01-15-2016 LETTING ITEM 012

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA:

PC = 660 (82.5%)SU = 50 (6.25%)

MU = 90 (11.25%)

0

0

0

MINOR ARTERIAL (RURAL) ADT = 800 (YR 2013)

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 836 (IL 49) SECTION 117BR-1 PROJECT ACF-0836 (032) **BRIDGE REHABILITATION EDGAR COUNTY** BRUSHY FORK CREEK, 1 MI. N. OF US 36 C-95-121-06

RNG 11E. RNG 14W. DOUGLAS EDGAR RNG 14W, RNG 13W. 3RD P.M. 2ND P.M. COUNTY COUNTY 2ND P.M. ZND P.M.

D-95-121-06

1178R-1

EDGAR 48 1

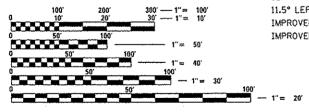
ILLINOIS CONTRACT NO. 70607



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS OCTOBER 1620 15

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED SUPERSTRUCTURE REPLACEMENT EXISTING STRUCTURE NUMBER 023-0018 STATION 52+86,00 (IL 49) 3-SPANS, 115'-10" B-B ABUTS. 32'-0" OUT TO OUT OF DECK 11.5° LEFT FORWARD SKEW IMPROVEMENT BEGINS AT STATION 51+00,00



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 YOUNG AMERICA TWP (EDGAR CO.) OR 811 NEWMAN TWP (DOUGLAS CO.)

PROJECT ENGINEER JASON STULTS PROJECT MANAGER RUSTIN KEYS DISTRICT 5 PHONE NUMBER: (217) 465-4181

CONTRACT NO. 70607

GROSS LENGTH = 350.00 FT. = 0.066 MILES NET LENGTH = 350.00 FT. = 0.066 MILES

LOCATION MAP

DOUGLAS | EDGAR

COUNTY | COUNTY

IMPROVEMENT ENDS AT STATION 54+50.00

INDEX OF SHEETS

SHEET DESCRIPTION

1 COVER SHEET

2 INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

3 - 5 SUMMARY OF QUANTITIES

6 ALIGNMENT, TIES, AND BENCHMARKS

7 - 8 EXISTING AND PROPOSED TYPICAL SECTIONS

9 - 10 SCHEDULE OF QUANTITIES

11 PLAN AND PROFILE SHEET

12 - 13 MAINTENANCE OF TRAFFIC PLAN

704001-07 TEMPORARY CONCRETE BARRIER

780001-05 TYPICAL PAVEMENT MARKINGS

886001-01 DETECTOR LOOP INSTALLATIONS

886006-01 TYPICAL LAYOUT FOR DETECTION LOOPS

781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

14 LANDSCAPING PLAN

15 - 35 BRIDGE PLANS

36-42 DETAILS

43-48 CROSS SECTIONS

HIGHWAY STANDARDS

	•
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
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
701006-05	OFF-ROAD 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 OPERATIONS - DAY ONLY
701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-04	TRAFFIC CONTROL DEVICES

GENERAL NOTES

G. N. -100

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

G. N. -100A

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

G. N. -105.09A

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

G. N. -280

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. -406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G. N. - 406H

THE FOLLOWING MIXTURES ARE APPLICABLE FOR THIS PROJECT:

LOCATION:	IL 49	IL 49
MIXTURE USE:	BASE COURSE OPTION, FLEX. CONN.	SURFACE COURSE, HMA SHOULDERS
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes = 50	4.0% @ Ndes = 50
MIXTURE COMPOSITION: (GRADATION)	IL 19.0	1L 9.5
FRICTION AGGREGATE:	N. A.	MIX C
MIXTURE WEIGHT (LB/SQ YD/IN)	112	112
QUALITY MANAGEMENT PROGRAM	OC/QA	QC/QA
SUBLOT SIZE	N. A.	N, A.

G. N. -609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

G. N. -703A

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).

G.N. -781 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.

ette vaxe :	USER NAME I Hayana	DESIGNED -	REVISED -			18	שור שור	HWAY STANDARDS	······································	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
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TOTAL QUANTITY
FAP 836 (IL 49)
EDGAR COUNTY
RURAL 2-LANE
80% FEDERAL
20% STATE
BRIDGE
0014

CODE NO.	ITEM	UNIT	BRIDGE 0014 023-0018
		The same was the same and same	
20200100	EARTH EXCAVATION	CU YD	70
20400800	FURNISHED EXCAVATION	CU YD	320
25000210	SEEDING, CLASS 2A	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	50
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	50
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	50
25100115	MULCH, METHOD 2	ACRE	0.25
25100630	EROSION CONTROL BLANKET	SO YD	1675
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000305	TEMPORARY DITCH CHECKS	FOOT	45
28000400	PERIMETER EROSION BARRIER	FOOT	204
28100109	STONE RIPRAP, CLASS A5	SO YD	521
28200200	FILTER FABRIC	SO YD	521
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	29

TOTAL QUANTITY
FAP 836 (IL 49)
EDGAR COUNTY
RURAL 2-LANE
80% FEDERAL
20% STATE
BRIDGE
0014
023-0018 CODE ITEM UNIT NO. 40600275 BITUMINOUS MATERIALS (PRIME COAT) POUND 562 40600990 TEMPORARY RAMP 54 SQ YD 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON 132 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SO YD 21.3 44000100 PAVEMENT REMOVAL SQ YD 38 44000155 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SQ YD 1217 44004250 PAVED SHOULDER REMOVAL SQ YD 13.5 48102100 AGGREGATE WEDGE SHOULDER, TYPE B TON 14 48203100 HOT-MIX ASPHALT SHOULDERS TON 19 50101500 REMOVAL OF EXISTING SUPERSTRUCTURES EACH 1 50102400 3.6 CONCRETE REMOVAL CU YD 50105220 PIPE CULVERT REMOVAL FOOT 30 50300225 CONCRETE STRUCTURES CU YD 10.1 50300255 CONCRETE SUPERSTRUCTURE CU YD 55.4

* SPECIALTY ITEM

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EDGAR COUNTY RURAL 2-LANE 80% FEDERAL 20% STATE BRIDGE CODE 0014 023-0018 UNIT NO. ITEM SQ YD 50300260 BRIDGE DECK GROOVING 113 50300300 | PROTECTIVE COAT SQ YD 113 50400305 PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) SQ FT 3639 50800205 REINFORCEMENT BARS, EPOXY COATED POUND 13560 50800515 BAR SPLICERS EACH 127 50901050 STEEL RAILING, TYPE SM FOOT 290 51500100 NAME PLATES EACH 52000110 PREFORMED JOINT STRIP SEAL FOOT 73 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 405 58300100 PORTLAND CEMENT MORTAR FAIRING COURSE FOOT 796 58700300 CONCRETE SEALER SQ FT 3 59000200 EPOXY CRACK INJECTION FOOT 139 * 63000001 STEEL PLATE BEAM GUARDRAIL. TYPE A, 6 FOOT POSTS FOOT 62.5 * 63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A EACH 4

			TOTAL QUANTITY FAP 836 (IL 49) EDGAR COUNTY RURAL 2-LANE 80% FEDERAL 20% STATE BRIDGE
CODE NO.	ITEM	UNIT	0014 023-0018
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
63200310	GUARDRA]L REMOVAL	FOOT	558
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5
57100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450.	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	149
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	853
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE).	EACH	2
70600350	TEST LEVEL 3 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE),	EACH	2
	TEST LEVEL 3	1	

* SPECIALTY ITEM

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TOTAL QUANTITY FAP 836 (IL 49)

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FAP 836 (IL 49) EDGAR COUNTY RURAL 2-LANE 80% FEDERAL 20% STATE BRIDGE 0014 023-0018 CODE ITEM UNIT NO. * 78001110 PAINT PAVEMENT MARKING - LINE 4" FOOT 1673 * 78100100 RAISED REFLECTIVE PAVEMENT MARKER EACH 11 * 78200410 GUARDRAIL MARKERS, TYPE A EACH 8. * 78200420 GUARDRAIL MARKERS. TYPE B EACH 4 TERMINAL MARKER - DIRECT APPLIED EACH 4. 78300100 PAVEMENT MARKING REMOVAL SQ FT 204 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH 4 X0324744 REMOVAL OF EXISTING PRECAST CONCRETE UNITS SO FT 172 X6050065 REMOVING INLETS, SPECIAL 2. EACH X7040125 FINNING TEMPORARY CONCRETE BARRIER EACH 21 X7200201 WIDTH RESTRICTION SIGNING 1 L SUM Z000:300 ASBESTOS BEARING PAD REMOVAL EACH 48 Z0002900 BASE COURSE (OPTION) 'SO YD' 1,43 Z0004552 APPROACH SLAB REMOVAL SQ YO 73

* SPECIALTY ITEM

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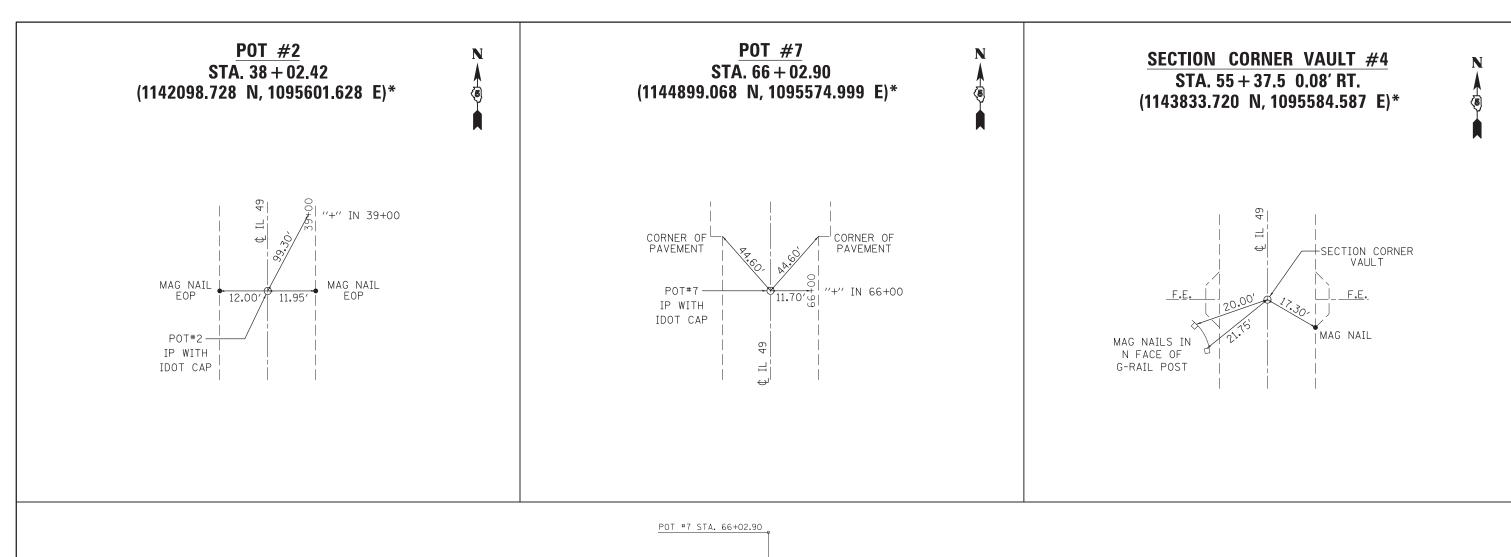
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DEPARTMENT OF TRANSPORTATION

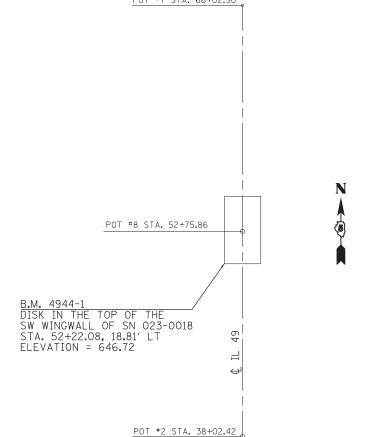
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			TOTAL QUANTITY FAP 836 (IL 49) EDGAR COUNTY RURAL 2-LANE 80% FEDERAL 20% STATE
CODE NO.	ITEM	UNIT	BRIDGE 0014 023-0018
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO O	50 FT	63
The state of the s	THAN 5 INCHES)		
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER	SO FT	2
	THAN 5 INCHES)	and the second s	
Z0038700	PERMANENT BENCH MARKS	EACH	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

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TOTAL QUANTITY

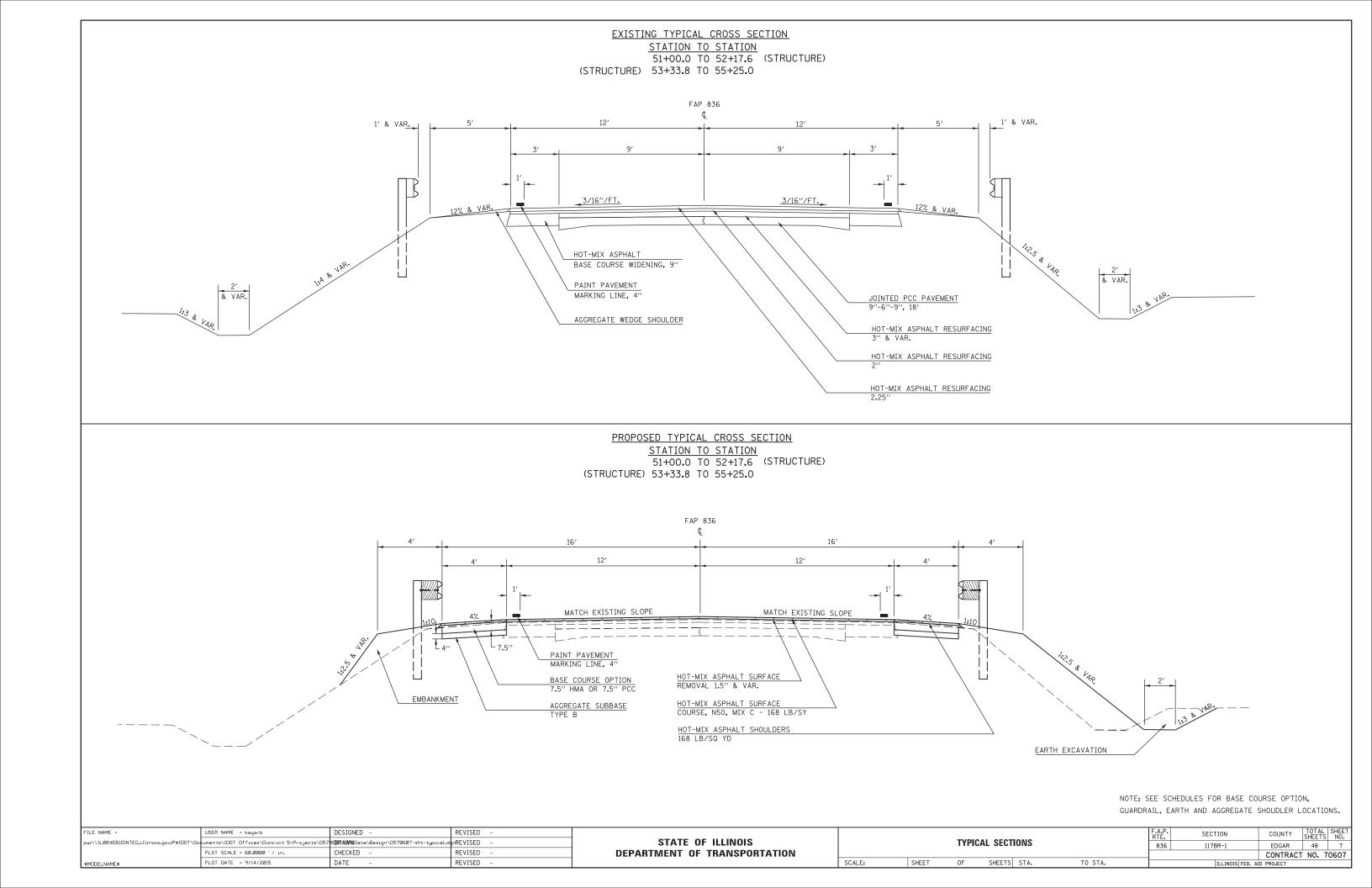




*STATE PLANE GRID COORDINATES

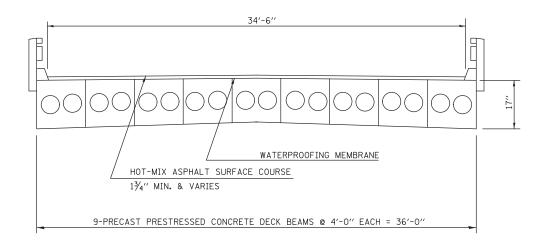
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SEE SURVEY BOOK 4944 FOR MORE INFORMATION



