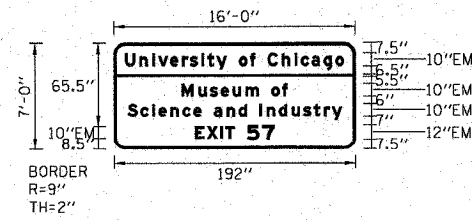


SIGN DETAIL



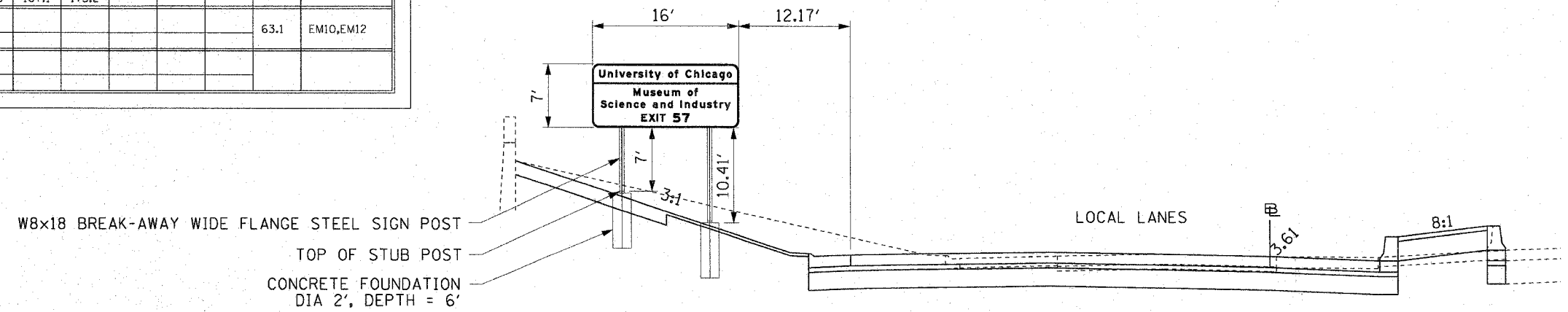
SIGN NUMBER	57 UC & MSI
WIDTH x HEIGHT	16'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR TOP PANEL: GREEN COLOR BOTTOM PANEL: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	301
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-IP) R-11				

DIMENSIONS ARE IN INCHES.TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)													LENGTH SERIES, SIZE		
U	n	I	v	e	r	s	I	t	y				(CONTINUED ON NEXT LINE)		
8.9	20.5	30.7	35.4	44.8	54.4	60.5	69.9	74.6	81.7	89.7					
(CONTINUATION OF PREVIOUS LINE)														174.1	EM10/7.5
M	u	s	e	u	m									84.1	EM10/7.5
53.9	67.2	76.4	85	94.5	104.7	115.3	125.4	134							
S	c	I	e	n	c	e							(CONTINUED ON NEXT LINE)		
10.7	21.1	30.5	35.5	45	54.5	63.2	69.6	79.6	89.8	99.3	105.6				
(CONTINUATION OF PREVIOUS LINE)														170.5	EM10/7.5
E	X	I	T	5	7									63.1	EM10,EM12
64.4	73.9	84.5	88.6	105.9	118										



MOUNTING DETAIL
PROPOSED GROUND MOUNT
S.B. I-90/94 STA. 3509+00
LOOKING SOUTH

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SIGN PANEL AND PLACEMENT DETAILS
PROPOSED GROUND MOUNTED SIGN PANELS

SCALE: NONE
DATE: June 9, 2006

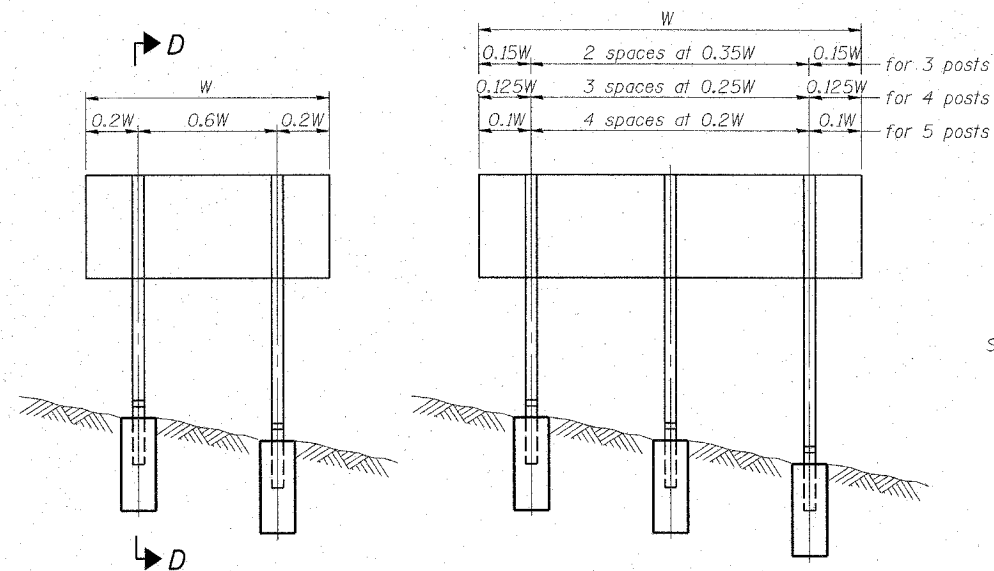
DRAWN BY: SWANG
CHECKED BY: RMG

GM-1

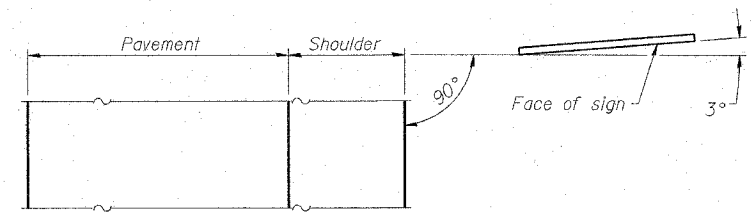
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6/7/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

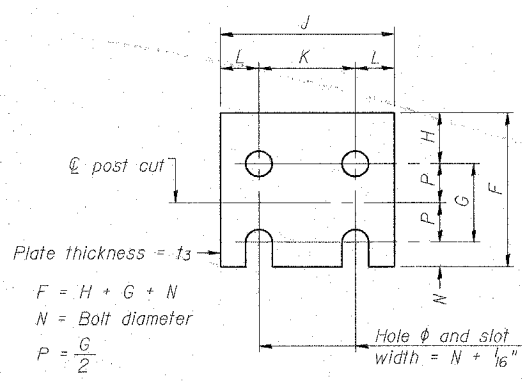
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	588	302
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* (B18, ETC. 2324.6-1P) R-11				62303



ELEVATION

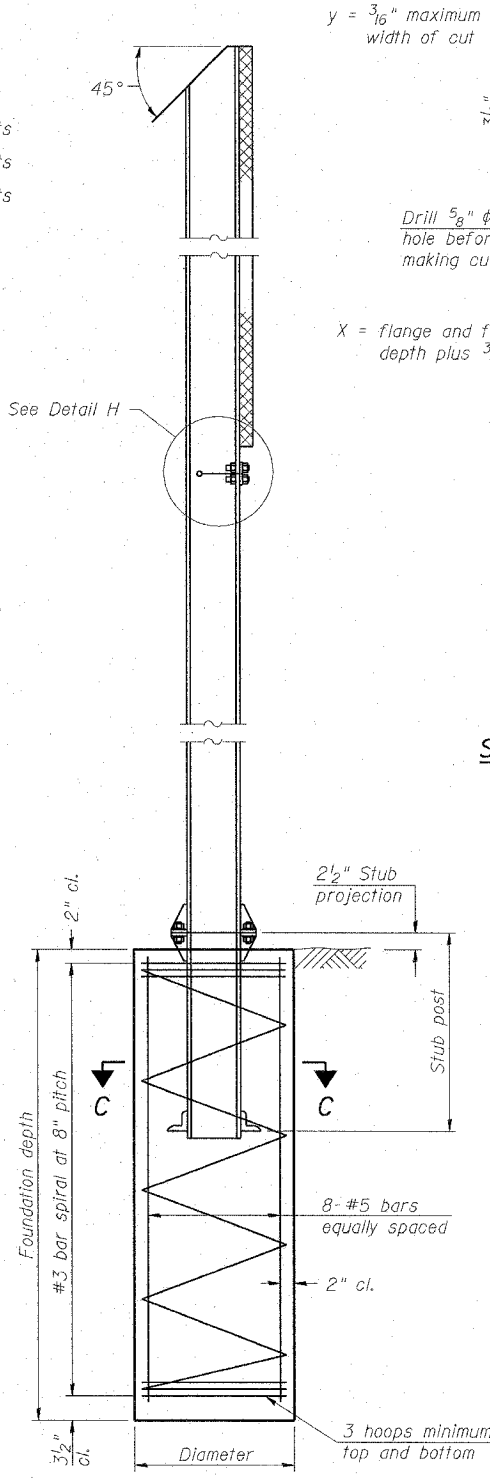


LOCATION SKETCH

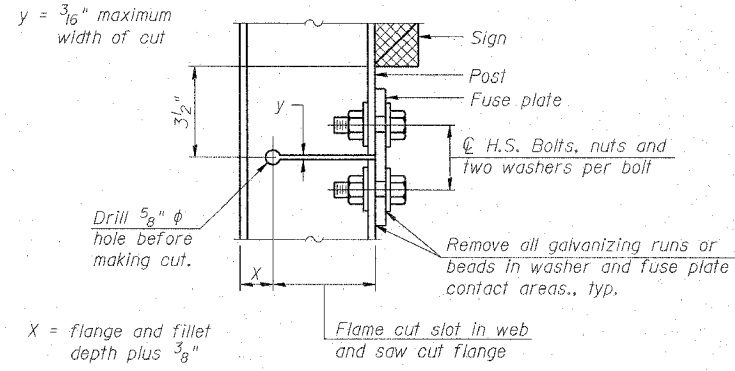


FUSE PLATE DETAIL
(Install with notches down.)

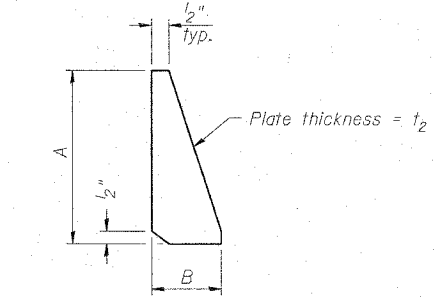
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"



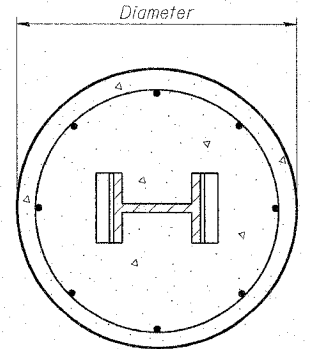
SECTION D-D



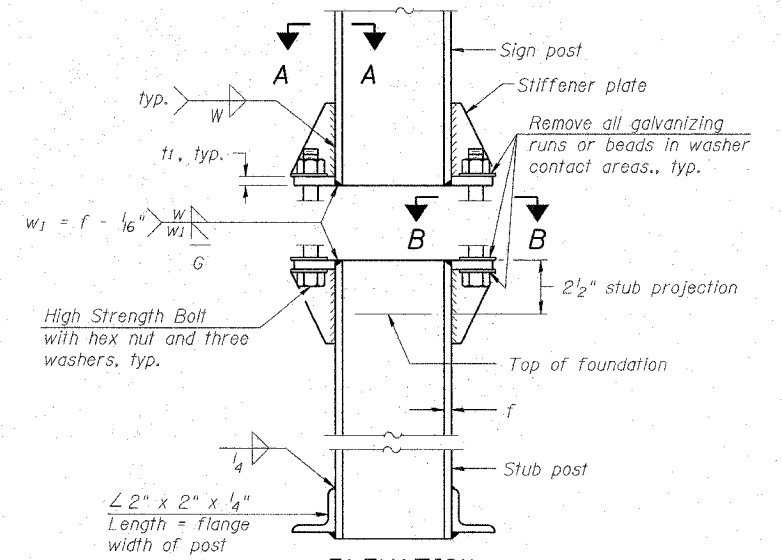
DETAIL H



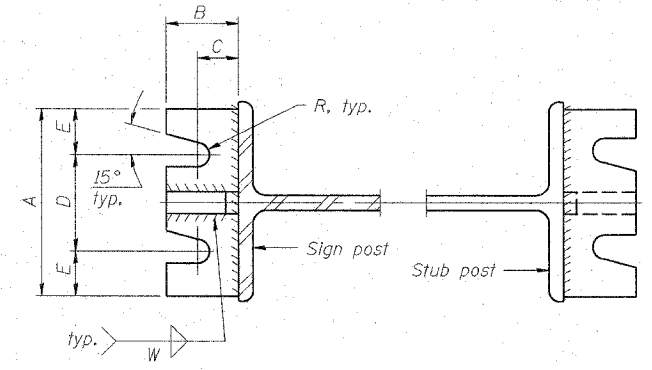
STIFFENER PLATE DETAIL
(See table for dimensions.)



SECTION C-C

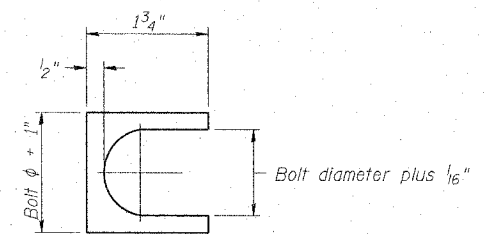


ELEVATION
SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(F)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
PROPOSED IMPROVEMENT

DESIGNED	JSS
CHECKED	MJP
DRAWN	JSS
CHECKED	MJP

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

I:\4893 AM
 6/7/2006
 P:\4893\CHN8-Chrs 18 & 19\STF\CHN 19\Signing\GIS\55190022\Adon

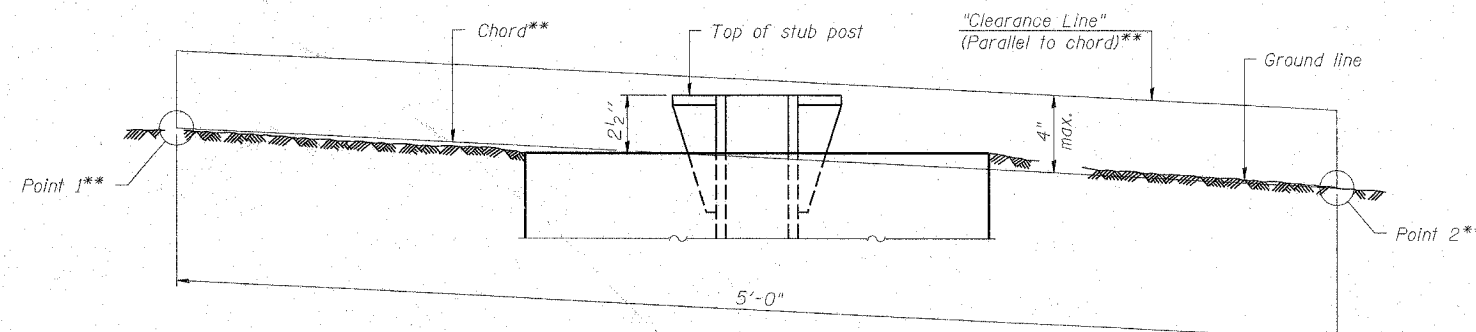
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94	*	COOK	588	303
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* (1616, ETC, 2324.6-1P) R-11				62303

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃
	Diameter	* Minimum Depth	Concrete cu. yds. (1)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)															
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	4"	2 1/4"	7/8"	1 1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/2"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/2"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE															
	Sign Depth															
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"			
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"
W16x45	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- (1) Quantity includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

DESIGNED	JSS
CHECKED	MJP
DRAWN	JSS
CHECKED	MJP

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

BAW-A-2 1-7-05

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
PROPOSED IMPROVEMENT

(Sheet 2 of 2)

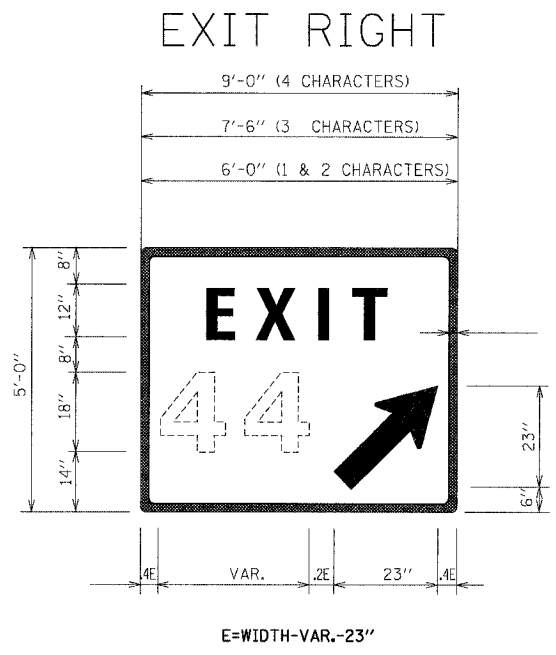
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6/7/2006 11:46:28 AM

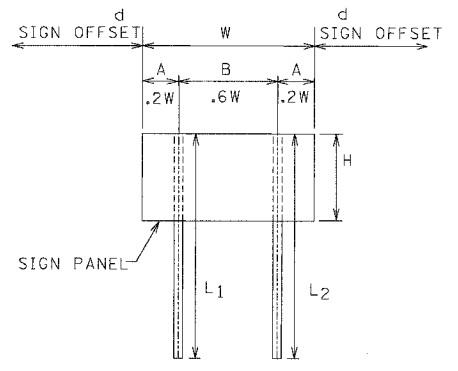
ROUTE	SIGN NO.	STATION	SIGN PANEL		NO.	SIZE	POSTS						DISTANCES			QUANTITIES		REMARKS				
			H	W			L ₁	L ₂	L ₃					A	B	C	STRUCT. STEEL LBS.		CONCRETE CU. YDS.			
I-90/94	PS04-02	3537+00±	5	9	2	6"X6" WOOD	18	18	-						1.80	5.40	-	-	-	EXIT "56B"		
	PS05-01	3562+73±	5	9	2	6"X6" WOOD	18	18	-						1.80	5.40	-	-	-	EXIT "56A"		
	PS07-01	3603+80±	5	9	2	6"X6" WOOD	18	18	-						1.80	5.40	-	-	-	EXIT "55B"		
	PS07-04	3616+80±	5	9	2	6"X6" WOOD	18	18	-						1.80	5.40	-	-	-	EXIT "55A"		

NOTES:

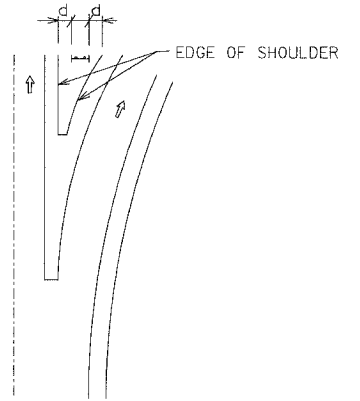
- CONTRACTOR AND RESIDENT ENGINEER SHALL DETERMINE EXACT LENGTHS REQUIRED BEFORE ORDERING SUPPORTS.
- RESIDENT ENGINEER TO DETERMINE FINAL PLACEMENT OF EXIT SIGNS.
- THE MINIMUM CLEAR HEIGHT IS 7'-0".



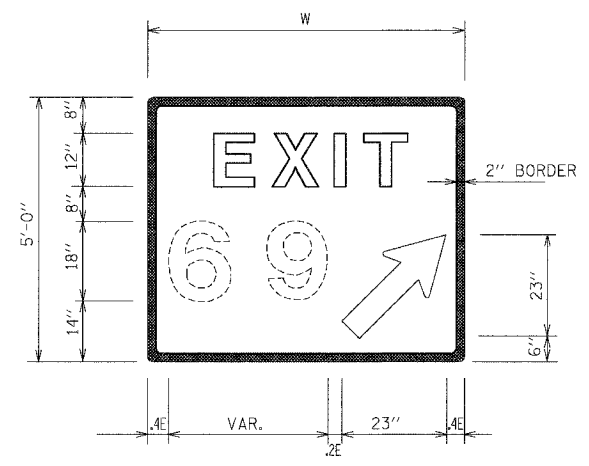
E=WIDTH-VAR.-23"



TYPICAL 2 POST EXIT PANEL



GORE SIGNS



DIGITS	W	d
1 OR 2	6'-0"	2'-0"
3	7'-6"	1'-3"

E=WIDTH-VAR.-23"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)
 GROUND MOUNT EXIT SIGN

SCALE: NONE
 DATE: 06/09/06

DRAWN BY: RV
 CHECKED BY: MSA

GM-4

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
 Date 8/14/03
 ROUTE F.A.I. 90/94 / 1-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY A.P.
 SECTION 2122-921PT1 1.2 & 2122-921PT1 1.2-4 LOCATION Chicago, Illinois
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P O S T	B L C S	U M S	M O S	Surface Water Elev. ft		D B U M	E L C S	M O S
					ft	ft			
SIGN TRUSSES	T W S	H S	O U T	T W S	H S	O U T	T W S	H S	O U T
BORING NO. STB-28									
Station 149350.90									
Offset -110.441 (SBB)									
Ground Surface Elev. 6.51									
Asphlt. 6									
Coarse sand and gravel (FILL)									
Sub Base									
Medium Dense Brown, medium SAND									
Very Stiff Gray CLAY									
Hard Gray SILTY CLAY LOAM, trace gravel									
Hard Gray SILTY CLAY LOAM, trace gravel									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM 1208) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
 Date 8/27/03
 ROUTE F.A.I. 90/94 / 1-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY A.P.
 SECTION 2122-921PT1 1.2 & 2122-921PT1 1.2-4 LOCATION Chicago, Illinois
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P O S T	B L C S	U M S	M O S	Surface Water Elev. ft		D B U M	E L C S	M O S
					ft	ft			
SIGN TRUSSES	T W S	H S	O U T	T W S	H S	O U T	T W S	H S	O U T
BORING NO. STB-29									
Station 149332.13									
Offset -64.3241 (SBB)									
Ground Surface Elev. 7.07									
Asphlt. 4									
Sub Base									
Medium Dense Brown, coarse SAND									
Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM									
Very Dense Gray SILT									
Very Stiff to Hard Gray CLAY									
Hard Gray SILTY CLAY LOAM / SILTY LOAM									
Hard Gray SILTY CLAY LOAM									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM 1208) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
 Date 8/12/03
 ROUTE F.A.I. 90/94 / 1-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY A.P.
 SECTION 2122-921PT1 1.2 & 2122-921PT1 1.2-4 LOCATION Chicago, Illinois
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P O S T	B L C S	U M S	M O S	Surface Water Elev. ft		D B U M	E L C S	M O S
					ft	ft			
SIGN TRUSSES	T W S	H S	O U T	T W S	H S	O U T	T W S	H S	O U T
BORING NO. STB-35									
Station 151146.21									
Offset -149.861 (SBB)									
Ground Surface Elev. 10.60									
Asphlt. 4									
Clay, trace silt and sand (FILL)									
Medium Dense Brown, fine SAND									
Loose to Very Loose Gray SILTY LOAM, trace sand									
Very Stiff Gray CLAY, trace gravel									
Very Stiff Gray CLAY, trace gravel									
Hard Gray SILTY CLAY LOAM									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM 1208) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG Page 1 of 1
 Date 8/28/03
 ROUTE F.A.I. 90/94 / 1-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY A.P.
 SECTION 2122-921PT1 1.2 & 2122-921PT1 1.2-4 LOCATION Chicago, Illinois
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P O S T	B L C S	U M S	M O S	Surface Water Elev. ft		D B U M	E L C S	M O S
					ft	ft			
SIGN TRUSSES	T W S	H S	O U T	T W S	H S	O U T	T W S	H S	O U T
BORING NO. STB-36									
Station 151142.51									
Offset -84.951 (SBB)									
Ground Surface Elev. 6.97									
Asphlt. 6									
Crushed Stone, Sub Base and Sand (FILL)									
Very Dense Brown, coarse SAND, with gravel									
Very Stiff Gray CLAY									
Very Stiff to Hard Gray CLAY LOAM									
Hard Gray SILTY CLAY LOAM									
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM 1208) BBS, from 137 (Rev. 8-99)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	305
STA. TO STA.		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

CTE | AECOM

REVISIONS	
NAME	DATE

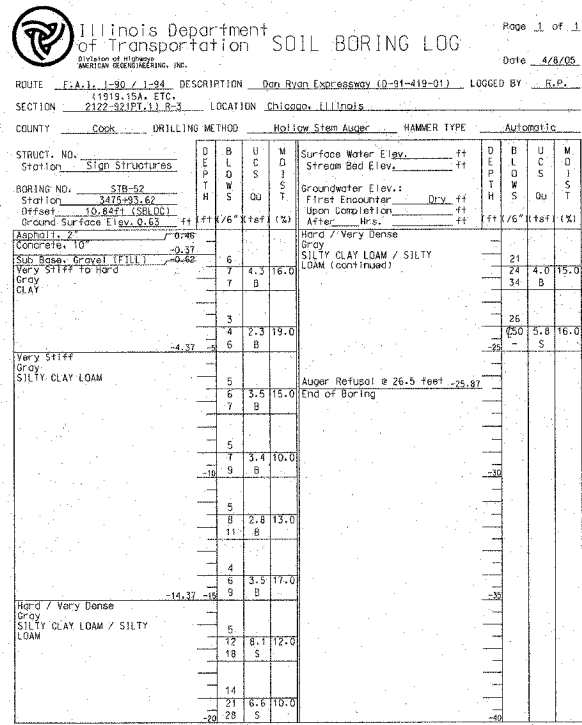
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SOIL BORING LOGS FOR
 SIGN STRUCTURE FOUNDATIONS

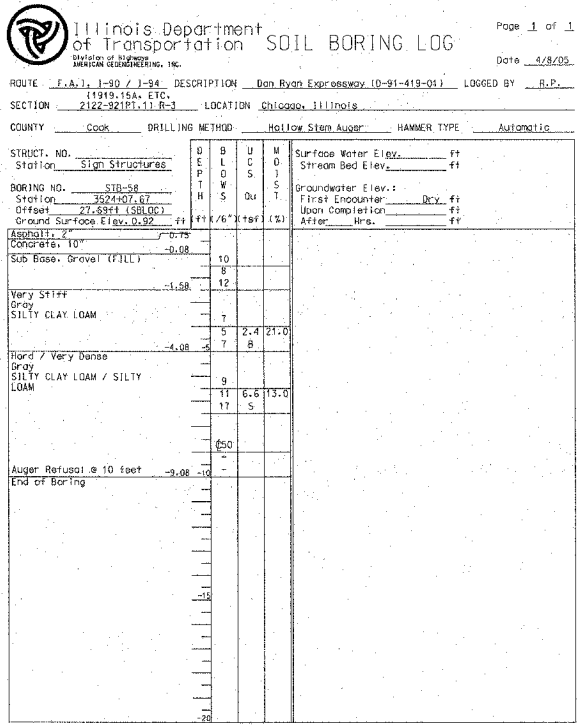
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 DATE: June 9, 2006 CHECKED BY: MJP

SB-1
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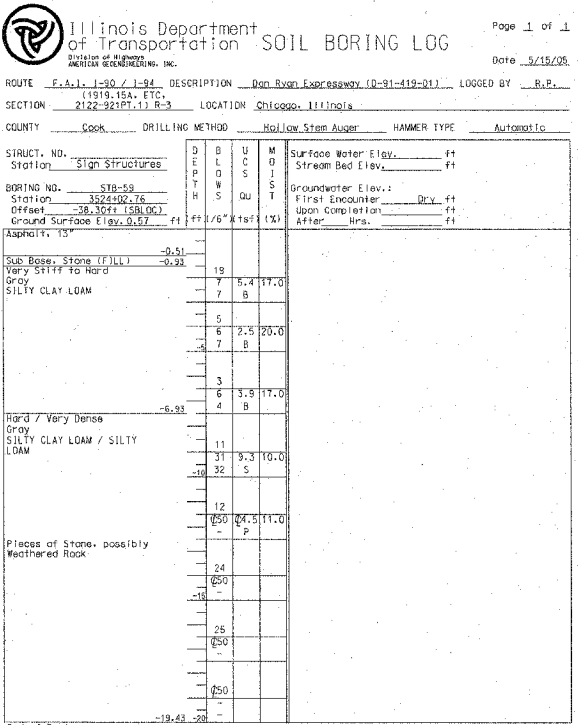
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	306
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



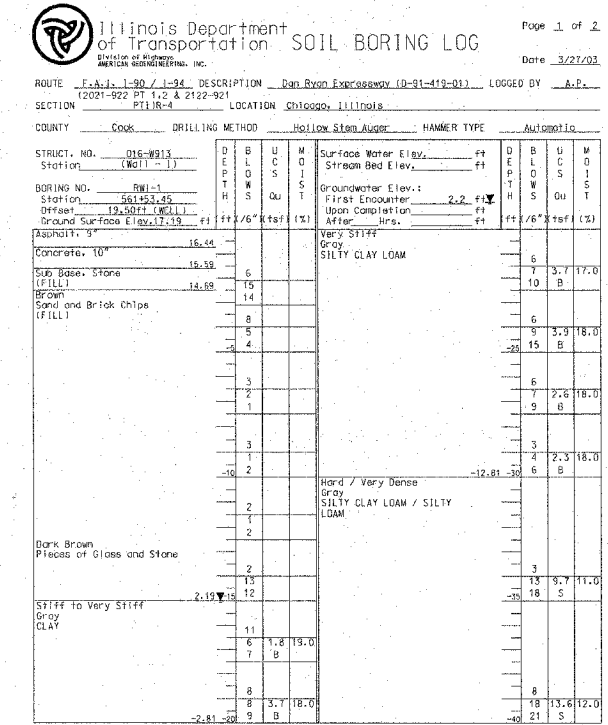
The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1206) 65s. from 137 (Rev. 8-99)



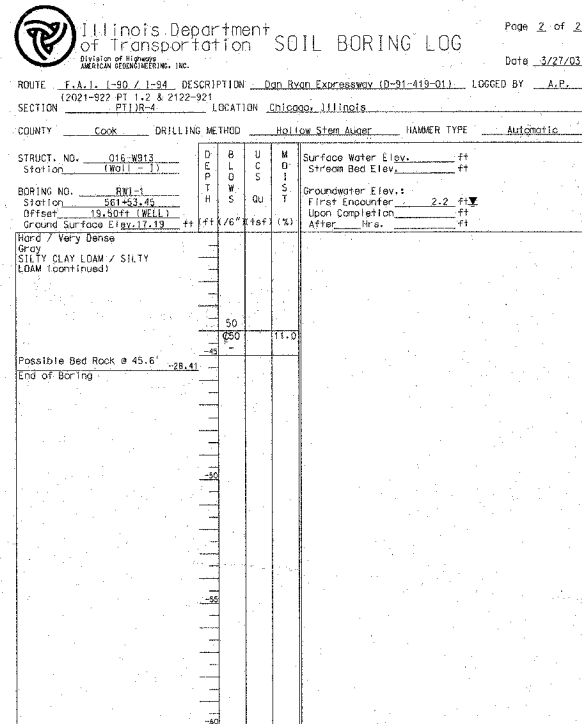
The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1206) 65s. from 137 (Rev. 8-99)



The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1206) 65s. from 137 (Rev. 8-99)



The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1206) 65s. from 137 (Rev. 8-99)



The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM 1206) 65s. from 137 (Rev. 8-99)

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SOIL BORING LOGS FOR
 SIGN STRUCTURE FOUNDATIONS

SCALE: NONE
 DATE: June 9, 2006

DRAWN BY: JSS
 CHECKED BY: MJP

SB-2
 6/7/2006 12:23:49 PM

Everest Engineering Company
STRUCTURE BORING LOG
Page 1 of 1
Date 8/25/03

ROUTE FAI 9094 DESCRIPTION DAN RYAN EXPRESSWAY
SECT. 31ST STREET TO 47TH STREET STRUCT. NO. DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION OVERHEAD SIGN STRUCTURE S. TWP. 39 N., RNG. 14 E.

Boring No. OVHSB1 Station 3532+01 (SB LOCAL) Offset 40 FT. OF SB LOCAL BL
Surface Elev. 1.10 ft

DEPTH	B	L	QU	W	Surface Water Elev. when drilling at Completion	DEPTH	B	L	QU	W
H	W	O	tsf	%	Hrs.	H	W	O	tsf	%
0.8										
3			6							
3										
3										
-1.9										
2		0.5	23							
2		B								
3										
3										
2		1.2	22							
3		B								
3										
3										
1		1.2	18							
3		B								
3										
3										
0		1.1	22							
2		B								
3										
3										
-11.9										
5		2.7	12							
8		B								
9										
-14.4										
11			14							
34										
50'2"										
50'4"										
30										
-18.4										
31			9							
36										
50'1"										
-21.9										
42			5							
50'6"										
50										

Surface Water Elev.: _____
Groundwater Elev. when drilling at Completion: _____ Hrs. _____

END OF BORING (AUGER REFUSAL) -28.4

SPT (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Everest Engineering Company
STRUCTURE BORING LOG
Page 1 of 1
Date 8/25/03

ROUTE FAI 9094 DESCRIPTION DAN RYAN EXPRESSWAY
SECT. 31ST STREET TO 47TH STREET STRUCT. NO. DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION OVERHEAD SIGN STRUCTURE S. TWP. 39 N., RNG. 14 E.

Boring No. OVHSB2 Station 3542+17 (SB LOCAL) Offset 56 FT. OF SB LOCAL BL
Surface Elev. 5.90 ft

DEPTH	B	L	QU	W	Surface Water Elev. when drilling at Completion	DEPTH	B	L	QU	W
H	W	O	tsf	%	Hrs.	H	W	O	tsf	%
5.7										
4.9										
9			6							
11										
14										
4			8							
4										
7										
0.4										
2			20							
2										
5										
-2.1										
0		0.5	24							
2		B								
1										
1										
2		0.4	26							
2		B								
2										
0		0.5	24							
1		B								
1										
-16										
2		1.4	18							
4		B								
4										
5										
14			14							
25										
32										
-17.1										
6		2.9	12							
9		B								
11										
15			10							
23										
25										
24										

Surface Water Elev.: _____
Groundwater Elev. when drilling at Completion: _____ Hrs. _____

END OF BORING -24.1

SPT (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Everest Engineering Company
STRUCTURE BORING LOG
Page 1 of 1
Date 8/22/03

ROUTE FAI 9094 DESCRIPTION DAN RYAN EXPRESSWAY
SECT. 31ST STREET TO 47TH STREET STRUCT. NO. DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION OVERHEAD SIGN STRUCTURE S. TWP. 39 N., RNG. 14 E.

Boring No. OVHSB8 Station 3600+58 (SB LOCAL) Offset 67 FT. OF SB LOCAL BL
Surface Elev. 9.40 ft

DEPTH	B	L	QU	W	Surface Water Elev. when drilling at Completion	DEPTH	B	L	QU	W
H	W	O	tsf	%	Hrs.	H	W	O	tsf	%
6.4										
4			11							
9										
10										
3			15							
6										
9										
3.9										
2			26							
2										
2										
0			27							
1										
1										
-1.1										
0		1.6	22							
1		B								
4										
2		1.5	23							
3		B								
3										
-28.6										
0		0.5	26							
2		B								
3										
0		0.5	22							
1		B								
3										
0		0.4	25							
1		B								
1										
0		0.2	24							
1		B								
2										

Surface Water Elev.: _____
Groundwater Elev. when drilling at Completion: _____ Hrs. _____

END OF BORING -30.0

SPT (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Everest Engineering Company
STRUCTURE BORING LOG
Page 1 of 1
Date 8/21/03

ROUTE FAI 9094 DESCRIPTION DAN RYAN EXPRESSWAY
SECT. 31ST STREET TO 47TH STREET STRUCT. NO. DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION OVERHEAD SIGN STRUCTURE S. TWP. 39 N., RNG. 14 E.

Boring No. OVHSB10 Station 3609+74 (SB LOCAL) Offset 44 FT. OF SB LOCAL BL
Surface Elev. -1.20 ft

DEPTH	B	L	QU	W	Surface Water Elev. when drilling at Completion	DEPTH	B	L	QU	W
H	W	O	tsf	%	Hrs.	H	W	O	tsf	%
-1.7										
5			4							
9										
9										
3			14							
8			B							
8										
6			6							
8										
11			22							
13			B							
-6.7										
0			25							
2			B							
1										
-10										
0		0.4	22							
1		B								
2										
0		0.2	26							
1		B								
1										
-16										
0		0.2	25							
2		B								
2										
1		0.4	28							
2		B								
2										
-20										
0		0.3	25							
1		B								
2										
3			21							
3			B							
50										

Surface Water Elev.: _____
Groundwater Elev. when drilling at Completion: _____ Hrs. _____

END OF BORING -31.2

SPT (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Everest Engineering Company
STRUCTURE BORING LOG
Page 1 of 1
Date 8/21/03

ROUTE FAI 9094 DESCRIPTION DAN RYAN EXPRESSWAY
SECT. 31ST STREET TO 47TH STREET STRUCT. NO. DRILLED BY PATRICK DRILLING
COUNTY COOK LOCATION OVERHEAD SIGN STRUCTURE S. TWP. 39 N., RNG. 14 E.

Boring No. OVHSB11 Station 3616+48 (SB LOCAL) Offset 44 FT. OF SB LOCAL BL
Surface Elev. 2.10 ft

DEPTH	B	L	QU	W	Surface Water Elev. when drilling at Completion	DEPTH	B	L	QU	W
H	W	O	tsf	%	Hrs.	H	W	O	tsf	%
1.5										
8			4							
13										
15										
0			0.2							
0			B							
2										
-0.9										
3			11							
5										
2			23							
3			B							
-2										
3										
4										
2										
-5.9										
1		0.25	19							
1		B								
2										
-10										
0		0.4	22							
1		B								
1										
-35.9										
1		0.4	24							
1		B								
2										
-37.8										
1		0.4	24							
1		B								
2										
-20										
1		0.5	25							
1		B								
2										
-20										
0		0.2	27							

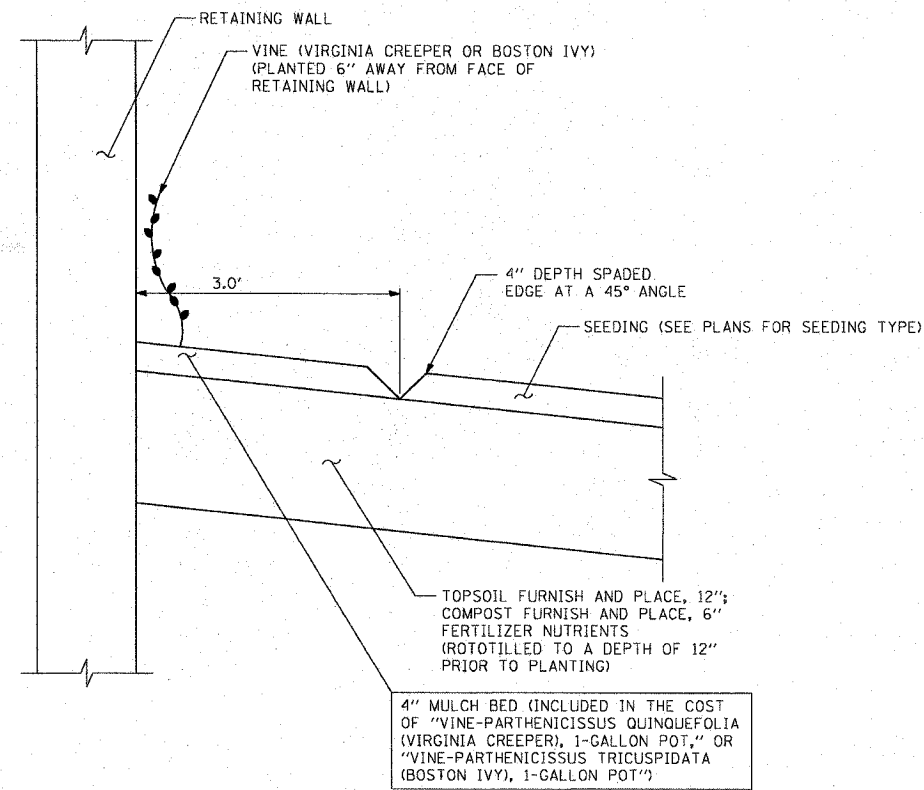
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	308
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

GENERAL PLAN NOTES - LANDSCAPING:

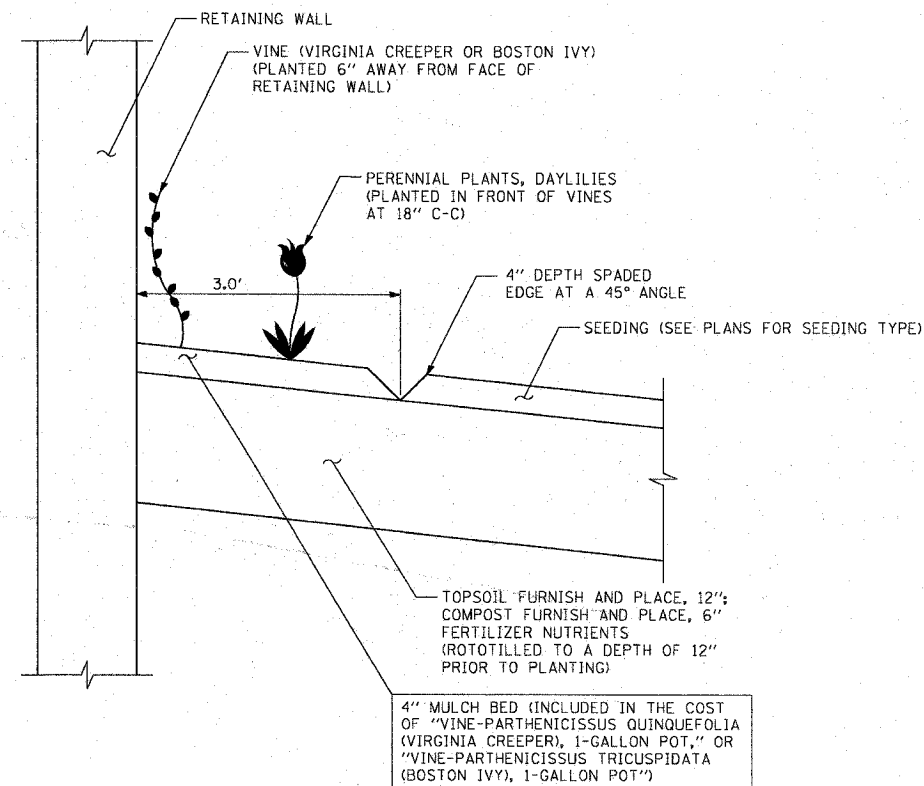
1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION 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.
3. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
4. AREAS TO BE SEEDED BETWEEN NOVEMBER 15 AND MARCH 31 SHALL REQUIRE DORMANT SEEDING, WHICH SHALL BE INCLUDED IN THE COST OF "SEEDING CLASS 2A," "SEEDING CLASS 4 (MODIFIED)," OR "SEEDING, CLASS 5A (MODIFIED)."
5. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4 AND 5 SHALL BE FROM APRIL 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
6. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO TOPSOIL PLACEMENT, SEEDING, AND PLANTING.

GENERAL PLAN NOTES - PLANTING BED:

7. SEE LANDSCAPING PLANS FOR SPECIFIC LOCATIONS AND QUANTITIES OF VINES, SHRUBS, AND DAYLILIES.
8. ALL COMPOST AND TOPSOIL AREAS SHALL BE THOROUGHLY ROTOTILLED TO A DEPTH OF 12" PRIOR TO PLANTING AND/OR SEEDING.
9. THE CONTRACTOR SHALL ORDER THE FOLLOWING PLANT MATERIAL IMMEDIATELY FOLLOWING EXECUTION OF THE CONTRACT TO ASSURE AVAILABILITY OF THE PLANT MATERIAL FOR SPRING PLANTING AT THE CONCLUSION OF THE CONTRACT:
 - VINE-PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON
 - VINE-PARTHENOCISSUS TRICUSPIDATA (BOSTON IVY), 1-GALLON
 - HEMEROCALLIS "STELLA D'ORO" (STELLA D'ORO DAYLILY), 1-GALLON
 - SHRUB, AESCULUS PARVIFLORA (BOTTLEBRUSH BUCKEYE), 2' HEIGHT, BALLED AND BURLAPPED.
 - SHRUB, RHUS AROMTICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 18" CONTAINER.
10. MULCH BED SHALL BE PLACED OVER ROTOTILLED COMPOST/TOPSOIL AS SHOWN IN THE PLANTING DETAILS AND ACCORDING TO IDOT STANDARD SPECIFICATION 253.11, EXCEPT THAT NO WEED BARRIER FABRIC IS REQUIRED. COST OF MULCH COVER IS INCLUDED WITH PAYMENT FOR THE VINES, DAYLILIES, AND SHRUBS.
11. PRE-EMERGENT GRANULAR HERBICIDE SHALL BE PLACED IN MULCHED BEDS ACCORDING TO THE SPECIAL PROVISION.
12. FERTILIZER NUTRIENTS SHALL BE ADDED AND APPLIED TO THE VINE BEDS AT A 5:3:2 RATIO AS FOLLOWS:
 - NITROGEN FERTILIZER NUTRIENTS: 90 LBS/ACRE
 - PHOSPHORUS FERTILIZER NUTRIENTS: 54 LBS/ACRE
 - POTASSIUM FERTILIZER NUTRIENTS: 36 LBS/ACRE
 THIS FERTILIZER SHALL BE TILLED AND CULTIVATED INTO THE SOIL TO A DEPTH OF 12"



VINE PLANTING DETAIL



VINE AND DAYLILY PLANTING DETAIL

SCHEDULE OF LANDSCAPE ITEMS

PAY ITEM DESCRIPTION	COMMON NAME	SIZE	SPACING	UNIT	TOTAL
VINE - PARTHENOCISSUS QUINQUEFOLIA, 1- GALLON POT	VIRGINIA CREEPER	1-GALLON	3' C-C	EACH	743
VINE - PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	1-GALLON	3' C-C	EACH	891
SHRUB, RHUS AROMTICA GRO-LOW	GRO-LOW FRAGRANT SUMAC	18" CONTAINER	3' C-C" STAGGERED	EACH	63
SHRUB, AESCULUS PARVIFLORA	BOTTLEBRUSH BUCKEYE	2' HEIGHT - BALLED AND BURLAPPED	3' C-C" STAGGERED	EACH	176
PERENNIAL PLANTS, DAYLILIES	STELLA D'ORO	1-GALLON	18" C-C"	UNITS	6.50

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
NAME	DATE	
		LANDSCAPING NOTES AND DETAILS

SCALE: NONE DRAWN BY: PHP
DATE: June 9, 2006 CHECKED BY: RMG

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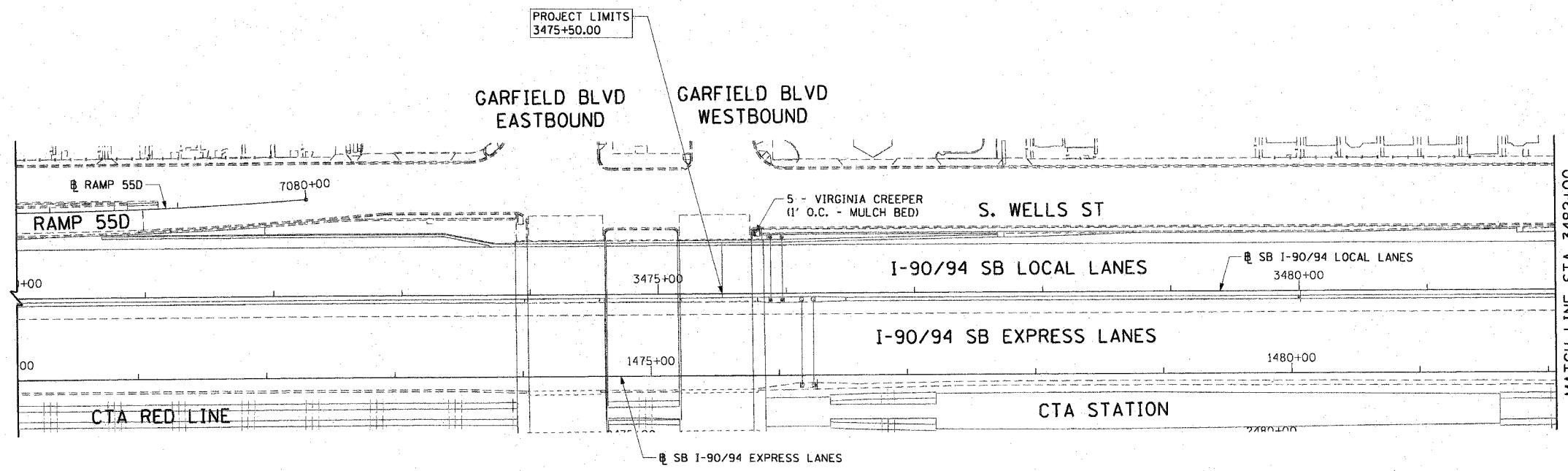
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	309
STA. 3475+50		TO STA. 3482+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



LEGEND:

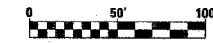
- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
COMPOST FURNISH AND PLACE, 6"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
COMPOST FURNISH AND PLACE, 6"
SEEDING, CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
COMPOST FURNISH AND PLACE, 6"
SEEDING, CLASS 4A (MODIFIED)
SEEDING, CLASS 5 (MODIFIED)
EROSION CONTROL BLANKET
- PERENNIAL PLANTS, IVY OR SHRUBS
TOPSOIL FURNISH AND PLACE, 12"
COMPOST FURNISH AND PLACE, 6"
EROSION CONTROL BLANKET
- VINE

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NOTES:

1. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



LA-01

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**LANDSCAPING PLANS
AND DETAILS**

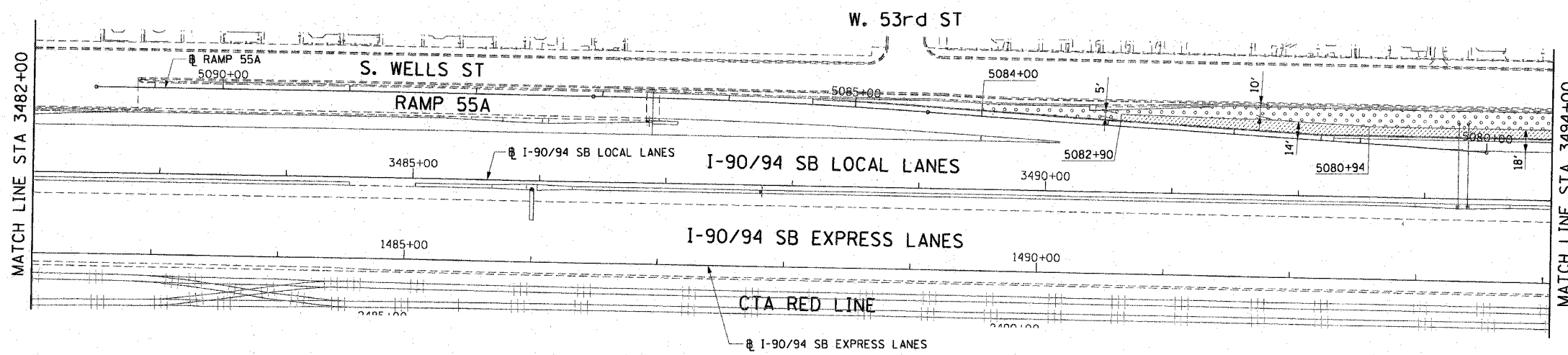
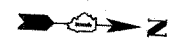
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DATE: June 9, 2006

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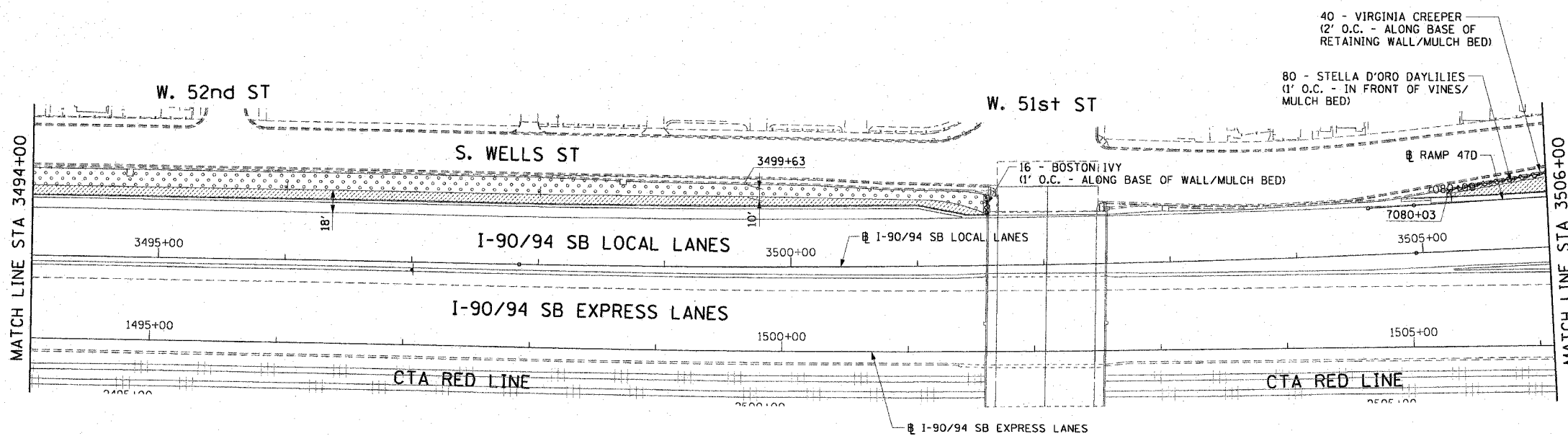
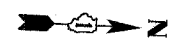
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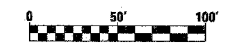
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	310
STA. 3482+00		TO STA. 3506+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



- LEGEND:**
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
 - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
 - VINE



- NOTES:**
- THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



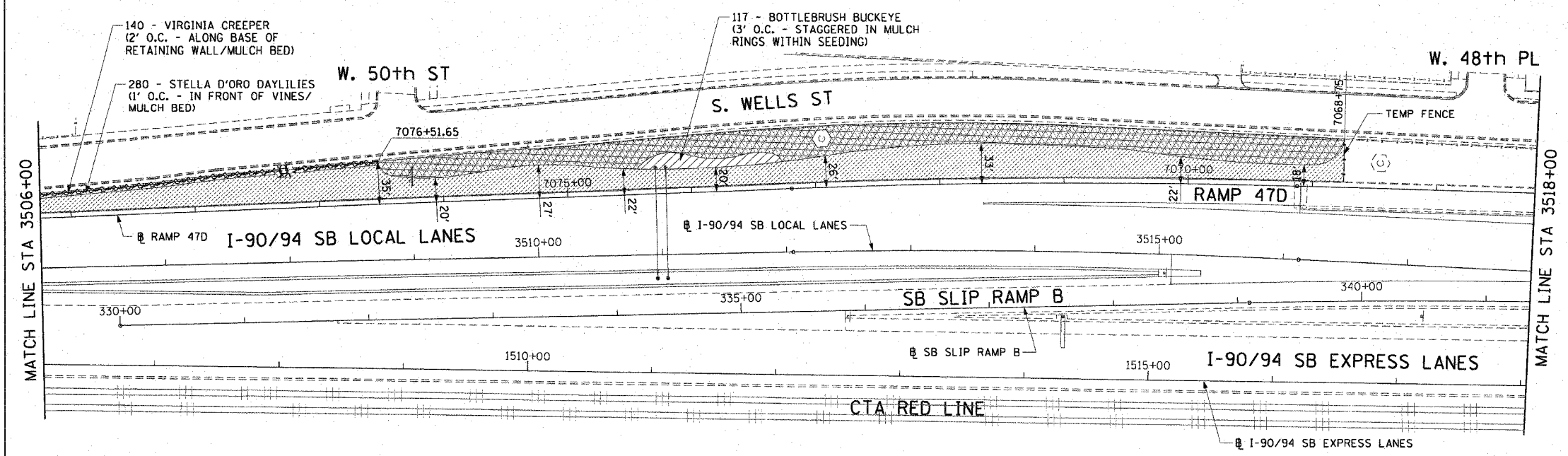
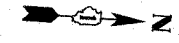
REVISIONS	
NAME	DATE

LA-02
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
LANDSCAPING PLANS AND DETAILS
 SCALE: 1"=50'
 DATE: June 9, 2006
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 CHECKED BY: RMG

CTE | AECOM

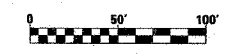
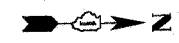
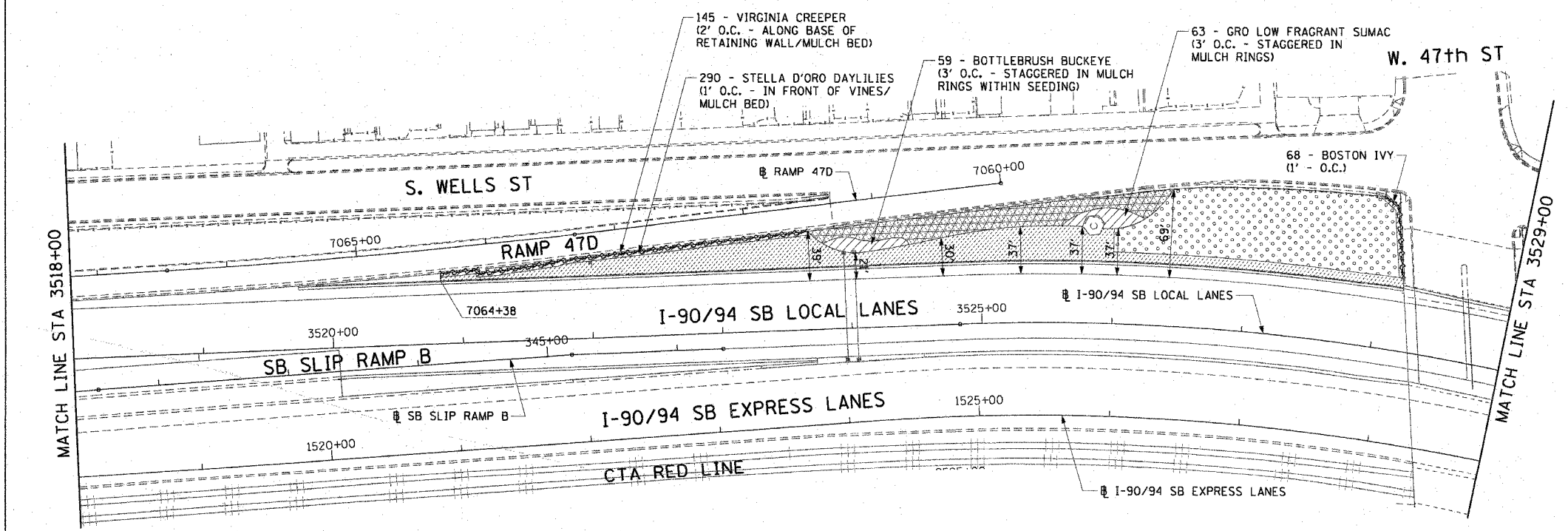
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	311
STA. 3506+00		TO STA. 3529+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



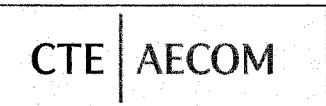
- LEGEND:**
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
 - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
 - VINE

- NOTES:**
1. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.
 2. IN THE AREA OF BUSHES TYPE 4 (MOD) AND 5A (MOD) SEEDING SHOULD BE USED.



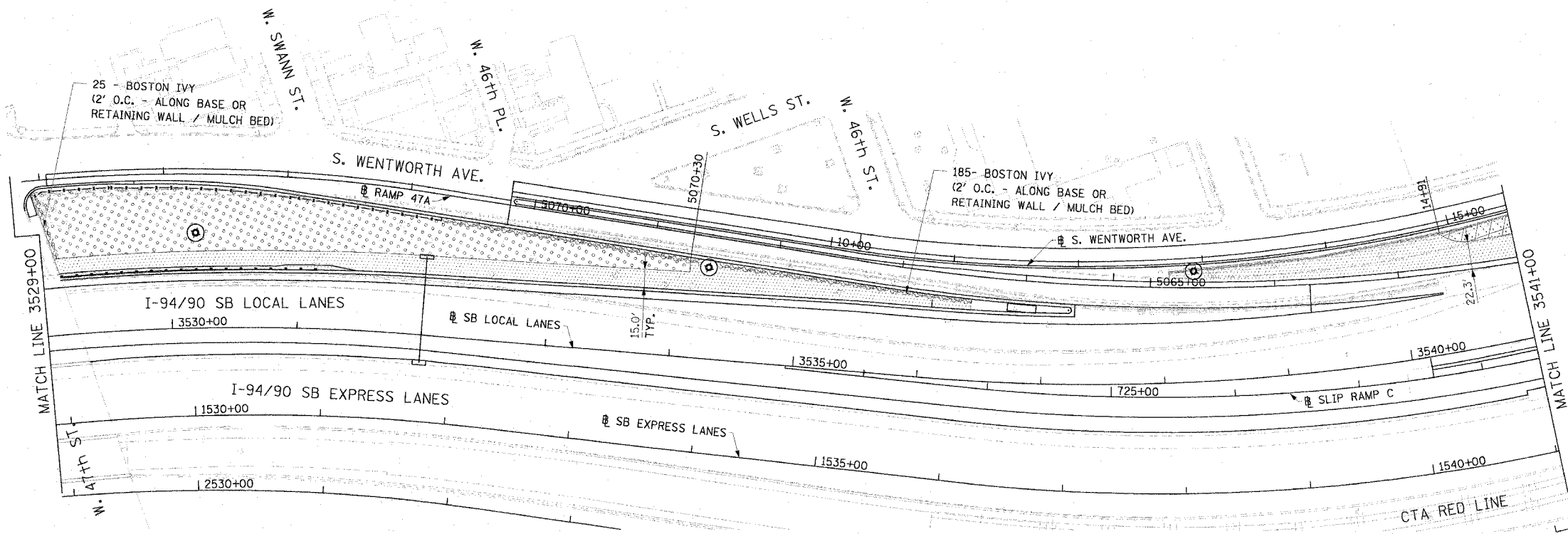
REVISIONS	
NAME	DATE

LA-03
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
LANDSCAPING PLANS AND DETAILS
 SCALE: 1"=50'
 DATE: June 9, 2006
 DRAWN BY: PHP
 CHECKED BY: RMG

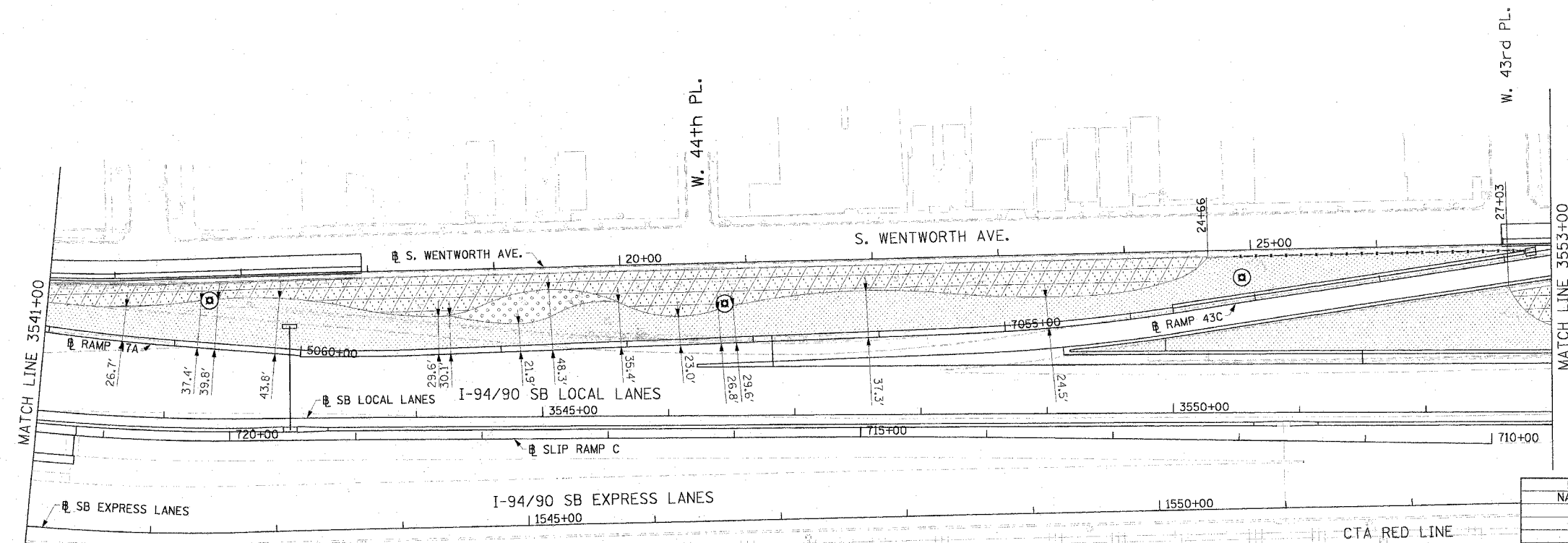


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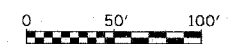
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	312
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



- LEGEND:**
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
 - PERENNIAL PLANTS, DAYLILIES
 - VINE



- LANDSCAPING NOTES:**
1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT 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.
 2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATES SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
 3. ALL SEEDING, CLASS 2A AREAS SHALL HAVE NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE EACH.
 4. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



LA-04

DLK
Civ. Design
The Fine Arts Building
410 South Michigan Avenue
Chicago, Illinois 60605
312.322.0911 fax 312.322.5324

REVISIONS	
NAME	DATE

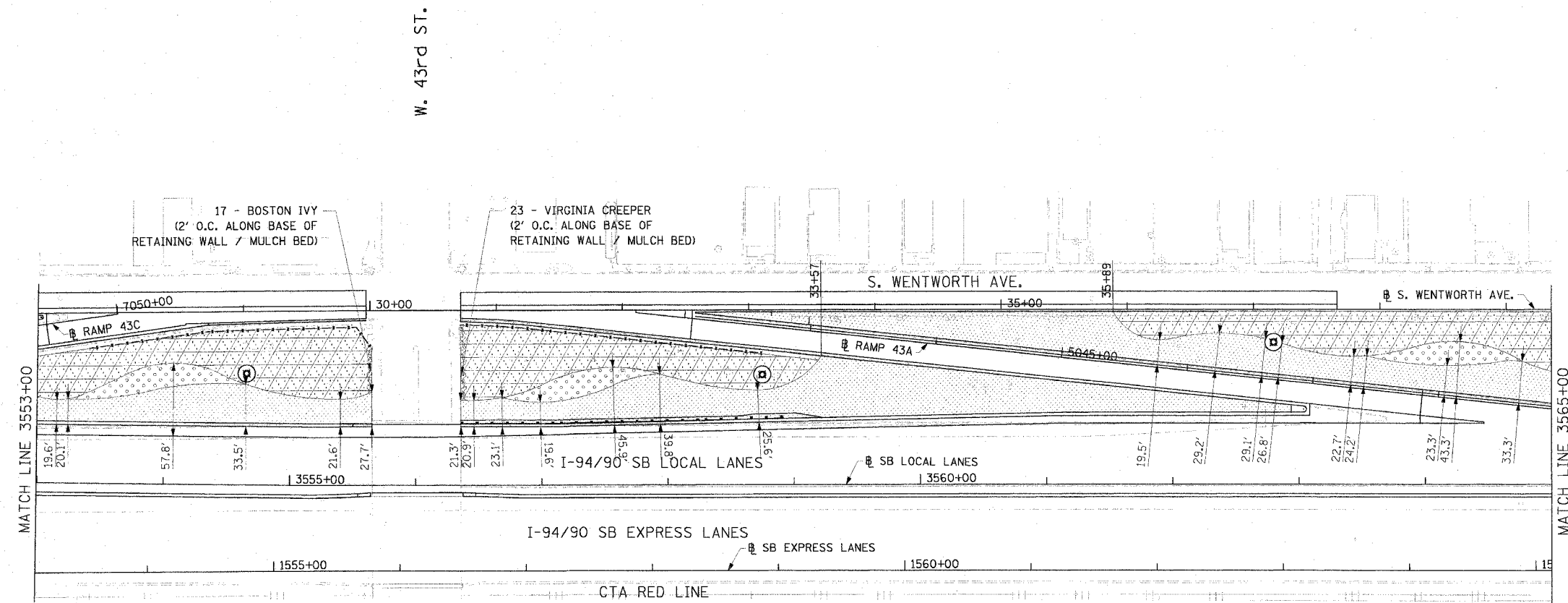
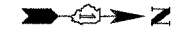
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

LANDSCAPING PLAN

SCALE: 1"=50'
DATE: June 9, 2006

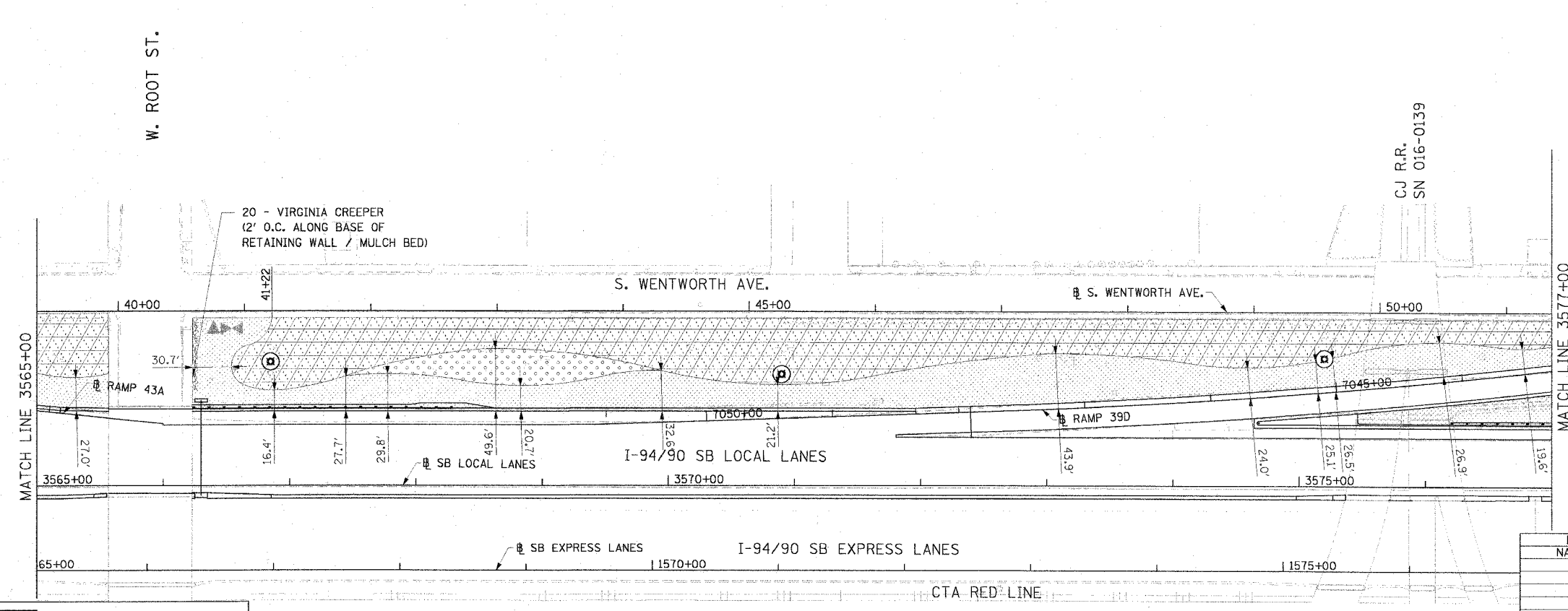
DRAWN BY: RPS
CHECKED BY: RCH

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	A	COOK	588	313
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



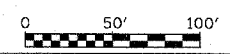
LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
- PERENNIAL PLANTS, DAYLILIES
- VINE



LANDSCAPING NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT 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.
2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATES SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
3. ALL SEEDING, CLASS 2A AREAS SHALL HAVE NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE EACH.
4. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



LA-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

LANDSCAPING PLAN

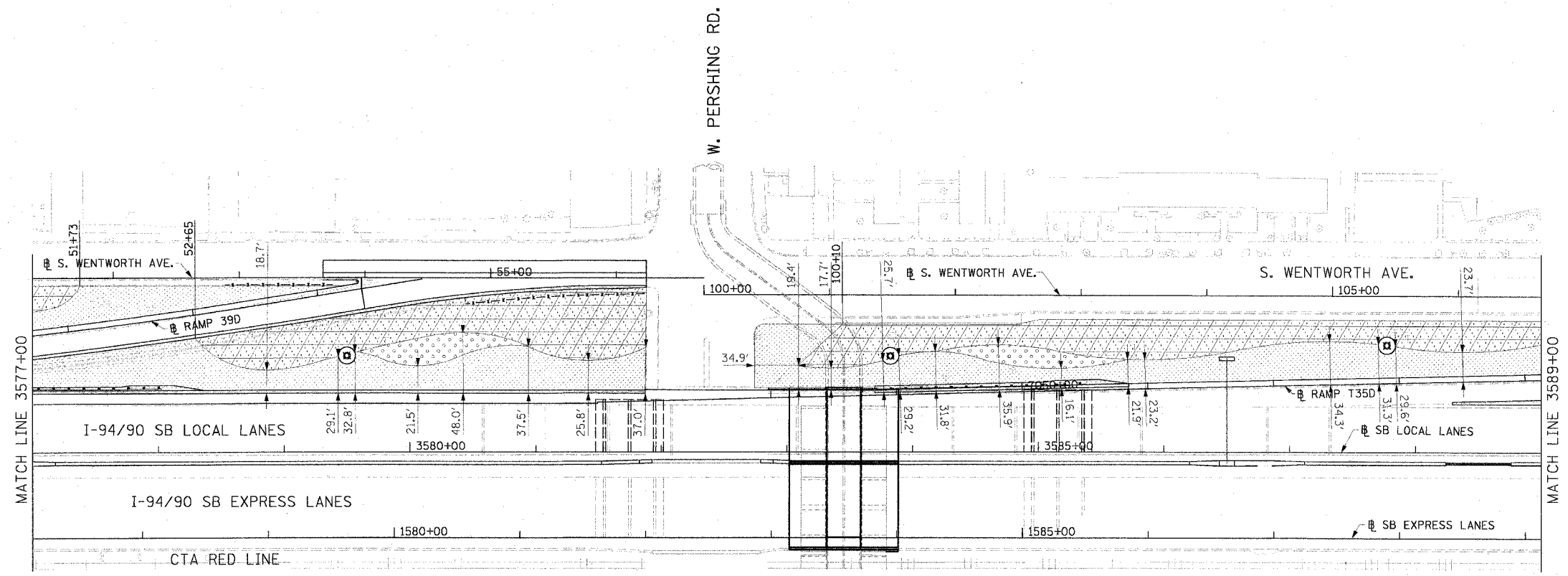
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 DATE: June 9, 2006
 DRAWN BY: RPS
 CHECKED BY: RCH

DLK
 Civic Design

The Fine Arts Building
 410 South Michigan Avenue
 Chicago, Illinois 60605
 312.322.0911 fax 312.322.5324

