

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	1

D-91-428-06

78  
+4  
82

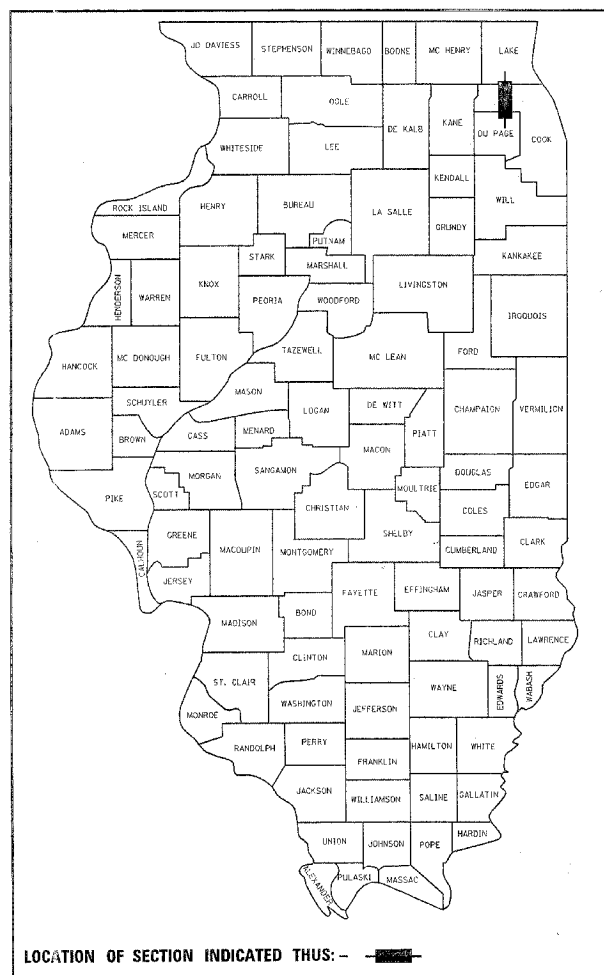
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

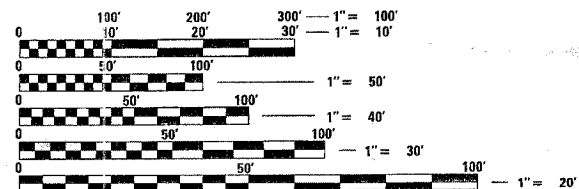
FAI ROUTE I-290 : I-290 / ILL. 53 OVER  
SECTION 2006-030 I

LOCATION NO. 1 : I-90 (NW TOLL)  
LOCATION NO. 2 : ILL. 58 (GOLF RD)  
LOCATION NO. 3 : WOODFIELD DR.  
BRIDGE DECK OVERLAY  
COOK COUNTY  
C-91-428-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2



IMPROVEMENT LOCATED IN THE VILLAGE OF  
SCHAUMBURG AND CITY OF ROLLING MEADOWS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

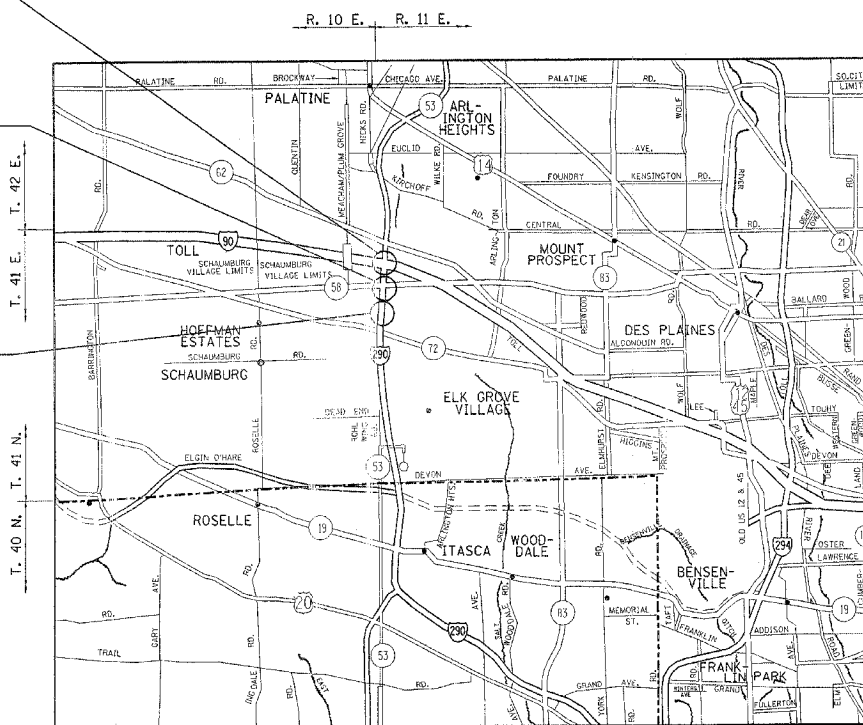
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 60B79

LOCATION NO. 1  
STRUCTURE NO. 016-0977

LOCATION NO. 2  
STRUCTURE NO. 016-0980

LOCATION NO. 3  
I-290 (SB) OVER WOODFIELD DR.  
STRUCTURE NO. 016-0978



ELK GROVE TOWNSHIP



TRAFFIC DATA  
I-290  
2005 ADT = 196,600  
SPEED LIMIT = 55 MPH

I-90  
2005 ADT = 159,900  
SPEED LIMIT = 55 MPH

ILL. 58  
2005 ADT = 45,900  
SPEED LIMIT = 40 MPH

WOODFIELD DR.  
2003 ADT = 6,600  
SPEED LIMIT = 35 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED April 12 20 07

Dave Okh  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 20 07  
Eric E. Hamm  
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 07  
Milton R. See, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	Cook	78	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**INDEX OF SHEETS**

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1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
3	SUMMARY OF QUANTITIES
4-37	TRAFFIC CONTROL STAGING
38-49A	GENERAL BRIDGE PLANS FOR I-290 OVER I-90 <i>AND ROADWAY PLAN</i>
50-61A	GENERAL BRIDGE PLANS FOR I-290 OVER ILL. 58 <i>AND ROADWAY PLAN</i>
62-70B	GENERAL BRIDGE PLANS FOR I-290 OVER ILL. WOODFIELD DR. <i>AND ROADWAY PLAN</i>
71	DETAIL - TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
72-73	DETAIL - MULTI-LANE FREEWAY PAVEMENT MARKING
74	DETAIL - RAISED REFLECTIVE PAVEMENT MARKERS
75	DETAIL - TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS
76	DETAIL - SINGLE AND MULTI-LANE WEAVE
77	DETAIL - ENTRANCE RAMP CLOSURE
78	I-90 EXIT AND ENTRANCE RAMP LANE CLOSURE DETAIL

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (or TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (or ISTHA).
- THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER LINEAL FOOT FOR "STEEL PLATE BEAM GUARDRAIL REMOVAL."
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 AND ISTHA DAILY TRAFFIC CONTROL AUTHORIZATION at (630) 241-6800 ext. 3822 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT MR. WALLY CZARNY, TRAFFIC FIELD ENGINEER, AT (773) 685-4342 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- CONCRETE SUPERSTRUCTURE (or CONCRETE WEARING SURFACE) SHALL HAVE A SEVEN DAY MINIMUM CURE.

**STATE STANDARDS**

STANDARD NO.	DESCRIPTION
630001-07	STEEL PLATE BEAM GUARDRAIL
631031-06	TRAFFIC BARRIER TERMINAL TYPE 6A
637006	CONCRETE BARRIER DOUBLE FACE, 42" HEIGHT
701101-01	OFFROAD OPERATIONS, MULTILANE, 15' TO 24" FROM EDGE OF PAVEMENT
701301-02	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701400-02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-03	LANE CLOSURE, FREEWAY/EXPRESSWAY
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION
701446	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-04	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701606-04	LANE CLOSURE, MULTILANE, 1W OR 2W, WITH MOUNTABLE MEDIAN
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
702001-00	TRAFFIC CONTROL DEVICES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INDEX OF SHEETS, STATE STANDARDS  
 SUMMARY OF QUANTITIES AND  
 GENERAL NOTES**

SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY

F.A. RTE. 290	SECTION 2006-030 I	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		LOC. 1 I-90 016-0977 SFTY-2A	LOC. 2 ILL. 58 016-0980 SFTY-2A	LOC. 3 WOODFIELD 016-0978 SFTY-2A	I000
78100105	STONE RIPRAP CLASS A3	SQ YD	24		24		
44000415	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	10,645	9733	5609	1303	
X0325774	RELOCATE TEMPORARY IMPACT ATTENUATOR	EACH	6	3	3		
50102400	CONCRETE REMOVAL	CU YD	148	85	63		
50157300	PROTECTIVE SHIELD	SQ YD	9,875	5,600	3,510	765	
50300100	FLOOR DRAINS	EACH	20		20		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	218	119	90	9	
50300530	FLOOR DRAIN EXTENSION	EACH	8		8		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	47,020	25,690	19,530	1800	
59000200	EPOXY CRACK INJECTION	FOOT	352	211	137	4	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	726	726			
* 63000015	STEEL PLATE BEAM GUARD RAIL, TYPE D	FOOT	623			623	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	12			12	
63200725	STEEL PLATE BEAM GUARD RAIL REMOVAL, TYPE D	FOOT	2953	1070	683	1200	
<del>63304805</del>	<del>TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 6</del>	<del>EACH</del>	<del>12</del>	<del>6</del>	<del>6</del>		
64200105	SHOULDER RUMBLE STRIP	FOOT	10600	4232	4108	2260	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	5	4	2	1
67100100	MOBILIZATION	L SUM	1	0.5	0.3	0.2	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		0.5	0.5	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	11	5	4	2	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	87392	43696	26218	17478	
70300530	PAVEMENT MARKING TAPE, TYPE III 5"	FOOT	62900	31450	18870	12580	
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	11210	5605	3363	2242	
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	510	255	193		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	63079	31540	18924	12615	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3737	2127	1610		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4450	2840	1610		
* 72100100	SIGN PANEL OVERLAY	SQ FT	640	320	320		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14,500			14,500	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	6439	3213	2696	530	
* 78003120	PREFORMED PLASTIC PAVEMENT MARKING - LINE 5"	FOOT	16,100			16,100	
* 78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	1588	714	674	200	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	172	80	68	24	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	6710			6710	
X0320887	POLYMER CONCRETE	CU FT	45		45		
X0321743	SILICONE JOINT SEALER, 1"	FOOT	1170	714	456		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, N10	TON	1552	7	6	2	1537
40603600	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, N10.5	TON	71				71
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	249	115	98	36	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	18,461				18,461
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	623				623

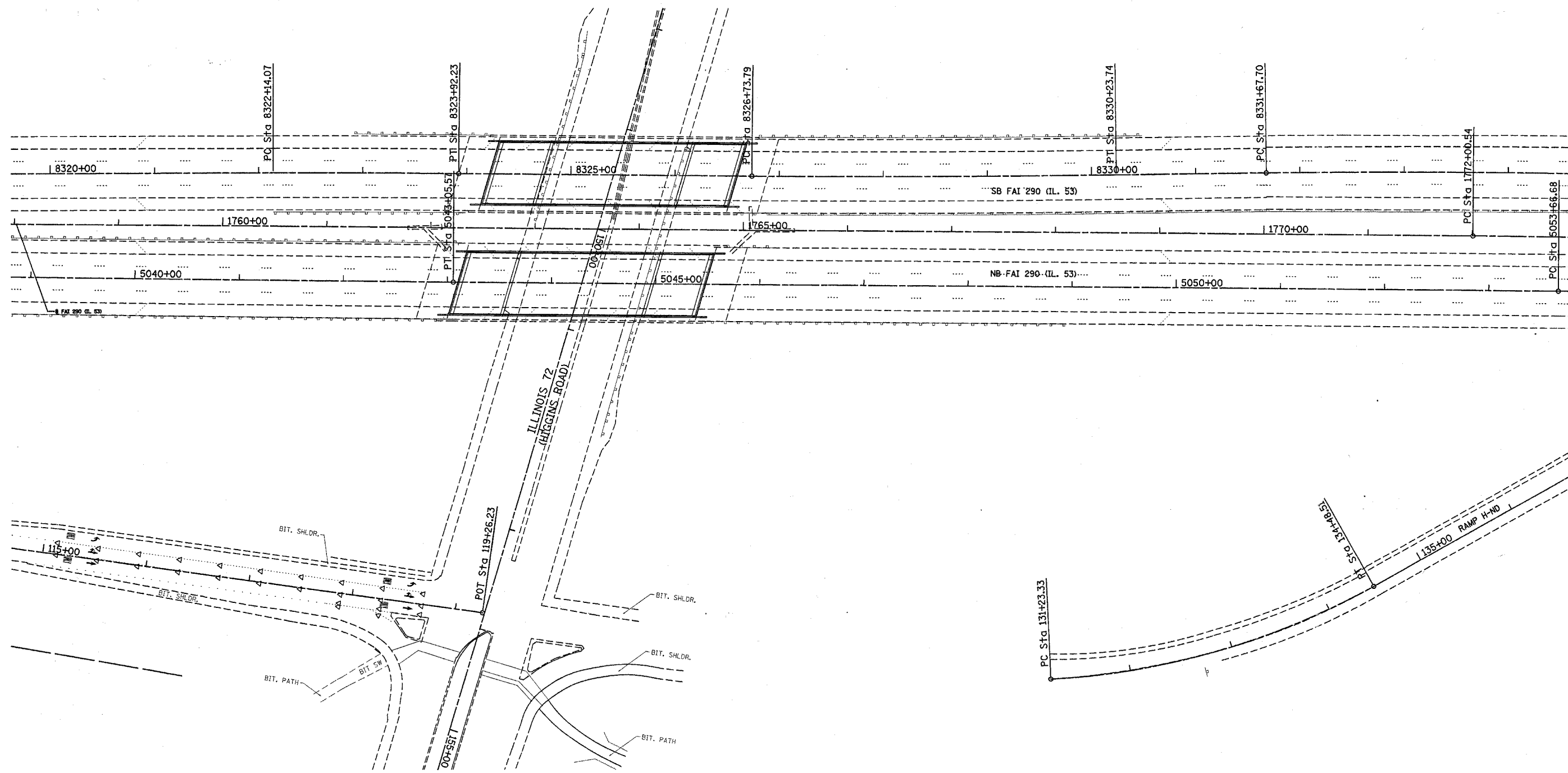
SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		LOC. 1 I-90 016-0977 SFTY-2A	LOC. 2 ILL. 58 016-0980 SFTY-2A	LOC. 3 WOODFIELD 016-0978 SFTY-2A	I000
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	96		48	48	
X0322489	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	10,645	9733	5609	1303	
X0322933	SILICONE JOINT SEALER, 2.5"	FOOT	239		239		
X0323076	SILICONE JOINT SEALER, 1 3/4"	FOOT	315		239	76	
X0323077	SILICONE JOINT SEALER, 2 3/4"	FOOT	590	516		74	
<del>X0325201</del>	<del>SHOULDER RUMBLE STRIP REMOVAL</del>	<del>SQ YD</del>	<del>2,356</del>	<del>941</del>	<del>913</del>	<del>502</del>	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	980	597	290	93	
X6370940	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	FOOT	1753	1070	683		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.5	0.3	0.2	
X7012625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	EACH	1			1	
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1		1		
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	204	102	60	42	
Z0006202	BRIDGE DECK HYDRO-SCARIFICATION 3/4"	SQ YD	10,645	9733	5609	1303	
<del>Z0015595</del>	<del>DECK DRAIN EXTENSIONS</del>	<del>EACH</del>	<del>86</del>		<del>60</del>	<del>26</del>	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	45	30	10	5	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	441	255	91	95	
Z0065700	SLOPE WALL REPAIR	SQ YD	99		56	43	
X0325042	MODIFY EXISTING CONNECTION TO SIGN STRUCTURE	EACH	12	8	4		
Z0010605	CLEAN DRAINAGE SYSTEM	L SUM	1	1			
X0322469	PLUG EXISTING FLOOR DRAINS	EACH	12			12	

\*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE. NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

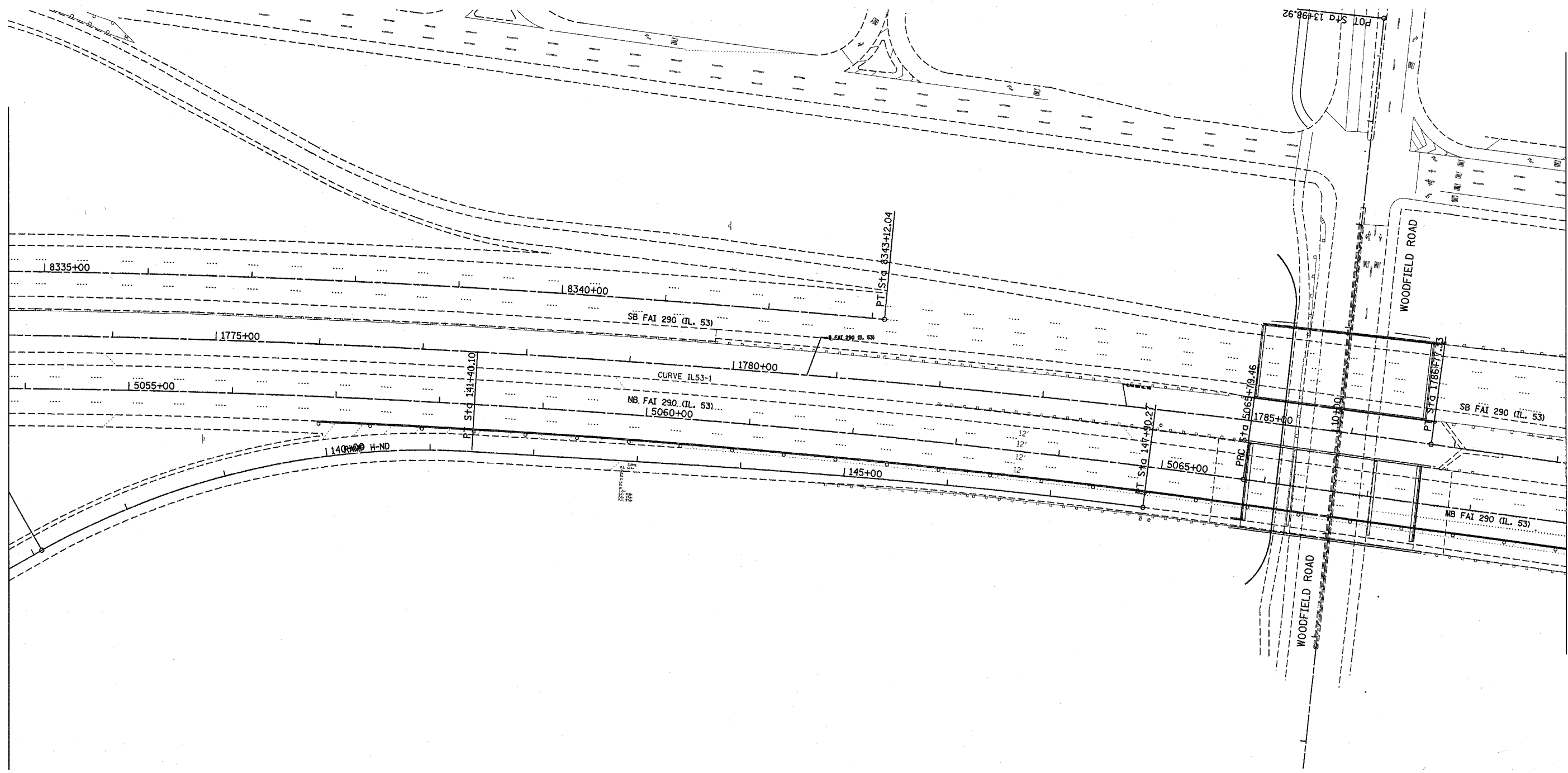


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1  
 SCALE: VERT. / HORIZ.  
 DATE / DRAWN BY / CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



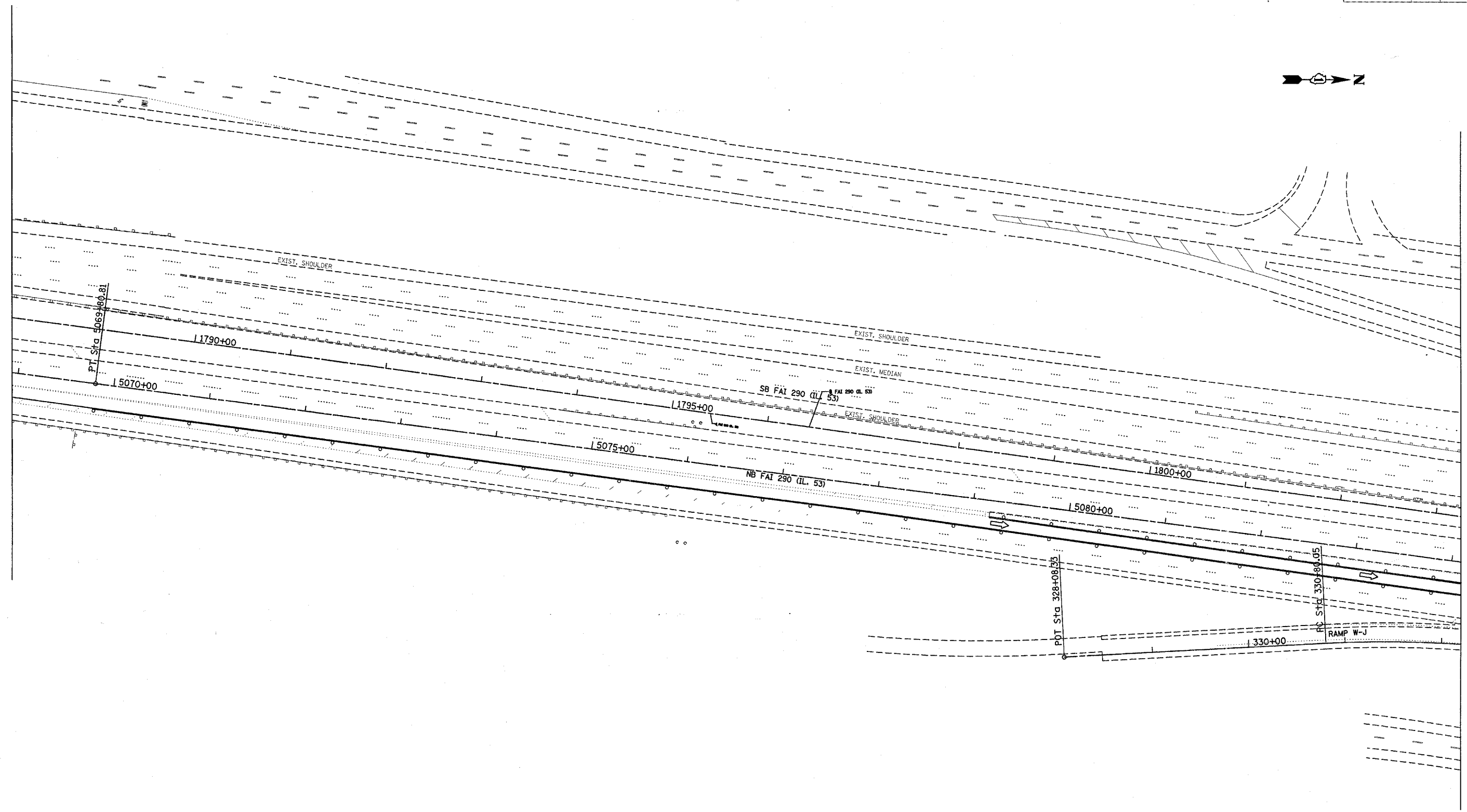
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

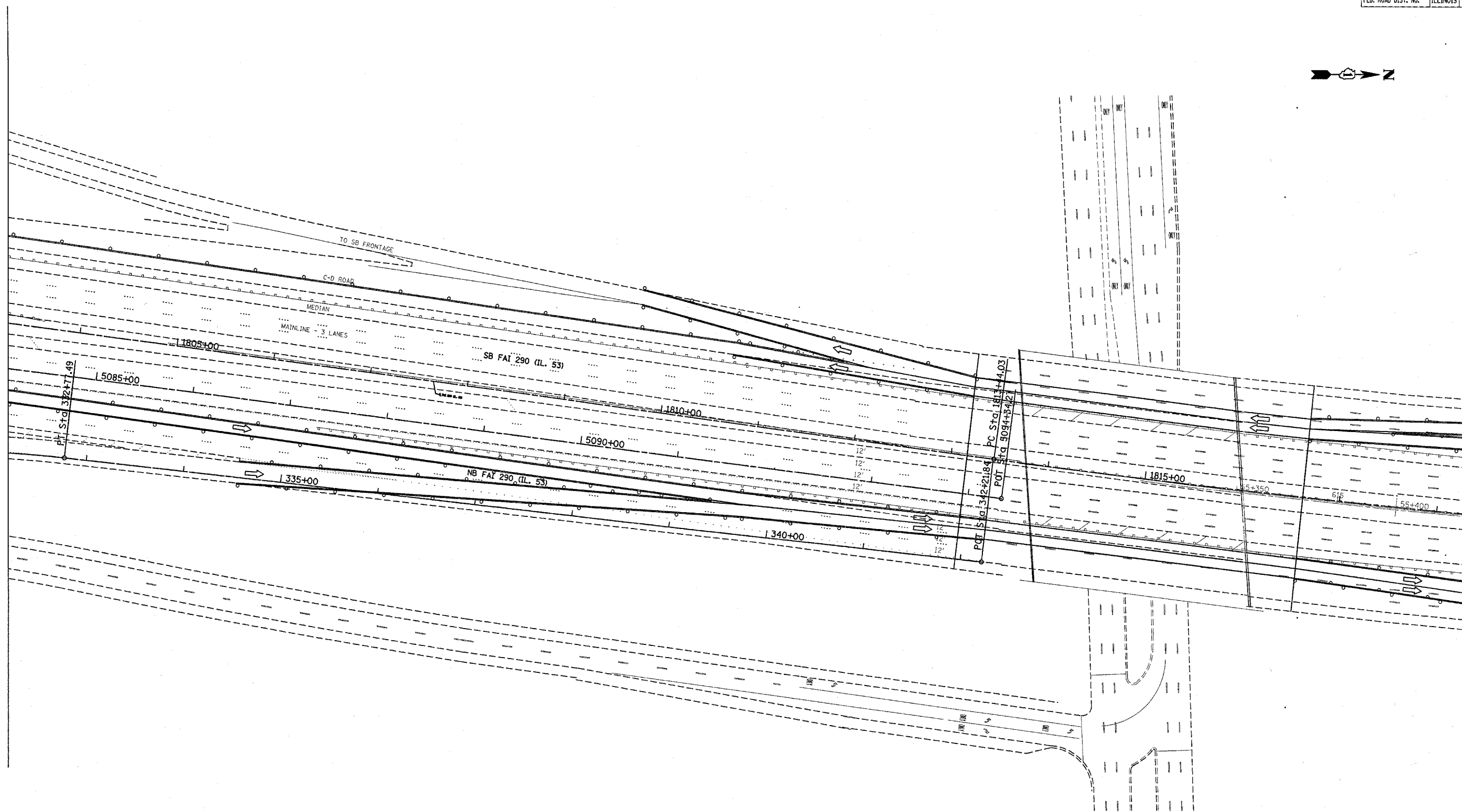


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1  
 SCALE: VERT. \_\_\_\_\_  
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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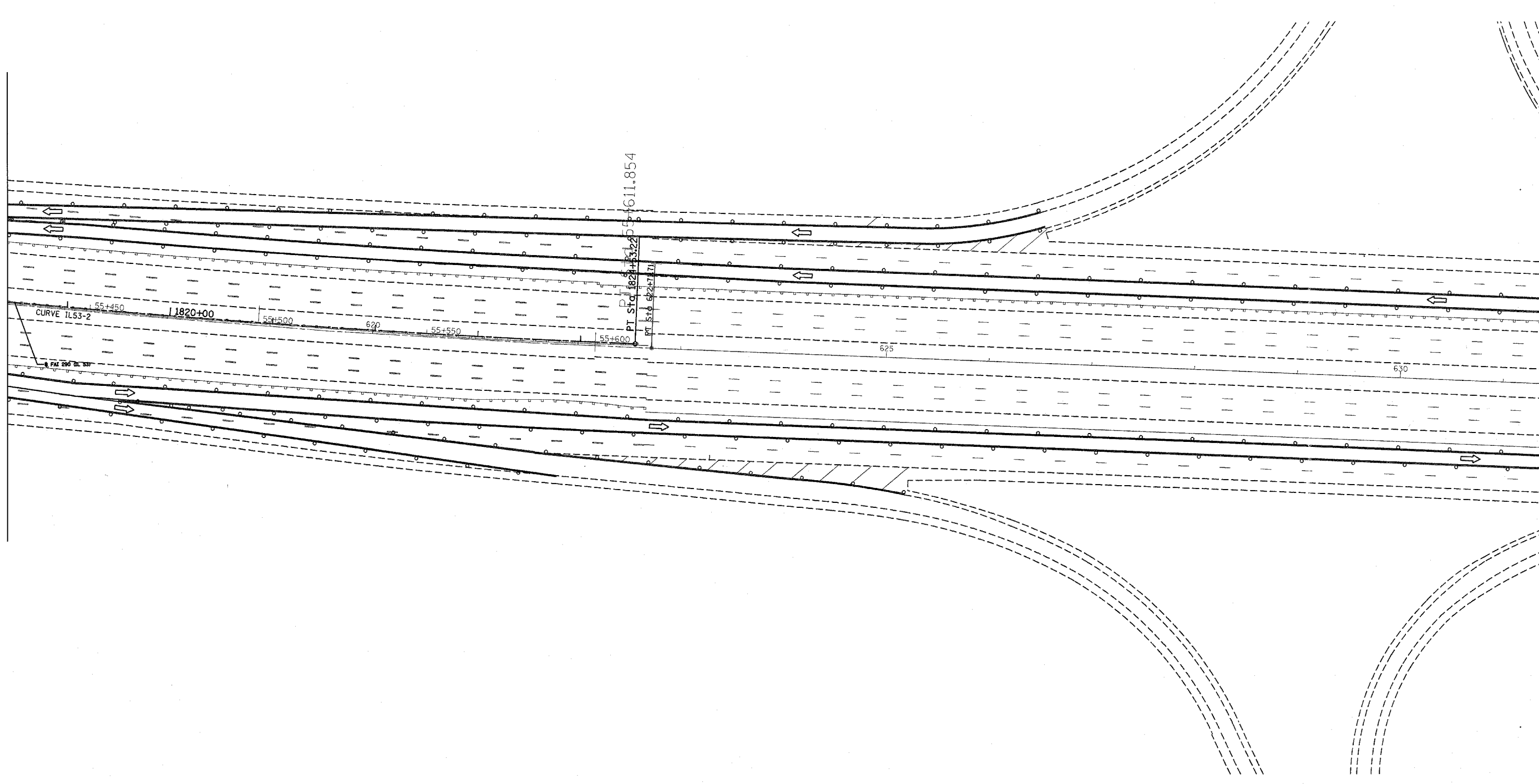
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1

SCALE: VERT.  
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 DATE

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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REVISIONS	
NAME	DATE

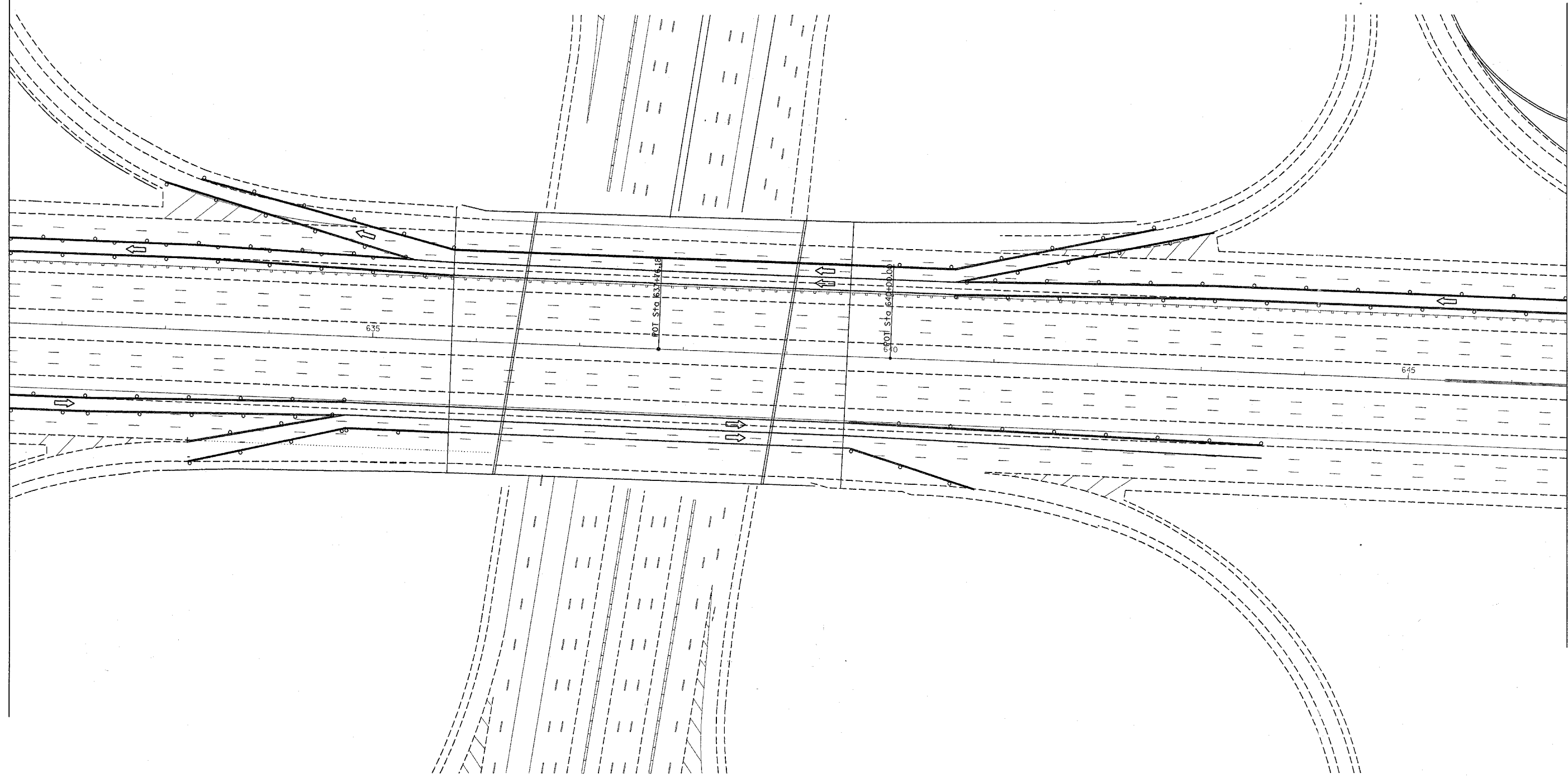
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

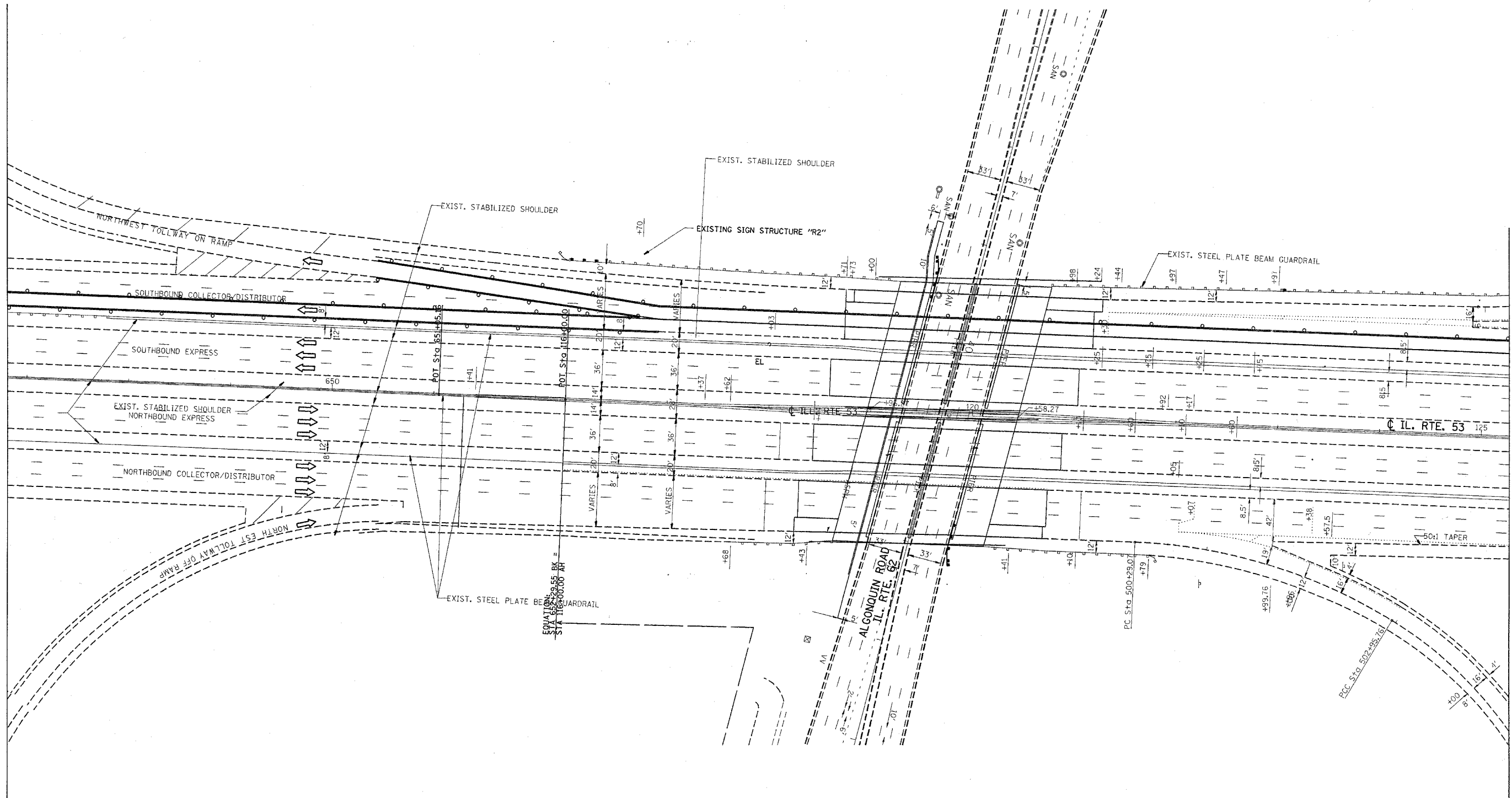


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1  
 SCALE: VERT.      DRAWN BY  
           HORIZ.      CHECKED BY  
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
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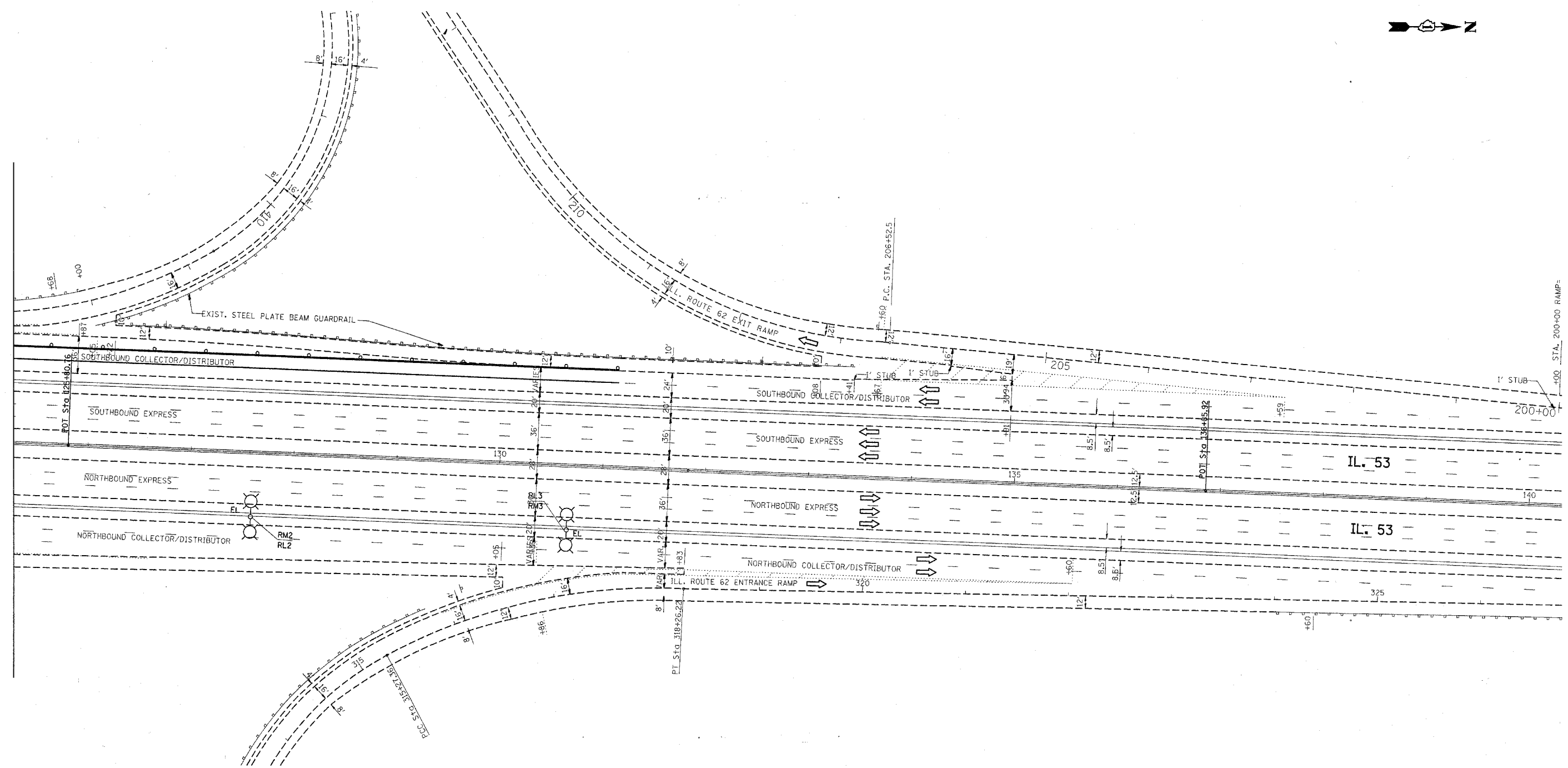
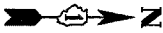
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



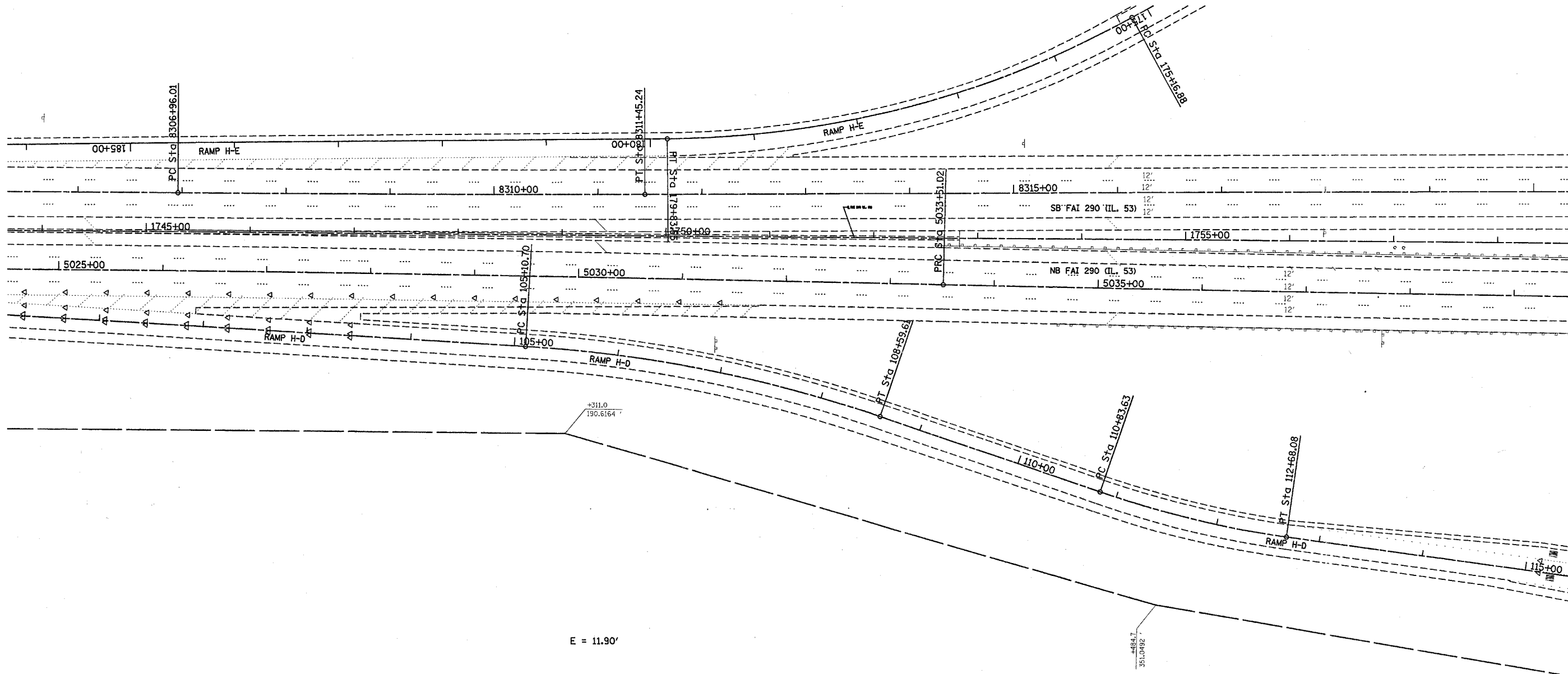
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	17
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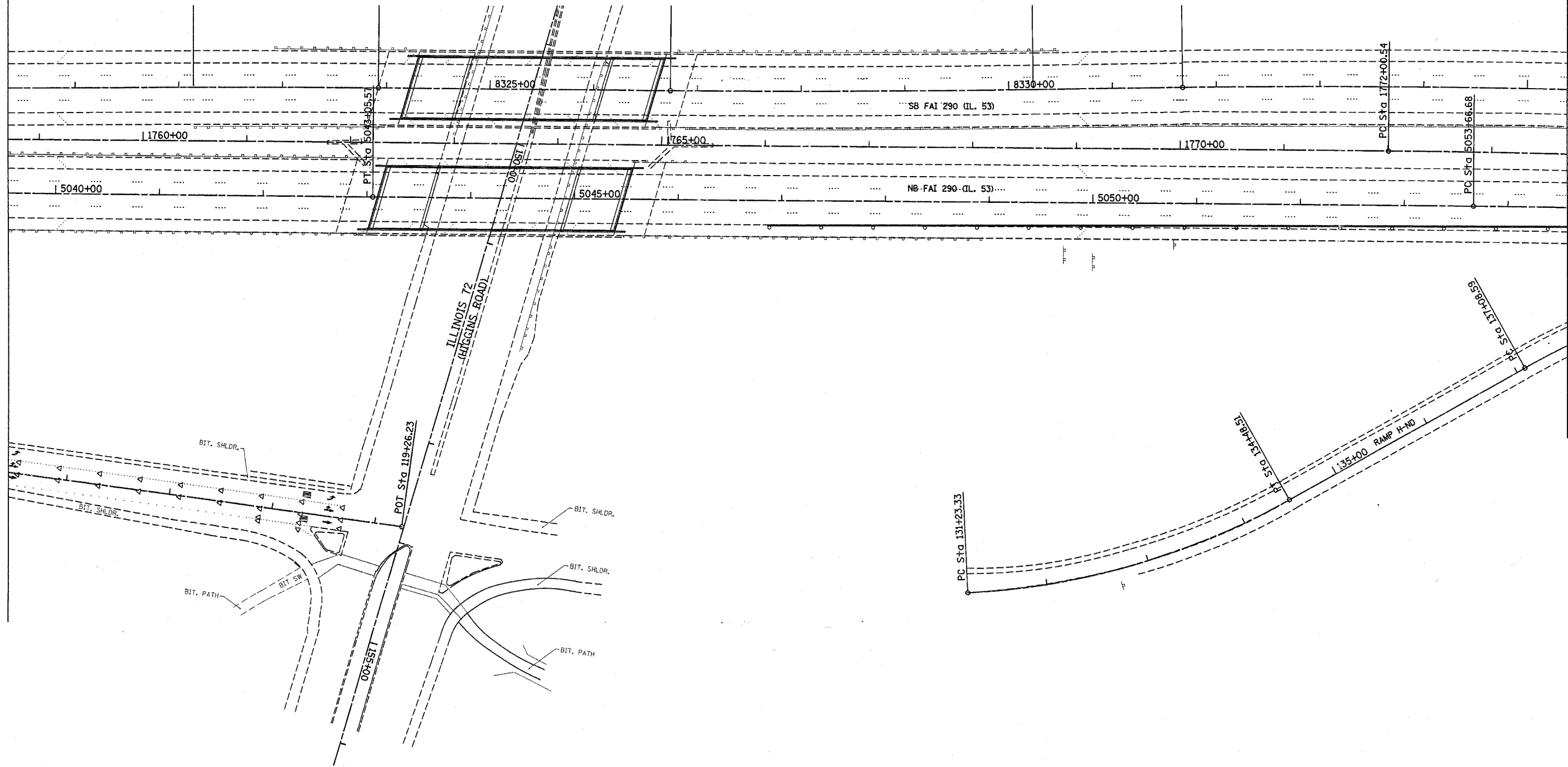
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



