

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	1
		ILLINOIS	CONTRACT NO. 64S33	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS SEE SHEET NO. 2

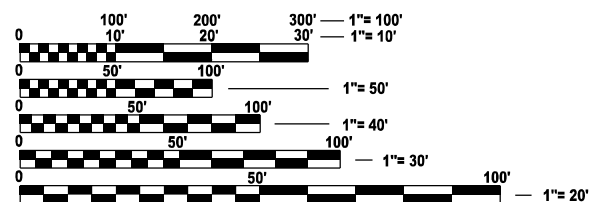
# PROPOSED HIGHWAY PLANS

FAS ROUTE 1087 (IL 73)  
SECTION (106 BR)BDR  
PROJECT HIBP-AG6V(894)  
TYPE of IMPROVEMENT: BRIDGE REPAIR / OVERLAY  
SN 089-0030 OVER INDIAN CREEK  
STEPHENSON COUNTY



*Jameel Ahmed* 12/10/2024  
IL. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 11/30/2025

APPLIES TO SHEETS 1 - 14; 25



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.

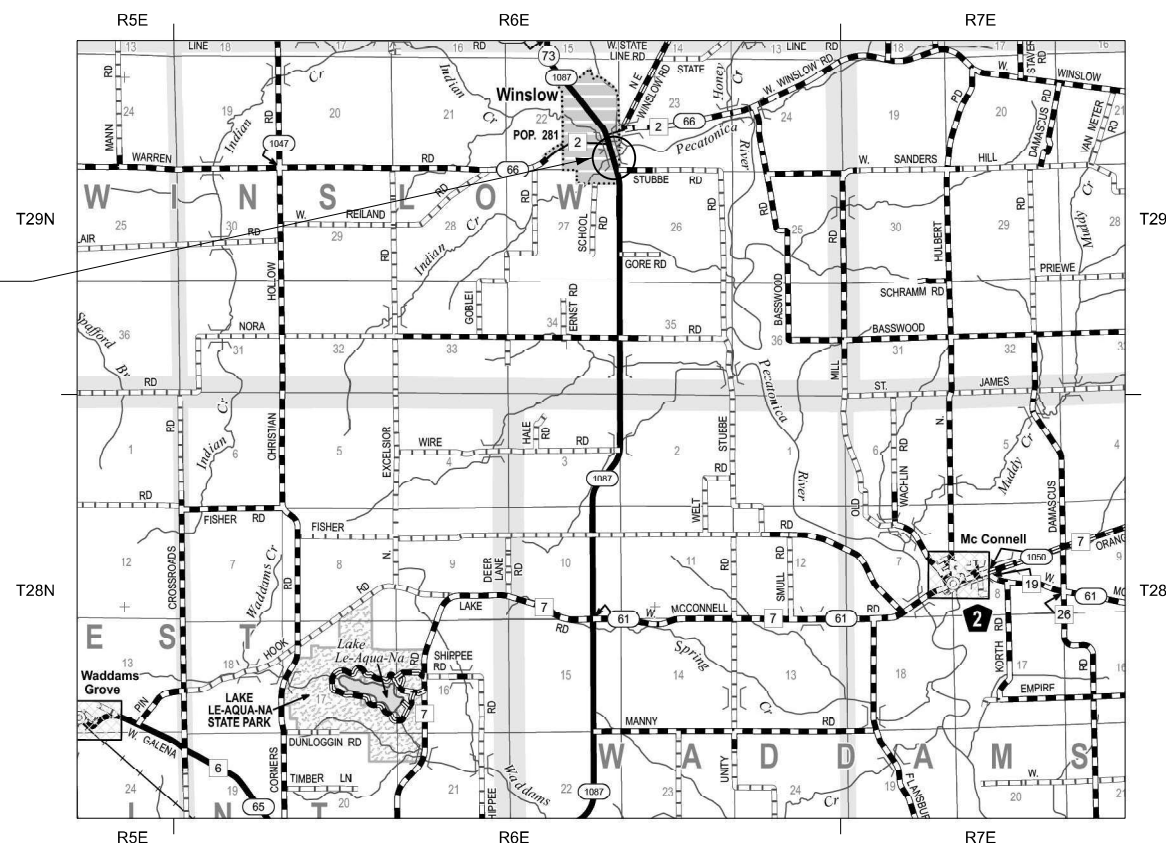
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JAMES R. PUSH, PE (630) 930-6420  
PROJECT MANAGER: DERRICK S. LOPEZ, PE (815) 284-5398

CONTRACT NO. 64S33



C-92-063-23



GROSS LENGTH = 136.33 FT. = 0.025 MILE  
NET LENGTH = 136.33 FT. = 0.025 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 11, 2024  
*Juha Thompson*  
REGIONAL ENGINEER

January 31, 2025  
*Scott E. [Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

January 31, 2025  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHT NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
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14	ROADWAY PLAN
15-24	STRUCTURAL PLANS
25	PAVEMENT MARKING PLAN
26-29	WORK ZONE SIGN DETAILS (DISTRICT STD 34.1)
30-33	TYPICAL PAVEMENT MARKINGS (DISTRICT STD 41.1)
34	GUARDRAIL REFLECTORS, TYPC C (SPECIAL) (DISTRICT STD 55.1)

## HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT MARKING OR SIGNING.
- THE EXISTING HOT-MIX ASPHALT ON PRIVATE AND COMMERCIAL ENTRANCES SHALL BE BLADED OFF OR MILLED AND DISPOSED OF OUTSIDE THE PROJECT LIMITS. THIS COULD BE THE ENTIRE ENTRANCE OR TAPERED AT THE END DEPENDING ON IF THE MAINLINE IS RESURFACED OR MILLED AND RESURFACED. THE COST OF THE BLADING, MILLING, ROLLING, AND DISPOSAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR INCIDENTAL HOT-MIX ASPHALT SURFACING.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA CONC SURF CSE
PG:	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION	IL 9.5
FRICTION AGGREGATE:	MIX "D"
MIX WEIGHT	112 lb/sy/in
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:  
 BITUMINOUS MATERIALS (TACK COAT) 0.05 LBS / SQ FT (ON PAVEMENT)  
 BITUMINOUS MATERIALS (TACK COAT) 0.025 LBS / SQ FT (FOG)  
 HOT-MIX ASPHALT MATERIAL 0.056 TON / SQ YD PER 1"  
 AGGREGATE MATERIAL 1.60 TONS / CU YD

- THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.
- CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
  - ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
  - ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
  - THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
  - CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
- THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:
 

(TYPE NAME & PHONE NUMBER OF JULIE COMPANIES FROM ATTACHED UTILITY FORM.)

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
- RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.
- WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:

IL-73 BRIDGE OVER INDIAN CREEK

THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

## MAINTENANCE OF TRAFFIC GENERAL NOTES

- THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS. BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE MOT PLANS.
- A FULL DEPTH SAW CUT SHALL BE REQUIRED BETWEEN PAVEMENT, CURB AND/OR GUTTER TO REMAIN AND PAVEMENT, CURB AND/OR GUTTER TO BE REMOVED PRIOR TO THE BEGINNING OF REMOVAL WORK. COST TO BE INCLUDED WITH APPLICABLE REMOVAL ITEMS.
- THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 2 ENGINEER AT (815) 284-2271 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

## SUGGESTED MAINTENANCE OF TRAFFIC SEQUENCING

### PRESTAGE

INSTALL CONSTRUCTION TRAFFIC CONTROL SIGNS AND DEVICES FOR PRESTAGE CONSTRUCTION USING HIGHWAY STANDARD 701326.

### STAGE 1

INSTALL ALL STAGE 1 CONSTRUCTION TRAFFIC CONTROL SIGNALS, SIGNS, MARKINGS, AND DEVICES AS DETAILED IN THE PLANS AND APPROPRIATE HIGHWAY STANDARD DRAWINGS.

MERGE ALL TRAFFIC IN BOTH DIRECTIONS TO THE EXISTING SOUTHBOUND LANE.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH THE DETAILS IN THE BRIDGE PLANS.

### STAGE 2

CHANGE STAGE 1 CONSTRUCTION TRAFFIC CONTROL SIGNS, MARKINGS, AND DEVICES AS REQUIRED TO REFLECT STAGE 2 PLANS AND APPROPRIATE STANDARD DRAWINGS.

MERGE ALL TRAFFIC IN BOTH DIRECTIONS TO THE EXISTING NORTHBOUND LANE.

REMOVAL ALL CONFLICTING TRAFFIC CONTROL ITEMS FROM STAGE 1 SETUP.

COORDINATE WORK TO BE COMPLETED IN THIS STAGE WITH DETAILS IN THE BRIDGE PLANS.

### POST STAGE

REMOVE ALL CONSTRUCTION TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION ITEMS.

REMOVE ANY REMAINING EXISTING OR TEMPORARY PAVEMENT MARKINGS WITHIN THE PERMANENT PAVEMENT MARKING LIMITS. INSTALL FINAL PAVEMENT MARKINGS TO MATCH EXISTING CONDITIONS AND AS DETAILED IN THE APPROPRIATE HIGHWAY STANDARDS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES

SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	2
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

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	DRAWN - AAF	REVISED -
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PLOT DATE = 12/9/2024	DATE - 12/09/2024	REVISED -

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY	BRIDGE
				0059 RURAL	0059 S.N. 089-0030
28000510	INLET FILTERS	EACH	10	10	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	149	149	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	332	332	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	51	51	
42001300	PROTECTIVE COAT	SQ YD	5	5	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	158	158	
44000600	SIDEWALK REMOVAL	SQ FT	158	158	
50102400	CONCRETE REMOVAL	CU YD	5.8		5.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	5.8		5.8
50300260	BRIDGE DECK GROOVING	SQ YD	175		175
50300300	PROTECTIVE COAT	SQ YD	207		207
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	489		489
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2837		2837
50800515	BAR SPLICERS	EACH	65		65



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 (SHEET 1 OF 3)**

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	3
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY	BRIDGE
				0059 RURAL	0059 S.N. 089-0030
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	544		544
59000200	EPOXY CRACK INJECTION	FOOT	62		62
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70102621	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	EACH	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	921	921	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2,255	2,255	
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	184	184	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	39	39	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	75	75	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	62.5	62.5	
70600241	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	

MODEL: SOO - SOO-2 (Sheet)  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
(SHEET 2 OF 3)**

SCALE: 1"=50'    SHEET 2    OF 3    SHEETS    STA.    TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	4
CONTRACT NO. 64S33			ILLINOIS   FED. AID PROJECT	

REV 1/B/B/23

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY	BRIDGE
				0059	0059
				RURAL	S.N. 089-0030
70600341	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2626	2626	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	394	394	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	68	68	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	605	605	
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	188		188
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	44		44
Z0017300	DOWEL REPAIR	EACH	9		9
Z0029300	GROUT REPAIR	FOOT	23		23
Z0032700	KEYWAY REPAIR	FOOT	191		191
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	36	36	
X5010010	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	489		489
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	188		188

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
(SHEET 3 OF 3)**

SCALE: 1"=50'    SHEET 3    OF 3    SHEETS    STA.    TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	5
CONTRACT NO. 64S33				
ILLINOIS   FED. AID PROJECT				

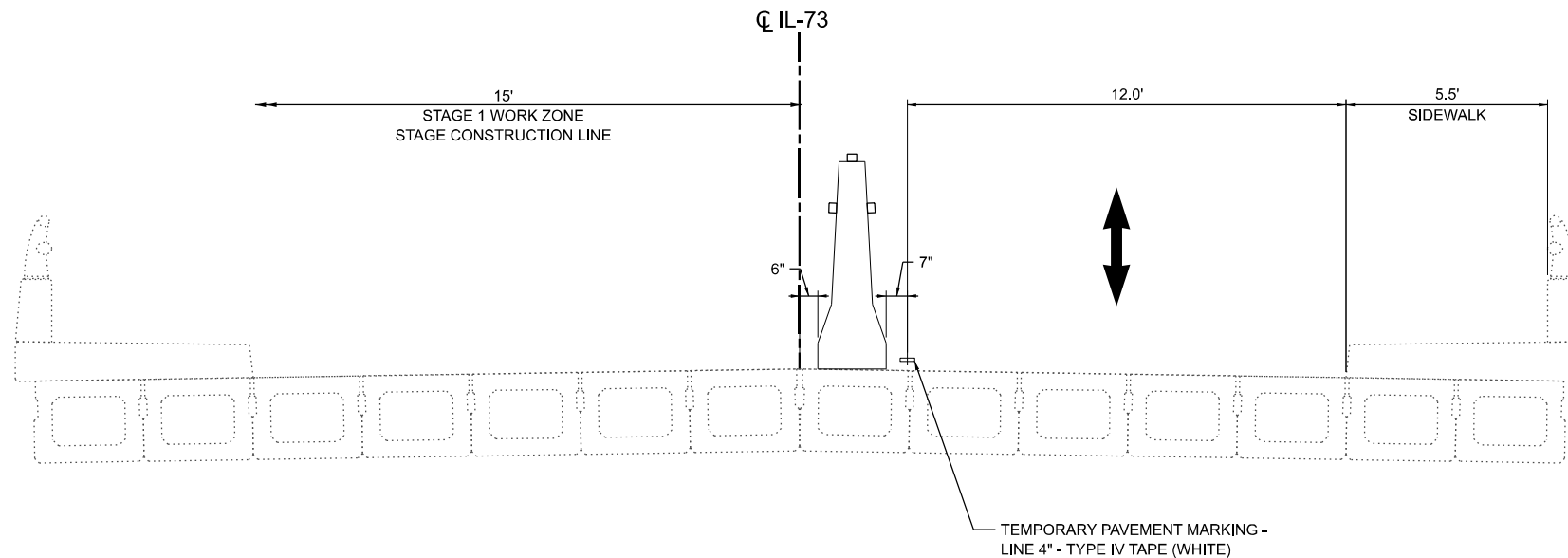
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TEMPORARY CONCRETE BARRIER W/  
GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

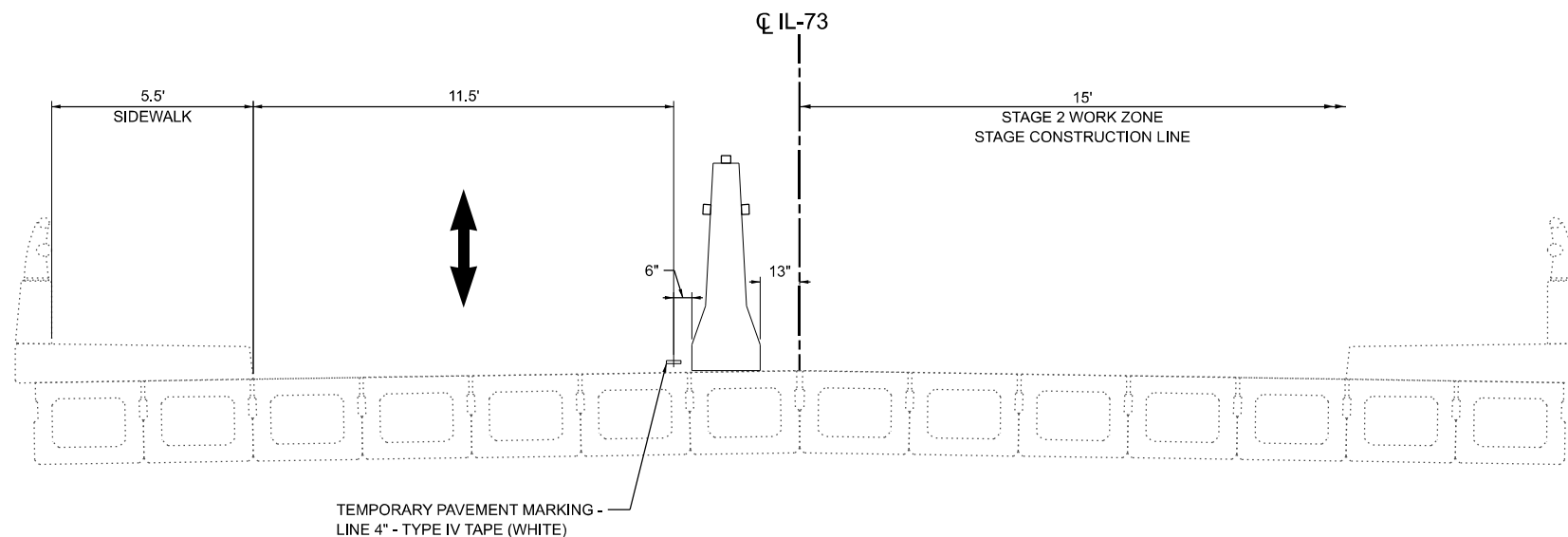


DIRECTION OF TRAFFIC



**STAGE 1 TYPICAL SECTION**

SN 089-0030  
(LOOKING SOUTH)



**STAGE 2 TYPICAL SECTION**

SN 089-0030  
(LOOKING SOUTH)

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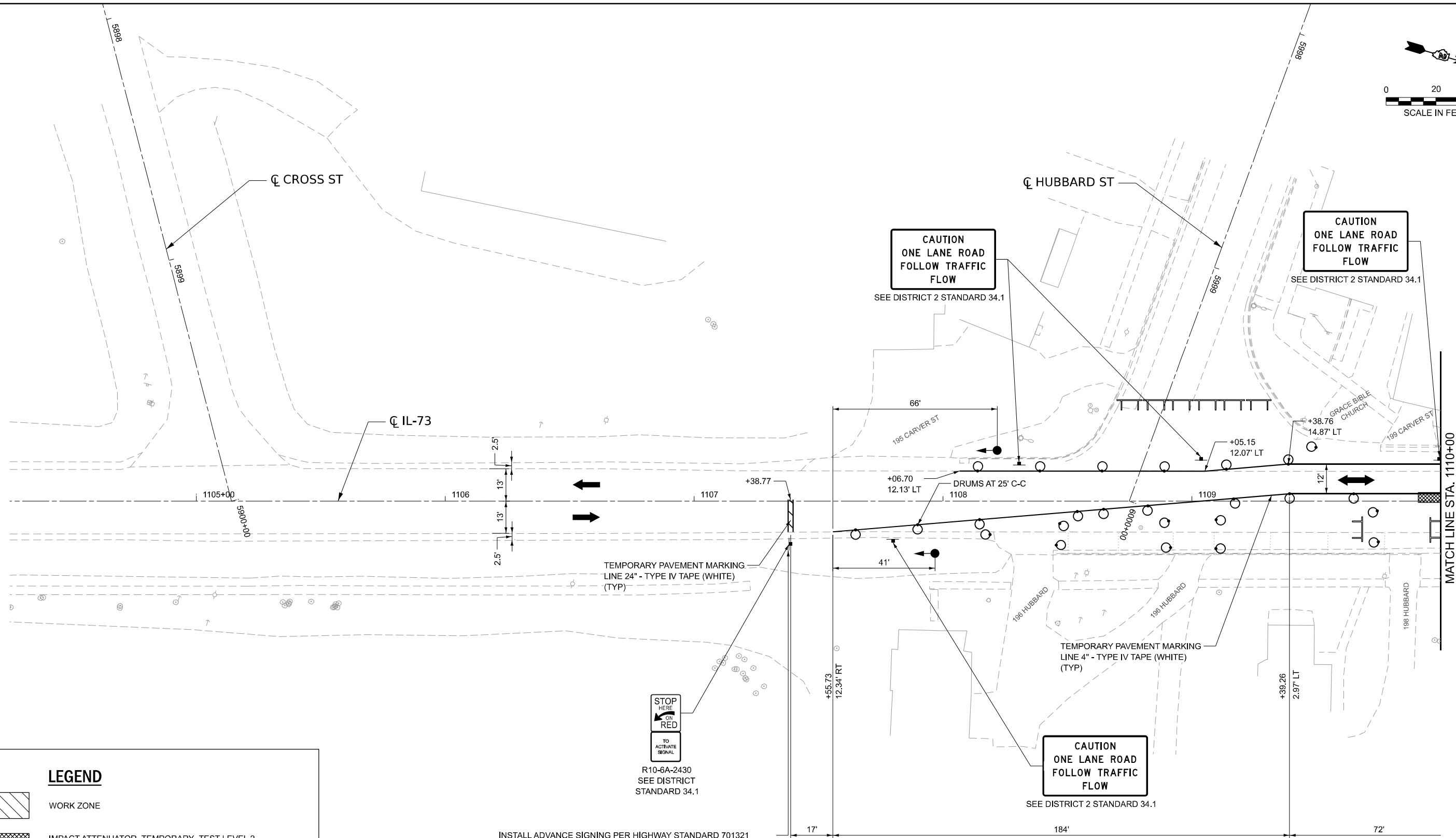
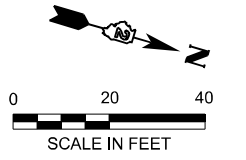
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK  
MAINTENANCE OF TRAFFIC - STAGING TYPICALS**

SCALE: CUSTOM 1:30 SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	6
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				



**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**STOP  
HERE  
ON  
RED**  
TO  
ACTIVATE  
SIGNAL  
R10-6A-2430  
SEE DISTRICT  
STANDARD 34.1

TEMPORARY PAVEMENT MARKING  
LINE 24" - TYPE IV TAPE (WHITE)  
(TYP)

TEMPORARY PAVEMENT MARKING  
LINE 4" - TYPE IV TAPE (WHITE)  
(TYP)

INSTALL ADVANCE SIGNING PER HIGHWAY STANDARD 701321  
SEE "MAINTENANCE OF TRAFFIC - ADVANCED SIGNING OVERVIEW"

**NOTES:**

1. REFLECTORS TYPE C - MOUNTED ON TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH IDOT STANDARD 782006. COST INCLUDED IN ITEM "TEMPORARY CONCRETE BARRIER"

**LEGEND**

	WORK ZONE
	IMPACT ATTENUATOR, TEMPORARY, TEST LEVEL 2
	TRAFFIC SIGN
	VERTICAL PANEL
	TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	TYPE II BARRICADE OR DRUM
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DIRECTION OF TRAFFIC
	ONE WAY TRAFFIC
	TEMPORARY TRAFFIC SIGNAL

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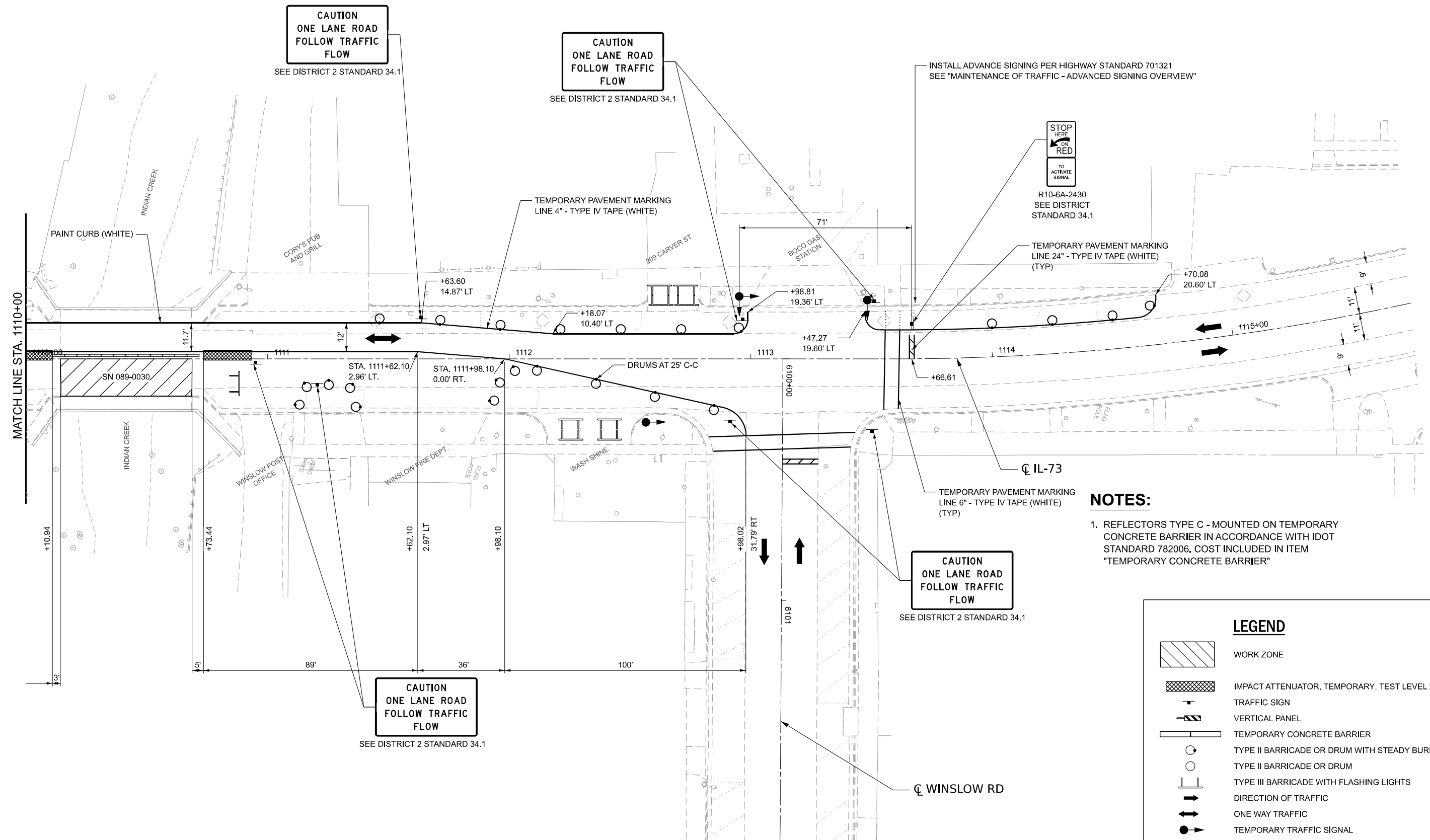
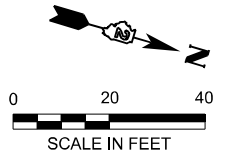
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK  
MAINTAINANCE OF TRAFFIC - STAGE 1 PLANS**

