

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(3,4)BDR	PIKE	25	1
		ILLINOIS	CONTRACT NO. 72M27	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

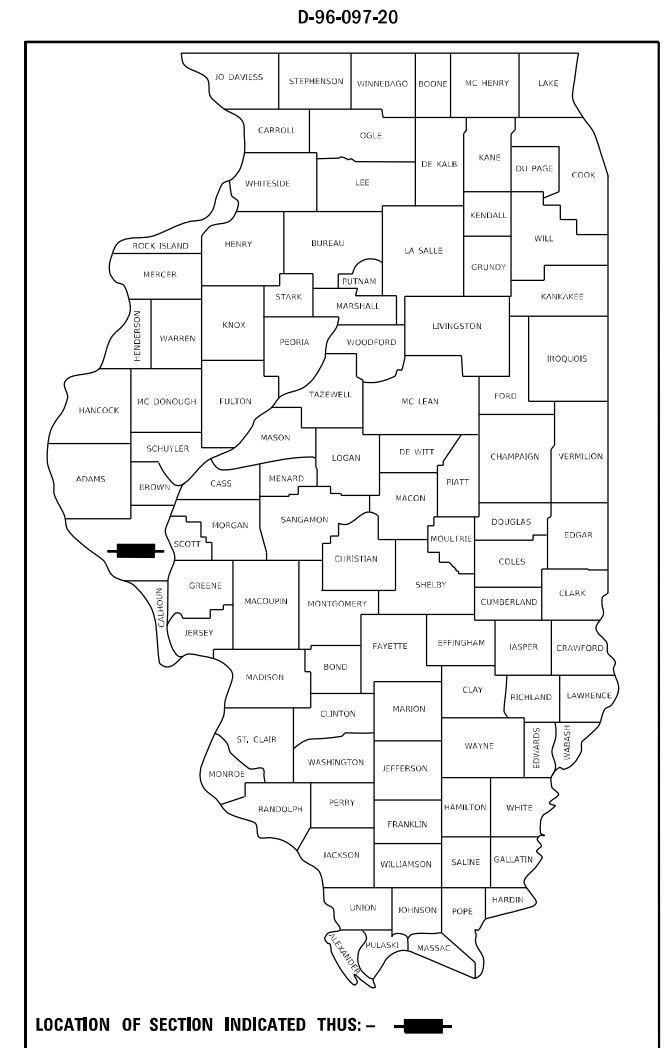
HIGHWAY CLASSIFICATION

A.D.T. 1,400(2019) PV = 88.48%
 PROJECTED ADT 1,708(2039) SU = 5.58%
 DESIGN SPEED 60 MU = 5.94%
 POSTED SPEED 55

FAP ROUTE 304 (IL 96)
 SECTION (3,4)BDR
 PROJECT STP-37EI(988)
 BRIDGE DECK OVERLAY
 PIKE COUNTY

CLASSIFICATION: MINOR ARTERIAL

C-96-127-20



PROJECT BEGINS
STA. 959 + 65

EXISTING SN 075-0045
BRIDGE DECK OVERLAY

PROJECT ENDS
STA. 961 + 72

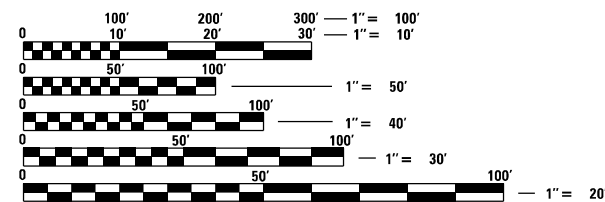
T6S

PROJECT BEGINS
STA 1175 + 96

EXISTING SN 075-0075
BRIDGE DECK OVERLAY

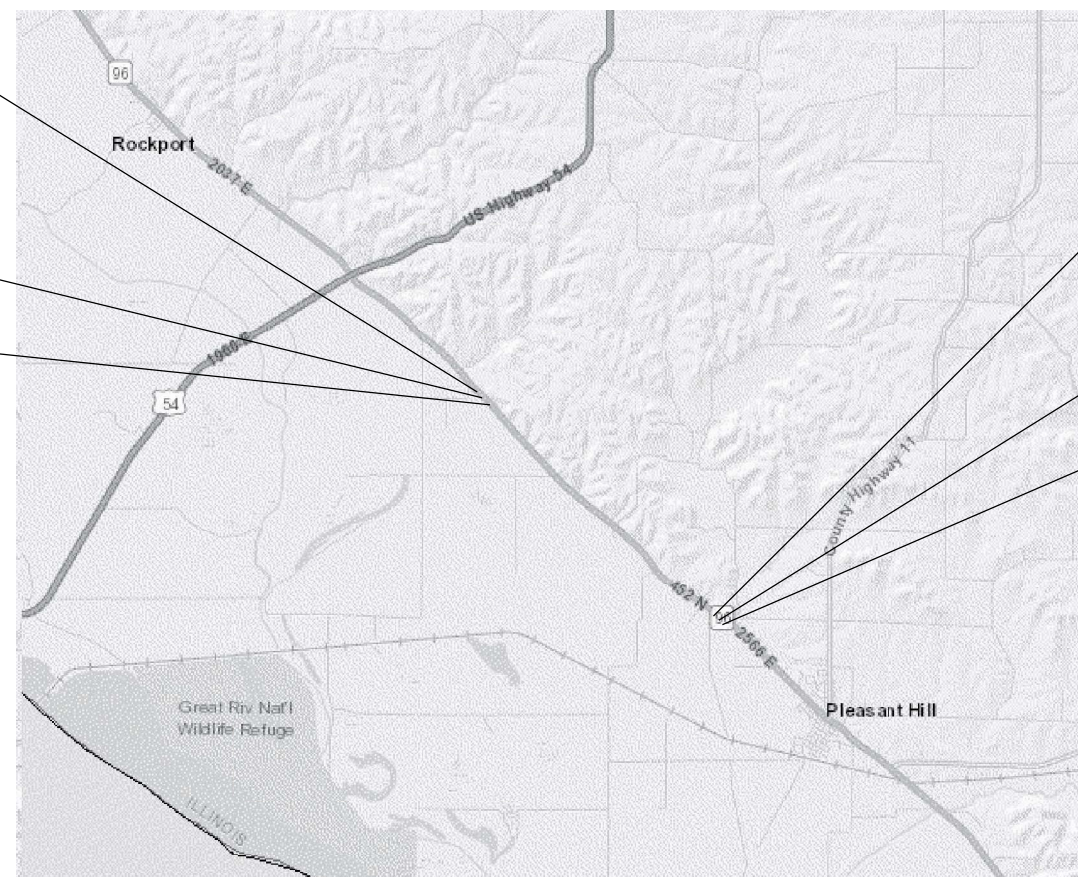
PROJECT ENDS
STA. 1180 + 00

T7S



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 EXCAVATORS
 1-800-892-0123
 OR 811



PROJECT ENGINEER: JAY EDWARDS (217) 785-0597
 PROJECT MANAGER: JONATHAN COX (217) 782-1378

CONTRACT NO. 72M27

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 22, 2021

Jay P. Myers
REGIONAL ENGINEER

December 10, 2021
Stephen M. Frantz
ENGINEER OF DESIGN AND ENVIRONMENT

December 10, 2021
Stephen M. Frantz
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STANDARDS

- 000001-08 STANDARDS SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF ROADS OPERATIONS 2L,2W MORE THAN 15' AWAY FROM PAVEMENT EDGE
- 701006-05 OFF ROADS OPERATIONS 2L,2W, 15'-24" FROM PAVEMENT EDGE
- 701011-04 OFF ROADS MOVING OPERATIONS 2L,2W DAY ONLY
- 701301-04 LANE CLOSURE 2L,2W, SHORT TERM OPERATIONS
- 701306-04 LANE CLOSURE 2L,2W, SHORT TERM OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS -DAY ONLY
- 701316-13 LANE CLOSURE 2L,2W BRIDGE REPAIR FOR SPEEDS ≥ 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS FOR RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 630001-12 STEEL PLATE BEAM GUARDRAIL

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STANDARDS, GENERAL NOTES AND COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5-6	SCHEDULE OF QUANTITIES
7	075-0075 PLAN SHEET
8	075-0045 PLAN SHEET
9	075-0075 STAGING TYPICALS
10-11	075-0075 STAGING SHEETS
12-15	075-0075 STRUCTURE PLANS
16	075-0045 STAGING TYPICALS
17-18	075-0045 STAGING SHEETS
19-23	075-0045 STRUCTURE PLANS
24	BUTT JOINT DETAIL
25	MAX-WIDTH SIGN DETAIL

GENERAL NOTES

1 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE

LOCATIONS	IL 96
MIXTURE USE(S)	HMA CONC SURF CSE
AC/PG	SBS PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGGREGATE	MIX "C"
QUALITY MANAGEMENT	QC/QA
SUBLOT SIZE	1,000 TONS

- 2 AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.
- 3 ANY FULL DEPTH PATCHES THAT ARE DISCOVERED SHALL BE COVERED WHEN WORKERS AREN'T PRESENT.

COMMITMENTS

NONE

RATE TABLE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES.

- 0.025 LBS/SQ FT (HMA LIFTS)
- BITUMINOUS MATERIALS (TACK COAT): 0.05 LBS/SQ FT (MILLING)
- HMA SURFACE MIX "C": 0.056 TONS/SQ YD
- AGGREGATE SHOULDERS: 1.60 TONS/CU YD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED October 20 2021
[Signature]
ENGINEER OF OPERATIONS

EXAMINED September 27 2021
[Signature]
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED October 14 2021
[Signature]
ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, STANDARDS, AND
INDEX OF SHEETS FAP 304 (IL 96)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(3,4)BDR	PIKE	25	2
CONTRACT NO. 72M27			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01460-0000	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				BRIDGE 0059	BRIDGE 0059
				075-0075	075-0045
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	475	285	190
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	529	280	249
40600990	TEMPORARY RAMP	SQ YD	76	40	36
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	107	63	44
42001300	PROTECTIVE COAT	SQ YD	1367	976	391
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	22	12	10
50300260	BRIDGE DECK GROOVING	SQ YD	1315	949	366
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	2	2
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50		50
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	2	3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	1	2
63200310	GUARDRAIL REMOVAL	FOOT	604.5	102	502.5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01460-0000	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				BRIDGE 0059	BRIDGE 0059
				075-0075	075-0045
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	122	80	42
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	20	13	7
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	1	2
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2496	1616	880
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	11	6	5
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	2	2
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1040	673	367
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	100	100	

REV. - MS

USER NAME = coxjw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES FAP 304 (IL 96)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -				304	(3,4)BDR	PIKE	25	3
PLOT DATE = 10/24/2021	CHECKED -	REVISED +		SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 72M27		
DATE -	REVISED +			ILLINOIS FED. AID PROJECT						

6-01460-0000	
80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
BRIDGE 0059	BRIDGE 0059
075-0075	075-0045

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	075-0075	075-0045
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1367	976	391
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	1367	976	391
∅ Z0076600	TRAINEES	HOUR	500	500	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	48		48
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
Z0041895	POLYMER CONCRETE	CU FT	9	5	4

∅ 0042

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REV. - MS

USER NAME = coxjw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES FAP 304 (IL 96)		F.A.P. RTE. 304	SECTION (3,4)BDR	COUNTY PIKE	TOTAL SHEETS 25	SHEET NO. 4	
PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 72M27			
PLOT DATE = 10/24/2021	CHECKED -	REVISED +		ILLINOIS FED. AID PROJECT							
DATE -	DATE -	REVISED +									

40600290			
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	BITUMINOUS MATERIALS (TACK COAT) (MILLING) (POUND)
FAP 304 (IL 96)			
SN 075-0075			
1175+96.00 TO 1176+64.00	68.00	36.00	122.40
1179+10.00 TO 1180+00.00	90.00	36.00	162.00
SN 075-0045			
959+65.00 TO 960+00.00	35.0	32.00	56.00
960+88.00 TO 961+72.00	84.00	32.00	134.40
TOTAL			475

70300100		70300150	
LOCATION	LENGTH (FOOT)	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
FAP 304 (IL 96)			
SN 075-0075			
1175+96.00 TO 1180+00.00	404.00	40.40	13.00
SN 075-0045			
959+65.00 TO 961+72.00	207.00	20.70	7.00
SCARAFICATION		61	
SURFACE COURSE		61	
TOTAL		122	20

40600982			40604050			
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	HMA SURF REM - BUTT JOINT (SQ YD)	HMA SURF CRSE, IL 9.5, MIX "C", N50 (TON)		
FAP 304 (IL 96)						
SN 075-0075						
1175+96.00 TO 1176+31.00	35.0	36.0	140			13.72
1176+31.00 TO 1176+64.00	33.00	36.00				12.94
1179+10.00 TO 1179+65.00	55.00	37.00				22.16
1179+65.00 TO 1180+00.00	35.0	36.0	140			13.72
SN 075-0045						
959+65.00 TO 960+00.00	35.0	32.0	124			12.20
960+88.00 TO 961+37.00	49.00	37.00				19.74
961+37.00 TO 961+72.00	35.0	32.0	124			12.20
TOTAL			529			107

78001120		78300201		
5"				
LOCATION	PAINT PAVEMENT MARKING (YELLOW SKIP-DASH) (FOOT)	PAINT PAVEMENT MARKING (WHITE SOLID) (FOOT)	PAINT PAVEMENT MARKING (YELLOW DOUBLE SOLID) (FOOT)	PAVEMENT MARKING REMOVAL - GRINDING (SQ FT)
FAP 304 (IL 96)				
SN 075-0075				
1175+96.00 TO 1180+00.00 X2		808.00	808.00	673.33
SN 075-0045				
959+65.00 TO 961+72.00 X2	51.75	414.00	414.00	366.56
TOTAL		2496		1040

40600990			
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	TEMPORARY RAMP (SQ YD)
FAP 304 (IL 96)			
SN 075-0075			
1176+26.00 TO 1176+31.00	5.0	36.0	20
1179+65.00 TO 1179+70.00	5.0	36.0	20
SN 075-0045			
959+95.00 TO 960+00.00	5.0	32.0	18
961+37.00 TO 961+42.00	5.0	32.0	18
TOTAL			76

78300200		
LOCATION	RAISED REFLECTIVE PAVEMENT MARKING REMOVAL (EACH)	
FAP 304 (IL 96)		
SN 075-0075		
1175+96.00 TO 1180+00.00	2	
SN 075-0045		
959+65.00 TO 961+72.00	2	
TOTAL		4

48102100					
LOCATION	AVERAGE THICK (INCHES)	LENGTH (FOOT)	WIDTH (FOOT)	AREA (CU YD)	AGGREGATE WEDGE SHOULDERS (TON)
FAP 304 (IL 96)					
SN 075-0075					
1175+96.00 TO 1176+94.00 X2	1.4	98.0	4.0	3.39	5.42
1178+78.00 TO 1180+00.00 X2	1.4	122.0	4.0	4.22	6.75
SN 075-0045					
959+65.00 TO 960+30.00 X2	1.4	65.0	4.0	2.25	3.60
960+58.00 TO 961+72.00 X2	1.4	114.0	4.0	3.94	6.31
TOTAL					22

