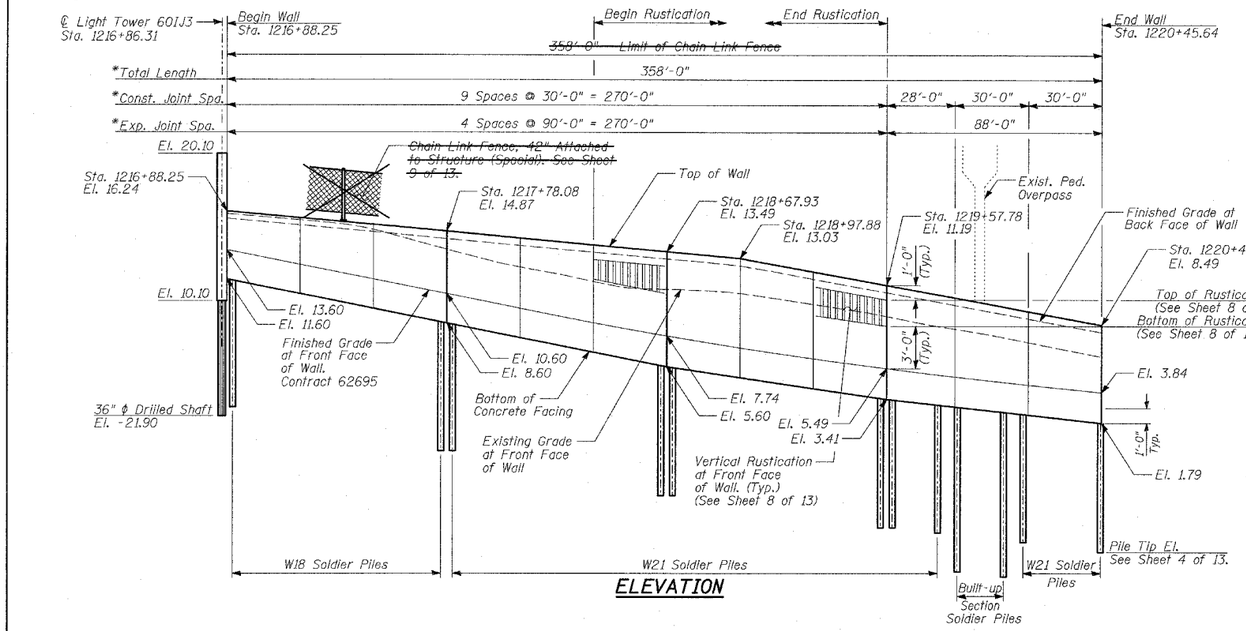
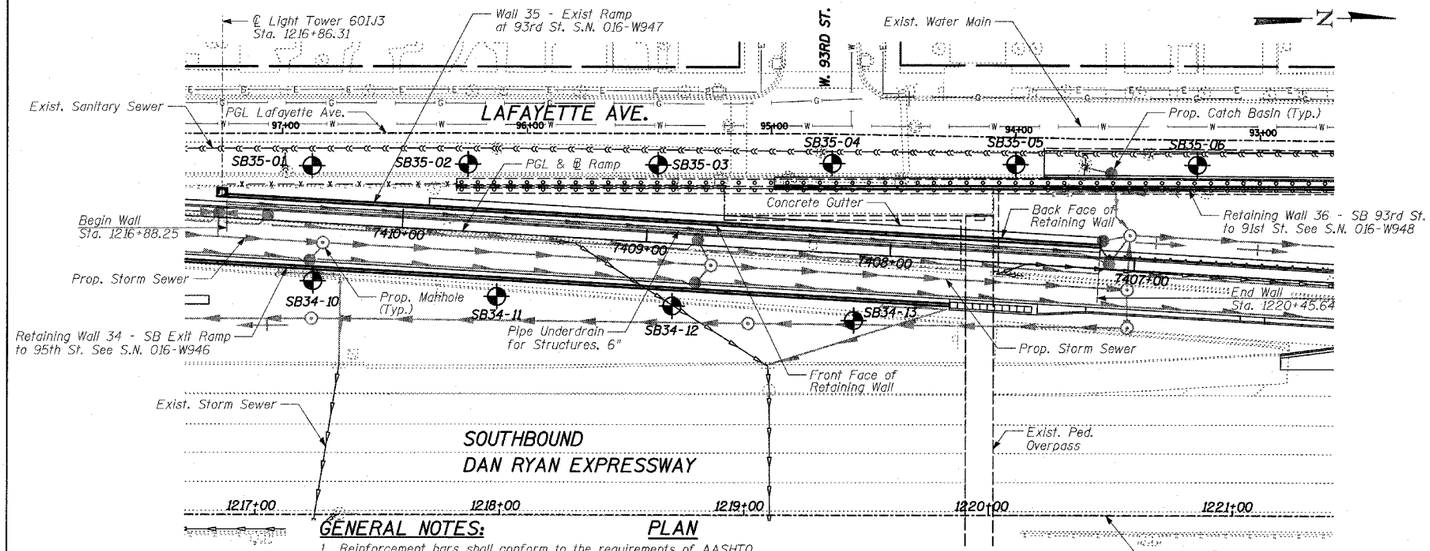
Benchmarks: BM 3550 Set "+" westerly flange bolt of hydrant at southwest intersection of 91st St. and Lafayette Ave. El. 22.88

Existing Structure: None



ELEVATION



PLAN

GENERAL NOTES:

