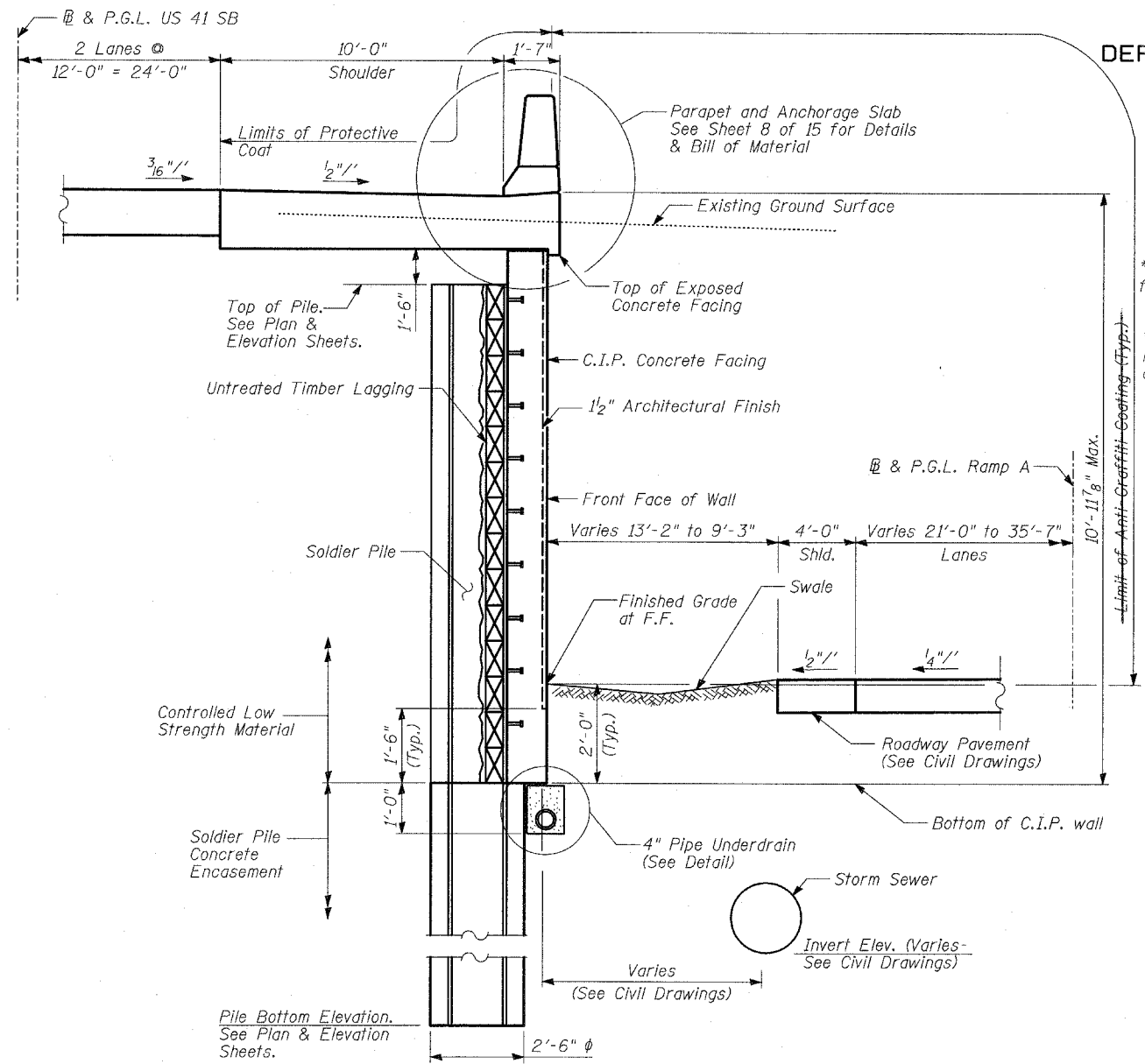


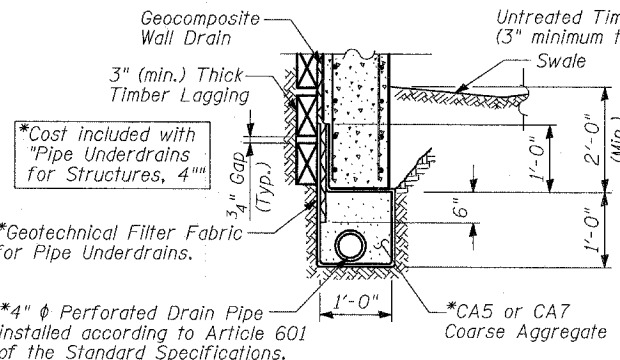
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346		LAKE	469	255
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		125X-HB-(1&2) R-1	CONTRACT # 60826	

