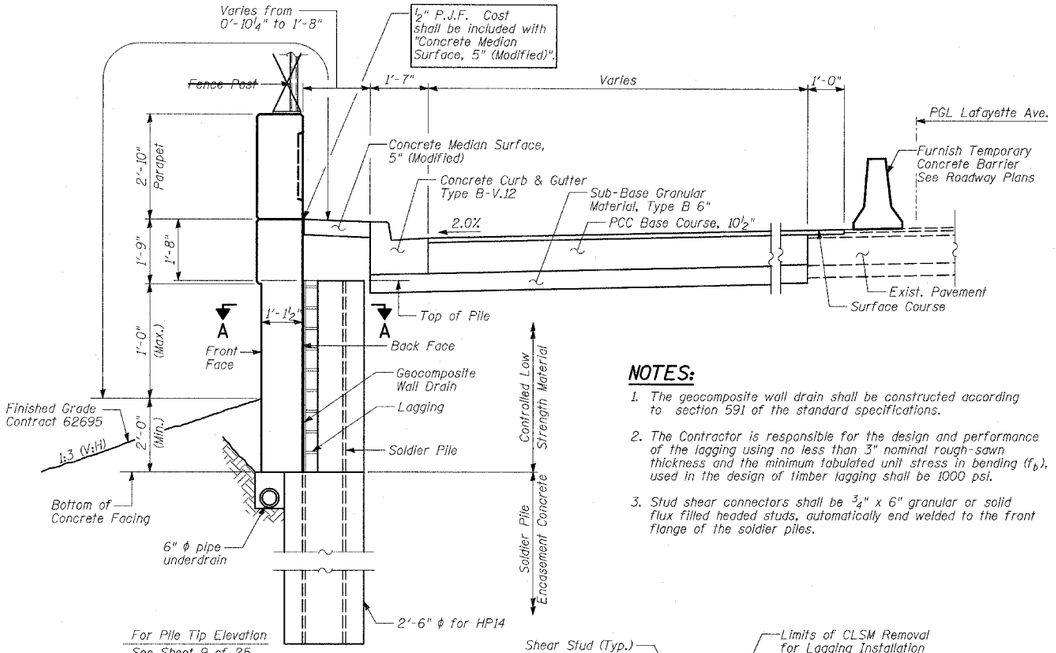
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	907	624

STA. 1200+00.00 TO STA. 1365+00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• (1516.1, 1717 & 1818) R-9

62695

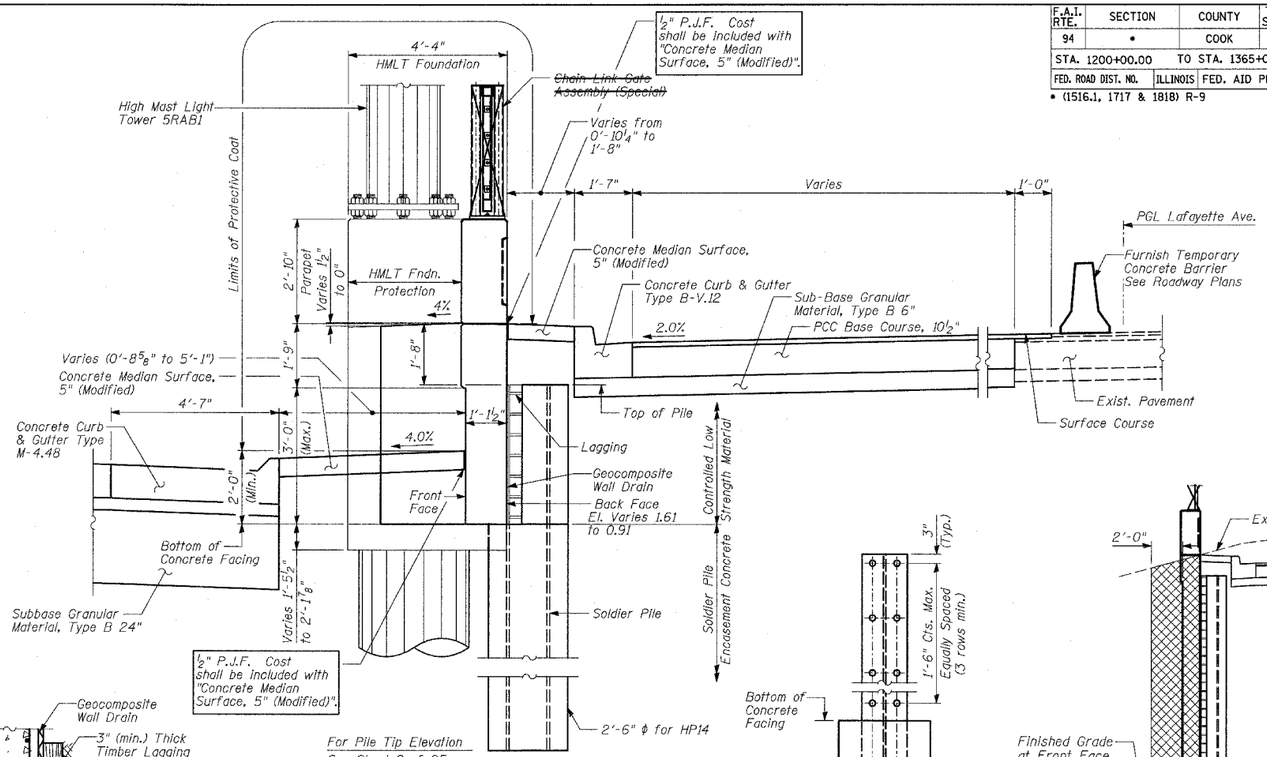


TYPICAL CROSS-SECTION

(Sta. 1328+28.65 to Sta. 1328+82.81)

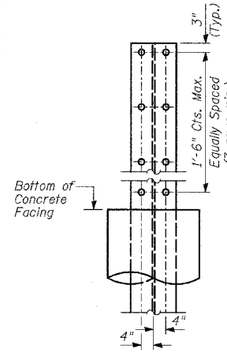
NOTES:

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.

