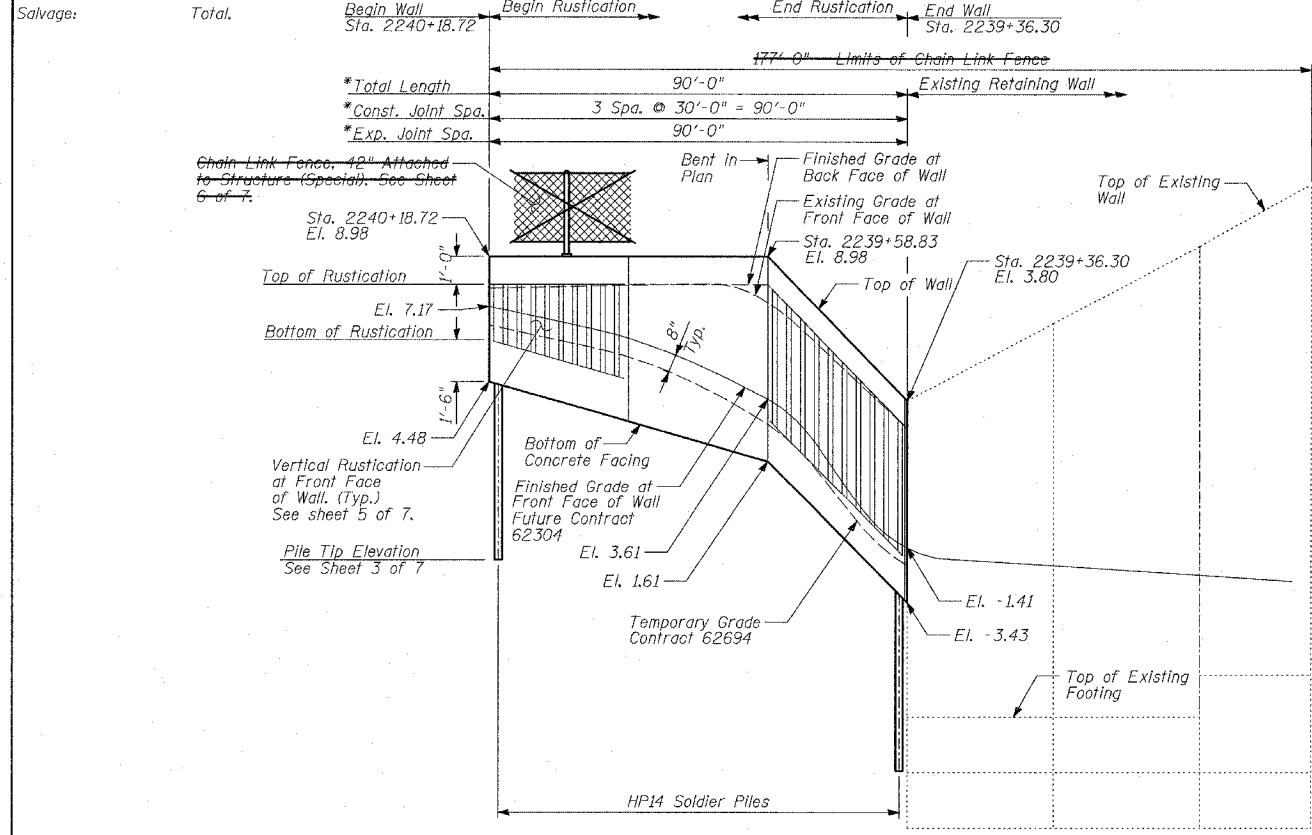
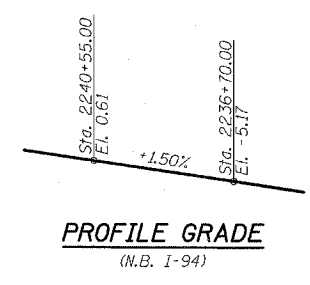


Benchmarks: BM 3552 Set "+" northeast bolt of traffic signal/light base at southeast intersection of 91st St. and State St. El. 14.81

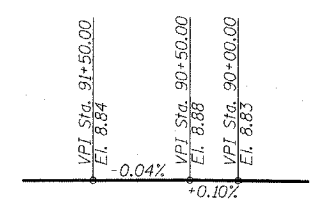
Existing Structure: Reinforced concrete cantilever retaining wall, supported on concrete spread footings, along Northbound Dan Ryan Built in 1960. Total length ±87'.