SCALE: 1"=20' SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	7
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- REFLECTORS TYPE C - MOUNTED ON TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH IDOT STANDARD 782006. COST INCLUDED IN ITEM "TEMPORARY CONCRETE BARRIER"

**LEGEND**

	WORK ZONE
	IMPACT ATTENUATOR, TEMPORARY, TEST LEVEL 2
	TRAFFIC SIGN
	VERTICAL PANEL
	TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	TYPE II BARRICADE OR DRUM
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DIRECTION OF TRAFFIC
	ONE WAY TRAFFIC
	TEMPORARY TRAFFIC SIGNAL

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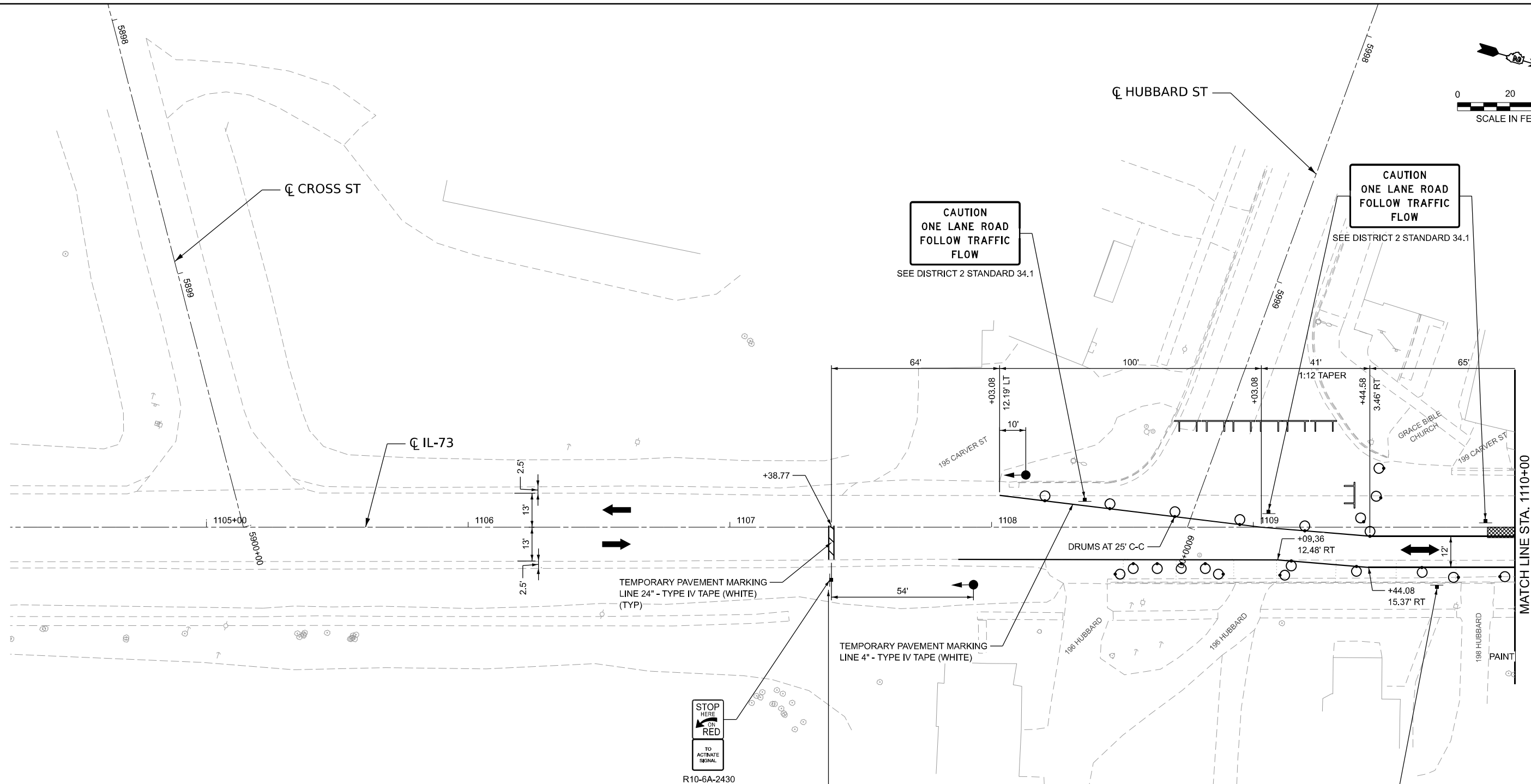
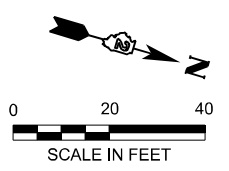
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK**  
**MAINTAINANCE OF TRAFFIC - STAGE 1 PLANS**

SCALE: 1"=20'    SHEET 3 OF 8 SHEETS    STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	8
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				





**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**STOP  
HERE  
ON  
RED**  
**TO  
ACTIVATE  
SIGNAL**  
R10-6A-2430  
SEE DISTRICT  
STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

INSTALL ADVANCE SIGNING PER HIGHWAY STANDARD 701321  
SEE "MAINTENANCE OF TRAFFIC - ADVANCED SIGNING OVERVIEW"

**LEGEND**

- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY, TEST LEVEL 2
- TRAFFIC SIGN
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- ONE WAY TRAFFIC
- TEMPORARY TRAFFIC SIGNAL

**NOTES:**

1. REFLECTORS TYPE C - MOUNTED ON TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH IDOT STANDARD 782006. COST INCLUDED IN ITEM "TEMPORARY CONCRETE BARRIER"

MODEL: MOT-1 (Sheet) FILE NAME: S:\2024\241002 - PTB 210-17.D2 - Quadrel - Various PHHW-2-64533 IL 73\ADDICADD Sheets\264533-Shp-Staging\_02.dgn



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DRAWN	- AAF
CHECKED	- JA
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REVISIONS	
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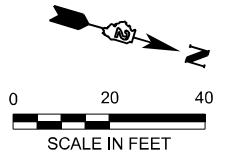
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CHECKED	- JA
DATE	- 12/09/2024
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REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK  
MAINTAINANCE OF TRAFFIC - STAGE 2 PLANS**

SCALE: 1"=20' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	9
CONTRACT NO. 64S33			ILLINOIS FED. AID PROJECT	



**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

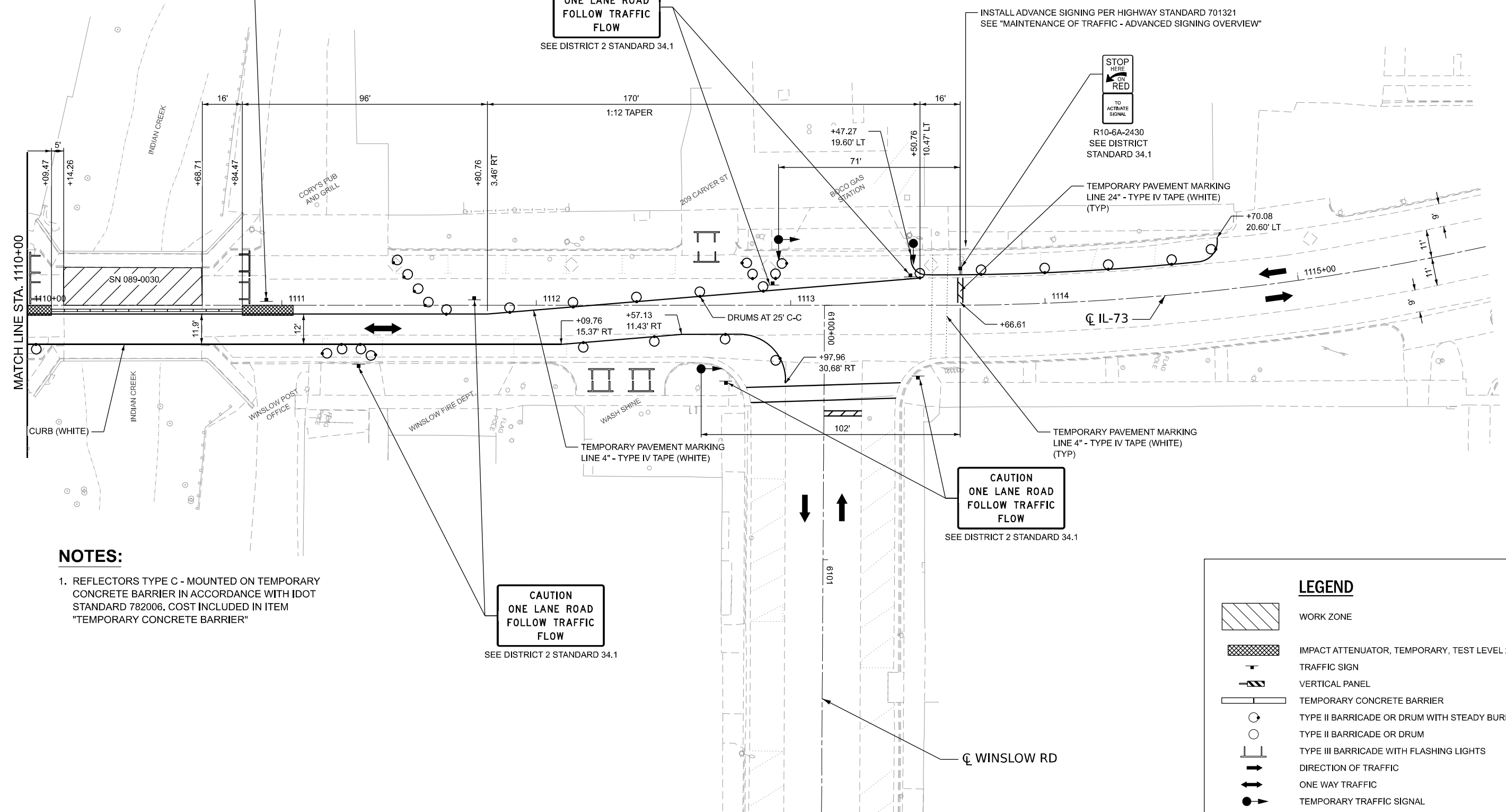
**CAUTION  
ONE LANE ROAD  
FOLLOW TRAFFIC  
FLOW**  
SEE DISTRICT 2 STANDARD 34.1

**NOTES:**

1. REFLECTORS TYPE C - MOUNTED ON TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH IDOT STANDARD 782006. COST INCLUDED IN ITEM "TEMPORARY CONCRETE BARRIER"

**LEGEND**

	WORK ZONE
	IMPACT ATTENUATOR, TEMPORARY, TEST LEVEL 2
	TRAFFIC SIGN
	VERTICAL PANEL
	TEMPORARY CONCRETE BARRIER
	TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	TYPE II BARRICADE OR DRUM
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DIRECTION OF TRAFFIC
	ONE WAY TRAFFIC
	TEMPORARY TRAFFIC SIGNAL



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PLOT SCALE = 0.16666633 / in.	DRAWN - AAF	REVISED -
PLOT DATE = 12/9/2024	CHECKED - JA	REVISED -
	DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK  
MAINTAINANCE OF TRAFFIC - STAGE 2 PLANS**

SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	10
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

**SCHEDULE OF TEMPORARY PAVEMENT MARKINGS AND REMOVAL**

ITEM	LOCATION	BEGIN		END		TEMP PAVEMENT MARKINGS			PAVEMENT MARKINGS REMOVAL					
		STA	OFFSET	STA	OFFSET	4" TEMP	6" TEMP	24" TEMP	4" EX	4" TEMP	6" EX	6" TEMP	24" EX	24" TEMP
<b>STAGE 1</b>														
REMOVE EXISTING PVMT MRKING	SB EDGE	1107+32.16	12.00' LT	1108+48.68	12.00' LT				117					
REMOVE EXISTING PVMT MRKING	CENTERLINE (SKIP DASH)	1107+32.16	CL	1110+68.71	CL				85					
REMOVE EXISTING PVMT MRKING	NB EDGE	1107+32.59	12.00' RT	1108+21.76	12.00' RT				90					
REMOVE EXISTING PVMT MRKING	NB PARKING	1108+48.52	19.75' RT	1109+77.31	19.18' RT				148					
REMOVE EXISTING PVMT MRKING	W. LEG STOP BAR AT HUBBARD ST	1108+70.18	37.87' LT	1108+86.45	31.90' LT								18	
REMOVE EXISTING PVMT MRKING	SB EDGE	1109+50.11	12.00' LT	1110+68.68	12.00' LT				119					
REMOVE EXISTING PVMT MRKING	NB PARKING	1109+91.86	12.00' RT	1110+81.57	12.00' RT				90					
REMOVE EXISTING PVMT MRKING	CENTERLINE	1110+68.71	CL	1113+66.61	CL				373					
REMOVE EXISTING PVMT MRKING	NB PARKING	1111+16.77	20.36' RT	1111+38.77	20.34' RT				38					
REMOVE EXISTING PVMT MRKING	SB PARKING	1111+44.34	19.59' LT	1112+54.34	19.62' LT				130					
REMOVE EXISTING PVMT MRKING	NB PARKING	1111+91.57	20.38' RT	1112+11.57	20.47' RT				36					
REMOVE EXISTING PVMT MRKING	NB EDGE	1112+53.95	12.00' RT	1112+65.93	12.00' RT				12					
REMOVE EXISTING PVMT MRKING	SB PARKING	1112+80.87	19.28' LT	1112+98.81	19.36' LT				75					
REMOVE EXISTING PVMT MRKING	E. LEG CROSSWALK AT WINSLOW RD	1112+83.89	32.21' RT	1113+41.64	30.48' RT						115			
REMOVE EXISTING PVMT MRKING	E. LEG STOP BAR AT WINSLOW RD	1113+12.79	40.57' RT	1113+27.88	40.57' RT								16	
REMOVE EXISTING PVMT MRKING	N. LEG CROSSWALK AT WINSLOW RD	1113+55.42	CL	1113+61.42	CL						82			
24" WHITE TEMP TAPE	STOP BAR	1107+38.77	0.58' LT	1107+38.77	12.36' RT			12.94						
4" WHITE TEMP TAPE	LANE EDGE LINES	1107+55.73	12.34' RT	1109+03.76	CL	148.49								
4" WHITE TEMP TAPE	LANE EDGE LINES	1108+06.70	12.13' LT	1112+98.81	19.36' LT	498.80								
4" WHITE TEMP TAPE	LANE EDGE LINES	1109+03.76	CL	1111+98.10	CL	294.53								
4" WHITE TEMP TAPE	LANE EDGE LINES	1111+98.10	CL	1112+98.02	31.96' RT	109.07								
6" WHITE TEMP TAPE	CROSSWALK	1112+82.49	32.25' RT	1113+43.25	30.43' RT		117.85							
24" WHITE TEMP TAPE	STOP BAR	1113+13.04	42.51' RT	1113+27.95	42.51' RT			14.91						
4" WHITE TEMP TAPE	SB PARKING LANE	1113+47.27	19.60' LT	1114+70.08	20.60' LT	131.59								
24" WHITE TEMP TAPE	STOP BAR	1113+66.61	CL	1113+66.69	10.82' LT			10.87						
6" WHITE TEMP TAPE	CROSSWALK	1113+55.63	12.01' LT	1113+55.04	21.10' RT		65.72							

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PLOT DATE = 12/9/2024	DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL 73 OVER INDIAN CREEK          MOT - PAVEMENT MARKING SCHEDULE</b>			
SCALE: 1"=50'	SHEET 6	OF 8 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	11
CONTRACT NO. 64533			ILLINOIS FED. AID PROJECT	



**NOTES:**

1. ALL ADVANCED SIGNING TO FOLLOW HIGHWAY STANDARD 701321 AND TO USE 200' SIGN SPACING IN TOWN.
2. USE 100' SIGN SPACING FOR DETOUR SIGNAGE.

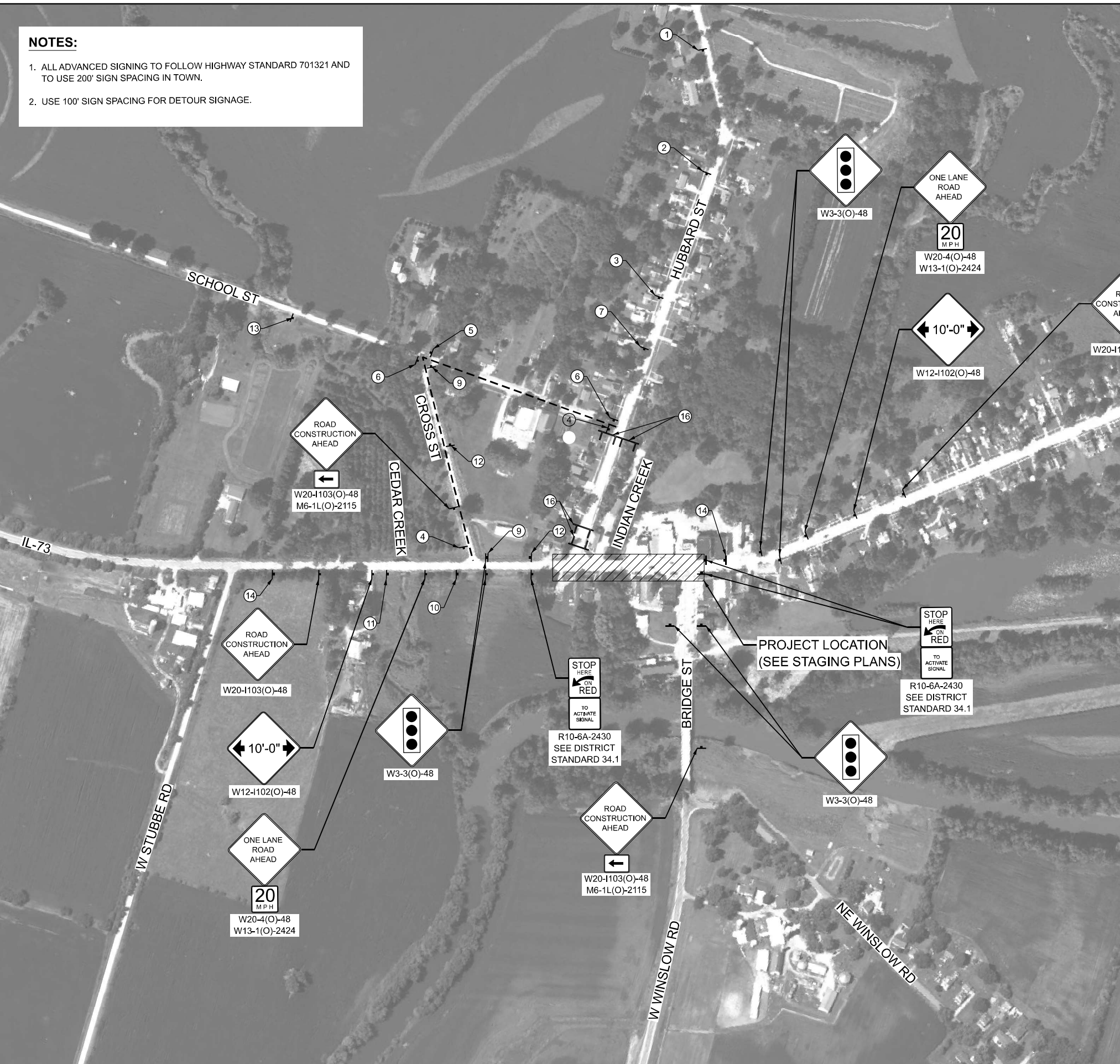
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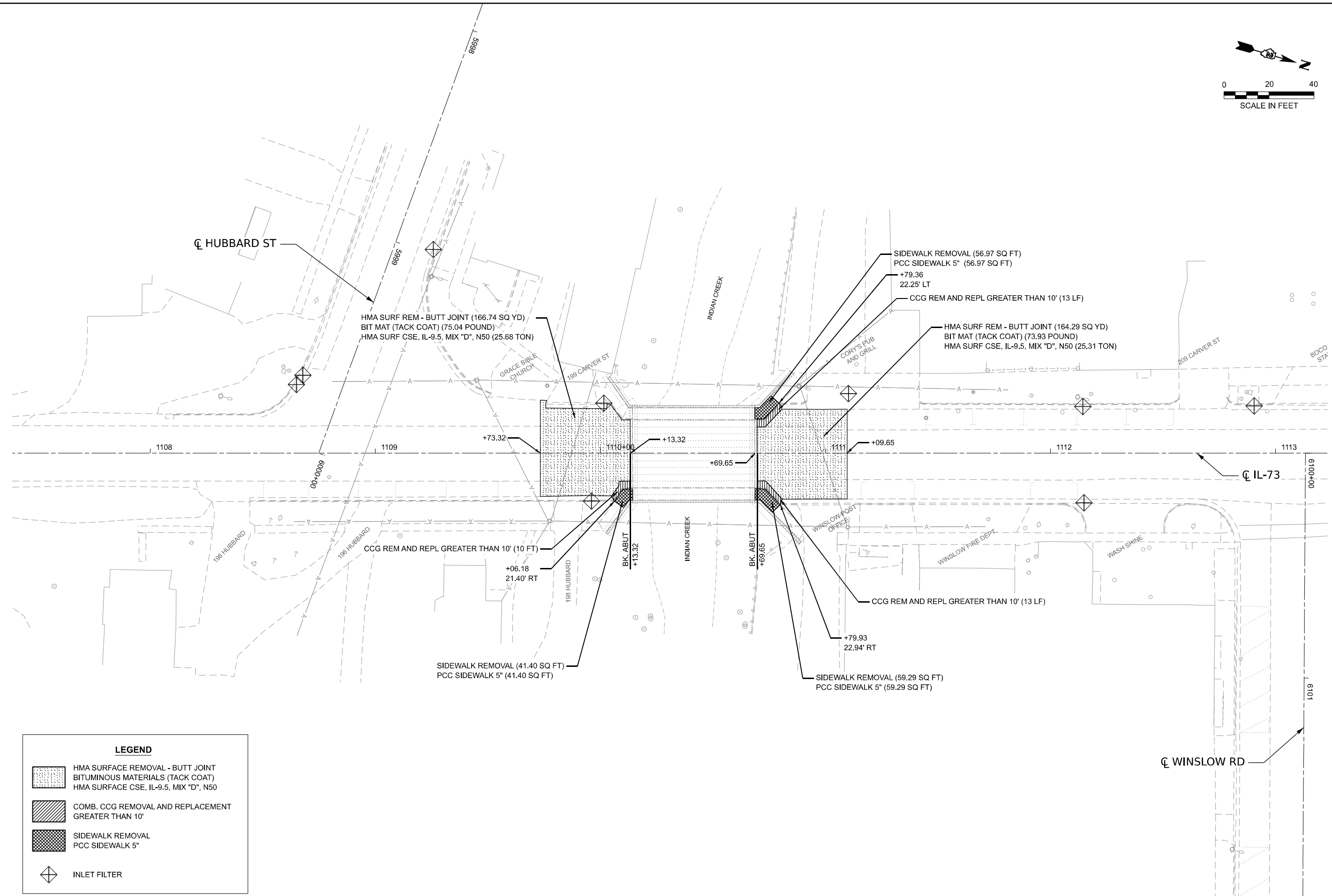
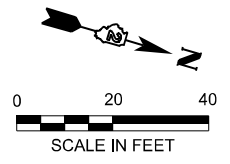
- DETOUR ROUTE
- ▨ WORK ZONE
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
- ☀ AMBER FLASHING LIGHT

**DETOUR SIGNAGE LEGEND**

①	②	③	④
⑤	⑥	⑦	⑧
⑨	⑩	⑪	⑫
⑬	⑭	⑮	⑯

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 QUIGG ENGINEERING INC





LEGEND	
	HMA SURFACE REMOVAL - BUTT JOINT BITUMINOUS MATERIALS (TACK COAT) HMA SURFACE CSE, IL-9.5, MIX "D", N50
	COMB. CCG REMOVAL AND REPLACEMENT GREATER THAN 10'
	SIDEWALK REMOVAL PCC SIDEWALK 5"
	INLET FILTER