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PLOT DATE = 10/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
FAP 304 (IL 96)			
SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(3,4)BDR	PIKE	25	5
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

				60260100
LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	INLETS TO BE ADJUSTED (EACH)	
SN 075-0075				
BRIDGE APPROACHES				
1176+64.00 TO 1176+94.00	30.0	36.0	2	
SN 075-0045				
960+58.00 TO 960+88.00	30.0	36.0	2	
TOTAL				4

LOCATION	63000001 SPBGR TA, 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 (EACH)	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	63100167 TRAF BAR TERM TYPE 1 (SP) TAN (EACH)	63200310 GUARDRAIL REMOVAL (FOOT)	72501000 TERMINAL MARKER - DIRECT APPLIED (EACH)	78200005 GUARDRAIL REFLECTORS, TYPE A (EACH)	X6330725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) (FOOT)
SN 075-0075								
1176+50.00 TO 1176+96.00 LT					46.0			
1178+76.00 TO 1179+32.00 LT					56.0			
342ND ST								
1176+58.50 TO 1176+96.00 LT			1				1	
1176+38.00 TO 1176+58.50 LT							1	50.0
1175+55.00 TO 1176+38.00 LT				1		1	1	
BIT PE								
1178+76.00 TO 1179+13.50 LT			1				1	
1179+13.50 TO 1179+34.00 LT							1	50.0
1179+28.00 TO 1179+34.00 LT		1					1	
SN 075-0045								
957+38.00 TO 959+31.00 RT					193.0			
958+62.00 TO 960+29.00 LT					167.0			
960+57.00 TO 961+62.00 LT					105.0			
960+67.00 TO 961+04.50 LT					37.5			
958+92.00 TO 959+42.00 LT				1		1	1	
959+42.00 TO 959+92.00 LT	50.0						1	
959+92.00 TO 960+29.50 LT			1				1	
960+57.00 TO 960+94.50 RT			1				1	
960+67.00 TO 961+04.50 LT			1				1	
960+94.50 TO 961+44.50 RT				1		1	1	
TOTAL	50	1	5	3	604.5	3	11	100

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PLOT DATE = 10/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
FAP 304 (IL 96)**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(3,4)BDR	PIKE	25	6
CONTRACT NO. 72M27			ILLINOIS FED. AID PROJECT	

GUARDRAIL REMOVAL 075-0075
 STA 1176+50.00 TO STA 1176+96.00 LT (50')
 STA 1178+76.00 TO STA 1179+32.00 LT (56')

PROP TRAFFIC BAR TERM T2
 STA 1179+28.00, 64.90' LT TO STA 1179+34.00, 51.94' LT (12.5') BIT PE

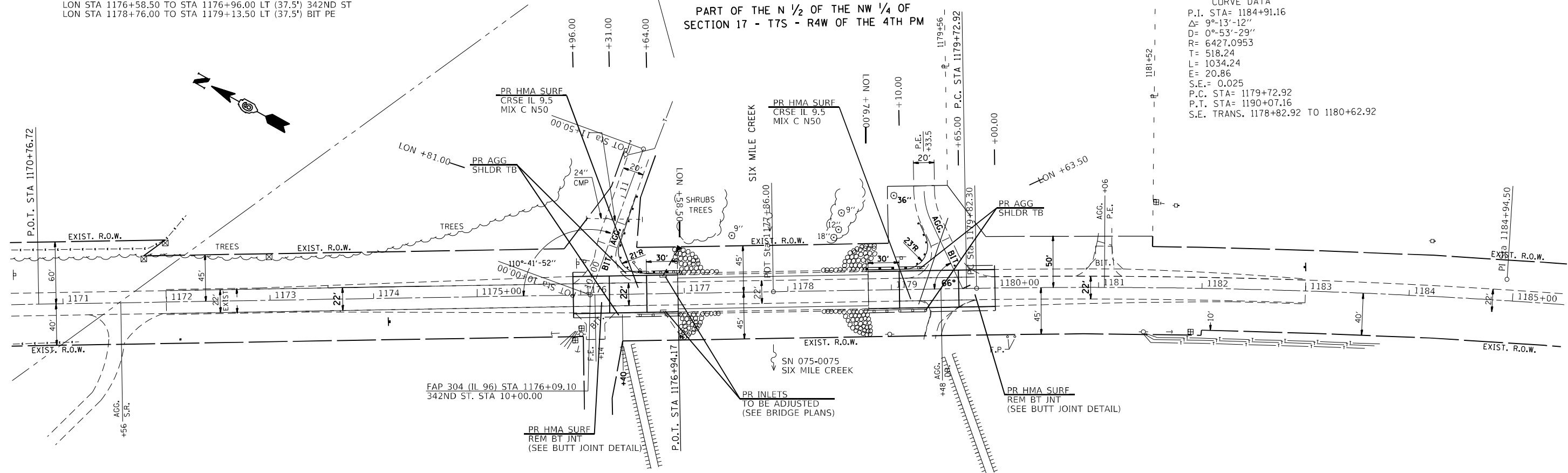
PROP TRAFFIC BAR TERM T1 (SP)
 STA 1175+55.00, 95.38' LT TO STA 1176+38.00, 48.31' LT (50') 342ND ST

PROP SPBGR (SHORT RADIUS)
 LON STA 1176+38.00, 48.31' LT TO STA 1176+58.50, 20.23' LT (50') 342ND ST (21' RADIUS)
 LON STA 1179+13.60, 19.59' LT TO STA 1179+34.00, 51.94' LT (50') BIT PE (23' RADIUS)

PROP TRAFFIC BAR TERM TY 6
 LON STA 1176+58.50 TO STA 1176+96.00 LT (37.5') 342ND ST
 LON STA 1178+76.00 TO STA 1179+13.50 LT (37.5') BIT PE

PART OF THE N 1/2 OF THE NW 1/4 OF SECTION 17 - T7S - R4W OF THE 4TH PM

CURVE DATA
 P.I. STA= 1184+91.16
 Δ= 9°-13'-12"
 D= 0°-53'-29"
 R= 6427.0953
 T= 518.24
 L= 1034.24
 E= 20.86
 S.E.= 0.025
 P.C. STA= 1179+72.92
 P.T. STA= 1190+07.16
 S.E. TRANS. 1178+82.92 TO 1180+62.92



BM #1 - CHSLD "□" N.W. COR. BRIDGE WINGWALL ELEV. 487.71

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PLOT DATE = 10/24/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
SIX MILE CREEK SN 075-0075

SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4)BDR	PIKE	25	7
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

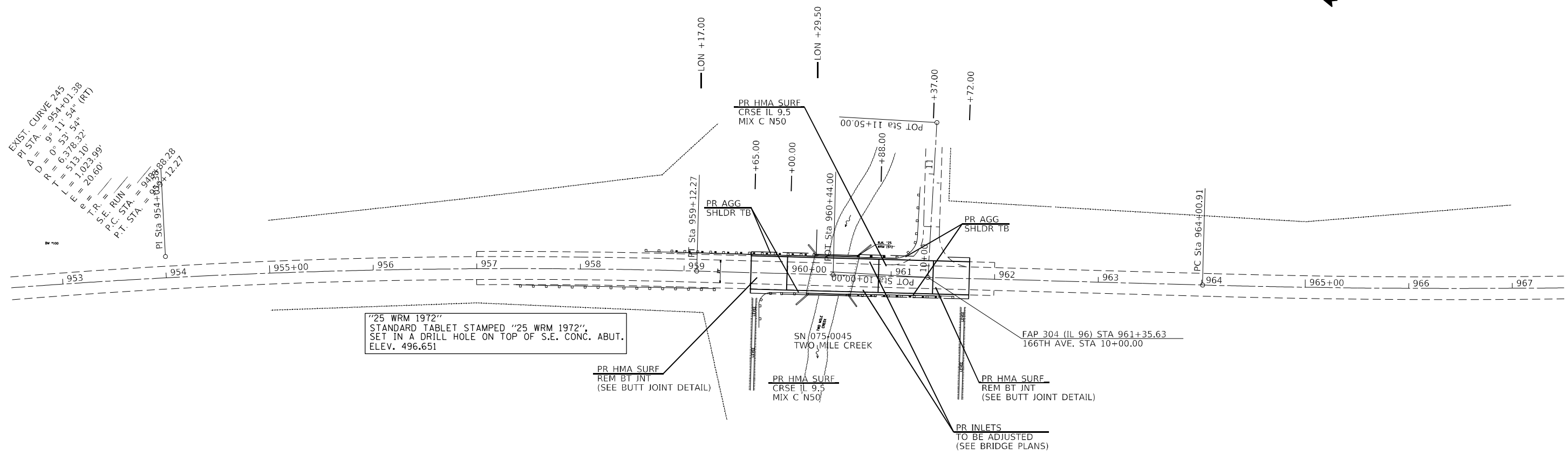
GUARDRAIL REMOVAL 075-0045
 STA 957+38.00 TO STA 959+31.00 RT (193')
 STA 958+62.00 TO STA 960+29.00 LT (167')
 STA 960+57.00 TO STA 961+62.00 RT (105')
 STA 960+67.00 TO STA 961+04.50 LT (37.5')

PROP TRAFFIC BAR TERM T1 (SP)
 STA 958+92.00 TO STA 959+42.00 LT (50')
 STA 960+94.50 TO STA 961+44.50 RT (50')

PROP SPBGR 6' POSTS
 LON STA 959+42.00 TO STA 959+92.00 LT (75')

PROP TRAFFIC BAR TERM TY 6
 LON STA 959+92.00 TO STA 960+29.50 LT (37.5')
 STA 960+57.00 TO STA 960+94.50 RT (37.50')
 STA 960+67.00 TO STA 961+04.50 LT (37.5')

EXIST. CURVE 245
 PI STA = 954+01.38
 $\Delta = 9^\circ 11' 54"$ (RT)
 $AD = 0^\circ 33' 58"$
 $R = 6378.32'$
 $L = 513.10'$
 $T = 1,023.99'$
 $e = 20.60'$
 S.E. RUN = 948.88 28
 P.C. STA = 954+12.27
 P.T. STA = 954+12.27
 PI Sta 954+01.38



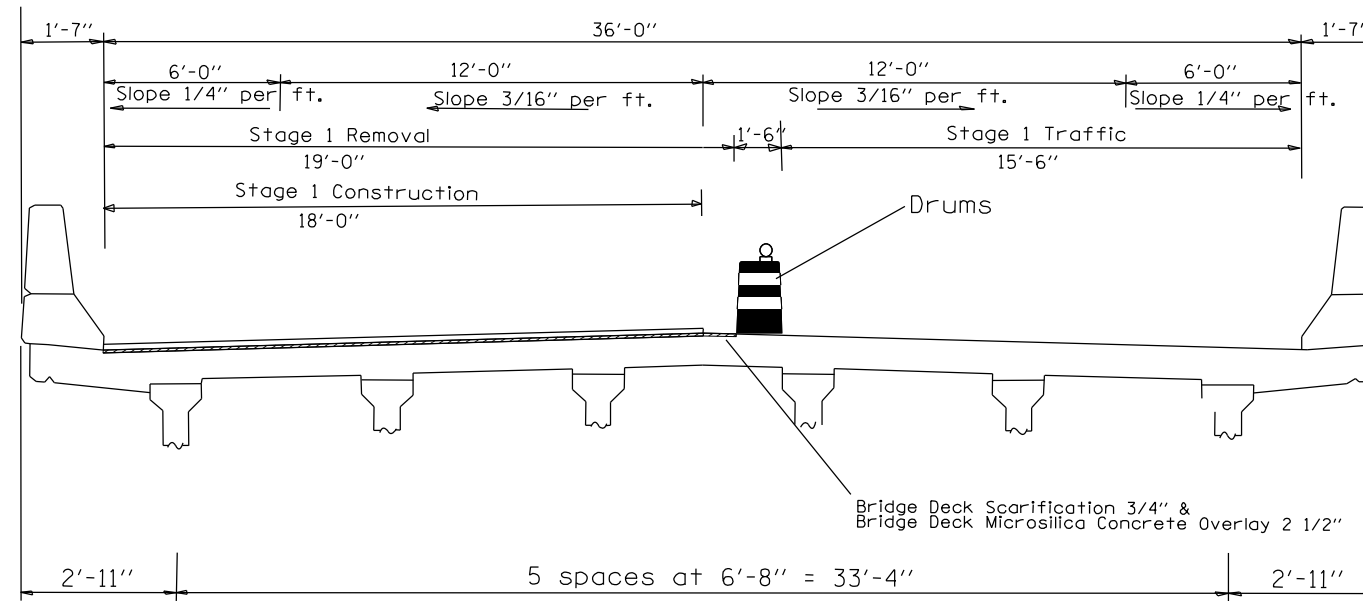
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PLOT DATE = 10/24/2021	DATE -	REVISOR -

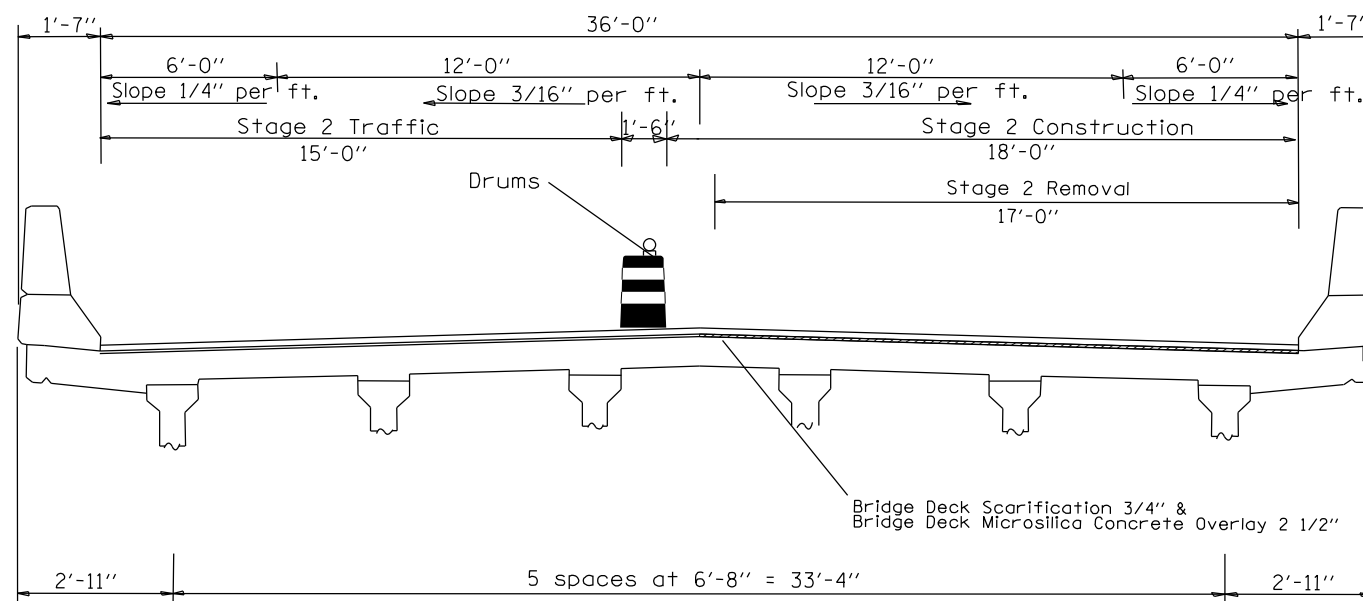
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEET			
TWO MILE CREEK SN 075-0045			
SCALE:	SHEET 4	OF 11 SHEETS	TO STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	8
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



