

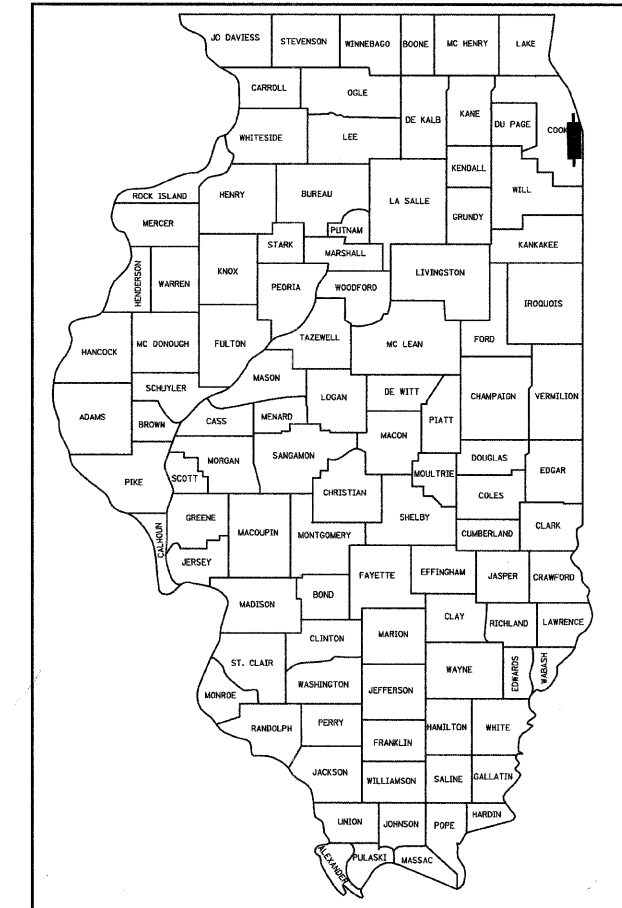
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	1

• (1919.15 & 2021-922 PT1) I **62985**

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

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)
SECTION (1919.15 & 2021-922 PT1) I
INSTALLATION OF FLUTED KNEE WALL ALONG WENTWORTH AVENUE
AND WELLS STREET FROM 375- FEET SOUTH OF 63rd STREET TO 62nd STREET
COOK COUNTY
C-91-243-05**



LOCATION OF SECTION INDICATED THUS: —

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	EXISTING AND PROPOSED TYPICAL SECTIONS
5-13	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
14-18	EXISTING AND PROPOSED ROADWAY PLANS
19-20	ROADWAY DETAILS
21-22	ELECTRICAL PLANS AND DETAIL
23-27	STRUCTURAL DETAILS
28	TC-10 DISTRICT 1, TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
29	TC-17 DISTRICT 1, TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
30	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
31	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN

DESIGN NUMBER

D-91-243-05

IDOT HIGHWAY STANDARDS

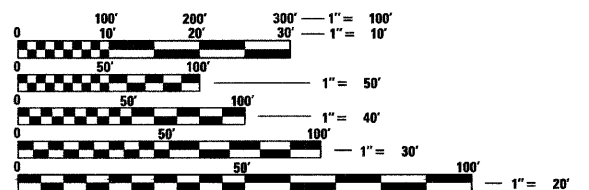
STANDARD	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
664001-02	CHAIN LINK FENCE
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS

PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

WENTWORTH AVE: 6259 (20) URBAN COLLECTOR
WELLS ST: 8275 (20) URBAN COLLECTOR

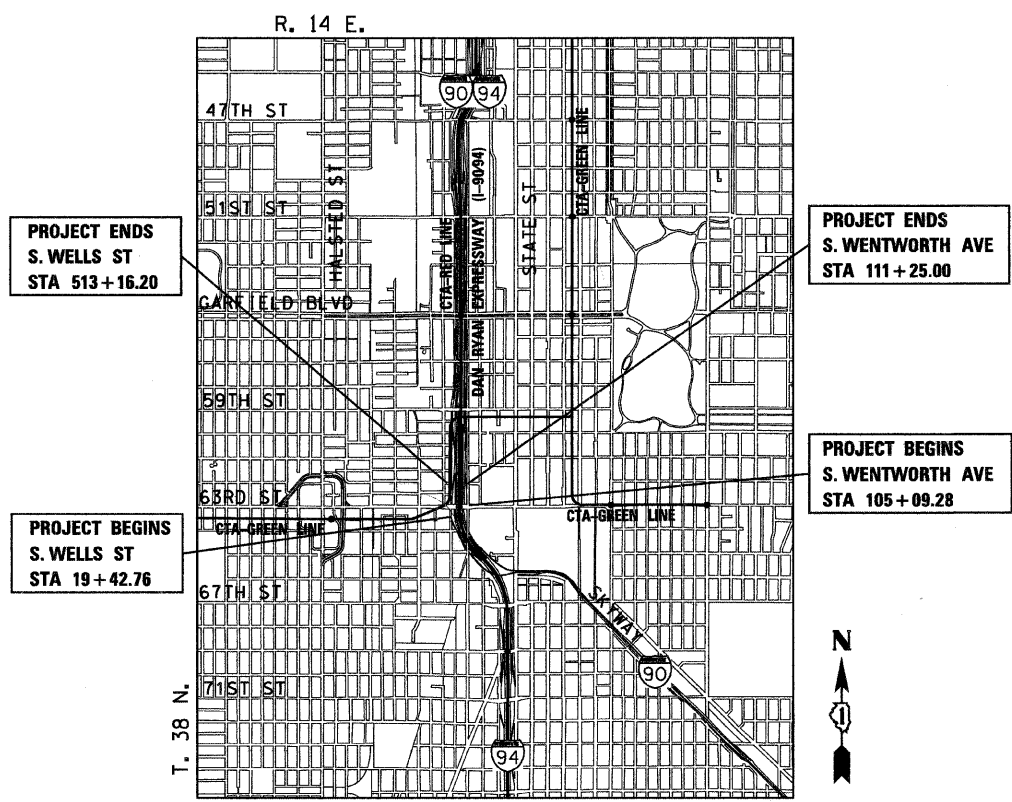
FRONTAGE ROADS:	ADT	DESIGN SPEED	POSTED (2020) SPEED
WENTWORTH AVE	11,000	30	25
WELLS ST	15,000	30	25



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. 62985



LOCATION MAP

0 1/2 MILE 1 MILE
1" = 1/2 MILE
GROSS LENGTH OF PROJECT = 1,529 FT (0.290 MILES)
NET LENGTH OF PROJECT = 1,529 FT (0.290 MILES)



Robert M. Goveia
ROBERT M. GOVEIA
11/30/2009 EXPIRES 01/00/2009 DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 8, 2009

Diana M. O'Keefe 98
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2009
Charles J. Jones 10
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2009
Christine M. Reed 10
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

AECOM

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	31	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
• (1919.15 & 2021-922 PT1) I		62985		

GENERAL NOTES:

- ALL WORK IN THIS CONTRACT SHALL BE COMPLETED WITHIN 35 WORKING DAYS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 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.
- THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:
 - CONTRACT 60A62 - NORTHBOUND LOCAL LANES (63RD STREET TO GARFIELD BOULEVARD)
 - CONTRACT 60A63 - SOUTHBOUND LOCAL LANES (63RD STREET TO GARFIELD BOULEVARD)
 - CONTRACT 62583 - LIGHTING AND SURVEILLANCE 31ST ST TO I-57 INTERCHANGE
 - CONTRACT 60A03 - INSTALLATION OF FENCING AND GATING (63RD ST TO 47TH ST)
 - CONTRACT 60A72 - NORTHBOUND ROADSIDE EMBANKMENT LANDSCAPING
 - CONTRACT 60A73 - SOUTHBOUND ROADSIDE EMBANKMENT LANDSCAPING
 - CONTRACT 60A77 - NORTHBOUND GATEWAY LANDSCAPING AND IRRIGATION AT 63RD STREET
 - CONTRACT 62983 - INSTALLATION OF NORTHBOUND FLUTED KNEE WALL (71ST STREET TO 63RD STREET)
 - CONTRACT 62984 - INSTALLATION OF SOUTHBOUND FLUTED KNEE WALL (71ST STREET TO 63RD STREET)
 - CONTRACT 60B88 - FENCING AND GATING INSTALLATION (71ST STREET TO 63RD STREET)
- 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.
- 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.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- 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.
- ALL RELOCATION OF EXISTING SIGNS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL CONFORM TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. EXISTING SIGNS TO BE RELOCATED IN PROPOSED CONCRETE MEDIAN SURFACE SHALL BE INSTALLED USING A SLEEVE OR BY CORING THE CONCRETE MEDIAN SURFACE. THE SLEEVE AND CORING OPERATIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. THE SLEEVES AND CORING WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE MEDIAN SURFACE.
- THE INTENT OF THE CONTRACT DOCUMENTS IS TO CONSTRUCT THE FLUTED KNEE WALL BEHIND THE EXISTING CURB AND GUTTER. ANY DAMAGE TO THE EXISTING CURB AND GUTTER SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62693.
- TRAFFIC CONTROL ALONG THE FRONTAGE ROADS AND RAMPS SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- 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).
- CHAIN LINK FENCE, 4' (SPECIAL) SHALL BE INSTALLED AT ALL LOCATIONS WHERE THE EXISTING CHAIN LINK FENCE IS REMOVED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 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)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
GENERAL NOTES AND PROJECT COMMITMENTS
 SCALE: NONE
 DATE: JANUARY 14, 2009
 DRAWN BY: NJH
 CHECKED BY: RMG

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SUMMARY OF QUANTITIES

URBAN 100% STATE
URBAN ROADWAY SFTY-4A

CODE NO.	ITEM	UNIT	QUANTITY	URBAN ROADWAY SFTY-4A
20200100	EARTH EXCAVATION	CU YD	232	232
21101645	TOPSOIL FURNISH AND PLACE, 12"	SO YD	111	111
25000210	SEEDING, CLASS 2A	ACRE	0.03	0.03
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3
25100630	EROSION CONTROL BLANKET	SO YD	111	111
28000510	INLET FILTERS	EACH	29	29
42001300	PROTECTIVE COAT	SO YD	215	215
44000600	SIDEWALK REMOVAL	SO FT	51	51
50300225	CONCRETE STRUCTURES	CU YD	31.9	31.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	22.3	22.3
50300300	PROTECTIVE COAT	SO YD	250	250
50300510	RUSTICATION FINISH	SO FT	291	291
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,258	4,258
60618324	CONCRETE MEDIAN SURFACE, 6 INCH (SPECIAL)	SO FT	367	367
66400550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	994	994
66410300	CHAIN LINK FENCE REMOVAL	FOOT	1,047	1047
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8
* 81000800	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	10	10
* 81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	5	5
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10	10
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	250	250
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	52	52
* X0323363	ELECTRIC CABLE IN CONDUIT, NO. 12 3/C	FOOT	250	250
X0324640	FLUTED KNEEWALL	FOOT	915	915
X0324700	WALL MOUNTED SIGN SUPPORT FOR TYPE I PANEL (SPECIAL)	EACH	1	1
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SO FT	1,568	1,568
X032147a	TEMPORARY CONCRETE BARRIER (REMOVE)	FOOT	720	720
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1	1
Z0030020	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
* X0326312	TRAFFIC SIGNAL POST, PAINTED STEEL (SPECIAL) (7 FT)	EACH	1	1

* SPECIALTY ITEM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	31	3
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
• (1919.15 & 2021-922 PT) I		62985		

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

SUMMARY OF QUANTITIES

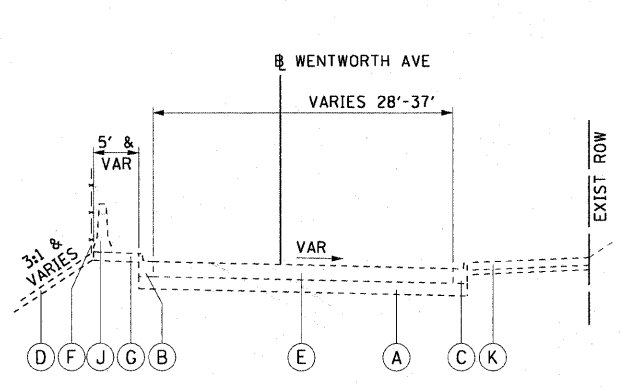
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DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG

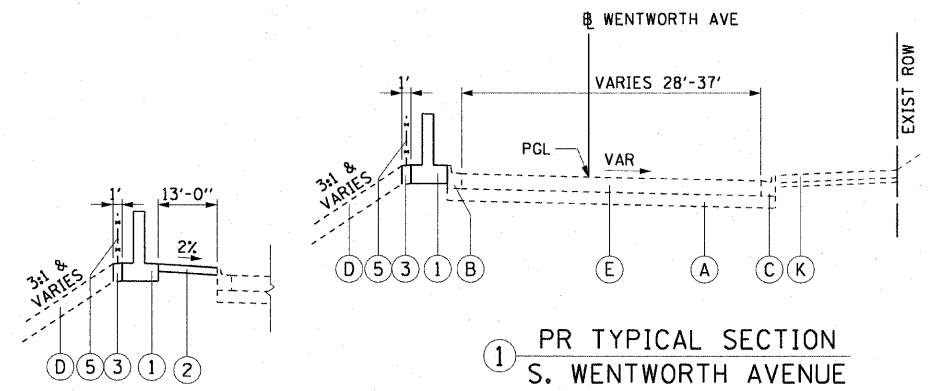
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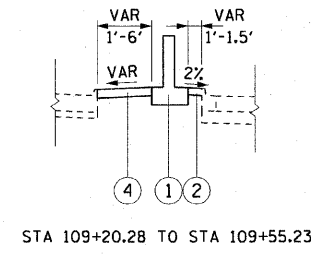
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1919.15 & 2021-922 PT1) 1		62985		



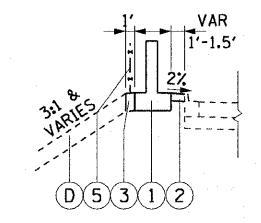
① EX TYPICAL SECTION
S. WENTWORTH AVENUE
STA 105+09.28 TO STA 107+29.52
STA 109+20.37 TO STA 111+25.00



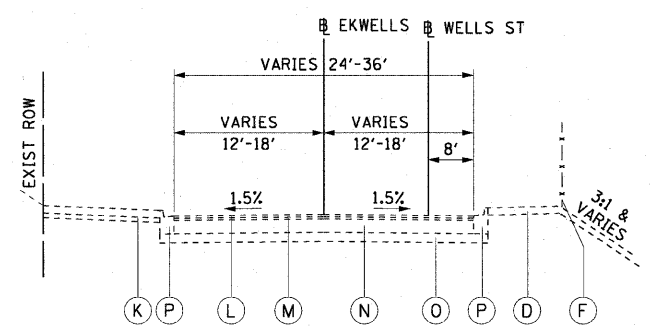
① PR TYPICAL SECTION
S. WENTWORTH AVENUE
STA 105+09.28 TO STA 107+29.52
STA 109+20.28 TO STA 111+25.00



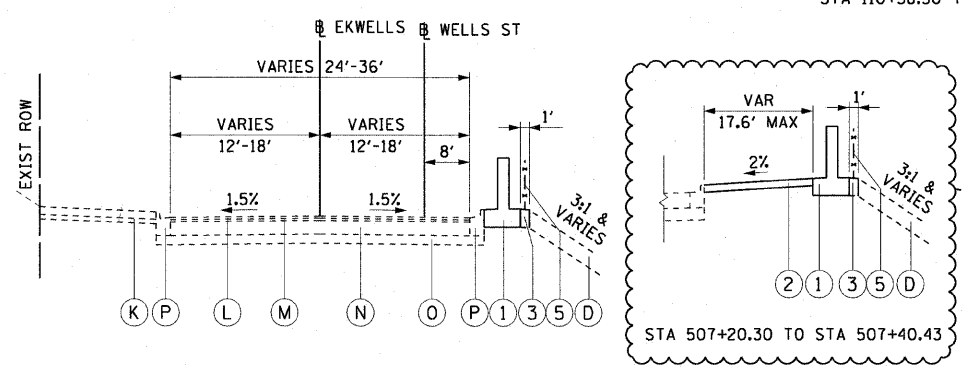
STA 109+20.28 TO STA 109+55.23



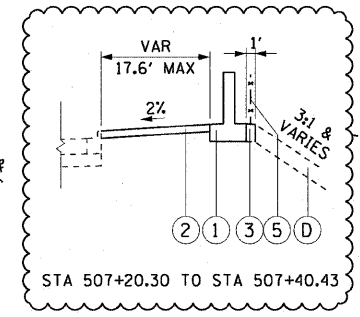
STA 110+38.50 TO STA 111+25.00



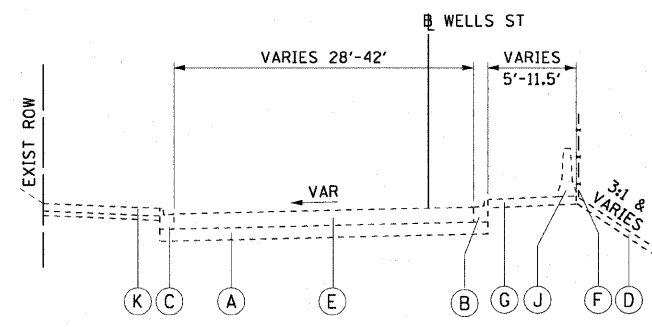
② EX TYPICAL SECTION
S. WELLS STREET
STA 19+42.76 TO STA 22+32.61 (E KWELLS)
STA 506+92.81 TO STA 507+41.82 (E WELLS ST)



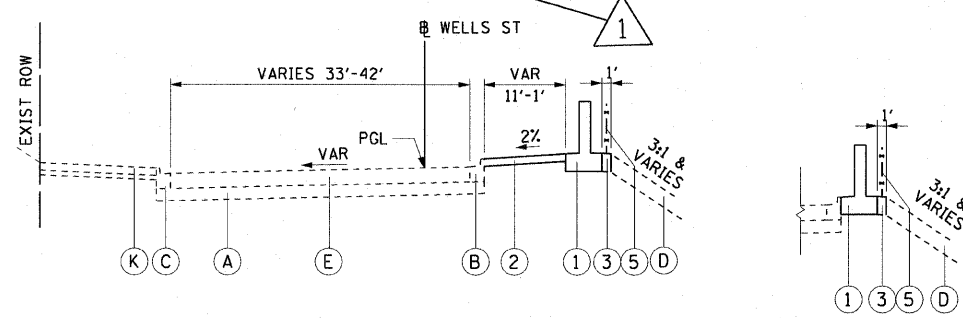
② PR TYPICAL SECTION
S. WELLS STREET
STA 19+42.76 TO STA 22+32.61 (E KWELLS)
STA 506+92.81 TO STA 507+41.82 (E WELLS ST)



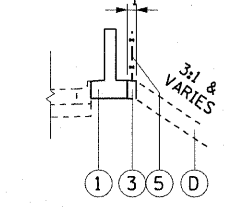
STA 507+20.30 TO STA 507+40.43



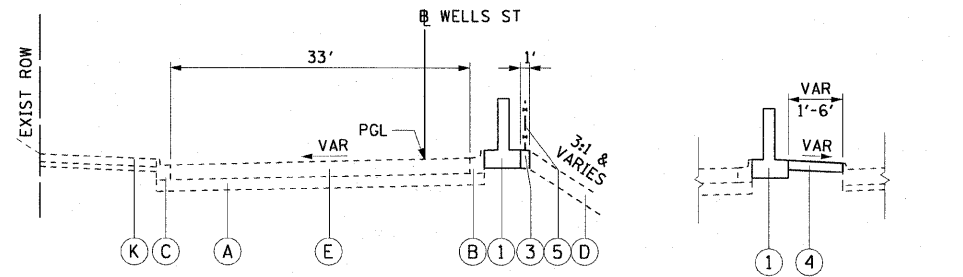
③ EX TYPICAL SECTION
S. WELLS STREET
STA 508+32.38 TO STA 509+41.70
STA 511+28.82 TO STA 513+16.20



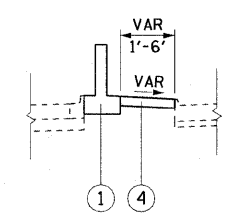
③ PR TYPICAL SECTION
S. WELLS STREET
STA 508+30.95 TO STA 509+41.70



STA 509+18.75 TO STA 509+41.70



④ PR TYPICAL SECTION
S. WELLS STREET
STA 511+17.72 TO STA 513+16.20



STA 511+28.82 TO STA 511+91.34

EXISTING LEGEND:

- (A) SUB-BASE GRANULAR MATERIAL, TYPE B, 8"
- (B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12
- (D) GRASS AREA
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- (F) CHAIN LINK FENCE, 4'
- (G) AGGREGATE BASE COURSE, TYPE B, 4"
- (H) BITUMINOUS SHOULDERS, 1 1/2"
- (J) TEMPORARY CONCRETE BARRIER
- (K) P.C.C. SIDEWALK, 5" AND SAND CUSHION, 3"
- (L) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2"
- (M) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, 1L-19, N70, 1 1/2"
- (N) PCC BASE COURSE, 9"
- (O) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (P) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12

PROPOSED LEGEND:

- (1) FLUTED KNEE WALL
- (2) CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- (3) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- (4) CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
- (5) CHAIN LINK FENCE, 4' (SPECIAL)

NOTE:

1. EXISTING PAVEMENT INFORMATION TAKEN FROM DAN RYAN DESIGN PLANS OR RECORD DRAWINGS.
2. THERE ARE STRUCTURAL DETAILS FOR THE FLUTED KNEE WALL FROM STATION 511+17.72 TO STATION 511+91.34, THIS PORTION OF KNEE WALL WILL NOT BE PAID FOR AS THE STANDARD FLUTED KNEE WALL BUT WILL BE PAID FOR AS DESCRIBED AND SHOWN IN STRUCTURAL DETAIL 2.
3. THERE ARE STRUCTURAL DETAILS FOR THE FLUTED KNEE WALL FROM STATION 109+20.28 TO STATION 109+55.23, THIS PORTION OF KNEE WALL WILL NOT BE PAID FOR AS THE STANDARD FLUTED KNEE WALL BUT WILL BE PAID FOR AS DESCRIBED AND SHOWN IN STRUCTURAL DETAIL 3.
4. THERE ARE STRUCTURAL DETAILS FOR THE FLUTED KNEE WALL FROM STATION 512+75.00 TO STATION 513+16.20, THIS PORTION OF KNEE WALL WILL NOT BE PAID FOR AS THE STANDARD FLUTED KNEE WALL BUT WILL BE PAID FOR AS DESCRIBED AND SHOWN IN STRUCTURAL DETAIL 4.
5. THERE ARE STRUCTURAL DETAILS FOR THE FLUTED KNEE WALL FROM STATION 507+20.30 TO STATION 507+40.43, THIS PORTION OF KNEE WALL WILL NOT BE PAID FOR AS THE STANDARD FLUTED KNEE WALL BUT WILL BE PAID FOR AS DESCRIBED AND SHOWN IN STRUCTURAL DETAIL 1.

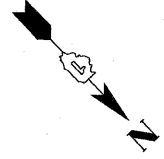
REVISIONS	
NAME	DATE
KNEEWALL CHANGE	5/19/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: H:1"=10', V:1"=5'
DATE: JANUARY 14, 2009
DRAWN BY: NJH
CHECKED BY: RMG

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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

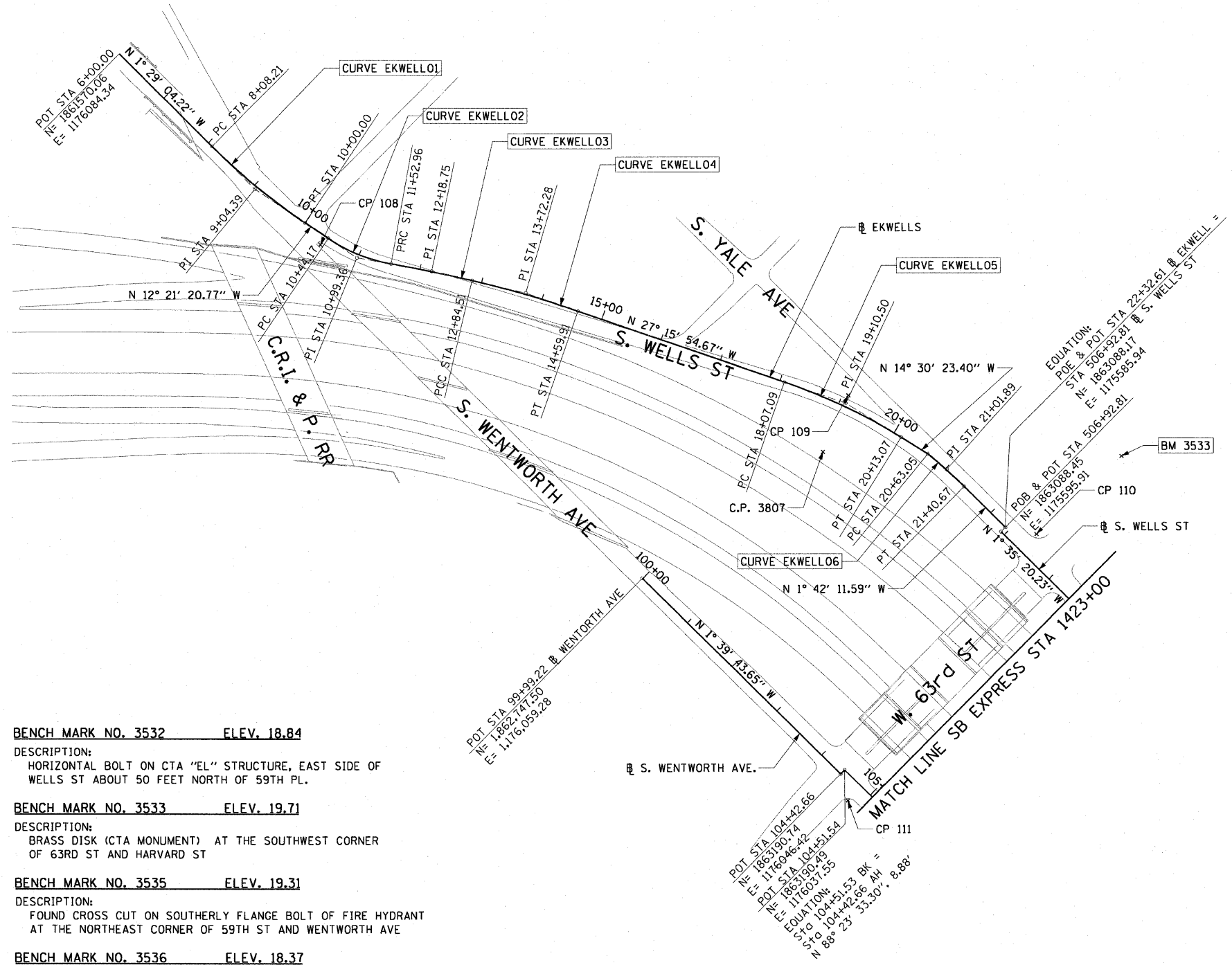
CURVE EKWELLO2
P.I. STA= 10+99.36
N= 1,862,065.35
E= 1,176,034.61
Δ= 23° 41' 58"
D= 21° 47' 07"
R= 263.00'
T= 55.18'
L= 108.78'
E= 4.56'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 10+44.17
N= 1,862,011.45
E= 1,176,002.13
P.T. STA= 11+52.96
N= 1,862,109.97
E= 1,176,002.13

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



- 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

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

- 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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ALIGNMENT PLAN

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

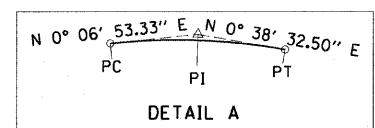
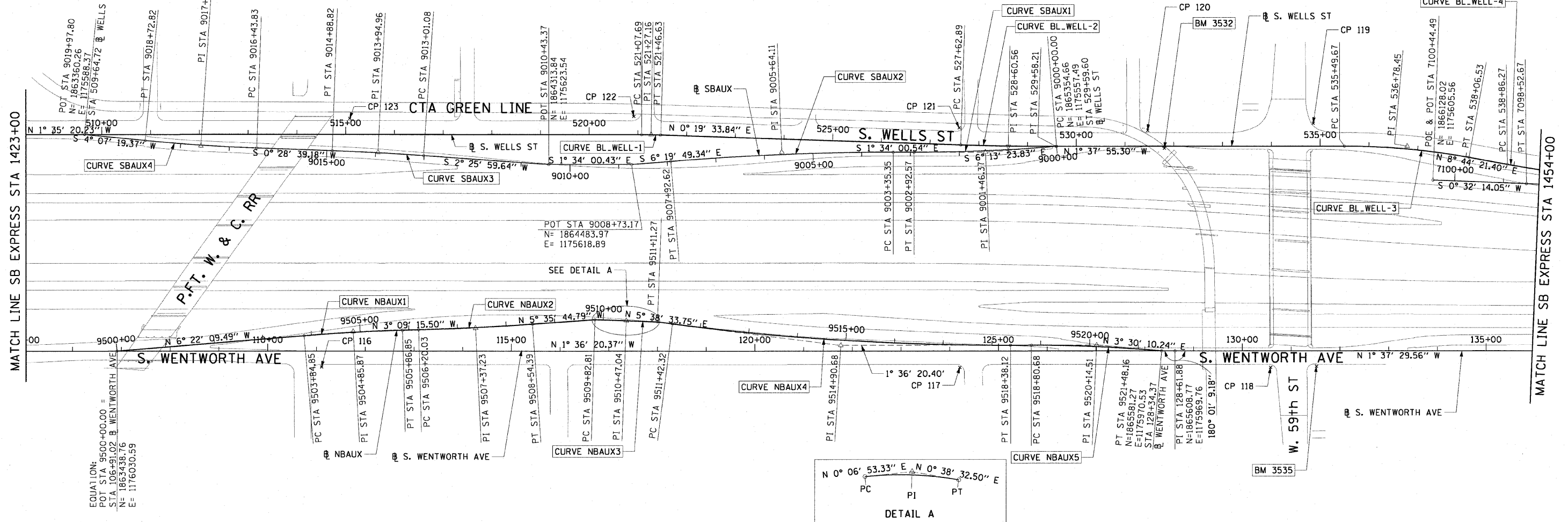
DRAWN BY: NJH
CHECKED BY: RMG

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F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
(1919.15 & 2021-922 PT) I		62985		



