

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

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

**F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)  
SECTION 2006-034 I  
INSTALLATION OF FENCING AND GATING  
VARIOUS LOCATIONS  
71ST STREET TO 63RD STREET  
COOK COUNTY  
C-91-016-07**



**INDEX OF SHEETS**

SHEET	DESCRIPTION
1	COVER SHEET, INDEX OF SHEETS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES
4-14	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
15-24	EXISTING AND PROPOSED ROADWAY PLANS
25-31	STRUCTURAL DETAILS
32	ELECTRICAL DETAILS
33	TC-10 DISTRICT 1, TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
34	TC-17 DISTRICT 1, TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
35	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
36	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN

**DESIGN NUMBER**

D-91-419-01

**IDOT HIGHWAY STANDARDS**

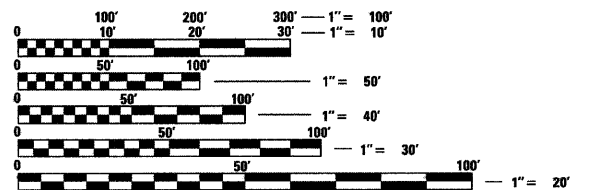
STANDARD	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006-	DECIMAL OF AN INCH AND OF A FOOT
664001-02	CHAIN LINK FENCE
701601-03	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES

**PROJECT LOCATED IN CITY OF CHICAGO**

**DESIGN DESIGNATION**

STATE ST: 1170 (20) URBAN COLLECTOR  
LAFAYETTE AVE: 632 (20) URBAN COLLECTOR

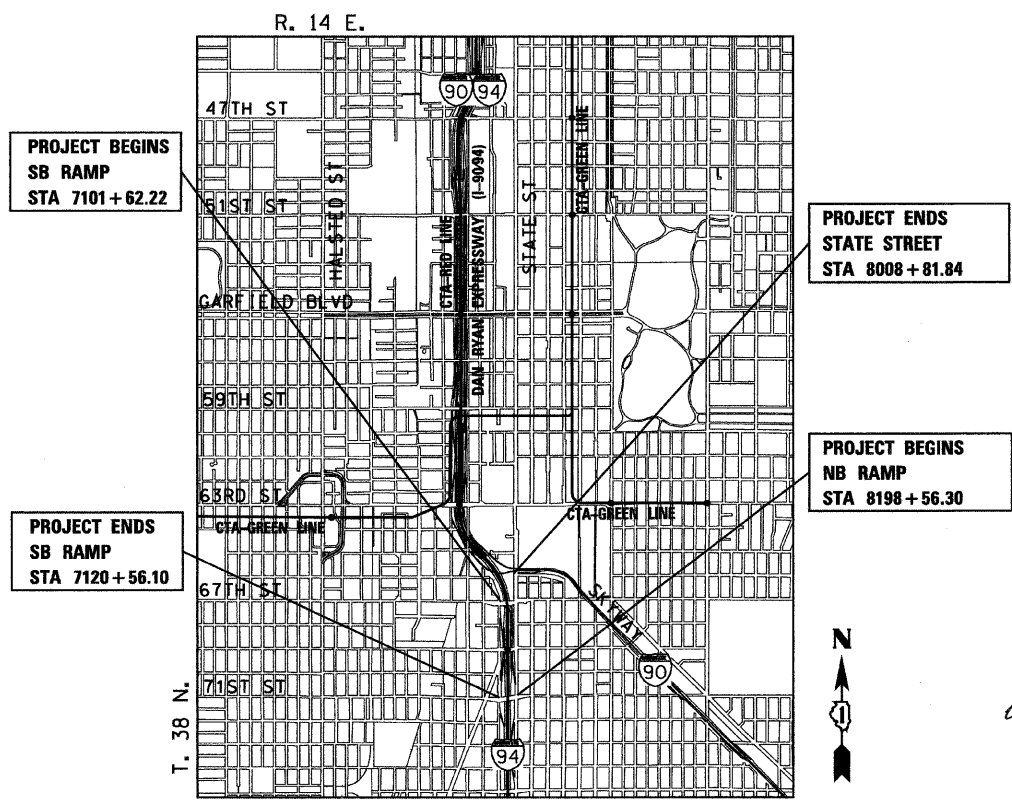
	DESIGN SPEED	POSTED SPEED
STATE STREET	30	25
LAFAYETTE AVENUE	30	25



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

**CONTRACT NO. 60B88**



**LOCATION MAP**

GROSS LENGTH OF PROJECT = 21,349 FT (4.043 MILES)  
NET LENGTH OF PROJECT = 21,349 FT (4.043 MILES)



ROBERT M. GOVEIA  
11/30/2009 EXPIRES 01/08/2009 DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 8, 2009

Diana M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 26, 2009  
Charles G. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2009  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**



DISTRICT ONE DESIGNCONSULTANT SERVICES PROJECT MANAGER  
RAJENDRA SHAH (847) 705-4555

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

60B88

**GENERAL NOTES:**

1. ALL WORK IN THIS CONTRACT SHALL BE COMPLETED BY SEPTEMBER 1, 2009.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
5. THIS CONTRACT DOES NOT INCLUDE QUANTITIES FOR THE PAY ITEMS "SOIL STABILIZERS" AND "APPLYING DUST SUPPRESSION AGENTS". IT HAS BEEN DETERMINED THAT THESE ITEMS ARE NOT NEEDED FOR THE WORK ASSOCIATED WITH THIS CONTRACT. IF THE ENGINEER DETERMINES THAT THIS WORK IS NECESSARY, PAYMENT SHALL BE MADE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:
  - CONTRACT 60A62 - NORTHBOUND LOCAL LANES (63RD STREET TO GARFIELD BOULEVARD)
  - CONTRACT 60B17 - NORTHBOUND LANES 1-5 (79TH STREET TO 71ST STREET)
  - CONTRACT 60A63 - SOUTHBOUND LOCAL LANES (63RD STREET TO GARFIELD BOULEVARD)
  - CONTRACT 60B18 - SOUTHBOUND LANES 1-5 (79TH STREET TO 71ST STREET)
  - CONTRACT 62583 - LIGHTING AND SURVEILLANCE 31ST ST TO I-57 INTERCHANGE
  - CONTRACT 62983 - FLUTED KNEE WALL ALONG STATE STREET (71ST STREET TO 63RD STREET)
  - CONTRACT 62984 - FLUTED KNEE WALL ALONG LAFAYETTE AVENUE (71ST STREET TO 63RD STREET)
  - CONTRACT 60A72 - NORTHBOUND ROADSIDE EMBANKMENT LANDSCAPING
  - CONTRACT 60A73 - SOUTHBOUND ROADSIDE EMBANKMENT LANDSCAPING
  - CONTRACT 60A77 - NORTHBOUND GATEWAY LANDSCAPING AND IRRIGATION AT 63RD STREET
  - CONTRACT 62985 - FLUTED KNEE WALL ALONG WENTWORTH AVENUE AND WELLS AVENUE (63RD STREET TO 62ND STREET)
  - CONTRACT 60A03 - FENCING AND GATING INSTALLATION (63RD STREET TO 47TH STREET)
7. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, RETAINING WALLS, AND DRAINAGE STRUCTURES BUILT IN CONTRACTS UNDER CONSTRUCTION DURING THE PREPARATION OF THESE PLANS IS BASED ON THE PUBLISHED CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS, AND ELEVATIONS OF THESE PREVIOUSLY CONSTRUCTED ITEMS.
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER AND/OR AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE CONTRACTORS OF CONTRACT 62983 AND CONTRACT 62984 FOR THE LOCATION OF THE RAMP METER FLASHER POST AND THE FIRST FENCE POST AT ALL GORE LOCATIONS.
11. STATIONING OF THE FENCING, AS PROVIDED ON THE PLAN SHEETS, IS APPROXIMATE AND FOR ESTIMATION PURPOSES ONLY. FENCING SHALL BE INSTALLED PER THE DETAILS FOR THE RESPECTIVE KNEE WALLS CONSTRUCTED IN CONTRACTS 62983 AND 62984.
12. TRAFFIC CONTROL ALONG THE FRONTAGE ROADS AND RAMPS SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
13. THE CONTRACTOR SHALL PROTECT ALL BLUNT ENDS OF THE KNEE WALL FOR TRAFFIC SAFETY. ALL TEMPORARY PROTECTION DEVICES USED FOR THIS PURPOSE SHALL BE NCHRP 350 COMPLIANT AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
14. THE CONTRACTOR MUST COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL THE CHICAGO UTILITY ALERT NETWORK (C.U.A.N.) AT (312) 744-7000 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, CABLE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED). THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, PERMIT SECTION AT (312) 747-7893 FOR WATER AND CITY SEWER LOCATIONS.

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
**GENERAL NOTES AND PROJECT COMMITMENTS**

SCALE: NONE  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

\\ussg1f201\p40468\p40468\civil\29-rped\_wal\emba\st\contract\40740125.dwg 2/13/2009 2:36:30 PM

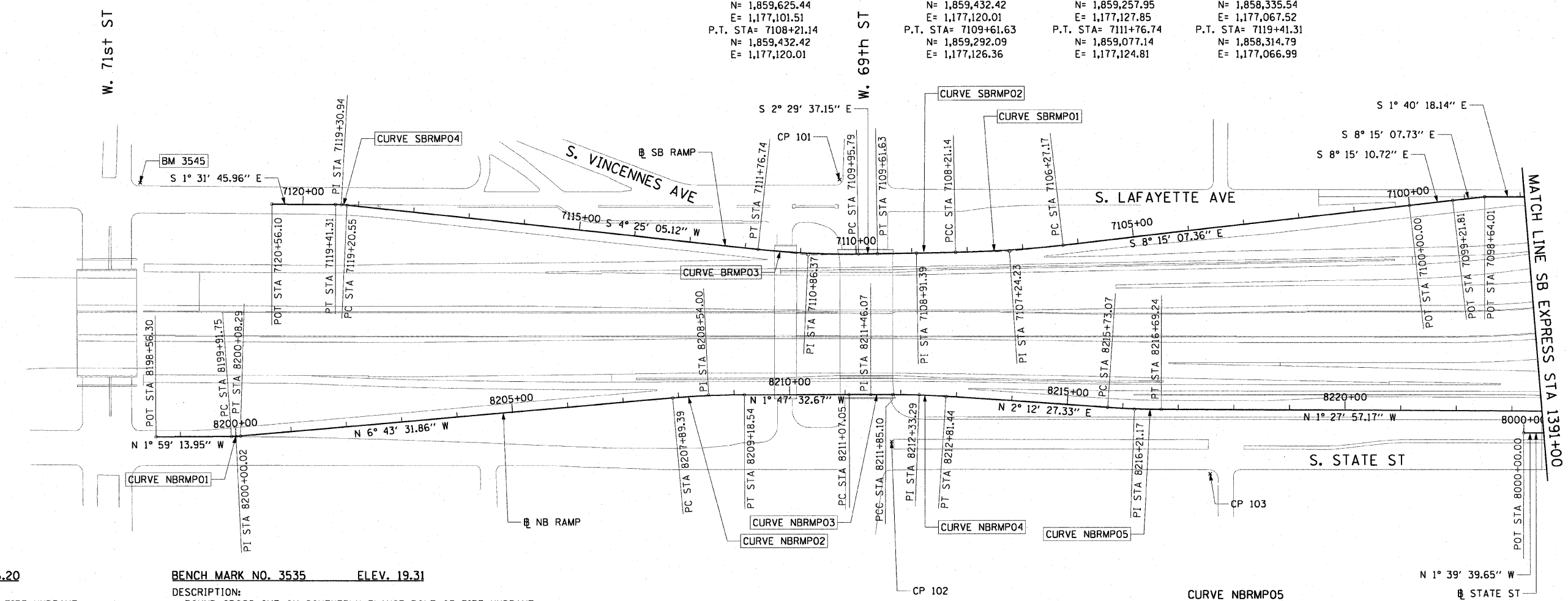


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	4
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			

60B88



CURVE SBRMPO1	CURVE SBRMPO2	CURVE SBRMPO3	CURVE SBRMPO4
P.I. STA= 7107+24.23	P.I. STA= 7108+91.39	P.I. STA= 7110+86.37	P.I. STA= 7119+30.94
N= 1,859,529.38	N= 1,859,362.26	N= 1,859,167.46	N= 1,858,325.18
E= 1,177,115.44	E= 1,177,123.31	E= 1,177,131.79	E= 1,177,066.71
Δ= 5° 33' 25"	Δ= 0° 12' 05"	Δ= 6° 54' 42"	Δ= 5° 56' 51"
D= 2° 51' 53"	D= 0° 08' 36"	D= 3° 49' 11"	D= 28° 38' 52"
R= 2,000.00'	R= 39,975.44'	R= 1,500.00'	R= 200.00'
T= 97.06'	T= 70.24'	T= 90.58'	T= 10.39'
L= 193.98	L= 140.48	L= 180.95	L= 20.76
E= 2.35'	E= 0.06'	E= 2.73'	E= 0.27'
ϕ= N/A	ϕ= N/A	ϕ= N/A	ϕ= N/A
T.R.= N/A	T.R.= N/A	T.R.= N/A	T.R.= N/A
S.E. RUN= N/A	S.E. RUN= N/A	S.E. RUN= N/A	S.E. RUN= N/A
P.C. STA= 7106+27.17	P.C. STA= 7108+21.14	P.C. STA= 7109+95.79	P.C. STA= 7119+20.55
N= 1,859,625.44	N= 1,859,432.42	N= 1,859,257.95	N= 1,858,335.54
E= 1,177,101.51	E= 1,177,120.01	E= 1,177,127.85	E= 1,177,067.52
P.T. STA= 7108+21.14	P.T. STA= 7109+61.63	P.T. STA= 7111+76.74	P.T. STA= 7119+41.31
N= 1,859,432.42	N= 1,859,292.09	N= 1,859,077.14	N= 1,858,314.79
E= 1,177,120.01	E= 1,177,126.36	E= 1,177,124.81	E= 1,177,066.99



- BENCH MARK NO. 3528 ELEV. 16.20**  
DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE
- BENCH MARK NO. 3530 ELEV. 18.18**  
DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST
- BENCH MARK NO. 3531 ELEV. 17.55**  
DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF GARFIELD BLVD AND WELLS ST
- BENCH MARK NO. 3532 ELEV. 18.84**  
DESCRIPTION: HORIZONTAL BOLT ON CTA "EL" STRUCTURE, EAST SIDE OF WELLS ST ABOUT 50 FEET NORTH OF 59TH PL.
- BENCH MARK NO. 3533 ELEV. 19.71**  
DESCRIPTION: BRASS DISK (CTA MONUMENT) AT THE SOUTHWEST CORNER OF 63RD ST AND HARVARD ST

- BENCH MARK NO. 3535 ELEV. 19.31**  
DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE
- BENCH MARK NO. 3536 ELEV. 18.37**  
DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE
- BENCH MARK NO. 3537 ELEV. 17.71**  
DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 51ST ST AND WENTWORTH AVE
- BENCH MARK NO. 3538 ELEV. 17.31**  
DESCRIPTION: CROSS CUT ON EASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 47TH ST AND LASALLE ST
- BENCH MARK NO. 3544 ELEV. 19.38**  
DESCRIPTION: CROSS CUT ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 67TH ST AND LAFAYETTE AVE
- BENCH MARK NO. 3545 ELEV. 10.53**  
DESCRIPTION: CROSS CUT ON NORTHWEST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 71ST ST AND LAFAYETTE AVE

CURVE NBRMPO1	CURVE NBRMPO2	CURVE NBRMPO3	CURVE NBRMPO4
P.I. STA= 8200+00.02	P.I. STA= 8208+54.00	P.I. STA= 8211+46.07	P.I. STA= 8212+33.29
N= 1,858,147.27	N= 1,858,995.39	N= 1,859,287.39	N= 1,859,374.58
E= 1,177,489.42	E= 1,177,389.40	E= 1,177,380.27	E= 1,177,378.02
Δ= 4° 44' 18"	Δ= 4° 55' 59"	Δ= 0° 19' 12"	Δ= 3° 40' 48"
D= 28° 38' 52"	D= 3° 49' 11"	D= 0° 24' 36"	D= 3° 49' 11"
R= 200.00'	R= 1,500.00'	R= 13,976.00'	R= 1,500.00'
T= 8.27'	T= 64.61'	T= 39.03'	T= 48.19'
L= 16.54	L= 129.15	L= 78.05	L= 96.34
E= 0.17'	E= 1.39'	E= 0.05'	E= 0.77'
ϕ= N/A	ϕ= N/A	ϕ= N/A	ϕ= N/A
T.R.= N/A	T.R.= N/A	T.R.= N/A	T.R.= N/A
S.E. RUN= N/A	S.E. RUN= N/A	S.E. RUN= N/A	S.E. RUN= N/A
P.C. STA= 8199+91.75	P.C. STA= 8207+89.39	P.C. STA= 8211+07.05	P.C. STA= 8211+85.10
N= 1,858,139.01	N= 1,858,931.22	N= 1,859,248.39	N= 1,859,326.41
E= 1,177,489.70	E= 1,177,396.97	E= 1,177,381.49	E= 1,177,379.26
P.T. STA= 8200+08.29	P.T. STA= 8209+18.54	P.T. STA= 8211+85.10	P.T. STA= 8212+81.44
N= 1,858,155.49	N= 1,859,059.97	N= 1,859,326.41	N= 1,859,422.73
E= 1,177,488.45	E= 1,177,387.38	E= 1,177,379.26	E= 1,177,379.88

**CURVE NBRMPO5**

P.I. STA= 8216+21.17  
N= 1,859,762.21  
E= 1,177,392.97  
Δ= 3° 40' 25"  
D= 3° 49' 11"  
R= 1,500.00'  
T= 48.10'  
L= 96.17'  
E= 0.77'  
ϕ= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 8215+73.07  
N= 1,859,714.14  
E= 1,177,391.11  
P.T. STA= 8216+69.24  
N= 1,859,810.29  
E= 1,177,391.74

**NOTES:**  
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
**ALIGNMENT PLAN**

SCALE: 1"=100'  
DATE: JANUARY 14, 2009

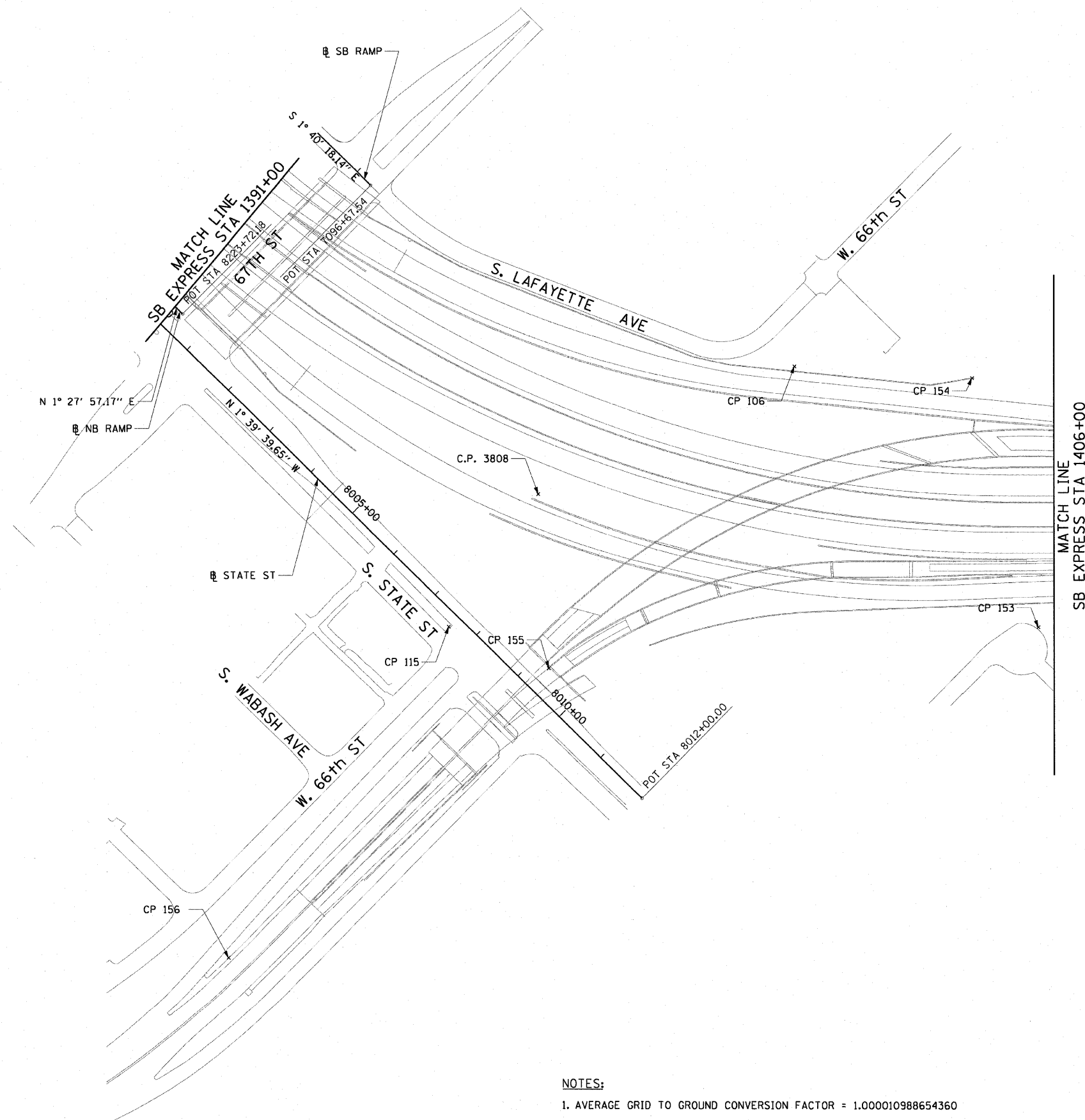
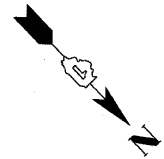
DRAWN BY: NJH/AMM  
CHECKED BY: JAL/MS



\\uscgfip207\p40468\p40468\civil\28-knee-wall\_fences\contract\4\4100\2a.st 2:36:22 PM 1/13/2009

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	5
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



N 1° 27' 57.17" E

SB NB RAMP

SB MATCH LINE  
SB EXPRESS STA 1391+00

SB RAMP

S 1° 40' 18.14" E

STATE ST

8005+00

S. STATE ST

CP 115

S. WABASH AVE

W. 66th ST

C.P. 3808

CP 155

8010+00

POT STA 8012+00.00

CP 106

CP 154

CP 153

MATCH LINE  
SB EXPRESS STA 1406+00

CP 156

**NOTES:**

1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
ALIGNMENT PLAN

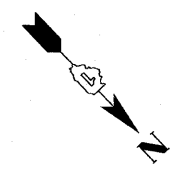
SCALE: 1"=100'  
DATE: JANUARY 14, 2009

DRAWN BY: NJH/AMM  
CHECKED BY: JAL/MS

\\uscp1f1207\p207\p40465\p40466\civil\26-tree-wall\_fence\sb\contract\final\40022\asht

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



**CURVE EKWELLO1**  
P.I. STA= 9+04.39  
N= 1,861,874.35  
E= 1,176,076.45  
Δ= 10° 52' 16"  
D= 5° 40' 05"  
R= 1,010.83'  
T= 96.18'  
L= 191.79'  
E= 4.56'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 8+08.21  
N= 1,861,778.19  
E= 1,176,078.94  
P.T. STA= 10+00.00  
N= 1,861,968.30  
E= 1,176,055.87

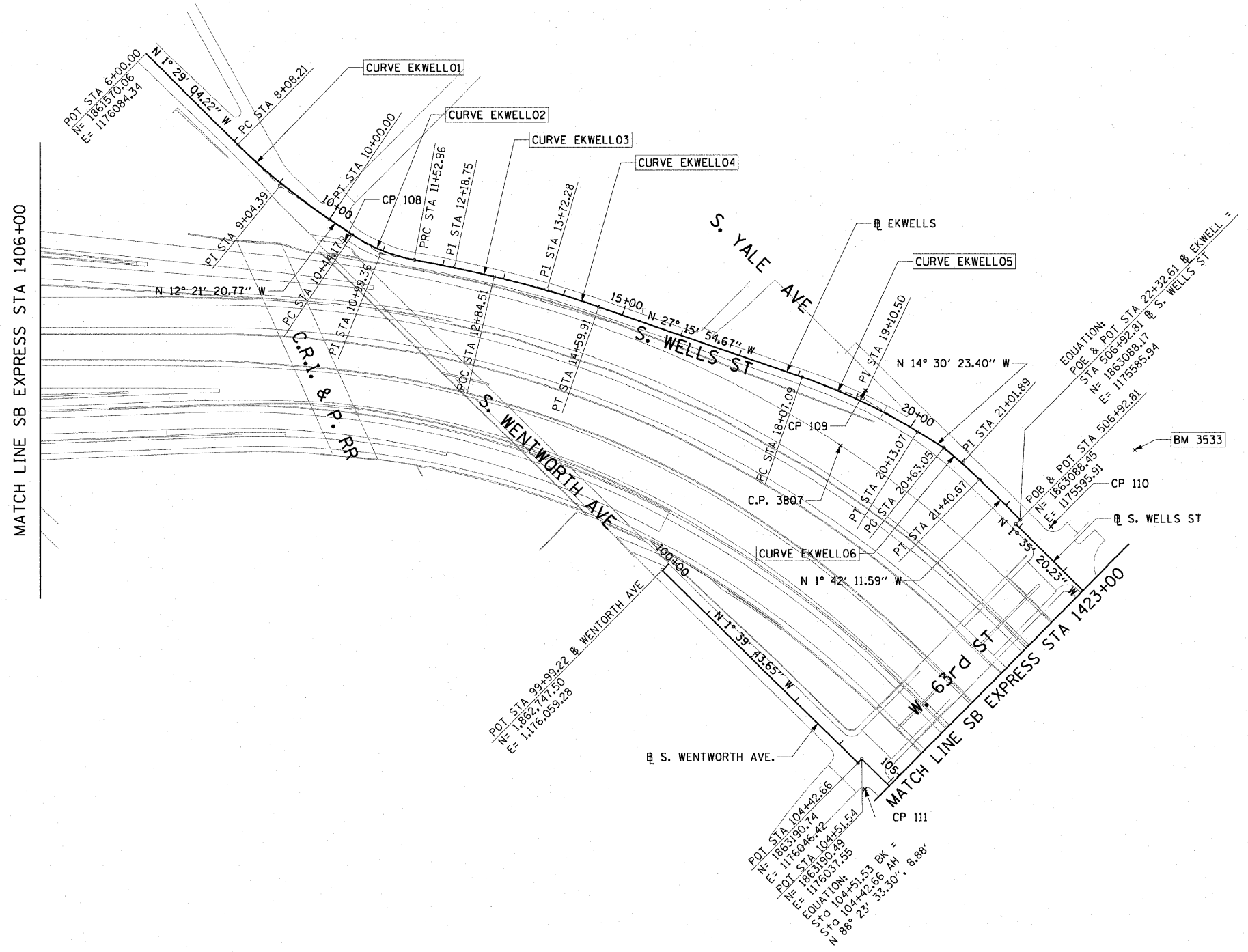
**CURVE EKWELLO2**  
P.I. STA= 10+99.36  
N= 1,862,065.35  
E= 1,176,034.61  
Δ= 23° 41' 58"  
D= 21° 47' 07"  
R= 263.00'  
T= 55.18'  
L= 108.78'  
E= 4.56'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 10+44.17  
N= 1,862,011.45  
E= 1,176,002.13  
P.T. STA= 11+52.96  
N= 1,862,109.97  
E= 1,176,002.13

**CURVE EKWELLO3**  
P.I. STA= 12+18.75  
N= 1,862,163.15  
E= 1,175,963.41  
Δ= 2° 58' 46"  
D= 2° 15' 54"  
R= 2,529.60'  
T= 65.78'  
L= 131.54'  
E= 0.85'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 11+52.96  
N= 1,862,109.97  
E= 1,176,002.13  
P.T. STA= 12+84.51  
N= 1,862,218.28  
E= 1,175,927.50

**CURVE EKWELLO4**  
P.I. STA= 13+72.28  
N= 1,862,291.83  
E= 1,175,879.60  
Δ= 5° 48' 38"  
D= 3° 18' 45"  
R= 1,729.58'  
T= 87.77'  
L= 175.40'  
E= 2.22'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 12+84.51  
N= 1,862,218.28  
E= 1,175,927.50  
P.T. STA= 14+59.61  
N= 1,862,369.86  
E= 1,175,839.39

**CURVE EKWELLO5**  
P.I. STA= 19+10.50  
N= 1,862,770.39  
E= 1,175,632.97  
Δ= 12° 45' 31"  
D= 6° 11' 38"  
R= 925.00'  
T= 103.41'  
L= 205.97'  
E= 5.76'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 18+07.09  
N= 1,862,678.46  
E= 1,175,680.34  
P.T. STA= 20+13.07  
N= 1,862,870.51  
E= 1,175,607.06

**CURVE EKWELLO6**  
P.I. STA= 21+01.89  
N= 1,862,957.45  
E= 1,175,589.82  
Δ= 5° 16' 59"  
D= 6° 48' 23"  
R= 841.78'  
T= 38.83'  
L= 77.62'  
E= 0.89'  
e= N/A  
T.R.= N/A  
S.E. RUN= N/A  
P.C. STA= 20+63.05  
N= 1,862,918.90  
E= 1,175,594.54  
P.T. STA= 21+40.67  
N= 1,862,996.27  
E= 1,175,588.66



**NOTES:**  
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360  
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
ALIGNMENT PLAN

SCALE: 1"=100'  
DATE: JANUARY 14, 2009  
DRAWN BY: NJH  
CHECKED BY: RMG



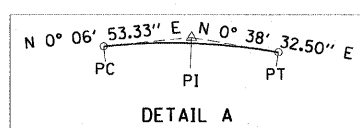
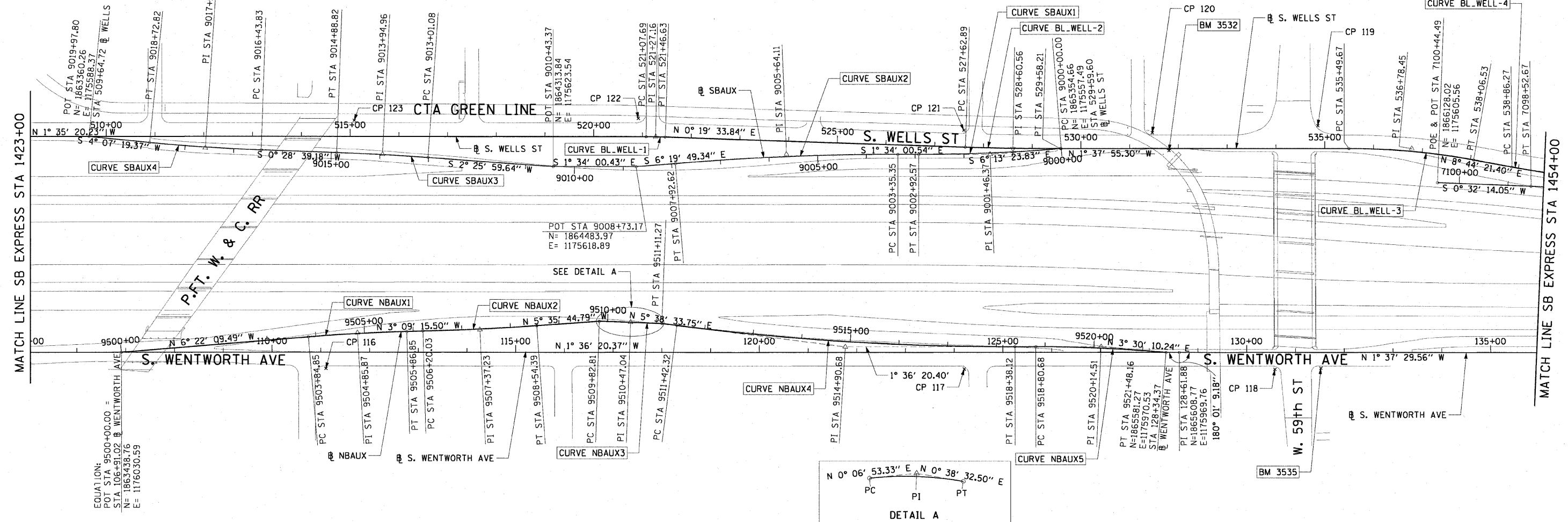
2-3622 PM 1/13/2009

