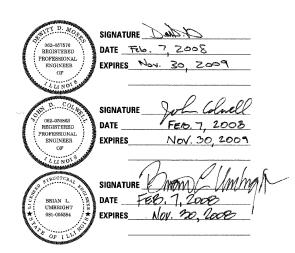
## **DESIGN NUMBER** D-91-417-01



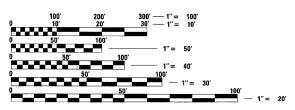
## PROJECT LOCATED IN CITY OF CHICAGO

### **DESIGN DESIGNATION**

WENTWORTH AVE: 8275 (20) URBAN COLLECTOR

ADT DESIGN POSTED (2020) SPEED SPEED

FRONTAGE ROAD: WENTWORTH AVE.



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.

BEFORE EXCAVATING CALL: CHICAGO UTILITY ALERT NETWORK (312) 744-7000

**CONTRACT NO. 62999** 

## STATE OF ILLINOIS

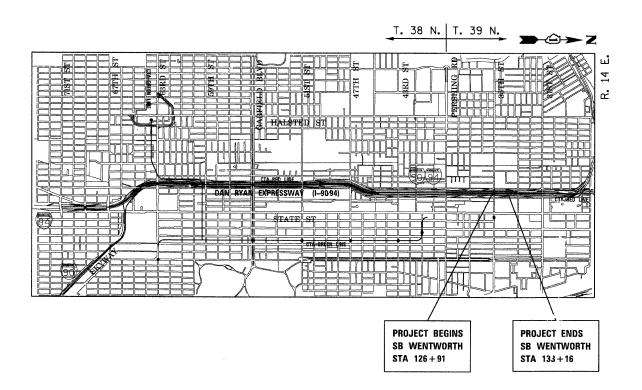
## DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 2324.6-1P-I-4-

> **SOUTHBOUND KNEE WALLS** (35TH ST TO 33RD ST)

> > **COOK COUNTY** C-91-257-05

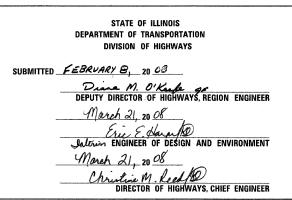


## **LOCATION MAP**

GROSS LENGTH OF PROJECT = 625 FT (0.118 MILES) NET LENGTH OF PROJECT = 625 FT (0.118 MILES)

F.A.I. RTE. 90/94 SECTION COUNTY





## PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com



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FED. ROAD D	DIST. NO. I	LLINOIS	FED.	AID	PROJECT	-

62999

#### **GENERAL NOTES:**

- 1. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:

  CONTRACT 60A05 SB FENCE AND GATES FROM 47TH PLACE TO 31ST ST

  CONTRACT 60A79 GATEWAY LANDSCAPING AND IRRIGATION @ 35TH STREET

  CONTRACT 62303 RECONSTRUCTION OF SOUTHBOUND LOCAL LANES AND RAMPS

  BETWEEN GARFIELD BOULEVARD AND 31ST ST

  CONTRACT 62583 LIGHTING AND SURVEILLANCE 31ST ST TO 1-57 INTERCHANGE
- 2. CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62301
- 3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR MUST CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE MUST BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION MUST BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED ON THE PLANS.
- 4. 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 HOURS 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.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
- 6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR MUST EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.
- 7. USE NO. 6 EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR TYING THE CURB AND GUTTER SECTIONS TO PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY. TIE BARS USED WITH CURB AND GUTTER MUST BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- 8. CHAIN LINK FENCE REMOVAL MUST BE CONSIDERED AS PART OF CLEARING.
- 9. IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED KNEE WALLS OR WHERE PROPOSED KNEE WALL TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- 10. THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 11. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER MUST BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN 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 MIST REMAIN LINDISTURBED.
- 12. ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.

- 13 BARRICADES: THE CONTRACTOR MUST PROVIDE AND INSTALL TWO WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL, ALL TYPE III BARRICADES REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- 14. SUPERSTRUCTURE RATING COARSE AGGREGATE MUST BE USED IN THE CONCRETE BARRIER WALL CONCRETE MIXTURE.
- 15. LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON THE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
- 16. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, ELECTRICAL SYSTEMS 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.
- 17. CRUSHING PLANT AND CONCRETE PLANT LOCATIONS REQUIRE CITY OF CHICAGO APPROVAL.
- 18. THE CONTRACTOR IS ALERTED THAT THERE ARE EXISTING CTA UTILITY FACILITIES WITHIN, ADJACENT TO, AND CROSSING UNDER THE EXPRESSWAY FROM THE FRONTAGE ROADS TO THE CTA OPERATING AREA. THE EXACT LOCATION OF THESE FACILITIES IS NOT KNOWN. THE CONTRACTOR MUST CONTACT THE CTA AT 312-681-3860 FOR LOCATIONS OF THESE FACILITIES BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE CTA OPERATING AREA. FOR ADDITIONAL INFORMATION REGARDING BURIED CONDUITS, CONTACT MR. RICK STRAUBEL, MANAGER TECH SUPPORT, AT 312-922-0508.
- 19. THE CONTRACTOR MUST USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- 20. THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK MUST NOT BE PAID FOR SEPERATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.
- 21. 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.
- 22. 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. EXISTING SIGNS TO BE RELOCATED ONTO PROPOSED KNEE WALL FOOTINGS SHALL BE INSTALLED ACCORDING TO SECTIONS 728 AND 731 OF THE STANDARD SPECIFICATIONS. LABOR AND MATERIALS FOR RELOCATION OF EXISTING SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE FLUTED KNEE WALL.
- 23. 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 TO THE ORIGINAL CONDITION OF THE CURB AND GUTTER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

#### GENERAL NOTES: CITY OF CHICAGO

- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT (312) 747-7892 OR (312) 747-7893.
- BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT 333 SOUTH STATE STREET, SUITE 410, CHICAGO, IL 60604. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.
- 3. IN LOCATIONS WHERE THE MAIN SEWERS, DRAINAGE STRUCTURES, PUBLIC, AND PRIVATE DRAIN CONNECTIONS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
- 4. EXTREME CAUTION IS TO BE TAKEN TO ENSURE THAT NO FACILITY OWNED AND MAINTAINED BY THE DEPARTMENT OF WATER MANAGEMENT IS DAMAGED DURING CONSTRUCTION. IF ANY DAMAGE OCCURS TO ANY FACILITIES, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THEM.
- 5. CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES MUST NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
- 6. THE CHICAGO TRANSIT AUTHORITY (CTA) HAS BUS OPERATIONS ALONG WENTWORTH AVENUE/WELLS STREET. THE CONTRACTOR MUST INFORM THE CTA REPRESENTATIVE MS. CHARLENE RIFFER (GENERAL MANAGER CONSTRUCTION) OF THE ON-GOING PROJECT SCHEDULE STARTING 28 DAYS BEFORE THE START OF CONSTRUCTION AT (312) 681-3851.

REVISIONS
NAME
DATE
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS (35TH ST TO 33RD ST)

