

INDEX OF SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF CHICAGO

DAN RYAN EXPRESSWAY:	ADT (2010)	DESIGN SPEED	POSTED SPEED
NB I-94 (DAN RYAN)	151,800	60 MPH	55 MPH
NB 95TH STREET ENTRANCE RAMP	10,500	45 MPH	40 MPH
NB 87TH STREET EXIT RAMP	11,600	45 MPH	40 MPH
NB 87TH STREET ENTRANCE RAMP	14,300	45 MPH	40 MPH
NB 79TH STREET C-D ENTRANCE RAMP	9,000	45 MPH	40 MPH
NB 76TH STREET C-D EXIT RAMP	7,200	45 MPH	40 MPH
NB 75TH STREET C-D ENTRANCE RAMP	11,300	45 MPH	40 MPH
NB 71ST STREET C-D EXIT RAMP	6,600	45 MPH	40 MPH

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

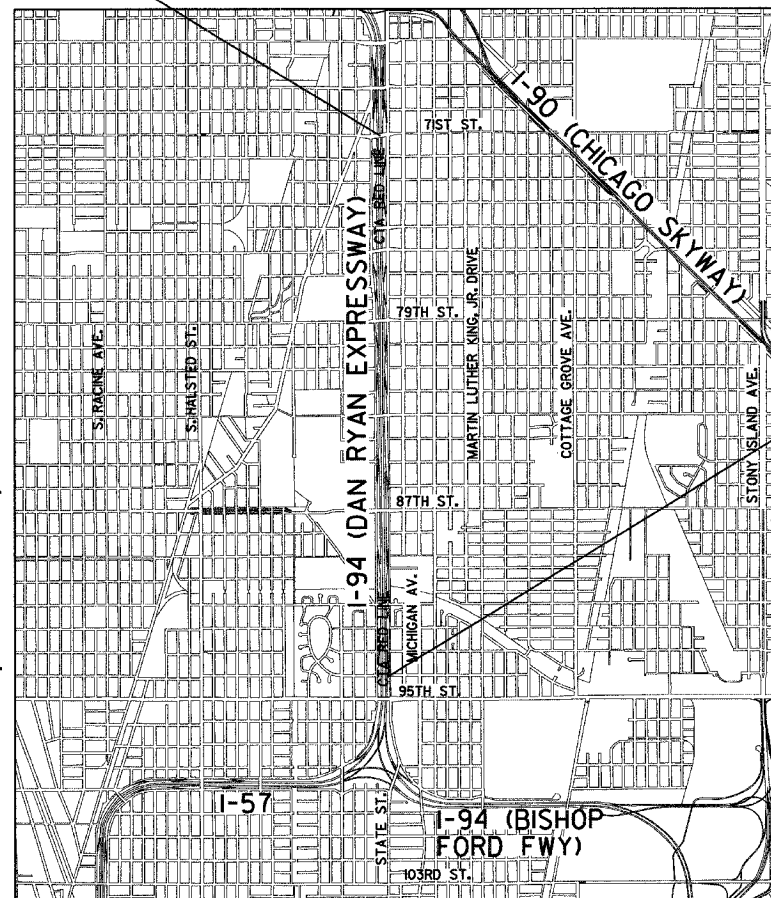
**F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)
SECTION (1516.1, 1717 & 1818) I-3
71ST STREET TO 95TH STREET (NB RAMPS, C-D'S, AND RETAINING WALLS)
FENCING ON NB RETAINING WALLS
PROJECT: IM-094-3 (396)060**

**COOK COUNTY
C-91-168-05
R. 14 E.**

F.A.I. 94 (RYAN) PROJECT LIMIT
STA. 2355 + 21.18 (NB I-94)

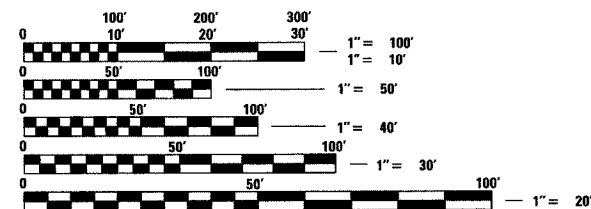
F.A.I. 94 (RYAN) PROJECT LIMIT
STA. 2210 + 42.42 (NB I-94)

LAKE, HYDE PARK, AND CALUMET TOWNSHIPS



LOCATION MAP

GROSS LENGTH OF PROJECT = 14478.76 FT. = 2.742 MI.
NET LENGTH OF PROJECT = 14478.76 FT. = 2.742 MI.
MAP SCALE: 1" = 1/2 MILE



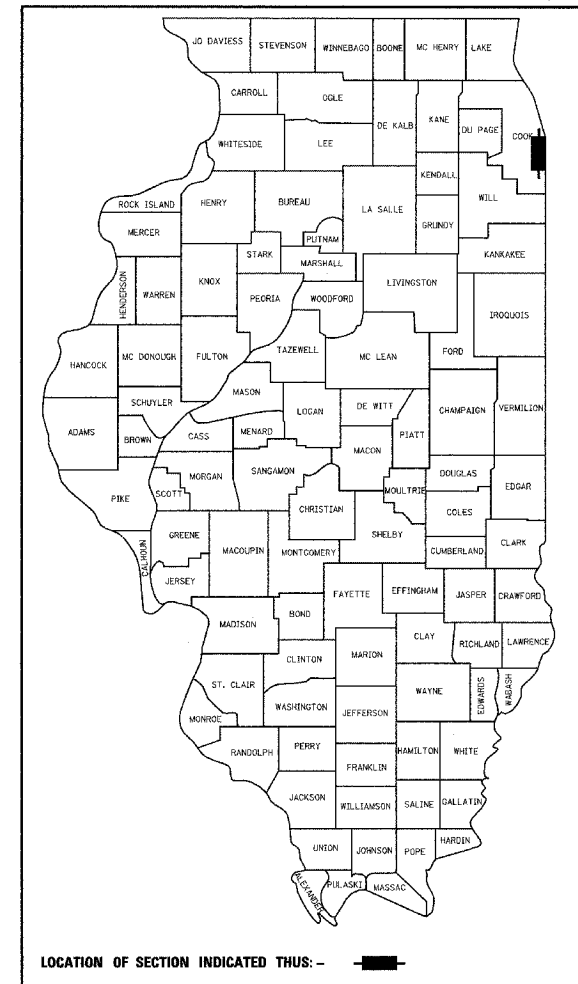
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES; REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

DIGGER:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

CTA CONTACT:
MARVIN A. WATSON,
GENERAL MANAGER, CONSTRUCTION
(312) 681-3860

CONTRACT NO. 62932

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-421-01 • (1516.1, 1717 & 1818) I-3 62932				



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 8, 2005
Dean O'Keefe, P.E. DISTRICT ENGINEER
May 13, 2005
Mike Hine ENGINEER OF DESIGN AND ENVIRONMENT
May 13, 2005
Victor Maden DIRECTOR, DIVISION OF HIGHWAYS

CONTRACT 171



Signed Dean A. Klesling
Dean A. Klesling, P.E., ILL. No. 32957
Expires 11-30-2005
Date April 11, 2005

TYLINT INTERNATIONAL
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	2
STA. 2210+00.00		TO STA. 2356+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(1516.1, 1717 & 1818) I-3		62932		

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON IDOT PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
3. NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
4. 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)
5. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
7. THIS CONTRACT INCLUDES THE INSTALLATION OF FENCE ON RETAINING WALLS. THE PROPOSED RETAINING WALLS ARE CONSTRUCTED IN CONTRACT 62694 AND ARE SHOWN FOR INFORMATION ONLY.

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, SUMMARY OF QUANTITIES & INDEX OF STATE STANDARDS
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4	SUGGESTED CONSTRUCTION SEQUENCE FOR NB RAMP - SHEET 2 OF 2
5	LOCATION PLAN
6	WALL 1 - GENERAL PLAN
7	WALL 6 - GENERAL PLAN
8	WALL 6 - CHAIN LINK GATES (SPECIAL)
9	WALLS 1 & 6 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
10	WALL 2A - GENERAL PLAN
11	WALL 5 - GENERAL PLAN
12	WALL 5 - GENERAL PLAN
13	WALL 7 - GENERAL PLAN
14	WALLS 2A, 5 & 7 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
15	WALL 2B - GENERAL PLAN
16	WALL 2B - GENERAL PLAN
17	WALL AIS 1 - GENERAL PLAN
18	WALL 70 - GENERAL PLAN
19	WALL 70 - GENERAL PLAN
20	WALL AIS 2 - GENERAL PLAN
21	WALLS 2B, AIS 1, 70 & AIS 2 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
22	WALL 3 - GENERAL PLAN
23	WALL 4 - GENERAL PLAN
24	WALLS 3 & 4 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
25	WALL 69 - GENERAL PLAN
26	WALL 69 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
27	WALL 69 - CHAIN LINK GATES (SPECIAL)
28	WALLS 2B, AIS 1, 6, 69, 70 & AIS 2 - GATE PLAN AND NOTES
29	WALLS 2B, AIS 1, 6, 69, 70 & AIS 2 - GATE ELEVATIONS
30	WALLS 2B & 6 - GATE SECTIONS
31	WALLS 2B & 6 - GATE SECTIONS AND DETAILS
32	WALLS AIS 1, 69, 70 & AIS 2 - GATE SECTIONS
33	WALLS AIS 1, 69, 70 & AIS 2 - GATE SECTIONS AND DETAILS
34	TC-8 DIST 1, FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
35	TC-17 DIST 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
36	TC-18 DIST 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
37	TC-22 DIST 1, TEMPORARY INFORMATION SIGNING

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL	URBAN
				90% FEDERAL, 10% STATE
				DAN RYAN - SFTY-4A
66410700	CHAIN LINK GATES (SPECIAL)	EACH	2	2
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	100	100
X6640050	CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)	FOOT	7872	7872
X6640500	CHAIN LINK GATE ASSEMBLY (SPECIAL)	EACH	10	10
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	12	12
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

INDEX OF STATE STANDARDS

STANDARD NO.	TITLE
664001-01	CHAIN LINK FENCE
701411-03	LANE CLOSURE MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701601-04	URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES

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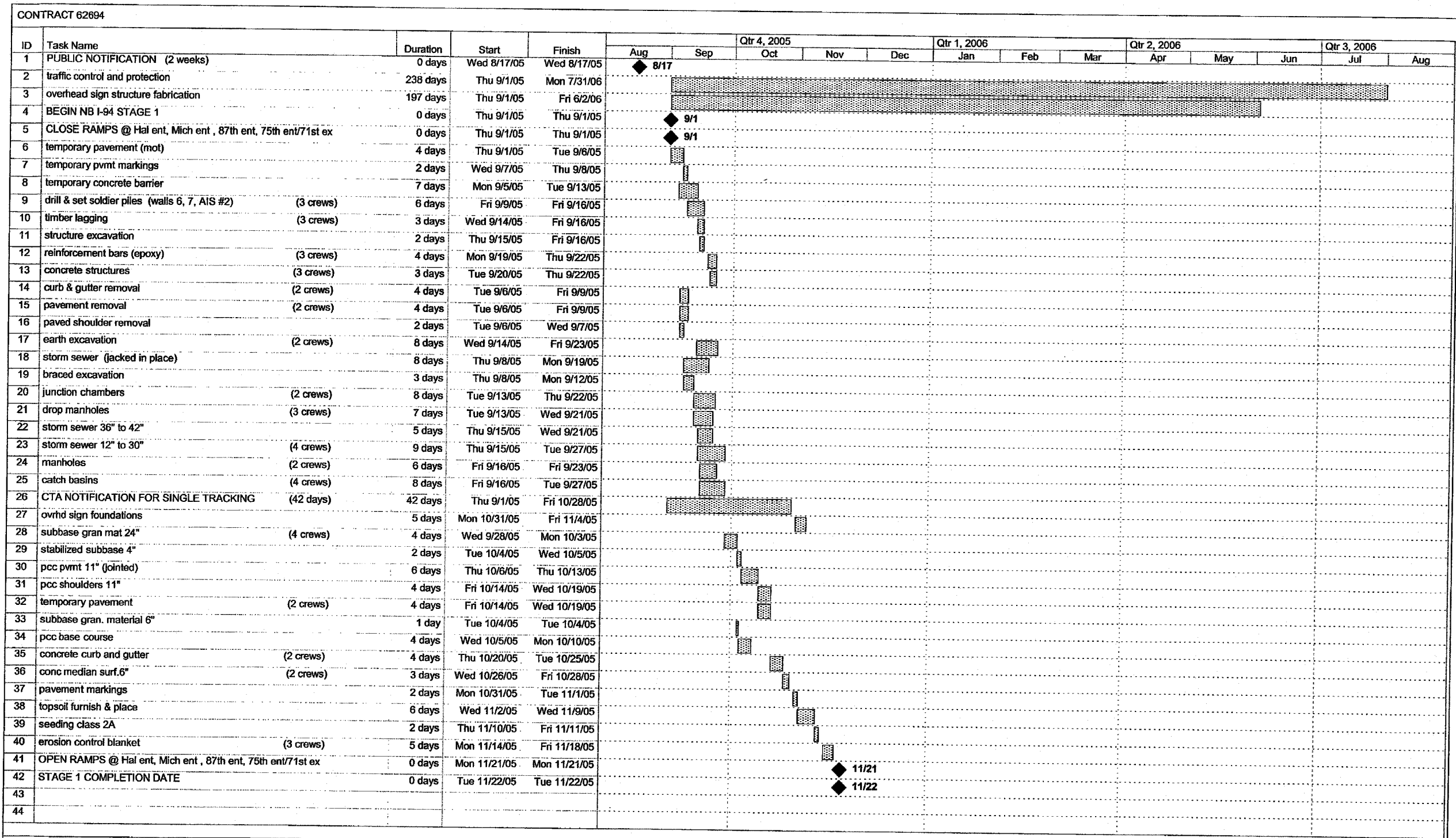
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

**GENERAL NOTES, INDEX OF SHEETS,
SUMMARY OF QUANTITIES &
INDEX OF STATE STANDARDS**

SCALE: NONE DRAWN BY: TB
DATE: APRIL 15, 2005 CHECKED BY: TGB

04/14/2005 10:06:42 AM



Project: 17A construction schedule
Date: Thu 3/17/05

Task: [Pattern] Progress [Bar] Summary [Bar] External Tasks [Bar] Deadline [Arrow]

Split: [Dotted] Milestone [Diamond] Project Summary [Bar] External Milestone [Diamond]

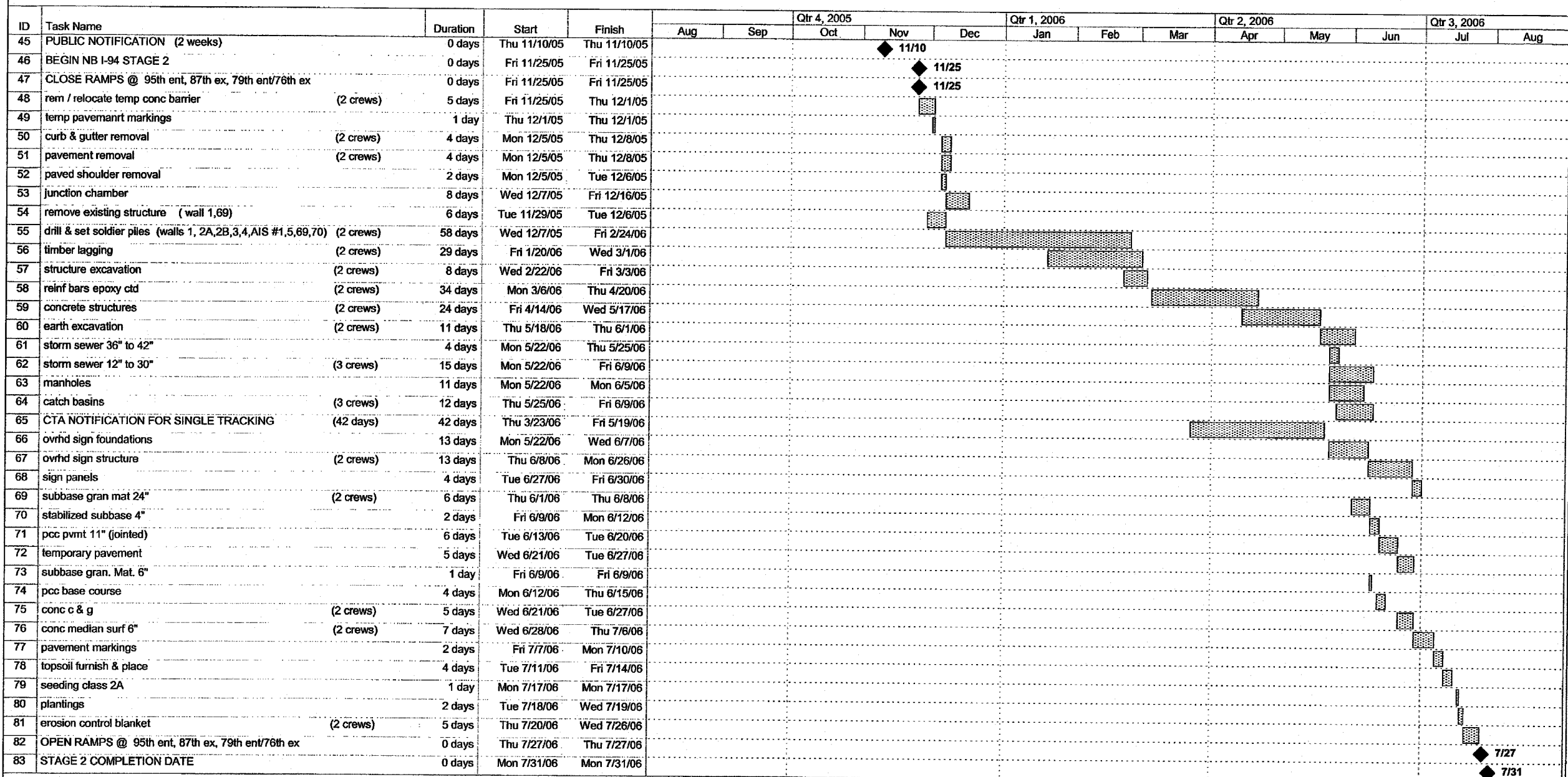
Page 1

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

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CONTRACT 62694



Project: 17A construction schedule
Date: Thu 3/17/05

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Split: [Pattern] Milestone

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Project Summary: [Pattern] Project Summary

External Tasks: [Pattern] External Tasks
External Milestone: [Pattern] External Milestone

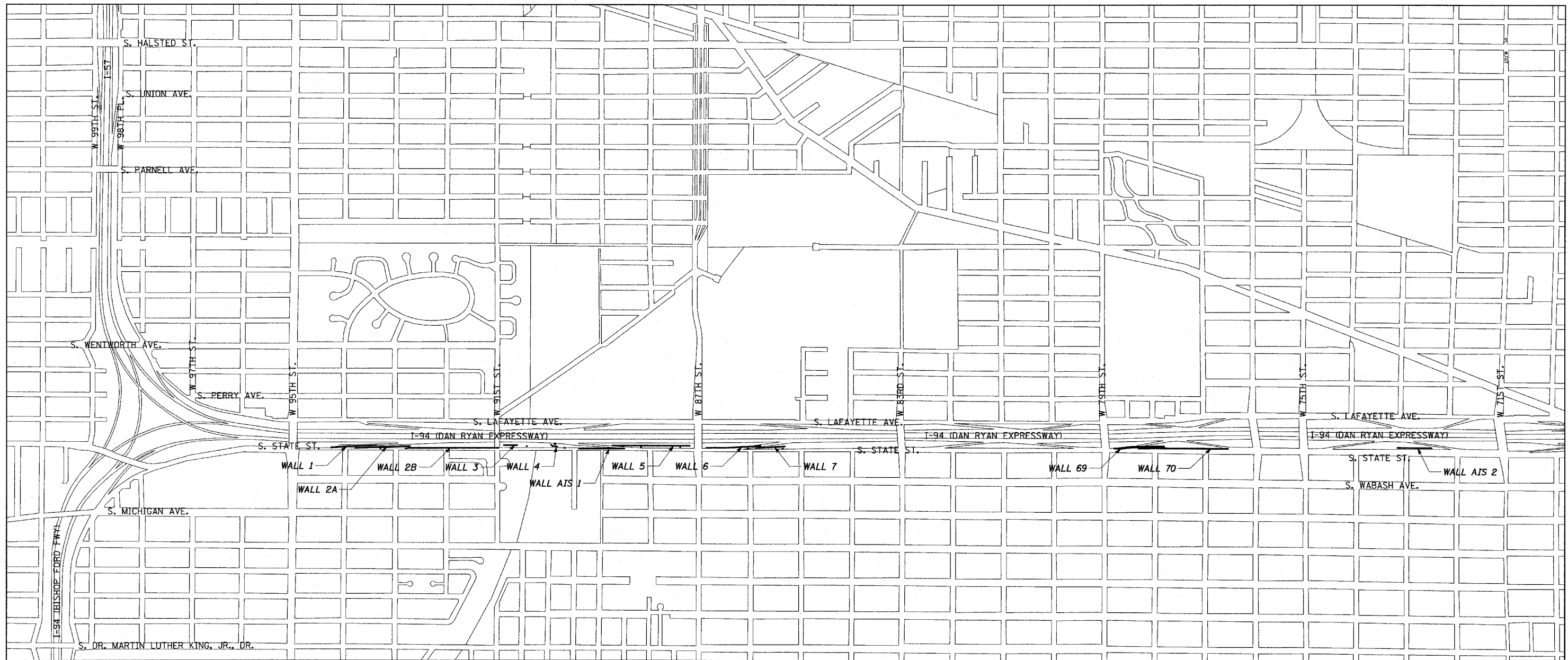
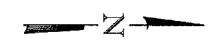
Deadline: [Pattern] Deadline

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	5
STA. 2210+00.00		TO STA. 2356+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (1516.1, 1717 & 1818) I-3		62932		



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REVISIONS	
NAME	DATE

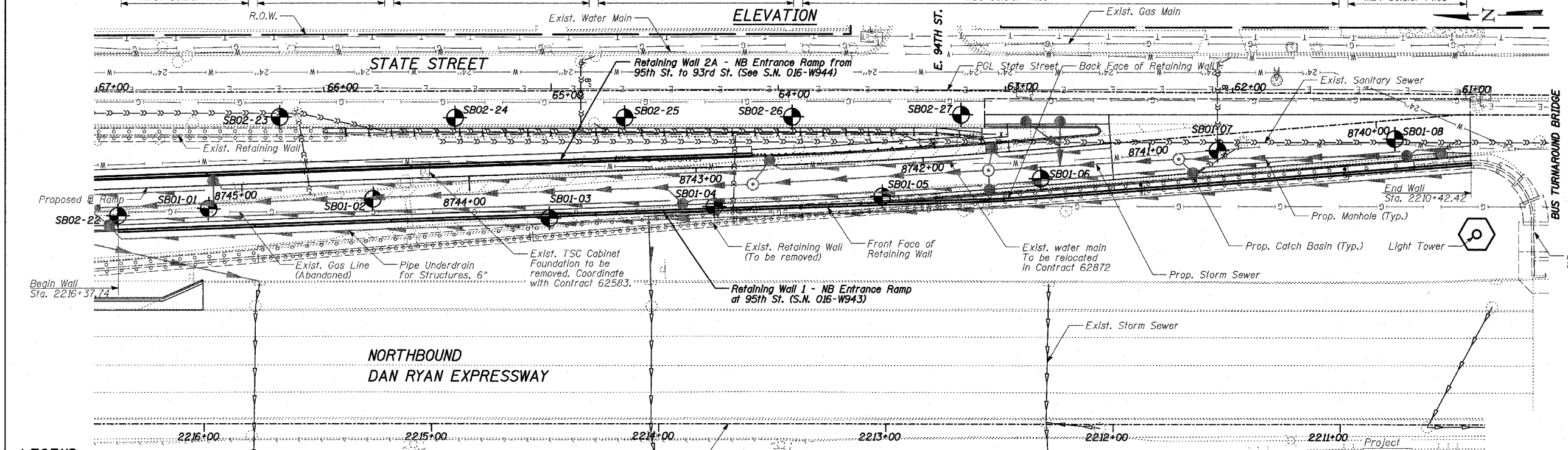
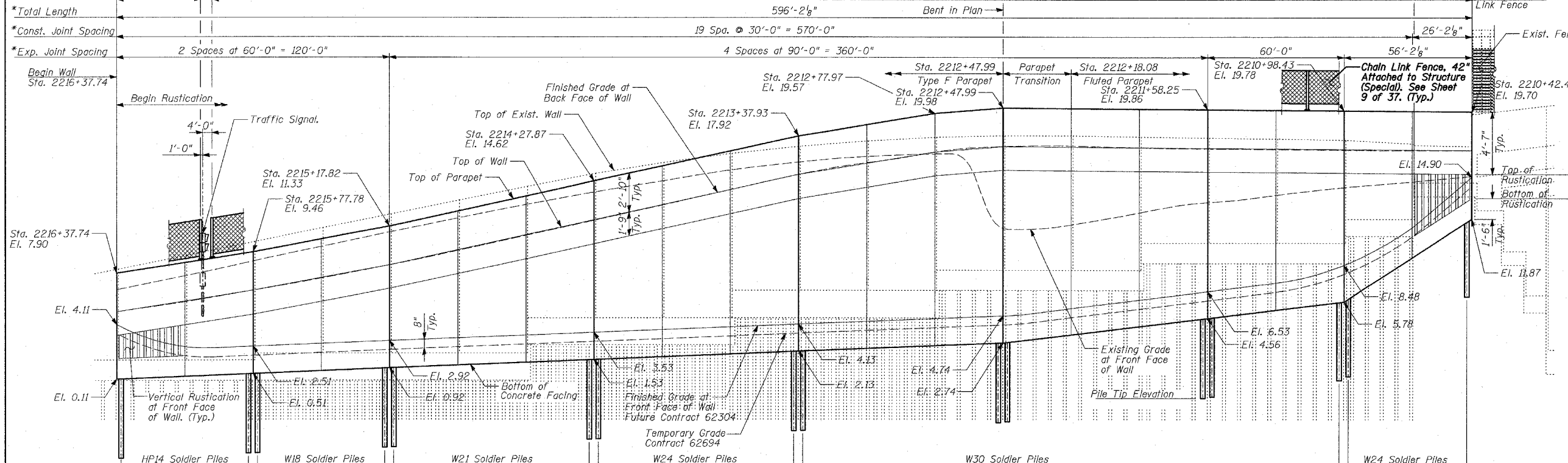
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
LOCATION PLAN
NB RETAINING WALLS
 SCALE: NOT TO SCALE DRAWN BY: TB
 DATE: APRIL 15, 2005 CHECKED BY: TGB

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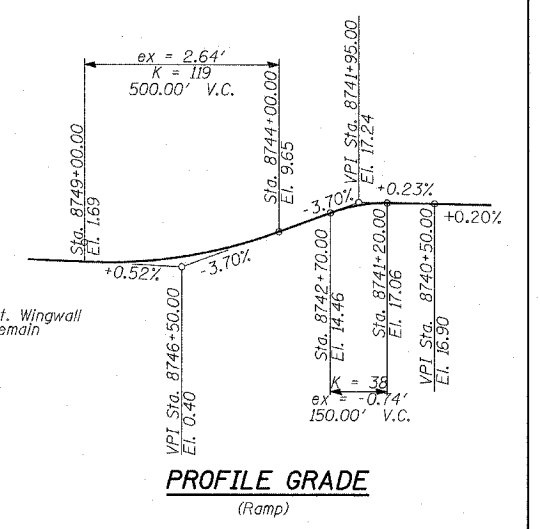
Benchmark: BM 3522 Set "A" on south southeast flange bolt of hydrant ± halfway between north and south entrance to Cigo, east side of State St. and north of 95th St. El. 18.06

Existing Structure: Reinforced concrete cantilever retaining wall, supported on concrete pile footings, along the Northbound Dan Ryan entrance ramp at 91st Street. Built in 1960. Total length ±630'-8"

Salvage: None. 36'-11"



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	6
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (1516.1, 1717 & 1818) I-3		62932		



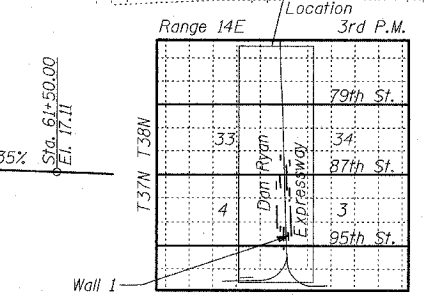
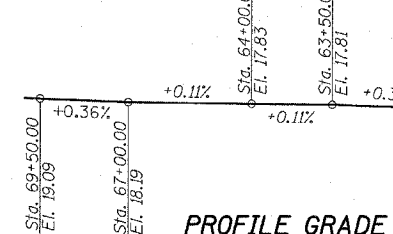
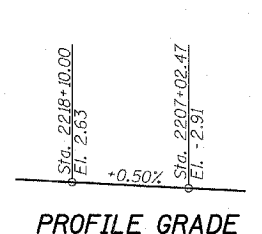
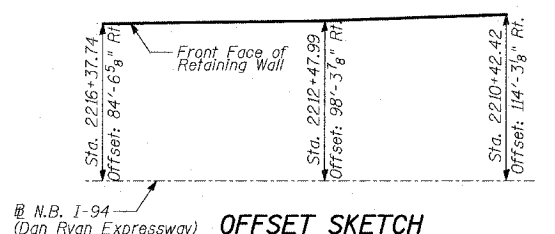
LEGEND

• Borings Location

* Measured along Front Face of Wall.

DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 35,000 psi (M270 Grade 36) Solder Piles



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP AT 95TH ST.
WALL 1 - GENERAL PLAN
STA. 2216+37.74 TO STA. 2210+42.42
S.N. 016-W943
SCALE: N.T.S.
DATE: APRIL 15, 2005

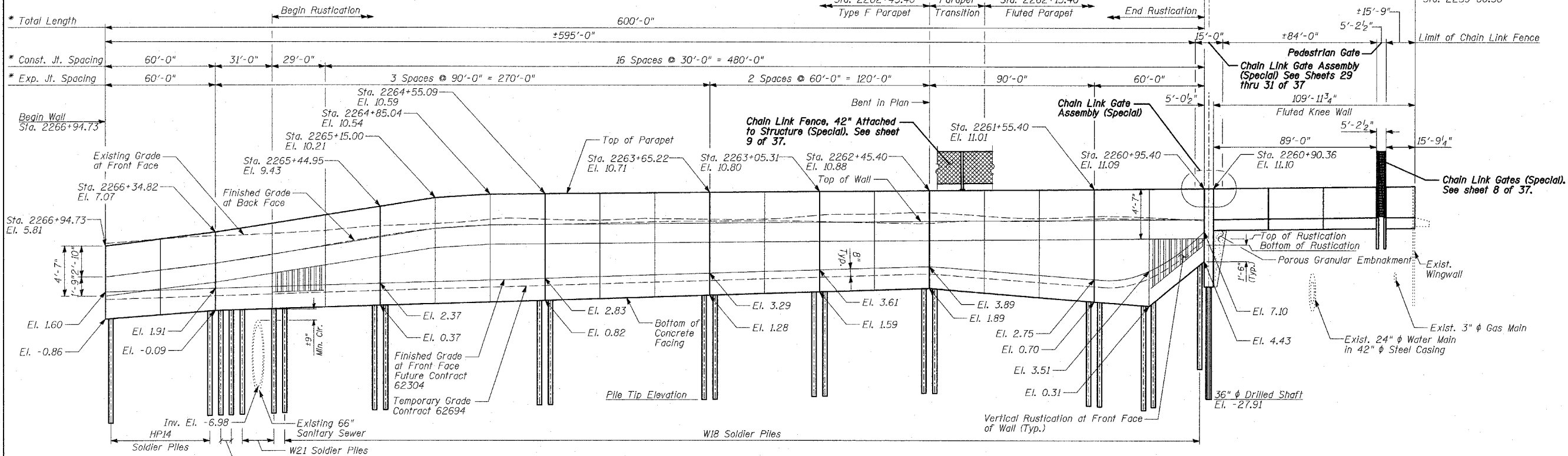
DESIGNED BY: MI, MAF
DRAWN BY: MAF, TB
CHECKED BY: TD, MI

TYLIN INTERNATIONAL

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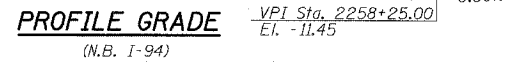
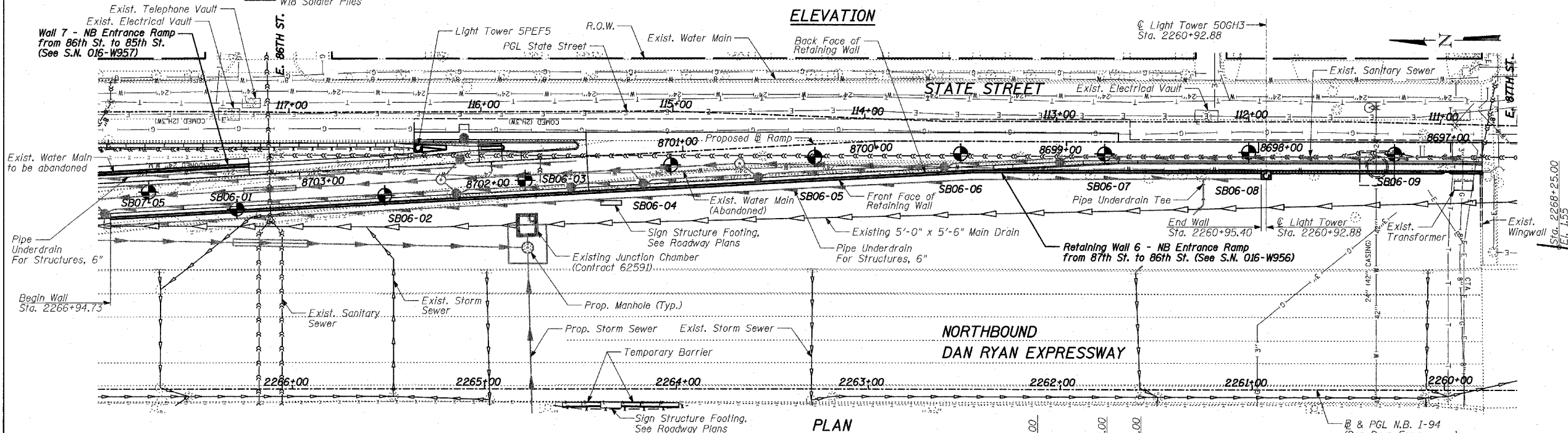
Benchmarks: BM 3553 Set "+" northwest bolt of traffic signal/light base at northeast intersection of 87th St. and State St. El. 8.47
 Existing Structure: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	7
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
(1516.1, 1717 & 1818) I-3			62932	



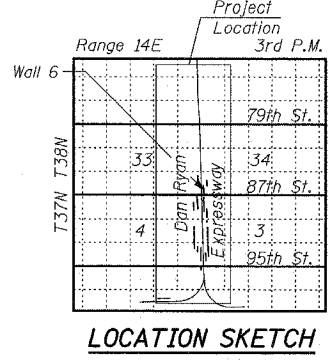
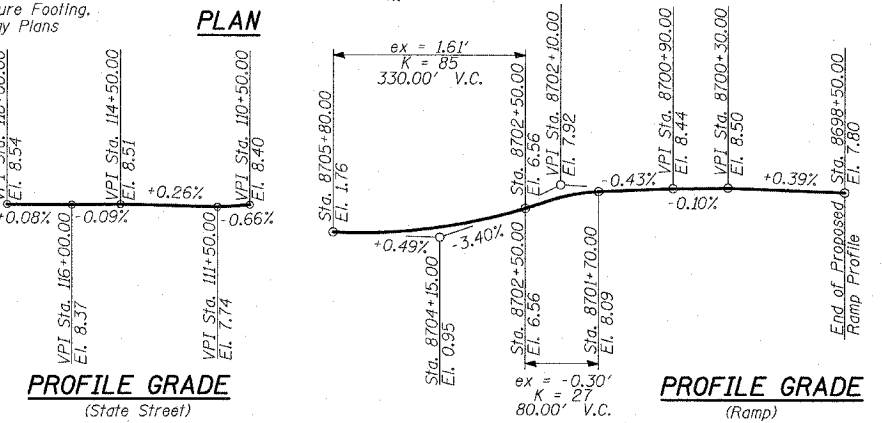
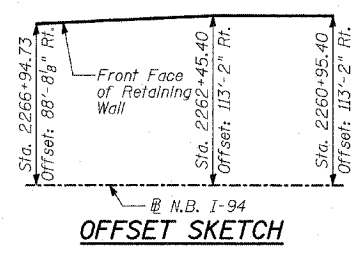
DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Solder Piles



LEGEND
 Boring Location
 * Measured along Front Face of Wall.