STA 1176+94.17 TO STA 1178+73.17



STA 1176+94.17 TO STA 1178+73.17

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	DRAWN -	REVISED -
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








STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

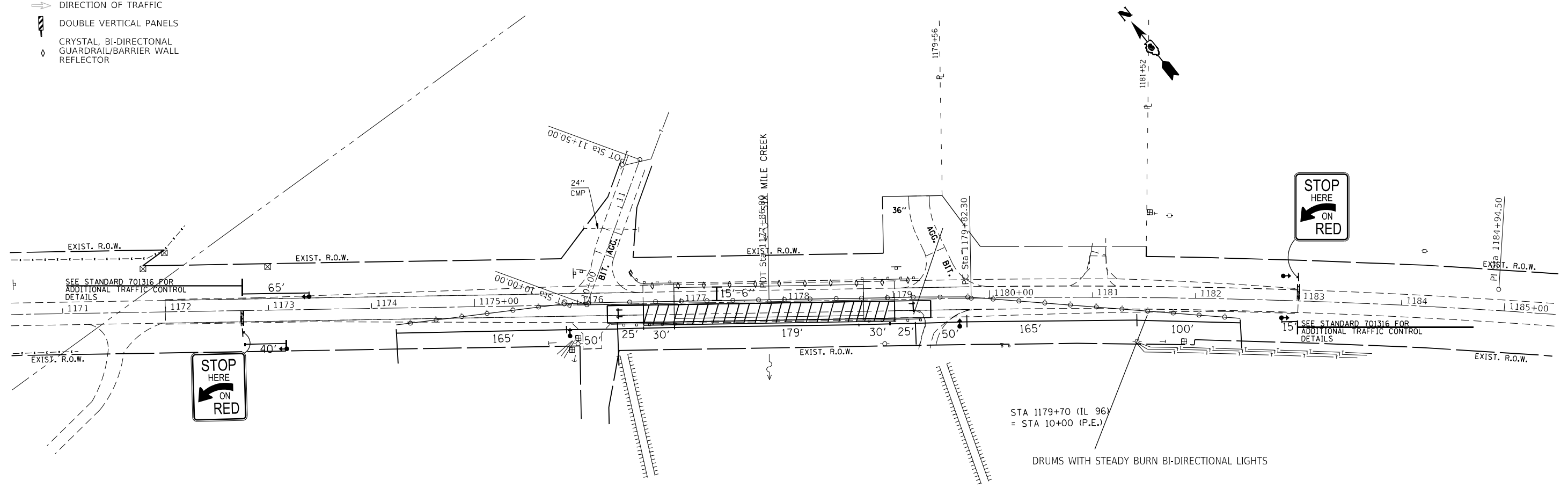
STAGING TYPICAL SECTIONS
SIX MILE CREEK

SCALE: SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4)BDR	PIKE	25	9
CONTRACT NO. 72M27			ILLINOIS FED. AID PROJECT	

LEGEND

-  WORK AREA
-  TYPE 3 BARRICADE WITH FLASHING LIGHTS
-  SIGN
-  DRUM WITH STEADY BI-DIRECTIONAL LIGHTS
-  TEMPORARY RUMBLE STRIPS
-  DETECTOR LOOPS
-  TRAFFIC SIGNALS
-  DRUM
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANELS
-  CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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USER NAME = c0xjw	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2021	DATE -	REVISED -


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

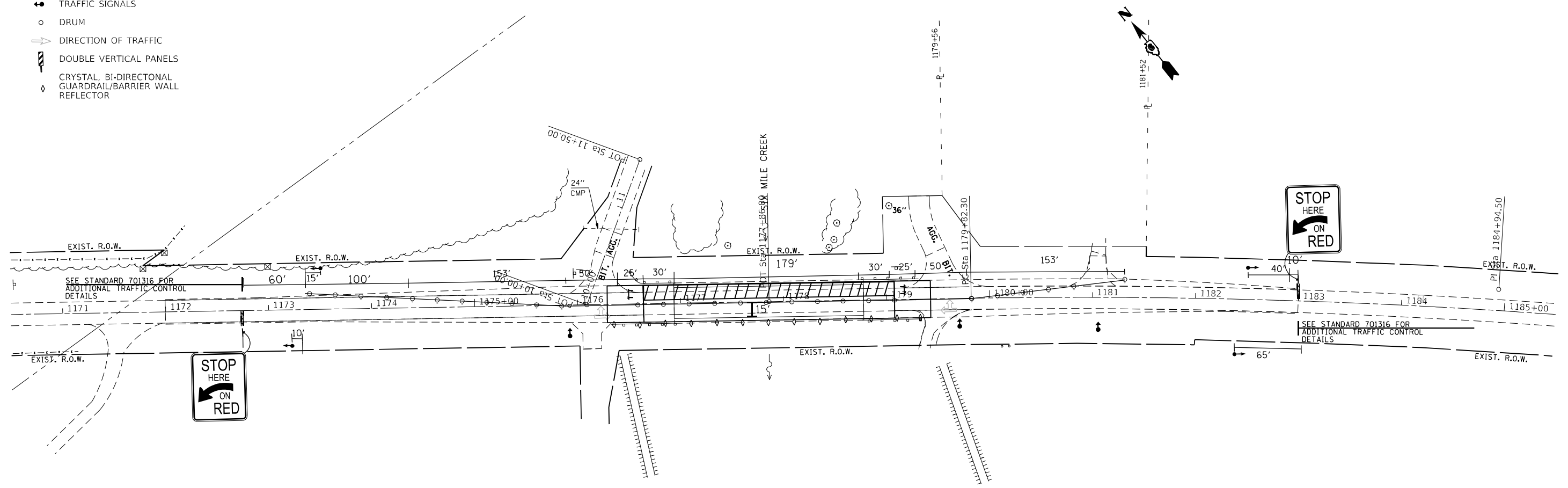
TRAFFIC CONTROL PLAN STAGE 1
SIX MILE CREEK SN 075-0075

SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4)BDR	PIKE	25	10
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  TYPE 3 BARRICADE WITH FLASHING LIGHTS
-  SIGN
-  DRUM WITH STEADY BI-DIRECTIONAL LIGHTS
-  TEMPORARY RUMBLE STRIPS
-  DETECTOR LOOPS
-  TRAFFIC SIGNALS
-  DRUM
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANELS
-  CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



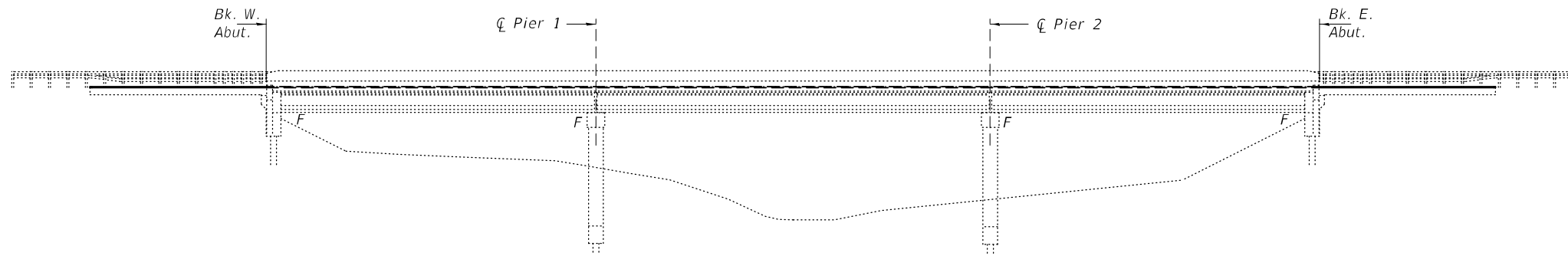
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USER NAME = c0xjw	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/25/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN STAGE 2 SIX MILE CREEK SN 075-0075			
SCALE:	SHEET 9 OF 11 SHEETS	STA.	TO STA.

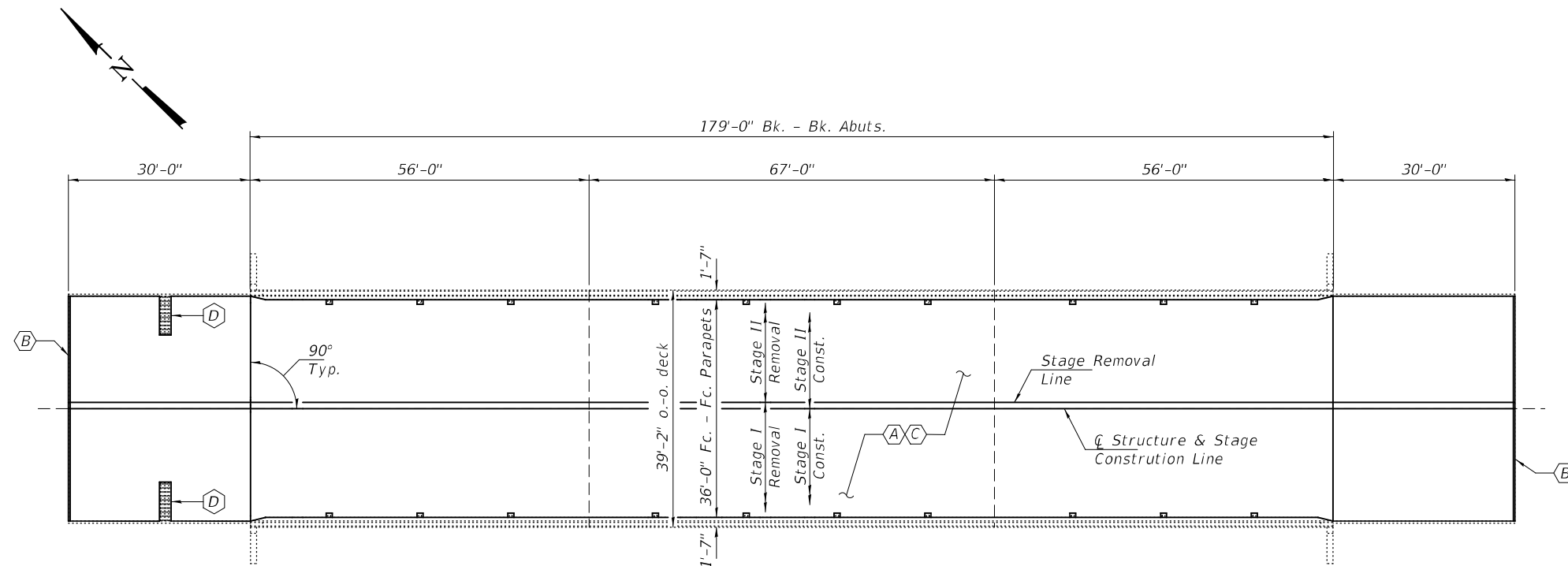
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4)BDR	PIKE	25	11
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



ELEVATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.



PLAN

- (A) - Bridge Deck Scarification $\frac{3}{4}$ " and $2\frac{1}{2}$ " Microsilica Overlay
- (B) - Polymer Concrete Nosing. See Detail B, sheet 2 of 4.
- (C) - Deck Slab Repair. See sheet 3 of 4 for details.
- (D) - Frame and Grate Adjustment

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{2}$ "	Sq. Yd.	976
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	976
Polymer Concrete	Cu. Ft.	5
Bridge Deck Grooving	Sq. Yd.	949
Protective Coat	Sq. Yd.	976
Frames and Grates to be Adjusted	Each	2



EXPIRES 11-30-2022

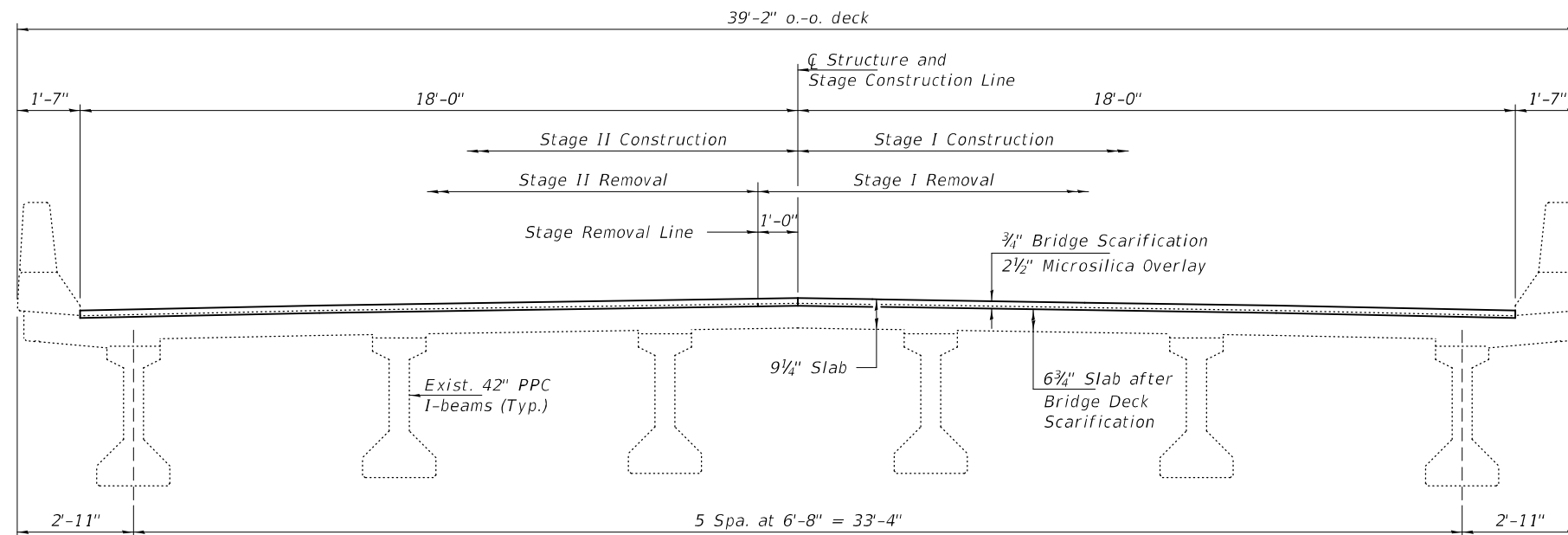
DESIGNED - Chi-Cheung Chau	EXAMINED - <i>Tracy A. Beck</i> ENGINEER OF STRUCTURAL SERVICES	DATE - NOVEMBER 18, 2021
CHECKED - Stephen M. Ryan	PASSED - <i>David Carl Puzey</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - daburdell		REVISED -
CHECKED - CCC SMR		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