GENERAL NOTES

SCALE: NONE

DATE: 02/08/08

DRAWN BY: JDC

CHECKED BY: RS

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100

## SUMMARY OF QUANTITIES


20200100 EAR 21101645 TOP: 25000210 SEEG 25000400 NITE 25000500 PHOS 25000600 POTA 25000800 GROS 25100630 EROS 42001300 PRO 50300225 CONG 50300225 CONG 50300300 PRO 50300205 REIN 60618324 CONG 66400550 CHAI 67100100 MOBI 70101800 TRAF	THEM  THE EXCAVATION  THE EXCA	UNIT  CU YD  SQ YD  ACRE  POUND  POUND  ACRE  SQ YD  SQ YD  CU YD  CU YD  SQ YD  SQ YD  SQ YD  SQ YD  SQ YD  SQ YD	0UANTITY  132  132  0.08  8  8  0.05  364  27  49  2.5  1.9  71	J0000 132 132 132 132 132 132 132 132 132 132
21101645 TOP: 25000210 SEEE 25000400 NITE 25000500 PHOS 25000600 POTA 25000800 GROD 25100630 EROS 42001300 PRO 44004250 PAVE 50300225 CONG 50300255 CONG 50300300 PRO 50300510 RUS 50800205 REIN 60618324 CONG 66400550 CHAI	SOIL FURNISH AND PLACE, 12" SING, CLASS 2A OGEN FERTILIZER NUTRIENT PHORUS FERTILIZER NUTRIENT SIJUM FERTILIZER SIJUM SIJU	SQ YD  ACRE  POUND  POUND  ACRE  SQ YD  SQ YD  CU YD  CU YD  SQ YD  SQ YD  SQ YD  SQ YD	132 0.08 8 8 8 0.05 364 27 49 2.5 1.9	132 0.08 8 8 8 0.09 27 49 2.5
25000210 SEEE 25000210 NITE 25000500 PHOS 25000500 POTA 25000600 GROD 25100630 EROS 42001300 PRO 50300225 CONC 50300225 CONC 50300300 PRO 50300510 RUS 50300510 RUS 60618324 CONC 66400550 CHAI 67100100 MOBI 70101800 TRAF	OGEN FERTILIZER NUTRIENT SPHORUS FERTILIZER NUTRIENT SSIUM FERTILIZER NUTRIENT SION PREPARATION FOR SEEDING SION CONTROL BLANKET ECTIVE COAT D SHOULDER REMOVAL SPRETE STRUCTURES SPRETE SUPERSTRUCTURE SECTIVE COAT SECTIVE COAT SECTIVE COAT SECTIVE COAT SECTIVE SUPERSTRUCTURE SECTIVE COAT SECTIVE SARS, EPOXY COATED	ACRE POUND POUND ACRE SQ YD SQ YD CU YD CU YD SQ YD SQ YD SQ YD	0.08  8  8  8  0.05  364  27  49  2.5  1.9	0.00 8 8 8 0.00 364 27 49 2.5
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50300225 CONC 50300255 CONC 50300300 PRO 50300510 RUS 50800205 REIN 60618324 CONC 66400550 CHAI 67100100 MOBI 70101800 TRAF	RETE STRUCTURES RETE SUPERSTRUCTURE ECTIVE COAT ICATION FINISH FORCEMENT BARS, EPOXY COATED	CU YD CU YD SQ YD SQ FT	2.5 1.9 71	2.5 1.9
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50800 <b>2</b> 05 REIN 60618324 CONG 66400550 CHAI 67100100 MOBI 70101800 TRAF	FORCEMENT BARS, EPOXY COATED		35	
60618324 CONG 66400550 CHAI 67100100 MOBI 70101800 TRAF		DOLIND.	1	35
66400550 CHAI 67100100 MOBI 70101800 TRAF		POUND	400	400
67100100 M0BI 70101800 TRAF	RETE MEDIAN SURFACE, 6 (SPECIAL)	SQ FT	188	188
70101800 TRAF	N LINK FENCE, 4' (SPECIAL)	FOOT	580	580
	LIZATION	L SUM	1	1
X0322256 TEMF	FIC CONTROL AND PROTECTION; (SPECIAL)	L SUM	1	1
	ORARY INFORMATION SIGNING	SQ FT	26	26
X0323973 SEDI	MENT CONTROL, SILT FENCE	FOOT	624	624
X0323974 SEDI	MENT CONTROL, SILT FENCE MAINTENANCE	FOOT	156	156
X0324640 FLUT	ED KNEE WALL	FOOT	494	494
X6065740 CONC	RETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	48	48
70106800 CHAN	GEABLE MESSAGE SIGN	CAL MO	6	6
Z0013798 CONS	TRUCTION LAYOUT	L SUM	1	1
Z0030020 IMPA	CT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
	NEES	HOUR-		
44002300 CURE	REMOVAL (PARTIAL)	FOOT	59	59

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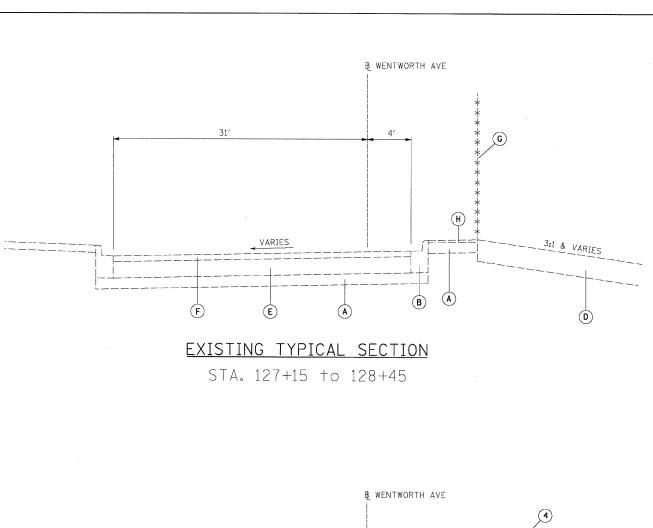
## INDEX OF SHEETS

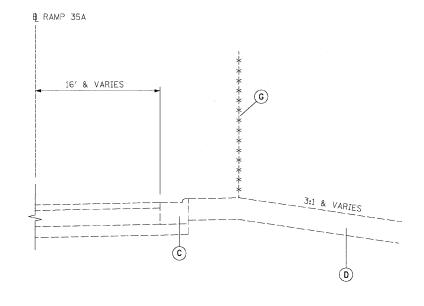
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES / INDEX / HIGHWAY STANDARDS
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-9	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
10-11	EXISTING AND PROPOSED KNEE WALL PLANS
12-13 <b>A</b>	STRUCTURAL DETAILS
14	BD-51 DISTRICT 1, BENCHING DETAIL FOR EMBANKMENT WIDENING
15	TC-10 DISTRICT 1, TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
16	TC-17 DISTRICT 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
17	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
18	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN
19-22	CROSS SECTIONS

## IDOT HIGHWAY STANDARDS

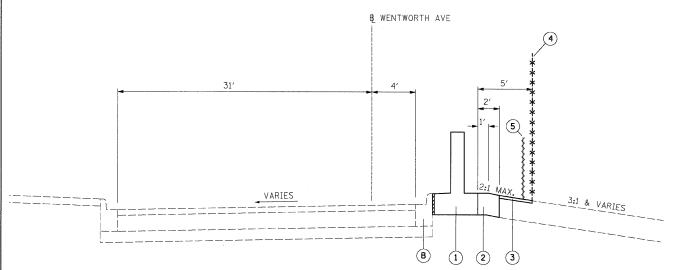
SHEE	Т	DESCRIPTION
0000 00100 00100 66400 70170 70180 70190 72000 72800 73100	06 01-01 01-05 01-05 01-03 01 01 06-01	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS  AREAS OF REINFORCEMENT BARS  DECIMAL OF AN INCH AND OF A FOOT  CHAIN LINK FENCE  URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN  URBAN LANE CLOSURE, MULTILANE INTERSECTION  LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, for speeds < 45 mph  TRAFFIC CONTROL DEVICES  SIGN PANEL MOUNTING DETAILS  SIGN PANEL RECTION DETAILS  TELESCOPING STEEL SIGN SUPPORT  BASE FOR TELESCOPING STEEL SIGN SUPPORT

		S0Q-1
REVISIONS DATE	ILLINOIS DEPARTMEN	NT OF TRANSPORTATION
TWWE STATE		RYAN EXPRESSWAY) LS (35TH ST TO 33RD ST)
	INDEX	OF QUANTITIES OF SHEETS STANDARDS
	SCALE: NONE DATE: 02/08/08	DRAWN BY: JDC





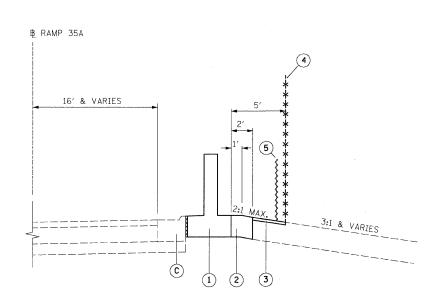
STA. 128+45 to 5007+24



## PROPOSED TYPICAL SECTION

STA. 127+15 to 128+45

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com



STA. 128+45 to 5007+24

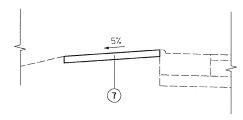
## NOTES:

- 1. THICKNESS OF EXISTING PAVEMENT AND GRANULAR MATERIAL ARE TAKEN FROM RECORD DRAWING PLANS.
- 2. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

F.A.I.	SECTIO	N	COUN	ΓY	TOTAL SHEETS	SHEET NO.
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### EXISTING LEGEND

- GRANULAR MATERIAL, 6"
- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- BITUMINOUS CONCRETE, 3"
- CHAIN LINK FENCE, 4'
- BITUMINOUS MEDIAN SURFACE, 11/2"



