02-28-14 LETTING ITEM 028

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

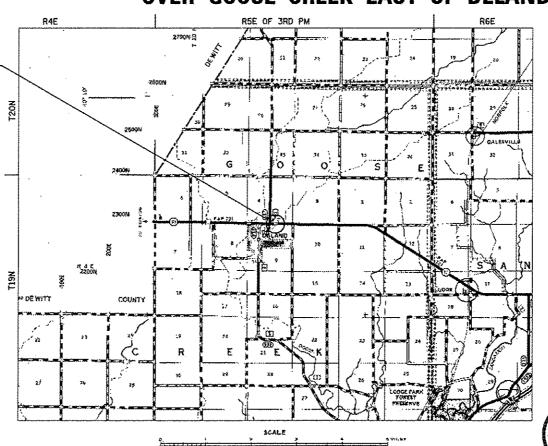
FOR SUMMARY OF QUANTITIES, SEE SHEETS 3 - 6

PROPOSED HIGHWAY PLANS

FAP ROUTE 721 (IL 10) SECTION (115BR) BR PROJECT ACF-0721 (083) PIATT COUNTY

C-95-076-04

SUPERSTRUCTURE REPLACEMENT OVER GOOSE CREEK EAST OF DELAND



GROSS LENGTH = 114.42 FT. = 0.0217 MILE NET LENGTH = 114.42 FT. = 0.0217 MILE

ILLEMOIS PROFESSIONAL NO 43208 EXPIRES 11-30-11 DATE: 7-15-11 D-95-072-04



Coombe-Bloxdorf P.C.
-civil engineers-structural engineers-land surveyorsDesign Firm License No. 184-002703

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 31 20 13

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MINOR ARTERIAL

ADT = 1900 (2026)

SU = 9.5% MU = 4.9%

PC = 85,6

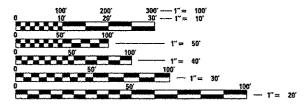
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SECTION (115BR) BR INCLUDES; —
EX SUPERSTRUCTURE OF
SN 074-0003 AT STA 925+86.00
CARRYING FAP RTE 721 (IL 10)
OVER GOOSE CREEK TO BE
REMOVED AND REPLACED
IMPROVEMENT BEGINS
STA 925+28.89
IMPROVEMENT ENDS
STA 926+43.31



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

GOOSE CREEK TWP.

PROJECT ENGINEER JASON STULTS PROJECT MANAGER RUSTIN KEYS PHONE: (217) 465–4181

CONTRACT NO. 70432

## **INDEX OF SHEETS**

COVER SHEET

INDEX OF SHEETS, HIGHWAY STANDARDS, CENERAL NOTES SUMMARY OF QUANTITIES

TYPICAL SECTIONS
SCHEDULE OF QUANTITIES

PLAN AND PROFILE

10-11 STAGING AND TRAFFIC CONTROL 12-29 STRUCTURE PLANS

WIDTH RESTRICTION SIGNING

PAVEMENT MARKING & MARKERS

36-39 CROSS SECTIONS

## HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT TEMPORARY EROSION CONTROL SYSTEMS 001006 280001-07 PAVEMENT JOINTS
BRIDGE APPROACH PAVEMENT CONNECTOR
BAR REINFORCEMENT FOR CRC PAVEMENT 420001-07 420401-10 421001-02 515001-03 NAME PLATE FOR BRIDGES 630001-10 STEEL PLATE BEAM GUARDRAIL 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 631032-08 TRAFFIC BARRIER TERMINAL, TYPE 6A 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS 667101-02 PERMANENT SURVEY MARKERS 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONSDAY ONLY
701321-13 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701901-03 TRAFFIC CONTROL DEVICES
TEMPORARY CONCRETE BARRIER 704001 - 07 TYPICAL PAVEMENT MARKINGS 780001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS DETECTOR LOOP INSTALLATIONS TYPICAL LAYOUT FOR DETECTOR LOOPS 886006-01

#### COMMITMENTS

NONE

## **GENERAL NOTES**

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE

G.N.-105.09A ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED, JULLIE. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-280 C.M.-ZBU
TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS
CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN
PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE
TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS

LOCATION(S):	IL 10
MIXTURE USE(S):	FLEXIBLE CONNECTOR
AC/PG:	PG 64-22
RAP Z: (MAX)	SEE RAP-RAS S.P.
DESIGN AIR VOIDS:	4.0% @ Ndes≎50
MIXTURE	IL 9.5
COMPOSITION:	
(GRADATION	
MIXTURE)	
FRICTION	MIX C
AGGREGATE:	

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE. SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

REV.

Coombe-Bloxdorf P.C -CIVIL ENGINEERS--STRUCTURAL ENGINEERS--LAND SURVEYORS-Design Firm License No. 184-002703

FILE NAME = DESIGNED - MC8 REVISED -USER NAME a grezionola - CFC d570432-sht-002-general-rotes.dgn DRAWN REVISED CHECKED - MCB REVISED PLOT SCALE > 2.000000 1/ in. CB PROJECT NO 88849-7 PLOT DATE # 10/31/2013 DATE REVISED / /

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES SHEET NO. OF SHEETS STA. SCALE

F.A.P. RTE. 72) COUNTY TOTAL SHEET NO.
PIATT 39 2 SECTION (1158R) BR CONTRACT NO. 70432 BLINOIS FED. AID PROJECT

PIATT COUNTY

RURAL

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

CONSTRUCTION CODE:

0014

AY ITEM CODE	PAY ITEM DESCRIPTION	UNIT	QTY.
20200100	EARTH EXCAVATION	CU YD	103.0
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23. 0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23. 0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23. 0
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25, 0
28000305	TEMPORARY DITCH CHECKS	FOOT	99.0
28100107	STONE RIPRAP, CLASS A4	SO YD	193. 0
28200200	FILTER FABRIC	SO YD	193. 0
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44.0
44000100	PAVEMENT REMOVAL	SO YD	110.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	130.0
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1.0

\* SPECIALTY ITEMS

COOM be-Bloxdorf P.C.

-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORS
Design Firm License No. 184-002703

FAL. SECTION COUNTY TOTAL SHEET SHEET
RIE. SECTION COUNTY SHEET SHEET SHEET

T21 (115BR) BR PIATT 39 3

CONTRACT NO. 70432 DESIGNED - MCB
DRAWN - CFC
CHECKED - MCB
DATE - / / FILE NAME : USER NAME : grazianoja
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PLOT SCALE = 46.888888 1/ in. REVISED -REVISED -STATE OF ILLINOIS SUMMARY OF QUANTITIES REVISED -DEPARTMENT OF TRANSPORTATION 68 PROJECT NO 28849-7 PLOT DATE \* 11/5/2013 SCALE; SHEET NO. 1 OF 4 SHEETS STA. TO STA. REVISED -

PIATT COUNTY .

RURAL

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

CONSTRUCTION CODE:

0014

PAY ITEM CODE	PAY ITEM DESCRIPTION	UNIT	QTY.
50102400	CONCRETE REMOVAL	CU YD	2.6
50300225	CONCRETE STRUCTURES	CU YD	21.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	99. 2
50300260	BRIDGE DECK GROOVING	SO YD	375.0
50300300	PROTECTIVE COAT	SO YD	375.0
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SO FT	1, 393. 0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	26, 880. 0
50800515	BAR SPLICERS	EACH	265.0
50901050	STEEL RAILING, TYPE SM	FOOT	85.0
51500100	NAME PLATES	EACH	1.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	33.0
59000200	EPOXY CRACK INJECTION	FOOT	8.0
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450.0
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0

\* SPECIALTY ITEMS

DESIGNED - MCB
DRAWN - GFC
CHECKEO - MCB
DATE - / / REVISED -FILE NAME = USER NAME = grazianoja REVISED d\$78432-sht-883-summery-quantitiet-881.dgn REVISED -PLOT SCALE > 48,888888 ' / in, CB PROJECT NO 08249-7 PLOT DATE . 10/25/2013 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET NO. 2 OF 4 SHEETS STA. TO STA.

SCALE:

-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703 COUNTY TOTAL SHEET SHEETS NO. SECTION

Coombe-Bloxdorf P.C.

721

PIATT COUNTY

RURAL

FUNDING BREAKOUT:

80% FEDERAL

20% STATE

CONSTRUCTION CODE:

0014

AY ITEM CODE	PAY ITEM DESCRIPTION	LINIT	QTY.
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0
63200310	GUARDRAIL REMOVAL	FOOT	634.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4. 0
67100100	MOBILIZATION	L SUM	1.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	73.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,644.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	917.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0

1			1000	10000 Time MC 1 M 1 1 C	towions, necocate inon hebridotties, teor early	2.0	1	
								Coombe-Bloxdorf P.C.
			*	SPECIALTY ITEMS				-STRUCTURAL ENGINEERS- -LAND SURVEYORS- Design Firm License No. 184-002703
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CB PROJECT NO 28849-7	PLGT DATE * 12/25/2013	DATE -	/ /	REVISED -		SCALE:	SHEET NO. 3 OF 4 SHEETS STA. TO STA.	

PIATT COUNTY

RURAL

FUNDING BREAKOUT:

80% FEDERAL

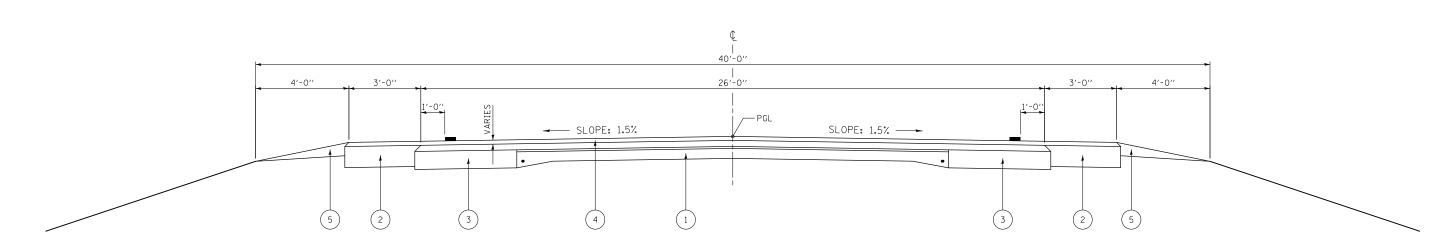
20% STATE

CONSTRUCTION CODE:

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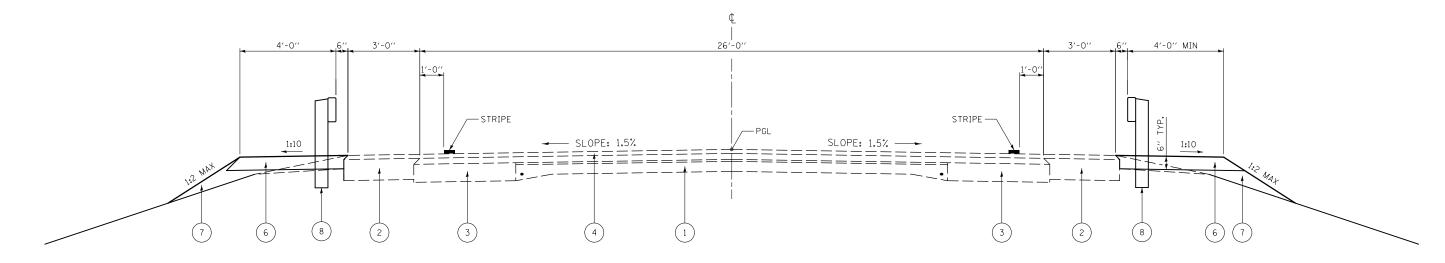
_	PAY ITEM CODE	PAY ITEM DESCRIPTION	UNIT	QTY.
	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,644.0
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2.0
	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1.0
			POTENTIAL PROPERTY AND ADDRESS OF THE POTENTIAL PROPERTY ADDRESS OF THE POTENTIAL PROPERTY AND ADDRESS OF THE POTENTIAL PROPERTY ADDRESS OF THE POTENTIAL PROPERTY ADDRESS OF THE POTENT	
	78200410	GUARDRAIL MARKERS, TYPE A	EACH	10.0
	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	260.0
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2. 0
	X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	155.0
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	26. 0
-,	Z0004552	APPROACH SLAB REMOVAL	SO YD	187.0
	Z0012754	STRUCTURAL REPAIR OF CONCRETE ( DEPTH EQUAL TO OR LESS THAN 5")	SO FT	23. 0
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SO YD	375.0
	Z0038700	PERMANENT BENCH MARKS	EACH	1.0

								Coombe	-Bloxdorf P.C.
		A. C. Tari	*	SPECIALTY ITEMS				B -STRUCT	UL ENGINEERS- URAL ENGINEERS- D SURVEYORS- INSE No. 184-002703
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#### EXISTING TYPICAL SECTION

STA 924+00.00 TO STA 925+65.06 STA 926+06.93 TO STA 927+50.00



#### PROPOSED TYPICAL SECTION

STA 922+98.49 TO STA 925+28.89

#### BRIDGE OMISSION

STA 925+28.89 TO STA 925+34.89 FLEXIBLE CONNECTOR PVT STA 925+34.89 TO STA 925+64.89 BRIDGE APPROACH SLAB STA 925+64.89 TO STA 926+07.31 SN 074-0003 STA 926+07.31 TO STA 926+37.31 BRIDGE APPROACH SLAB STA 926+37.31 TO STA 926+43.31 FLEXIBLE CONNECTOR PVT

STA 926+43.31 TO STA 928+73.51

1 EX 9-6-9 PCC PAVEMENT

2) EX PCC BASE COURSE WIDENING, 8"

3 EX HMA BASE COURSE WIDENING, 9"

(4) EX HMA OVERLAYS, THICKNESS VARIES FROM ±5 1/4" TO ±8 1/2" AT BACK OF ABUTMENTS

5 EX AGGREGATE SHOULDERS, TYPE B

6 AGGREGATE SHOULDERS, TYPE B

(7) EMBANKMENT

8 PR GUARDRAIL AND TERMINAL SECTIONS

Coombe-Bloxdorf P.C.