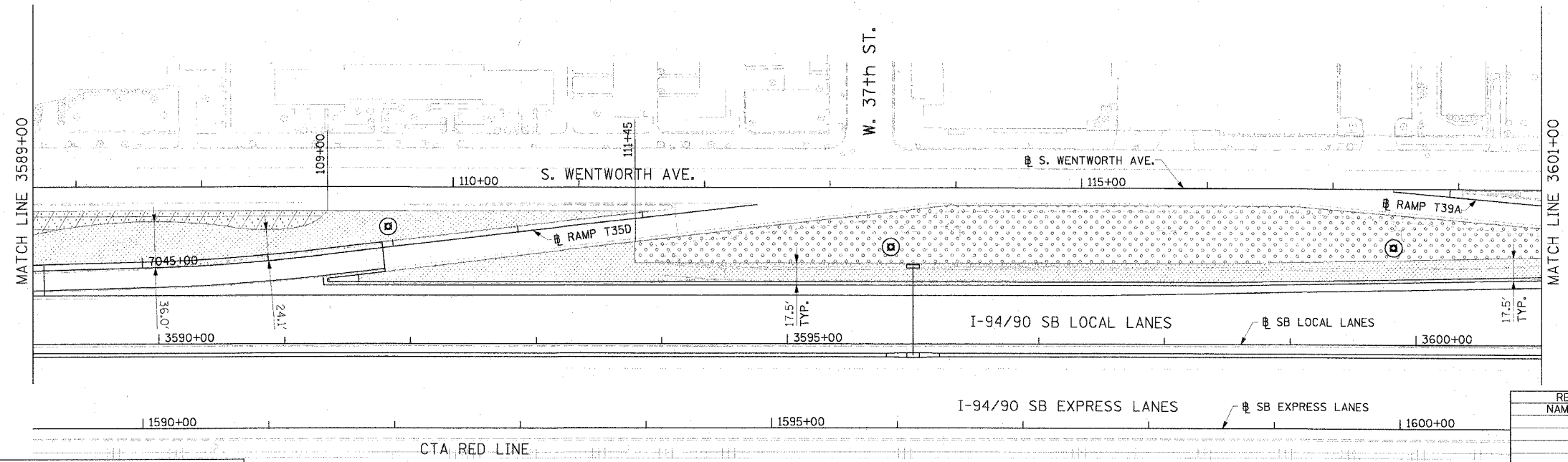
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	314
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



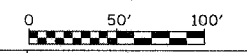
LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
- PERENNIAL PLANTS, DAYLILIES
- VINE



LANDSCAPING NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT 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.
2. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATES SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
3. ALL SEEDING, CLASS 2A AREAS SHALL HAVE NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE EACH.
4. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



LA-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
LANDSCAPING PLAN

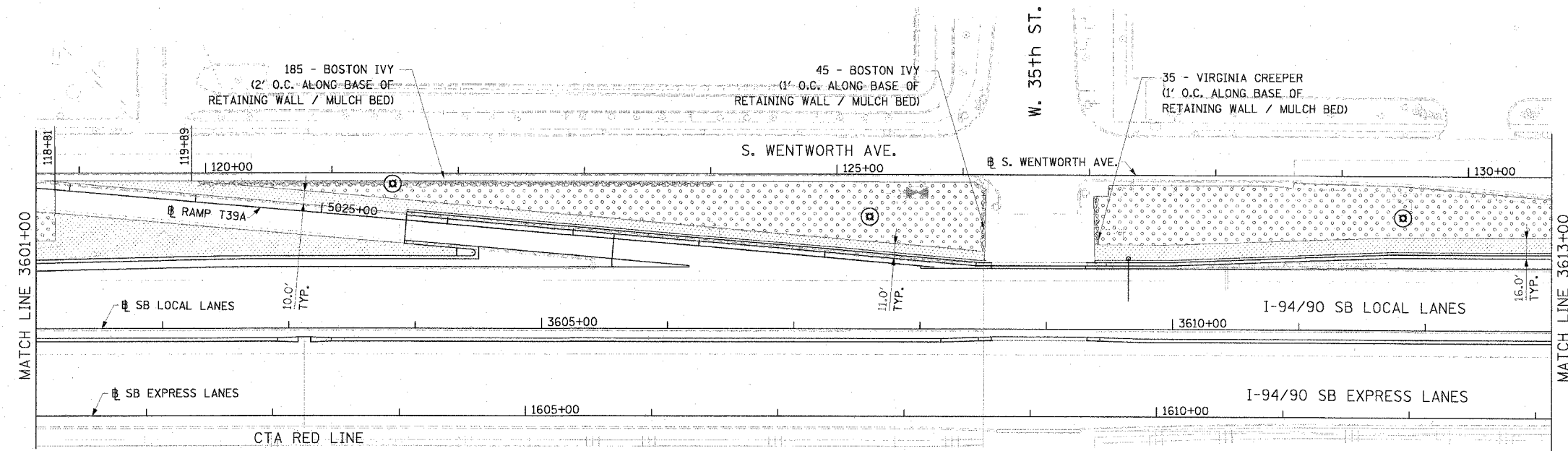
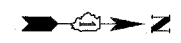
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 DATE: June 9, 2006

DRAWN BY: RPS
 CHECKED BY: RCH

DLK
 Civic Design

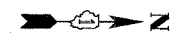
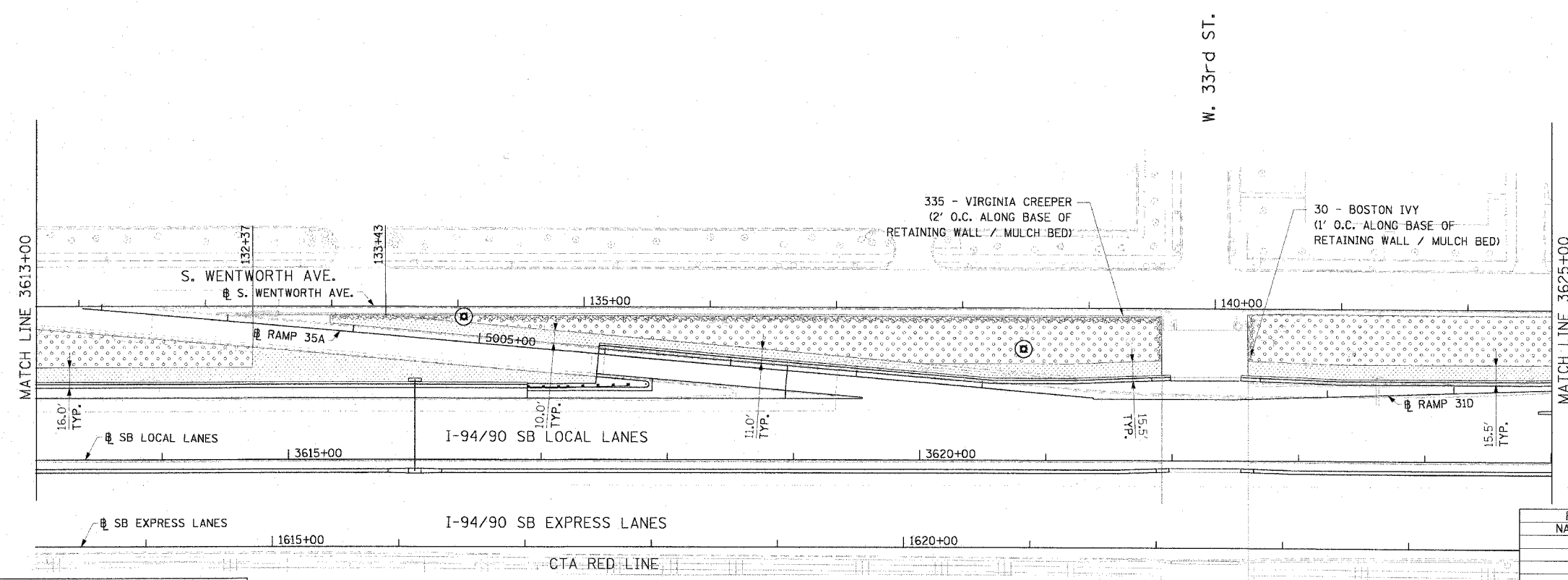
The Fine Arts Building
 410 South Michigan Avenue
 Chicago, Illinois 60605
 312.322.0911 fax 312.322.5324

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	315
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



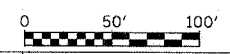
LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
- PERENNIAL PLANTS, DAYLILIES
- VINE



LANDSCAPING NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT 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.
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3. ALL SEEDING, CLASS 2A AREAS SHALL HAVE NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE EACH.
4. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



LA-07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

LANDSCAPING PLAN

SCALE: 1"=50'
 DATE: June 9, 2006

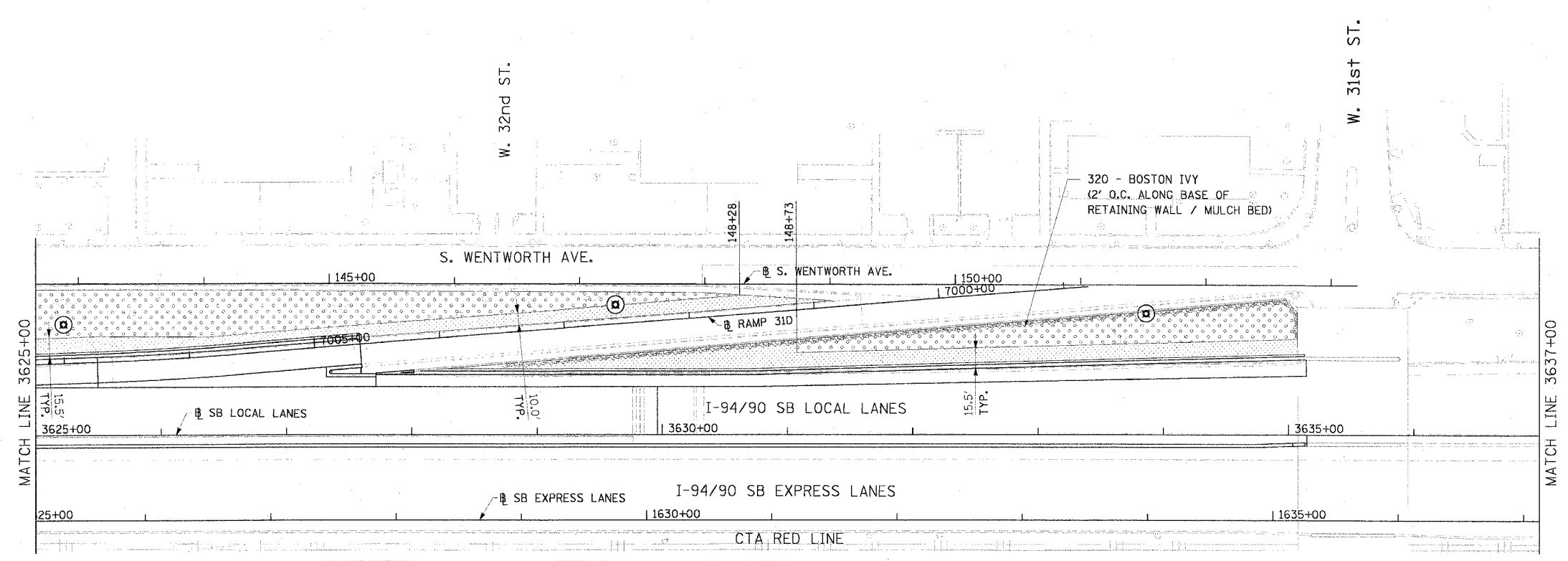
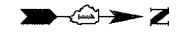
DRAWN BY: RPS
 CHECKED BY: RCH

DLK
 Civic Design

The Fine Arts Building
 410 South Michigan Avenue
 Chicago, Illinois 60605
 312.322.0911 fax 312.322.5324

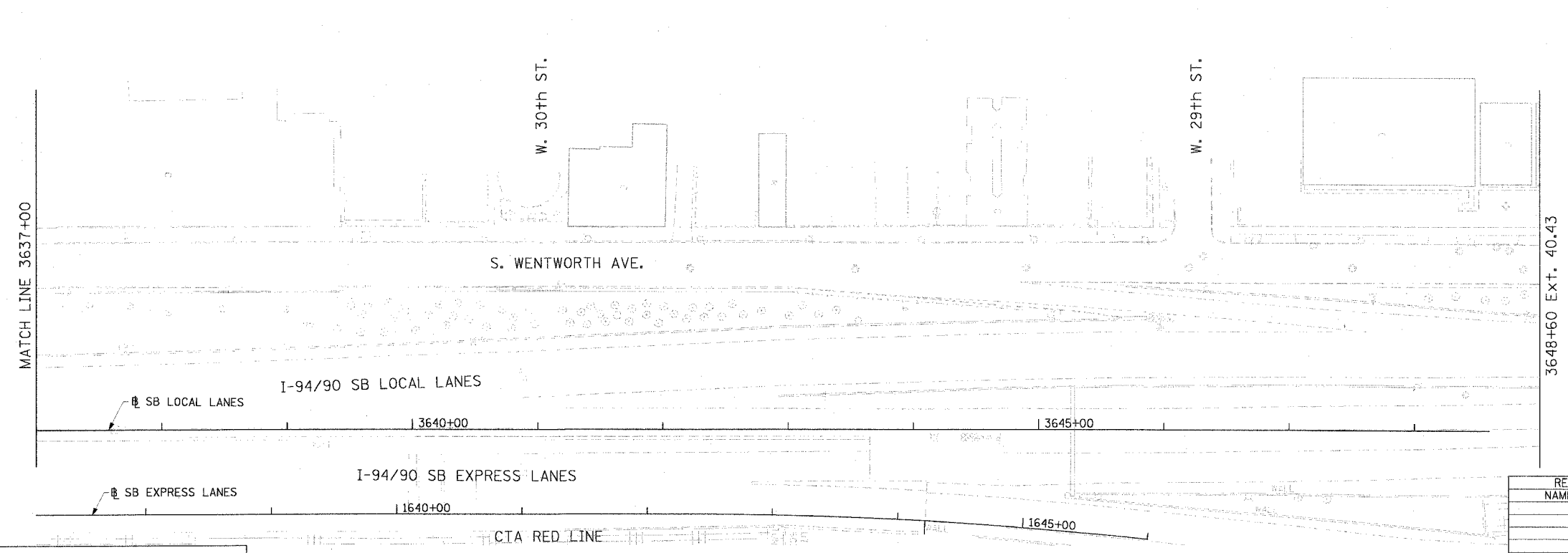
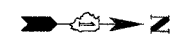
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	316
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



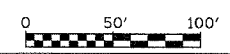
LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
- PERENNIAL PLANTS, DAYLILIES
- VINE



LANDSCAPING NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT 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.
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3. ALL SEEDING, CLASS 2A AREAS SHALL HAVE NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE EACH.
4. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

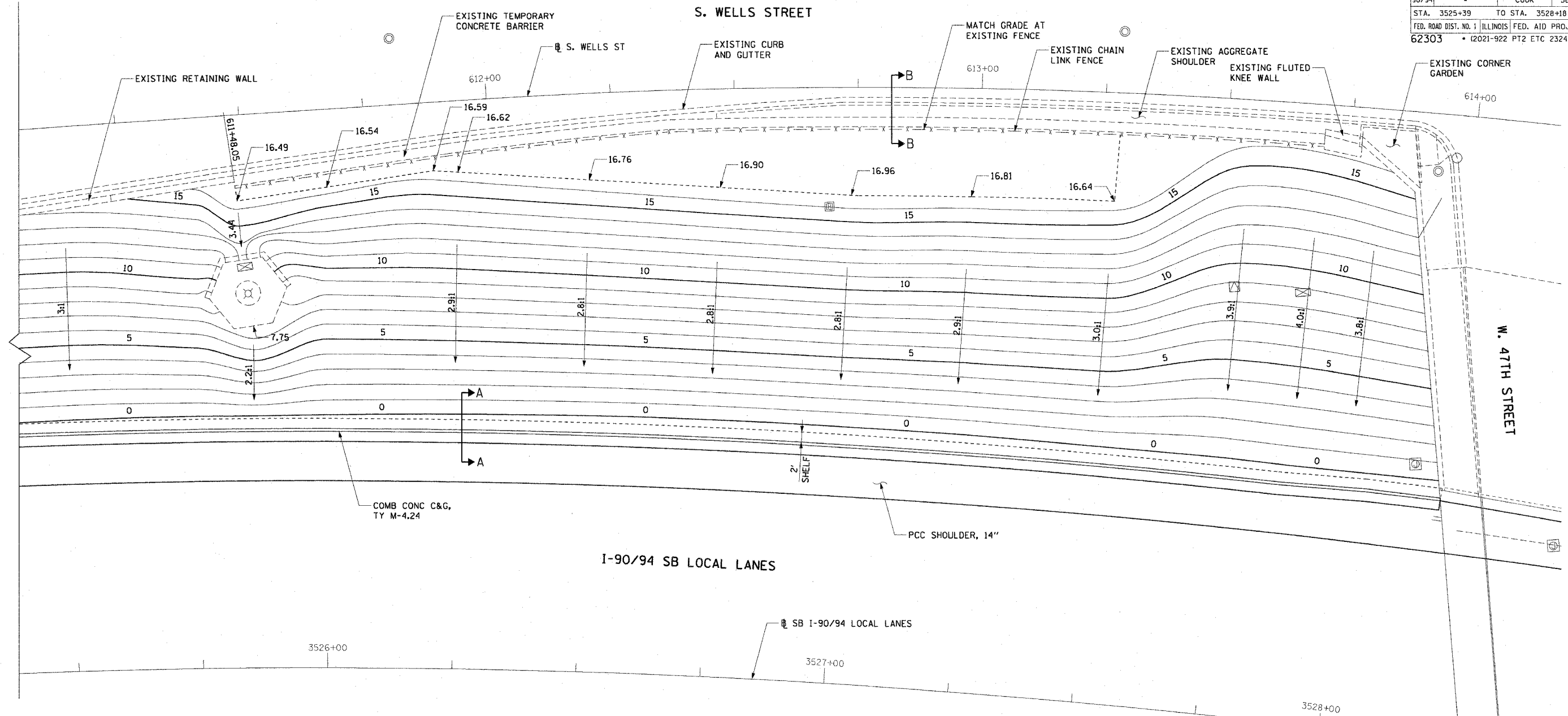
LANDSCAPING PLAN

SCALE: 1"=50'
 DATE: June 9, 2006
 DRAWN BY: RPS
 CHECKED BY: RCH

DLK
 Clivic Design
 The Fine Arts Building
 410 South Michigan Avenue
 Chicago, Illinois 60605
 312.322.0911 fax 312.322.5324

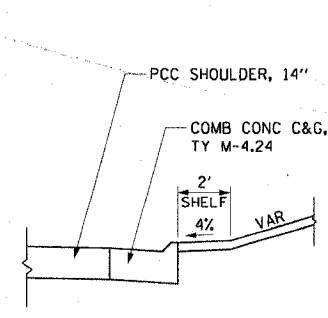
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	317
STA. 3525+39	TO STA. 3528+18			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

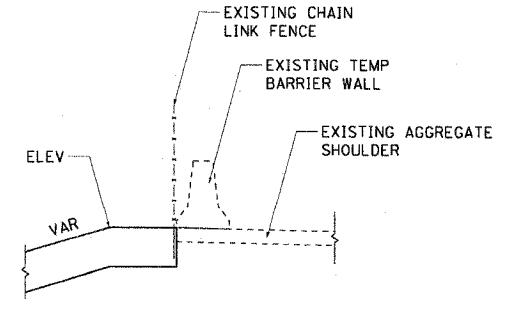


GRADING ELEVATIONS		
STATION	OFFSET	ELEV
3525+85.76	94.7' RT	16.49
3526+00.00	97.3' RT	16.54
+20.23	100.7' LT	16.59
+25.00	100.5' LT	16.62
+50.00	99.6' LT	16.76
+75.00	99.1' LT	16.90
3527+00.00	99.0' LT	16.96
+22.78	100.3' LT	16.81
+50.00	101.8' LT	16.64
+75.00	.	.
3528+00.00	.	.

NOTES:
 1. ELEVATIONS ARE FOR FUTURE LOCATION OF FLUTED KNEE WALL CONSTRUCTED IN CONTRACT 62987



SECTION A-A



SECTION B-B

• OFFSETS AND ELEVATIONS SHALL MATCH THE EXISTING AGGREGATE SHOULDER OR THE BASE OF THE EXISTING KNEE WALL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

GRADING PLANS

SCALE: 1"=10'
 DATE: June 9, 2006
 DRAWN BY: NJH
 CHECKED BY: XXX

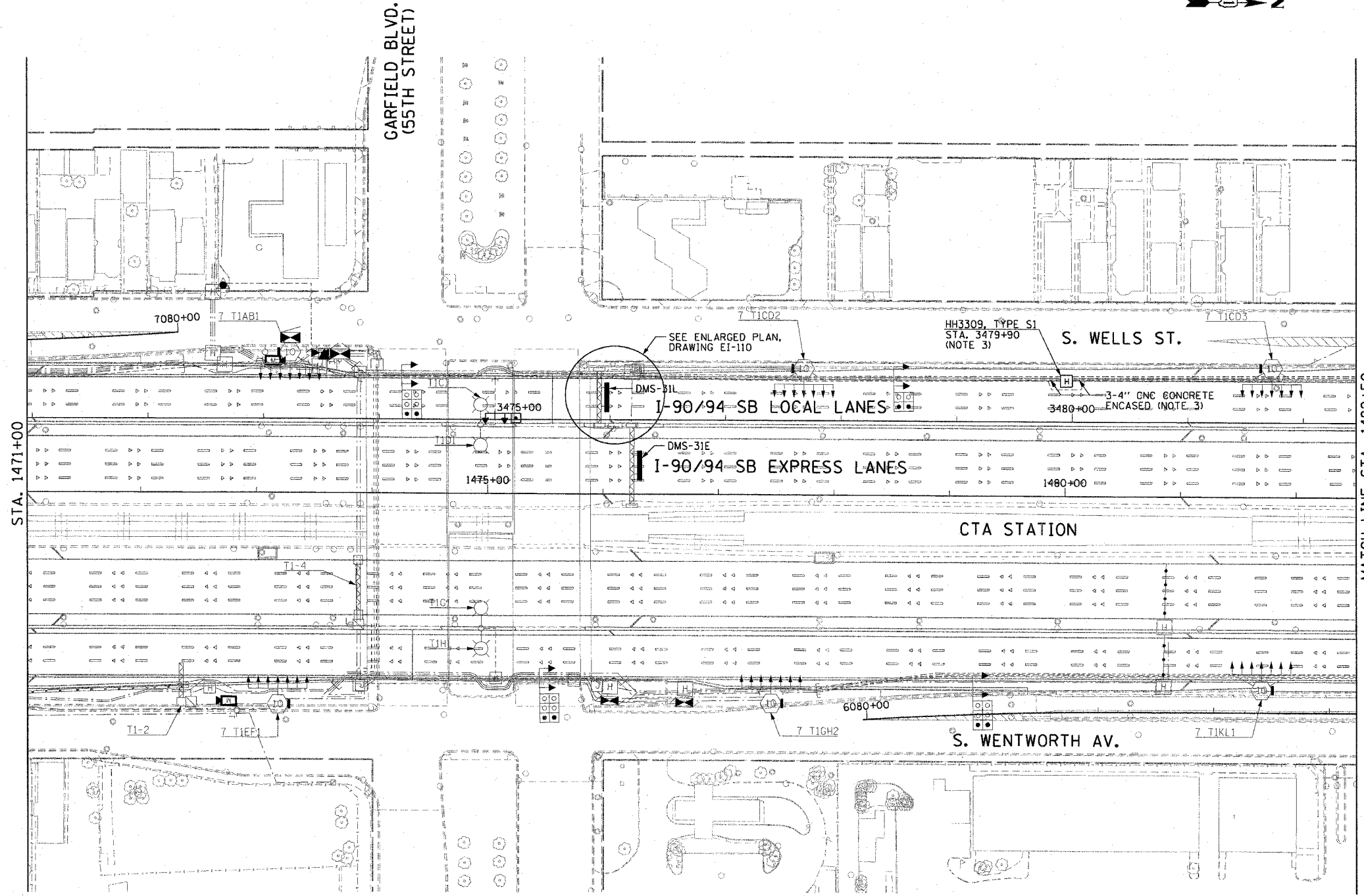
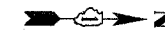


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	318
STA. 1471+00.00 TO STA. 1482+50.00				
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		

NOTES:

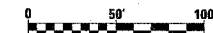
1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWING EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
3. THE CONTRACTOR SHALL INSTALL HH3309 IN THE APPROXIMATE LOCATION SHOWN AND EXTEND EXISTING CONDUIT ENCASED DUCTS INSTALLED IN CONTRACT NO. 62586 TO THE NEW HH. SEE DRAWINGS IN EI-108 AND EI-109 FOR THE INSTALLATION DETAILS.
4. SEE DRAWING EI-110 FOR AN ENLARGED PLAN FOR THE WORK ASSOCIATED WITH DMS-31L AND DMS-31E.
5. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



STA. 1471+00

MATCH LINE STA. 1482+50
SEE SHEET EI-34

CTE | AECOM



EI-33

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLAN

SCALE: 1"=50'
DATE: June 9, 2006

DRAWN BY: HAR
CHECKED BY: JPC

06/07/2006 09:59:07 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	319
STA. 1482+50.00		TO STA. 1494+50.00		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

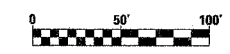
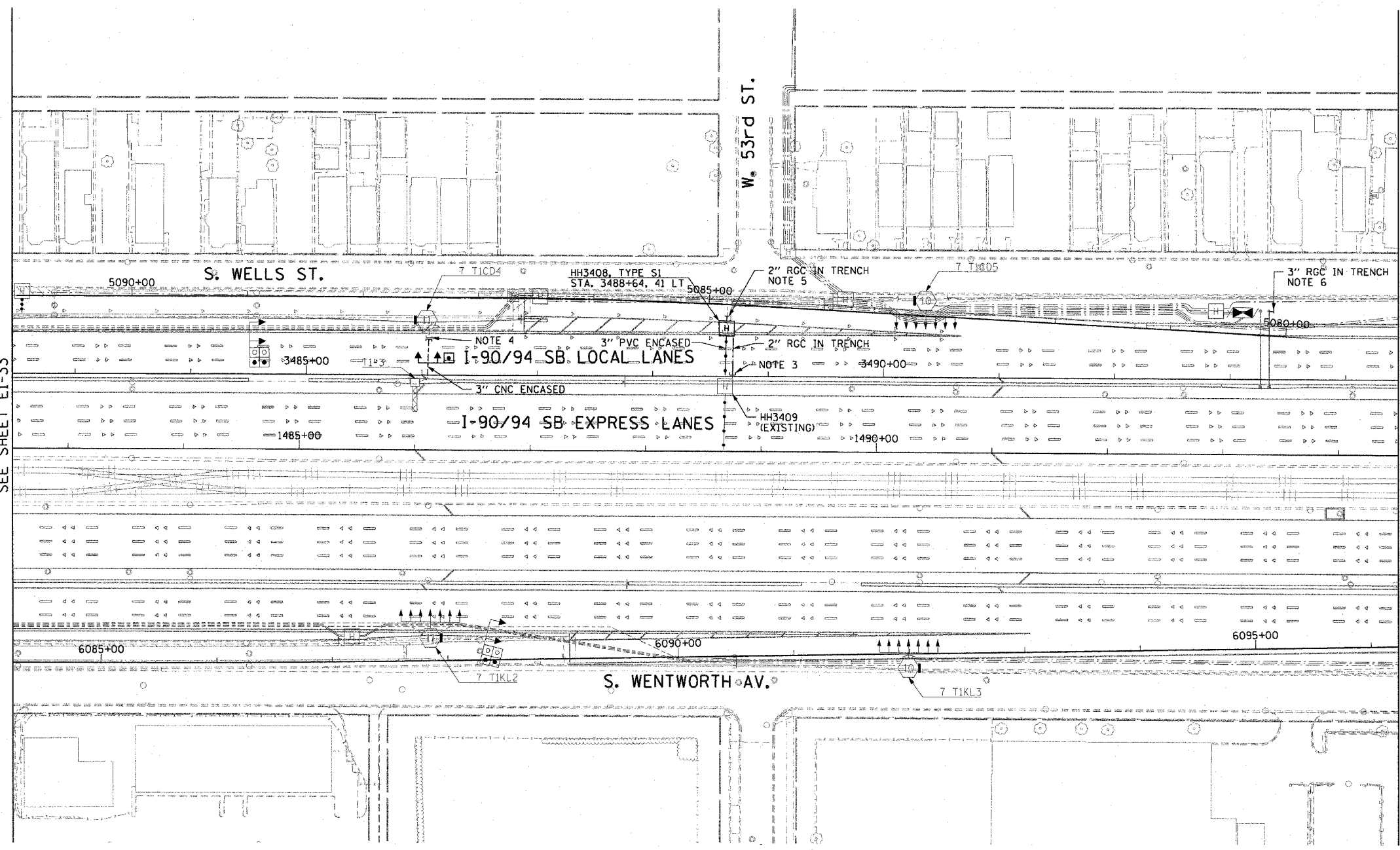


NOTES:

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWINGS EI-102, EI-103 AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
3. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUTS INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUIT.
4. THE CONTRACTOR SHALL LOCATE THE EXISTING 3" RGS CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUIT TO THE 4" CNC INSTALLED IN CONTRACT NO. 62586. PROVIDE 4" TO 3" REDUCED FITTING.
5. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUTS INSTALLED IN IDOT CONTRACT NO. 62586 AND CONNECT TO HH3408.
6. EXTEND CONDUIT STUB-OUT 2' BEYOND THE SIGN STRUCTURE FOUNDATION, CAP FOR FUTURE USE.
7. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

MATCH LINE STA. 1482+50
SEE SHEET EI-33

MATCH LINE STA. 1494+50
SEE SHEET EI-35



EI-34

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLAN

SCALE: 1"=50'
 DATE: June 9, 2006

DRAWN BY: HAR
 CHECKED BY: JPC

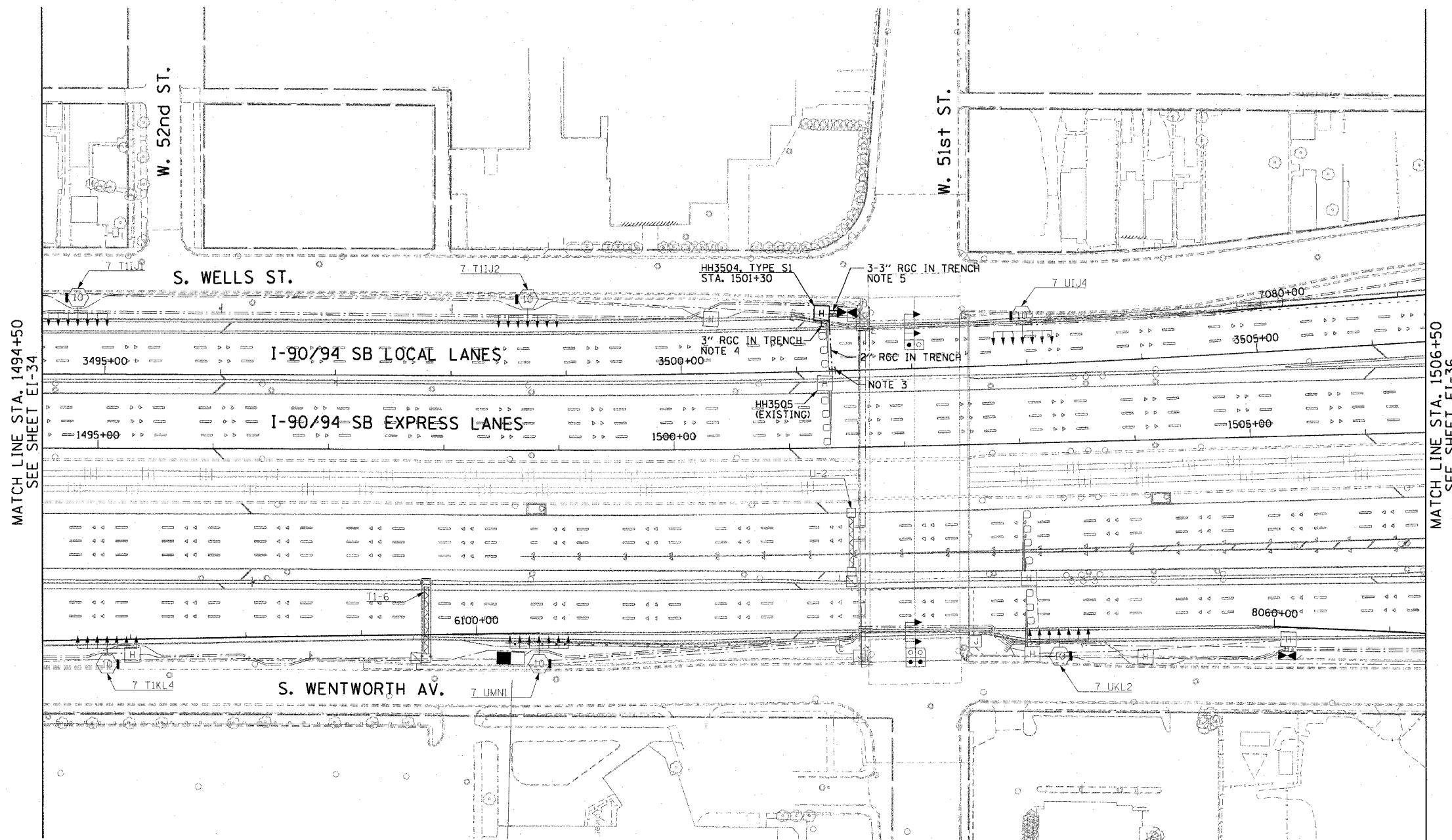
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	320
STA. 1494+50.00		TO STA. 1506+50.00		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

NOTES:

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE DRAWINGS EI-102, EI-103 AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUIT.
- PROVIDE A 3" RGC CONDUIT TO EDGE OF LANE PAVEMENT FOR DETECTOR LOOP WIRING. DETECTOR LOOPS WILL BE SAW CUT IN LOCAL LANES UNDER CONTRACT NO. 62583. COORDINATE EXACT CONDUIT LOCATION WITH CONTRACT NO. 62583.
- PROVIDE THREE 3" RGC CONDUITS TO CONTROLLER INSTALLED IN CONTRACT NO. 62583. COORDINATE CONTROLLER LOCATION WITH CONTRACT NO. 62583.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

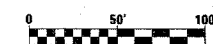
P:\A\0468\elec\18-cvrs 18 & 19\contract 19\STA\190352a.rvt



MATCH LINE STA. 1494+50
SEE SHEET EI-34

MATCH LINE STA. 1506+50
SEE SHEET EI-36

CTE | AECOM



EI-35

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ELECTRICAL INFRASTRUCTURE PLAN

SCALE: 1"=50'
DATE: June 9, 2006
DRAWN BY: HAR
CHECKED BY: JPC

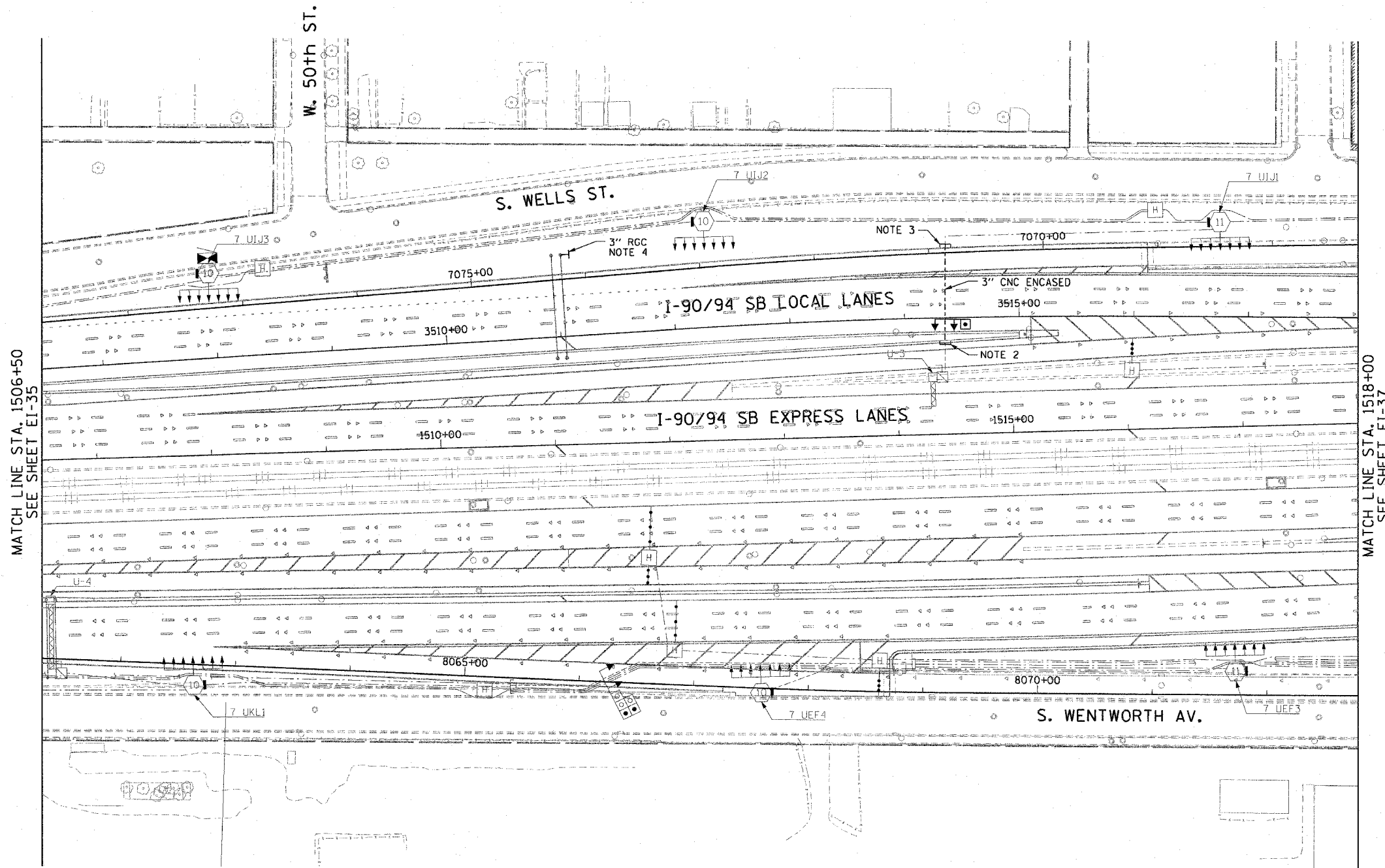
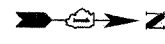
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	321
STA. 1506+50.00 TO STA. 1518+00.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

NOTES:

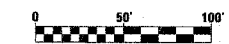
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING 3" RGS CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUIT.
- EXTEND 3" CNC CONDUIT 5' PAST CURB AND CAP FOR FUTURE USE.
- EXTEND CONDUIT STUB-OUT 2' BEYOND THE SIGN STRUCTURE FOUNDATION. CAP FOR FUTURE USE.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

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MATCH LINE STA. 1506+50
SEE SHEET EI-35

MATCH LINE STA. 1518+00
SEE SHEET EI-37



EI-36

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ELECTRICAL INFRASTRUCTURE PLAN

SCALE: 1"=50'
DATE: June 9, 2006

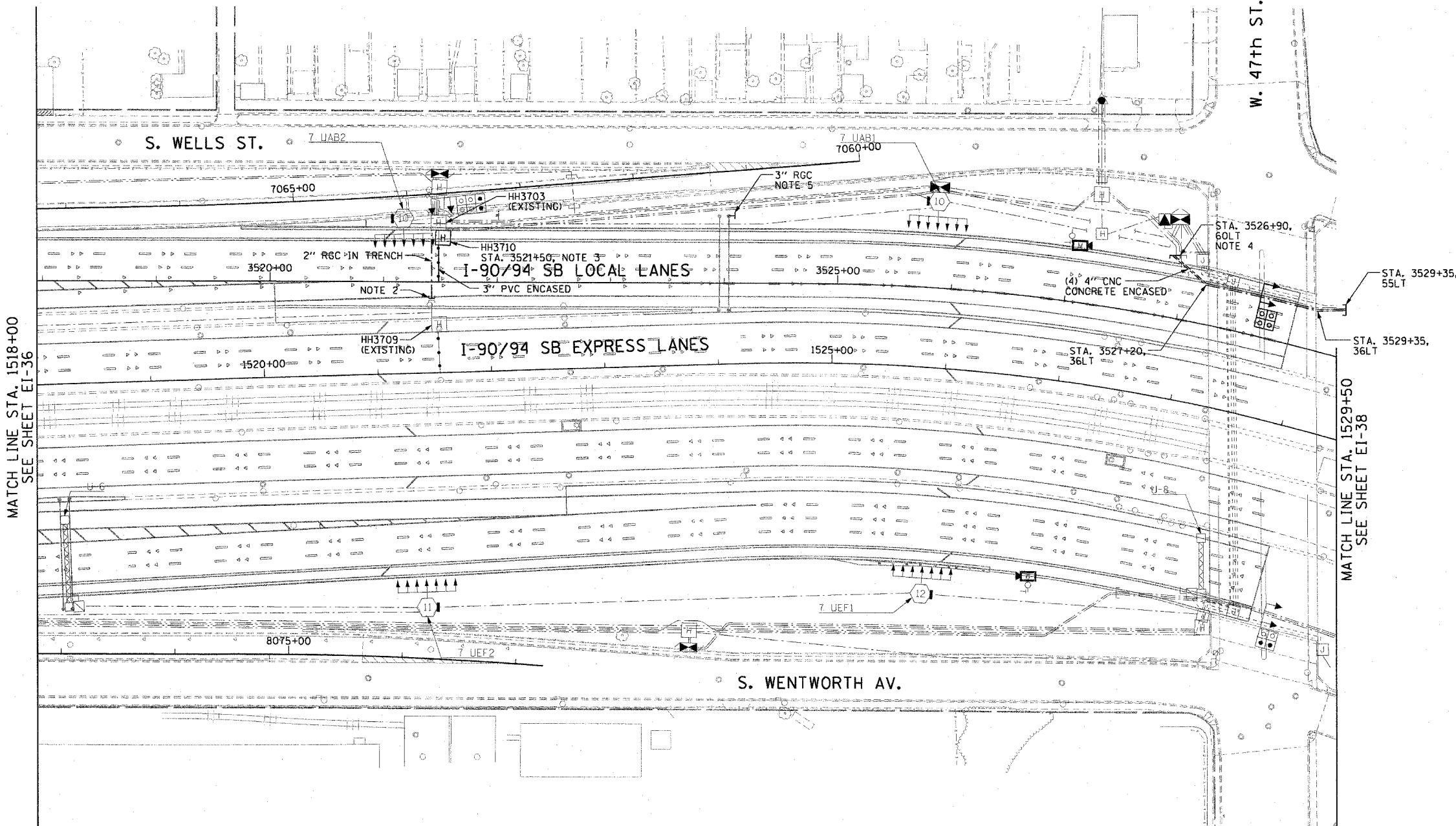
DRAWN BY: HAR
CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	322
STA. 1518+00.00 TO STA. 1529+50.00				
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

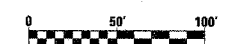
NOTES:

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUTS INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUIT FROM HH3710.
- CONTRACTOR SHALL INSTALL HH3710 IN LOCAL LANE SHOULDER, PROVIDE A 3" RGC IN TRENCH FROM HH3710 TO HH3703. SEE DRAWINGS EI-102, EI-103 AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
- SEE DRAWING EI-107 FOR TYPICAL INSTALLATION DETAILS OF DUCTBANK AT AN EXISTING BRIDGE ABUTMENT. DUCTBANK SHALL BE TERMINATED AT THE STATIONS AND OFFSETS SHOWN APPROXIMATELY 30" BELOW FINISHED GRADE.
- EXTEND CONDUIT STUB-OUT 2' BEYOND THE SIGN STRUCTURE FOUNDATION. CAP FOR FUTURE USE.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



MATCH LINE STA. 1518+00
SEE SHEET EI-36

MATCH LINE STA. 1529+50
SEE SHEET EI-38



EI-37

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

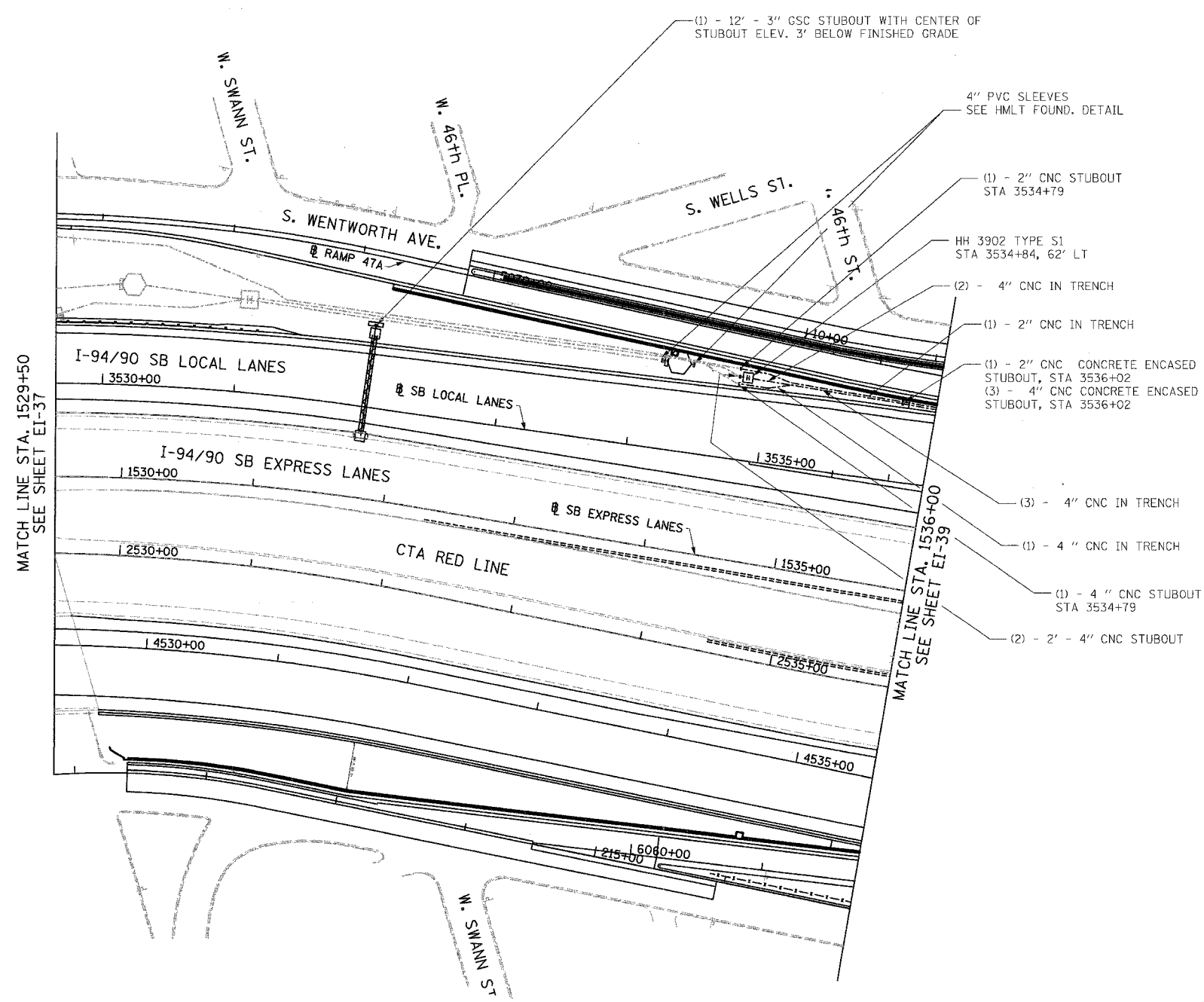
ELECTRICAL INFRASTRUCTURE PLAN

SCALE: 1"=50'
DATE: June 9, 2006

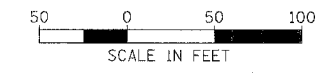
DRAWN BY: HAR
CHECKED BY: JPC

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	323
STA. 1529+50 TO STA. 1536+00				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	* (2021-922 PT2 ETC 2324.6-1P) R-11			



- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.
 - ELECTRICAL DUCTBANKS AROUND BRIDGE ABUTMENTS MUST CLEAR ALL PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS FOR DETAILS.



EI-38

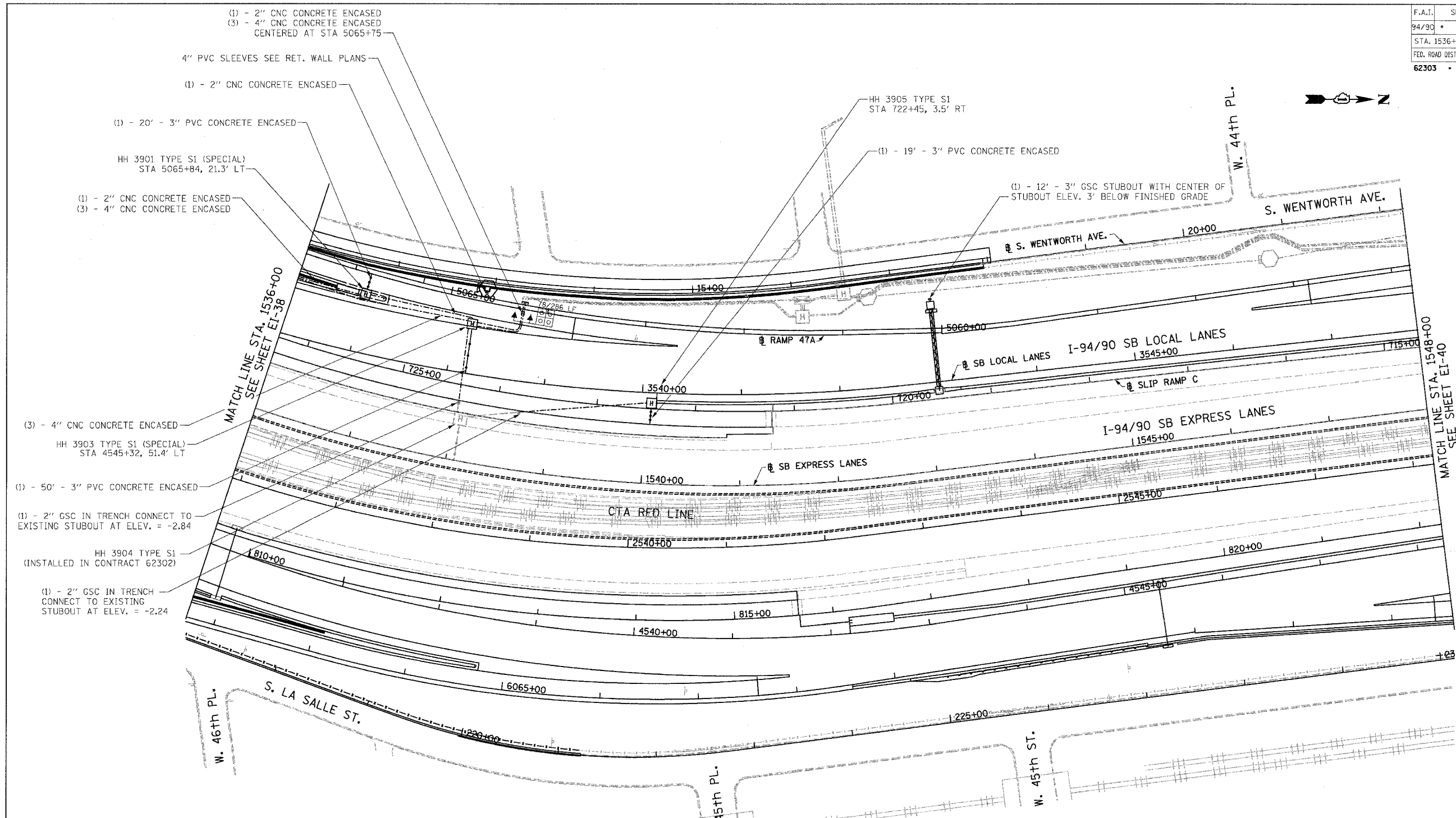
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) 59TH STREET TO 31ST STREET (SB LOCAL LANES) ELECTRICAL INFRASTRUCTURE PLANS
NAME	DATE	

SCALE: 1"=50'
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

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11/4/09 AM 6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	324
STA. 1536+00		TO STA. 1548+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

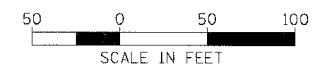


- (1) - 2" CNC CONCRETE ENCASED
- (3) - 4" CNC CONCRETE ENCASED
- CENTERED AT STA 5065+75
- 4" PVC SLEEVES SEE RET. WALL PLANS
- (1) - 2" CNC CONCRETE ENCASED
- (1) - 20' - 3" PVC CONCRETE ENCASED
- HH 3901 TYPE S1 (SPECIAL)
- STA 5065+84, 21.3' LT
- (1) - 2" CNC CONCRETE ENCASED
- (3) - 4" CNC CONCRETE ENCASED

- (3) - 4" CNC CONCRETE ENCASED
- HH 3903 TYPE S1 (SPECIAL)
- STA 4545+32, 51.4' LT
- (1) - 50' - 3" PVC CONCRETE ENCASED
- (1) - 2" GSC IN TRENCH CONNECT TO
- EXISTING STUBOUT AT ELEV. = -2.84
- HH 3904 TYPE S1
- (INSTALLED IN CONTRACT 62302)
- (1) - 2" GSC IN TRENCH
- CONNECT TO EXISTING
- STUBOUT AT ELEV. = -2.24

- NOTES:
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.
 - ELECTRICAL DUCTBANKS AROUND BRIDGE ABUTMENTS MUST CLEAR ALL PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS FOR DETAILS.

BOWMAN, BARRETT & ASSOCIATES INC.
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

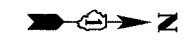
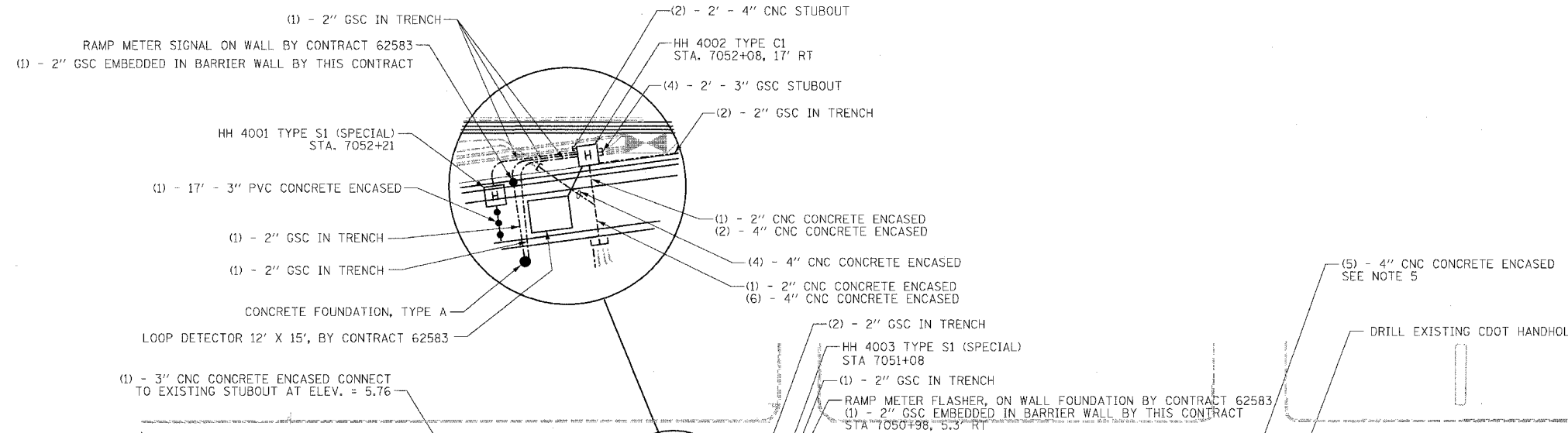
SCALE: 1"=50'
DATE: 06/09/06

DRAWN BY: JDC
CHECKED BY: RS

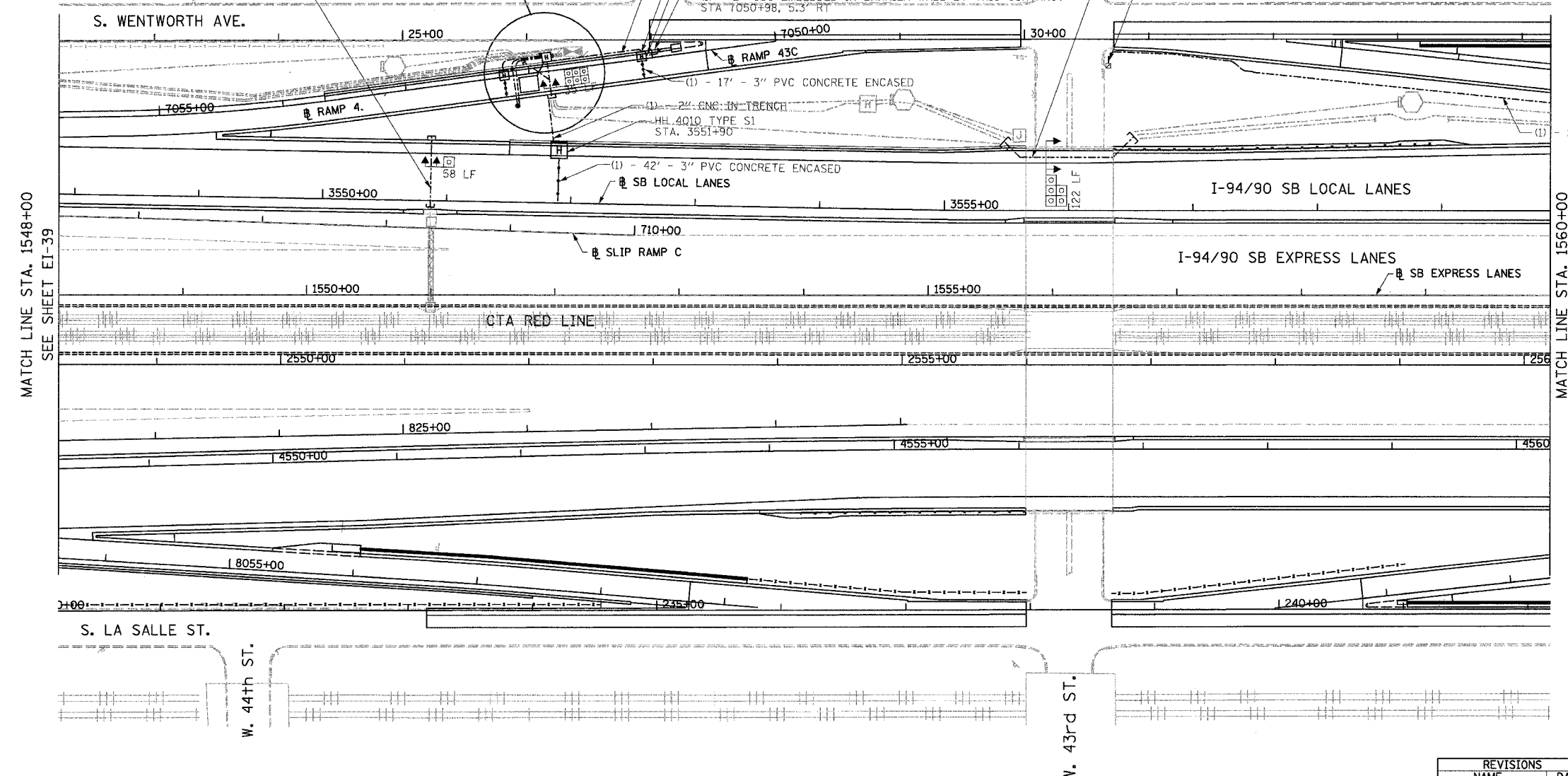
EI-39

6/7/2006 11:42:24 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	325
STA. 1548+00		TO STA. 1560+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

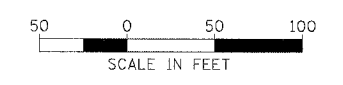


- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.
 - ELECTRICAL DUCTBANKS AROUND BRIDGE ABUTMENTS MUST CLEAR ALL PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS FOR DETAILS.



MATCH LINE STA. 1548+00
SEE SHEET EI-39

MATCH LINE STA. 1560+00
SEE SHEET EI-41



EI-40

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REVISIONS	NAME	DATE

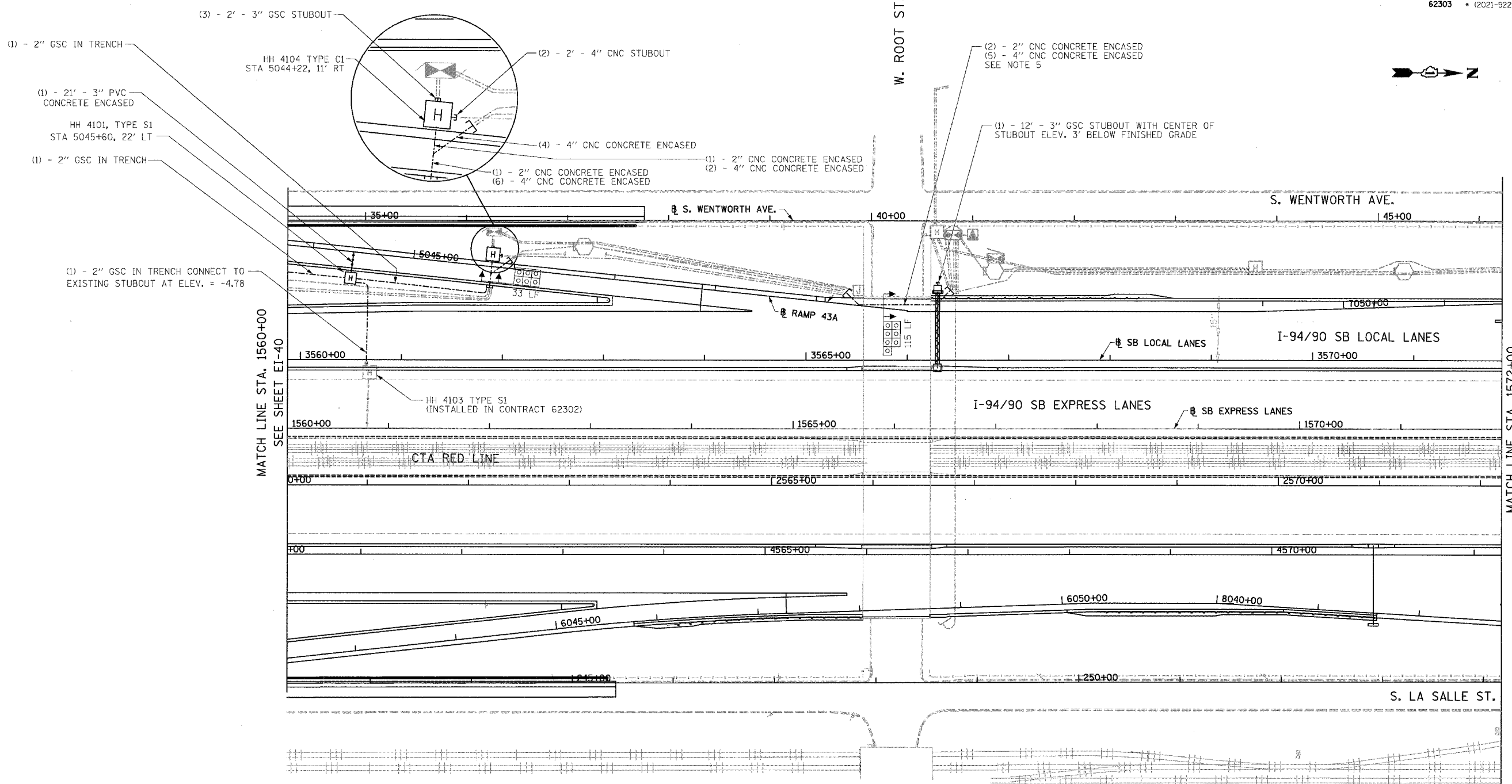
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

SCALE: 1"=50'
DATE: 06/09/06

DRAWN BY: JDC
CHECKED BY: RS

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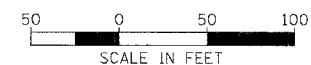
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	326
STA. 1560+00		TO STA. 1572+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



MATCH LINE STA. 1560+00
SEE SHEET EI-40

MATCH LINE STA. 1572+00
SEE SHEET EI-42

- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.
 - ELECTRICAL DUCTBANKS AROUND BRIDGE ABUTMENTS MUST CLEAR ALL PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS FOR DETAILS.



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REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

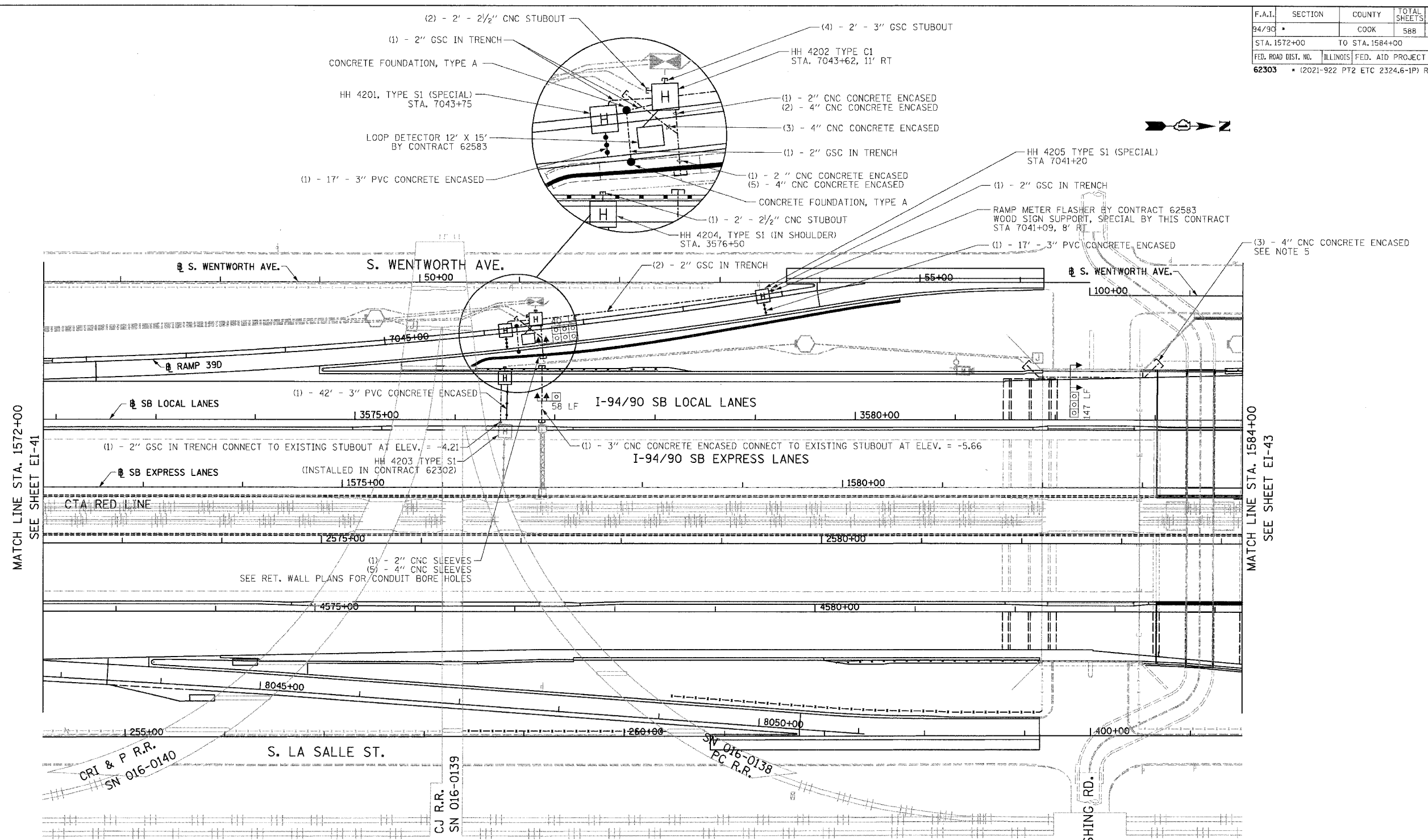
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DATE: 06/09/06

DRAWN BY: JDC
CHECKED BY: RS

EI-41

11/4/2006 11:43:57 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	327
STA. 1572+00		TO STA. 1584+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



MATCH LINE STA. 1572+00
SEE SHEET EI-41

MATCH LINE STA. 1584+00
SEE SHEET EI-43

- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.
 - ELECTRICAL DUCTBANKS AROUND BRIDGE ABUTMENTS MUST CLEAR ALL PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS FOR DETAILS.

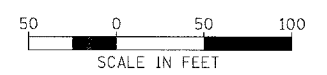
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

SCALE: 1"=50'
DATE: 06/09/06

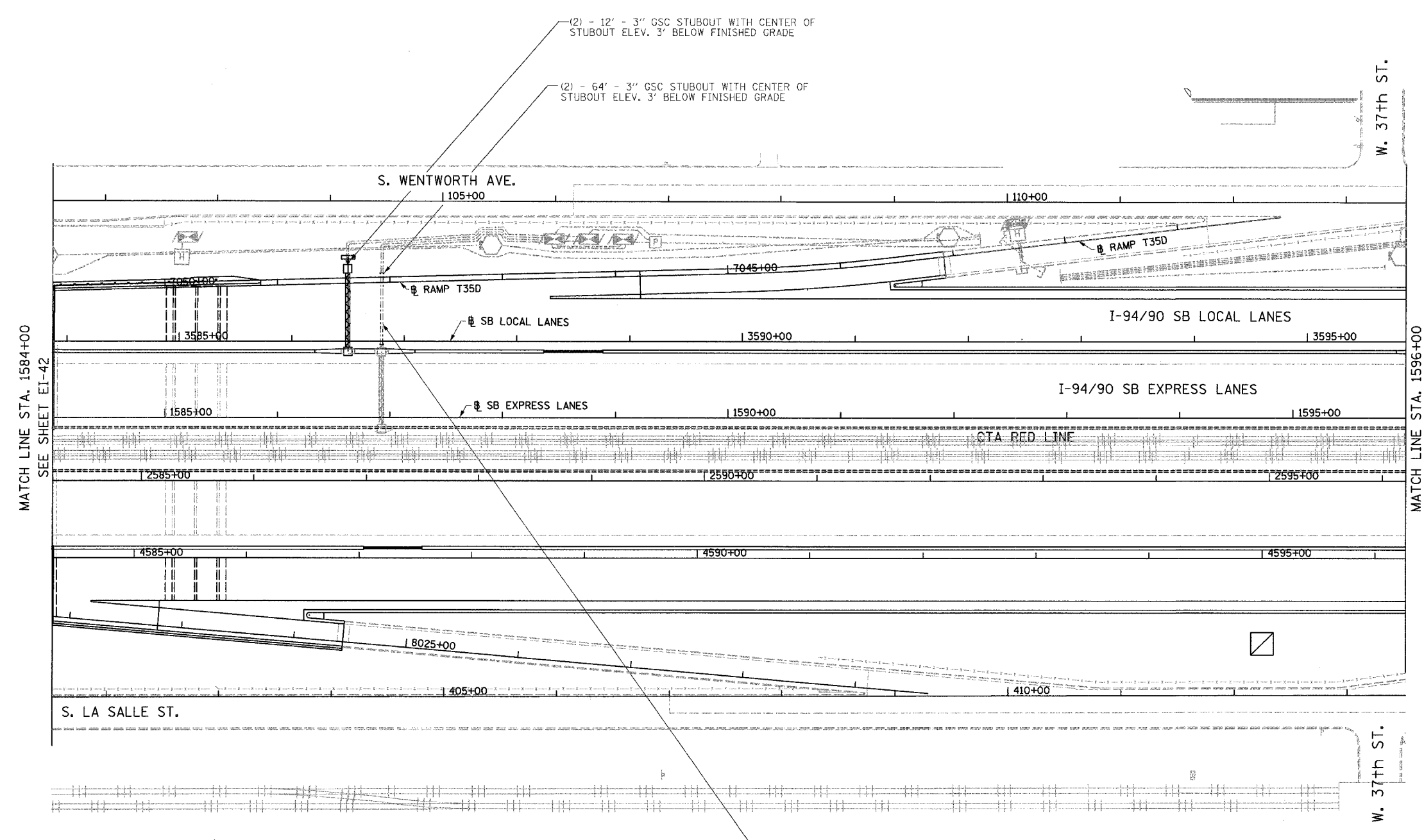
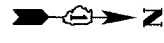
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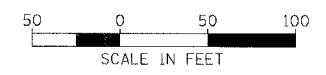
EI-42

11/4/02 AM
6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	328
STA. 1584+00		TO STA. 1596+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		



- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.



MATCH LINE STA. 1584+00
SEE SHEET EI-42

MATCH LINE STA. 1596+00
SEE SHEET EI-44

EI-43

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

SCALE: 1" = 50'
 DATE: 06/09/06

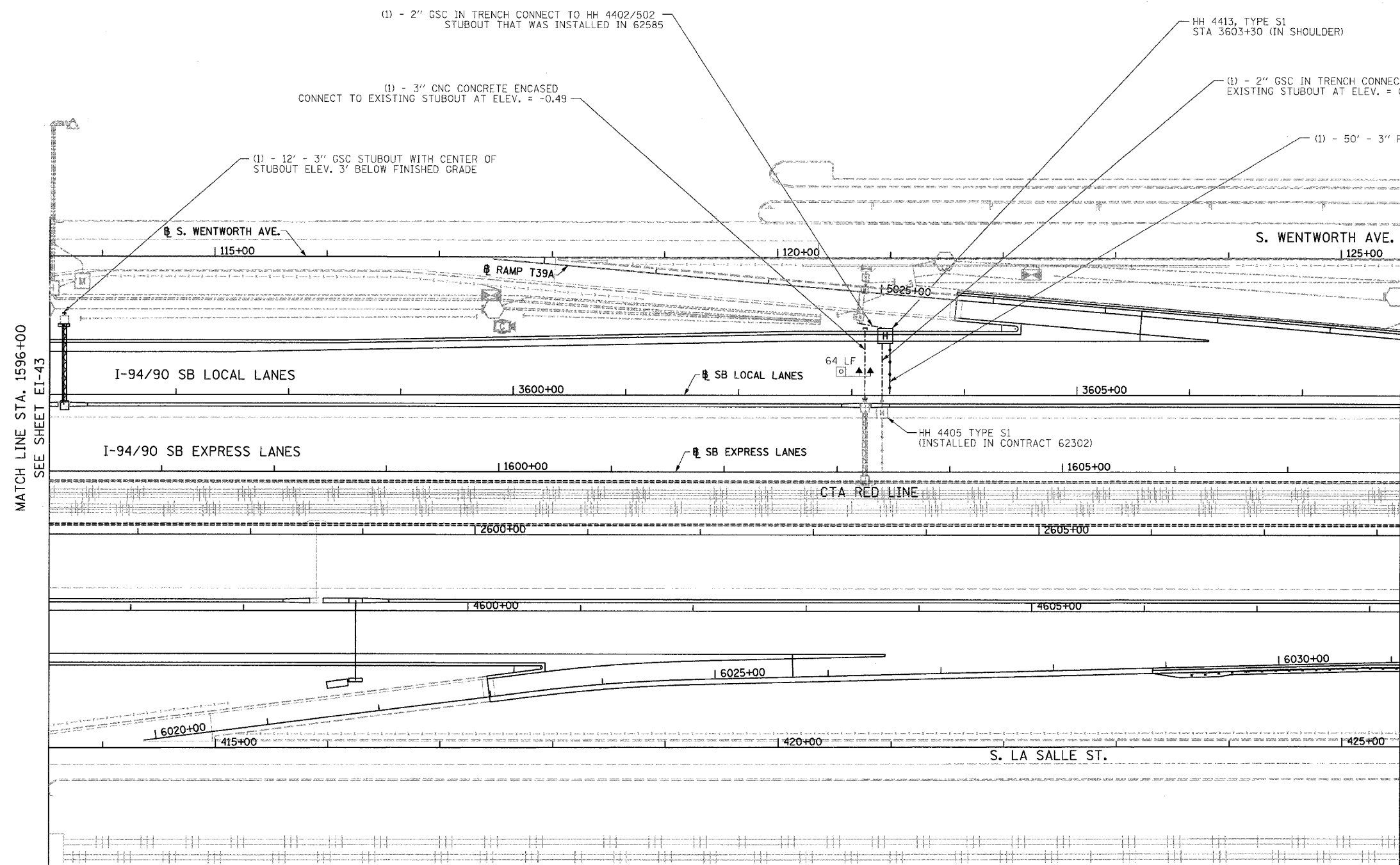
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(2) - 3" GSC CONNECT TO EXISTING STUBOUT AT ELEV. = -3.14

6/8/2006

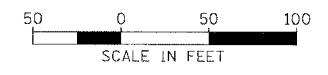
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	329	COOK	588	329
STA. 1596+00		TO STA. 1608+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*(2021-922 PT2 ETC 2324.6-1P) R-11			



MATCH LINE STA. 1596+00
SEE SHEET EI-43

MATCH LINE STA. 1608+00
SEE SHEET EI-45

- NOTES:
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS
 - TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 - THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.