CURVE SBAUX1	CURVE SBAUX2	CURVE SBAUX3	CURVE SBAUX4
P.I. STA= 9001+46.37	P.I. STA= 9005+64.11	P.I. STA= 9013+94.96	P.I. STA= 9017+58.36
N= 1,865,209.16	N= 1,864,791.41	N= 1,863,962.56	N= 1,863,599.16
E= 1,175,573.36	E= 1,175,584.78	E= 1,175,608.62	E= 1,175,605.59
Δ= 4° 39' 23"	Δ= 4° 45' 49"	Δ= 1° 57' 20"	Δ= 3° 38' 40"
D= 1° 35' 30"	D= 1° 02' 30"	D= 1° 02' 30"	D= 1° 35' 30"
R= 3600.00'	R= 5500.00'	R= 5500.00'	R= 3600.00'
T= 146.37'	T= 228.77'	T= 93.88'	T= 114.53'
L= 292.57'	L= 457.27'	L= 187.72'	L= 228.99'
E= 2.97'	E= 4.76'	E= 0.80'	E= 1.82'
e= N/A	e= N/A	e= N/A	e= 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= 9000+00.00	P.C. STA= 9003+35.35	P.C. STA= 9013+01.08	P.C. STA= 9016+43.83
N= 1,865,354.66	N= 1,865,020.09	N= 1,864,056.35	N= 1,863,713.69
E= 1,175,557.49	E= 1,175,578.53	E= 1,175,612.60	E= 1,175,606.54
P.T. STA= 9002+92.57	P.T. STA= 9007+92.62	P.T. STA= 9014+88.82	P.T. STA= 9018+72.82
N= 1,865,062.84	N= 1,864,564.03	N= 1,863,868.69	N= 1,863,484.92
E= 1,175,577.36	E= 1,175,610.01	E= 1,175,607.83	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	P.I. STA= 9507+37.23	P.I. STA= 9510+47.04	P.I. STA= 9514+90.68	P.I. STA= 9520+14.51	P.I. STA= 521+27.16	P.I. STA= 528+60.56	P.I. STA= 536+78.45
N= 1,863,921.64	N= 1,864,172.66	N= 1,864,481.34	N= 1,864,923.14	N= 1,865,447.69	N= 1,864,522.25	N= 1,865,255.64	N= 1,866,073.22
E= 1,175,976.69	E= 1,175,962.85	E= 1,175,939.03	E= 1,175,977.06	E= 1,175,962.35	E= 1,175,556.14	E= 1,175,560.31	E= 1,175,537.02
Δ= 3° 12' 54"	Δ= 2° 26' 29"	Δ= 0° 31' 39"	Δ= 7° 14' 54"	Δ= 5° 06' 31"	Δ= 1° 54' 54"	Δ= 1° 57' 29"	Δ= 10° 22' 17"
D= 1° 35' 30"	D= 1° 02' 30"	D= 0° 24' 38"	D= 1° 02' 30"	D= 1° 54' 35"	D= 4° 55' 05"	D= 1° 00' 09"	D= 4° 02' 16"
R= 3600.00'	R= 5500.00'	R= 13952.00'	R= 5500.00'	R= 3000.00'	R= 1165.00'	R= 5715.00'	R= 1419.00'
T= 101.03'	T= 117.20'	T= 64.23'	T= 348.36'	T= 133.83'	T= 19.47'	T= 97.67'	T= 128.78'
L= 202.00'	L= 234.36'	L= 128.46'	L= 695.79'	L= 267.48'	L= 38.94'	L= 195.31'	L= 256.86'
E= 1.42'	E= 1.25'	E= 0.15'	E= 11.02'	E= 2.98'	E= 0.16'	E= 0.83'	E= 5.83'
e= N/A	e= N/A	e= N/A	e= N/A	e= N/A	e= N/A	e= N/A	e= N/A
T.R.= N/A	T.R.= N/A	T.R.= N/A	T.R.= N/A	T.R.= 11' (0')	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	S.E. RUN= 66' (0')	S.E. RUN= N/A	S.E. RUN= N/A	S.E. RUN= N/A
P.C. STA= 9503+84.85	P.C. STA= 9506+20.03	P.C. STA= 9509+82.81	P.C. STA= 9511+42.32	P.C. STA= 9518+80.68	P.C. STA= 521+07.69	P.C. STA= 527+62.89	P.C. STA= 535+49.67
N= 1,863,821.23	N= 1,864,055.64	N= 1,864,417.11	N= 1,864,576.47	N= 1,865,313.91	N= 1,864,502.79	N= 1,865,157.98	N= 1,865,944.49
E= 1,175,987.89	E= 1,175,969.30	E= 1,175,938.90	E= 1,175,942.80	E= 1,175,966.10	E= 1,175,556.68	E= 1,175,559.75	E= 1,175,540.68
P.T. STA= 9505+86.85	P.T. STA= 9508+54.39	P.T. STA= 9511+11.27	P.T. STA= 9518+38.12	P.T. STA= 9521+48.16	P.T. STA= 521+46.63	P.T. STA= 529+58.21	P.T. STA= 538+06.53
N= 1,864,022.51	N= 1,864,289.30	N= 1,864,545.57	N= 1,865,271.36	N= 1,865,581.27	N= 1,864,541.72	N= 1,865,353.27	N= 1,866,200.51
E= 1,175,971.13	E= 1,175,951.42	E= 1,175,939.75	E= 1,175,967.30	E= 1,175,970.53	E= 1,175,556.25	E= 1,175,557.53	E= 1,175,556.58

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ALIGNMENT PLAN

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

DRAWN BY: NJH
 CHECKED BY: RMG



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

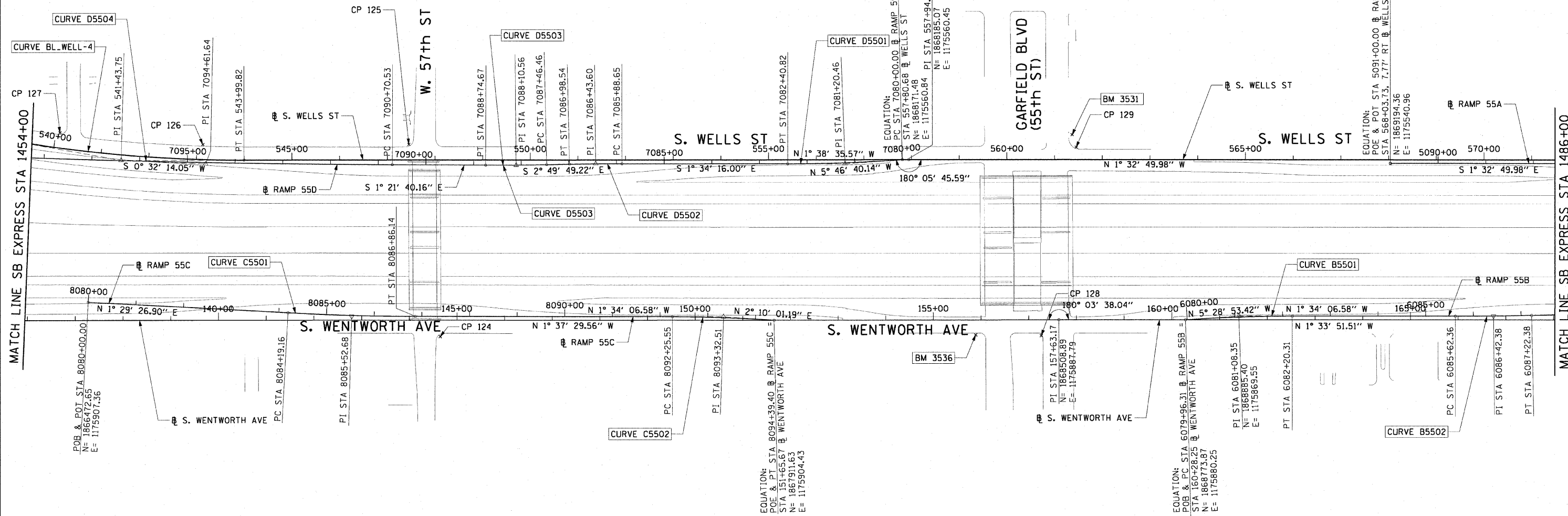
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CURVE BL_WELL-4
P.I. STA= 541+43.75
N= 1,866,533.81
E= 1,175,607.82
Δ= 10° 22' 57"
D= 2° 01' 18"
R= 2834.00'
T= 257.48'
L= 513.55'
E= 11.67'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 538+86.27
N= 1,866,279.32
E= 1,175,568.70
P.T. STA= 543+99.82
N= 1,866,791.18
E= 1,175,600.44

CURVE B5501
P.I. STA= 6081+08.35
N= 1,868,885.40
E= 1,175,869.55
Δ= 3° 54' 47"
D= 1° 44' 49"
R= 3280.00'
T= 112.05'
L= 224.01'
E= 1.91'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6079+96.31
N= 1,868,773.87
E= 1,175,880.25
P.T. STA= 6082+20.31
N= 1,868,997.41
E= 1,175,866.48

CURVE B5502
P.I. STA= 6086+42.38
N= 1,869,419.31
E= 1,175,854.93
Δ= 1° 08' 45"
D= 0° 42' 58"
R= 8002.00'
T= 80.01'
L= 160.02'
E= 0.40'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6085+62.36
N= 1,869,339.33
E= 1,175,857.12
P.T. STA= 6087+22.38
N= 1,869,499.24
E= 1,175,851.14



CURVE C5501
P.I. STA= 8085+52.68
N= 1,867,025.15
E= 1,175,921.74
Δ= 3° 03' 33"
D= 1° 08' 45"
R= 5000.00'
T= 133.52'
L= 266.97'
E= 1.78'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8084+19.16
N= 1,866,891.67
E= 1,175,918.26
P.T. STA= 8086+86.14
N= 1,867,158.61
E= 1,175,918.08

CURVE C5502
P.I. STA= 8093+32.51
N= 1,867,804.75
E= 1,175,900.39
Δ= 3° 44' 08"
D= 1° 44' 49"
R= 3280.00'
T= 106.96'
L= 213.84'
E= 1.74'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8092+25.55
N= 1,867,697.83
E= 1,175,903.32
P.T. STA= 8094+39.40
N= 1,867,911.63
E= 1,175,904.43

CURVE D5501
P.I. STA= 7081+20.46
N= 1,868,051.63
E= 1,175,572.97
Δ= 4° 12' 24"
D= 1° 44' 49"
R= 3280.00'
T= 120.46'
L= 240.82'
E= 2.21'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7080+00.00
N= 1,868,171.48
E= 1,175,560.84
P.T. STA= 7082+40.82
N= 1,867,931.21
E= 1,175,576.27

CURVE D5502
P.I. STA= 7086+43.60
N= 1,867,528.58
E= 1,175,587.31
Δ= 1° 15' 33"
D= 1° 08' 45"
R= 5000.00'
T= 54.95'
L= 109.89'
E= 0.30'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7085+88.65
N= 1,867,583.50
E= 1,175,585.81
P.T. STA= 7086+98.54
N= 1,867,473.70
E= 1,175,590.03

CURVE D5503
P.I. STA= 7088+10.56
N= 1,867,361.81
E= 1,175,595.56
Δ= 1° 28' 09"
D= 1° 08' 45"
R= 5000.00'
T= 64.11'
L= 128.21'
E= 0.41'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7087+46.46
N= 1,867,425.84
E= 1,175,592.39
P.T. STA= 7088+74.67
N= 1,867,297.72
E= 1,175,597.08

CURVE D5504
P.I. STA= 7094+61.64
N= 1,866,710.92
E= 1,175,611.02
Δ= 1° 53' 54"
D= 0° 14' 34"
R= 23606.00'
T= 391.11'
L= 782.14'
E= 3.24'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7090+70.53
N= 1,867,101.91
E= 1,175,601.73
P.T. STA= 7098+52.67
N= 1,866,319.83
E= 1,175,607.36

- 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)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ALIGNMENT PLAN

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

DRAWN BY: NJH
CHECKED BY: RMG



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F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 8
STA. FED. ROAD DIST. NO. 1		TO STA. ILLINOIS		FED. AID PROJECT * (1919.15 & 2021-922 PT1) I
				62985



CURVE C4701
P.I. STA= 8068+34.90
N= 1,872,302.10
E= 1,175,769.16
Δ= 2° 04' 05"
D= 1° 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

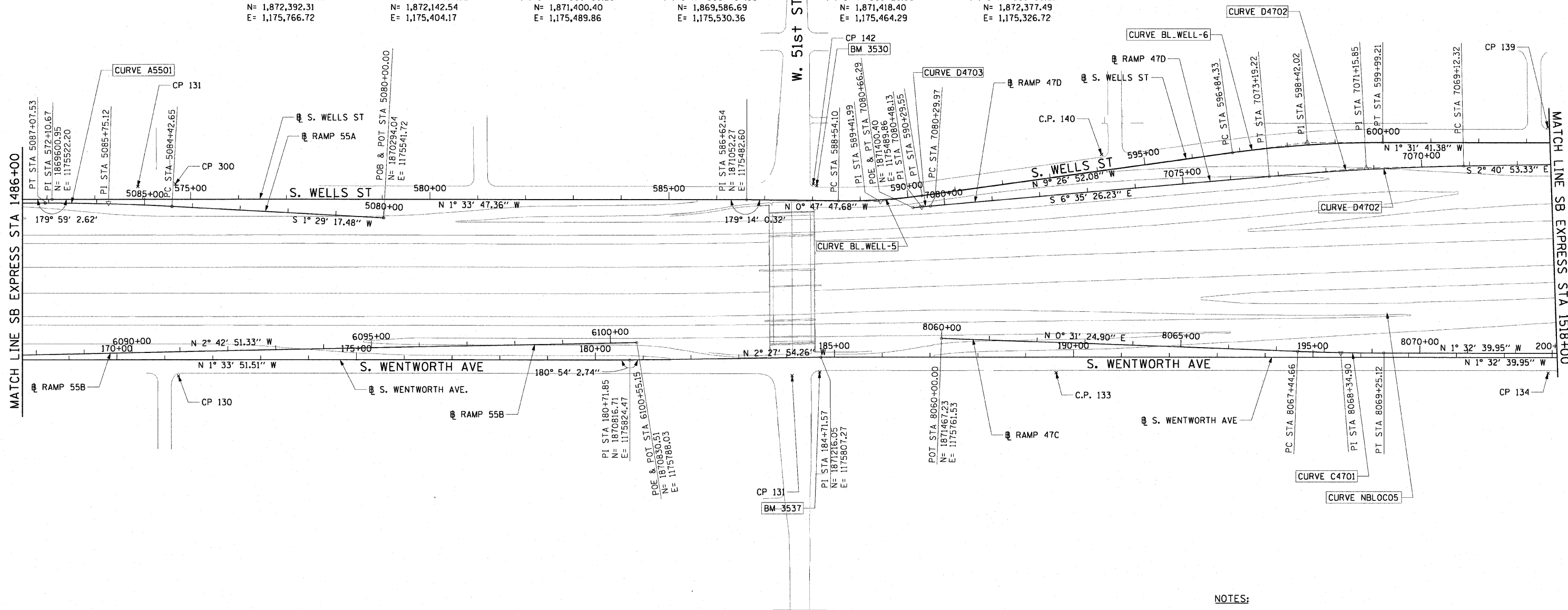
CURVE D4702
P.I. STA= 7071+15.85
N= 1,872,344.72
E= 1,175,380.81
Δ= 3° 54' 33"
D= 0° 57' 38"
R= 5964.00'
T= 203.53'
L= 406.91'
E= 3.47'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7069+12.32
N= 1,872,548.03
E= 1,175,371.29
P.T. STA= 7073+19.22
N= 1,872,142.54
E= 1,175,404.17

CURVE D4703
P.I. STA= 7080+48.13
N= 1,871,418.45
E= 1,175,487.83
Δ= 0° 11' 56"
D= 0° 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

CURVE A5501
P.I. STA= 5085+75.12
N= 1,869,719.11
E= 1,175,526.79
Δ= 3° 02' 07"
D= 1° 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

CURVE BL.WELL-5
P.I. STA= 589+41.99
N= 1,871,331.70
E= 1,175,478.71
Δ= 8° 39' 04"
D= 4° 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

CURVE BL.WELL-6
P.I. STA= 598+42.02
N= 1,872,219.86
E= 1,175,330.92
Δ= 7° 55' 11"
D= 2° 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)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ALIGNMENT PLAN

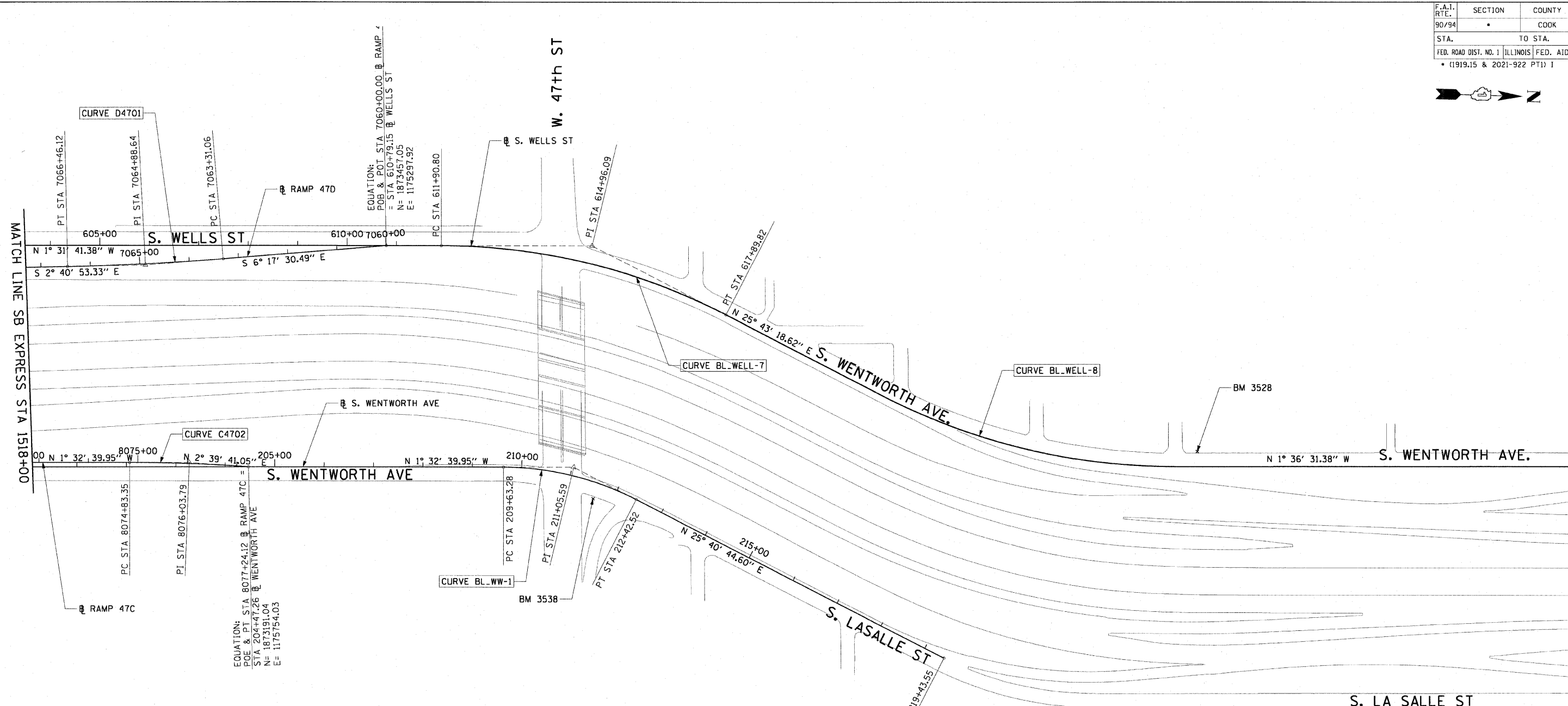
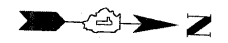
SCALE: 1"=100'
DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG



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F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 9
STA. 90/94		TO STA. 90/94		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
• (1919.15 & 2021-922 PT) I		62985		



CURVE D4701
 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

CURVE C4702
 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

CURVE BL_WELL-8
 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

CURVE BL_WELL-7
 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

CURVE BL_WW-1
 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

- 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)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ALIGNMENT PLAN

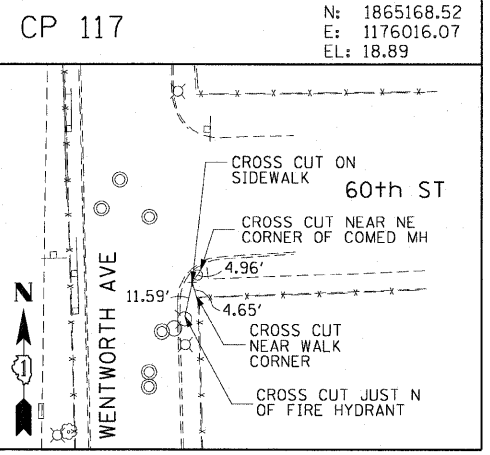
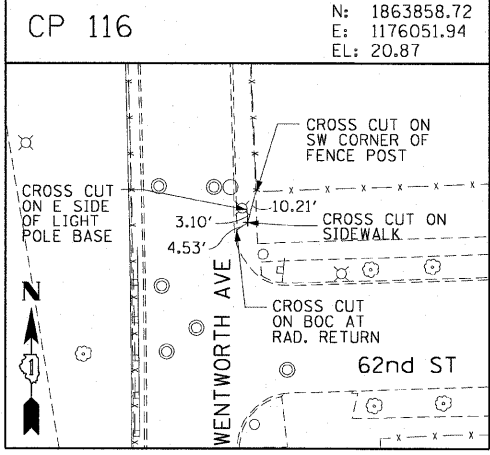
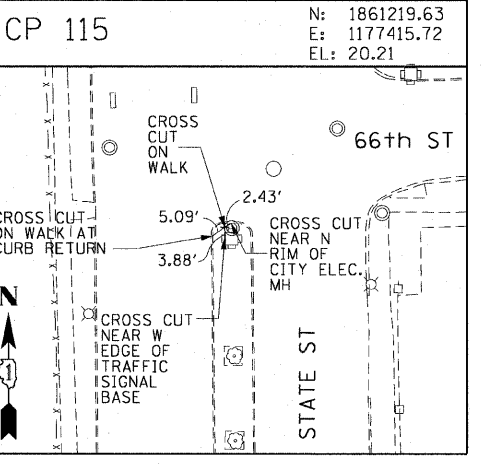
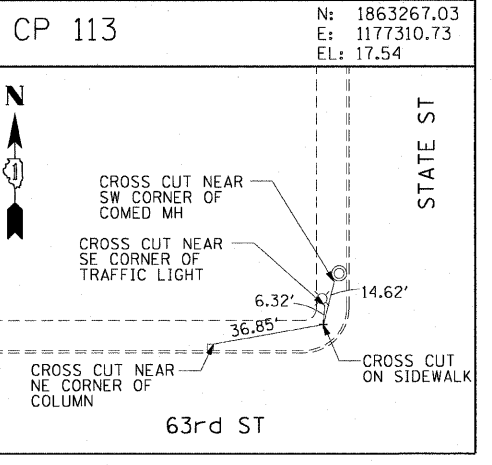
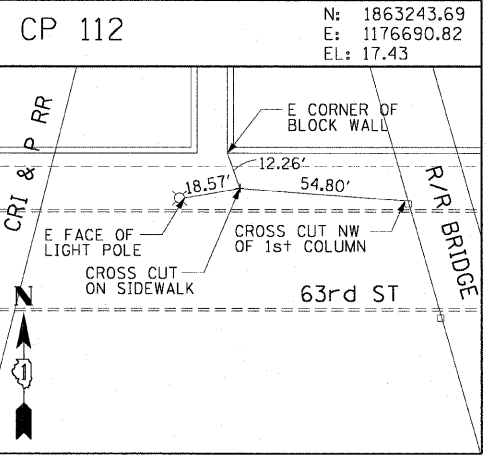
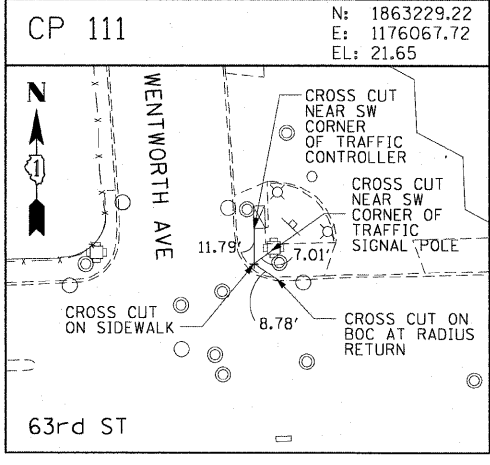
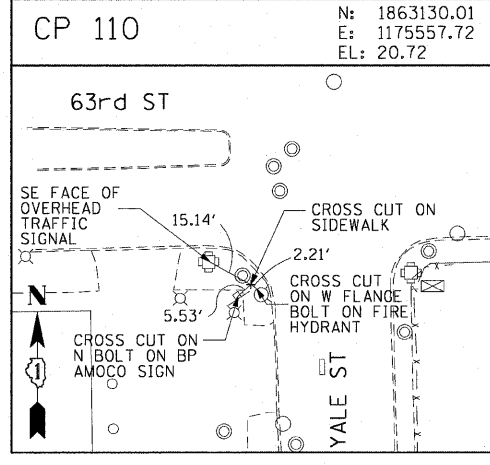
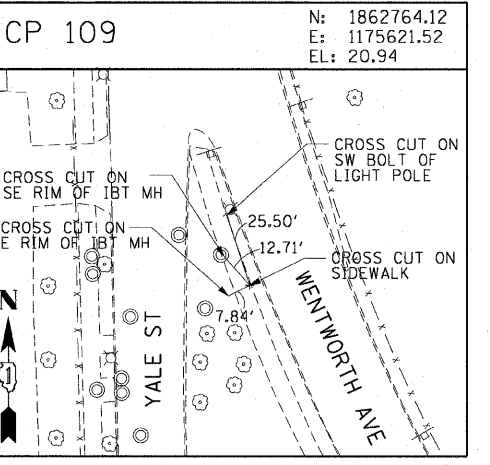
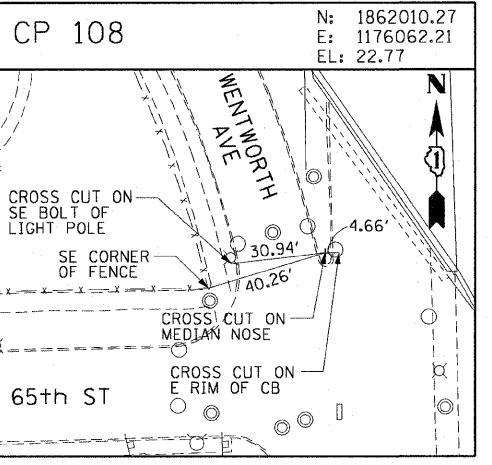
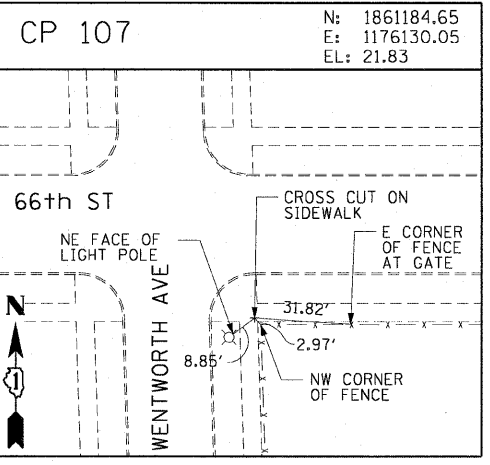
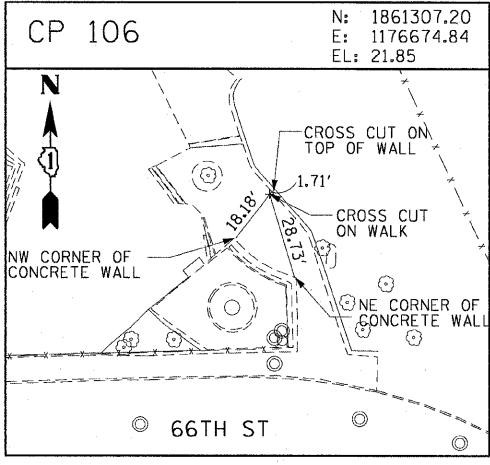
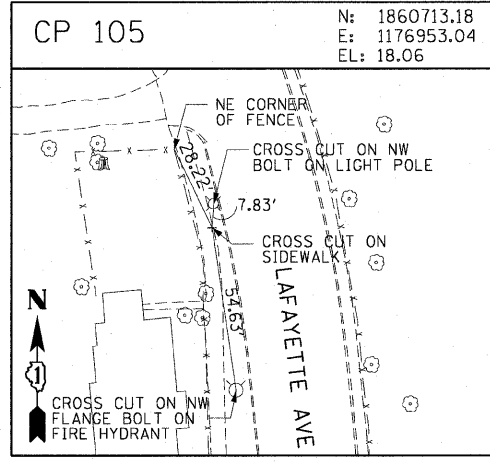
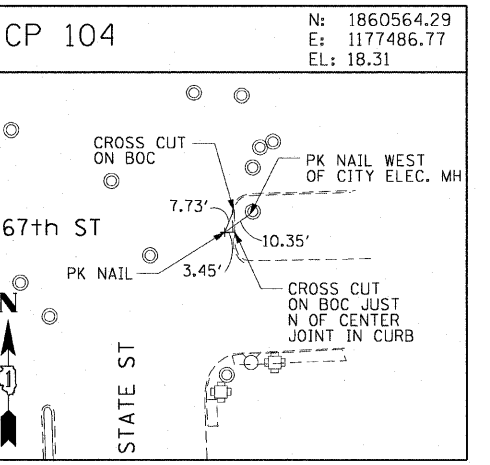
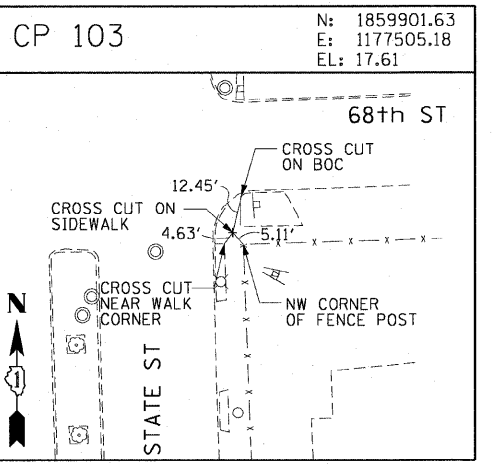
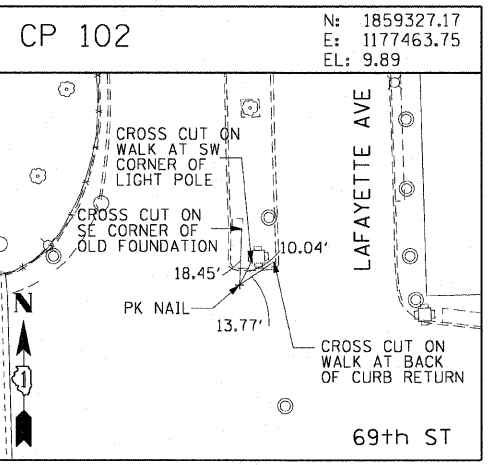
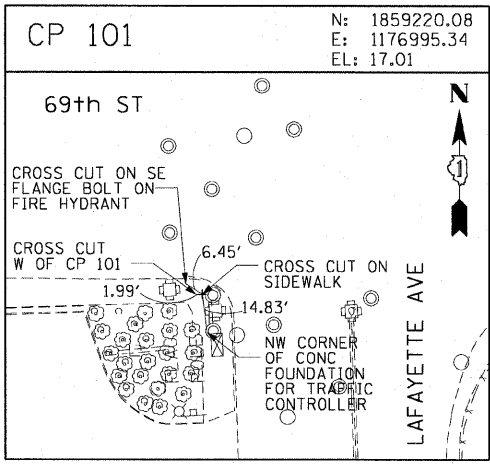
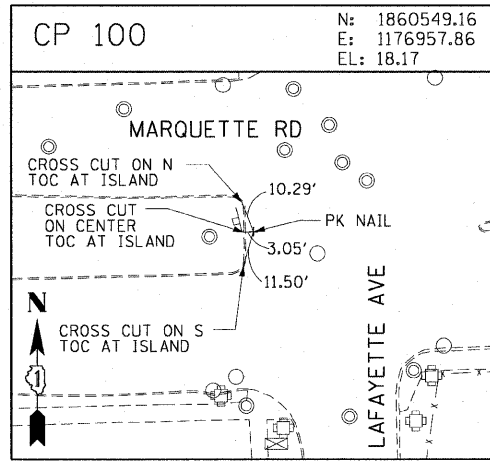
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DRAWN BY: NJH
 CHECKED BY: RMG