-civil engineers-structural engineers-land surveyorsDesign Firm License No. 184-002703

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CONCRETE BARRIER AN	ID IMPACT ATTEN	IUATOR SCHEDULE		
	TEMP CONC	REL TEMP CONC	IMPACT ATTEN	IMPACT ATTEN
LOCATION	BARRIER	BARRIER	TEMPORARY	RELOCATE
	FOOT	FOOT	EACH	EACH
4' RT STA 923+85.89			1	
4.84' RT STA 923+85.89 TO 4.5' LT STA 924+98 TO	400			
4.5' LT STA 926+73 TO 4.84' RT STA 927+85.11	400			
4' RT STA 927+85.11			1	
4' LT STA 923+85.89				1
4.84' LT STA 923+85.89 TO 4.5' RT STA 924+98 TO		400		
4.5' RT STA 926+73 TO 4.84' LT STA 927+85.11		400		
4' LT STA 927+85.11				1
TOTALS	400	400	2	2

SUMMARY OF EARTHWORK											
LOCATION	CUT	ADJUSTED CUT (25% SHRINKAGE)	FILL	EARTHWORK BALANCE WASTE							
	CU YD	CU YD	CUYD	CUYD							
STAGE I - STA 922+99 TO STA 925+65	31.0	23.3	6.0	17							
STAGE I - STA 926+07 TO STA 928+74	10.0	7.5	0.0	8							
STAGE II - STA 922+99 TO STA 925+65	30.0	22.5	6.0	17							
STAGE II - STA 926+07 TO STA 928+74	32.0	24.0	0.0	24							
EARTHWORK TOTALS	103	77	12	65							

EROSION CONTE	DOL SCHEDITE									
TEMPORARY TEMPORARY										
LOCATION	DITCH CHECKS	EC SEEDING								
2007011	FOOT	POUND								
LT STA 923+98 TO STA 925+65		5								
RT STA 922+98 TO STA 925+65		8								
LT STA 926+07 TO STA 928+74		10								
RT STA 926+07 TO STA 927+74		2								
37' RT STA 924+77	8									
37' RT STA 925+21	6									
35' RT STA 925+67	4									
37' RT STA 926+70	12									
37' RT STA 926+04	10									
39' LT STA 925+09	10									
37' LT STA 925+32	12									
37' LT STA 925+64	12									
39' LT STA 927+50	10									
35' LT STA 926+12	15									
TOTAL	99	25								

	OLIADDDD All (	OUEDINE			
	GUARDRAIL				
	SPBGR-TY A	TBT-TY 1		GR MARKERS	TERM MKRS-
LOCATIONS	6 FT POSTS	SPCL TANG	TBT-TY6A	TY A	DIR APPL
	FOOT	EACH	EACH	EACH	EACH
RT STA 923+08.49 TO STA 923+58.49		1			1
RT STA 923+58.49 TO STA 925+20.99	162.5			2	
RT STA 925+20.99 TO STA 925+64.89			1	1	
LT STA 924+08.49 TO STA 924+58.49		1			1
LT STA 924+58.49 TO STA 925+20.99	62.5			1	
LT STA 925+20.99 TO STA 925+64.89			1	1	
RT STA 926+07.11 TO STA 926+51.01			1	1	
RT STA 926+51.01 TO STA 927+13.51	62.5			1	
RT STA 927+13.51 TO STA 927+63.51		1			1
LT STA 926+07.11 TO STA 926+51.01			1	1	
LT STA 926+51.01 TO STA 928+13.51	162.5			2	
LT STA 928+13.51 TO STA 928+63.51		1			1
TOTAL	450	4	4	10	4

STONE RIPRAP SCHEDULE									
APPROXIMATE STATION	LT/RT	STONE RIPRAP, CL A 4	FILTER FABRIC						
		SQ YD	SQ YD						
925+53.15 TO 925+76.05		96.5	96.5						
925+95.94 TO 926+18.94		96.5	96.5						
TOTAL		193	193						

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	PLOT SCALE = 2.0000000 '/ in.	CHECKED -	REVISED -	i
CB PROJECT NO	PLOT DATE = 10/24/2013	DATE - / /	REVISED -	

LOCATION	PPM - LINE 4"	TEMP PVMT MKG - LINE 4"	RAISED REFL PVMT MKR	RAISED REFL PVMT MKR REMOVAL	PVMT MARKING REMOVAL	SHORT- TERM PVMT MKR (1 APP)	RAISED REFL PVMI MKR (BRIDGE)
	FOOT	FOOT	EACH	EACH	SQ FT	FOOT	EACH
NORTH EOP STA 922+22 TO STA 929+49	727	727					
SOUTH EOP STA 922+22 TO STA 929+49	727	727					
CENTERLINE SKIP - DASH STA 922+22 TO STA 929+49	190	190					
CENTERLINE STA 925+28.89 TO STA 926+43.31.			2	2			1
NORTH EOP STA 924+14 TO STA 927+61					116		
SOUTH EOP STA 924+05 TO STA 925+28.89					41		
SOUTH EOP STA 926+43.31 TO STA 927+62					40		
CENTERLINE STA 922+22 TO STA 929+49					63		
" SKIP DASH CENTERLINE STA 922+22 TO STA 929+49						73	
TOTALS	1644	1644	2	2	260	73	1

REMOVAL SCHEDULE										
LOCATION	PAVEMENT REMOVAL	APPROACH SLAB REMOVAL	GUARDRAIL REMOVAL							
	SQ YD	SQ YD	FOCT							
RT STA 923+62.56 TO STA 925+64.99			202							
LT STA 924+49.76 TO STA 925+65.05			115							
LT STA 926+07.10 TO STA 928+09.28			202							
RT STA 926+07.11 TO STA 927+22.10			115							
STA 925+28.89 TO STA 925+44.2	57									
STA 925+44.2 TO STA 925+64.7		91								
STA 926+06.5 TO STA 926+28.8		96								
STA 926+28.8 TO STA 926+43.31	53									
	110	187	634							

	SEEDING SCHEDULE											
	SEEDING	NITROGEN	PHOSPHORUS	POTASSIUM	MULCH							
LOCATION	CLASS 2A	FERT NUTR	FERT NUTR	FERT NUTR	METHOD 2							
	ACRE	POUND	POUND	POUND	ACRE							
RT STA 922+98 TO STA 925+65	0.018	7	7	7	0.018							
LT STA 923+98 TO STA 925+65	0.012	5	5	5	0.012							
RT STA 926+07 TO STA 927+74	0.004	2	2	2	0.004							
LT STA 926+07 TO STA 928+74	0.024	9	9	9	0.024							
	0.25	23	23	23	0.25							

BRIDGE APPROACH PAVEMENT S	BRIDGE APPROACH PAVEMENT SCHEDULE										
LOCATION		BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SQ YD									
16.5' LT AND RT STA 925+28.99 TO STA 925+34.99		22									
16.5' LT AND RT STA 925+34.99 TO STA 925+64.99											
16.5' LT AND RT STA 926+07.11 TO STA 926+37.31											
16.5' LT AND RT STA 926+37.31 TO STA 926+43.31		22									
	TOTALS	44									

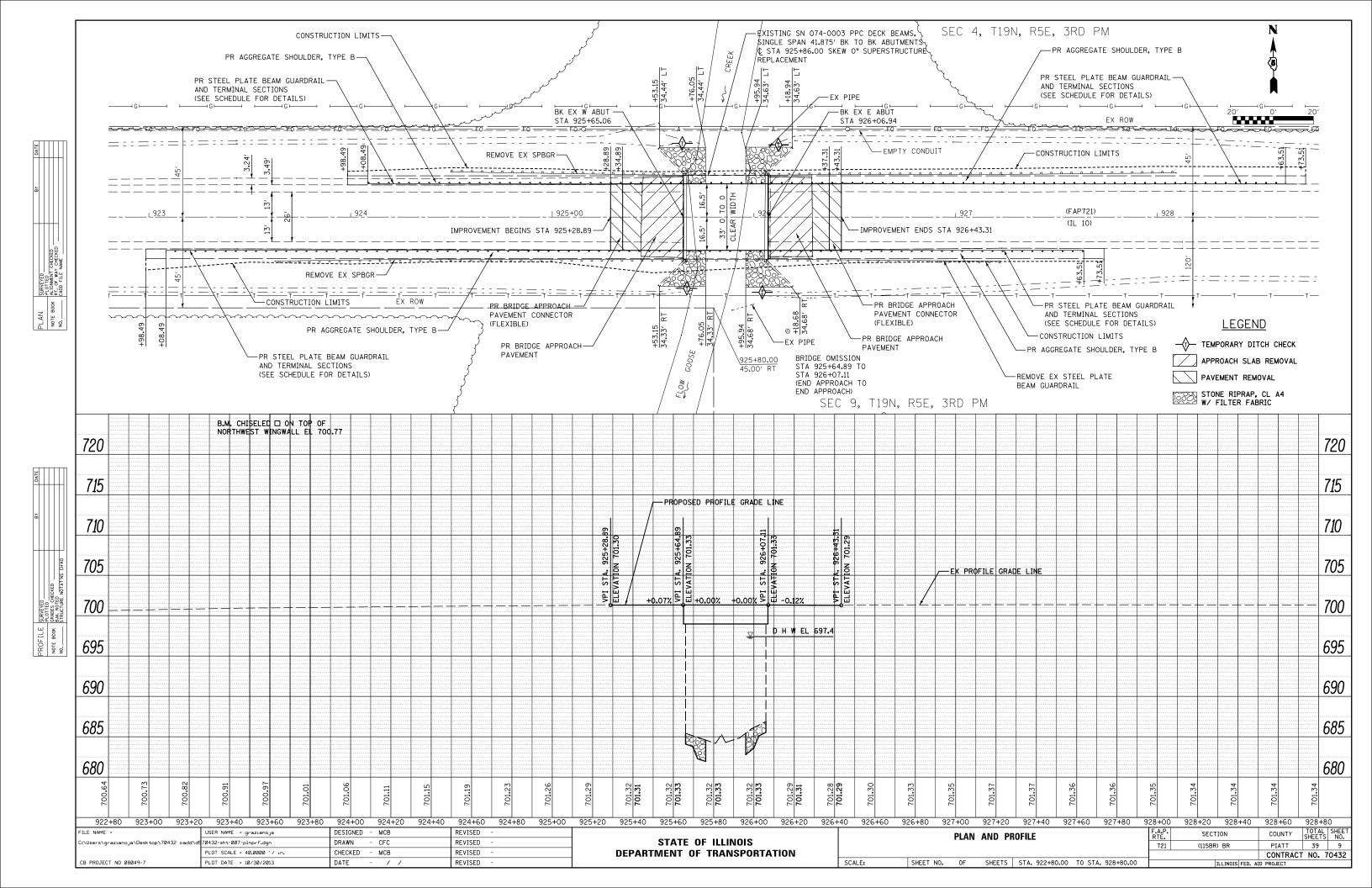
AGGREGATE SHOULDERS, T	YPE B	
		AGGREGATE
LOCATION		SHOULDER,
		TYPE B
		TON
16.0' TO 20.5' LT STA 923+98.49 TO STA 925+64.89		25
16.0' TO 20.5' RT STA 922+98.49 TO STA 925+64.89		40
16.0' TO 20.5' LT STA 926+07.11 TO STA 928+73.51		40
16.0' TO 20.5' RT STA 926+07.11 TO STA 927+73.51		25
	TOTALS	130

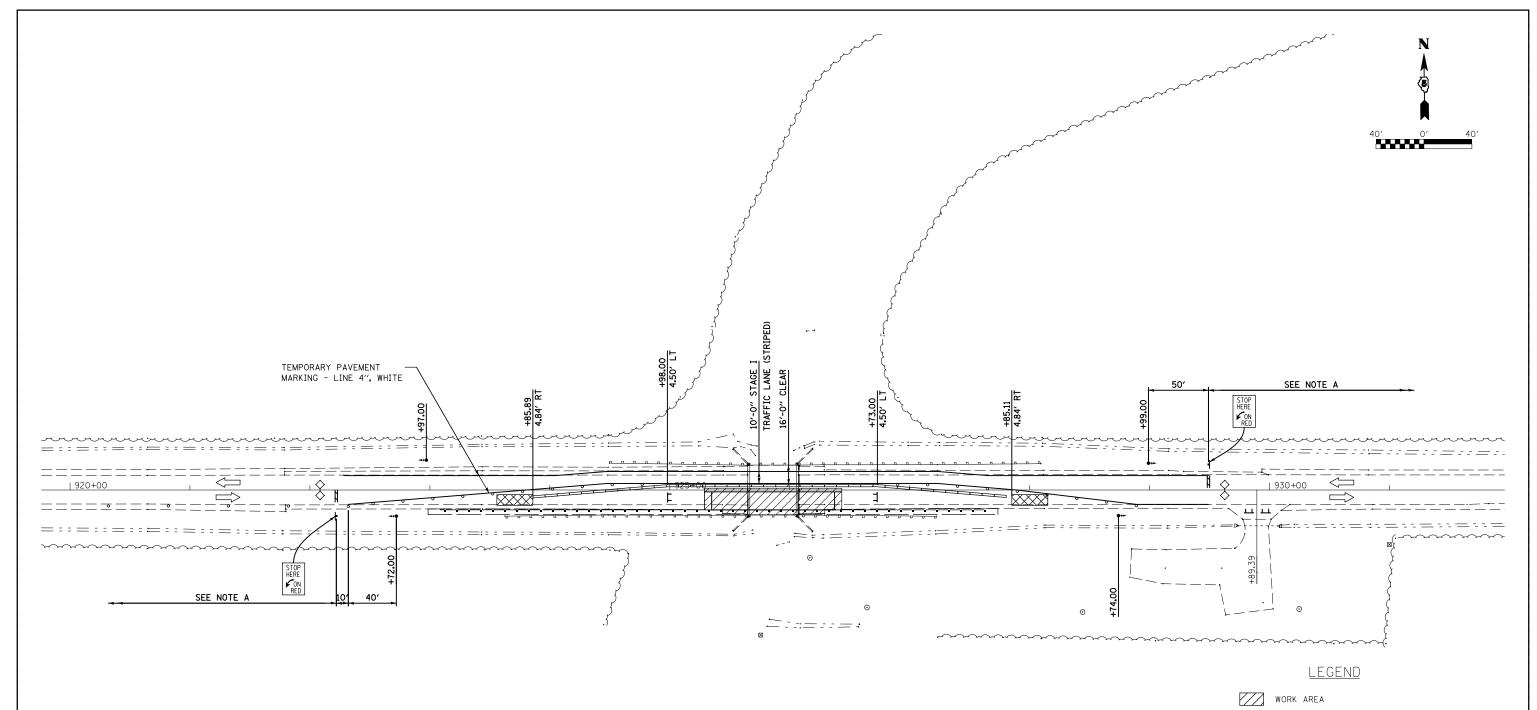
SCALE:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Coombe-Bloxdorf P.C.