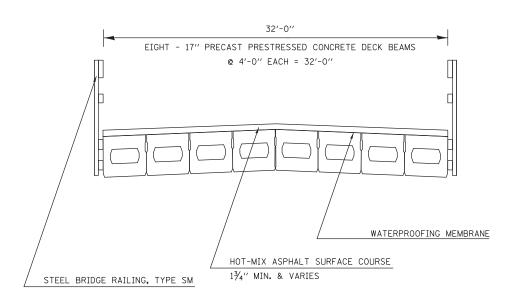
EXISTING TYPICAL CROSS SECTION STATION TO STATION 52+17.6 TO 53+33.8

S.N. 023-0018



PROPOSED TYPICAL CROSS SECTION STATION TO STATION 52+17.6 TO 53+33.8

S.N. 023-0018



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CADTUMODE

		CARIENCE			
LOCATION	20200100 EARTH EXCAVATION (CUT)	•EARTH EXCAVATION ADJUSTED FOR SHINKAGE CHI YO	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	20400800 FURNISH EXCAVATION CU YD
STAGE I (RT)	67.4	50.6	298.4	-247.8	247.8
STAGE II (LT)	0.0	0.0	67.4	-67.4	67.4
TOTAL	67.4	50.6	365.8	-315.2	315.2
USE	70	-	-		320

^{*}SHRINKAGE FACTOR IS 25%

LANDSCAPING ITEMS

LOCATION	25000210 SEEDING CLASS 2A ACRE	25100115 MULCH METHOD 2 ACRE	25100630 EROSION CONTROL BLANKET SO YO	25000400 NITROGEN FERTILIZER NUTRIENT POUND	25000500 PHOSPHORUS FERTILIZER NUTRIENT POUND	25000600 POTASSIUM FERTILIZER NUTRIENT POUND	28000250 *TEMPORARY EROSION CONTROL SEEDING POLIND
SE QUADRANT	0.13	0.05	384.4	11.6	11.6	11.6	12.9
NE QUADRANT	0.16	0.06	472.6	14.1	14.1	14.1	15.6
SW QUADRANT	0.12	0.05	333.7	11.1	11.1	11.1	12.4
NW QUADRANT	0.11	0.01	484.7	9,6	9.6	9,6	10.7
TOTAL	0.52	0.17	1675.31	46.50	46.50	46.50	51.66
USE	0,50	0.25	1675.0	50	50	50	100

[•]QUANTITY FOR 2 APPLICATIONS

TEMPORARY EROSION CONTROL ITEMS

			A A A A A A A A A A A A A A A A A A A	28000305 TEMPORARY DITCH	28000400 PERIMETER EROSION
			LENGTH	CHECKS	BARRIER
0/5	STATION	STATION	FOOT	FOOT	1001
LT	52+13.0		15,00	15.0	
RT	52+17.0	-	15.00	15.0	
RT	53+51.0	~	15.00	15.0	
LI_	53+21.0	55+25.0	204,00		204.0
			TOTAL	45.0	204.0
			USE	45.0	204.0

31101000 SUBBASE GRANULAR MATERIAL TYPE B

				LENGTH	WIDTH	THICKNESS	VOLUME	
STAGE	0/5	STATION	STATION	FOOT	FOOT	INCH	CU YD	TONS
PRE	LT	50+96.3	51+16.7	20.4	4.0	4.0	1,0	1.8
PRE	LT	54+51,7	54+66.7	15.0	4.0	4,0	0.7	1.3
	RI,	51+07.1_	52+14.6	107.5	4.0	4.0	5.3	9,6
1	•RT	52+05.7	52+08.7	3.0	4.0	18.5	0.7	1.2_
•	RT	53+66.7	54+93.0	126.3	4.0	4.0	6.2	11.2
	••RT	53+56.3	53+57.8	1,5	4.3	20.6	0.4	0.7
	LT	52+08,4	52+20.7	12.3	4.0	4,0	0,6	1,1
IÏ	•L7	52+10.5	52+13.5	3,0	4.0	18.5	0.7	1.2
	••[]	53+56.3	53+57.8	1,5	4,3	20.6	0.4	0.7
			~					
·							TOTAL	29,0
							USE	29.0

- •THE ADDITIONAL THICKNESS IS INTENDED TO FILL THE VOID CREATED BY THE REMOVAL OF THE APPROX. 30" DEEP PCC SHOULDER INLETS BOX.
- **THIS QUANTITY IS NEEDED TO FILL THE VOID REMINAING AFTER REMOVAL OF THE APPROACH BEAM FOUNDATION. THE FOUNDATION AVERAGE DEPTH IS ESTIMATED TO BE 1.72 FEET AND ITS REMOVAL IS INCLUDED IN THE COST OF 'REMOVAL OF EXISTING PRECAST UNITS'.

40600990 TEMPORARY RAMP

		LENGTH	WIDTH	AREA
STATION	STATION	FOOT	FOOT	SQ YD
50+00.0	50+05.0	5.0	24.0	13.3
52+14.6	52+19.6	5.0	24,0	13.3
50+69.8	50+74.8	5.0	24.0	13.3
55+20.0	55+25.0	5.0	24.0	13.3
<u></u>			TOTAL	53.3
			USE	54.0

SURFACE REMOVAL AND HOT-MIX ASPHALT ITEMS

							وسوادا المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجعة والمراجعة والمراجعة والمراجع والمراجع والمراجعة	*. ^		
	LOCA;		LENGTH	MIOIH	AREA	44000155 HOT-MIX ASPHALT SURFACE REMOVAL 1.5"	40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C". N50	42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	48203100 HOT-MIX ASPHALT SHOULDERS	40600275 •BITUMINOUS MATERIALS (PRIME_COAT)
0/5	STA	STA	FOOT	FOOT	SQ YD	SO YO	TON	SO YD	I TON	POUND
CL	50+00.0	52+19,6	219.6	24.0	585.5	585.5	49.2			263.5
CL	52+21.4	53+33.7	112.2	32.0	399.0		48			-
RT. STG I	53+64.0	53+70.0	6.0	17.0	11.3			11.3		7.7
LT. STG II	53+64.0	53+70.0	6.0	15.0	10.0			10.0		6.8
CL	53+70.3	55+25.0	154.7	24.0	412.6	412.6	34.7			185.7
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LT I	50+96.3	52+20.7	124.4	4.0	55.3	55,3			4,6	24,9
LT	53+72.9	55+06.7	133.8	4.0	59.5	59.5			5.0	26.8
RT	51+07.1	52+14.6	107.5	4.0	47.8	47.8	ŧ		4.0	21.5
RT	53+66.7	54+93.0	126.3	4.0	56.1	56.1	A TO DESCRIPTION OF THE PROPERTY OF THE PROPER	omment to the contribution to the manufacture of the transfer	4.7	25.3
			***************************************			\$	\$1		described to the second	The state of the s
					TOTAL	1216.8	131.9	21.3	18.4	562.0
					HSF	1217.0	132.0	21.3	19.0	562.0

^{*}APPLICATION RATE IS 0.05 LB/SO FT ON MILLED HMA SURFACE, 0.025 LB/SQFT FOR FOG COAT

APPROACH AND PAVEMENT REMOVAL

-					••LENGTH	WIDTH	Z0004552 APPROACH SLAB REMOVAL	44000100 PAVEMENT REMOVAL
L	STAGE	0/\$	•STATION	*STATION	FOOT	FOOT	SQ YD	S0 Y0
ľ	ī	RT	53+34.0	53+57.0	24.50	15.25	41.5	
Ł	1	RT	53+57.0	53+70.0	11.70	14.00		18.2
ſ	17	LT	53+34.0	53+57.0	21,30	13,25	31,4	
L	11	LT	53+57.0	53+70.0	14.60	11.90		19.3
E								
Ł				~~~~		TOTAL	72.9	37.5
Ľ						USE	73.0	38.0
-								

^{*}STATION GIVEN IS ALONG THE STAGE REMOVAL LINE.

•• DUE TO SKEW/TRAPEZOIDAL AREAS, THE LENGTH GIVEN IS MEASURED AT THE CENTER OF THE REMOVAL AREA, NOT AT THE FAS 493 CL.

48102100 AGGREGATE WEDGE SHOULDER TYPE B

STAGE	0/5	STATION	STATION	TONS
ī	RI	50+00.0	51+07.1	4,7
*	RT	54+93.0	55+25.0	1,5
Ħ	LŢ.	50+00.0	50+96.3	6.2
14		55+06.7	55+25.0	0.8
	antigographicosyddiaeaegdyddynos cagaesen y		TOTAL	13.2
	r jakania 1988aan juurus as kul		USE	14.0

48			
	11,3		7.7
	10.0	1	6,8
34.7			185.7
	<u></u>		
		4,6	24,9
		5.0	26.8
		4,0	21.5
		4.7	25.3
	Semantar repairment, a mande account et representation de province acquire de court province de la constitució	and the specific and the second of the secon	and the second s
131.9	21.3	18.4	562.0
73.0	21.3	19.0	562.0

44000100 PAVED SHOULDER REMOVAL

50105220 PIPE CULVERT REMOVAL

· · · · · · · · · · · · · · · · · · ·		[LENGTH
STAGE !	0/5	STATION	STATION	FOOT
I	RT	53+58.0	53+88.0	30.0
			TOTAL	30.0
			LISE	30.0

REY.

FILE HAVE :	USER NOWE = keysrb	DESIGNED -	REVISED -		****					F.A.P.	SECTION	COUNTY	TOTAL SHEET
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1	PLOT SCALE = 40.0002 17 m.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 70607
\$MODELNAMES	PLOT DATE : 9/29/2015	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FEO. AI	ID PROJECT	

STEEL PLATE BEAM GUARDRAIL ITEMS

		LOCATION		63100167 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	63100169 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS	63100087 TRAFFIC BARRIER TERMINAL TYPE 6A	50901050 STEEL RAILING TYPE SM	78200410 GUARDRAIL MARKERS TYPE A	78200420 GUARDRAIL MARKERS TYPE B	78201000 TERMINAL MARKERS DIRECT APPLIED
STAGE	0/S	STATION STATION L	ENGTH	EACH	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH
		50+59.5 51+09.5	50.0	1.0							1.0
		51+09.5 51+72.0	62.5			62.5			2.0		
т .	RT	51+72.0 52+18.5	46.5				1.0				
1	I I	52+16.0 53+61.0	145.0					145.0		2.0	
		53+58.5 54+05.0	46.5				1.0		2.0		
		54+05.0 54+55.0	50.0		1.0				2.0		1.0
		51+28.5 51+78.5	50.0	1.0					2.0		1.0
		51+78.5 52+25.0	46.5				1.0		2.0		
II	LT	52+22.5 53+67.5	145.0					145.0		2.0	
		53+65.0 54+11.5	46.5				1.0		2.0		
		54+11.5 54+61.5	50.0		1				2.0		1.0
		<u> </u>									
			TOTAL	2.0	2.0	62.5	4.0	290.0	8.0	4.0	4.0
			USE	2.0	2.0	62.5	4.0	290.0	8.0	4.0	4.0

63200310 GUARDRAIL REMOVAL

				LENGTH
STAGE	0/S	STATION	STATION	(FOOT)
т	RT	50+38.3	52+15.0	176.7
1	RT	53+56.5	54+58.2	101.7
II	LT	51+20.5	52+22.4	101.9
11	LT	53+57.3	55+34.2	176.9
			TOTAL	557.2
			USE	558.0

SHORT TERM PAVEMENT MARKING AND WORK ZONE PAVEMENT MARKING REMOVAL

	LOCATION		*TEMPORARY PAVEMENT MARKING LINE 4'' (WHITE)	*TEMPORARY PAVEMENT MARKING LINE, 24" (WHITE)	70300100 **SHORT TERM PAVEMENT MARKING	70301000 WORK ZONE PAVEMENT MARKING REMOVAL
STAGE	STATION	STATION	FOOT	FOOT	FOOT	SQ FT
	49+33.5	56+23.6	690.1			227.7
1 , [50+96.3	55+06.7	410.4			135.4
1 1	49+23.5			12.0		24.0
	56+83.9			12.0		24.0
	49+94.7	56+56.9	662.2			218.5
II	51+11.0	54+91.3	380.3			125 . 5
11	49+3	34.8		12.0		24.0
	56+6	6.9		12.0		24.0
FINAL	49+23.5	56+66.9			148.7	49.1
		TOTAL	2143.0	48.0	148.7	852.3
		USE	_	_	149.0	853

*TEMPORARY PAYEMENT MARKINGS ARE NOT PAID FOR SEPARATELY; THEY ARE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL AND PROTECTION STANDARD ON WHICH THEY ARE SHOWN.

**INCLUDES TWO APPLICATIONS FOR YELLOW CENTERLINE SKIP DASH; ONE APPLICATION AFTER SURFACE REMOVAL AND ONE APPLICATION AFTER FINAL SURFACE IS PLACED.

TRAFFIC CONTROL ITEMS

		LOCA	TION		70400100 TEMPORARY CONCRETE BARRIER	70400100 RELOCATE TEMPORARY CONCRETE BARRIER	70600250 IMPACT ATTENUATOR TEMPORARY NON- REDIRECTIVE TL3	70600250 IMPACT ATTENUATOR RELOCATE NON- REDIRECTIVE TL3	*X7040125 PINNING TEMPORARY CONCRETE BARRIER
L	STAGE	STATION	STATION	LENGTH	FOOT	EACH	EACH	EACH	EACH
	I	50+98.1	55+04.2	406.1	406.1		2.0		12
	II	51+11.0	54+91.3	380.3		380.3		2.0	9
				TOTAL	406.1	380.3	2.0	2.0	21.0
				USE	406.1 (32 barriers)	380.3 (30 barriers)	2.0	2.0	21

*IN STAGE 1, THE TEMPORARY CONCRETE BARRIER ADJACENT TO THE PROPOSED APPROACH AND FLEXIBLE CONNECTOR MUST BE FULLY PINNED ON THE TRAFFIC SIDE OF THE BARRIER. IN STAGE 2, THE TEMPORARY CONCRETE BARRIER ADJACENT TO THE FLEXIBLE CONNECTOR MUST BE FULLY PINNED ON THE TRAFFIC SIDE OF THE BARRIER. TRANSITIONS FROM FULLY PINNED TO UNPINNED BARRIER SHALL BE PER THE REQUIREMENTS GIVEN IN THE SPECIAL PROVISIONS.