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F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62985
(1919.15 & 2021-922 PT) 1				



AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

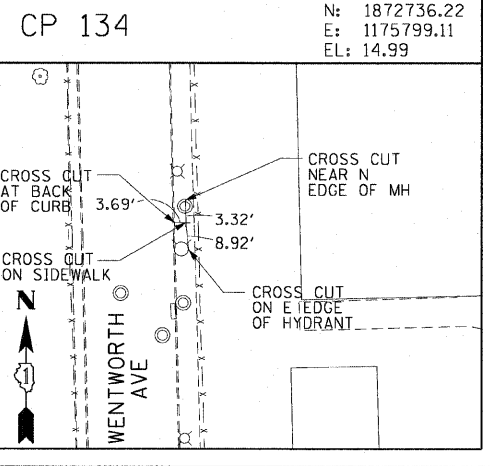
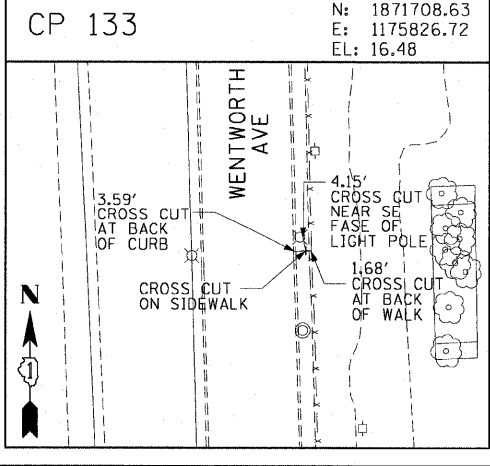
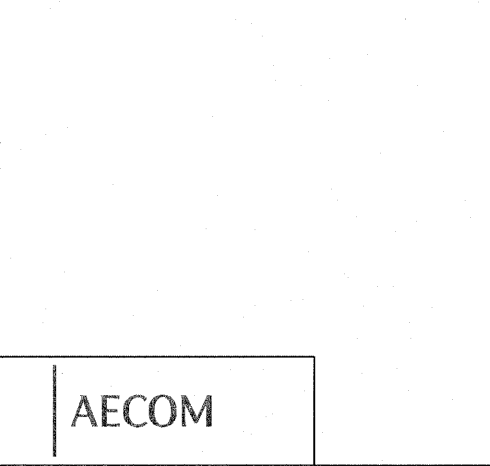
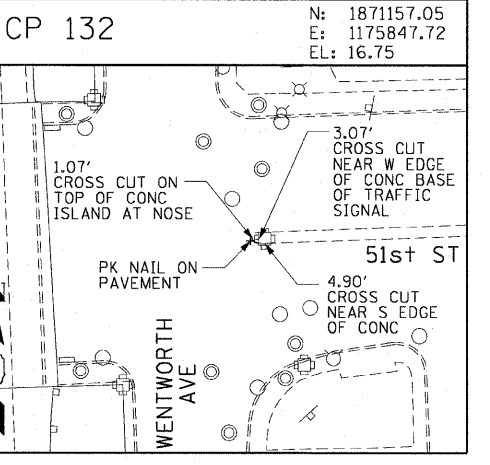
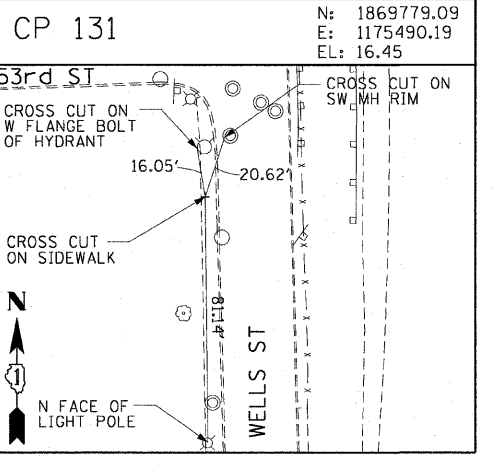
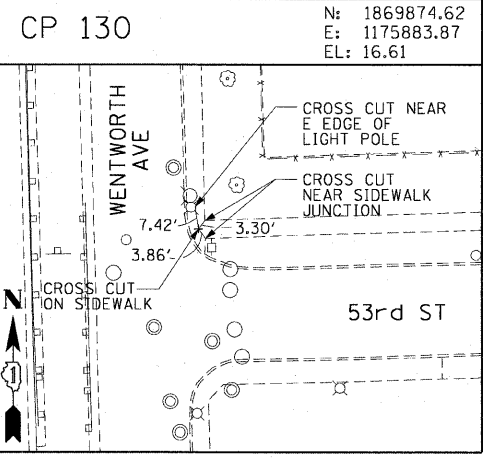
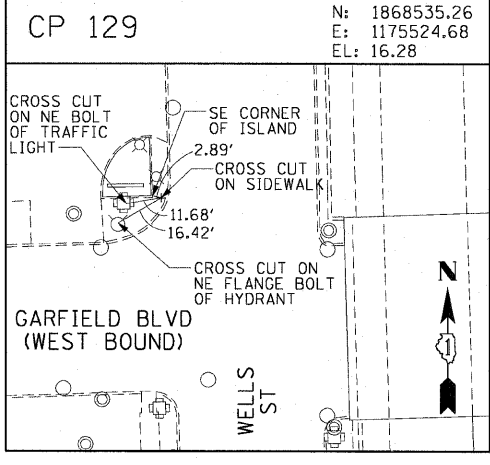
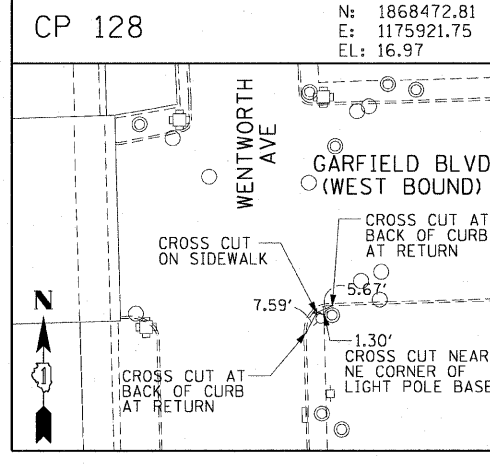
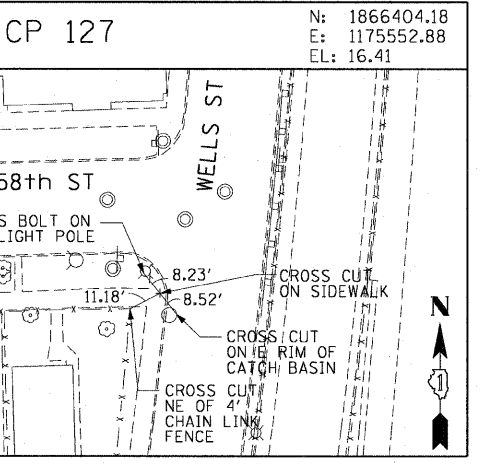
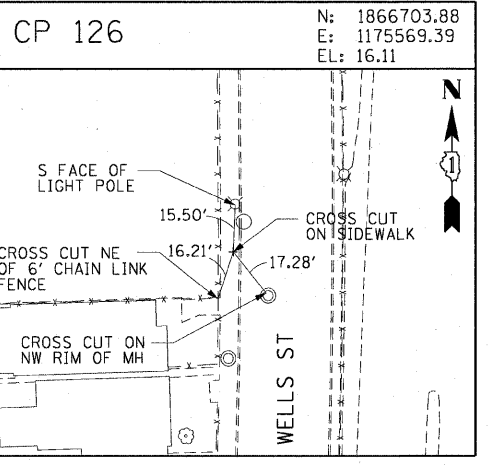
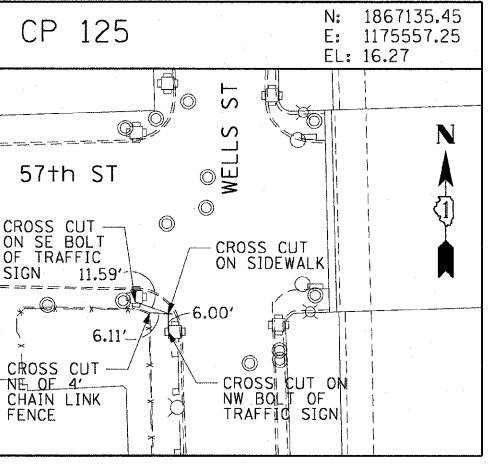
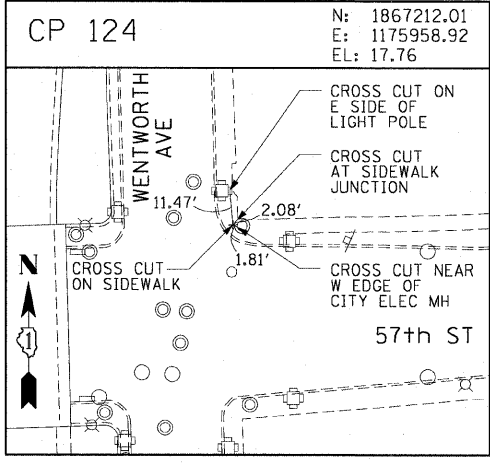
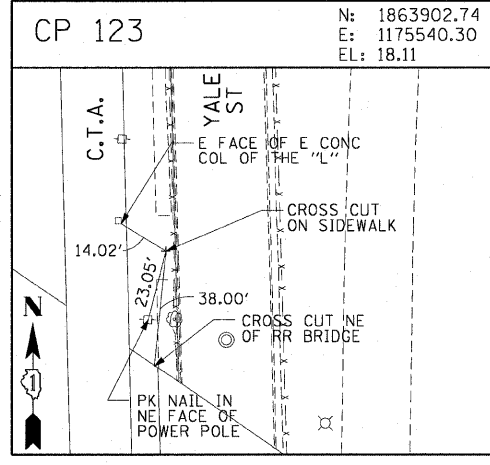
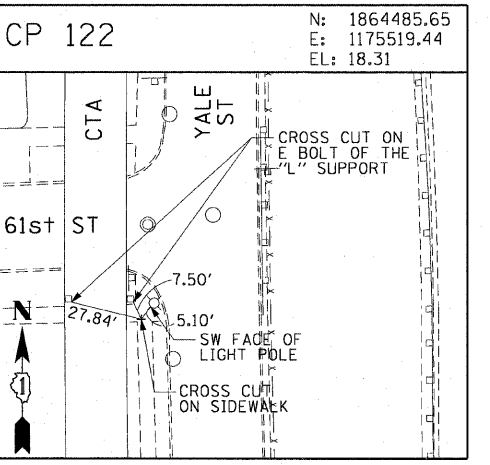
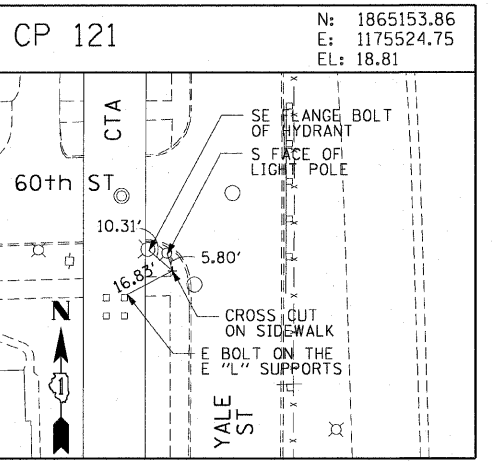
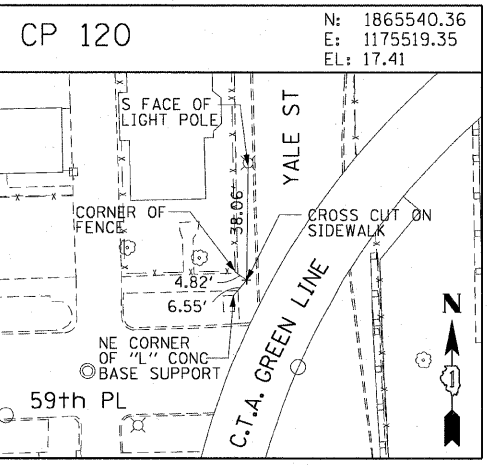
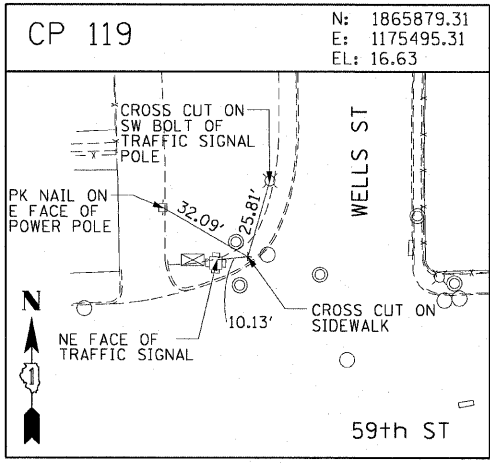
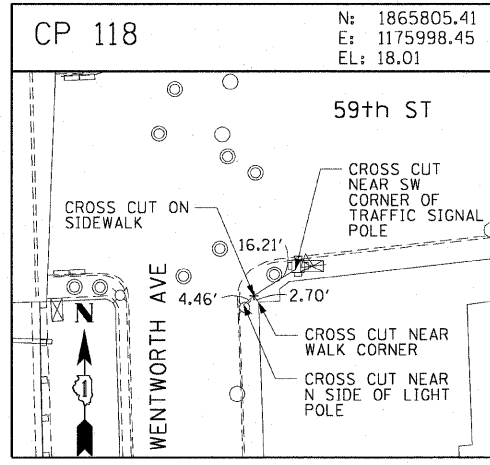
SURVEY TIES AND CONTROL POINTS

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 DATE: JANUARY 14, 2009

DRAWN BY: MRK
 CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
				(1919.15 & 2021-922 PT) 1
				62985



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

SURVEY TIES AND CONTROL POINTS

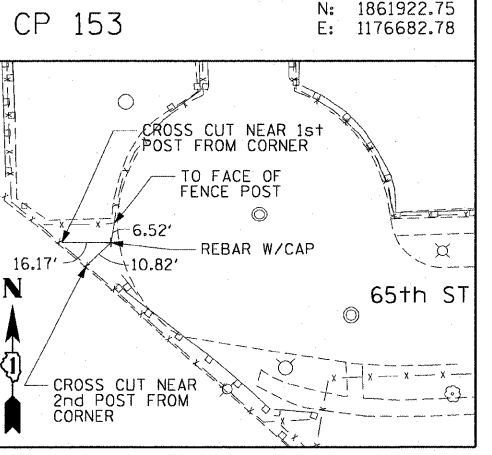
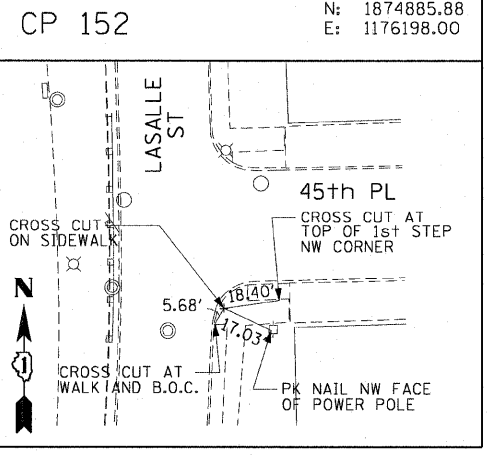
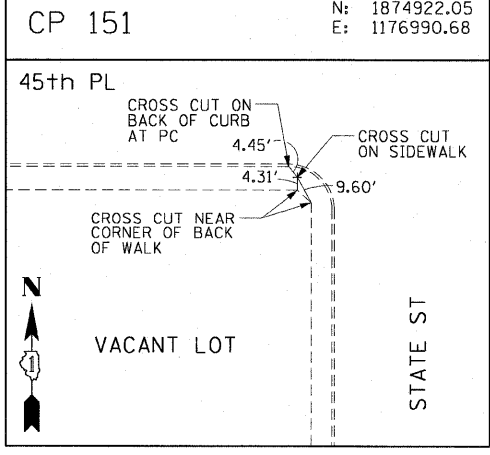
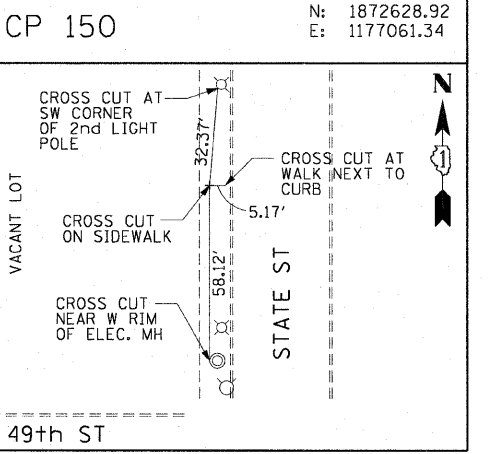
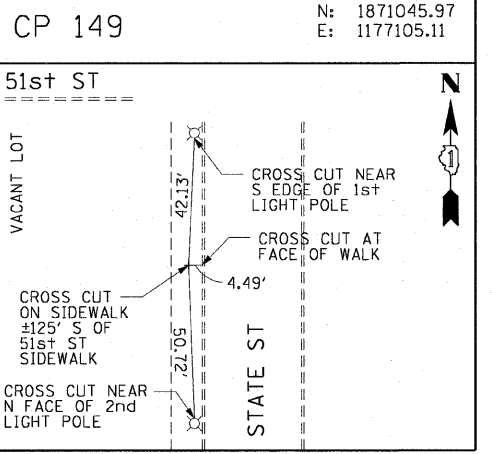
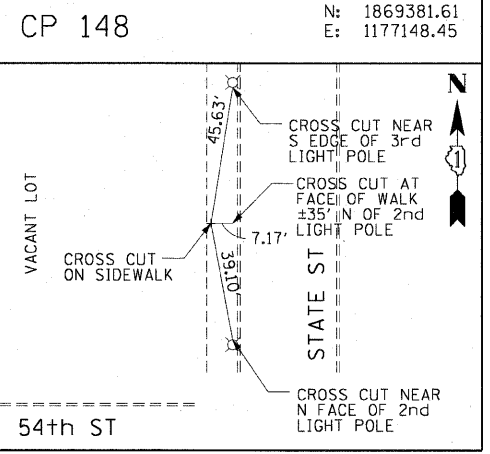
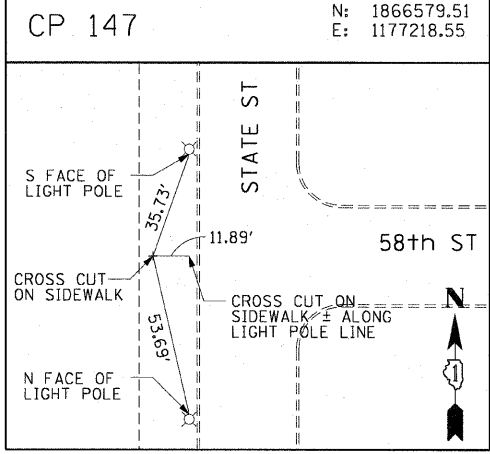
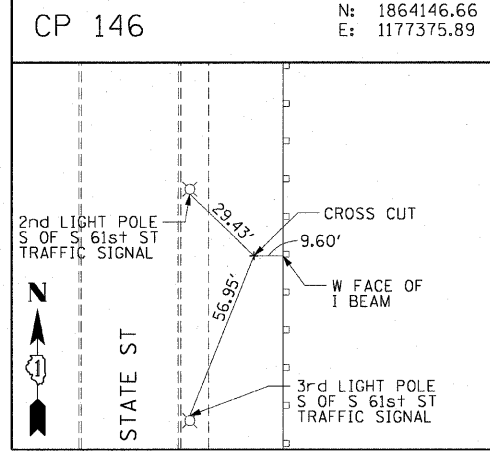
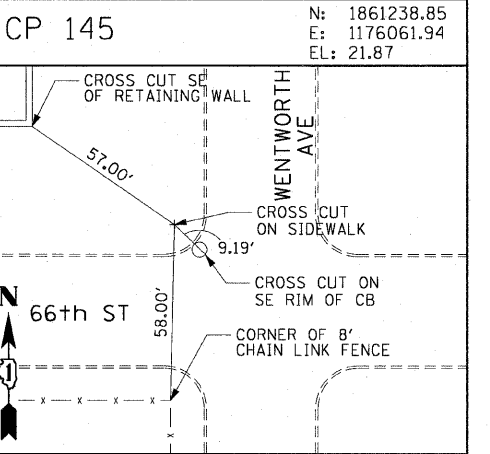
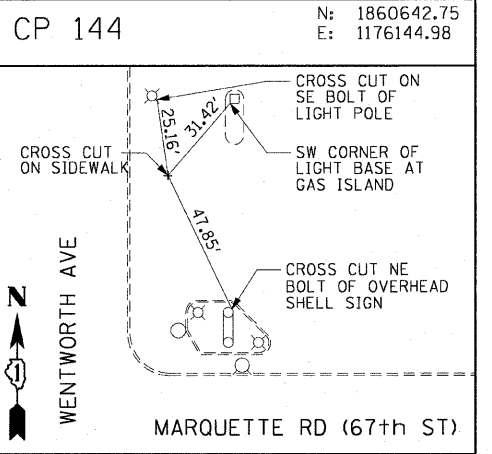
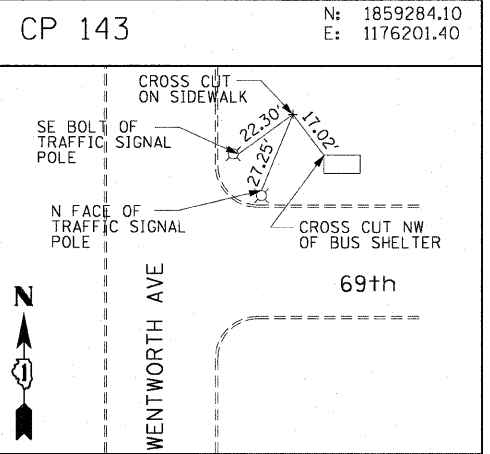
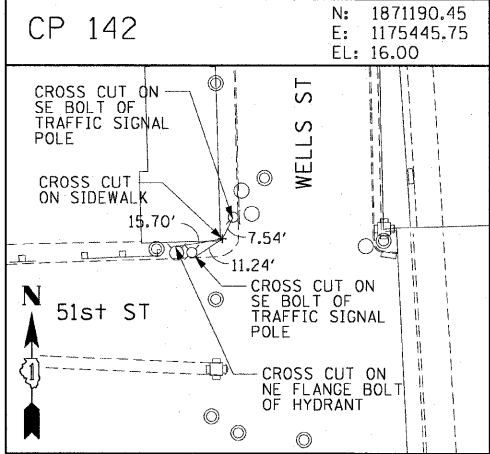
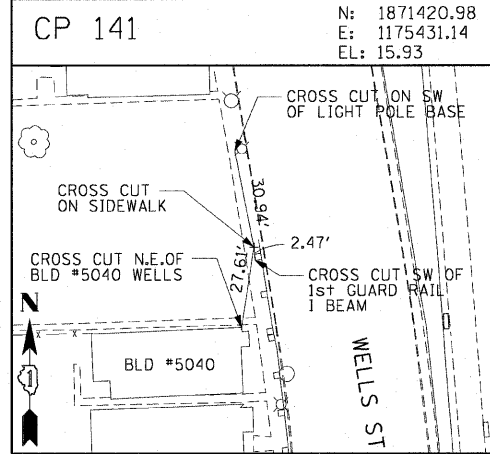
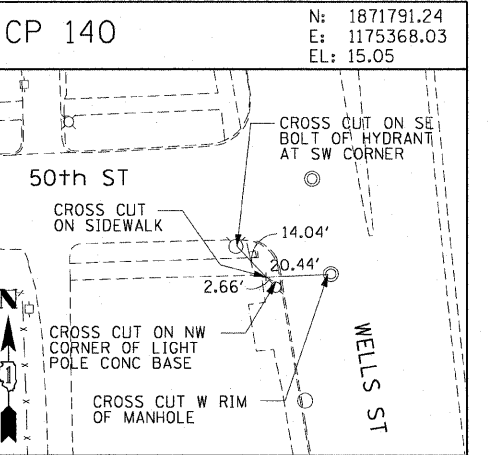
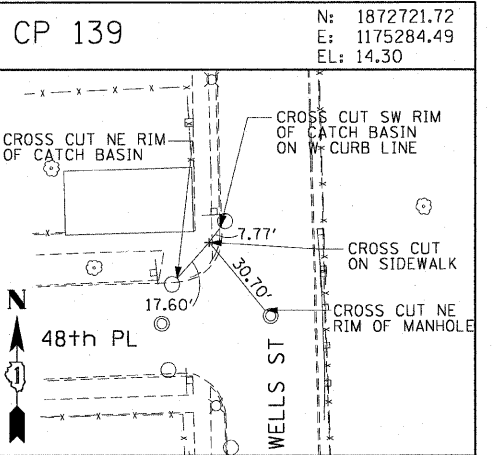
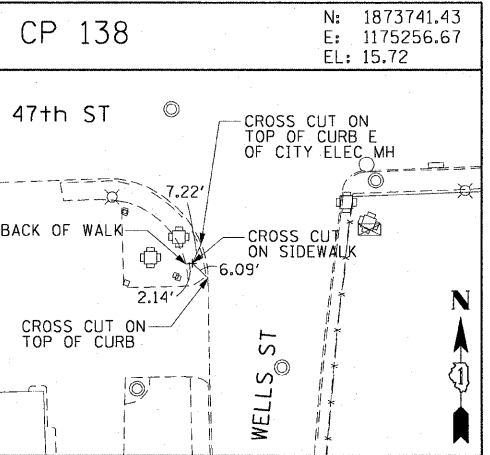
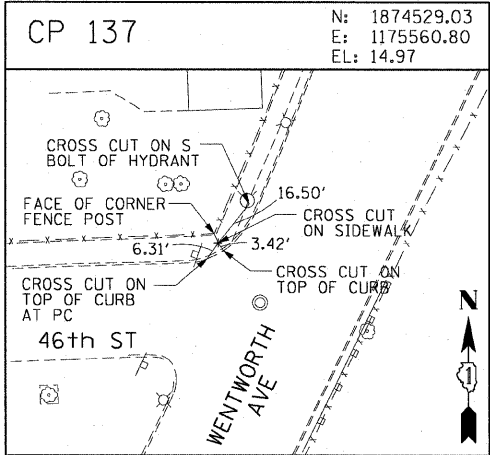
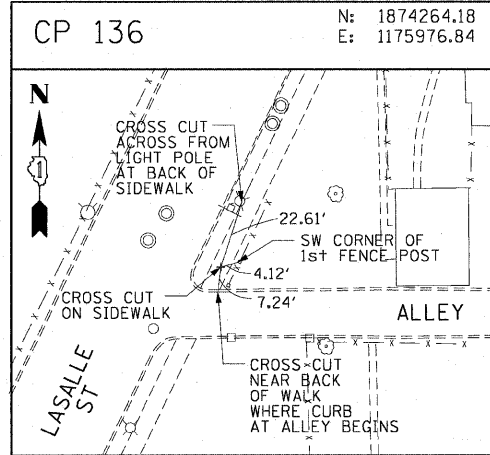
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CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	31	12
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
				62985



AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

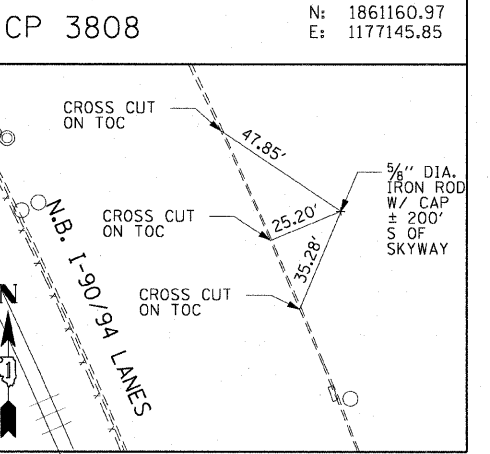
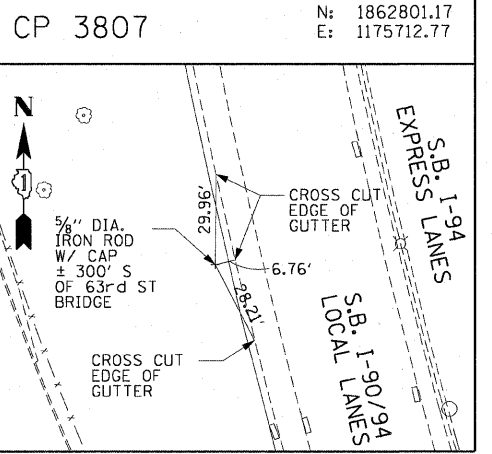
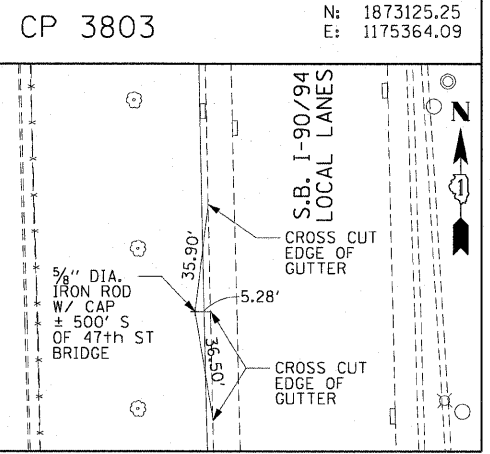
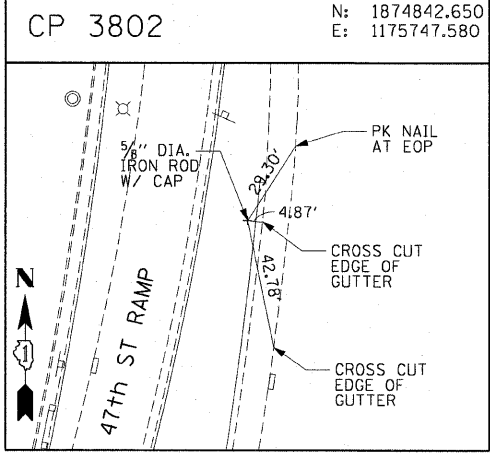
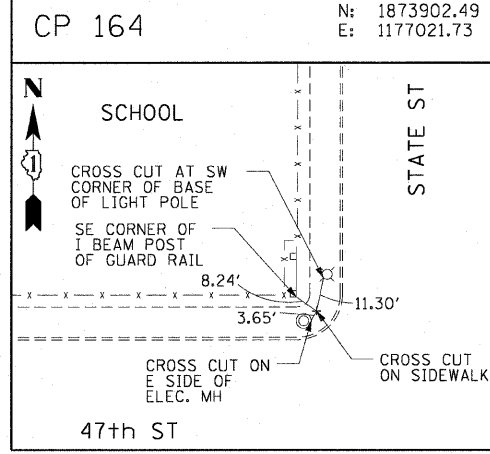
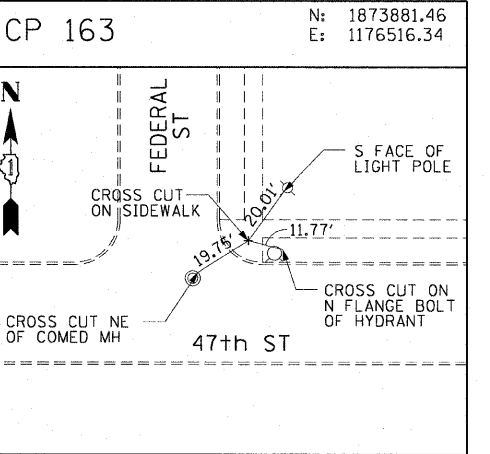
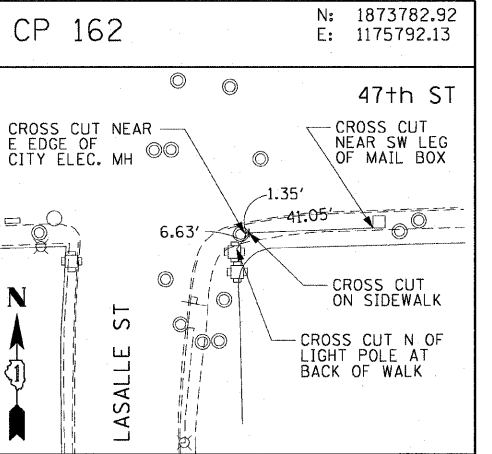
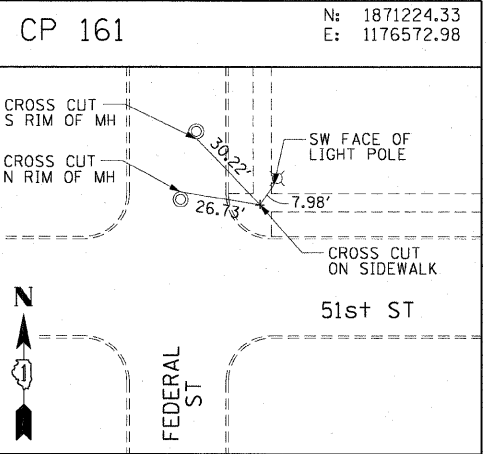
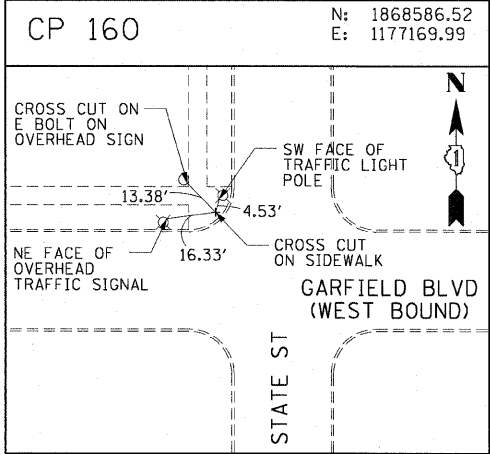
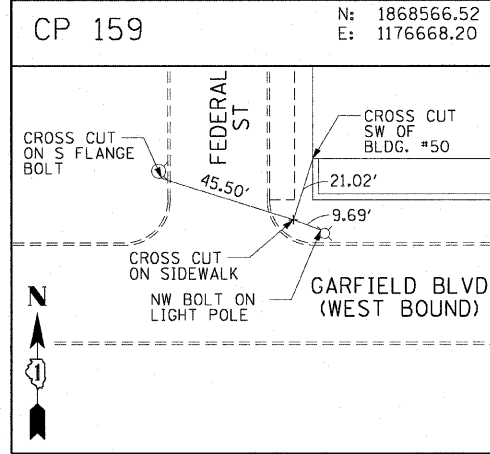
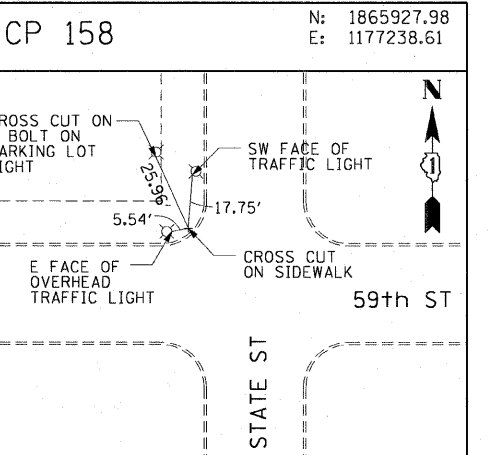
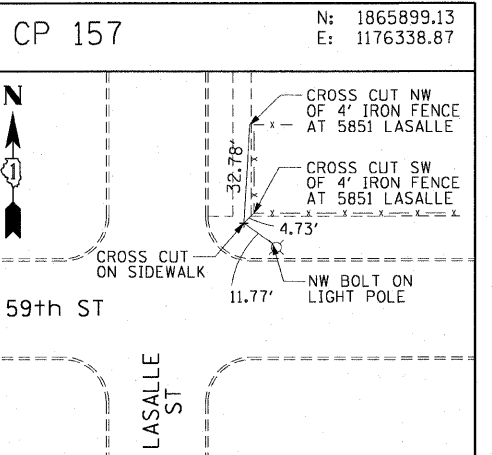
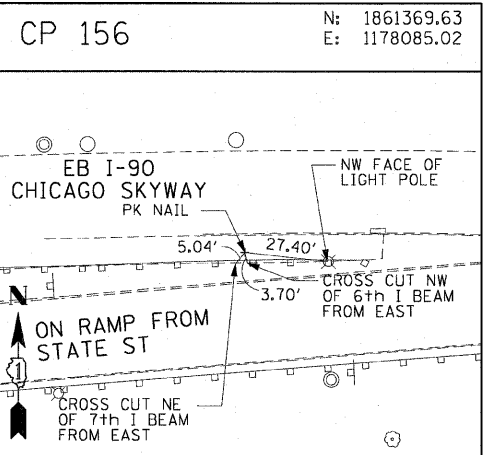
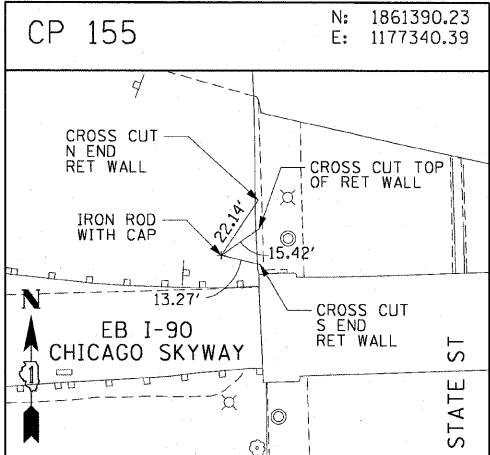
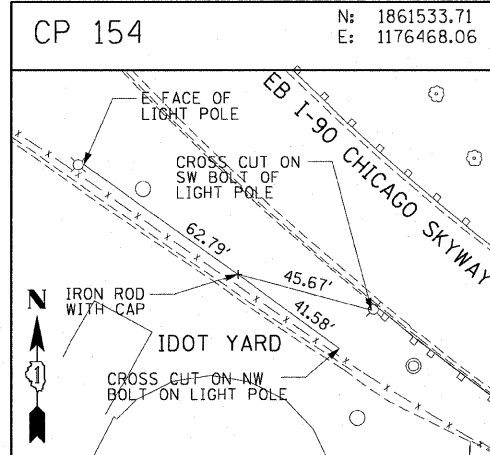
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SCALE: 1"=30'
DATE: JANUARY 14, 2009

DRAWN BY: MRK
CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	13
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		• (1919.15 & 2021-922 PT) I		
				62985



AECOM

REVISIONS	
NAME	DATE




ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
 SURVEY TIES AND CONTROL POINTS
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 DRAWN BY: MRK
 CHECKED BY: JAL

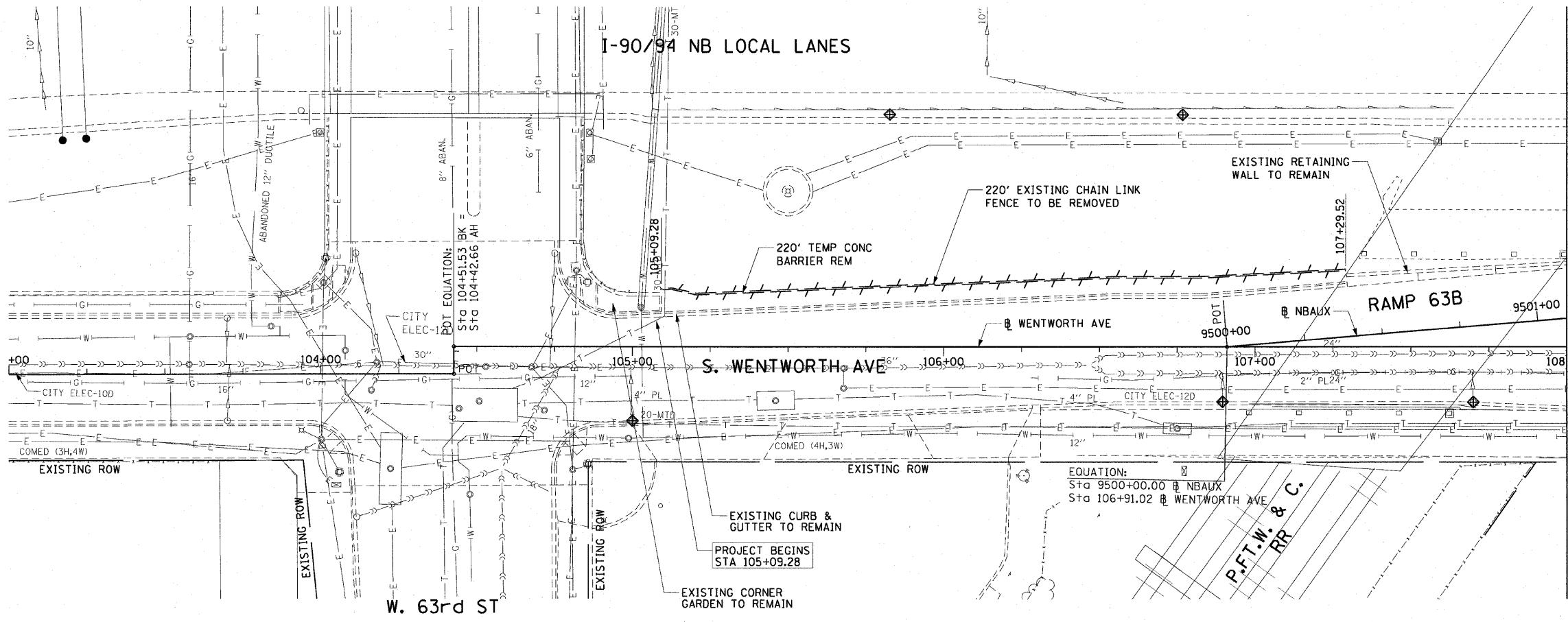
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	14
STA. 105+09.28 TO STA. 108+00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1919.15 & 2021-922 PT1) I 62985				

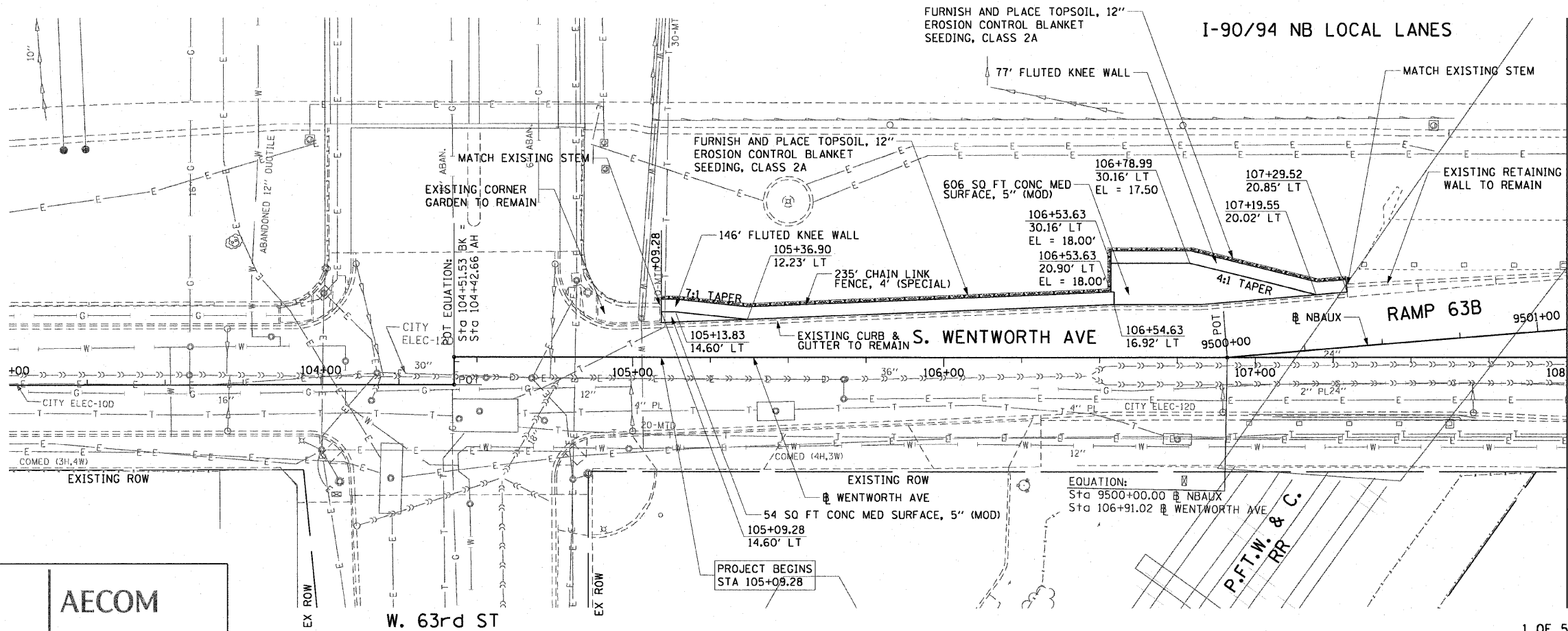


LEGEND:

-  AREA REMOVALS
-  LINEAR REMOVALS
-  INLET FILTER



EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE (SEE BELOW).
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN AND CONCRETE CURB DETAILS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS
WENTWORTH AVENUE

SCALE: 1"=20'
DATE: JANUARY 14, 2009




DRAWN BY: NJH
CHECKED BY: RMG

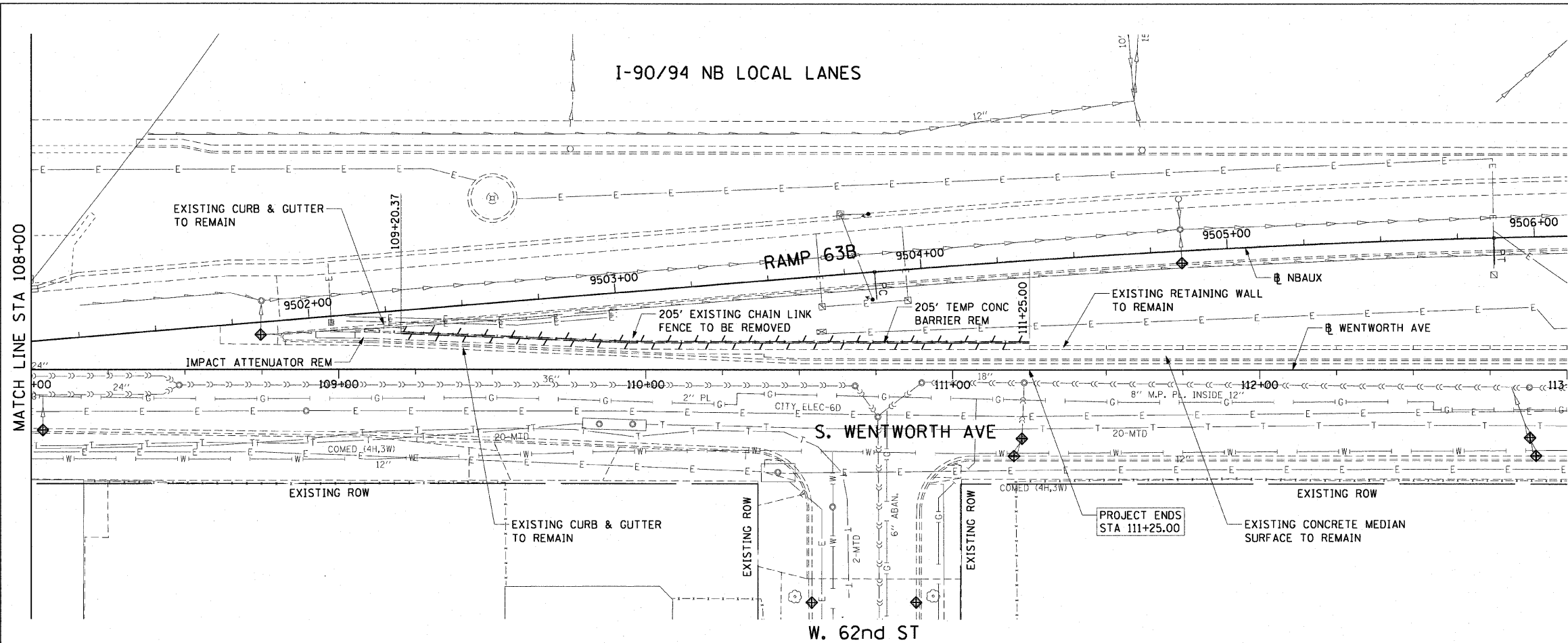
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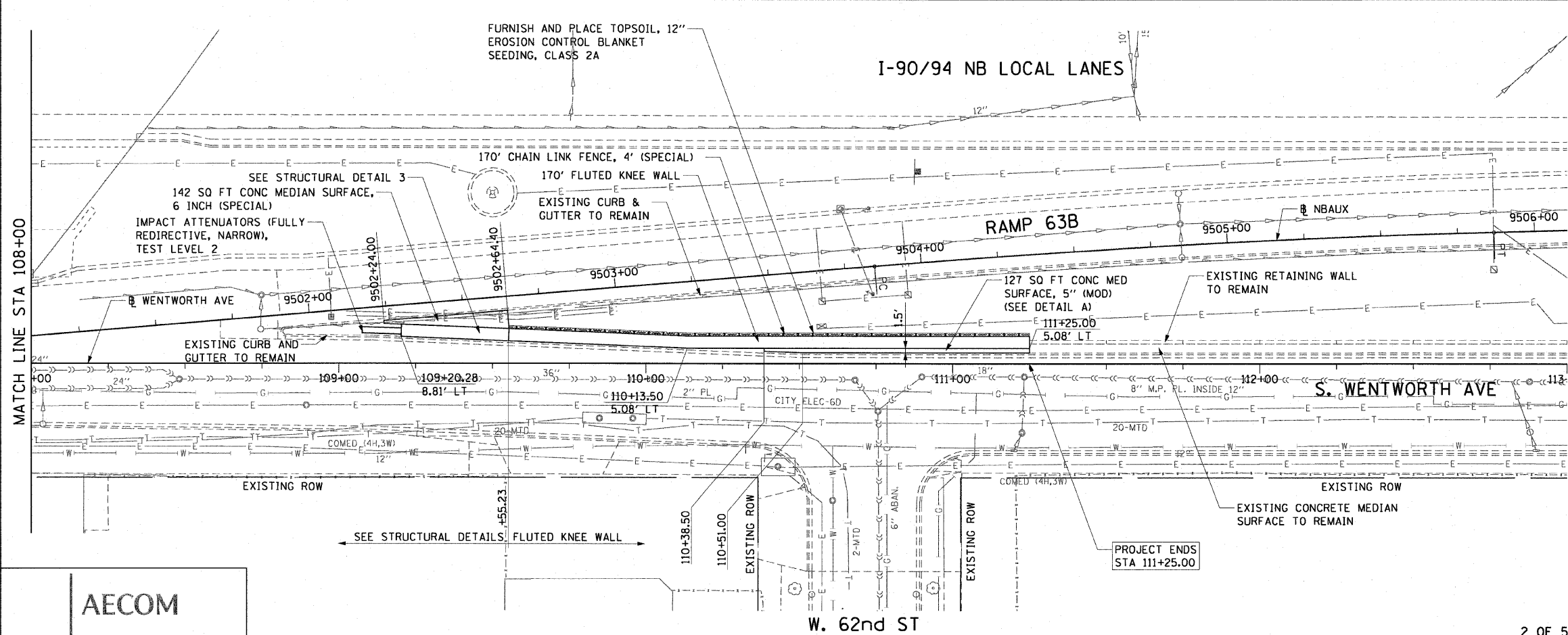
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	15
STA. 108+00		TO STA. 111+25.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1919.15 & 2021-922 PT) I				62985

LEGEND:

-  AREA REMOVALS
-  LINEAR REMOVALS
-  INLET FILTER

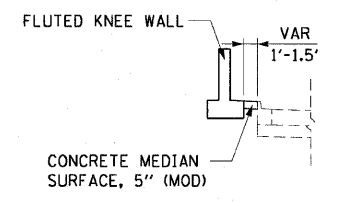


EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.



DETAIL A
STA 110+38.50 TO STA 111+25.00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
**EXISTING AND PROPOSED ROADWAY PLANS
WENTWORTH AVENUE**

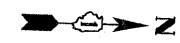
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DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG




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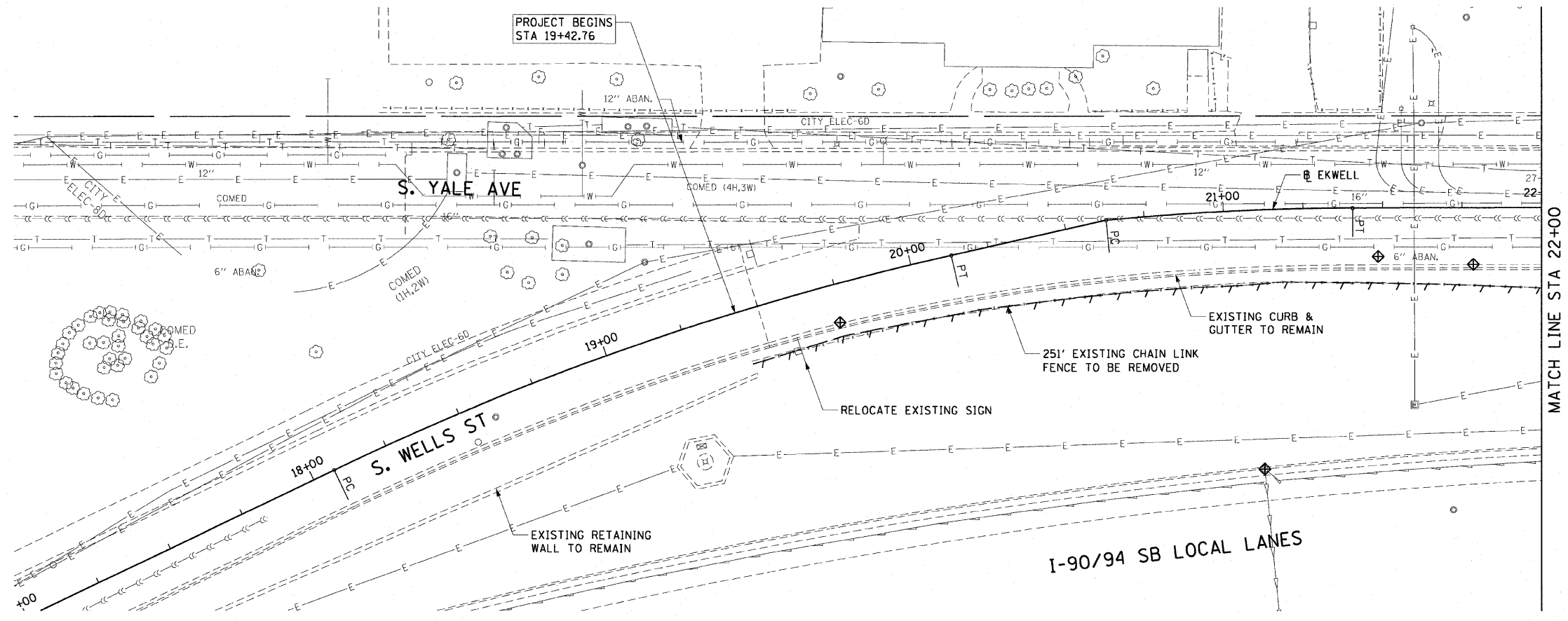
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	16
STA. 19+42.76		TO STA. 22+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1919.15 & 2021-922 PT) 1				62985

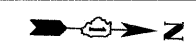


LEGEND:

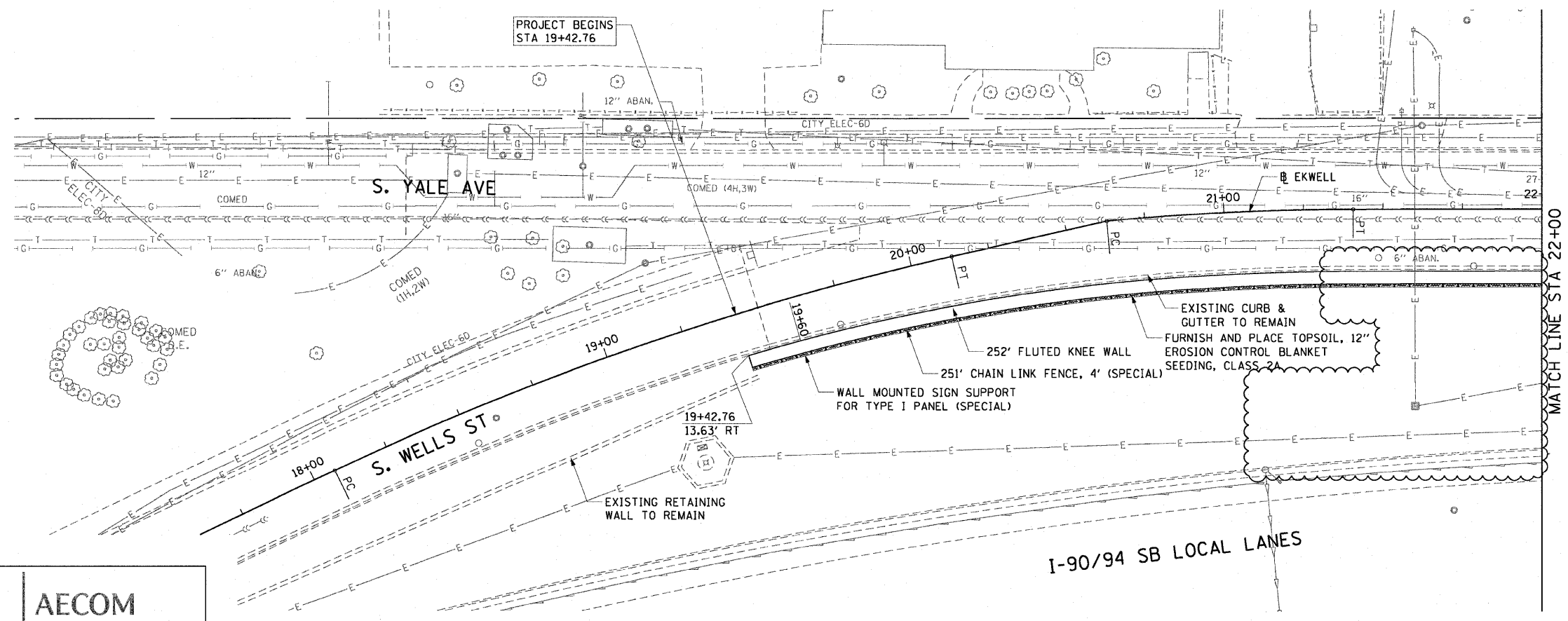
-  AREA REMOVALS
-  LINEAR REMOVALS
-  INLET FILTER



EXISTING CONDITIONS AND REMOVAL



PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.
4. SEE ROADWAY DETAILS FOR WALL MOUNTED SIGN SUPPORT DETAILS.