-civil engineers-structural engineers-land surveyors-





#### PRIOR TO STAGE I CONSTRUCTION

PLACE MAX WIDTH SIGNS AS SHOWN ON SHEET 27 OF 36.
PLACE STAGE I TRAFFIC CONTROL AS SHOWN AND ACCORDING TO STANDARD 701321.
PLACE BARRICADES AT STA 929+89.39 ENTRANCE RIGHT AND CLOSE ENTRANCE FOR THE DURATION OF THE PROJECT.
COVER EXISTING RAISED REFLECTIVE PAVEMENT MARKERS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

## STAGE I SEQUENCE OF CONSTRUCTION

DIRECT TRAFFIC TO STAGE I ROADWAY AND COMPLETE STAGE I STRUCTURAL WORK, INSTREAM WORK, GUARDRAIL REMOVAL, PAVEMENT REMOVAL AND CONSTRUCT PROPOSED GUARDRAIL AND TERMINAL SECTIONS AND AGGREGATE AND EMBANKMENT IN ACCORDANCE WITH STD 630001, 630301 AND 631032

## NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
EXCEPT PLACE SIGN R3-1-2424 AT ENTRANCE STA 929+89.39
AS SHOWN AND AS DIRECTED BY THE ENGINEER.
ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
CONTROL AND PROTECTION STANDARD 701321.

SIGN (SEE STD 701321)

• DRUM WITH STEADY BURNING LIGHT

**◄+●** TRAFFIC SIGNAL

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)

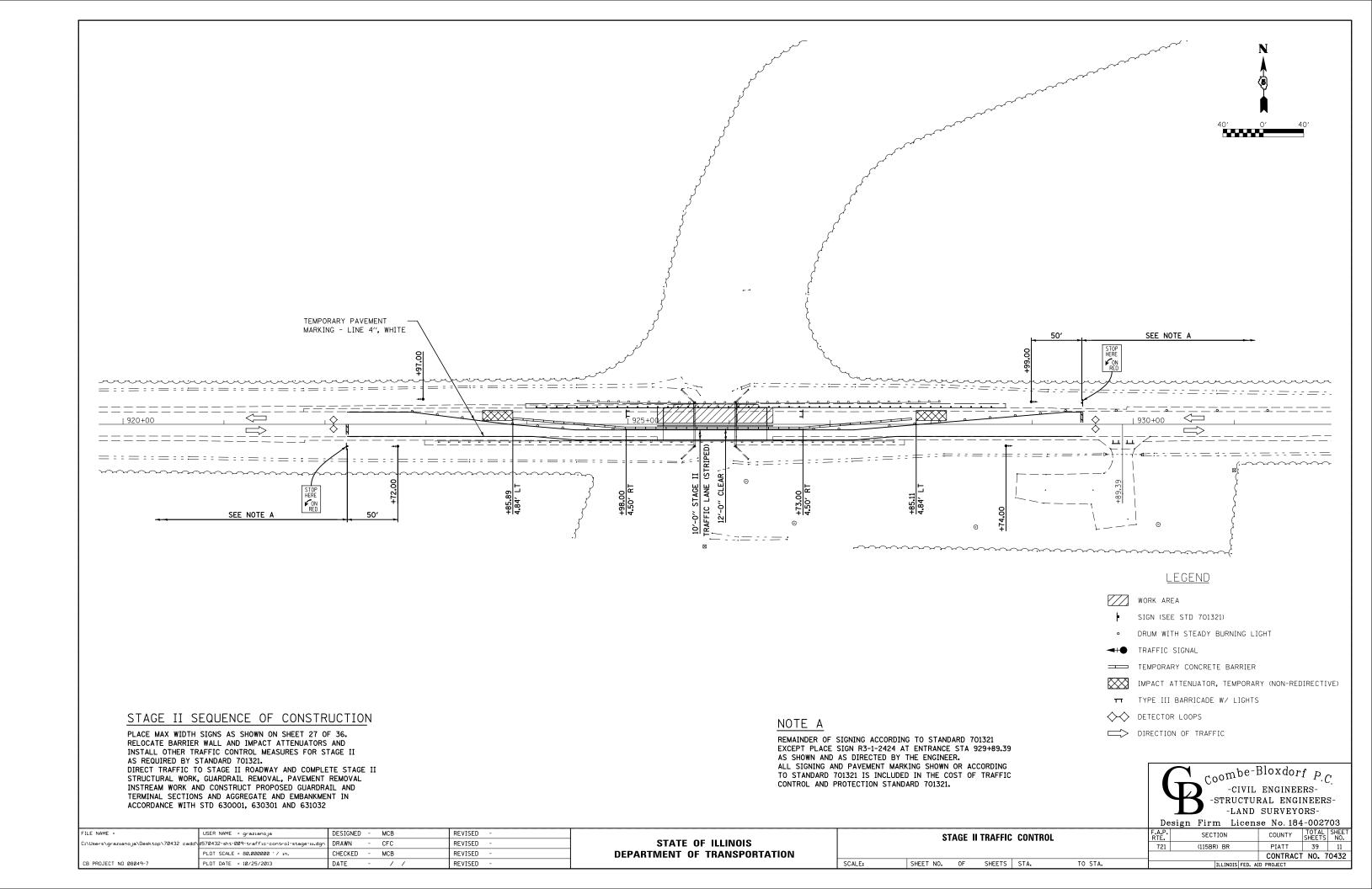
TT TYPE III BARRICADE W/ LIGHTS

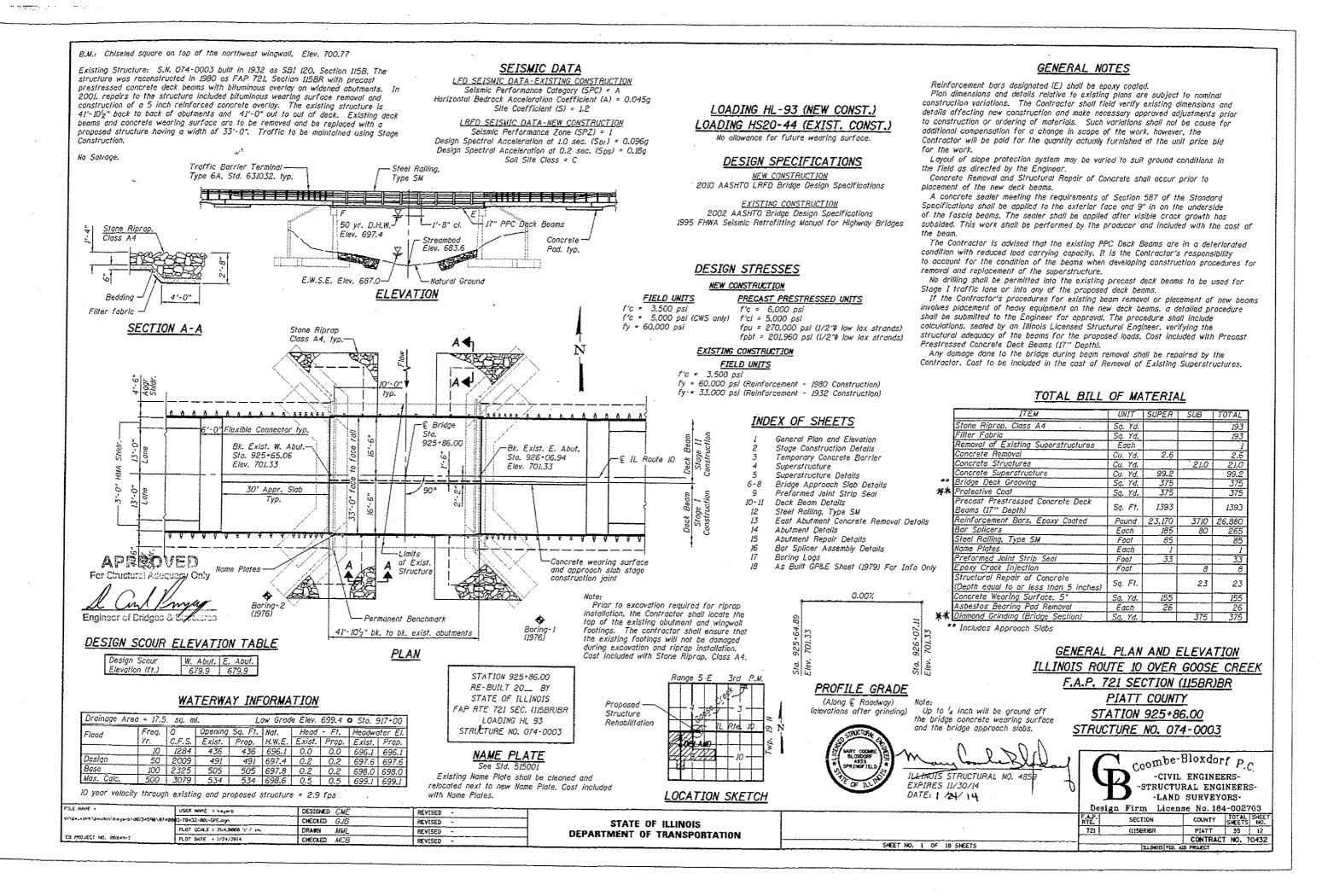
♦♦ DETECTOR LOOPS

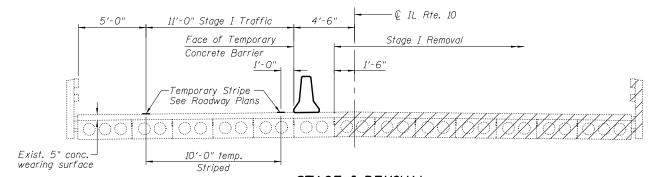
DIRECTION OF TRAFFIC

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-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703

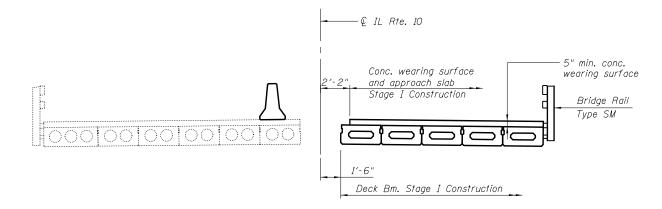
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C:\Users\grazianoja\Desktop\70432 cadd	Nd570432-sht-008-traffic-control-stage-1.dgn	DRAWN -	CFC	REVISED -	STATE OF ILLINOIS		01	AGE I	IIIAIIIO	CONTINUE		721	(115BR) BR	PIATT	39	10
	PLOT SCALE = 80.0000000 '/ in.	CHECKED -	мсв	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 7	0432
CB PROJECT NO 08049-7	PLOT DATE = 10/25/2013	DATE -	/ /	REVISED -		SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. A			





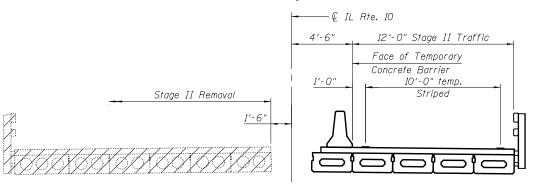


#### STAGE I REMOVAL (Looking East)

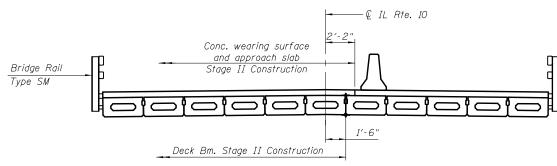


## STAGE I CONSTRUCTION

(Looking East)

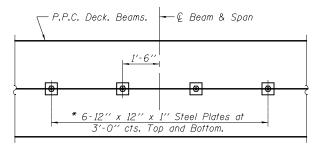


## STAGE II REMOVAL

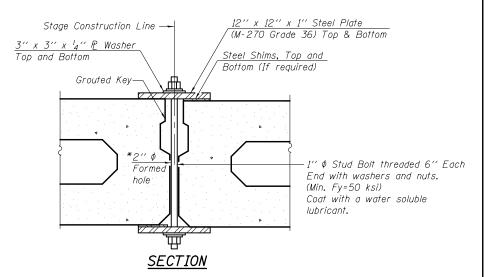


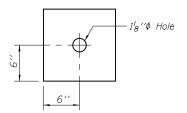
#### STAGE II CONSTRUCTION

(Looking East)



#### <u>PLAN</u>





#### CLAMPING PLATE

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

Cost included with Precast Prestressed Concrete Deck Beams. (17" Depth)

\* 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.

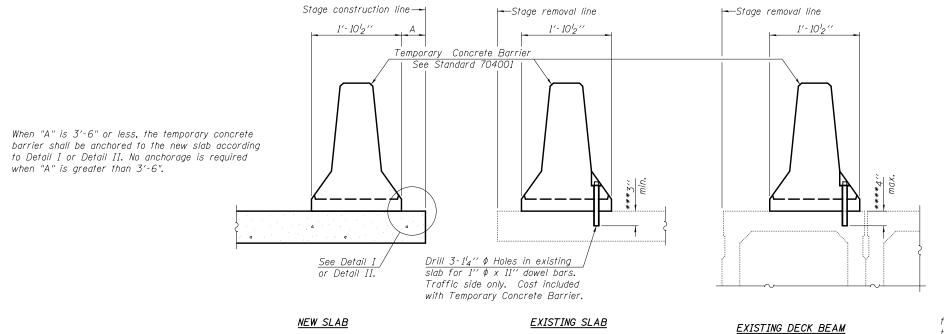
#### **NOTES**

Hatched areas indicate Removal of Existing Superstructures. Removal of Existing concrete wearing surface and bridge rail are included with Removal of Existing Superstructures. See Roadway plans for quantity of Temporary Concrete Barrier.