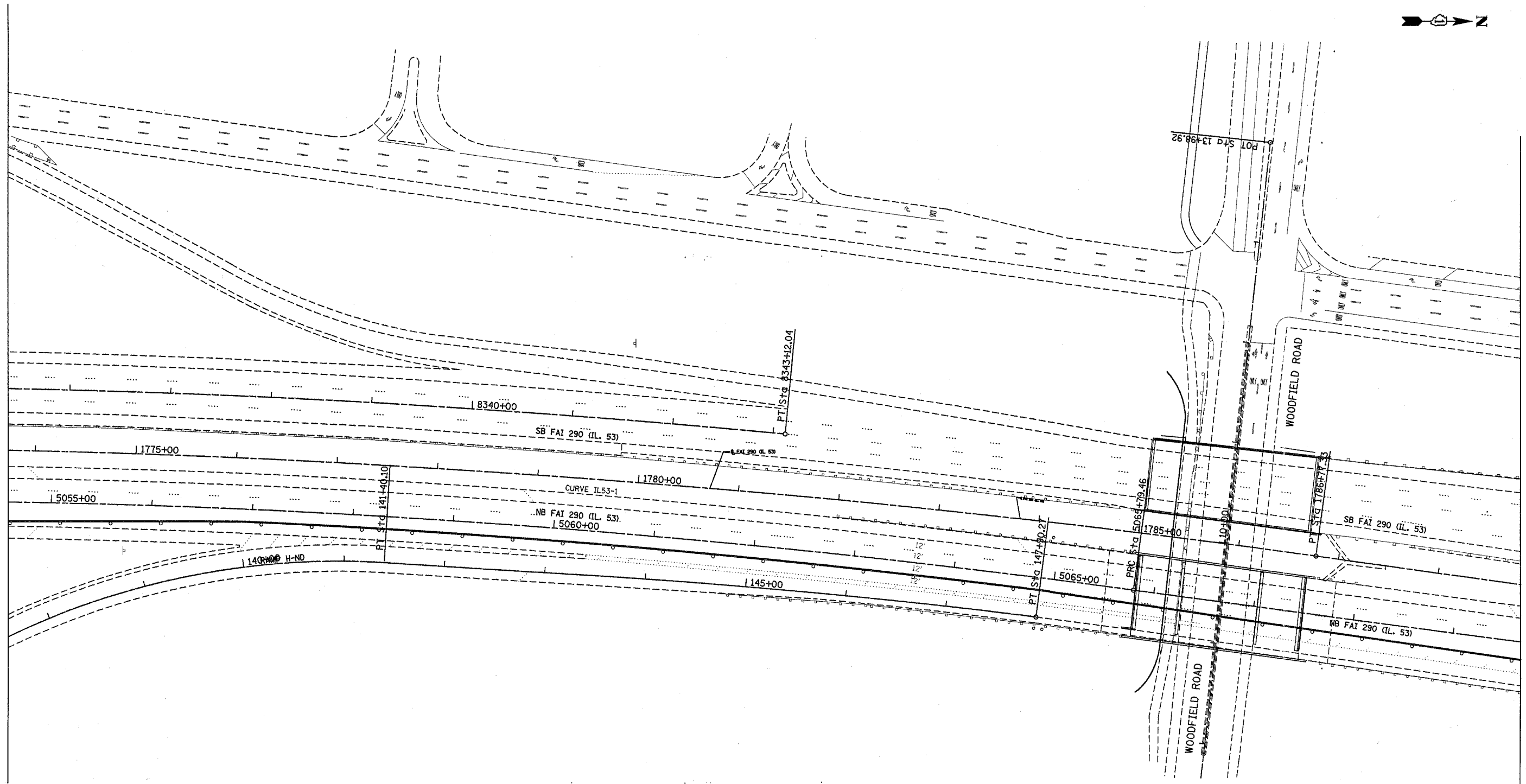
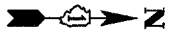
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



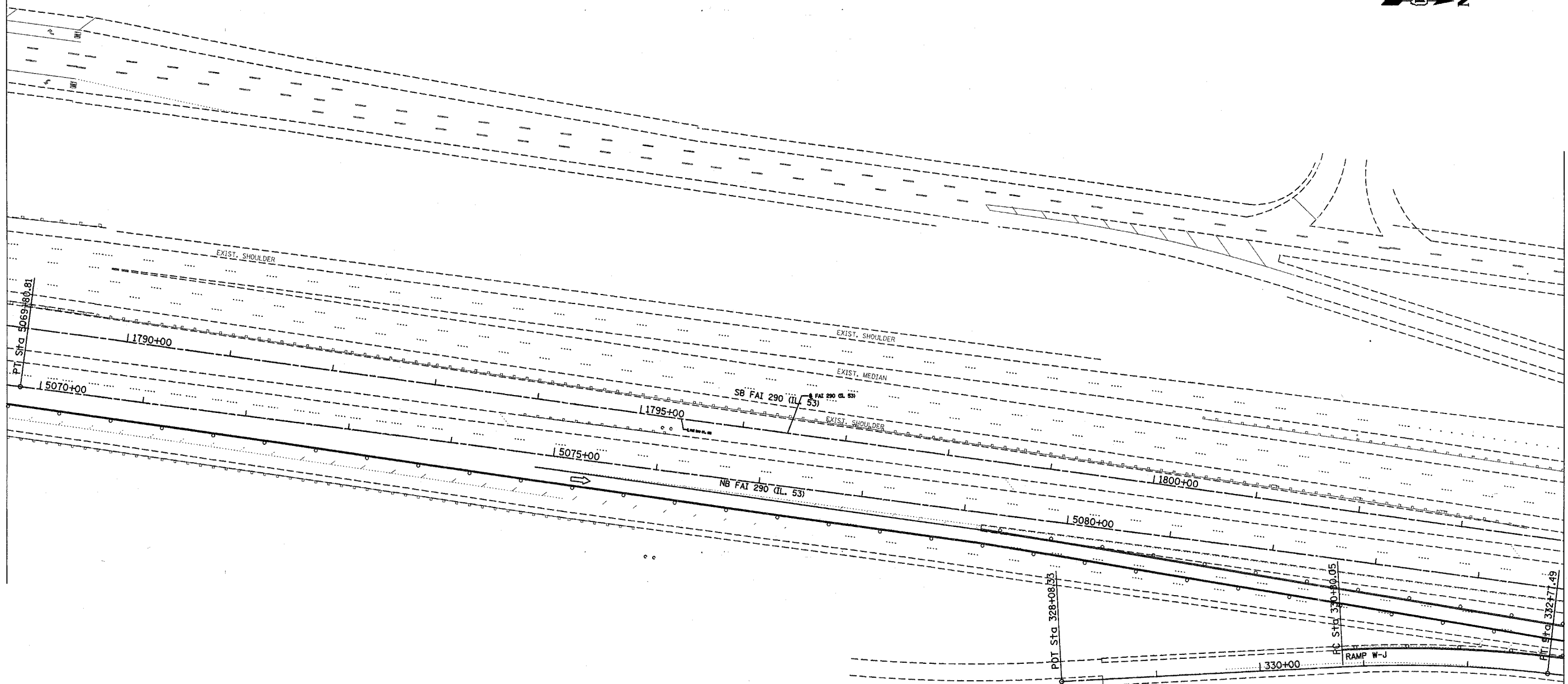
PLOT DATE = 4/17/2007  
 FILE NAME = c:\p\proj\60b79\14\2886\design\p06.dgn  
 PLOT SCALE = 51.80000 / IN.  
 USER NAME = rtschere

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



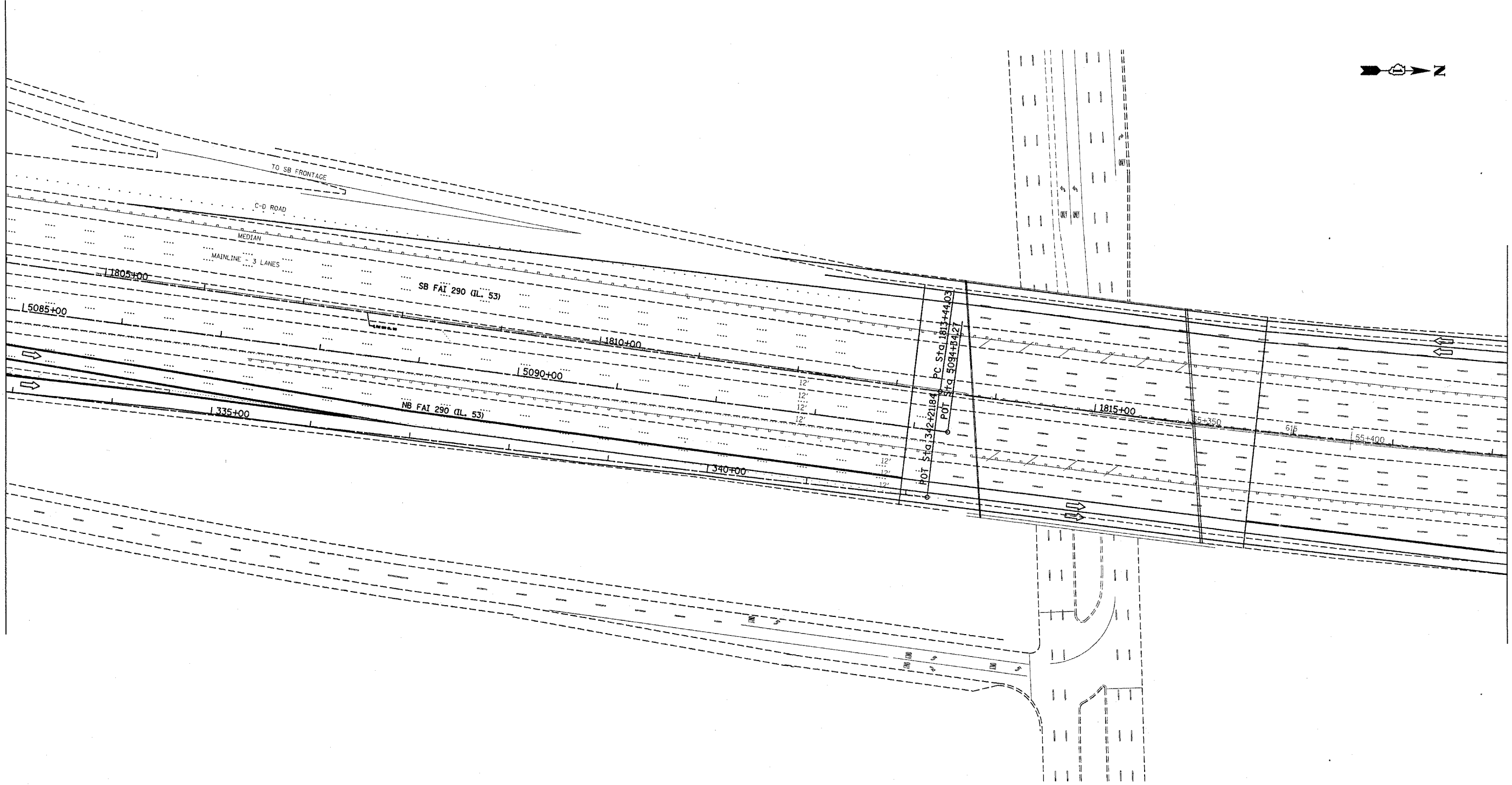
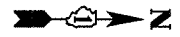
PLOT DATE = 4/17/2007  
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 PLOT SCALE = 51.88888 / IN.  
 USER NAME = ritchard

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 4/17/2007  
 FILE NAME = c:\projects\60b79\design\design.dgn  
 PLOT SCALE = 51.8608' / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

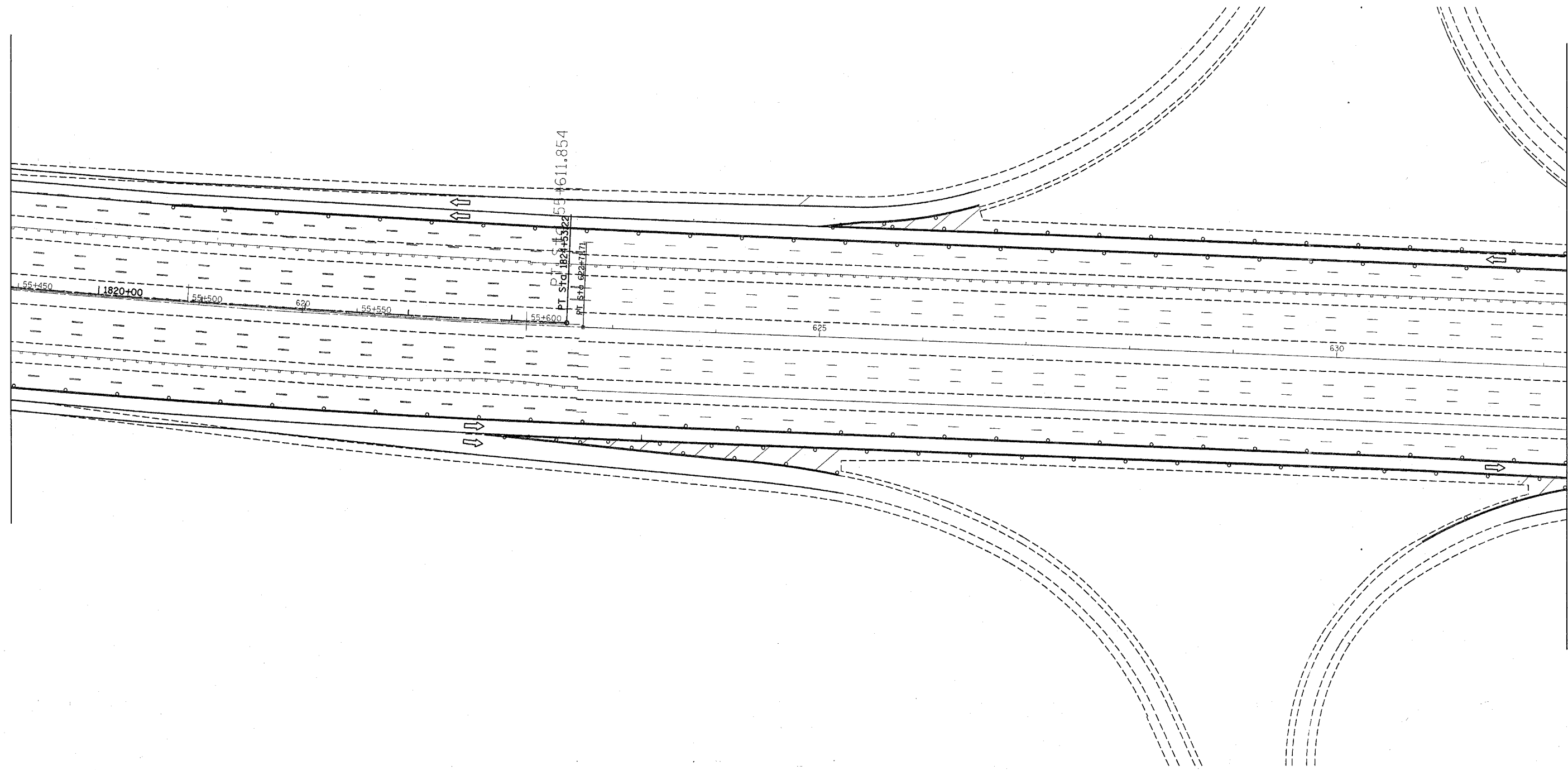
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	17

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



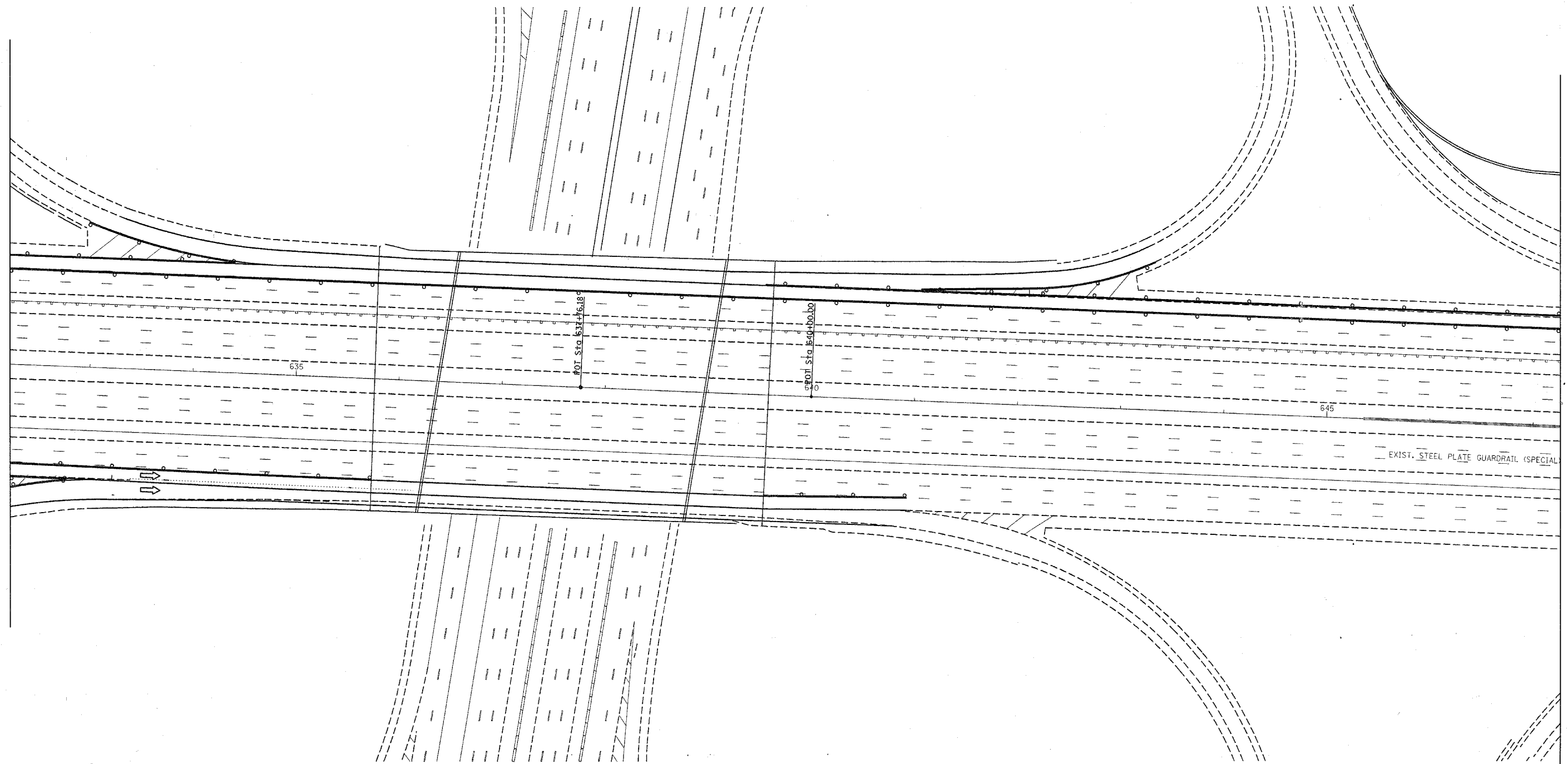
PLOT DATE = 4/17/2007  
 FILE NAME = c:\pro\secta\dl42886\designee.dgn  
 PLOT SCALE = 51.8000 / IN.  
 USER NAME = ritchieo

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.    DRAWN BY  
 HORIZ.        CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	78
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



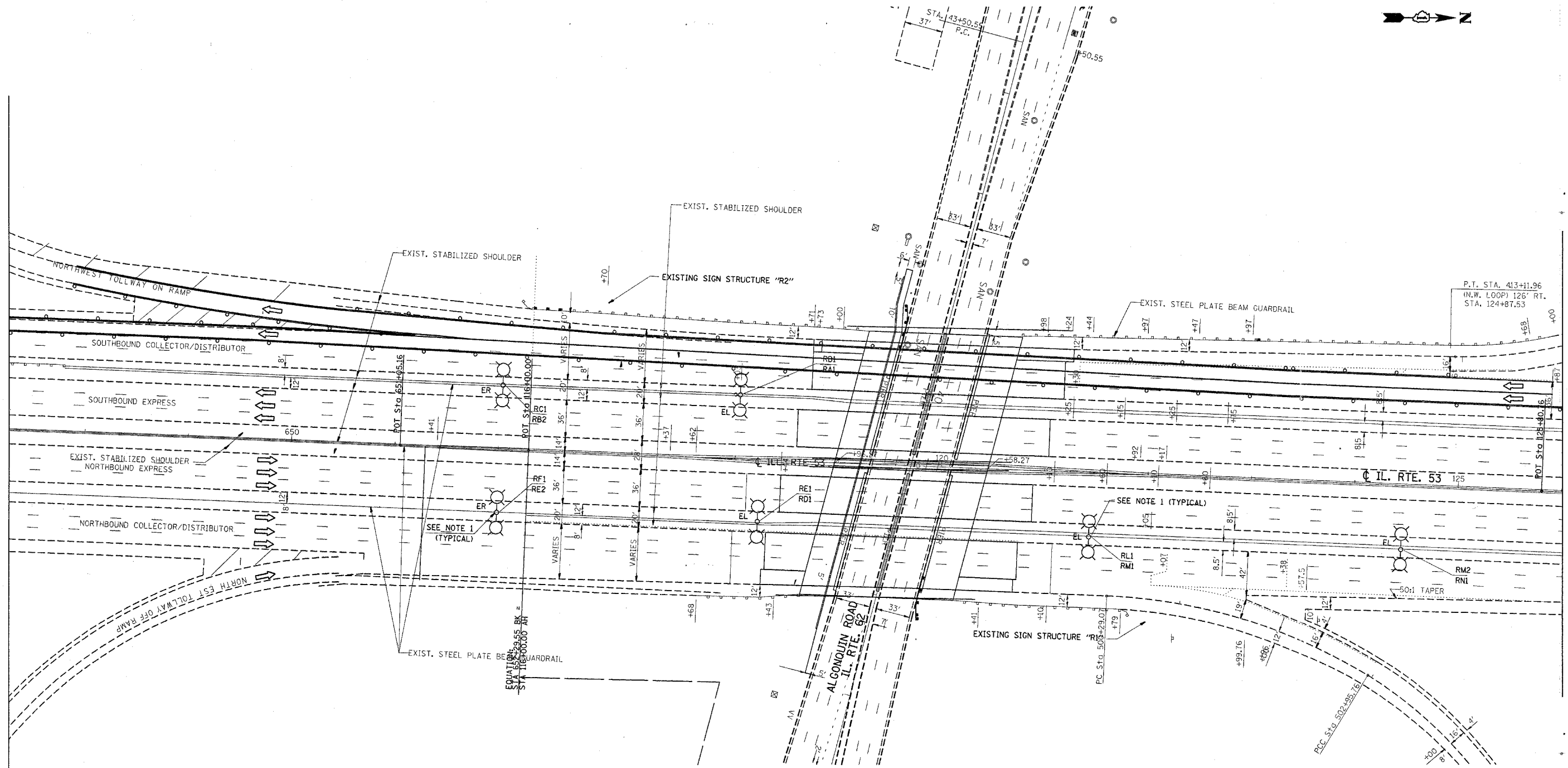
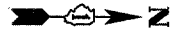
PLOT DATE = 4/17/2007  
 FILE NAME = c:\pcc\pccsa\dl42806\design\pcc.dgn  
 PLOT SCALE = 51.0000 // IN.  
 USER NAME = mitchiero

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



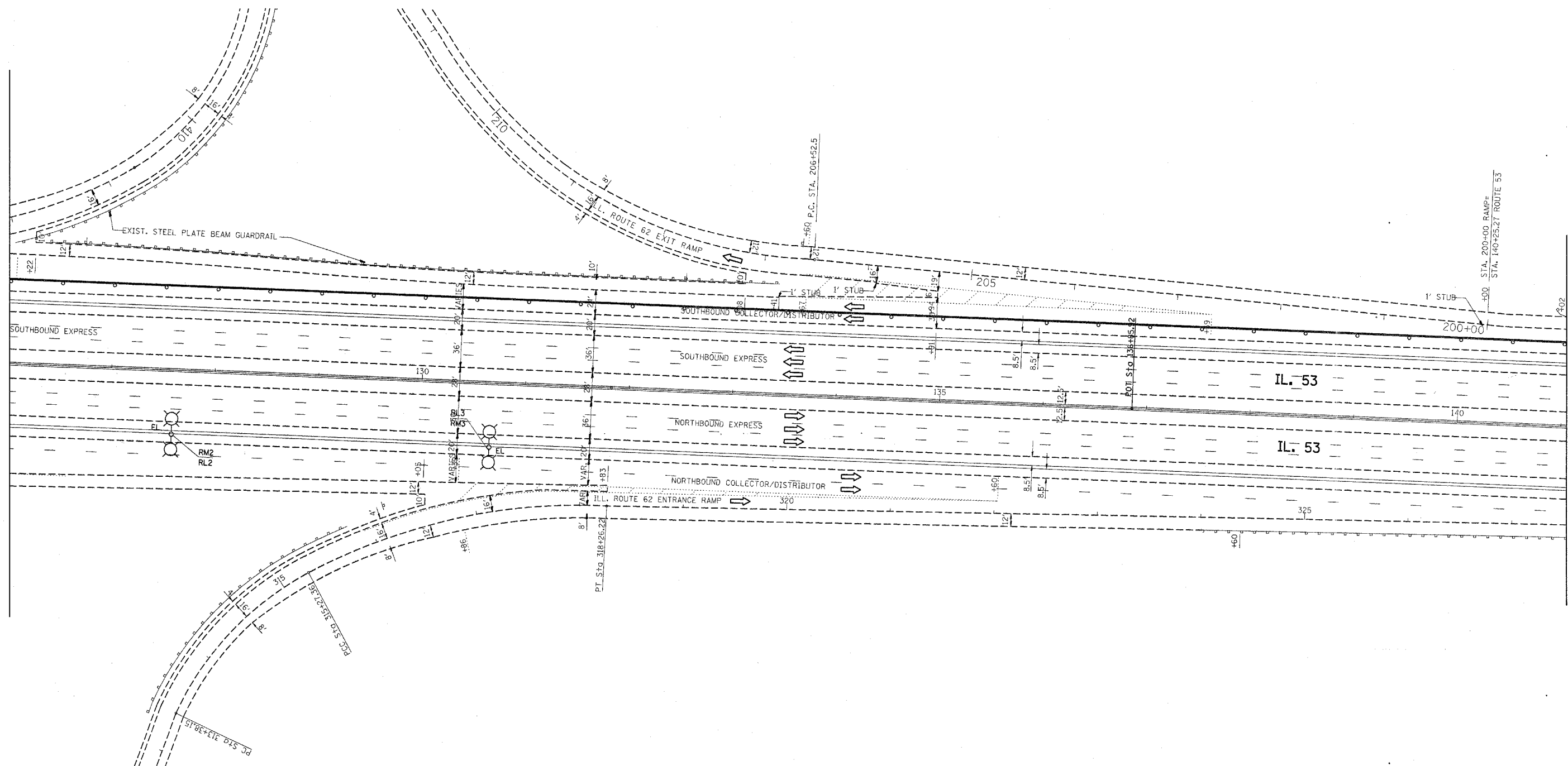
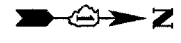
PLOT DATE = 4/17/2007  
 FILE NAME = c:\pvc\sect\42886\design\pae.dgn  
 PLOT SCALE = 51.80000 / IN.  
 USER NAME = ritchner

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.     DRAWN BY  
 HORIZ.            CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 4/17/2007  
 FILE NAME = c:\p1\2006\2006-030\design\stage1a.dgn  
 PLOT SCALE = 5/16/2006 / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

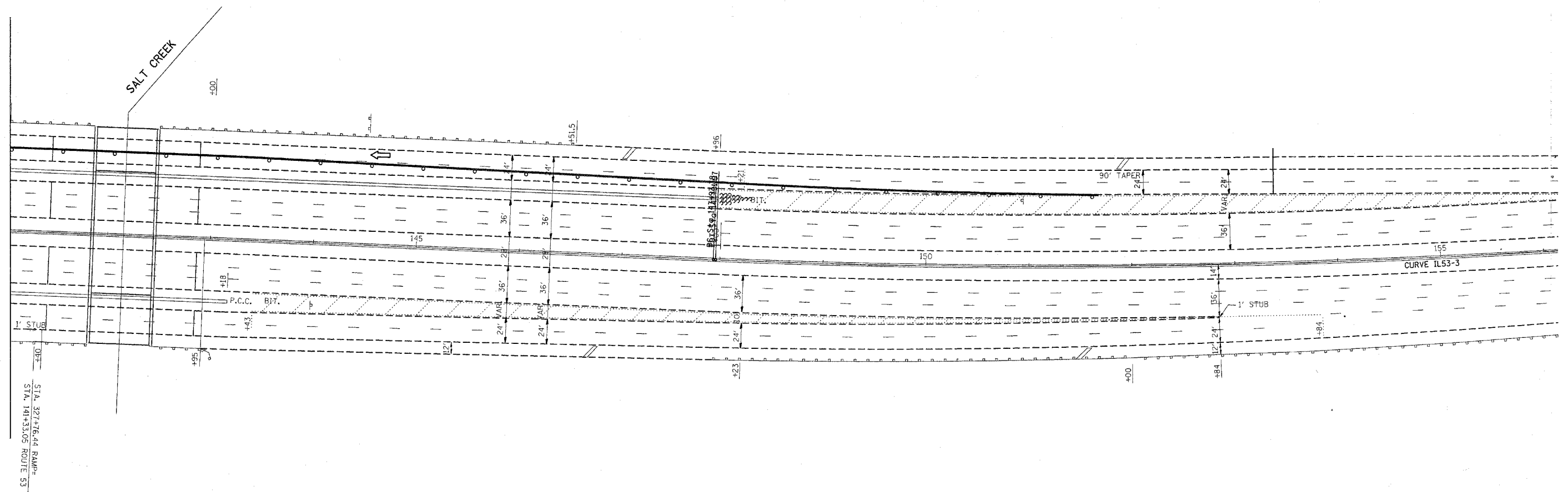
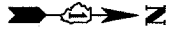
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA. 327+76.04 RAMP  
 STA. 141+33.05 ROUTE 53

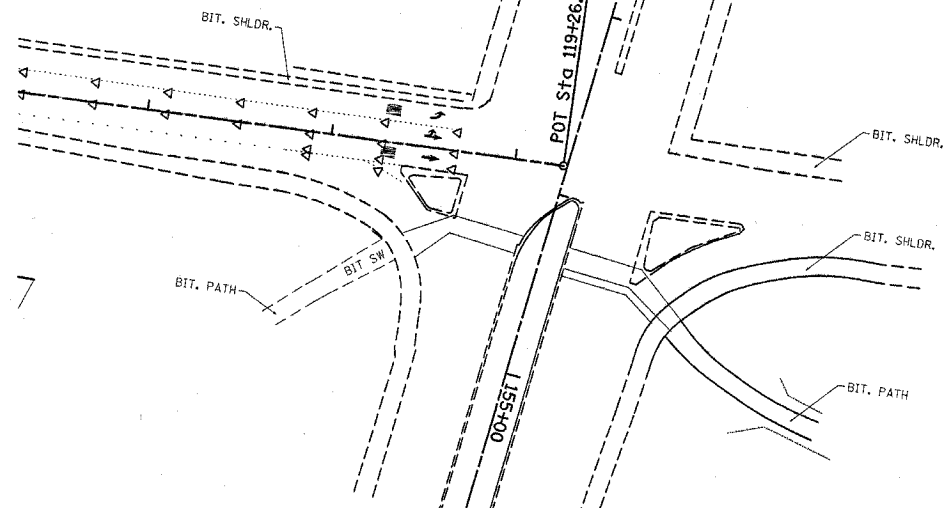
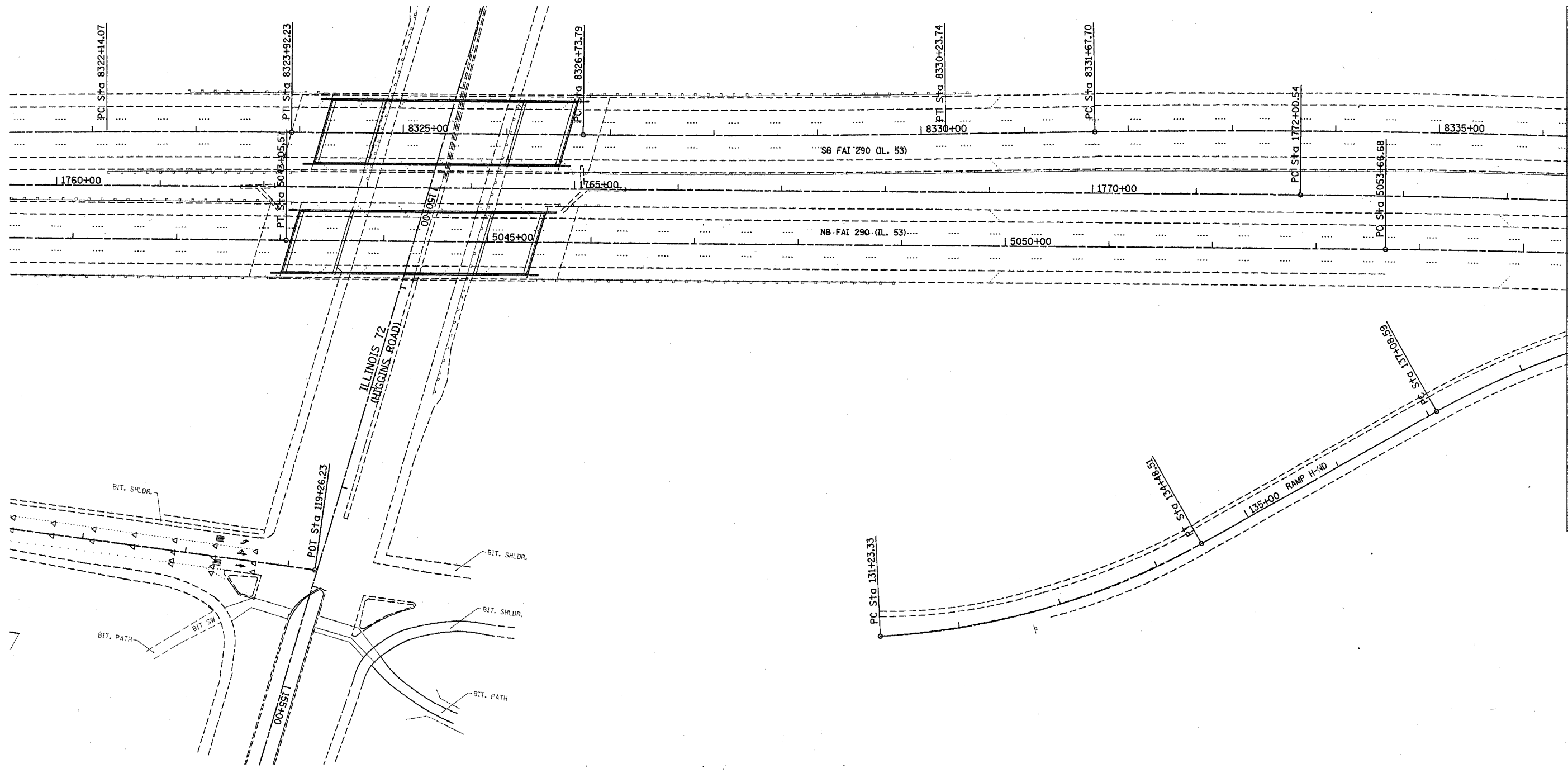
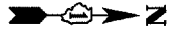
PLOT DATE = 4/17/2007  
 FILE NAME = c:\p\projects\42886\design\pba.dgn  
 PLOT SCALE = 51.80000' / IN.  
 USER NAME = ritchiana

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 1A

SCALE: VERT.     DRAWN BY  
 HORIZ.             CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	ZZ
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



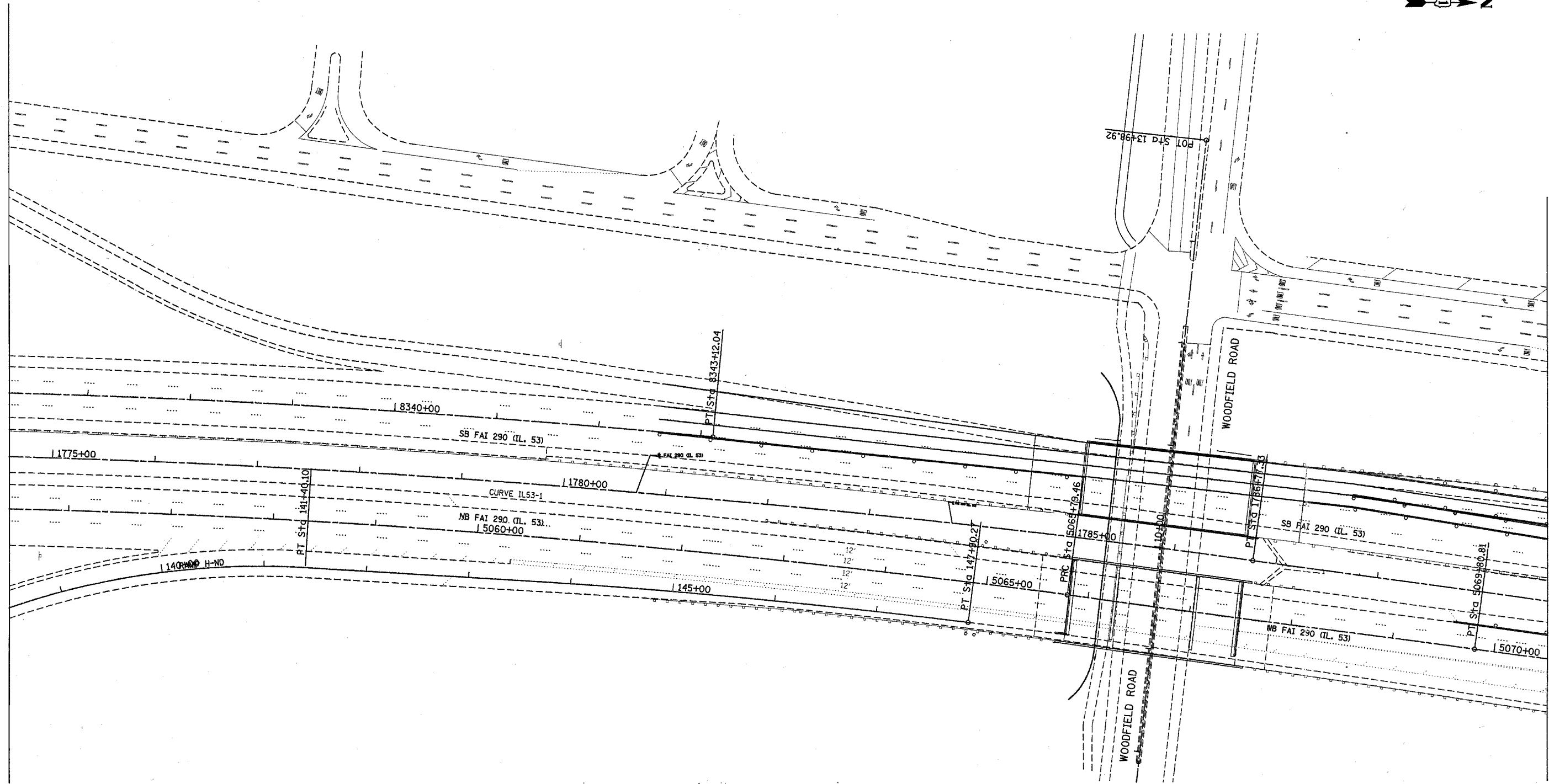
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 FILE NAME = c:\p1\2006\2006-030\142886\design\p006.dgn  
 PLOT SCALE = 5/8"=1' / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 4/17/2007  
 USER NAME = ritchiano

REVISIONS	
NAME	DATE

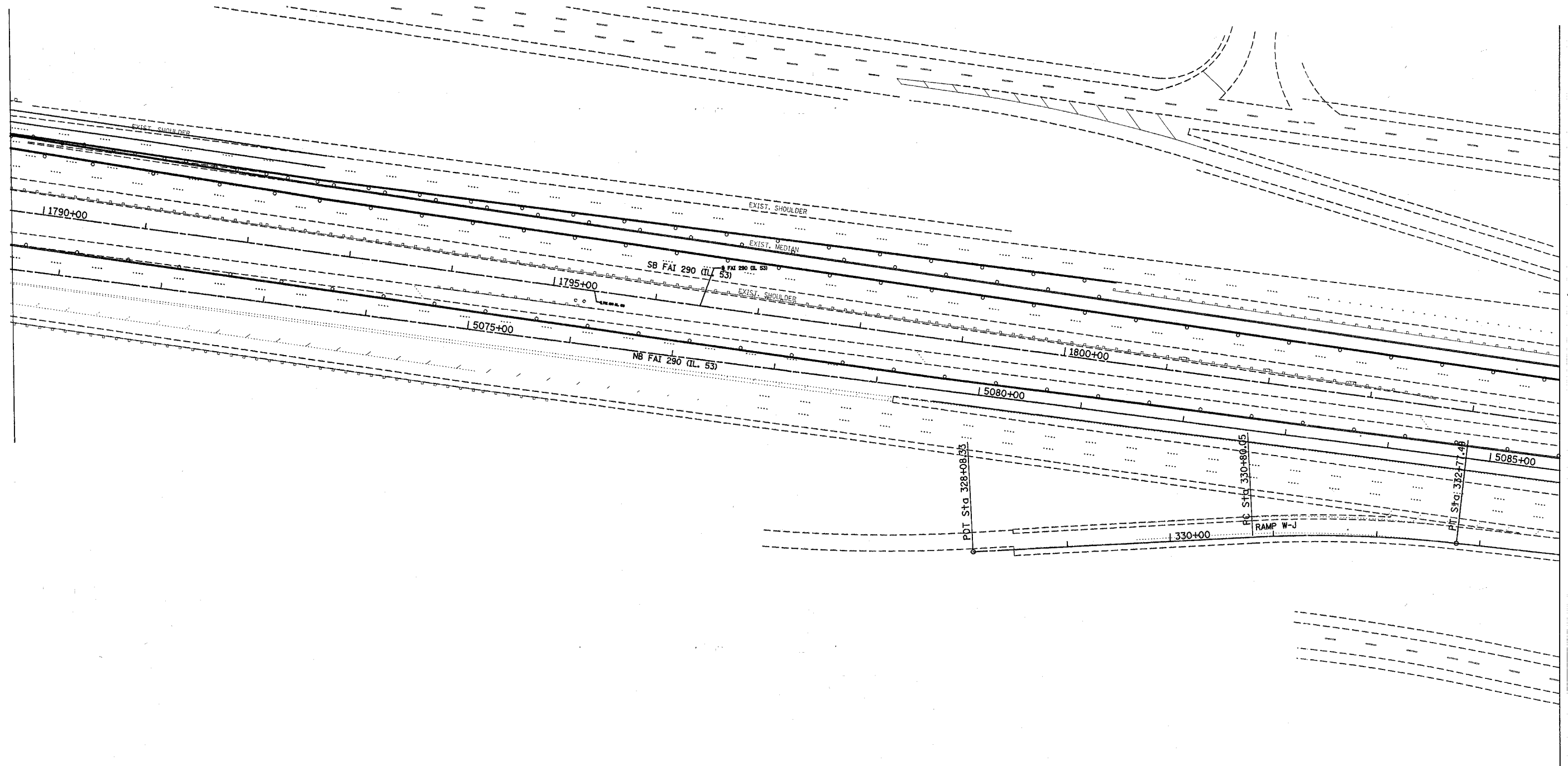
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL STAGING**  
 Stage 2

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	24

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



PLOT DATE = 4/17/2007  
FILE NAME = c:\projects\142885\design\as.dgn  
PLOT SCALE = 51.0000 / IN.  
USER NAME = ritchie

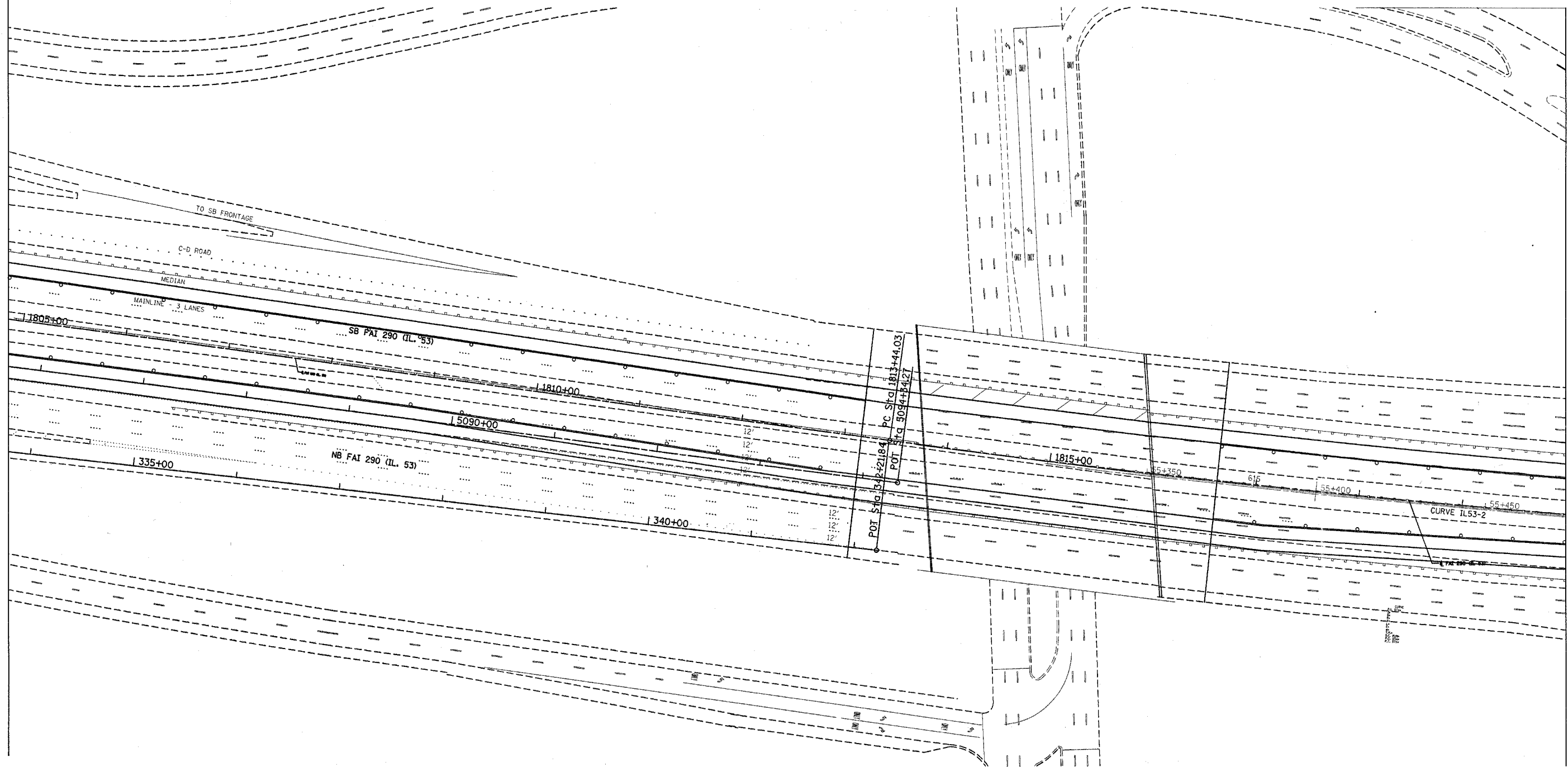
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL STAGING  
Stage 2

SCALE: VERT. DATE    HORIZ. DATE  
DRAWN BY                      CHECKED BY



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 4/17/2007  
 PLOT SCALE = 5/8" = 1' IN.  
 USER NAME = ritchie

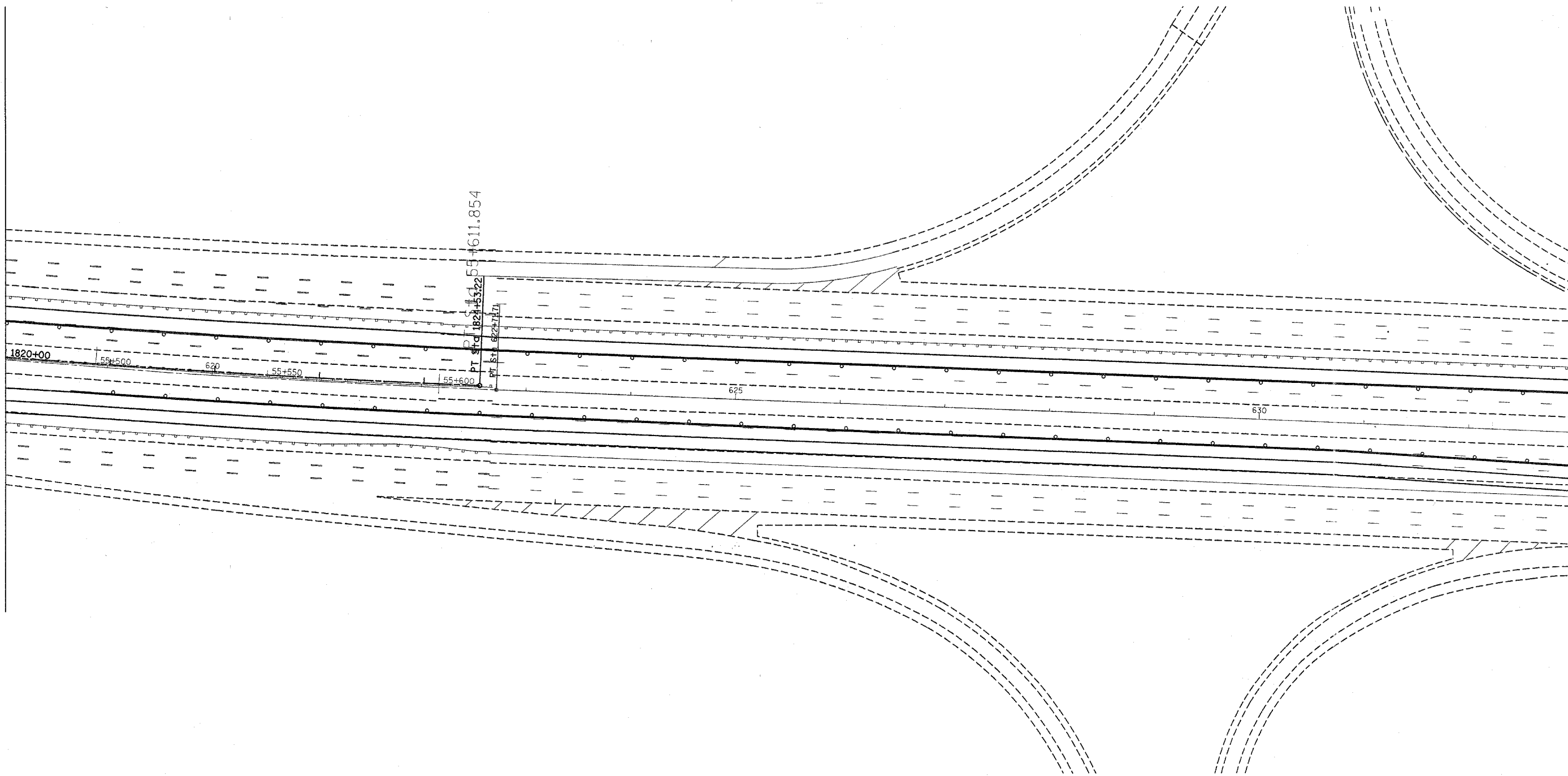
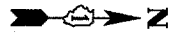
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT.    HORIZ.  
 DATE            DATE