EI-44

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REVISIONS	NAME	DATE

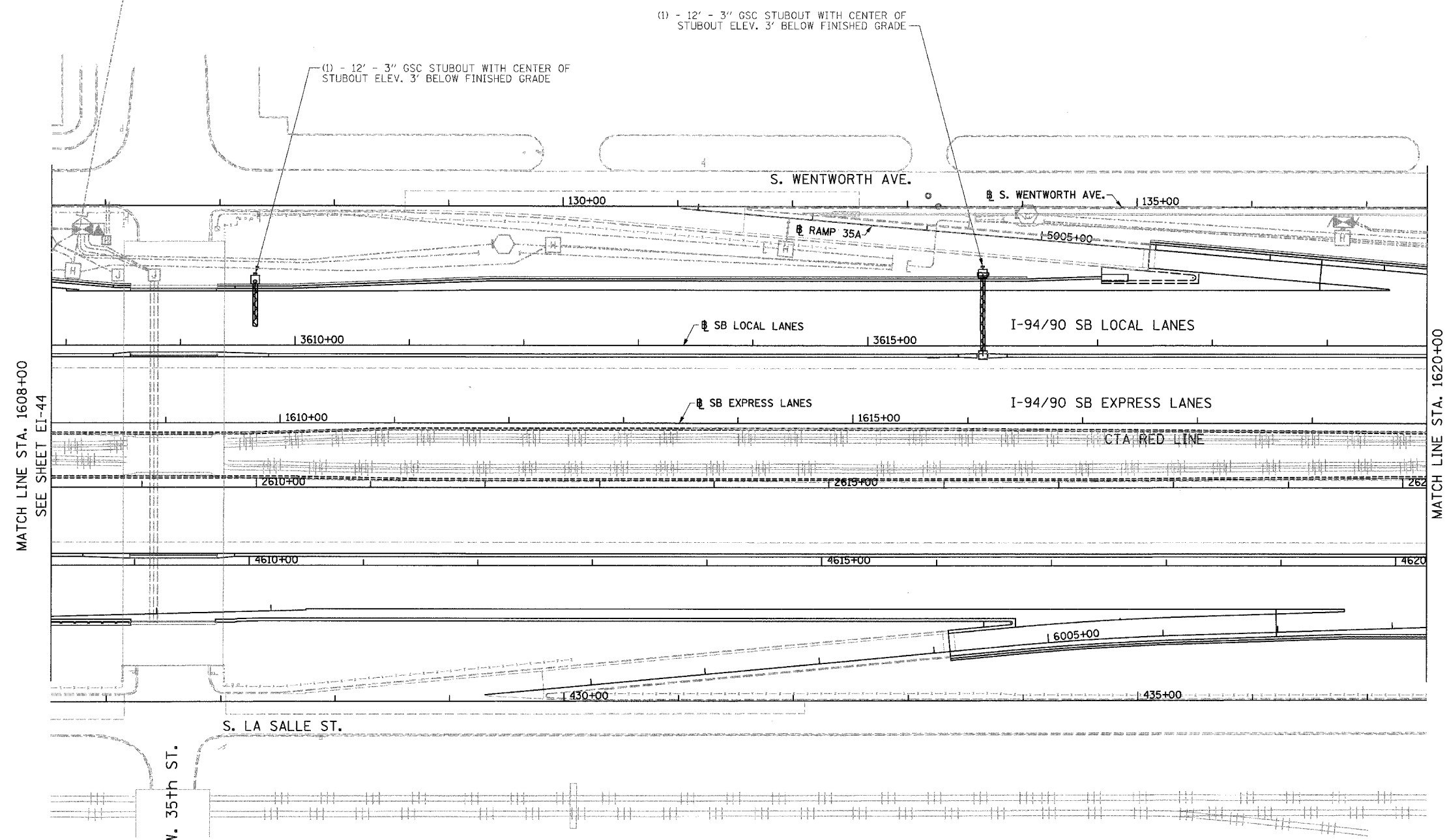
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

SCALE: 1"=50'
DATE: 06/09/06

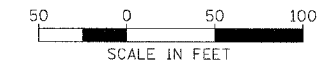
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	330
STA. 1608+00		TO STA. 1620+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		



- NOTES:
1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 2. SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
 3. TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 4. THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.



EI-45

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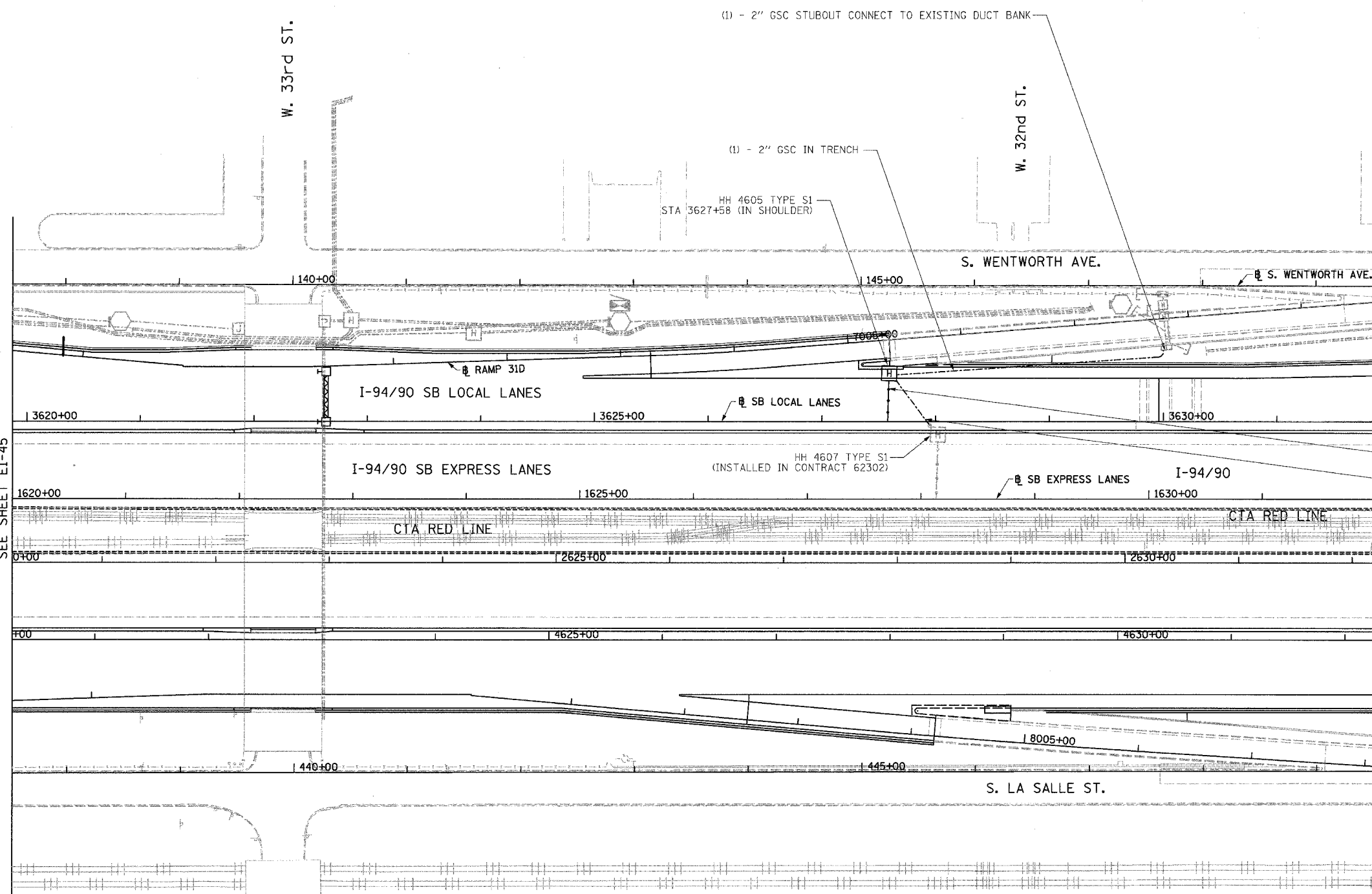
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

SCALE: 1"=50'
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

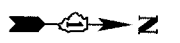
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	331
STA. 1620+00		TO STA. 1632+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



MATCH LINE STA. 1620+00
SEE SHEET EI-45

MATCH LINE STA. 1632+00
SEE SHEET EI-47



NOTES:

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS
3. TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
4. THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.



EI-46

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS

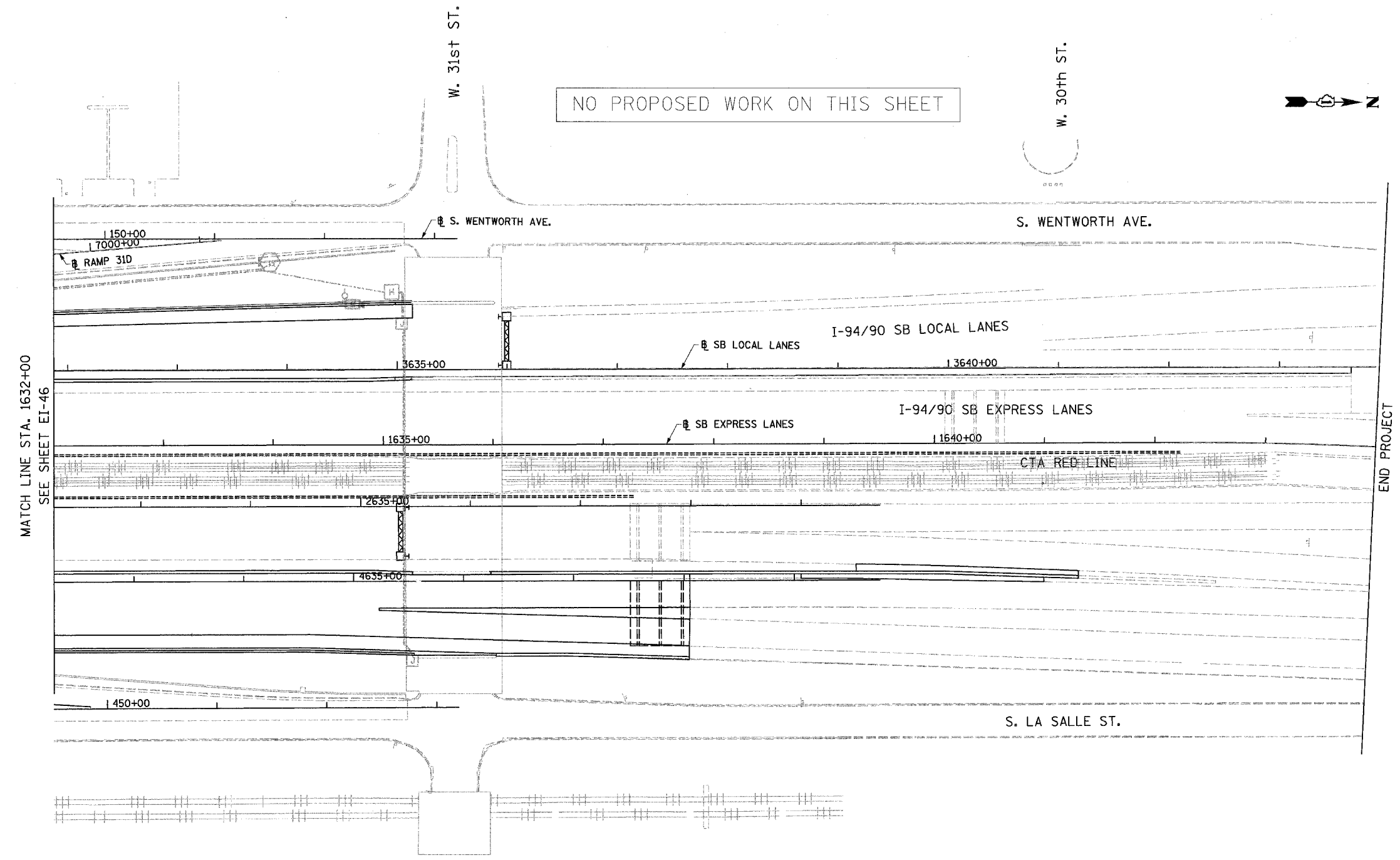
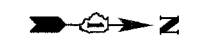
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DATE: 06/09/06

DRAWN BY: JDC
CHECKED BY: RS

11/11/2006 11:47:24 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	332
STA. 1632+00		TO STA. 1644+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 * (2021-922 PT2 ETC 2324.6-1P) R-11				

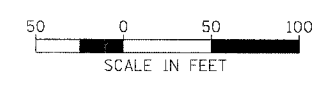
NO PROPOSED WORK ON THIS SHEET



MATCH LINE STA. 1632+00
SEE SHEET EI-46

END PROJECT

- NOTES:**
1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 2. SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS
 3. TRENCHED CONDUITS INSTALLED IN PARALLEL ARE TO BE INSTALLED IN COMMON TRENCH.
 4. THIS CONTRACT IS RESPONSIBLE FOR PROPOSED ITEMS THAT ARE LABELED. UNLABELLED ITEMS ARE THE RESPONSIBILITY OF CONTRACT 62583. ALL WORK MUST BE COORDINATED BY BOTH CONTRACTS.



EI-47

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
59TH STREET TO 31ST STREET (SB LOCAL LANES)
ELECTRICAL INFRASTRUCTURE PLANS
SCALE: 1" = 50'
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

11/4/06 AM
6/21/2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	333
STA.		TO STA.		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

ELECTRICAL SYMBOLS FOR PROPOSED WORK

GENERAL ELECTRICAL CALLOUTS

- LIGHT TOWER FOUNDATION
NUMBER INSIDE HEXAGON INDICATES TOWER TYPE
HANDHOLE LOCATION AS INDICATED
TOWER INSTALLED BY OTHERS,
UNDER A SEPARATE CONTRACT

TYPE	TOWER HEIGHT
10	100 FEET
11	110 FEET
12	120 FEET

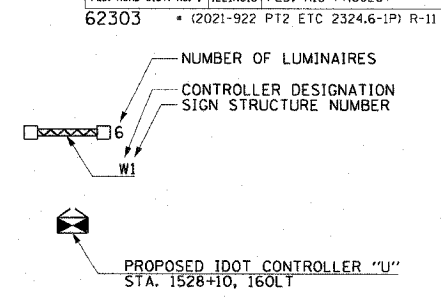
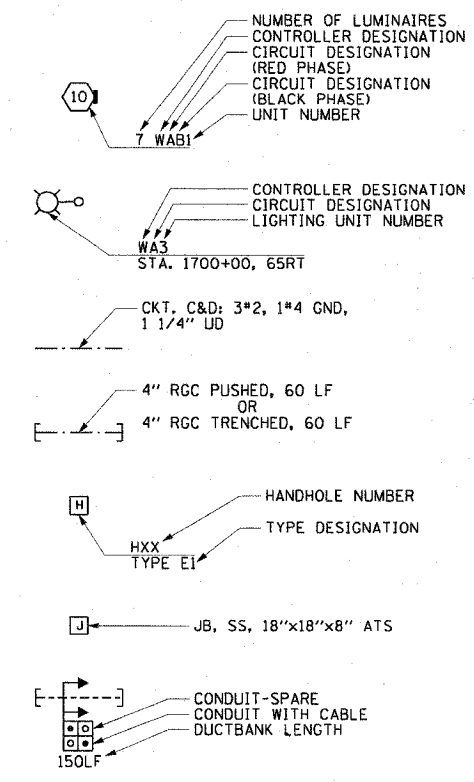
- LIGHT POLE FOUNDATION
POLE INSTALLED BY OTHERS
UNDER A SEPARATE CONTRACT
- TEMPORARY LIGHTING UNIT INCLUDING 60 FOOT
WOOD POLE (CLASS 4), 8'-0" MAST ARM WITH
400 WATT HPS LUMINAIRE
- ELECTRIC HANDHOLE; TYPE AS INDICATED

 - TYPE E1: PC CONCRETE, 21.5"x21.5"x30"
IDOT STANDARD 814001
 - TYPE E2: PC CONCRETE-HEAVY DUTY, 22"x22"x30",
IDOT STANDARD 814001
 - TYPE C1: COMMUNICATIONS VAULT
 - TYPE S1: PC CONCRETE-HEAVY DUTY, 22"x22"x36"
 - TYPE S2: PC CONCRETE-HEAVY DUTY SPECIAL,
30"x30"x36"

- JUNCTION BOX; TYPE AND SIZE AS INDICATED
ON PLANS
- PULL BOX; TYPE AND SIZE AS INDICATED
ON PLANS
- TELEPHONE CONNECTION
- FIBER OPTIC COMMUNICATIONS HUT
- LIGHTED SIGN STRUCTURE-CANTILEVER TYPE
(NUMBER OF FLUORESCENT FIXTURES AS
INDICATED WITH ASSOCIATED DISCONNECT
SWITCH - TYP.) (N.I.C.)

- LIGHTED SIGN STRUCTURE-TRUSS TYPE
- TEMPORARY LIGHTED SIGN STRUCTURE-TRUSS
TYPE, QUANTITY OF LUMINAIRES AS SHOWN
ON SIGNING PLANS
- LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE
- DYNAMIC MESSAGE SIGN
- FLASHING BEACON SIGN
- CLOSED CIRCUIT TELEVISION CAMERA
- MICROWAVE DETECTOR
- DETECTOR LOOP
- CONTROLLER CABINET FOUNDATION
- CONTROLLER CABINET FOUNDATION; SURVEILLANCE
- CONTROLLER CABINET FOUNDATION; SURVEILLANCE,
TYPE 334
- RAMP METER SIGNAL POLE/HEAD FOUNDATION
- RAMP METER FLASHER FOUNDATION
- TEMPORARY WOOD POLE, 50 FOOT LENGTH
(10 FOOT BURIED, 40 FOOT INSTALLED HEIGHT)
- HIGHWAY ADVISORY RADIO ANTENNA
- ELECTRIC UTILITY POLE
- CCTV CAMERA POLE
- PULLING PEDESTAL

- POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- GROUND ROD
- MAIN SERVICE FUSED DISCONNECT SWITCH
(RATING AS INDICATED)
- EXISTING RACEWAY OR CONDUIT RUN
AS INDICATED ON PLANS
- RACEWAY EMBEDDED IN STRUCTURE
- RACEWAY OR DIRECT BURIAL CABLE
UNDERGROUND WITHOUT ENCASEMENT
- RIGID GALVANIZED STEEL CONDUIT
SLEEVE, TRENCHED OR PUSHED
- UNDERGROUND REINFORCED CONCRETE ENCASED
DUCTBANK, UNO. (NUMBER, TYPE, AND SIZE OF
DUCTS AS SHOWN)
- RACEWAY OR CONDUIT IN TRENCH, TYPE AS
INDICATED ON PLANS
- AERIAL CABLE, TYPE AS INDICATED ON PLANS
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP



ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

- EXISTING LIGHTING UNIT, TWIN LUMINAIRE
- EXISTING LIGHTING UNIT
- EXISTING TEMPORARY LIGHTING UNIT
- EXISTING CDOT LIGHTING UNIT
- EXISTING UNDERPASS LUMINAIRE
- EXISTING ELECTRIC HANDHOLE
- EXISTING JUNCTION BOX
- EXISTING PULL BOX
- EXISTING TELEPHONE CONNECTION
- EXISTING FIBER OPTIC COMMUNICATIONS HUT
- EXISTING ELECTRIC HANDHOLE/MANHOLE

- EXISTING CDOT ELECTRIC HANDHOLE/MANHOLE
- EXISTING LIGHTED SIGN STRUCTURE-
CANTILEVER TYPE
- EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE
- EXISTING LIGHTED SIGN STRUCTURE-
BRIDGE MOUNT TYPE
- EXISTING DYNAMIC MESSAGE SIGN
- EXISTING FLASHING BEACON SIGN
- EXISTING CLOSED CIRCUIT TELEVISION CAMERA
- EXISTING MICROWAVE DETECTOR
- EXISTING DETECTOR LOOP
- EXISTING LIGHTING CONTROLLER, DUPLEX
- EXISTING CONTROLLER CABINET
- EXISTING RAMP METER SIGNAL POLE/HEAD
- EXISTING PULLING PEDESTAL

- EXISTING RAMP METER FLASHER
- EXISTING HIGHWAY ADVISORY RADIO ANTENNA
- EXISTING CCTV CAMERA POLE
- EXISTING UTILITY SERVICE CONNECTION,
POLE MOUNTED
- EXISTING UTILITY SERVICE CONNECTION,
PAD MOUNTED
- EXISTING CONCEALED CONDUIT IN STRUCTURE
- EXISTING EXPOSED CONDUIT
- EXISTING RACEWAY OR DIRECT BURIED CABLE
WITHOUT ENCASEMENT
- EXISTING CONCEALED CONDUIT UNDERGROUND,
TRENCHED OR PUSHED
- EXISTING ELECTRIC CABLE IN CONDUIT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ELECTRICAL SYMBOLS

SCALE: NOT TO SCALE
DATE: June 9, 2006

DRAWN BY: HAR
CHECKED BY: JPC

EI-100

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ABBREVIATIONS

A	AMPERES	ID	INNERDUCT	WB	WESTBOUND
AC	ALTERNATING CURRENT	IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION	WM	WALL MOUNTED
A/C	AERIAL CABLE	IN	INCHES	WP	WOOD POLE
AFG	ABOVE FINISHED GRADE	J, JB	JUNCTION BOX	XFMR	TRANSFORMER
ANT	ANTENNA	KVA	KILOVOLT-AMPERE		
AOBE	AS ORDERED BY THE ENGINEER	KW	KILOWATT		
ASPH	ASPHALT	LF	LINEAR FEET		
ATS	ATTACHED TO STRUCTURE	LP	LIGHT POLE		
AVE	AVENUE	L SUM	LUMP SUM		
BHD	BULKHEAD	LT	LEFT		
BIT	BITUMINOUS	M	METER		
BLK	BLOCK	MA	MAST ARM		
BR	BRIDGE	MD	MICROWAVE DETECTOR		
C	CONDUIT, CONDUCTOR	MM	MULTI-MODE		
CAB	CABINET	MW	MESSENGER WIRE		
CBW	CONCRETE BLOCK WALL	NB	NORTHBOUND		
CC	COMMUNICATIONS CENTER	NIC	NOT IN CONTRACT		
CCTV	CLOSED CIRCUIT TELEVISION	NM	NONMETALLIC		
CDOT	CDOT-CHICAGO DEPARTMENT OF TRANSPORTATION	NO	NUMBER		
COMED	COMED	NTS	NOT TO SCALE		
CKT	CIRCUIT	OH	OVERHEAD		
CLF	CHAIN LINK FENCE	PL	PROPERTY LINE		
CNC	COILABLE NONMETALLIC CONDUIT	PH	PHASE		
COMM	COMMUNICATIONS	PIN	PROJECT IDENTIFICATION NUMBER		
CONC	CONCRETE	PNL	PANEL		
CONST	CONSTRUCTION	PROP	PROPOSED		
CORR	CORRUGATED	PTZ	PAN-TILT-ZOOM		
CW	CONCRETE WALL	PEC	POLYETHYLENE CONDUIT		
☉	CENTERLINE	PVC	POLYVINYL CHLORIDE		
DB	DIRECT BURIED	PVCC	POLYVINYL CHLORIDE COATED		
DC	DIRECT CURRENT	R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNO)		
DF	DARK FIBER	RC	REINFORCED CONCRETE		
DIA	DIAMETER	RD	ROAD		
DMS	DYNAMIC MESSAGE SIGN	RGC	RIGID GALVANIZED STEEL CONDUIT		
DWG	DRAWING(S)	RM	RAMP METER		
E	EXISTING UNIT TO REMAIN	ROW	RIGHT OF WAY		
EA	EACH	RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED		
EB	EASTBOUND	RT	RIGHT		
ECA	ELECTRIC CABLE ASSEMBLY	RW	RETAINING WALL		
EL	ELEVATION	SB	SOUTHBOUND		
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST, OR MAST ARM)	SH	SHEET		
ER	EXISTING RELOCATED UNIT	SM	SINGLE MODE		
ET	EXISTING TEMPORARY UNIT TO REMAIN OR MODIFIED	SS	STAINLESS STEEL		
ETP	EMERGENCY TRAFFIC PATROL	ST	STREET		
ETR	EXISTING TEMPORARY RELOCATED UNIT	STA	STATION		
EXCAV	EXCAVATION	STD	STANDARD		
F, FT	FOOT, FEET	STL	STEEL		
FDN	FOUNDATION	STRUCT	STRUCTURE		
FO	FIBER OPTIC	SURF	SURFACE		
GM	GROUND MOUNTED	SURV	SURVEILLANCE		
GND, GRD	GROUND	SW	SIDEWALK		
GR	GUARD RAIL	T	TEMPORARY		
GSC	GALVANIZED STEEL CONDUIT	TAN	TANGENT		
HAR	HIGHWAY ADVISORY RADIO	TC	TRAY CABLE		
HD	HEAVY DUTY	TEL	TELEPHONE		
HH	HANDHOLE	TS	TRAFFIC SIGNAL		
HPS	HIGH PRESSURE SODIUM	TSC	TRAFFIC SYSTEMS CENTER		
HYD	HYDRANT	TYP	TYPICAL		
I	INTERSTATE	UD	UNIT DUCT		
		UND	UNDERDRAIN		
		UNO	UNLESS NOTED OTHERWISE		
		V	VOLT		
		W	WATT		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	334
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2324.6-1P) R-11			

EI-101

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ELECTRICAL ABBREVIATIONS

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

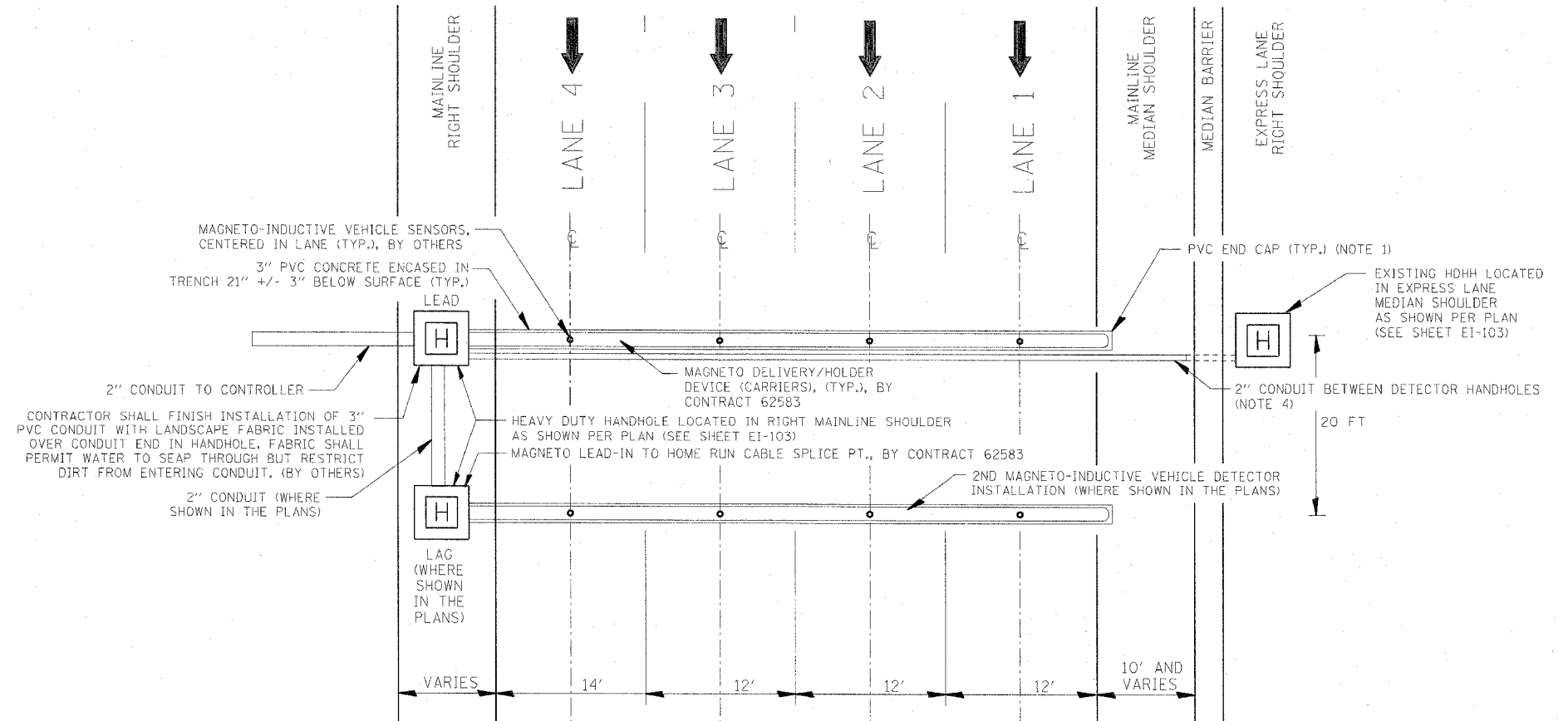


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F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 335
STA.		TO STA.		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		

NOTES:

1. CONDUIT END CAP TO BE PRESS FITTED (NO ADHESIVE).
2. CONDUIT TO EXTEND 2-3 IN. INTO HANDHOLE.
3. FOR 3" PVC CONCRETE ENCASED IN TRENCH DETAIL, SEE SHEET EI-103. FOR HANDHOLE DETAIL, SEE SHEET EI-104.
4. CONNECT PROPOSED 2" RGC TO EXISTING 2" RGC (SEE ELECTRICAL INFRASTRUCTURE SHEETS FOR EXISTING CONDUIT LOCATIONS AND ELEVATIONS).



DAN RYAN TYPICAL MULTI-LANE CROSS SECTION WITH NON-INVASIVE MAGNETO-INDUCTIVE VEHICLE SENSOR (PROBE) INSTALLED IN ALL LANES

EI-102

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
TYPICAL LOCAL LANE
DETECTOR STATION LAYOUT

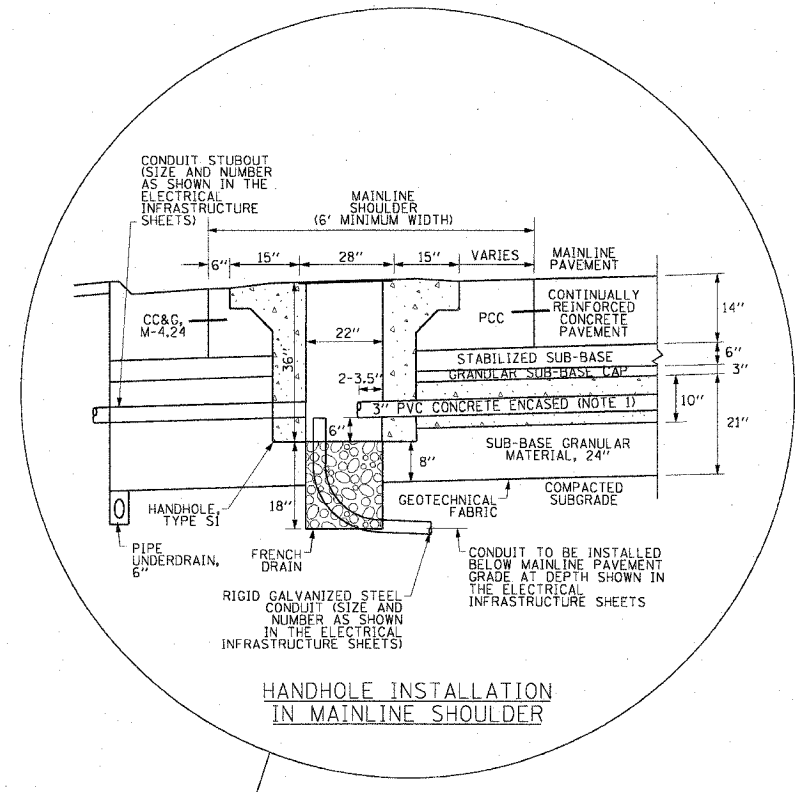
SCALE: NOT TO SCALE
DATE: June 9, 2006

DRAWN BY: HAR
CHECKED BY: JPC

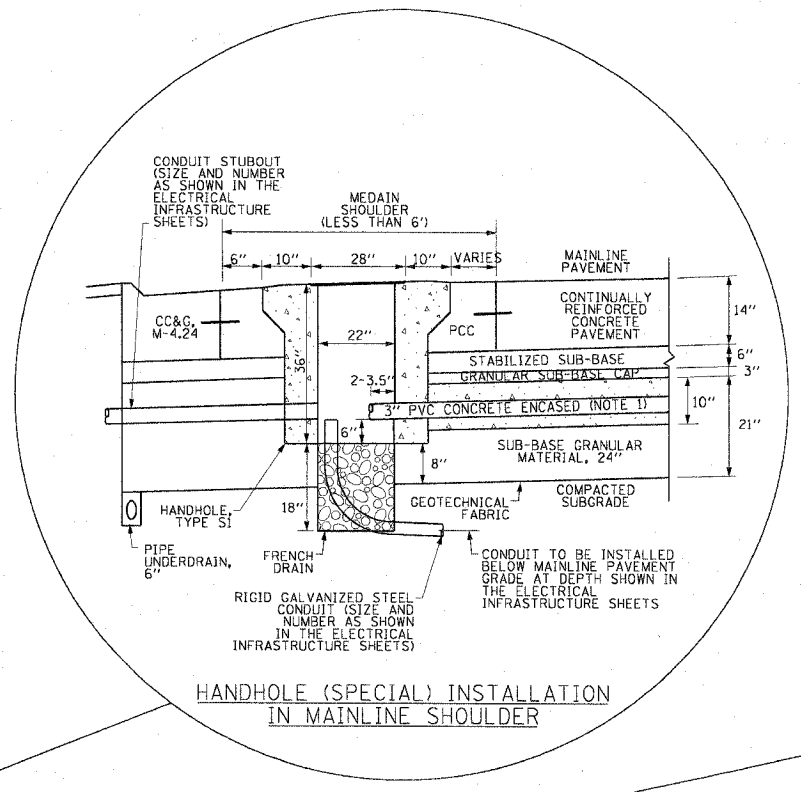
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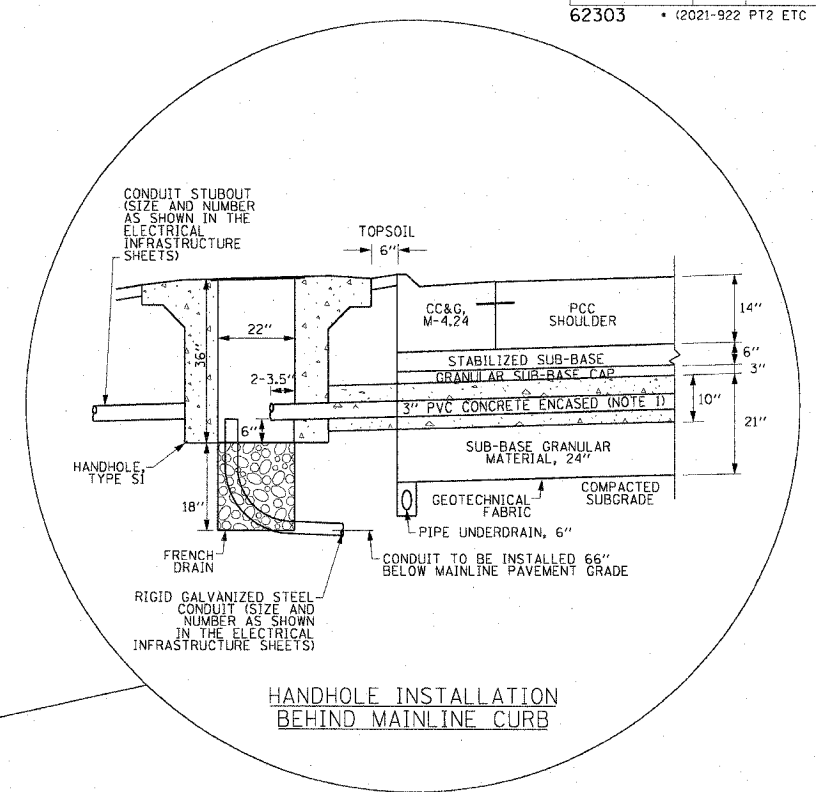
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	336
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



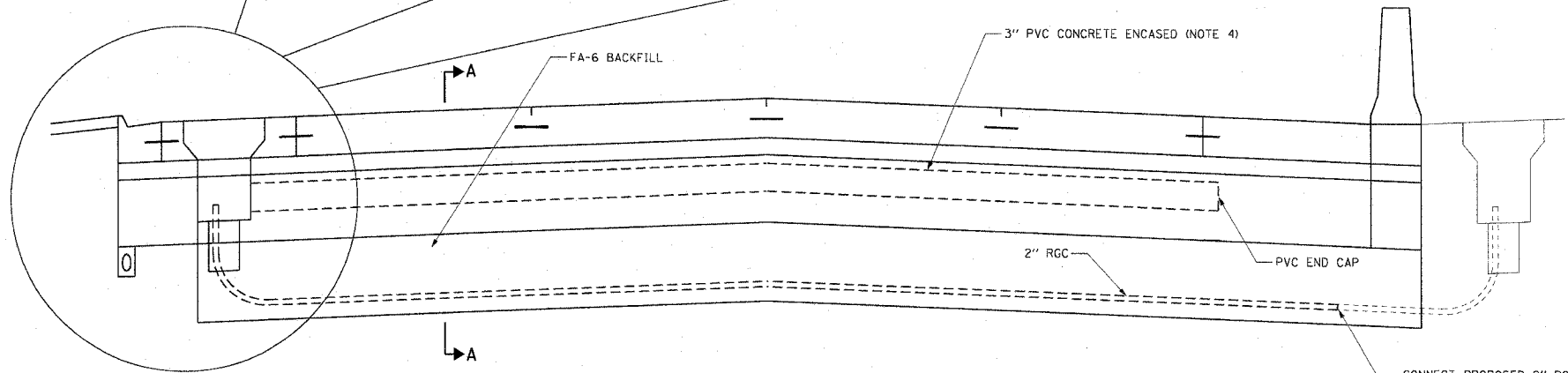
HANDHOLE INSTALLATION IN MAINLINE SHOULDER



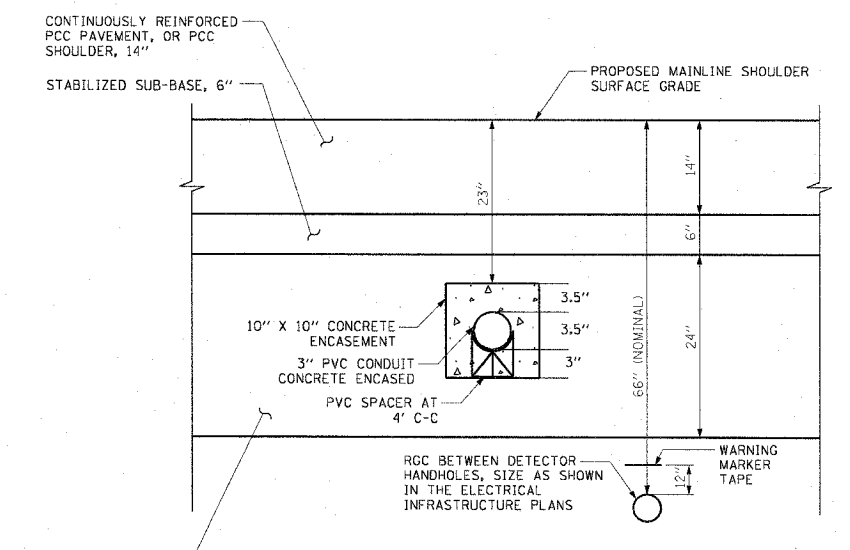
HANDHOLE (SPECIAL) INSTALLATION IN MAINLINE SHOULDER



HANDHOLE INSTALLATION BEHIND MAINLINE CURB



TYPICAL MAINLINE DETECTOR INSTALLATION



SECTION A-A TYPICAL DETECTOR CONDUIT INSTALLATION

- NOTES
- 3" PVC CONCRETE ENCASED CONDUIT IS REQUIRED ONLY WHERE SHOWN ON THE PLAN DRAWINGS. WHEN INSTALLED, THE CONDUIT MUST MAINTAIN THE SAME ANGLE AS THE PAVEMENT THROUGHOUT ITS ENTIRE LENGTH.
 - FOR HANDHOLE DETAIL SEE SHEET EI-104.
 - WHEN INSTALLING CONDUIT NEAR OR THROUGH UNDERDRAIN GEOTECHNICAL FABRIC, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND UNIFORMITY OF THE UNDERDRAIN FABRIC THROUGH OVERLAP TO THE SATISFACTION OF THE ENGINEER.

CONNECT PROPOSED 2" RGC TO EXISTING 2" RGC (SEE ELECTRICAL INFRASTRUCTURE SHEETS FOR EXISTING CONDUIT LOCATIONS AND ELEVATIONS)

CTE | AECOM

REVISIONS	
NAME	DATE

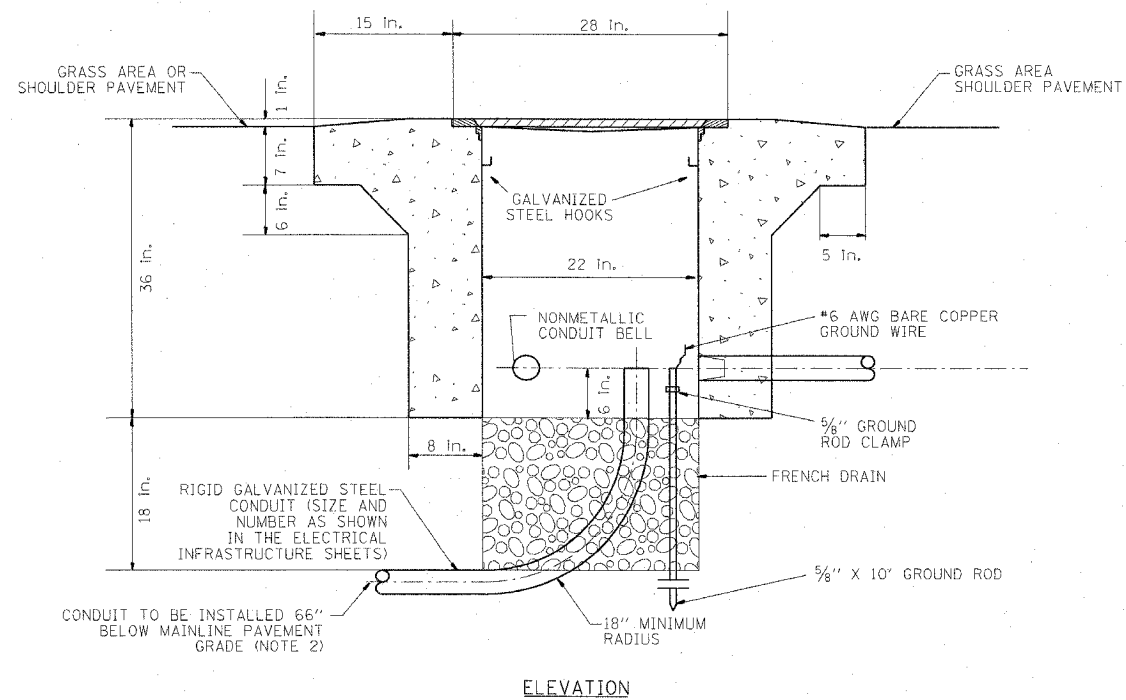
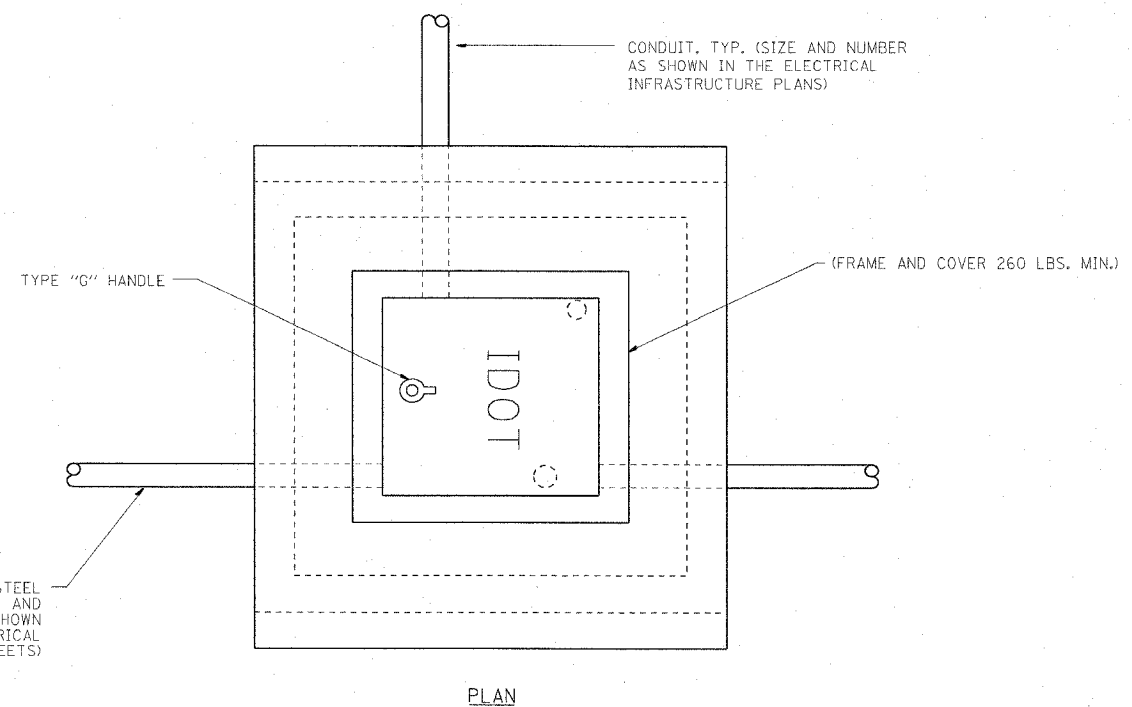
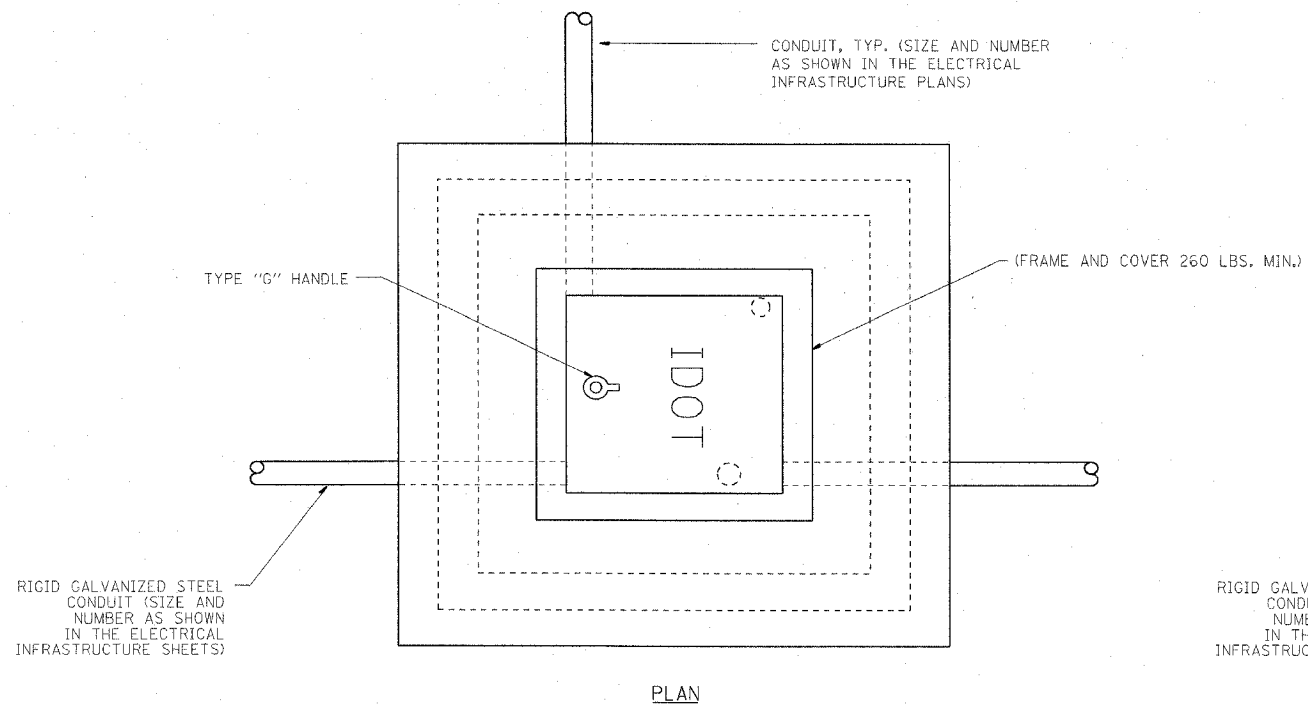
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 TYPICAL DETECTOR
 INSTALLATION

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

EI-103

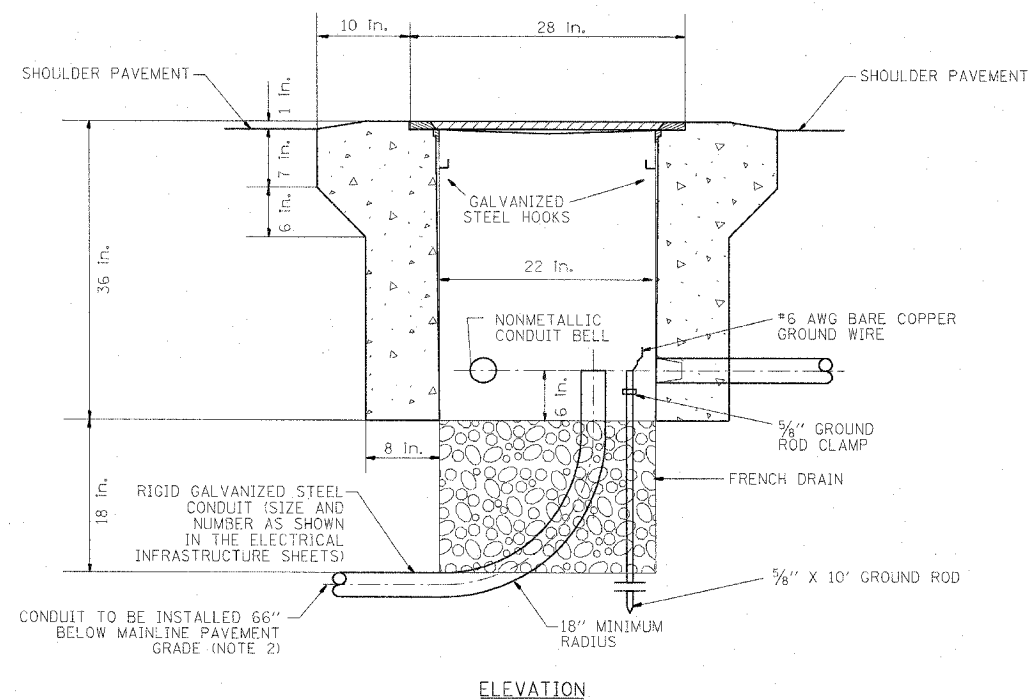
06/07/2006 09:56:59 AM
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	337
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		



**PC CONCRETE
HEAVY DUTY HANDHOLE, TYPE S1**

(FOR INSTALLATION IN SHOULDER WIDER THAN 6' OR BEHIND PAVED AREA)



**PC CONCRETE
HEAVY DUTY HANDHOLE, TYPE S1 (SPECIAL)**

(FOR INSTALLATION IN SHOULDER NARROWER THAN 6', 4' MINIMUM WIDTH)

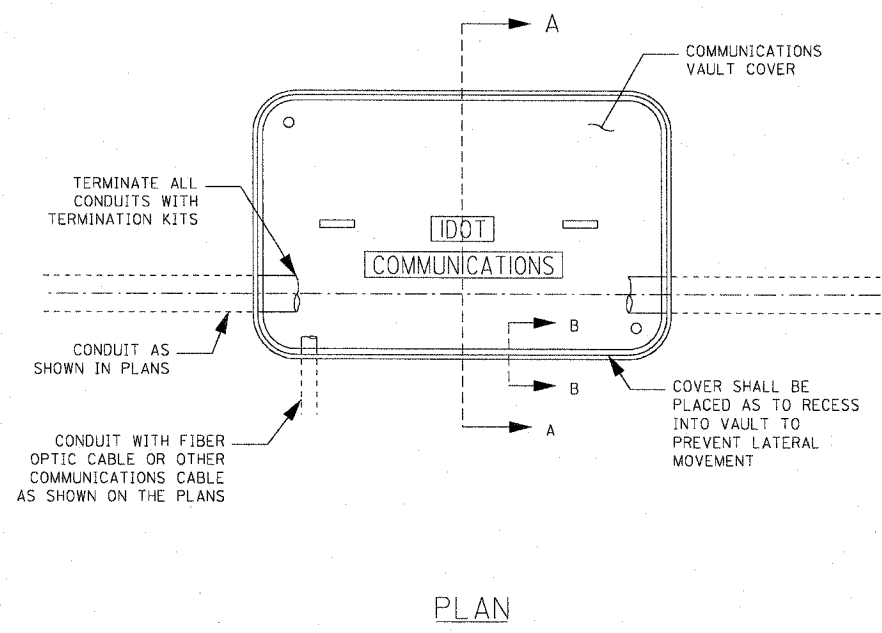
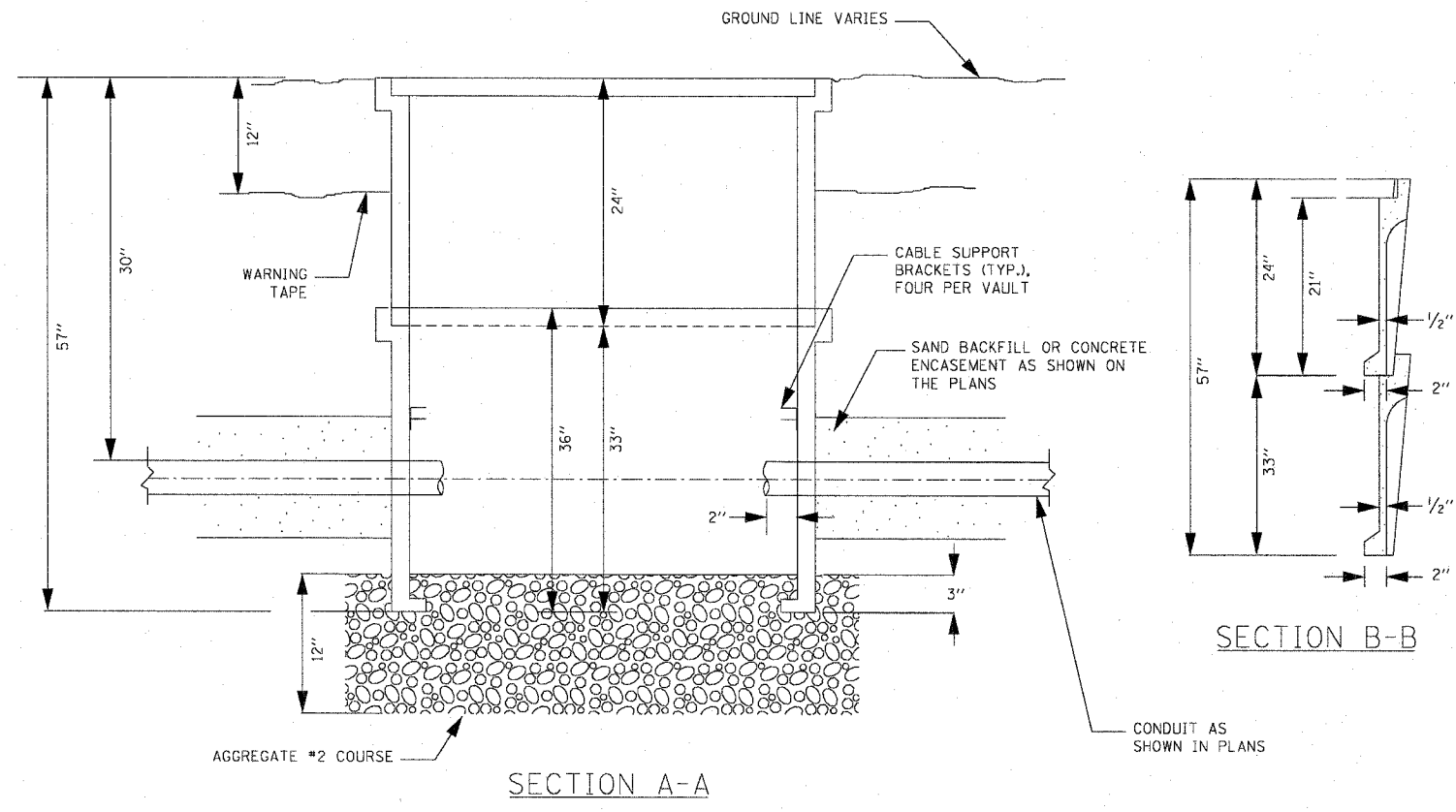
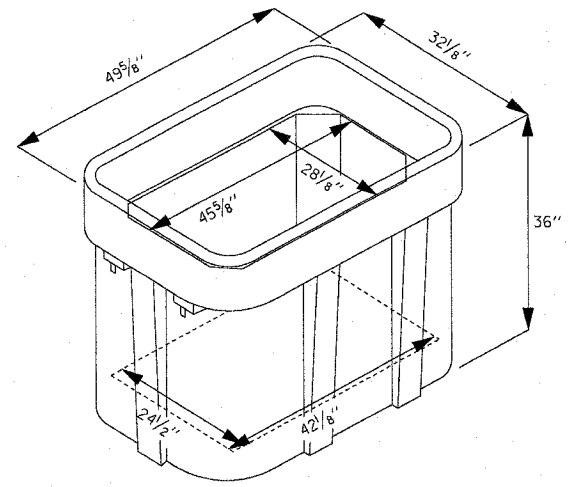
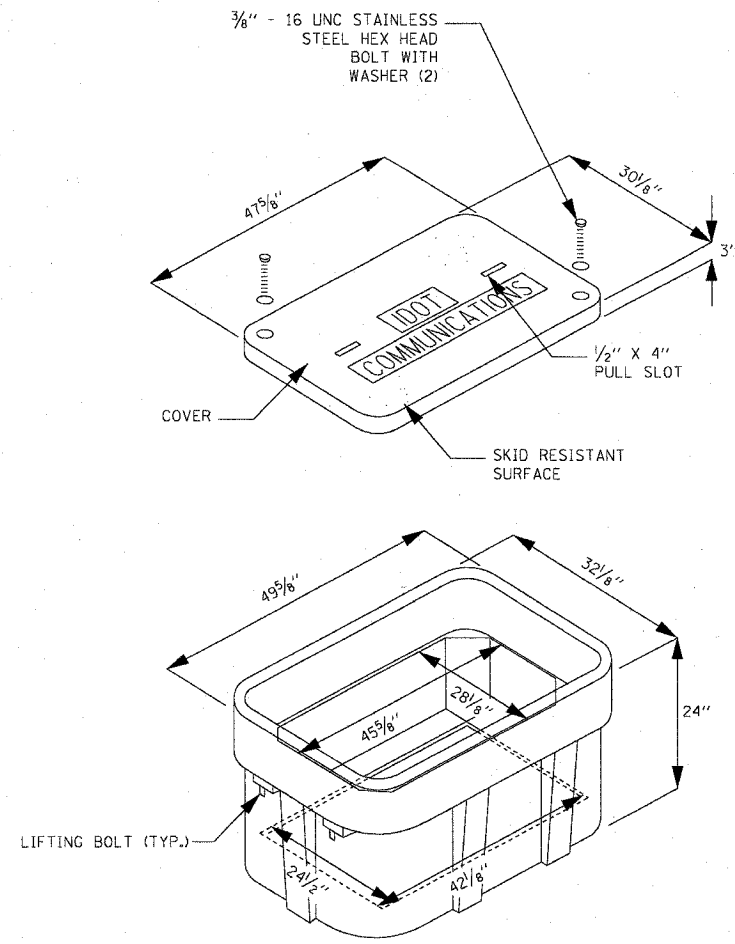
- NOTE:**
1. ALL METALLIC ELEMENTS SHALL BE GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), SECTION 250, GROUNDING, METAL COVERS AND OTHER EXPOSED CONDUCTIVE SURFACES SHALL BE BONDED IN ACCORDANCE WITH NEC ARTICLE 250.96 (A).
 2. CONDUIT TO BE INSTALLED BELOW MAINLINE PAVEMENT WHERE SHOWN IN THE ELECTRICAL INFRASTRUCTURE PLANS (SEE SHEET EI-103).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
**PC CONCRETE - HEAVY
DUTY HANDHOLE DETAIL,
TYPE S1 AND TYPE S1 (SPECIAL)**

SCALE: NOT TO SCALE
DATE: June 9, 2006
DRAWN BY: HAR
CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	588	338
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			



- NOTES:
1. BOX SHALL HAVE AN OPEN BASE.
 2. COVER SHALL BE TYPE HA AND SHALL LOCK.
 3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT.
 4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.

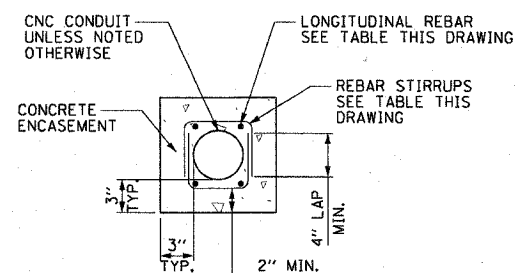
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) COMMUNICATIONS VAULT DETAILS (HANDHOLE TYPE C1)
NAME	DATE	
SCALE: NTS	DRAWN BY: HAR	EI-105
DATE: June 9, 2006	CHECKED BY: JEC	

CTE | AECOM

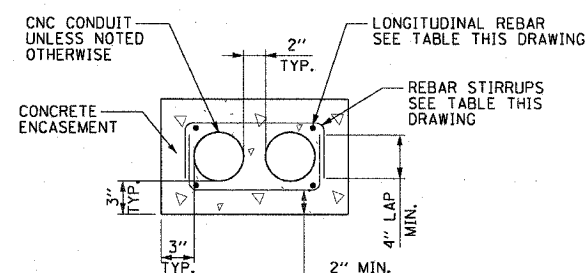
px:040466velecN8-contrs 18 & 19\contract 19\stn\919052\stn

06/07/2006 09:59:00 AM

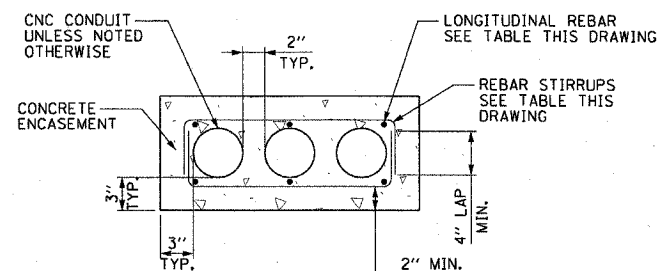
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	339
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		



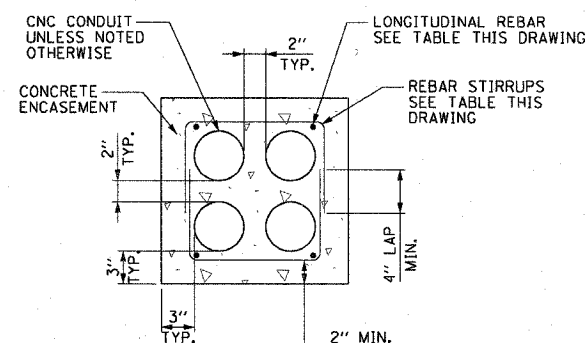
**1x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
NOT TO SCALE



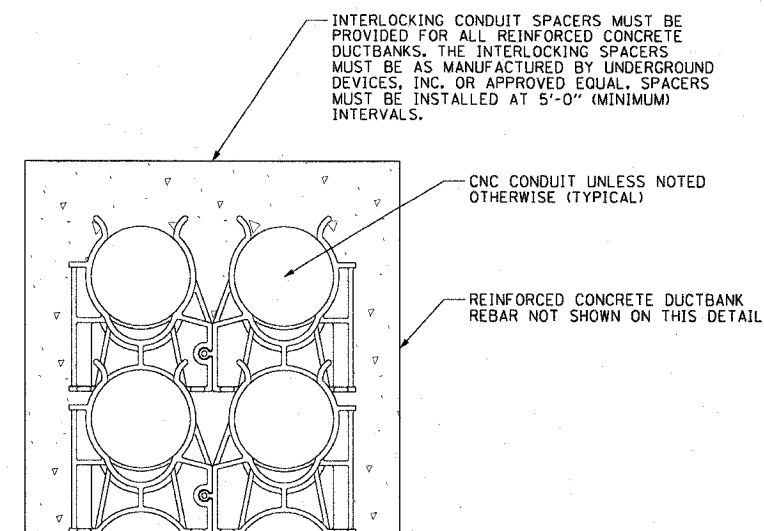
**2x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
NOT TO SCALE



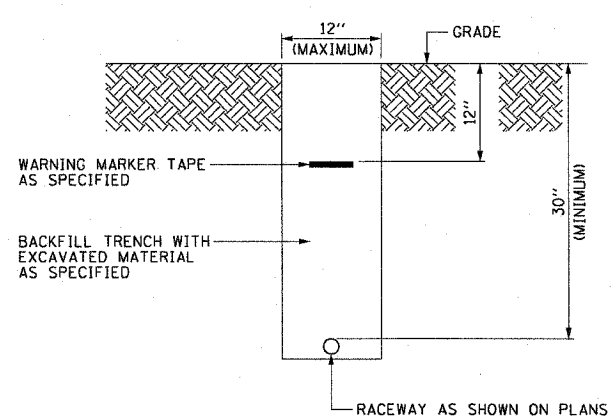
**3x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
NOT TO SCALE



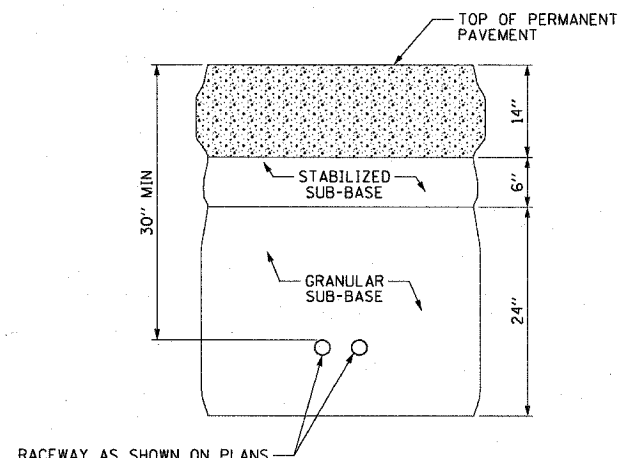
**2x2 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
NOT TO SCALE



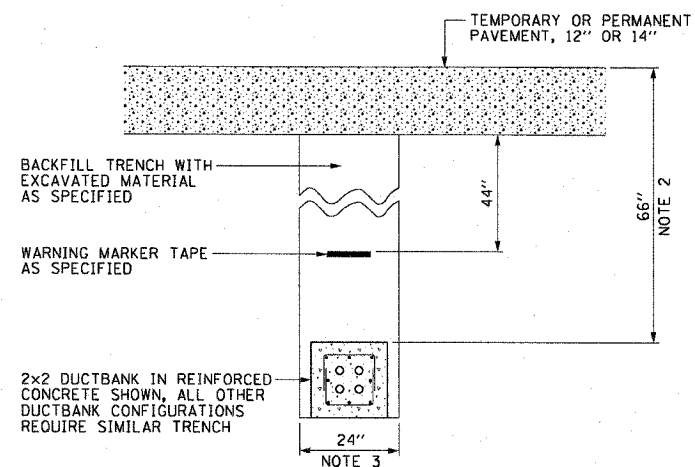
INTERLOCKING CONDUIT SPACER DETAIL
NOT TO SCALE



**TYPICAL ELECTRICAL
CONDUIT IN UNPAIRED AREA**
NOT TO SCALE



**TYPICAL SURVEILLANCE
CONDUIT UNDER PERMANENT PAVEMENT**
NOT TO SCALE



**TYPICAL ELECTRICAL
DUCTBANK UNDER PAVEMENT**
NOT TO SCALE

NOTES:

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- PROVIDE MINIMUM CLEARANCE SHOWN FROM TOP OF DUCTBANK TO FINISHED GRADE FOR ALL DUCTBANKS, REGARDLESS OF SIZE. CONTRACTOR MUST INSTALL DUCTBANKS SUCH THAT THEY WILL CLEAR ALL UNDERGROUND OBSTACLES.
- TRENCH MUST HAVE MINIMUM WIDTH SHOWN FOR ALL DUCTBANKS DETAILED ON THIS DRAWING. THE CONTRACTOR MUST INCREASE TRENCH WIDTH FOR ADDITIONAL CONDUITS, AS DIRECTED BY THE COMMISSIONER, AT NO ADDITIONAL COST.
- NOT ALL DUCTBANK CONFIGURATIONS ARE SHOWN. ALL DUCTBANKS INSTALLED UNDER THIS CONTRACT WILL CONFORM TO THE TYPICAL SPACINGS SHOWN ON THIS DRAWING.