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60888



CURVE SBAUX1	CURVE SBAUX2	CURVE SBAUX3	CURVE SBAUX4
P.I. STA= 9001+46.37 N= 1,865,209.16 E= 1,175,573.36 Δ= 4° 39' 23" D= 1° 35' 30" R= 3600.00' T= 146.37' L= 292.57' E= 2.97' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9000+00.00 N= 1,865,354.66 E= 1,175,557.49 P.T. STA= 9002+92.57 N= 1,865,062.84 E= 1,175,577.36	P.I. STA= 9005+64.11 N= 1,864,791.41 E= 1,175,584.78 Δ= 4° 45' 49" D= 1° 02' 30" R= 5500.00' T= 228.77' L= 457.27' E= 4.76' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9003+35.35 N= 1,865,020.09 E= 1,175,578.53 P.T. STA= 9007+92.62 N= 1,864,564.03 E= 1,175,610.01	P.I. STA= 9013+94.96 N= 1,863,962.56 E= 1,175,608.62 Δ= 1° 57' 20" D= 1° 02' 30" R= 5500.00' T= 93.88' L= 187.72' E= 0.80' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9013+01.08 N= 1,864,056.35 E= 1,175,612.60 P.T. STA= 9014+88.82 N= 1,863,868.69 E= 1,175,607.83	P.I. STA= 9017+58.36 N= 1,863,599.16 E= 1,175,605.59 Δ= 3° 38' 40" D= 1° 35' 30" R= 3600.00' T= 114.53' L= 228.99' E= 1.82' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9016+43.83 N= 1,863,713.69 E= 1,175,606.54 P.T. STA= 9018+72.82 N= 1,863,484.92 E= 1,175,597.35



CURVE NBAUX1	CURVE NBAUX2	CURVE NBAUX3	CURVE NBAUX4	CURVE NBAUX5	CURVE BL_WELL-1	CURVE BL_WELL-2	CURVE BL_WELL-3
P.I. STA= 9504+85.87 N= 1,863,921.64 E= 1,175,976.69 Δ= 3° 12' 54" D= 1° 35' 30" R= 3600.00' T= 101.03' L= 202.00' E= 1.42' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9503+84.85 N= 1,863,821.23 E= 1,175,987.89 P.T. STA= 9505+86.85 N= 1,864,022.51 E= 1,175,971.13	P.I. STA= 9507+37.23 N= 1,864,172.66 E= 1,175,962.85 Δ= 2° 26' 29" D= 1° 02' 30" R= 5500.00' T= 117.20' L= 234.36' E= 1.25' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9506+20.03 N= 1,864,055.64 E= 1,175,969.30 P.T. STA= 9508+54.39 N= 1,864,289.30 E= 1,175,951.42	P.I. STA= 9510+47.04 N= 1,864,481.34 E= 1,175,939.03 Δ= 0° 31' 39" D= 1° 02' 30" R= 13952.00' T= 64.23' L= 128.46' E= 0.15' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9509+82.81 N= 1,864,417.11 E= 1,175,938.90 P.T. STA= 9511+11.27 N= 1,864,545.57 E= 1,175,939.75	P.I. STA= 9514+90.68 N= 1,864,923.14 E= 1,175,977.06 Δ= 7° 14' 54" D= 1° 02' 30" R= 5500.00' T= 348.36' L= 695.79' E= 11.02' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9511+42.32 N= 1,864,576.47 E= 1,175,942.80 P.T. STA= 9518+38.12 N= 1,865,271.36 E= 1,175,967.30	P.I. STA= 9520+14.51 N= 1,865,447.69 E= 1,175,962.35 Δ= 5° 06' 31" D= 1° 54' 35" R= 3000.00' T= 133.83' L= 267.48' E= 2.98' e= 2.4 T.R.= 11' (0') S.E. RUN= 66' (0') P.C. STA= 9518+80.68 N= 1,865,313.91 E= 1,175,966.10 P.T. STA= 9521+48.16 N= 1,865,581.27 E= 1,175,970.53	P.I. STA= 521+27.16 N= 1,864,522.25 E= 1,175,556.14 Δ= 1° 54' 54" D= 4° 55' 05" R= 1165.00' T= 19.47' L= 38.94' E= 0.16' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 521+07.69 N= 1,864,502.79 E= 1,175,556.68 P.T. STA= 521+46.63 N= 1,864,541.72 E= 1,175,556.25	P.I. STA= 528+60.56 N= 1,865,255.64 E= 1,175,560.31 Δ= 1° 57' 29" D= 1° 00' 09" R= 5715.00' T= 97.67' L= 195.31' E= 0.83' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 527+62.89 N= 1,865,157.98 E= 1,175,559.75 P.T. STA= 529+58.21 N= 1,865,353.27 E= 1,175,557.53	P.I. STA= 536+78.45 N= 1,866,073.22 E= 1,175,537.02 Δ= 10° 22' 17" D= 4° 02' 16" R= 1419.00' T= 128.78' L= 256.86' E= 5.83' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 535+49.67 N= 1,865,944.49 E= 1,175,540.68 P.T. STA= 538+06.53 N= 1,866,200.51 E= 1,175,556.58

- NOTES:
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
  - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
ALIGNMENT PLAN

SCALE: 1"=100'  
DATE: JANUARY 14, 2009

DRAWN BY: NJH  
CHECKED BY: RMG



1/13/2009 2:36:23 PM





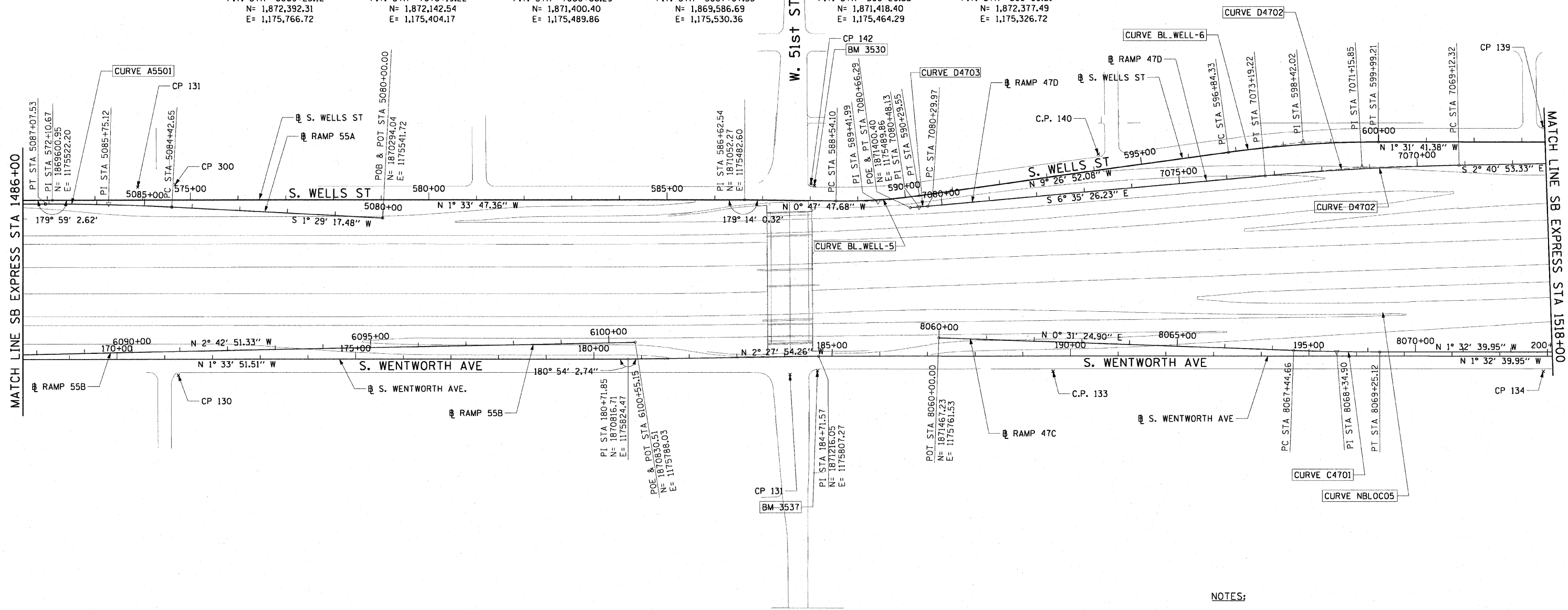


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



<b>CURVE C4701</b> P.I. STA= 8068+34.90 N= 1,872,302.10 E= 1,175,769.16 $\Delta = 2^{\circ} 04' 05''$ D= 1^{\circ} 08' 45'' R= 5000.00' T= 90.24' L= 180.47' E= 0.81' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8067+44.66 N= 1,872,211.86 E= 1,175,768.33 P.T. STA= 8069+25.12 N= 1,872,392.31 E= 1,175,766.72	<b>CURVE D4702</b> P.I. STA= 7071+15.85 N= 1,872,344.72 E= 1,175,380.81 $\Delta = 3^{\circ} 54' 33''$ D= 0^{\circ} 57' 38'' R= 5964.00' T= 203.53' L= 406.91' E= 3.47' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7069+12.32 N= 1,872,548.03 E= 1,175,371.29 P.T. STA= 7073+19.22 N= 1,872,142.54 E= 1,175,404.17	<b>CURVE D4703</b> P.I. STA= 7080+48.13 N= 1,871,418.45 E= 1,175,487.83 $\Delta = 0^{\circ} 11' 56''$ D= 0^{\circ} 32' 51'' R= 10464.00' T= 18.16' L= 36.32' E= 0.02' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7080+29.97 N= 1,871,436.49 E= 1,175,485.75 P.T. STA= 7080+66.29 N= 1,871,400.40 E= 1,175,489.86	<b>CURVE A5501</b> P.I. STA= 5085+75.12 N= 1,869,719.11 E= 1,175,526.79 $\Delta = 3^{\circ} 02' 07''$ D= 1^{\circ} 08' 45'' R= 5000.00' T= 132.48' L= 264.89' E= 1.75' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 5084+42.65 N= 1,869,851.55 E= 1,175,530.23 P.T. STA= 5087+07.53 N= 1,869,586.69 E= 1,175,530.36	<b>CURVE BL_WELL-5</b> P.I. STA= 589+41.99 N= 1,871,331.70 E= 1,175,478.71 $\Delta = 8^{\circ} 39' 04''$ D= 4^{\circ} 55' 51'' R= 1162.00' T= 87.89' L= 175.45' E= 3.32' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 588+54.10 N= 1,871,243.82 E= 1,175,479.94 P.T. STA= 590+29.55 N= 1,871,418.40 E= 1,175,464.29	<b>CURVE BL_WELL-6</b> P.I. STA= 598+42.02 N= 1,872,219.86 E= 1,175,330.92 $\Delta = 7^{\circ} 55' 11''$ D= 2^{\circ} 30' 55'' R= 2278.00' T= 157.69' L= 314.87' E= 5.45' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 596+84.33 N= 1,872,064.31 E= 1,175,356.80 P.T. STA= 599+99.21 N= 1,872,377.49 E= 1,175,326.72
--	---	--	---	---	--



- NOTES:**
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
  2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

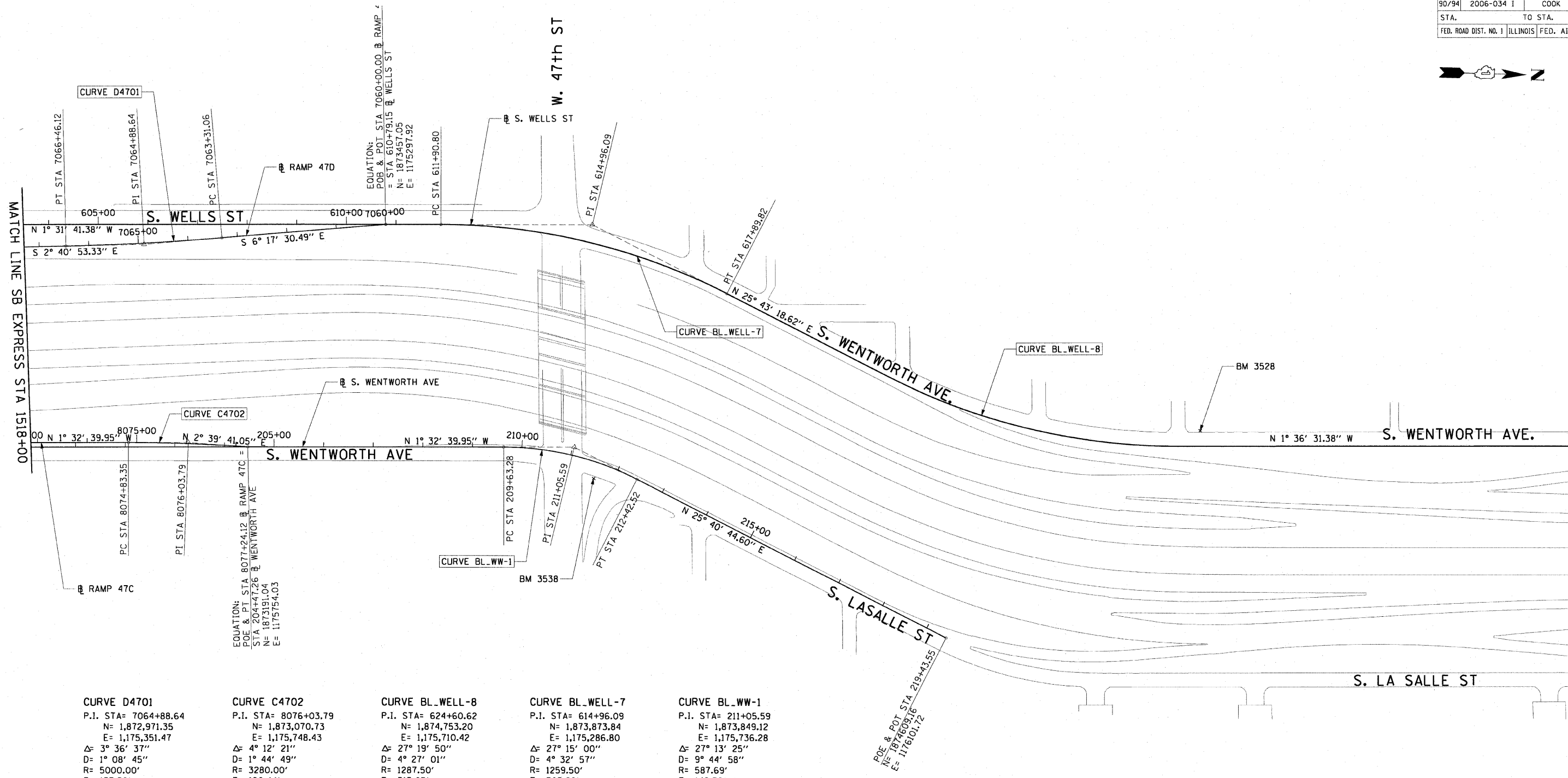
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
**ALIGNMENT PLAN**

SCALE: 1"=100'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

V:\sushel\p207\p40468\p40468\ch1\28\_knee\_w\al\_fence\sf\contract\_4\al410062a.dwg 2/3/2009 2:36:24 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



<p><b>CURVE D4701</b>  P.I. STA= 7064+88.64  N= 1,872,971.35  E= 1,175,351.47  Δ= 3° 36' 37"  D= 1° 08' 45"  R= 5000.00'  T= 157.58'  L= 315.06'  E= 2.48'  e= N/A  T.R.= N/A  S.E. RUN= N/A  P.C. STA= 7063+31.06  N= 1,873,127.98  E= 1,175,334.20  P.T. STA= 7066+46.12  N= 1,872,813.94  E= 1,175,358.84</p>	<p><b>CURVE C4702</b>  P.I. STA= 8076+03.79  N= 1,873,070.73  E= 1,175,748.43  Δ= 4° 12' 21"  D= 1° 44' 49"  R= 3280.00'  T= 120.44'  L= 240.77'  E= 2.21'  e= N/A  T.R.= N/A  S.E. RUN= N/A  P.C. STA= 8074+83.35  N= 1,872,950.33  E= 1,175,751.68  P.T. STA= 8077+24.12  N= 1,873,191.04  E= 1,175,754.03</p>	<p><b>CURVE BL_WELL-8</b>  P.I. STA= 624+60.62  N= 1,874,753.20  E= 1,175,710.42  Δ= 27° 19' 50"  D= 4° 27' 01"  R= 1287.50'  T= 313.03'  L= 614.15'  E= 37.51'  e= N/A  T.R.= N/A  S.E. RUN= N/A  P.C. STA= 621+47.59  N= 1,874,471.18  E= 1,175,574.56  P.T. STA= 627+61.73  N= 1,875,066.11  E= 1,175,701.63</p>	<p><b>CURVE BL_WELL-7</b>  P.I. STA= 614+96.09  N= 1,873,873.84  E= 1,175,286.80  Δ= 27° 15' 00"  D= 4° 32' 57"  R= 1259.50'  T= 305.29'  L= 599.02'  E= 36.47'  e= N/A  T.R.= N/A  S.E. RUN= N/A  P.C. STA= 611+90.80  N= 1,873,568.66  E= 1,175,294.94  P.T. STA= 617+89.82  N= 1,874,148.87  E= 1,175,419.29</p>	<p><b>CURVE BL_WW-1</b>  P.I. STA= 211+05.59  N= 1,873,849.12  E= 1,175,736.28  Δ= 27° 13' 25"  D= 9° 44' 58"  R= 587.69'  T= 142.30'  L= 279.23'  E= 16.98'  e= N/A  T.R.= N/A  S.E. RUN= N/A  P.C. STA= 209+63.28  N= 1,873,706.87  E= 1,175,740.12  P.T. STA= 212+42.52  N= 1,873,977.37  E= 1,175,797.95</p>
--	--	---	---	--

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
  - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

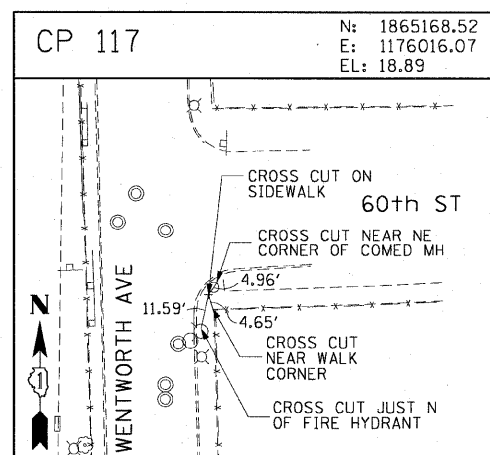
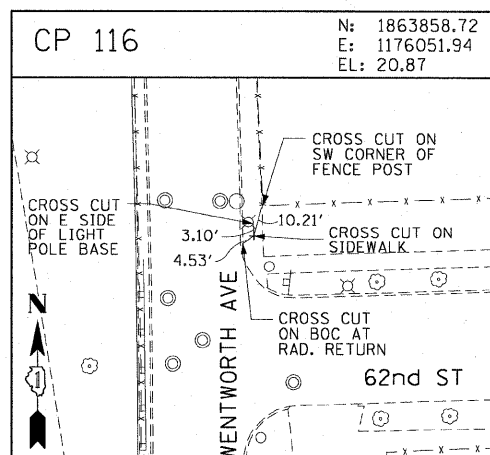
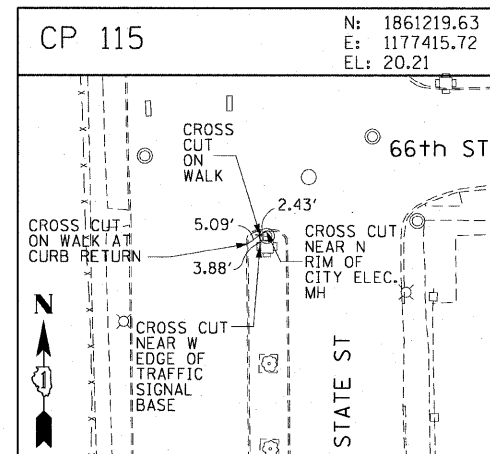
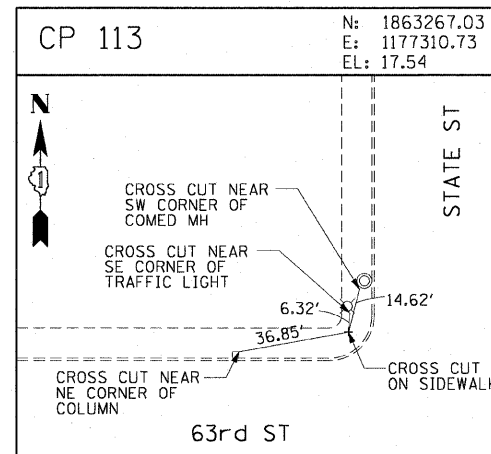
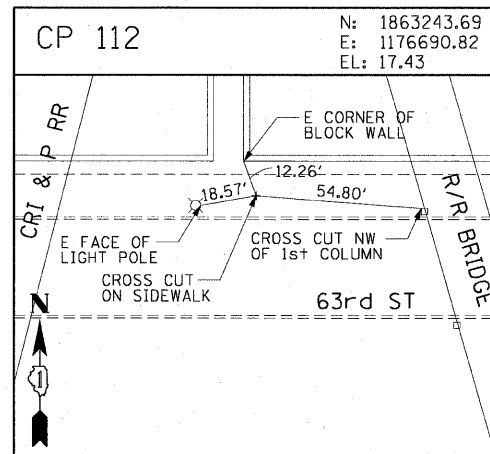
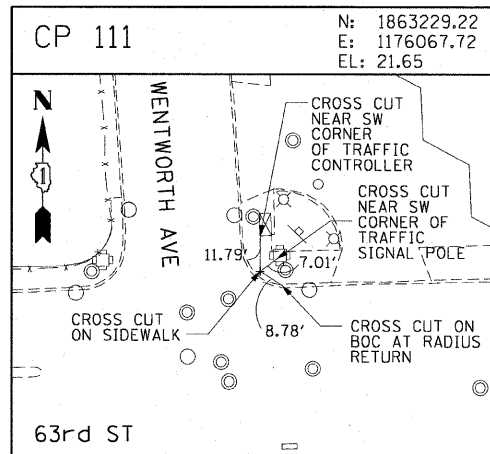
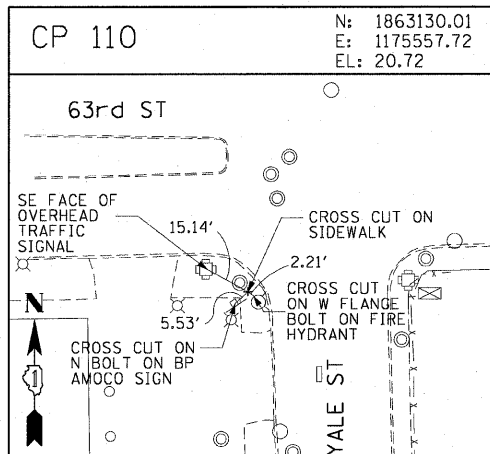
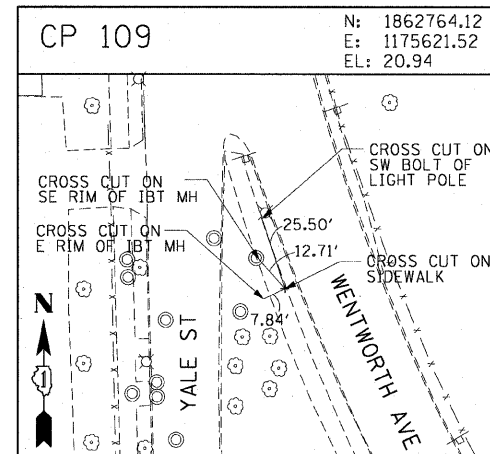
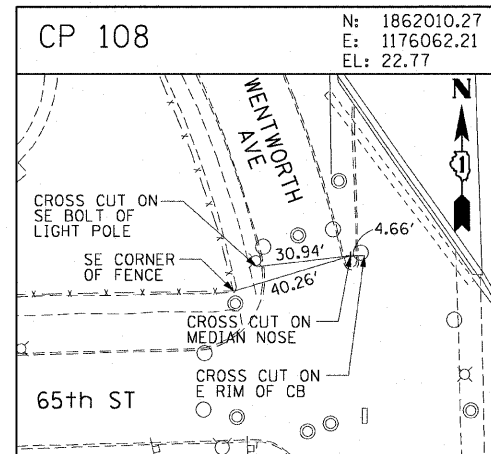
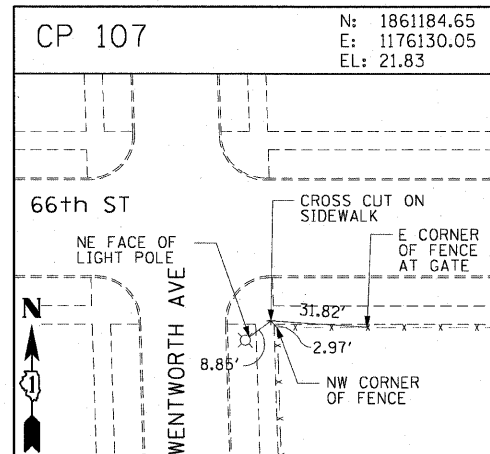
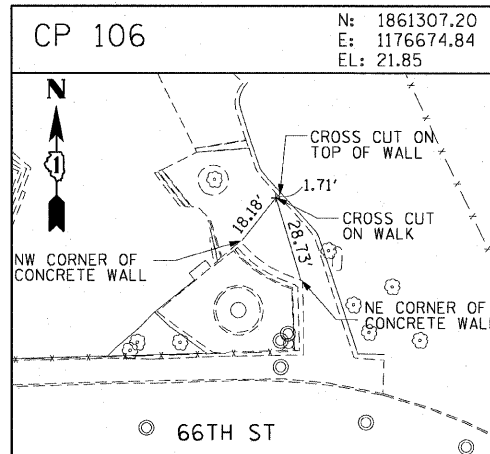
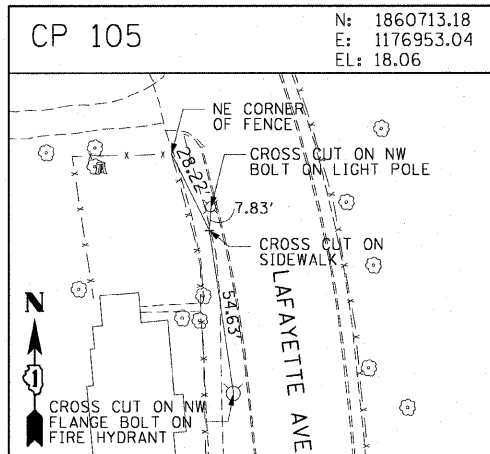
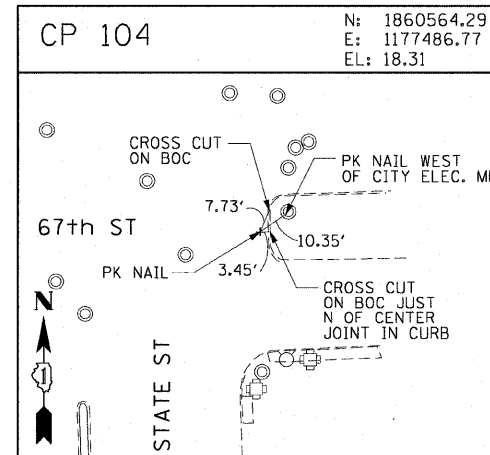
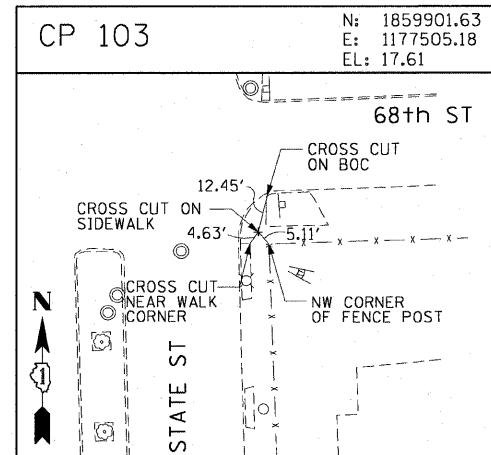
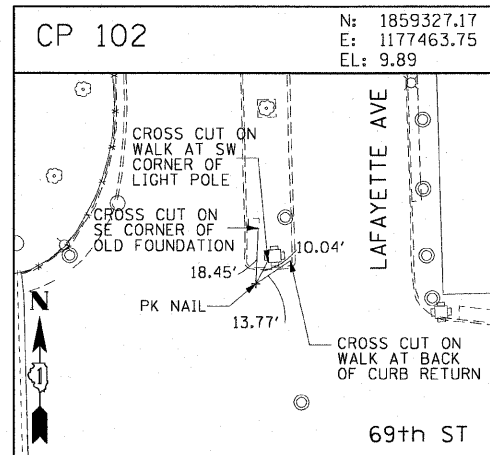
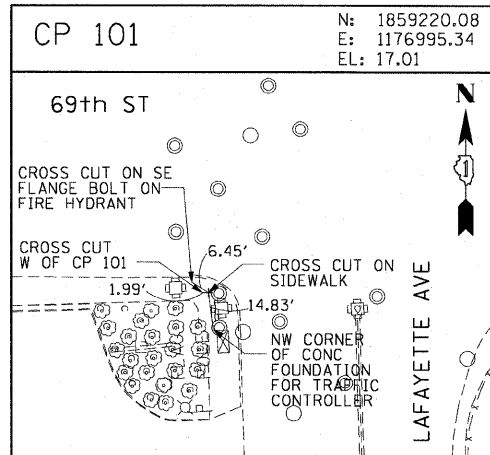
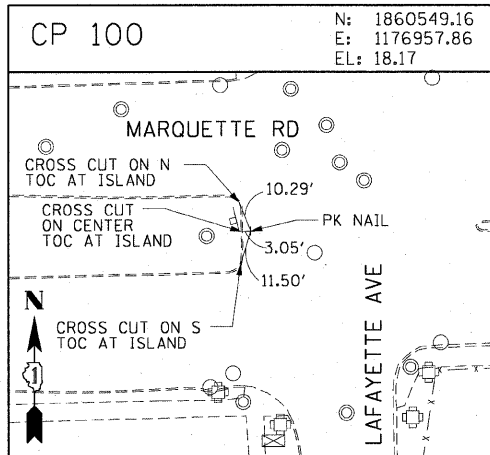
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
**ALIGNMENT PLAN**