## TYPICAL MEDIAN TREATMENT

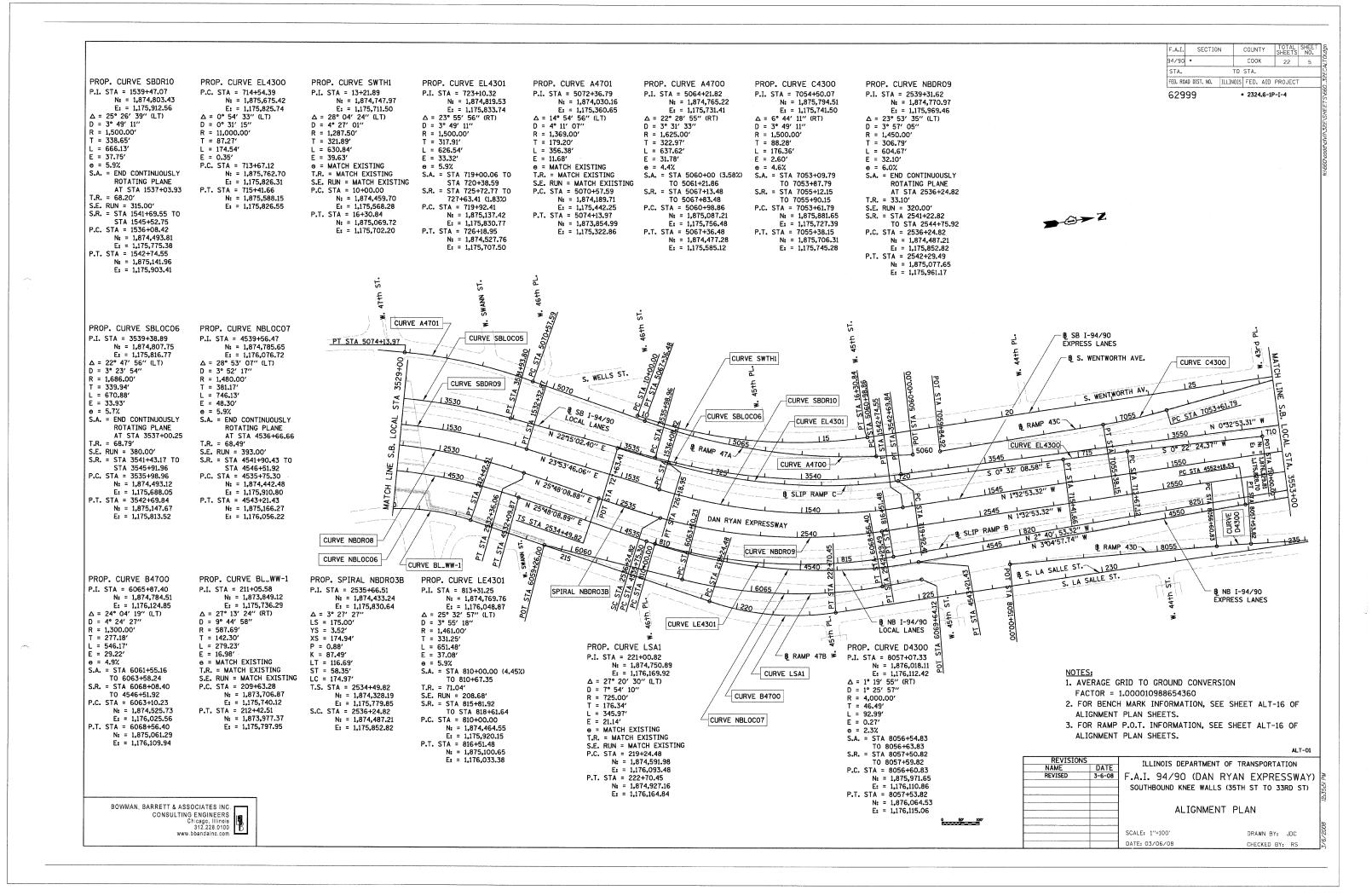
STA. 5006+22 to 5006+81

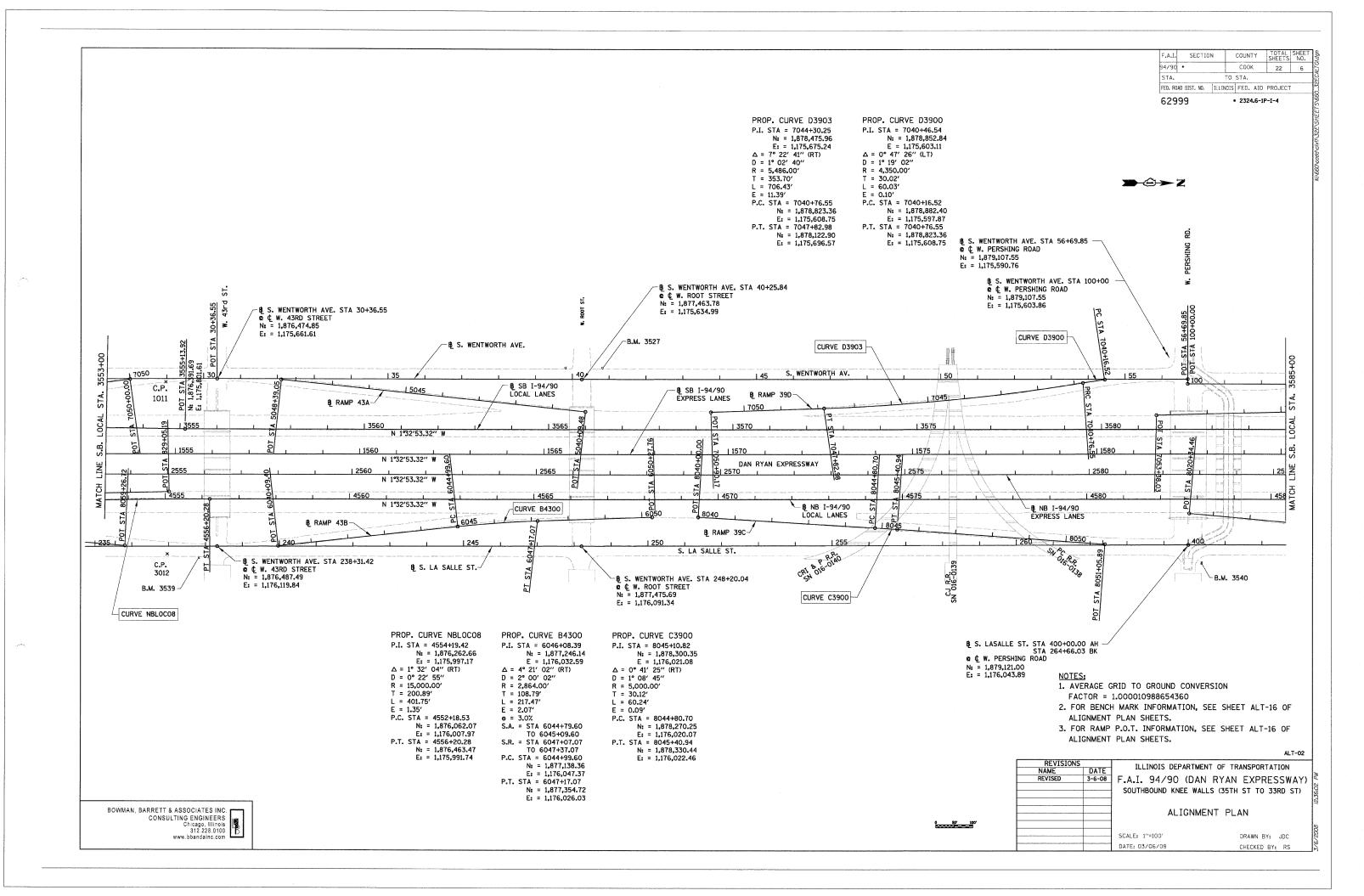
### PROPOSED LEGEND

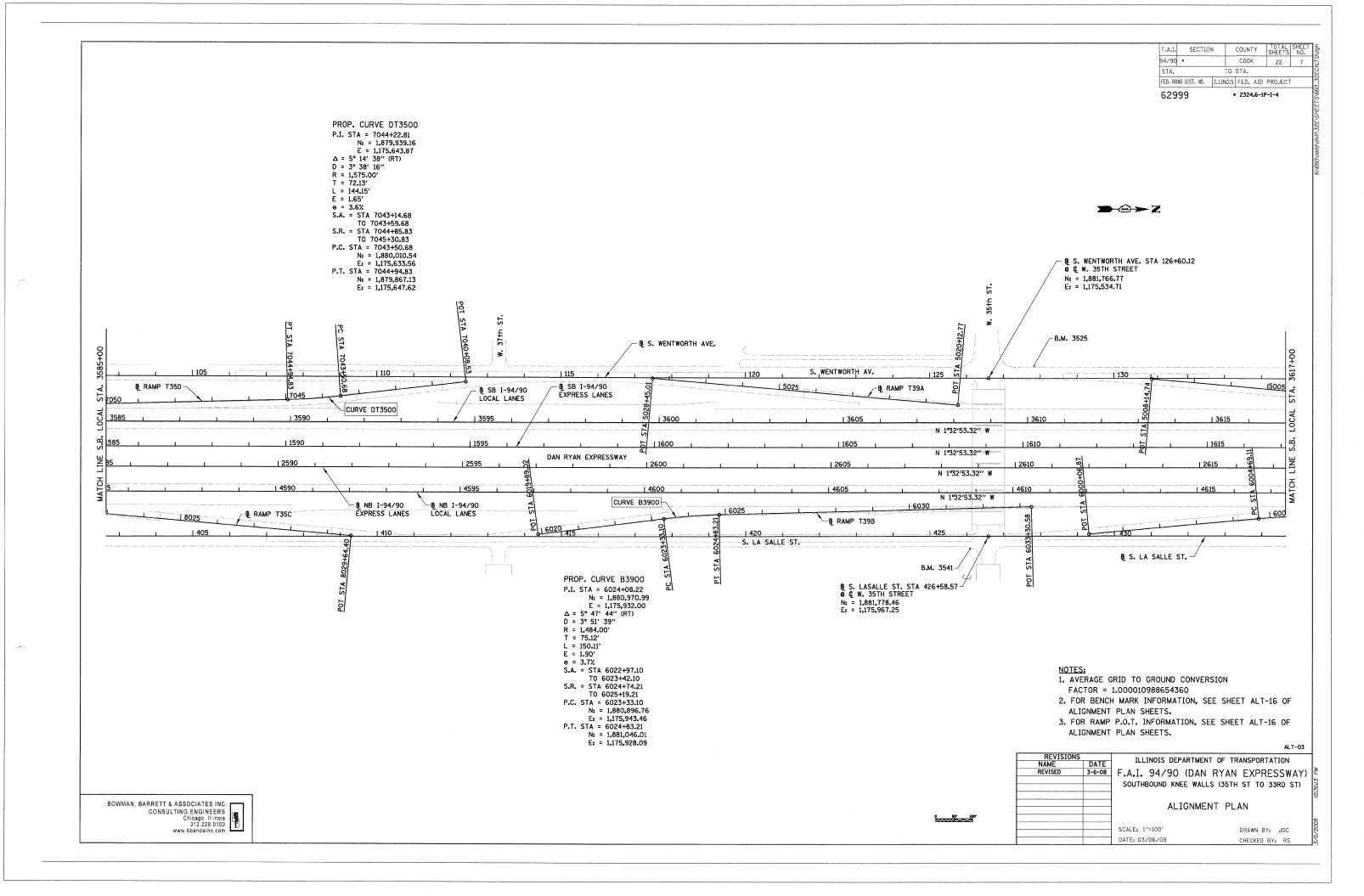
- FLUTED KNEE WALL
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / GROUND PREPARATION FOR SEEDING / EROSION CONTROL BLANKET
- CHAIN LINK FENCE, 4' (SPECIAL)
- SEDIMENT CONTROL, SILT FENCE (TO BE REMOVED AT PROJECT COMPLETION)