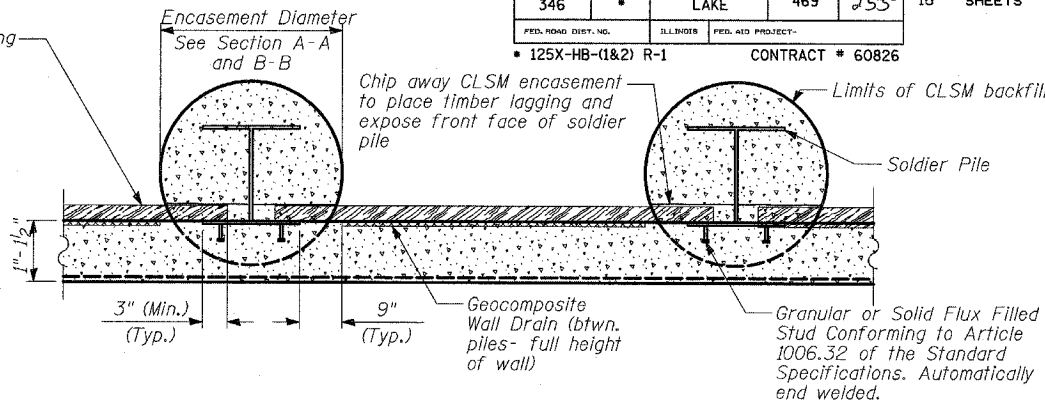
SHEET NO. - 5  
15 SHEETS



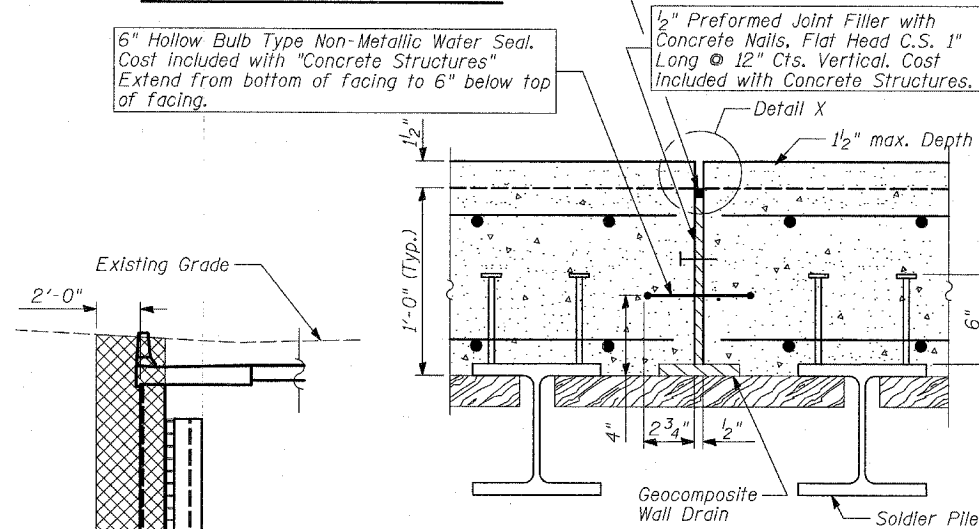
**SECTION A-A**  
Sta. 527+76.95 to Sta. 529+03.95



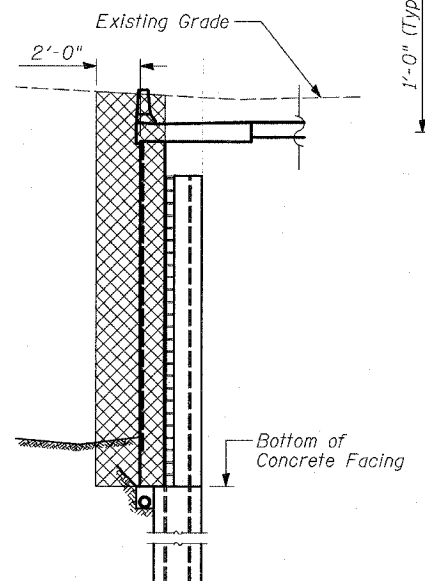
**PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES**