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PLOT DATE = 12/9/2024	CHECKED - JA	REVISED -
	DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 73 OVER INDIAN CREEK**  
**ROADWAY PLAN**

SCALE: 1"=20'      SHEET 1      OF 1      SHEETS      STA.      TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	14
CONTRACT NO. 64S33				

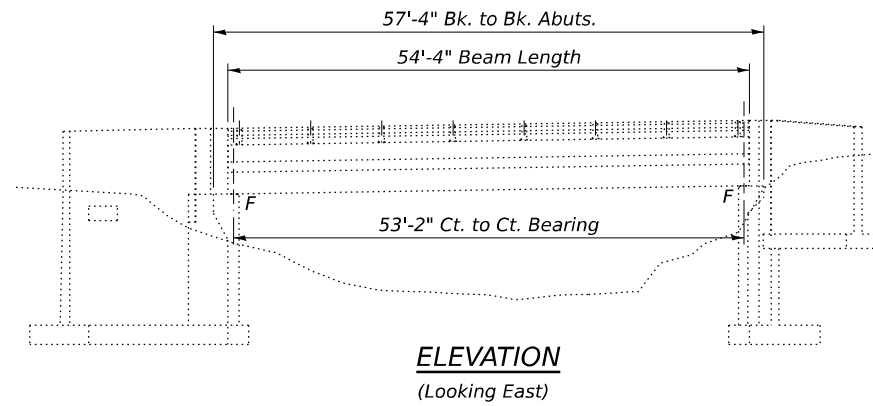
ILLINOIS FED. AID PROJECT

**INDEX OF STRUCTURE SHEETS**

- Sheet 1 General Plan & Elevation
- 2 Superstructure Details I
- 3 Superstructure Details II
- 4 Temporary Concrete Barrier
- 5 27" x 36" PPC Deck Beam
- 6 27" x 36" PPC Deck Beam Details
- 7 27" x 35" PPC Deck Beam (Beam 8)
- 8 27" x 35" PPC Deck Beam Details and Shear Key Clamp Details
- 9 Abutment Repairs
- 10 Bar Spicer Assemblies

**SCOPE OF WORK**

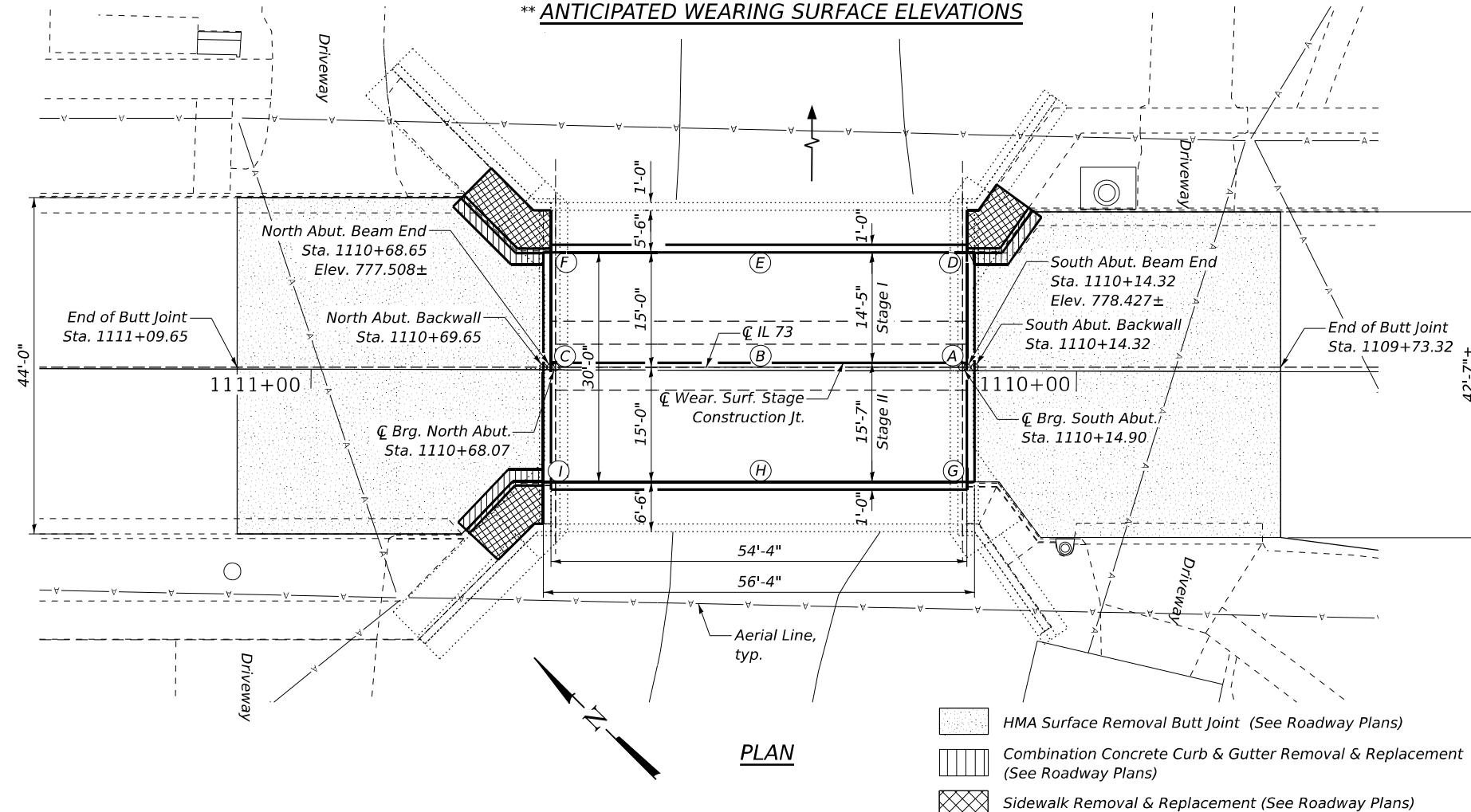
1. Remove existing HMA overlay from bridge superstructure.
2. Partially remove concrete from abutment hatchblocks and curbs.
3. Replace existing PPC Deck Beams where shown in the plans.
4. Repair dowels and keyways, and regrout at existing beams.
5. Replace concrete at abutment hatchblocks and curbs.
6. Place rebar and pour new 5" concrete overlay over bridge superstructure.
7. Perform repairs to substructure.
8. Install HMA Butt Joint at approaches.



Location	Station	Offset	Theoretical Grade Elevations	
End of Deck Beam - South Abut.	1110+14.32	00.00	778.427	(A)
Midspan	1110+41.49	00.00	778.041	(B)
End of Deck Beam - North Abut.	1110+68.65	00.00	777.508	(C)
End of Deck Beam - South Abut.	1110+14.32	15.00	778.152	(D)
Midspan	1110+41.49	15.00	778.814	(E)
End of Deck Beam - North Abut.	1110+68.65	15.00	777.329	(F)
End of Deck Beam - South Abut.	1110+14.32	-15.00	778.152	(G)
Midspan	1110+41.49	-15.00	778.814	(H)
End of Deck Beam - North Abut.	1110+68.65	-15.00	777.329	(I)

**\*\* ANTICIPATED WEARING SURFACE ELEVATIONS**

\*\* Elevations are based off of existing survey and are for information only. The new concrete overlay is to maintain a constant 5" thickness along the bridge centerline and 4 3/4" along the bridge curb, following the existing superstructure camber. The contractor shall determine the final elevations based on the existing top of beam elevations following removal of the existing HMA overlay.



**DESIGN SPECIFICATIONS**

AASHTO (1989), 1990 Interims

**DESIGN STRESSES**

**FIELD UNITS**

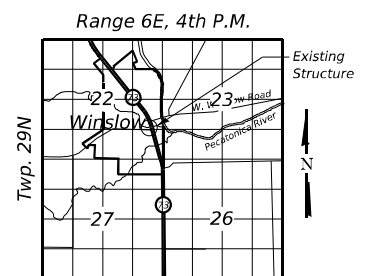
f'c = 3,500 psi  
 f'c = 5,000 psi (Concrete Wearing Surface)  
 fy = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**

f'c = 6,000 psi  
 f'ci = 5,000 psi  
 fs = 270,000 psi (1/2" Ø low lax. strands)  
 fsi = 201,960 psi (1/2" Ø low lax. strands)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
HMA Surface Removal (Deck)	Sq. Yd.	188
Removal of Existing PPC Deck Beam	Sq. Ft.	489
Concrete Removal	Cu. Yd.	5.8
Keyway Repair	Foot	191
Grout Repair	Foot	23
Dowel Repair	Each	9
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	489
Portland Cement Mortar Fairing Course	Foot	544
Reinforcement Bars, Epoxy Coated	Pound	2,837
Bar Splicers	Each	65
Concrete Wearing Surface 5"	Sq. Yd.	188
Concrete Superstructure	Cu. Yd.	5.8
Protective Coat	Sq. Yd.	207
Structural Repair of Concrete Depth Equal To or Less Than 5"	Sq. Ft.	44
Epoxy Crack Injection	Foot	62
Bridge Deck Grooving	Sq. Yd.	175



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**

**F.A.S. 1087 (IL 73) OVER**

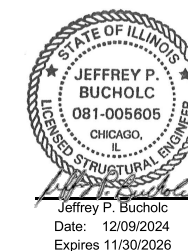
**INDIAN CREEK**

**SECTION (106 BR)BDR**

**STEPHENSON COUNTY**

**STATION 1110+41.49**

**STRUCTURE NUMBER: 089-0030**



**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 089-0030**

SHEET 1 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	15
CONTRACT NO. 64S33				

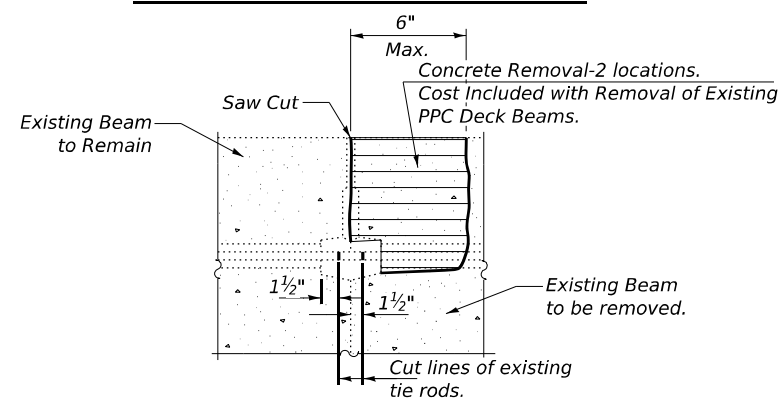
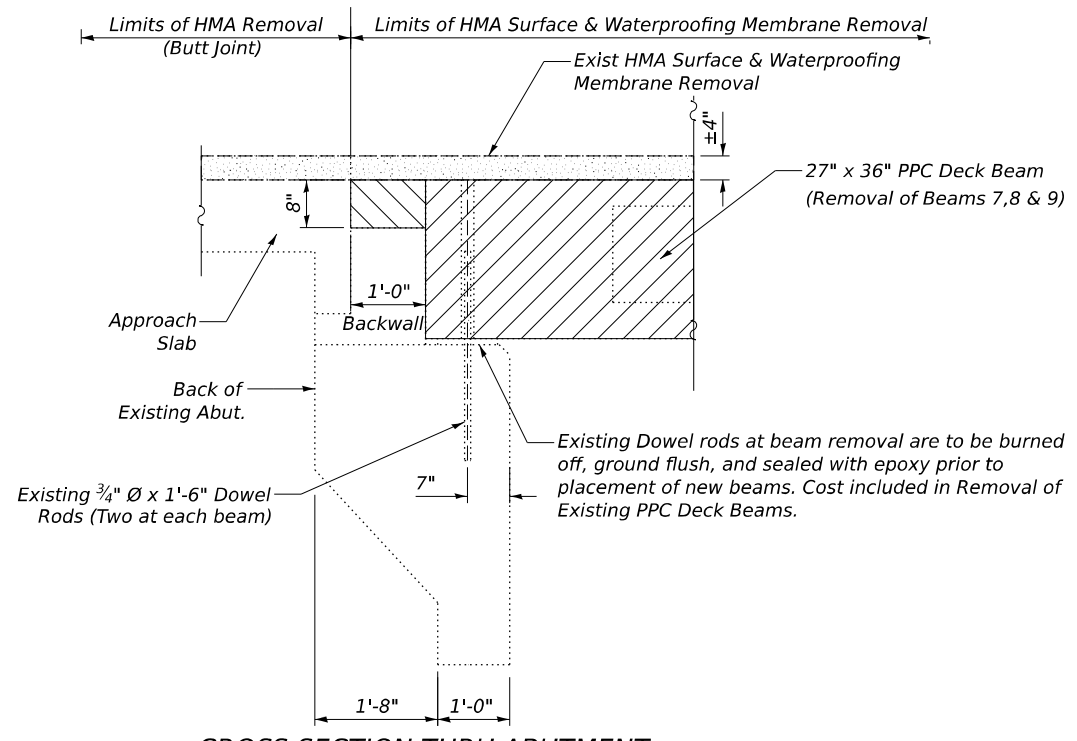
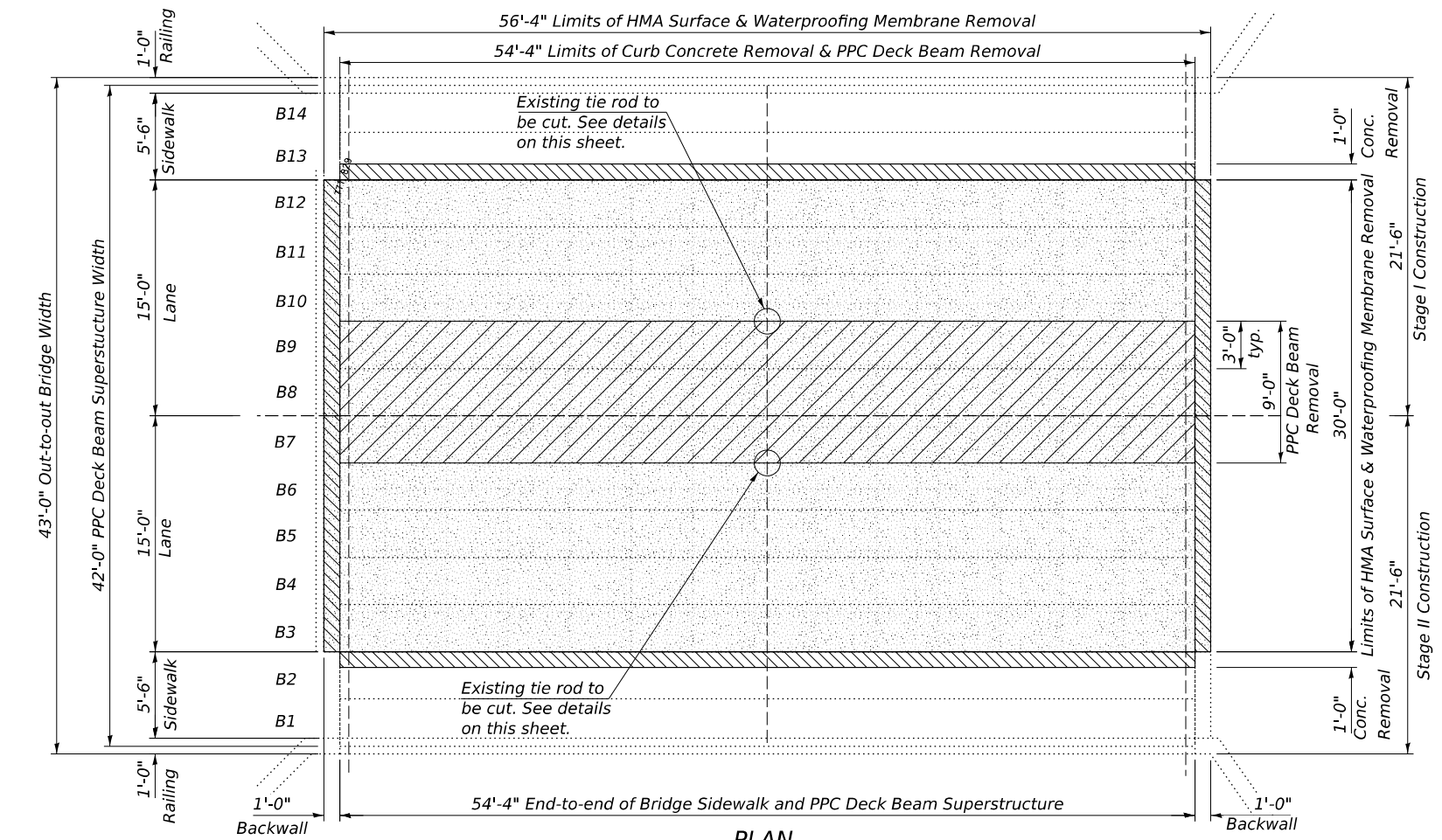
ILLINOIS FED. AID PROJECT



USER NAME =	DESIGNED -	REVISIONS -
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JPB	JPB	JPB
SKM	SKM	SKM
JRT	JRT	JRT

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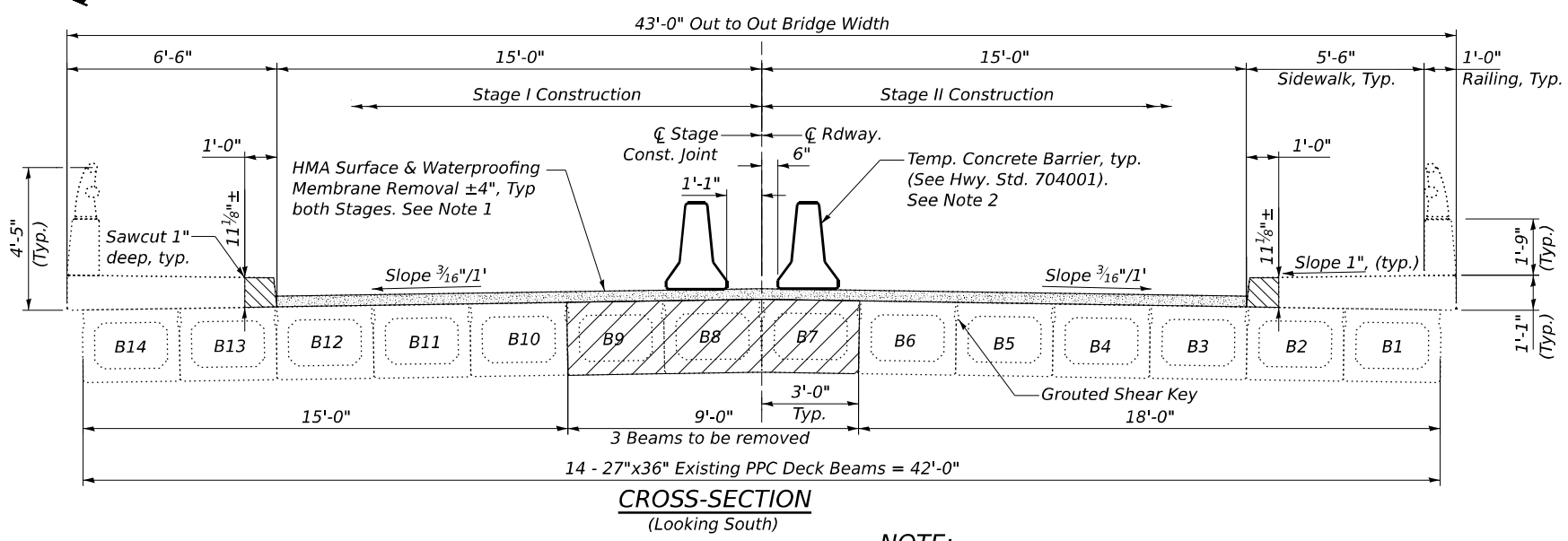
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**BEAM REMOVAL DETAILS AT TRANSVERSE TIES**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	489
Concrete Removal	Cu. Yd.	5.8
HMA Surface Removal (Deck)	Sq. Yd.	188



**NOTE:**

1. Contractor shall remove entire HMA Surface Course and Waterproofing Membrane System. Survey appears to show the HMA surface course and membrane thickness varying from 3 1/2" to 4 3/4" at the four corners. The Contractor shall field verify thickness.

2. Temporary Concrete Barrier is not allowed to be pinned to the new concrete wearing surface constructed in Stage I.

**NOTE:**

Existing reinforcement shall be cleaned, straightened, and incorporated into new construction. Cost included with Concrete Removal.

Existing dimension shall be verified in field.

For quantity of Temporary Concrete Barrier, See Roadway Plans

- LEGEND**
- PPC Deck Beams to be Removed
  - Concrete Removal
  - HMA Surface Removal



USER NAME =	DESIGNED - JRT/WSB	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

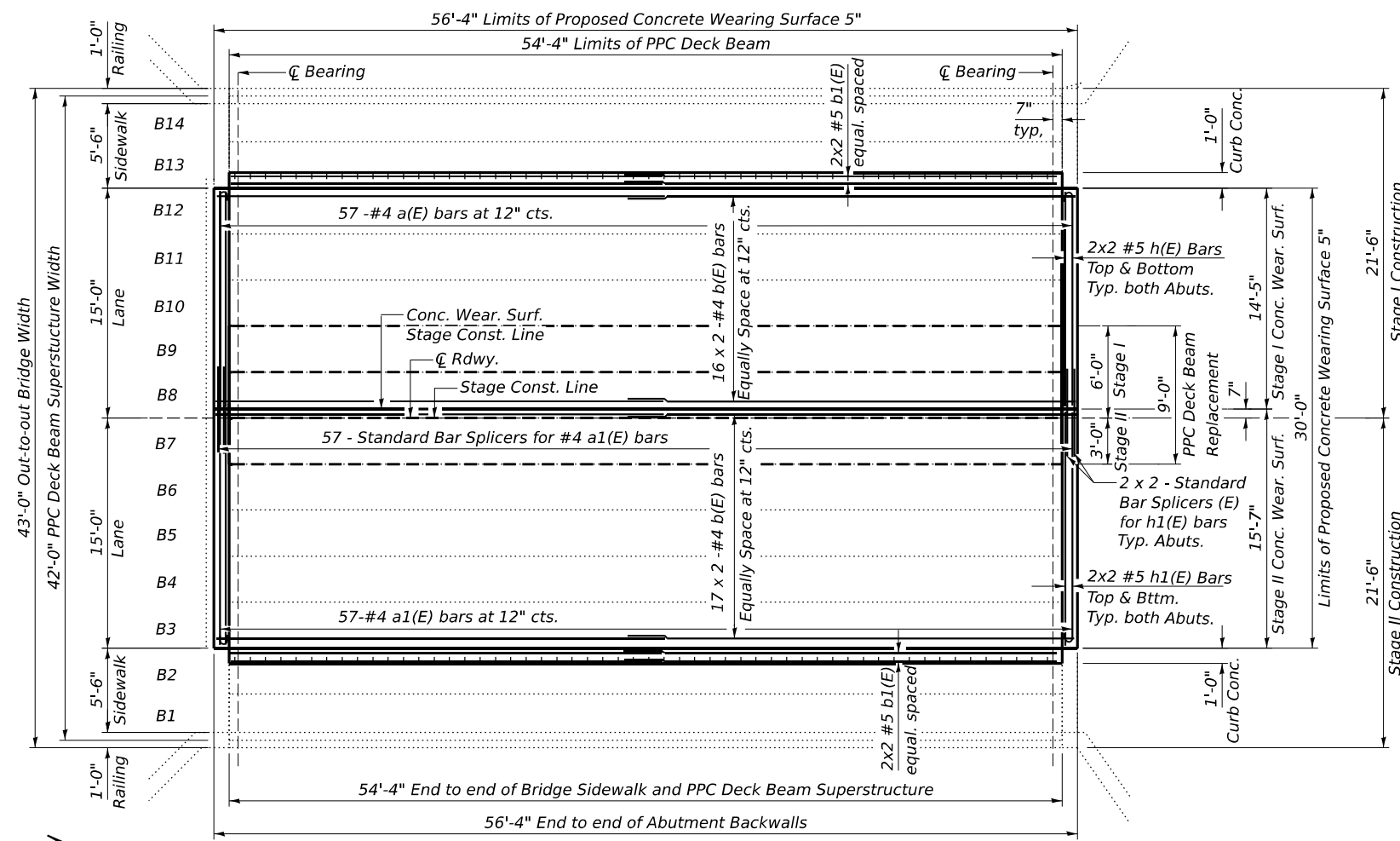
**SUPERSTRUCTURE DETAILS - I  
 STRUCTURE NO. 089-0030**