78300100 PAVEMENT MARKING REMOVAL

0/S	STATION	STATION	FOOT	SQ FT			
LT	50+96.3	55+06.7	410.4	135.4			
CL	50+79.0	55+24.0	111.3	36.7			
RT	51+07.1	54+93.0	96.5	31.8			
	TOTAL 618.1						
	USE -						

PAVEMENT DELINEATION ITEMS

						78300200	
		I T FDGF	RT FDGF	CL DASH	78001110 PAINT PAVEMENT	RAISED REFLECTIVE PAVEMENT MARKER	78100100 RAISED REFLECTIVE
LOCA	ATION	(WHITE)	(WHITE)	(YELLOW)	MARKING LINE 4"	REMOVAL	PAVEMENT MARKERS
STA	STA	FOOT	FOOT	FOOT	FOOT	EACH	EACH
49+23.5	9+23.5 56+66.9 743.4 743.4		185.9	1672.7	11.0	11.0	
				TOTAL	1672.7	11.0	11.0
				USE	1673.0	11.0	11.0

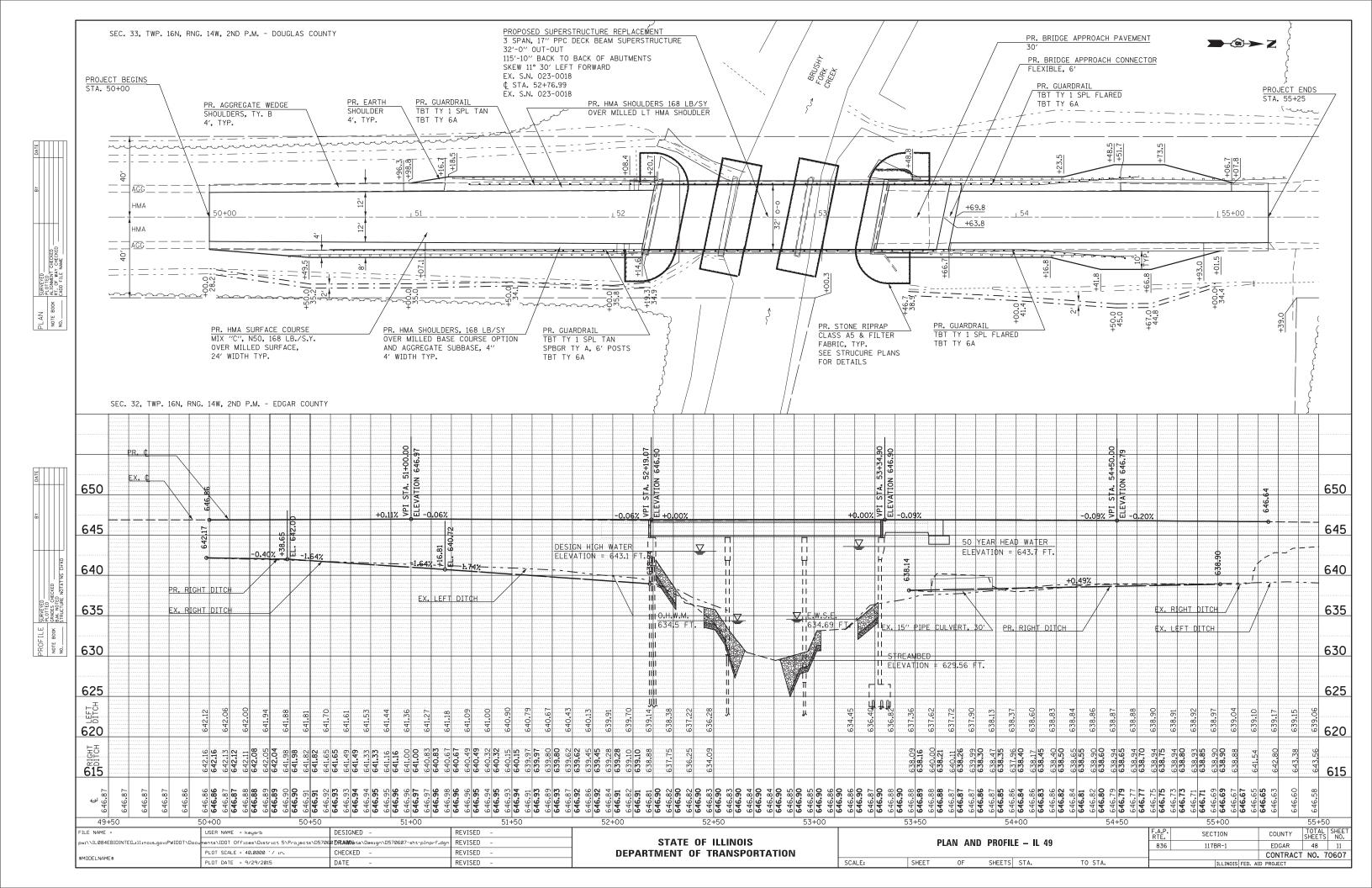
Z0002900 BASE COURSE OPTION

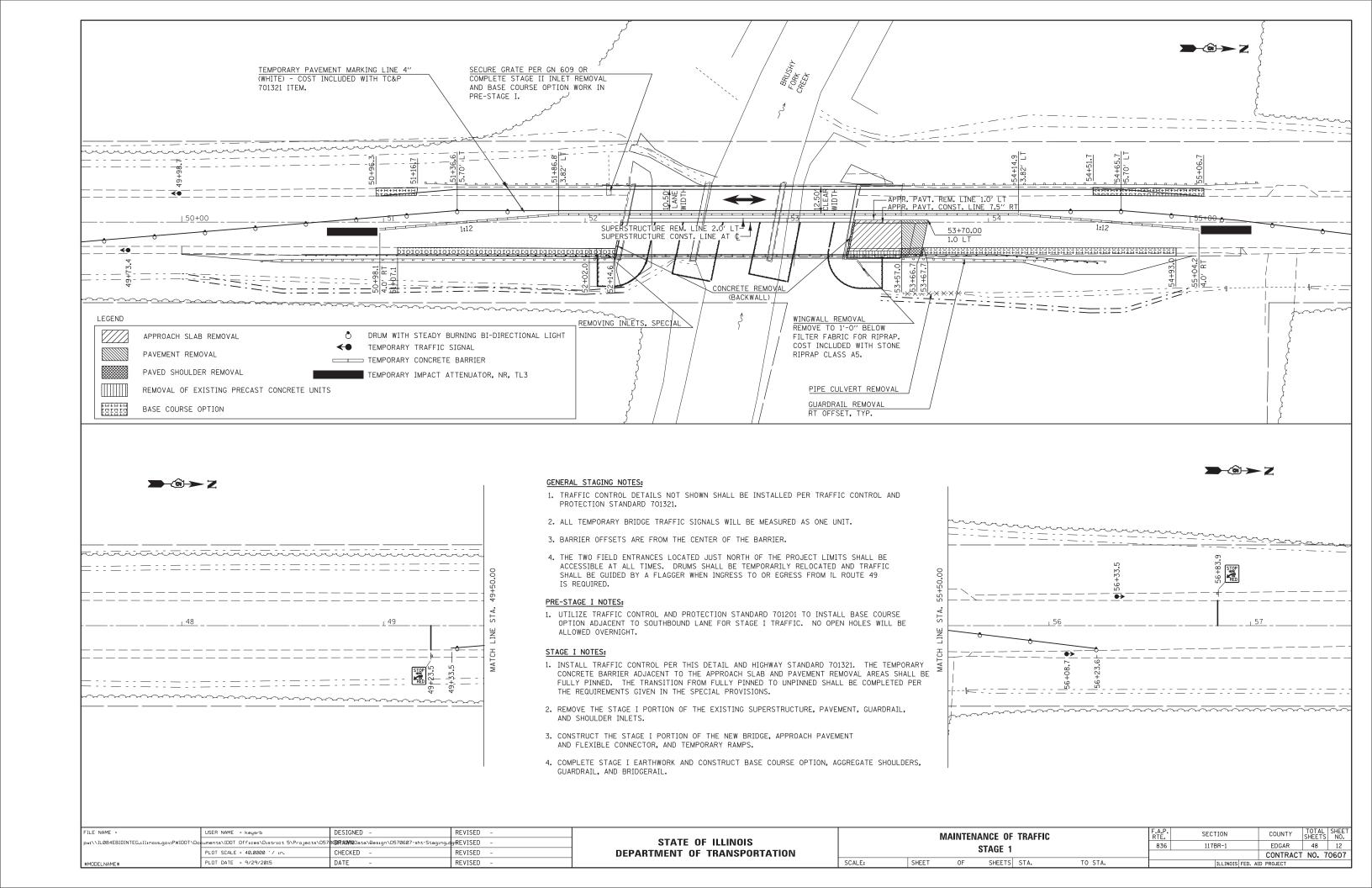
				LENGTH	WIDTH	AREA
STAGE	0/S	STATION	STATION	FOOT	FOOT	SQ YD
PRE	LT	50+96.3	51+16.7	20.4	4.0	9.1
I IVL	LT	54+51.7	55+06.7	55.0	4.0	24.4
т	RT	51+07.1	52+14.6	107.5	4.0	47.8
1	RT	53+66.7	54+93.0	126.3	4.0	56.1
II	LT	52+08.4	52+20.7	12.3	4.0	5 . 5
					TOTAL	142.9
					USE	143.0

