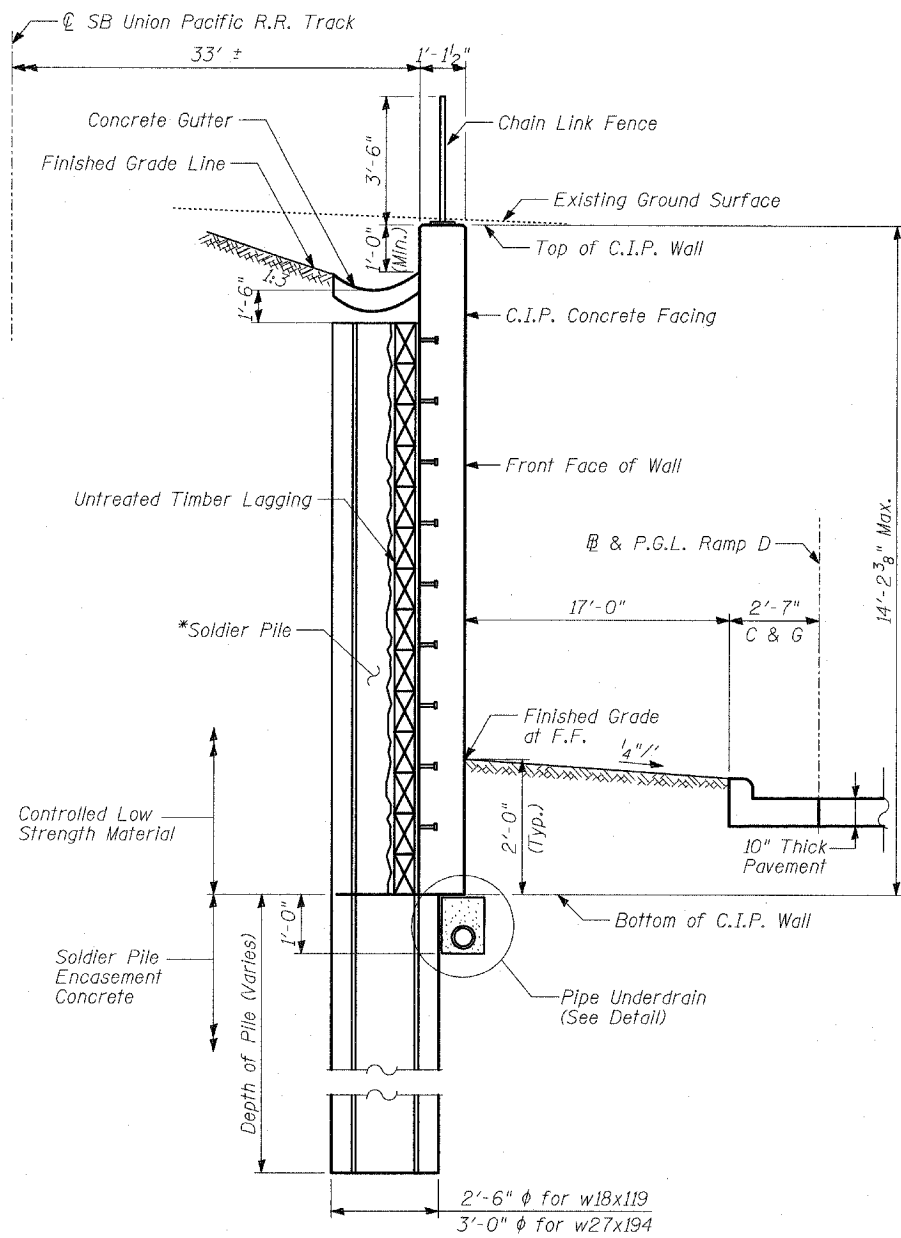
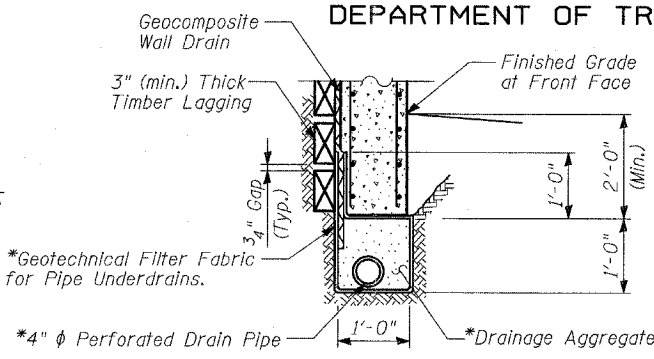


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		* 125X-HB-(1&2) R-1	CONTRACT # 60826	