DUCTBANK CONCRETE CROSS-SECTIONAL AREA SQ. INCHES	LONGITUDINAL REBAR	REBAR STIRRUPS
	BAR	
LESS THAN 450	#4	#3 AT 12" SPACING
451 TO 650	#5	#3 AT 12" SPACING
GREATER THAN 651	#6	#3 AT 12" SPACING

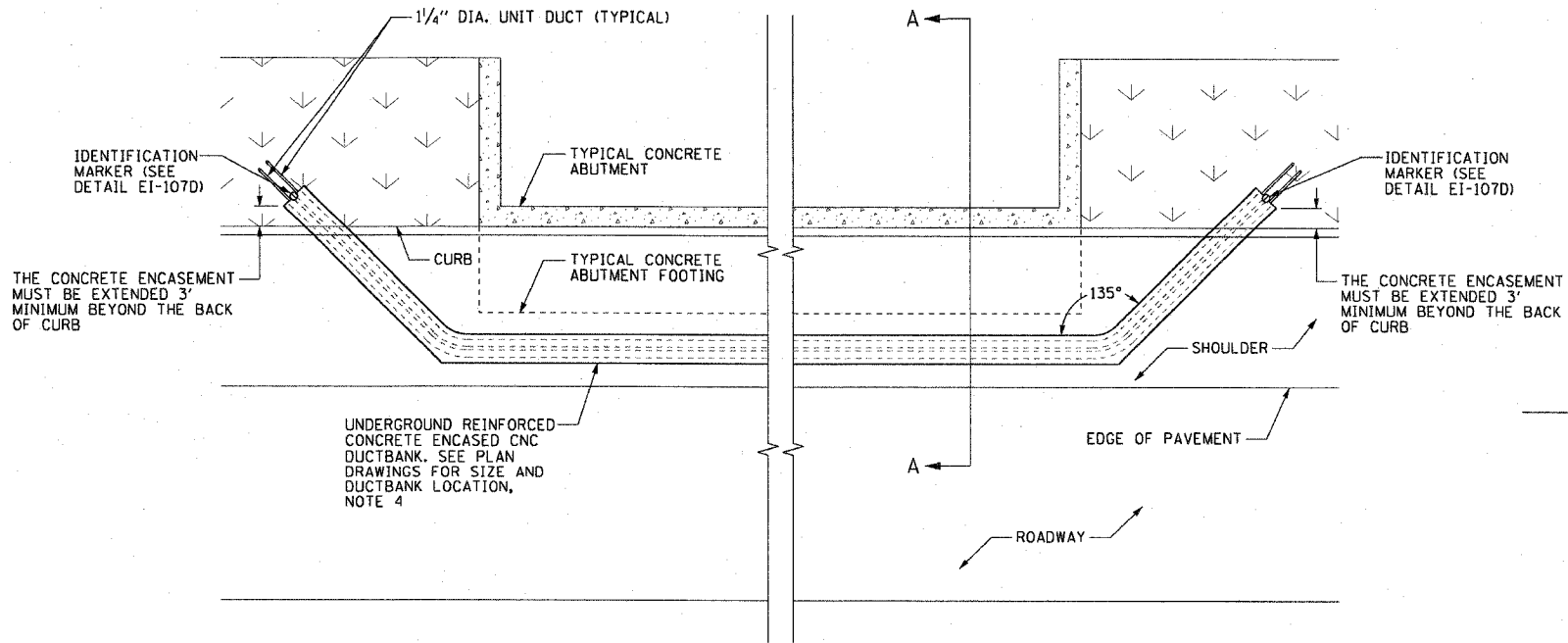
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

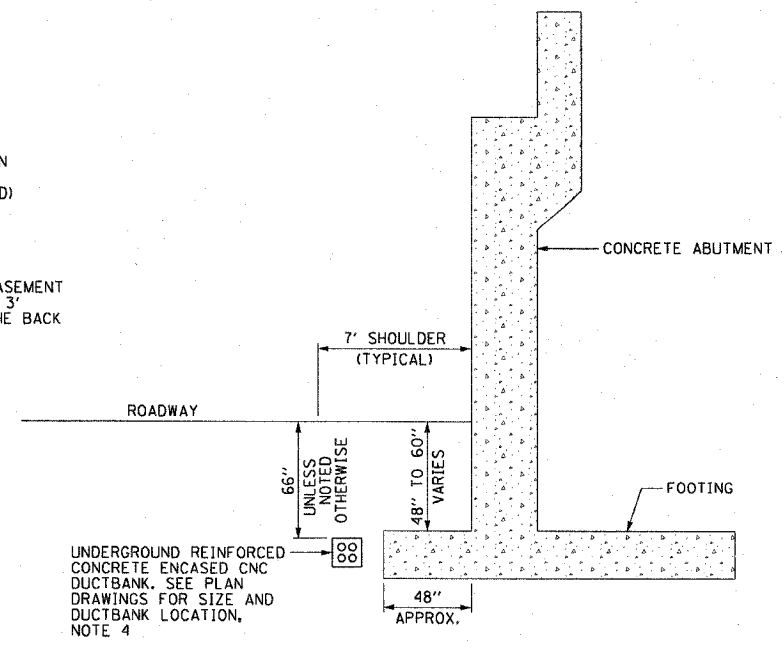
ELECTRICAL DUCTBANK DETAILS

SCALE: NOT TO SCALE
DATE: June 9, 2006
DRAWN BY: HAR
CHECKED BY: JEC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	340
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

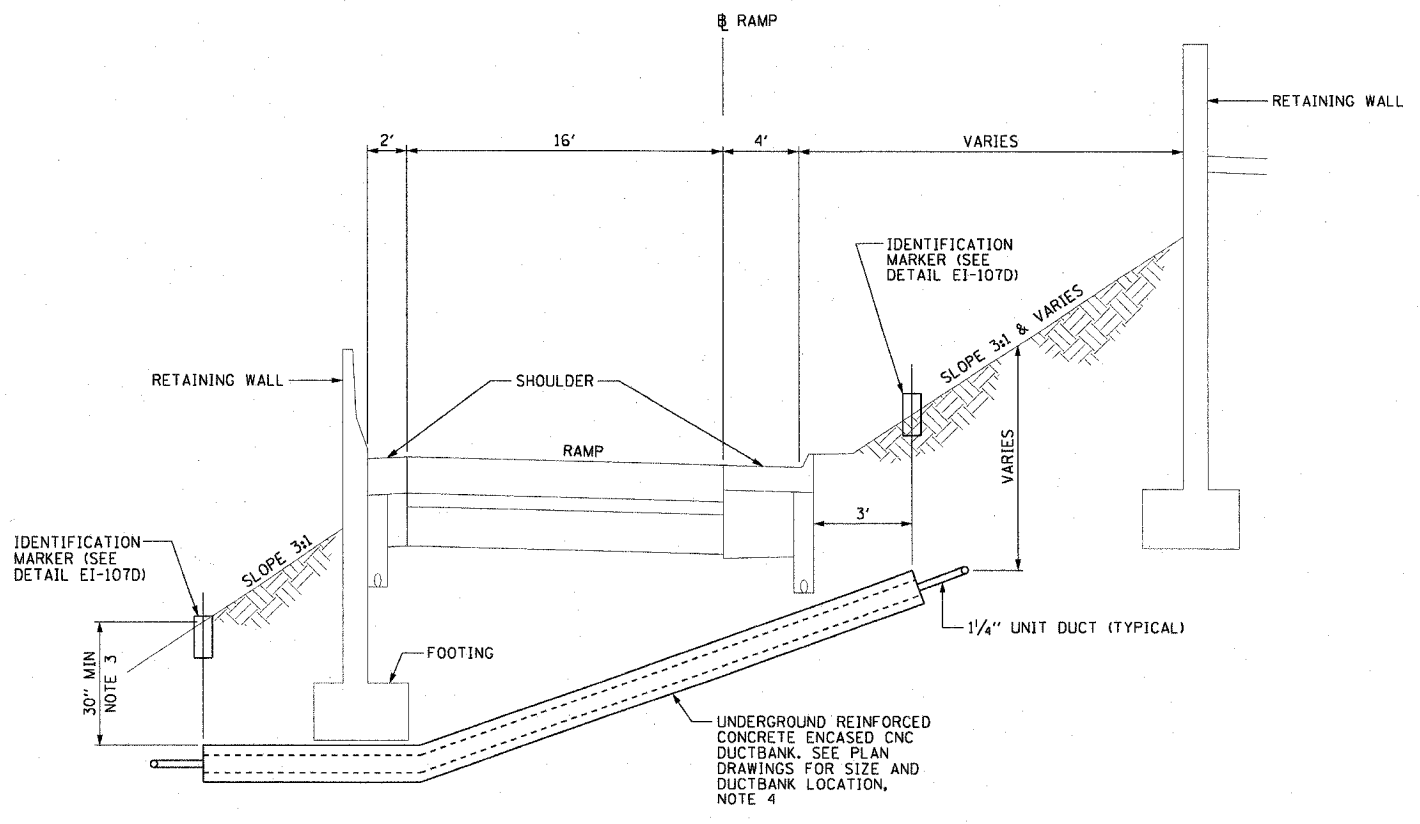


EI-107A DUCTBANK ROUTING AROUND VAULTED BRIDGE ABUTMENT
SCALE: 1/4" = 1'-0"

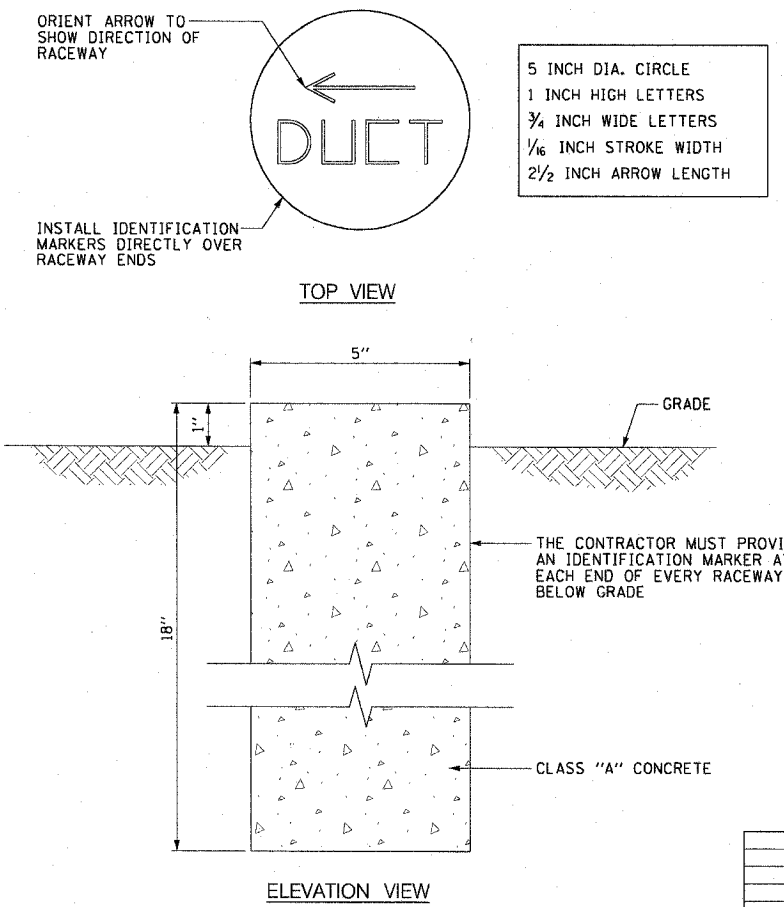


EI-107B DUCTBANK INSTALLATION DETAIL A-A
SCALE: 1/4" = 1'-0"

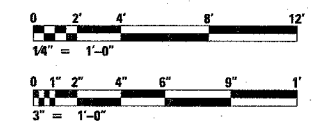
- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
 - DUCTBANK DEPTH MUST BE ADJUSTED SUCH THAT THE TOP OF CONCRETE ENCASEMENT IS INSTALLED UNDER THE RETAINING WALL FOOTING. FOR SOLDIER PILE TYPE RETAINING WALLS THE DUCTBANK IS ROUTED BETWEEN PILES. THE DUCTBANK DEPTH MUST BE 30 INCHES MINIMUM.
 - SEE DRAWING EI-106 FOR ELECTRICAL CONCRETE DUCTBANK DETAILS.
 - SEE PLAN DRAWINGS FOR ANY DEVIATIONS IN DUCTBANK DEPTH.



EI-107C TYPICAL CONCRETE ENCASED CNC UNDER RAMP INSTALLATION DETAIL
NOT TO SCALE



EI-107D IDENTIFICATION MARKER DETAIL
SCALE: 3" = 1'-0"



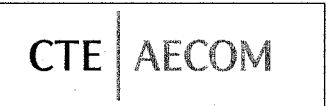
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**DUCTBANK INSTALLATION DETAILS
UNDER RAMP AND AROUND
ABUTMENTS**

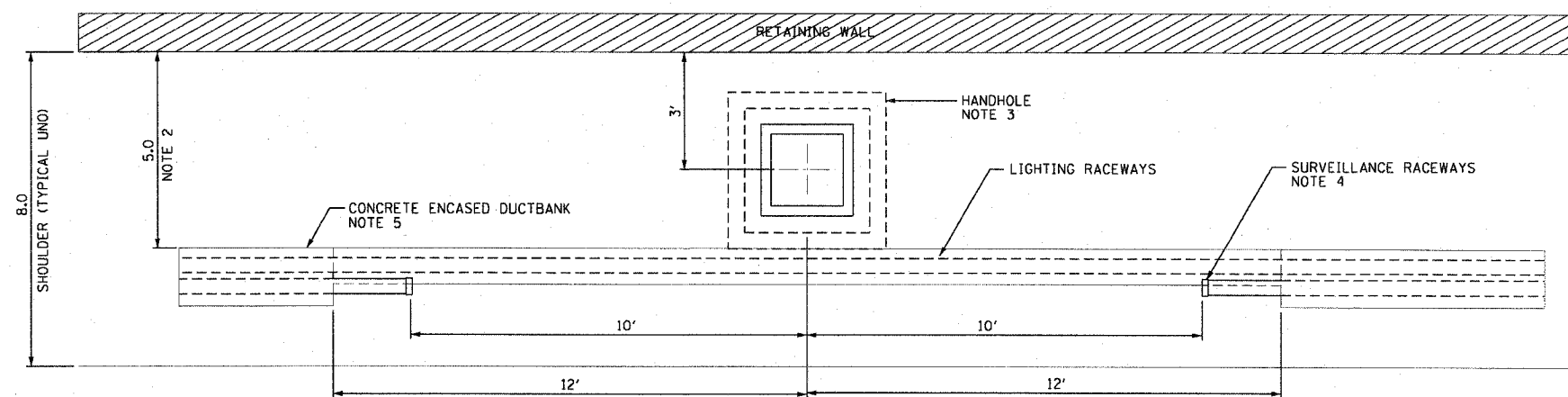
SCALE: AS SHOWN
DATE: June 9, 2006

DRAWN BY: HAR
CHECKED BY: JPC

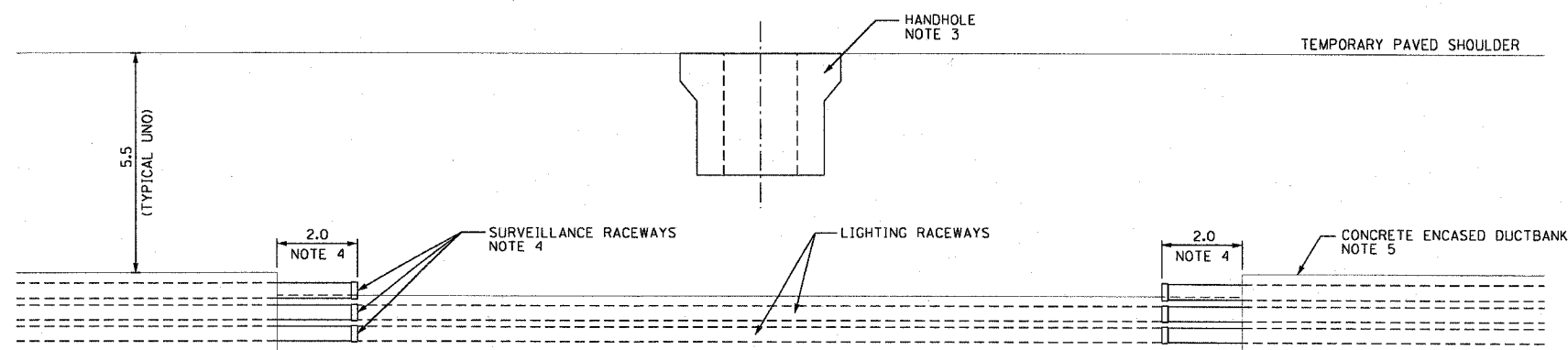


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	588	341
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		



TOP VIEW



ELEVATION VIEW

NOTES:

- SEE DRAWING EI-106 FOR ELECTRICAL DUCTBANK DETAILS.
- THE DISTANCE IS MEASURED FROM THE FRONT FACE OF RETAINING WALL TO THE FACE OF DUCTBANK.
- THE HANDHOLE WILL BE INSTALLED CONTRACT 62303. THE PLANS SHOW THE ANTICIPATED LOCATIONS OF PROPOSED HANDHOLES. THIS SHEET IS INCLUDED TO PROVIDE THE CONTRACTOR WITH ANTICIPATED EXISTING CONDITIONS. DUCTBANK SHOWN WAS INSTALLED IN CONTRACT 62586.
- THE SURVEILLANCE RACEWAYS SHOULD BE STUBBED OUT FROM THE CONCRETE ENCASEMENT AND CAPPED AS SHOWN. THE DUCTBANK REINFORCING REBAR SHOULD ALSO BE EXTENDED OUT FROM THE CONCRETE ENCASEMENT A MINIMUM OF 2 FEET AS SHOWN.
- DUCTBANK WAS LOCATED 5 FEET FROM THE FACE OF WALL TO AVOID CONFLICTS WITH PROPOSED AND FUTURE DRAINAGE STRUCTURES.

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
**EXISTING DUCTBANK
 INSTALLATION DETAILS
 AT PROPOSED HANDHOLE**
 SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JEC

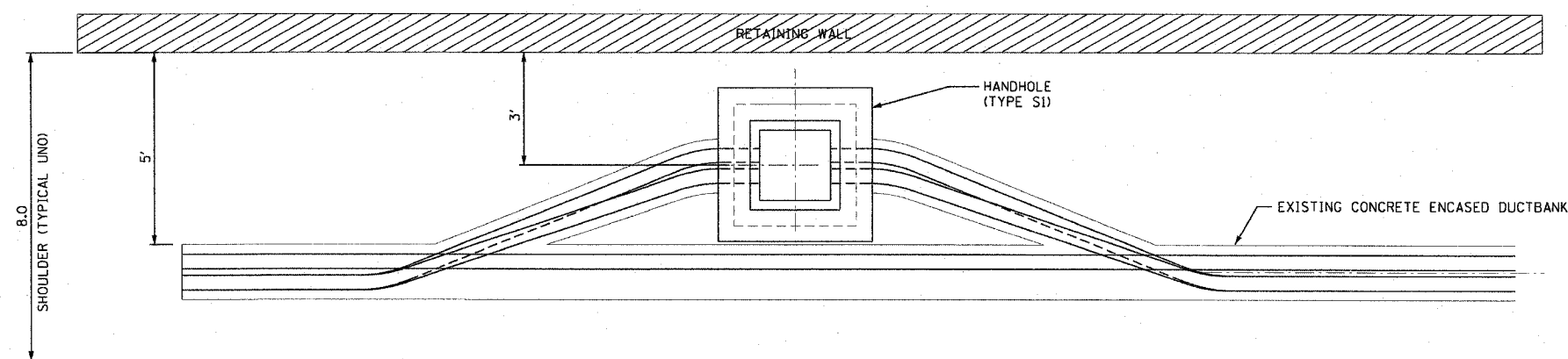
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06/07/2006 09:59:01 AM

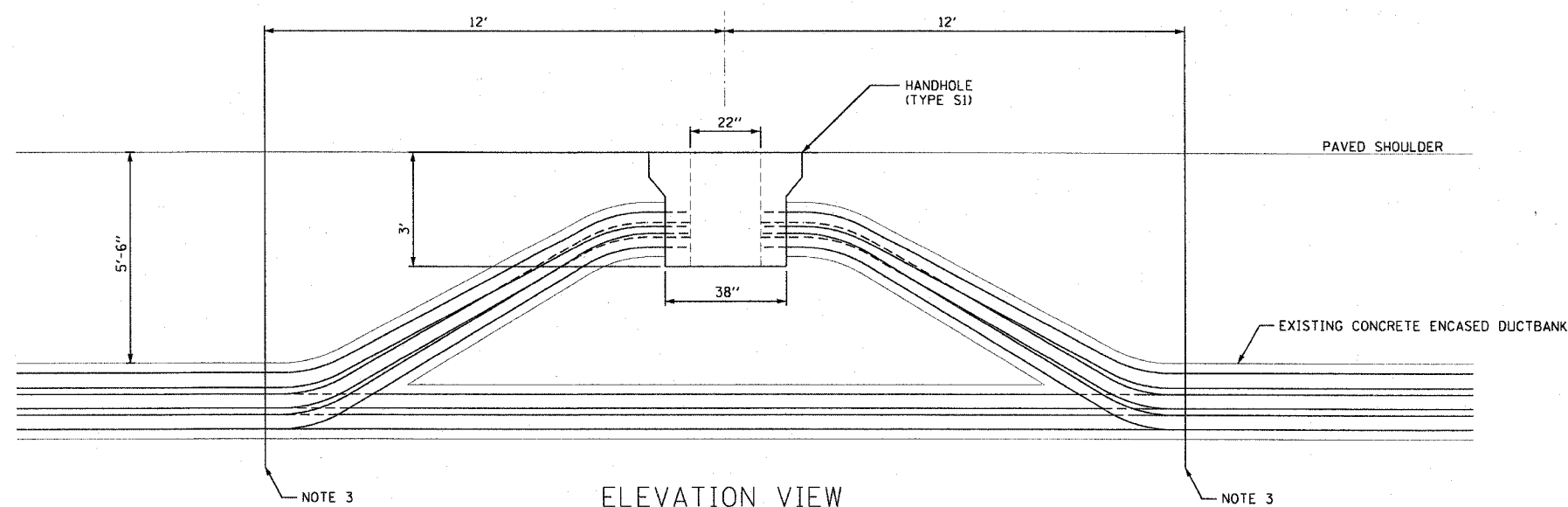
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	342
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-IP) R-11			

NOTES:

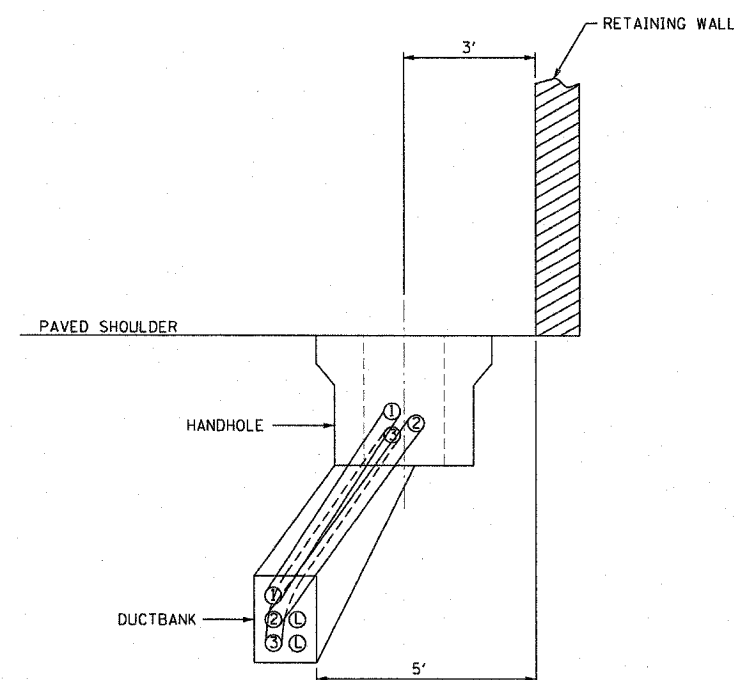
1. SEE DRAWING EI-106 FOR ELECTRICAL DUCTBANK DETAILS.
2. SEE DRAWING EI-108 FOR EXISTING CONDITIONS.
3. EXTEND 4" RACEWAYS FROM EXISTING DUCTBANK TO HANDHOLE. COORDINATE WORK WITH SHOULDER CONSTRUCTION. ALL CONDUIT SHALL BE ENCASED IN REINFORCED CONCRETE.
4. ADJUST HANDHOLE LOCATION AS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS. FINAL LOCATION MUST BE APPROVED BY THE ENGINEER.



TOP VIEW



ELEVATION VIEW



SIDE VIEW

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 DUCTBANK ROUTING
 INTO HANDHOLE

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JEC

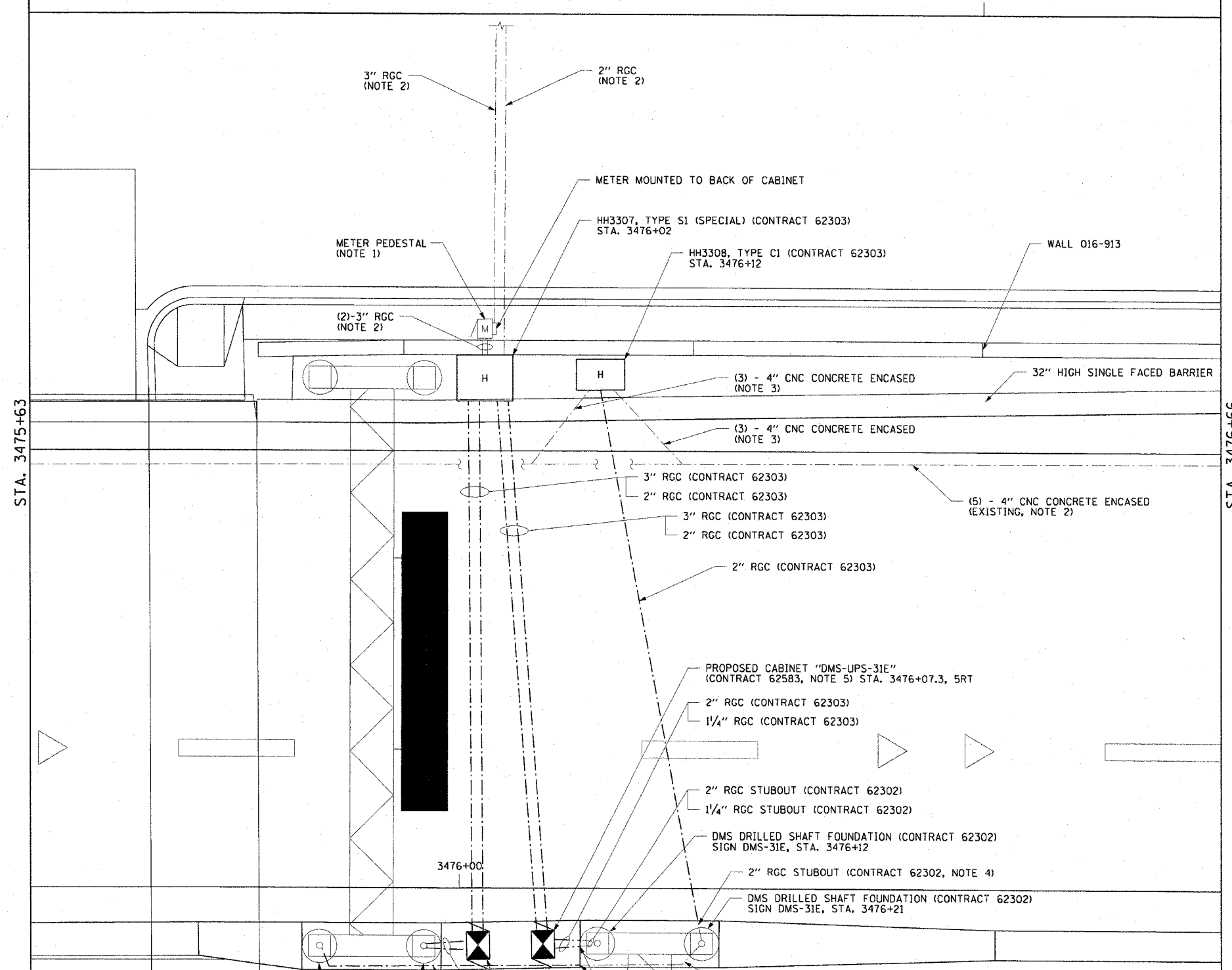
EI-109

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	343
STA. 561+18		TO STA. 562+20		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

WELLS STREET

562+00



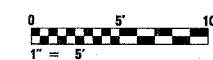
NOTES:

- METER PEDESTAL INSTALLED IN CONTRACT 62583.
- RIGID GALVANIZED CONDUITS INSTALLED IN CONTRACT 62586.
- CNC CONCRETE ENCASED DUCTBANK INSTALLED IN CONTRACT 62586.
- CONNECT PROPOSED CONDUITS TO CONDUIT STUB-OUTS PROVIDED IN DMS SUPPORT FOUNDATION INSTALLED IN CONTRACT 62302.
- COORDINATE EXACT STUB-UP LOCATION FOR CONDUITS FOR DMS CABINETS WITH CONTRACT 62583.
- PROVIDE FOUR 24" LONG, 3/4" DIAMETER ANCHOR RODS FOR EACH DMS CABINET. COORDINATE LOCATION WITH CONTRACT 62583.

STA. 3475+63

STA. 3476+66

3476+00



EI-110

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 55TH STREET DETAIL SKETCH

SCALE: 1"=5'
 DATE: June 9, 2006
 DRAWN BY: BMW
 CHECKED BY: BMW

CTE | AECOM

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62303)
 SIGN DMS-31E, STA. 3475+97

NOTE 4
 PROPOSED CABINET "DMS-LPS-31L"
 (CONTRACT 62583, NOTE 5) STA. 3476+01.5, 5RT
 2" RGC (CONTRACT 62303)
 1/4" RGC (CONTRACT 62303)
 1/4" RGC (CONTRACT 62303)

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62303)
 SIGN DMS-31L, STA. 3475+88

PROPOSED CABINET "DMS-LPS-31E"
 (CONTRACT 62583, NOTE 5) STA. 3476+07.3, 5RT
 2" RGC (CONTRACT 62303)
 1/4" RGC (CONTRACT 62303)

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62302)
 SIGN DMS-31E, STA. 3476+12

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62302)
 SIGN DMS-31E, STA. 3476+21

3" RGC (CONTRACT 62303)
 2" RGC (CONTRACT 62303)
 3" RGC (CONTRACT 62303)
 2" RGC (CONTRACT 62303)

(3) - 4" CNC CONCRETE ENCASED
 (NOTE 3)
 (3) - 4" CNC CONCRETE ENCASED
 (NOTE 3)

(5) - 4" CNC CONCRETE ENCASED
 (EXISTING, NOTE 2)

METER PEDESTAL
 (NOTE 1)

(2) - 3" RGC
 (NOTE 2)

3" RGC
 (NOTE 2)

2" RGC
 (NOTE 2)

HH3307, TYPE S1 (SPECIAL) (CONTRACT 62303)
 STA. 3476+02

HH330B, TYPE C1 (CONTRACT 62303)
 STA. 3476+12

METER MOUNTED TO BACK OF CABINET

WALL 016-913

32" HIGH SINGLE FACED BARRIER

3" RGC (CONTRACT 62303)

2" RGC (CONTRACT 62303)

3" RGC (CONTRACT 62303)

2" RGC (CONTRACT 62303)

2" RGC (CONTRACT 62303)

PROPOSED CABINET "DMS-LPS-31E"
 (CONTRACT 62583, NOTE 5) STA. 3476+07.3, 5RT

2" RGC (CONTRACT 62303)

1/4" RGC (CONTRACT 62303)

2" RGC STUBOUT (CONTRACT 62302)

1/4" RGC STUBOUT (CONTRACT 62302)

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62302)
 SIGN DMS-31E, STA. 3476+12

2" RGC STUBOUT (CONTRACT 62302, NOTE 4)

DMS DRILLED SHAFT FOUNDATION (CONTRACT 62302)
 SIGN DMS-31E, STA. 3476+21

1/4" RGC STUBOUT (CONTRACT 62302)

PROPOSED CABINET "DMS-LPS-31L"
 (CONTRACT 62583, NOTE 5) STA. 3476+01.5, 5RT

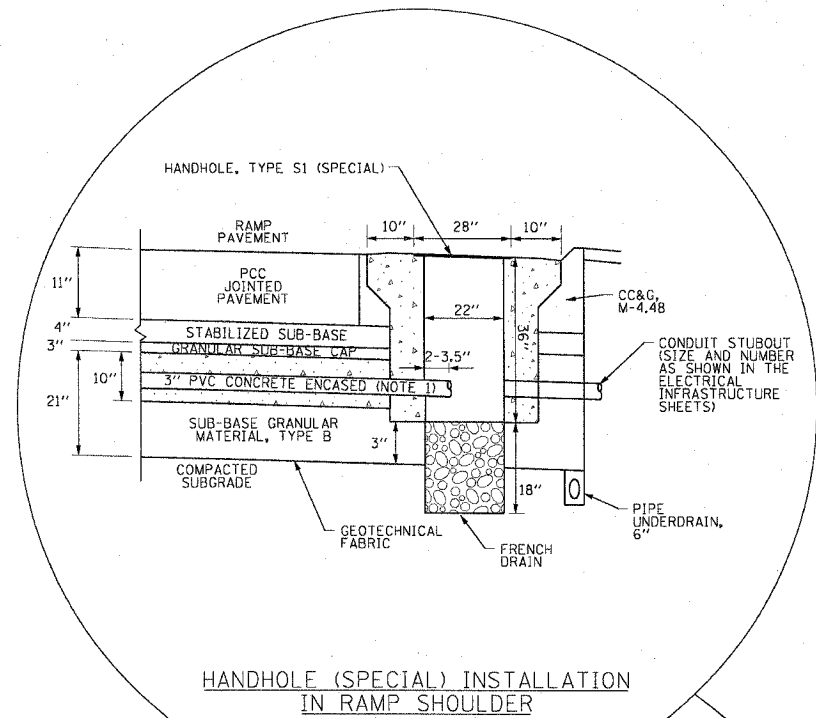
2" RGC (CONTRACT 62303)

1/4" RGC (CONTRACT 62303)

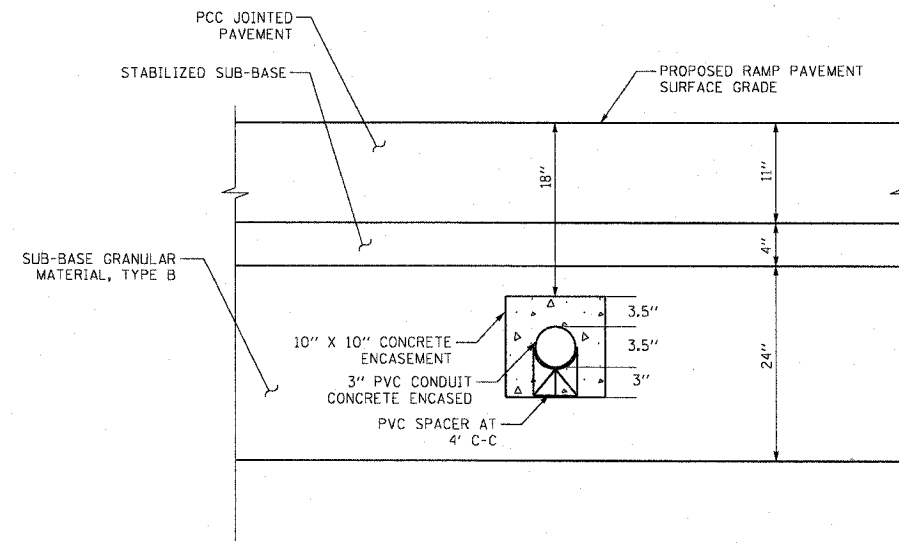
1/4" RGC (CONTRACT 62303)

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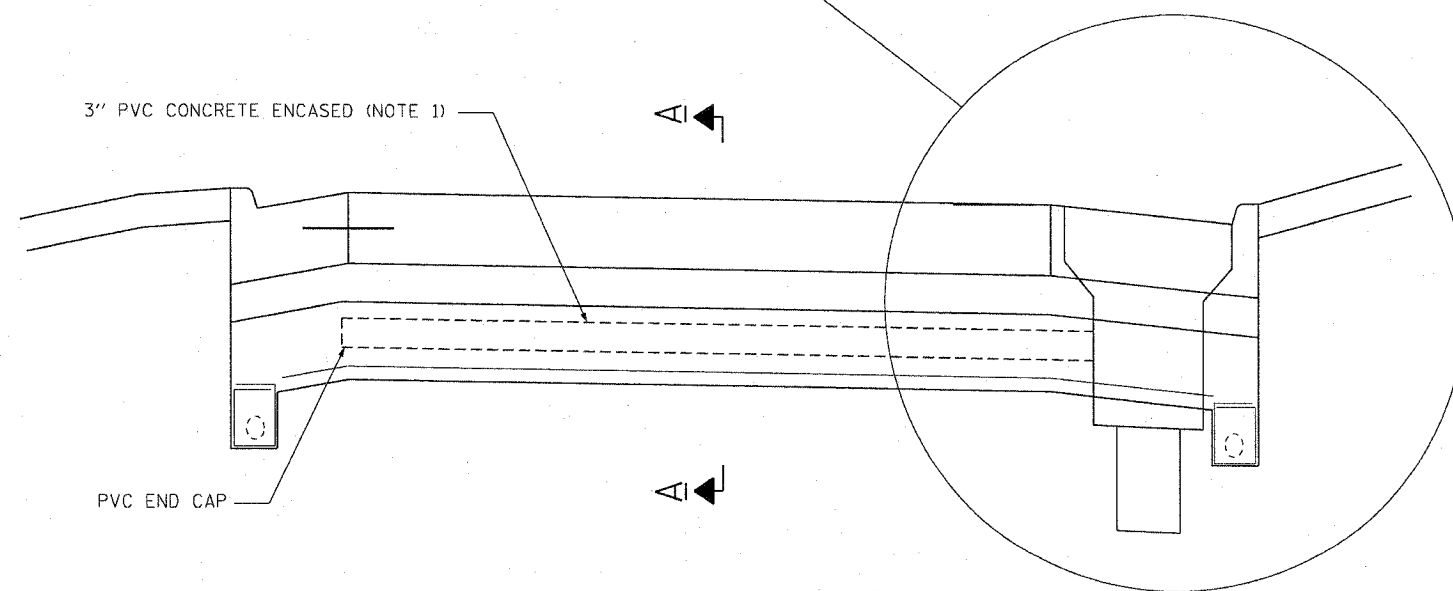
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	344
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		



HANDHOLE (SPECIAL) INSTALLATION IN RAMP SHOULDER



TYPICAL DETECTOR CONDUIT INSTALLATION IN RAMP PAVEMENT: SECTION A-A



TYPICAL RAMP DETECTOR INSTALLATION

NOTES

- 3" PVC CONCRETE ENCASED CONDUIT IS REQUIRED ONLY WHERE SHOWN ON THE PLAN DRAWINGS. WHEN INSTALLED, THE CONDUIT MUST MAINTAIN THE SAME ANGLE AS THE PAVEMENT THROUGHOUT ITS ENTIRE LENGTH. CONTRACTOR MUST VERIFY THE DETECTOR CONDUIT STRAIGHTNESS ACCORDING TO THE CONTRACT SPECIFICATIONS BEFORE THE CONCRETE ENCASEMENT IS INSTALLED.
- FOR HANDHOLE DETAIL SEE SHEET EI-104.
- WHEN INSTALLING CONDUIT NEAR OR THROUGH UNDERDRAIN GEOTECHNICAL FABRIC, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND UNIFORMITY OF THE UNDERDRAIN THROUGH OVERLAP TO THE SATISFACTION OF THE ENGINEER.

CTE | AECOM

REVISIONS	
NAME	DATE

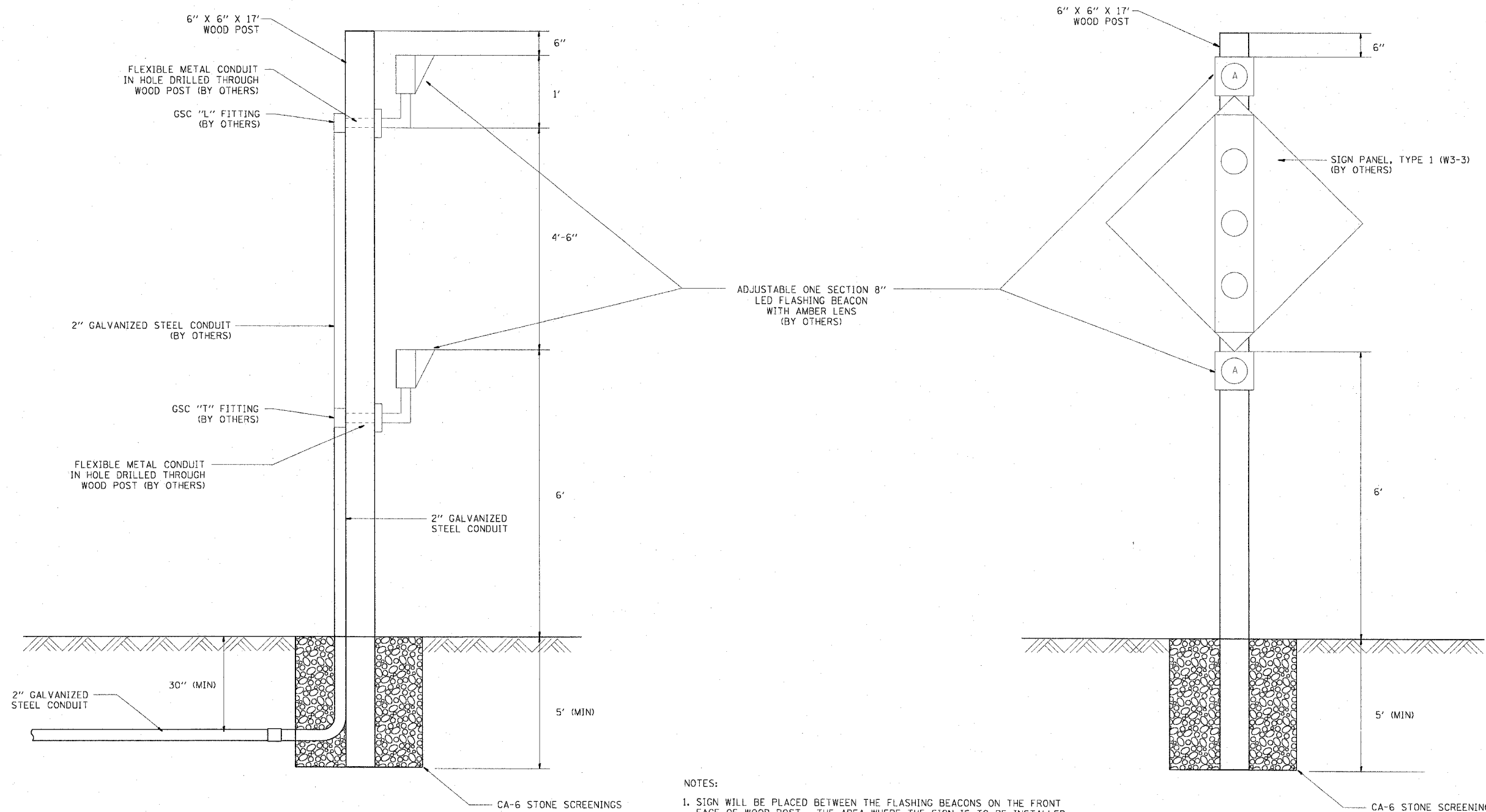
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 TYPICAL RAMP DETECTOR
 INSTALLATION DETAIL

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

EI-111

06/07/2006 09:59:03 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	345
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			



NOTES:

1. SIGN WILL BE PLACED BETWEEN THE FLASHING BEACONS ON THE FRONT FACE OF WOOD POST. THE AREA WHERE THE SIGN IS TO BE INSTALLED (4'-6" DIMENSION) MUST BE KEPT FREE OF CONDUIT AND CONNECTIONS TO PREVENT INTERFERENCE WITH SIGN PLACEMENT.
2. FOR WOOD POST INSTALLATION DETAILS, SEE SECTION 730 OF THE STANDARD SPECIFICATIONS.
3. ALL ITEMS MARKED BY OTHERS WILL BE INSTALLED IN CONTRACT NUMBER 62583.

REVISIONS	
NAME	DATE

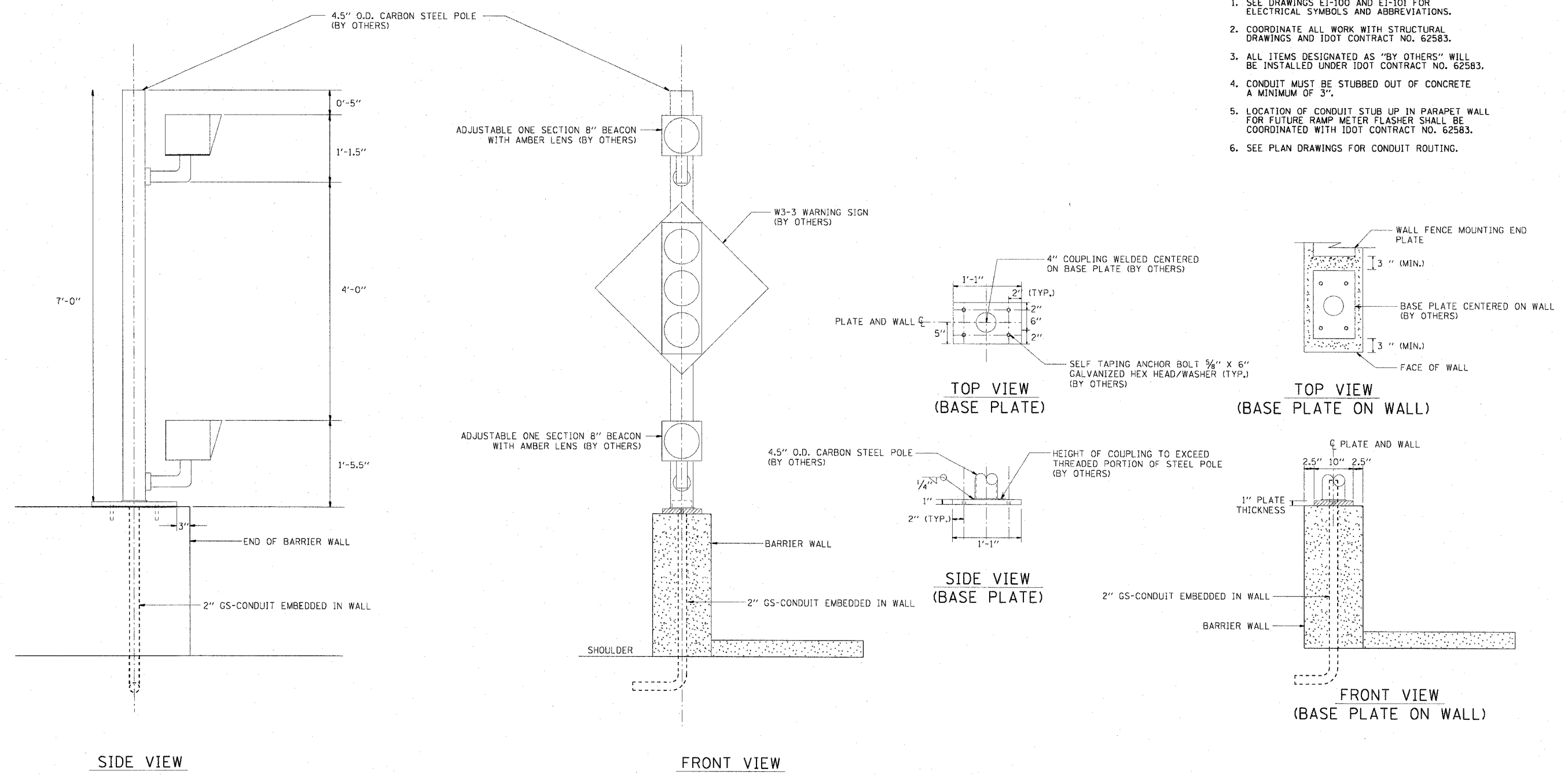
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 RAMP METER FLASHER ON
 WOOD SIGN SUPPORT DETAIL

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	346
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

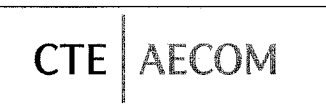
NOTES:

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- COORDINATE ALL WORK WITH STRUCTURAL DRAWINGS AND IDOT CONTRACT NO. 62583.
- ALL ITEMS DESIGNATED AS "BY OTHERS" WILL BE INSTALLED UNDER IDOT CONTRACT NO. 62583.
- CONDUIT MUST BE STUBBED OUT OF CONCRETE A MINIMUM OF 3".
- LOCATION OF CONDUIT STUB UP IN PARAPET WALL FOR FUTURE RAMP METER FLASHER SHALL BE COORDINATED WITH IDOT CONTRACT NO. 62583.
- SEE PLAN DRAWINGS FOR CONDUIT ROUTING.

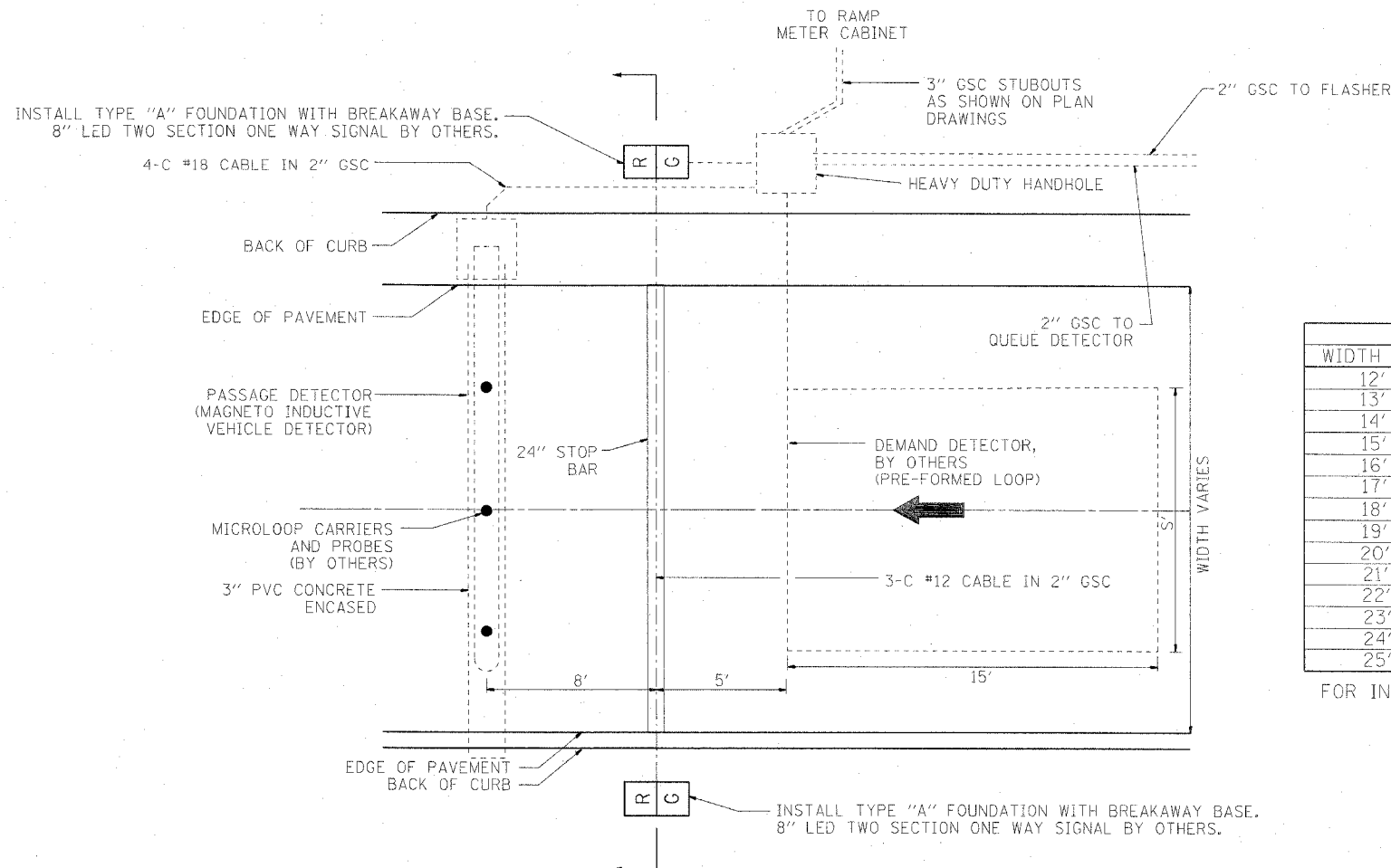


FLASHER POST ON BARRIER WALL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) RAMP METER FLASHER ON BARRIER WALL DETAIL
NAME	DATE	
SCALE: NOT TO SCALE		DRAWN BY: HAR
DATE: June 9, 2006		CHECKED BY: JPC



P:\p\465\elect\B-c\18 & 19\contract\B-c\18\912\2006\



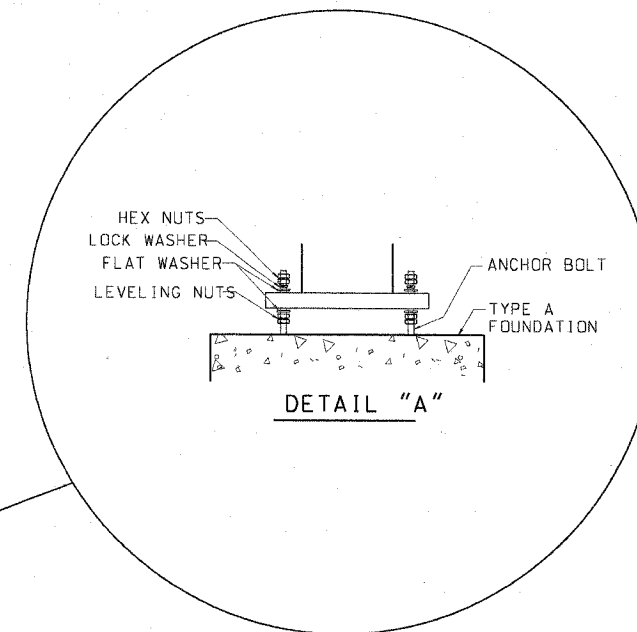
WIDTH (W)	WIDTH (S)
12'	8'
13'	9'
14'	10'
15'	11'
16'	12'
17'	13'
18'	14'
19'	15'
20'	16'
21'	17'
22'	18'
23'	19'
24'	20'
25'	21'

FOR INFORMATION ONLY

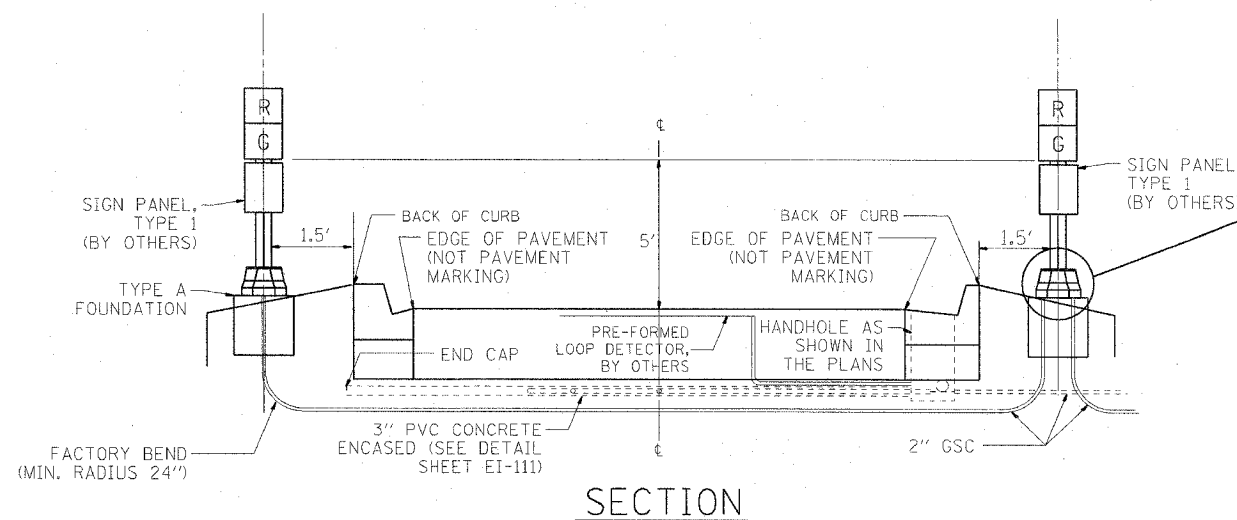
NOTES:

1. CONDUIT AND HANDHOLES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. ALL CABLES, PROBES, SIGNALS, SIGNS, AND OTHER EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OTHERS UNDER CONTRACT NUMBER 62583.
2. CONDUIT MUST BE STUBBED OUT OF CONCRETE A MINIMUM OF 3".
3. CENTERLINE OF STOP BAR AND TRAFFIC SIGNALS SHALL BE LOCATED AT THE STATION SHOWN ON THE PLANS.
4. CONTRACTOR MUST COORDINATE PLACEMENT AND SIZE OF ANCHOR BOLTS WITH IDOT CONTRACT NUMBER 62583.

TYPICAL SIGNAL AND LOOP LAYOUT



TYPICAL BREAKAWAY POLE BASE



SECTION

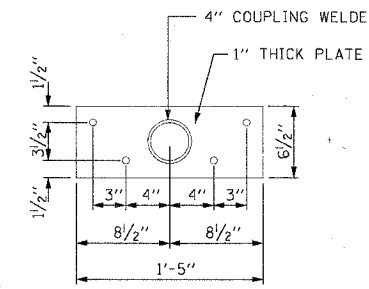
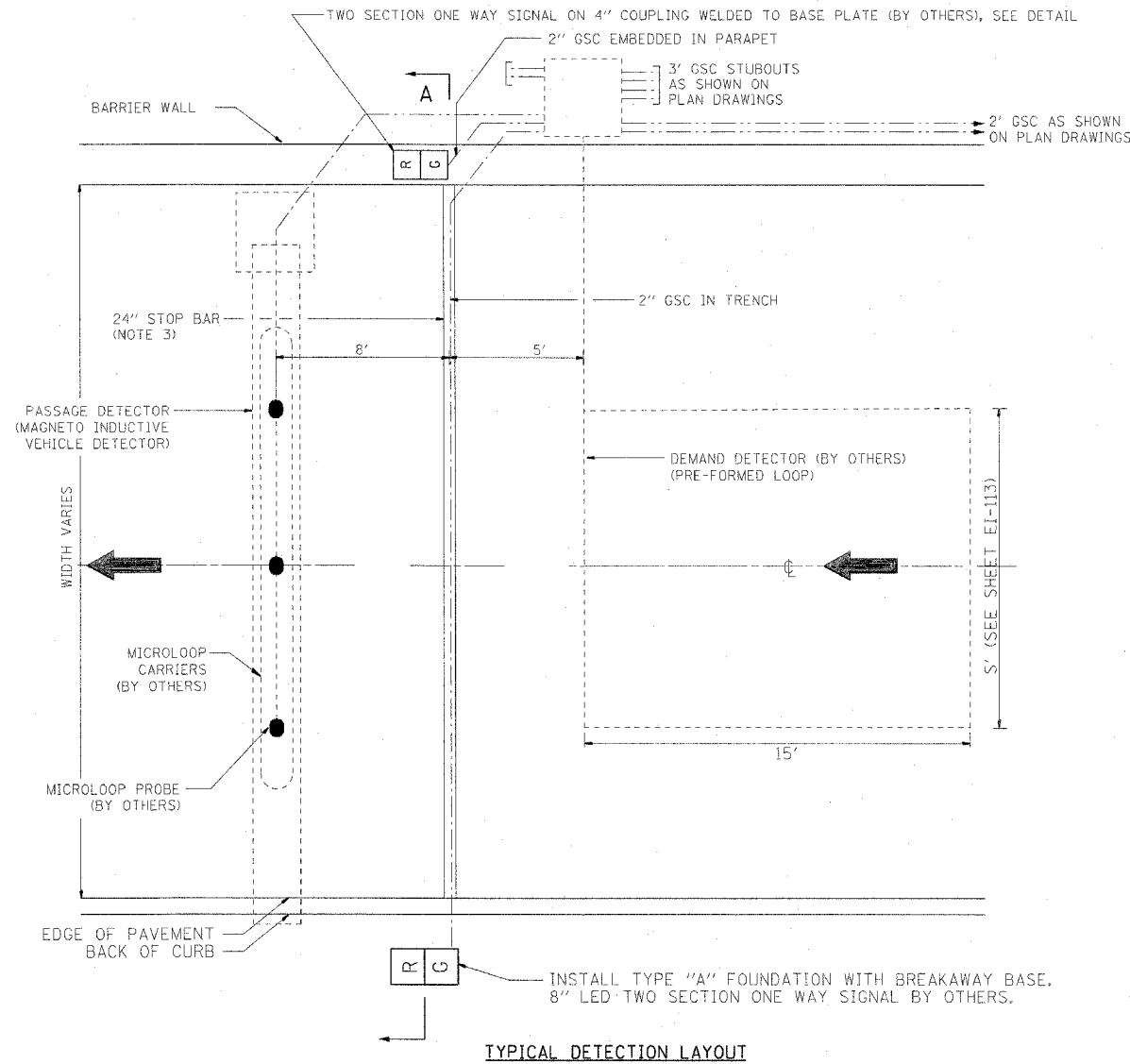
EI-113

REVISIONS	
NAME	DATE

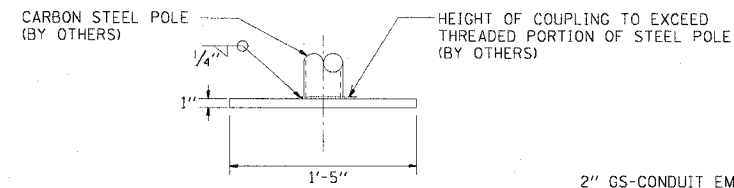
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 TYPICAL RAMP METERING INSTALLATION
 FOR RAMP WITH CURBS AND GUTTERS

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

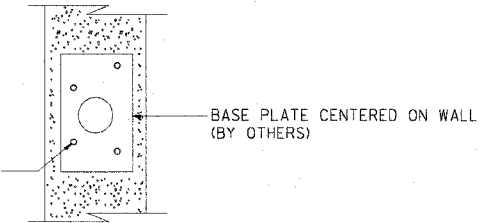
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	348
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		



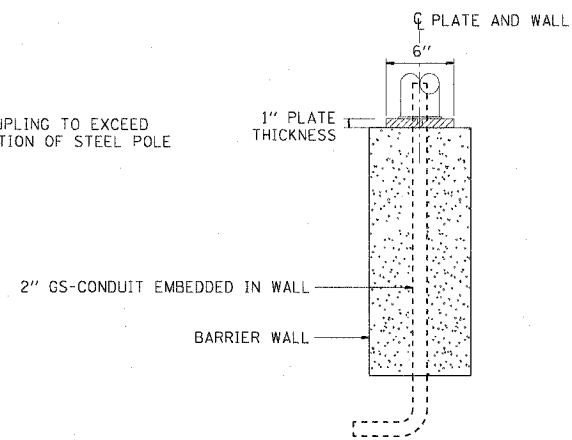
TOP VIEW (BASE PLATE)



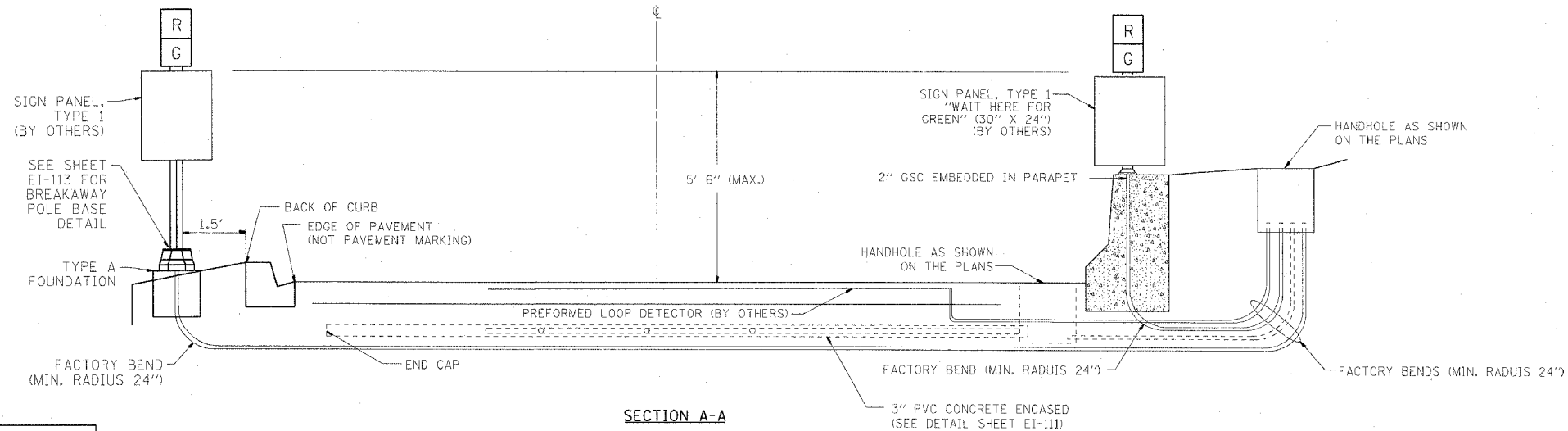
SIDE VIEW (BASE PLATE)



TOP VIEW (BASE PLATE ON WALL)



FRONT VIEW (BASE PLATE ON WALL)



NOTES:

- CONDUIT AND HANDHOLES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. ALL CABLES, PROBES, SIGNALS, SIGNS, AND OTHER EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OTHERS UNDER CONTRACT NUMBER 62583.
- CONDUIT MUST BE STUBBED OUT OF CONCRETE A MINIMUM OF 3".
- CENTERLINE OF STOP BAR AND TRAFFIC SIGNALS SHALL BE LOCATED AT THE STATION SHOWN ON THE PLANS.
- CONTRACTOR MUST COORDINATE PLACEMENT AND SIZE OF ANCHOR BOLTS WITH IDOT CONTRACT NUMBER 62583.

REVISIONS	
NAME	DATE

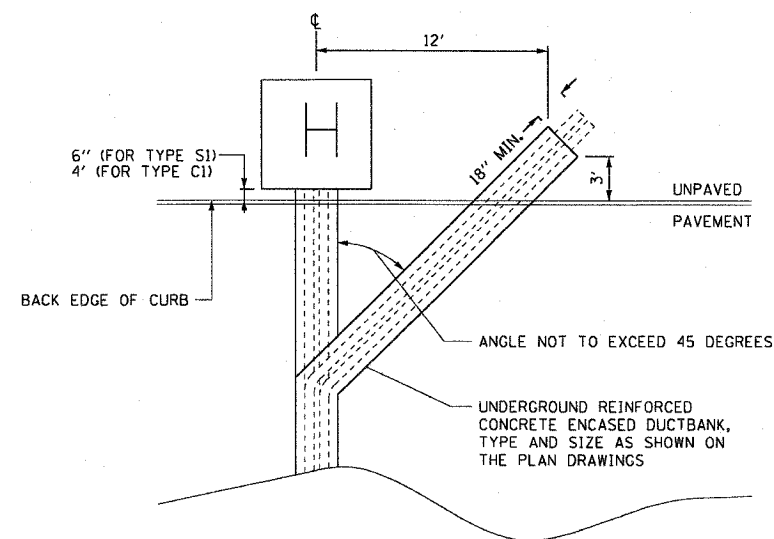
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 TYPICAL RAMP METERING INSTALLATION
 FOR RAMP WITH BARRIER WALL (RIGHT SIDE)
 AND CURB AND GUTTER (LEFT SIDE)

SCALE: NOT TO SCALE
 DATE: June 9, 2006
 DRAWN BY: HAR
 CHECKED BY: JPC

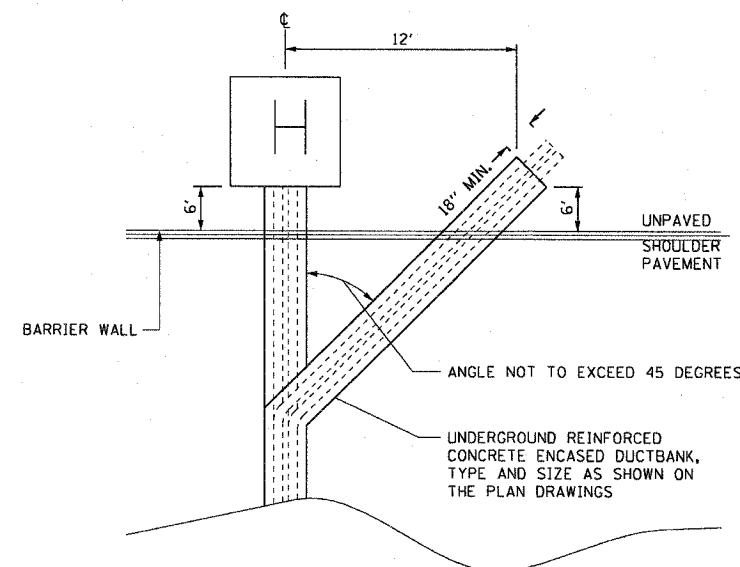
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	349
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

NOTES:

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. DIMENSIONS SHOWN ON THIS DRAWING ARE TYPICAL FOR MOST INSTALLATIONS. DIMENSIONS AND/OR STATION NUMBERS SPECIFIED ON THE PLAN DRAWINGS OR HANDHOLE DETAIL DRAWINGS WILL SUPERCEDE THE DIMENSIONS SHOWN ON THIS DRAWING.
3. SEE DRAWING EI-106 FOR CONDUIT DUCTBANK DETAILS.



DUCTBANK INSTALLATION DETAIL ACROSS PAVEMENT
NOT TO SCALE



DUCTBANK INSTALLATION DETAIL ACROSS PAVEMENT WITH SHOULDER BARRIER WALL
NOT TO SCALE

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**ELECTRICAL DUCTBANK DETAILS
ACROSS PAVEMENT**

SCALE: NOT TO SCALE
DATE: June 9, 2006
DRAWN BY: HAR
CHECKED BY: JPC

EI-115

06/07/2006 09:59:04 AM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	350
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		FOUNDATION INSTALLED BY CONTRACT	LIGHT TOWER INSTALLED BY CONTRACT	LIGHT TOWER SERVICE PAD INSTALLED BY CONTRACT	LIGHT TOWER SERVICE PAD AND WALL 3'-6" INSTALLED BY CONTRACT	LIGHT TOWER SERVICE PAD AND WALL 5'-0" INSTALLED BY CONTRACT	REMARKS
	STATION	OFFSET						
7 UCD1	3530+20	LT 76	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
8 UCD2	3534+26	LT 74	THIS CONTRACT	62583	-	-	-	MOUNTED ON WALL S-47N-R
7 VIJ3	3538+28	LT 89	THIS CONTRACT	62583	-	-	-	MOUNTED ON WALL S-47N-F
7 VIJ2	3542+35	LT 93	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
7 VIJ1	3546+45	LT 88	62583	62583	THIS CONTRACT	-	-	GROUND MOUNTED
7 VAB4	3550+55	LT 107	62583	62583	-	-	THIS CONTRACT	GROUND MOUNTED
7 VAB3	3554+65	LT 88	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
7 VAB2	3558+75	LT 87	62583	62583	-	-	THIS CONTRACT	GROUND MOUNTED
7 VAB1	3562+80	LT 112	62583	62583	-	-	THIS CONTRACT	GROUND MOUNTED
7 VCD1	3566+85	LT 98	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
7 VCD2	3570+90	LT 88	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
7 VCD3	3575+20	LT 101	62583	62583	-	THIS CONTRACT	-	GROUND MOUNTED
7 VCD4	3579+50	LT 76	62583	62583	-	-	THIS CONTRACT	GROUND MOUNTED
7 WAB6	3583+82.4	LT 76	62585	62733	-	-	62585	GROUND MOUNTED
7 WAB5	3587+77.3	LT 85	62585	62733	-	62585	-	GROUND MOUNTED
7 WAB4	3591+82.3	LT 92	62585	62733	-	-	62585	GROUND MOUNTED
7 WAB3	3595+82.3	LT 76	62585	62733	62585	-	-	GROUND MOUNTED
7 WAB2	3599+82.3	LT 76	62585	62733	62585	-	-	GROUND MOUNTED
7 WAB1	3603+82.3	LT 119	62585	62733	-	-	-	MOUNTED ON WALL S-35S-F
7 WCD1	3607+60	LT 88	62585	62733	-	THIS CONTRACT	-	GROUND MOUNTED
7 WCD2	3611+82.3	LT 88	62585	62733	-	62585	-	GROUND MOUNTED
7 WCD3	3616+38.35	LT 114	62585	62733	-	-	-	MOUNTED ON WALL S-33S-F
7 WCD4	3620+82.3	LT 88	62585	62733	-	-	THIS CONTRACT	GROUND MOUNTED
7 WCD5	3625+22.3	LT 88	62585	62733	-	THIS CONTRACT	-	GROUND MOUNTED
7 WCD6	3629+62.3	LT 103	62585	62733	-	62585	-	GROUND MOUNTED
7 WCD7	3633+84.65	LT 98	62585	62733	-	-	-	MOUNTED ON WALL S-31S-R

EI-116

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

HIGH MAST TOWER
SCHEDULE

SCALE: NTS
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

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

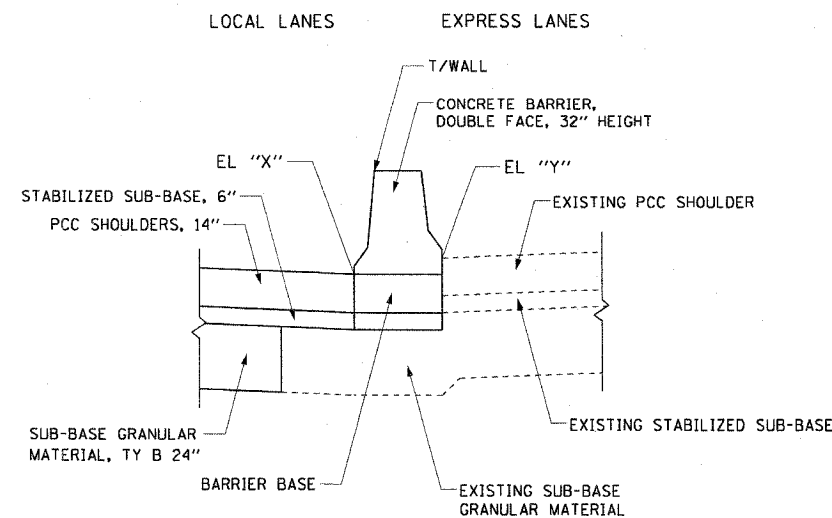


6/9/2006 11:06:58 AM

DOUBLE FACE BARRIER WALL ELEVATIONS

LOCAL LANE STATION	ELEVATION		
	"X"	"Y"	T/WALL
3476+00.00	-0.77	-0.24	2.43
3476+25.00	-0.47	0.02	2.69
3476+50.00	-0.22	0.26	2.93
3476+75.00	0.07	0.53	3.20
3477+00.00	0.36	0.80	3.47
3477+25.00	0.65	1.06	3.73
3477+50.00	0.93	1.33	4.00
3477+75.00	1.21	1.60	4.27
3478+00.00	1.50	1.87	4.54
3478+25.00	1.79	2.14	4.81
3478+50.00	2.07	2.40	5.07
3478+75.00	2.36	2.67	5.34
3479+00.00	2.65	2.94	5.61
3479+25.00	2.94	3.21	5.88
3479+50.00	3.22	3.48	6.15
3479+75.00	3.51	3.75	6.42
3480+00.00	3.80	4.01	6.68
3480+25.00	4.09	4.28	6.95
3480+50.00	4.37	4.55	7.22
3480+75.00	4.66	4.82	7.49
3481+00.00	4.95	5.09	7.76
3481+25.00	5.24	5.35	8.02
3481+50.00	5.52	5.62	8.29
3481+75.00	5.81	5.89	8.56
3482+00.00	6.10	6.16	8.83
3482+25.00	6.39	6.43	9.10
3482+50.00	6.67	6.69	9.36
3482+75.00	6.96	6.96	9.63
3483+00.00	7.25	7.23	9.91
3483+25.00	7.54	7.50	10.20
3483+50.00	7.81	7.77	10.48
3483+75.00	8.10	8.04	10.77
3484+00.00	8.37	8.30	11.04
3484+25.00	8.62	8.57	11.29
3484+50.00	8.85	8.85	11.52
3484+75.00	9.07	9.10	11.77
3485+00.00	9.27	9.34	12.01
3485+25.00	9.45	9.57	12.24
3485+50.00	9.62	9.78	12.45
3485+75.00	9.79	9.98	12.64
3486+00.00	9.93	10.16	12.83
3486+25.00	10.01	10.28	12.95
3486+50.00	10.11	10.41	13.08
3486+75.00	10.19	10.52	13.19
3487+00.00	10.26	10.62	13.29
3487+25.00	10.30	10.69	13.36
3487+50.00	10.33	10.75	13.42
3487+75.00	10.34	10.79	13.46
3488+00.00	10.34	10.81	13.48
3488+25.00	10.32	10.81	13.48
3488+50.00	10.28	10.79	13.46
3488+75.00	10.22	10.75	13.42
3489+00.00	10.14	10.70	13.37
3489+25.00	10.05	10.62	13.29
3489+50.00	9.94	10.53	13.20
3489+75.00	9.81	10.42	13.09
3490+00.00	9.67	10.29	12.96
3490+25.00	9.51	10.14	12.81
3490+50.00	9.34	9.97	12.64
3490+75.00	9.14	9.79	12.46
3491+00.00	8.93	9.58	12.25
3491+25.00	8.70	9.36	12.03
3491+50.00	8.46	9.12	11.79
3491+75.00	8.20	8.87	11.54
3492+00.00	7.94	8.61	11.28
3492+25.00	7.68	8.36	11.03
3492+50.00	7.42	8.10	10.77
3492+75.00	7.16	7.85	10.52
3493+00.00	6.90	7.60	10.27
3493+25.00	6.64	7.38	10.05

LOCAL LANE STATION	ELEVATION		
	"X"	"Y"	T/WALL
3493+50.00	6.38	7.11	9.78
3493+75.00	6.12	6.83	9.50
3494+00.00	5.86	6.58	9.25
3494+25.00	5.60	6.32	8.99
3494+50.00	5.33	6.07	8.74
3494+75.00	5.07	5.82	8.49
3495+00.00	4.81	5.56	8.23
3495+25.00	4.55	5.31	7.98
3495+50.00	4.29	5.05	7.72
3495+75.00	4.03	4.80	7.47
3496+00.00	3.77	4.55	7.22
3496+25.00	3.51	4.29	6.96
3496+50.00	3.25	4.04	6.71
3496+75.00	2.99	3.78	6.45
3497+00.00	2.73	3.53	6.20
3497+25.00	2.47	3.28	5.95
3497+50.00	2.21	3.02	5.69
3497+75.00	1.95	2.77	5.44
3498+00.00	1.69	2.51	5.18
3498+25.00	1.43	2.26	4.93
3498+50.00	1.16	2.00	4.67
3498+75.00	0.89	1.75	4.42
3499+00.00	0.63	1.49	4.16
3499+25.00	0.36	1.24	3.91
3499+50.00	0.10	0.98	3.65
3499+75.00	-0.17	0.73	3.40
3500+00.00	-0.44	0.47	3.14
3500+25.00	-0.70	0.21	2.88
3500+50.00	-0.97	-0.04	2.63
3500+75.00	-1.24	-0.30	2.37
3501+00.00	-1.51	-0.55	2.12
3501+25.00	-1.76	-0.81	1.86
3501+50.00	-2.01	-1.09	1.58
3501+75.00	51st ST Bridge		
3502+00.00	51st ST Bridge		
3502+25.00	51st ST Bridge		
3502+50.00	-2.95	-1.98	0.69
3502+75.00	-3.11	-2.12	0.55
3503+00.00	-3.21	-2.22	0.45
3503+00.00	-3.27	-2.28	0.39
3503+50.00	-3.27	-2.30	0.37
3503+75.00	-3.25	-2.28	0.39
3504+00.00	-3.18	-2.22	0.45
3504+25.00	-3.07	-2.13	0.54
3504+50.00	-2.92	-1.99	0.68
3504+75.00	-2.70	-1.81	0.86
3505+00.00	-2.43	-1.59	1.08
3505+23.84	-2.13	-1.34	1.33
3523+72.02	-0.49	1.06	3.73
3524+00.00	-0.93	0.70	3.37
3524+25.00	-1.32	0.42	3.08
3524+50.00	-1.72	0.14	2.81
3524+75.00	-2.12	-0.13	2.54
3525+00.00	-2.52	-0.39	2.27
3525+25.00	-2.88	-0.66	2.01
3525+50.00	-3.20	-1.00	1.67
3525+75.00	-3.49	-1.31	1.36
3526+00.00	-3.74	-1.58	1.09
3526+25.00	-3.88	-1.80	0.87
3526+50.00	-3.98	-1.98	0.69
3526+75.00	-4.04	-2.12	0.55
3527+00.00	-4.07	-2.22	0.45
3527+25.00	-4.06	-2.28	0.39
3527+50.00	-4.01	-2.29	0.38
3527+75.00	-3.93	-2.26	0.40
3528+00.00	-3.81	-2.20	0.47
3528+25.00	-3.64	-2.10	0.56



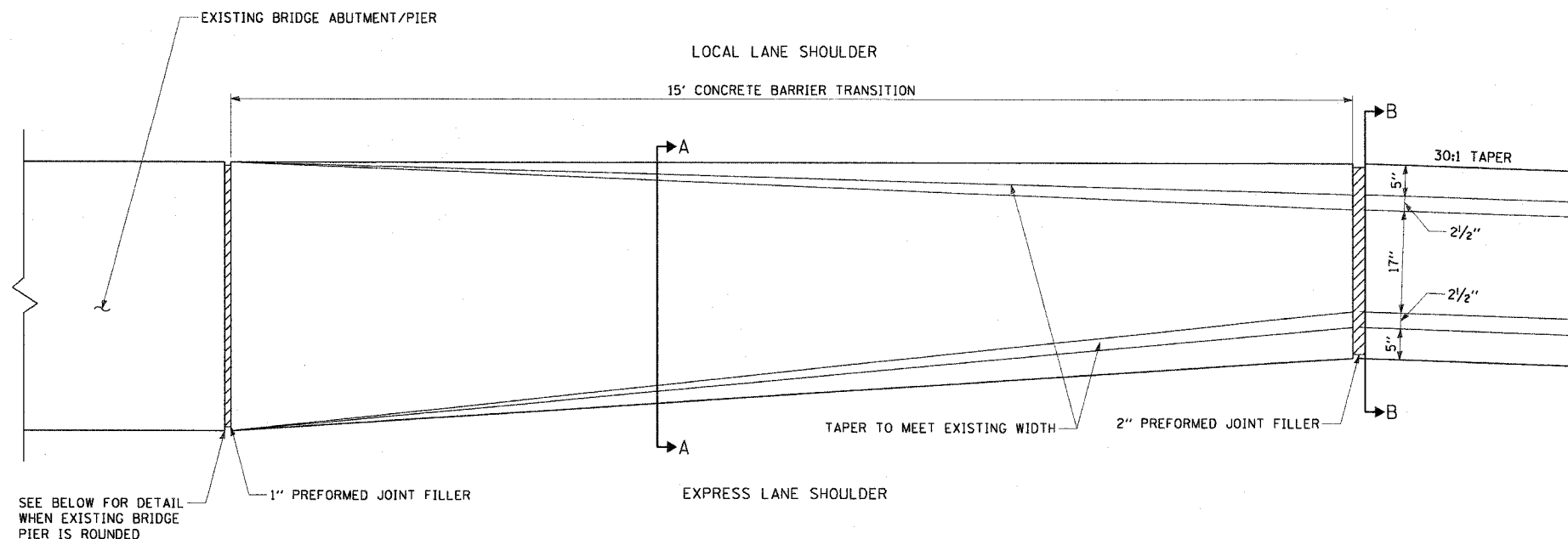
NOTES:

- SEE IDOT HIGHWAY STANDARD 637001 FOR DOUBLE FACE CONCRETE BARRIER DETAILS.
- THE EDGE OF THE BARRIER WALL ALONG THE EXPRESS LANES SHOULDER SHALL MATCH THE EXISTING SHOULDER.
- ELEVATIONS ARE TAKEN AT THE TOE OF THE DOUBLE FACE BARRIER WALL.
- SEE RDT-8 FOR THE CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE PROPOSED DOUBLE FACE BARRIER WALL.