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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

FILE NAME =	USER NAME = keysrb	DESIGNED CME	REVISED -		STAGE CONSTRUCTION DETAILS	F.A.P.	SECTION	COUNTY	TOTAL SHEET NO.
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CB PROJECT NO. Ø8Ø49-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 2 OF 18 SHEETS		ILLINOIS FED. A	ID PROJECT	

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•		SEC1	ΓΙΟΝ			COUNT	′	TOTAL SHEETS	SHEET NO.	
Т	(115BR)BR					PIATT		39	13	
	CONTRACT NO. 70432									
			TI I THOTC	CCD	ATD	DDO IECT				



#### *NOTES*

Detail I - With Bar Splicer or Couplers:

Connect one (1) I'' x  $7^l_4{''}$  x 'W'' steel  $f_L^0$  to the top layer of couplers with  $2^{-5}g''$   $\phi$  bolts screwed to coupler at approximate  $f_L^0$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (!) I'' x 7½'' x "W" steel £ to the concrete slab or concrete wearing surface with 2-5g" \$\phi\$

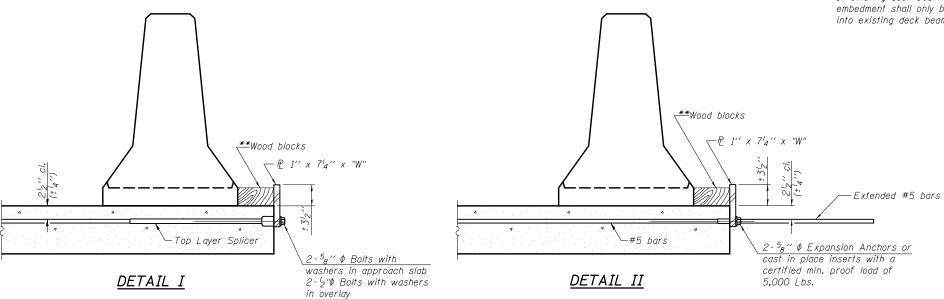
Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate £ of each barrier panel.

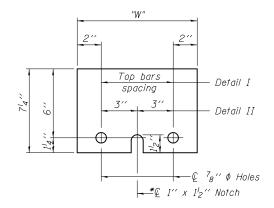
Cost of anchorage is included with Temporary Concrete Barrier. The  $1^{\prime\prime}$  x  $7^l_4{}^{\prime\prime}$  x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

#### SECTIONS THRU SLAB OR DECK BEAM

- \*\*\* Dimension shown is minimum required embedment into concrete.

  If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- \*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.





STEEL RETAINER 1 1" x 7 4" x "W"

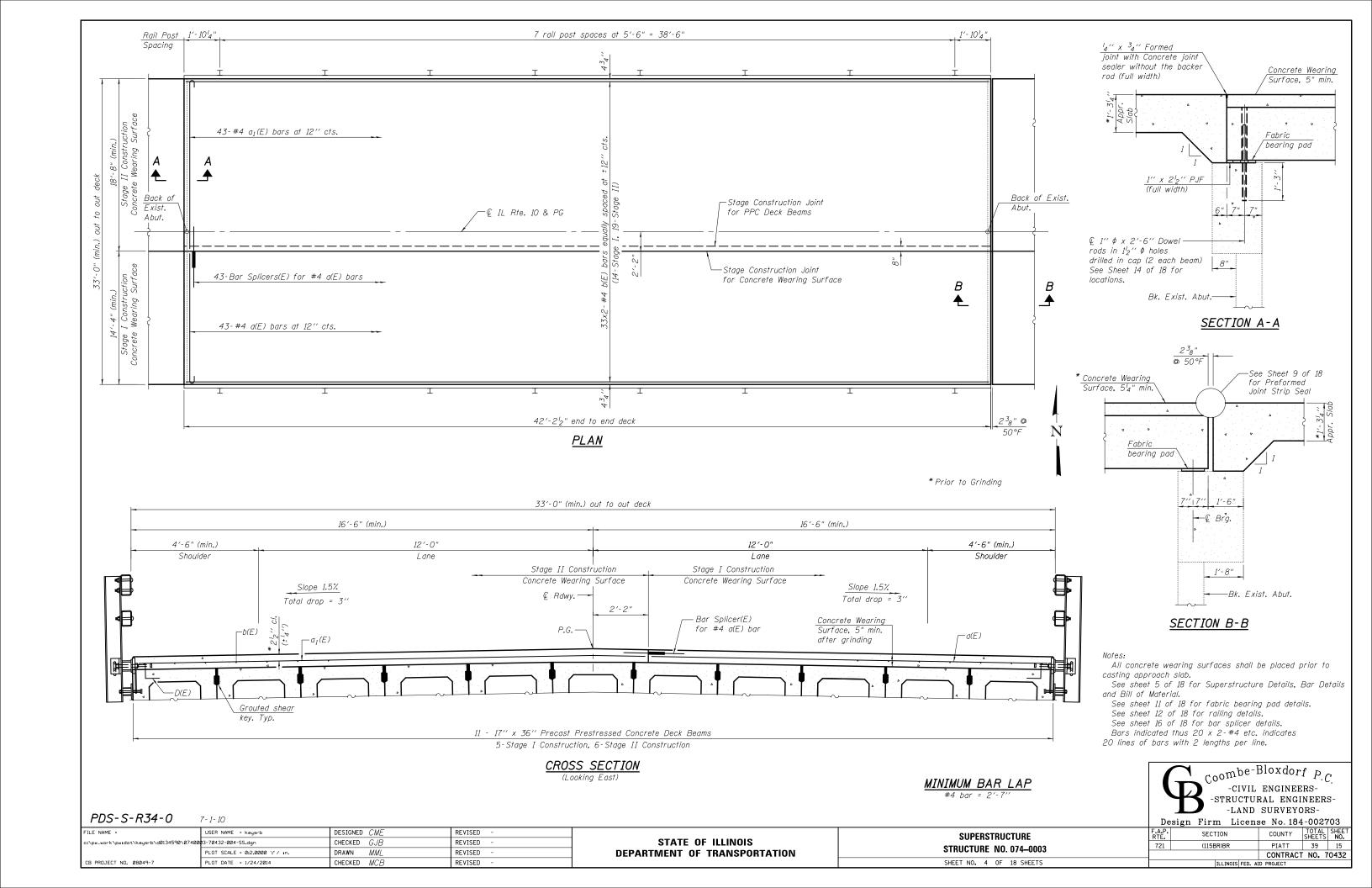
\* Required only with Detail II

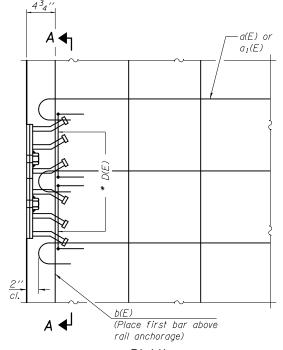
\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

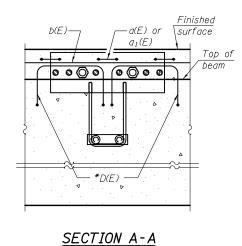
"W" = Top bars spacing + 4''

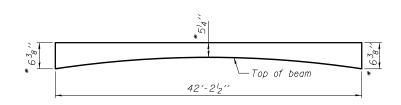
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-civil engineers-structural engineers-land surveyors-

						Design	Firm Li	cense No. 184	4-002703
FILE NAME =	USER NAME = keysrb	DESIGNED CME	REVISED -		MODIFIED TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\keysrb\d0134590\0740	003-70432-003-TCB.dgn	CHECKED GJB	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 074-0003	721	(115BR)BR	PIATT	39 14
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CB PROJECT NO. 08049-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 3 OF 18 SHEETS		ILLINOIS	FED. AID PROJECT	









ANTICIPATED CONCRETE WEARING SURFACE PROFILE (For information only)

\* Prior to Grinding

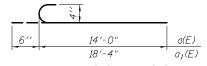
#### <u>PLAN</u>

\* Bar D(E) detail shown on Sheet 11 of 18.

## REINFORCEMENT DETAIL AT RAIL POST ANCHORAGE LOCATIONS

Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

See Sheet 11 of 18 for Section thru Fascia Beam.



BARS a(E) &  $a_1(E)$ 

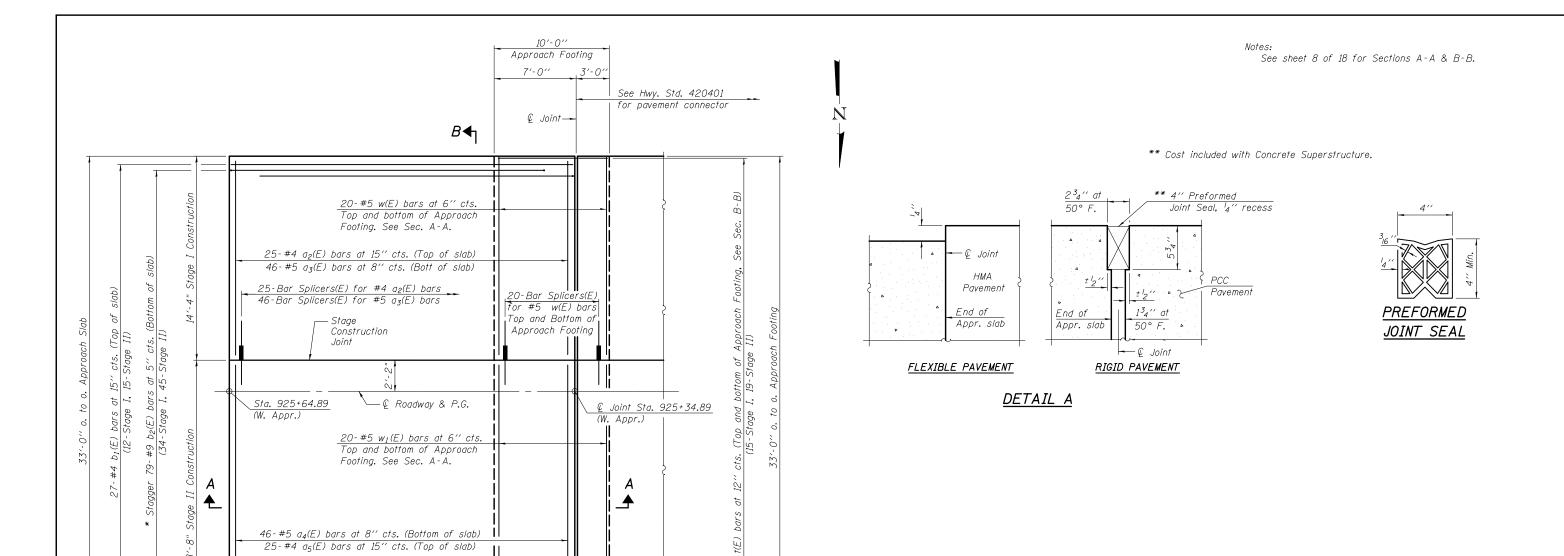
## CONCRETE WEARING SURFACE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	43	#4	14′-6"	
$a_I(E)$	43	#4	18′-10"	
b(E)	66	#4	22'-3"	
	rcement	Bars,	Pound	1940
Epoxy Coated			7 00770	15 / 0
Concrete Wearing Surface, 5"			Sq. Yd.	155
33,700	·, ·			

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CB PROJECT NO. 08049-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 5 OF 18 SHEETS		ILLINOIS	FED. AID PROJECT		



<u>PLAN</u> \* Tilt #9  $b_2(E)$  bars as required to maintain clearance.

<del>|</del> ← € Joint

Top and bottom of Approach Footing. See Sec. A-A.

25'-0"

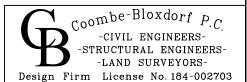
30'-0"

В◀

46-#5  $a_4(E)$  bars at 8" cts. (Bottom of slab) 25-#4 a<sub>5</sub>(E) bars at 15" cts. (Top of slab)

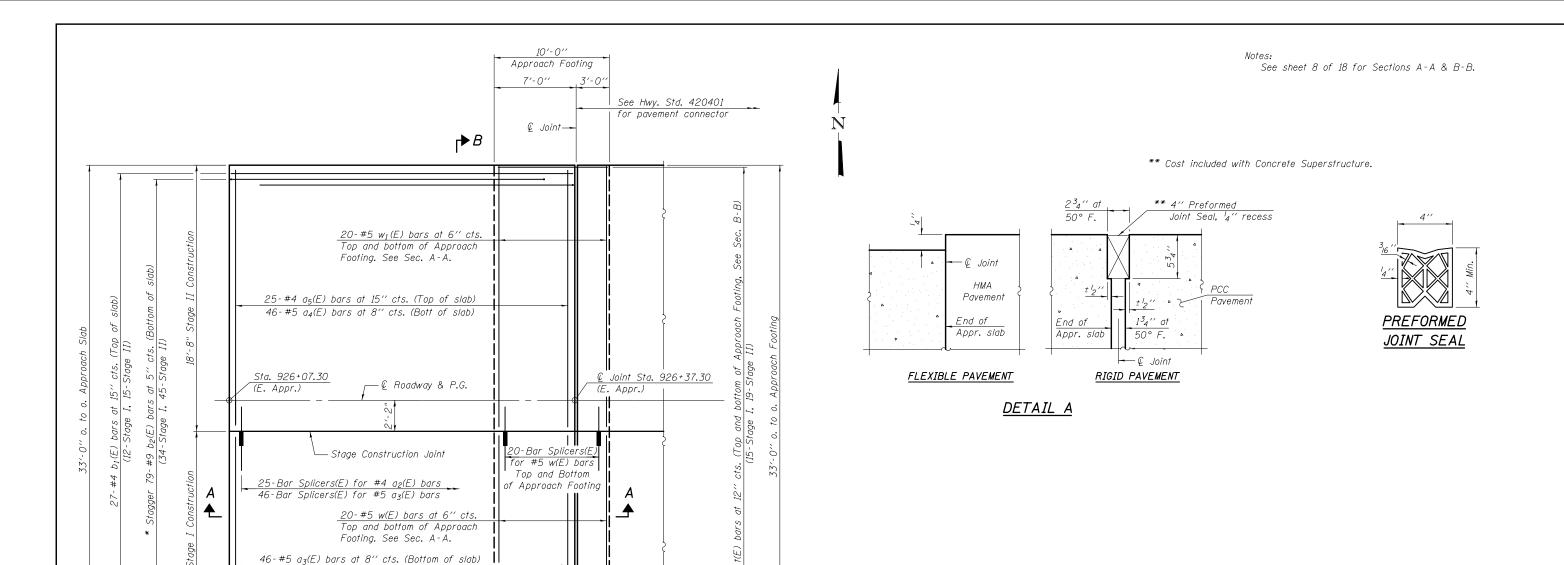
-62

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(Sheet 1 of 3) COUNTY TOTAL SHEETS NO.