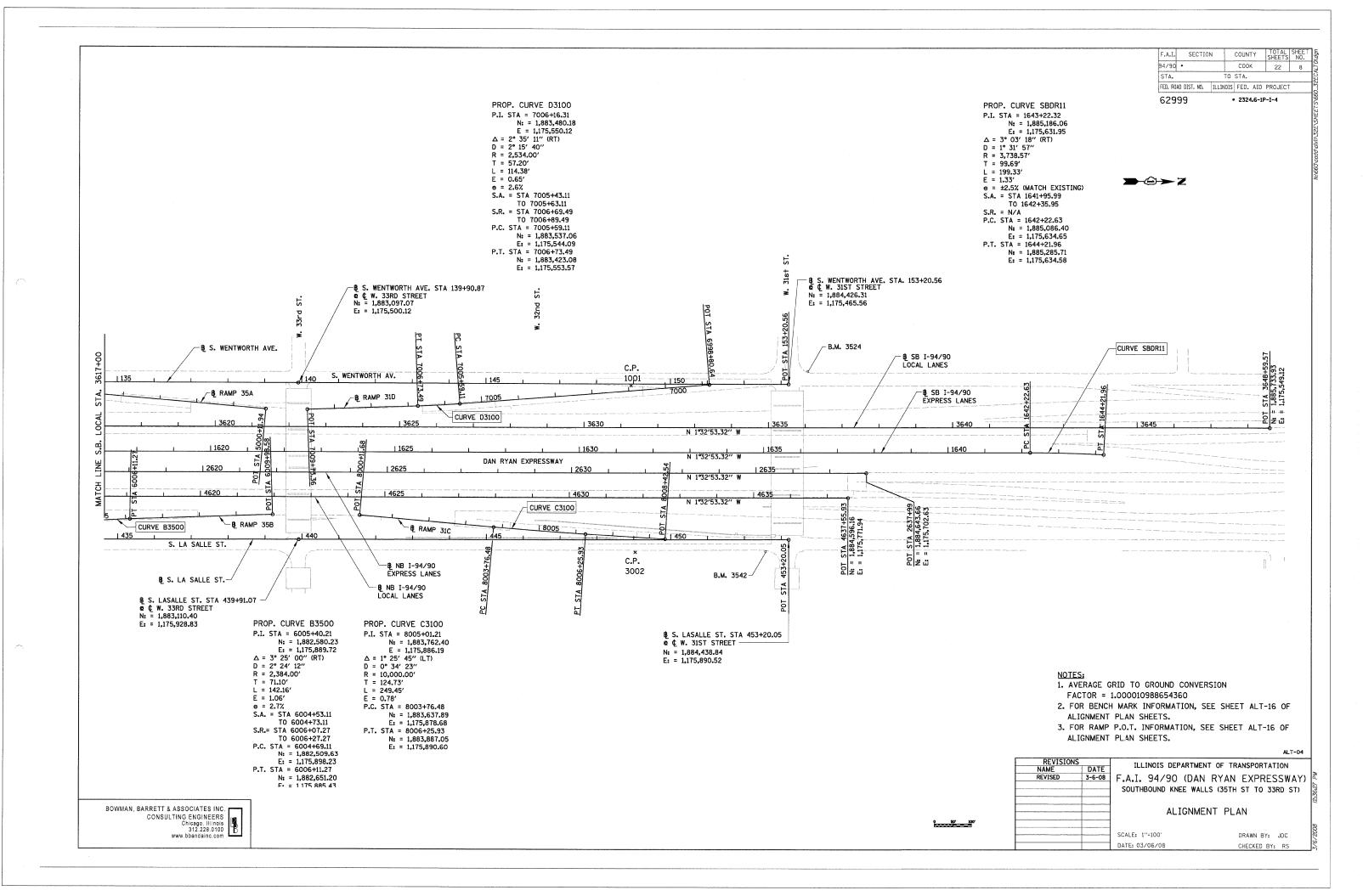
TYP-1

REVISIONS		THE THOIS DEPARTME	ENT OF TRANSPORTATION
NAME	DATE	TELINOIS DEI AINIMI	INT OF TRANSFORTATION
REVISED	3-6-08	F.A.I. 94/90 (DAI	N RYAN EXPRESSWAY)
			2/11 1120011/11/
		SOUTHBOUND KNEE WAI	LLS (35TH ST TO 33RD ST)
		TVDTCAL	SECTIONS
		ITPICAL	SECTIONS
		SCALE: NTS	DRAWN BY: JDC
		DATE: 03/06/08	CHECKED BY: RS