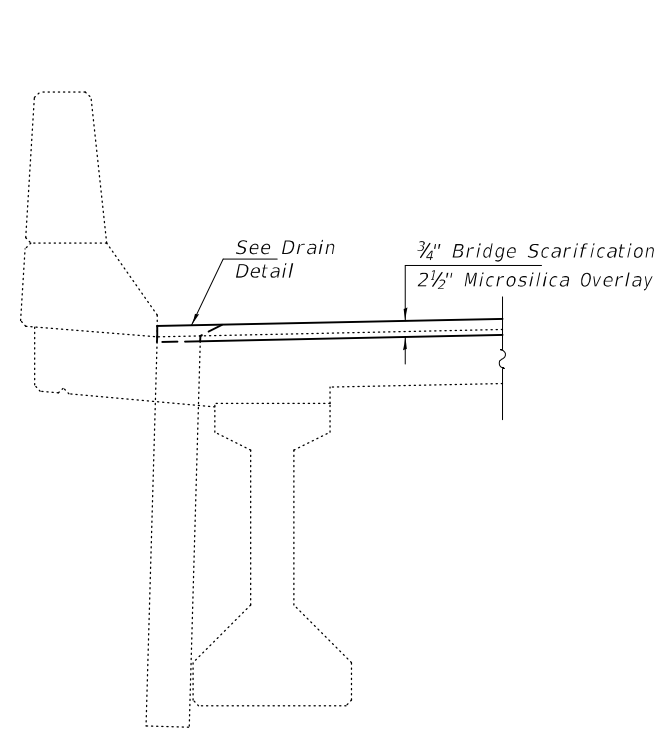
**GENERAL PLAN AND ELEVATION
FAP 304 (IL 96) OVER SIX MILE CREEK
SN 075-0075**

SHEET NO. 1 OF 4 SHEETS

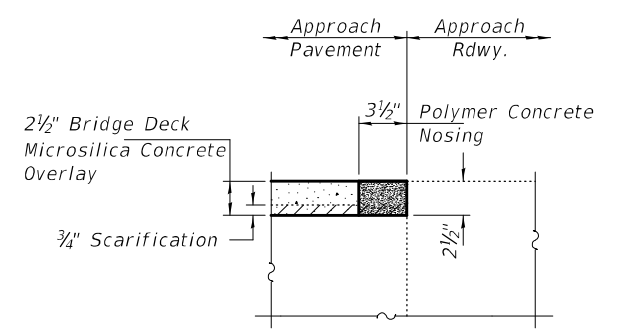
F.A.P. RTE. 304	SECTION (4) BDR	COUNTY PIKE	TOTAL SHEETS 25	SHEET NO. 12
CONTRACT NO. 72M27			ILLINOIS FED. AID PROJECT	



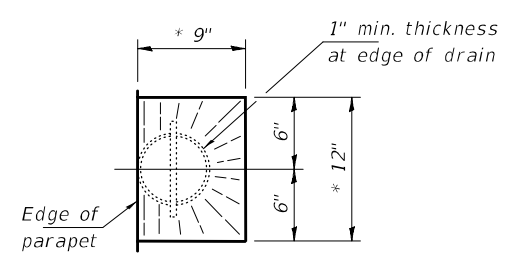
CROSS SECTION
(Looking East)



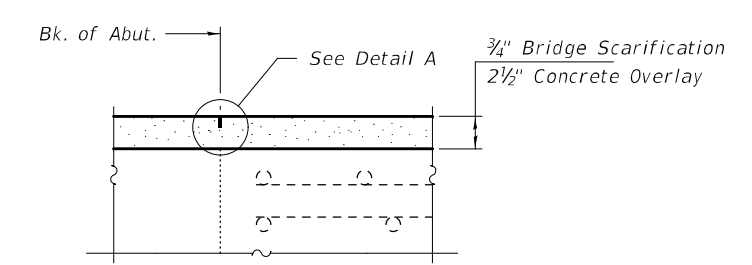
SECTION THRU DECK DRAIN



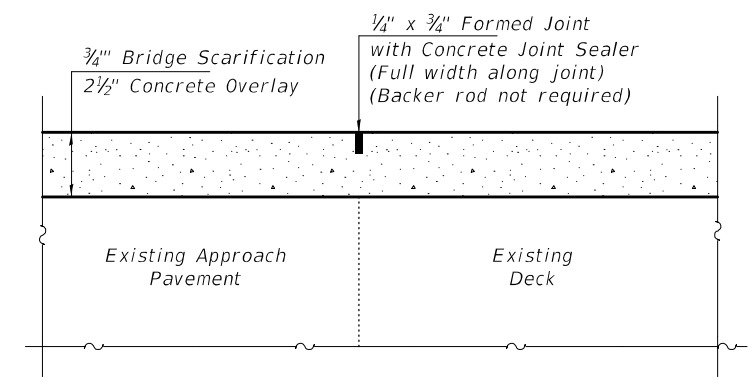
DETAIL B



DRAIN DETAIL
* slope to drain



SECTION AT ABUTMENT



DETAIL A

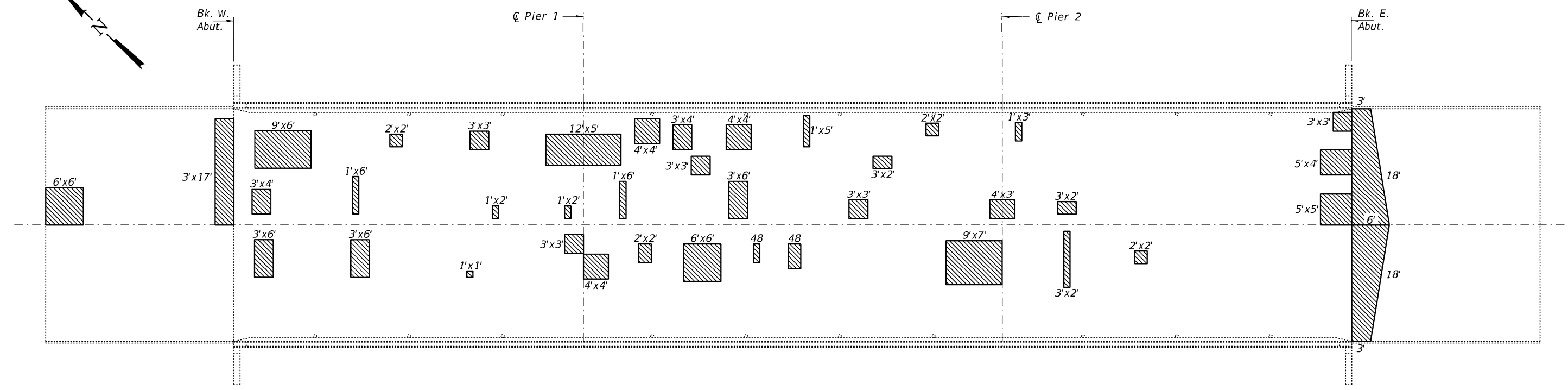
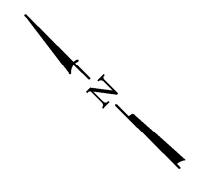
DESIGNED - CCC	EXAMINED - <i>Timothy A. Doolittle</i> ENGINEER OF STRUCTURAL SERVICES	DATE - NOVEMBER 18, 2021
CHECKED - SMR	PASSED - <i>Carl Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - CCC SMR		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


STAGING DETAILS & OVERLAY DETAILS
SN 075-0075

SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	13
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

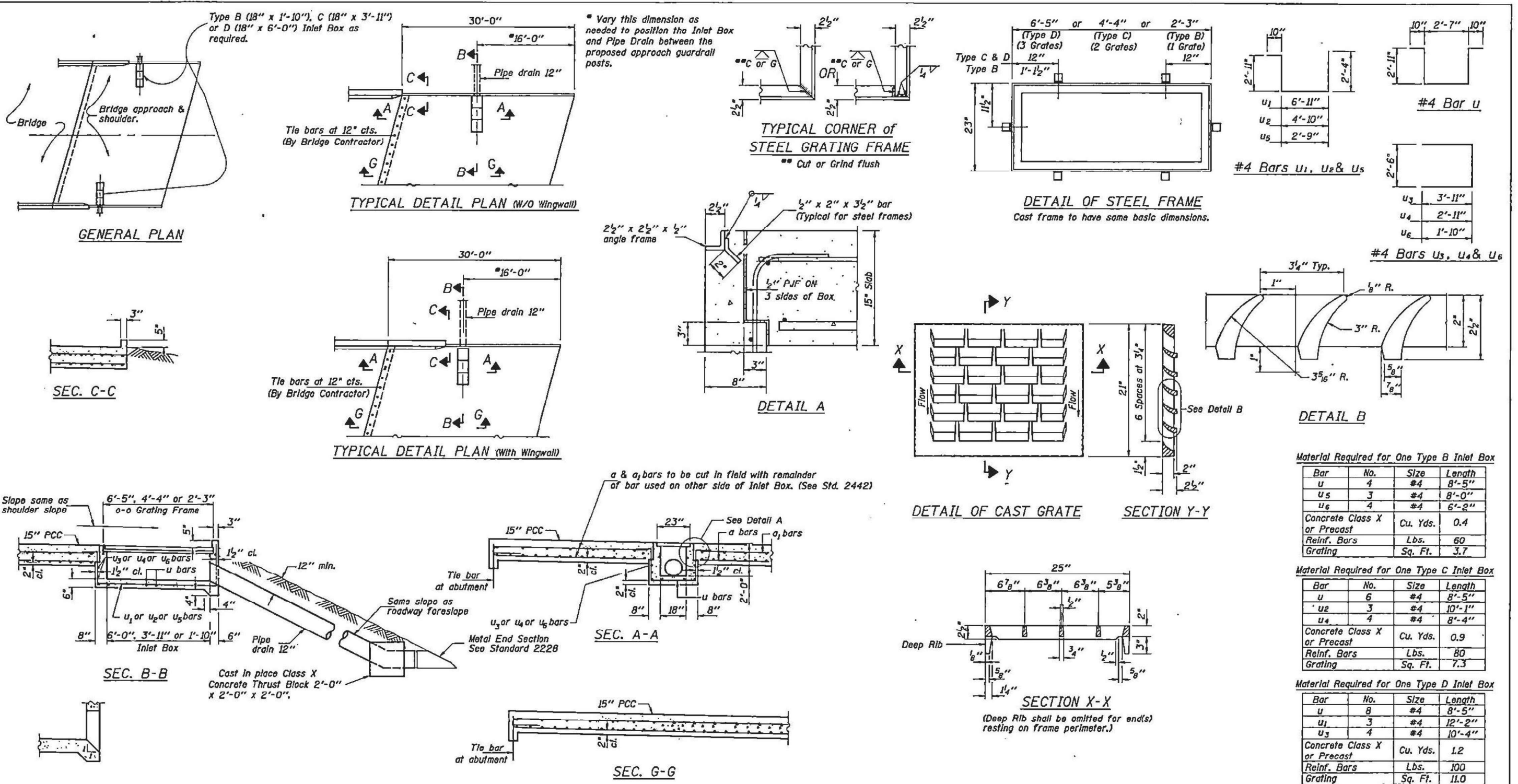


PLAN

LEGEND
 Indicates Deck Slab Repair (For Information Only)

REV. - MS

DESIGNED - CCC	EXAMINED	DATE - NOVEMBER 18, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB REPAIR SN 075-0075	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - SMR	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -			304	(4) BDR	PIKE	25	14	
DRAWN - daburdell	PASSED	REVISED -			CONTRACT NO. 72M27					
CHECKED - CCC SMR	<i>Carl P. ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 3 OF 4 SHEETS					
					ILLINOIS FED. AID PROJECT					



FOR INFORMATION ONLY

INLET TYPE	SHOULDER WIDTH
Type B	Less than 5'
Type C	5'-6'
Type D	Greater than 6'

GENERAL NOTES
All exposed edges of the inlet, except the upper perimeter, shall be beveled 3/4".

BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
STANDARD 2443-1

Illinois Department of Transportation
APPROVED SEPTEMBER 2, 1992
Ralph E. Anderson
Engineer of Bridges and Structures
APPROVED SEPTEMBER 2, 1992
Henry Seid
Engineer of Design and Environment

DESIGNED - CCC
CHECKED - SMR
DRAWN - daburdell
CHECKED - CCC SMR

EXAMINED
Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES
PASSED
Carl R. King
ENGINEER OF BRIDGES AND STRUCTURES

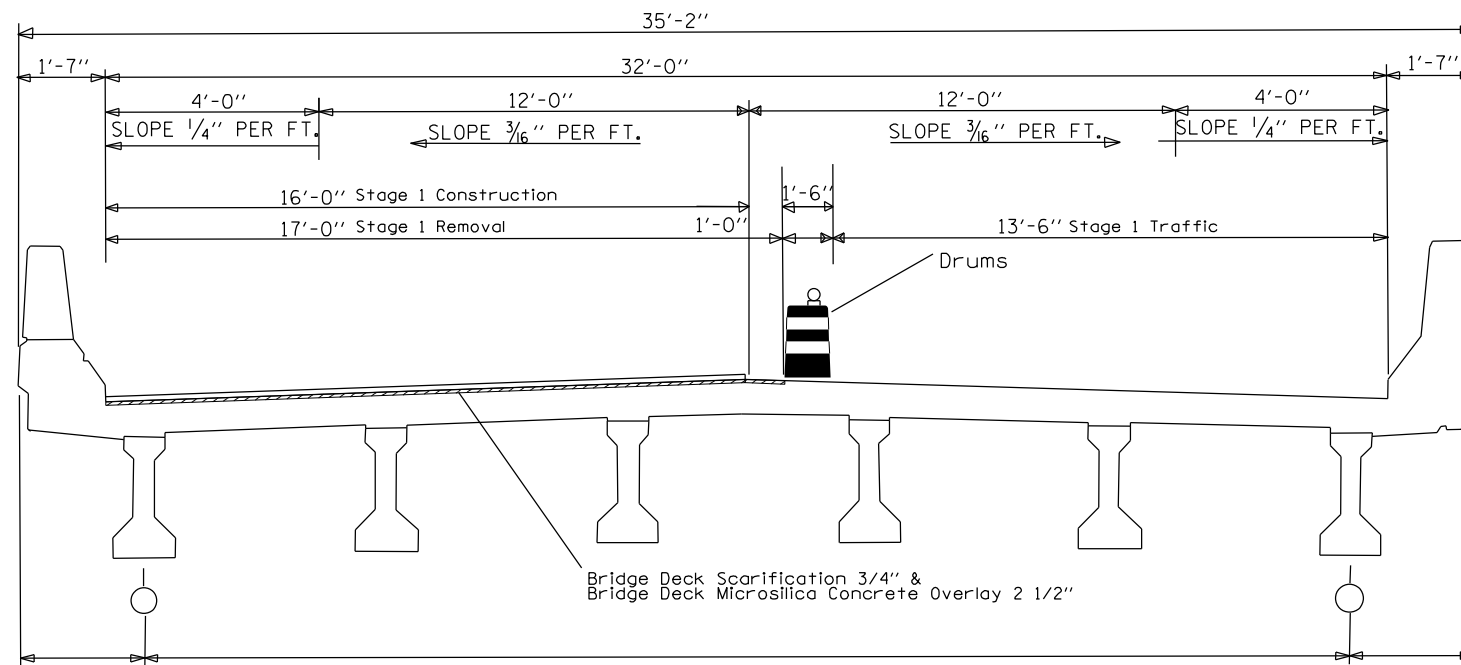
DATE - NOVEMBER 18, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