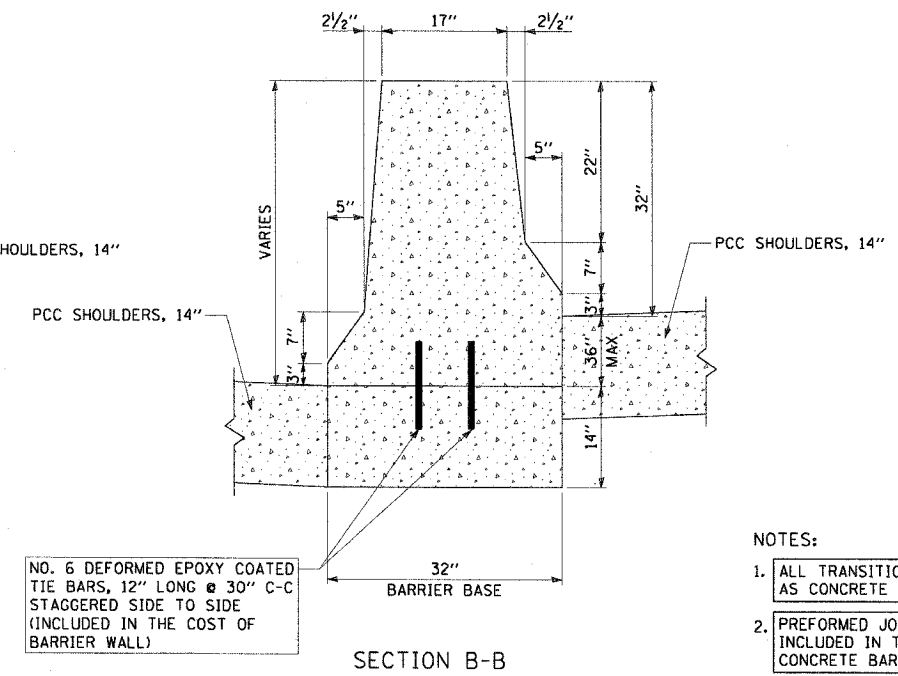
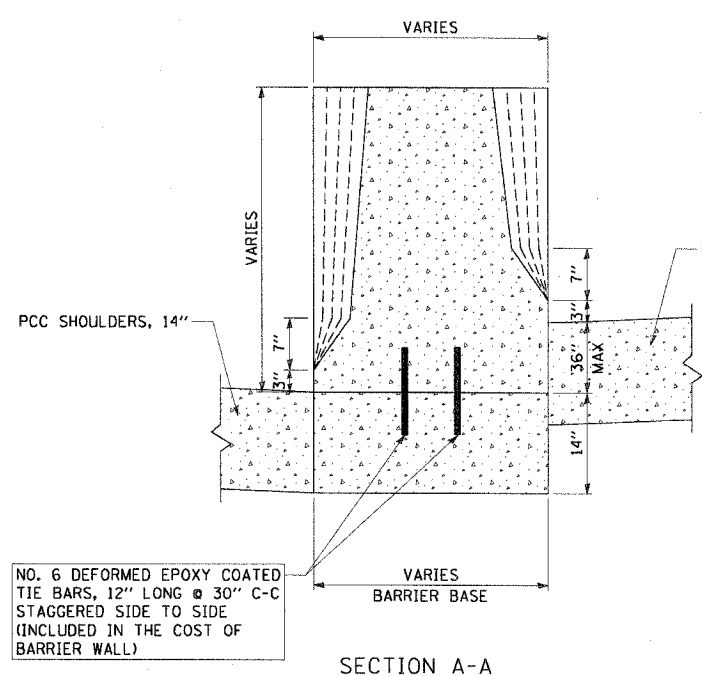
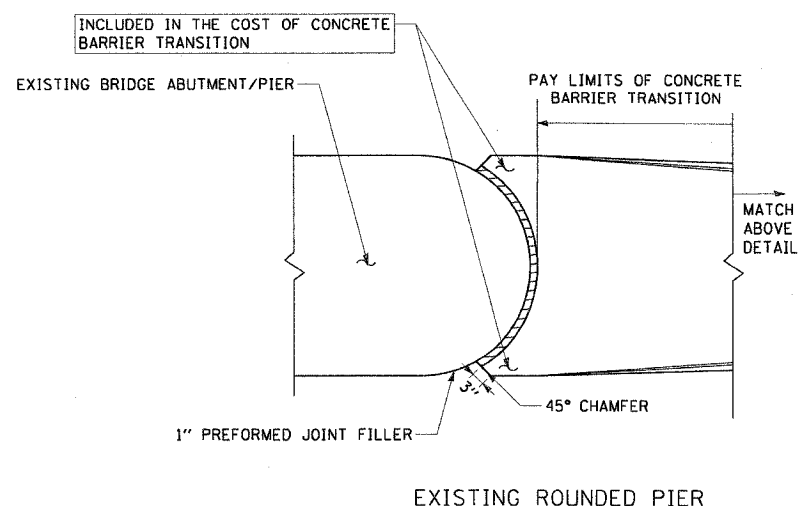
REVISIONS	
NAME	DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	352
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		

DOUBLE FACE CONCRETE BARRIER TRANSITION
N.T.S.



SEE BELOW FOR DETAIL WHEN EXISTING BRIDGE PIER IS ROUNDED



- NOTES:
- ALL TRANSITIONS SHALL BE PAID FOR AS CONCRETE BARRIER TRANSITION
 - PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.

CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
NAME	DATE	
		ROADWAY DETAILS DOUBLE FACE CONCRETE BARRIER TRANSITION

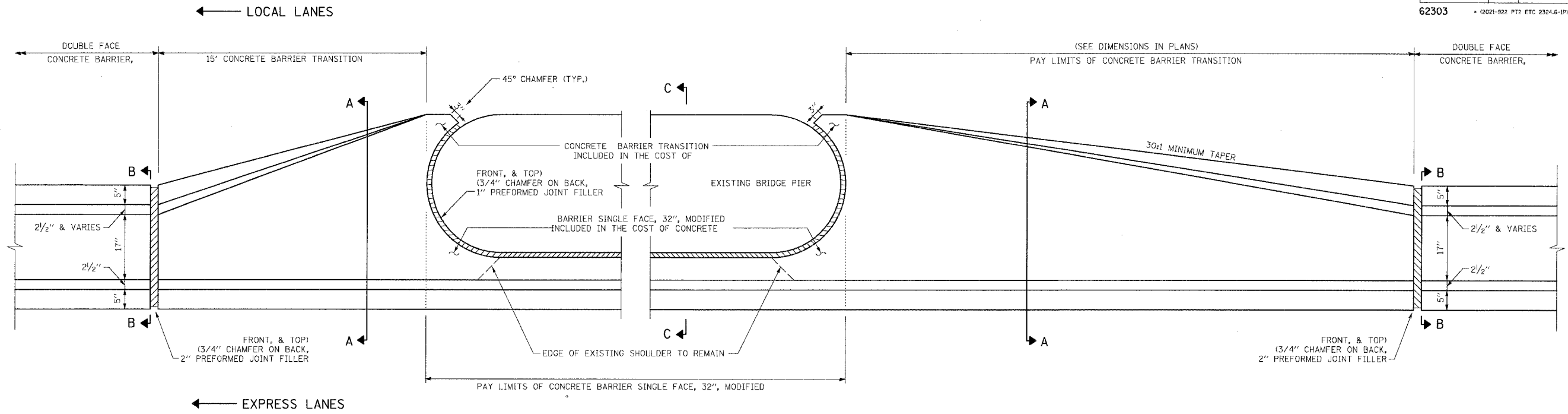
SCALE: NONE
DATE: June 9, 2006

DRAWN BY: NJH
CHECKED BY: RMG

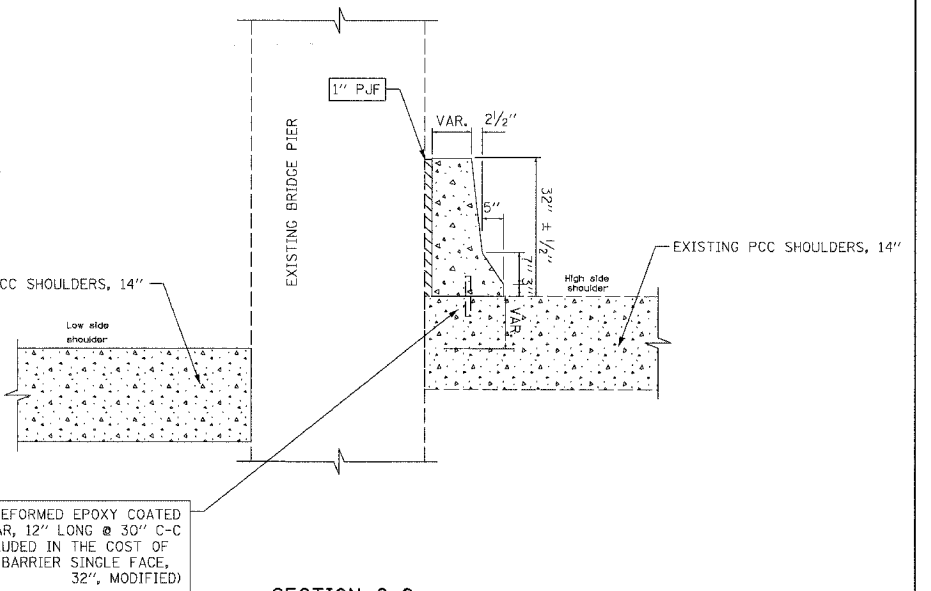
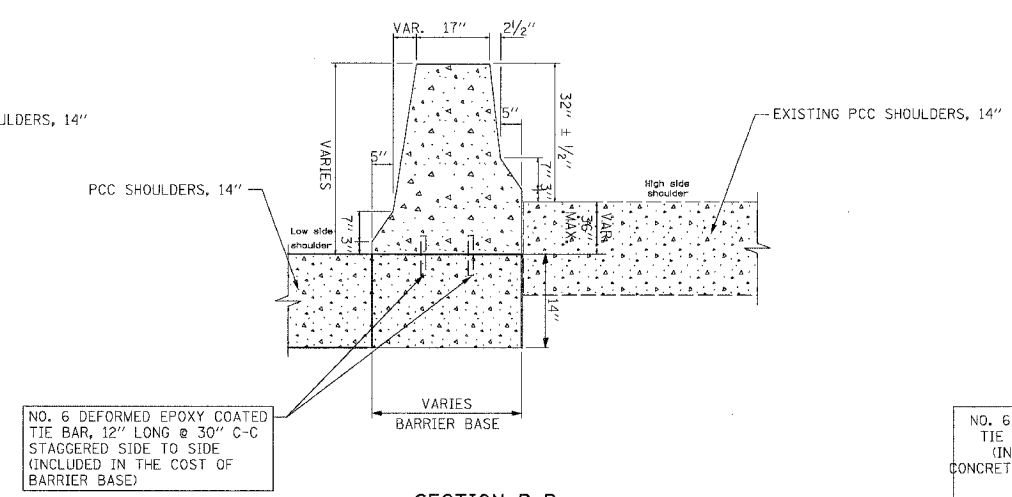
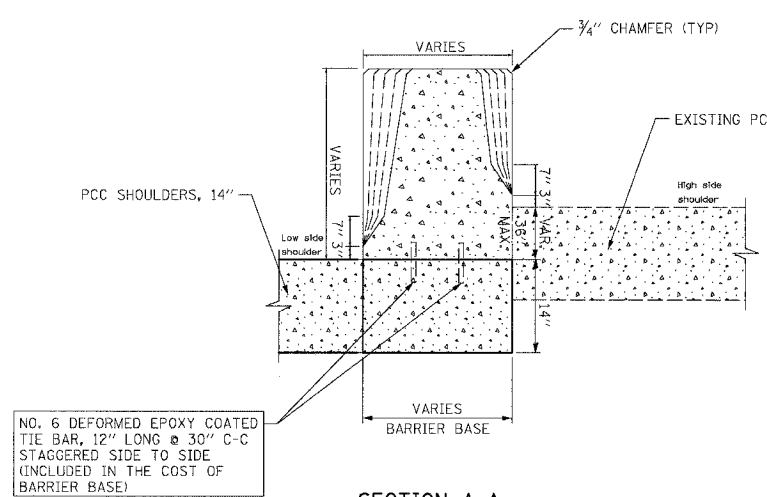
RDT-2A

1:28:54 PM 6/7/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	353
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	+ (2021-922 PT2 ETC 2324.6-IP) R-10			



DETAIL OF CONCRETE BARRIER TRANSITION AND CONCRETE BARRIER SINGLE FACE, 32", MODIFIED AT EXISTING MEDIAN BRIDGE PIERS



- NOTE:
- ALL TRANSITIONS PAID FOR AS CONCRETE BARRIER TRANSITION
 - THIS DETAIL APPLIES TO THE BRIDGE PIER TREATMENTS AT THE FOLLOWING BRIDGES: 43RD STREET, ROOT STREET, PERSHING ROAD, 35TH STREET, AND 33RD STREET. SEE DETAIL RDT-2 FOR ALL OTHER BRIDGE PIER TREATMENTS.

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REVISIONS	
NAME	DATE

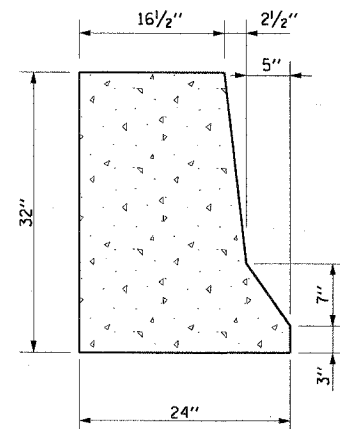
RDT-2B

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

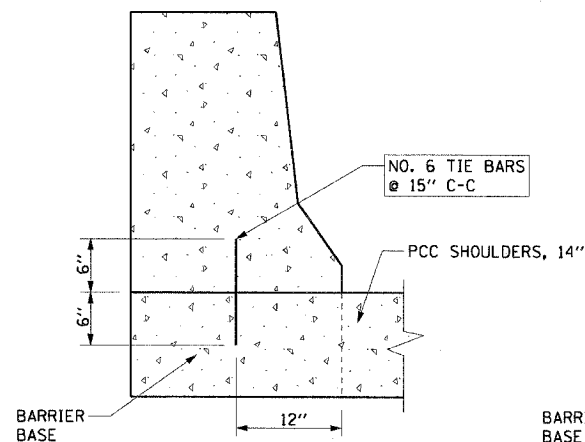
**ROADWAY DETAILS
BRIDGE PIER TREATMENT**

SCALE: NTS
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

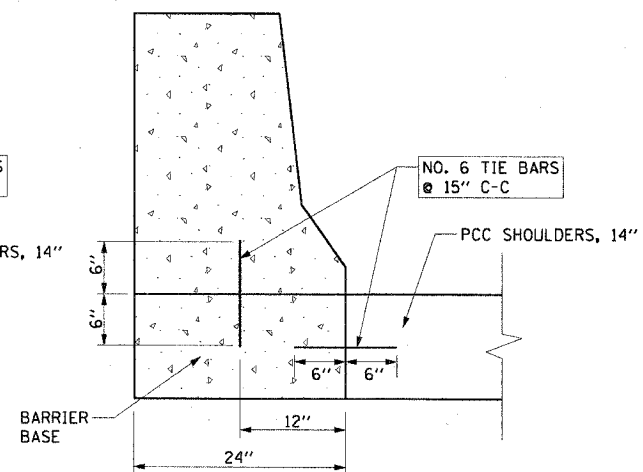
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	354
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		



CONCRETE BARRIER
TYPICAL SECTION



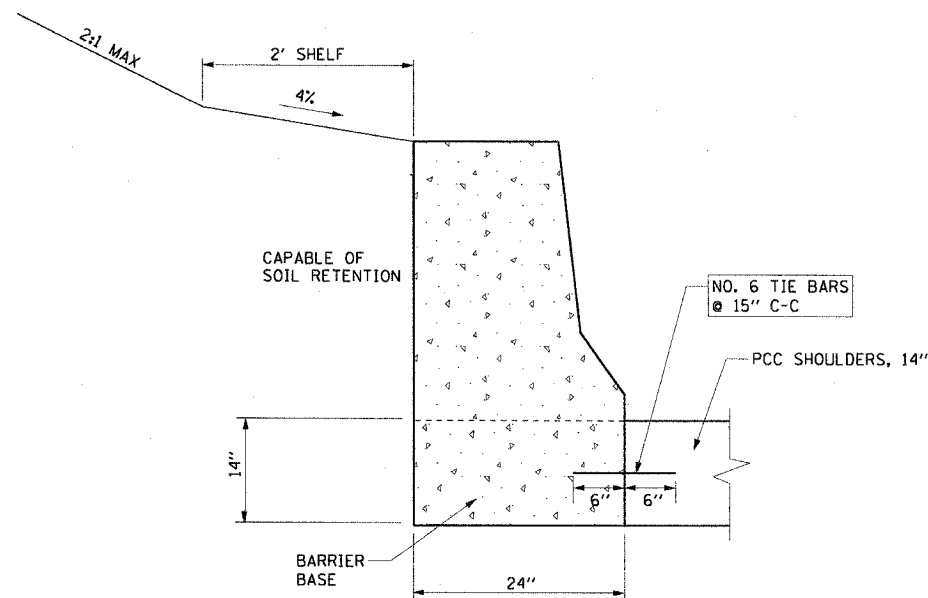
ANCHORING METHOD



CONCRETE BARRIER ON
INDEPENDANT FOUNDATION

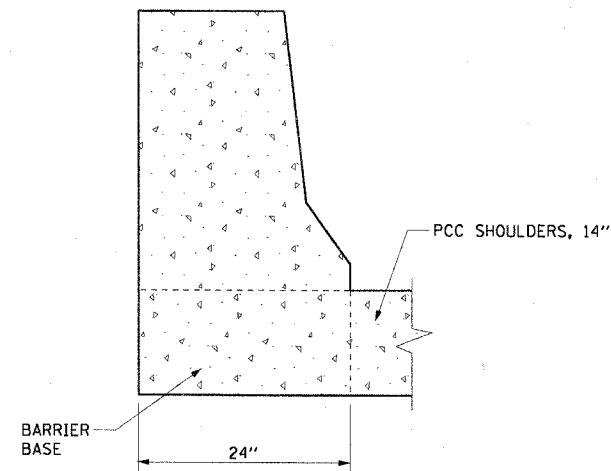
NOTE:

- TIE BARS SHALL BE EPOXY COATED AND INCLUDED IN THE COST OF CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT AND BARRIER BASE.
- THE CONTRACTOR HAS THE OPTION OF CHOOSING BETWEEN ANCHORING METHODS SHOWN ON THIS SHEET.



MONOLITHIC CONCRETE BARRIER

IF SOIL RETENTION IS USED, 14" PCC SHOULDER PAVEMENT MUST BE IN PLACE PRIOR TO BACKFILLING BARRIER WALL



CONCRETE BARRIER INTEGRAL
WITH PCC SHOULDERS, 14"

CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ROADWAY DETAILS
CONCRETE BARRIER, SINGLE FACE 32" HEIGHT

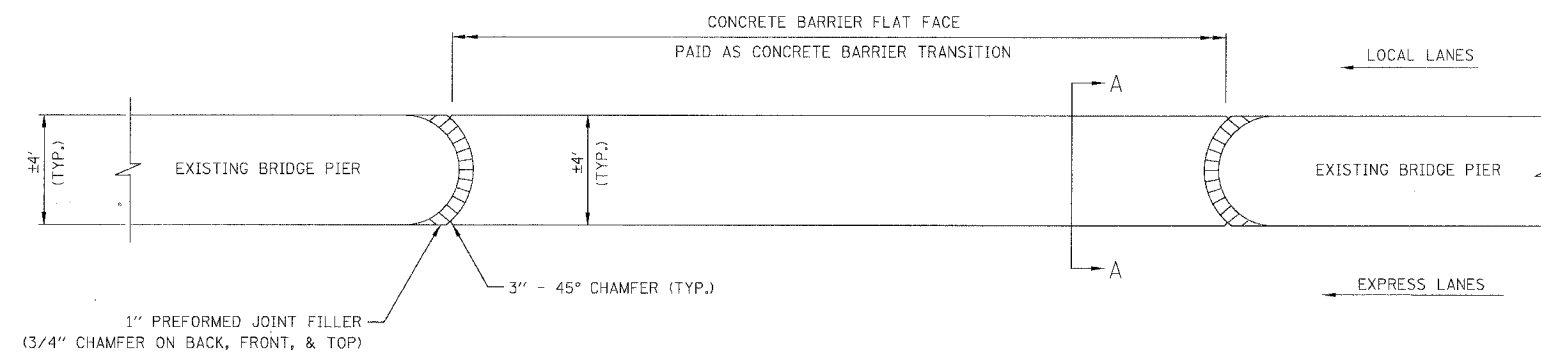
SCALE: NONE
DATE: June 9, 2006

DRAWN BY: RLK
CHECKED BY: EL

RDT-3

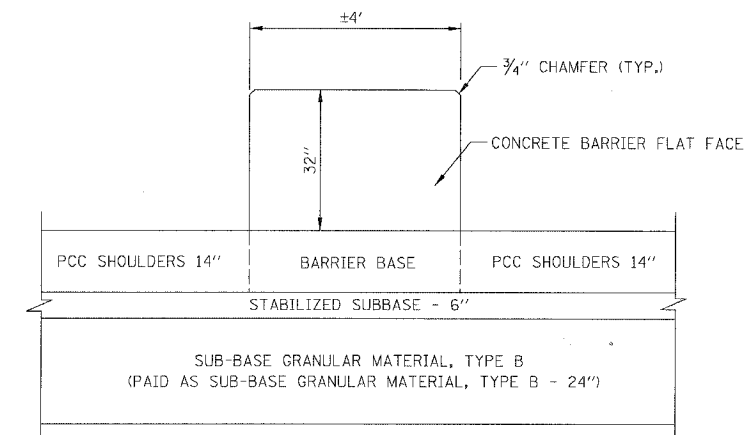
12855 PW 6/7/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	355
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 P12 ETC 2324.6-1P) R-11			



CONCRETE BARRIER FLAT FACE

STA. 3575+70.7 TO STA. 3575+89.6 RT



SECTION A:A

RDT-4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (NB LOCAL LANES)
 ROADWAY DETAILS
CONCRETE BARRIER FLAT FACE
 SCALE: NONE DRAWN BY: JDC
 DATE: 06/09/06 CHECKED BY: RS

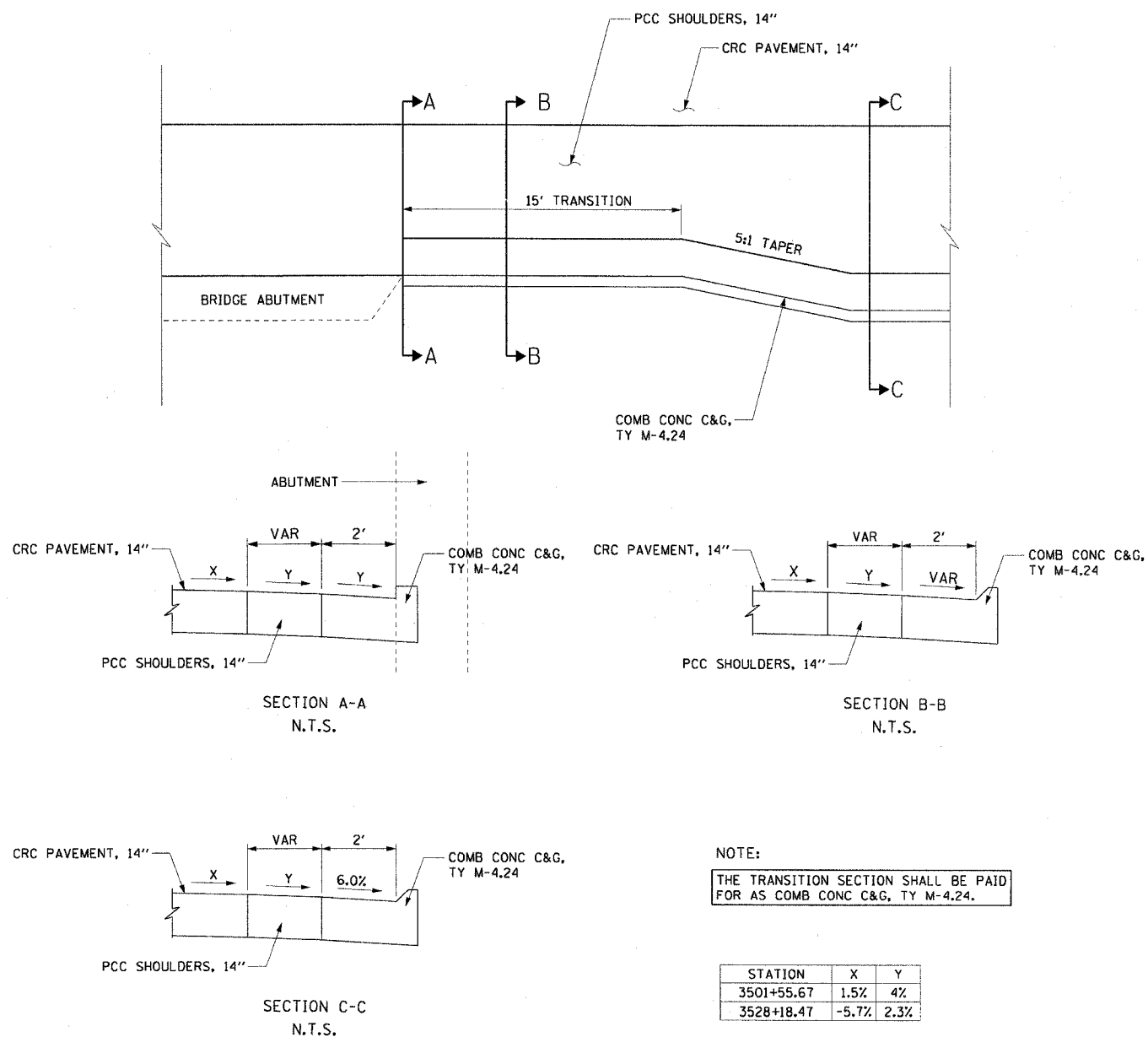
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6/8/2006 11:51:05 AM

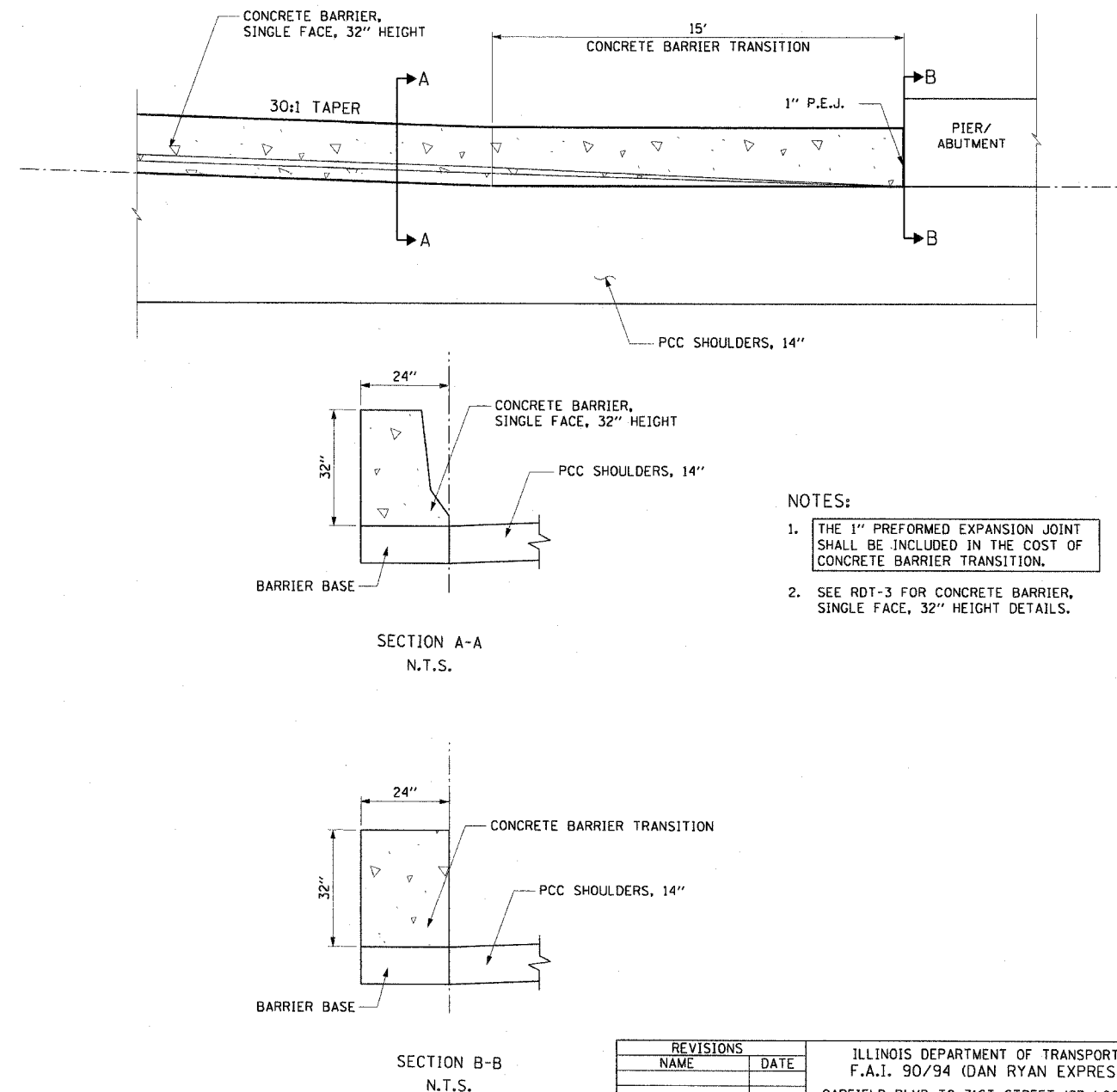
COMB CONC C&G, TY M-4.24 TRANSITION TO BRIDGE ABUTMENT
N.T.S.

STA 3501+55.67
STA 3528+18.47



SINGLE FACE CONCRETE BARRIER TRANSITION TO PIER/ABUTMENT
N.T.S.

STA 3475+82.51



- NOTES:
- THE 1" PREFORMED EXPANSION JOINT SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION.
 - SEE RDT-3 FOR CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT DETAILS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ROADWAY DETAILS
COMB CONC C&G TRANSITION TO ABUTMENT
SINGLE FACE CONCRETE BARRIER TRANSITION

SCALE: NONE
DATE: June 9, 2006

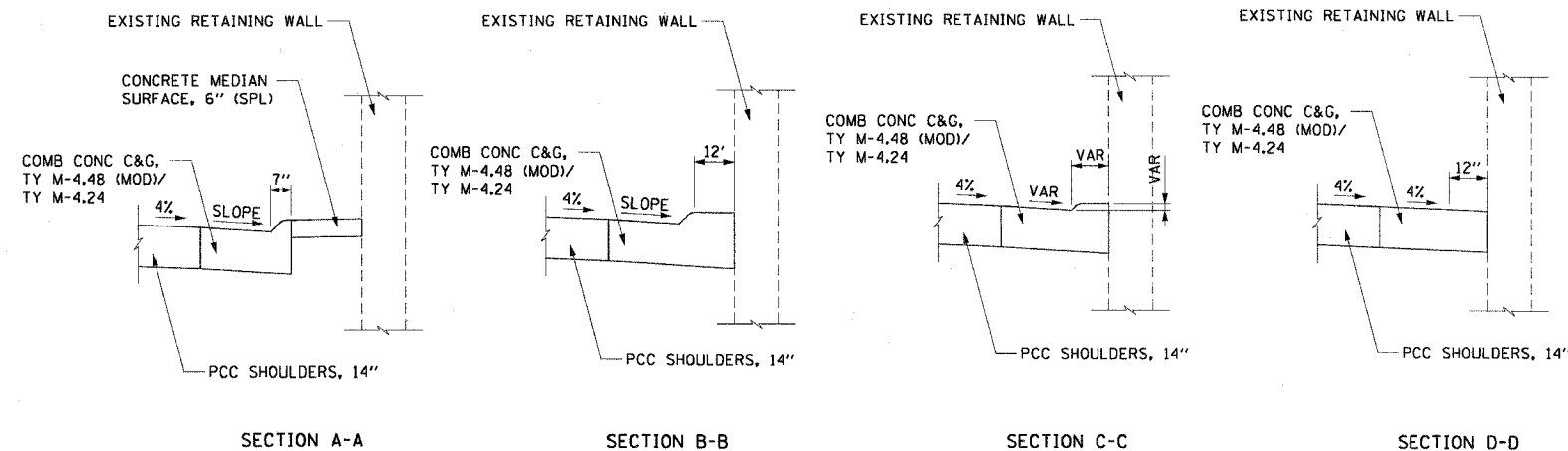
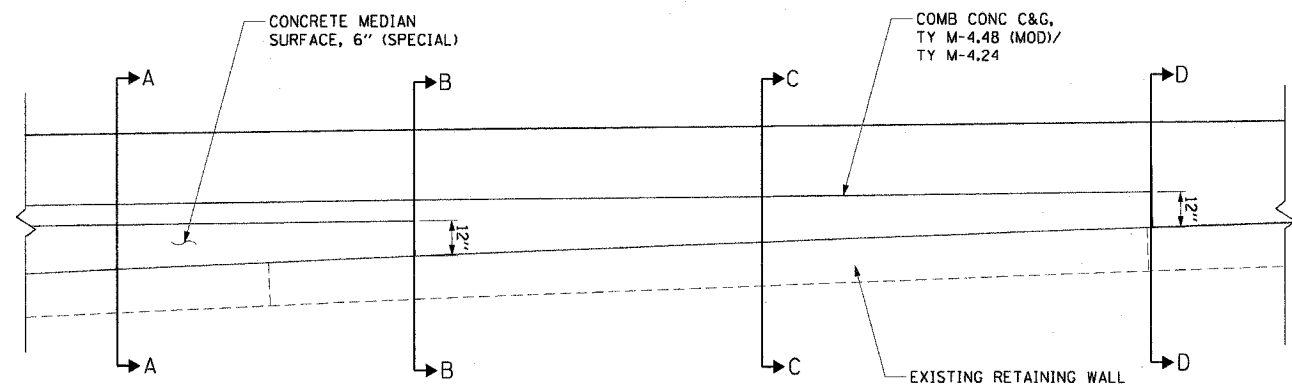
DRAWN BY: NJH
CHECKED BY: RMG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	357
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P) R-11			

VARIABLE CURB WIDTH AND GUTTER TRANSITIONS FOR COMB CONC C&G, TY M-4.24 & TY M-4.48 (MOD)

N.T.S.

STA 5085+17.96
 STA 3504+89.29
 STA 3519+88.83



NOTES:

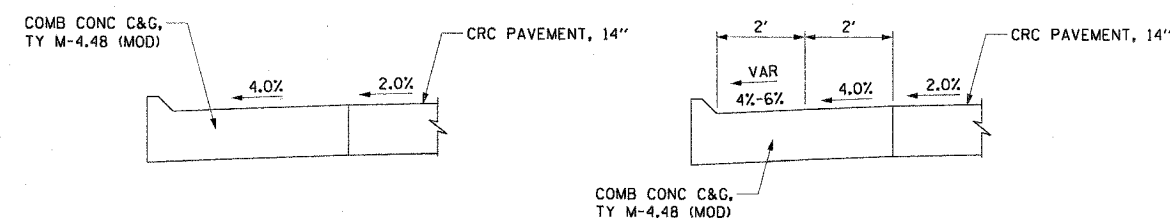
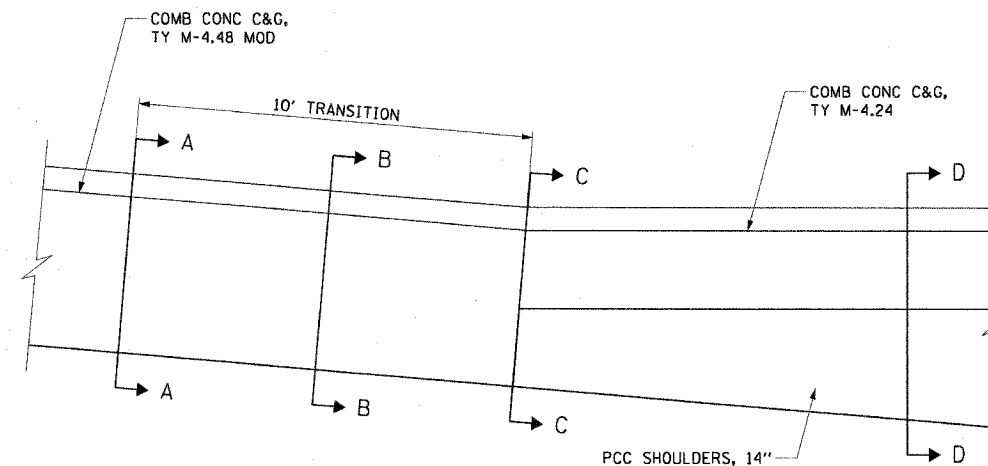
1. THE TRANSITION SECTION SHALL BE PAID FOR AS COMB CONC C&G, TY M-4.24 AND TY M-4.48 (MOD).
2. SEE RDT-7 FOR COMB CONC C&G, TY M-4.48 (MOD) DETAILS.
3. SLOPE FOR TY M-4.24 IS 6% AND SLOPE FOR TY M-4.48 (MOD) IS 4%.

CTE | AECOM

C&G TY M-4.48 (MOD) TRANSITION TO C&G TY M-4.24

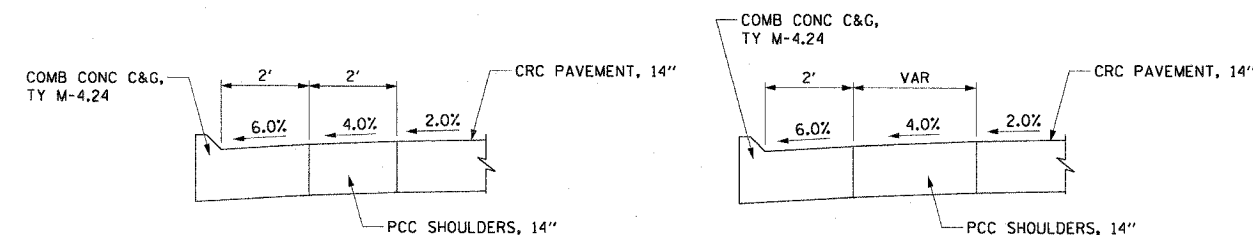
N.T.S.

STA 3492+17.30
 STA 3505+08.48



SECTION A-A
N.T.S.

SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

SECTION D-D
N.T.S.

NOTES:

1. THE TRANSITION SECTION SHALL BE PAID FOR AS COMB CONC C&G, TY M-4.48 (MOD)
2. SEE RDT-7 FOR COMB CONC C&G, TY M-4.48 (MOD) DETAILS.

REVISIONS	
NAME	DATE

RDT-6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

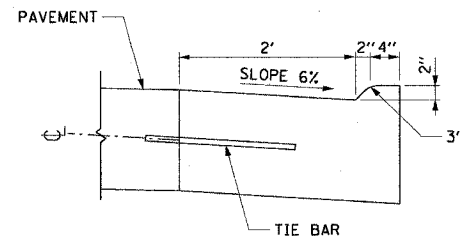
ROADWAY DETAILS
 COMB CONC C&G, TY M TRANSITION
 TY M-4.48 (MOD) TO TY M-4.24 TRANSITION

SCALE: NONE
 DATE: June 9, 2006
 DRAWN BY: NJH
 CHECKED BY: RMG

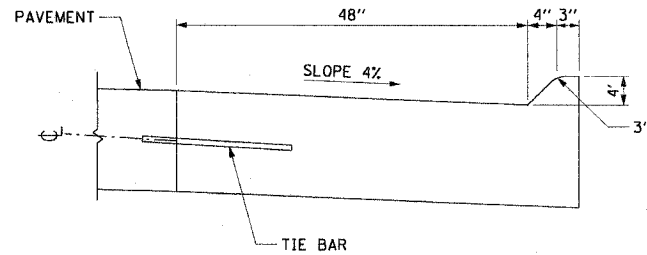
P:\p0468\civ\118-entr\18 & 19\118\118-entr\19\roadway details\cnc\06062006.dwg

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	358
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
62303		(2021-922 PT2 ETC 2324.6-1P) R-11		

COMB CONC C&G, TY M-2.24 AND M-4.48 (MOD) DETAILS
N.T.S.



TY M-2.24

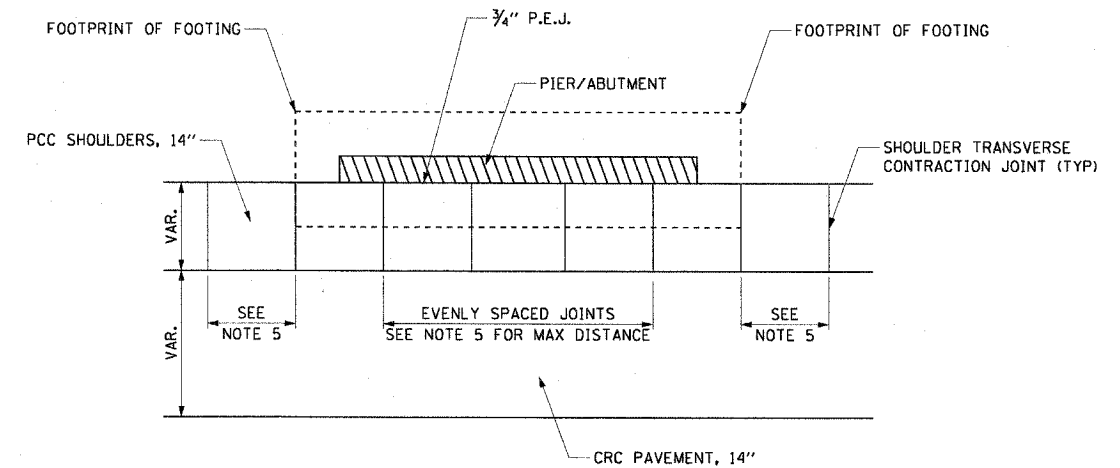


TY M-4.48 (MOD)

NOTES:

- CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 606001 FOR GENERAL NOTES AND PROCEDURES
- TIE BARS SHALL BE INCLUDED IN THE COST OF COMB CONC C&G, TY M-2.24 & TY M-4.48 (MOD).
- FOR THE TY M-2.24 C&G, THE TIE BARS SHALL BE NO. 6 DEFORMED EPOXY, 24" LONG AT 24" C-C.
- FOR THE TY M-4.48 (MOD) C&G, THE TIE BARS SHALL BE NO. 8 DEFORMED EPOXY, 30" LONG AT 24" C-C.

SHOULDER JOINTS AT PIERS AND ABUTMENTS



NOTES:

- CARE SHOULD BE TAKEN WHEN EXCAVATING NEAR AND AROUND EXISTING PIERS AND ABUTMENTS.
- THE CONTRACTOR SHALL VERIFY THE FOOTPRINT OF THE FOOTING DURING EXCAVATION.
- THE MINIMUM WIDTH BETWEEN SHOULDER TRANSVERSE CONTRACTION JOINTS SHOULD BE NO LESS THAN 7' C-C.
- 3/4" P.E.J. SHALL BE INCLUDED IN THE COST OF PCC SHOULDERS, 14".
- THE SPACING OF THE SHOULDER TRANSVERSE CONSTRUCTION JOINT SHALL BE 20' C-C ALONG THE INSIDE SHOULDER AND 15' C-C ALONG THE OUTSIDE SHOULDER.

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ROADWAY DETAILS
MOUNTABLE CURB & GUTTER DETAILS
SHOULDER JOINTS AT PIER/ABUTMENT

SCALE: NONE
DATE: June 9, 2006

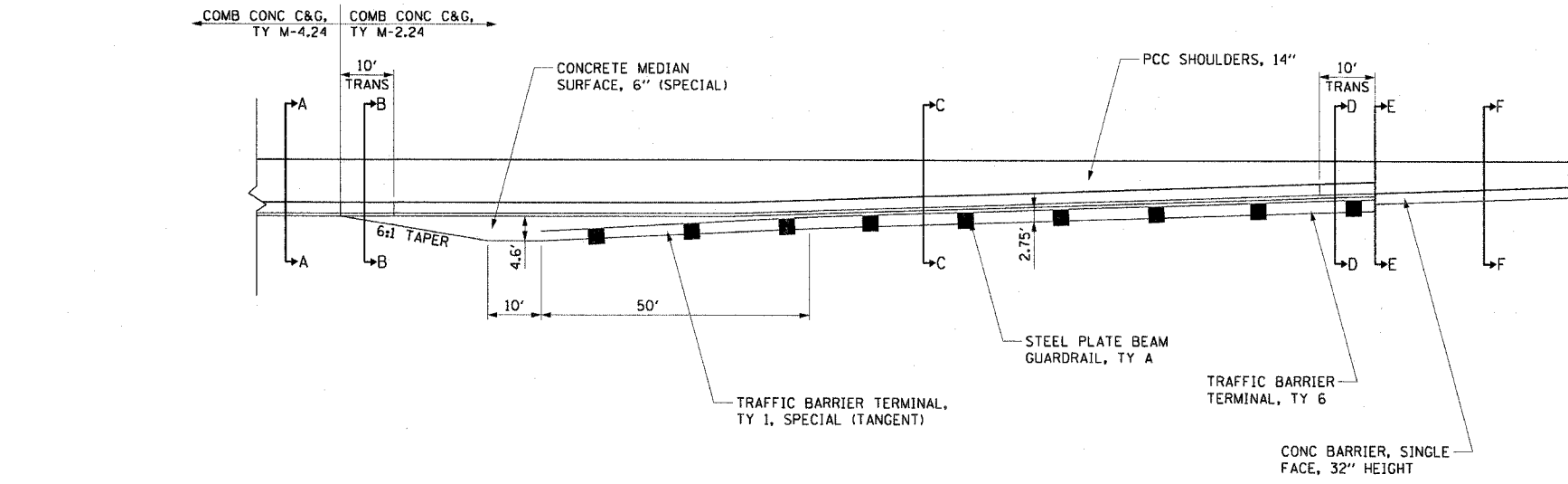
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CHECKED BY: RMG

RD-7

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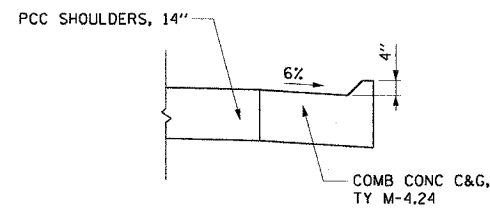
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	360
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		

STABILIZATION AT TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
N.T.S.

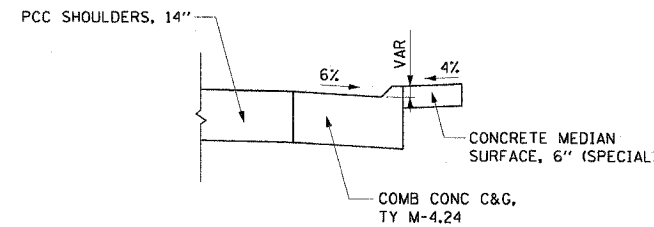


NOTES:

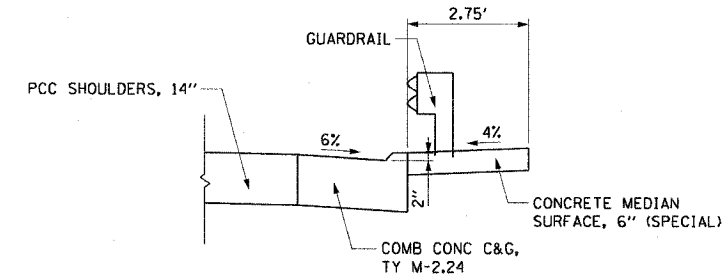
1. THE TRANSITION SECTION IS PAID FOR AS COMB CONC C&G, TY M-2.24.
2. DIMENSIONS OF THE CONCRETE MEDIAN SURFACE ARE TAKEN FROM THE BACK OF CURB.
3. THE CONCRETE MEDIAN SURFACE, 6" (SPECIAL) AT GUARDRAIL LOCATIONS SHALL USE THE INTEGRAL RED CONCRETE WITHOUT THE BRICK PATTERN FINISH.
4. SEE RDT-7 FOR COMB CONC C&G, TY M-2.24 DETAILS.



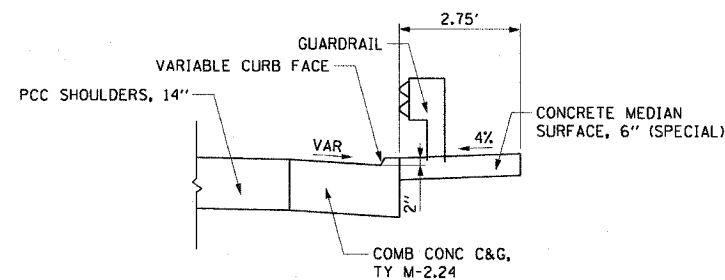
SECTION A-A



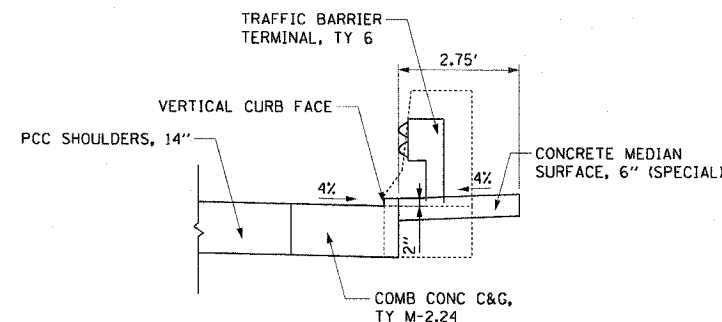
SECTION B-B



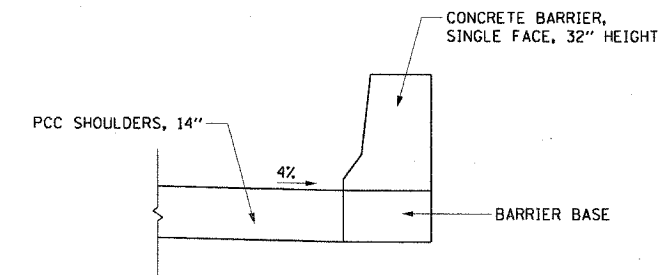
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

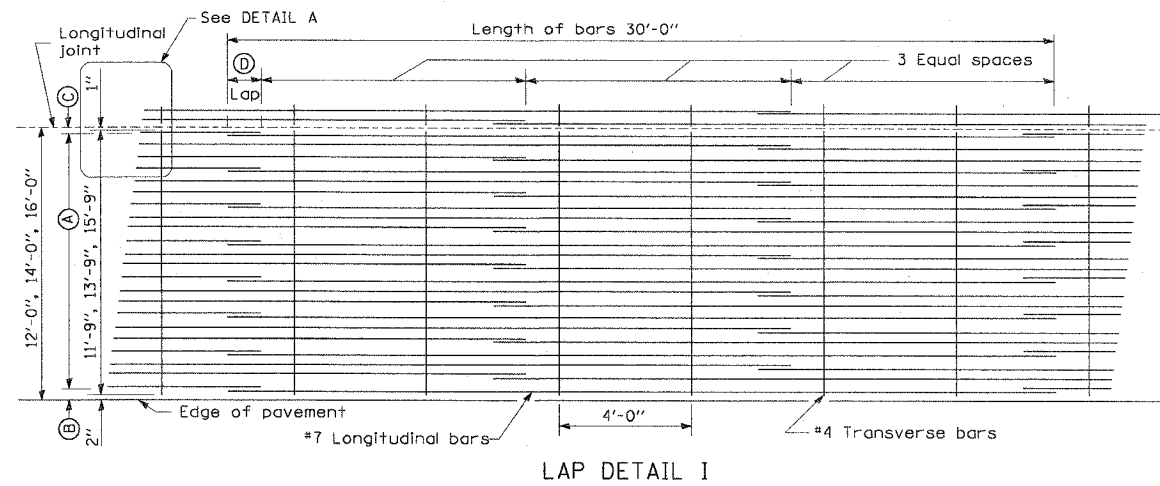
ROADWAY DETAILS
STABILIZATION AT TBT, TY 1, SPECIAL

SCALE: NONE
DATE: June 9, 2006

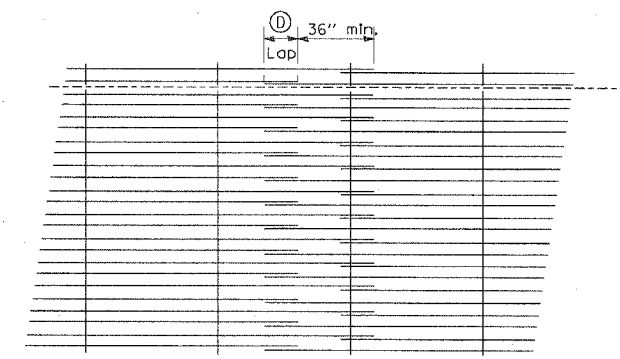
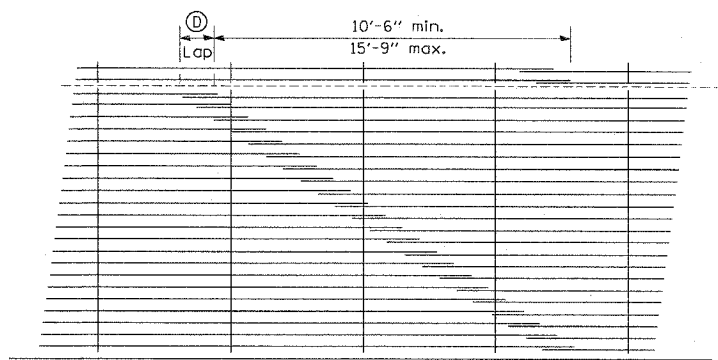
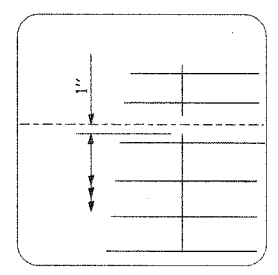
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CHECKED BY: RMG

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	588	361
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			



Pavement Width	Bar Size	Pavement Thickness	(A) (Approx. Spacing)	(B)	(C)	(D)
12 feet	#7	14"	26 spaces (27 bars) @ 5 1/4"	3 1/2"	3"	26"
14 feet	#7	14"	30 spaces (31 bars) @ 5 3/8"	3 1/2"	3"	26"
16 feet	#7	14"	35 spaces (36 bars) @ 5 1/4"	3 1/2"	3"	26"



- NOTES:
1. THE PAVEMENT REINFORCEMENT SHALL BE 4.5" FROM THE TOP OF PAVEMENT.
 2. EXCEPT AS NOTED OR SHOWN, THE DIMENSIONS AND NOTES SPECIFIED FOR LAP DETAIL I ARE TYPICAL FOR LAP DETAIL II AND III.
 3. THE (B) DIMENSION AND THE DISTANCE FROM THE END OF THE TRANSVERSE BAR TO THE EDGE OF PAVEMENT MAY BE INCREASED BY 1" FOR SLIP FORM PAVING.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) ROADWAY DETAILS EXTENDED LANE REINFORCEMENT FOR CONTINUOUSLY REINFORCED PCC PAVEMENT
NAME	DATE	

SCALE: NONE DRAWN BY: NJH
DATE: June 9, 2006 CHECKED BY: RMG

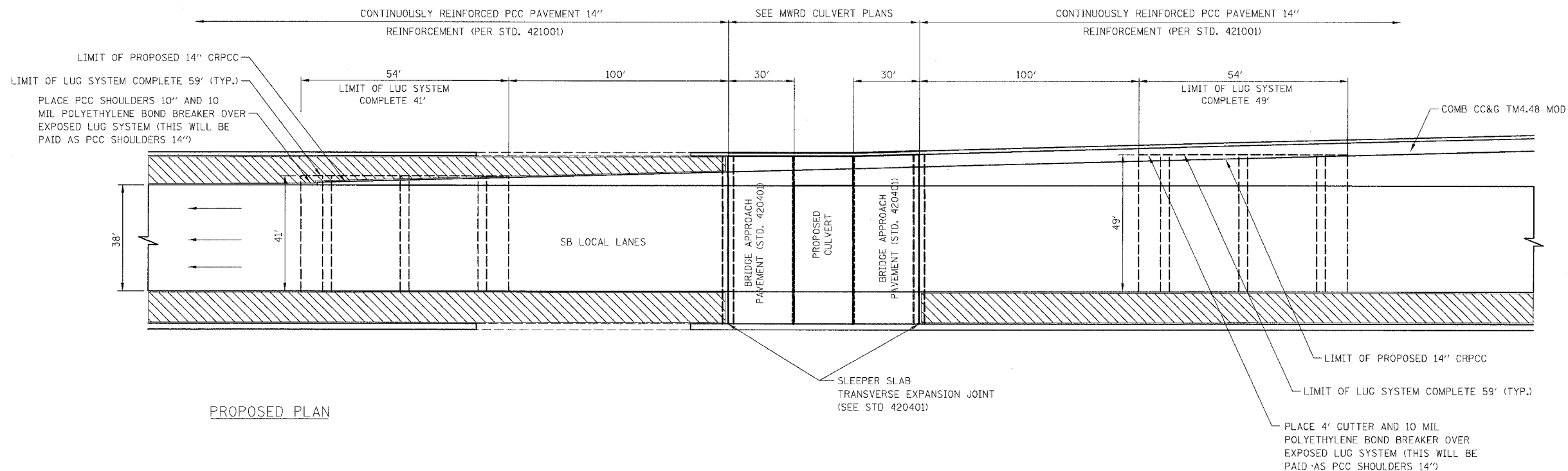
CTE | AECOM

RDT-10

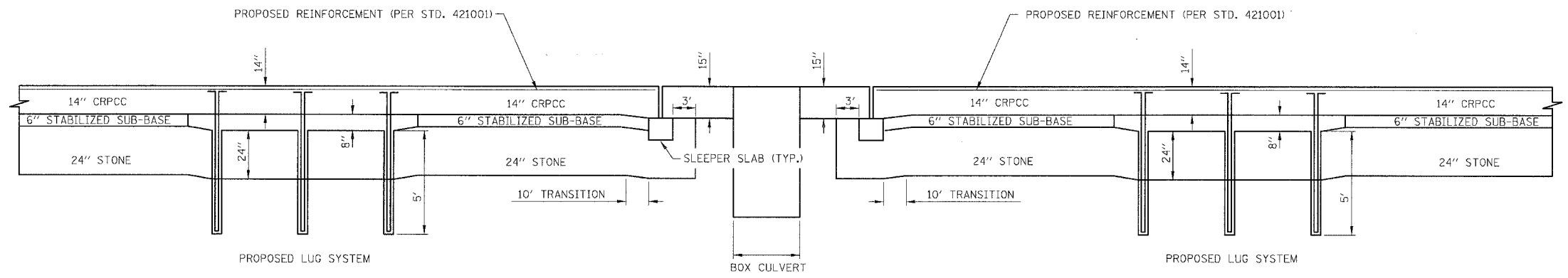
6/7/2006 12:50:17 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	362
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			

RAGEE CONSULTING SHEET 156615R01/100



PROPOSED PLAN



PROPOSED PROFILE

MATERIALS REQUIRED FOR ONE LUG SYSTEM COMPLETE 41'
(EXCLUDING PAVEMENT CONCRETE AND PAVEMENT REINFORCEMENT)

BAR	QTY.	SIZE	LENGTH	SHAPE
a	227	#8	16'-4"	
b	18	#5	41'-9"	
c	227	#5	20'-0"	
d	28	#4	11'-9"	
d	14	#4	13'-9"	
d	14	#4	2'-9"	

CONCRETE 98.95 CU. YDS.
REINFORCING BARS 15,791 LBS.

MATERIALS REQUIRED FOR ONE LUG SYSTEM COMPLETE 49'
(EXCLUDING PAVEMENT CONCRETE AND PAVEMENT REINFORCEMENT)

BAR	QTY.	SIZE	LENGTH	SHAPE
a	271	#8	16'-4"	
b	18	#5	49'-9"	
c	271	#5	20'-0"	
d	28	#4	11'-9"	
d	14	#4	13'-9"	
d	14	#4	10'-9"	

CONCRETE 118.25 CU. YDS.
REINFORCING BARS 18,852 LBS.

NOTE
LUG SYSTEM COMPLETE 41' AND LUG SYSTEM COMPLETE 49' ARE SIMILAR TO (24') CRC PAVEMENT -WITH LUG SYSTEM (STD. 421201). SEE STANDARD 421201 FOR LAYOUT OF REINFORCING BARS AND OTHER APPLICABLE DIMENSIONS.

BOWMAN, BARRETT & ASSOCIATES INC.
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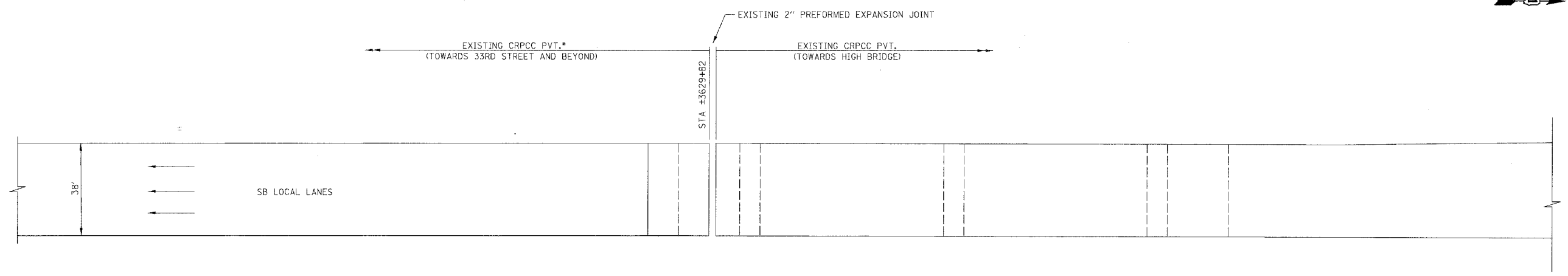
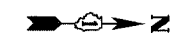
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
LUG SYSTEM INTERFACE AT PERSHING ROAD
SCALE: NTS
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

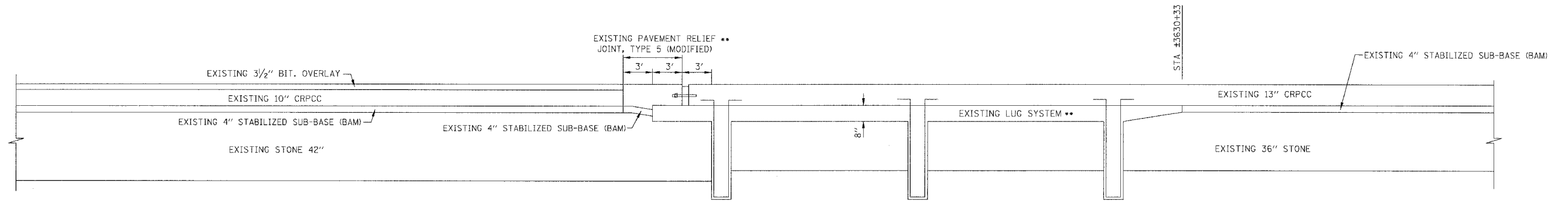
RDT-11

11/5/09 AM 6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	363
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2324.6-1P) R-11			



EXISTING PLAN



EXISTING PROFILE

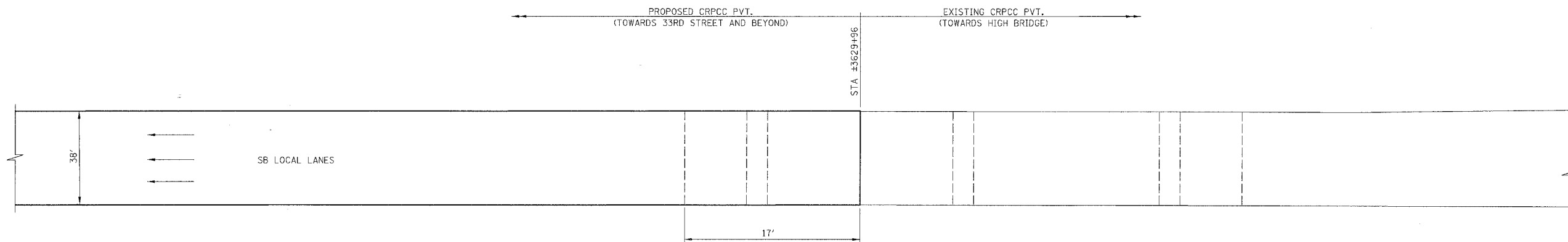
- * LUGS FROM ORIGINAL 1961 CONSTRUCTION WERE REMOVED DURING 1987 HIGH BRIDGE (31ST TO I-290) RECONSTRUCTION.
- ** LUGS AND PAVEMENT RELIEF JOINTS FROM 1987 RECONSTRUCTION OF DAN RYAN HIGH BRIDGE AND APPROACH PAVEMENTS.

BOWMAN, BARRETT & ASSOCIATES INC.
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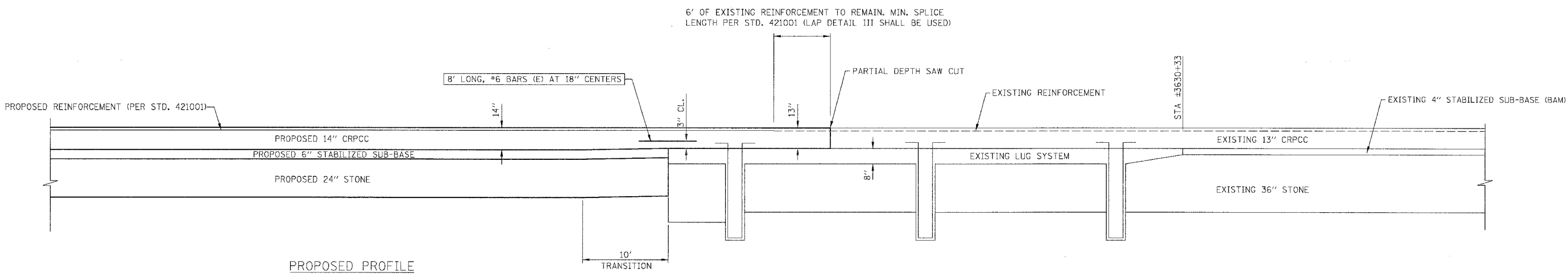
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
LUG SYSTEM INTERFACE AT 31ST STREET
SCALE: NTS
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	364
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2384.6-1P) R-11			



PROPOSED PLAN



PROPOSED PROFILE

NOTES

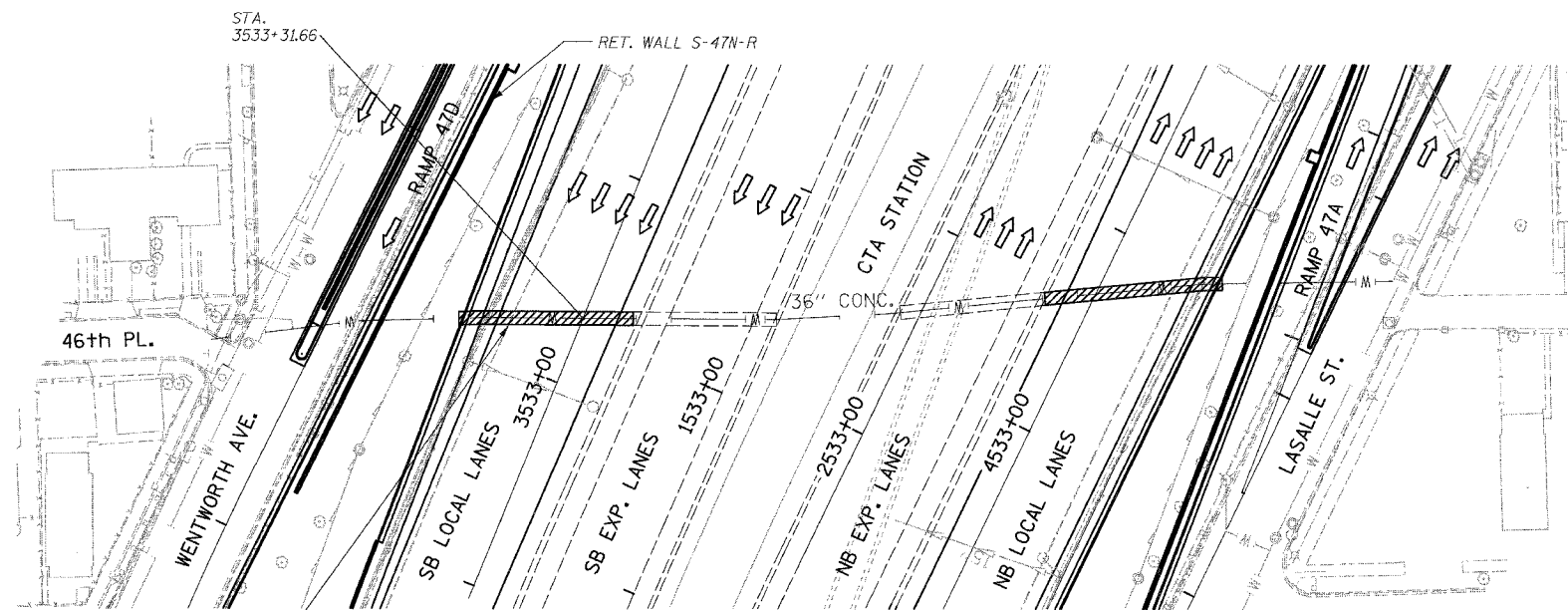
- EXISTING LUG SYSTEM AND RELIEF JOINT LOCATIONS MAY DIFFER FROM STATIONING SHOWN IN PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING LUG SYSTEMS AND RELIEF JOINTS PRIOR TO WORK BEING PERFORMED.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING THE EXISTING CRPCC PAVEMENT SO AS NOT TO DAMAGE THE EXISTING REINFORCEMENT BARS THAT WILL BE TIED INTO. ANY DAMAGE TO THE EXISTING REINFORCEMENT BARS IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
- 8'-#6 BARS ARE TO BE SUPPORTED BY PINS OR OTHER METHOD AS APPROVED BY THE ENGINEER. MUCKING IN OF THE BARS IS NOT ACCEPTABLE. COST OF THESE ADDITIONAL BARS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE PRICE FOR CRPCC PAVEMENT 14".
- TRANSITION AREA FROM 13" TO 14" CRPCC AND 13" CRPCC WILL BE PAID AS CRPCC PAVEMENT 14".