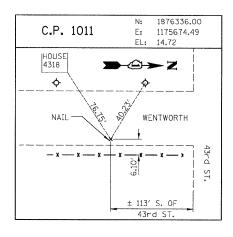


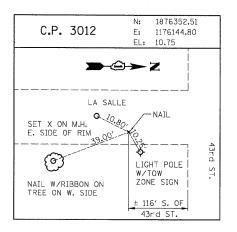


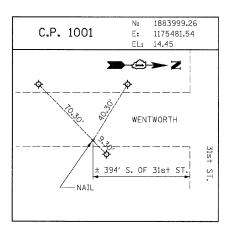


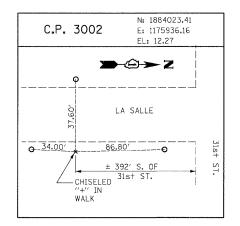












#### RAMP P.O.T. COORDINATE INFORMATION

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP 47A	5060+00.00	1.875.185.77	1,175,764,15
END	RAMP 47A	5074+13.97	1,873,854.99	1,175,322.86
BEGIN	RAMP 47B	6059+26.00	1,874,166,99	1,175,887,94
END	RAMP 47B	6069+64.12	1,875,168.85	1,176,104.15
BEGIN	RAMP 43C	7050+00.00	1,876,238.80	1,175,669.59
END	RAMP 43C	7059+84.92	1,875,259.95	1,175,764.44
BEGIN	RAMP 43D	8051+00.00	1,875,411.12	1,176,092.10
END	RAMP 43D	8059+26.72	1,876,237.16	1,176,124.86
BEGIN	RAMP 43A	5040+09.48	1,877,475.98	1,175,723.30
END	RAMP 43A	5048+39.05	1,876,648.91	1,175,658.90
BEGIN	RAMP 43B	6040+09.40	1,876,652.70	1,176,113.96
END	RAMP 43B	6050+27.76	1,877,664.85	1,176,007.29
BEGIN	RAMP 39D	7040+16.52	1,878,882.40	1,175,597.87
END	RAMP 39D	7050+90.17	1,877,816.27	1,175,715.09
BEGIN	RAMP 39C	8040+00.00	1,877,789.82	1,176,003.91
END	RAMP 39C	8051+05.89	1,878,894.81	1,176,048.24

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP T35D	7040+08.53	1,880,349,18	1,175,584.62
END	RAMP T35D	7053+38.03	1,879,025.07	1,175,691.43
BEGIN	RAMP T35C	8020+34.46	1,879,121.15	1,175,958.93
END	RAMP T35C	8029+64.40	1,880,049.40	1,176,014.92
BEGIN	RAMP T39A	5020+12.77	1,881,685.70	1,175,610.45
END	RAMP T39A	5028+45.01	1,880,854.96	1,175,560.34
BEGIN	RAMP T39B	6019+89.02	1,880,556.70	1,175,995.95
END	RAMP T39B	6033+30.58	1,881,892.23	1,175,884.04
BEGIN	RAMP 35A	5000+11.94	1,883,011.02	1,175,573.65
END	RAMP 35A	5008+14.74	1,882,209.69	1,175,525.14
BEGIN	RAMP 35B	6000+06.87	1,882,050.72	1,175,953.56
END	RAMP 35B	6009+98.58	1,883,037.81	1,175,862.08
BEGIN	RAMP 31D	6998+80.64	1,884,211.76	1,175,472.66
END	RAMP 31D	7009+73.36	1,883,123.75	1,175,571.65
BEGIN	RAMP 31C	8000+11.68	1,883,273.75	1,175,856.72
END	RAMP 31C	8008+42.54	1,884,103.52	1,175,898.24

BENCH MARK NO. 3524 ELEV. 15.17

DESCRIPTION:

CROSS CUT ON NORTH FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 31st ST. AND WENTWORTH AVE.

BENCH MARK NO. 3525 ELEV. 16.93

DESCRIPTION: CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER, OF 35th ST. AND WENTWORTH AVE.

BENCH MARK NO. 3526 ELEV. 17.37

DESCRIPTION:

CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE WENTWORTH GARDEN OFFICE ALONG THE WEST SIDE OF WENTWORTH AVE.

BENCH MARK NO. 3527 ELEV. 15.63

DESCRIPTION:

CROSS CUT ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ROOT ST. AND WENTWORTH AVE.

BENCH MARK NO. 3539 ELEV. 13.10

CROSS CUT ON EASTERLY BOLT OF LIGHT POLE BASE AT THE SOUTHEAST CORNER OF 43rd ST. AND LA SALLE ST.

BENCH MARK NO. 3540 ELEV. 12.33

DESCRIPTION:

SOUARE CUT ON THE SOUTHWEST CORNER OF THE TRAFFIC CONTROL BOX AT THE NORTHEAST CORNER OF 39th ST. AND LA SALLE ST.

BENCH MARK NO. 3541 ELEV. 14.78

DESCRIPTION:

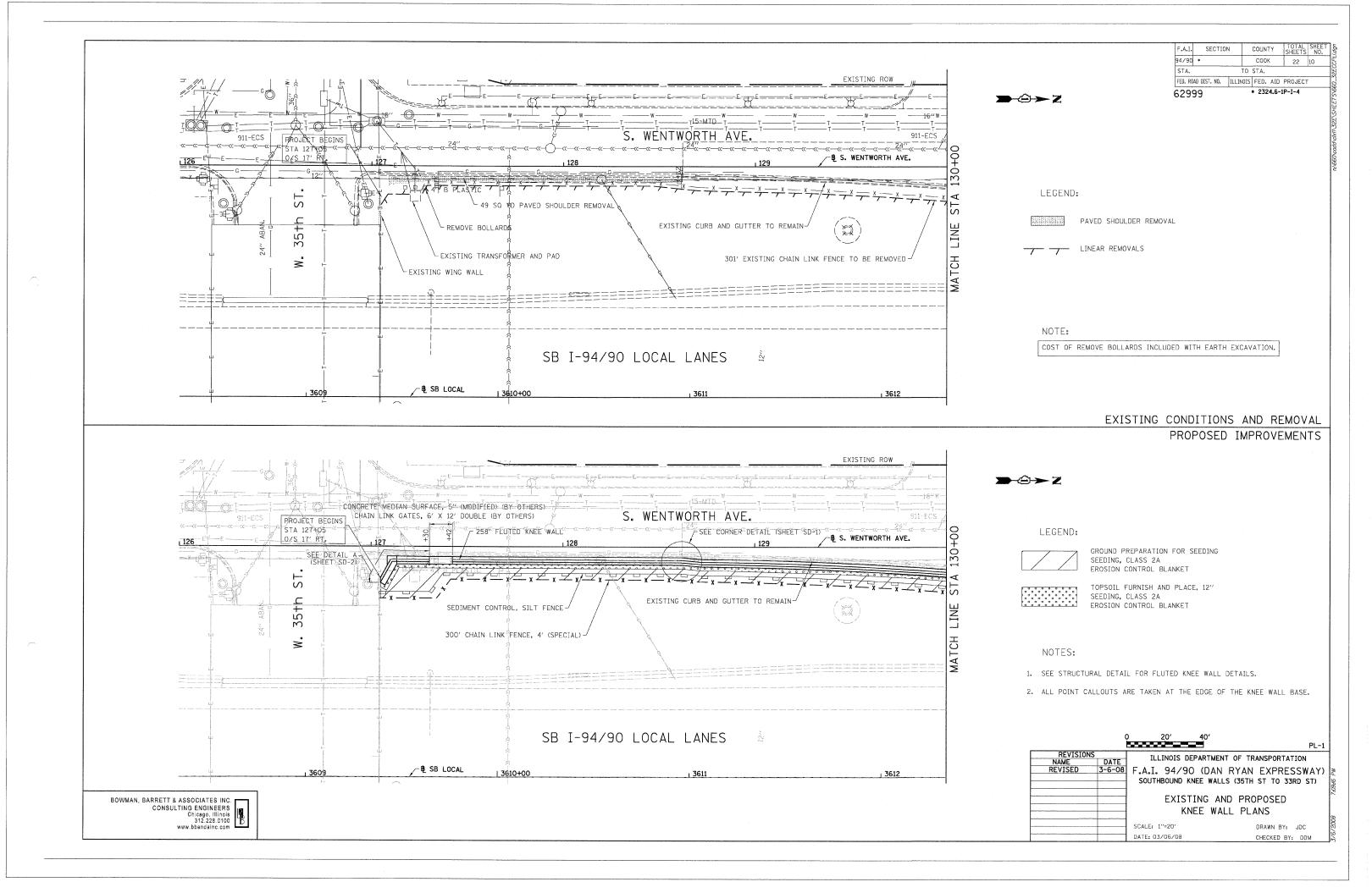
CROSS CUT ON THE SOUTHWEST BOLT OF LIGHT POLE BASE AT THE SOUTH EAST CORNER OF 35th ST. AND LA SALLE ST.

