

Edwards AND Kelcey
 ONE NORTH FRANKLIN CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EDWARDS-KELCEY.COM

LEGEND
 [###] ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 [##.##] ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [.#.##] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT

NOTE:
 1. PAVEMENT ELEVATIONS ALONG RAMPS, GORES AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1402+00 TO STA. 1413+00
 SCALE: 1"=20'
 DATE: 7/7/05
 DRAWN BY: TAI
 CHECKED BY: PJM

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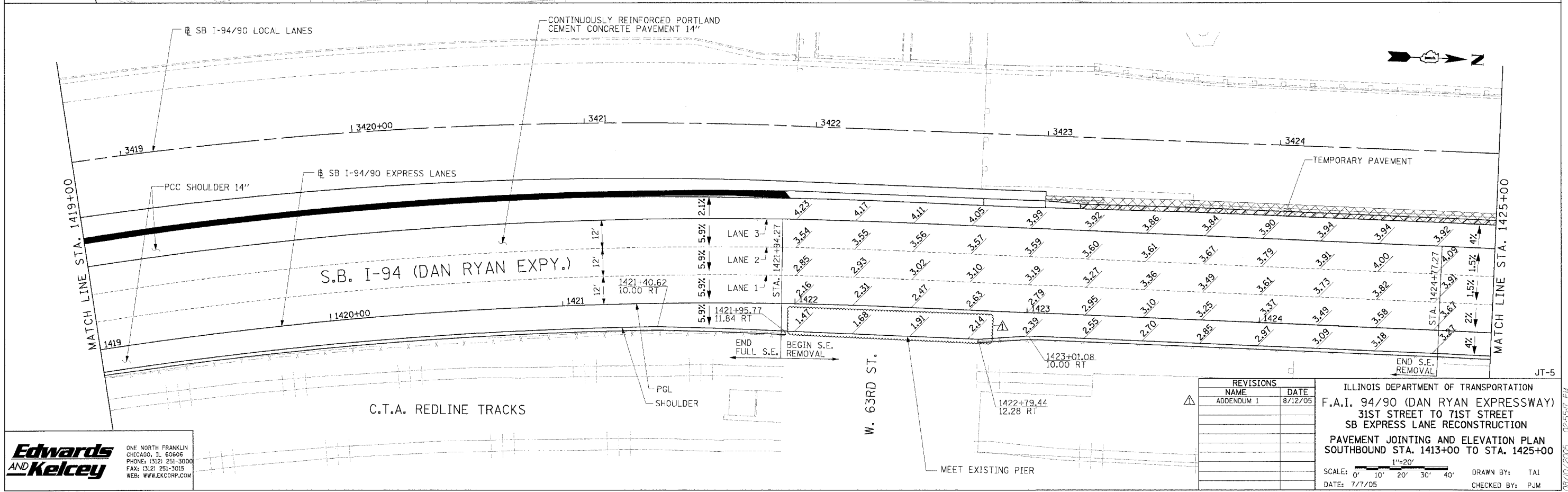
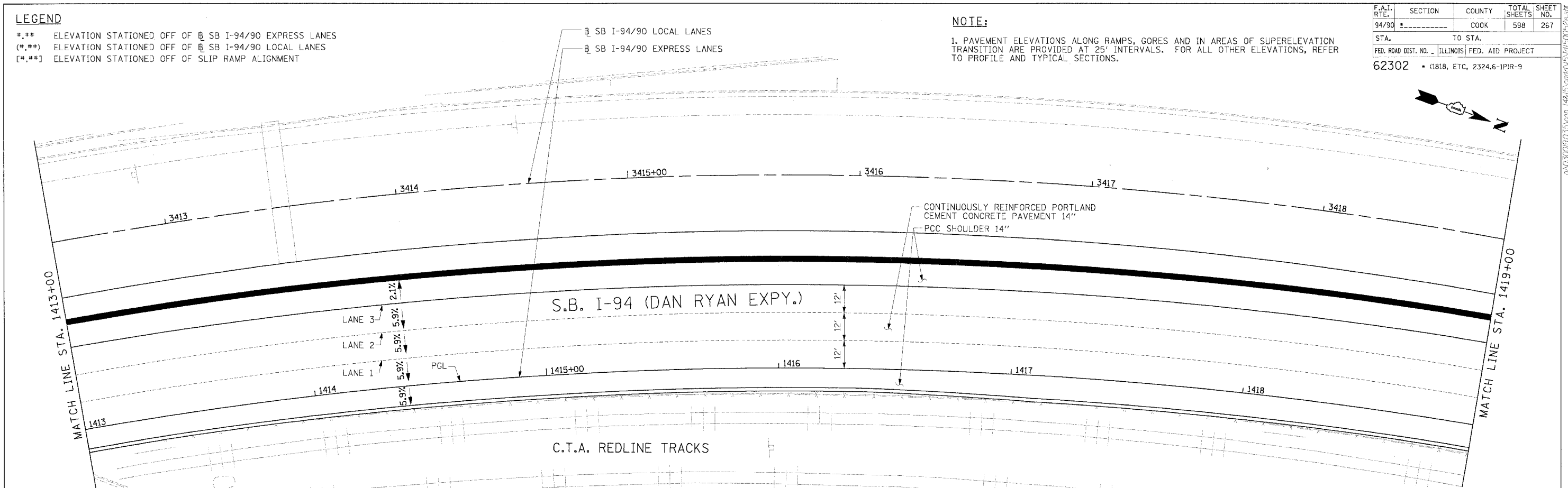
LEGEND

- *** ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
- (***) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
- [***] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT

NOTE:

1. PAVEMENT ELEVATIONS ALONG RAMP, GORES AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	267
STA.		TO STA.		
62302		1818, ETC, 2324.6-1PR-9		



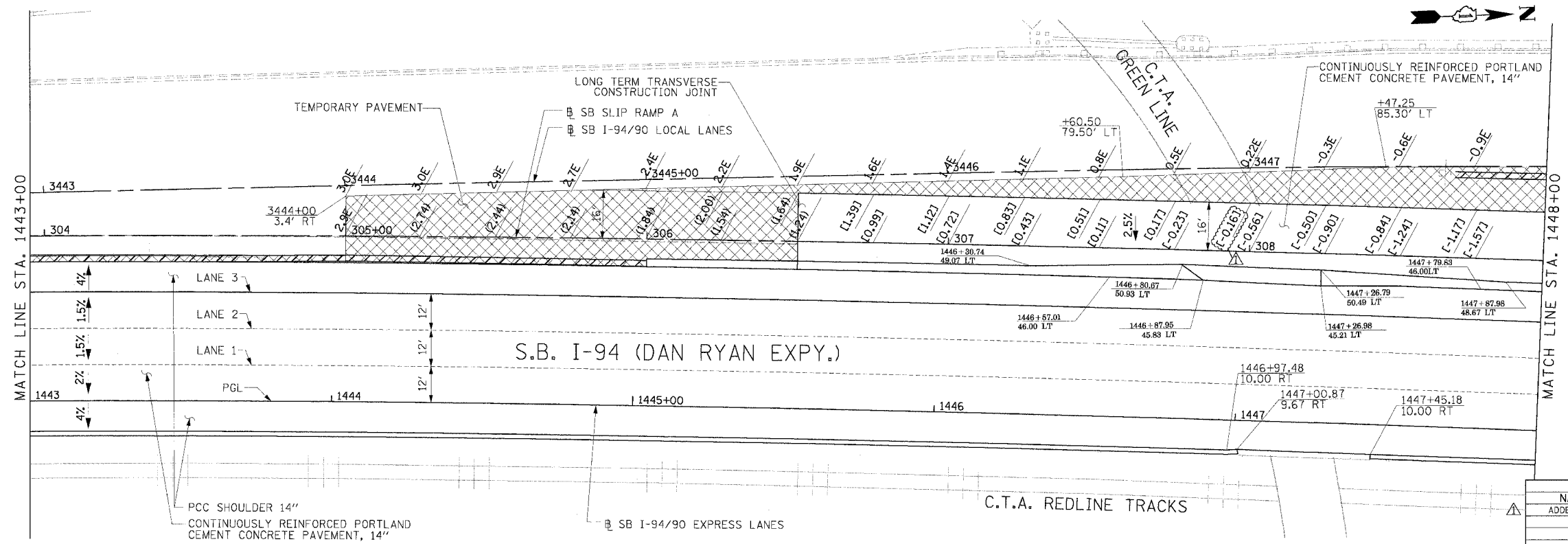
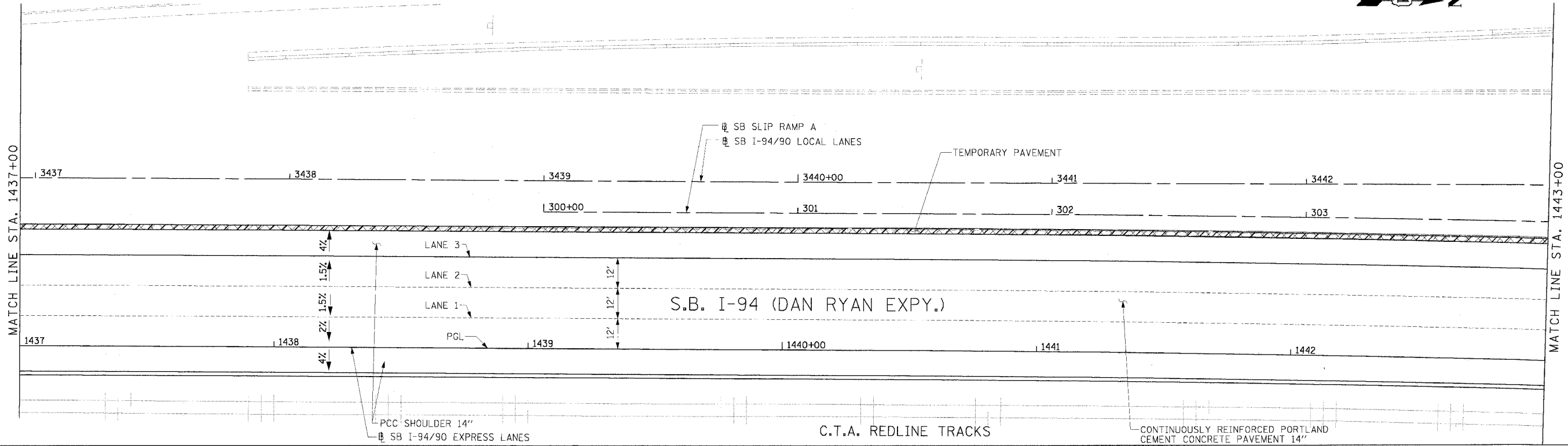
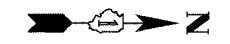
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1413+00 TO STA. 1425+00
 SCALE: 1"=20'
 DATE: 7/7/05
 DRAWN BY: TAI
 CHECKED BY: PJM

08/10/2005 09:55:17 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	269
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62302		1818, ETC, 2324.6-1PR-9		



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LEGEND
 [ELEVATION] ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 [L.E.] ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [S.E.] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT

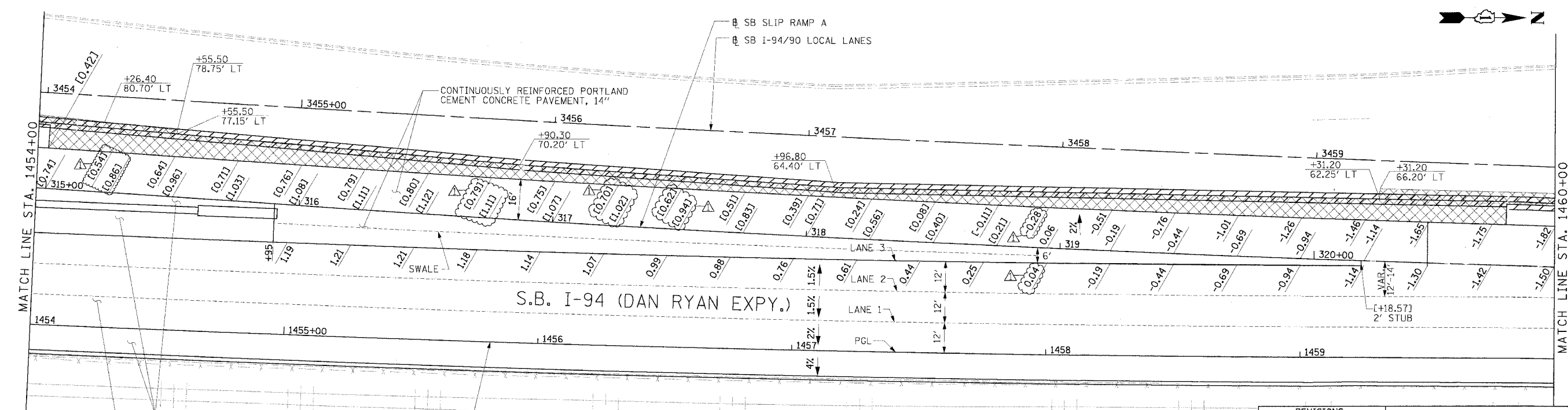
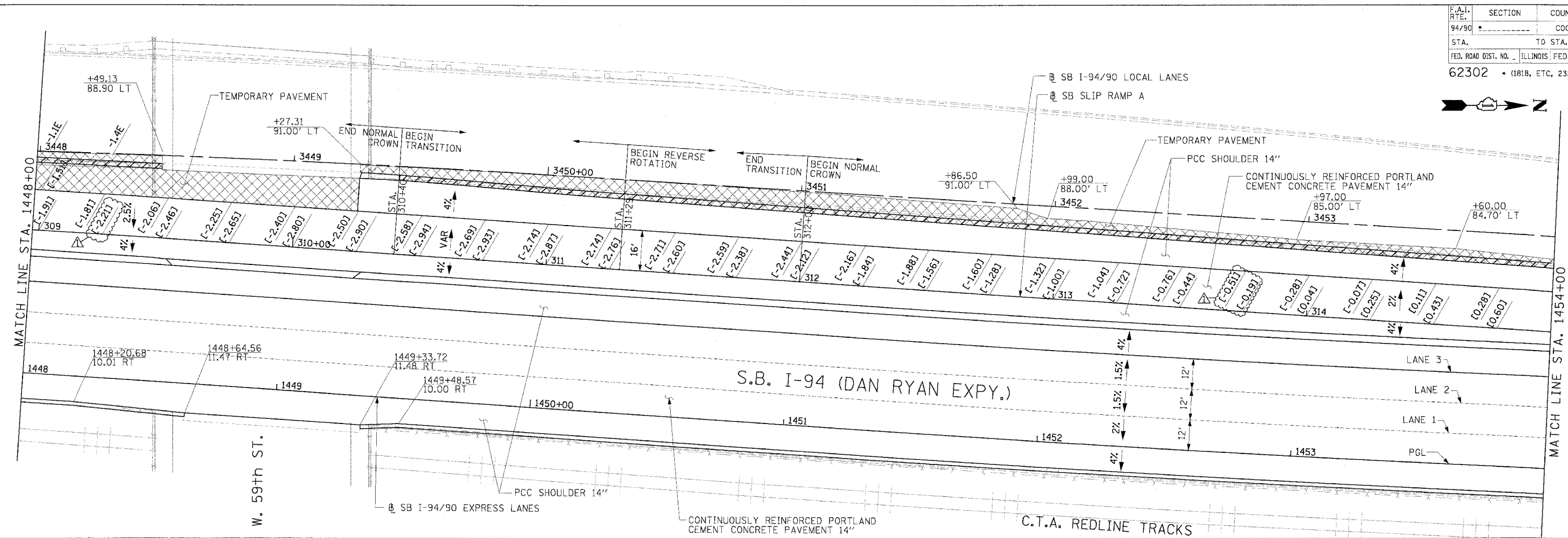
NOTE:
 1. PAVEMENT ELEVATIONS ALONG RAMPS, GOES AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1437+00 TO STA. 1448+00
 SCALE: 1"=20'
 DATE: 7/1/05
 DRAWN BY: TAI
 CHECKED BY: PJM

JT-7
 08/10/2005 09:56:30 PM

F.A.I. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	270
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62302	(181B, ETC. 2324.6-1P1R-9			



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LEGEND
 [*,**] ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 [*,**] ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [*,**] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT

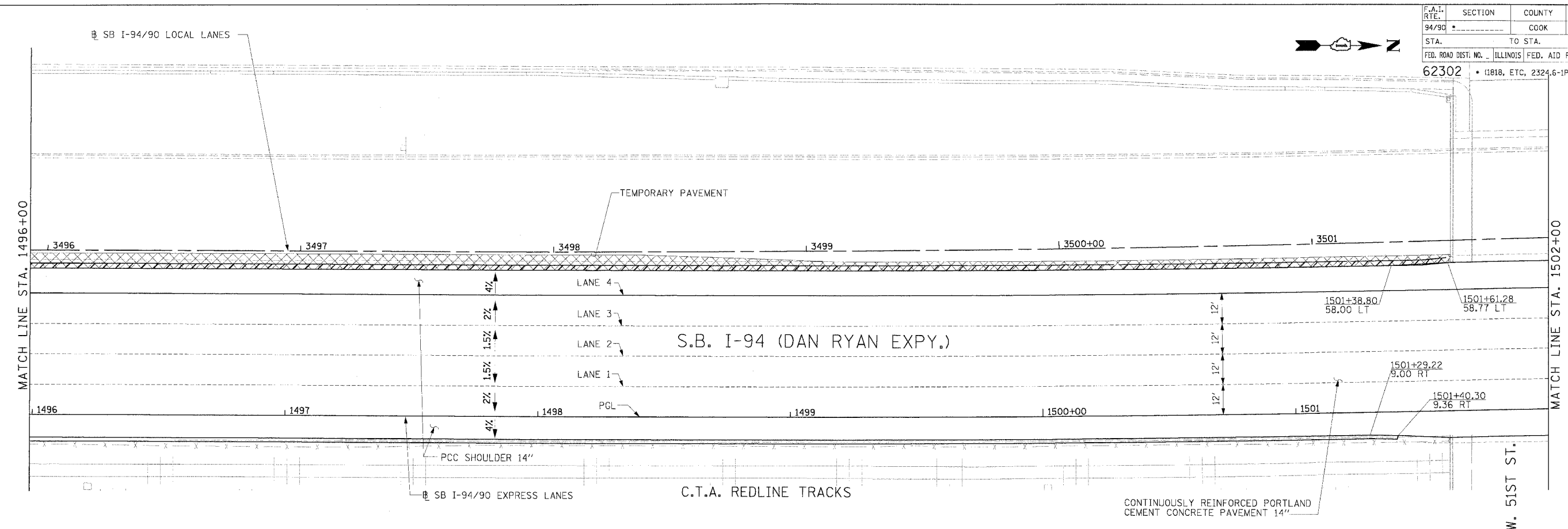
NOTE:
 1. PAVEMENT ELEVATIONS ALONG RAMPS, GOES AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

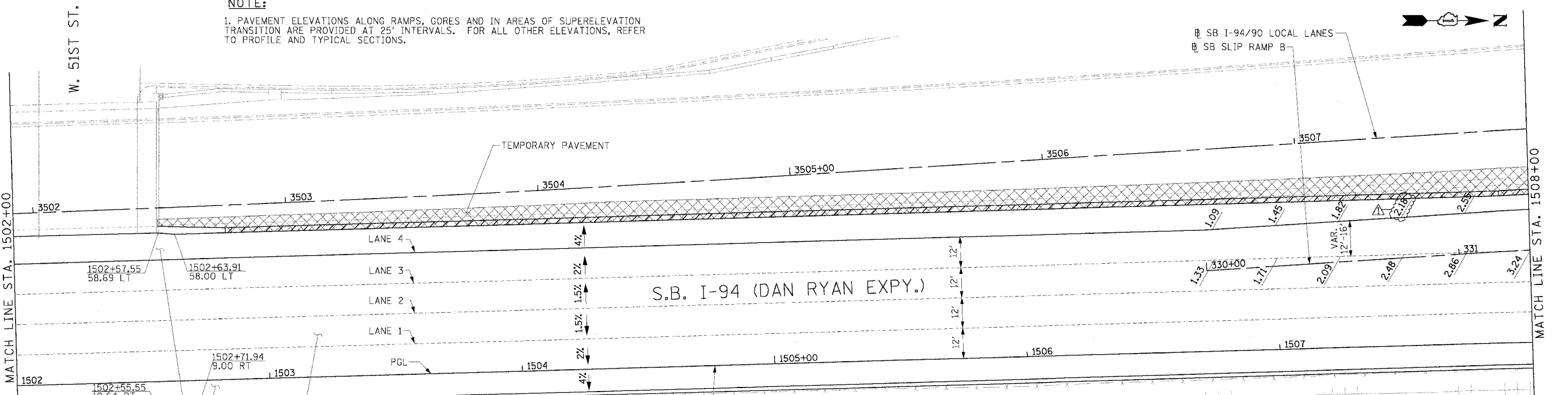
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1448+00 TO STA. 1460+00
 SCALE: 1"=20'
 DATE: 7/1/05
 DRAWN BY: TAI
 CHECKED BY: PJM

08/10/2005 02:57:04 PM

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	274
STA. 62302		TO STA. 62302		
FED. ROAD DIST. NO. 11818, ETC.		ILLINOIS FED. AID PROJECT 2324.6-1P/R-9		



NOTE:
 1. PAVEMENT ELEVATIONS ALONG RAMPS, GORES AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS. FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

LEGEND
 #.# ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 (#.#.#) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [#.#.#] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT

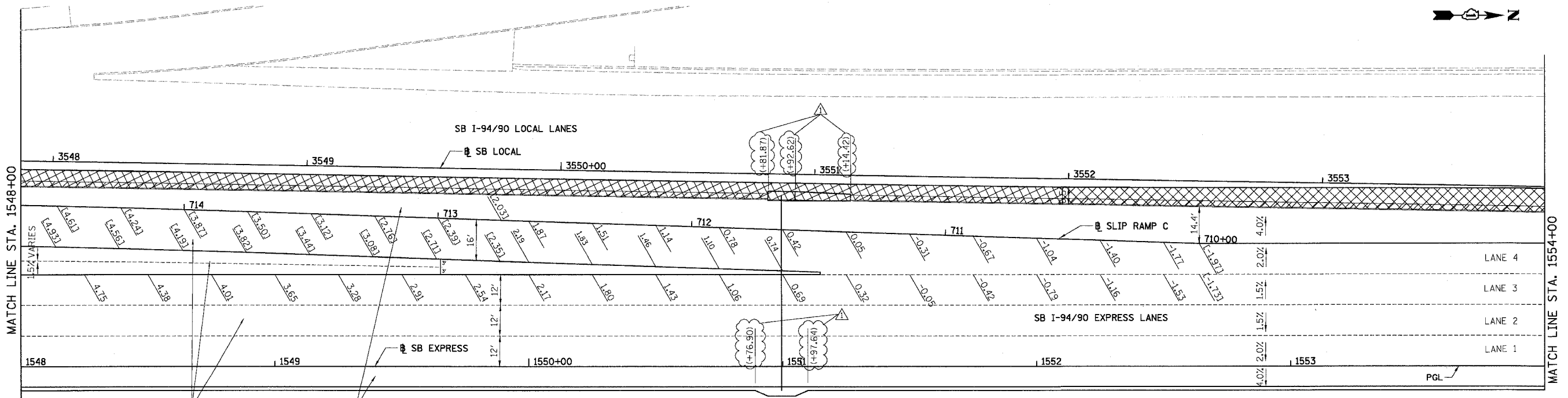
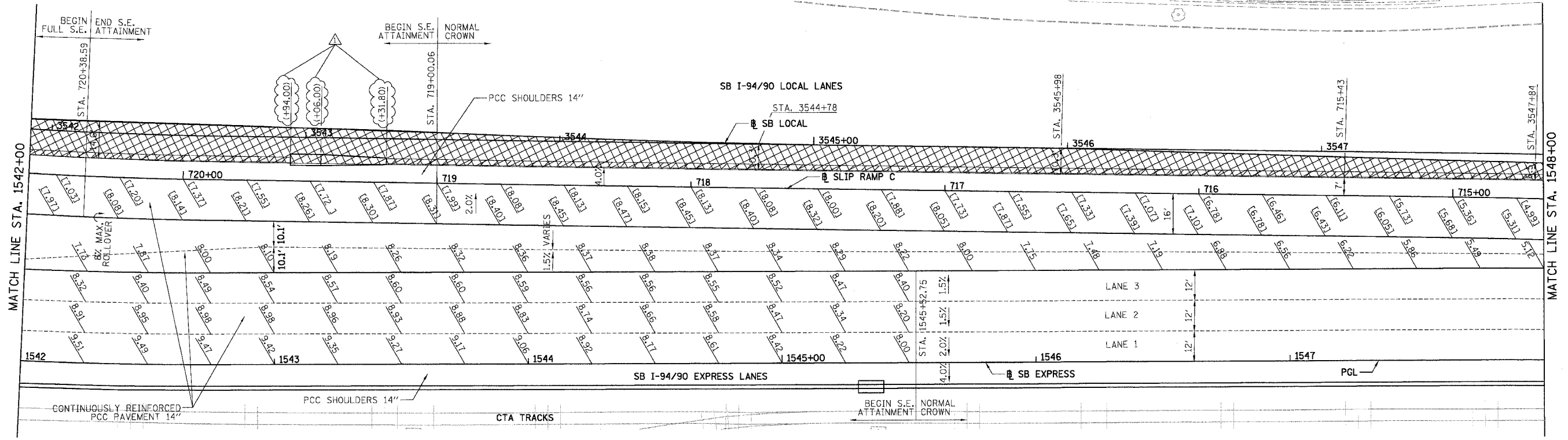
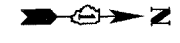
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1496+00 TO STA. 1508+00
 SCALE: 0" 10' 20' 30' 40'
 DATE: 7/7/05
 DRAWN BY: TAI
 CHECKED BY: PJM

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 PHONE: (312) 251-3000
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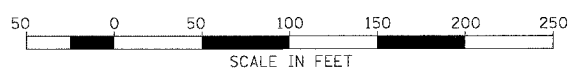
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	278
STA. 1542+00		TO STA. 1554+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62302		*1818, ETC, 2324.6-IPR-9		

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



LEGEND
 . ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 (*.***) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [**.**] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 [X] TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS



REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

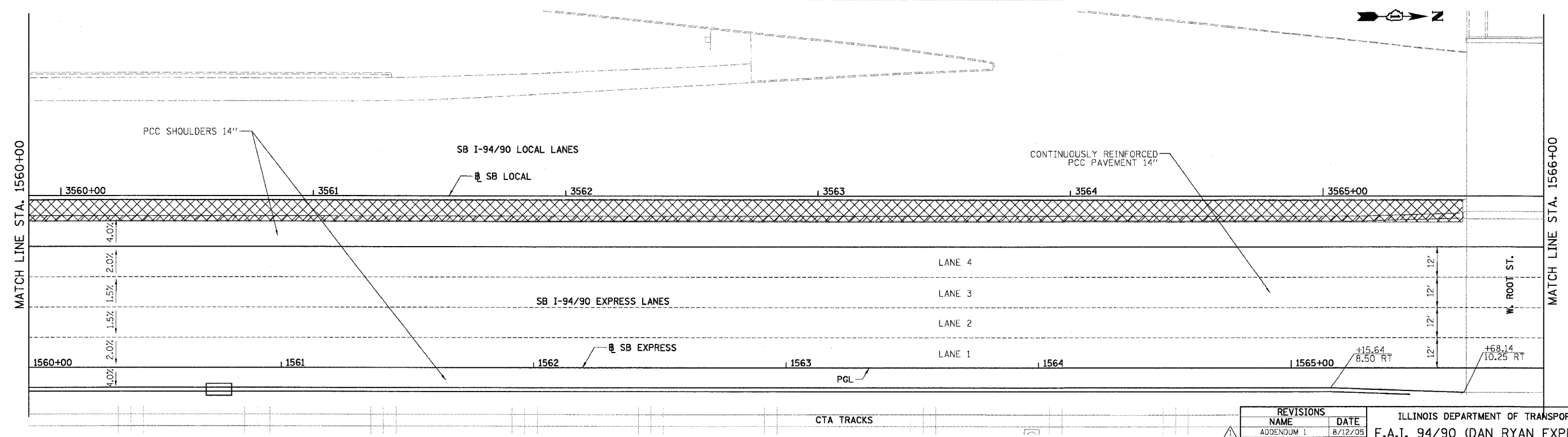
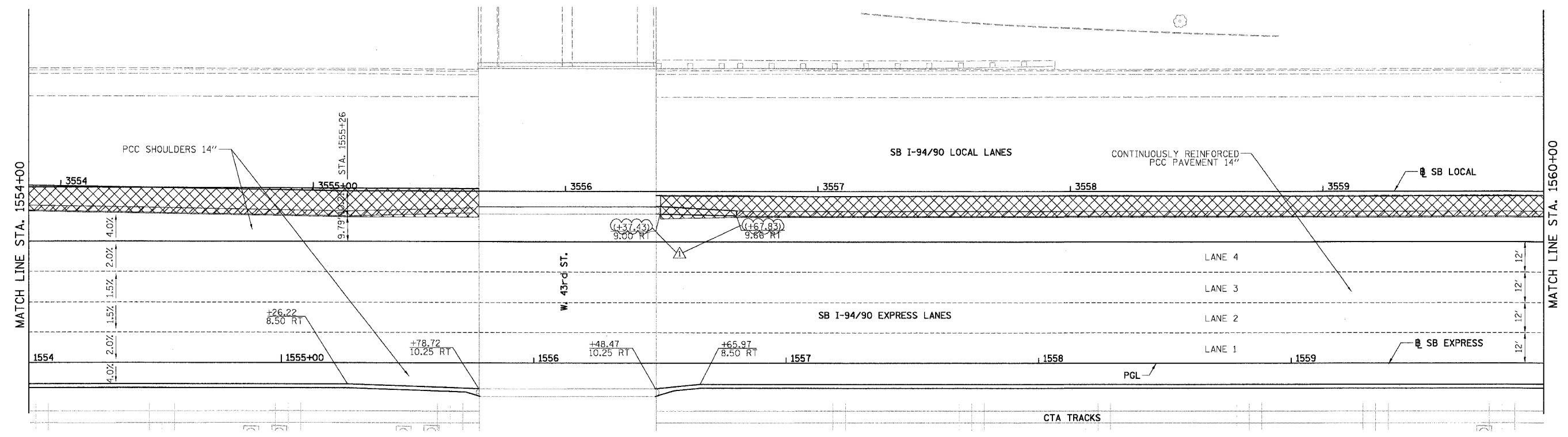
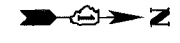
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1542+00 TO STA. 1554+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

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JT-16
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	279
STA. 1554+00		TO STA. 1566+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	*1818, ETC, 2324.6-1PR-9			

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND**
- ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (•••) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [•••] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

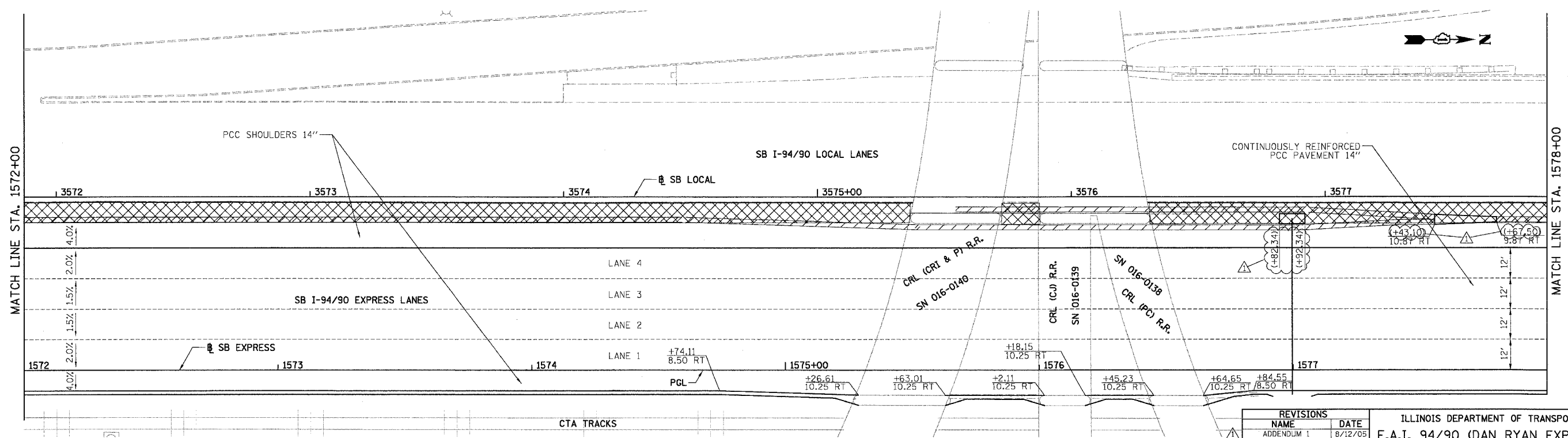
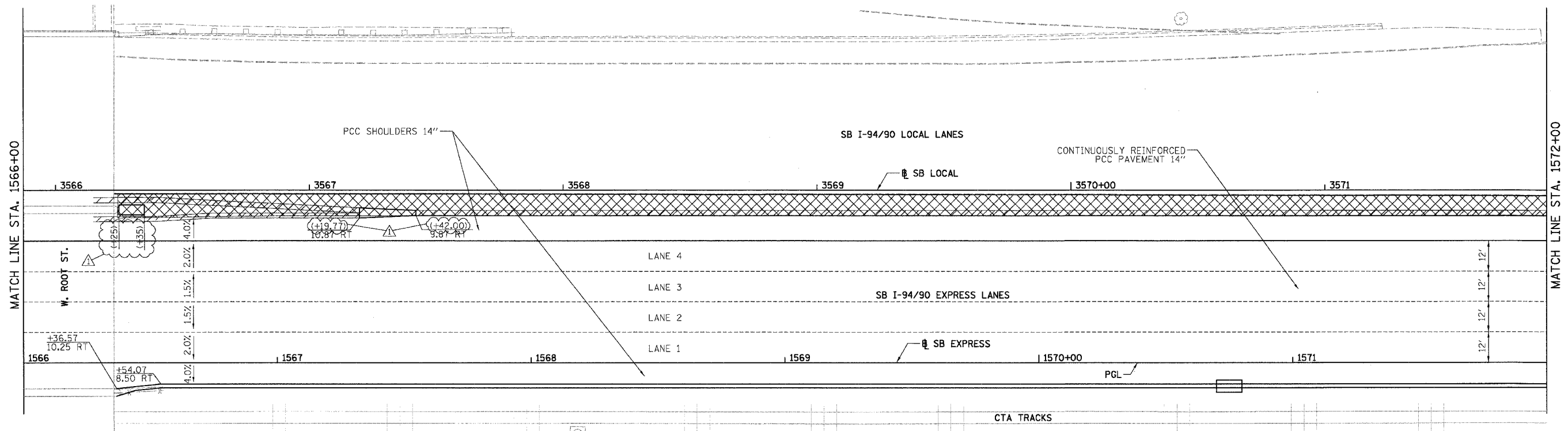
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1554+00 TO STA. 1566+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

BOWMAN, BARRETT & ASSOCIATES INC.
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JT-17
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 8/11/2005

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	280
STA. 1566+00		TO STA. 1578+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62302		*(1818, ETC, 2324.6-1PR-9		



LEGEND
 *** ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 (***) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 [*]** ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 [X] TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

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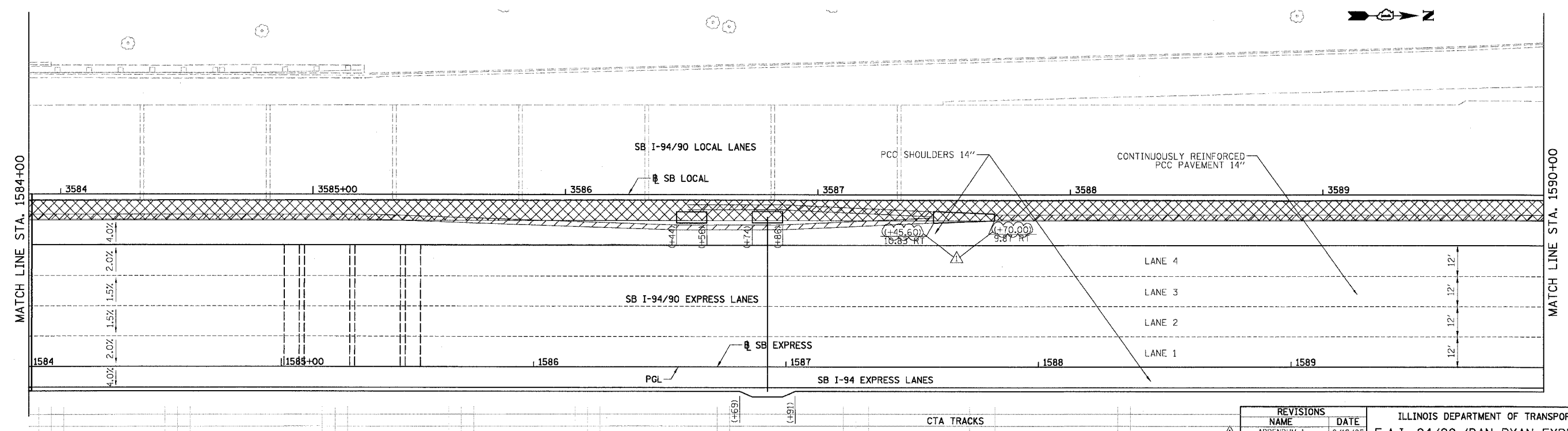
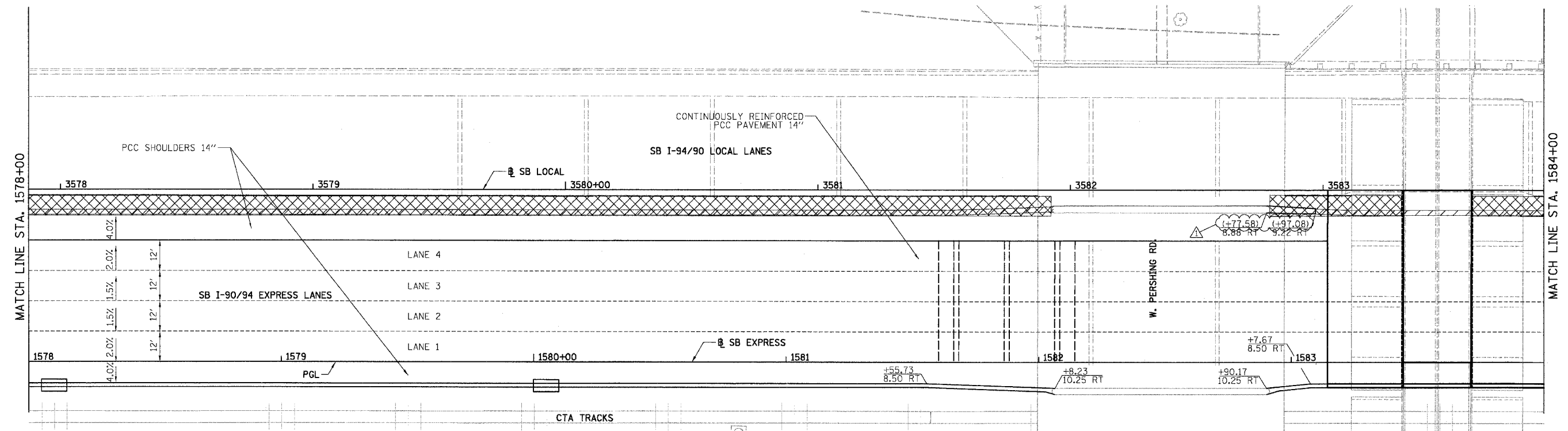
REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1566+00 TO STA. 1578+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

JT-18
 2:38:52 PM
 8/11/2005

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	281
STA. 1578+00		TO STA. 1590+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	*1818, ETC, 2324.6-1PR-9			

NOTE:
 1. PAVEMENT ELEVATIONS ALONG CORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND
- *.*. ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (*.*.) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [*.*.] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

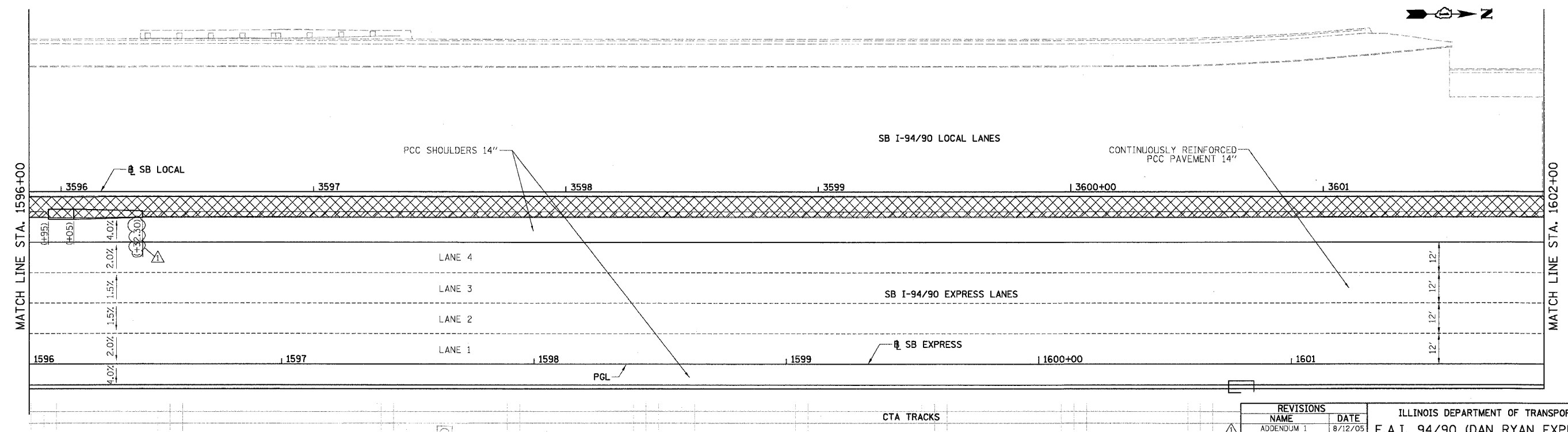
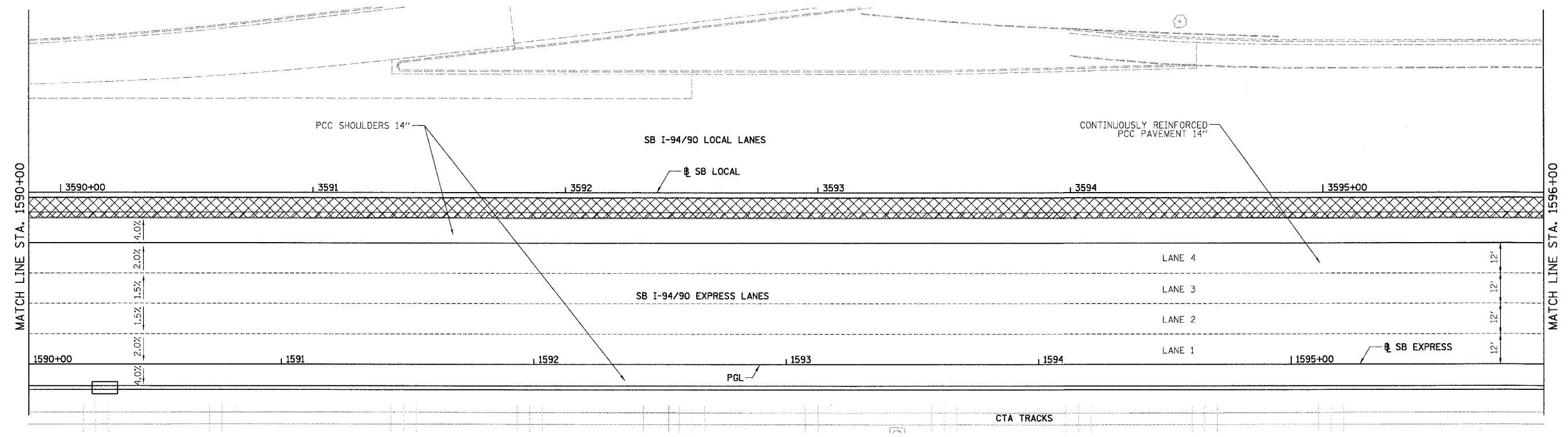
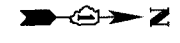
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1578+00 TO STA. 1590+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

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JT-19
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 8/11/2005

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	282
STA. 1590+00		TO STA. 1602+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62302		*1818, ETC, 2324,6-1PR-9		

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND**
- ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (•••) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [•••] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

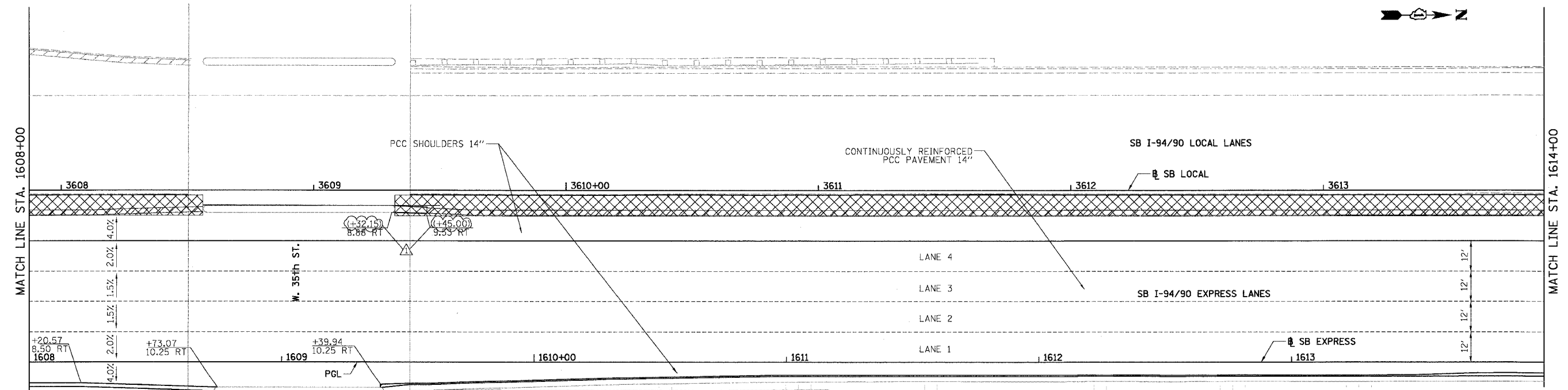
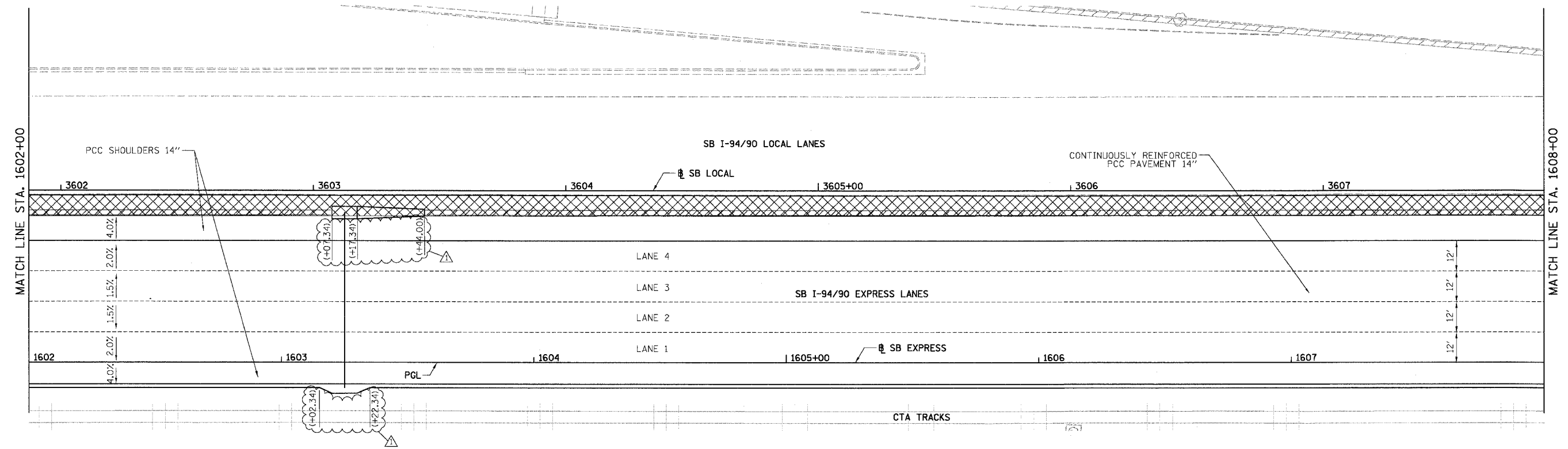
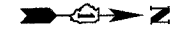
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1590+00 TO STA. 1602+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

BOWMAN, BARRETT & ASSOCIATES INC.
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JT-20
 2-35-08 PM
 8/11/2005

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	283
STA. 1602+00		TO STA. 1614+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	*11818, ETC. 2324.6-IPR-9			

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND**
- ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (•••) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [•••] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

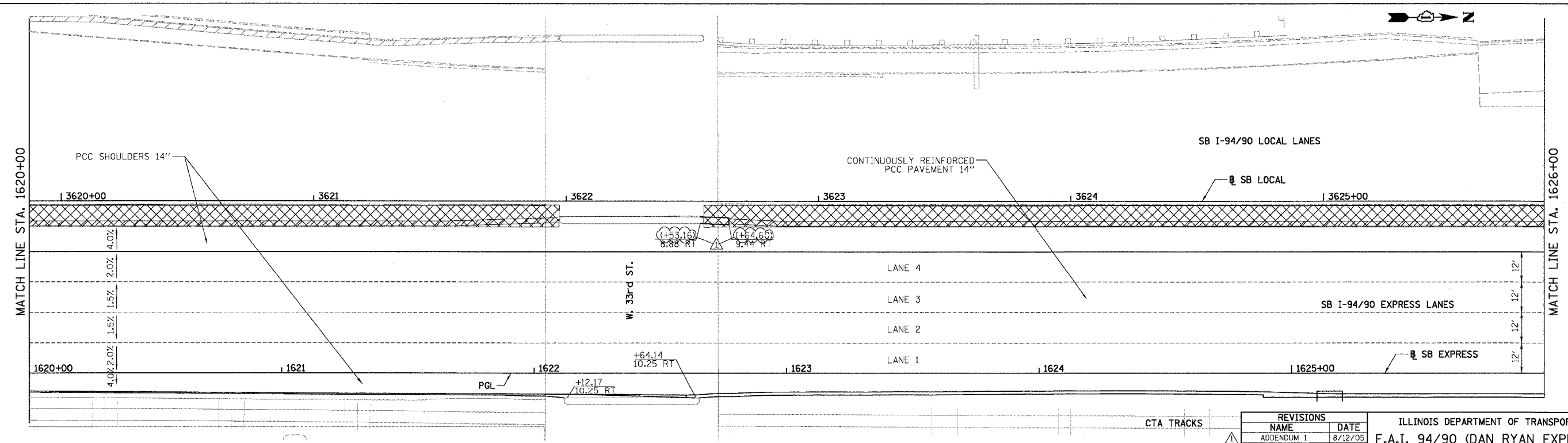
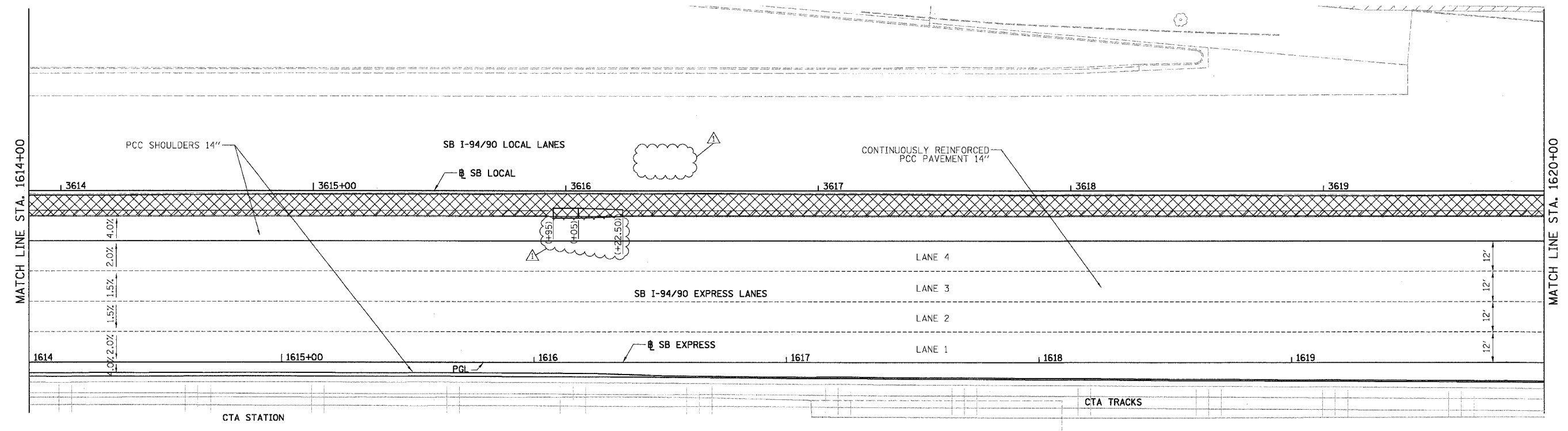
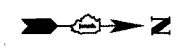
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1602+00 TO STA. 1614+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

BOWMAN, BARRETT & ASSOCIATES INC.
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JT-21
 2-10/4 PM
 8/11/2005

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	284
STA. 1614+00		TO STA. 1626+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	*1818, ETC, 2324.6-1PR-9			

NOTE:
 1. PAVEMENT ELEVATIONS ALONG CORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND
- ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (•••) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [•••] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

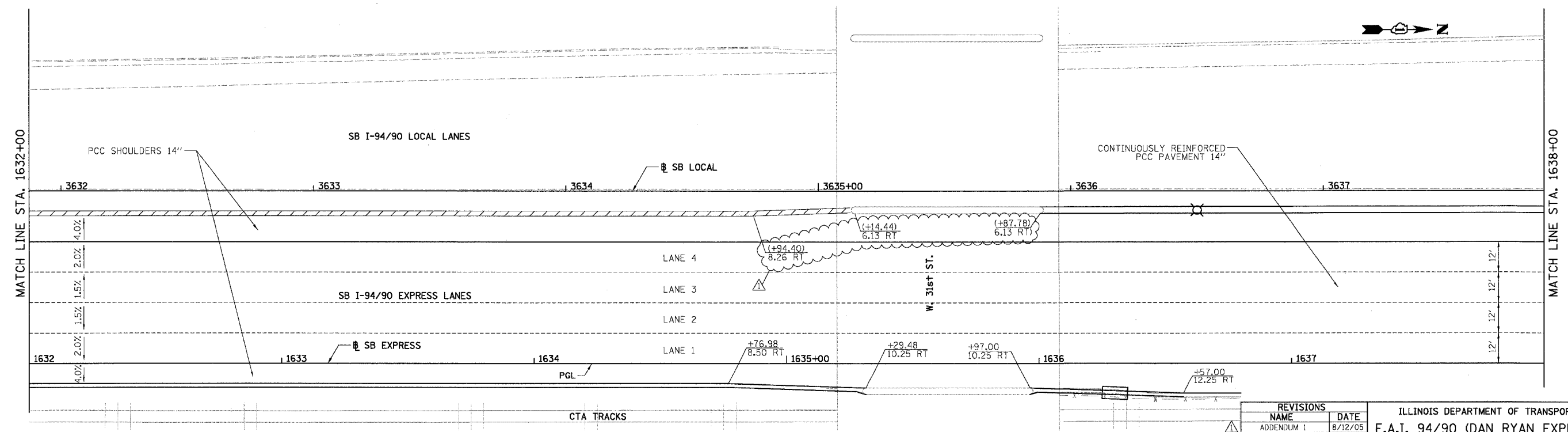
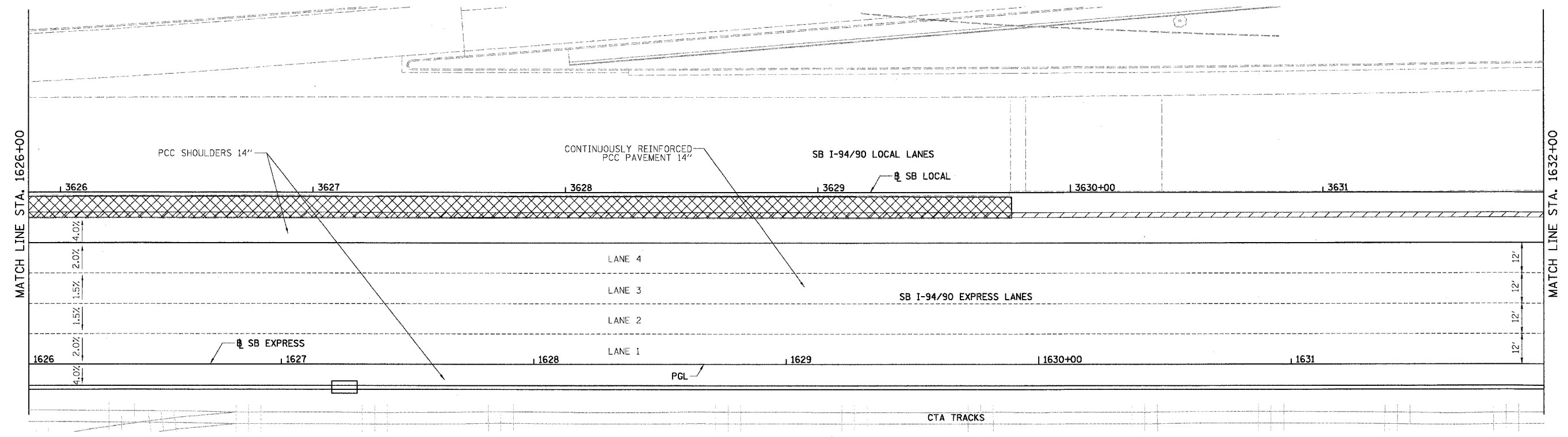
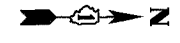
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1614+00 TO STA. 1626+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

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

JT-22
 2/10/04 PM
 8/11/2005

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	285
STA. 1626+00		TO STA. 1638+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	*1818, ETC, 2324.6-1PR-9			

NOTE:
 1. PAVEMENT ELEVATIONS ALONG GORES, RAMPS, AND IN AREAS OF SUPERELEVATION TRANSITION ARE PROVIDED AT 25' INTERVALS, FOR ALL OTHER ELEVATIONS, REFER TO PROFILE AND TYPICAL SECTIONS.



- LEGEND
- *** ELEVATION STATIONED OFF OF SB I-94/90 EXPRESS LANES
 - (***) ELEVATION STATIONED OFF OF SB I-94/90 LOCAL LANES
 - [***] ELEVATION STATIONED OFF OF SLIP RAMP ALIGNMENT
 - XXXXX TEMPORARY PAVEMENT (INTERSTATE) / SHOULDERS

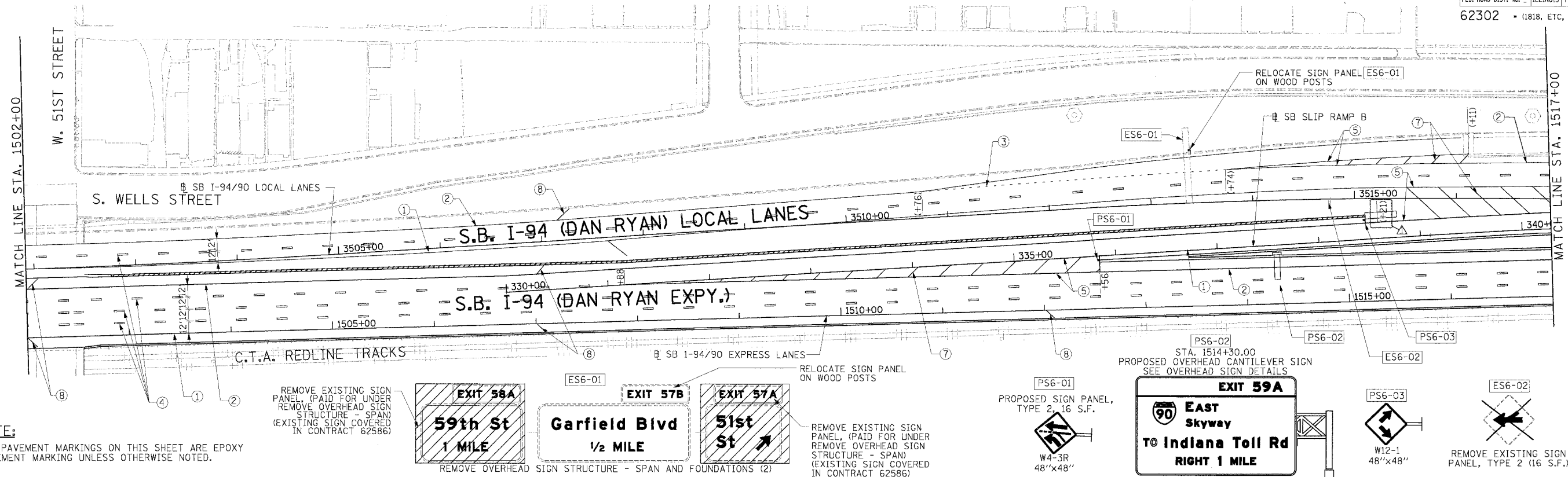
REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 PAVEMENT JOINTING AND ELEVATION PLAN
 SOUTHBOUND STA. 1626+00 TO STA. 1638+00
 SCALE: 1"=20'
 DATE: 07/07/05
 DRAWN BY: TER
 CHECKED BY: JDC

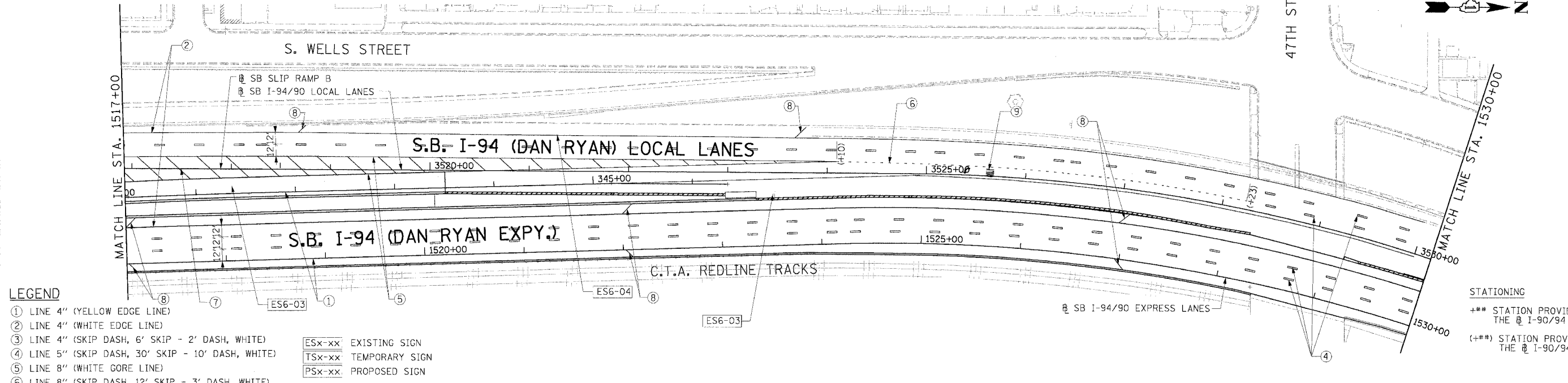
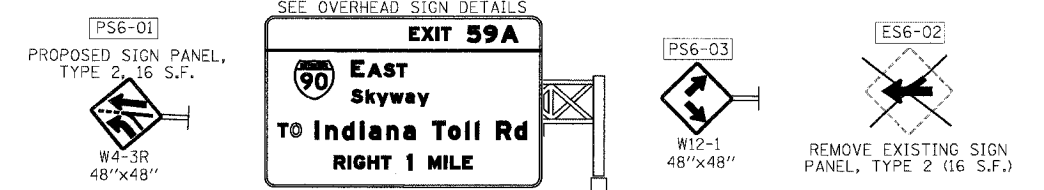
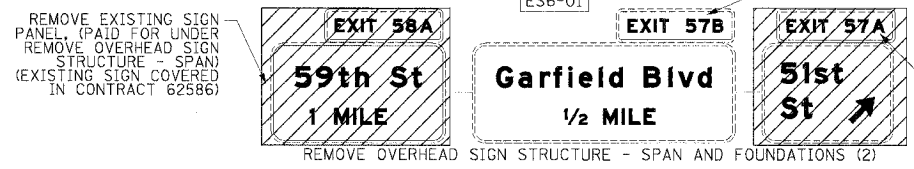
BOWMAN, BARRETT & ASSOCIATES INC.
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JT-23
 2-11/2005

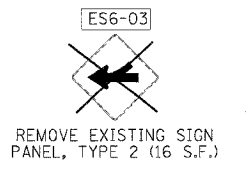
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	292
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
62302		(1818, ETC. 2324.6-1PR-9		



NOTE:
ALL PAVEMENT MARKINGS ON THIS SHEET ARE EPOXY PAVEMENT MARKING UNLESS OTHERWISE NOTED.



- LEGEND**
- ① LINE 4" (YELLOW EDGE LINE)
 - ② LINE 4" (WHITE EDGE LINE)
 - ③ LINE 4" (SKIP DASH, 6' SKIP - 2' DASH, WHITE)
 - ④ LINE 5" (SKIP DASH, 30' SKIP - 10' DASH, WHITE)
 - ⑤ LINE 8" (WHITE GORE LINE)
 - ⑥ LINE 8" (SKIP DASH, 12' SKIP - 3' DASH, WHITE)
 - ⑦ LINE 12" (DIAGONAL, 30' C-C)
 - ⑧ LINE 12" (DIAGONAL, 500' C-C)
 - ⑨ LETTERS AND SYMBOLS
- ESx-xx EXISTING SIGN
 TSx-xx TEMPORARY SIGN
 PSx-xx PROPOSED SIGN



Edwards AND Kelcey
ONE NORTH FRANKLIN CHICAGO, IL 60606
PHONE: (312) 251-3000
FAX: (312) 251-3015
WEB: WWW.EKCORP.COM

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
AND SIGNING PLAN
SOUTHBOUND STA. 1502+00 TO STA. 1530+00
SCALE: 1"=50'
DATE: 7/1/05
DRAWN BY: TAI
CHECKED BY: PJM

PMK-6
08/10/2005 03:27:55 PM

SIGN DETAIL
1.75

SIGN NUMBER	name
WIDTH x HGT.	21'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ML1	84	77.5	36	36
ABDOWN	111	12	30	30.8

Panel Style: guide_exp_advance_sas1
Dimensions are in inches/teenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE						
E	X	I	T	S	9	A					EM						
136.3	147.6	160.4	165.3	169.1	204.1	220					66.7	12,15					
E	A	S	T								EM						
136	151	165.5	177.5								50.3	(15,12) △					
S	k	y	w	a	y						EM						
136	144.9	151.6	159.5	169	176.5						46.8	36 △					
T	O	I	n	d	I	a	n	a	T	o	I	R	d				
12	22.5	46.7	50.4	71.5	87.8	95.5	112.1	127.3	137.4	153.4	165.2	181.7	192.8	195.8	211.8	226.7	
																225.9	10,1612 △

SIGN DETAIL
1.75

SIGN NUMBER	name
WIDTH x HGT.	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ML1	84	77.5	36	36
ABDOWN	111	12	30	30.8

Panel Style: guide_exp_advance_sas1
Dimensions are in inches/teenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
E	X	I	T	6	0	C					EM	
15.6	24.9	37.7	42.2	69	84.1	100.5					98.5	12,15
7	9	t	h	S	t						EM	
14.8	30.8	47.8	66.8	71.1	87	103.2					94.5	1612
I	M	I	L	E							EM	
33.4	63.9	67	72.4	83.7							59.1	(15,12) △

SIGN DETAIL
1.75

SIGN NUMBER	name
WIDTH x HGT.	21'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ML1	84	77.5	36	36
ABDOWN	111	12	30	30.8

Panel Style: guide_exp_advance_sas1
Dimensions are in inches/teenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE						
E	X	I	T	S	9	A					EM						
136.3	147.6	160.4	165.3	169.1	204.1	220					66.7	12,15					
E	A	S	T								EM						
136	151	165.5	177.5								50.3	(15,12) △					
S	k	y	w	a	y						EM						
136	144.9	151.6	159.5	169	176.5						46.8	36 △					
T	O	I	n	d	I	a	n	a	T	o	I	R	d				
16	25.5	48.7	53.4	68.5	84.8	92.8	109.1	124.8	134.4	150.4	165.2	180.7	189.8	192.8	208.8	223.7	
R	I	G	H	T	1	M	I	L	E							219.9	10,1612 △
64.4	67	72.5	85.1	97.2	121	158	172.1	177.5	188.8							143.2	(15,12) △

SIGN DETAIL
1.75

SIGN NUMBER	name
WIDTH x HGT.	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ML1	84	77.5	36	36
ABDOWN	111	12	30	30.8

Panel Style: guide_exp_advance_sas1
Dimensions are in inches/teenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
E	X	I	T	6	0	A					EM	
15.6	24.9	37.7	42.2	69	84.1	100.7					102.2	12,15.1
7	9	t	h	S	t						EM	
14.8	30.8	47.8	66.8	71.1	87.1	103.2					96.5	1612
1	M	I	L	E							EM	
24.7	61.7	75.8	81.2	92.5							78.5	(15,12) △

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

SIGN DETAIL
1/75

SIGN NUMBER	name
WIDTH x HGT.	4'-6" x 4'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	X	Y	WID	HT

Panel Style: regulatory.asi
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
A	C	C	I	D	E	N	T			D		
8	14.2	19.9	24.5	26.9	32.3	37.1	42.3			37.9	6	
I	N	V	E	S	T	I	G	A	T	I	O	N
3.4	4.7	9	13.8	17.7	22.1	26	27.3	31.6	36.7	40.7	42	46.5
S	I	T	E							D		
19	24.5	26.5	31.3							16	6	
M	I	L	E							D		
7.3	20.8	25.9	28.2	42						29.4	9.8	

SIGN DETAIL
1/75

SIGN NUMBER	name
WIDTH x HGT.	21'-0" x 36'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ML1	54	77.5	36	86

Panel Style: guide_exp_advance.asi
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE					
E	X	I	T	S	B	A				EM						
136.3	147.6	160.4	165.3	189.1	204.1	220				95.7	12.15					
E	A	S	T							EM						
125	147	161.9	173.5							50.8	16.12					
S	k	y	w	a	y					EM						
133	141	147.6	155.5	165	172.4					45.8	8.6					
T	O	I	n	d	i	a	n	a	T	o	I	R	d			
16	25.5	43.7	53.4	68.5	84.8	92.8	109.1	124.3	134.4	150.4	165.2	180.7	189.8	192.8	208.8	223.7
R	I	G	H	T	I	M	I	L	E							
63.2	75.8	81.2	90.9	105.9	123.7	149.2	163.3	168.7	190							

SIGN DETAIL
1/75

SIGN NUMBER	name
WIDTH x HGT.	4'-6" x 4'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	X	Y	WID	HT

Panel Style: regulatory.asi
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
A	C	C	I	D	E	N	T			D		
8	14.2	19.9	24.5	26.9	32.3	37.1	42.3			37.9	6	
I	N	V	E	S	T	I	G	A	T	I	O	N
3.4	4.7	9	13.8	17.7	22.1	26	27.3	31.6	36.7	40.7	42	46.5
S	I	T	E							D		
19	24.5	26.5	31.3							16	6	
M	I	L	E							D		
7.3	20	25.1	27.4	42.3						27.8	9.8	

SIGN DETAIL
1/75

SIGN NUMBER	name
WIDTH x HGT.	14'-0" x 36'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.8"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Orange
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	X	Y	WID	HT
ML1	42	40	36	88

Panel Style: construction_guide.asi
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

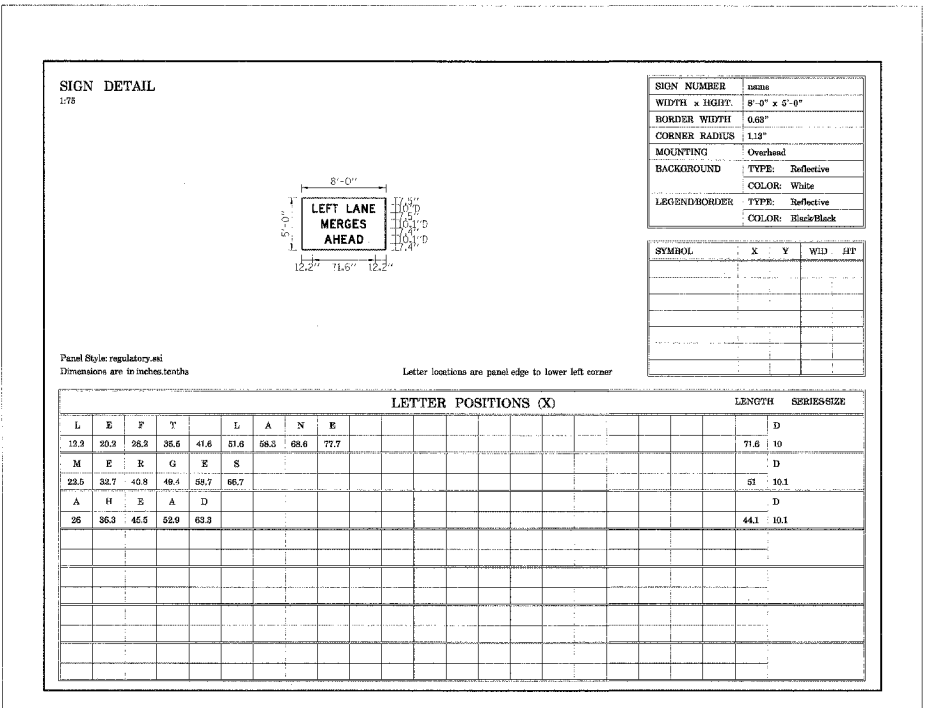
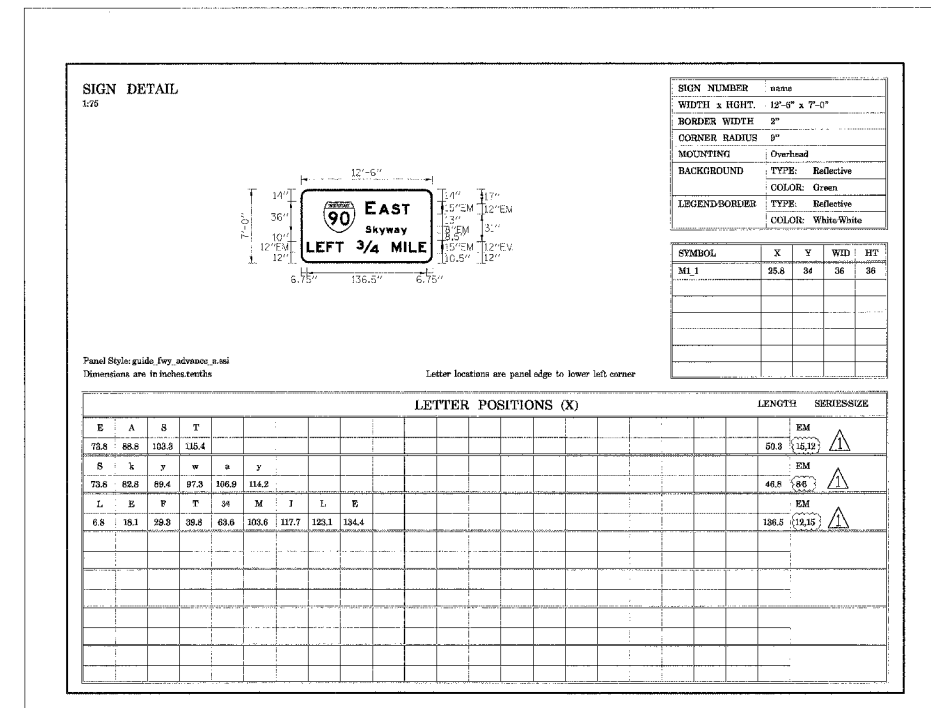
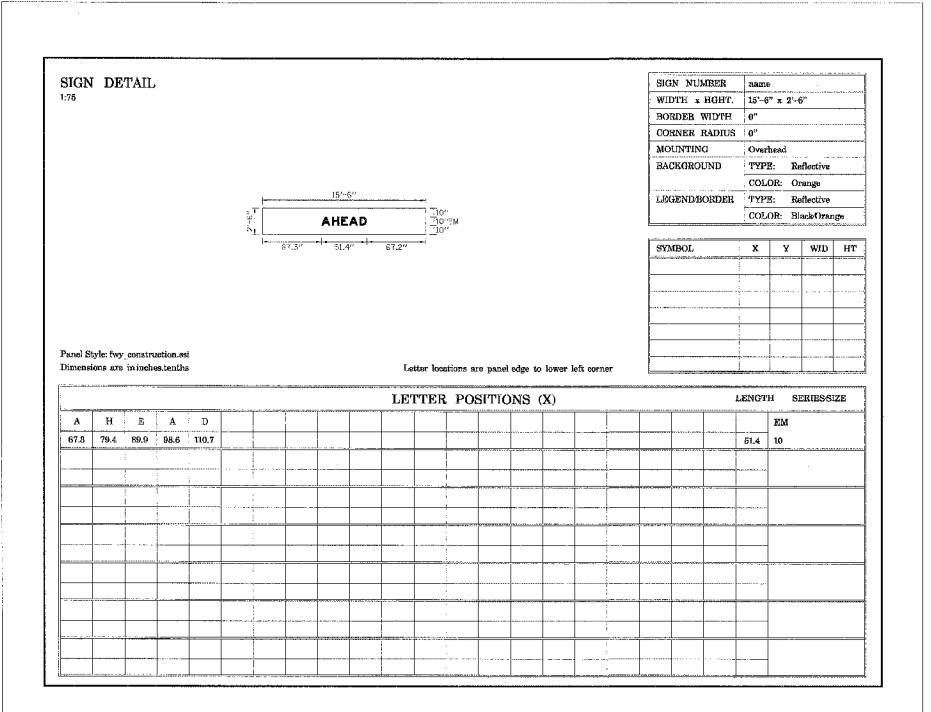
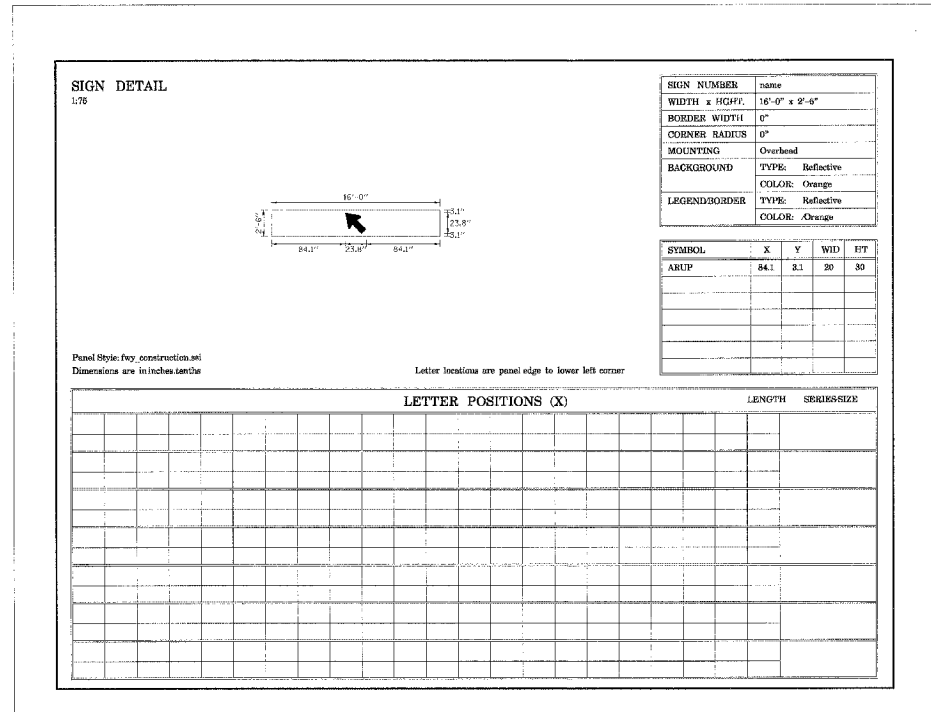
LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	A	S	T							EM	
90	100	119.5	121.5							50.8	15.12
A	L	L		L	A	N	E	S		EM	
14.5	23.8	45.9	60.9	76.6	89.5	105.5	120.7	140.7		139.2	16

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
SIGN PANEL DETAILS

SCALE: NONE
DATE: 7/7/05

DRAWN BY: GG
CHECKED BY: PJM



Edwards AND Kelcey
ONE NORTH FRANKLIN
CHICAGO, IL 60606
PHONE: (312) 251-3000
FAX: (312) 251-3015
WEB: WWW.EKCORP.COM

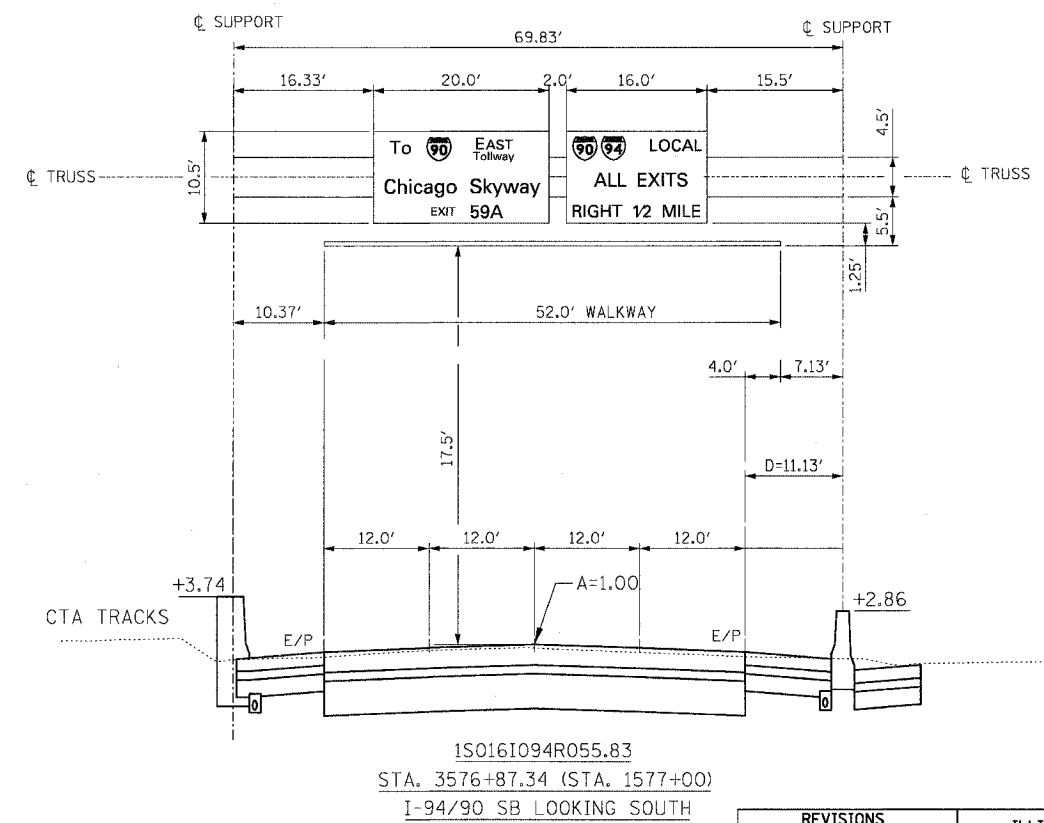
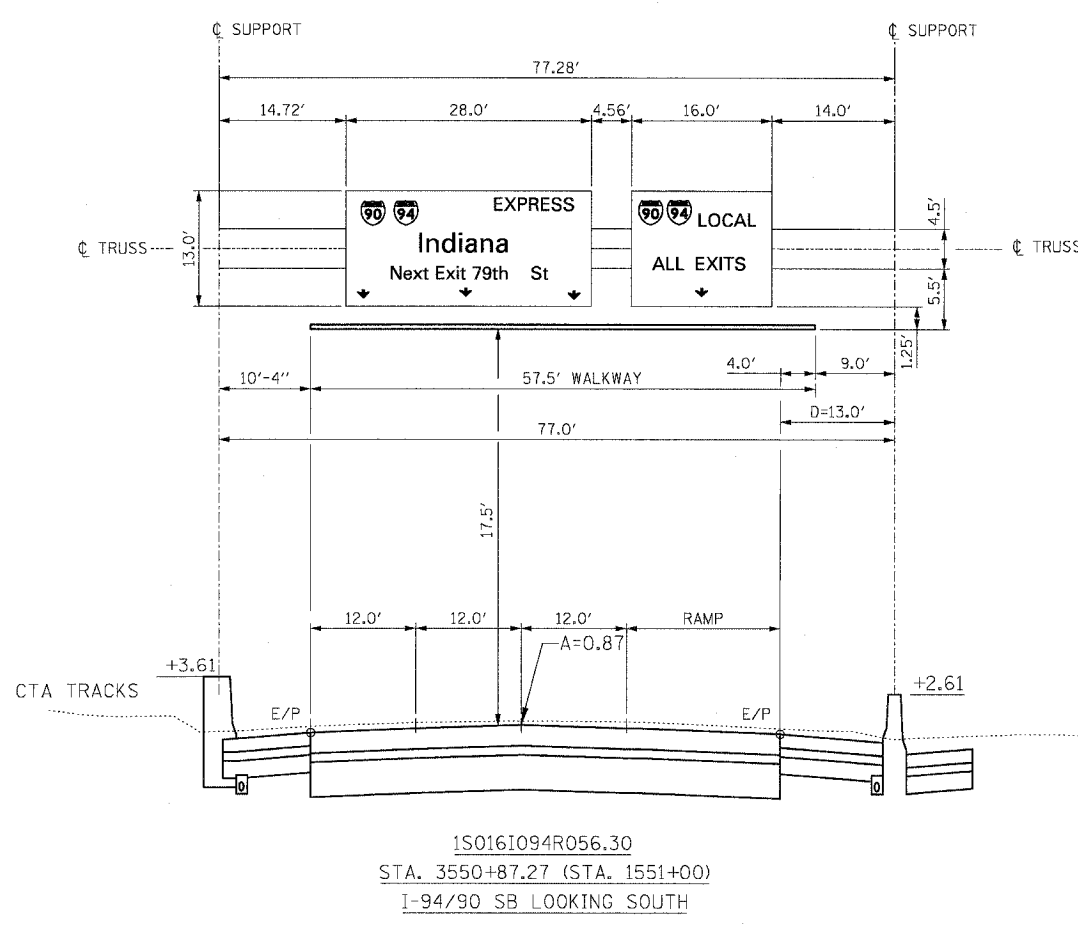
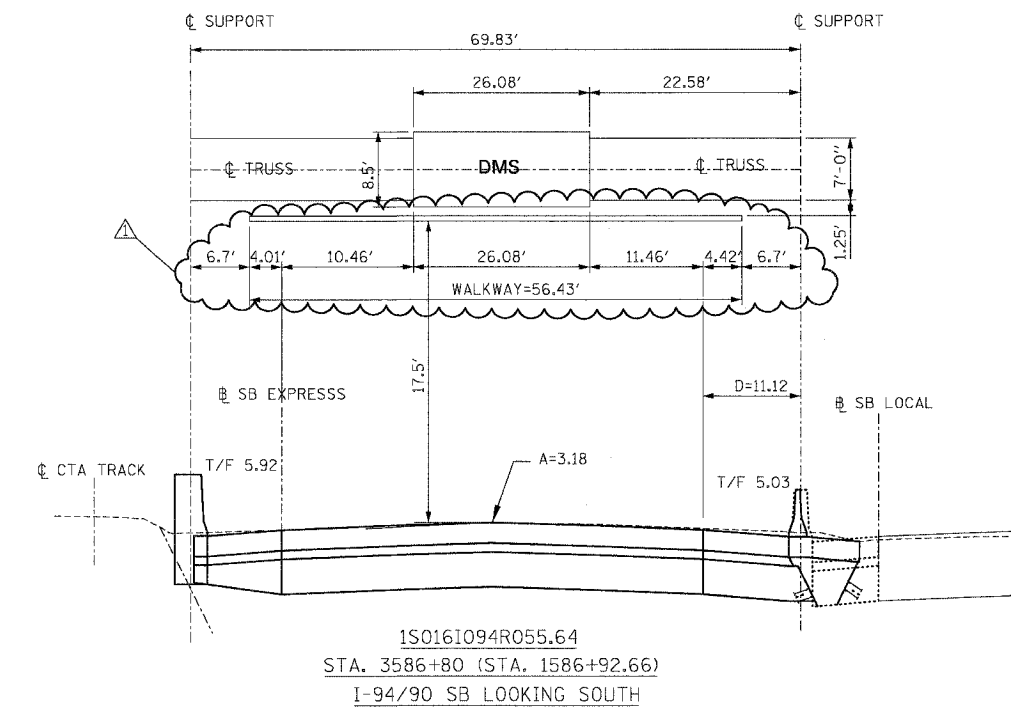
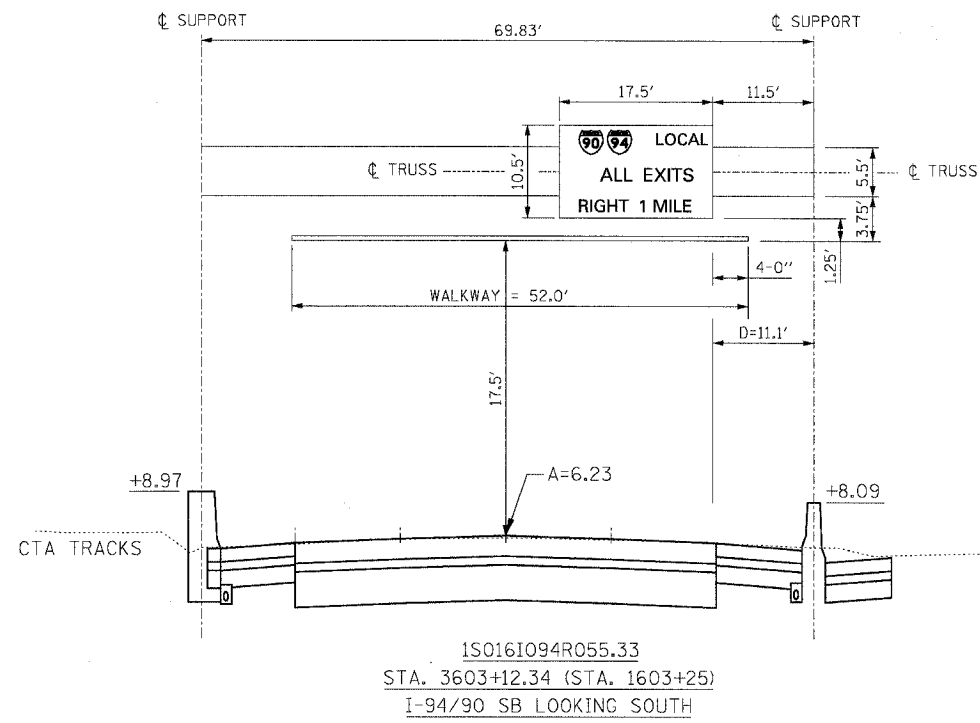
REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
SIGN PANEL DETAILS

SCALE: NONE
DATE: 7/7/05
DRAWN BY: GG
CHECKED BY: PJM

14815.ctb 15:00:15 08/10/2005 05:49:07 PM
 SGN-03

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	303
TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62302 * (1818, ETC, 2324.6-1) PR-9				



REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Evanston, Illinois 60223-1369

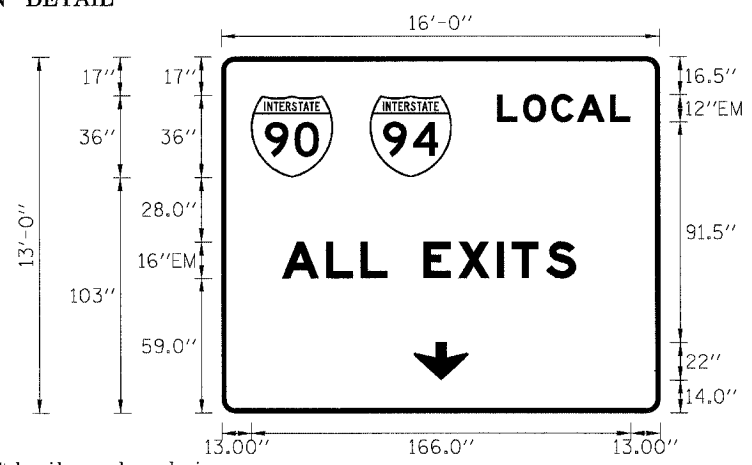
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
SIGN PLACEMENT DETAILS

SCALE: NONE
DATE: 07/07/05
DRAWN BY: MD
CHECKED BY: MSA

8/10/2005 11:39:25 PM

F.A.I. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	304
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62302		*1818, ETC, 2324.6-1P/R-9		

SIGN DETAIL
1:100



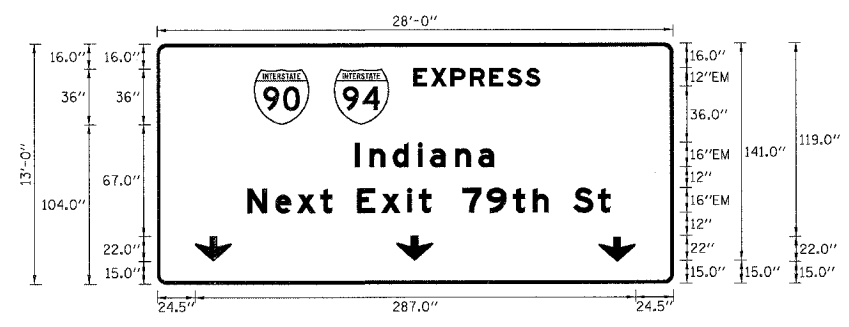
SIGN NUMBER	1S0161094R056.32
WIDTH x HGHT.	16'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
MI_1	12.9	103.1	36	36
MI_1	64.9	103	36	36
ARROW	82	14.2	32	22

Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE
L	O	C	A	L							EM12
120.9	132.2	144.6	155.8	170.3						58.2	
A	L	L	E	X	I	T	S				EM16
18.6	38	53	64.8	80.8	95.8	112.9	119.4	134.4		128.8	

SIGN DETAIL
1:75



SIGN NUMBER	1S0161094R056.32
WIDTH x HGHT.	28'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
MI_1	63.1	103.7	36	36
MI_1	115.2	103.7	36	36
ARROW	24.5	15.0	32	22
ARROW	155.7	15.0	32	22
ARROW	287.5	15.0	32	22

Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE							
E	X	P	R	E	S	S					EM12							
167.2	178.5	191.3	203.9	216.6	227.9	239.9				82.5								
I	n	d	i	a	n	a					EM1612							
128.8	138.5	153.6	169.9	177.9	194.2	209.4				90.7								
N	e	x	t	E	x	i	t	7	9	t	h	S	t		EM1612			
58.7	77	90.8	106.2	114.2	130.2	146	162.9	170.5	178.6	198.7	214.8	231.7	244.8	255	271	287.1	236.5	

SIGN DETAIL
1:100



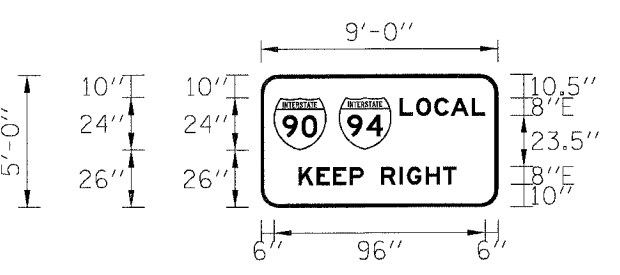
SIGN NUMBER	1S0161094R056.83
WIDTH x HGHT.	20'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
MI_1	78.4	75.7	36	36

Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE				
E	A	S	T								EM15,EM12				
129.1	142	156.4	168.5							48.2					
T	O										EM10				
28.9	43.9									28.3					
T	o	l	l	w	a	y					EM107.5				
128.4	137.6	147.3	153	157.8	169.7	178.8				58.5					
C	h	i	c	a	g	o	S	k	y	w	a	y		EM1612	
16.7	34.7	51	59	72.9	88	103.1	113.7	129.6	147.6	160.9	176.7	195.7	210.4	206.6	
E	X	I	T	5	9	A									EM12,EM15.1
73.8	85.1	97.9	102.8	126.6	141.7	157.7								99	

SIGN DETAIL
1:100



SIGN NUMBER	TS02-01
WIDTH x HGHT.	9'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	Groundmount
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	X	Y	WID	HT
MI_1	6	26	24	24
MI_1	35.6	26	24	24

Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIESIZE
L	O	C	A	L							E8
63.4	70.9	79.2	86.7	96.3						38.8	
K	E	E	P		R	I	G	H	T		E8
17.3	25.4	33	40.5	46.9	54.9	63.3	66.7	75.2	83.2	71.8	

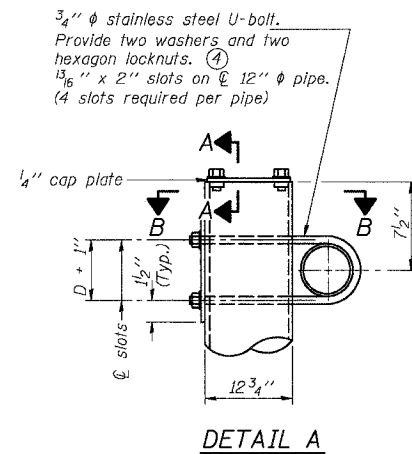
REVISIONS		DATE
NAME		
ADDENDUM 1		8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
SIGN PANEL DETAILS
SCALE: NONE
DATE: 07/07/05
DRAWN BY: MD
CHECKED BY: MSA

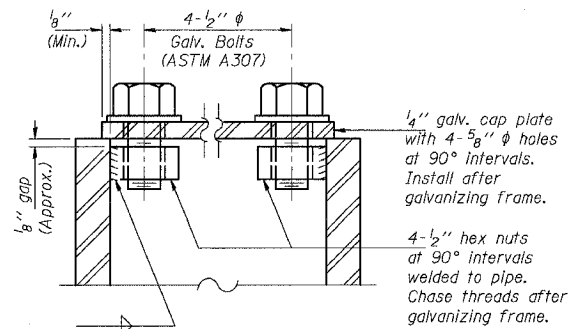


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
94/90	*	COOK	598	315
FED. ROAD DIST. NO. 1		ALIGNMENT	FED. AID PROJECT	
62302		*1818, ETC, 2324.6-1PIR-9		

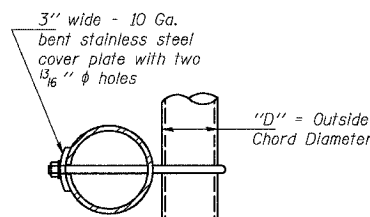


DETAIL A

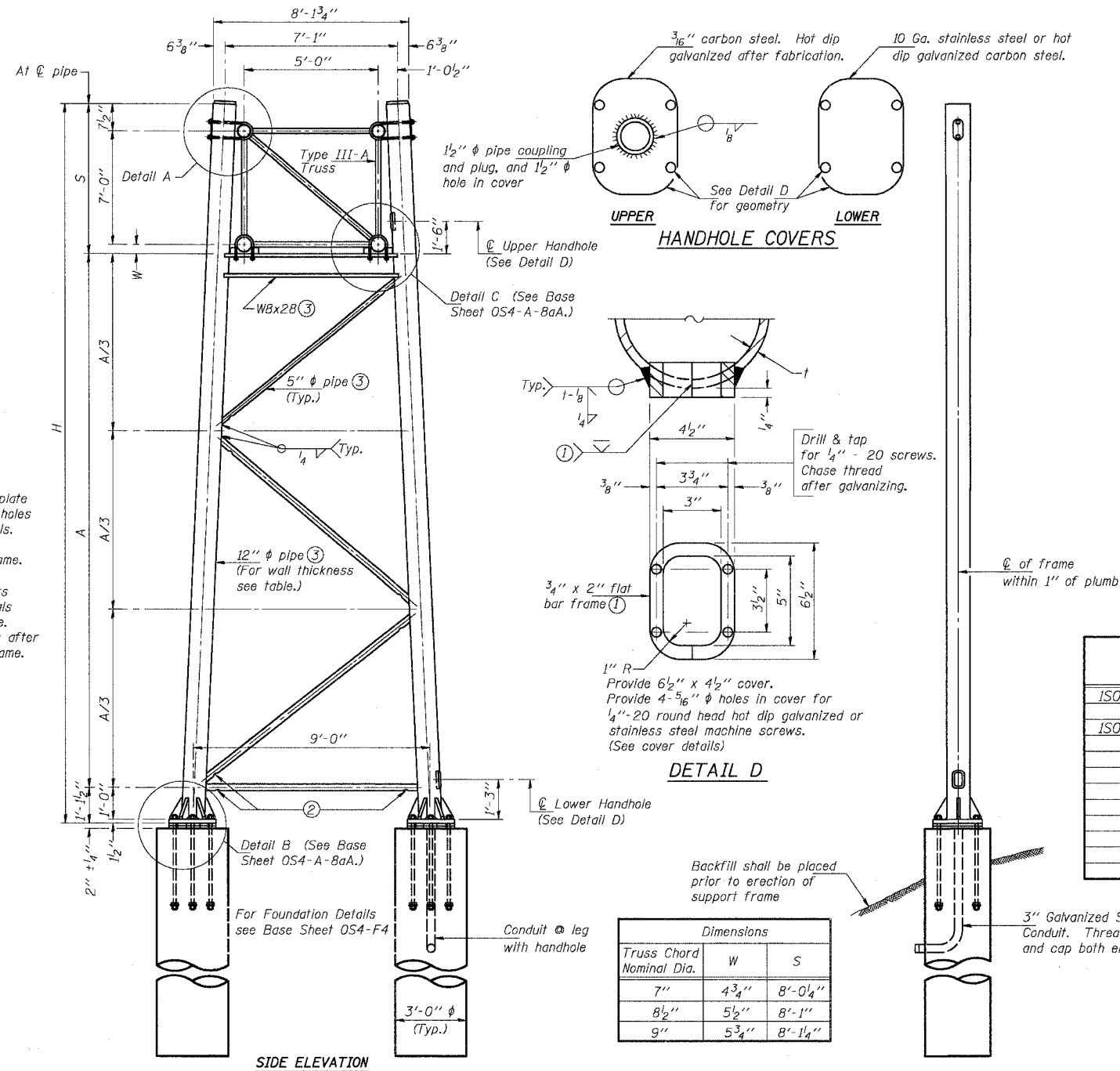


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

DETAIL D

Truss Chord Nominal Dia.	Dimensions	
	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS
(12" ϕ Pipe-Type III-A Truss)

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 \sqrt{in} or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred. (Typ.)
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Pipe Wall Thickness	H	A
		Left	Right			
ISO161094R055.64	3586+80		X	0.33	25.11'	15.96'
ISO161094R055.64	3586+80	X		0.33	24.22'	15.07'

NUMBER	REVISION	DATE

DESIGNED	SL
CHECKED	AS
DRAWN	MD
CHECKED	SL

EXAMINED	
PASSED	

OS4-A-8a 11/1/2002

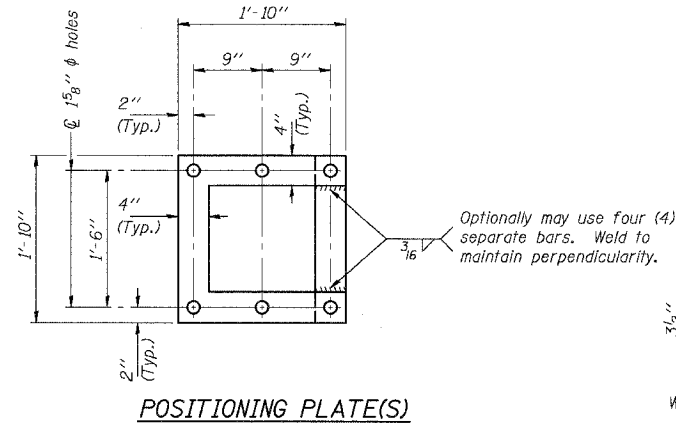
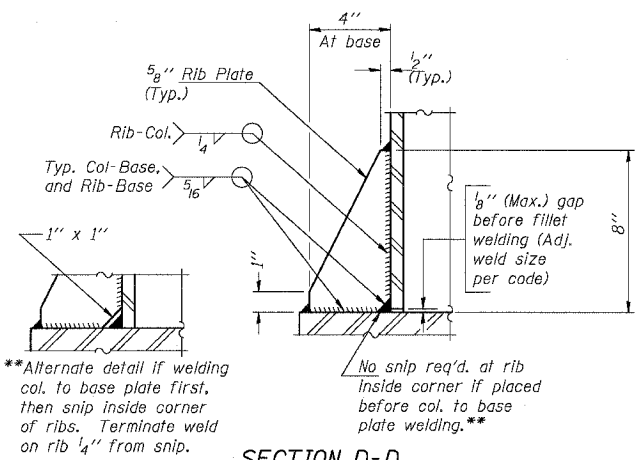
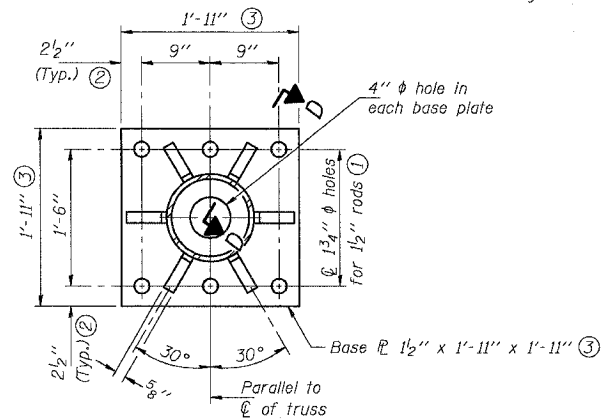
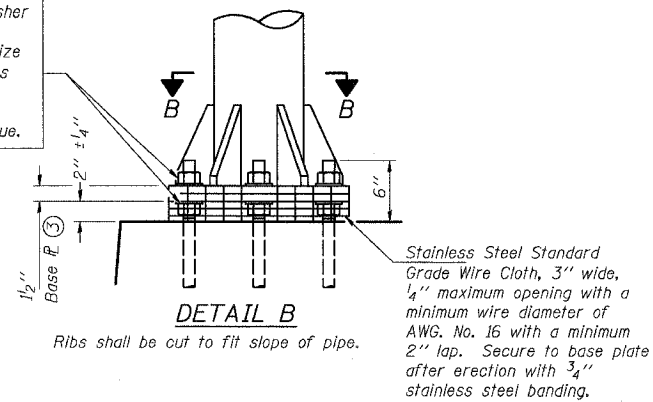
ADDENDUM 1 8/12/05

SGN-18
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES

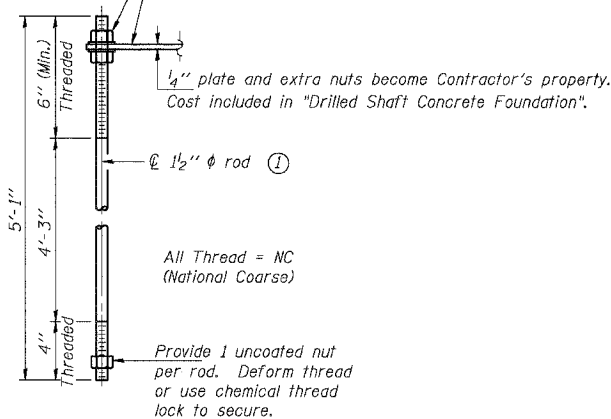
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	316
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
62302 *1B18, ETC, 2324.6-1PR-9				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



ANCHOR ROD DETAIL

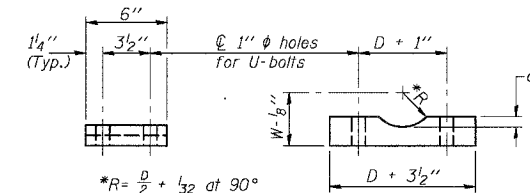
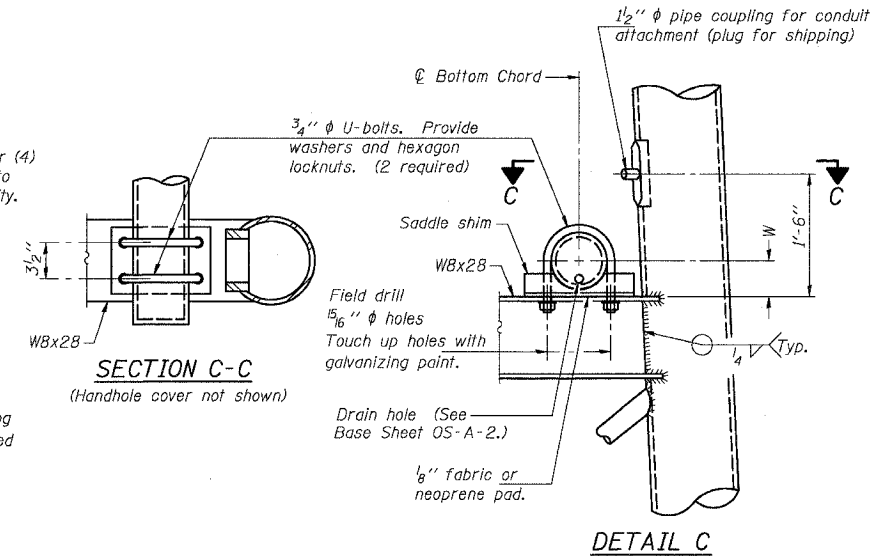
Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS

12" ϕ PIPE SUPPORT FRAME DETAILS

Notes: For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

- ① 1 3/4" ϕ rod, 2" ϕ holes
- ② 2 3/4" edge distance
- ③ Base ϕ 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

DESIGNED	SL
CHECKED	AS
DRAWN	MD
CHECKED	SL

EXAMINED	20
PASSED	

ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-8aA 11/1/2002

NUMBER	REVISION	DATE

ADDENDUM 1 8/12/05

SGN-19

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS

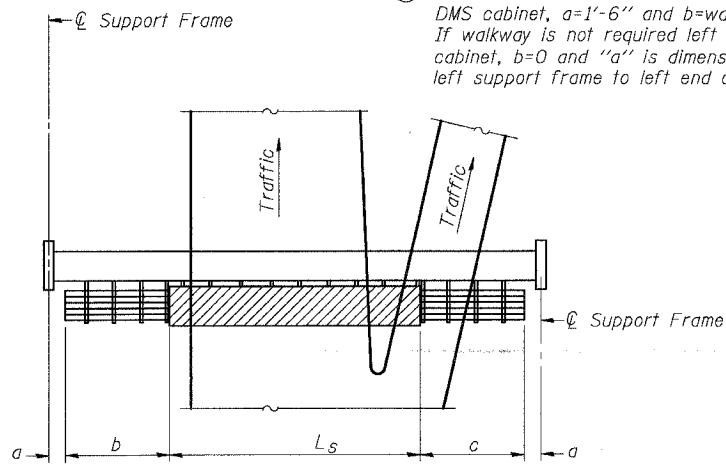
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION

OVERHEAD SIGN STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	LISTED SHEETS	SHEET NO.
			598	320
F.A.I.		ILLINOIS FED. AID PROJECT-		
FED. ROAD DIST. NO. 7				

① If walkway is required left of the DMS cabinet, $a=1'-6''$ and b =walkway lengths. If walkway is not required left of the DMS cabinet, $b=0$ and " a " is dimension from left support frame to left end of cabinet.

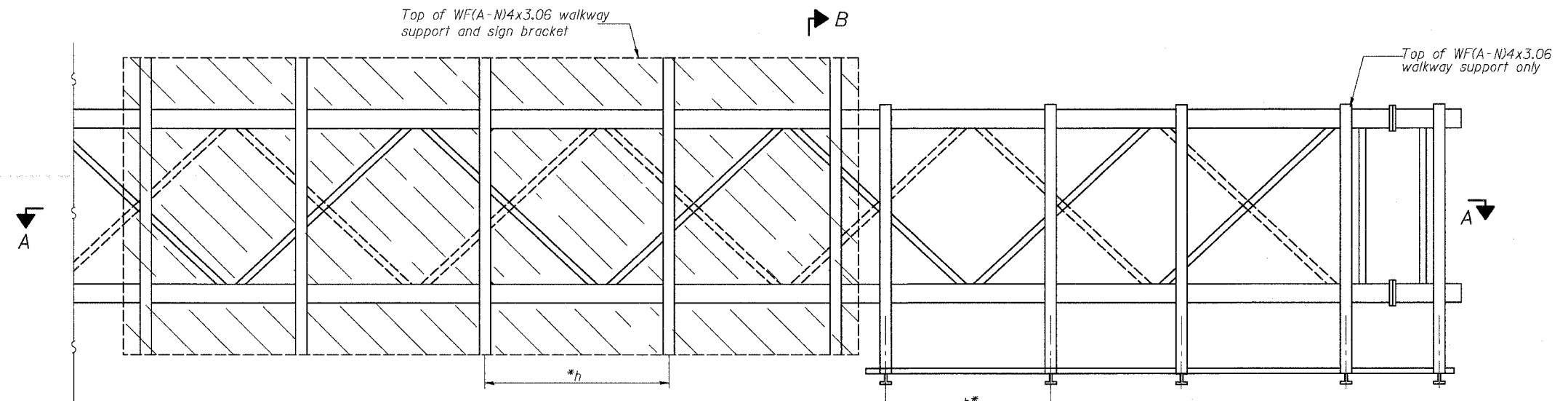


PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		Number Brackets Required
Sign Width		
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

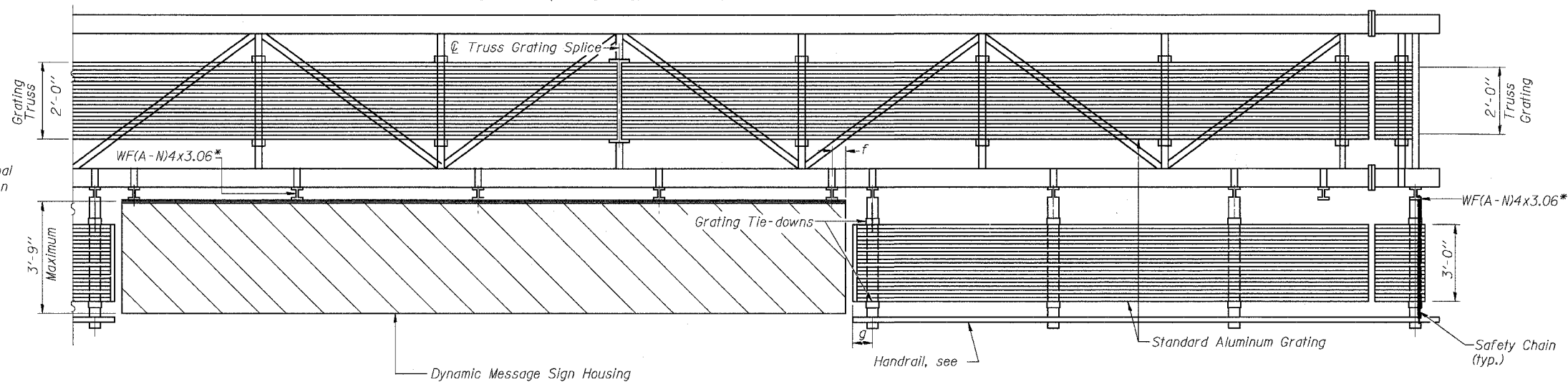
Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2''$ based on available standard widths.



TYPICAL FRONT ELEVATION

With handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12''$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Notes: *Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x3.06 for efficiency and within limits shown:

- $f = 12''$ maximum, $4''$ minimum (End of sign to ϕ of nearest bracket)
- $g = 12''$ maximum, $4''$ minimum (End of walkway grating to ϕ of nearest support bracket)
- $h = 6'-0''$ maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)4x3.06)

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS. For Handrail Splice Details, see Base Sheet OS-A-11.

Structure Number	Station	a	b	c	L_s	Walkway Grating and Handrail Lengths
IS0161094R055.64	3586+80	6.70'	4.01'	4.42'	26.08'	69.83'

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

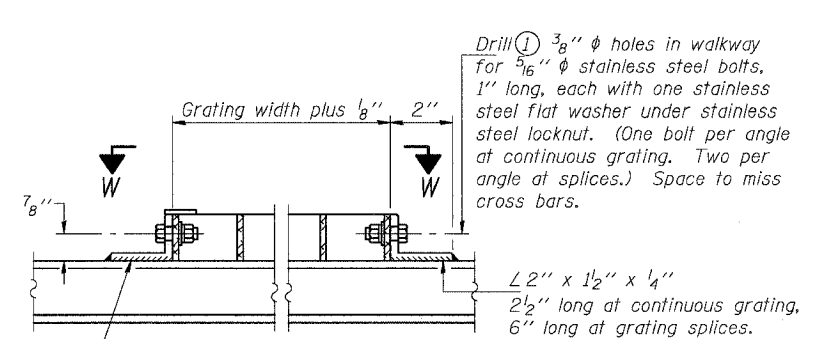
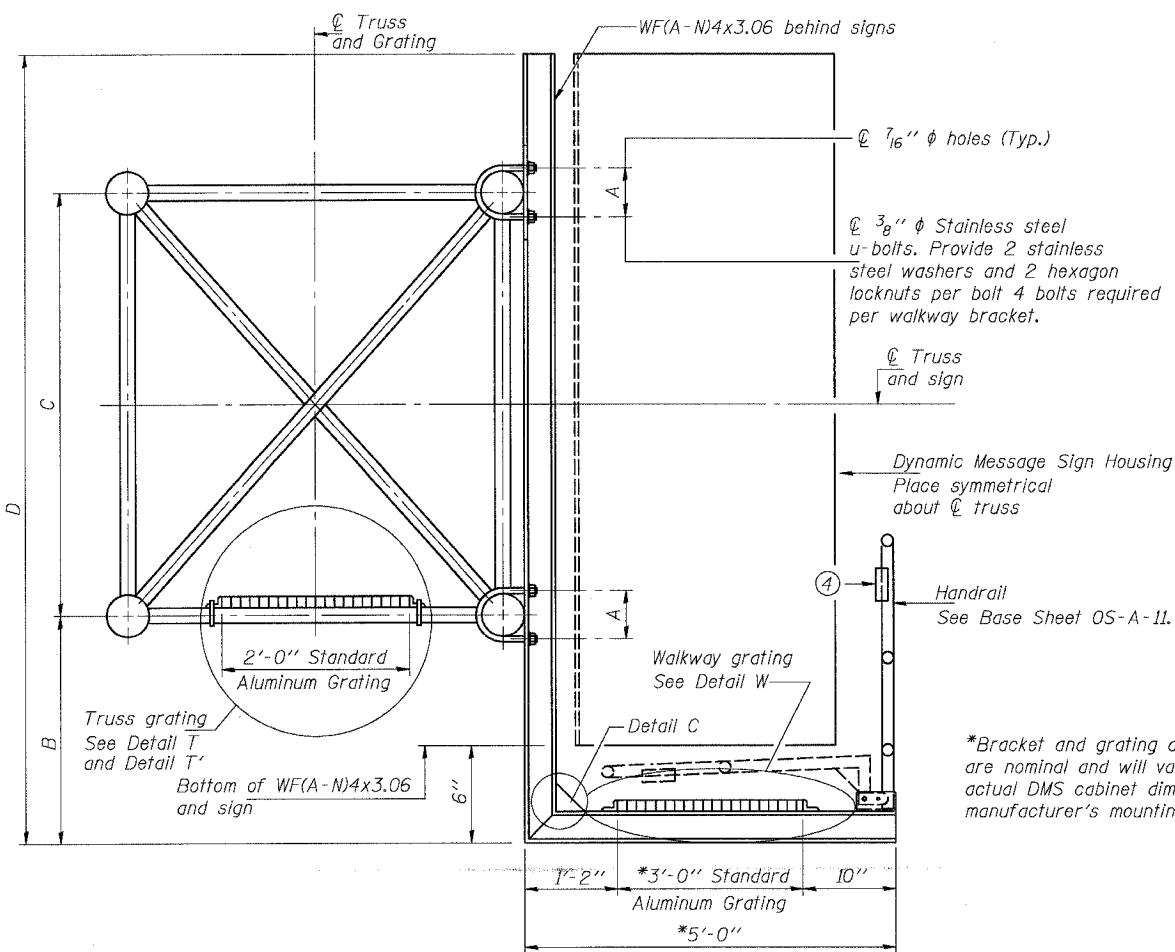
EXAMINED	19
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

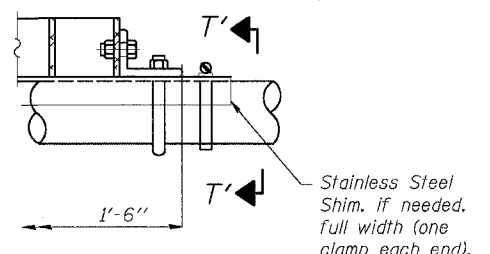
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

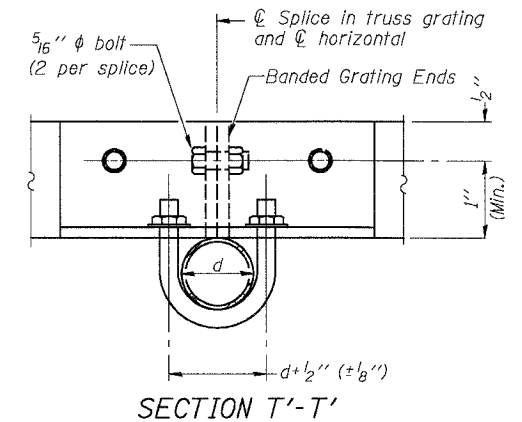
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
			598	321
F.A.I.				



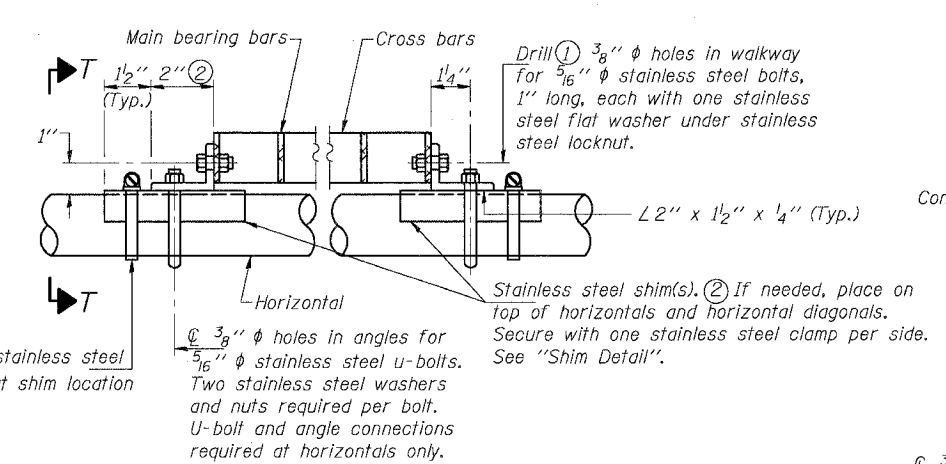
DETAIL W
(Walkway grating)



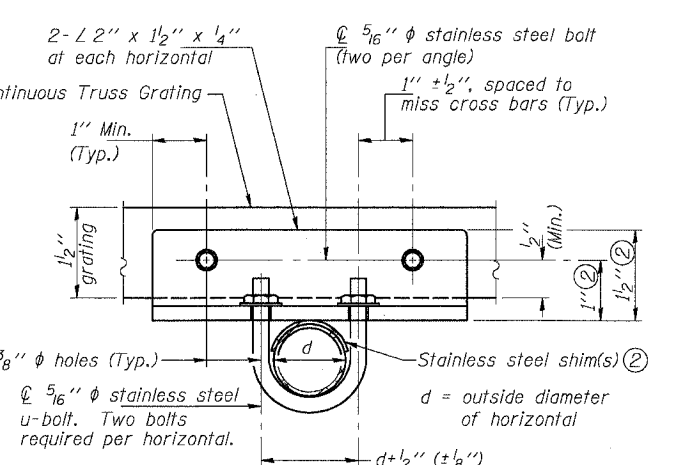
DETAIL T'
(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.



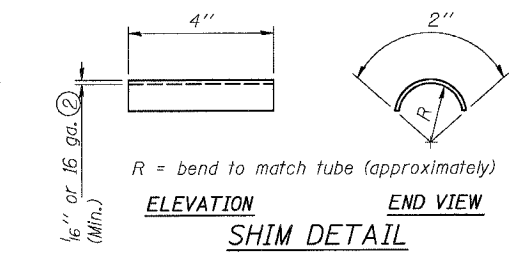
SECTION T'-T'



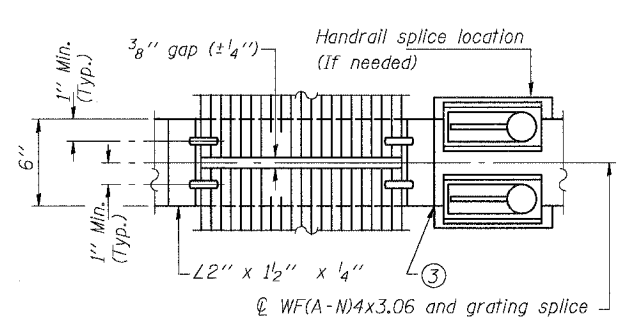
DETAIL T
(Continuous Truss grating)



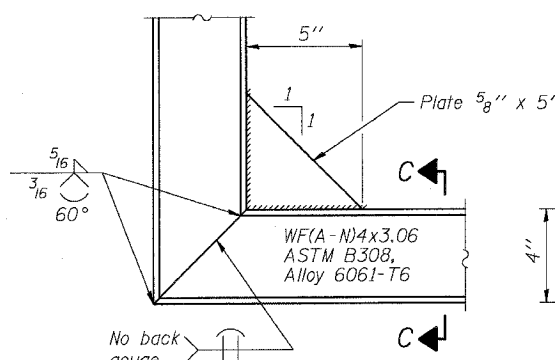
SECTION T-T



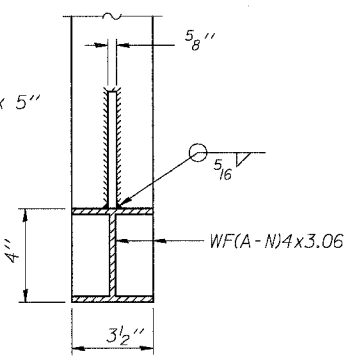
SHIM DETAIL



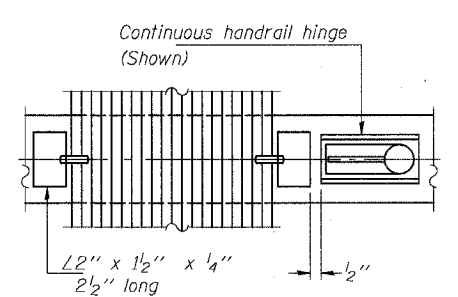
(AT WALKWAY GRATING SPLICE)



DETAIL C
(See Detail P, Base Sheet OS-A-11.)



SECTION C-C



SECTION W-W
(CONTINUOUS WALKWAY GRATING)

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

Structure Number	Station	A	B	C	D
IS0161094R055.6A	3585+80	7 1/2"	1.25'	7.0'	9.00'

DESIGNED	EXAMINED	19
CHECKED	PASSED	ENGINEER OF STRUCTURAL SERVICES
DRAWN	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED		

NUMBER	REVISION	DATE

SGN-24

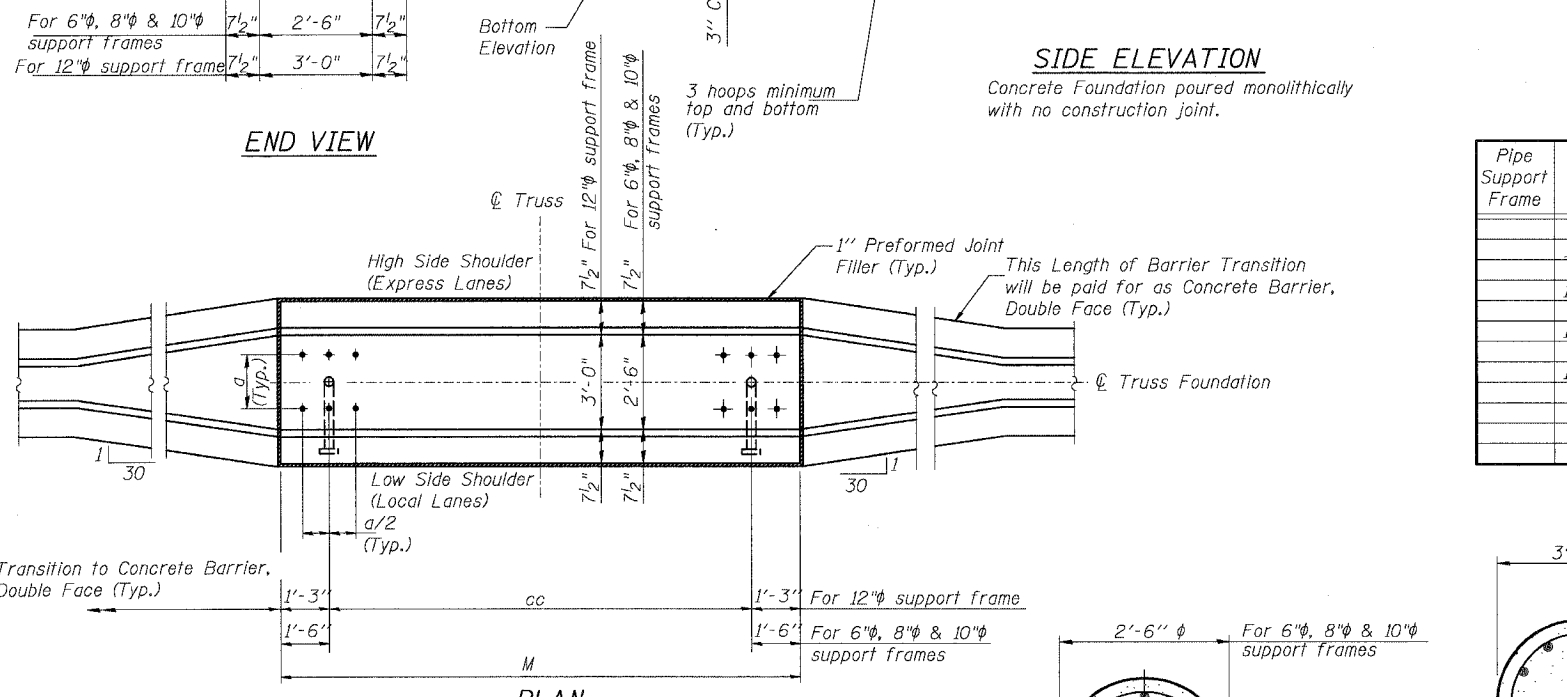
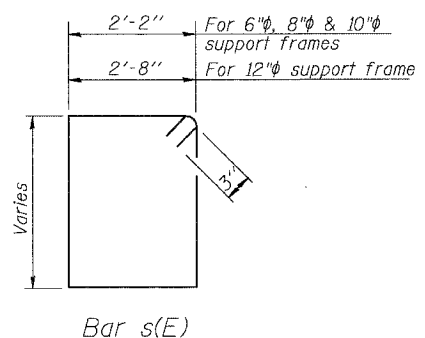
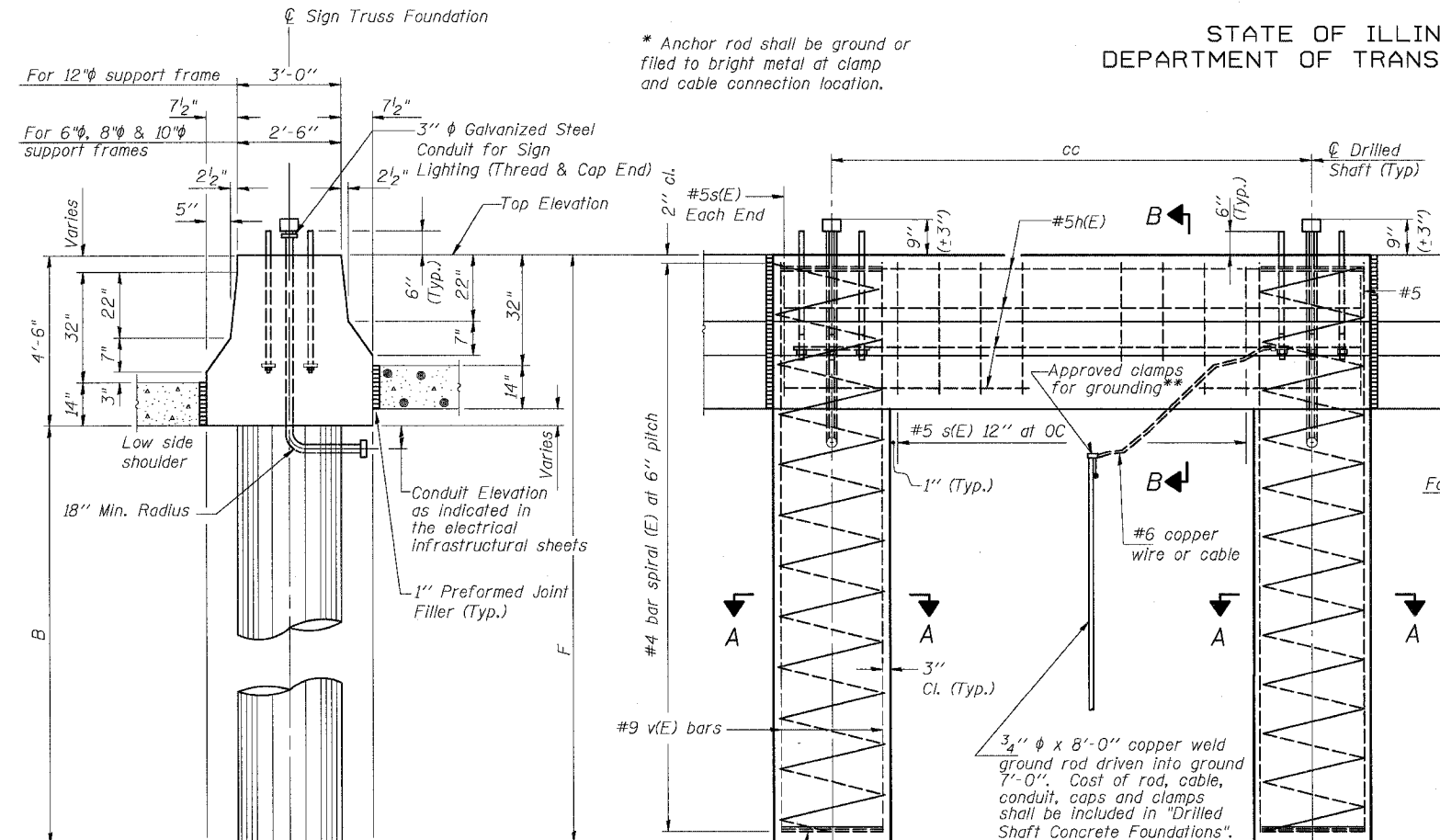
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
NB EXPRESS LANE RECONSTRUCTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	324
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

62300 • (1818, ETC, 2324.6-1P) R-8



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission. Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column. A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Face of median support foundation shall match dimensions of permanent barrier wall F shape. Refer to CONTRACT 62583 for orientation and location of the conduit.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 0'-4"	
s(E)	9	#5	Varies	□
v(E)	24	#9	F less 0'-5"	
v(E)	16	#9	F less 0'-5"	
#4(E) bar spiral - see Side Elevation				

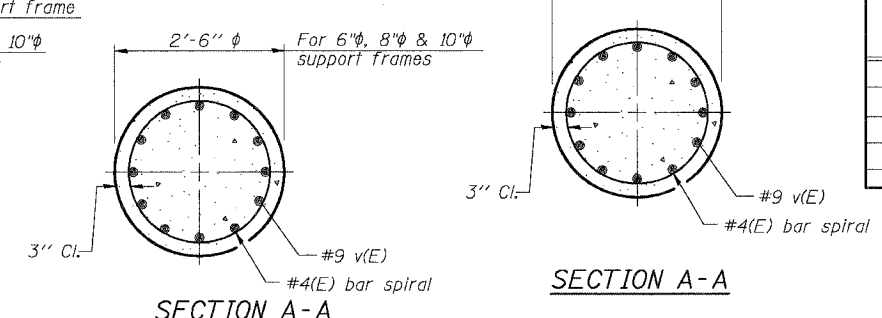
LEFT FOUNDATION USES SINGLE FACE MEDIAN SUPPORT FOUNDATION

Pipe Support Frame	Structure Number	Station	Left Foundation		Right Foundation		Class SI Concrete (Cu. Yds.)
			Elevation Top	Elevation Bottom	B	F	
	ISO161094R055.64	3586+80	5.92'	-16.83'	18.0'	22.75'	22.5
	ISO161094R056.32	3550+87.27	3.61'	-17.64'	16.50'	21.25'	12.80
	ISO161094R055.81	3576+87.34	3.74'	-15.51'	13.50'	19.25'	11.7
	ISO161094R055.33	3603+12.34	8.97'	-9.28'	13.50'	18.25'	20.1

DESIGNED		20
CHECKED		
DRAWN		
CHECKED		

EXAMINED
PASSED

ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES



Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5 1/2"
8"φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"φ	8'-3"	10'-9"	1'-3"	7 1/2"
12"φ	9'-0"	12'-0"	1'-6"	9"

SGN-27

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION

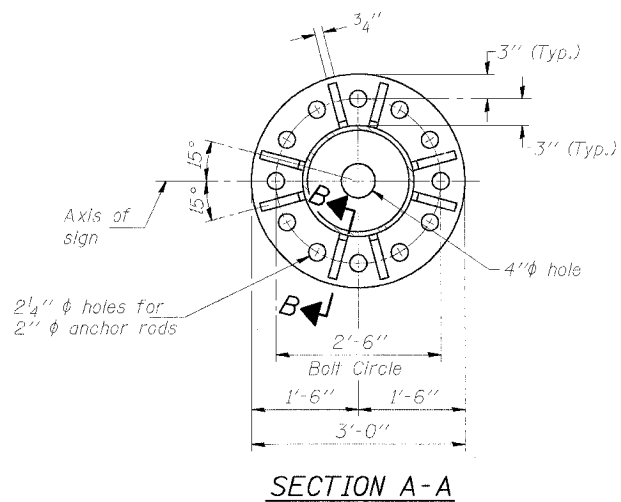
OVERHEAD SIGN STRUCTURES

MODIFIED FROM OS4-MED

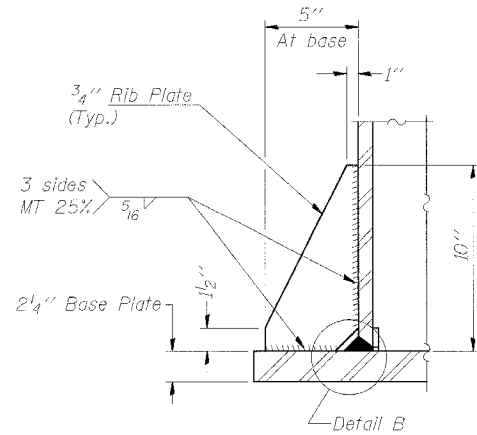
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
94/90		COOK	598	329
FED. ROAD DIST. NO. 1		SCALE	PROJECT	

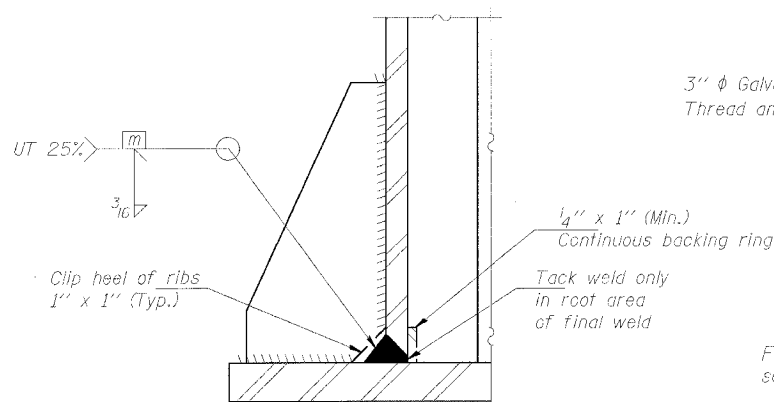
62302 •(1818, ETC, 2324.6-1P)R-9



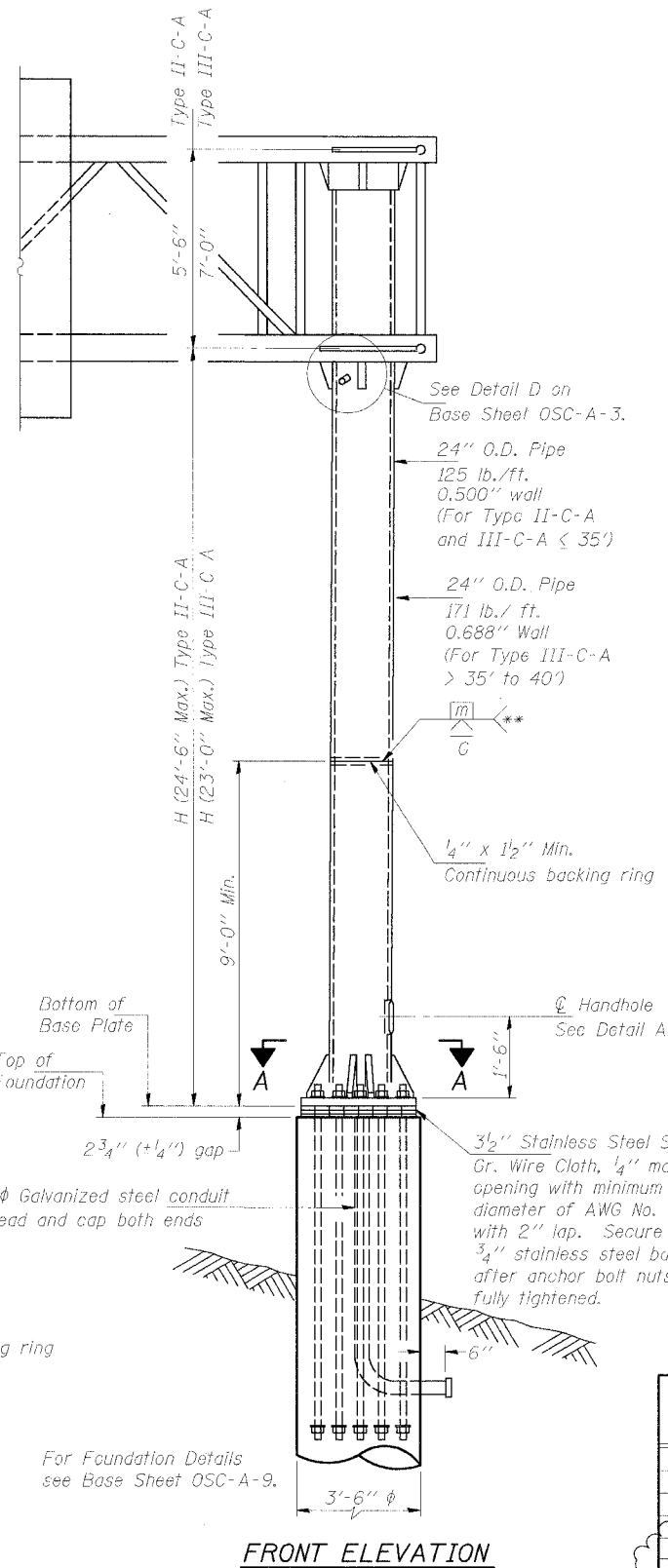
SECTION A-A



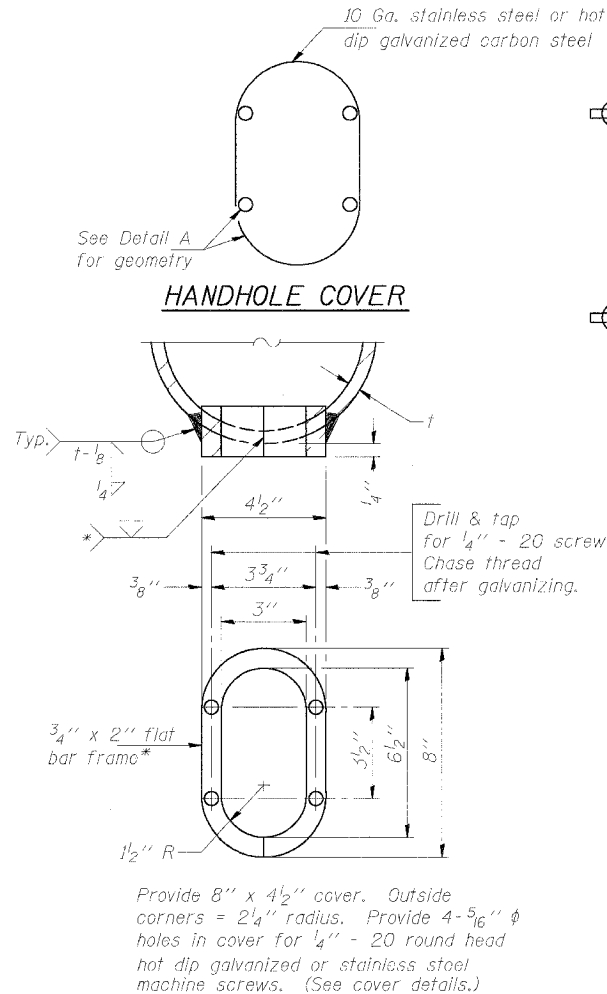
SECTION B-B



DETAIL B
(Typical rib)

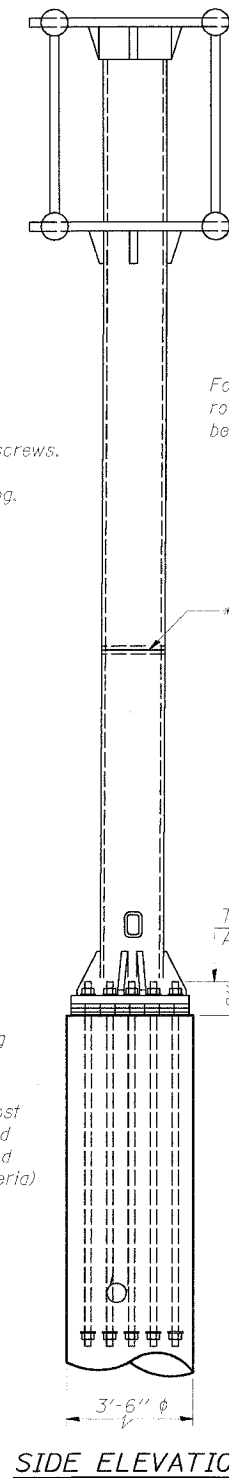


FRONT ELEVATION

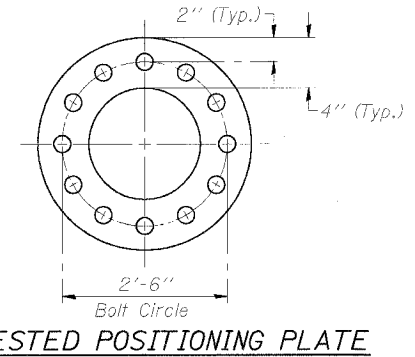


DETAIL A

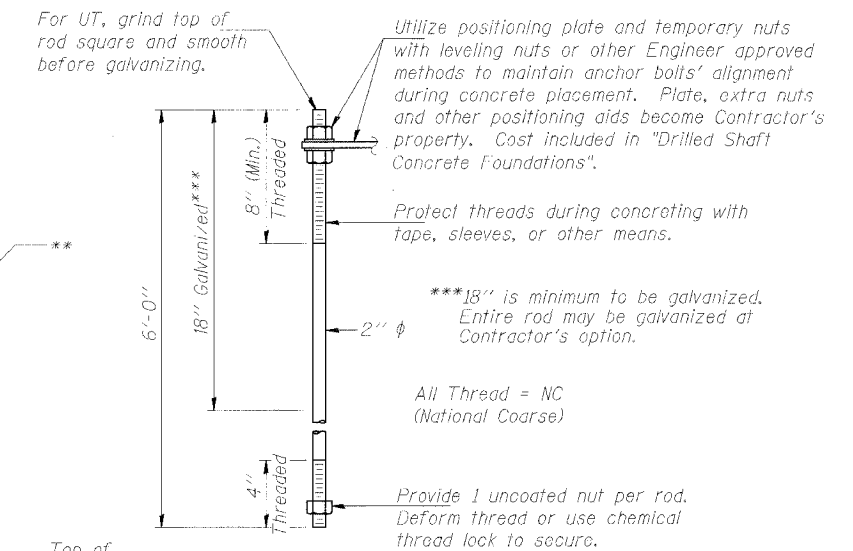
Structure Number	Station	H
1C0161094R057.5	1486+00	19.61'
1C0161094R057.0	1514+30	20.18'



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" φ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in "Drilled Shaft Concrete Foundations".

DESIGNED	MSA	20
CHECKED	AS	EXAMINED
DRAWN	MD	PASSED
CHECKED	MSA	

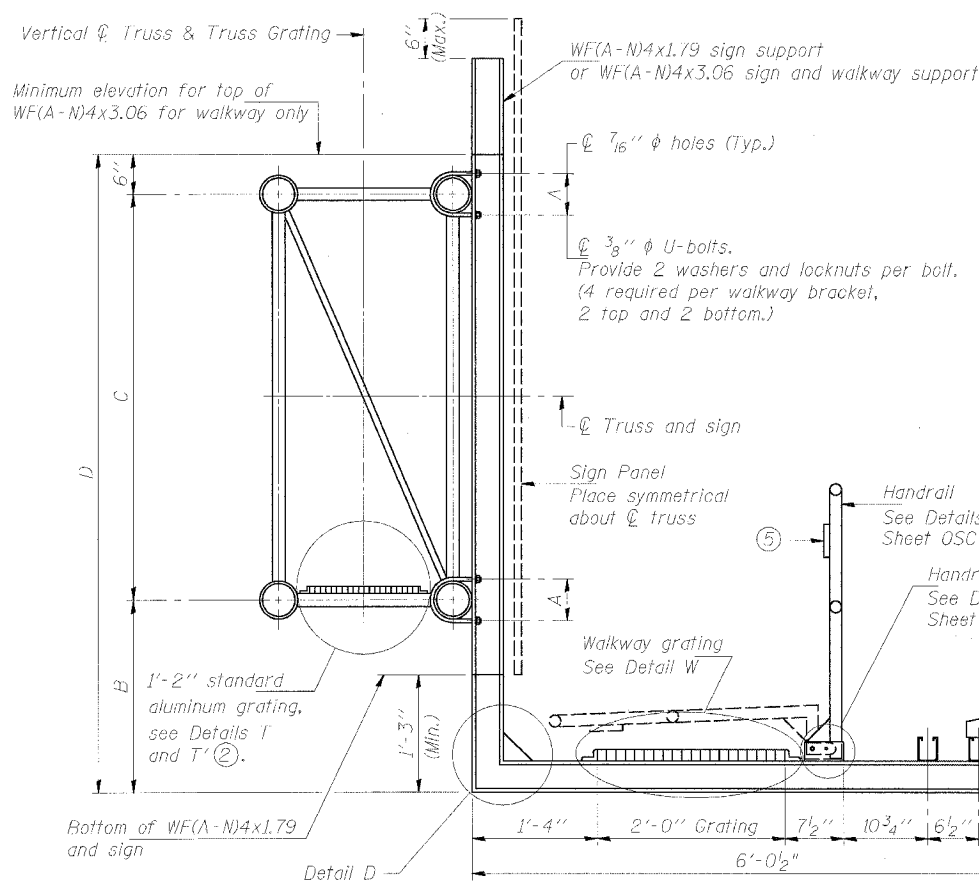
NUMBER	REVISION	DATE
Δ	ADDENDUM 1	8/21/05

SGN-32
CANTILEVER SIGN STRUCTURES
TYPE II-C-A & III-C-A TRUSS SUPPORT POST
ALUMINUM TRUSS & STEEL POST
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES CANTILEVER

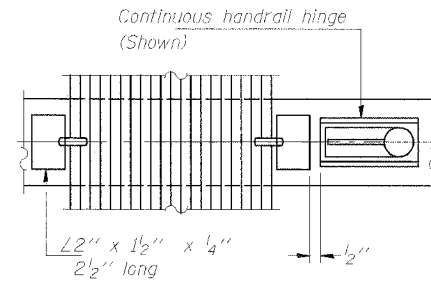
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO.
94/90		COOK	598	331
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

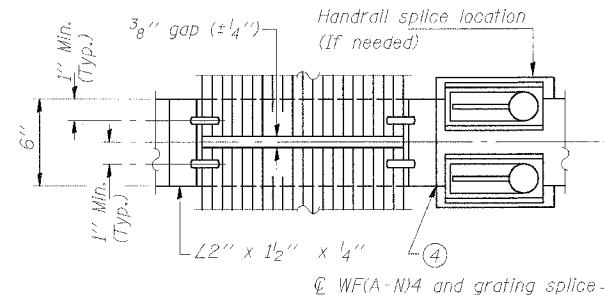
62302 • (1818, ETC. 2324.6-1PR-9



SECTION B-B

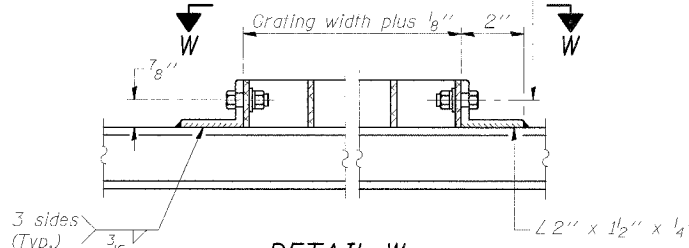


(CONTINUOUS WALKWAY GRATING)

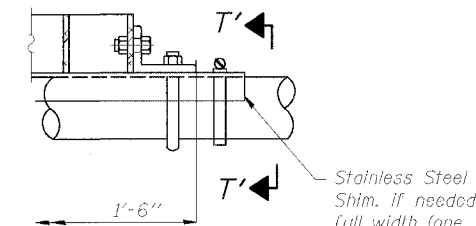


(AT WALKWAY GRATING SPLICE)

Drill 3/8'' ϕ holes in walkway for 5/16'' ϕ bolts, 1'' long, each with one flat washer under locknut. One bolt per angle.

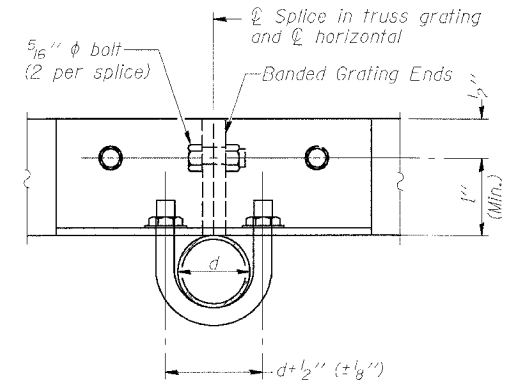


DETAIL W
(Walkway grating)

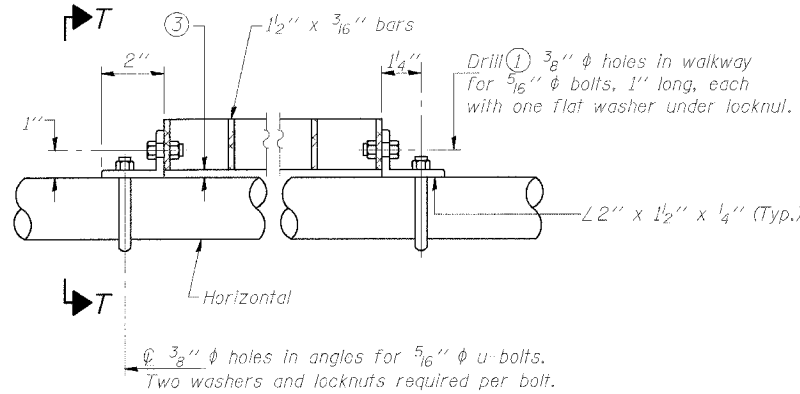


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

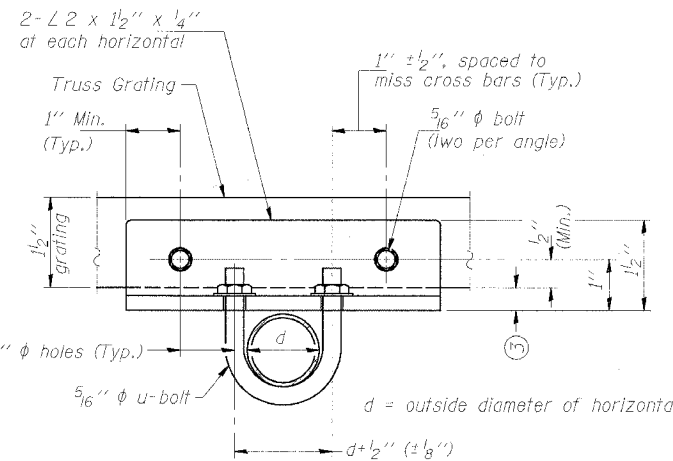


SECTION T'-T'

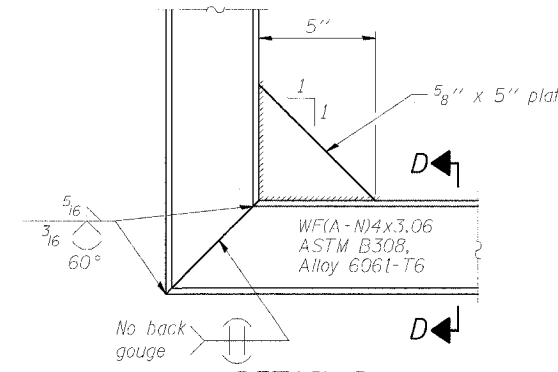


DETAIL T

(Truss grating at horizontal)

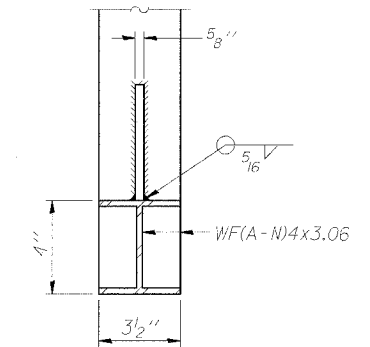


SECTION T-T'



DETAIL D

(See Detail P, Base Sheet OSC-A-8.)



SECTION D-D

NUMBER	REVISION	DATE
△	ADDENDUM 1	8/21/05

DESIGNED	MSA
CHECKED	AS
DRAWN	MD
CHECKED	MSA

EXAMINED	20
PASSED	

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- When truss grating must be spliced, use suggested detail or other methods subject to the Engineer's review and approval. Locate splice to avoid interference between cross bars and bolt locations.
- Tube to grating gap may vary from 0 to 1/2'' (Max.) to align walkway, allow for camber, etc.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4'' extension bars. (See Base Sheet OSC-A-8)
- 1/8'' x 1/2'' x 2'' welded to handrail posts to protect locations that contact grating.

Structure Number	Station	A	B	C	D
1C0161094R057.5	1486+00	8 3/8''	4.25'	7.0'	11.75'
1C0161094R057.0	1514+30	6 7/8''	5.0'	5.5'	11.0'

SGN-34

CANTILEVER SIGN STRUCTURES
WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES CANTILEVER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	335
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 80 M.P.H. WIND VELOCITY PLUS 30% GUST FACTOR
WIND LOADING: 35 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All threaded rod conforming to ASTM A307, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- Bracket spacing $g \leq 6'-0"$ max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (c_w , d_w) unless otherwise specified.
- For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

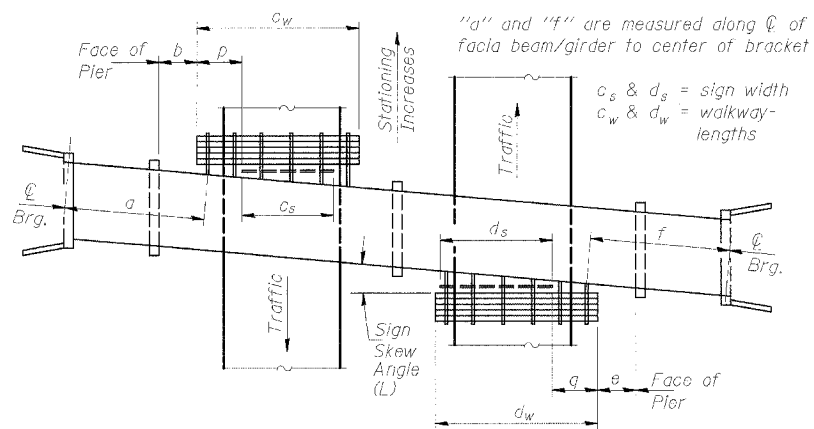
NUMBER	REVISION	DATE
△	ADDENDUM 1	8/21/05

TOTAL BILL of MATERIAL

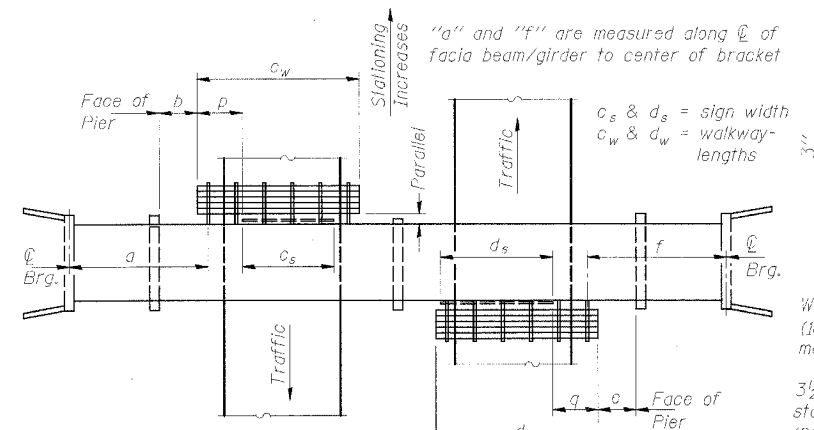
SGN-38

③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	52
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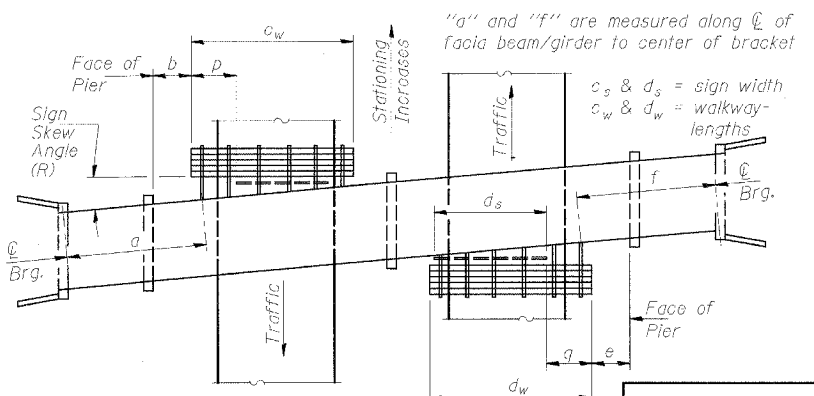
BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES CANTILEVER



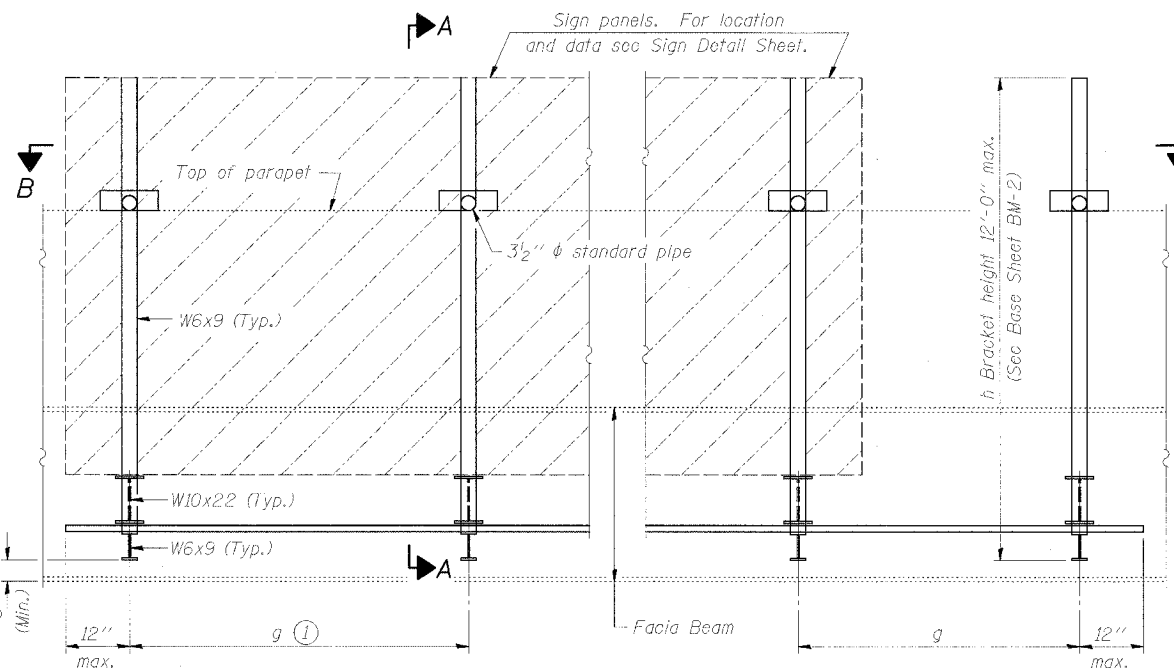
PLAN
(Left Sign Skew $> 15^\circ$)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



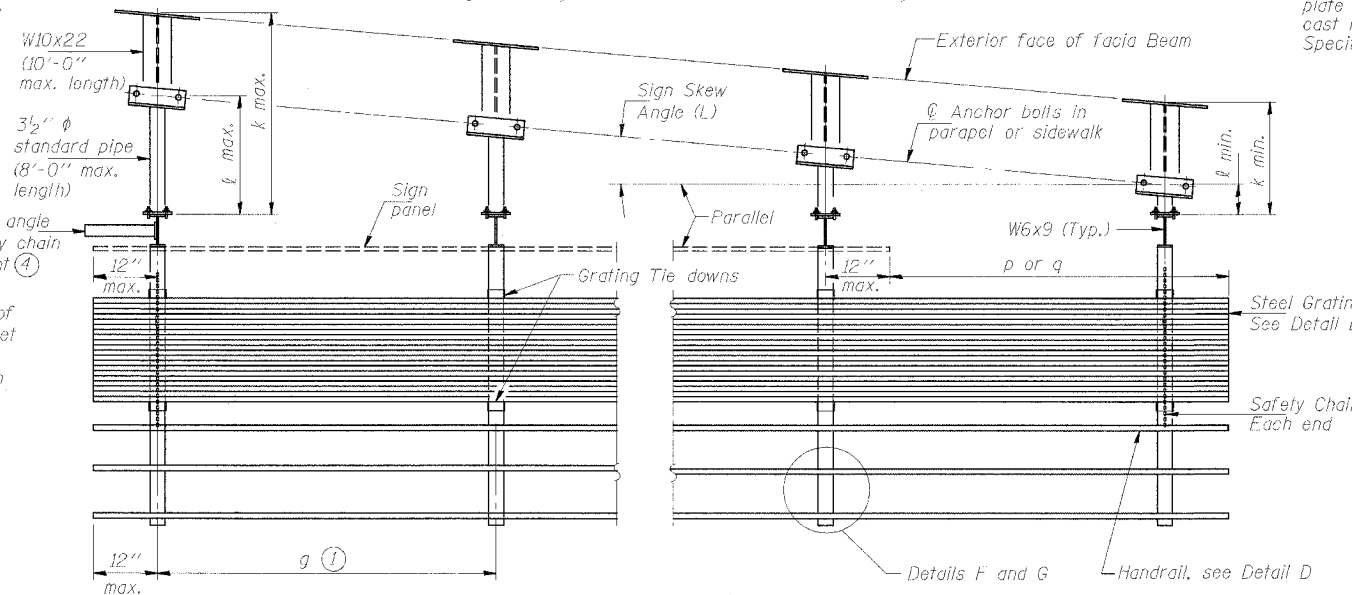
PLAN
(For Sign Skew $\leq 15^\circ$, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



PLAN
(Right Sign Skew $> 15^\circ$)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew $> 15^\circ$)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c_s	c_w	d_s	d_w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths ($c_w + d_w$)
1B0161094R059.5	R-0°2'25"	1379+48.01	016-0189	I-94	56.43	17.75	10.5	52.5	-	-	-	-	6.0	7	9.5	-	52.5

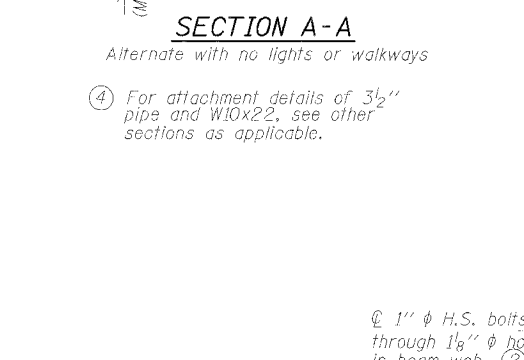
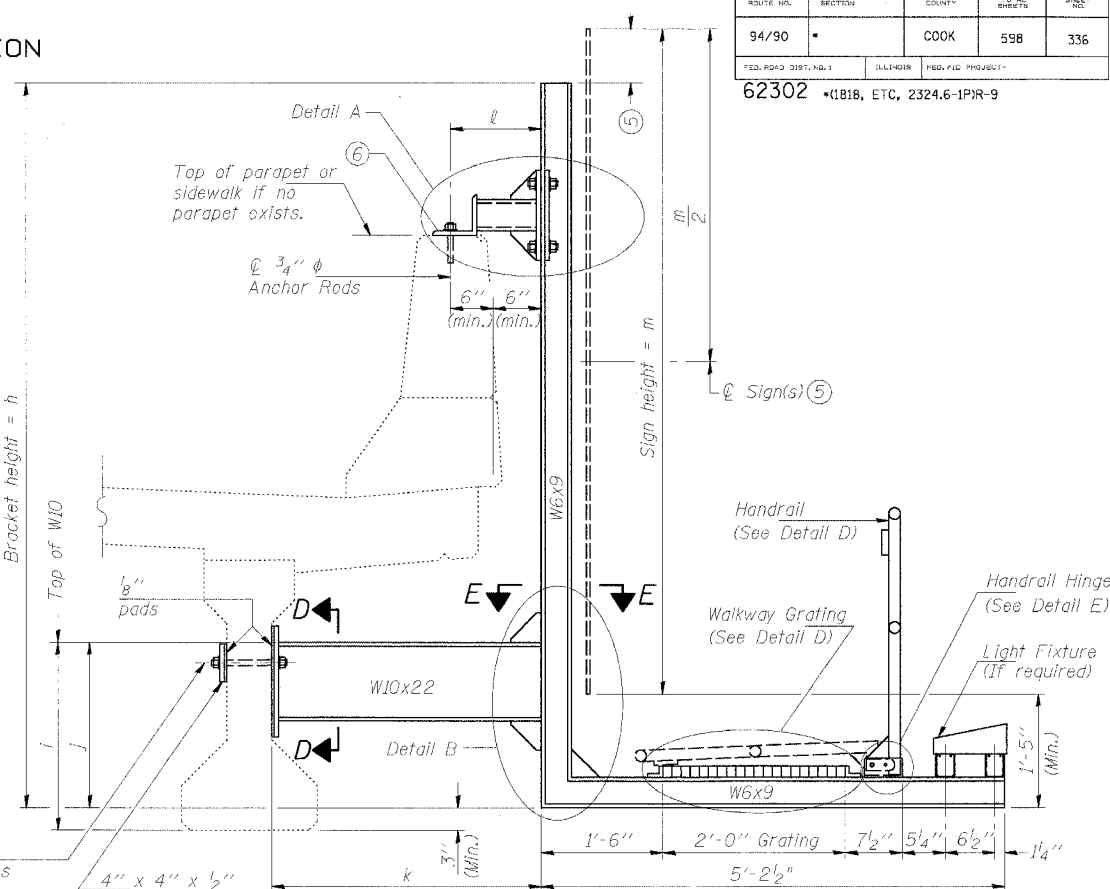
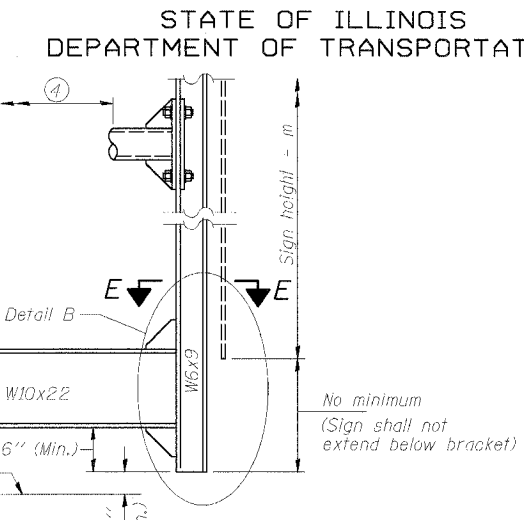
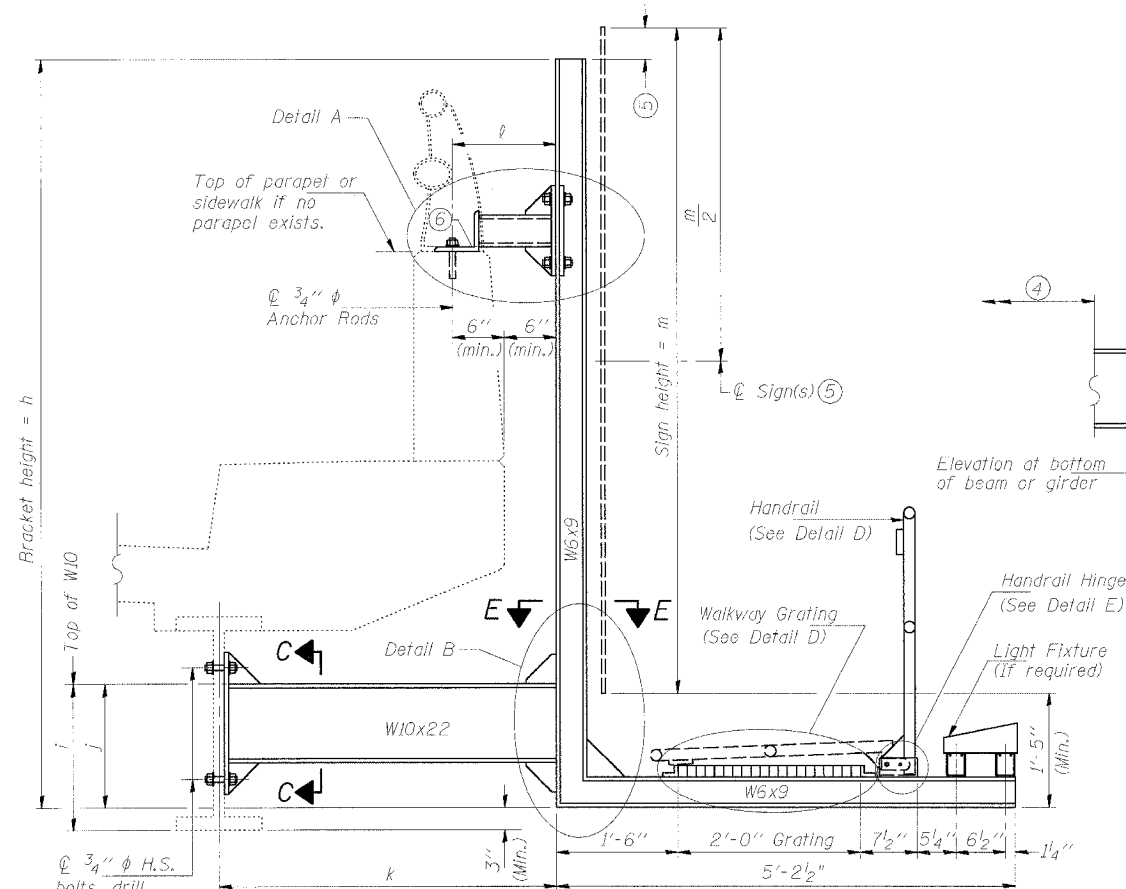
Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).
When $c_w < c_s$ and/or $d_w < d_s$, use alternate brackets without walkway supports where applicable, see (3).

DESIGNED	MSA
CHECKED	AS
DRAWN	MD
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
94/90	*	COOK	598	336
FED. ROAD DIST. NO. 1		ILL. HIGHWAY	FED. AID PROJECT	
62302 * (B18, ETC, 2324.6-1PR-9)				



SECTION A-A
Details for mounting to steel beam or girder
& Details for mounting with existing parapet mounted rail

SECTION A-A
Details for mounting to PPC I Beam or Bulb "T"
& Details for mounting to parapet w/o rail

Structure Number	Station	h (12'-0" max.)	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (11'-0" max.)
1B0161094R059.5	1379+48.01	9.0'	1.75	1.5	3'-8"	1'-1"	8'-6"

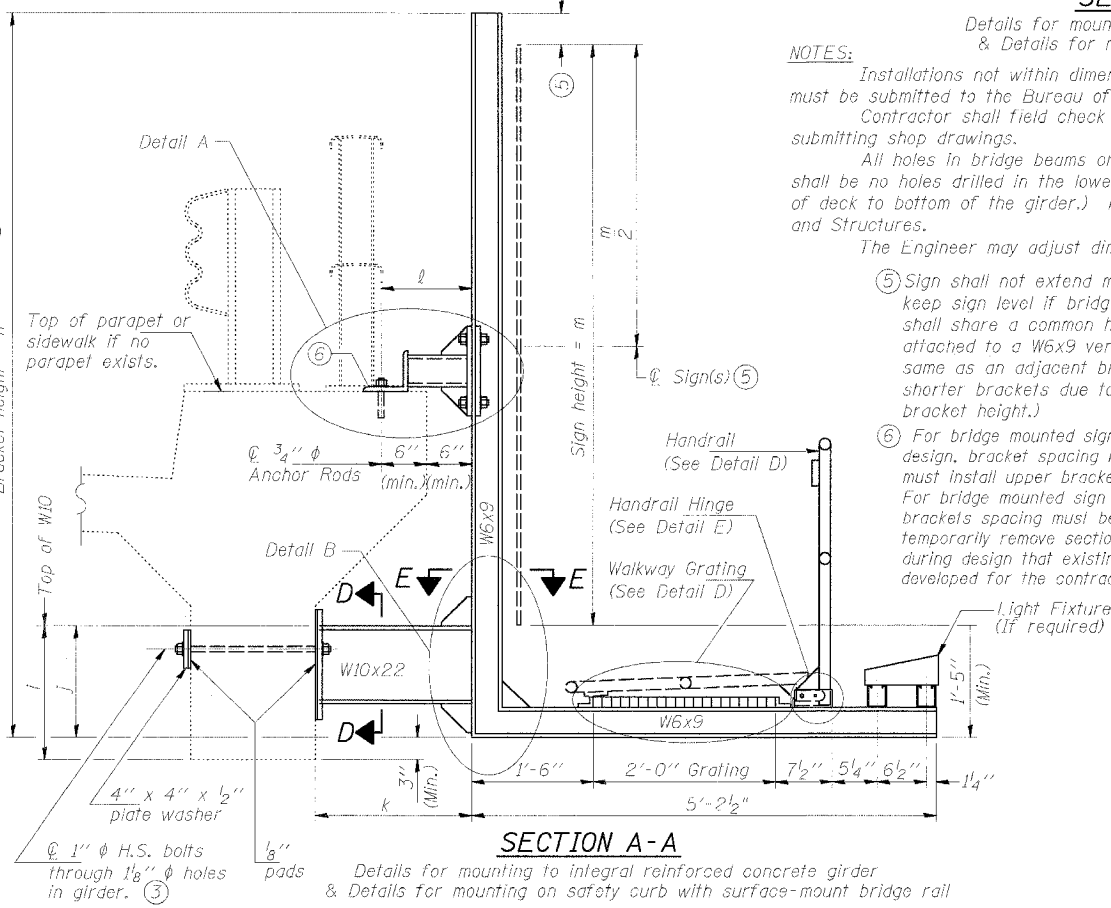
For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

- Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6" min. Minimize spalling during field drilling of existing beams.
- For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6" min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

DESIGNED	MSA
CHECKED	AS
DRAWN	MD
CHECKED	MSA

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
Δ	ADDENDUM 1	8/21/05



SECTION A-A
Details for mounting to integral reinforced concrete girder
& Details for mounting on safety curb with surface-mount bridge rail

- NOTES:**
- Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings. All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures. The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.
 - Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x9 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
 - For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

SGN-39

**BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS**

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES CANTILEVER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
94/90	*	COOK	598	338A	- SHEETS
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
62302		* (1818, ETC. 2324.6-1P1R-8			

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 80 M.P.H. WIND VELOCITY PLUS 30% GUST FACTOR

WIND LOADING: 35 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D11 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All threaded rod conforming to ASTM A307, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

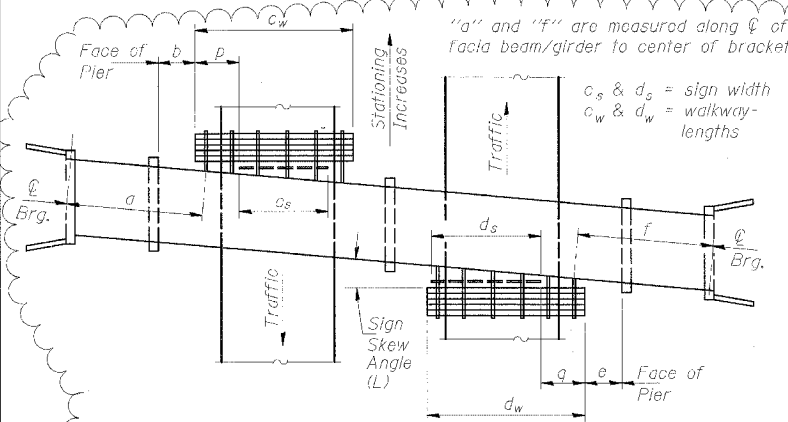
- Bracket spacing $g \leq 6'-0"$ max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (c_w , d_w) unless otherwise specified.

- For Safety Chain Details and Details D, F and G, see Base Sheet BM-4 Special.
- If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4 Special.

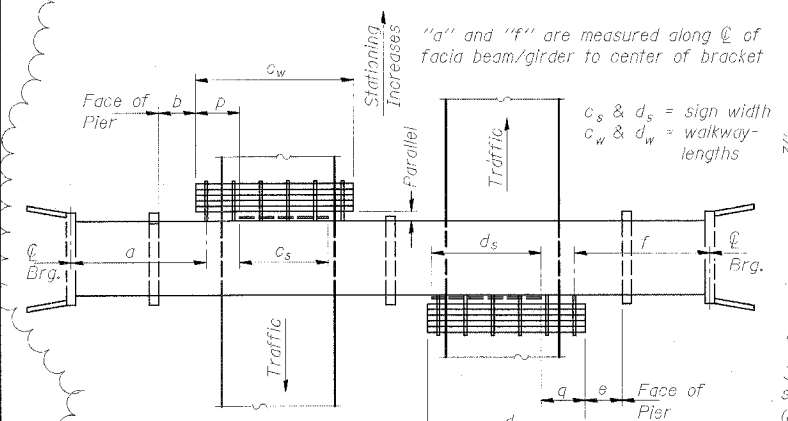
NUMBER	REVISION	DATE
△	ADDENDUM 1	8/21/05

TOTAL BILL of MATERIAL

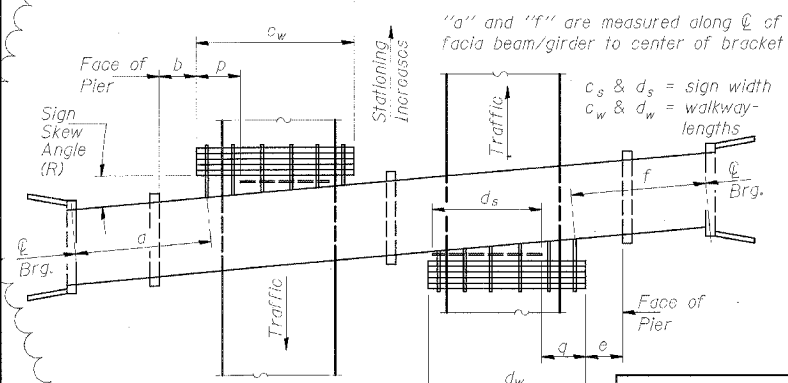
DESCRIPTION	UNIT	QUANTITY
OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	52



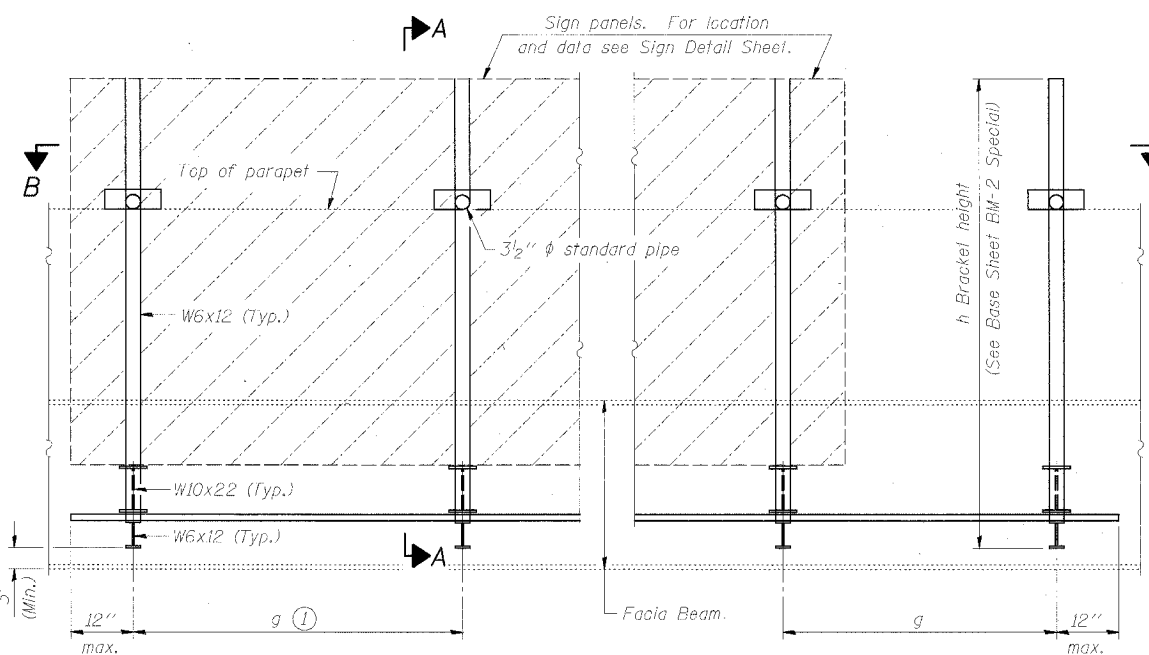
PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



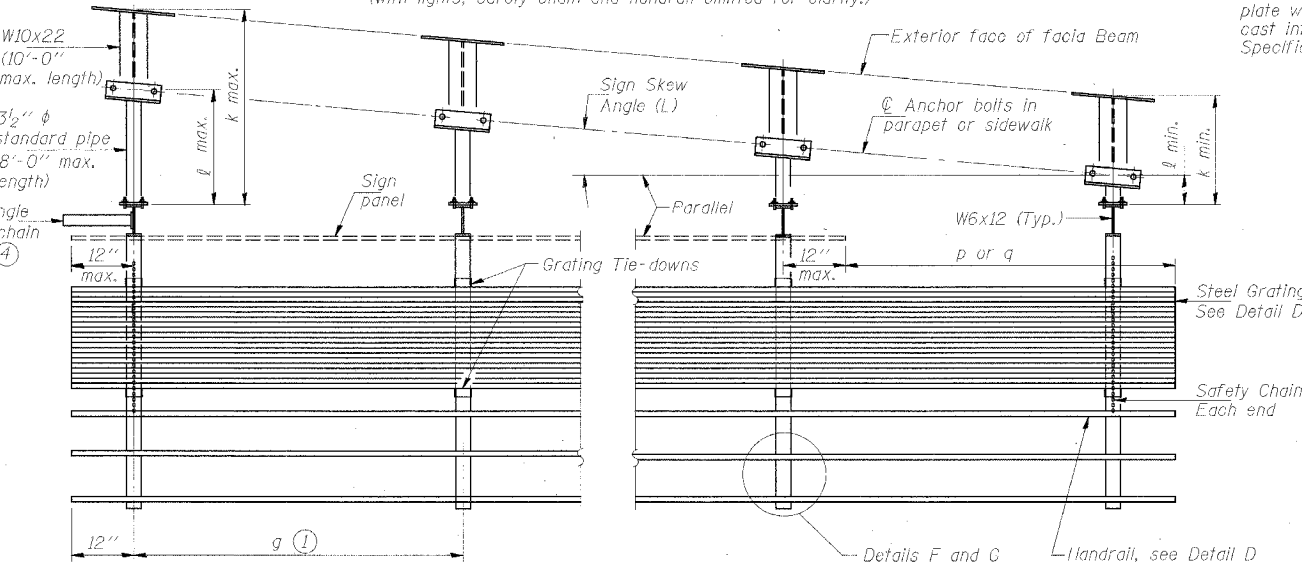
PLAN
(For Sign Skew $\leq 15^\circ$, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



PLAN
(Right Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c _s	c _w	d _s	d _w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Handrail Lengths (c _w + d _w)
1B0161094R058:0	(L)0°15'35"	462+62.82	016-1151	I-94	83.1'	6.0'	21.0'	32.0'	-	-	-	-	6.0'	6	5.5'	-	32.0'

Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).
When $c_w < c_s$ and/or $d_w < d_s$, use alternate brackets without walkway supports where applicable, see (3).