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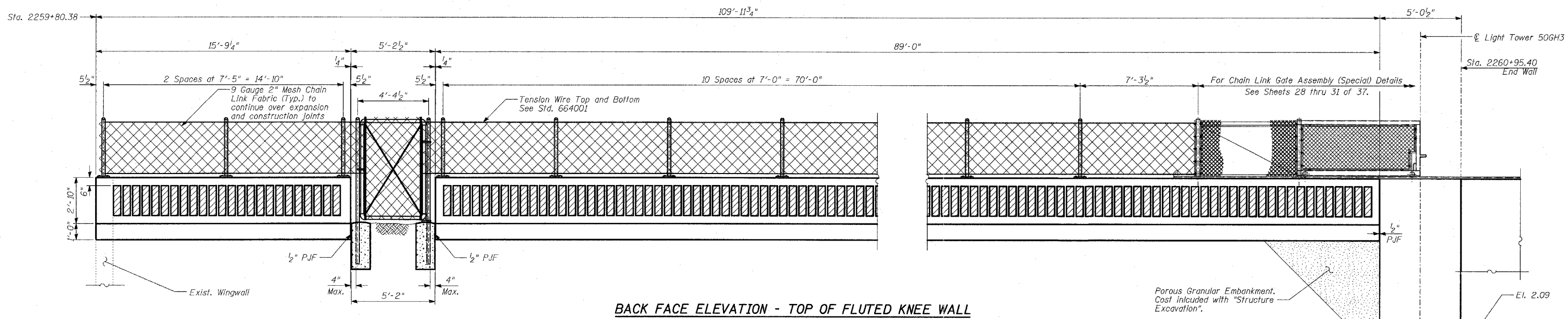


REVISIONS	
NAME	DATE

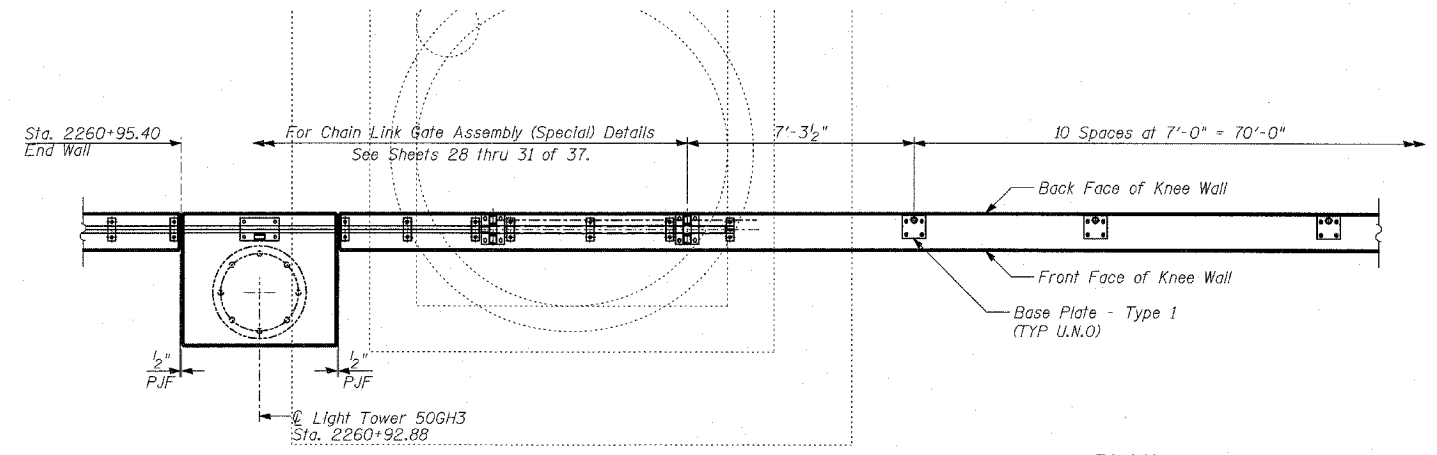
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP FROM 87TH ST. TO 86TH ST.
WALL 6 - GENERAL PLAN
 STA. 2266+94.73 TO STA. 2260+95.40
 S.N. 016-W956
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, MAF
 DRAWN BY: MAF, DJR
 CHECKED BY: TD, MI

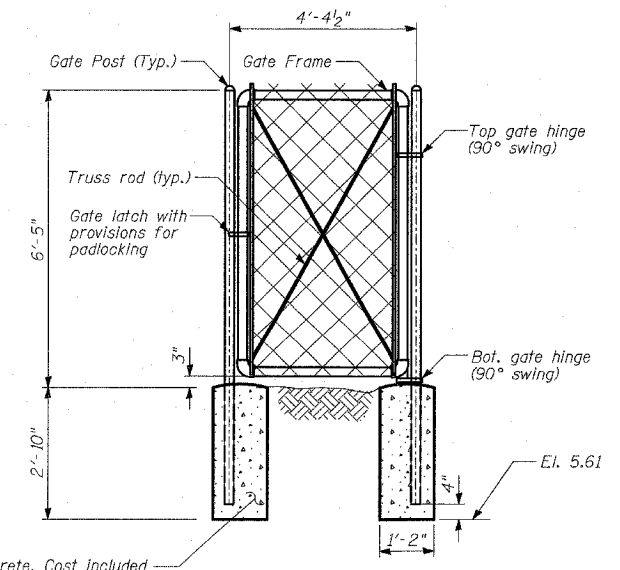
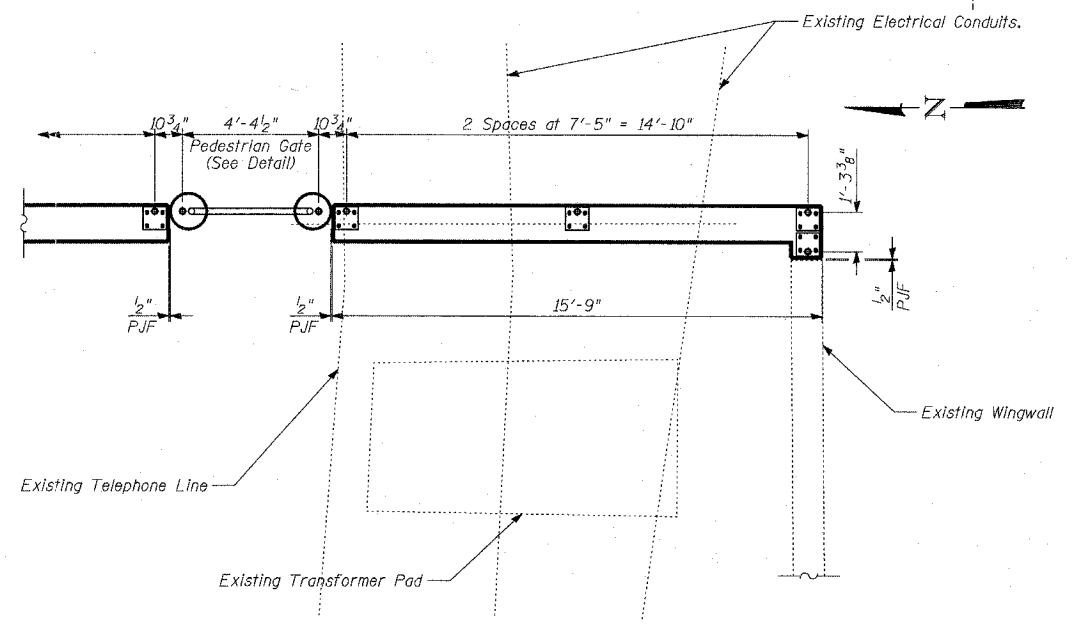
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BACK FACE ELEVATION - TOP OF FLUTED KNEE WALL



PLAN



PEDESTRIAN GATE

LEGEND:
U.N.O. - Denotes Unless Noted Otherwise

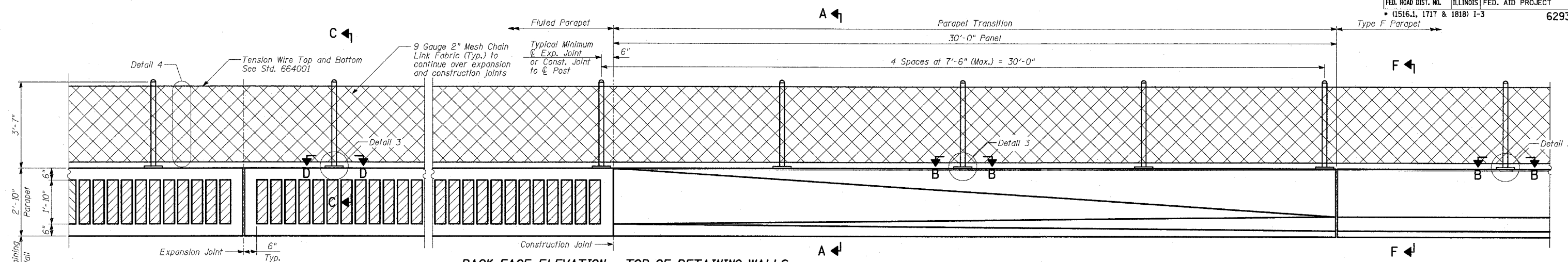
NOTES:
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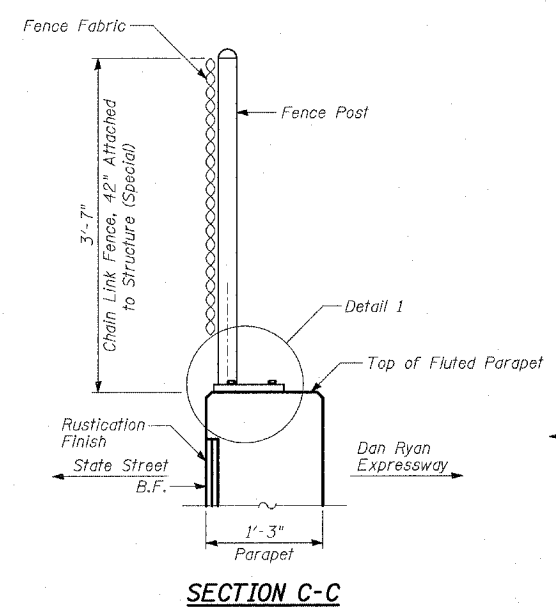
WALL	ITEM	UNIT	TOTAL
6	Chain Link Gates (Special)	Each	1

REVISIONS	
NAME	DATE

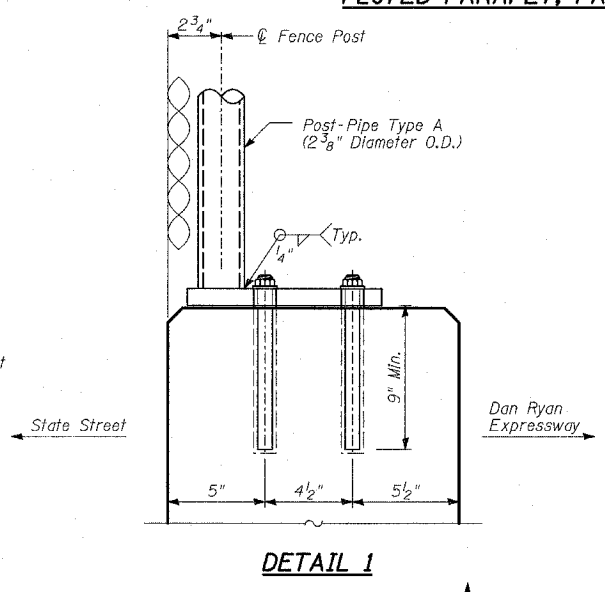
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP FROM 87TH ST.
WALL 6 - CHAIN LINK GATES (SPECIAL)
DESIGNED BY: MI, MAF
SCALE: N.T.S.
DATE: APRIL 15, 2005
DRAWN BY: MAF, DJR
CHECKED BY: TD, MI



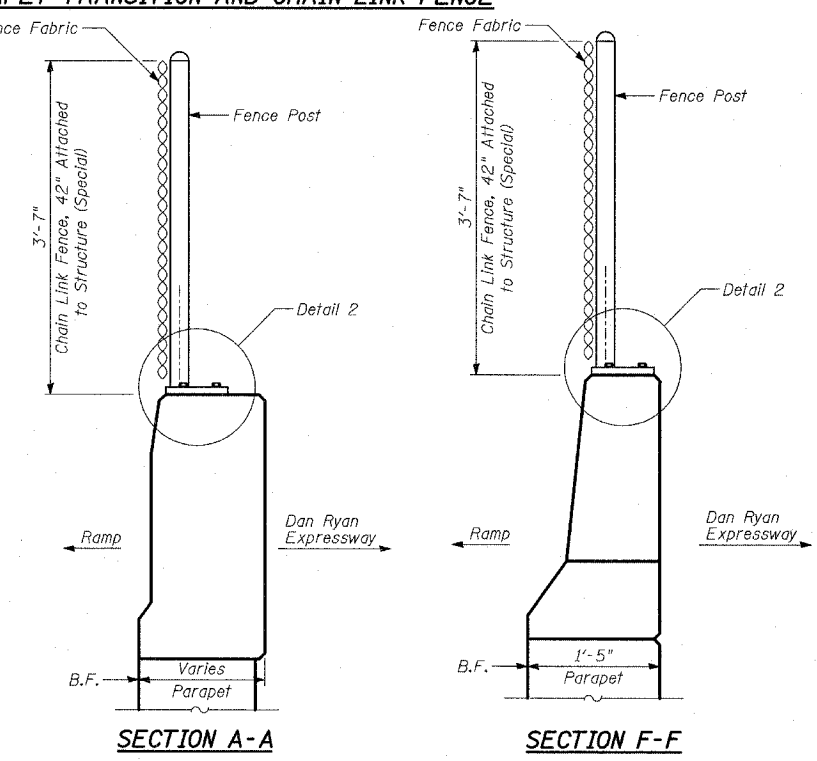
**BACK FACE ELEVATION - TOP OF RETAINING WALLS
FLUTED PARAPET, PARAPET TRANSITION AND CHAIN LINK FENCE**



SECTION C-C

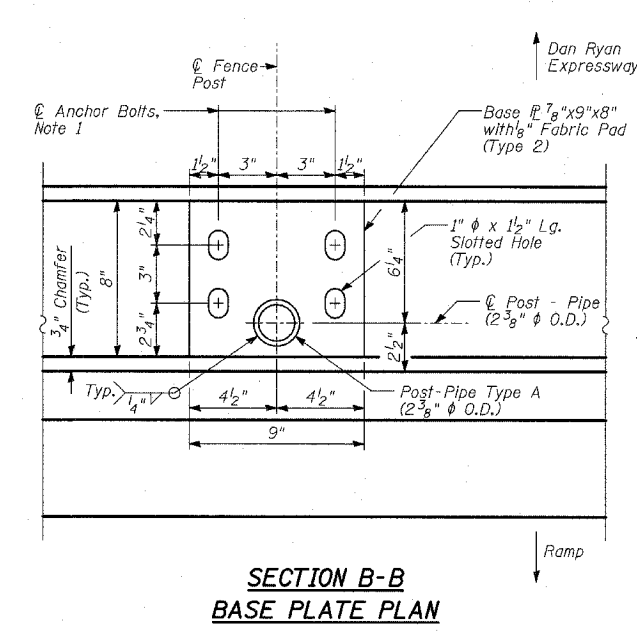


DETAIL 1

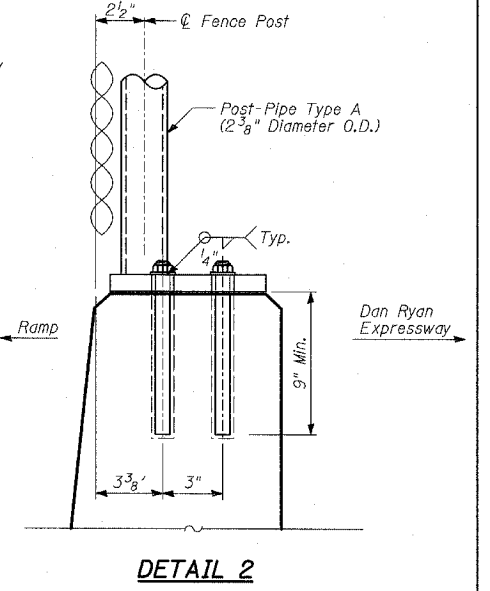


SECTION A-A

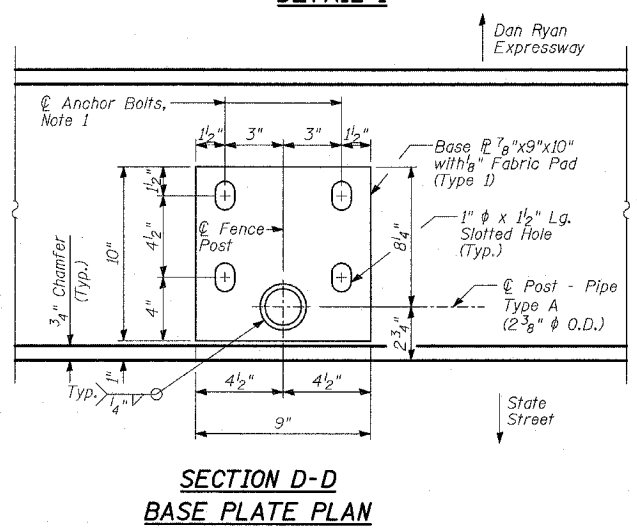
SECTION F-F



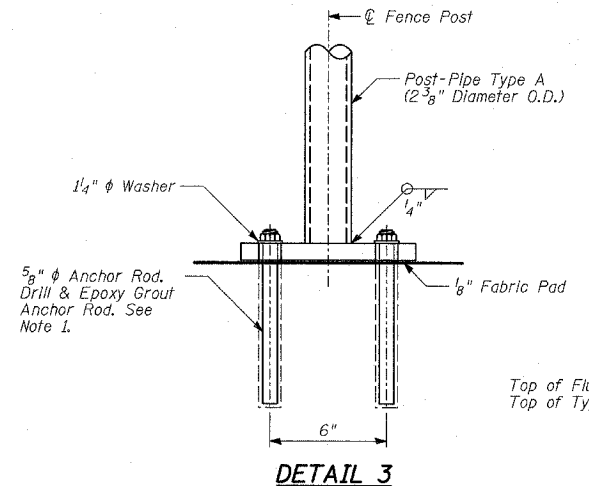
**SECTION B-B
BASE PLATE PLAN**



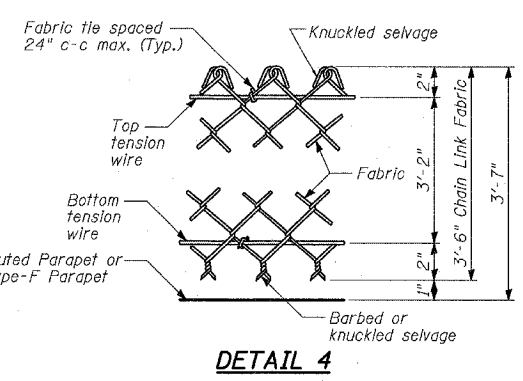
DETAIL 2



**SECTION D-D
BASE PLATE PLAN**



DETAIL 3



DETAIL 4

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

BILL OF MATERIAL

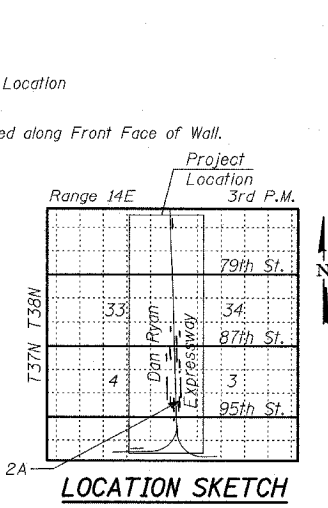
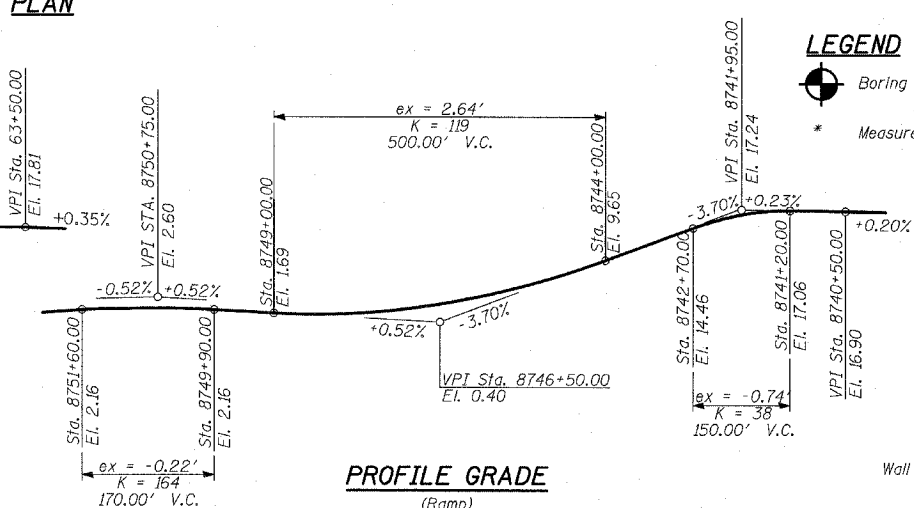
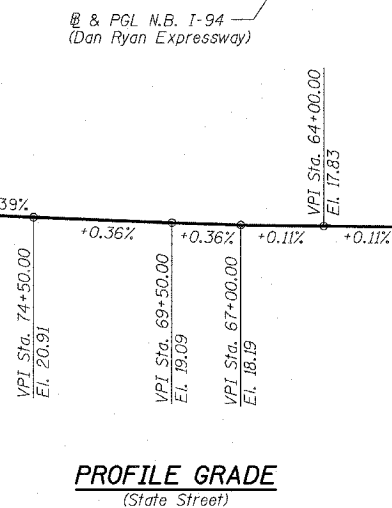
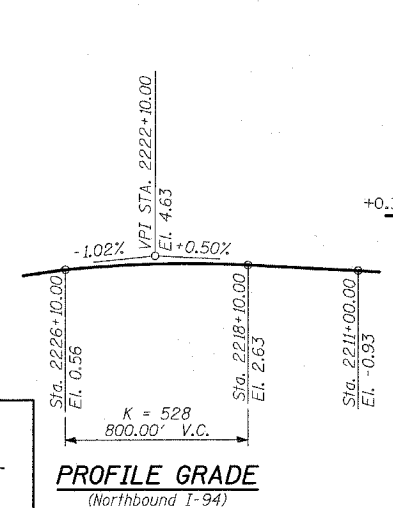
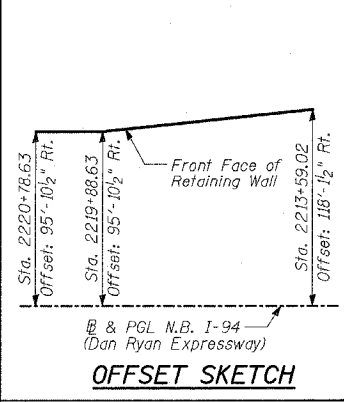
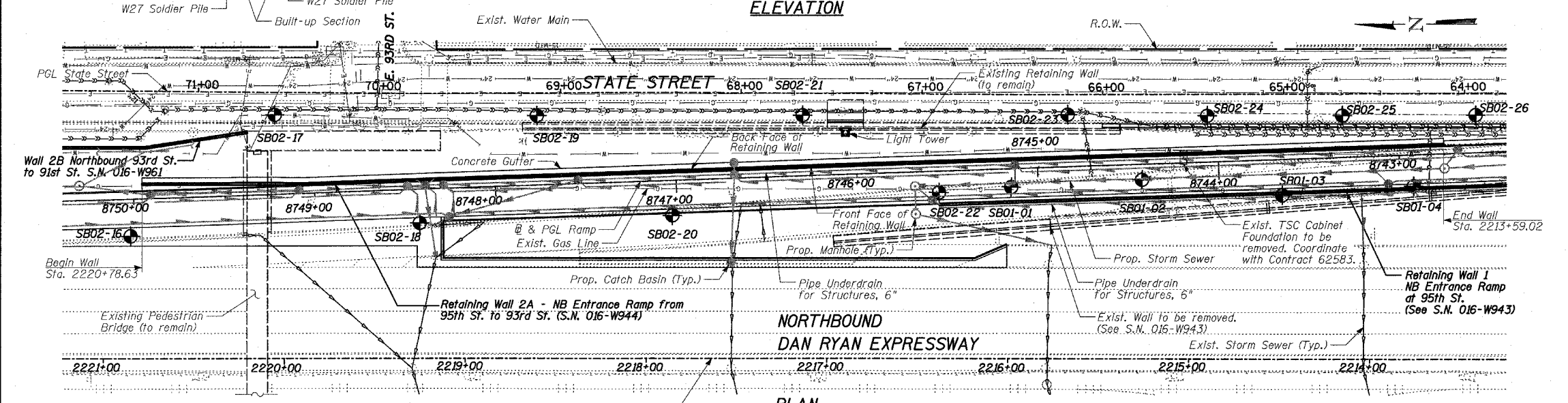
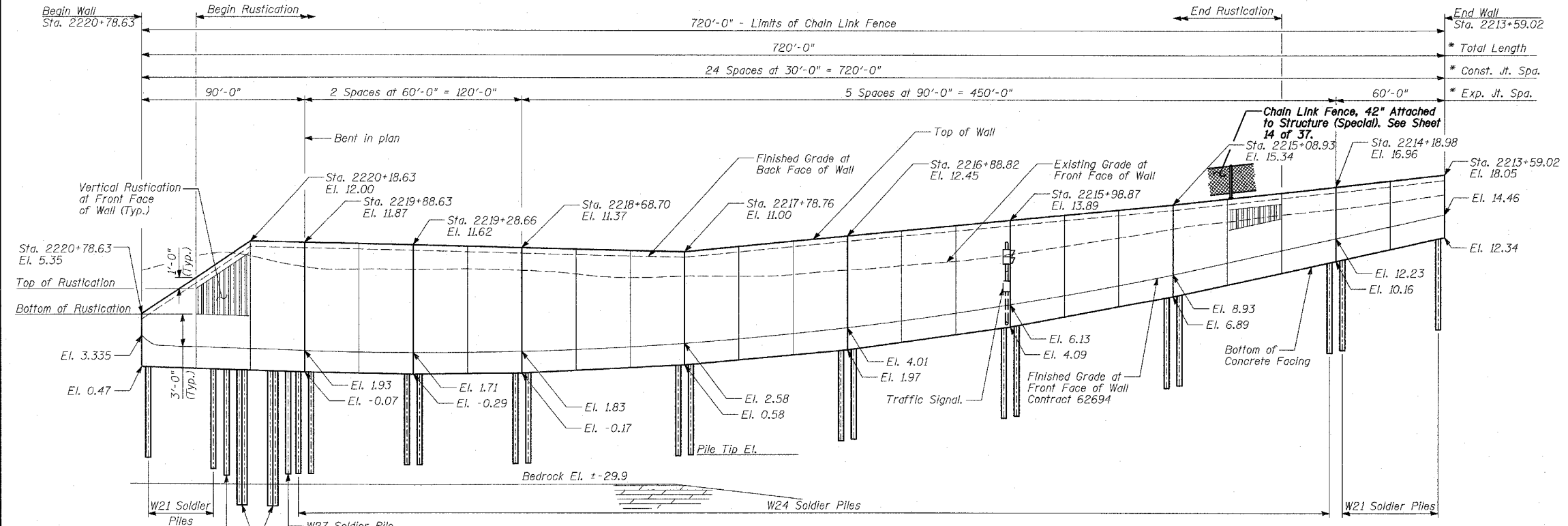
WALL	ITEM	UNIT	TOTAL
1	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	592
6	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	695
	Total	FOOT	1287

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP AT 95TH ST.
 WALLS 1 & 6 - CHAIN LINK FENCE, 42"
 ATTACHED TO STRUCTURE (SPECIAL)**
 DESIGNED BY: MI, MAF
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DRAWN BY: MAF, TB
 CHECKED BY: TD, MI

Benchmarks: BM 3522 Set "+" on south southeast flange bolt of hydrant ± halfway between north and south entrance to City, east side of State St. and north of 95th St. El. 18.06
 Existing Structure: None

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	10
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* (1516.1, 1717 & 1818) I-3			62932	



LEGEND

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

DESIGN STRESSES

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

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP FROM 95TH ST. TO 93RD ST.
 WALL 2A - GENERAL PLAN
 STA. 2220+78.63 TO STA. 2213+59.02
 S.N. 016-W944
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

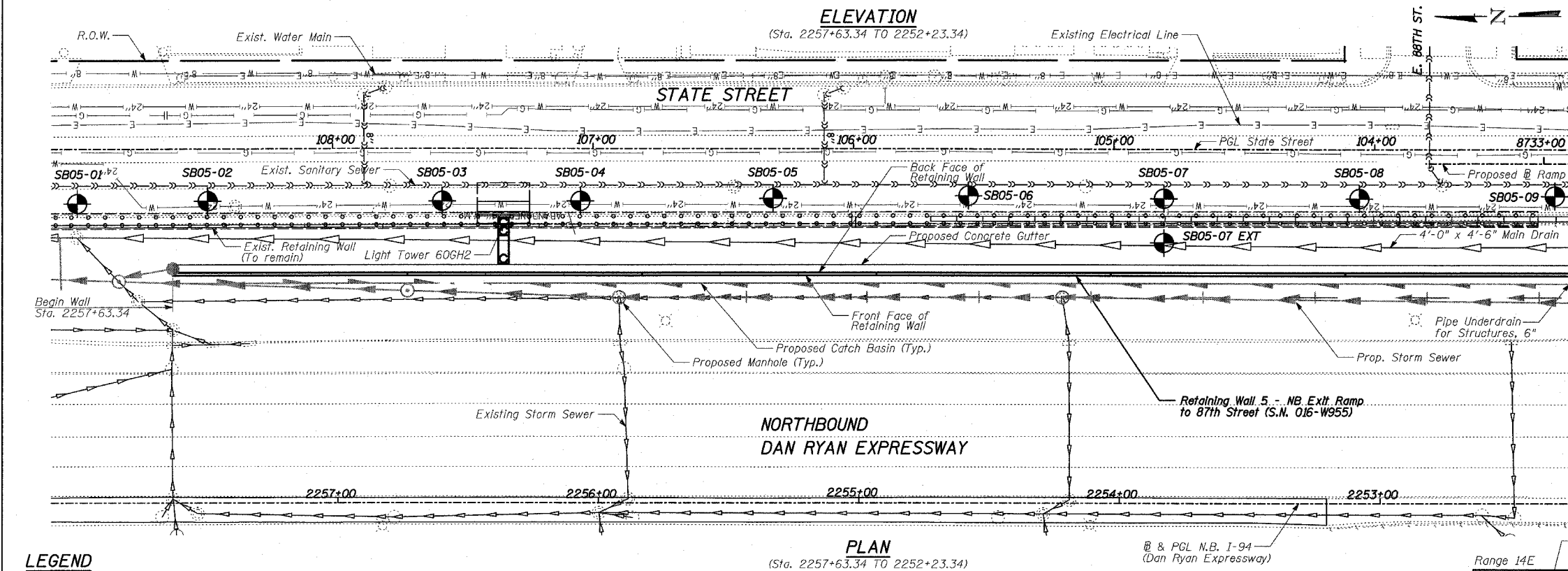
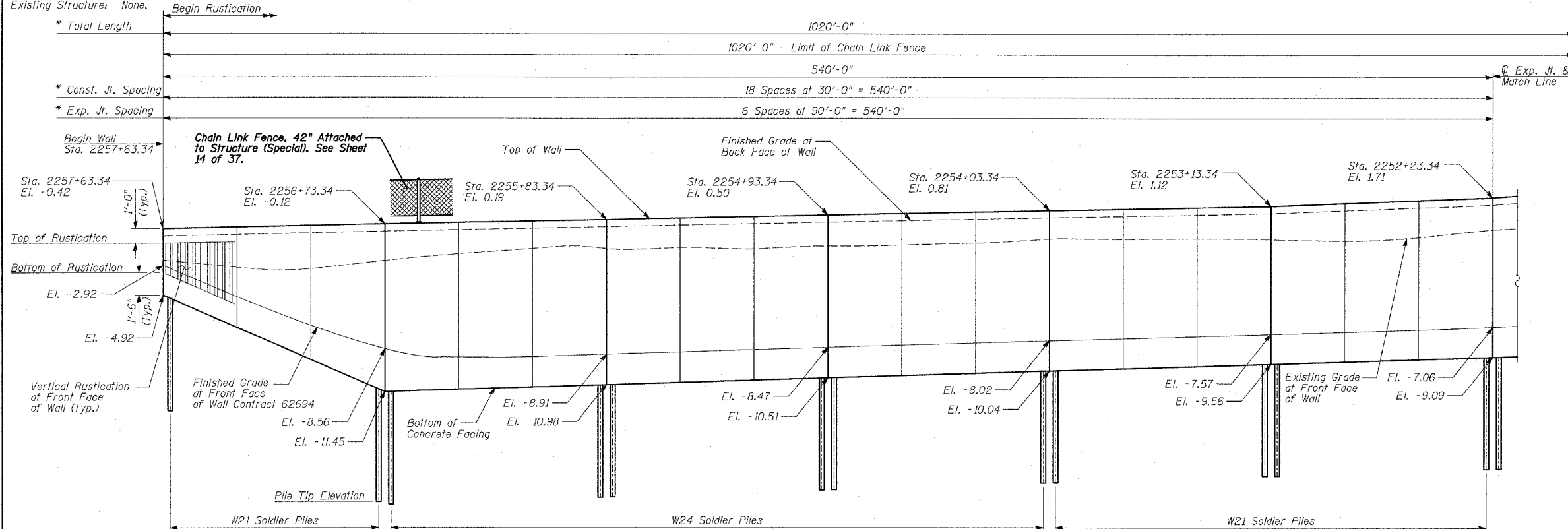
DESIGNED BY: MI, DJR
 DRAWN BY: DJR, MAF
 CHECKED BY: TD, MI

TYLIN INTERNATIONAL

PA:02373; road; civil; bridge; 11/11/05; 07:29:40 AM

Benchmarks: BM 3553 Set "+" northwest bolt of traffic signal/light base at northeast intersection of 87th St. and State St. El. 8.47

Existing Structure: None.



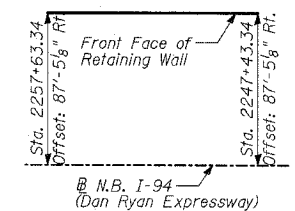
LEGEND
 ● Boring Location
 * Measured along Front Face of Wall.