REVISIONS	
NAME	DATE
KNEEWALL CHANGE	5/19/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
**EXISTING AND PROPOSED ROADWAY PLANS
 WELLS STREET**

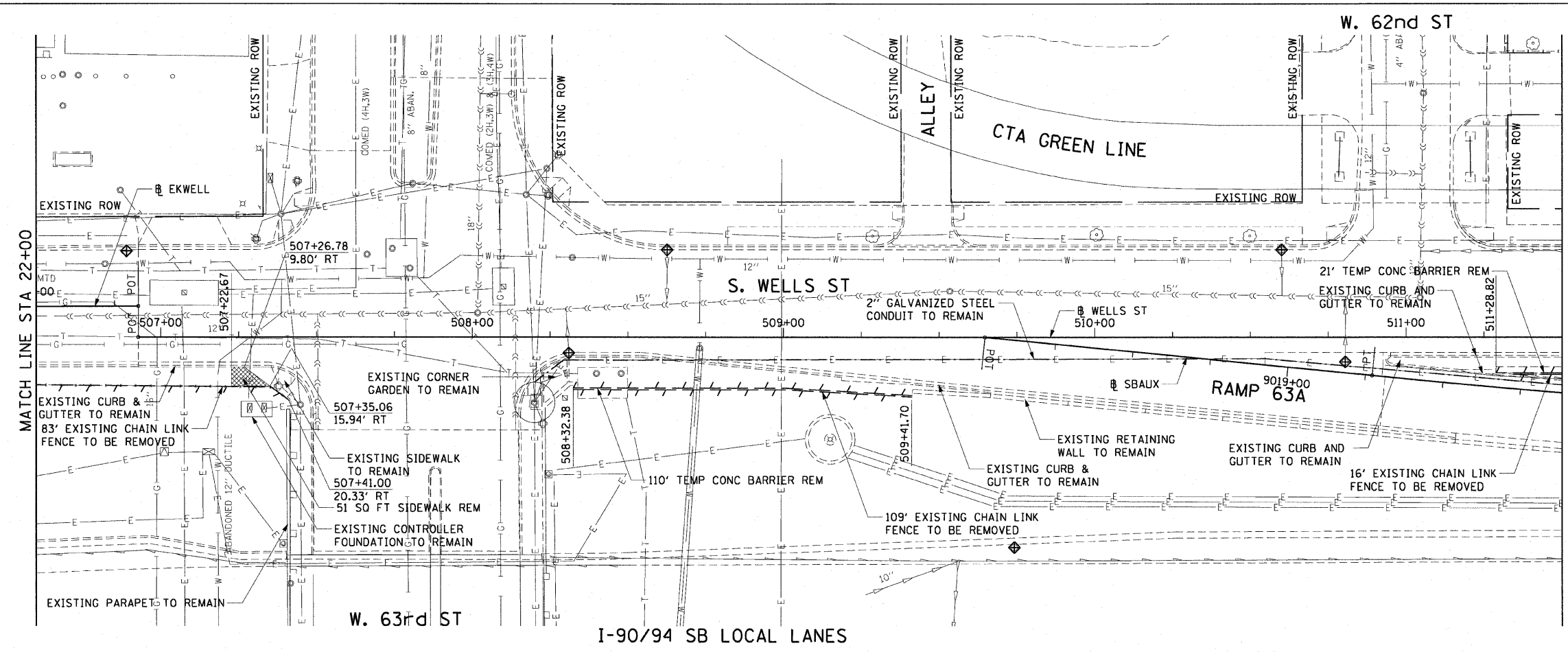
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 DATE: JANUARY 14, 2009

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 CHECKED BY: RMG

AECOM

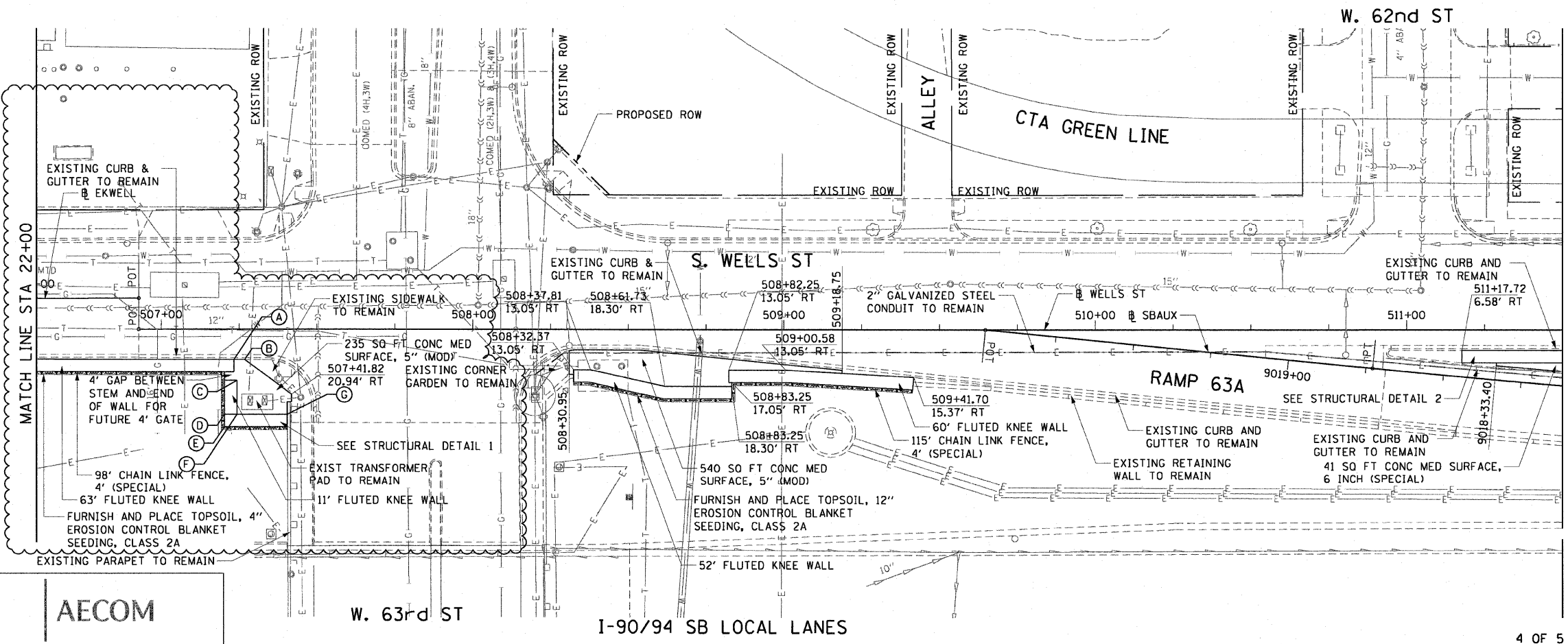
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	17
STA. 22+00		TO STA. 511+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
(1919.15 & 2021-922 PT1) I				62985



- LEGEND:**
- AREA REMOVALS
 - LINEAR REMOVALS
 - SIDEWALK REMOVAL
 - INLET FILTER

EXISTING CONDITIONS AND REMOVAL



PROPOSED IMPROVEMENTS

- NOTES:**
1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
 3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.
 4. SEE TABLE BELOW FOR POINT CALLOUT INFORMATION.

POINT CALLOUT INFORMATION

PT	STATION	OFFSET
(A)	204+23.30	9.80' RT
(B)	507+26.78	9.80' RT
(C)	507+24.30	16.55' RT
(D)	507+20.30	27.44' RT
(E)	507+20.30	31.44' RT
(F)	507+24.30	27.44' RT
(G)	507+40.43	27.44' RT

REVISIONS	
NAME	DATE
KNEEWALL CHANGE	5/19/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
**EXISTING AND PROPOSED ROADWAY PLANS
 WELLS STREET**




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

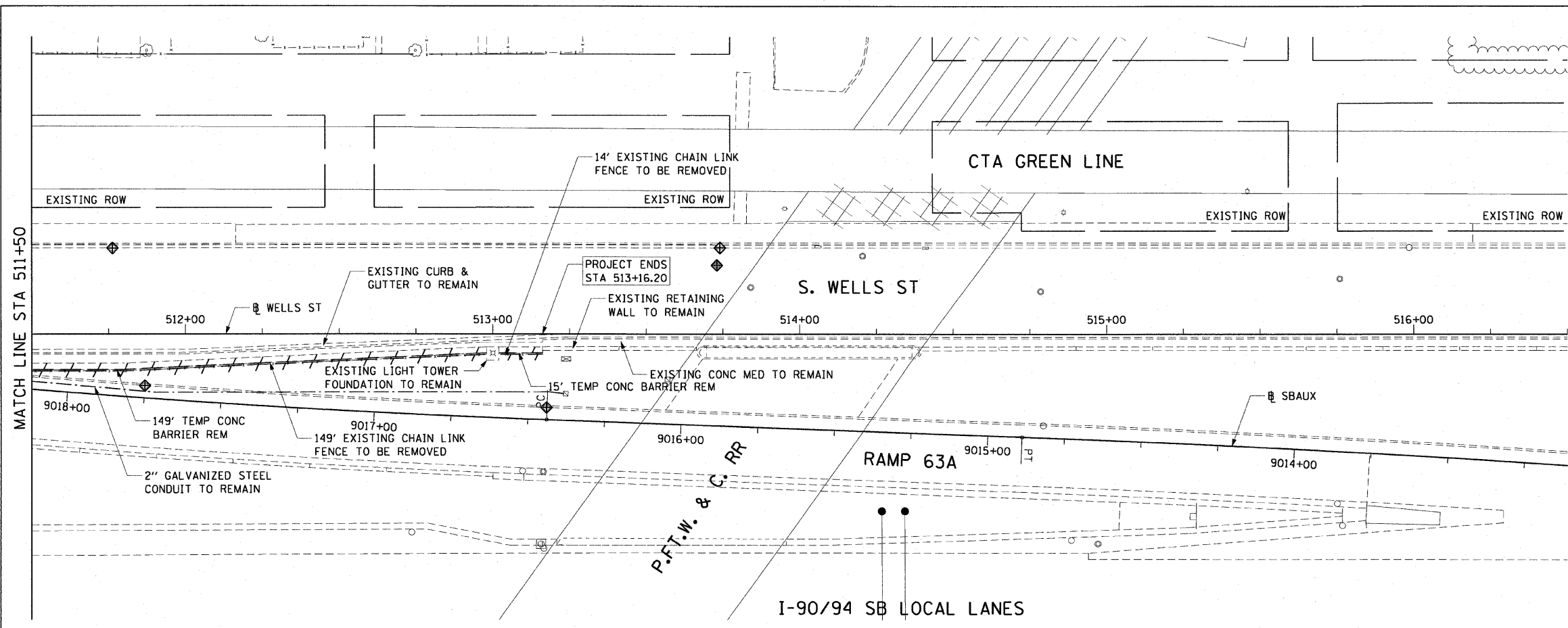
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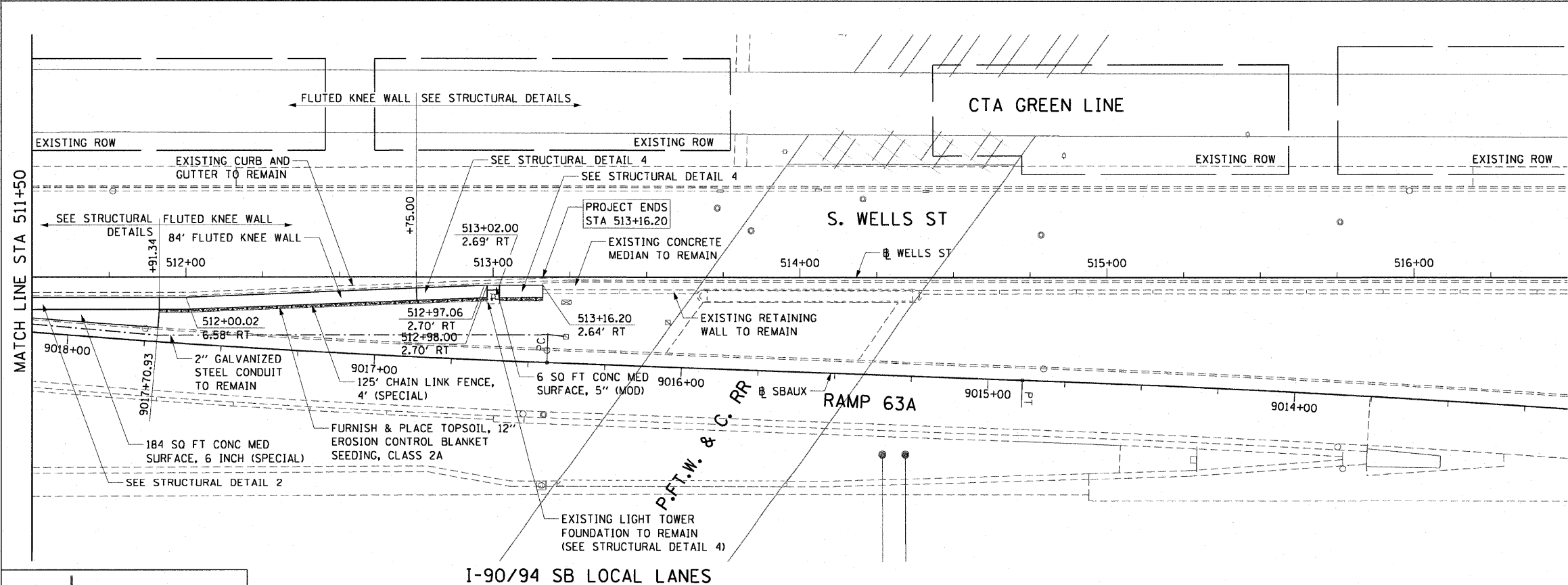
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	18
STA. 511+50		TO STA. 513+16.20		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1919.15 & 2021-922 PT) 1				62985

LEGEND:

-  AREA REMOVALS
-  LINEAR REMOVALS
-  INLET FILTER



EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS
WELLS STREET

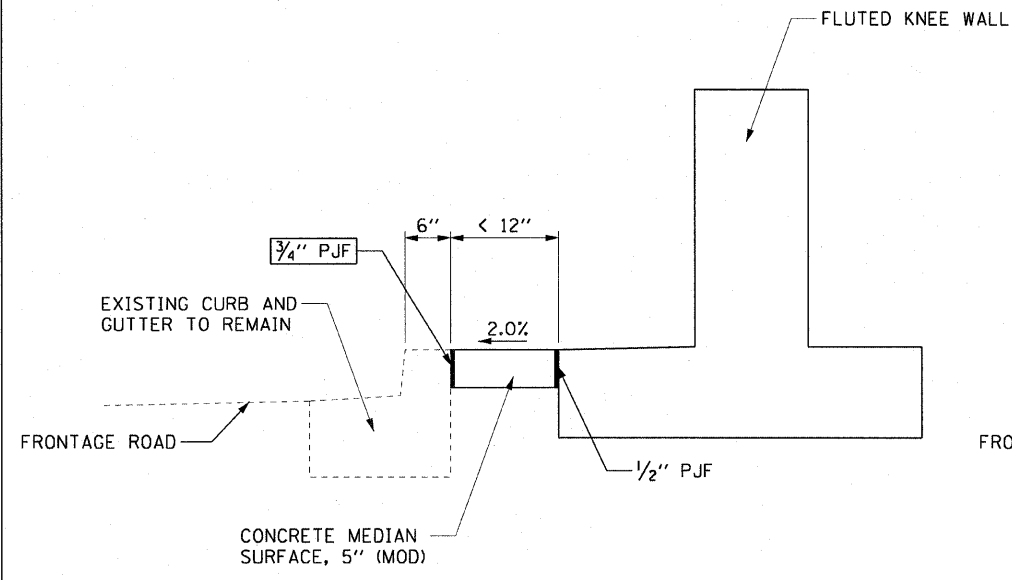
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DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG

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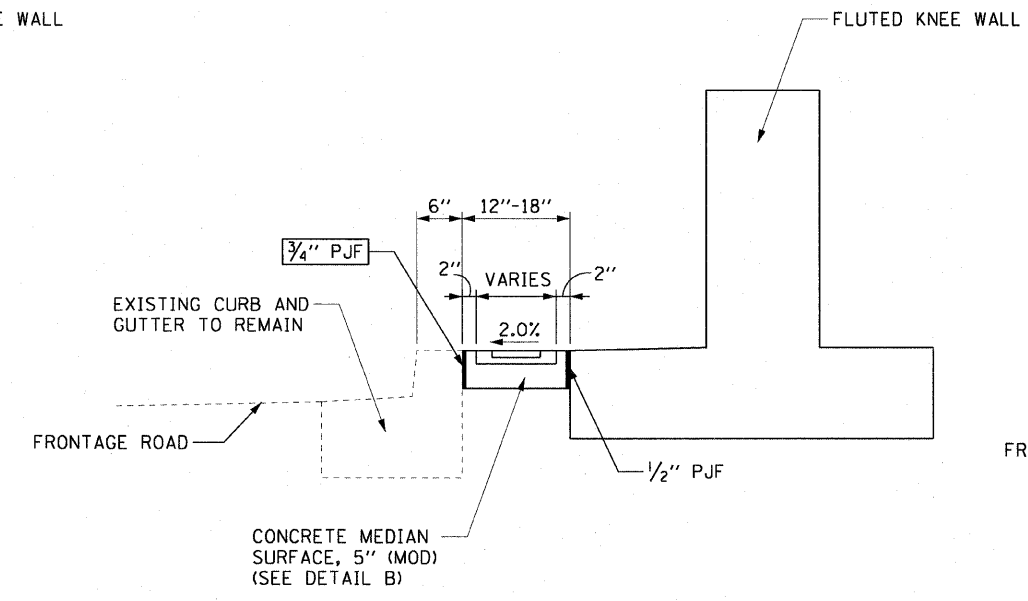
V:\scott\p207\p40468\p40468\civil\26-knee-wall_fence\st\contract 26\p207260520.stn 1/14/2009 11:44:45 AM

THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES < 12" IN WIDTH



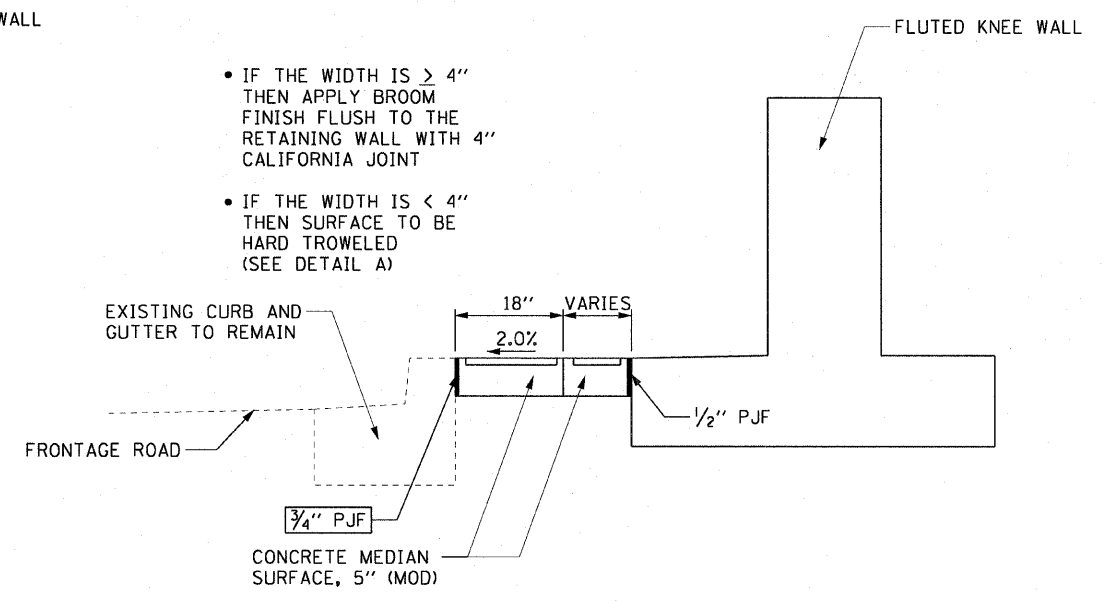
CARRIAGE WALK
AREA < 12" WIDE

THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES 12" TO 18" IN WIDTH



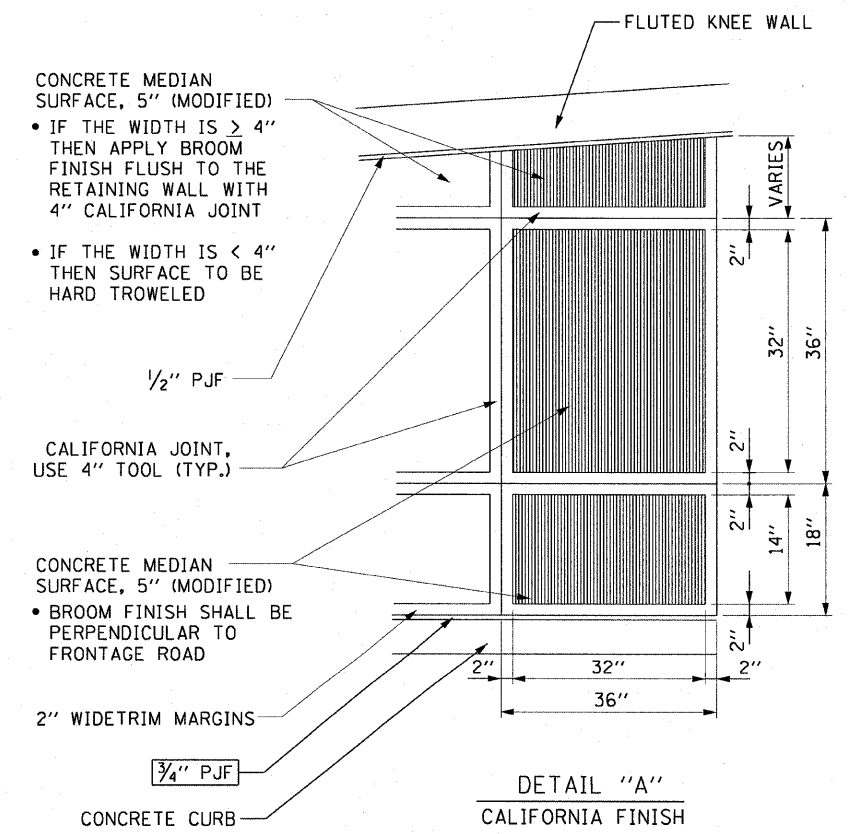
CARRIAGE WALK
AREA 12" TO 18" WIDE

THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES > 18" IN WIDTH



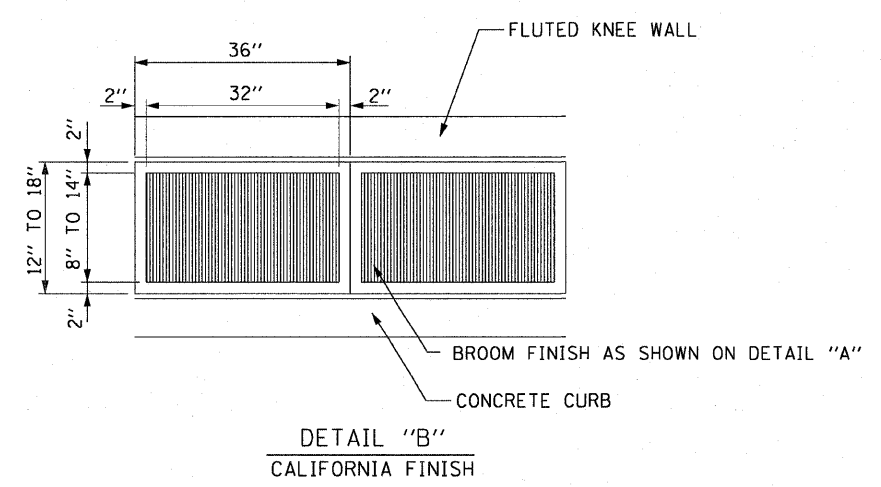
CARRIAGE WALK
AREA > 18" WIDE

- IF THE WIDTH IS $\geq 4"$ THEN APPLY BROOM FINISH FLUSH TO THE RETAINING WALL WITH 4" CALIFORNIA JOINT
- IF THE WIDTH IS $< 4"$ THEN SURFACE TO BE HARD TROWELED (SEE DETAIL A)



DETAIL "A"
CALIFORNIA FINISH

NOTES:
3/4" PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE MEDIAN SURFACE, 5" (MODIFIED).



DETAIL "B"
CALIFORNIA FINISH

AECOM

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
ROADWAY DETAILS
CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
CARRIAGE WALK AND CALIFORNIA FINISH DETAIL

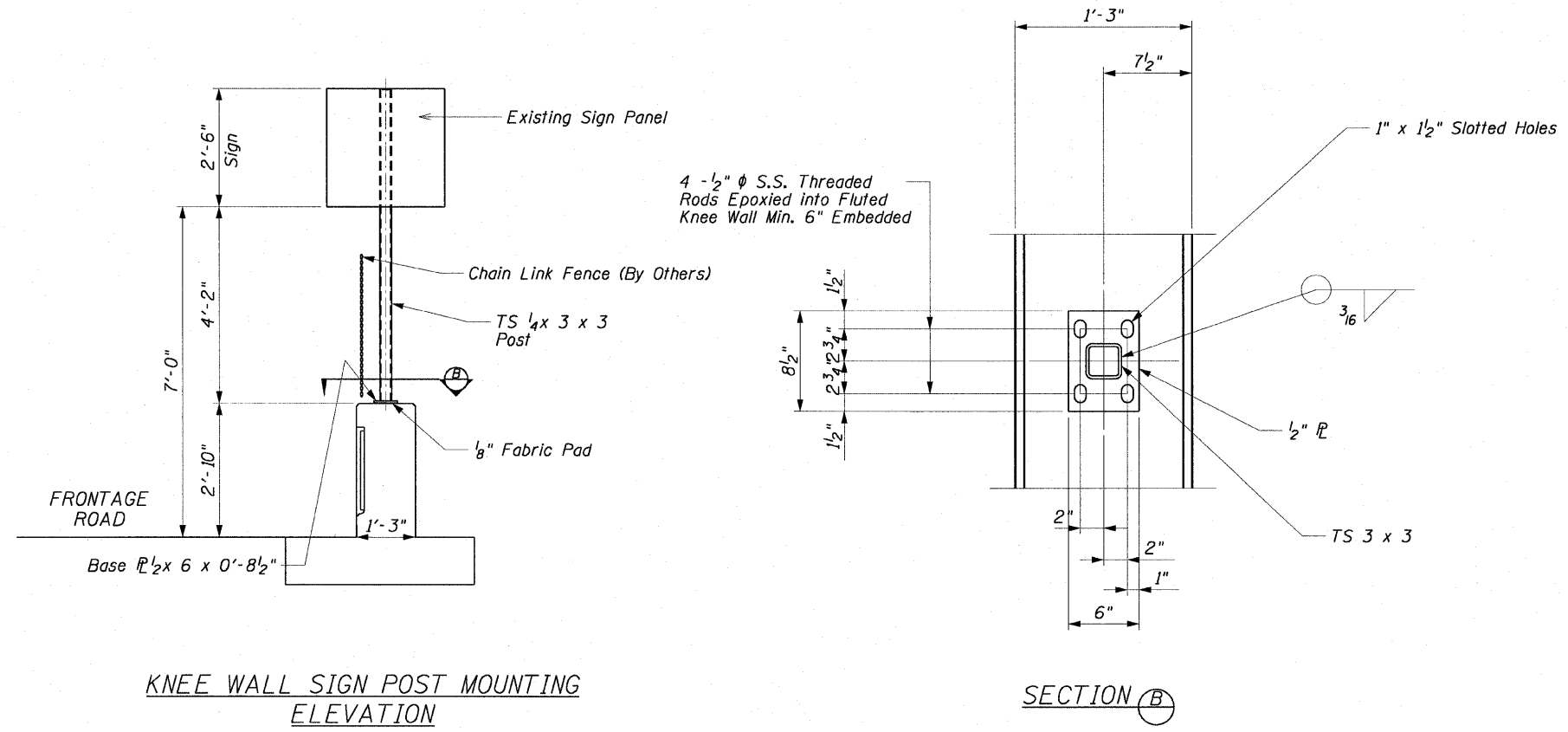
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DATE: JANUARY 14, 2009

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	31	20
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
• (1919.15 & 2021-922 PT1) 1		62985		

WALL MOUNTED SIGN SUPPORT FOR TYPE 1 PANEL (SPECIAL) DETAILS



KNEE WALL SIGN POST MOUNTING ELEVATION

SECTION B

NOTE

When drilling and epoxy grouting the anchor rods, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by IDOT. 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 shall be sealed with pre-measured amounts of the adhesive chemical. This associated materials and work performed shall be included in the cost of Wall Mounted Sign Support for Type 1 Panel (Special).