SCALE: 1"=100'  
DATE: JANUARY 14, 2009  
DRAWN BY: NJH  
CHECKED BY: RMG



1/13/2009 2:36:24 PM  
\\uscb\p207\p40468\p40468\c\1\28-Knee-wall-Fence\sta\contract-4\al40072a.stn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60888				



AECOM

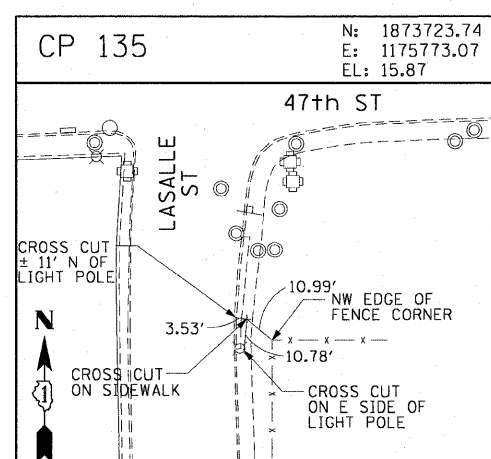
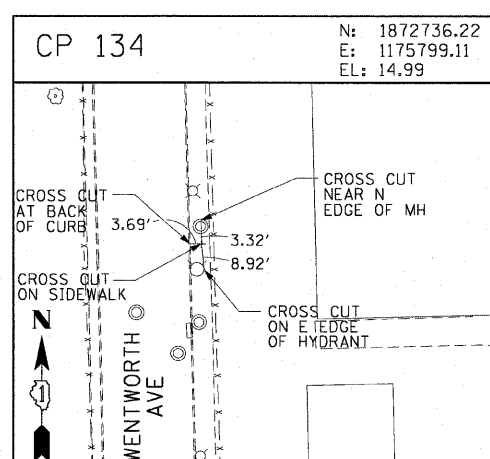
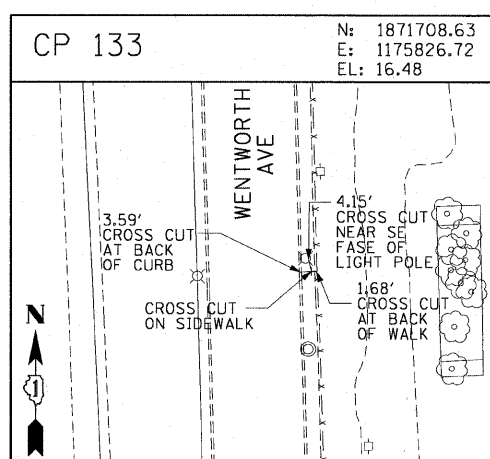
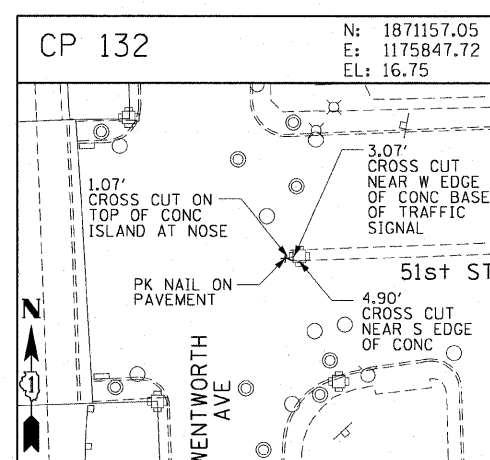
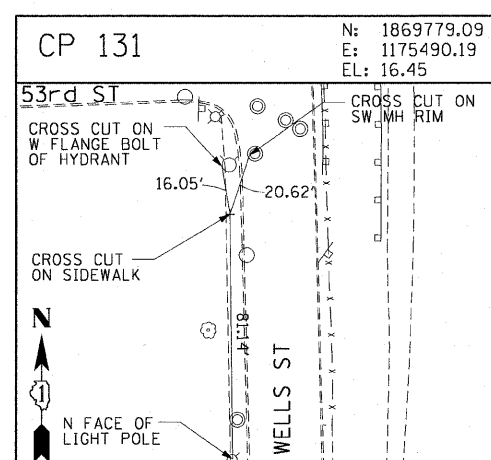
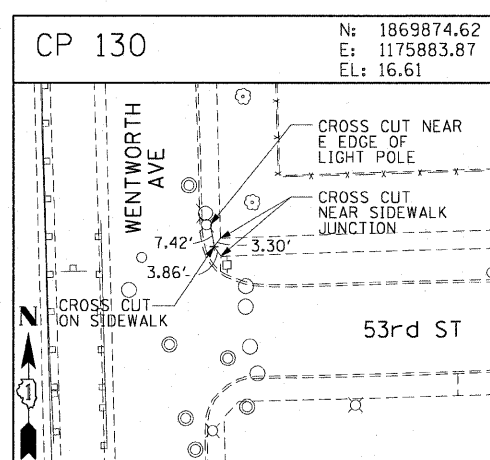
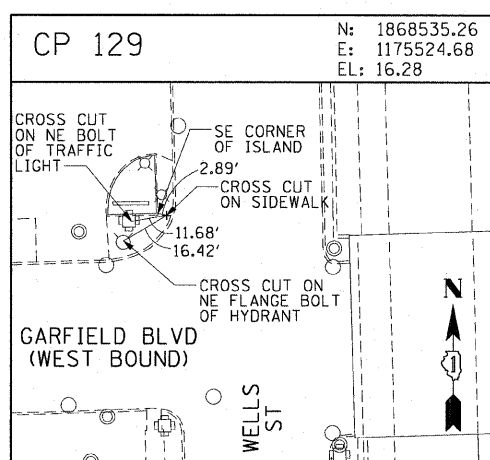
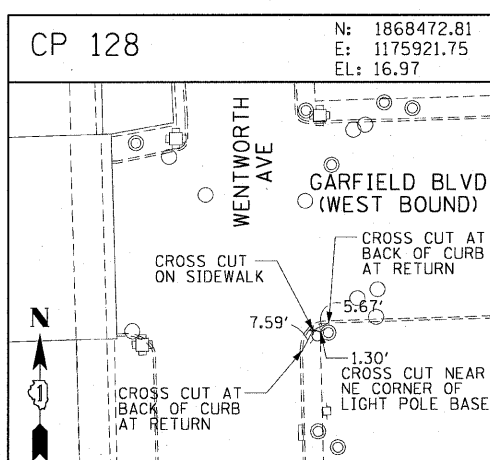
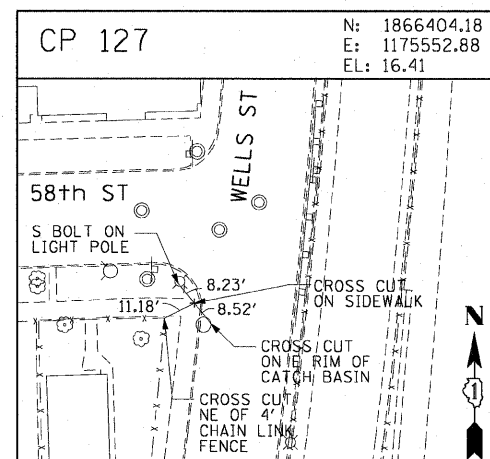
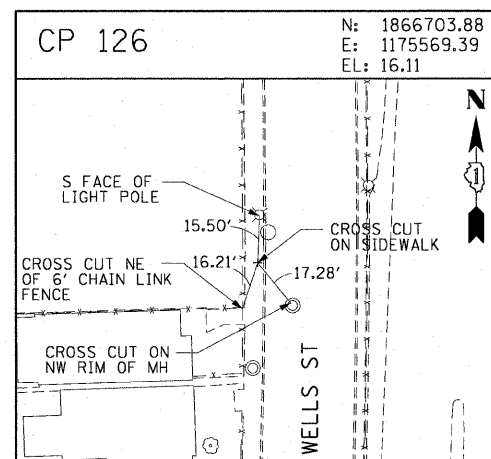
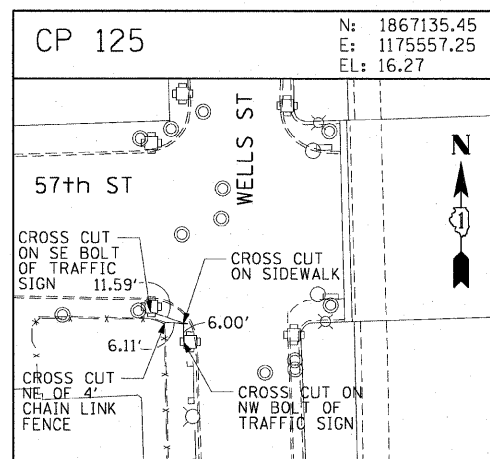
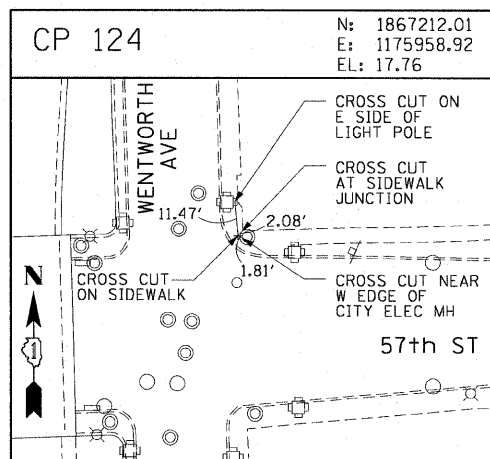
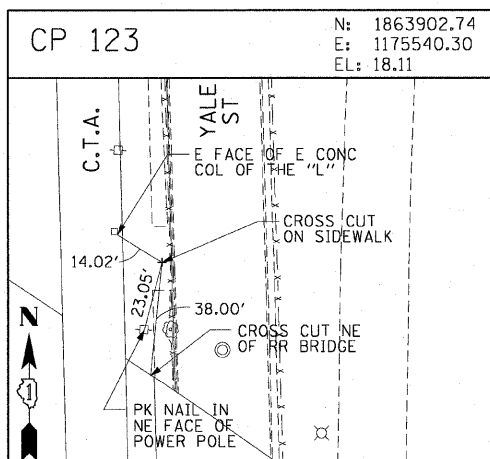
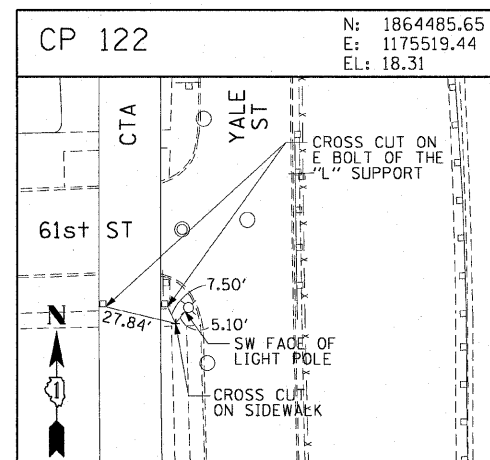
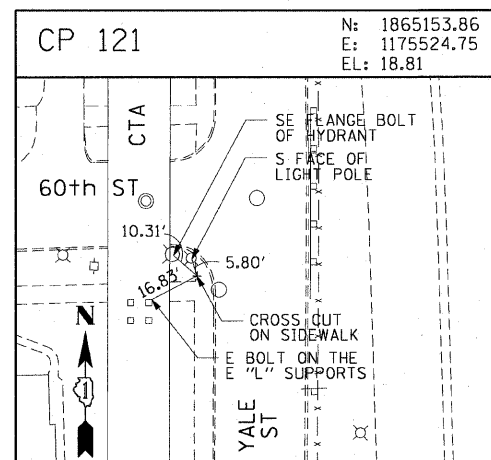
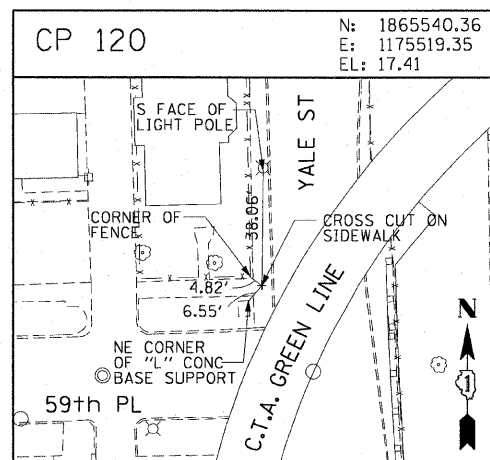
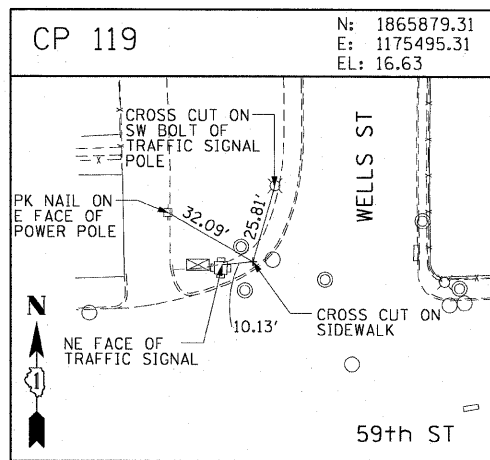
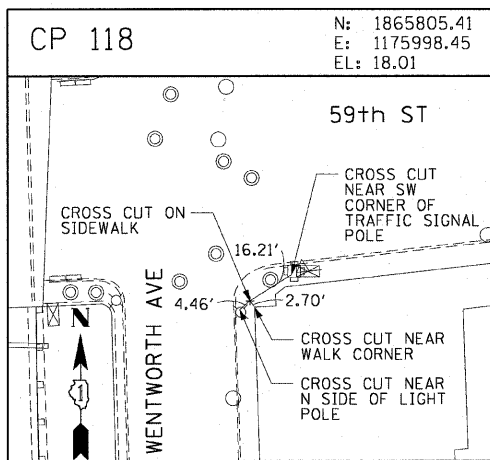
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'  
DATE: JANUARY 14, 2009  
DRAWN BY: MRK  
CHECKED BY: JAL

U:\scg\p207\_040468\p40468\_civil\22-knee\_wall\Fence.sit Contract 4\141012.sit 1/13/2009 2:36:27 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60B88				



AECOM

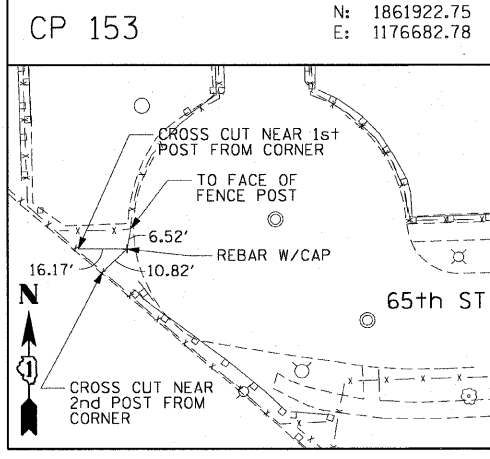
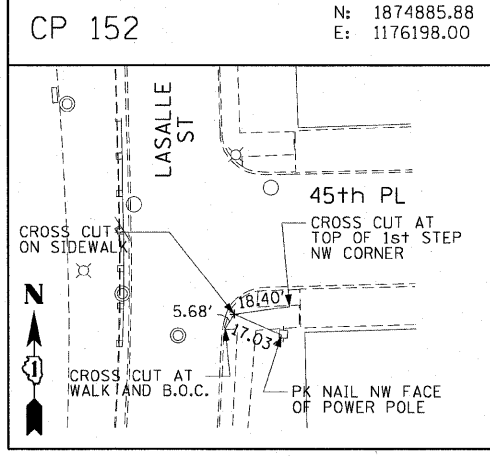
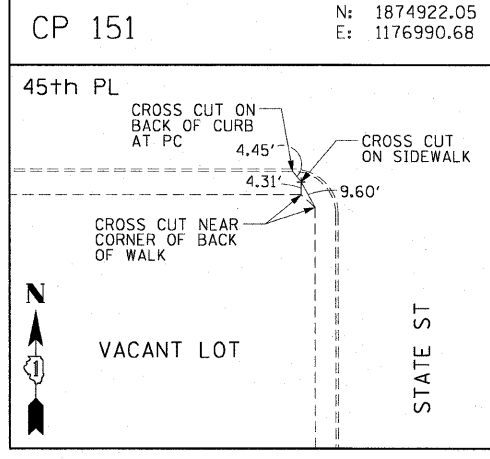
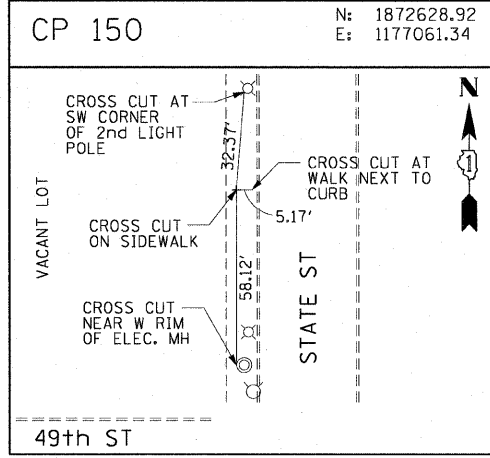
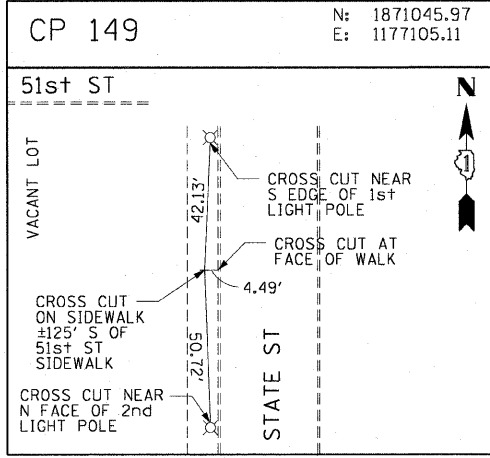
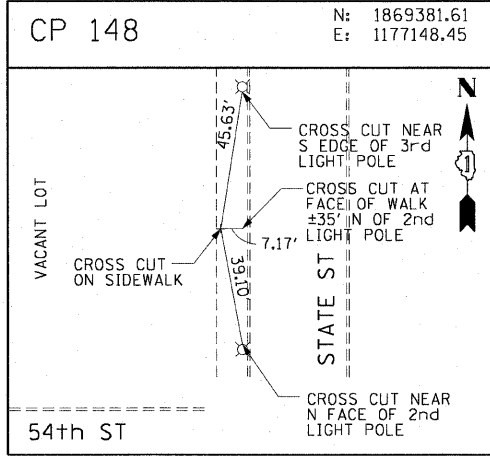
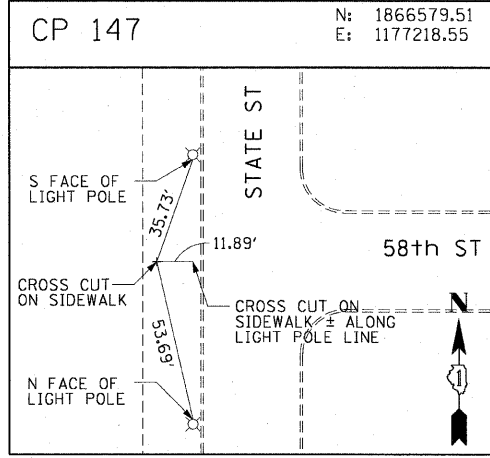
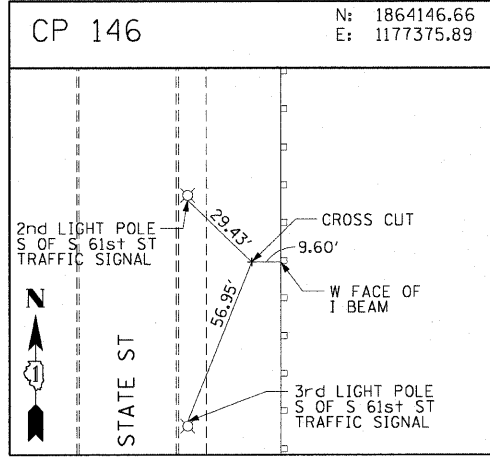
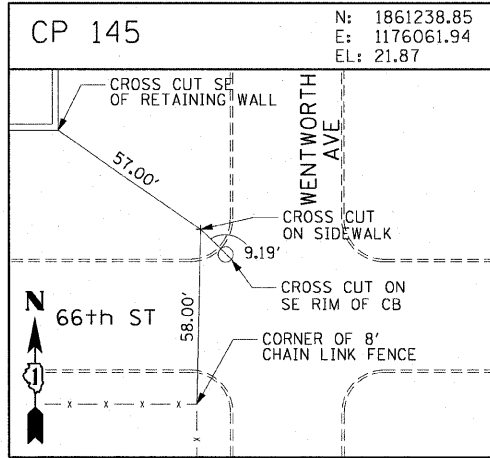
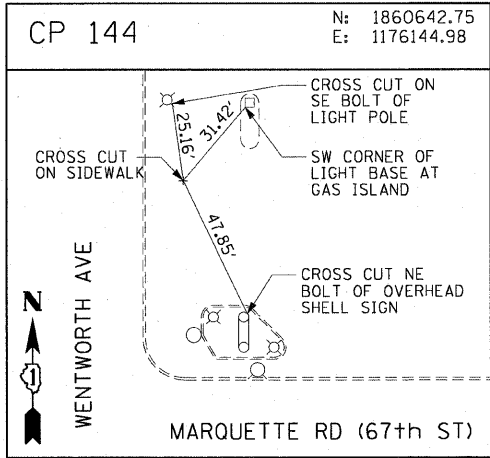
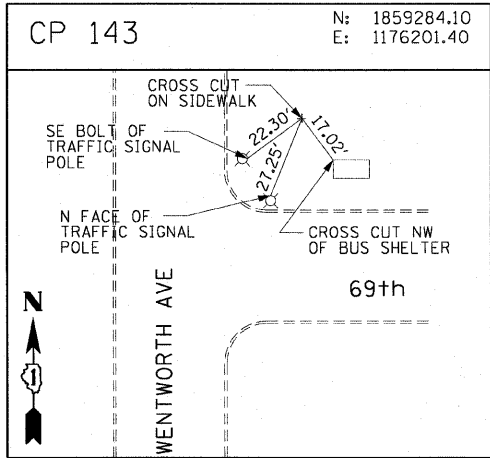
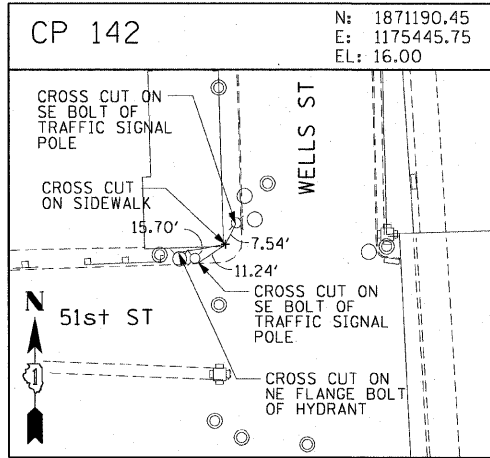
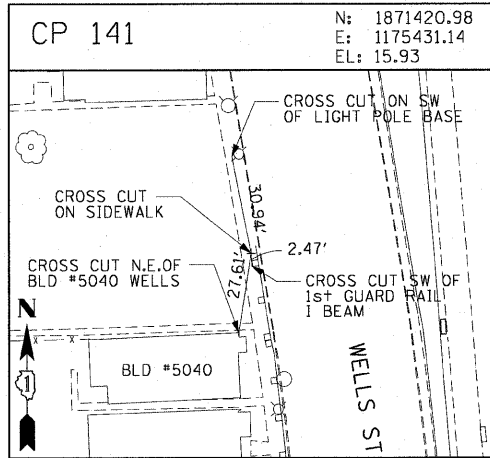
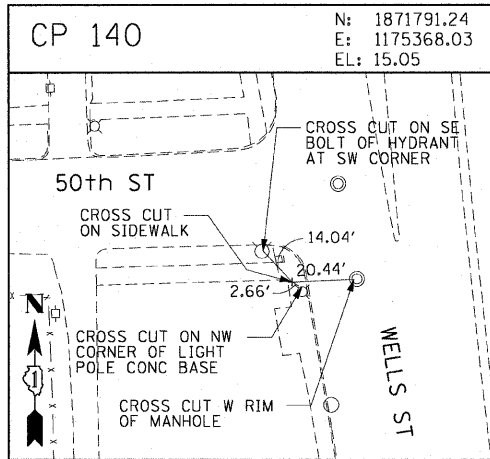
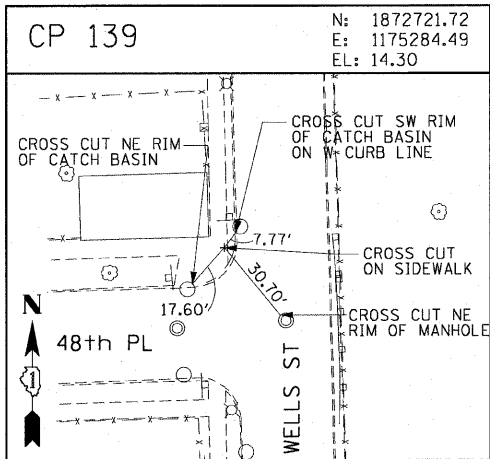
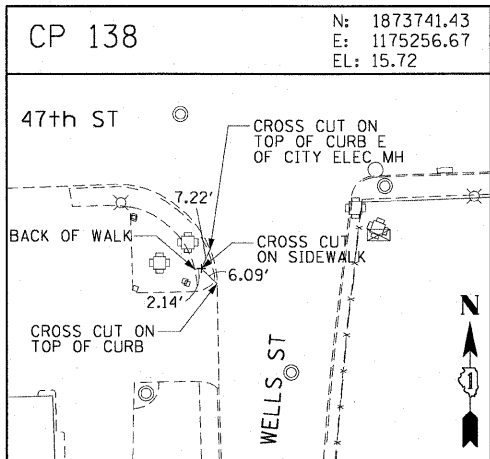
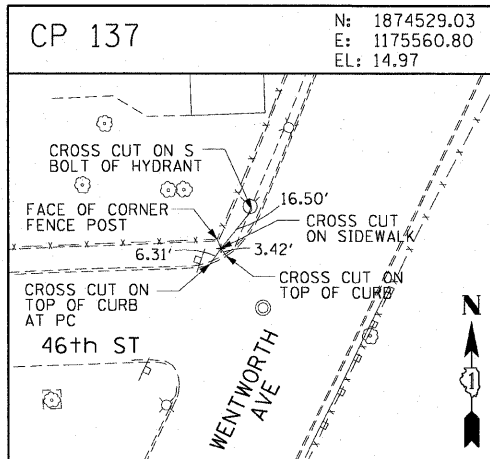
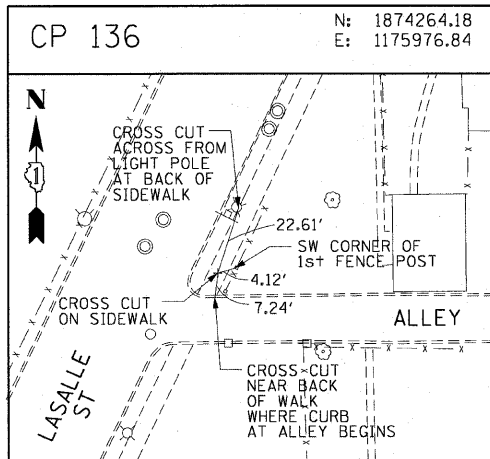
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'  
DATE: JANUARY 14, 2009  
DRAWN BY: MRK  
CHECKED BY: JAL

1/13/2009 2:36:28 PM \\uscbtj\p207\p40468\p40468.dwg\IN28-knee\_wal\_fence\contract-4\141012\2.dwg

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	13
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60B88				



AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
SURVEY TIES AND CONTROL POINTS