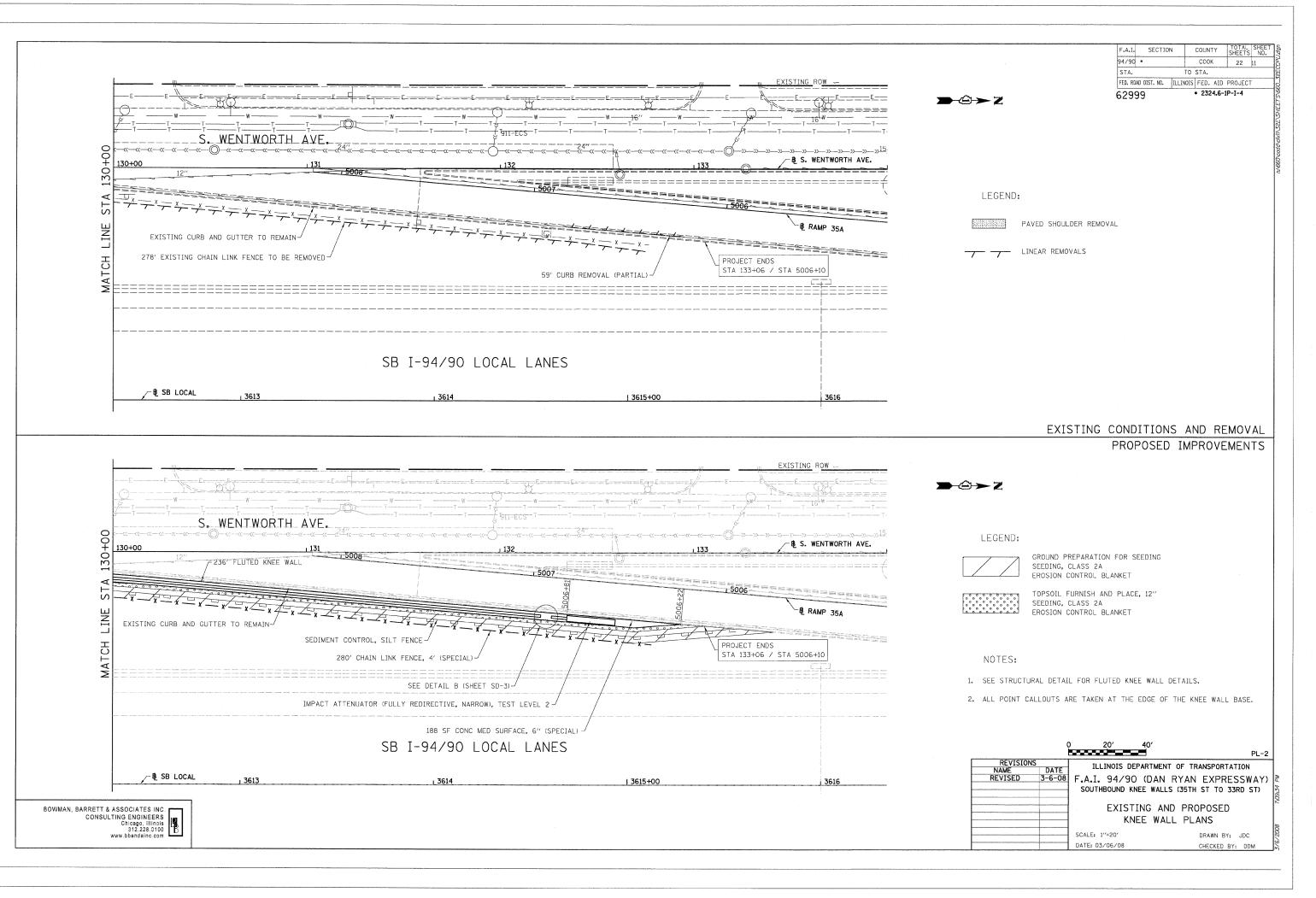
BENCH MARK NO. 3542 ELEV. 13.57

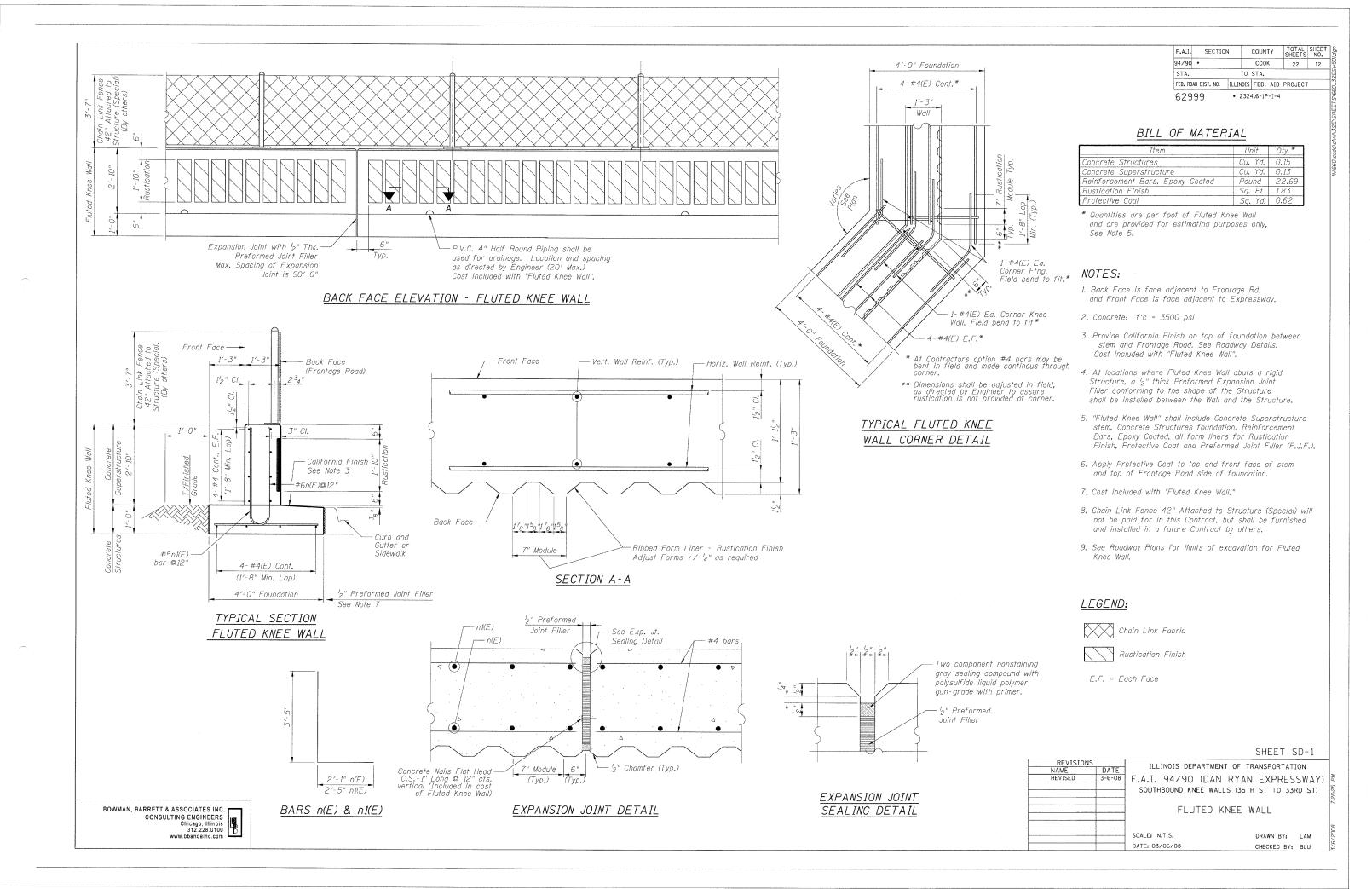
DESCRIPTION: CROSS CUT ON THE EASTERLY FLANGE BOLT OF THE FIRE HYDRANT AT THE INTERSECTION OF 31st ST. AND LA SALLE ST. ALT-05