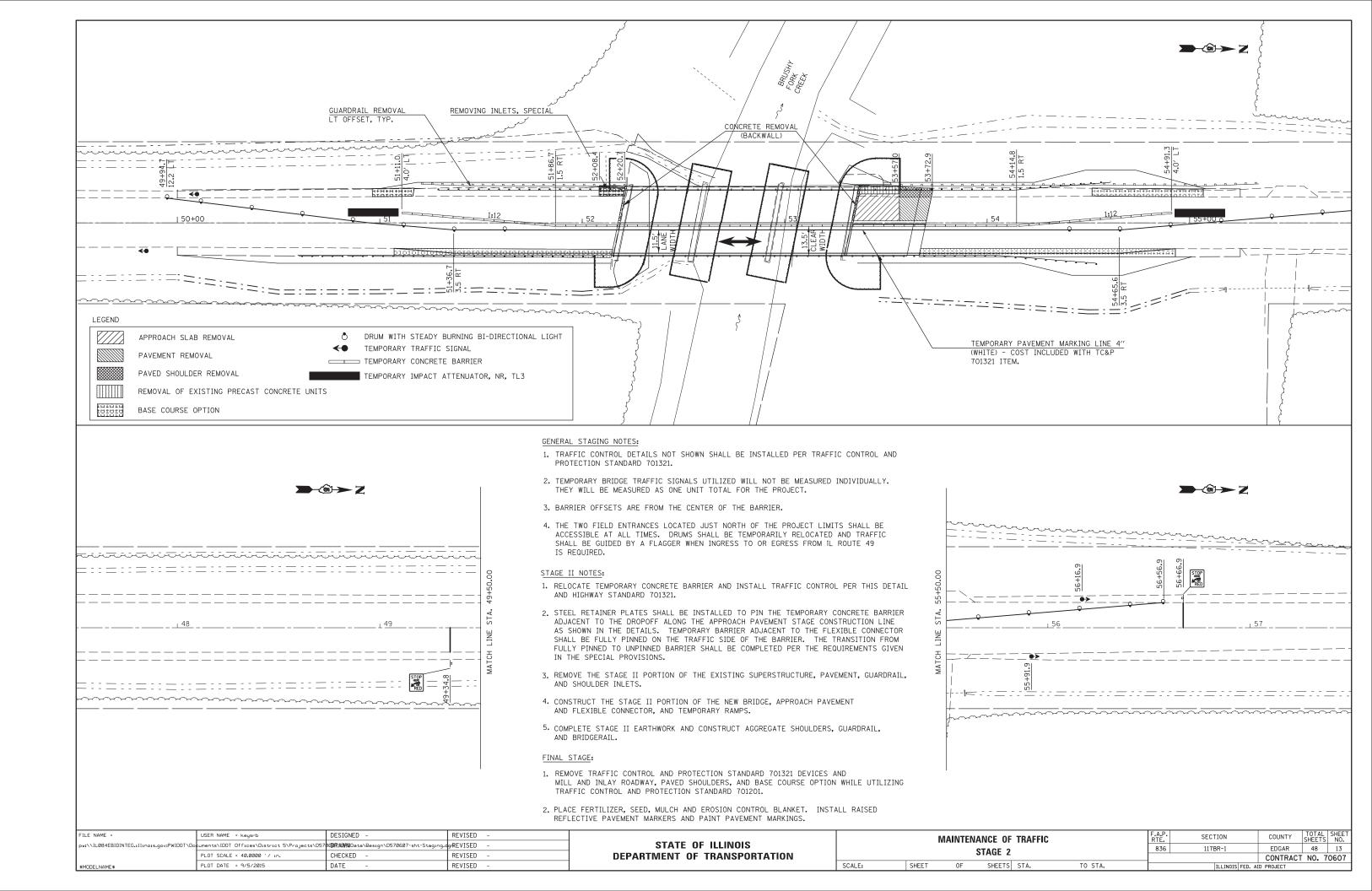
X6050065 REMOVING INLETS, SPECIAL

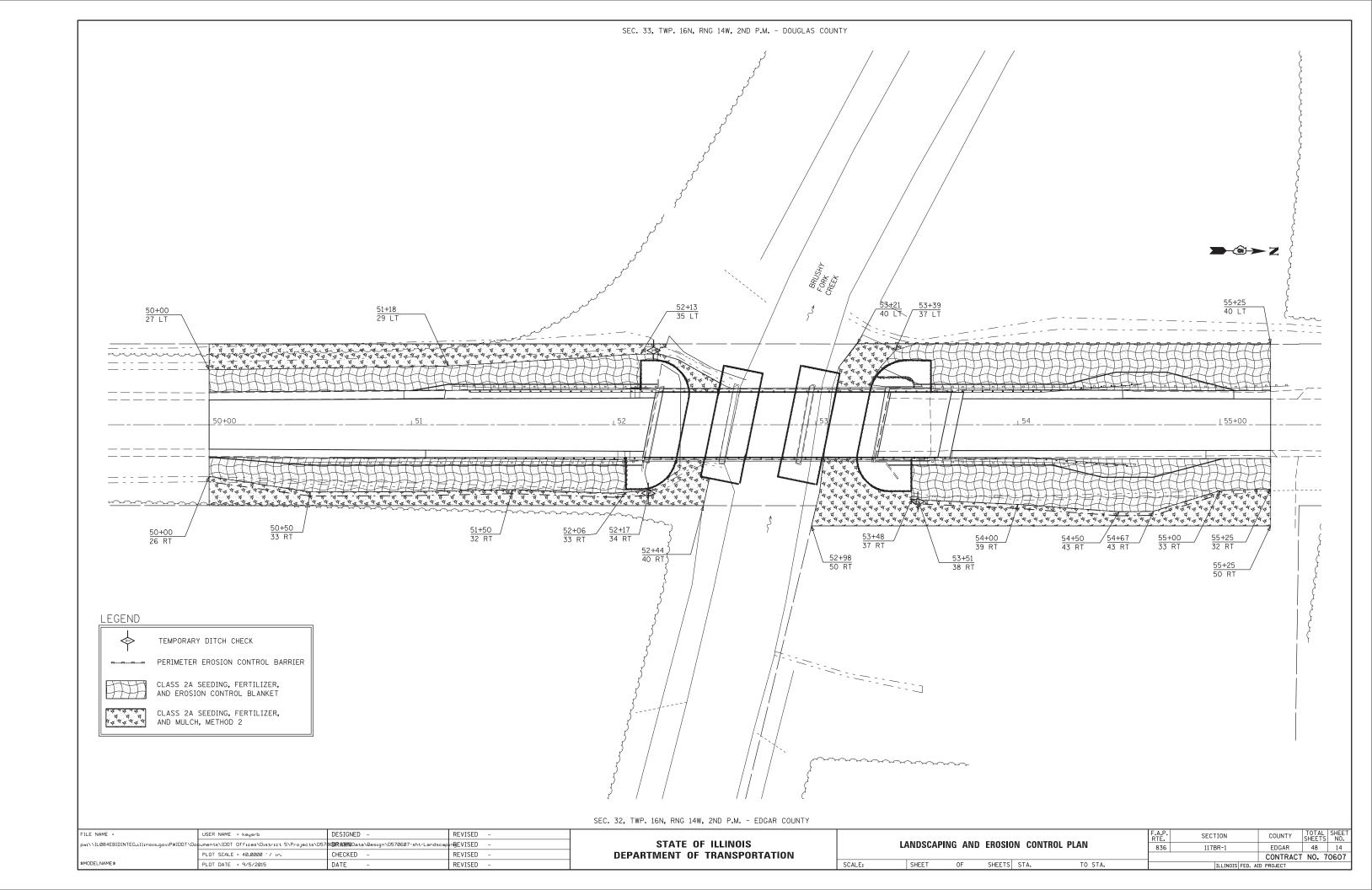
STAGE	0/S	STATION	STATION	EACH
I	RT	52+02.0	52+14.6	1.0
II	LT	52+08.4	52+20.7	1.0
			TOTAL	2.0
			USE	2.0

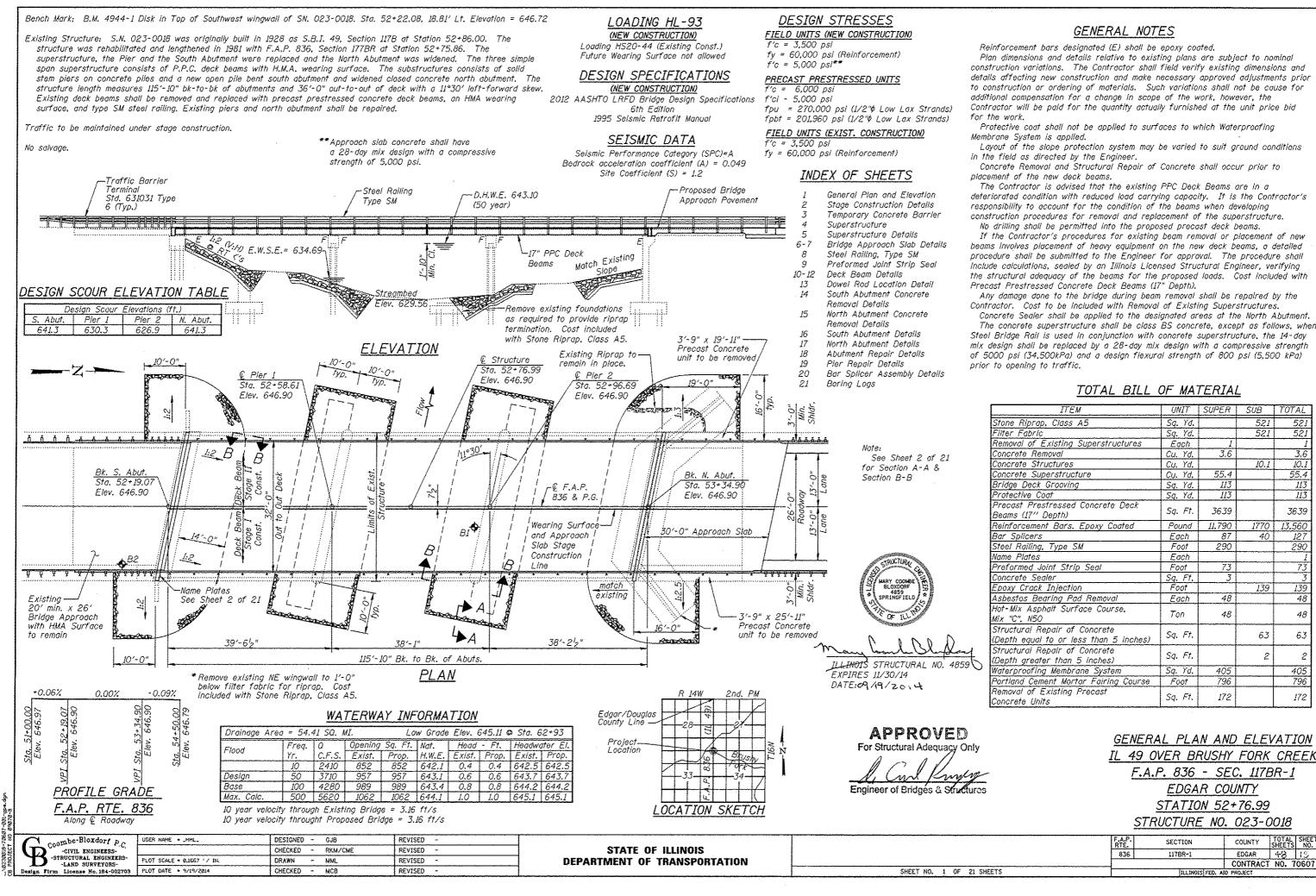
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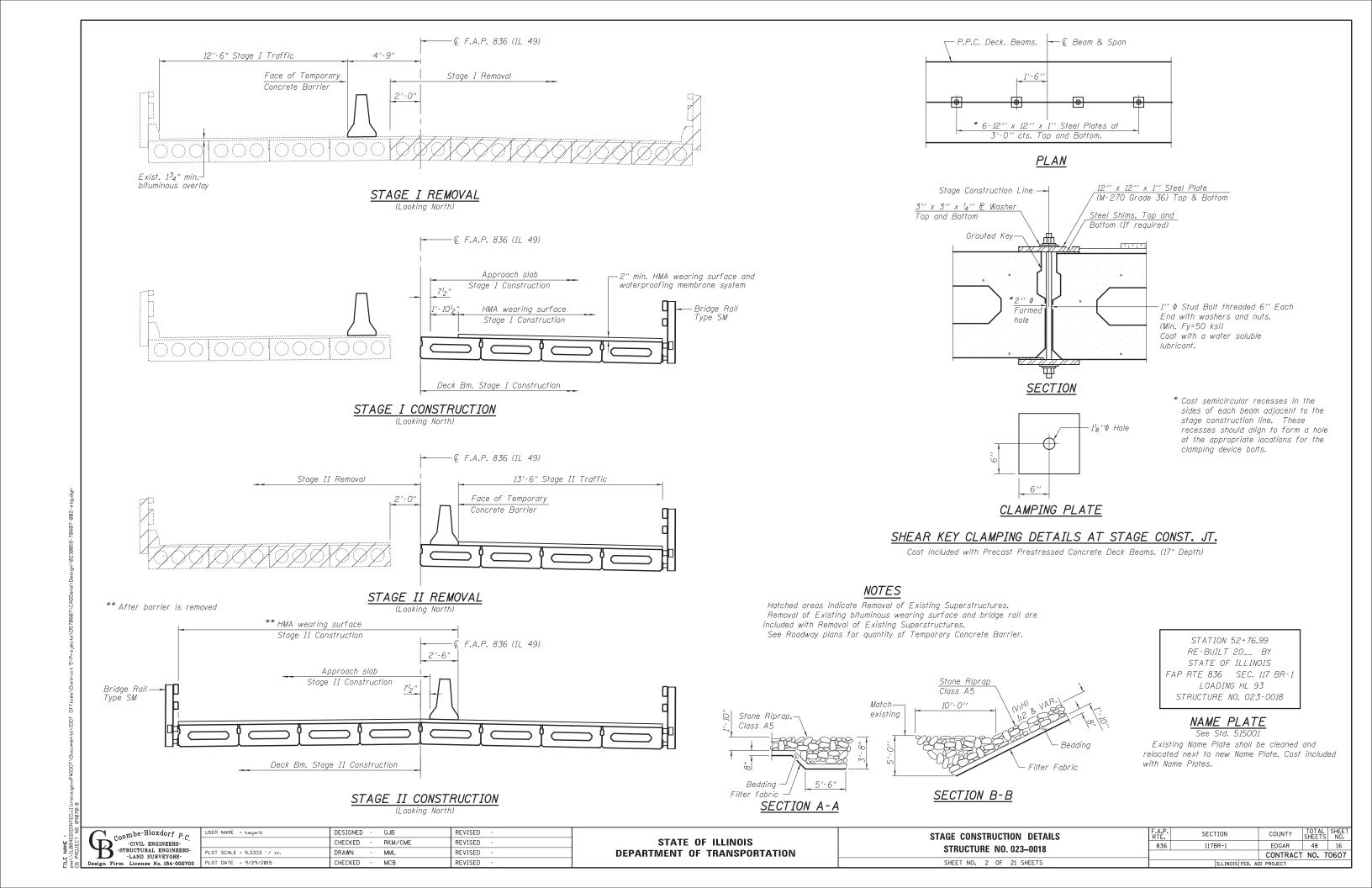
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TOTAL SHEE

EDGAR 4/8 15 CONTRACT NO. 70607

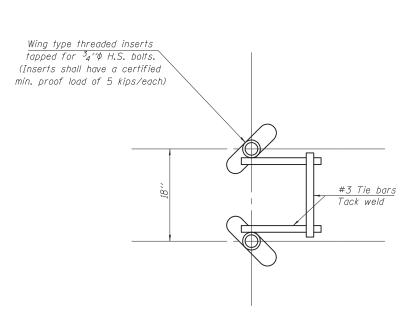
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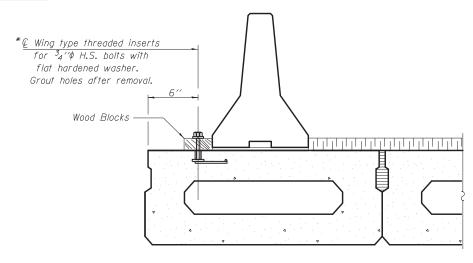


EXISTING PPC DECK BEAMS

NEW PPC DECK BEAMS

SECTIONS THRU PPC DECK BEAMS





* Type of insert selected shall provide 1^l_2 " min. cl. to #3 tie bars.

DETAIL I

The Temporary Concrete Barrier and wood blocks shall not be removed until Stage II Construction PPC Deck Beams have been placed and shear keys grouted.

INSERT DETAIL

Coombe-Bloxdorf P.C	1
-CIVIL ENGINEERS-	ı
-STRUCTURAL ENGINEERS- -LAND SURVEYORS-	ı
Design Firm License No. 184-002703	ı

side only. Cost included with Temporary Concrete Barrier.

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		CHECKED	-	RKM/CME	REVISED -
	PLOT SCALE = 0.1667 ' / in.	DRAWN	-	MML	REVISED -
	PLOT DATE = 9/29/2015	CHECKED	-	MCB	REVISED -
_					

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.P. RTE.	SE
STRUCTURE NO. 023-0018	836	1
SHEET NO. 3 OF 21 SHEETS		

COUNTY TOTAL SHEETS NO.

EDGAR 48 17 SECTION 117BR-1 CONTRACT NO. 70607 ILLINOIS FED. AID PROJECT

NOTES

longitudinally and a minimum of 6" from the end of beams. The Waterproofing Membrane shall extend under the Temporary Concrete Barrier without the asphalt sand seal protection layer. Once the Temporary Concrete Barrier has been removed and the fiberglass fabric of the Waterproofing Membrane is lapped 6", the asphalt sand seal protection layer shall be applied according to

Article 581 of the Standard Specifications.

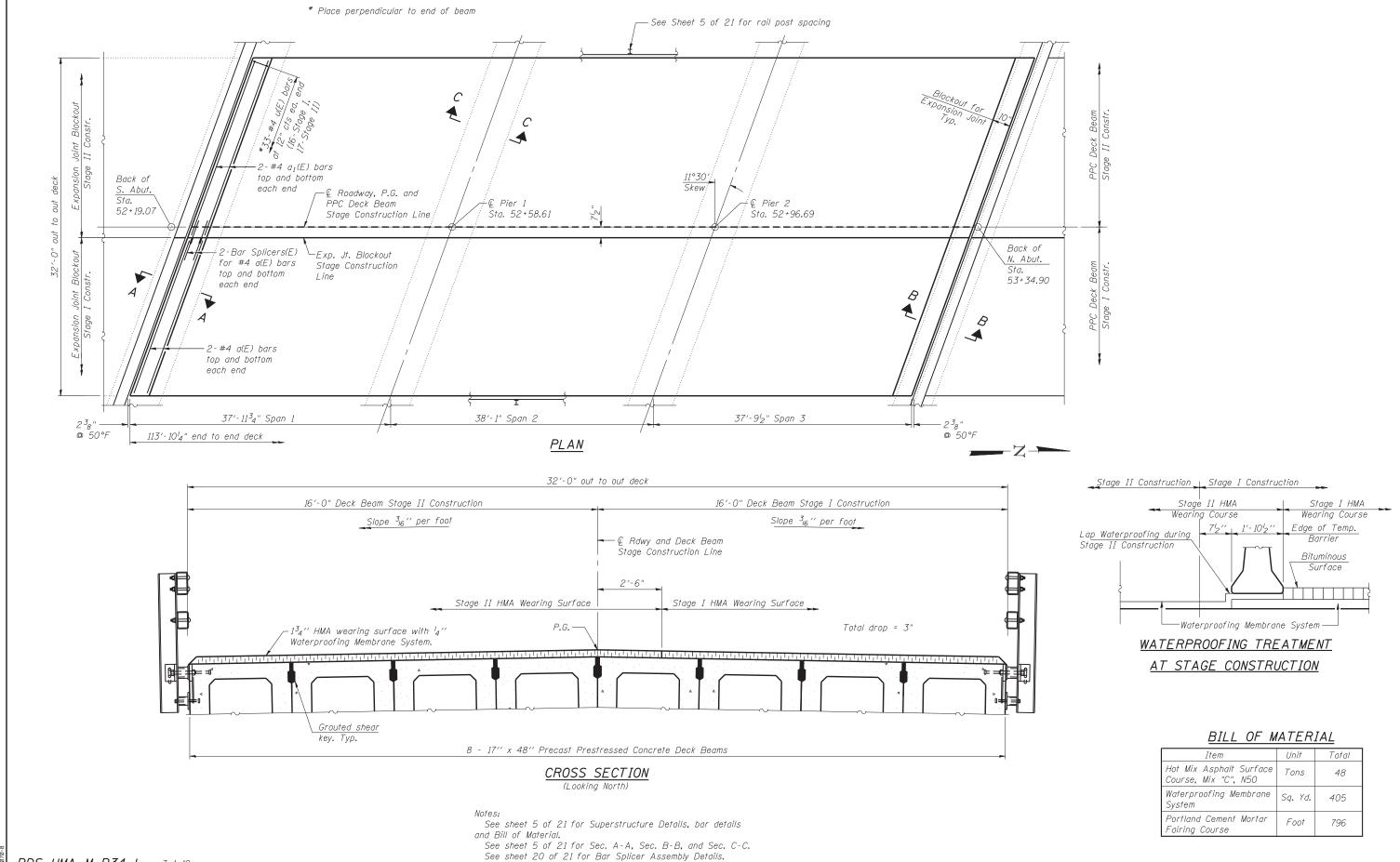
included with Temporary Concrete Barrier.