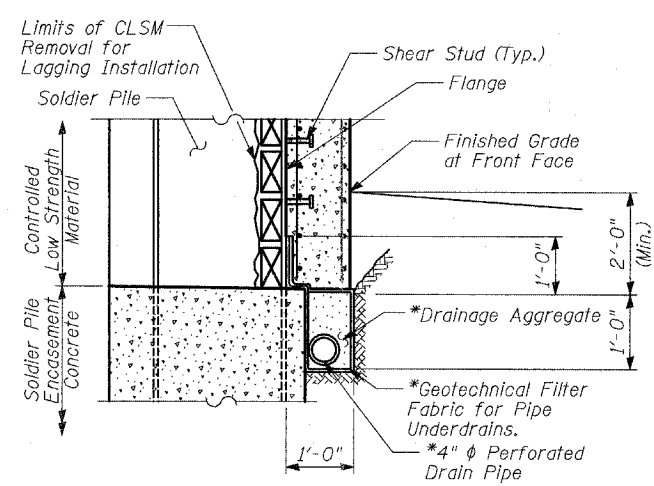


SECTION A-A
Sta. 402+17.09 to Sta 403+97.09
(Soldier Pile Wall)

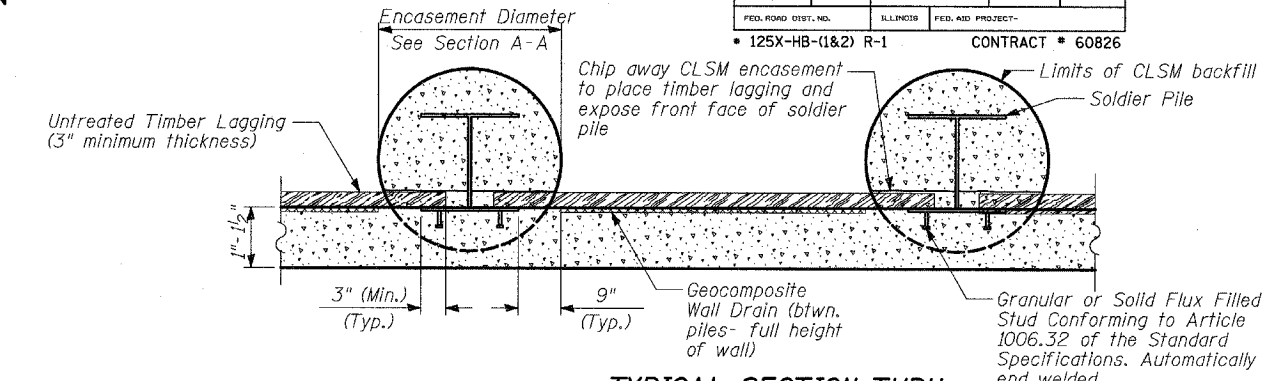


**PIPE UNDERDRAIN DETAIL
BETWEEN SOLDIER PILES**

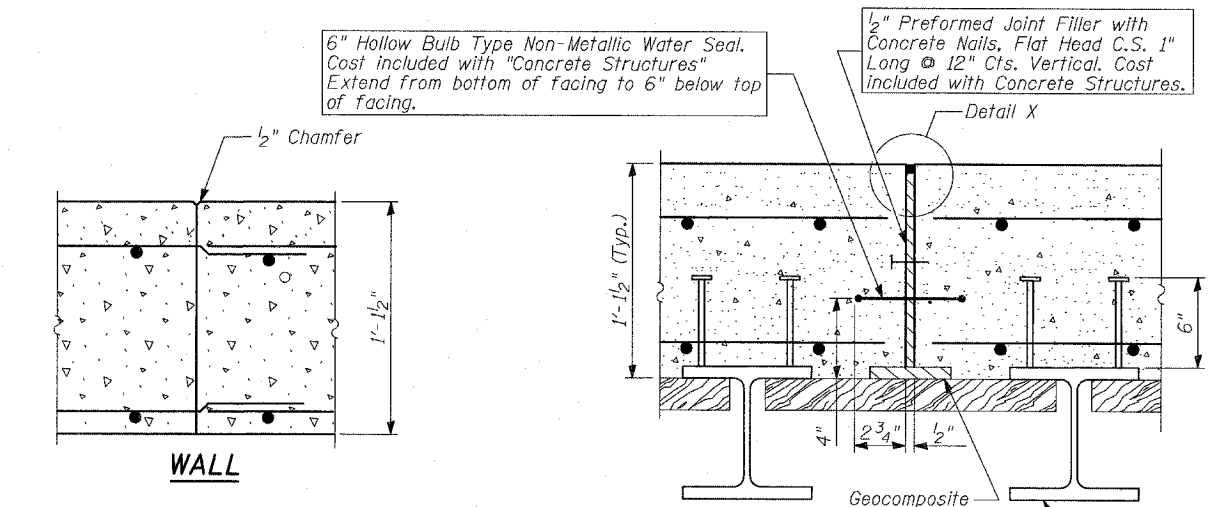
*Included in the cost of "Pipe Underdrains for Structures"