TYLIN INTERNATIONAL

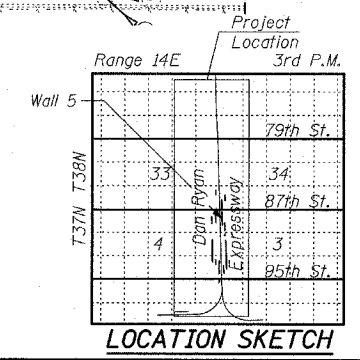
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94		COOK	37	11
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
(1516.1, 1717 & 1818) I-3		62932		

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



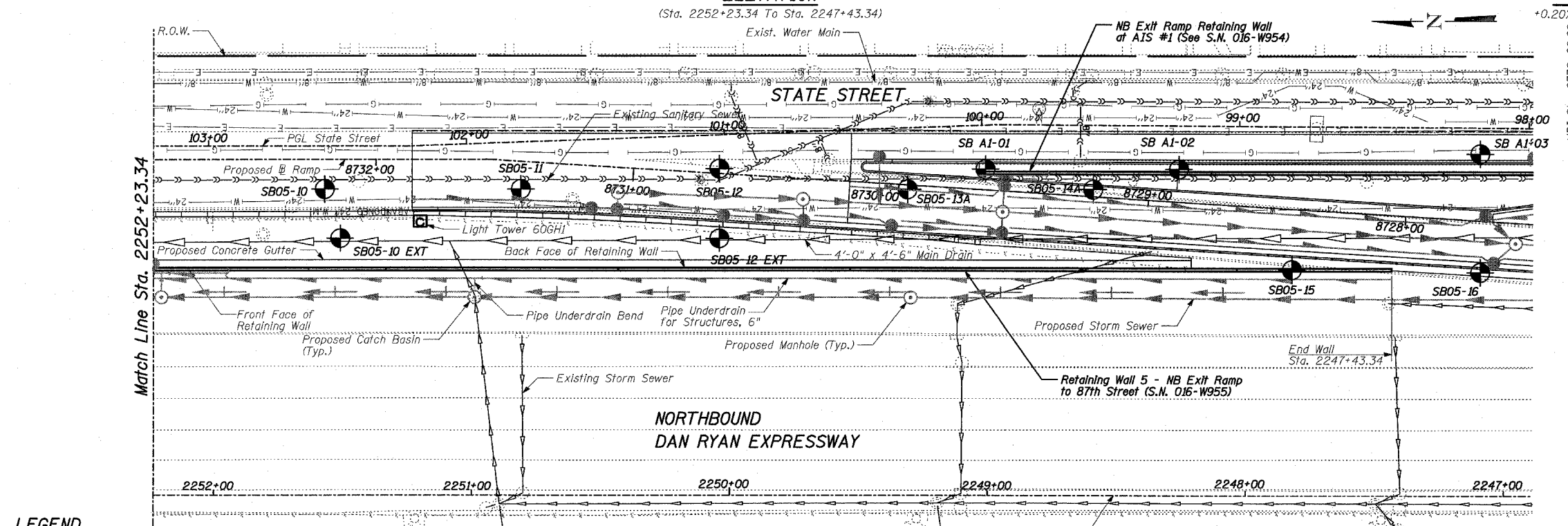
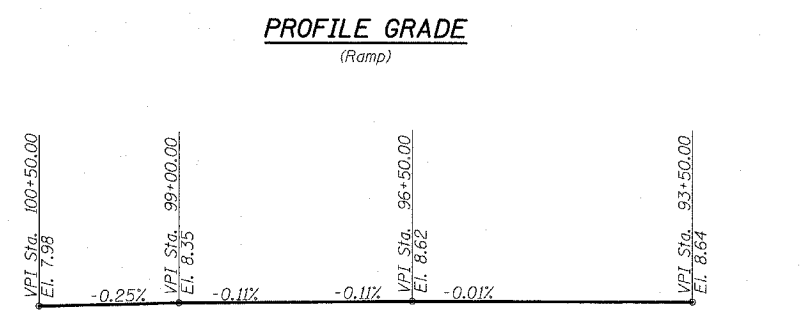
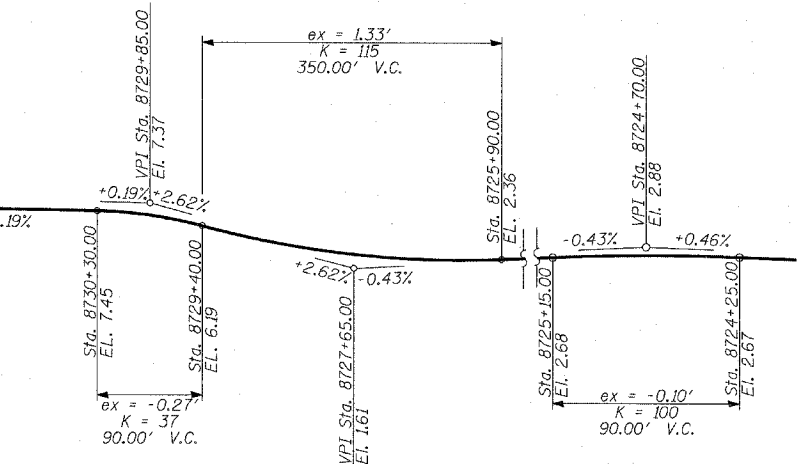
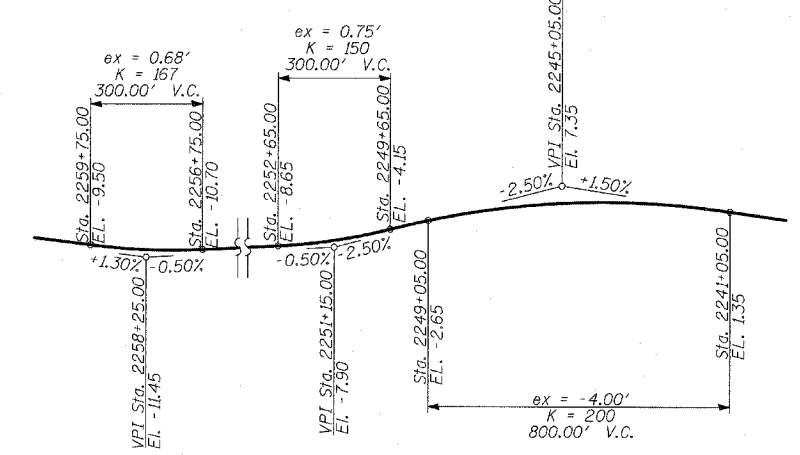
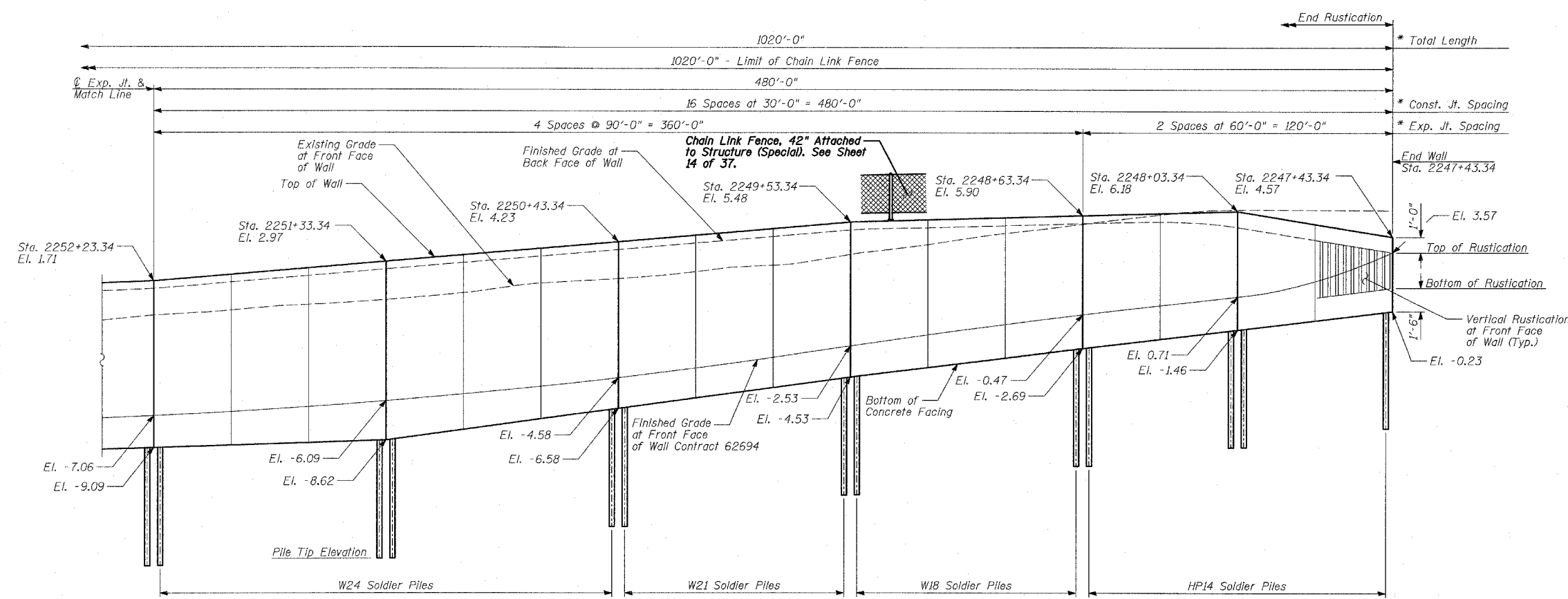
LOCATION SKETCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 EXIT RAMP TO 87TH ST.
 WALL 5 - GENERAL PLAN
 STA. 2257+63.34 TO STA. 2247+43.34
 S.N. 016-W955 DESIGNED BY: MI, TB
 SCALE: N.T.S. DRAWN BY: TB, DJR
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

04/15/2005 07:28:48 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	12
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62932
(1516.1, 1717 & 1818) I-3				



LEGEND

⊕ Boring Location

* Measured along Front Face of Wall.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
EXIT RAMP TO 87TH ST.
WALL 5 - GENERAL PLAN
STA. 2257+63.34 TO STA. 2247+43.34
S.N. 016-W955
SCALE: N.T.S.
DATE: APRIL 15, 2005

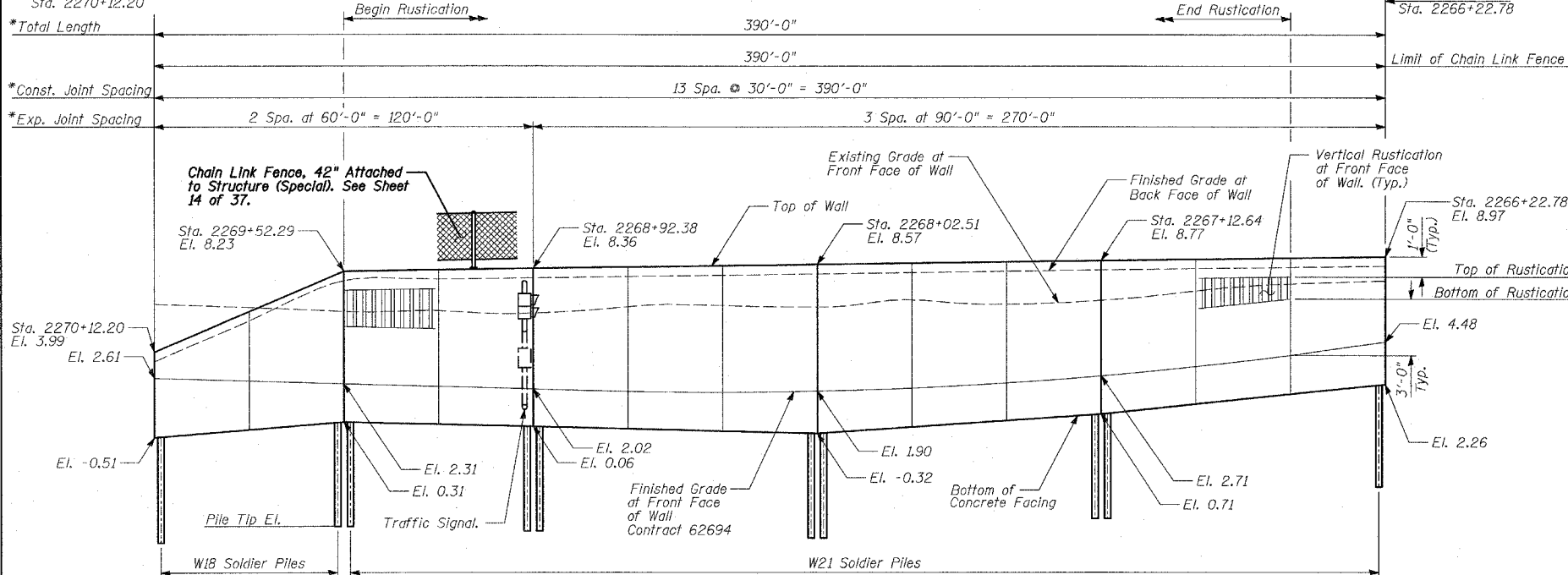
DESIGNED BY: MI, TB
DRAWN BY: TB, DJR
CHECKED BY: TD, MI

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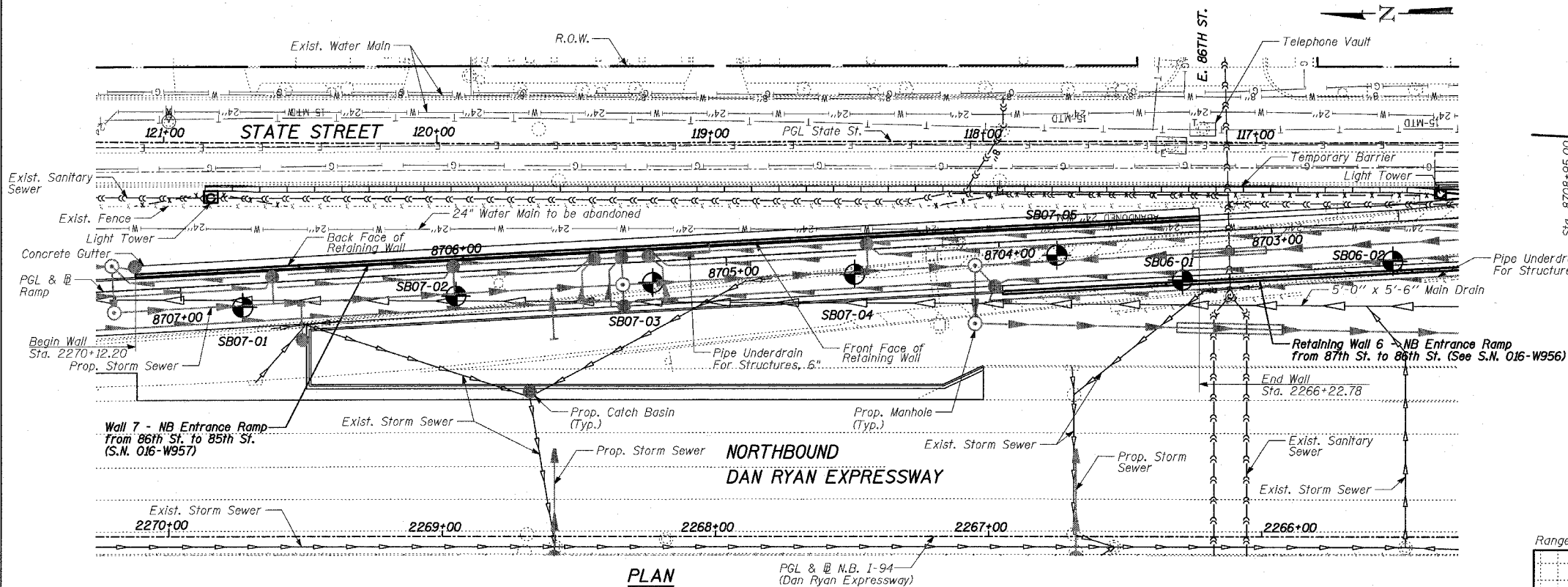
Benchmarks: BM 3553 Set "+" northwest bolt of traffic signal/light base at northeast intersection of 87th St. and State St. El. 8.47

Existing Structure: None.

Begin Wall Sta. 2270+12.20



ELEVATION



PLAN

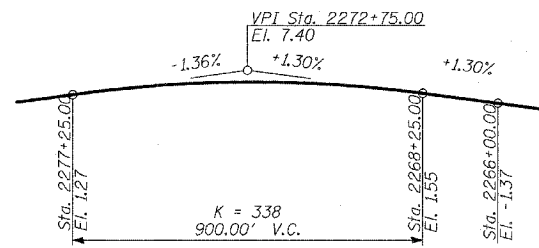
PGL & @ N.B. I-94 (Dan Ryan Expressway)

LEGEND

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

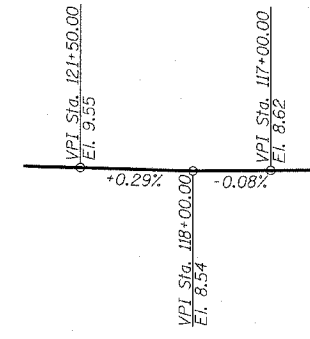
TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	13
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
(1516.1, 1717 & 1818) I-3				
				62932



PROFILE GRADE

(N.B. I-94)



PROFILE GRADE

(State Street)

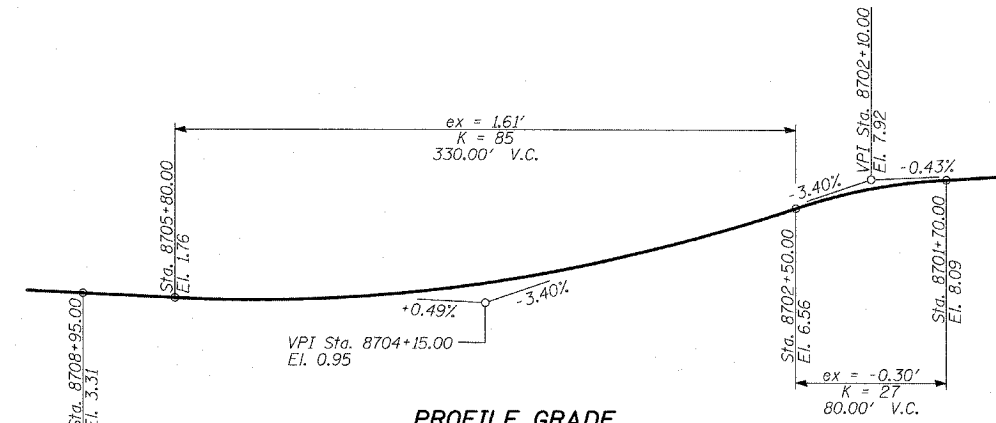
DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

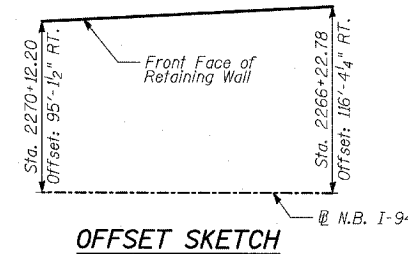
FIELD UNITS

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

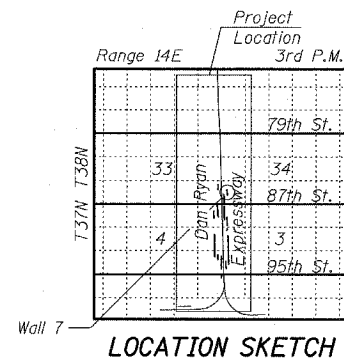


PROFILE GRADE

(Ramp)



OFFSET SKETCH

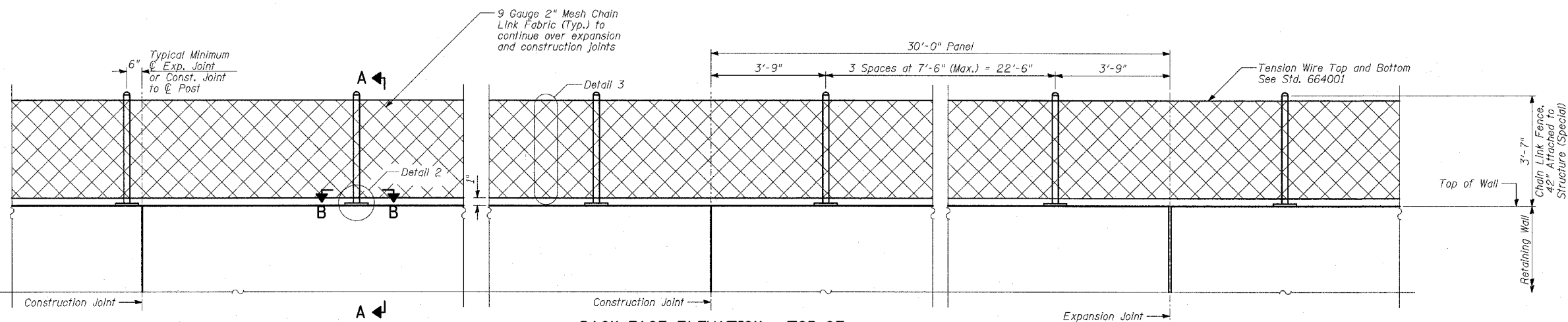


LOCATION SKETCH

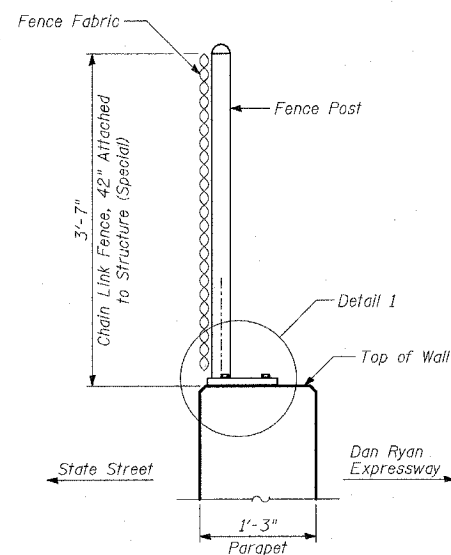
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP FROM 86TH ST. TO 85TH ST.
WALL 7 - GENERAL PLAN
STA. 2270+12.20 TO STA. 2266+22.78
 S.N. 016-W957 DESIGNED BY: MI, TB
 SCALE: N.T.S. DRAWN BY: TB, DJR
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

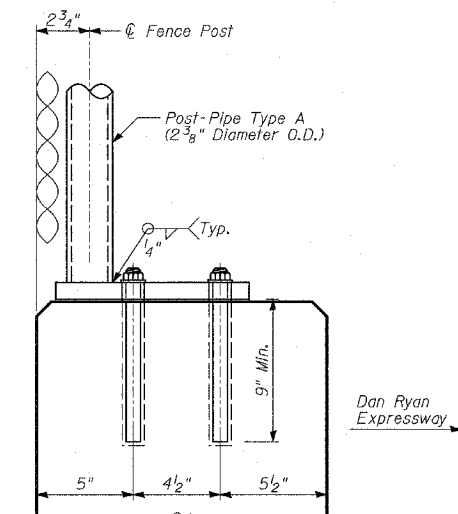
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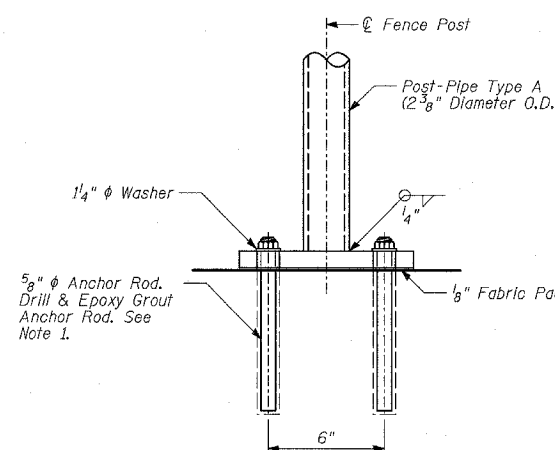
**BACK FACE ELEVATION - TOP OF
RETAINING WALL CHAIN LINK FENCE**



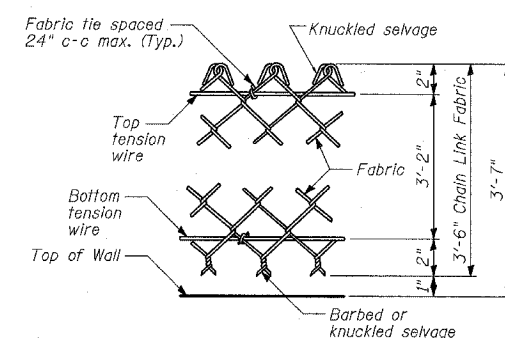
SECTION A-A



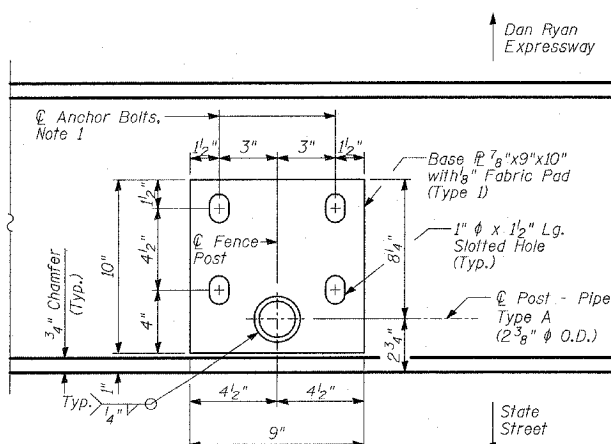
DETAIL 1



DETAIL 2



DETAIL 3



**SECTION B-B
BASE PLATE PLAN**

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
2A	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	720
5	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	1020
7	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	390
Total		FOOT	2130

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

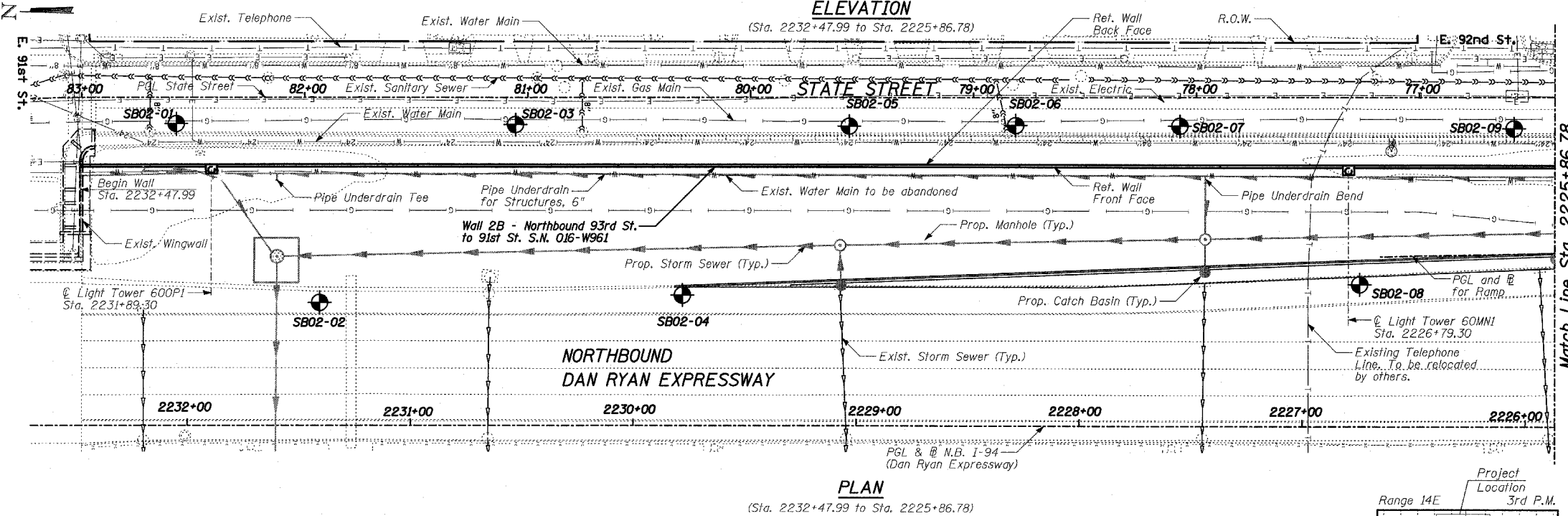
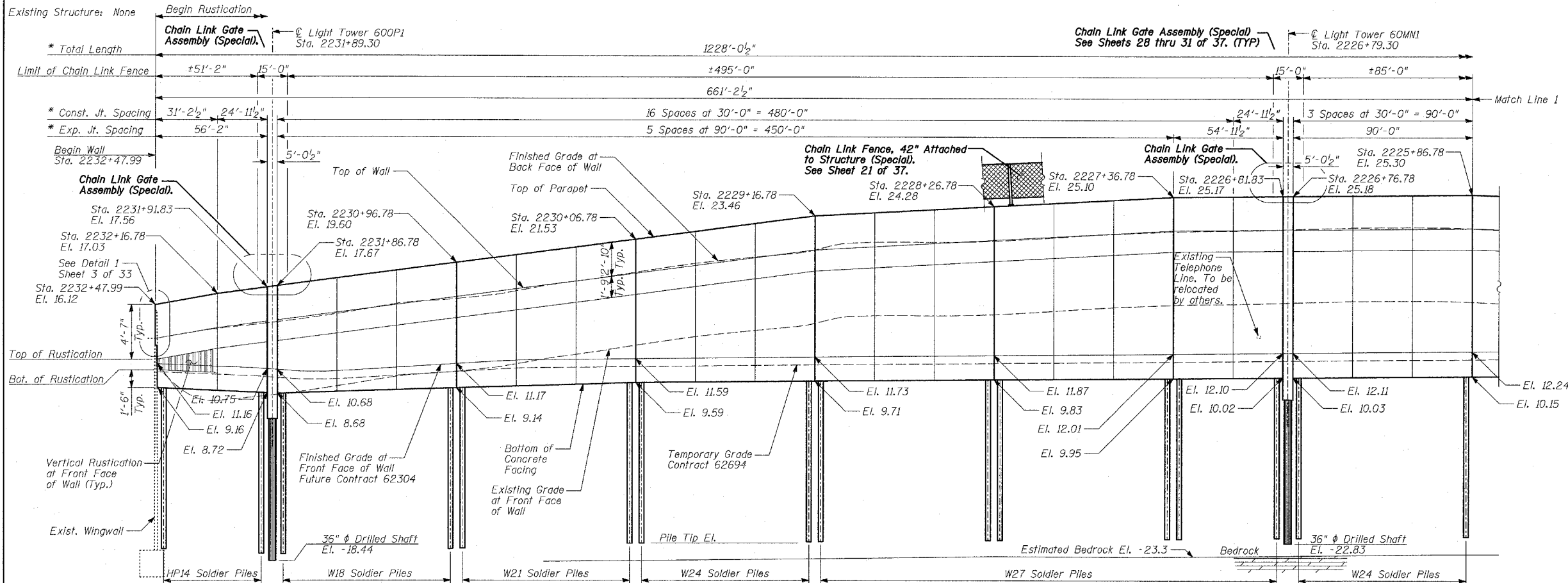
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP FROM 95TH ST. TO 93RD ST.
 WALLS 2A, 5 & 7 - CHAIN LINK FENCE
 42" ATTACHED TO STRUCTURE (SPECIAL)**
 DESIGNED BY: MI, MAF
 DRAWN BY: MAF, DJR
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 CHECKED BY: TD, MI

P:\0237-3\road\cvt\71717\0237-3-094.dgn 07/13/2005 07:29:06 AM

Benchmarks: BM 3522 Set "+" on south southeast flange bolt of hydrant ± halfway between north and south entrance to Citgo, east side of State St. and north of 95th St. El. 18.06

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	15
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• (1516.1, 1717 & 1818) I-3				
				62932



DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

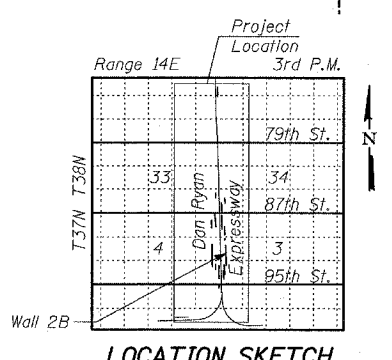
DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 36,000 psi (M270 Grade 36) Soldier Piles

LEGEND

● Boring Location

* Measured along Front Face of Wall.

TYLIN INTERNATIONAL

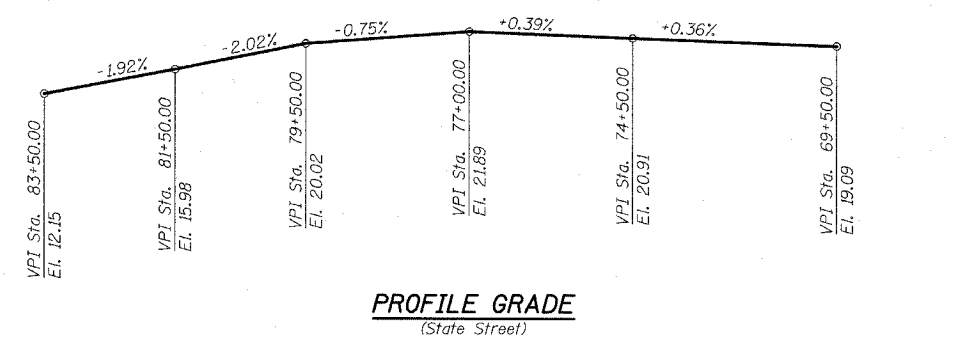
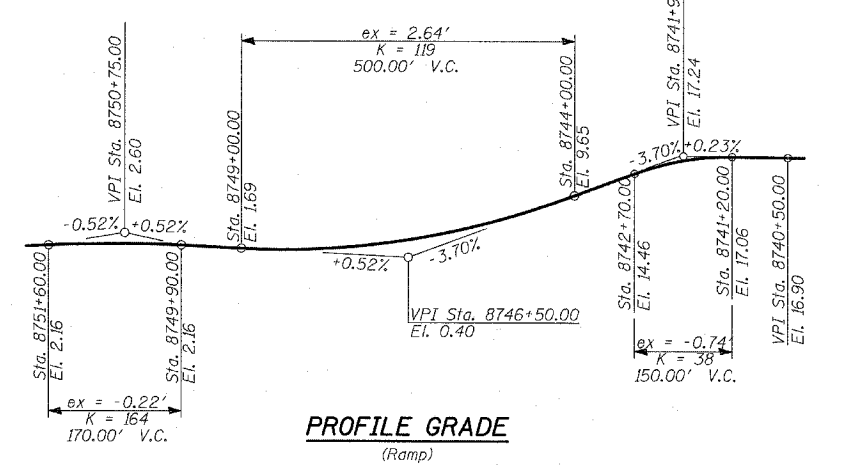
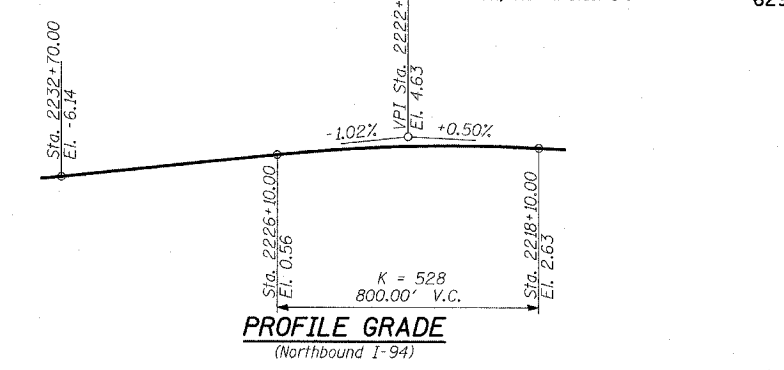
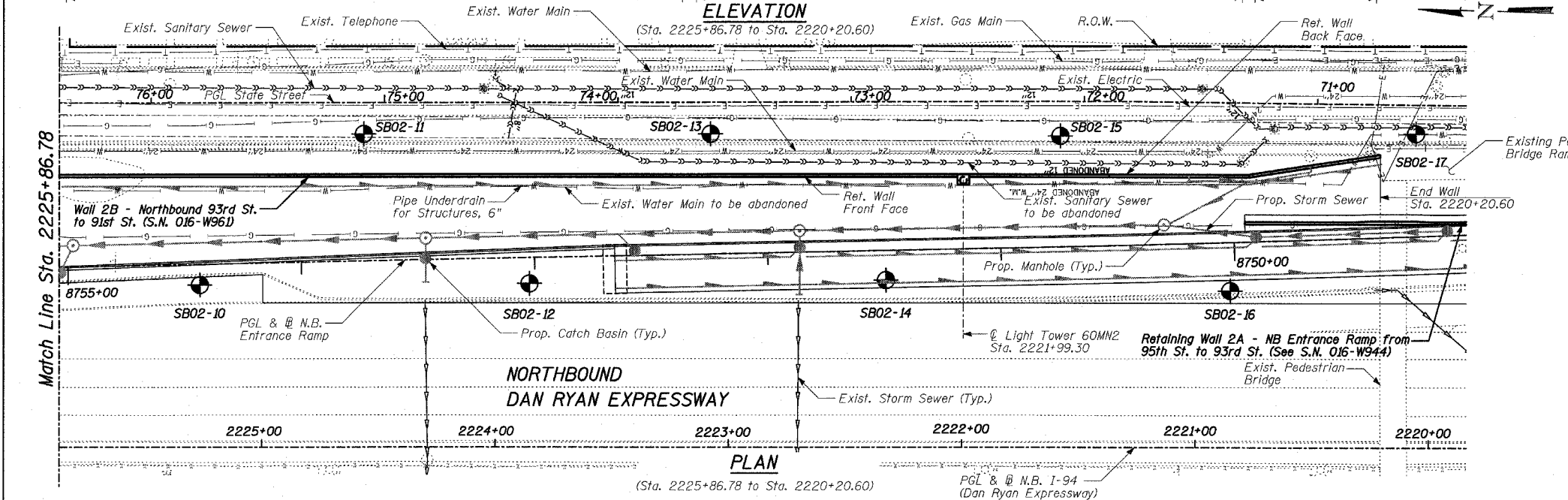
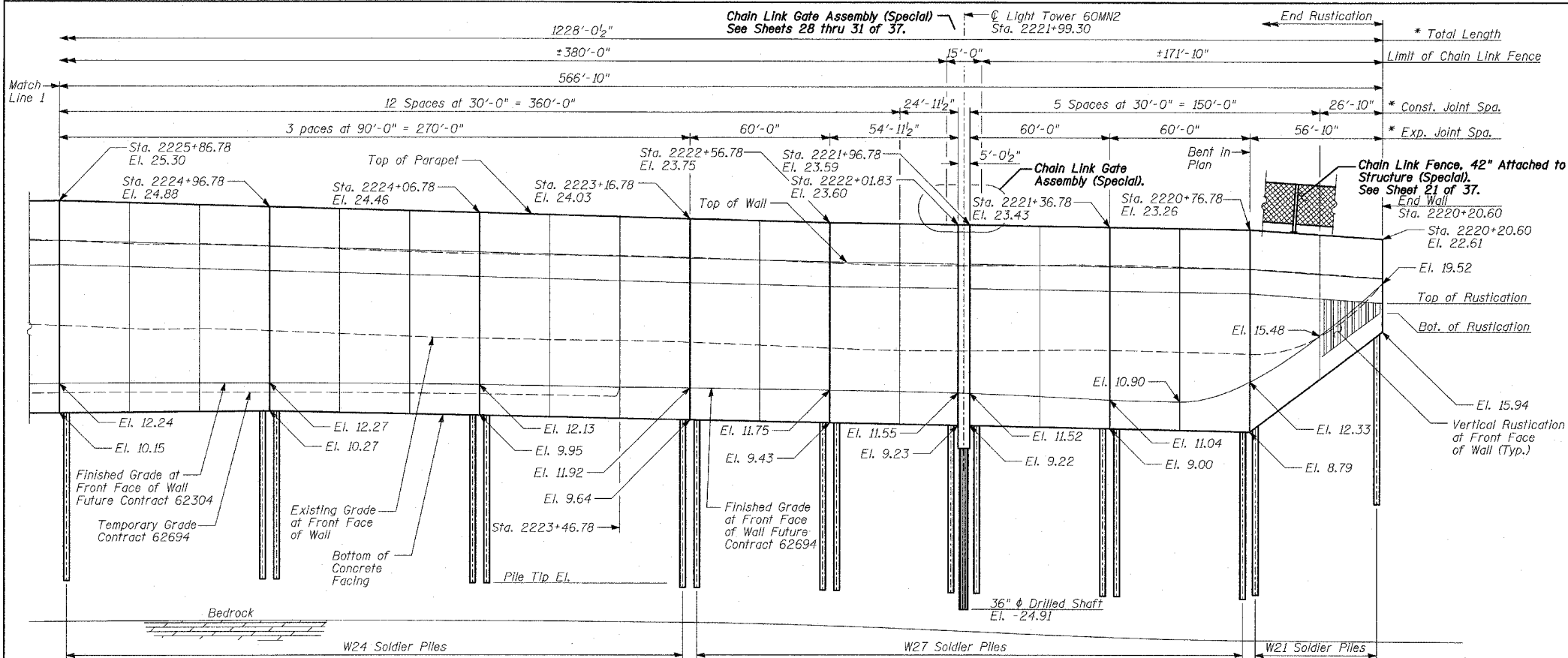


REVISIONS	
NAME	DATE

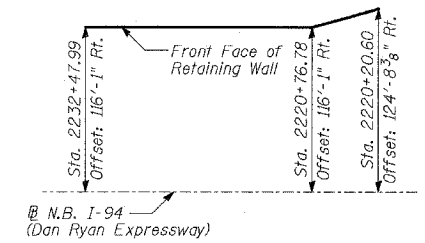
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
93RD ST. TO 91ST ST.
WALL 2B - GENERAL PLAN
STA. 2232+47.99 TO STA. 2220+20.60
S.N. 016-W961 DESIGNED BY: MI, DJR
SCALE: N.T.S. DRAWN BY: DJR, MAF
DATE: APRIL 15, 2005 CHECKED BY: TD, MI

04/13/2005 07:29:17 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	16
STA. 2210+00.00 TO STA. 2356+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		• (1516.1, 1717 & 1818) 1-3		
		62932		



LEGEND
 Boring Location
 * Measured along Front Face of Wall.