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

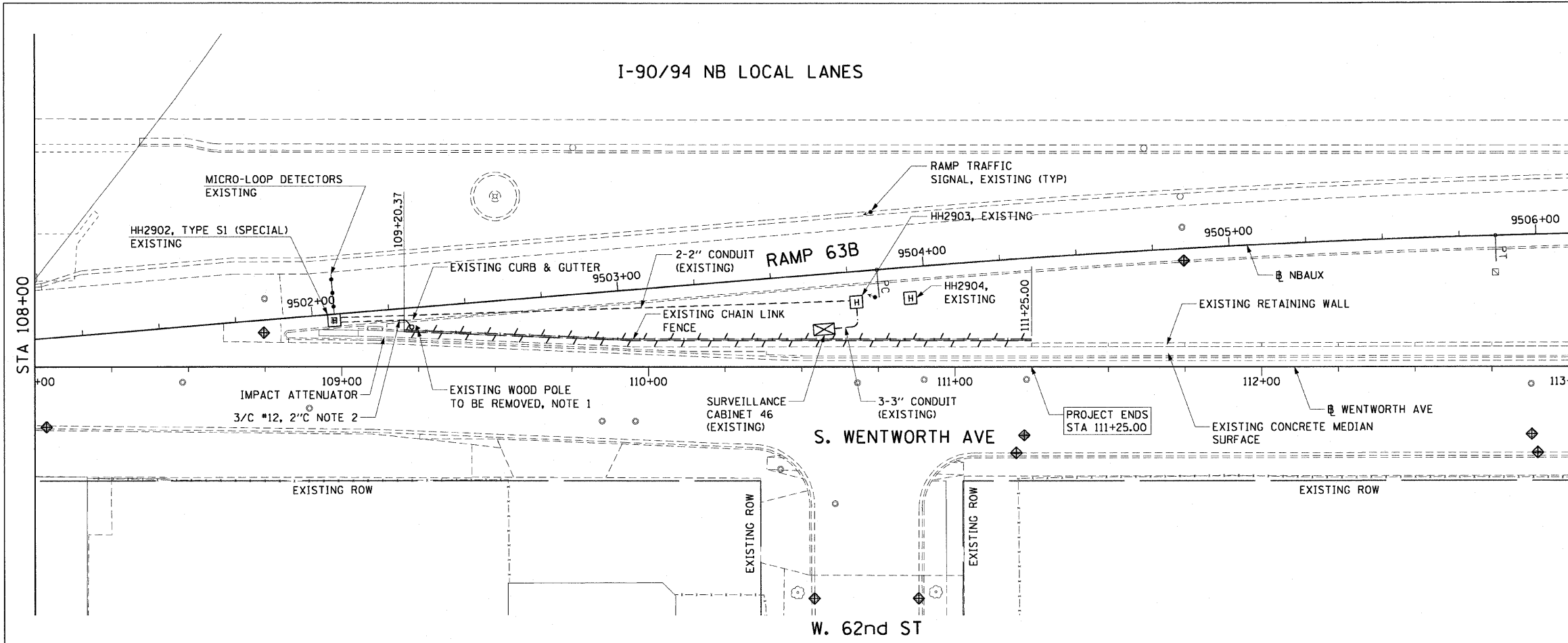
ROADWAY DETAILS
 WALL MOUNTED SIGN SUPPORT
 FOR TYPE 1 PANEL (SPECIAL) DETAILS

SCALE: NONE
 DATE: JANUARY 14, 2009

DRAWN BY: DS
 CHECKED BY: SWANG

\\usscgitf\p207\y40465\y40468\civil\28\knee_wall_fence\st\contract\28\m28022\stf

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	21
STA. 108+00		TO STA. 111+25.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1919.15 & 2021-922 PT) 1				62985

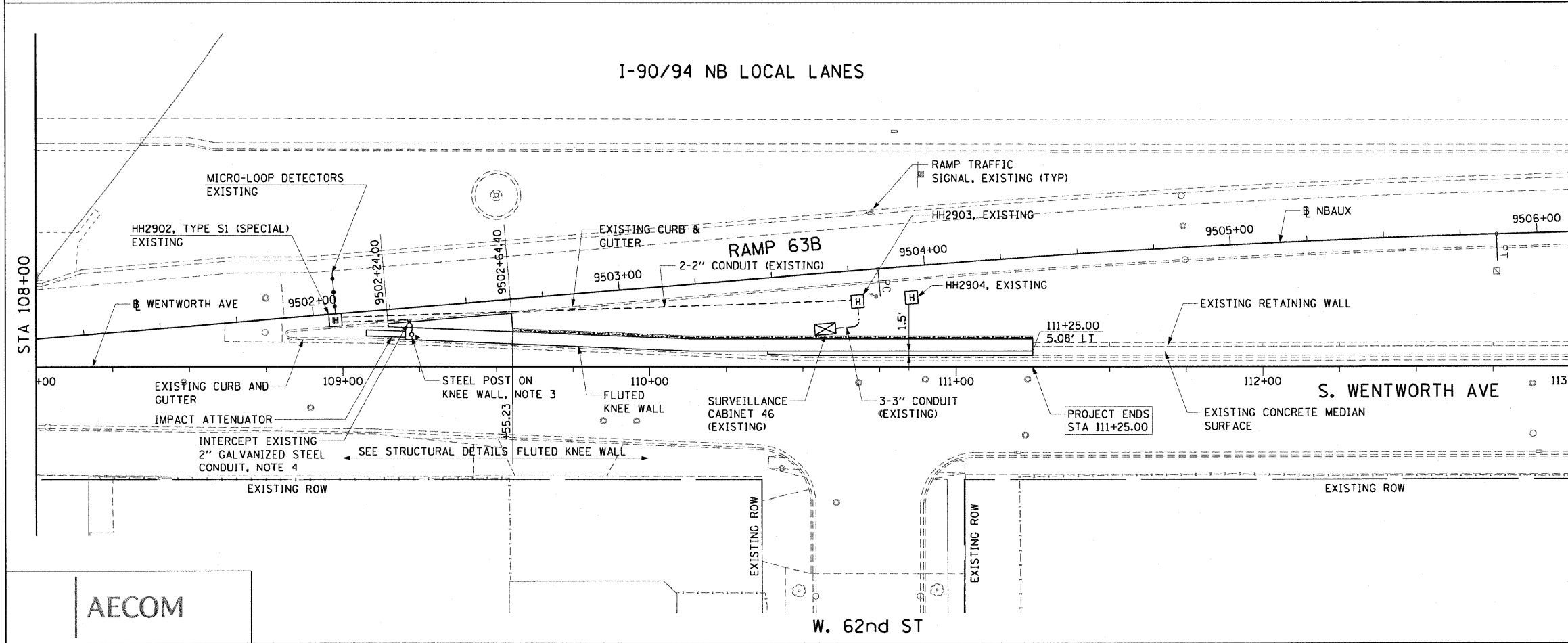


NOTES:

- EXISTING WOOD POST TO BE REMOVED. EXISTING FLASHING BEACONS AND WARNING SIGN TO BE REMOVED FROM WOOD POST AND BE INSTALLED ON NEW STEEL POLE.
- EXISTING 3/C #12 TO BE PULLED BACK TO EXISTING SURVEILLANCE CABINET 46 AND REMOVED.

EXISTING CONDITIONS AND REMOVAL

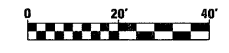
PROPOSED IMPROVEMENTS



NOTES:

- NEW STEEL POLE TO BE INSTALLED AT END OF NEW KNEE WALL. EXISTING FLASHING BEACONS AND WARNING SIGN REMOVED FROM WOOD POST ARE TO BE INSTALLED ON NEW STEEL POLE. SEE DRAWING DT-35A FOR DETAILS.
- EXISTING 2" GSC TO BE REROUTED TO NEW STEEL POLE BASE ON TOP OF NEW KNEE WALL. NEW 2" GSC CONDUIT TO BE INSTALLED AS NEEDED TO FACILITATE CONNECTION BETWEEN NEW POLE AND HANDHOLE HH2902. NEW 3/C #12 CABLE TO BE INSTALLED AND CONNECTED BETWEEN BEACONS AND EXISTING CABINET 46. SEE STRUCTURAL DETAILS AND DRAWING DT-35A FOR CONDUIT DETAILS.

FOR INFORMATION ONLY
ALL ELECTRICAL WORK SHOWN ON THIS SHEET WILL BE DONE BY MEADE ELECTRIC UNDER CONTRACT 62583.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

ELECTRICAL PLAN

SCALE: 1"=20'
DATE: JANUARY 14, 2009

DRAWN BY: HR
CHECKED BY: JPC

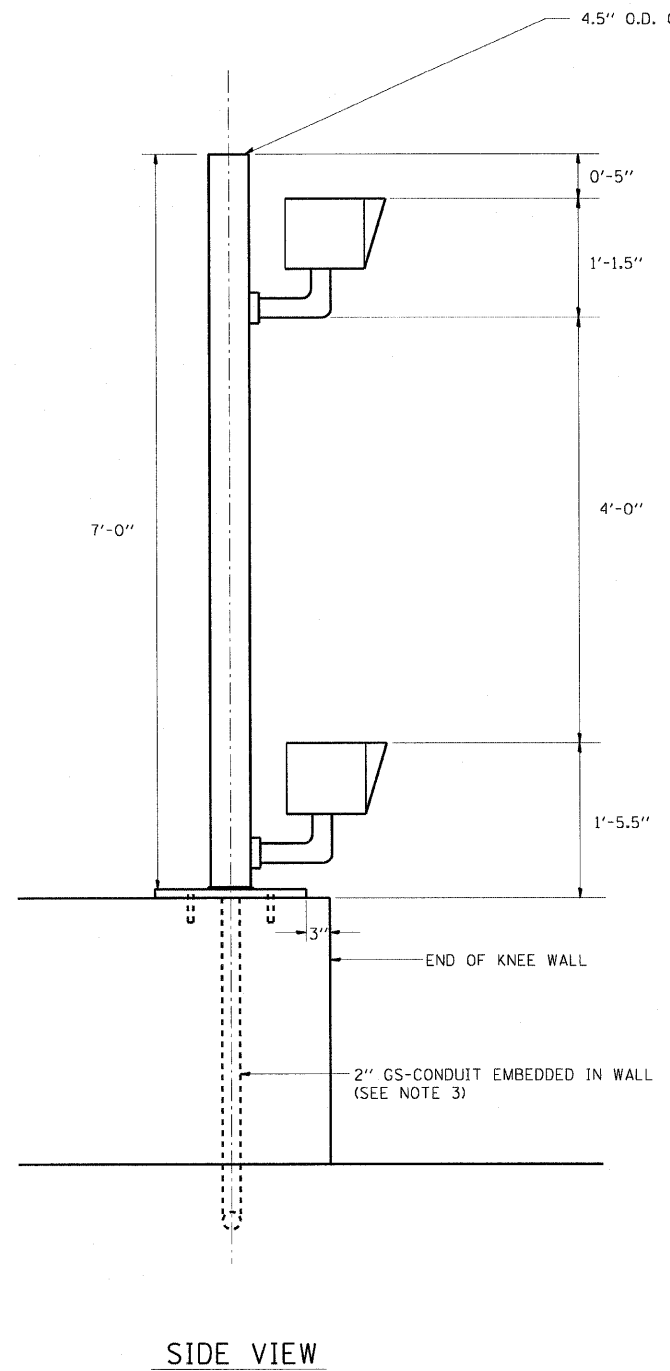
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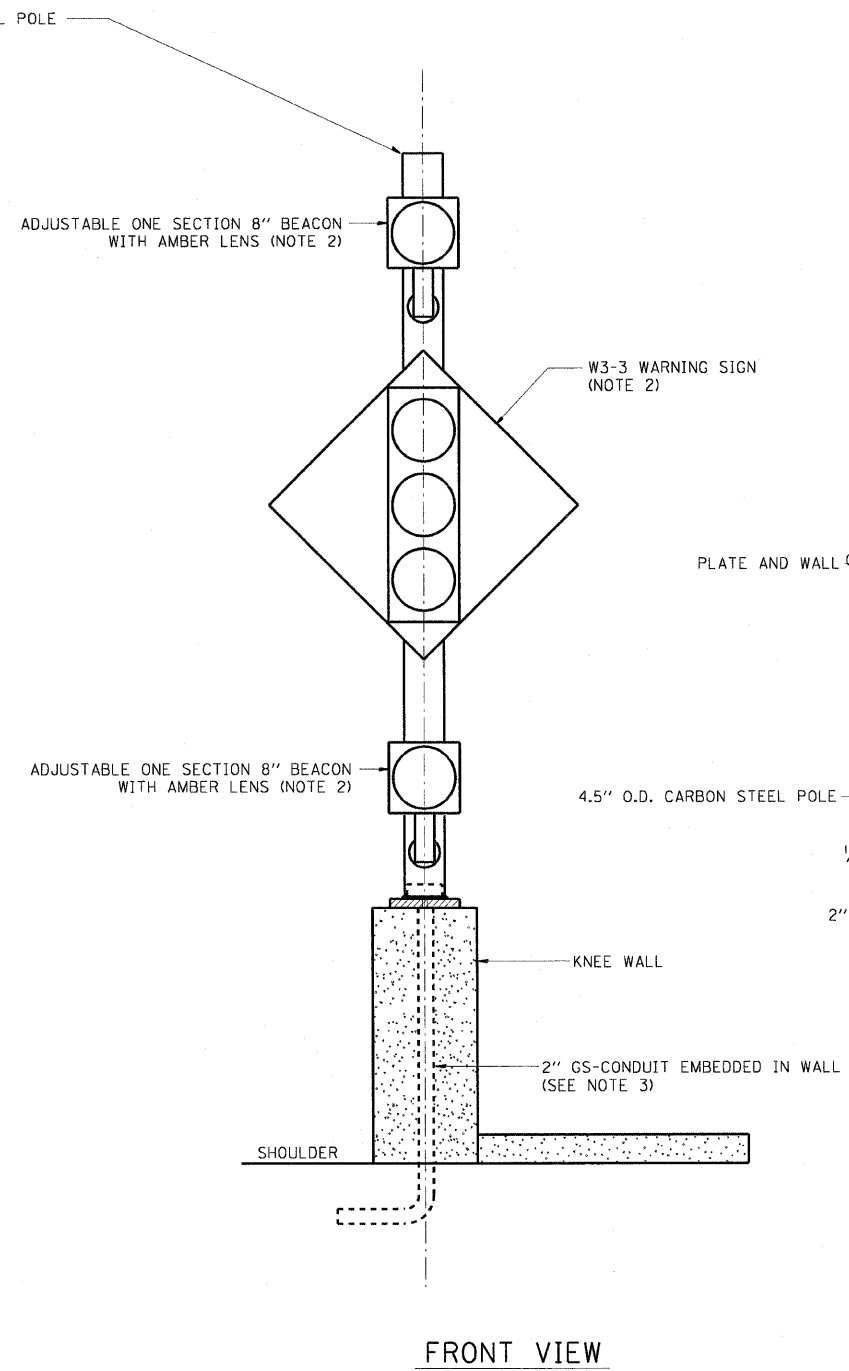
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
(1919.15 & 2021-922 PT) 1		62985		

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. (WORK BY MEADE ELECTRIC IN CONTRACT 62583).
3. COORDINATE INSTALLATION OF CONDUIT IN WALL WITH CONTRACT 62583.

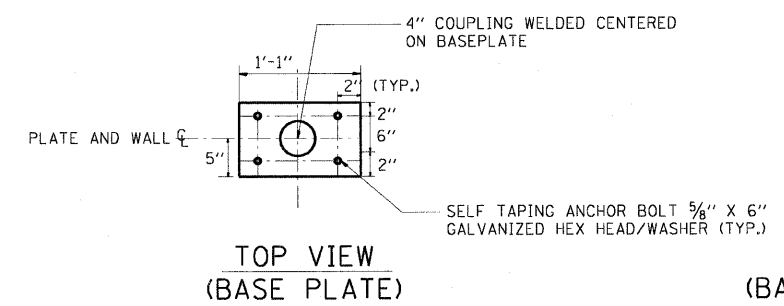


SIDE VIEW

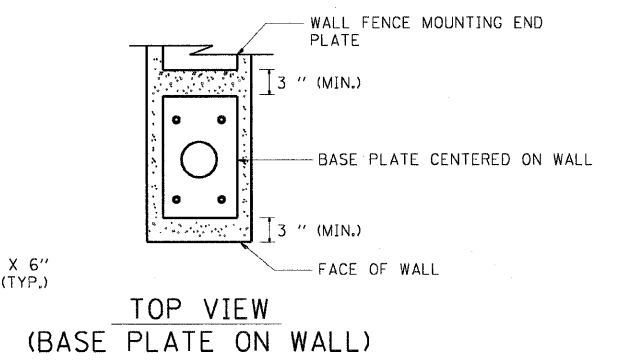


FRONT VIEW

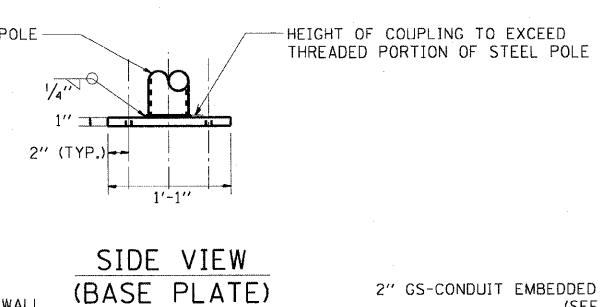
FLASHER POST ON KNEE WALL



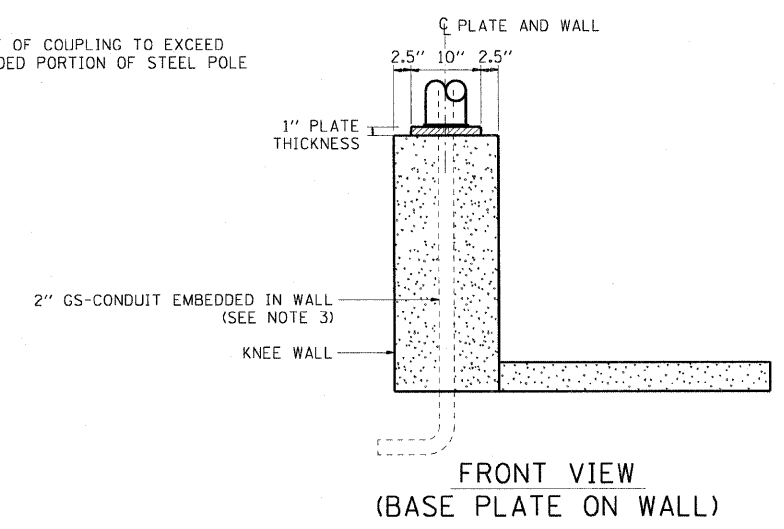
TOP VIEW (BASE PLATE)



TOP VIEW (BASE PLATE ON WALL)



SIDE VIEW (BASE PLATE)



FRONT VIEW (BASE PLATE ON WALL)

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)

RAMP METER FLASHER ON KNEE WALL DETAIL

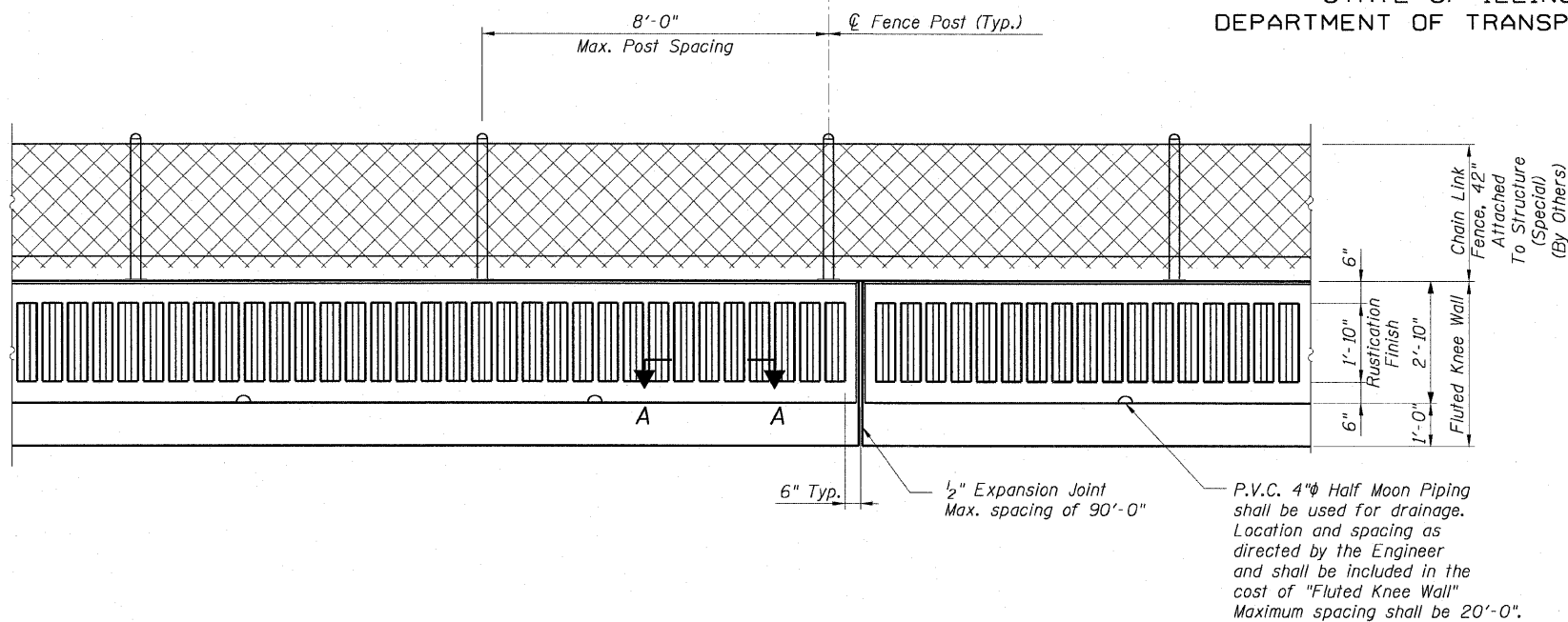
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DATE: JANUARY 14, 2009
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CHECKED BY: JPC

DT-35A

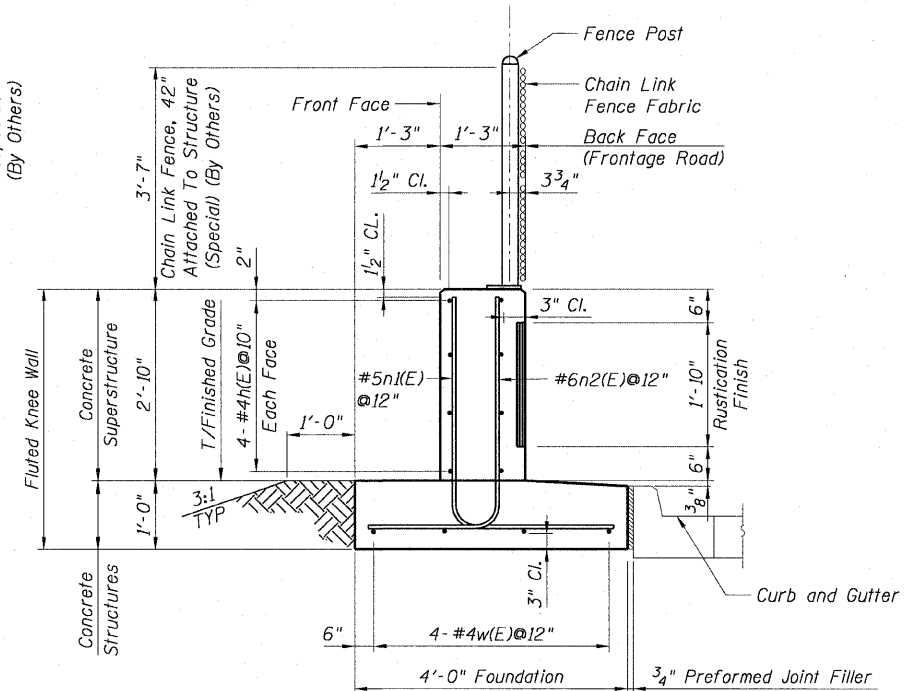
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 23
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		• (1919.15 & 2021-922 PT) 1		
				62985



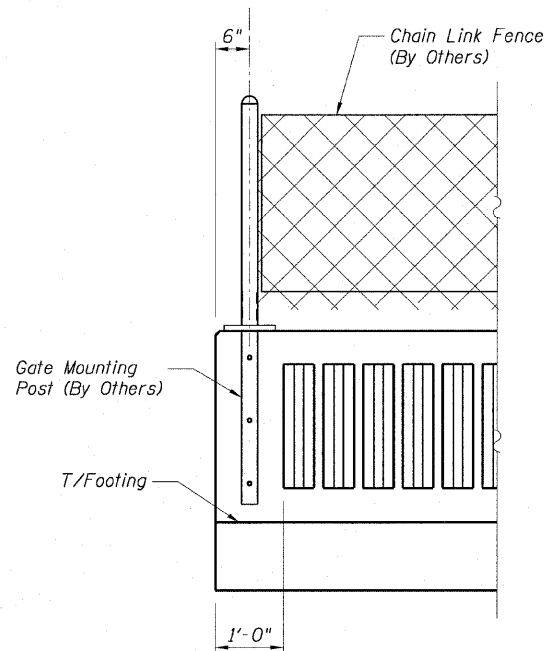
BACK FACE ELEVATION - FLUTED KNEE WALL AND CHAIN LINK FENCE



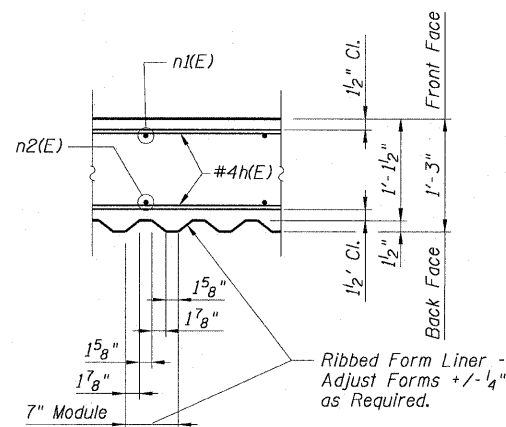
TYPICAL SECTION
FLUTED KNEE WALL

NOTES:

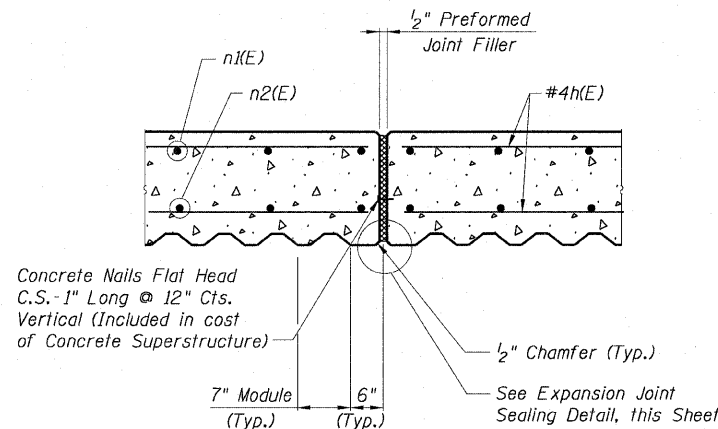
1. Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
2. Concrete: $f'c = 3500$ psi
3. Fluted knee wall shall be paid for per foot as "Fluted Knee Wall." Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" (stem), "Concrete Structures" (foundation), reinforcement bars (epoxy coated), rustication finish for fluted knee walls, protective coat, expansion joint filler and sealing compound.
4. At locations where Fluted Knee Wall abuts a rigid structure, a 1/2" thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. 3/4" PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
5. Quantities shown in "Bill of Material" are for one (1) foot of "Fluted Knee Wall".
6. Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 63003.
7. Unless noted otherwise, Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall.
8. Minimum lap length for #4 bars shall be 1'-8".