PIATT 39 17 FILE NAME = USER NAME = keysrb DESIGNED CME REVISED SECTION WEST BRIDGE APPROACH SLAB DETAILS STATE OF ILLINOIS CHECKED GJB c:\pw\_work\pwidot\keysrb\d0134590\07400**0**3-70432-006-ASD1.dgn REVISED 721 (115BR)BR STRUCTURE NO. 074-0003 DRAWN MML REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70432 CB PROJECT NO. Ø8Ø49-7 CHECKED MCB REVISED SHEET NO. 6 OF 18 SHEETS PLOT DATE = 1/24/2014



Top and Bottom

of Approach Footing

<del>|</del> ← € Joint

25-Bar Splicers(E) for #4 a2(E) bars 46-Bar Splicers(E) for #5 a3(E) bars

46-#5 a<sub>3</sub>(E) bars at 8" cts. (Bottom of slab) 25-#4 a<sub>2</sub>(E) bars at 15" cts. (Top of slab)

20-#5 w(E) bars at 6" cts. Top and bottom of Approach Footing. See Sec. A-A.

25'-0"

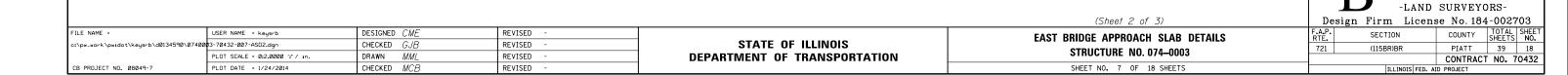
30'-0''

 $\downarrow_B$ 

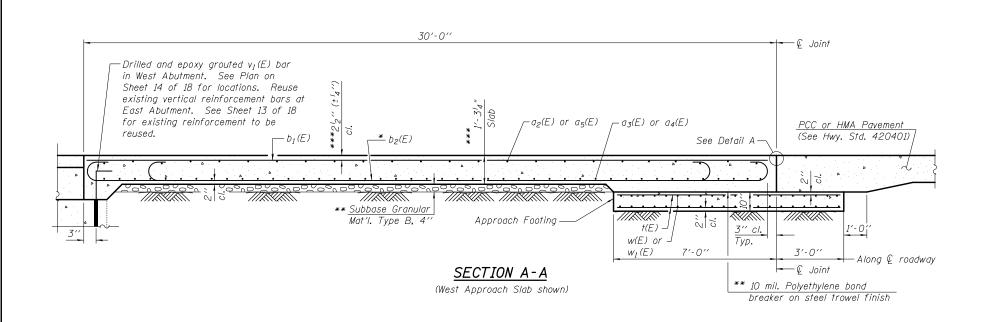
<u>PLAN</u>

\* Tilt #9  $b_2(E)$  bars as required to maintain clearance.

-62



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Notes:

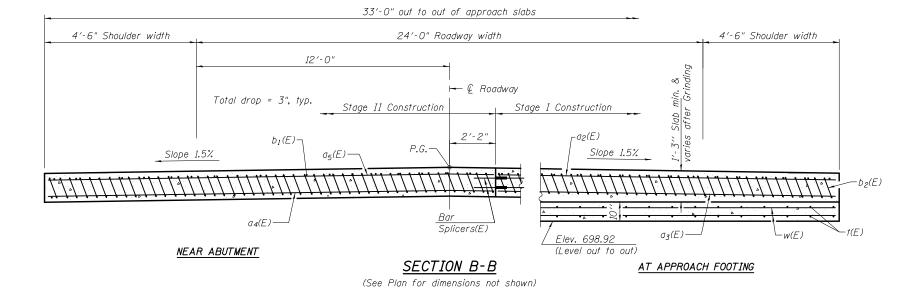
See sheets 6 and 7 of 18 for Detail A.

Approach slab concrete shall be paid for as Concrete Superstructure. Approach footing concrete shall be paid for as Concrete Structures.

Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated. For  $v_1(E)$  bar details, see sheet 14 of 18.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. For bar splicer details, see sheet 16 of 18.

Cost of excavation for approach footing included with Concrete Structures.



- \* Tilt #9  $b_2(E)$  bars as required to maintain clearance.
- \*\* Cost included with Concrete Superstructure.
- \*\*\* Prior to Grinding

## TWO APPROACHES BILL OF MATERIAL

0 .		C'-	1	C .
Bar	No.	Size	Length	Shape
a <sub>2</sub> (E)	50	#4	14'-0"	
a3(E)	92	#5	14'-0"	
04(E)	92	#5	18′-4"	
a5(E)	50	#4	18′-4"	
b1 (E)	54	#4	29'-8''	
b2(E)	158	#9	29'-9''	
†(E)	136	#4	9′-8′′	
w(E)	80	#5	14'-0"	
$w_I(E)$	80	#5	18′-4"	
Concrete	Superstru	ıcture	Cu. Yd.	99.2
Concrete	Structure	S	Cu. Yd.	20.4
Reinforcement Bars,			Pound	04 910
Ероху Со	ated		i ound	24,810

1'-3''	27'-3"	1'-3''
	29′-9′′	
·	BAR b <sub>2</sub> (E)	

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(Sheet 3 of 3) FILE NAME = DESIGNED CME REVISED USER NAME = keysrb **BRIDGE APPROACH SLAB DETAILS** STATE OF ILLINOIS c:\pw\_work\pwidot\keysrb\d0!34590\07400**0**3-70432-008-ASD3.dgn CHECKED GJB REVISED STRUCTURE NO. 074-0003 DRAWN MML REVISED **DEPARTMENT OF TRANSPORTATION** CHECKED MCB SHEET NO. 8 OF 18 SHEETS CB PROJECT NO. 08049-7 REVISED PLOT DATE = 1/24/2014

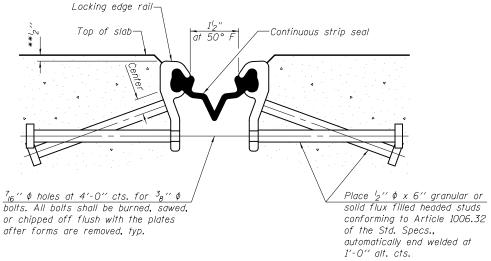
 Design
 Firm
 License
 No. 184-002703

 F.A.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS NO. 194-194

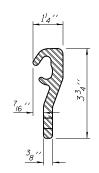
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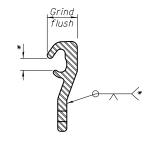
 CONTRACT NO. 70432

- \*Omit weld at seal opening.
- \*\*Prior to grinding.



## SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS





#### LOCKING EDGE RAIL

#### LOCKING EDGE RAIL SPLICE

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of  $l_4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

#### BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	33

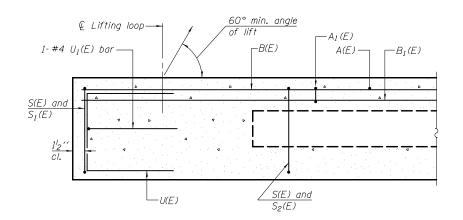
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CB PROJECT NO. Ø8Ø49-7	PLOT DATE = 1/24/2014	CHECKED	MCB	REVISED	-	ĺ

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  MODIFIED PREFORMED JOINT STRIP SEAL STRUCTURE NO. 074-0003

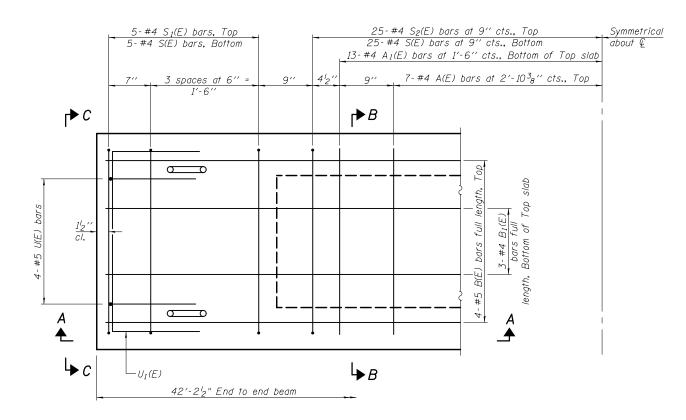
-LAND SURVEYORS-Design Firm License No. 184-002703 COUNTY TOTAL SHEETS NO.
PIATT 39 20 SECTION (115BR)BR

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721 CONTRACT NO. 70432 SHEET NO. 9 OF 18 SHEETS

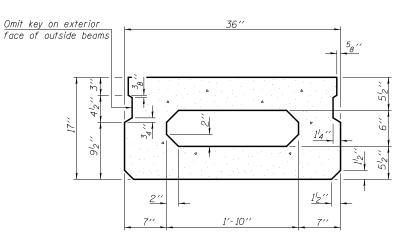


#### SECTION A-A

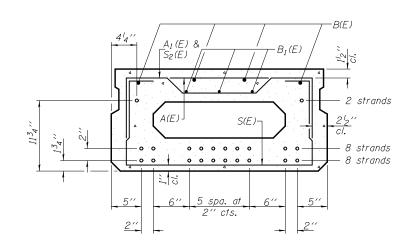


#### PLAN VIEW

Note: Spacing of S(E) and  $S_2(E)$  bars may be adjusted up to  $4^{\prime\prime}$  in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



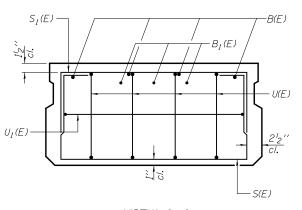
## SECTION B-B



#### 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.



#### VIEW C-C

Notes:

Typical Interior Beam shown. See Section thru Fascia Beam on Sheet 5 and 11 of 17 for reinforcement required at rail post locations. See Sheet 4 of 17 for rail post spacing.

See Sheet 2 of 17 for Shear Key Clamping Details at Stage Construction Joint.

See Sheet 12 of 17 for anchorage device cast with beam.

## <u>BAR LIST</u> <u>ONE INTERIOR BEAM ONLY</u>

(For information only)

(i or initiation only)								
Bar	No.	Size	Length	Shape				
A(E)	13	#4	2'-7"					
A1(E)	25	#4	2'-10''	{				
B(E)	4	#5	39'-2''					
$B_I(E)$	3	#4	39'-2''					
S(E)	49	#4	5′-9′′	Г				
S <sub>1</sub> (E)	10	#4	4'-3''					
$S_2(E)$	49	#4	4'-6''	7				
U(E)	8	#5	3'-8''					
$U_1(E)$	2	#4	5′-0′′					

Note: See sheet 11 of 17 for additional details and Bill of Material.

## MINIMUM BAR LAP

#4 bar = 2'-0'' #5 bar = 2'-6''

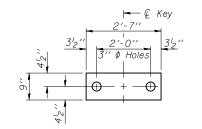
PD-1736-0

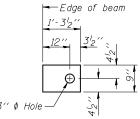
7 - 1 - 10

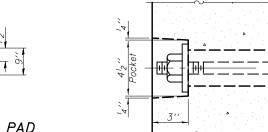
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

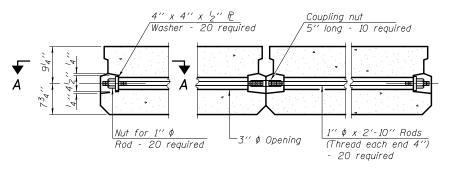
17" x 36" PPC DECK BEAM STRUCTURE NO. 074-0003
SHEET NO. 10 OF 18 SHEETS

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703











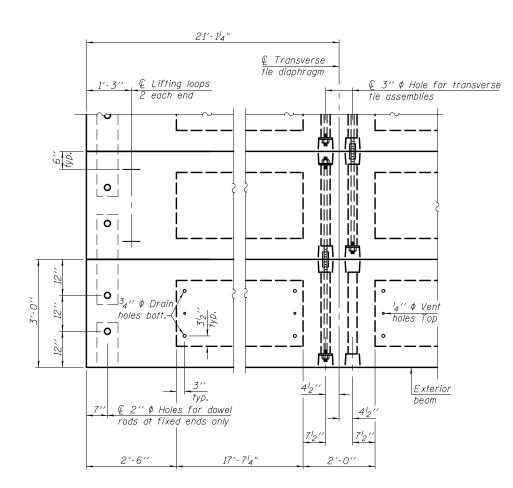
FABRIC BEARING PAD

*FIXED* 

Notes:

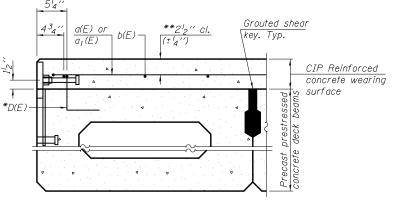
All bearing pads shall be 1" thick. Omit holes when using expansion bearings. Expansion bearing pad shall be bonded to the substructure. SECTION A-A

TYPICAL TRANSVERSE TIE ASSEMBLY

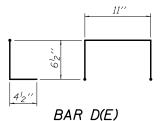


#### PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



#### SECTION THRU FASCIA BEAM



- \* Place 2-#4 D(E) bars in fascia beams at each post location shown on Sheet 4 of 17. D(E) bar included in cost of beam. (16 D(E) bars required per fascia beam)
- \*\*Prior to grinding.

#### NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be  $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

The 1"  $\phi$  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

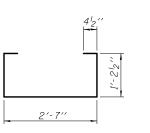
Two 'g' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

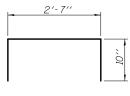
A minimum  $2\frac{1}{2}$ "  $\phi$  lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

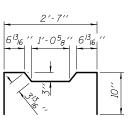
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

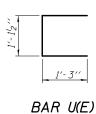
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.





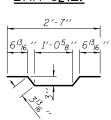
BAR S(E)

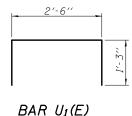




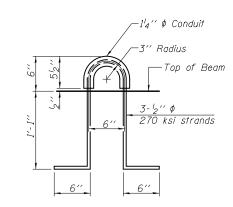
BAR S1(E)

BAR S2(E)





BAR A1(E)



LIFTING LOOP DETAIL

#### BILL OF MATERIAL

Precast Prestressed	Sa. Et.	1707
Conc. Deck Rms (17" depth)	34. FI.	1393

PD-1736-0D

7 - 1 - 10

USER NAME = keysrb DESIGNED CME REVISED c:\pw\_work\pwidot\keysrb\d0134590\07400**0**3-70432-011-BM2.dgn CHECKED GJB REVISED DRAWN MML REVISED CHECKED MCB CB PROJECT NO. 08049-7 REVISED PLOT DATE = 1/24/2014

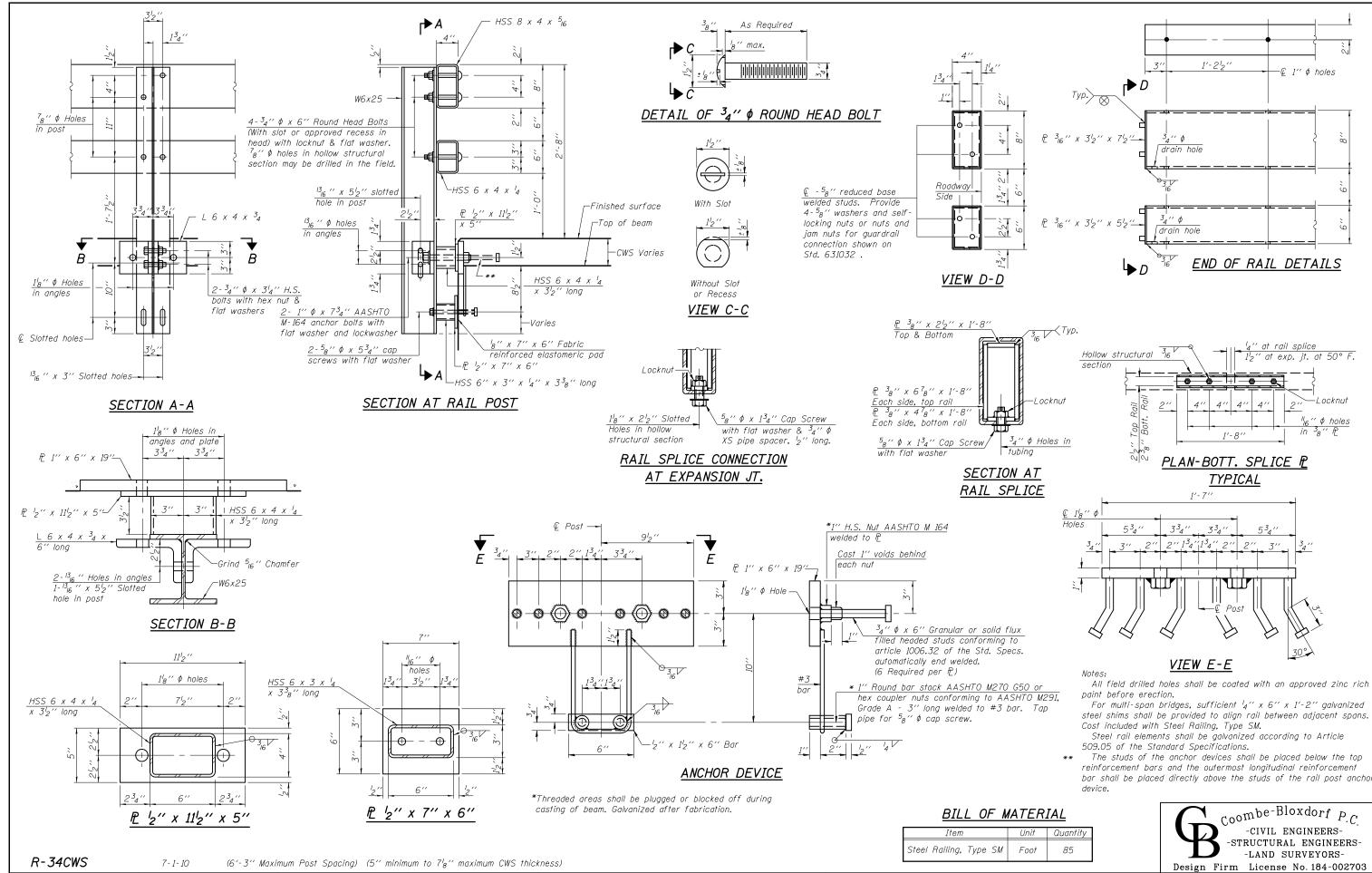
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  17" x 36" PPC DECK BEAM DETAILS STRUCTURE NO. 074-0003 SHEET NO. 11 OF 18 SHEETS

-STRUCTURAL ENGINEERS--LAND SURVEYORS-SECTION PIATT 39 22 (115BR)BR

Coombe-Bloxdorf P.C. -CIVIL ENGINEERS-

CONTRACT NO. 70432

Design Firm License No. 184-002703 COUNTY TOTAL SHEET NO. 721



REVISED REVISED STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REVISED -

USER NAME = keysrb

PLOT DATE = 1/24/2014

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CB PROJECT NO. 08049-7

DESIGNED CME

CHECKED GJB

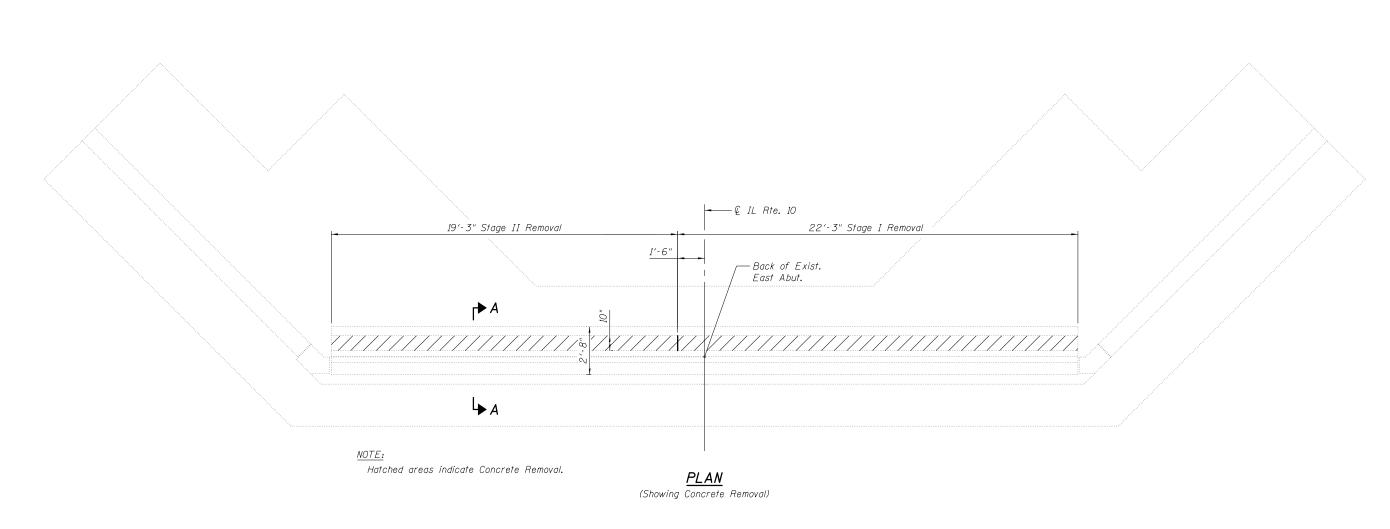
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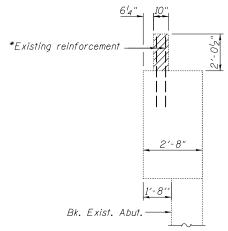
CHECKED MCF

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE STRUCTURE NO. 074–0003

SHEET NO. 12 OF 18 SHEETS

Total	Firm	License	No. 164-002703	
FA.P.	SECTION	COUNTY	TOTAL SHEETS	NO. 1707
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Total	Total	SHEETS	NO. 1707	
Total	Total	SHEETS	NO. 164-002703	
Total	Total	SHEETS	NO. 164-002703	
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Total	Total	SHEETS	NO. 164-002703	
Total	Total	SHEETS	NO. 164-002703	
Total	Total	SHEET		





\* Existing reinforcement extending into the area of new approach slab construction shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars being reused that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in Concrete Removal.

Existing reinforcement not extending into the areas of new construction shall be cut at the removal line and removed. The exposed portion will be cleaned and coated with a layer of epoxy. Cost included with Concrete Removal.

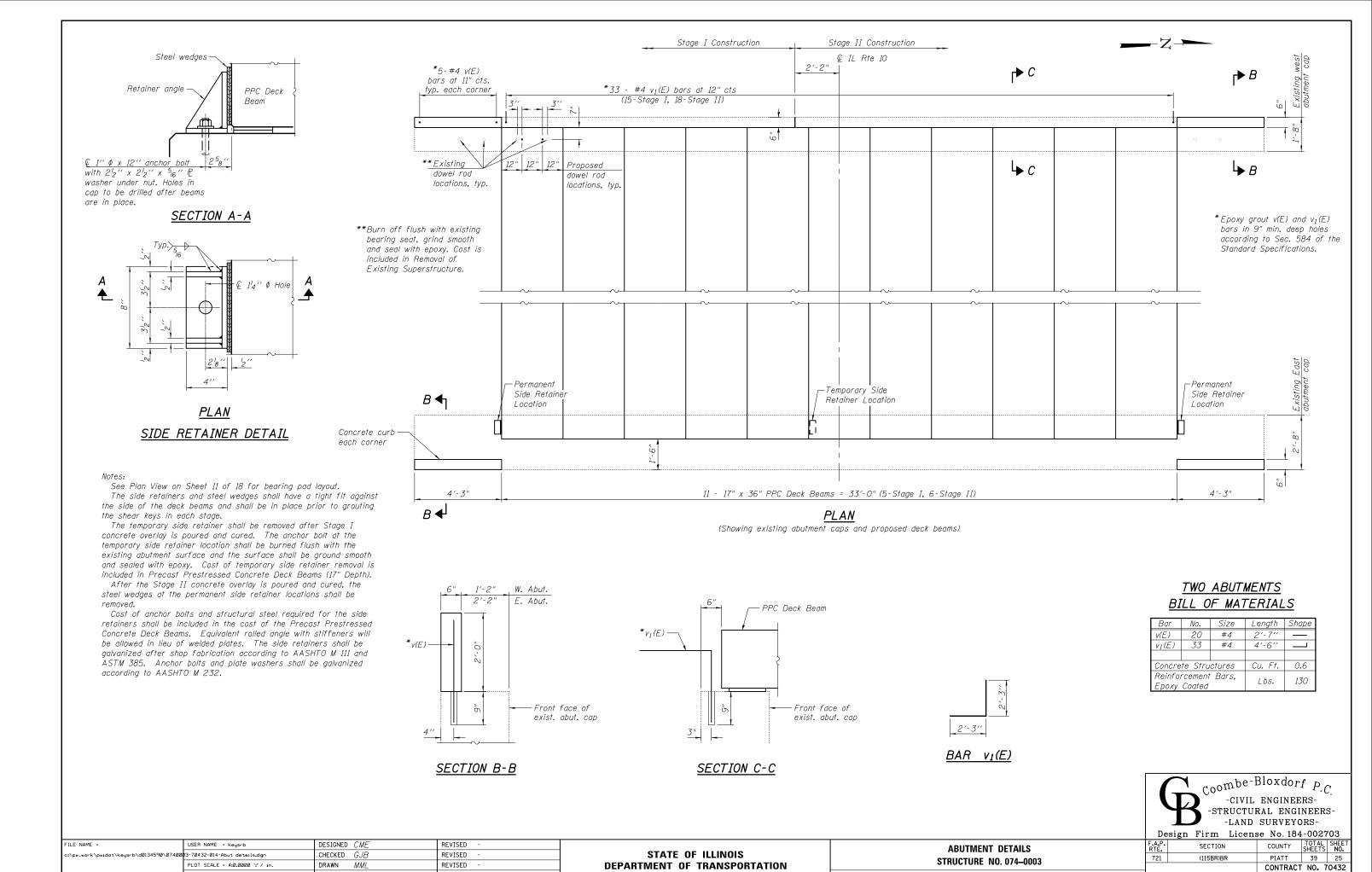
## BILL OF MATERIAL

	ITEM				ΊΤ	TOTAL
Concrete F	Removal			Cu.	Yd.	2.6
Asbestos i	Bearing	Pad	Removal	Εc	ich	26

## SECTION A-A

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703

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CB PROJECT NO. 08049-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 13 OF 18 SHEETS		ILLINOIS FED. A	ID PROJECT		



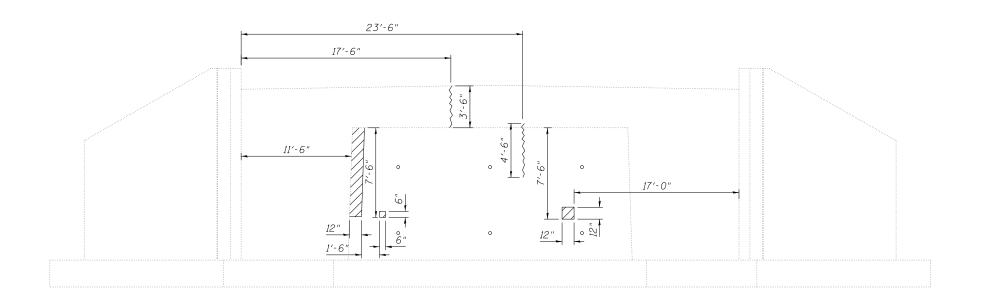
CB PROJECT NO. Ø8Ø49-7

PLOT DATE = 1/24/2014

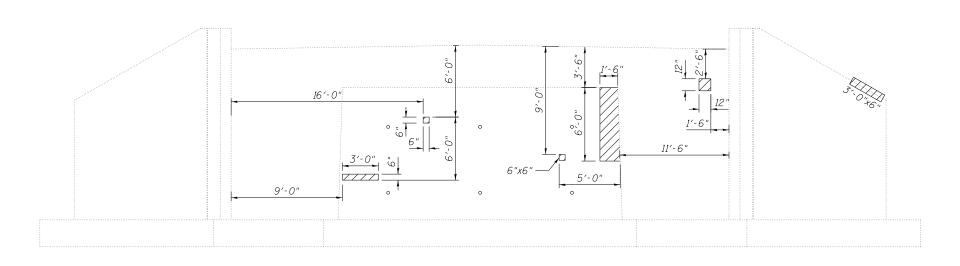
CHECKED MCF

REVISED

SHEET NO. 14 OF 18 SHEETS



## WEST ABUTMENT ELEVATION



## EAST ABUTMENT ELEVATION

## <u>TWO ABUTMENTS</u> <u>BILL OF MATERIAL</u>

Item	Unit	Total
Epoxy Crack Injection	Foot	8
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	23

## <u>LEGEND</u>

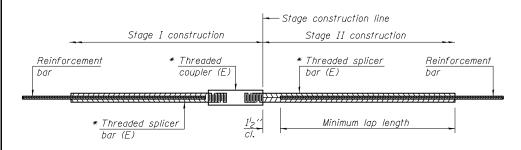
Structural Repair of Concrete (Depth equal to or less than 5")

~ Epoxy Crack Injection

Coombe-Bloxdorf P.C.