OFFSET SKETCH

TYLIN INTERNATIONAL

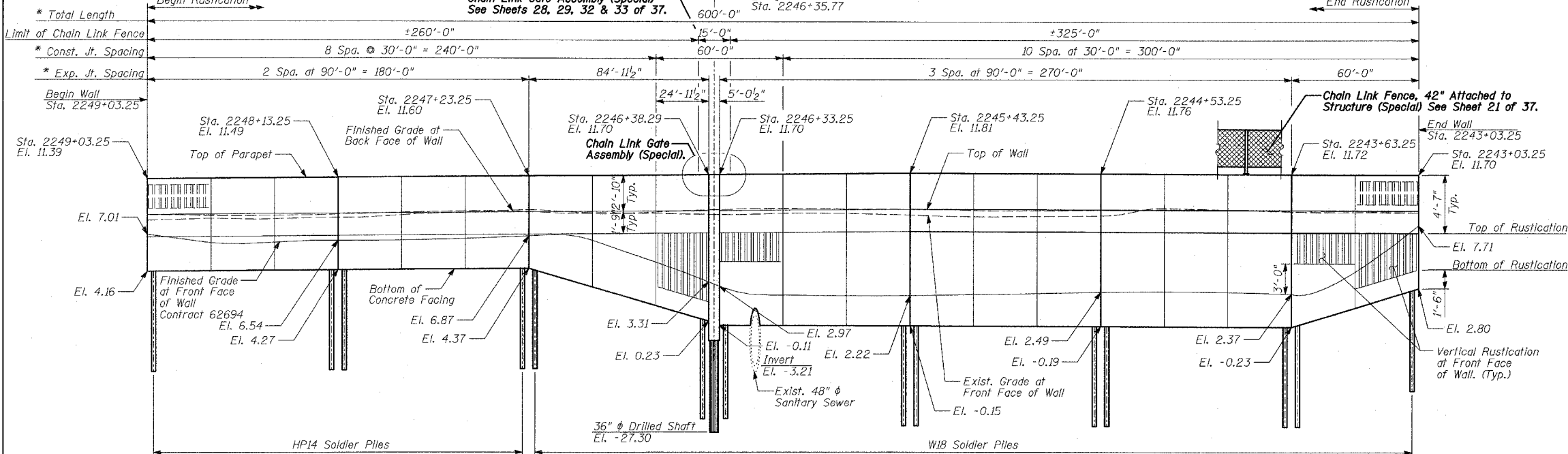
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 93RD ST. TO 91ST ST.
 WALL 2B - GENERAL PLAN
 STA. 2232+47.99 TO STA. 2220+20.60
 S.N. 016-W961 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, MAF
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

04/15/2005 07:29:25 AM

Benchmarks: BM 3553 Set "+" northwest bolt of traffic signal/light base at northeast intersection of 87th St. and State St. El. 8.47

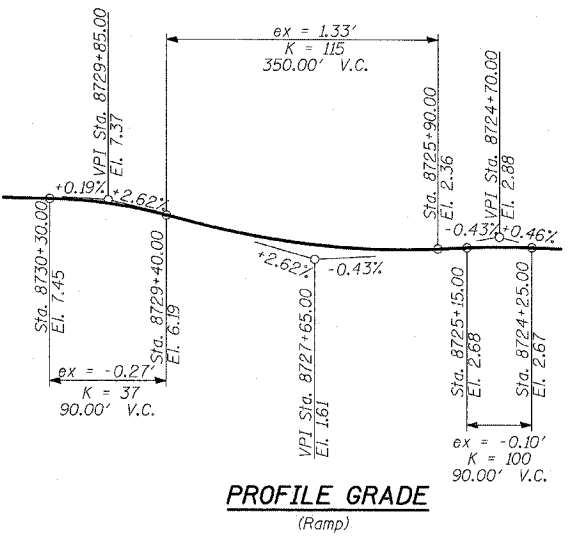
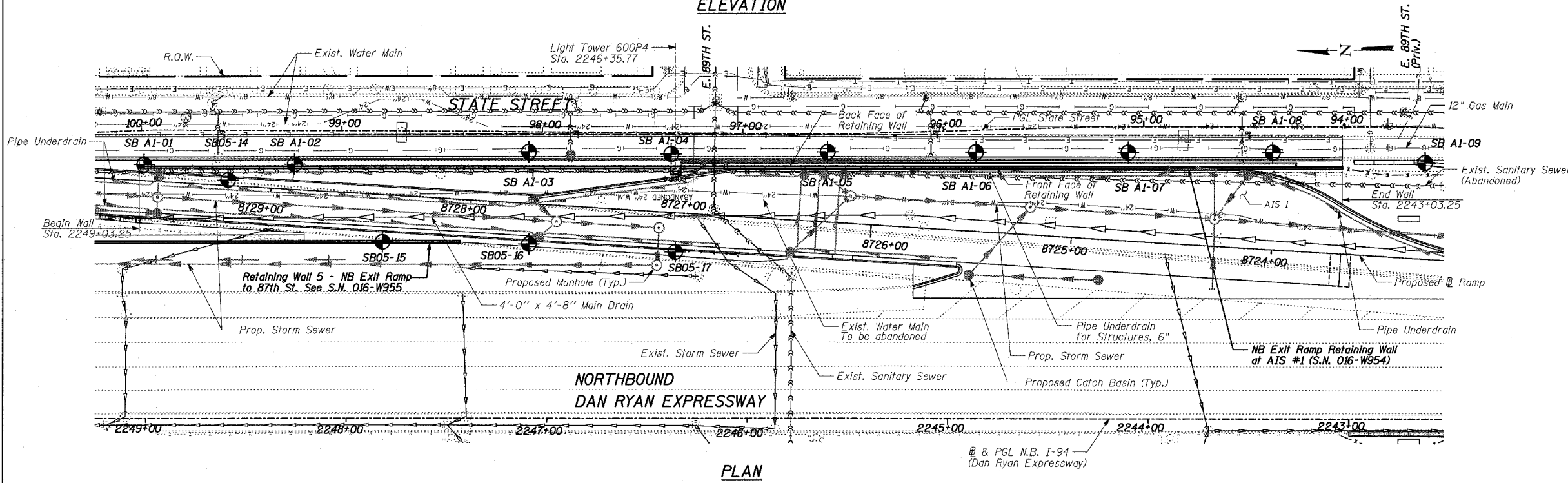
Existing Structure: None.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	17
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
(1516.1, 1717 & 1818) I-3		62932		

DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

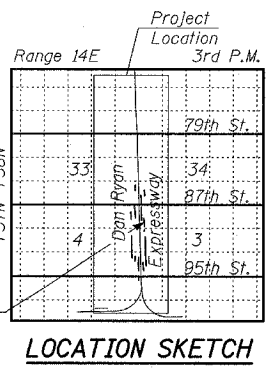
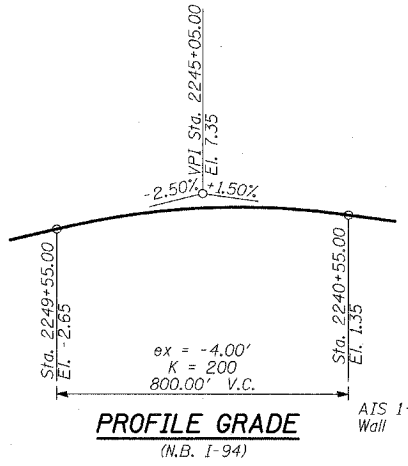
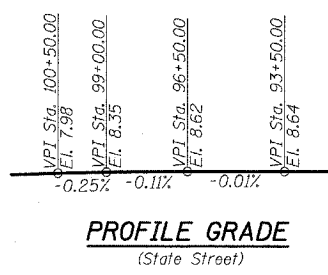
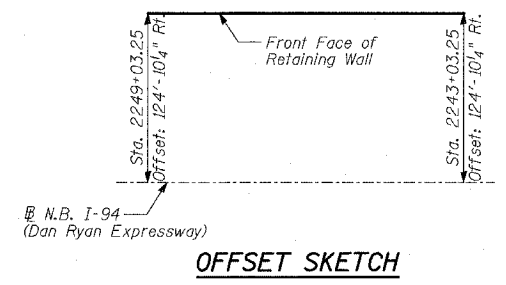
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36) Soldier Piles



LEGEND

Boring Location

* Measured along Front Face of Wall.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
EXIT RAMP AT AIS #1
AIS 1 - GENERAL PLAN
STA. 2249+03.25 TO STA. 2243+03.25
S.N. 016-W954
SCALE: N.T.S.
DATE: APRIL 15, 2005

DESIGNED BY: MI, MAF
DRAWN BY: MAF, DJR
CHECKED BY: TD, MI

TYLIN INTERNATIONAL

PA-02-373 Roadway/Highway/Retaining Wall/3d P.M. 04/15/2005 07:29:33 AM

Benchmarks: BM 2251 Found cross on east bolt of fire hydrant on the east side of State St. Approximately 135 feet north of 79th St. El.=0.95 Feet

Existing Structure: None

* Total Length 1170'-0"

Limits of Chain Link Fence ±374'-0"

* Const. Jt. Spacing 12 Spaces at 30'-0" = 360'-0"

* Exp. Jt. Spacing 2 Spaces at 60'-0" = 120'-0"

Begin Wall Sta. 2327+71.00 El. 12.19

Top of Wall Sta. 2327+10.14 El. 12.24

Top of Parapet Sta. 2326+18.90 El. 12.31

Finished Grade at Back Face of Wall Sta. 2325+27.79 El. 12.38

Chain Link Gate Assembly (Special) See Sheets 28, 29, 32 & 33 of 37.

Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

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Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

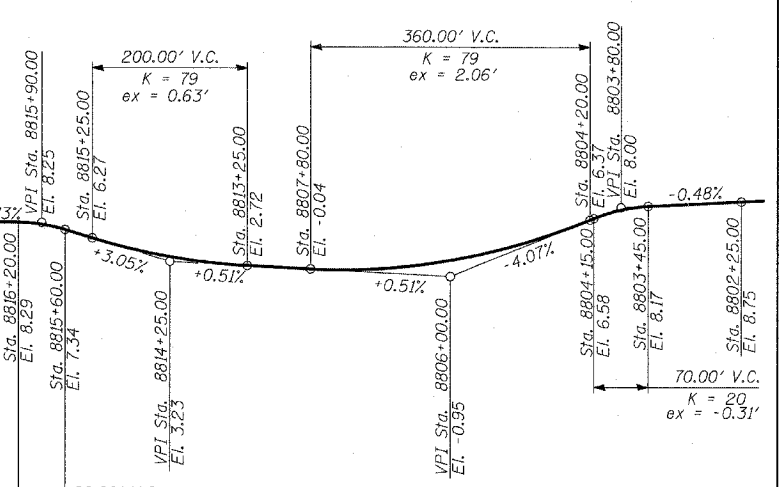
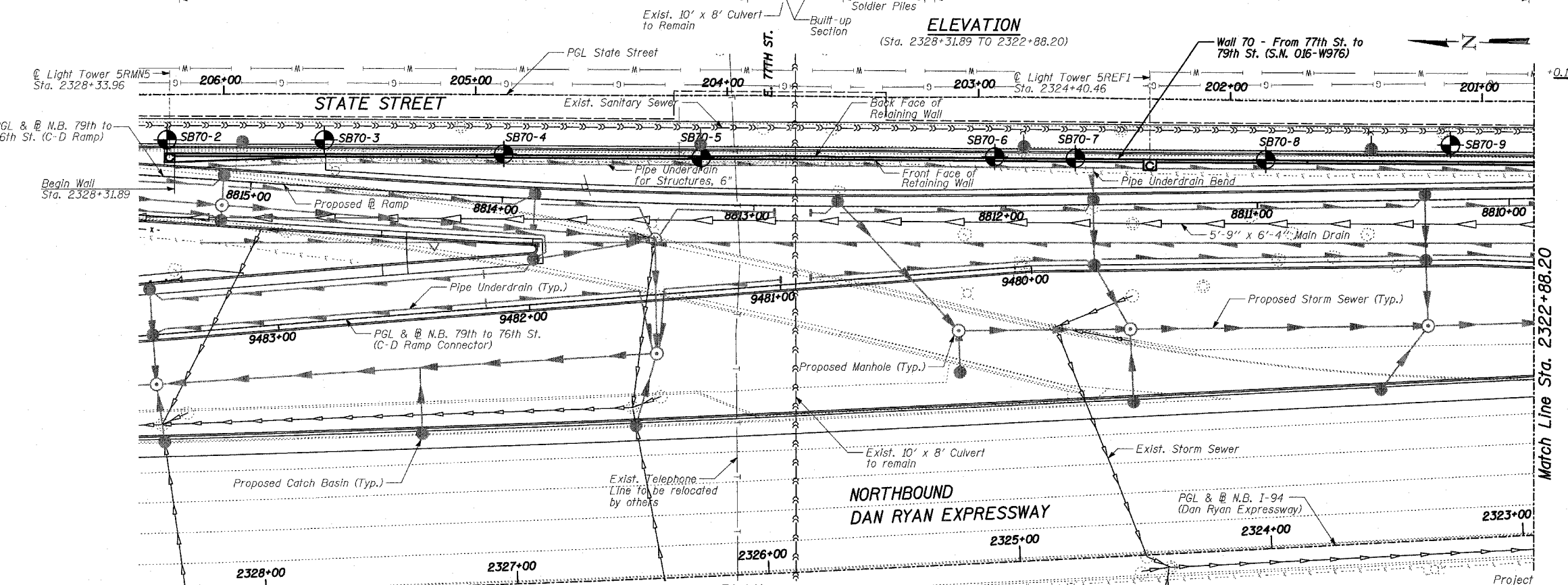
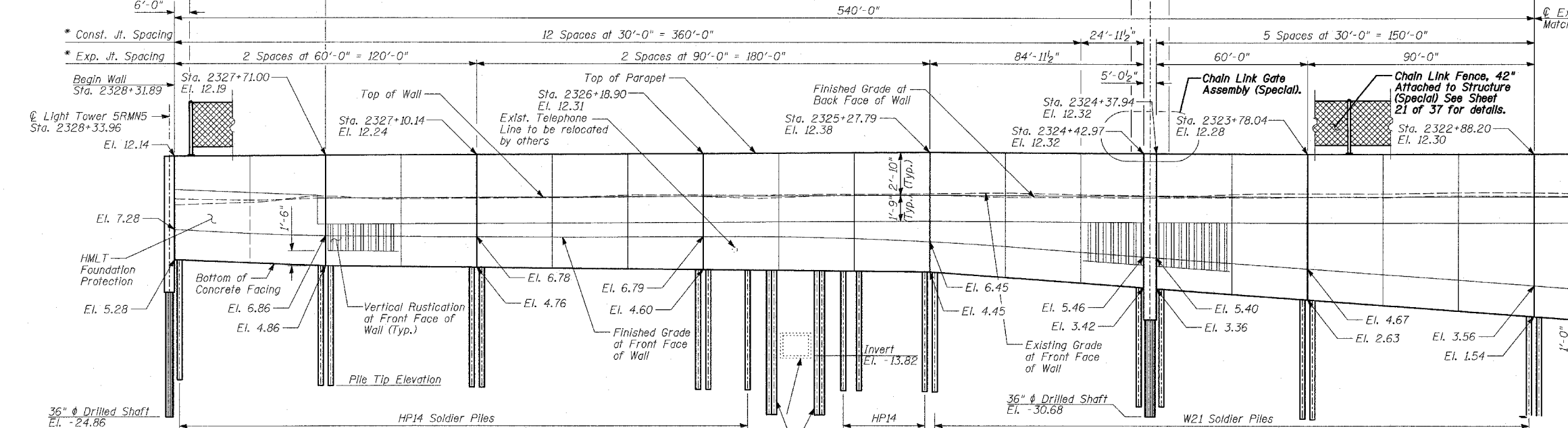
Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

Chain Link Fence, 42" Attached to Structure (Special) See Sheet 21 of 37 for details.

Chain Link Gate Assembly (Special).

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	18
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• (1516.1, 1717 & 1818) I-3				
62932				



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

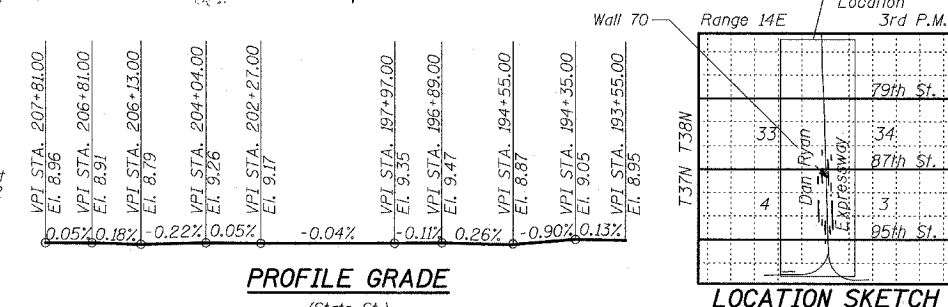
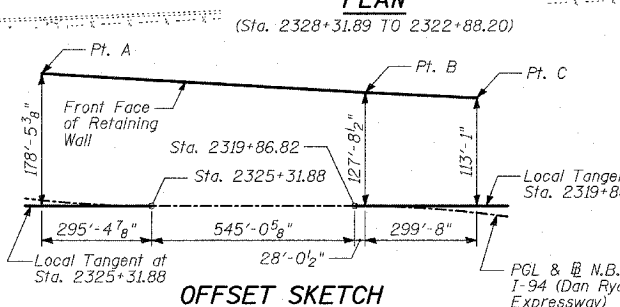
LEGEND

• Boring Location

* Measured along Front Face of Wall.

OFFSET SKETCH

Point	Station	Offset to N.B. I-94
A	2328+31.89	174'-7" Rt.
B	2319+59.07	127'-8 1/8" Rt.
C	2316+62.40	117'-8 5/8" Rt.



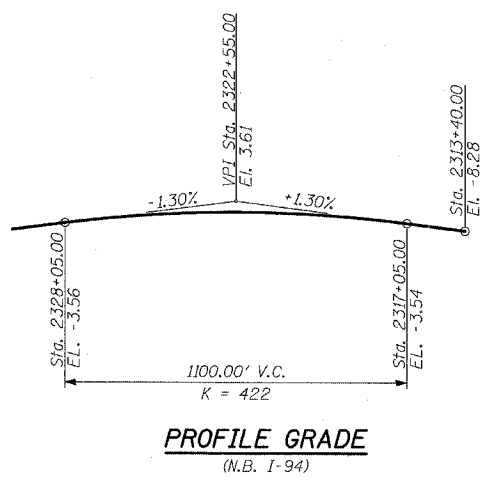
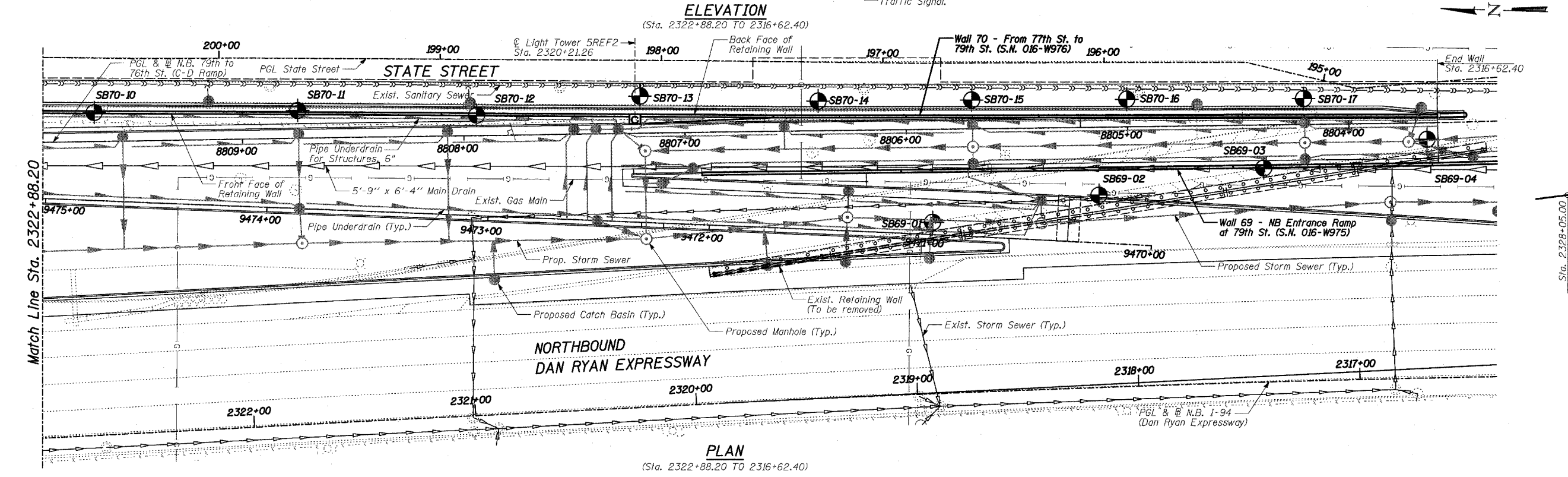
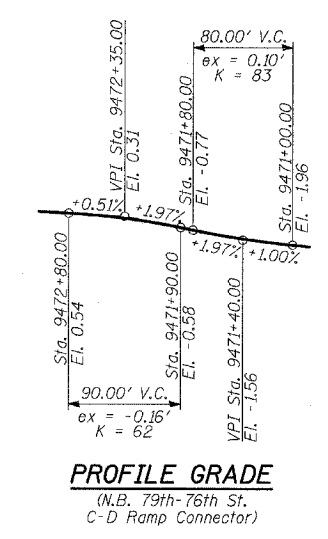
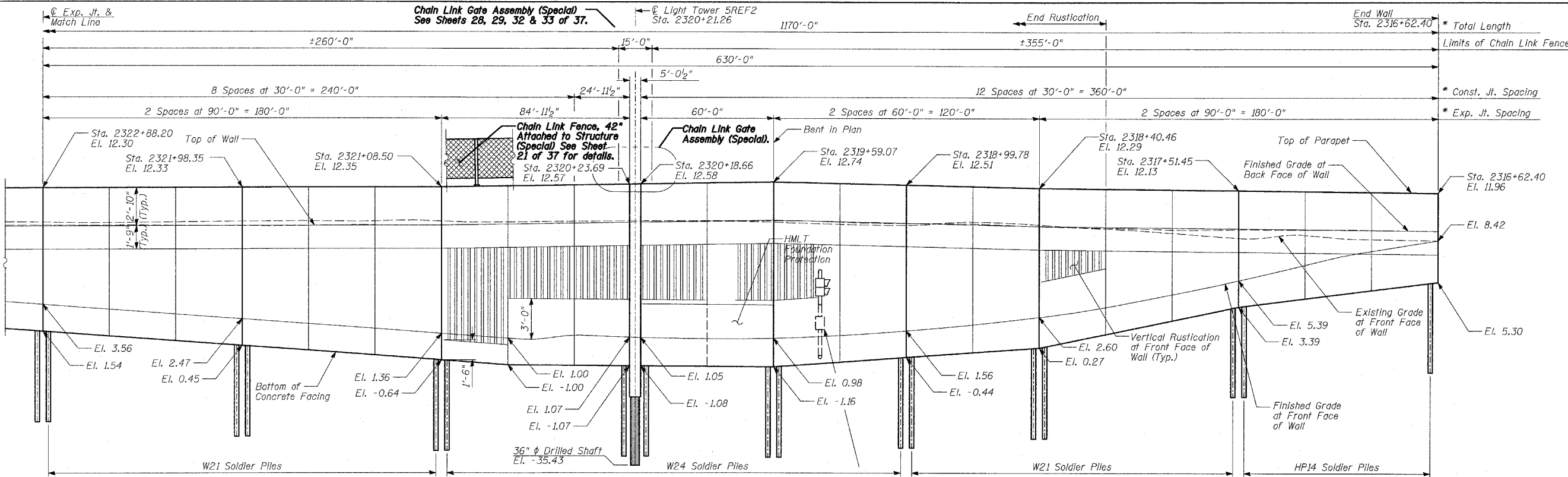
TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
77TH ST. TO 78TH ST.
WALL 70 - GENERAL PLAN
STA. 2328+31.89 TO STA. 2322+88.20
S.N. 016-W976
SCALE: N.T.S.
DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
DRAWN BY: DJR, SB
CHECKED BY: TD, MI

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	19
STA. 2210+00.00 TO STA. 2356+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		• (1516.1, 1717 & 1818) I-3		
				62932



LEGEND

• Boring Location

* Measured along Front Face of Wall.

CURVE DATA

Proposed Curve NBDRO1 $\Delta = 2^\circ 58' 38.60''$ (LT) $D = 0^\circ 29' 58.77''$ $R = 11,467.00$ $L = 595.89$ $E = 3.87$ $T = 298.01$ $P.C. STA = 2313+90.93$ $P.I. STA = 2316+88.94$ $P.T. STA = 2319+86.82$	Proposed Curve NBDRO2 $\Delta = 3^\circ 16' 48.34''$ (RT) $D = 0^\circ 30' 01.44''$ $R = 11,450.00$ $L = 655.49$ $E = 4.69$ $T = 327.84$ $P.C. STA = 2325+31.88$ $P.I. STA = 2328+59.71$ $P.T. STA = 2331+87.37$	Proposed Curve 79B76C-1 $\Delta = 4^\circ 25' 49.28''$ (RT) $D = 2^\circ 51' 53.24''$ $R = 2,000.00$ $L = 154.65$ $E = 1.50$ $T = 77.36$ $P.C. STA = 8802+22.95$ $P.I. STA = 8803+00.31$ $P.T. STA = 8803+77.60$	Proposed Curve 79B76C-2 $\Delta = 4^\circ 41' 07.98''$ (RT) $D = 1^\circ 50' 53.70''$ $R = 3,100.00$ $L = 253.51$ $E = 2.59$ $T = 126.83$ $P.C. STA = 8812+01.74$ $P.I. STA = 8813+28.57$ $P.T. STA = 8814+55.25$
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REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
77TH ST. TO 78TH ST.
WALL 70 - GENERAL PLAN
STA. 2322+88.20 TO STA. 2316+62.40
 S.N. 016-W976
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, SB
 CHECKED BY: TD, MI

TYLIN INTERNATIONAL

04/13/2005 07:29:49 AM

Benchmarks: BM 3556 Set "+" easterly flange bolt of hydrant at northeast corner of 75th St. and State St. El. 9.06

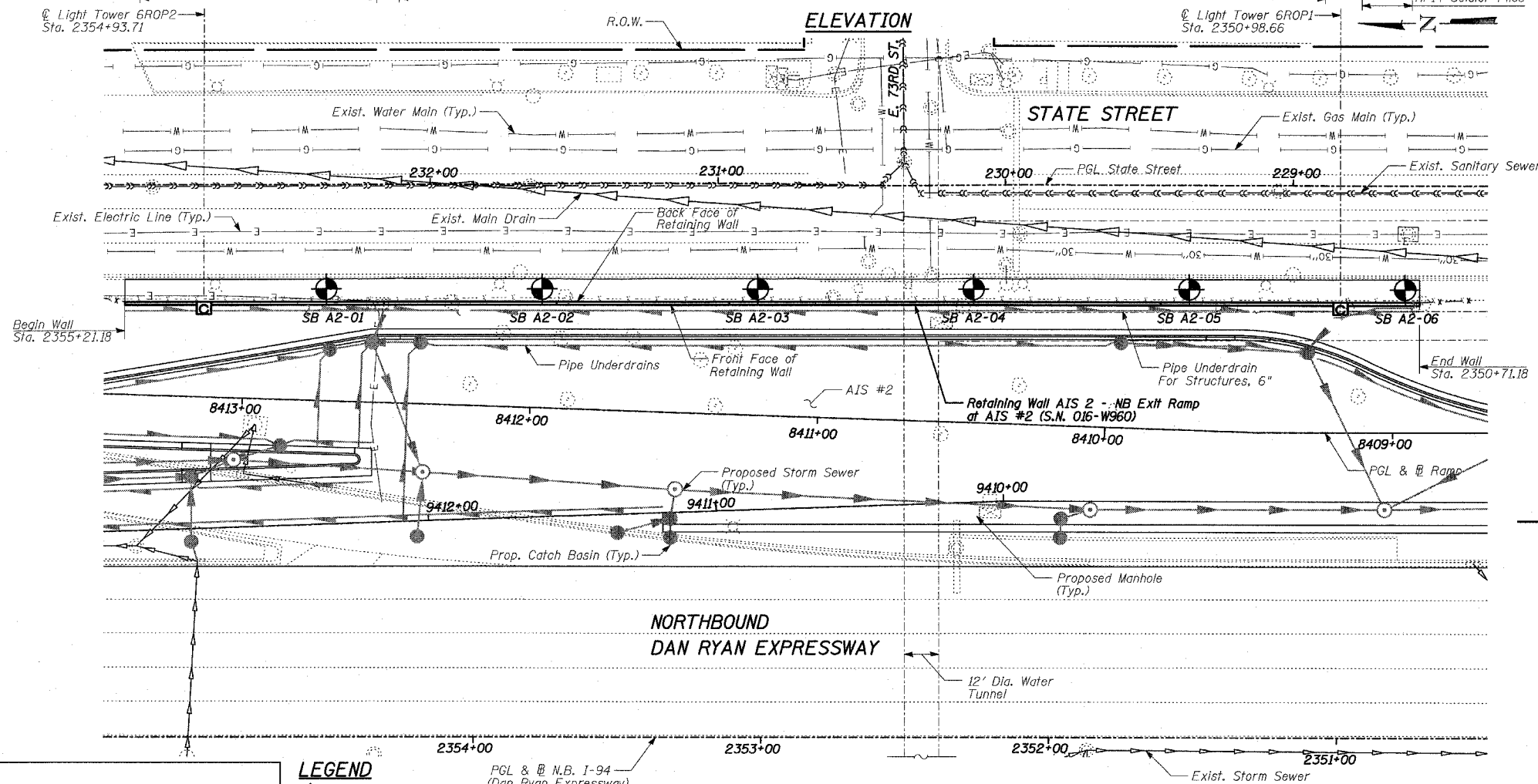
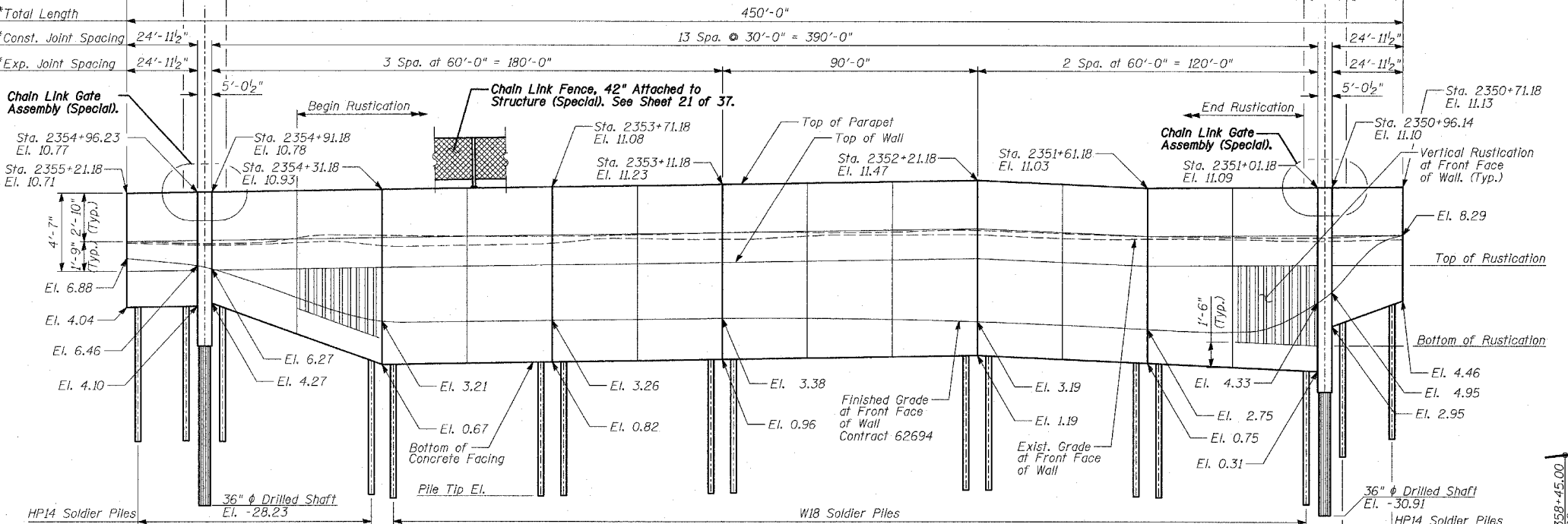
Existing Structure: None.