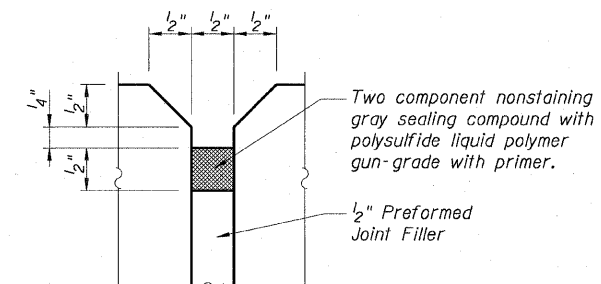
RUSTICATION DETAILS
AT GATE LOCATIONS



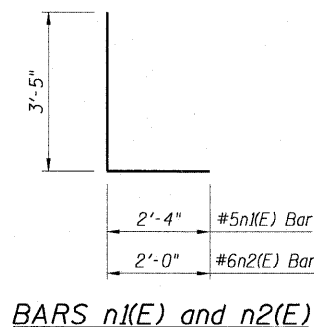
SECTION A-A



EXPANSION JOINT DETAIL



EXPANSION JOINT
SEALING DETAIL



BARS $n_1(E)$ and $n_2(E)$

QUANTITIES PER FOOT OF FLUTED KNEE WALL		
ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Pound	23
Concrete Superstructure	Cu. Yd.	0.14
Concrete Structures	Cu. Yd.	0.15
Rustication Finish	Sq. Ft.	1.8
Protective Coat	Sq. Yd.	0.62

REVISIONS	
NAME	DATE

LEGEND:

- Chain Link Fabric
- Rustication Finish
- Earth
- Concrete

AECOM

Sheet S1 of 5
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
FLUTED KNEE WALL STANDARD DETAILS
SCALE: None
DATE: JANUARY 14, 2009
DRAWN BY: CHD
CHECKED BY: MJP

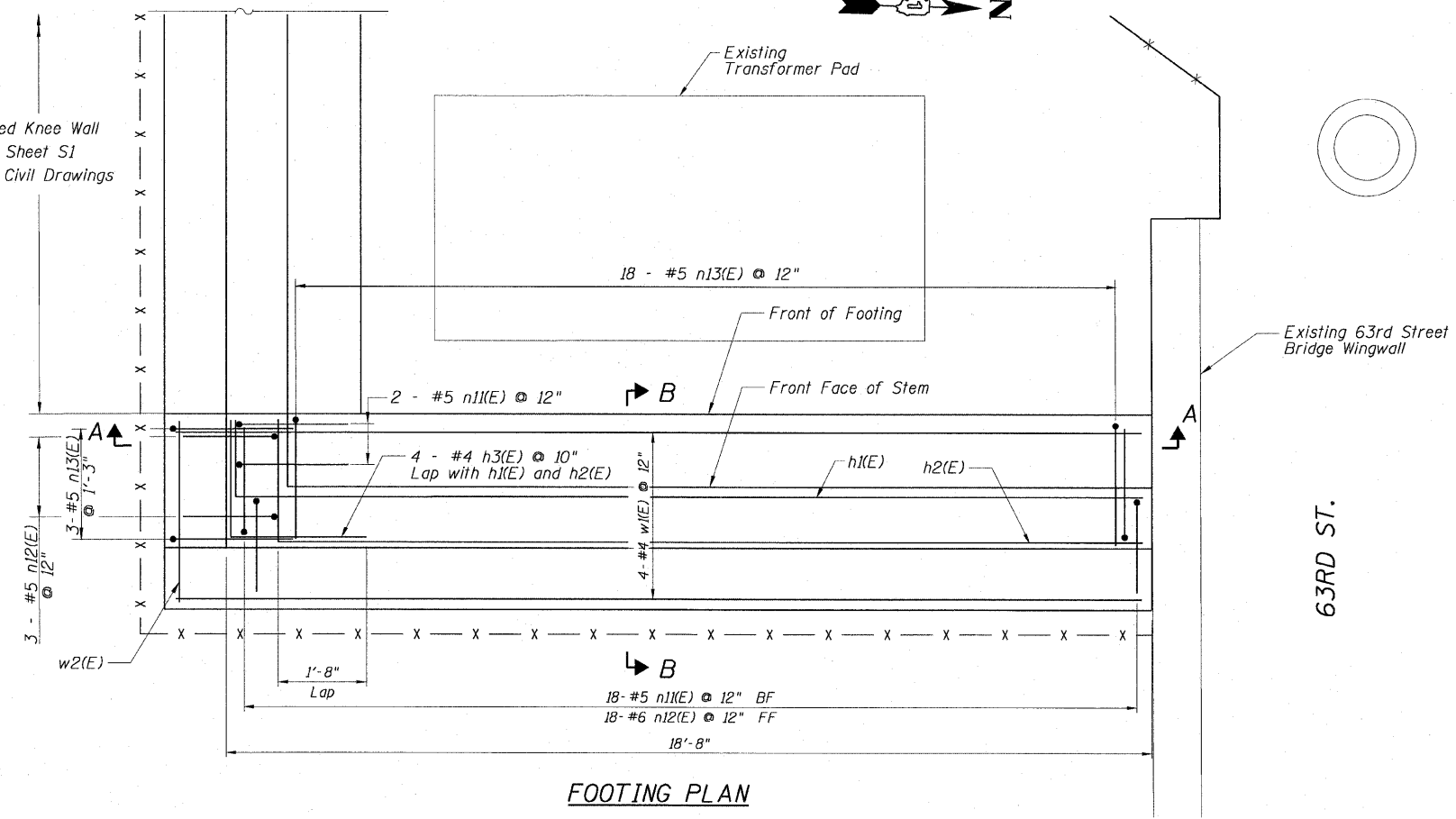
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	24
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
(1919.15 & 2021-922 PT1)			62985	

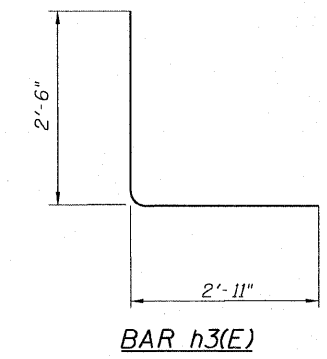
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	4	#4	19'-10"	┌
h2(E)	4	#4	19'-11"	┌
h3(E)	4	#4	5'-5"	┌
n1(E)	20	#5	7'-5"	┌
n12(E)	21	#6	7'-2"	┌
n13(E)	21	#5	7'-1"	┌
w1(E)	6	#4	19'-7"	┌
w2(E)	3	#4	3'-9"	┌
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	6.4	
Concrete Superstructure		Cu. Yd.	2.7	
Reinforcement Bars, Epoxy Coated		Pound	743	
Rustication Finish		Sq. Ft.	31	
Protective Coat		Sq. Ft.	105	

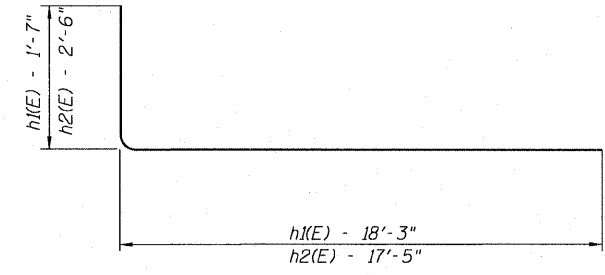
Fluted Knee Wall
See Sheet S1
and Civil Drawings



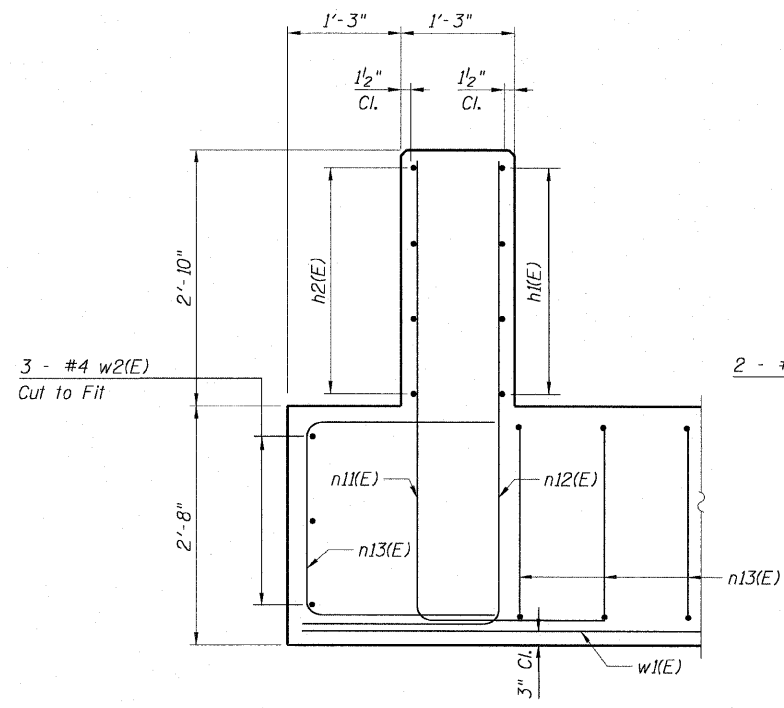
FOOTING PLAN



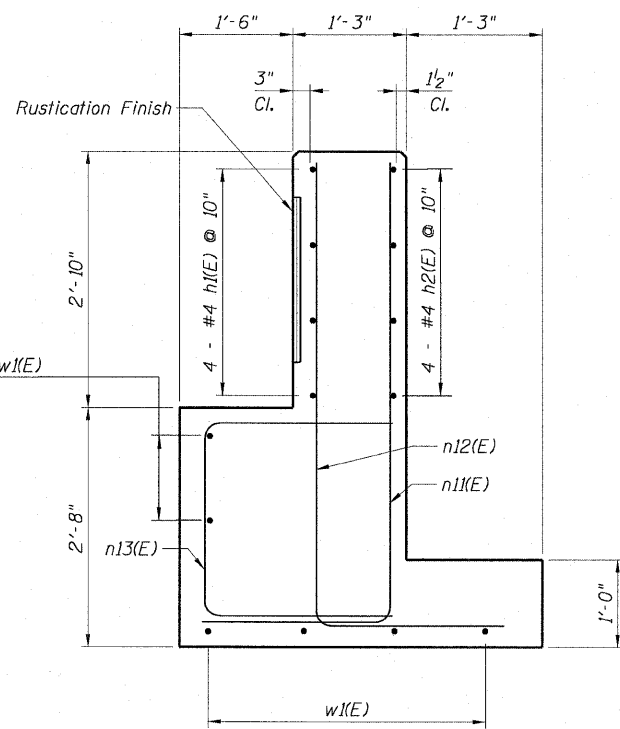
BAR h3(E)



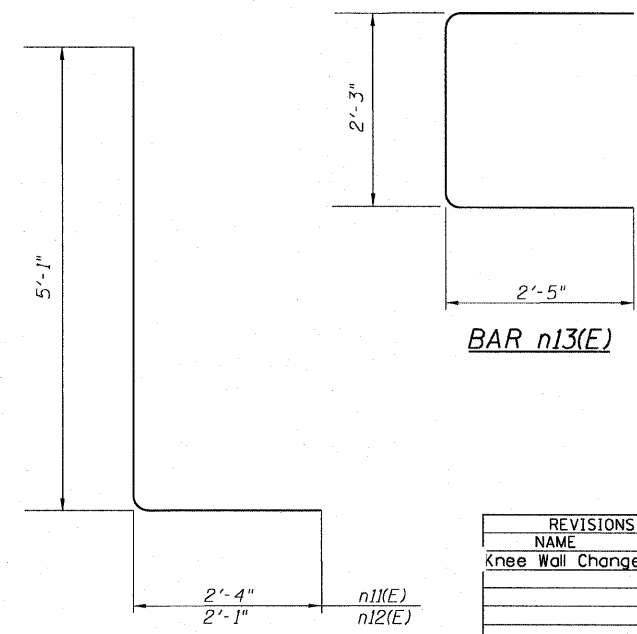
BARS h1(E) & h2(E)



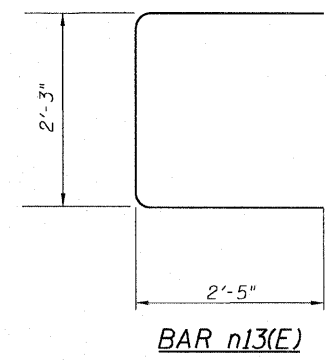
SECTION A-A



SECTION B-B



BARS n11(E) & n12(E)



BAR n13(E)

NOTES:

- For location of Fluted Knee Wall, see Civil Drawings.
- Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- Concrete: $f'_c = 3500$ psi
- At locations where Fluted Knee Wall abuts a rigid structure, a $\frac{1}{2}$ " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Concrete Structures".
- Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall.
- Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 63003.
- For Fluted Knee Wall standard details and per foot quantities, see Sheet S1.
- Minimum lap for #4 bars shall be 1'-8".
- BF = Back Face
EF = Each Face
FF = Front Face

Sheet S2 of 5

REVISIONS	
NAME	DATE
Knee Wall Change	5/19/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
STRUCTURAL DETAIL 1
63RD STREET WINGWALL INTERFACE DETAILS
STA. 507+41.82
WELLS STREET

SCALE: None
DATE: JANUARY 14, 2009

DRAWN BY: CHD/KWT
CHECKED BY: MJP

AECOM

P:\140466\Struct\28-Knee-Wall\Fence\Sheet S2 of 5.dwg 5/19/2009 1:31:27 PM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

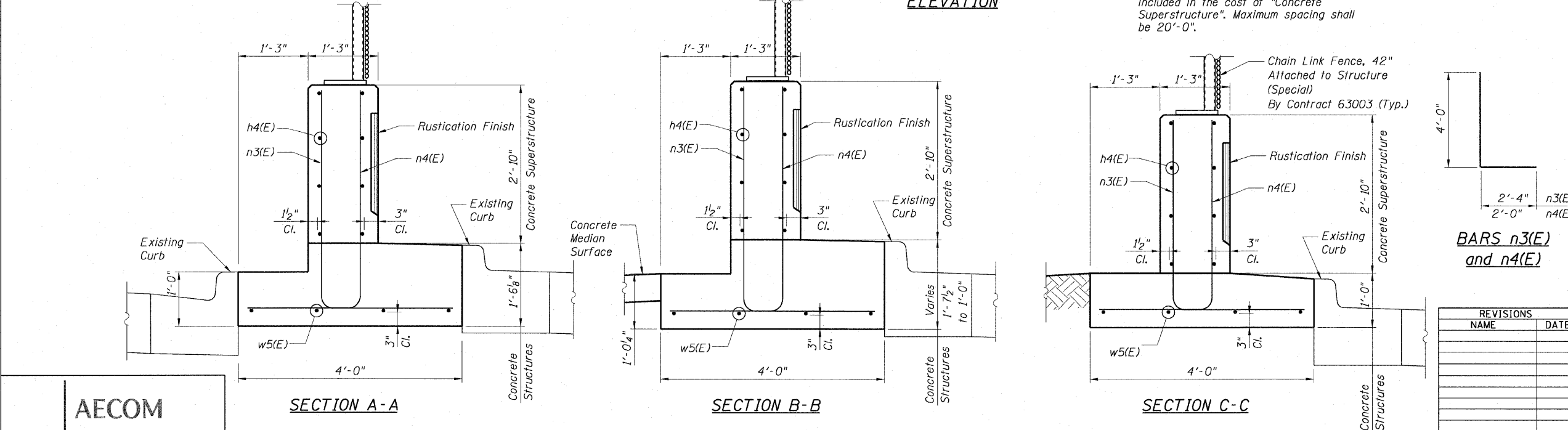
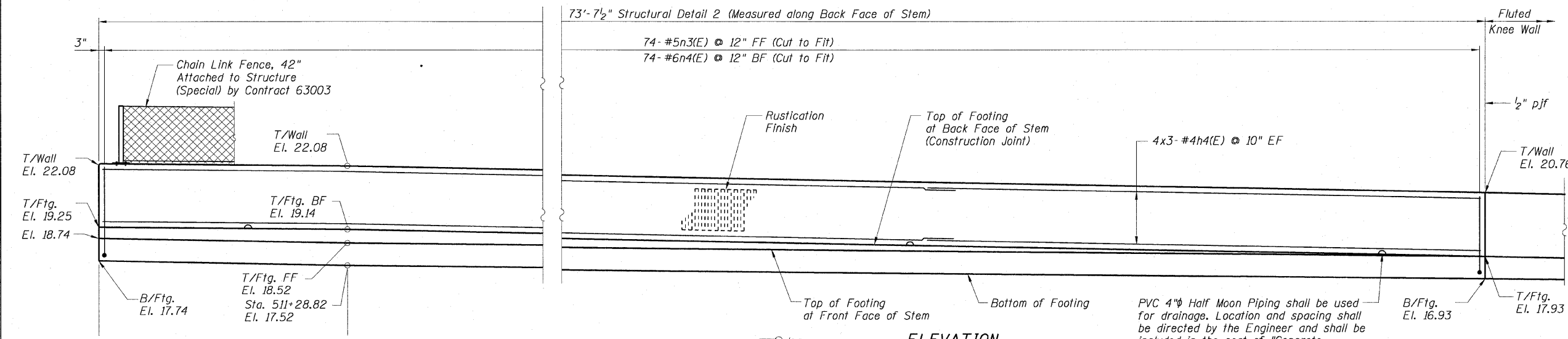
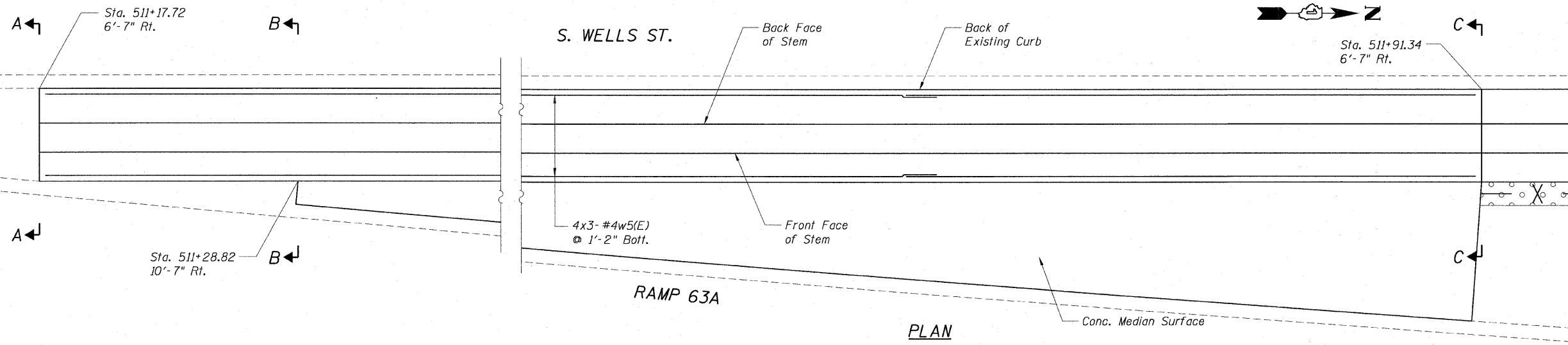
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	25
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
(1919.15 & 2021-922 PT1) I				62985

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	24	#4	25'-10"	—
n3(E)	74	#5	6'-4"	—
n4(E)	74	#6	6'-0"	—
w5(E)	12	#4	25'-10"	—
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	13.5		
Concrete Superstructure	Cu. Yd.	9.6		
Reinforcement Bars, Epoxy Coated	Pound	1777		
Rustication Finish	Sq. Ft.	133		
Protective Coat	Sq. Yd.	82		

NOTES:

- For location of Fluted Knee Wall, see Civil Drawings. Stations and offsets are measured from the @ S. Wells St. to the edge of the footing.
- Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- Concrete: $f'c = 3500$ psi
- At locations where Fluted Knee Wall abuts a rigid structure, a 1/2" thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. 3/4" PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Concrete Structures".
- A protective coat shall be applied according to Section 503.19 of the Standard Specifications to all concrete surfaces not in contact with soil for Structural Detail 2.
- Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 63003.
- For dimensions and details not shown in the sections, see Standard Knee Wall Details Sheet S1.
- Minimum lap for #4 bars shall be 1'-8".
- BF = Back Face
EF = Each Face
FF = Front Face



REVISIONS

NAME	DATE

Sheet S3 of 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
STRUCTURAL DETAIL 2
RAMP 63A GORE
STA. 511+17.72 TO STA. 511+91.34
WELLS STREET

SCALE: None
DATE: JANUARY 14, 2009

DRAWN BY: CHD
CHECKED BY: MJP

AECOM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

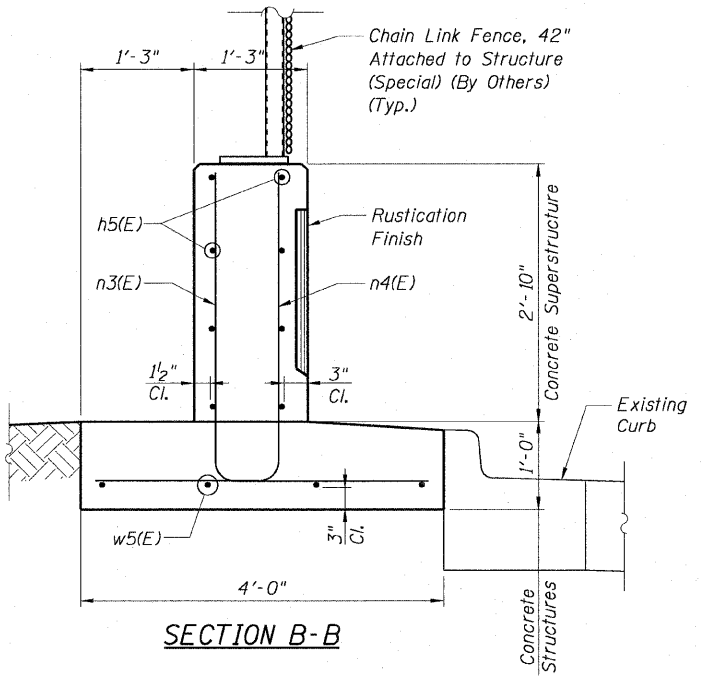
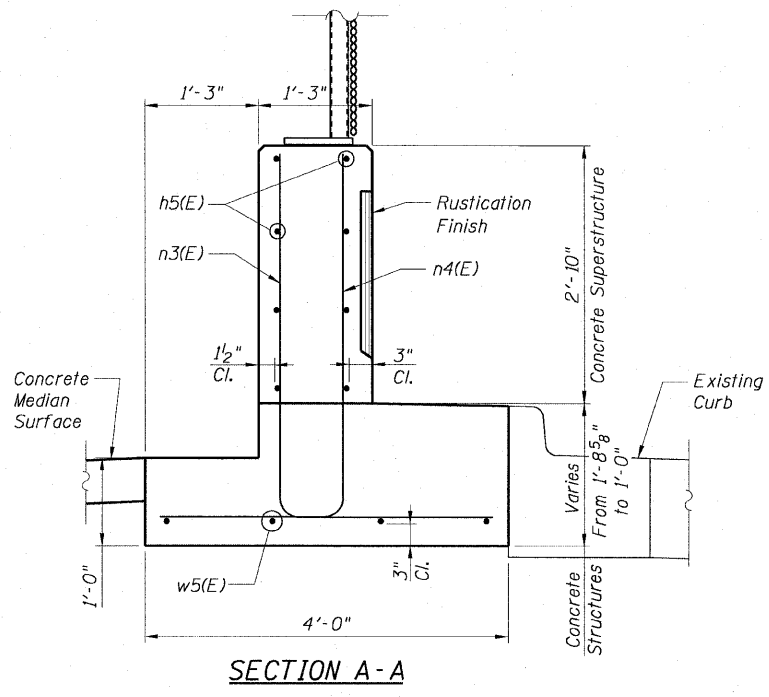
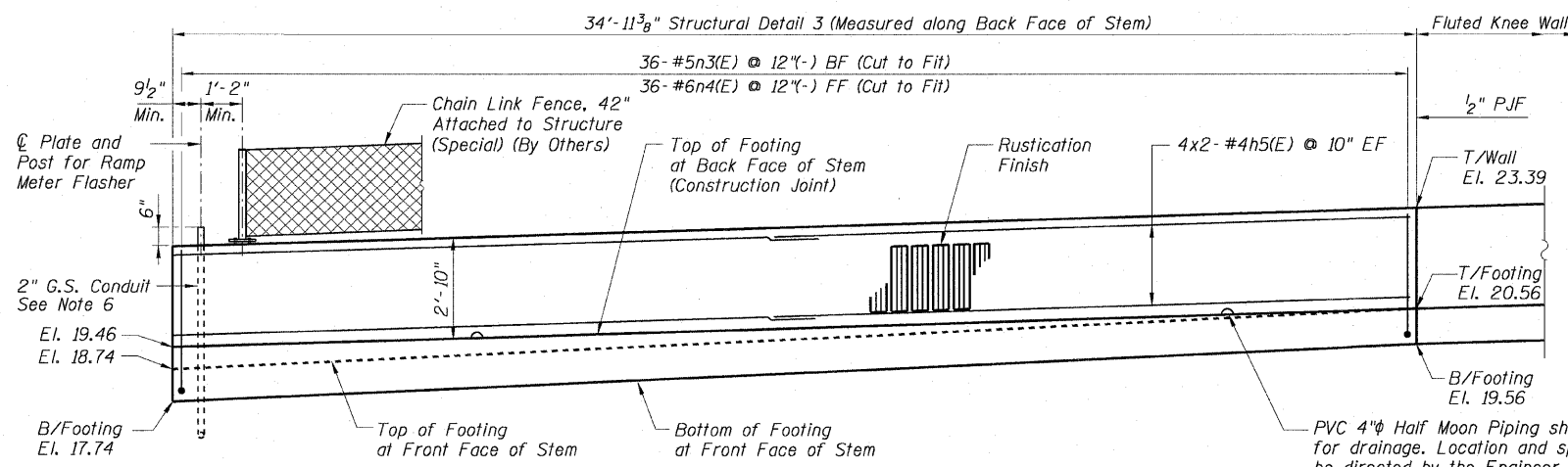
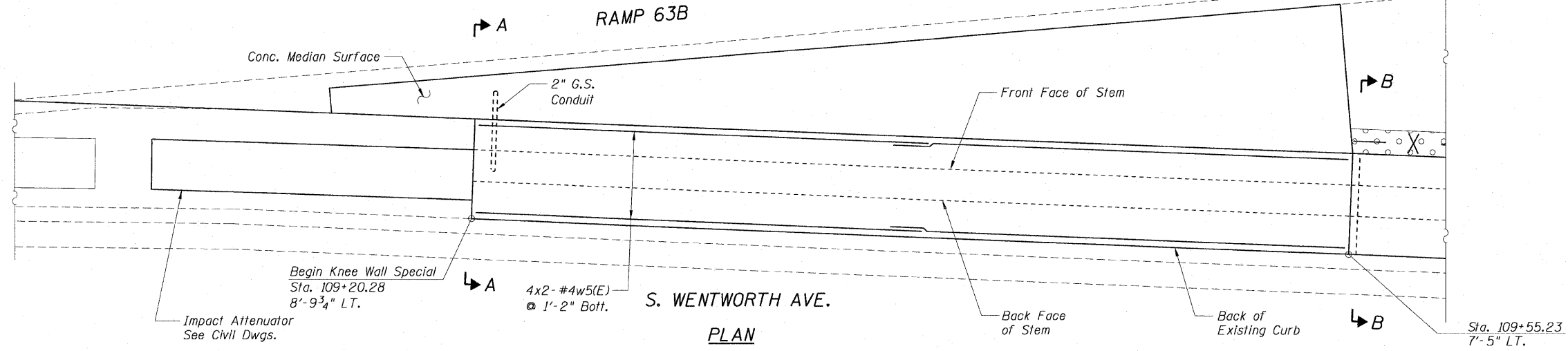
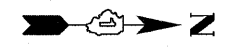
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	26
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
(1919.15 & 2021-922 PT1) 1		62985		

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	16	#4	18'-1"	—
n3(E)	36	#5	6'-4"	—
n4(E)	36	#6	6'-0"	—
w5(E)	8	#4	18'-1"	—
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	6.5		
Concrete Superstructure	Cu. Yd.	4.6		
Reinforcement Bars, Epoxy Coated	Pound	855		
Rustication Finish	Sq. Ft.	63		
Protective Coat	Sq. Yd.	39		

- NOTES:**
- For location of Fluted Knee Wall, see Civil Drawings. Stations and offsets are measured from the @ S. Wentworth Ave. to the edge of the footing.
 - Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
 - Concrete: $f'c = 3500$ psi
 - At locations where Fluted Knee Wall abuts a rigid structure, a_2 " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Concrete Structures".
 - A protective coat shall be applied according to Section 503.19 of the Standard Specifications to all concrete surfaces not in contact with soil for Structural Detail 3.
 - 2" G.S. Conduit shall connect to existing handhole in shoulder. See Electrical drawings for details.
 - Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 63003.
 - For dimensions and details not shown in the sections, see Standard Knee Wall Details Sheet S1.
 - For n3(E) and n4(E) bar details, see Sheet S3.
 - Minimum lap for #4 bars shall be 1'-8".
 - BF = Back Face
EF = Each Face
FF = Front Face

Sheet S4 of 5



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
STRUCTURAL DETAIL 3
RAMP 63B GORE
STA. 109+20.28 TO STA. 109+55.23
WENTWORTH AVENUE
SCALE: None DRAWN BY: CHD
DATE: JANUARY 14, 2009 CHECKED BY: MJP

AECOM

11:55:22 AM 1/13/2009 \\usctg\p207\p40468\p40468\struct\28-knee_wall_1_fence\struct\28-knee_wall_1_fence\contract\28-11280042\str

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

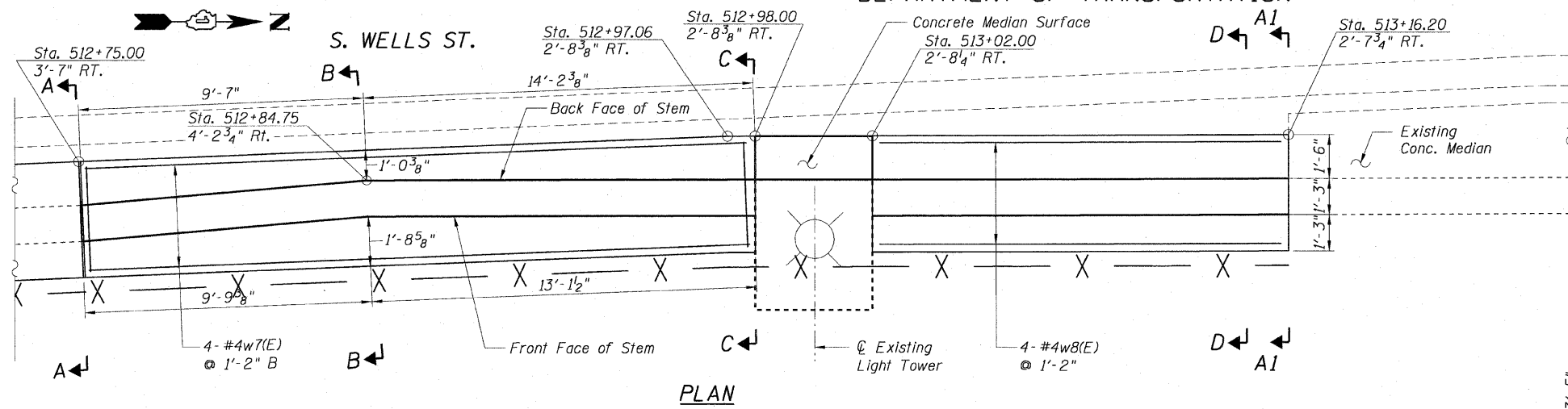
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	31	27
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1919.15 & 2021-922 PT) 1		62985		

NOTES:

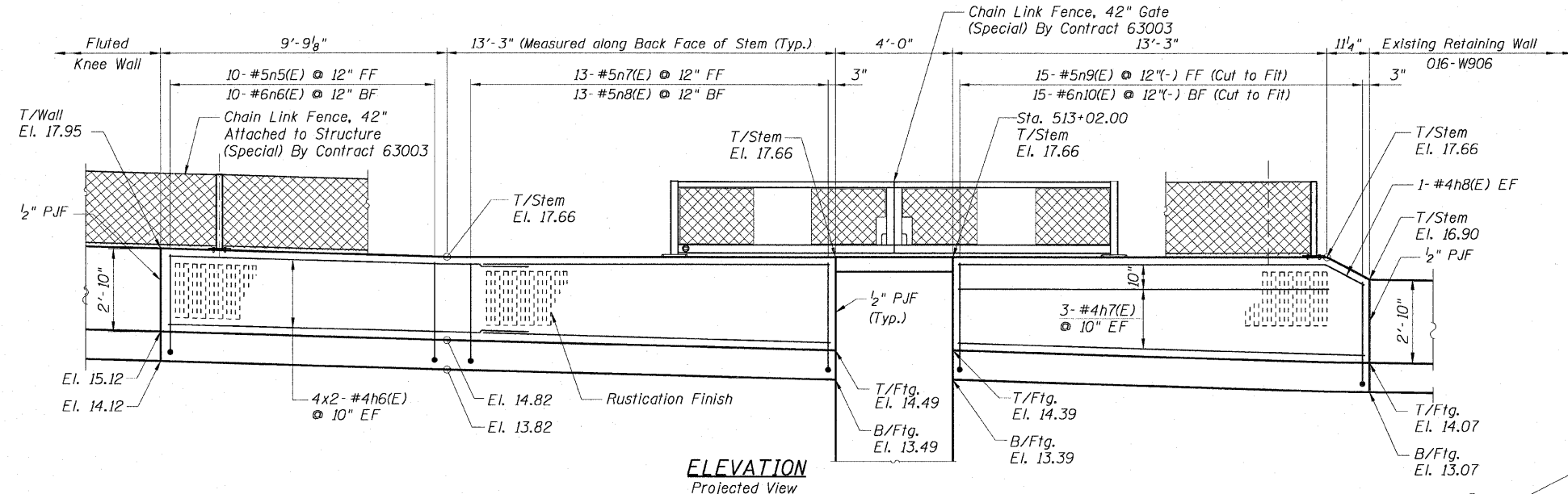
1. For location of Fluted Knee Wall, see Civil Drawings. Stations and offsets are measured from the S. Wells St. to the Wells St. face of the stem.
2. A protective coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 4.
3. For additional Notes, see Sheet S4.
4. For dimensions and details not shown in the sections, see Standard Knee Wall Details Sheet S1.

