

TOTAL SHEET SHEETS NO. COUNTY соок 907 430 STA. 1200+00.00 TO STA. 1365+00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT \* (1516.1, 1717 & 1818) R-9 62695

## TOTAL BILL OF MATERIAL

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ITEM	UNIT	TOTAL
Structure Excavation	CU YD	140
Concrete Structures	CU YD	84
Protective Coat	SQ YD	266
Rustication Finish	SQ FT	996
Stud Shear Connectors	EACH	242
Untreated Timber Lagging	SQ FT	973
Furnishing Soldier Piles (W Section)	FOOT	983
Reinforcement Bars, Epoxy Coated	POUND	10,760
Geocomposite Wall Drain	SQ YD	119
Pipe Underdrains for Structures, 6"	F00T	180
Chain Link Gates (Special)	EACH	
Drilling and Setting Soldier Piles (in Soil)	CU FT	5,237
Chain Link Fence, 42" Attached to Structure (Special)	<i>Г00Т</i>	204

## DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications

### DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement) fy = 36,000 psi (M270 Grade 36)

Max. Soil Pressure Under Footing = 1,800 psf

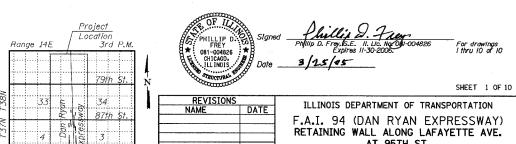
### INDEX OF SHEETS

- GENERAL PLAN
- PLAN AND ELEVATION STA, 1203+26,72 TO STA, 1204+51.11 PLAN AND ELEVATION STA. 1203+26.72 TO STA. 1203+51.11
  PLAN AND ELEVATION STA. 1203+51.11 TO STA. 1205+11.63,
  PILE LAYOUT, DETAILS & BILL OF MATERIAL
  FLUTED KNEE WALL DETAILS 1
  FLUTED KNEE WALL DETAILS 2
  WALL CROSS SECTIONS & DETAILS
  RUSTICATION DETAILS

- 9. BORING LOGS SB33-01 & SB33-02
- 10. BORING LOG SB33-03

# GENERAL NOTES:

- 1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- 2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually finished at the unit price bid for the work.
- 3. 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.
- 4. The soldier piles shall be cleaned and given one shop coat of Inorganic Zinc-Rich primer.
- 5. All exposed concrete edges shall be chamfered 3/4" except as noted.
- 6. Protective Coat shall be applied to exposed surfaces of the concrete facing.
- 7. Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according directions given on the roadway plans.
- 8. Manual excavation shall be performed to limit disturbance to the existing CTA transformers and servicing conduit(s). Service to the CTA transformers shall not be interrupted.
- 9. All construction joints shall be bonded.
- 10. All elevations shown are based on the Chicago City Datum of 0.00, which is 579.19 feet above mean tide New York. (NAVD 88)
- The wall shall be backfilled (where applicable) prior to placing the concrete facing.
- 12. Riser Shaft and Jacking Pit to have been constructed by others in Contract 62692.
- 13. The Contractor is responsible to coordinate all electrical crossings with this Contract and with Contract 62583.



S.N. 016-W959

AT 95TH ST. WALL 33 - GENERAL PLAN

STA. 1203+26.72 TO STA. 1205+11.63 DESIGNED BY: MI, TB

DRAWN BY: DJR, TB

SCALE: N.T.S.

DATE: MARCH 25, 2005

CHECKED BY: TD, MI