-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703

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CB PROJECT NO. Ø8Ø49-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 15 OF 18 SHEETS		ILLINOIS FED.	. AID PROJECT		



#### STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths									
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5				
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-3''				
5	1'-9''	2'-5"	2'-7''	2'-11''	2'-10''				
6	2'-1''	2'-11''	3'-1''	3′-6′′	3'-4''				
7	2'-9''	3'-10''	4'-2"	4'-8''	4'-6''				
8	3′-8′′	5′-1′′	5′-5′′	6'-2''	5′-10′′				
9	4'-7''	6′-5′′	6′-10′′	7′-9′′	7′-5′′				

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

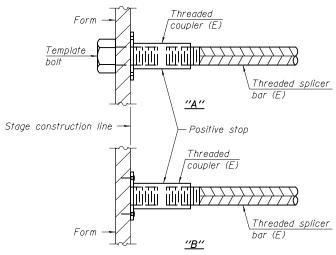
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length +  $1_2^{l}$ " + thread length

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

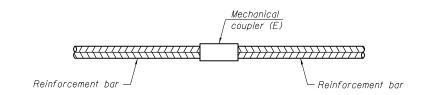
Location	Bar size	No. assemblies required	Table for minimum lap length
Concrete Wearing Surface	#4	43	Table 3
Approach Slab	#4	50	Table 3
Approach Slab	#5	92	Table 3
Approach Footing	#5	80	Table 3



#### INSTALLATION AND SETTING METHODS

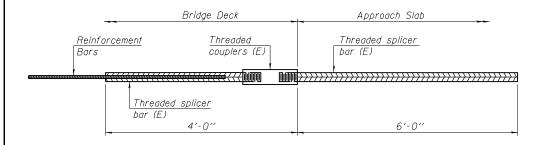
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



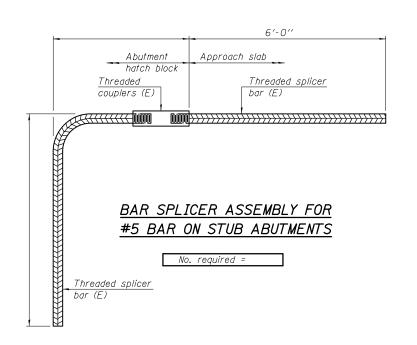
#### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



## BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No, 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.

## BSD-1

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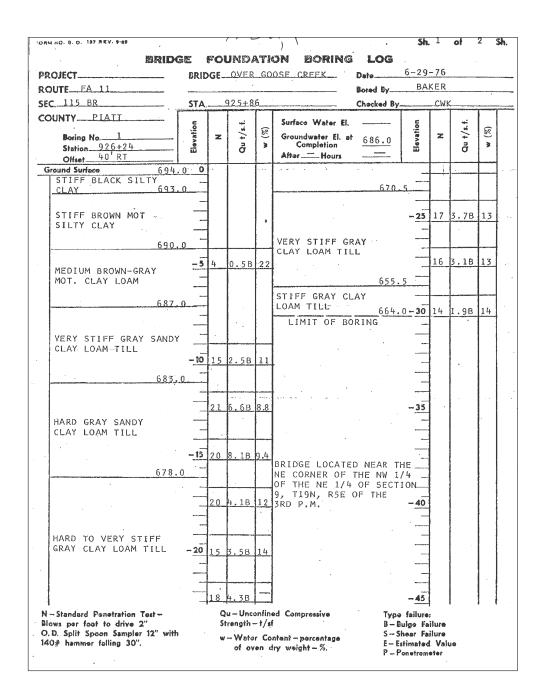
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  BAR SPLICER

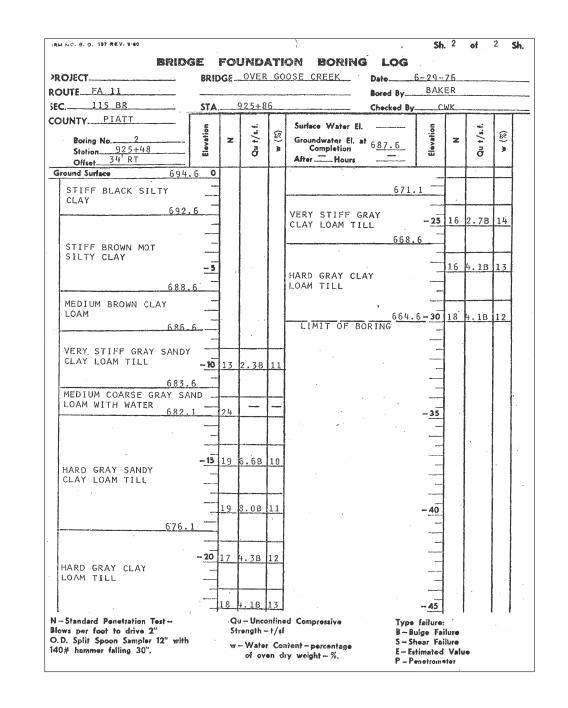
-STRUCTURAL ENGINEERS--LAND SURVEYORS-

Coombe-Bloxdorf P.C.

-CIVIL ENGINEERS-

	νe	sign firm Licei	1se No. 104	1-00%	103
R ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 074-0003		(115BR)BR	PIATT	39	27
3111001011L NO. 074-0003			CONTRAC	T NO. 7	7043
SHEET NO. 16 OF 18 SHEETS		TILI INOTS, FED.	ATD PROJECT		

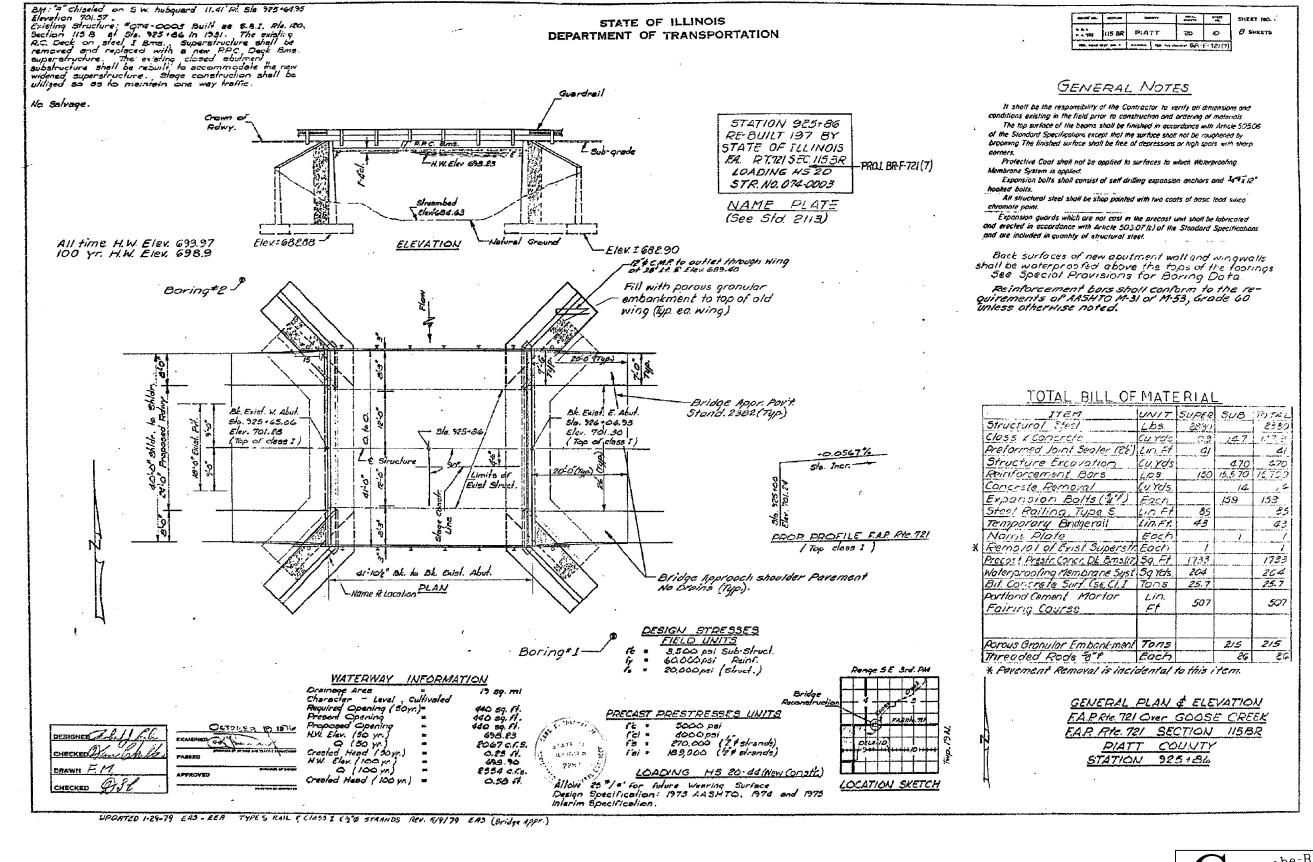




Coombe-Bloxdorf P.C.

-civil engineers-structural engineers-land surveyors-

						Design Firm	License No.	184-002703
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CB PROJECT NO. Ø8Ø49-7	PLOT DATE = 1/24/2014	CHECKED MCB	REVISED -		SHEET NO. 17 OF 18 SHEETS	ILL	INOIS FED. AID PROJECT	



FOR INFORMATION ONLY

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703

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CB PROJECT NO. 08049-7	PLOT DATE = 10/25/2013	CHECKED -	REVISED -		SHEET NO. 18 OF 18 SHEETS		ILLINOIS FED. AI	D PROJECT		

						X'-X'' STAGE I - 14'-6''
						STAGE I - 14'-6" STAGE II - 10'-6"
						SEE SHEET 28 OF 36 FOR ADDITIONAL INFORMATI
						Dlam.l
						Coombe-Bloxdorf
						-CIVIL ENGINEERS
						-STRUCTURAL ENGINE
						-LAND SURVEYORS
						Design Firm License No. 184-00
	USER NAME = grazianoja	DESIGNED - MCB	REVISED -		WIDTH RESTRICTION SIGNING DETAIL	F.A.P. SECTION COUNTY TO SHE
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		DATE - / /	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT

W12-2(0)-48"×48" X' - X'

IL 10

21"×15" ORANGE 8.5 MILES AHEAD

MAX WIDTH

8.5 MILES AHEAD

W12-I103(0)-48"×48"

-SN 074-0003 PROJECT LOCATION

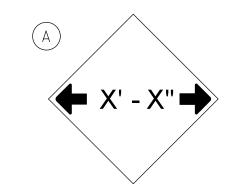
IL 10

WELDON

MAX WIDTH

X' -X"
5.5 MILES

M12-I103(0)-48"×48"



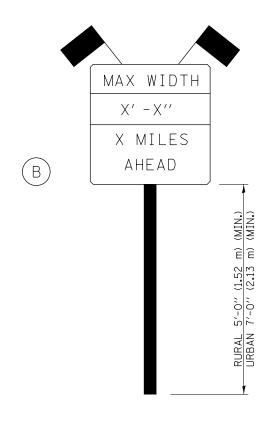
W12-2(0)-48"×48"(1200×1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"×48"(1200×1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN B 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

X'-X"
STAGE I - 14'-6"
STAGE II - 10'-6"

X 5.5 MILES WEST 8.5 MILES EAST



SIGN PANEL, TYPE II

#### GENERAL NOTES

- 1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
- 3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
- 5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
- 6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.

