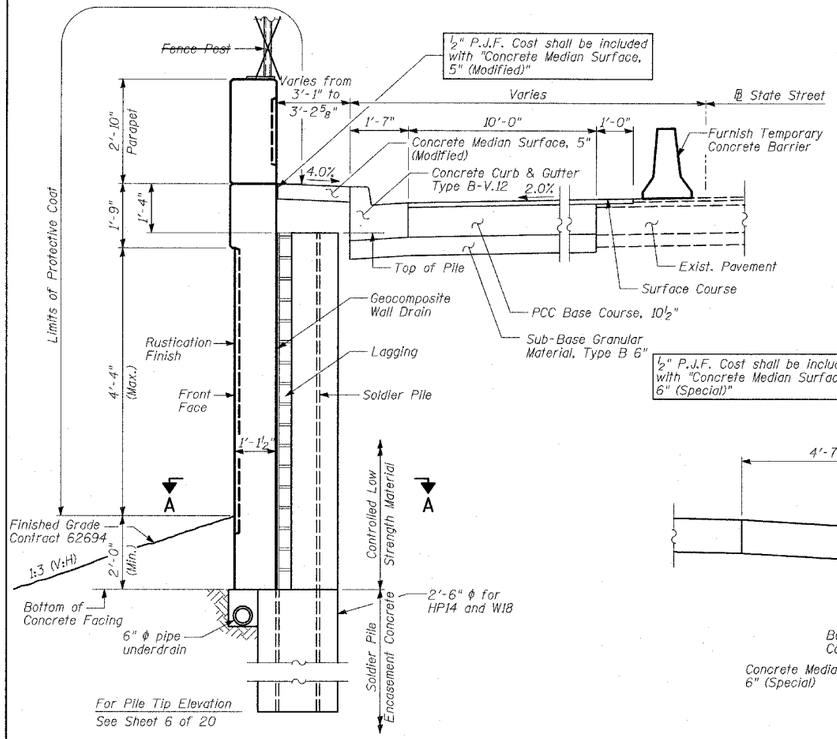
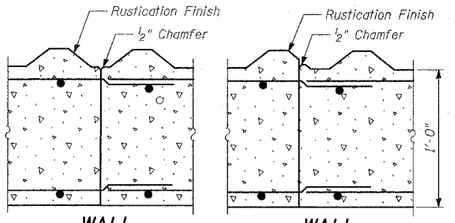