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REVISIONS	
NAME	DATE

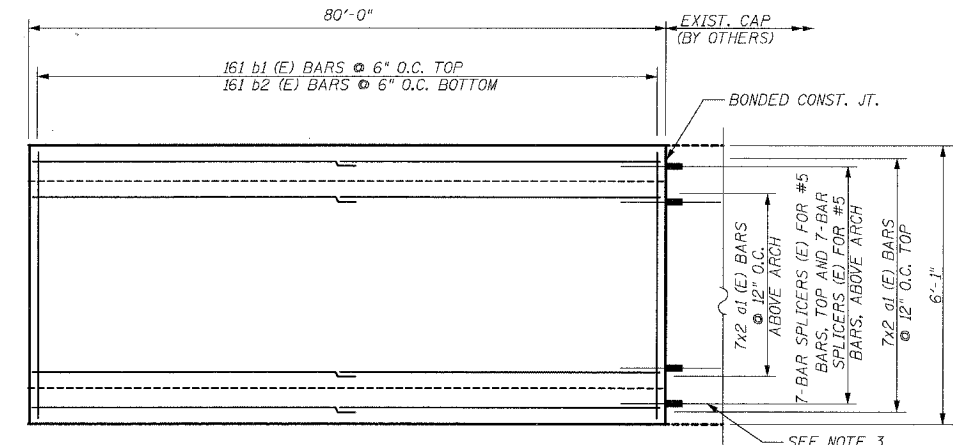
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
LUG SYSTEM INTERFACE AT 31ST STREET
SCALE: NTS
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	365
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		(2021-922 FT2 ETC 2324.6-1P) R-11		

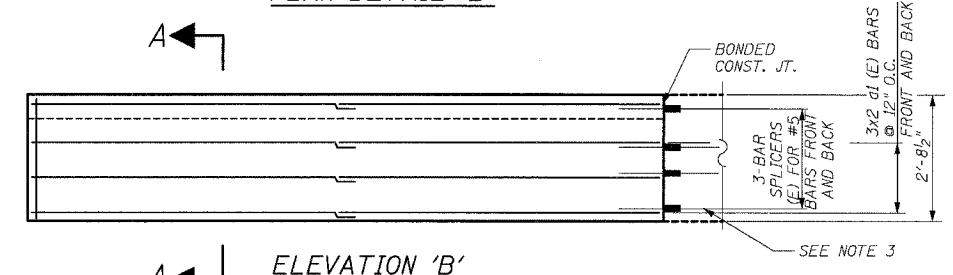


THIS PORTION OF PLAN PROVIDED FOR INFORMATION ONLY, NOT IN CONTRACT.

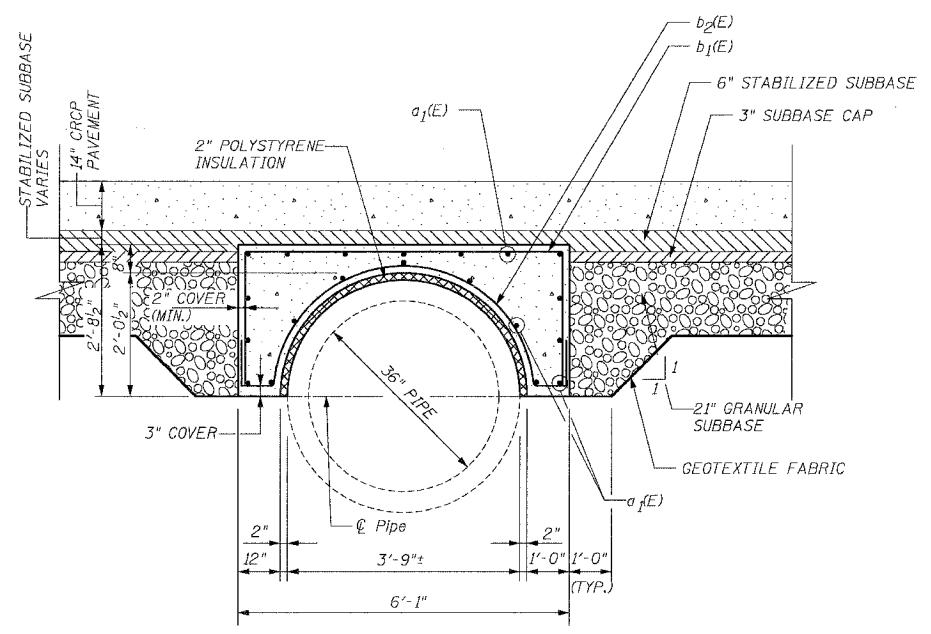
TOPOGRAPHIC PLAN



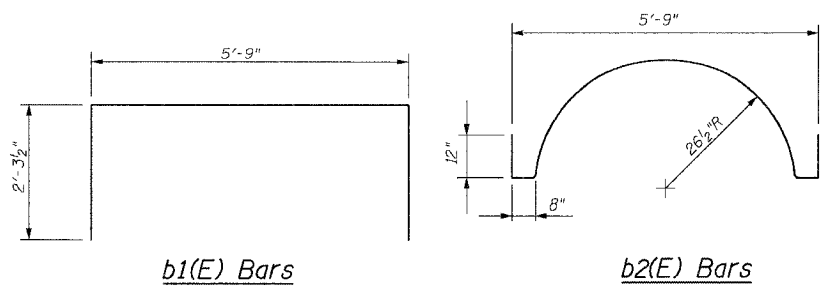
PLAN DETAIL 'B'



ELEVATION 'B'



SECTION A-A



b1(E) Bars

b2(E) Bars

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1(E)	40	#5	41'-0"	—
b1(E)	161	#5	10'-4"	□
b2(E)	161	#5	10'-3"	⤴
REINFORCEMENT BARS, EPOXY COATED			POUNDS	5,170
CONCRETE STRUCTURES			CU. YD.	29.5

NOTES:

- THE 2" POLYSTYRENE INSULATION SHALL BE INCLUDED IN THE COST OF 36" WATER MAIN PROTECTION CAP CONSTRUCTION. THE ESTIMATED QUANTITY IS 472 SQ. FT.
- ADDITIONAL GRANULAR SUB-BASE REQUIRED AS SHOWN IN SECTION A-A OR AS DIRECTED BY ENGINEER WILL BE INCLUDED IN THE COST OF SUB-BASE GRANULAR MATERIAL, TYPE B 24".
- CONTRACTOR SHALL BE PROVIDED BAR SPLICER "TAILS" FROM THE ENGINEER & SHALL INSTALL THEM IN PREVIOUSLY PLACED THREADED COUPLERS. CLEAN COUPLERS AS REQUIRED TO RECEIVE TAILS. COST INCLUDED WITH REINFORCEMENT BARS, EPOXY COATED.
- DEVIATE CAP AND REINFORCEMENT AS NECESSARY TO FOLLOW LAYOUT OF PIPE.
- ALL BARS DESIGNATED (E) MUST BE EPOXY COATED.
- ALL BARS MUST BE #5 BARS WITH A MINIMUM LAP OF 2'-2".

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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RDWY DETAILS - 46TH ST CROSSING
36" WATER MAIN PROTECTION CAP**

SCALE: NTS
DATE: JUNE 9, 2006

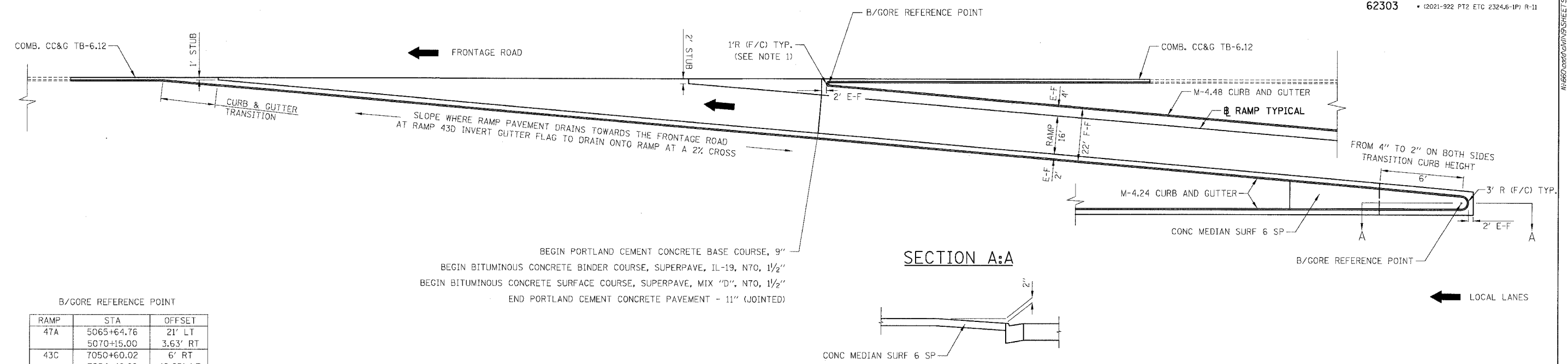
DRAWN BY: MTR
CHECKED BY: BLU

RDT-13

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6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	366
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 23246-1P) R-11			

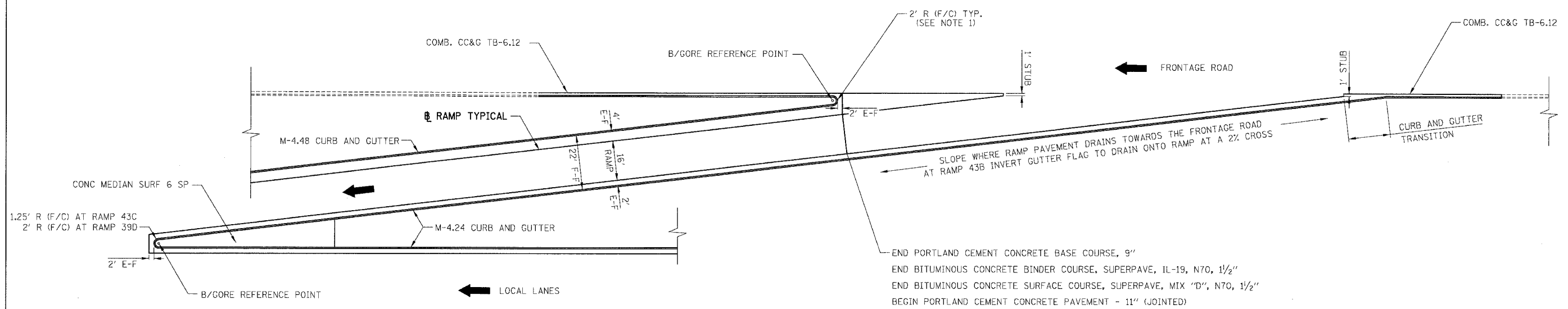
EXIT RAMP GORES



B/GORE REFERENCE POINT

RAMP	STA	OFFSET
47A	5065+64.76	21' LT
	5070+15.00	3.63' RT
43C	7050+60.02	6' RT
	7054+49.88	19.25' LT
43A	5043+05.14	21' LT
	5047+91.52	5' RT
39D	7040+67.82	6' RT
	7045+63.29	20' LT
T35D	7043+53.64	20' LT
T39A	5023+78.33	21' LT
35A	5003+65.41	21' LT
31D	-	-

ENTRANCE RAMP GORES



NOTES:

1. TRANSITION 6" TO 4" CURB HEIGHT AND GUTTER CROSS-SLOPE OVER THE LENGTH OF THE GORE CIRCUMFERENCE.
2. PLACE CONCRETE MEDIAN SURFACE 6" SPECIAL UNTIL THE WIDTH BETWEEN THE BACK OF C&G'S IS 6' UP TO A MAXIMUM LENGTH OF 25' OR AS SHOWN ON THE PLANS.
3. 2" CURB AND VARIABLE HEIGHT CURB AT LOCAL LANE EXIT GORE NOSE WILL BE PAID AS M-4.24 CURB AND GUTTER.
4. DEPRESS CURB IN FRONT OF AND ADJACENT TO AN ATTENUATOR

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

Roadway Details
 TYPICAL RAMP GORES

SCALE: NONE
 DATE: 06/09/06

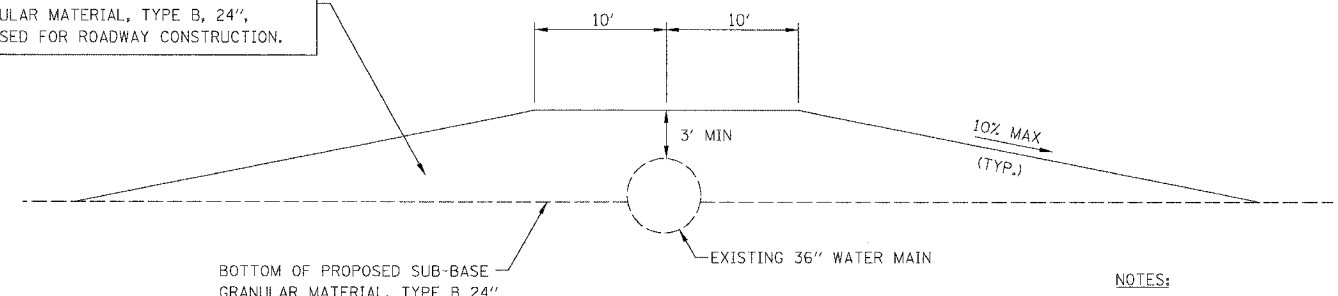
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RDT-14

11:54:45 AM
 6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	367
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			

SUB-BASE GRANULAR MATERIAL, TYPE B MATERIAL WILL BE REUSED AS SUB-BASE GRANULAR MATERIAL, TYPE B, 24", AS USED FOR ROADWAY CONSTRUCTION.

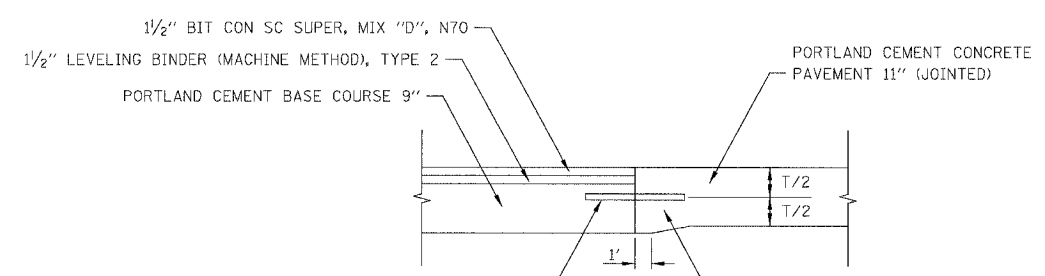


BOTTOM OF PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 24"
EXISTING 36" WATER MAIN

CONSTRUCTION PROTECTION
STA. 4533+69

NOTES:

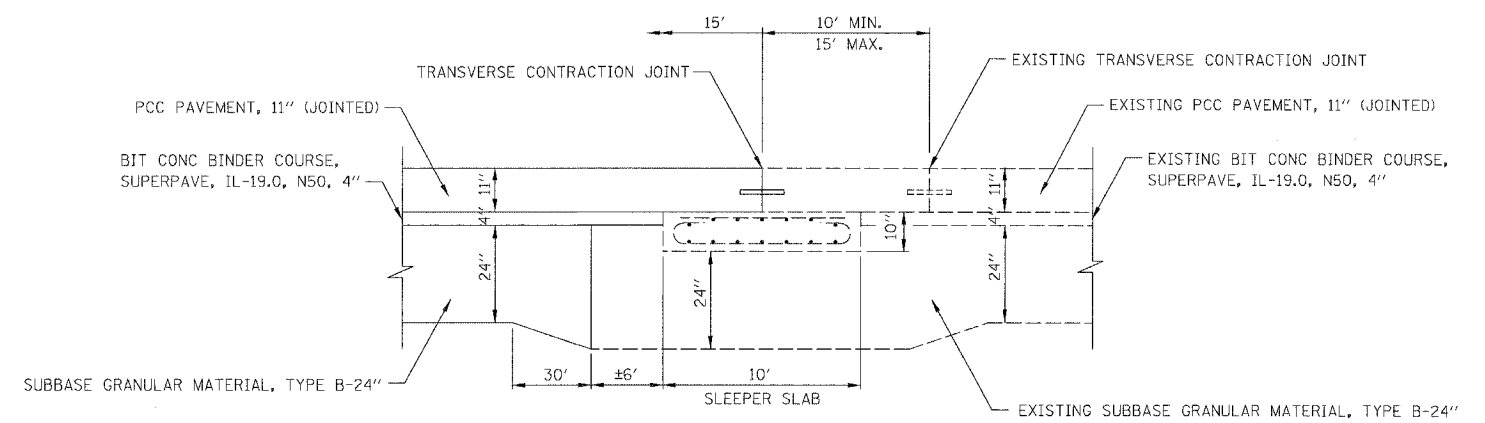
- CONTRACTOR WILL PROVIDE A MINIMUM COVER, AS SHOWN ABOVE AT ALL TIMES DURING CONSTRUCTION AND PRIOR TO THE INSTALLATION OF THE PERMANENT WATER MAIN PROTECTION CAP. CONSTRUCTION TRAFFIC SHALL NOT CROSS THE WATER MAIN PIPE WITHOUT PROTECTION IN PLACE.
- CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF THE WATER MAIN PIPE THROUGH OUT THE DURATION OF THE PROJECT AND WILL NOT BE PAID FOR ANY REPAIRS REQUIRED, AS DETERMINED BY THE ENGINEER, TO THE PIPE, DUE TO CONSTRUCTION ACTIVITIES.



POUR IN PLACE 1/2" DIA. TIE BARS (EPOXY COATED) 18" LONG AT 12" CENTERS. INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED).

PAVEMENT THICKENING AT THE RATE OF 1" OF DEPTH PER 5' OF LONGITUDINAL PAVEMENT. ADDITIONAL THICKNESS IS INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)

PAVEMENT TRANSITION BETWEEN FRONTAGE ROAD AND RAMP



SLEEPER SLAB INTERFACE

RAMP T35D STA 7043+08.6
RAMP T39A STA 5024+32.5
RAMP 35A STA 5004+04.9
RAMP 31D STA 7004+63.8

NOTES:

- 10 MIL. POLYETHYLENE BOND BREAKER WAS PLACED ON THE EXISTING SLEEPER SLABS BY THE PREVIOUS CONTRACT ALONG WITH A 3" PREFORMED EXPANSION JOINT AT THE TEMPORARY PAVEMENT LIMIT. THE EXISTING SLEEPER SLABS MUST NOT BE DAMAGED BY THE TEMPORARY CONCRETE PAVEMENT REMOVAL OPERATIONS DONE BY THIS CONTRACT.
- THE AREAS OF VARYING HEIGHT SUB-BASE GRANULAR MATERIAL, TYPE B WILL BE PAID FOR AS SUB-BASE GRANULAR MATERIAL, TYPE B-24".

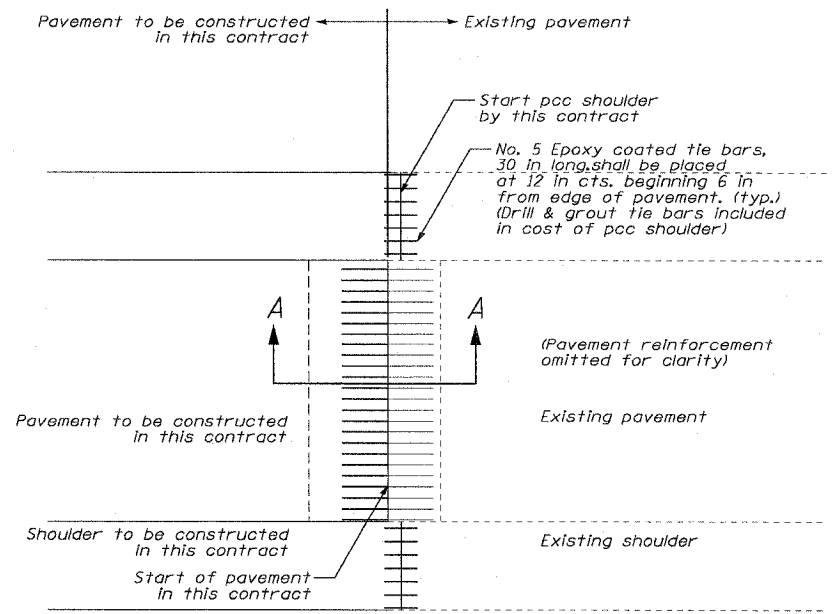
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REVISIONS	
NAME	DATE

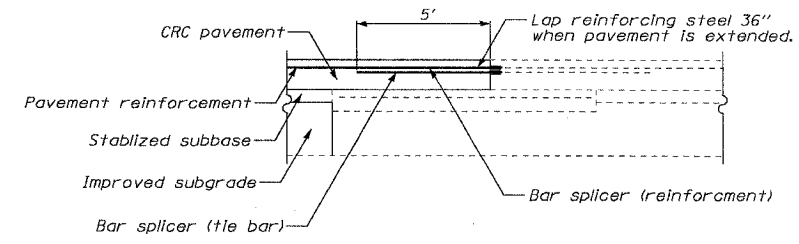
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
CONSTRUCTION PROTECTION
PVT TRAN BTWN FRONTAGE RD & RAMP
SLEEPER SLAB INTERFACE
SCALE: NONE
DATE: 06/09/06
DRAWN BY: JDC
CHECKED BY: RS

RDT-15

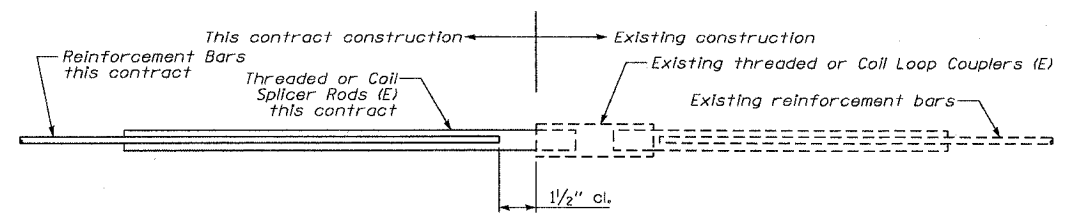
11/5/2006
6/8/2006



PLAN
(CONNECTION TO EXISTING LONG TERM TRANSVERSE CONSTRUCTION JOINT)



LONG TERM TRANSVERSE CONSTRUCTION JOINT SECTION A-A



BAR SPLICER ASSEMBLY DETAIL
(E) : Indicates epoxy coating.



ROLLED THREAD DOWEL BAR

NOTES

1. This detail shows connection of proposed CRC pavement to existing pavement at an existing long term transverse construction joint.
2. Bar splicer assemblies shall be of an IDOT approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
3. Bar splicers shall be of the "coupler" type, and shall not have flanges.
4. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
5. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
6. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
7. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:
 - A. Minimum Capacity (Tension in ksi) = $1.25 \times f_y \times A(t)$
 - B. Minimum Pull-out Strength (Tension in ksi) = $1.25 \times f_s(\text{allow}) \times A(t)$

Where:
 f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_s(\text{allow})$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 $A(t)$ = Tensile stress area of lapped reinforcement bars (in^2).
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	STRENGTH REQUIREMENTS	
		Min. Capacity (kips) tension	Min. Pull-Out Strength (kips) tension
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0

8. Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted.
9. Reinforcement shall not be paid for separately but included in the cost of PAVEMENT REINFORCEMENT, 14"
10. Connection to long term transverse construction joint work includes the installation of the bar splicers, payment for this work will be included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14". Tie bars to be drilled and grouted shall not be paid for separately but included in the cost of PORTLAND CEMENT CONCRETE SHOULDERS, 14"

GENERAL NOTES

1. See Standard 421001 for details of CRC pavement reinforcement.
2. See Standards 420001 and 420401 for details of joints and tie bars not shown.
3. See Standard 483001 for pcc shoulder details

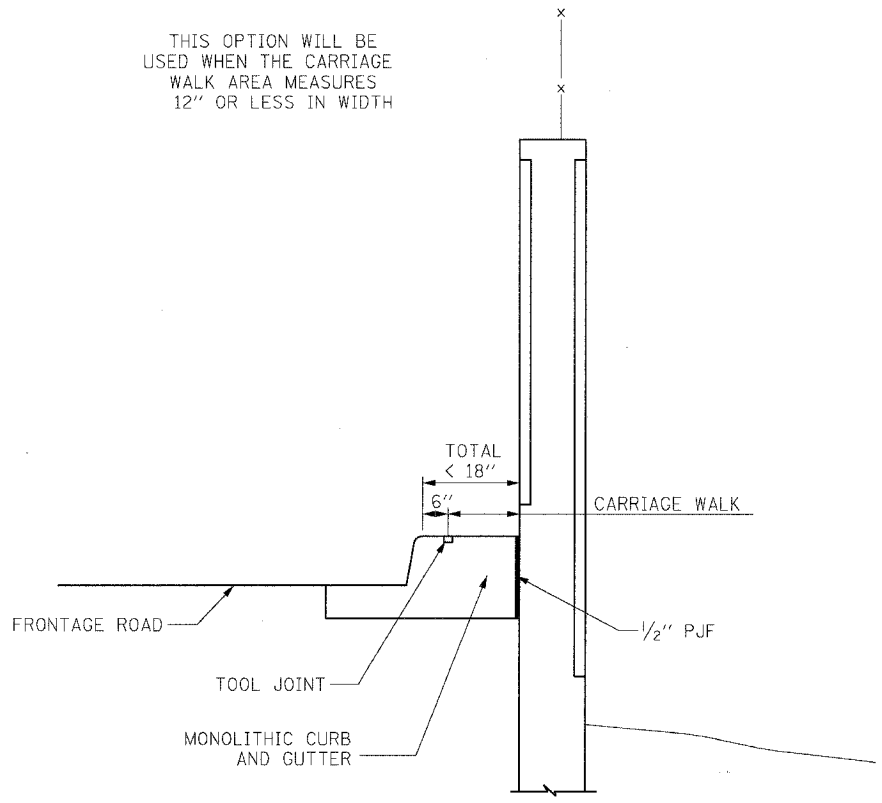


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) ROADWAY DETAILS CONNECTION TO EXISTING LONG TERM TRANSVERSE CONSTRUCTION JOINT
NAME	DATE	
SCALE: NONE		DRAWN BY: TAI
DATE: June 9, 2006		CHECKED BY: PJM

RDT-16

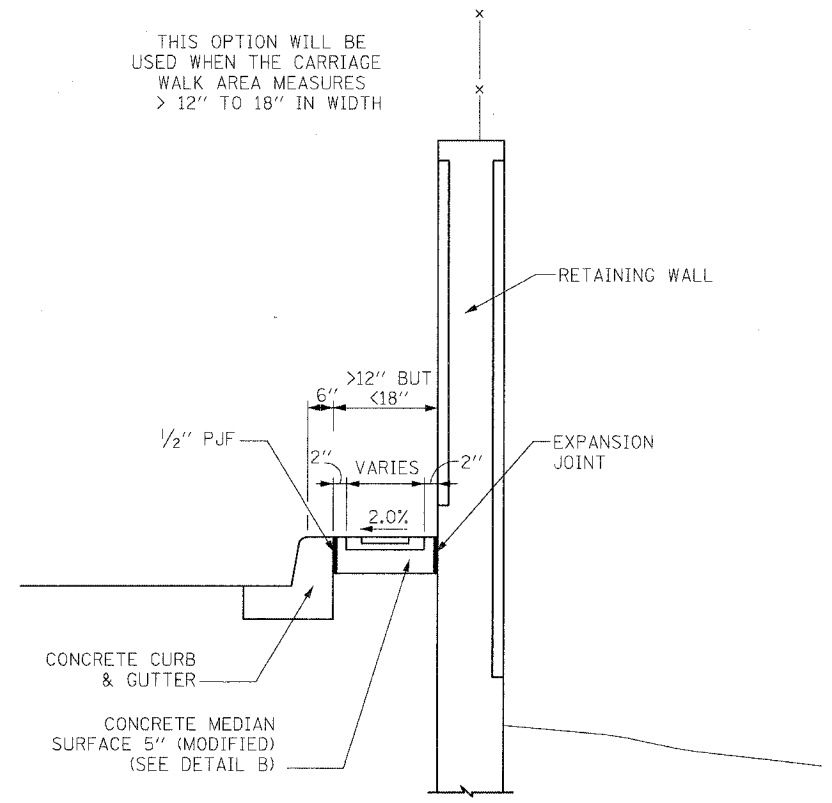
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	369
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	• (2021-922 PT2 ETC 2324.6-1P) R-11			



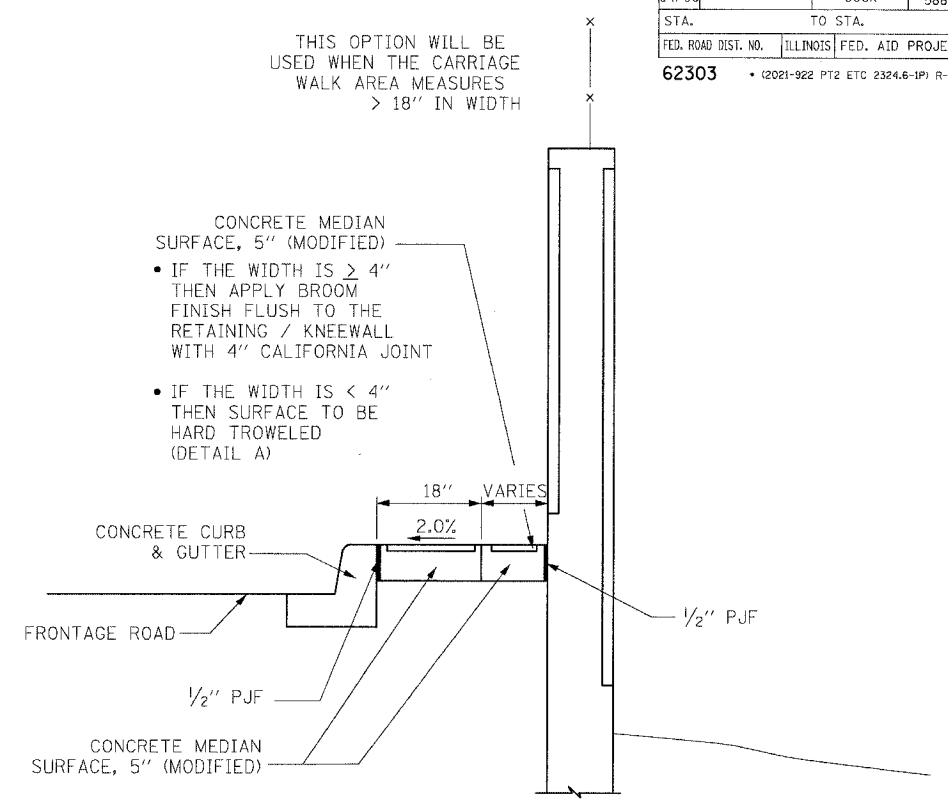
THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES 12" OR LESS IN WIDTH

CARRIAGE WALK
AREA < 12"



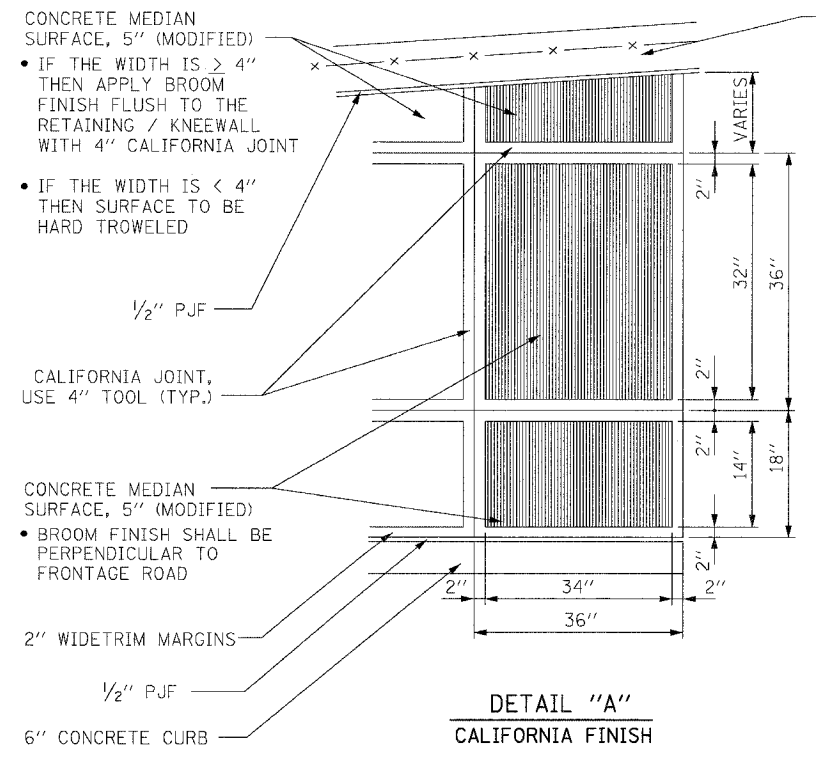
THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES > 12" TO 18" IN WIDTH

CARRIAGE WALK
AREA > 12" TO 18"

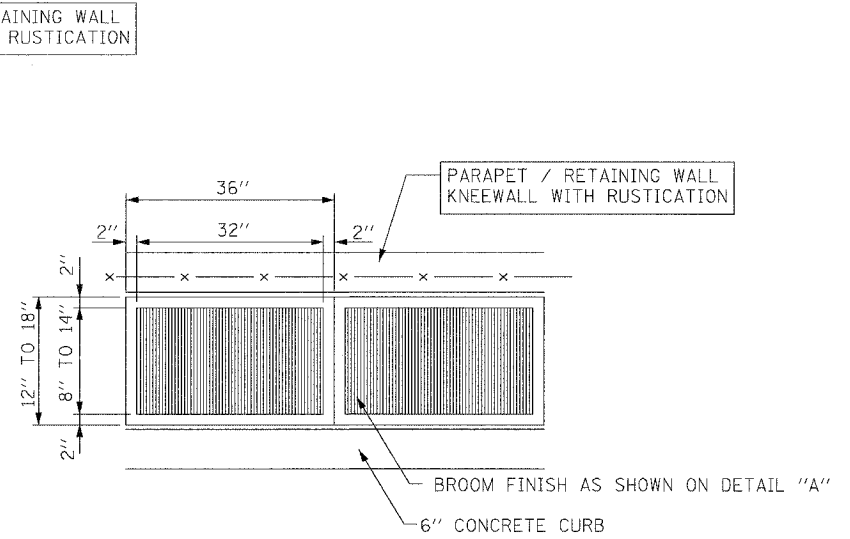


THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES > 18" IN WIDTH

CARRIAGE WALK
AREA > 18"



DETAIL "A"
CALIFORNIA FINISH



DETAIL "B"
CALIFORNIA FINISH

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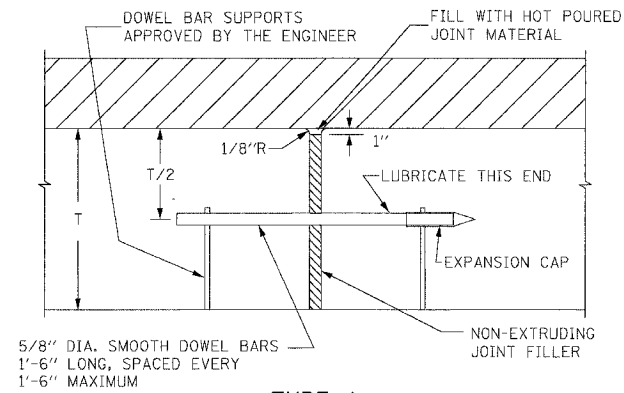
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
CONCRETE MEDIAN SURFACE 5"
(MODIFIED) CALIFORNIA FINISH
SCALE: NONE
DATE: 06/09/06
DRAWN BY: CTE
CHECKED BY: JDC

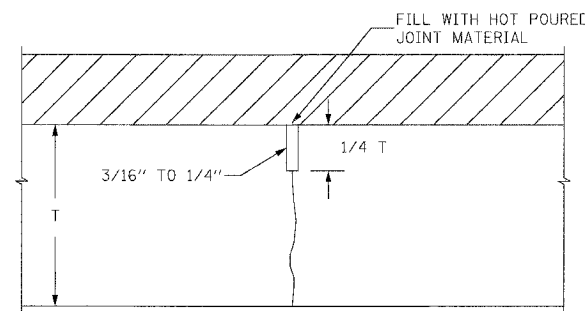
RDT-17

11/5/05 AM
6/18/2006

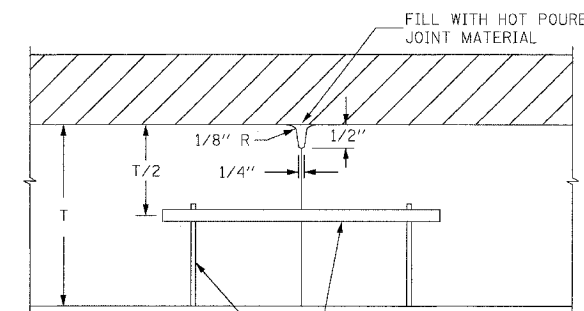
P.C.C. BASE COURSE JOINT DETAILS



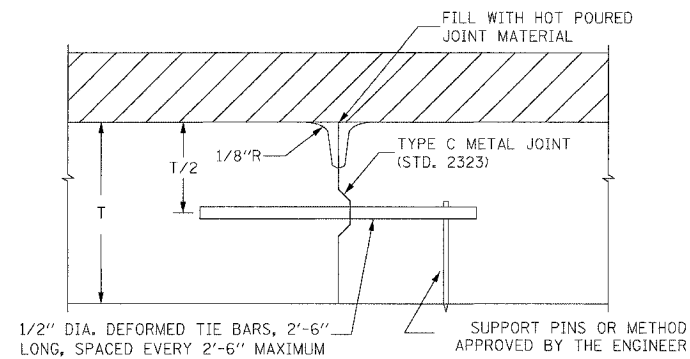
TYPE A
EXPANSION JOINT
(MAY BE CONSTRUCTION JOINT)



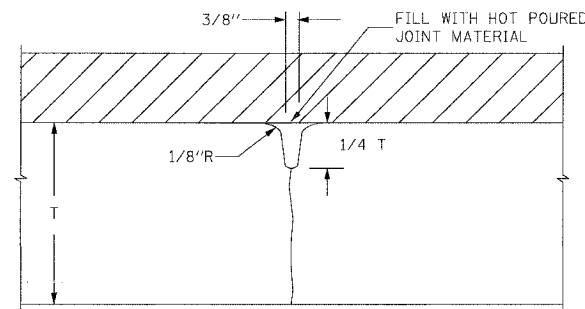
TYPE D
SAWED CONTRACTION JOINT
LONGITUDINAL OR TRANSVERSE



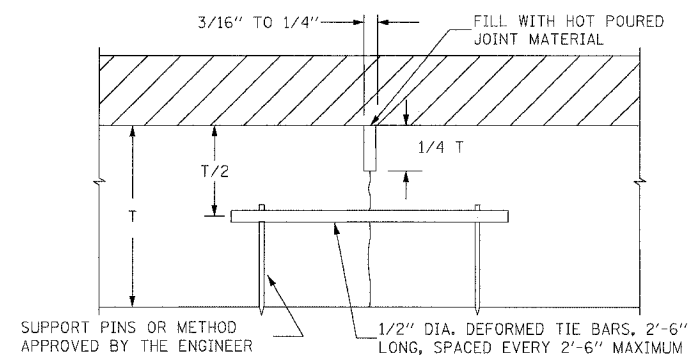
TYPE E
TRANSVERSE CONSTRUCTION JOINT



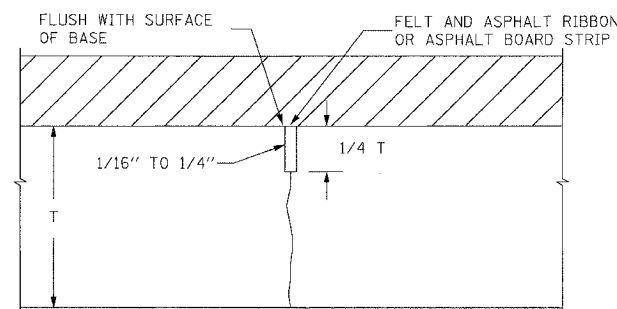
TYPE B
KEYED CONSTRUCTION JOINT
LONGITUDINAL OR TRANSVERSE



TYPE D
DUMMY GROOVE CONTRACTION JOINT
TRANSVERSE ONLY



TYPE C
SAWED LONGITUDINAL JOINT



TYPE D
PREMOLDED CONTRACTION JOINT
TRANSVERSE ONLY

NOTES:

1. DEFORMED TIE BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 WITH AN ELONGATION NOT LESS THAN 20%.
2. HOT POURED JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-173-60 FOR CONCRETE JOINT SEALER.
3. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED.
4. SPLIT BOARD HEADERS WILL NOT BE ALLOWED.

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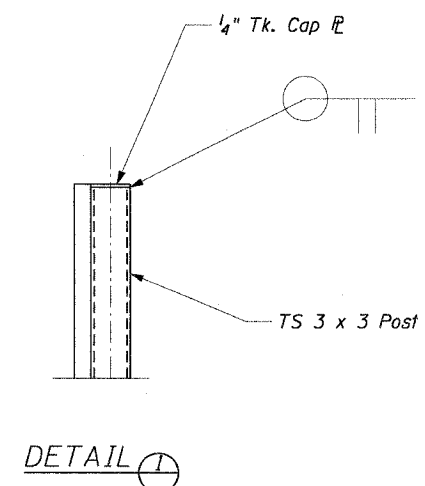
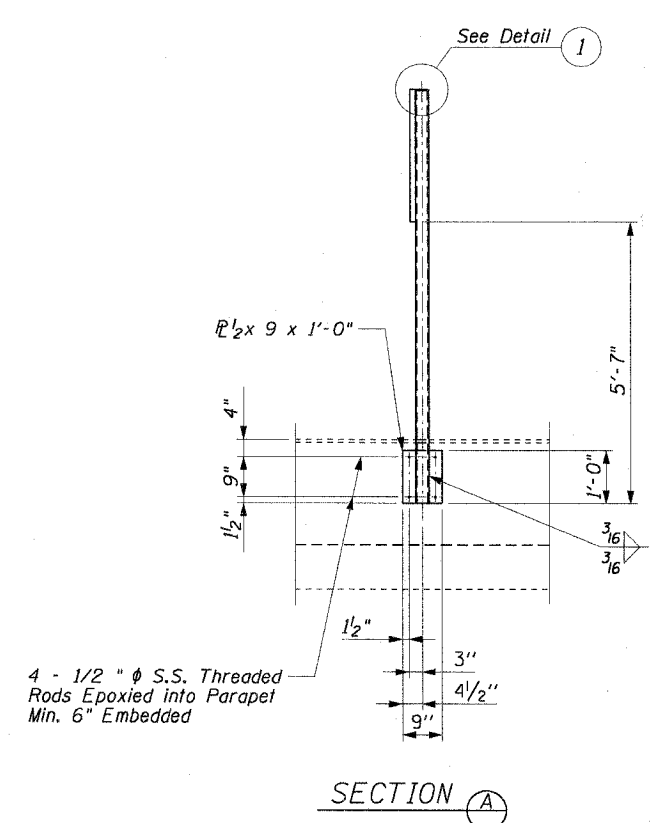
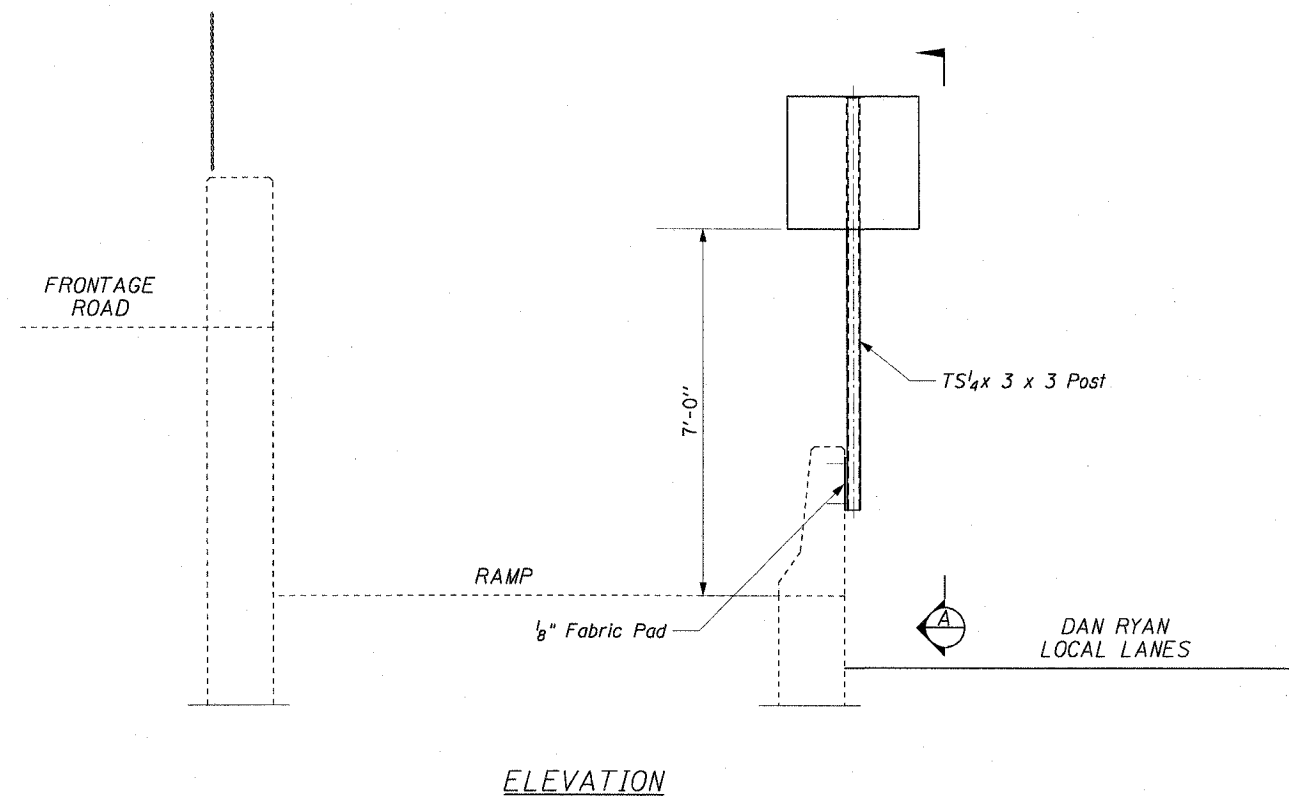


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
CITY STANDARD DETAILS
PAVEMENT JOINT DETAILS
SCALE: NONE
DATE: 06/09/06
DRAWN BY: CTE
CHECKED BY: JDC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	372
STA.		TO STA.		
62303		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		• (2021-922 PT2 ETC 2324.6-IP) R-11		

EXISTING BARRIER WALL SIGN POST MOUNTING DETAILS



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 Base For Telescoping Steel Sign Support.

CTE | AECOM

REVISIONS	
NAME	DATE

RDT-19

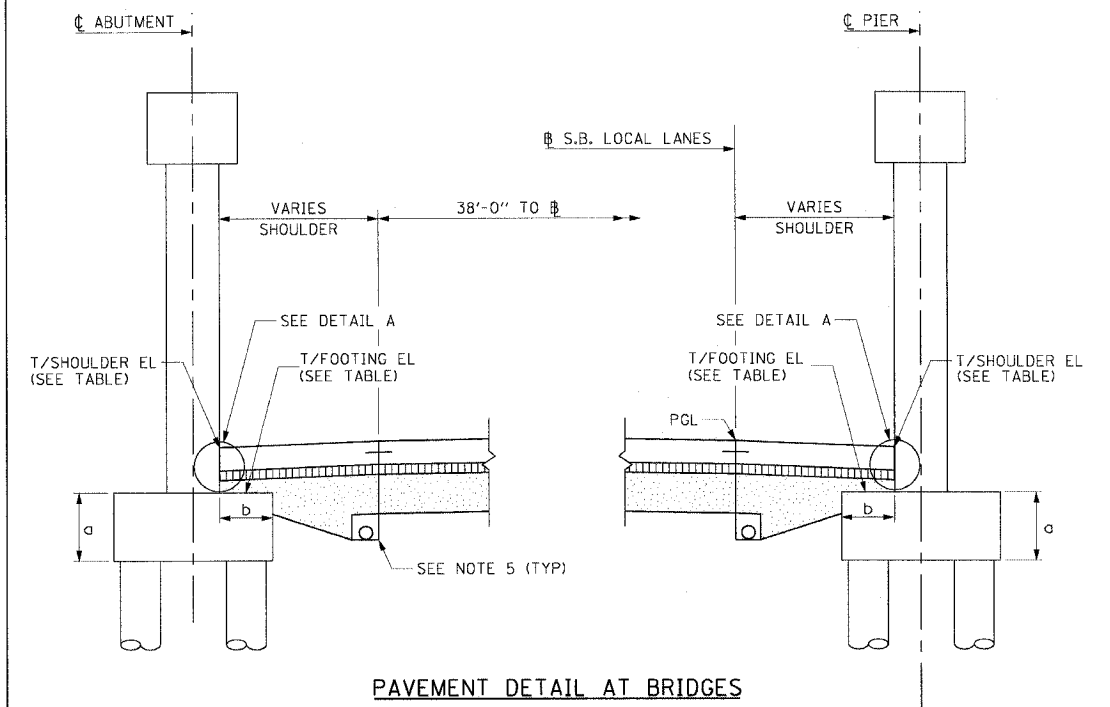
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

ROADWAY DETAILS
EXISTING BARRIER WALL
SIGN POST MOUNTING DETAILS

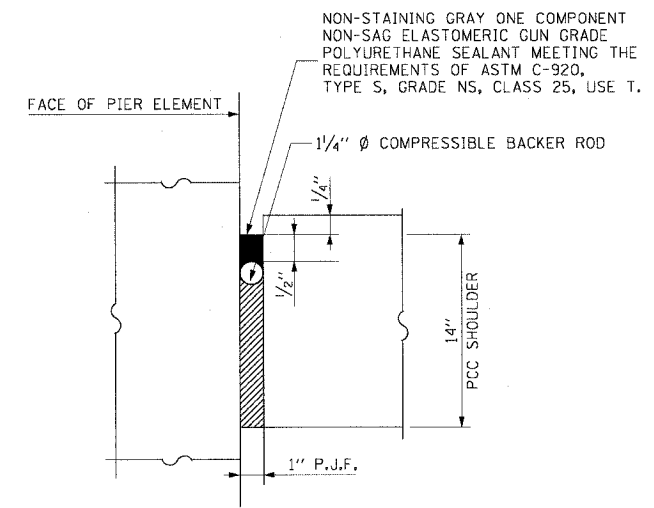
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DATE: June 9, 2006

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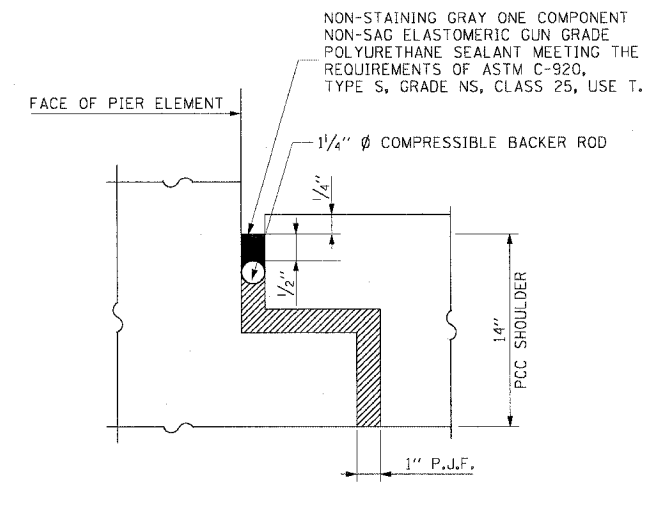
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LOCATION	PIER	T/FOOTING EL	FOOTING THICKNESS "a" (FT)	TOE WIDTH "b" (FT)	T/SOULDER EL	
					MAX	MIN
51ST ST	W. ABUT.	-4.35	2.50	2.50	-2.48	-3.29
	1	-4.13	2.50	2.50	-1.13	-2.95
47TH ST	W. ABUT.	-3.92	2.00	3.00	-0.96	-0.18
	1 (NW)	-7.06	2.00	1.75		-3.30
	1 (SW)	-4.81	2.00	1.75		-4.01



DETAIL A
COST OF P.J.F., BACKER ROD AND SEALANT INCLUDED WITH PCC SHOULDER



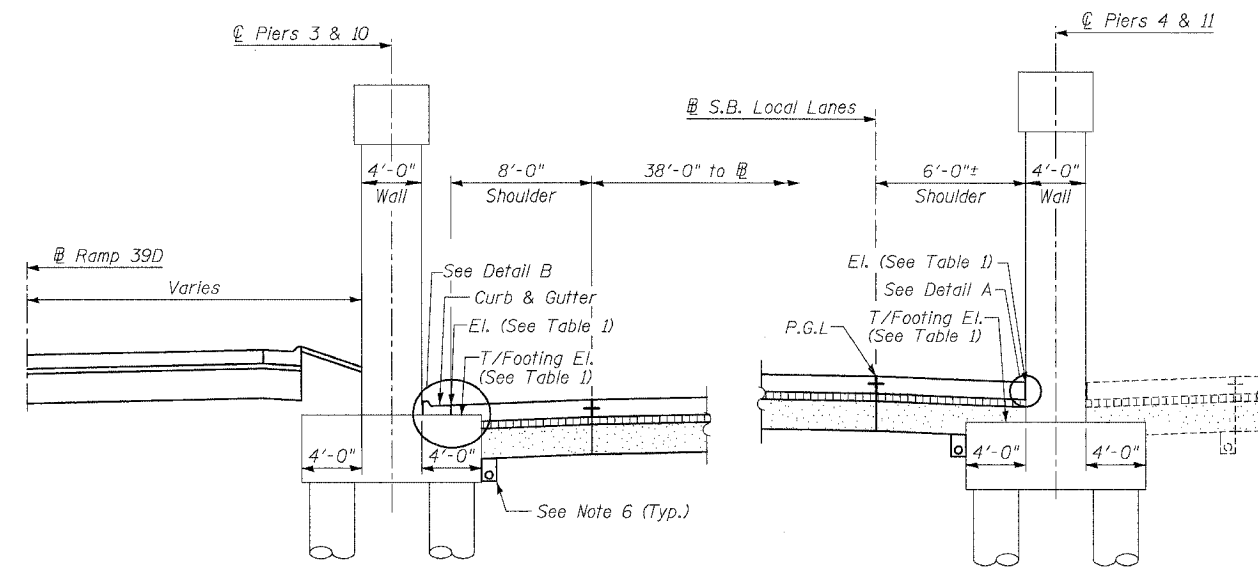
DETAIL B
COST OF P.J.F., BACKER ROD AND SEALANT INCLUDED WITH PCC SHOULDER

- LEGEND:**
- STABILIZED SUB-BASE 6"
 - SUB-BASE GRANULAR MATERIAL, TY B 24"

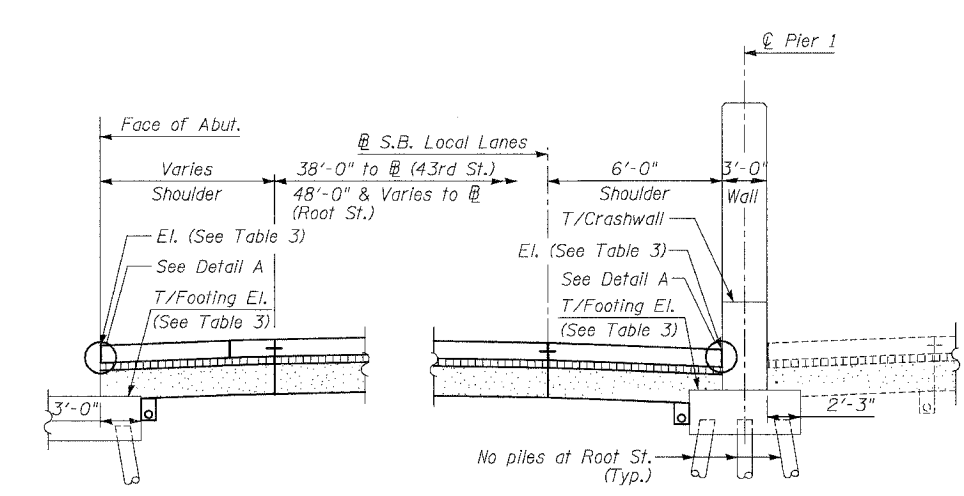
- NOTES:**
- SEE TYPICAL SECTIONS FOR COMPOSITION OF EXISTING AND PROPOSED PAVEMENT.
 - ALL VIEWS LOOKING NORTH.
 - CONTRACTOR SHALL USE CAUTION DURING PAVEMENT REMOVAL AND EXCAVATION OPERATIONS AROUND EXISTING OVERHEAD BRIDGE FOUNDATION.
 - PROVIDE 10 MIL POLYETHYLENE BOND BRAKER AND POUR SHOULDER PAVEMENT DIRECTLY ON PIER FOOTING.
 - SEE DRAINAGE AND UTILITY SHEETS FOR LOCATION OF PIPE UNDERDRAINS 6".
 - SEE DETAIL B WHEN PCC SHOULDER IS LOCATED WITHIN THE FOOTING.
 - THE ADDITIONAL DEPTH OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST OF SUB-BASE GRANULAR MATERIAL, TY B, 24".

REVISIONS	
NAME	DATE

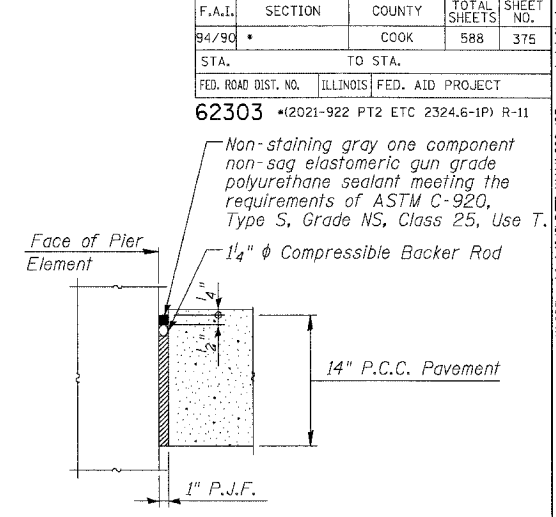
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	375
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		



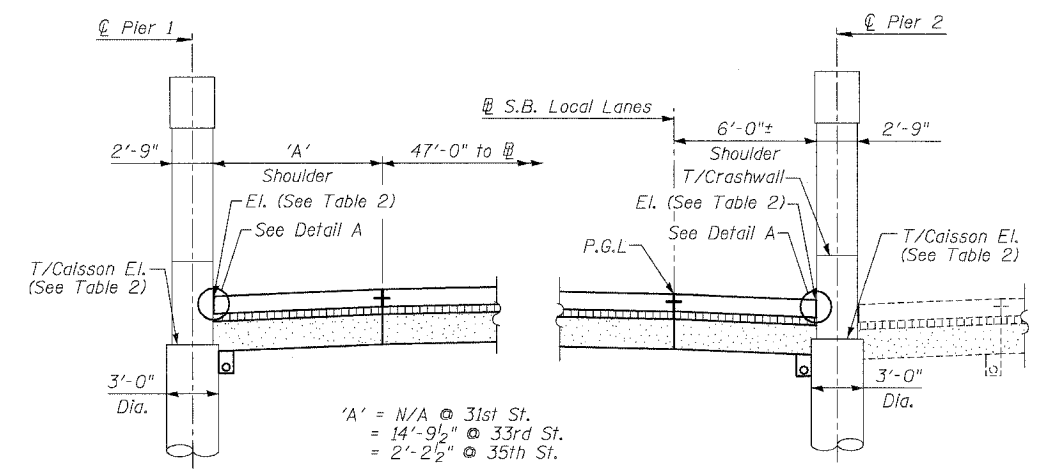
SHOULDER DETAIL AT OVERHEAD RAILROAD
Near 40th Street (S.N.'s 016-0138, 0139 & 0140)



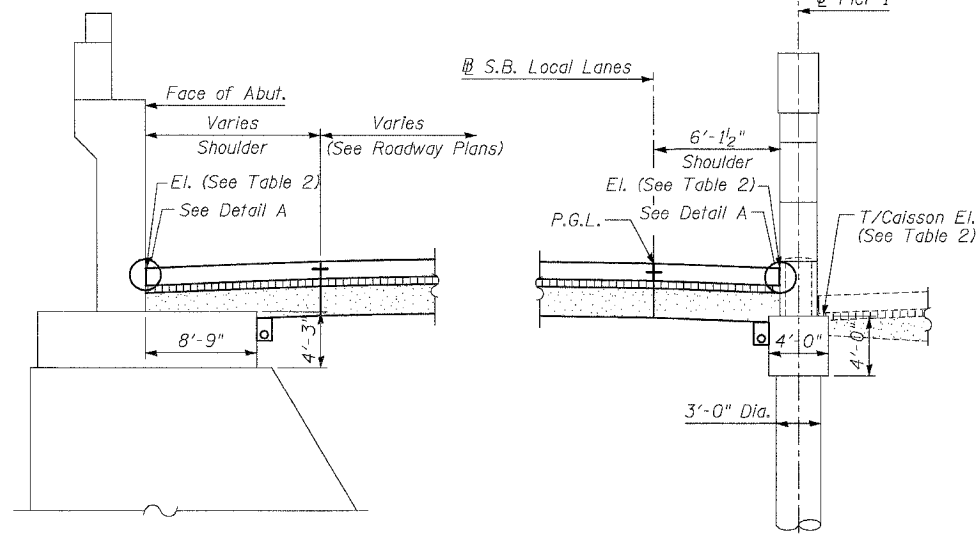
SHOULDER DETAIL AT 43rd STREET (S.N. 016-1155)
Root Street (S.N. 016-1154) Similar as noted



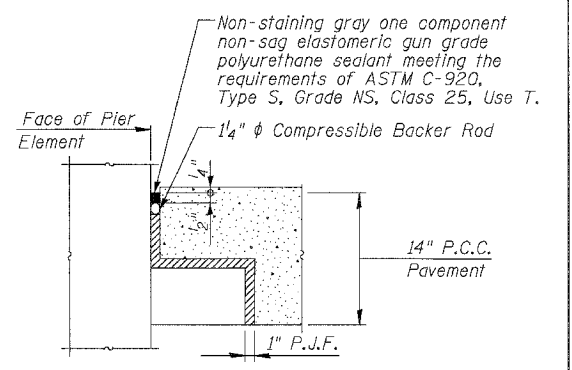
DETAIL A
Cost of P.J.F., Backer Rod and sealant included with PCC Shoulder



SHOULDER DETAIL AT OVERHEAD BRIDGES
For 31st Street (S.N. 016-1159)
33rd Street (S.N. 016-1158)
35th Street (S.N. 016-1160)



SHOULDER DETAIL AT 39th STREET (S.N. 016-0398)



DETAIL B
Cost of P.J.F., Backer Rod and sealant included with PCC Shoulder

TABLE 1

PIER	T/FOOTING EL.	T/SHOULDER EL.	
		MAX.	MIN.
3	-0.58	0.7	0.4
4	-1.13	0.6	0.2
10	-0.17	1.0	0.8
11	-1.09	0.9	0.7

TABLE 2

LOCATION	PIER	T/CAISSON EL.	T/SHOULDER EL.	
			MAX.	MIN.
31st St.	1	-5.64	N/A	N/A
	2	-6.44	-4.1	-4.8
33rd St.	1	-4.98	-4.0	-4.2
	2	-5.36	-3.4	-3.6
35th St.	1	-3.69	-1.5	-1.8
	2	-3.89	-1.5	-1.7
39th St.	W. Abut.	-8.25	-5.5	-6.1
	1	-7.30	-5.4	-5.9

TABLE 3

LOCATION	PIER	T/FOOTING EL.	T/SHOULDER EL.	
			MAX.	MIN.
Root St.	Abut.	-9.5	-4.0	-4.8
	1	-9.5	-3.9	-4.6
43rd St.	Abut.	-7.0	-4.4	-4.9
	1	-7.0	-4.4	-5.0

- LEGEND**
- Concrete Pavement
 - Stabilized Sub-base
 - Sub-base Granular material

- Notes:**
- See Typical Sections for Composition of Exist. & Prop. Pavement.
 - All views looking North.
 - Contractor shall use caution during pavement removal and excavation operations around existing overhead bridge foundations.
 - Top of Rock El. at Root Street is approx. El. -12.0
 - All dimensions at right angles to Expressway.
 - Adjust underdrain locations as required along bridge foundations. Cost included with Pipe Underdrains of the size specified.

REVISIONS

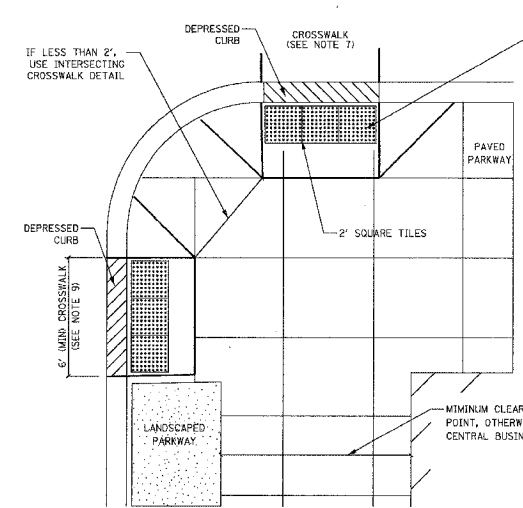
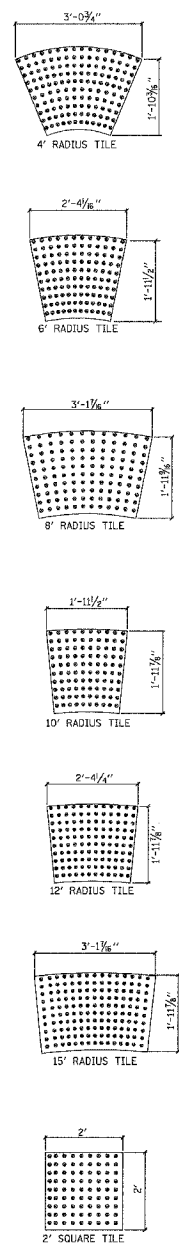
NAME	DATE
REVISED	06/20/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY DETAILS
PAVEMENT DETAILS AT
CROSS STREET BRIDGES
SCALE: NTS
DATE: JUNE 9, 2006
DRAWN BY: MTR
CHECKED BY: BLU

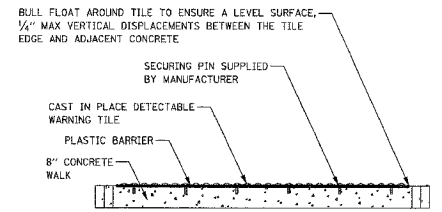
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RDT-21

6/23/2006 11:42:30 PM



1 TYPICAL SLOPE WITH FULL WALK WHERE CROSSWALKS DO NOT INTERSECT
NOT TO SCALE

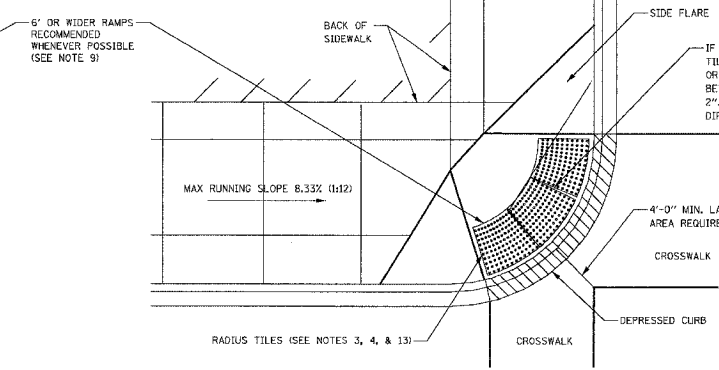


3 TYPICAL TILE PLACEMENT CROSS SECTION
NOT TO SCALE

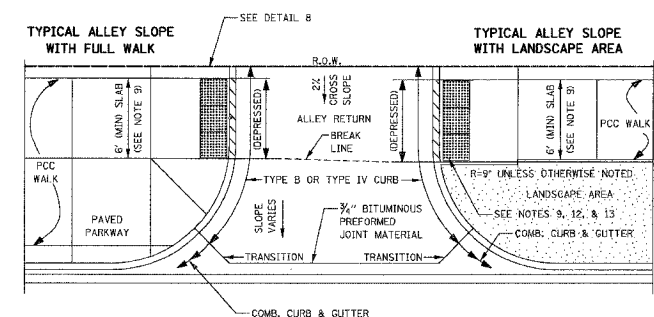
GENERAL NOTES:

- THE DETECTABLE WARNING TILES SHALL BE REINFORCED CERAMIC CEMENT (RCC) TILES WHICH MEET THE CHICAGO DEPARTMENT OF TRANSPORTATION SPECIFICATION. (AVAILABLE ON THE CITY OF CHICAGO WEBSITE) IN CENTRAL BUSINESS DISTRICT, GRANITE OR OTHER SPECIALTY PAVING MATERIALS MAY BE SUBMITTED TO THE COMMISSIONER FOR APPROVAL. (SEE NOTE 9)
- TILES MUST BE INSTALLED 1 3/4" TO 2 3/4" FROM BACK OF CURB, DEPENDING ON WIDTH OF EXPANSION JOINT.
- TILES MUST COVER FULL WIDTH OF SLOPE EXCLUDING SIDE FLARES.
- TILES MUST COVER FULL WIDTH OF SLOPE IF CROSSWALKS INTERSECT, SEE DETAIL 2.
- WHERE APPLICABLE, A COMBINATION OF DIFFERING SIZE TILES MAY BE USED ON COMPOUND AND LARGE RADII. CONTRACTOR MUST MAKE THIS DETERMINATION AND VERIFY IN FIELD AND WITH THE RESIDENT ENGINEER.
- CONTRACTOR MUST SUBMIT A WRITTEN OR SKETCHED LAYOUT OF ALL SLOPES PRIOR TO ORDERING TILES.
- CONTRACTOR IS NOT ALLOWED TO SUBSTITUTE ANY OTHER METHOD OF SATISFYING THIS CDOT REQUIREMENT.
- ALL SLOPES MUST BE CENTERED ON CROSSWALK. CROSSWALK WIDTH IS THE DISTANCE BETWEEN 2" BACK FROM FACE OF CURB AND THE PROPERTY LINE.
- TILES MUST CONTRAST WITH ADJACENT PAVEMENT. IF LIGHT COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE RED. IF A DARK COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE YELLOW. DESIGNER TO VERIFY THAT PROPER CONTRAST IS OBTAINED.

NOMINAL CURB RADIUS	TILE SIZE
13"-15"	3'-1 1/8" X 1'-11 1/8"
11"-13"	2'-4 1/4" X 1'-11 1/8"
9"-11"	1'-11 1/2" X 1'-11 1/8"
7"-9"	3'-1 1/8" X 1'-11 1/8"
5"-7"	2'-4 1/8" X 1'-11 1/2"
3"-5"	3'-0 3/4" X 1'-10 1/2"



2 TYPICAL SLOPE WITH FULL WALK WHERE CROSSWALKS INTERSECT
NOT TO SCALE



4 TYPICAL TILE PLACEMENT, ALLEY RETURN
NOT TO SCALE

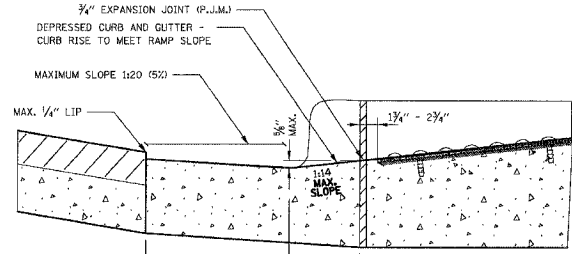
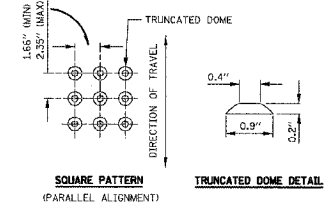
- SLOPE WIDTH MUST BE A MINIMUM OF 4'-0" AND IN INCREMENTS OF 2'-0". WHEREVER POSSIBLE THE SLOPE SHALL MATCH THE WIDTH OF THE CROSSWALK. FOR LOCATIONS INSIDE THE CENTRAL BUSINESS DISTRICT, A MINIMUM OF 6' RAMPS ARE REQUIRED. FOR LOCATIONS OUTSIDE THE CENTRAL BUSINESS DISTRICT, A MINIMUM OF 4' RAMPS ARE REQUIRED.
- PRIOR TO PLACING CONCRETE FOR DEPRESSED CURBS AND/OR SLOPES THE CONTRACTOR SHALL NOTIFY THE COMMISSIONER TO RECEIVE LAYOUT APPROVAL. A PRE-MANUFACTURED TILE, APPROVED BY THE COMMISSIONER, MUST BE USED TO ACHIEVE THE DETECTABLE WARNING SURFACE.
- THE MAXIMUM ALLOWABLE SLOPE IS 1:4. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED.
- IF SIDEWALK AND ALLEY ARE AT THE SAME GRADE, RAMP IS NOT REQUIRED BUT DETECTABLE WARNING TILES ARE STILL REQUIRED.
- DETECTABLE WARNING DOMES MUST BE ONLY AT THE BOTTOM 2" OF ALL SLOPES AND MUST CONTRAST IN COLOR WITH SLOPE AND SIDE FLARES.