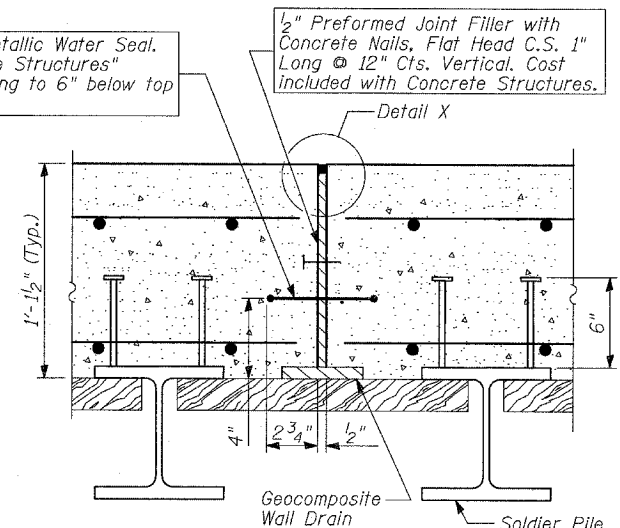
**PIPE UNDERDRAIN DETAIL
AT SOLDIER PILE**



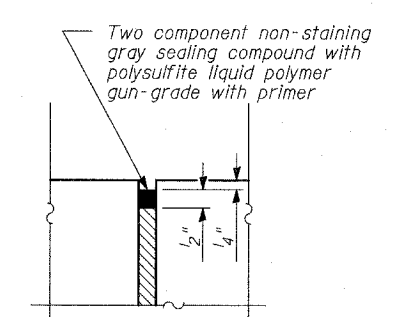
**TYPICAL SECTION THRU
SOLDIER PILE WALL**



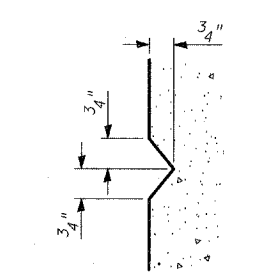
CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL

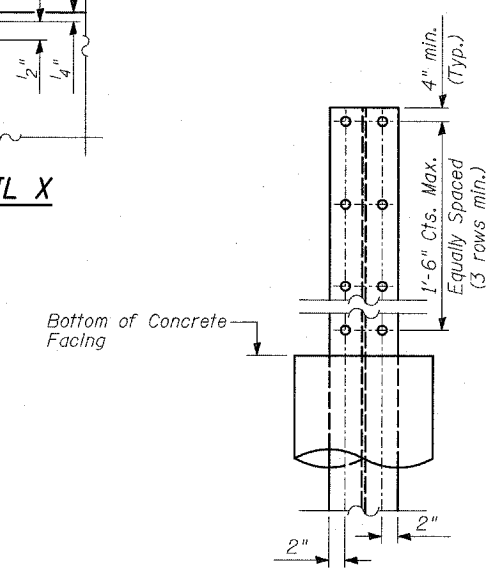


DETAIL X



CHAMFER DETAIL

Cost of Chamfer Included with "Concrete Structures"

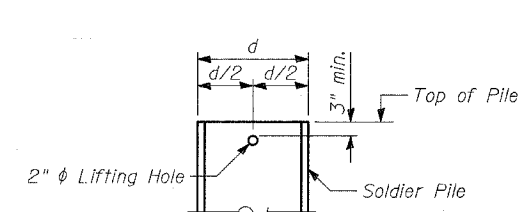


SHEAR STUD CONNECTOR DETAIL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	401
Stud Shear Connectors	EACH	266
Untreated Timber Lagging	SQ FT	1,401
Geocomposite Wall Drain	SQ YD	367
Pipe Underdrains for Structures, 4"	FOOT	320

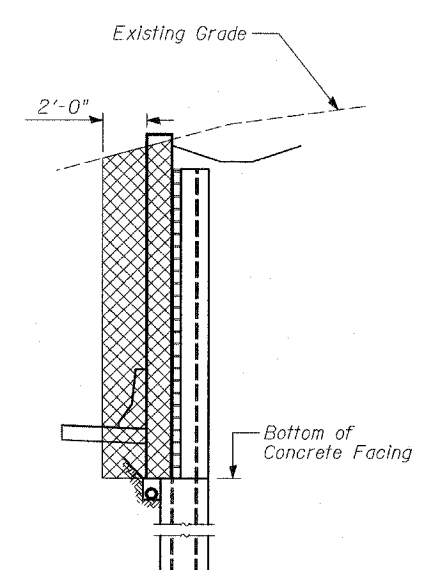
NOTES: BILL OF MATERIAL

- 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.



LIFTING HOLE DETAIL

Lifting hole to be provided if necessary. Cost included with "Furnishing Soldier Piles (W Section)"



STRUCTURE EXCAVATION

(For Proposed Wall)

TYLIN INTERNATIONAL

DESIGNED	- MB
CHECKED	- AD
DRAWN	- DE
CHECKED	- CM, AD

**WALL Q
DETAILS (1 OF 2)**

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W038