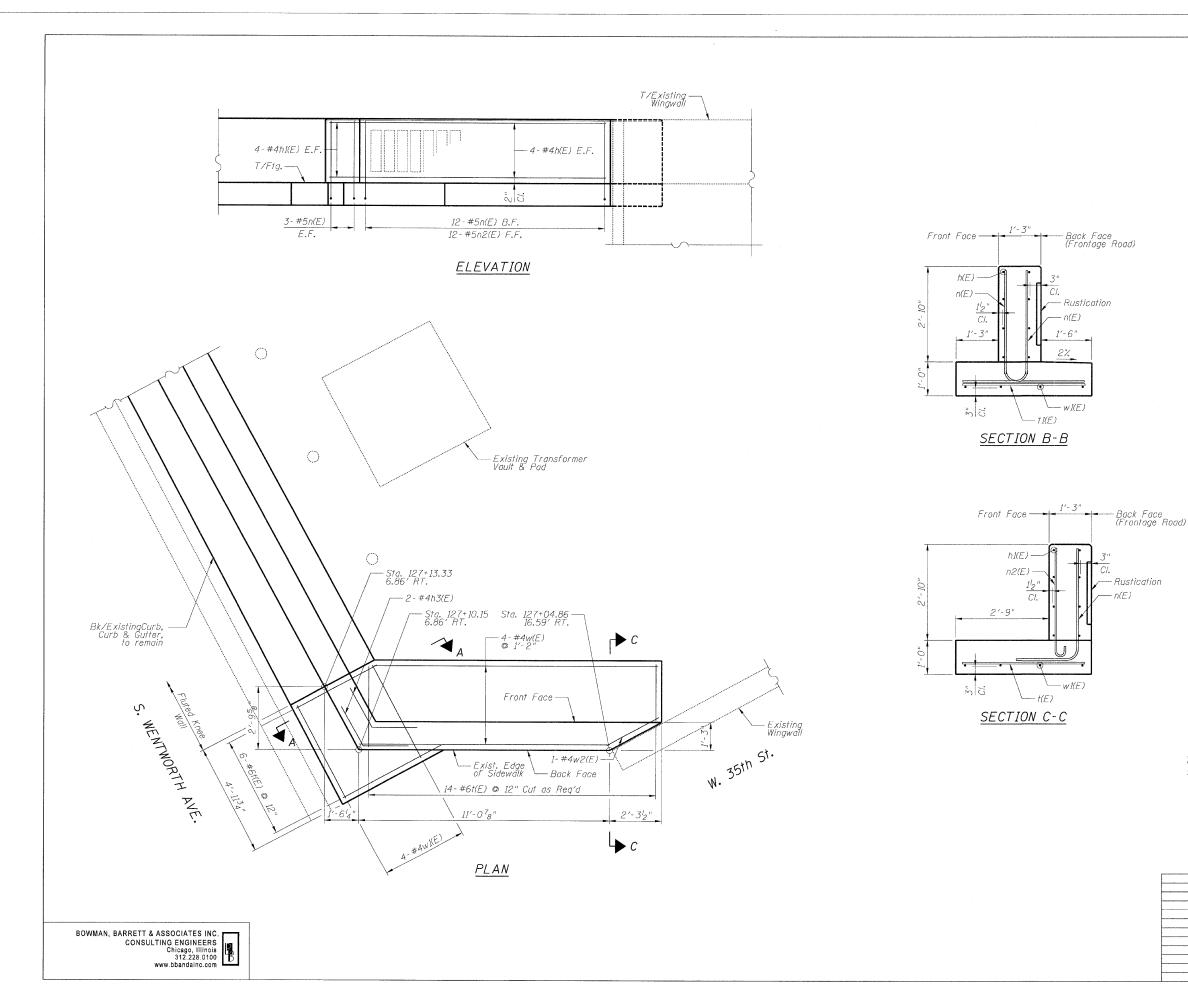
ILLINOIS DEPARTMENT	OF TRANSPORTATION
I IEEE KOIS DEL AKTIMEKT	OF TRAINS ORTAINOR
] F A T 94/90 (DAN F	RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS	(35TH ST TO 33RD ST)
1	
1	
l ALIGNMENT	T PLAN
50415 1//-100/	22.1111.211
SCALE: 1"=100"	DRAWN BY: JDC
DATE: 03/06/08	CHECKED BY: RS
	F.A.I. 94/90 (DAN F SOUTHBOUND KNEE WALLS ALIGNMEN'

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com











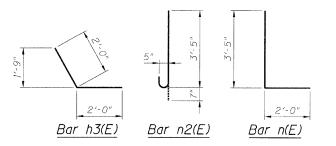
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# DETAIL A REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
hI(E)	8	#4	10′-9"	
h2(E)	8	#4	2'-10"	
h3(E)	2	#4	4'-0"	
n(E)	18	#5	5′-6"	L
n2(E)	15	#5	4'-0"	c
†(E)	20	#6	3′-8"	
w(E)	4	#4	12'-4"	
w1(E)	4	#4	4'-8"	
Item			Unit	Qty.
Concrete Structures			Cu. Yd.	2.5
Concrete Superstructure			Cu. Yd.	1.9
Reinforcement Bars, Epoxy Coated			Pound	400
Rustication Finish			Sq. Ft.	35
Protective Coat			Sq. Yd.	8

## NOTES:

- 1. All stations and offsets measured from S. Wentworth Ave. E.
- 2. Back Face is face adjacent to Frontage Rd. and Front Face is face adjacent to Expressway.
- 3. Concrete: f'c = 3500 psi
- 4. Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details.
- 5. At locations where Fluted Knee Wall abuts a rigid Structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- 6. Apply Protective Coat to top and front face of stem and top of Frontage Road side of foundation.
- 7. For Fluted Knee Wall standard details, see Sheet SD-1
- 8. B.F. = Back Fac F.F. = Front Fa E.F. = Each Fac



SHEET SD-2

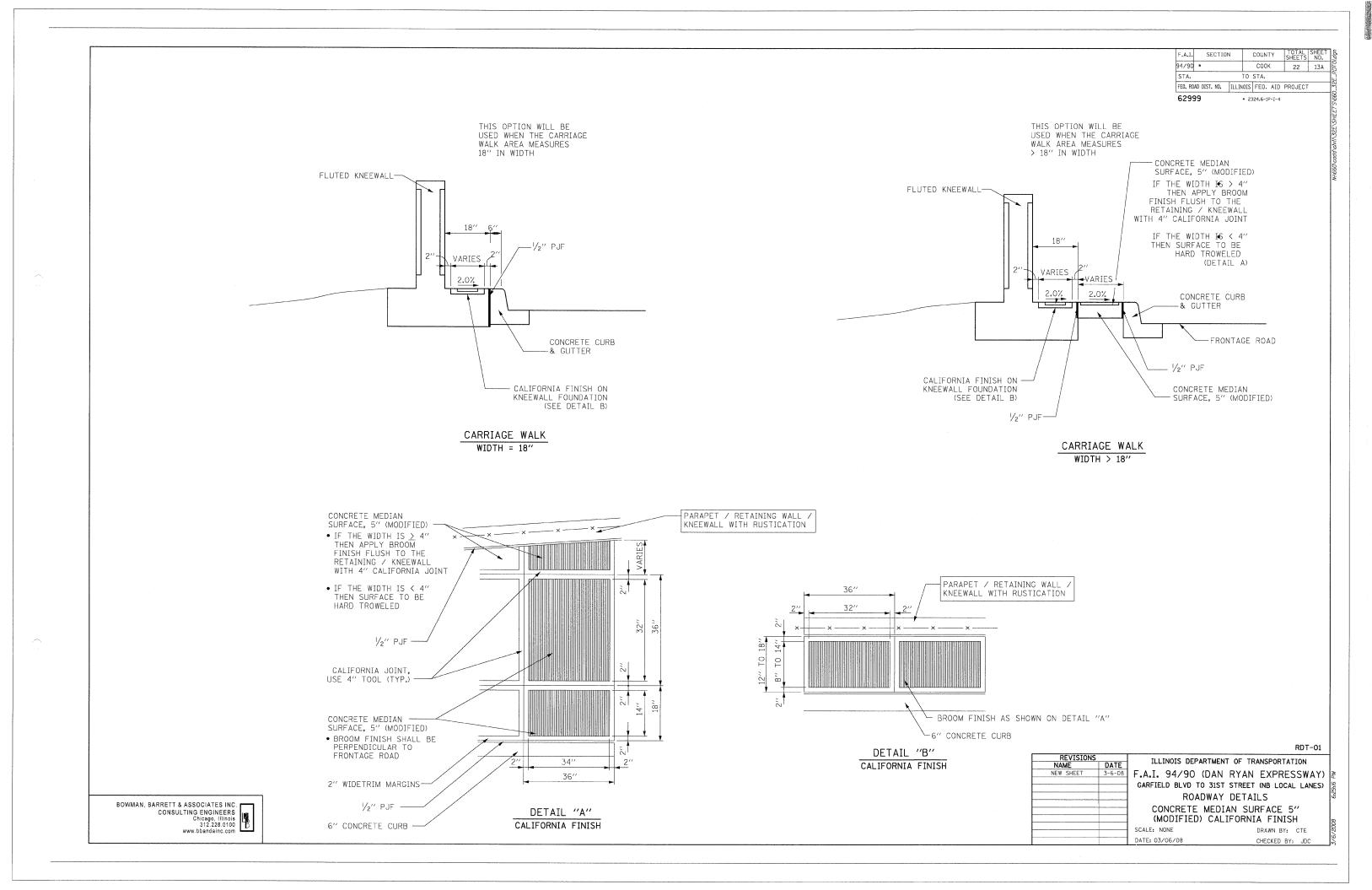
ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

NORTHBOUND KNEE WALLS (35TH ST TO 33RD ST)

DETAIL A

SCALE: N.T.S. DATE: 03/06/08 DRAWN BY: PAH CHECKED BY: BLU



COUNTY RTE. SECTION 94/90 COOK 22 14 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO.