## CROSS SECTION THRU WALL

**** (From Sta. 2243+03.25 to Sta. 2243+25.91)
(From Sta. 2246+33.25 to Sta. 2248+26.24)

**** Light Tower Foundation not shown for clarity




## WALL
(Joint in Valley)

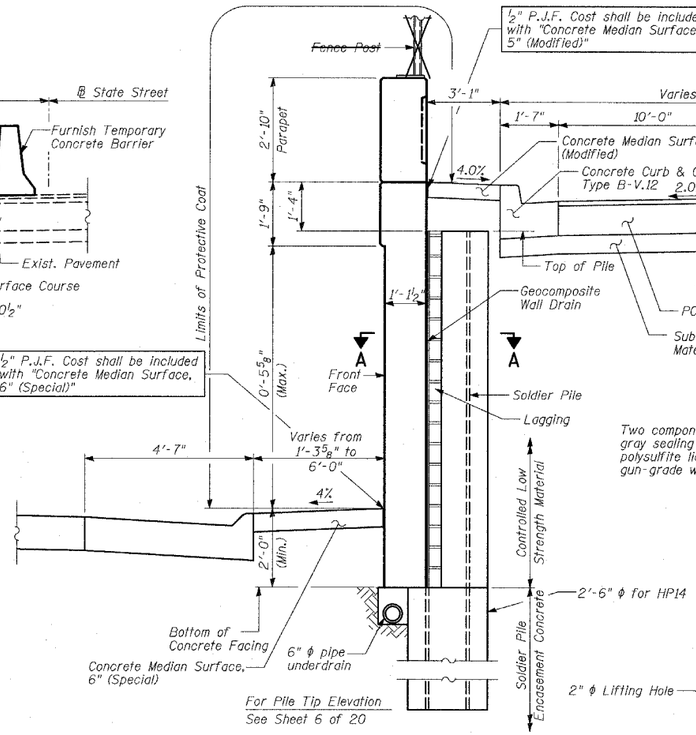



## WALL
(Joint on Diagonal)

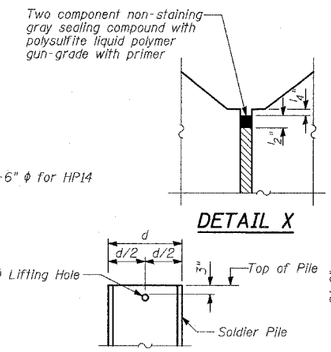
## CONSTRUCTION JOINT DETAILS

## NOTES:

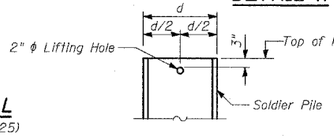
1. The geocomposite wall drain shall be constructed according to Section 591 of the Standard Specifications.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and the minimum tabulated unit stress in bending ($f_b$), used in the design of timber lagging shall be 1000 psi.
3. Stud shear connectors shall be ¾" ϕ x 6" granular or solid flux filled headed studs, automatically and welded to the front flange of the soldier piles.