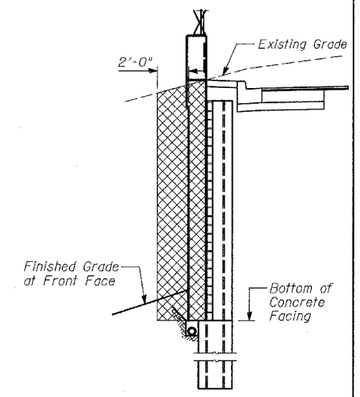


TYPICAL CROSS-SECTION

(Sta. 1328+82.81 to Sta. 1329+61.69)

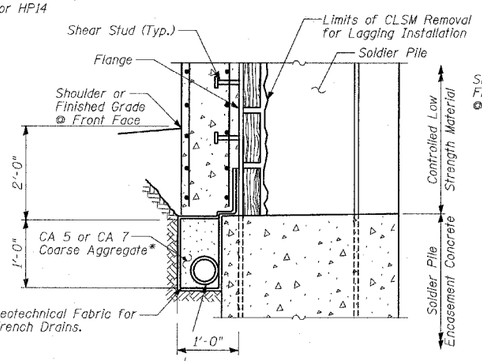


SHEAR STUD CONNECTOR DETAIL

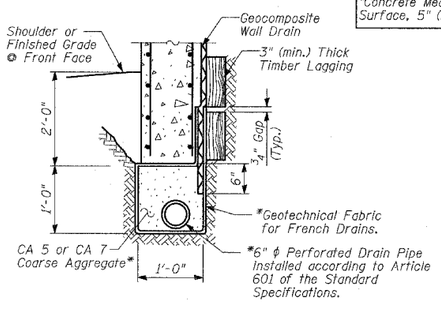


STRUCTURE EXCAVATION

(Sta. 1328+28.65 to Sta. 1329+61.69)

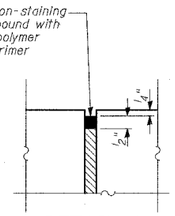


PIPE UNDERDRAIN DETAIL AT SOLDIER PILE

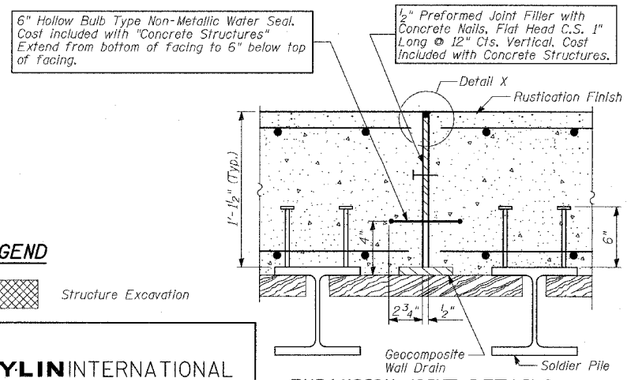


PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

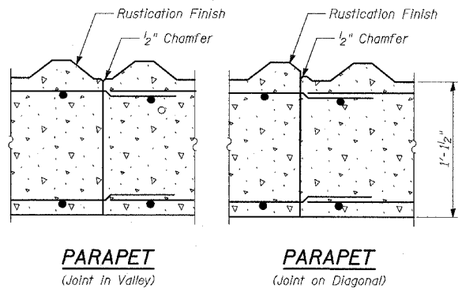
* Cost included with "Pipe Underdrains for Structures, 6""



DETAIL X



EXPANSION JOINT DETAILS



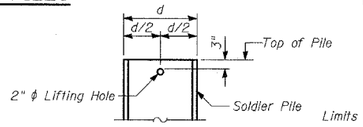
PARAPET

(Joint in Valley)

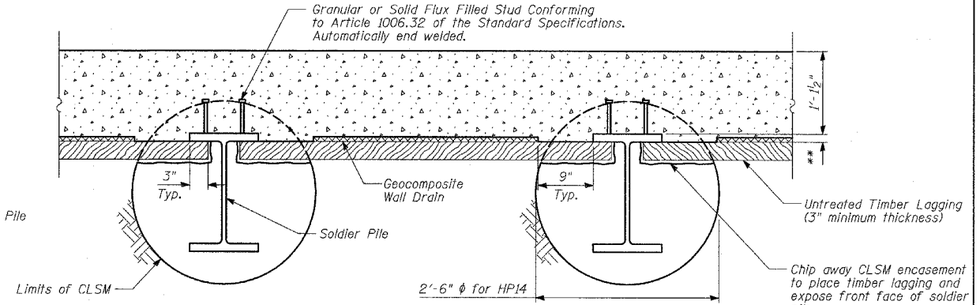
PARAPET

(Joint on Diagonal)

CONSTRUCTION JOINT DETAILS



LIFTING HOLE DETAIL



SECTION A-A

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	CU YD	482
Structure Excavation	CU YD	1,443
Stud Shear Connectors	EACH	108
Untreated Timber Lagging	SQ FT	368
Geocomposite Wall Drain	SQ YD	322
Pipe Underdrains for Structures, 6"	FOOT	645

LEGEND

Structure Excavation

TYLIN INTERNATIONAL

SHEET 14 OF 25

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

S.N.
SCALE:
DATE: MARCH 25, 2005
DESIGNED BY: MI, DJR
DRAWN BY: DJR
CHECKED BY: TD, MI

$FILE$
$TIME$
$DATE$