ELEVATION



PROFILE GRADE
(N.B. I-94)



PROFILE GRADE
(State Street)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	54
Concrete Structures	CU YD	24
Protective Coat	SQ YD	72
Rustication Finish	SQ FT	340
Stud Shear Connectors	EACH	116
Untreated Timber Lagging	SQ FT	395
Furnishing Soldier Piles (HP Section)	FOOT	360
Reinforcement Bars, Epoxy Coated	POUND	2,370
Geocomposite Wall Drain	SQ YD	49
Pipe Underdrains for Structures, 6"	FOOT	90
Drilling and Setting Soldier Piles (in Soil)	CU FT	1,815
Chain Link Fence, 42" Attached to Structure (Special)	FOOT	177

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

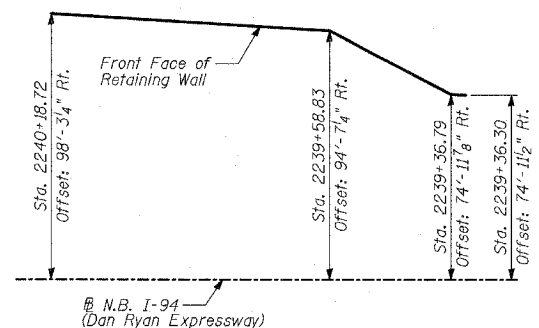
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)
 Soldier Piles