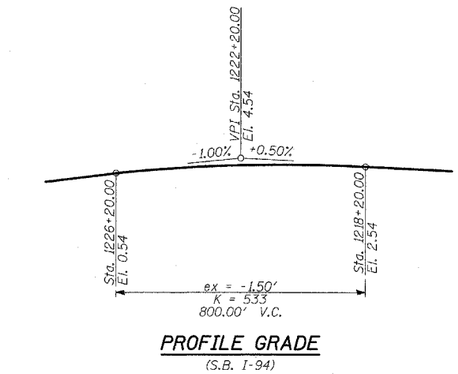
1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additonal 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), 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. The HSS structural steel lagging shall be cleaned and given one shop coat of Inorganic Zinc-Rich primer. Cost included with "Furnishing and Erecting Structural Steel."
6. All exposed concrete edges shall be chamfered $\frac{3}{4}$" except as noted.
7. Protective Coat shall be applied to exposed surfaces of the concrete facing.
8. Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according to directions given on the roadway plans.
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)
11. The wall shall be backfilled (where applicable) prior to placing the concrete facing.
12. The Contractor is responsible to coordinate all electrical crossings with this Contract and with Contract 62583.

LEGEND

Boring Location

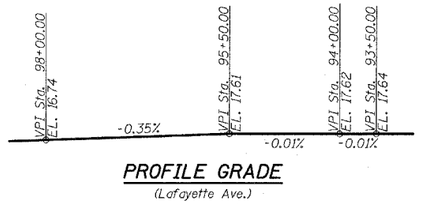
* Measured along Front Face of Wall.

TY·LIN INTERNATIONAL



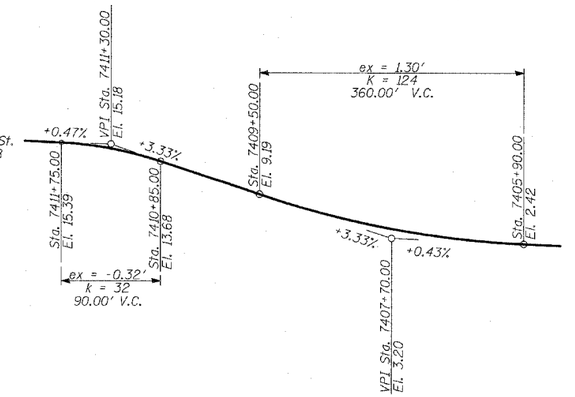
PROFILE GRADE

(S.B. I-94)



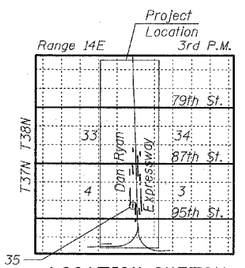
PROFILE GRADE

(Lafayette Ave.)



PROFILE GRADE

(Ramp)



LOCATION SKETCH

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	907	460
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

ITEM	UNIT	TOTAL
Slopewall Removal	SQ YD	43
Structure Excavation	CU YD	223
Concrete Structures	CU YD	110
Protective Coat	SQ YD	272
Rustication Finish	SQ FT	234
Furnishing and Erecting Structural Steel	POUND	2,770
Stud Shear Connectors	EACH	430
Untreated Timber Lagging	SQ FT	1,679
Furnishing Soldier Piles (Built-up Section)	FOOT	79
Furnishing Soldier Piles (W Section)	FOOT	1,676
Reinforcement Bars, Epoxy Coated	POUND	14,250
Slope Wall, 4"	SQ YD	11
Geocomposite Wall Drain	SQ YD	217
Pipe Underdrains for Structures, 6"	FOOT	358
Drilling and Setting Soldier Piles (in Soil)	CU FT	9,038
~~Chain Link Fence, 42" Attached to Structure (Special)~~	~~FOOT~~	~~358~~
Drilled Shaft in Soil 36"	FOOT	32

INDEX OF SHEETS

1. GENERAL PLAN
2. PLAN AND ELEVATION STA. 1216+88.25 TO STA. 1218+67.93
3. PLAN AND ELEVATION STA. 1218+67.93 TO STA. 1220+45.64
4. PILE LAYOUT, DETAILS & BILL OF MATERIAL
5. LIGHT TOWER 60IJ3 FOUNDATION DETAILS
6. LIGHT TOWER DETAILS
7. WALL CROSS SECTIONS & DETAILS
8. RUSTICATION DETAILS
9. ~~CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)~~
10. BORING LOGS SB35-01 & SB35-02
11. BORING LOG SB35-03
12. BORING LOGS SB35-04 & SB35-06
13. BORING LOG SB35-06

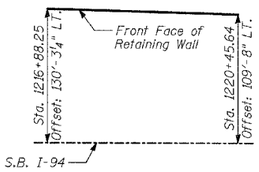
DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

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



OFFSET SKETCH

STATE OF ILLINOIS
PHILLIP D. FREY
081-004826
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Signed Phillip D. Frey
Phillip D. Frey, S.E. Il. Lic. No. 081-004826 Expires 11-30-2006.
For drawings 1 thru 13 of 13
Date 3/25/05

SHEET 1 OF 13

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
EXIT RAMP AT 93RD ST.
WALL 35 - GENERAL PLAN
STA. 1216+88.25 TO STA. 1220+45.64

S.N. 016-W947 DESIGNED BY: MI, MAF
SCALE: N.T.S. DRAWN BY: MAF, TB
DATE: MARCH 25, 2005 CHECKED BY: TD, MI

$FILES $TIME$ $DATE$