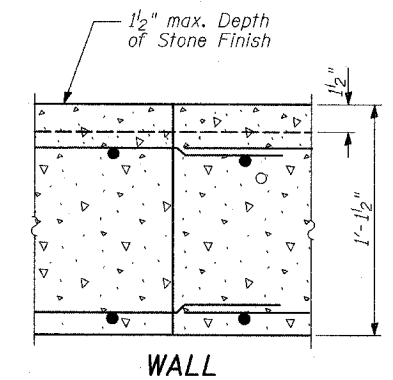
**TYPICAL SECTION THRU SOLDIER PILE WALL**



**EXPANSION JOINT DETAIL**

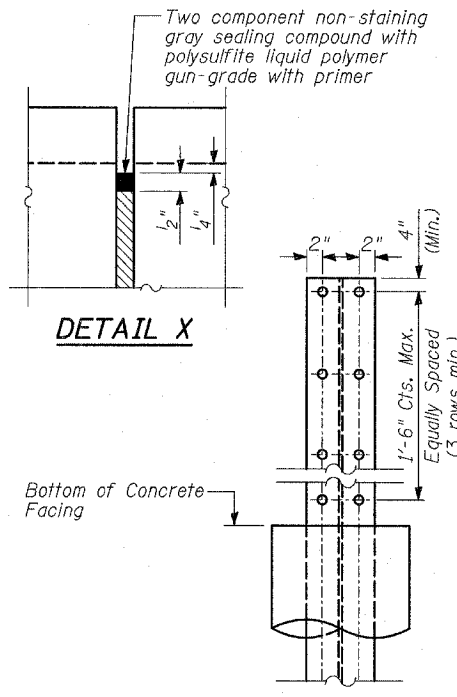


**STRUCTURE EXCAVATION (For Proposed Wall)**



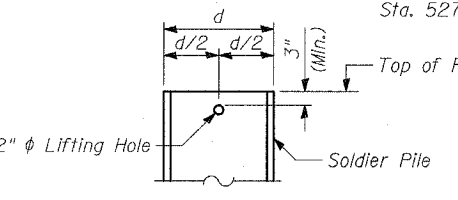
**WALL**

**CONSTRUCTION JOINT DETAIL**



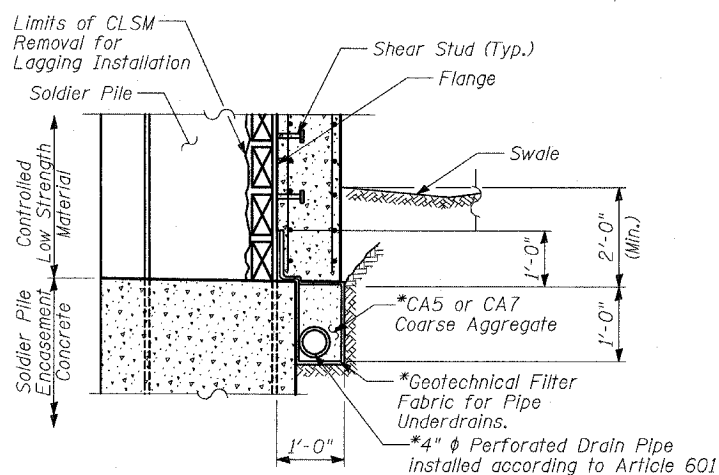
**DETAIL X**

**SHEAR STUD CONNECTOR DETAIL**



**LIFTING HOLE DETAIL**

Lifting Hole to be Provided if Necessary. Cost included with "Furnishing Soldier Piles (W Section).



**PIPE UNDERDRAIN DETAIL AT SOLDIER PILE**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	266
Stud Shear Connectors	EACH	330
Untreated Timber Lagging	SQ FT	1,536
Geocomposite Wall Drain	SQ YD	183
Pipe Underdrains for Structures, 4"	FOOT	217

**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"  $\phi$  x 6" granular or solid flux filled headed studs, automatically end welded to the front flange of the soldier piles.

**WALL K SECTIONS AND 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-W032

**TYLIN INTERNATIONAL**

DESIGNED	- MB
CHECKED	- AD
DRAWN	- CM
CHECKED	- AD