Begin Wall
Offset: 150.99' Rt.
Sta. 2355+21.18

Chain Link Gate Assembly (Special)
See Sheets 28, 29, 32 & 33 of 37.

Chain Link Gate Assembly (Special)
See Sheets 28, 29, 32 & 33 of 37.

End Wall
Offset: 150.99' Rt.
Sta. 2350+71.18



TYLIN INTERNATIONAL

LEGEND
 Boring Location
 Measured along Front Face of Wall.

PLAN

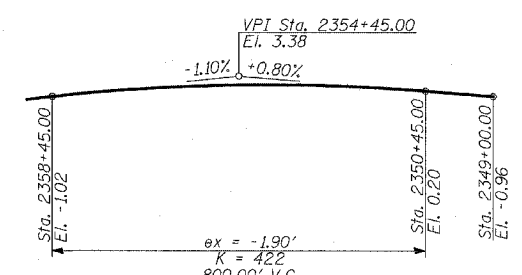
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	37	20
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
▪ (1516.1, 1717 & 1818) I-3				
				62932

DESIGN SPECIFICATION

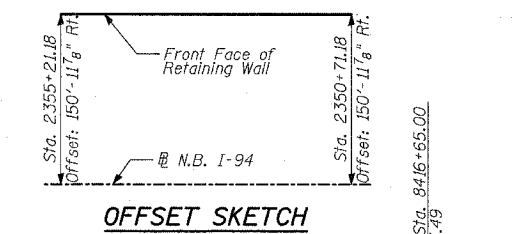
AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES

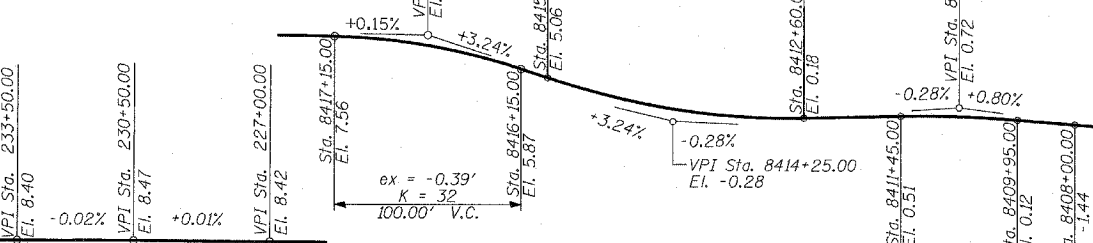
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Soldier Piles



PROFILE GRADE
(N.B. I-94)

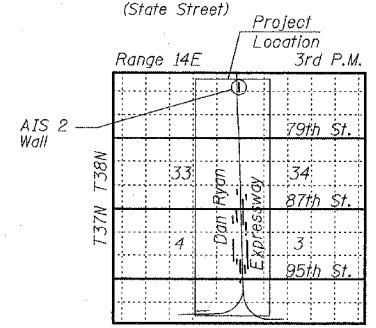


OFFSET SKETCH



PROFILE GRADE
(State Street)

PROFILE GRADE
(Ramp)

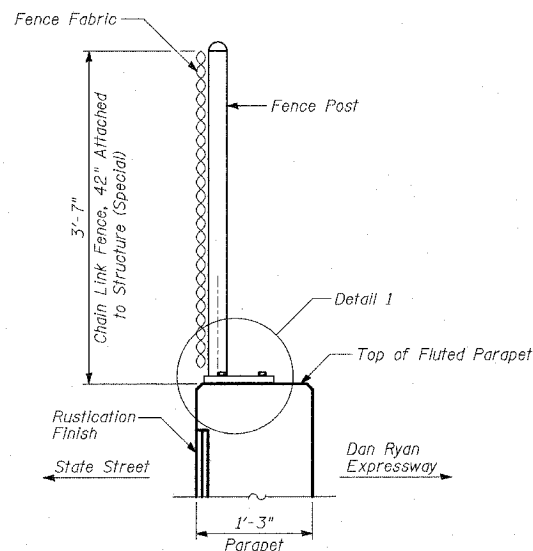
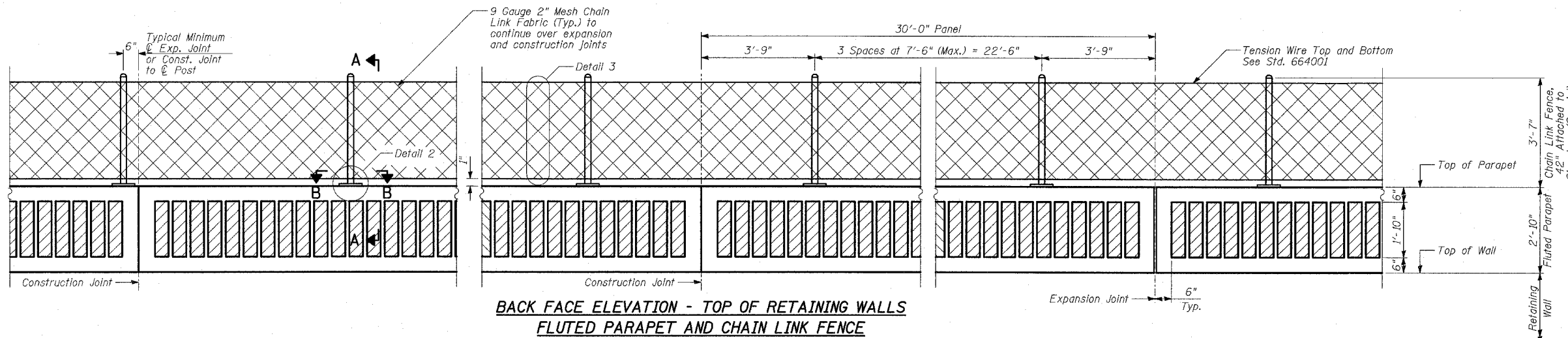


LOCATION SKETCH

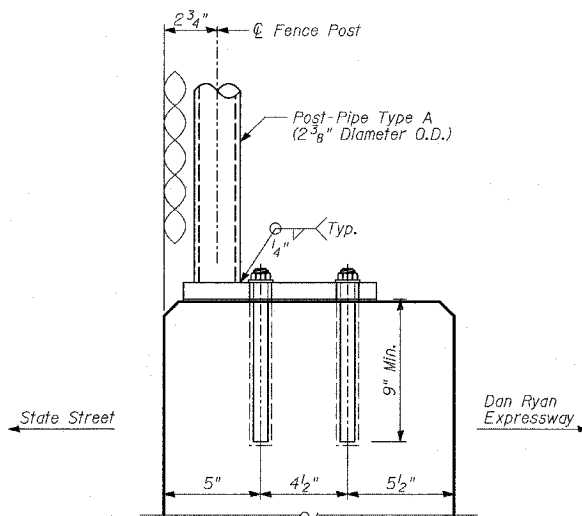
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
EXIT RAMP AT AIS #2
AIS 2 - GENERAL PLAN
STA. 2355+21.18 TO STA. 2350+71.18
 S.N. 016-W960 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, TB
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

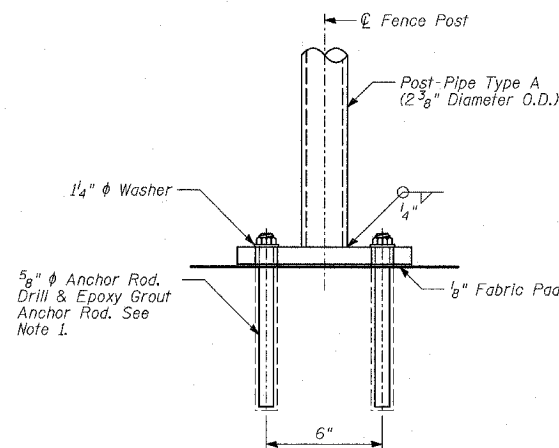
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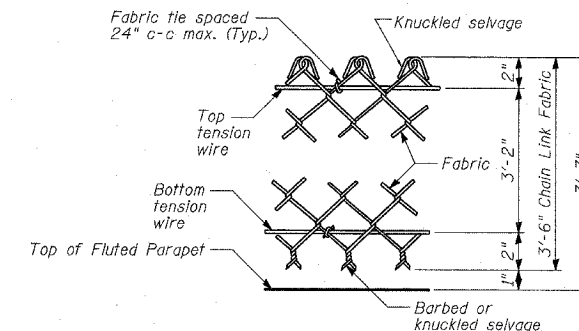
SECTION A-A



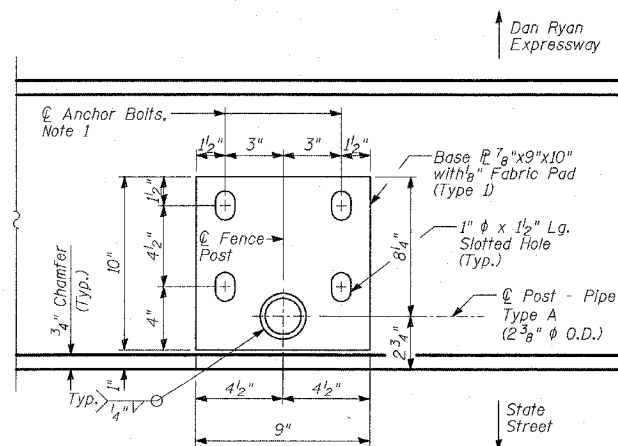
DETAIL 1



DETAIL 2



DETAIL 3



SECTION B-B
BASE PLATE PLAN

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
2B	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	1184
AIS1	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	585
70	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	1134
AIS2	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	420
Total			3323

TYLIN INTERNATIONAL

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
93RD ST. TO 91ST ST.
WALLS 2B, AIS1, 70 & AIS2 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
 DESIGNED BY: MI, DJR
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DRAWN BY: DJR, MAF
 CHECKED BY: TD, MI

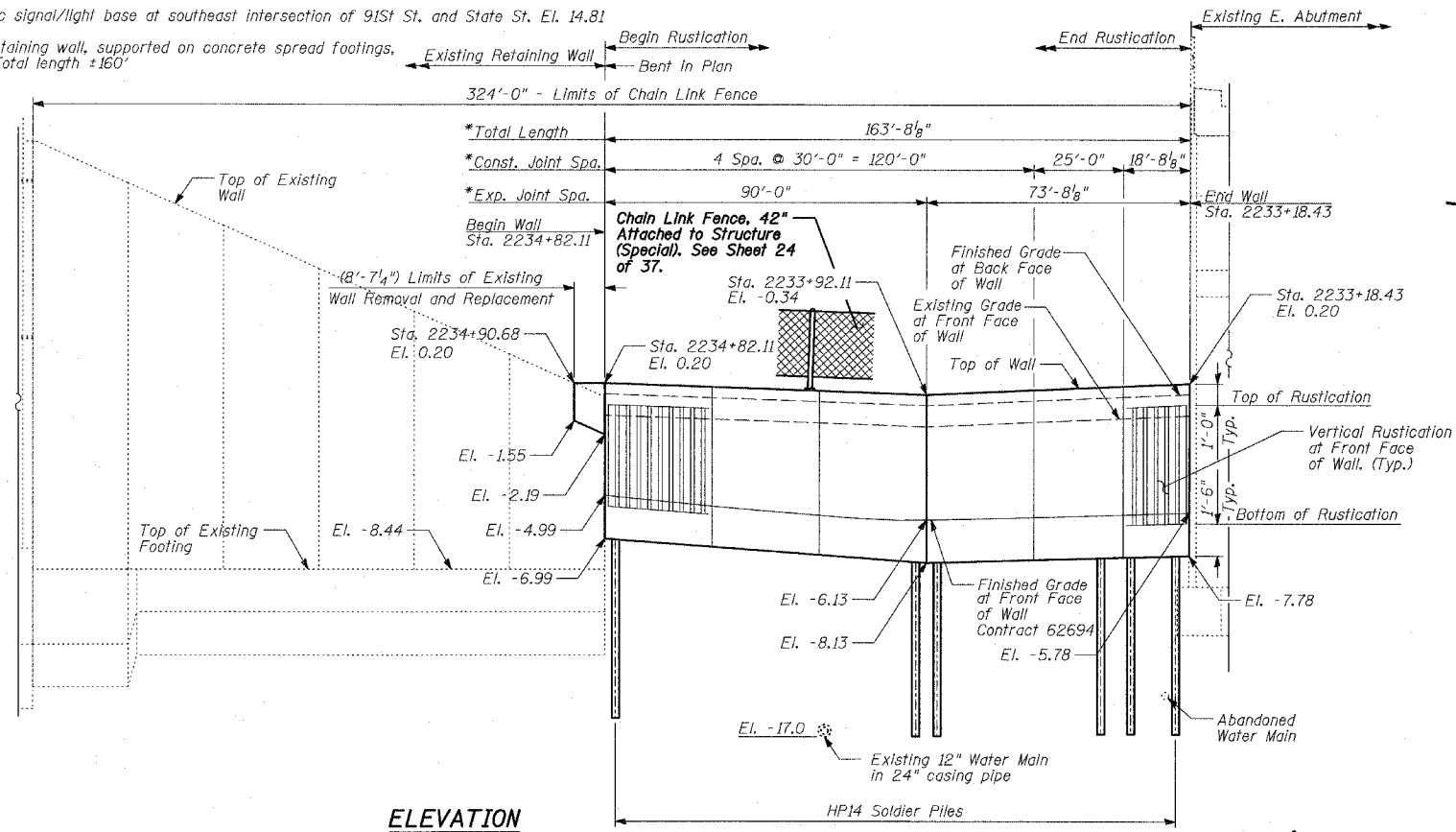
01/13/2005 07:29:59 AM

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

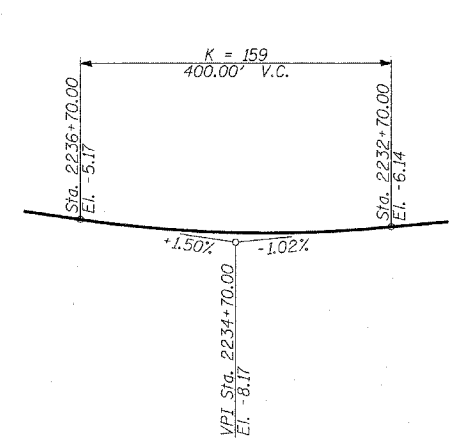
Existing: Structure: Reinforced concrete cantilever retaining wall, supported on concrete spread footings, along Northbound Dan Ryan. Built in 1960. Total length ±160'

Salvage: Total

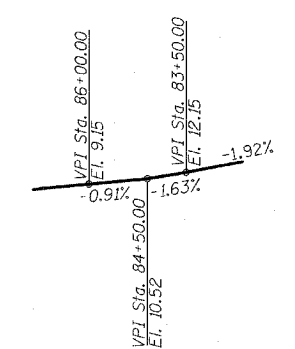
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	22
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
* (1516.1, 1717 & 1818) I-3		62932		



ELEVATION



PROFILE GRADE
(N.B. I-94)



PROFILE GRADE
(State Street)

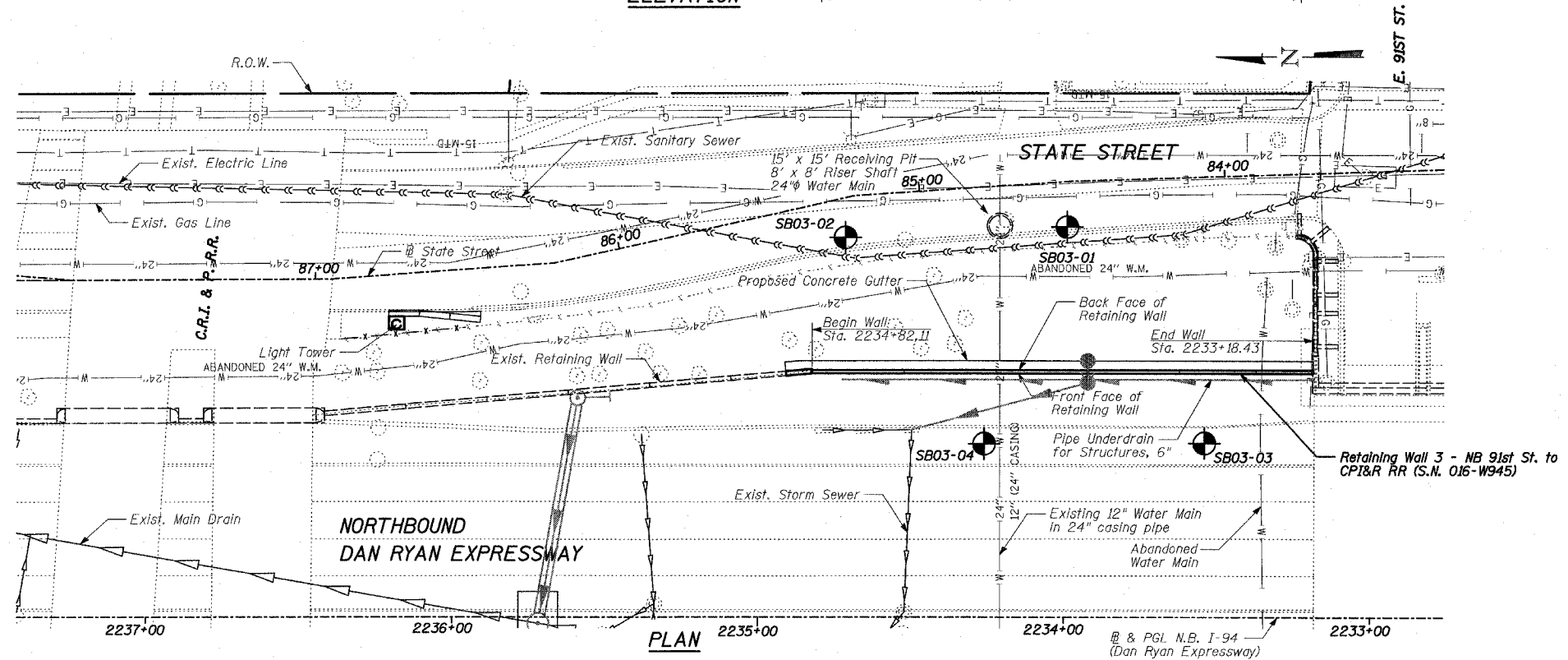
DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

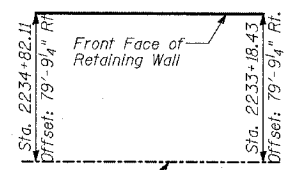
DESIGN STRESSES

FIELD UNITS

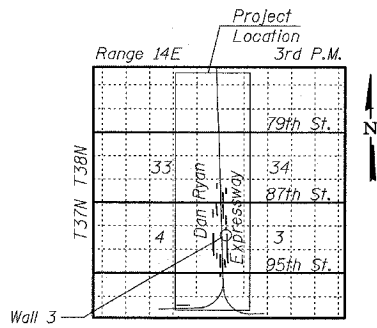
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)
 Solder Piles



PLAN



OFFSET SKETCH



LOCATION SKETCH

LEGEND
 Boring Location
 Measured along Front Face of Wall.

TYLIN INTERNATIONAL

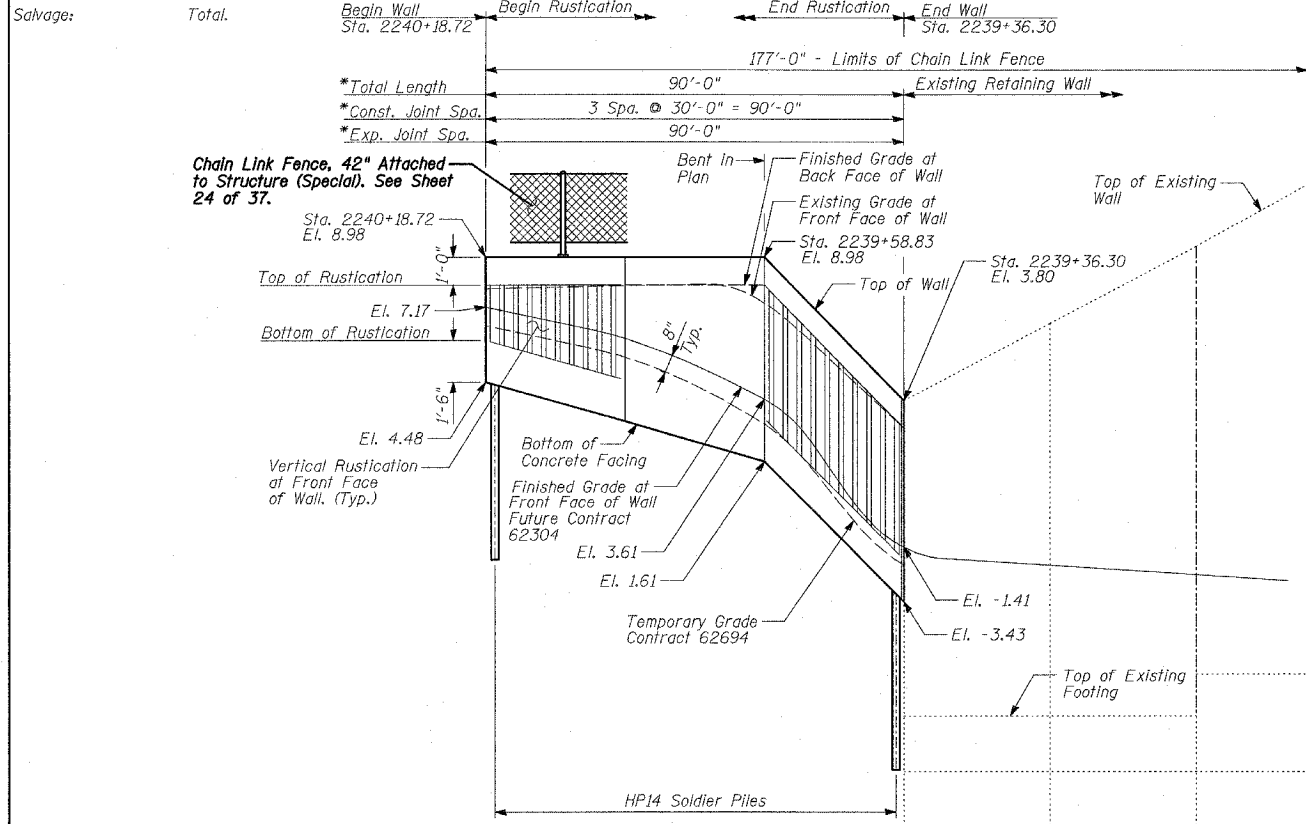
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
91ST ST. TO CPI&R RR
Wall 3 - GENERAL PLAN
STA. 2234+82.11 TO STA. 2233+18.43
 S.N. 016-W945
 DATE: APRIL 15, 2005
 DESIGNED BY: MI, MAF
 DRAWN BY: MAF, TB
 CHECKED BY: TD, MI

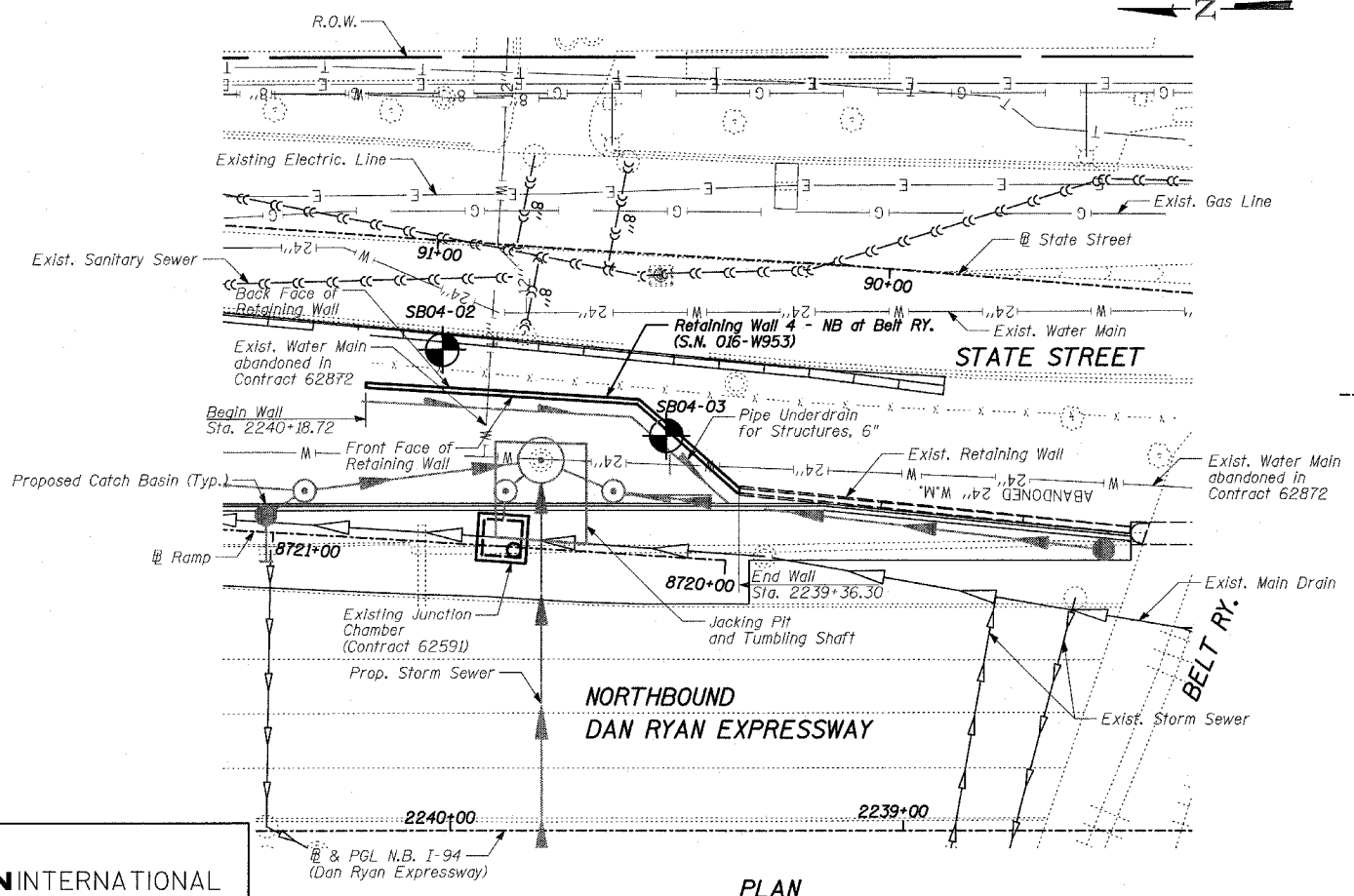
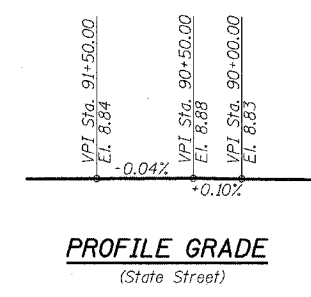
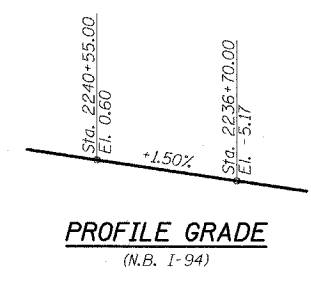
P:\0233\3\road\ref\paper\11r_3a_w945.dgn 04/13/2005 07:50:40 AM

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

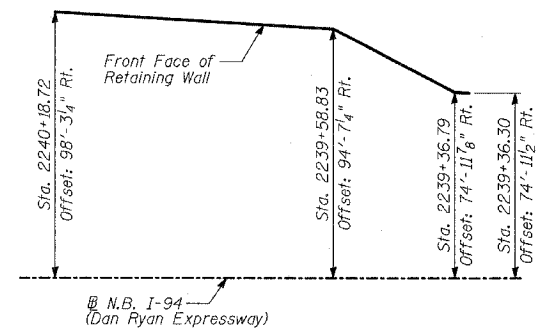
Existing Structure: Reinforced concrete cantilever retaining wall, supported on concrete spread footings, along Northbound Dan Ryan Built in 1960. Total length ±87'.



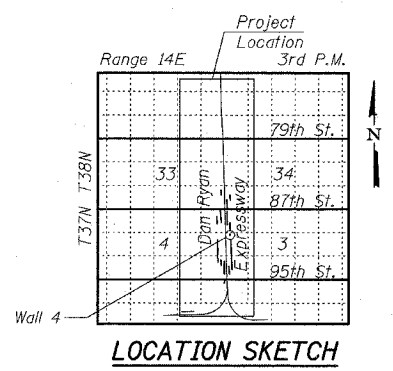
ELEVATION



PLAN



OFFSET SKETCH



LOCATION SKETCH

LEGEND
 Boring Location
 * Measured along Front Face of Wall.

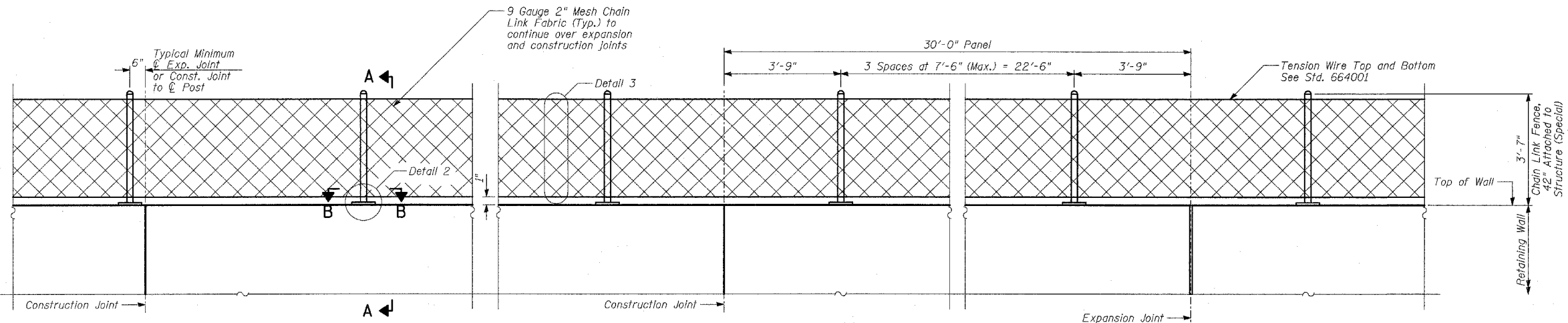
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	23
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		(1516.1, 1717 & 1818) I-3		62932

DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

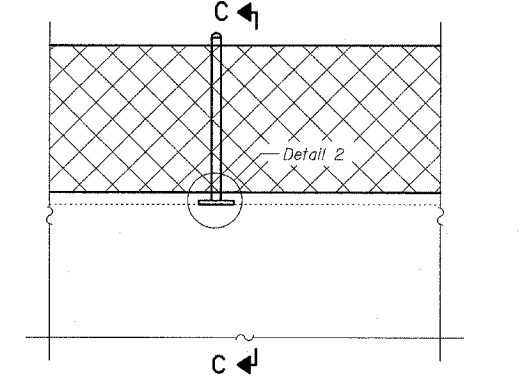
DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Soldier Piles

REVISIONS	
NAME	DATE

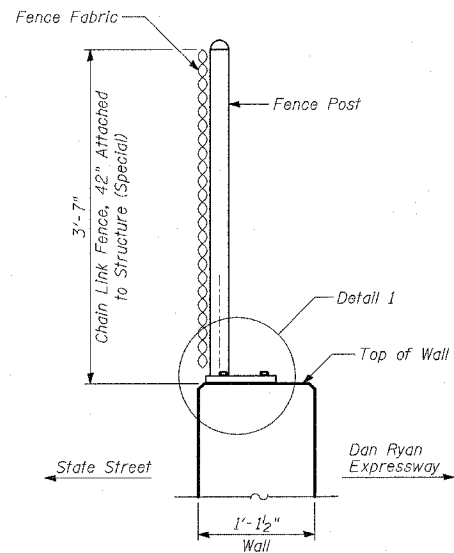
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST. AT BELT RY.
WALL 4 - GENERAL PLAN
STA. 2240+18.72 TO STA. 2239+36.30
 S.N. 016-W953 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, TB
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI



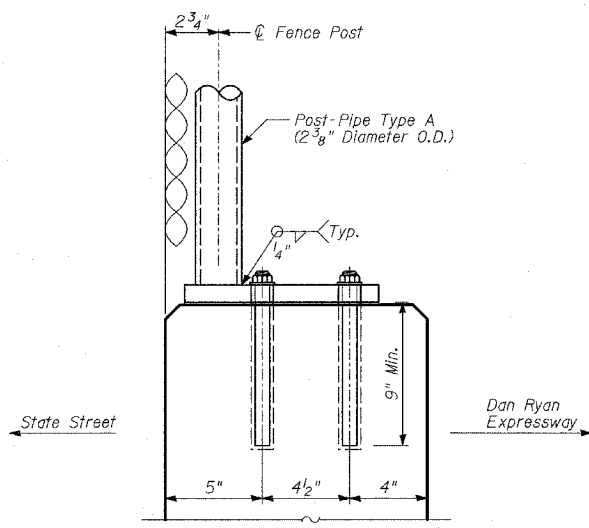
BACK FACE ELEVATION - TOP OF RETAINING WALL CHAIN LINK FENCE



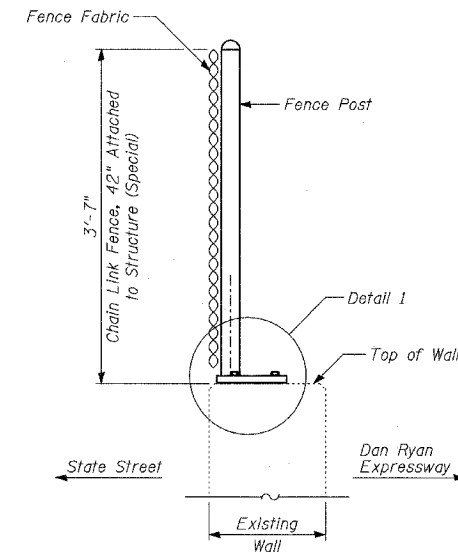
BACK FACE ELEVATION - TOP OF EXISTING RETAINING WALL CHAIN LINK FENCE



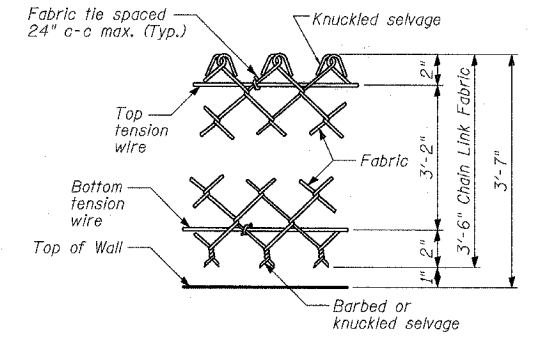
SECTION A-A



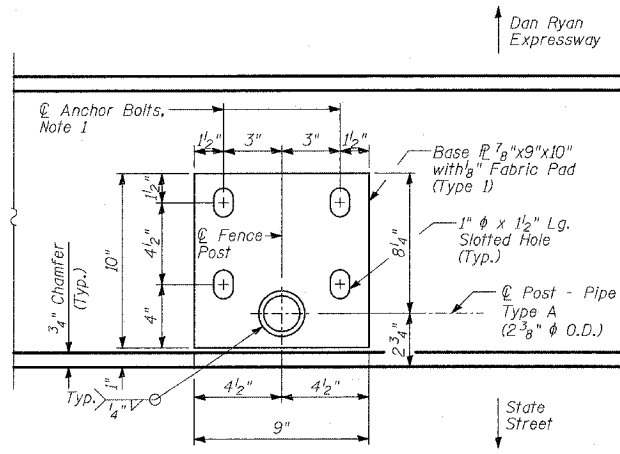
DETAIL 1



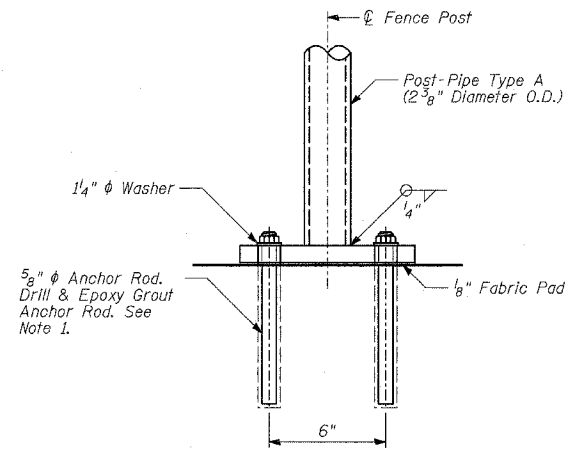
SECTION C-C



DETAIL 3



**SECTION B-B
BASE PLATE PLAN**



DETAIL 2

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
3	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	324
4	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	177
	Total	FOOT	501