SHEET 2 OF 10 SHEETS

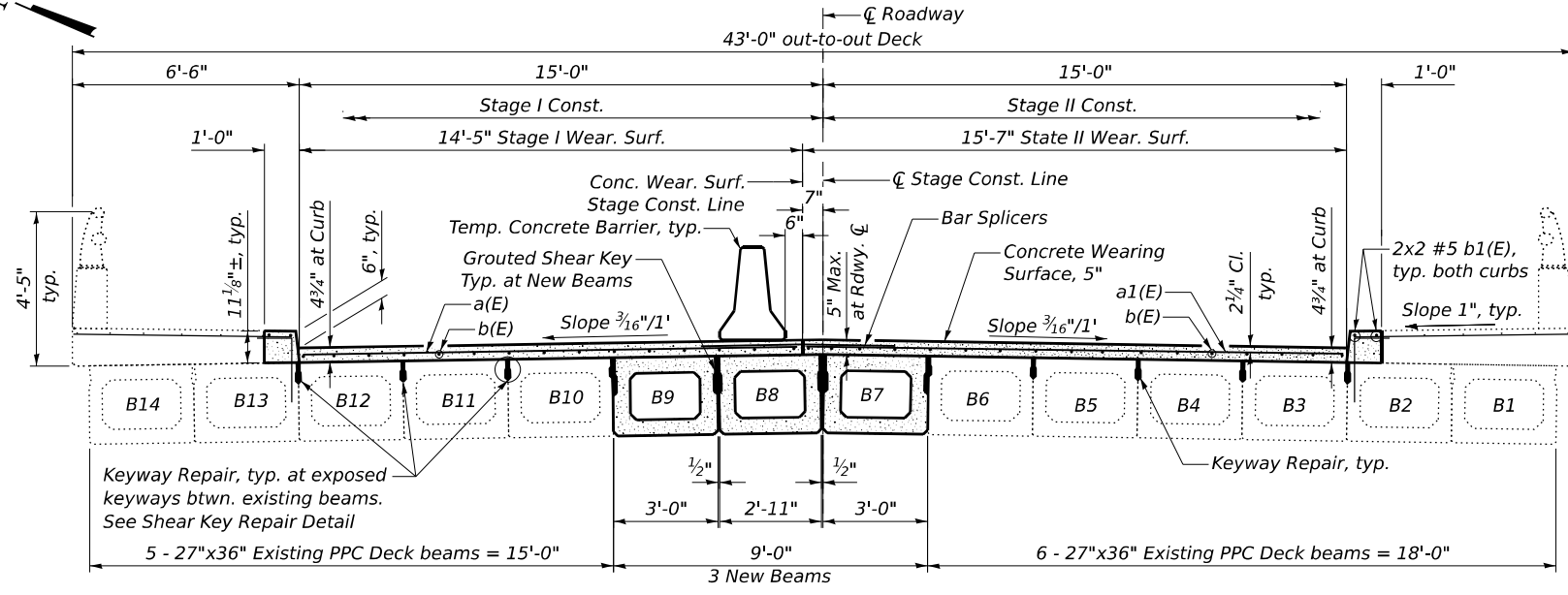
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1087	(106 BR)BDR	STEPHENSON	34	16
CONTRACT NO. 64S33			ILLINOIS FED. AID PROJECT	



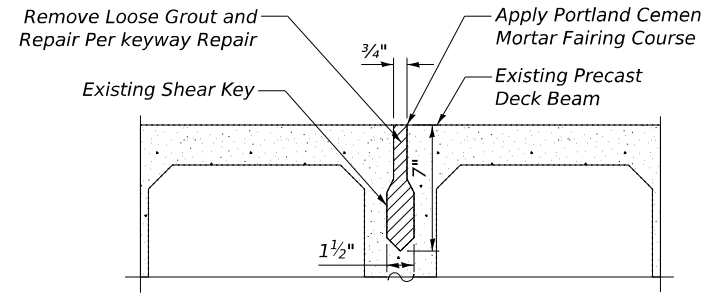
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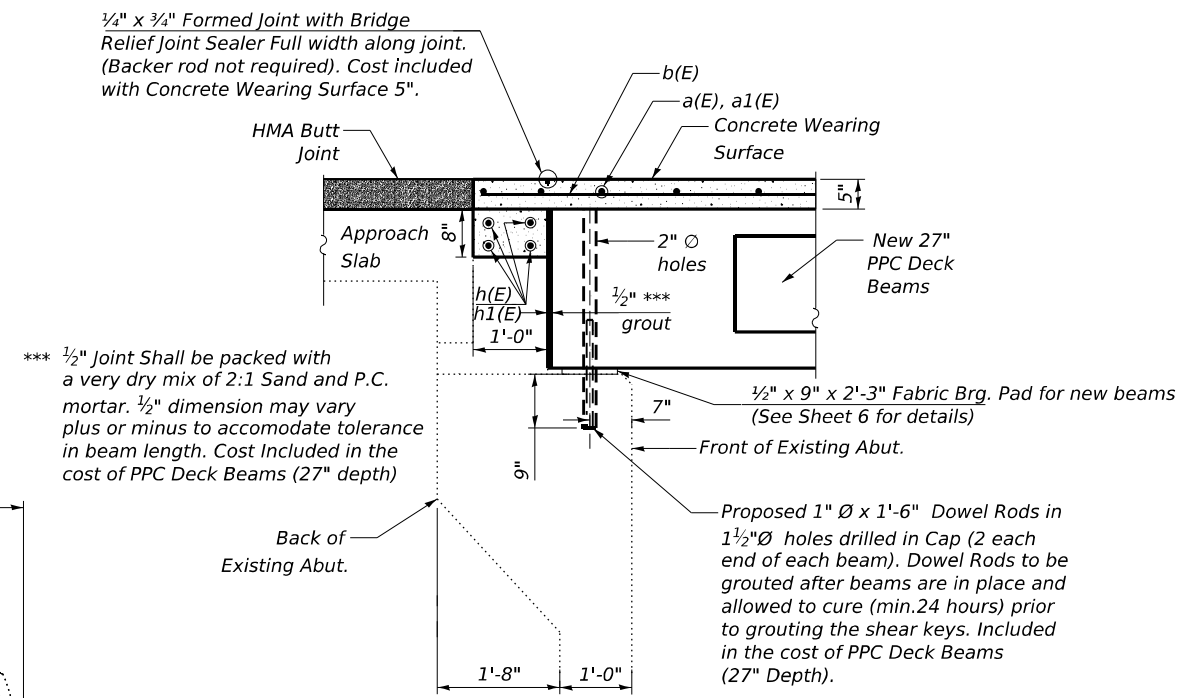
**PLAN**



**CROSS SECTION**  
(Looking South)



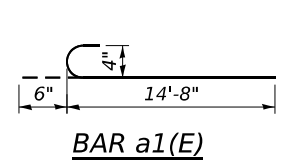
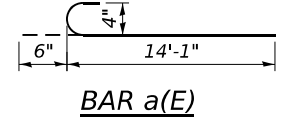
**SHEAR KEY REPAIR DETAIL**



**SECTION THRU ABUTMENT**  
(Shown at new beams)

**BILL OF MATERIAL**

Bar	Size	No.	Length	Shape	
a(E)	#4	57	14'-7"		
a1(E)	#4	57	15'-2"		
b(E)	#4	17	56'-0"		
b1(E)	#5	8	27'-10"		
h(E)	#5	4	13'-11"		
h1(E)	#5	4	14'-6"		
Portland Cement Mortar Fairing Course				Foot	544
Concrete Wearing Surface, 5"				Sq. Yd.	188
Reinforcement Bars, Epoxy Coated				Pound	2,837
Concrete Superstructure				Cu. Yd.	5.8
Protective Coat				Sq. Yd.	207
Bar Splicers				Each	65
Dowel Repair				Each	9
Grout Repair				Foot	23
KeyWay Repair				Foot	191
Bridge Deck Grooving				Sq. Yd.	175



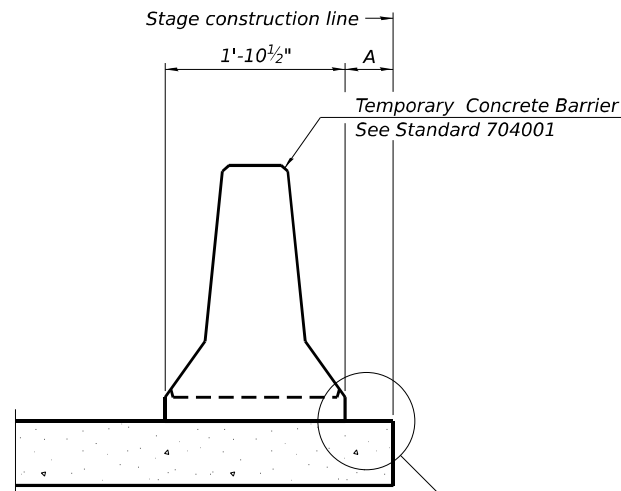
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	CHECKED - JRT	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - II**  
**STRUCTURE NO. 089-0030**

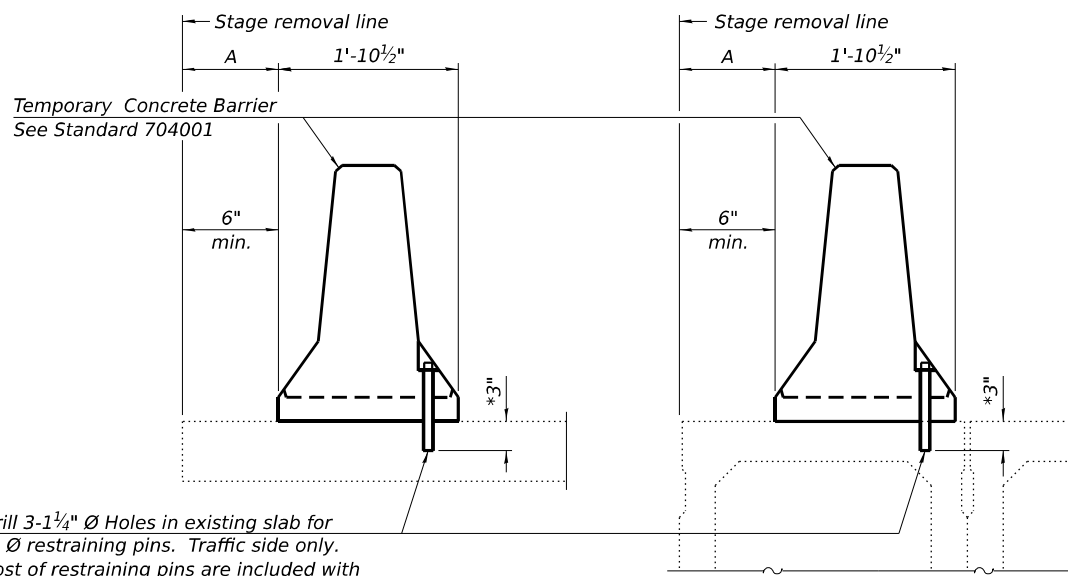
SHEET 3 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)/BDR	STEPHENSON	34	17
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**

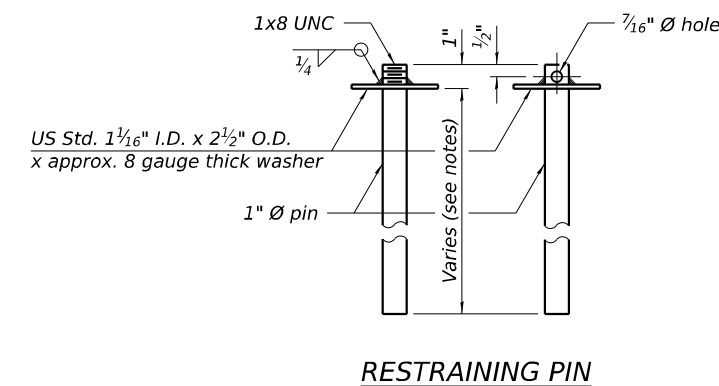


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

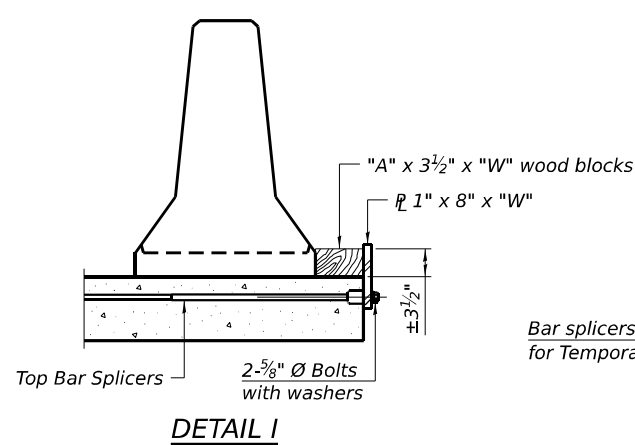
**EXISTING DECK BEAM**

\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

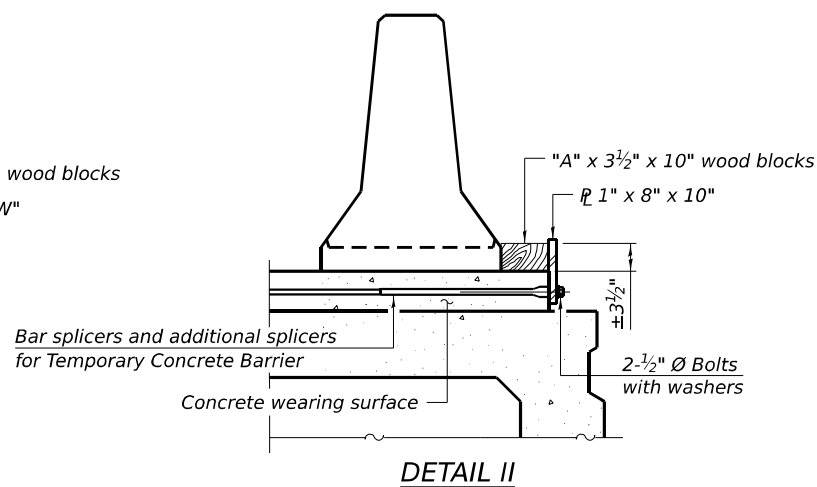


**RESTRAINING PIN**

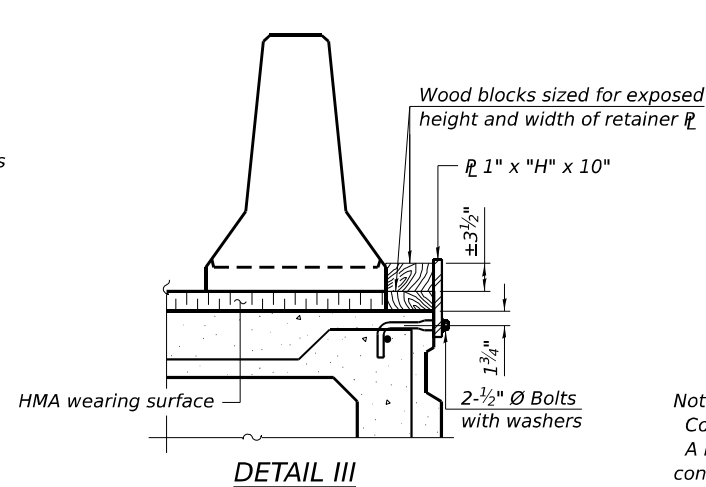
**SECTIONS THROUGH SLAB OR DECK BEAM**



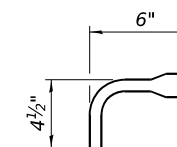
**DETAIL I**



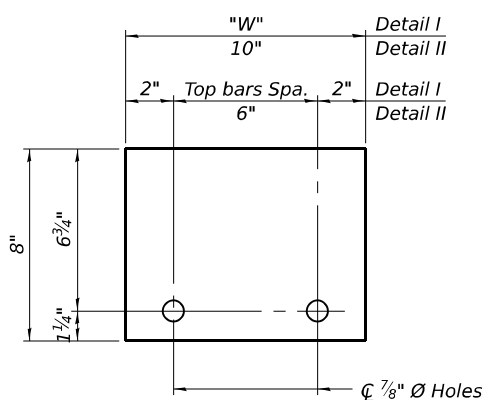
**DETAIL II**



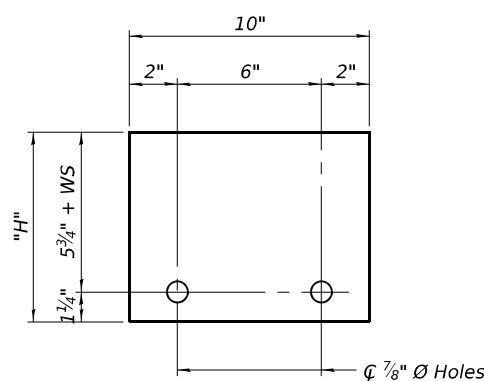
**DETAIL III**



**BAR SPLICER FOR #4 BAR - DETAIL III**



**STEEL RETAINER 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER 1" x "H" x 10"**  
(Detail III)

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate center of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

**Detail I - Installation for a new bridge deck or bridge slab.**  
**Detail II - Installation for a new deck beam with an initial concrete wearing surface.** Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present.** The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

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PLOT SCALE =	CHECKED - JPB	REVISED -
PLOT DATE =	DRAWN - SKM	REVISED -
	CHECKED - JRT	REVISED -

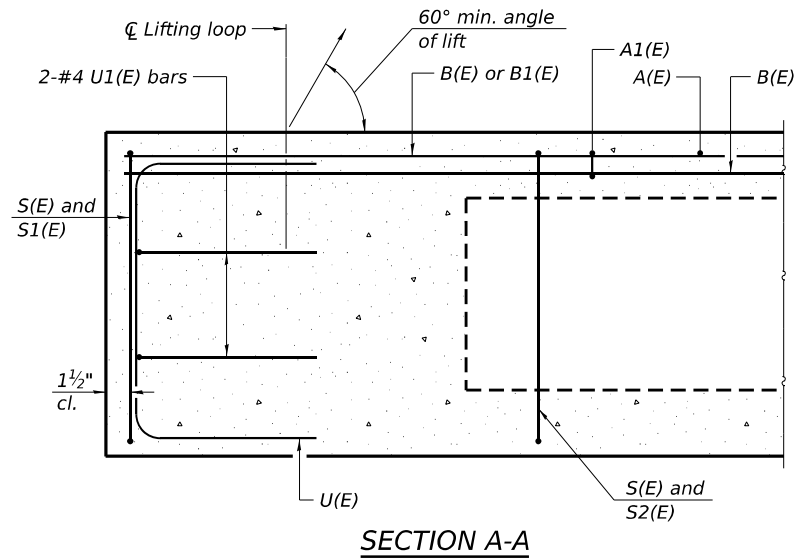
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 089-0030**

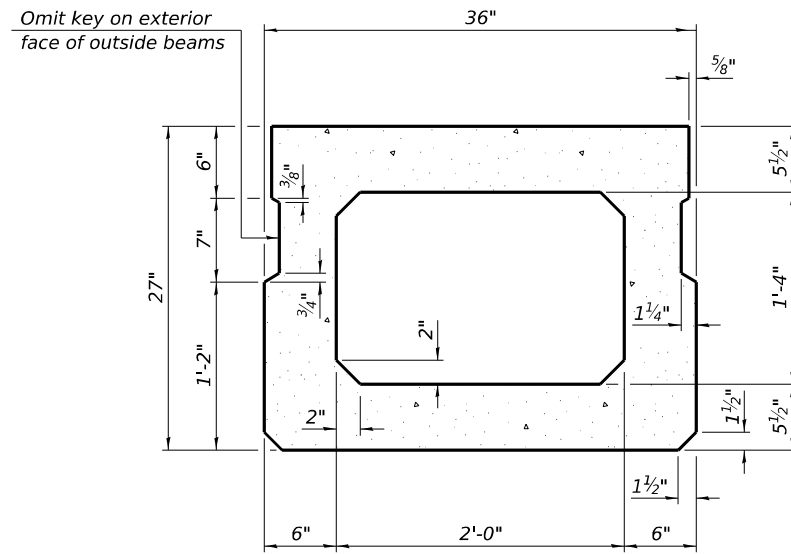
SHEET 4 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64S33				
ILLINOIS		FED. AID PROJECT		

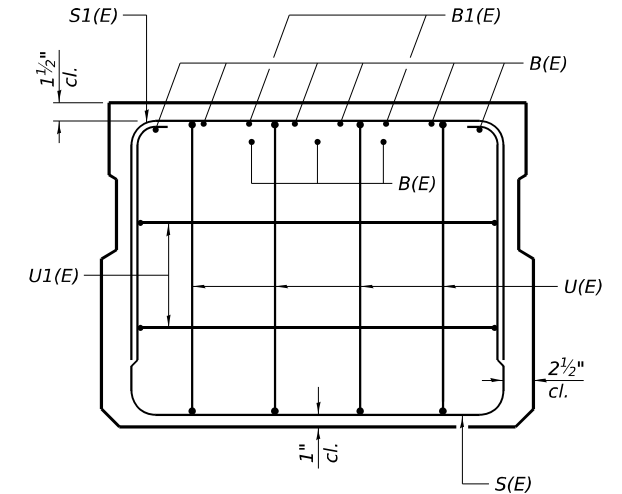
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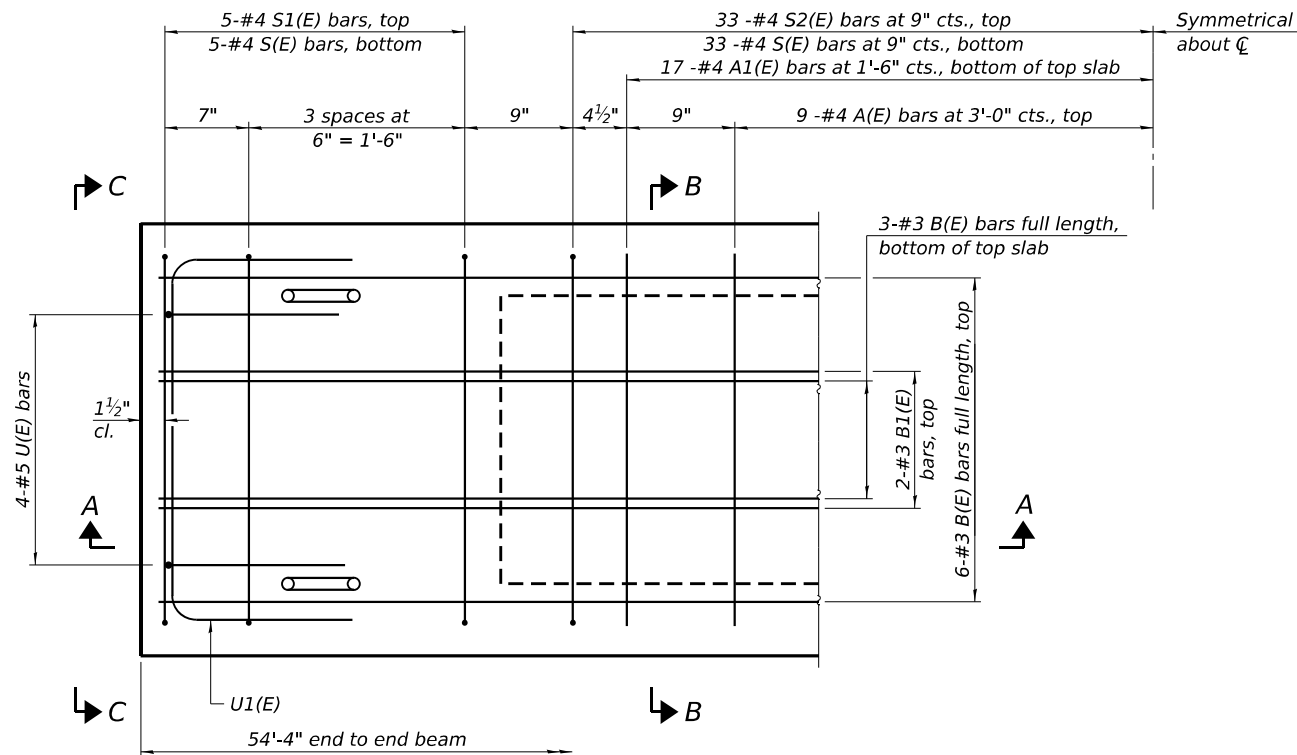
**SECTION A-A**



**SECTION B-B**  
(Showing dimensions)

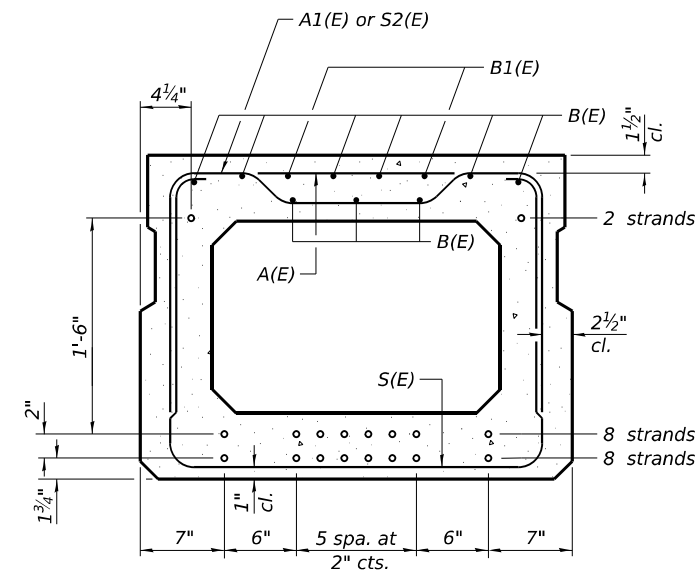


**VIEW C-C**



**PLAN VIEW - BEAM 7 & 9**  
(For Beam 8 Plan, see Sheet 7)

Note:  
 Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



**SECTION B-B**  
(Showing reinforcement and permissible strand locations)

Note:  
 Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-7"	—
A1(E)	33	#4	2'-10"	~
B(E)	6	#3	54'-0"	—
B1(E)	4	#3	10'-0"	—
S(E)	74	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	66	#4	6'-2"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-0"	C

Note:  
 See Sheet 6 for additional details and Bill of Material.