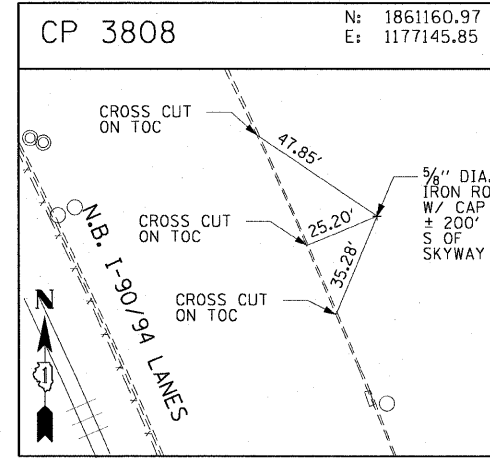
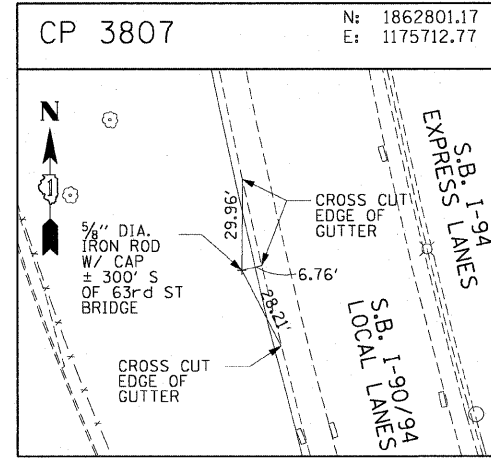
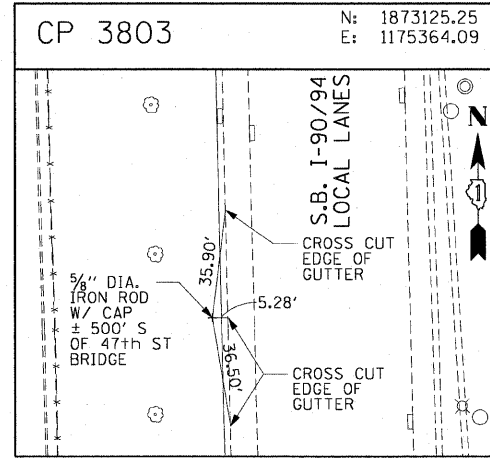
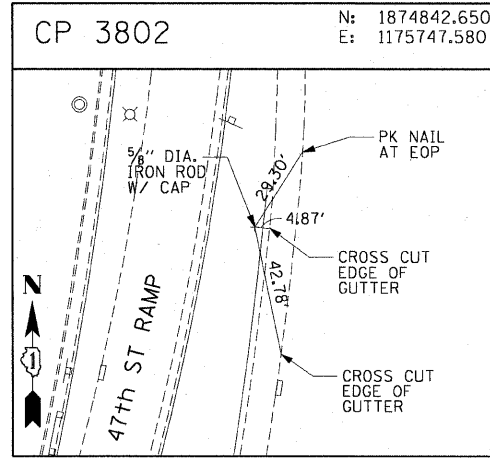
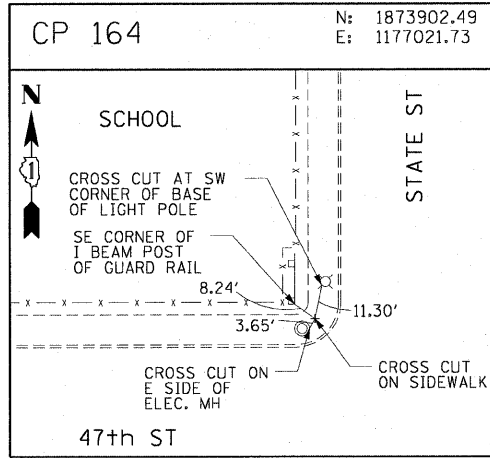
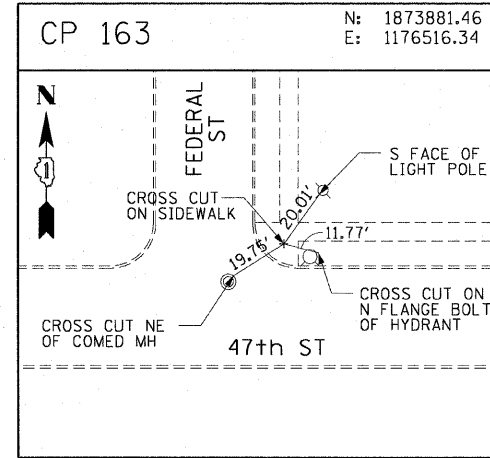
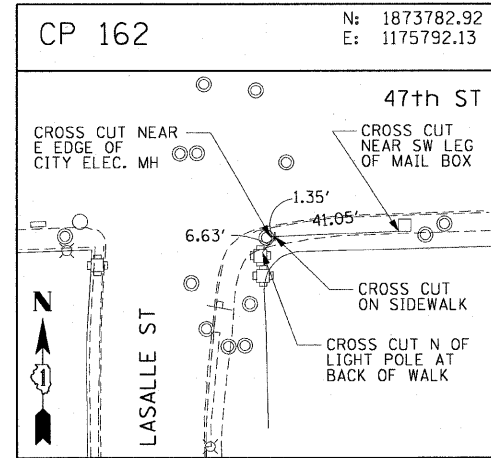
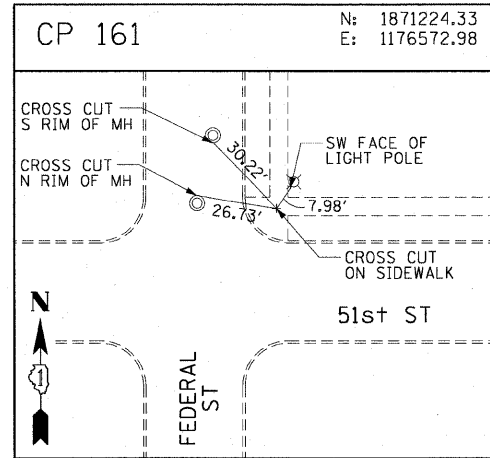
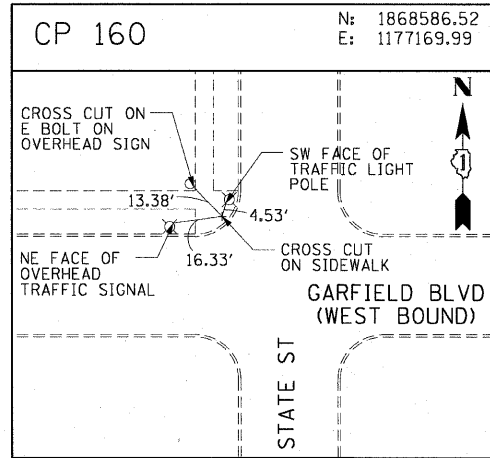
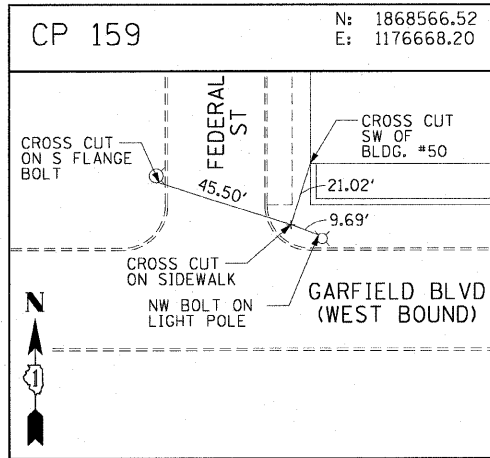
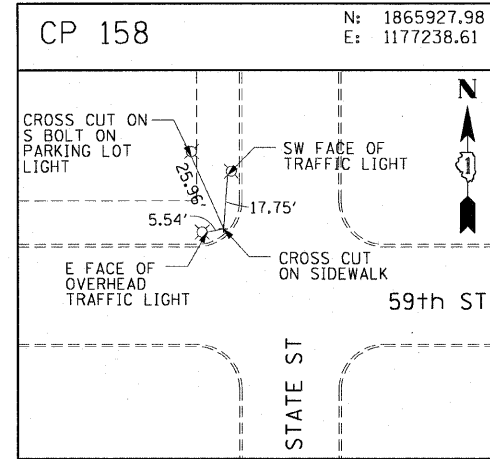
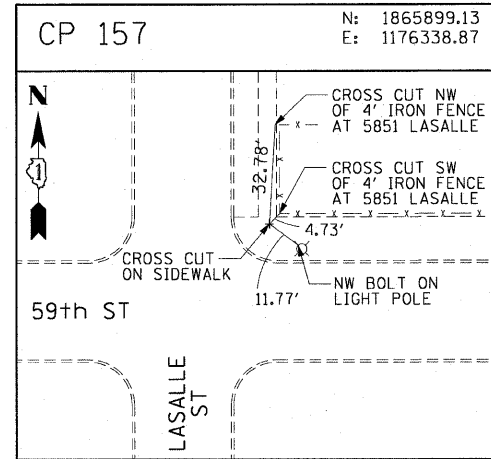
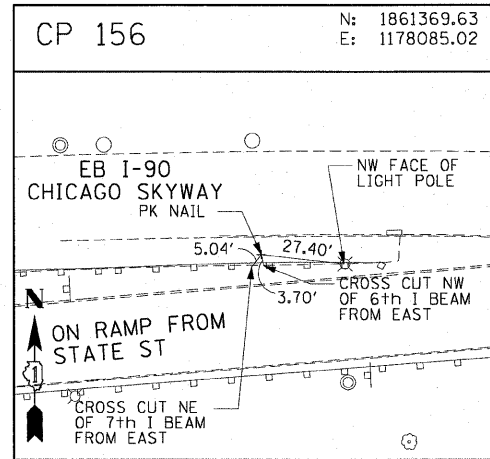
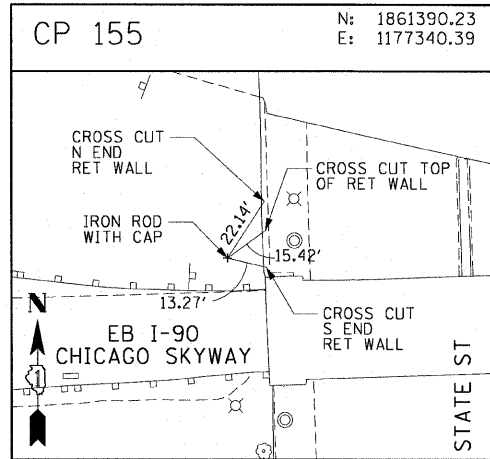
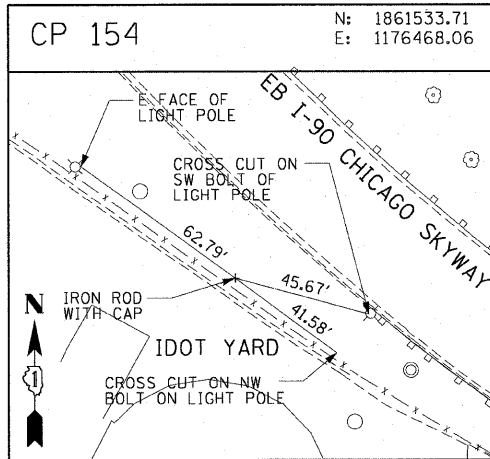
SCALE: 1"=30'  
DATE: JANUARY 14, 2009

DRAWN BY: MRK  
CHECKED BY: JAL

1/13/2009 2:36:29 PM \\usctgfd207\p40466\p40466\civil\28-knee-wall\Fence\contract\41a1410132a.dwg

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	14
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'  
DATE: JANUARY 14, 2009  
DRAWN BY: MRK  
CHECKED BY: JAL

\\uscbgfd207\p40468\p40468\m128\knee-wall\_fence\stn\contract\_4\1410142a.dwg 2/3/2009 2:36:29 PM

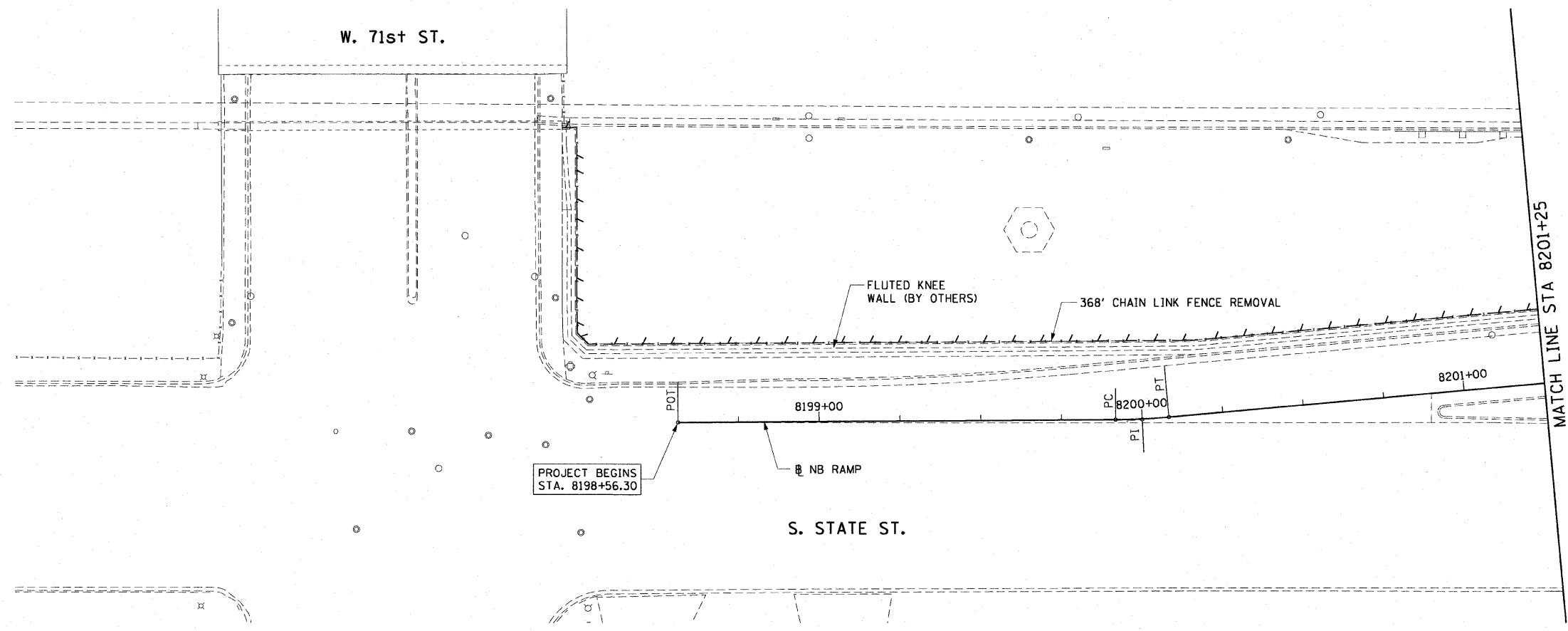


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	15
STA. 8198+56.30		TO STA. 8201+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60B88				

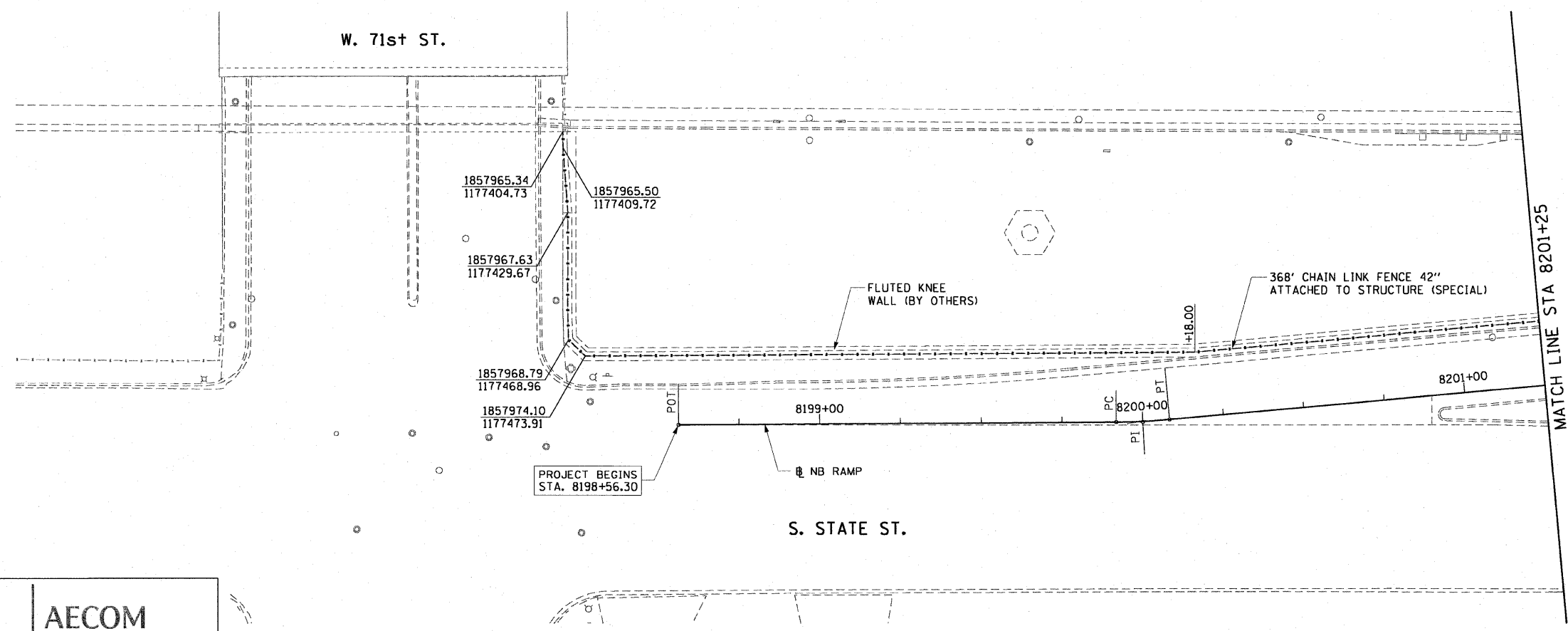


LEGEND:

--- LINEAR REMOVALS



EXISTING CONDITIONS AND REMOVAL  
PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.
4. THE PROPOSED FENCE SHALL ALIGN WITH THE FENCE ATTACHED TO THE 71ST STREET BRIDGE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
EXISTING AND PROPOSED ROADWAY PLANS

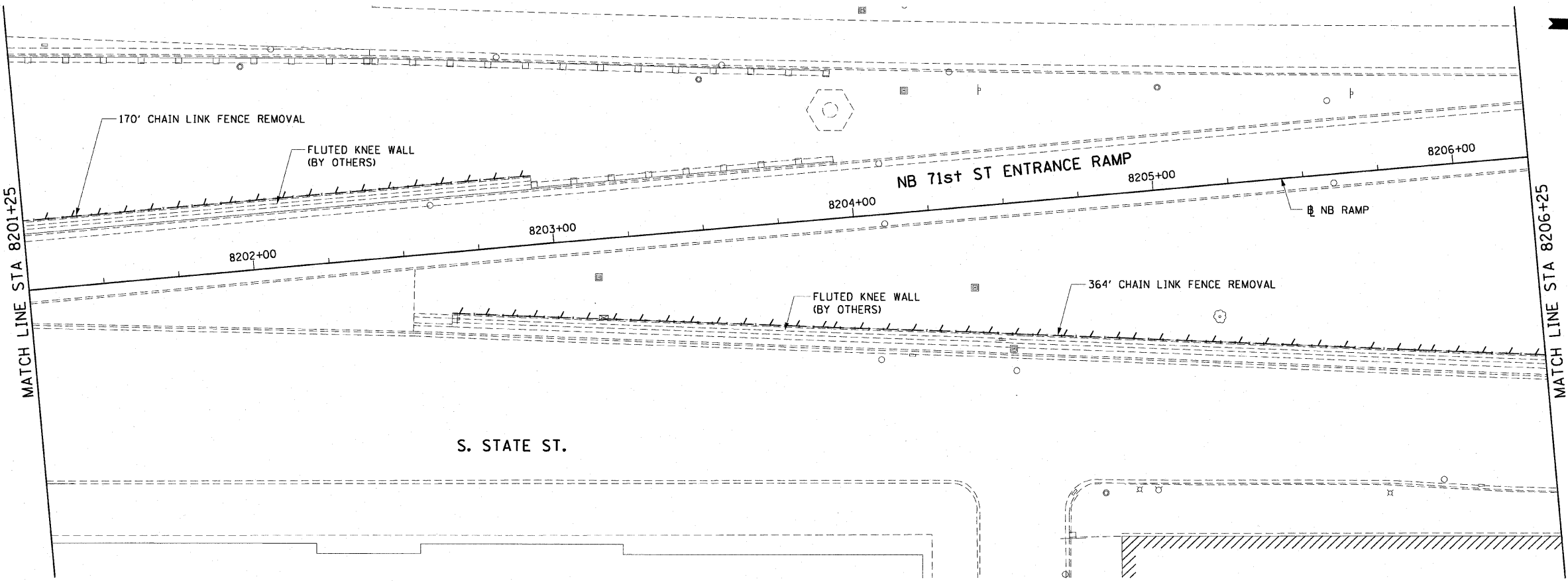
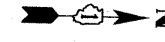
SCALE: 1"=20'  
DATE: JANUARY 14, 2009  
DRAWN BY: NJH  
CHECKED BY: RMG

AECOM

\\uschoff\p207\p40465\p40468\civil\28-knee-wall-fence\contract\4\p40468\15.dwg 2:36:31 PM 1/13/2009

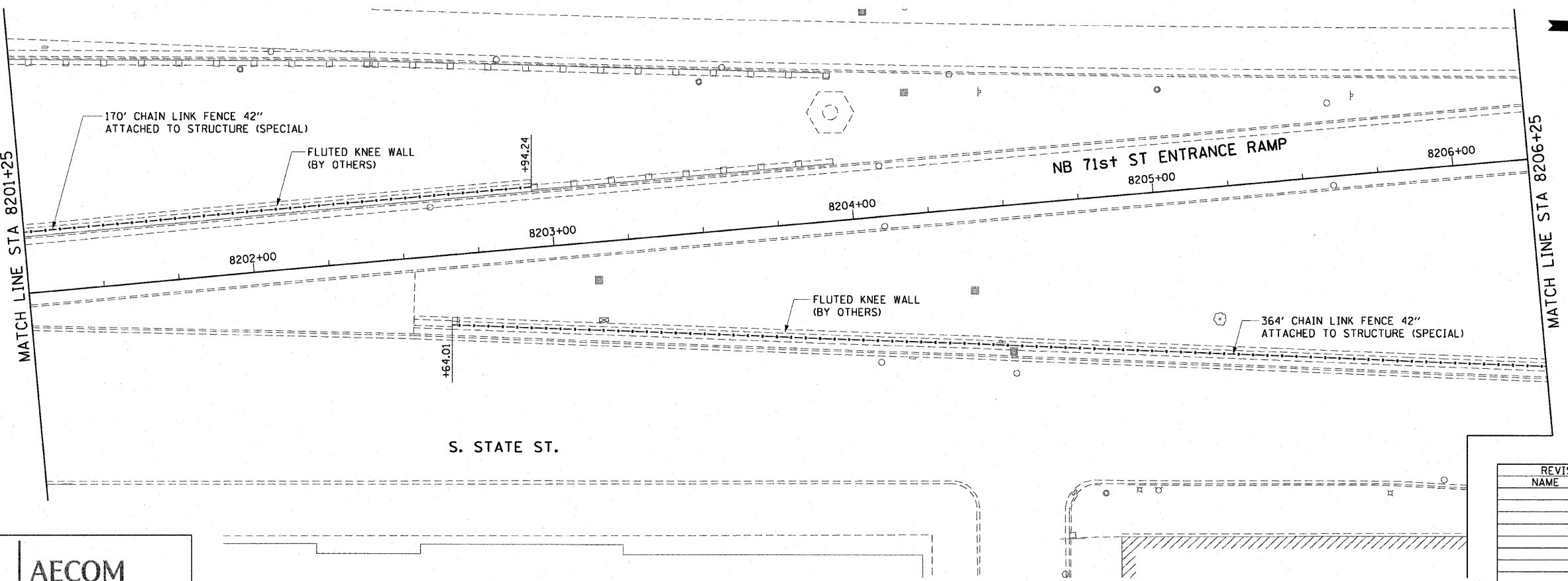


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	16
STA. 8201+00		TO STA. 8206+25		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60888				



LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.

AECOM

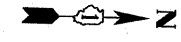
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

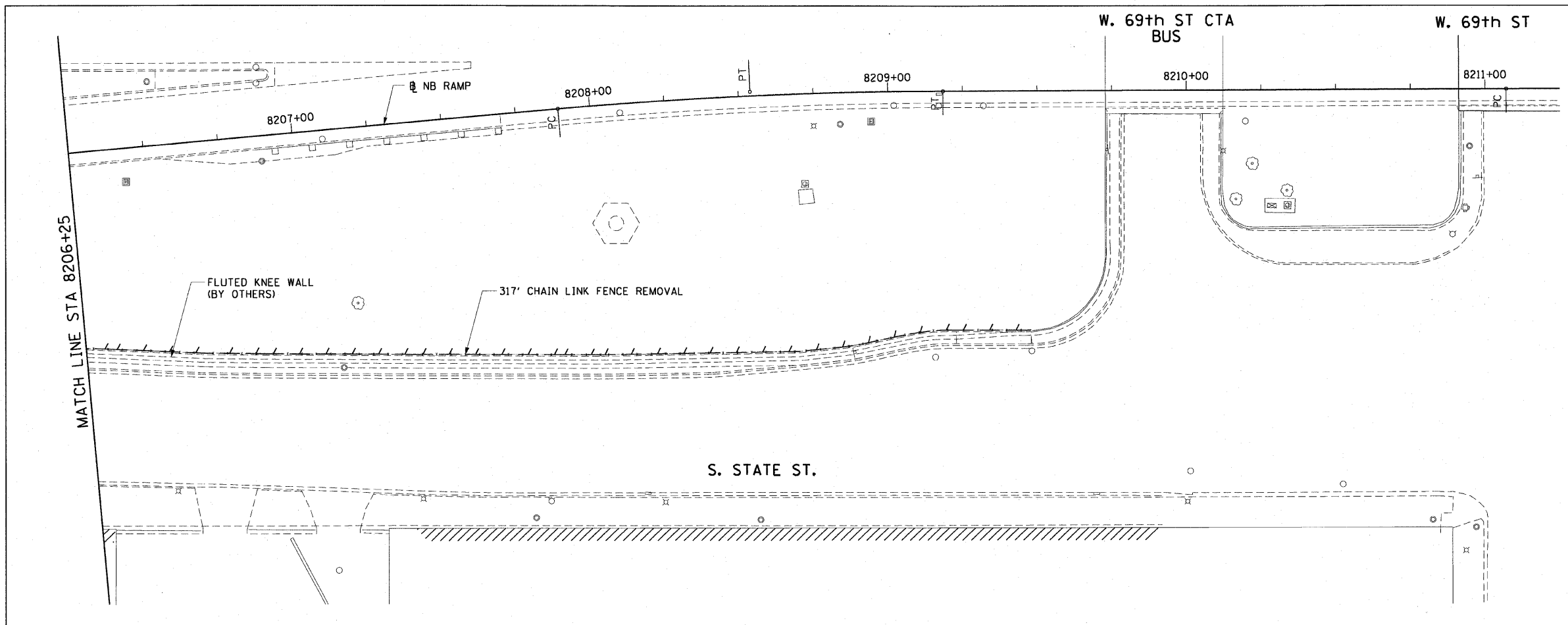
SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

N:\usg\p1207\p40468\p40468\civil\28\_Knee\_Wall\Fence\_Site\contract\_4\p40468\28.stb  
 1/13/2009 2:36:31 PM

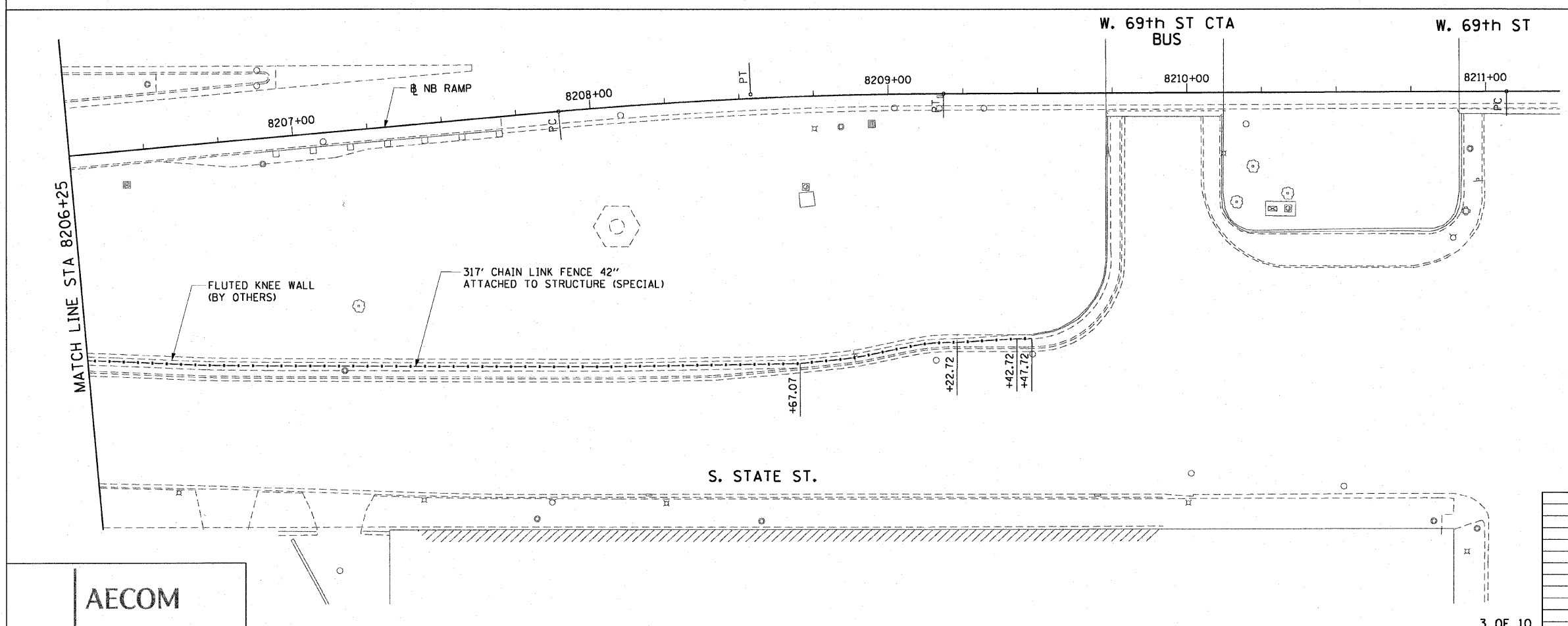
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	17
STA. 8206+25		TO STA. 8209+47.76		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60888				



LEGEND:  
 LINEAR REMOVALS



EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.
  4. THE PROPOSED FENCE AT STATION 8209+47.72 SHALL ALIGN WITH THE FENCE ATTACHED TO THE 69TH STREET CTA BRIDGE.

