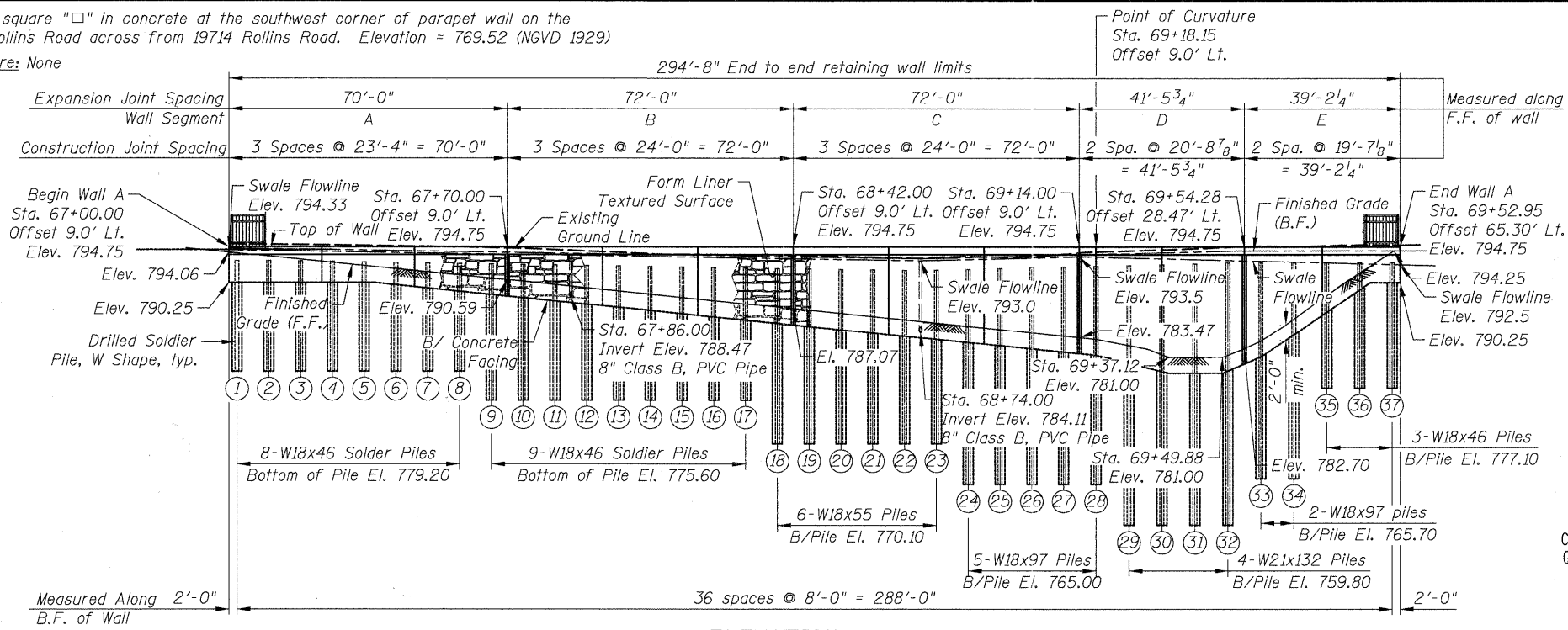
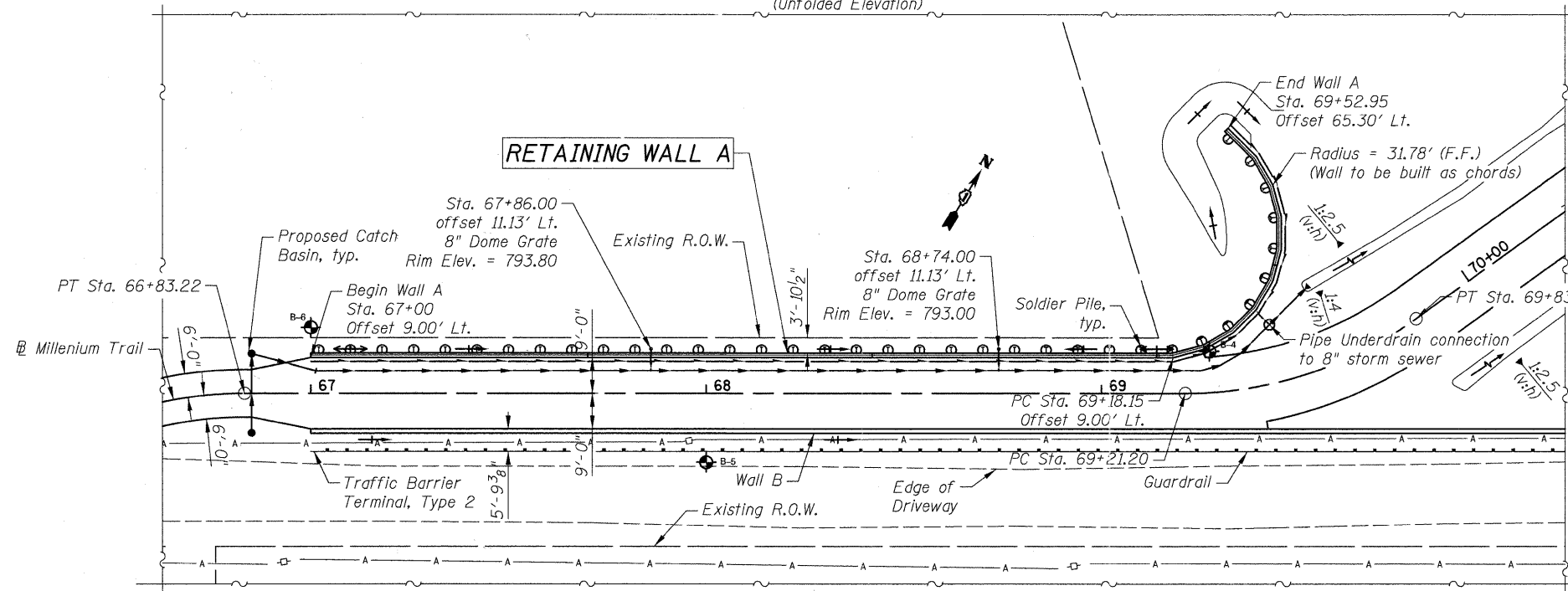