**MINIMUM BAR LAP**  
 #3 bar = 1'-6"

PD-2736-0

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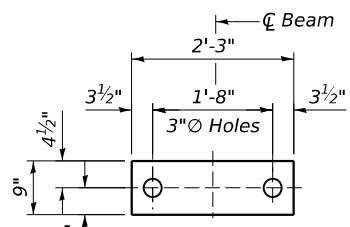
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PLOT DATE =	DRAWN - SKM	REVISED -
	CHECKED - JRT	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM - BEAMS 7 & 9  
 STRUCTURE NO. 089-0030

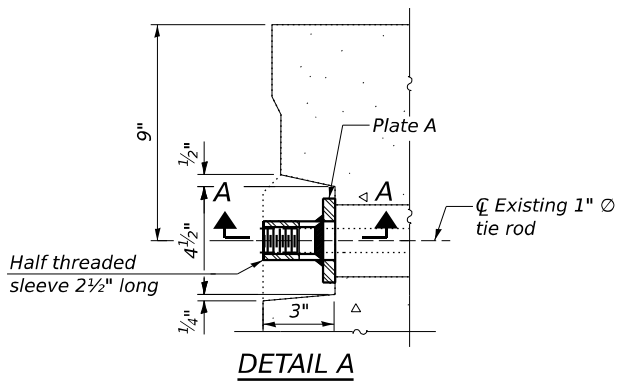
SHEET 5 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S33	

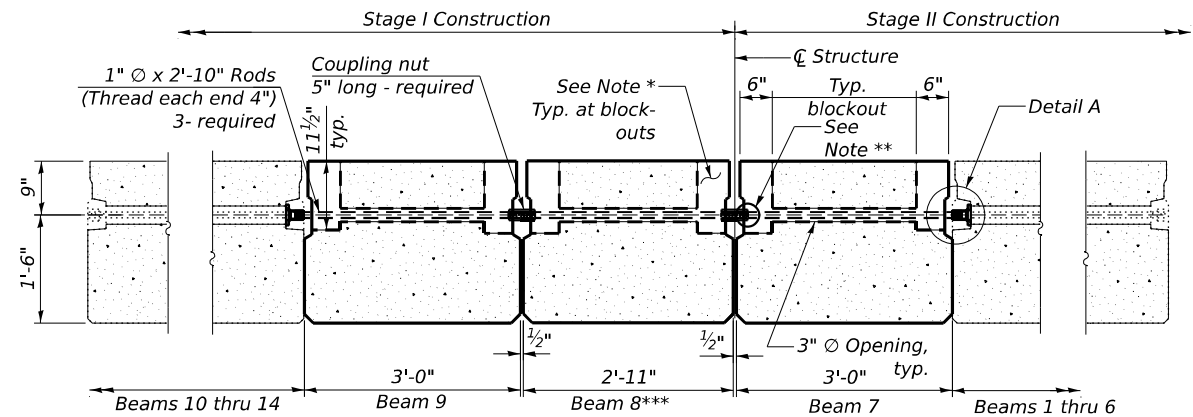


Notes:  
All bearing pads shall be 1/2" thick.  
Omit holes when using expansion bearings.  
Expansion bearing pads shall be bonded to the substructure.

**FIXED FABRIC BEARING PAD**  
(Interior)



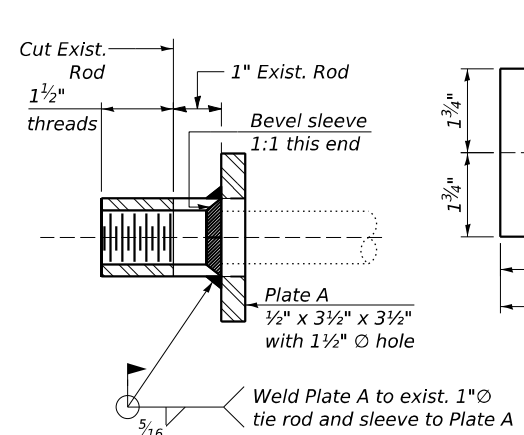
**DETAIL A**



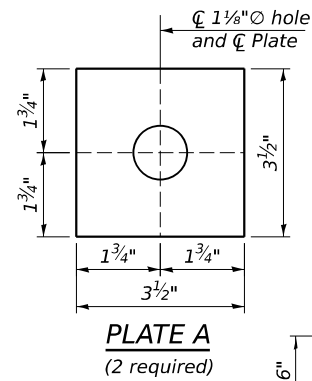
**TRANSVERSE TIE ASSEMBLY**  
(At Beam replacement - Looking South)

Note \*  
6" x 6" x 11 1/2" Blockout to be filled with non-shrink grout as specified in the Special Provision Concrete Deck Beams (Min. compressive strength at 7 days = 6000 psi) after beams have been installed. Cost shall be included in the cost of "Precast Prestressed Concrete Deck Beams (27" Depth)

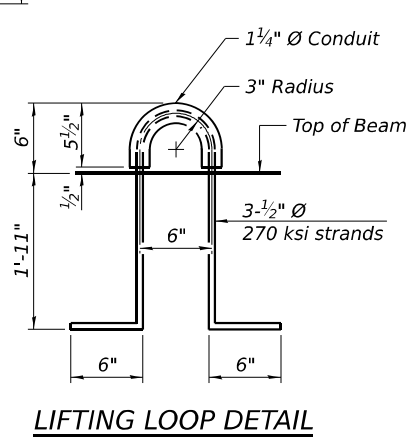
Note \*\*  
Provide 6" thread at this end of Beam 7 tie rod to facilitate installation of the tie rod with the beam and full engagement of coupler when tightening  
\*\*\* Beam 8 Details, See Sheets 7 & 8



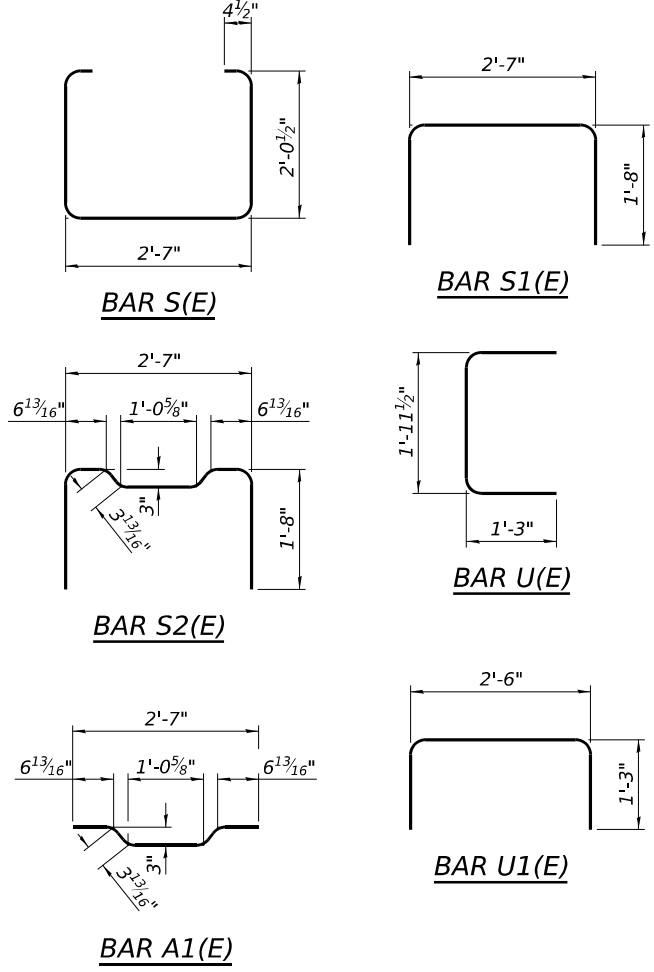
**SECTION A-A**  
(2 required)



**PLATE A**  
(2 required)

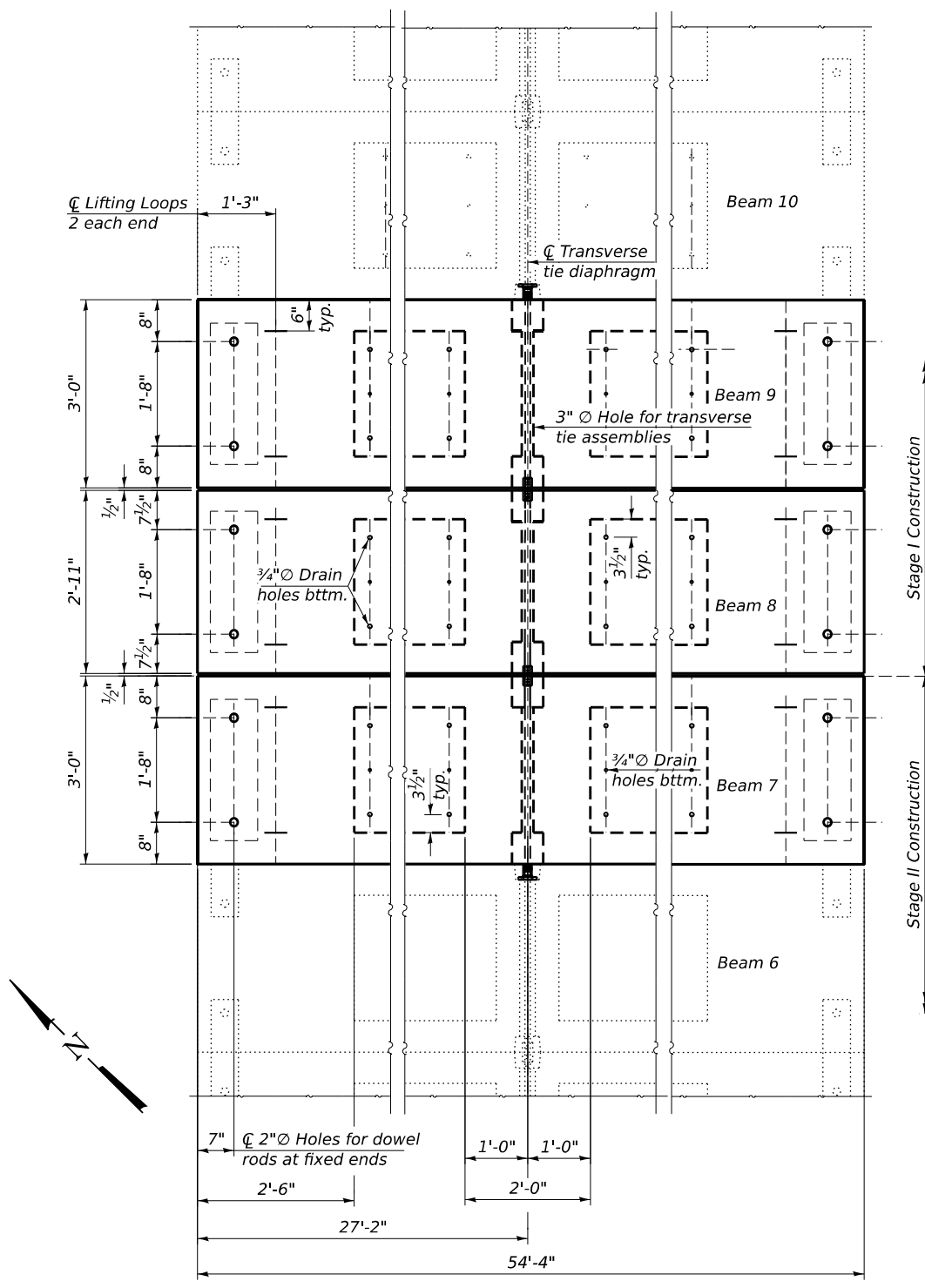


**LIFTING LOOP DETAIL**



**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	326
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**PLAN VIEW**

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

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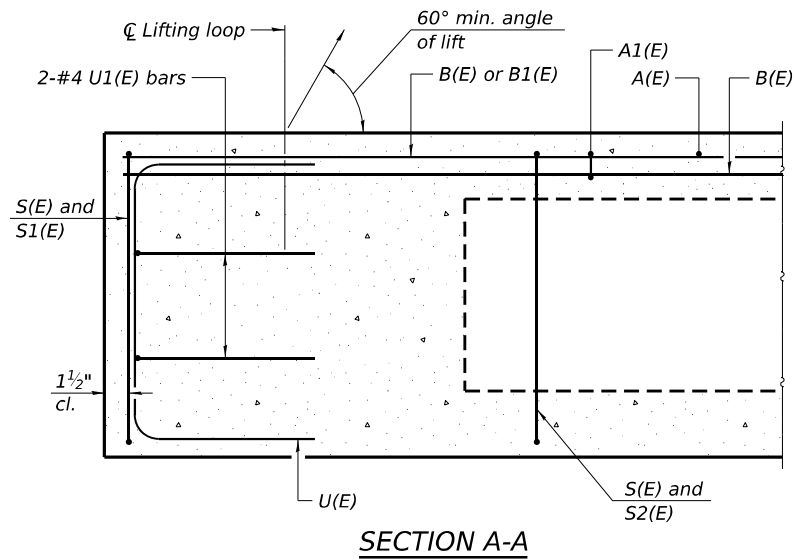
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**27" x 36" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 089-0030**

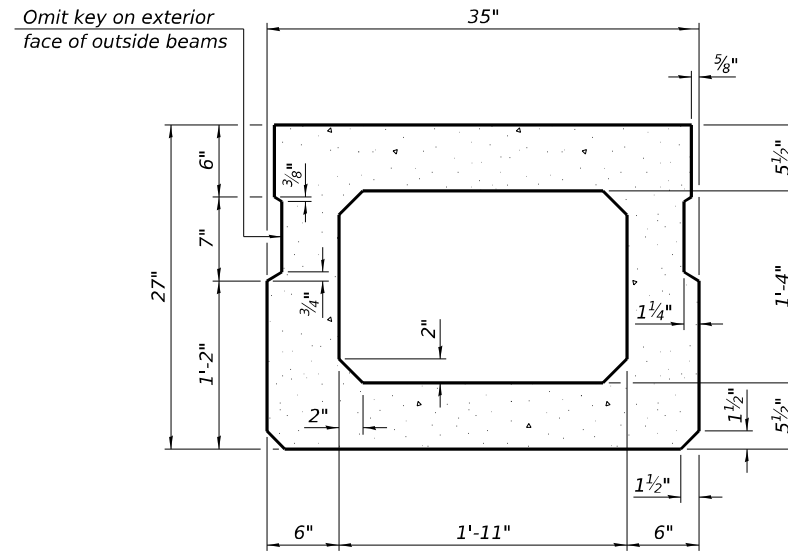
SHEET 6 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	20
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

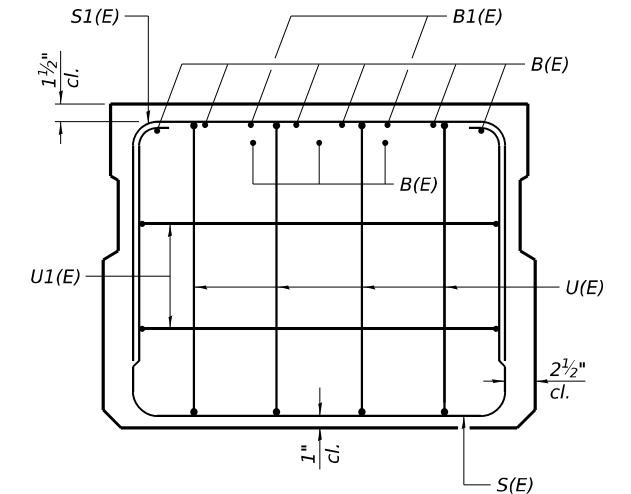
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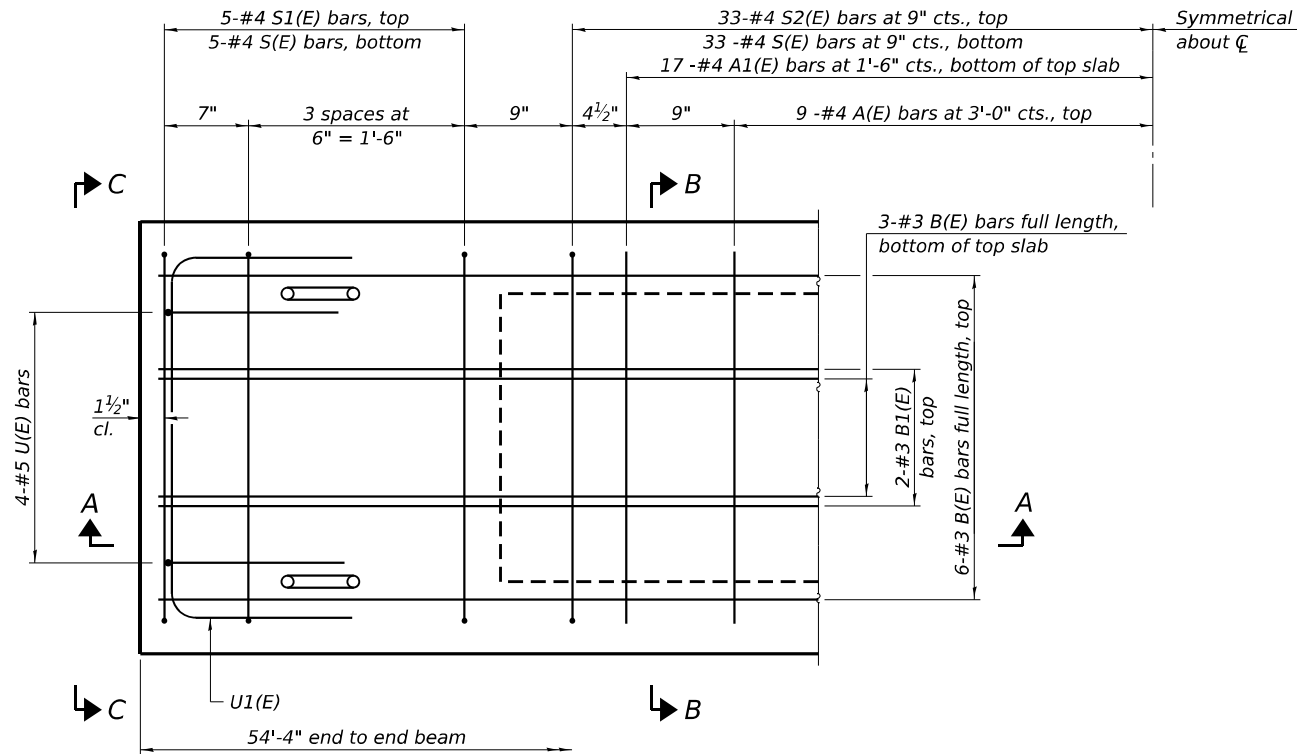
SECTION A-A



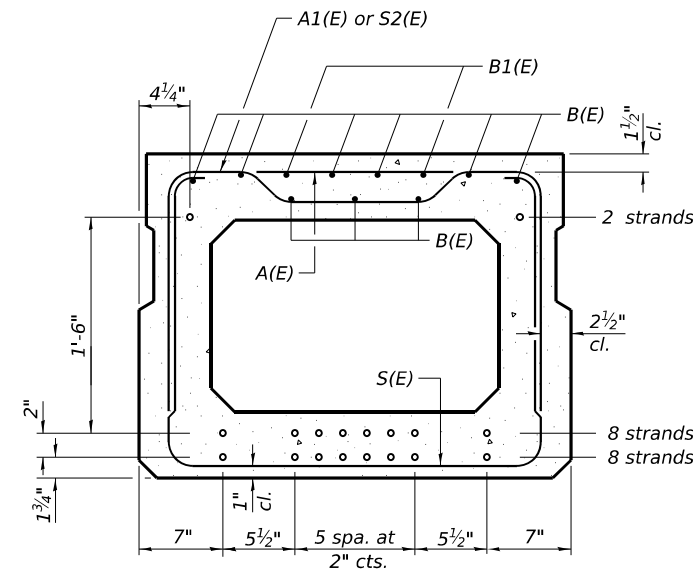
SECTION B-B  
 (Showing dimensions)



VIEW C-C



PLAN VIEW - BEAM 8



SECTION B-B  
 (Showing reinforcement and permissible strand locations)

**BAR LIST**  
**ONE BEAM ONLY - BEAM 8**  
 (For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-6"	—
A1(E)	33	#4	2'-9"	—
B(E)	6	#3	54'-0"	—
B1(E)	4	#3	10'-0"	—
S(E)	74	#4	7'-4"	U
S1(E)	8	#4	5'-10"	U
S2(E)	66	#4	6'-1"	U
U(E)	8	#5	4'-6"	U
U1(E)	4	#4	5'-0"	U

Note:  
 See Sheet 8 for additional bar details and Bill of Material.

See Sheet 6 for Plan View, Fabric Bearing Pad, and Section with tie Detail

**MINIMUM BAR LAP**  
 #3 bar = 1'-6"

Note:  
 Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

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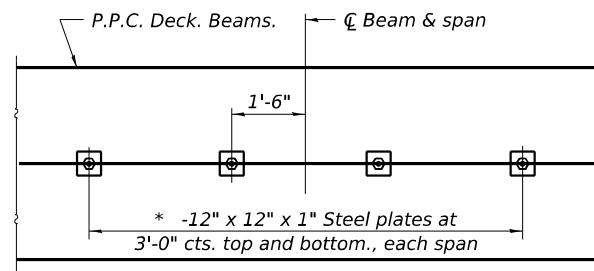
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

27" x 35" PPC DECK BEAM (BEAM 8)  
 STRUCTURE NO. 089-0030

SHEET 7 OF 10 SHEETS

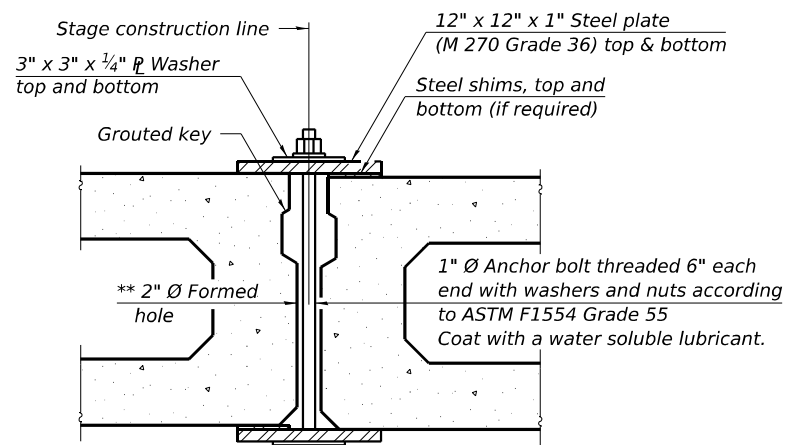
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1087	(106 BR)/BDR	STEPHENSON	34	21
CONTRACT NO. 64S33				

ILLINOIS FED. AID PROJECT

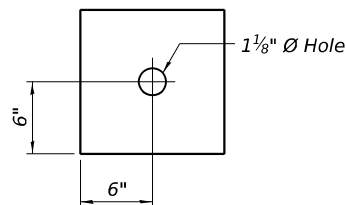


**PLAN**

\*Space plates to miss temporary bridge rail posts.



**SECTION**

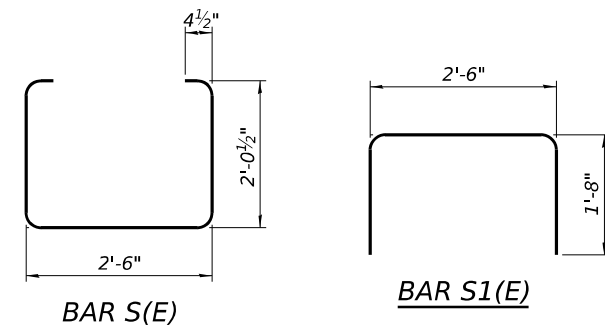


**CLAMPING PLATE**

**SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.**

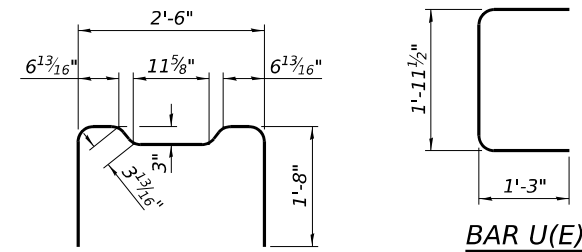
See stage construction details for traffic lanes.