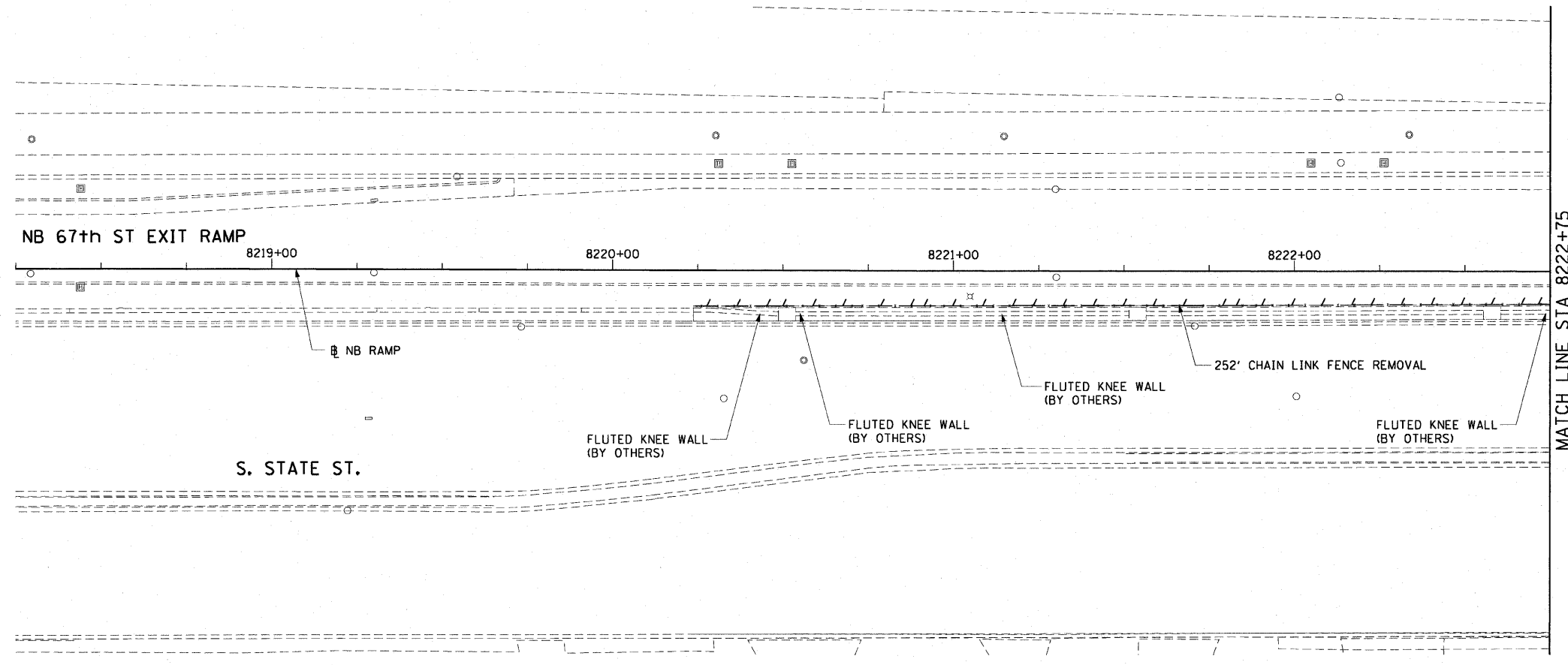
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG



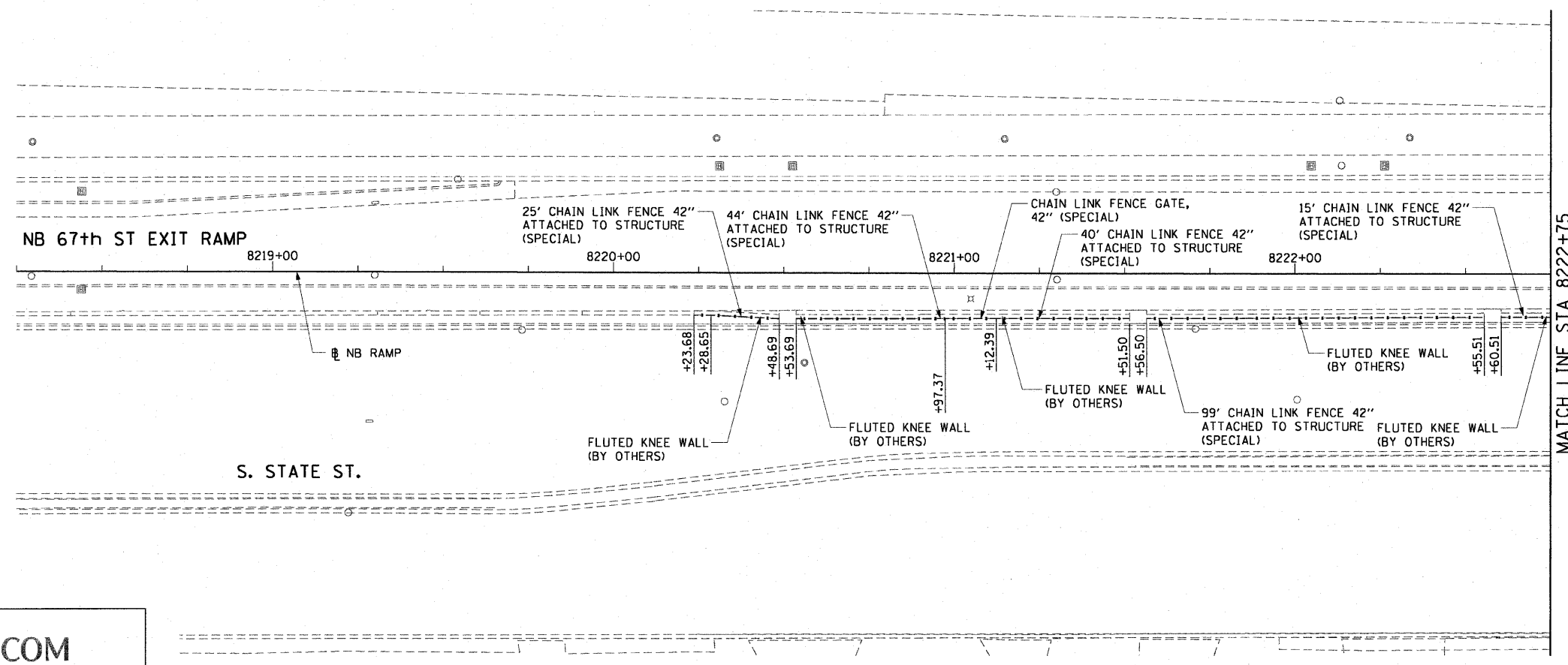
V:\scg\p207\p40466\p40466.ctb\1128-knee\_wall\_fence.sht contract #100410032.sht 2:36:31 PM 1/13/2009



LEGEND:  

 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.
  4. THE PROPOSED FENCE AT STATION 8220+23.68 SHALL ALIGN WITH THE FENCE ATTACHED TO THE RETAINING WALL.
  5. COORDINATE WITH CONTRACT 62983 FOR THE LOCATIONS OF LIGHT POLES ATTACHED TO THE KNEE WALL.

REVISIONS	
NAME	DATE

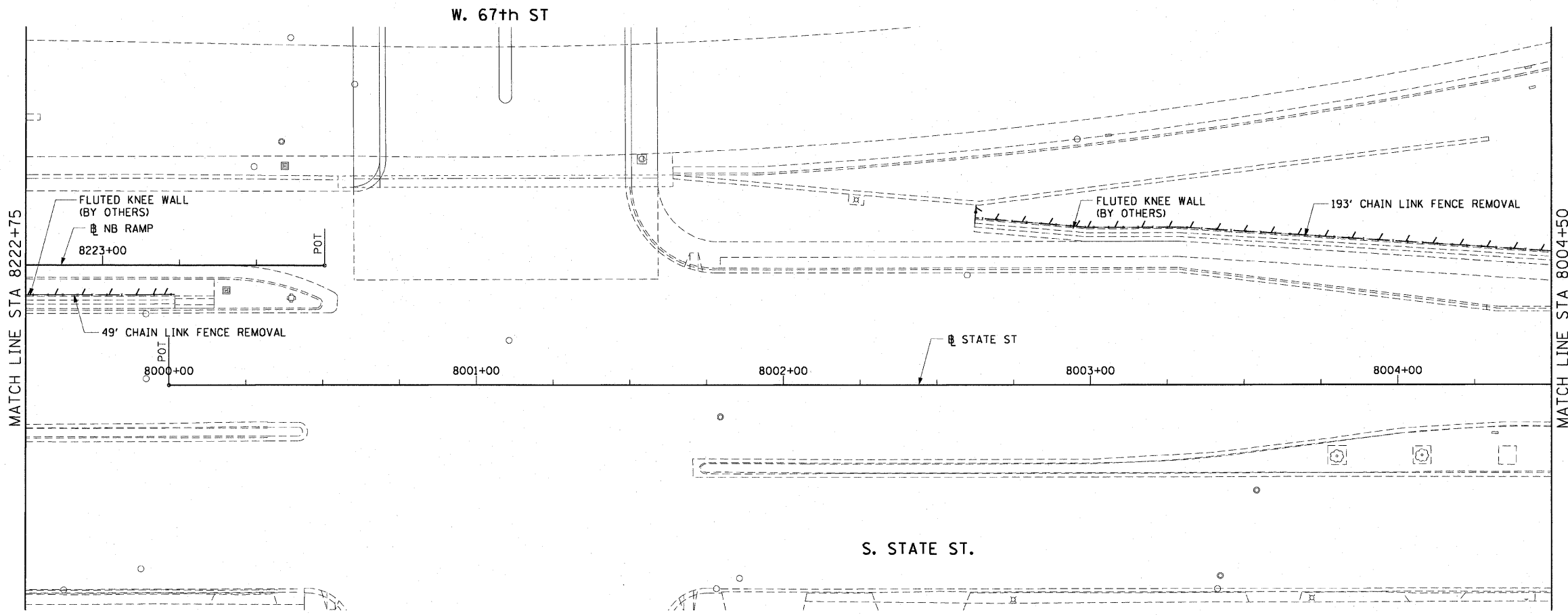
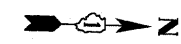
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

N:\scg\p1\207\p40468\p40468.dwg\1\28-knee\_wall\_fence\sh\contract\_4\p40468.dwg  
 2:36:32 PM  
 1/15/2009

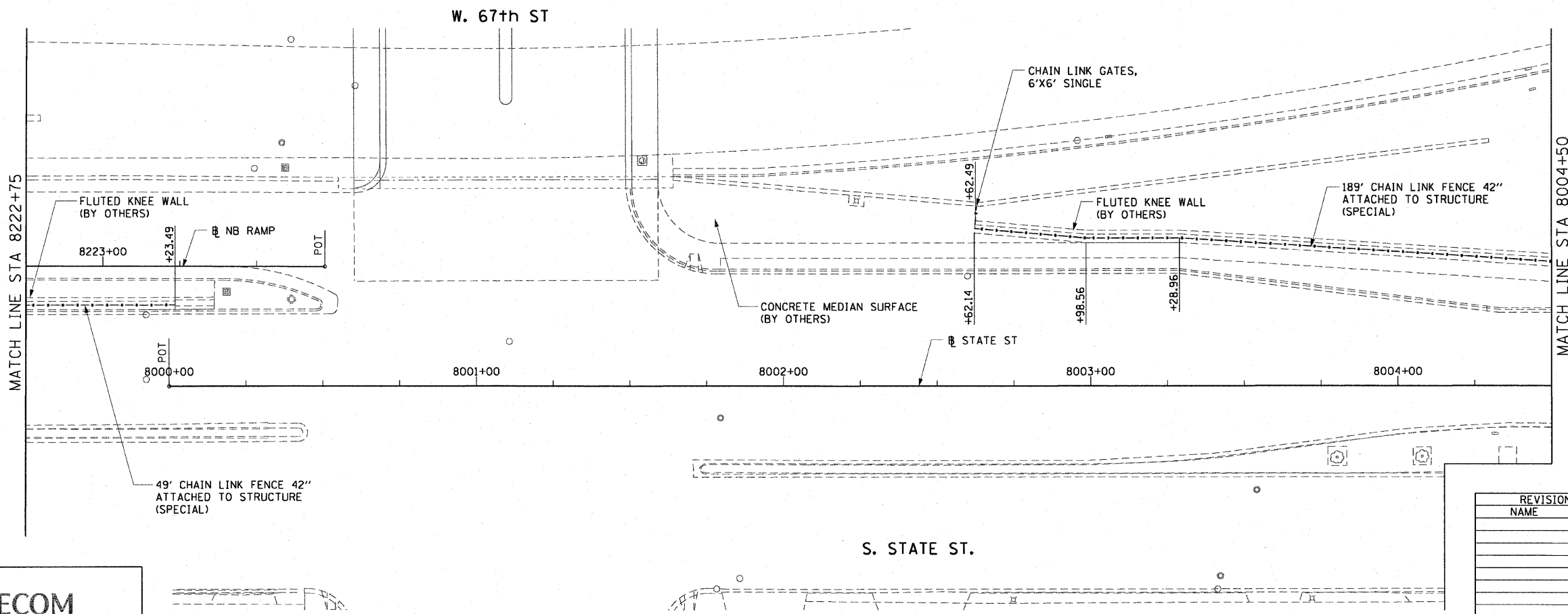
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	19
STA. 8222+75		TO STA. 8009+50		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG



N:\scg\1\p207\p40465\p40465.dwg\128\_line\_wall\_fence\contract\_4\app\60B88.dwg  
 1/13/2009 2:36:32 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	20
STA. 8004+50		TO STA. 8008+81.84		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60888

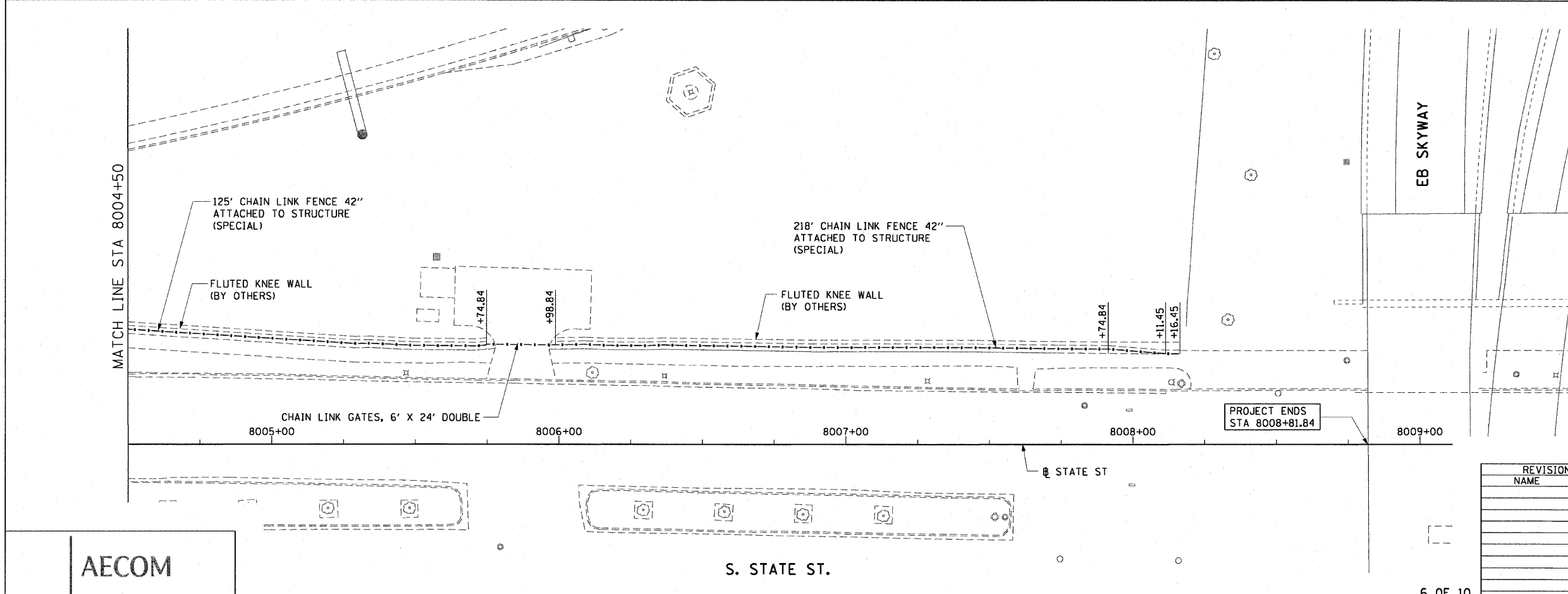
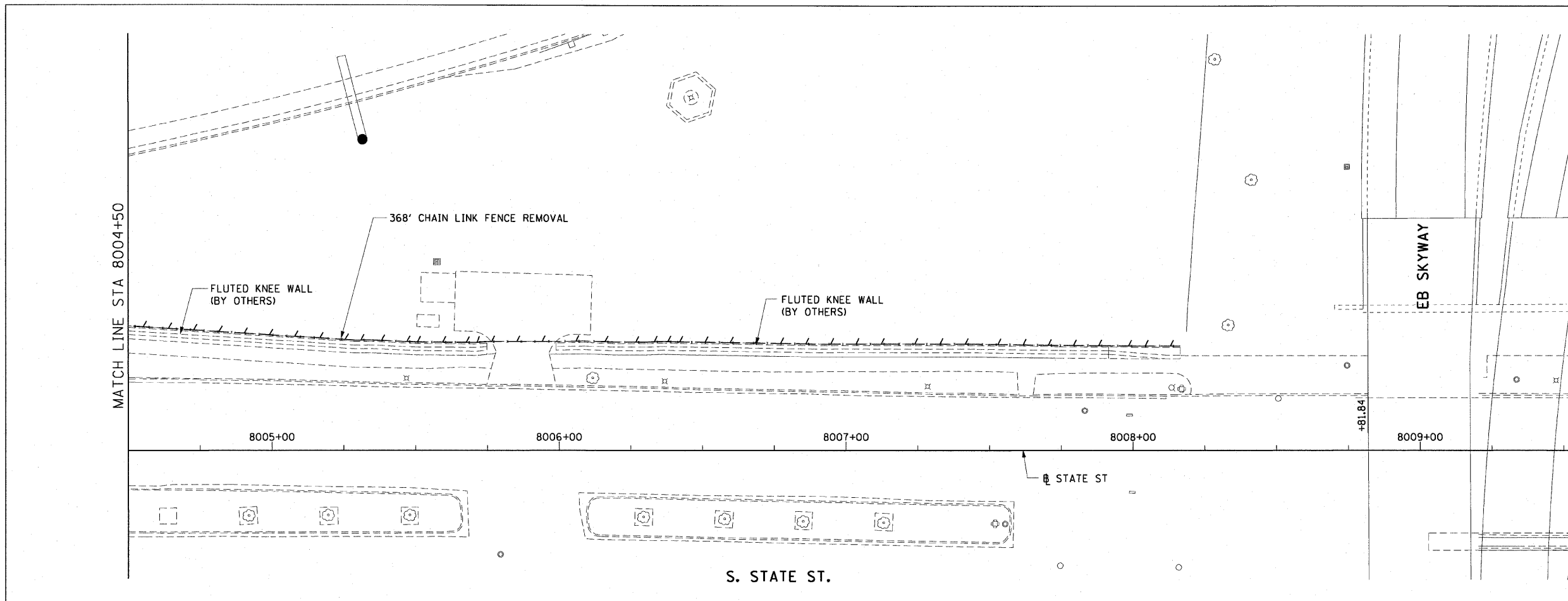
LEGEND:

--- LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
PROPOSED IMPROVEMENTS

NOTES:

1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62983.



AECOM

REVISIONS	
NAME	DATE

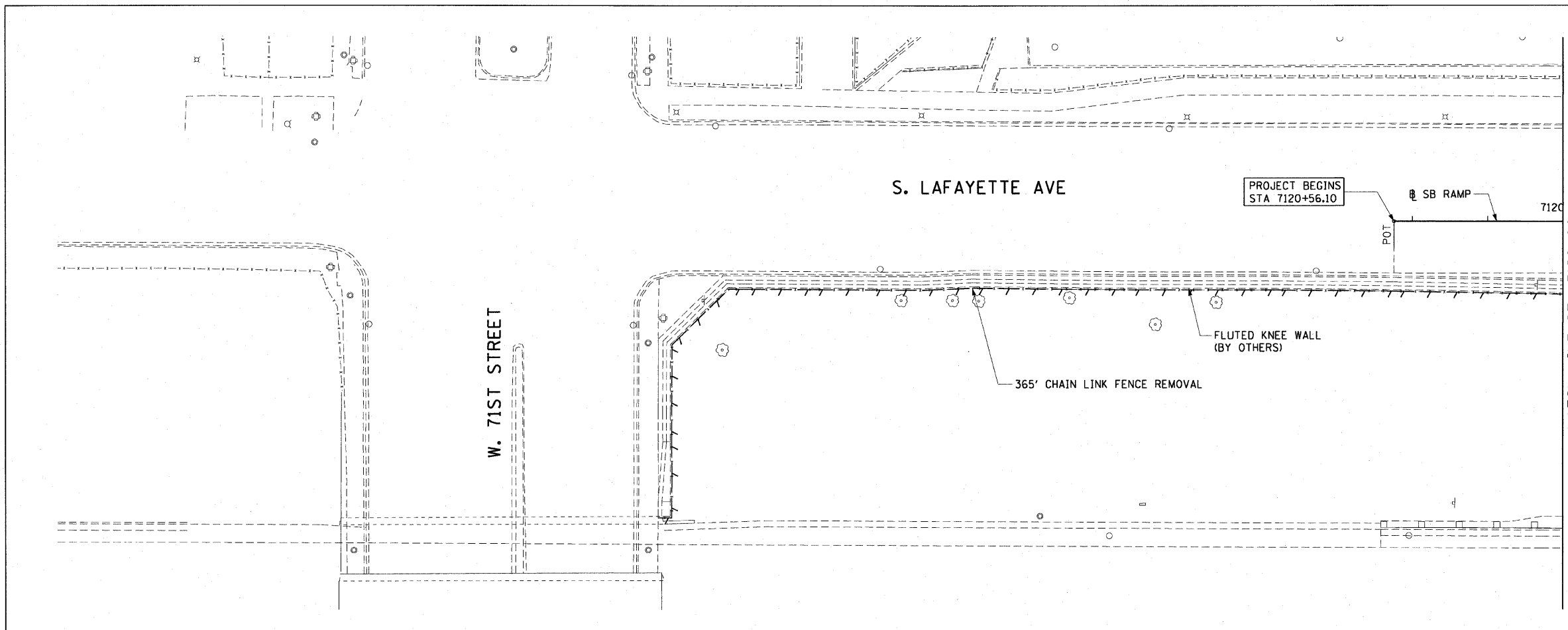
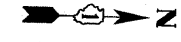
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
DATE: JANUARY 14, 2009  
DRAWN BY: NJH  
CHECKED BY: RMJ

V:\scg\p201\p40468\p40468.ctb\1128-knee\_wall\Tencos\11\contract\_4\p40468.dwg 2:36:32 PM 1/13/2009

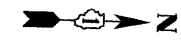
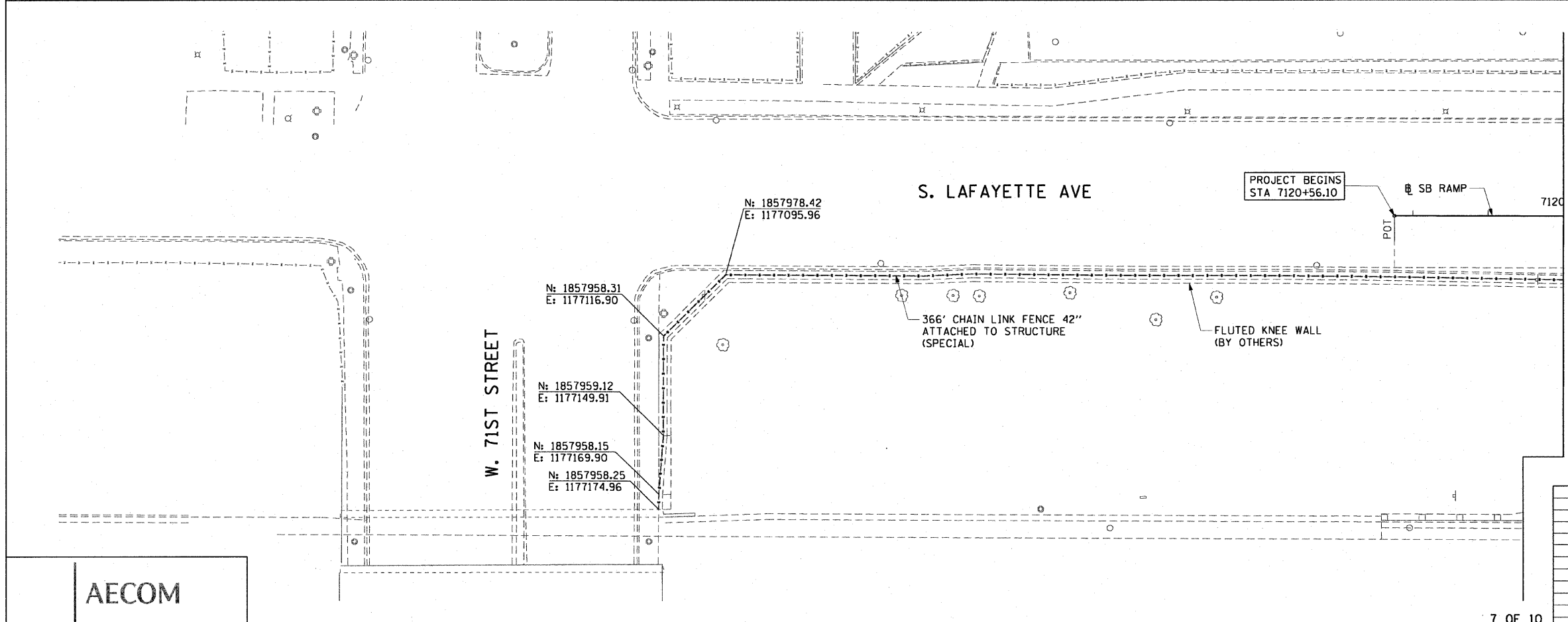
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	21
STA. 7120+00		TO STA. 7120+56.10		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60888



LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62984.

AECOM

REVISIONS	
NAME	DATE

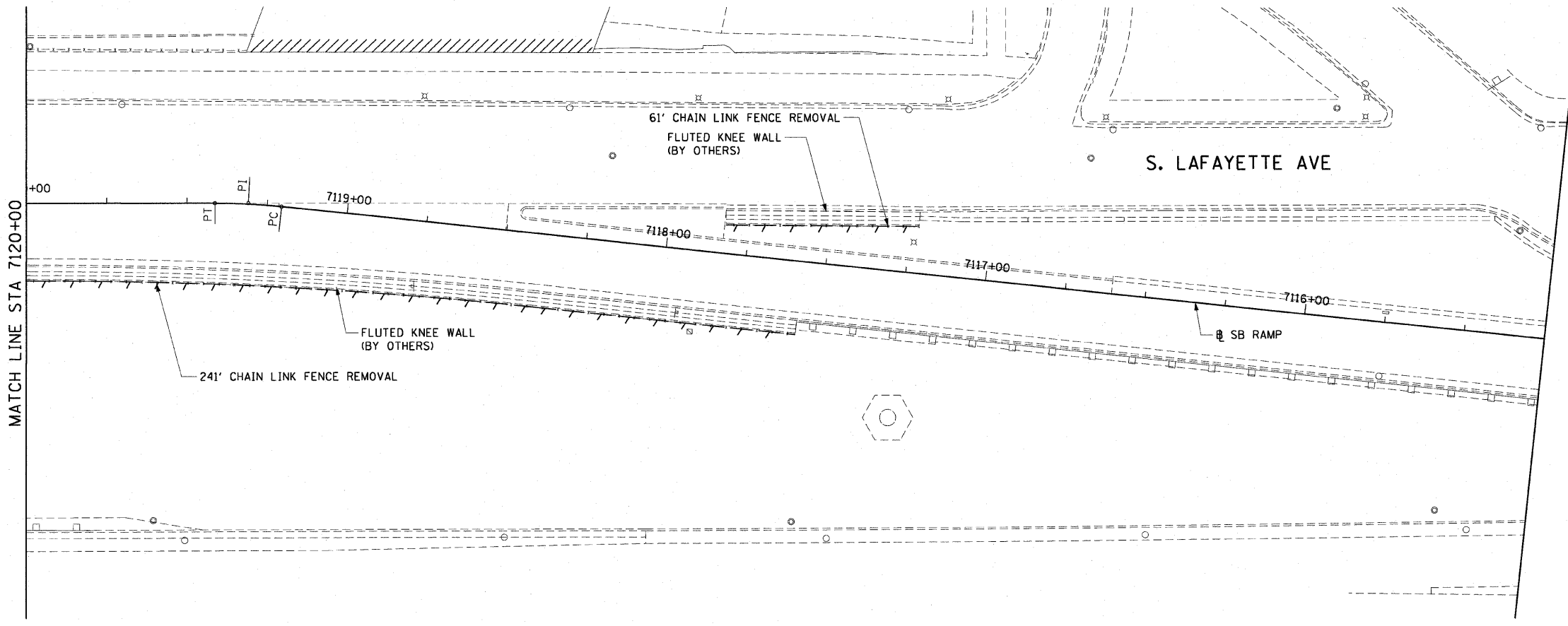
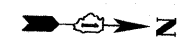
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

1/15/2009 2:36:33 PM

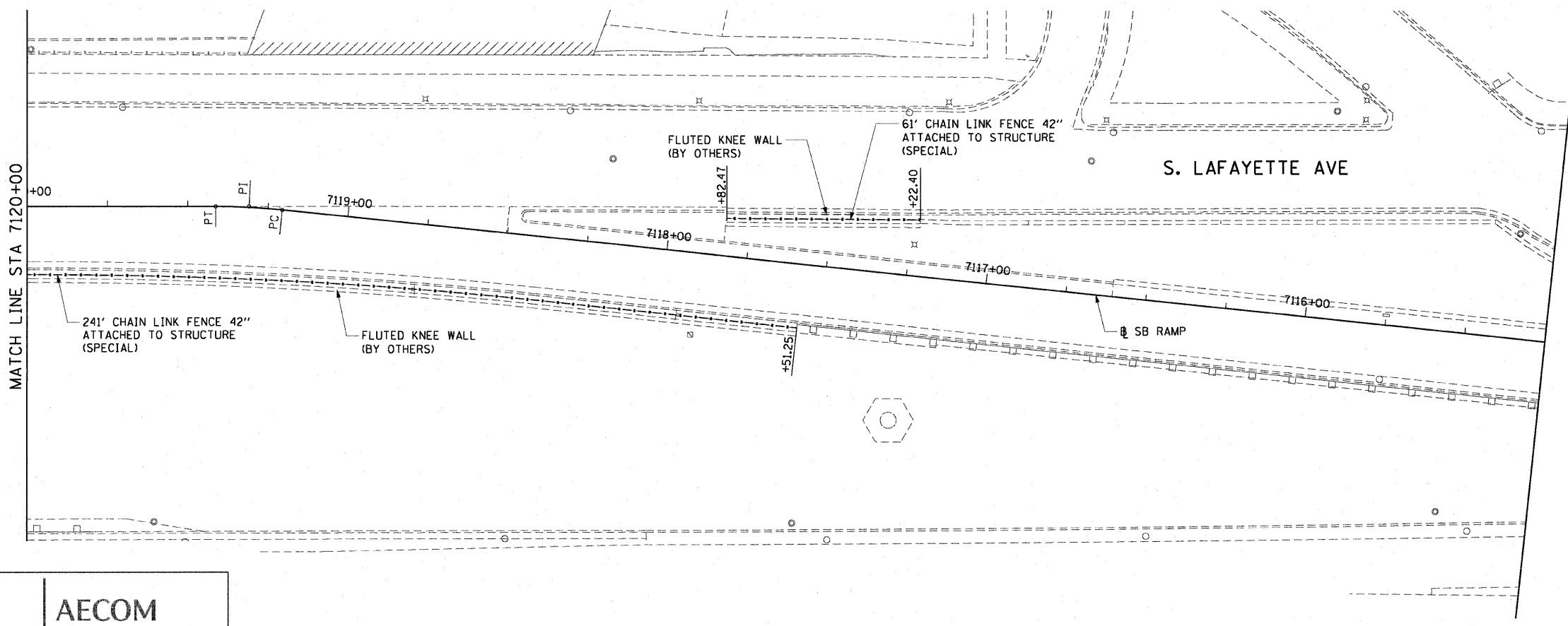
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	22
STA. 7115+25		TO STA. 7120+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

60888



LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62984.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

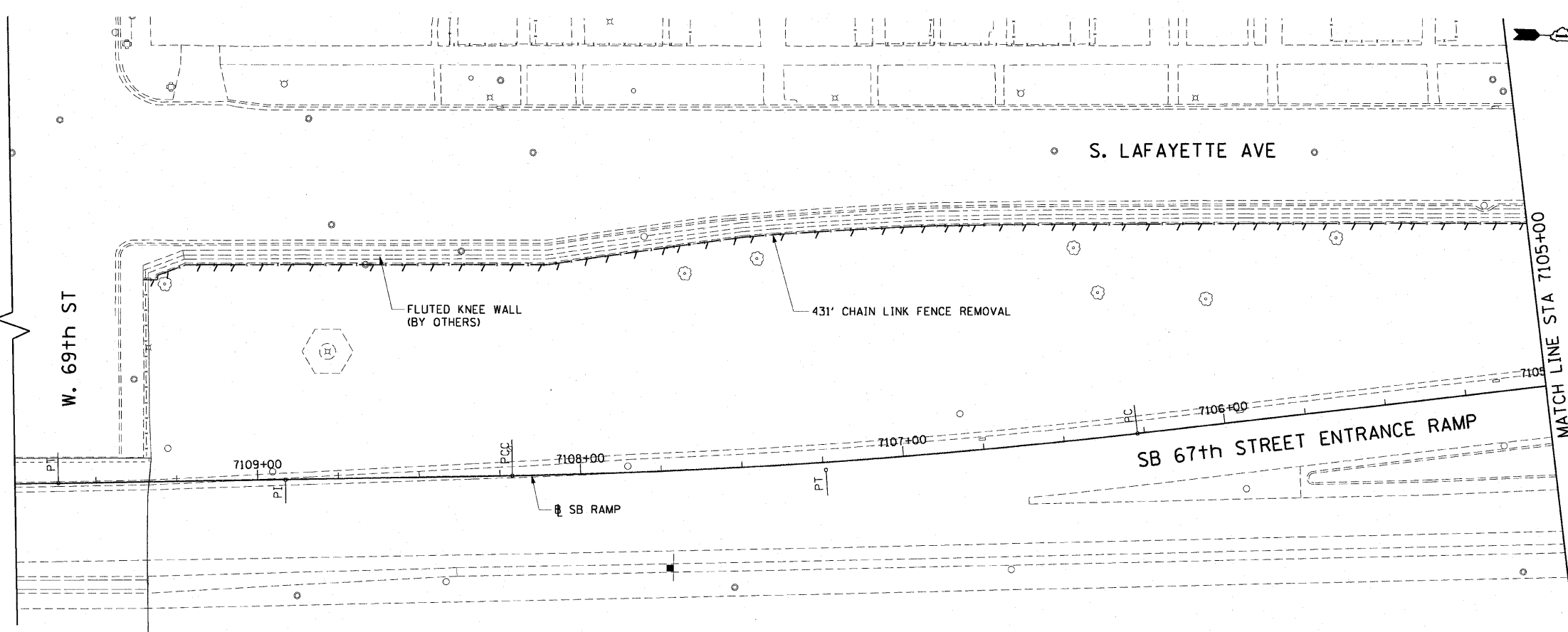


I:\scg\p207\p40465\p40465.ctb\N28-Knee-wall\Fence.ctb\contract 4\p40465.ctb  
 2/26/09 2:36:33 PM



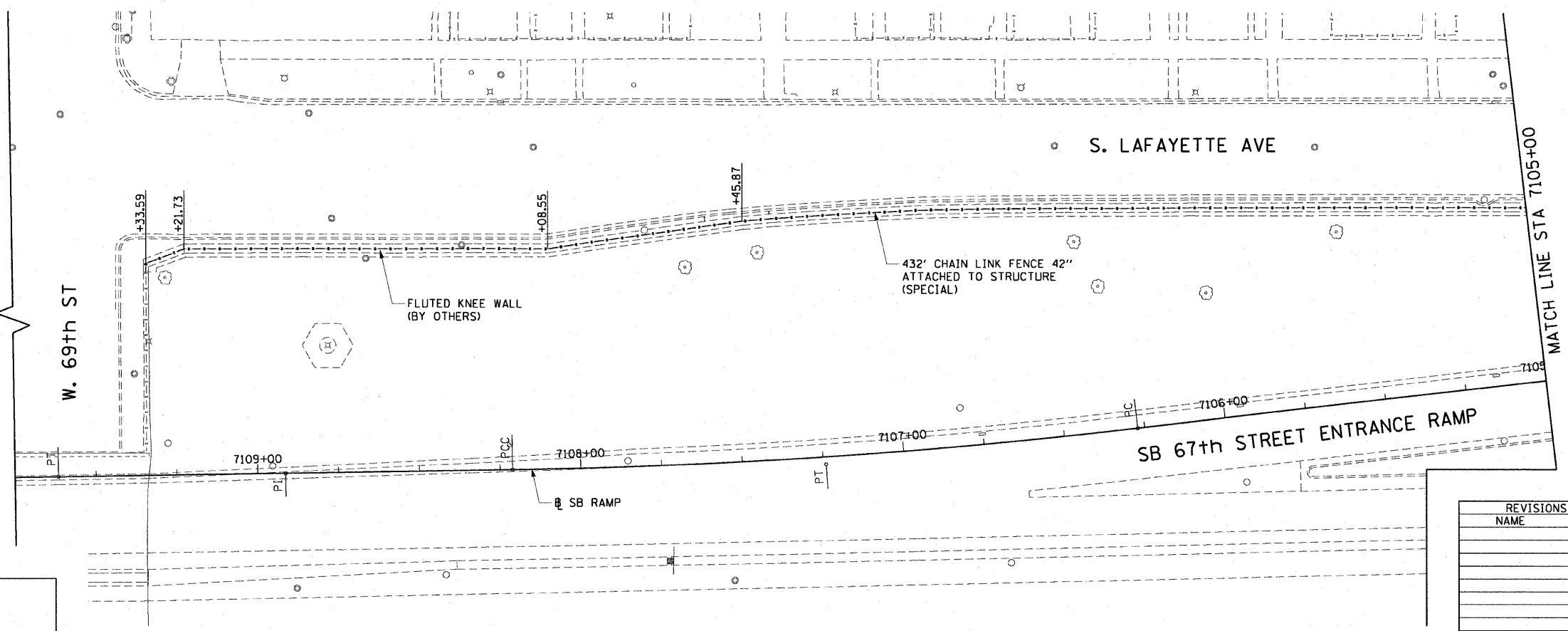
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	23
STA. 7105+00		TO STA. 7109+75		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS



- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62984.