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

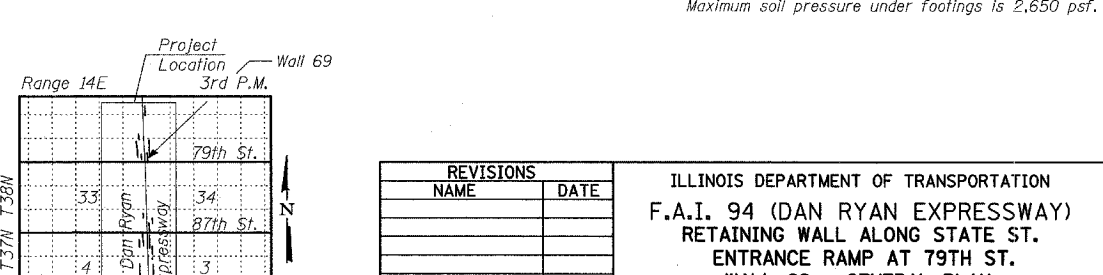
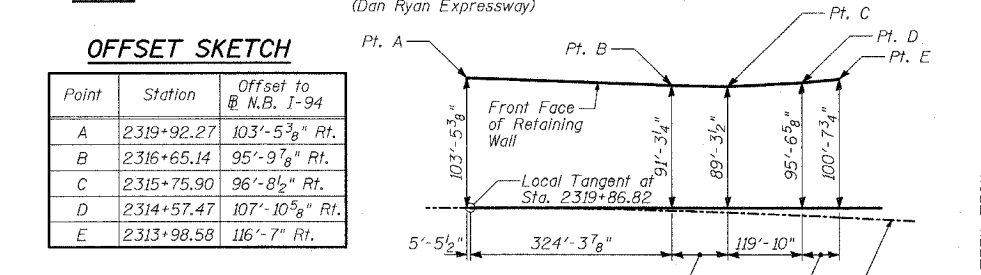
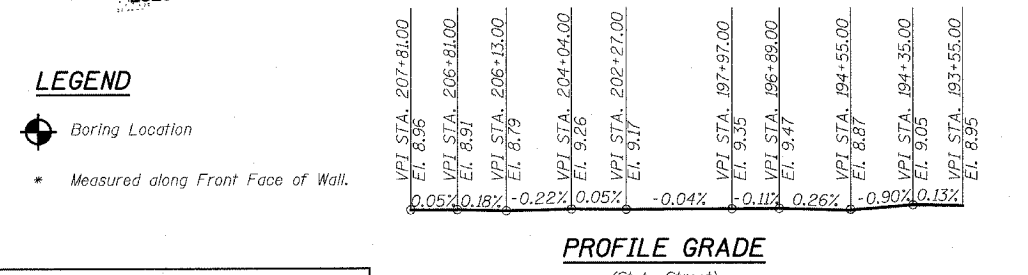
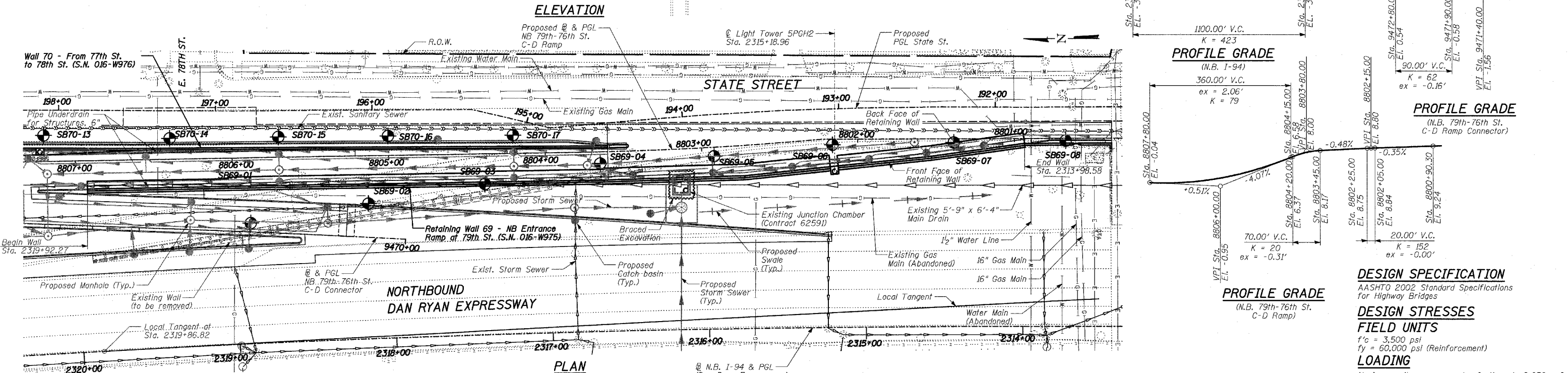
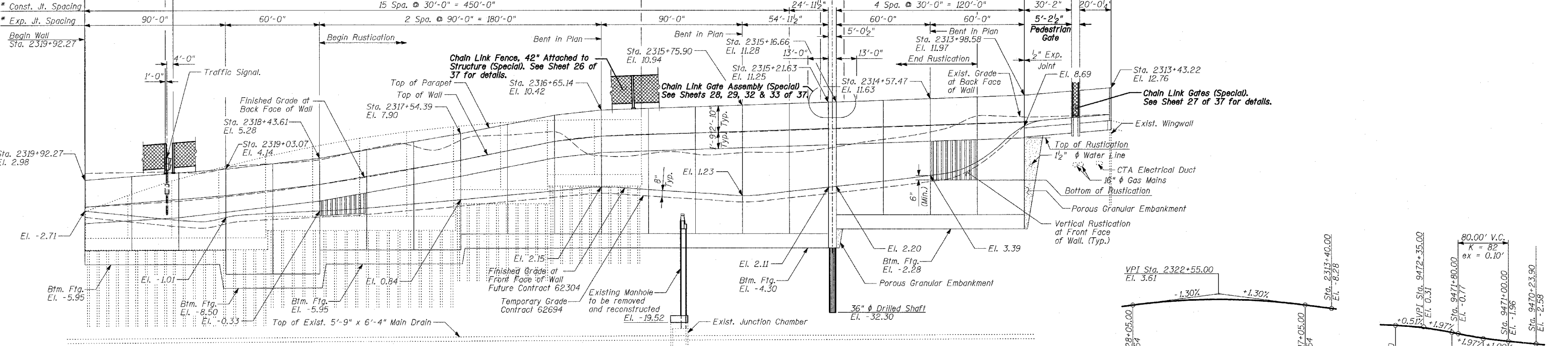
TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 91ST ST. TO CPI&R RR
 WALLS 3 & 4 - CHAIN LINK FENCE,
 42" ATTACHED TO STRUCTURE (SPECIAL)

SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, MAF
 DRAWN BY: MAF, DJR
 CHECKED BY: TD, MI



LEGEND
 Boring Location
 * Measured along Front Face of Wall.

OFFSET SKETCH

Point	Station	Offset to N.B. I-94
A	2319+92.27	103'-5 3/8" Rt.
B	2316+65.14	95'-9 7/8" Rt.
C	2315+75.90	96'-8 1/2" Rt.
D	2314+57.47	107'-10 5/8" Rt.
E	2313+98.58	116'-7" Rt.

PROFILE GRADE (State Street)

VPI Sta.	Elevation
207+81.00	8.96
206+81.00	8.91
206+13.00	8.79
204+04.00	9.26
202+27.00	9.17
197+97.00	9.35
196+89.00	9.47
194+55.00	8.87
194+35.00	9.05
193+55.00	8.95

DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

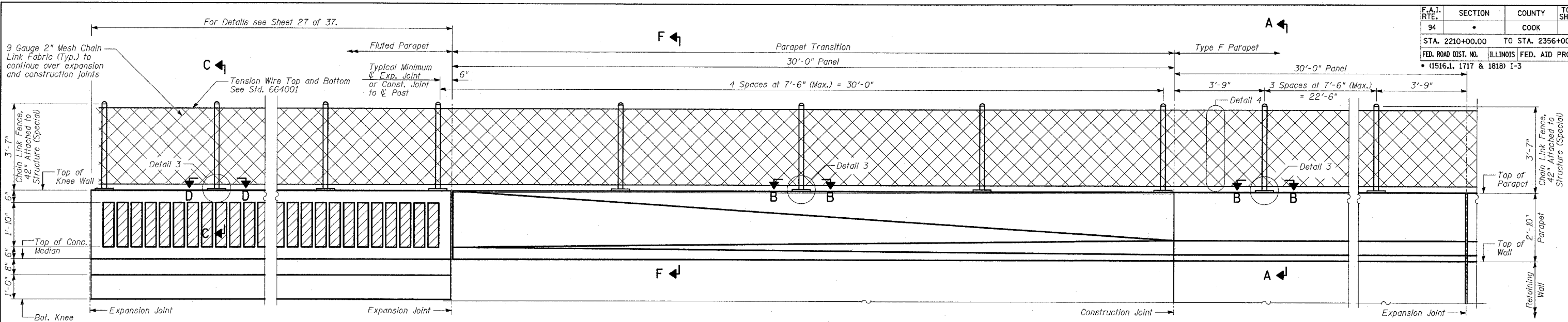
DESIGN STRESSES
 FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 ALLOWING
 Maximum soil pressure under footings is 2,650 psf.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP AT 79TH ST.
 WALL 69 - GENERAL PLAN
 STA. 2319+92.27 TO STA. 2313+98.58
 S.N. 016-W975 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, PAL
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

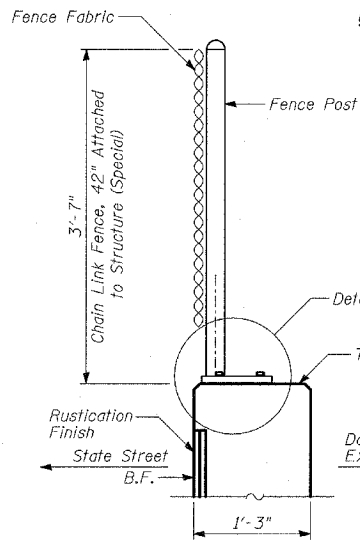
TYLIN INTERNATIONAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	26
STA. 2210+00.00		TO STA. 2356+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62932
(1516.1, 1717 & 1818) I-3				

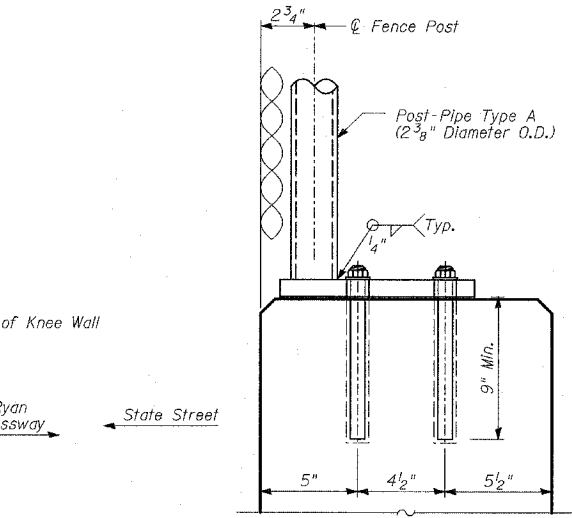


BACK FACE ELEVATION
KNEE WALL, FLUTED KNEE WALL, TRANSITION AND CHAIN LINK FENCE

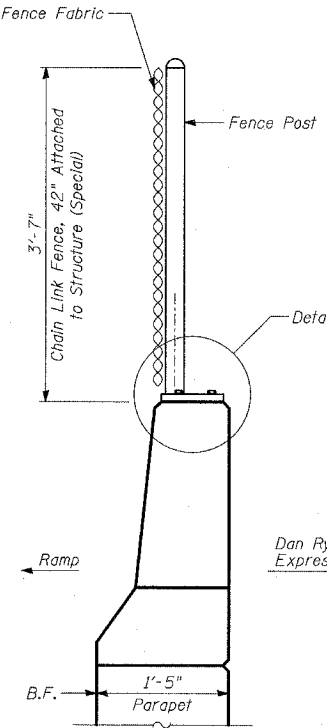
BACK FACE ELEVATION - TOP OF RETAINING WALLS
TYPE F PARAPET AND CHAIN LINK FENCE



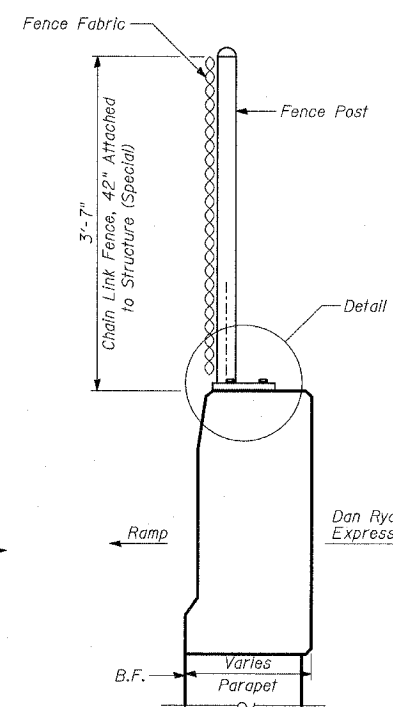
SECTION C-C



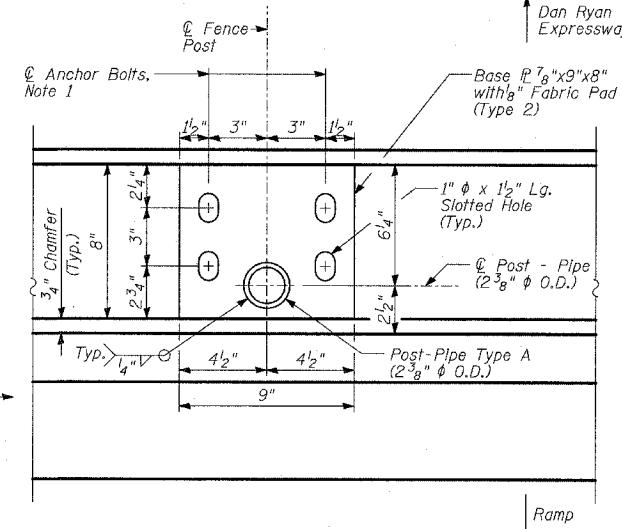
DETAIL 1



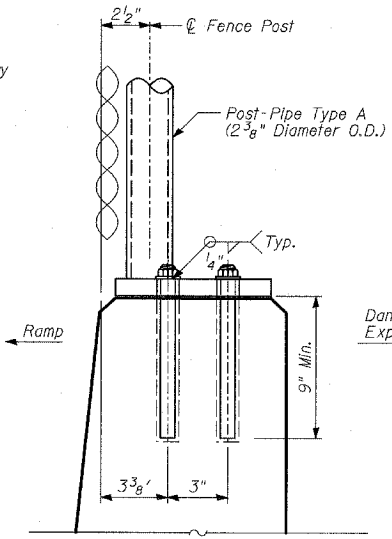
SECTION A-A



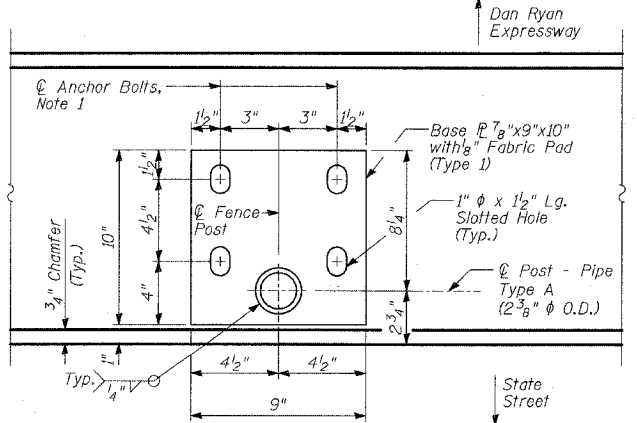
SECTION F-F



SECTION B-B
BASE PLATE PLAN



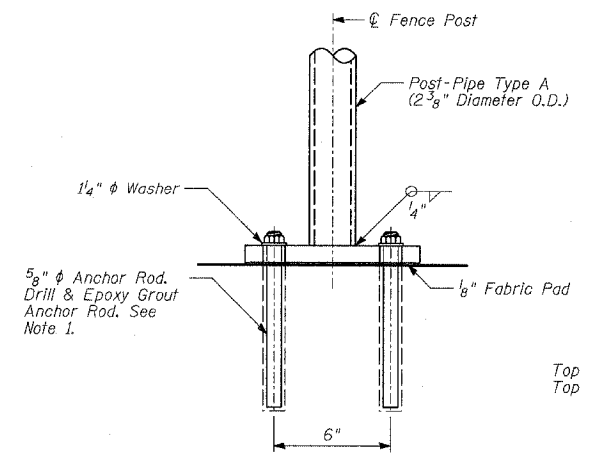
DETAIL 2



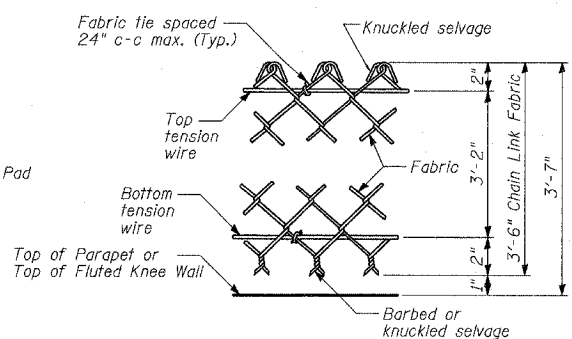
SECTION D-D
BASE PLATE PLAN

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.



DETAIL 3



DETAIL 4

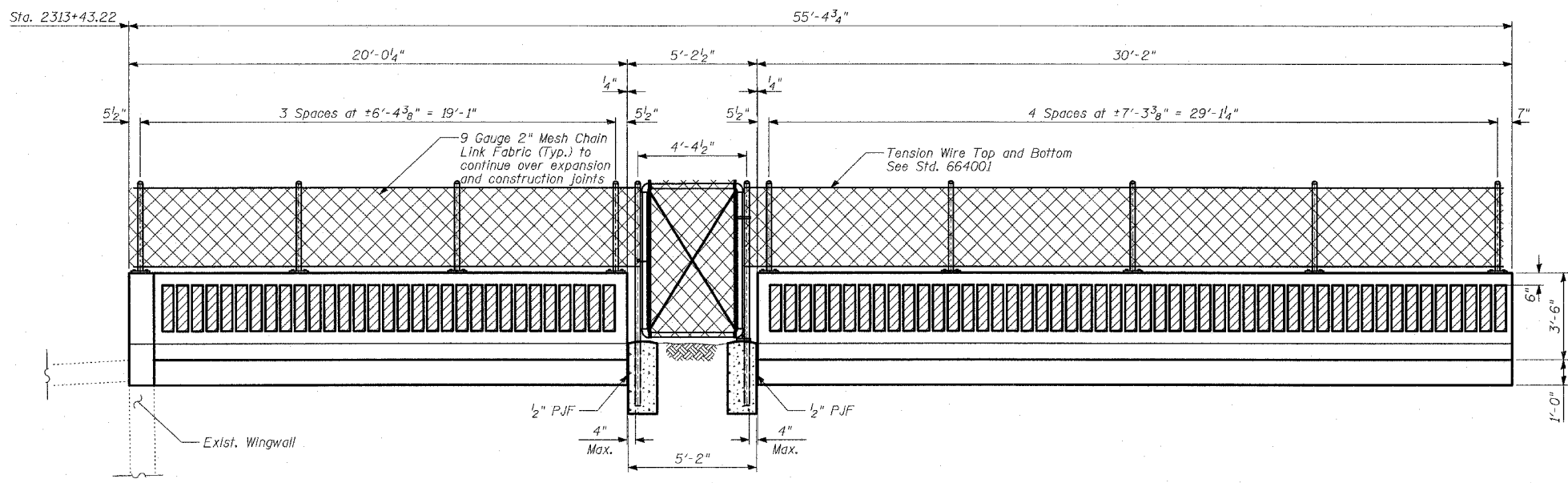
BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
69	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	631

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP AT 79TH ST.
WALL 69 - CHAIN LINK FENCE,
42" ATTACHED TO STRUCTURE (SPECIAL)
 DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 CHECKED BY: TD, MI

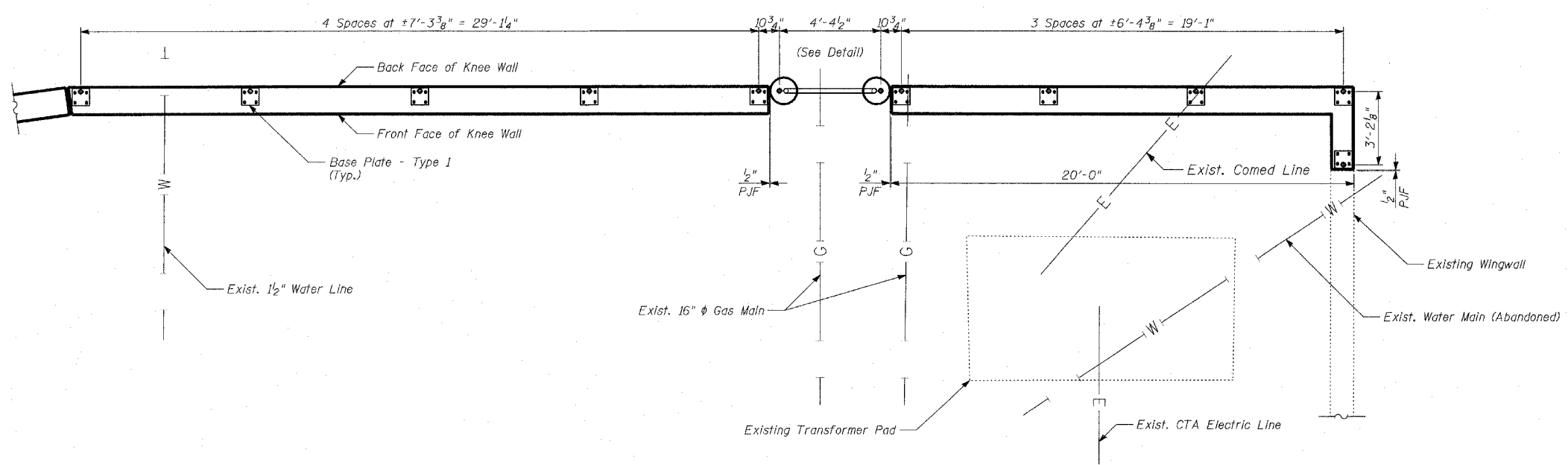
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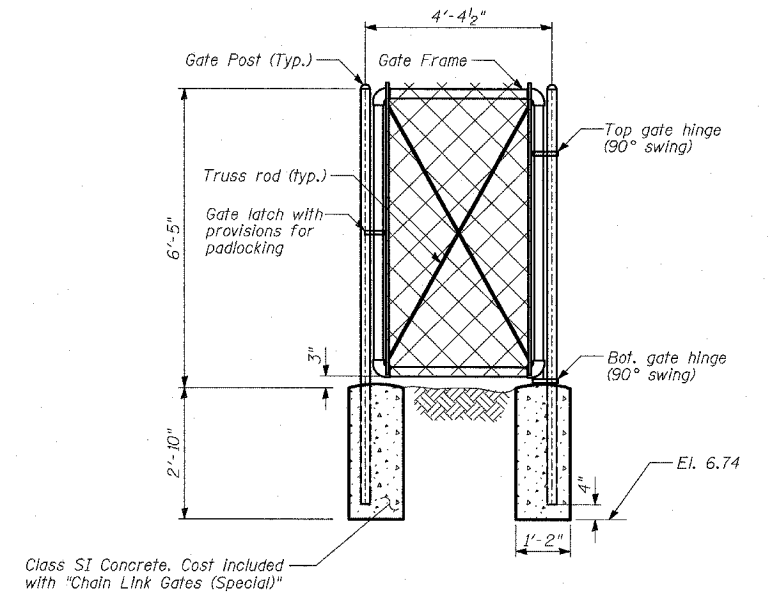
BACK FACE ELEVATION - TOP OF FLUTED KNEE WALL

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
69	Chain Link Gates (Special)	EACH	1



PLAN



PEDESTRIAN GATE

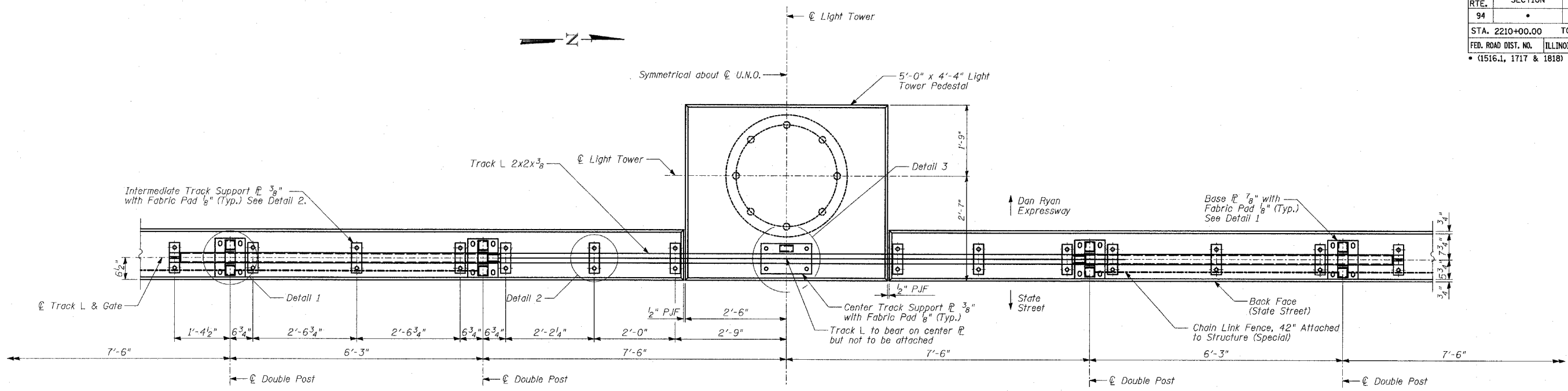
NOTES:
 1. Work this sheet with Sheets 25, 26, 28, 29, 32 and 33 of 37.

TYLIN INTERNATIONAL

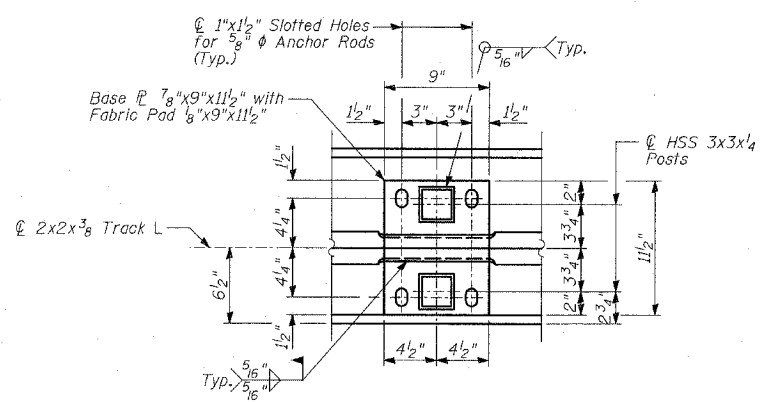
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP AT 79TH ST.
 WALL 69 - CHAIN LINK GATES (SPECIAL)
 DESIGNED BY: MI, MAF
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DRAWN BY: MAF
 CHECKED BY: TD, MI

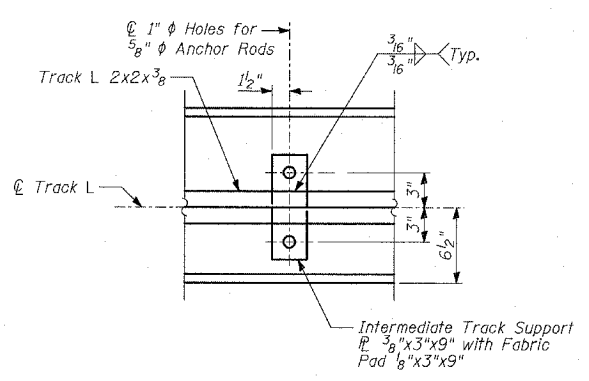
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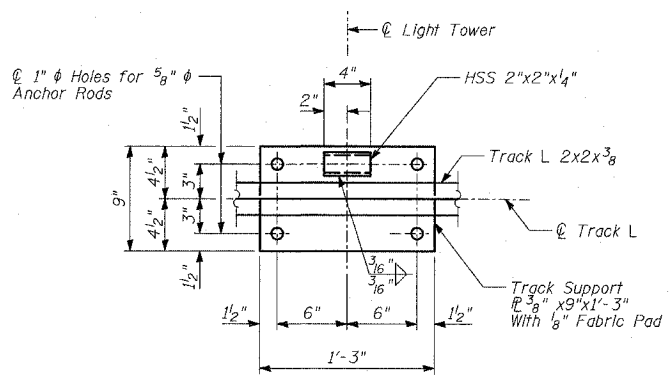
PLAN - GATE IN OPEN POSITION



DETAIL 1 - BASE P PLAN



DETAIL 2



DETAIL 3

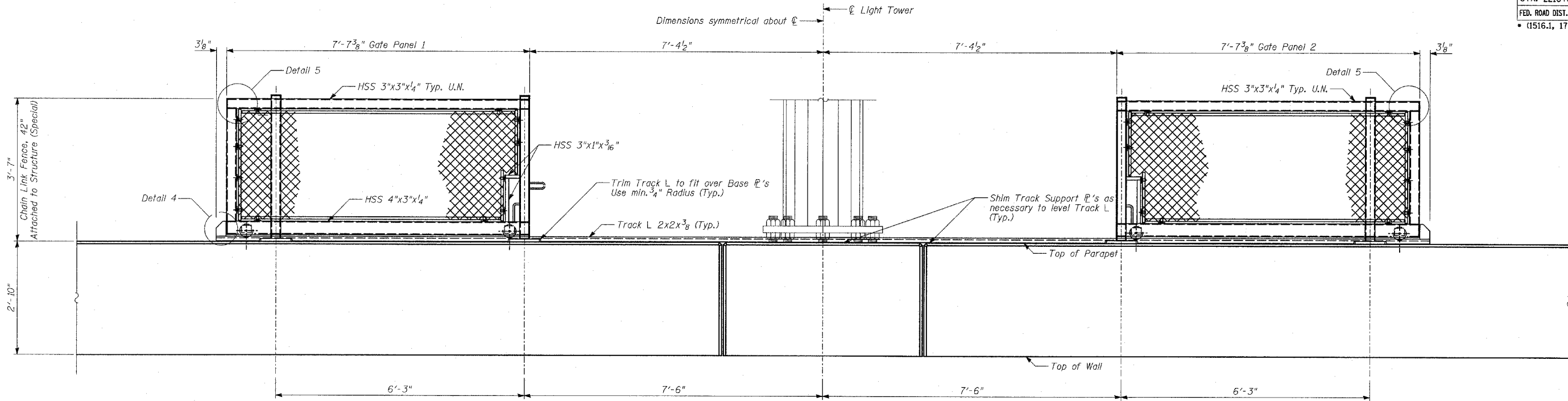
BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
2B	Chain Link Gate Assembly (Special)	EACH	3
AIS1	Chain Link Gate Assembly (Special)	EACH	1
6	Chain Link Gate Assembly (Special)	EACH	1
69	Chain Link Gate Assembly (Special)	EACH	1
70	Chain Link Gate Assembly (Special)	EACH	2
AIS2	Chain Link Gate Assembly (Special)	EACH	2
	Total	EACH	10

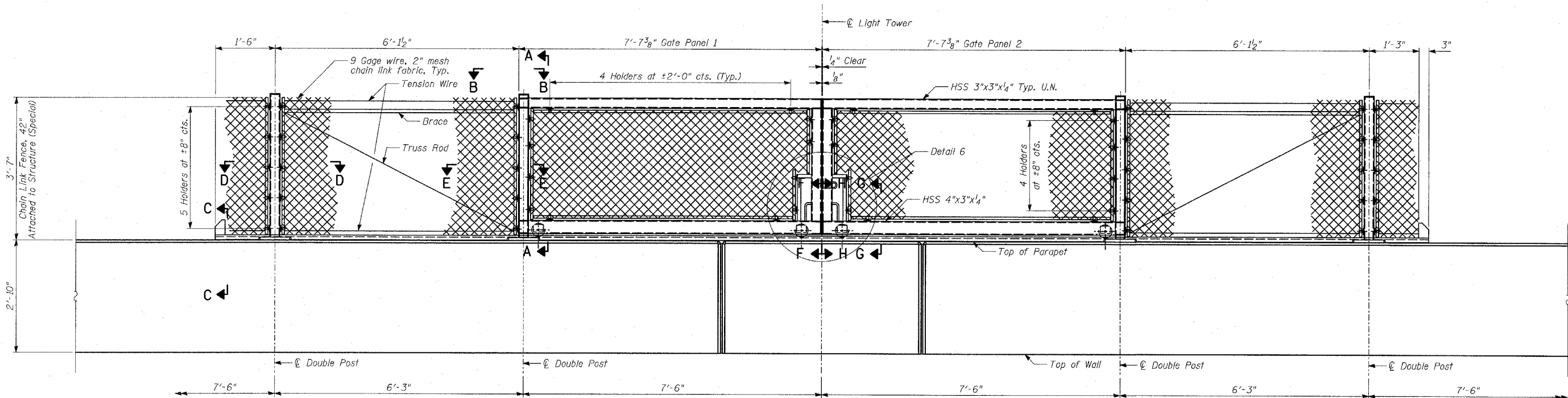
- NOTES:**
- All rods shall be stainless steel conforming to ASTM F593-98 and F594-98.
 - All pipes and bars shall be hot dipped galvanized after fabrication.
 - For Back Face Elevations, see Sheet 29 of 37.
 - For Anchor Rod Details, see Sheets 30 & 32 of 37.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 93RD ST. TO 91ST ST.
 WALLS 2B, AIS1, 6, 69, 70 & AIS2
 GATE PLAN AND NOTES
 DESIGNED BY: MI, DJR
 DRAWN BY: DJR, MAF
 CHECKED BY: TD, MI
 SCALE: N.T.S.
 DATE: APRIL 15, 2005