\*\* Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.



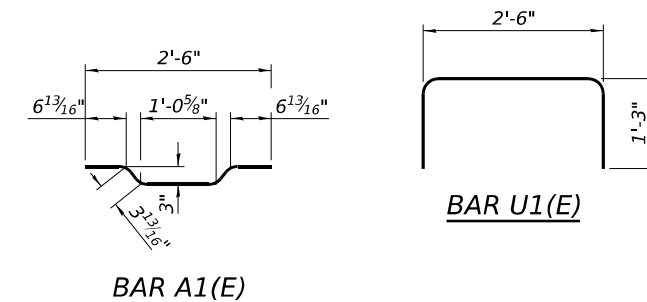
**BAR S(E)**

**BAR S1(E)**



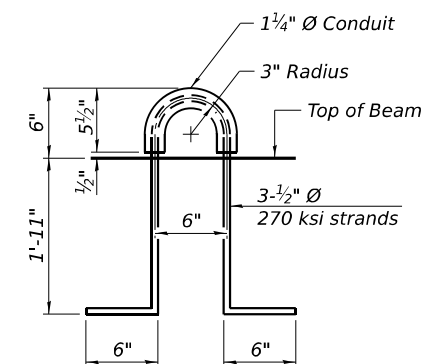
**BAR S2(E)**

**BAR U(E)**



**BAR A1(E)**

**BAR U1(E)**



**LIFTING LOOP DETAIL**

**NOTES FOR 27" x 35" PPC DECK BEAM (BEAM 8)**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

For Plan View, Fabric Bearing Pad Detail, and cross-section with tie, See Sheet 6.

**BILL OF MATERIAL - BEAM 8**

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	163
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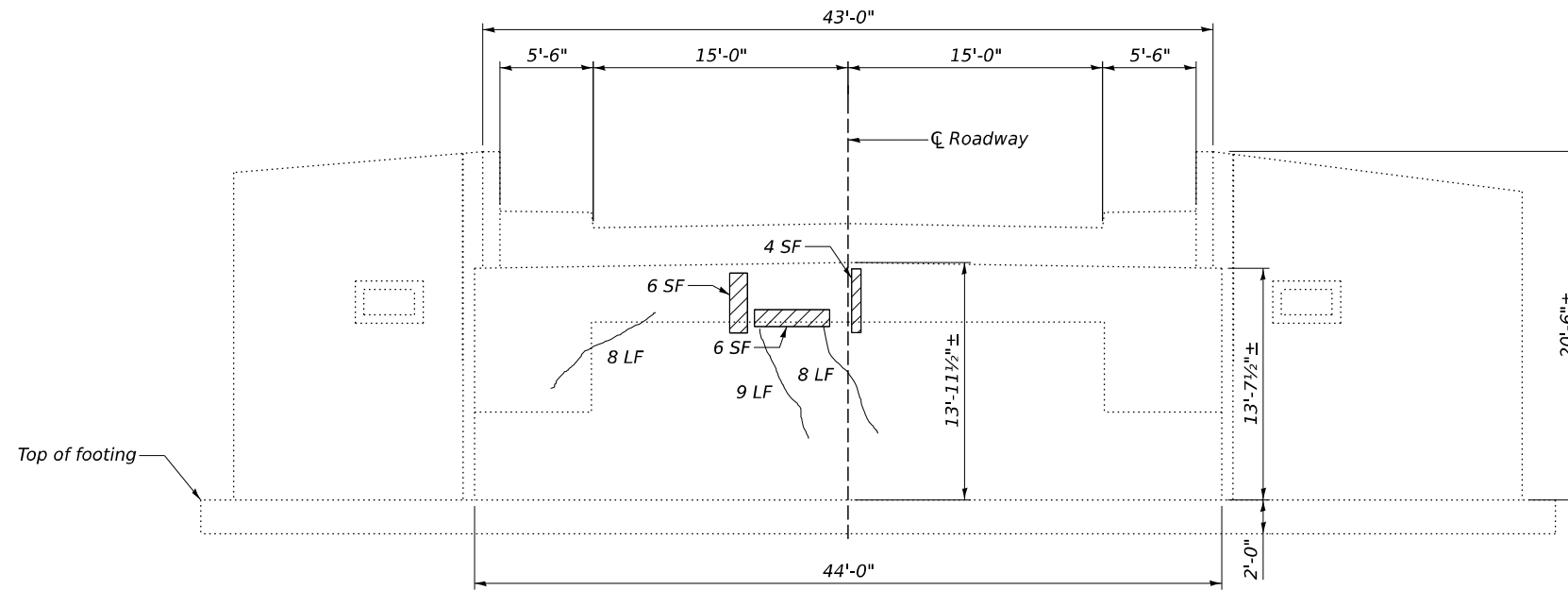
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STATE OF ILLINOIS  
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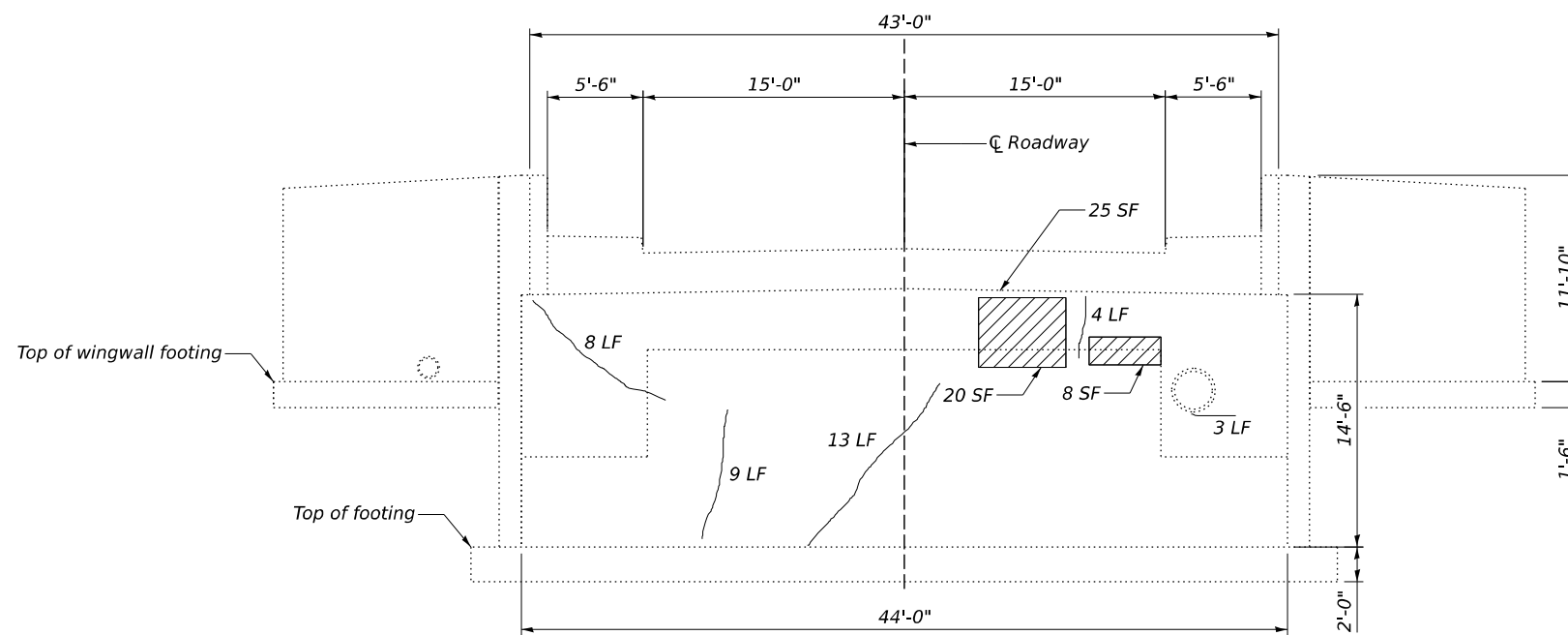
27" x 35" PPC DK. BM. DETAILS AND SHEAR KEY CLAMP DETAILS  
STRUCTURE NO. 089-0030

SHEET 8 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	22
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				



**ELEVATION - NORTH ABUTMENT**  
(Looking North)



**ELEVATION - SOUTH ABUTMENT**  
(Looking South)

**NOTE:**

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structure Repair of Concrete (Depth equal to or less than 5 Inches)	Sq. Ft.	44
Epoxy Crack Injection	Foot	62

**LEGEND**

Structure Repair of Concrete  
(Depth ≤ 5")

Epoxy Crack Sealing

SF - Square Foot  
LF - Linear Foot

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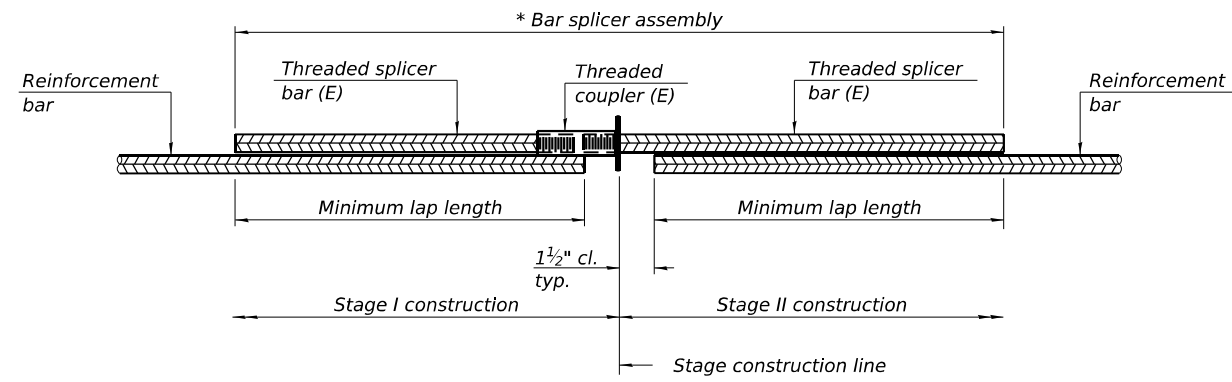
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PLOT DATE =	CHECKED - JRT	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIRS**  
**STRUCTURE NO. 089-0030**

SHEET 9 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	23
			CONTRACT NO. 64S33	
		ILLINOIS FED. AID PROJECT		



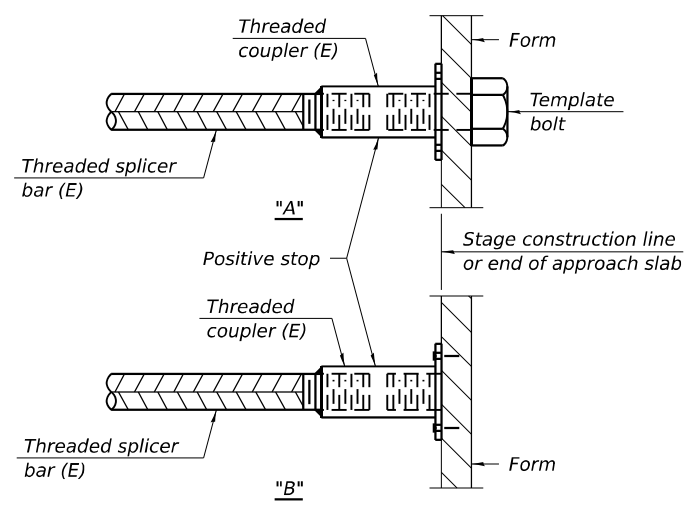
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

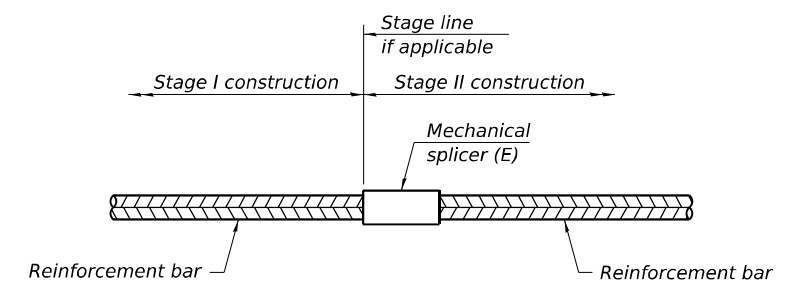
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Concrete Wearing Surface a(E) to a1(E)	#4	57	2'-5"
Concrete Abut. Hatch h(E) to h1(E)	#5	8	3'-4"



**INSTALLATION AND SETTING METHODS**

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



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1 5-15-2023



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

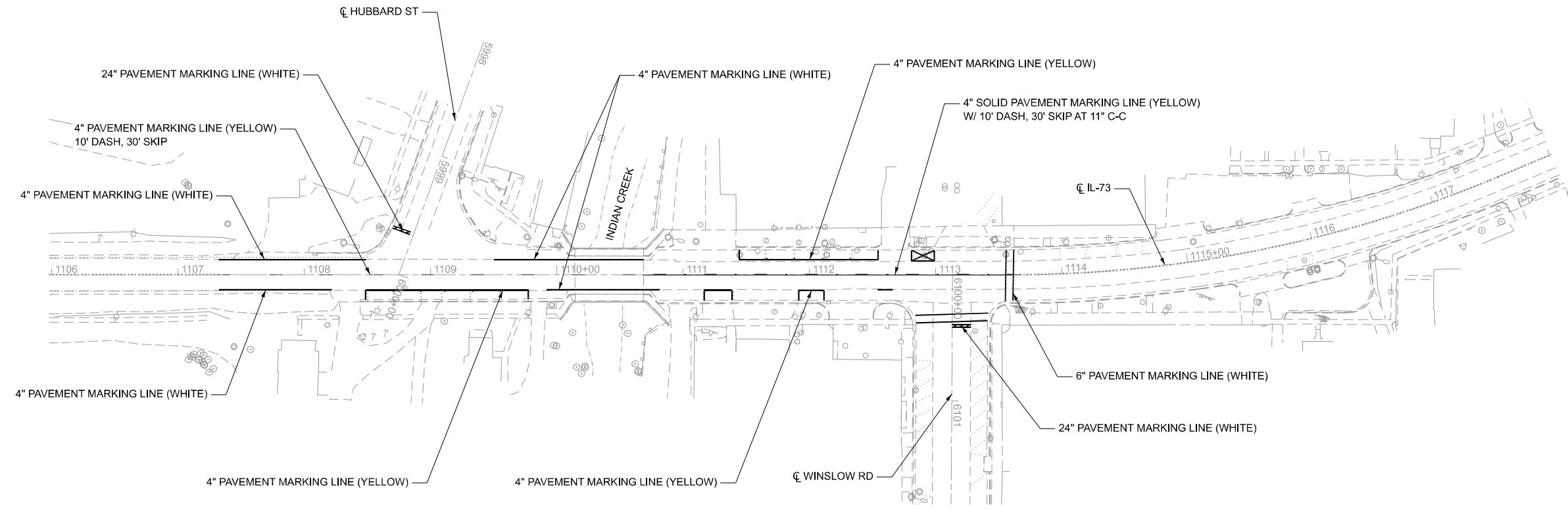
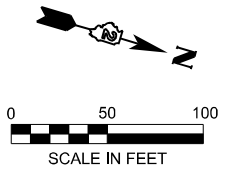
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 089-0030

SHEET 10 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	24
CONTRACT NO. 64S33				

ILLINOIS FED. AID PROJECT





**SCHEDULE OF PERMANENT PAVEMENT MARKING**

LOCATION	BEGIN		END		PERMANENT PAVT. MARKINGS			
	STA	OFFSET	STA	OFFSET	4"	6"	24"	COLOR
SB EDGE	1107+32.16	12.00' LT	1108+48.68	12.00' LT	117			W
SB EDGE	1109+50.11	12.00' LT	1110+68.68	12.00' LT	119			W
SB PARKING	1111+44.34	19.59' LT	1112+54.34	19.62' LT	130			Y
SB PARKING	1112+80.87	19.28' LT	1112+98.81	19.36' LT	75			Y
NB EDGE	1107+32.59	12.00' RT	1108+21.76	12.00' RT	90			W
NB PARKING	1108+48.52	19.75' RT	1109+77.31	19.18' RT	148			Y
NB EDGE	1109+91.86	12.00' RT	1110+81.57	12.00' RT	90			Y
NB PARKING	1111+16.77	20.36' RT	1111+38.77	20.34' RT	38			Y
NB PARKING	1111+91.57	20.38' RT	1112+11.57	20.47' RT	36			Y
NB EDGE	1112+53.95	12.00' RT	1112+65.93	12.00' RT	12			W
N. LEG CROSSWALK AT WINSLOW RD	1113+55.42	CL	1113+61.42	CL		82		W
W. LEG STOP BAR AT HUBBARD ST	1108+70.18	37.87' LT	1108+86.45	31.90' LT			18	W
E. LEG CROSSWALK AT WINSLOW RD	1112+83.89	32.21' RT	1113+41.64	30.48' RT		115		W
E. LEG STOP BAR AT WINSLOW RD	1113+12.79	40.57' RT	1113+27.88	40.57' RT			16	W
CENTERLINE (SKIP DASH)	1107+32.16	CL	1110+68.71	CL	85			Y
CENTERLINE	1110+68.71	CL	1113+66.61	CL	373			Y
TOTAL					1313	197	34	
2 COATS PAINT					2626	394	68	
USE					2626	394	68	

MODEL: Unnamed Plan - Plan 1 [Sheet]  
 FILE NAME: S:\2024\141\002 - FTB 21b-17 D2 - Qunadel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\141\002-17 D2-17 D2-17 D2-17 D2-17 D2.dgn



USER NAME = afarooqi  
 PLOT SCALE = 0.16666633' / in.  
 PLOT DATE = 12/9/2024

DESIGNED - AAF  
 DRAWN - AAF  
 CHECKED - JA  
 DATE - 12/09/2024

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

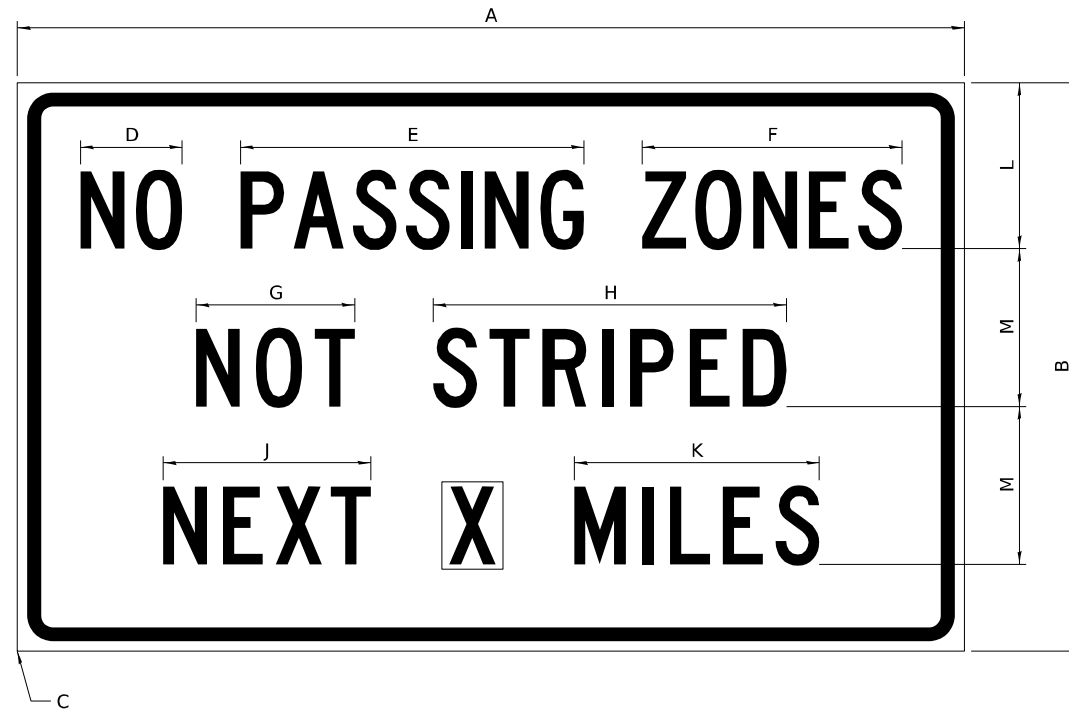
**IL 73 OVER INDIAN CREEK**  
**PAVEMENT MARKING PLAN**

SCALE: 1"=50'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	25
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100**



COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**GENERAL NOTES**

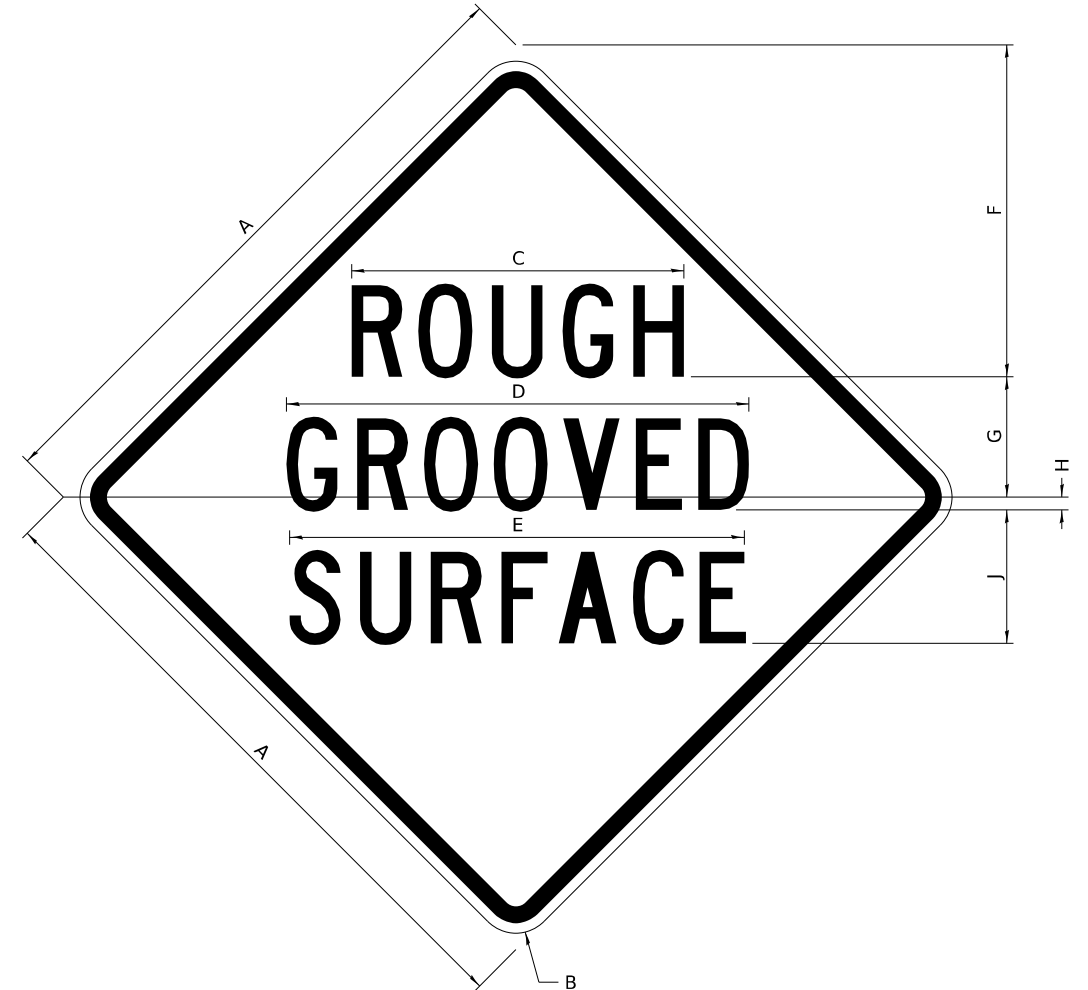
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**ILLINOIS STANDARD W8-I107**



COLOR    LEGEND AND BORDER BACKGROUND    BLACK ORANGE    NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

MODEL: 34.1 Sheet 1  
FILE NAME: S:\2024\2411002 - PTB 210-17 D2 - Quadrel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

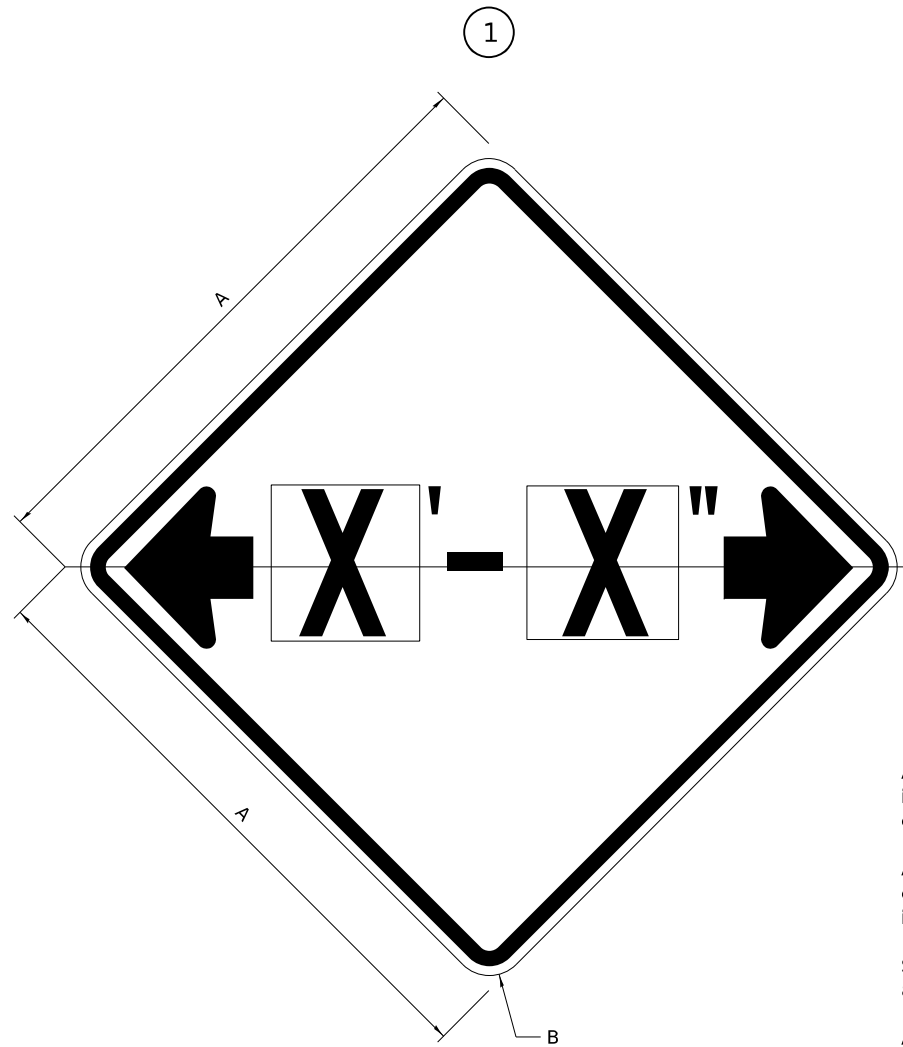
**REGION 2 / DISTRICT 2 STANDARD**

SCALE: N.T.S.    SHEET 1 OF 9 SHEETS    STA.    TO STA.