Prestressed Concrete Deck Beams (21" Depth).

The $^34''\phi$ high strength bolts used to connect the wood blocks shall be tightened to a snug fit without crushing the wood block. The wing type threaded insert assembly shall be spaced 6'-0"

The cost for H.S. bolts, flat headed washers and wood block is

The cost for wing type threaded inserts is included with Precast



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PDS-HMA-M-R34-L

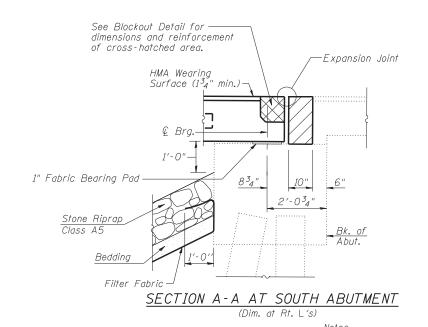
7-1-10

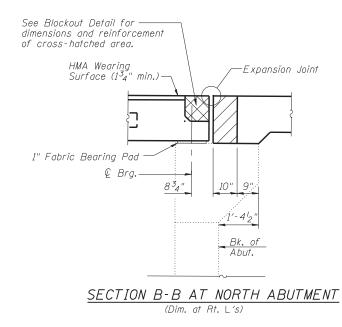
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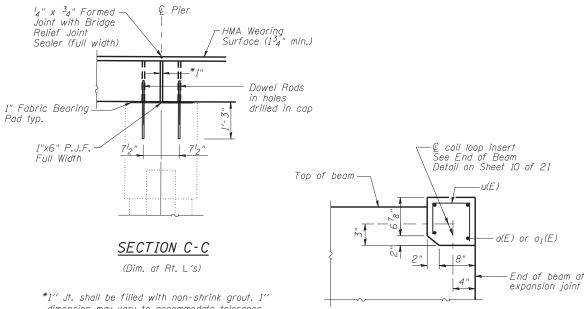
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE **STRUCTURE NO. 023-0018** SHEET NO. 4 OF 21 SHEETS

TOTAL SHEET NO. 48 18 SECTION COUNTY 836 117BR-1 EDGAR CONTRACT NO. 70607







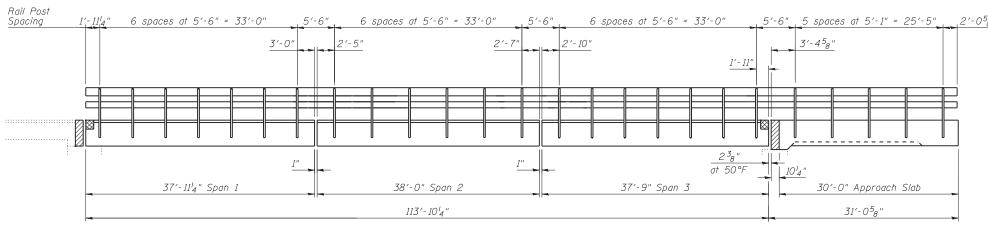
dimension may vary to accommodate tolerance in beam lengths.

BLOCKOUT DETAIL At expansion joints only

BAR u(E)

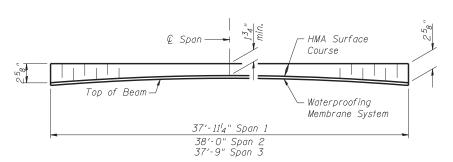


Notes:
Hatched areas and cross-hatched areas to be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint.
See Sheets 16 and 17 of 21 for hatched area details.
See Sheet 9 of 21 for Expansion Joint Details.
See Sheet 12 of 21 for fabric bearing pad details. 6 spaces at 5'-6" = 33'-0"



RAILING ELEVATION

See Sheet 8 of 21 for railing details



ANTICIPATED HMA WEARING SURFACE PROFILE

(For Information Only)

2	coombe-Bloxdorf P.C	USEI
5	-civil engineers-	
3	-STRUCTURAL ENGINEERS- -LAND SURVEYORS-	PLO
۱	Design Firm License No. 184-002703	PLO

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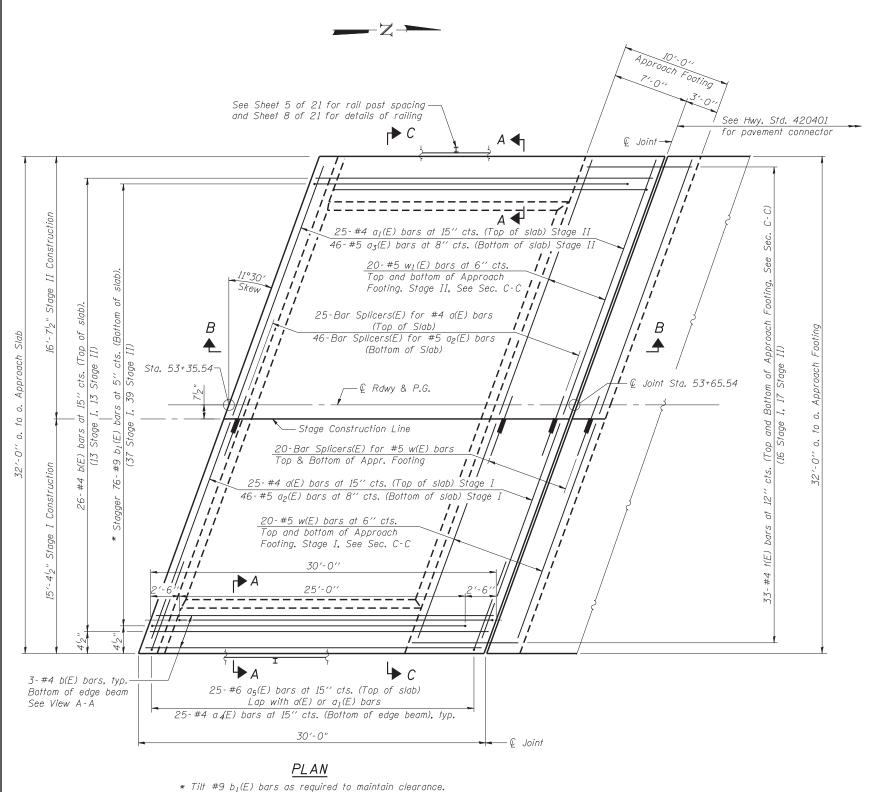
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE DETAILS STRUCTURE NO. 023-0018		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		117BR-1	EDGAR	48	19
31N0010NL NO. 023-0010			CONTRACT	NO. 7	0607
SHEET NO. 5 OF 21 SHEETS		ILLINOIS FED. A	D PROJECT		

SUPERSTRUCTURE RILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#4	15′-4"	
a ₁ (E)	8	#4	16′-7"	
u(E)	67	#4	1'-5"	П
Reinfor Epoxy	cement Coated	Bars,	Pound	230
Concre Supers	te tructure	Cu. Yd.	1.5	

TOTAL SHEET NO. 48 19



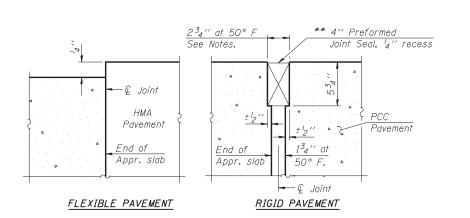
Notes:

See sheet 7 of 21 for Sections B-B & C-C.

a(E) thru $a_3(E)$ bar spacings measured along \mathbb{L} Rdwy.

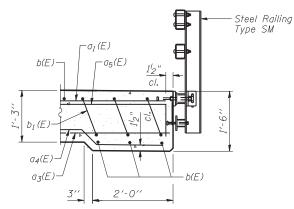
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $1_2^{\prime\prime}$ for installation purposes.

** Cost included with Concrete Superstructure.



PREFORMED JOINT SEAL

DETAIL A



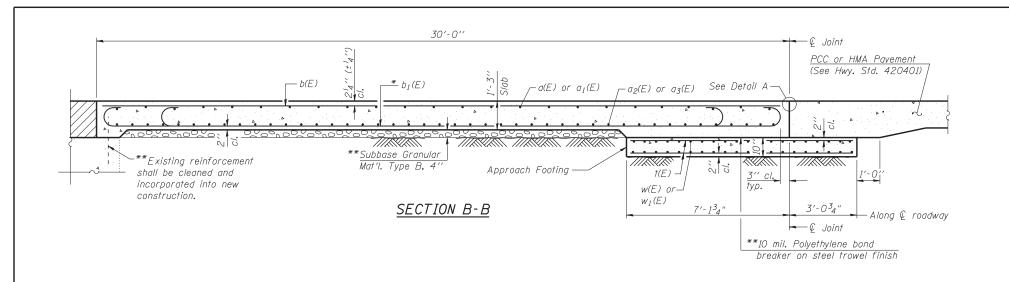
VIEW A-A

	coombe-Bloxdorf P.C
\mathbf{U}	-CIVIL ENGINEERS-
44	-STRUCTURAL ENGINEERS-
	-LAND SURVEYORS-

esign Firm License No. 184-002703

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		CHECKED	-	RKM/CME	REVISED -
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(Sneet 1 of 2)					
BRIDGE APPROACH SLAB DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 023-0018		117BR-1	EDGAR	48	20
			CONTRACT	NO. 7	0607
SHEET NO. 6 OF 21 SHEETS		TILINOIS FED AT	D PROJECT		



Notes:

See sheet 6 of 21 for Detail A.

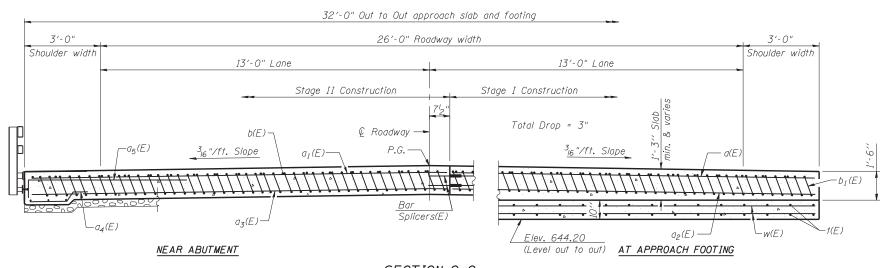
Approach slab concrete shall be paid for as Concrete Superstructure. Approach footing concrete shall be paid for as Concrete Structures.

Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

For bar splicer details, see sheet 20 of 21.

Cost of excavation for approach footing included with Concrete Structures. See Sheets 16 and 17 of 21 for hatched area details.

Approach slab is at north end only.

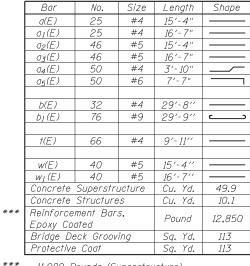


* Tilt #9 $b_1(E)$ bars as required to maintain clearance.

** Cost included with Concrete Superstructure.

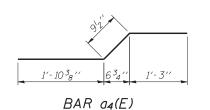
SECTION C-C (See Plan for dimensions not shown)

ONE APPROACH BILL OF MATERIAL



*** 11,080 Pounds (Superstructure) 1,770 Pounds (Substructure)







RA-I 12 - 12 - 12

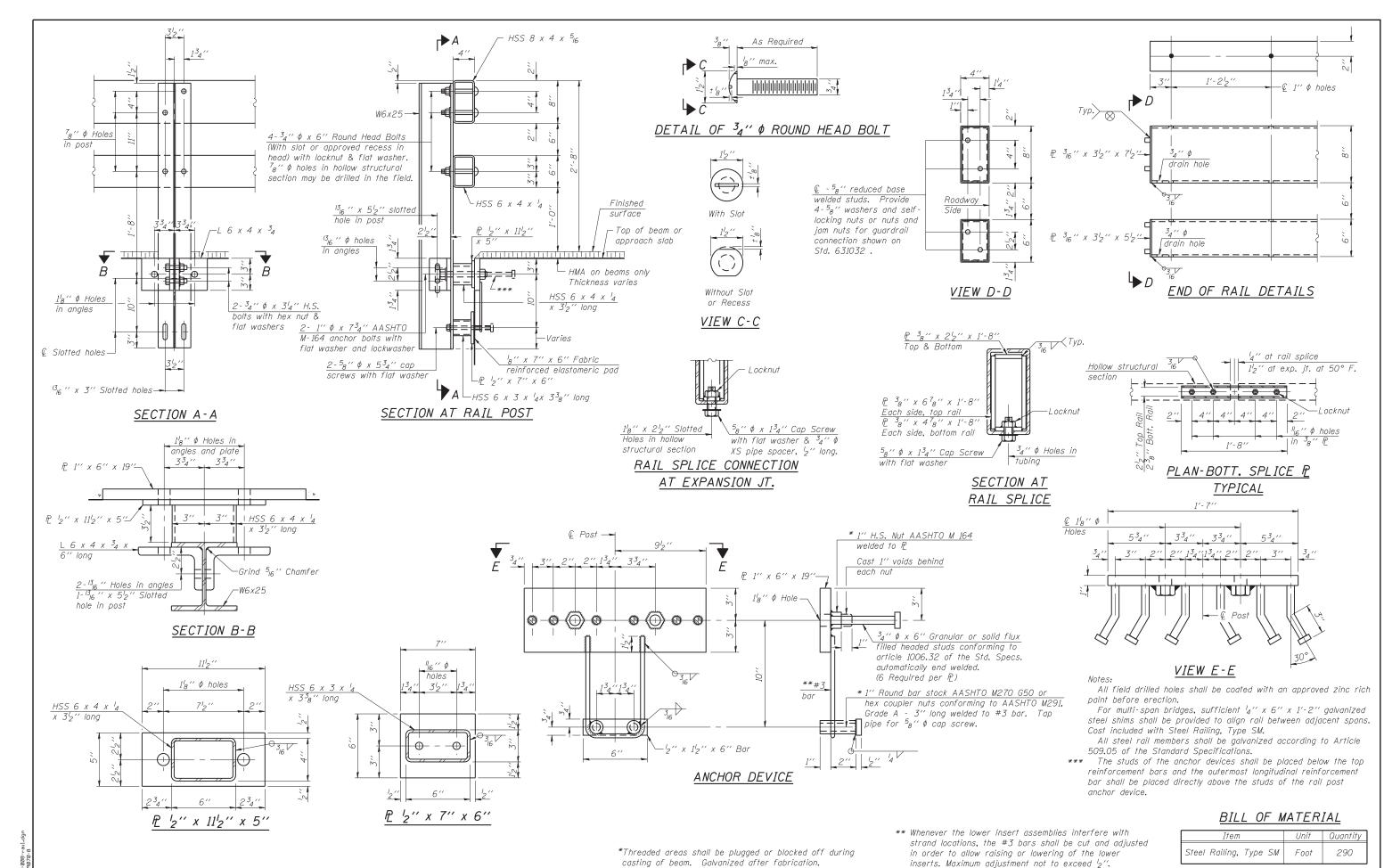
DA L	
Coombe-Bloxdorf P.C.	ι
-CIVIL ENGINEERS-	
-STRUCTURAL ENGINEERS- -LAND SURVEYORS-	F
sign Firm License No. 184-002703	F