BACK FACE ELEVATION - GATE IN OPEN POSITION



BACK FACE ELEVATION - GATE IN CLOSED POSITION

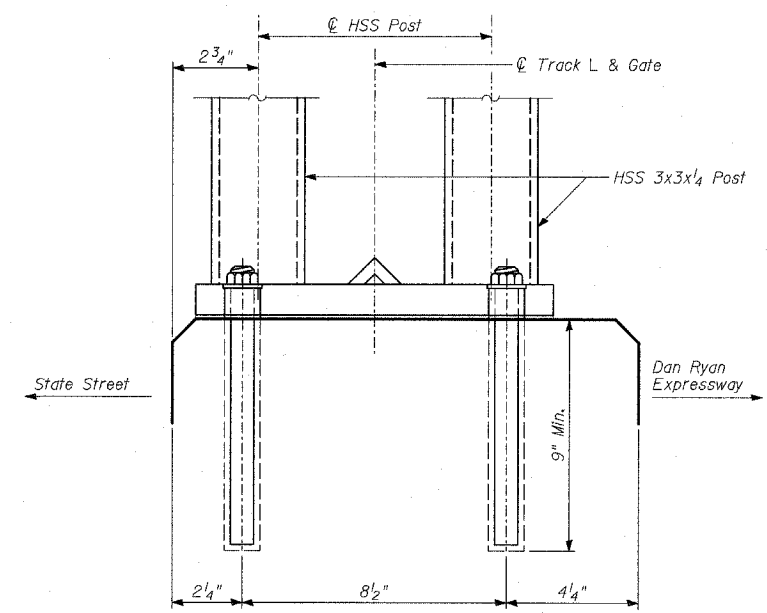
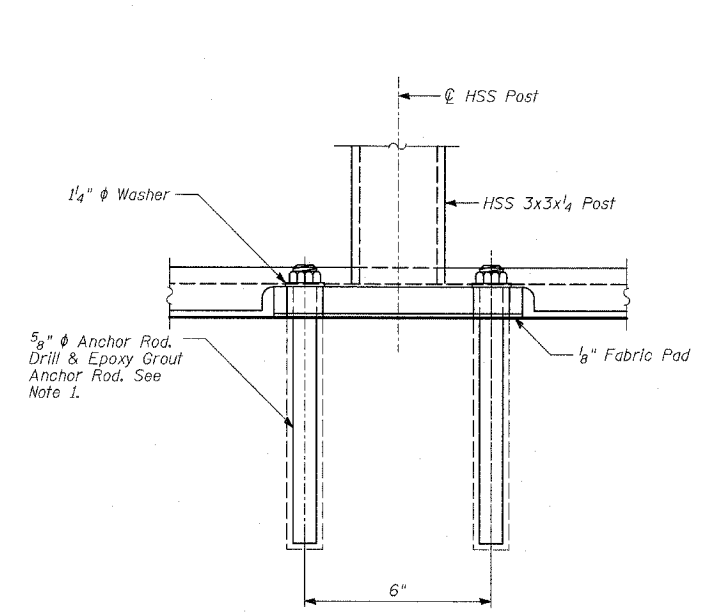
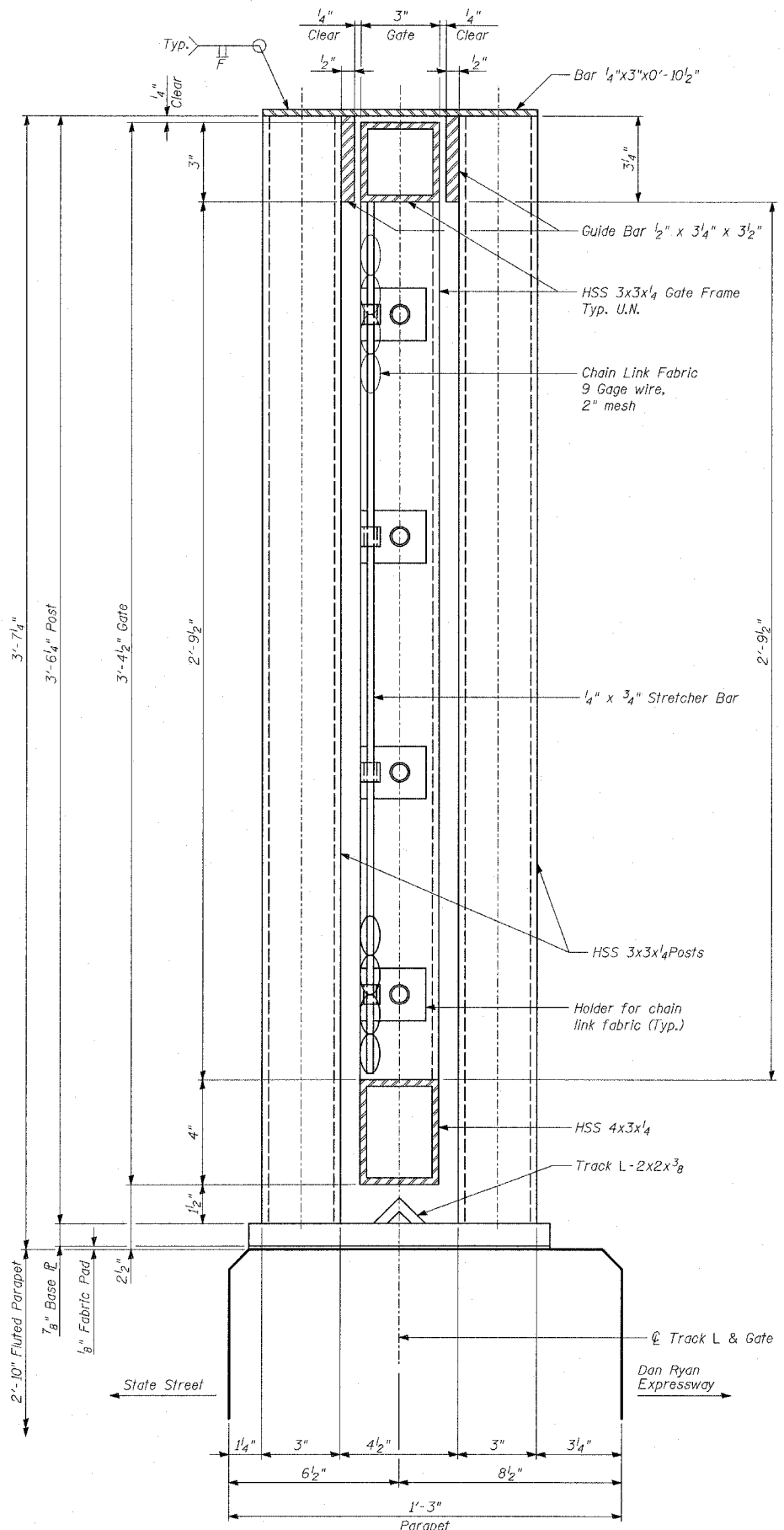
NOTES:

- For notes, see Sheet 28 of 37.
- For Sections A-A, B-B, D-D & E-E, see Sheets 30 and 32 of 37.
- For Sections C-C, F-F, G-G, H-H, J-J and Details 4, 5, 6 & 7, see Sheets 31 and 33 of 37.

REVISIONS	
NAME	DATE

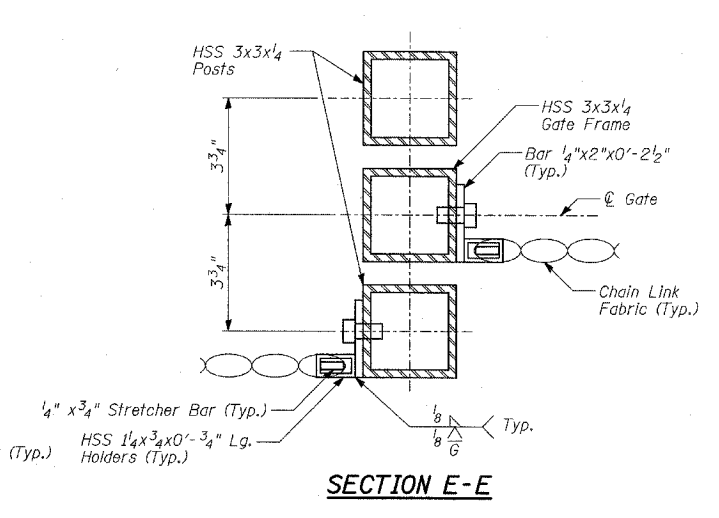
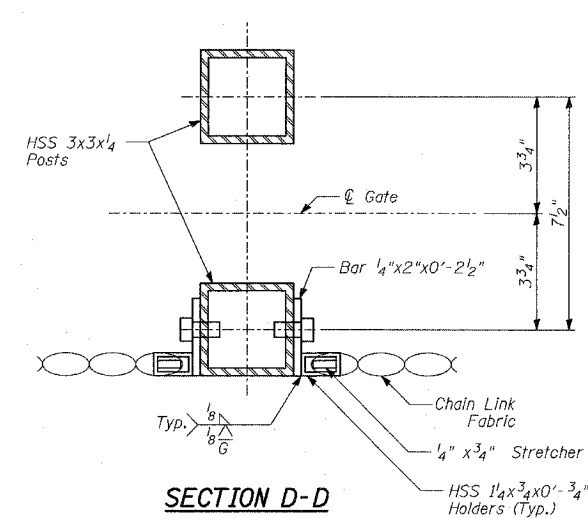
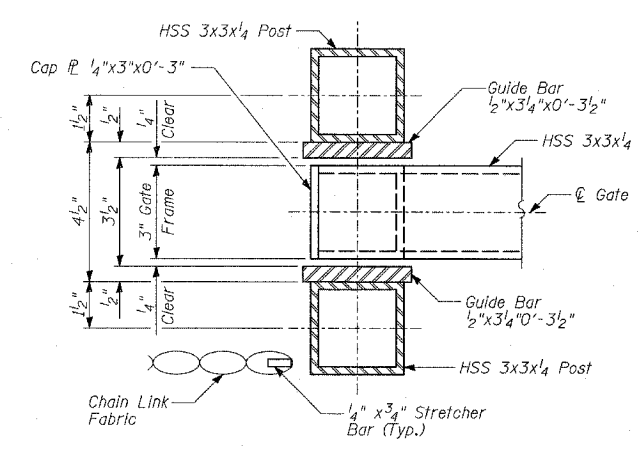
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP AT 79TH ST.
 WALLS 2B, AIS1, 6, 69, 70 & AIS2
 GATE ELEVATIONS

DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI
 SCALE: N.T.S.
 DATE: APRIL 15, 2005



ANCHOR ROD DETAILS

The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed. See details 2 & 3 on sheet 28 of 37 for anchor rod spacing.



SECTION B-B

SECTION D-D

SECTION E-E

- NOTES:**
- For Notes See Sheet 28 of 37.
 - For Anchor Rod locations, see Details 1, 2 & 3 on Sheet 28 of 37.

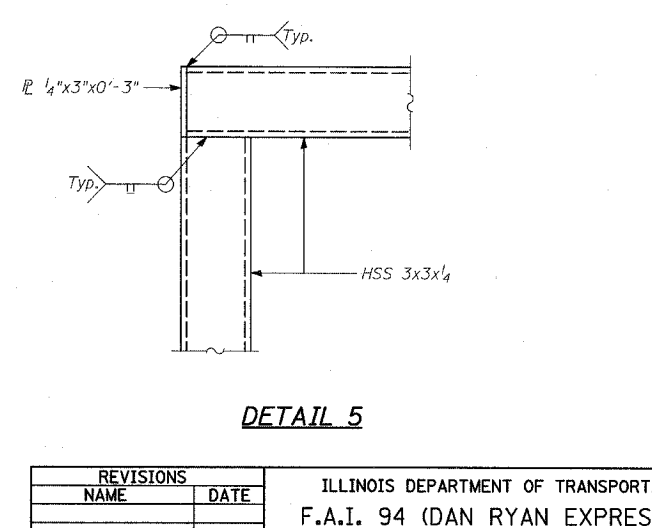
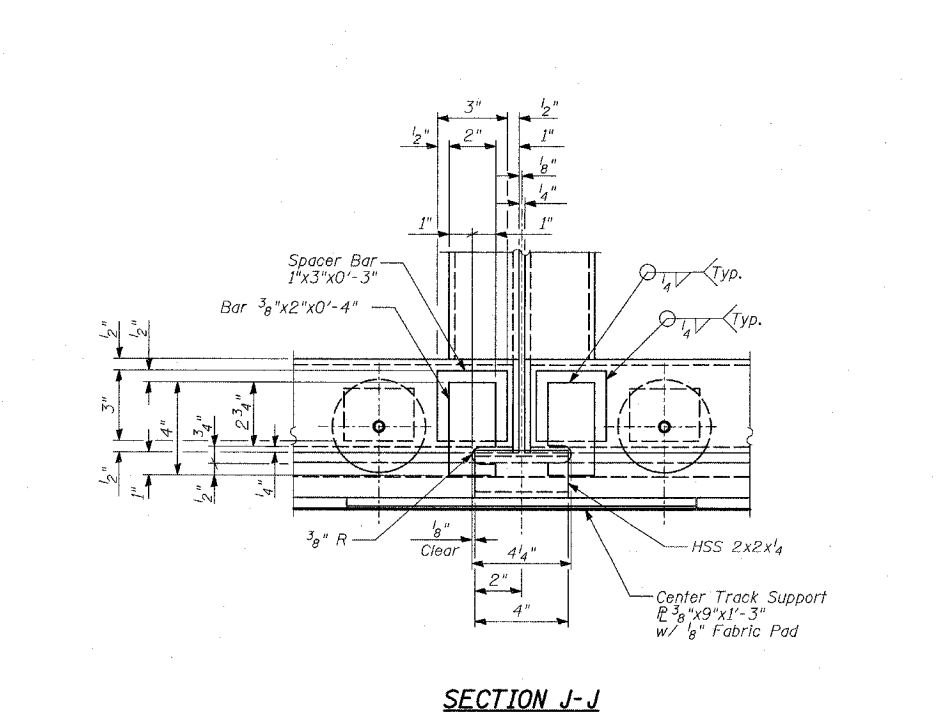
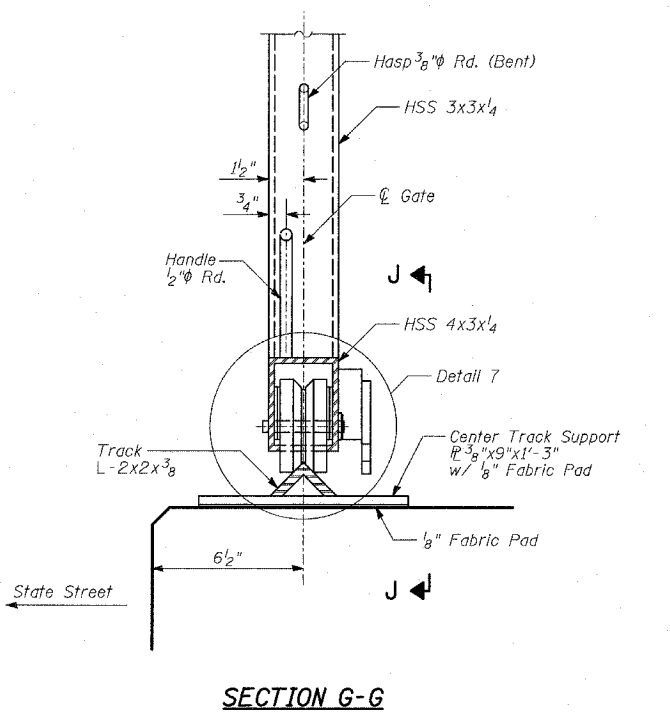
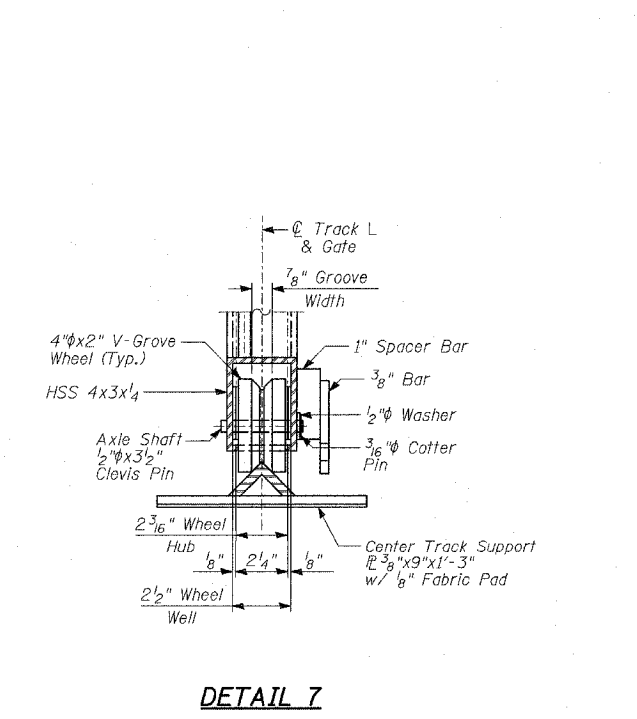
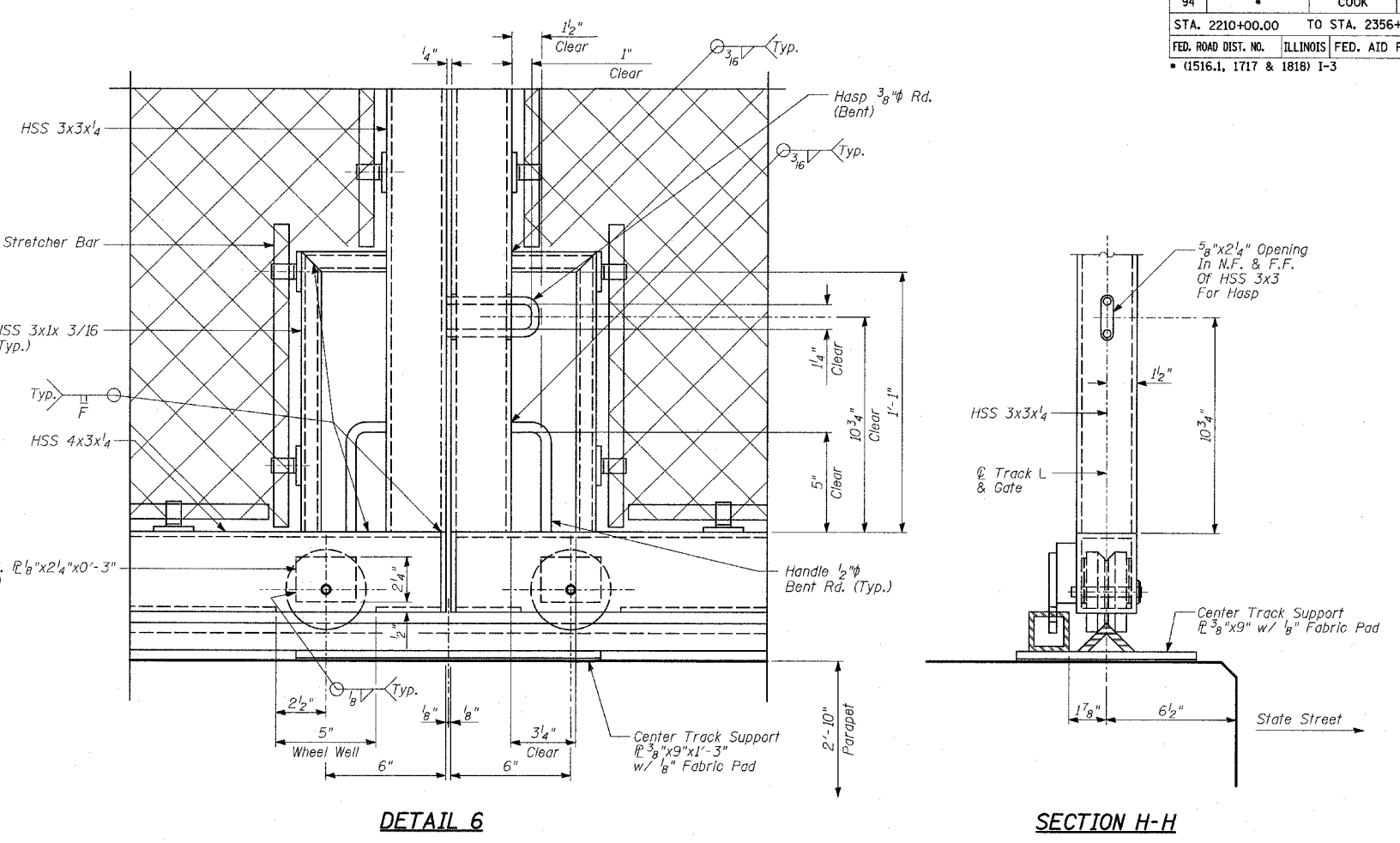
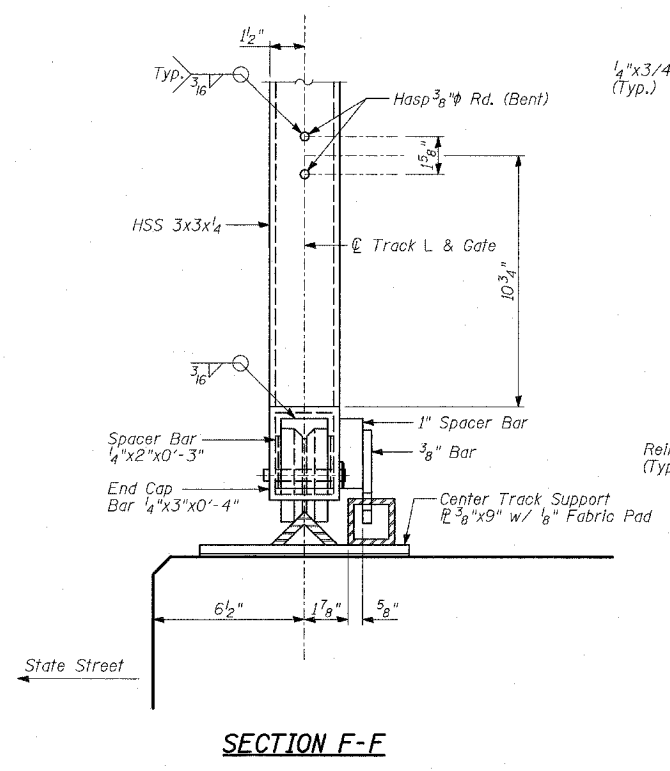
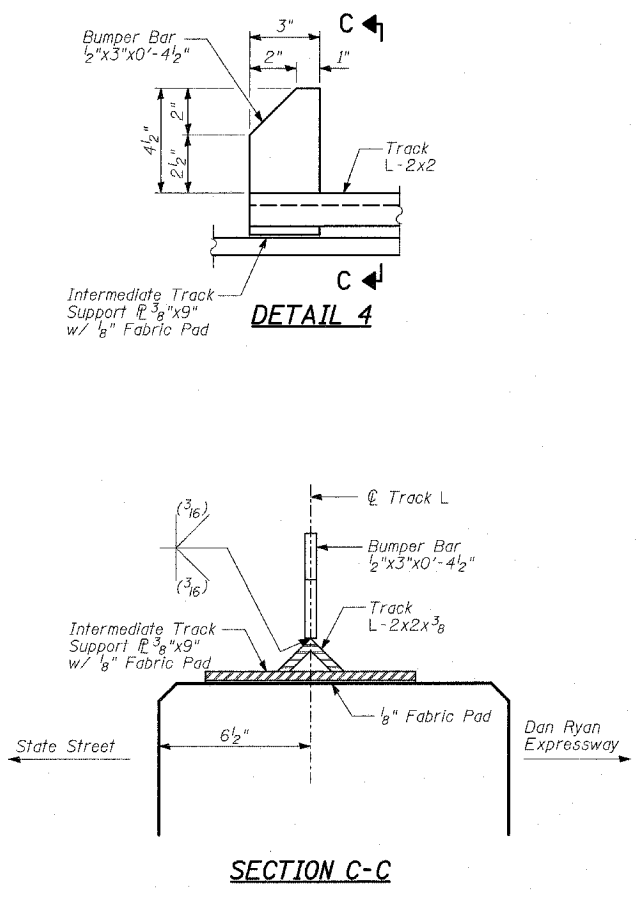
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
93RD ST. TO 91ST ST.
WALLS 2B & 6
GATE SECTIONS

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, MAF
 CHECKED BY: TD, MI

SCALE: N.T.S.
 DATE: APRIL 15, 2005

SECTION A-A



- NOTES:**
1. For notes, see Sheet 28 of 37.
 2. For Anchor Rod locations, see Sheet 28 of 37.
 3. For Anchor Rod details, see Sheet 30 of 37.
 4. N.F. - denotes Near Face.
 5. F.F. - denotes Far Face.

REVISIONS	
NAME	DATE

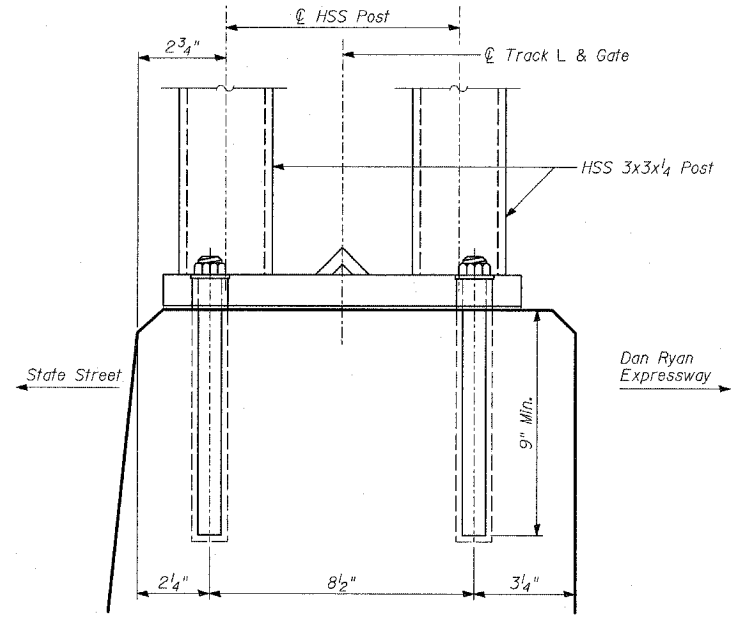
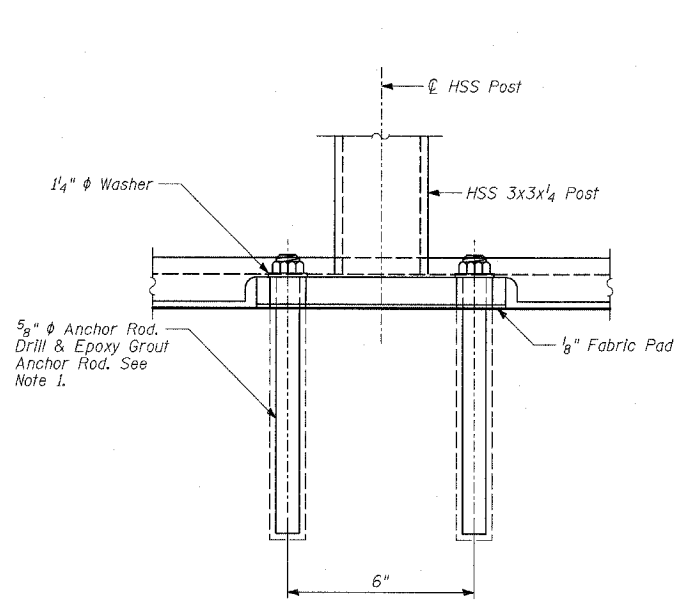
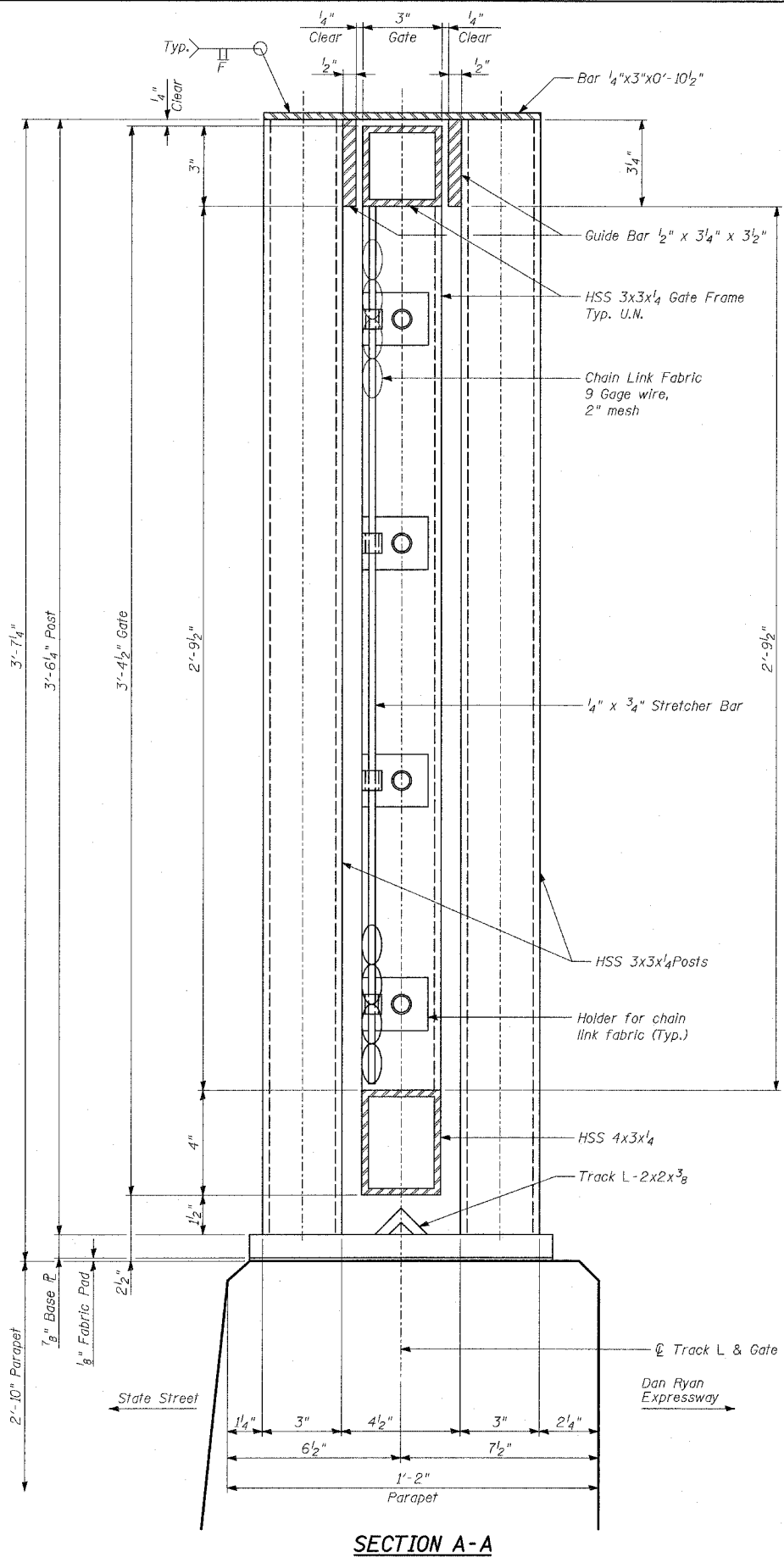
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 93RD ST. TO 91ST ST.
 WALLS 2B & 6
 GATE SECTIONS AND DETAILS

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, MAF
 CHECKED BY: TD, MI

SCALE: N.T.S.
 DATE: APRIL 15, 2005

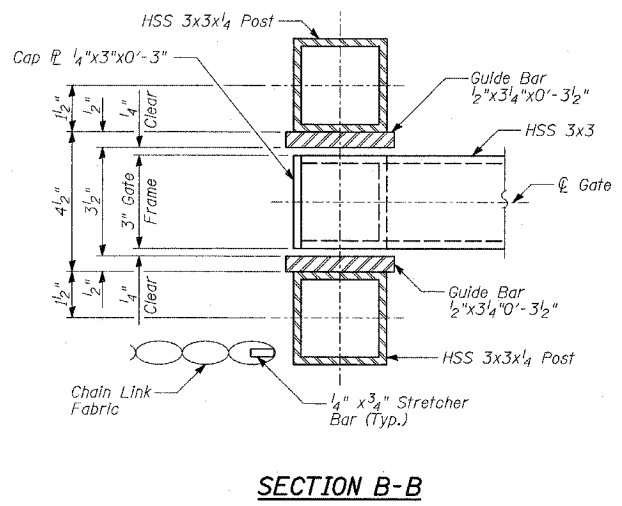
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	37	32
STA. 2210+00.00		TO STA. 2356+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) I-3		62932		

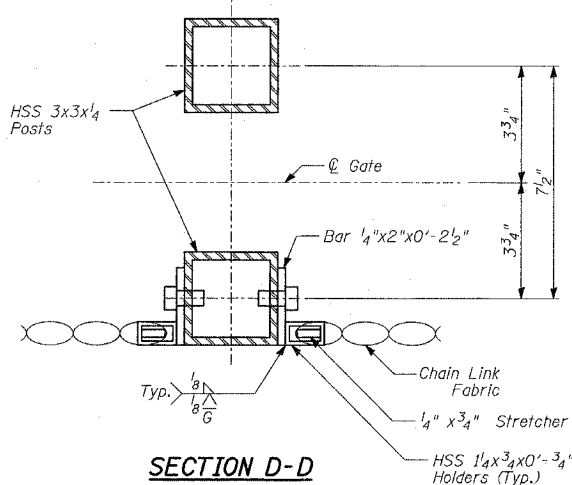


ANCHOR ROD DETAILS

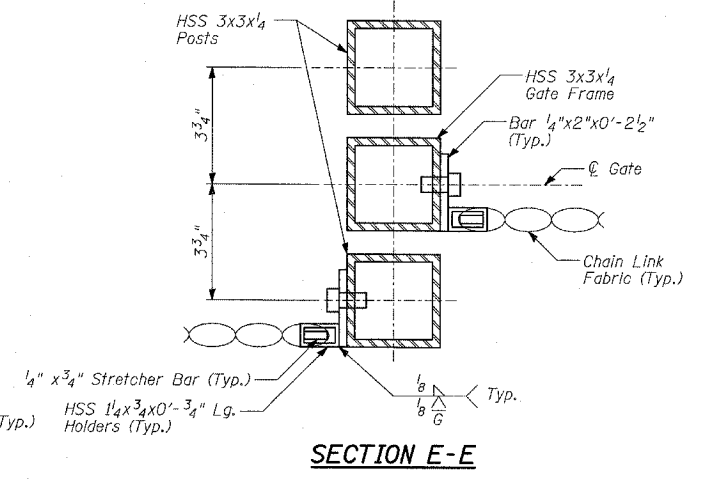
The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed. See details 2 & 3 on sheet 28 of 37 for anchor rod spacing.



SECTION B-B



SECTION D-D



SECTION E-E

- NOTES:**
- For Notes See Sheet 28 of 37.
 - For Anchor Rod locations, see Details 1, 2 & 3 on Sheet 28 of 37.