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMG

V:\script\p207\p40469\p40469.ctb\128-knee-wall-fence.sht\contract-4\p40469.ctb  
 1/13/2009 2:36:34 PM

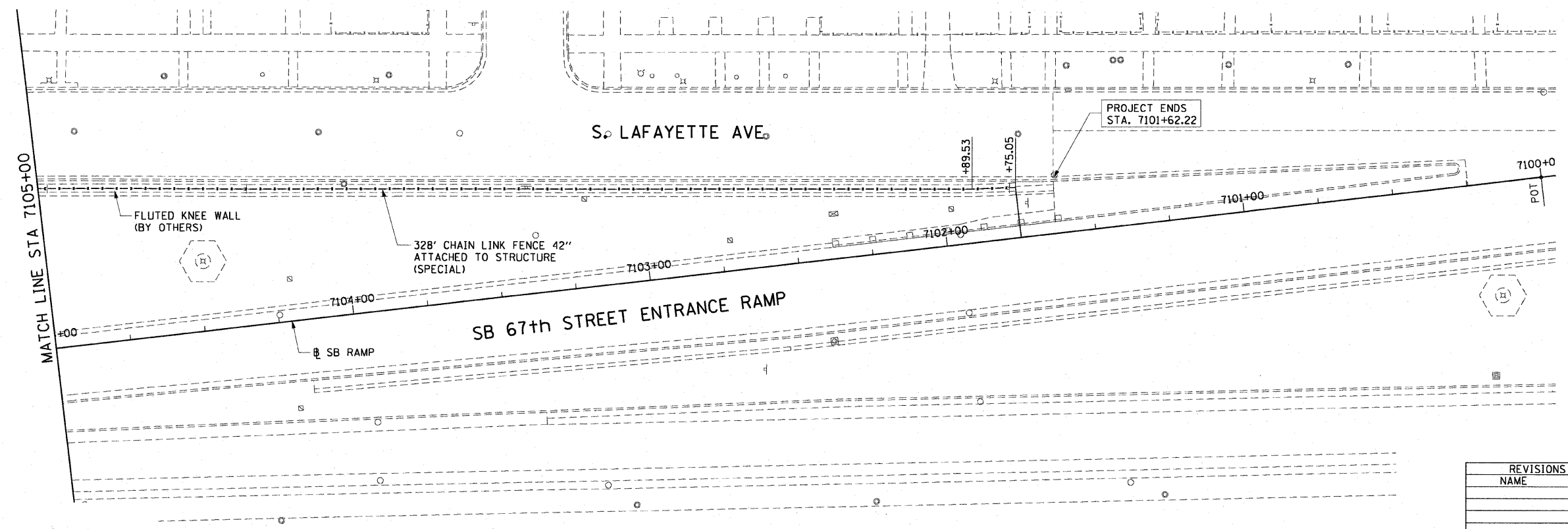
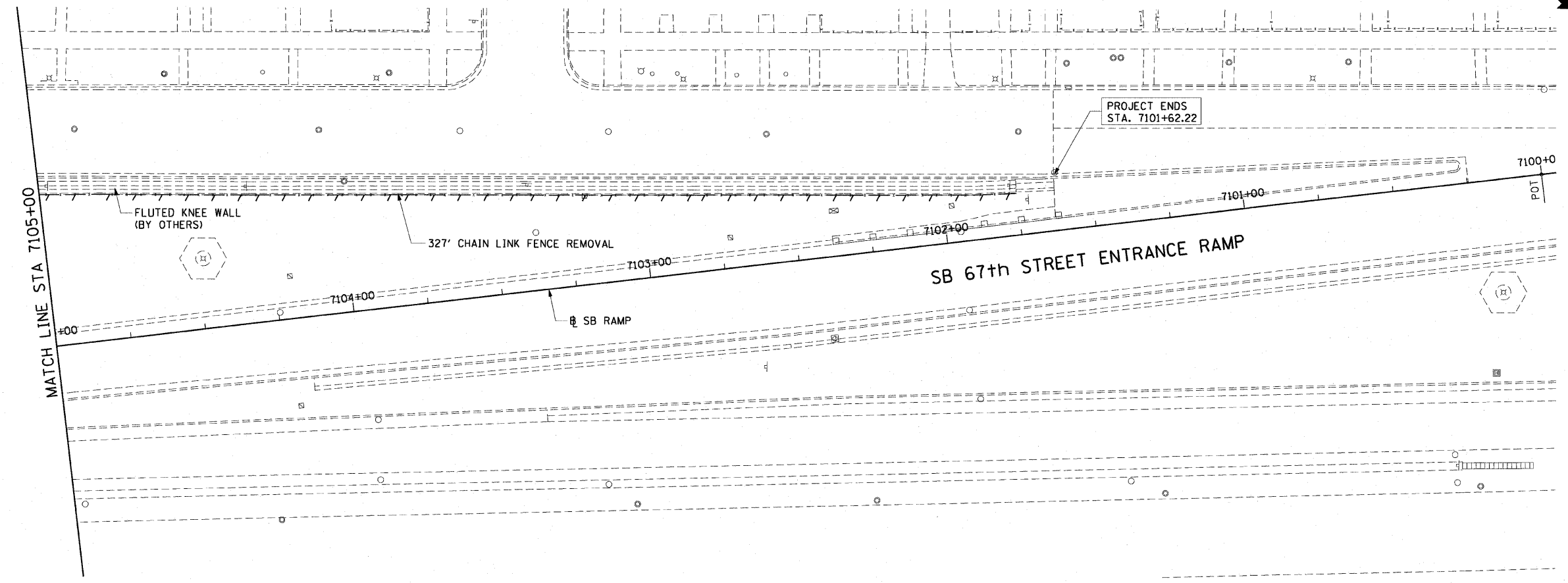
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	24
STA. 7105+00		TO STA. 7109+75		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88

LEGEND:  
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL  
 PROPOSED IMPROVEMENTS

- NOTES:
1. SEE STRUCTURAL DETAILS FOR CHAIN LINK FENCE DETAILS.
  2. ALL STATION CALLOUTS ARE TAKEN AT THE CENTERLINE OF THE CHAIN LINK FENCE.
  3. THE FLUTED KNEE WALL IS CONSTRUCTED IN CONTRACT 62984.
  4. COORDINATE WITH CONTRACT 62984 FOR THE LOCATION OF THE FLASHING BEACON POST.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
 EXISTING AND PROPOSED ROADWAY

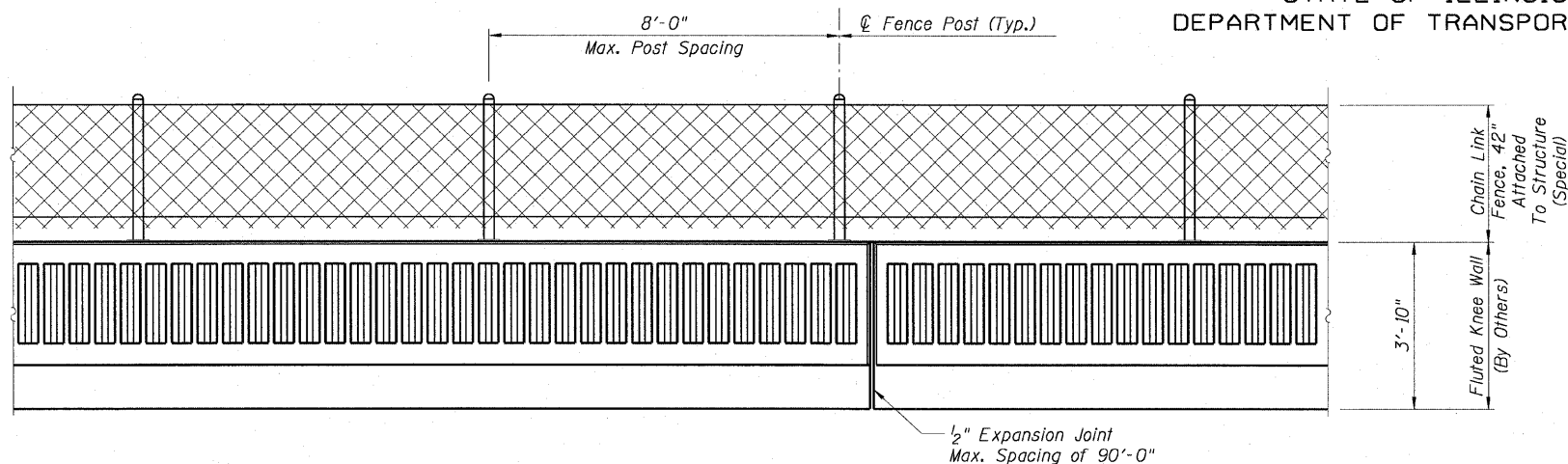
SCALE: 1"=20'  
 DATE: JANUARY 14, 2009  
 DRAWN BY: NJH  
 CHECKED BY: RMC

AECOM

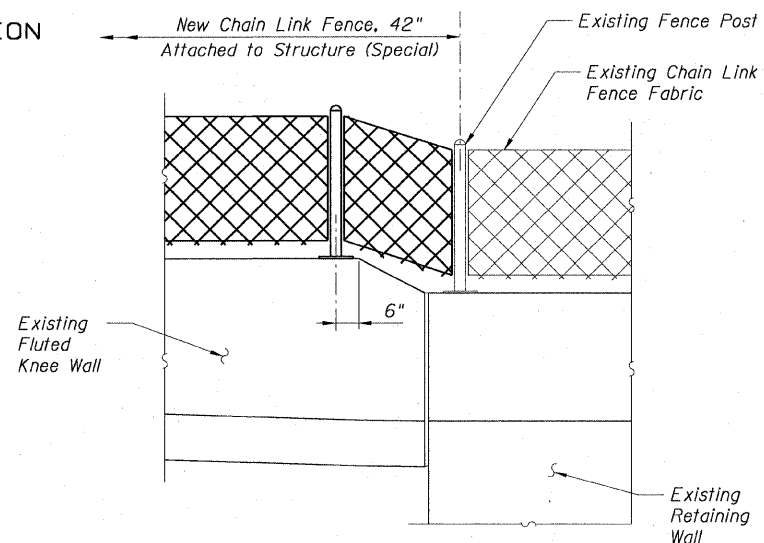
1/13/2009 2:36:34 PM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

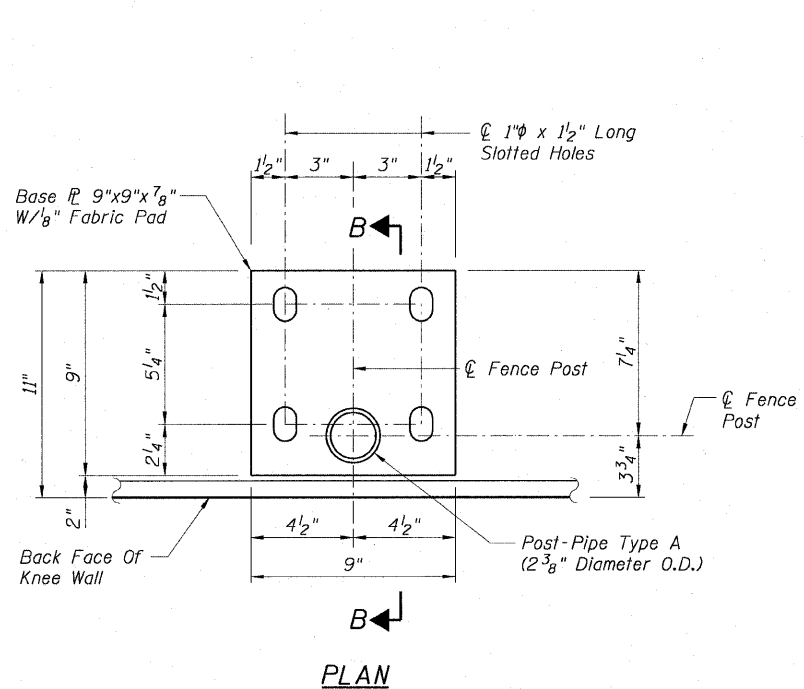
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	25
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60888				



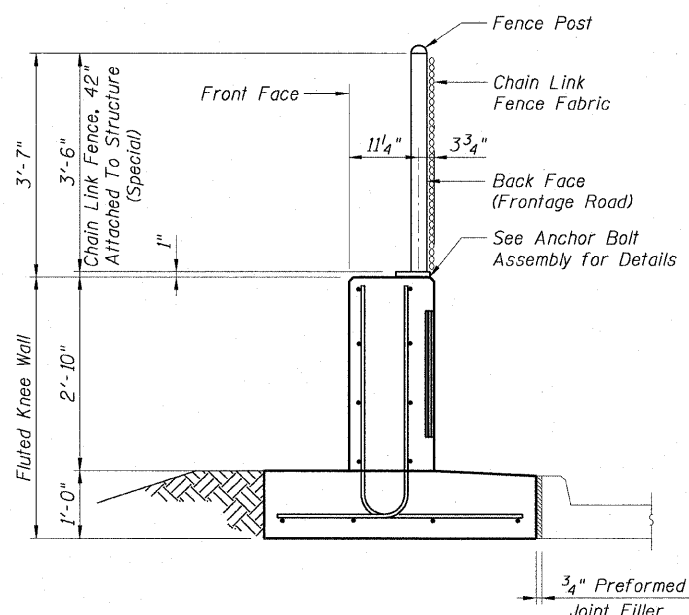
BACK FACE ELEVATION - FLUTED KNEE WALL AND CHAIN LINK FENCE



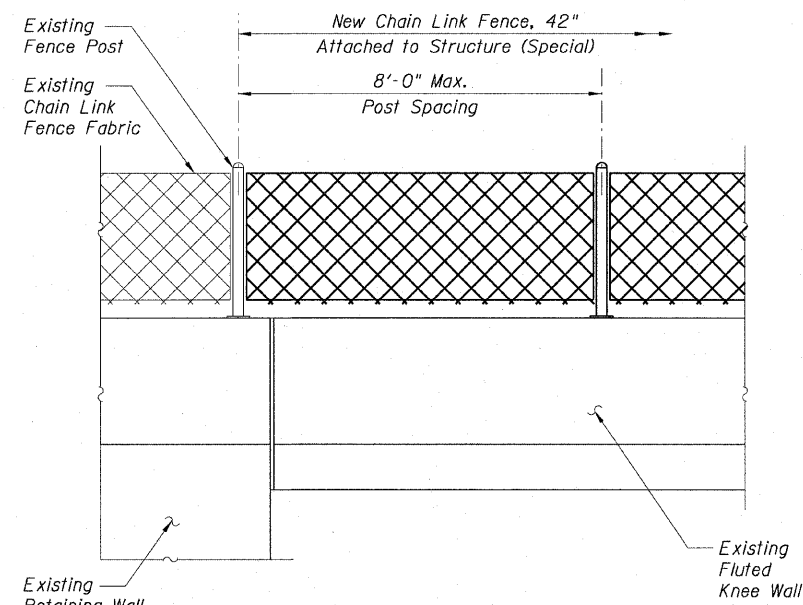
CHAIN LINK FENCE, 42"  
ATTACHED TO STRUCTURE (SPECIAL) DETAIL



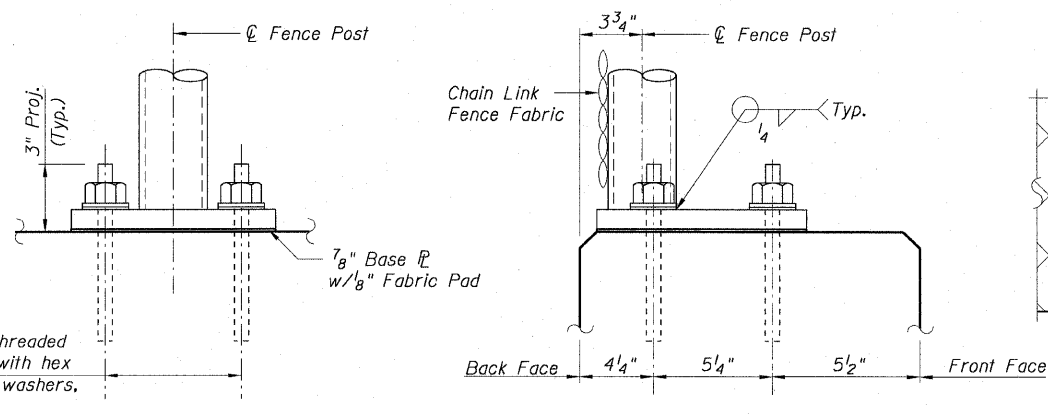
PLAN



TYPICAL SECTION  
FLUTED KNEE WALL & CHAIN LINK FENCE



CHAIN LINK FENCE, 42"  
ATTACHED TO STRUCTURE (SPECIAL) DETAIL



ELEVATION

SECTION B-B

DETAIL

ANCHOR ROD ASSEMBLY DETAILS

NOTES:

1. Fluted knee wall will not be paid for in this Contract, but shall be furnished and installed in Contracts 62983 and 62984.
2. Threaded rods, nuts and washers shall conform to AASHTO M164.
3. Posts shall not be located closer than 6" to an expansion joint or the end of the fluted parapet.
4. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge type anchor rods shall be a two-part system composed of:

- A) A threaded rod stud with nut and washer of the type specified.
  - B) A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.
5. Nuts for the 5/8" threaded anchor rods connecting the base plate to the concrete to be tightened to a snug fit and given an additional 1/8 turn.
  6. The cost of furnishing, drilling and installing epoxy grout and threaded anchor rods including hex nuts and lock washers is included in the cost per foot for "Chain Link Fence, 42" Attached to Structure (Special)".

LEGEND:

	Chain Link Fabric
	Rustication Finish
	Earth

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)

CHAIN LINK FENCE STANDARD DETAILS

SCALE: None  
DATE: JANUARY 14, 2009  
DRAWN BY: RSB  
CHECKED BY: RS

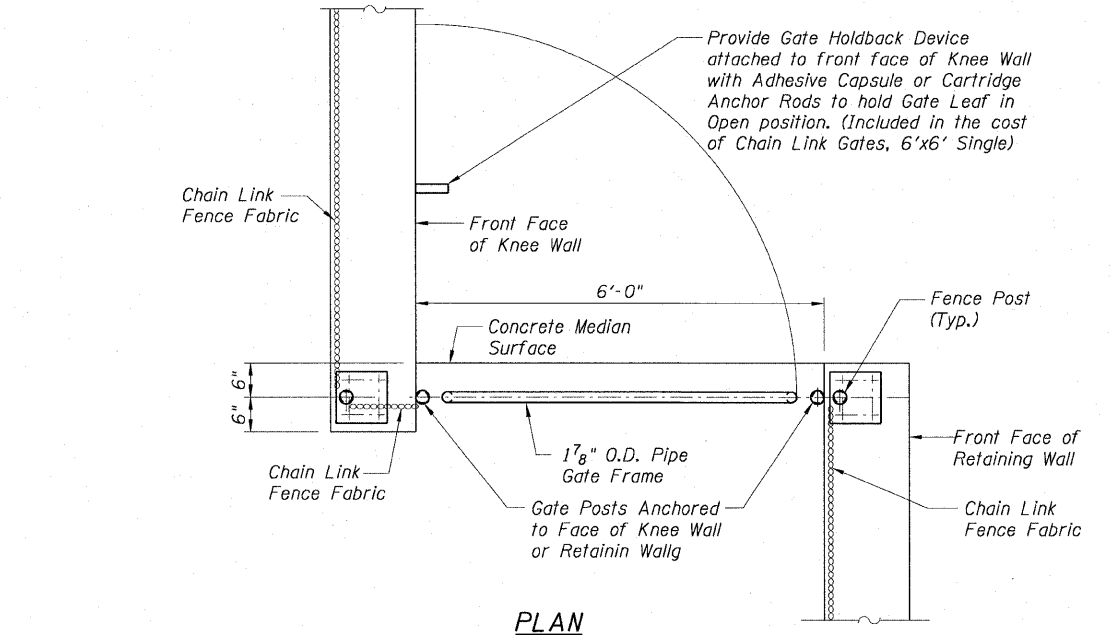
Sheet F1 of 7

2:36:35 PM 1/13/2009

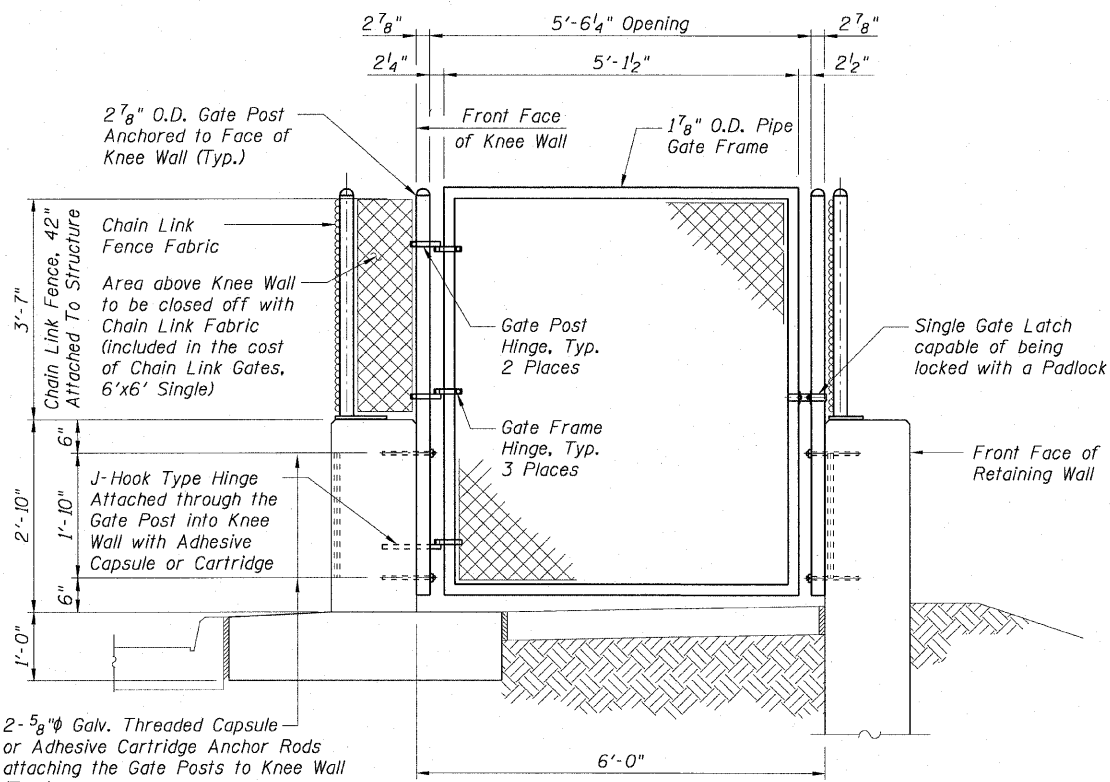
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	26
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60B88



PLAN



TYPICAL ELEVATION

CHAIN LINK GATES, 6'x6' SINGLE DETAILS

Note:  
Gate detail at Station 8002+62.49 State Street will be similar.  
Latch side of gate will be attached to an existing retaining wall.

- NOTES:**
1. For Fence Notes, Legend and Details see Sheet F1.
  2. For location of Gates see Proposed Roadway Plans.