BILL OF MATERIAL

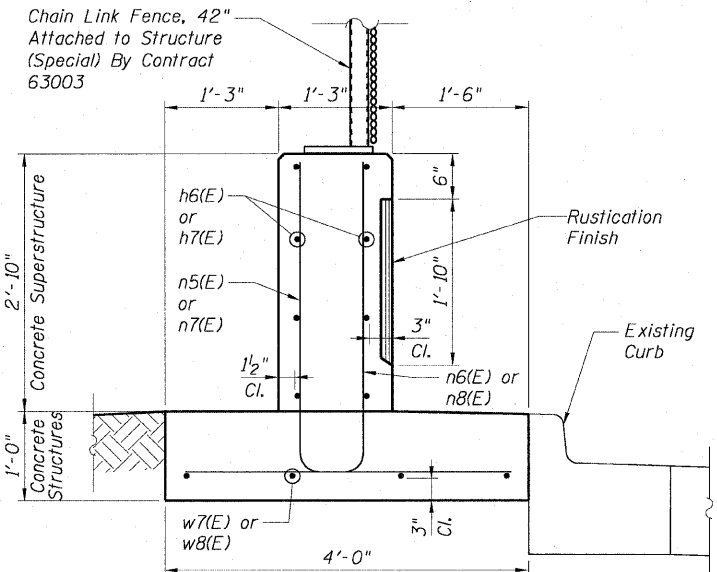
Bar	No.	Size	Length	Shape
h6(E)	16	#4	12'-2"	
h7(E)	6	#4	13'-10"	
h8(E)	2	#4	14'-1"	
n5(E)	10	#5	5'-11"	
n6(E)	10	#6	5'-5"	
n7(E)	13	#5	6'-2"	
n8(E)	13	#6	6'-0"	
n9(E)	15	#5	6'-5"	
n10(E)	15	#6	6'-1"	
w7(E)	4	#4	22'-7"	
w8(E)	4	#4	13'-10"	
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	5.5		
Concrete Superstructure	Cu. Yd.	5.4		
Reinforcement Bars, Epoxy Coated	Pound	883		
Rustication Finish	Sq. Ft.	64		
Protective Coat	Sq. Yd.	24		



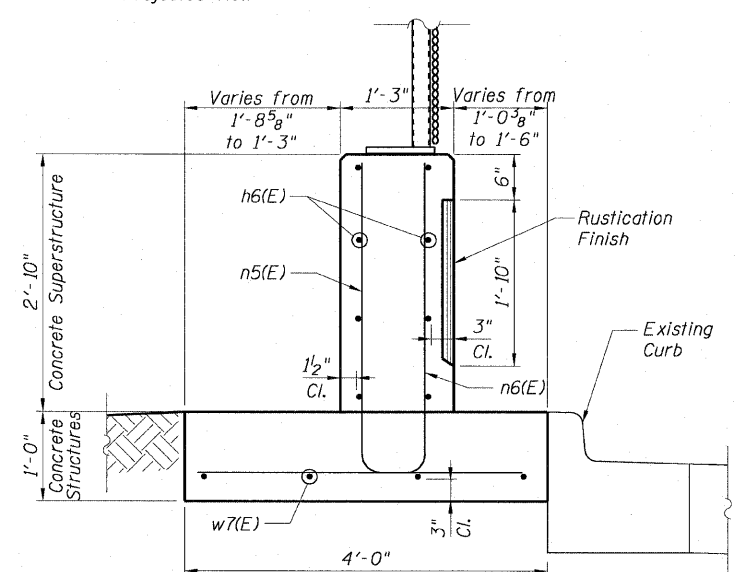
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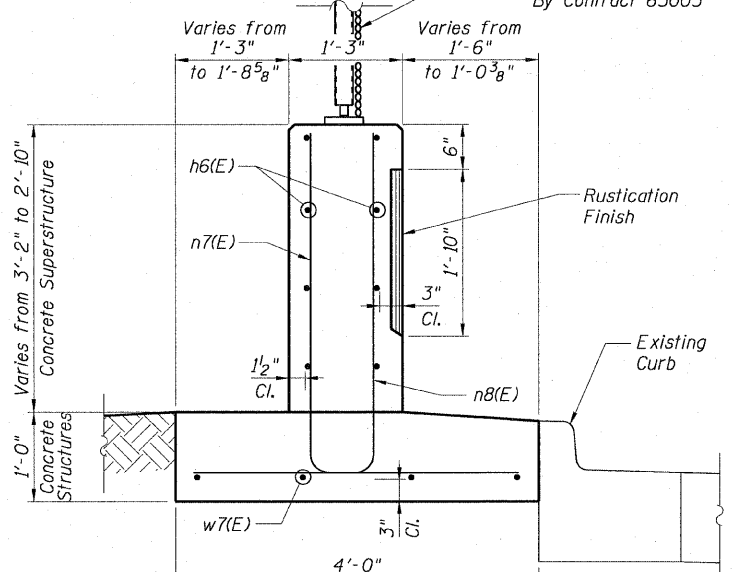
ELEVATION
Projected View



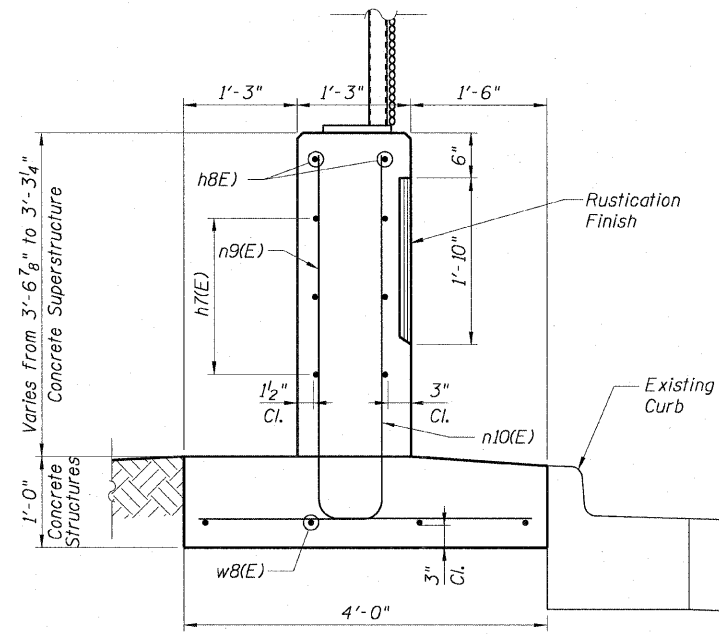
SECTIONS A-A & A1-A1



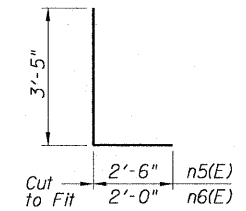
SECTION B-B



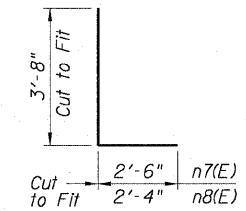
SECTION C-C



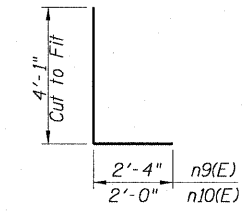
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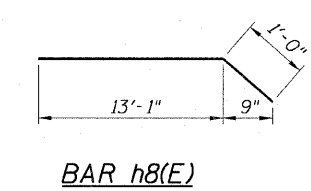
BARS n5(E) and n6(E)



BARS n7(E) and n8(E)



BARS n9(E) and n10(E)



BAR h8(E)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63RD ST TO 59TH ST (NB AND SB KNEE WALLS)
STRUCTURAL DETAIL 4
HMLT 7SCD2 PEDESTAL
STA. 512+75.00 TO STA. 513+16.20
WELLS STREET

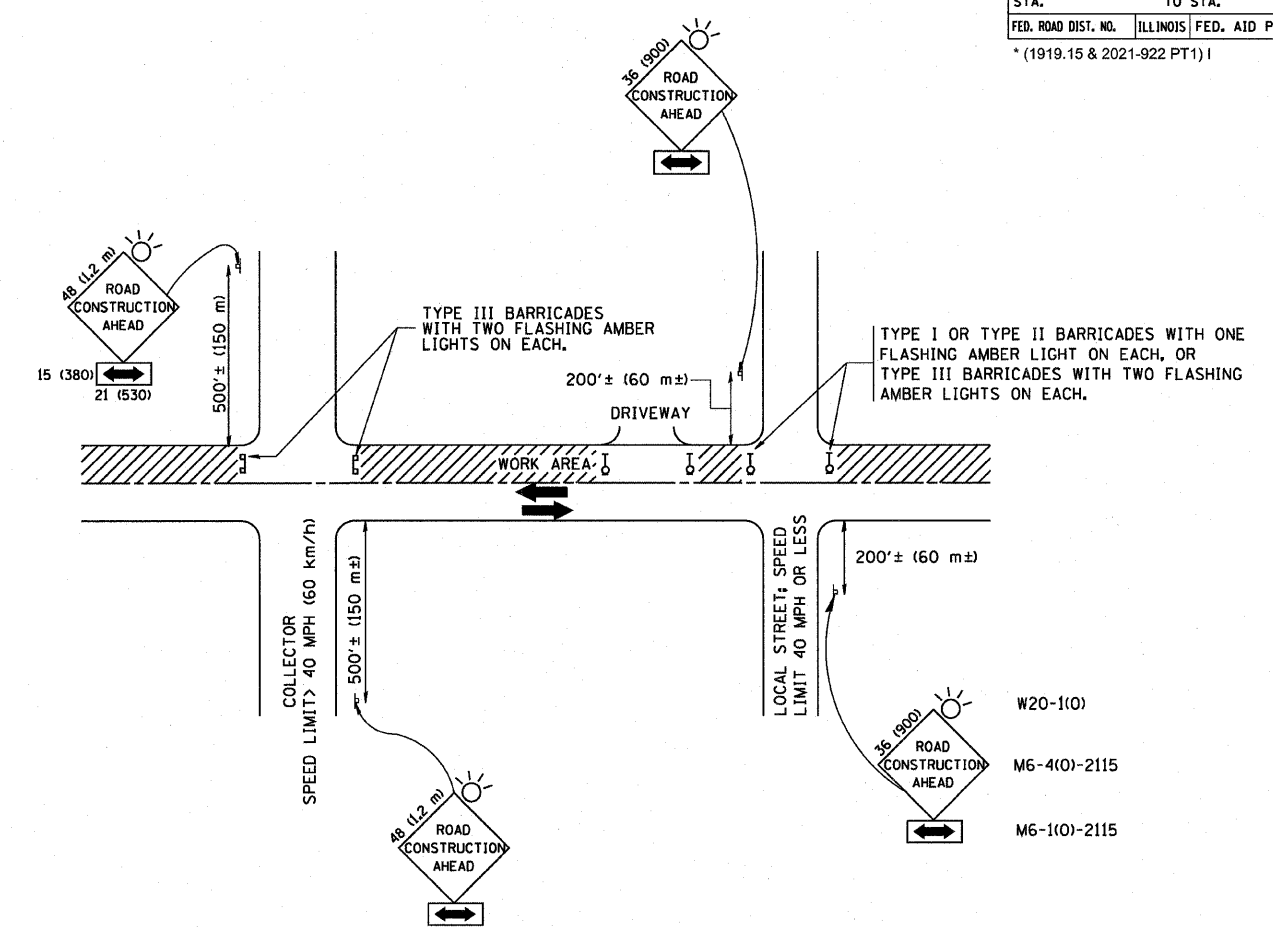
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DRAWN BY: CHD
CHECKED BY: MJP

AECOM

Sheet S5 of 5

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	28
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
*(1919.15 & 2021-922 PT1) I				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- 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:
 - 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.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
 - 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.

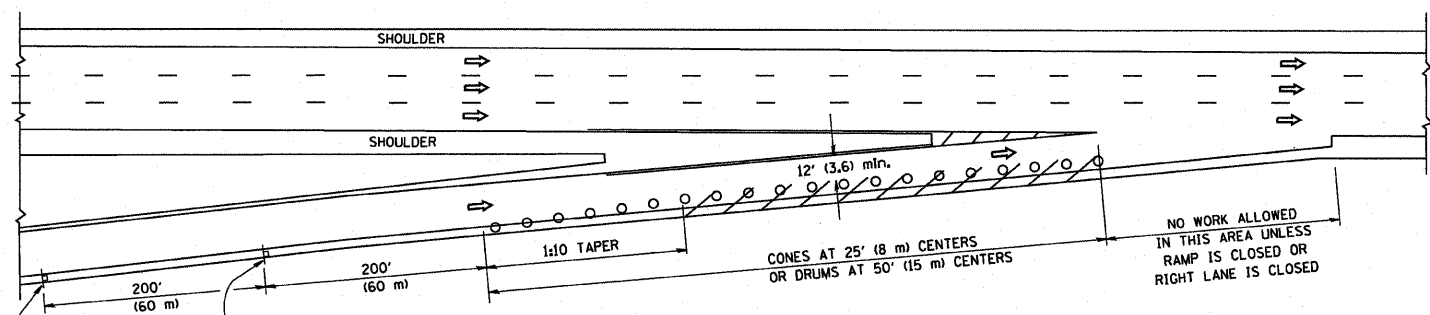
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

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

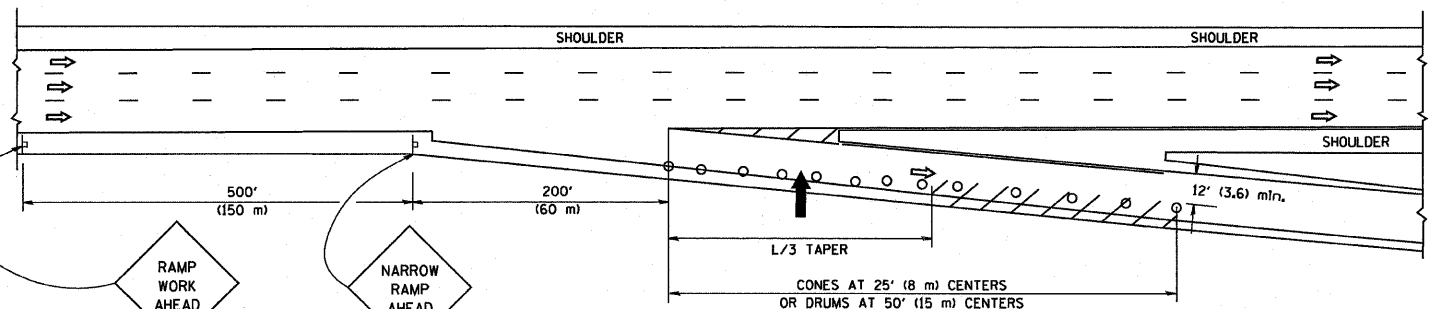
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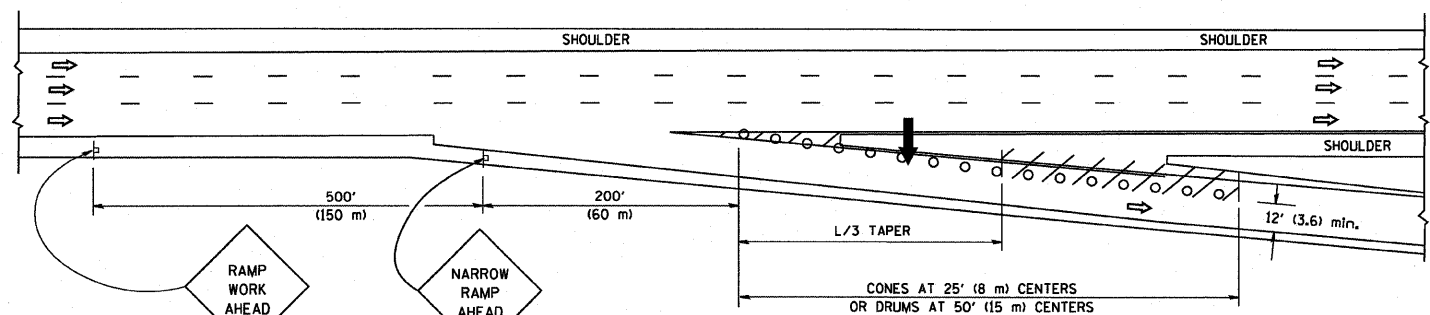
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

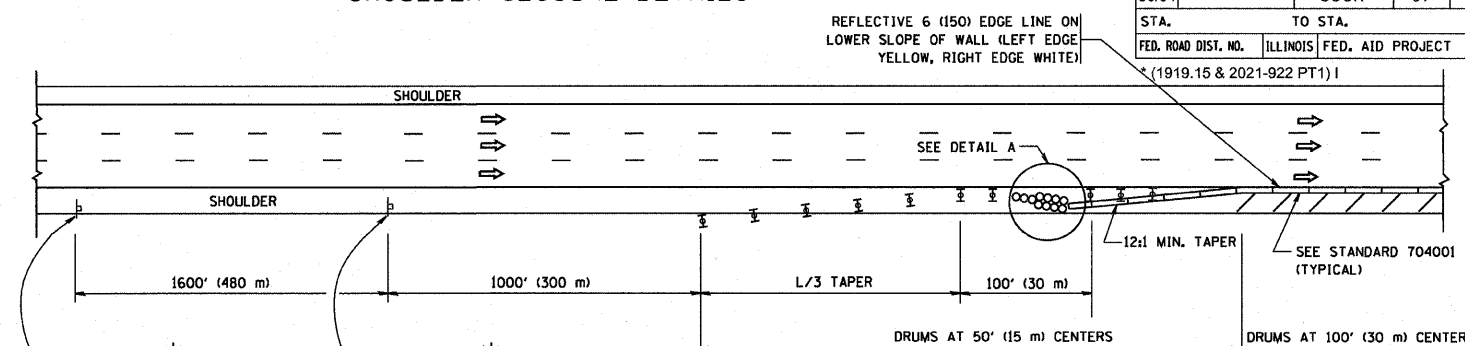
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

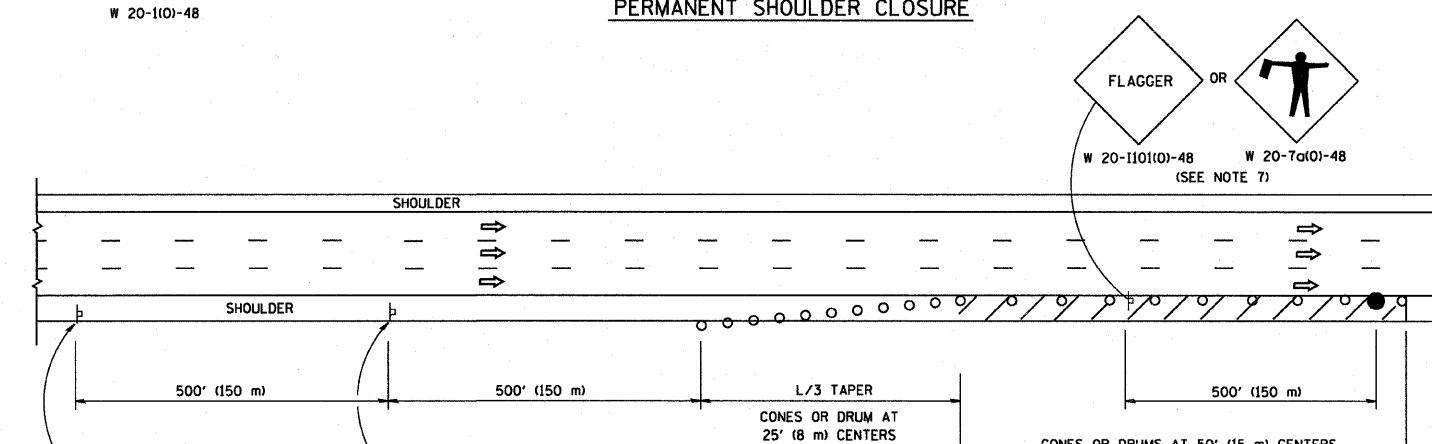
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L = 0.65(W)(S)$ ENGLISH: $L = (W)(S)$
	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.

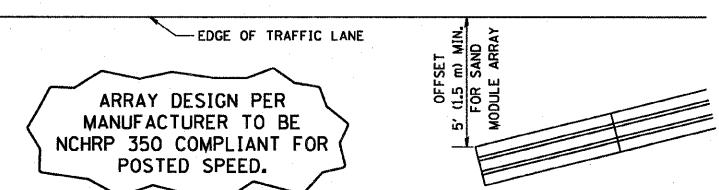
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



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

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 ACTIVITY 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.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(1919.15 & 2021-922 PT1) I				

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

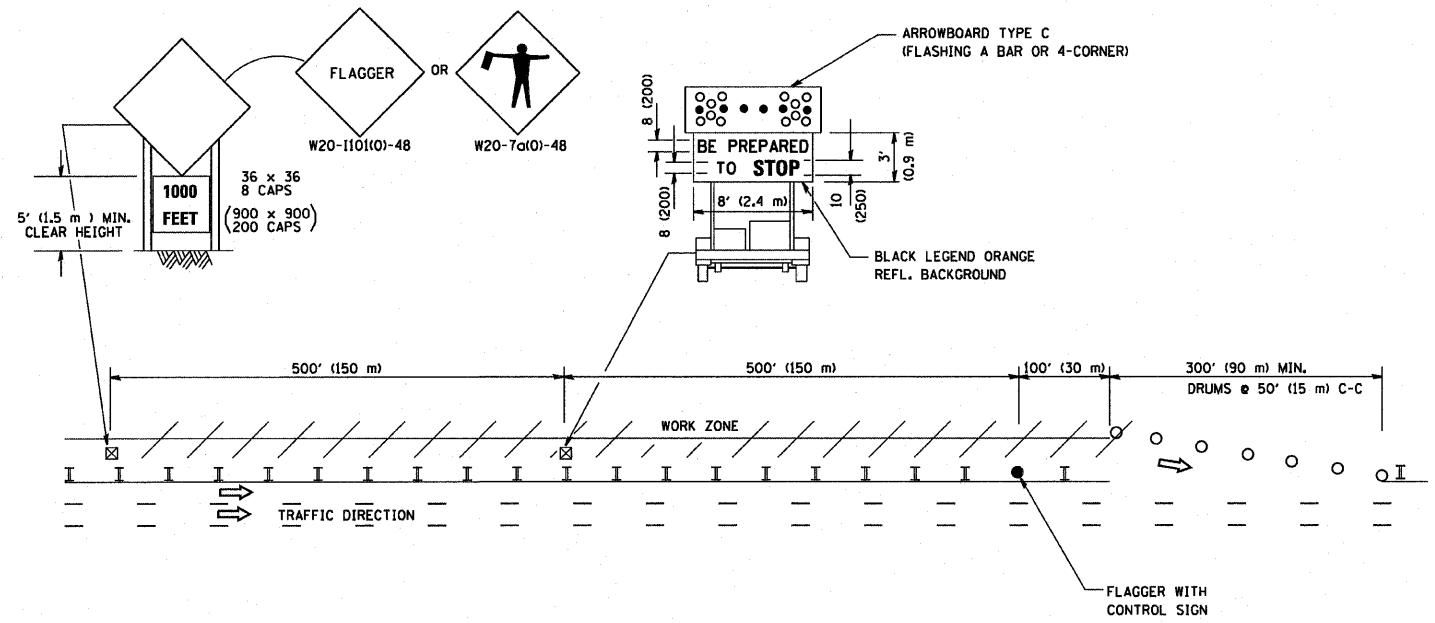
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
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 CHECKED BY:
 SCALE: NONE
 TC-17

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 PLOT SCALE = 50.0000 / 1"
 USER NAME = bauerd01

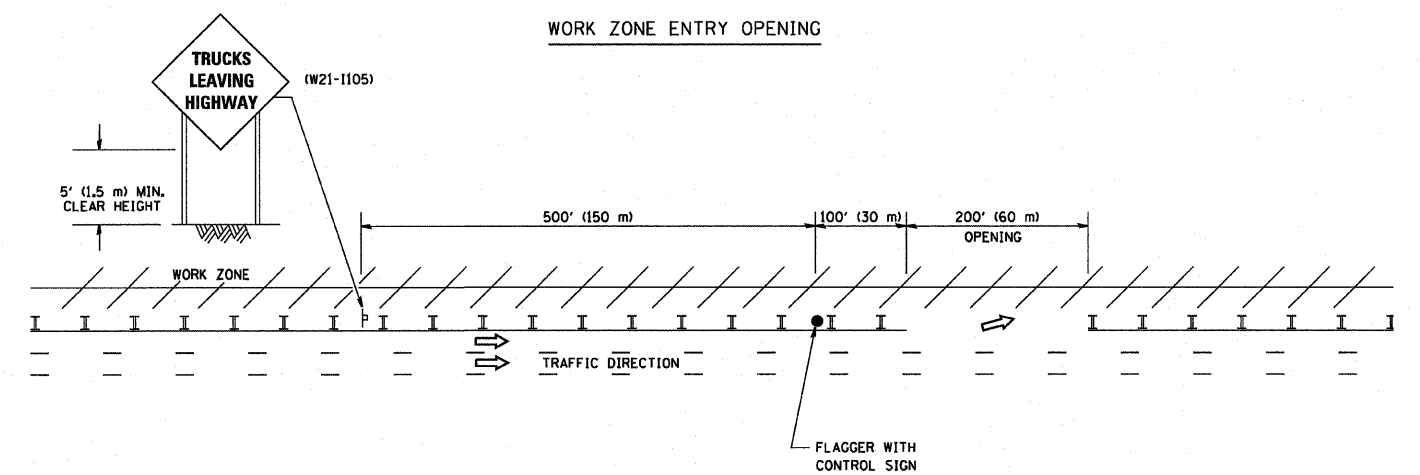
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (1919.15 & 2021-922 PT1)				

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

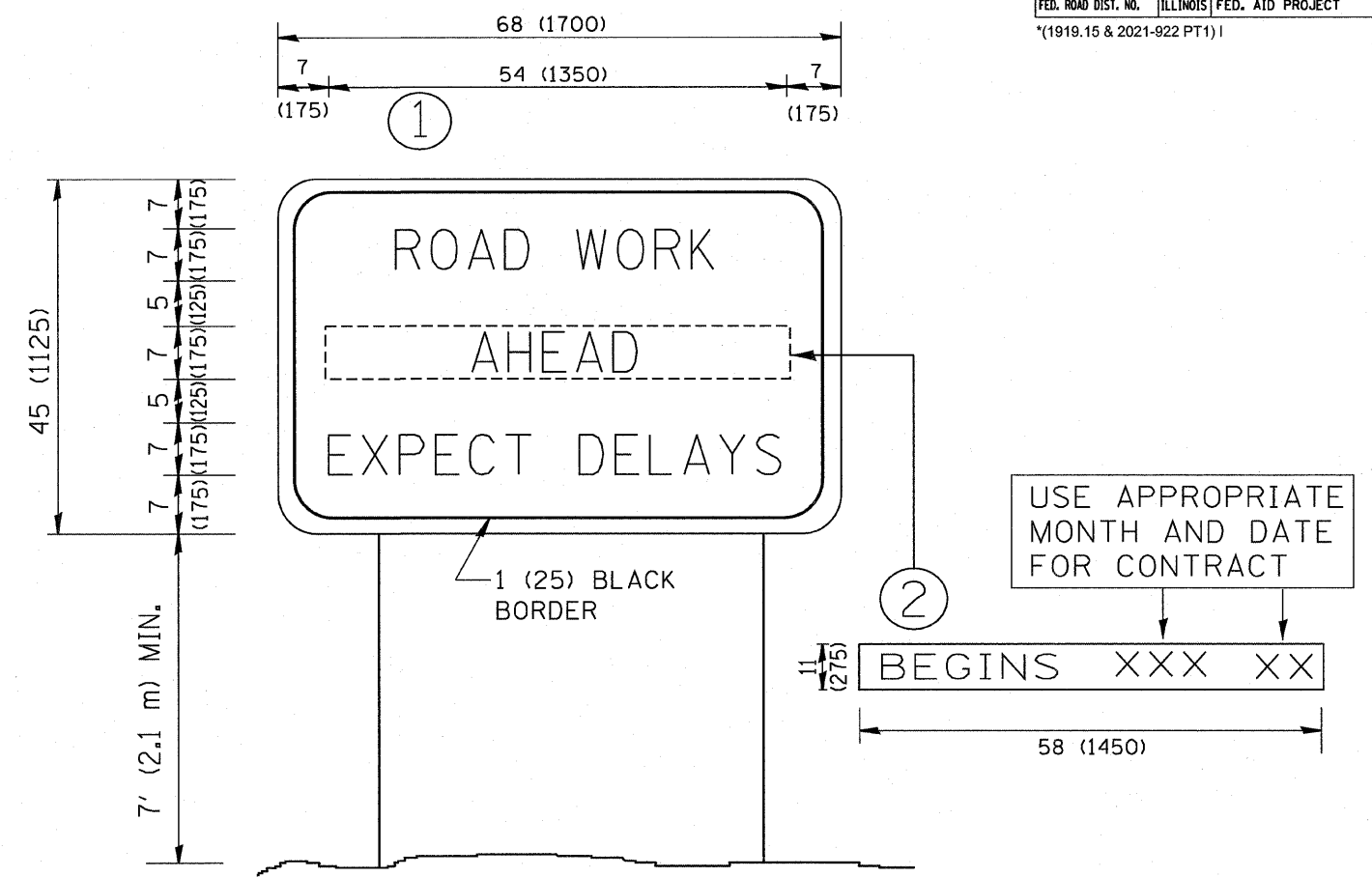
ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CAOD
CHECKED BY
TC-18

PLOT DATE = 3/7/2007
FILE NAME = K:\gis\std\lcb\lcb.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = baurndi

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	31	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(1919.15 & 2021-922 PT1)				



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