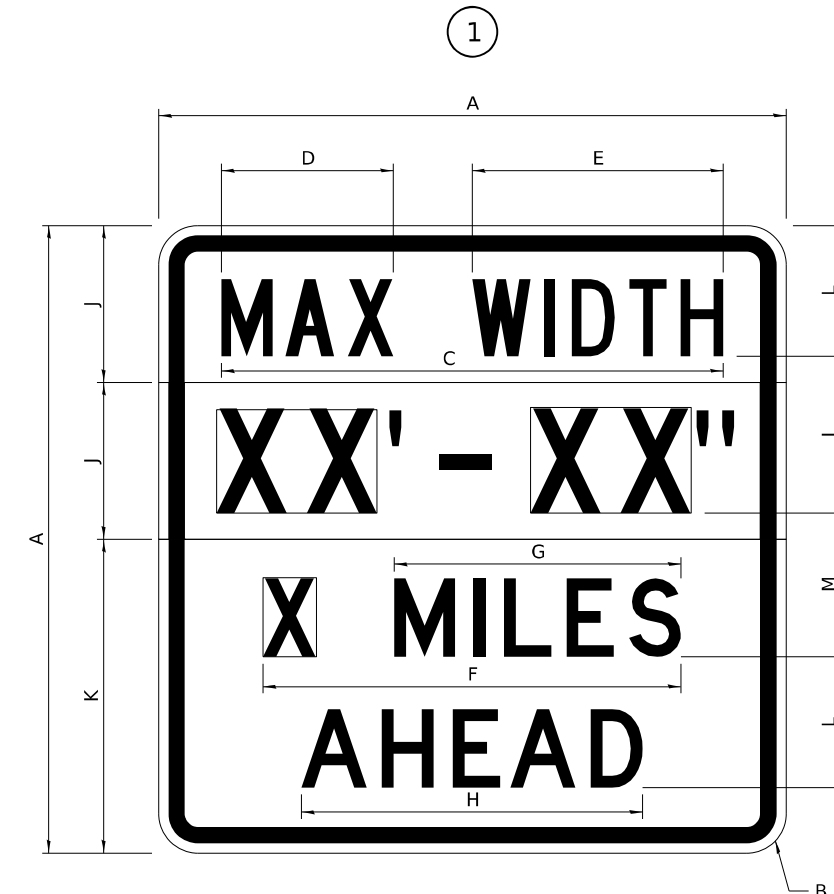
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	26
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

# WORK ZONE SIGN DETAILS

## ILLINOIS STANDARD W12-I102



## ILLINOIS STANDARD W12-I103



### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

MODEL: 34.1 Sheet 2  
FILE NAME: S:\2024\1411002 - PTB 210-17 D2 - Quadrel - Various PHHWO-2-64533 IL 73\CADD\CADD Sheets\1264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 0.16666833 / in.	DRAWN -	REVISED -
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

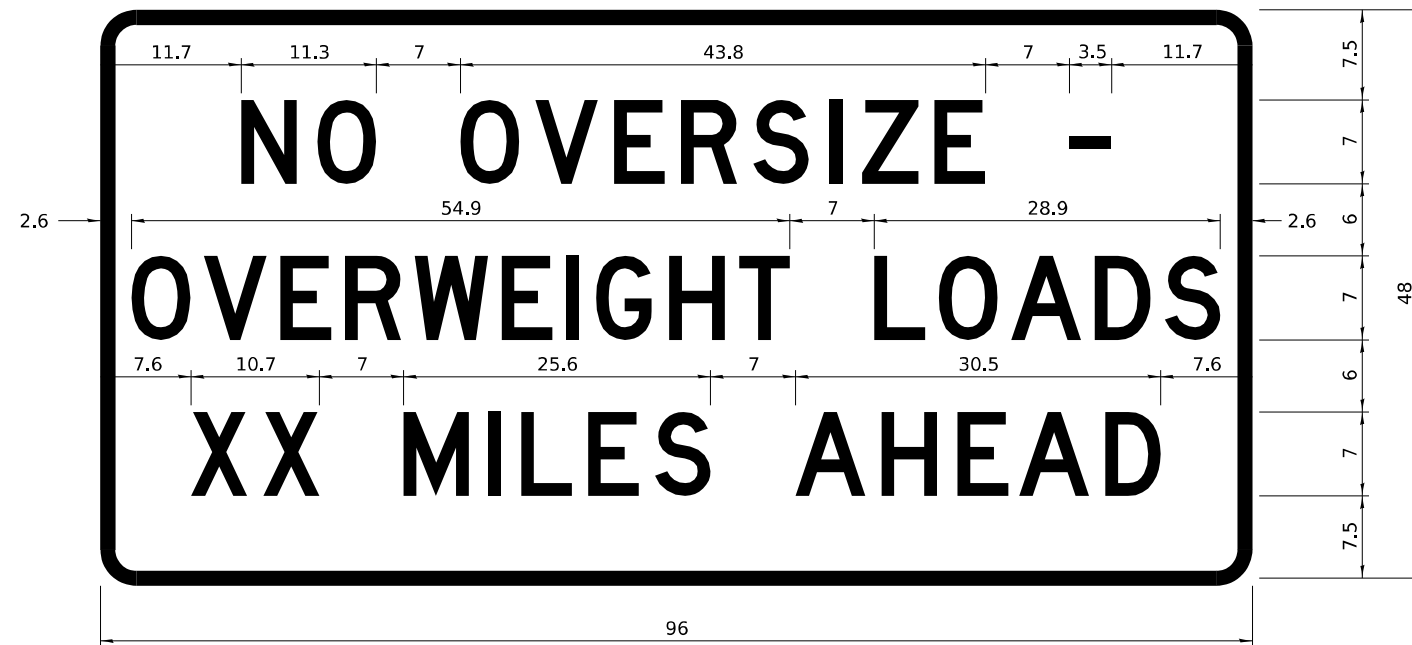
SCALE: N.T.S. SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	27
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

# WORK ZONE SIGN DETAILS

## STOP LINE SIGN FOR TEMPORARY SIGNALS

### ROAD CLOSED TO OVERSIZED LOADS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;  
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;  
 Table of letter and object lefts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

MODEL: 34.1 Sheet 3  
 FILE NAME: S:\2024\1241\002 - PTB 210-17 D2 - Quadrel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

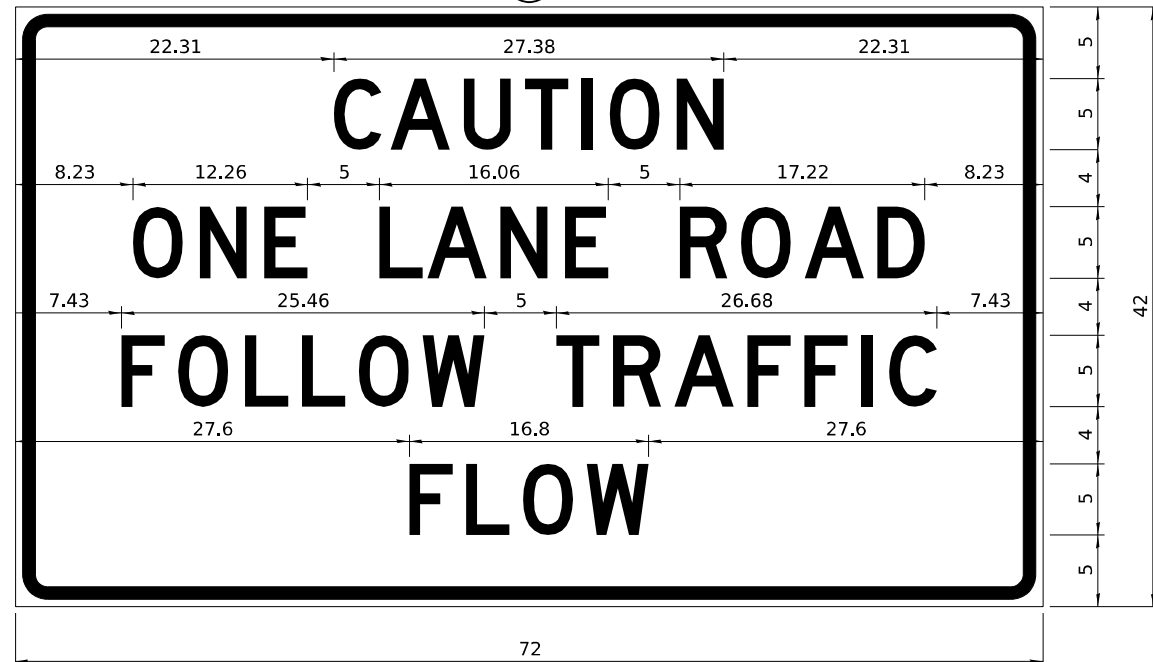
SCALE: N.T.S. SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	28
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

**ENTRANCE SIGN FOR USE  
WITH TEMPORARY SIGNALS**

**WORK ZONE SIGN DETAILS**

2



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

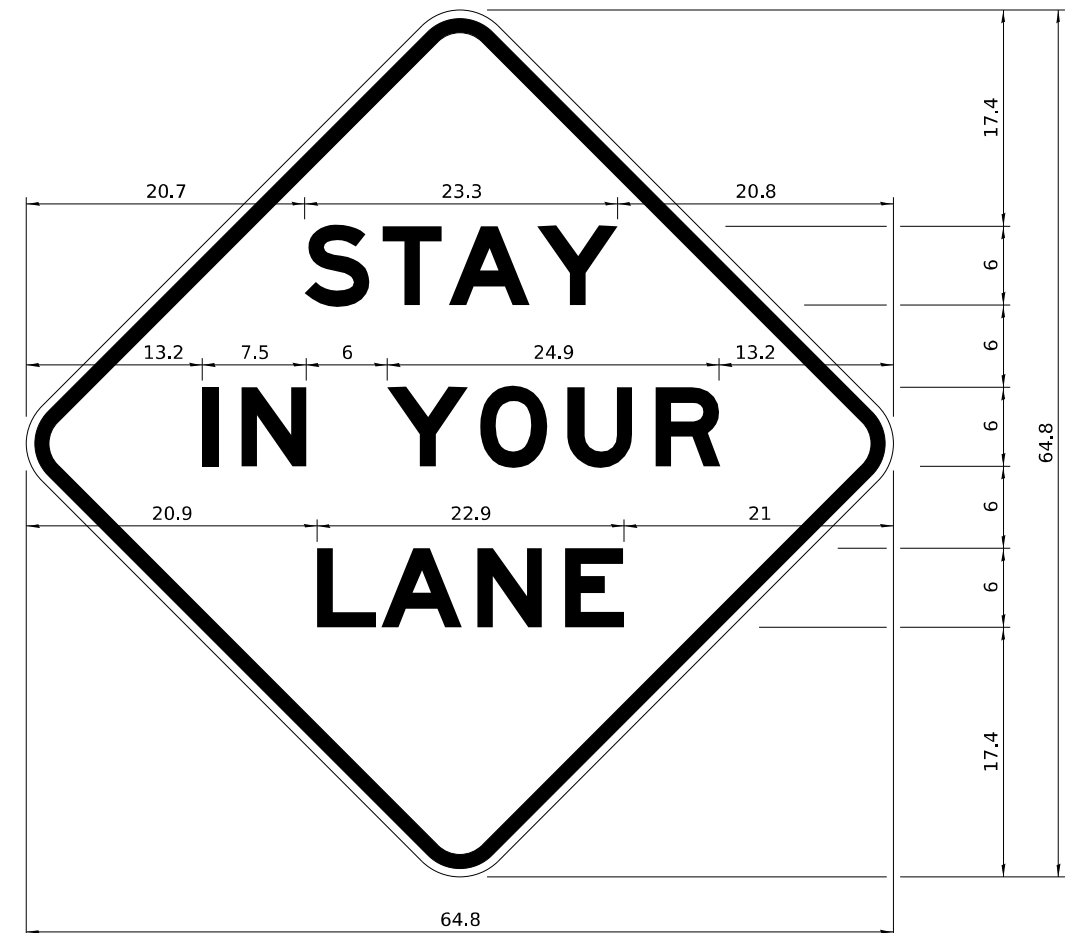
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

**STAY IN YOUR LANE**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;  
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

**Table of Letter and Object Lefts**

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

MODEL: 34\_1 Sheet 4  
FILE NAME: S:\2024\1411002 - PTB 210-17 D2 - Quadrel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

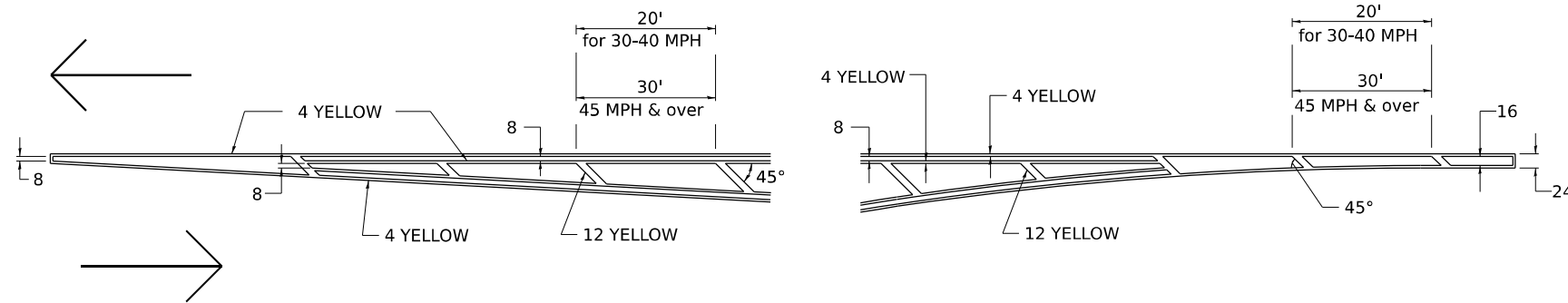
REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET 4 OF 9 SHEETS STA. TO STA.

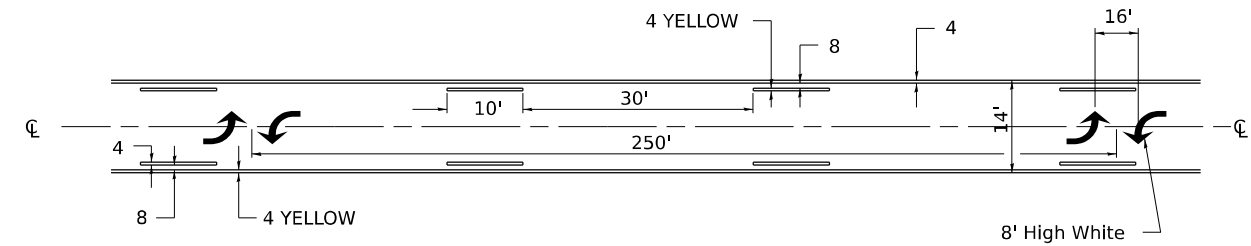
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	29
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

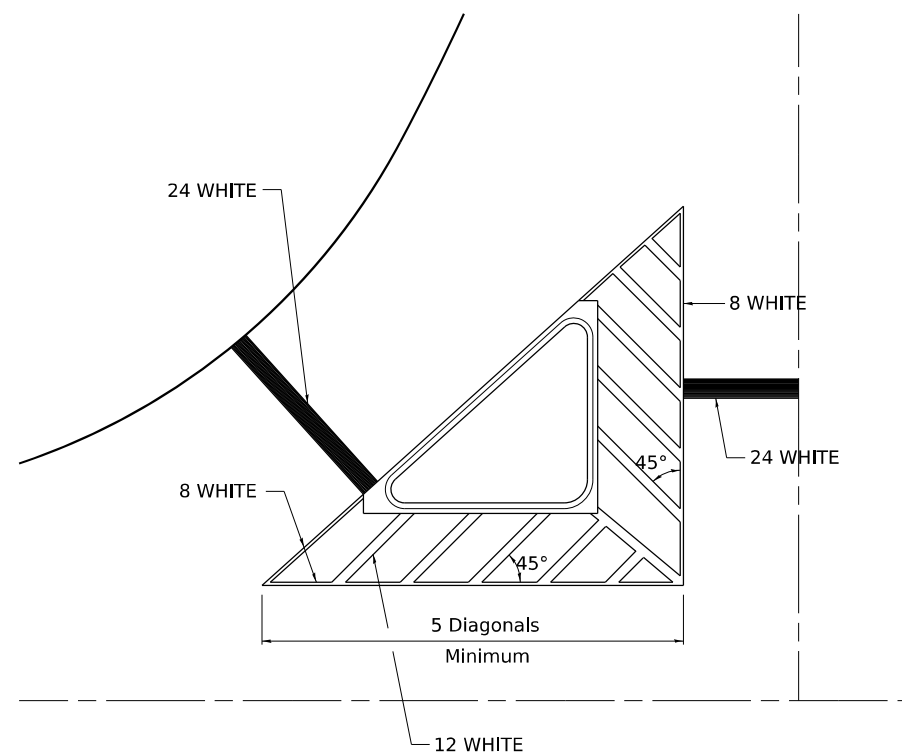


## MEDIAN PAVEMENT MARKING



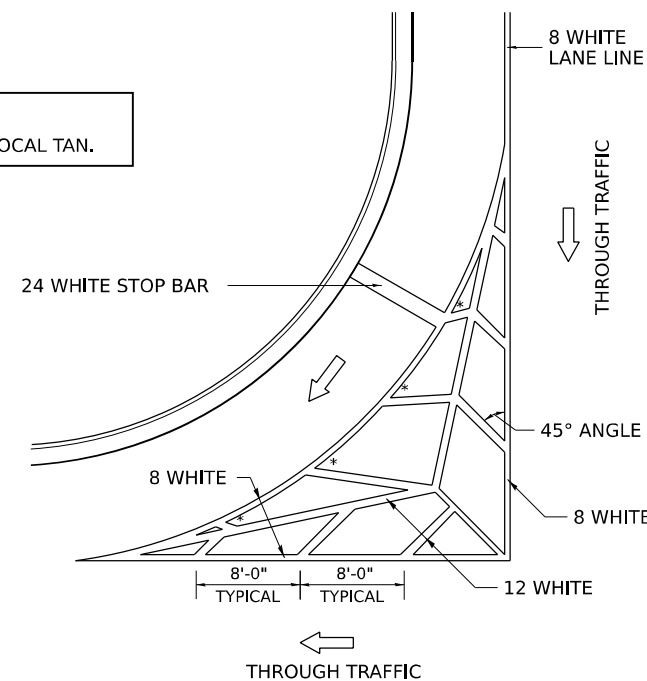
\*\* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



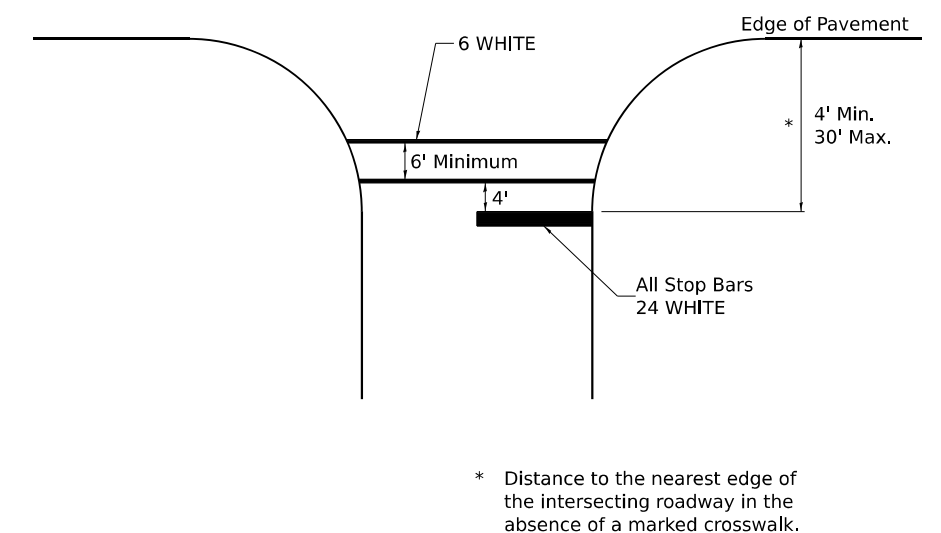
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations



\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

MODEL: 41.1 Sheet 1  
FILE NAME: S:\2024\2411\002 - PTB 210-17 D2 - Quadrel - Various PHHW 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 6-27-14
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED - 3-05-12
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

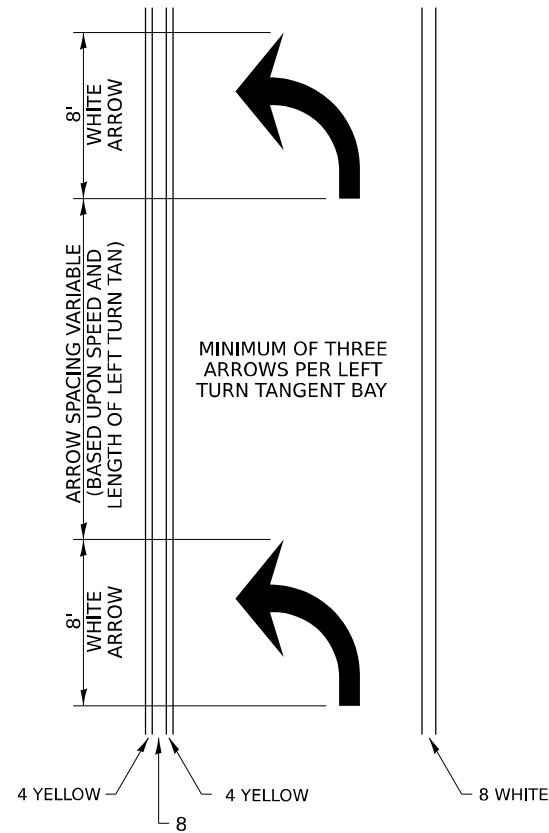
REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	30
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT

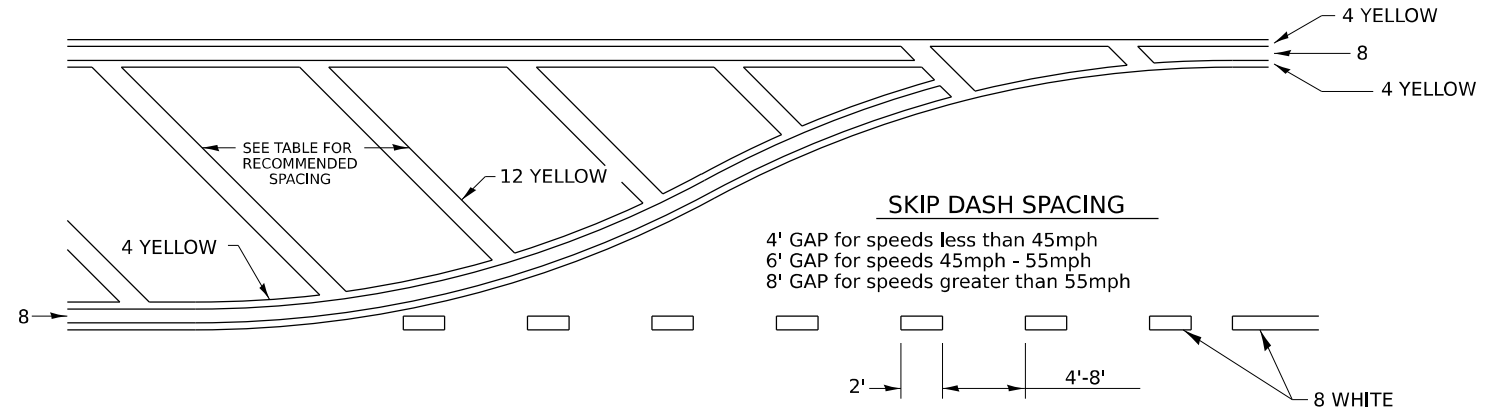


## SYMBOLS

- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

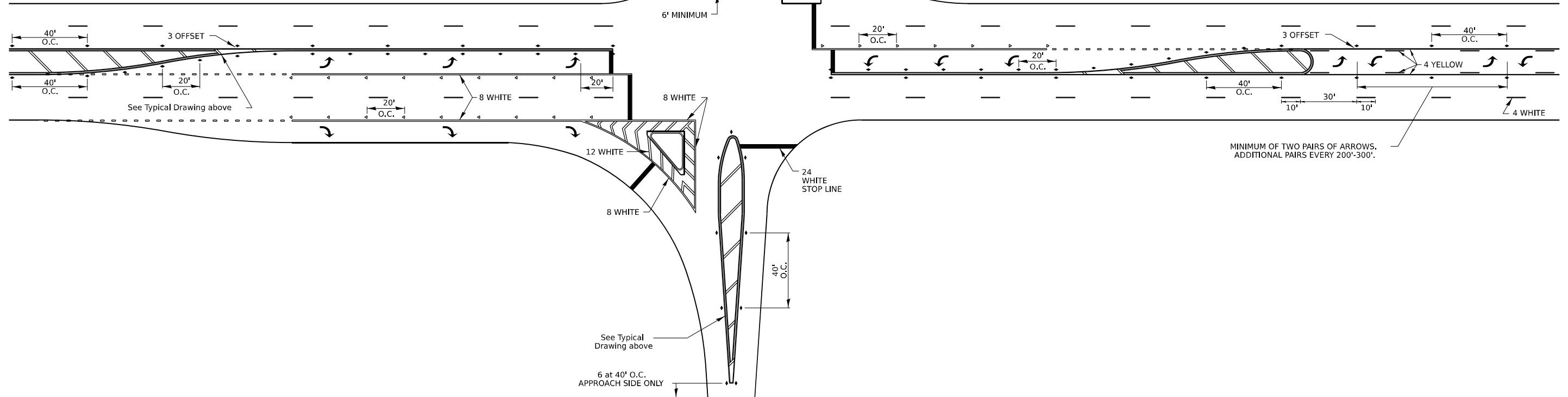
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



MODEL: 41.1 Sheet 2  
FILE NAME: S:\2024\2411002 - PTB 210-17 D2 - Qunadai - Various PHHW 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 6-27-14
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED - 3-05-12
PLOT DATE = 12/9/2024	CHECKED -	REVISED -
	DATE -	REVISED -

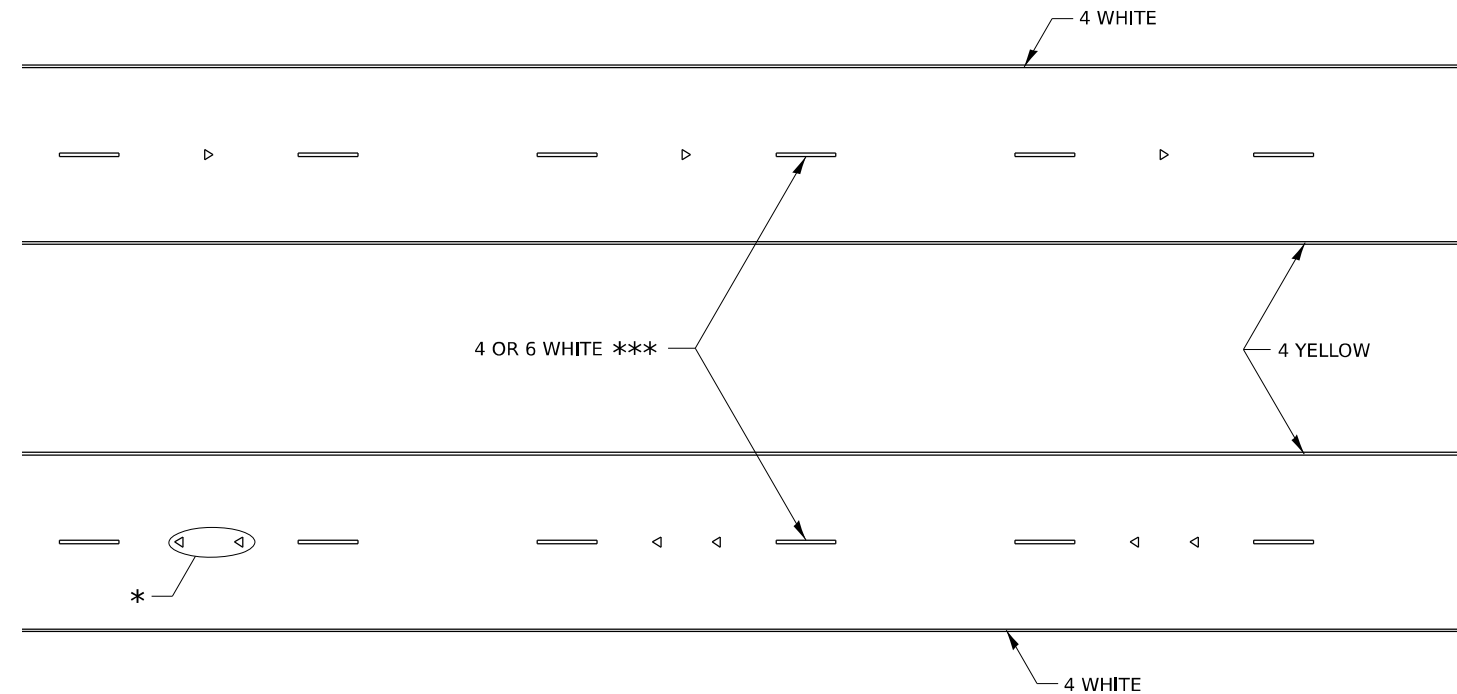
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET 6 OF 9 SHEETS STA. TO STA.

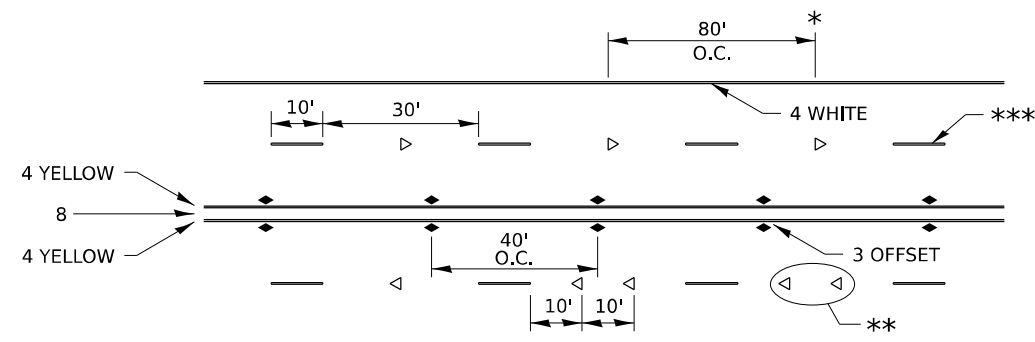
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	31
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

## MULTI-LANE / DIVIDED



\* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

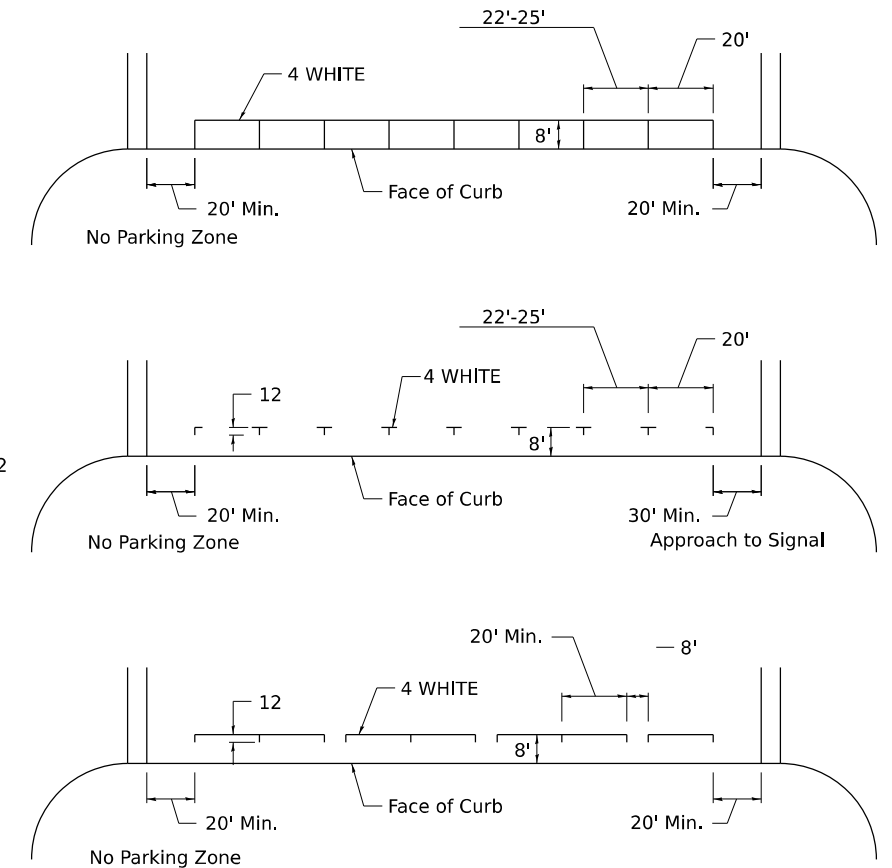
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000

\*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

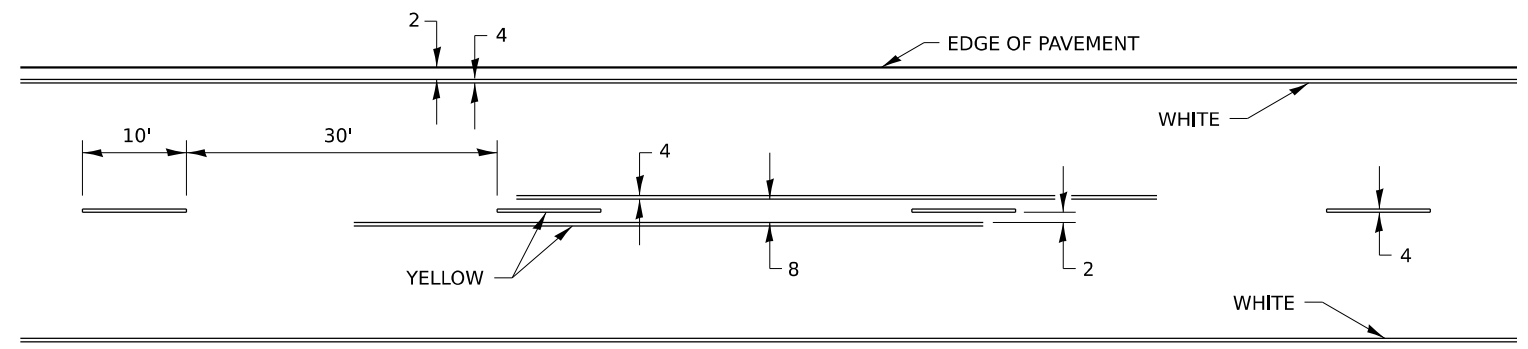
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



MODEL: 41.1 Sheet 3  
FILE NAME: S:\2024\1411002 - PTB 210-17 D2 - Quadrel - Various PHHW-2-64533 IL 73\CADD\CADD Sheets\ID264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 6-27-14
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED - 8-27-13
PLOT DATE = 12/9/2024	CHECKED -	REVISED - 11-28-12
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	32
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				

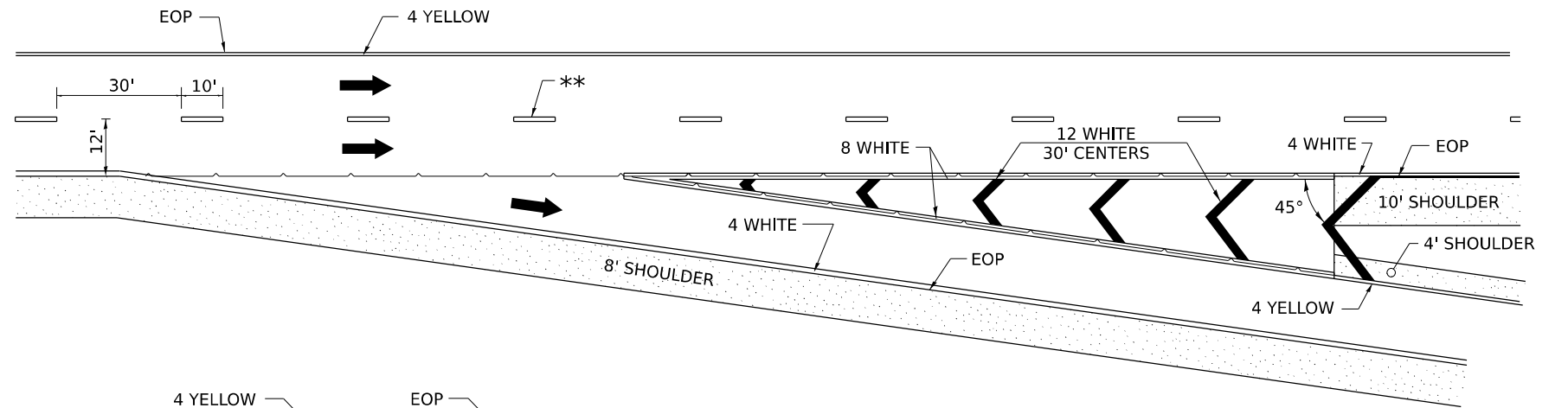


# TYPICAL PAVEMENT MARKINGS

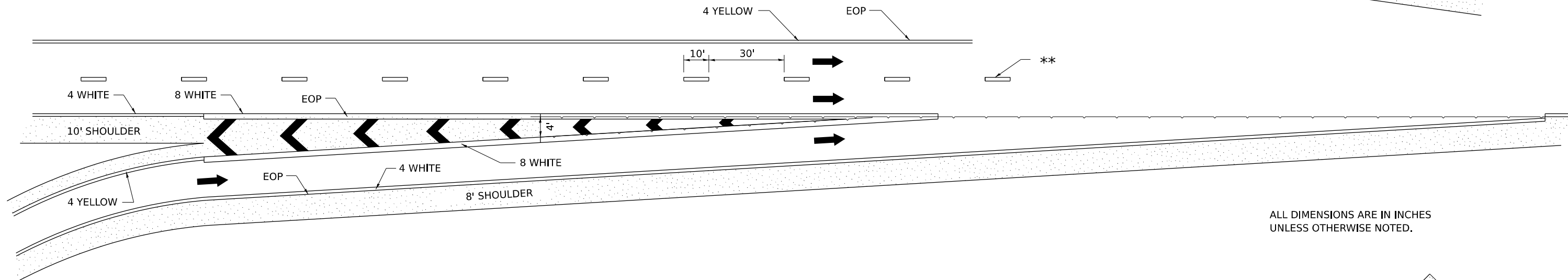
\*\* 6" WHITE ON INTERSTATES, WHERE THE SPPED LIMIT IS 65 MPH, OR WHEN DIRECTED BY THE ENGINEER.  
4" WIDE AT ALL OTHER LOCATIONS.

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

## EXIT RAMP

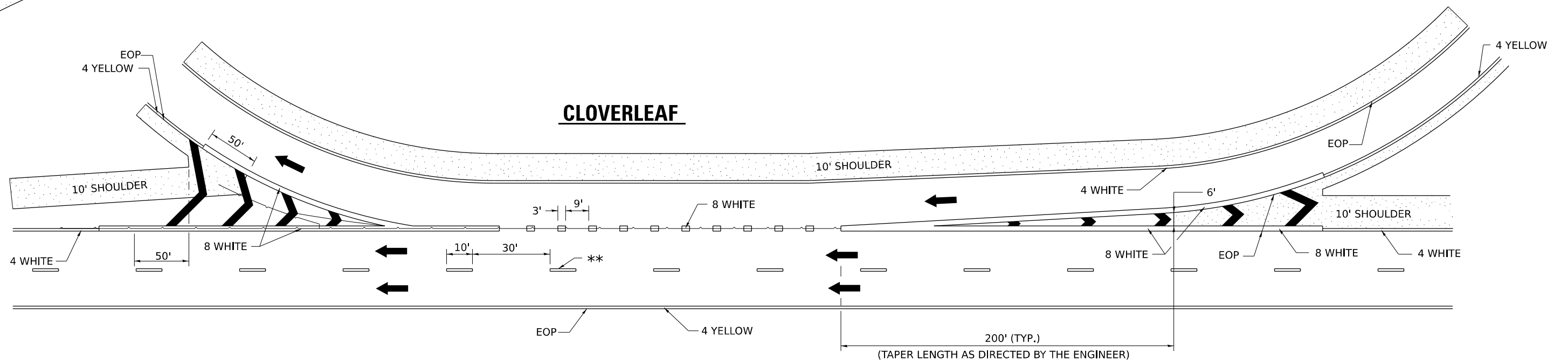


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



MODEL: 41.1 Sheet 4  
FILE NAME: S:\2024\2411002 - PTB 210-17 D2 - Quantel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\264533-Sht-Details-D2.dgn



USER NAME = afarooqi  
PLOT SCALE = 0.16666633 / in.  
PLOT DATE = 12/9/2024

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED - 9-15-23  
REVISED - 8-27-13  
REVISED - 10-18-11  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

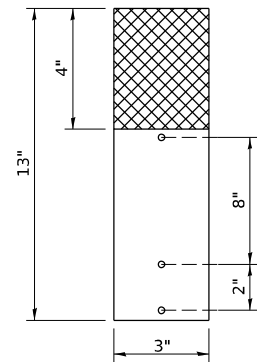
SCALE: N.T.S. SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	33
CONTRACT NO. 64533				
ILLINOIS FED. AID PROJECT				

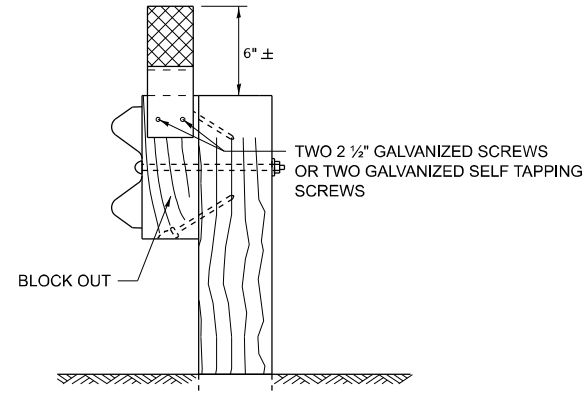
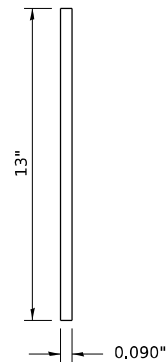
# GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

## REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

STRAIGHT REFLECTOR / DELINEATOR



SIDE VIEW

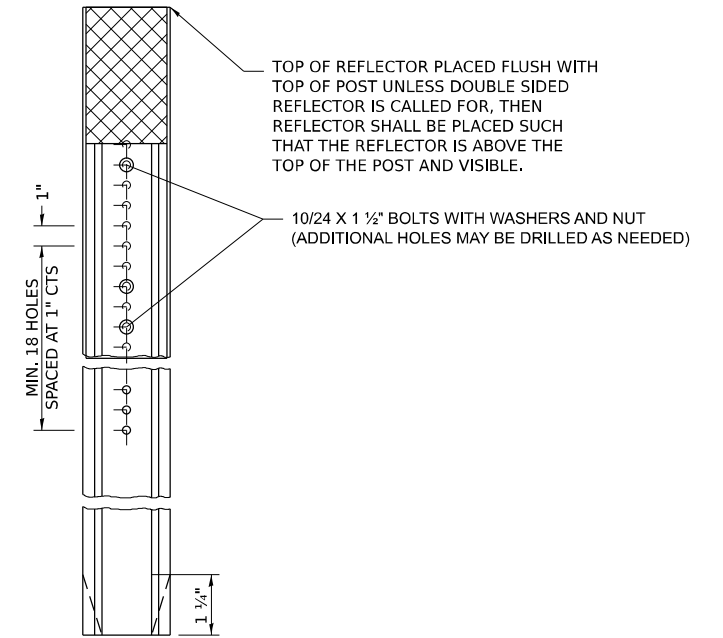


MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

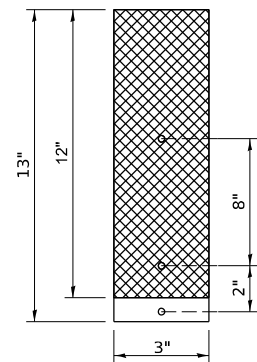
REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS

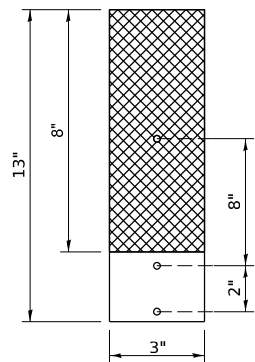


MOUNTED ON A DELINEATOR POST

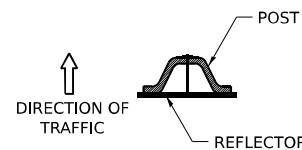
REPLACING 3 BUTTON DELINEATOR



REPLACING 2 BUTTON DELINEATOR



ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHED AS SHOWN ABOVE.

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:

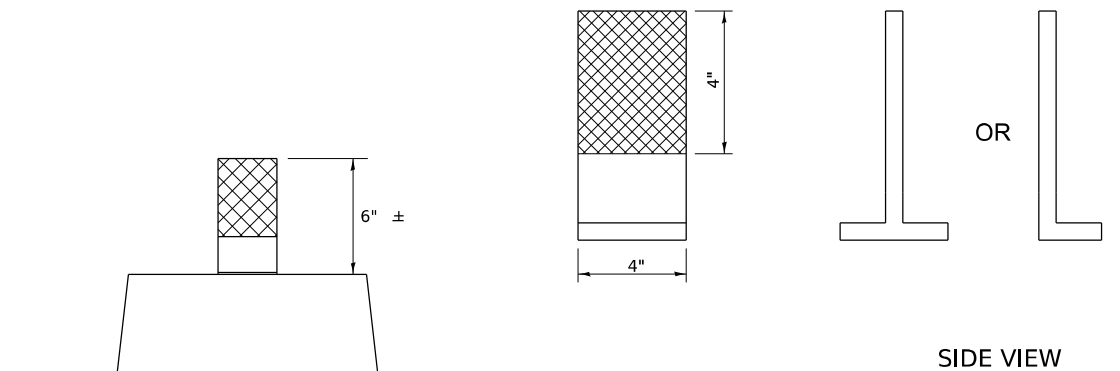
REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUTSIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.



REFLECTORS MOUNTED ON BARRIER WALL

SIDE VIEW

MODEL: 55.1 Sheet 1  
FILE NAME: S:\2024\241002 - PTB 210-17 D2 - Quantel - Various PHHWO 2-64533 IL 73\CADD\CADD Sheets\ID264533-Sht-Details-D2.dgn



USER NAME = afarooqi	DESIGNED -	REVISED - 3-07-24
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED - 4-27-23
PLOT DATE = 12/9/2024	CHECKED -	REVISED - 6-21-21
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106 BR)BDR	STEPHENSON	34	34
CONTRACT NO. 64S33				
ILLINOIS FED. AID PROJECT				