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		CHECKED	-	RKM/CME	REVISED	-
	PLOT SCALE = 0.1667 ' / IN.	DRAWN	-	MML	REVISED	-
3	PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED	-

BRID	GE A	PPR	0A	CH	SLAB	DET	AILS
	STRU	ICTU	RE	NO	. 023–	-0018	
	SHEET	NO.	7	OF	21 SH	FETS	

(Sheet 2 of 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
836	117BR-1	EDGAR	48	21			
		CONTRACT	NO. 7	0607			
ILLINOIS FED. AID PROJECT							



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DESIGNED -GJB REVISED USER NAME = _MML. CHECKED RKM/CME REVISED DRAWN MML REVISED CHECKED REVISED MCB

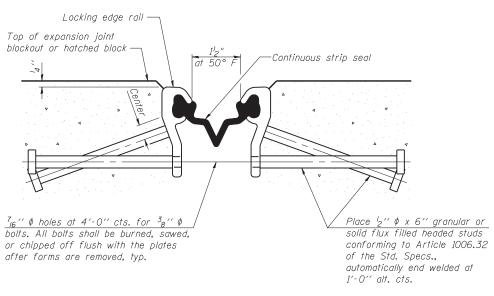
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE **STRUCTURE NO. 023-0018**

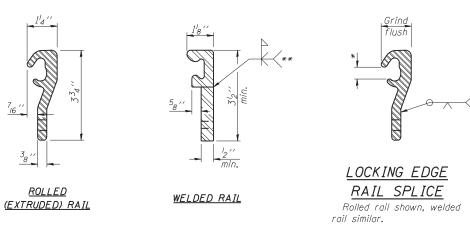
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
117BR-1	EDGAR	48	22
	CONTRACT	NO. 7	0607

ILLINOIS FED. AID PROJECT

836 SHEET NO. 8 OF 21 SHEETS



SECTION THRU STRIP SEAL JOINT



LOCKING EDGE RAIL

- * Omit weld at seal opening.
- ** Back gouge not required if complete joint penetration is verified by mock-up.

Notes

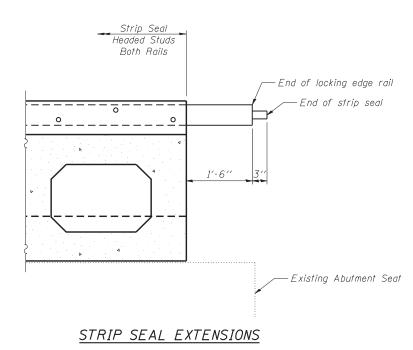
The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

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.
All steel components shall be galvanized after fabrication according to
Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3 l6 $^{\prime\prime}$, sealed with a suitable sealant



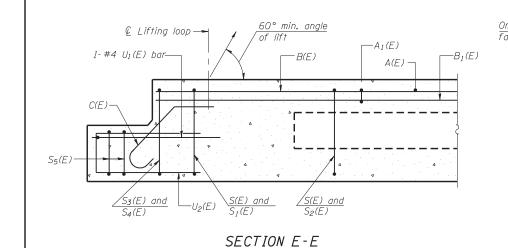
BILL OF MATERIAL

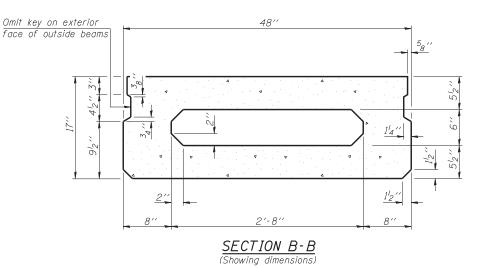
-	Item	Unit	Total
	Preformed Joint Strip Seal	Foot	73

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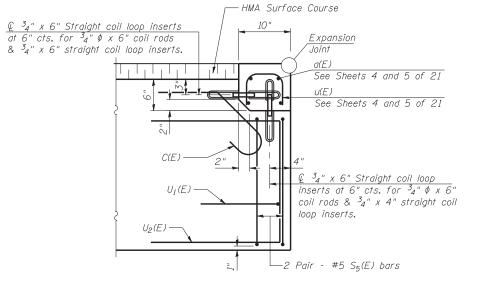
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	CHECKED	-	RKM/CME	REVISED -	
PLOT SCALE = 0.1667 '/ IN.	DRAWN	-	MML	REVISED -	
PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED -	

PREFORMED JOINT STRIP SEAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 023-0018		836 117BR-1 EDGA		48	23
			CONTRACT	NO. 7	'0607
SHEET NO. 9 OF 21 SHEETS		ILLINOIS FED. AI	D PROJECT		

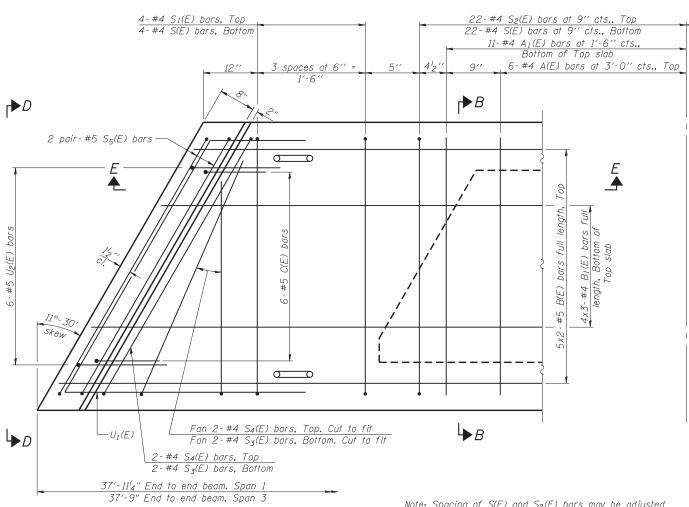




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END OF BEAM (EXP. END) (Dimensions are at Rt. L's)



PLAN VIEW (Showing Expansion End of Beam)

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

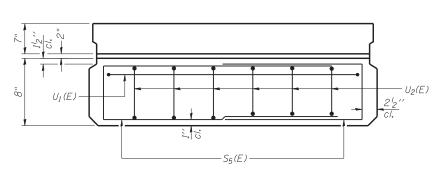
> MINIMUM BAR LAP #4 bar = 2'-0'' #5 bar = 2'-6"

A1(E) 8 B,(E) S₂(E) — 2 strands S(E)-— 10 strands — 8 strands 9 spa. @ 2'' cts.

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 D-D

BAR LIST ONE BEAM ONLY

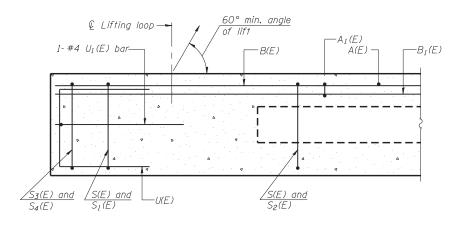
(1 of information only)				
Bar	No.	Size	Length	Shape
A(E)	11	#4	3'-7''	
A1(E)	22	#4	3'-10''	}
B(E)	10	#5	20'-1''	_
$B_1(E)$	12	#4	13'-10''	
C(E)	12	#5	3'-8''	7
S(E)	52	#4	6'-9''	
S ₁ (E)	8	#4	5′-3′′	
$S_2(E)$	44	#4	5′-6′′	[
S3(E)	8	#4	4'-6''	7
S4(E)	8	#4	3'-9''	
S ₅ (E)	8	#4	6'-62"	
$U_1(E)$	2	#4	6'-10''	
U ₂ (E)	12	#5	3'-8''	П

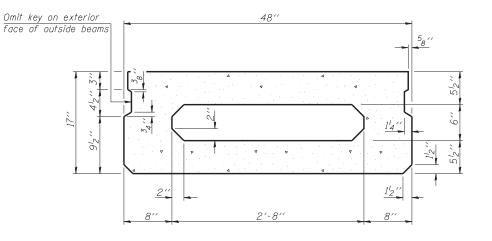
Note: See sheet 12 of 21 for additional details and Bill of Material.

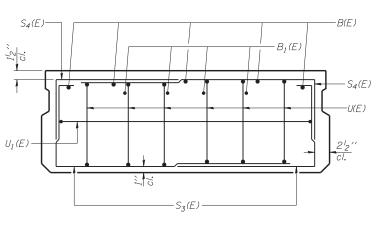
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UD	-CIVIL ENGINEERS-	
74	-STRUCTURAL ENGINEERS-	
	-LAND SURVEYORS-	
Dagian	irm License No 184-002703	

	USER NAME = _MML_	DESIGNED	-	GJB	REVISED	-
		CHECKED	-	RKM/CME	REVISED	-
	PLOT SCALE = 0.1667 ' / IN.	DRAWN	-	MML	REVISED	-
3	PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED	-

17" x 48" PPC DECK BEAM — SPANS 1 & 3 Structure no. 023—0018		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		117BR-1	EDGAR	48	24
			CONTRACT	NO. 7	0607
SHEET NO. 10 OF 21 SHEETS		THE INDICATED AT	D DDO IECT		



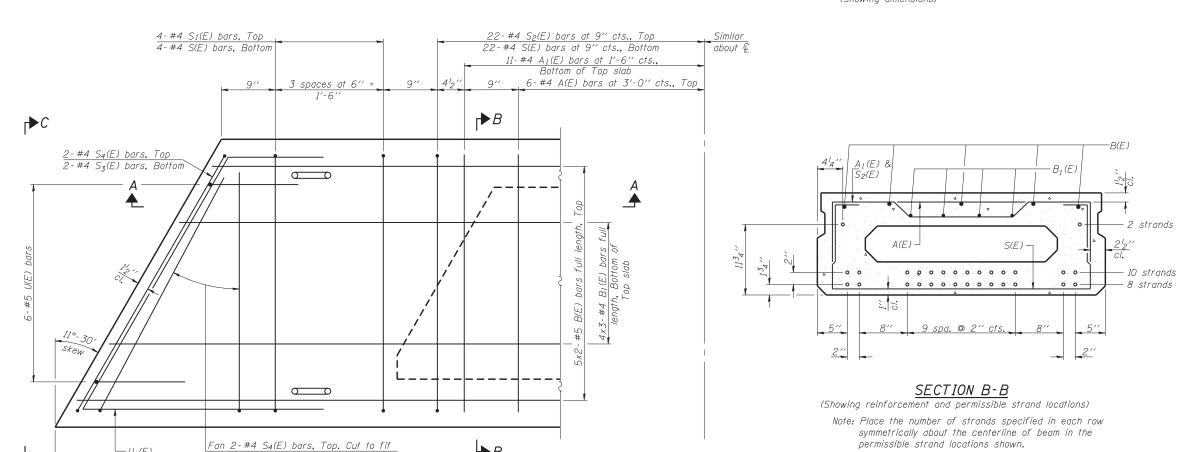




VIEW C-C

SECTION A-A

<u>SECTION B-B</u> (Showing dimensions)



PLAN VIEW Showing fixed end of beam

Fan 2-#4 S₃(E) bars, Bottom. Cut to fit

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

 $\blacktriangleright B$

MINIMUM BAR LAP

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

BAR LIST ONE BEAM ONLY (For information only)

in or minormanion only,				
Bar	No.	Size	Length	Shape
A(E)	11	#4	3'-7''	
A1(E)	22	#4	3′-10′′	~-
B(E)	10	#5	20'-1''	_
$B_1(E)$	12	#4	13′-10′′	_
S(E)	52	#4	6′-9′′	
S ₁ (E)	8	#4	5′-3′′	
$S_2(E)$	44	#4	5′-6′′	
S3(E)	8	#4	4'-6''	
S4(E)	8	#4	3′-9′′	
U(E)	12	#5	3′-8′′	
U1(F)	2	#4	6'-10''	

Note: See sheet 12 of 21 for additional details and Bill of Material.

PD-1748-L

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7 - 1 - 10

 $U_1(E)$

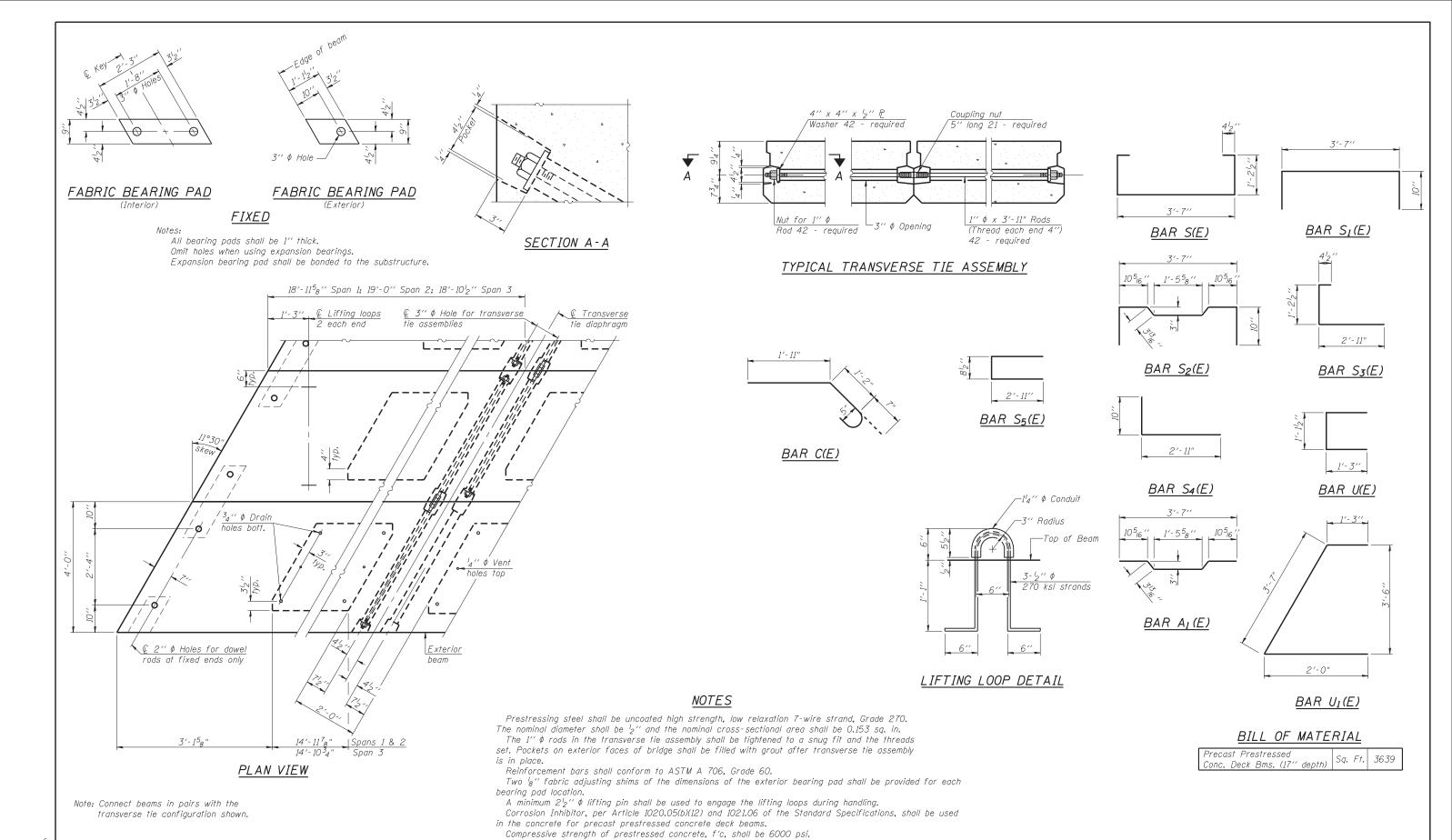
38'-0" End to end beam, Span 2

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USER NAME = _MML_	DESIGNED	-	GJB	REVISED -
	CHECKED	-	RKM/CME	REVISED -
PLOT SCALE = 0.1667 '/ IN.	DRAWN	-	MML	REVISED -
PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED -

17" x	48" PPC	DECK	BEAM	- SPAN	2	
STRUCTURE NO. 023-0018						
	SHEET	NO. 11	OF 21	SHEETS		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
836	117BR-1	EDGAR	48	25		
CONTRACT NO. 7060						
ILLINOIS FED. AID PROJECT						



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USER NAME = _MML_	DESIGNED - C	SJB	REVISED	-
	CHECKED - R	RKM/CME	REVISED	-
PLOT SCALE = 0.1667 ' / IN.	DRAWN - N	MML	REVISED	-
PLOT DATE = 9/19/2014	CHECKED - N	MCB	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

See Sheet 3 of 21 for inserts to be cast into beam adjacent to Temporary Concrete Barrier.