DESIGNED	RLK	EXAMINED	
CHECKED	EL	PASSED	
DRAWN	ABW		
CHECKED	PJM		

BM-1 Special 1/7/05

SGN-41A

BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
NB EXPRESS LANE RECONSTRUCTION

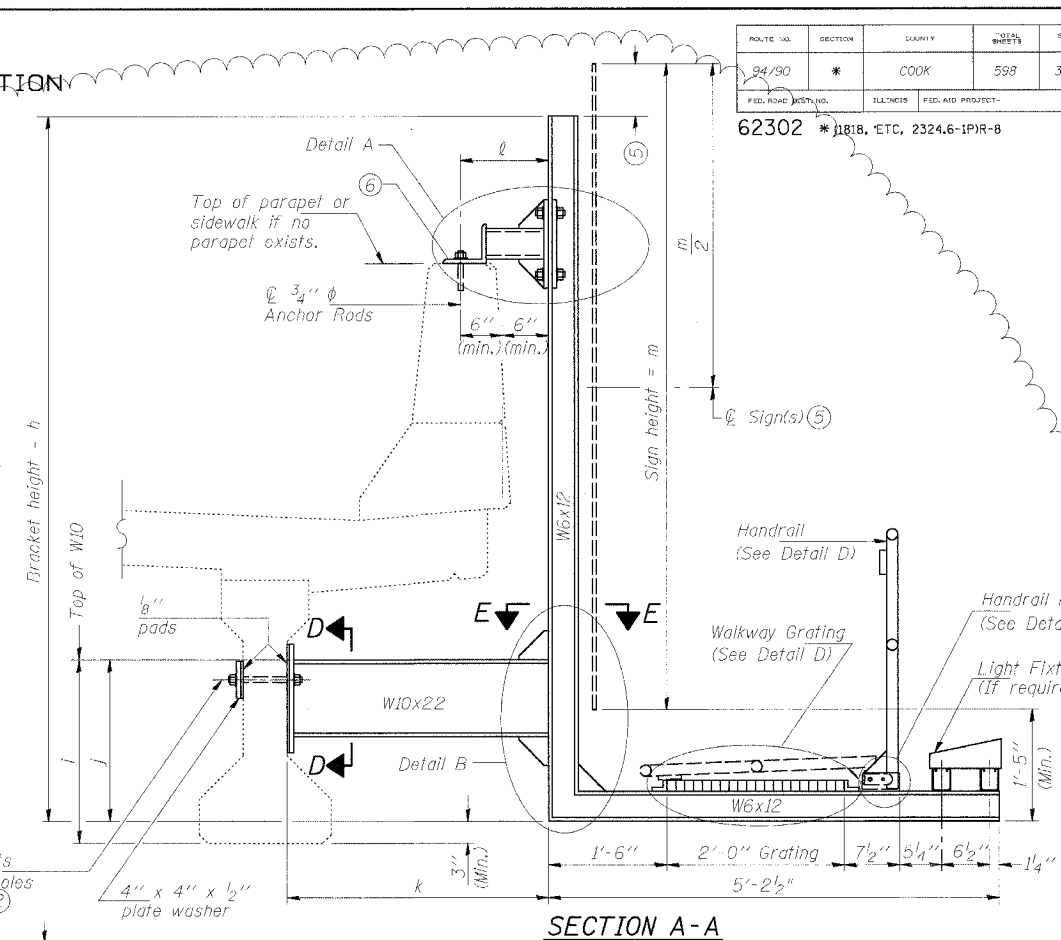
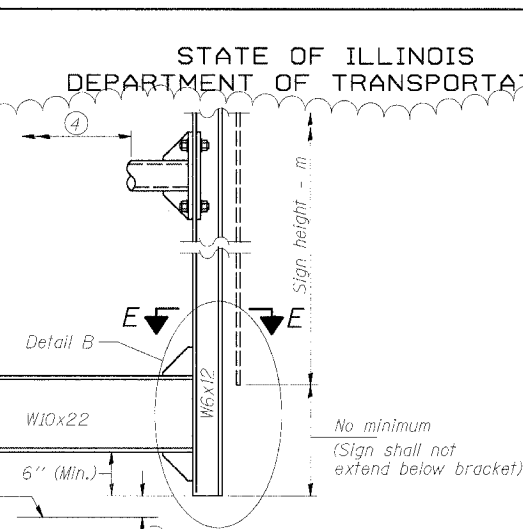
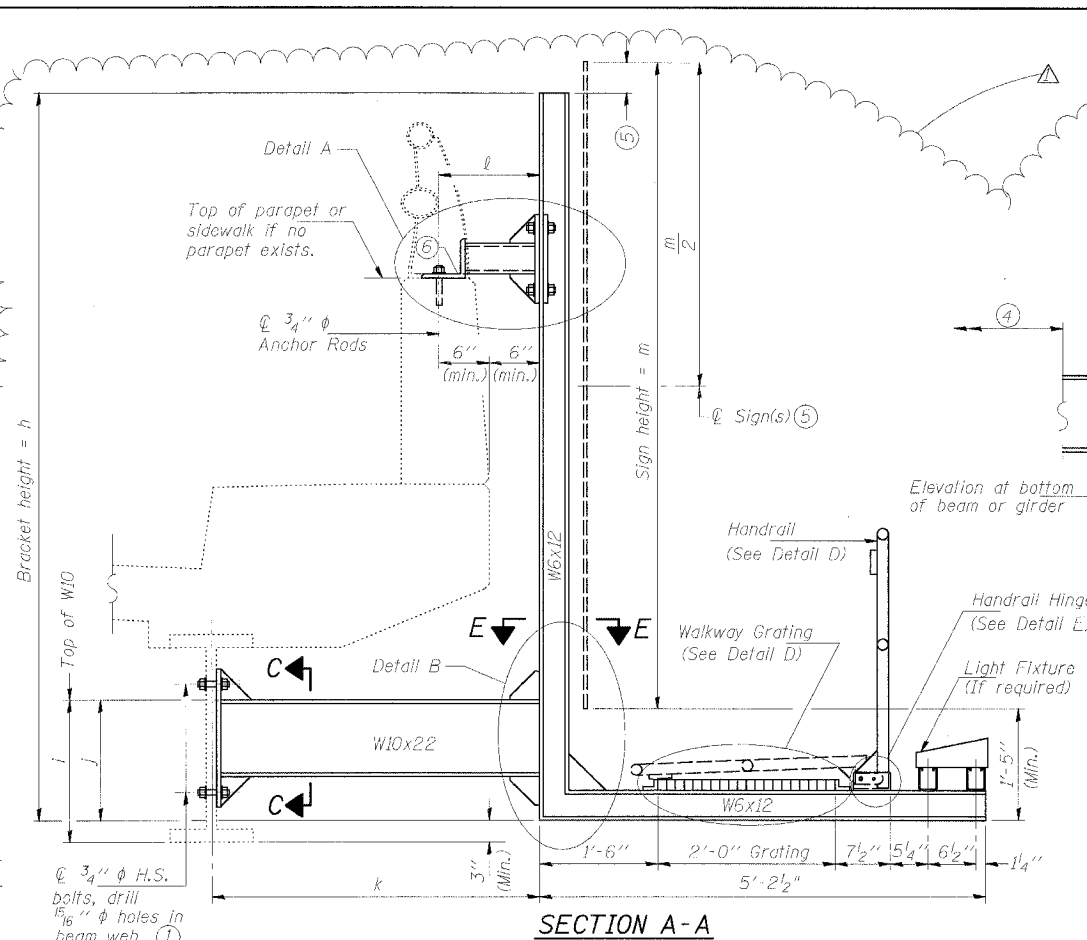
OVERHEAD MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	CLASSIFICATION	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	339B

SHEET NO. SHEETS

62302 * 11818, ETC, 2324.6-1PJR-B



Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
180161094R058.0	1462+62.82	13.0'	1.75'	1.5'	3'-8"	1'-1"	12'-6"

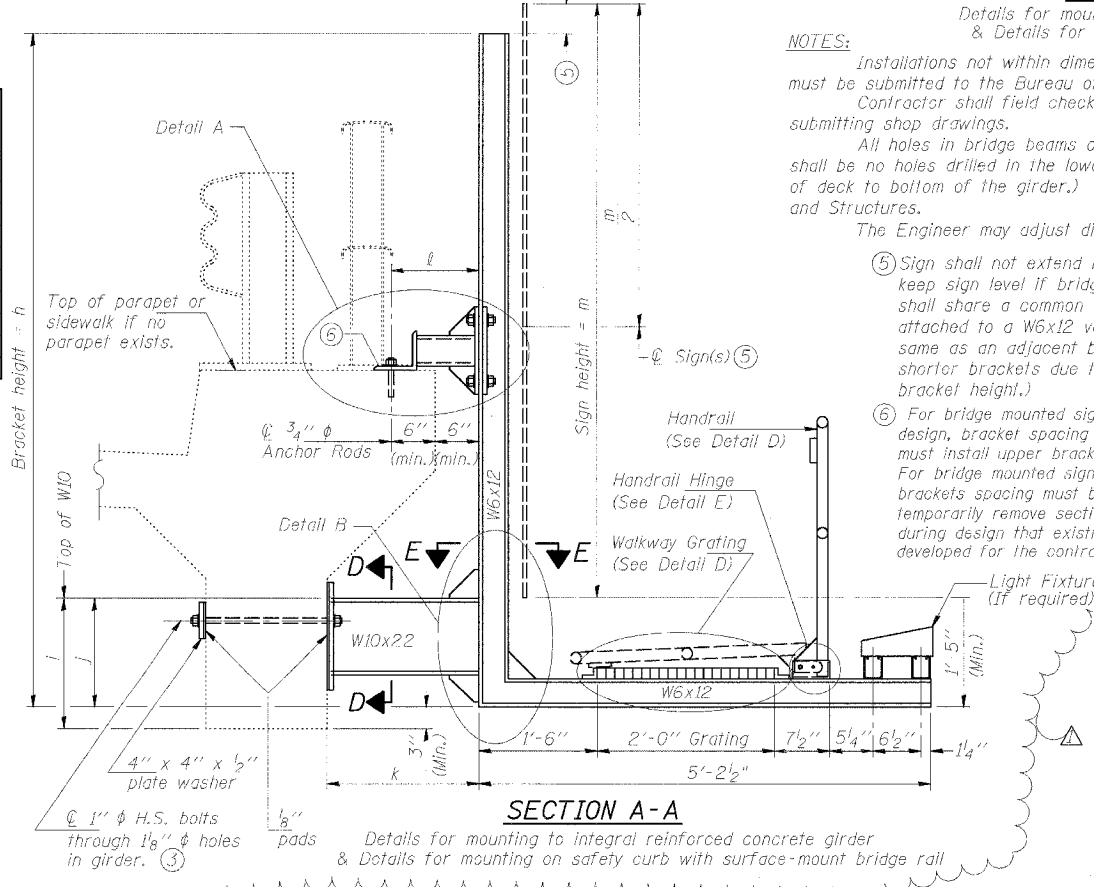
For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3 Special.
For Details D & E, see Base Sheet BM-4 Special.

- Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6" min. Minimize spalling during field drilling of existing beams.
- For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6" min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

DESIGNED RLK	20
CHECKED EL	EXAMINED
DRAWN ABW	PASSED
CHECKED PJM	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE
Δ	ADDENDUM 1	8/21/05

BM-2 Special 1/7/05



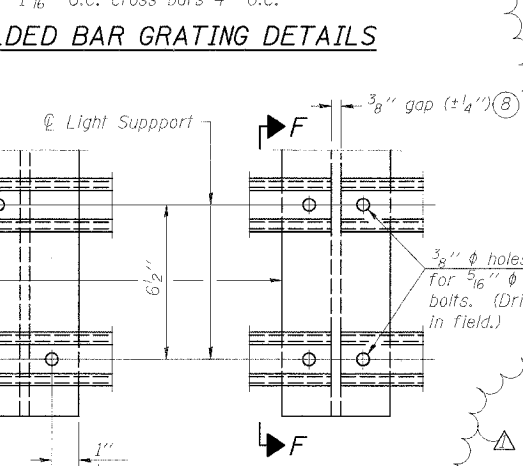
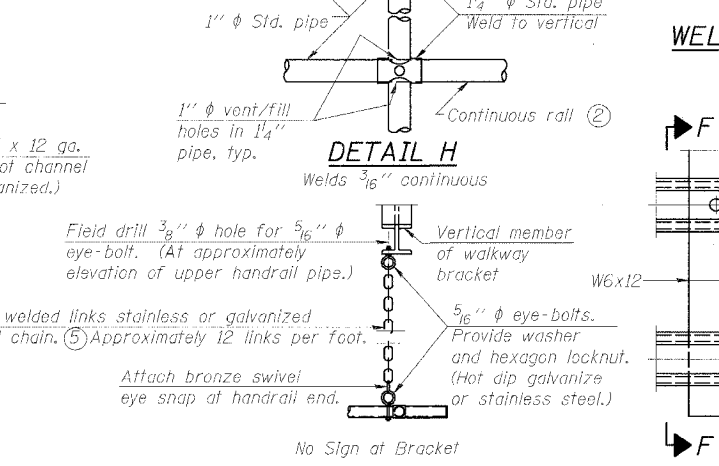
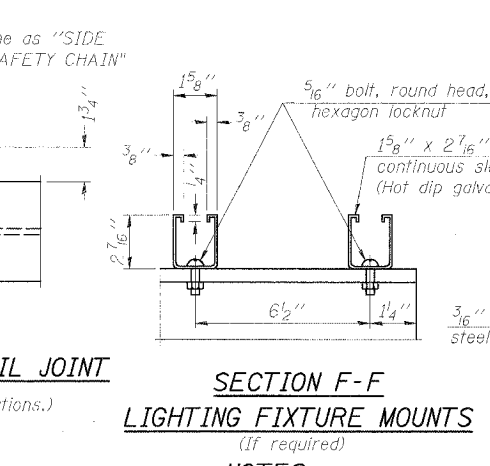
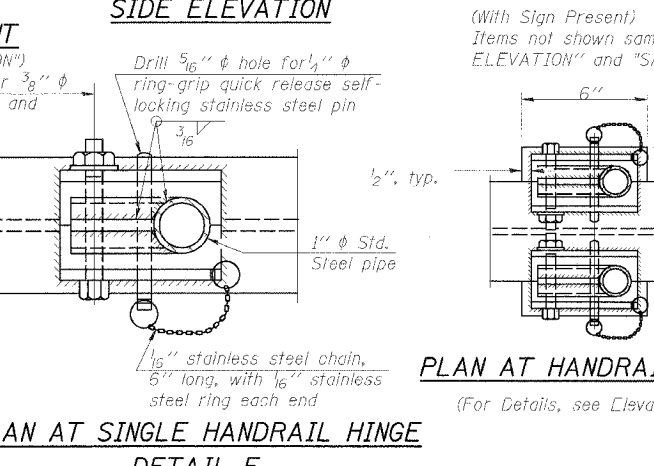
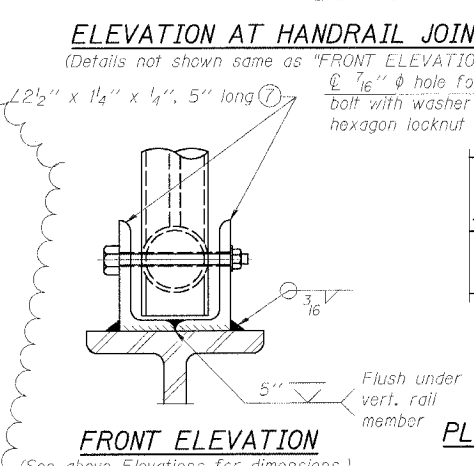
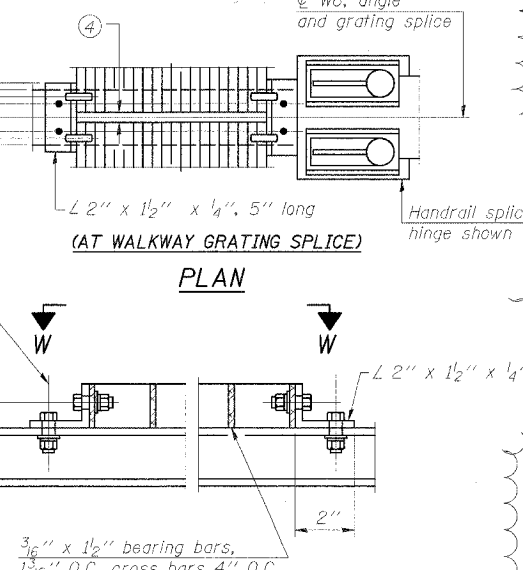
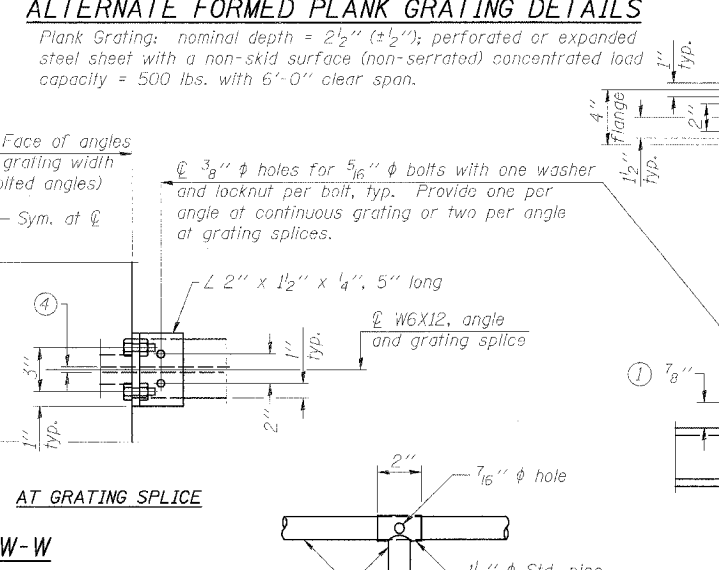
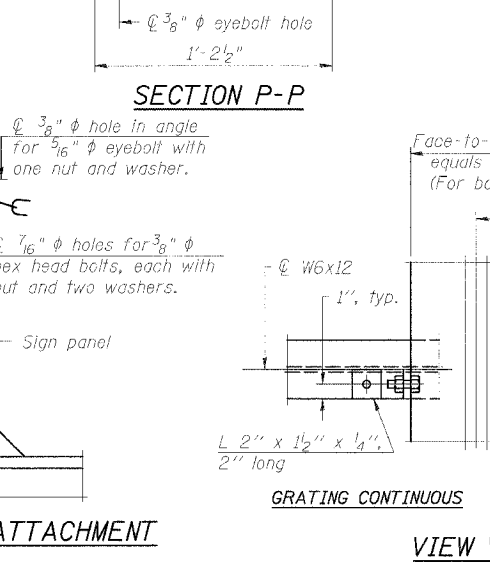
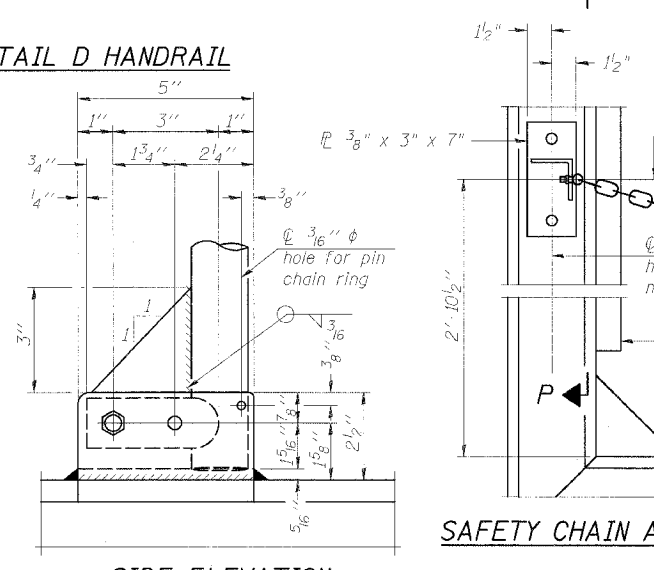
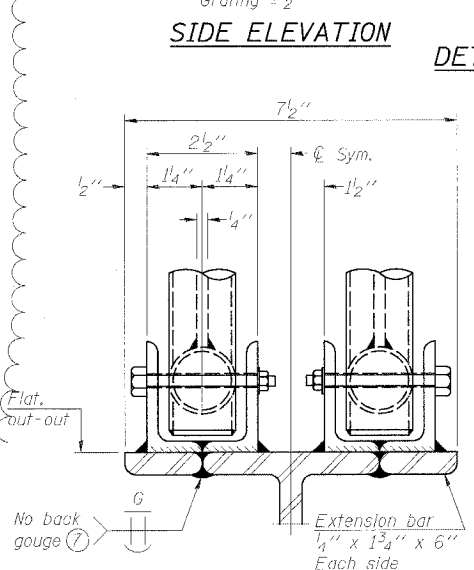
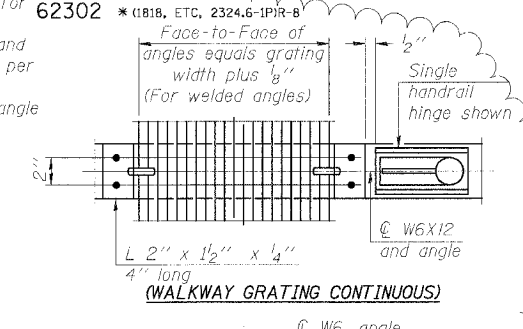
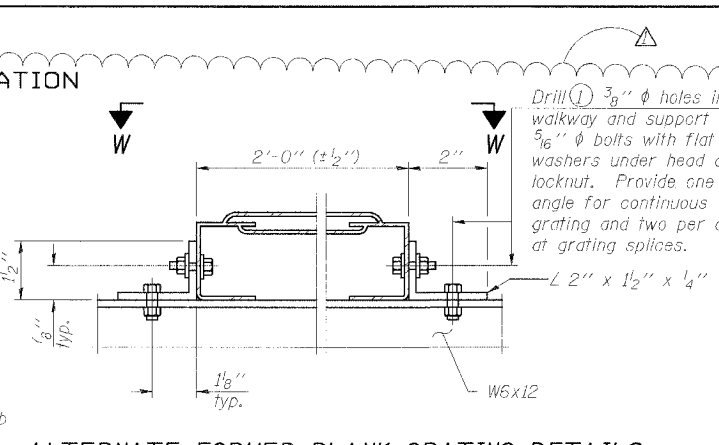
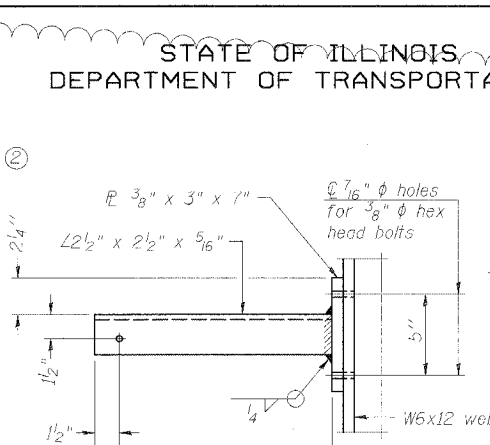
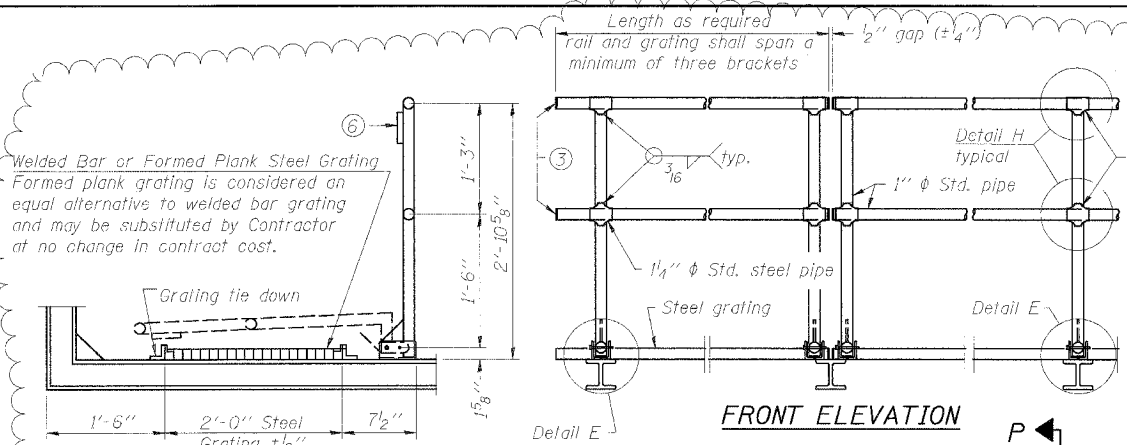
NOTES:
installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.
Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation.
For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

SGN-41B
**BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS**
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
NB EXPRESS LANE RECONSTRUCTION
BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
94/90	*	COOK	598	338D
SHEETS				



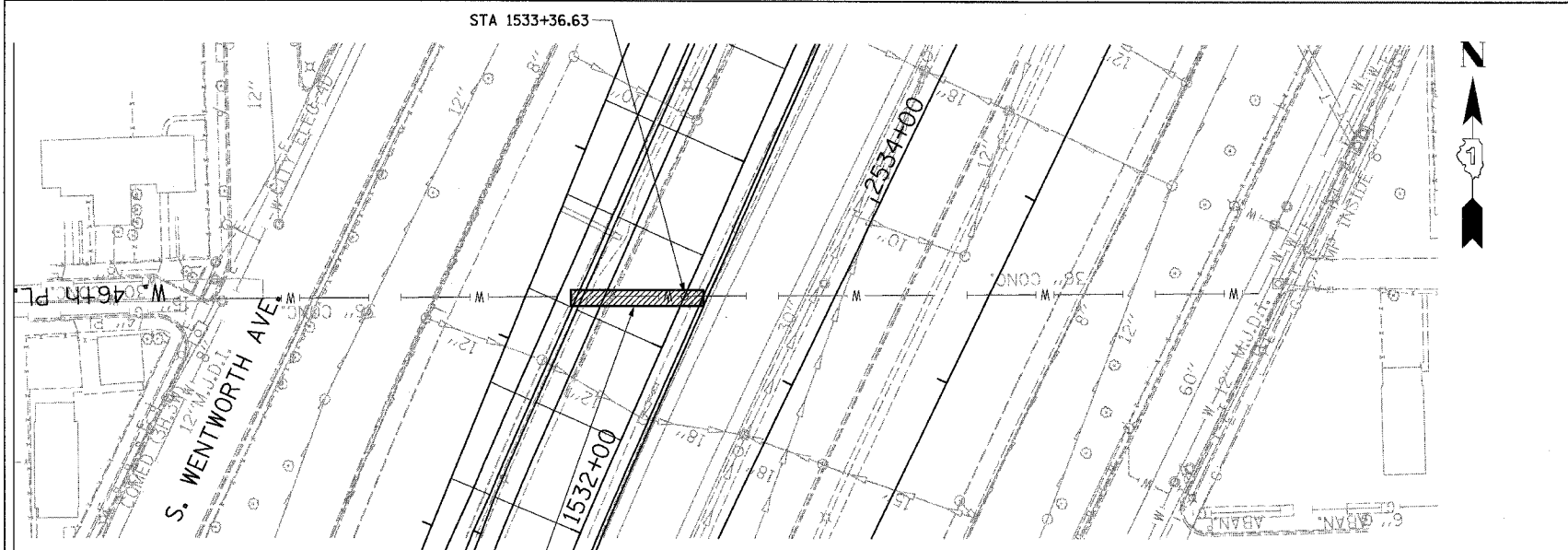
NUMBER	REVISION	DATE
△	ADDENDUM 1	8/21/05

DESIGNED: RLK	EXAMINED: 20
CHECKED: ELL	ENGINEER OF BRIDGE DESIGN
DRAWN: ABW	PASSED
CHECKED: PJM	ENGINEER OF BRIDGES AND STRUCTURES

- NOTES**
- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.
 - Horizontal rail member shall be continuous thru 1 1/4 inch diameter pipe. Provide 7/16 inch diameter hole in fitting for 3/8 inch diameter bolt. Field drill 7/16 inch diameter hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16 inch eye bolts in 7/16 inch diameter holes on top rail at ends only.)
 - Install standard force-fit end caps or weld 1/8 inch end plates with 1/8 inch c.f.w. and grind smooth. (All rail ends.)
 - 3/8 inch (± 1/4 inch) gap between grating panels at splice.
 - Chain to be hot dip galvanized after manufacture or stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".
 - 1/2 inch x 1/2 inch x 2 inch welded to handrail posts to protect locations that contact grating.
 - Extrusions may be used in lieu of details shown, with approval by Engineer.
 - Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY DETAILS
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
NB EXPRESS LANE RECONSTRUCTION
OVERHEAD SIGN STRUCTURES
(BRIDGE MOUNTED)

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	390
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62302	*1818, ETC, 2324.6-1PIR-9			



36" PIPE COVER
SEE PLAN DETAIL 'A'

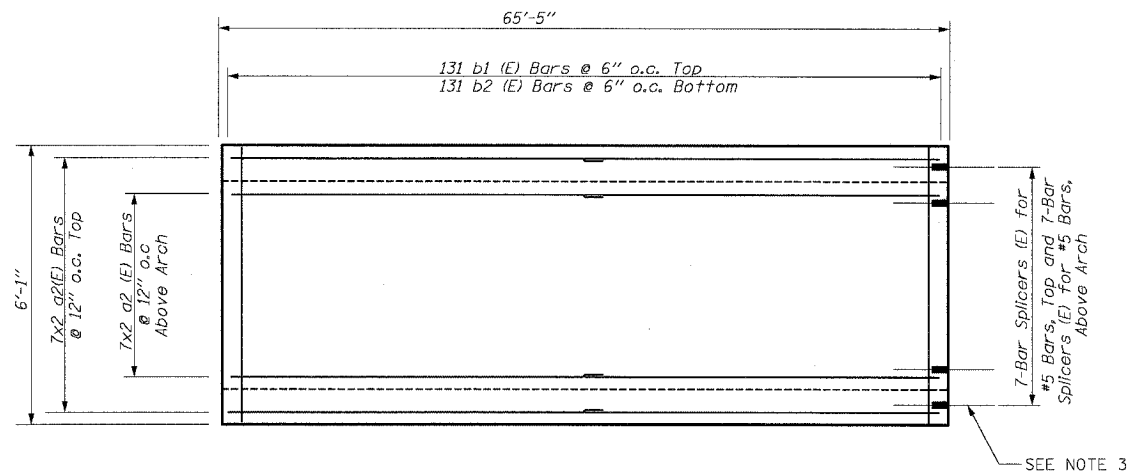
TOPOGRAPHIC PLAN

BILL OF MATERIAL

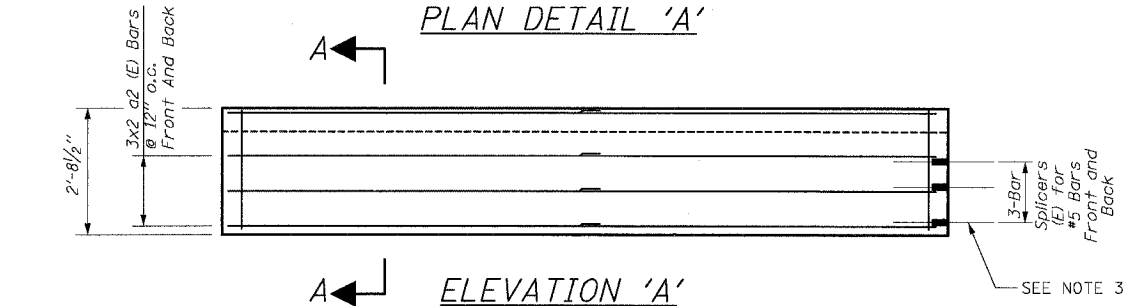
Bar	No.	Size	Length	Shape
a2(E)	40	#5	33'-8"	—
b1(E)	131	#5	10'-4"	□
b2(E)	131	#5	10'-3"	⤴
Reinforcement Bars, Epoxy Coated		Pounds	4,220	
Bar Splicers		Each	20	
Concrete Structures		Cu. Yd.	24.0	

NOTES:

- THE 2" POLYSTYRENE INSULATION SHALL BE INCLUDED IN THE COST OF 36" WATER MAIN PROTECTION CAP CONSTRUCTION. THE ESTIMATED QUANTITY IS 420 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 PROVIDE BAR SPLICERS AS SHOWN. INSTALL STAGE I PORTION AND PROVIDE STAGE II PORTION TO THE ENGINEER. PLUG THREADED COUPLER WITH PLASTIC NIPPLE OR H.S. BOLT FOR PROTECTION. COST INCLUDED WITH "BAR SPLICERS".



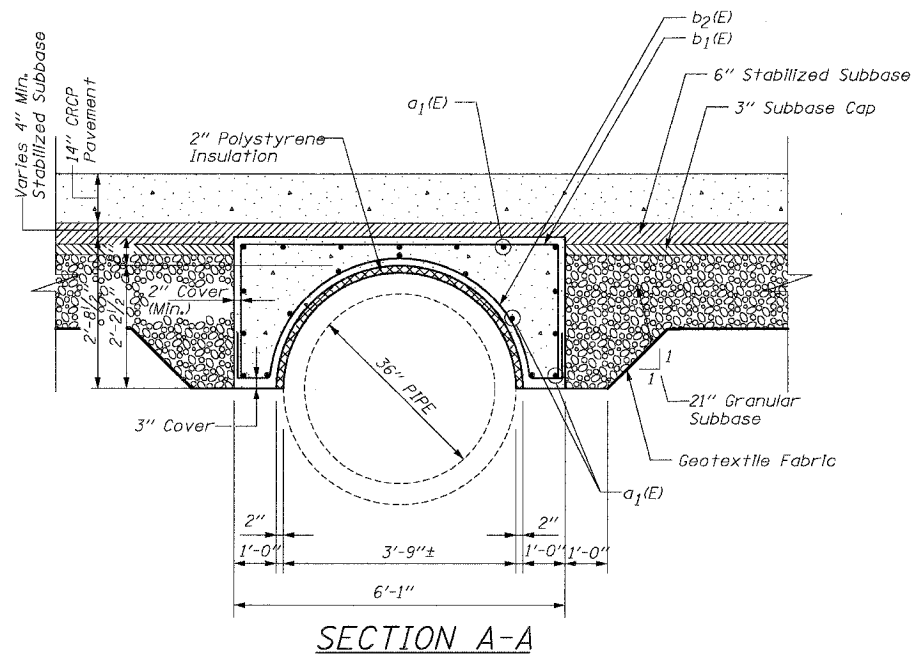
PLAN DETAIL 'A'



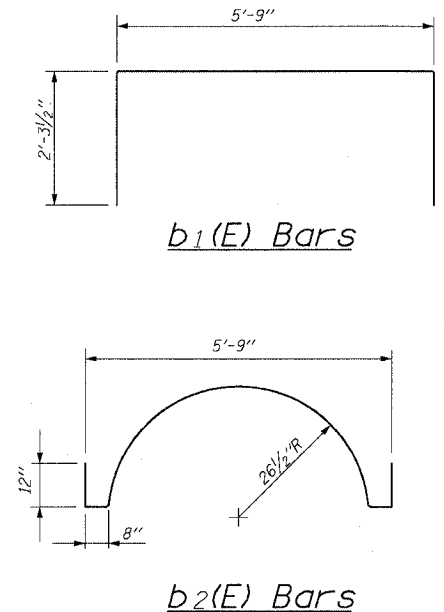
ELEVATION 'A'

NOTES:

- All bars designated (E) must be epoxy coated.
- All bars must be #5 bars with a minimum overlap of 2'-2".



SECTION A-A



b1(E) Bars

b2(E) Bars

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312 228 0100
www.bbainc.com

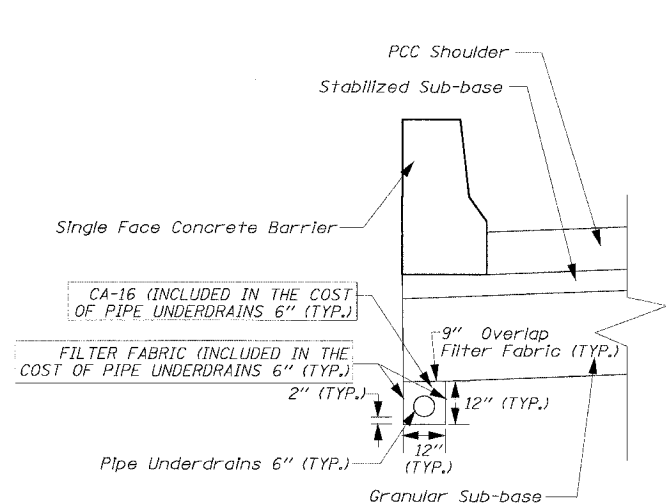
REVISIONS		DATE
NAME		
ADDENDUM 1		8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
CIVIL DETAILS - 46TH ST CROSSING
36" WATER MAIN PROTECTION CAP
SCALE: =NTS
DATE: 07/07/05
DRAWN BY: EGH
CHECKED BY: CBB

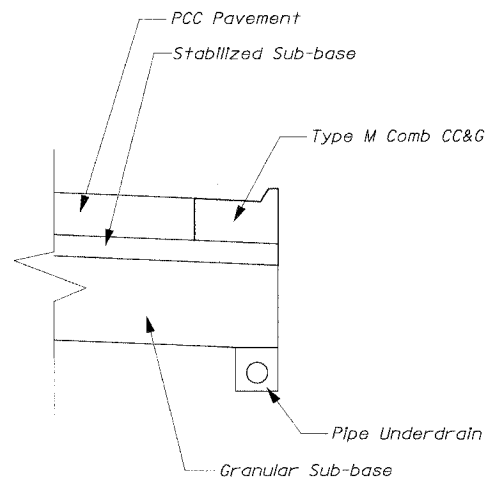
CDT-3

8-35209 AM
8/11/2005

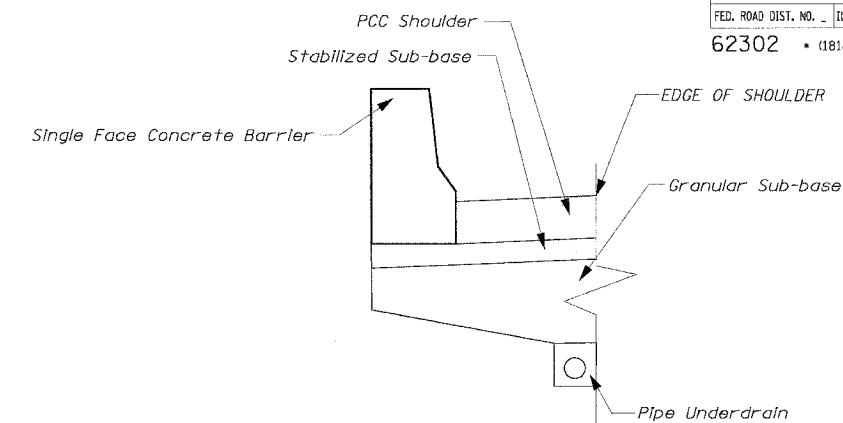
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	• (1818, ETC, 2324.6-1PIR-9			



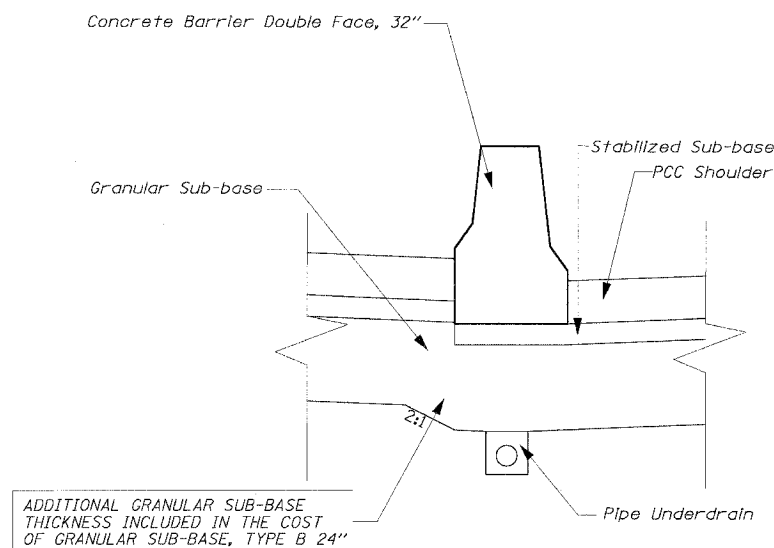
PIPE UNDERDRAINS 6" UNDER SINGLE FACE BARRIER WALL



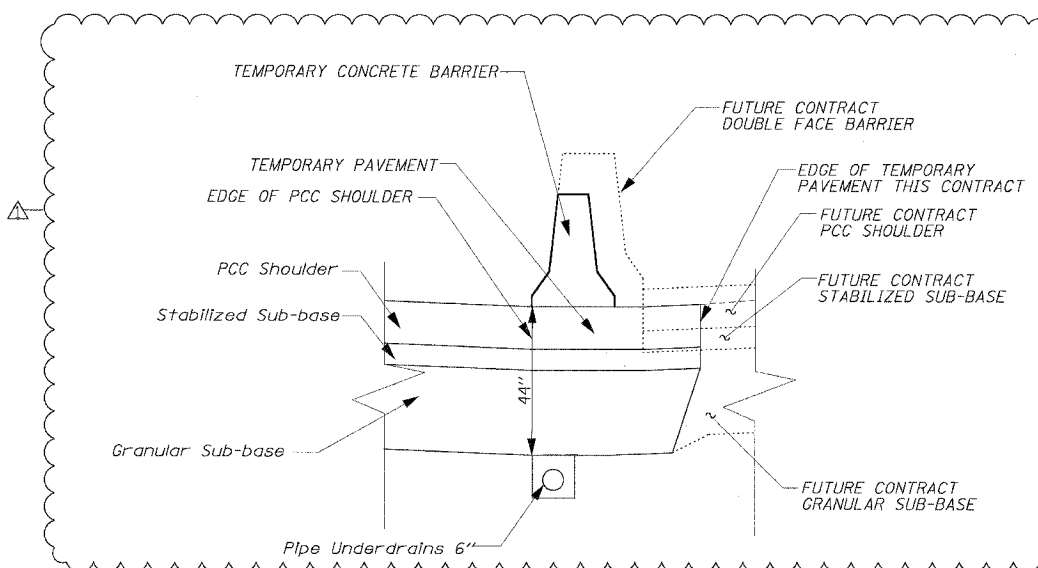
PIPE UNDERDRAINS 6" - UNDER TYPE M COMBINATION CONCRETE CURB & GUTTER



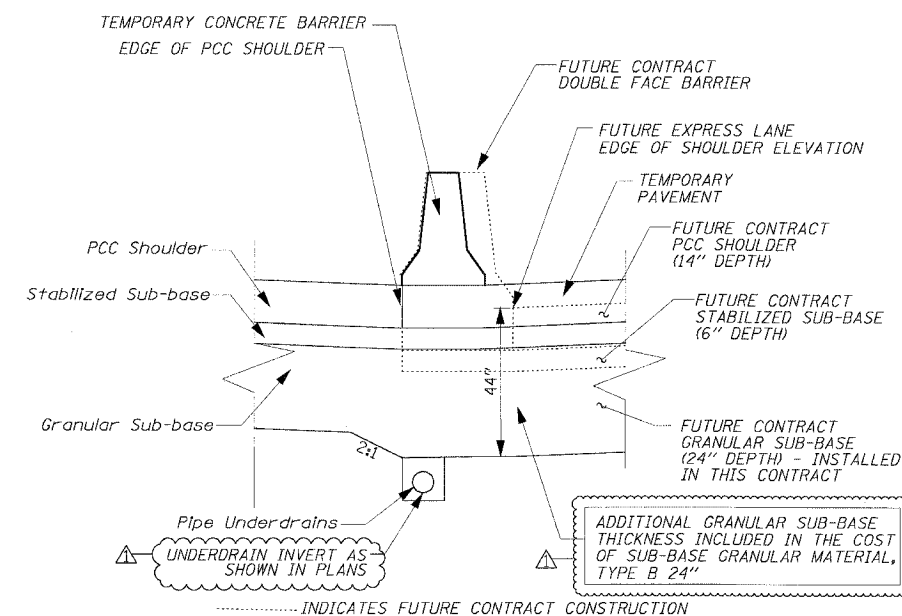
PIPE UNDERDRAINS 6" UNDER SHOULDER ADJACENT TO CTA



PIPE UNDERDRAINS 6" UNDER DOUBLE FACE BARRIER WALL



PIPE UNDERDRAINS 6" UNDER TEMPORARY CONCRETE BARRIER WALL SCENARIO A - FUTURE LOCAL LANES HIGHER THAN EXPRESS LANES



PIPE UNDERDRAINS 6" UNDER TEMPORARY CONCRETE BARRIER WALL SCENARIO B - FUTURE LOCAL LANES LOWER THAN EXPRESS LANES

NOTE:

GRANULAR SUB-BASE REFERENCES SUB-BASE GRANULAR MATERIAL, TYPE B 24" SOUTH OF STA. 1530+00, AND A COMBINATION OF SUB-BASE GRANULAR MATERIAL TYPE B 12" AND EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL NORTH OF STA. 1530+00 (SEE TYPICAL). THE NOTE "ADDITIONAL GRANULAR SUB-BASE THICKNESS INCLUDED IN THE COST OF SUB-BASE GRANULAR MATERIAL, TYPE B 24" IS ONLY APPLICABLE SOUTH OF STA. 1530+00. NORTH OF STA. 1530+00, ADDITIONAL SUB-BASE THICKNESS WILL BE PROVIDED UNDER THE ITEM EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL.

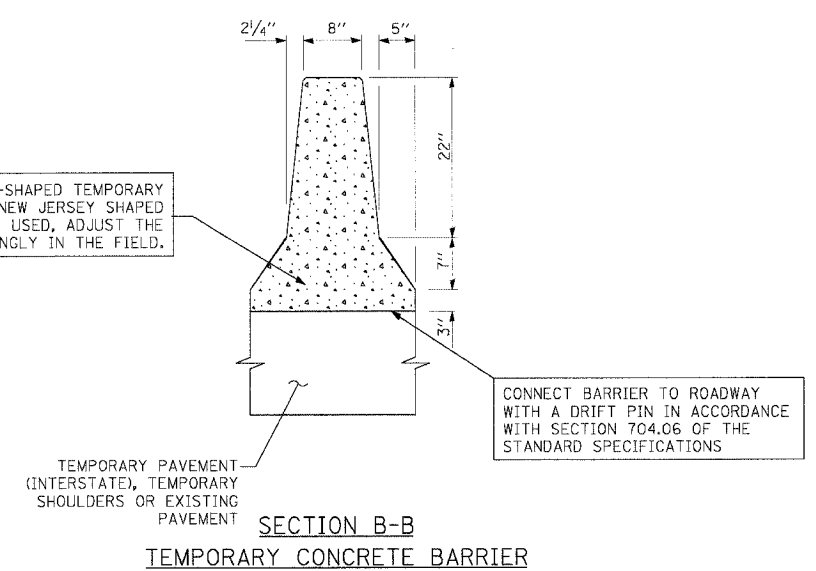
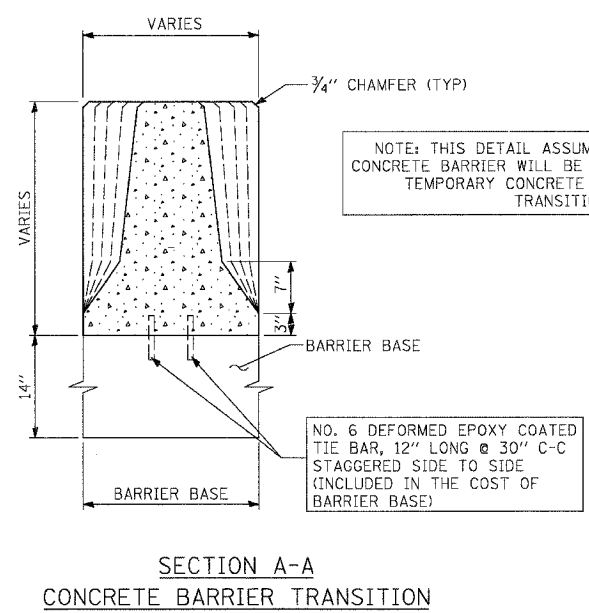
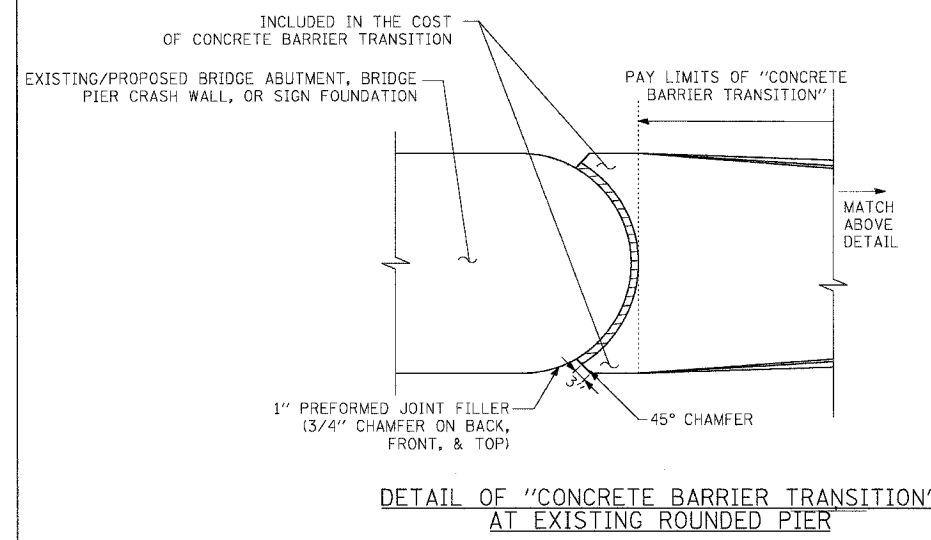
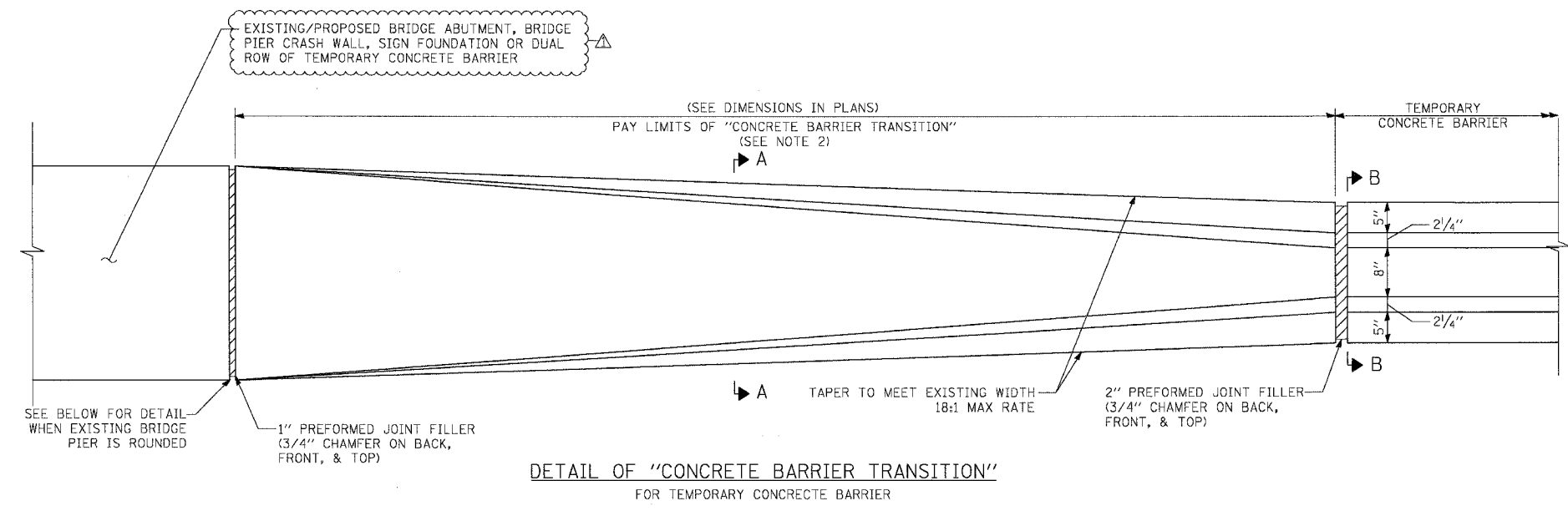
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 CIVIL DETAILS
 PIPE UNDERDRAINS 6"
 SCALE: NONE
 DATE: 7/7/05
 DRAWN BY: TAI
 CHECKED BY: PJM

CDT-13

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- NOTE:
1. ALL TRANSITIONS PAID FOR AS CONCRETE BARRIER TRANSITION.
 2. LENGTHS PROVIDED IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR MUST ADJUST THE LENGTH OF CONCRETE BARRIER TRANSITION AS NECESSARY TO MEET TEMPORARY CONCRETE BARRIER SEGMENTS USED.

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 CONCRETE BARRIER TRANSITION
 (SHEET 3 OF 3)

SCALE: NONE
 DATE: 7/7/05

DRAWN BY: TAI
 CHECKED BY: PJM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	409
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• 1818, ETC, 2324.6-10R-9				62302

CTA BARRIER WALL LOCATION AND MODIFICATION TABLE

STATION	CONTRACT 62300 - NORTH BOUND							CONTRACT 62302 - SOUTH BOUND						
	Soldier Piles			Proposed T / Shoulder At or Above Existing		Proposed T / Shoulder Below Existing		Soldier Piles			Proposed T / Shoulder At or Above Existing		Proposed T / Shoulder Below Existing	
	Size	Length	Max. Spacing	Location	Modification	Location	Modification	Size	Length	Max. Spacing	Location	Modification	Location	Modification
35th St.	W12x120	30'	5'-0"	Sta. 2609+61 to 2625+07	8" Facing	-----	-----	W12x120	30'	5'-0"	Sta. 1609+39 to 1624+89	6" Facing	-----	-----
47th St.	W12x106	20'	5'-0"	-----	-----	Sta. 2529+46 to 2540+38	1'-4 1/2" Facing	W12x72	20'	6'-6"	Sta. 1529+36 to 1537+94	6" Facing	-----	-----
55th St.	W12x106	20'	8'-0"	-----	-----	Sta. 2476+01 to 2484+81	1'-4 1/2" Facing	W12x106	20'	8'-0"	-----	-----	Sta. 1475+84 to 1484+69	1'-4 1/2" Facing
69th St.	W12x72	20'	8'-0"	Sta. 2372+94 to 2379+56	②	-----	-----	W12x106	20'	8'-0"	Sta. 1372+75 to 1374+50	①	Sta. 1374+50 to 1378+53	①

- ① Replace Exist. 32" Barrier with Single Face Barrier, 42" Special
- ② Reface Existing CTA Barrier Wall with Vertical Facing

GENERAL NOTES:

1. Utility locations shown on these plans may not be correct or complete. The contractor shall coordinate construction activities with the respective utilities of the city of Chicago. Before starting any excavation, the contractor shall call "cuan" (Chicago Utility Alert Network) at 312-744-7000 for field locations of buried electric, telephone, and gas facilities (48 hour notification is required). Contact the department of water management permit section at (312) 747-7893 for water and sewer locations.
2. In locations where the main sewers, drainage structures, public, and private drain connections are disturbed or damaged during construction by the contractor, it will be the contractor's responsibility to restore and replace the damaged facilities at his/her own expense to the satisfaction of the department of water management. The sewer flows must be maintained at all times.
3. In locations where pilings/drilled shafts are being proposed in the vicinity of the existing sewer facilities, a licensed structural engineer should approve construction methods of support in order to maintain the structural integrity of the city's sewer system.
4. The location of various items such as pavement, barrier walls and drainage structures built in contracts under construction during the preparation of these plans is based on the published contract plan drawings available during design. The contractor must field verify limits, locations and elevations of these previously constructed items.
5. The contractor shall use care in grading or excavating near any and all existing items which will not be removed. Any damage done to existing items by the contractor shall be repaired by the contractor at the contractor's own expense.
6. The contractor shall take all necessary safety precautions to protect and provide access to abutting CTA property, utilities and vehicular traffic.
7. It shall be the contractor's responsibility to ensure that no gap remains between proposed CTA fencing or where proposed CTA fencing terminates and existing CTA fence remains in place.
8. Hammer driving of piles will not be allowed. All piles must be vibrated into place.
9. Plan dimensions and details relating to existing structures 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 or a change in the scope of work. However the Contractor will be paid for the quantity actually furnished at the unit price for the work.
10. All construction joints shall be bonded.
11. All exposed concrete edges shall have a 3/4" by 45° chamfer except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of 1 foot below the finished ground line.
12. A protective coat shall be applied within the limits shown on the plans according to Section 503.19 of the Standard Specifications.
13. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
14. Reinforcement bars designated "(E)" shall be epoxy coated.

15. For Existing Barrier Wall Modifications for Proposed T / Shoulder Below Existing, See Sheets B2 and B3.
16. For Existing Barrier Wall Modifications for Proposed T / Shoulder At or Above Existing, See Sheet B4 and B5.
17. For Existing Barrier Wall Modifications for 69th St. Station (SB) See Sheet B6.
18. For Existing Barrier Wall Modifications for 69th St. Station (NB) See Sheet B7.
19. For Refaced Barrier to Pier, Transition Details (Taper), Proposed T / Shoulder Below Existing, See Sheet B8.
20. For Refaced Barrier to Pier, Transition Details (No Taper), Proposed T / Shoulder Below Existing, See Sheet B9.
21. For Refaced Barrier to Pier, Transition Details (Taper), Proposed T / Shoulder At or Above Existing, See Sheet B10.
22. For Refaced Barrier to Pier, Transition Details (No Taper), Proposed T / Shoulder At or Above Existing, See Sheet B11.
23. For New 42" Barrier to Vert. Refaced Barrier, Transition Details (Taper), Proposed T / Shoulder At or Above Existing, See Sheet B12.
24. For Vert. Refaced Barrier to Pier, Transition Details (No Taper), Proposed T / Shoulder At or Above Existing, See Sheet B13.
25. For Refaced Barrier to New 42" Barrier, Transition Details, Proposed T / Shoulder Below Existing, See Sheet B14.
26. For Refaced Barrier to New 42" Barrier, Transition Details, Proposed T / Shoulder At or Above Existing, See Sheet B15.
27. For New 42" Barrier to Pier, Transition Details, Proposed T / Shoulder Below or Above Existing, See Sheet B16.
28. For Refaced Barrier to New Sign Structure, Transition Plan, Elevation and Details, Proposed T / Shoulder Below Existing, See Sheets B17 and B18.
29. If the Contractor chooses to alter the temporary soldier pile and lagging system shown in the Plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

DESIGN STRESSES:

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

CTE | AECOM

REVISIONS	
NAME	DATE
MJP	8-12-05

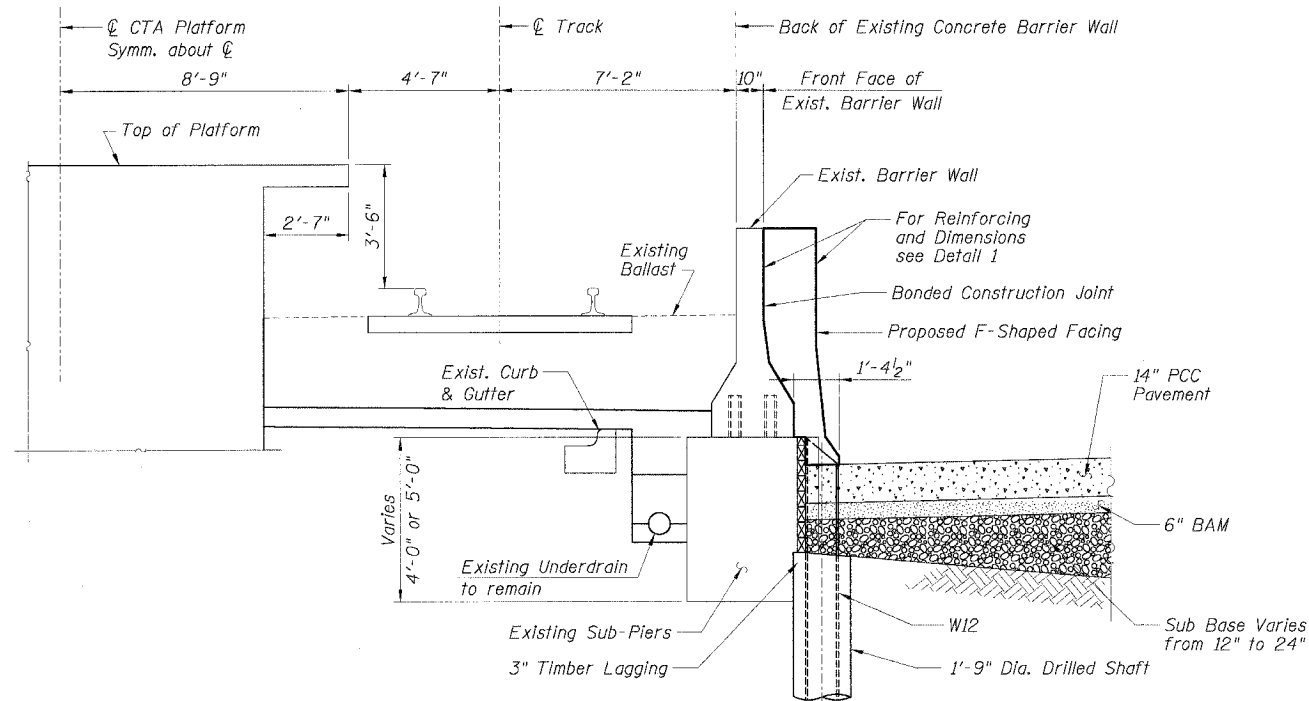
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
**EXISTING BARRIER WALL
AT CTA STATIONS
LOCATION AND MODIFICATION TABLE**
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: RDP

Sheet B1 of 18

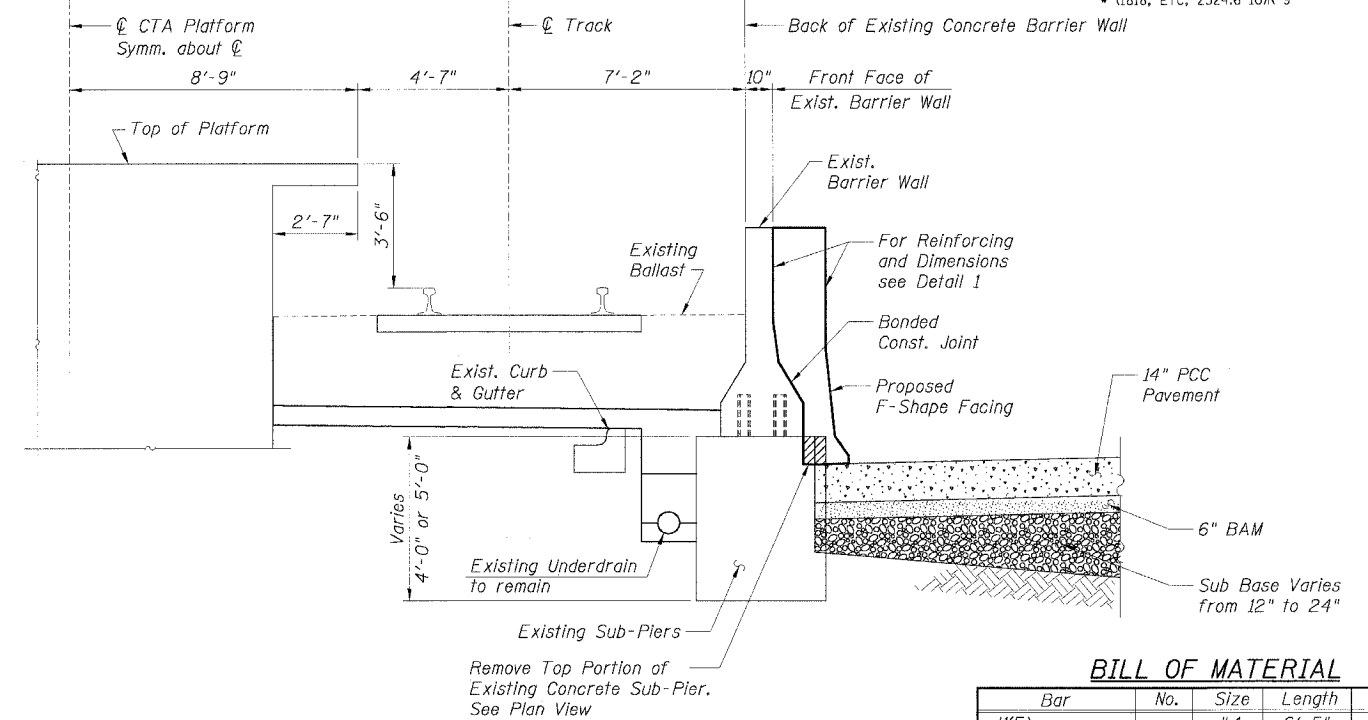
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 598	SHEET NO. 410
STA. •		TO STA. •		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT • (1818, ETC, 2324.6-101R-9				
				62302



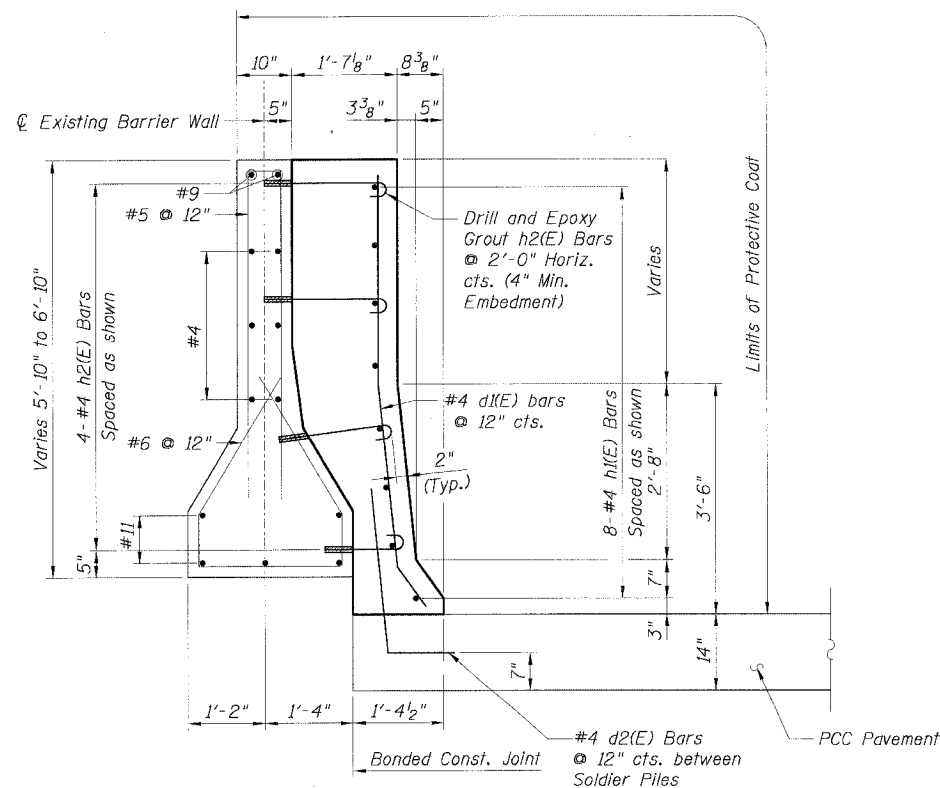
TYPICAL SECTION
BETWEEN SUB-PIERS



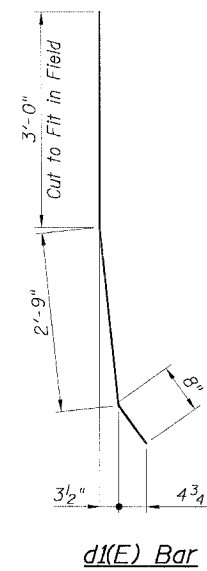
TYPICAL SECTION
AT SUB-PIER

BILL OF MATERIAL

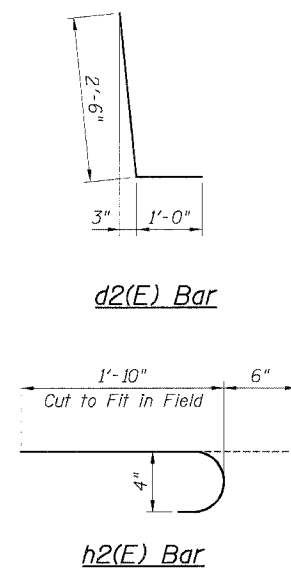
Bar	No.	Size	Length	Shape
d1(E)		#4	6'-5"	┌
d2(E)		#4	3'-6"	└
h1(E)		#4		—
h2(E)		#4	2'-4"	└
Item	Unit	Quantity		
Furnishing Soldier Piles, W12x	Foot			
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.			
Untreated Timber Lagging	Sq. Ft.			
Concrete Removal	Cu. Yd.			
Reinforcement Bars, Epoxy Coated	Pound			
Concrete Superstructure	Cu. Yd.			
Protective Coat	Sq. Yd.			



DETAIL 1



d1(E) Bar



h2(E) Bar

LEGEND:

	Concrete Removal
	PCC Pavement
	BAM
	Sub Base
	Earth

NOTES:

- Drilling and grouting of #4 h2(E) bars shall be in accordance with Section 584 of the Standard Specifications.
- The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h2(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
- #4 d2(E) bars shall be seated in their final position prior to the placement of the concrete shoulder. Bars shall be not mucked into place.
- Provide joints in facing to match those in the existing barrier wall. See Sheet B7 for details.
- Minimum lap length for #4 bars shall be 1'-8".
- For Typical Plan, see Sheet B3.
- For Existing Concrete Repair Details, see Sheet B3.
- For Facing Details at Existing Light Pole Foundation, see Sheet B5.

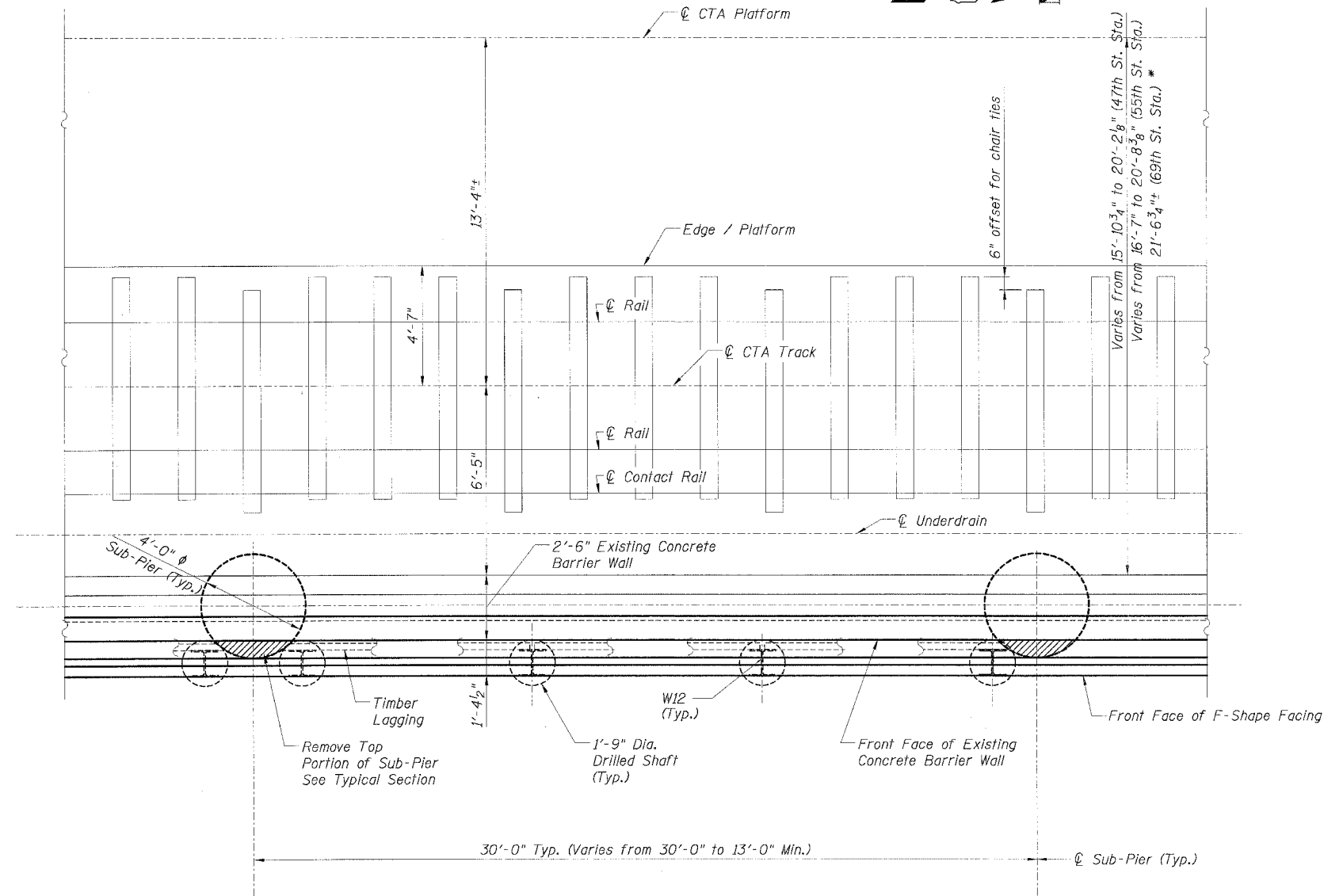
Sheet B2 of 18

REVISIONS	
NAME	DATE
MJP	8-12-05

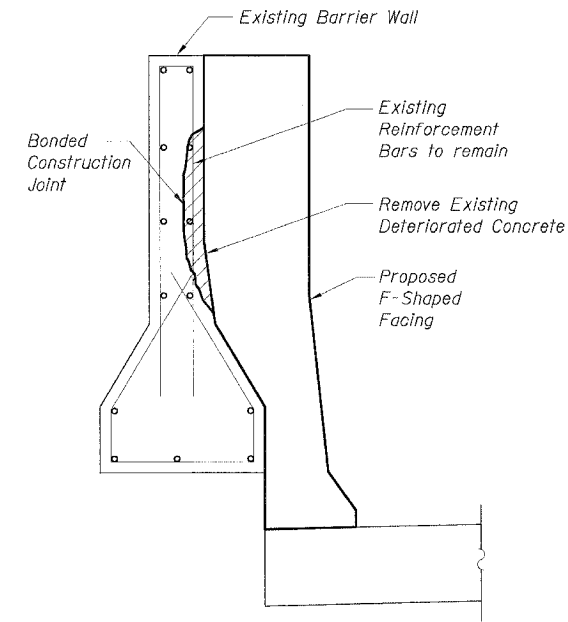
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
TYPICAL SECTIONS & DETAILS
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	411
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
• (1818, ETC, 2324.6-101R-9			62302	



PLAN - (NORTH BOUND SHOWN)
(SOUTH BOUND SIMILAR)



CONCRETE REPAIR DETAIL

NOTES:

- The Contractor shall remove deteriorated concrete to sound concrete at all locations designated by the Engineer in accordance with Section 501.03 of the Standard Specifications. Undercut exposed reinforcement bars by 3/4" to provide clearance between existing reinforcement bars and the remaining concrete.
- Exposed existing reinforcement bars shall remain in place and be blast cleaned to gray metal. Reinforcement bars that have been cut or have lost 25% or more of their original cross sectional area shall be supplemented by new epoxy coated reinforcement bars.
- The resulting voids shall be blast cleaned before applying a bonding agent and filled with Concrete Superstructure.
- The cost of removing deteriorated concrete, supplementing and cleaning existing reinforcement bars, blast cleaning and furnishing and placing a bonding agent and concrete shall be included in the cost per cubic yard for Concrete Superstructure.
- For Facing Details and Sections see Sheet B2.

LEGEND:

Concrete Removal

CTE | AECOM

REVISIONS	
NAME	DATE
MJP	8-12-05

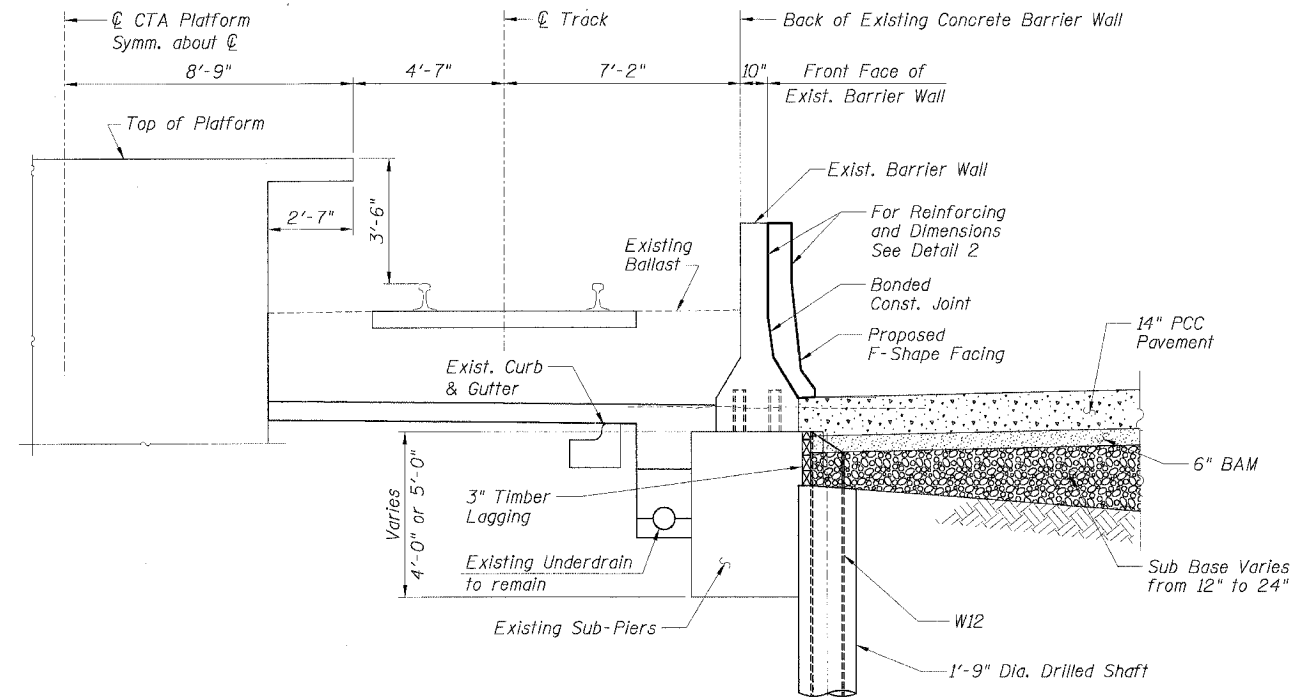
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
TYPICAL PLAN
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: RDP

Sheet B3 of 18

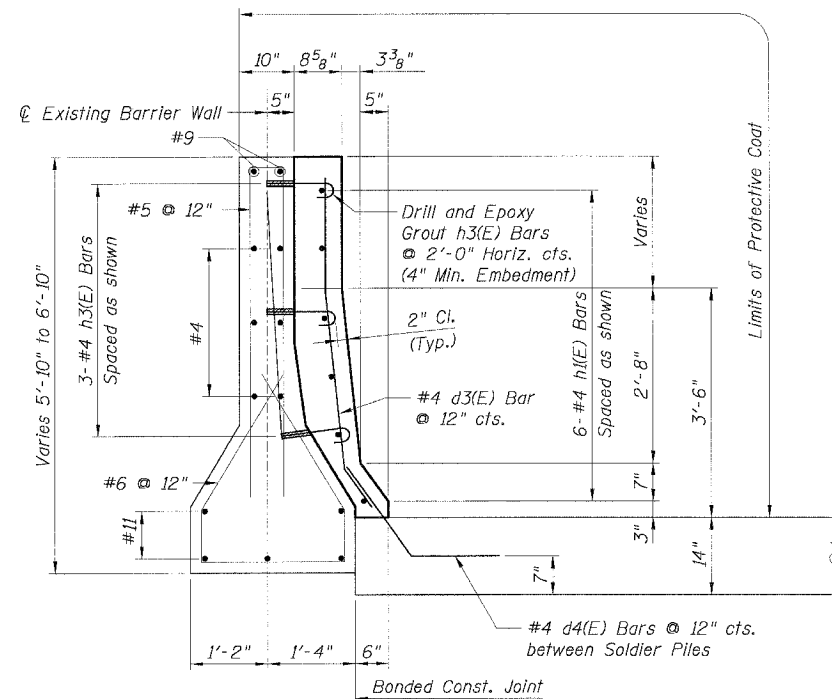
05/09/25 AF 8/10/2005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

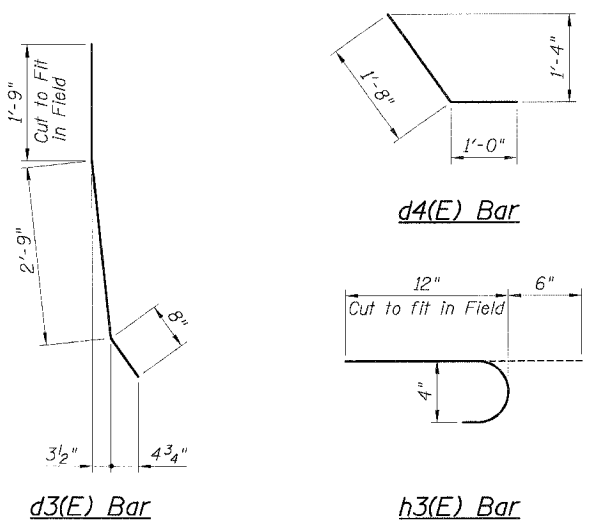
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	412
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1818, ETC, 2324.6-10R-9) 62302				



TYPICAL SECTION
BETWEEN SUB-PIERS



DETAIL 2



LEGEND:

	PCC Pavement
	BAM
	Sub Base
	Earth

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d3(E)		#4	5'-2"	—
d4(E)		#4	2'-8"	—
h1(E)		#4		—
h3(E)		#4	1'-6"	—
Item	Unit	Quantity		
Furnishing Soldier Piles, W12x—	Foot			
Drilling and Setting				
Soldier Piles (in Soil)	Cu. Ft.			
Untreated Timber Lagging	Sq. Ft.			
Reinforcement Bars, Epoxy Coated	Pound			
Concrete Superstructure	Cu. Yd.			
Protective Coat	Sq. Yd.			

NOTES:

1. Drilling and grouting of #4 h3(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h3(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. #4 d4(E) bars shall be seated in their final position prior to the placement of the concrete shoulder. Bars shall not be mucked into place.
4. Provide joints in facing to match those in the existing barrier wall. See Sheet B7 for details.
5. Minimum lap length for #4 bars shall be 1'-8".
6. For Typical Plan, see Sheet B5.
7. For Existing Concrete Repair Details, see Sheet B3.
8. For Facing Details at Existing Light Pole Foundation, see Sheet B5.

REVISIONS	
NAME	DATE
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Sheet B4 of 18
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER AT OR ABOVE EXISTING
TYPICAL SECTIONS & DETAILS
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: RDP

CTE | AECOM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

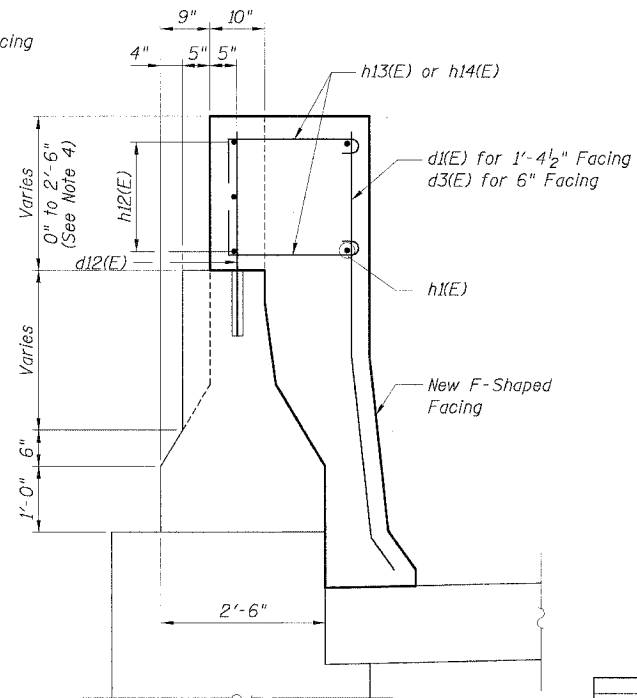
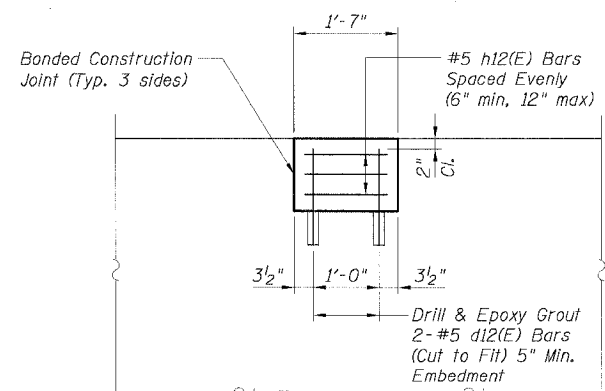
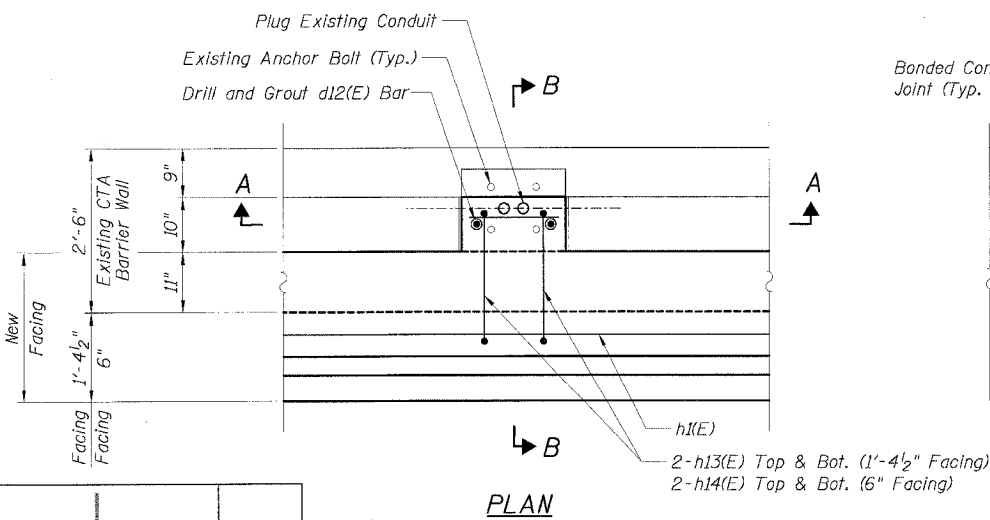
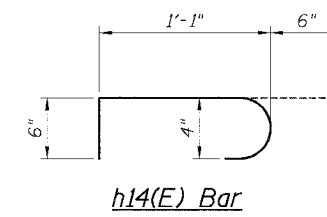
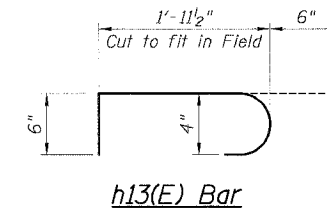
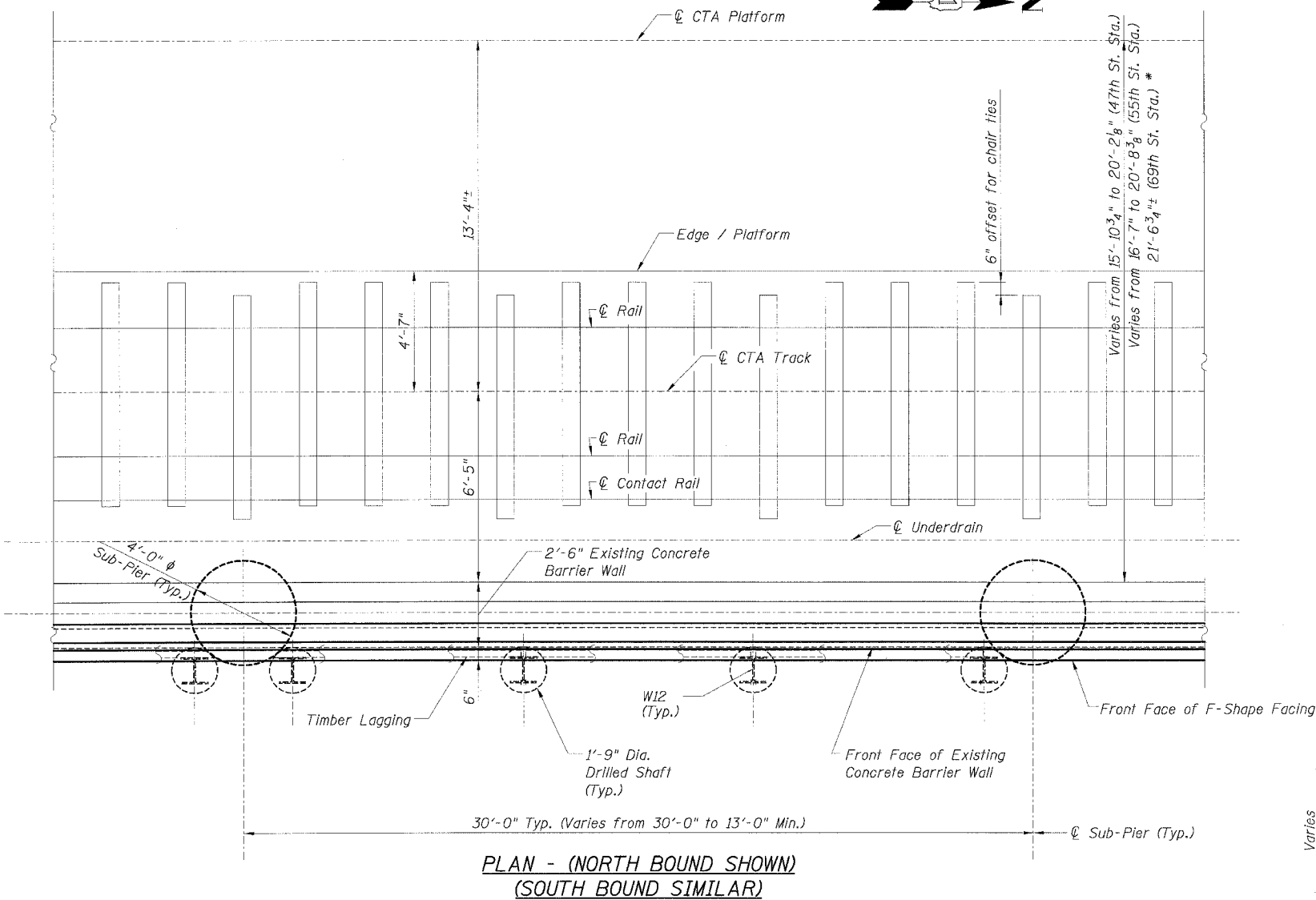
F.A.I. RYE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	598	413
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	
* (1818, ETC, 2324.6-10)R-9			62302	

BAR SCHEDULE
FOR 1'-4 1/2" FACING @ ONE LIGHT FDN.

Bar	No.	Size	Length	Shape
d12(E)	2	#5	2'-9"	—
h12(E)	3	#4	1'-4"	—
h13(E)	4	#4	3'-0"	⌋

BAR SCHEDULE
FOR 6" FACING @ ONE LIGHT FDN.

Bar	No.	Size	Length	Shape
d12(E)	2	#5	2'-9"	—
h12(E)	3	#4	1'-4"	—
h14(E)	4	#4	2'-1"	⌋



- NOTES:**
- Existing anchor bolts shall remain in place and be blast cleaned to gray metal.
 - Drilling and grouting #4 d12(E) bars shall be in accordance with Section 584 of the Standard Specifications.
 - The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 d12(E) bars and blast cleaning existing anchor bolts shall be included in the cost per cubic yard for Concrete Superstructure.
 - For depth of existing light pole notch less than 10", do not use reinforcement bars.
 - Cast new concrete monolithically with new F-Shape Facing.
 - For Facing Details and Sections see Sheet B2.

Sheet B5 of 18

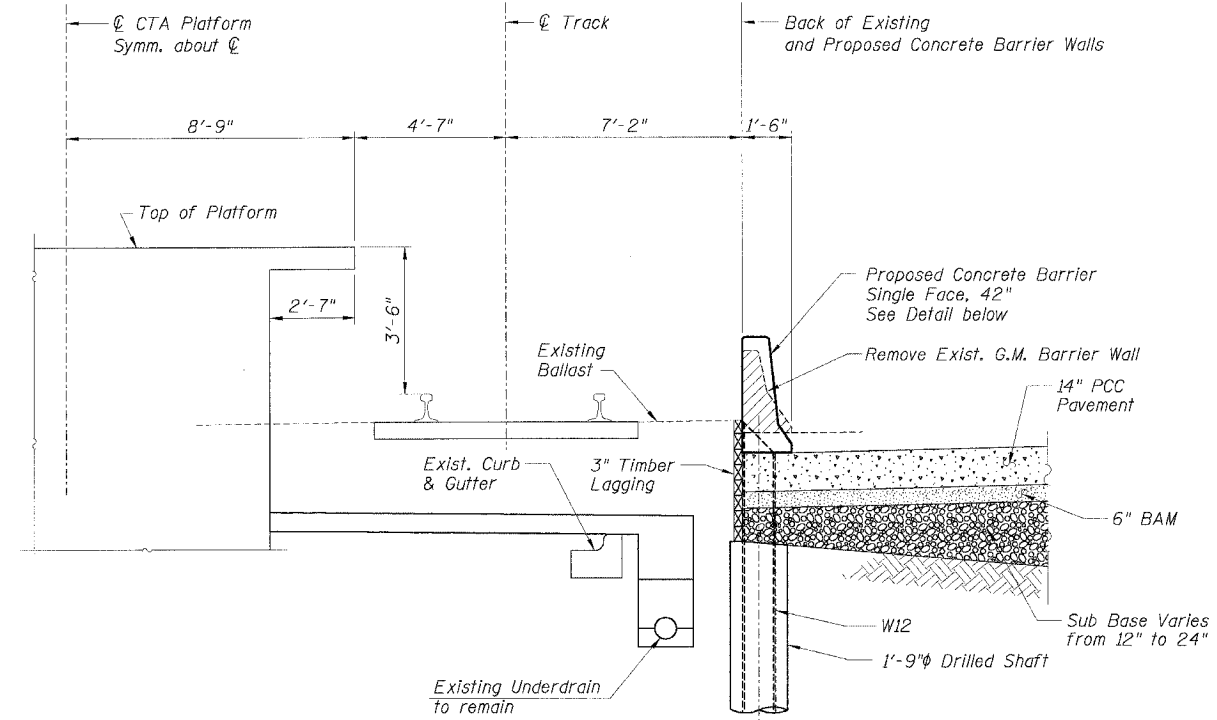
REVISIONS	
NAME	DATE
MJP	8-12-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER AT OR ABOVE EXISTING
TYPICAL PLAN
SCALE: None DRAWN BY: KWT/CHD
DATE: July 7, 2005 CHECKED BY: RDP

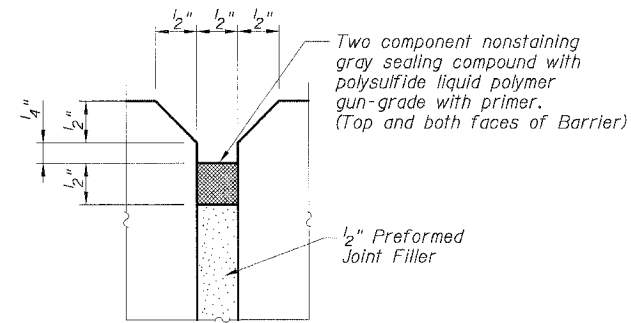
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	414
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
(1816, ETC., 2324.6-10R-9		62302		



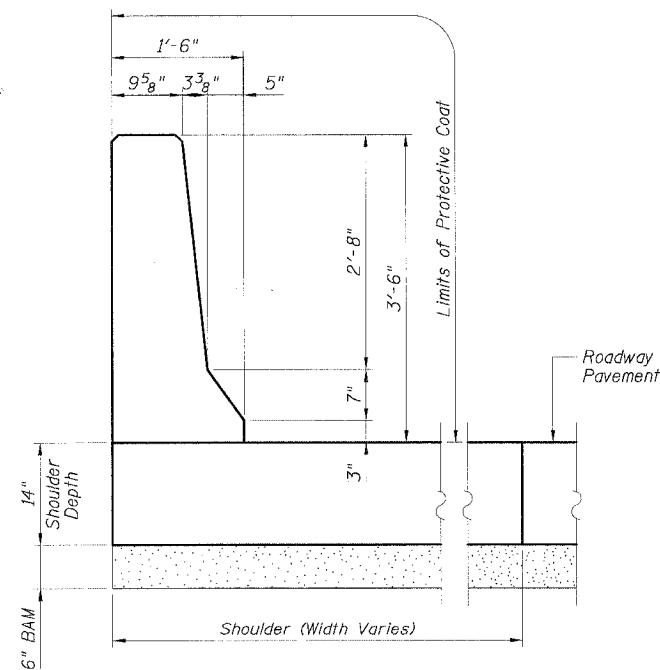
TYPICAL SECTION
AT 69TH ST. STATION (SB)



EXPANSION JOINT DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Item	Unit	Quantity		
Concrete Barrier Removal	Foot			
Furnishing Soldier Piles W12x	Foot			
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.			
Untreated Timber Lagging	Sq. Ft.			
Concrete Barrier Single Face, 42" (Special)	Foot			
Protective Coat	Sq. Yd.			



CONCRETE BARRIER
SINGLE FACE, 42"
(DIMENSIONS)

NOTES:

- See "Concrete Barrier Single Face, 42" (Special)" for reinforcing details.
- Provide construction joints in the Single Face, 42" Barrier on maximum of 30'-0" centers.
- Provide 1/2" expansion joints in the Concrete Barrier Single Face, 42" on maximum of 90'-0" centers.
- The cost of furnishing and installing sealing compound shall be included in the cost per cubic yard for Concrete Barrier Single Face, 42" (Special).