REQUIRED MINIMUM FLARE WIDTHS FOR VARIOUS CURB HEIGHTS		
CURB HEIGHT (INCHES)	FLARE WIDTH (1:10) (INCHES)	FLARE WIDTH (1:12) (INCHES)
3	30	36
4	40	48
5	50	60
6	60	72
7	70	84
8	80	96
9	90	108

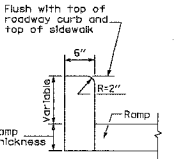
SUGGESTED TILE SUPPLIERS:

BINDEN CORPORATION
P.O. BOX 3513
OAK BROOK, IL 60523
630-734-0277
ATTN: THOMAS LALLY, PRESIDENT

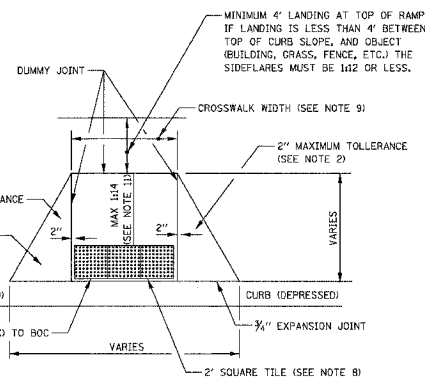
TRAFFIC SIGNAL CORPORATION
780 W. BELDEN AVE. SUITE D
ADDISON, IL 60101
630-543-1300
ATTN: MITCH BRIGHT, SALES REPRESENTATIVE



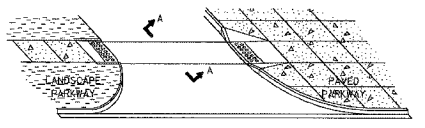
7 DEPRESSED CURB DETAIL
NOT TO SCALE



8 DETAIL OF SIDE CURB, ONLY AT ALLEYS AND LANDSCAPED PARKWAYS
NOT TO SCALE
(Side curb may be constructed flush with top of sidewalk)



5 TILE PLACEMENT DETAIL, WITH FLARES
NOT TO SCALE



9 SLOPES AT ALLEYS OR ENTRANCES
NOT TO SCALE

REVISIONS	DATE
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
ROADWAY / CITY STANDARD DETAILS
CITY OF CHICAGO
TYPICAL CURB SLOPE DETAILS
SCALE: NTS
DATE: 06/09/06

DRAWN BY: CDOT
CHECKED BY: CDOT

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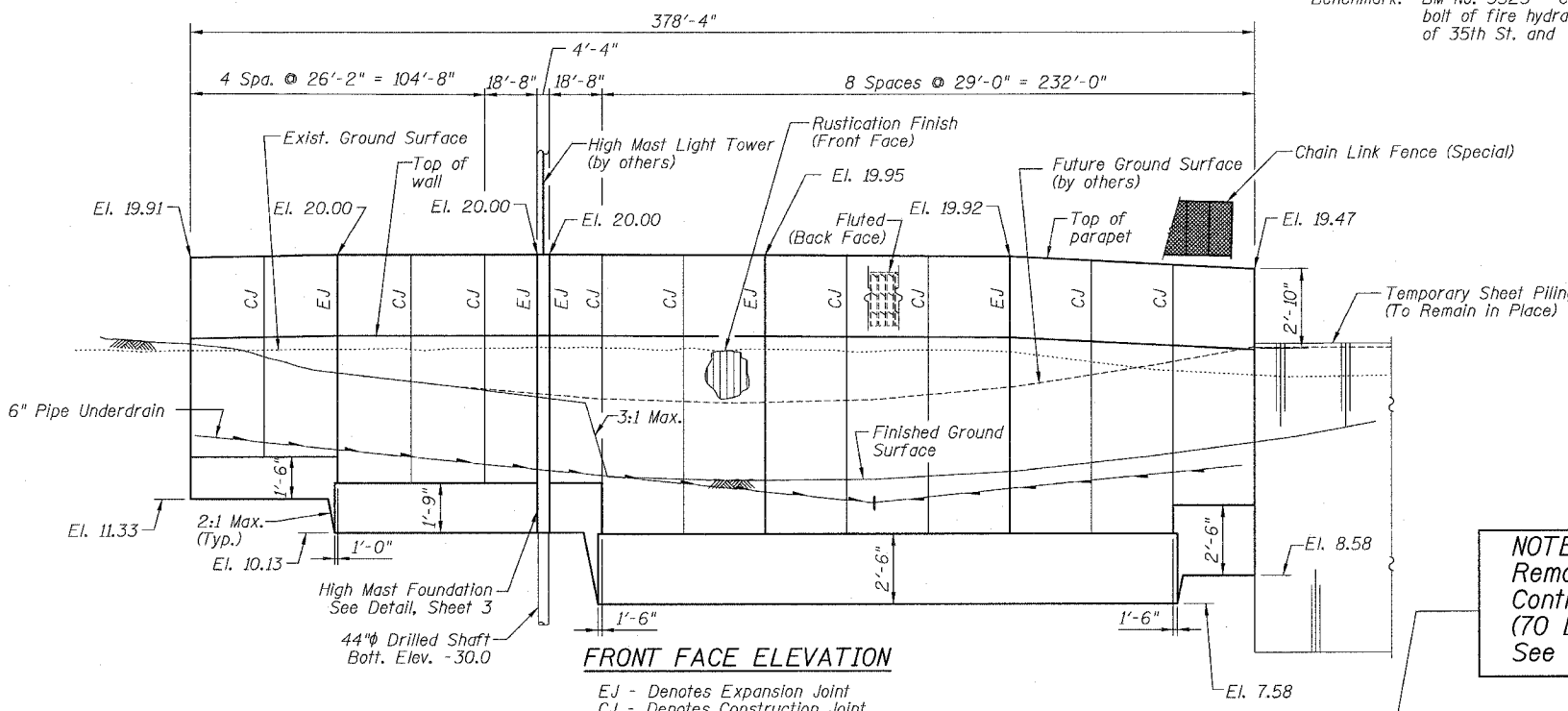
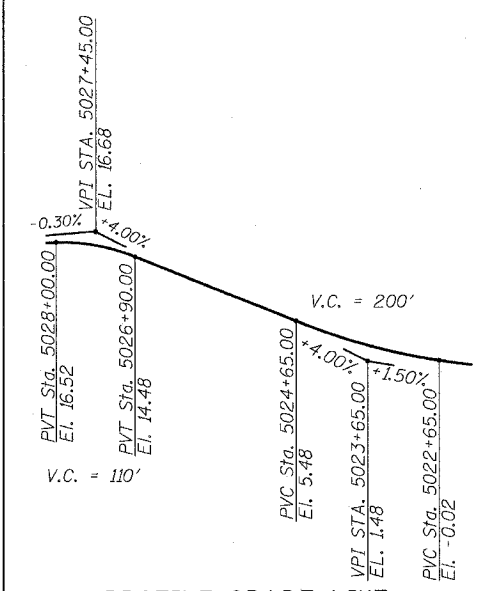
6/27/2006 12:01:11 PM

Existing Structure: The existing wall was built in 1962 as part of Section S-2324.6-1P and designated Wall "D". It consists of cast-in-place cantilever wall carried by a grade beam supported on drilled shafts. The exist. wall is 480'-0" long, has a 3/8" front face batter and has 30" high chain link fence on top.

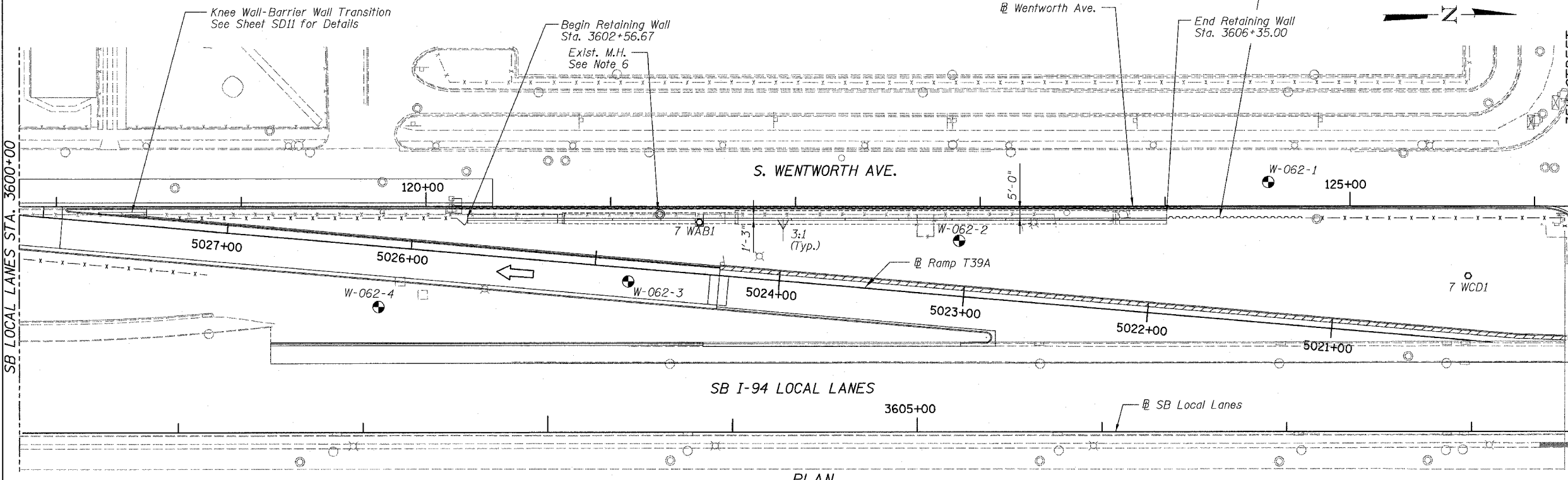
All elevations are based on the Chicago City Datum (C.C.D.)

Benchmark: BM No. 3525 Cross cut on Northwest flange bolt of fire hydrant at the Northwest corner of 35th St. and Wentworth Ave. El. 16.93.

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	377
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*I2021-922 PT2 ETC 2324.6-1P1 R-11		

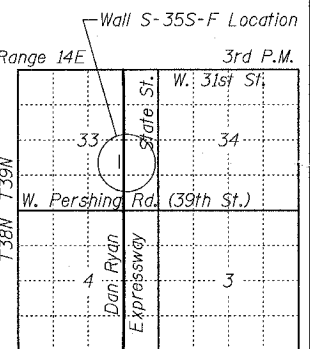


NOTE A:
Remove Sheet Piling installed by Contract 62585, approx. 980 Sq. Ft. (70 Lin. Ft., 14 Ft. Lg., CZ95 Piling) See Roadway Plans



LEGEND

- Soil Boring Location
- WAB - High Mast Lighting Foundation and Tower (See Notes)
- Removal of Exist. Structures
- Sheet Piling



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FOR INFORMATION ONLY
EXCEPT NOTE A

DESIGN SPECIFICATIONS

2002 AASHTO
2001 AASHTO Std. Specs. for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING

Equivalent Fluid Pressure = 40 pcf (Drained Condition)
Traffic Surcharge = 250 psf

REVISIONS	
NAME	DATE
REVIS	06/23/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-35S-F

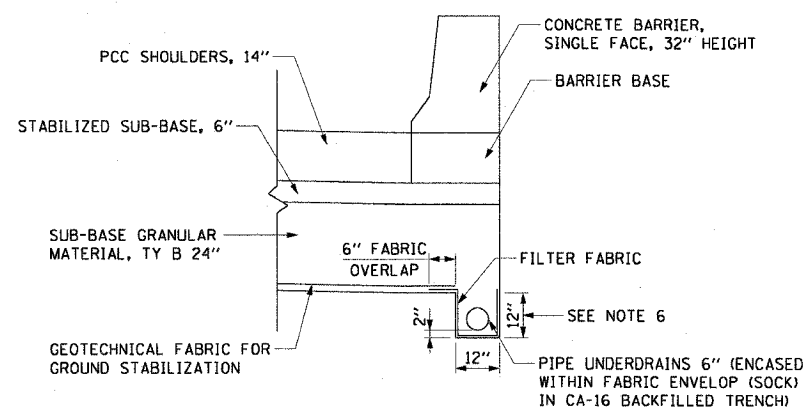
SCALE: NTS
DATE: JUNE 9, 2006
DRAWN BY: SRB
CHECKED BY: BLU

RDT 23

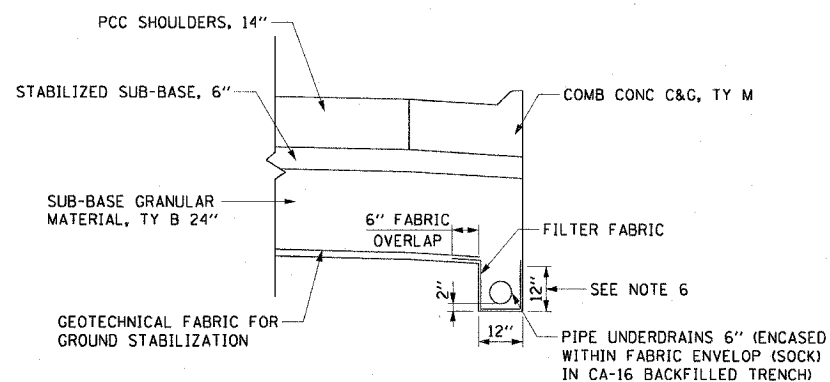
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F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	588	378
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1P) R-11		

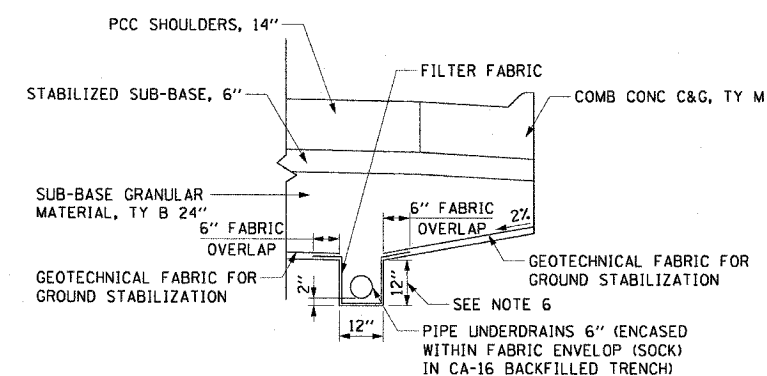
PIPER UNDERDRAINS 6"
N.T.S.



PIPE UNDERDRAINS 6"
LOCATED UNDER SINGLE FACE BARRIER WALL



PIPE UNDERDRAINS 6"
LOCATED UNDER COMB CONC C&G

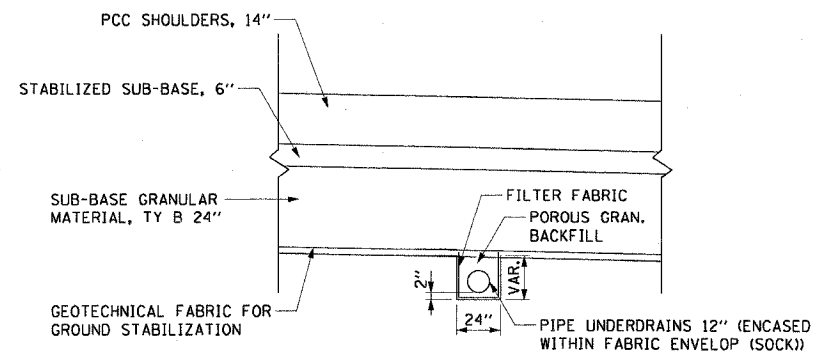


PIPE UNDERDRAINS 6"
NOT LOCATED AT BACK OF CURB OR BARRIER WALL

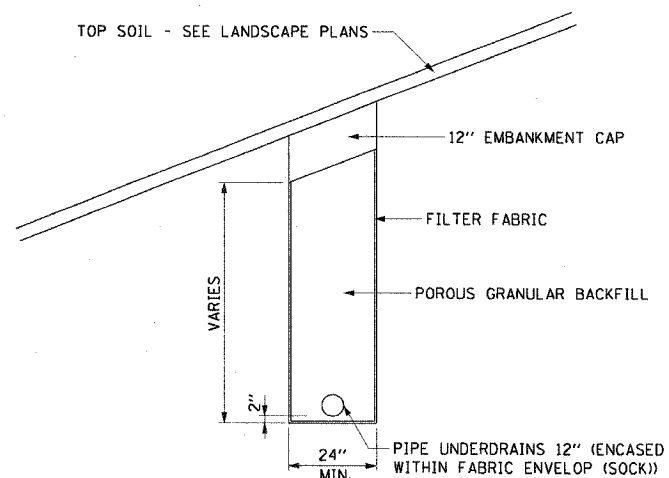
NOTES:

1. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED SUCH THAT IT EXTENDS TO THE EDGE OF THE TRENCH AND OVERLAPS THE FILTER FABRIC BY A MINIMUM OF 6". AT NO TIME SHALL THE GEOTECHNICAL FABRIC FOR GROUND STABILIZATION BE OVER OR COVER THE UNDERDRAIN TRENCH.
2. NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED ON THE TRENCH UNTIL A MINIMUM OF 12" OF COMPACTED SUB-BASE IS PROVIDED.
3. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH. THE TOP OF THE TRENCH MUST NOT BE COVERED WITH ANY FABRIC.
4. FILTER FABRIC, FABRIC ENVELOPE, AND CA-16 AGGREGATE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
5. CONTRACTOR SHALL FLUSH PIPE UNDERDRAIN WITH WATER TO INSURE UNDERDRAIN IS FUNCTIONING PROPERLY PRIOR TO THE PLACEMENT OF STABILIZED SUB-BASE. PRIOR TO COMMENCING THIS WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH HIS APPROACH AND METHODS FOR COMPLETING THIS WORK, FOR THE ENGINEER'S REVIEW AND APPROVAL. THE COST OF FLUSHING THE PIPE IS INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
6. WHERE PIPE UNDERDRAIN CONFLICTS WITH EXISTING UTILITY CROSSINGS, DEPTH WILL VARY AS NEEDED TO ACHIEVE FLOW DIRECTIONS SHOWN ON DRAINAGE PLANS. MINIMUM DEPTH OF PIPE UNDERDRAIN IS 12" BELOW SUBGRADE. COST OF ADDITIONAL PIPE UNDERDRAIN DEPTH SHALL BE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
7. SEE ROADWAY DETAIL SHEETS RDT21A & RDT21B FOR PIPE UNDERDRAIN DETAILS AT CROSS STREET BRIDGES.

PIPER UNDERDRAINS 12"
N.T.S.



PIPE UNDERDRAINS 12"
LOCATED UNDER PROPOSED PAVEMENT



PIPE UNDERDRAINS 12"
LOCATED OUTSIDE PROPOSED PAVEMENT

NOTES:

1. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH.
2. FILTER FABRIC AND FABRIC ENVELOPE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 12".

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

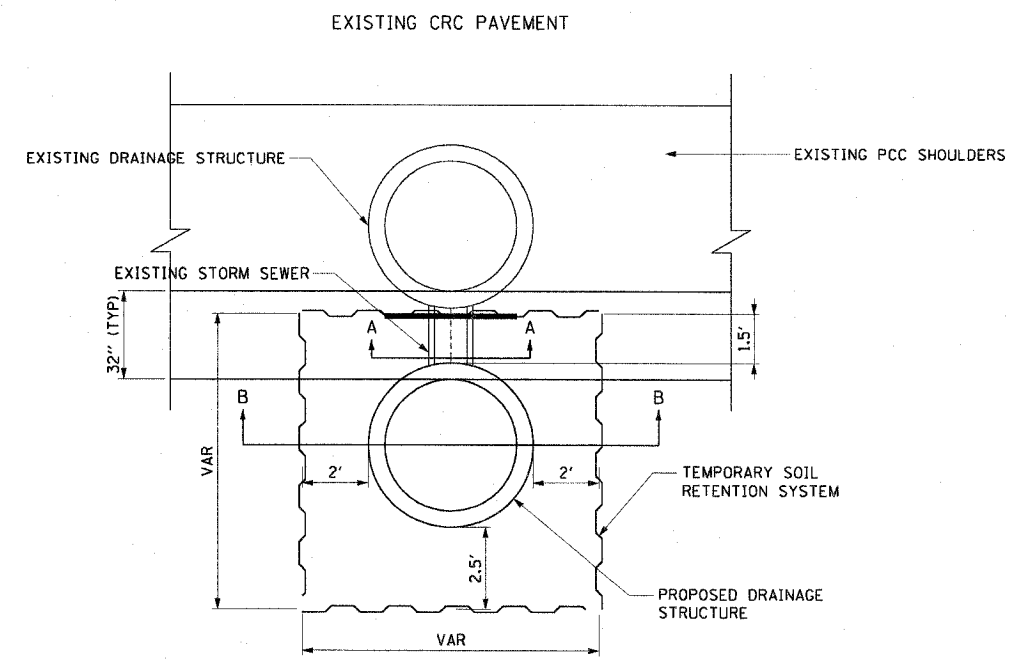
DRAINAGE DETAILS
PIPE UNDERDRAINS

SCALE: NONE
DATE: June 9, 2006
DRAWN BY: RMG
CHECKED BY: XXX

DDT-1

6/7/2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	588	379
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62303	* (2021-922 PT2 ETC 2324.6-1P) R-11			



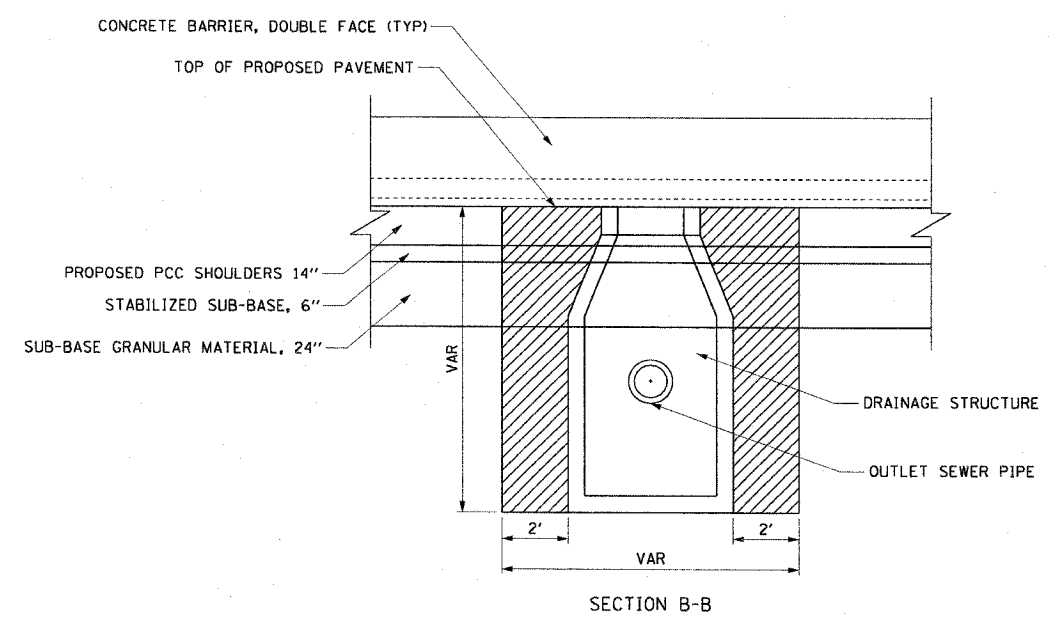
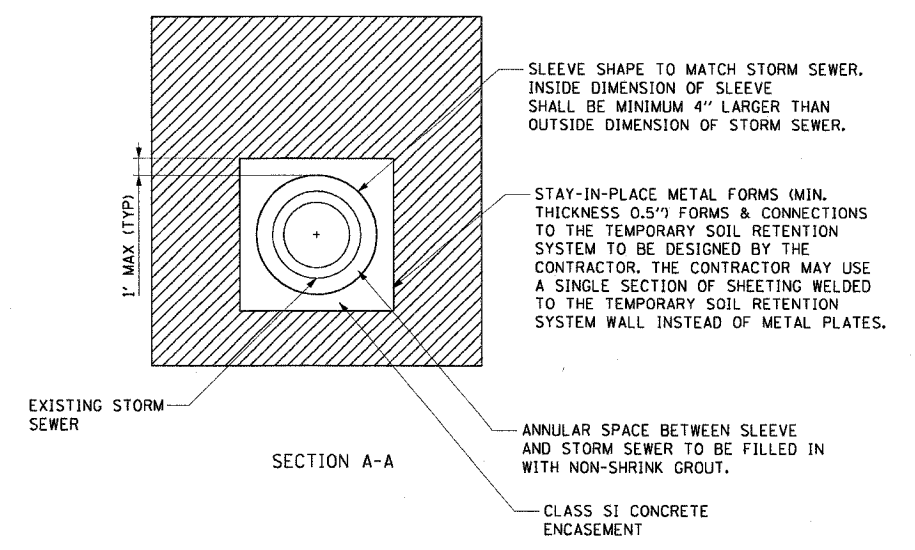
NOTES

1. STORM SEWER PENETRATIONS THROUGH THE TEMPORARY SOIL RETENTION SYSTEM WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST FOR THE TEMPORARY SOIL RETENTION SYSTEM.

LEGEND

TEMPORARY SOIL RETENTION SYSTEM

PLAN VIEW



SECTION B-B

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**DRAINAGE DETAILS
 TEMPORARY SOIL RETENTION SYSTEM**

SCALE: NONE
 DATE: June 9, 2006

DRAWN BY: RMG
 CHECKED BY: XXX



DDT-2

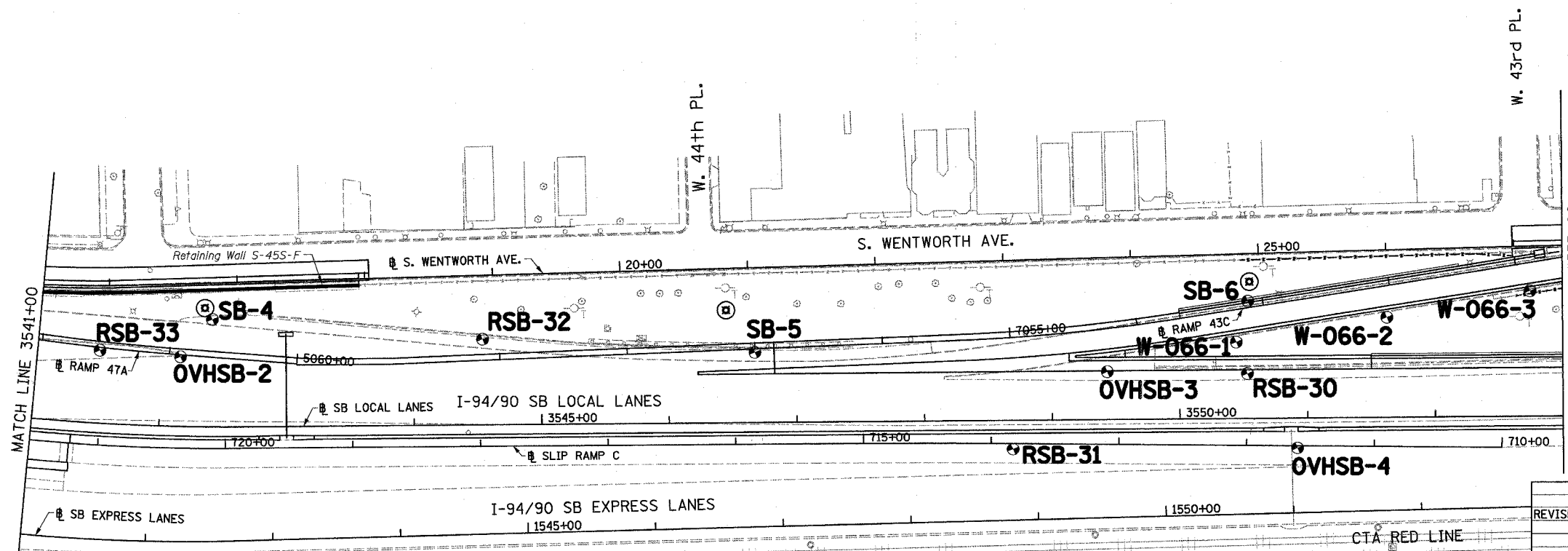
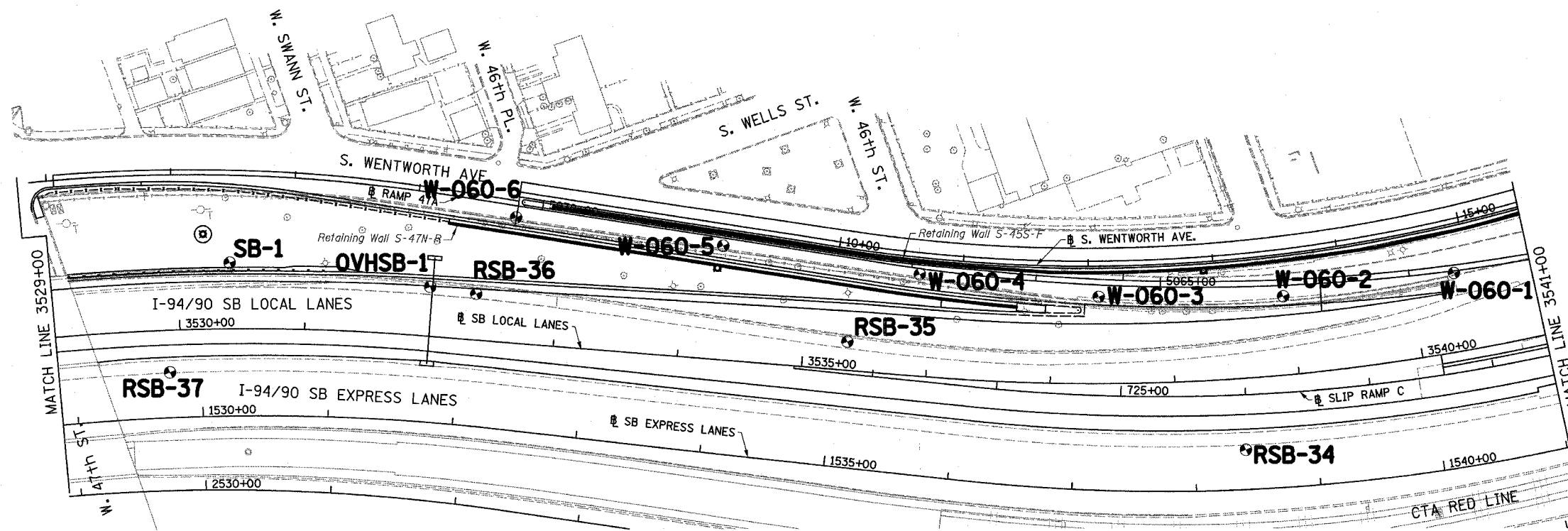
6/7/2006 12:28:52 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	380
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 * (2021-922 PT2 ETC 2324.6-1P) R-11				



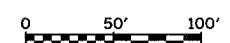
NOTES:

1. FOR RETAINING WALL SOIL BORINGS SEE ASSOCIATED RETAINING WALL PLANS
2. FOR SIGN STRUCTURE BORINGS SEE SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS



LEGEND:

SB	HIGH MAST LIGHT TOWER
RSB	ROADWAY
OVHSB	OVERHEAD SIGN STRUCTURE
W	RETAINING WALLS



BP-01

REVISIONS	
NAME	DATE
REVISED	6/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 SOIL BORING PLAN

SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

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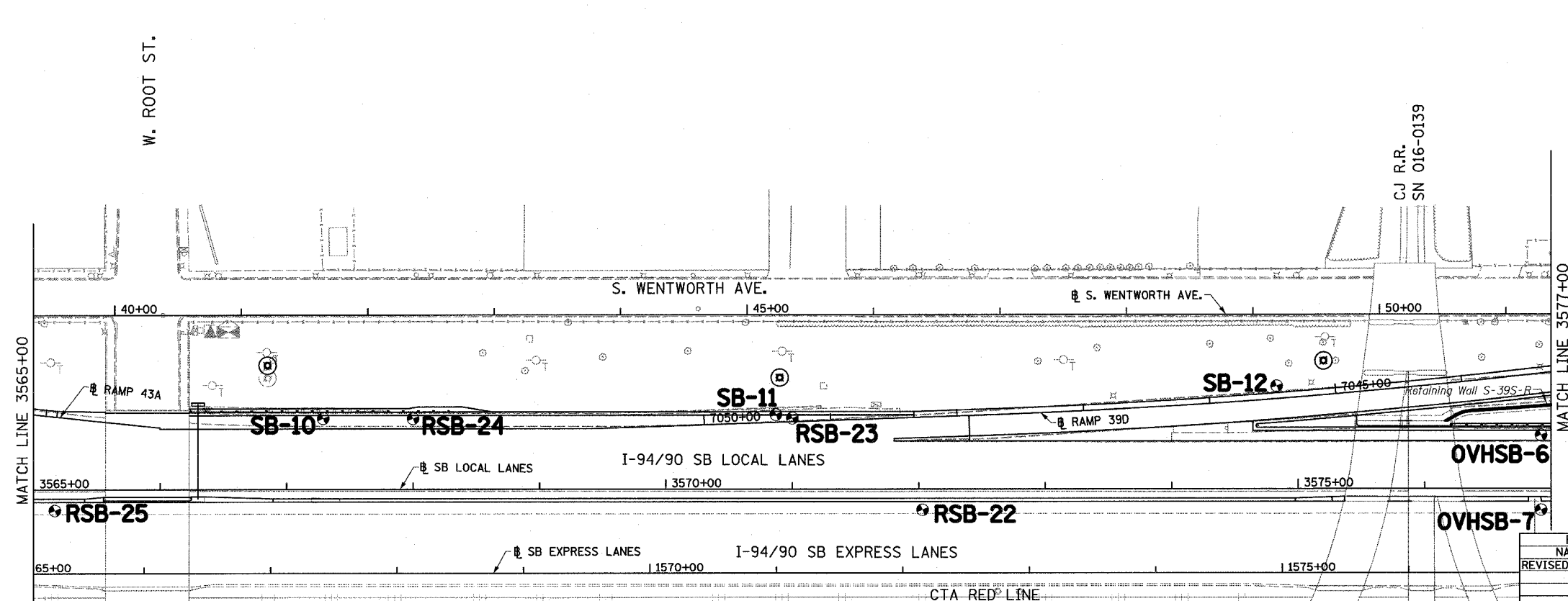
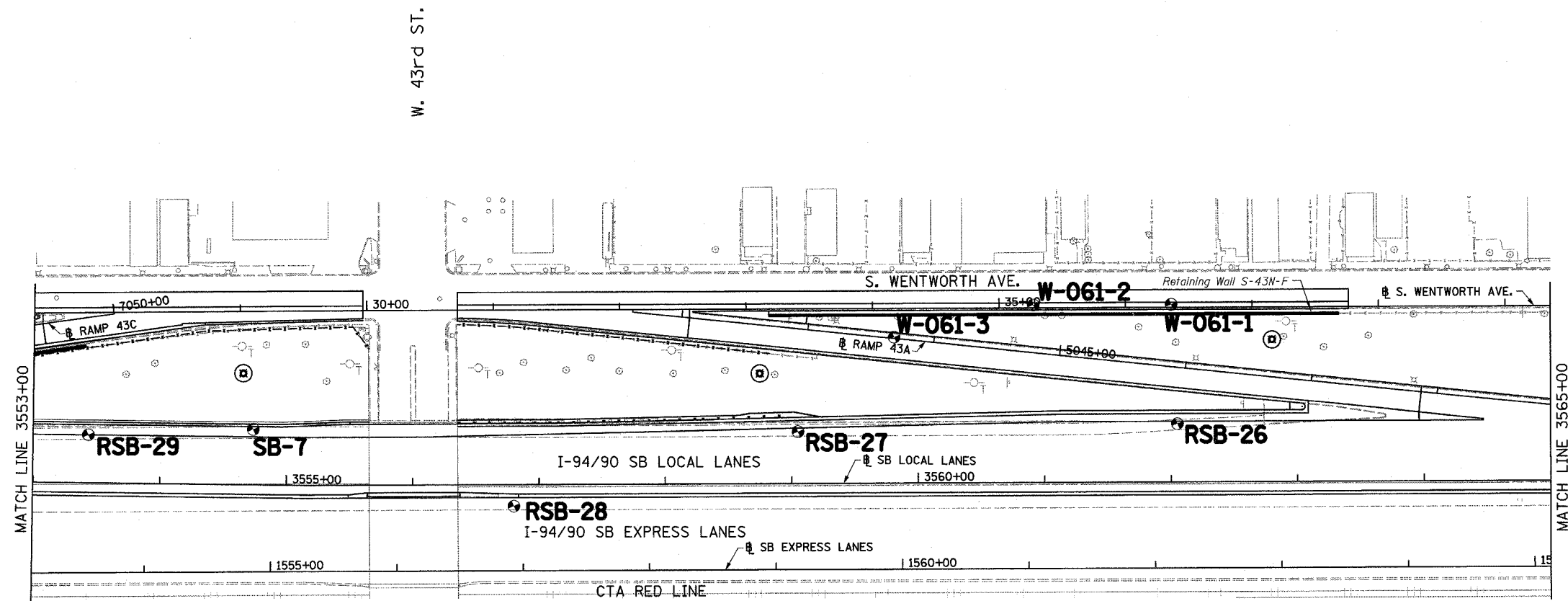
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	381
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



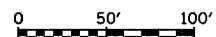
NOTES:

- FOR RETAINING WALL SOIL BORINGS SEE ASSOCIATED RETAINING WALL PLANS
- FOR SIGN STRUCTURE BORINGS SEE SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS



LEGEND:

SB	HIGH MAST LIGHT TOWER
RSB	ROADWAY
OVHSB	OVERHEAD SIGN STRUCTURE
W	RETAINING WALLS



REVISIONS	
NAME	DATE
REVISED	6/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 SOIL BORING PLAN

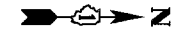
SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

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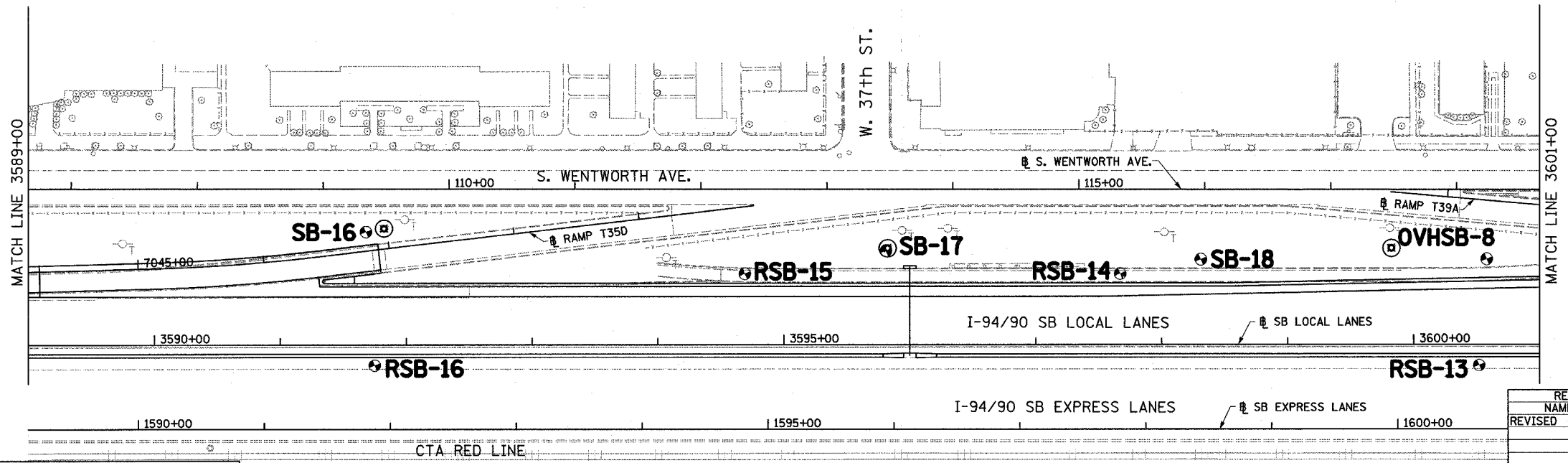
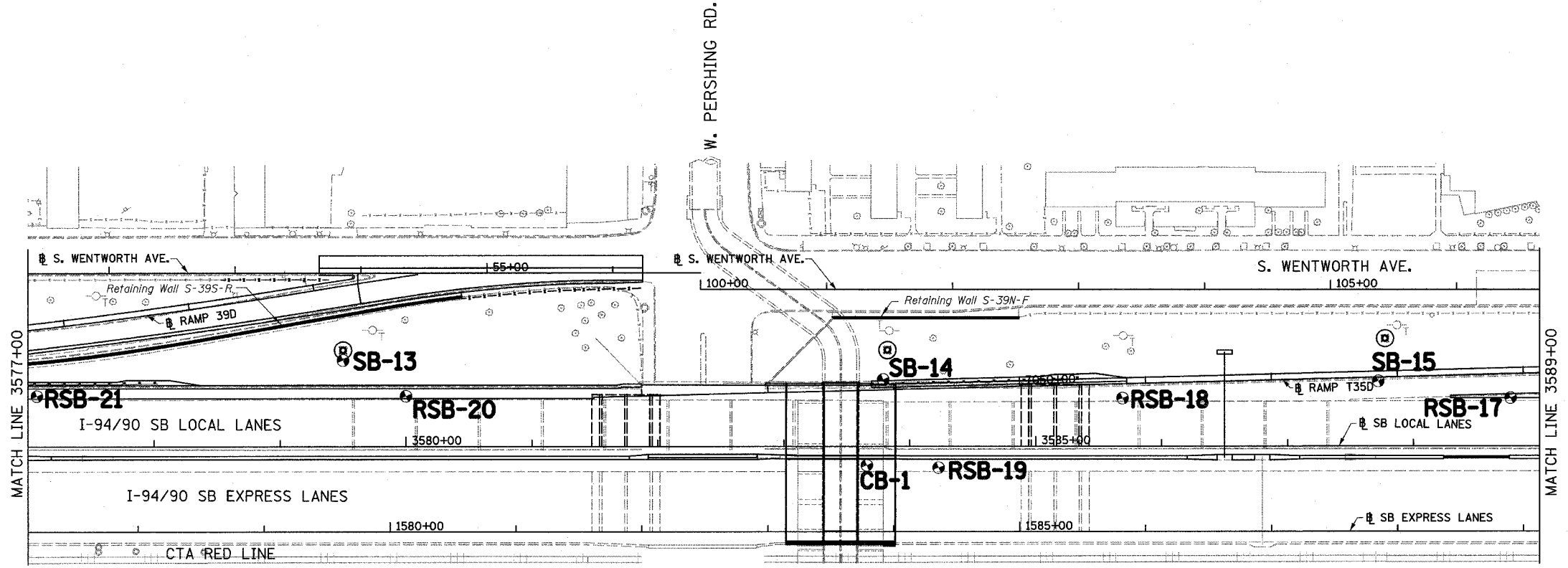


44-9413 7/06 6/27/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	382
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

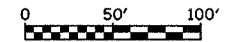


NOTES:
 1. SEE CULVERT PLANS FOR BORING LOG FOR CB-1



LEGEND:

SB	HIGH MAST LIGHT TOWER
RSB	ROADWAY
OVHSB	OVERHEAD SIGN STRUCTURE
CB	CULVERT



BP-03

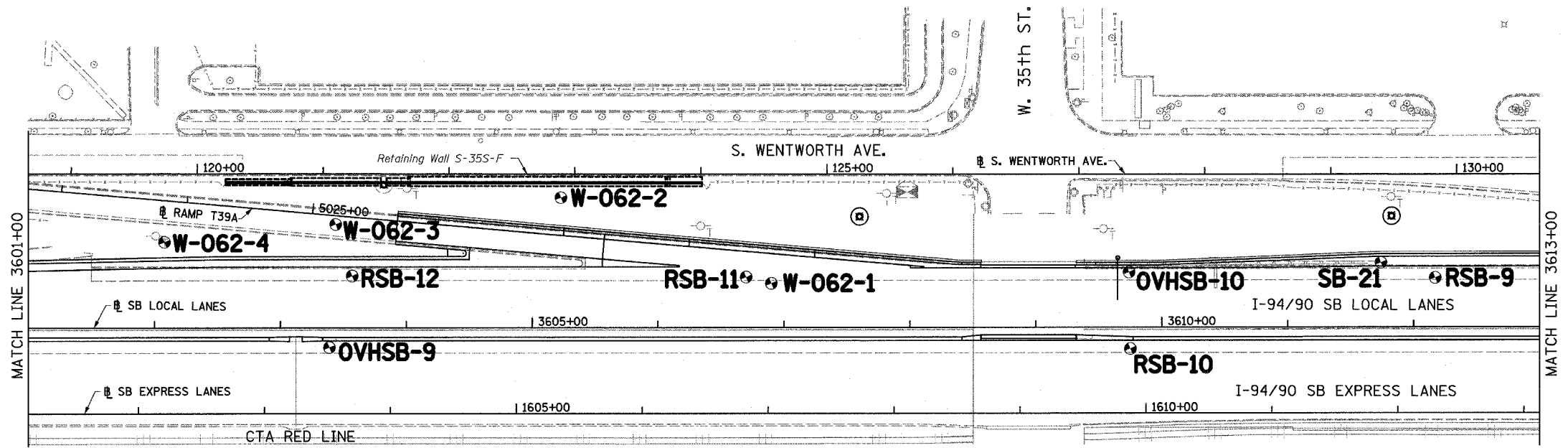
REVISIONS	
NAME	DATE
REVISED	6/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 SOIL BORING PLAN
 SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

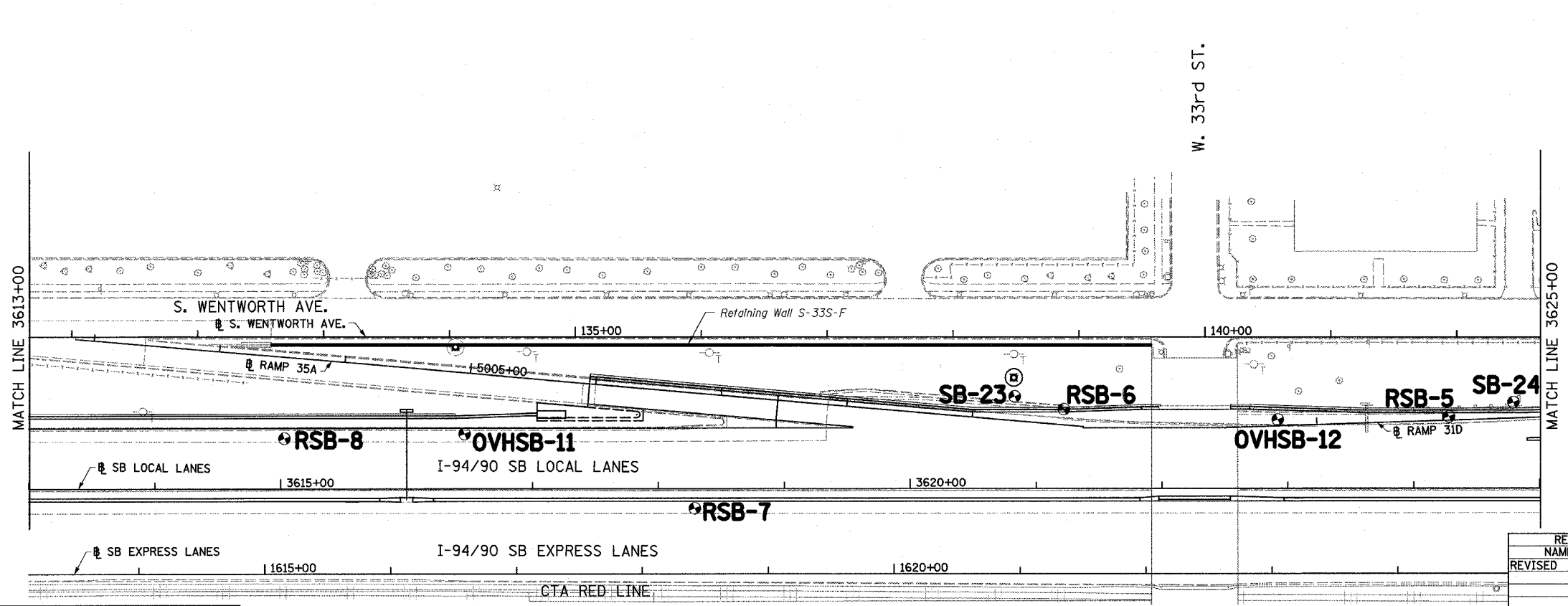
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6/27/2006 4:48:45 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	383
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

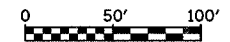


- NOTES:
- FOR RETAINING WALL SOIL BORINGS SEE ASSOCIATED RETAINING WALL PLANS
 - FOR SIGN STRUCTURE BORINGS SEE SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS



LEGEND:

SB	HIGH MAST LIGHT TOWER
RSB	ROADWAY
OVHSB	OVERHEAD SIGN STRUCTURE



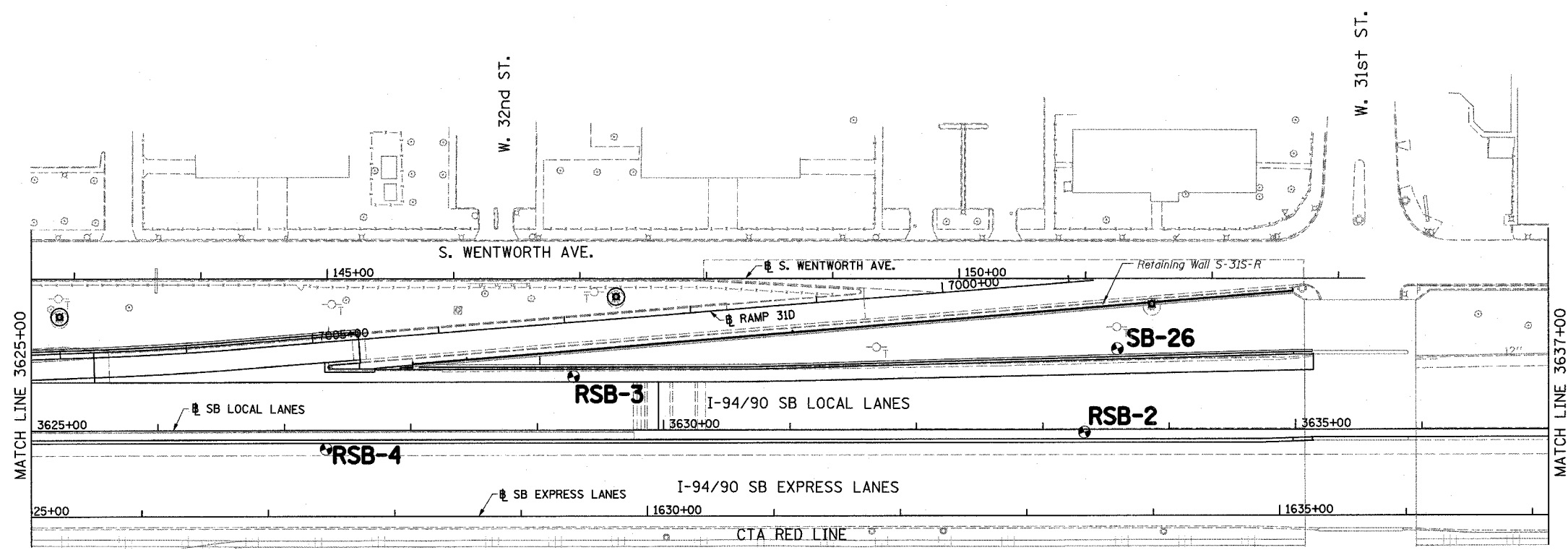
REVISIONS	
NAME	DATE
REVISED	6/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
SOIL BORING PLAN
 SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

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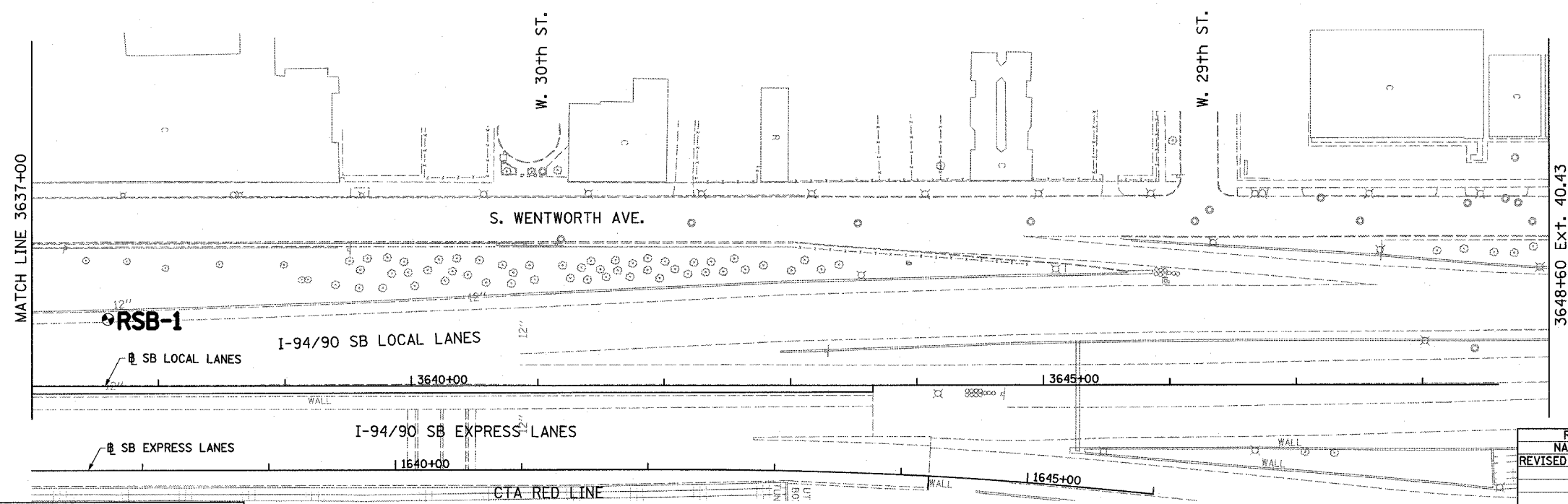
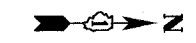
48583 PM
 6/27/2006
 48583 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	384
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



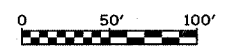
NOTES:

1. FOR RETAINING WALL SOIL BORINGS SEE ASSOCIATED RETAINING WALL PLANS
2. FOR SIGN STRUCTURE BORINGS SEE SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS



LEGEND:

SB	HIGH MAST LIGHT TOWER
RSB	ROADWAY



BP-05

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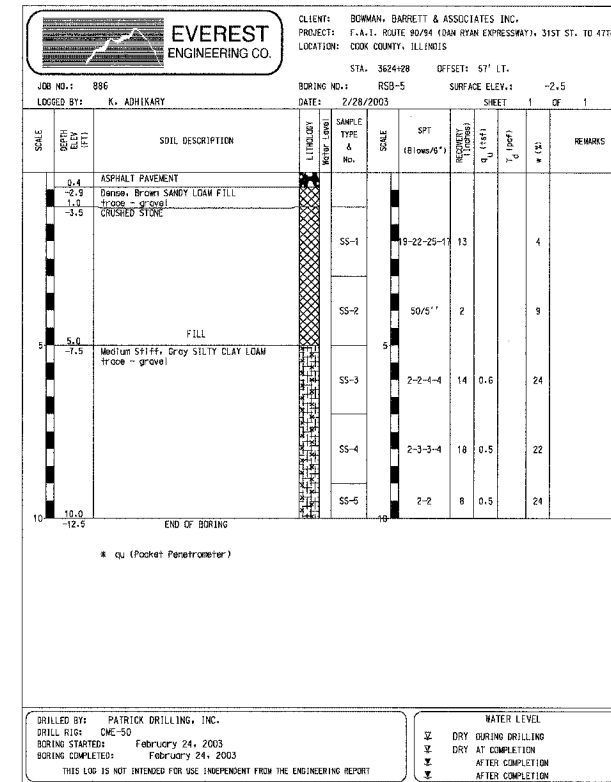
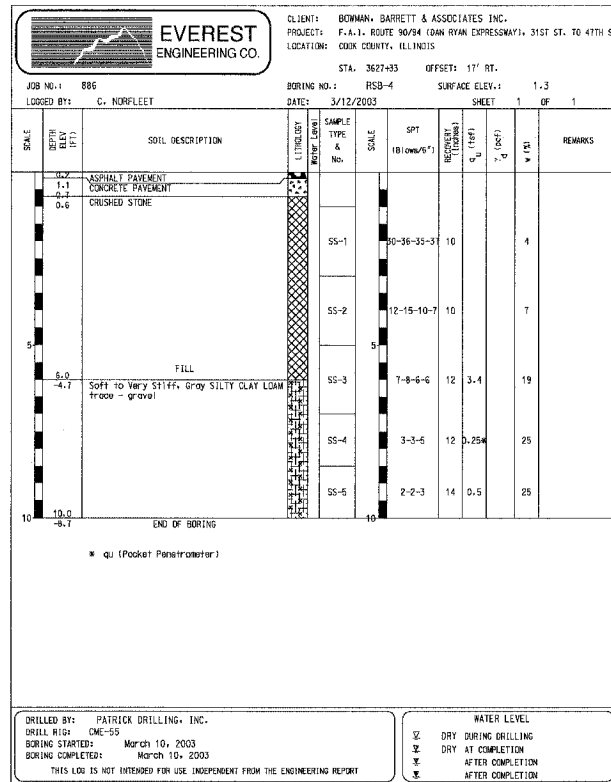
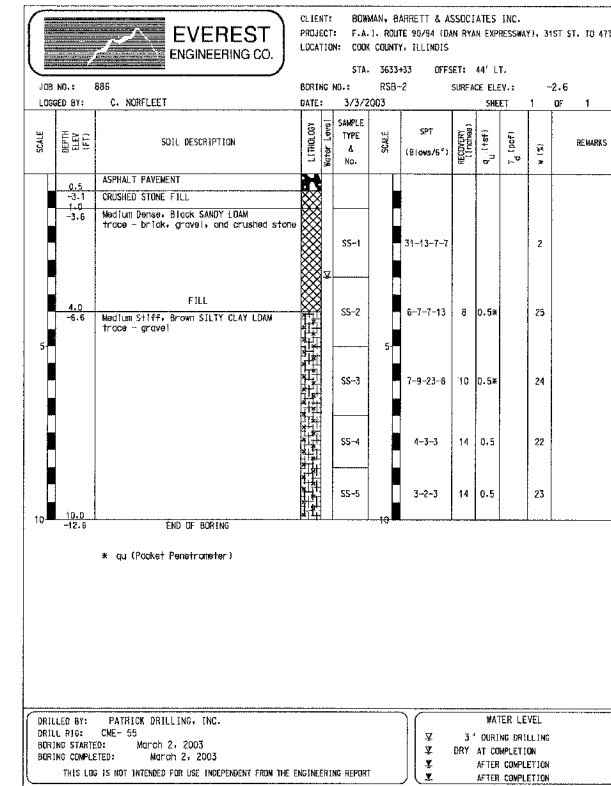
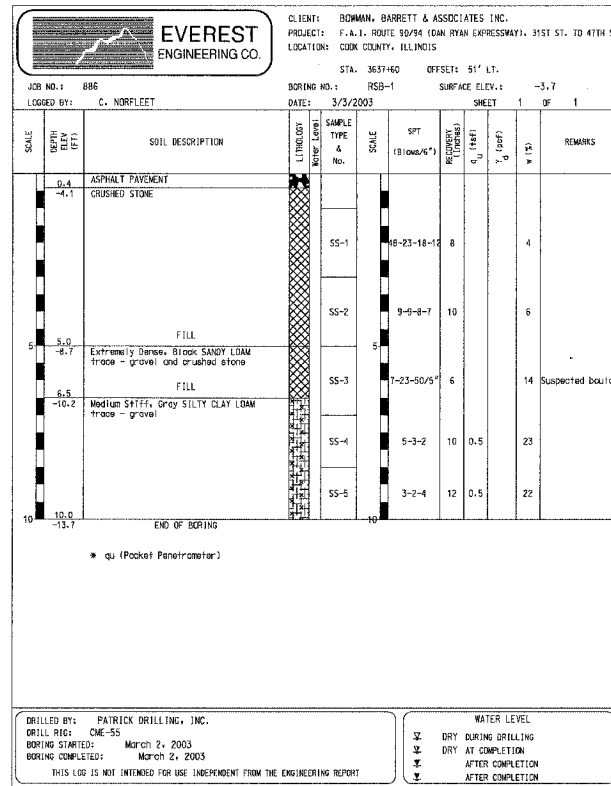
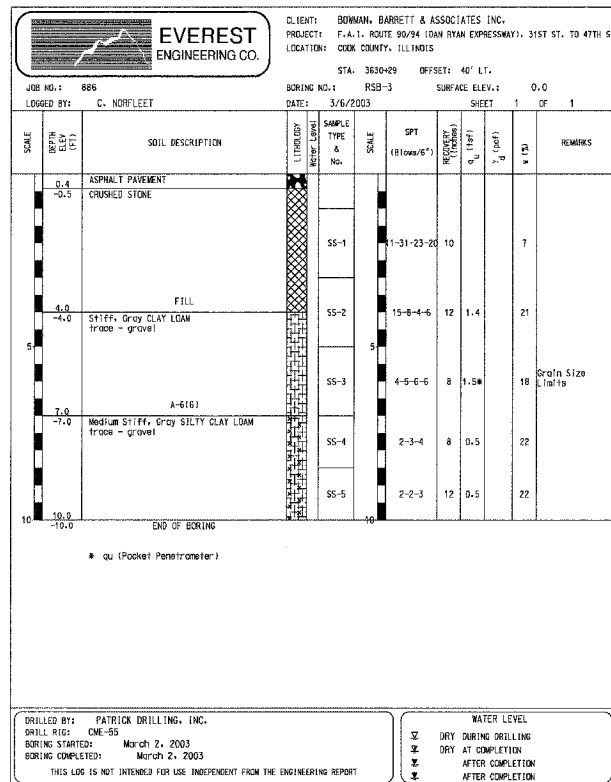
REVISIONS	
NAME	DATE
REVISED	6/27/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
SOIL BORING PLAN
SCALE: 1"= 50'
DATE: 06/09/06
DRAWN BY: LAM
CHECKED BY: BLU

6/27/2006 4:35 PM

TOP-OF-ROCK ELEVATIONS ENCOUNTERED DURING CONSTRUCTION OF CONTRACTS 62300 & 62301

NORTHBOUND		
STATION	OFFSET	ELEVATION
2530+00	SEE NOTE 3	-22.9
2529+60	SEE NOTE 3	-24.7
2528+00	SEE NOTE 3	-12.0
2527+50	SEE NOTE 3	-16.7
2527+00	SEE NOTE 3	-16.4
2526+50	SEE NOTE 3	-15.6
2526+00	SEE NOTE 3	-15.4
2525+50	SEE NOTE 3	-12.9
2525+00	SEE NOTE 3	-12.3
2524+50	SEE NOTE 3	-12.4
2568+40	SEE NOTE 3	-7.2
2569+25	SEE NOTE 3	-6.5
2569+90	SEE NOTE 3	-5.4
2570+50	SEE NOTE 3	-5.0
2571+00	SEE NOTE 3	-18.2
2571+70	SEE NOTE 3	-19.2
SOUTHBOUND		
STATION	OFFSET	ELEVATION
1530+00	SEE NOTE 3	-23.5
1528+00	SEE NOTE 3	-11.2
1527+00	SEE NOTE 3	-11.2
1526+70	SEE NOTE 3	-14.8
1525+40	SEE NOTE 3	-10.3
1524+50	SEE NOTE 3	-7.9
1523+95	SEE NOTE 3	-6.8
1560+97	SEE NOTE 4	-16.3
1563+21	SEE NOTE 4	-12.5
1565+05	SEE NOTE 4	-9.0
1568+70	SEE NOTE 3	-6.8
1569+40	SEE NOTE 3	-5.8
1570+60	SEE NOTE 3	-7.4
1571+20	SEE NOTE 3	-17.5
1571+70	SEE NOTE 3	-17.5



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	385
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
62303		* (2021-922 PT2 ETC 2324.6-1P) R-11		

- NOTES:
- BEDROCK WAS ENCOUNTERED AT THE ABOVE LOCATIONS DURING CONSTRUCTION OF CONTRACTS 62300 AND 62301.
 - BEDROCK ELEVATIONS ARE ESTIMATED BASED ON BORING PERFORMED BY CONTRACT 62300 AND 62301.
 - BORING LOCATED IN EXPRESS LANE SHOULDER ADJACENT TO CTA.
 - BORINGS LOCATED IN WESTERN SHOULDER OF SB EXPRESS LANES.

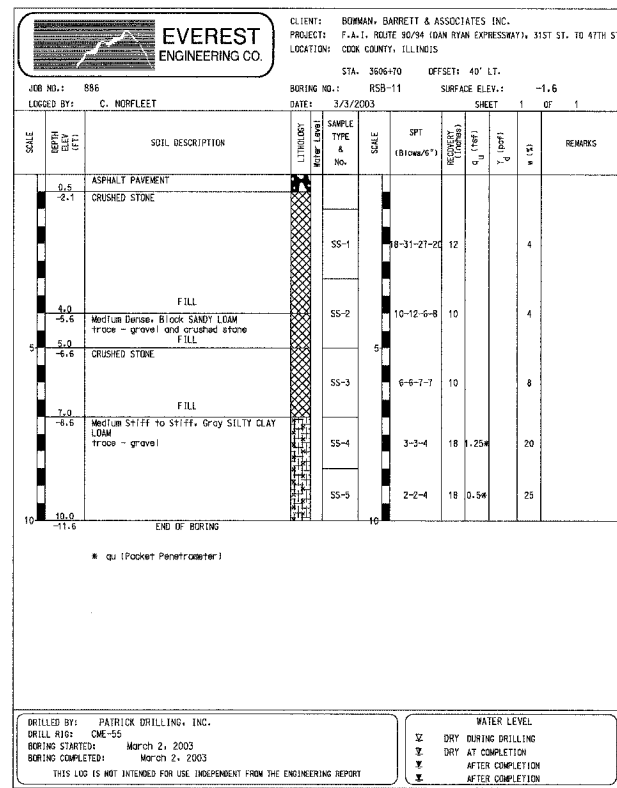
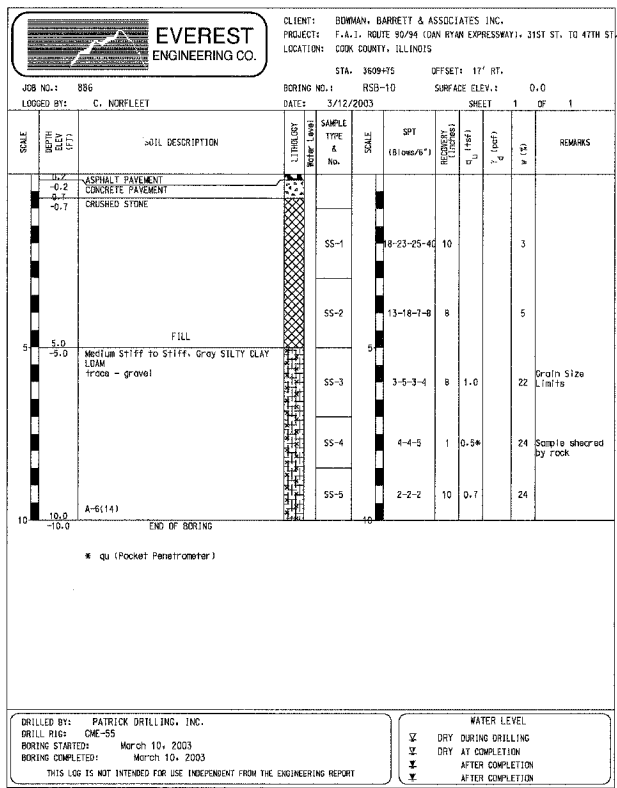
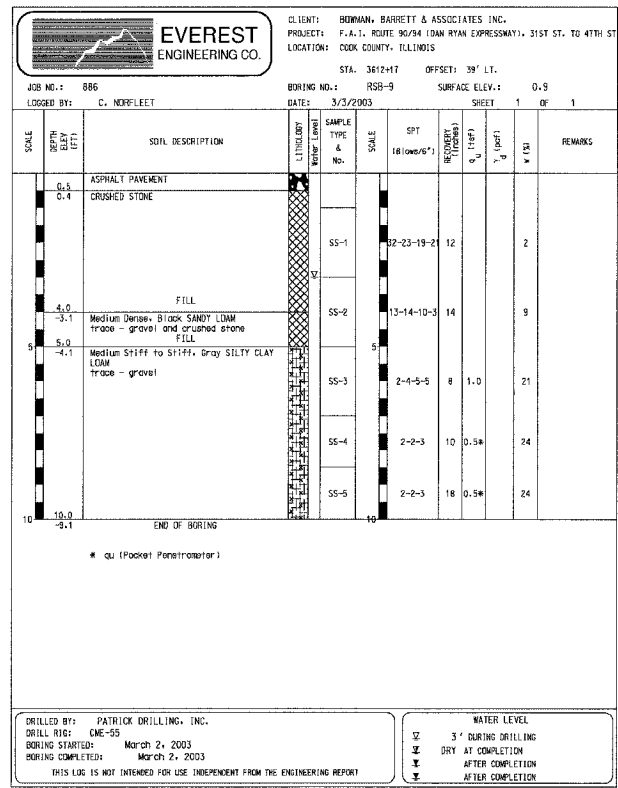
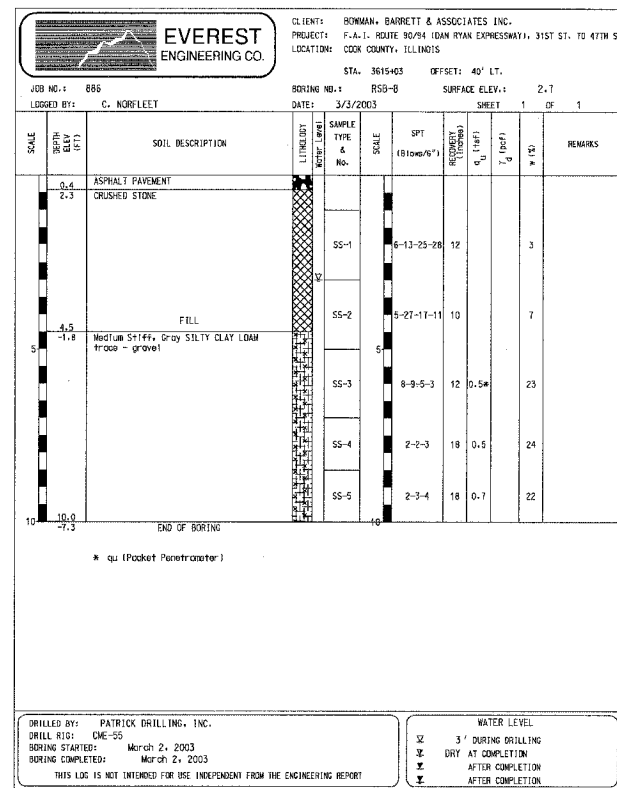
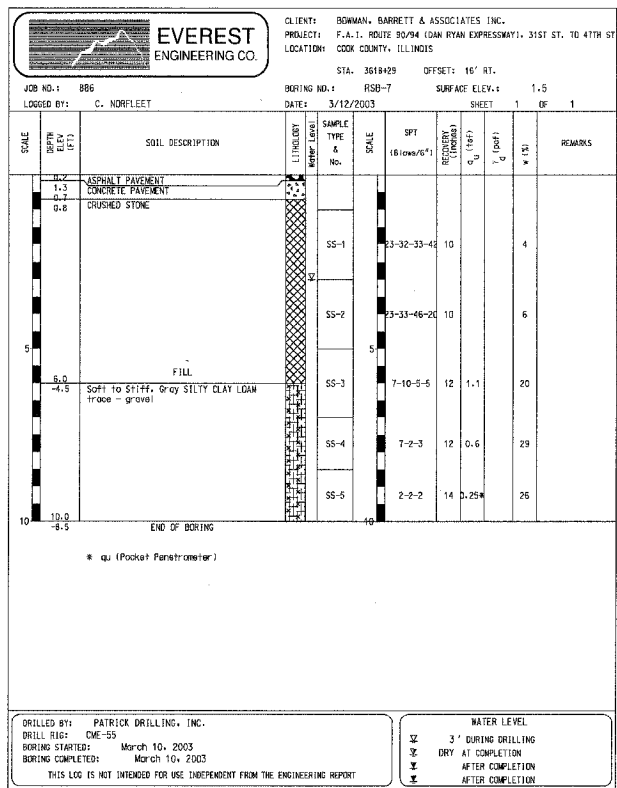
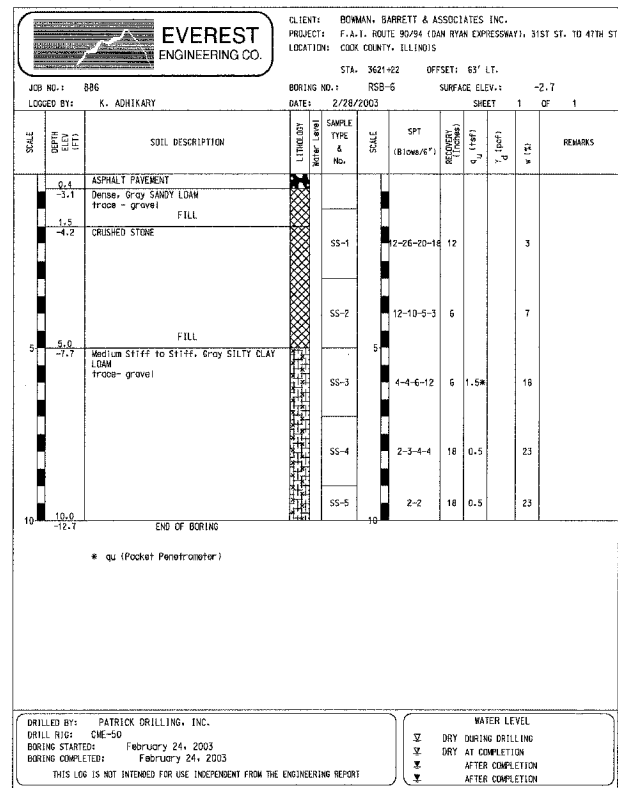
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 SOIL BORING LOGS

SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

BL-01
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 6/8/2006



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	386
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

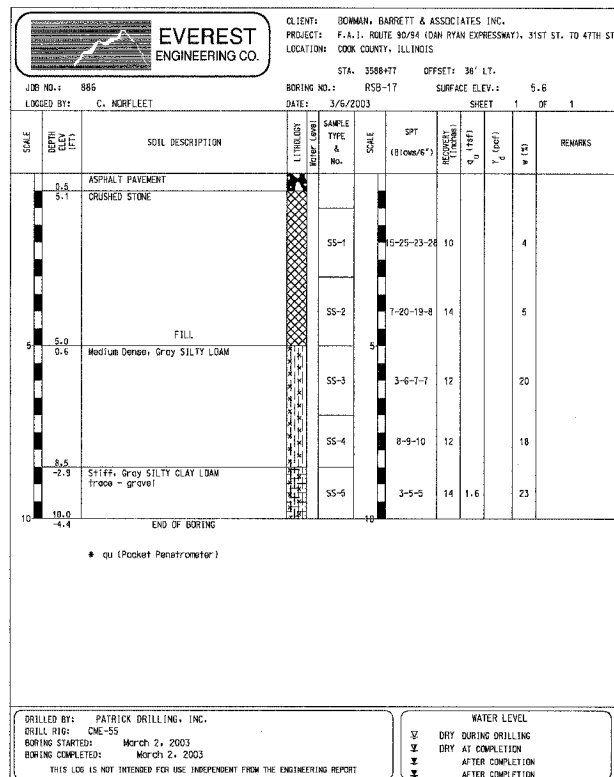
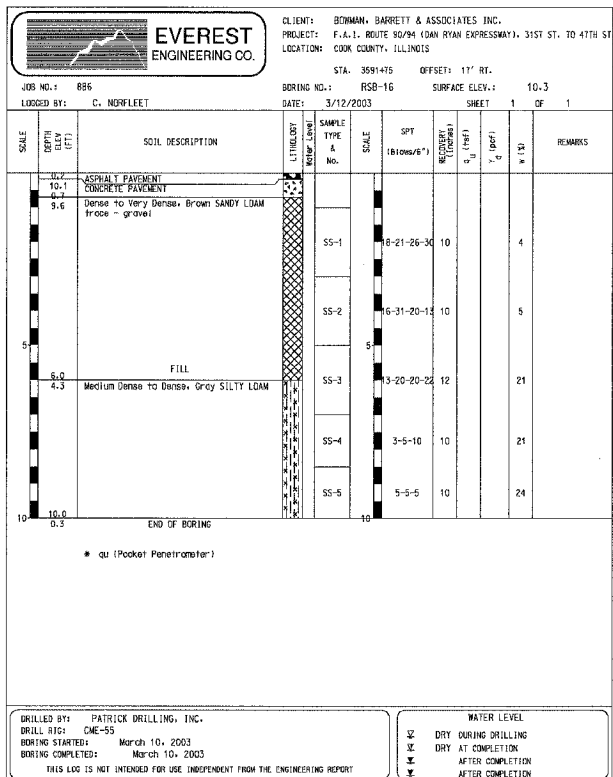
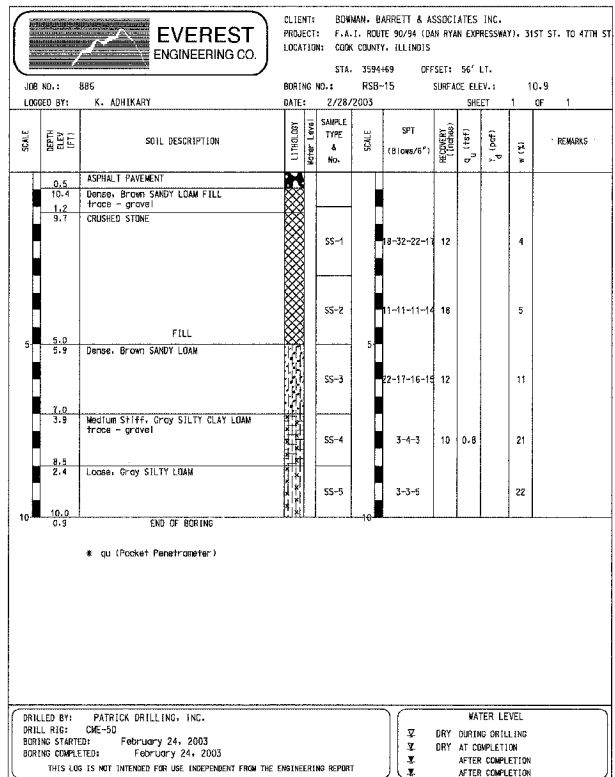
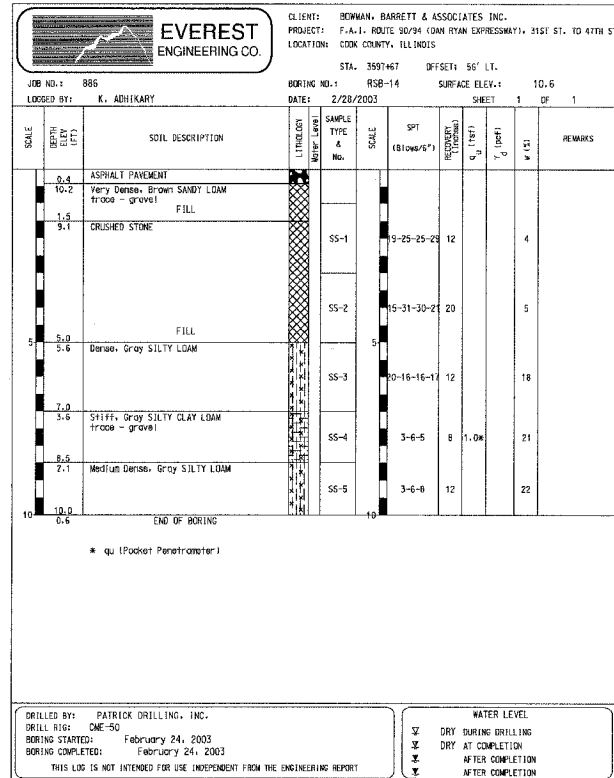
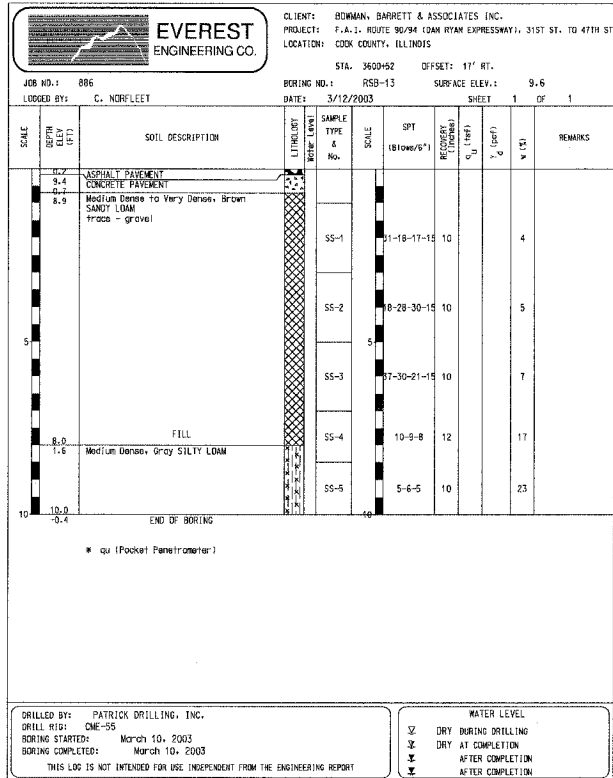
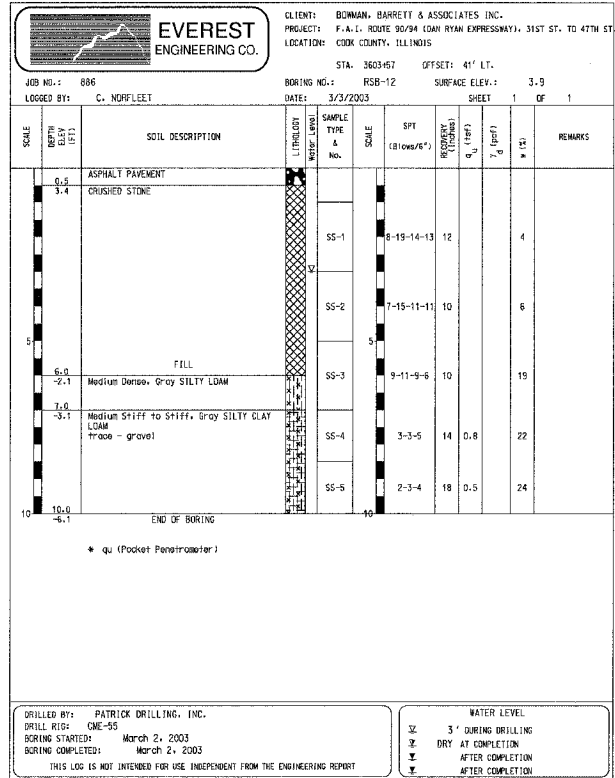
SOIL BORING LOGS