Benchmark: Cut square "□" in concrete at the southwest corner of parapet wall on the south side of Rollins Road across from 19714 Rollins Road. Elevation = 769.52 (NGVD 1929)

Existing Structure: None



ELEVATION
(Looking at F.F. of Wall)
(Unfolded Elevation)



PLAN

CURVE DATA
MILLENNIUM TRAIL

PI STA. = 69+53.43
 $\Delta = 35^\circ 43' 51''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 32.23'$
 $L = 62.36'$
 $E = 5.07'$
P.C. STA = 69+21.20
P.T. STA = 69+83.56

Notes:
Offsets are measured from Millennium Trail to the front face of the wall.
F.F. - Front Face
B.F. - Back Face

LEGEND

- Soil Borings
- Proposed Storm Sewer
- Proposed Pipe Underdrain

INDEX OF SHEETS

- WA1 General Plan & Elevation
- WA2 Wall A Elevations I
- WA3 Wall A Elevations II
- WA4 Wall A Details
- WA5 Wall A Soil Boring Logs

DESIGN SPECIFICATIONS

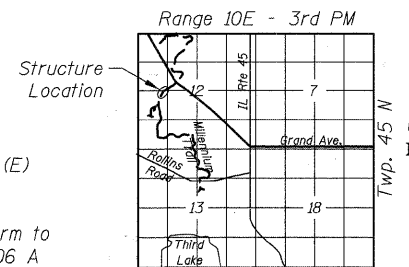
2002 AASHTO Standard Spec. for Highway Bridges

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Gr. 36 Soldier Piles)

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 A Gr 60.

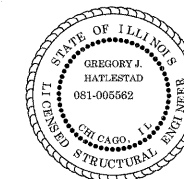


LOCATION SKETCH

SOLDIER PILE LOCATION & ELEVATIONS

Pile No.	☉ Pile Stations	☉ Pile Offset	Top of Pile Elevation
1	67+02.00	-10.88	792.60
2	67+10.00	-10.88	792.60
3	67+18.00	-10.88	792.60
4	67+26.00	-10.88	792.60
5	67+34.00	-10.88	792.60
6	67+42.00	-10.88	792.60
7	67+50.00	-10.88	792.60
8	67+58.00	-10.88	792.60
9	67+66.00	-10.88	792.10
10	67+74.00	-10.88	792.10
11	67+82.00	-10.88	792.10
12	67+90.00	-10.88	792.10
13	67+98.00	-10.88	792.10
14	68+06.00	-10.88	792.10
15	68+14.00	-10.88	792.10
16	68+22.00	-10.88	792.10
17	68+30.00	-10.88	792.10
18	68+38.00	-10.88	791.80
19	68+46.00	-10.88	791.80
20	68+54.00	-10.88	791.80
21	68+62.00	-10.88	791.80
22	68+70.00	-10.88	791.80
23	68+78.00	-10.88	791.80
24	68+86.00	-10.90	791.90
25	68+94.00	-10.90	791.90
26	69+02.00	-10.90	791.90
27	69+10.00	-10.90	791.90
28	69+17.89	-10.96	791.90
29	69+25.98	-13.00	792.40
30	69+34.21	-16.26	792.40
31	69+41.96	-20.75	792.40
32	69+48.99	-26.33	792.40
33	69+55.11	-32.79	792.80
34	69+59.43	-40.07	792.80
35	69+61.31	-47.79	793.10
36	69+59.17	-55.52	793.10
37	69+50.88	-62.66	793.10

CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.



G. Hatlestad
GREGORY J. HATLESTAD, S.E.
081-005562

EXP 11/30/2012

DATE 12/15/2011

I certify that to the best of my knowledge, information, and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL QUANTITY
Structure Excavation	Cu. Yd.	301
Concrete Structures	Cu. Yd.	112.8
Stud Shear Connectors	Each	302
Reinforcement Bars, Epoxy Coated	Pound	6,790
Geocomposite Wall Drain	Sq. Yd.	159
* Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	2,494
* Untreated Timber Lagging	Sq. Ft.	1,913
* Furnishing Soldier Piles (W Section)	Foot	753
* Pipe Underdrains for Structures 4"	Foot	318
* Ornamental Fence	Foot	293
* Staining Concrete Structures	Sq. Yd.	256
* Form Liner Textured Surface, Special	Sq. Ft.	2,303

* Indicates Special Provision

GENERAL PLAN & ELEVATION
WALL A; MILLENNIUM TRAIL

SEC. 10-F3000-00-BT
LAKE COUNTY

STA. 67+00.00 TO STA. 69+52.95

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DRAWN - D. ATKINS
DESIGNED - M. LANGE
CHECKED - G. HATLESTAD
DATE - DECEMBER 19, 2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
WALL A; MILLENNIUM TRAIL

SHEET NO. WA1 OF WA5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0541	10-F3000-00-BT	LAKE	91	37

CONTRACT NO. ILLINOIS FED. AID PROJECT