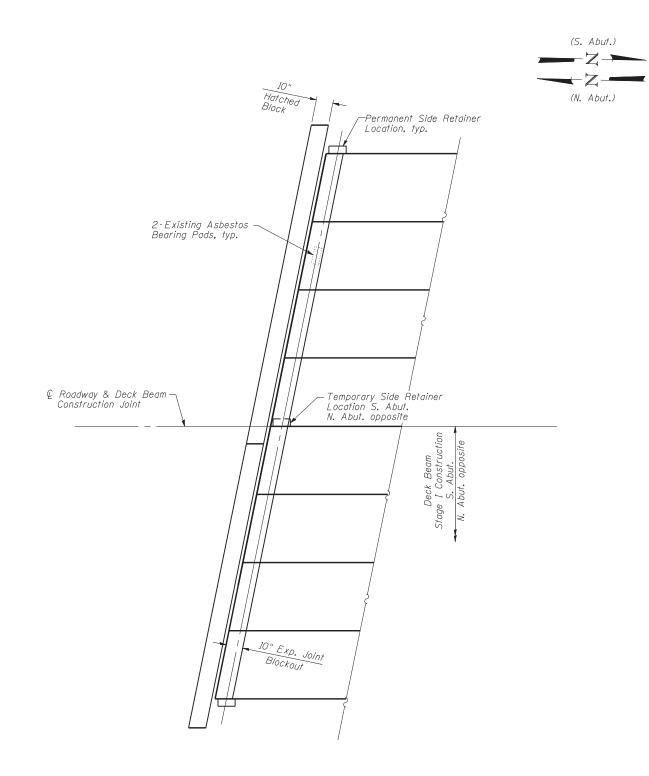
See Sheet 2 of 21 for locations of semicircular recesses to be cast into beam at Stage Construction Line.

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

17" x 48" PPC DECK BEAM DETAILS		SECTION
STRUCTURE NO. 023-0018		117BR-1
0111001011L 140. 023-0010		
SUFFI NO. 12 OF 21 SUFFIS	—	

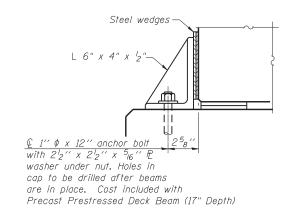
TOTAL SHEET NO. 48 26 COUNTY EDGAR CONTRACT NO. 70607

PD-1748-LD

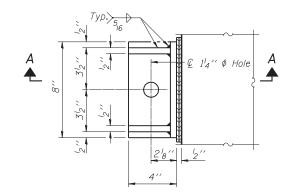


PARTIAL PLAN AT ABUTMENTS

(Showing Side Retainer Locations)



SECTION A-A



<u>PLAN</u>

The temporary side retainer shall be removed after Stage I expansion joint blockout is poured and cured. The anchor bolt at the temporary side retainer location shall be burned flush with the existing abutments surface and the surface shall be ground smooth and sealed with epoxy. Cost of temporary side retainer removal is included in Precast Prestressed Concrete Deck Beams (17" Depth).

The side retainers and steel wedges shall have a tight fit against the side of the deck beams and shall be in place prior to grouting the shear keys in each stage.

Cost of anchor bolts, retainer and accessories including installation are included with Precast Prestressed Concrete Deck Beams (17" Depth).

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.

Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.

After the Stage II expansion joint blockouts are poured and cured, the steel wedges at the permanent side retainer locations shall be removed.

BILL OF MATERIAL

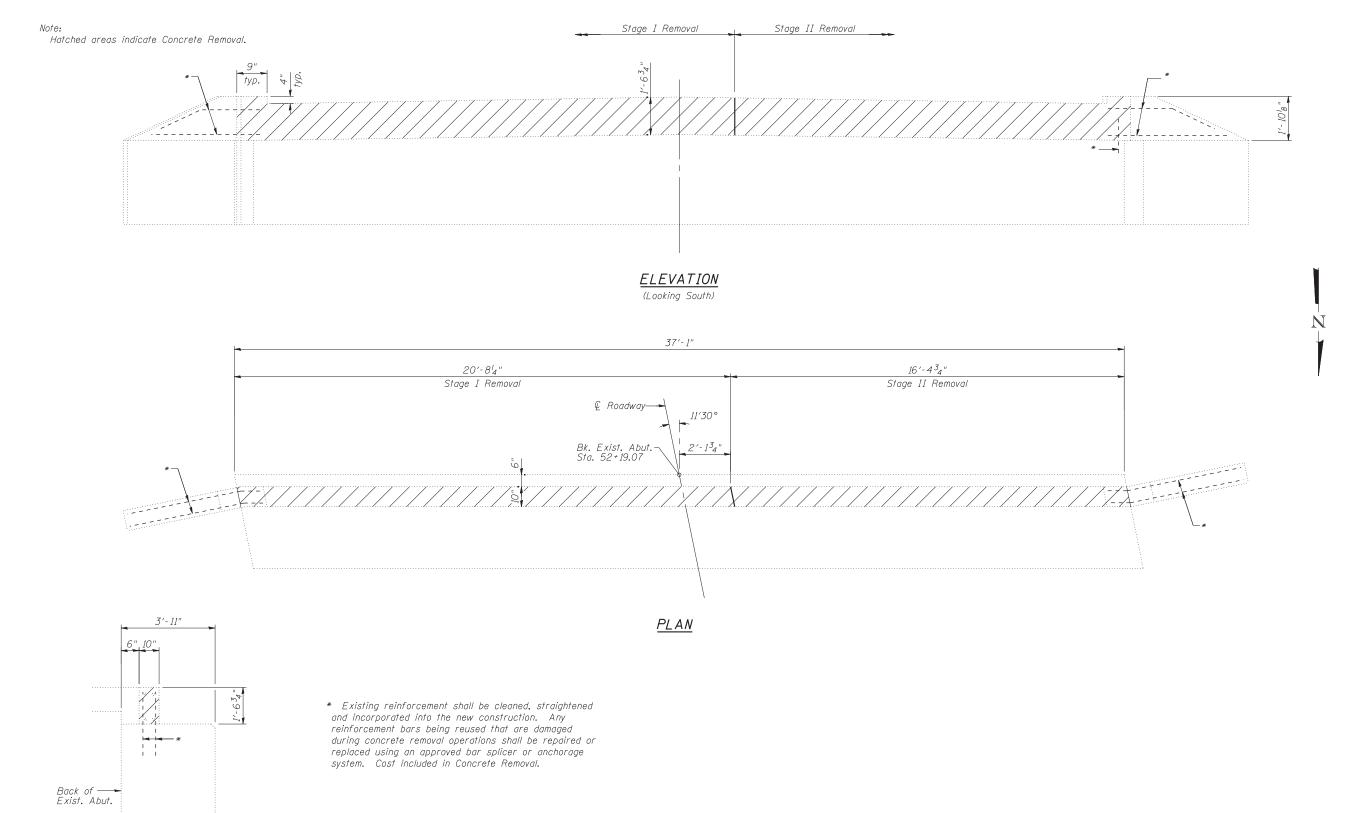
Item	Unit	Total
Asbestos Bearing Pad Removal	Each	48

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USER NAME = _MML_	DESIGNED - GJB	REVISED -
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PLOT DATE = 9/19/2014	CHECKED - MCB	REVISED -

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STRU	JCTU	RE	NO	. 02	3-0018	
CHEET	- NO	17	OΓ	21	CHEETC	_

.A.P.	SECTION		COUNTY	TOTAL SHEETS	SHE
836	117BR-1		EDGAR	48	27
			CONTRACT	NO. 7	060
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BILL OF MATERIAL

1/EM	UN	11	101AL
Concrete Removal	Cu.	Yd.	1.8

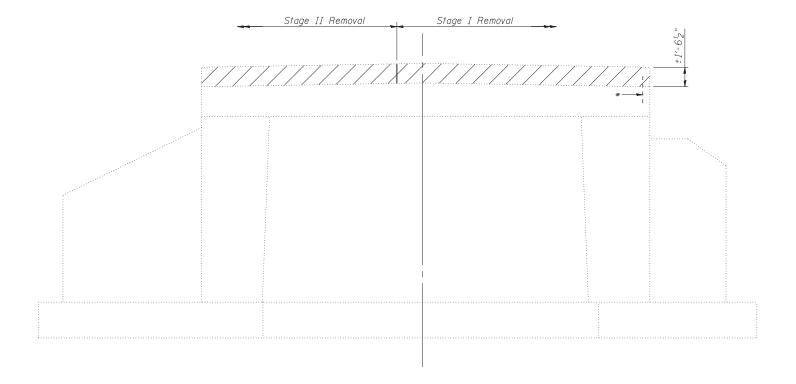
SECTION THRU SOUTH ABUTMENT

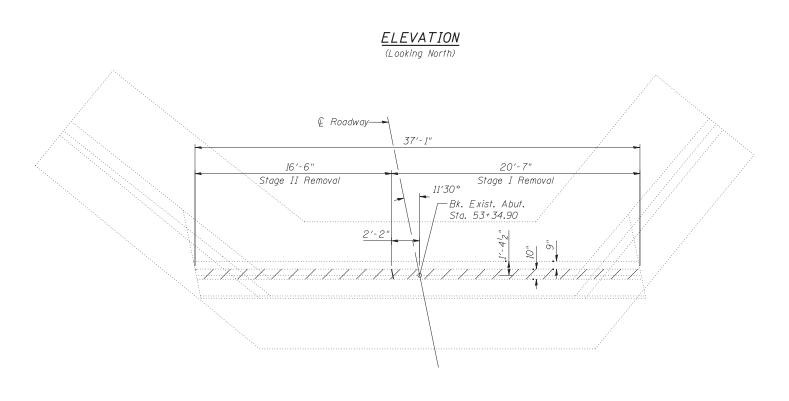
(at Right L's)

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-STRUCTURAL ENGINEERS-	Γ
Design Firm License No. 184-002703	Γ

	USER NAME = _MML_	DESIGNED	-	GJB	REVISED	-
		CHECKED	-	RKM/CME	REVISED	-
	PLOT SCALE = 4:0 ':' / IN.	DRAWN	-	MML	REVISED	-
3	PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED	-

SOUTH ABUTMENT CONCRETE REMOVAL DETAILS	F.A.P. RTE.	SECTION
STRUCTURE NO. 023-0018	836	117BR-1
	1	
SHEET NO. 14 OF 21 SHEETS		THE INOTE OF





PLAN

SECTION THRU NORTH ABUTMENT

(at Right L's)

* Existing reinforcement 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

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	1.8

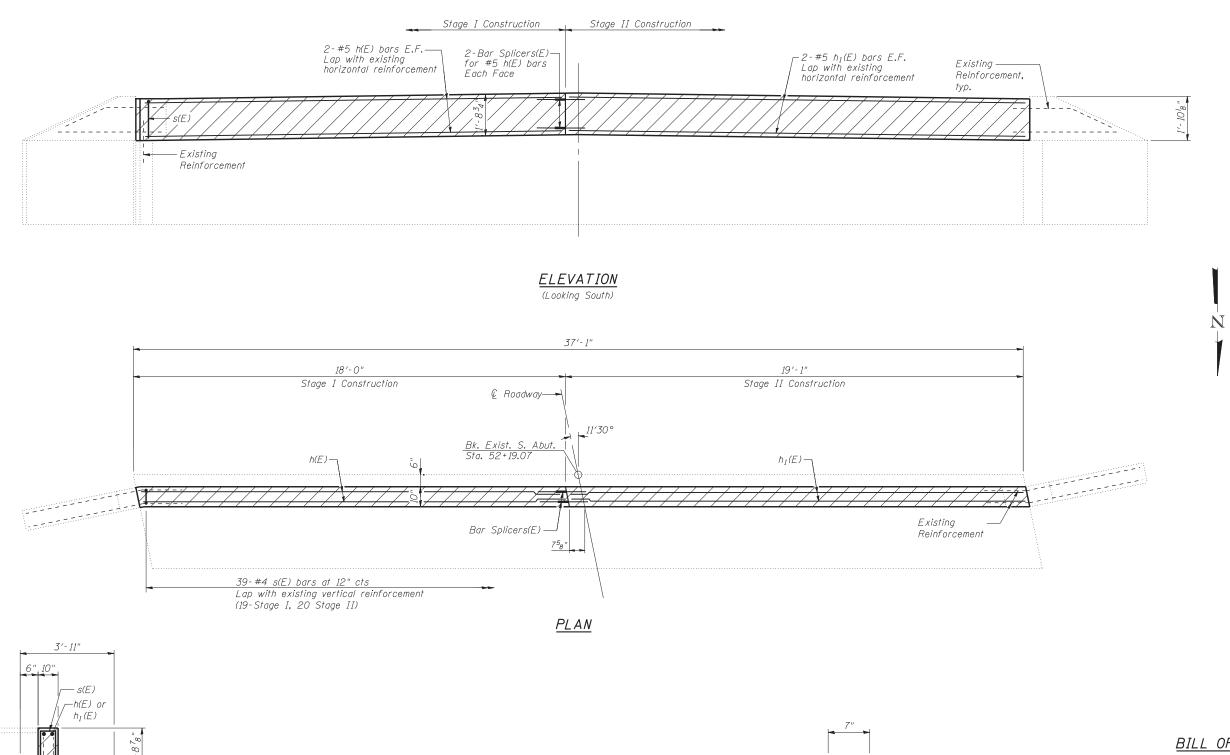
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-structural Engineers
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USER NAME = _MML_	DESIGNED	-	GJB	REVISED -
	CHECKED	-	RKM/CME	REVISED -
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PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED -

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NORTH			ETE REMOVAL DETAILS D. 023–0018	
	SHEET NO.	15 OF	21 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
836	117BR-1	EDGAR	48	29
		CONTRACT	NO. 7	0607
	ILLINOIS FED. A	D PROJECT		



SECTION THRU SOUTH ABUTMENT (at Right L's)

<u>BILL OF MATERIAL</u> SOUTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	4	#5	17′-8"	
h1(E)	4	#5	18′-9"	
s(E)	39	#4	3'-3"	
Conc. S	Superstr	ucture	Cu. Yd.	2.0
Reinforcement Bars, Epoxy Coated			Pound	240

Hatched areas shall be poured after beams have been erected and joints grouted.