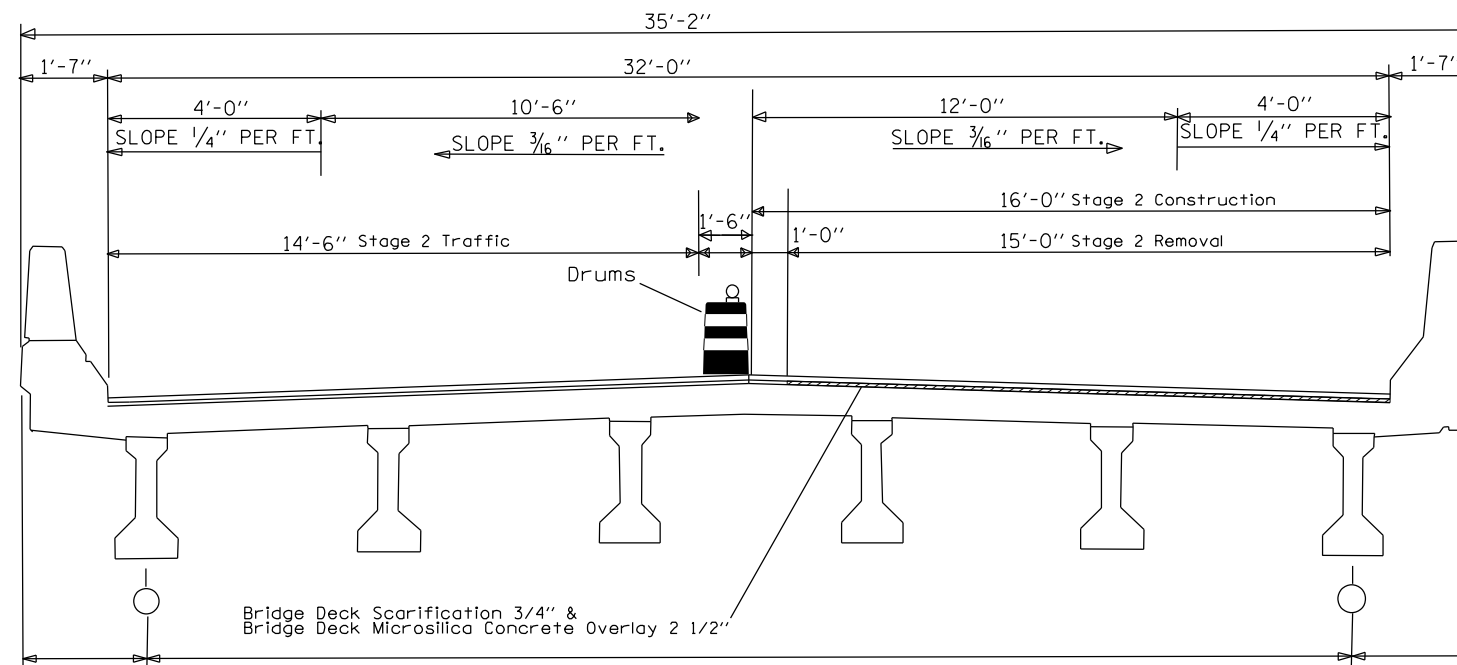
BRIDGE APPROACH DRAIN DETAIL - FOR INFORMATION ONLY
SN 075-0075
SHEET NO. 4 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	15
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

H-101
D 6011



STA. 960+22.09 TO STA. 960+66.13



STA. 960+22.09 TO STA. 960+66.13

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	DRAWN -	REVISED -
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PLOT DATE = 10/25/2021	DATE -	REVISED -




STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

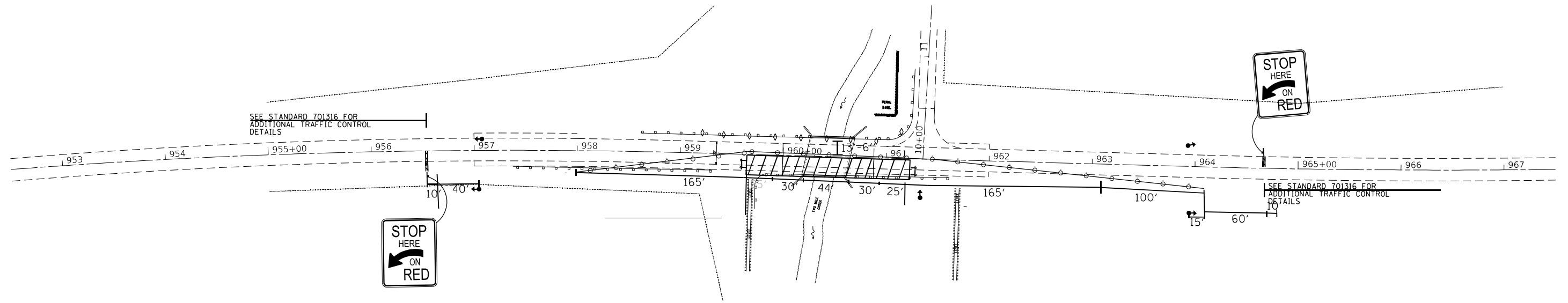
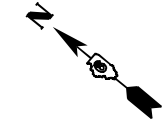
STAGING TYPICAL SECTIONS
TWO-MILE CREEK SN 075-0045

SCALE: SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	16
CONTRACT NO. 72M27			ILLINOIS FED. AID PROJECT	

LEGEND

-  WORK AREA
-  TYPE 3 BARRICADE WITH FLASHING LIGHTS
-  SIGN
-  DRUM WITH STEADY BI-DIRECTIONAL LIGHTS
-  TEMPORARY RUMBLE STRIPS
-  DETECTOR LOOPS
-  TRAFFIC SIGNALS
-  DRUM
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANELS
-  CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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








STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

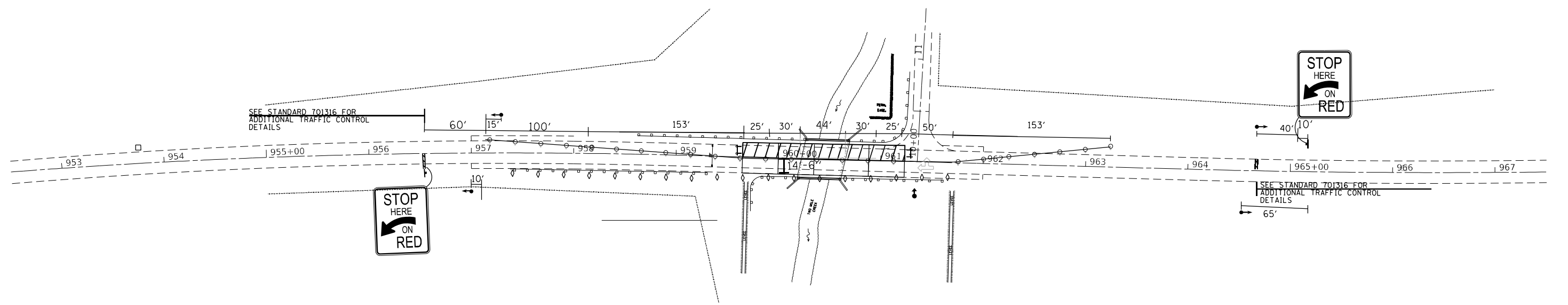
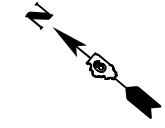
TRAFFIC CONTROL PLAN STAGE 1
TWO MILE CREEK SN 075-0045

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	17
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

LEGEND

-  WORK AREA
-  TYPE 3 BARRICADE WITH FLASHING LIGHTS
-  SIGN
-  DRUM WITH STEADY BI-DIRECTIONAL LIGHTS
-  TEMPORARY RUMBLE STRIPS
-  DETECTOR LOOPS
-  TRAFFIC SIGNALS
-  DRUM
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANELS
-  CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/25/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2
TWO MILE CREEK SN 075-0045

SCALE: SHEET 9 OF 11 SHEETS STA. TO STA.

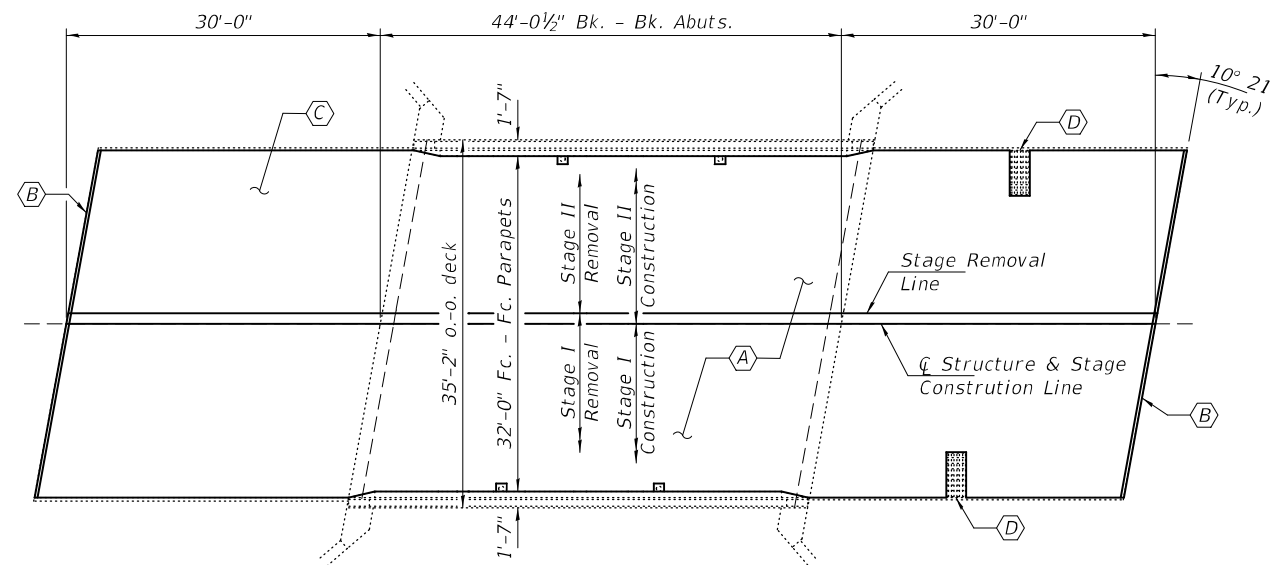
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	18
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



ELEVATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.



PLAN

- (A) - Bridge Deck Scarification $\frac{3}{4}$ " and $2\frac{1}{2}$ " Microsilica Overlay
- (B) - Polymer Concrete Nosing. See Detail B, sheet 2 of 5.
- (C) - Deck Slab Repair. See sheet 3 of 5 for details.
- (D) - Frame and Grate Adjustment

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{2}$ "	Sq. Yd.	391
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	391
Polymer Concrete	Cu. Ft.	4.0
Bridge Deck Grooving	Sq. Yd.	366
Protective Coat	Sq. Yd.	391
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	48
Frames and Grates to be Adjusted	Each	2



EXPIRES 11-30-2022

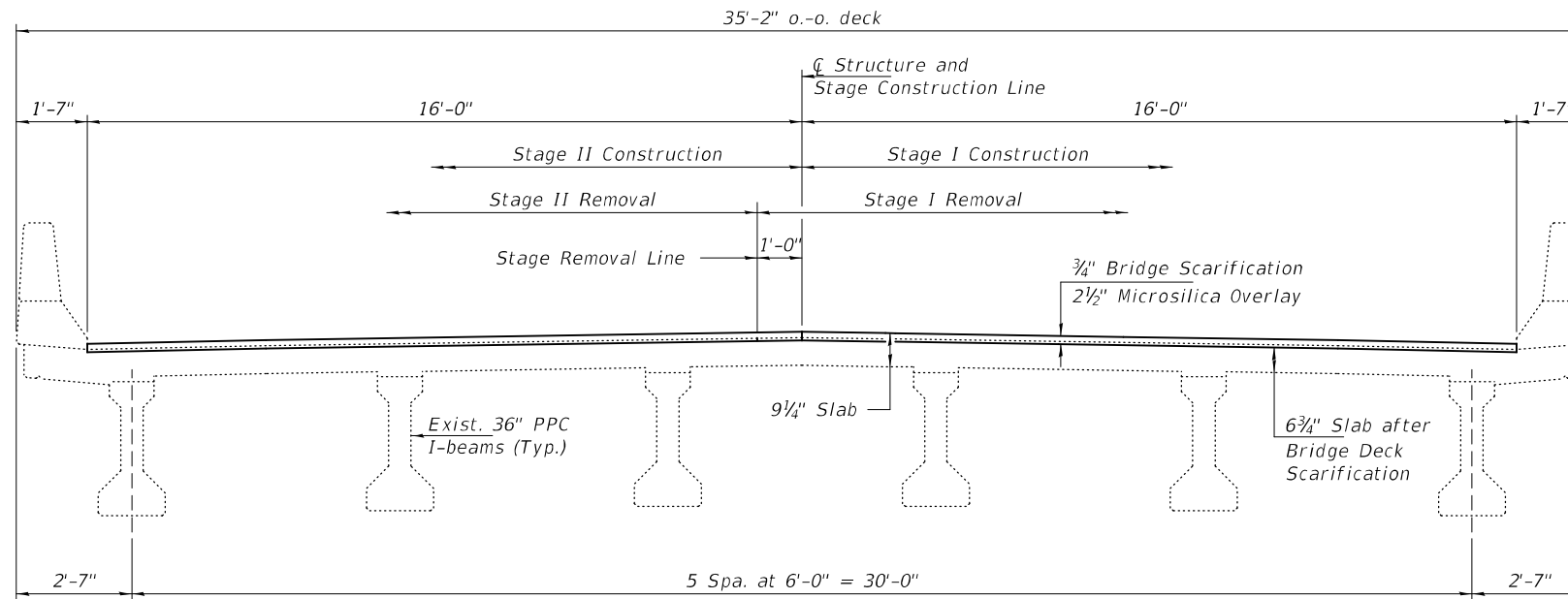
DESIGNED - Chi-Cheung Chau	EXAMINED - <i>Trig A. Bick</i>	DATE - NOVEMBER 18, 2021
CHECKED - Stephen M. Ryan	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Sh. Carl Puze</i>	REVISED -
CHECKED - CCC SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