B

MAX WIDTH

(ORANGE)

X MILES

WHITE BACKGROUND

AHEAD

W12-I103(0)-48"×48"(1200×1200)

"D" LETTERS/NUMBERS

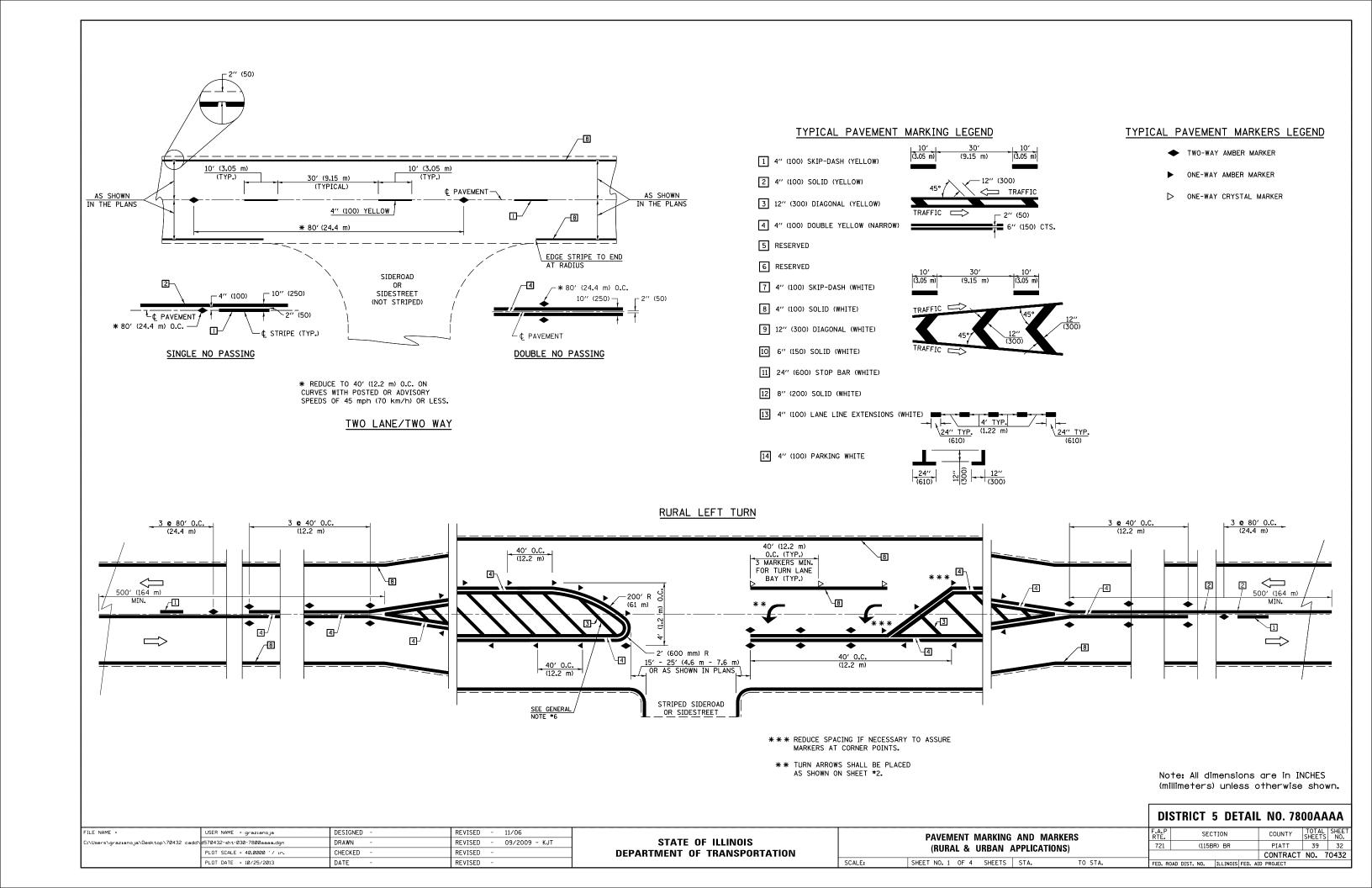
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

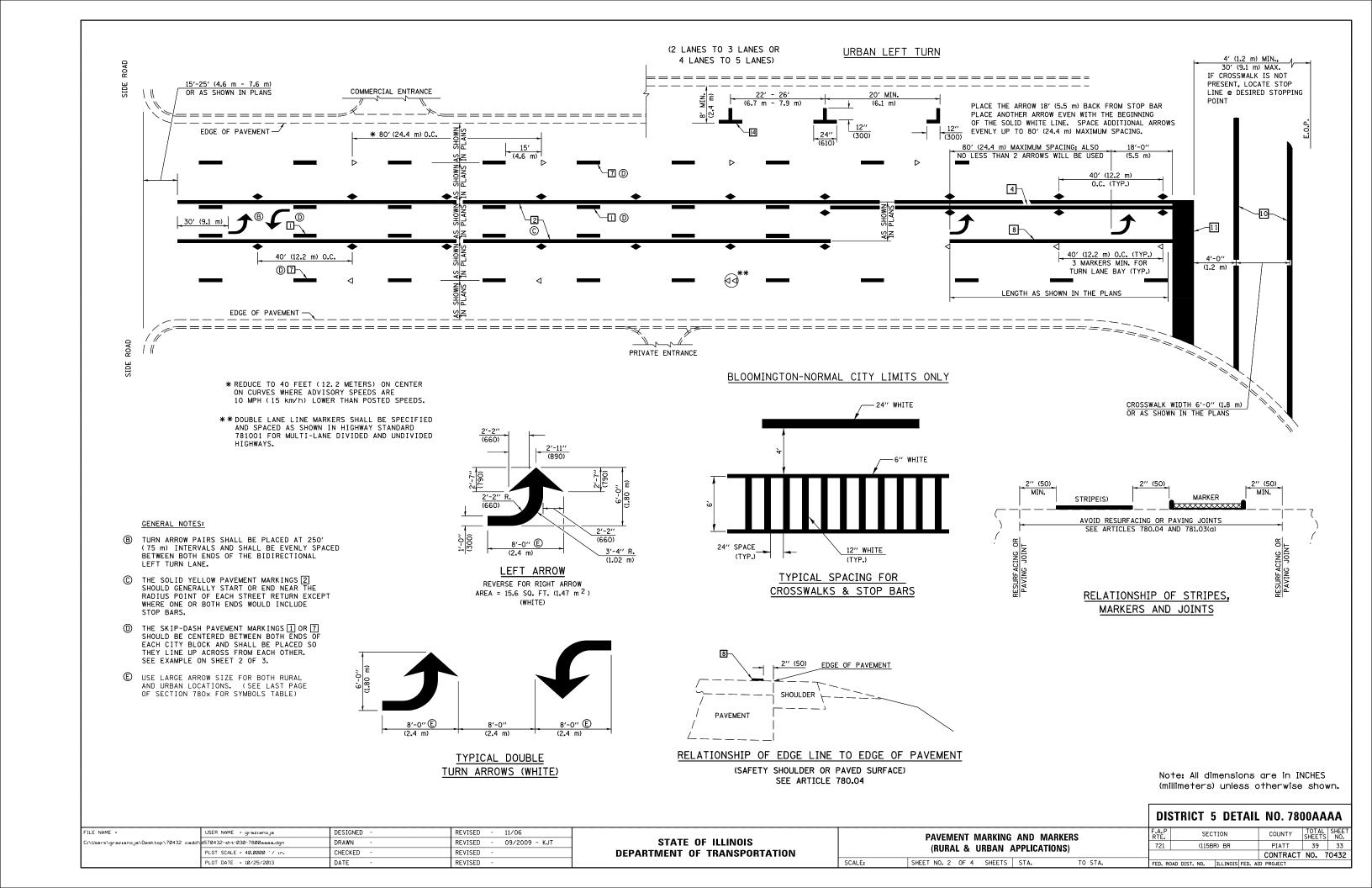
Coombe-Bloxdorf P.C.

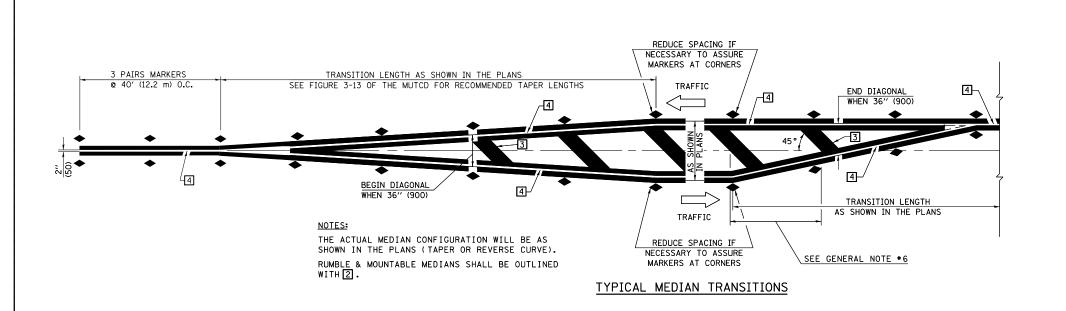
-CIVIL ENGINEERS-STRUCTURAL ENGINEERS-LAND SURVEYORSDesign Firm License No. 184-002703

DISTRICT 5 DETAIL NO. X7200201

FILE NAME = DESIGNED -REVISED - 11/06 USER NAME = grazianoja STATE OF ILLINOIS WIDTH RESTRICTION SIGNING :\Users\grazianoja\Desktop\70432 cadd\d570432-sht-029-x7200201.dgn DRAWN REVISED - 05/08 PIATT 39 31 721 (115BR)BR CHECKED REVISED 10/08 - KJT **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70432 REVISED - 7/09 - KJT SCALE: SHEET NO. OF SHEETS STA. TO STA. PLOT DATE = 10/25/2013 DATE FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

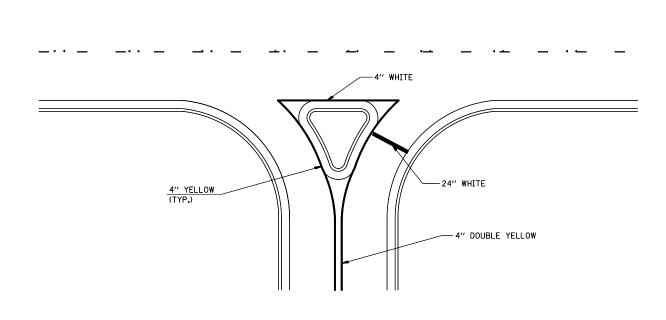




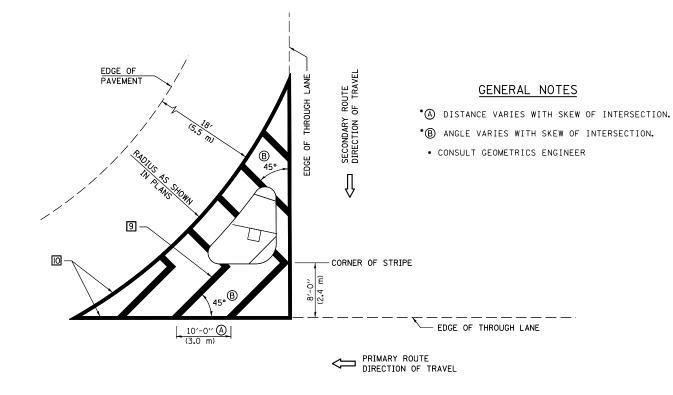


#### GENERAL NOTES

- 1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
- SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
- PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
- 4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
- 5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
- 6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING, <30 MPH USE 15' (<50 km/h USE 4.5 m) 30-45 MPH USE 20' (50-75 km/h USE 6.0 m) >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



<u>ISLAND</u>

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

							DISTF	RICT 5 DETAI	L NO. 7800AAAA	
FILE NAME =	USER NAME = grazianoja	DESIGNED -	REVISED - 11/06			PAVEMENT MARKING AND MARKERS	F.A.P RTF	SECTION	COUNTY TOTAL SHEET	
C:\Users\grazianoja\Desktop\70432 cadd\	d570432-sht-030-7800aaaa.dgn	DRAWN -	REVISED - 09/2009 - KJT	STATE OF ILLINOIS		(RURAL & URBAN APPLICATIONS)	721	(115BR) BR	PIATT 39 34	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		(NUNAL & UNDAN APPLICATIONS)			CONTRACT NO. 70432	
	PLOT DATE = 10/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. 3 OF 4 SHEETS STA. TO STA.	FED. ROAD D	IST. NO. ILLINOIS FED.	AID PROJECT	

## APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT. 4 11 USE TABLE 2C-4 FROM THE MUTCD MANUAL FOR THIS DISTANCE 10' (3.05 m) NOTES \* Minimum Distance 400' for 55 MPH 250' for 45 MPH 100' for 35 MPH or Less THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH. 50' (15**.**2 m) ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN

PAVEMENT MARKINGS AT

RAILROAD-HIGHWAY GRADE CROSSING

EACH LANE.

OF THE MUTCD.

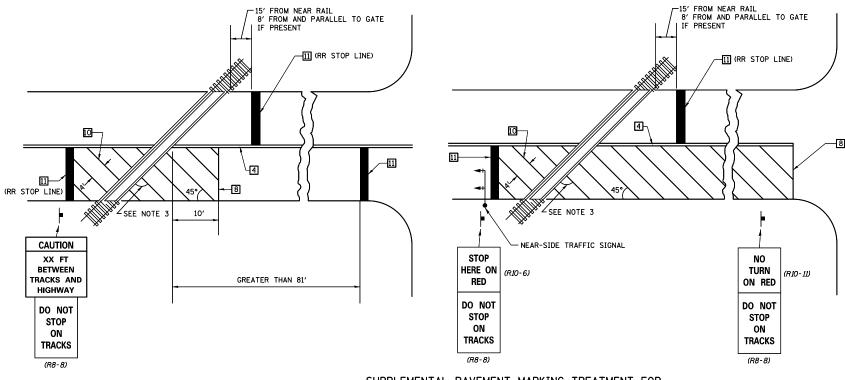
WHEN THE PAVEMENT MARKING SYMBOL

TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B

IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT

#### RAILROAD CROSSING WITH INTERCONNECT ONLY

#### RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



#### SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

# 8' (2.4 m) OR AS DIRECTED BY THE ENGINEER. 4 ─ LANE €

SCALE:

#### **GENERAL NOTES**

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DIS	STRICT	5	DETAIL	. NO.	780	DOAA	AA
F.A.P RTE.	SE	CTI	ON	COUN	TY	TOTAL SHEETS	SHEET NO.

FILE NAME =	USER NAME = grazianoja	DESIGNED -	REVISED	-	11/06
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	PLOT DATE = 10/25/2013	DATE -	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**PAVEMENT MARKING AND MARKERS** (RURAL & URBAN APPLICATIONS) SHEET NO. 4 OF 4 SHEETS STA. TO STA.

PIATT 39 35 CONTRACT NO. 70432