DRAWN BY  
 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



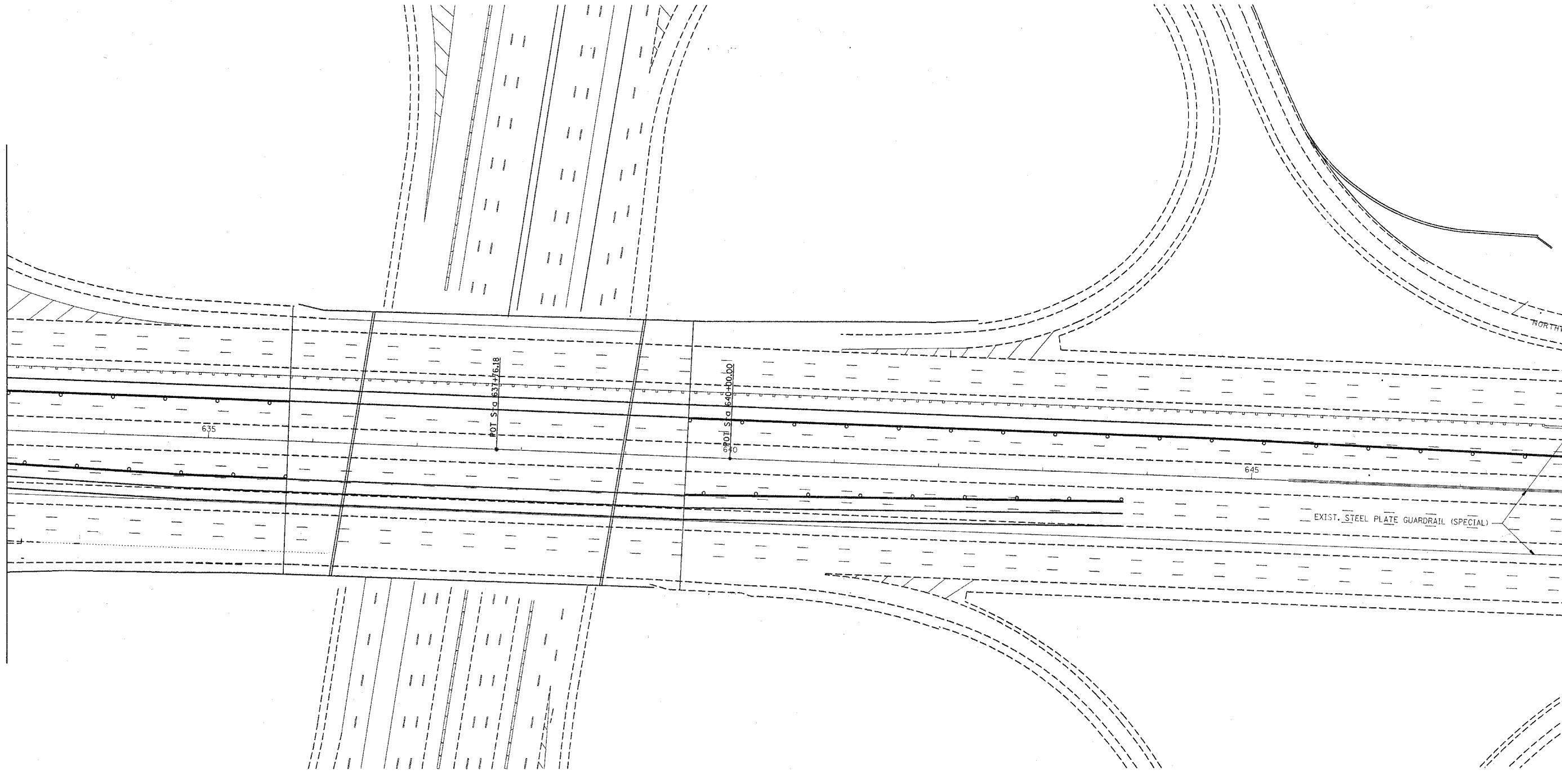
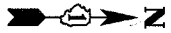
PLOT DATE = 4/17/2007  
 FILE NAME = I:\projects\2006\2006-030 I\stage2.dwg  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = ptichawa

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



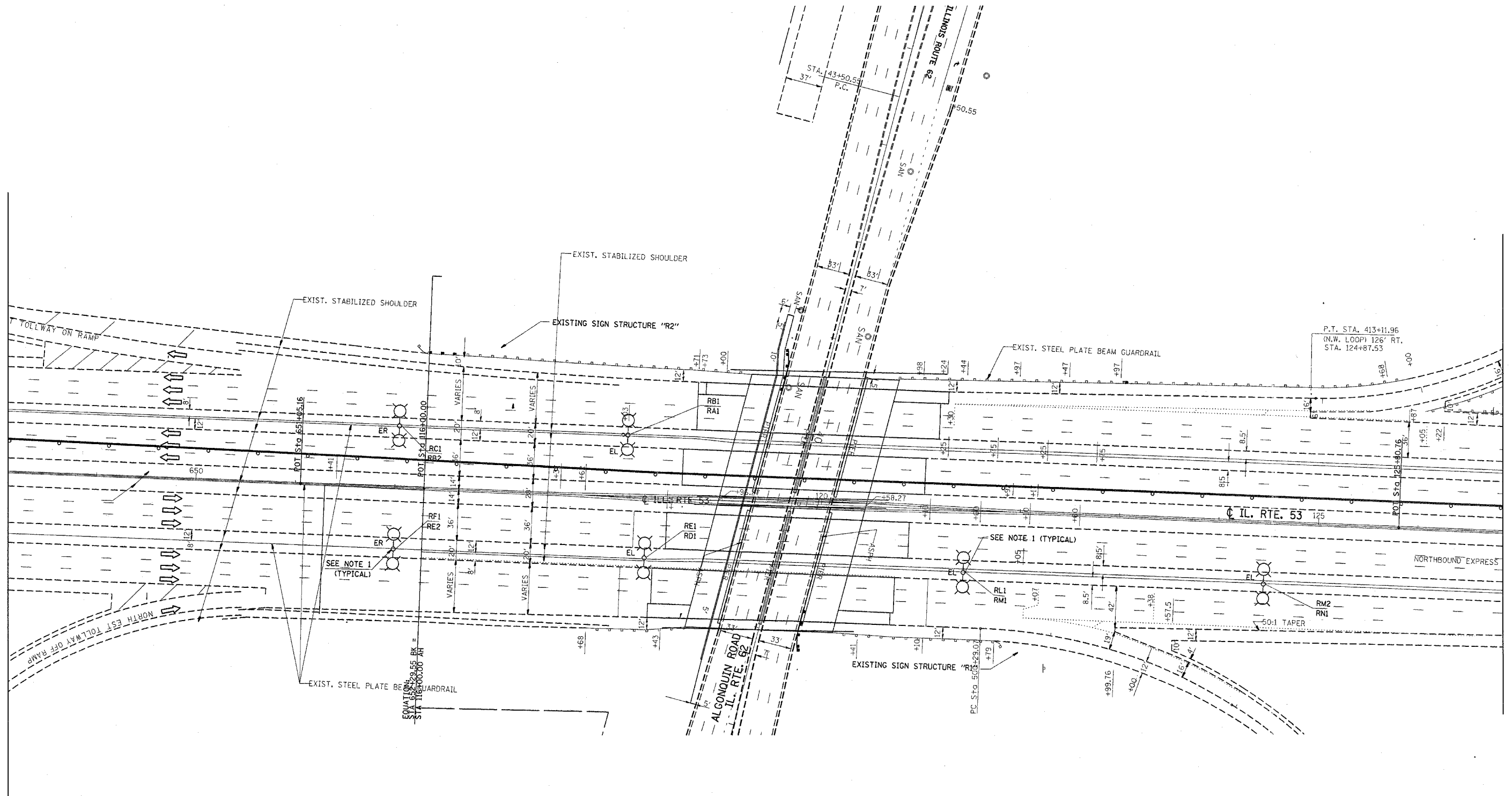
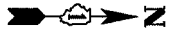
PLOT DATE = 4/17/2007  
 PLOT SCALE = 5/8"=1'-0"  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



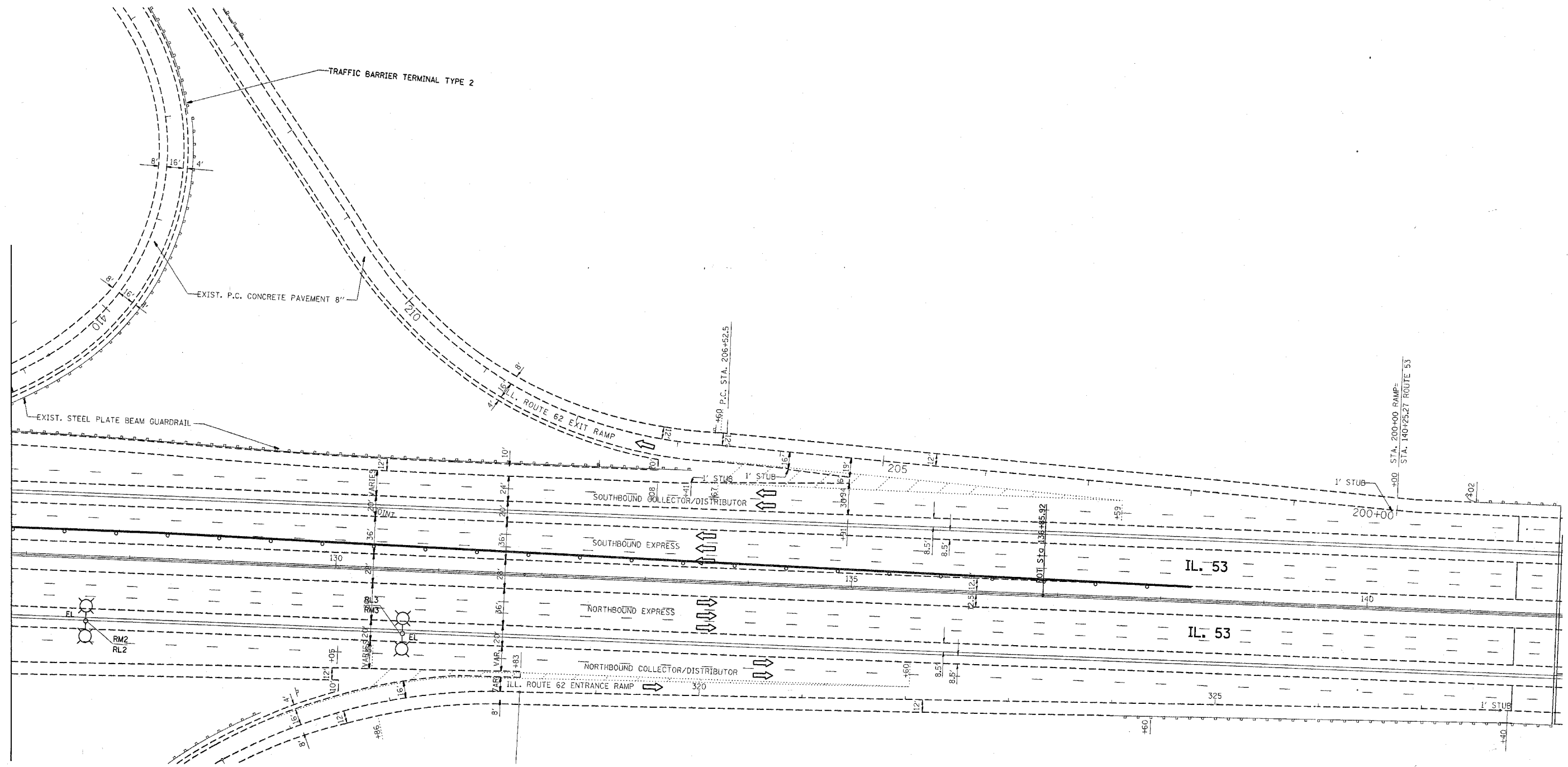
DATE = 4/17/2007  
 PLOT NAME = 4172807.dwg  
 PLOT SCALE = 51.0000 / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



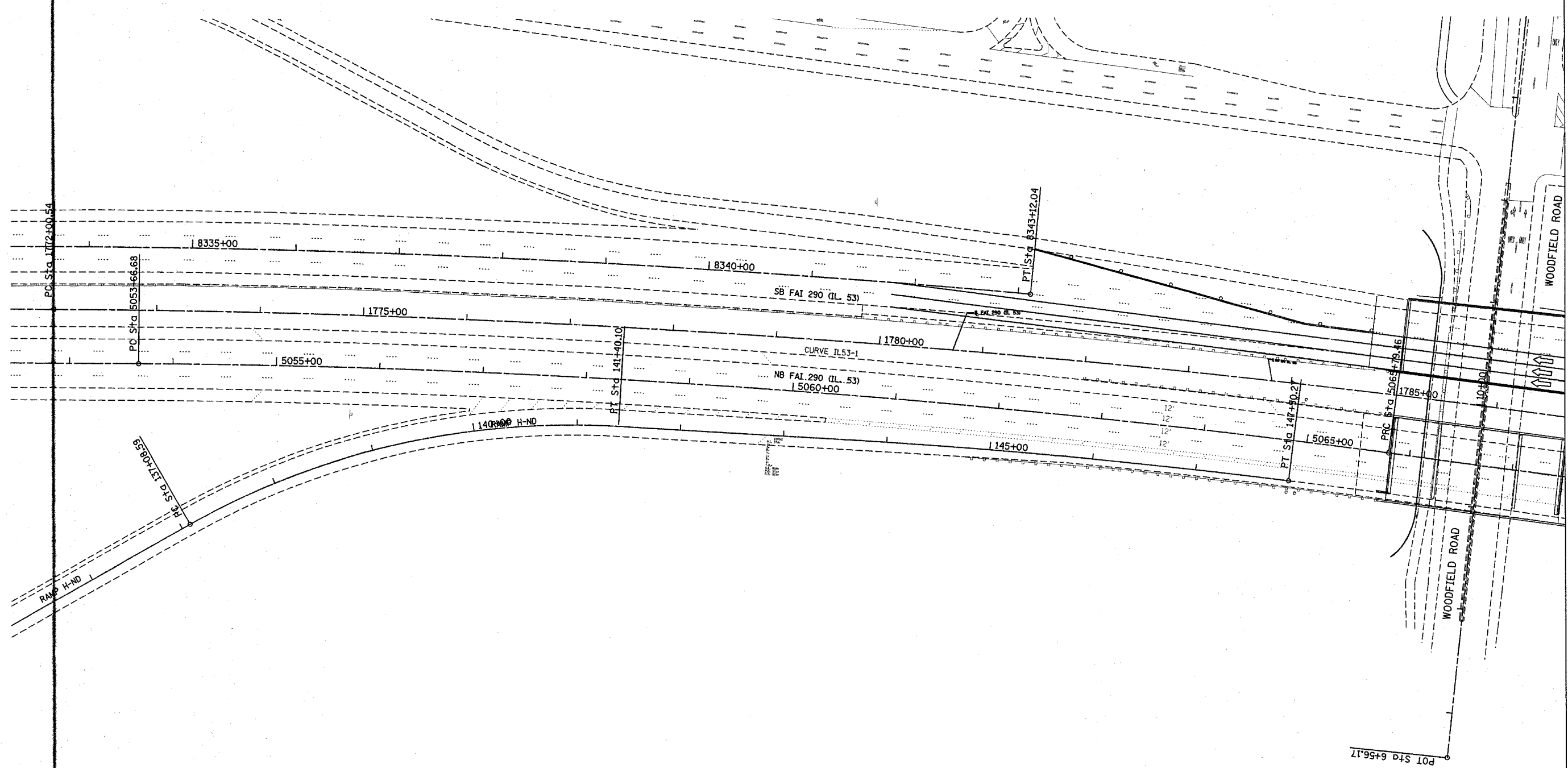
PLOT DATE = 4/17/2007  
 FILE NAME = c:\pvc\pvc\meta\142896\design\stage2.dgn  
 PLOT SCALE = 51.0000' / 1" / IN.  
 USER NAME = r1schump

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



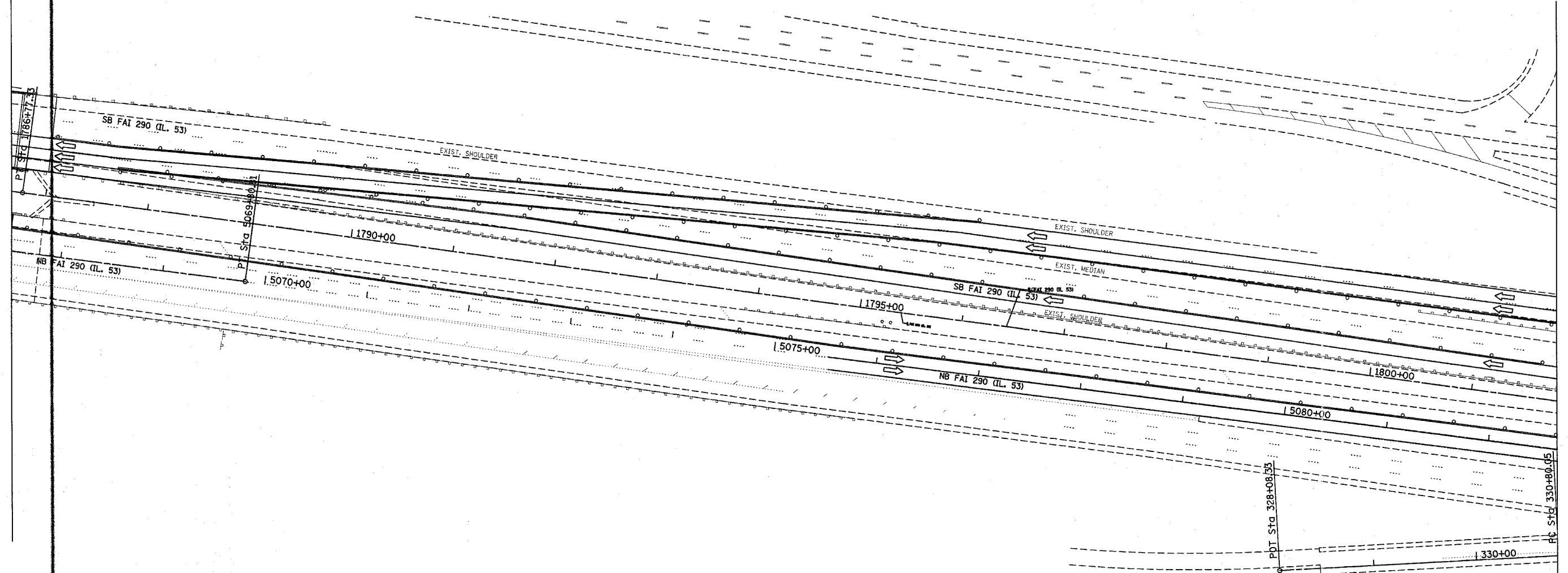
PLOT DATE = 4/17/2007  
 FILE NAME = c:\pvs\pvs\142886\design\stage2a.dgn  
 PLOT SCALE = 61.00000 / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. / HORIZ.  
 DATE / DRAWN BY / CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



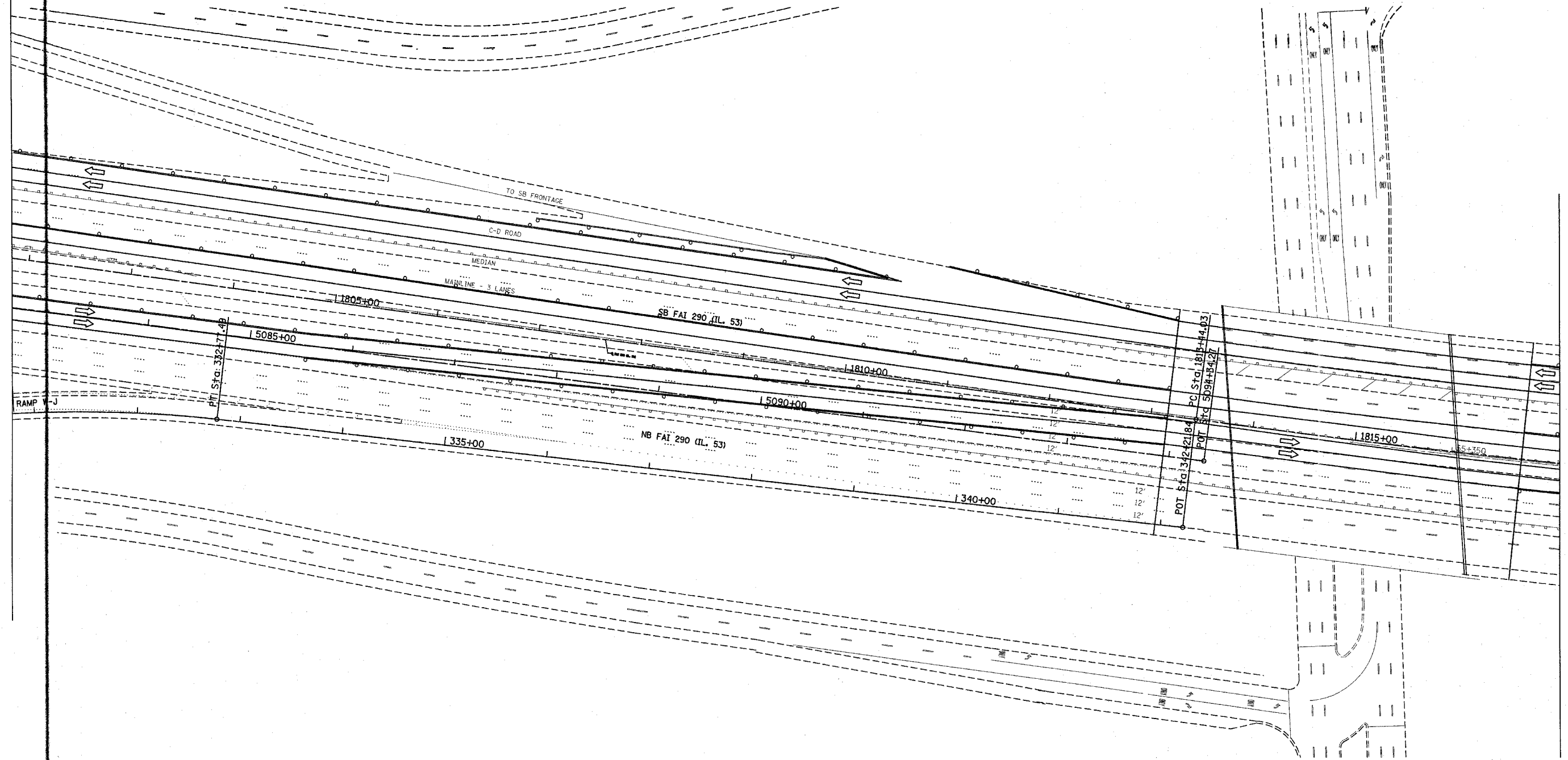
PLOT DATE = 4/17/2007  
 FILE NAME = c:\p\projects\42886\design\paa.dgn  
 PLOT SCALE = 61.8000 / IN.  
 USER NAME = rtschuro

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. / HORIZ.  
 DATE  
 DRAWN BY / CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID	PROJECT



PLOT DATE = 4/17/2007  
 FILE NAME = c:\projects\142886\design\p060.dgn  
 PLOT SCALE = 5/16/880 // IN.  
 USER NAME = r1schiano

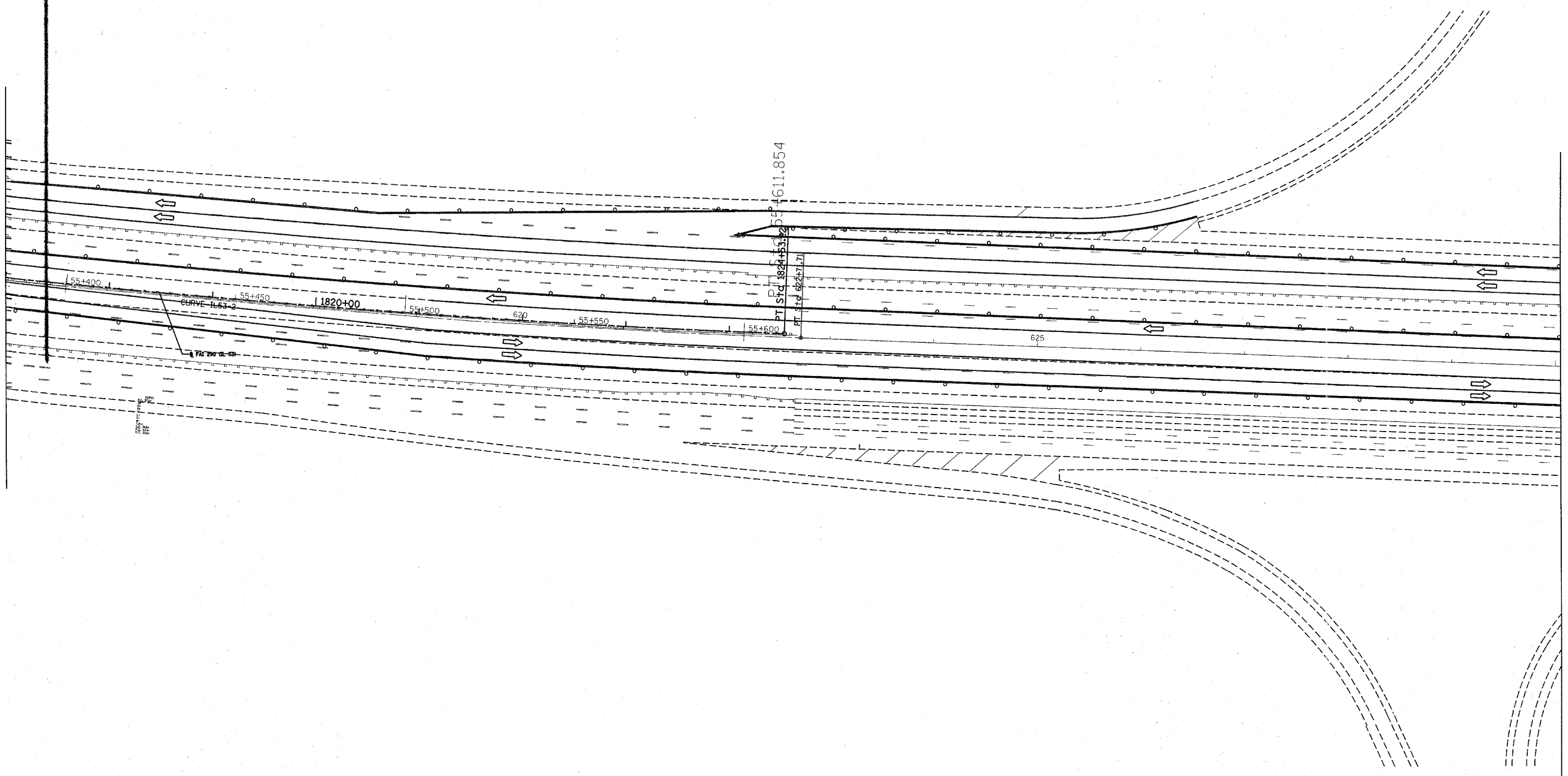
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	200603D1	COOK	78	33
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 4/17/2007  
 FILE NAME = c:\pcc\sec\412286\design.dgn  
 PLOT SCALE = 51.8000' / IN.  
 USER NAME = ritchie

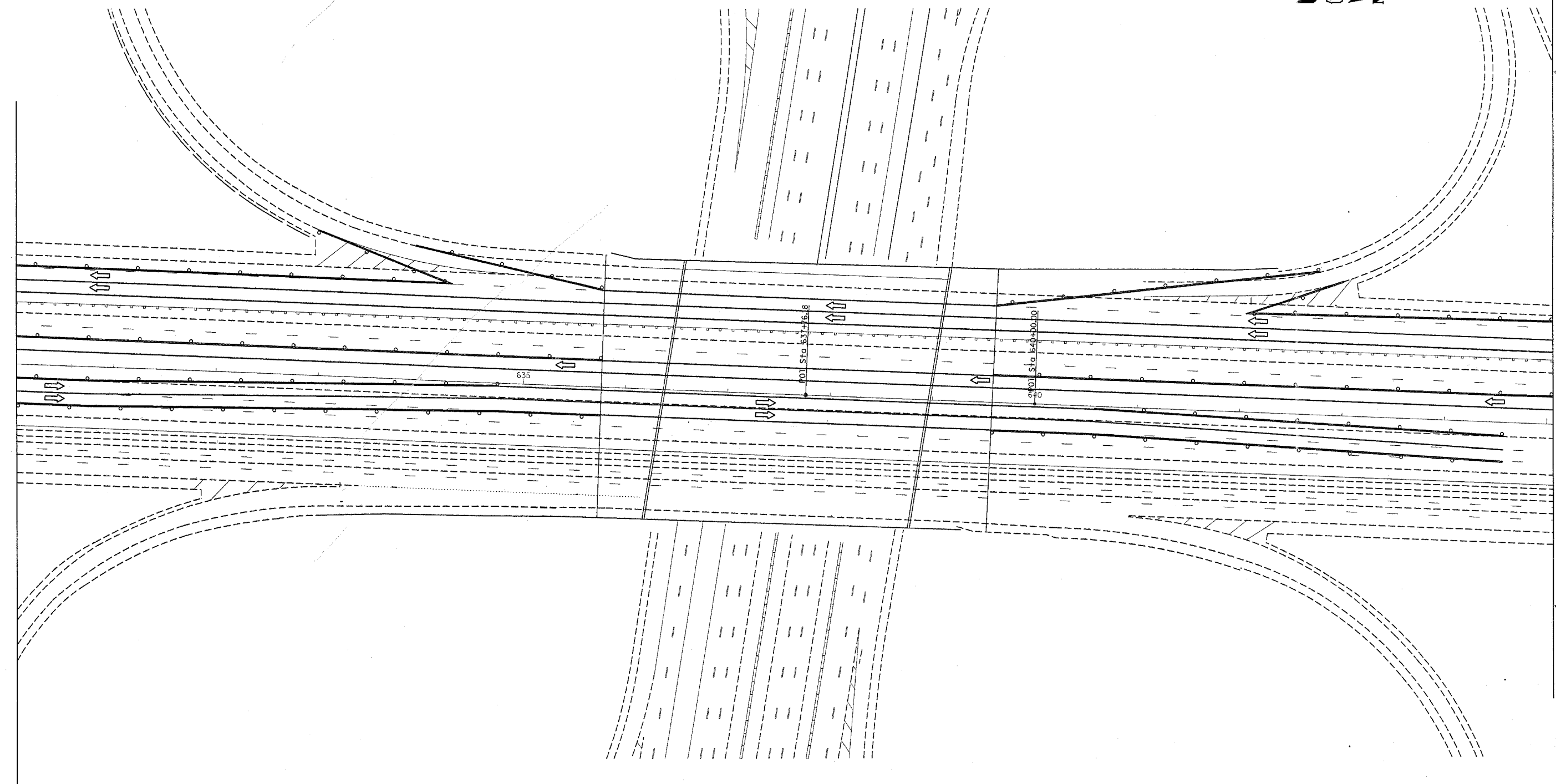
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



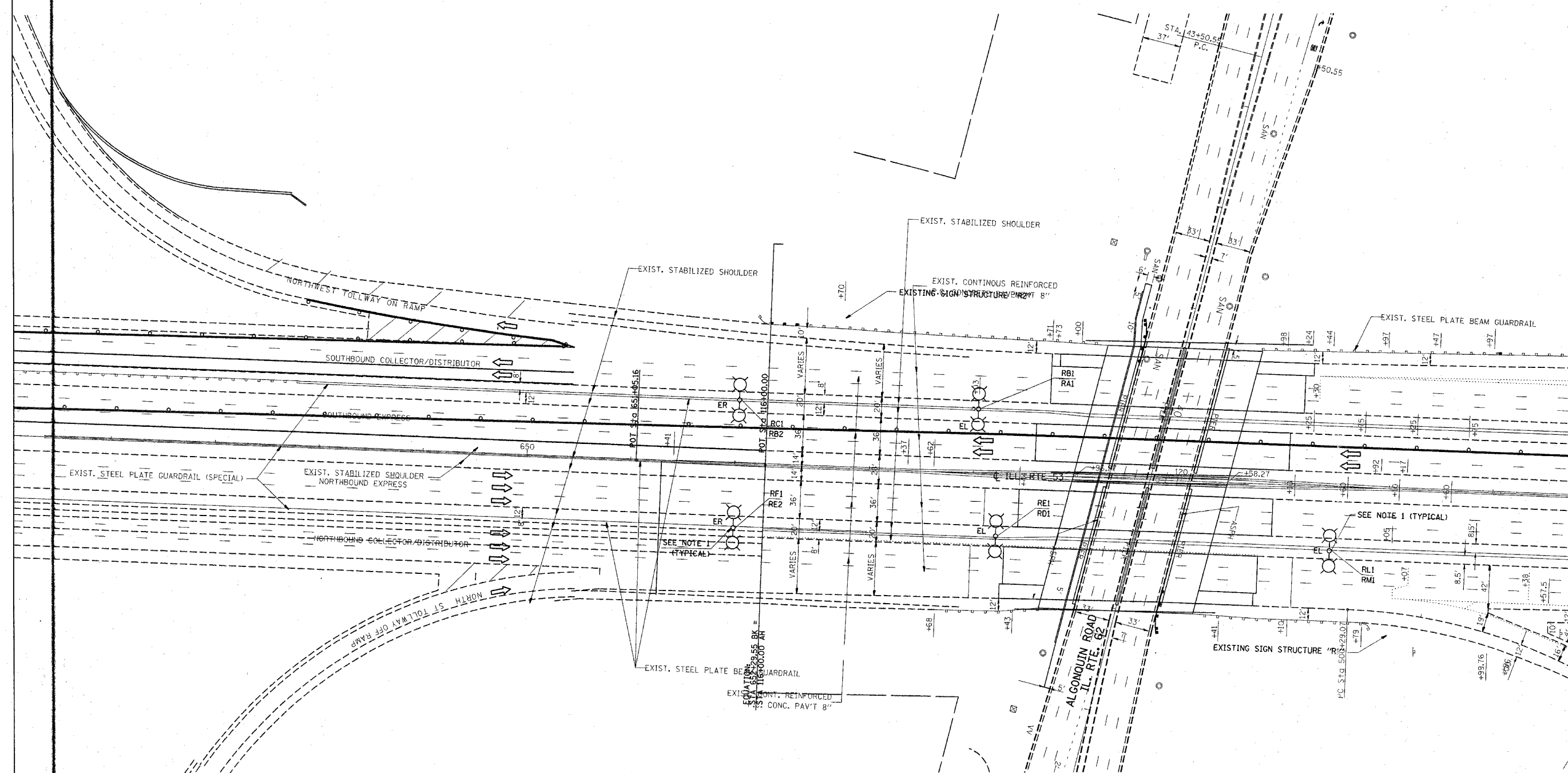
PLOT DATE = 4/17/2007  
 FILE NAME = c:\projects\ad42886\design\road.dgn  
 PLOT SCALE = 5/8"=1' / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

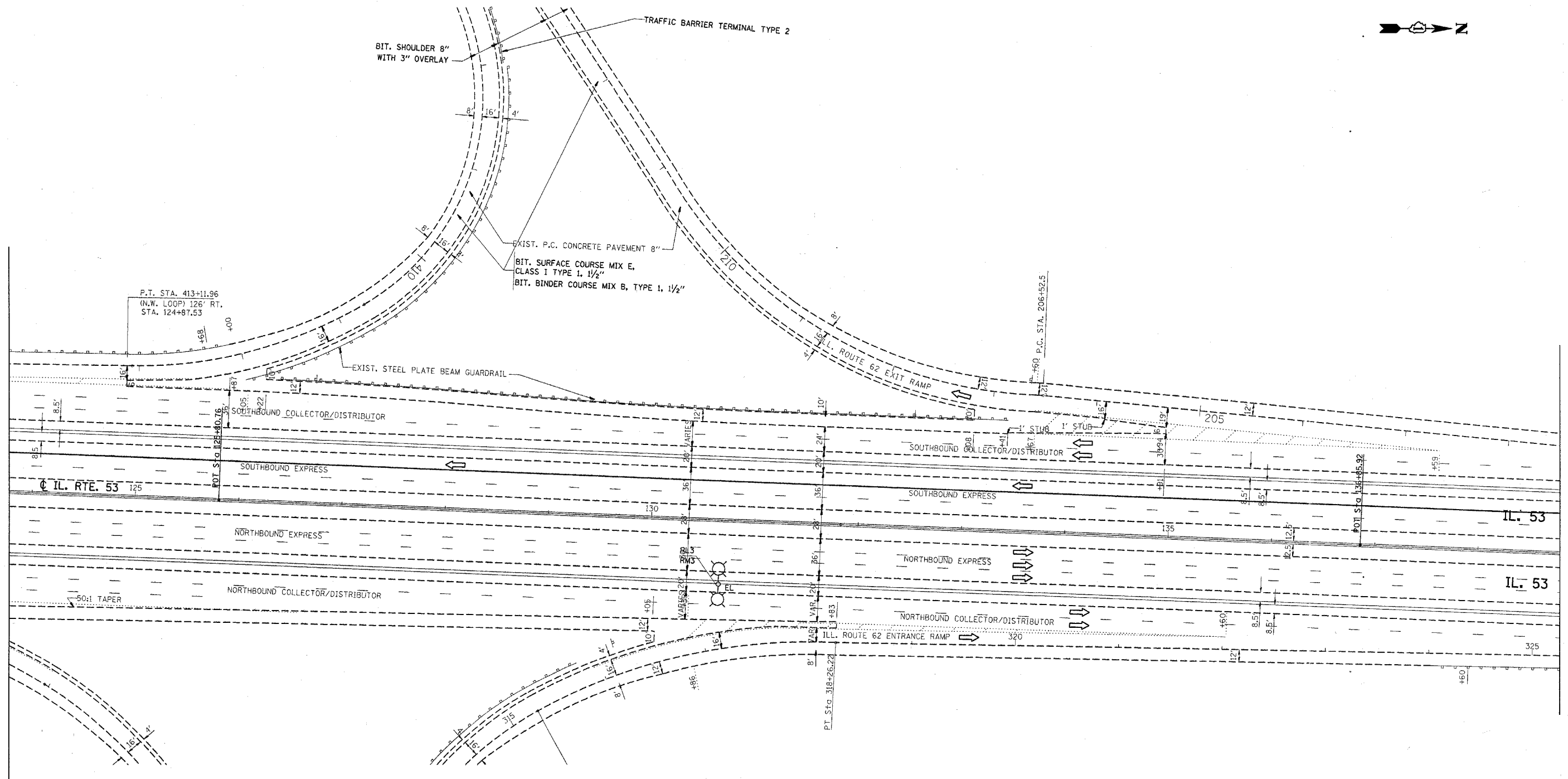
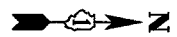


PLOT DATE = 4/17/2007  
FILE NAME = c:\p\projects\142885\design\stage2a.dgn  
PLOT SCALE = 1/8" = 1' IN.  
USER NAME = p142885

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL STAGING  
Stage 2A  
SCALE: VERT. 1" = 10'  
HORIZ. 1" = 40'  
DATE  
DRAWN BY  
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



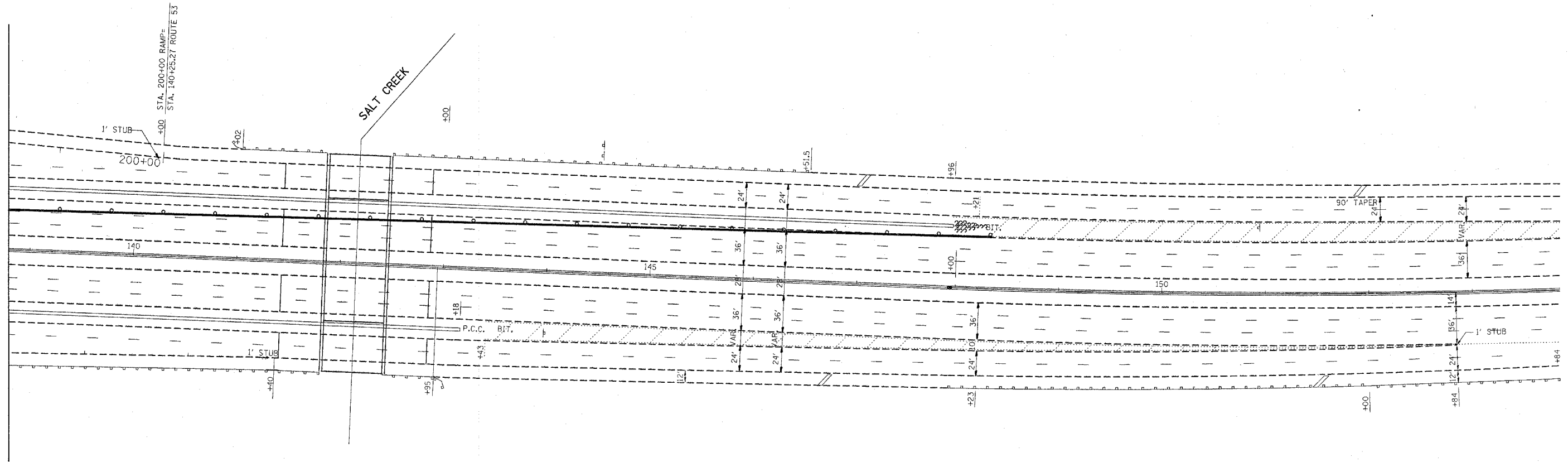
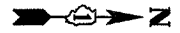
PLOT DATE = 4/17/2007  
 PLOT NAME = I:\projects\2006\2006-030\design\stage2a.dgn  
 PLOT SCALE = 51.8000' / IN.  
 USER NAME = p1schuero

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 4/17/2007  
 FILE NAME = c:\1144\114422065.dgn  
 PLOT SCALE = 51.0000 / IN.  
 USER NAME = ritchie

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL STAGING  
 Stage 2A

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

**EXISTING STRUCTURE: S.N. 016-0977**

BUILT IN 1970 AS A FOUR SPAN STRUCTURE CONSISTING OF TWO 60" WEB WELDED PLATE GIRDER SPANS AND TWO P.P.C. CONCRETE BEAM APPROACH SPANS CARRYING F.A.I. ROUTE 290 OVER THE NORTHWEST TOLLWAY.

SHEET S1 OF S34

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79

**SCOPE OF WORK:**

REMOVE THE EXIST. 1 3/4" HOT-MIX ASPHALT SURFACE & HYDRO-SCARIFY 3/4" OF THE CONCRETE SURFACE.

MARK AREAS OF FULL DEPTH REMOVAL.

PERFORM DECK SLAB REPAIRS.

REMOVE PARAPET HANDRAIL, PERFORM PARAPET REPAIRS AND CONSTRUCT CONCRETE PARAPET EXTENSIONS.

REMOVE GUARDRAIL AND REPLACE WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.

RESEAL OR RECONSTRUCT TRANSVERSE EXPANSION JOINTS, LONGITUDINAL JOINTS AND EXTEND FLOOR DRAINS.

PLACE A 2 1/2" LATEX CONCRETE OVERLAY.

CLEAN DRAINAGE SYSTEM.

PERFORM SUBSTRUCTURE AND SLOPEWALL REPAIRS.

**SOUTHBOUND ROADWAY**

**LOCAL LANES**

**SOUTHBOUND ROADWAY**

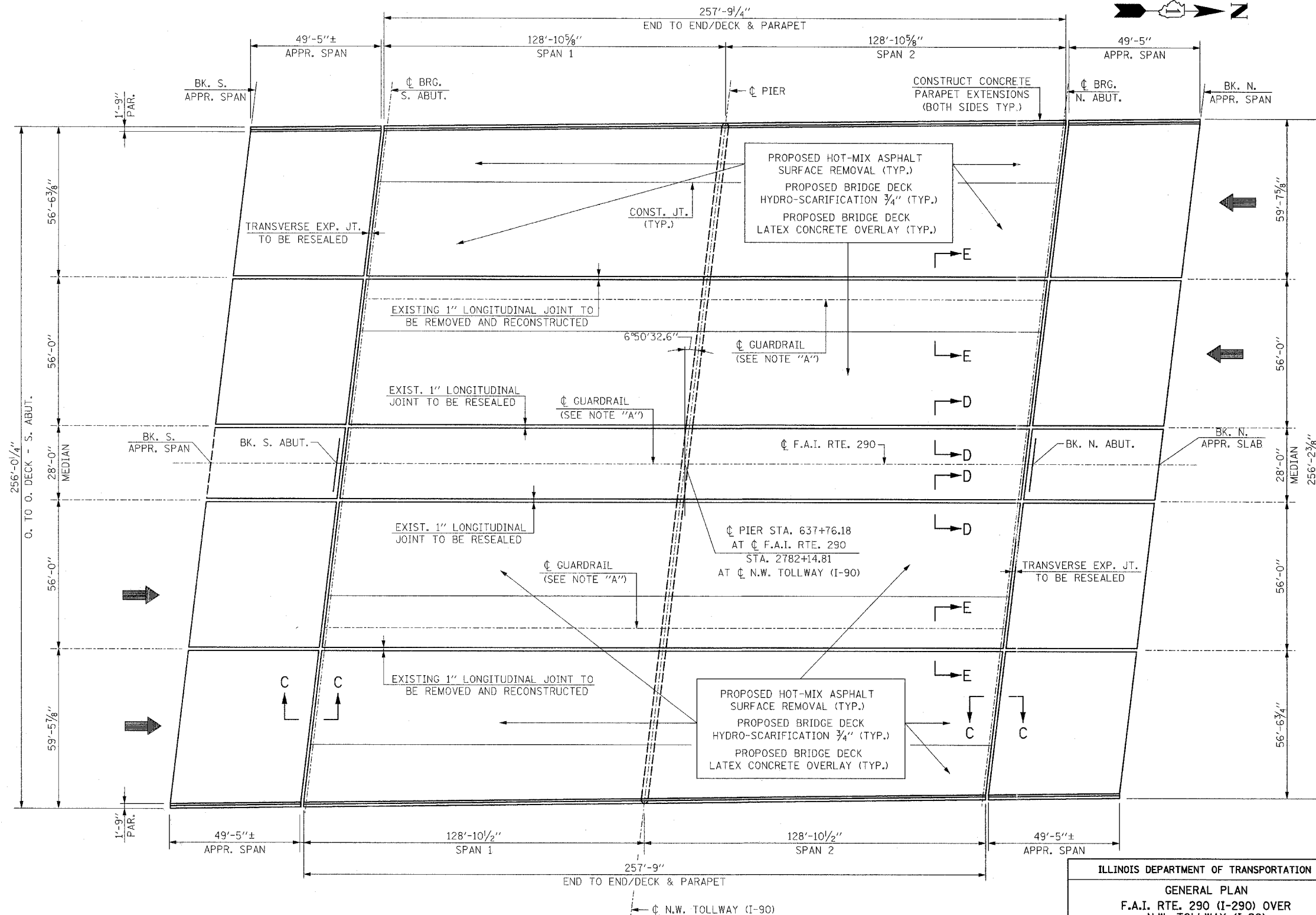
**EXPRESS LANES**

**NORTHBOUND ROADWAY**

**EXPRESS LANES**

**NORTHBOUND ROADWAY**

**LOCAL LANES**



PLAN

**NOTES:**

FOR SECTIONS C-C AND D-D SEE SHT. S10

FOR SECTION E-E SEE SHT. S11

**NOTE "A":**

GUARDRAIL IS TO BE REMOVED AND REPLACED WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
F.A.I. RTE. 290 (I-290) OVER  
N.W. TOLLWAY (I-90)  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 637+76.18  
STRUCTURE NO. 016-0977

SCALE:  
DATE: MAY 10, 2007

DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

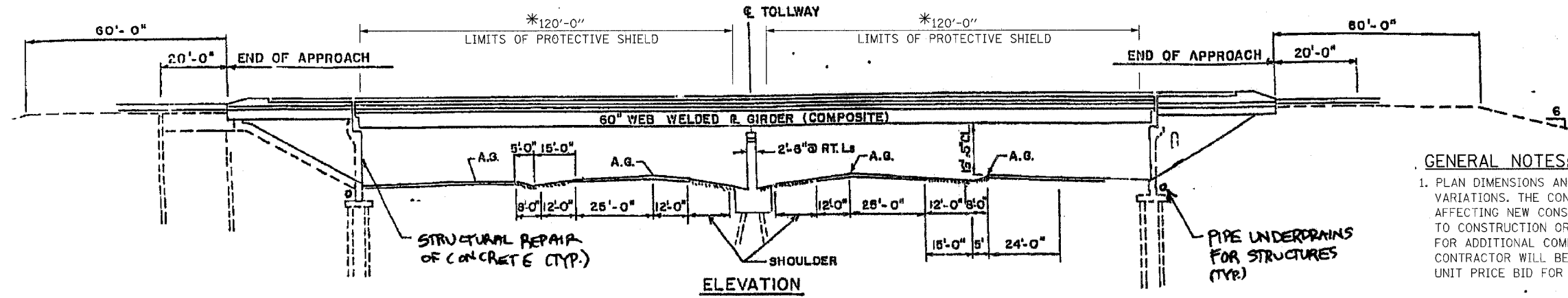


*Jeffrey C. Najdowski*  
JEFFREY C. NAJDOWSKI  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS LIC. NO. 081-006006  
EXPIRES: 11-30-08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	39
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60B79

\* EXISTING PROTECTIVE SHIELD BETWEEN GIRDERS ① & ②, ② & ③, ③ & ④, ⑪ & ⑫, ⑮ & ⑯ AND ⑳ & ㉑ MAY BE RE-USED.



**GENERAL NOTES:**

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
2. THE CONTRACTOR MUST USE EXTREME CAUTION DURING CONCRETE REMOVAL AND MUST NOT NICK, CUT OR DAMAGE IN ANY WAY, ANY OF THE STEEL BEAMS. THE EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 36 UNLESS OTHERWISE NOTED.
4. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
5. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706, GR. 60 (IL. MODIFIED). SEE SPECIAL PROVISIONS.
6. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
7. EXISTING CLOSED DRAINAGE SYSTEM DECK DRAINS ARE CLOGGED. UNCLOGGING DRAINS IS INCLUDED WITH "CLEANING DRAINAGE SYSTEM."

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ. YD.	9,733
PROTECTIVE SHIELD	SQ. YD.	5,600
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	597
EPOXY CRACK INJECTION	LF	211
PIPE UNDERDRAINS FOR STRUCTURES 4"	FT.	726
SILICONE JOINT SEALER, 1"	FT.	714
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ. YD.	9,733
SILICONE JOINT SEALER, 2 3/4"	FT.	516
BRIDGE DECK HYDRO-SCARIFICATION 3/4"	SQ. YD.	9,733
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	30
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	255
MODIFY EXISTING CONNECTION TO SIGN STRUCTURE	EACH	8
REINFORCEMENT BARS, EPOXY COATED	LB.	25,690
CONCRETE SUPERSTRUCTURE	CU. YD.	119
GUARDRAIL REMOVAL	FT.	1,070
TEMPORARY CONCRETE BARRIER	FT.	1,427
RELOCATE TEMPORARY CONCRETE BARRIER	FT.	2,140
CONCRETE BARRIER, DOUBLE FACE, 42 IN.	FT.	1,070
CONCRETE REMOVAL	CU. YD.	85
CLEANING DRAINAGE SYSTEM	L. SUM	1

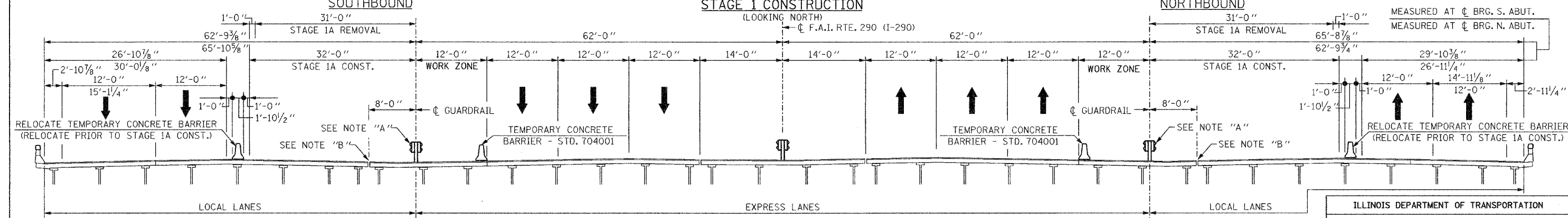
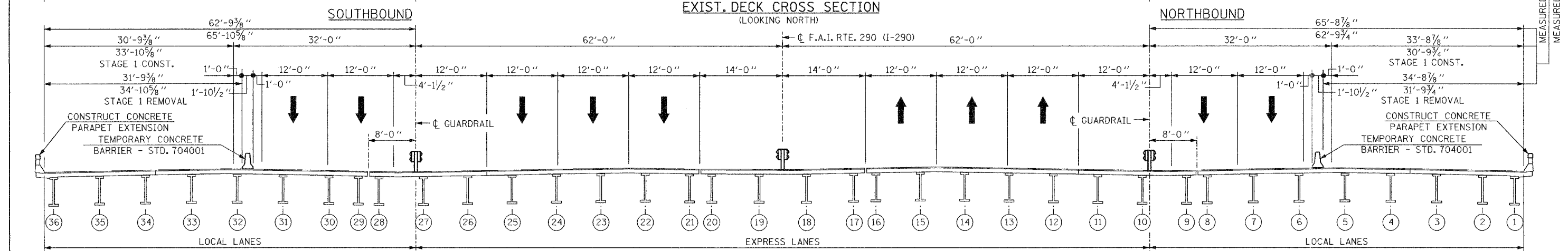
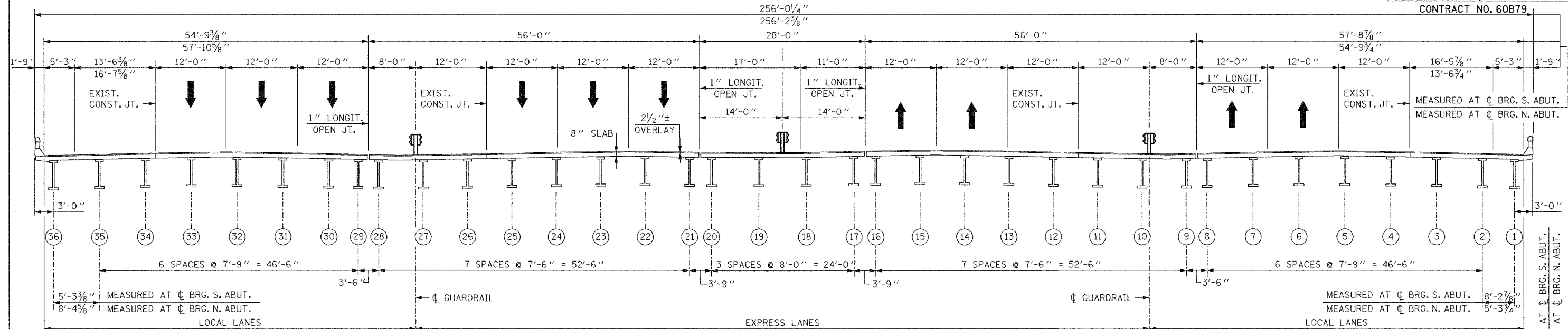
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ELEVATION AND GENERAL NOTES  
 F.A.I. RTE. 290 (I-290) OVER  
 N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
 STRUCTURE NO. 016-0977

SCALE: DRAWN BY: D.L./F.M.  
 DATE: MAY 10, 2007 CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

CONTRACT NO. 60B79



**NOTE "A"**  
REMOVE GUARDRAIL & REPLACE WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.

**NOTE "B"**  
EXIST. 1" LONGITUDINAL JOINT TO BE REMOVED AND RECONSTRUCTED

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
TEMPORARY CONCRETE BARRIER	FT.	1,427
RELOCATE TEMPORARY CONCRETE BARRIER	FT.	2,140

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXIST. DECK CROSS SECTION & STAGING  
F.A.I. RTE. 290 (I-290) OVER  
N.W. TOLLWAY (I-90)  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 637+76.18  
STRUCTURE NO. 016-0977

SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

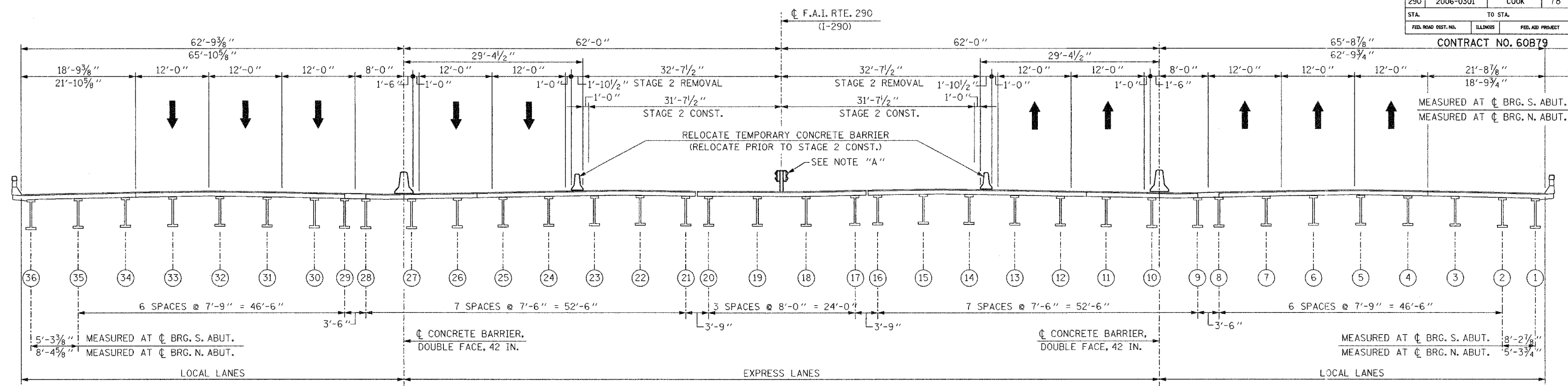
CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

D-91-428-06



F.A.I. RTE. 290	SECTION 2006-0301	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 41
STA. TO STA.		FED. AID PROJECT		

CONTRACT NO. 60B79

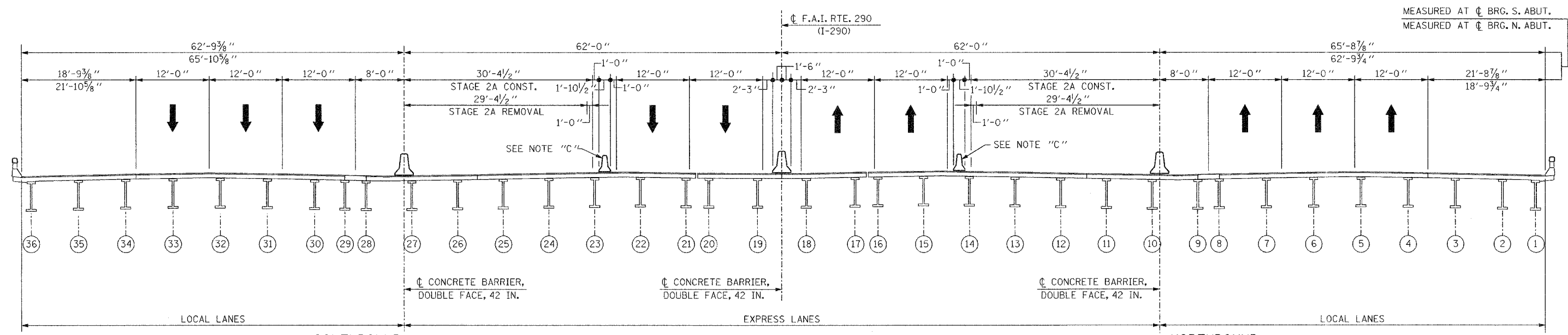


SOUTHBOUND

STAGE 2 CONSTRUCTION  
(LOOKING NORTH)

NORTHBOUND

NOTE "A"  
REMOVE GUARDRAIL & REPLACE WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.



SOUTHBOUND

STAGE 2A CONSTRUCTION  
(LOOKING NORTH)

NORTHBOUND

NOTE "C"  
RELOCATE TEMPORARY CONCRETE BARRIER (RELOCATE PRIOR TO STAGE 2A CONST.)

REVISIONS	
NAME	DATE

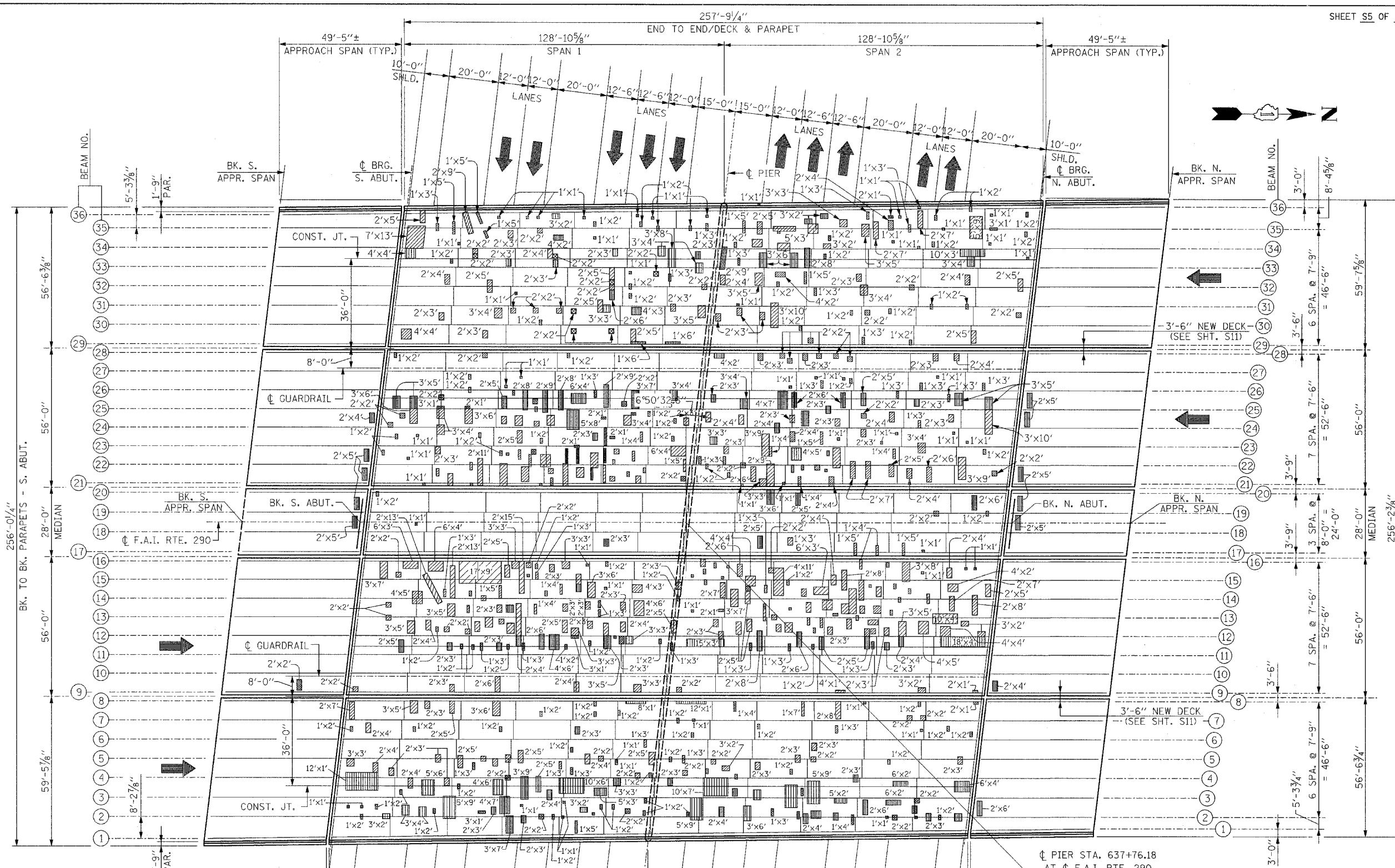
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXIST. DECK CROSS SECTION & STAGING  
 F.A.I. RTE. 290 (I-290) OVER  
 N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
 STRUCTURE NO. 016-0977

SCALE: DRAWN BY: D.L./F.M.  
 DATE: MAY 10, 2007 CHECKED BY: B.N.S./J.C.M.

CHRISTIAN-ROGE & ASSOC., INC.  
 CHICAGO ILLINOIS

FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT
290	2006-0301	COOK 70
SECTION		COUNTY
290		COOK
TOTAL SHEETS		SHEET NO.
70		42

CONTRACT NO. 60B79



SOUTHBOUND ROADWAY  
LOCAL LANES

SOUTHBOUND ROADWAY  
EXPRESS LANES

NORTHBOUND ROADWAY  
EXPRESS LANES

NORTHBOUND ROADWAY  
LOCAL LANES

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	30
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	255

**NOTE:**  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL AND MUST BE VERIFIED BY THE RESIDENT ENGINEER

PIER STA. 637+76.18  
AT F.A.I. RTE. 290  
STA. 2782+14.81  
AT N.W. TOLLWAY (I-90)

\* DECK SLAB PARTIAL REPAIR PATCHES ARE SHOWN FOR INFORMATION ONLY

**LEGEND:**

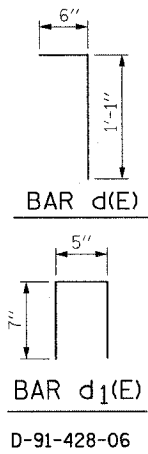
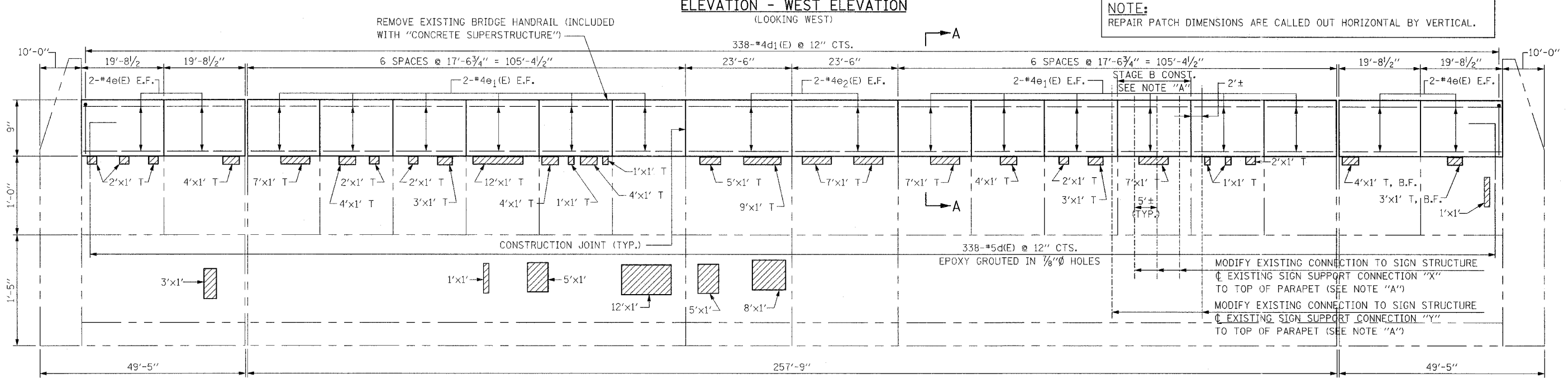
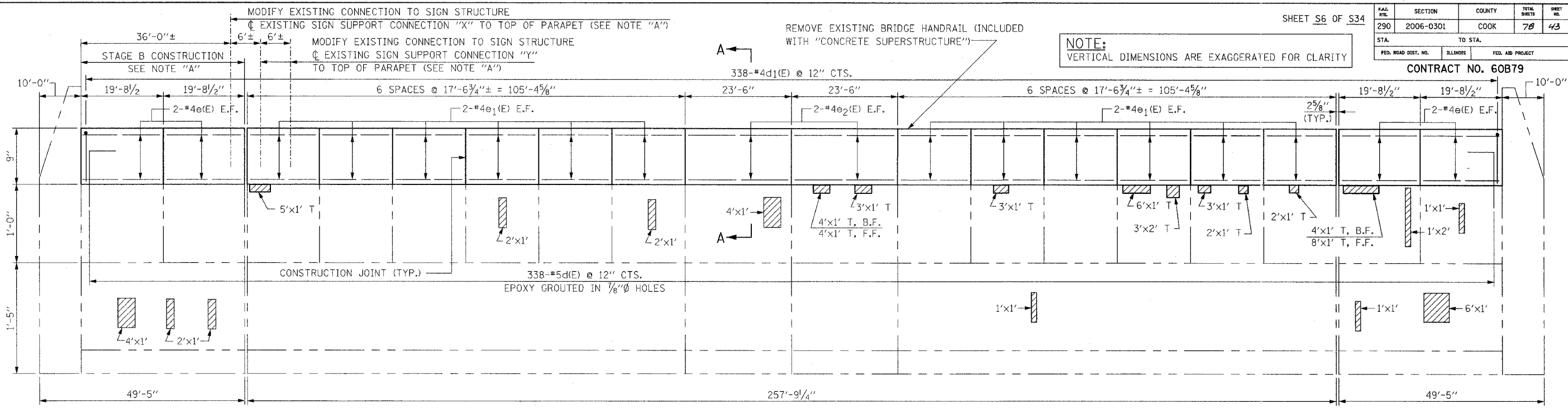
- DECK SLAB REPAIR (PARTIAL)
- DECK SLAB REPAIR (FULL DEPTH, TYPE I)
- DECK SLAB REPAIR (FULL DEPTH, TYPE II)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BRIDGE DECK PATCHING**  
F.A.I. RTE. 290 (I-290) OVER  
N.W. TOLLWAY (I-90)  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 637+76.18  
STRUCTURE NO. 016-0977

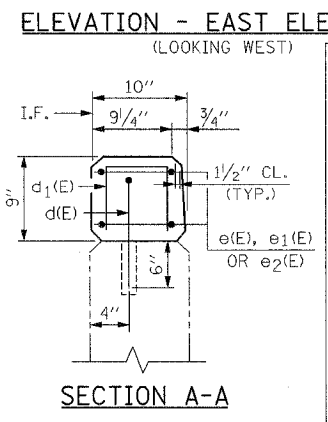
SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS



REINFORCEMENT BAR SCHEDULE				
BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	676	#5	1'-7"	└
d <sub>1</sub> (E)	676	#4	1'-7"	└
e(E)	32	#4	19'-4"	—
e <sub>1</sub> (E)	96	#4	17'-2"	—
e <sub>2</sub> (E)	16	#4	23'-2"	—

NOTES:  
PERFORM T/PARAPET REPAIRS PRIOR TO CONSTRUCTING PARAPET EXTENSIONS.  
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR NEW CONNECTIONS.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	259
CONCRETE SUPERSTRUCTURE	CU. YD.	15
REINFORCEMENT BARS, EPOXY COATED	LB.	3,590
MODIFY EXISTING CONNECTION TO SIGN STRUCTURE	EACH	8



**NOTE "A":**  
STAGE A: LEAVE IN PLACE SIGN STRUCTURE CONNECTIONS "X" TO TOP OF PARAPET AND REMOVE SIGN STRUCTURE CONNECTIONS "Y" TO TOP OF PARAPET. CONSTRUCT ALL PARAPET EXTENSIONS EXCEPT THOSE LABELLED STAGE B CONST. WHEN STAGE A CONCRETE F'c REACHES 3500PSI, INSTALL IN SAME LOCATION NEW CONNECTION FROM PARAPET TO SIGN SUPPORT AS PER STANDARD BM-1 THRU BM-3 (SPECIFICALLY AS IN DETAIL A SHT BM-3).  
STAGE B: REMOVE SIGN STRUCTURE CONNECTIONS "X" TO TOP OF PARAPET. CONSTRUCT ALL PARAPET EXTENSIONS LABELLED STAGE B CONST. WHEN STAGE B CONCRETE F'c REACHES 3500PSI, INSTALL IN SAME LOCATION NEW CONNECTION FROM PARAPET TO SIGN SUPPORT AS PER STANDARD BM-1 THRU BM-3 (AS IN DETAIL A SHT BM-3). INCL. W/"MODIFY EXISTING CONNECTION TO SIGN STRUCT."

**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")

T, F.F. = TOP & FRONT FACE

T, B.F. = TOP & BACK FACE

T = TOP

E.F. = EACH FACE

I.F. = INSIDE FACE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS

F.A.I. RTE. 290 (I-290) OVER N.W. TOLLWAY (I-90)

F.A.I. RTE. 290 SECTION: 2006-0301

COOK COUNTY STATION 637+76.18

STRUCTURE NO. 016-0977

REVISIONS	
NAME	DATE

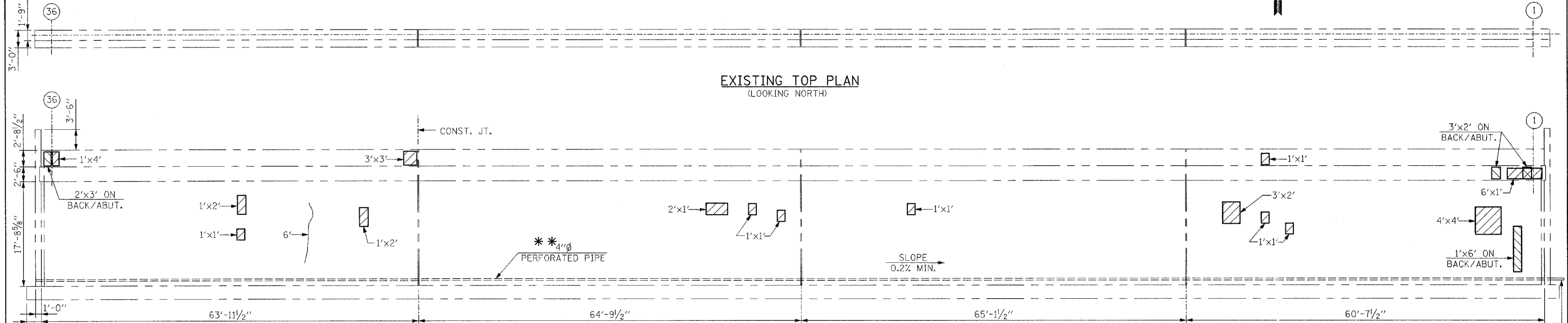
SCALE: DATE: MAY 10, 2007

DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

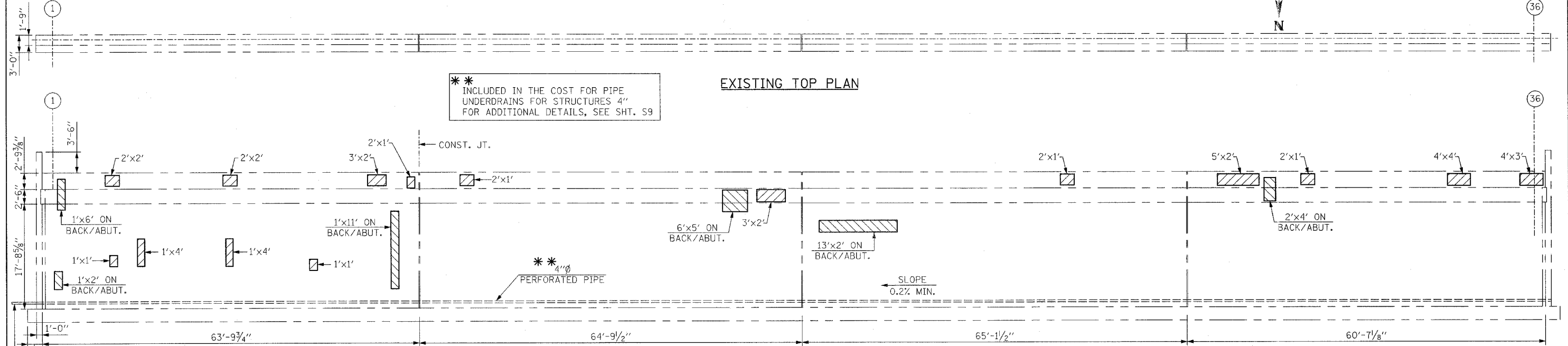
CHRISTIAN-ROGE & ASSOC., INC. CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	70	44
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79



EXISTING ELEVATION - NORTH ABUTMENT (LOOKING NORTH)



EXISTING ELEVATION - SOUTH ABUTMENT (LOOKING SOUTH)

\*\* 4" PIPE OUTLET TO LOW POINT APPROX. 80' AT 0.2% MIN. SLOPE REPLACE DAMAGED LANDSCAPING

**NOTES:**  
 CRACK WIDTHS ARE 1/8" ± 1/16" UNLESS OTHERWISE NOTED.  
 REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

**NOTE:**  
 SOUTH APPROACH SLAB BENT REPAIRS REQUIRED:  
 1. 2'x4' PATCH BETWEEN GIRDERS (17) & (18)  
 2. 5'x3' PATCH BETWEEN GIRDERS (29) & (30)

**NOTE:**  
 COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES, 4"

D-91-428-06

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	272
EPOXY CRACK INJECTION	FT.	7
PIPE UNDERDRAIN FOR STRUCTURES 4"	FT.	726

**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5") ON FRONT/ABUT.
- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5") ON BACK/ABUT.
- EPOXY CRACK INJECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ABUTMENT REPAIRS**  
 F.A.I. RTE. 290 (I-290) OVER N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
 STRUCTURE NO. 016-0977

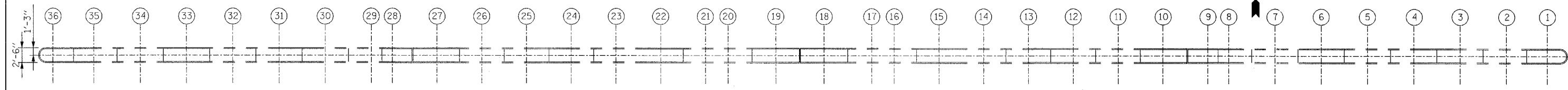
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 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

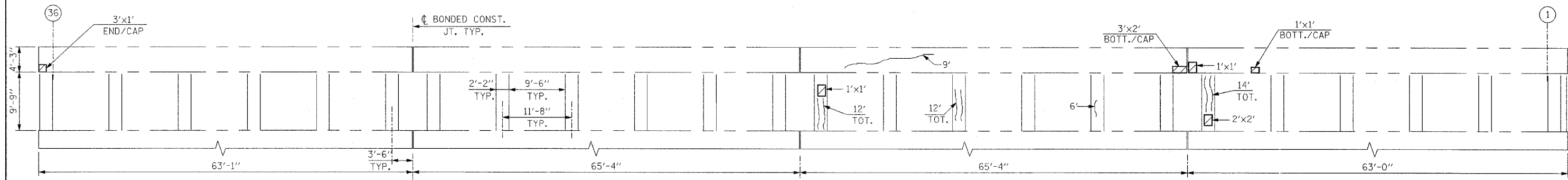
ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	45
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

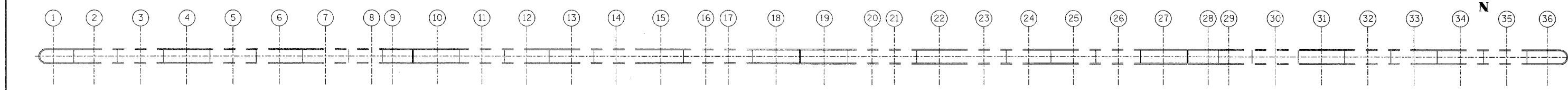
CONTRACT NO. 60B79



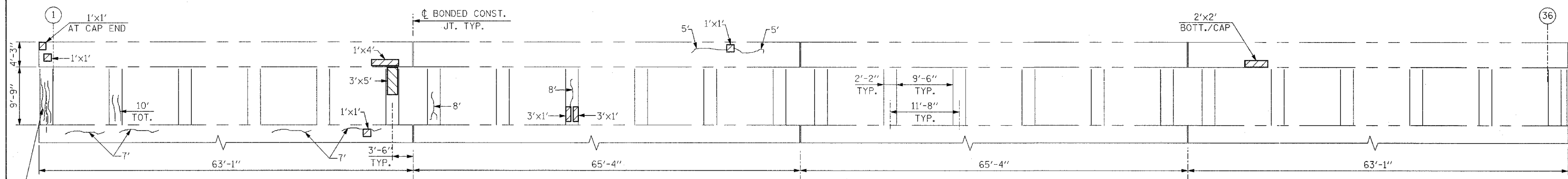
EXISTING TOP PLAN



EXISTING ELEVATION  
(LOOKING NORTH)



EXISTING TOP PLAN



EXISTING ELEVATION  
(LOOKING SOUTH)

- LEGEND:**
- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")
  - EPOXY CRACK INJECTION
  - TOT. TOTAL LENGTHS OF CRACKS PER COLUMN LOOKING EITHER NORTH OR SOUTH.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	56
EPOXY CRACK INJECTION	FT.	152

**NOTES:**  
 CRACK WIDTHS ARE 1/8" ± 1/16" UNLESS OTHERWISE NOTED.  
 REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

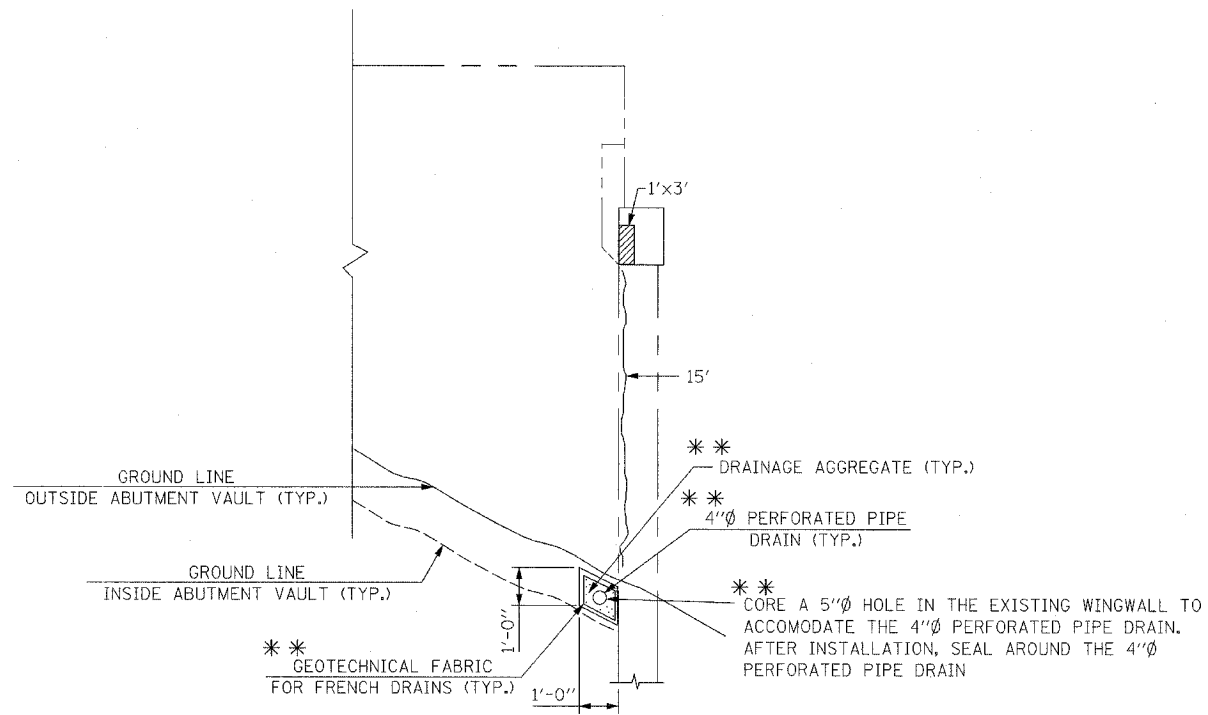
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PIER REPAIRS**  
 F.A.I. RTE. 290 (I-290) OVER  
 N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
 STRUCTURE NO. 016-0977

SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	46
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

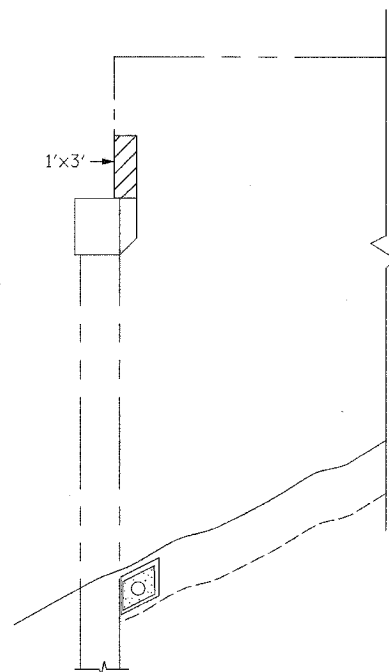
CONTRACT NO. 60B79



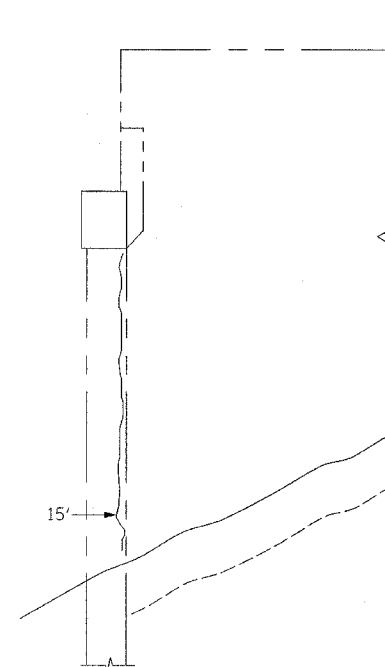
**WINGWALL ELEVATION  
SOUTH ABUTMENT-EAST  
(LOOKING WEST)**

\*\* INCLUDED IN THE COST FOR PIPE UNDERDRAINS FOR STRUCTURES 4"

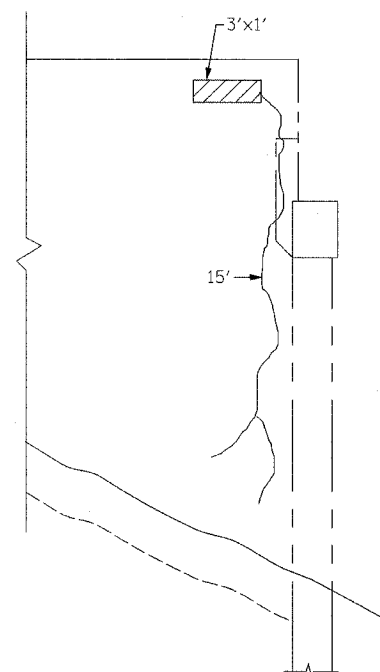
**NOTE:**  
SEE SHT. S7 FOR THE QUANTITIES OF PIPE UNDERDRAIN FOR STRUCTURES, 4"



**WINGWALL ELEVATION  
NORTH ABUTMENT-EAST  
(LOOKING WEST)**



**WINGWALL ELEVATION  
SOUTH ABUTMENT-WEST  
(LOOKING EAST)**



**WINGWALL ELEVATION  
NORTH ABUTMENT-WEST  
(LOOKING EAST)**

**NOTES:**  
CRACK WIDTHS ARE  $\frac{1}{8}'' \pm \frac{1}{16}''$  UNLESS OTHERWISE NOTED.  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	10
EPOXY CRACK INJECTION	FT.	52

**LEGEND:**  
 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")  
 EPOXY CRACK INJECTION

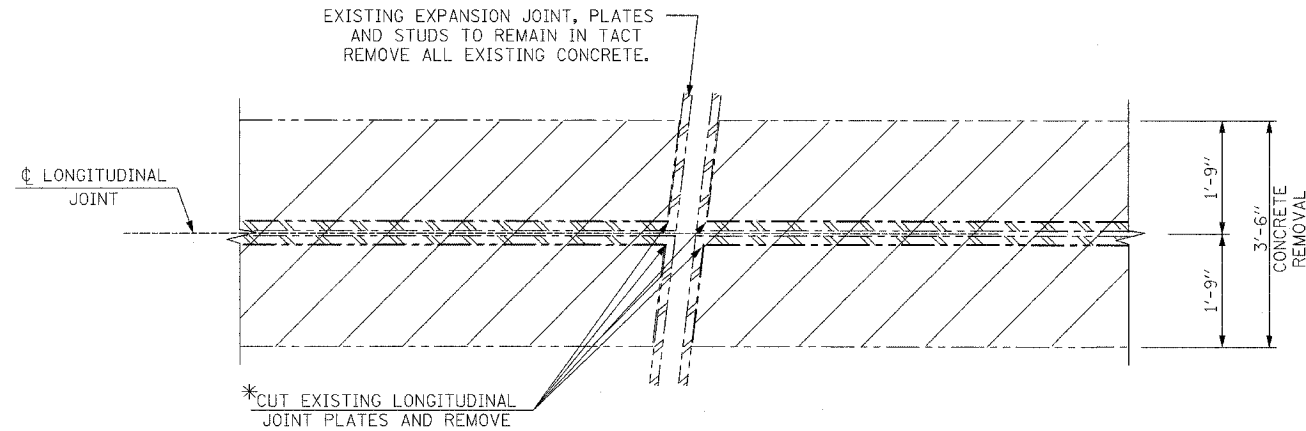
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**WINGWALL REPAIRS**  
 F.A.I. RTE. 290 (I-290) OVER  
 N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
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 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	47
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

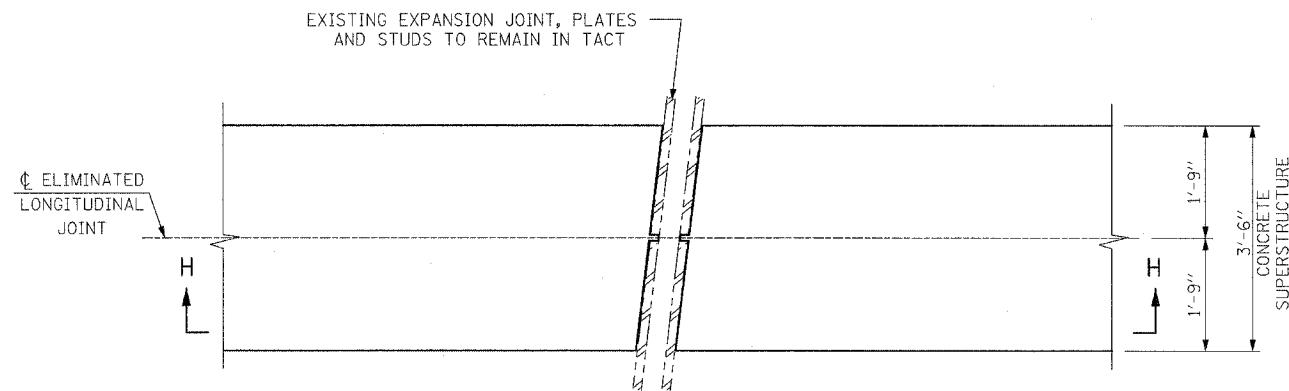
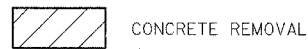
CONTRACT NO. 60B79

NOTE: WORK THIS SHEET WITH SHT. S11

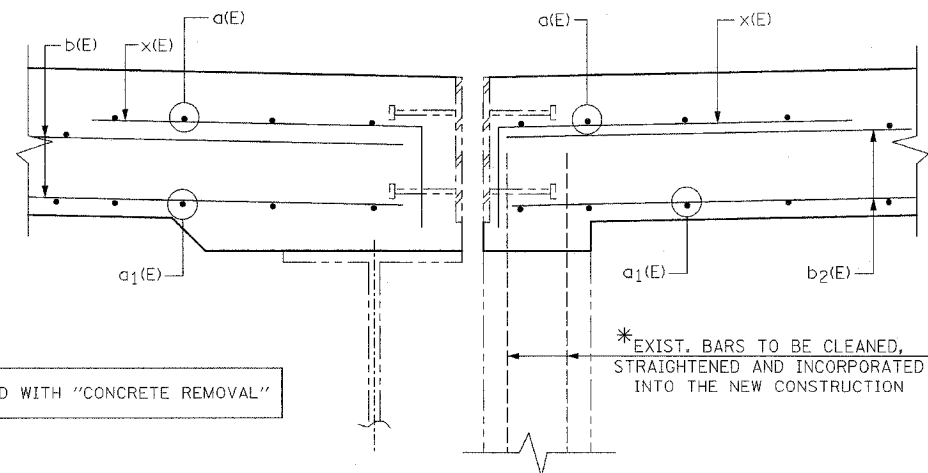


DETAIL "F"

LEGEND



DETAIL "G"



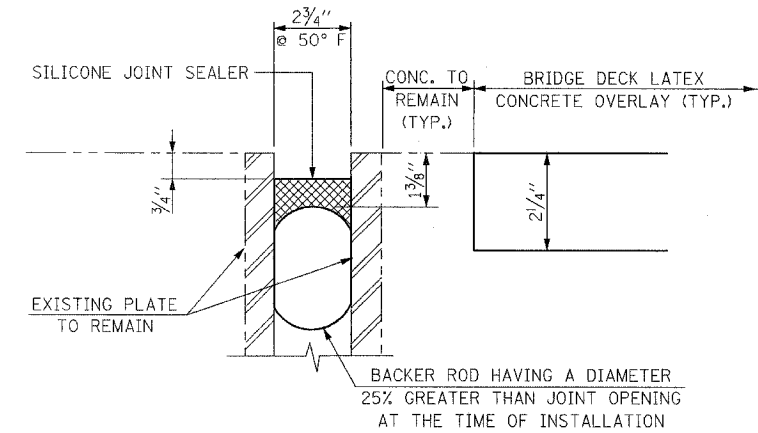
SECTION H-H

\* COST INCLUDED WITH "CONCRETE REMOVAL"

D-91-428-06

NOTES:

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
2. COST FOR REMOVAL OF EXISTING JOINT IS INCLUDED IN THE COST OF SILICONE JOINT SEALER.

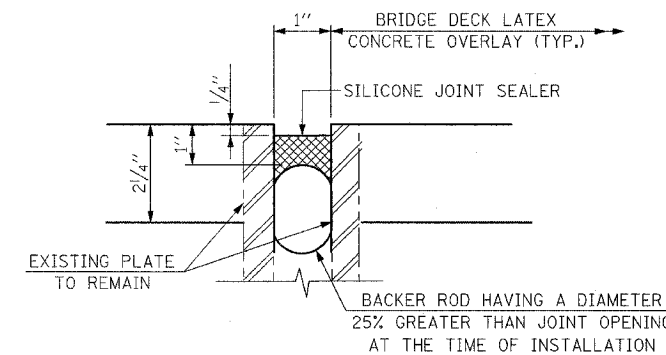


SECTION C-C

AT ABUTMENTS

(EXISTING PREFORMED JOINT SEAL-TRANVERSE EXPANSION JOINT)

LOCATION	JOINT OPENING	LENGTH OF SILICONE JOINT SEALER
NORTH ABUTMENT	2 3/4"	258'-0"
SOUTH ABUTMENT	2 3/4"	258'-0"
NEAR MEDIAN	1"	714'-0"



SECTION D-D

NEAR MEDIAN

(EXISTING LONGITUDINAL JOINTS)

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
SILICONE JOINT SEALER, 1"	FT.	714
SILICONE JOINT SEALER, 2 3/4"	FT.	516

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT RESEALING & DETAILS

F.A.I. RTE. 290 (I-290) OVER N.W. TOLLWAY (I-90)

F.A.I. RTE. 290 SECTION: 2006-0301

COOK COUNTY STATION 637+76.18

STRUCTURE NO. 016-0977

SCALE: DATE: MAY 10, 2007

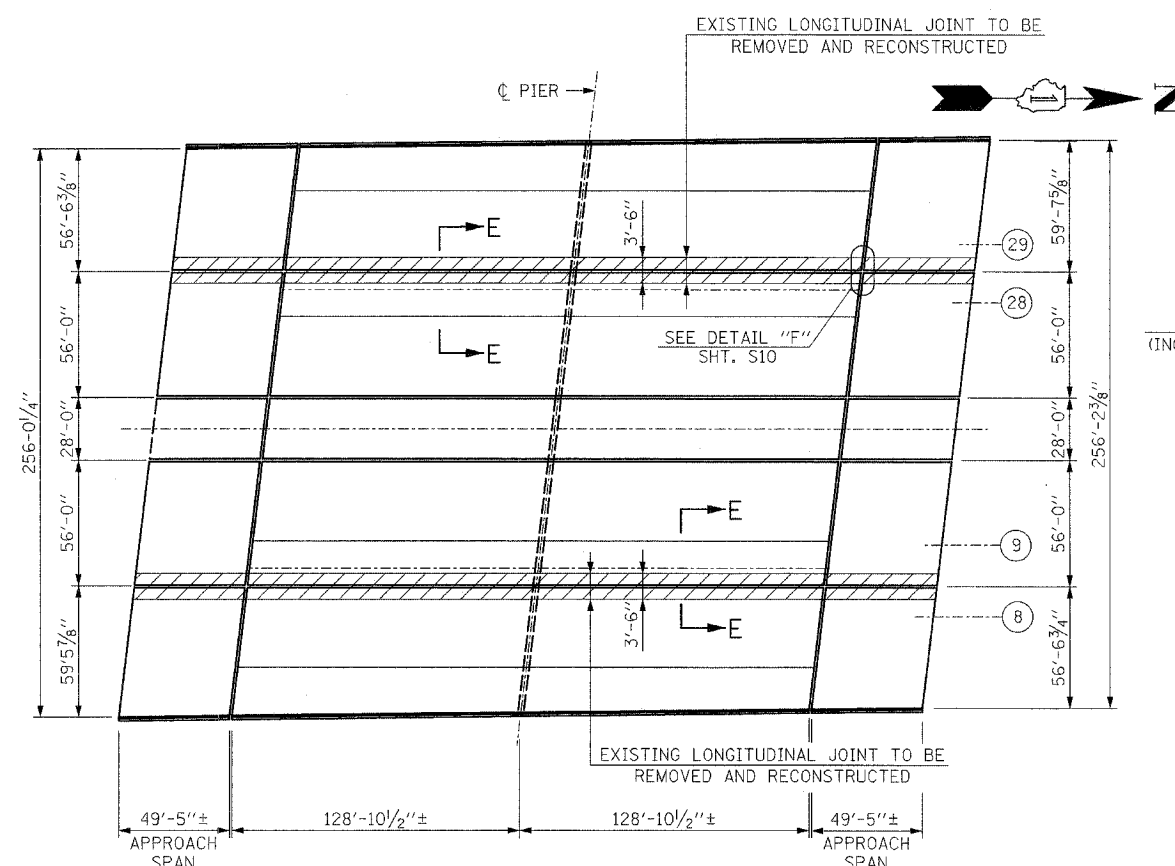
DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC. CHICAGO ILLINOIS

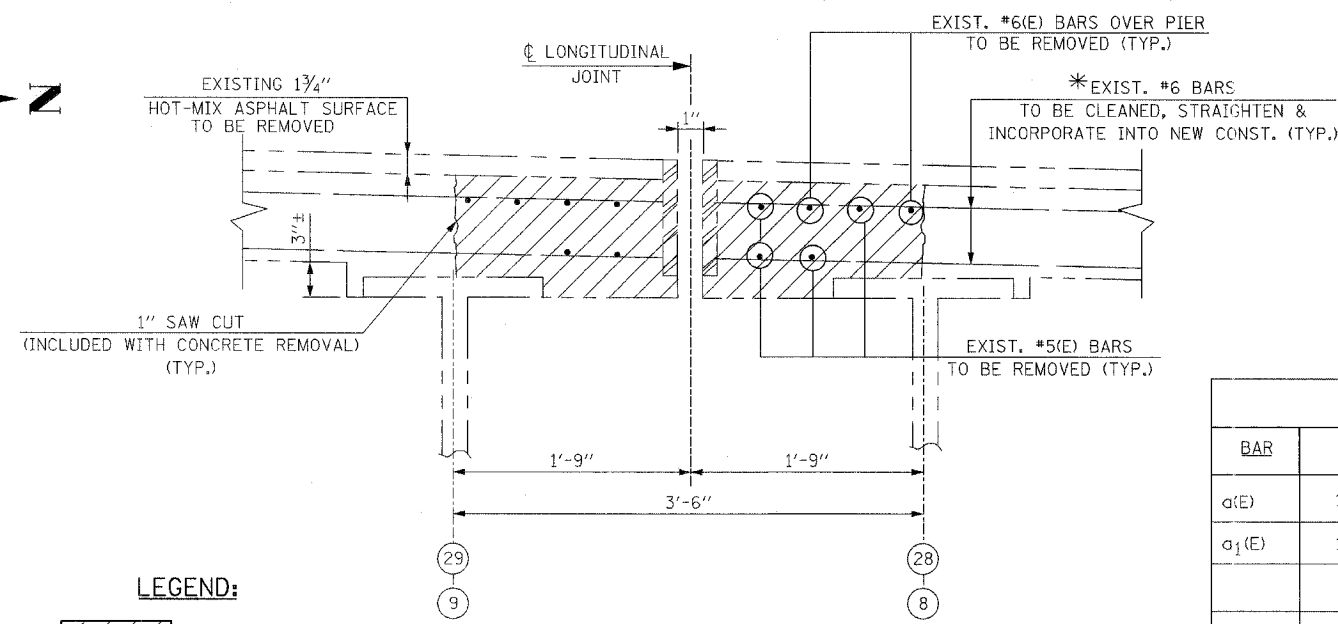
Your Revealings 8/10/2007 1:25:06 PM

FALL ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	48
STA.	TO STA.		FED. AID PROJECT	

CONTRACT NO. 60B79



DECK PLAN

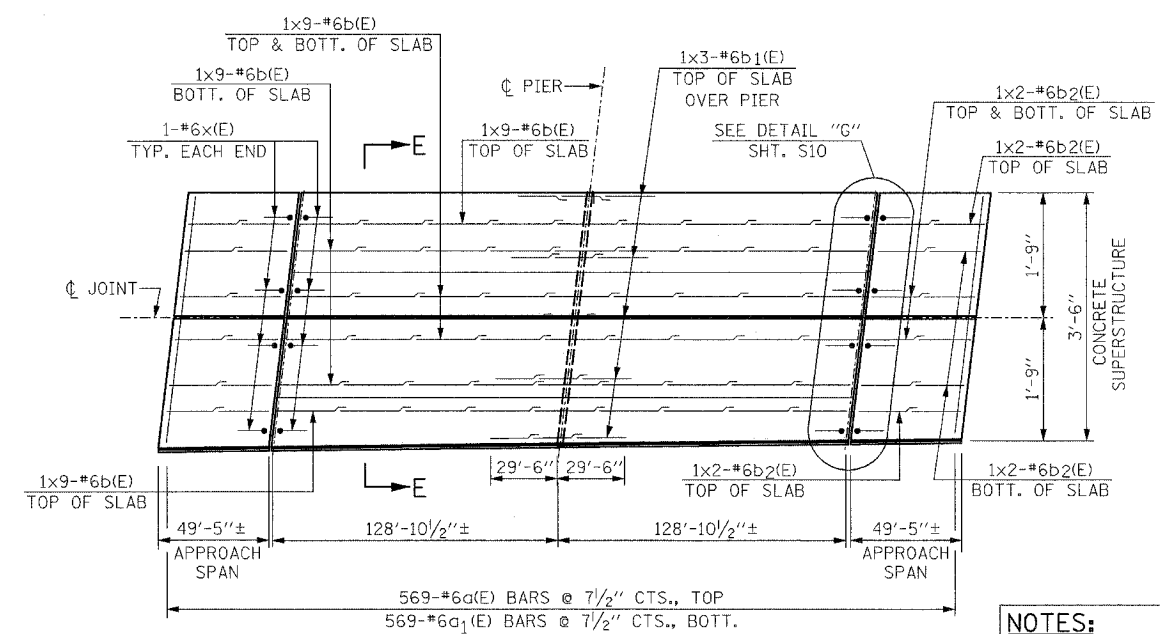


EXISTING LONGITUDINAL JOINT SECTION E-E

LEGEND:  
 CONCRETE REMOVAL

BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	1,138	#6	3'-2"	—
a <sub>1</sub> (E)	1,138	#6	4'-6"	⊂
b(E)	144	#6	30'-11"	—
b <sub>1</sub> (E)	30	#6	21'-5"	—
b <sub>2</sub> (E)	32	#6	25'-10"	—
x(E)	16	#6	4'-1"	⊂

DESCRIPTION	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YD.	85
REINFORCEMENT BARS, EPOXY COATED	LB.	22,100
CONCRETE SUPERSTRUCTURE	CU. YD.	104



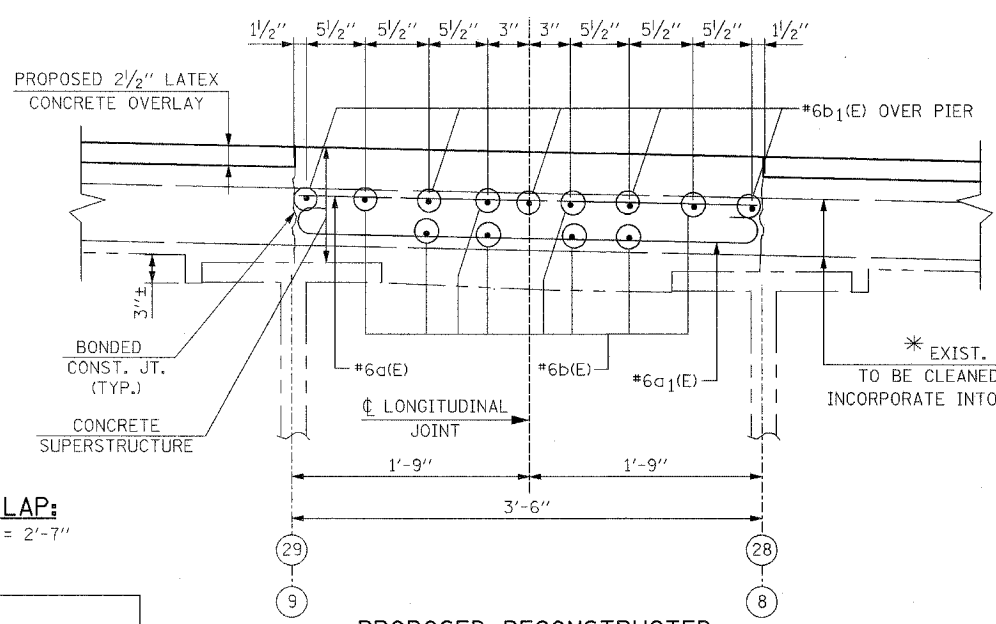
PROPOSED LONGITUDINAL JOINT DETAIL PLAN

(BETWEEN GIRDERS 29 & 28 - SHOWN)  
 (BETWEEN GIRDERS 9 & 8 - SIMILAR)

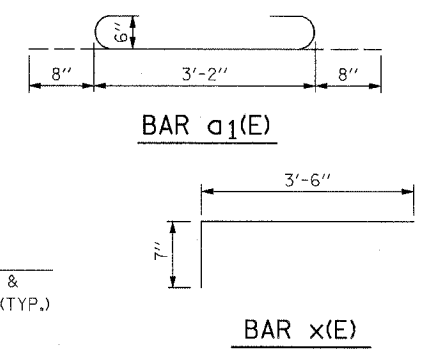
MIN. LAP:  
 #6 BARS = 2'-7"

NOTES:  
 FOR BAR SPACING, SEE SECTION E-E.  
 REINFORCEMENT SHOWN IN APPROACH SPAN IS TYPICAL FOR BOTH APPROACH SPANS.

NOTE:  
 BARS INDICATED THUS: 1x3-#6 ETC., INDICATES 1 LINE OF BARS WITH 3 LENGTHS PER LINE.



PROPOSED RECONSTRUCTED LONGITUDINAL JOINT SECTION E-E



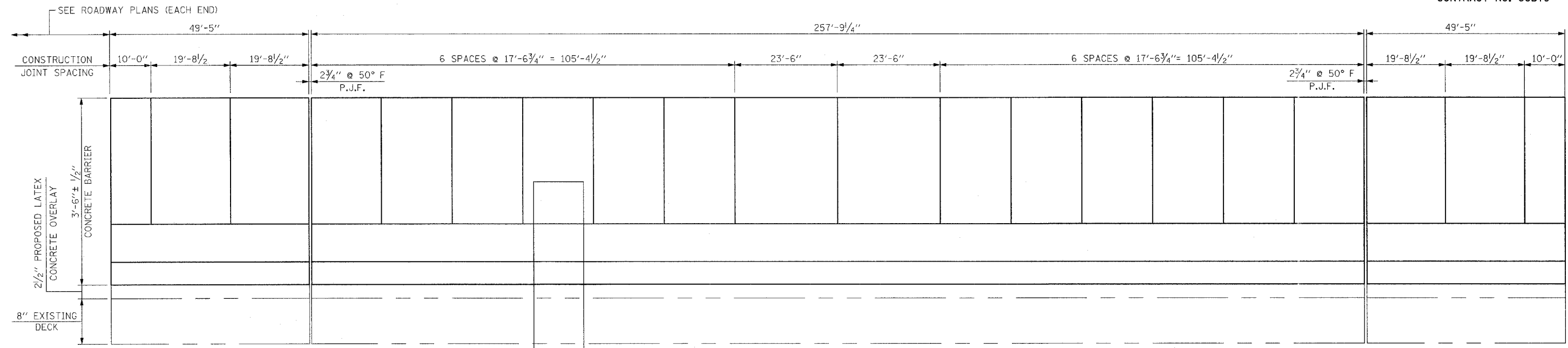
\* COST INCLUDED WITH "CONCRETE REMOVAL"

REVISIONS	
NAME	DATE

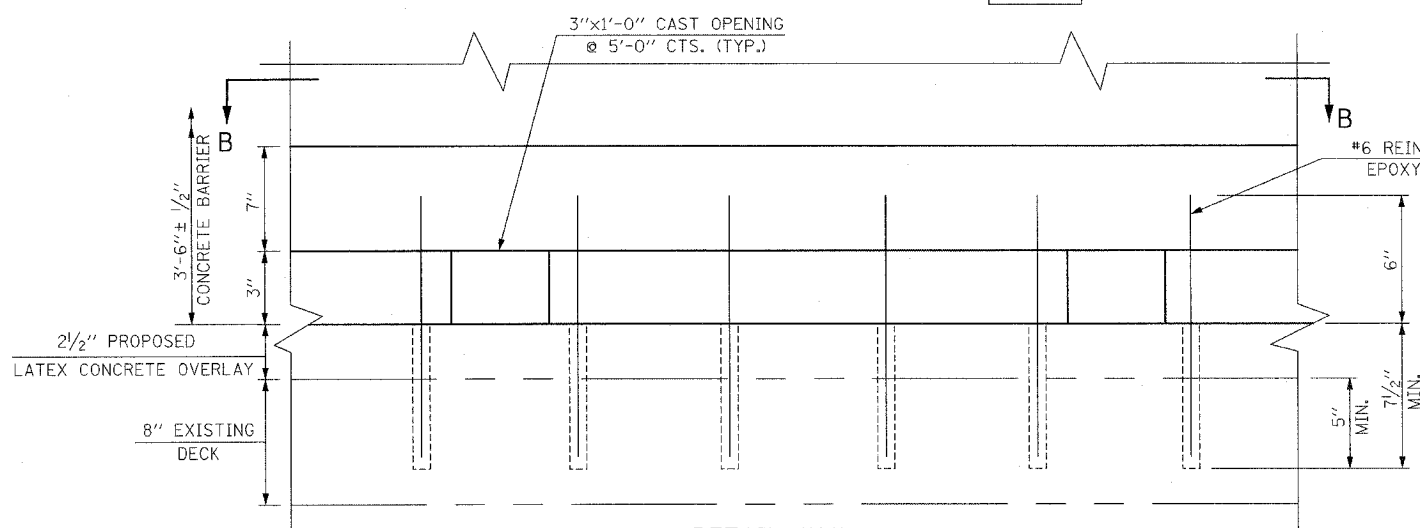
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LONGITUDINAL JOINT REMOVAL  
 F.A.I. RTE. 290 (I-290) OVER  
 N.W. TOLLWAY (I-90)  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 637+76.18  
 STRUCTURE NO. 016-0977

SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

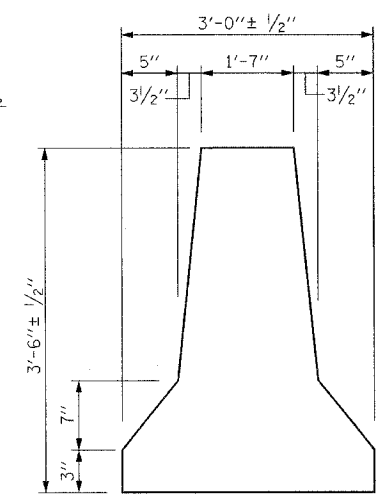




**CONCRETE BARRIER ELEVATION**  
(LOOKING WEST)  
(3 THUS)

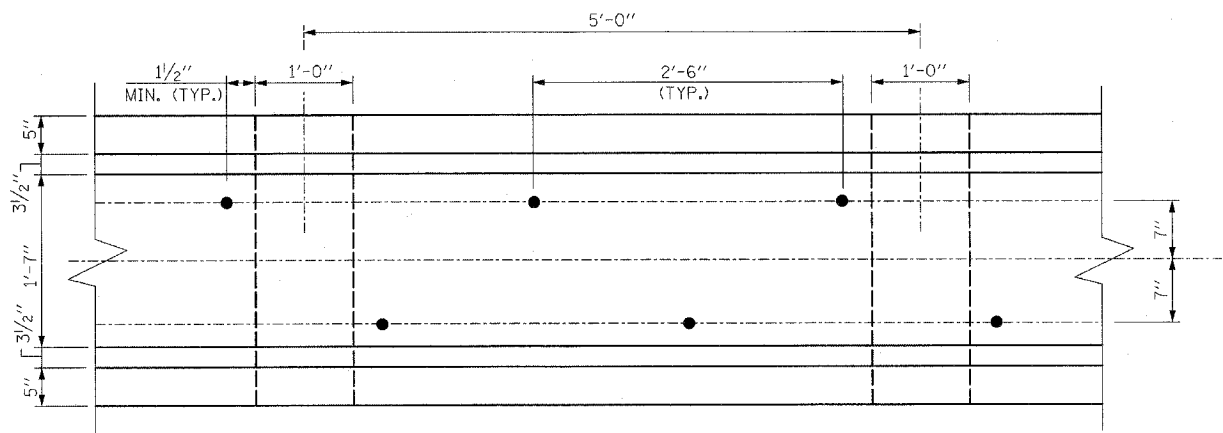


**DETAIL "A"**



**TYPICAL SECTION THRU CONCRETE BARRIER**

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
CONCRETE BARRIER, DOUBLE FACE, 42 IN.	FT.	1,070



**SECTION B-B**

**NOTE:**  
VERTICAL DIMENSIONS ARE EXAGGERATED FOR CLARITY

**NOTES:**  
CONCRETE BARRIERS SHALL CONFORM TO STANDARD 637006, EXCEPT AS NOTED.  
FOR BARRIER LOCATIONS, SEE SHEETS S3 & S4.  
REINFORCEMENT BARS, EPOXY COATED, CAST OPENINGS AND EPOXY GROUTING SHALL BE INCLUDED WITH "CONCRETE BARRIER, DOUBLE FACE, 42 IN"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CONCRETE BARRIER**  
F.A.I. RTE. 290 (I-290) OVER  
N.W. TOLLWAY (I-90)  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 637+76.18  
STRUCTURE NO. 016-0977

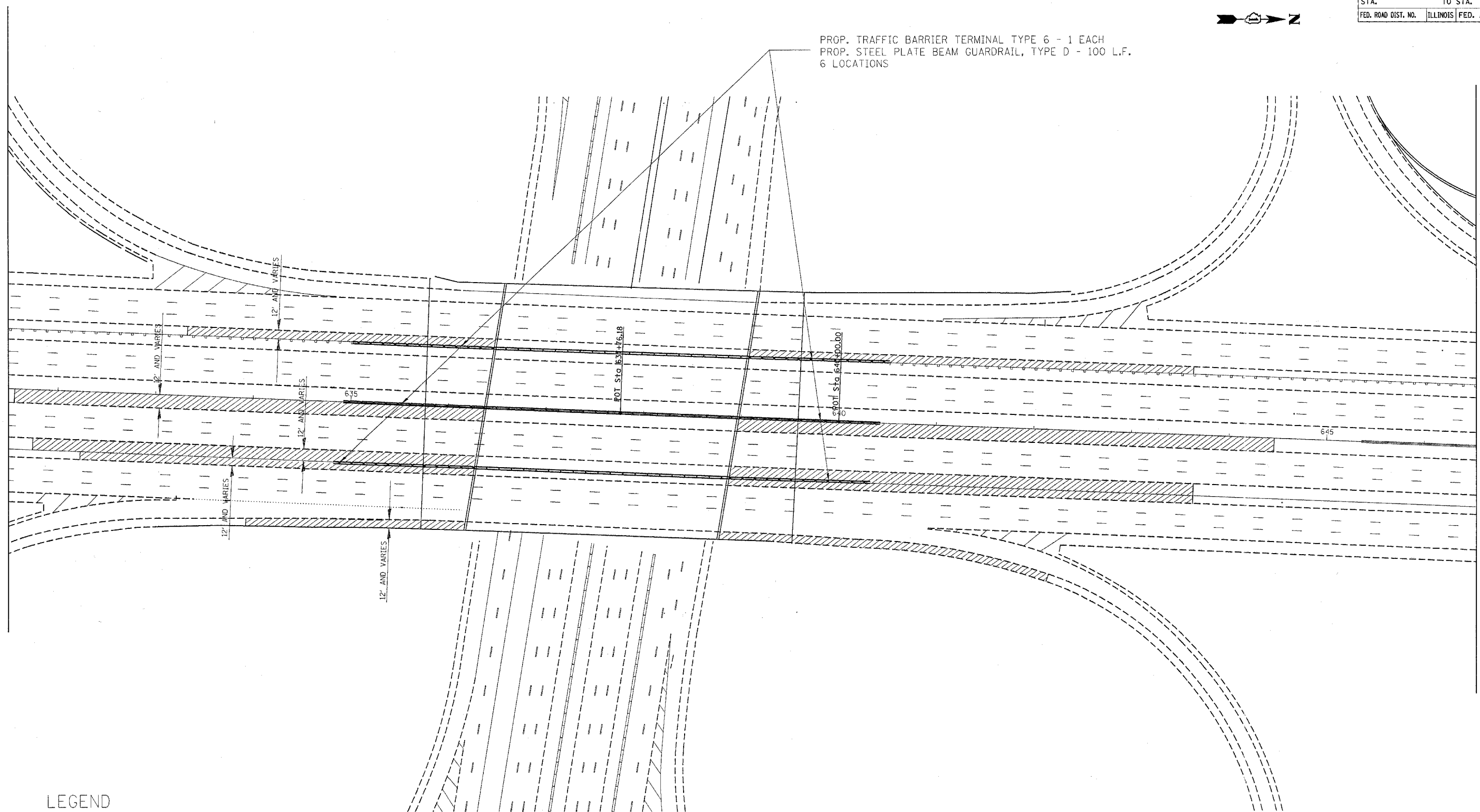
SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PROP. TRAFFIC BARRIER TERMINAL TYPE 6 - 1 EACH  
 PROP. STEEL PLATE BEAM GUARDRAIL, TYPE D - 100 L.F.  
 6 LOCATIONS



LEGEND

-  PROP. HMA SURFACE REMOVAL 1-1/2"  
 PROP. HMA SURFACE COURSE, MIX "D", N70  
 PROP. SHOULDER RUMBLE STRIP (TO BE INSTALLED AFTER STAGE CONSTRUCTION)
-  PROP. HMA SURFACE REMOVAL 2"  
 PROP. HMA SURFACE COURSE, MIX "F", N105

NOTE

HMA RESURFACING OF THE EXISTING ROADWAY SHOULDERS SHALL BE LIMITED TO AREAS WHERE TRAFFIC HAS TO BE WEAVED INTO THE SHOULDER FOR STAGING. SHOULDER RESURFACING SHALL BE COMPLETED PRIOR TO STAGE CONSTRUCTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ROADWAY PLANS  
 I-290/IL. 53 AT I-90 (TOLL)

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 5/15/2007  
 FILE NAME = c:\pavement\42806.dwg  
 USER NAME = r123456

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	50
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79

**EXISTING STRUCTURE: S.N. 016-0980**  
 BUILT IN 1970 AS A THREE (3) SPAN 56" WEB WELDED GIRDER BRIDGE CARRYING F.A.I. ROUTE 290 (I-290) OVER GOLF ROAD.

**SCOPE OF WORK:**

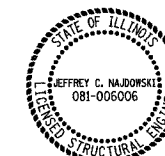
- REMOVE THE EXIST. 1 3/4" HOT-MIX ASPHALT SURFACE & HYDRO-SCARIFY 3/4" OF THE CONCRETE SURFACE.
- MARK AREAS OF FULL DEPTH REMOVAL.
- PERFORM DECK SLAB REPAIRS AND INSTALL FLOOR DRAINS.
- REMOVE PARAPET HANDRAIL, PERFORM PARAPET REPAIRS AND CONSTRUCT CONCRETE PARAPET & WINGWALL EXTENSIONS.
- REMOVE GUARDRAIL AND REPLACE WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.
- RESEAL OR RECONSTRUCT TRANSVERSE EXPANSION JOINTS AND LONGITUDINAL JOINTS.
- PLACE A 2 1/2" LATEX CONCRETE OVERLAY WITH FORMED JOINT.
- PERFORM SUBSTRUCTURE AND SLOPEWALL REPAIRS.

**NOTE "A":**

GUARDRAIL IS TO BE REMOVED AND REPLACED WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.

**NOTES:**

FOR SECTIONS C-C, D-D & E-E SEE SHT. S22.  
 FOR SECTION F-F SEE SHT. S23.



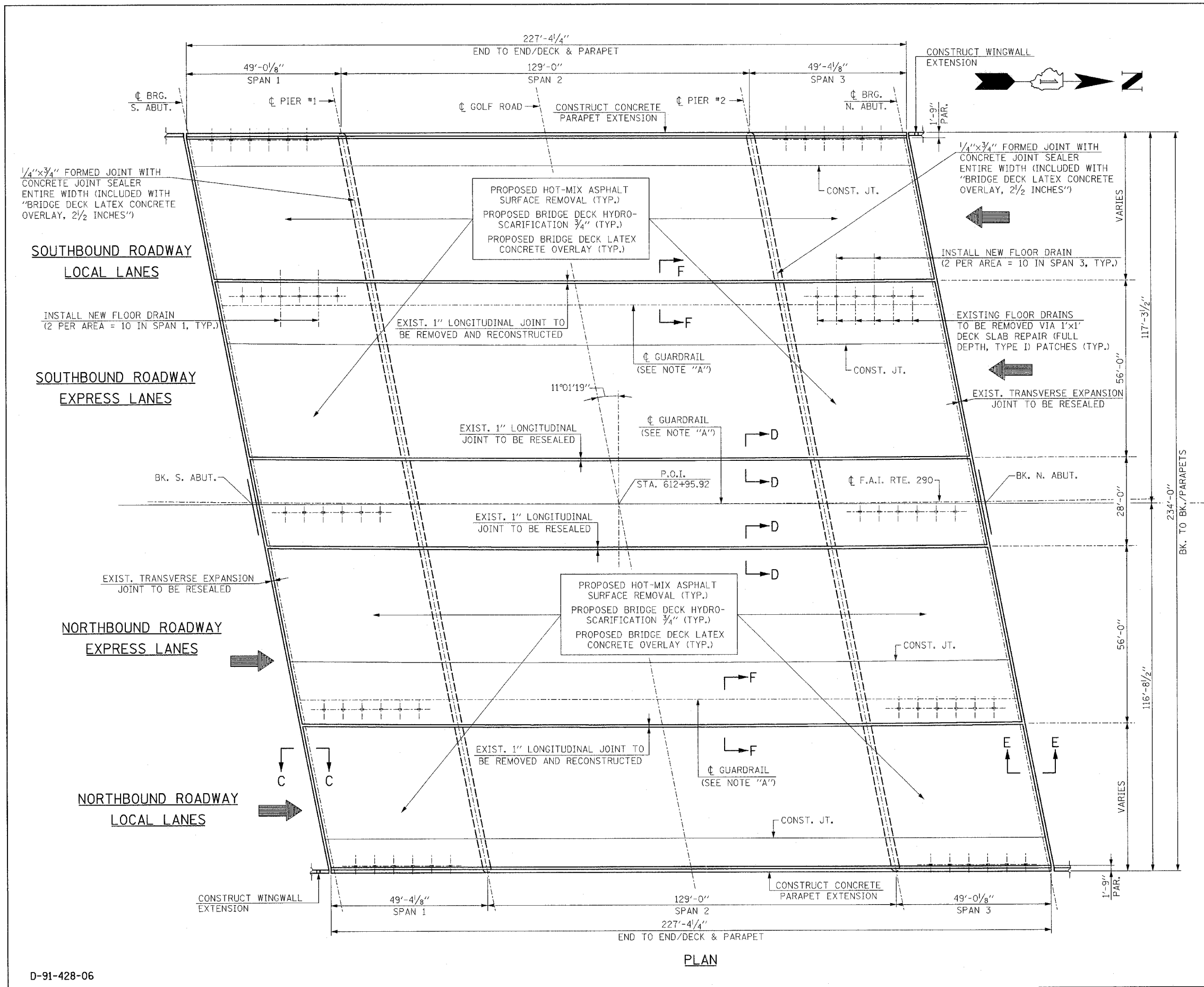
*Jeff Najdowski*  
 JEFFREY C. NAJDOWSKI  
 LICENSED STRUCTURAL ENGINEER  
 STATE OF ILLINOIS LIC. No. 081-006006  
 EXPIRES: 11-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
 F.A.I. RTE. 290 (I-290) OVER  
 GOLF ROAD  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 612+95.92  
 STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE



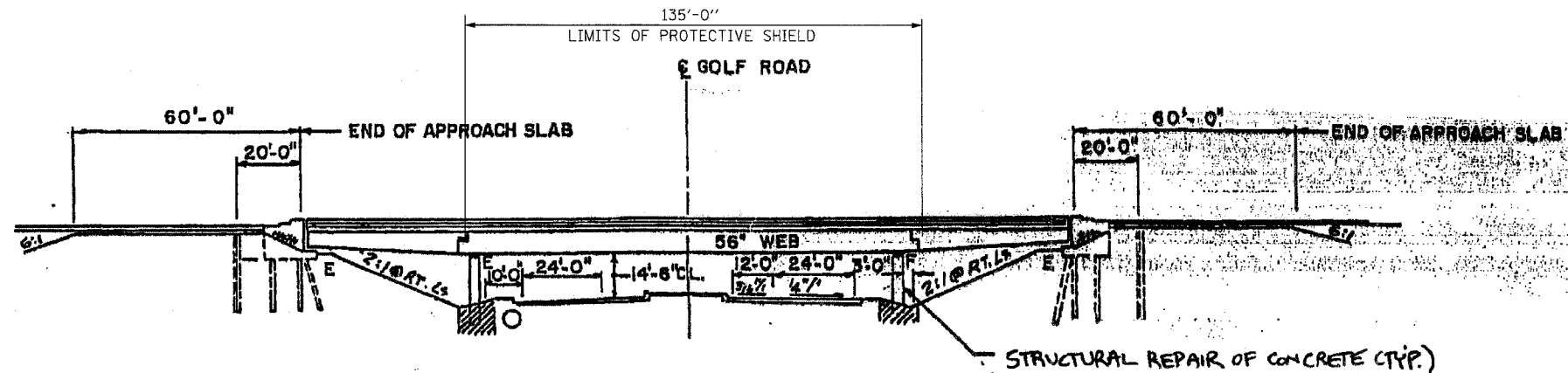
PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

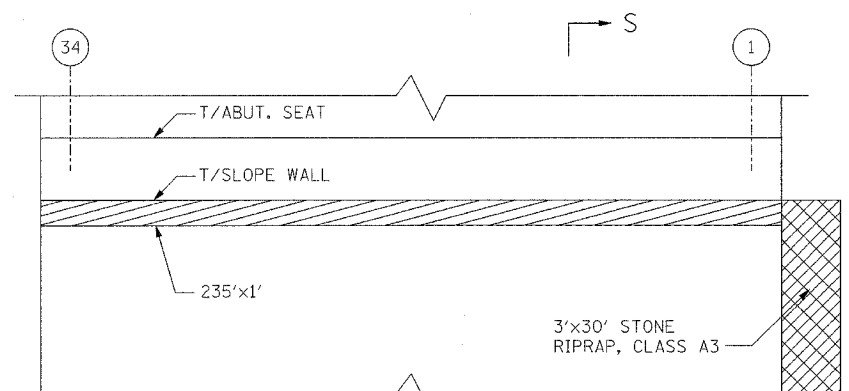
CONTRACT NO. 60879

**GENERAL NOTES:**

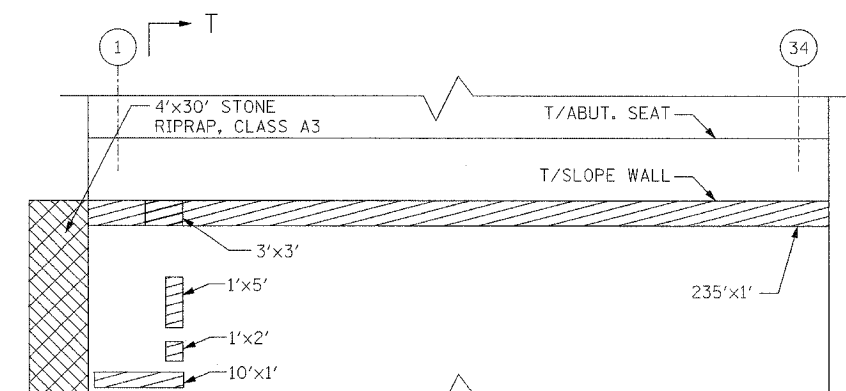
1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
2. THE CONTRACTOR MUST USE EXTREME CAUTION DURING CONCRETE REMOVAL AND MUST NOT NICK, CUT OR DAMAGE IN ANY WAY, ANY OF THE STEEL BEAMS. THE EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 36 UNLESS OTHERWISE NOTED.
4. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
5. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706, GR. 60 (IL. MODIFIED). SEE SPECIAL PROVISIONS.
6. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.



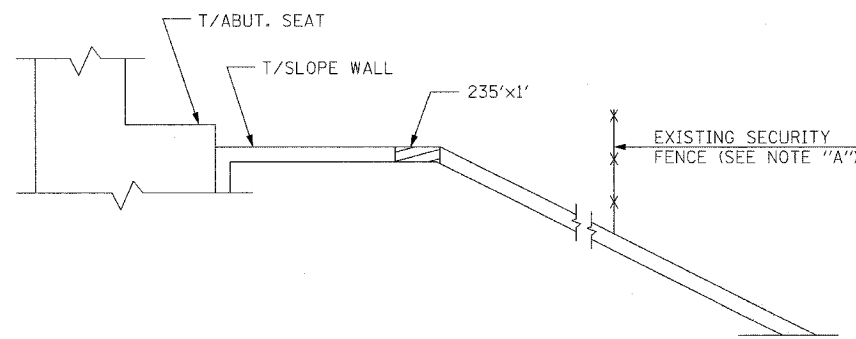
**ELEVATION**



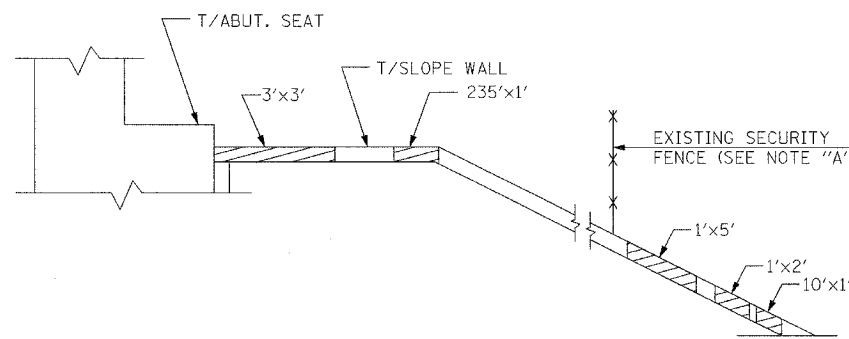
**SOUTH ABUTMENT SLOPE WALL ELEVATION**



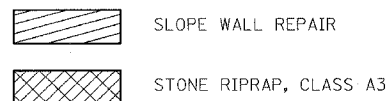
**NORTH ABUTMENT SLOPE WALL ELEVATION**



**SECTION S-S**



**SECTION T-T**



**NOTE "A":**

PRIOR TO BEGINNING WORK, CONTRACTOR SHALL DETERMINE WHETHER EXISTING SECURITY FENCE CONFLICTS WITH SLOPE WALL REPAIR. CONTRACTOR SHALL REMOVE AND REPLACE PORTIONS OF THE FENCE IF NECESSARY. COST INCLUDED WITH "SLOPE WALL REPAIR"

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ. YD.	5,609
PROTECTIVE SHIELD	SQ. YD.	3,510
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5')	SQ. FT.	290
EPOXY CRACK INJECTION	FT.	137
POLYMER CONCRETE	CU. FT.	45
SILICONE JOINT SEALER, 1"	FT.	456
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ. YD.	5,609
SILICONE JOINT SEALER, 2 1/2"	FT.	239
SILICONE JOINT SEALER, 1 3/4"	FT.	239
BRIDGE DECK HYDRO-SCARIFICATION 3/4"	SQ. YD.	5,609
FLOOR DRAINS	EACH	20
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	10
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	91
SLOPE WALL REPAIR	SQ. YD.	56
CONCRETE REMOVAL	CU. YD.	63
REINFORCEMENT BARS, EPOXY COATED	LB.	19,530
CONCRETE SUPERSTRUCTURE	CU. YD.	90
GUARDRAIL REMOVAL	FT.	683
TEMPORARY CONCRETE BARRIER	FT.	910
RELOCATE TEMPORARY CONCRETE BARRIER	FT.	1,365
CONCRETE BARRIER, DOUBLE FACE, 42 IN.	FT.	683
STONE RIPRAP, CLASS A3	SQ. YD.	24
MODIFY EXISTING CONNECTION TO SIGN STRUCTURE	EACH	4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ELEVATION AND GENERAL NOTES**  
 F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 612+95.92  
 STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

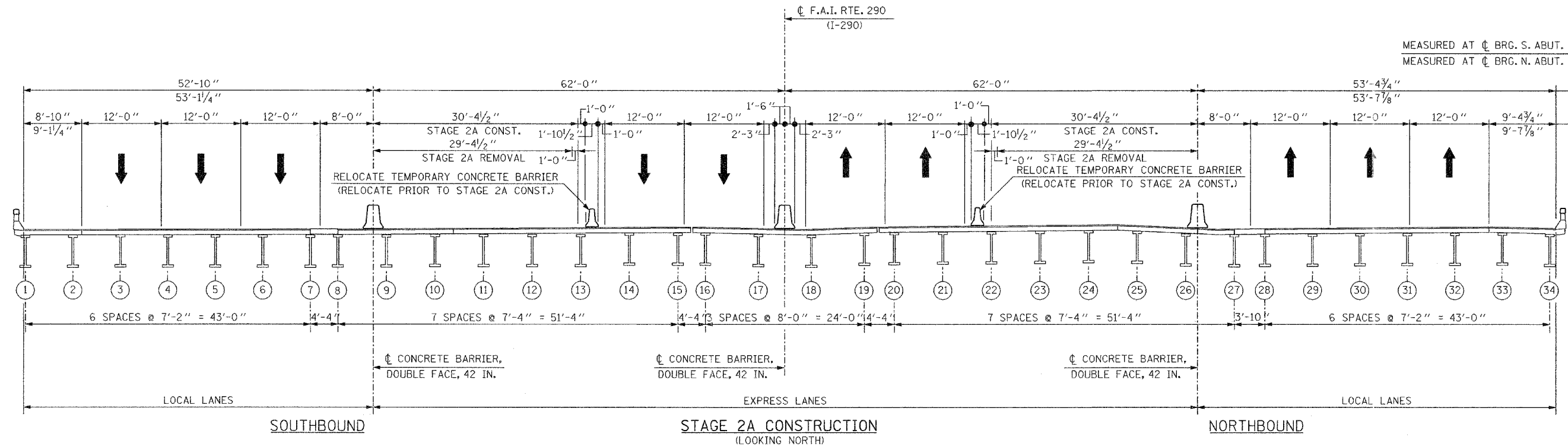
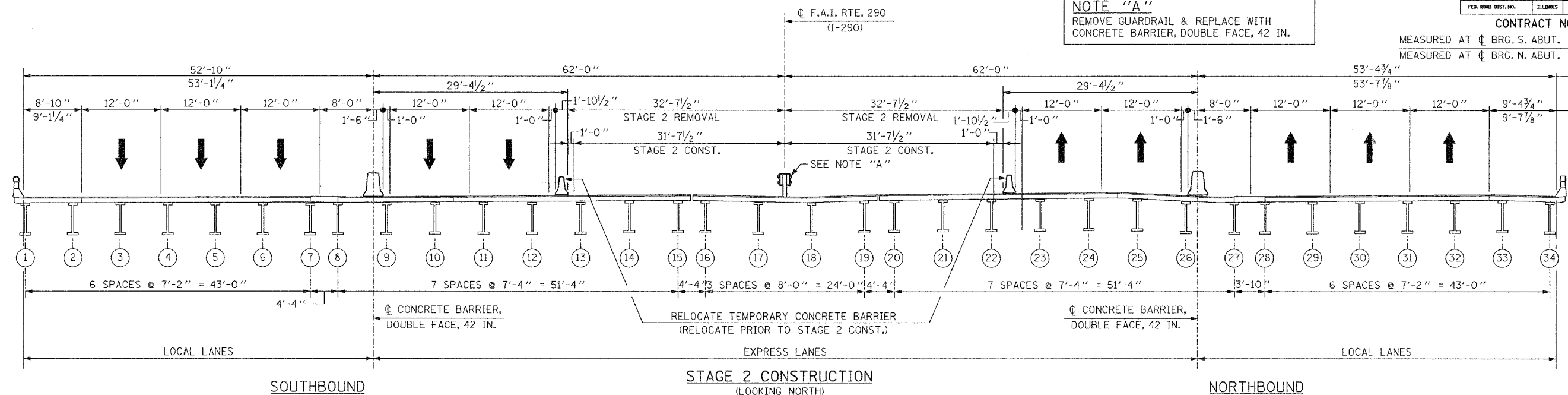


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	53
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79

MEASURED AT  $\bar{C}$  BRG. S. ABUT.  
MEASURED AT  $\bar{C}$  BRG. N. ABUT.

**NOTE "A"**  
REMOVE GUARDRAIL & REPLACE WITH CONCRETE BARRIER, DOUBLE FACE, 42 IN.



REVISIONS	
NAME	DATE

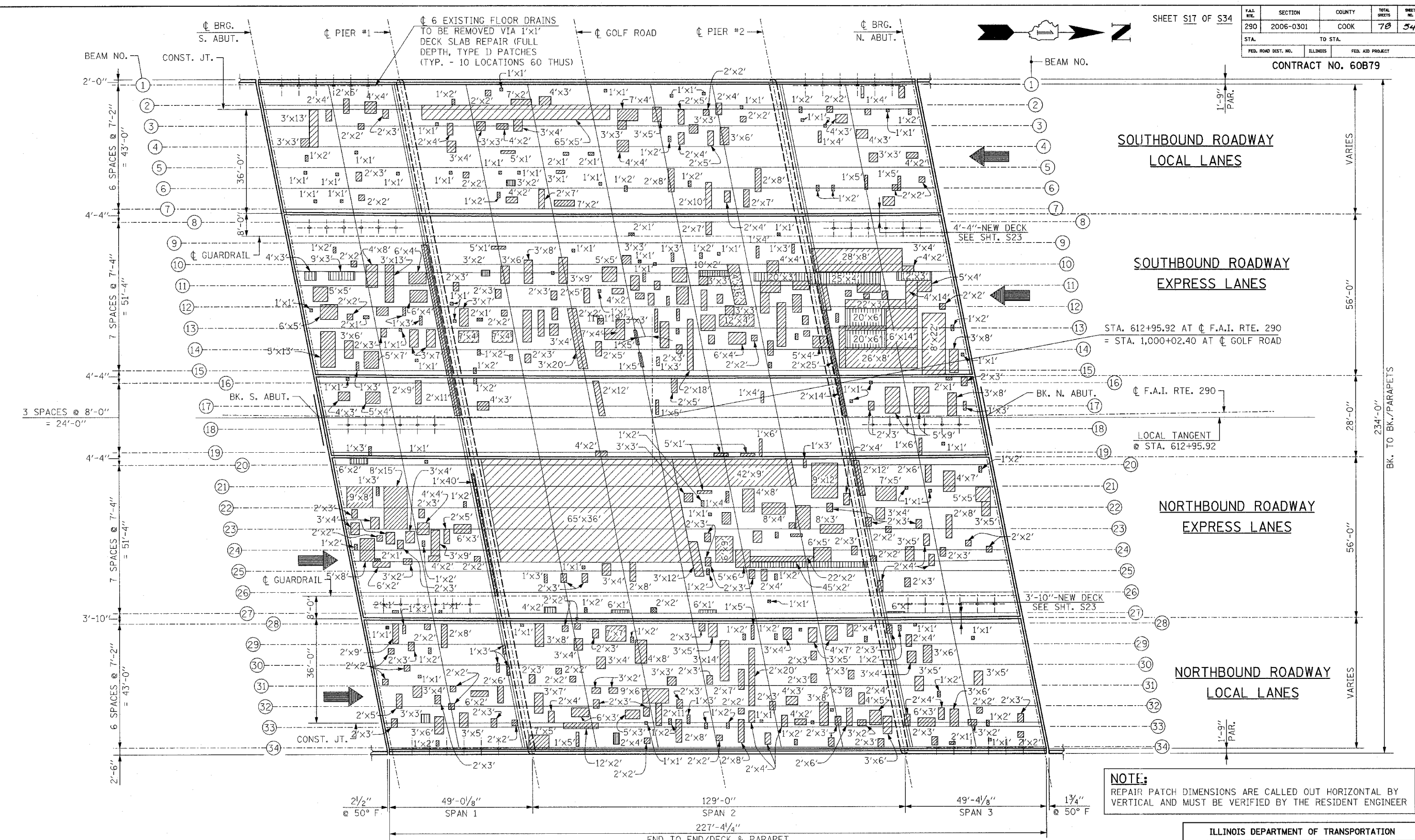
ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXIST. DECK CROSS SECTION & STAGING  
F.A.I. RTE. 290 (I-290) OVER  
GOLF ROAD  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION: 612+95.92  
STRUCTURE NO. 016-0980

SCALE: DRAWN BY: D.L./F.M.  
DATE: MAY 10, 2007 CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	54
STA.	TO STA.		ILLINOIS	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79



**NOTE:**  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL AND MUST BE VERIFIED BY THE RESIDENT ENGINEER

BILL OF MATERIAL			LEGEND:	
DESCRIPTION	UNIT	QUANTITY		
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO. YD.	10		DECK SLAB REPAIR (PARTIAL)
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO. YD.	91		DECK SLAB REPAIR (FULL DEPTH, TYPE I)
				DECK SLAB REPAIR (FULL DEPTH, TYPE II)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

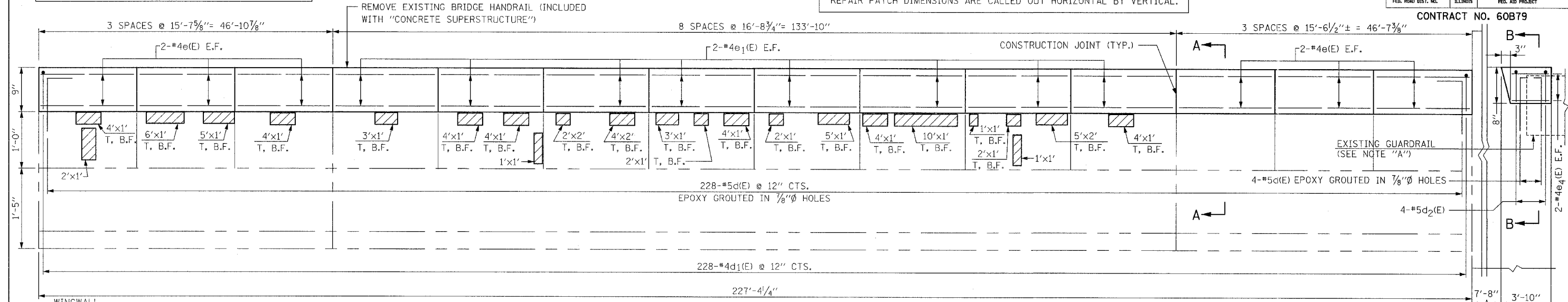
**BRIDGE DECK PATCHING**  
F.A.I. RTE. 290 (I-290) OVER  
GOLF ROAD  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 612+95.92  
STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS

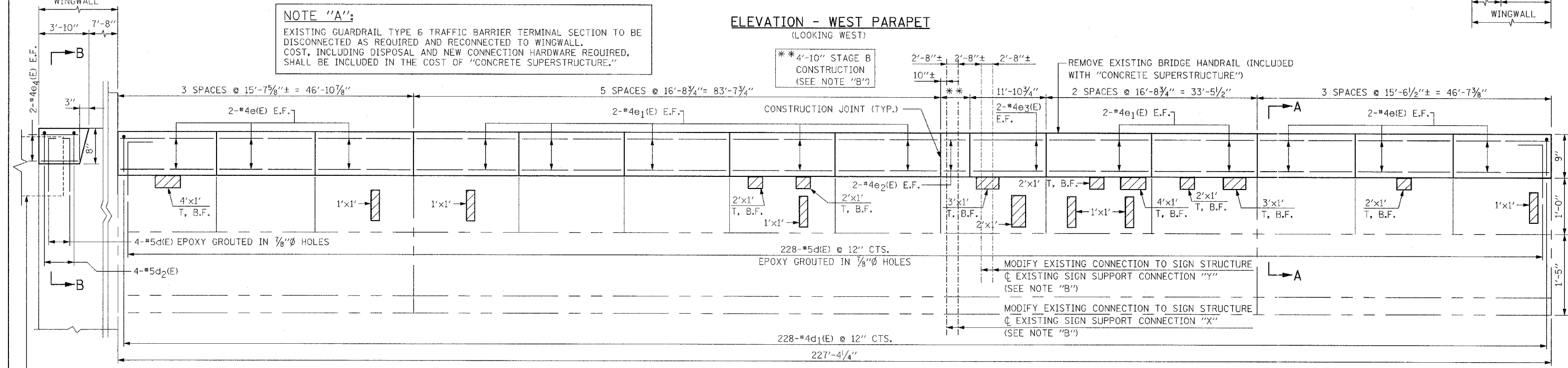
**NOTE:**  
 VERTICAL DIMENSIONS ARE EXAGGERATED FOR CLARITY

**NOTE:**  
 REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.



**NOTE "A":**  
 EXISTING GUARDRAIL TYPE 6 TRAFFIC BARRIER TERMINAL SECTION TO BE DISCONNECTED AS REQUIRED AND RECONNECTED TO WINGWALL. COST, INCLUDING DISPOSAL AND NEW CONNECTION HARDWARE REQUIRED, SHALL BE INCLUDED IN THE COST OF "CONCRETE SUPERSTRUCTURE."

**ELEVATION - WEST PARAPET**  
 (LOOKING WEST)



**NOTE "B":** STAGE A: LEAVE IN PLACE SIGN STRUCTURE CONNECTIONS "X" AND REMOVE SIGN STRUCTURE CONNECTIONS "Y". CONSTRUCT ALL PARAPET EXTENSIONS EXCEPT THOSE LABELLED STAGE B CONSTRUCTION. WHEN STAGE A CONCRETE f'c REACHES 3500PSI, REINSTALL EXISTING STEEL ANGLES IN SAME LOCATION WITH NEW ANCHOR BOLTS MATCHING EXISTING.  
 STAGE B: REMOVE SIGN STRUCTURE CONNECTIONS "X". CONSTRUCT ALL PARAPET EXTENSIONS LABELLED STAGE B CONSTRUCTION. WHEN STAGE B CONCRETE f'c REACHES 3500PSI, REINSTALL EXISTING STEEL ANGLES IN SAME LOCATION WITH NEW ANCHOR BOLTS MATCHING EXISTING. THERE ARE A TOTAL OF 4 NEW ANCHOR BOLTS. COST INCL. WITH "MODIFY EXISTING CONNECTION TO SIGN STRUCTURE."

**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")
- T, F.F. = TOP & FRONT FACE
- T, B.F. = TOP & BACK FACE
- T = TOP
- E.F. = EACH FACE
- I.F. = INSIDE FACE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PARAPET REPAIRS**  
 F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 612+95.92  
 STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

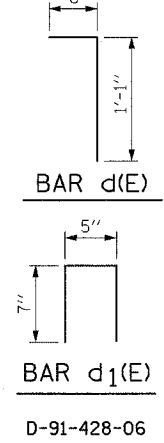
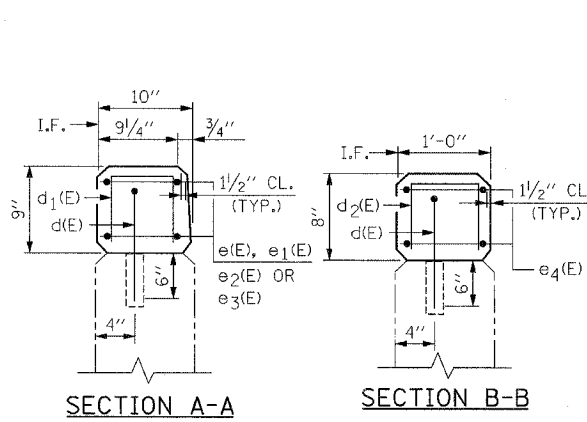
REINFORCEMENT BAR SCHEDULE				
BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	464	#5	1'-7"	
d1(E)	456	#4	1'-7"	
d2(E)	8	#4	1'-7"	
e(E)	48	#4	15'-2"	
e1(E)	60	#4	16'-4"	
e2(E)	4	#4	4'-6"	
e3(E)	4	#4	11'-6"	
e4(E)	8	#4	3'-3"	

**NOTE:**  
 PERFORM T/PARAPET REPAIRS PRIOR TO CONSTRUCTING PARAPET EXTENSIONS.

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	150
CONCRETE SUPERSTRUCTURE	CU. YD.	12
REINFORCEMENT BARS, EPOXY COATED	LB.	2,460
MODIFY EXISTING CONNECTION TO SIGN STRUCTURE	EACH	4

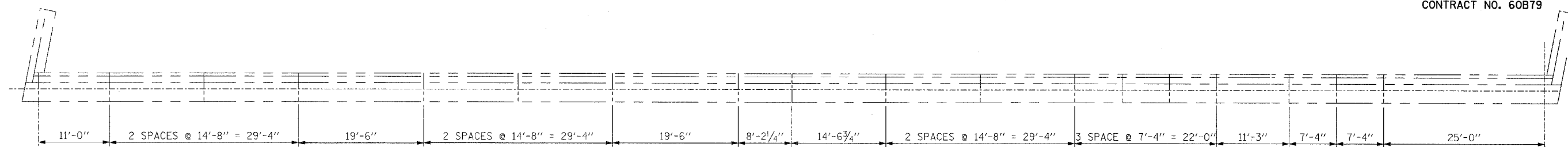
**ELEVATION - EAST PARAPET**  
 (LOOKING WEST)



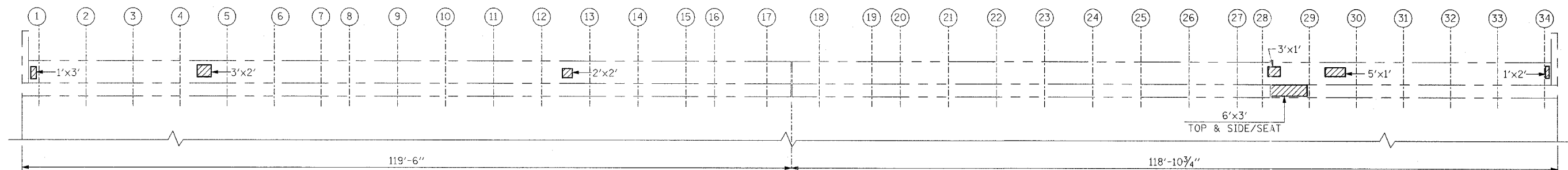


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	70	56
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

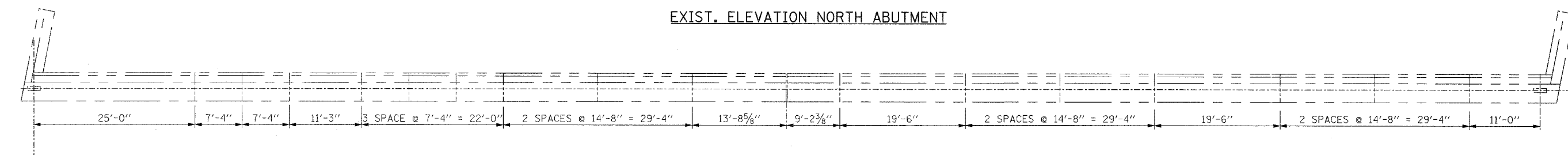
CONTRACT NO. 60B79



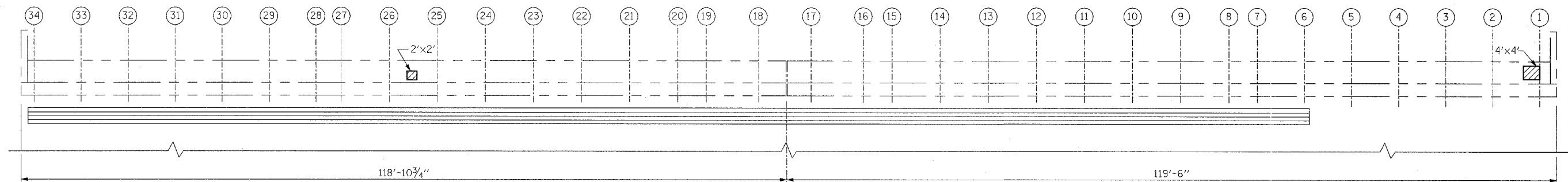
EXIST. PLAN NORTH ABUTMENT



EXIST. ELEVATION NORTH ABUTMENT



EXIST. PLAN SOUTH ABUTMENT



EXIST. ELEVATION SOUTH ABUTMENT

**NOTE:**  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	70

**LEGEND:**  
 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")

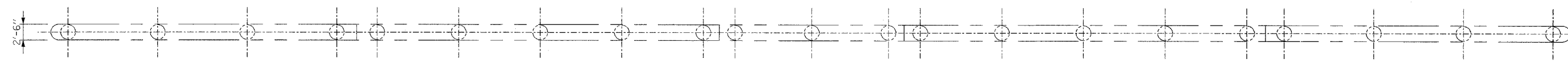
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 NORTH & SOUTH ABUTMENT REPAIRS  
 F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 612+95.92  
 STRUCTURE NO. 016-0980

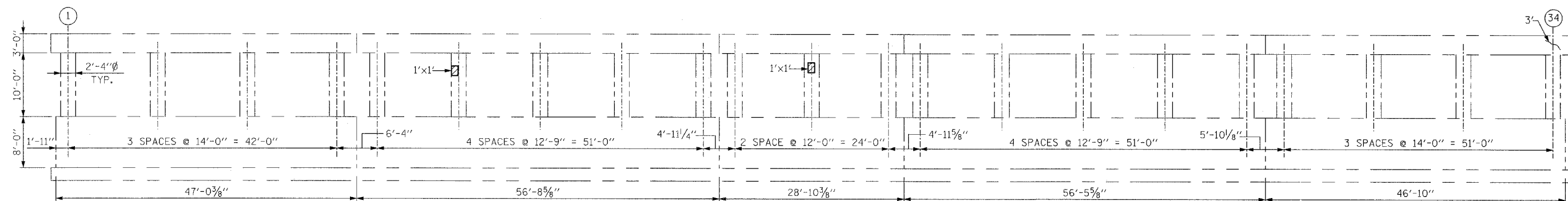
SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	70	57
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

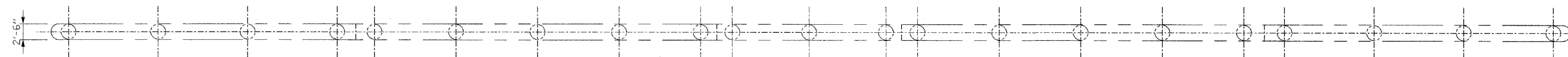
CONTRACT NO. 60B79



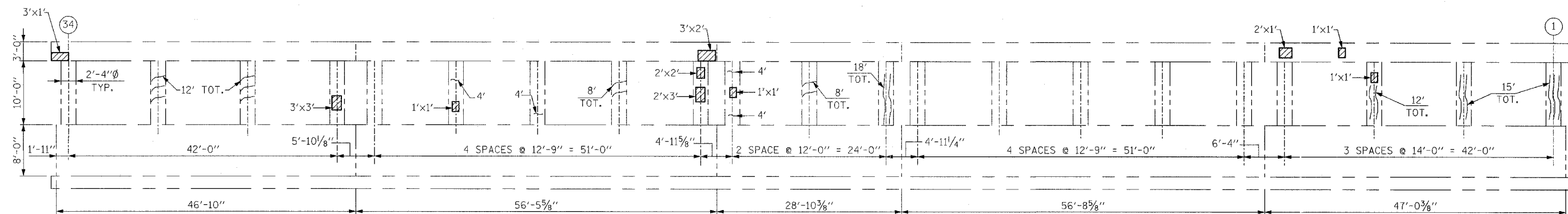
EXISTING TOP PLAN



EXISTING ELEVATION  
(LOOKING NORTH)



EXISTING TOP PLAN



EXISTING ELEVATION  
(LOOKING SOUTH)

**NOTE:**  
CRACK WIDTHS ARE 1/8" ± 1/16" UNLESS OTHERWISE NOTED.  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")
- EPOXY CRACK INJECTION
- TOT. TOTAL LENGTHS OF CRACKS PER COLUMN LOOKING SOUTH

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	41
EPOXY CRACK INJECTION	FT.	137

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

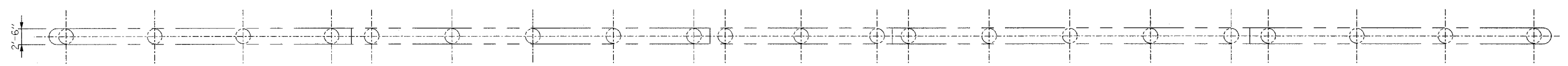
**PIER 1 REPAIRS**  
F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 612+95.92  
STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

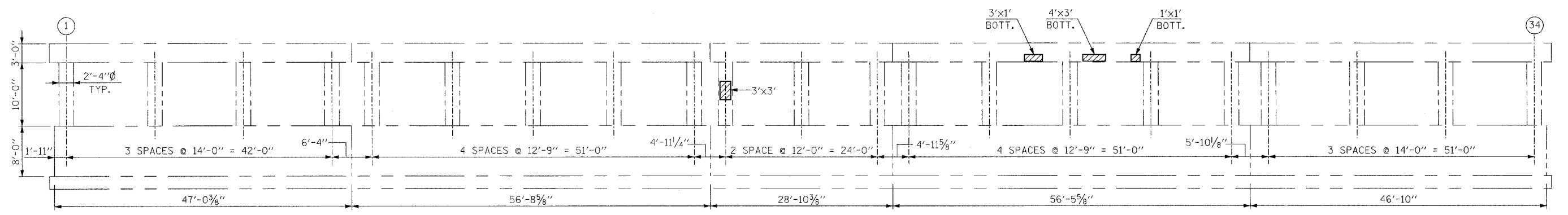
**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	58
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

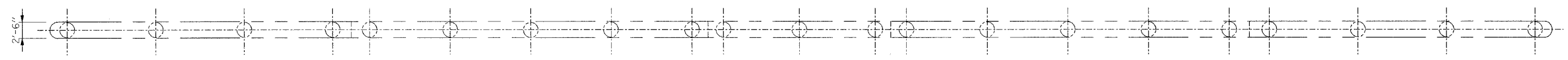
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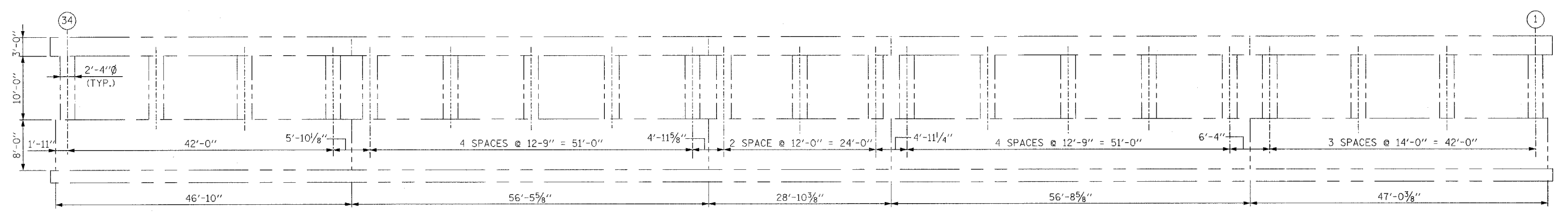
EXISTING TOP PLAN



EXISTING ELEVATION  
(LOOKING NORTH)



EXISTING TOP PLAN



EXISTING ELEVATION  
(THERE WERE NO SPALLS LOOKING SOUTH ALONG PIER 2)  
(LOOKING SOUTH)

LEGEND:

STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5')

**NOTE:**  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5')	SQ. FT.	29

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

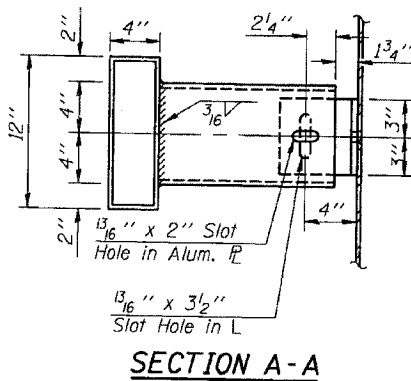
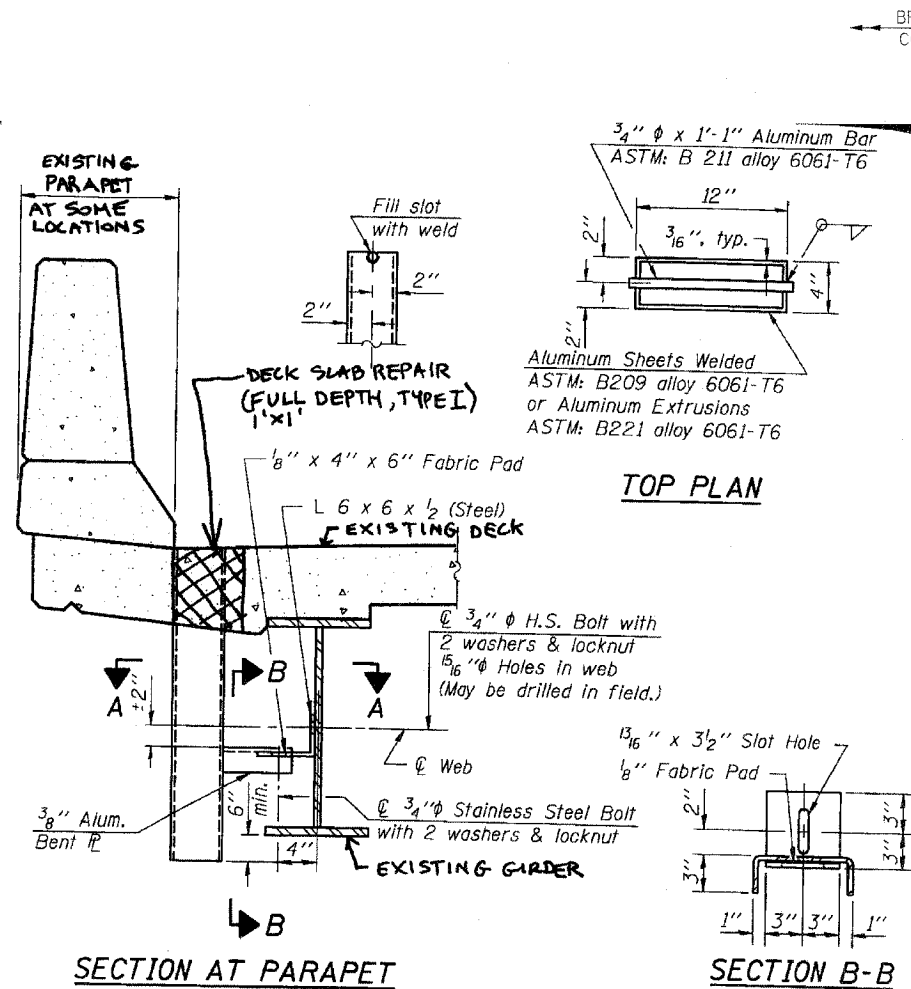
PIER 2 REPAIRS  
F.A.I. RTE. 290 (I-290) OVER  
GOLF ROAD  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 612+95.92  
STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007

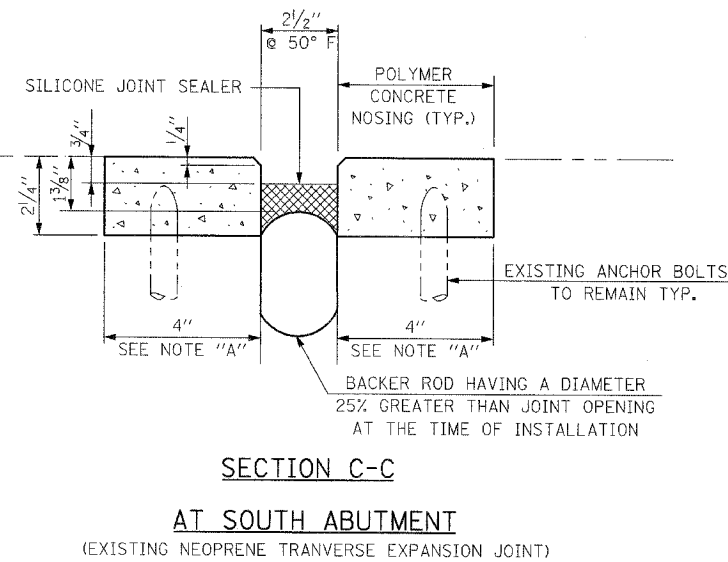
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	59
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B79				



Note:  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting.



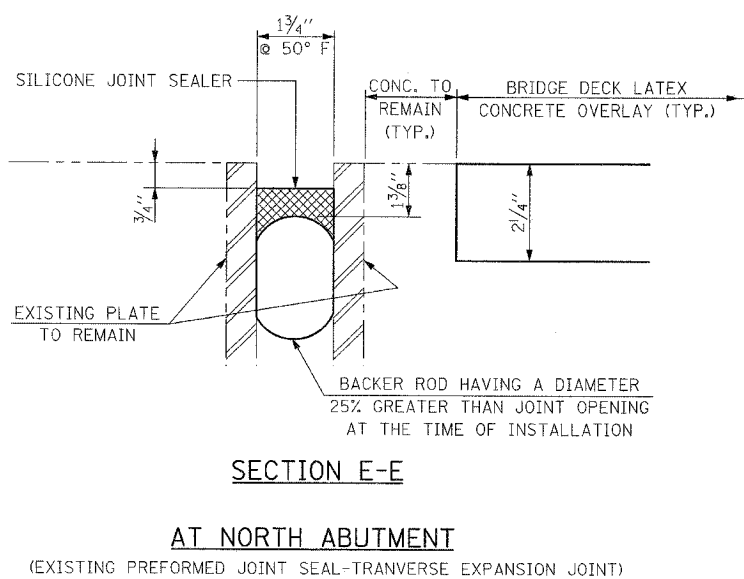
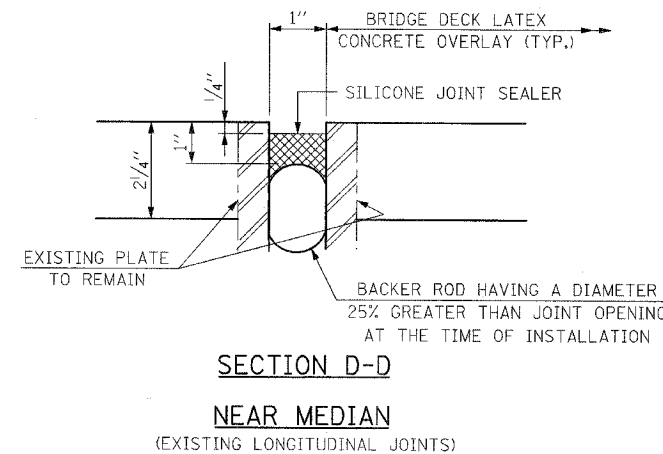
**NOTES:**

- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
- COST FOR REMOVAL OF EXISTING JOINT IS INCLUDED IN THE COST OF SILICONE JOINT SEALER.

**NOTE "A":**

PLACE ADDITIONAL POLYMER CONCRETE IN AREAS WHERE ABUTMENT BACKWALL HAS DETERIORATED, RESULTING IN EXISTING ASPHALT ENCROACHMENT.

LOCATION	JOINT OPENING	LENGTH OF SILICONE JOINT SEALER
NORTH ABUTMENT	2 1/2"	239'-0"
SOUTH ABUTMENT	1 3/4"	239'-0"
NEAR MEDIAN	1"	456'-0"



BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
POLYMER CONCRETE	CU. FT.	45
SILICONE JOINT SEALER, 1"	FT.	456
SILICONE JOINT SEALER, 2 1/2"	FT.	239
SILICONE JOINT SEALER, 1 3/4"	FT.	239
FLOOR DRAINS	EACH	20

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT RESEALING AND DRAIN EXTENSION DETAILS

F.A.I. RTE. 290 (I-290) OVER GOLF ROAD

F.A.I. RTE. 290 SECTION: 2006-0301

COOK COUNTY STATION 612+95.92

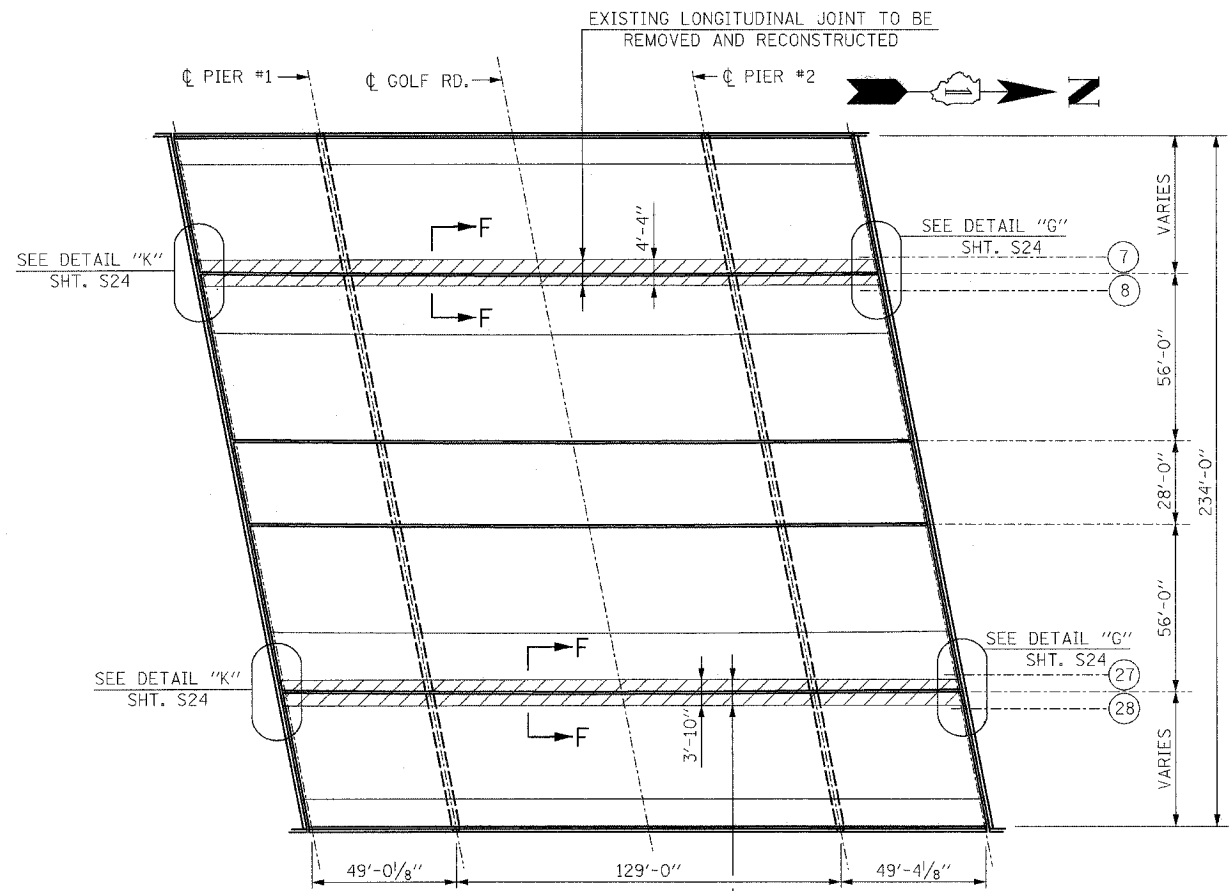
STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007

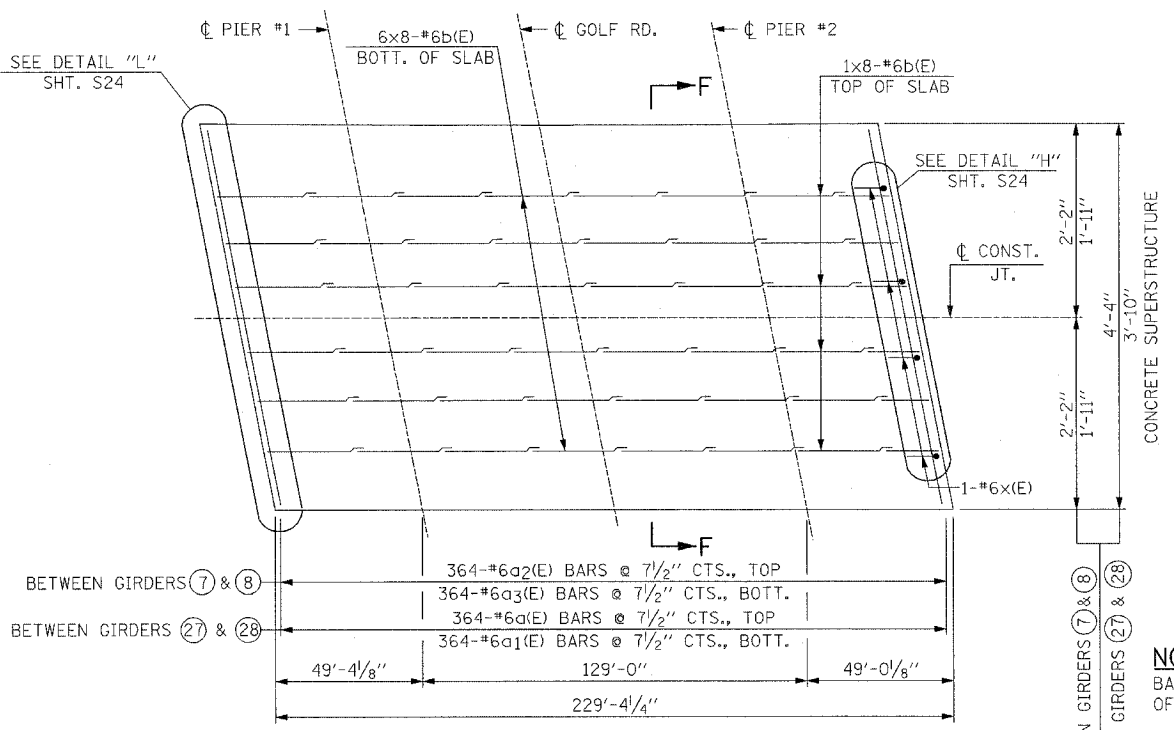
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS

F.A.I. RTE. 290	SECTION 2006-0301	COUNTY COOK	TOTAL SHEETS 78	SHEET NO. 60
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60B79				

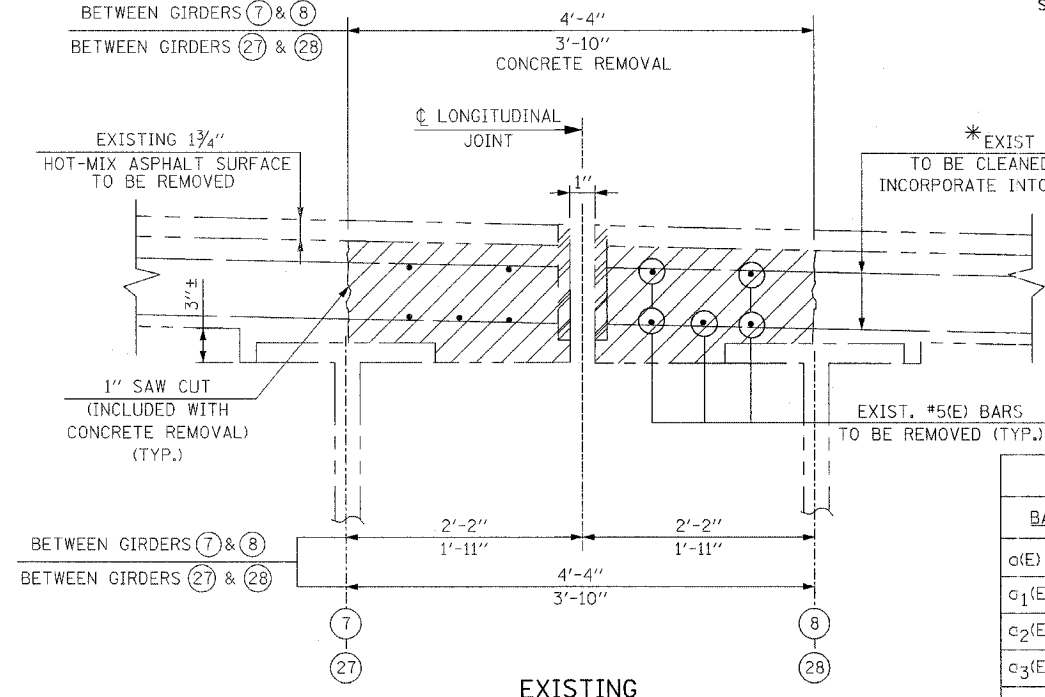


**DECK PLAN**



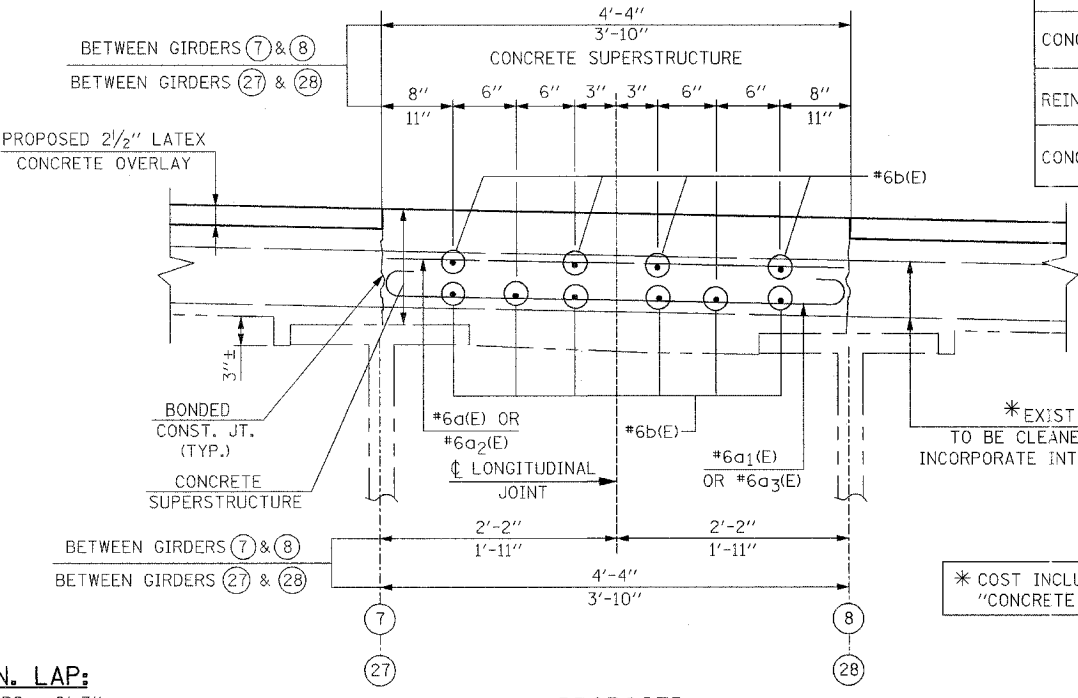
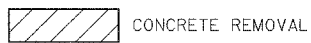
**PROPOSED LONGITUDINAL JOINT DETAIL PLAN**

(BETWEEN GIRDERS 7 & 8 - SHOWN)  
(BETWEEN GIRDERS 27 & 28 - SIMILAR)



**EXISTING LONGITUDINAL JOINT SECTION F-F**

**LEGEND:**



**PROPOSED RECONSTRUCTED LONGITUDINAL JOINT SECTION F-F**

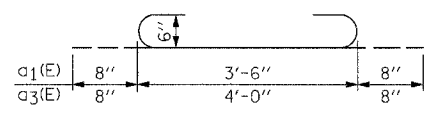
**MIN. LAP:**  
#6 BARS = 2'-7"

**NOTE:**  
BARS INDICATED THUS: 6x8-#6 ETC., INDICATES 6 LINES OF BARS WITH 8 LENGTHS PER LINE.

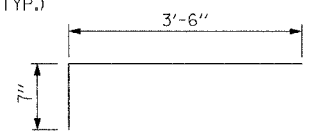
**NOTE:**  
FOR BAR SPACING, SEE SECTION F-F

BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	364	#6	3'-6"	—
a <sub>1</sub> (E)	364	#6	4'-10"	U
a <sub>2</sub> (E)	364	#6	4'-0"	—
a <sub>3</sub> (E)	364	#6	5'-4"	U
b(E)	160	#6	30'-9"	—
x(E)	4	#6	4'-1"	—

DESCRIPTION	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YD.	63
REINFORCEMENT BARS, EPOXY COATED	LB.	17,070
CONCRETE SUPERSTRUCTURE	CU. YD.	78



**BARS a<sub>1</sub>(E) & a<sub>3</sub>(E)**



**BAR x(E)**

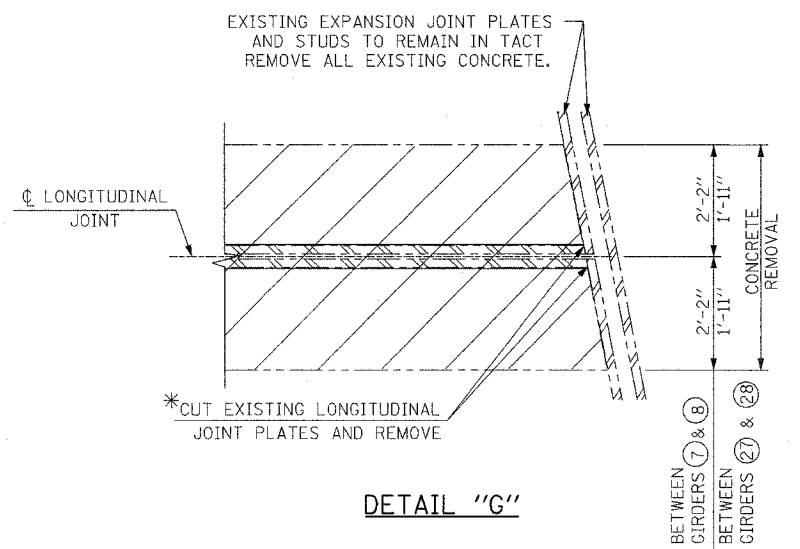
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LONGITUDINAL JOINT REMOVAL  
F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 612+95.92  
STRUCTURE NO. 016-0980

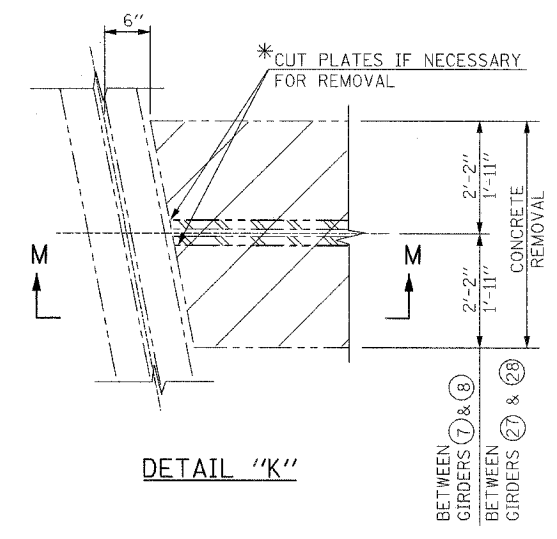
SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
CHICAGO ILLINOIS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	41
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

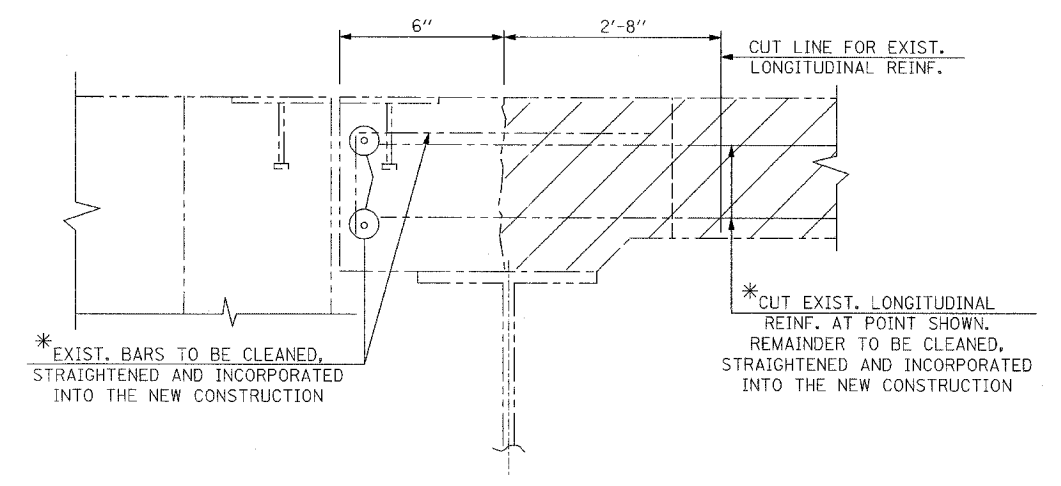
CONTRACT NO. 60B79



DETAIL "G"

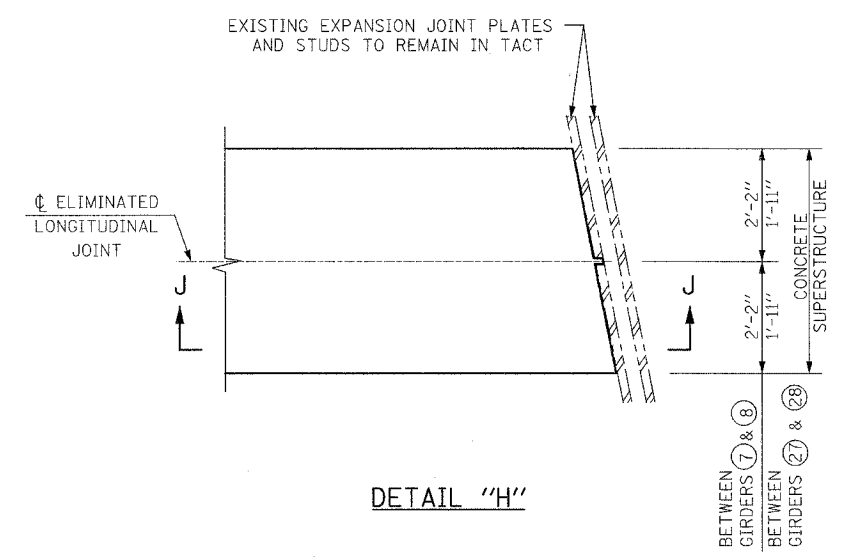


DETAIL "K"

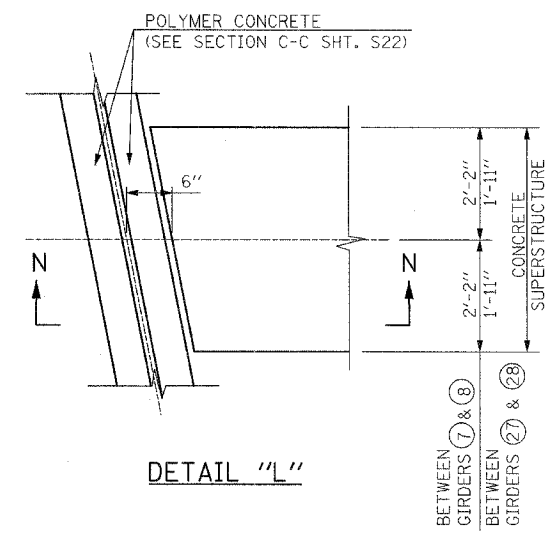


SECTION M-M

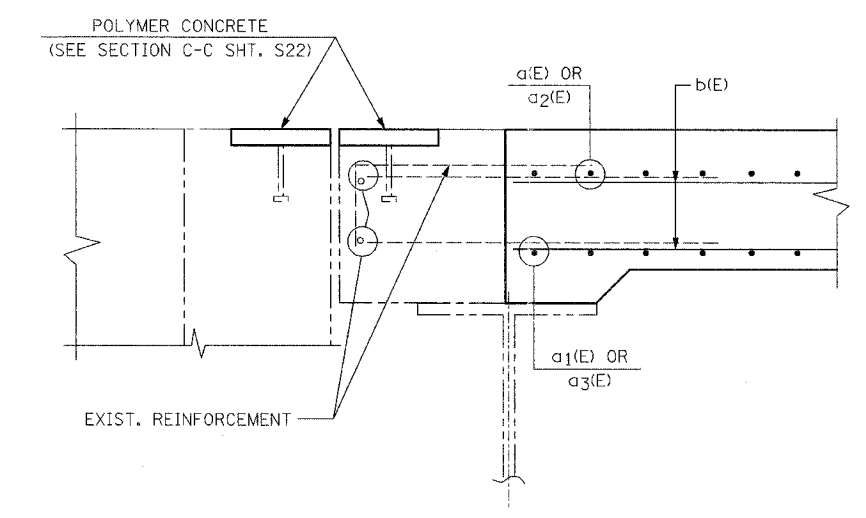
(SEE SECTION C-C SHT. S22 FOR ADDITIONAL DETAILS)



DETAIL "H"

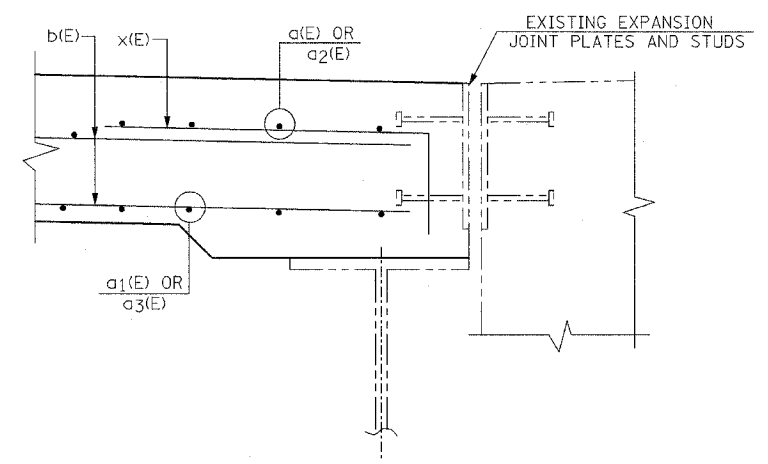


DETAIL "L"



SECTION N-N

(SEE SECTION C-C SHT. S22 FOR ADDITIONAL DETAILS)



SECTION J-J

\* COST INCLUDED WITH "CONCRETE REMOVAL"

NOTE: WORK THIS SHEET WITH SHT. S23

LEGEND



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT RESEALING DETAILS

F.A.I. RTE. 290 (I-290) OVER GOLF ROAD

F.A.I. RTE. 290 SECTION: 2006-0301

COOK COUNTY STATION 612+95.92

STRUCTURE NO. 016-0980

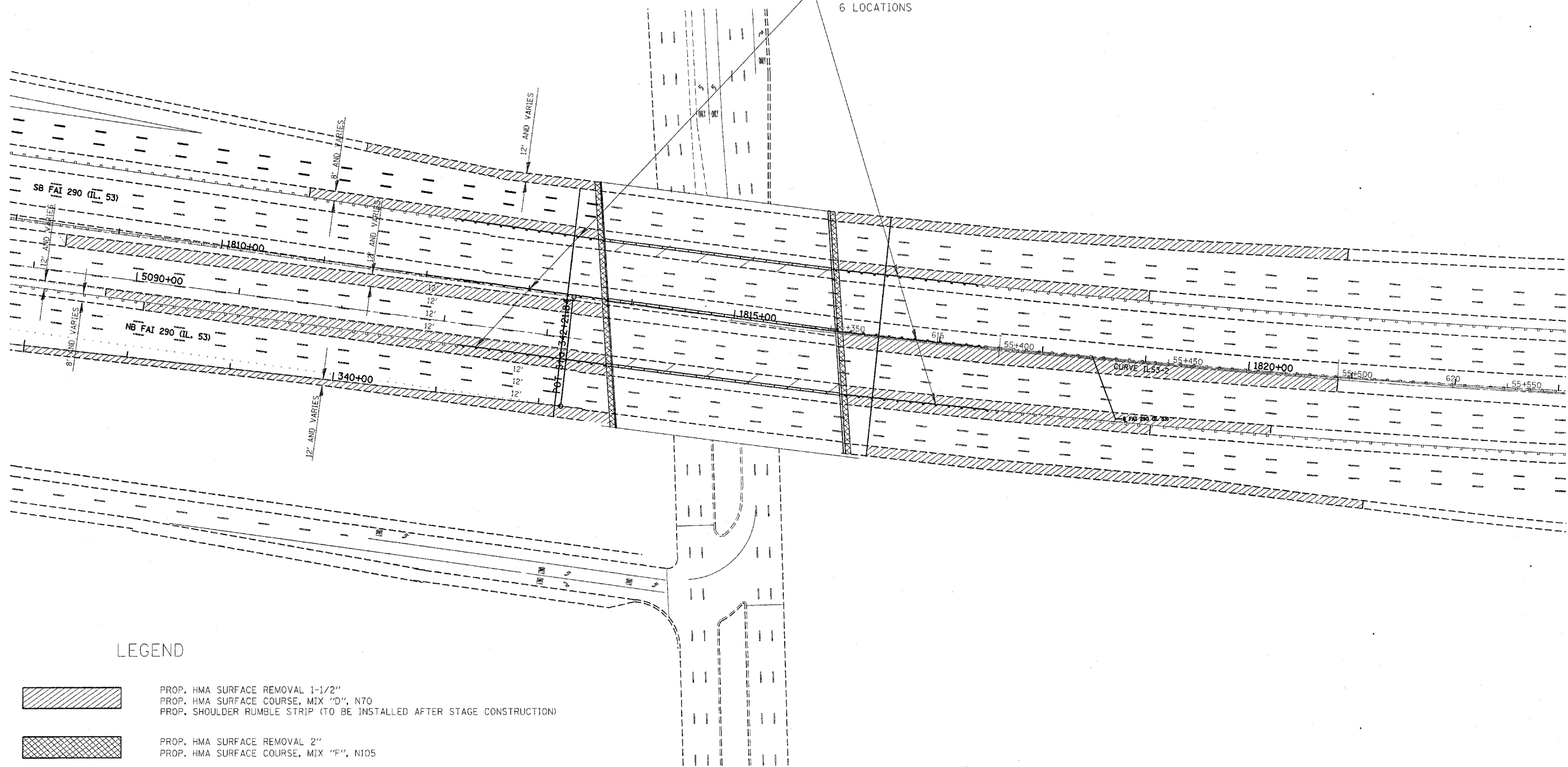
SCALE: DATE: MAY 10, 2007

DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

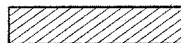

CHRISTIAN-ROGE & ASSOC., INC. CHICAGO ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	61
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROP. TRAFFIC BARRIER TERMINAL TYPE 6 - 1 EACH  
 PROP. STEEL PLATE BEAM GUARDRAIL, TYPE D - 100 L.F.  
 6 LOCATIONS



LEGEND

-  PROP. HMA SURFACE REMOVAL 1-1/2"  
 PROP. HMA SURFACE COURSE, MIX "D", N70  
 PROP. SHOULDER RUMBLE STRIP (TO BE INSTALLED AFTER STAGE CONSTRUCTION)
-  PROP. HMA SURFACE REMOVAL 2"  
 PROP. HMA SURFACE COURSE, MIX "F", N105

NOTE

HMA RESURFACING OF THE EXISTING ROADWAY SHOULDERS SHALL BE LIMITED TO AREAS WHERE TRAFFIC HAS TO BE WEAVED INTO THE SHOULDER FOR STAGING. SHOULDER RESURFACING SHALL BE COMPLETED PRIOR TO STAGE CONSTRUCTION.

REVISIONS	
NAME	DATE

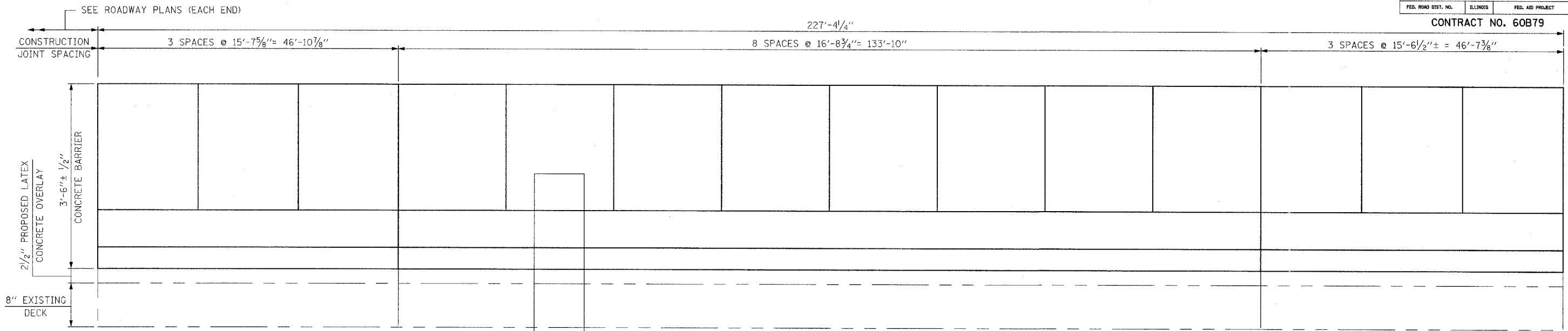
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ROADWAY PLANS  
 I-290/IL. 53 AT  
 ILL. 58 (GOLF RD.)

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

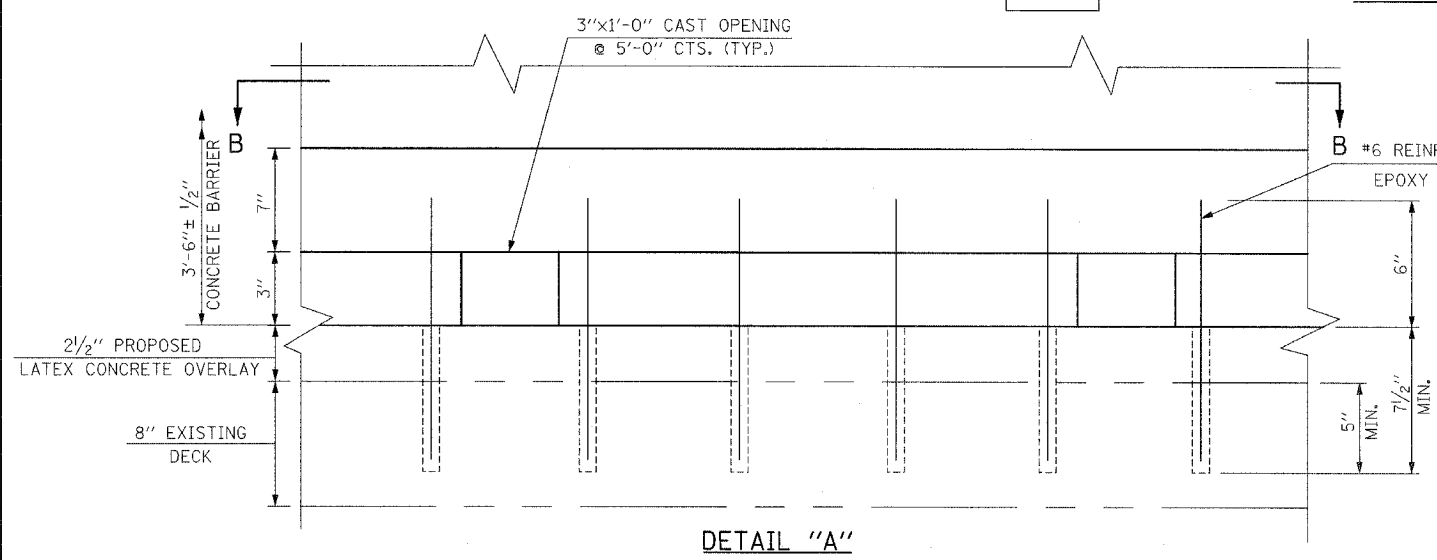
PLOT DATE = 5/15/2007  
 FILE NAME = c:\p\projects\422006\design\road.dgn  
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 USER NAME = ritchens

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	62
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

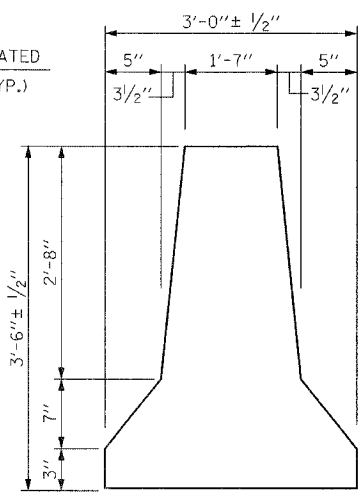
CONTRACT NO. 60B79



**CONCRETE BARRIER ELEVATION**  
(LOOKING WEST)  
(3 THUS)

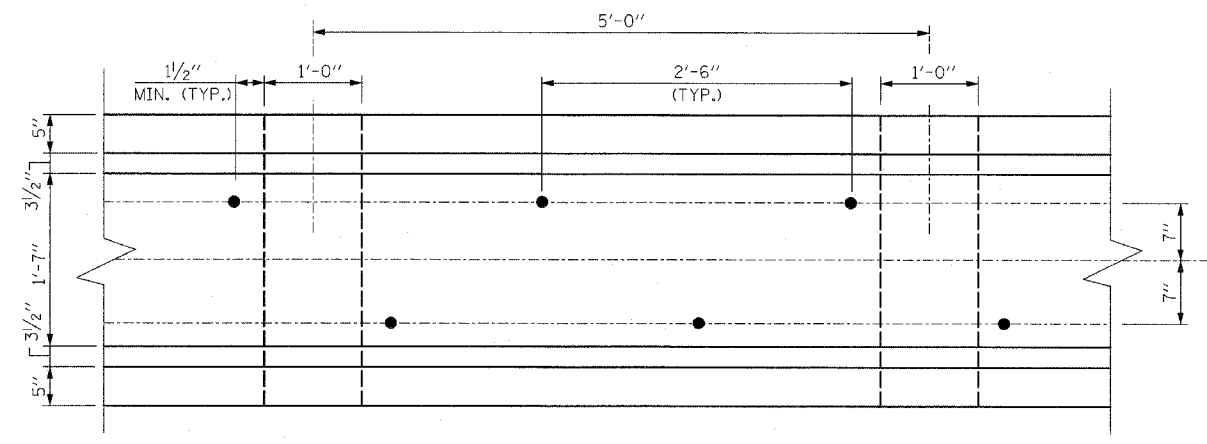


**DETAIL "A"**



**TYPICAL SECTION THRU CONCRETE BARRIER**

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
CONCRETE BARRIER, DOUBLE FACE, 42 IN.	FT.	683



**SECTION B-B**

**NOTE:**  
VERTICAL DIMENSIONS ARE EXAGGERATED FOR CLARITY

**NOTES:**  
CONCRETE BARRIERS SHALL CONFORM TO STANDARD 637006, EXCEPT AS NOTED.  
FOR BARRIER LOCATIONS, SEE SHEETS S3 & S4.  
REINFORCEMENT BARS, EPOXY COATED, CAST OPENINGS AND EPOXY GROUTING SHALL BE INCLUDED WITH "CONCRETE BARRIER, DOUBLE FACE, 42 IN"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CONCRETE BARRIER**  
 F.A.I. RTE. 290 (I-290) OVER GOLF ROAD  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 612+95.92  
 STRUCTURE NO. 016-0980

SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS



**EXISTING STRUCTURE: S.N. 016-0978**

BUILT IN 1970 AS A 3 SPAN WIDE FLANGE STEEL GIRDER BRIDGE CARRYING F.A.I. ROUTE 290 (I-290) OVER WOODFIELD DRIVE.

SHEET S26 OF S34		F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		290	2006-0301	COOK	78	63
STA.	TO STA.					
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT				

CONTRACT NO. 60B79

**SCOPE OF WORK:**

REMOVE THE EXIST. 1 3/4" HOT-MIX ASPHALT SURFACE & HYDRO-SCARIFY 3/4" OF THE CONCRETE SURFACE.

MARK AREAS OF FULL DEPTH REMOVAL.

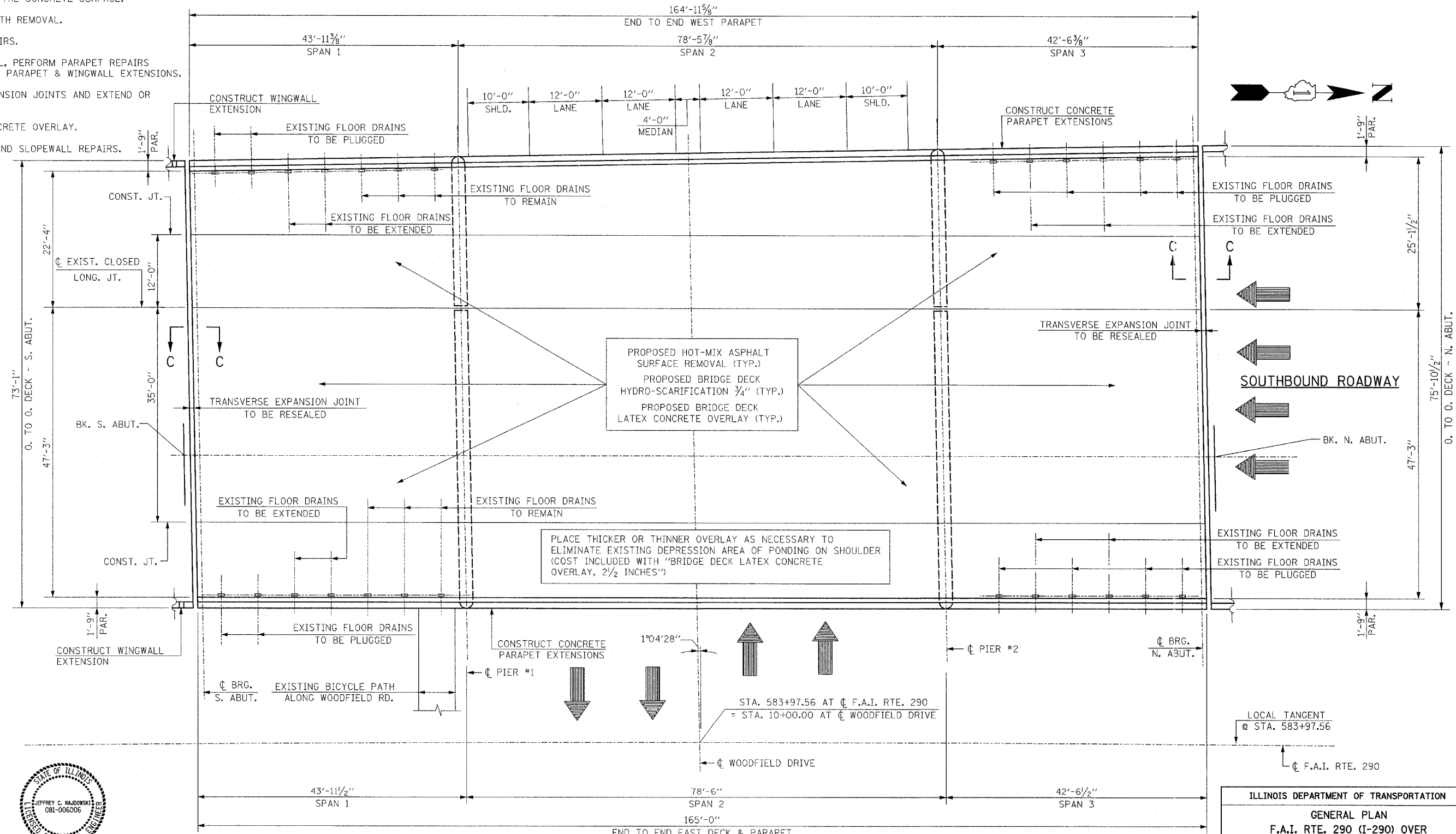
PERFORM DECK SLAB REPAIRS.

REMOVE PARAPET HANDRAIL, PERFORM PARAPET REPAIRS AND CONSTRUCT CONCRETE PARAPET & WINGWALL EXTENSIONS.

RESEAL TRANSVERSE EXPANSION JOINTS AND EXTEND OR PLUG FLOOR DRAINS.

PLACE A 2 1/2" LATEX CONCRETE OVERLAY.

PERFORM SUBSTRUCTURE AND SLOPEWALL REPAIRS.



**EXIST. PLAN - SOUTHBOUND ROADWAY**



JEFFREY C. NAJDOWSKI  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS LIC. No. 081-006006  
EXPIRES: 11-30-08

REVISIONS	
NAME	DATE

NOTE:  
FOR SECTION C-C SEE SHT. S34.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
F.A.I. RTE. 290 (I-290) OVER  
WOODFIELD DRIVE  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 583+97.56  
STRUCTURE NO. 016-0978

SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

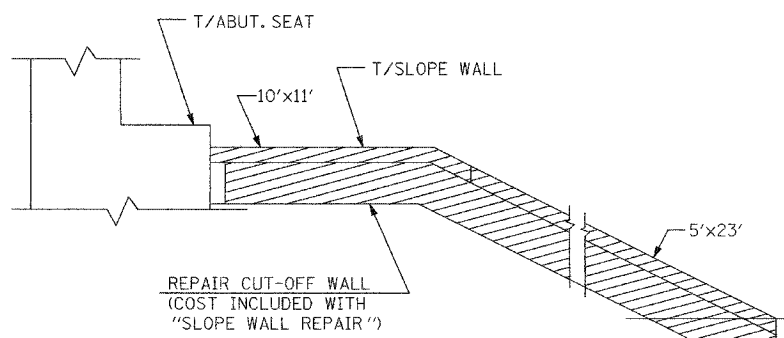
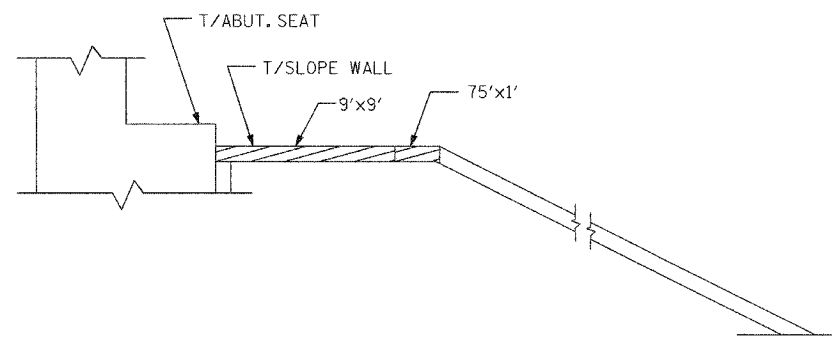
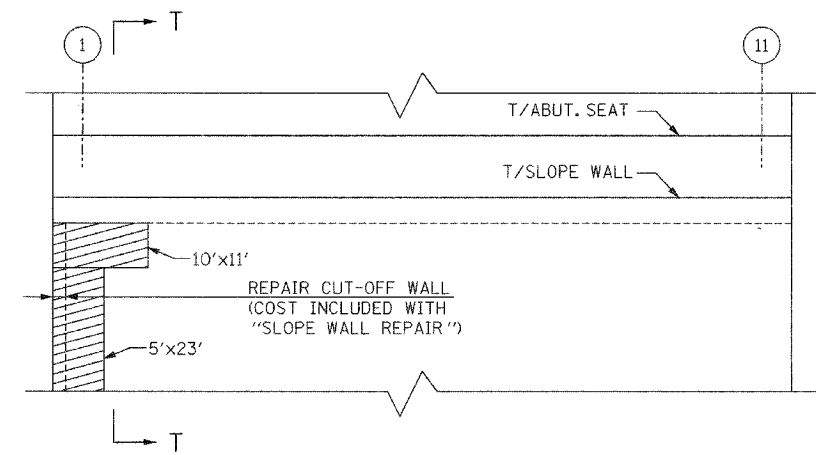
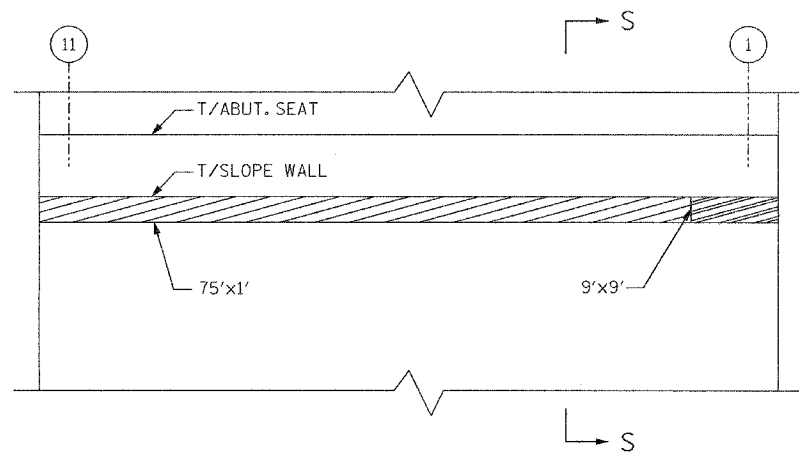
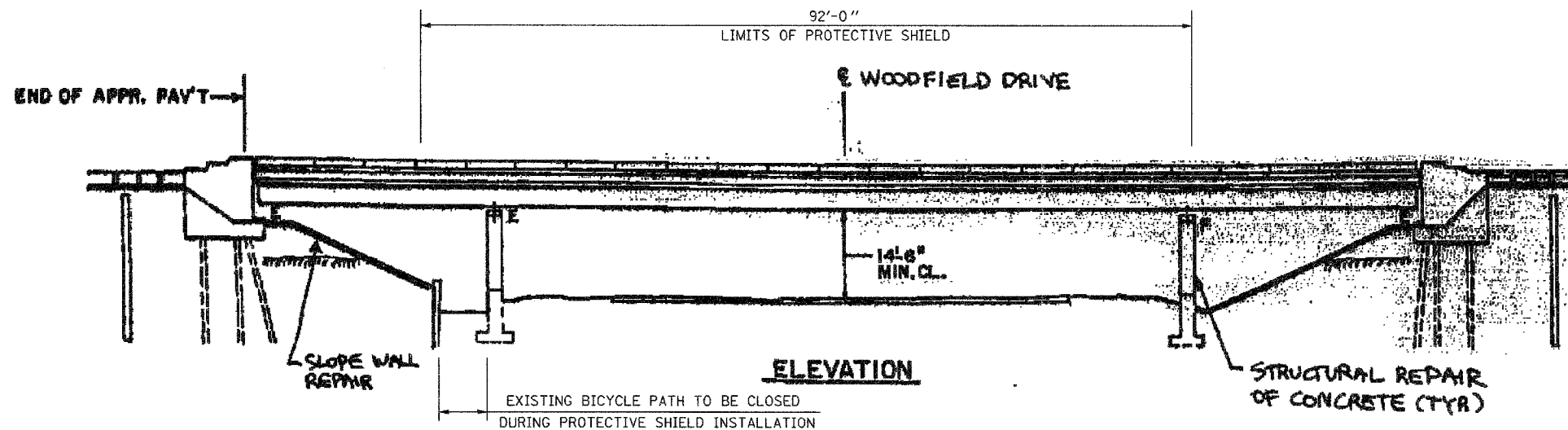
F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	64
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79

**GENERAL NOTES:**

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
2. THE CONTRACTOR MUST USE EXTREME CAUTION DURING CONCRETE REMOVAL AND MUST NOT NICK, CUT OR DAMAGE IN ANY WAY, ANY OF THE STEEL BEAMS. THE EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 36 UNLESS OTHERWISE NOTED.
4. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
5. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706, GR. 60 (IL. MODIFIED). SEE SPECIAL PROVISIONS.
6. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ. YD.	1,303
PROTECTIVE SHIELD	SQ. YD.	765
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	93
EPOXY CRACK INJECTION	FT.	4
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ. YD.	1,303
SILICONE JOINT SEALER, 1 3/4"	FT.	76
SILICONE JOINT SEALER, 2 3/4"	FT.	74
BRIDGE DECK HYDRO-SCARIFICATION 3/4"	SQ. YD.	1,303
FLOOR DRAIN EXTENSION	EACH	8
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	5
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	95
SLOPE WALL REPAIR	SQ. YD.	43
REINFORCEMENT BARS, EPOXY COATED	LB.	1,800
CONCRETE SUPERSTRUCTURE	CU. YD.	9
PLUG EXISTING FLOOR DRAINS	EACH	12



SLOPE WALL REPAIR

D-91-428-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ELEVATION AND GENERAL NOTES

F.A.I. RTE. 290 (I-290) OVER WOODFIELD DRIVE

F.A.I. RTE. 290 SECTION: 2006-0301

COOK COUNTY STATION 583+97.56

STRUCTURE NO. 016-0978

SCALE: DATE: MAY 10, 2007

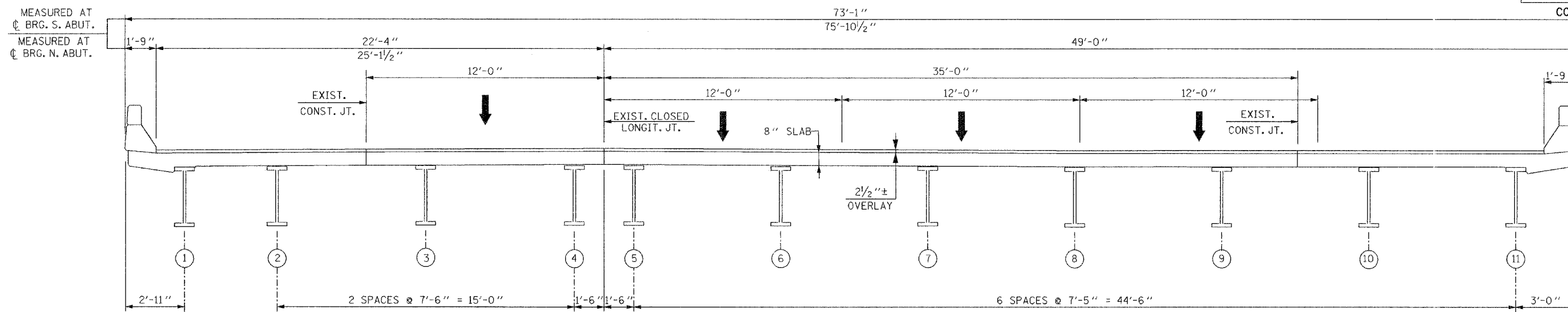
DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

**CHRISTIAN-ROGE & ASSOC., INC.**

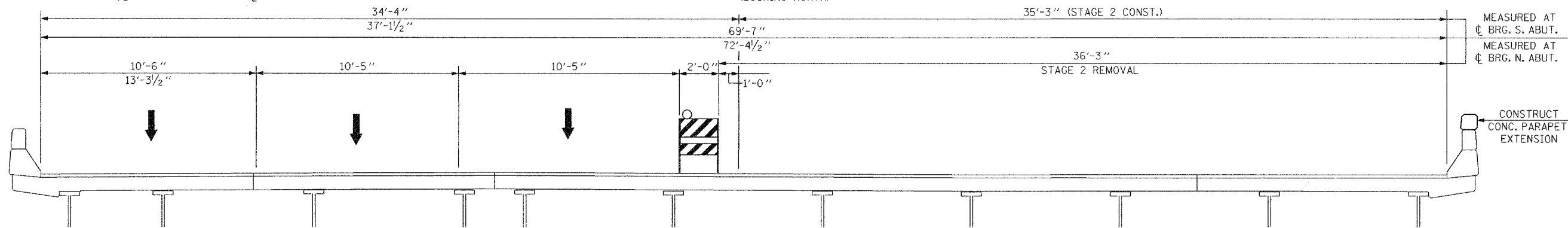
CHICAGO ILLINOIS

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	65
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

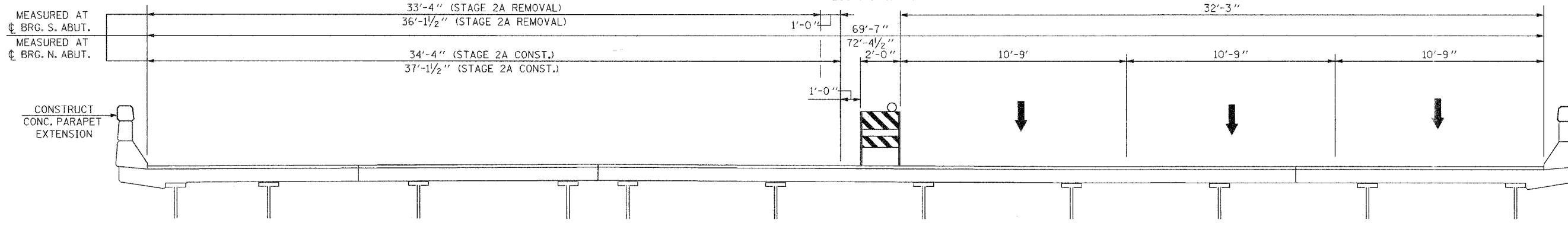
CONTRACT NO. 60B79



\* EXIST. DECK CROSS SECTION - SOUTHBOUND ROADWAY (LOOKING NORTH)



STAGE 2 CONSTRUCTION - SOUTHBOUND ROADWAY (LOOKING NORTH)



STAGE 2A CONSTRUCTION - SOUTHBOUND ROADWAY (LOOKING NORTH)

\* THERE IS NO WORK ON THIS BRIDGE DURING STAGE 1 & STAGE 1A CONSTRUCTION THEREFORE ALL TRAFFIC LANES WILL REMAIN OPEN DURING THESE STAGES

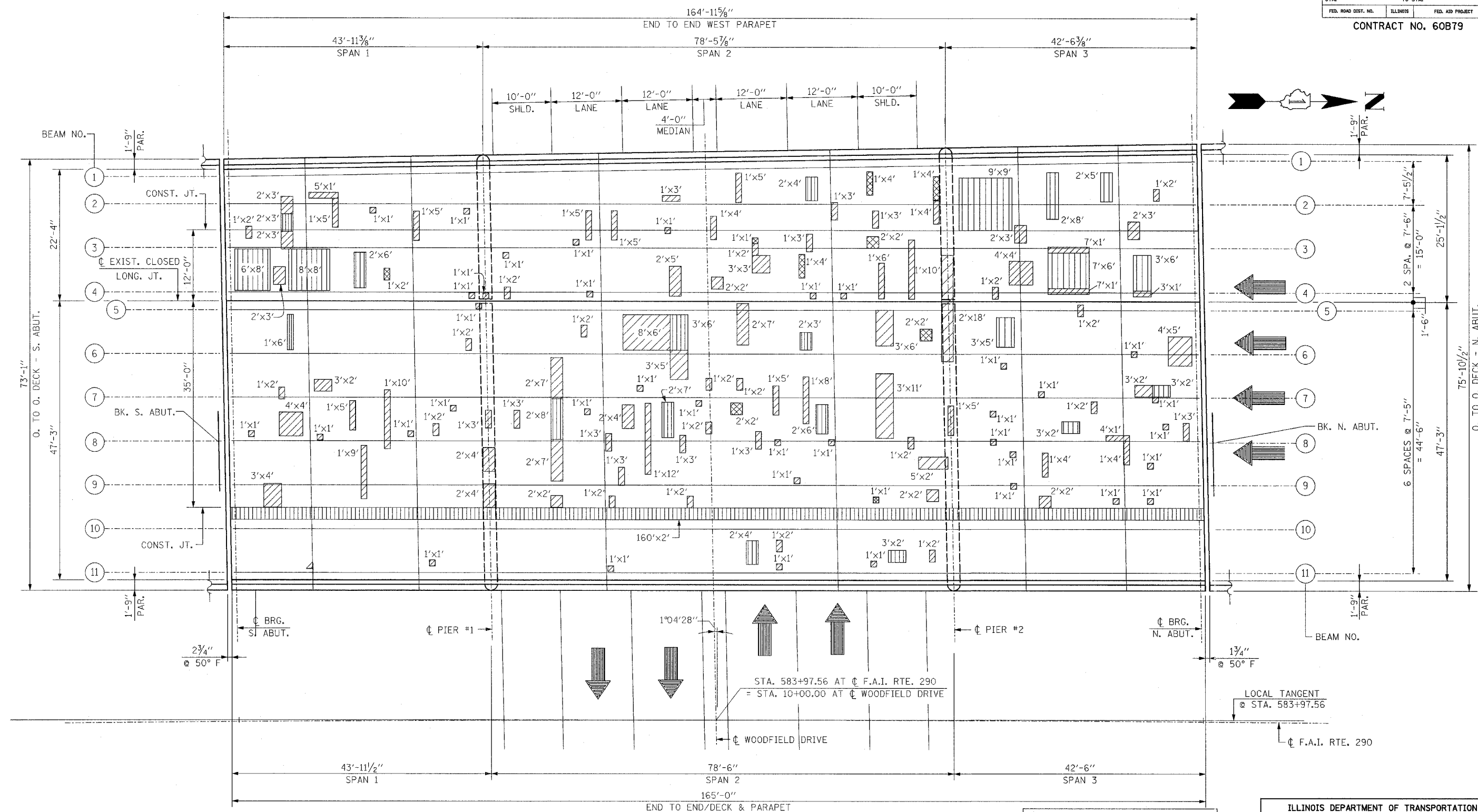
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXIST. DECK CROSS SECTION & STAGING  
 F.A.I. RTE. 290 (I-290) OVER WOODFIELD DRIVE  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION: 583+97.56  
 STRUCTURE NO. 016-0978

SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	66
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79



EXIST. PLAN - SOUTHBOUND ROADWAY

BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ. YD.	5
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ. YD.	95

LEGEND:

- \* [Hatched Pattern] DECK SLAB REPAIR (PARTIAL)
- [Cross-hatched Pattern] DECK SLAB REPAIR (FULL DEPTH, TYPE I)
- [Vertical Line Pattern] DECK SLAB REPAIR (FULL DEPTH, TYPE II)

REVISIONS	
NAME	DATE

NOTE:  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.  
PATCHING IS TO BE DETERMINED IN THE FIELD AT RESIDENT ENGINEER'S DISCRETION.

\* DECK SLAB PARTIAL REPAIR PATCHES ARE SHOWN FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING  
F.A.I. RTE. 290 (I-290) OVER  
WOODFIELD DRIVE  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 583+97.56  
STRUCTURE NO. 016-0978

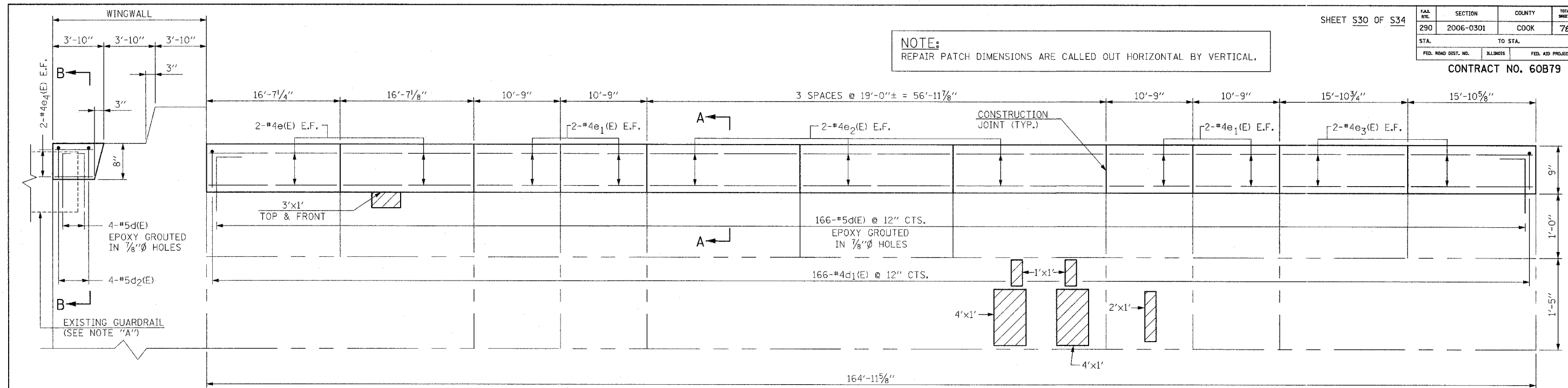
SCALE: DATE: MAY 10, 2007  
DRAWN BY: D.L./F.M.  
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
CHICAGO ILLINOIS

FED. AID DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	67
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

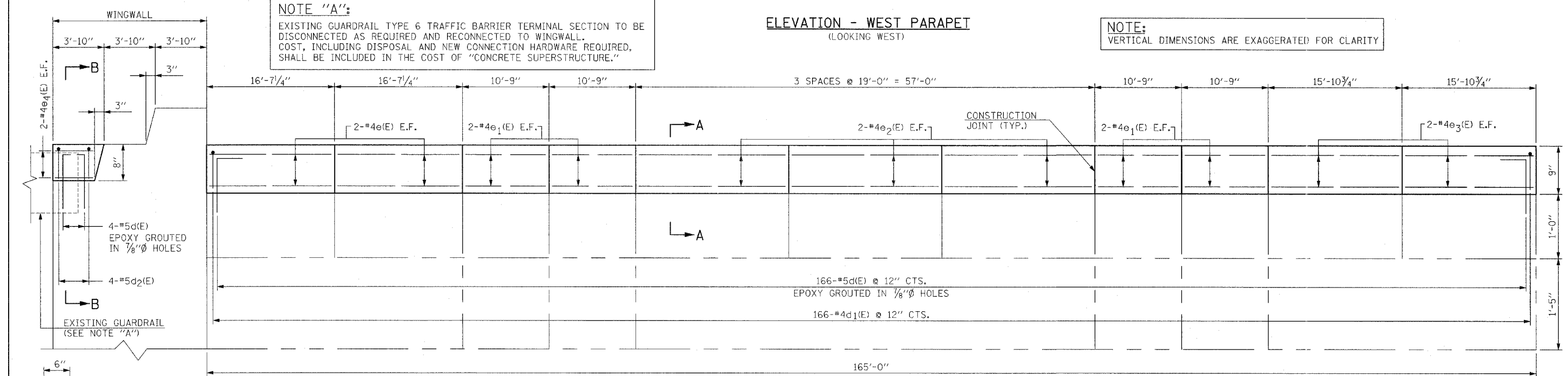
CONTRACT NO. 60B79

**NOTE:**  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.



**NOTE "A":**  
EXISTING GUARDRAIL TYPE 6 TRAFFIC BARRIER TERMINAL SECTION TO BE DISCONNECTED AS REQUIRED AND RECONNECTED TO WINGWALL. COST, INCLUDING DISPOSAL AND NEW CONNECTION HARDWARE REQUIRED, SHALL BE INCLUDED IN THE COST OF "CONCRETE SUPERSTRUCTURE."

**NOTE:**  
VERTICAL DIMENSIONS ARE EXAGGERATED FOR CLARITY



REINFORCEMENT BAR SCHEDULE				
BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	340	#5	1'-7"	└┘
d1(E)	332	#4	1'-7"	└┘
d2(E)	8	#4	1'-7"	└┘
e(E)	16	#4	16'-3"	—
e1(E)	32	#4	10'-5"	—
e2(E)	24	#4	18'-8"	—
e3(E)	16	#4	15'-6"	—
e4(E)	8	#4	3'-3"	—

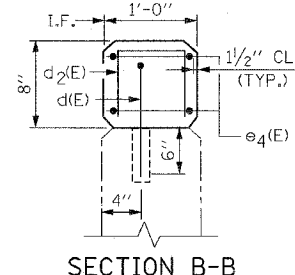
**WORK TO BE PERFORMED:**

- \* REMOVE BRIDGE HANDRAIL.
- PERFORM REPAIRS.
- CONSTRUCT PARAPET EXTENSIONS.

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	17
CONCRETE SUPERSTRUCTURE	CU. YD.	9
REINFORCEMENT BARS, EPOXY COATED	LB.	1,800

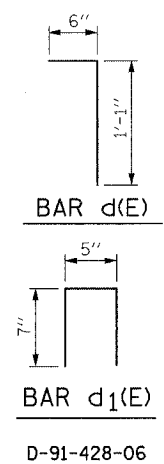
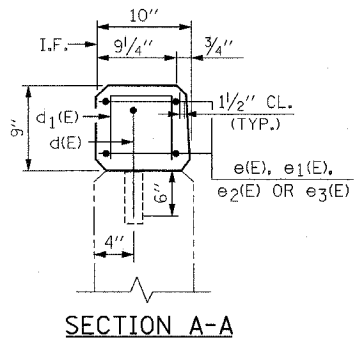
**ELEVATION - EAST PARAPET (LOOKING WEST)**

\* HANDRAIL REMOVAL IS INCLUDED WITH "CONCRETE SUPERSTRUCTURE"



**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")
- T, F.F. = TOP & FRONT FACE
- T, B.F. = TOP & BACK FACE
- T = TOP
- E.F. = EACH FACE
- I.F. = INSIDE FACE



ILLINOIS DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS  
F.A.I. RTE. 290 (I-290) OVER  
WOODFIELD DRIVE  
F.A.I. RTE. 290 SECTION: 2006-0301  
COOK COUNTY STATION 583+97.56  
STRUCTURE NO. 016-0978

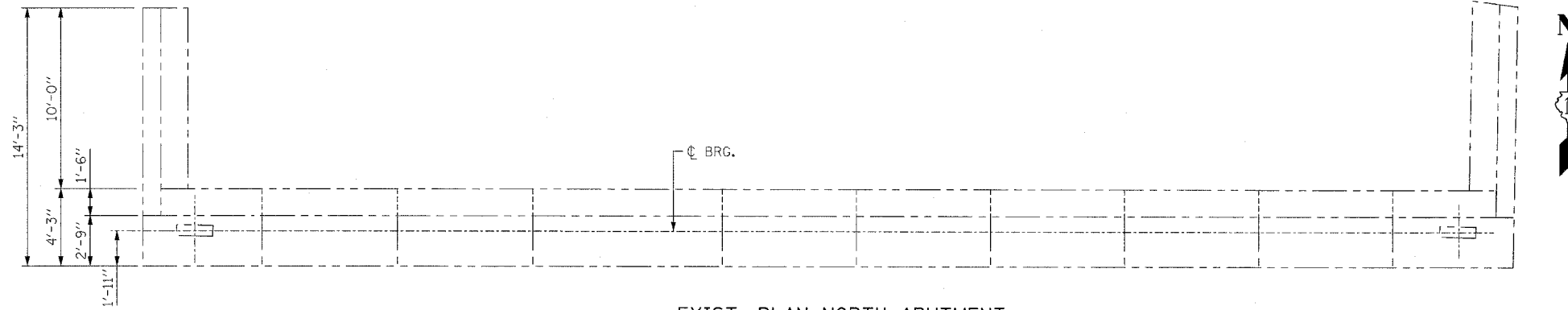
SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC. CHICAGO ILLINOIS

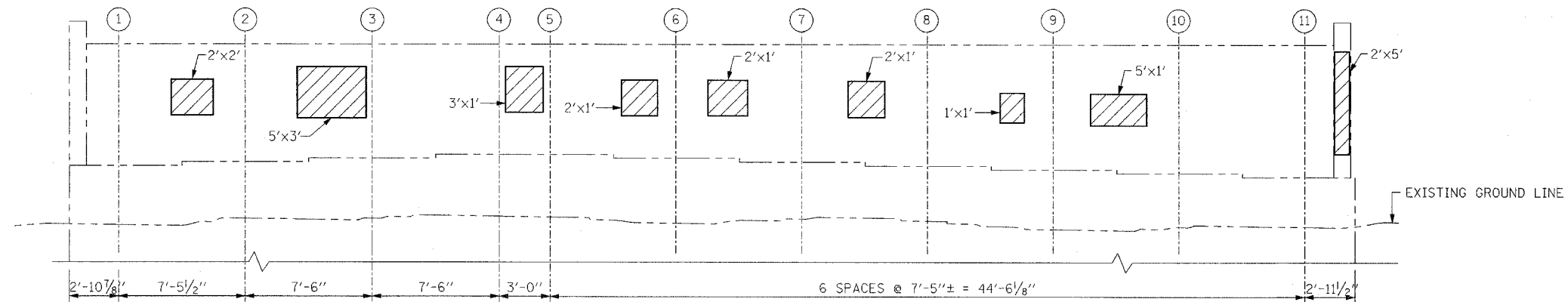
REVISIONS	
NAME	DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	48
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

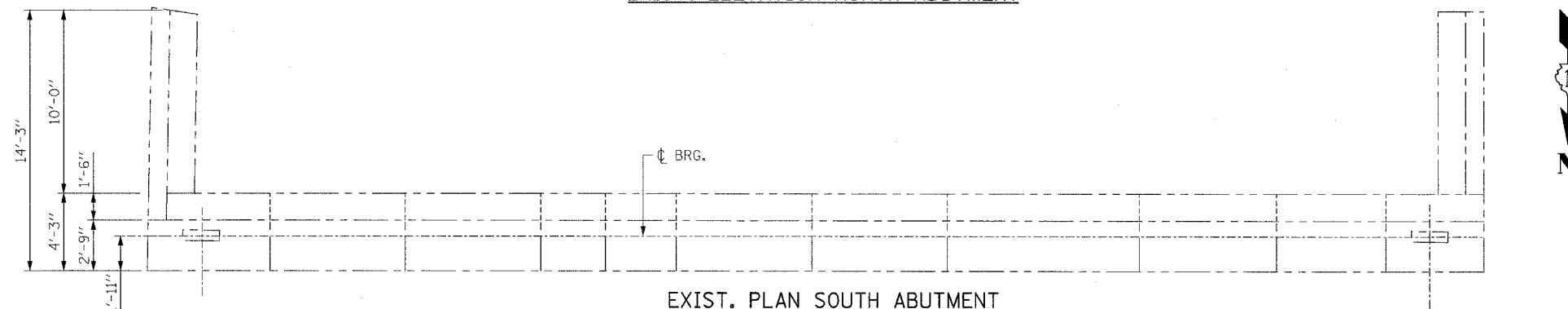
CONTRACT NO. 60B79



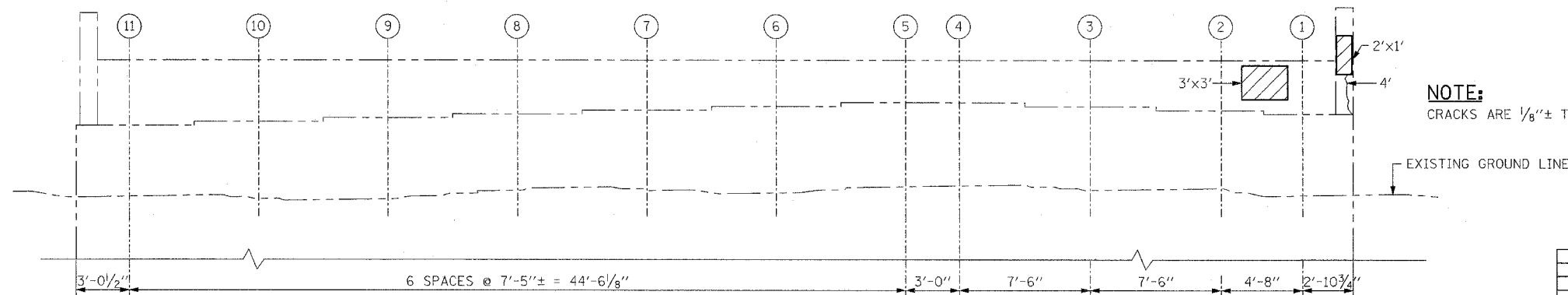
EXIST. PLAN NORTH ABUTMENT



EXIST. ELEVATION NORTH ABUTMENT



EXIST. PLAN SOUTH ABUTMENT



EXIST. ELEVATION SOUTH ABUTMENT

**NOTES:**  
 CRACK WIDTHS ARE  $\frac{1}{8}'' \pm \frac{1}{16}''$  UNLESS OTHERWISE NOTED.  
 REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.

**LEGEND:**

- STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")
- EPOXY CRACK INJECTION

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SO. FT.	64
EPOXY CRACK INJECTION	FT.	4

**NOTE:**  
 CRACKS ARE  $\frac{1}{8}'' \pm \frac{1}{16}'' \pm$  WIDE UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

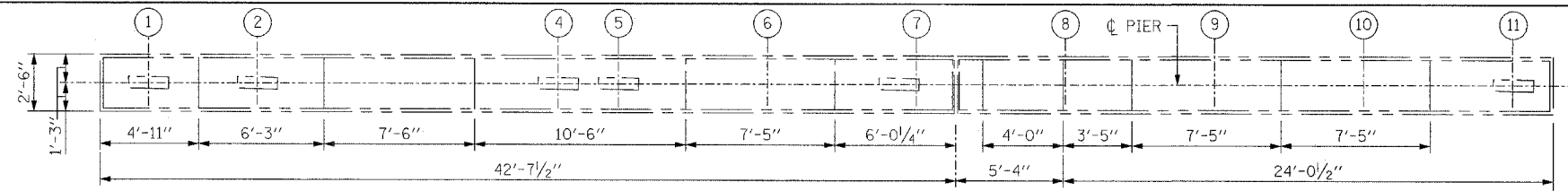
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 NORTH & SOUTH ABUTMENT REPAIRS  
 F.A.I. RTE. 290 (I-290) OVER  
 WOODFIELD DRIVE  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 583+97.56  
 STRUCTURE NO. 016-0978

SCALE: DATE: MAY 10, 2007 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	69
STA.	TO STA.		FED. AID PROJECT	

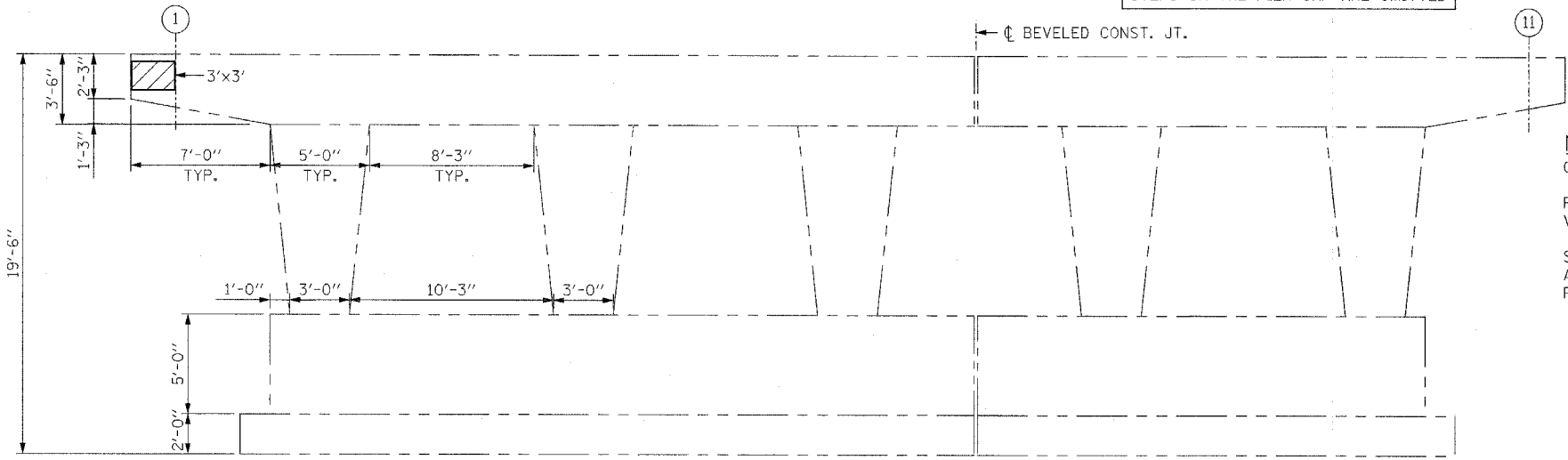
CONTRACT NO. 60B79

SHEET S32 OF S34



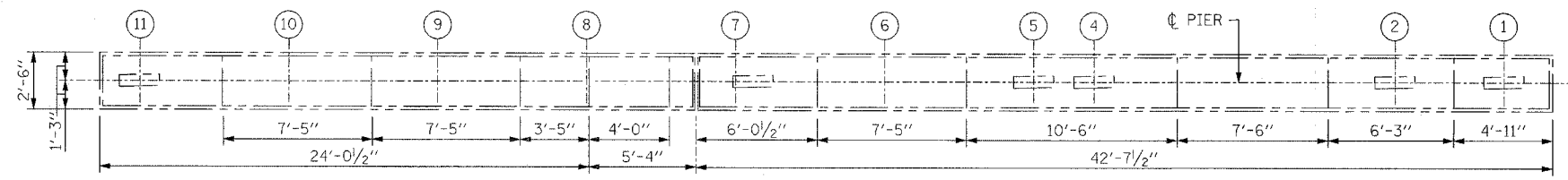
EXISTING TOP PLAN

NOTE:  
STEPS ON THE PIER CAP ARE OMITTED



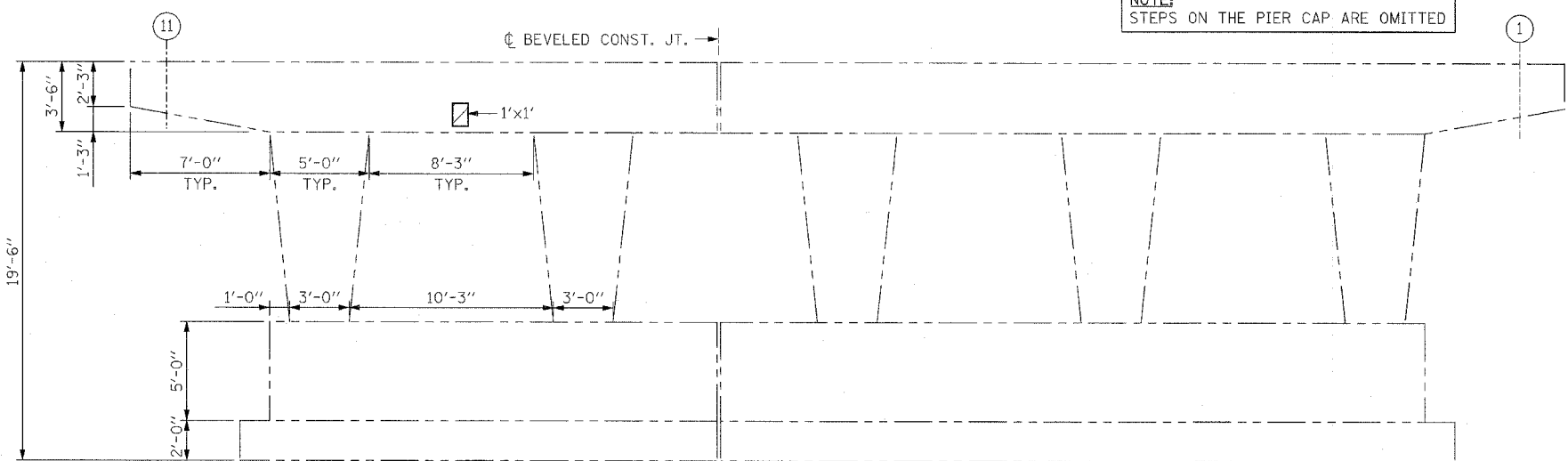
EXISTING ELEVATION  
(LOOKING NORTH)

NOTES:  
CRACK WIDTHS ARE 1/8" ± 1/16" UNLESS OTHERWISE NOTED.  
REPAIR PATCH DIMENSIONS ARE CALLED OUT HORIZONTAL BY VERTICAL.  
STRUCTURAL REPAIR OF CONCRETE AREAS SHALL BE DETERMINED AS LESS THAN 5" OR GREATER THAN 5" IN THE FIELD BY THE RESIDENT ENGINEER.



EXISTING TOP PLAN

NOTE:  
STEPS ON THE PIER CAP ARE OMITTED



EXISTING ELEVATION  
(LOOKING SOUTH)

LEGEND:  
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ. FT.	12

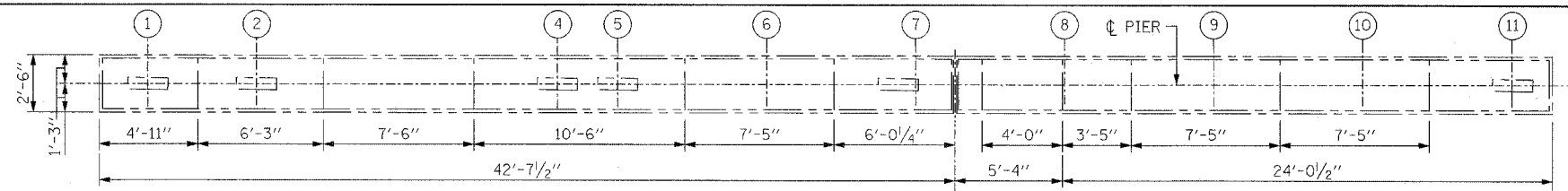
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PIER 1 REPAIRS**  
 F.A.I. RTE. 290 (I-290) OVER WOODFIELD DRIVE  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 583+97.56  
 STRUCTURE NO. 016-0978

SCALE: DATE: MAY 10, 2007  
 CHECKED BY: D.L./F.M. B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

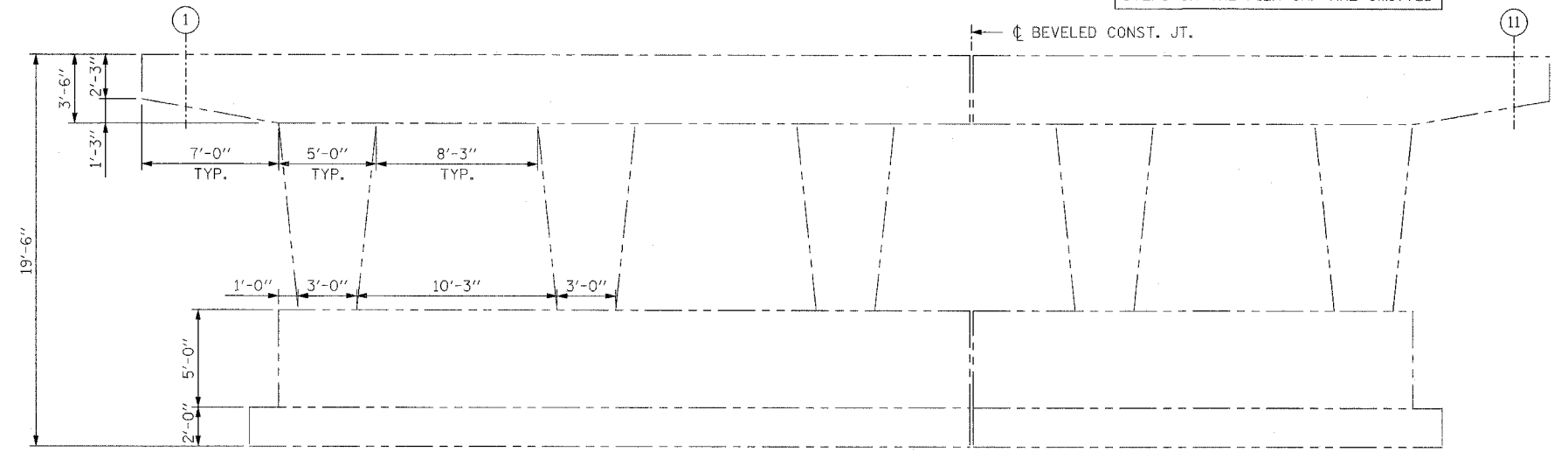
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	70
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79

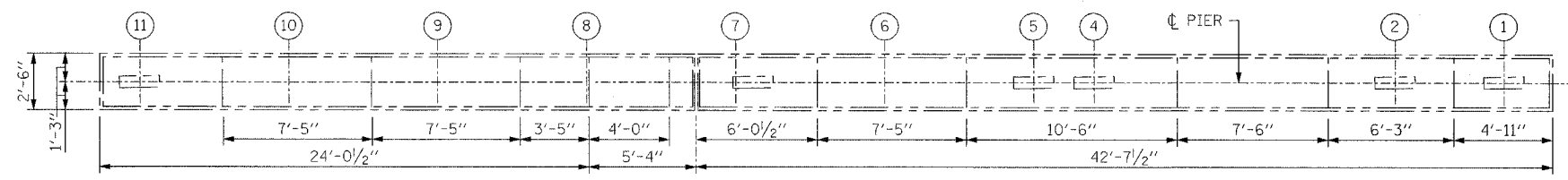


EXISTING TOP PLAN

NOTE:  
STEPS ON THE PIER CAP ARE OMITTED

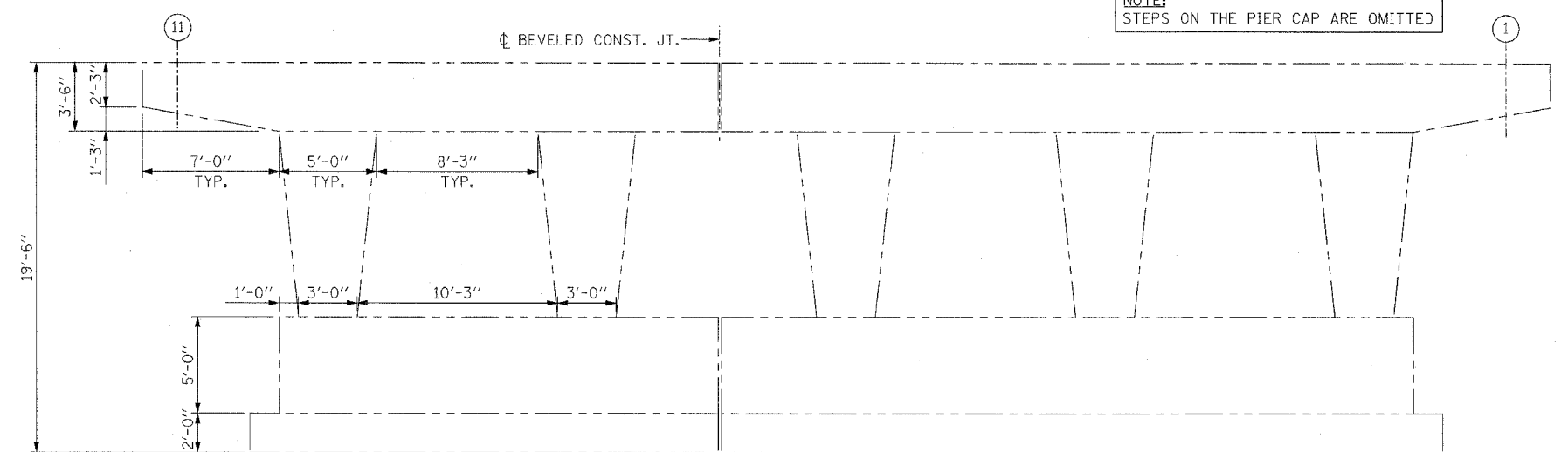


EXISTING ELEVATION  
(LOOKING NORTH)



EXISTING TOP PLAN

NOTE:  
STEPS ON THE PIER CAP ARE OMITTED



EXISTING ELEVATION  
(LOOKING SOUTH)

NOTE:  
NO REPAIRS ARE REQUIRED FOR PIER 2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIRS  
 F.A.I. RTE. 290 (I-290) OVER  
 WOODFIELD DRIVE  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 583+97.56  
 STRUCTURE NO. 016-0978

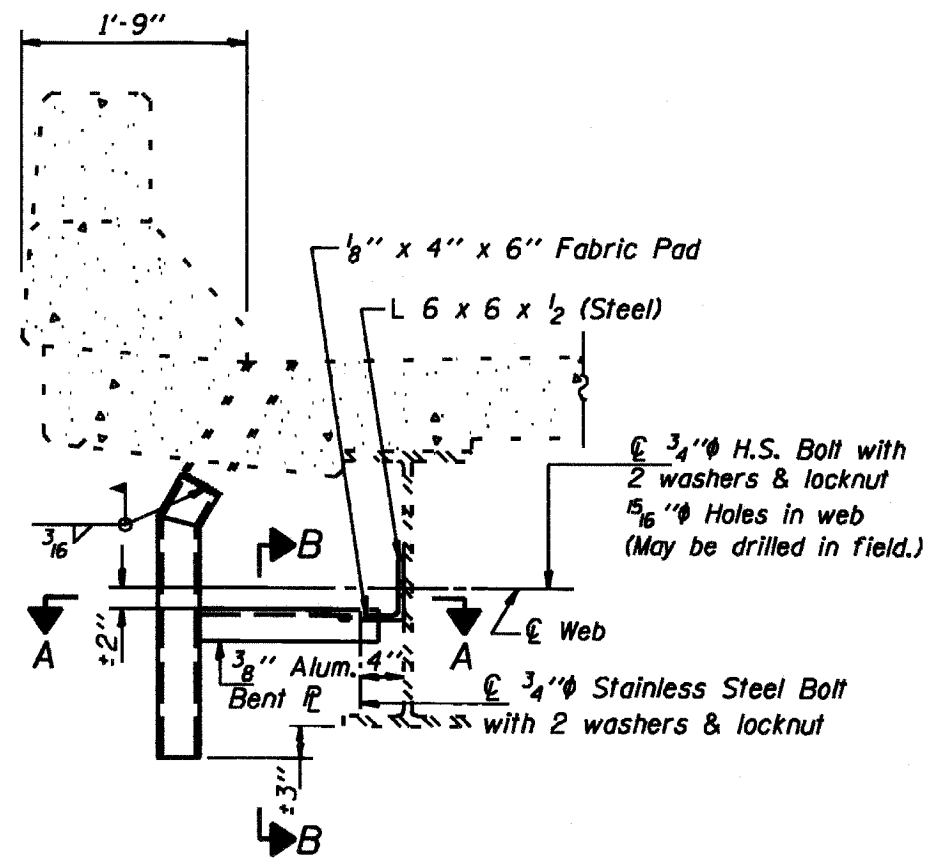
SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.  
 CHICAGO ILLINOIS

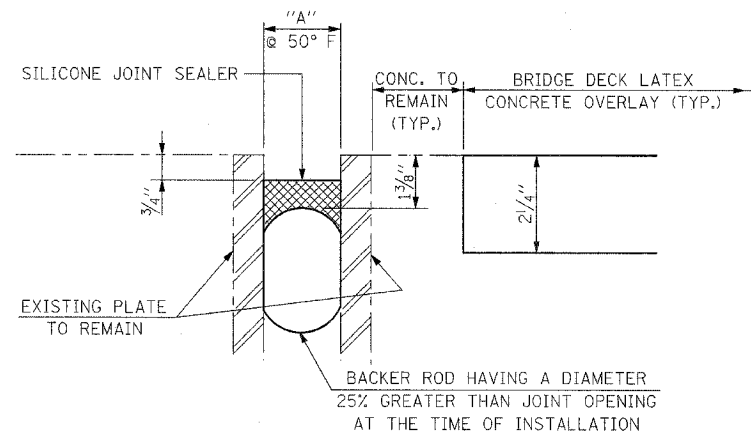


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-0301	COOK	78	72A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B79



**SECTION AT DRAIN**



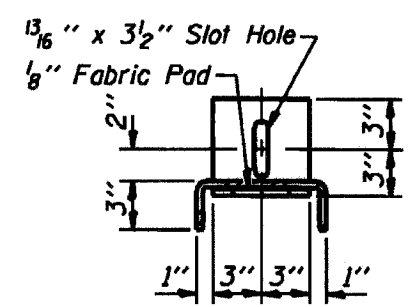
**SECTION C-C  
AT ABUTMENTS**

(EXISTING PREFORMED JOINT SEAL-TRANSVERSE EXPANSION JOINT)

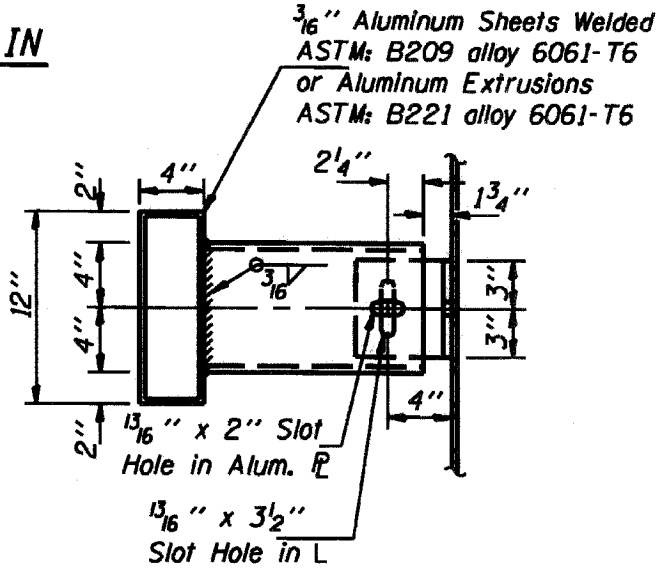
**NOTES:**

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
2. COST FOR REMOVAL OF EXISTING JOINT IS INCLUDED IN THE COST OF SILICONE JOINT SEALER.

LOCATION	DIM "A"	LENGTH OF SILICONE JOINT SEALER
NORTH ABUTMENT	1 3/4"	76'-0"
SOUTH ABUTMENT	2 3/4"	74'-0"

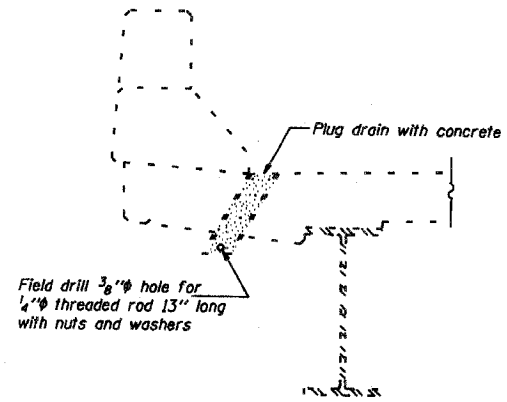


**SECTION B-B**



**SECTION A-A**

**DRAIN EXTENSION DETAIL**  
(8 THUS - SEE SHT S26 FOR LOCATIONS)



**SECTION AT DRAIN**

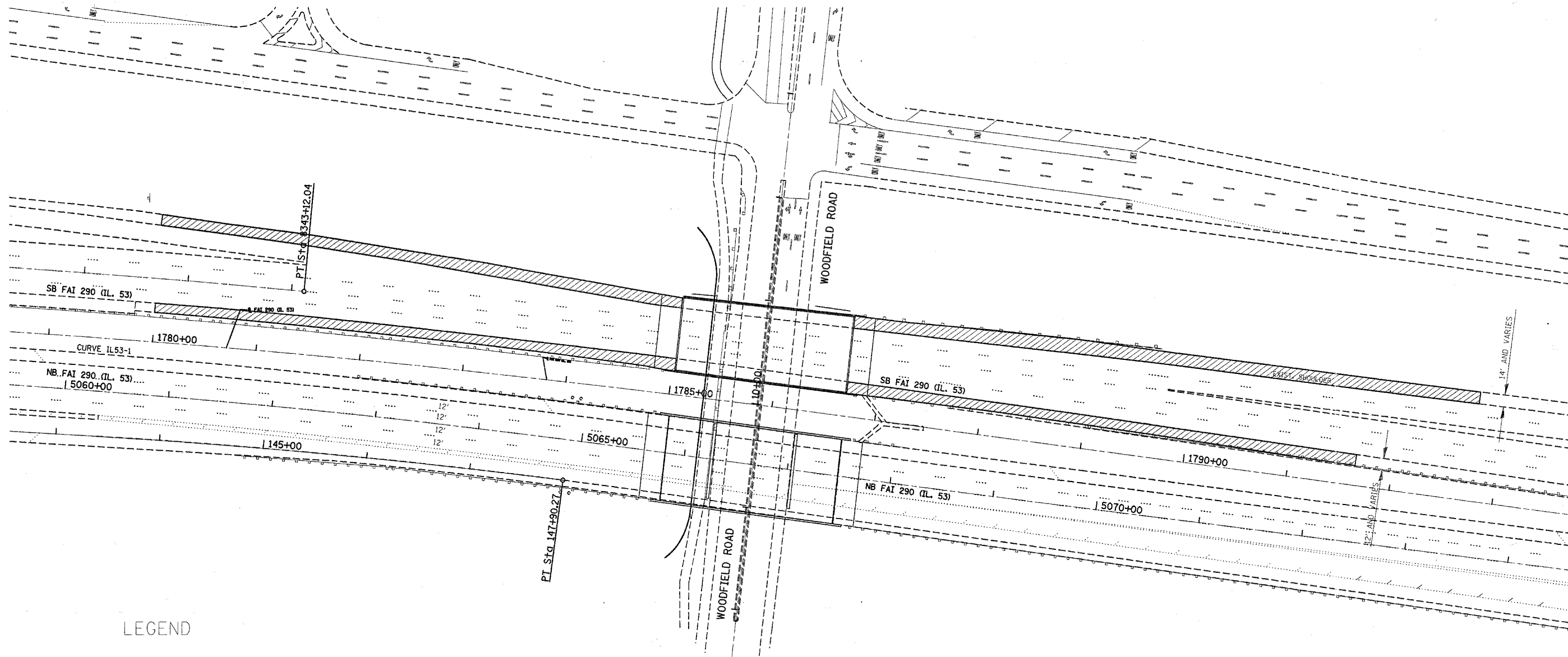
**DRAIN PLUGGING DETAIL**  
(12 THUS - SEE SHT S26 FOR LOCATIONS)

BILL OF MATERIAL		
DESCRIPTION	UNIT	QUANTITY
SILICONE JOINT SEALER, 1 3/4"	FT.	76
SILICONE JOINT SEALER, 2 3/4"	FT.	74
PLUG EXISTING FLOOR DRAINS	EACH	12
FLOOR DRAIN EXTENSION	EACH	8



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 JOINT RESEALING AND DRAIN EXTENSION DETAILS  
 F.A.I. RTE. 290 (I-290) OVER WOODFIELD DRIVE  
 F.A.I. RTE. 290 SECTION: 2006-0301  
 COOK COUNTY STATION 583+97.56  
 STRUCTURE NO. 016-0978  
 SCALE: DATE: MAY 10, 2007  
 DRAWN BY: D.L./F.M.  
 CHECKED BY: B.N.S./J.C.N.  
**CHRISTIAN-ROGE & ASSOC., INC.**  
 CHICAGO ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	COOK	78	70
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



LEGEND

-  PROP. HMA SURFACE REMOVAL 1-1/2"  
PROP. HMA SURFACE COURSE, MIX "D", N70  
PROP. SHOULDER RUMBLE STRIP (TO BE INSTALLED AFTER STAGE CONSTRUCTION)
-  PROP. HMA SURFACE REMOVAL 2"  
PROP. HMA SURFACE COURSE, MIX "F", N105

NOTE

HMA RESURFACING OF THE EXISTING ROADWAY SHOULDERS SHALL BE LIMITED TO AREAS WHERE TRAFFIC HAS TO BE WEAVED INTO THE SHOULDER FOR STAGING. SHOULDER RESURFACING SHALL BE COMPLETED PRIOR TO STAGE CONSTRUCTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

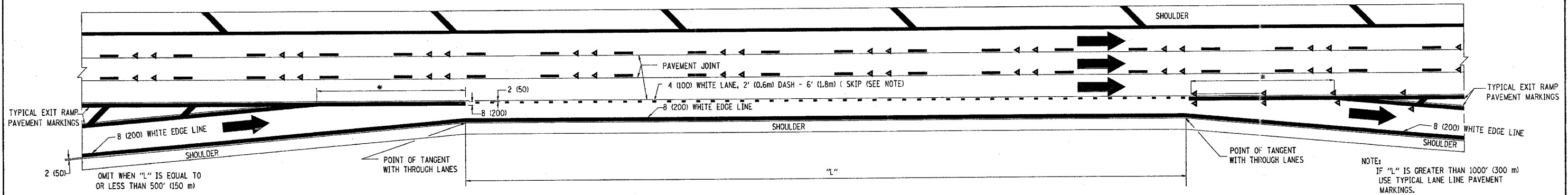
ROADWAY PLANS  
I-290/IL 53 AT  
WOODFIELD DR.

SCALE: VERT.  
HORIZ.  
DATE

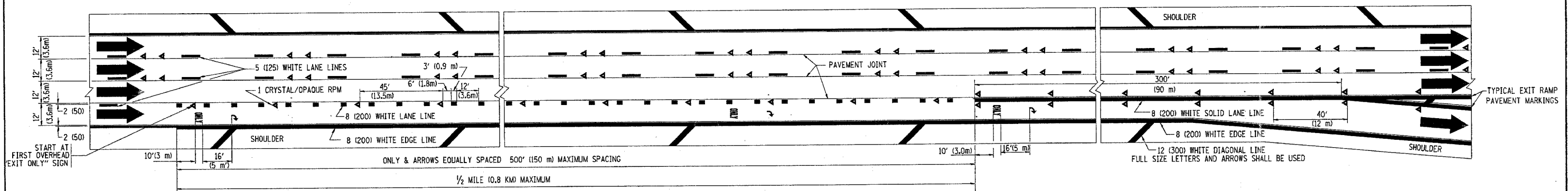
DRAWN BY  
CHECKED BY



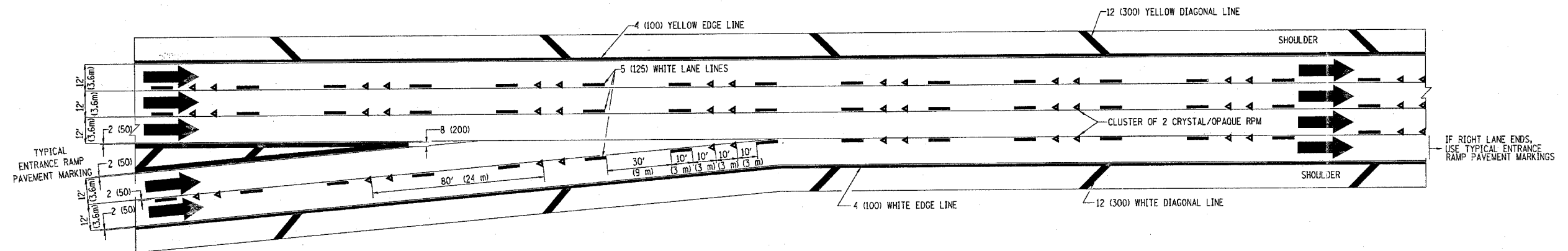
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	Cook	78	72
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY  
PAVEMENT MARKING  
DETAILS

SCALE: NONE

DRAWN BY C.A.D.D.

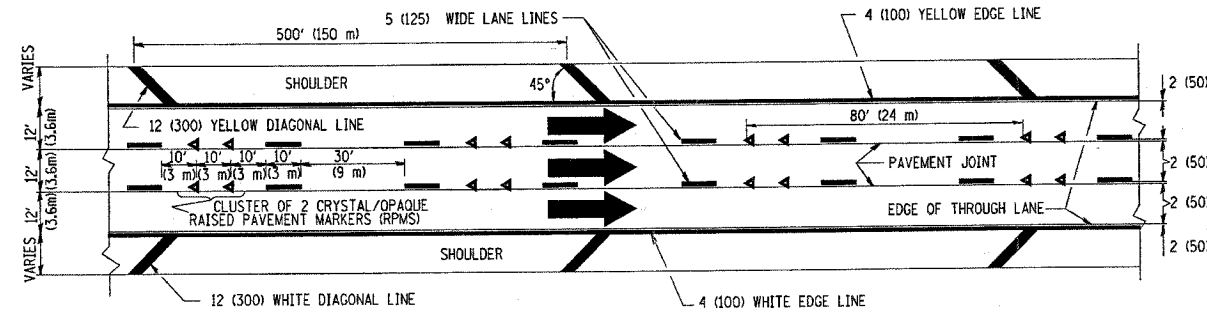
CHECKED BY

TC12 SHEET 2 OF 2

PLOT DATE = 3/6/2007  
FILE NAME = K:\dms\dms1\12.dgn  
PLOT SCALE = 3/8" = 1'-0"  
USER NAME = bounard

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	Cook	78	73
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

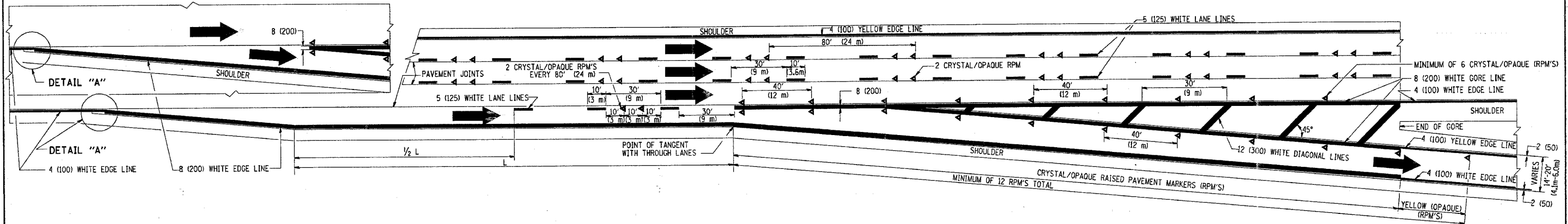
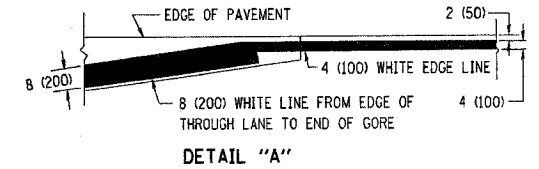
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH  
 THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



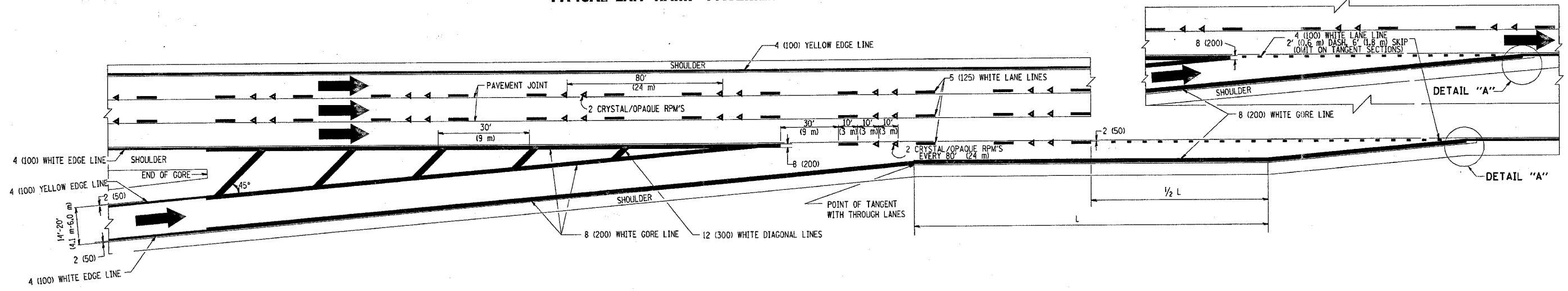
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96
JAF	2/06
SPB	1/07

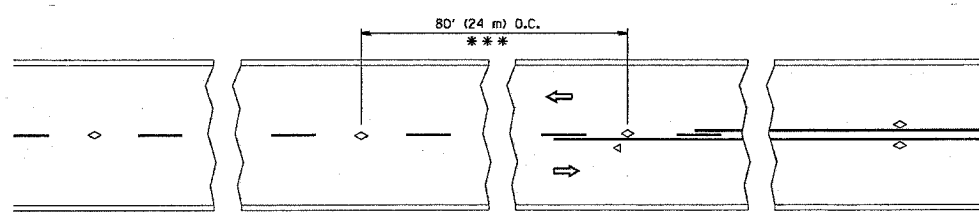
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 MULTI-LANE FREEWAY  
 PAVEMENT MARKING  
 DETAILS

SCALE: NONE

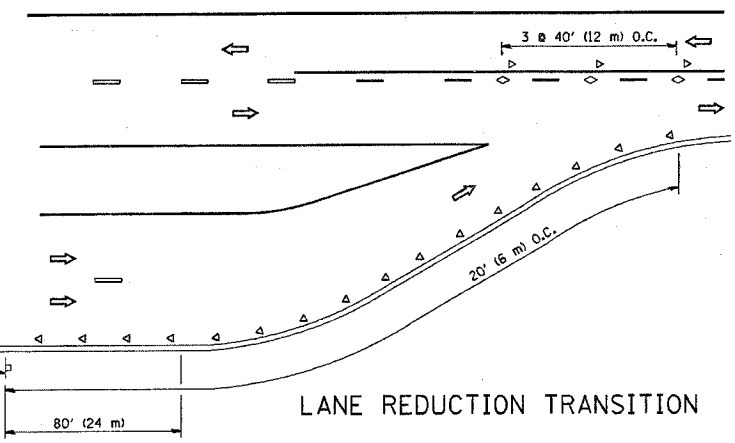
DRAWN BY C.A.D.D.

CHECKED BY

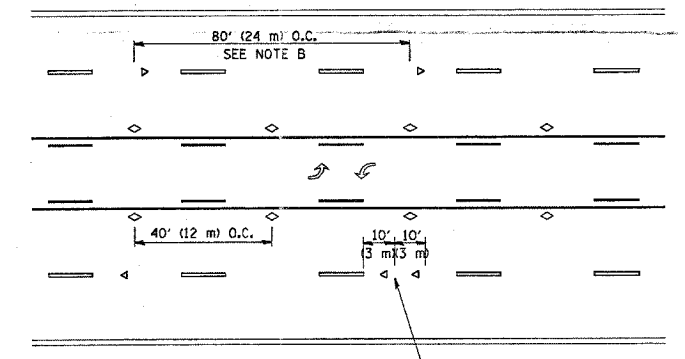
TC12 SHEET 1 OF 2



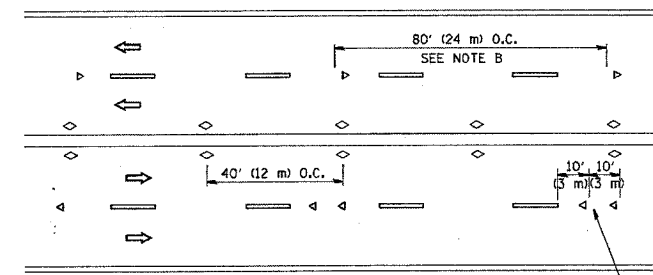
TWO-LANE/TWO-WAY



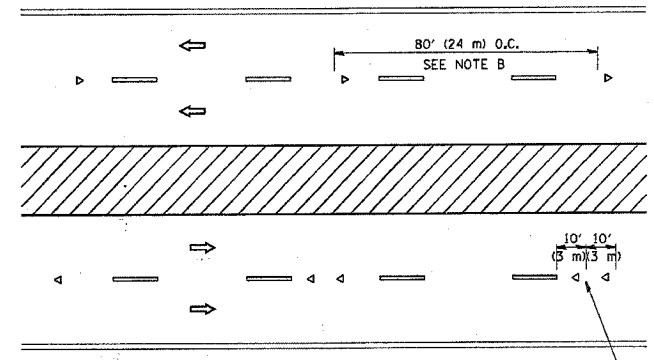
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

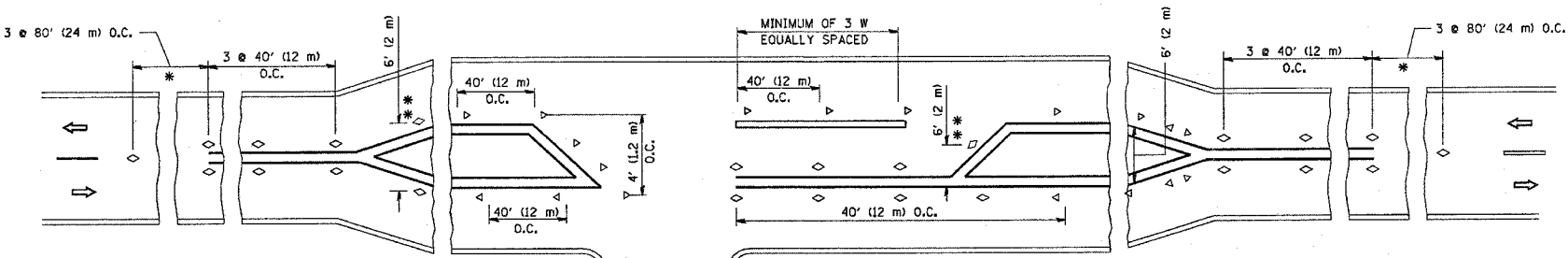
LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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



LEFT TURN

- \* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
- \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

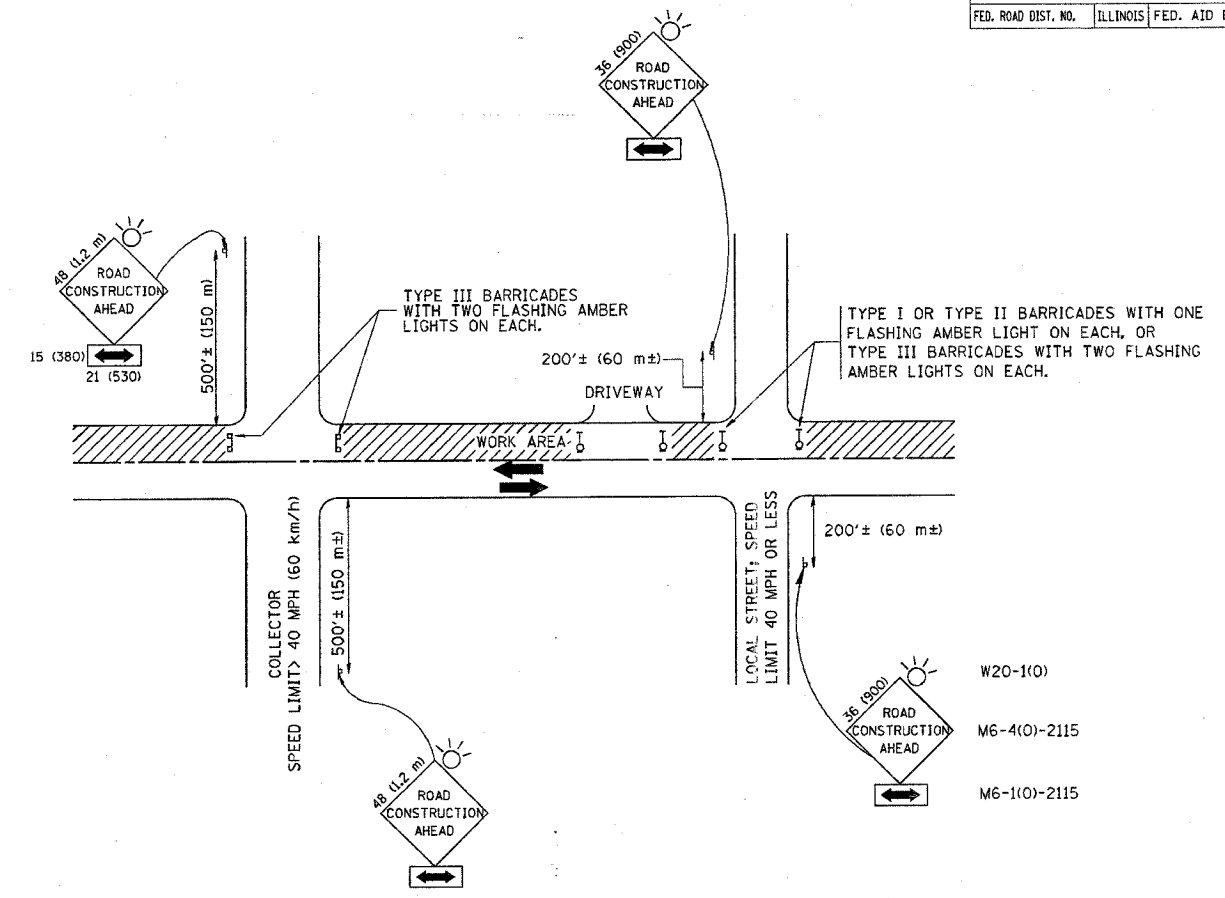
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT  
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

DRAWN BY CADD  
 CHECKED BY  
 TC-11

F.A. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	Cook	78	75
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

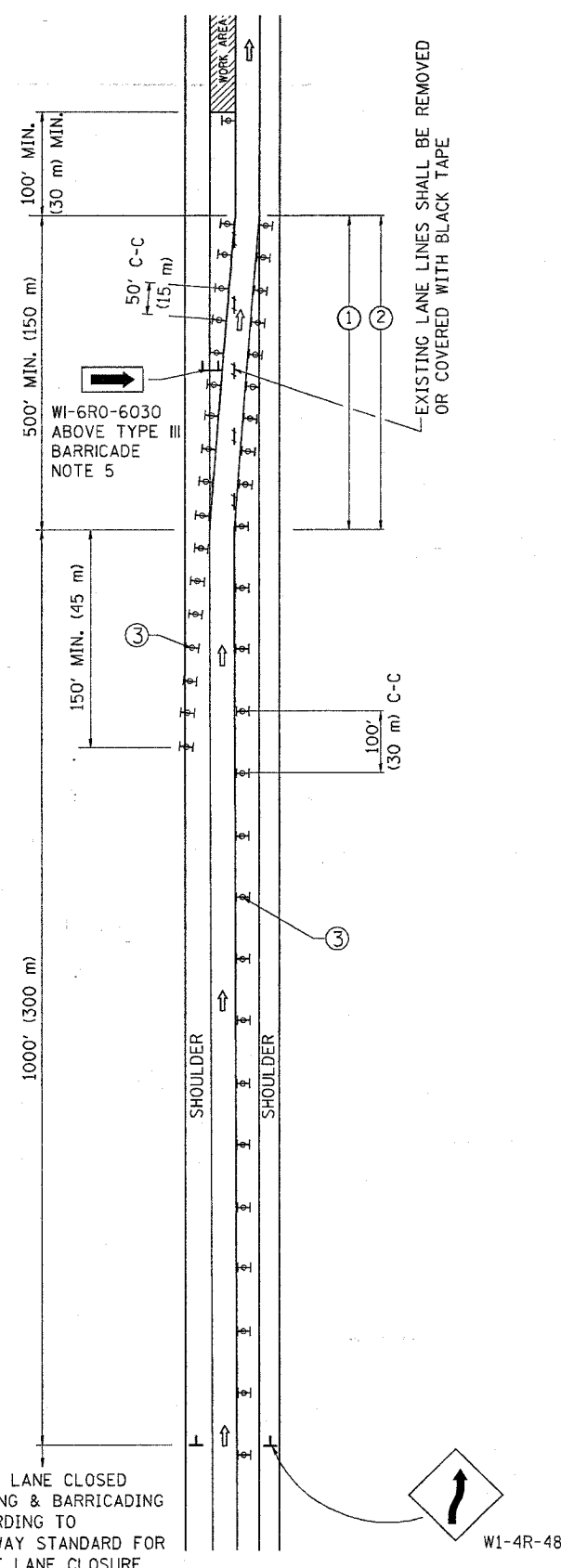
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

SCALE: NONE  
 DRAWN BY  
 CHECKED BY  
 TC-10

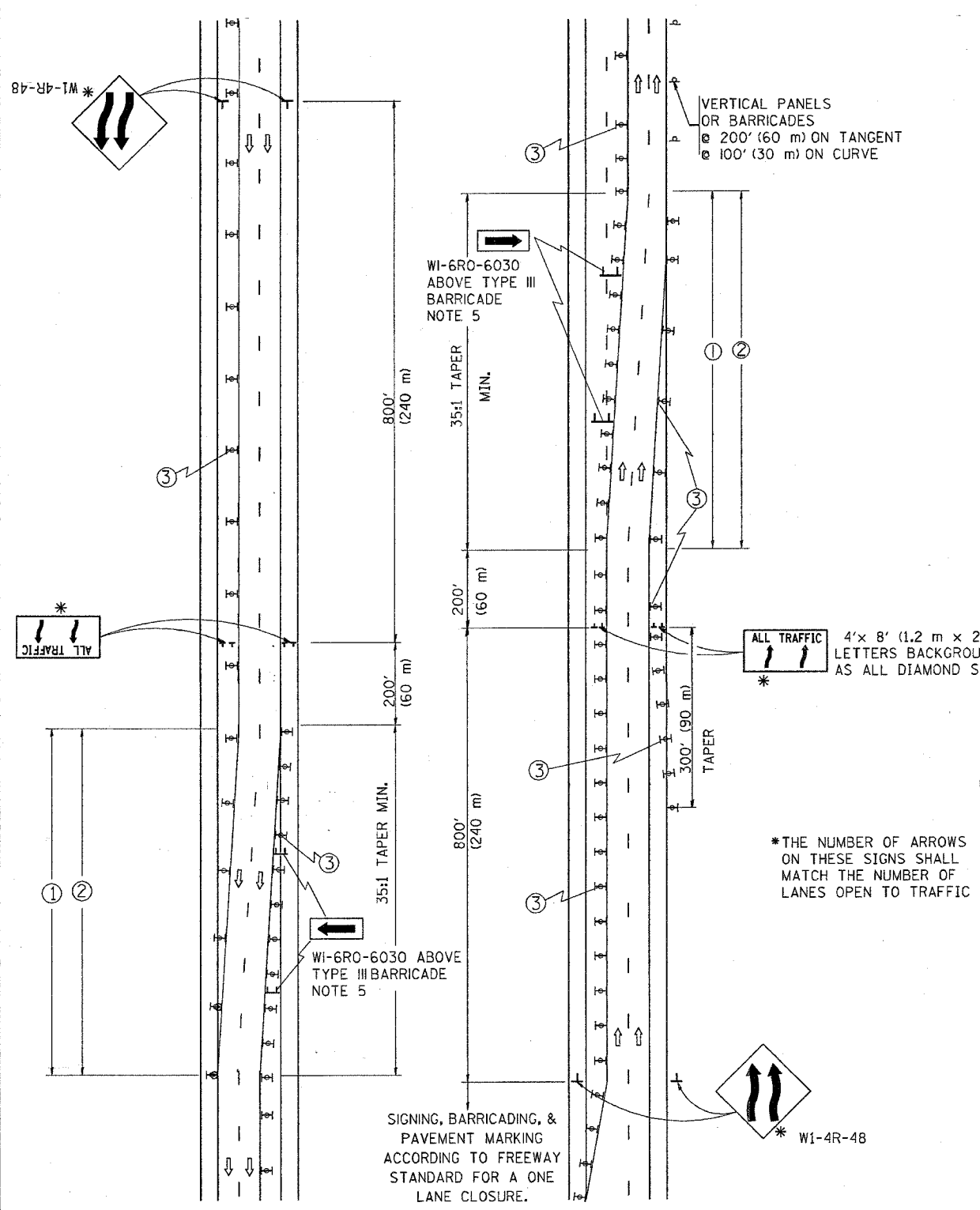
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 USER NAME = bwoodruff

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2006-030 I	Cook	78	76
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

### SINGLE LANE WEAVE



### MULTI-LANE WEAVE



#### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

#### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE**

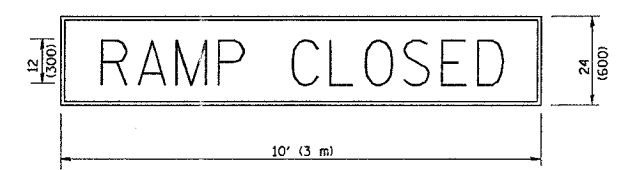
SCALE: NONE  
 DRAWN BY R.H.  
 CHECKED BY  
 TC-9

PLOT DATE = 3/6/2007  
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 USER NAME = bboard



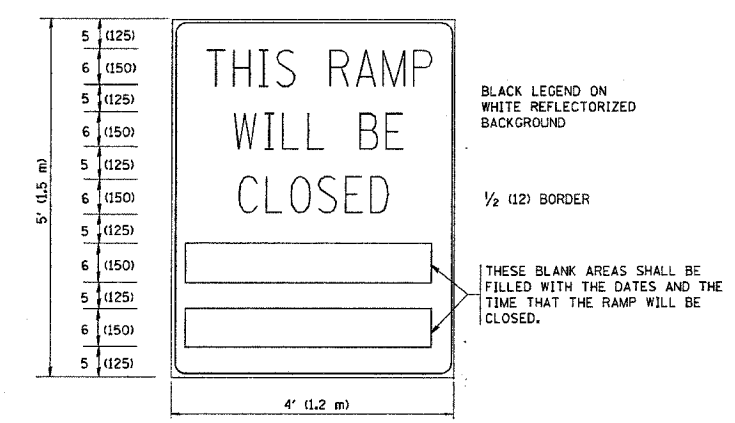
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
250	2006-030 I	Cook	78	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



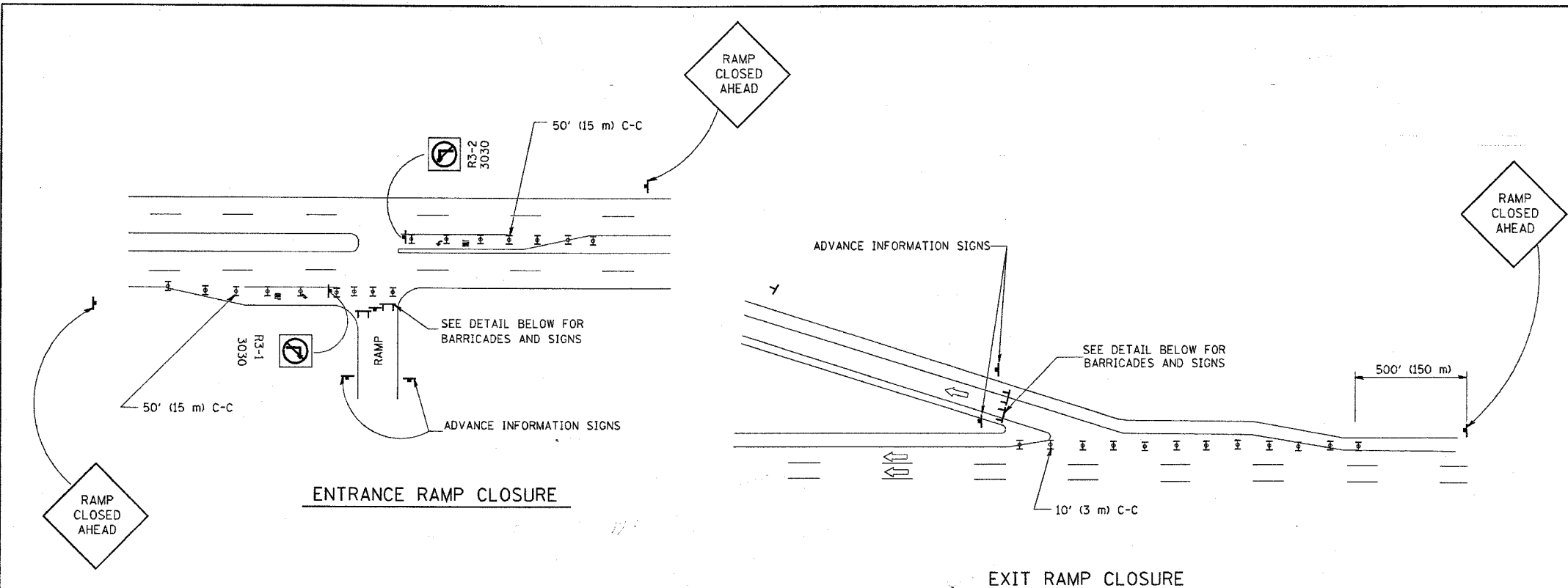
BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
1/2 (12) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

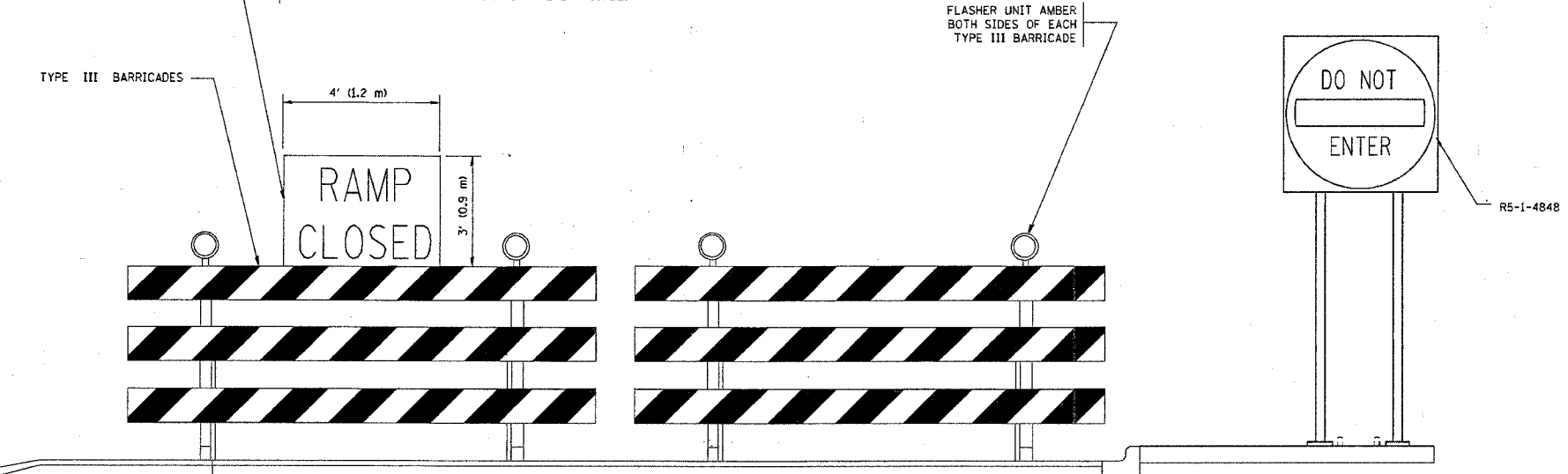
GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.

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



THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.



DETAIL FOR REQUIRED BARRICADES & SIGNS

- SYMBOLS**
- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ▬ TYPE III BARRICADE WITH FLASHING LIGHT

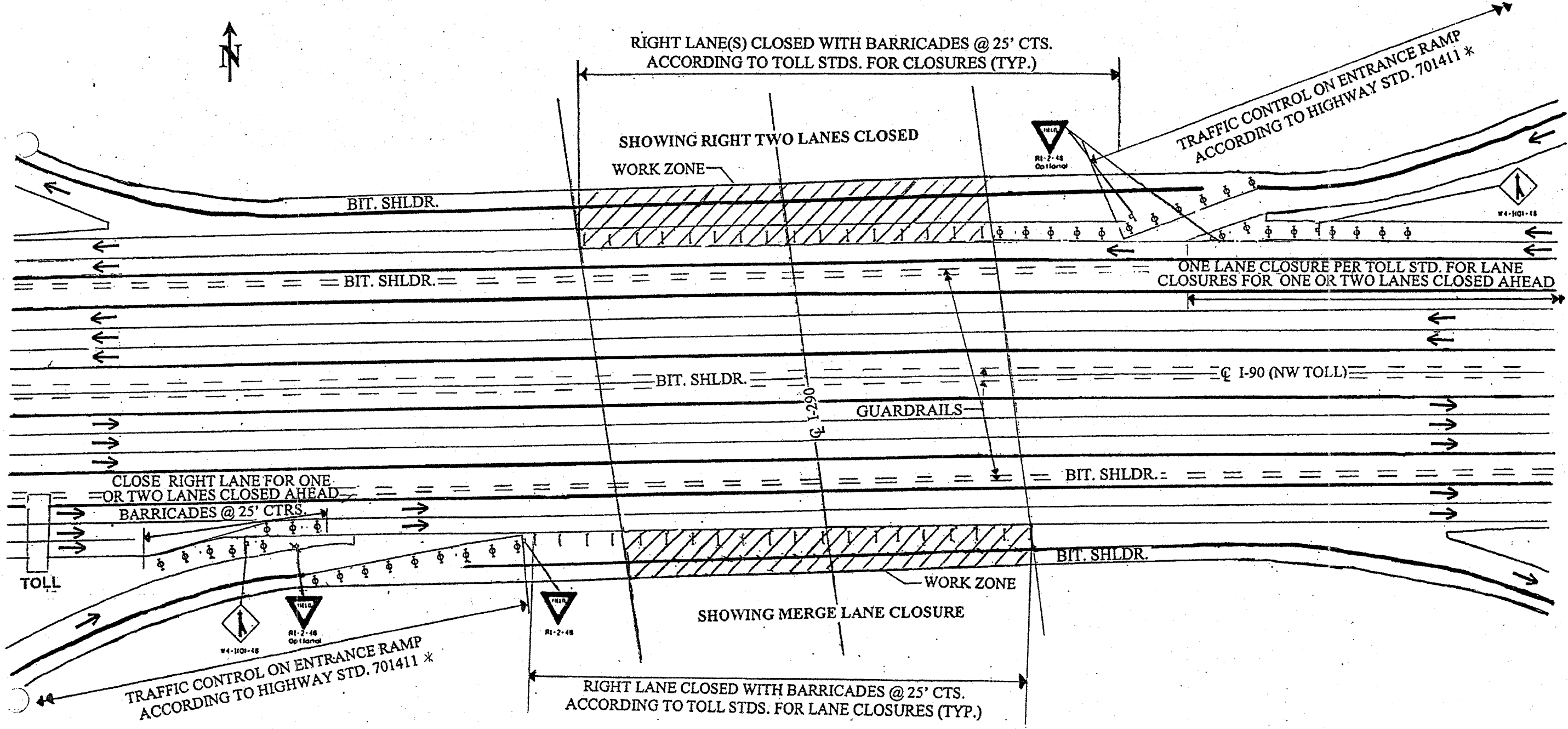
REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
JAF	2/06
SPB	1/07
Revised device to meet NCHRP 350	4/03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS**

SCALE: NONE  
DRAWN BY  
CHECKED BY  
TC-8

PLOT DATE = 3/6/2007  
FILE NAME = K:\projects\10808\10808.dgn  
USER NAME = S:\0808\7\IN  
USER TITLE = Designer

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2006-030 I	COOK	78	78



NOTES:  
 COVER CONFLICTING PAVEMENT MARKINGS WITH BLACK TYPE III TAPE. THE COST OF THE TAPE IS INCLUDED IN THE TRAFFIC CONTROL ITEMS. COST OF ADDITIONAL TRAFFIC CONTROL ITEMS SHOWN ARE INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (EXPRESSWAYS)".

\* USE 500' MERGE IN LIEU OF 300'  
 ANY MODIFICATIONS TO THE MAINTENANCE OF TRAFFIC LAYOUT MAY BE REQUESTED BY THE RESIDENT ENGINEER OR THE TOLLWAY AUTHORITY IF NECESSARY TO PROVIDE A BETTER FLOW OF TRAFFIC THROUGH THE CLOSURE.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ENTRANCE & EXIT RAMP TRAFFIC CONTROL:  
 (SN 016-0977, LOCATION 1)  
 I-90