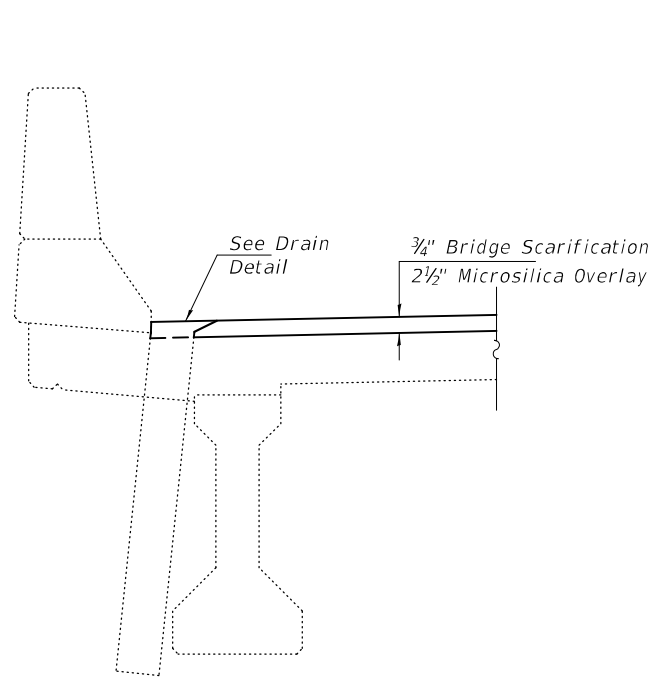
**GENERAL PLAN AND ELEVATION
FAP 304 (IL 96) OVER TWO MILE CREEK
SN 075-0045**

F.A.P. RTE. 304	SECTION (4) BDR	COUNTY PIKE	TOTAL SHEETS 25	SHEET NO. 19
CONTRACT NO. 72M27				
ILLINOIS		FED. AID PROJECT		

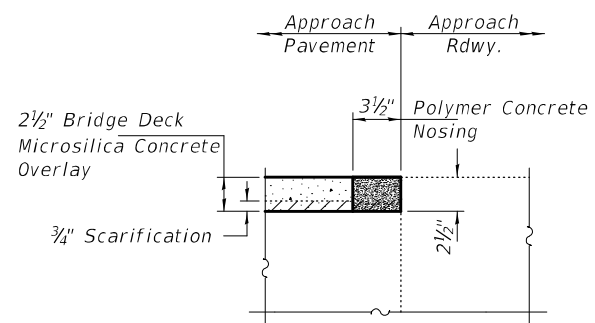
SHEET NO. 1 OF 5 SHEETS



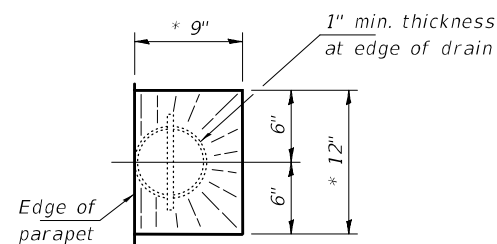
CROSS SECTION
(Looking South)



SECTION THRU DECK DRAIN

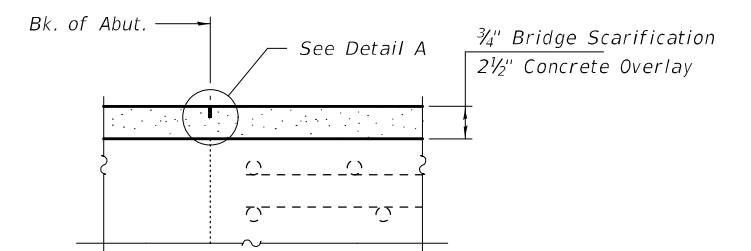


DETAIL B

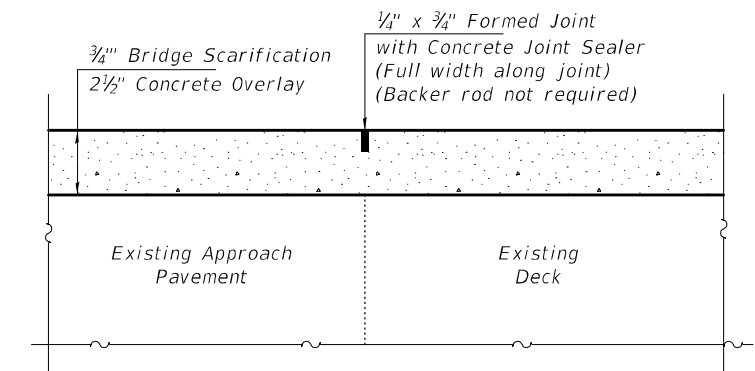


DRAIN DETAIL

* slope to drain

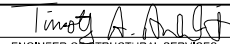
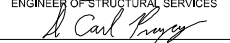


SECTION AT ABUTMENT



DETAIL A

DESIGNED - CCC
CHECKED - SMR
DRAWN - daburdell
CHECKED - CCC SMR

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

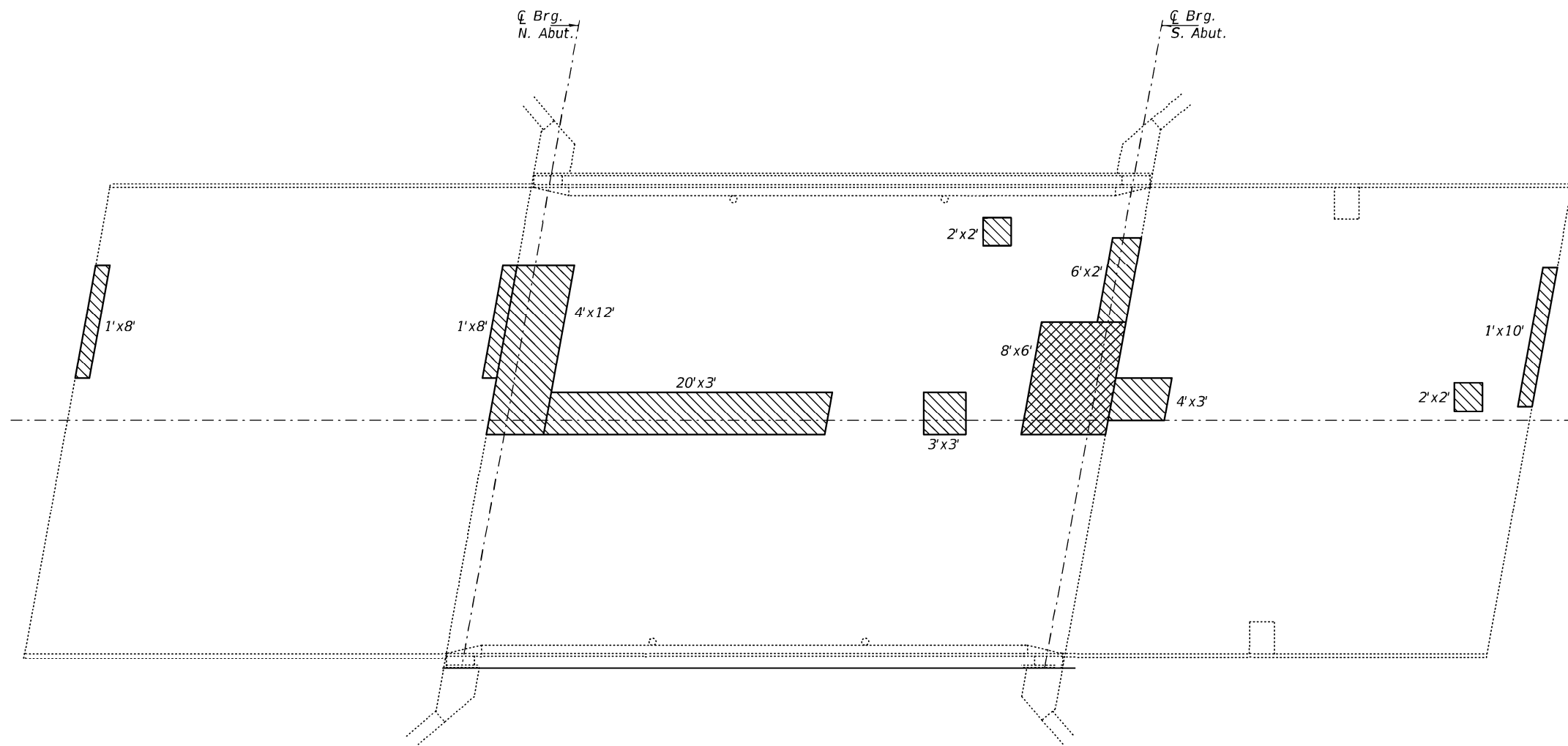
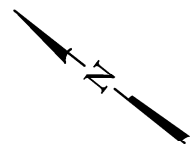
DATE - NOVEMBER 18, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS & OVERLAY DETAILS
SN 075-0045


SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	20
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



PLAN

LEGEND



 Indicates Deck Slab Repair (For Information Only)

 Indicates Deck Slab Repair (Full Depth)

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	48

REV. - MS

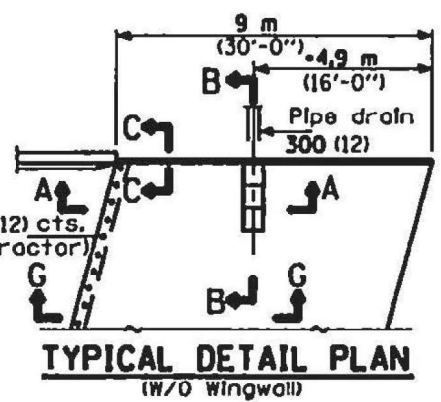
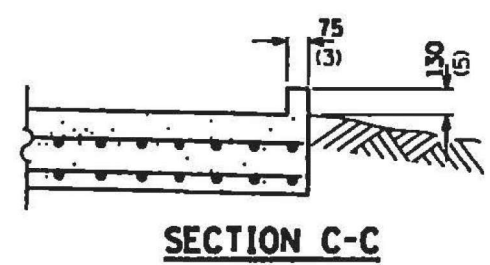
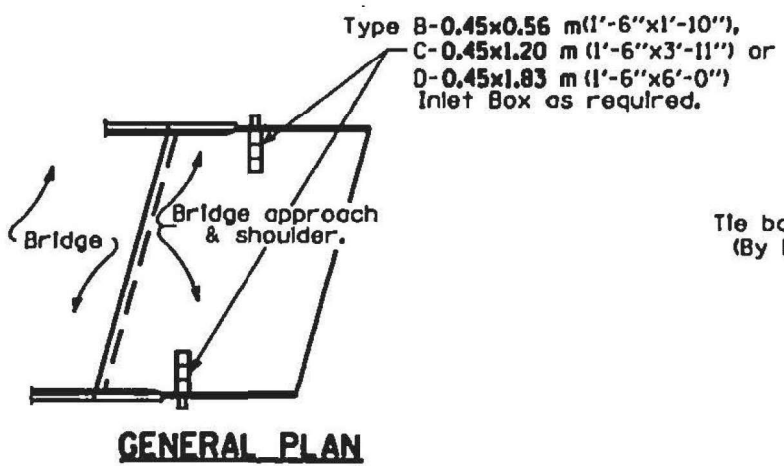
DESIGNED - CCC	EXAMINED	DATE - NOVEMBER 18, 2021
CHECKED - SMR	 ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - CCC SMR	 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

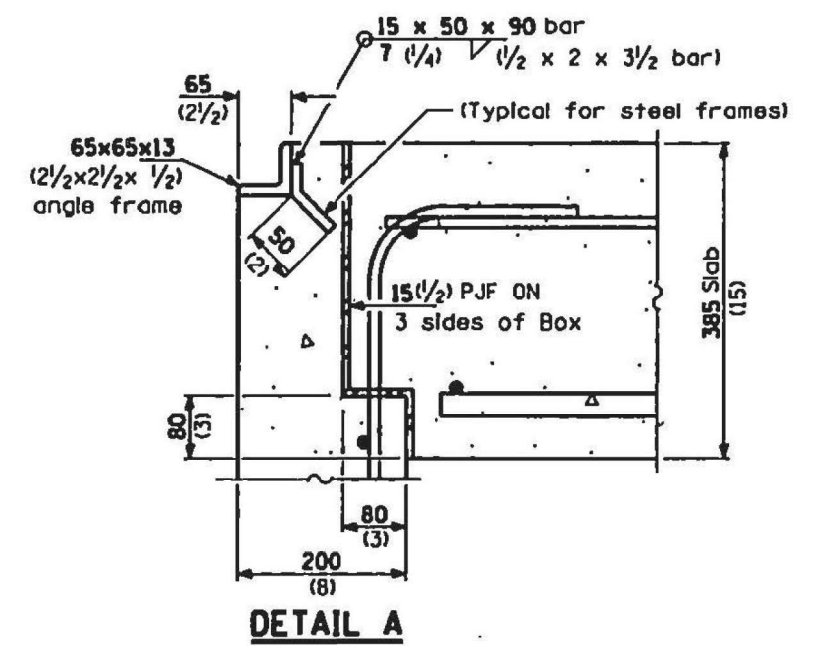
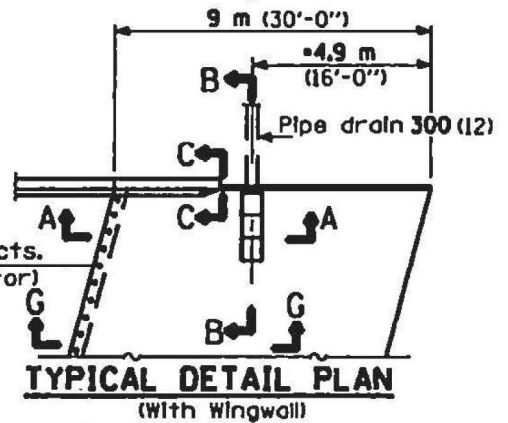
DECK SLAB REPAIR
SN 075-0045