LEGEND:

	Concrete Removal
	PCC Pavement
	BAM
	Sub Base
	Earth

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REVISIONS		
M.I.P.	NAME	DATE
		8-12-05

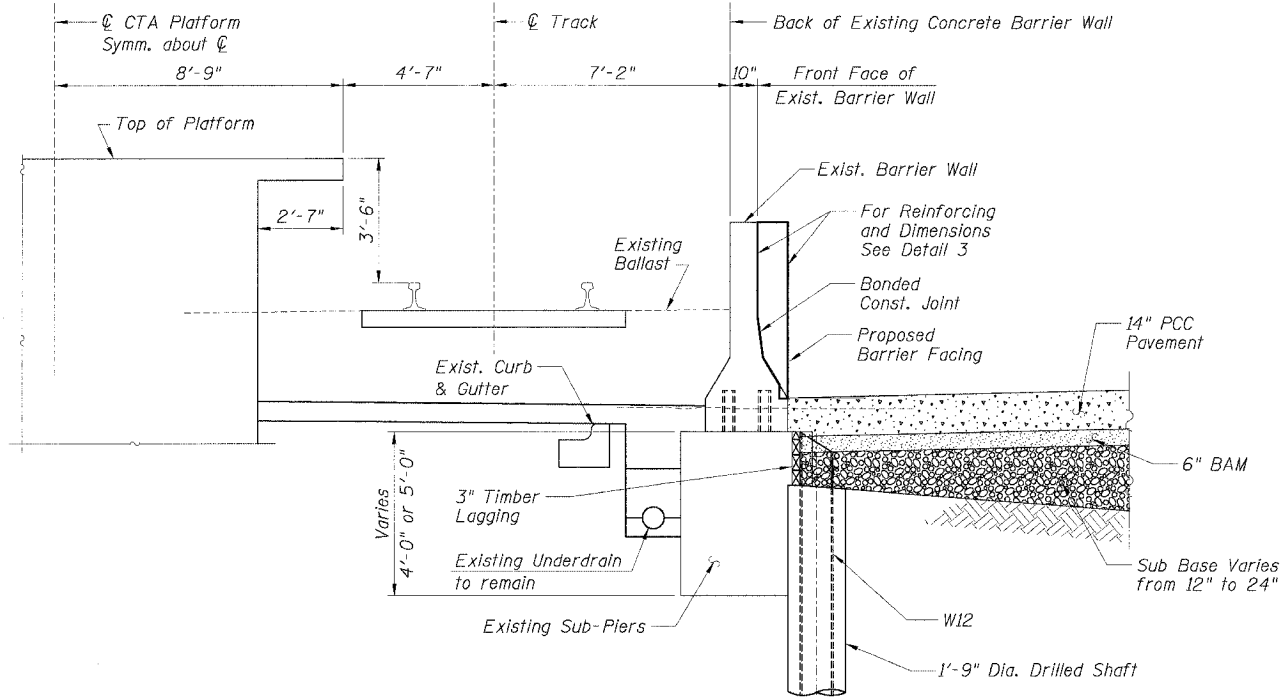
Sheet B6 of 18

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
TYPICAL SECTIONS & DETAILS
FOR 69TH ST. STATION (SB)

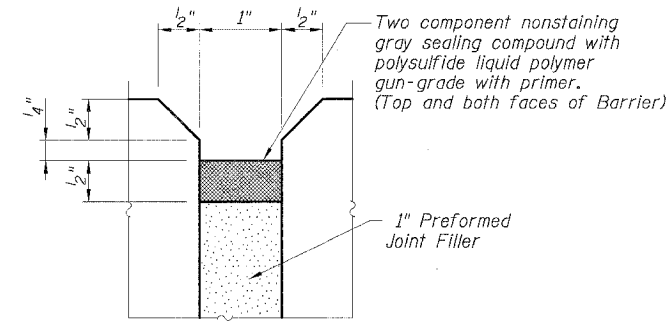
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DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	415
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (181B, ETC, 2324.6-10R-9) 62302				



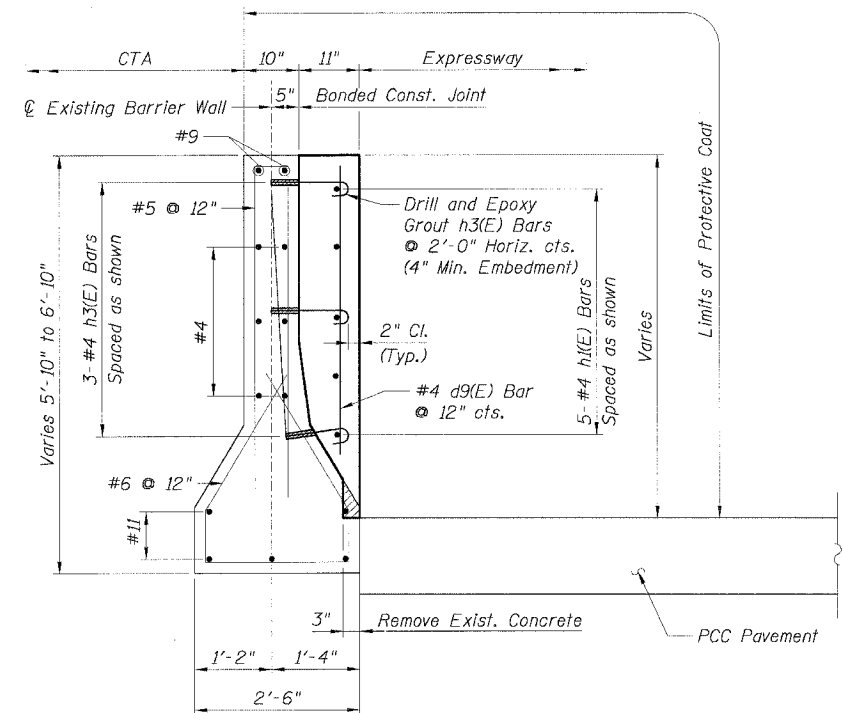
TYPICAL SECTION
BETWEEN SUB-PIERS
AT 69TH ST. STATION (NB)



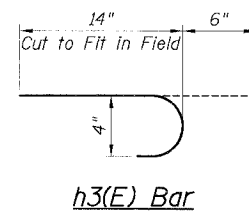
EXPANSION JOINT DETAIL
AT EXISTING JOINTS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d9(E)		#4	4'-2"	—
h1(E)		#4		—
h3(E)		#4	1'-8"	—
Item		Unit	Quantity	
Furnishing Soldier Piles W12x		Foot		
Drilling and Setting Soldier Piles (in Soil)		Cu. Ft.		
Untreated Timber Lagging		Sq. Ft.		
Concrete Removal		Cu. Yd.		
Reinforcement Bars, Epoxy Coated		Pound		
Concrete Superstructure		Cu. Yd.		
Protective Coat		Sq. Yd.		



DETAIL 3



h3(E) Bar

LEGEND:

	Concrete Removal
	PCC Pavement
	BAM
	Sub Base
	Earth

NOTES:

1. Drilling and grouting of #4 h3(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h3(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. Provide joints in facing to match those in the existing barrier.
4. The cost of furnishing and installing sealing compound shall be included in the cost per cubic yard for Concrete Superstructure.
5. Minimum lap length for #4 bars shall be 1'-8".
6. For Existing Concrete Repair Details see Sheet B3.
7. For Facing Details at Existing Light Pole Foundation see Sheet B5.

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REVISIONS	
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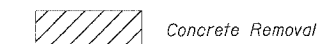
Sheet B7 of 18
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
TYPICAL SECTIONS & DETAILS
FOR 69th ST. STATION (NB)
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: ROP

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	416
STA.	TO STA.		FED. AID PROJECT	
			• (1818, ETC, 2324.6-10R-9	
			62302	

BILL OF MATERIAL FOR ONE TRANSITION

Bar	No.	Size	Length	Shape
d1(E)	17	#4	6'-5"	
d6(E)	50	#4	6'-0"	
h6(E)	112	#4	1'-9"	
h7(E)	8	#4	29'-0"	
h8(E)	16	#4	21'-5"	
Item		Unit	Quantity	
Reinforcement Bars, Epoxy Coated		Pound	788	
Concrete Superstructure		Cu. Yd.	18.0	
Protective Coat		Sq. Yd.	57	
Concrete Removal		Cu. Yd.	1.1	

LEGEND:



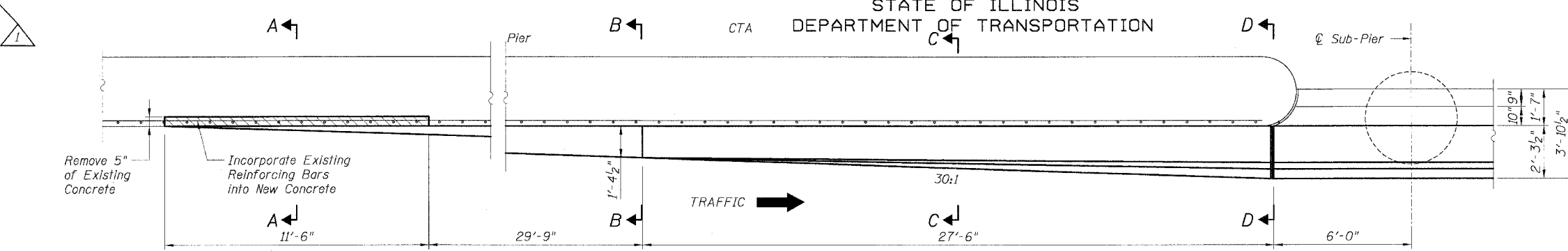
NOTES:

1. Drilling and grouting of #4 h2(E) and h6(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting h2(E) and h6(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. Exposed existing reinforcement bars shall remain in place and be blast cleaned to gray metal. Reinforcement bars that have been cut or have lost 25% or more of their original cross sectional area shall be supplemented by new epoxy coated reinforcement bars.
4. The cost of supplementing and cleaning existing reinforcement bars shall be included in the cost per cubic yard for Concrete Superstructure.
5. For Refaced Barrier Wall Details see Sheets B2 and B3.
6. For locations of Transition, see Roadway Plans.

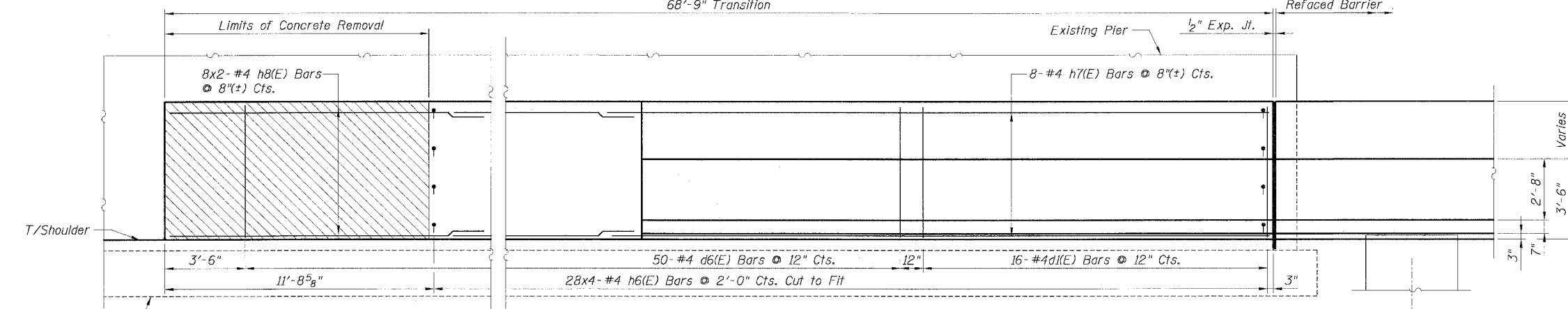
Sheet B8 of 18

REVISIONS	
NAME	DATE
MJP	8-12-05

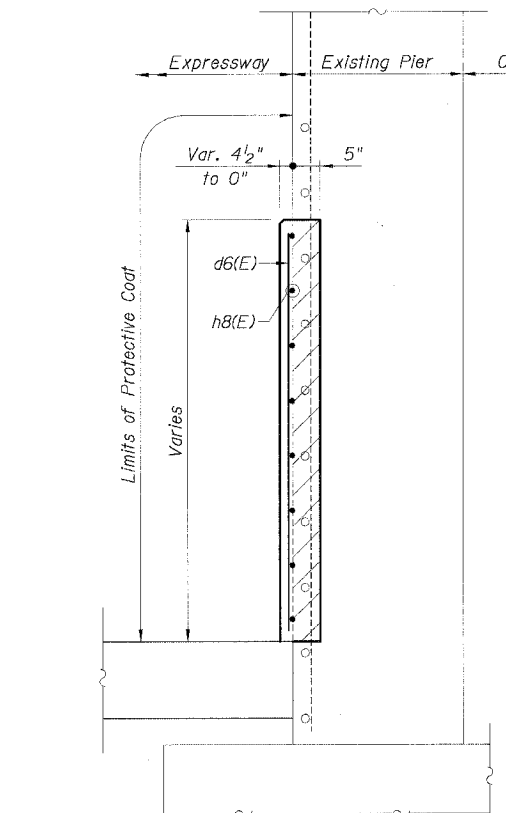
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
REFACED BARRIER TO PIER
TRANSITION DETAILS (TAPER)
SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: RDP



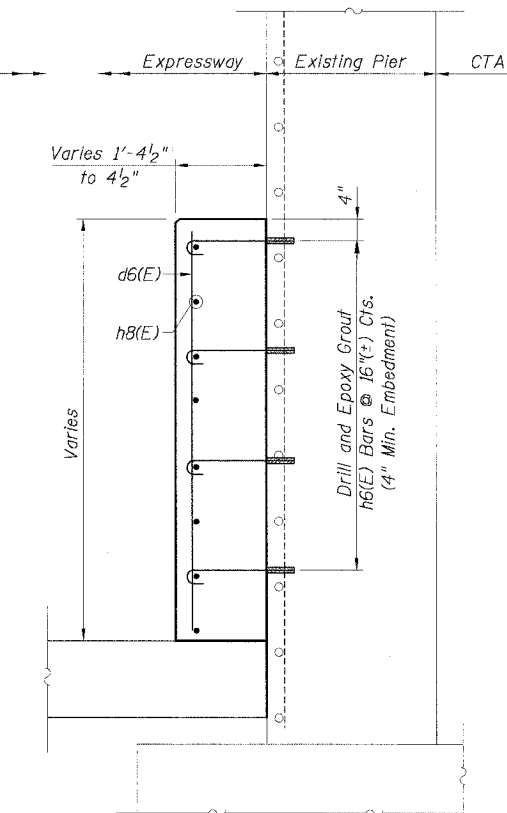
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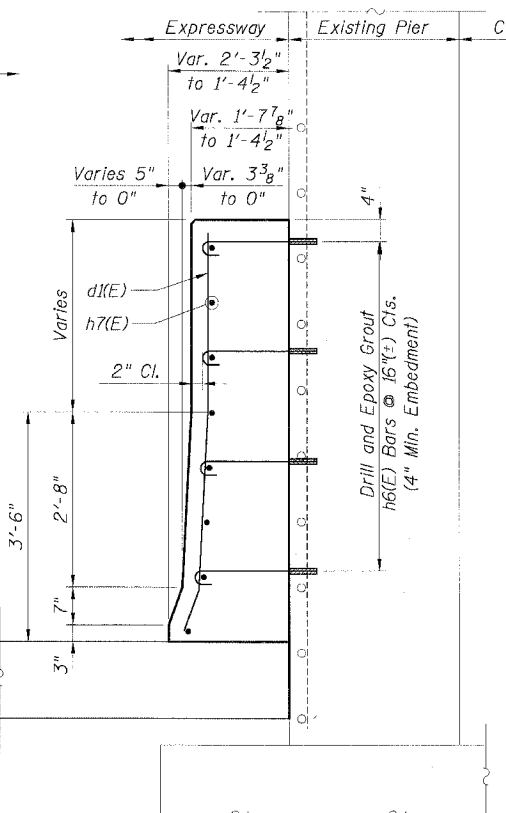
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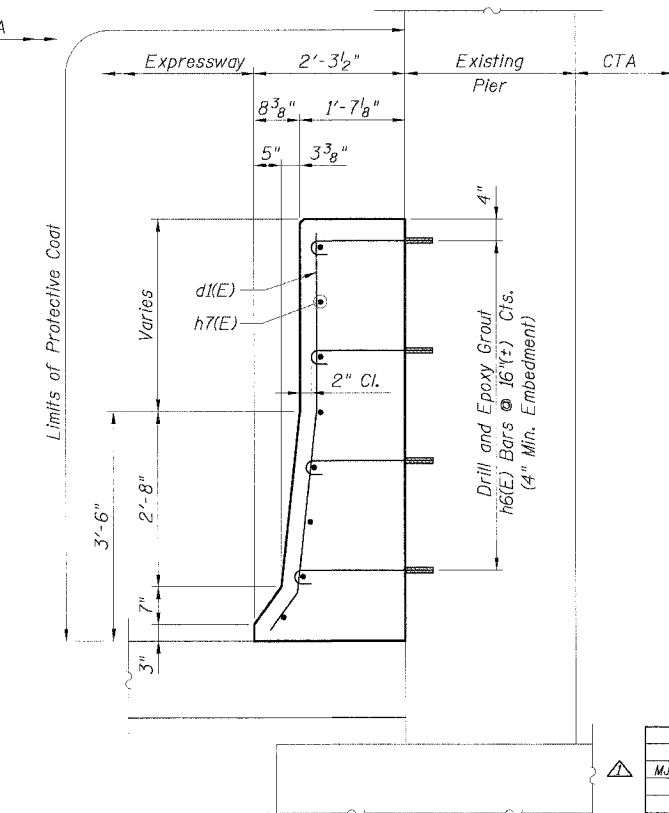
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

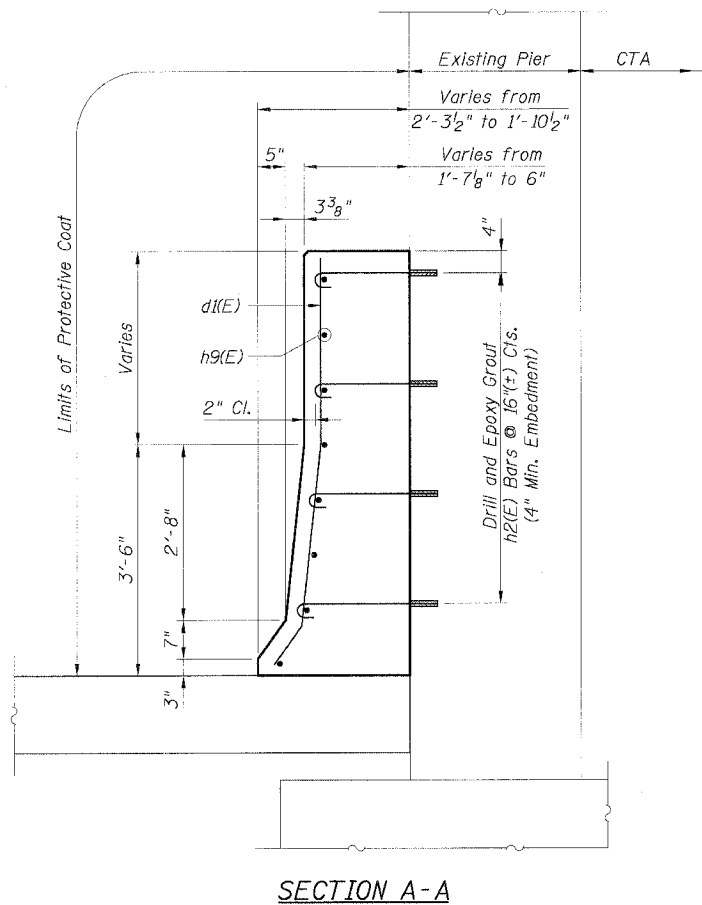
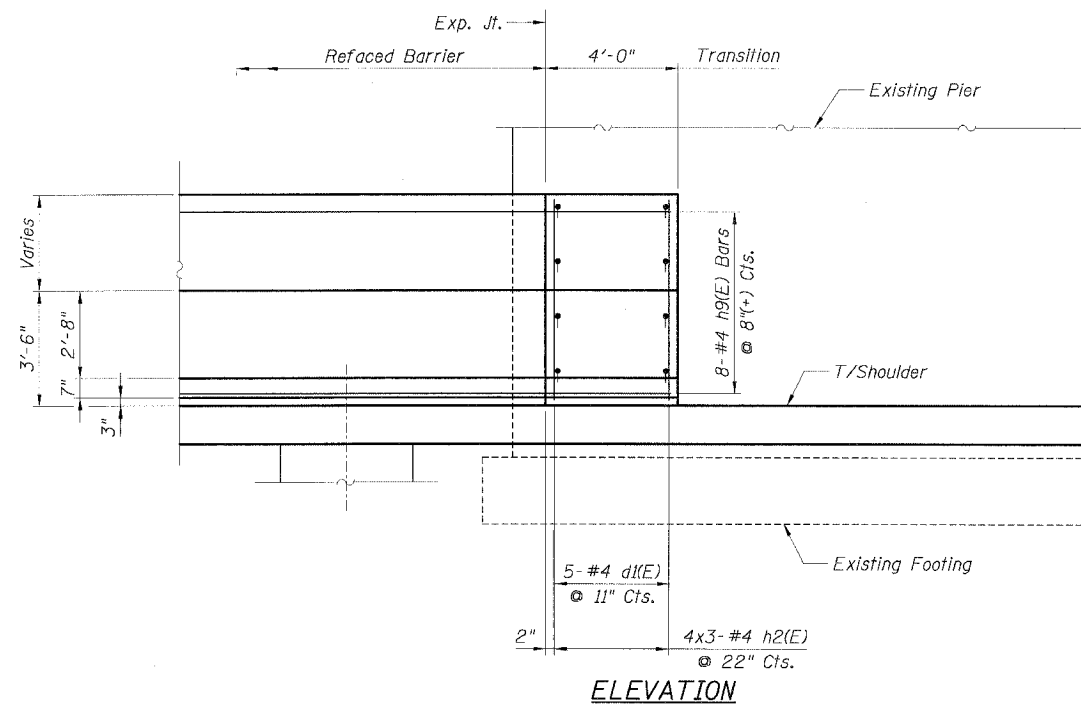
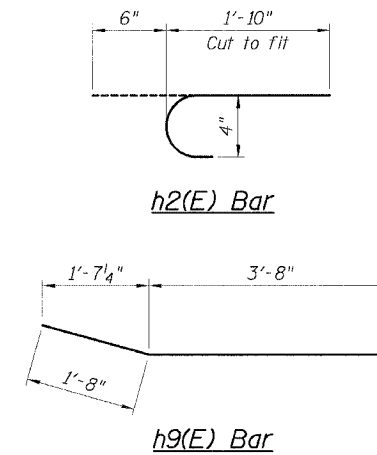
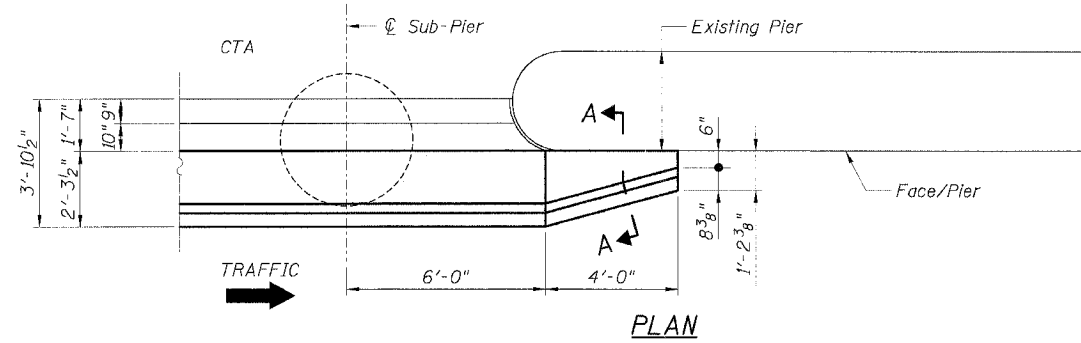
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

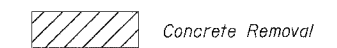
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STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* (1818, ETC, 2324.6-10)R-9 62302				

**BILL OF MATERIAL
FOR ONE TRANSITION**

Bar	No.	Size	Length	Shape
d1(E)	5	#4	6'-5"	—
h2(E)	12	#4	2'-4"	—
h9(E)	8	#4	5'-4"	—
Item				
		Unit	Quantity	
Reinforcement Bars, Epoxy Coated		Pound	56	
Concrete Superstructure		Cu. Yd.	1.4	
Protective Coat		Sq. Yd.	4	



LEGEND:



NOTES:

1. Drilling and grouting of #4 h2(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h2(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. For d1(E) bar details, see Sheet B2.
4. For Refaced Barrier Wall Details, see Sheets B2 and B3.
5. For locations of Transition, see Roadway Plans.

CTE | AECOM

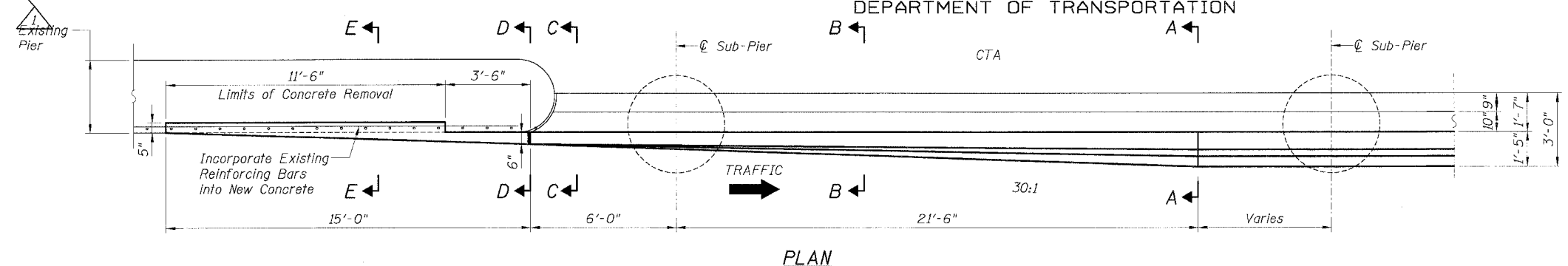
REVISIONS	
NAME	DATE
MJP	8-12-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
REFACED BARRIER TO PIER
TRANSITION DETAILS (NO TAPER)
SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: MJP

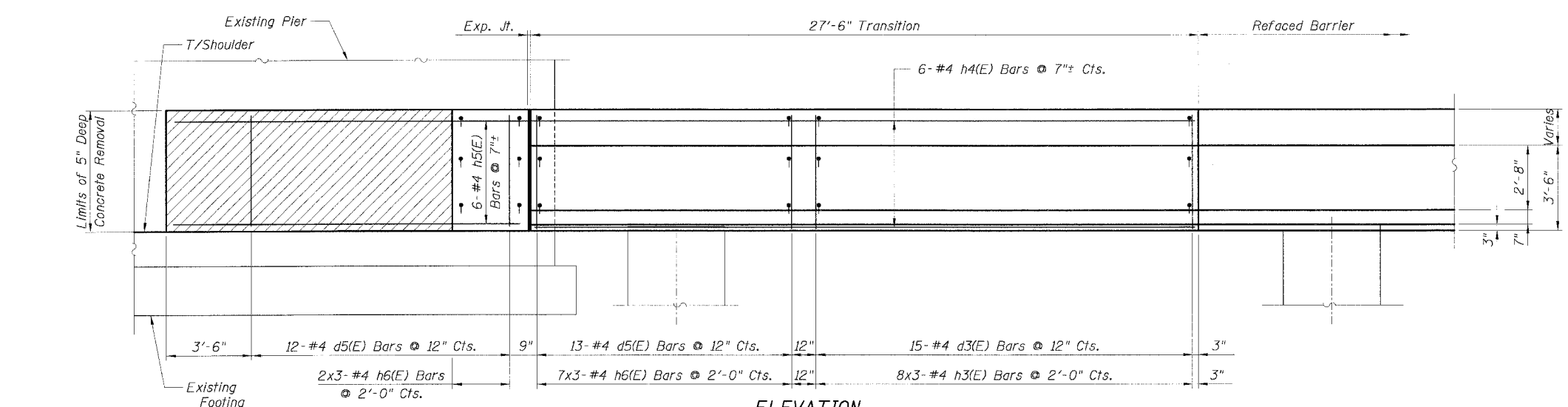
Sheet B9 of 18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

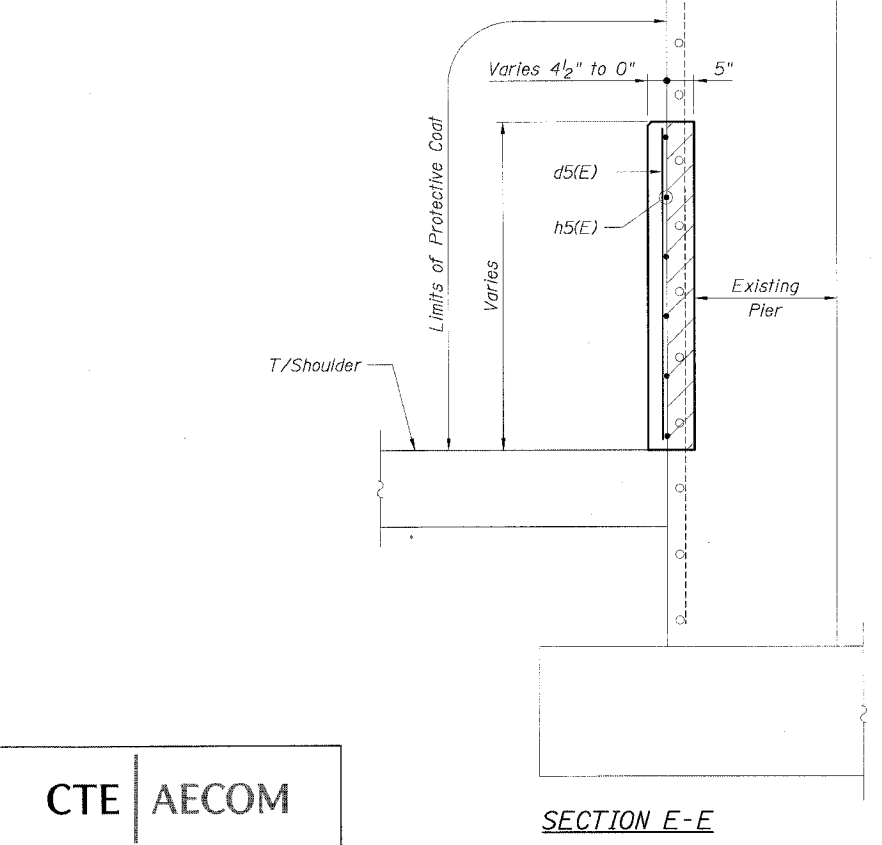
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90/94		COOK	598	418
STA.	TO STA.		FED. AID PROJECT	
			• 11818, ETC, 2324.6-10R-9 62302	



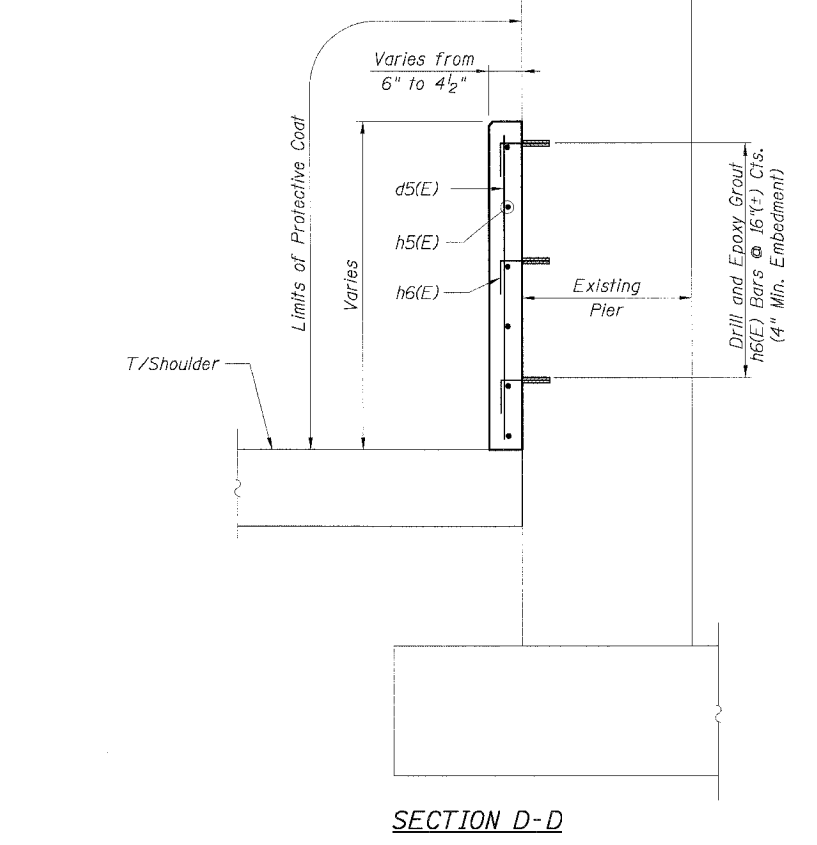
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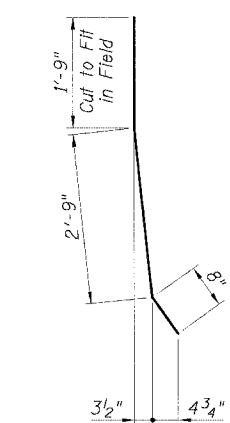
ELEVATION



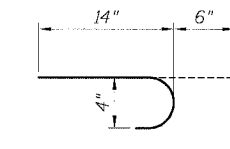
SECTION E-E



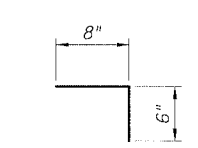
SECTION D-D



d3(E) Bar



h3(E) Bar



h6(E) Bar

BILL OF MATERIAL
FOR ONE TRANSITION

Bar	No.	Size	Length	Shape
d3(E)	15	#4	5'-2"	
d5(E)	25	#4	4'-8"	
h3(E)	48	#4	1'-8"	
h4(E)	6	#4	27'-2"	
h5(E)	6	#4	14'-8"	
h6(E)	27	#4	1'-2"	
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	372		
Concrete Superstructure	Cu. Yd.	4.7		
Protective Coat	Sq. Yd.	25		
Concrete Removal	Cu. Yd.	0.9		

NOTES:

1. Drilling and grouting of #4 h3(E) and h6(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h3(E) and h6(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. Exposed existing reinforcement bars shall remain in place and be blast cleaned to gray metal. Reinforcement bars that have been cut or have lost 25% or more of their original cross sectional area shall be supplemented by new epoxy coated reinforcement bars.
4. The cost of supplementing and cleaning existing reinforcement bars shall be included in the cost per cubic yard for Concrete Removal.
5. Provide joints in facing to match those in the existing barrier. See Sheet B7 for details.
6. For Soldier Pile and Lagging Retention System, see Sheets B1, B4 and B5.
7. For Re-faced Barrier Wall Details, see Sheets B4 and B5.
8. For Sections A-A, B-B and C-C, see Sheet B11.
9. For Existing Concrete Repair Details, see Sheet B3.
10. For Facing Details at Existing Light Pole Foundation, see Sheet B5.
11. For locations of Transition, see Roadway Plans.

REVISIONS	
NAME	DATE
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LEGEND:
 Concrete Removal

Sheet B10 of 18
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER AT OR ABOVE EXISTING
REFACED BARRIER TO PIER
TRANSITION DETAILS (TAPER)
SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: MJP

CTE | AECOM

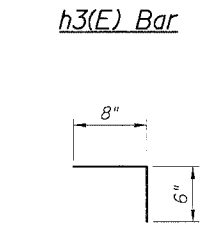
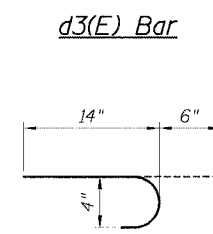
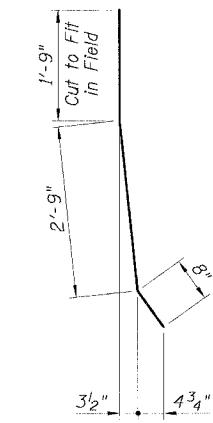
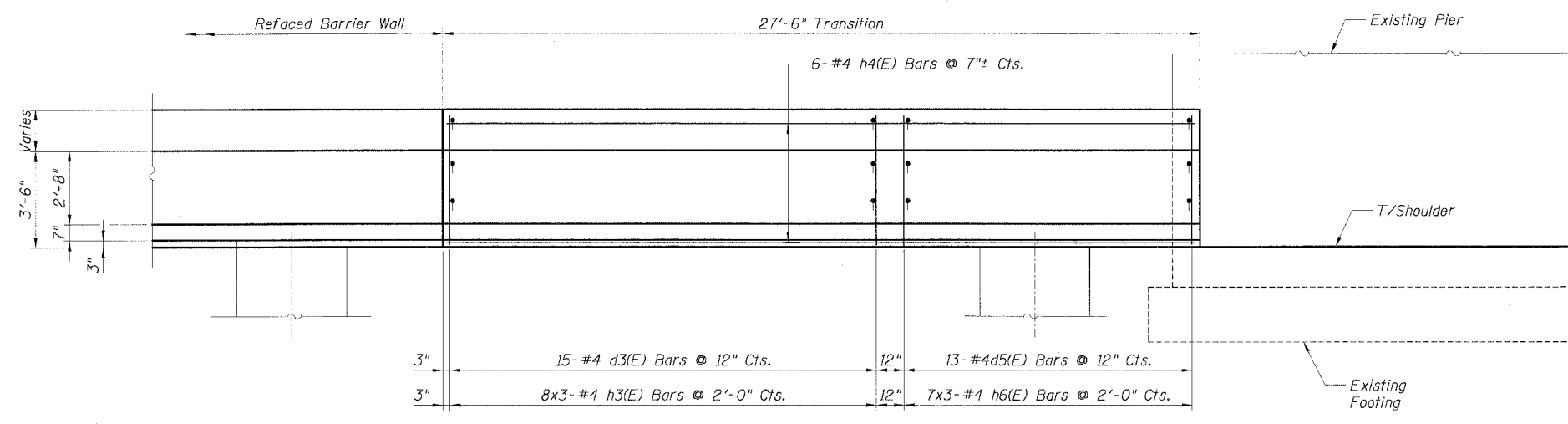
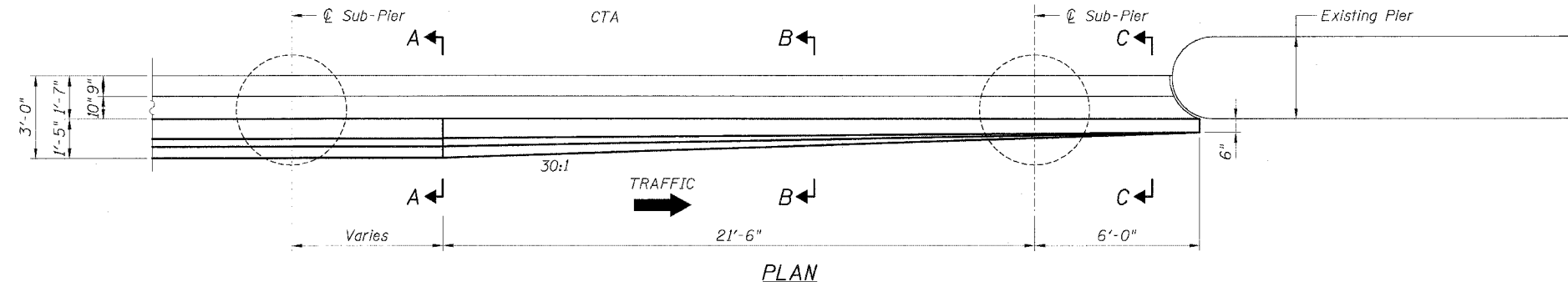
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	419

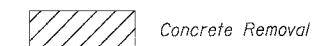
STA.	TO STA.
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
(1818, ETC, 2324.6-101R-9	62302

**BILL OF MATERIAL
FOR ONE TRANSITION**

Bar	No.	Size	Length	Shape
d3(E)	15	#4	5'-2"	—
d5(E)	13	#4	4'-8"	—
h3(E)	24	#4	1'-8"	—
h4(E)	6	#4	27'-2"	—
h6(E)	21	#4	1'-2"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	240		
Concrete Superstructure	Cu. Yd.	3.1		
Protective Coat	Sq. Yd.	20		

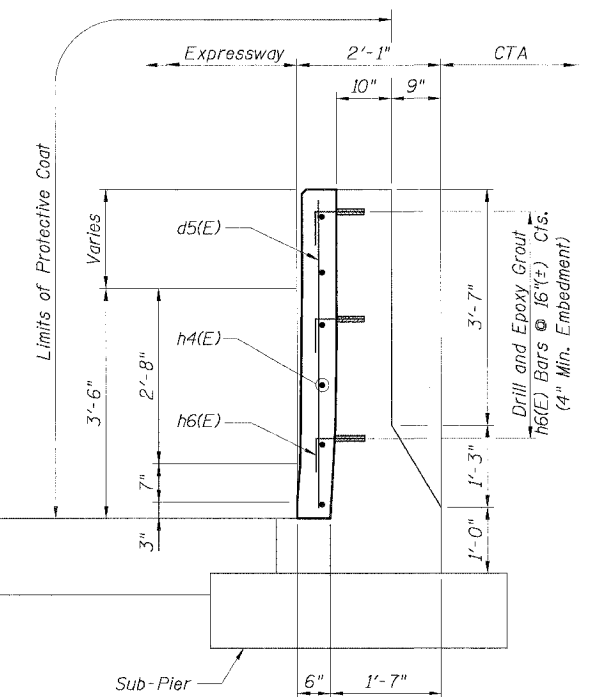
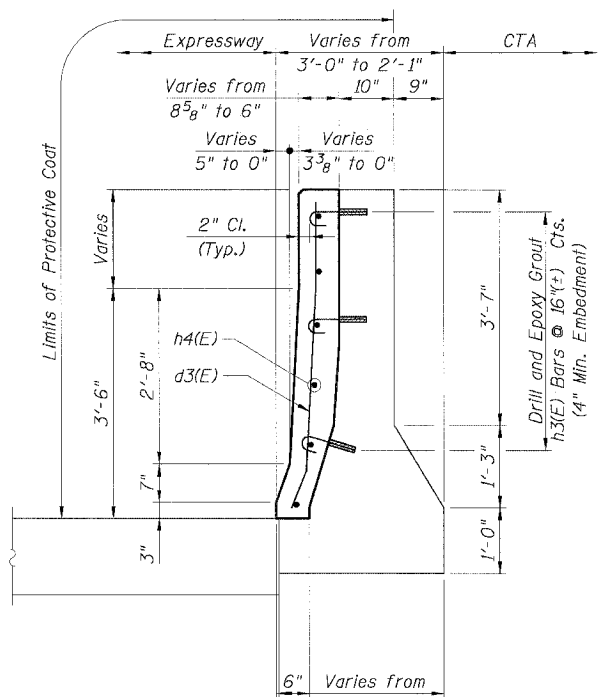
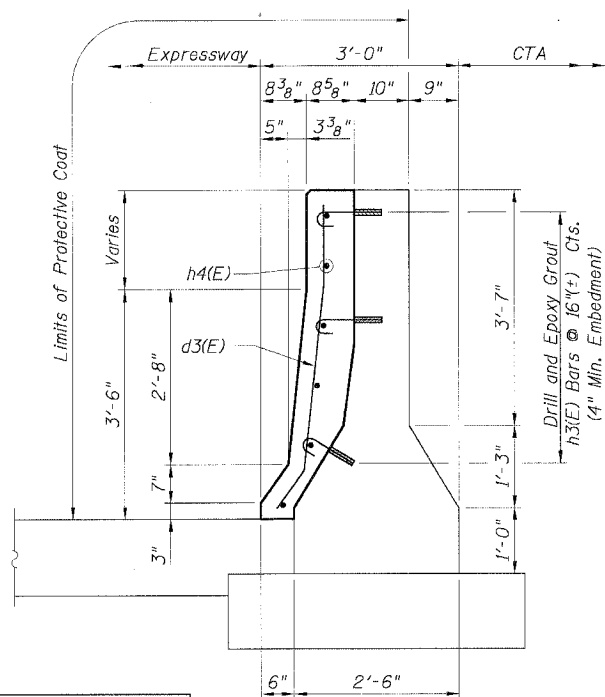


LEGEND:



NOTES:

1. Drilling and grouting of #4 h3(E) and h6(E) bars shall be in accordance with Section 584 of the Standard Specifications.
2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h3(E) and h6(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
3. Provide joints in facing to match those in the existing barrier. See Sheet B7 for details.
4. For Soldier Pile and Lagging Retention System, see Sheets B1, B4 and B5.
5. For Refaced Barrier Wall Details, see Sheets B4 and B5.
6. For Existing Concrete Repair Details, see Sheet B3.
7. For Facing Details at Existing Light Pole Foundation, see Sheet B5.
8. For locations of Transition, see Roadway Plans.



CTE | AECOM

SECTION A-A

SECTION B-B

SECTION C-C

REVISIONS	
NAME	DATE
MJP	8-12-05

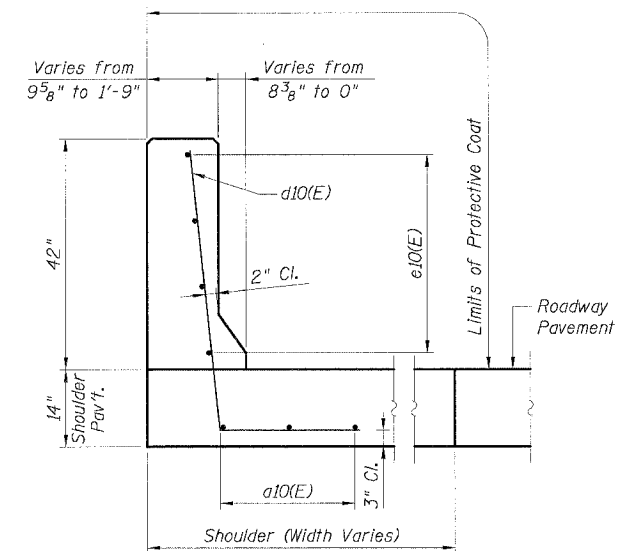
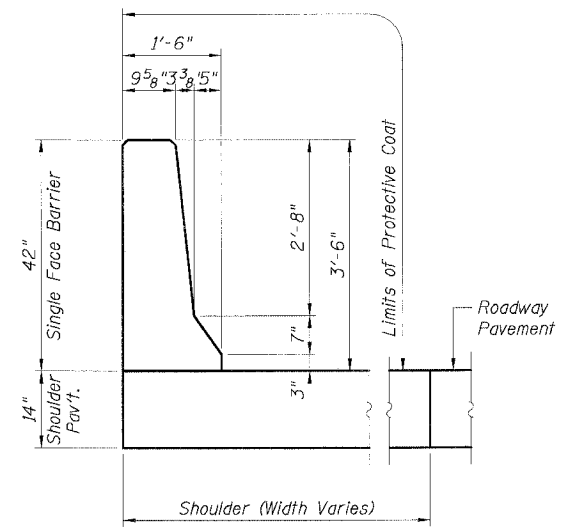
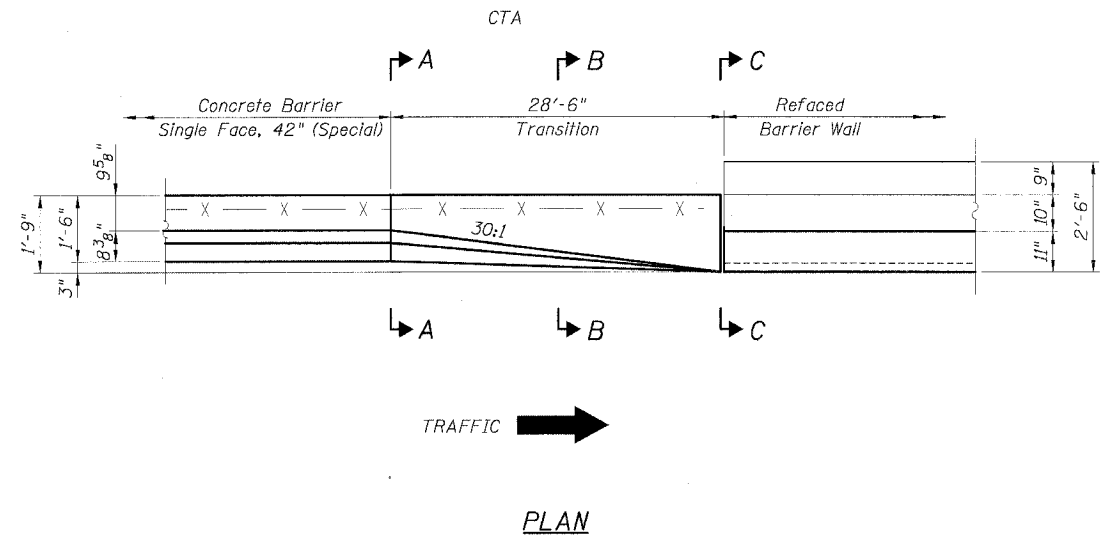
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER AT OR ABOVE EXISTING
REFACED BARRIER TO PIER
TRANSITION DETAILS (NO TAPER)
SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: ROP

Sheet B11 of 18

3/10/2005 10:15 AM

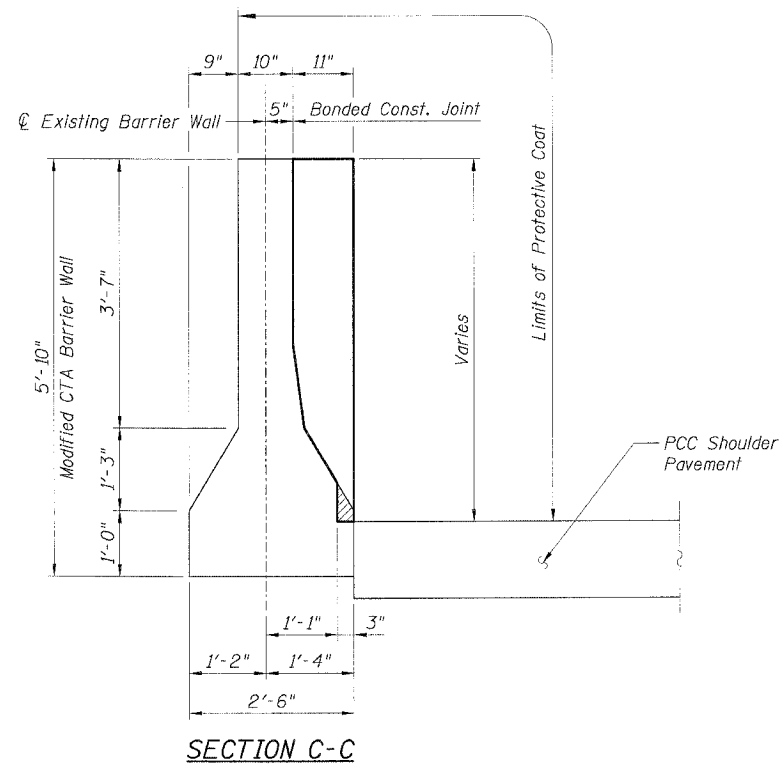
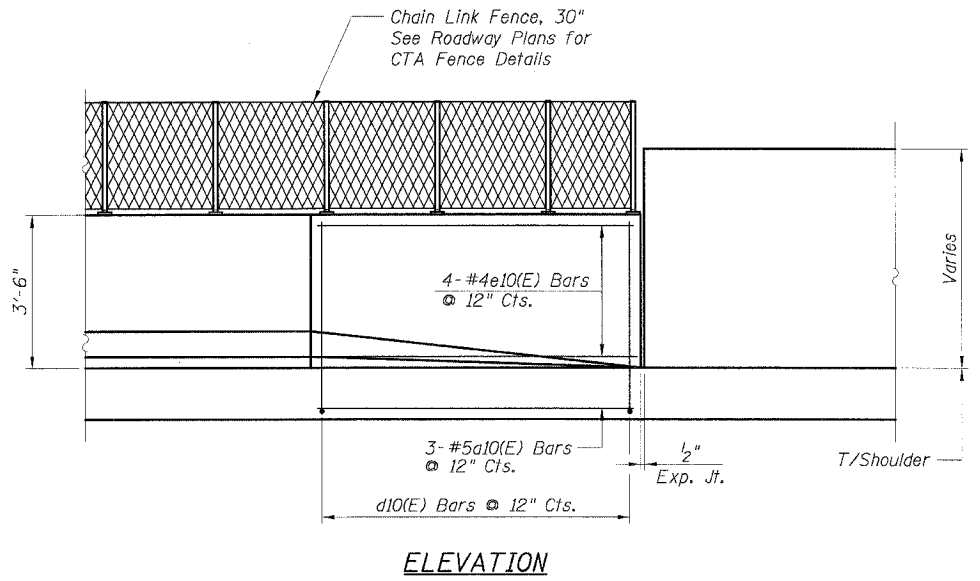
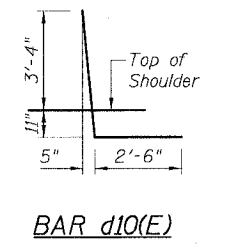
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	420
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1818, ETC, 2324.6-10R-9 62302				



BILL OF MATERIAL FOR ONE TRANSITION

Bar	No.	Size	Length	Shape
a10	3	#5	28'-2"	—
d10	29	#6	6'-9"	L
e10	4	#4	28'-2"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	457		
Concrete Superstructure	Cu. Yd.	5.2		
Protective Coat	Sq. Yd.	15		



- NOTES:**
- For alternative vertical reinforcing details, see "Concrete Barrier Single Face, 42" Alternates".
 - For existing CTA Barrier modifications - vertical facing, see sheet B7.
 - For Expansion Joint details see Sheet B6.
 - For locations of Transition, see Roadway Plans.

CTE | AECOM

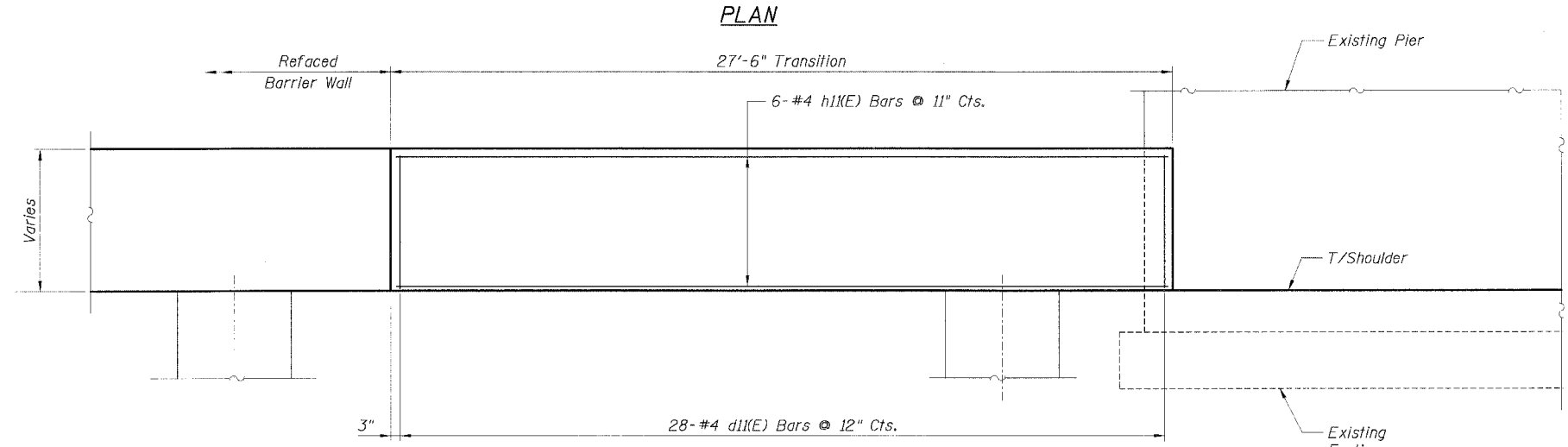
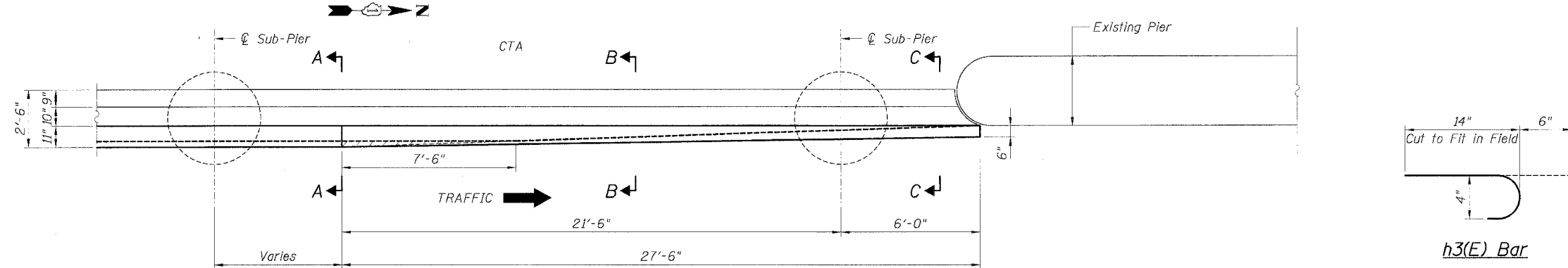
REVISIONS	
NAME	DATE
MJP	8-12-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/SOULDER AT OR ABOVE EXISTING
NEW 42" BARRIER TO VERT. REFACED BARRIER
TRANSITION DETAILS (TAPER)
SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: RDP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 598	SHEET NO. 421
STA.		TO STA.		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
• (1818, ETC., 2324.6-101R-9) 62302				

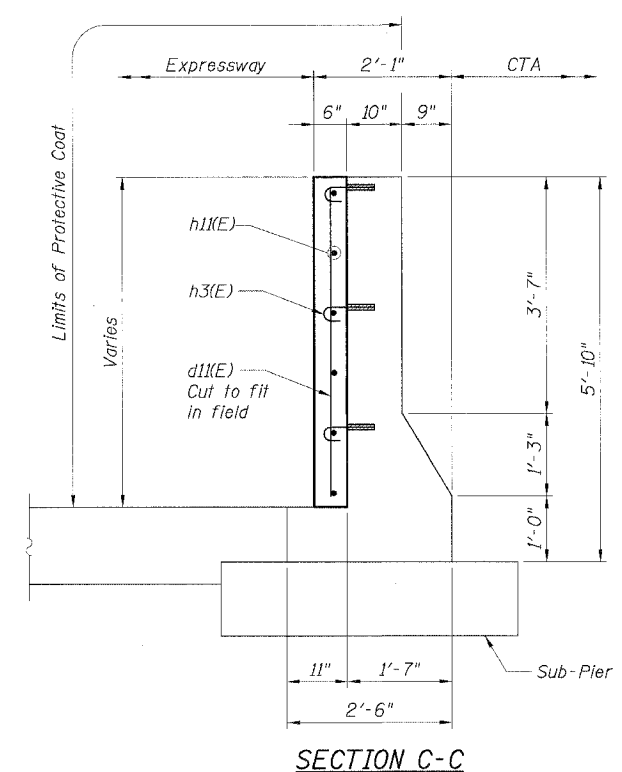
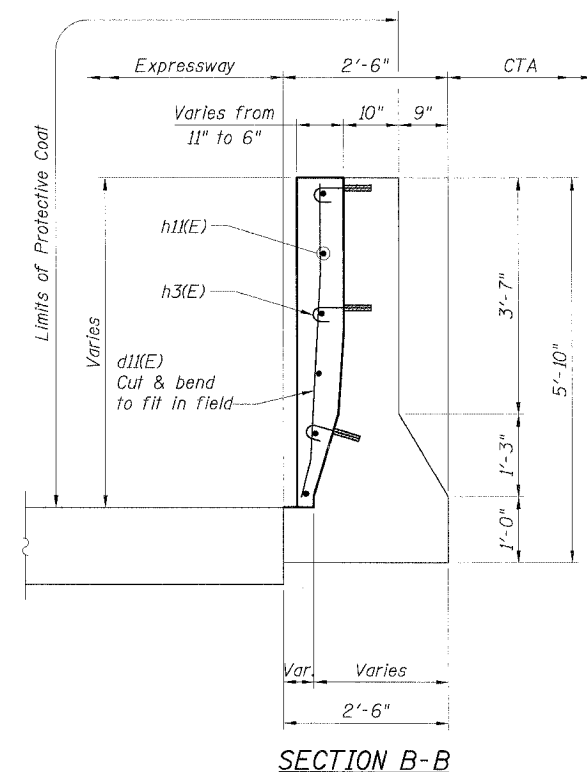
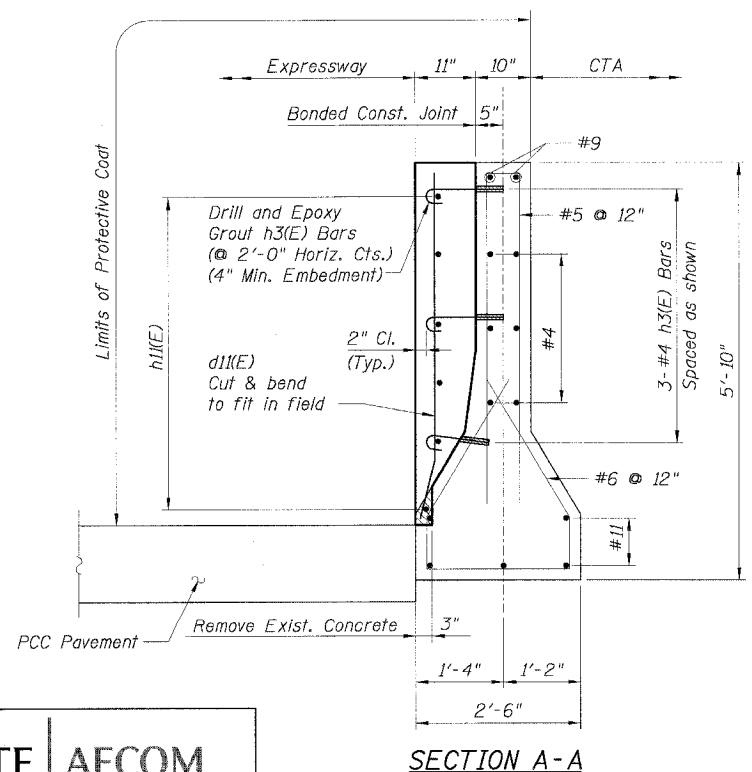


BILL OF MATERIAL FOR ONE TRANSITION

Bar	No.	Size	Length	Shape
d1(E)	28	#4	4'-8"	—
h3(E)	42	#4	1'-8"	U
h1(E)	6	#4	24'-8"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	233		
Concrete Superstructure	Cu. Yd.	3.2		
Protective Coat	Sq. Yd.	20		
Concrete Removal	Cu. Yd.	0.1		

LEGEND:
 Concrete Removal

- NOTES:**
1. Drilling and grouting of #4 h3(E) bars shall be in accordance with Section 584 of the Standard Specifications.
 2. The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h3(E) bars shall be included in the cost per cubic yard for Concrete Superstructure.
 3. Provide joints in facing to match those in the existing barrier. See Sheet B7 for details.
 4. For Soldier Pile and Lagging Retention System see Sheets B1, B4 and B5.
 5. For Refaced Barrier Wall Details, see Sheet B7.
 6. For Existing Concrete Repair Details, see Sheet B3.
 7. For Facing Details at Existing Light Pole Foundation, see Sheet B5.
 8. For locations of Transition, see Roadway Plans.



REVISIONS

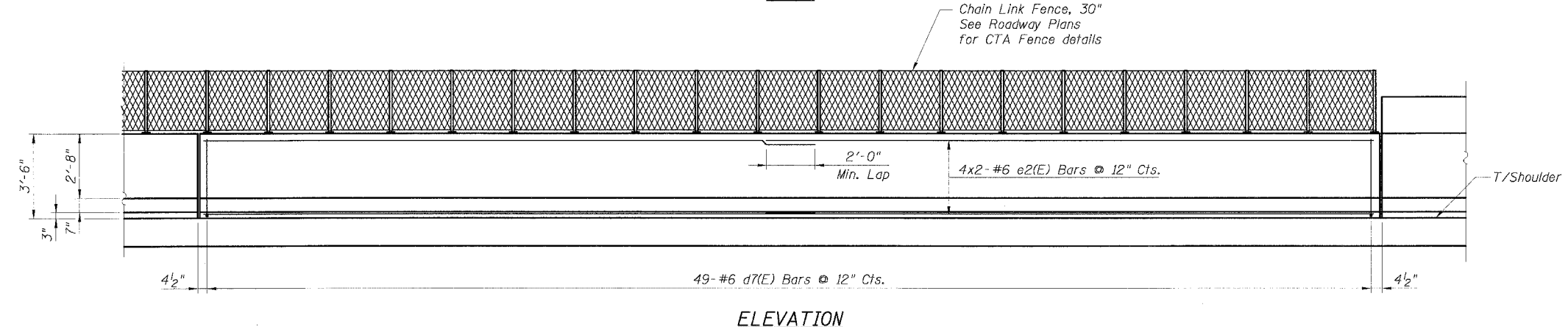
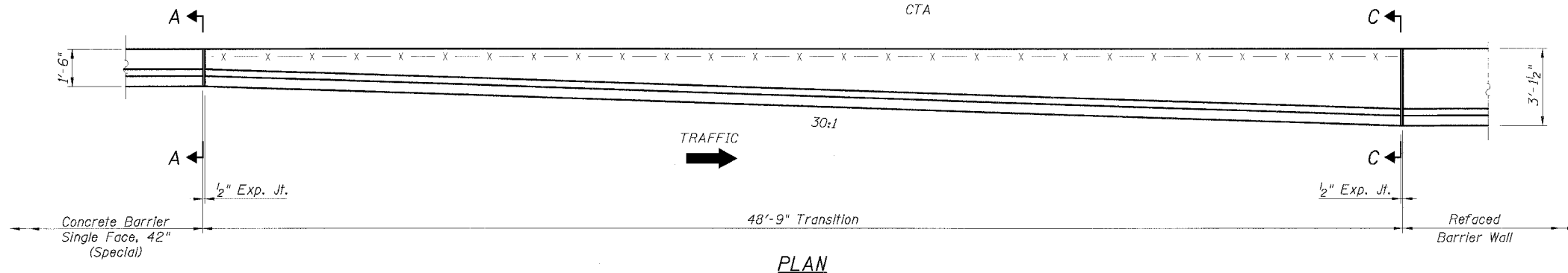
NO.	NAME	DATE
1	MJP	8-12-05

Sheet B13 of 18
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST STREET TO 31ST STREET (SB EXPRESS LANES)
 EXISTING BARRIER WALL MODIFICATIONS
 AT CTA STATIONS
 FOR 69TH ST. STATION (NB)
 VERT. REFACED BARRIER TO PIER
 TRANSITION DETAILS (NO TAPER)
 SCALE: None DRAWN BY: CHD
 DATE: July 7, 2005 CHECKED BY: RDP

CTE | AECOM

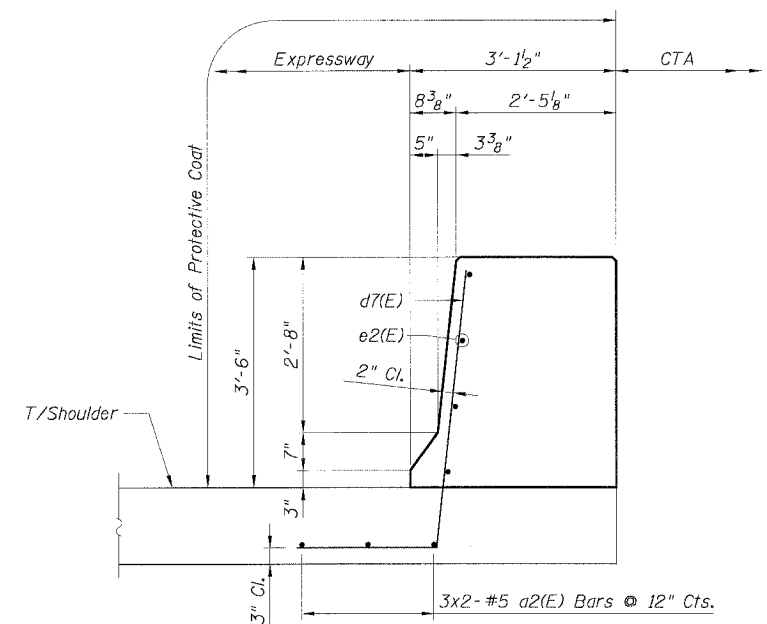
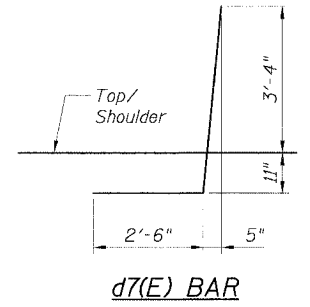
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	598	422
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				62302
• (1818, ETC, 2324.6-10R-9				



BILL OF MATERIAL FOR ONE TRANSITION

Bar	No.	Size	Length	Shape
a2(E)	6	#5	25'-3"	—
d7(E)	49	#6	6'-9"	—
e2(E)	8	#6	25'-3"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	958		
Concrete Superstructure	Cu. Yd.	11.7		
Protective Coat	Sq. Yd.	28.5		



- NOTES:**
1. Provide Construction Joint in the transition.
 2. For Expansion Joint Details, see Sheet B6.
 3. For Section A-A, see Sheet B15.
 4. For alternative vertical reinforcing details, see "Concrete Barrier Single Face, 42" Alternatives".
 5. For Refaced Barrier Wall Details, see Sheets B2 and B3.
 6. For Soldier Pile and Lagging Retention System, see Sheets B1 thru B3.
 6. For Concrete Barrier Single Face, 42" (Special) Details, see Roadway details.
 7. For locations of Transition, see Roadway Plans.

CTE | AECOM

REVISIONS

NAME	DATE
MJP	8-12-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
REFACED BARRIER TO NEW 42" BARRIER
TRANSITION DETAILS

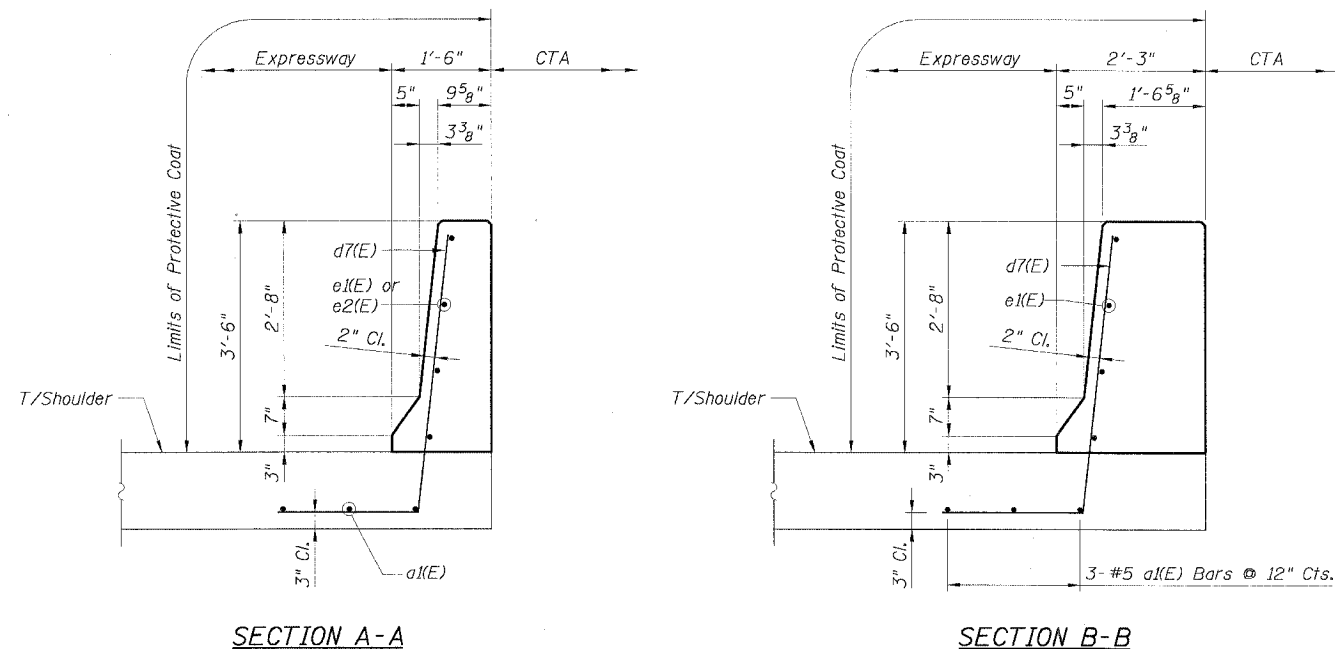
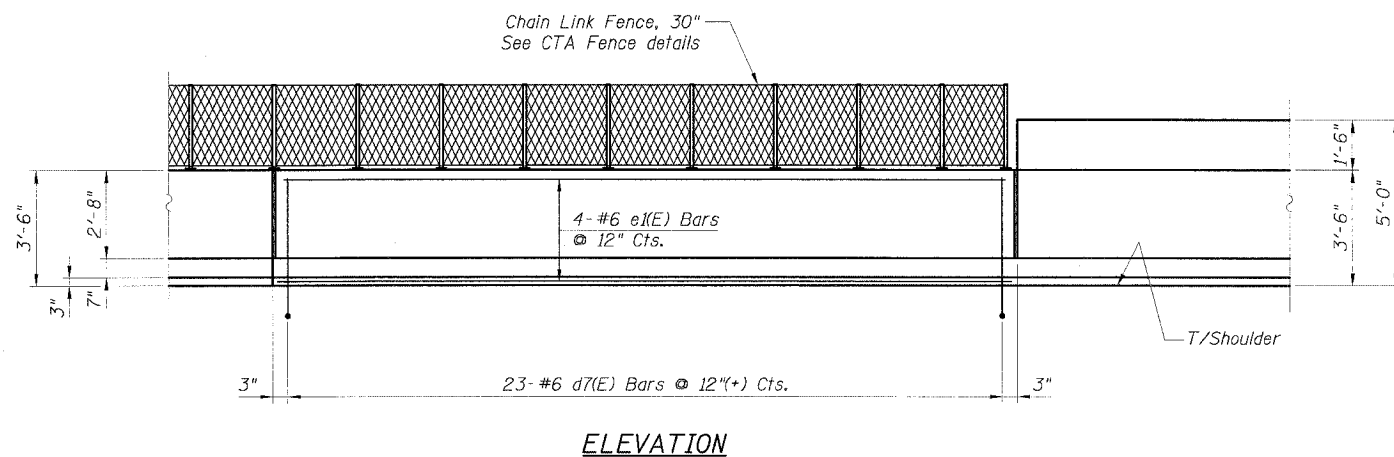
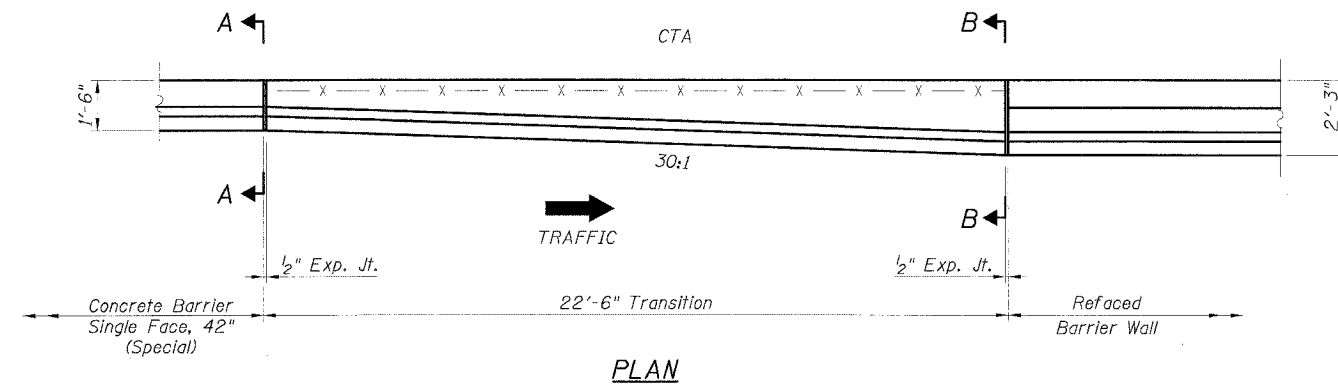
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DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 598	SHEET NO. 423
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (181B, ETC, 2324.6-10)R-9 62302				

**BILL OF MATERIAL
FOR ONE TRANSITION**

Bar	No.	Size	Length	Shape
a1(E)	3	#5	22'-2"	—
d7(E)	23	#6	6'-9"	—
e1(E)	4	#6	22'-2"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	436		
Concrete Superstructure Protective Coat	Sq. Yd.	12		



NOTES:

1. For Expansion Joint Details, see Sheet B6.
2. For alternative vertical reinforcing details, see "Concrete Barrier Single Face, 42" Alternatives".
3. For d7(E) bar details, see Sheet B14.
4. For Refaced Barrier Wall details, see Sheets B4 and B5.
5. For Soldier Pile and Lagging Retention System, see Sheets B1, B4 and B5.
6. For Concrete Barrier Single Face, 42" (Special), see Roadway details.
7. For locations of Transition, see Roadway Plans.

CTE | AECOM

REVISIONS	
NAME	DATE
MJP	8-12-05

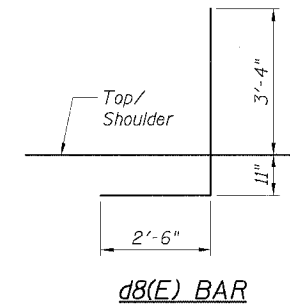
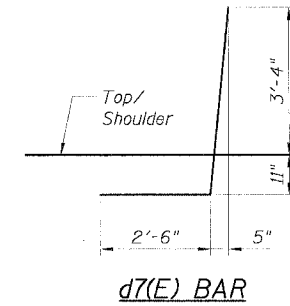
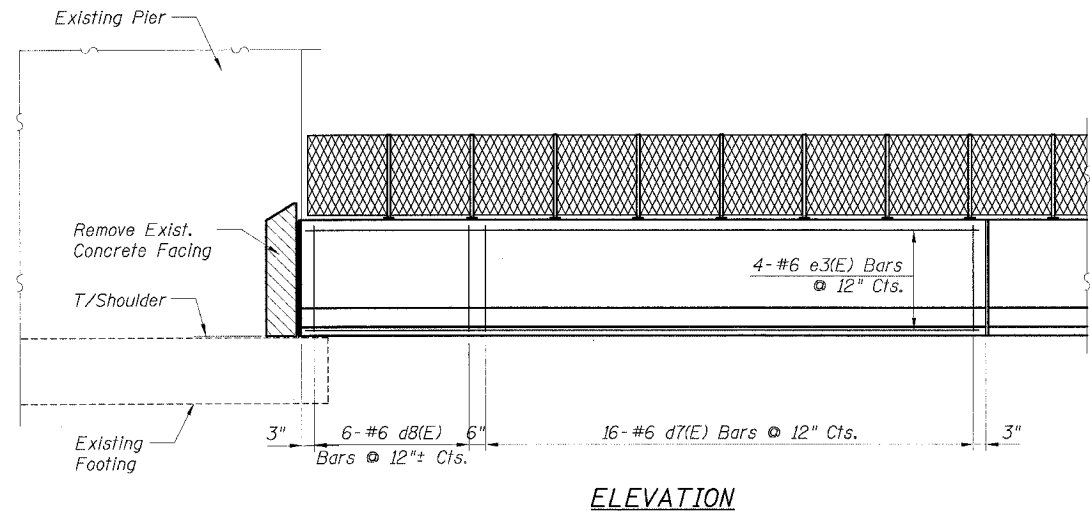
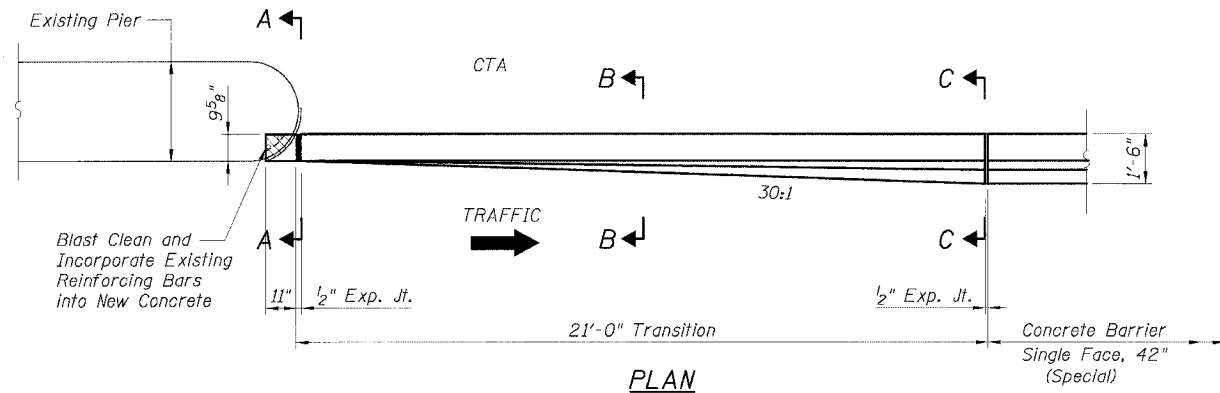
Sheet B15 of 18

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER AT OR ABOVE EXISTING
REFACED BARRIER TO NEW 42" BARRIER
TRANSITION DETAILS

SCALE: None DRAWN BY: CHD
DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 598	SHEET NO. 424
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1818, ETC, 2324.6-101R-9 62302				



BILL OF MATERIAL FOR ONE TRANSITION

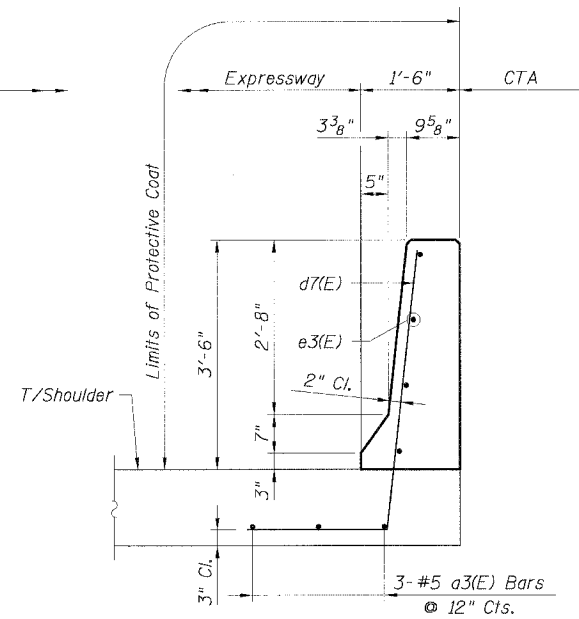
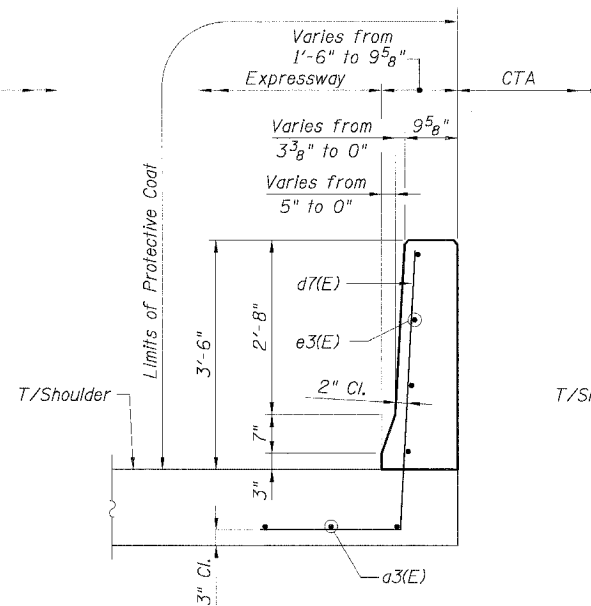
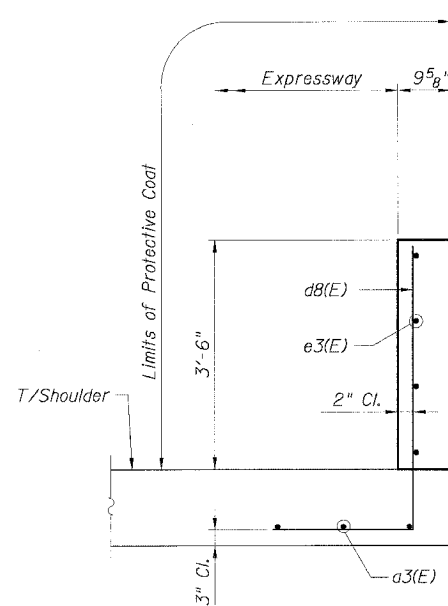
Bar	No.	Size	Length	Shape
a3(E)	3	#5	20'-8"	
d7(E)	15	#6	6'-9"	
d8(E)	5	#6	6'-9"	
e3(E)	4	#6	20'-8"	
Item		Unit	Quantity	
Reinforcement Bars, Epoxy Coated		Pound	392	
Concrete Superstructure		Cu. Yd.	2.6	
Protective Coat		Sq. Yd.	10	
Concrete Removal		Cu. Yd.	0.1	

LEGEND:

Concrete Removal

NOTES:

- For Expansion Joint Details see Sheet B6.
- For alternative vertical reinforcing details see "Concrete Barrier Single Face, 42" Alternatives".
- For Concrete Barrier Single Face, 42" (Special), see Roadway details.
- For locations of Transition, see Roadway Plans.



CTE | AECOM

REVISIONS	
NAME	DATE
MJP	8-12-05

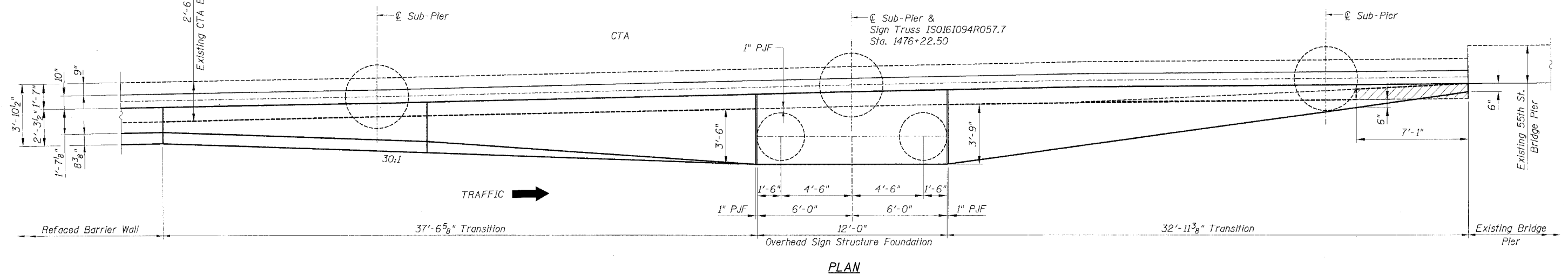
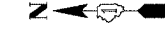
Sheet B16 of 18

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROP. T/S SHOULDER ABOVE OR BELOW EXISTING
NEW 42" BARRIER TO PIER
TRANSITION DETAILS

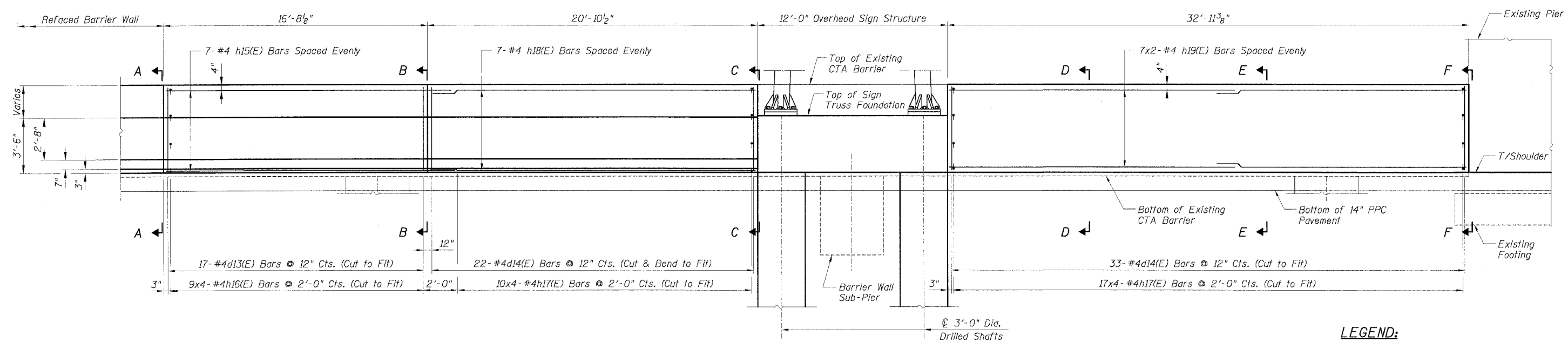
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DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 598	SHEET NO. 424A
STA. •		TO STA. •		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT • (1818, ETC, 2324.6-10R-9				62302



PLAN



ELEVATION

LEGEND:

	Concrete Removal
	PPC Pavement
	BAM
	Sub Base
	Earth

NOTES:

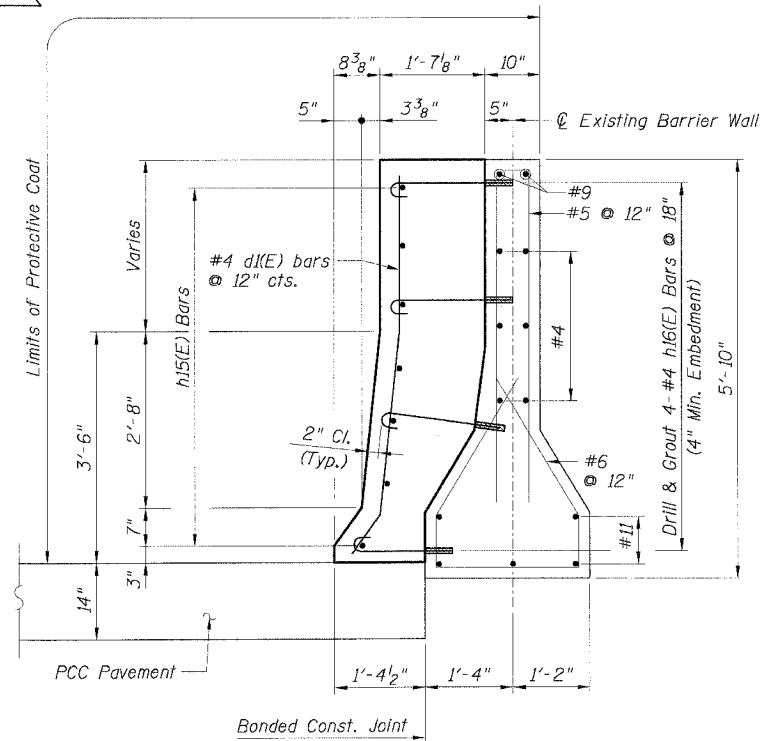
- Drilling and grouting of #4 h2(E) bars shall be in accordance with Section 584 of the Standard Specifications.
- #4 d2(E) bars shall be seated in their final position prior to the placement of the concrete shoulder. Bars shall not be mucked into place.
- The cost of drilling holes, furnishing and placing Epoxy Grout and setting #4 h2(E) bars shall be included in the cost per cubic yard for Concrete Structures.
- Provide joints in facing to match those in the existing barrier.
- Exposed existing reinforcement shall remain in place and be blast cleaned to gray metal. Reinforcement bars that are cut or have lost 25% or more of their original cross sectional area shall be supplemented by new epoxy coated reinforcement bars. The cost of supplementing and cleaning existing reinforcement bars shall be included in the cost per cubic yard for Concrete Removal.

REVISIONS		DATE
M/J/P	NAME	DATE
		8-12-05

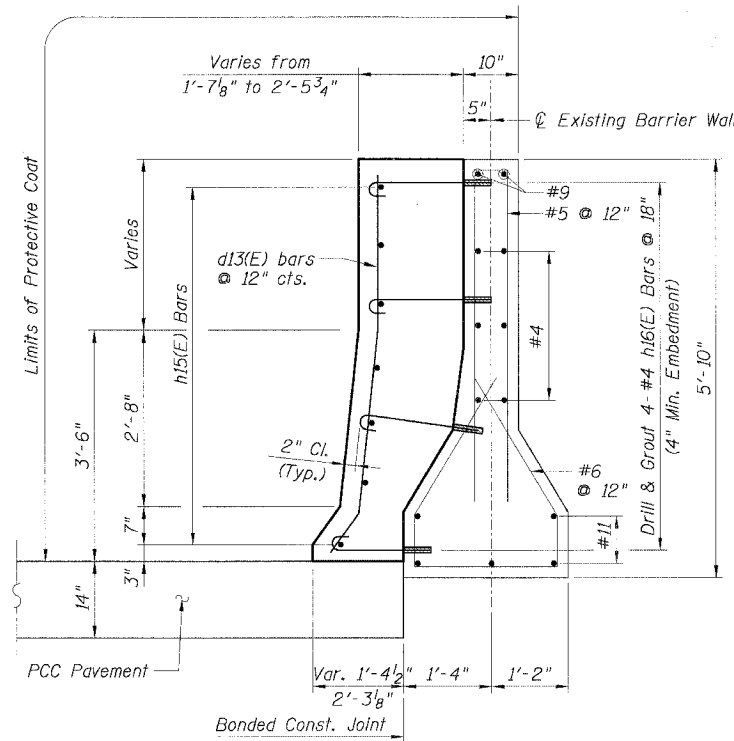
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
REFACED BARRIER TO NEW SIGN STRUCTURE
TRANSITION PLAN AND ELEVATION
SCALE: None DRAWN BY: JSS
DATE: July 7, 2005 CHECKED BY: RDP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

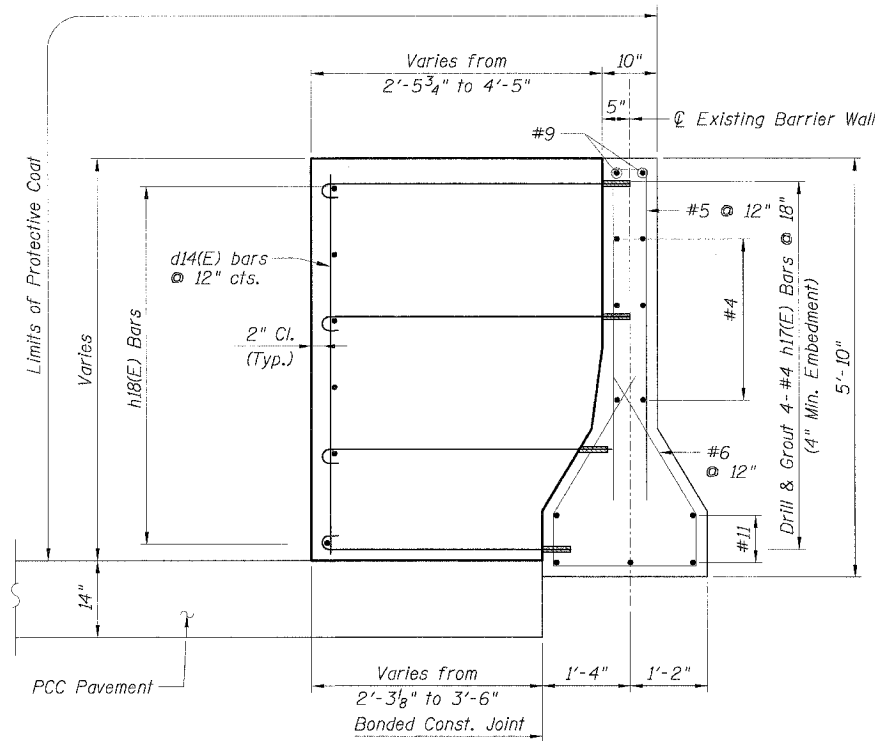
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	598	424B
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	62302	
• (1816, ETC, 2324.6-10R-9				



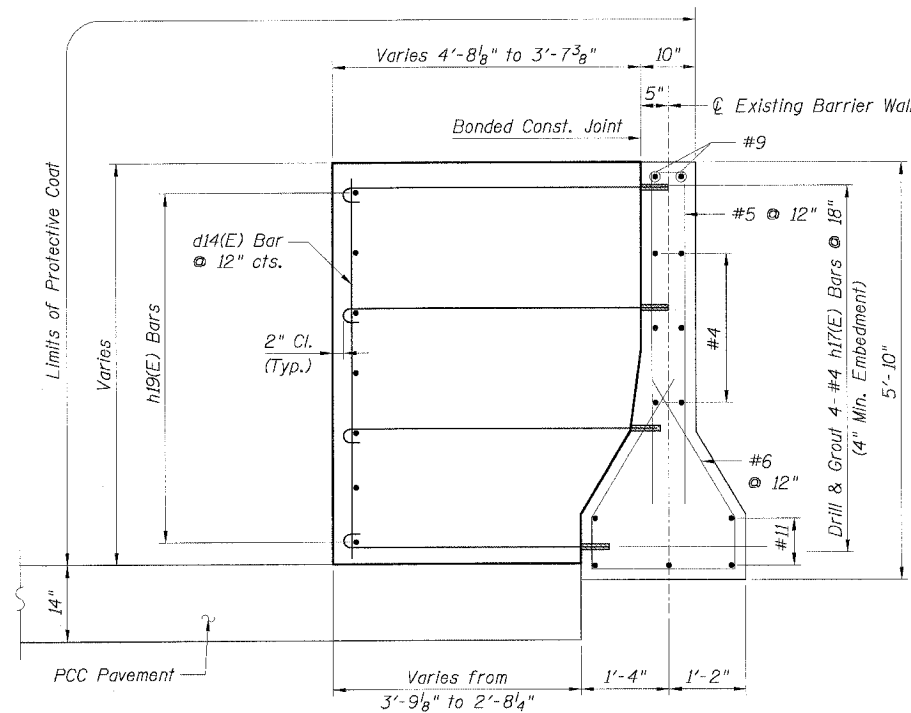
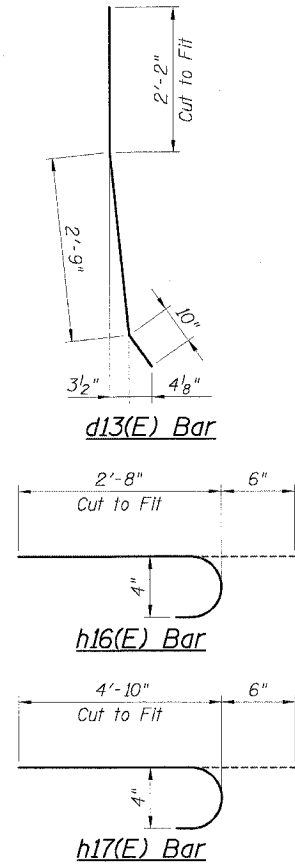
SECTION A-A



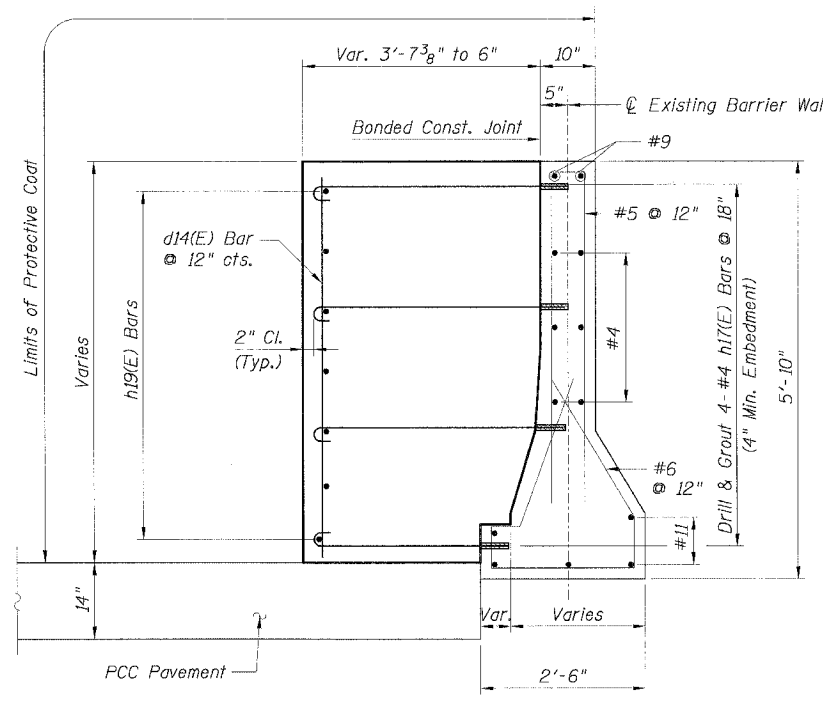
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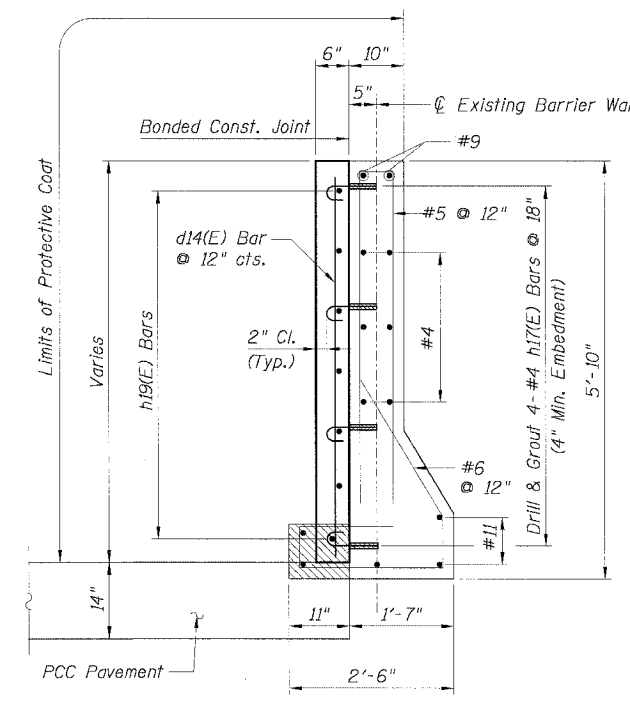
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d13(E)	17	#4	5'-9"	—
d14(E)	55	#4	5'-9"	—
h15(E)	7	#4	18'-4"	—
h16(E)	36	#4	3'-0"	—
h17(E)	108	#4	5'-4"	—
h18(E)	7	#4	20'-7"	—
h19(E)	14	#4	17'-5"	—

Item	Unit	Quantity
Furnishing Soldier Piles, W12x106	Foot	200
Drilling and Setting		
Soldier Piles (In Soil)	Cu. Ft.	962
Untreated Timber Lagging	Sq. Ft.	188
Concrete Removal	Cu. Yd.	0.2
Reinforcement Bars, Epoxy Coated	Pound	1078
Concrete Superstructure	Cu. Yd.	39.3
Protective Coat	Sq. Yd.	74

Sheet B18 of 18

REVISIONS	
NAME	DATE
MJP	8-12-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)
EXISTING BARRIER WALL MODIFICATIONS
AT CTA STATIONS
PROPOSED T/S SHOULDER BELOW EXISTING
REFACED BARRIER TO NEW SIGN STRUCTURE
TRANSITION DETAILS
SCALE: None DRAWN BY: KWT
DATE: July 7, 2005 CHECKED BY: RDP

CTE | AECOM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	453
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	* 181B, ETC, 2324.6-1PJR-9			

62302

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN LOADING

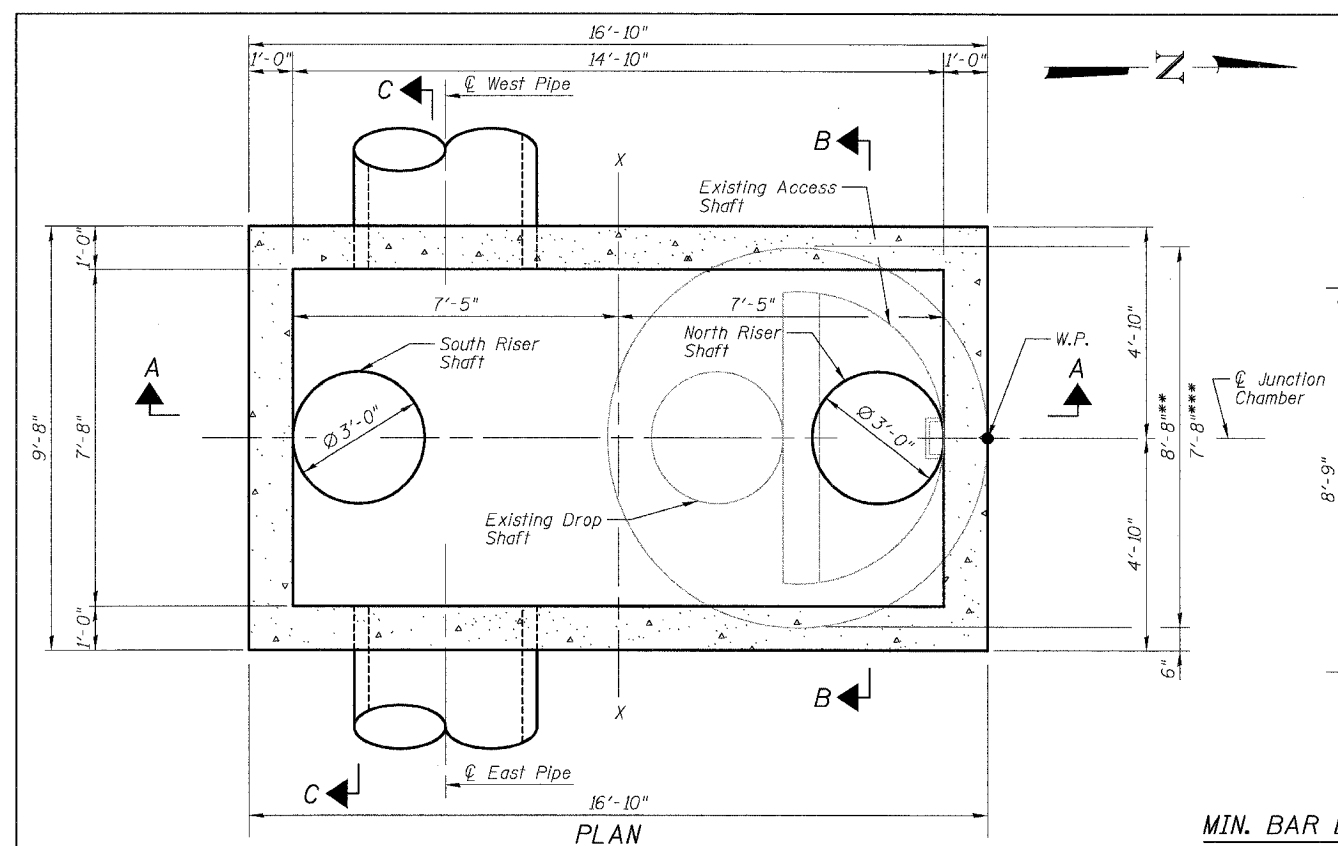
Live Load = HS20-44
 Future Wearing Surface = 50 psf
 Traffic Surcharge = 250 psf
 Equivalent Fluid Soil Pressure = 50 pcf
 Earth Load = 120 pcf

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

NOTES:

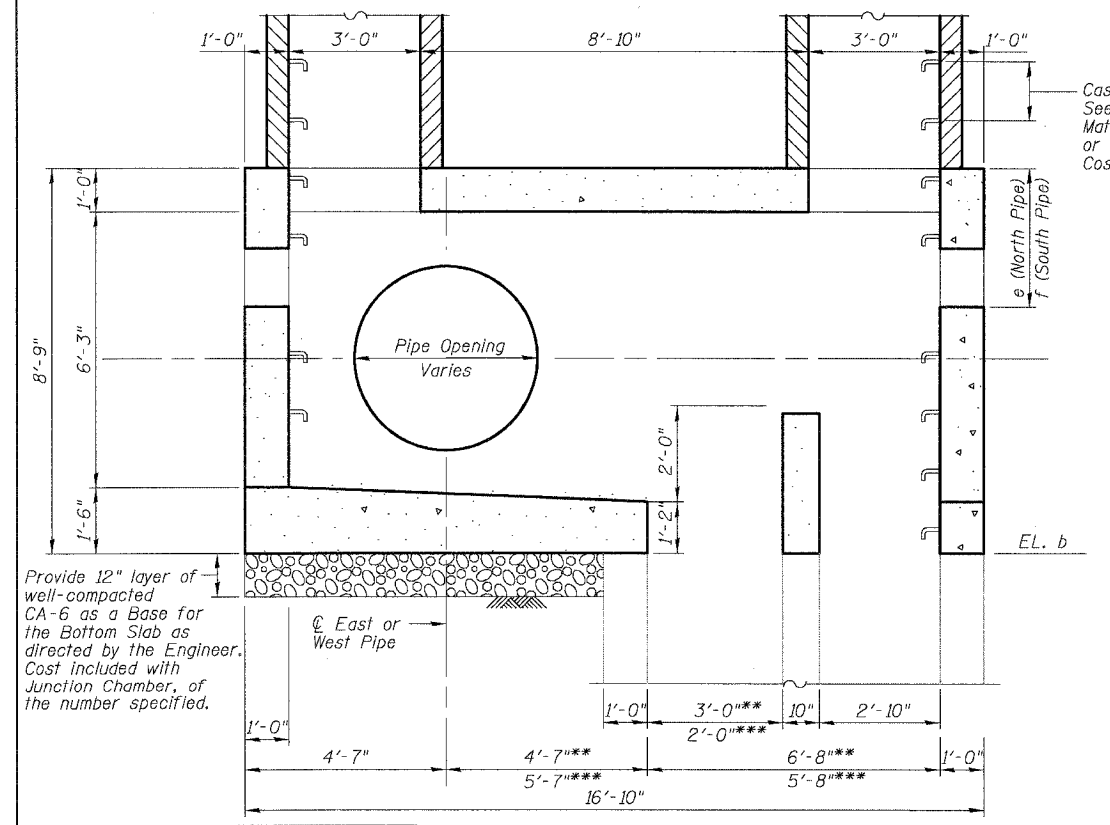
- For additional information, see Special Provisions.
- For reinforcement details, see Sheets JC-3, JC-4, & JC-5.
- Work point (W.P.) located at outside edge of existing drop manhole as shown. Mirror proposed Junction Chamber about line X-X when existing drop shaft is located north of existing access shaft. ϕ Junction Chamber is parallel to ϕ Main Drain.
- For elevations a and b, rim elevations, invert elevations, pipe openings, and dimensions c, d, e, & f, see "Table of Junction Chamber Information" on Sheet JC-2.
- Precast concrete rings shall conform to ASTM C76 for 'Reinforced Concrete Culvert, Storm Drain and Sewer Pipe', Class II, Wall B. Standard lengths of rings are: 4'-0", 2'-8", 1'-4", 0'-8", and 0'-4" collar. Cost included with Junction Chamber. All reinforcement steel required for precast concrete rings shall be included with Junction Chamber.
- The maximum width of excavation is the width of the junction chamber plus 2 feet either side, and the maximum length is the length of the junction chamber plus 2 feet either side. Excavation outside the maximum dimensions specified will not be measured for payment.
- The design of the excavation for junction chambers and jacking/receiving pits is the responsibility of the Contractor. The Contractor shall submit drawings and design for the braced excavation to the Engineer for approval. The braced excavation design and drawings shall be signed and sealed by an Illinois Licensed Structural Engineer, submitted and approved prior to the start of any work. The Engineer's approval shall not relieve the Contractor from the sole responsibility of the structural integrity of the braced excavation system. Excavation shall be paid as "Braced Excavation", see Special Provisions and Drainage Plans and Schedule.
- Work this sheet with Sheets JC-2, JC-3, JC-4, and JC-5.



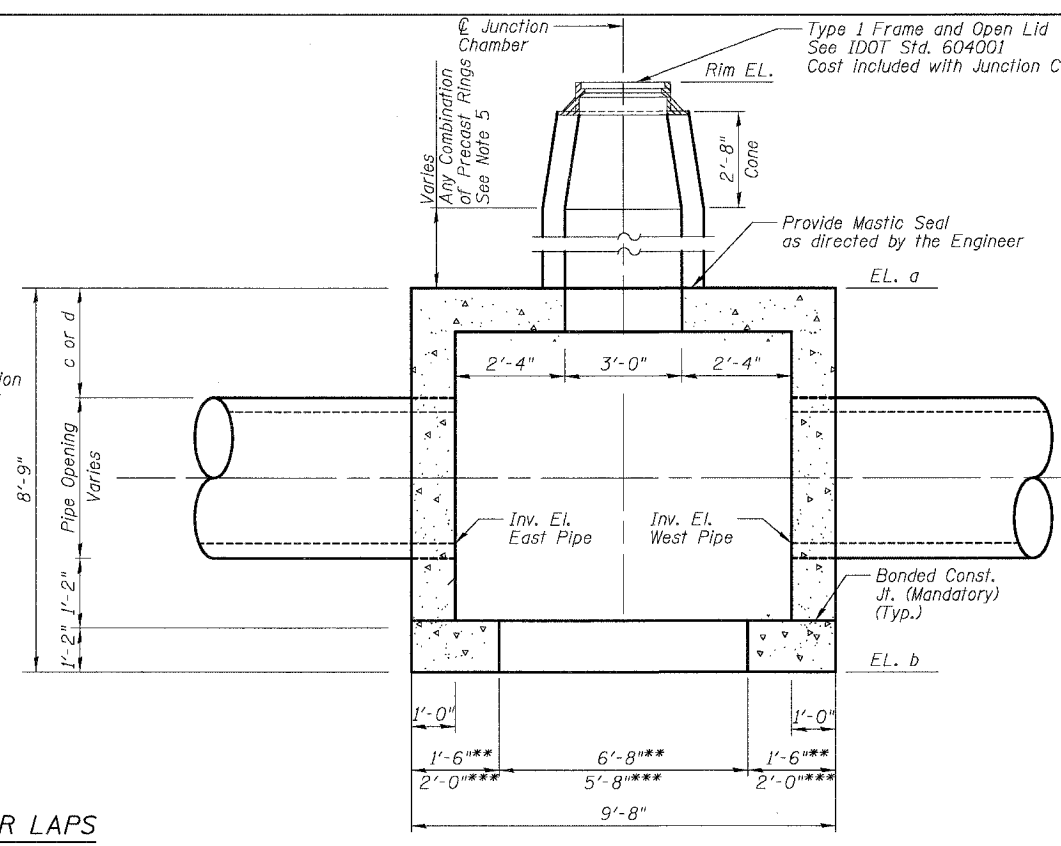
PLAN
 Showing situation with Drop Shaft oriented South, See Note 3 for North orientation

MIN. BAR LAPS

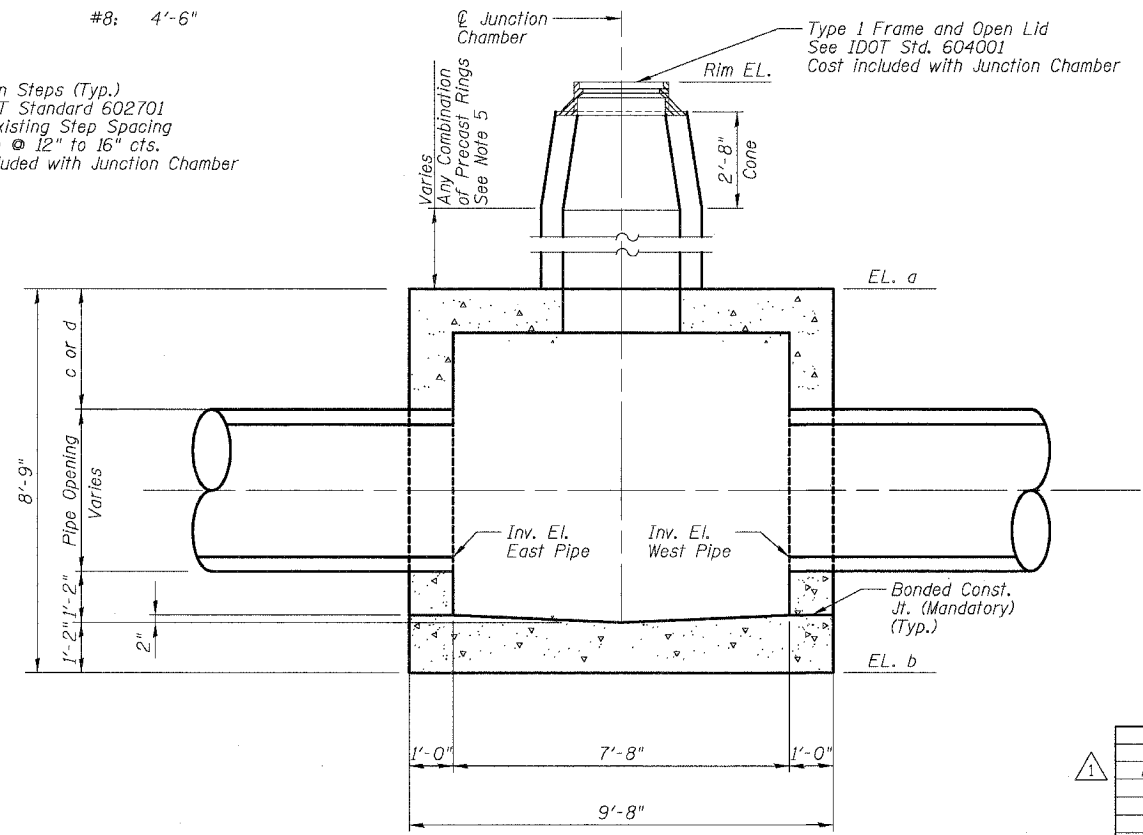
- #5: 2'-2"
- #6: 2'-7"
- #7: 3'-5"
- #8: 4'-6"



SECTION A-A



SECTION B-B



SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	TOTAL
*** Junction Chamber, No. 1	Each	1
*** Junction Chamber, No. 2	Each	1
*** Junction Chamber, No. 3	Each	1
*** Junction Chamber, No. 4	Each	1
** Junction Chamber, No. 5	Each	1
** Junction Chamber, No. 6	Each	1
** Junction Chamber, No. 7	Each	1
*** Junction Chamber, No. 8	Each	1
*** Junction Chamber, No. 9	Each	1
** Junction Chamber, No. 10	Each	1
** Junction Chamber, No. 11	Each	1

SHEET JC-1 OF JC-22

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

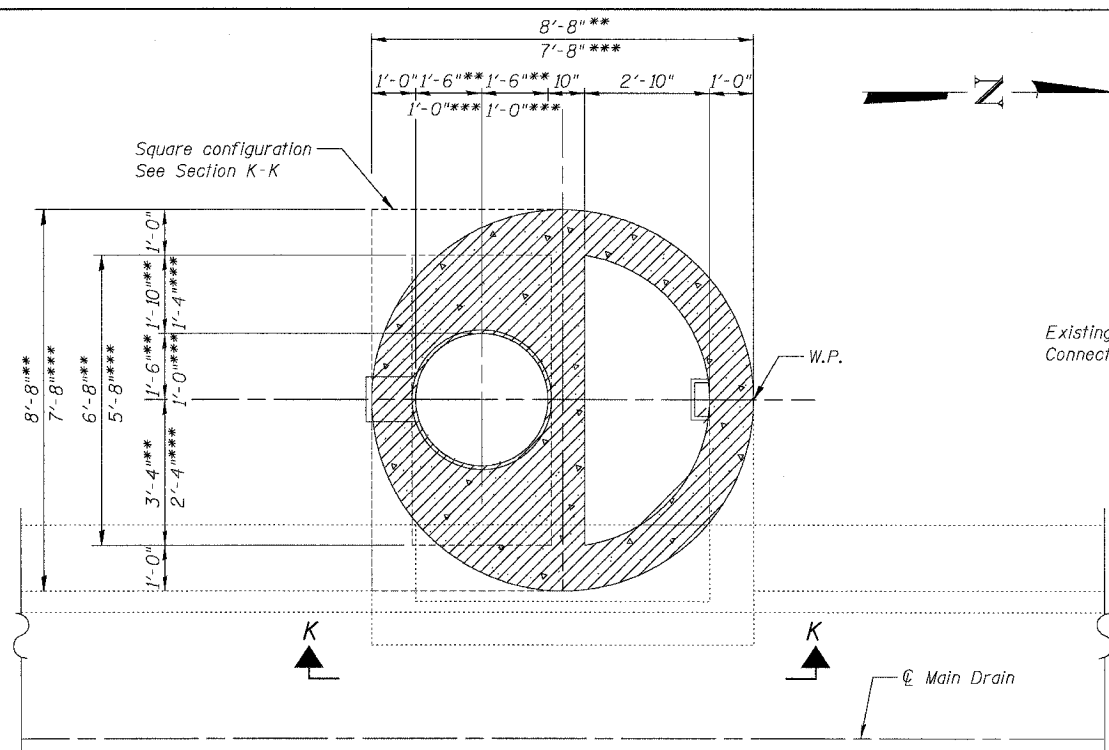
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 JUNCTION CHAMBER, TYPE 2
 GENERAL PLAN AND ELEVATION

SCALE: N.T.S. DRAWN BY: DJM
 DATE: 07/07/05 CHECKED BY: BLU

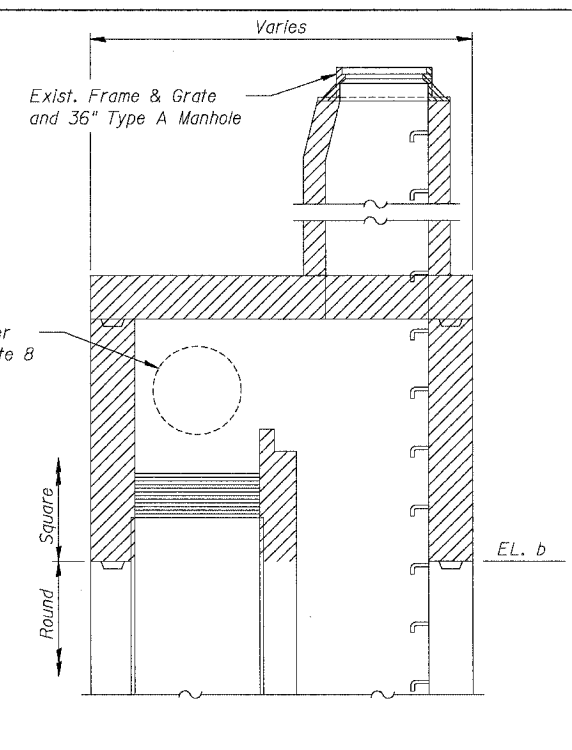
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	454
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302	1816, ETC, 2324.6-1PR-9			



REMOVAL PLAN
Shown for South oriented Drop Shaft
See As-Built plan info for other exist. information



SECTION K-K

JC T2 19-01	***
JC T2 20-01	***
JC T2 23-01	***
JC T2 24-01	***
JC T2 28-01	**
JC T2 32-01	**
JC T2 35-02	**
JC T2 37-01	***
JC T2 38-01	**
JC T2 41-01	**
JC T2 44-01	**

LEGEND:
[Hatched Box] Removal

- NOTES:**
1. Adjust elevations and dimensions provided in the table as necessary for the East and West pipe invert elevations set in the field.
 2. Adjust North and South connecting pipes to fit inside openings provided in Junction Chamber.
 3. For additional connections to the North and South riser shafts, see Drainage Plans.
 4. For As-Built drawings of the existing drop manholes, See Sheets JC-6 thru JC-22.
 5. Adjust station and offset provided in the table for the Work Point (W.P.) to match location of existing drop manhole found in the field.
 6. Contractor shall take care during removal of the existing drop manhole not to damage the existing clay drop shaft. Any repairs to the drop shaft shall not be measured for payment and shall be as directed by the Engineer.
 7. Removal of the existing drop manhole shall be included in the cost of the Junction Chamber and shall include the existing frame and lid, riser shafts, ladder rungs, concrete, reinforcement, and weir wall as shown. See Special Provisions.
 8. See Drainage Plans for location and abandonment/maintaining of existing storm sewers in drop manholes.

TABLE OF JUNCTION CHAMBER INFORMATION

Junction Chamber No.	Structure No.	Work Point		Existing Drop Manhole		North Rlm. EL.	South Rlm. EL.	EL. a	EL. b	West Pipe Connection				East Pipe Connection				North Pipe Connection			South Pipe Connection						
		Station	Offset	No.	Type					Pipe φ	Pipe Opening	Inv. El.	c	Pipe φ	Pipe Opening	Inv. El.	d	Pipe φ	Pipe Opening	Inv. El.	e	g	Pipe φ	Pipe Opening	Inv. El.	f	j
1	JC T2 19-01	2473+21	-6.0	-	B24N	-1.37	-1.36	-6.17	-14.92	36"	44"	-12.25	2'-9"	36"	44"	-12.25	2'-9"	15"	20"	-9.13	2'-2"	2'-0"	12"	16"	-9.32	2'-4"	2'-0"
2	JC T2 20-01	2478+13	-5.0	-	B24S	2.34	2.31	-3.95	-12.70	42"	51"	-9.99	2'-2"	42"	51"	-9.99	2'-2"	-	-	-	-	-	12"	16"	-7.32	2'-6"	2'-0"
3	JC T2 23-01	2499+01	-6.0	-	B24S	1.55	1.80	-3.56	-12.31	42"	51"	-9.60	2'-2"	42"	51"	-9.60	2'-2"	-	-	-	-	-	12"	16"	-6.56	2'-2"	2'-0"
4	JC T2 24-01	2504+44	-7.0	-	B24S	-2.14	-2.31	-4.94	-13.69	42"	51"	-10.98	2'-2"	42"	51"	-10.98	2'-2"	-	-	-	-	-	15"	20"	-9.11	3'-4"	2'-0"
5	JC T2 28-01	2527+73	-7.0	-	B36S	-4.21	-4.11	-11.39	-20.14	48"	51"	-17.39	1'-7"	42"	51"	-17.39	2'-2"	-	-	-	-	-	-	-	-	-	-
6	JC T2 32-01	2554+05	-3.2	DMH-48	B36S	-3.30	-3.21	-8.46	-17.21	42"	51"	-14.50	2'-2"	42"	51"	-14.50	2'-2"	12"	16"	-10.96	1'-8"	1'-11"	12"	16"	-10.96	1'-8"	1'-11"
7	JC T2 35-01	2568+63	-3.7	DMH-51	B36S	-3.55	-3.61	-8.76	-17.51	42"	51"	-14.80	2'-2"	36"	44"	-14.80	2'-8"	-	-	-	-	-	12"	16"	-11.26	1'-8"	1'-11"
8	JC T2 37-01	2580+04	-4.2	DMH-53	B24S	-4.36	-4.19	-10.42	-19.17	36"	44"	-16.50	2'-9"	36"	44"	-16.50	2'-9"	-	-	-	-	-	-	-	-	-	-
9	JC T2 38-01	2584+42	-7.2	DMH-54	36"DR	-3.37	-3.59	-8.50	-17.25	48"	58"	-14.50	1'-7"	42"	51"	-14.50	2'-1"	12"	16"	-11.00	1'-8"	1'-11"	12"	16"	-11.00	1'-8"	1'-11"
10	JC T2 41-01	2607+79	-7.9	DMH-57	36"DR	-1.18	-1.12	-9.00	-17.75	48"	58"	-15.00	1'-7"	48"	58"	-15.00	1'-7"	-	-	-	-	-	-	-	-	-	-
11	JC T2 44-01	2620+94	-4.0	DMH-59	36"DR	-0.69	-0.56	-9.96	-18.71	42"	51"	-16.00	2'-2"	42"	51"	-16.00	2'-2"	-	-	-	-	-	-	-	-	-	-

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REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

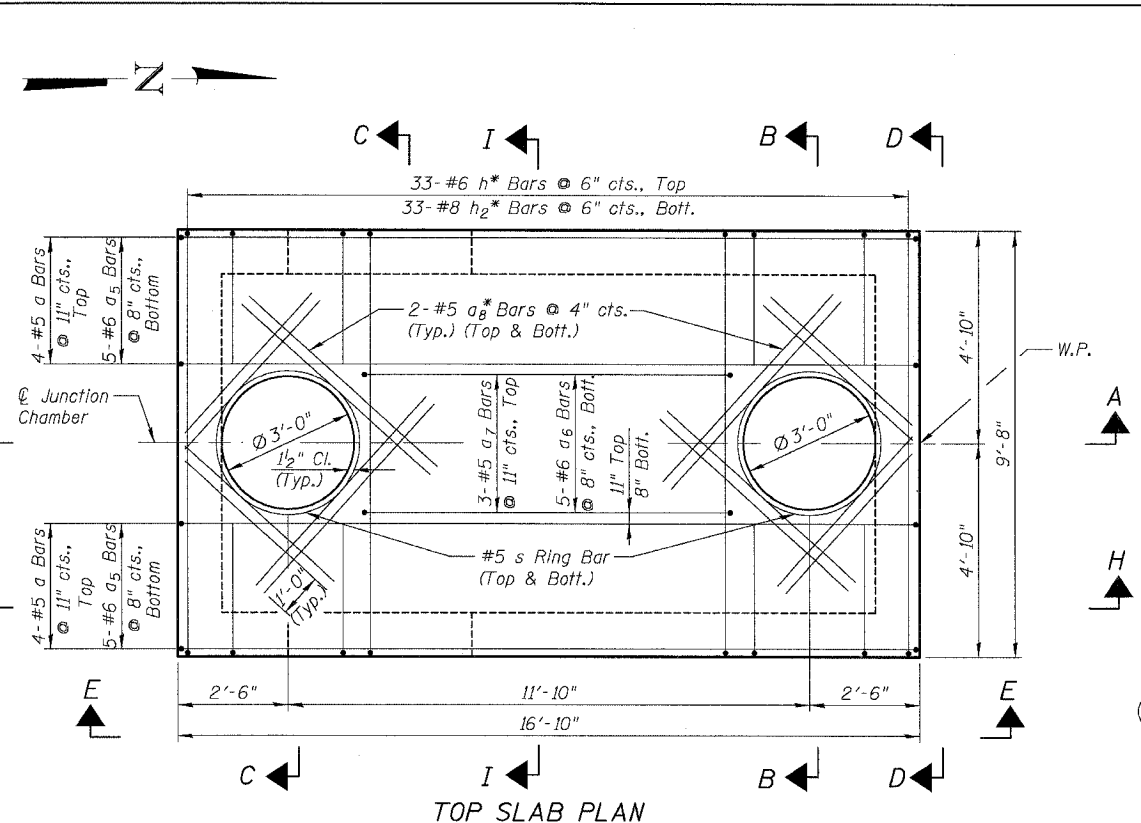
SHEET JC-2 OF JC-22

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
JUNCTION CHAMBER, TYPE 2
REMOVAL PLAN

SCALE: N.T.S. DRAWN BY: DJM
DATE: 07/07/05 CHECKED BY: BLU

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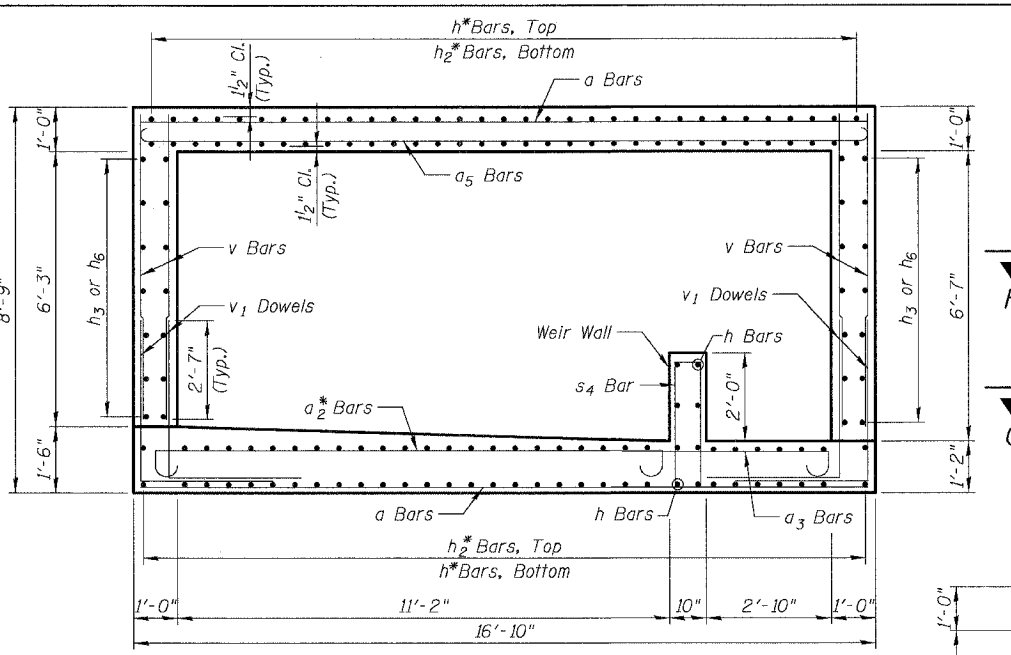
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	455
STA.		TO STA.		
62302		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		* (1818, ETC, 2324, 6-1P1R-9		



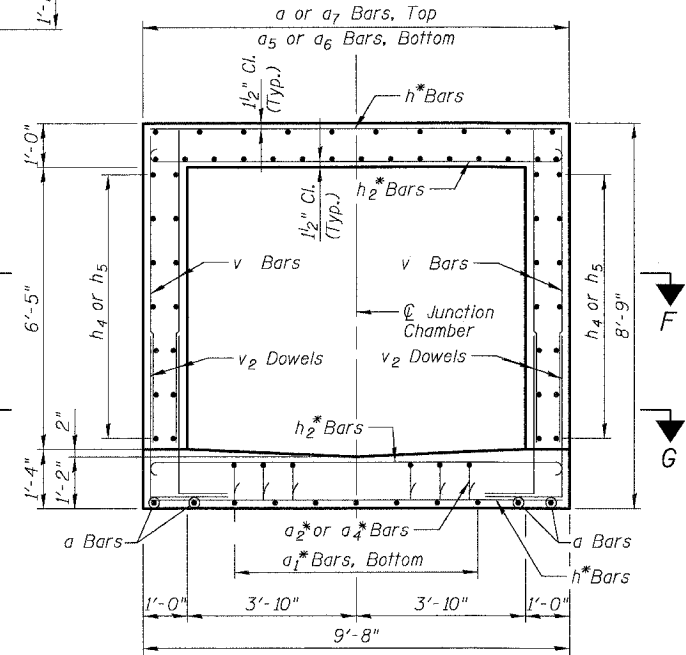
TOP SLAB PLAN

Adjust openings in top slab for final location of frame and grate required due to roadway barrier location. Adjust reinforcement as required for position of openings.

JC T2 19-01	***
JC T2 20-01	***
JC T2 23-01	***
JC T2 24-01	***
JC T2 28-01	**
JC T2 32-01	**
JC T2 35-02	**
JC T2 37-01	***
JC T2 38-01	**
JC T2 41-01	**
JC T2 44-01	**



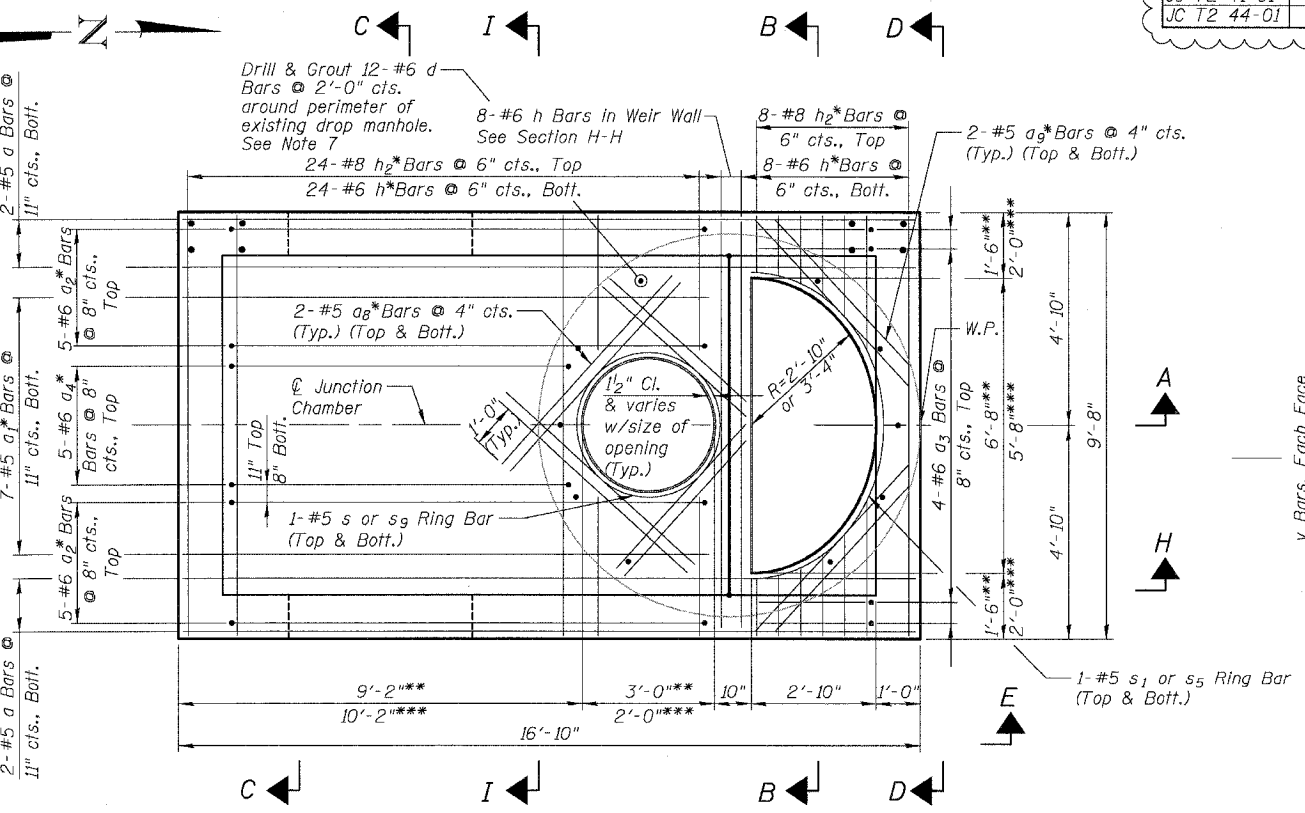
SECTION H-H



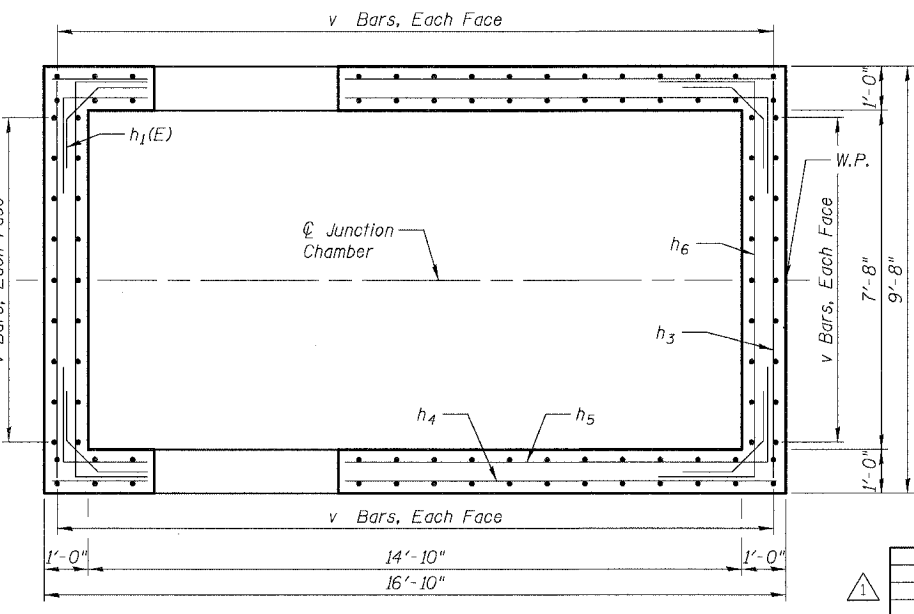
SECTION I-I

NOTES:

1. See Sheet JC-4 for Sections A-A, B-B, C-C, D-D and Sectional Plan G-G. See Sheet JC-5 for Section E-E and Bill of Bars.
2. All dimensions and elevations shall be field verified prior to construction.
3. Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
4. Manhole Frame, Ladder Rungs and any inserts installation shall be coordinated with Drainage Plans.
5. Concrete cover for reinforcement steel to be 2" unless otherwise noted.
6. All lap splices marked on the drawings are minimum.
7. Epoxy Grout #6 d bars in drilled holes with a min. depth of 9" in accordance with Art. 584 of the Std. Specs. Drill holes a min. of 4" from edge of existing concrete. Orient hook to fit.



BOTTOM SLAB PLAN



SECTIONAL PLAN F-F

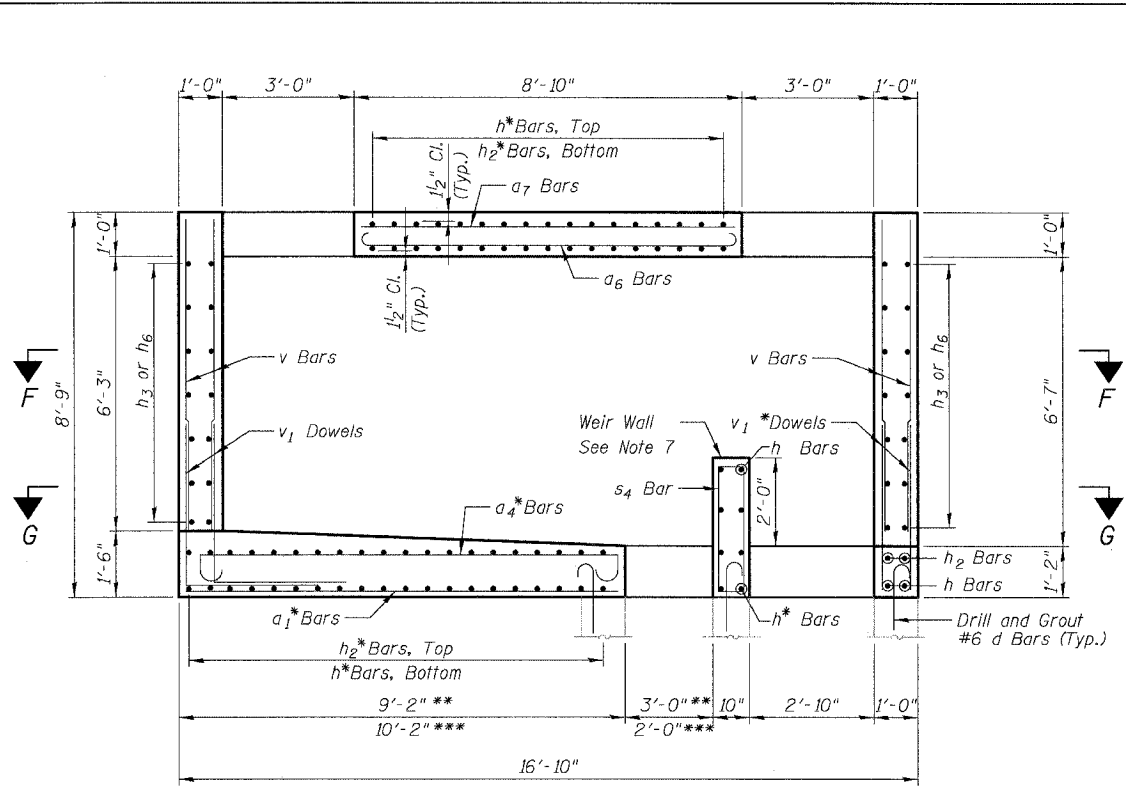
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Chicago, Illinois
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www.bbainc.com

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
JUNCTION CHAMBER, TYPE 2
REINFORCEMENT DETAILS 1
SCALE: N.T.S. DRAWN BY: DJM
DATE: 07/07/05 CHECKED BY: BLU

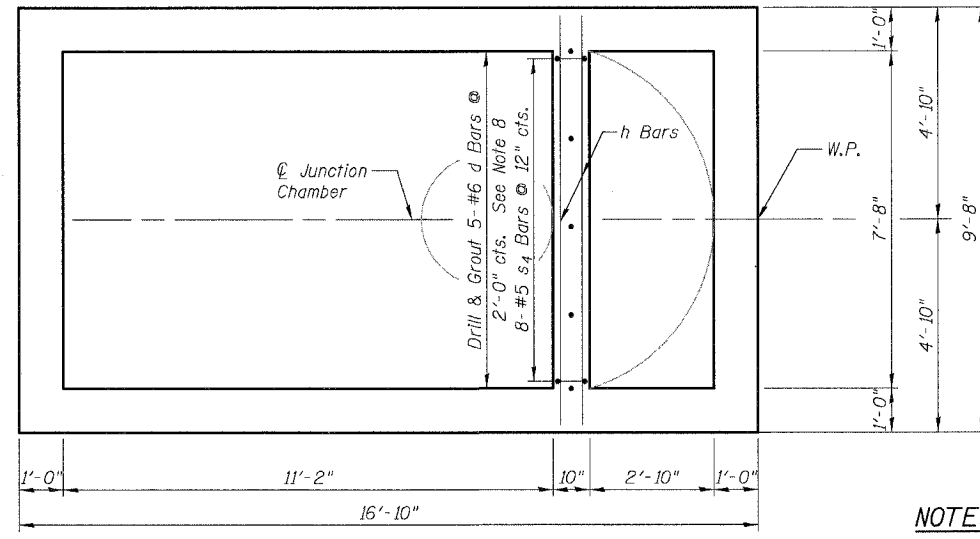
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	456
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62302		* (1818, ETC, 2324.6-1)IR-9		



SECTION A-A

JC T2 19-01	***
JC T2 20-01	***
JC T2 23-01	***
JC T2 24-01	***
JC T2 28-01	**
JC T2 32-01	**
JC T2 35-02	**
JC T2 37-01	***
JC T2 38-01	**
JC T2 41-01	**
JC T2 44-01	**



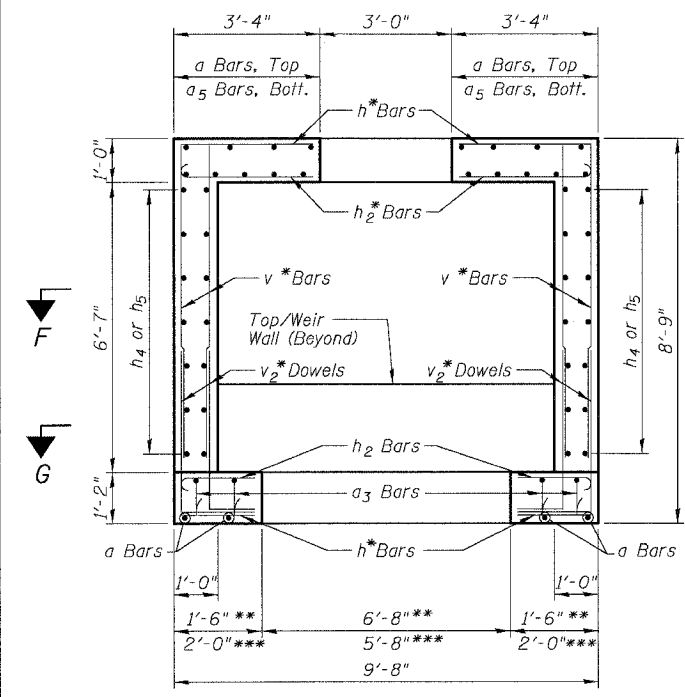
SECTIONAL PLAN G-G

See Sectional Plan F-F on Sheet JC-3 for Reinforcement not shown

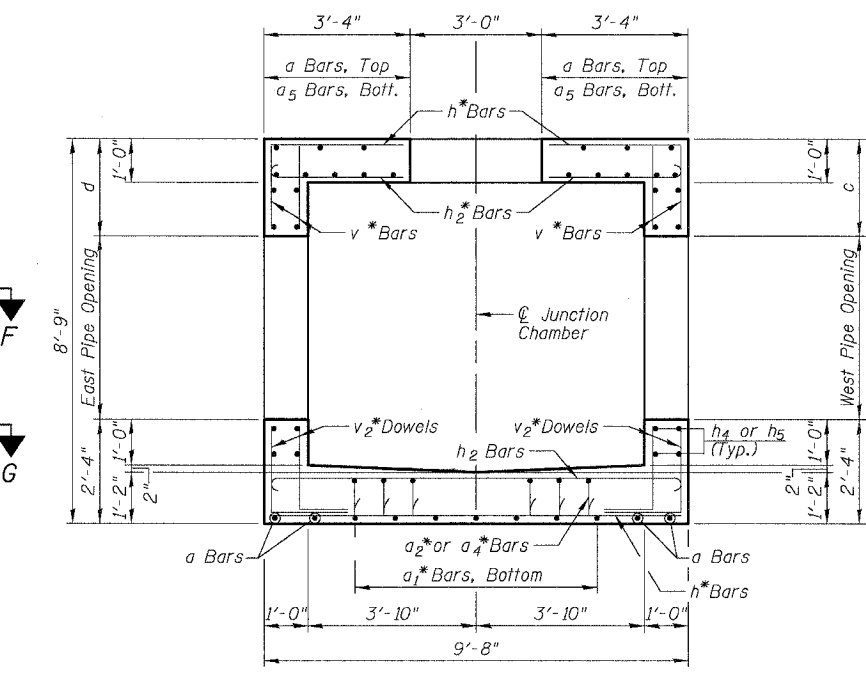
NOTES:

- All dimensions and elevations shall be field verified prior to construction.
- For Pipe Openings and dimensions c, d, e, f, g, and j, see "Table of Junction Chamber Information" on Sheet JC-2.
- Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
- Manhole Frame, Ladder Rungs and any inserts installation shall be coordinated with Roadway Plans.
- Concrete cover for reinforcement steel to be 2" unless otherwise noted.
- All lap splices marked on the drawings are minimum.
- Provide 1" Galvanized Rod and formed notch to match existing removed from weir wall. Cost included with Junction Chamber of the number specified.
- Epoxy Grout #6 d bars in drilled holes with a min. depth of 9" in accordance with Art. 584 of the Std. Specs. Drill holes a min. of 4" from edge of existing concrete. Orient hook to fit..

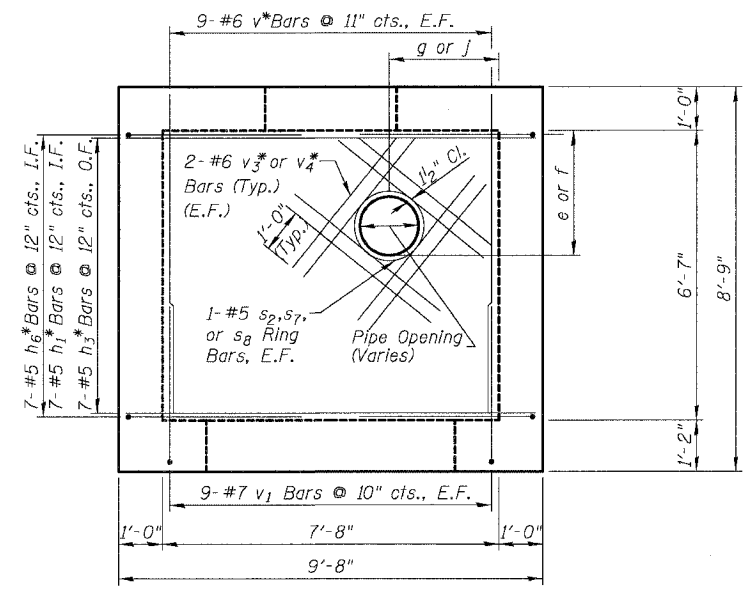
- * - Cut bars to fit in field.
- E.F. - denotes Each Face
- E.S. - denotes Each Side
- I.F. - denotes Inside Face
- O.F. - denotes Outside Face



SECTION B-B



SECTION C-C



SECTION D-D

(Opposite Wall Typical)

REVISIONS		
NAME	DATE	
ADDENDUM 1	8/12/05	

SHEET JC-4 OF JC-22
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 JUNCTION CHAMBER, TYPE 2
 REINFORCEMENT DETAILS 2
 SCALE: N.T.S. DRAWN BY: DJM
 DATE: 07/07/05 CHECKED BY: BLU

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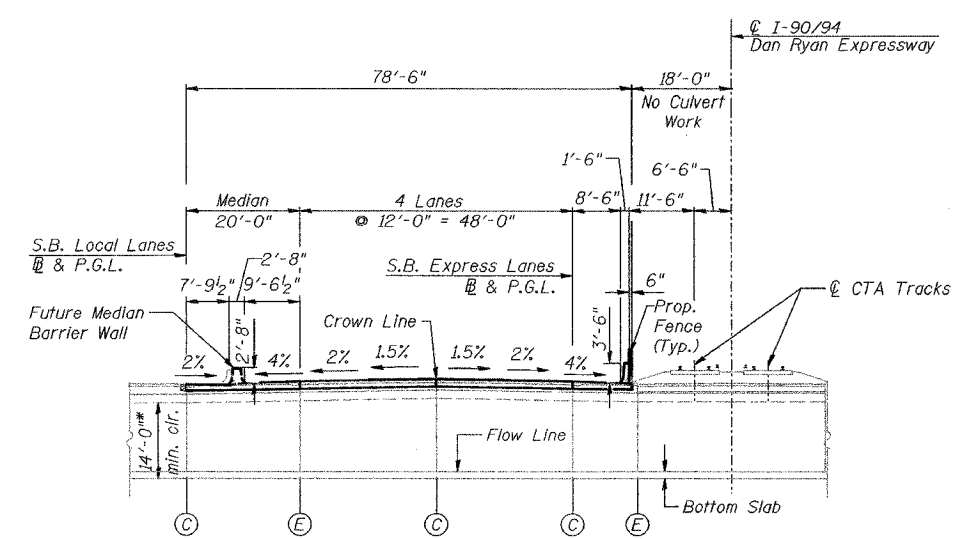
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	475
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302			(1818, ETC, 2324.6-IPR-9)	

Benchmark: BM No. 3540

"□" Cut on the Southwest corner of traffic control box at the Northeast corner of 39th and LaSalle Streets. E.I. 12.33

Existing Structure: The existing structure was built in 1962 under Section S-2323.2-4B and is identified as S.N. 016-2625. The structure is a 12'-0" clear span by 14'-0" clear height double barrel reinforced concrete box culvert. It conveys sanitary and storm water under the Dan Ryan Expressway for the MWRDGC. The length of culvert under the expressway is 325'-0" and the culvert transitions horizontally, vertically and in cross section to connect to an existing circular brick sewer under the centerline of 39th Street. The top slab of the culvert is the expressway pavement and consists of a minimum of 1'-3" of reinforced concrete with an approximately 5" thick overlay (either concrete or bituminous). The centerline of the culvert has no skew relative to the Dan Ryan baselines. There are 20'-6" long approach slabs on each side of the culvert over the width of the traffic lanes. Barrier wall is attached to the top slab and separates the express and local lanes of the expressway and the expressway from the CTA tracks. The barrier is supported by PCC shoulders outside the limits of the culvert. The culvert will be rehabilitated utilizing stage construction. Portions of the top slab and all components of the culvert below grade shall be re-used.

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



GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

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 bid for the work.

All construction joints shall be bonded.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
Bridge Approach Pavement	Sq. Yd.	452
Bituminous Surface Removal, 5"	Sq. Yd.	143
Bituminous Surface Removal (Variable Depth)	Sq. Yd.	82
Approach Slab Removal	Sq. Yd.	219
Concrete Superstructure	Cu. Yd.	112.2
Bridge Deck Grooving	Sq. Yd.	218
Protective Coat	Sq. Yd.	265
Reinforcement Bars, Epoxy Coated	Pound	21,450
Bar Splicers	Each	257
Concrete Slab Hydro-Demolition	Sq. Yd.	237
CTA Fence	Foot	87
Video Taping of MWRD Culvert	Foot	245
Temporary CTA Ballast Retention	L. Sum	1

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44 & ALT.

Allow 50#/#sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

New:
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

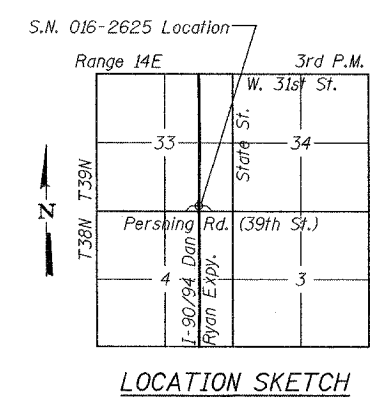
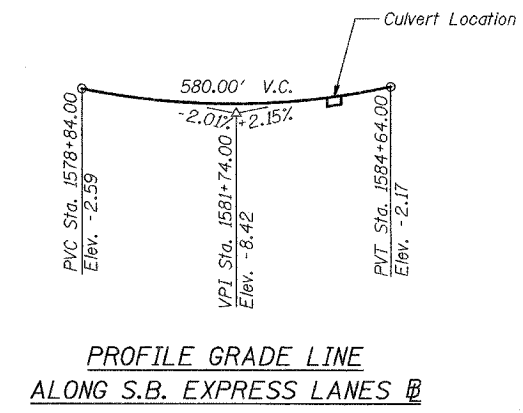
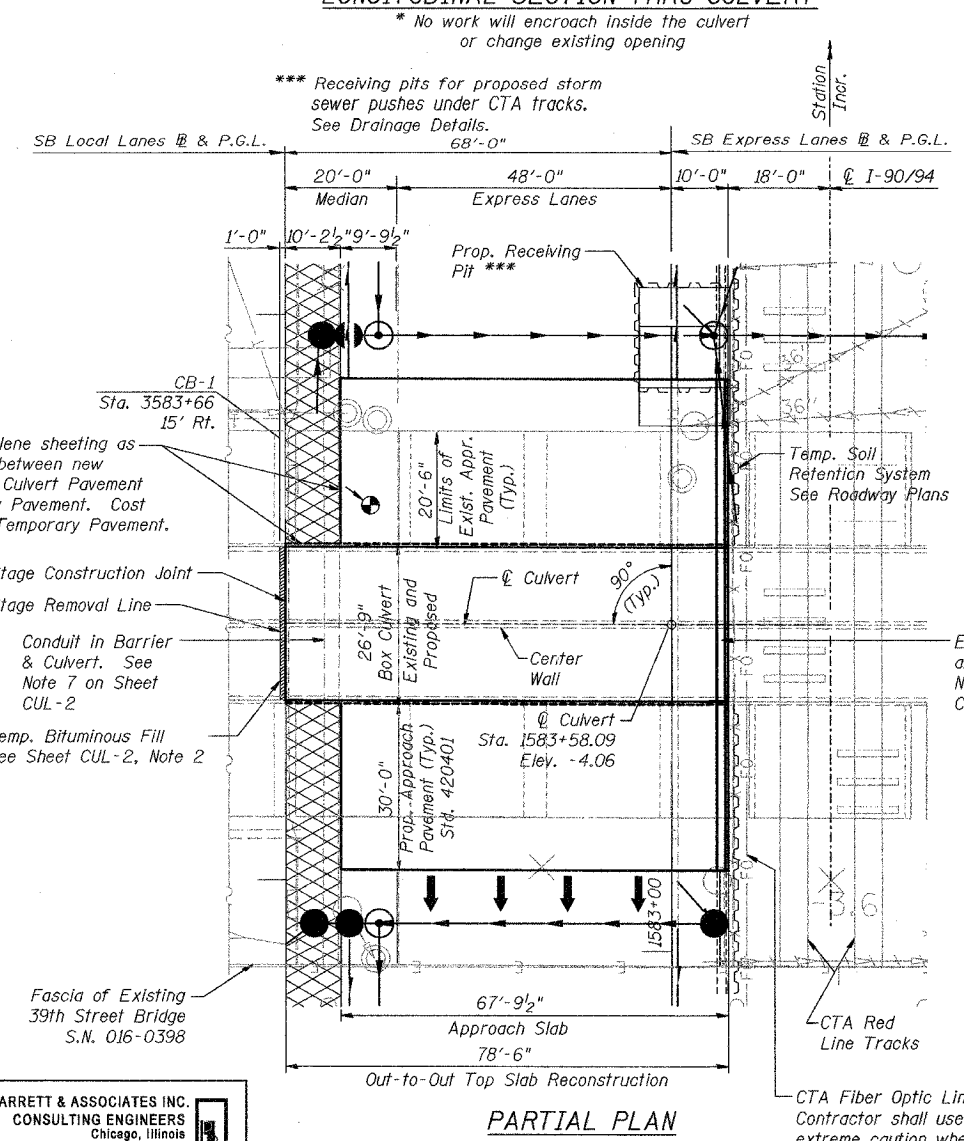
Existing:
 f'c = 3,500 psi
 fy = 40,000 psi (Reinforcement)

LEGEND

- CB-1 = Soil Boring Location
- = Exist. Catch basin
- ⊙ = Exist. Manhole
- = Exist. Inlet
- = Exist. Storm sewer
- = Exist. Underdrain
- = Prop. Catch basin
- ⊙ = Prop. Manhole
- = Prop. Storm sewer
- = Prop. Underdrain
- ▨ = Temporary Pavement
- ▩ = Temporary Bituminous Fill

ABBREVIATIONS

- MWRDGC = Metropolitan Water Reclamation or MWRD District of Greater Chicago
- CTA = Chicago Transit Authority
- E = Expansion Joint
- C = Construction Joint
- P.G.L. = Profile Grade Line
- NB = Northbound
- SB = Southbound



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Adams
 ENGINEER OF BRIDGES AND STRUCTURES



Brian L. Umbright
 Date: July 7, 2005
 License Expires: November 30, 2006

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/09

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SHEET CUL-1 OF CUL-14
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 MWRD CULVERT, N. OF 39TH ST.,
 COOK COUNTY, S.N. 016-2625
 GENERAL PLAN

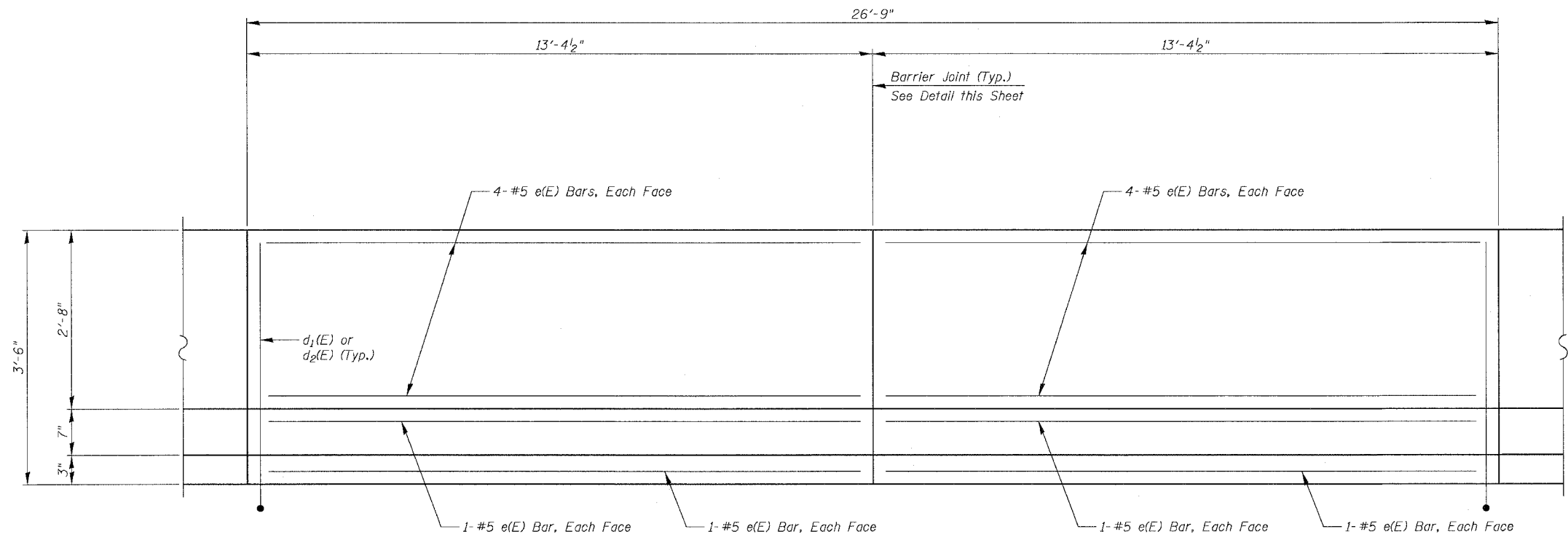
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 DATE: 07/07/05 CHECKED BY: BLU

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	479
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302		*1818, ETC, 2324.6-1PIR-9		

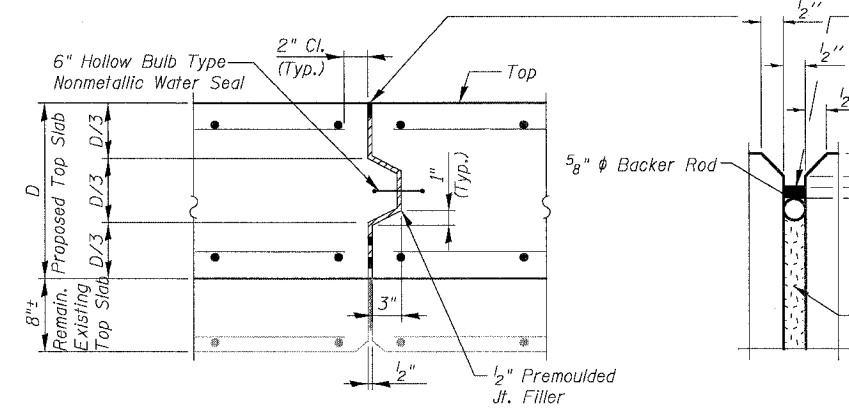
**TOP SLAB
BILL OF MATERIAL**

Bar No.	Size	Length	Shape
a(E)	#5	10'-2"	—
a ₁ (E)	#5	23'-8"	—
a ₂ (E)	#5	21'-10"	—
a ₃ (E)	#5	10'-2"	—
a ₄ (E)	#5	23'-8"	—
a ₅ (E)	#5	19'-8"	—
a ₆ (E)	#6	4'-6"	—
b(E)	#7	26'-5"	—
b ₁ (E)	#7	8'-0"	—
b ₂ (E)	#7	28'-1"	—
b ₃ (E)	#7	4'-0"	—
b ₄ (E)	#5	26'-5"	—
d ₁ (E)	#6	5'-7"	L
d ₂ (E)	#5	5'-9"	L
e(E)	#5	13'-0"	—
Concrete Superstructure			Cu. Yd. 104.1
Bridge Deck Grooving			Sq. Yd. 812
Protective Coat			Sq. Yd. 235
Reinforcement Bars, Epoxy Coated			Pound 19,260
Bar Splicers			Each 133
CTA Fence			Foot 27

Reinforcement bars designated (E) shall be epoxy coated.
CTA Fence not shown for clarity. See Roadway Plans for fence details.
Cost of water seal, P.J.F. and Sealant included in the cost of Concrete Superstructure.



INSIDE ELEVATION OF SINGLE FACE BARRIER

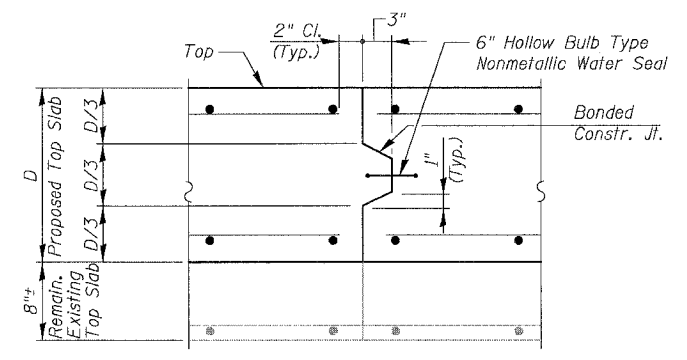


Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, Use T.

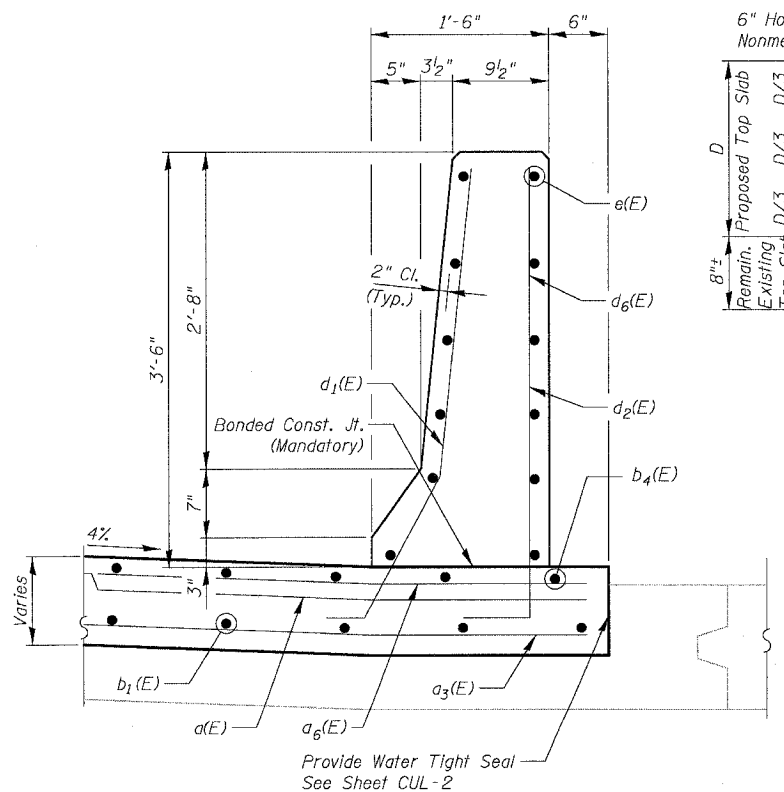
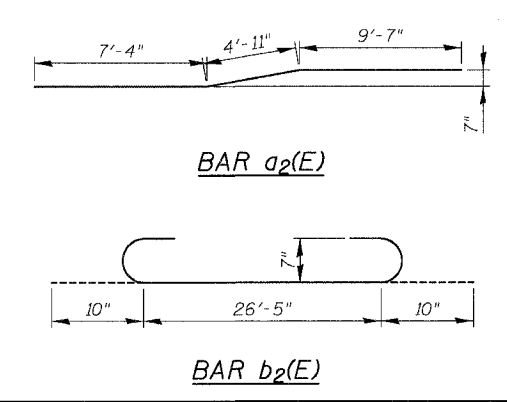
1/2" Preformed Self-Expanding Cork Joint Filler according to Article 105.107 of the Std. Spec. Cost included with Concrete Superstructure.

CULVERT EXPANSION JOINT

Do not seal until after grooving operations



BARRIER JOINT DETAILS



SECTION THRU SINGLE FACE BARRIER

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Chicago, Illinois
312 228 0100
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REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

SHEET CUL-5 OF CUL-14

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
MWRD CULVERT, N. OF 39TH ST.,
COOK COUNTY, S.N. 016-2625
SUPERSTRUCTURE DETAILS

SCALE: N.T.S. DRAWN BY: MTR
DATE: 07/07/05 CHECKED BY: BLU

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B-3341 JM

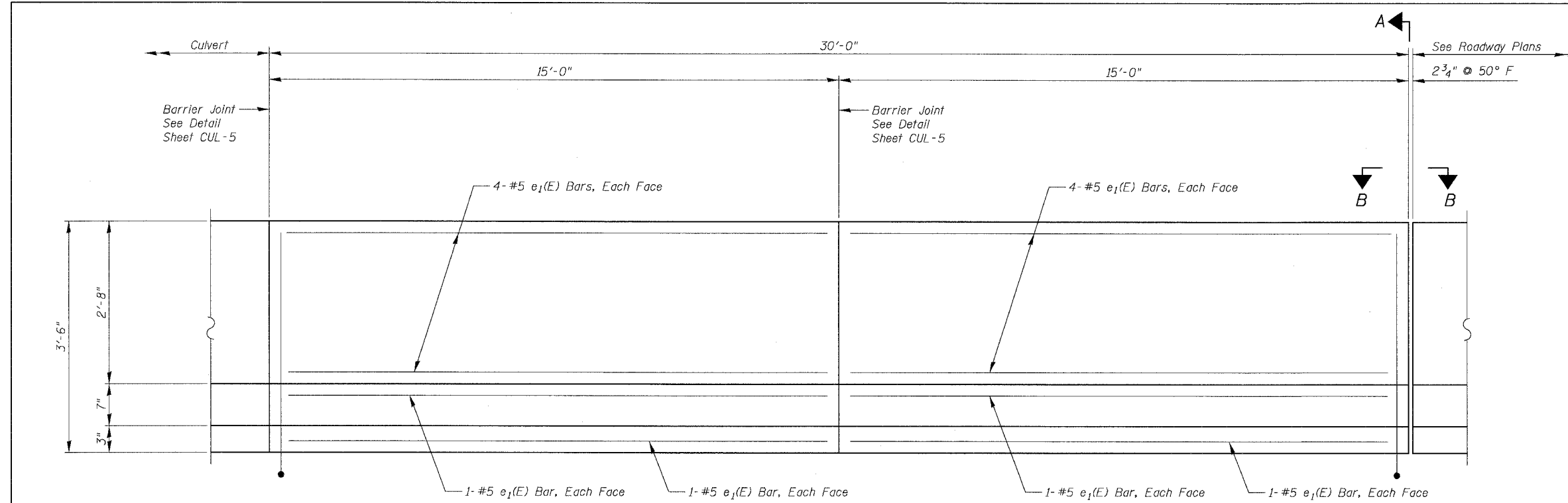
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62302	*1818, ETC, 2324.6-1P1R-9			

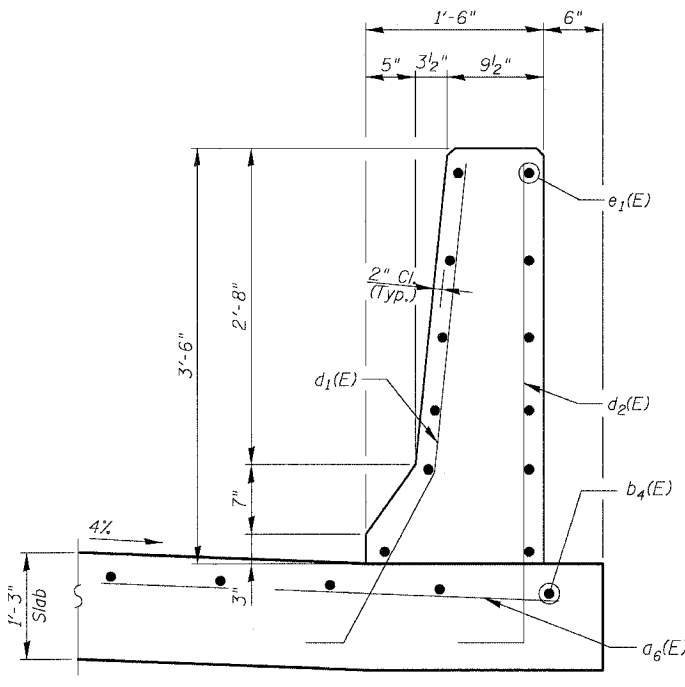
**APPROACH PAVEMENT
BILL OF MATERIAL
TOTAL FOR 2 APPROACH SLABS**

Bar	No.	Size	Length	Shape
a ₆ (E)	42	#6	4'-6"	—
b ₅ (E)	10	#5	29'-6"	—
d ₁ (E)	60	#6	5'-7"	L
d ₂ (E)	60	#5	5'-9"	L
e(E)	48	#5	14'-8"	—
Bridge Approach Pavement			Sq. Yd.	452
Concrete Superstructure			Cu. Yd.	8.1
Protective Coat			Sq. Yd.	30
Reinforcement Bars, Epoxy Coated			Pound	2,190
Bar Splicers			Each	124
CTA Fence			Foot	60

See IDOT Standard 420401 for typical approach pavement reinforcing and details. Additional reinforcement bars, bar splicers, and concrete for single face barrier not shown on Std. 420401 shall be paid for as Reinforcement Bars, Epoxy Coated, Bar Splicers, and Concrete Superstructure. Reinforcement bars designated (E) shall be epoxy coated. CTA Fence not shown for clarity. See Roadway Plans for fence details. See Sheet CUL-4 for treatment of Approach Slab/Culvert Slab joint. Apply Protective Coat to top and inside face of single face barrier.

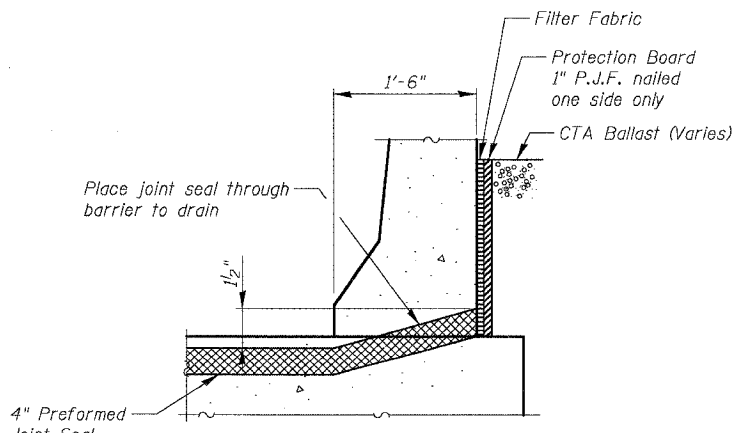


INSIDE ELEVATION OF SINGLE FACE BARRIER ON APPROACH PAVEMENT

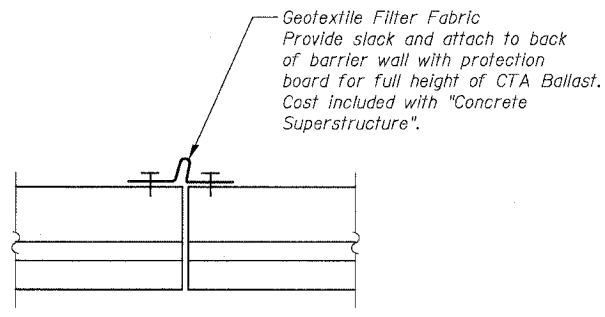


SECTION THRU SINGLE FACE BARRIER

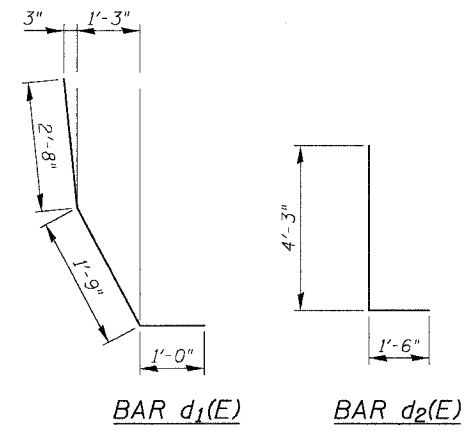
Note: Standard Approach Pavement reinforcement not shown for clarity



SECTION A-A



VIEW B-B



BAR d₁(E)

BAR d₂(E)

REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

SHEET CUL-7 OF CUL-14

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
MWRD CULVERT, N. OF 39TH ST.,
COOK COUNTY, S.N. 016-2625
APPROACH SLAB DETAILS 2

SCALE: N.T.S. DRAWN BY: MTR
DATE: 07/07/05 CHECKED BY: BLU

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	482
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		62302	
	*181B, ETC, 2324.6-1P1R-9			

NOTES

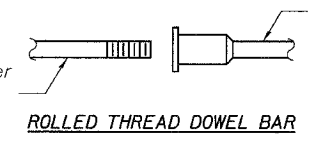
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 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:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#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
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

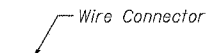
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



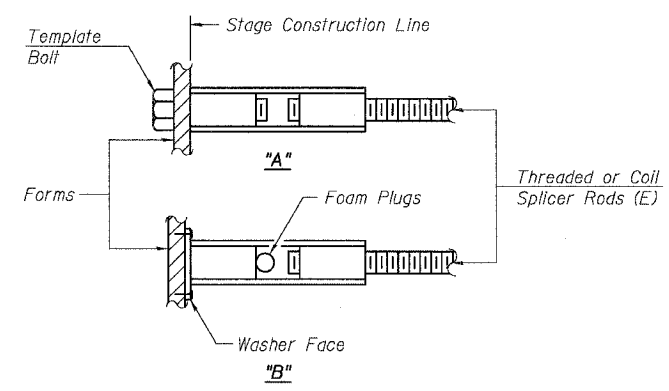
**** ONE PIECE**



WELDED SECTIONS

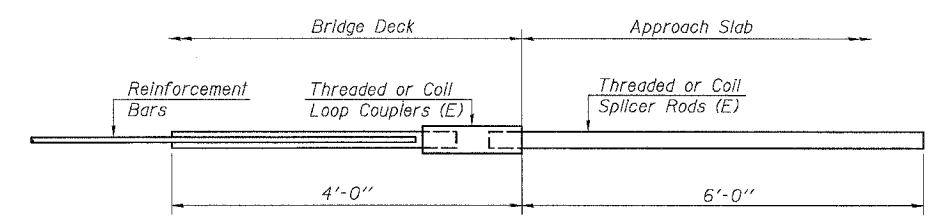
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



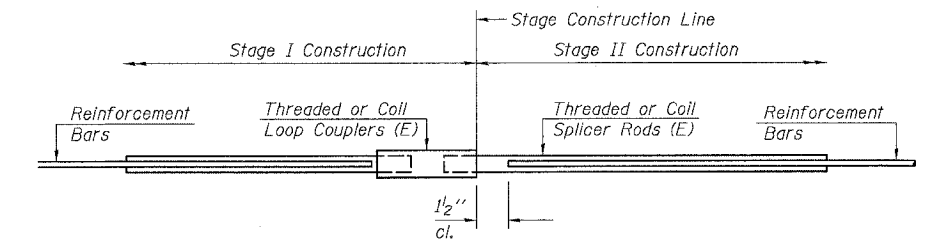
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



FOR BOX CULVERT

Bar Splicer for #7 bar
Min. Capacity = 45.1 kips - tension
Min. Pull-out Strength = 18.0 kips - tension
No. Required = 79



STANDARD

Bar Size	No. Assemblies Required	Location
#5	54	Culvert Slab
#4	16	Approach Slab
#5	60	Approach Slab
#5	48	Approach Sleeper Slab

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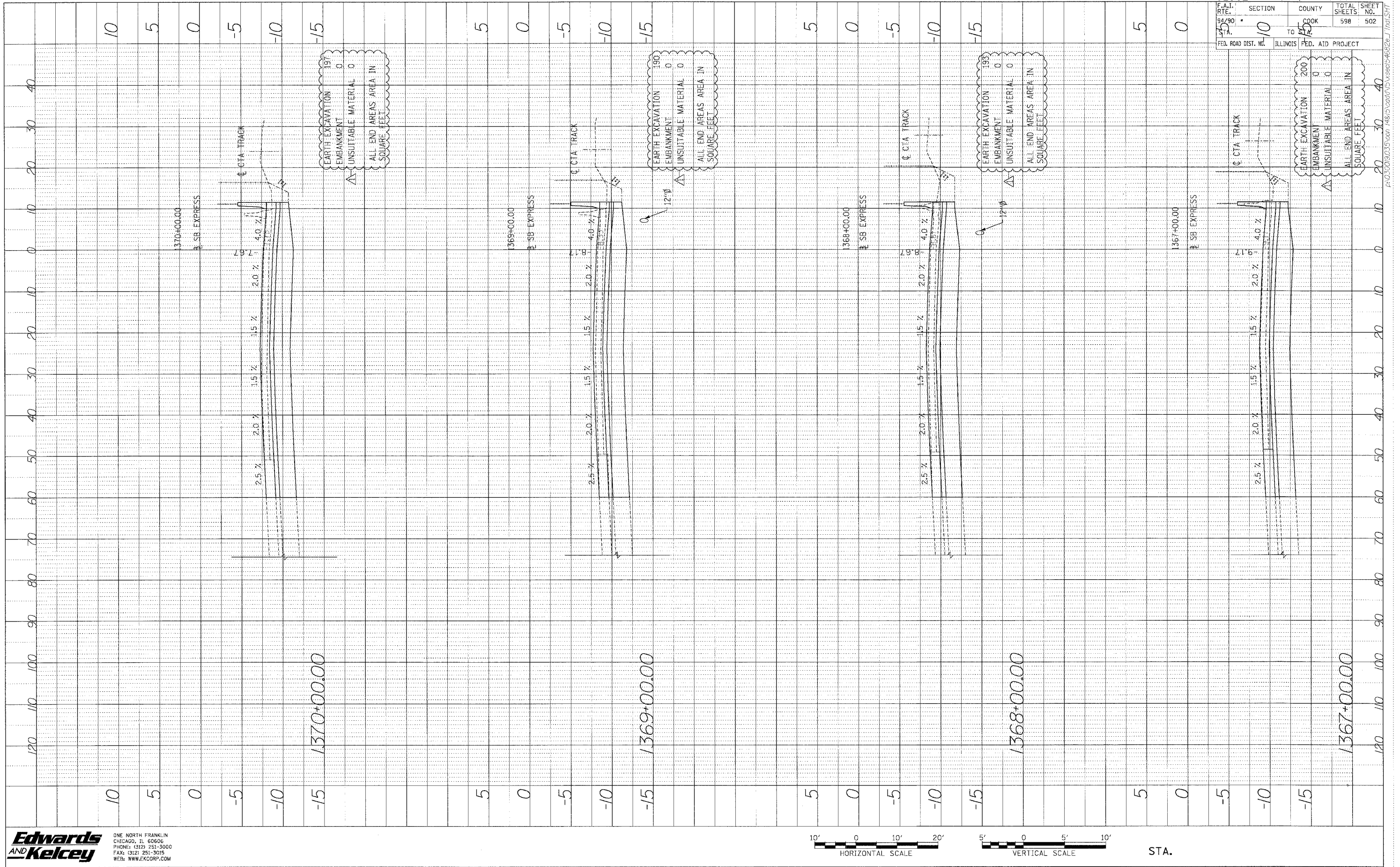
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REVISIONS	
NAME	DATE
ADDENDUM 1	8/12/05

SHEET CUL-8 OF CUL-14
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 SB EXPRESS LANE RECONSTRUCTION
 MWRD CULVERT, N. OF 39TH ST.
 COOK COUNTY, S.N. 016-2625
BAR SPLICER DETAILS
 SCALE: N.T.S. DRAWN BY: MTR
 DATE: 07/07/05 CHECKED BY: BLU

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 P. A. S. (OFFERED)
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 STRUCTURE: MOTIVINE CHRG



62302 • (1818, ETC, 2324.6-IPR-9
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 COOK 598 502
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

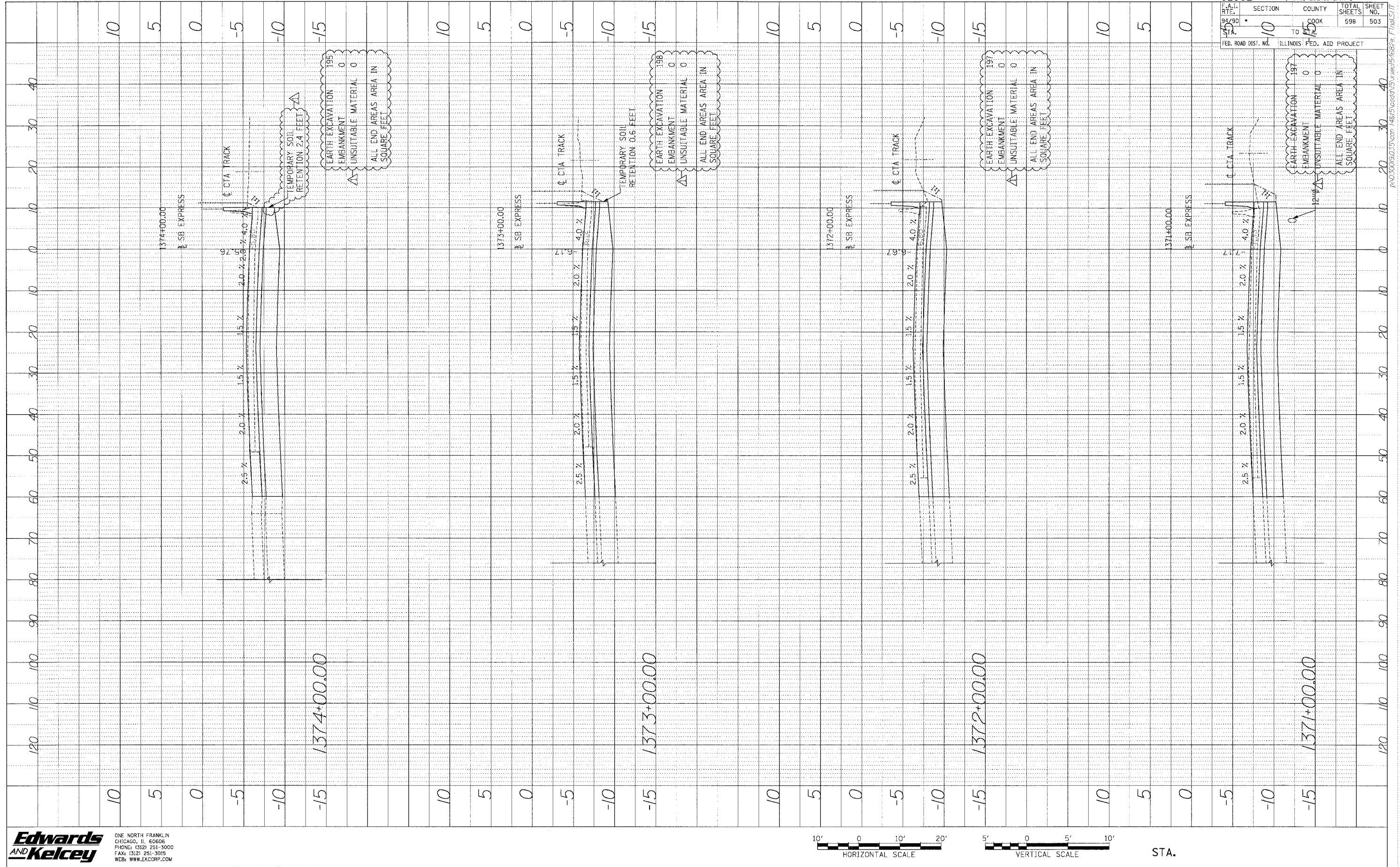
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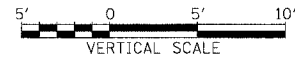
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NO. 17	REVISED		
NO. 18	REVISED		
NO. 19	REVISED		
NO. 20	REVISED		



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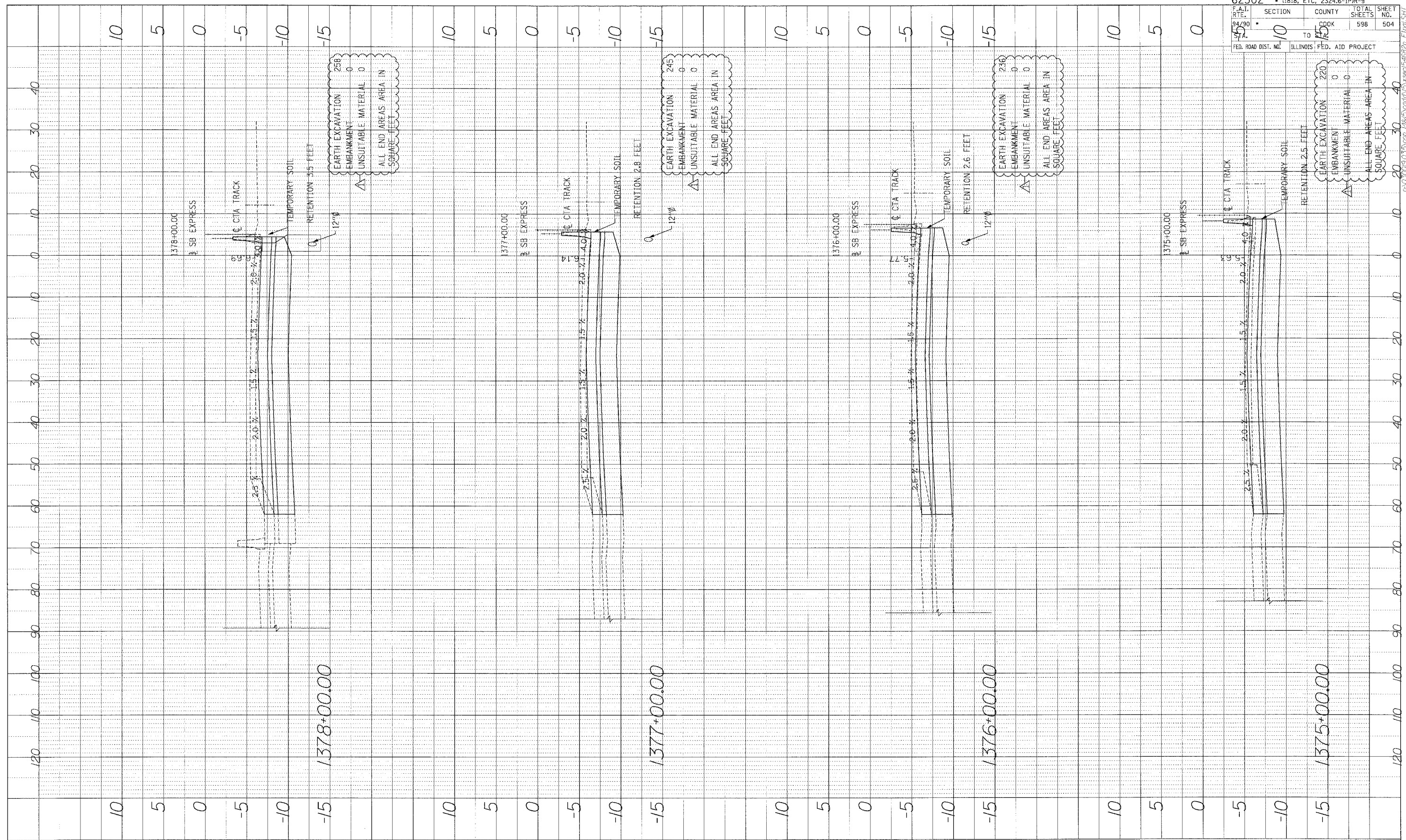


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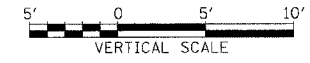
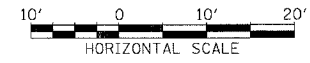
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COUNTY COOK	TOTAL SHEETS 598
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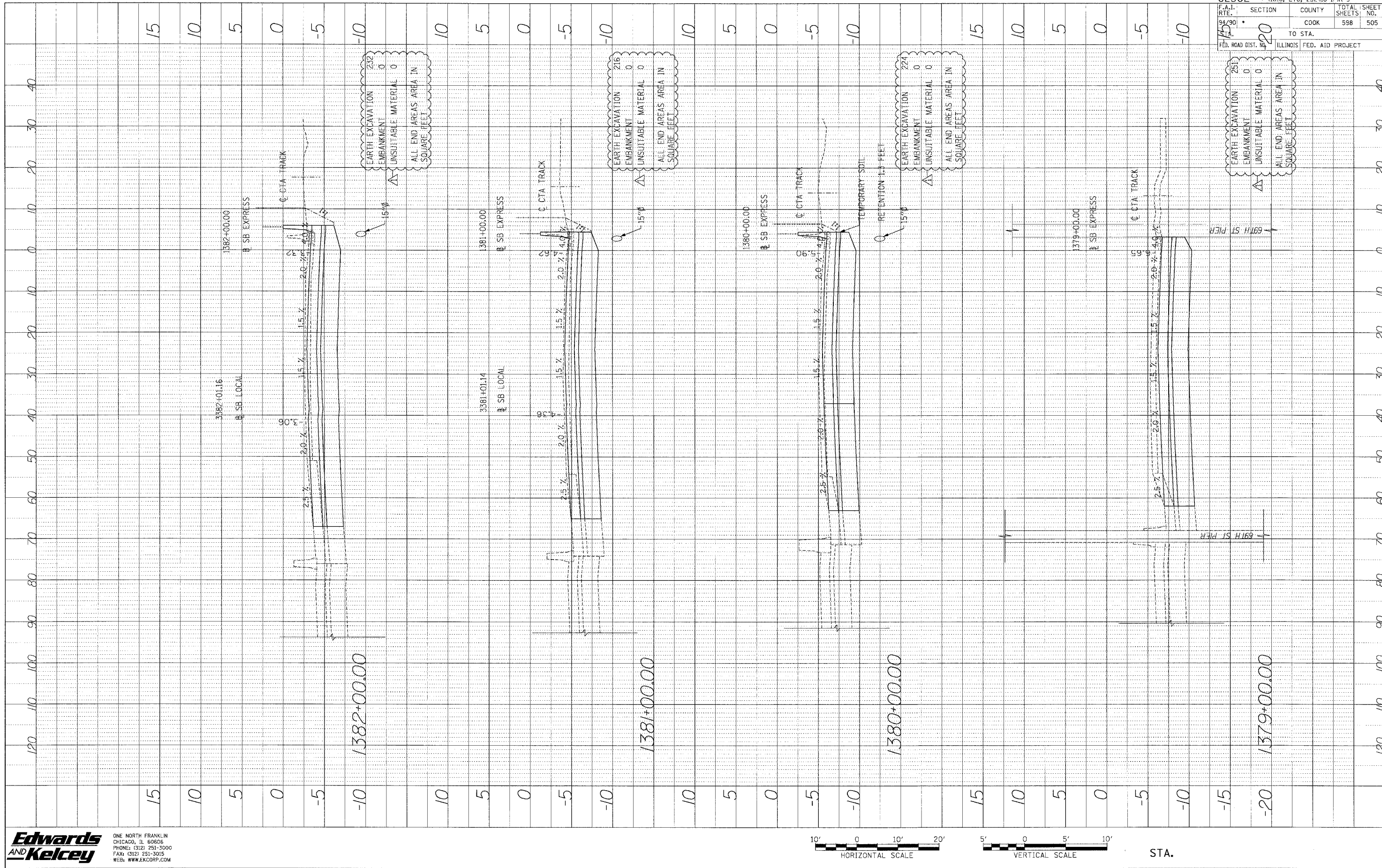
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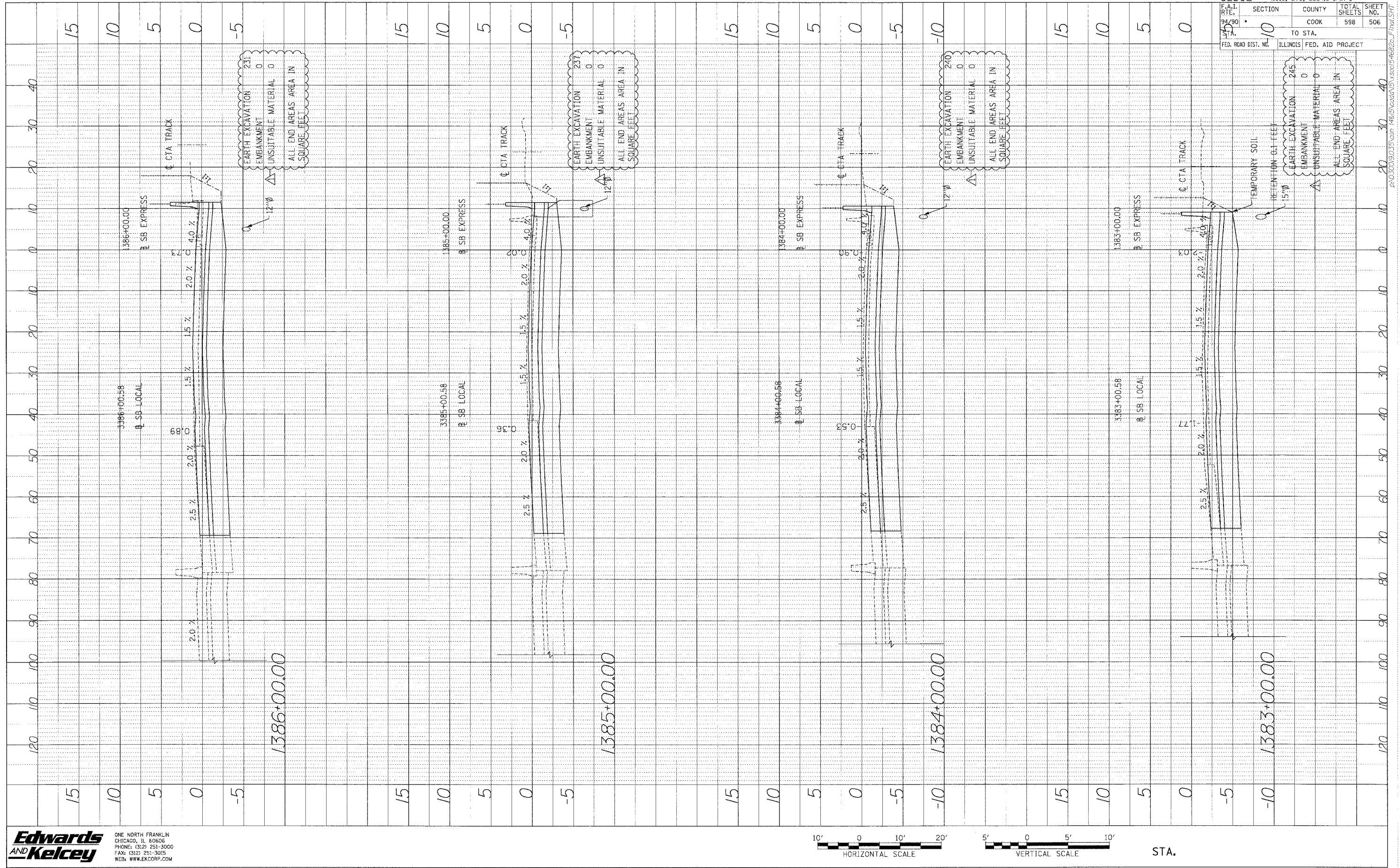
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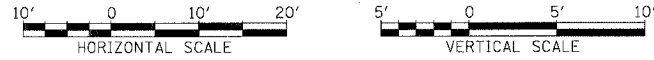
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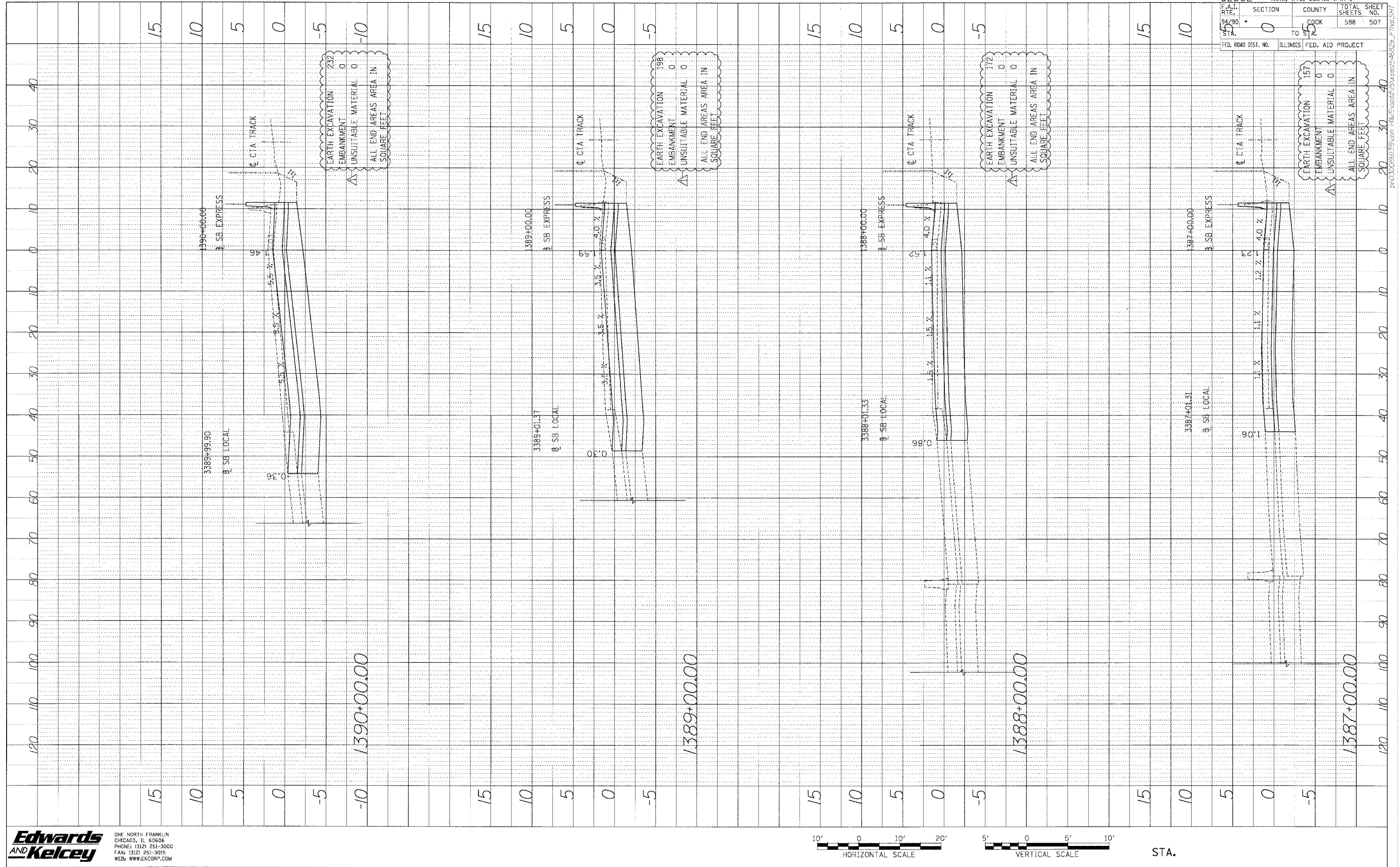
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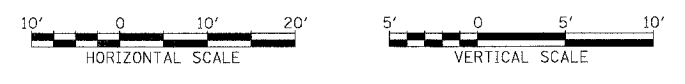
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 SECTION COUNTY TOTAL SHEET
 94/80 COOK 598 507
 STA. TO 5
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



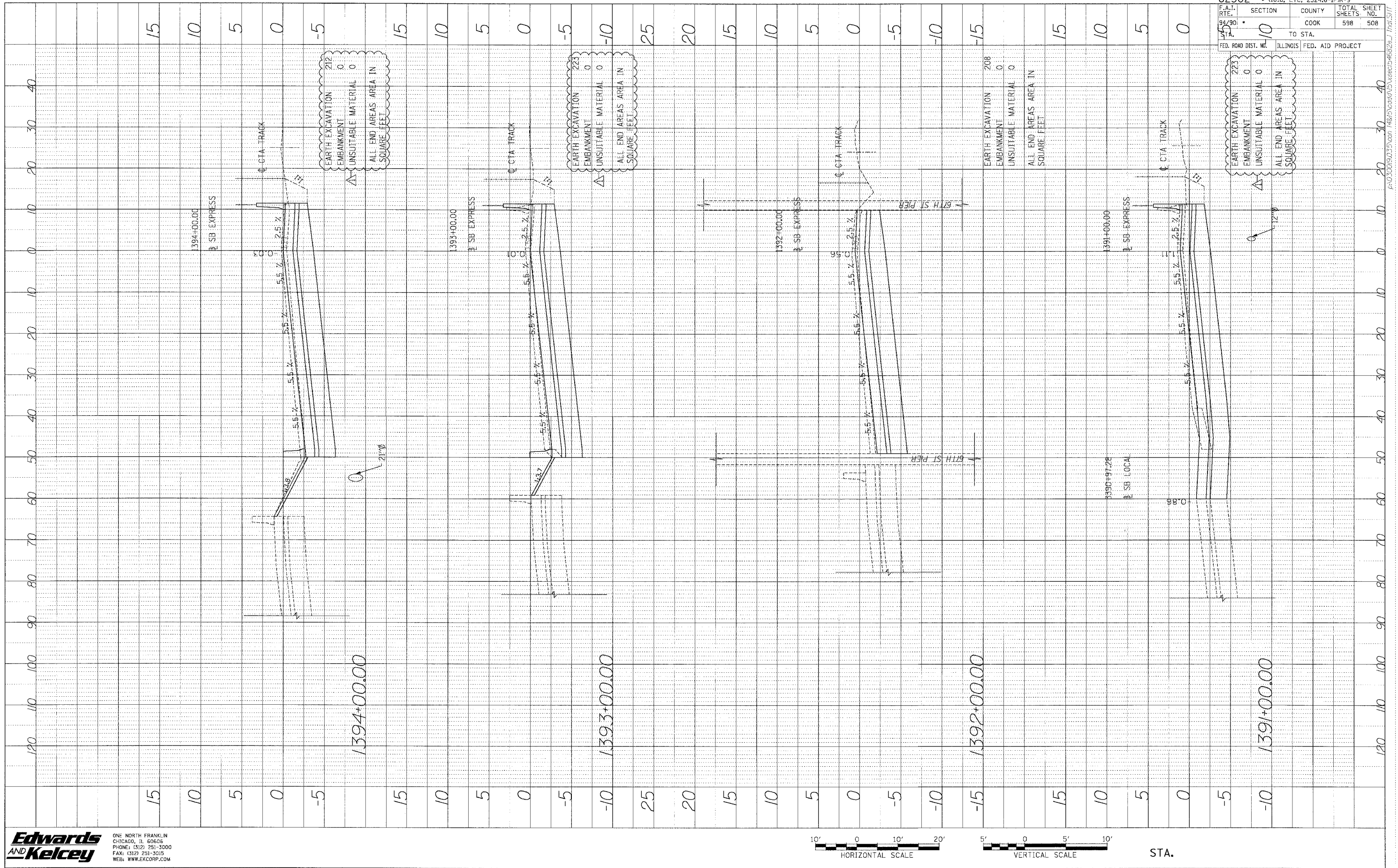
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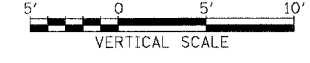
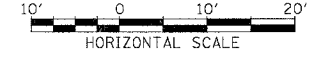
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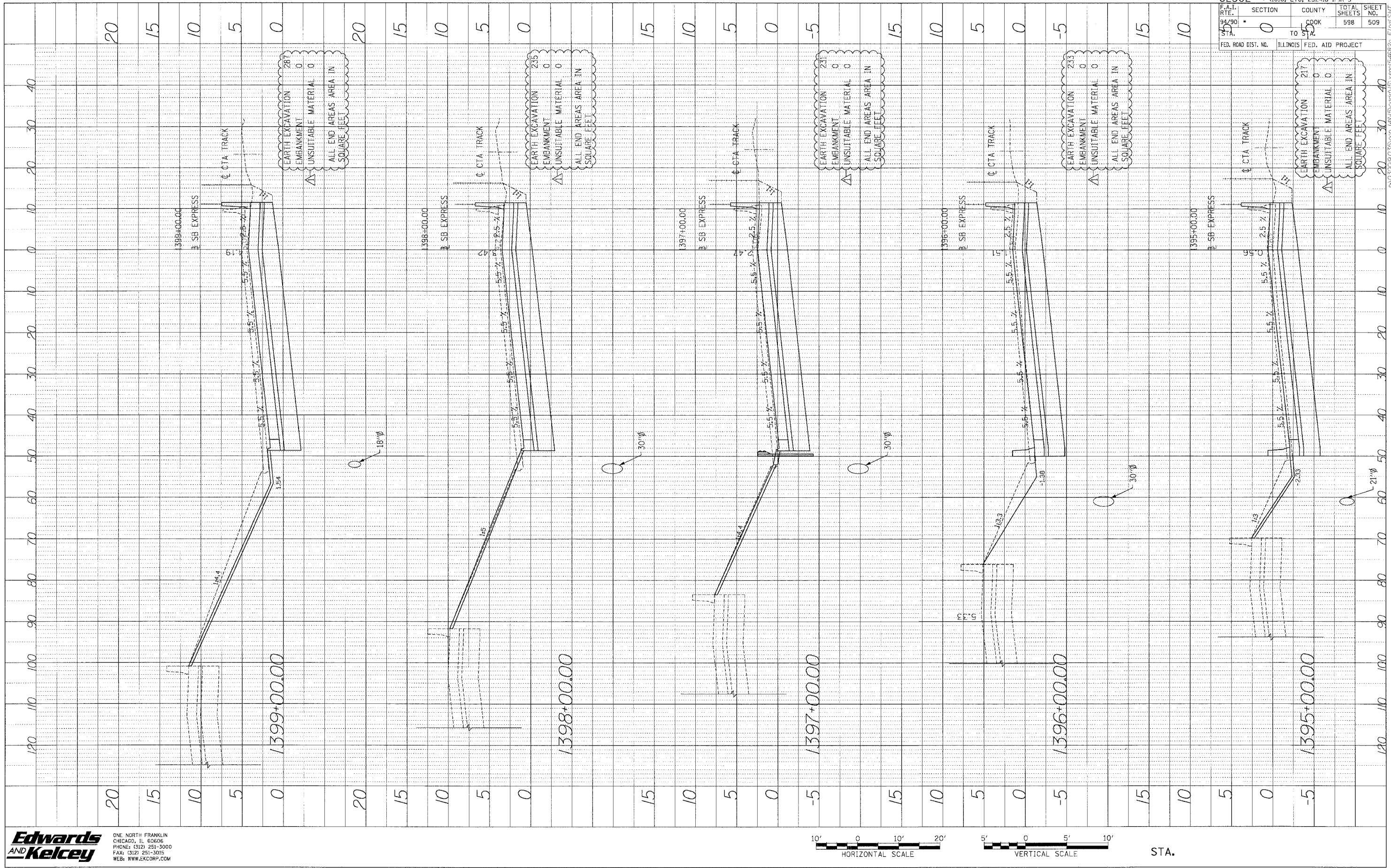
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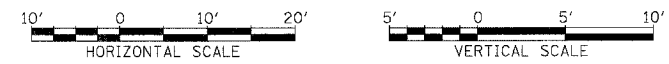
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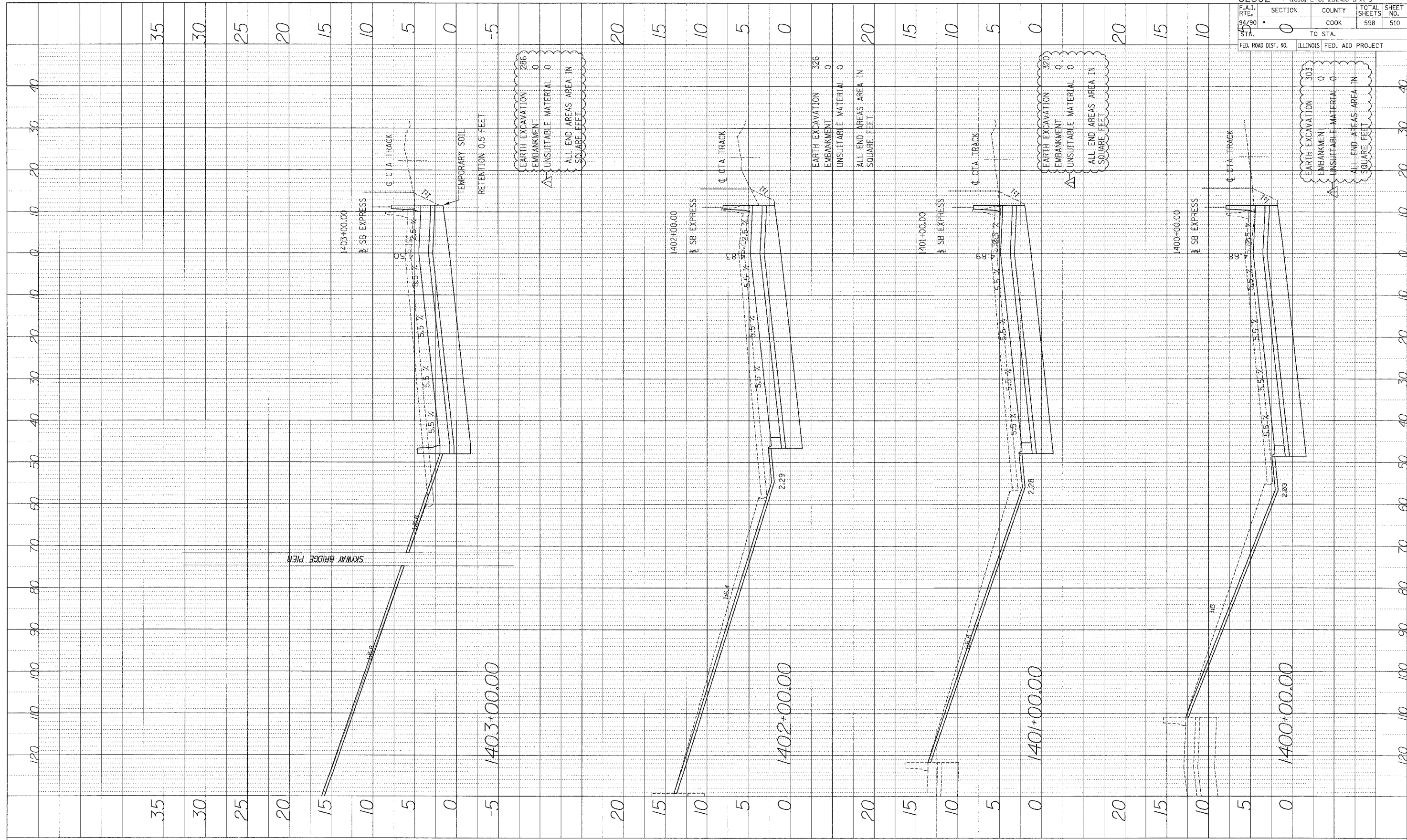
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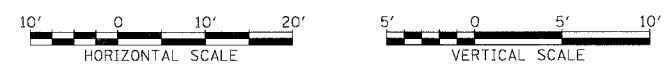
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62302 • 11818, ETC, 2324.6-1PIR-9	
F.A.I. RTE. 94/90	SECTION 0
COUNTY COOK	TOTAL SHEETS 598
TO STA.	SHEET NO. 510
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT

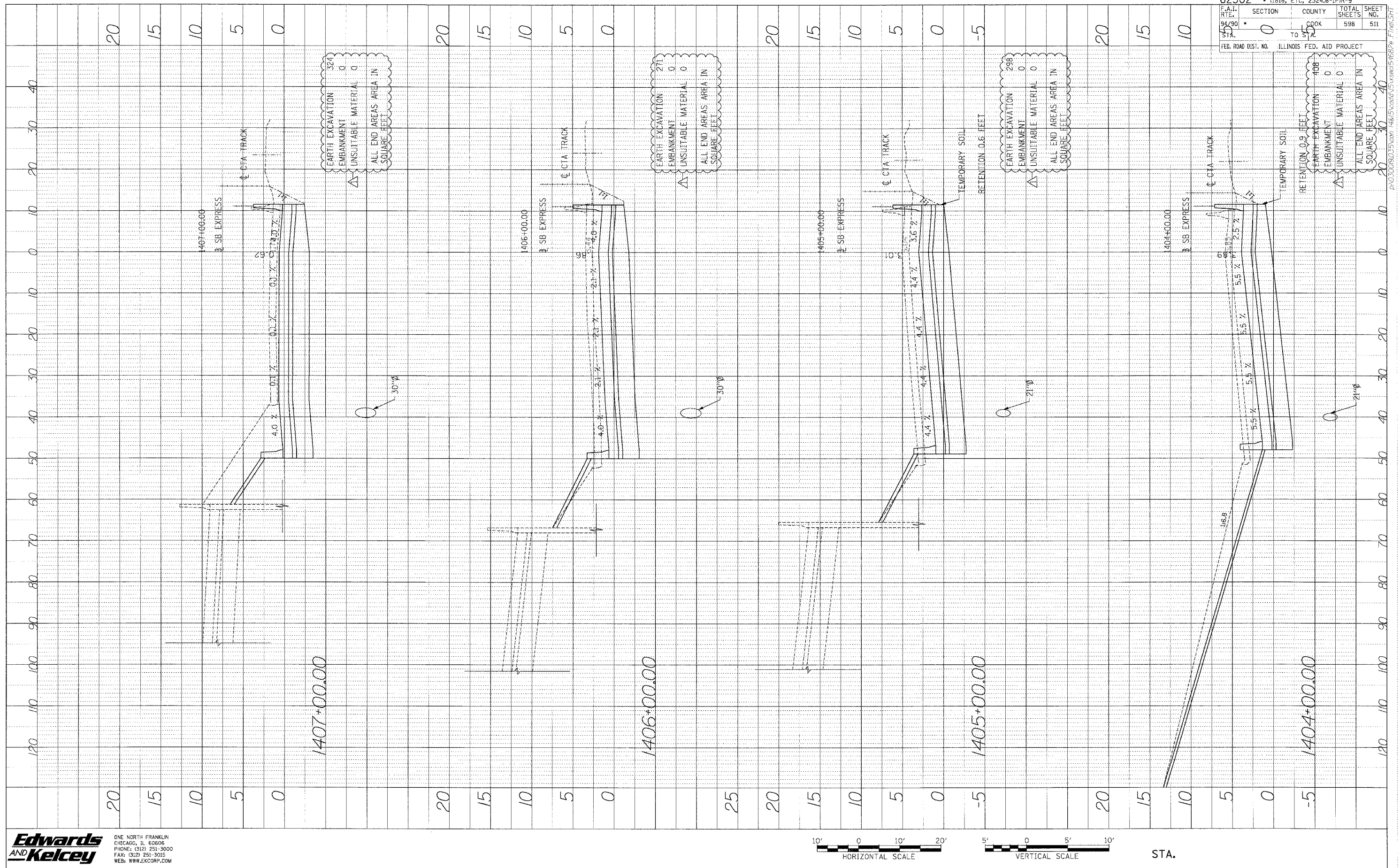
Edwards AND Kelcey
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 PHONE: (312) 251-3000
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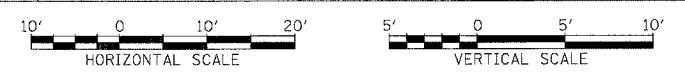
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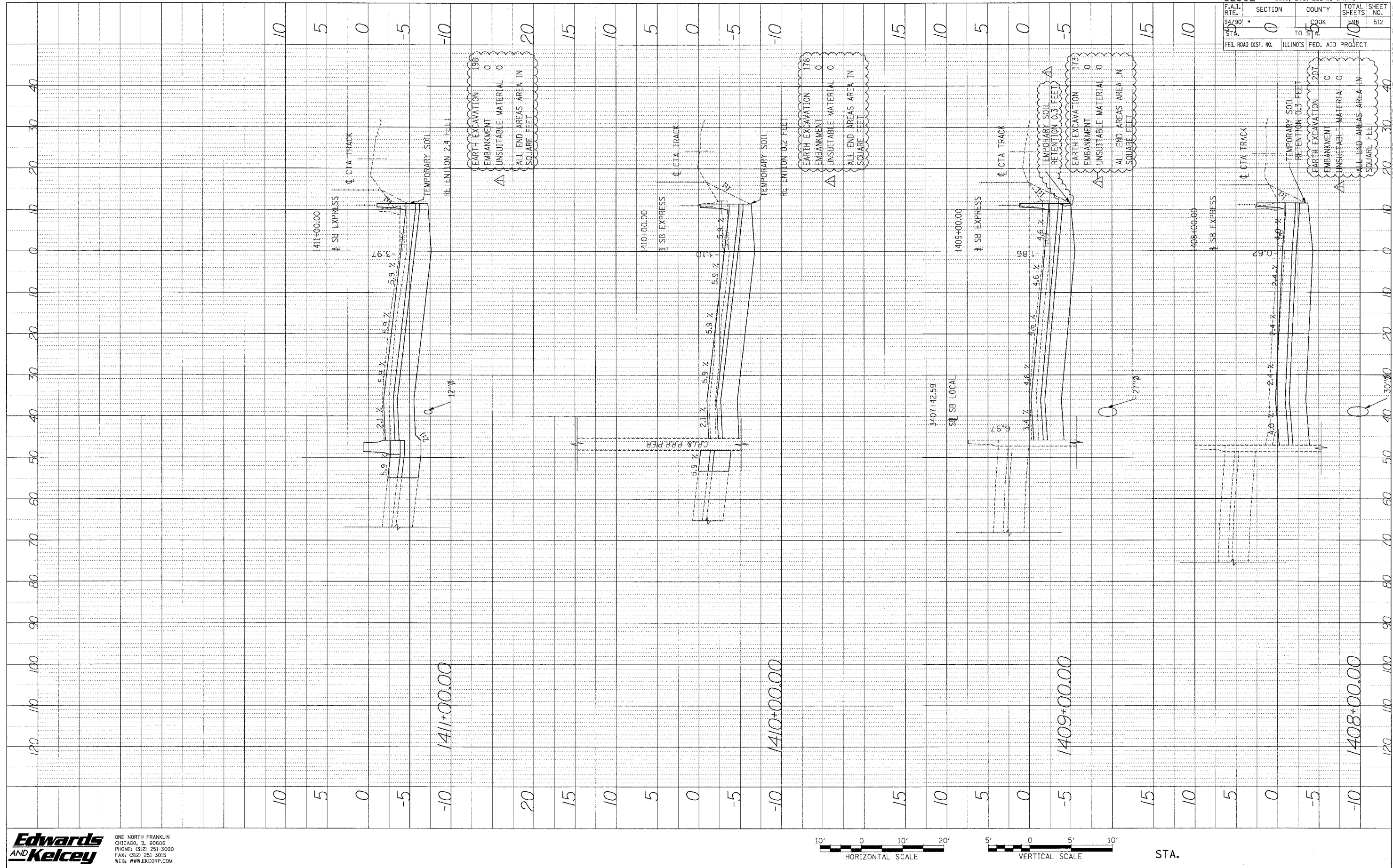
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TOTAL SHEETS 598	SHEET NO. 511

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 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS: CPFD



62302 • (1818, ETC, 2324.6-IPR-9)	
F.A.I. DIST. NO. 94/90	SECTION TO 512
ILLINOIS	FED. AID PROJECT

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AND Kelcey
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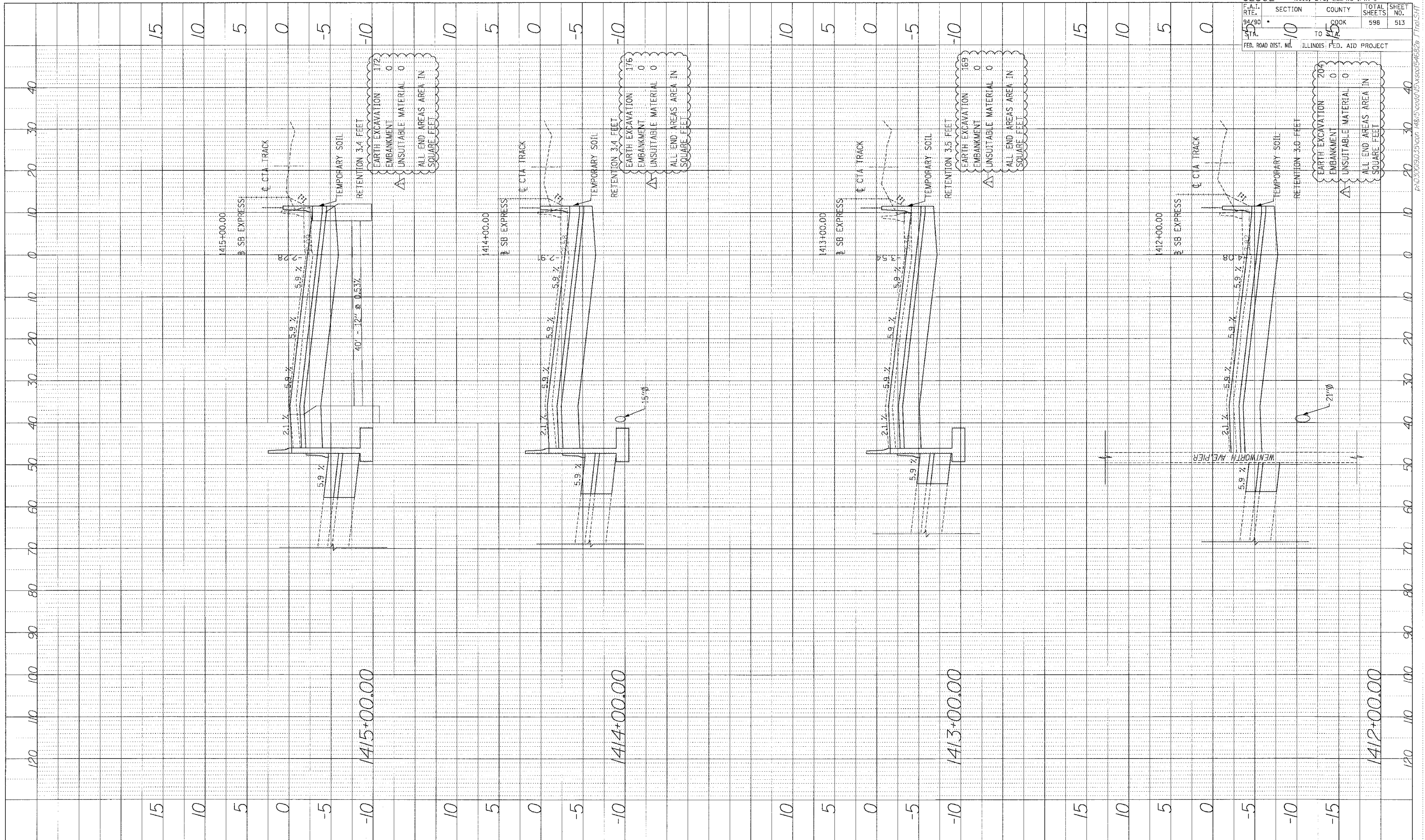


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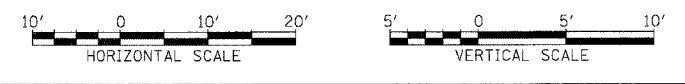
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PROFILE SHEETS
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 NOTE BOOK: _____
 STRUCTURE: NOTATIONS OFF

62302	• (1818, ETC, 2324.6-IPR-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	COOK	598	513
ILLINOIS FED. AID PROJECT			



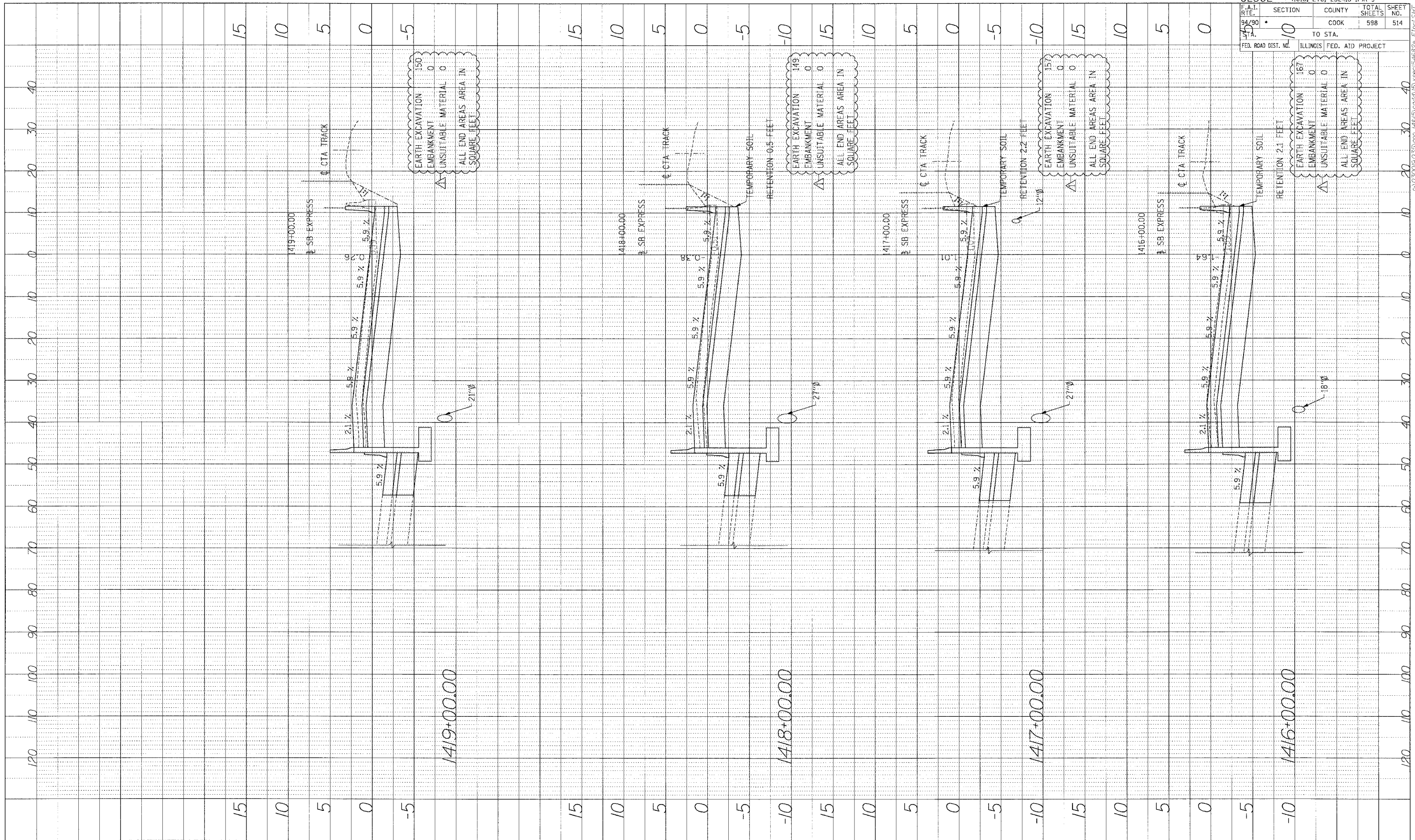
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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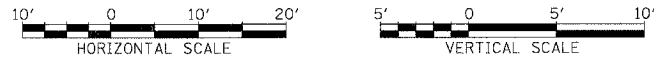
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PROFILE SURVEYER: _____ DATE: _____
 NOTE BOOK: _____
 NO.: _____



62302	• (1818, ETC, 2324.6-IPR-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	COOK	598	514
TO STA.			
ILLINOIS FED. AID PROJECT			

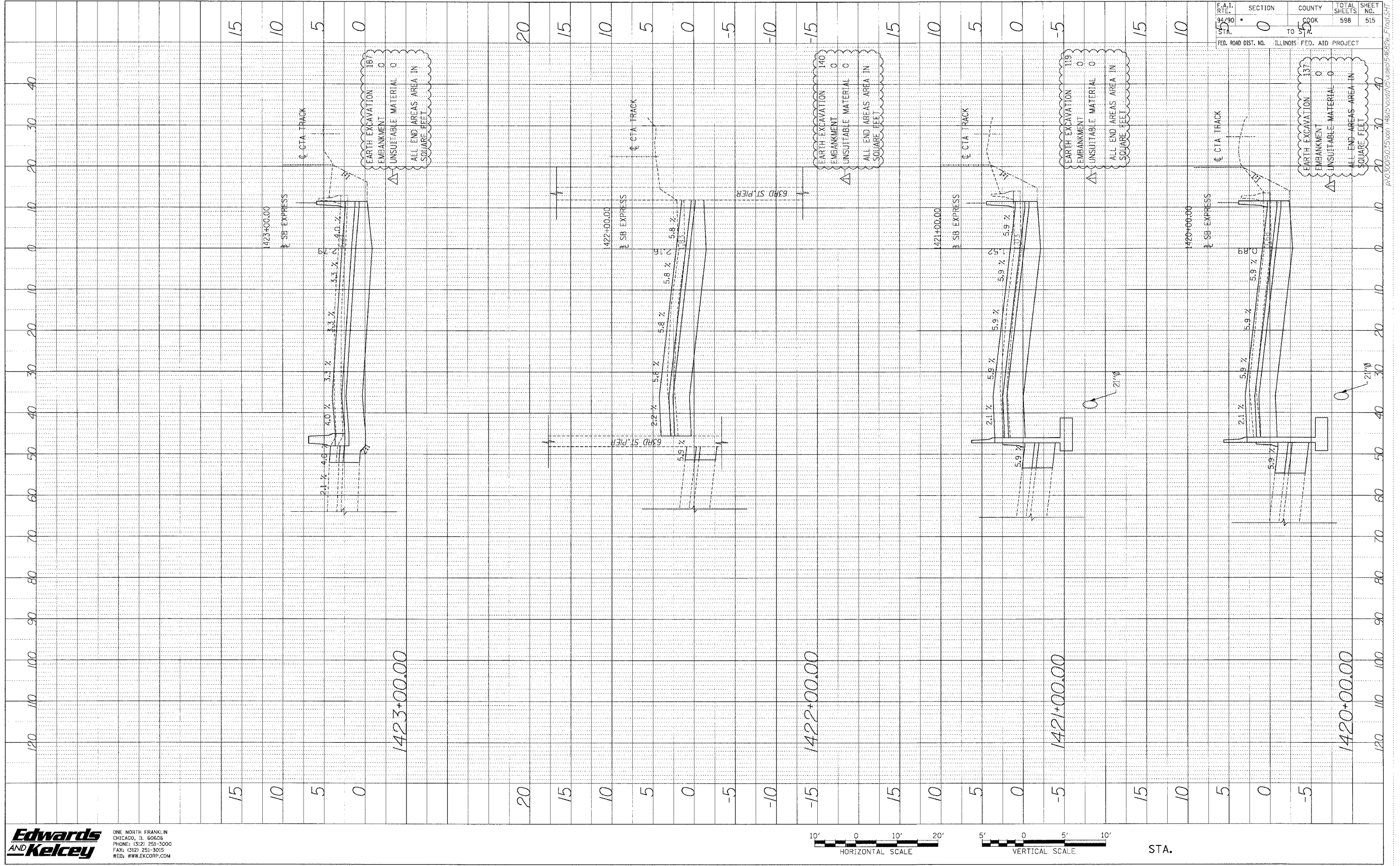
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PROFIT	BY	DATE
REVISIONS		
NOTE BOOK		
NO.		



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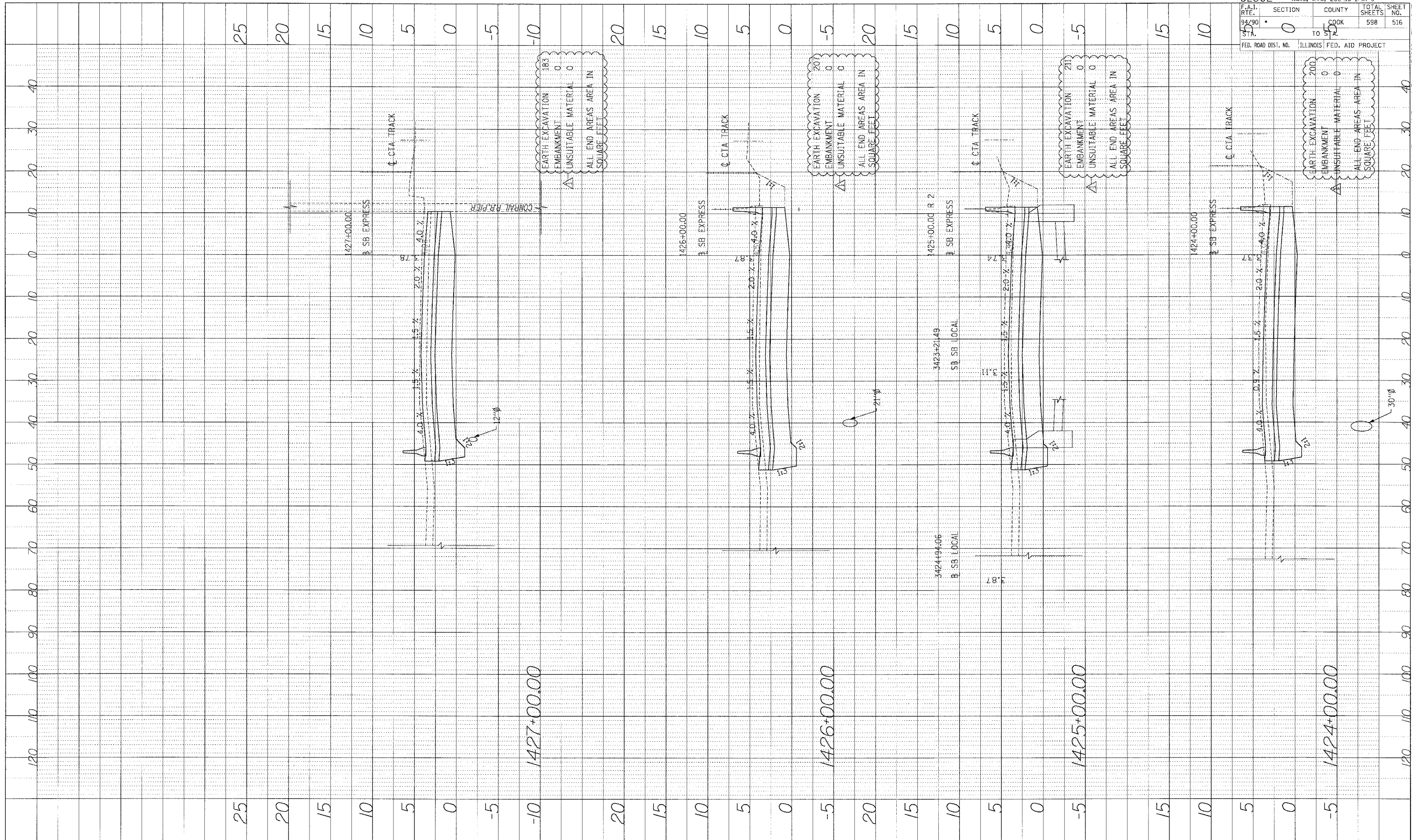
HORIZONTAL SCALE
 VERTICAL SCALE

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62302 • (1818, ETC, 2324.6-1PR-9
 SECTION COUNTY TOTAL SHEETS SHEET NO.
 COOK 598 515
 TO 512
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

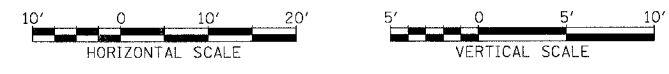
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 DRAWN BY: DATE:
 CHECKED BY: DATE:
 REVISIONS:
 NO. DESCRIPTION



62302 • (1818, ETC. 2324.6-1PR-9)	
F.A.I. R.T.E. 94/90	SECTION 0
COOK	COUNTY
TO 512	TOTAL SHEETS 598
ILLINOIS	SHEET NO. 516
FED. ROAD DIST. NO.	FED. AID PROJECT

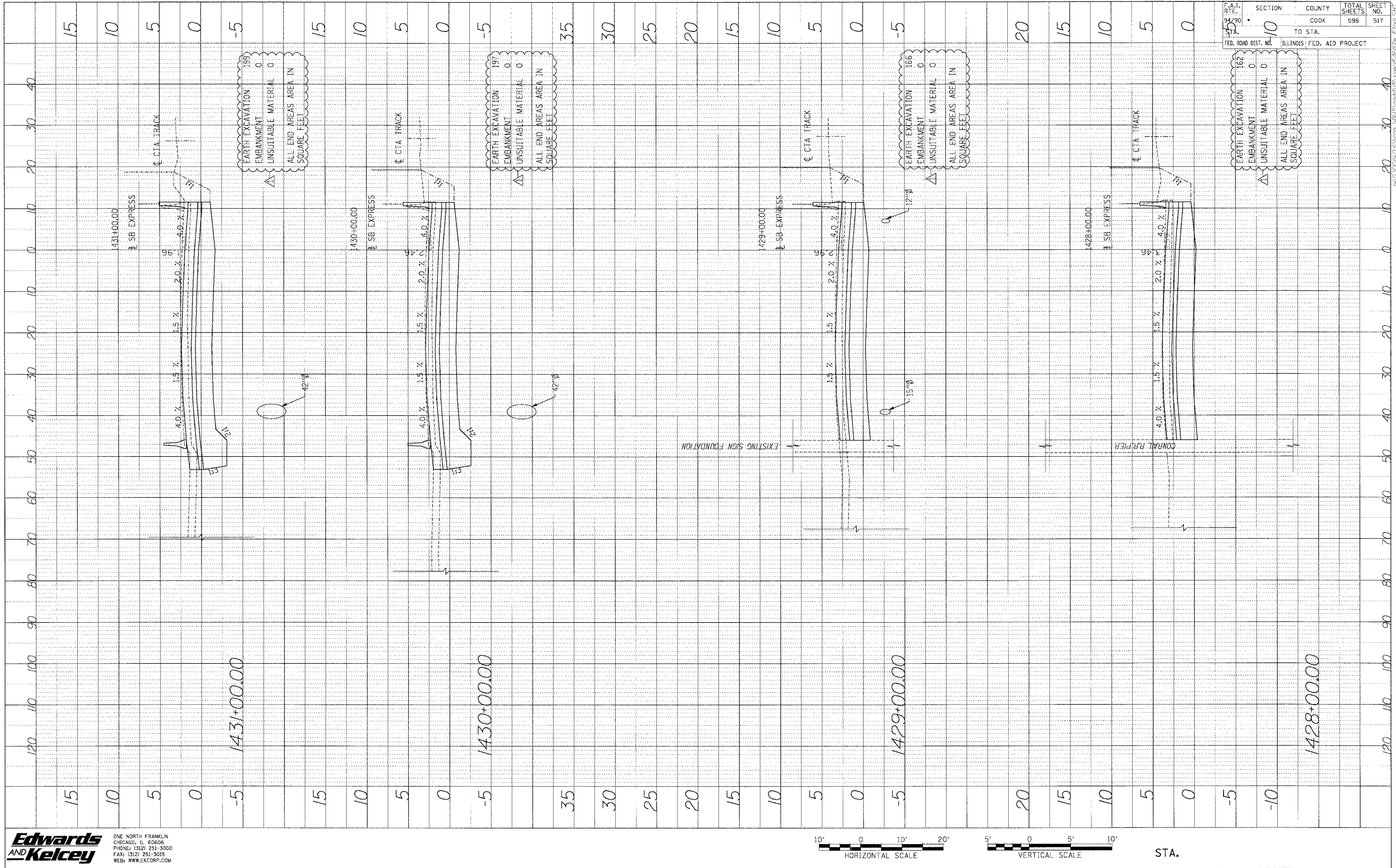
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
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 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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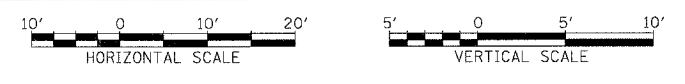
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NOTED	CHECKED		
NO.	NO.		



62302	11818, ETC, 2324.6-IPR-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	COOK	598	517
TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.		10	

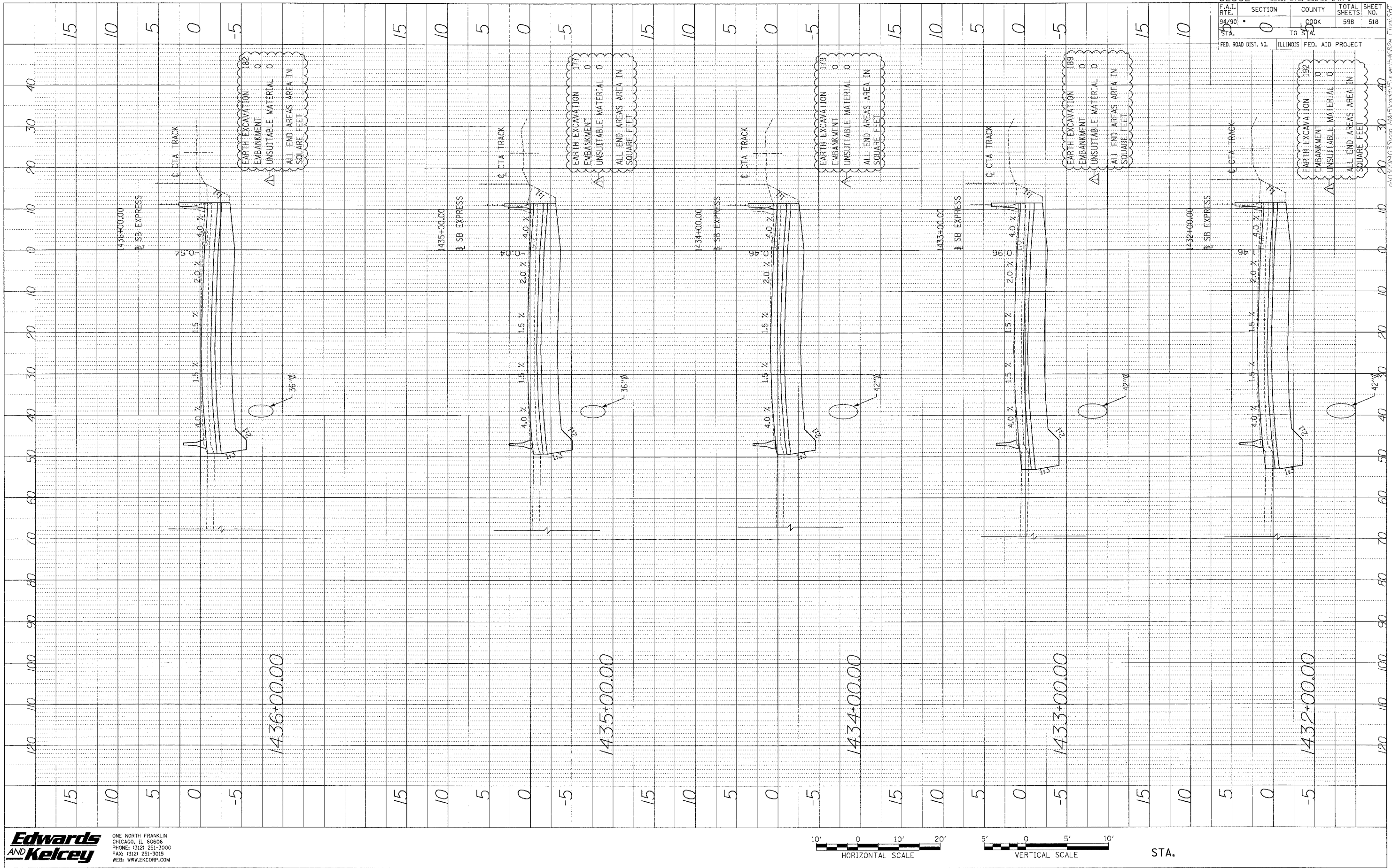
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 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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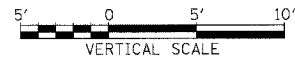
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PROFIT
 BY
 DATE
 NOTE BOOK
 NO. 1
 DRAWING NO. 1
 PROJECT NAME



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	0	COOK	598	518
DATA	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

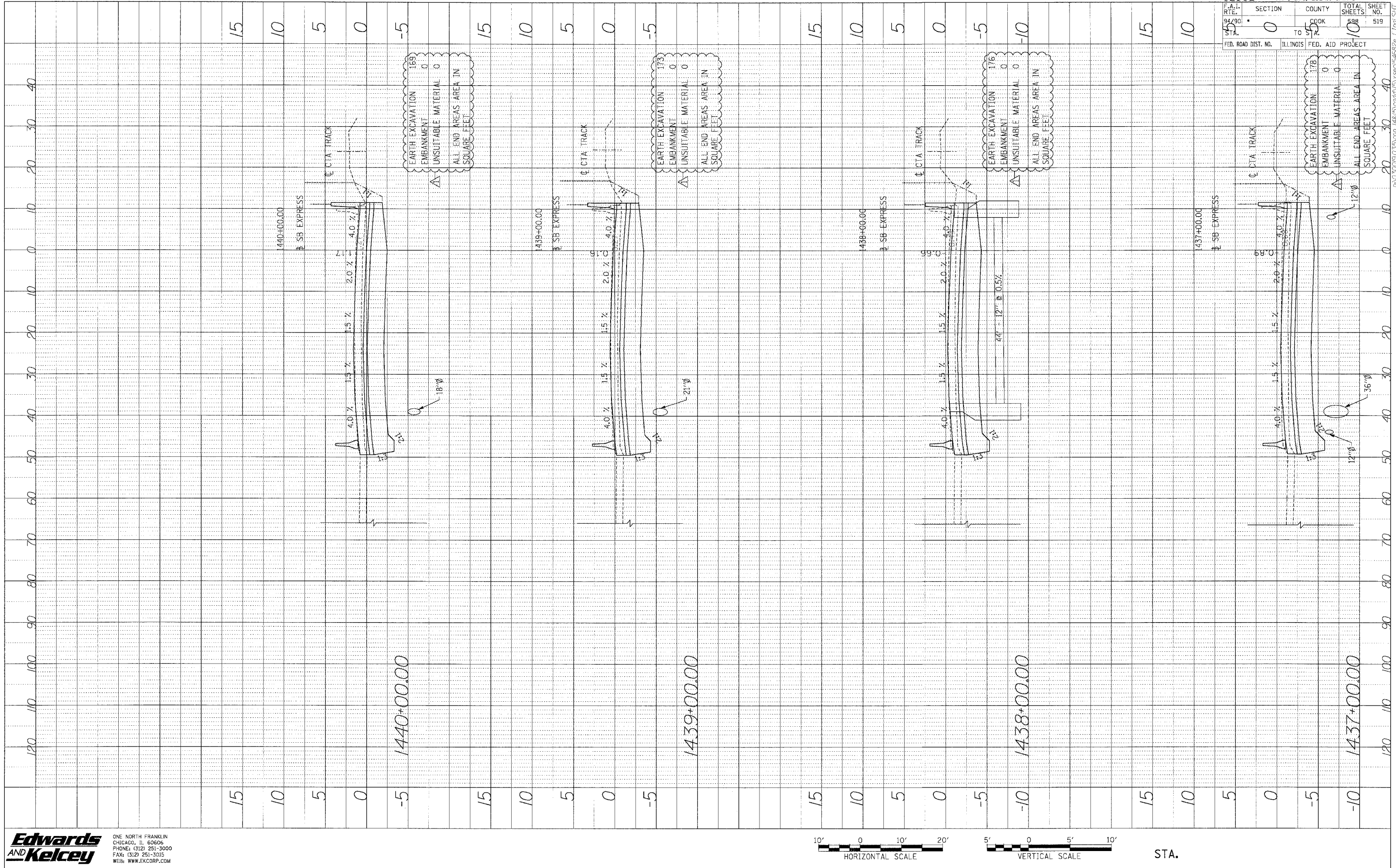
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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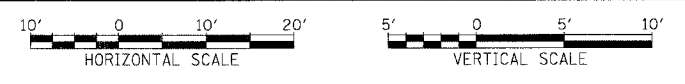
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PROFILE SHEET
 DRAWING NO. _____ DATE _____
 BY _____
 CHECKED _____
 DATE _____
 STRUCTURE NO. _____



62302 • GB18, ETC. 2324.6-1PR-9	
F.A.I. DIST. NO. 99/90	SECTION 0
COUNTY COOK	TOTAL SHEETS 10
TO 92	SHEET NO. 519
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT

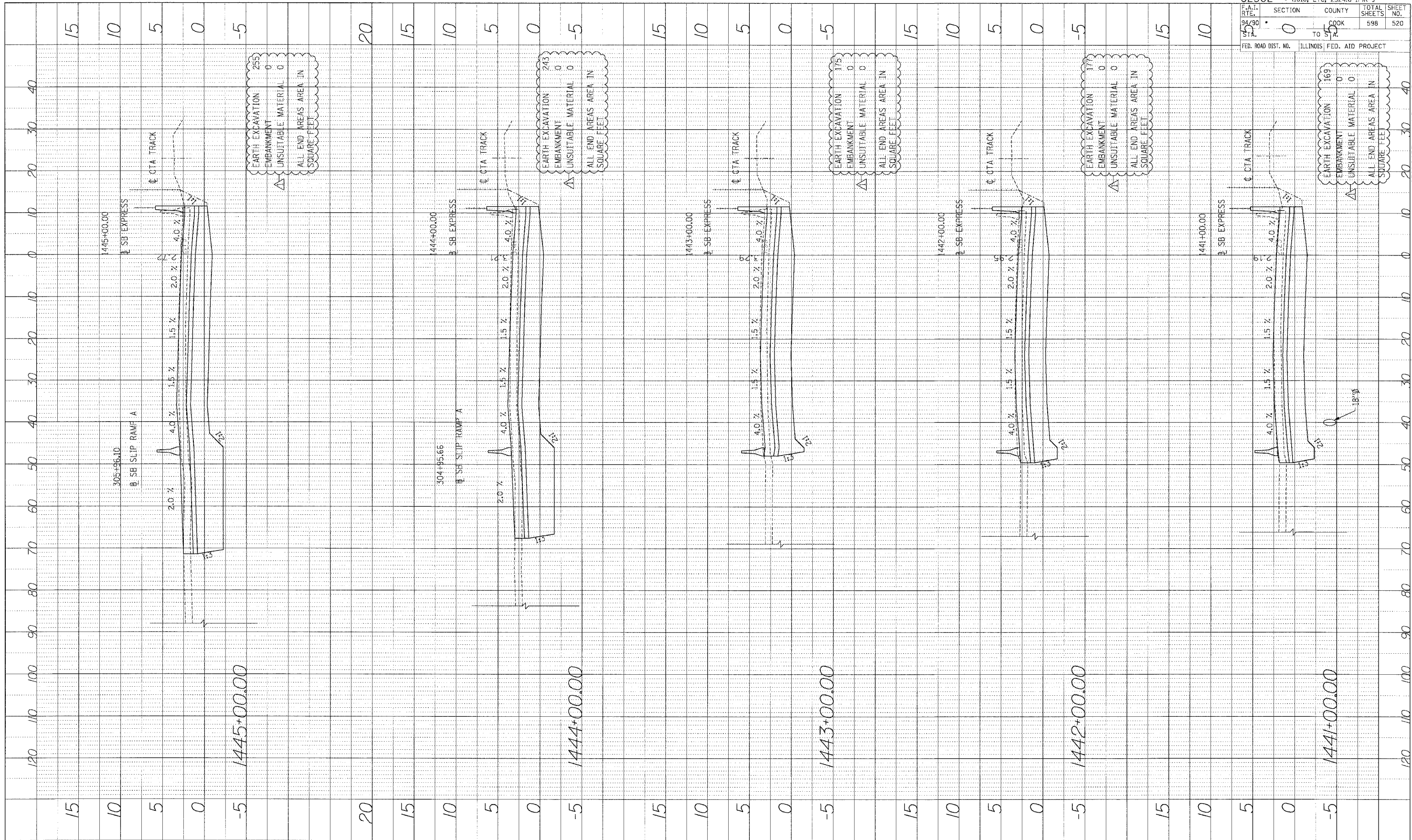
Edwards and Kelcey
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 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



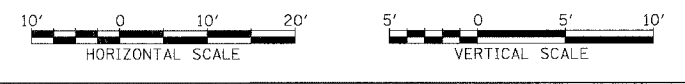
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 FAX: (312) 251-3015
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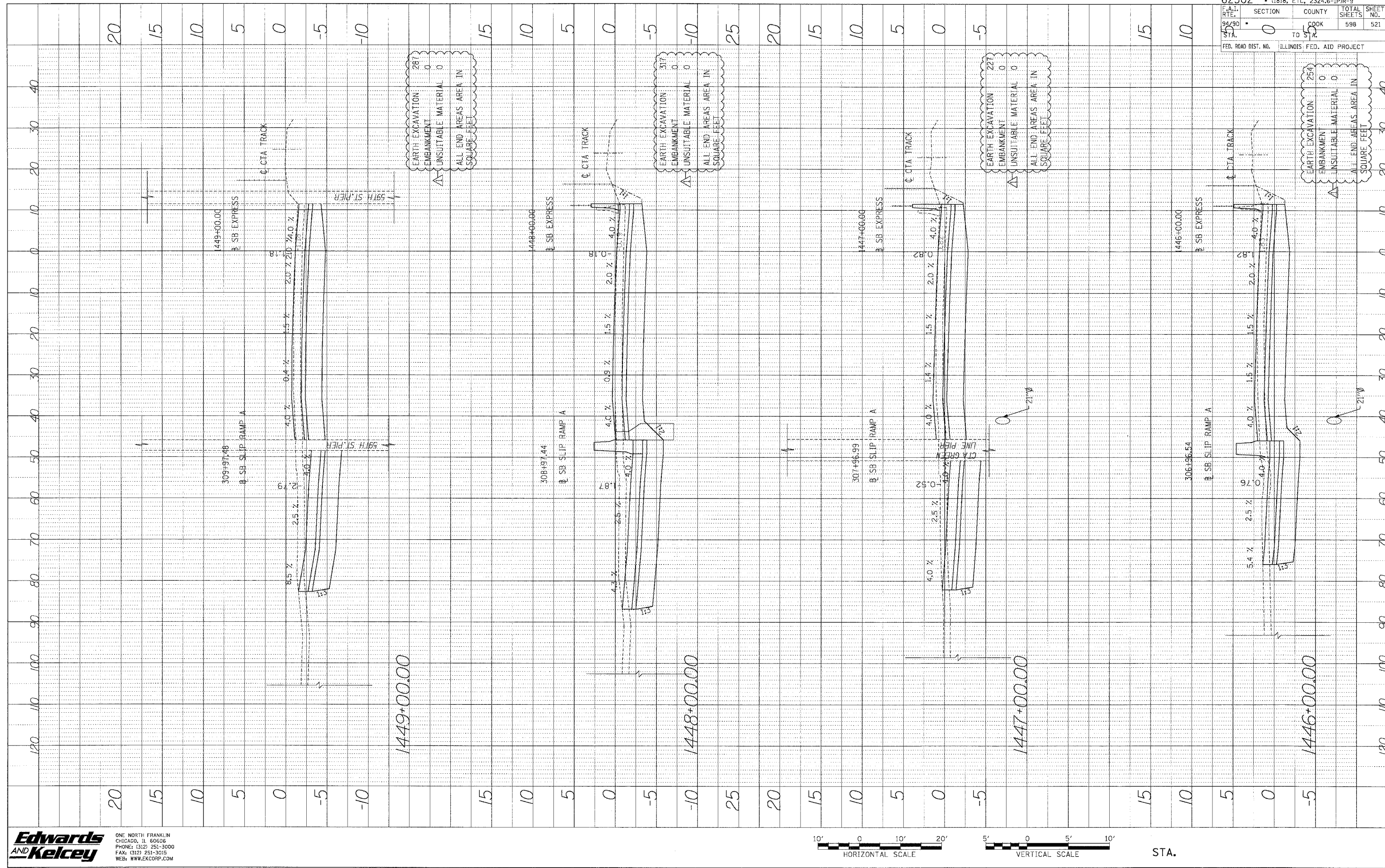


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62302	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	0	COOK	598	520
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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PROFILE SURVEYED BY DATE
 DRAWN BY
 CHECKED BY
 NOTE BOOK NO. NOTES CHECKED
 STRUCTURE NOTATIONS ON/OF



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 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

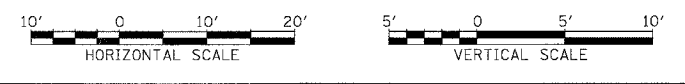
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 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
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EARTH EXCAVATION 227
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

EARTH EXCAVATION 254
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

62302 • (1818, ETC., 2324.6-IPR-9		TOTAL SHEETS	SHEET NO.
ROUTE	SECTION	COUNTY	598 521
94/90	0	COOK	
STA.	TO	ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			

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AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60636
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 FAX: (312) 251-3015
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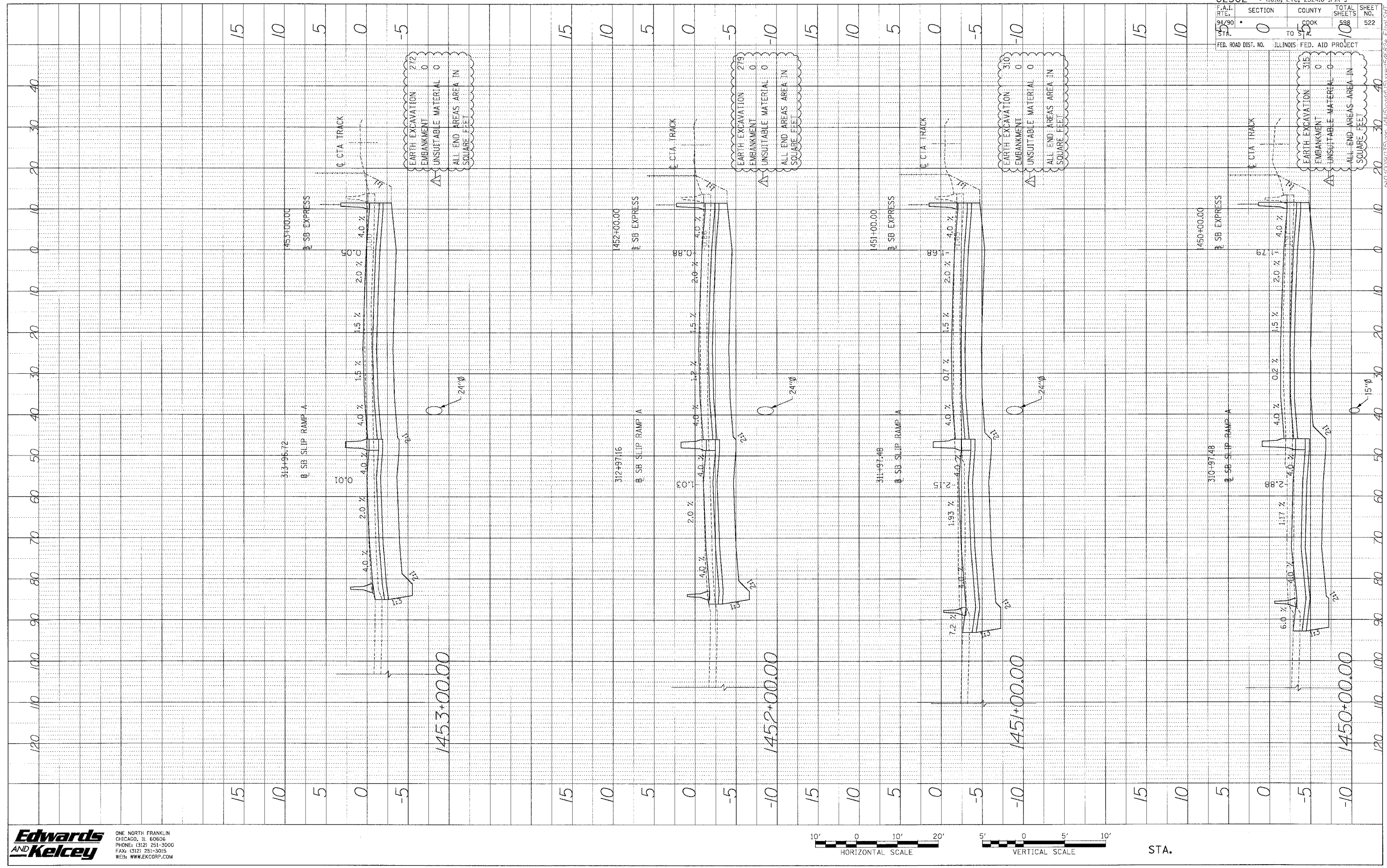


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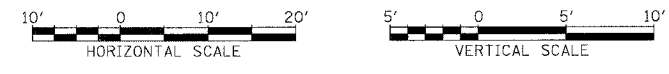
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 (ALL NOTED) (NOTATION) (GRID)
 (NO. OF) (SHEET) (SHEETS) (PROJECT)

F.A.I. FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/80	0	COOK	98	522
F.A.I. NO.	TO	FROM		
	10	10		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



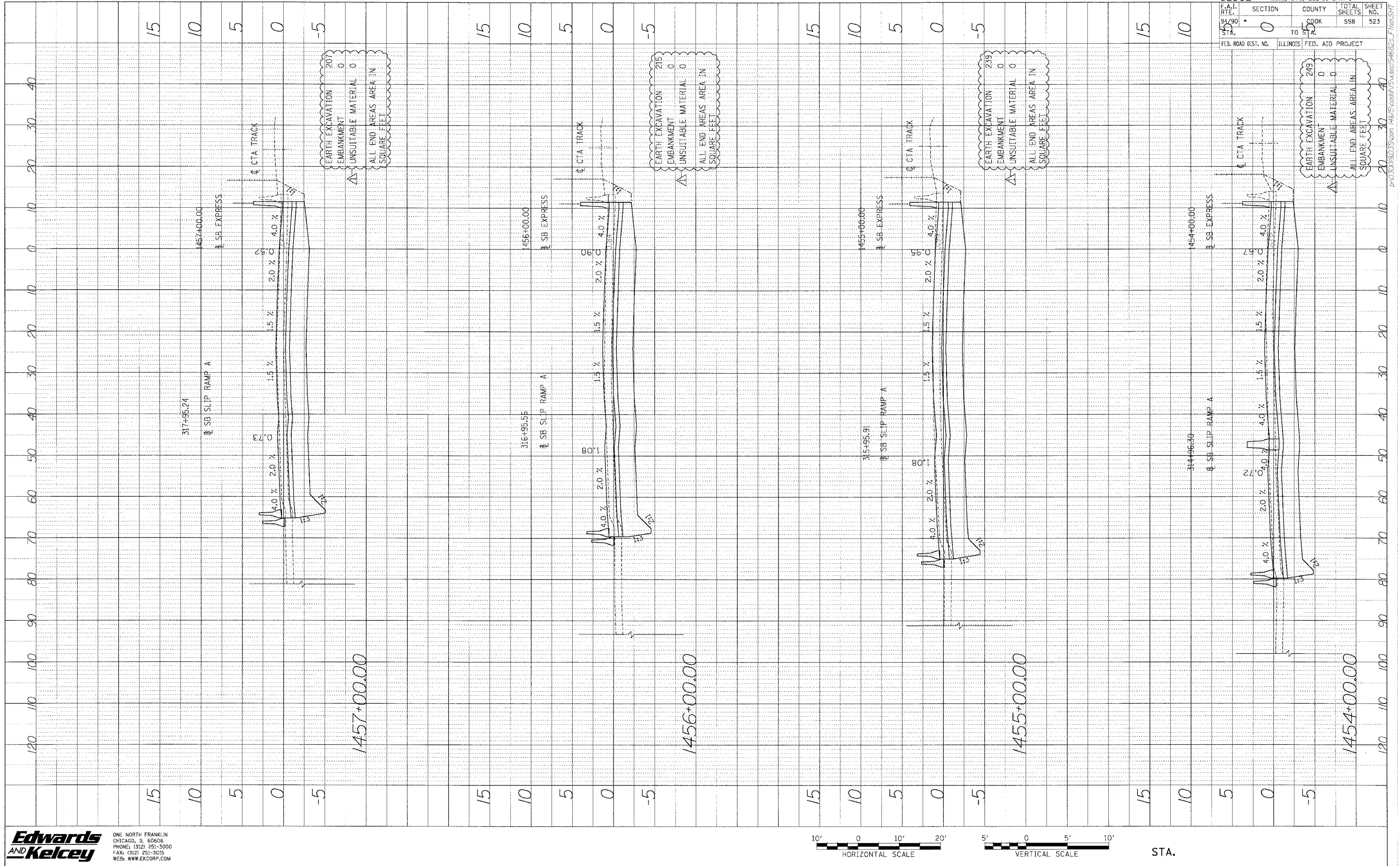
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 PHONE: (312) 251-3000 FAX: (312) 251-3015 WEB: WWW.EKCORP.COM



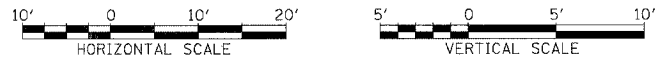
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PROFILE SURVEYED BY DATE
 NOTE BOOK NO. CHECKED BY
 STRUCTURE NOTATION GRID



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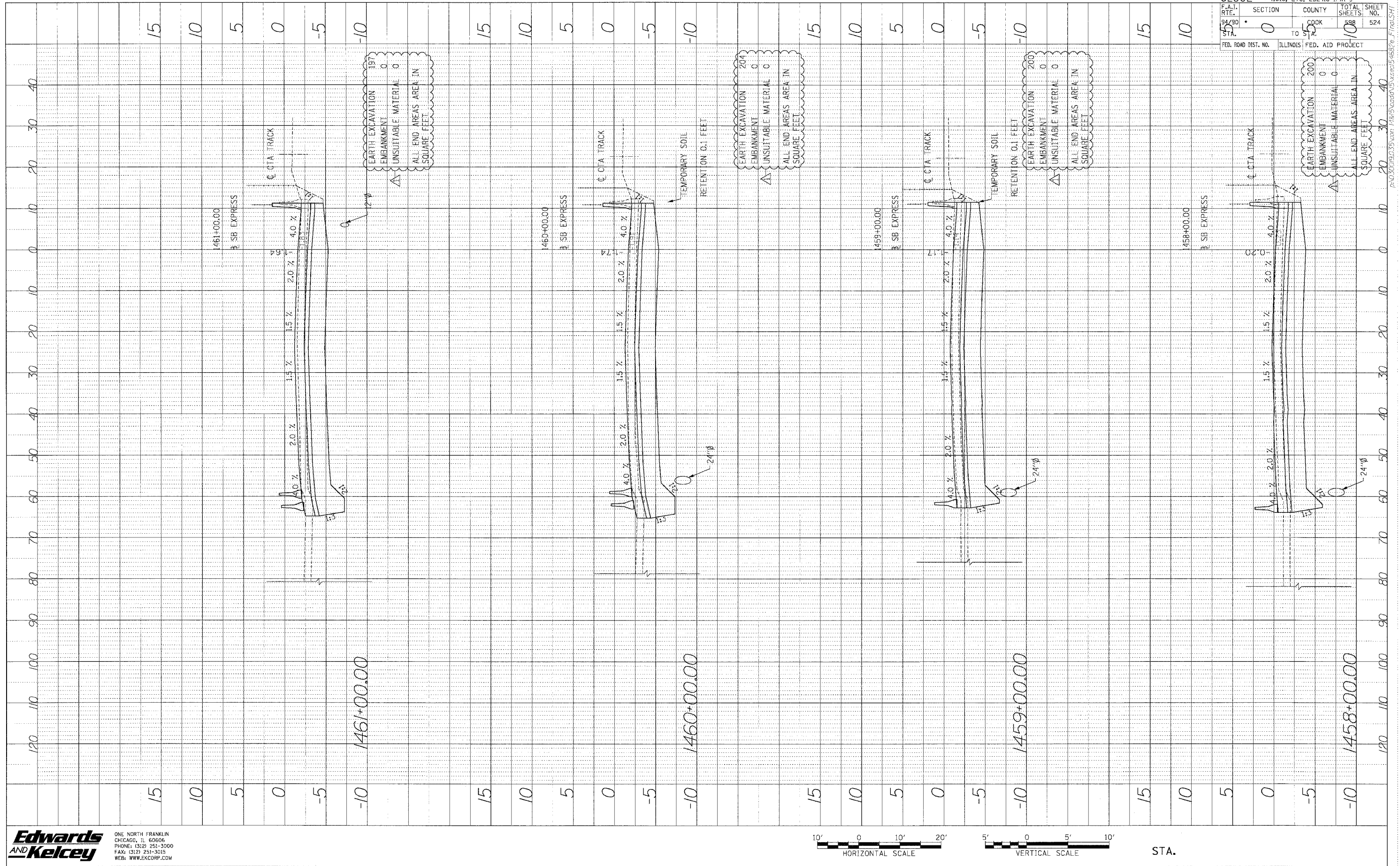


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62302 • (1818, ETC., 2324.6-1PR-9	
F.A.I. R.T.E. 99/90	SECTION 0
TO 512	COUNTY COOK
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
TOTAL SHEETS 598	SHEET NO. 523

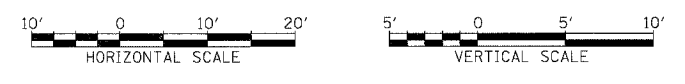
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 NOTE BOOK
 NO. NOTED
 STRUCTURE NOTATION OFFNO



62302	(1818, ETC, 2324.6-1PR-9
F.A.I. DIST. NO. 99-80	SECTION 0
STA. 10	COUNTY COOK
	TOTAL SHEETS 524
	SHEET NO. 10
	FED. ROAD DIST. NO. ILLINOIS
	FED. AID PROJECT

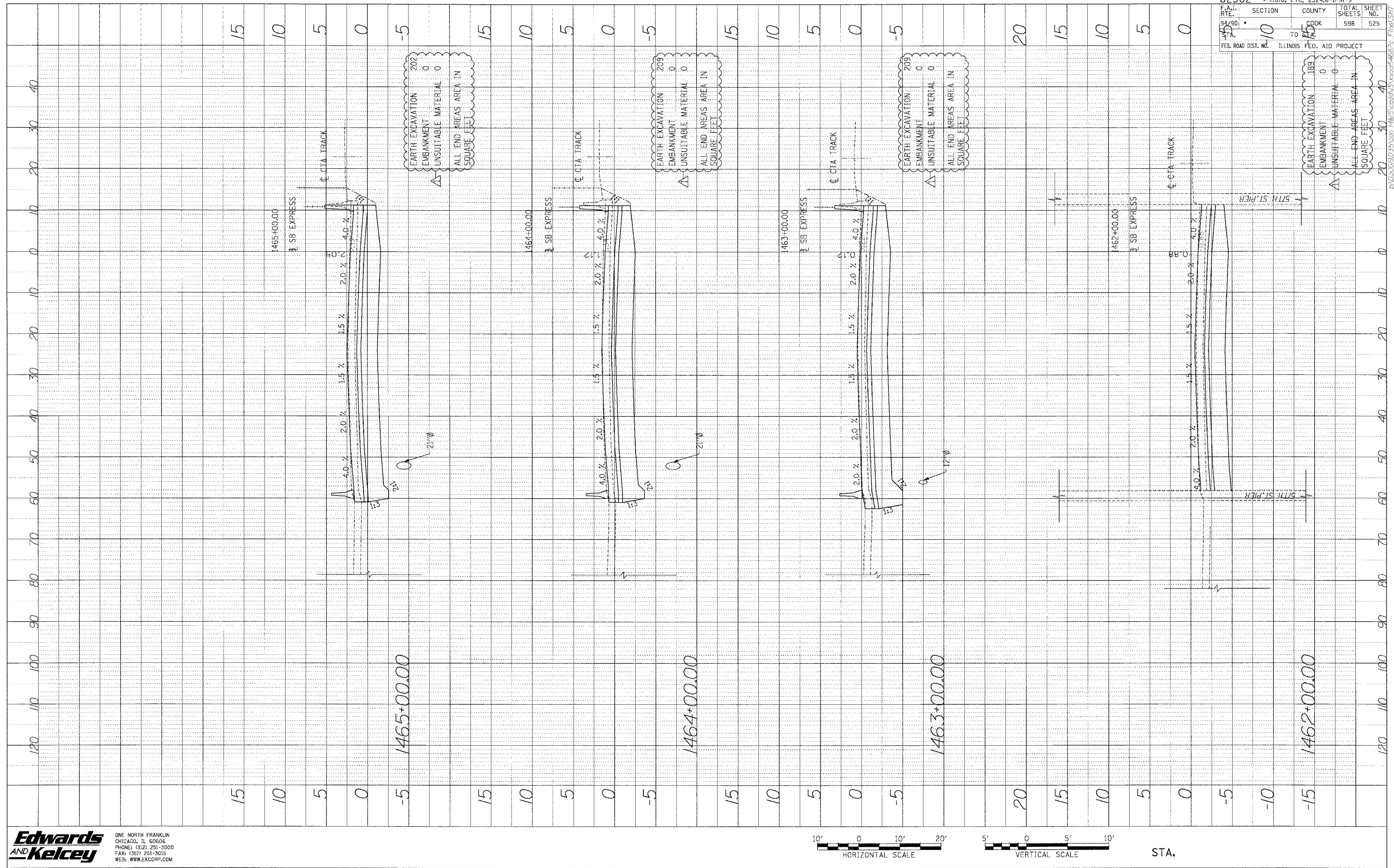
Edwards AND Kelcey
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 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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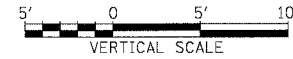
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PROFILE SHEETS
 NOT TO BE USED FOR CONSTRUCTION
 DATE



62302 • (1818, ETC, 2324.6-IPR-9		TOTAL SHEETS	SHEET NO.
ROUTE	SECTION	COUNTY	598
94/90	10	COOK	525
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

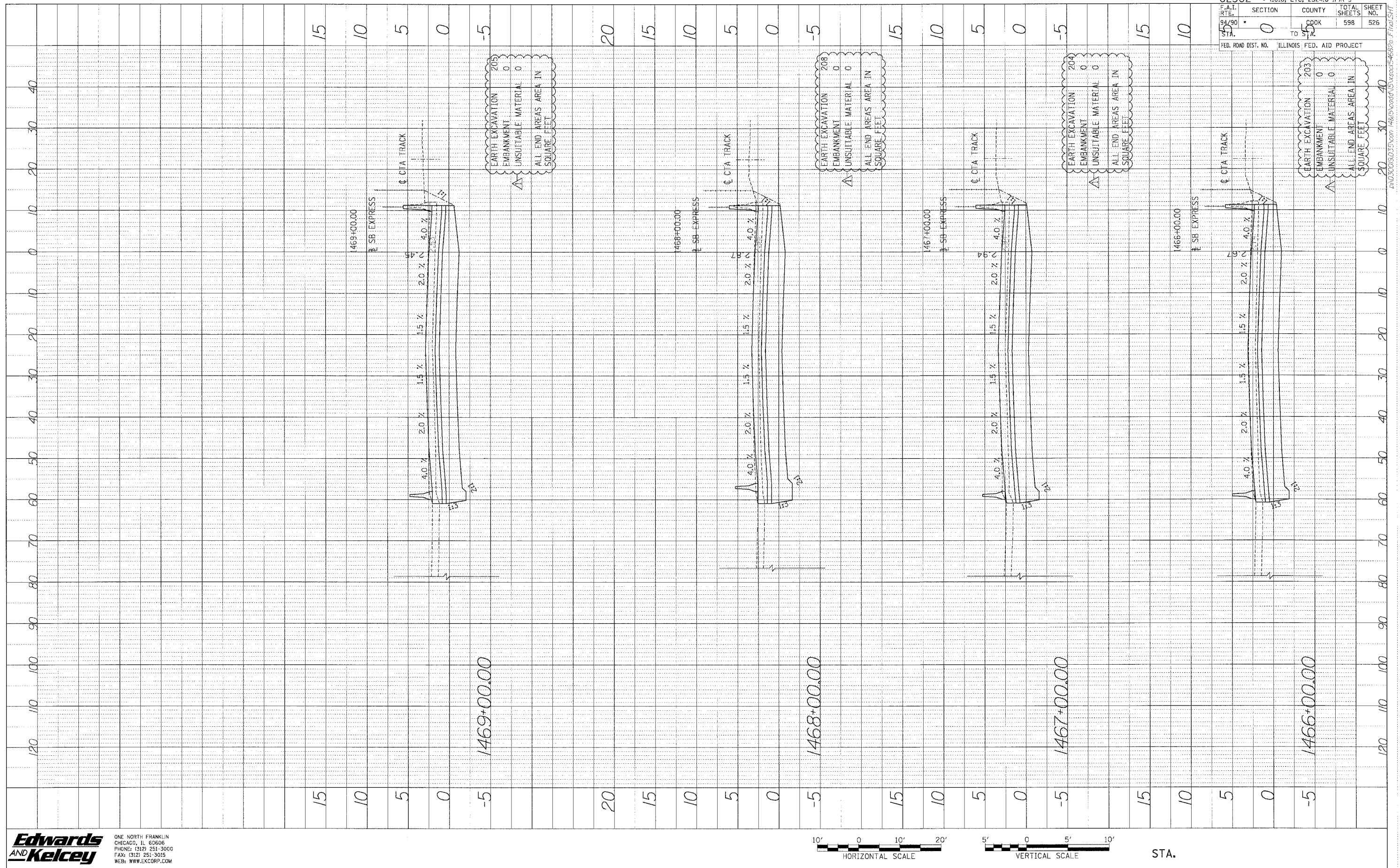
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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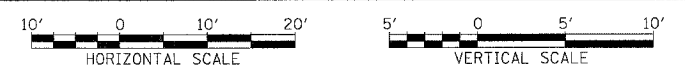
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 NOTE BOOK
 STRUCTURE NO. DATE SURV.
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62302	1818, ETC, 2324.6-1P1R-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	COOK	598	526
STA.	TO STA.	ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

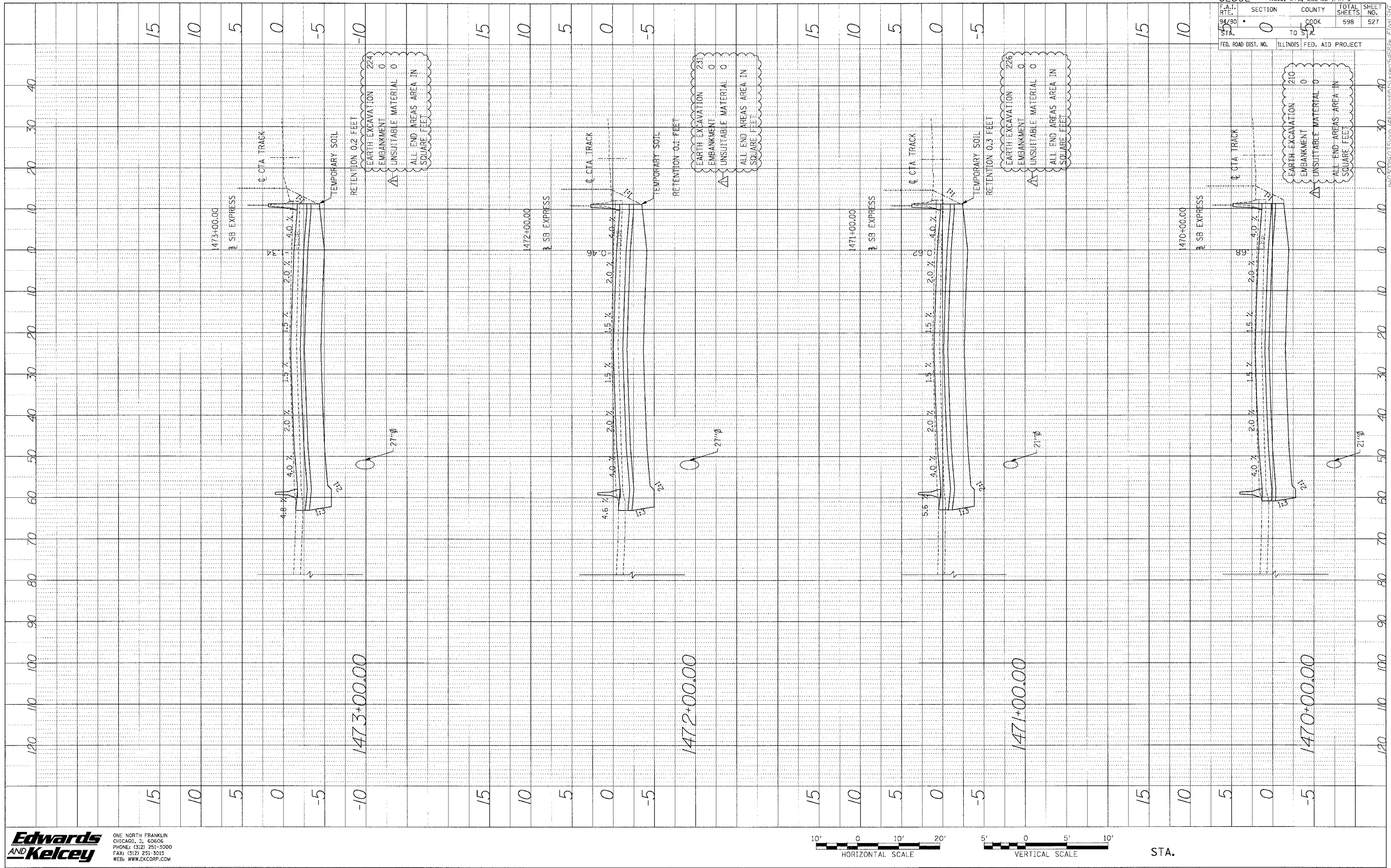
Edwards AND Kelcey
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 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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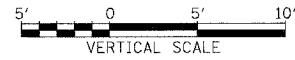
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 CHECKED BY: []
 DATE: []
 NO. []



62302 • (1818, ETC, 2324.6-1PR-9	
F.A.I. SECTION	COUNTY TOTAL SHEETS
94/30 0	COOK 598
STA. TO STA.	SHEET NO. 527
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

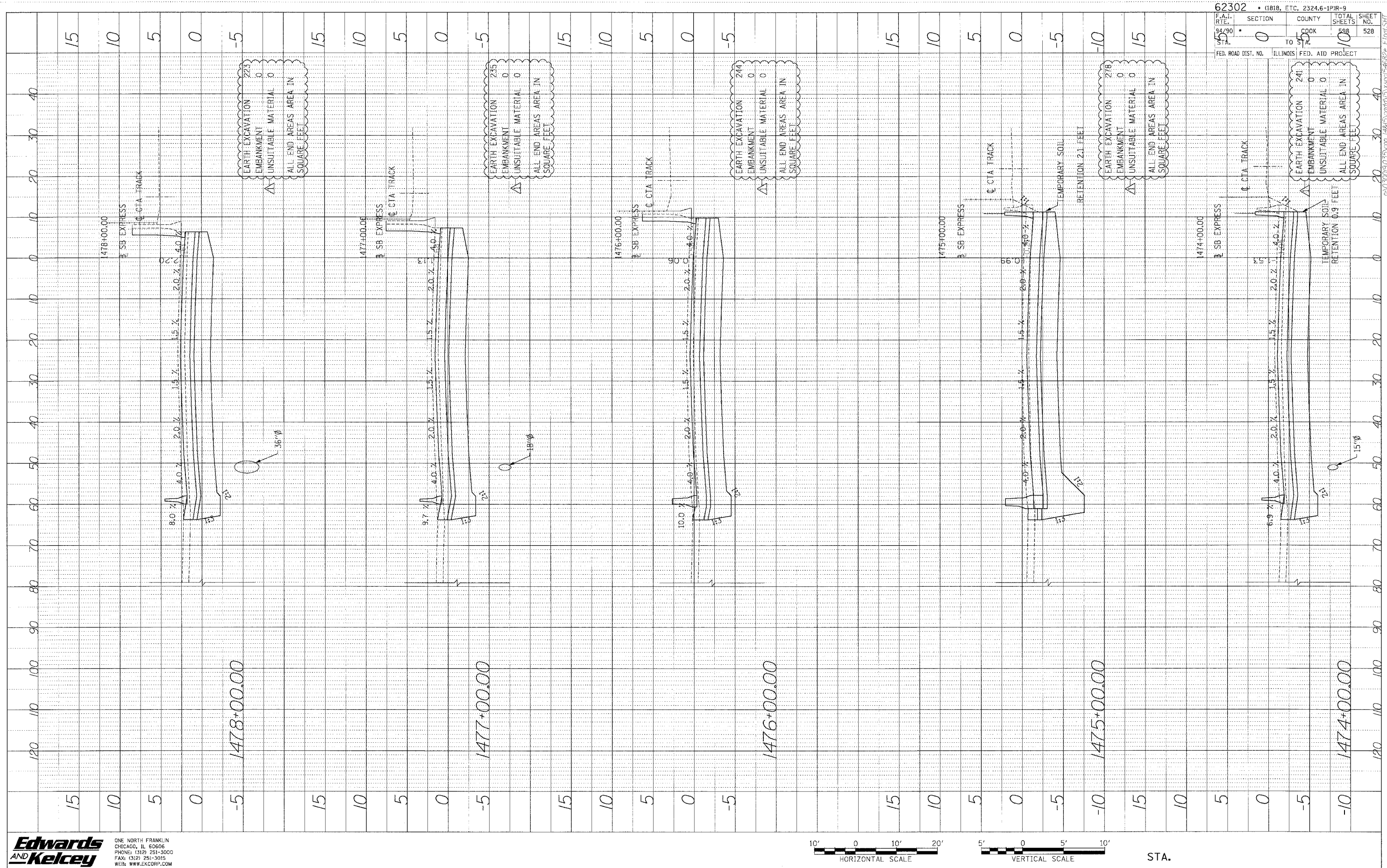
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 CHICAGO, IL 60606
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 FAX: (312) 251-3015
 WEB: WWW.EDKORP.COM



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PROFILE SURVEYED BY DATE
 NO. L. BOOK DRAWN BY CHECKED
 REAM. NOTED BY ADJUSTED OFFD
 NO. STATIONING DATE



EARTH EXCAVATION 223
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

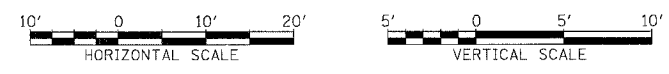
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 ALL END AREAS AREA IN SQUARE FEET

EARTH EXCAVATION 218
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

EARTH EXCAVATION 241
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

Edwards AND Kelcey
 ONE NORTH FRANKLIN CHICAGO, IL 60606
 PHONE: (312) 251-3000 FAX: (312) 251-3015
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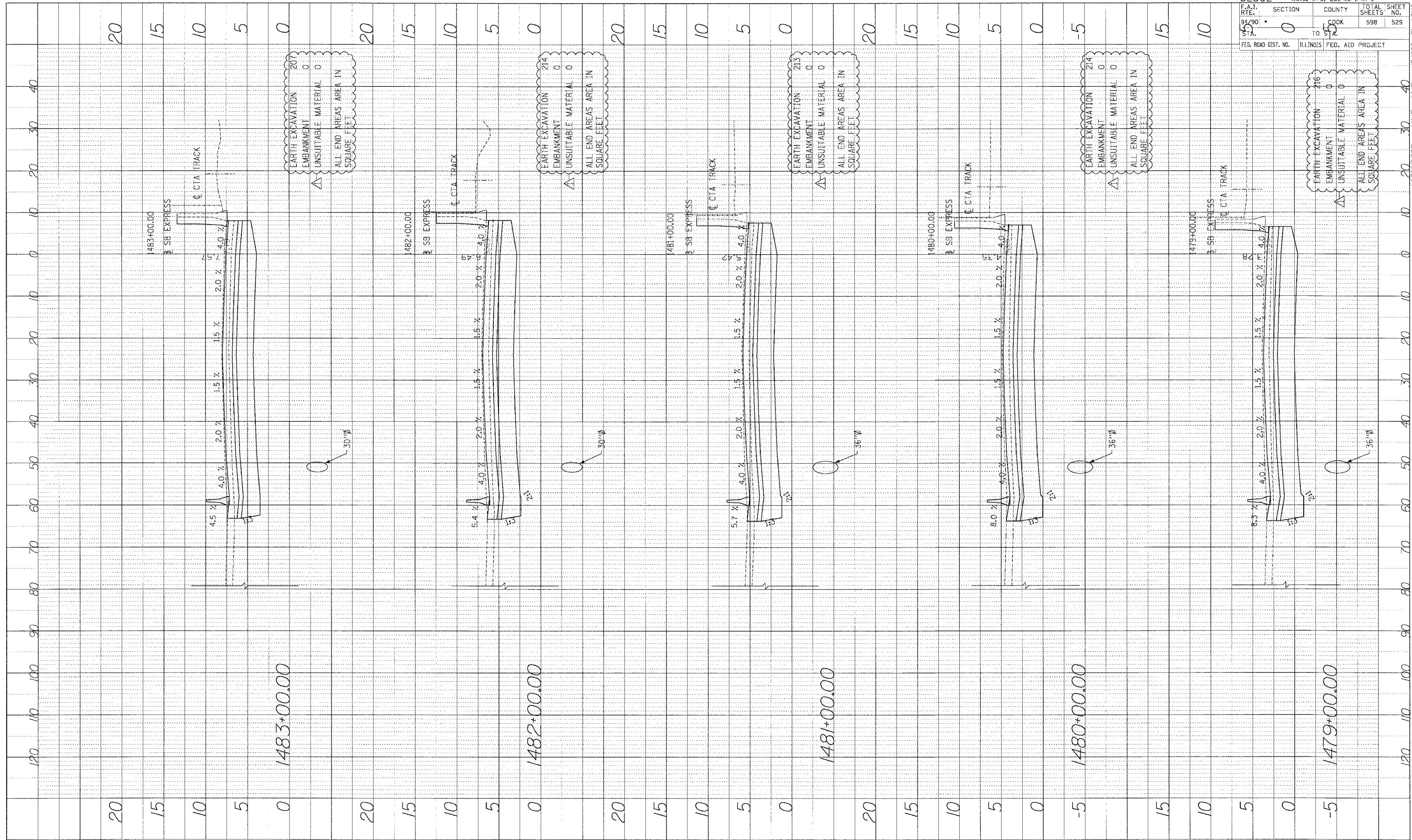


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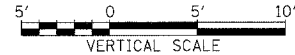
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F.A.I. R.F.E. STA. 94/90	SECTION 0
	COUNTY COOK
	ILLINOIS
	FED. AID PROJECT
	TOTAL SHEETS 598
	SHEET NO. 528

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 DATE CHECKED BY
 NOTE BOOK NO. CHECKED BY
 STRUCTURE NO. ROTARY CHRG.



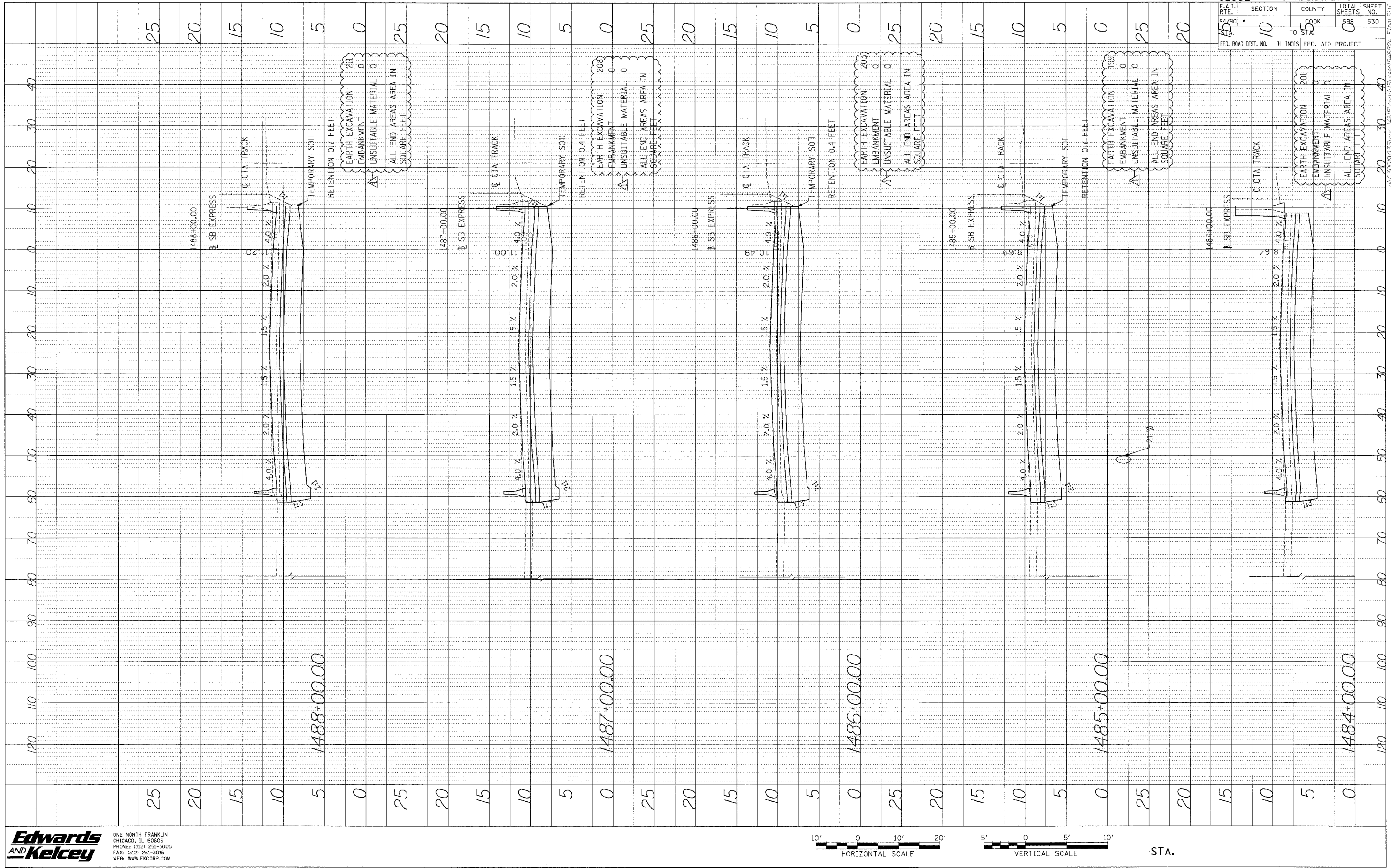
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 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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DRAWN BY: _____ DATE: _____
 CHECKED BY: _____
 DESIGNED BY: _____
 IN CHARGE BY: _____
 PROJECT NO.: _____
 SHEET NO.: _____



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 ONE NORTH FRANKLIN CHICAGO, IL 60606
 PHONE: (312) 251-3000
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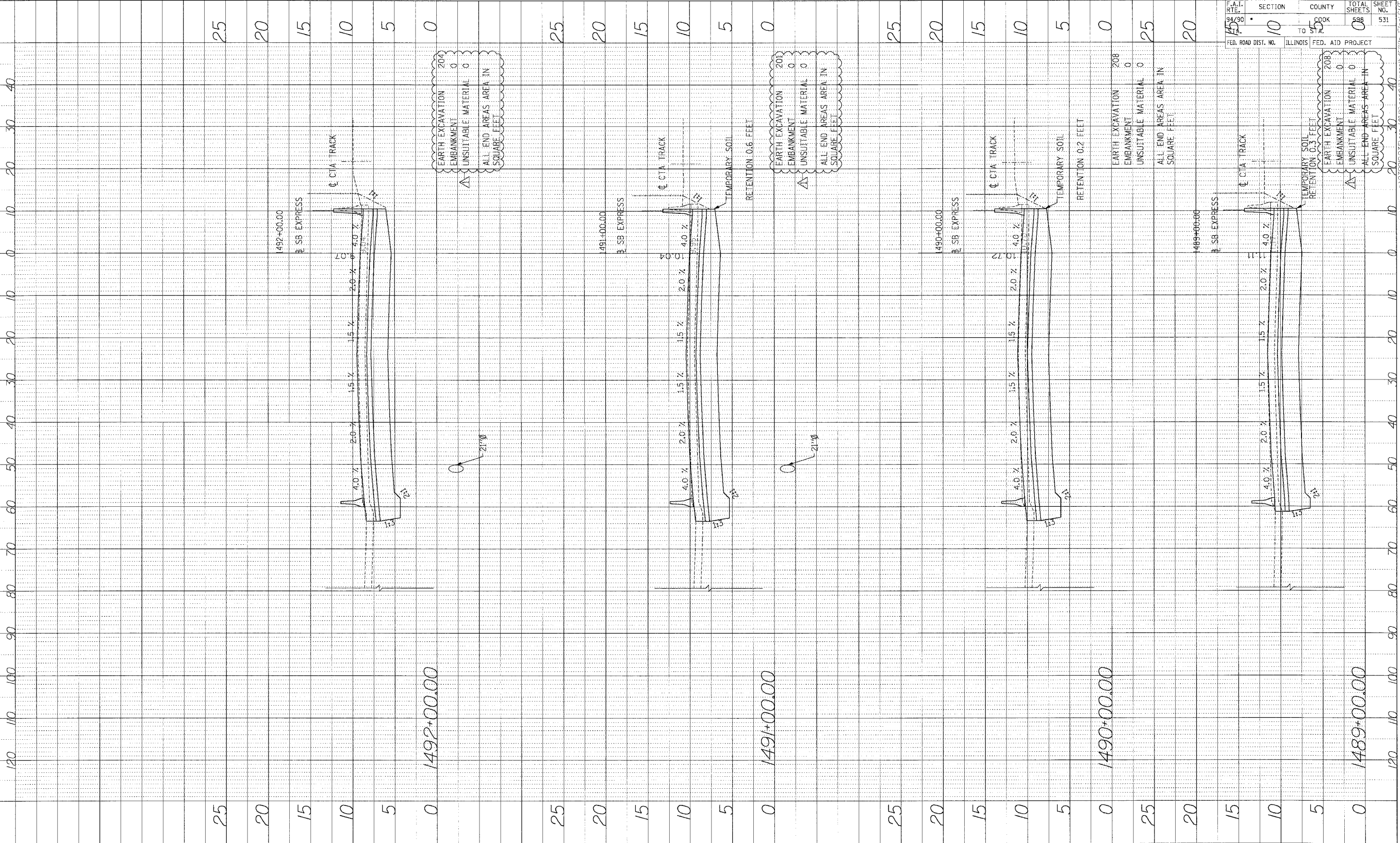


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62302 • (1818, ETC. 2324.6-1PR-9)
 SECTION COUNTY TOTAL SHEETS SHEET NO. 10 COOK ILLINOIS 530
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. NOTED TO
 STRUCTURE INSTALLED BY



62302	• (1818, ETC. 2324.6-1PR-9		TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 159	SECTION	COUNTY COOK	588	531
	TO	FROM		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

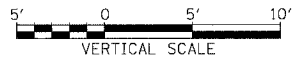
EARTH EXCAVATION 204
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

EARTH EXCAVATION 204
 EMBANKMENT 0
 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET

EARTH EXCAVATION 208
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 UNSUITABLE MATERIAL 0
 ALL END AREAS AREA IN SQUARE FEET



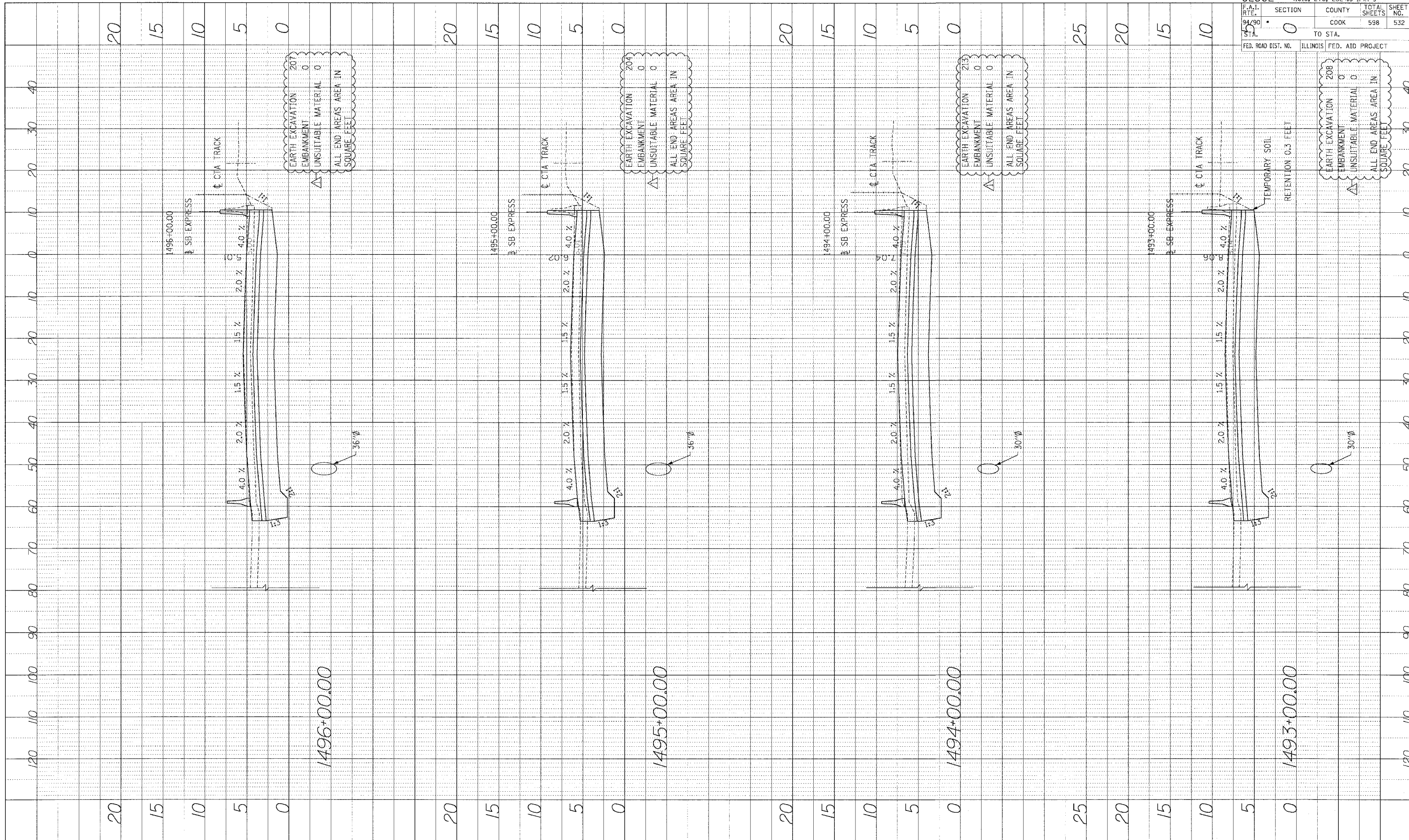
ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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PROFIT BY DATE
 NOTE BOOK NO. CHECKED BY
 NO. STRUCTURE NOTATION OF RD



62302	(1818, ETC, 2324.6-1PIR-9
F.A.I. R.T.E. 94/90	SECTION 0
STA. 55	COUNTY COOK
FED. ROAD DIST. NO.	TO STA.
	ILLINOIS FED. AID PROJECT
	TOTAL SHEETS 598
	SHEET NO. 532

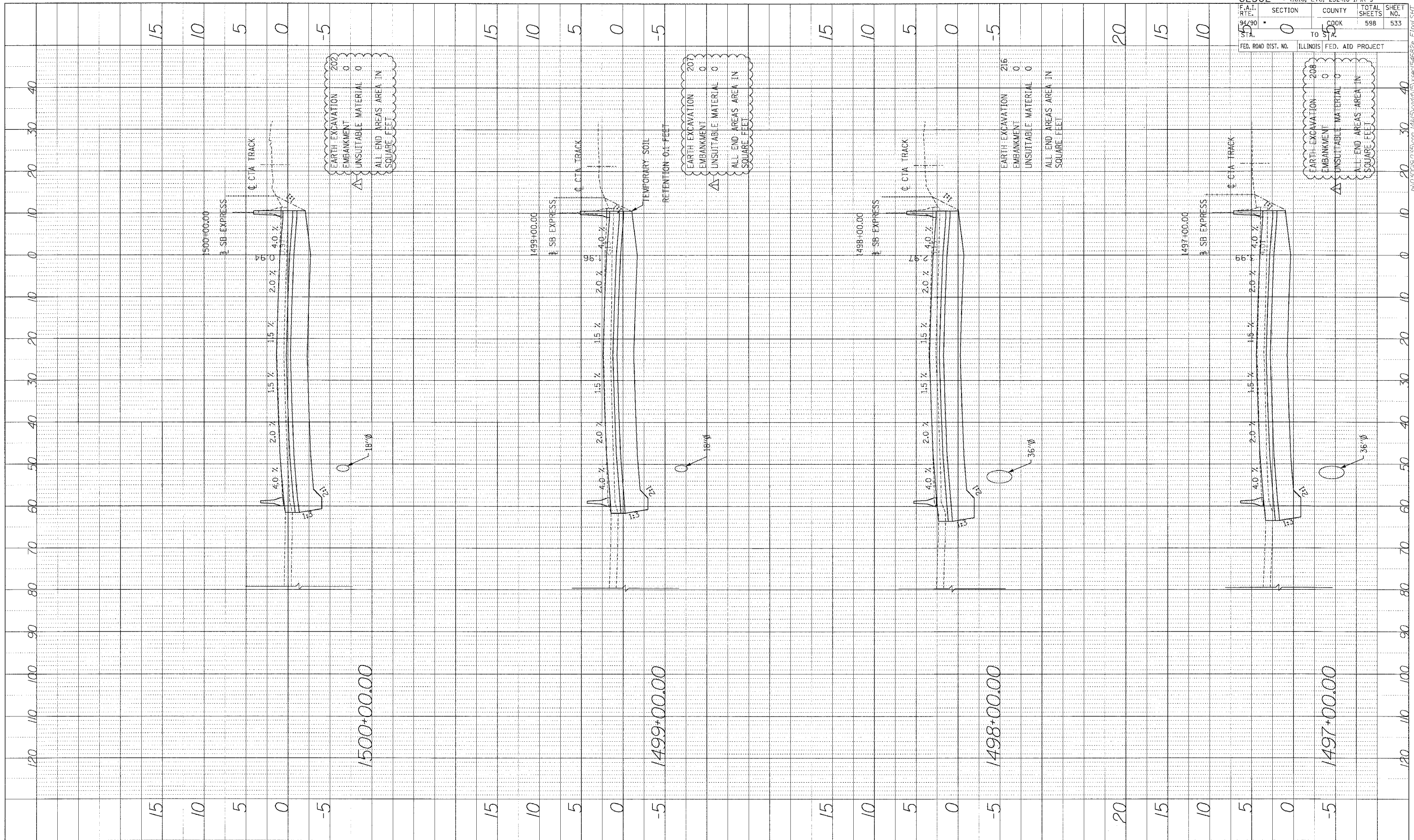
Edwards AND Kelcey
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 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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 CHECKED BY: _____
 INCHES: _____
 FEET: _____



62302	11818, ETC. 2324.6-1P1R-9
F.A.T. NO. 94/90	SECTION 0
STA. 15	COUNTY COOK
	TOTAL SHEETS 598
	SHEET NO. 533
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

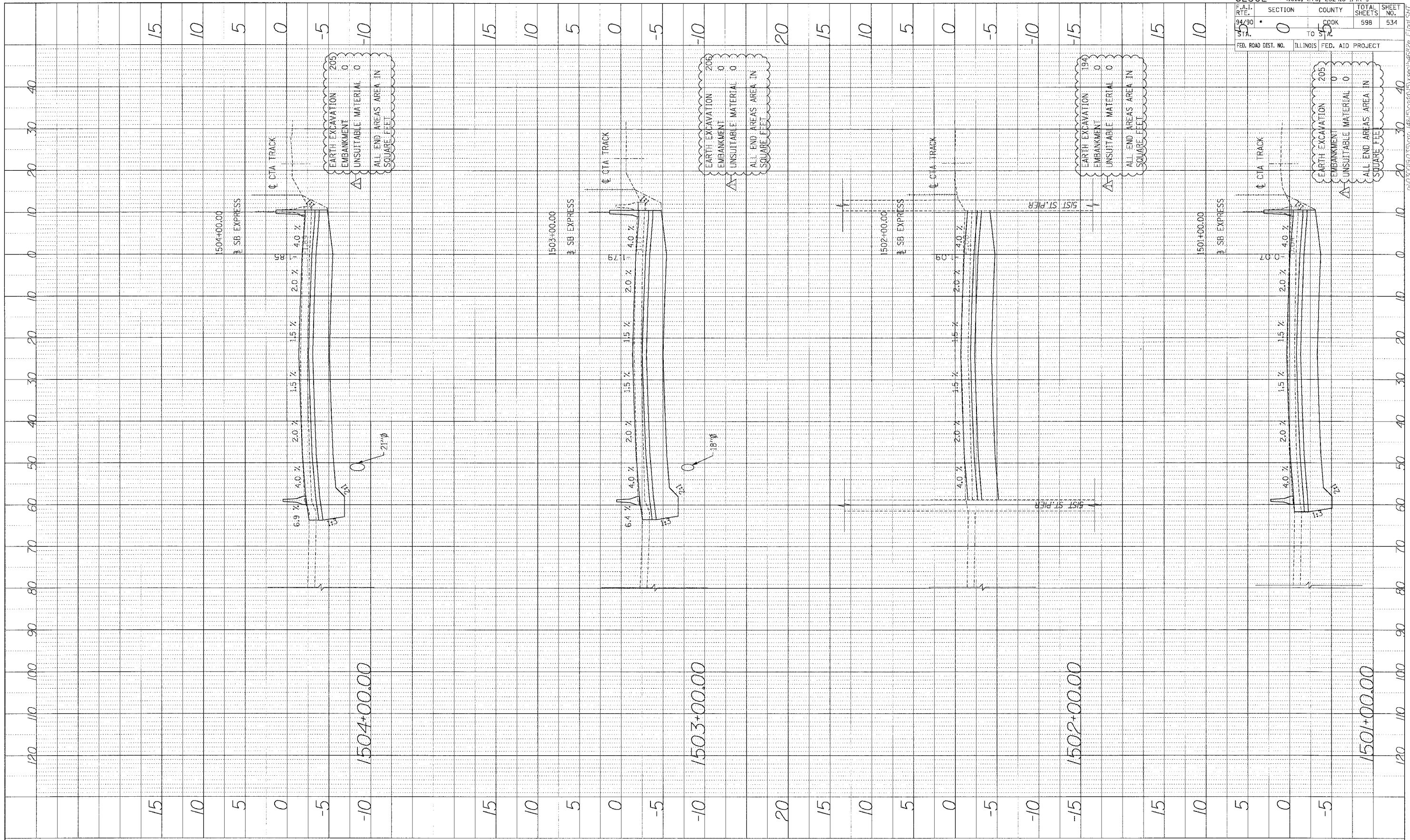
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



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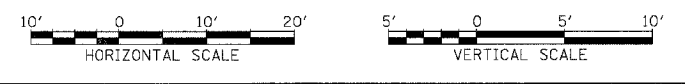
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PROFILE SUBMITTED BY DATE
 NO. OF SHEETS DRAWN BY
 DATE OF DRAWING
 NAME OF PROJECT
 DRAWING NO.



62302		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS
94/90	0	COOK	598
STA.	TO		SHEET NO.
15	95		534

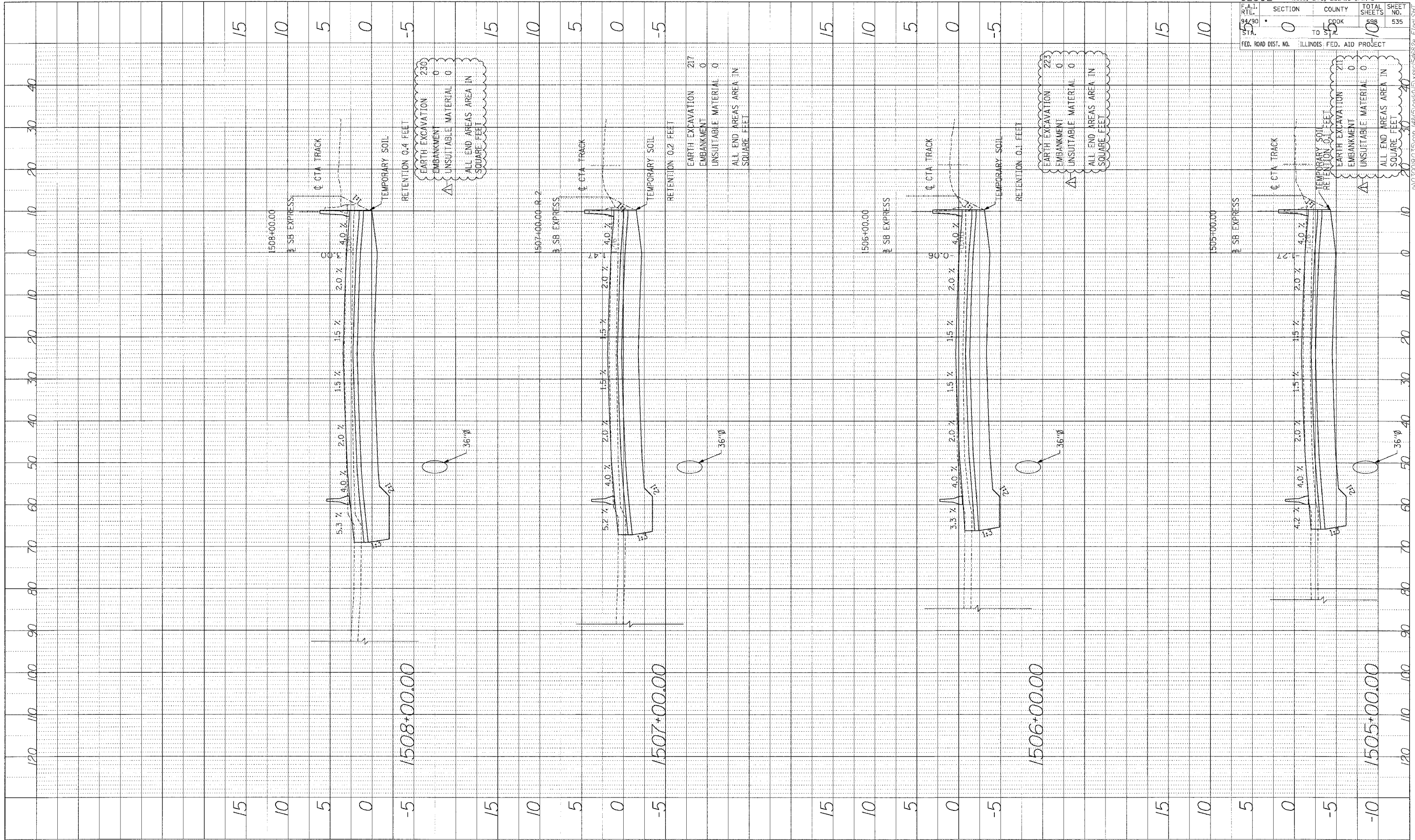
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



STA.

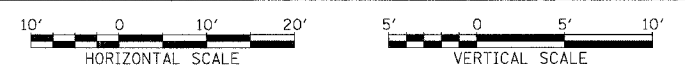
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 CHECKED BY: []
 DATE: []



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F.A.I. DIST. 90	TO 10	ILLINOIS FED. AID PROJECT		

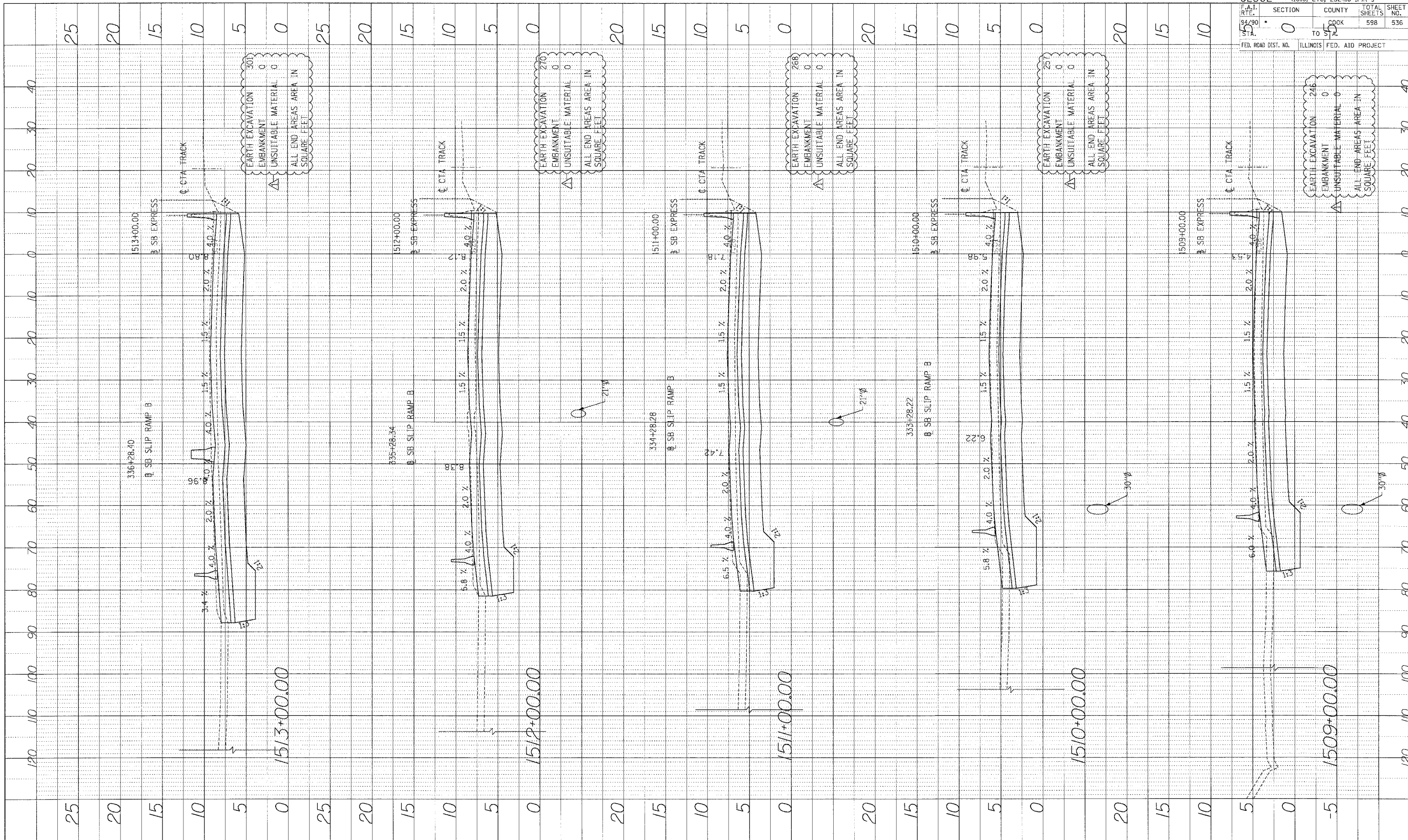
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



STA.

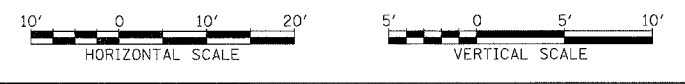
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PROF ILL	DATE
BY	
SHOWN TO	
DESIGNED BY	
CHECKED BY	
DATE	



62302	• (1818, ETC, 2324.6-IPR-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	COOK	598	536
STA. 1510+00.00	TO STA. 1509+00.00	ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			

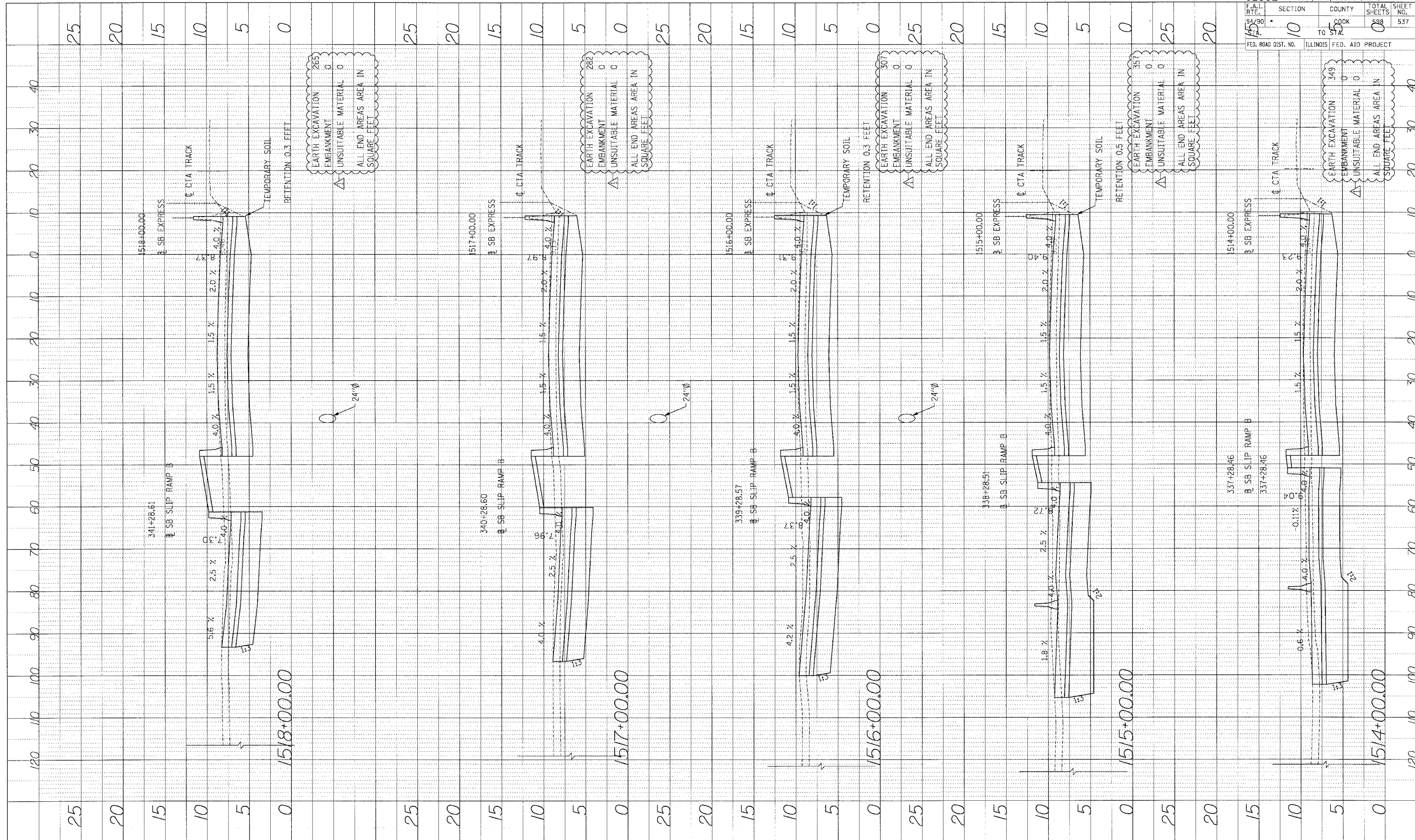
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



STA.

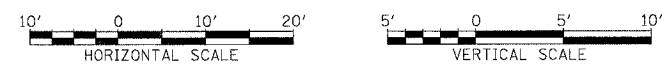
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 STRUCTURE UG/AT/MS CH/D



62302	(1818, ETC, 2324.6-1PR-9
F.A. RT. 94/90	SECTION 10
TO STA. 5	COUNTY COOK
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
TOTAL SHEETS 588	SHEET NO. 537

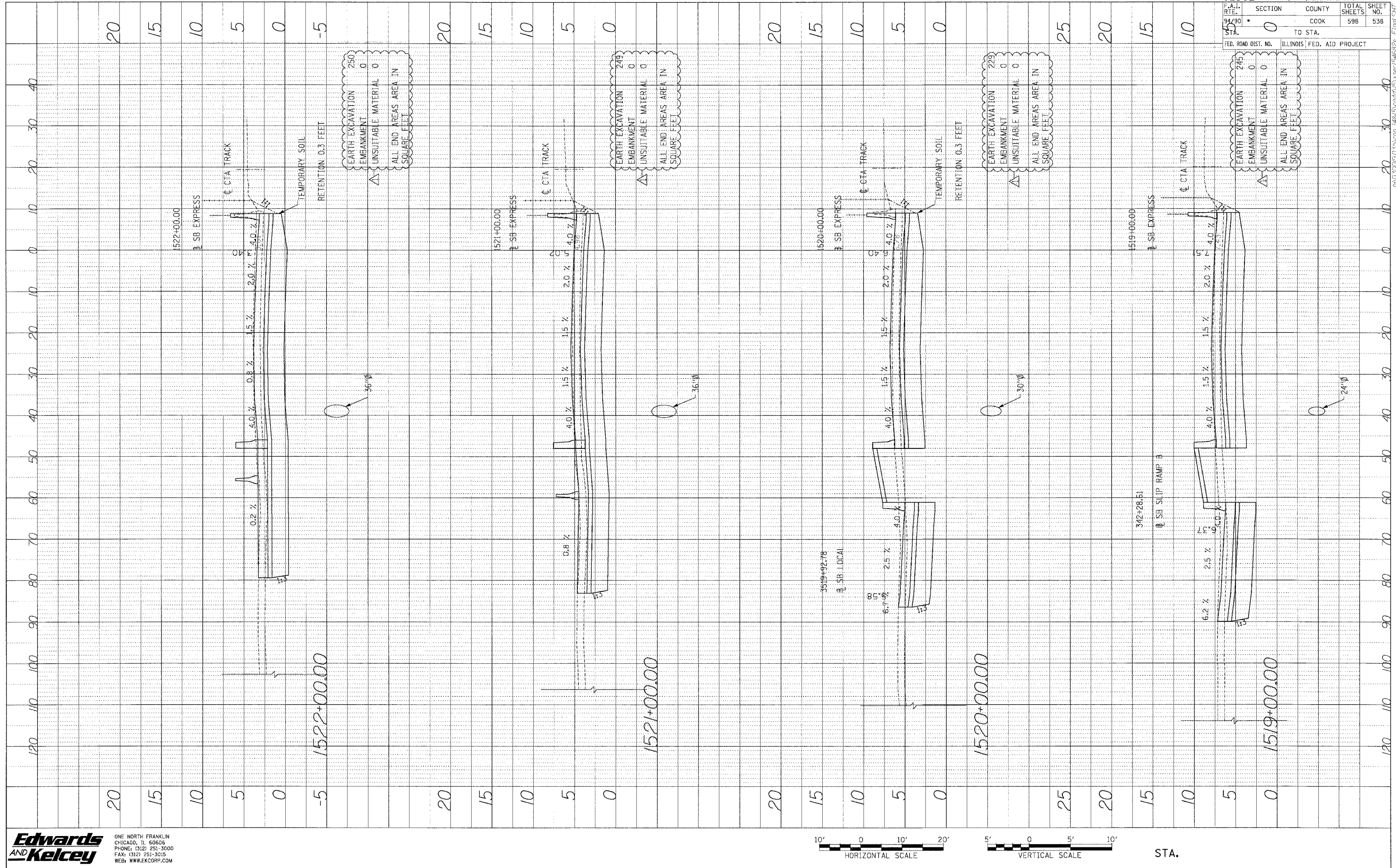
Edwards AND Kelcey
 ONE NORTH FRANKLIN CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



STA.

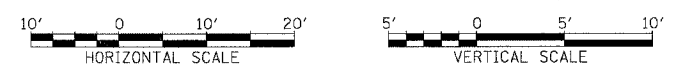
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LAST BOOK		
NO.		



62302	• (1818, ETC, 2324.6-1PR-9		
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0	COOK	598	538
TO STA.	ILLINOIS FED. AID PROJECT		

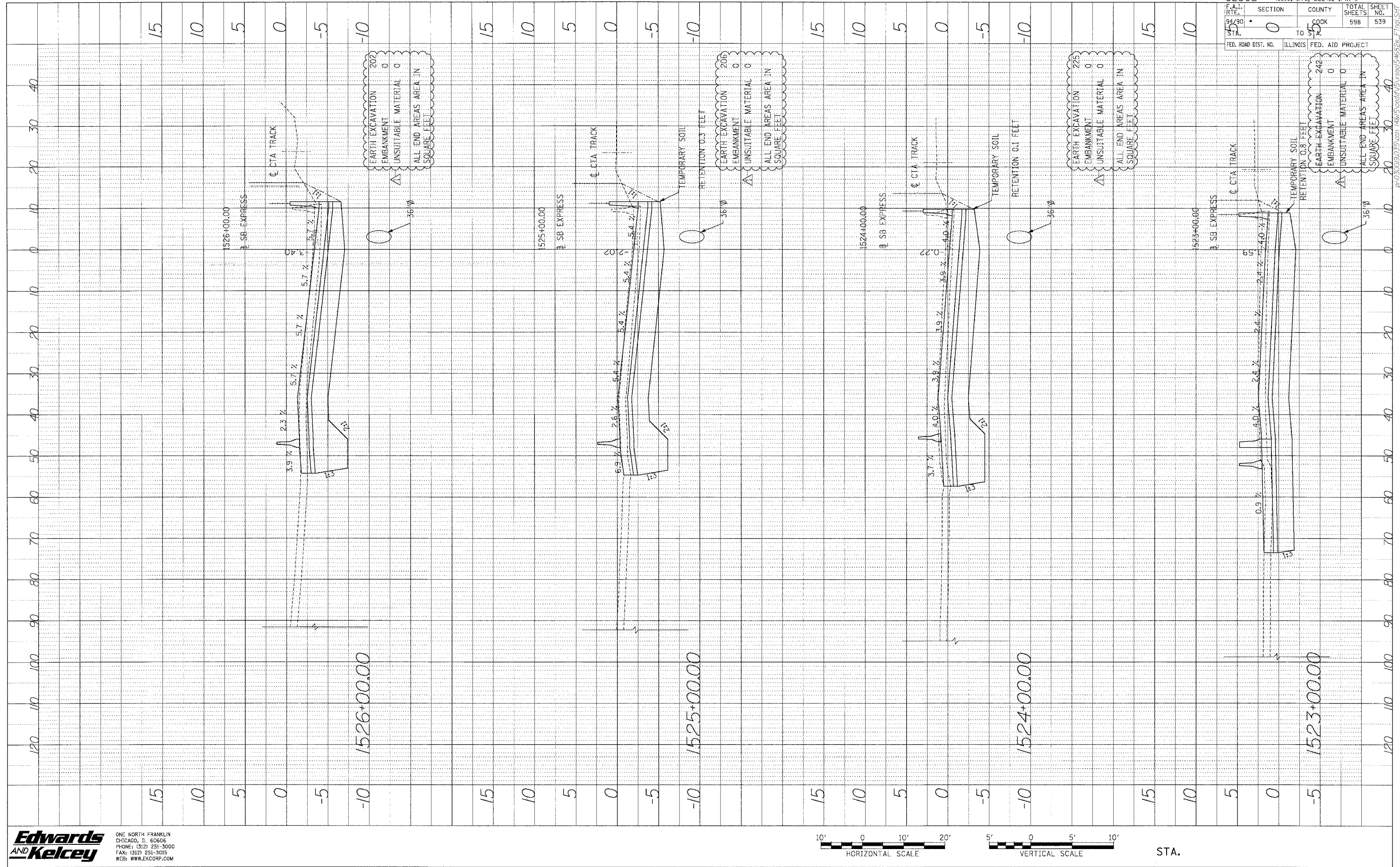
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM



STA.

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PROFILE: DRAWN BY: DATE:
 REVISIONS: BY: DATE:
 NOTE BOOK: CHECKED BY: DATE:
 NO. STRUCTURE NOTATION: 0760



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	0	COOK	598	539
STA.	TO STA.	FED. AID PROJECT		
		ILLINOIS		

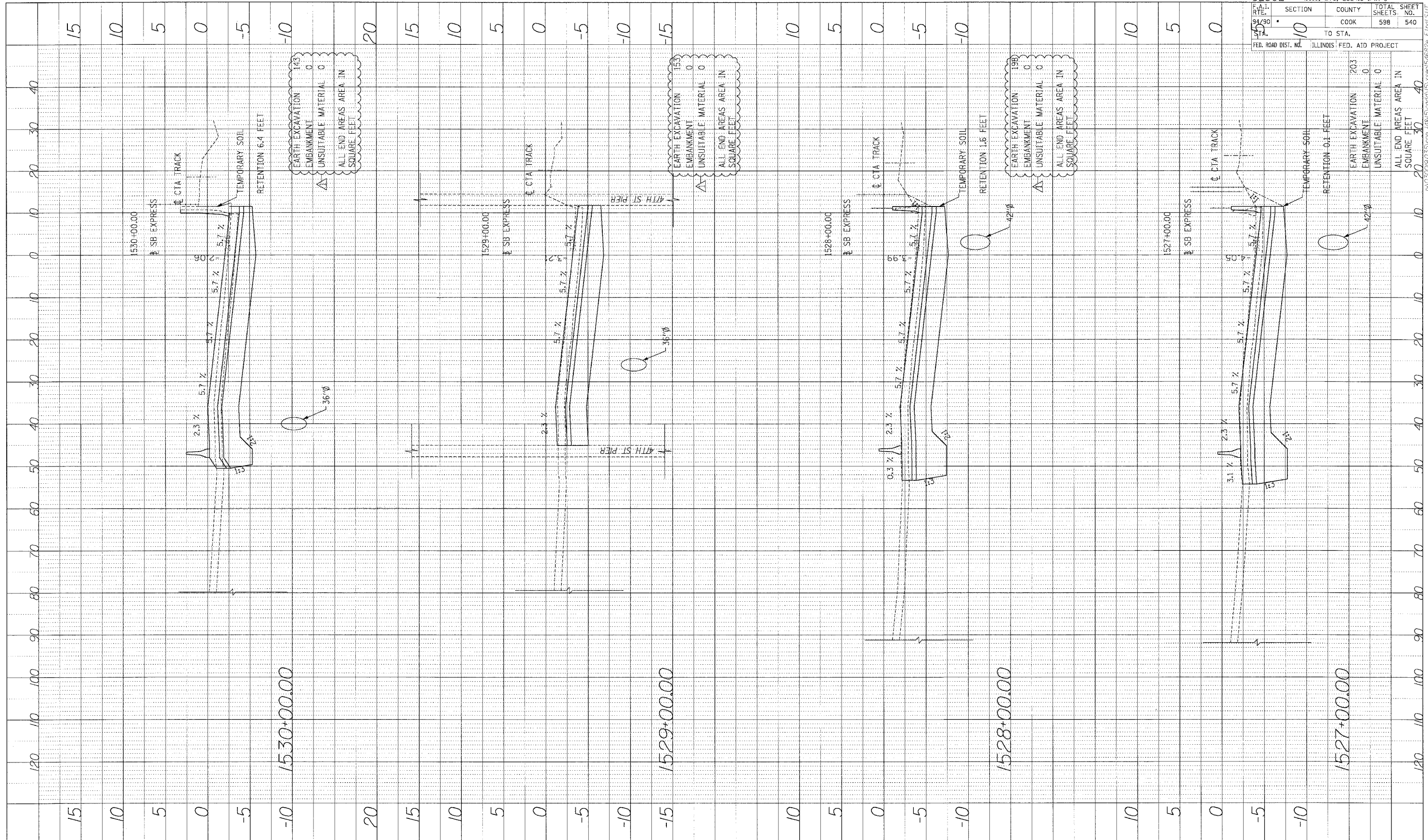
Edwards AND Kelcey
 ONE NORTH FRANKLIN CHICAGO, IL 60606
 PHONE: (312) 251-3000
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STA.

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PROFILE SURVEYED BY DATE
 DATE CHECKED BY DATE
 NO. STRUCTURE NOTES (REV)



62302 • (1818, ETC. 2324.6-1)PR-9	
F.A.I. RT. 94/90	SECTION 10
STA. 5	COUNTY COOK
TO STA. 10	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
TOTAL SHEET NO. 598	TOTAL SHEET NO. 540

EARTH EXCAVATION	143	EARTH EXCAVATION	203
EMBANKMENT	0	EMBANKMENT	0
UNSUITABLE MATERIAL	0	UNSUITABLE MATERIAL	0
ALL END AREAS AREA IN SQUARE FEET	20	ALL END AREAS AREA IN SQUARE FEET	30

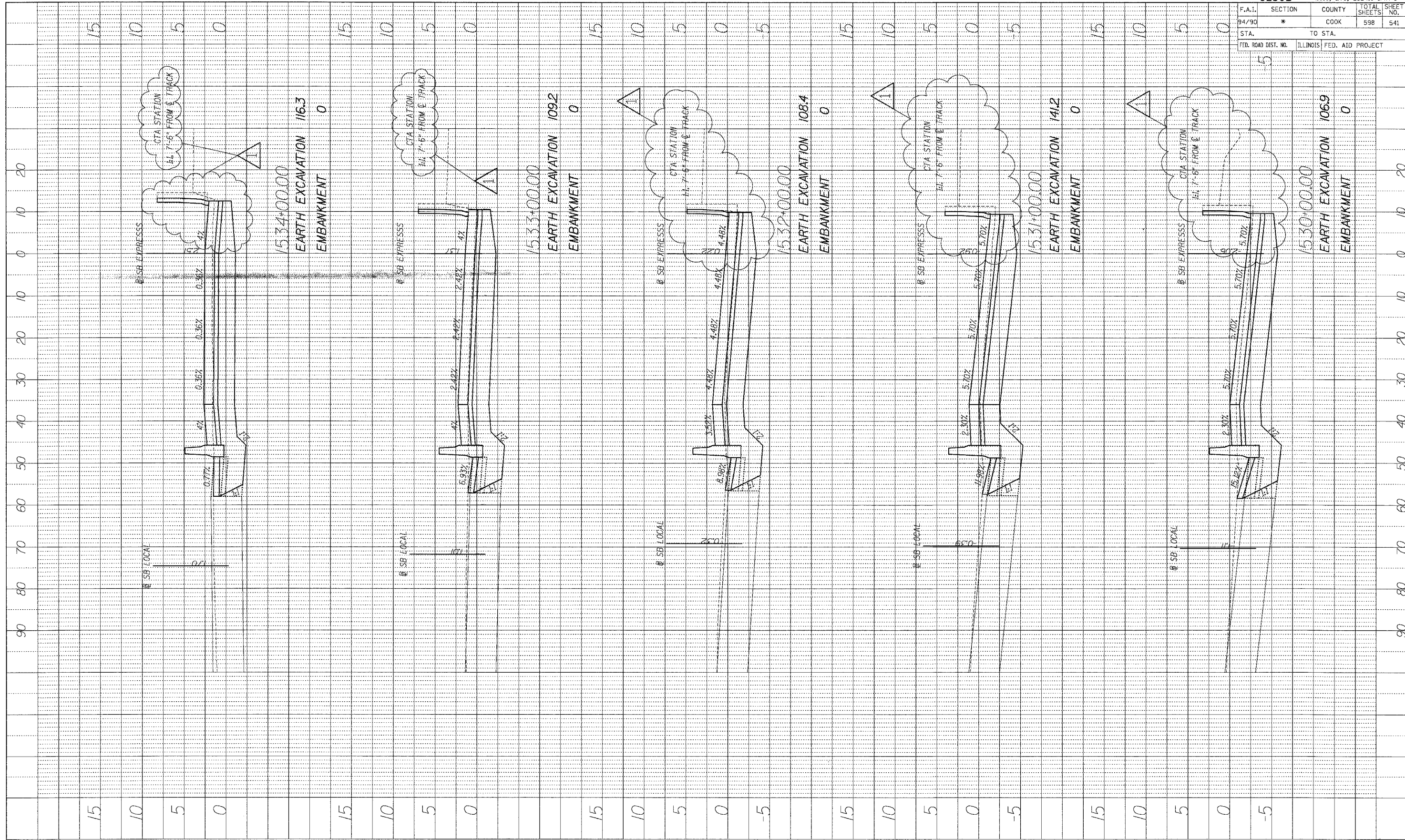
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STA.

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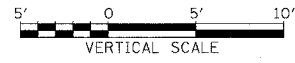
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 PLOTTED BY
 NOTE BOOK NO. AND SHEET NO.
 STRUCTURE NOTATION: CHND



62302		*11818, ETC, 2324.6-1PIR-9	
F.A.I.	SECTION	COUNTY	TOTAL SHEET NO.
94/90	*	COOK	598
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

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ADDENDUM 1 8/12/05

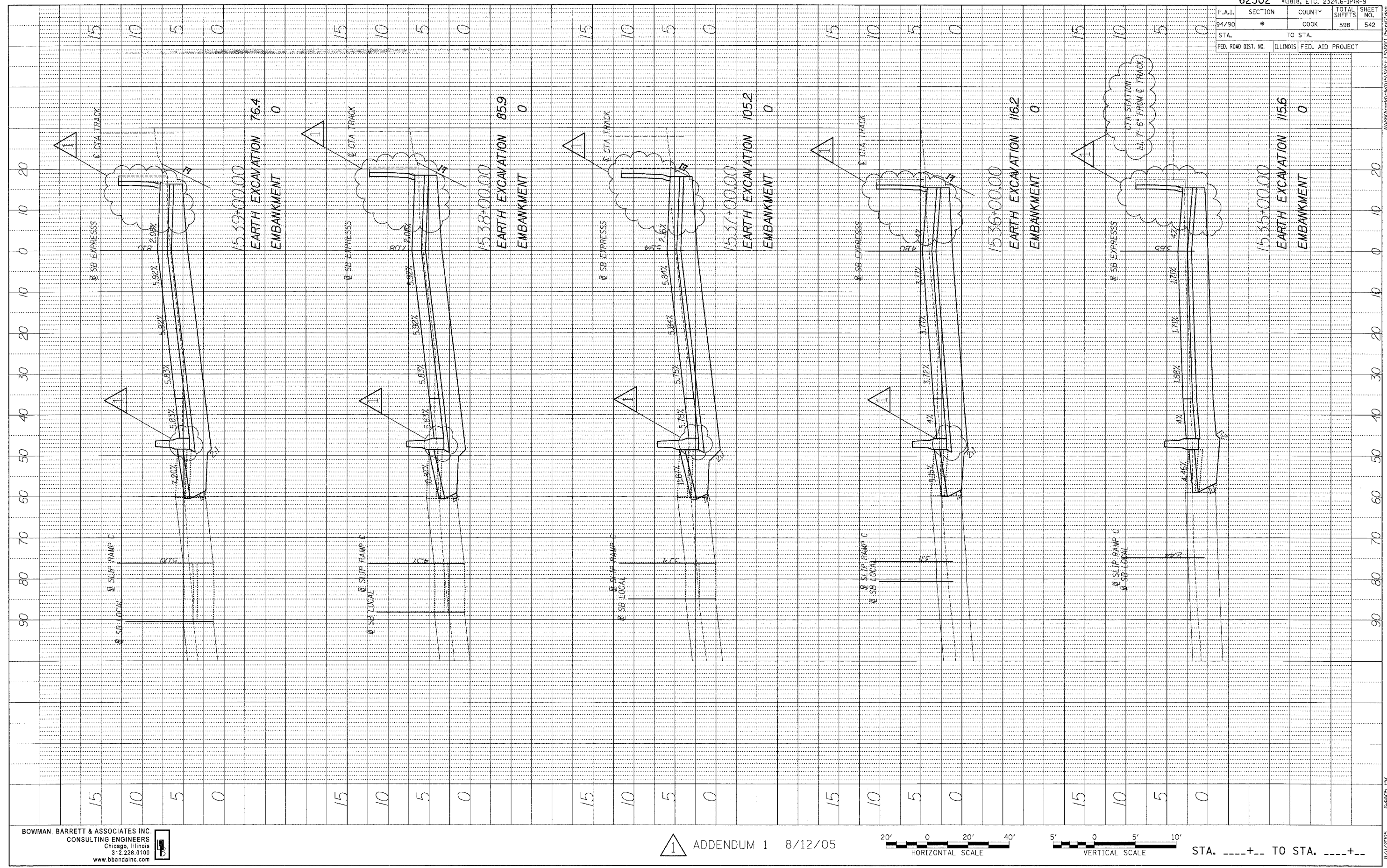


STA.+.. TO STA.+..

6-43-95 TM 8/11/2005

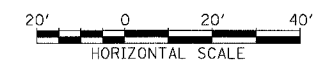
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94/90	*	COOK	598	542
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

PROFILE SURVEYED	BY	DATE
PAINTED		
NOTE BOOK		
NO.		



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ADDENDUM 1 8/12/05

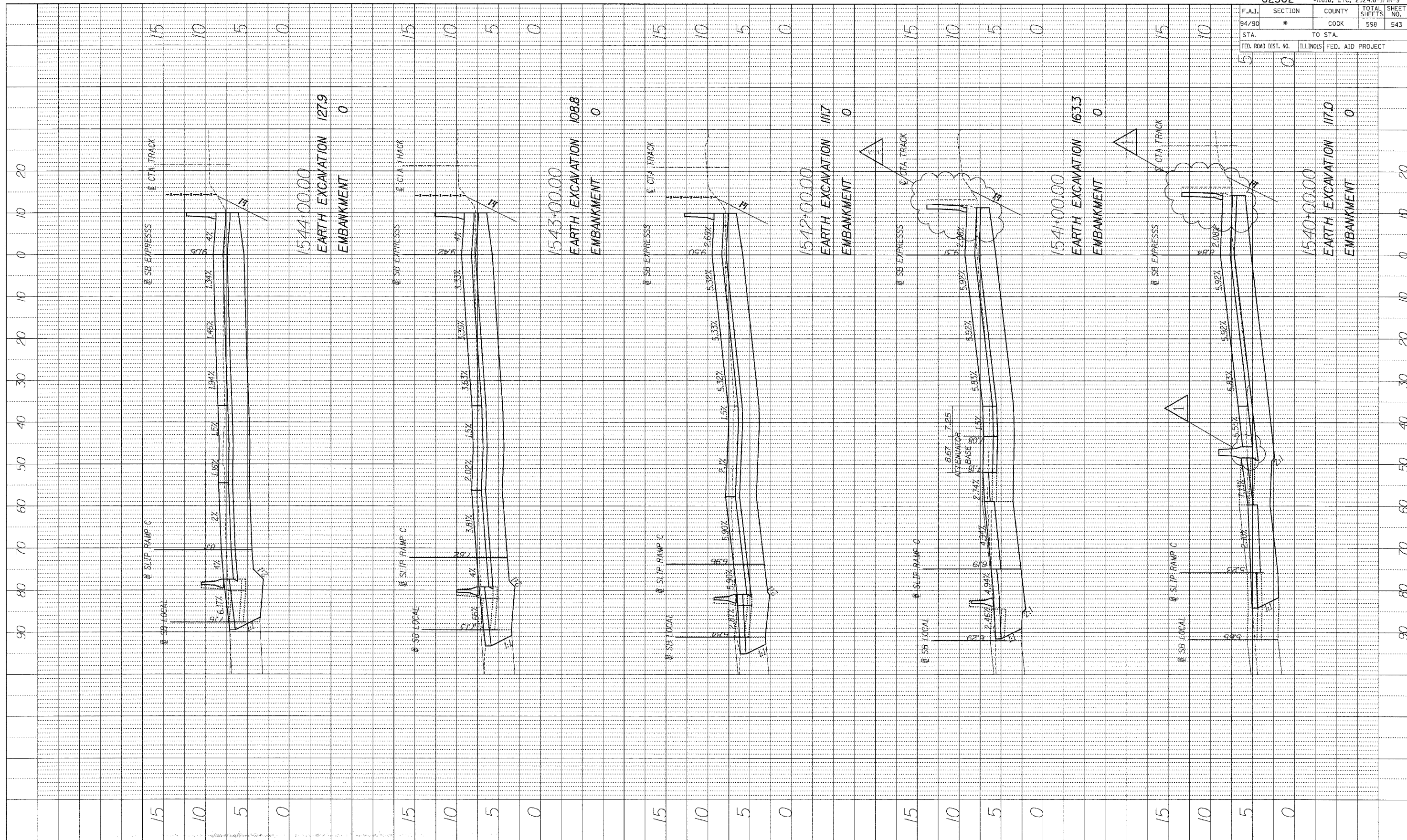


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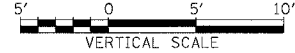
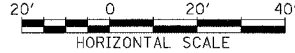
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84/90	*	COOK	598	543
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROFILE	REVISION	BY	DATE
NOTE BOOK	PLANNED		
NO.	DESIGNED		
	BY		
	NO.		
	STRUCTURE		
	NOTATION		
	CHNO		



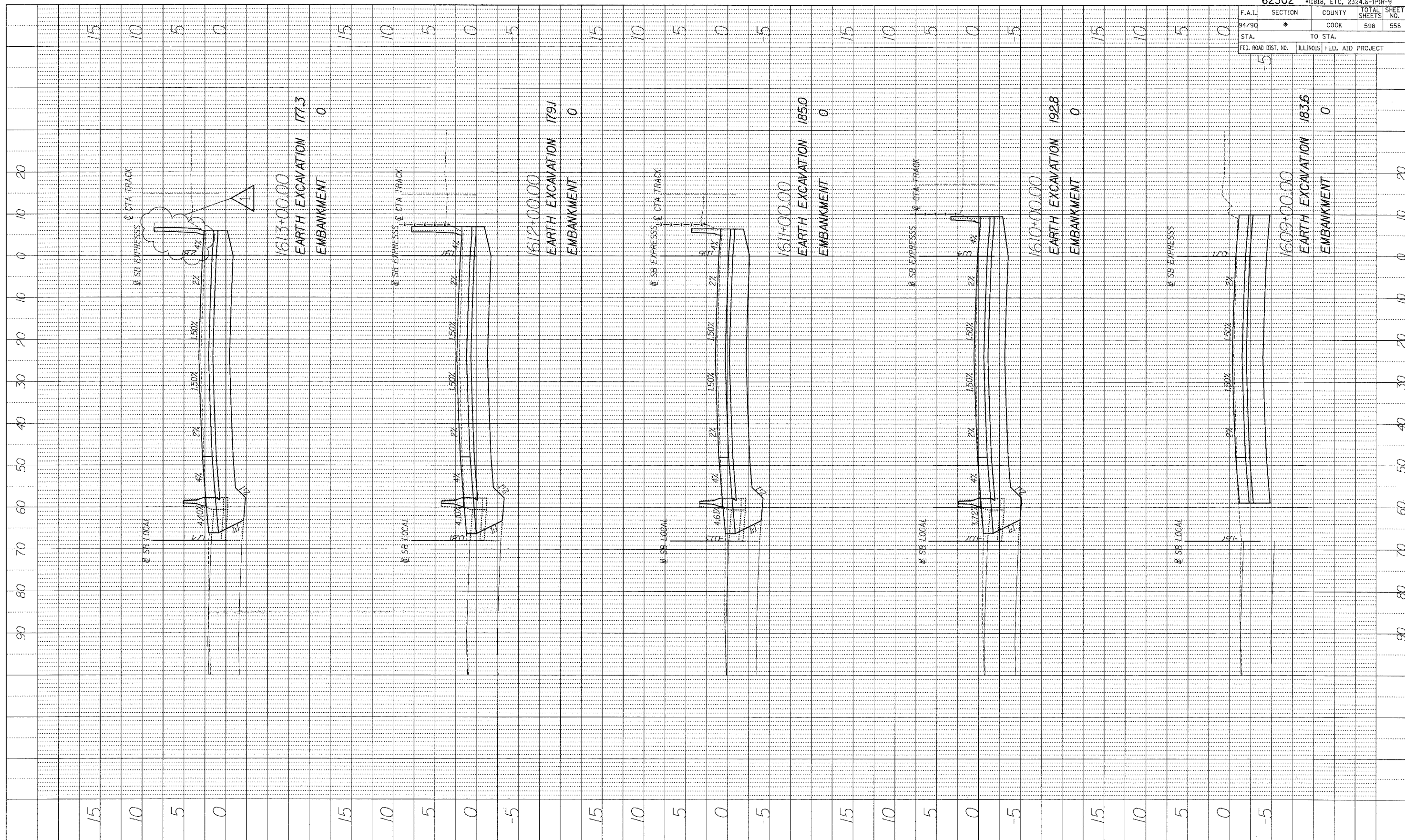
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ADDENDUM 1 8/12/05



STA. ----+-- TO STA. ----+--

PROFILE SURVEYED BY DATE
 PLOTTED CHECKED
 NOTE BOOK B.M. NOTED
 NO. STRUCTURE NOTATION CHFD



1613+00.00
 EARTH EXCAVATION 177.3
 EMBANKMENT 0

1612+00.00
 EARTH EXCAVATION 179J
 EMBANKMENT 0

1611+00.00
 EARTH EXCAVATION 185.0
 EMBANKMENT 0

1610+00.00
 EARTH EXCAVATION 192.8
 EMBANKMENT 0

1609+00.00
 EARTH EXCAVATION 183.6
 EMBANKMENT 0

62302		*0818, ETC, 2324.6-1PR-9	
F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90 *	COOK	598	558
STA. TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			

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ADDENDUM 1 8/12/05

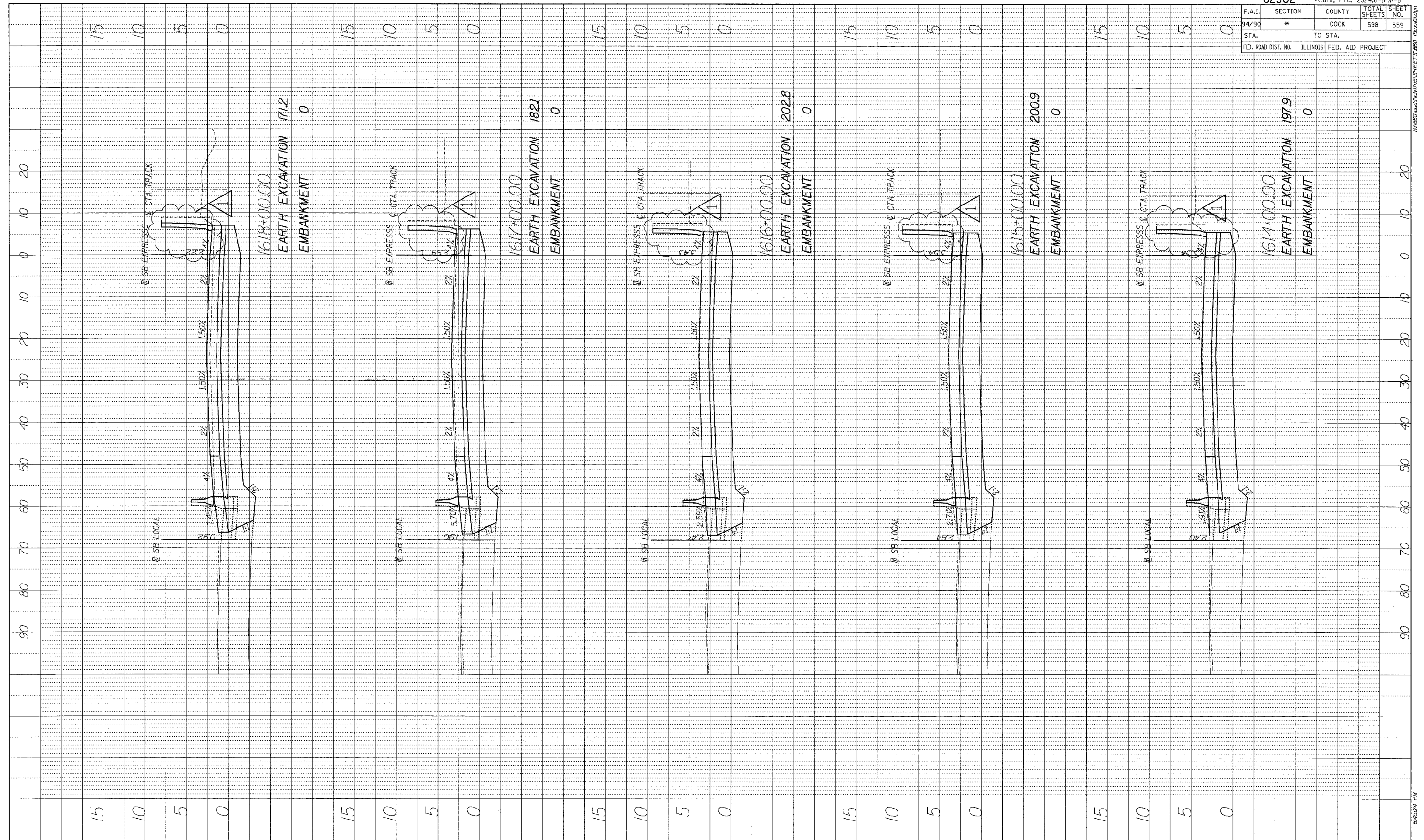


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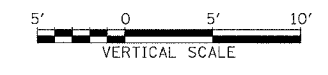
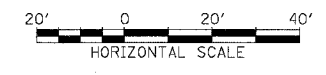
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94/90	*	COOK	598	559
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. DRAWING NO. STRUCTURE NOTATIONS CHKD



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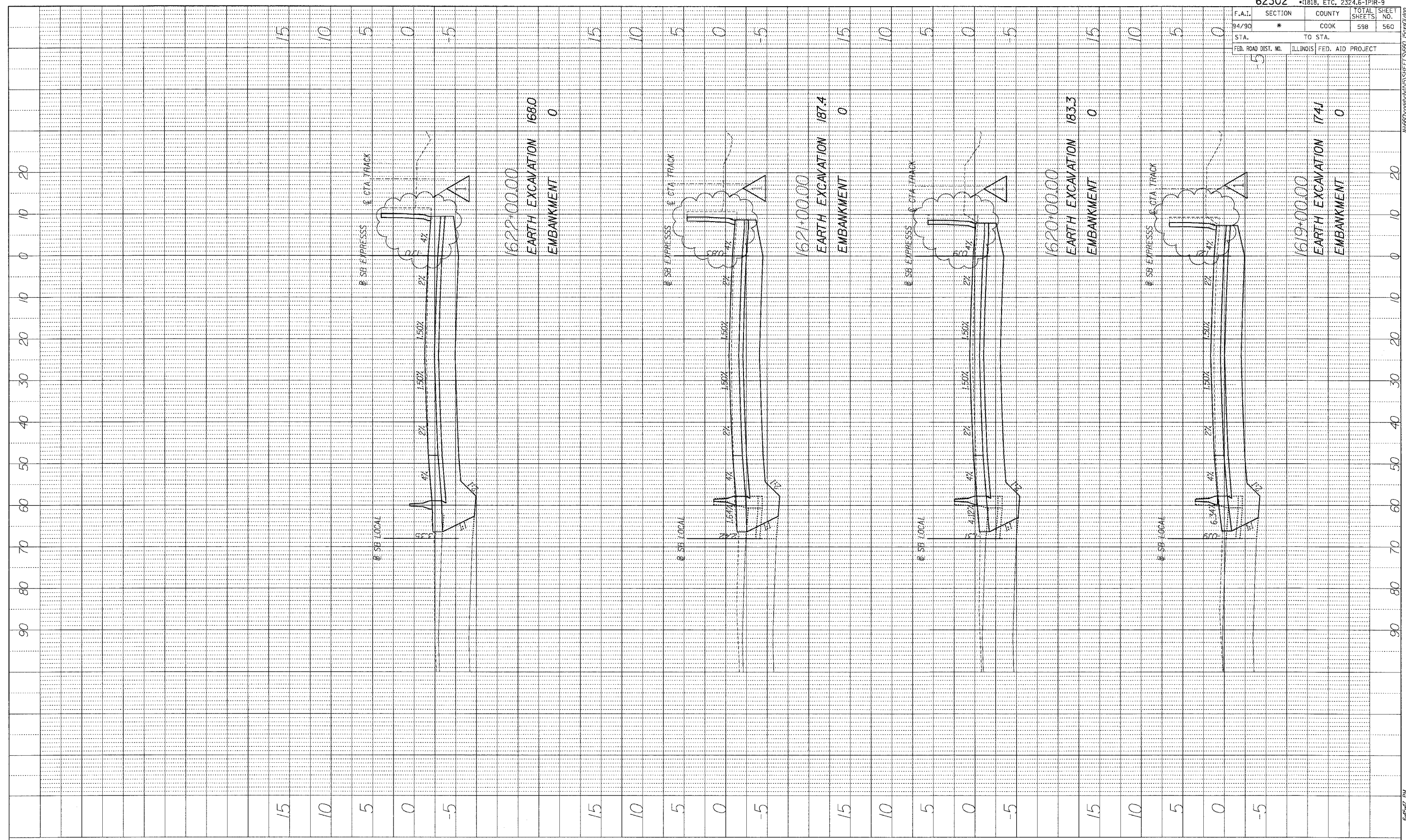
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STA.+... TO STA.+...

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90	*	COOK	598	560
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

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 PLOTTED CHECKED BY _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATION CHFD

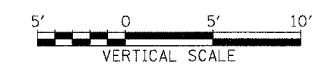
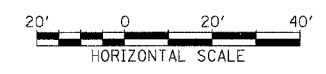


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 EMBANKMENT 0

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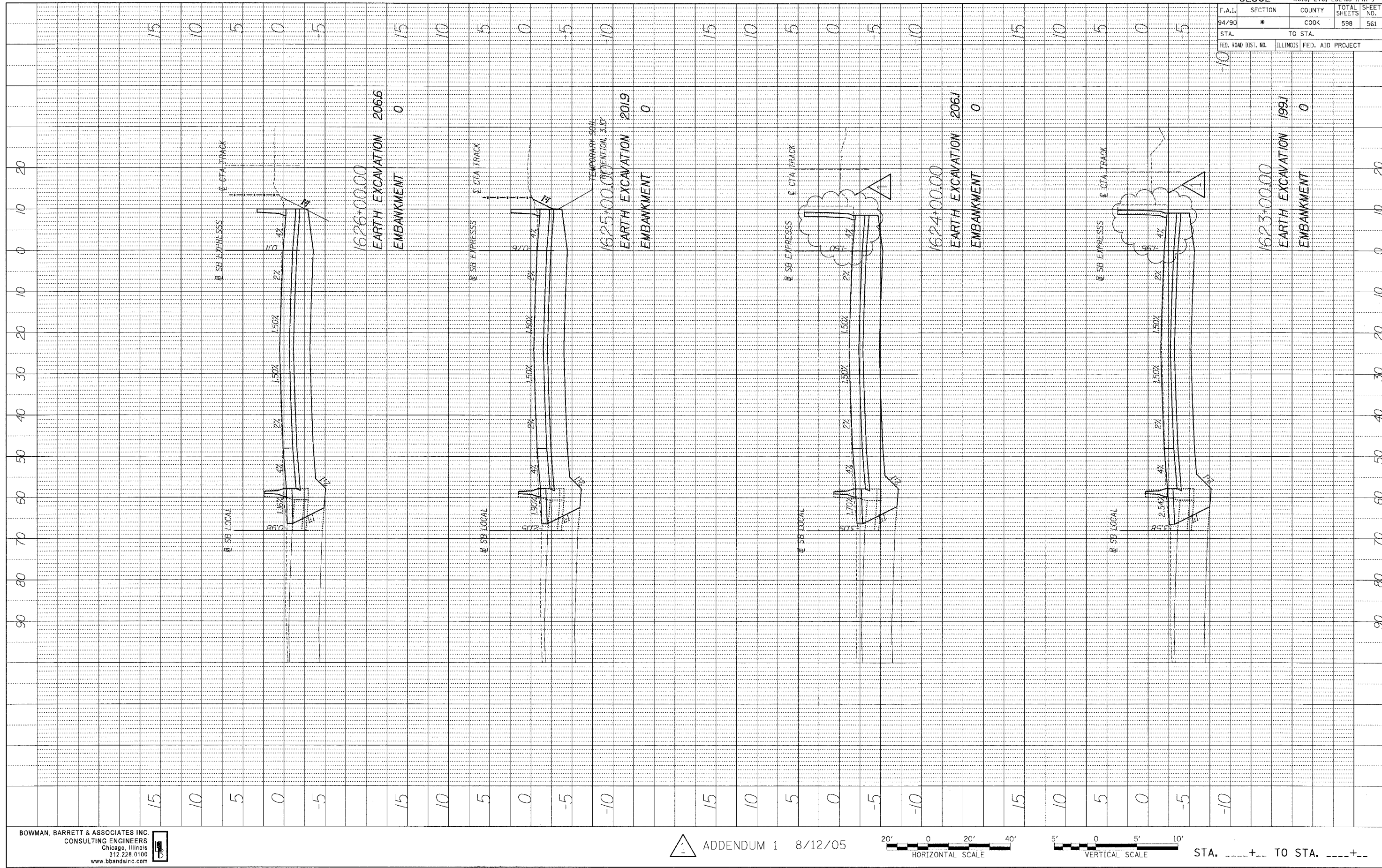
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 EARTH EXCAVATION 183.3
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1619+00.00
 EARTH EXCAVATION 174J
 EMBANKMENT 0



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PROFILE SURVEYED BY DATE
 PLATED DRAWING NO. DATE
 NOTE BOOK NO. DATE
 STRUCTURE NOTATION CIRCD



62302		* (1818, ETC, 2324.6-1PR-9	
F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90 *	COOK	598	561
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

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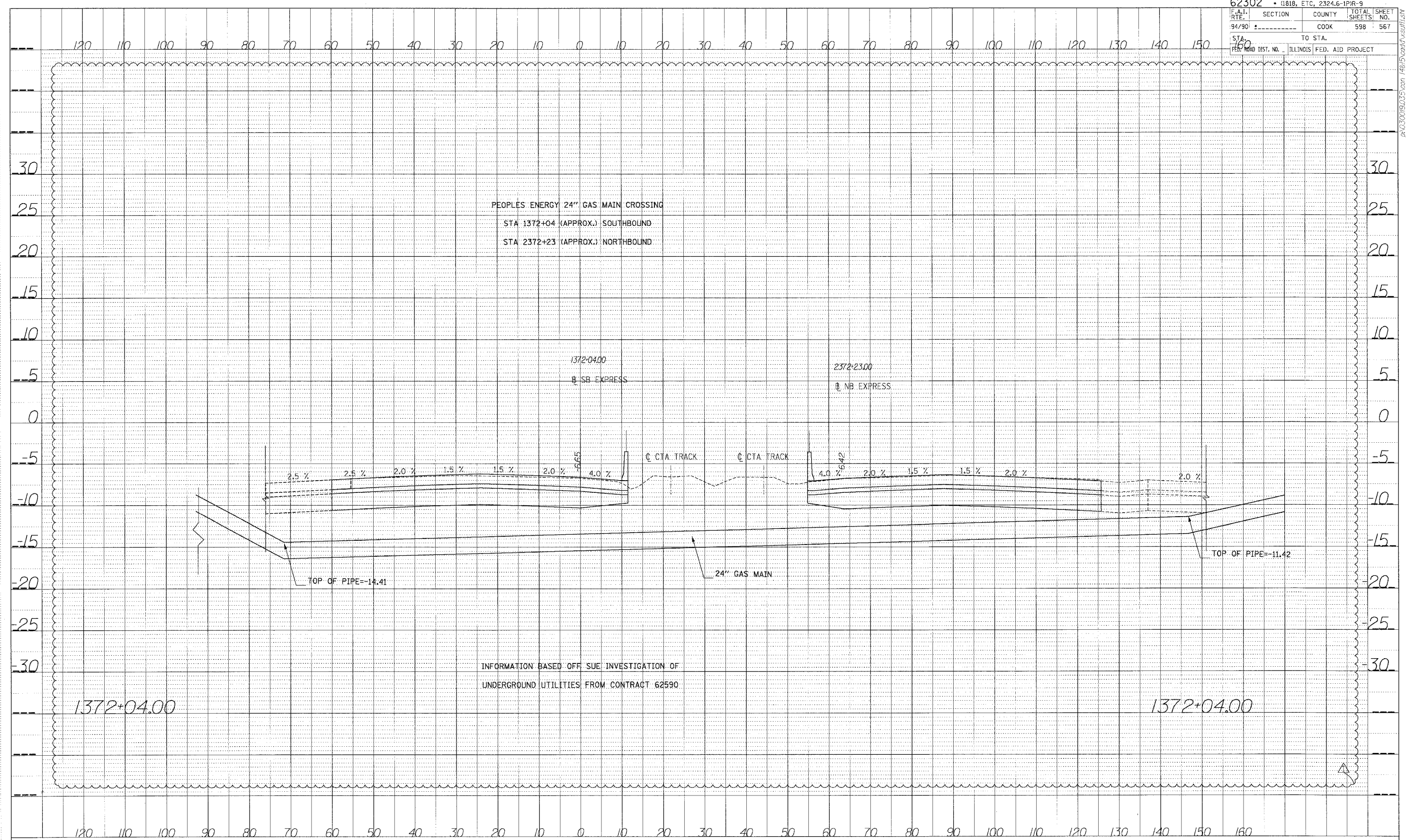
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STA.+.. TO STA.+..

8/17/2005 6:46:28 PM

PROFILE
 SURVEYED BY
 PLOTTED BY
 NOTE BOOK NO.
 DRAWING NO.
 STRUCTURE NOTATIONS: CP10



PEOPLES ENERGY 24" GAS MAIN CROSSING
 STA 1372+04 (APPROX.) SOUTHBOUND
 STA 2372+23 (APPROX.) NORTHBOUND

1372+04.00
 SB EXPRESS

2372+23.00
 NB EXPRESS

CTA TRACK

24" GAS MAIN

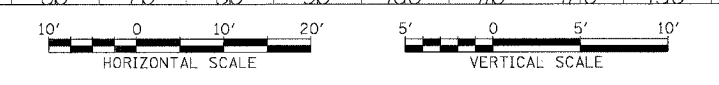
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TOP OF PIPE=-11.42

INFORMATION BASED OFF SUE INVESTIGATION OF
 UNDERGROUND UTILITIES FROM CONTRACT 62590

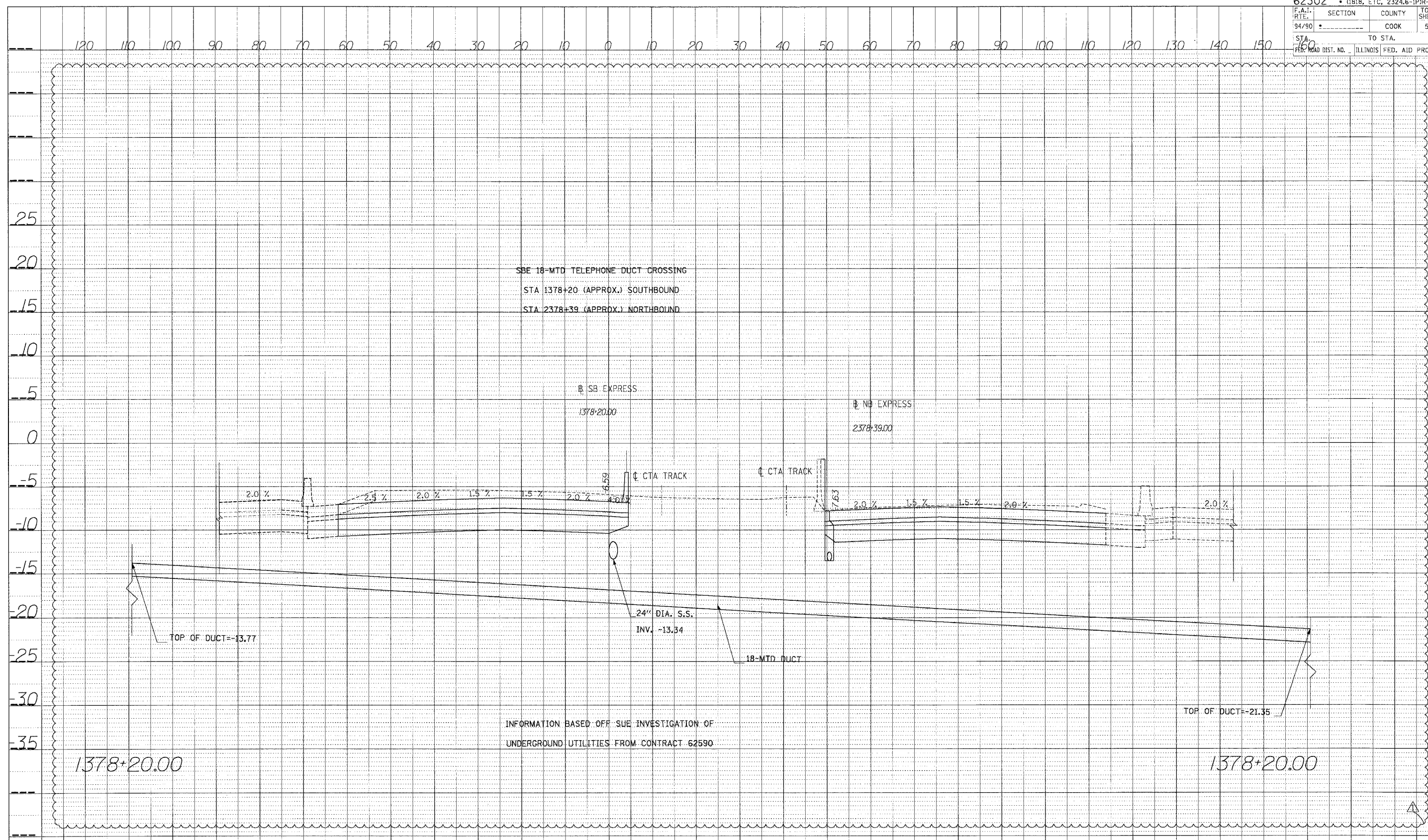
1372+04.00

1372+04.00



STA.

PROFILE SURVEYED BY DATE
 PLANNED BY
 NOTE BOOK NO. NO. 1
 STRUCTURE MATERIALS CIPRO



SBE 18-MTD TELEPHONE DUCT CROSSING
 STA 1378+20 (APPROX.) SOUTHBOUND
 STA 2378+39 (APPROX.) NORTHBOUND

SB EXPRESS
 1378+20.00

NB EXPRESS
 2378+39.00

CTA TRACK

CTA TRACK

24" DIA. S.S.
 INV. -13.34

18-MTD DUCT

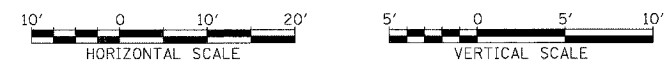
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TOP OF DUCT=-21.35

INFORMATION BASED OFF SUE INVESTIGATION OF
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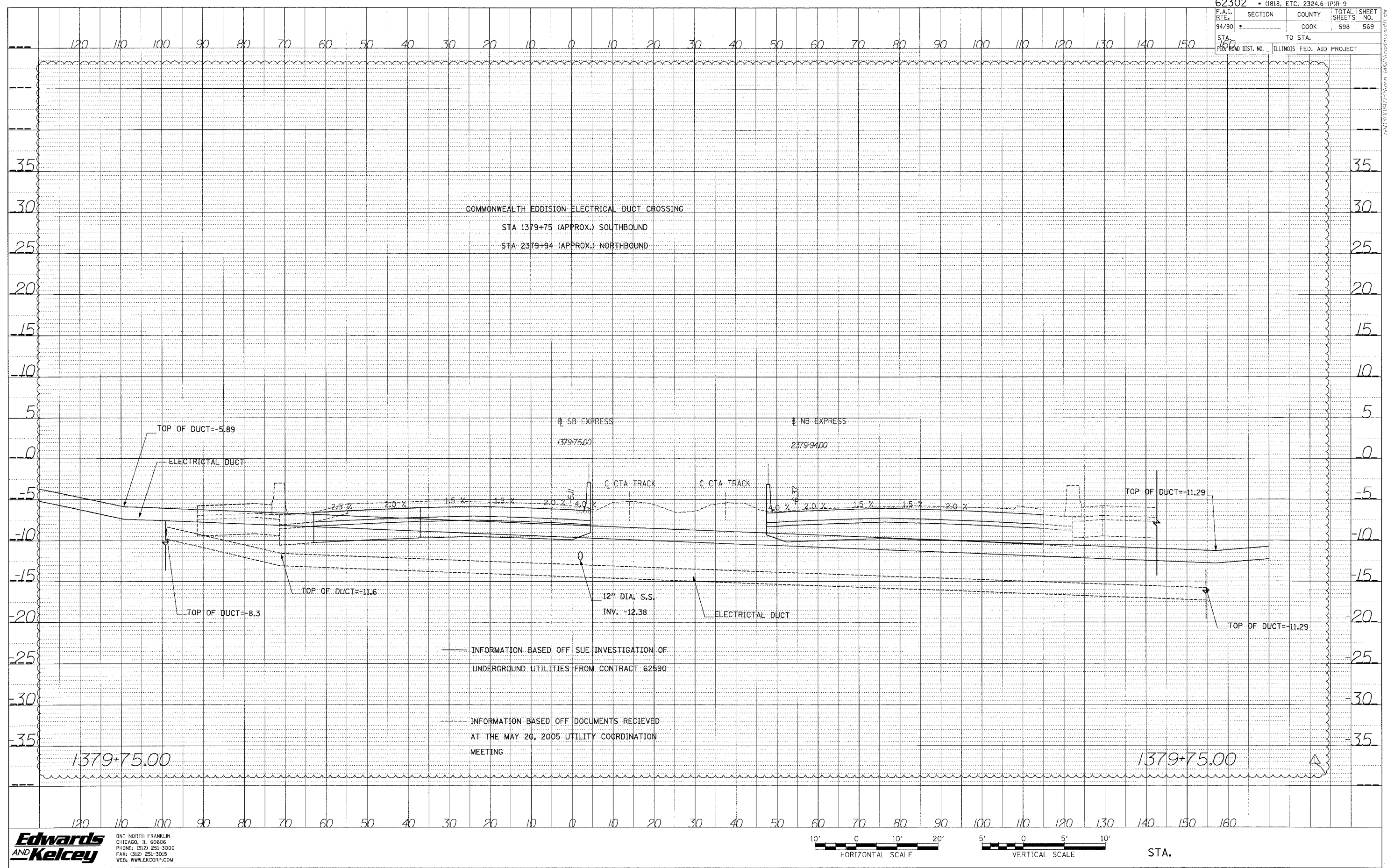
1378+20.00

1378+20.00

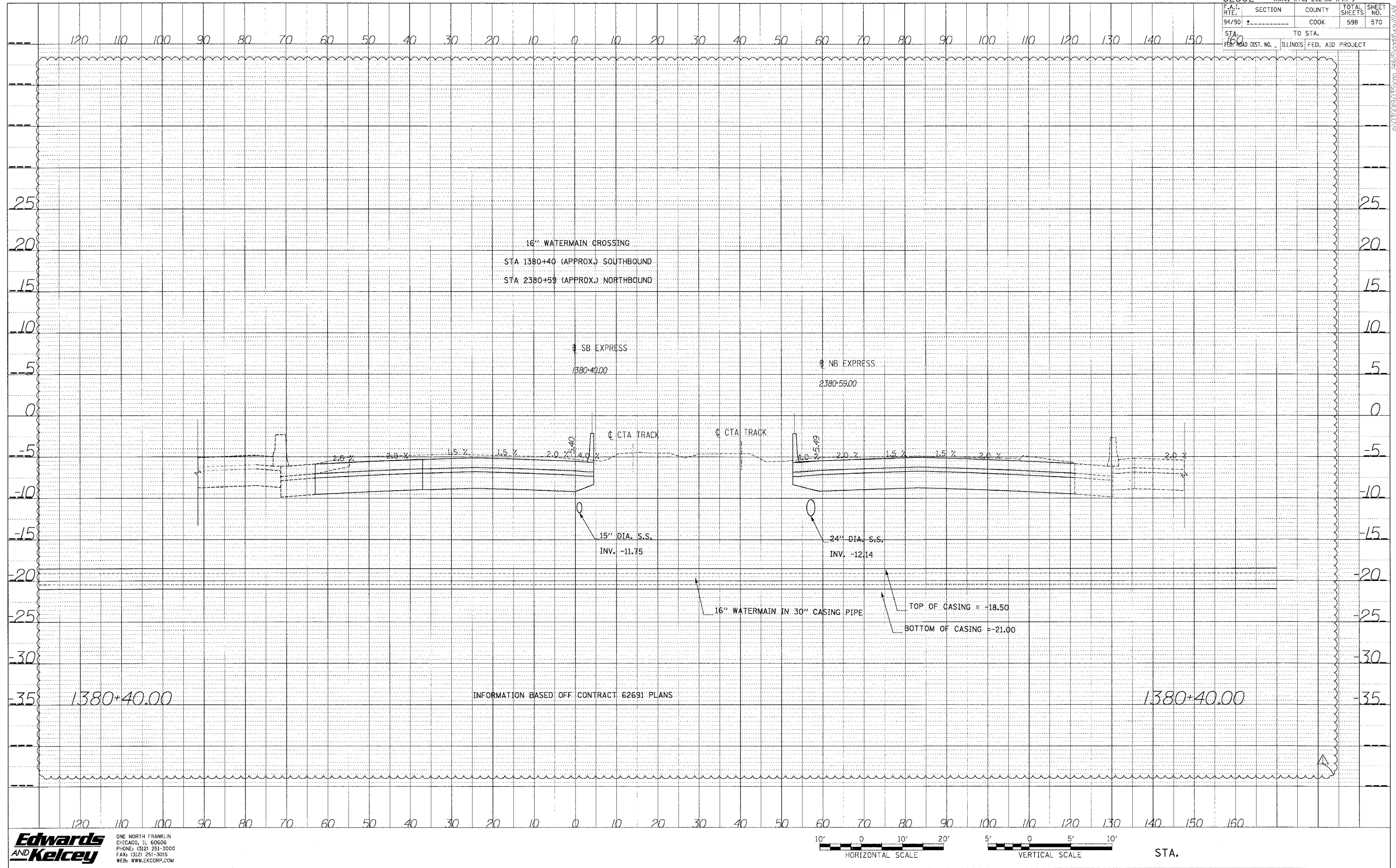


STA.

PROF. BY DATE
 DRAWN BY DATE
 CHECKED BY DATE
 IN CHARGE BY DATE
 NOTE BOOK NO.
 STRUCTURE IDENTIFICATION



62302 • (1818, ETC, 2324.6-IPR-9				
FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	570
STA. FROM		TO STA.		
FED. AID DIST. NO.		ILLINOIS FED. AID PROJECT		

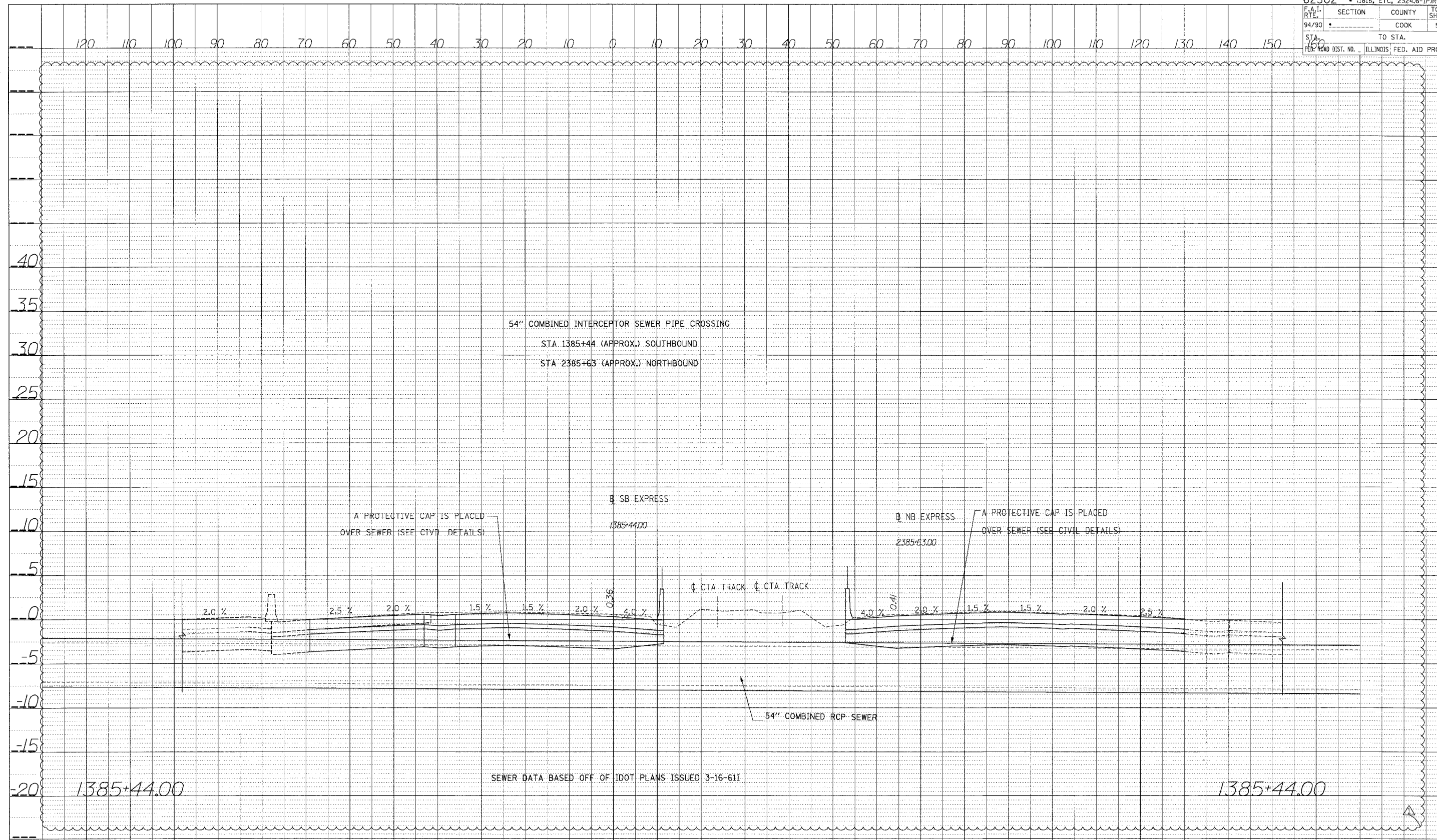


PROF. ILL.	DATE
BY	
REVISED	
CHECKED	
DATE	
NOTE BOOK	
NO.	
STRUCTURE	
NOTATION	
CHFD	

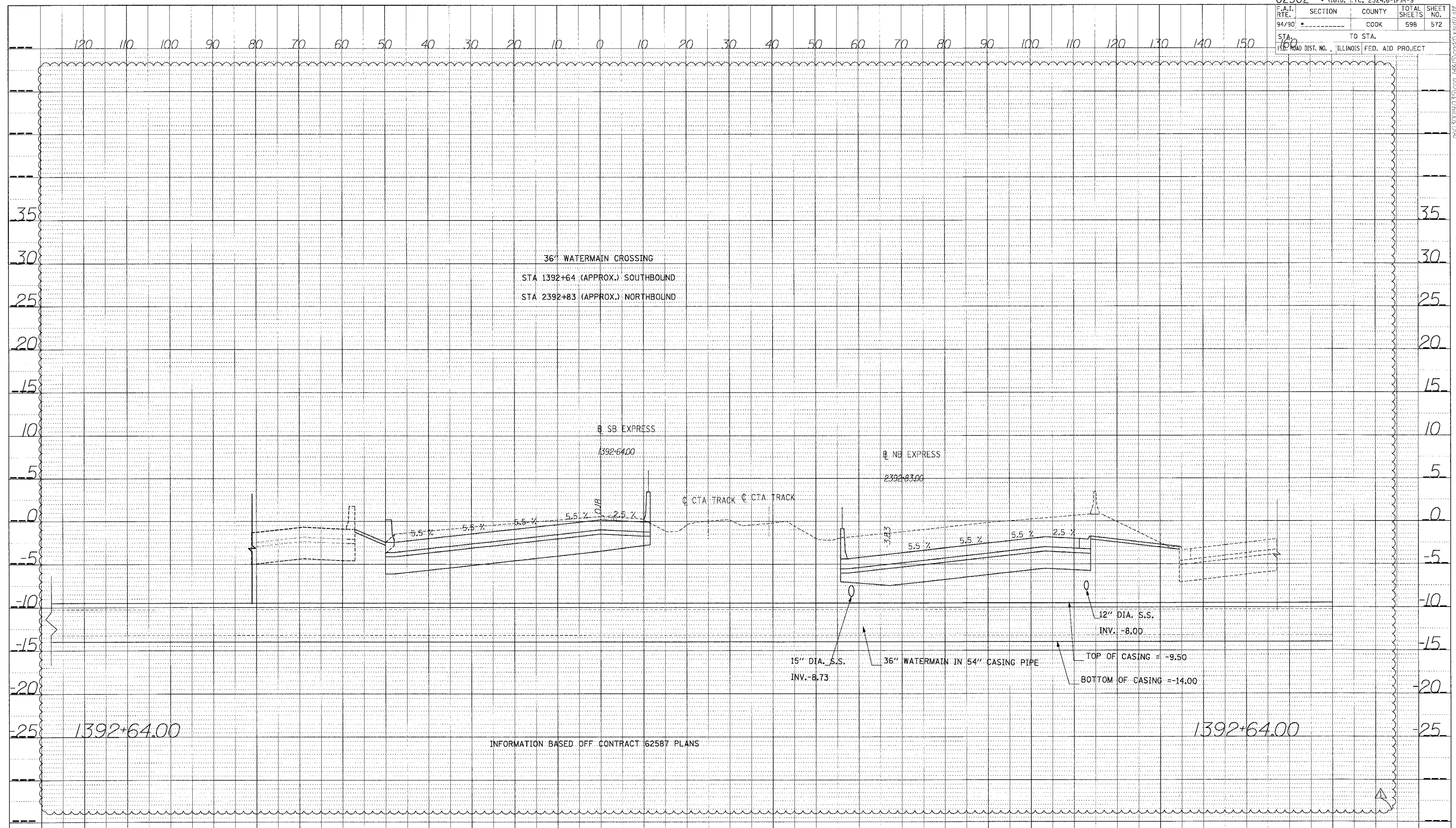
Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EKCORP.COM

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DATE: _____ BY: _____
 CHECKED: _____
 DRAWN: _____
 IN CHARGE: _____
 PROJECT: _____
 SHEET: _____
 NOTE BOOK NO.: _____
 STRUCTURE NOTATION: _____



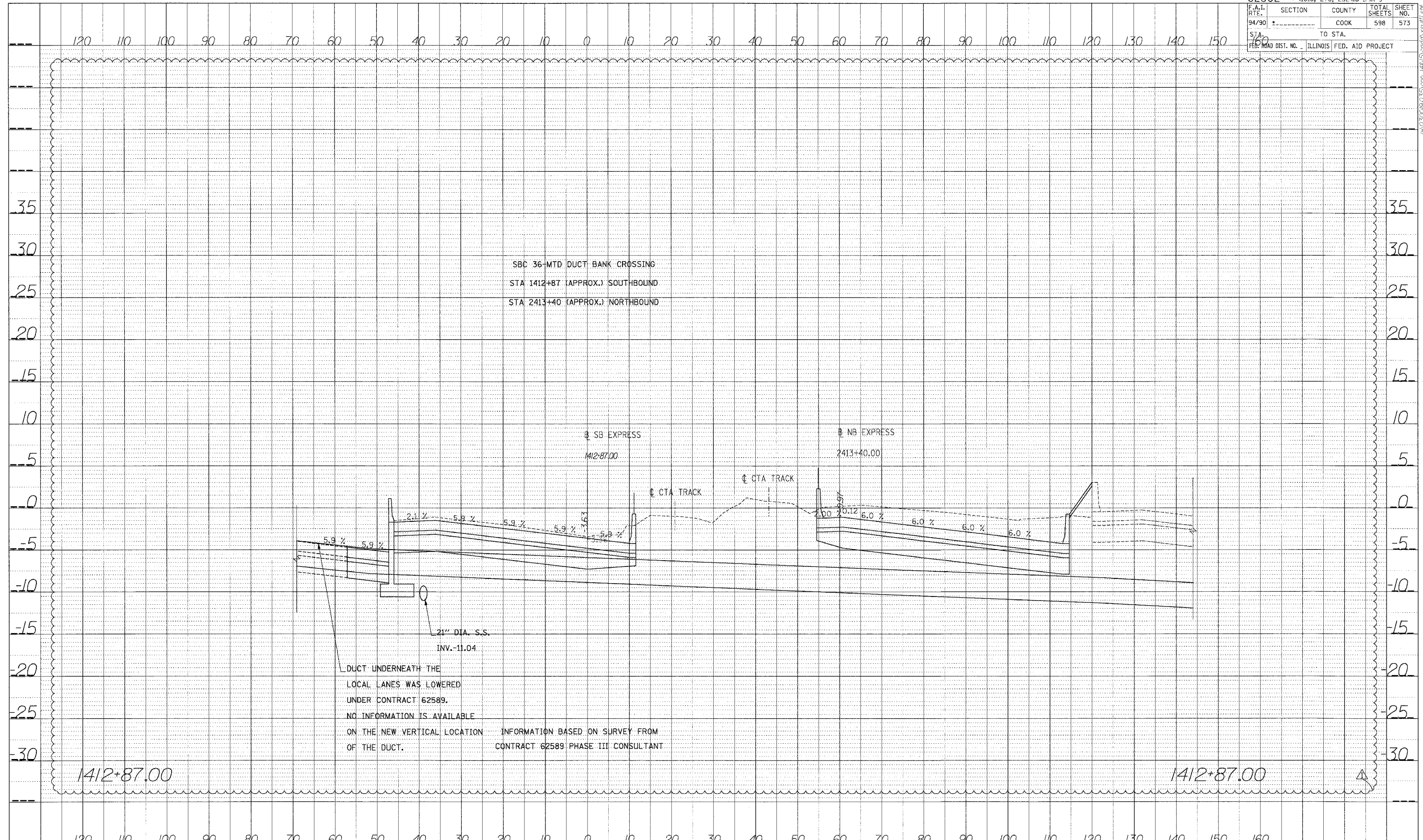
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INFORMATION BASED OFF CONTRACT 62587 PLANS

PROJ. ILL.	SUBMITTED	DATE
NOTE BOOK	PLANT CHECKED	
	BY	
	NO.	
	STRUCTURE NOTATION CHFD	

62302 • (1818, ETC., 2324.6-IPR-9)				
P.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	573
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

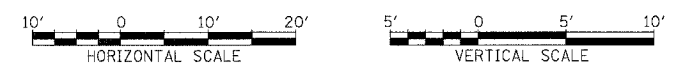


PROFILE	SEWER	DATE
NOTE BOOK	NO. AND REVISIONS	
STRUCTURE	NOTATIONS	

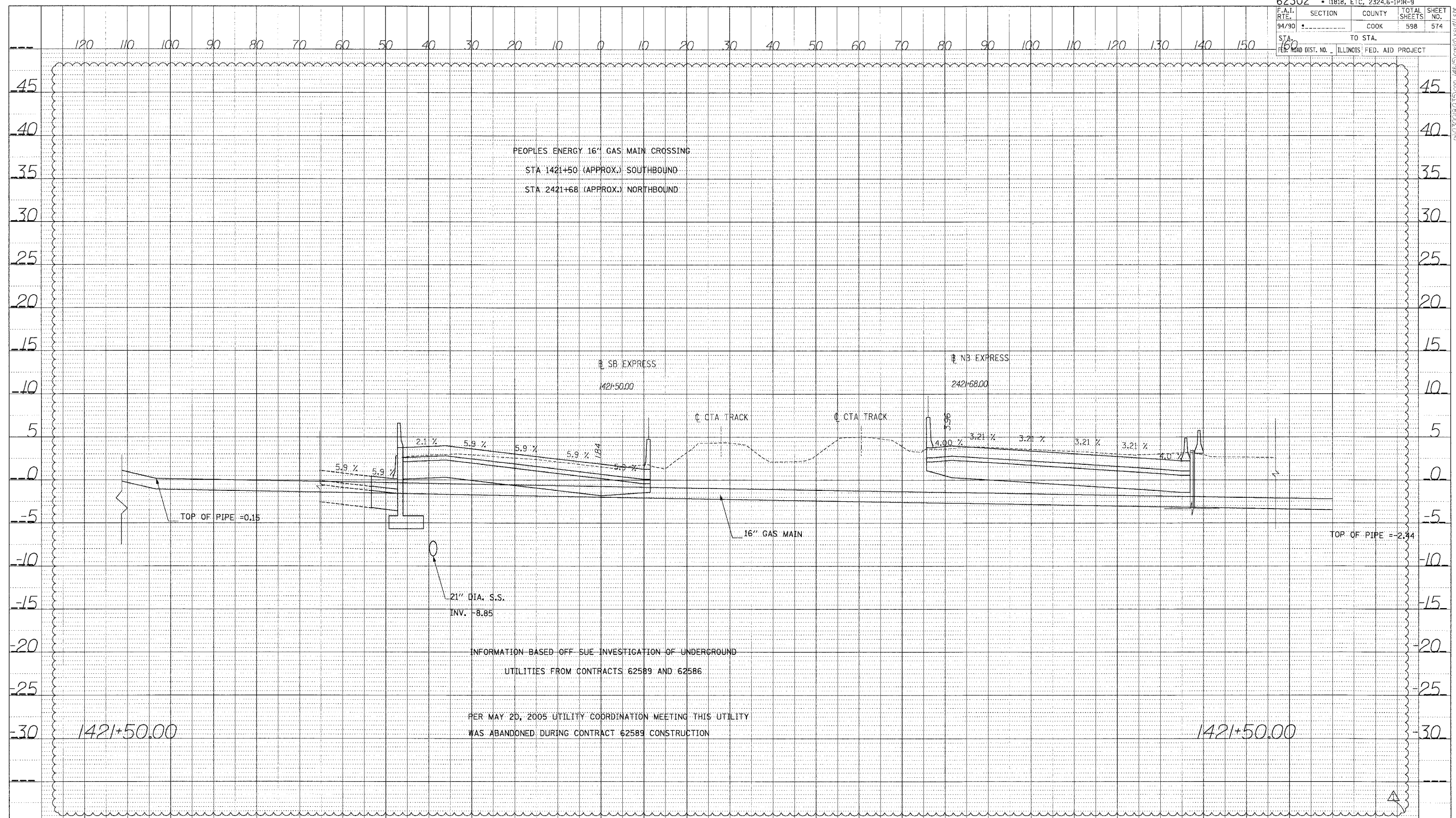
DUCT UNDERNEATH THE LOCAL LANES WAS LOWERED UNDER CONTRACT 62589. NO INFORMATION IS AVAILABLE ON THE NEW VERTICAL LOCATION OF THE DUCT. INFORMATION BASED ON SURVEY FROM CONTRACT 62589 PHASE III CONSULTANT

Edwards AND Kelcey

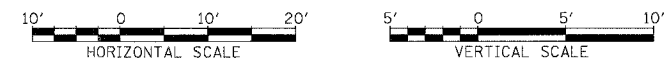
ONE NORTH FRANKLIN
CHICAGO, IL 60606
PHONE: (312) 251-3000
FAX: (312) 251-3015
WEB: WWW.EKCORP.COM



STA.

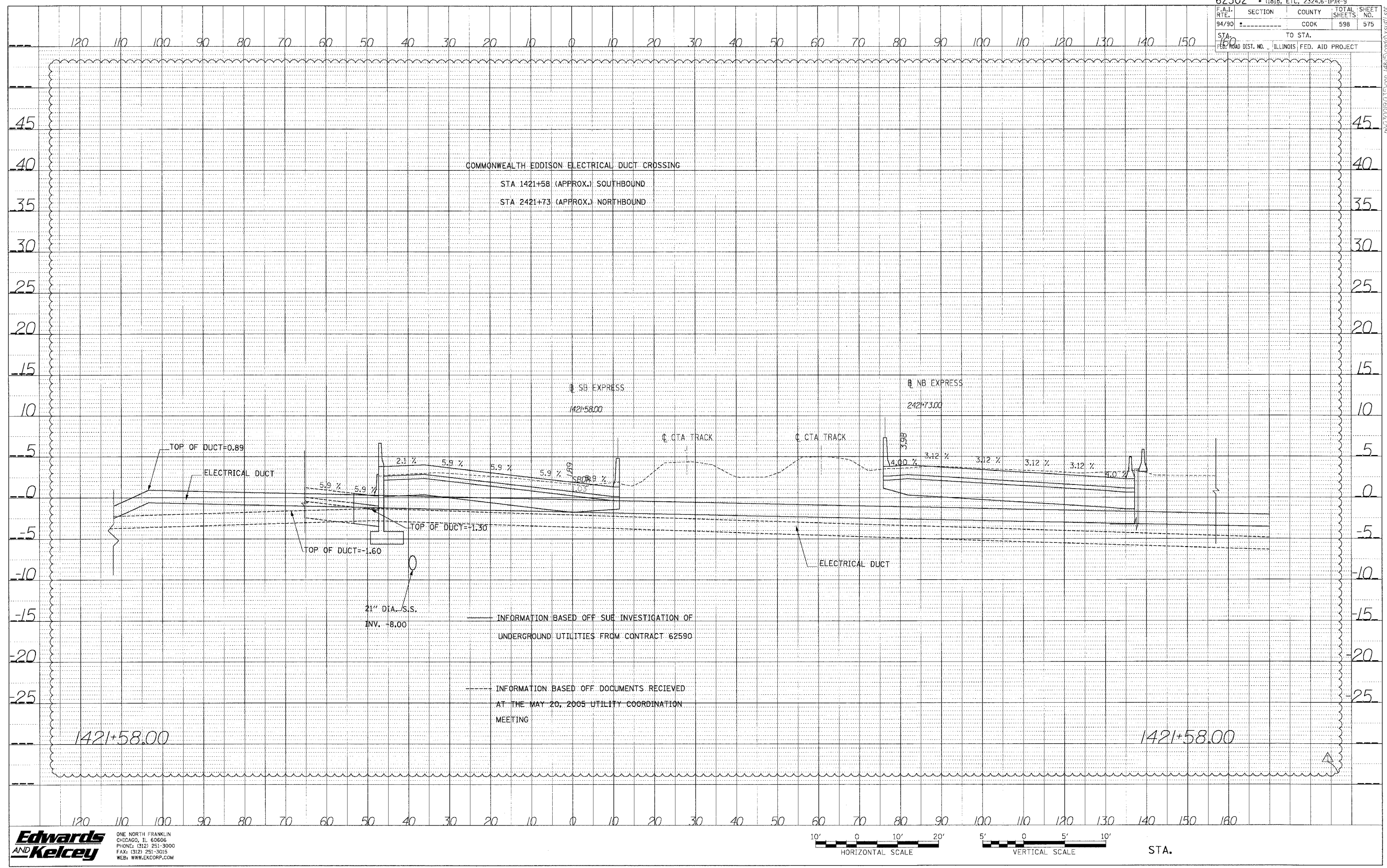


PROFILE	DATE
BY	
NO. 1	
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NO. 10	

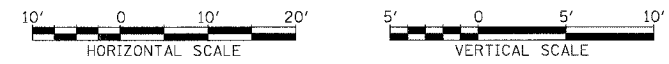
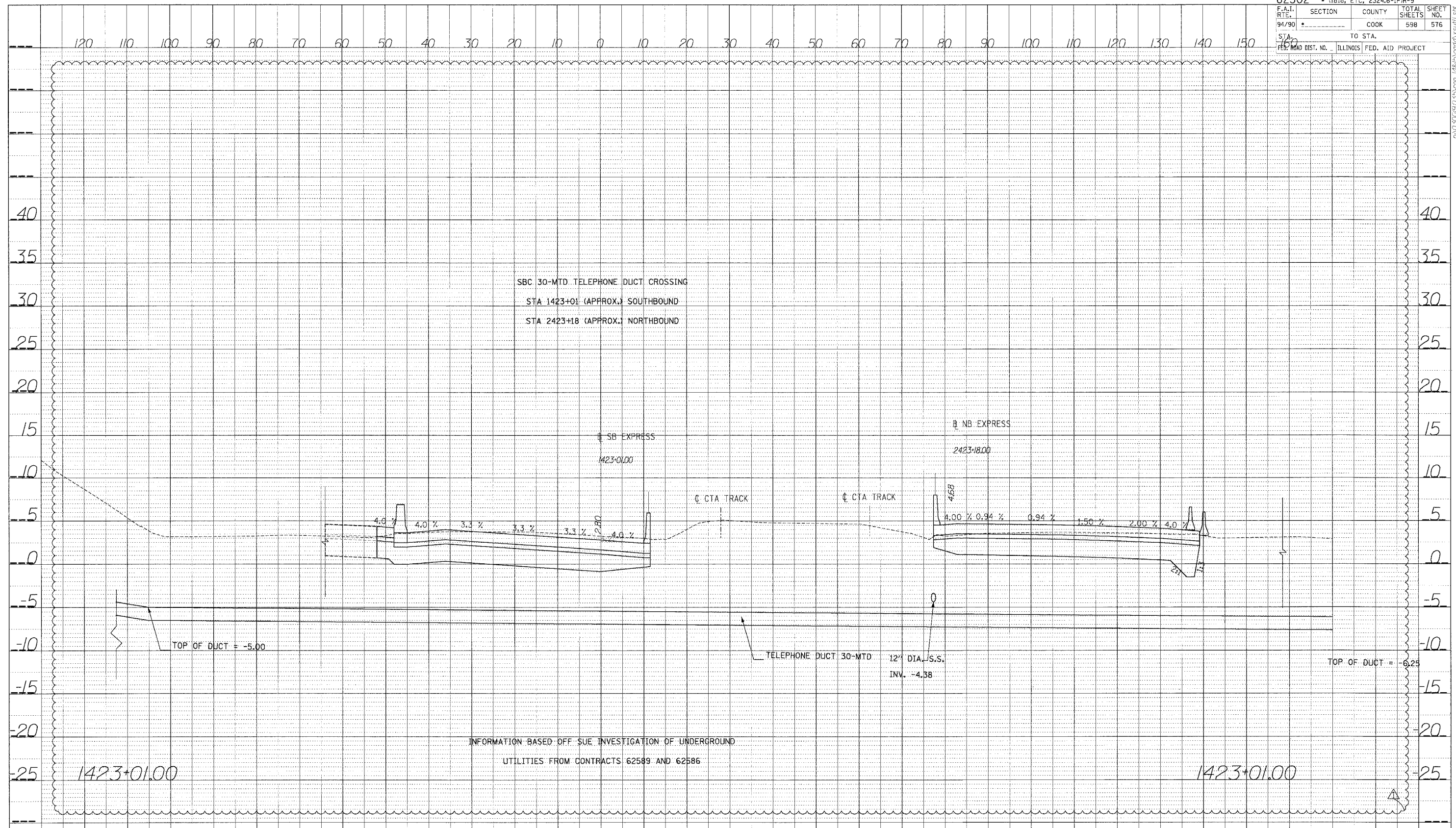


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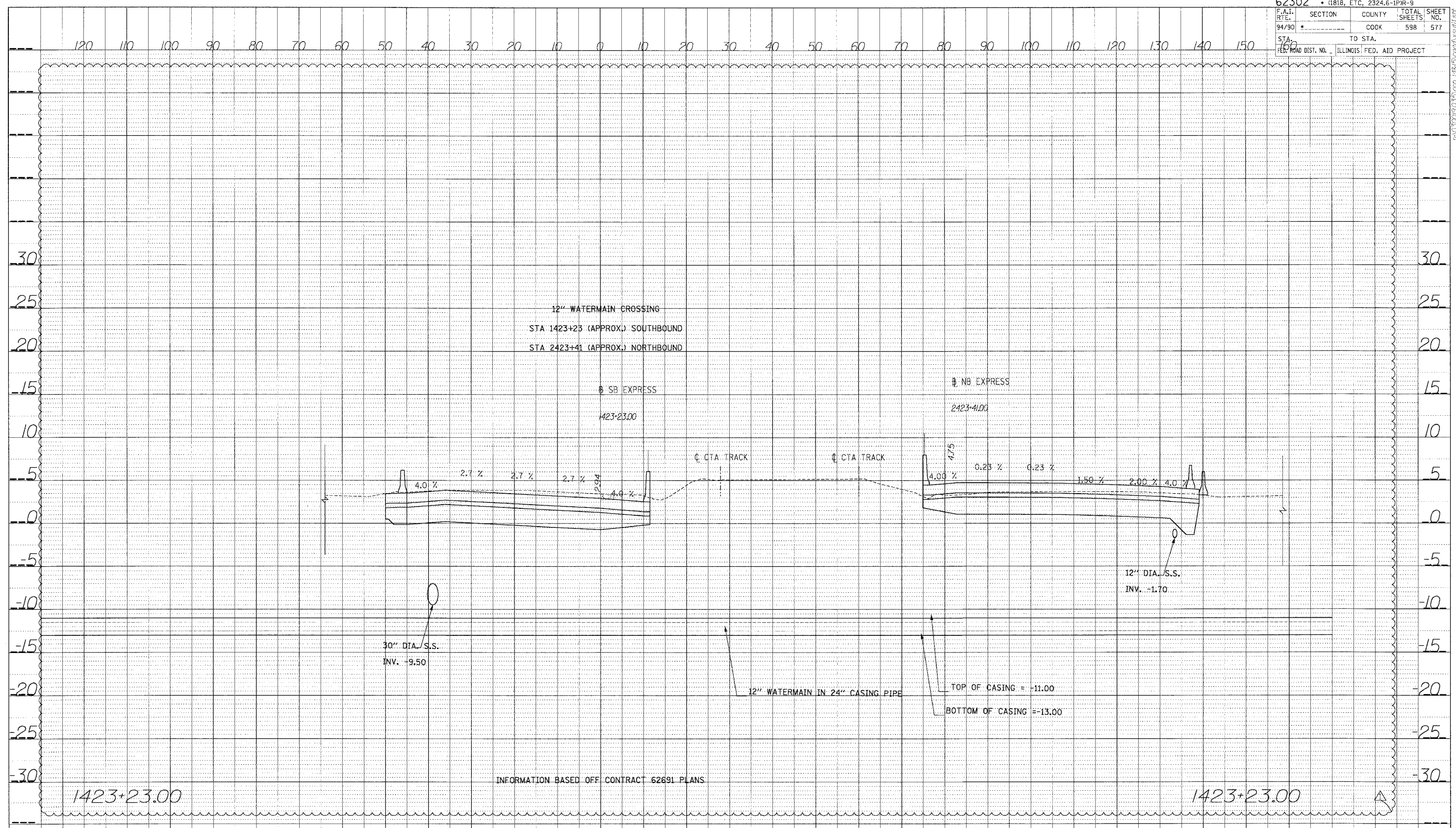
DATE	
BY	
PROF. E	
REVISED	
PLATTED	
NOTE BOOK	
NO.	



PROFILE SUBMITTED BY DATE
 DRAWN BY DATE
 CHECKED BY DATE
 IN CHARGE BY DATE
 NO. OF SHEETS TOTAL SHEETS

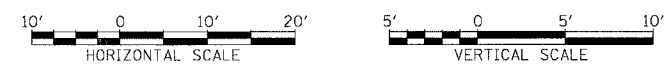


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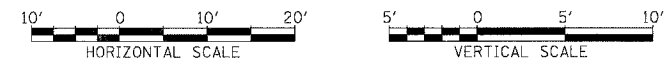
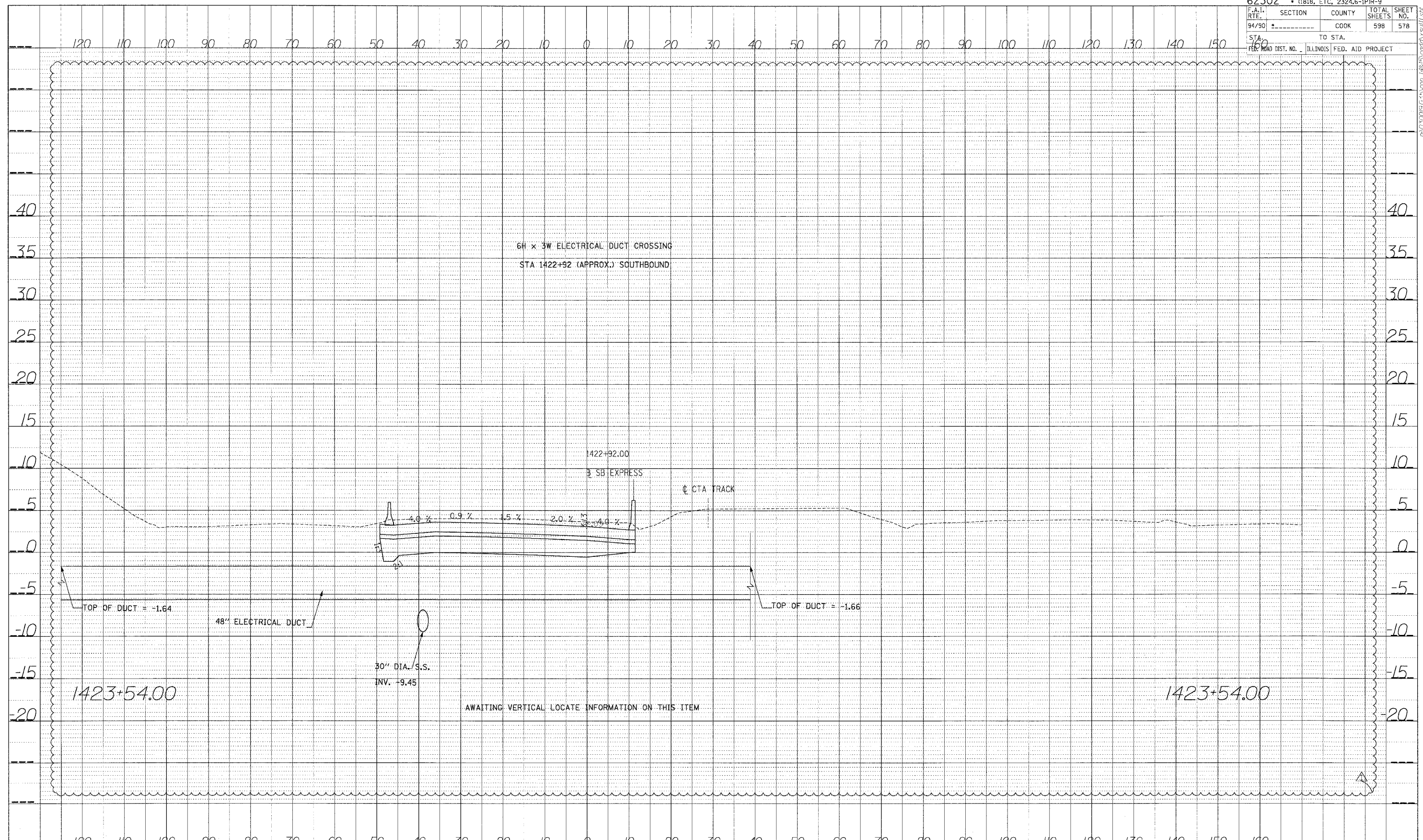
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 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____

INFORMATION BASED OFF CONTRACT 62691 PLANS



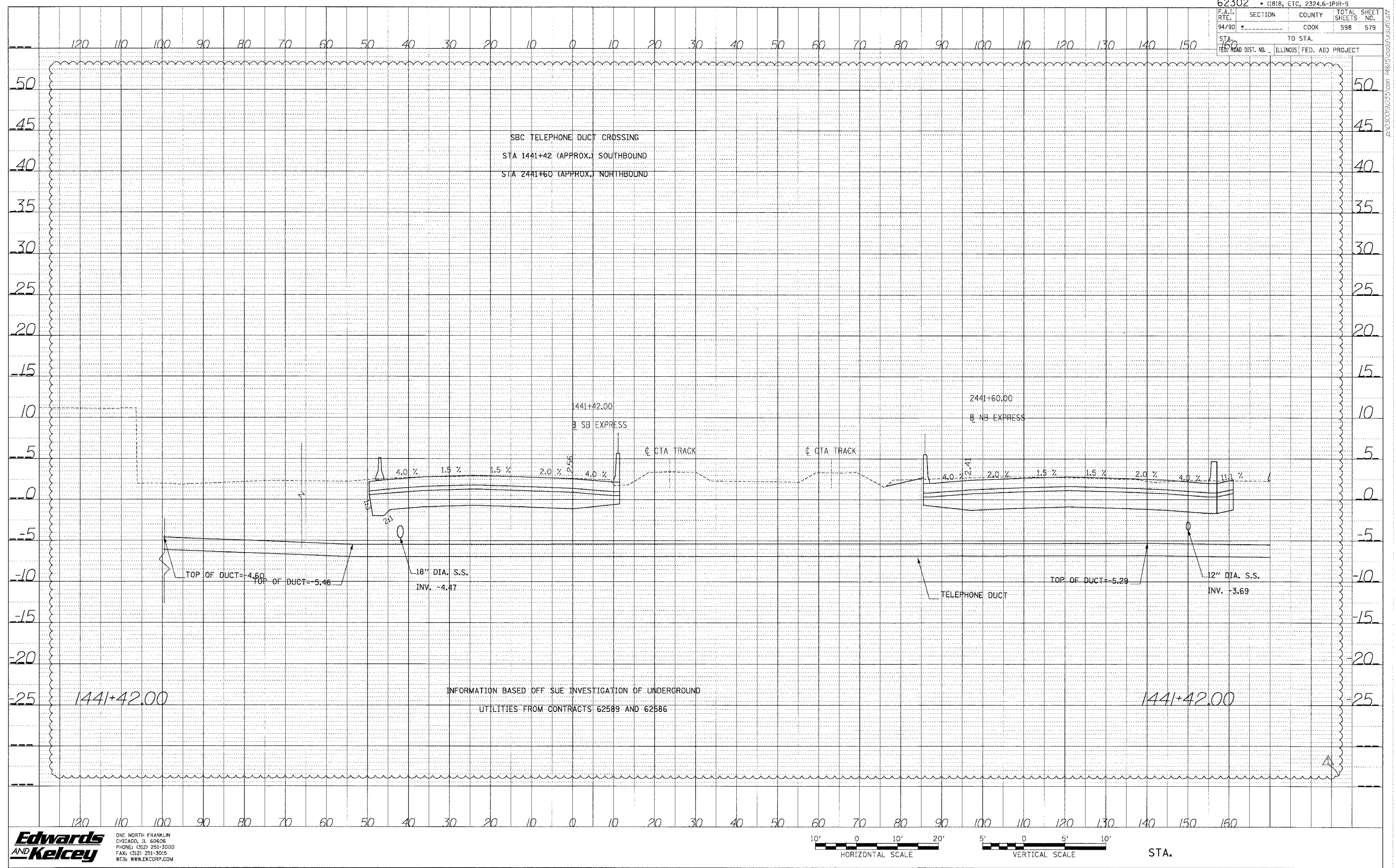
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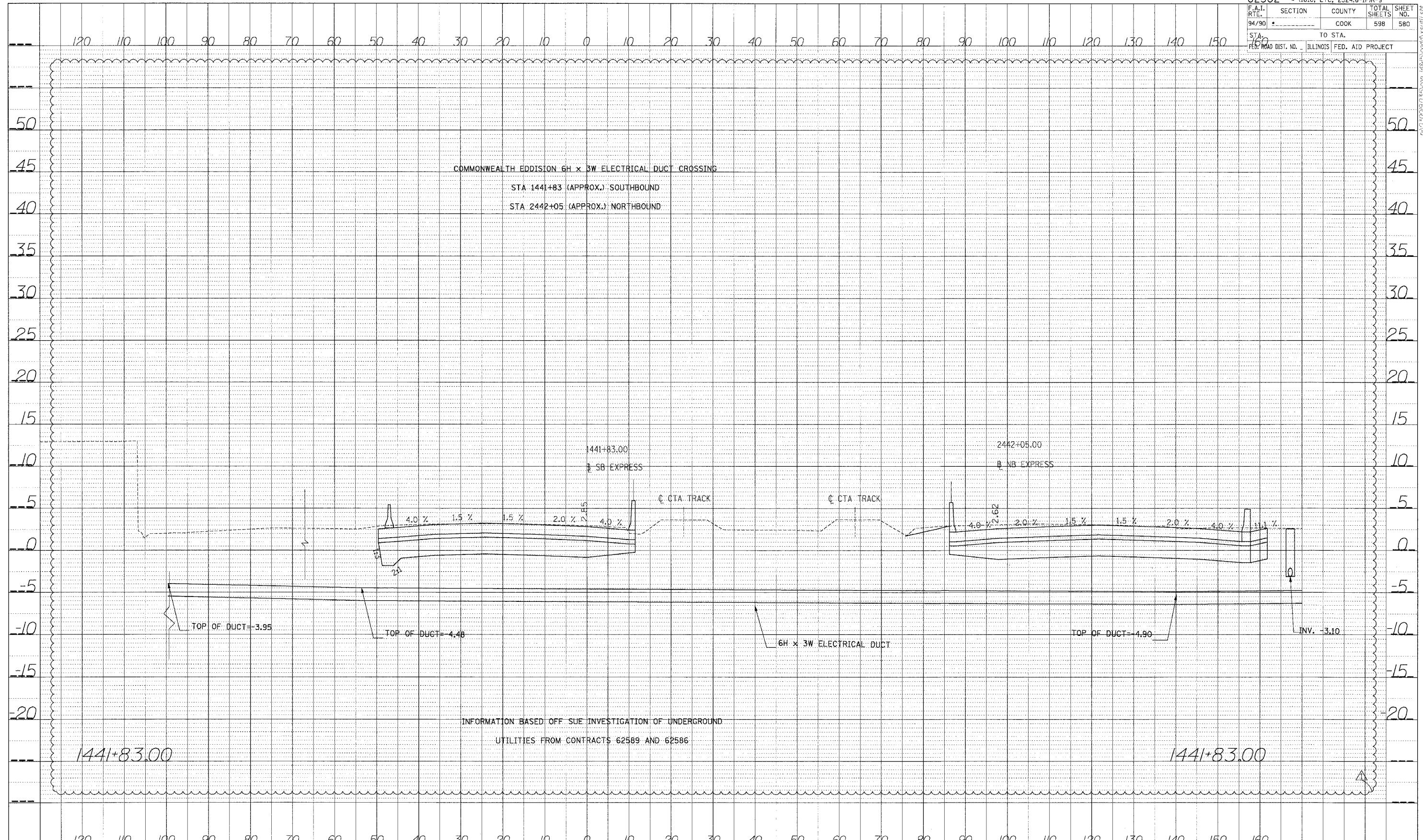


STA.

DATE
 BY
 SURVEYER
 PLOTTED
 CHECKED
 NOTE BOOK
 NO.
 STRUCTURE NOTATIONS CHFD

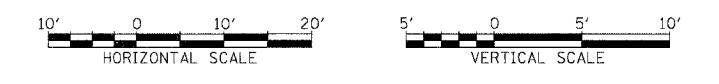


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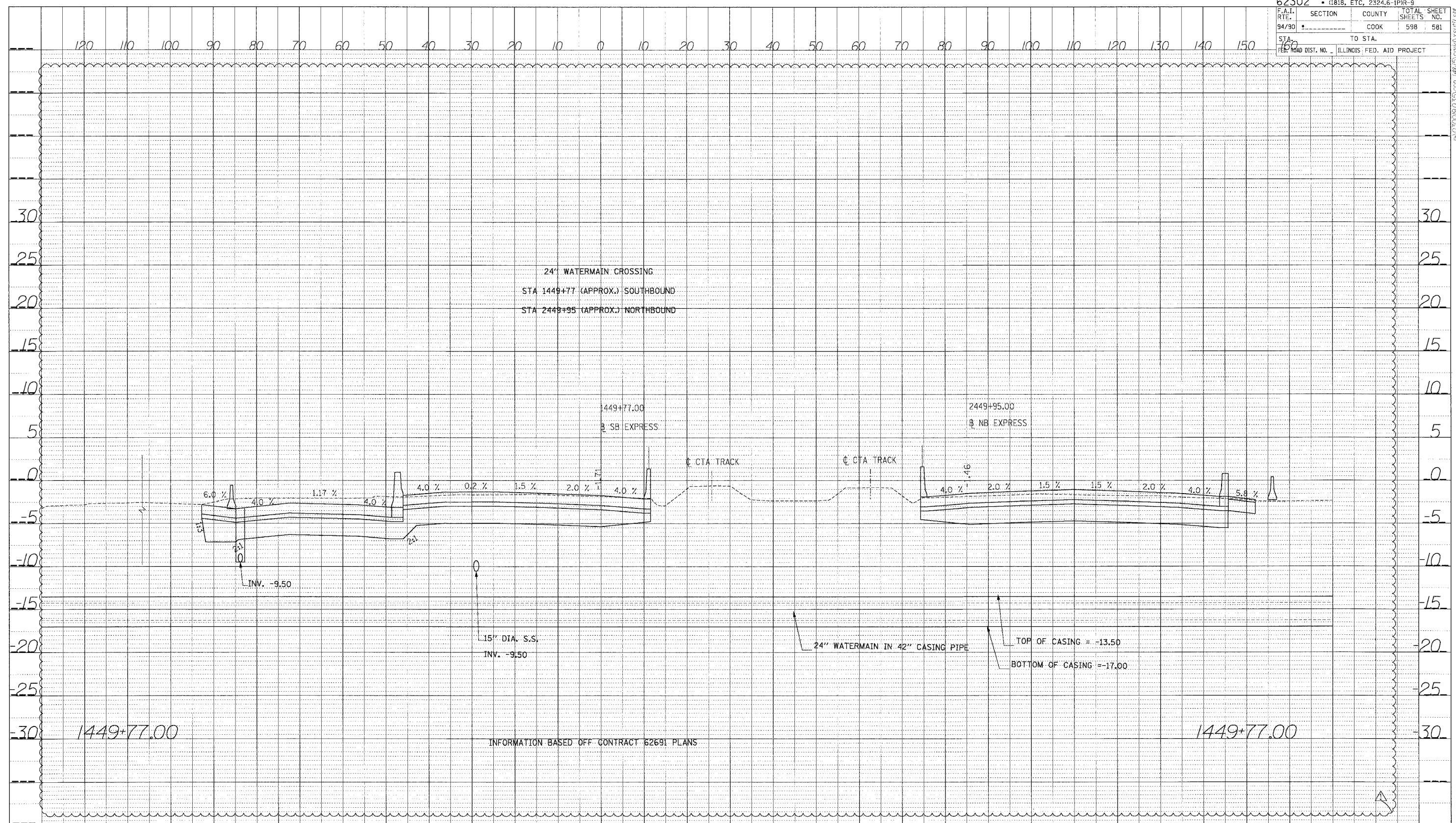
DATE	
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PROJECT	
PROJ. NO.	
NO. OF SHEETS	
SHEET NO.	
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PROJ. NO.	
NO. OF SHEETS	
SHEET NO.	

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 CHICAGO, IL 60606
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PROFILE SURVEYED BY DATE
 PLOTTED CHECKED BY
 NOTE BOOK NO. DATE
 STRUCTURE NOTATION CARD



1449+77.00

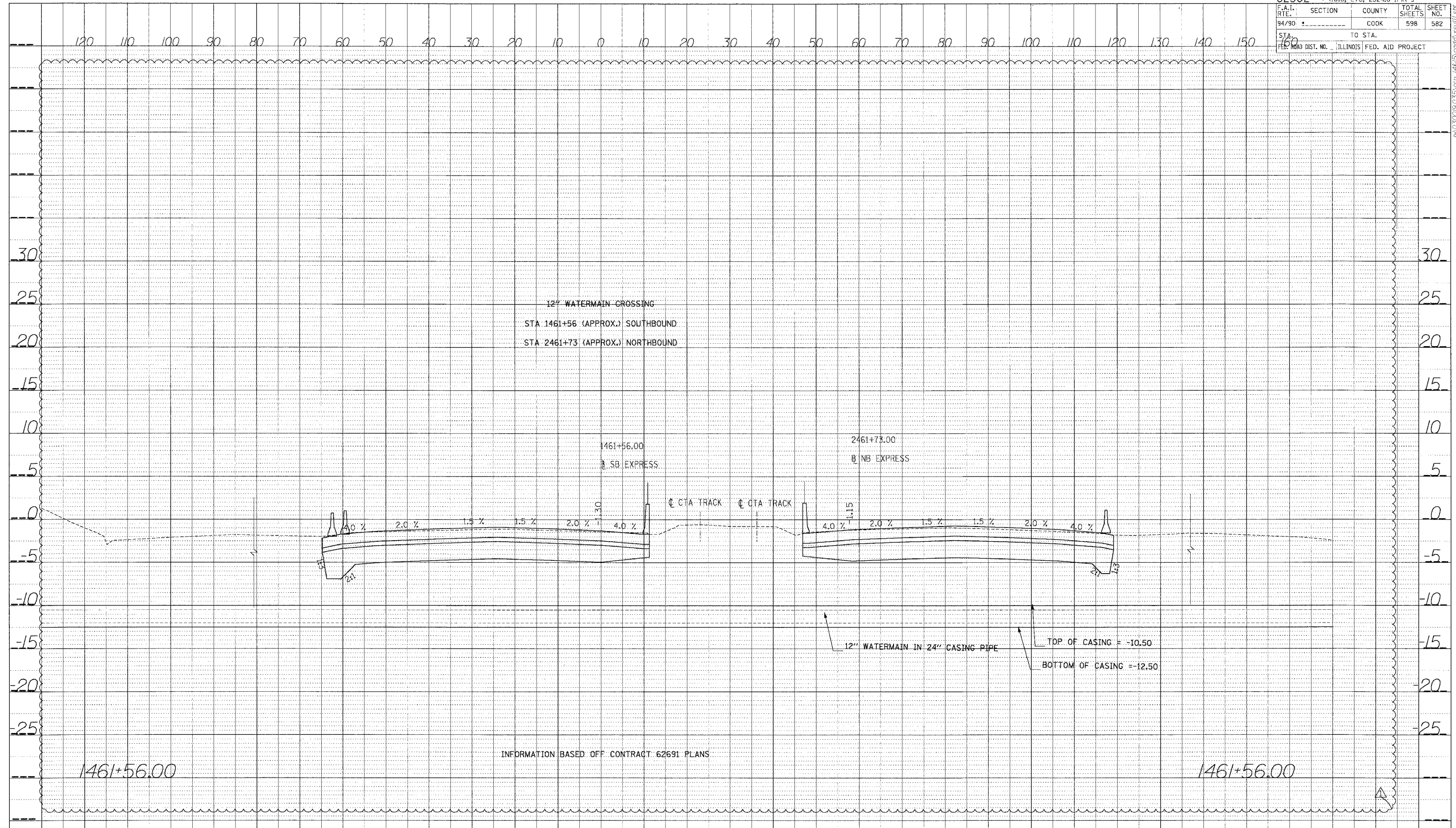
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INFORMATION BASED OFF CONTRACT 62691 PLANS

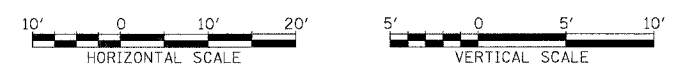


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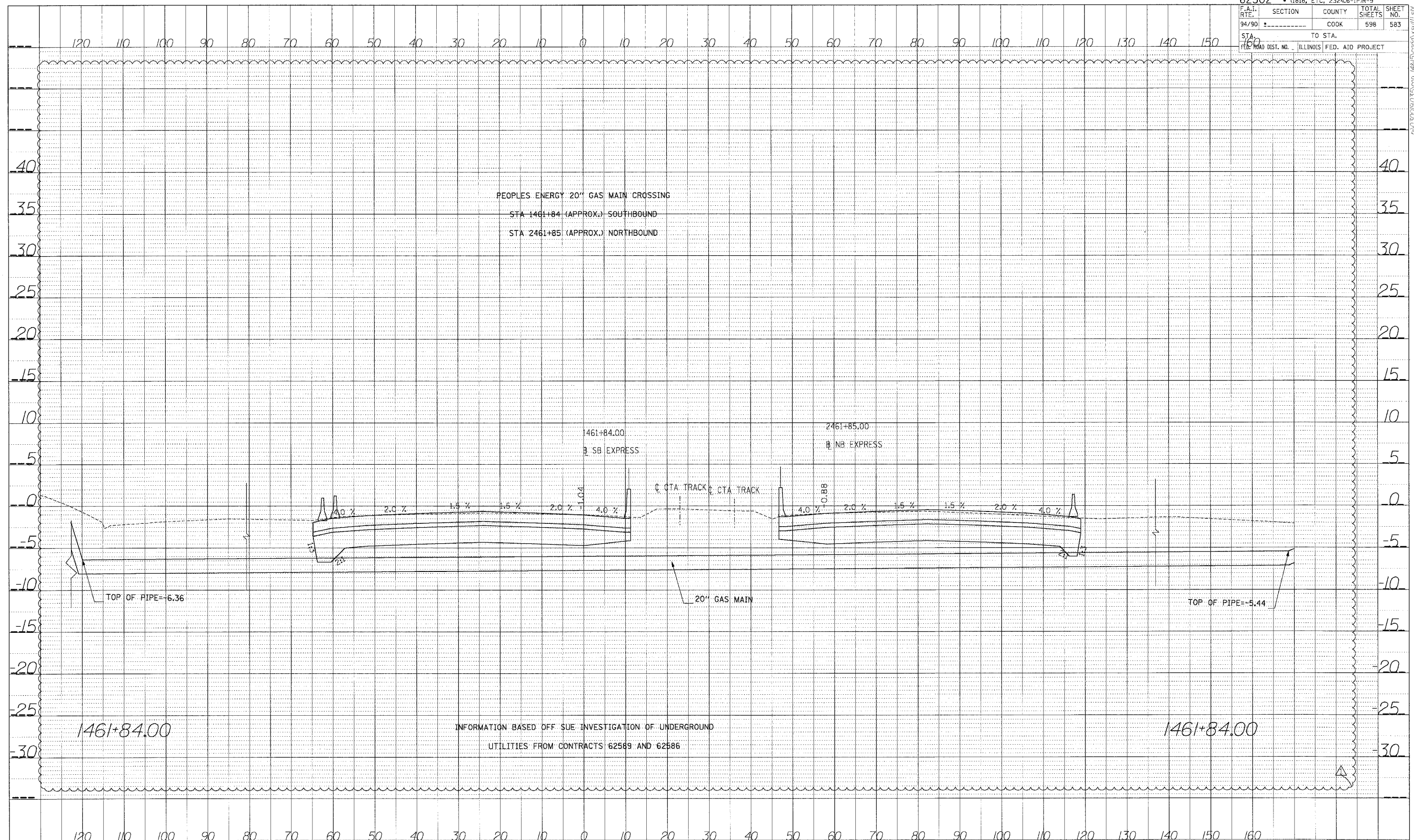
INFORMATION BASED OFF CONTRACT 62691 PLANS



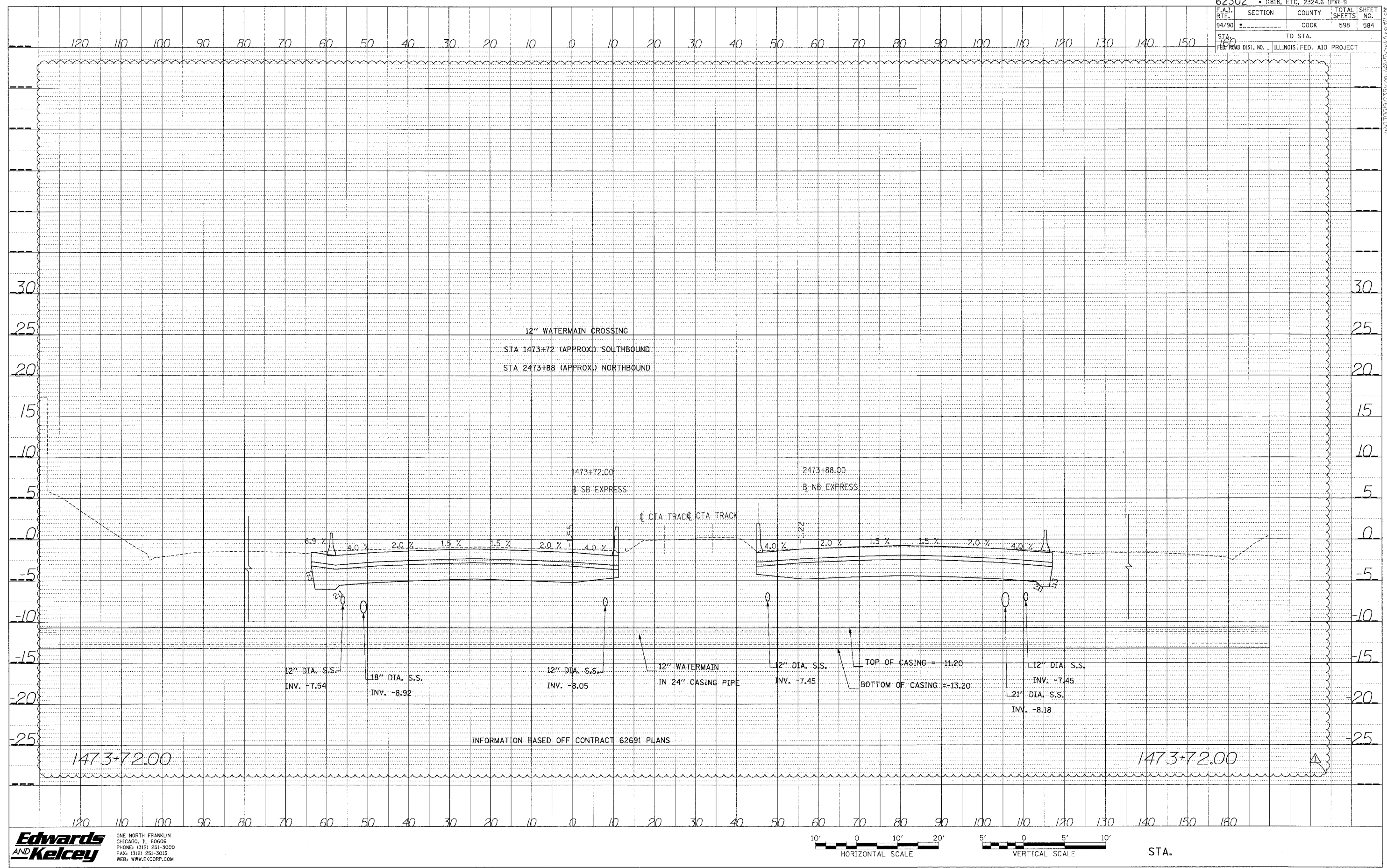
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62302 • (1818, ETC, 2324.6-1PIR-9			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
94/90		COOK	598
STA. 160	TO STA.		SHEET NO. 583
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

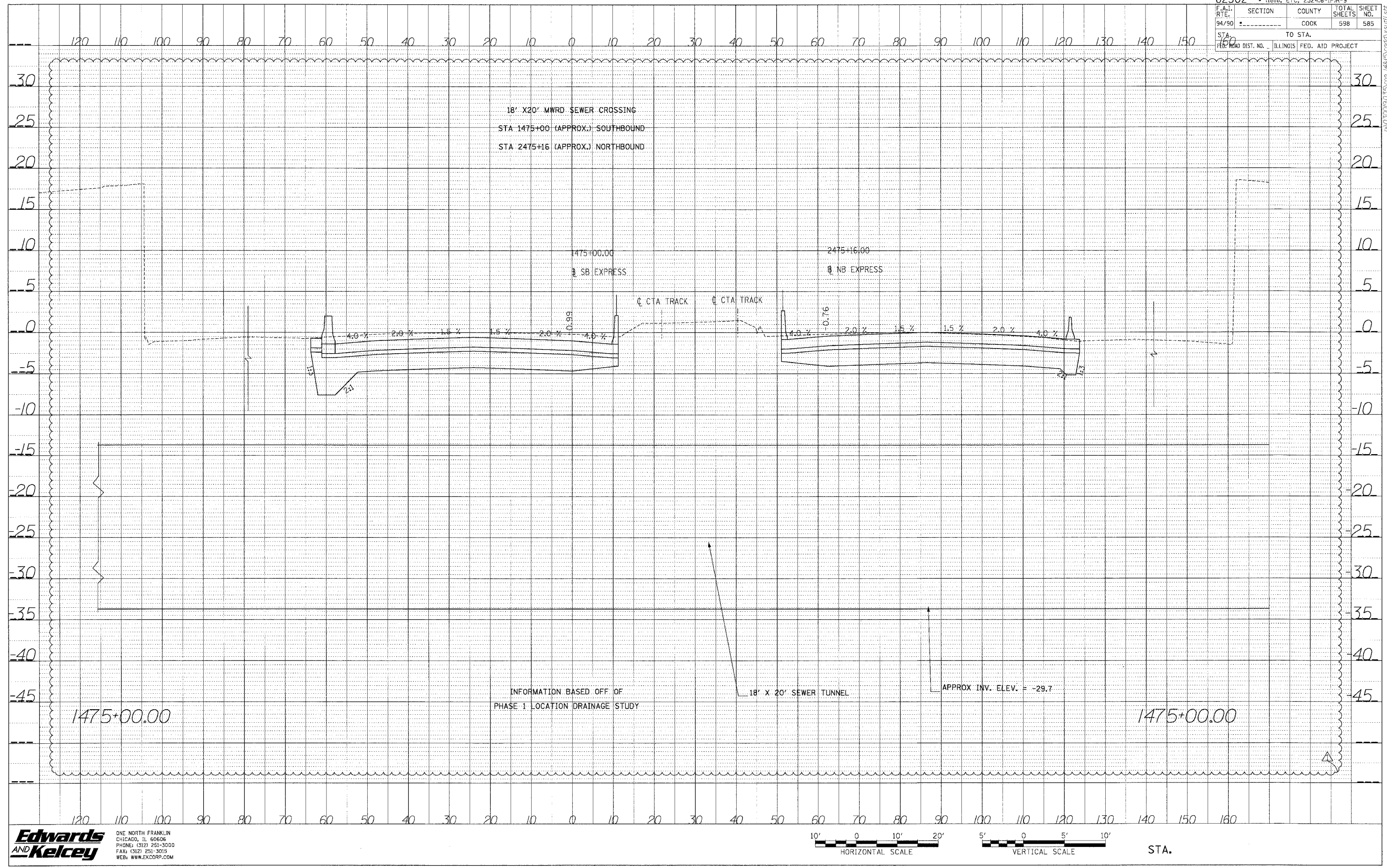
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 STRUCTURE NOTATION CIND



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DATE	
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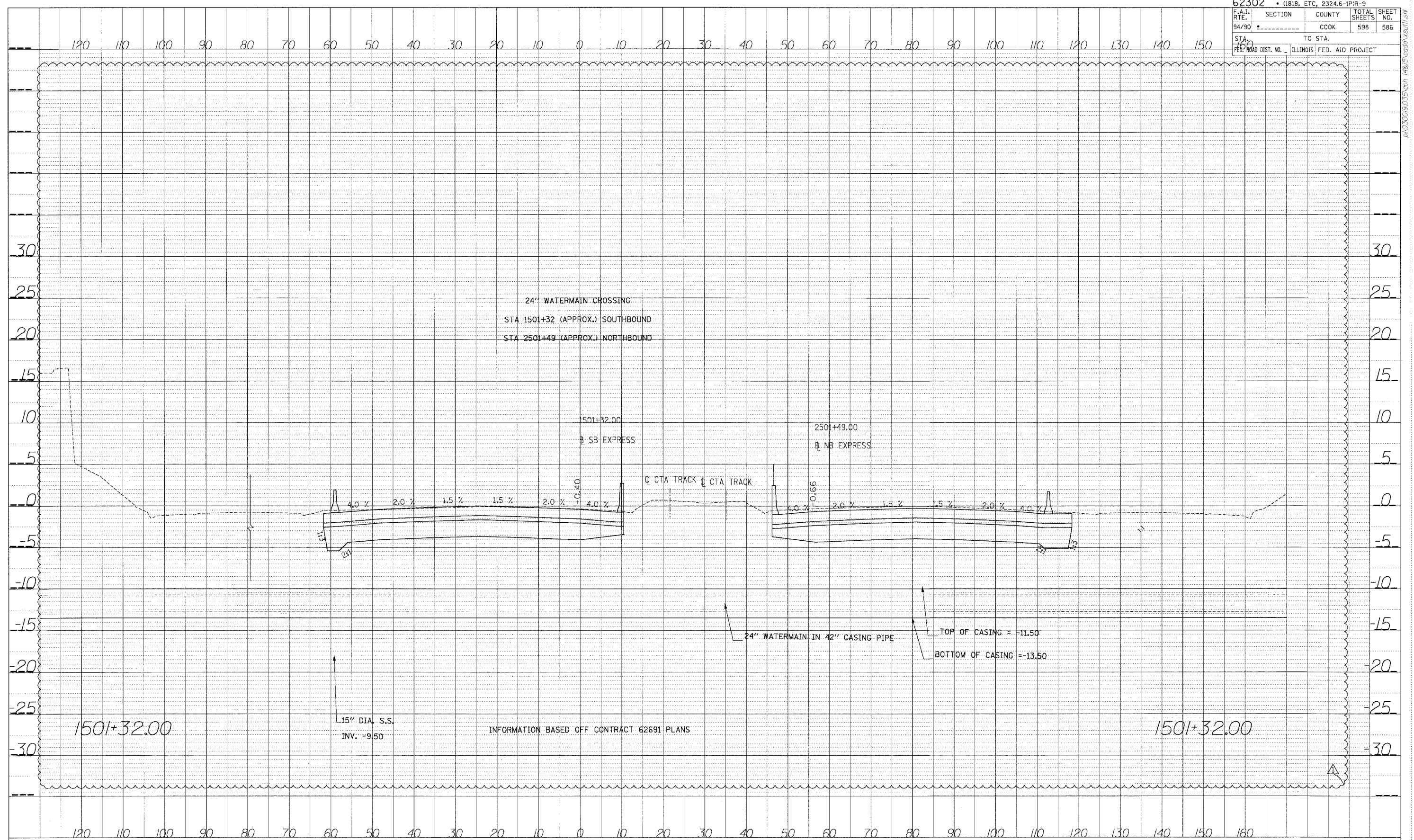
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F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	COOK	598	585
STA. TO STA.		ILLINOIS FED. AID PROJECT	
160			



PROFILE	REVIEWED	DATE
NOTE BOOK	PLATED	
NO.	CHECKED	
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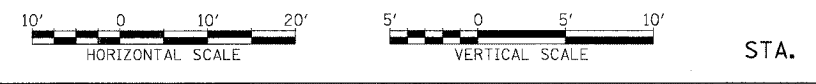
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 FAX: (312) 261-3015
 WEB: WWW.EKCORP.COM

62302 • (1818, ETC, 2324.6-1PR-9				
FAH. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	586
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



DATE	
BY	
PROJECT	
DESIGNED BY	
CHECKED BY	
IN CHARGE BY	
NOTE BOOK NO.	
STRUCTURE NOTATION	

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INFORMATION BASED OFF CONTRACT 62691 PLANS

1501+32.00

1501+32.00

15" DIA. S.S.
 INV. -9.50

24" WATERMAIN IN 42" CASING PIPE
 TOP OF CASING = -11.50
 BOTTOM OF CASING = -13.50

24" WATERMAIN CROSSING
 STA 1501+32 (APPROX.) SOUTHBOUND
 STA 2501+49 (APPROX.) NORTHBOUND

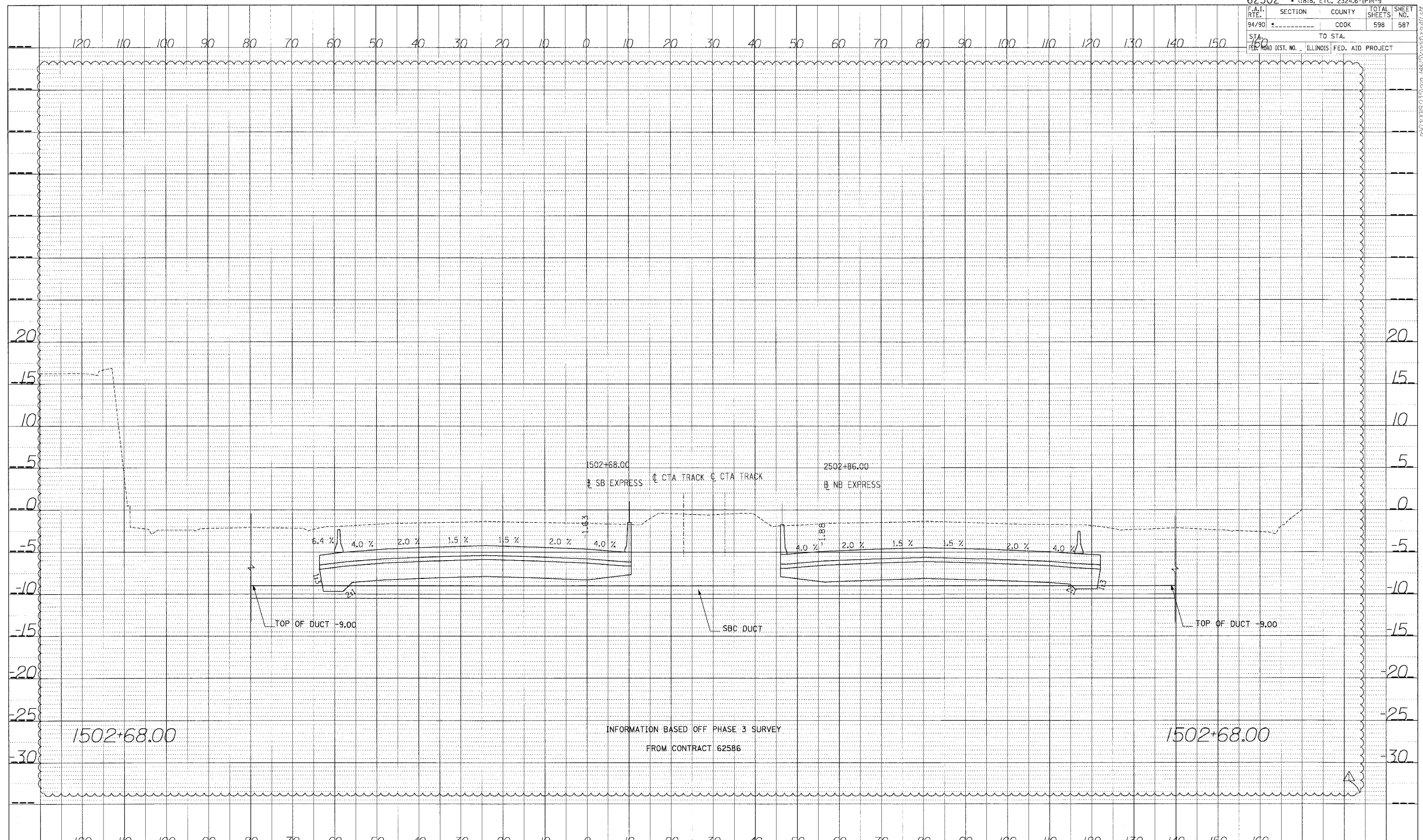
1501+32.00
 SB EXPRESS

2501+49.00
 NB EXPRESS

CTA TRACK CTA TRACK

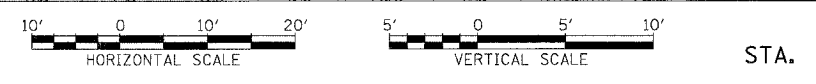
4.0% 2.0% 1.5% 1.5% 2.0% 0.40% 4.0%

4.0% 2.0% 1.5% 1.5% 2.0% 4.0%

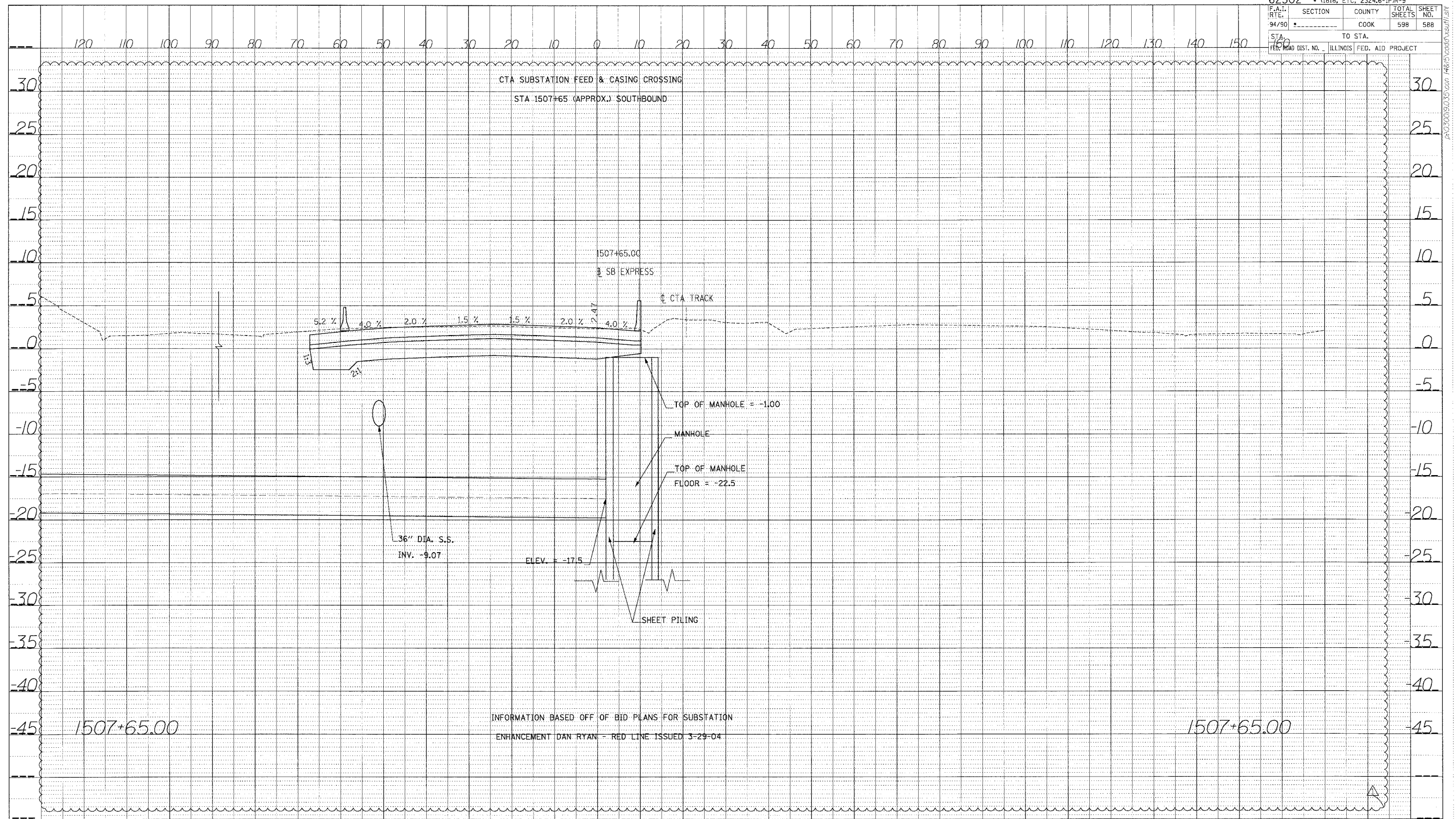


PROFILE NUMBERED BY DATE
 NOTED BY DATE
 NO. STRUCTURE IDENTIFY SHEET

Edwards AND Kelcey
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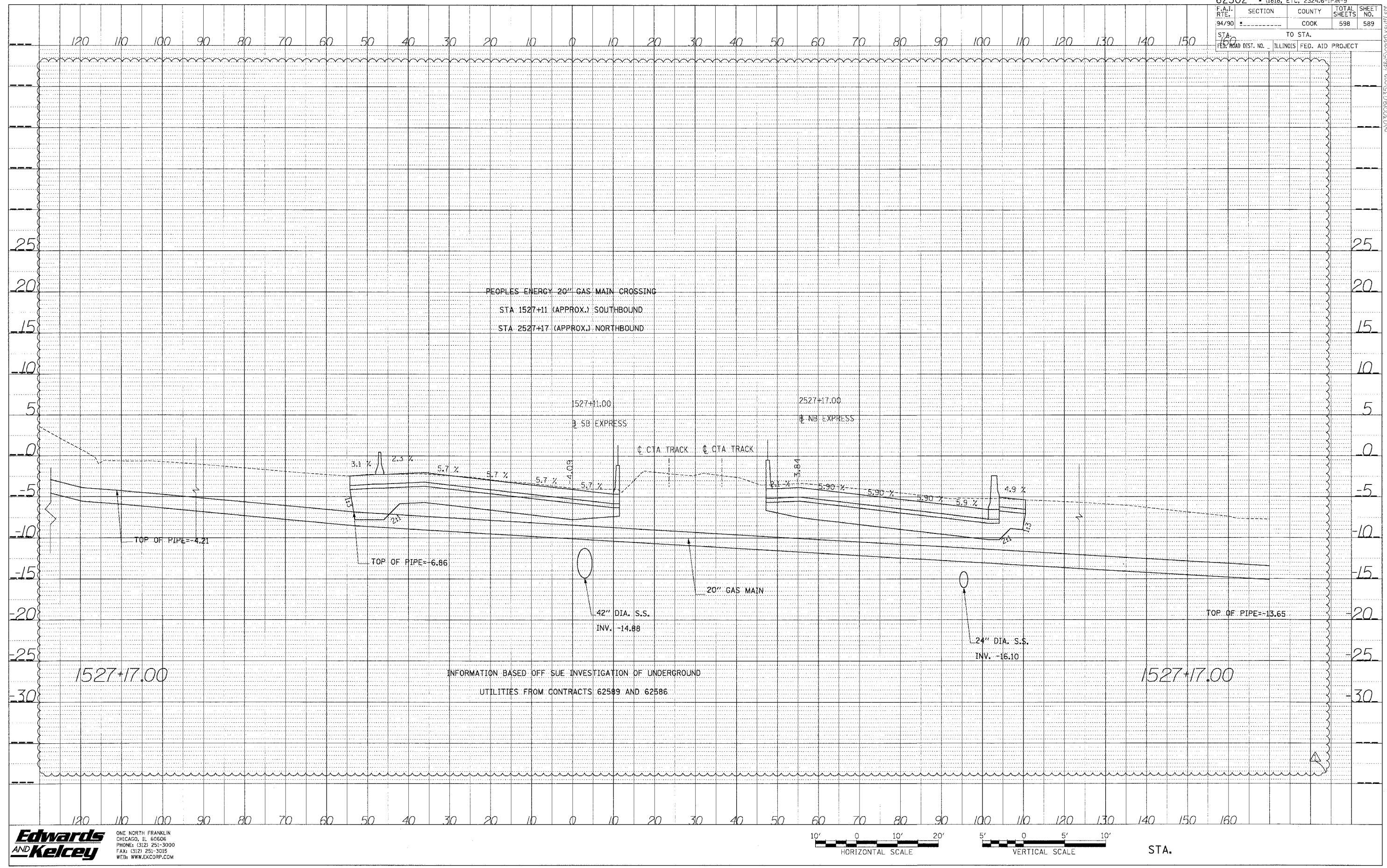
62302 • (181B, ETC. 2324.6-1P1R-9				
F.A.I. RTE. 94/90	SECTION	COUNTY	TOTAL SHEETS 598	SHEET NO. 588
STA. 150	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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PLOTTED	CHECKED	
NOTE BOOK	DATE NOTED	
NO.	STRUCTURE NOTATION	GRID

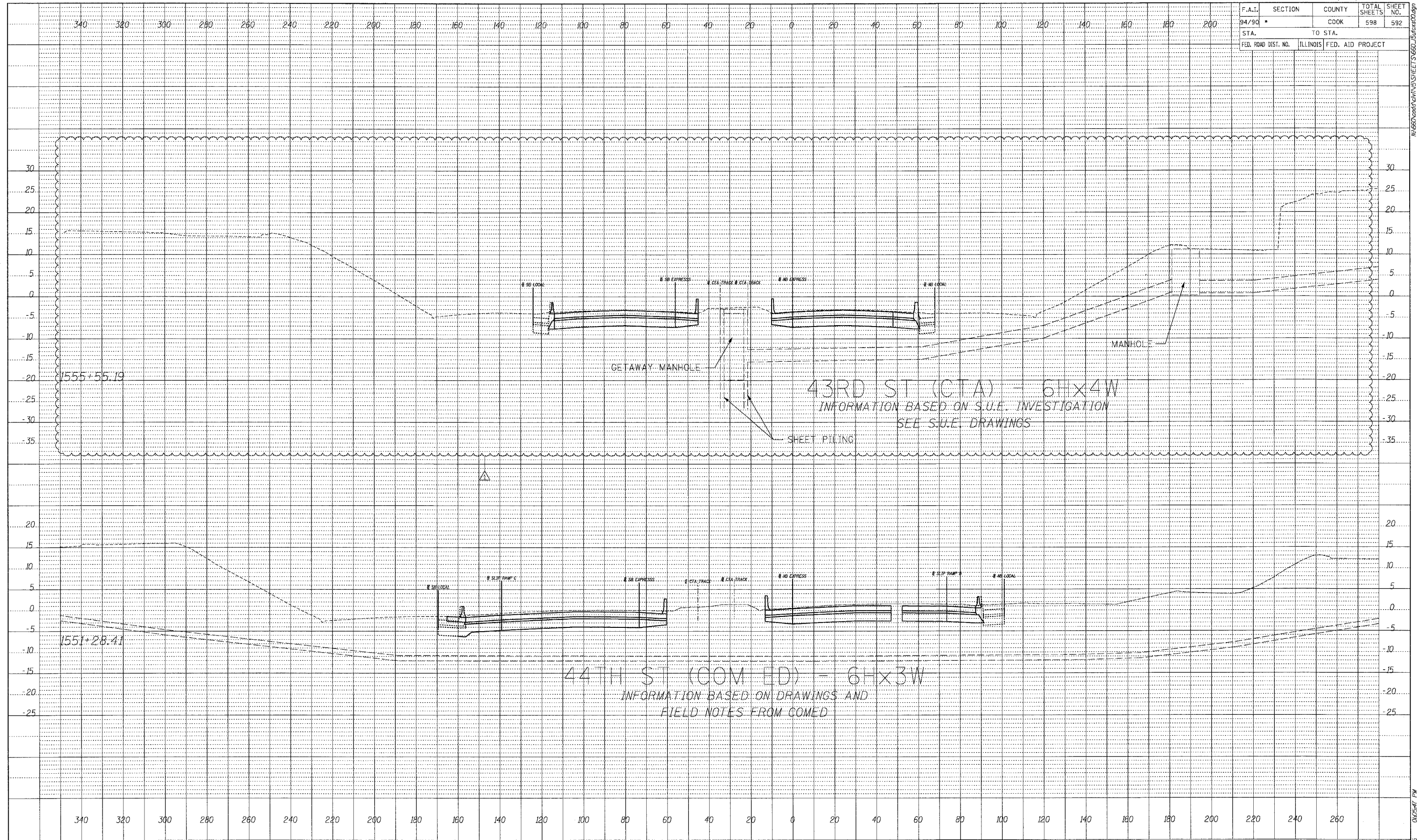
INFORMATION BASED OFF OF BID PLANS FOR SUBSTATION
 ENHANCEMENT DAN RYAN - RED LINE ISSUED 3-29-04

PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTED BY
 STRUCTURE NOTATIONS CHD



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/99	*	COOK	598	592
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

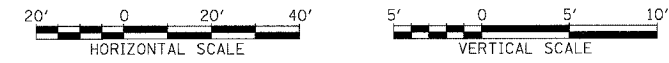
PROFILE	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
CHECKED	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	



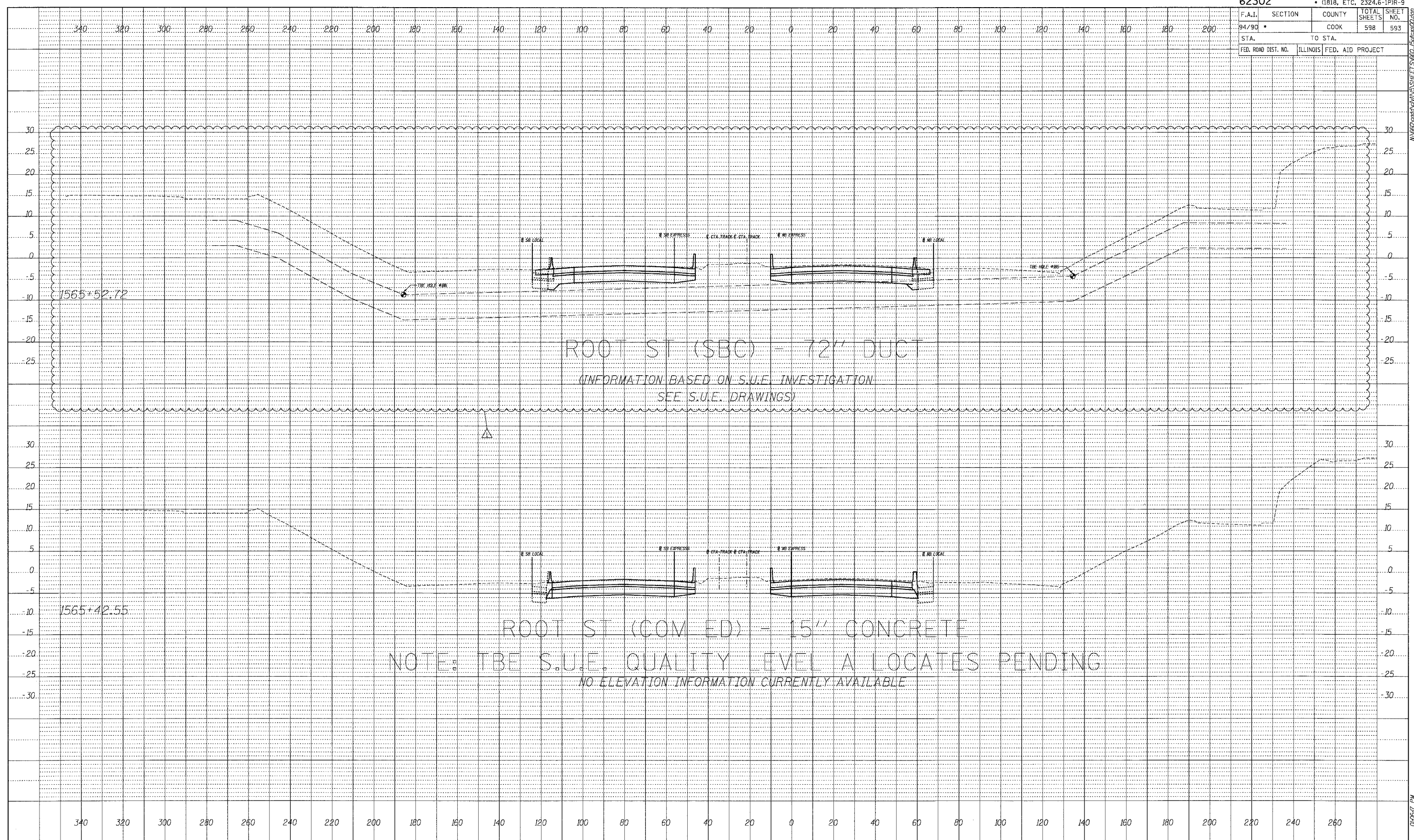
43RD ST (CTA) - 6Hx4W
 INFORMATION BASED ON S.U.E. INVESTIGATION
 SEE S.U.E. DRAWINGS

44TH ST (COM ED) - 6Hx3W
 INFORMATION BASED ON DRAWINGS AND
 FIELD NOTES FROM COMED

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 Chicago, Illinois
 312.228.0100
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STA. ---+--- TO STA. ---+---



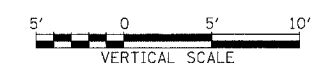
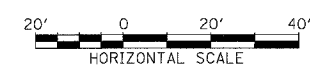
ROOT ST (SBC) - 12" DUC
 (INFORMATION BASED ON S.U.E. INVESTIGATION
 SEE S.U.E. DRAWINGS)

ROOT ST (COM ED) - 15" CONCRETE

NOTE: TBE S.U.E. QUALITY LEVEL A LOCATES PENDING
 NO ELEVATION INFORMATION CURRENTLY AVAILABLE

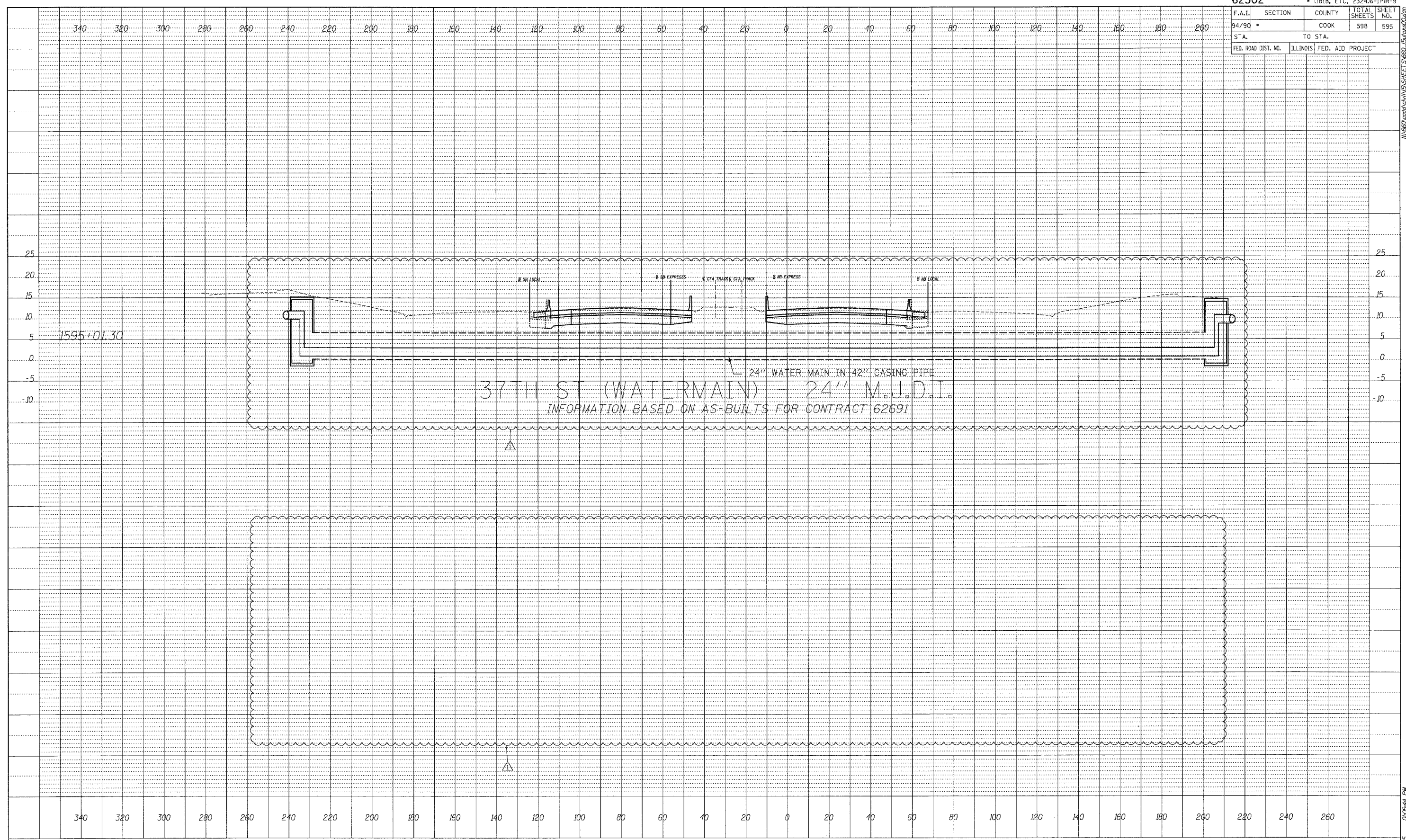
DATE	
BY	
PROFILER	
SURVEYED	
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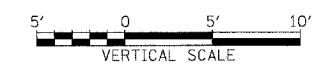
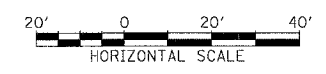
STA. ----+-- TO STA. ----+--

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	595
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



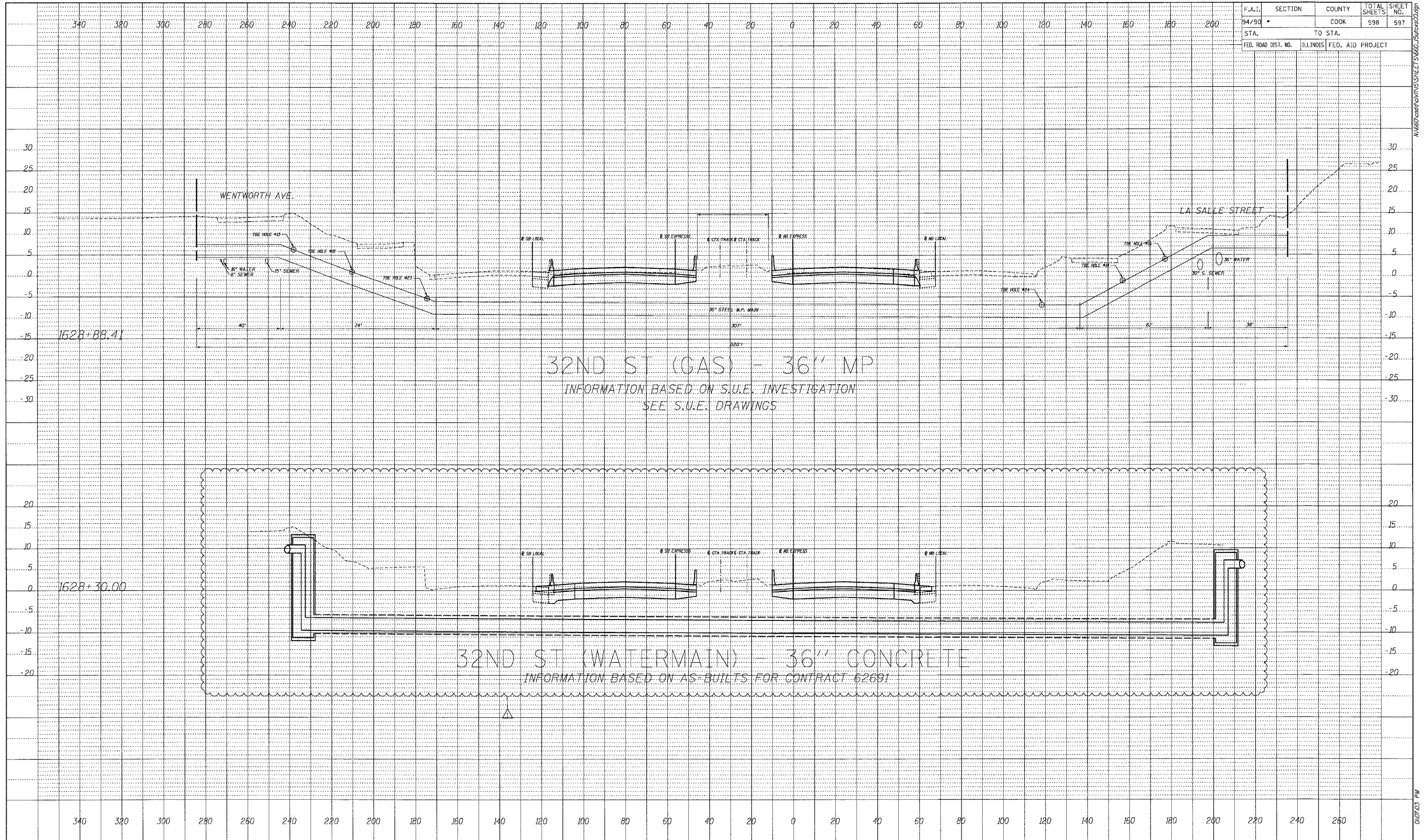
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STA. _____ TO STA. _____

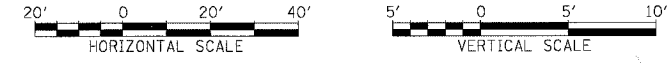
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	597
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		



BY	DATE

PROFILE SURVEYED	GRADES CHECKED	STRUCTURE NOTATIONS OK'D

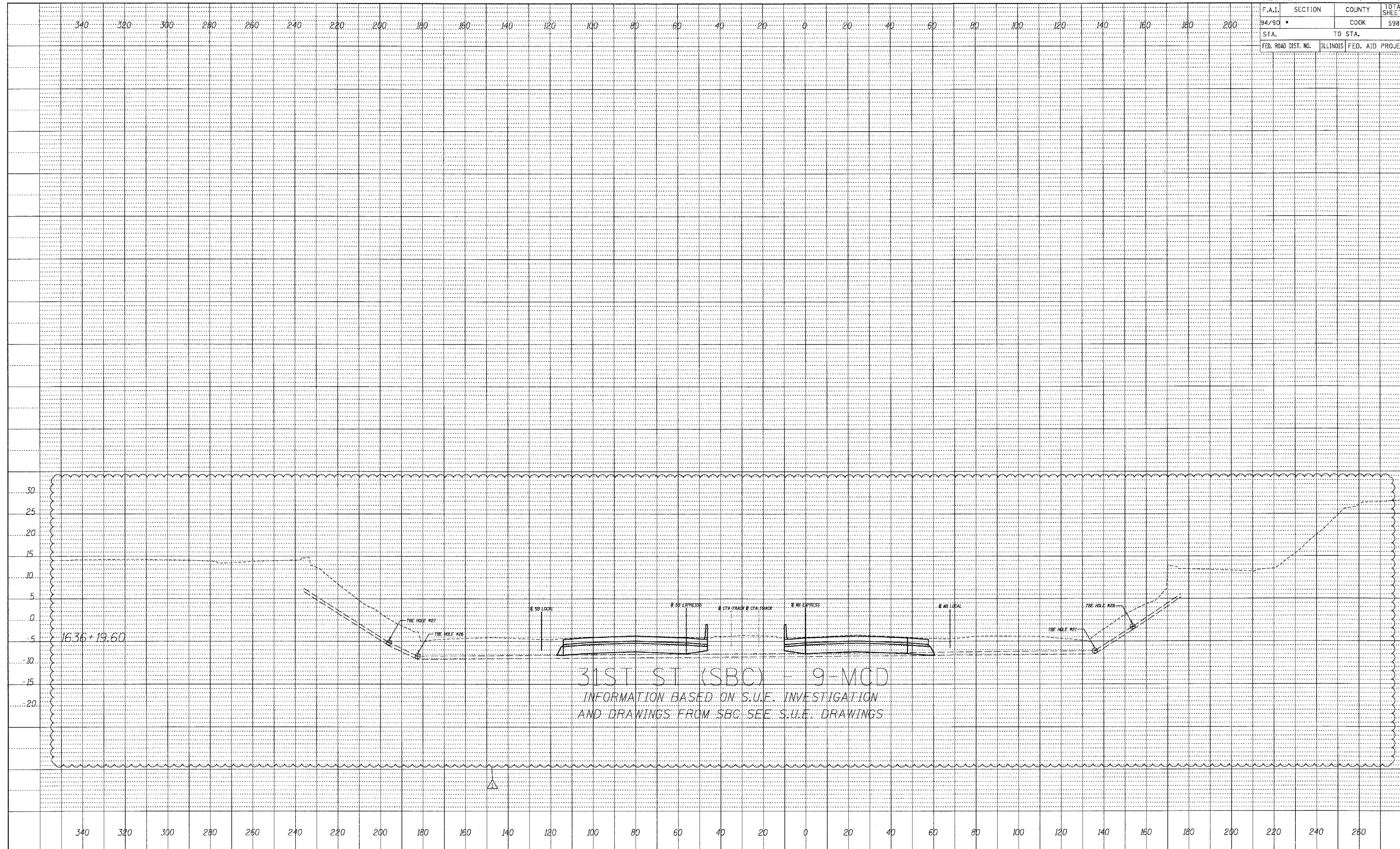
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STA. ----+-- TO STA. ----+--

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	598	598
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY _____	DATE _____
PROFILE SURVEYED _____	DESIGNED _____
NOTE BOOK _____	DATE CHECKED _____
NO. _____	BY _____
	STATUS _____
	DATE _____



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STA. ____+__ TO STA. ____+__

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