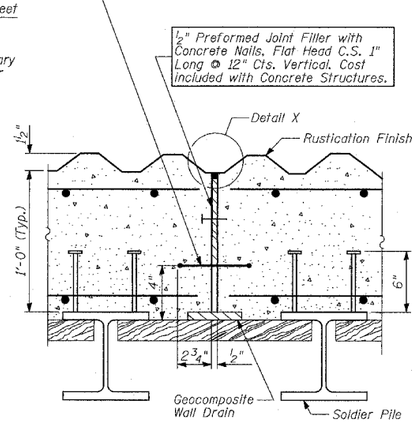

## CROSS SECTION THRU WALL
(From Sta. 2248+26.24 to Sta. 2249+03.25)



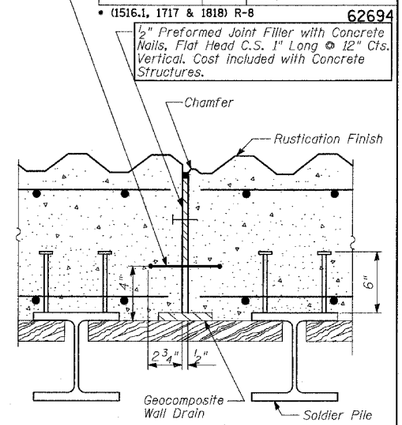

## DETAIL X



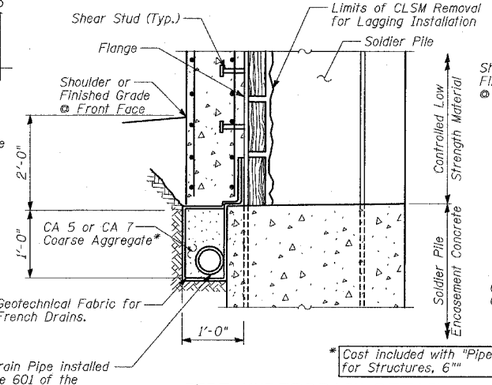

## LIFTING HOLE DETAIL



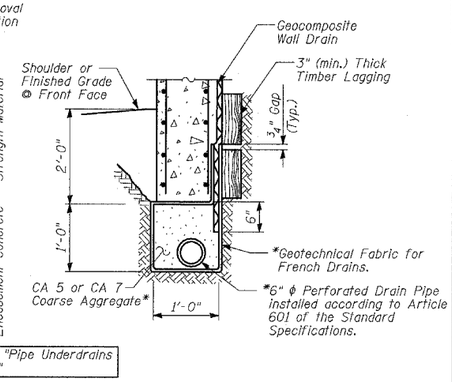

## EXPANSION JOINT DETAILS
(Joint in Valley)



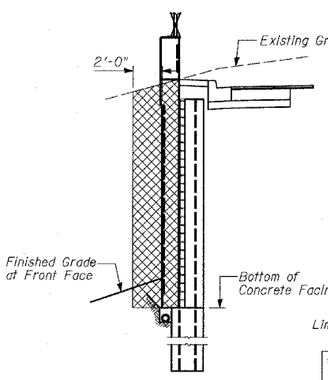

## EXPANSION JOINT DETAILS
(Joint on Diagonal)



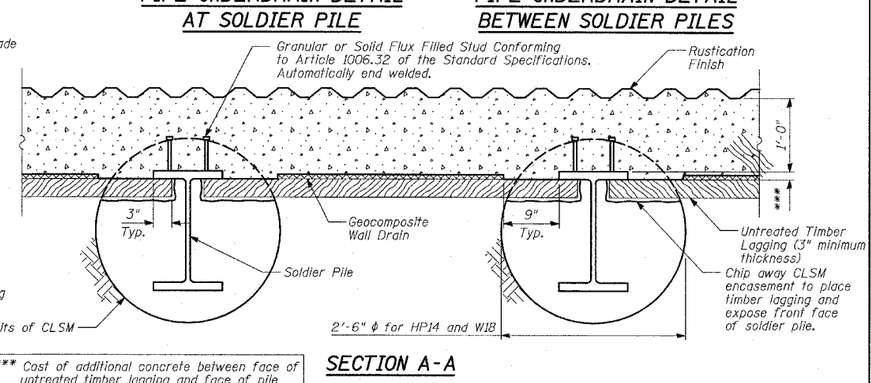

## PIPE UNDERDRAIN DETAIL AT SOLDIER PILE




## PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

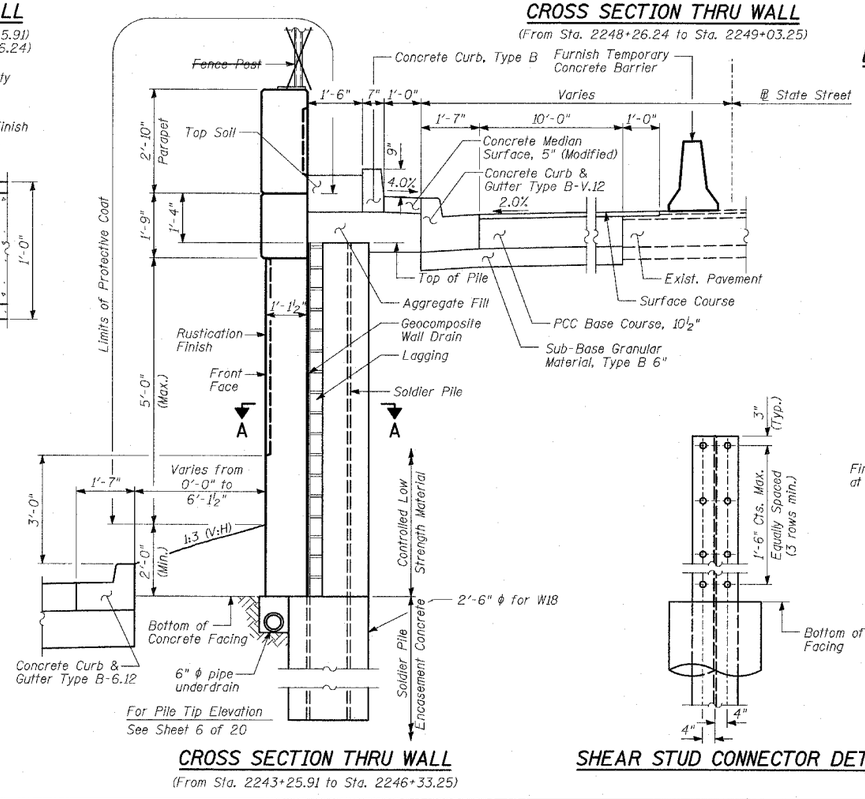



## STRUCTURE EXCAVATION
(For Proposed Wall)

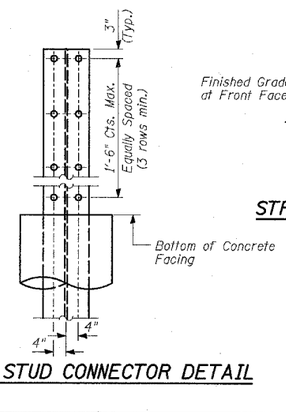



## SECTION A-A

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




## CROSS SECTION THRU WALL
(From Sta. 2243+25.91 to Sta. 2246+33.25)




## SHEAR STUD CONNECTOR DETAIL

## BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|---|---|---|
| Structure Excavation | CU YD | 473 |
| Stud Shear Connectors | EACH | 792 |
| Untreated Timber Lagging | SQ FT | 3,463 |
| Geocomposite Wall Drain | SQ YD | 418 |
| Pipe Underdrains for Structures, 6" | FOOT | 600 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94 | • | COOK | 860 | 506 |

STA. 2200+00.00 TO STA. 2362+00.00

| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |
|---|---|---|
| • (1516.1, 1717 & 1818) R-8 | | 62694 |

| REVISIONS NAME | DATE |
|---|---|
| | |
| | |
| | |
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| | |
| | |
| REVISED | 04/15/05 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
EXIT RAMP AT AIS #1
AIS 1
WALL CROSS SECTIONS & DETAILS

S.N. 016-W954 DESIGNED BY: MI, MAF
SCALE: N.T.S. DRAWN BY: MAF, DJR
DATE: MARCH 18, 2005 CHECKED BY: TD, MI

SHEET 9 OF 20

TYLIN INTERNATIONAL