SHEET NO. 3 OF 5 SHEETS

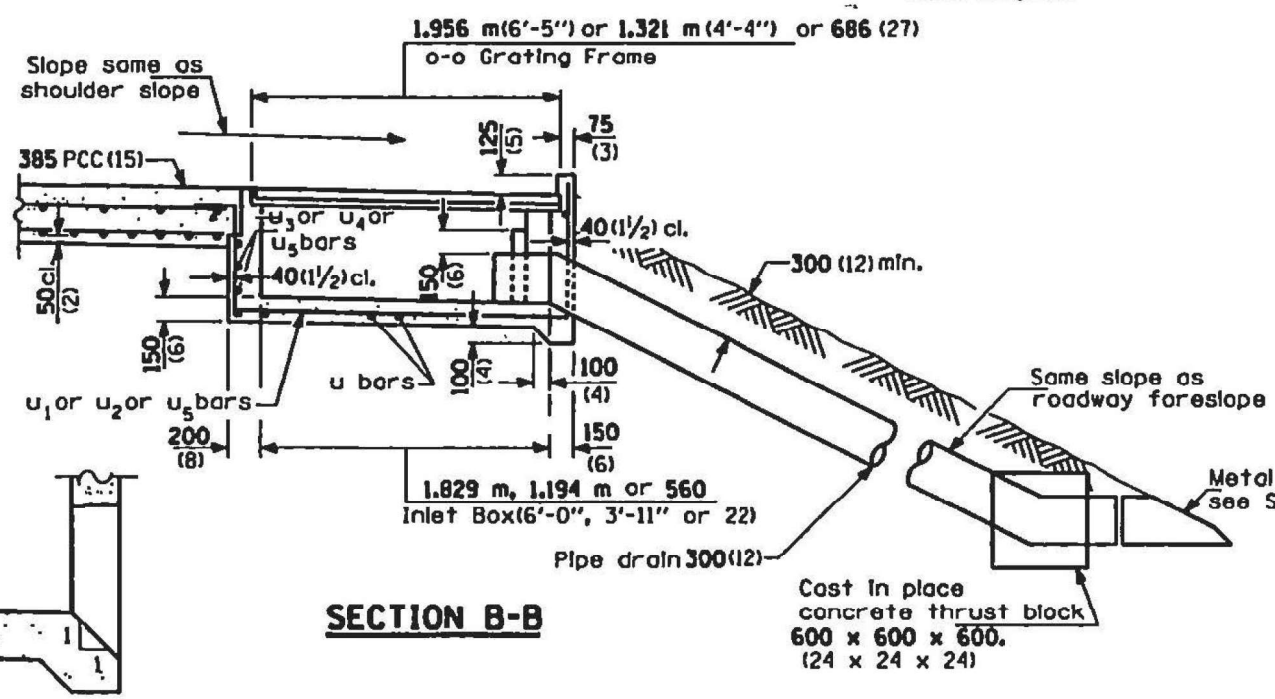
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M27	



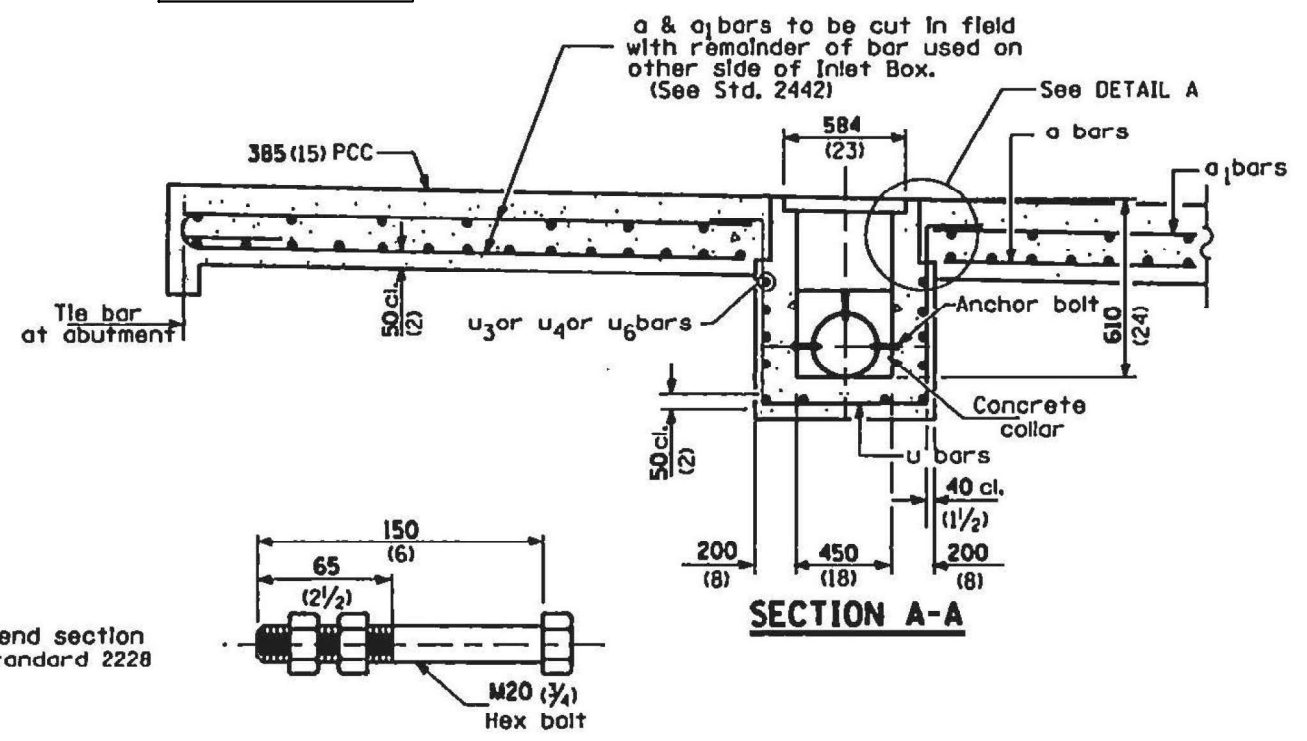
* Vary this dimension as needed to position the Inlet Box and Pipe Drain between the proposed approach guardrail posts.



FOR INFORMATION ONLY



BOX OUTLET WHEN PRECAST



ANCHOR BOLT

(Used to tie pipe to concrete collar)

GENERAL NOTES

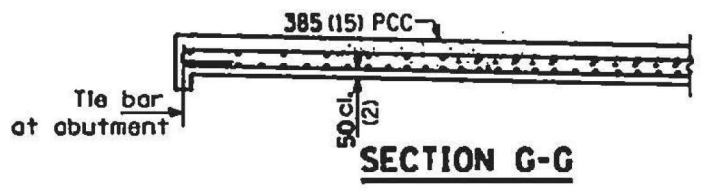
All exposed edges of the Inlet, except the upper perimeter, shall be beveled 20 mm (3/4 inch).

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

Illinois Department of Transportation

APPROVED *Ralph E. Anderson* 13 1994
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED *John J. Gault* 13 1994
ENGINEER OF DESIGN AND ENVIRONMENT



INLET TYPE	SHOULDER WIDTH
Type B	Less than 1.5 m (5'-0")
Type C	1.7 m (5'-6")
Type D	Greater than 1.8 m (6'-0")

DATE	REVISIONS
6-15-94	Added anchor bolt and concrete collar.
	Added Metric.

BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
(Sheet 1 of 2)

STANDARD 2443-2

I-1.09

DESIGNED - CCC
CHECKED - SMR
DRAWN - daburdell
CHECKED - CCC SMR

EXAMINED *Timothy A. Daulton*
ENGINEER OF STRUCTURAL SERVICES

PASSED *Carl R. Ringer*
ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 18, 2021

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

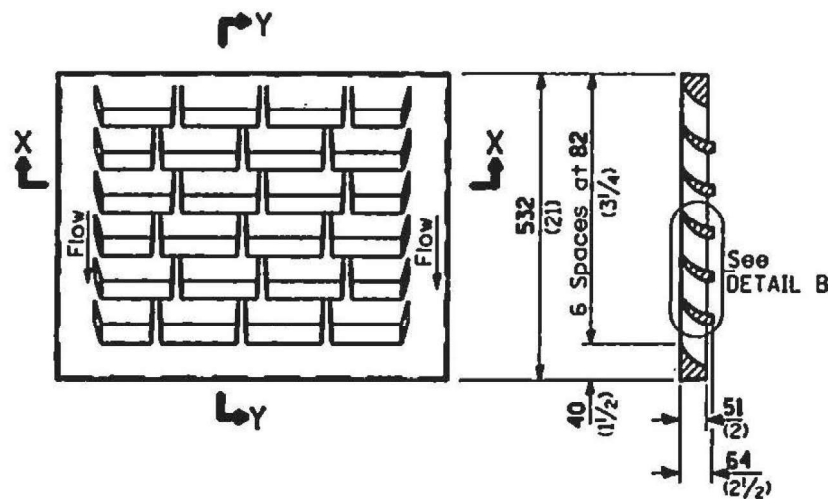
BRIDGE APPROACH DRAIN DETAIL - FOR INFORMATION ONLY
SN 075-0045

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	22

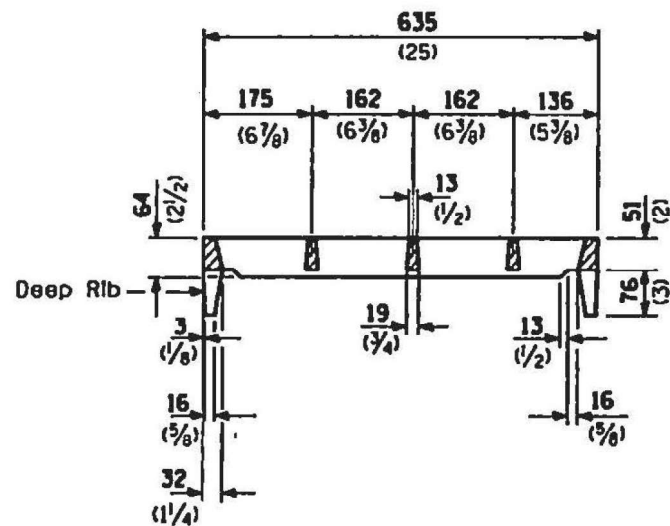
CONTRACT NO. 72M27

ILLINOIS FED. AID PROJECT



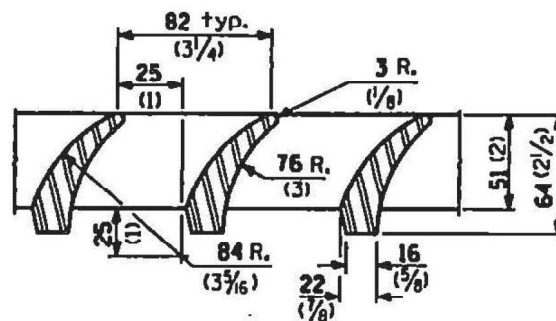
DETAIL OF CAST GRATE

Type B requires 1 grate
 Type C requires 2 grates
 Type D requires 3 grates



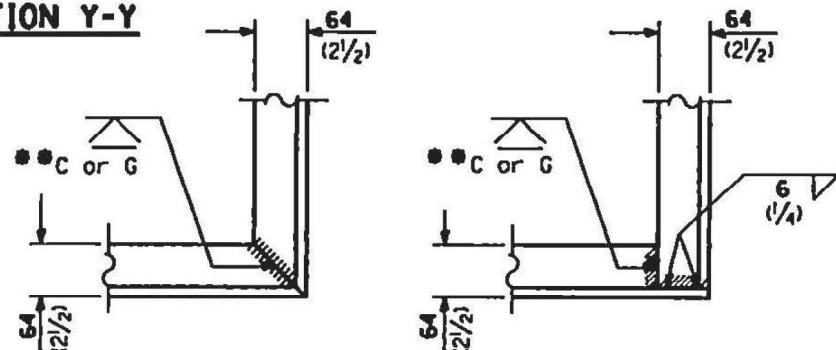
SECTION X-X

(Deep rib shall be omitted for end(s) resting on frame perimeter.)



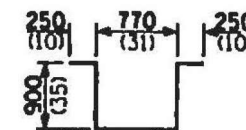
DETAIL B

SECTION Y-Y

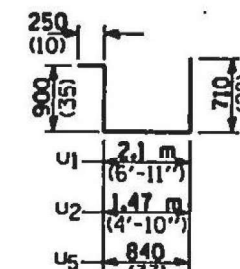


TYPICAL CORNER OF STEEL GRATING FRAME

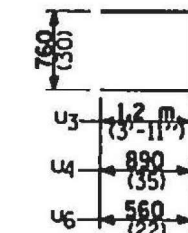
••Cut or Grind flush



Bar U



Bars U1, U2 & U3



Bars U3, U4 & U6

Material Required for One Type B Inlet Box

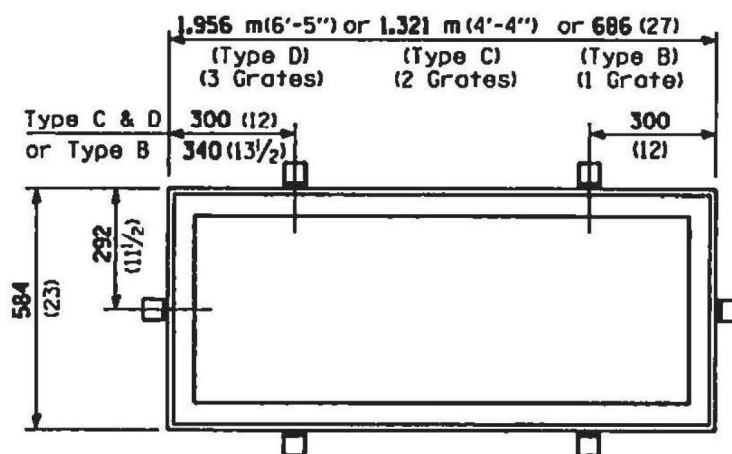
Bar	No.	Size	Length
u	4	No. 15 (No. 4)	3.09 m (10'-1")
u5	3	No. 15 (No. 4)	2.7 m (8'-10")
u6	4	No. 15 (No. 4)	1.88 m (6'-2")
Concrete - cast in place or Precast	m ³ (cu. yds.)		0.3 (0.4)
Reinf. Bars	kg (lbs.)		40 (60)
Grating	m ² (sq. ft.)		0.4 (3.7)

Material Required for One Type C Inlet Box

Bar	No.	Size	Length
u	6	No. 15 (No. 4)	3.09 m (10'-1")
u2	3	No. 15 (No. 4)	3.3 m (10'-11")
u4	4	No. 15 (No. 4)	2.54 m (8'-4")
Concrete - cast in place or Precast	m ³ (cu. yds.)		0.7 (0.9)
Reinf. Bars	kg (lbs.)		60 (80)
Grating	m ² (sq. ft.)		0.8 (7.3)

Material Required for One Type D Inlet Box

Bar	No.	Size	Length
u	8	No. 15 (No. 4)	3.09 m (10'-1")
u1	3	No. 15 (No. 4)	3.96 m (13'-2")
u3	4	No. 15 (No. 4)	3.14 m (10'-4")
Concrete - cast in place or Precast	m ³ (cu. yds.)		0.9 (1.2)
Reinf. Bars	kg (lbs.)		80 (100)
Grating	m ² (sq. ft.)		1.1 (11.0)



DETAIL OF STEEL FRAME

Cast frame to have same basic dimensions.