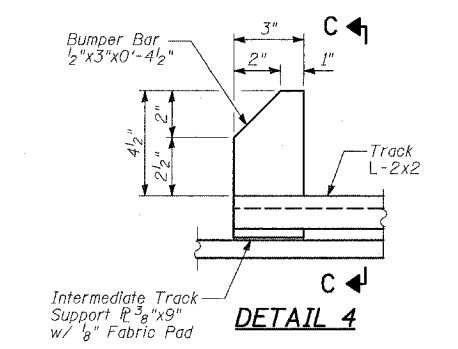
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
ENTRANCE RAMP AT 79TH ST.
WALLS AIS1, 69, 70 & AIS2
GATE SECTIONS

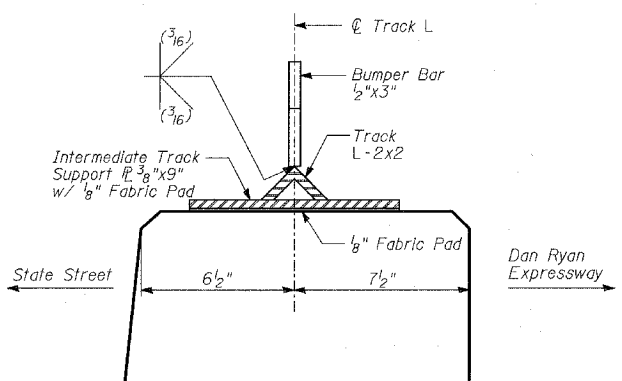
DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI

SCALE: N.T.S.
 DATE: APRIL 15, 2005

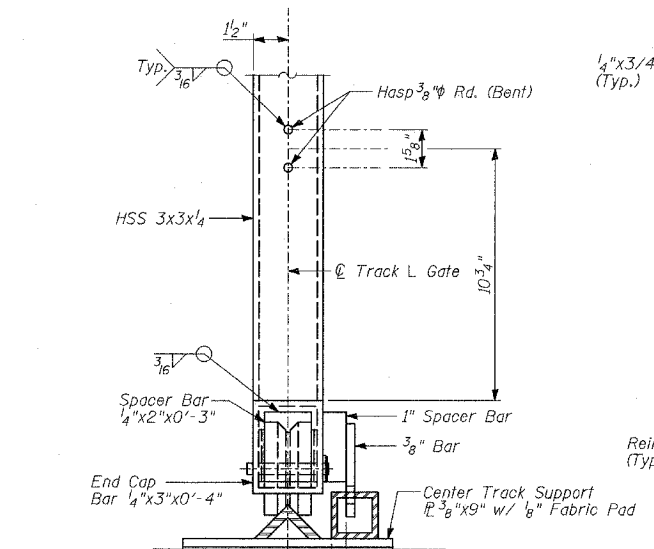
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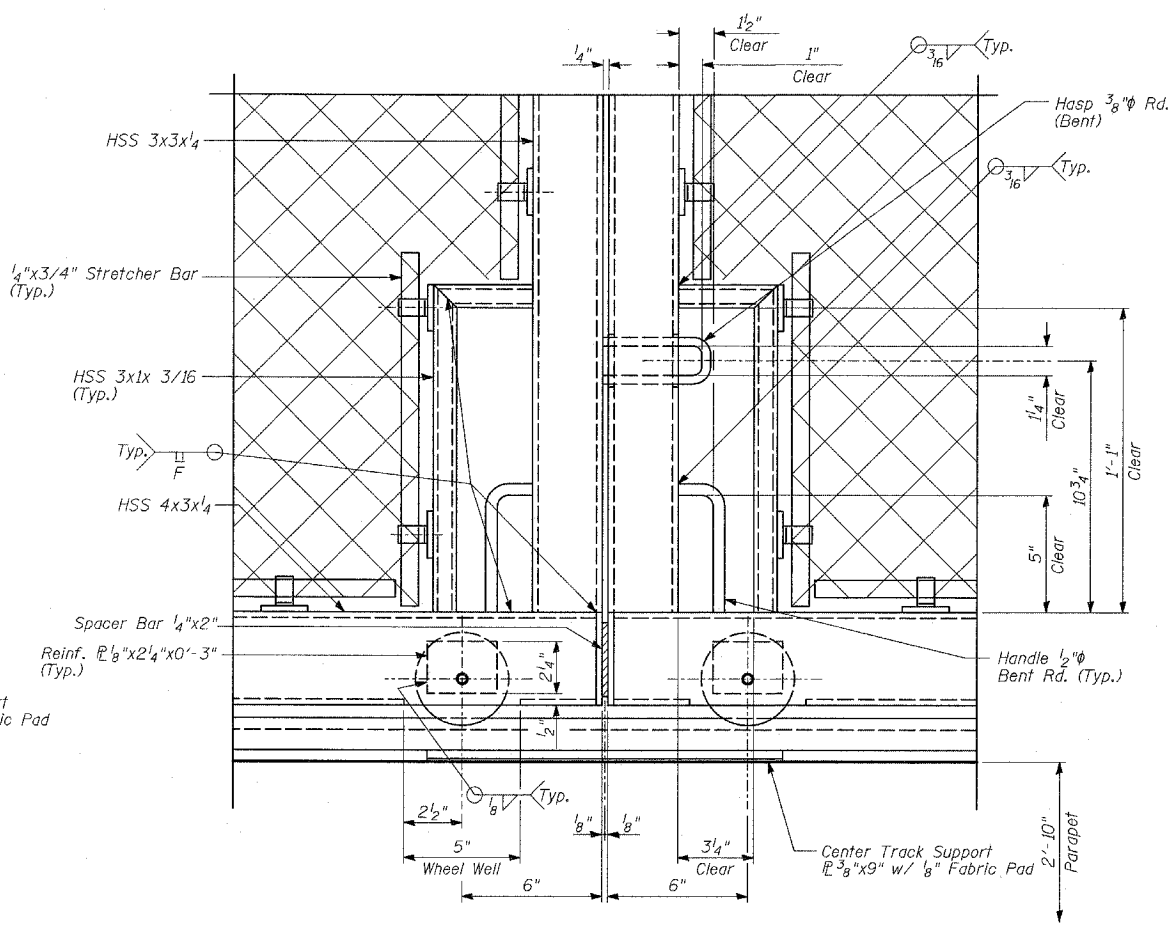
DETAIL 4



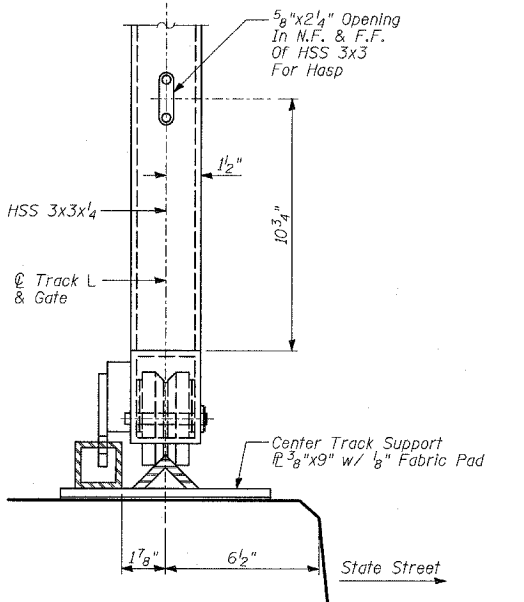
SECTION C-C



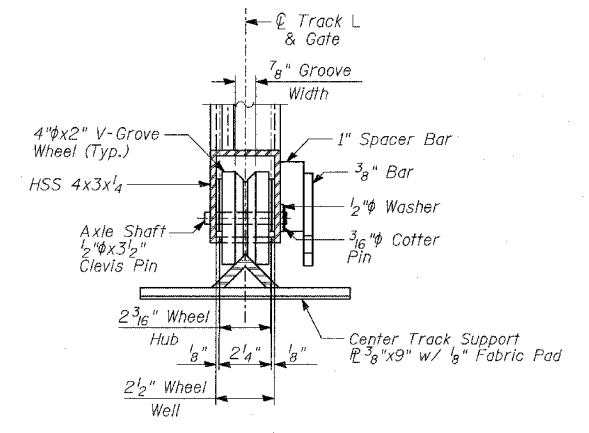
SECTION F-F



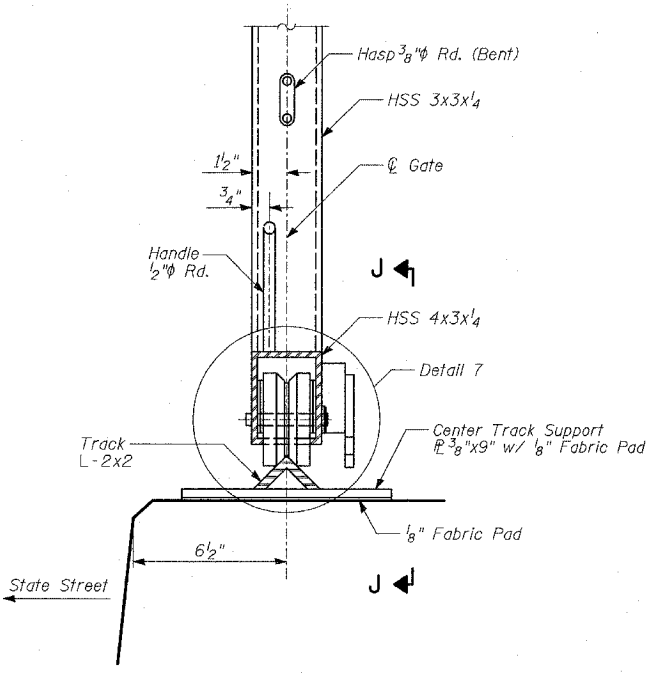
DETAIL 6



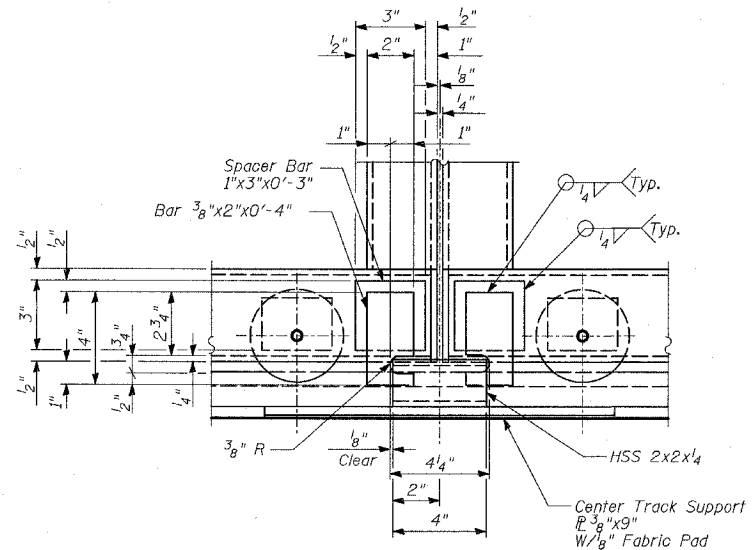
SECTION H-H



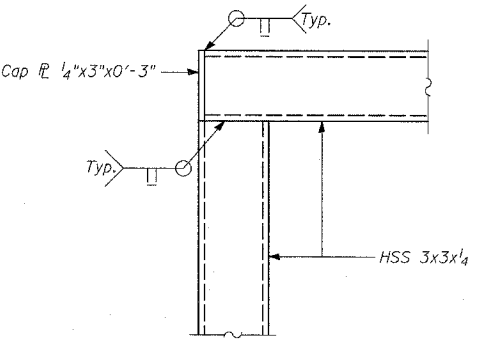
DETAIL 7



SECTION G-G



SECTION J-J



DETAIL 5

- NOTES:**
1. For notes, see Sheet 28 of 37.
 2. For Anchor Rod locations, see Sheet 28 of 37.
 3. For Anchor Rod details, see Sheet 32 of 37.
 4. N.F. - denotes Near Face.
 5. F.F. - denotes Far Face.

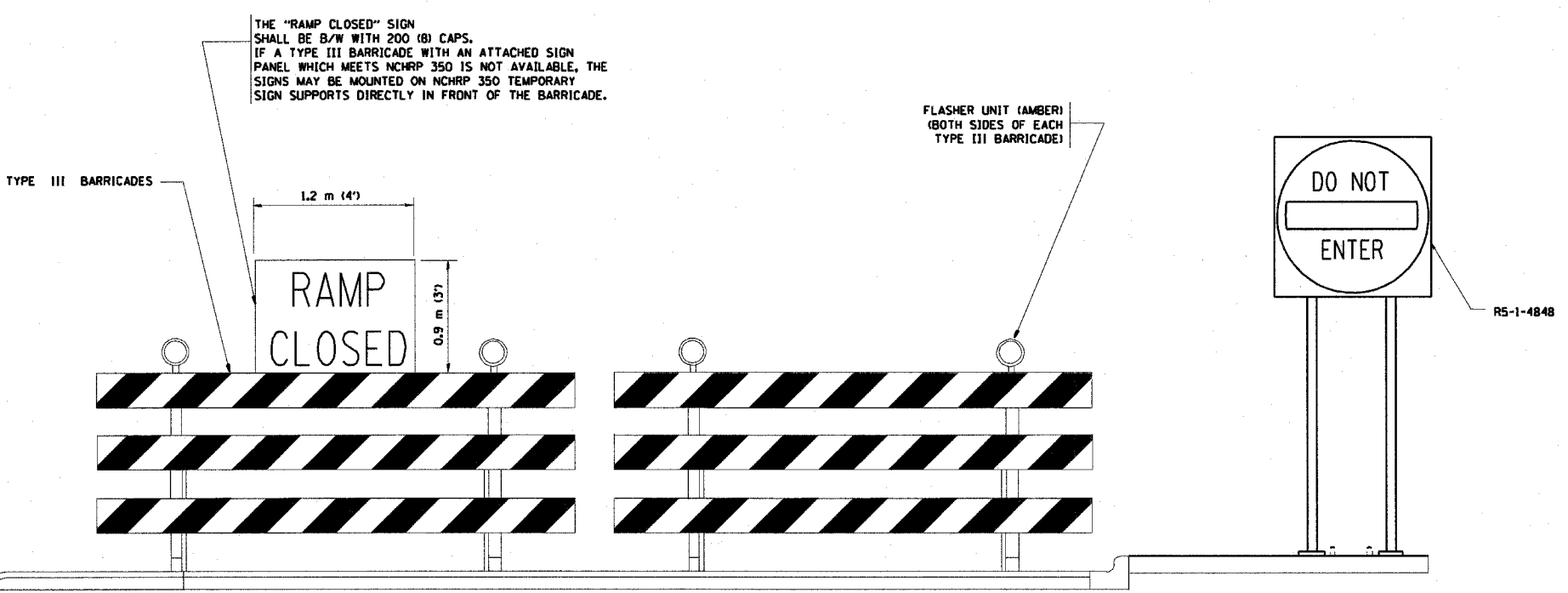
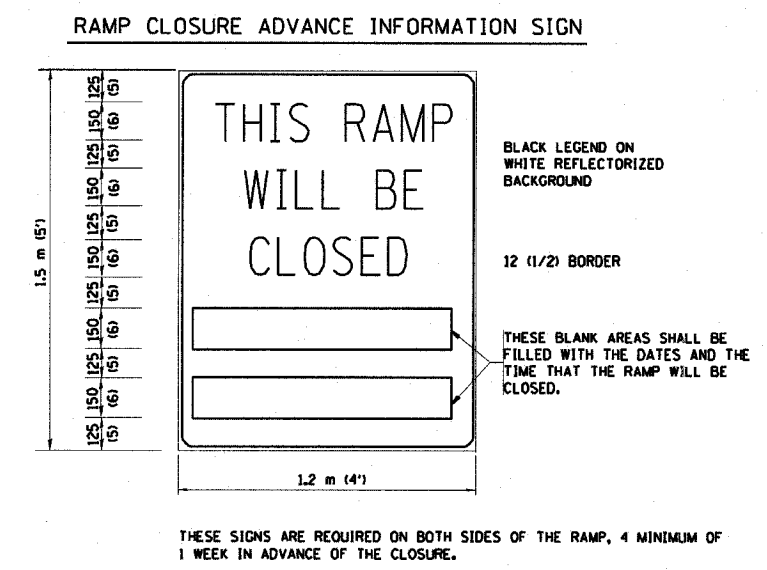
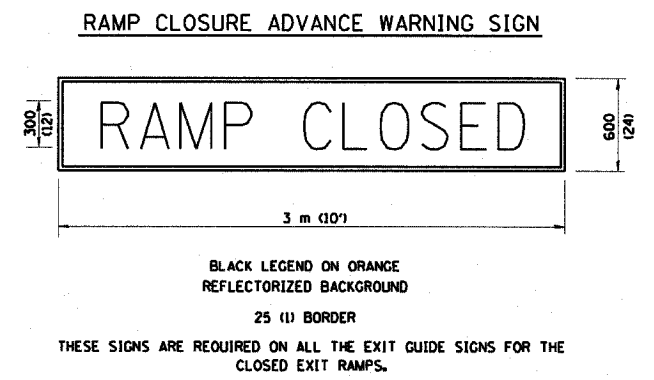
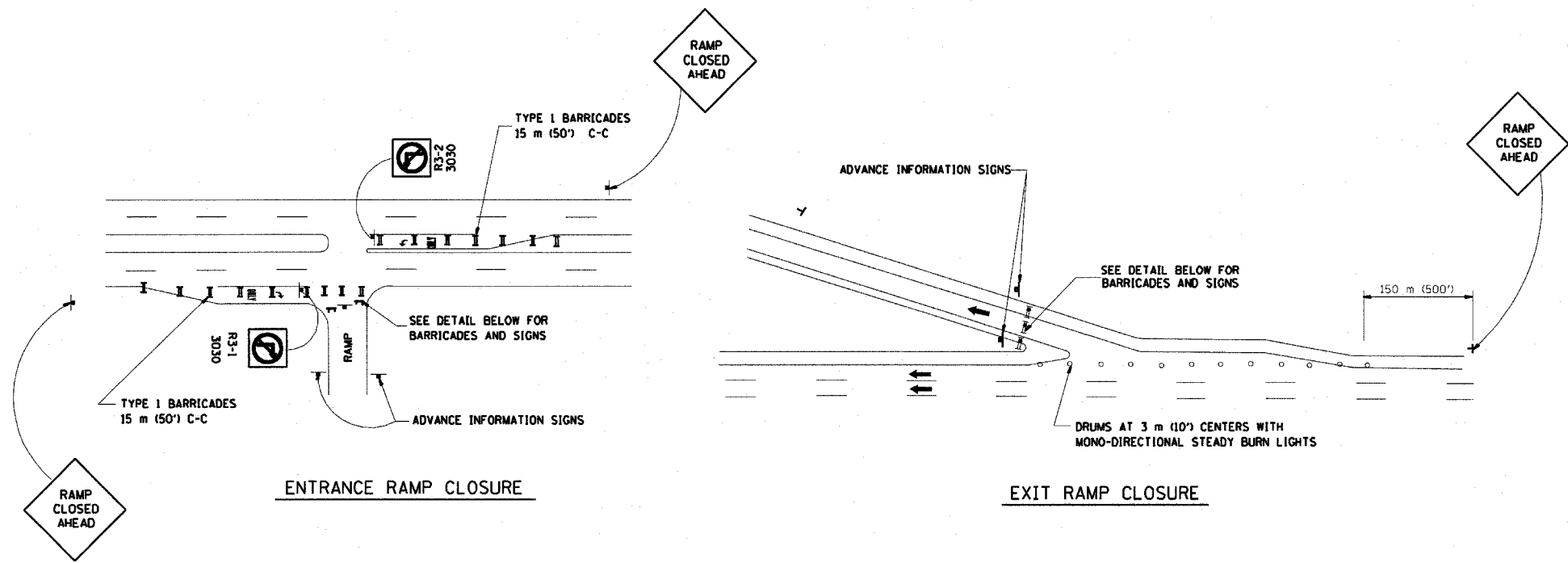
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG STATE ST.
 ENTRANCE RAMP AT 79TH ST.
 WALLS AIS1, 69, 70 & AIS2
 GATE SECTIONS AND DETAILS

DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI

SCALE: N.T.S.
 DATE: APRIL 15, 2005

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	34
STA. 2210+00.00		TO STA. 2356+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*(1516.1, 1717 & 1818)		I-3	62932	



- GENERAL NOTES:
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28) HIGH.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
 - FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
 - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
 - THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
 - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

- NOTES:
- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS.
 - ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
Revise devices to meet NCHRP 350	4/03

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

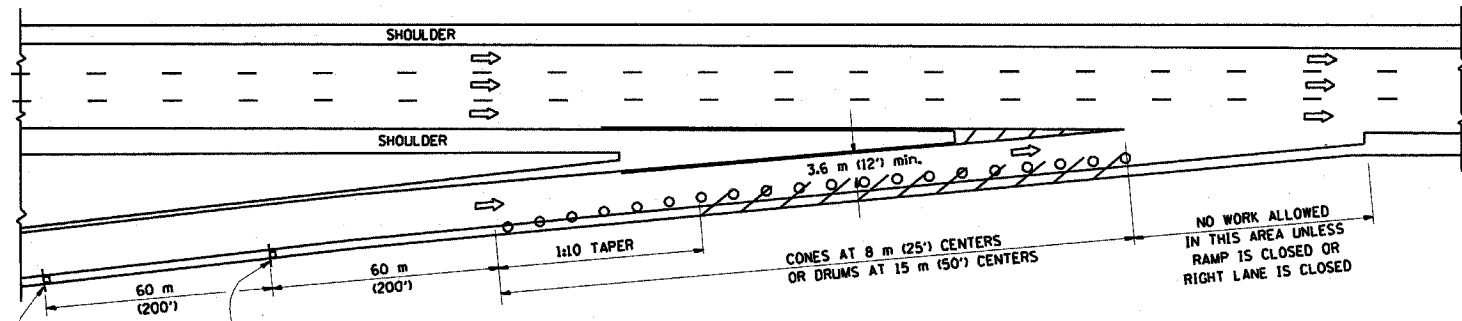
ILLINOIS DEPARTMENT OF TRANSPORTATION

FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

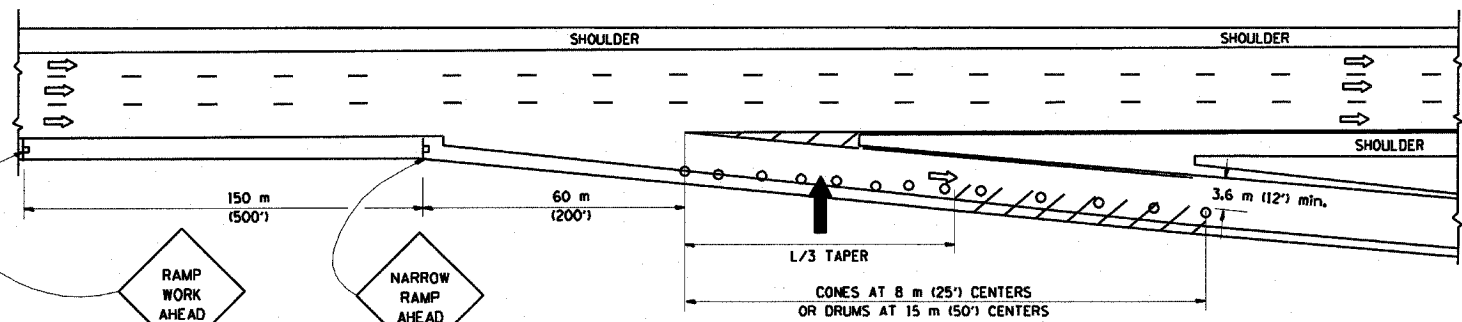
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DRAWN BY: _____
CHECKED BY: TC-8

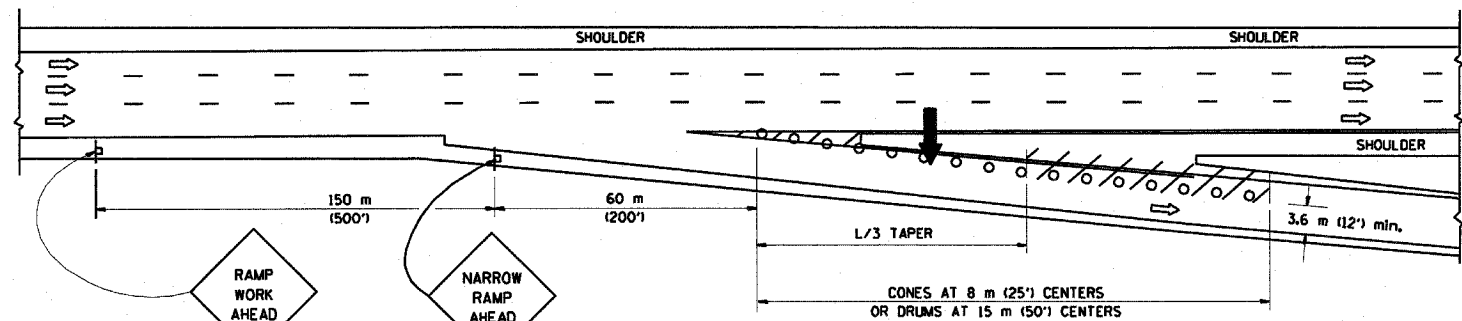
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

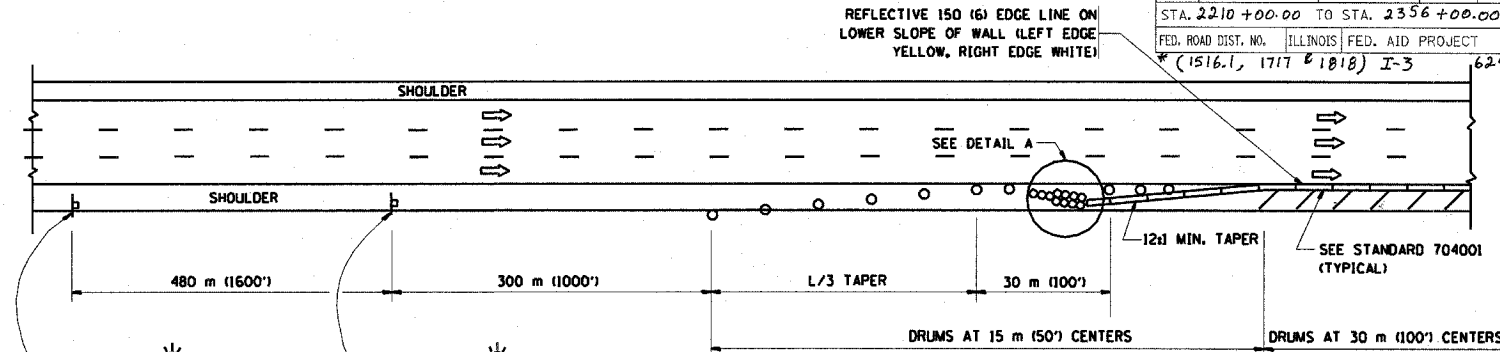
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

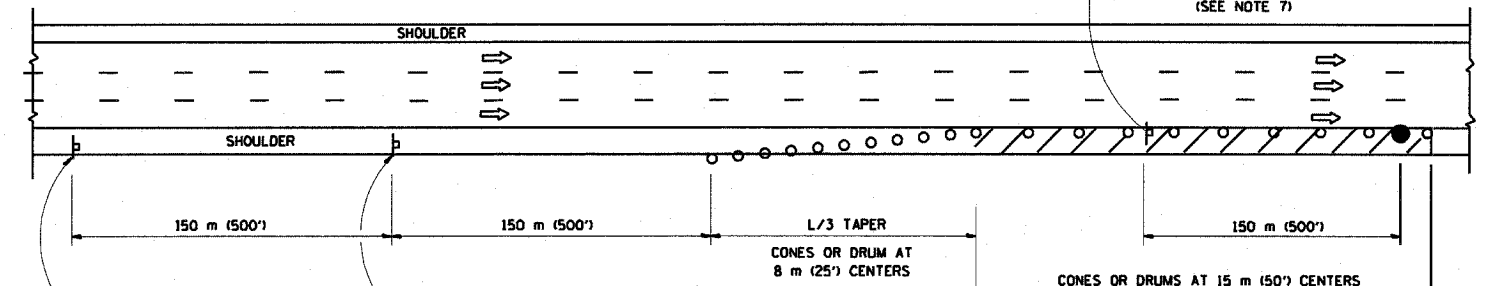
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
80 km/h (45 mph) OR GREATER:	METRIC ENGLISH
	$L=0.65(W/S)$ $L=(W/S)$
W = WIDTH OF OFFSET IN METERS (FEET)	
S = NORMAL POSTED SPEED KM/H (MPH)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 ILLINOIS DEPARTMENT OF TRANSPORTATION

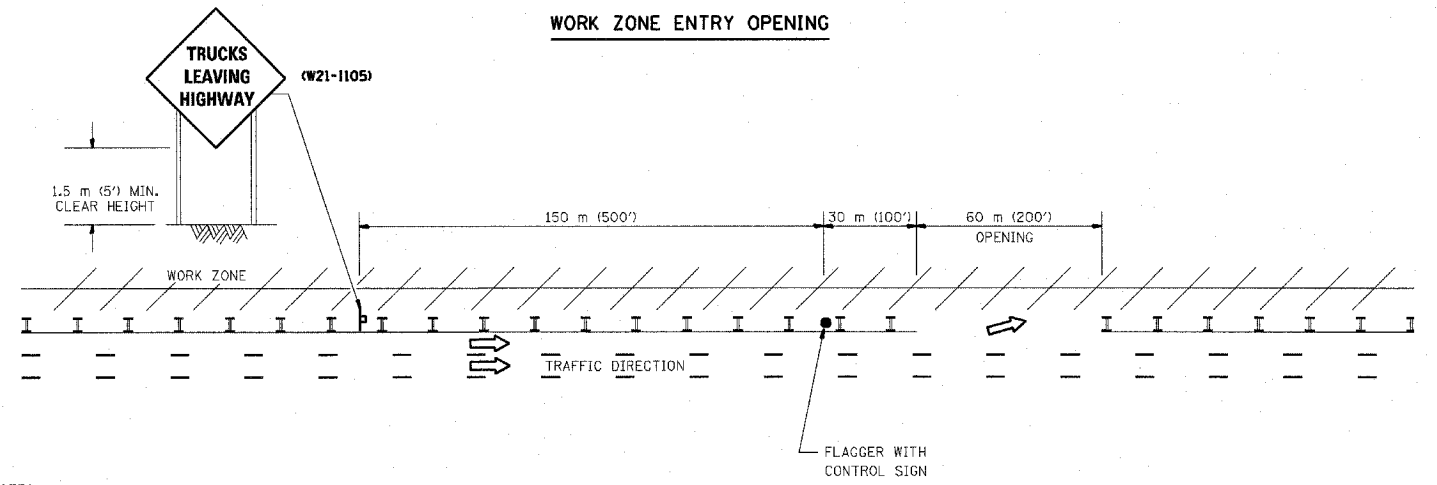
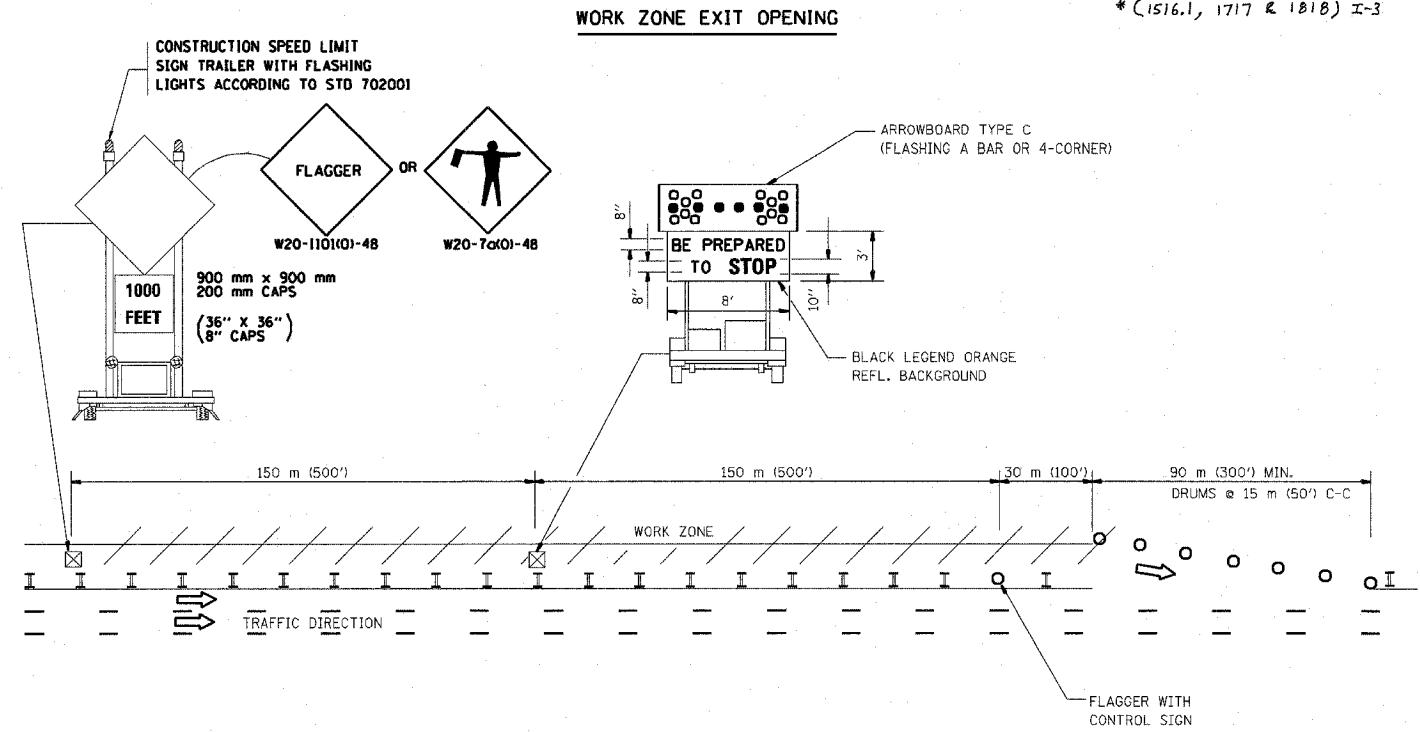
REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
 SCALE: NONE
 DATE: 05/06/2003
 DRAWN BY: DWS
 DESIGNED BY: DWS
 CHECKED BY: [blank]
 TC-17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	+	COOK	37	35
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*(1516.1, 1717 & 1818) I-3 62932				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	37	36
STA. 2210+00.00 TO STA. 2356+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*(1516.1, 1717 & 1818) I-3 62932				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

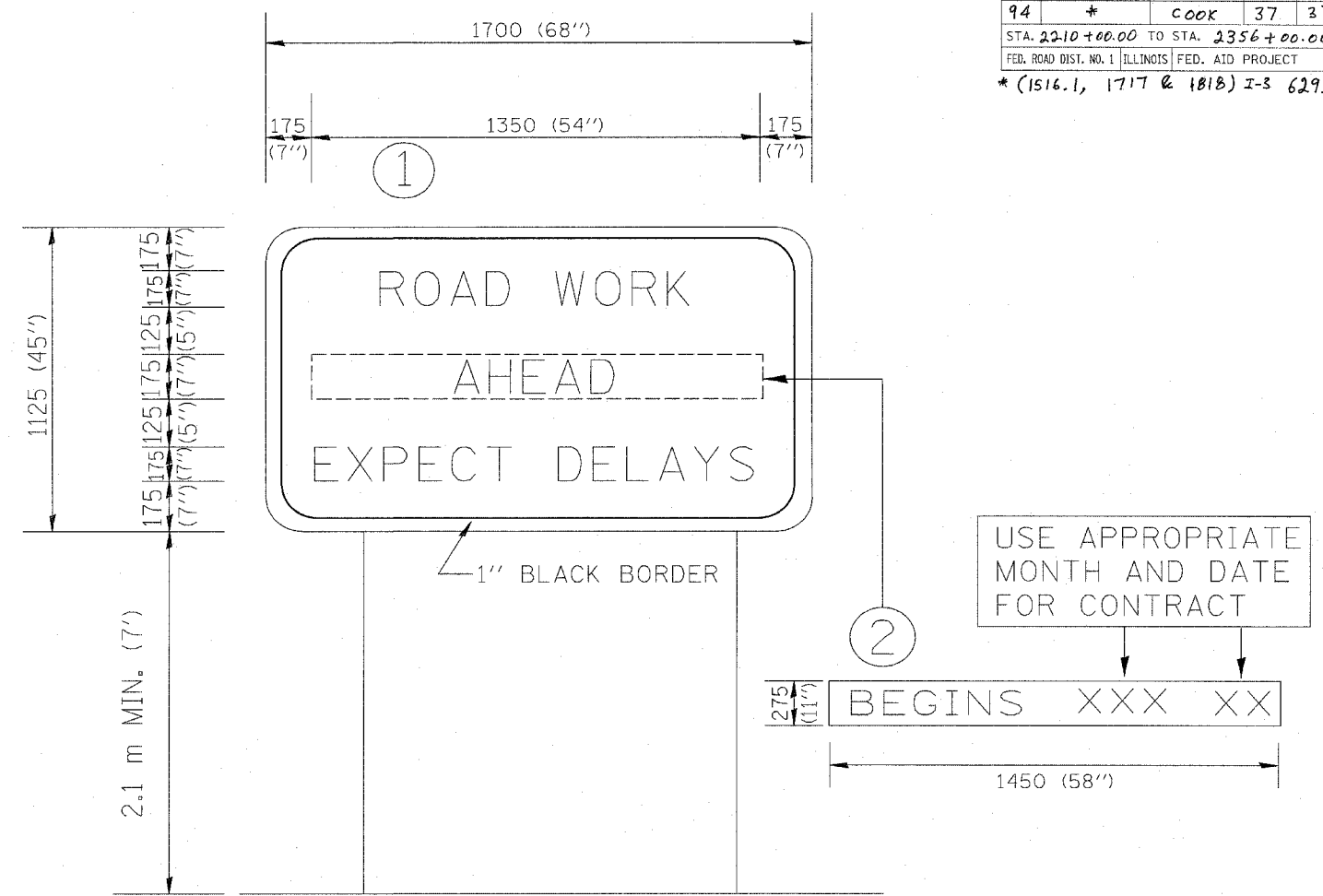
ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE
DATE 05/06/2003

DRAWN BY CADD
CHECKED BY TC-18



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. MIRS	9-15-97	TEMPORARY INFORMATION SIGNING
R. MIRS	2-11-97	
T. RAMMACHER	2-2-99	

SCALE: DATE 10/18/2002
DRAWN BY: BUR. OF DESIGN
CHECKED BY: