

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120BR	COOK	29	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 290: I-290/L 53
SECTION: 2004-120BR

* OVER I-90 (TOLL), IL. RTE 58 (GOLF RD) AND WOODFIELD DR
BRIDGE REPAIR-DECK PATCHING

**COOK COUNTY
C-91-079-05**

D-91-079-05



LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE
VILLAGES OF SCHAUMBURG AND
ROLLING MEADOWS



* IMPROVEMENT LOCATIONS

- 1) LOCATION 1
OVER I-90 (TOLLWAY) (SN 016-0977)
- 2) LOCATION 2
OVER IL-58 (GOLF RD) (SN 016-0980)
- 3) LOCATION 3
I-290 (SB) OVER WOODFIELD DR (SN 016-0978)

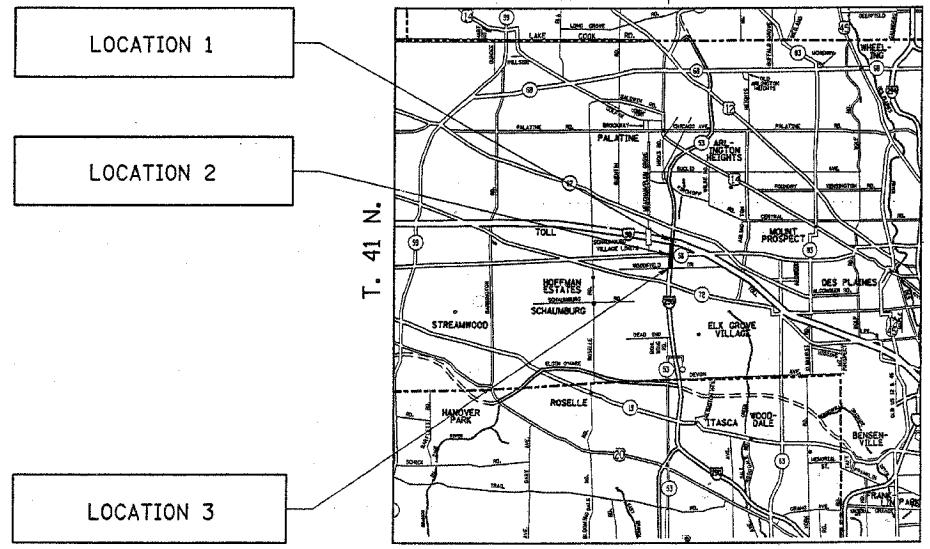
TRAFFIC DATA

I-290 ADT (2002) = 184,300
POSTED SPEED LIMIT = 55 MPH

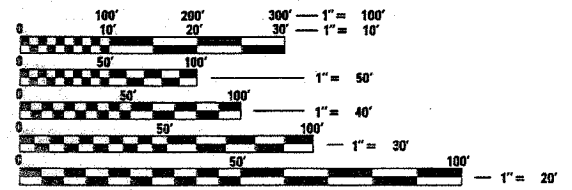
I-90 ADT (2002) = 144,600
POSTED SPEED LIMIT = 55 MPH

IL 58 (GOLF RD) ADT (2004) = 56,500
POSTED SPEED LIMIT = 40 MPH

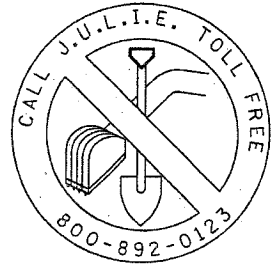
WOODFIELD DR ADT (2003) = 5,009
POSTED SPEED LIMIT = 35 MPH



ELK GROVE TOWNSHIP



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.



CONTRACT NO. 62889

DISTRICT ONE DESIGN PLAN PREPARATION ENGINEER:
KEN ENG/ROBERT BORO (847) 705-4178

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 4, 20 05

Dina O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 12, 20 05
Mike Nune
ENGINEER OF DESIGN AND ENVIRONMENT

August 12, 20 05
Victor Mader
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120 BR	COOK	27	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62889

INDEX OF SHEETS

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3	GENERAL NOTES
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26	SD 04-11C CONSTRUCTION SIGNS III (E 6)
27-28	SD 04-20 A STANDARD LANE CLOSURE DETAILS (E 10 & 10A)
29	SD 04-20 B TEMPORARY GORE STRIPPING AND SHOULDER CLOSURE DETAILS (E 11)

LIST OF STATE STANDARDS

<u>STANDARD</u>	<u>DESCRIPTION</u>
701101-01	OFF ROAD OPERATION, MULTILANE, LESS THAN 15' AWAY, FOR SPEED >= 45 MPH
701301-02	LANE CLOSURE, 2L 2W SHORT TIME OPERATIONS
701400-02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-03	LANE CLOSURE, MULTILANE FOR SPEED > 45 MPH
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >=45 MPH
701411-03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED >= 45 MPH
701446	TWO LANE CLOSURE, EXPRESSWAY
701601-04	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-02	URBAN LANE CLOSURE, MULTILANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-04	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701801-03	SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAI 290/IL 53 INDEX OF SHEETS STATE STANDARDS
NAME	DATE	
		SCALE: VERT. HORIZ. DATE 8/12/2005
DRAWN BY SHB		CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120 BR	COOK	29	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

BEFORE STARTING ANY EXCAVAION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELCTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION PRIOR TO START OF WORK IS REQUIRED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 FOR EXPRESSWAYS, (847) 705-4470 FOR ARTERIALS AND (630) 241-6800 EXT. 3822 FOR ILLINOIS STATE TOLL HIGHWAY AUTHORITY (ISTHA) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.

THE CONTRACTOR SHALL BE AWARE THAT SOME LOCATIONS HAVE UTILITY CONDUITS. ANY DAMAGE TO THE CONDUITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO FIT AROUND THE CONDUITS. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTURALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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.

THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO RIDE ABOVE THE EXISTING LIGHTING FIXTURES IN ORDER TO MAINTAIN THE EXISTING LEVEL OF LIGHTING OF THE ROADWAY UNDERNEATH. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

THE "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

PLOT DATE = 8/12/2005
 PLOT SCALE = 4x5.5" / IN.
 REFERENCE = #REF*

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		GENERAL NOTES

SCALE: VERT. DATE HORIZ. DRAWN BY CHECKED BY

CONTRACT NO. 62889

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		LOC 1	LOC 2	LOC 3			
				SN 016-0977 SFTY-2A	SN 016-0980 SFTY-2A	SN 016-0978 SFTY-2A			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	0.8	0.6	0.6			
67100100	MOBILIZATION	L SUM	1	0.4	0.3	0.3			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		0.5	0.5			
* 78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	300	100	100	100			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3	1	1	1			
X0322066	PROTECTIVE SHIELD (PERMANENT)	SQ YD	1149	1149					
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	96		48	48			
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	5	1.2	3.2	0.6			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.4	0.3	0.3			
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	12	4	4	4			
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	2	0.8	0.6	0.6			
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	67	36	31				
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	166	21	118	27			
Z0047300	PROTECTIVE SHIELD	SQ YD	6180	3382	2235	563			
* SPECIALTY ITEMS									

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE															
CODE NO	ITEM	UNIT																	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
I-290

PLOT DATE: 8/13/2005

8/13/2005 08:13/2005

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

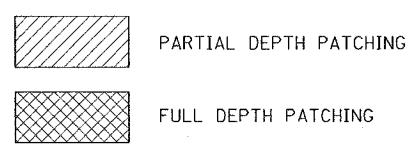
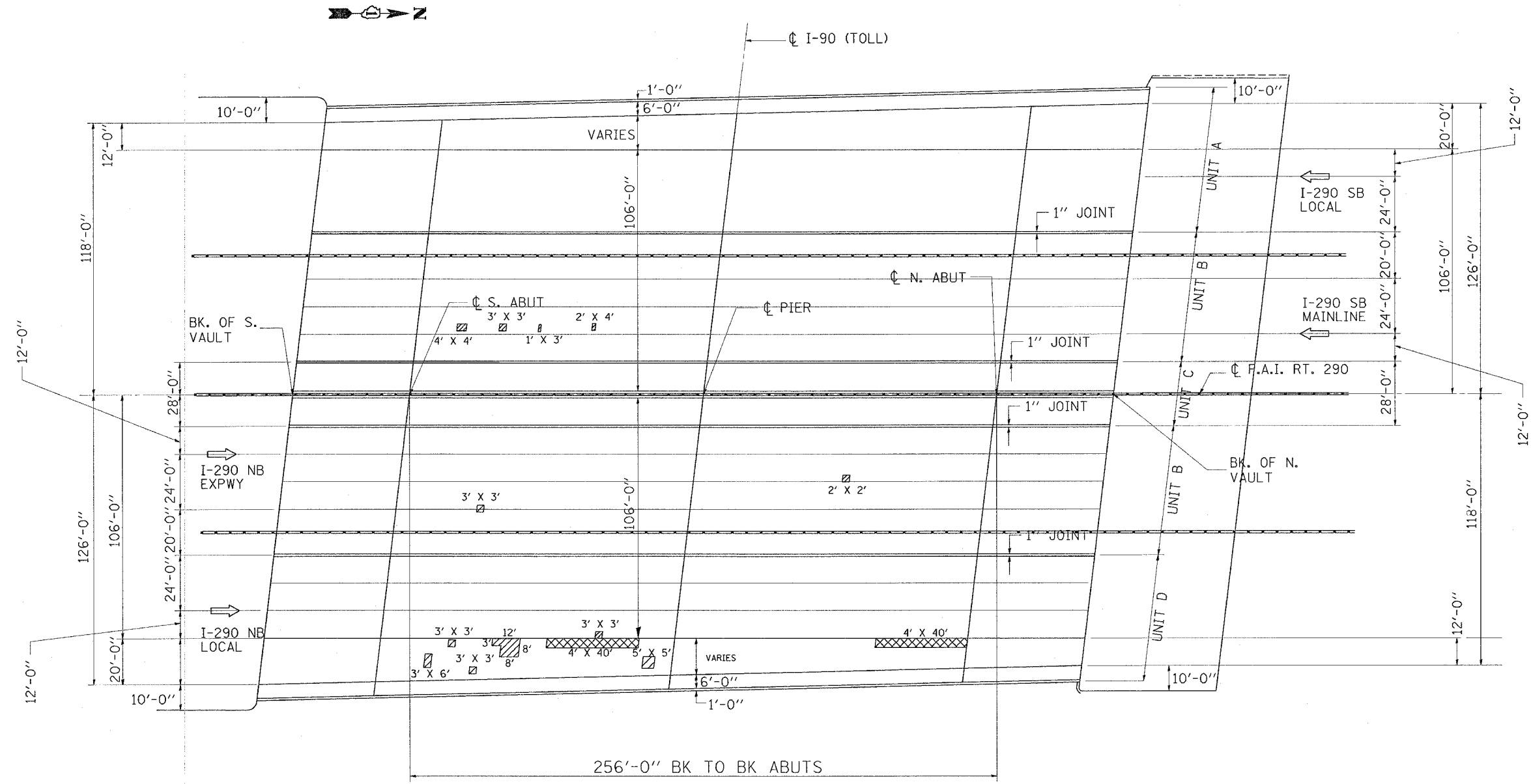
SHEET 1 OF 2, LOCATION 1

BILL OF MATERIAL

DECK SLAB REPAIR (PARTIAL)	SY	21
DECK SLAB REPAIR (FULL-DEPTH, TY II)	SY	36
PROTECTIVE SHIELD	SY	3382
PROTECTIVE SHIELD (PERMANENT)	SY	1149

NOTE: ACTUAL LOCATIONS OF PATCHES ARE TO BE SHOWN ON PLANS BY THE ENGINEER FOR AS-BUILTS

DATE OF SURVEY: DEC. 2004



REVISIONS	
NAME	DATE

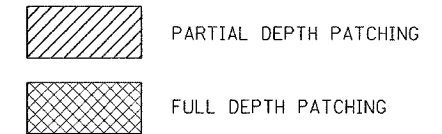
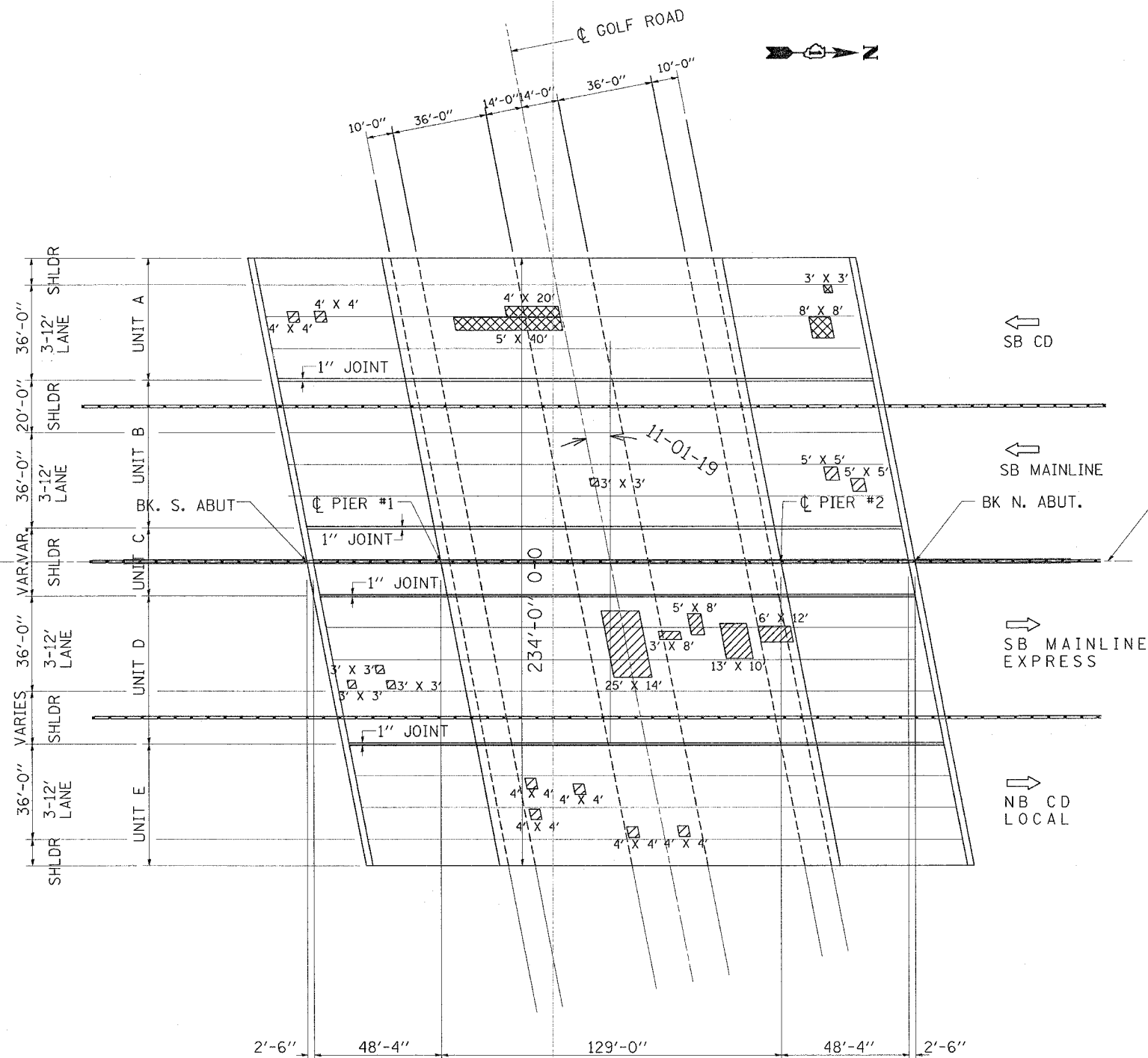
ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 1
 INTERSTATE ROUTE 290
 OVER INTERSTATE ROUTE 90
 PATCHING LOCATIONS
 S.N. 016-0977

SCALE: VERT. / HORIZ. / DATE 2/01/05

DRAWN BY SHB
 CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 1 OF 2, LOCATION 2



BILL OF MATERIAL

DECK SLAB REPAIR (PARTIAL)	SY	118
DECK SLAB REPAIR (FD, TY II)	SY	31
PROTECTIVE SHIELD	SY	2235

NOTE: ACTUAL LOCATIONS OF PATCHES ARE TO BE SHOWN ON PLANS BY THE ENGINEER FOR AS-BUILTS

DATE OF SURVEY - DEC. 2004

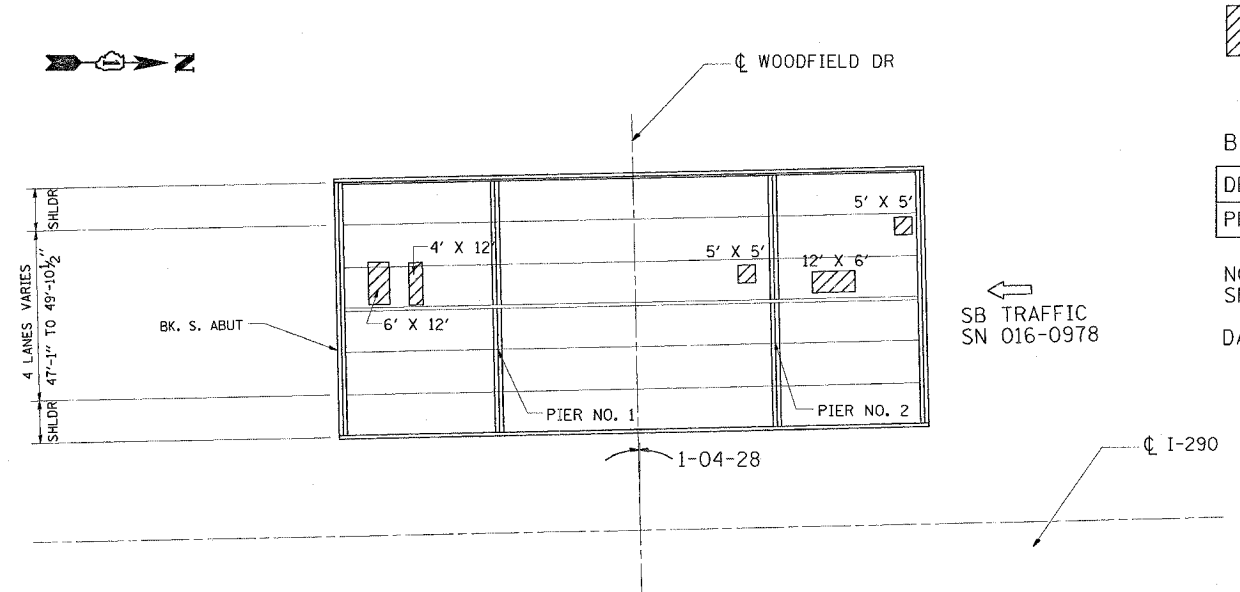
REVISIONS	
NAME	DATE

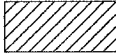
ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 2
 OVER IL ROUTE 58 (GOLF ROAD)
 PATCHING LOCATIONS
 S.N. 016-0980

SCALE: VERT. DATE 2/01/05
 HORIZ.
 DRAWN BY SHB
 CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 1 OF 2, LOCATION 3



 DECK SLAB REPAIR (PARTIAL DEPTH)

BILL OF MATERIAL

DECK SLAB REPAIR (PARTIAL)	SY	27
PROTECTIVE SHIELD	SY	563

NOTE: ACTUAL LOCATIONS OF PATCHES ARE TO BE SHOWN ON PLANS BY THE ENGINEER FOR AS-BUILTS
DATE OF SURVEY - DEC. 2004

PLOT DATE = 8/13/2005
FILE NAME = c:\p\projects\107985.dwg
PLOT SCALE = 50.0000 / IN.
REFERENCE = #REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 3
INTERSTATE ROUTE 290
OVER WOODFIELD ROAD
PATCHING LOCATIONS
S.N. 016-0978 (SB)

SCALE: VERT. DRAWN BY SHB
 HORIZ. CHECKED BY
 DATE 2/01/05

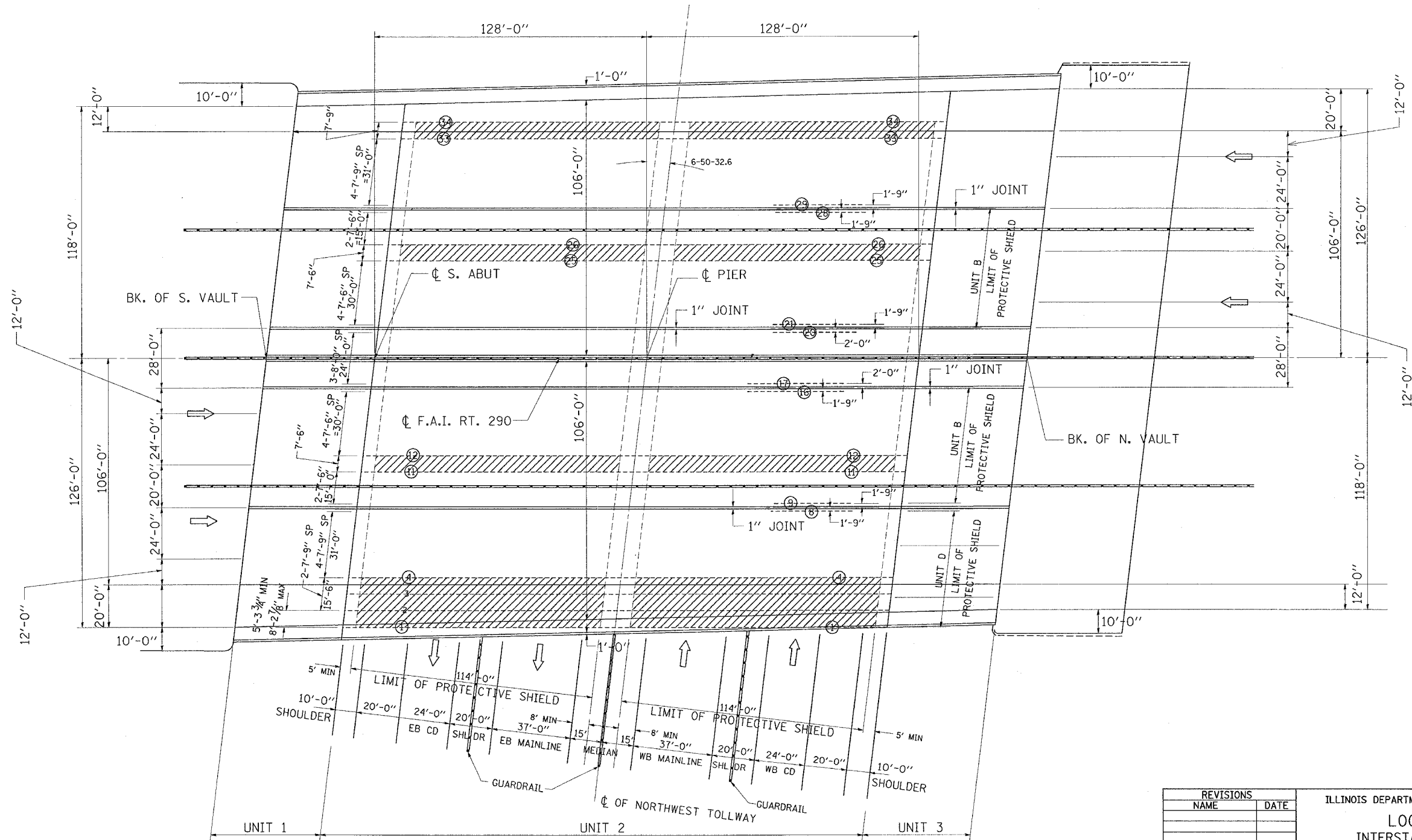
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290	2004-120-BR	COOK	29	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 2 OF 2, LOCATION 1

 LIMIT OF PERMANENT PROTECTIVE SHIELD

PROVIDE PERMANENT PROTECTIVE SHIELDING BETWEEN BEAM NO. 1-4, 11-12, 25-26 AND 33-34 IN STEEL GIRDER SPANS ONLY

FOR PERMANENT PROTECTIVE SHIELD DETAIL, SEE SHEET 11 OF 21



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 1
 INTERSTATE ROUTE 290
 OVER INTERSTATE ROUTE 90
 PROTECTIVE SHIELD DETAILS
 S.N. 016-0977

SCALE: VERT. _____
 HORIZ. _____
 DATE 2/01/05

DRAWN BY SHB
 CHECKED BY _____

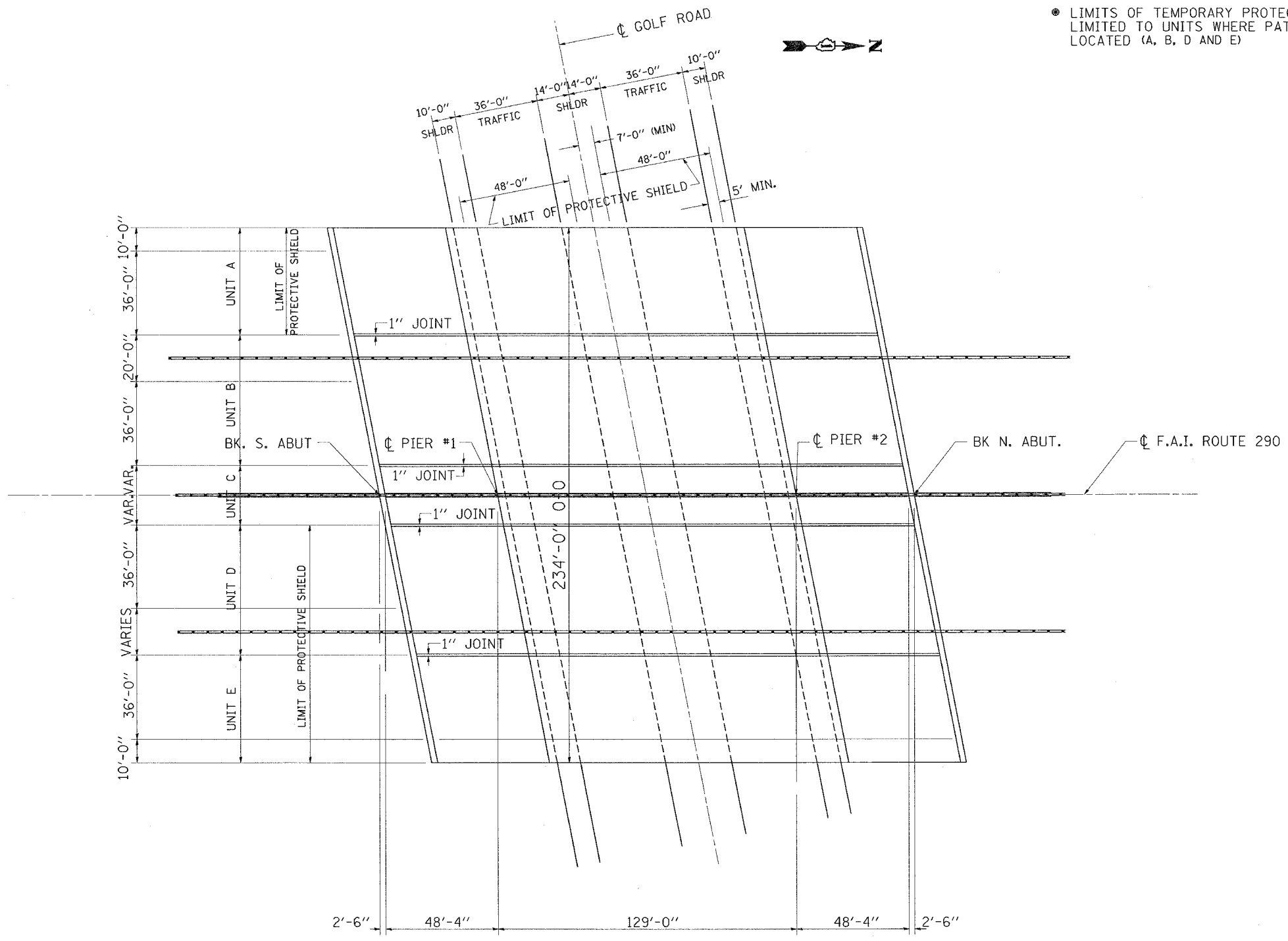
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 REFERENCE = SHEET 8

14:57:15 08/13/2005

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 2 OF 2, LOCATION 2

● LIMITS OF TEMPORARY PROTECTIVE SHIELDS LIMITED TO UNITS WHERE PATCHES ARE LOCATED (A, B, D AND E)



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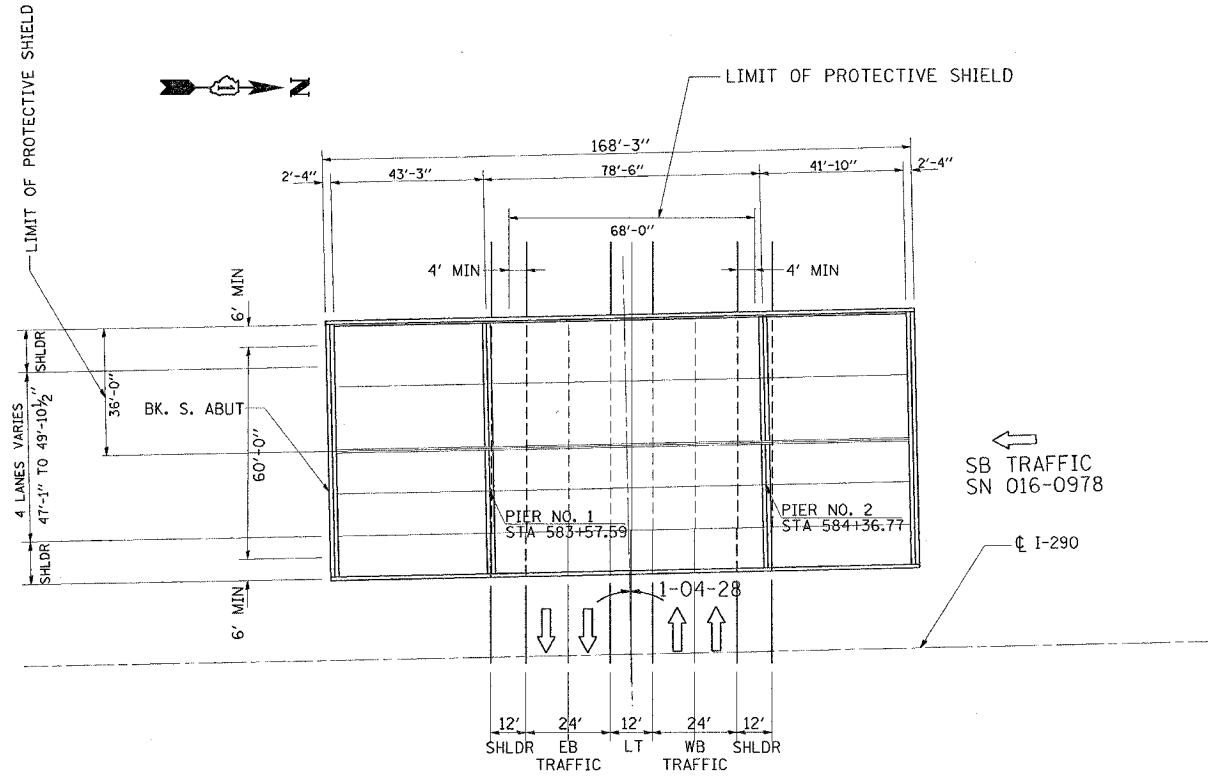
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 2
 INTERSTATE ROUTE 290
 OVER IL ROUTE 58 (GOLF ROAD)
 PROTECTIVE SHIELD DETAILS
 S.N. 016-0980

SCALE: VERT. DRAWN BY SHB
 HORIZ. CHECKED BY
 DATE 2/01/05

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET 2 OF 2, LOCATION 3



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REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION 3

INTERSTATE ROUTE 290
 OVER WOODFIELD ROAD
 PROTECTIVE SHIELD DETAILS
 S.N. 016-0978 (SB)

SCALE: VERT. _____

HORIZ. _____

DATE 2/01/05

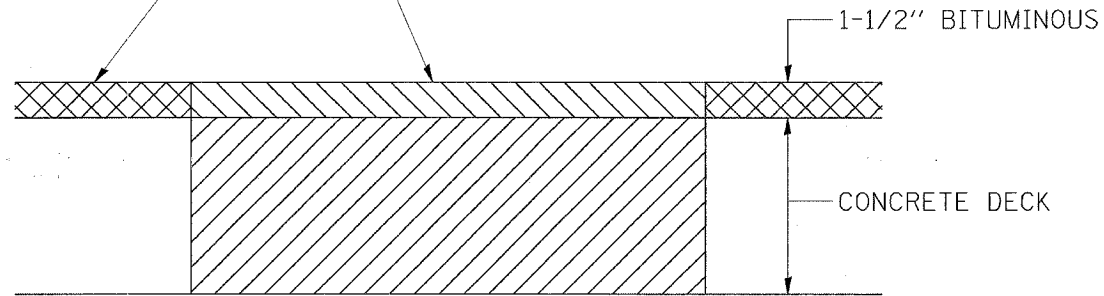
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CHECKED BY _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BB	COOK	29	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

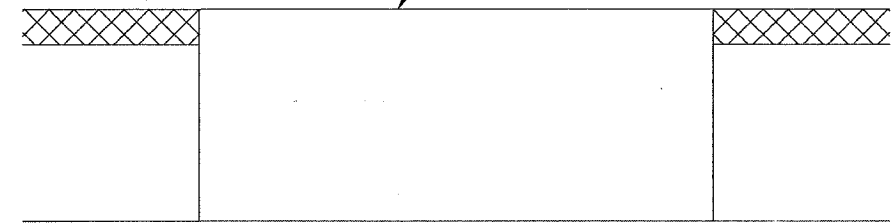
"TOP OF ORIGINAL DECK"
AS REFERRED TO IN SPECIAL
PROVISION "DECK SLAB REPAIR"

COST OF BITUMINOUS REMOVAL INCLUDED
IN THE COST OF DECK SLAB REPAIR



REMOVAL

CONCRETE PATCHES TO BE POURED TO
THE TOP OF THE ADJACENT BITUMINOUS



REPLACEMENT

DECK SLAB REPAIR

NOTE: IF NO DECK PATCH IS DEEMED NECESSARY AFTER
BITUMINOUS IS REMOVED, REPLACE BITUMINOUS WITH
"BITUMINOUS CONCRETE SURFACE COURSE, MIX D, N 70"

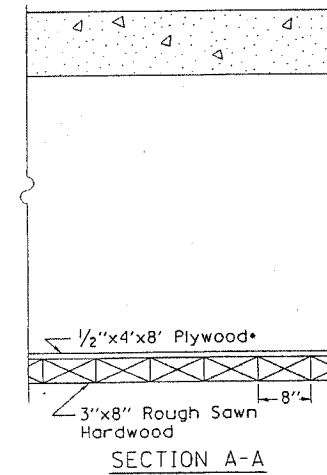
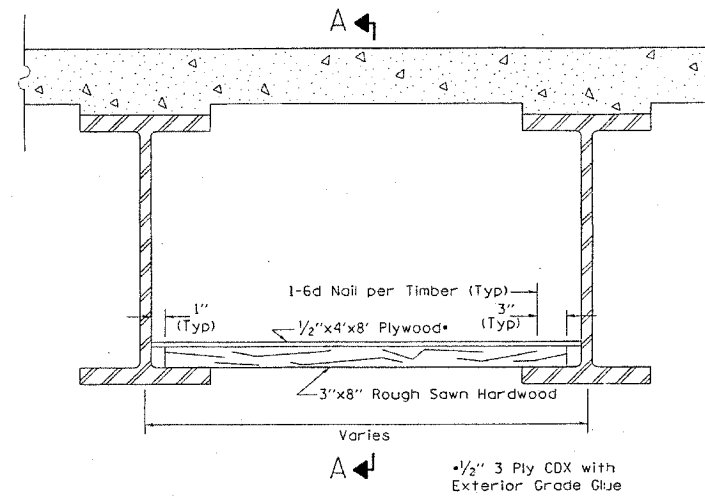
BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE	AC TYPE	% AIR VOIDS	MAX % RAP
BITUM. CONC. SURF. CRSE, SUPERPAVE, MIX D, N70	PG 64-22	4% @70 GYR	10% RAP

THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS
SURFACE MIXTURES IS 112 LBS/SQ YD/IN

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DECK SLAB REPAIR DETAILS
SCALE:	VERT. DATE	HORIZ.
DRAWN BY	CHECKED BY	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120-BR	COOK	29	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 2/14/2005
 FILE NAME = #FILEL6
 PLOT SCALE = 0.500000 / IN.
 REFERENCE = #REF6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PERMANENT PROTECTIVE SHIELD
DETAILS

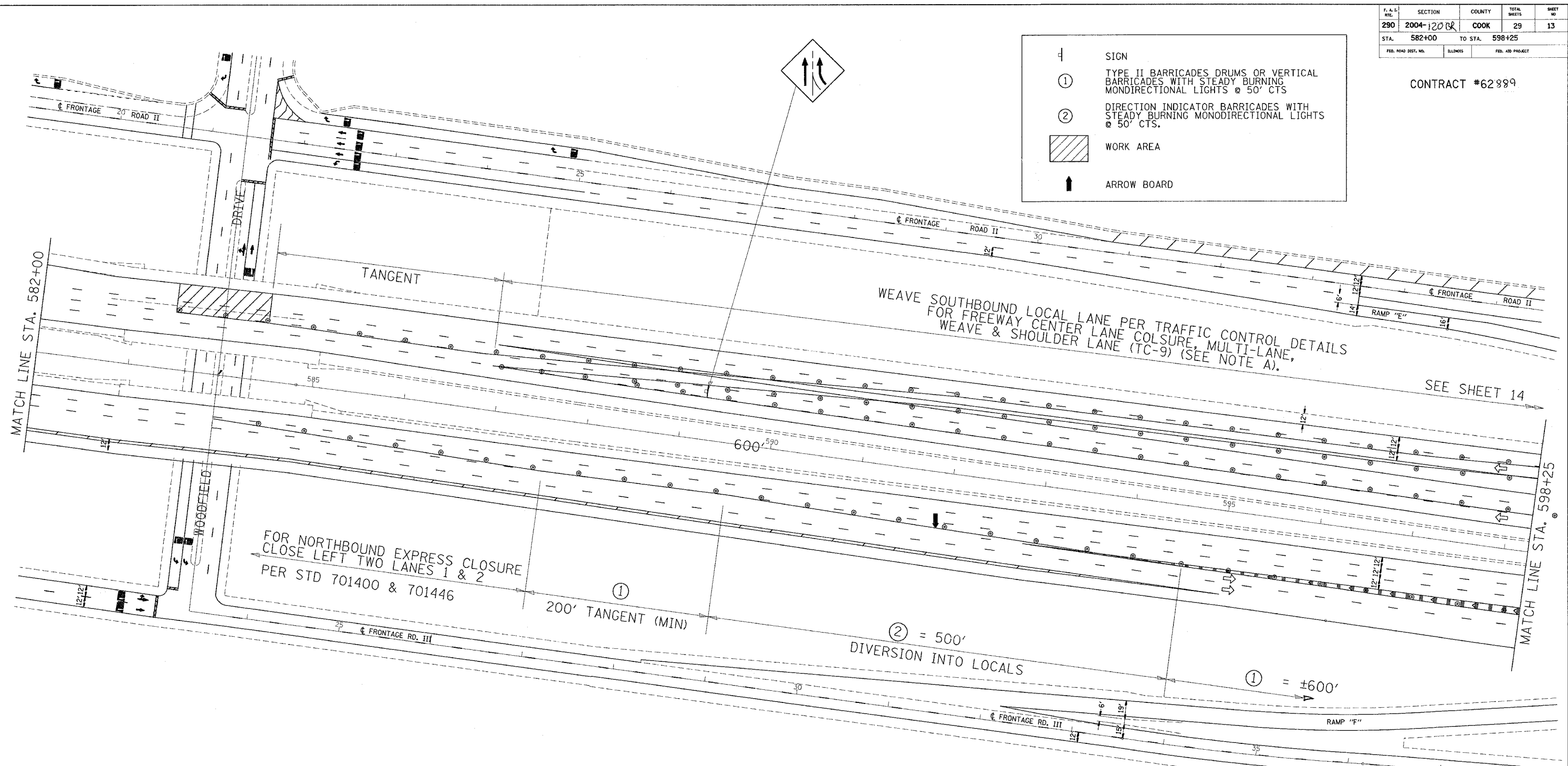
SCALE: VERT.
HORIZ.
DATE

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F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120R	COOK	29	13
STA. 582+00	TO STA. 598+25			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #62899

SIGN
 ① TYPE II BARRICADES DRUMS OR VERTICAL BARRICADES WITH STEADY BURNING MONODIRECTIONAL LIGHTS @ 50' CTS
 ② DIRECTION INDICATOR BARRICADES WITH STEADY BURNING MONODIRECTIONAL LIGHTS @ 50' CTS.
 WORK AREA
 ARROW BOARD



- PATCHING SEQUENCE**
- SEQ 1 = SB LOCAL PATCHING @ WOODFIELD & SB EXPRESS PATCHING @ GOLF & I-90
 - SEQ 2 = SB LOCAL PATCHING @ GOLF
 - SEQ 3 = NB EXPRESS PATCHING @ GOLF & I-90
 - SEQ 4 = NB LOCALS PATCHING @ GOLF & I-90

NOTES

WOODFIELD & SB EXPRESS PATCHES SHALL BE DONE IN THE SAME WEEKENDS

CLOSURE OF SB EXPRESS IS SIMILAR TO CLOSURE OF NB EXPRESS FOR TEMPORARY PAVEMENT MARKING USE TYPE III TAPE, COST OF TYPE III TAPE AND ITS REMOVAL IS INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY).

TO SAWCUT & POUR PATCHES @ WOODFIELD CLOSE ALL LANES IN SB EXPRESS AND CLOSE SB LOCALS TO ONE LANE PER HOURS IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION. BY 6 AM SATURDAY, ONE LANE OF SB EXPRESS AND ONE LANE OF SB LOCALS SHALL BE OPENED TO TRAFFIC

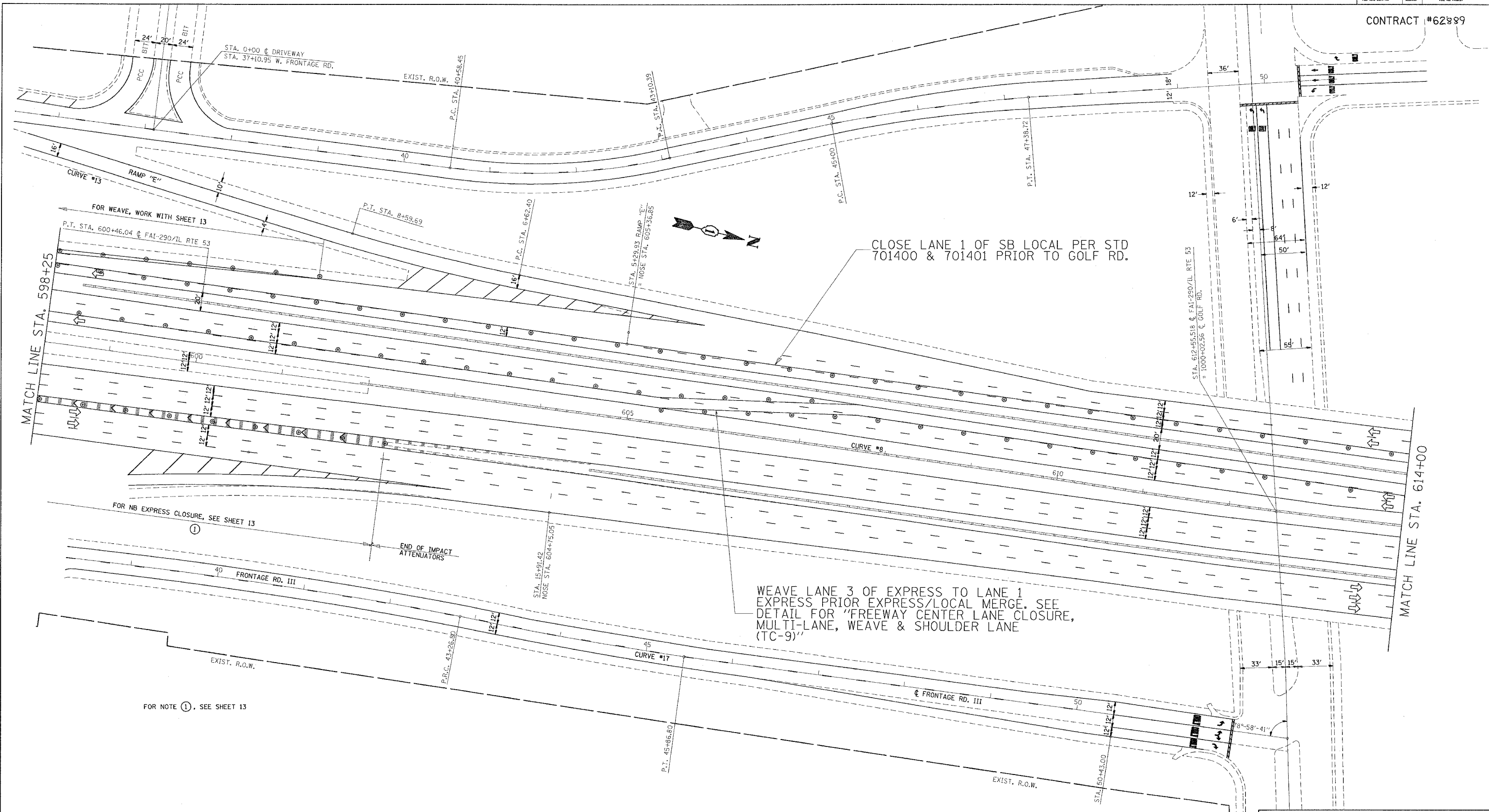
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAI 290/ILL RTE 53
 TRAFFIC CONTROL DETAILS
 SEQUENCE 1 AND 3

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

CONTRACT #62889



CLOSE LANE 1 OF SB LOCAL PER STD 701400 & 701401 PRIOR TO GOLF RD.

WEAVE LANE 3 OF EXPRESS TO LANE 1 EXPRESS PRIOR EXPRESS/LOCAL MERGE. SEE DETAIL FOR "FREEWAY CENTER LANE CLOSURE, MULTI-LANE, WEAVE & SHOULDER LANE (TC-9)"

FOR NOTE ①, SEE SHEET 13

FOR NB EXPRESS CLOSURE, SEE SHEET 13

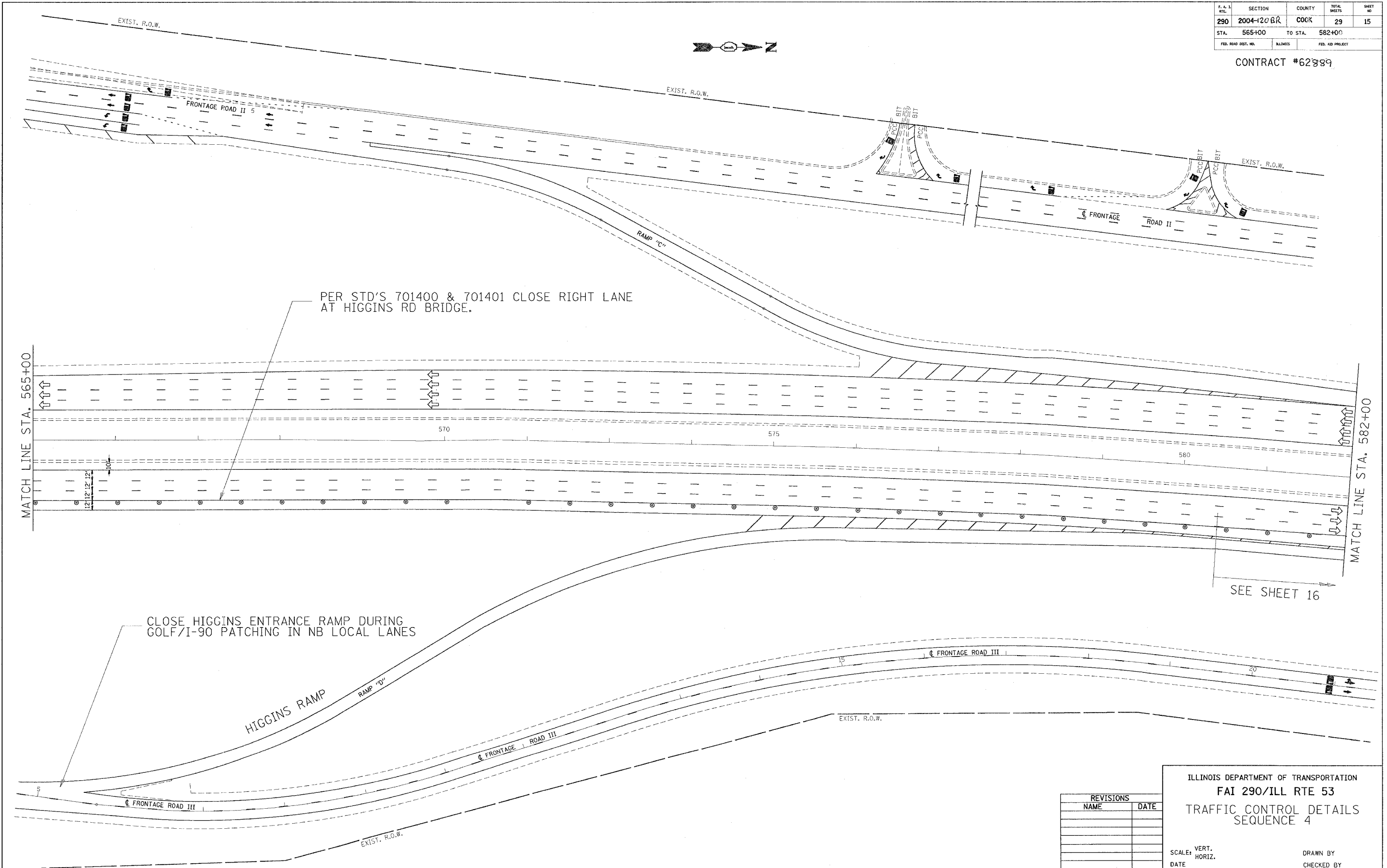
FOR WEAVE, WORK WITH SHEET 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAI 290/ILL RTE 53
 TRAFFIC CONTROL DETAILS
 SEQUENCE 1 AND 3
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____

F. & L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120 BR	COOK	29	15
STA. 565+00	TO STA. 582+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #62889



MATCH LINE STA. 565+00

MATCH LINE STA. 582+00

SEE SHEET 16

REVISIONS	
NAME	DATE

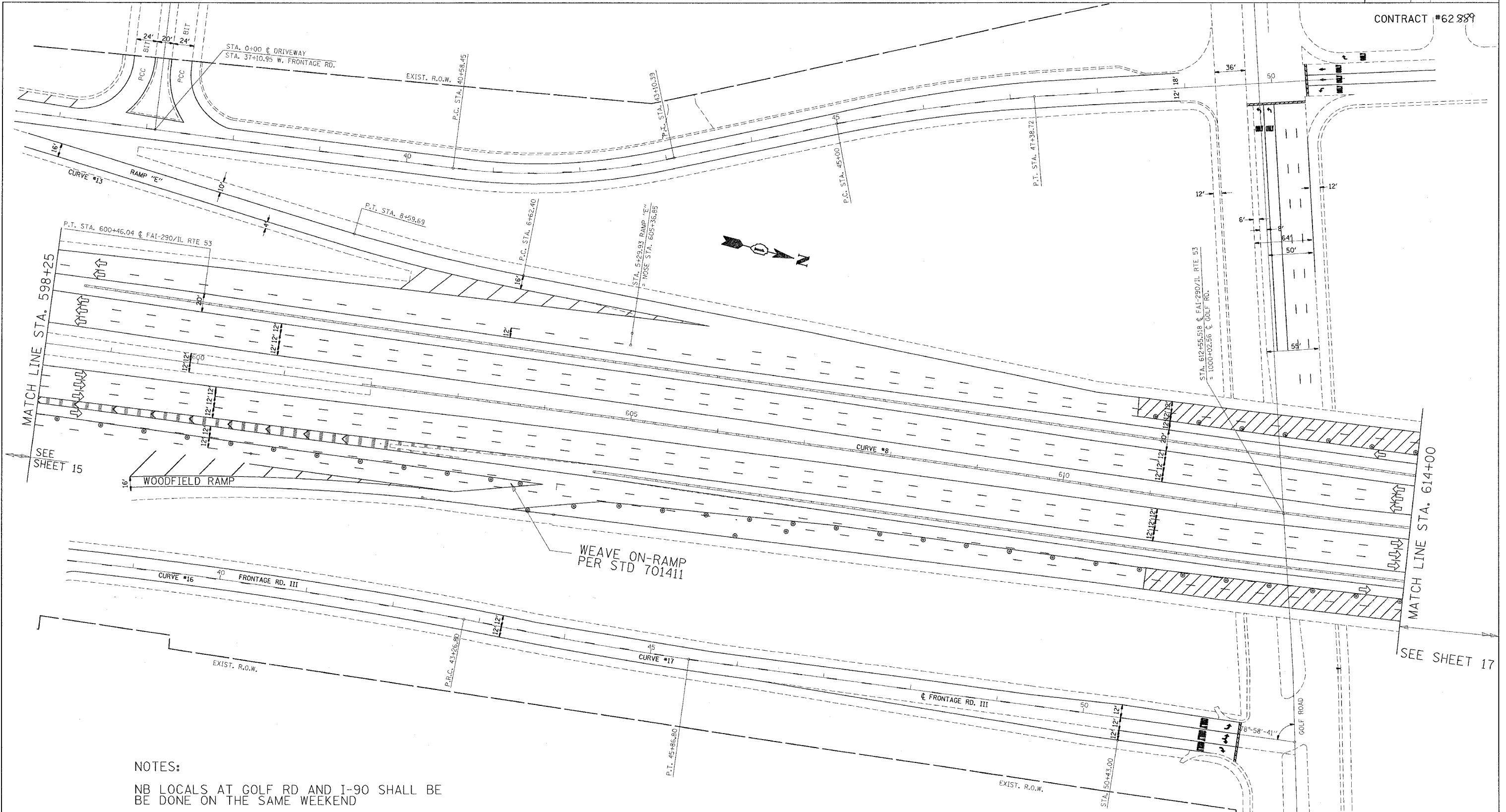
ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI 290/ILL RTE 53
TRAFFIC CONTROL DETAILS
SEQUENCE 4

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

08:17:06 08/15/2005

CONTRACT #62 889



NOTES:

NB LOCALS AT GOLF RD AND I-90 SHALL BE DONE ON THE SAME WEEKEND
 CLOSE WB ALGONQUIN RD TO SB I-290 RAMP DURING PATCHING ON GOLF RD IN SB LOCALS.

REVISIONS	
NAME	DATE

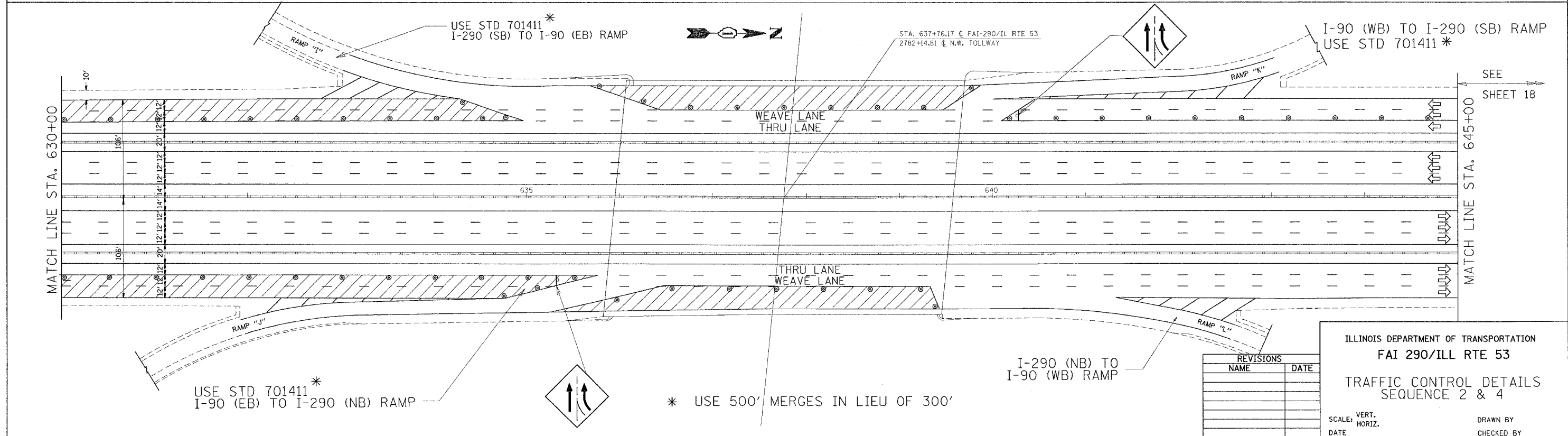
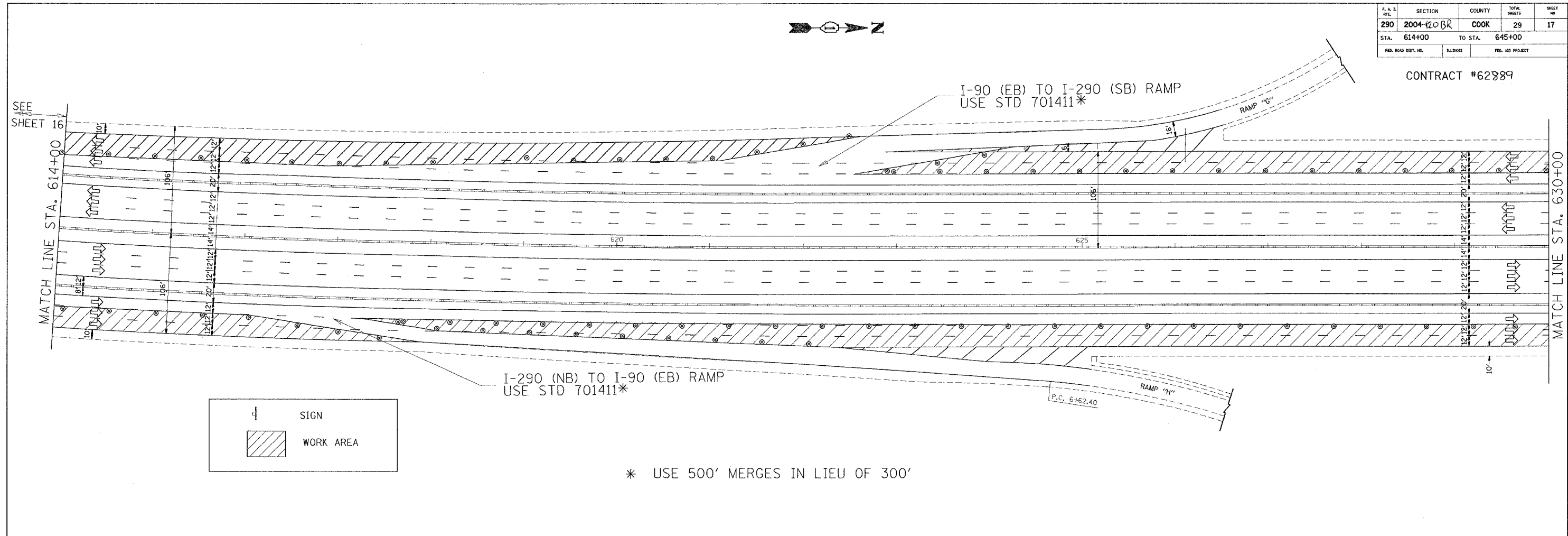
ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI 290/ILL RTE 53
TRAFFIC CONTROL DETAILS
SEQUENCE 2 & 4

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

F. A. I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-120 BR	COOK	29	17
STA. 614+00	TO STA. 645+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #62889



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI 290/ILL RTE 53
TRAFFIC CONTROL DETAILS
SEQUENCE 2 & 4

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

2004/12/15/4005

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2004-1208R	COOK	29	18
STA. 645+00	TO STA. 660+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

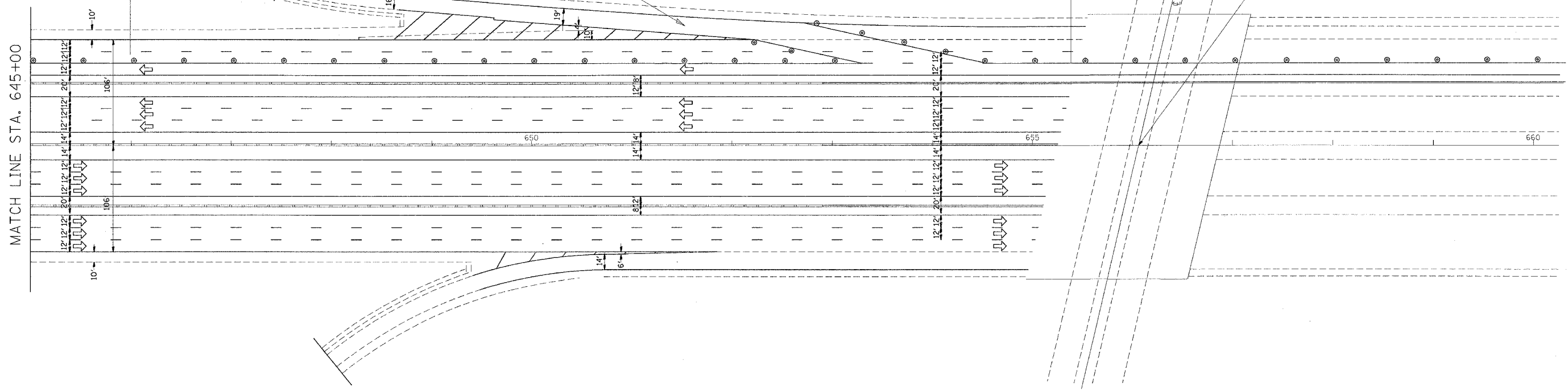
CONTRACT #62389

I-290 SB TO I-90 WB RAMP - USE STD 701411 WITH 500' MERGE IN LIEU OF 300'

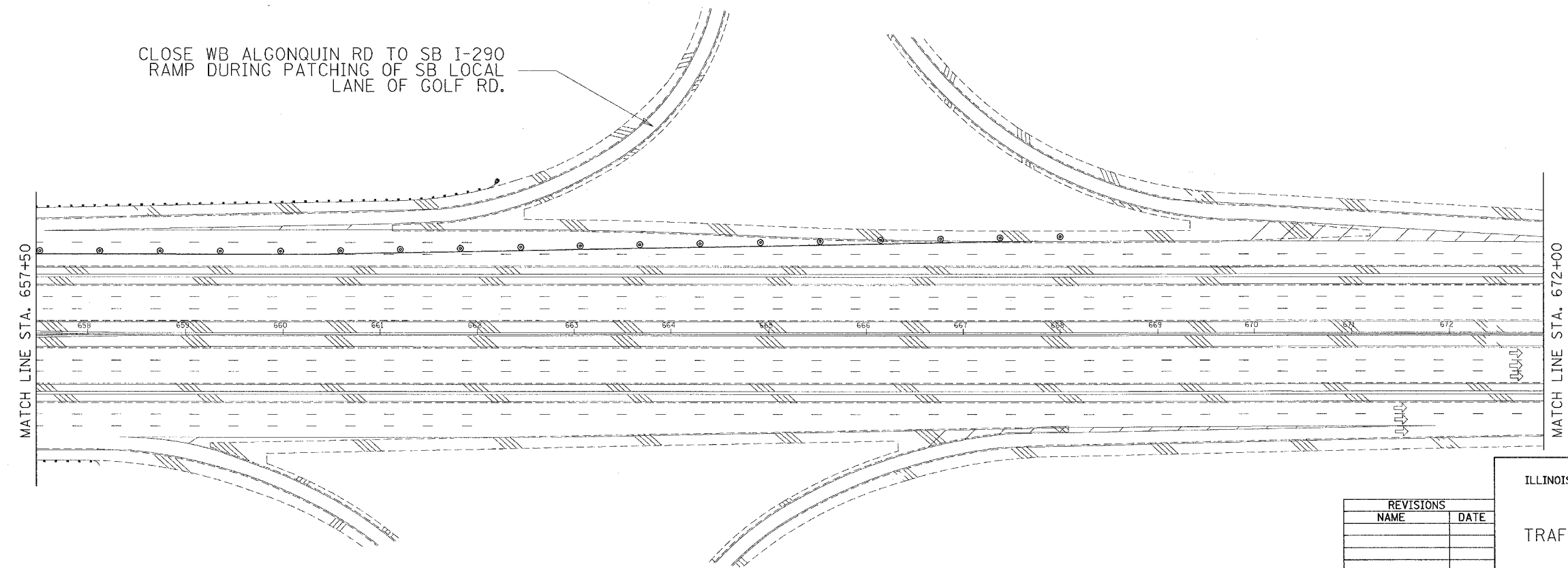
CLOSE RIGHT LANE OF SB LOCALS PER STD 701400 & 701411 DURING PATCHING OF SB LOCAL LANES OF GOLF RD

STA. 656+06.817 @ FAI-290/IL RTE 53 = 39+30.35 @ ALGONQUIN RD.

SEE SHEET 17



CLOSE WB ALGONQUIN RD TO SB I-290 RAMP DURING PATCHING OF SB LOCAL LANE OF GOLF RD.



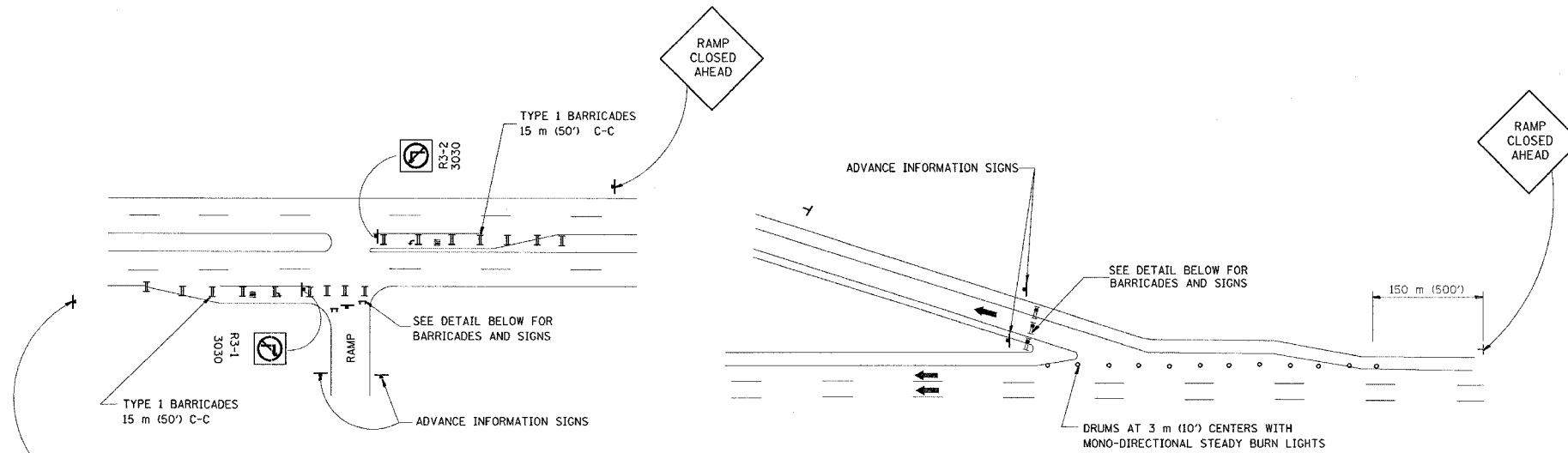
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI 290/ILL RTE 53
TRAFFIC CONTROL DETAILS
SEQUENCE 2

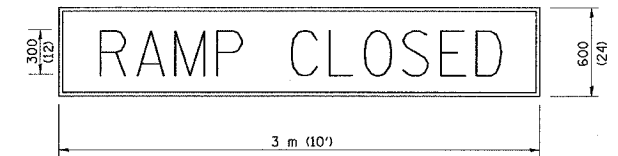
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			29	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 62889



RAMP CLOSURE ADVANCE WARNING SIGN

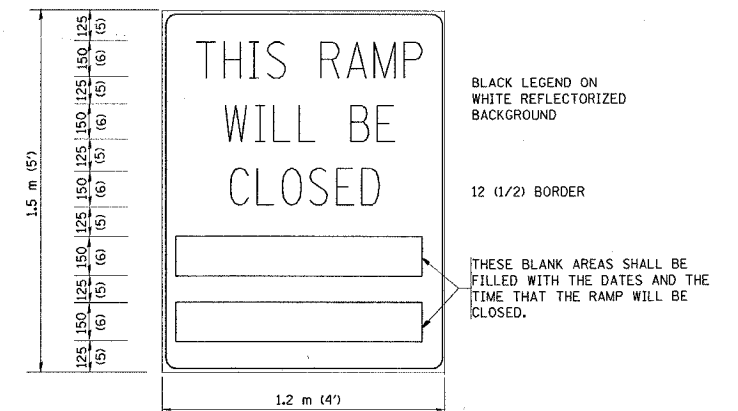


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

25 (1) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



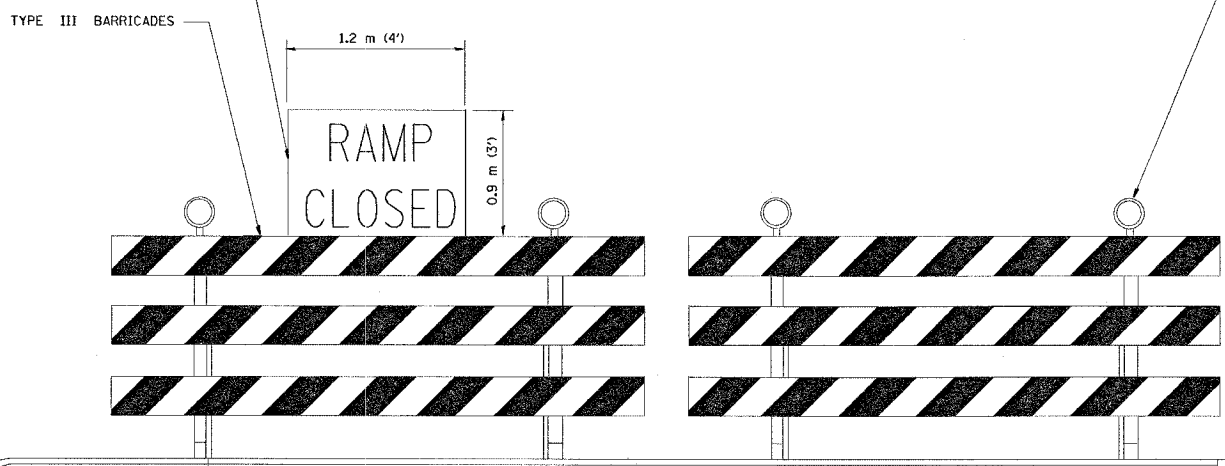
BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

12 (1/2) 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, 4 MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 200 (8) 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

NOTES:

- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 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 MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
Revise devices to meet NCHRP 350	4/03

ILLINOIS DEPARTMENT OF TRANSPORTATION
FREWAY
ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

SCALE: VERT. DATE 8/13/2005

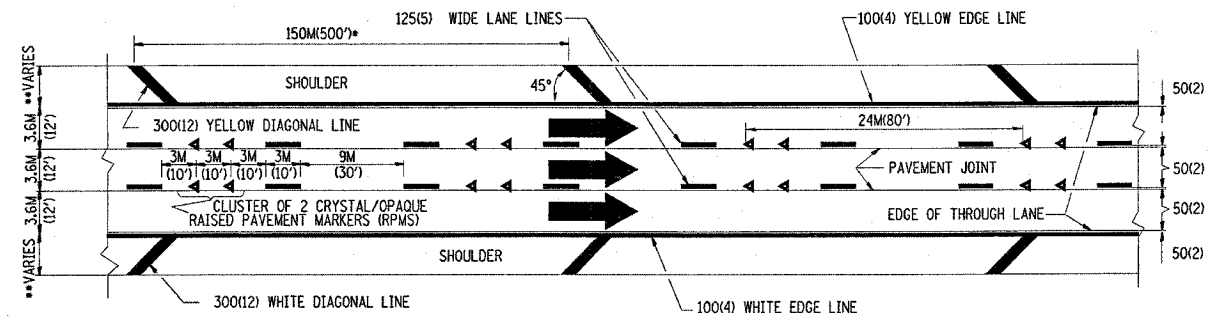
DRAWN BY TC-8

CHECKED BY REVISION DATE: 04/03/03

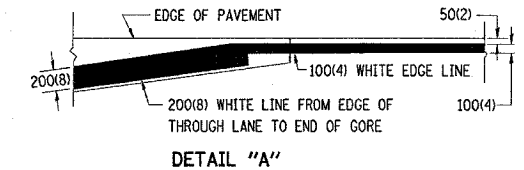
P. & S. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			29	20
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ALTIMETER	FED. AID PROJECT		

CONTRACT 62889

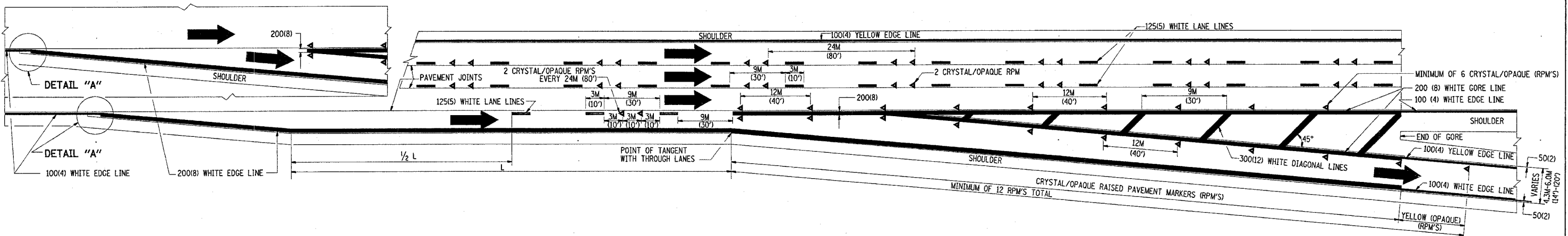
- THE DIAGONAL LINES SHALL BE SPACED AT 12M (40') C-C ACROSS ALL STRUCTURES WHICH ARE 150M (500') OR LESS IN LENGTH
- THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 1.8M (6') OR LESS IN WIDTH



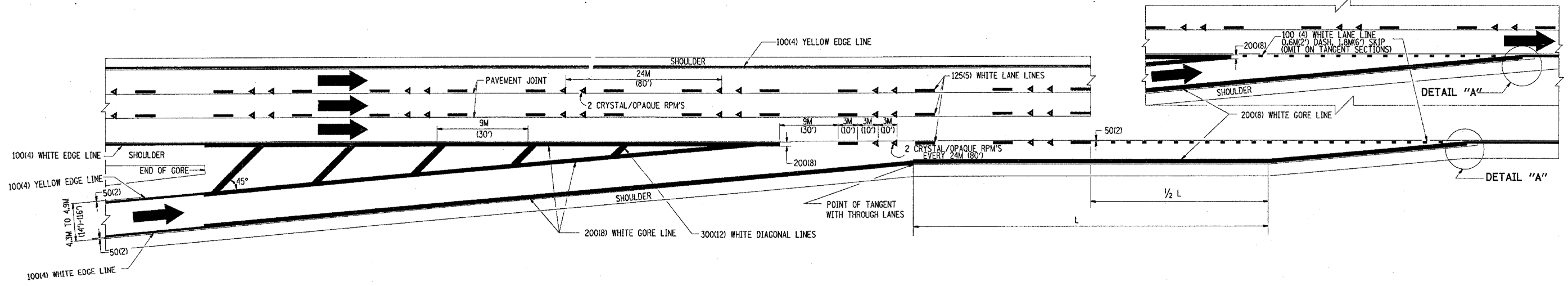
- NOTES:
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES
 3. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED ON PCC PAVEMENT.



TYPICAL EDGE LINES & LANE LINES



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	

ILLINOIS DEPARTMENT OF TRANSPORTATION

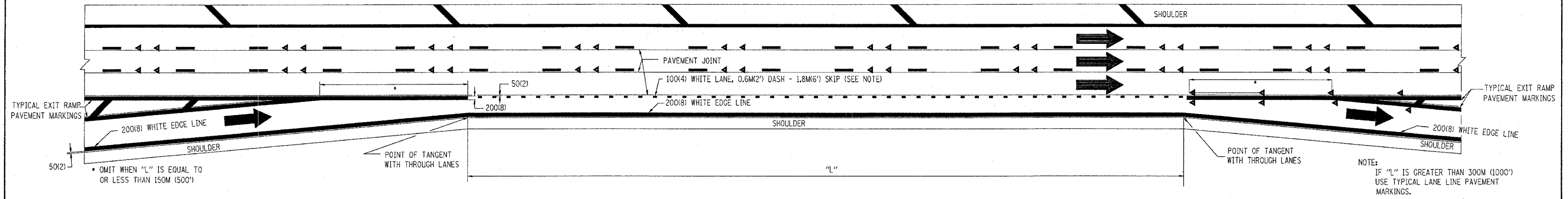
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

SCALE: NONE
DATE: 2/14/2005

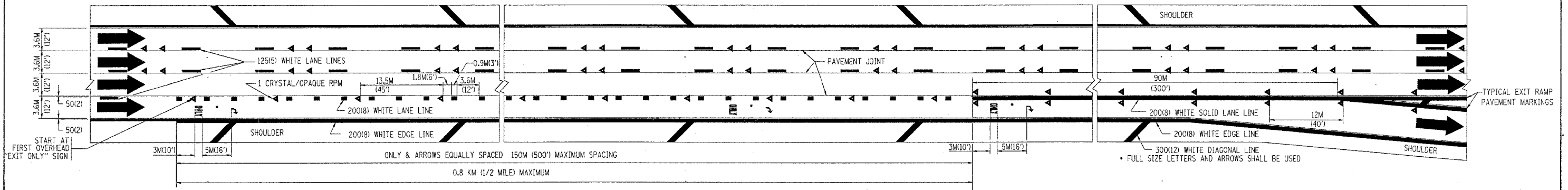
DRAWN BY C.A.D.D.
CHECKED BY
TC12 SHEET 1 OF 2
REVISION DATE: 01/01/96

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			29	21
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

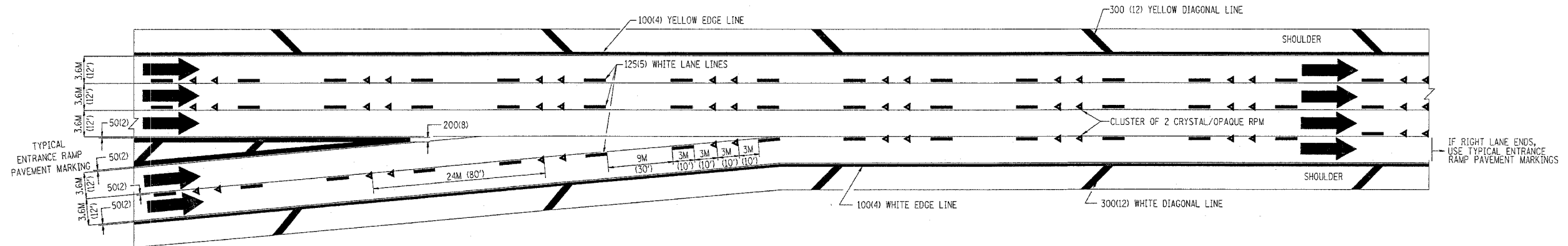
CONTRACT 62889



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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

SCALE: NONE
DATE: 2/14/2005

DRAWN BY C.A.D.D.

CHECKED BY

TC12 SHEET 2 OF 2

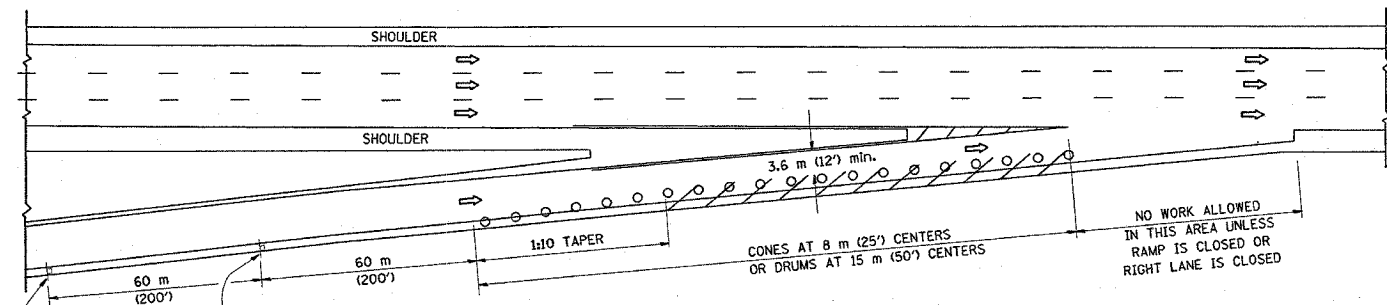
REVISION DATE: 01/01/96

Create Date: 03-23-95

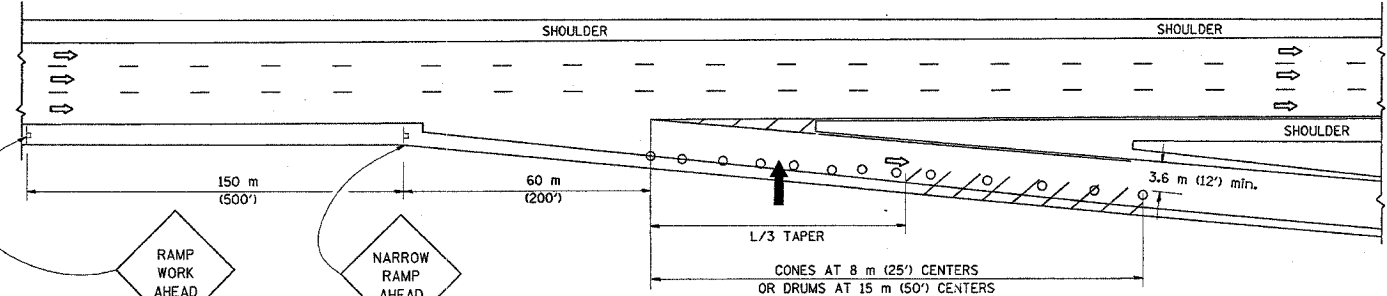
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

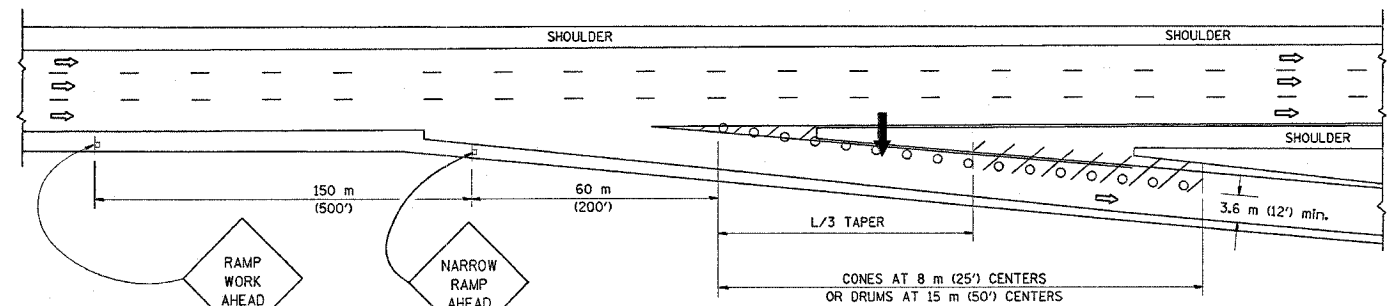
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			29	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

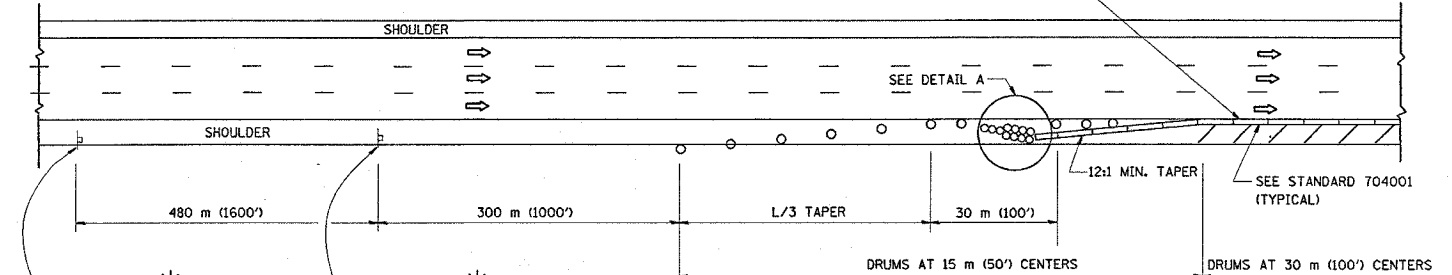
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

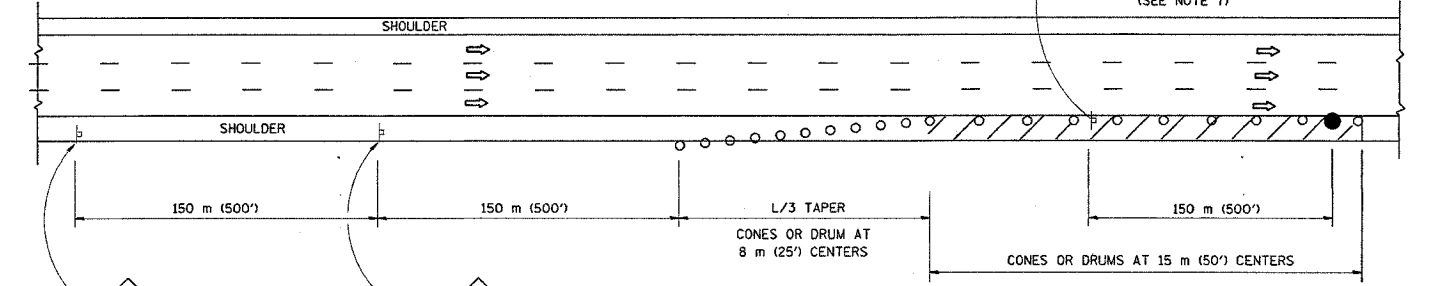
1. THE "L" DISTANCE EQUALS:

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

W = WIDTH OF OFFSET IN METERS (FEET)
S = NORMAL POSTED SPEED KM/H (MPH)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS OUTSIDE THE CLEAR ZONE OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

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

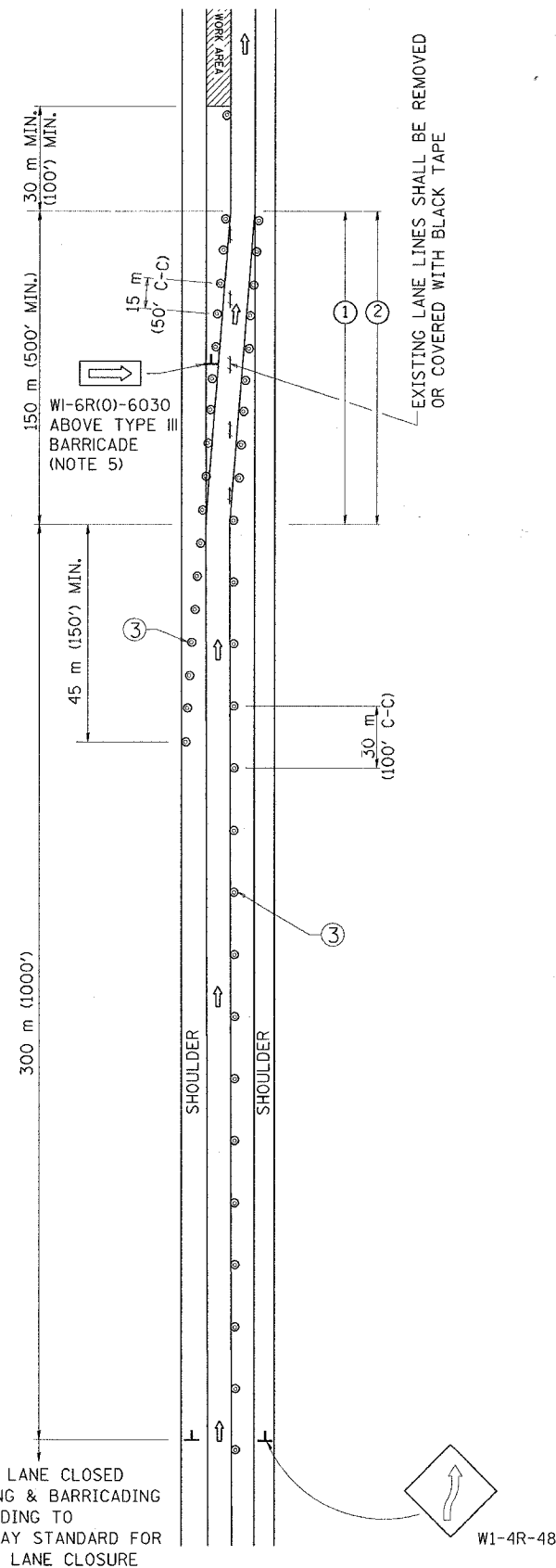
ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

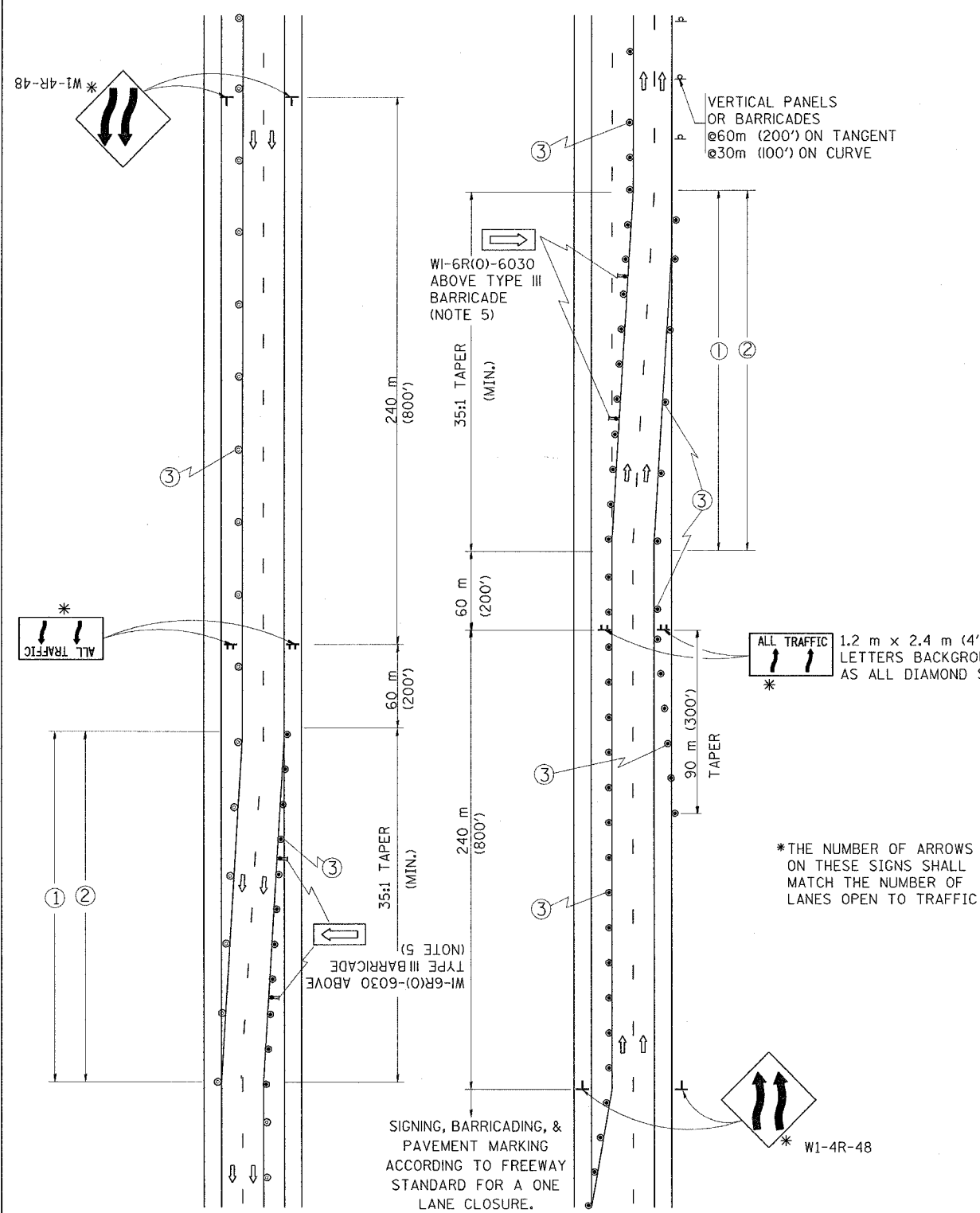
SCALE: NONE
DATE: 2/14/2005

DRAWN BY: DWS
DESIGNED BY: DWS
CHECKED BY: TC-17

SINGLE LANE WEAVE



MULTI-LANE WEAVE



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			29	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 62889

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 90 m (300') 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 3 M-9 M (10'-30') SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 15 m (50') C-C SPACING IN TAPERS AND 30 m (100') 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.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

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

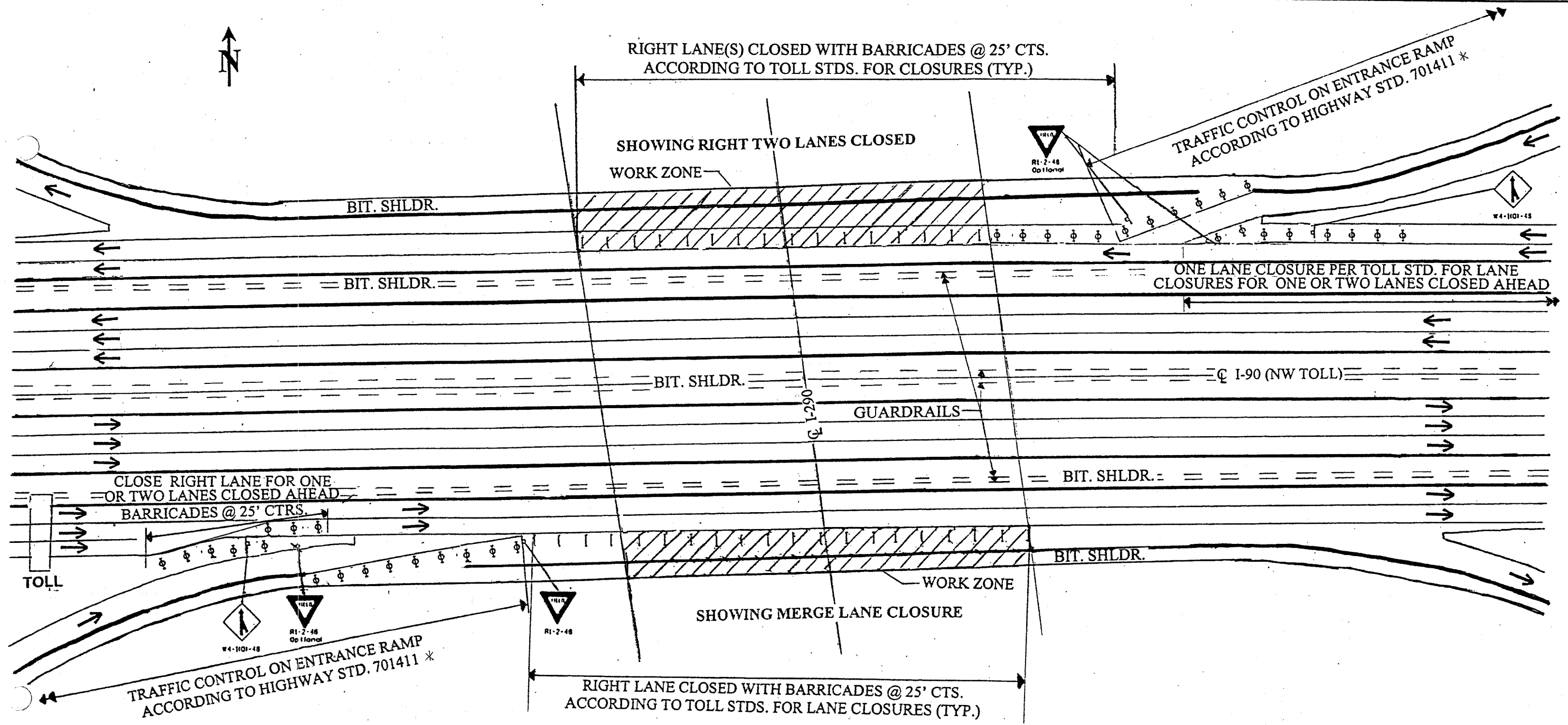
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
 FOR FREEWAY
 SINGLE & MULTI-LANE WEAVE

SCALE: VERT.
 HORIZ.
 DATE 8/13/2005

DRAWN BY R.H.
 CHECKED BY
 TC-9

REVISION DATE: 04/20/03

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2004-120 BR	COOK & DUPAGE	29	24



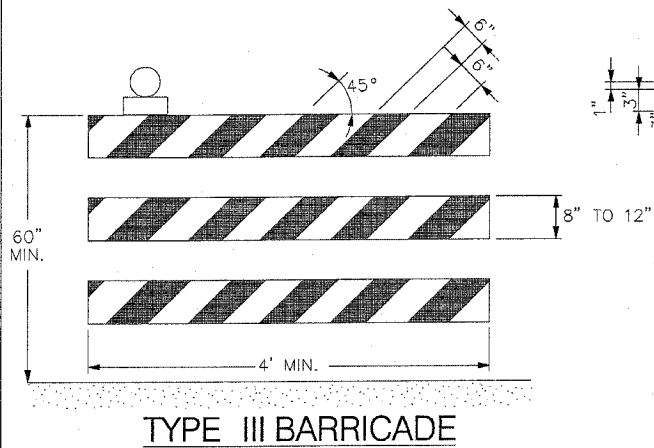
NOTES:

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)".

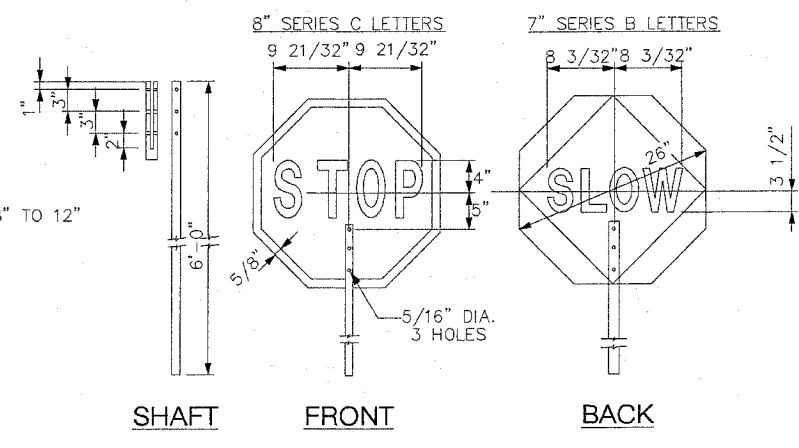
* USE 500' MERGE IN LIEU OF 300'

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.

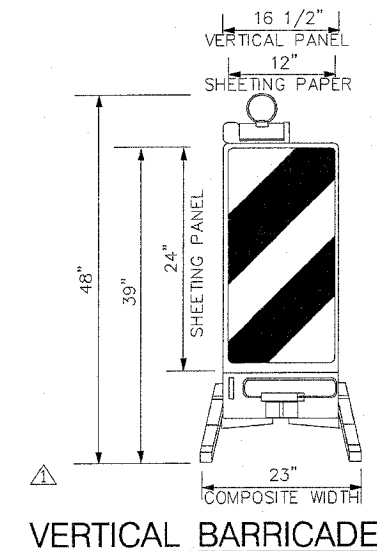
ILLINOIS DEPARTMENT OF TRANSPORTATION
 ENTRANCE & EXIT RAMP TRAFFIC CONTROL:
 (SN 016-0977, LOCATION 1)
 I-90



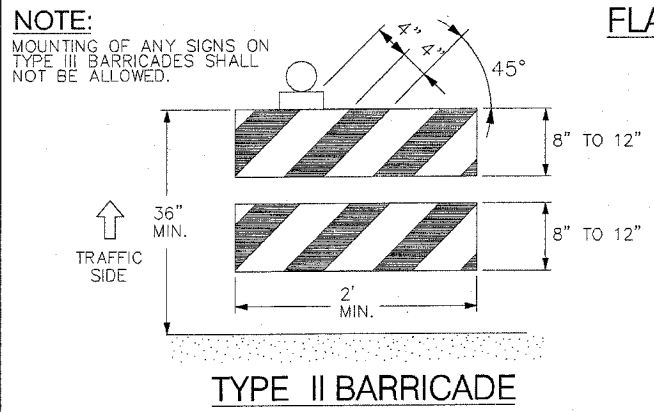
TYPE III BARRICADE



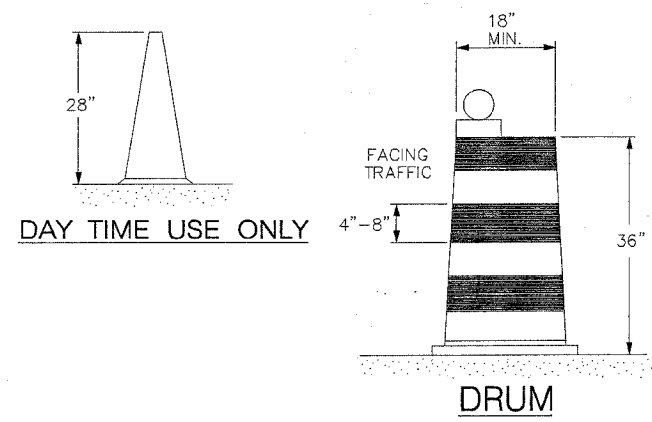
FLAGGER TRAFFIC CONTROL SIGN (PADDLE)



VERTICAL BARRICADE

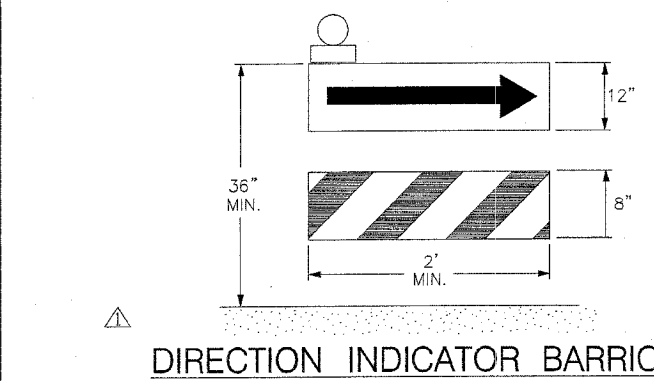


TYPE II BARRICADE

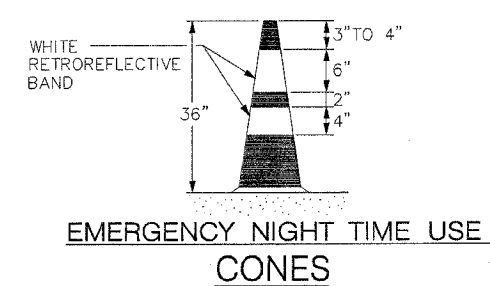


DRUM

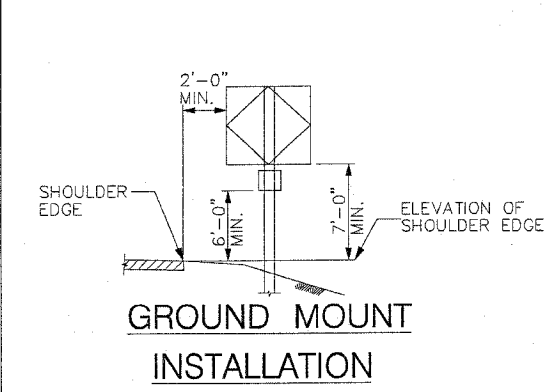
VERTICAL PANEL



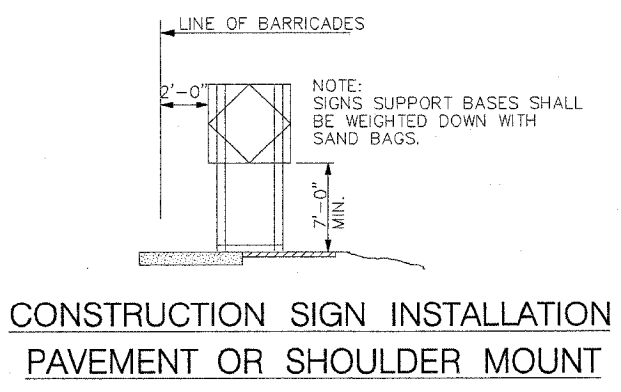
DIRECTION INDICATOR BARRICADE



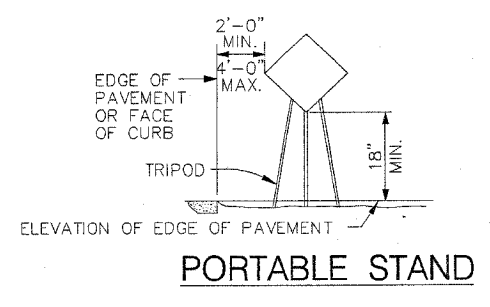
EMERGENCY NIGHT TIME USE CONES



GROUND MOUNT INSTALLATION



CONSTRUCTION SIGN INSTALLATION PAVEMENT OR SHOULDER MOUNT



PORTABLE STAND

GENERAL NOTES:

- SHEETING 1. UNLESS OTHERWISE NOTED, TYPE A REFLECTIVE SHEETING SHALL BE USED FOR TYPE II BARRICADES, DRUMS AND VERTICAL PANELS.
- USAGE 2. ONLY NON-METALLIC DRUMS OR TYPE II BARRICADES SHALL BE USED FOR LONG TERM CLOSURES. THESE DEVICES SHALL NOT BE INTERMIXED WITHIN AN INDIVIDUAL STRING OF DEVICES. CONES MAY BE USED FOR SHORT TERM CLOSURES (FROM SUNRISE TO 1 HOUR BEFORE SUNSET). VERTICAL PANELS ARE TO BE USED AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. TYPE III BARRICADES ARE INTENDED FOR ROAD CLOSURES AND SHALL NOT BE USED FOR DELINEATION OR CHANNELIZATION.
- HEIGHT 3. ALL HEIGHTS SHOWN ARE MEASURED ABOVE THE PAVEMENT SURFACE. DEVICES PLACED ADJACENT TO A TRAFFIC LANE IN AN EXCAVATED AREA 6 INCHES OR DEEPER SHALL HAVE LEGS EXTENDED TO PROVIDE THE DESIRED HEIGHT ABOVE THE PAVEMENT AS SHOWN.
- STRIPING 4. ALL BARRICADES AND VERTICAL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE AND REFLECTORIZED ORANGE STRIPES SLOPING DOWNWARD AS SHOWN AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS. TYPE II BARRICADES SHALL BE STRIPED ON BOTH SIDES. TYPE III BARRICADES SHALL BE STRIPED ON BOTH SIDES WHERE TRAFFIC APPROACHES FROM EITHER DIRECTION. VERTICAL PANELS PLACED ON THE OUTSIDE OF CURVES SHALL BE STRIPED ON BOTH SIDES.
- DRUMS 5. DRUMS SHALL BE NONMETALLIC AND HAVE ALTERNATING REFLECTORIZED ORANGE AND REFLECTORIZED WHITE HORIZONTAL CIRCUMFERENTIAL STRIPES AS SHOWN. THERE SHALL BE AT LEAST TWO ORANGE AND TWO WHITE STRIPES ON EACH DRUM. IF NONREFLECTIVE SPACES ARE LEFT BETWEEN THE ORANGE AND WHITE STRIPES, THEY SHALL BE NO MORE THAN 2" IN WIDTH. ALL NON-REFLECTORIZED PORTIONS OF THE DRUM SHALL BE ORANGE OR WHITE. DRUMS MAY BE SLIGHTLY CONICAL IN SHAPE AND HAVE ONE OR MORE FLAT SURFACES TO MINIMIZE ROLLING WHEN HIT. DRUMS MAY BE WEIGHTED INTERNALLY WITH JUST ENOUGH SAND, OR OTHER MATERIAL TO PROVIDE STABILITY.
- TYPE II BARRICADES 6. FRAMES FOR TYPE II BARRICADES SHALL BE NON-METALLIC, PROVIDE A STABLE SUPPORT, AND HAVE NO RIGID STAY BRACING FOR "A" FRAME DESIGNS. THE PREDOMINANT COLOR FOR NON-REFLECTORIZED BARRICADE COMPONENTS SHALL BE ORANGE OR WHITE.
- TYPE III BARRICADES 7. TYPE III BARRICADES SHALL NOT HAVE ANY VERTICAL OR SLOPING SUPPORTS HEAVIER THAN 4" x 4" LUMBER, 2" x 2" STEEL TUBING, OR 2" x 2" STEEL ANGLES. SIGNS SHALL NOT BE ERECTED ON TYPE III BARRICADES.
- CONES 8. MINIMUM WEIGHT SHALL BE 7 LBS. FOR 28" HIGH CONES WITH A MINIMUM OF 60 PERCENT OF THE TOTAL WEIGHT IN THE BASE.
- I.D. 9. BARRICADES MAY BE IDENTIFIED WITH A LEGEND THAT DOES NOT EXCEED ONE INCH IN HEIGHT ON A NON-REFLECTIVE SURFACE IN A LOCATION NOT VISIBLE TO TRAFFIC.
- WEIGHTS 10. WEIGHTS OF CONCRETE, STONE OR BRICK WILL NOT BE ALLOWED AND ALL WEIGHTS OTHER THAN SANDBAGS MUST BE RIGIDLY ATTACHED TO THE BARRICADES AS CLOSE TO THE GROUND AS POSSIBLE. NO WEIGHTS WILL BE ALLOWED ON THE TOP RAIL OF BARRICADES. SANDBAGS MAY BE PLACED ON THE BARRICADE LEGS, OVER THE STRIPED BOTTOM RAILS NOT FACING TRAFFIC OR SUSPENDED FROM THE BARRICADE RAIL OR FRAME IN SUCH A MANNER SO THAT THE BULK OF THE SAND IS AT LEAST 18" BELOW THE TOP OF THE BARRICADE.
- LIGHTS 11. WARNING LIGHTS ON BARRICADES, DRUMS OR VERTICAL PANELS SHALL BE MOUNTED ABOVE THE TOP OF THE DEVICE TO THE SIDE ON WHICH TRAFFIC WILL PASS AND SHALL NOT OBSCURE ANY REFLECTORIZED PORTION OF THE DEVICE.
- VERTICAL PANELS 12. VERTICAL PANELS MAY BE EITHER POST MOUNTED, FRAME SUPPORTED OR ATTACHED TO THE TOP OF A BARRIER. POST MOUNTED PANELS SHALL BE FIRMLY ATTACHED TO LIGHT WEIGHT METAL POSTS WITH A TOP HEIGHT OF 48" ABOVE THE PAVEMENT SURFACE, OR AS APPROVED BY THE ENGINEER.
- FLAGGER PADDLE FACE 13. THE "STOP" FACE SHALL CONSIST OF WHITE LETTERS AND BORDER ON A RED REFLECTORIZED BACKGROUND. THE "SLOW" FACE SHALL CONSIST OF BLACK LETTERS AND BORDER ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND. AREAS OUTSIDE THE SIGN BORDERS SHALL BE LIGHT BLUE OR BLACK. ALL COLORS AND LETTERS SHALL MEET APPLICABLE FEDERAL STANDARDS.
- FLAGGER PADDLE SHAFT 14. THE SHAFT SHALL CONSIST OF TWO SECTIONS JOINED BY A COUPLING LOCATED 60 INCHES FROM THE BOTTOM OF THE SHAFT. THE PORTION OF THE STAFF WITHIN THE SIGN FACE SHALL MATCH THE SIGN COLORS.
- FLAGGER SIGN 15. THE SIGN BASE MATERIAL SHALL BE 0.08 INCH THICK ALUMINUM. THE SIGN SHALL BE ATTACHED TO THE STAFF WITH RUST RESISTANT HARDWARE.
- FLAGGER PADDLE USAGE 16. THE SIGN SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE USED BY THE FLAGGER IN LIEU OF FLAGS OR OTHER SIGNALING DEVICES.
- SIGN MOUNTING 17. CONSTRUCTION SIGNS MOUNTED FOR SHORT TERM CLOSURES, LESS THAN 12 HOURS, MAY BE PLACED ON PORTABLE STANDS AS SHOWN. CONSTRUCTION SIGNS MOUNTED FOR NIGHTTIME OR MOUNTED LONGER THAN A SHORT TERM CLOSURE SHALL BE GROUND, PAVEMENT OR SHOULDER MOUNTED.
- 18. MOUNTING OF ANY SIGNS ON TYPE III BARRICADES SHALL NOT BE ALLOWED.
- 19. ALL MOT DEVICES AND SIGN SUPPORTS SHALL BE CERTIFIED AS MEETING THE REQUIRED TEST LEVEL OF NCHRP REPORT 350.

ILLINOIS STATE TOLL HIGHWAY AUTHORITY, 2700 OGDEN AVENUE, DOWNERS GROVE, ILLINOIS 60515, TEL: 630.469.4000

APPROVED: *Jeff Daley*
 CHIEF ENGINEER DATE 5-28-2004

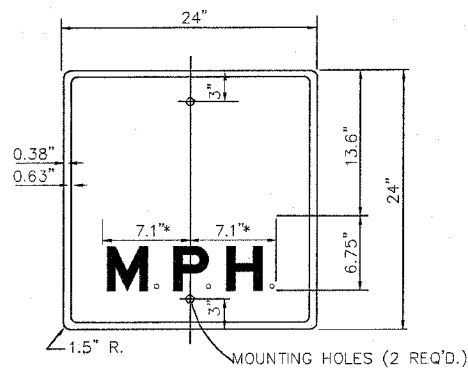
CTE ENGINEERS
 CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/1/04	CORRECTIONS

STANDARD SD 04-10A
 STANDARD PROTECTIVE DEVICES

DRAWING NO.
 E1
 OF

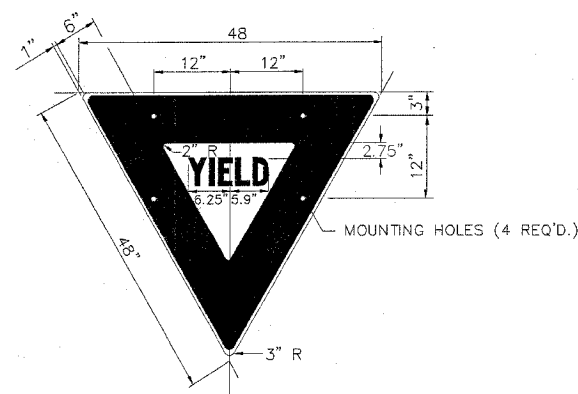


*INCREASE SPACING BY 100%

NOTE: NUMERALS TO BE OPTICALLY SPACED ABOUT VERTICAL CENTERLINE

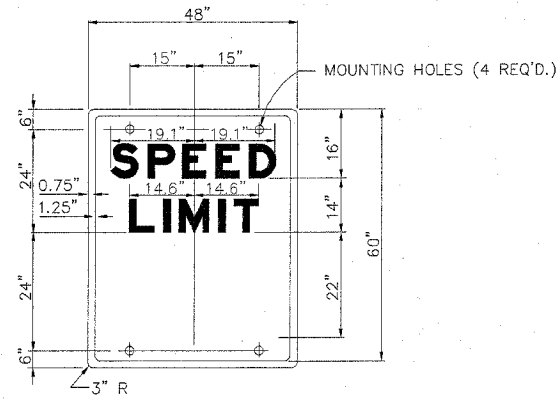
SIGN W13-1

COLOR: BACKGROUND - *
 BORDER AND LETTERS - BLACK
 SIZE: 24" x 24"
 LETTERING: LEGEND - 10" FEDERAL SERIES E
 M.P.H. - 4" FEDERAL SERIES E
 MOUNTING HOLES: 7/16" DIAMETER, 2 HOLES, SPACED AS SHOWN



SIGN R1-2

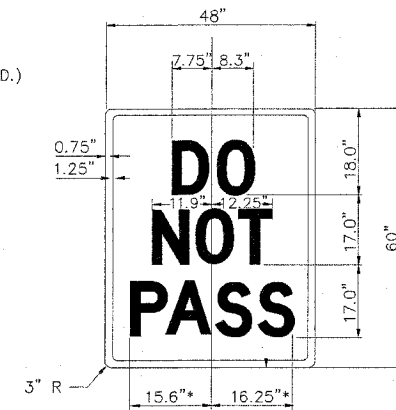
COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
 BORDER AND LETTERS - RED (REFLECTORIZED)(*A)
 SIZE: 48" x 48"
 LETTERING: 4" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN



NOTE: NUMERALS TO BE OPTICALLY SPACED ABOUT VERTICAL CENTERLINE

SIGN R2-1

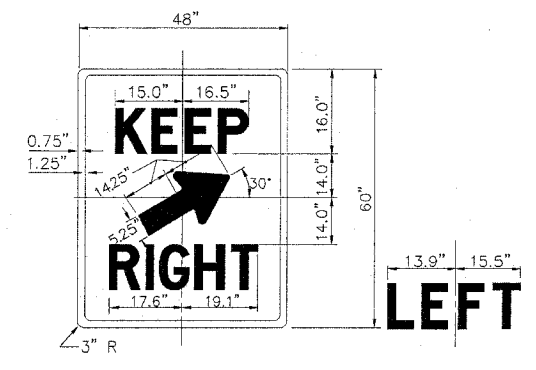
COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48" x 60"
 LETTERING: 8" FEDERAL SERIES E, EXCEPT LEGEND WHICH IS 16" FEDERAL SERIES E
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN



* REDUCE SPACING BY 40%

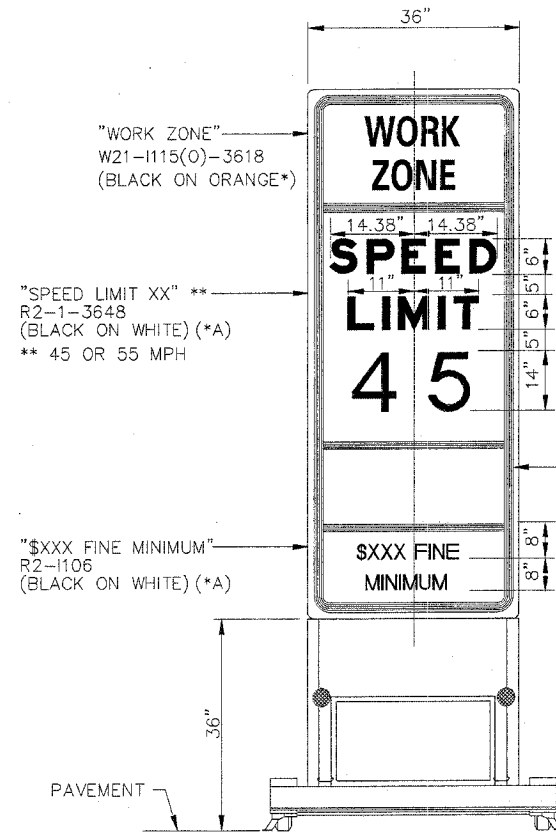
SIGN R4-1

COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48" x 60"
 LETTERING: 8" FEDERAL SERIES E, EXCEPT LEGEND WHICH IS 16" FEDERAL SERIES E
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN ON SIGN R2-1

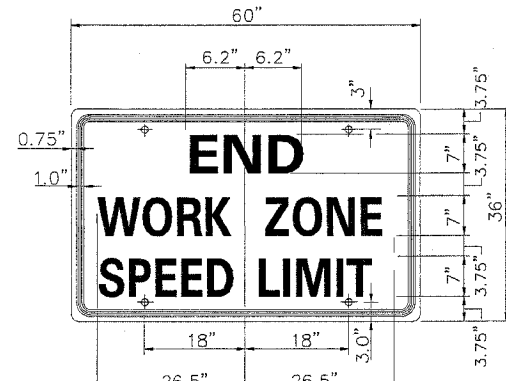


SIGN R4-7B & R4-8B

COLOR: BACKGROUND - WHITE (REFLECTORIZED)(*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48" x 60"
 LETTERING: 8" FEDERAL SERIES E, EXCEPT LEGEND WHICH IS 16" FEDERAL SERIES E
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN ON SIGN R2-1

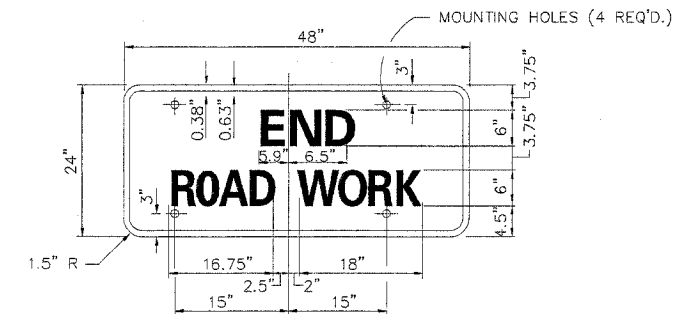


WORK ZONE SPEED LIMIT SIGN ASSEMBLY



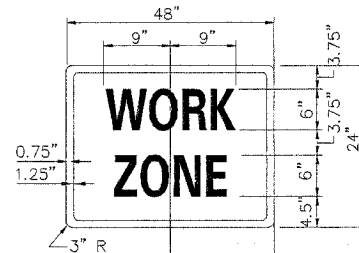
SIGN G20-1103

(BLACK ON ORANGE -*)
 COLOR: BACKGROUND - ORANGE
 BORDER AND LETTERS - BLACK
 SIZE: 60" x 36"
 LETTERING: 6" FEDERAL SERIES C,
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN



SIGN G20-2A

(BLACK ON ORANGE -*)
 COLOR: BACKGROUND - ORANGE
 BORDER AND LETTERS - BLACK
 SIZE: 48" x 24"
 LETTERING: 6" FEDERAL SERIES C,
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN



SIGN G20-1102

(BLACK ON ORANGE -*)
 COLOR: BACKGROUND - ORANGE
 BORDER AND LETTERS - BLACK
 SIZE: 48" x 24"
 LETTERING: 6" FEDERAL SERIES C,
 MOUNTING HOLES: 7/16" DIAMETER, 4 HOLES, SPACED AS SHOWN ON SIGN G20-2A

NOTES:

(APPLY TO STANDARDS SD XX-11A, SD XX-11B & SD XX-11C)

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
 * - FLUORESCENT ORANGE TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATION.
 (*A) - TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATION.

APPROVED: *Jeff Daley*
 CHIEF ENGINEER
 DATE: 5-28-2004

CTE ENGINEERS
 CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

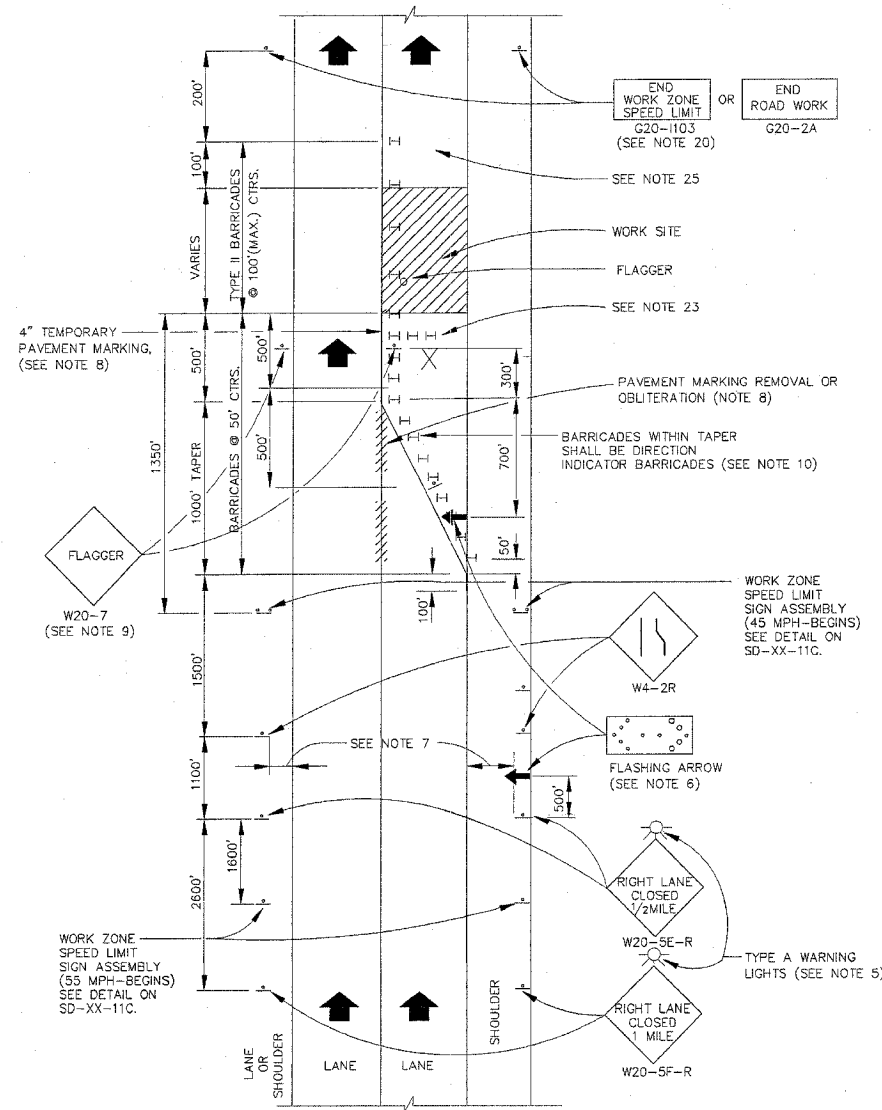
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/1/04	REVISED SIGN ASSEMBLY
		DELETED CONSTRUCTION
		SPEED SIGN.

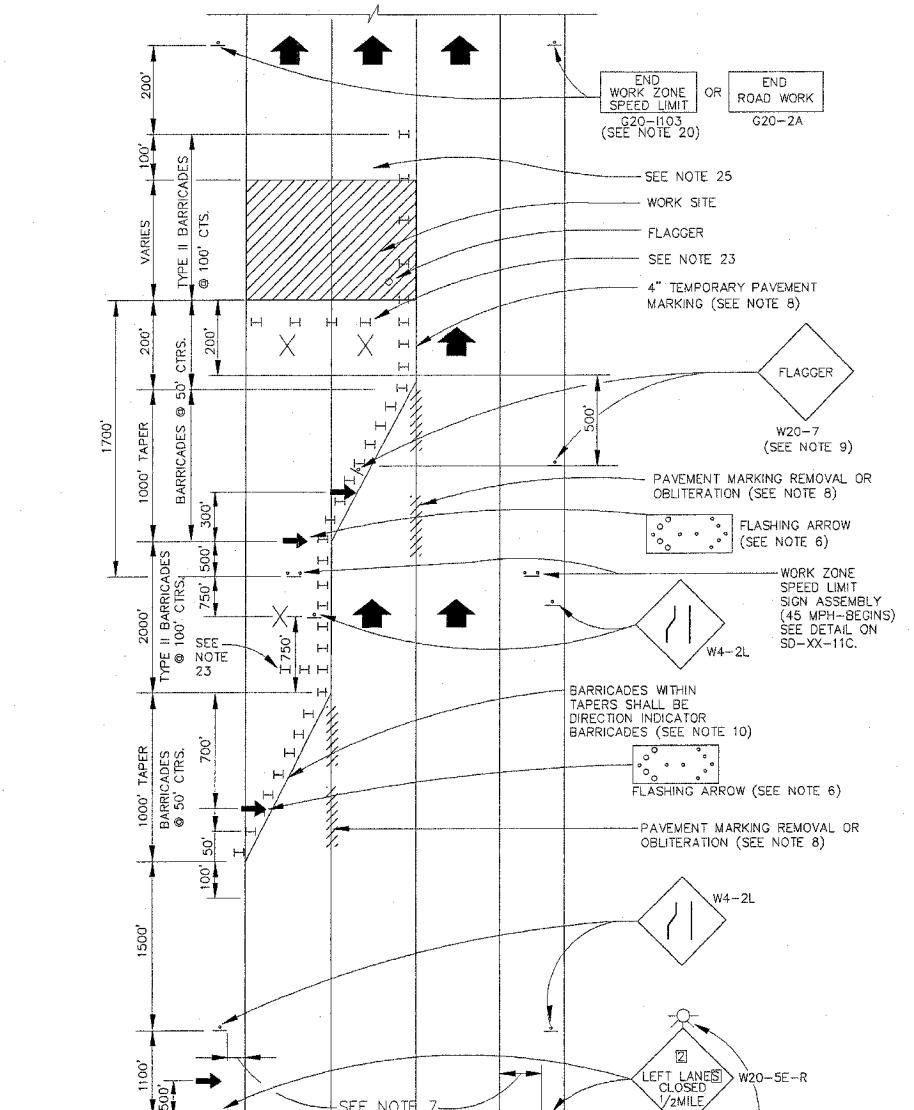
STANDARD SD 04-11C
 CONSTRUCTION SIGNS III

DRAWING NO.
 E6
 OF

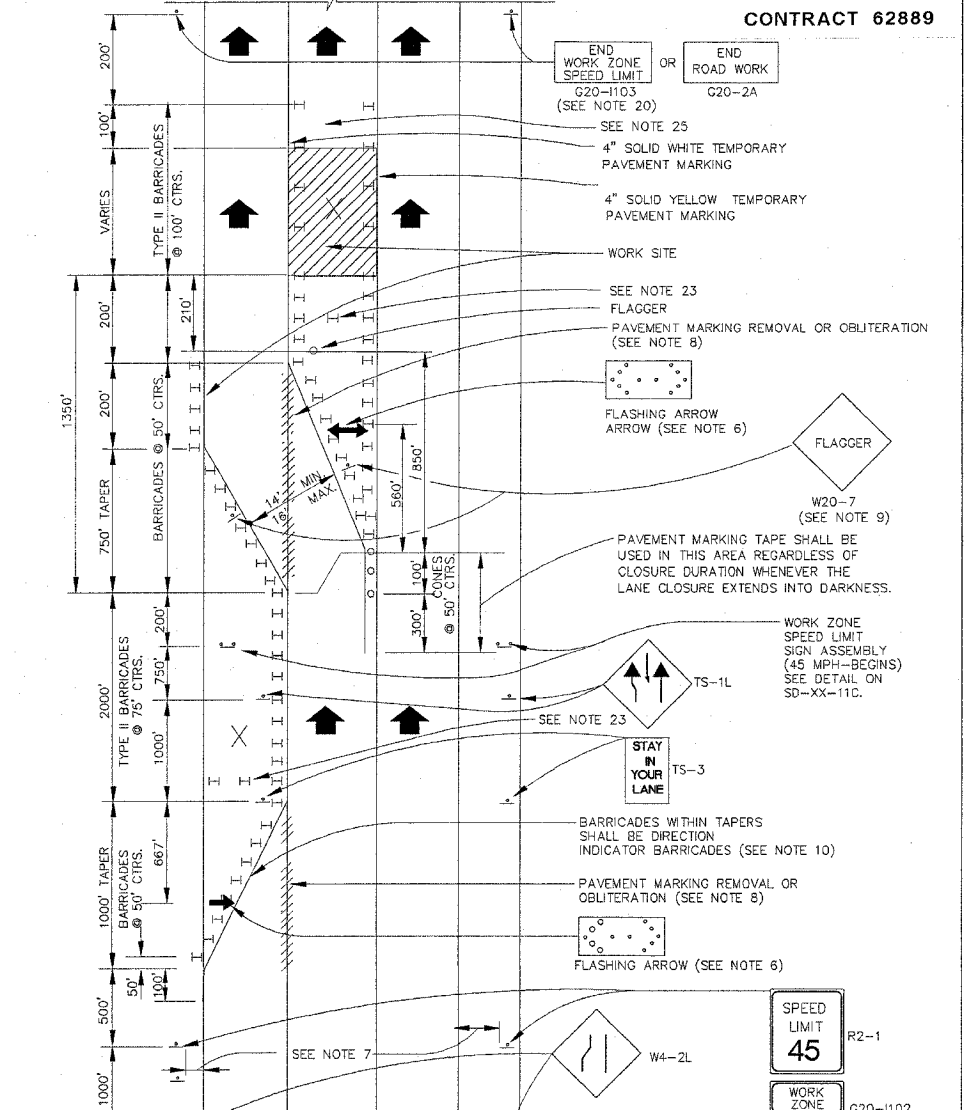
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ONE-LANE CLOSURE



TWO-LANE CLOSURE



CENTER-LANE CLOSURE

GENERAL NOTES

- FOR DETAILS OF PROTECTIVE DEVICES AND SIGNS SEE APPLICABLE TOLLWAY STANDARDS DRAWINGS.
- IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
- FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND 1/2 MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES, THE LIGHTS MAY BE OMITTED AND A MINIMUM OF 18" X 18" ORANGE WARNING FLAG AFFIXED TO THE FIRST SIGN ONLY.
- FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
- CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE, IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
- PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
- WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER-AHEAD SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. SEE NOTE 14 REGARDING MOVING OPERATIONS.
- DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
- THE CONTRACTOR SHALL PROVIDE SUITABLE FRAMING TO SUPPORT THE GUIDE SIGN. THE ADEQUACY OF THE SUPPORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
- CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.

- WHENEVER WORKERS ARE PRESENT, ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY WITH A 45 MPH POSTED SPEED SHALL BE PLACED ADJACENT TO THE OPEN LANE AT A DISTANCE OF 1000' MINIMUM TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE LANE CLOSURE. MOVING OPERATIONS WILL REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
- AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
- THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
- ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
- THE SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT.
- SIGNS WITH G20-2A, OR AND G20-1103 SHALL BE IN PLACE WHEN THE SIGN ASSEMBLY (WORK ZONE SPEED LIMIT SIGN) IS UP. THESE SIGNS SHALL ALSO BE REMOVED OR COVERED WHEN THE SIGN ASSEMBLY IS REMOVED OR COVERED, UNLESS STILL REQUIRED BY THE MAINTENANCE OF TRAFFIC PLAN.
- BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.

- SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
- PLACE CHECK BARRICADES IN ACCORDANCE WITH SECTION 1001.6.2 OF THE STANDARD SPECIFICATIONS.
- REFER TO SHEET 2 OF 2 OF THIS STANDARD FOR SIGNAGE IN ADVANCE OF 1 MILE.
- WHEN THE CLOSURE EXTENDS A MINIMUM 2000 FEET PAST THE LAST WORKER, AND THE WIDTH OF THE OPEN LANES HAVE NOT BEEN ALTERED, A WORK ZONE SPEED LIMIT SIGN ASSEMBLY (55-RESUMES) SHALL BE PLACED AT 1/2 MILE INTERVALS UNTIL THE END OF THE CLOSURE, OR THE NEXT WORK OPERATION.

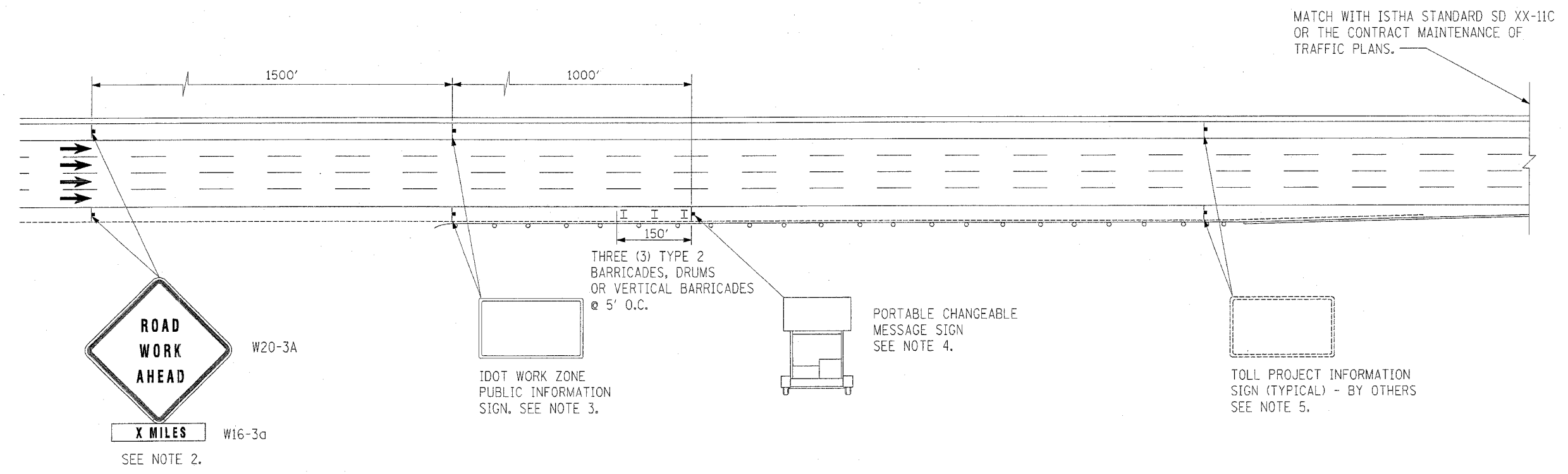
APPROVED: *Jeff Wiley*
 CHIEF ENGINEER
 DATE 5-21-2004

CTE ENGINEERS
 CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/1/04	CORRECTIONS

STANDARD SD 04-20A
 LANE CLOSURE DETAILS
 DRAWING NO. E10
 OF



NOTES

1. THE ADVANCE SIGNAGE SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE 'ROAD WORK AHEAD' SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
2. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
3. THE WORK ZONE INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS (217-782-2076).
4. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE(S) CLOSED" / "X MILES AHEAD"
 "LEFT LANE(S) CLOSED" / "X MILES AHEAD"
 "LANE(S) SHIFT" / "X MILES AHEAD"
 "ALL LANES OPEN".
 THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
5. THE TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BETWEEN THE PORTABLE CHANGEABLE MESSAGE SIGN AND THE "ROAD WORK - 1 MILE AHEAD" SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY REGARDING THE LOCATION OF THESE SIGNS, AND NOTIFY THE AUTHORITY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

SHEET 2 OF 2

APPROVED *Jeff Riley*
 CHIEF ENGINEER DATE 5-28-2004

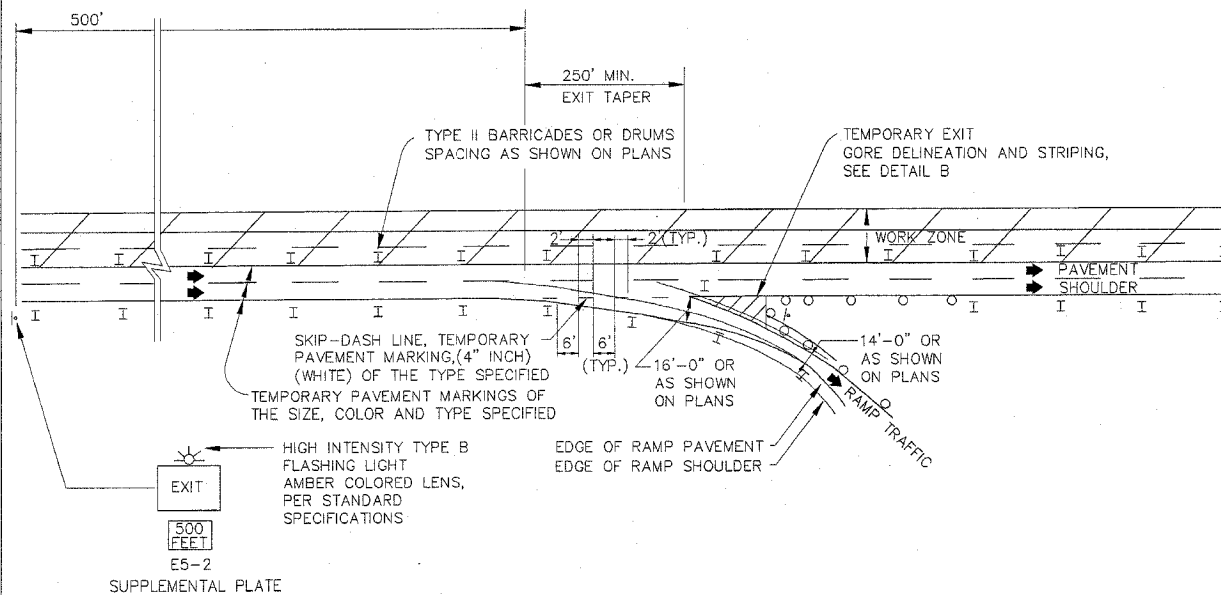
CTE ENGINEERS
 CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

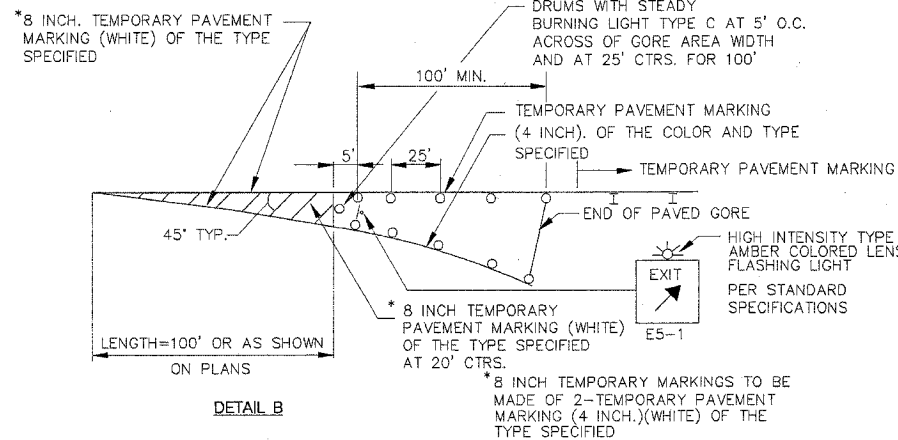
REVISIONS	
NO.	DATE

STANDARD SD 04-20A
 LANE CLOSURE DETAILS
 ADVANCE SIGNAGE

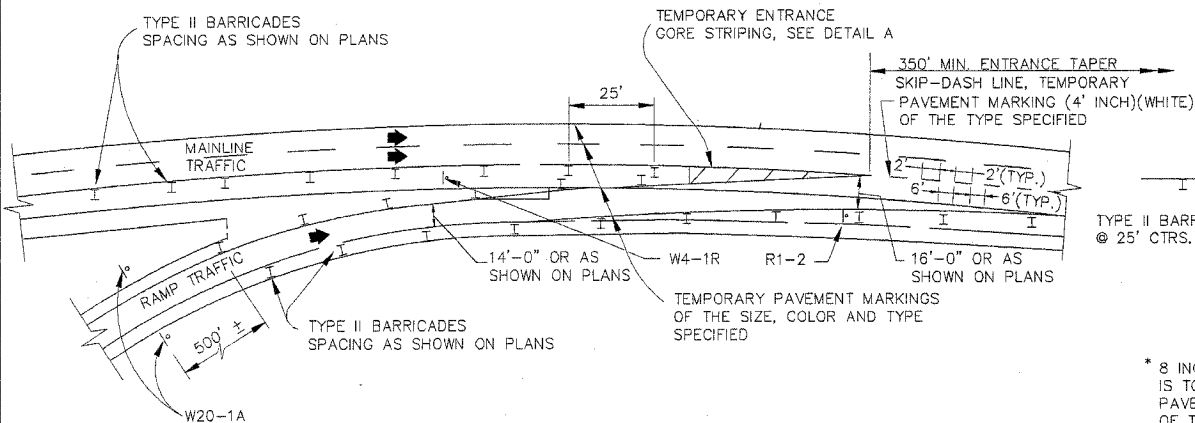
DRAWING NO.
 E10A
 OF



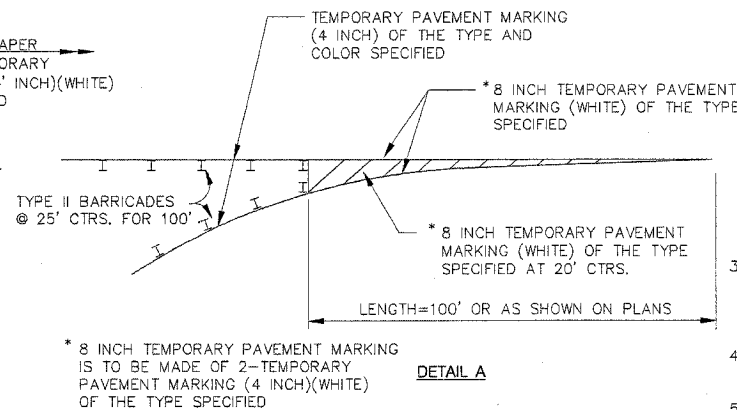
TYPICAL APPLICATION OF TEMPORARY EXIT GORE DELINEATION AND SIGNING



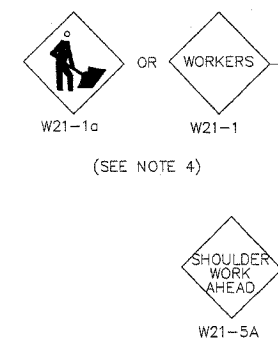
TEMPORARY EXIT GORE DELINEATION AND SIGNING



TYPICAL APPLICATION OF TEMPORARY ENTRANCE GORE DELINEATION AND SIGNING



TEMPORARY ENTRANCE GORE STRIPING



SHOULDER CLOSURE DETAIL
N.T.S.

GENERAL NOTES:

1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.

3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR THE NINE DEVICES (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN FOR THE SECOND SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT, TYPE C SHALL BE USED.
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY (55 MPH - BEGINS) SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.

9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE SIGN ASSEMBLY SHALL NOT BE UTILIZED WHEN WORKERS ARE BEHIND A TEMPORARY (MOVABLE BARRIER) WALL.
12. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT OR CLOSE TO MOVING TRAFFIC.
13. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
14. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
15. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.

APPROVED *Jeff Daley* DATE 5-28-2004
CHIEF ENGINEER

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/1/04	REVISED SHOULDER CLOSURE DETAIL
2	8/16/04	ADDED NOTE 15

STANDARD SD 04-20B
TEMPORARY GORE DETAILS AND SHOULDER CLOSURE DETAILS

DRAWING NO.
E11
OF