INDEX OF SHEETS

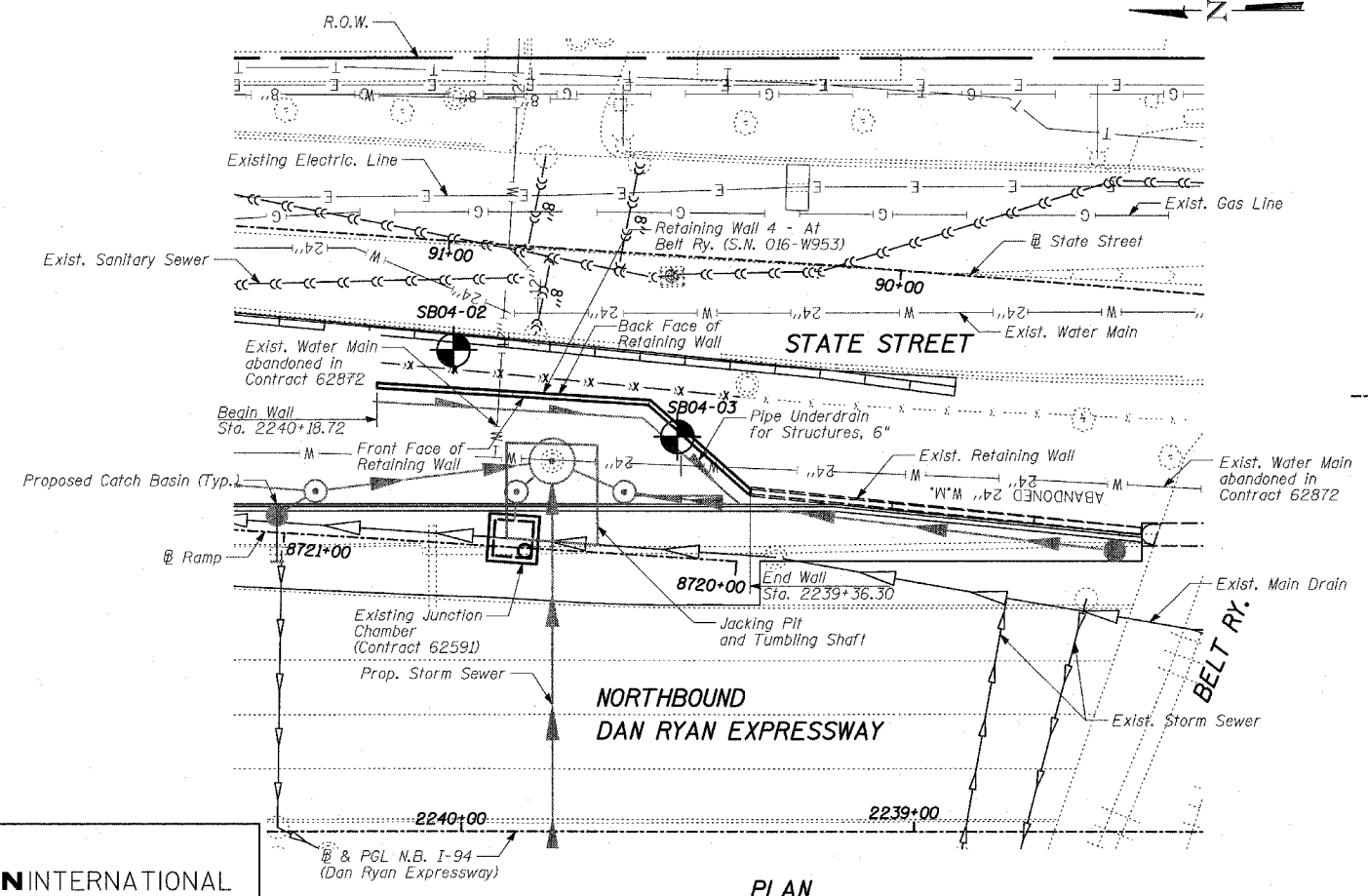
1. GENERAL PLAN
2. PLAN AND ELEVATION STA. 2240+18.72 TO STA. 2239+36.30
3. PILE LAYOUT, DETAILS & BILL OF MATERIAL
4. WALL CROSS SECTIONS & DETAILS
5. RUSTICATION DETAILS
6. CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
7. BORING LOGS SB04-02 & SB04-03

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. Plan dimensions and details relative to the 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 to directions given on the roadway plans.
8. All construction joints shall be bonded.
9. 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)
10. The wall shall be backfilled (where applicable) prior to placing the concrete facing.
11. The Contractor is responsible to coordinate all electrical crossings with this Contract and with Contract 62583.



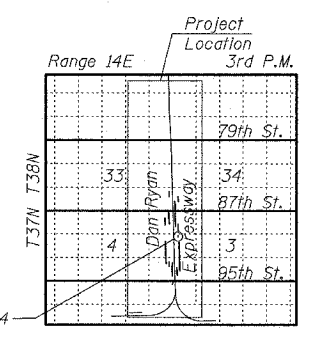
OFFSET SKETCH



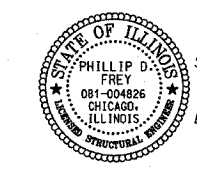
PLAN

LEGEND

- Boring Location
- * Measured along Front Face of Wall.



LOCATION SKETCH



Signed: *Phillip D. Frey*
 PHILLIP D. FREY, S.E., Ill. Lic. No. 004826
 Expires 11-30-2006. For drawings 1 thru 7 of 7
 Date: 3/18/05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 AT BELT RY.
 WALL 4 - GENERAL PLAN
 STA. 2240+18.72 TO STA. 2239+36.30
 S.N. 016-W953 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, TB
 DATE: MARCH 18, 2005 CHECKED BY: TD, MI