GUARDRAIL OR PROP. EMBANKMENT CONCRETE BARRIER-WIDENING (VARIES) \_\_2'-0" (600) MAXIMUM (2.4 m MIN.) -PROPOSED FORESLOPE 2:1 MAXIMUM

## TYPICAL BENCHING DETAIL FOR EMBANKMENT

(3.6 m MAX.)

## NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT
- 2 EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- 3 BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4 TRIM TO FINAL SLOPE.
- EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- 6 EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

MERGER POINT

ILLINOIS DEPARTMENT OF TRANSPORTATION BENCHING DETAIL FOR EMBANKMENT WIDENING SCALE: VERT, NONE DRAWN BY: CADD

CHECKED BY: S.E.B. BD-51

COUNTY TOTAL SHEE SHEETS NO. COOK 94/90 22 15 TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT P ROAD CONSTRUCTION ROAD CONSTRUCTION TYPE III BARRICADES -WITH TWO FLASHING AMBER LIGHTS ON EACH. AHEAD TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 15 (380) 200'± (60 m±)-AMBER LIGHTS ON EACH. DRIVEWAY WORK AREA J STREET; SPEED 40 MPH OR LESS 200'± (60 m±) 09) COLLECTOR LIMIT> 40 MPH ( LOCAL W20-1(0) ROAD SPEED CONSTRUCTION AHEAD M6-4(0)-2115 ROAD M6-1(0)-2115

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:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE
- 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)
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48  $\times$  48 (1.2 m  $\times$  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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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
- 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

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

SECTION

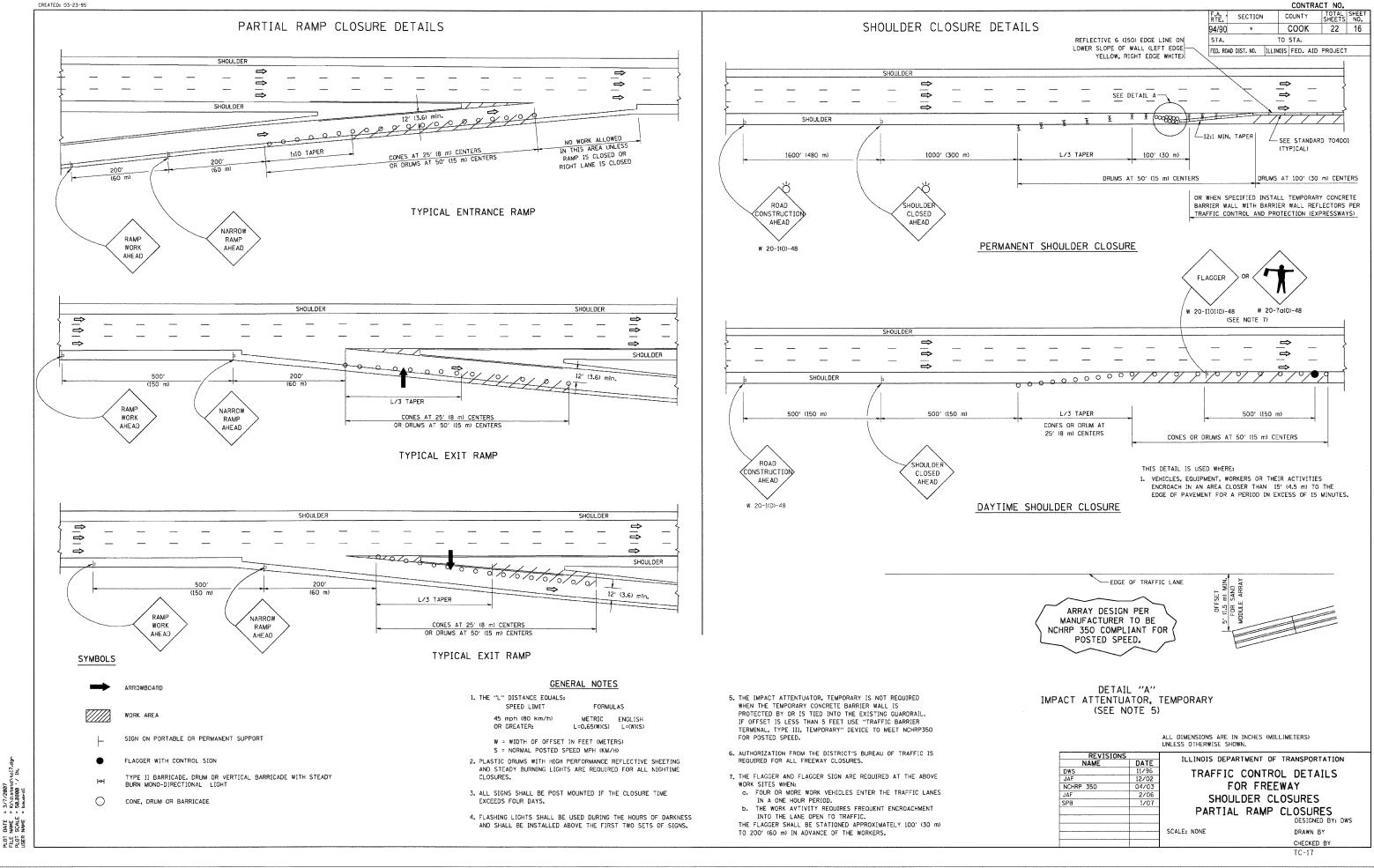
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ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR

SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE

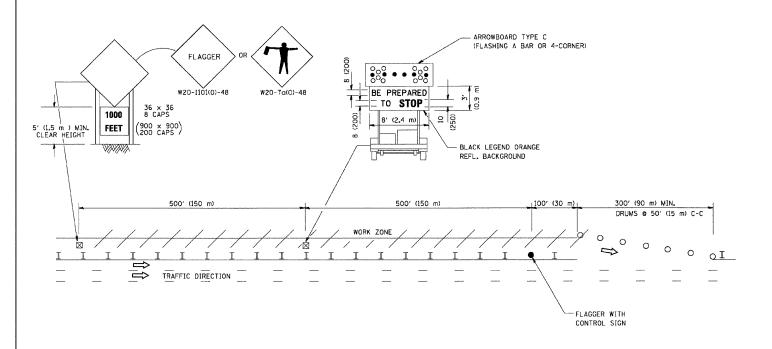
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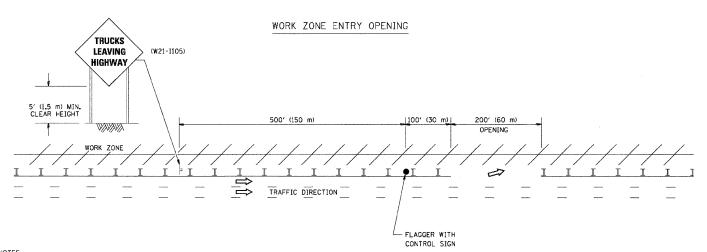


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

CONTRACT NO. RTE. SECTION COUNTY TOTAL SHEET NO. COOK 22 17 94/90 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

WORK ZONE EXIT OPENING





- 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 DWS JAF ILLINOIS DEPARTMENT OF TRANSPORTATION DATE 8/98 4/03 2/06 1/07 SIGNING FOR FLAGGING OPERATIONS SPB

AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD CHECKED BY