FOR INFORMATION ONLY

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

BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)

(Sheet 2 of 2)

STANDARD 2443-2

H-110

Illinois Department of Transportation

APPROVED *Ralph E. Anderson* 13 1994
 ENGINEER OF BRIDGES AND STRUCTURES

APPROVED *John J. Helt* 13 1994
 ENGINEER OF DESIGN AND ESTIMATION

DESIGNED - CCC
 CHECKED - SMR
 DRAWN - daburdell
 CHECKED - CCC SMR

EXAMINED *Timothy A. Daulton*
 ENGINEER OF STRUCTURAL SERVICES

PASSED *Carl R. Boyer*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 18, 2021

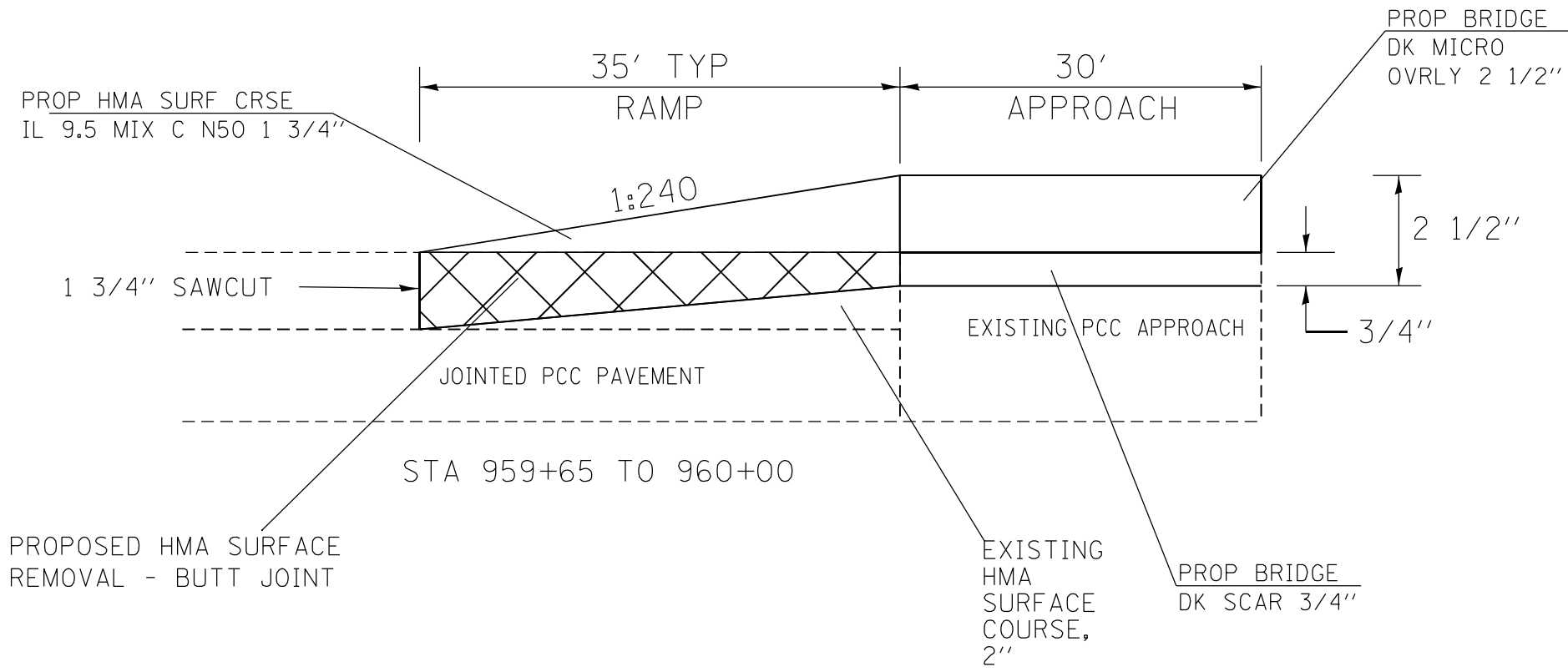
REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

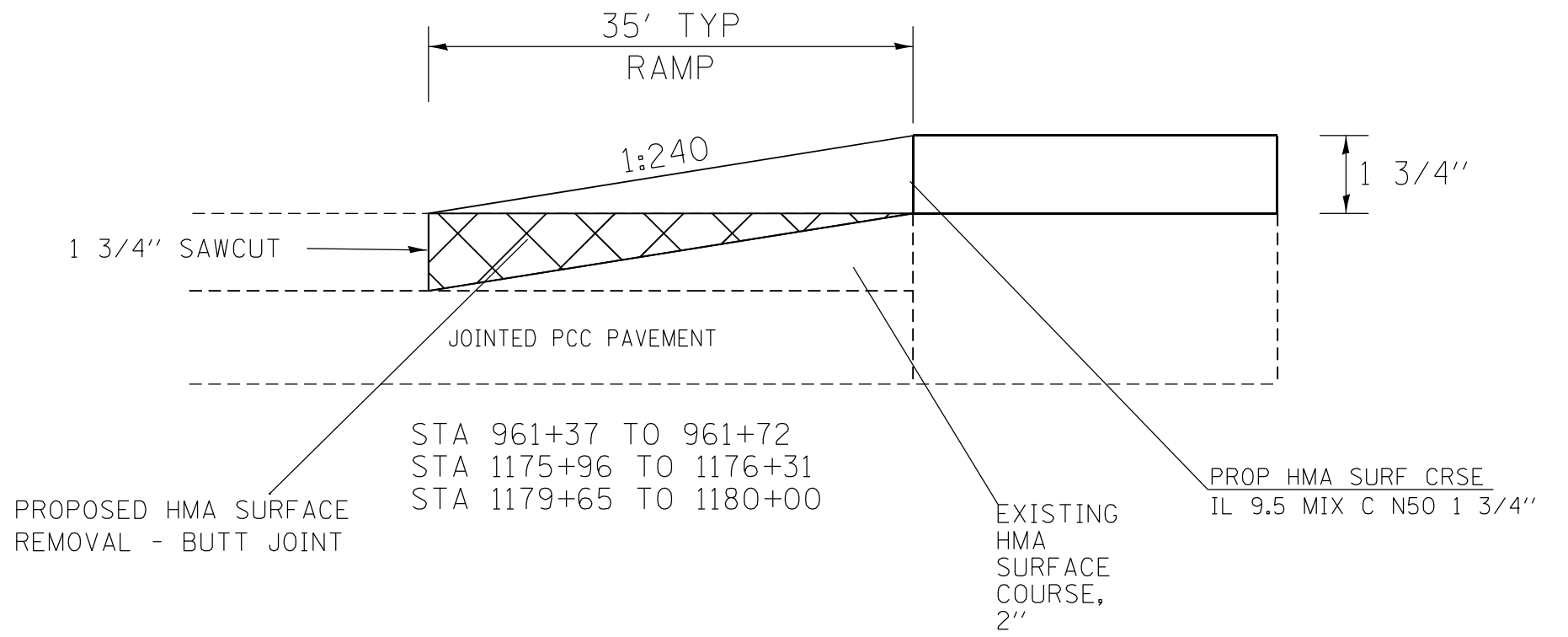
BRIDGE APPROACH DRAIN DETAIL - FOR INFORMATION ONLY
 SN 075-0045

SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(4) BDR	PIKE	25	23
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



BUTT JOINT DETAIL



BUTT JOINT DETAIL

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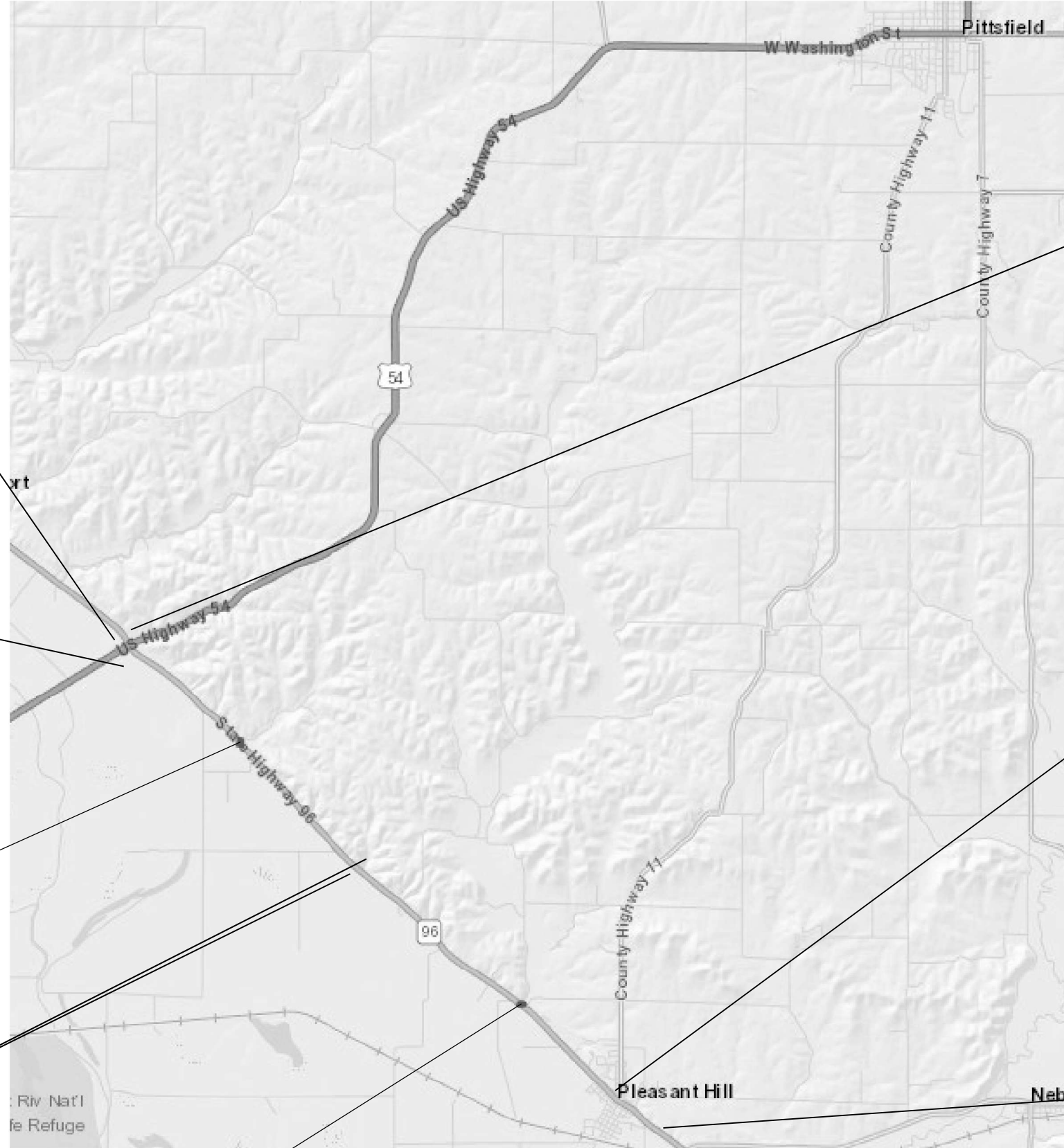
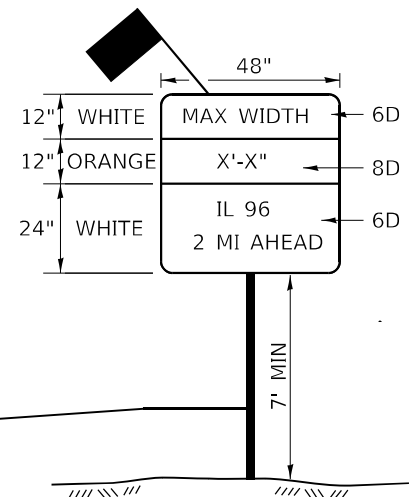
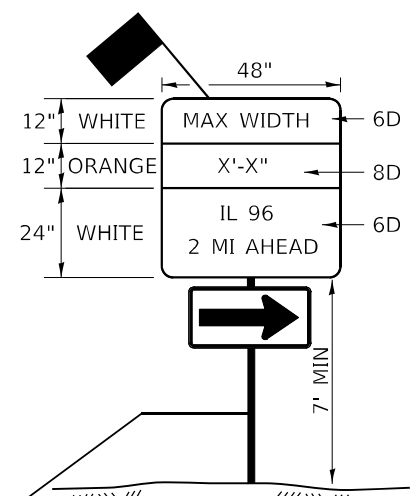
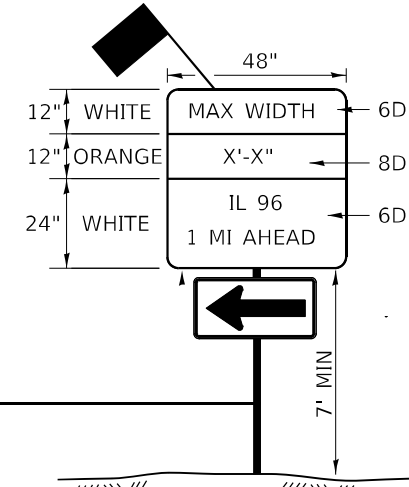
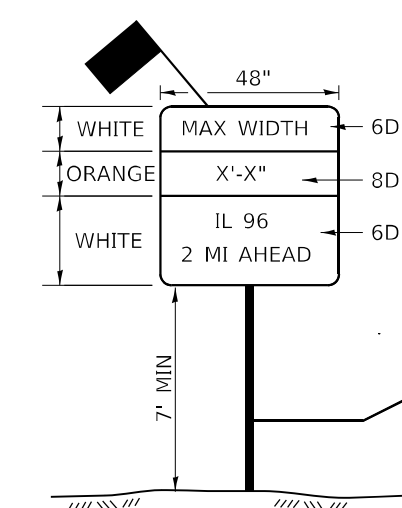
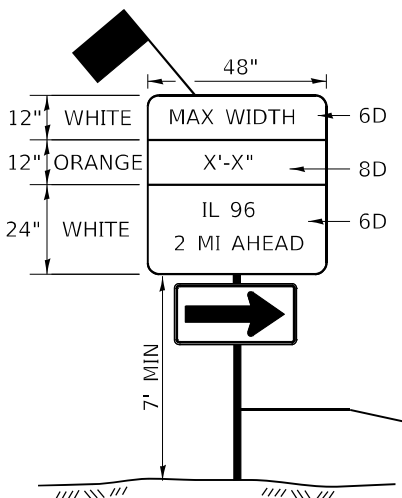
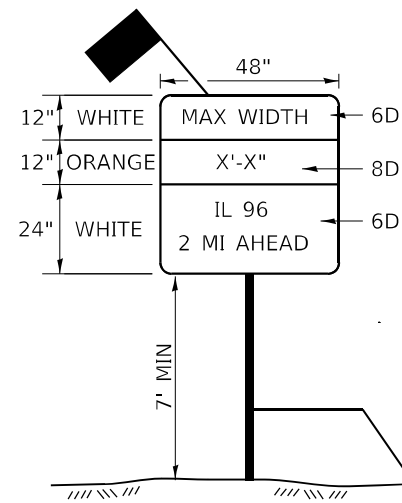
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		PIKE	25	24
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				



SN 075-0045

SN 075-0075

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAX WIDTH SIGNS - IL 96

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	(3,4) BDR	PIKE	25	25
CONTRACT NO. 72M27				
ILLINOIS FED. AID PROJECT				