Sheet F2 of 7

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
PLAN, ELEVATION AND DETAILS  
CHAIN LINK GATES, 6'x4' SINGLE AND  
CHAIN LINK GATES, 6'x12' DOUBLE

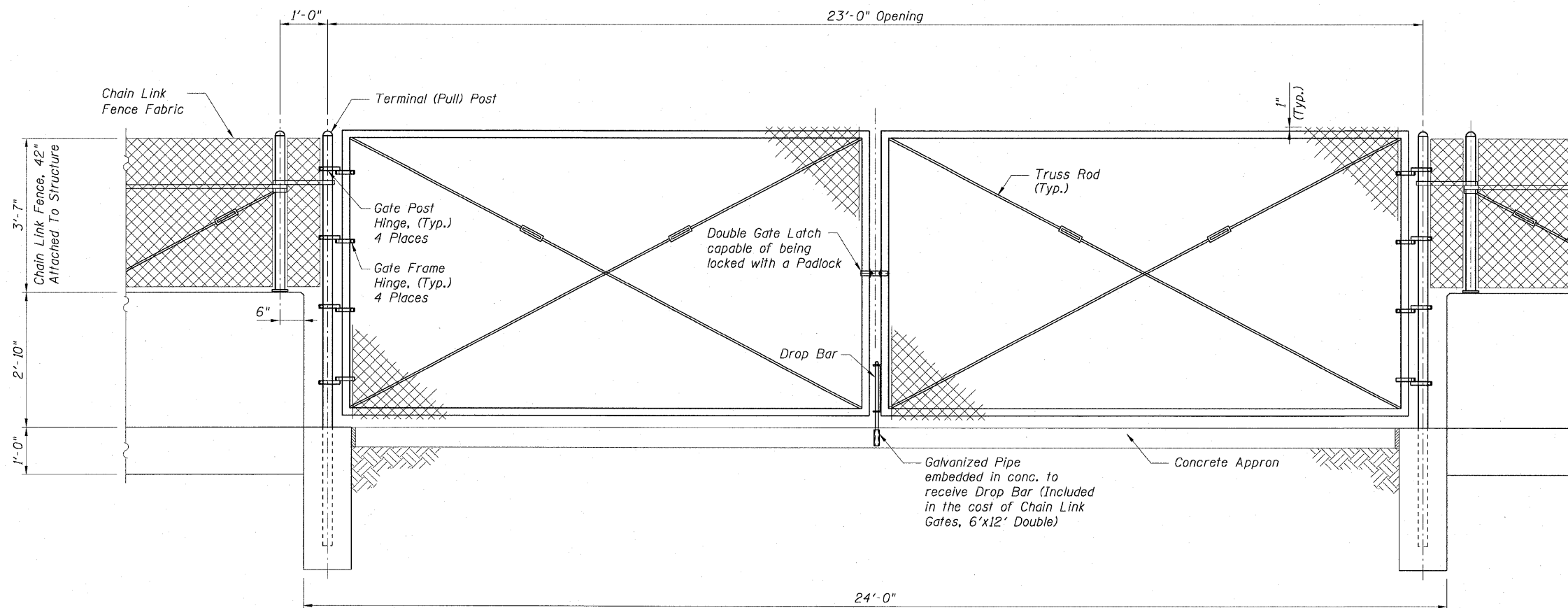
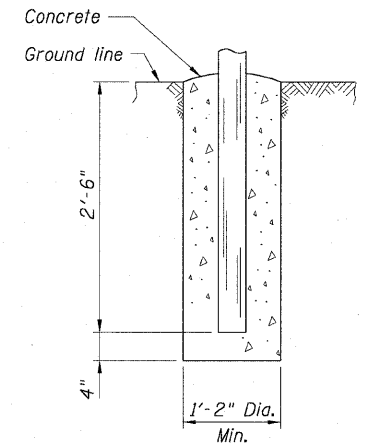
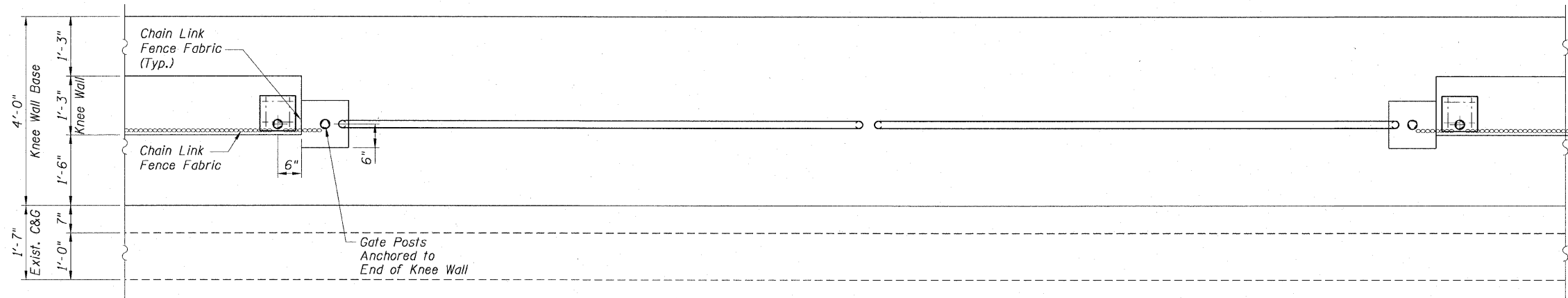
SCALE: None  
DATE: JANUARY 14, 2009  
DRAWN BY: DAS/CHD  
CHECKED BY: MJP

2:36:35 PM 1/13/2009

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	27
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60888



CHAIN LINK GATES, 6' X 24' DOUBLE - DETAILS

NOTES:

1. For Fence Notes, Legend and Details see Sheet F1.
2. For location of Gates see Proposed Roadway Plans.

Sheet F3 of 7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
PLAN AND ELEVATION  
CHAIN LINK GATES, 6'x24' DOUBLE

SCALE: None  
DATE: JANUARY 14, 2009

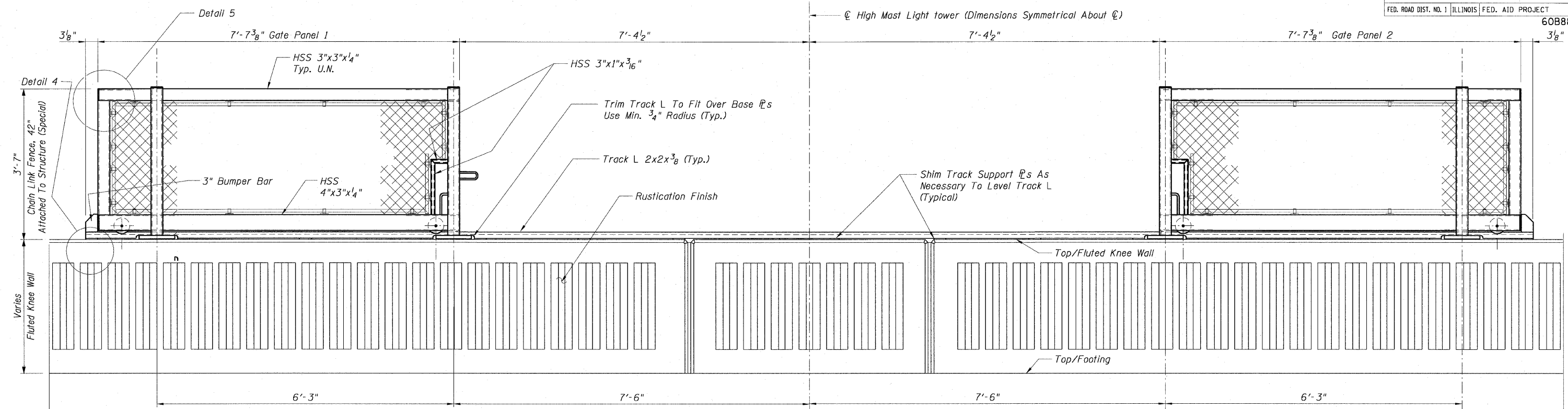
DRAWN BY: DAS/CHD  
CHECKED BY: RDP

AECOM

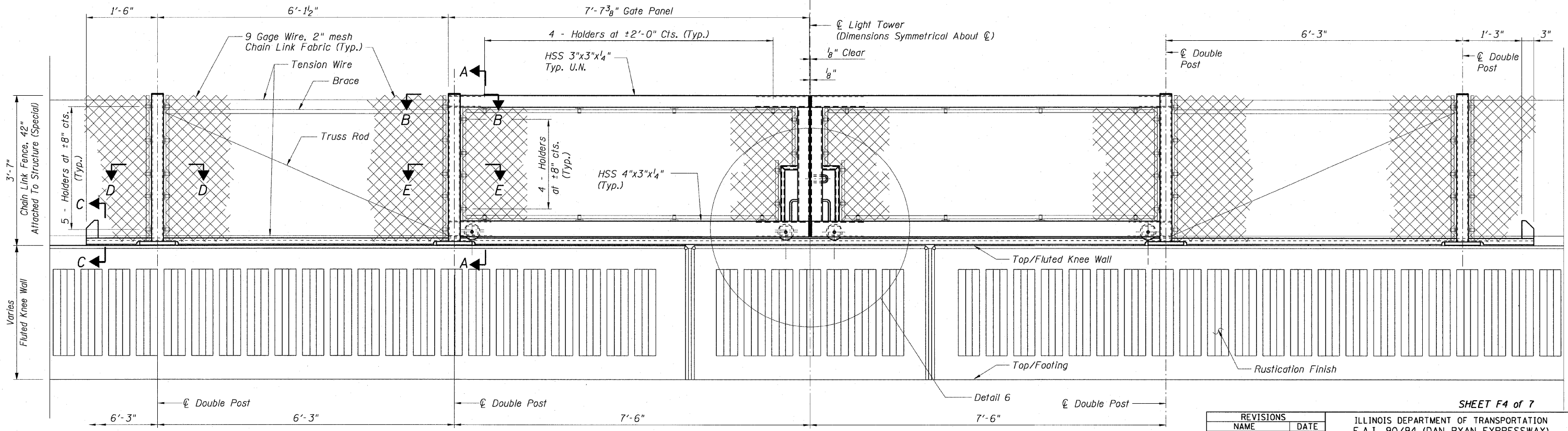
2:36:35 PM  
1/13/2009

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	28
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

60888



DETAIL BACK FACE ELEVATION - GATE IN OPEN POSITION



DETAIL BACK FACE ELEVATION - GATE IN CLOSED POSITION

- NOTES:**
1. For Notes see Sheet F5.
  2. For Sections A-A, B-B, D-D and E-E see Sheet F6.
  3. For Sections C-C and Details 4, 5, 6 and 7 see Sheet F7.

REVISIONS	
NAME	DATE

SHEET F4 of 7

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
**TYPICAL ELEVATIONS**  
**CHAIN LINK FENCE, 42" GATE (SPECIAL)**  
**COOK COUNTY**

SCALE: None  
 DATE: JANUARY 14, 2009

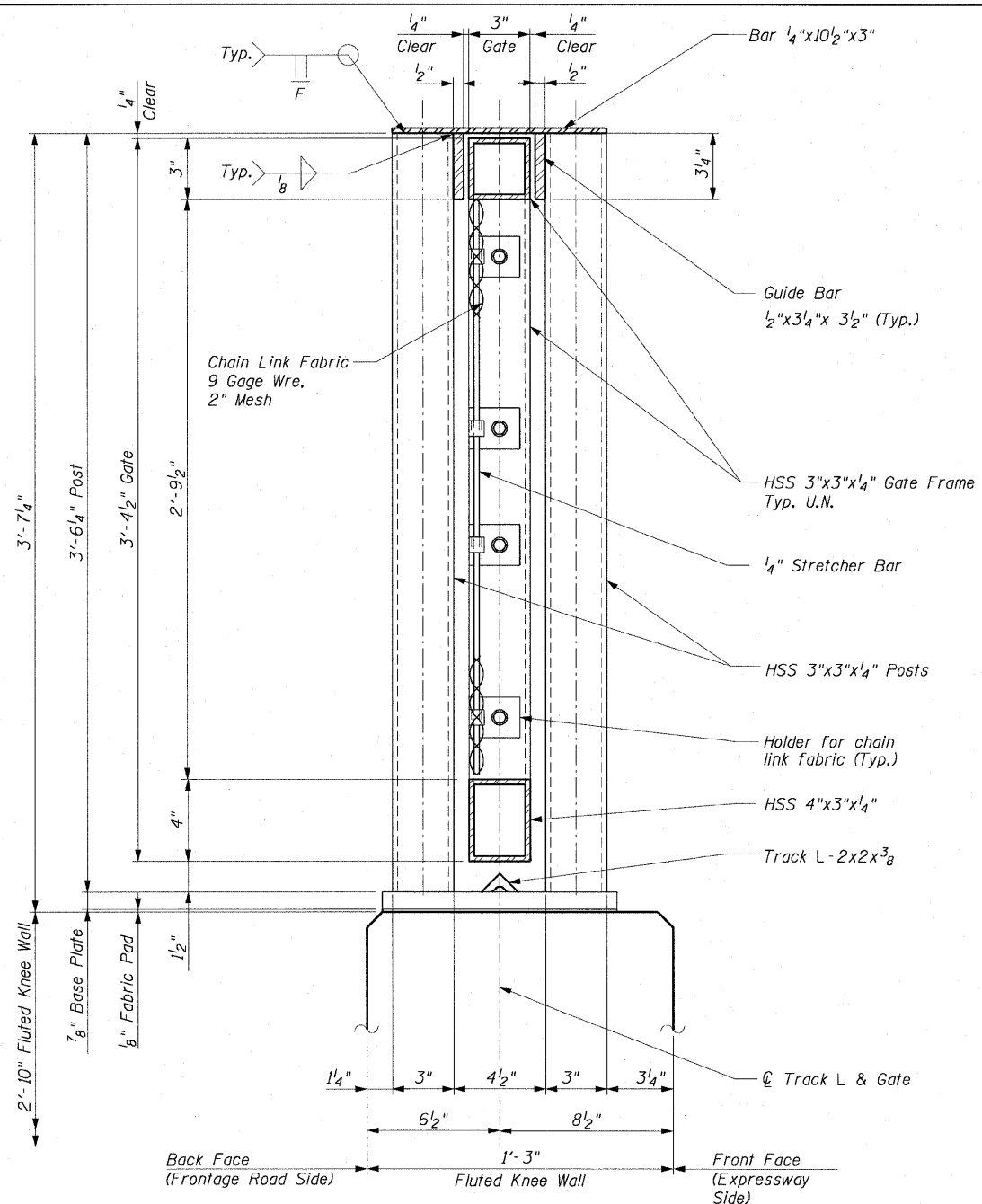
DRAWN BY: FJD  
 CHECKED BY: RS

AECOM

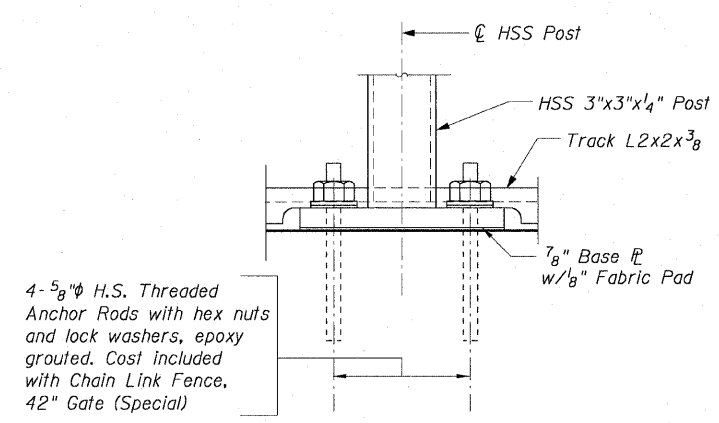
N:\scg\p207\040468\040468\struct\28-knee-wall\_fence\sheet\contract\41714100\F428.rvt  
 2/3/2009 2:36:36 PM





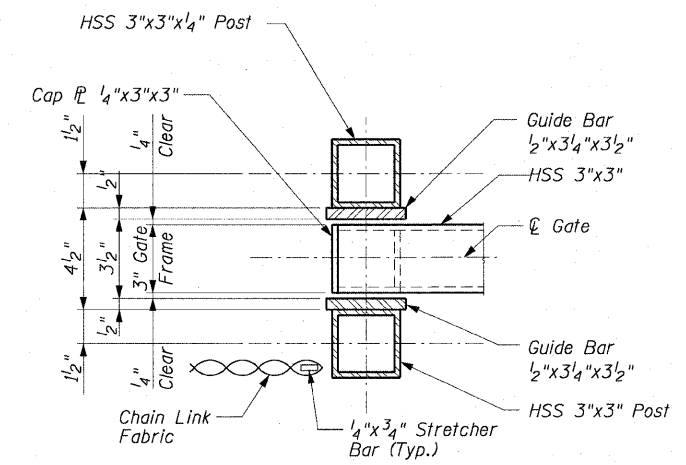
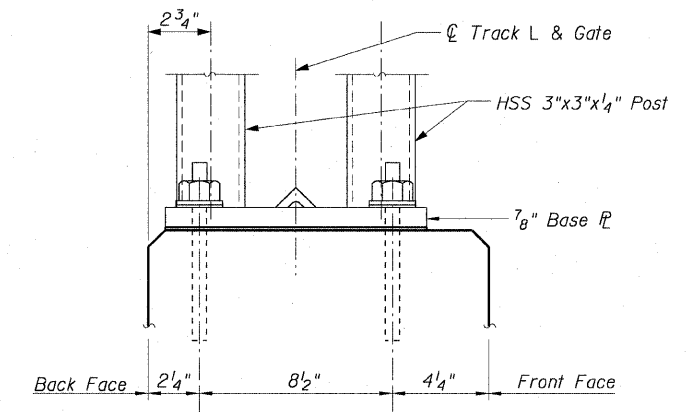


**SECTION A-A**

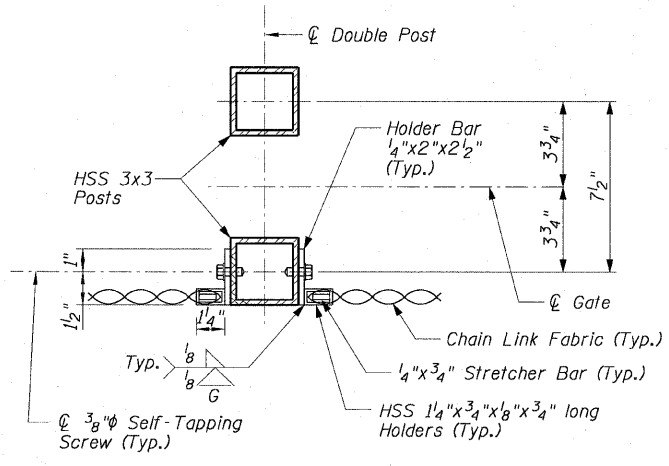


**ANCHOR ROD DETAILS**

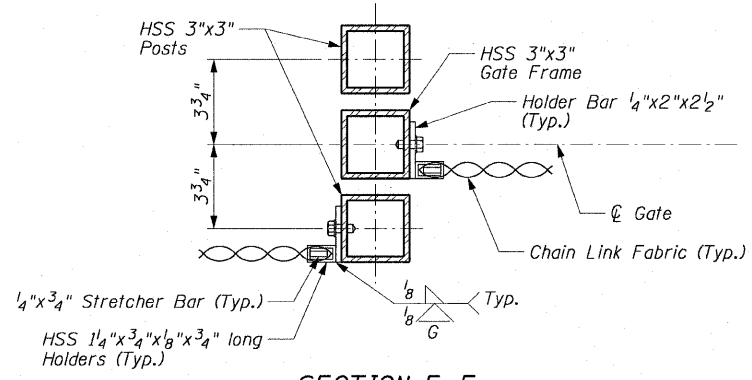
Hole depth shall be according to the Manufacturer's specifications.



**SECTION B-B**



**SECTION D-D**



**SECTION E-E**

**NOTES:**

1. For Notes see Sheet F5.
2. For Anchor Bolt Locations see Details 1, 2 and 3 on Sheet F5.
3. For Locations of Sections A-A, D-D & E-E see Sheet F4.
4. HSS denotes Hollow Structural Section.

**AECOM**

REVISIONS	NAME	DATE

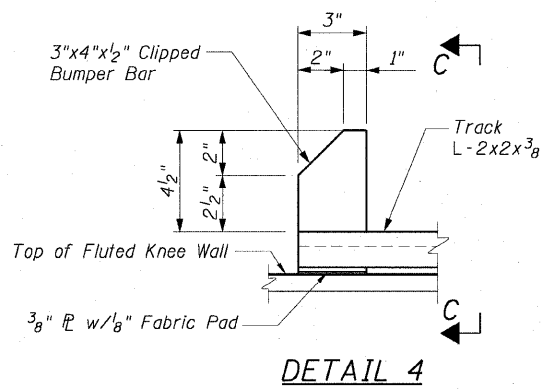
SHEET F6 of 7

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
TYPICAL SECTIONS AND DETAILS,  
CHAIN LINK FENCE, 42" GATE (SPECIAL)  
COOK COUNTY

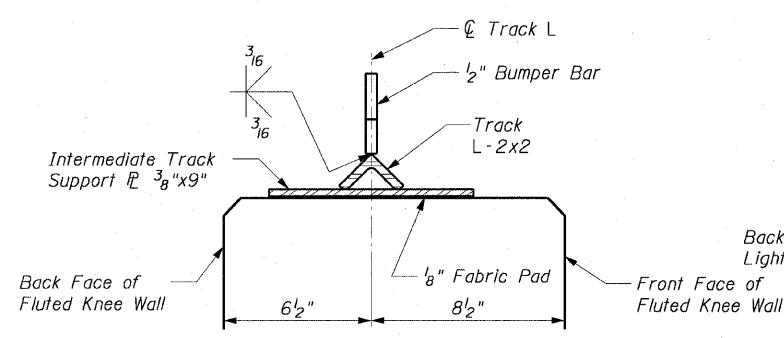
SCALE: None  
DATE: JANUARY 14, 2009  
DRAWN BY: FJD  
CHECKED BY: RS

N:\scholar\p207\p40465\p40465\struct\28-knee-wall\_fence.spl contract 4174100162a.spl 2:36:36 PM 1/13/2009

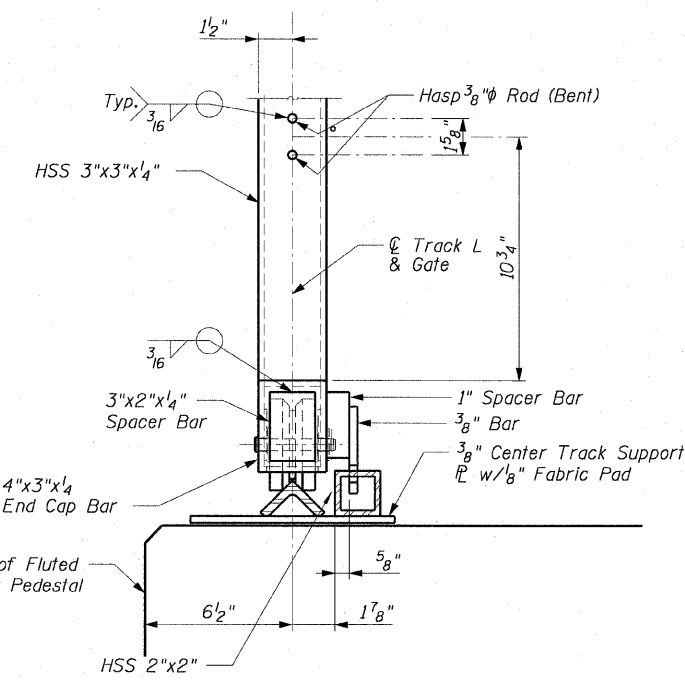
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	31
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60B88				



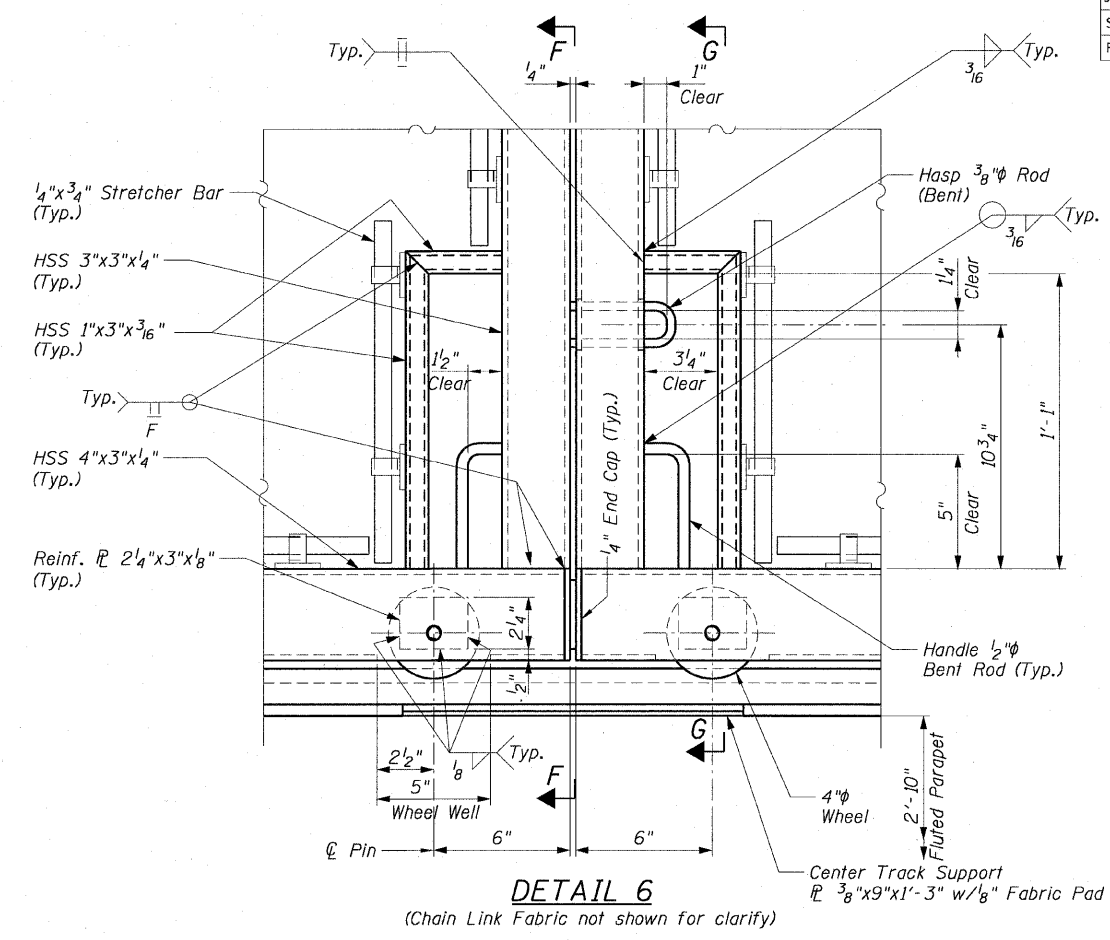
**DETAIL 4**



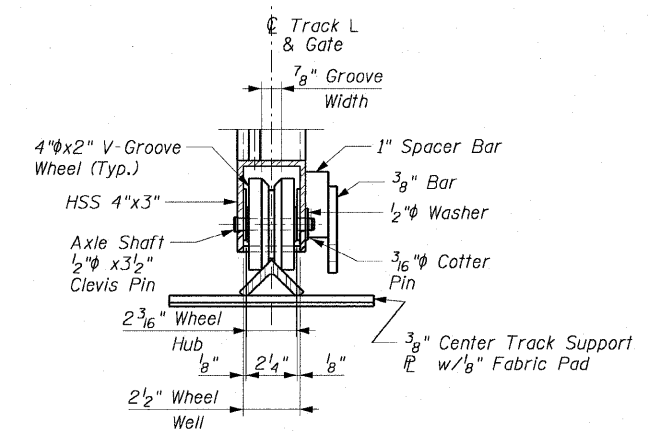
**SECTION C-C**



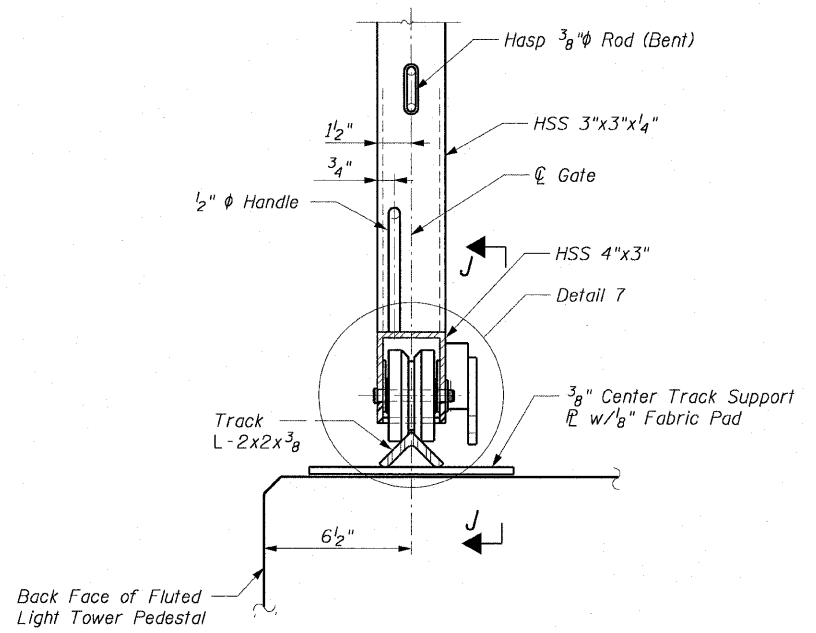
**SECTION F-F**



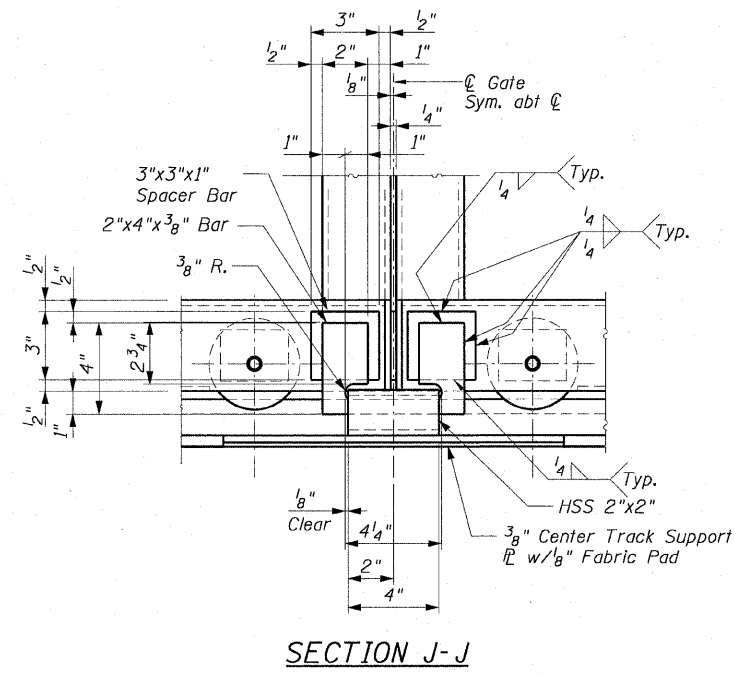
**DETAIL 6**  
(Chain Link Fabric not shown for clarity)



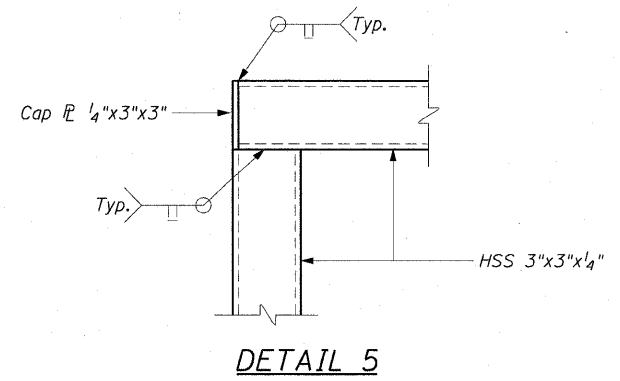
**DETAIL 7**



**SECTION G-G**



**SECTION J-J**



**DETAIL 5**

**NOTES:**

1. For Notes See Sheet F5.
2. For Anchor Bolt Locations See Details 1, 2 and 3 On Sheet F5.
3. For Anchor Bolt Details See Sheet F6.
4. For Location of Detail 6 See Sheet F4.
5. HSS denotes Hollow Structural Section.