SCALE: 1"=50'
 DATE: 06/09/06

DRAWN BY: LAM
 CHECKED BY: BLU

BL-02

3/26/03 PW
 6/8/2006



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	387
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
62303 * (2021-922 PT2 ETC 2324,6-1P) R-11				

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REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SOIL BORING LOGS

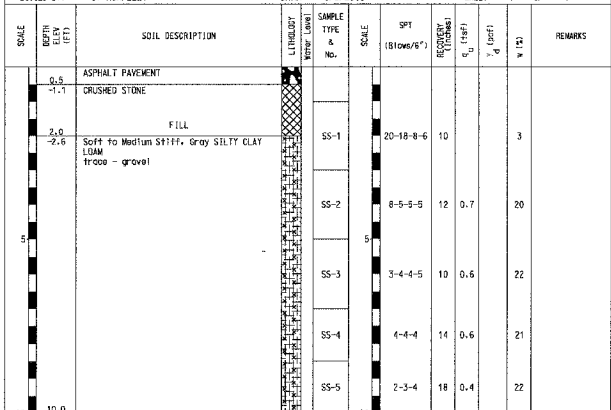
SCALE: 1"=50'
 DATE: 06/09/06

DRAWN BY: LAM
 CHECKED BY: BLU

BL-03
 3/6/2006
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CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3585+68 OFFSET: 38' LT.
 BORING NO.: R50-18 SURFACE ELEV.: -0.6
 DATE: 3/6/2003 SHEET 1 OF 1

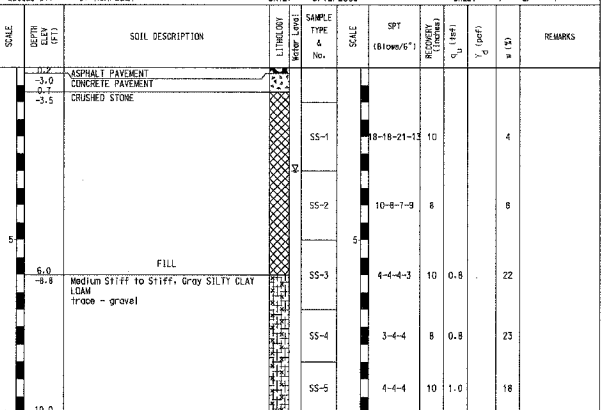


DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-55
 BORING STARTED: March 2, 2003
 BORING COMPLETED: March 2, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 DRY DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION



CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3584+23 OFFSET: 17' RT.
 BORING NO.: R50-19 SURFACE ELEV.: -2.8
 DATE: 3/12/2003 SHEET 1 OF 1

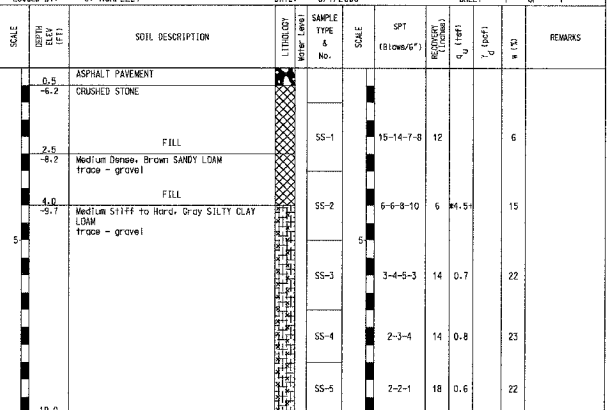


DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-55
 BORING STARTED: March 10, 2003
 BORING COMPLETED: March 10, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 3' DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION



CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3580+00 OFFSET: 40' LT.
 BORING NO.: R50-20 SURFACE ELEV.: -5.7
 DATE: 3/7/2003 SHEET 1 OF 1

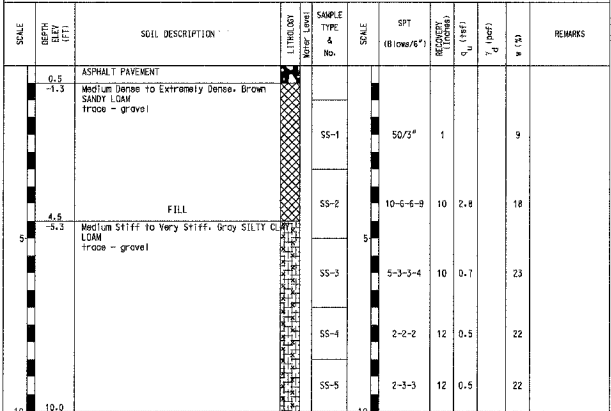


DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-55
 BORING STARTED: March 2, 2003
 BORING COMPLETED: March 2, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 DRY DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION



CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3574+07 OFFSET: 40' LT.
 BORING NO.: R50-21 SURFACE ELEV.: -0.8
 DATE: 3/17/2003 SHEET 1 OF 1

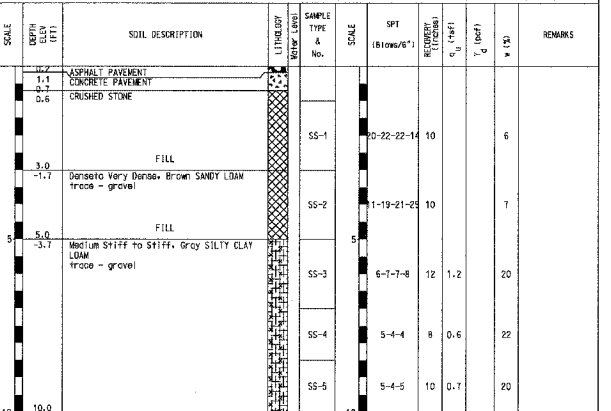


DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-55
 BORING STARTED: March 5, 2003
 BORING COMPLETED: March 5, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 DRY DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION



CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3572+03 OFFSET: 17' RT.
 BORING NO.: R50-22 SURFACE ELEV.: -1.3
 DATE: 3/12/2003 SHEET 1 OF 1

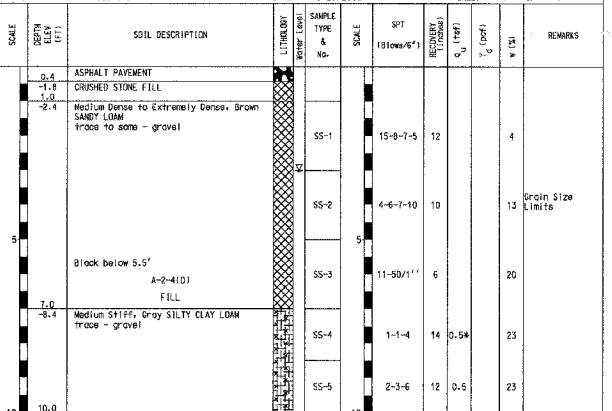


DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-55
 BORING STARTED: March 10, 2003
 BORING COMPLETED: March 10, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 DRY DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION



CLIENT: BOWMAN, BARRETT & ASSOCIATES, INC.
 PROJECT: F.A.I. ROUTE 94/94 (DAN RYAN EXPRESSWAY), 31ST ST. TO 47TH ST
 LOCATION: COOK COUNTY, ILLINOIS
 STA. 3571+00 OFFSET: 59' LT.
 BORING NO.: R50-23 SURFACE ELEV.: -1.4
 DATE: 2/28/2003 SHEET 1 OF 1



DRILLED BY: PATRICK DRILLING, INC.
 DRILL RIG: CM-50
 BORING STARTED: February 24, 2003
 BORING COMPLETED: February 24, 2003
 THIS LOG IS NOT INTENDED FOR USE INDEPENDENT FROM THE ENGINEERING REPORT

WATER LEVEL
 3' DURING DRILLING
 DRY AT COMPLETION
 AFTER COMPLETION

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	388
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

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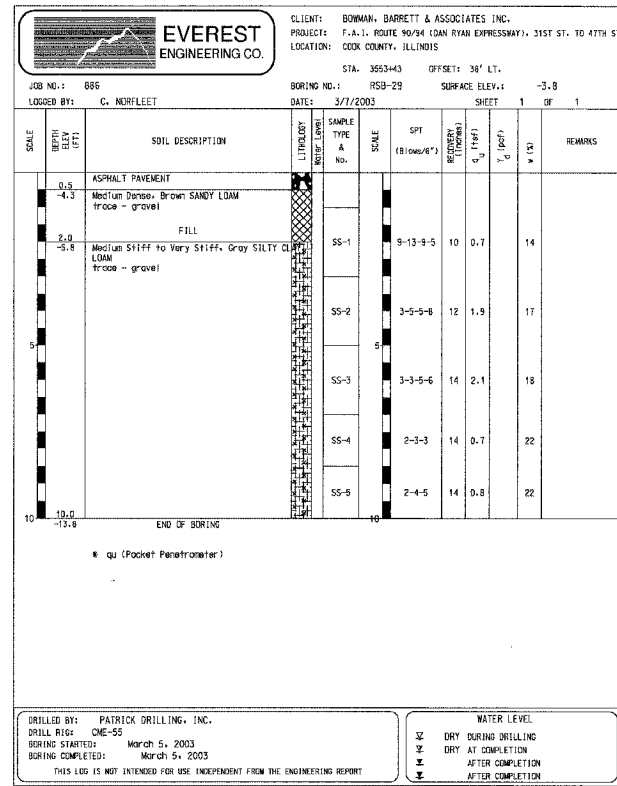
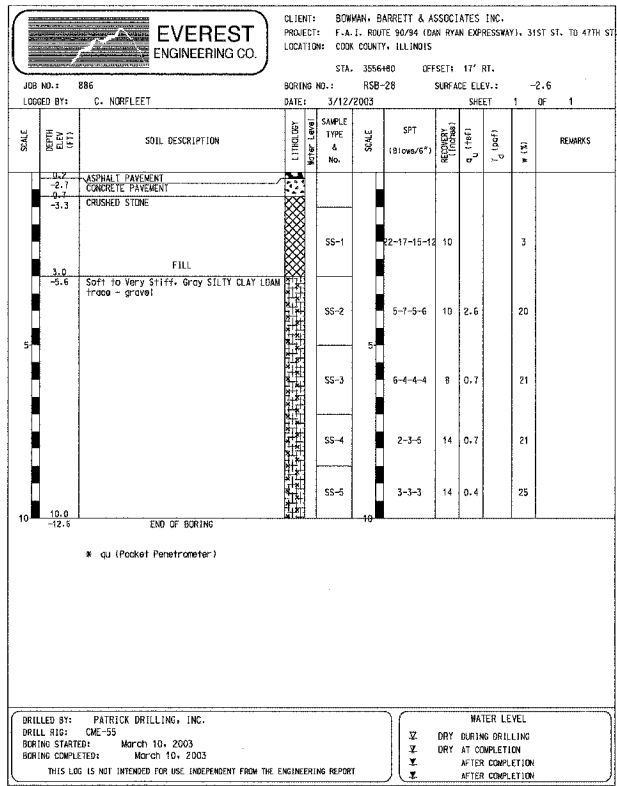
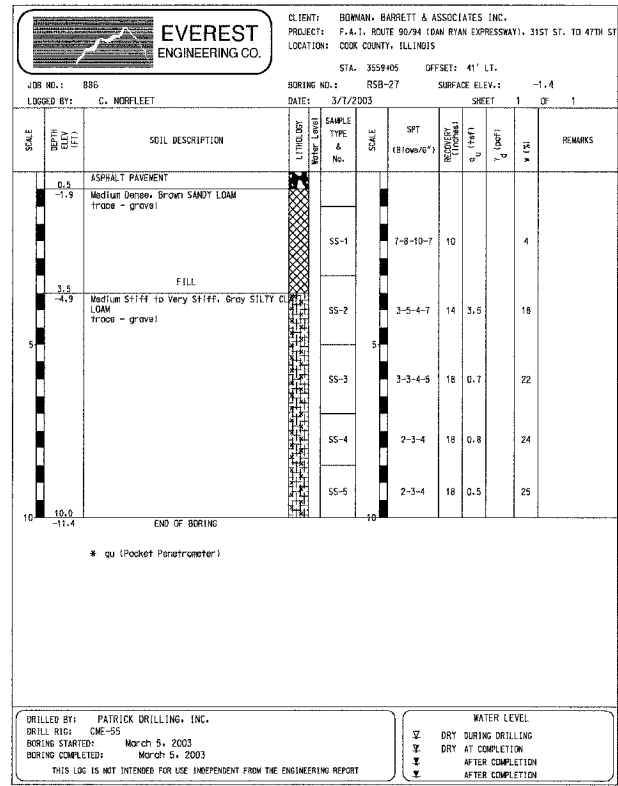
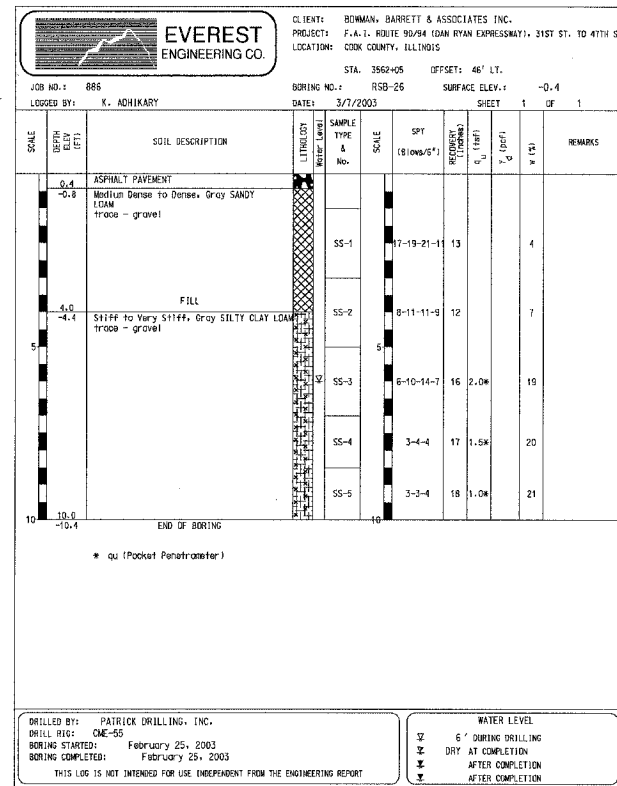
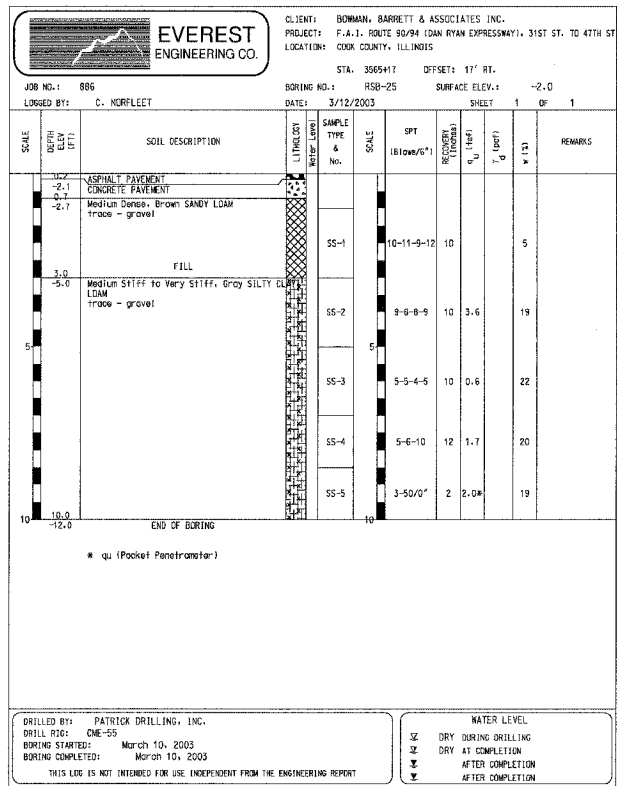
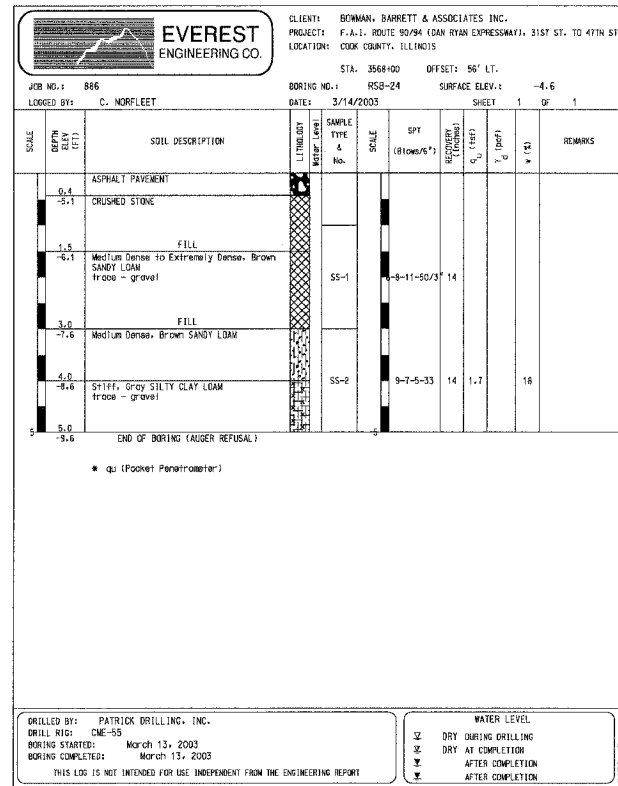
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 SOIL BORING LOGS

SCALE: 1"=50'
 DATE: 06/09/06
 DRAWN BY: LAM
 CHECKED BY: BLU

BL-04

6/8/2006 3:56:14 PM



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	389
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

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REVISIONS	
NAME	DATE

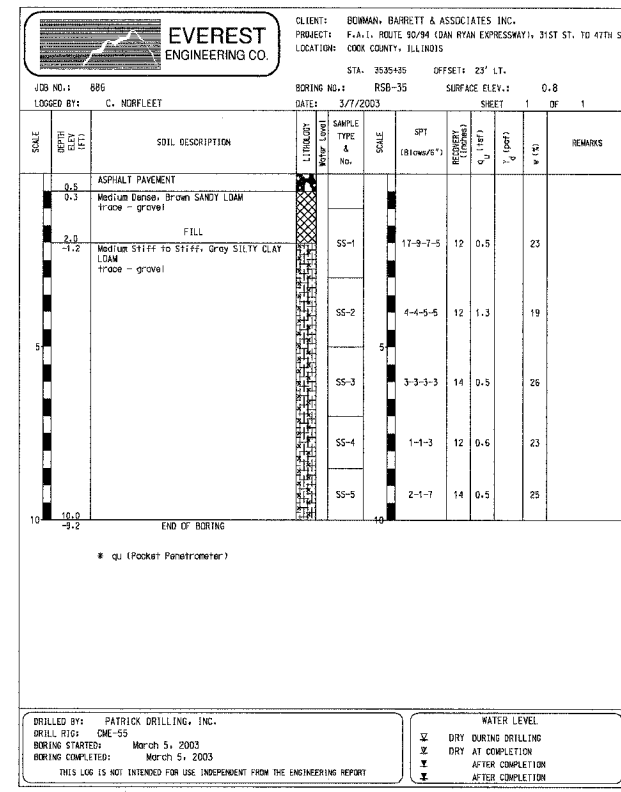
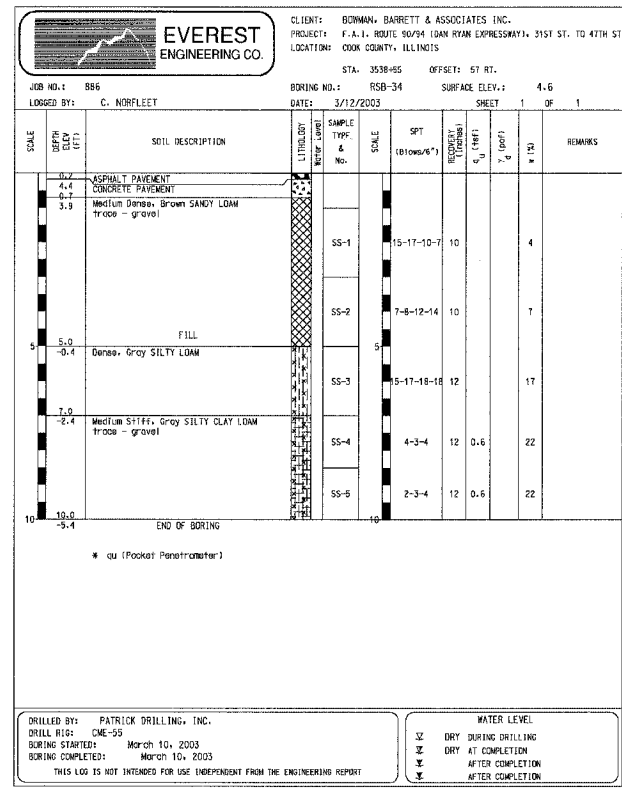
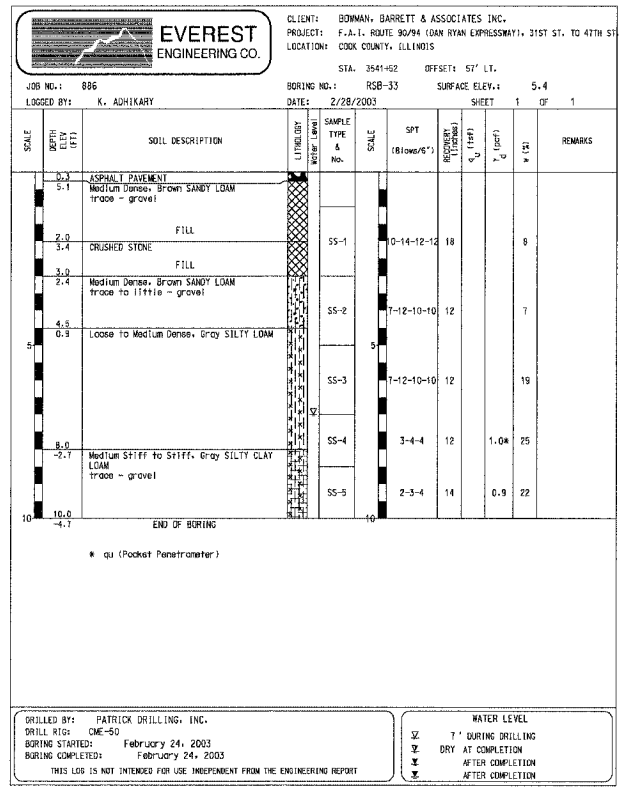
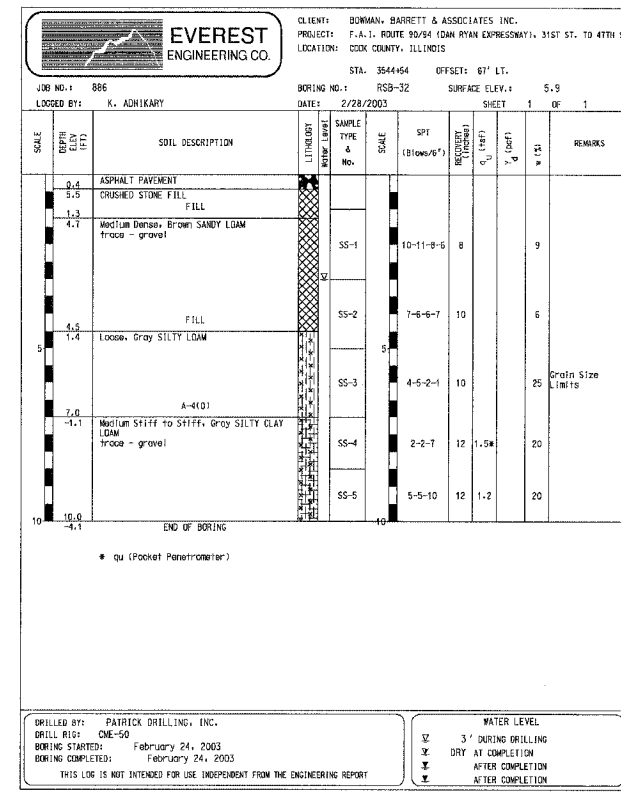
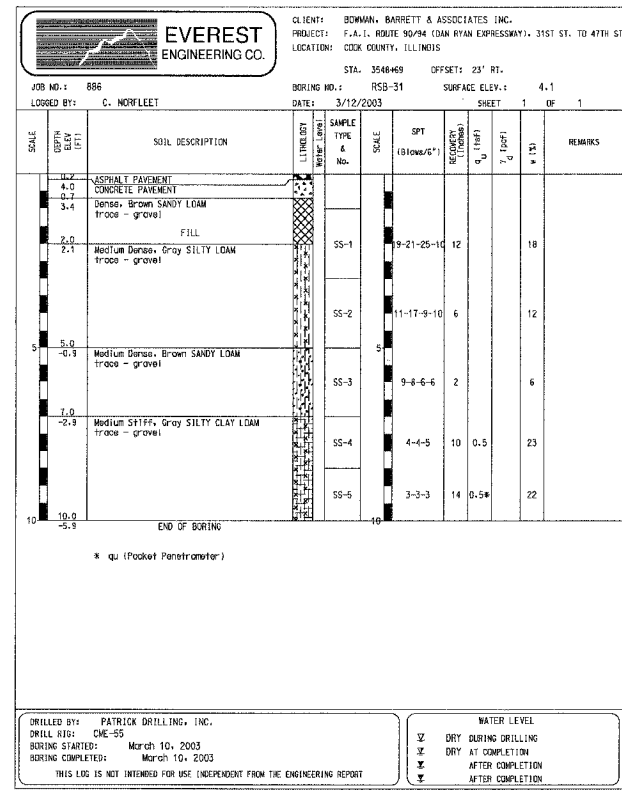
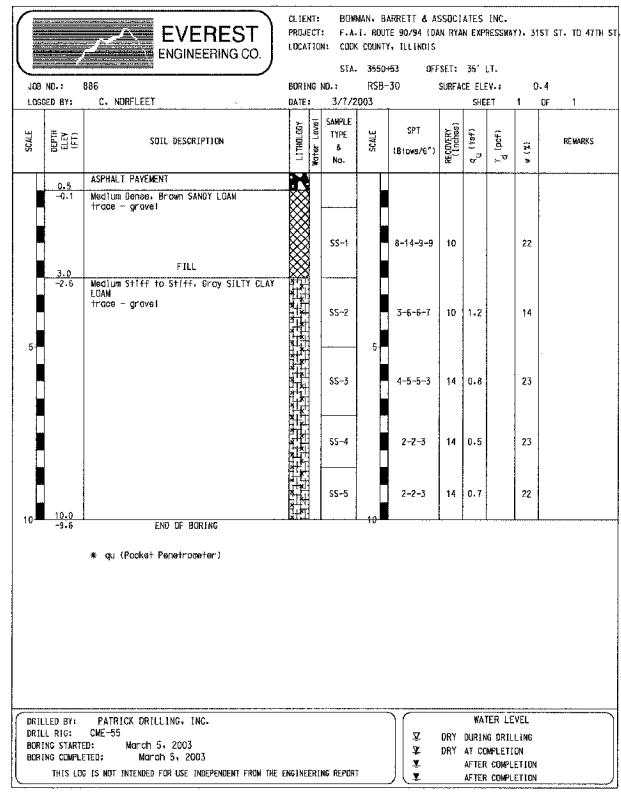
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SCALE: 1"=50'
 DATE: 06/09/06

SOIL BORING LOGS

DRAWN BY: LAM
 CHECKED BY: BLU

BL-05
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 6/8/2006



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	390
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				

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REVISIONS	
NAME	DATE

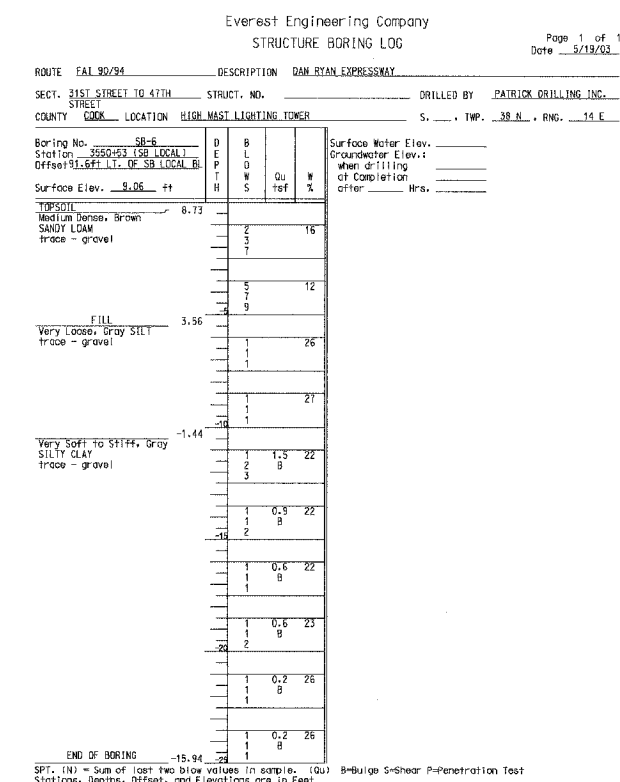
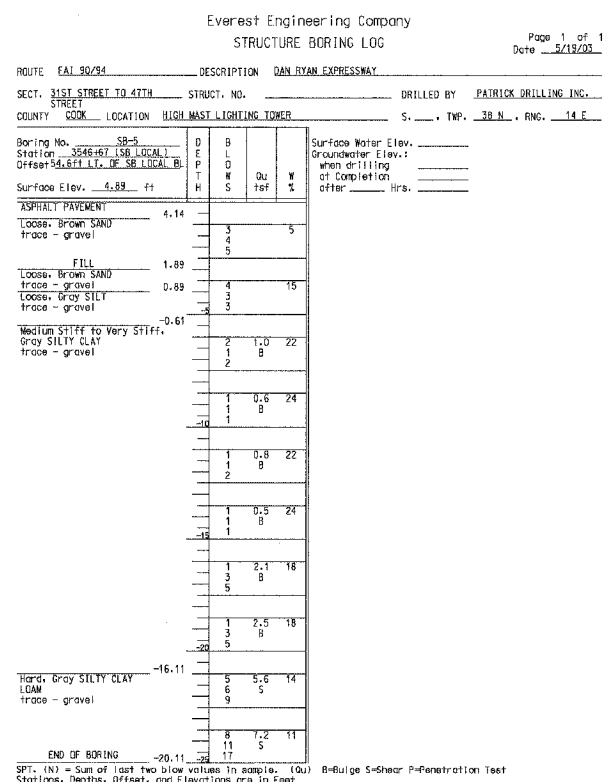
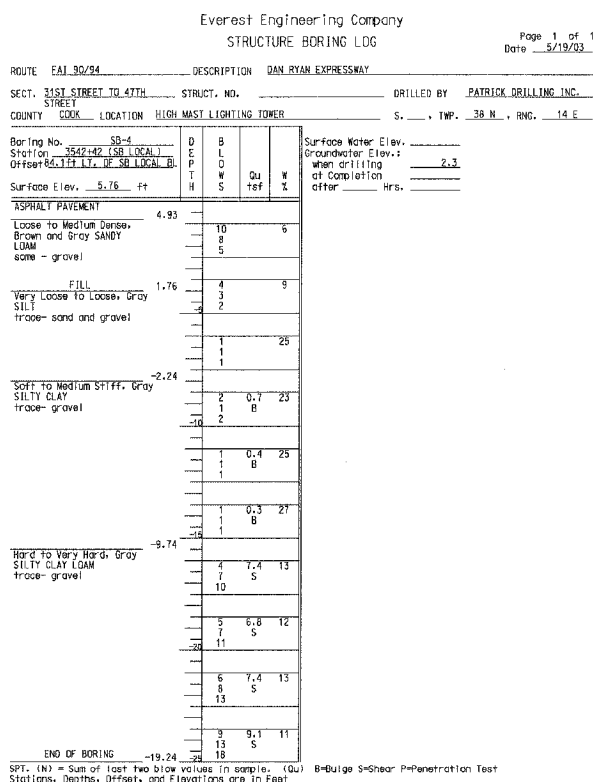
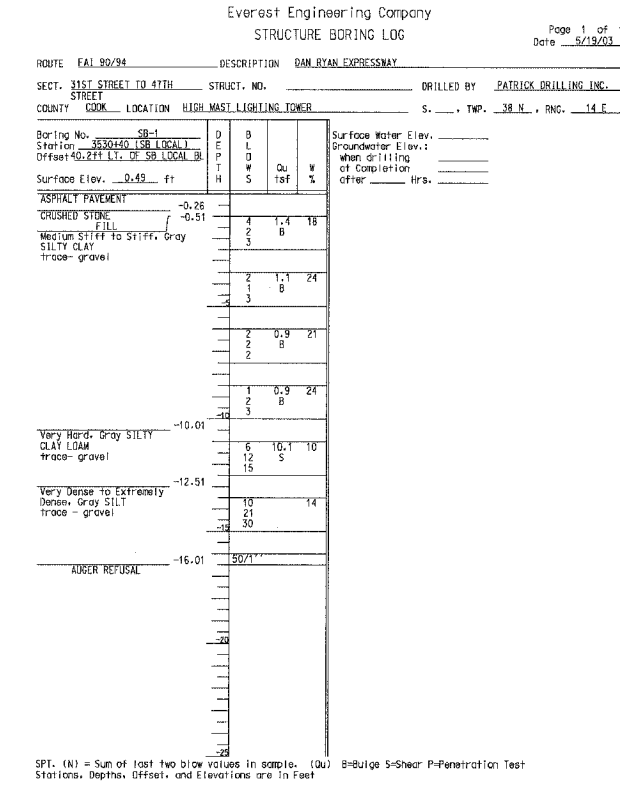
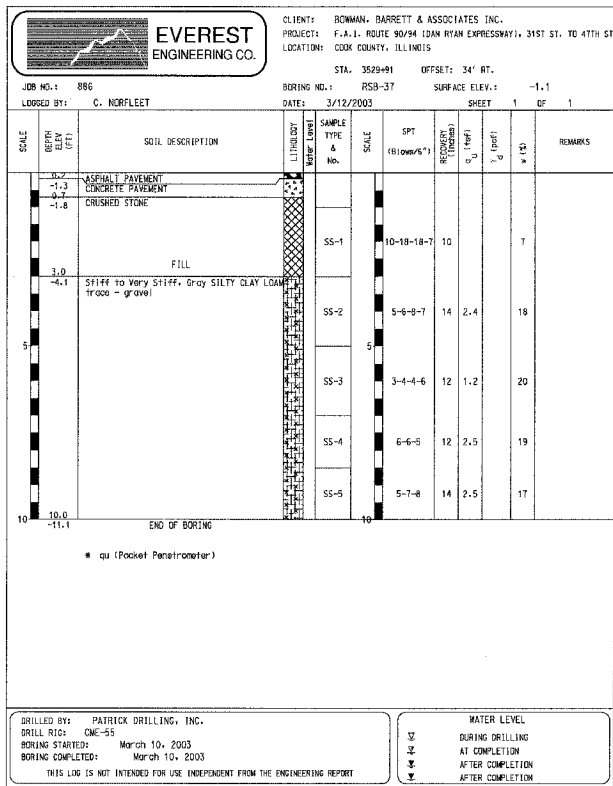
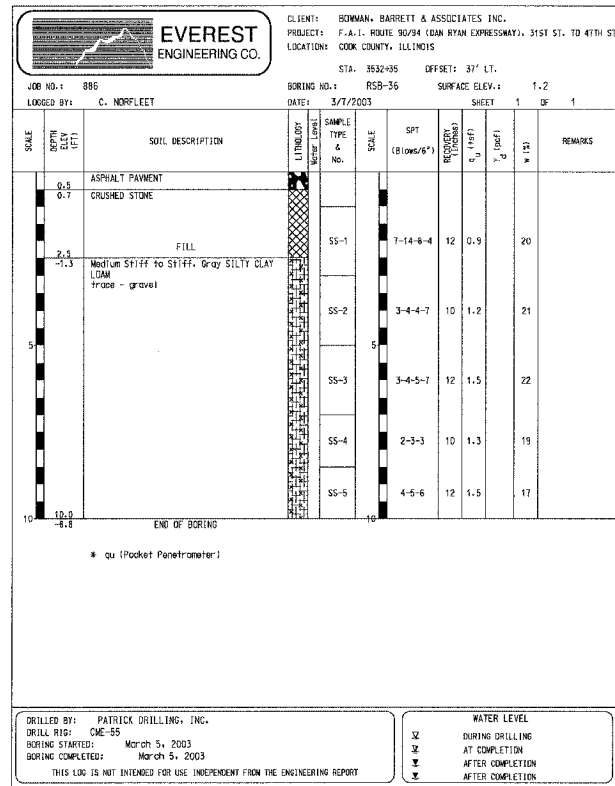
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SCALE: 1"=50'
 DATE: 06/09/06

SOIL BORING LOGS

DRAWN BY: LAM
 CHECKED BY: BLU

BL-06
3/6/05 PM
6/8/2006



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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
SOIL BORING LOGS

SCALE: 1"=50'
DATE: 06/09/06
DRAWN BY: LAM
CHECKED BY: BLU

BL-07
3/6/05 PM
6/8/2006

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-14	388119	11.0	-3.15											
ASPHALT PAVEMENT -3.90														
CRUSHED STONE														
FILL														
Soft to Very Stiff, Gray SILTY CLAY trace - gravel														
Hard to Very Hard, Gray SILTY CLAY LOAM trace - gravel														
END OF BORING -28.15														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-15	388172	11.0	-4.58											
TOPSOIL														
CRUSHED STONE														
FILL														
Very Soft to Stiff, Gray SILTY CLAY trace - gravel														
END OF BORING -20.42														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-16	388188	11.0	-10.85											
TOPSOIL														
Medium Dense, Brown SANDY LOAM trace - gravel														
FILL														
Medium Dense, Brown SANDY LOAM trace - gravel														
Very Loose, Gray SILT trace - gravel														
Very Soft to Stiff, Gray SILTY CLAY trace - gravel														
END OF BORING -14.15														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-17	388281	11.0	-12.70											
TOPSOIL														
Medium Dense, Brown SANDY LOAM trace - gravel														
FILL														
Loose, Brown SANDY LOAM trace to sand - gravel														
Loose, Brown SANDY GRAVEL														
Loose, Gray SILT trace - gravel														
Soft to Stiff, Gray SILTY CLAY trace - gravel														
END OF BORING -12.30														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-18	388381	11.0	-11.42											
TOPSOIL														
Medium Dense, Brown SANDY LOAM trace - crushed stone and topsoil														
FILL														
Very Loose to Loose, Gray SILT trace - gravel														
Soft to Stiff, Gray SILTY CLAY trace - gravel														
END OF BORING -13.58														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ROUTE: FAI 90/94 DESCRIPTION: DAN RYAN EXPRESSWAY
SECT.: 31ST STREET TO 4TH STREET STRUCT. NO.: _____ DRILLED BY: PATRICK DRILLING, INC.
COUNTY: COOK LOCATION: HIGH MAST LIGHTING TOWER S. TWP. 39 N., RNG. 14 E.

Boring No.	Station	Offset	Surface Elev.	D	B	L	S	Qu	W	%	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
SB-21	388114	11.0	-1.34											
ASPHALT														
CRUSHED STONE														
FILL														
Soft to Very Stiff, Gray SILTY CLAY trace - gravel														
END OF BORING -23.66														

SPT. (N) = Sum of last two blow values in sample. (Qu) = B-Bulge S-Shear P-Penetration Test Stations, Depths, Offset, and Elevations are in Feet

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	393
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324,6-1P) R-11				

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
SOIL BORING LOGS

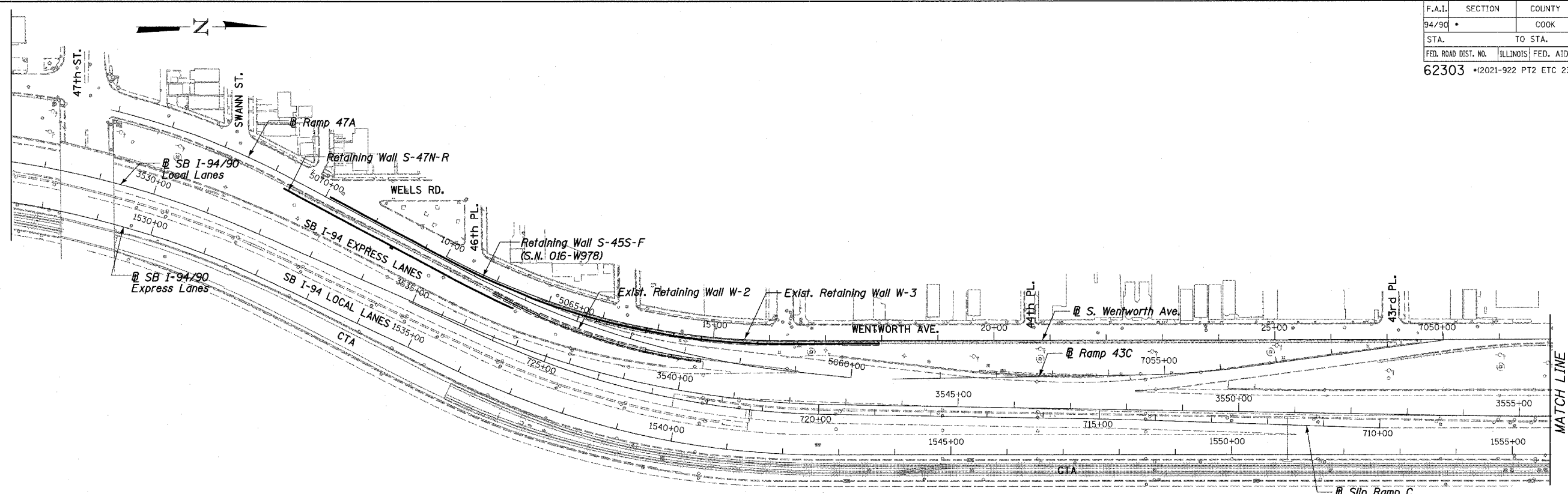
SCALE: 1"=50'
DATE: 06/09/06

DRAWN BY: LAM
CHECKED BY: BLU

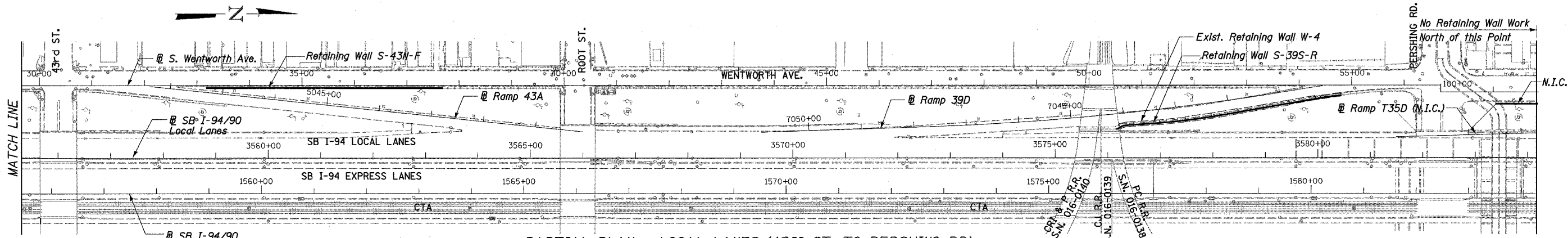
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6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	396
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	*(2021-922 PT2 ETC 2324.6-1P) R-11			



PARTIAL PLAN - LOCAL LANES (47TH ST. TO 43RD ST.)



PARTIAL PLAN - LOCAL LANES (43RD ST. TO PERSHING RD)

WALL NUMBER DESIGNATION

X-##Y-Z
 X = Direction of mainline traffic, S (South) or N (North)
 ## = Cross Street Number
 Y = Location relative to Cross Street, S (South) or N (North)
 Z = Adjacent to R (Ramp) or F (Frontage Road)

N.I.C. = Not in Contract

GENERAL NOTES

- All construction joints shall be bonded.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- Existing wall designations from 1961 as-built are provided "For Information Only".
- Key Plan shows existing and proposed walls superimposed on existing conditions only with proposed baselines. See Roadway Plans for all proposed civil works.
- Expansion joints and vertical construction joints are mandatory, horizontal construction joints are optional U.N.O.

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REVISED	06/23/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALLS
 KEY PLAN & GENERAL NOTES**

SCALE: NTS
 DATE: JUNE 9, 2006

DRAWN BY: KMW
 CHECKED BY: BLU

I:\660\940\90\94\RET_WALL660_395.dwg
 5/23/2006 12:46:27 PM

Benchmark: BM No. 3528
 "+ Cut on Northwesterly bolt of Fire Hydrant at the Northwest corner of 45th St. and Wentworth Ave. El. 16.20

Salvage: None

DESIGN SPECIFICATIONS

2002 AASHTO

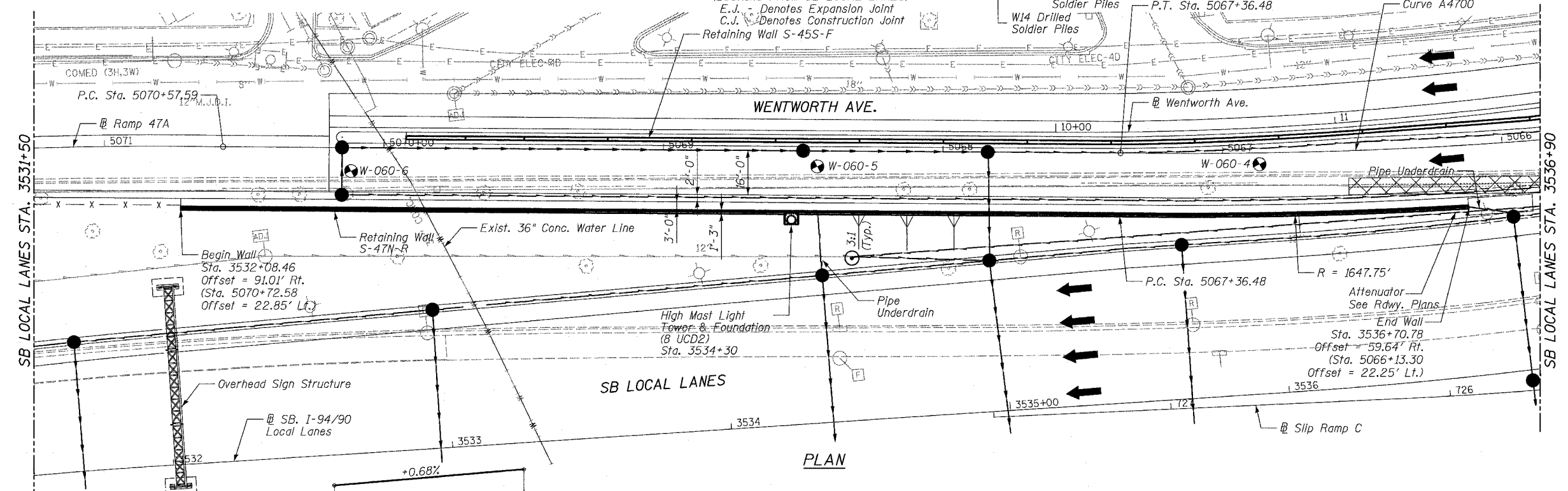
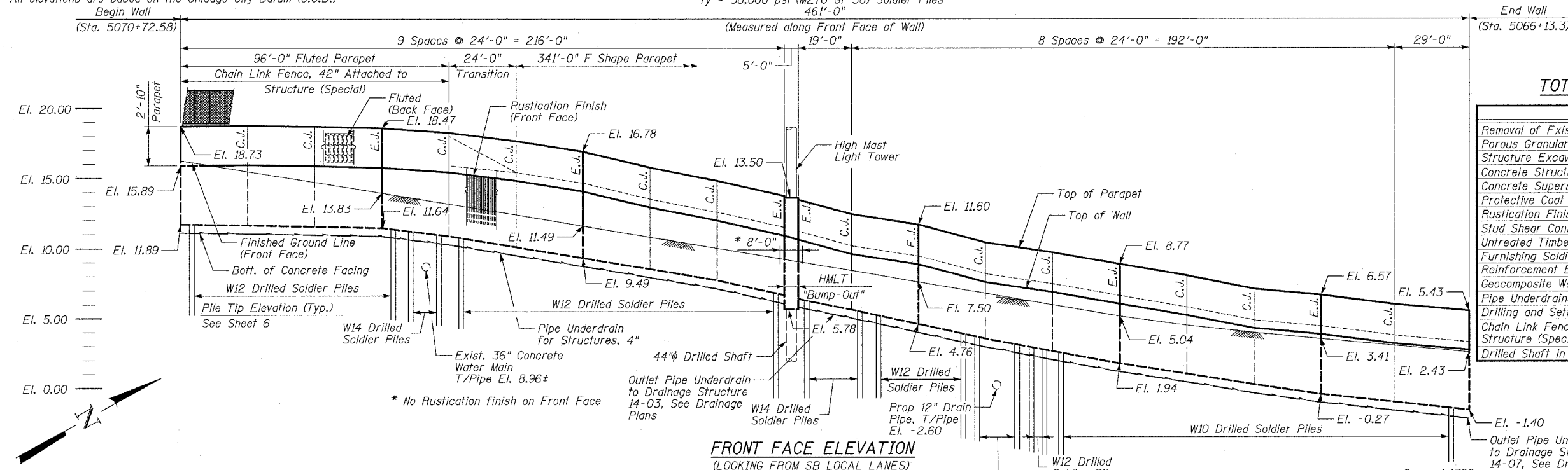
DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Gr 36) Soldier Piles
 461'-0"

LOADING

2002 AASHTO

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	397
STA.		TO STA.		
62303		*I2021-922 PT2 ETC 2324.6-1P1 R-11		

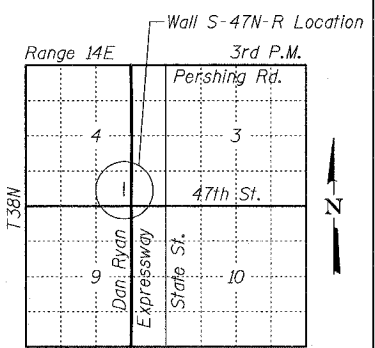


TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 2	Each	1
Porous Granular Embankment (Special)	Cu. Yd.	6
Structure Excavation	Cu. Yd.	127
Concrete Structures	Cu. Yd.	79.4
Concrete Superstructure	Cu. Yd.	46.7
Protective Coat	Sq. Yd.	301
Rustication Finish	Sq. Ft.	1,202
Stud Shear Connectors	Each	344
Untreated Timber Lagging	Sq. Ft.	1,403
Furnishing Soldier Piles (W Section)	Foot	1,031
Reinforcement Bars, Epoxy Coated	Pound	22,210
Geocomposite Wall Drain	Sq. Yd.	117
Pipe Underdrains for Structures 4"	Foot	465
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	4,081
Chain Link Fence, 42" Attached to Structure (Special)	Foot	95
Drilled Shaft in Soil, 44"	Foot	30

LEGEND

- Soil Boring Location
- High Mast Lighting (Wall Mounted)
- Removal of Exist. Structures
- Proposed Underdrain
- Proposed Storm Sewer



LOCATION SKETCH

SHEET 1 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-47N-R
 GENERAL PLAN AND ELEVATION**

SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: LAM
 CHECKED BY: BLU

Notes:

1. Offsets given to Front Face of Wall. Station and offsets in parentheses are along Frontage Road or ramp.
2. HMLT, foundations and work pads by others. See Special Provisions for Contractor Cooperation.
3. Wall to be built along straight chords between construction joints.
4. Min. Facing in contact with soldier pile shall be 3'-0".
5. Coordinate pipe underdrain outlet with Drainage Contractor.

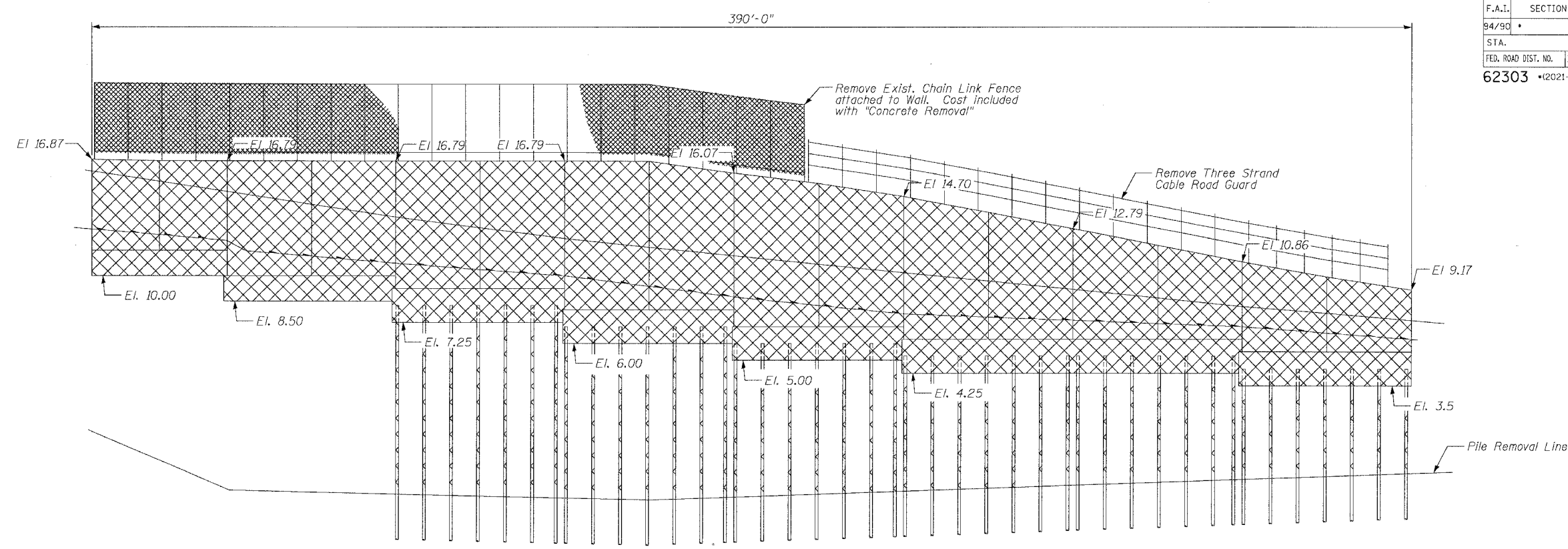
REVISIONS	
NAME	DATE
REVISED	06/20/06

PVT Sta. 3528+20.00 El. -2.46
 PVC Sta. 3541+10.00 El. +6.39

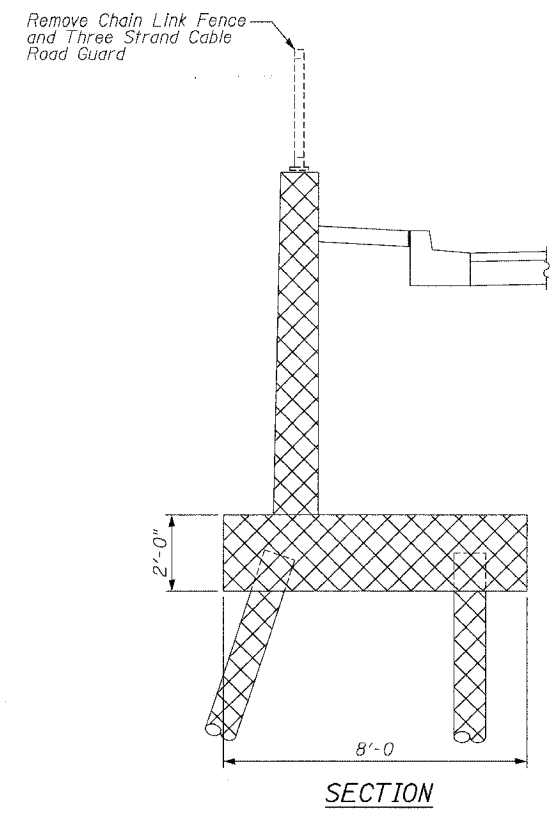
PROFILE GRADE LINE
 Along @ SB LOCAL LANES

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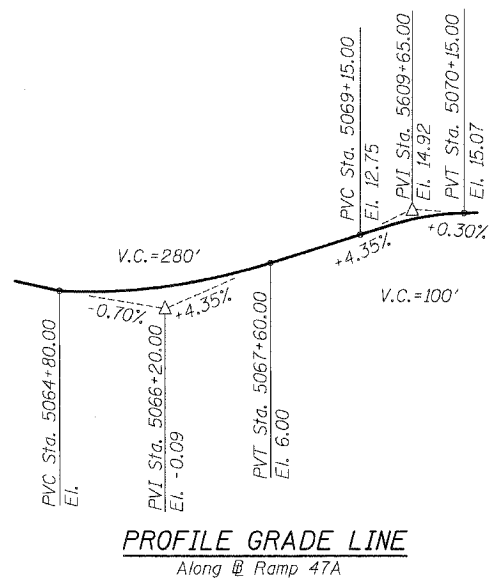
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	398
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303 (2021-922 PT2 ETC 2324.6-1P) R-11				



FRONT FACE - EXISTING WALL W-2



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CURVE DATA

CURVE A4700
P.I. STA = 5064+21.82
N = 1,874,765.22
E = 1,175,731.41
Δ = 22° 28' 55" (RT)
D = 3° 31' 33"
R = 1,625.00'
T = 322.97'
L = 637.62'
E = 31.78'
e = 4.4%
S.A. = STA 5060+00 (3.58%)
TO 5061+21.86
S.R. = STA 5067+13.48
TO 5067+83.48
P.C. STA = 5060+98.86
N = 1,875,087.21
E = 1,175,756.48
P.T. STA = 5067+36.48
N = 1,874,477.28
E = 1,175,585.12

LEGEND

- Removal of Existing Structures

BILL OF MATERIAL

ITEM	UNIT	QTY.
Removal of Existing Structures	Each	1

SHEET 2 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R
EXISTING RET. WALL-2
REMOVAL DETAILS

SCALE: NTS
DATE: JUNE 9, 2006

DRAWN BY: MTR
CHECKED BY: BLU

12/25/05 PM 6/8/2006

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	399
STA.		TO STA.		
62303		*2021-922 PT2 ETC 2324.6-1P1 R-11		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

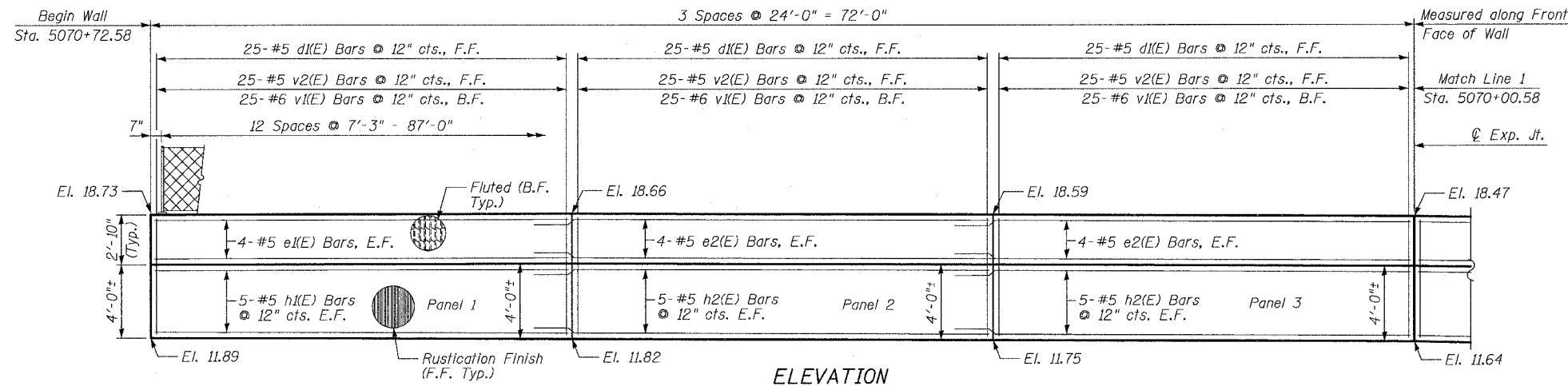
NOTES:

1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
2. See Sheet 9 for reinforcing bar clearances.
3. Stations given are @ Ramp 47A.
4. See Sheet 9 for parapet reinforcing transition detail.

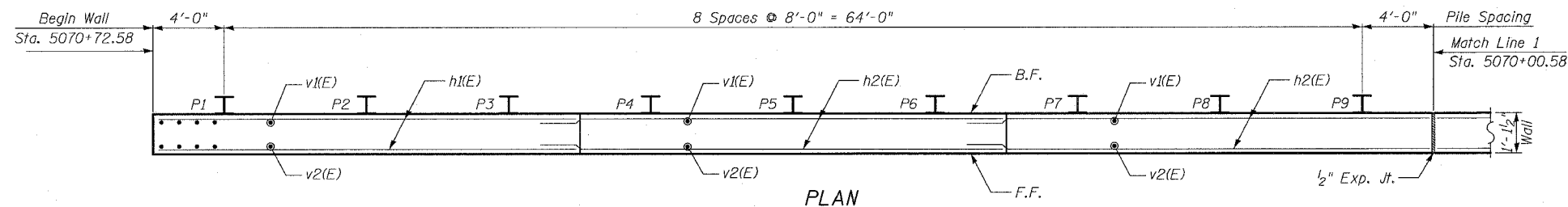
F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

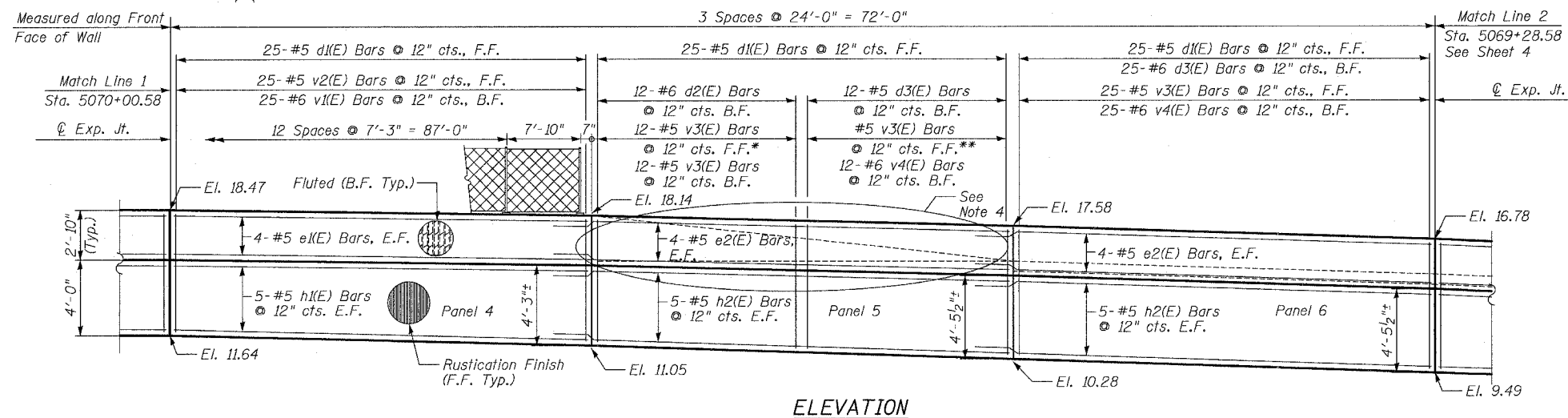
#5 - 2'-2"
 #6 - 2'-7"



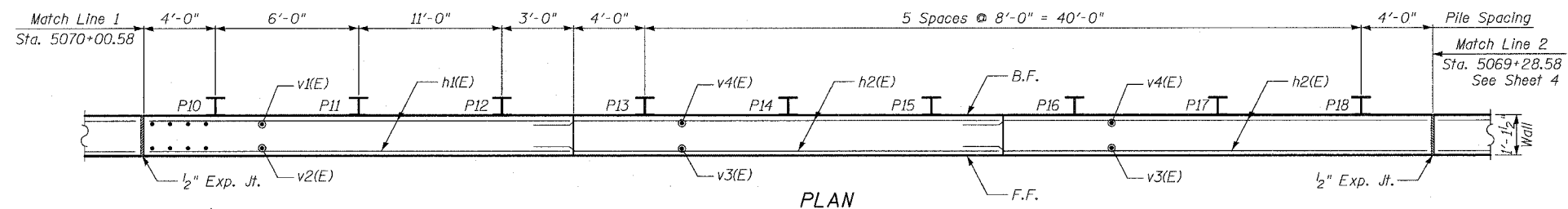
ELEVATION



PLAN



ELEVATION



PLAN

SHEET 3 OF 15

REVISIONS	
NAME	DATE
REVISED	6/21/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R
 WALL DETAILS 1

SCALE: NTS
 DATE: JUNE 9, 2006

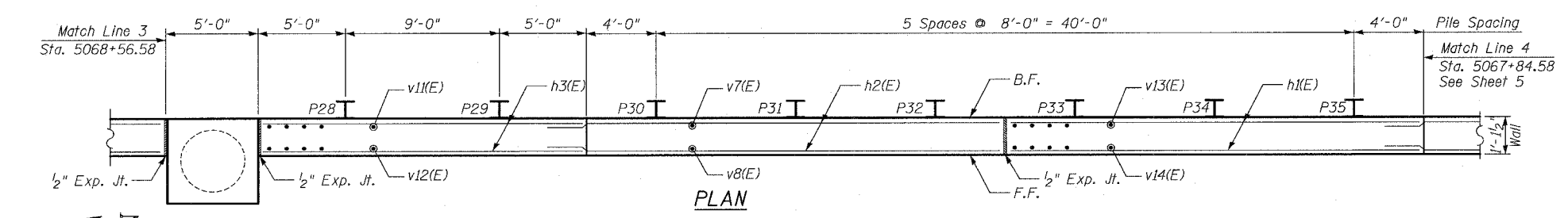
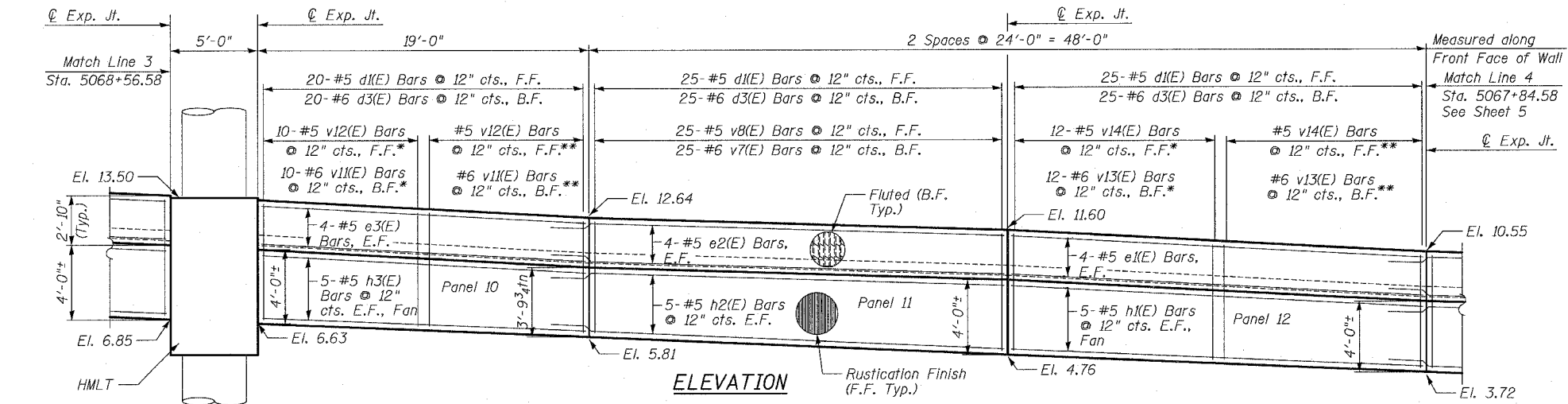
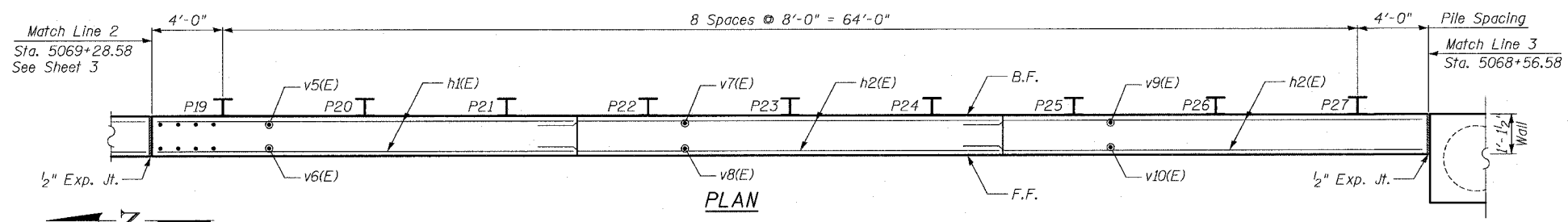
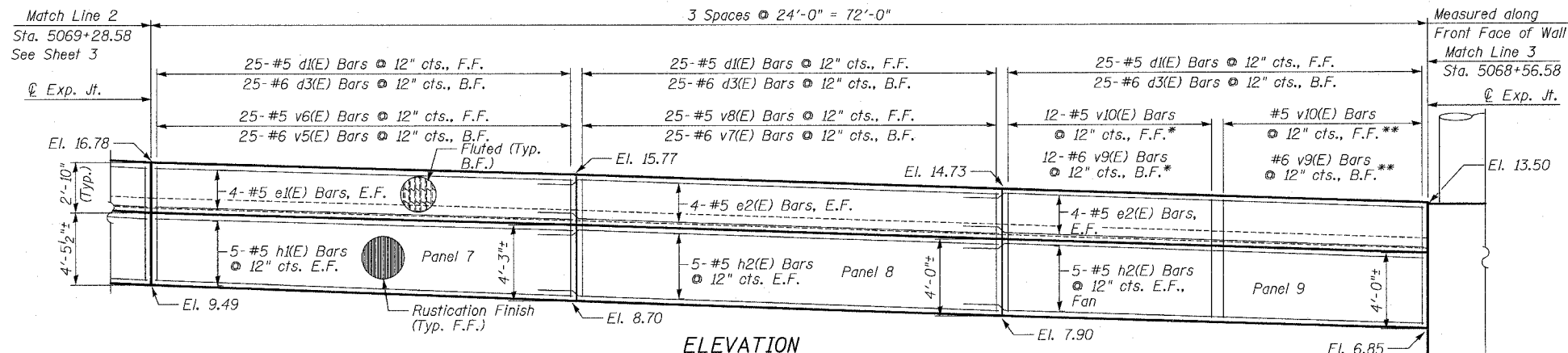
DRAWN BY: MTR
 CHECKED BY: BLU

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6/23/2006 107428 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	400
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*12021-922 PT2 ETC 2324.6-1P	R-11		



NOTES:

1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
2. See Sheet 9 for reinforcing bar clearances.
3. Stations given are @ Ramp 47A.
4. See Sheets 7A and 7B for High Mast Light Tower Details.

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

- #5 - 2'-2"
- #6 - 2'-7"

* Order bars full length and cut as indicated in cutting diagram.

** Remaining Bars from Cutting Diagram

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-47N-R
 WALL DETAILS 2**

SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

REVISIONS	
NAME	DATE
REVISED	6/21/06

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16884.FIN 6/23/2006