REVISIONS	
NAME	DATE

**SHEET F7 of 7**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 FENCE AND GATES VARIOUS LOCATIONS  
 (71ST STREET TO 63RD STREET)  
**TYPICAL SECTIONS AND DETAILS  
 CHAIN LINK FENCE, 42" GATE (SPECIAL)  
 COOK COUNTY**

SCALE: None      DRAWN BY: FJD  
 DATE: JANUARY 14, 2009      CHECKED BY: RS

**AECOM**

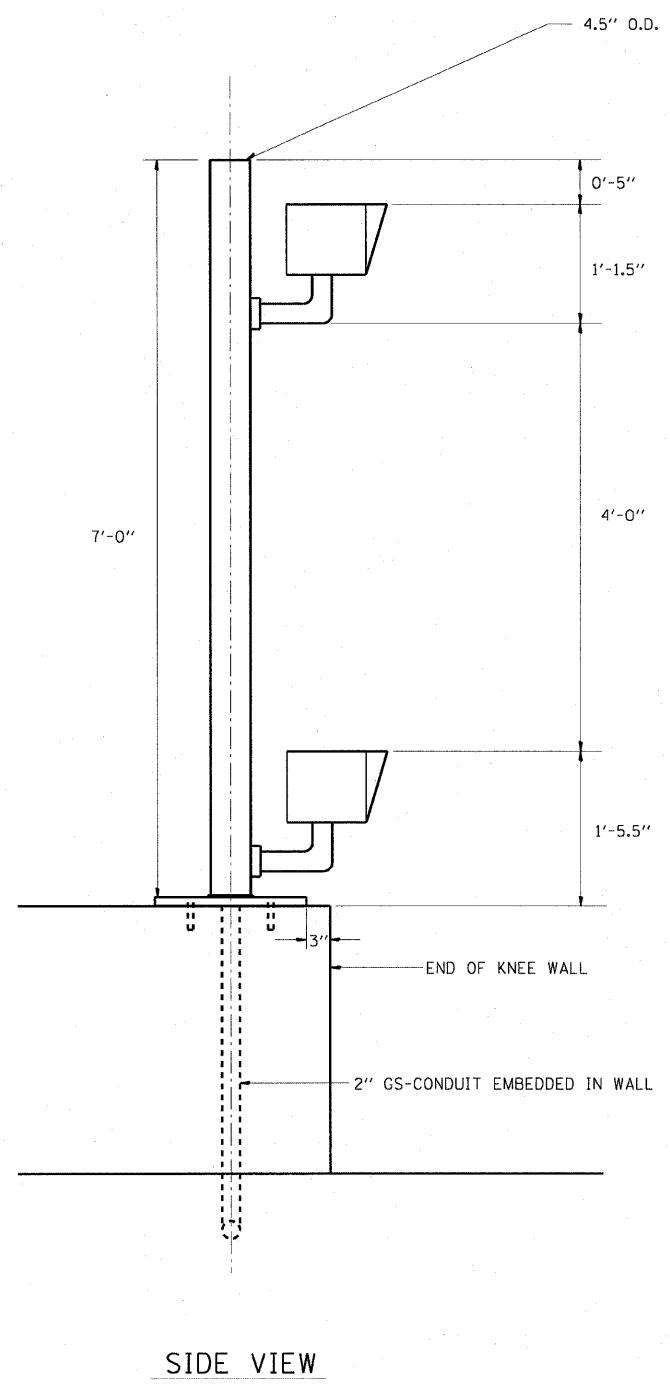
V:\scipif\2007\040468\040468-struct\28-knee-wall\_fence\sheet\contract\_4\17410072.dwg 2:36:37 PM 1/13/2009

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	32
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

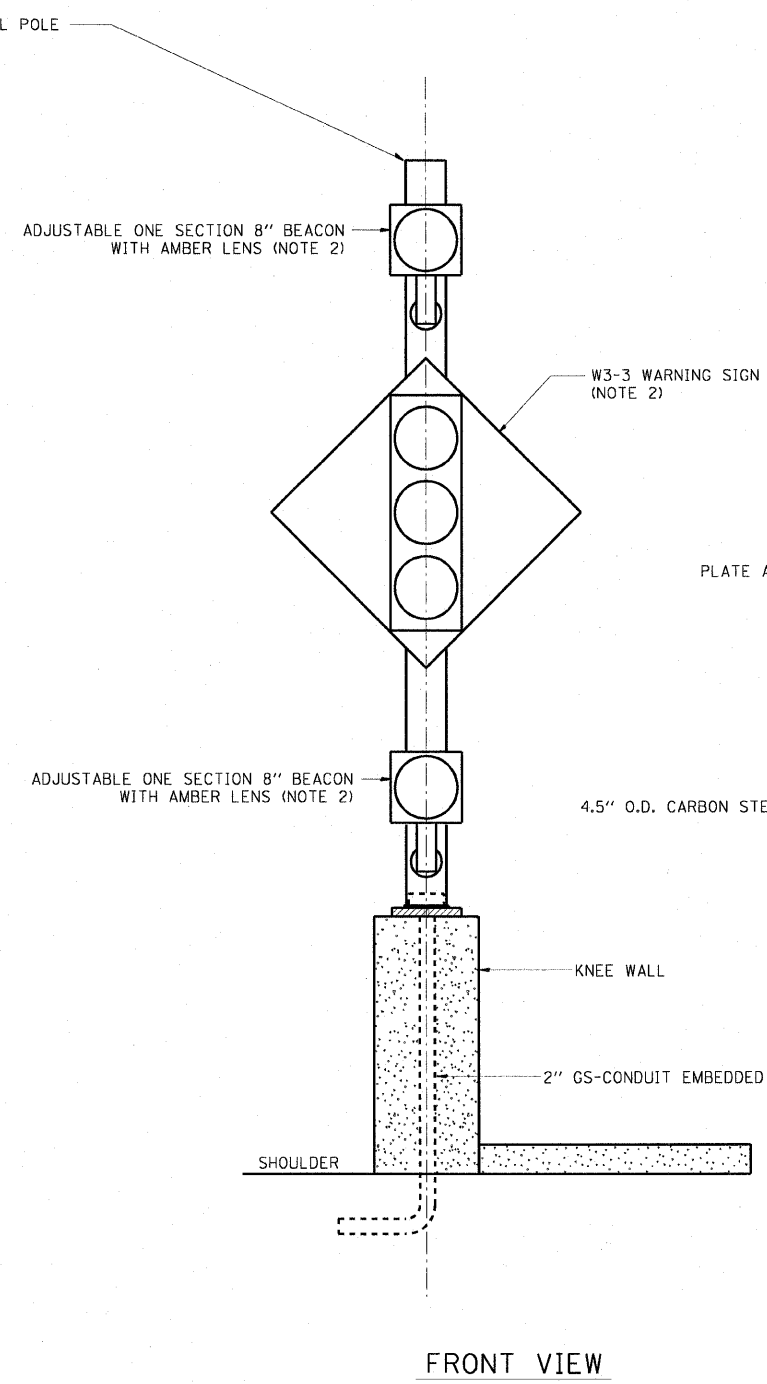
60B88

**NOTES:**

1. SEE STRUCTURAL DETAILS FOR CONDUIT IN KNEE WALL INSTALLATION DETAILS.
2. BEACONS AND WARNING SIGN FROM EXISTING WOOD POST ARE TO BE REINSTALLED ON THE NEW STEEL POLE AND WIRED BACK TO THE SURVEILLANCE CABINET AS SHOWN ON THE PLAN DRAWINGS.

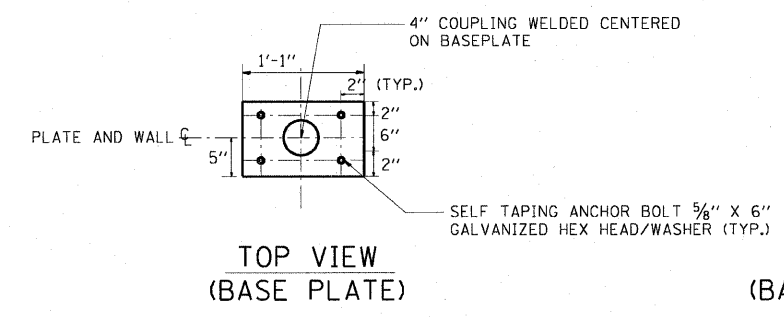


SIDE VIEW

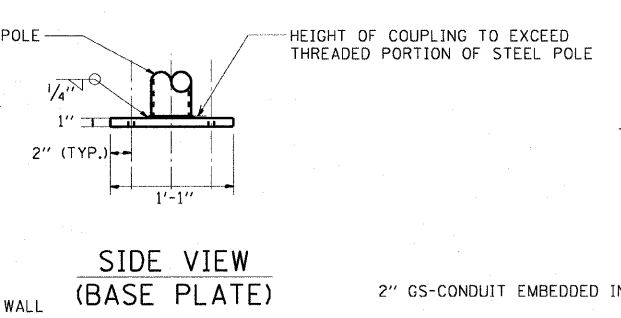


FRONT VIEW

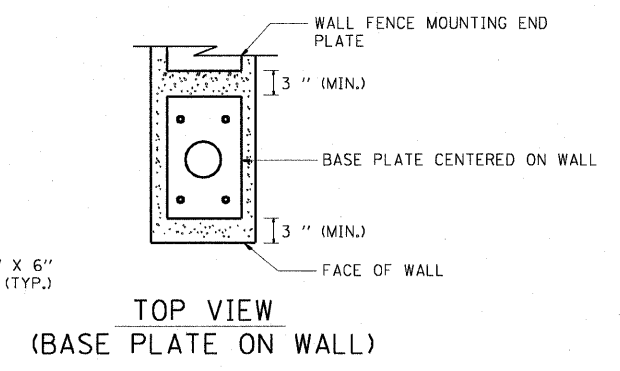
FLASHER POST ON KNEE WALL



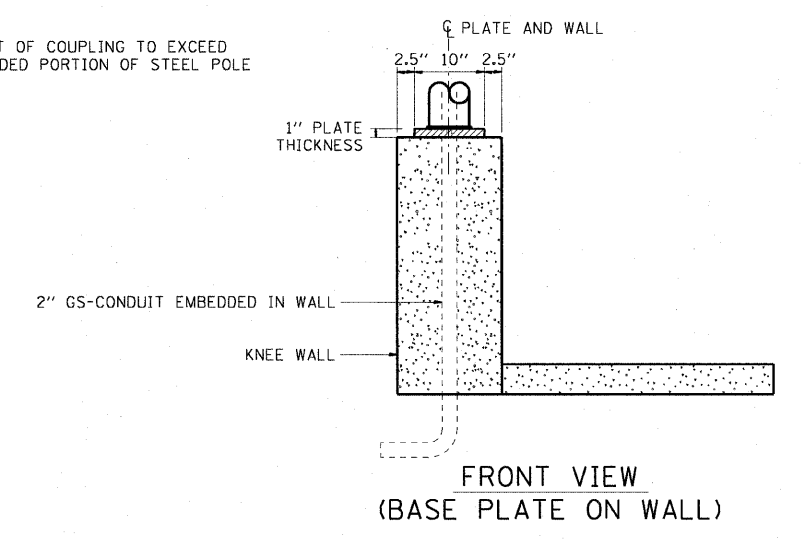
TOP VIEW  
(BASE PLATE)



SIDE VIEW  
(BASE PLATE)



TOP VIEW  
(BASE PLATE ON WALL)



FRONT VIEW  
(BASE PLATE ON WALL)

AECOM

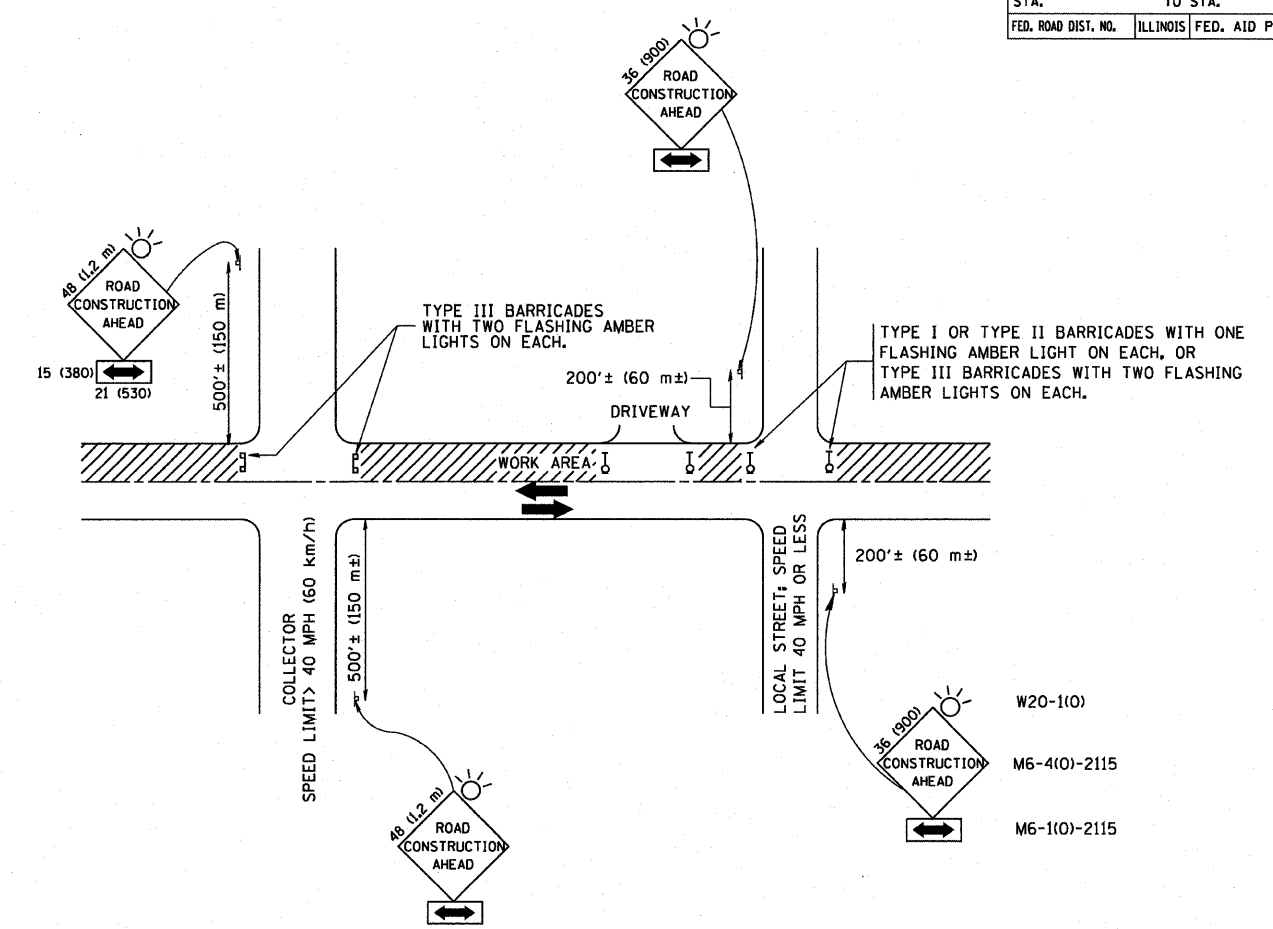
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
FENCE AND GATES VARIOUS LOCATIONS  
(71ST STREET TO 63RD STREET)  
**RAMP METER FLASHER  
ON KNEE WALL DETAIL**  
SCALE: NOT TO SCALE  
DATE: JANUARY 14, 2009  
DRAWN BY: HR  
CHECKED BY: JPC

DT-35A

1/13/2009 2:45:02 PM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	33
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

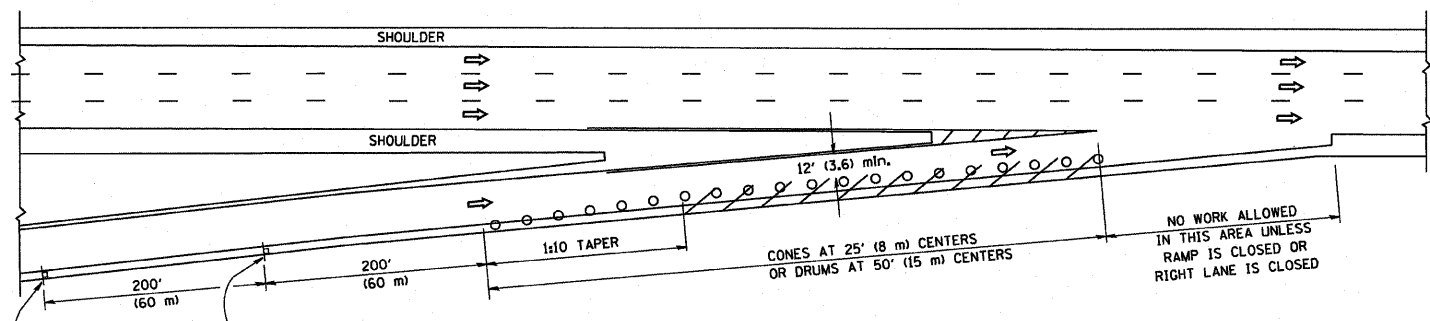
REVISIONS	
NAME	DATE
LHA	6/789
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

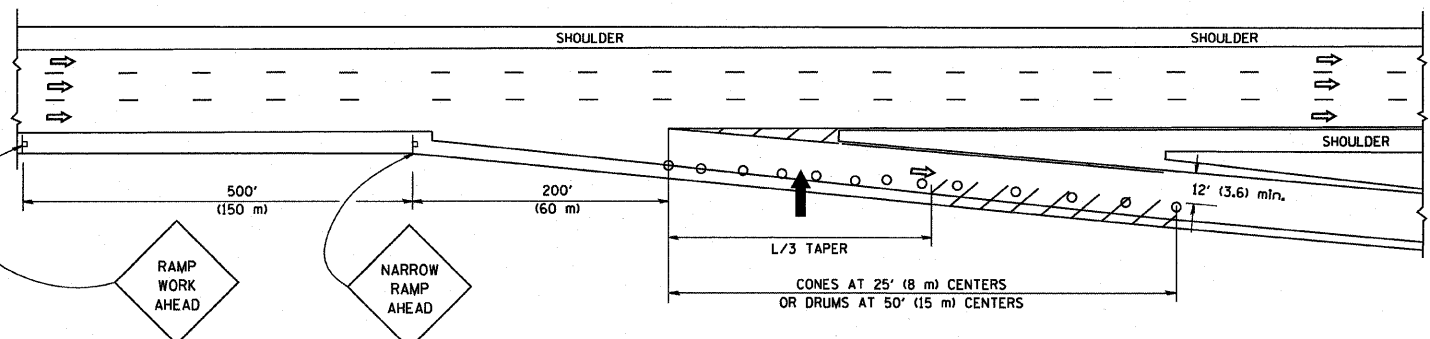
SCALE: NONE  
 DRAWN BY  
 CHECKED BY  
 TC-10

PLOT DATE : 2/6/2007  
 FILE NAME : K:\vistasd\calldgn  
 PLOT SCALE : 0.0000 / IN.  
 USER NAME : bauerd

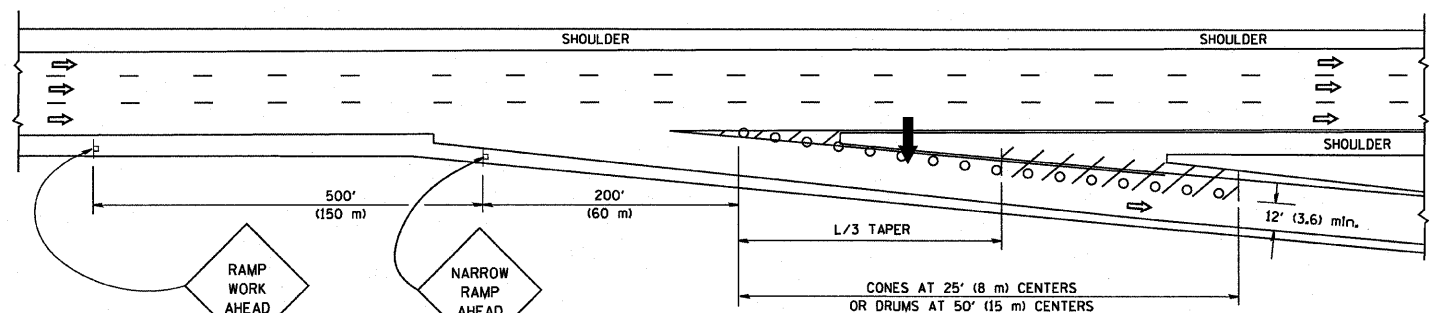
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

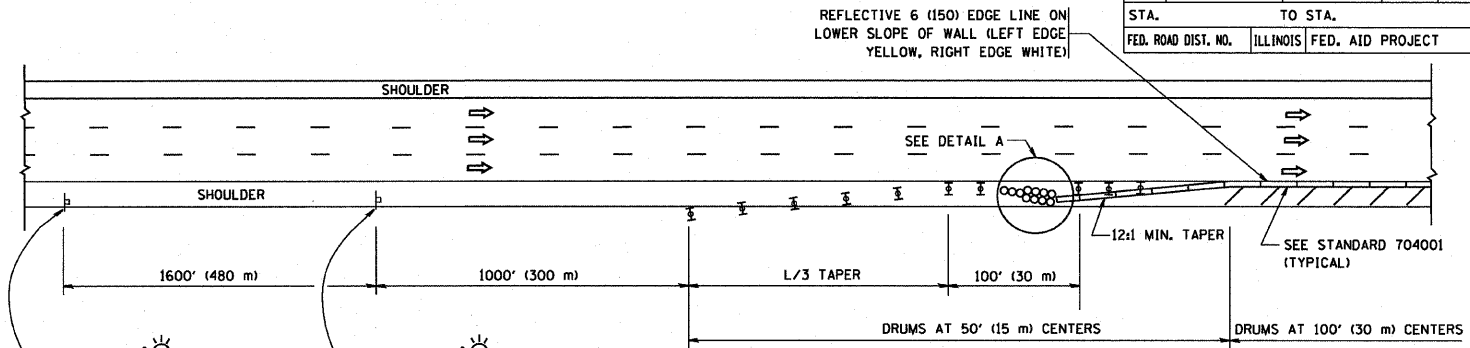
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

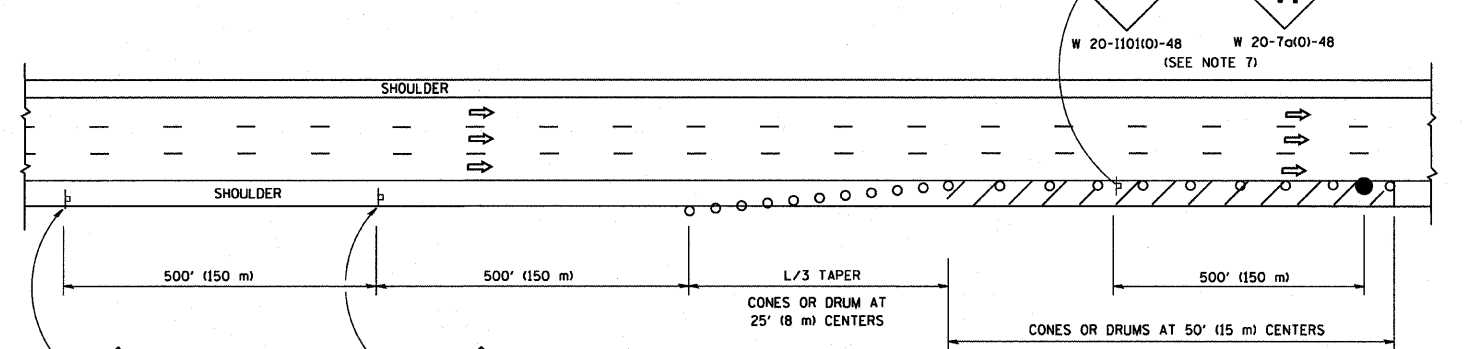
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS	
45 mph (80 km/h)	METRIC	ENGLISH
OR GREATER:	$L = 0.65(W)(S)$	$L = (W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)	
	S = NORMAL POSTED SPEED MPH (KM/H)	
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.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE

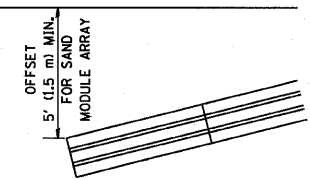


DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) 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 INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

DESIGNED BY: DWS

DRAWN BY: [Blank]

CHECKED BY: [Blank]

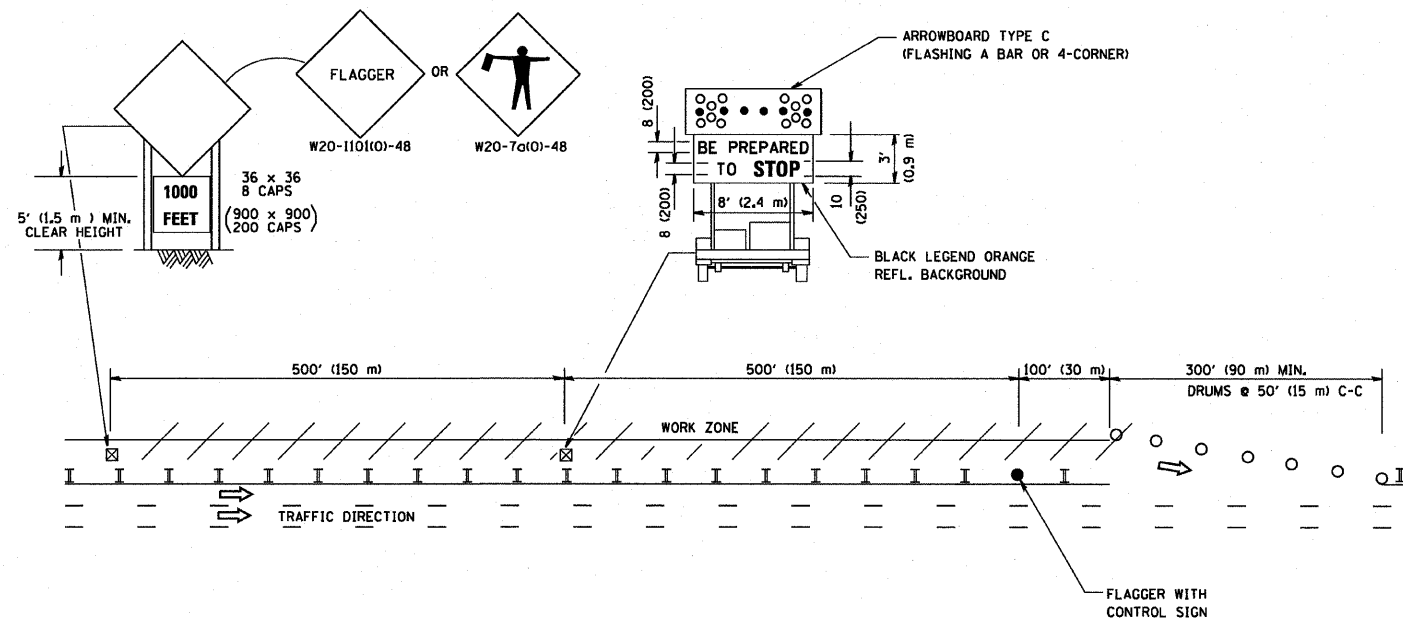
SCALE: NONE

PLOT DATE: 3/7/2007  
 FILE NAME: K:\nasas\1\1\7.dgn  
 PLOT SCALE: 80.0000 / 1"  
 USER NAME: bauer01

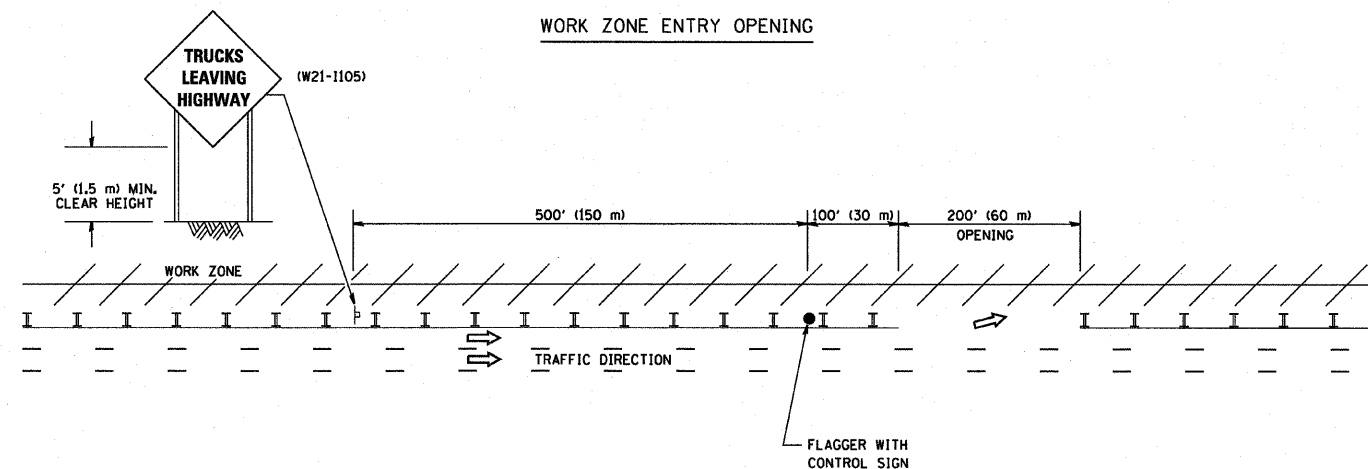
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-034 I	COOK	36	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



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 INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS

SCALE: NONE

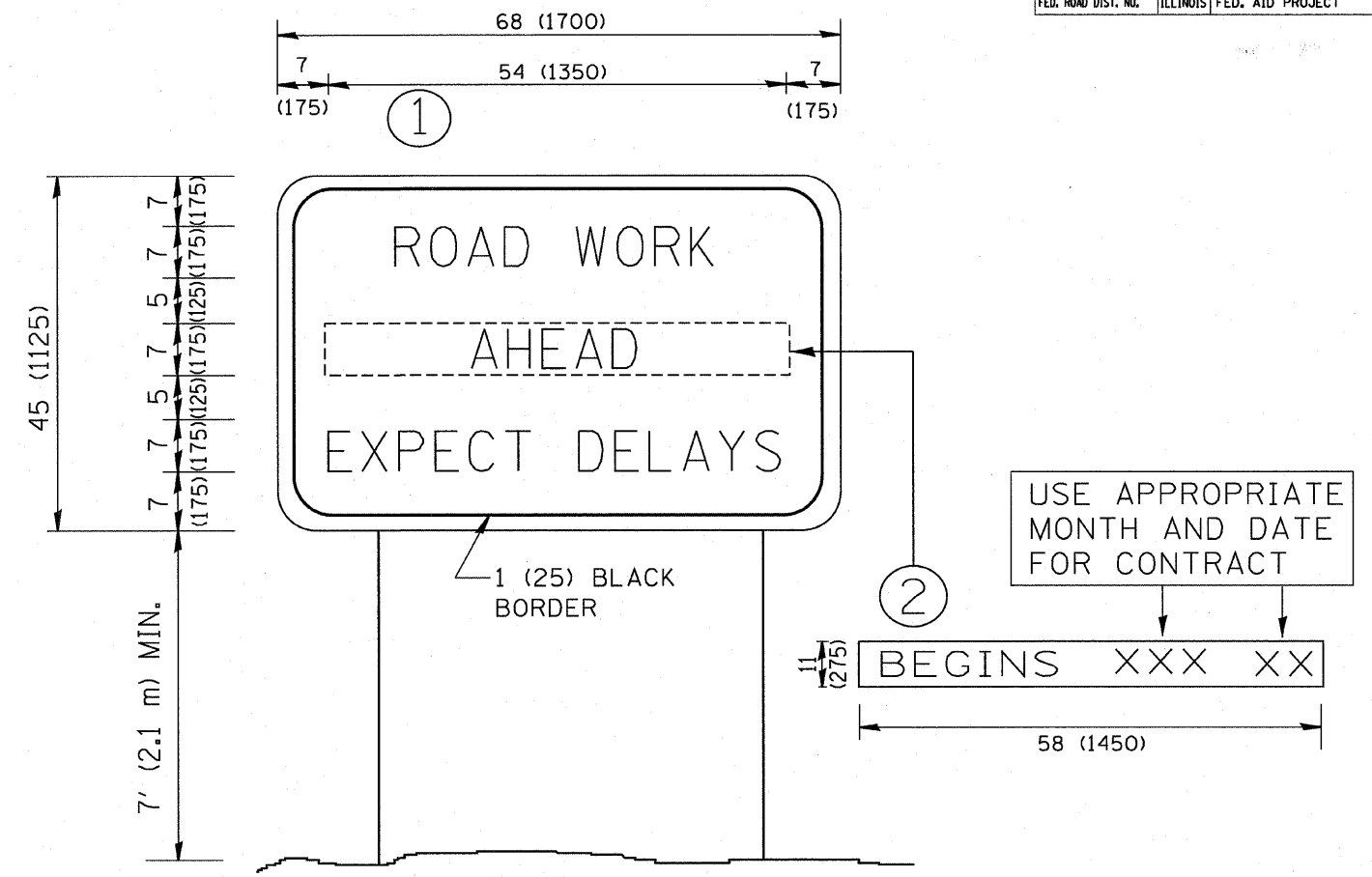
DRAWN BY CADD

CHECKED BY

TC-18

PLOT DATE = 3/7/2007  
FILE NAME = K:\dists\1\101\Bdgn  
SCALE = 1/8" = 1'-0"  
USER NAME = Board1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2006-0341	COOK	36	36
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ARTERIAL ROAD INFORMATION SIGN**

SCALE: NONE

DRAWN BY DESIGN  
 CHECKED BY  
 TC22