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

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USER NAME = _MML_	DESIGNED -	GJB	REVISED -	
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PLOT DATE = 9/19/2014	CHECKED -	MCB	REVISED -	
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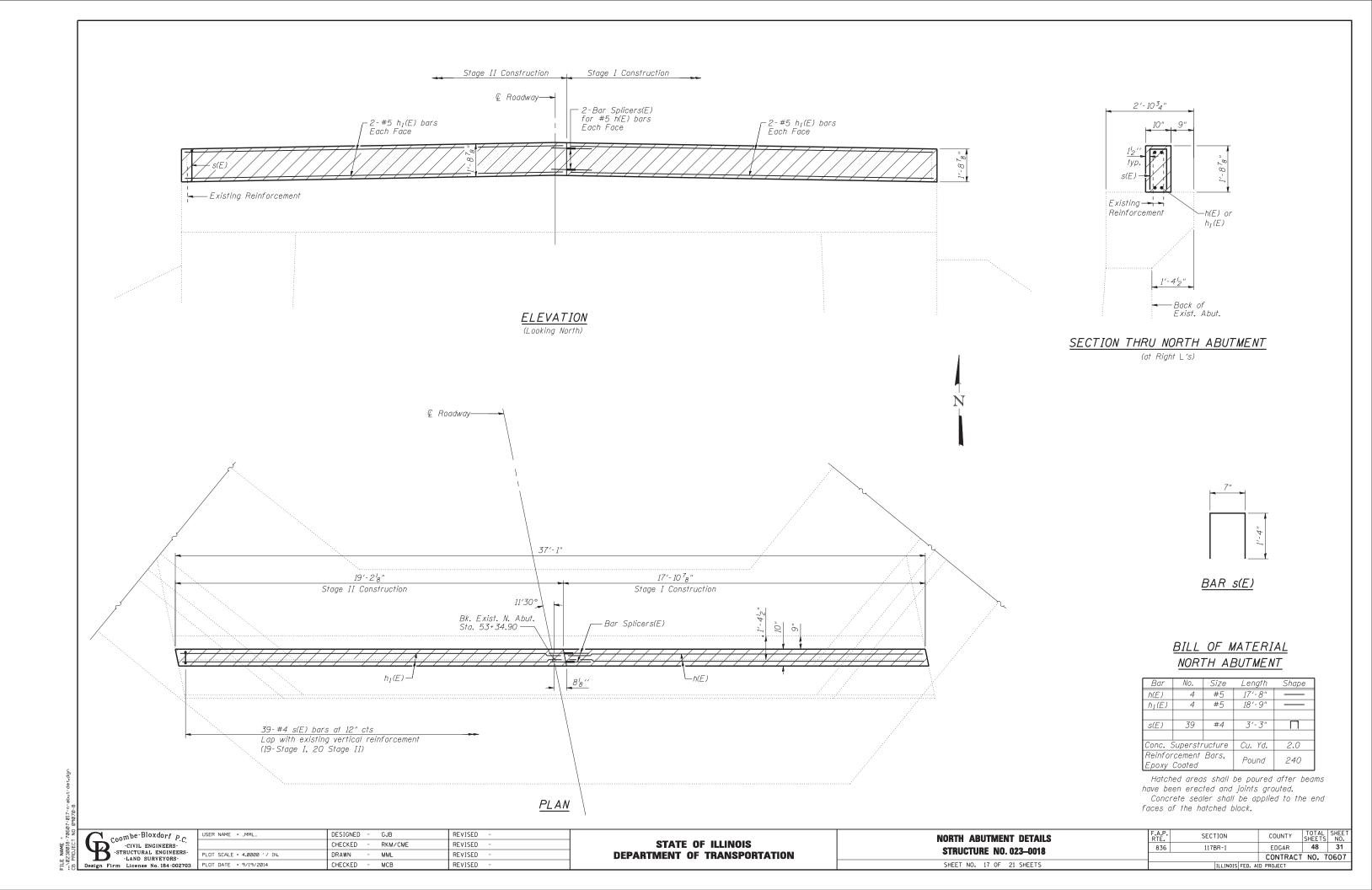
-Existing Reinforcement

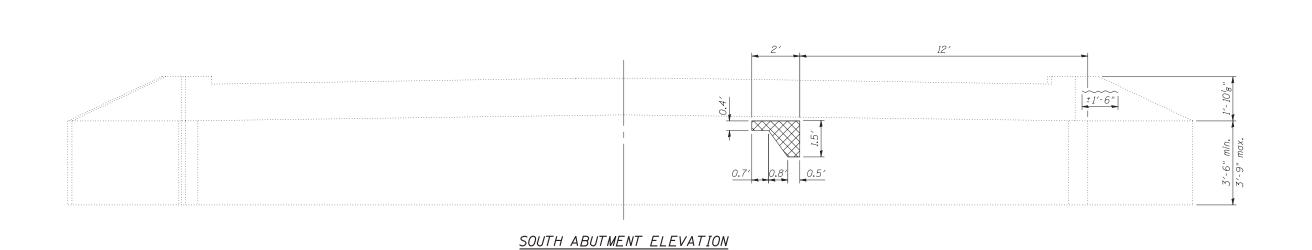
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DEPARTMENT	OF	TRANSPORTATION

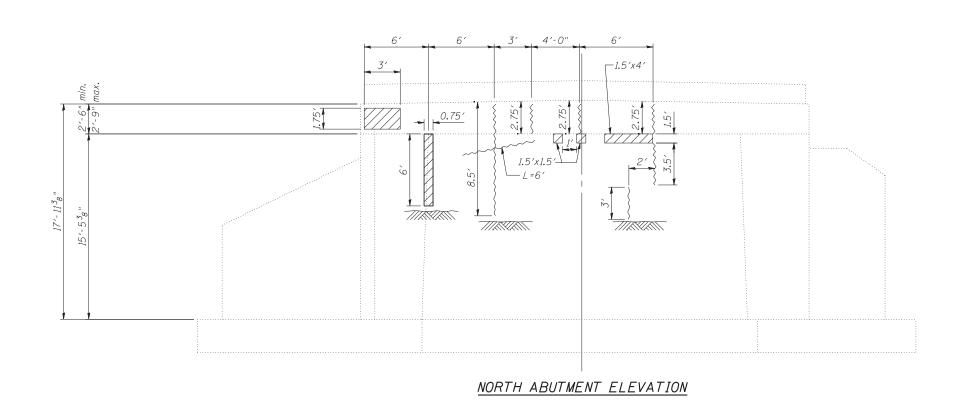
SOUTH ABUTMENT DETAILS		SECTIO
STRUCTURE NO. 023-0018		117BR
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SHEET NO. 16 OF 21 SHEETS		TI.

BAR s(E)

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
836	117BR-1		EDGAR	48	30
			CONTRACT	NO. 7	0607
	ILLINOIS FED. A	QI/	PROJECT		







<u>LEGEND</u>

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

Structural Repair of Concrete (Depth greater than 5")

~~ Epoxy Crack Injection

TWO ABUTMENTS BILL OF MATERIAL

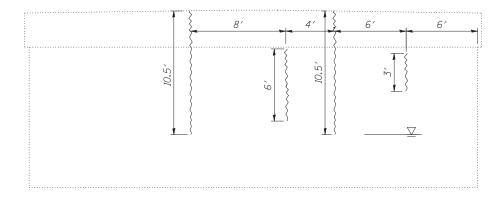
Item	Unit	Total
Epoxy Crack Injection	Foot	31
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	21
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	2

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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
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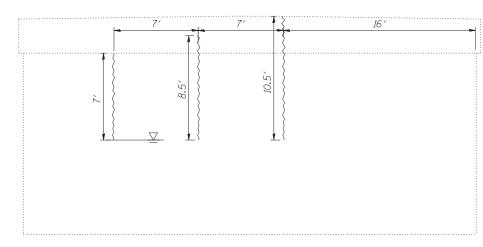
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		CHECKED -	RKM/CME	REVISED -	
	PLOT SCALE = 4.0000 '/ IN.	DRAWN -	MML	REVISED -	
	PLOT DATE = 9/19/2014	CHECKED -	MCB	REVISED -	
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					DETAILS 23-0018	
SHEET	NO.	18	ΩF	21	SHEETS	

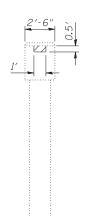
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
836	117BR-1	EDGAR	48	32			
CONTRACT NO. 70607							
ILLINOIS FED. AID PROJECT							

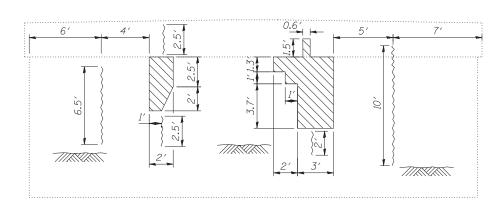


NORTH FACE - PIER 1
Looking South



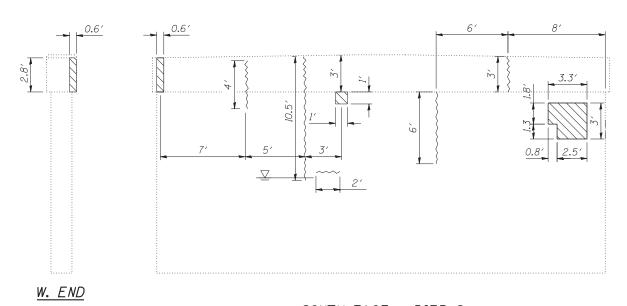
NORTH FACE - PIER 2
Looking South





<u>W. END</u>

SOUTH FACE - PIER 1
Looking North



SOUTH FACE - PIER 2
Looking North

<u>LEGEND</u>

~ Epoxy Crack Injection

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

<u>TWO PIERS</u> BILL OF MATERIAL

Item	Unit	Total
Epoxy Crack Injection	Foot	108
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	42

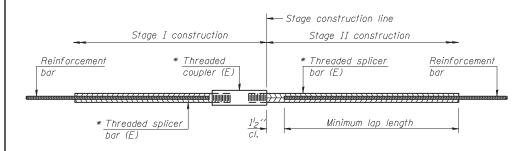
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	USER NAME = _MML_	DESIGNED	-	GJB	REVISED -	
		CHECKED	-	RKM/CME	REVISED -	
	PLOT SCALE = 8.0000 ' / IN.	DRAWN	-	MML	REVISED -	
	PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED -	
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DEPARTMENT OF TRANSPORTATION

PIER	REPAIR	DETAILS	
STRUC	TURE NO	. 023–0018	
SHEET N	0 19 NF	21 SAFFTS	

F.A.P. RTE.	SECTION	T	COUNTY	TOTAL SHEETS	SHEET NO.
836	117BR-1	Τ	EDGAR	48	33
		Τ	CONTRACT	NO. 7	0607
	ILLINOIS FED. A	AID	PROJECT		



STANDARD BAR SPLICER ASSEMBLY

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

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

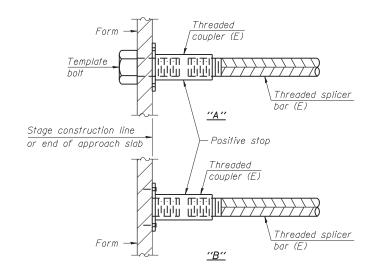
Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1^{l_2} " + thread length

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

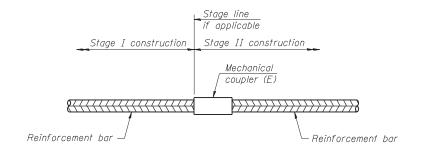
1	Bar	No. assemblies	Table for minimum
Locarion	size	required	lap length
Exp. Jt. Blockout	#4	8	6
Approach Slab, Top	#4	25	4
Approach Slab, Bottom	#4	46	3
Approach Slab, Footing	#5	40	3
Abutments	#5	8	6



INSTALLATION AND SETTING METHODS

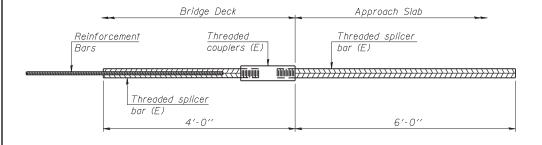
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



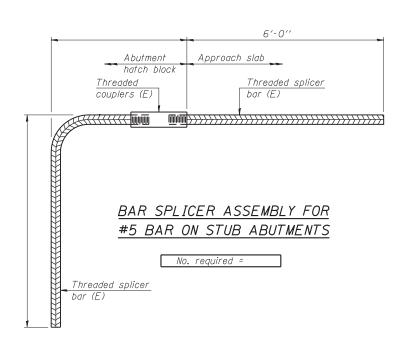
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



<u>NOTES</u>

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

1-27-12

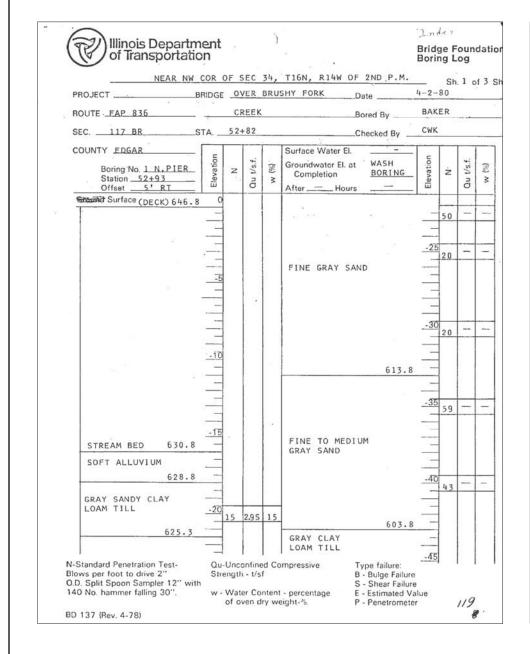
202 :	
Coombe-Bloxdorf P.C	US
-civil engineers-	
-STRUCTURAL ENGINEERS- -LAND SURVEYORS-	PL
Design Firm License No. 184-002703	PL

03	PLOT DATE = 9/19/2014	CHECKED	-	MCB	REVISED		
		0.150450		1400	DELLIGED		
;-	PLOT SCALE = 0.1667 '/ IN.	DRAWN	-	MML	REVISED	-	
•		CHECKED	-	RKM/CME	REVISED	-	
	USER NAME = _MML_	DESIGNED	-	GJB	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3AR	SPLICER	ASSEMBLY STRUC			ECHANICAL . 023–0018	SPLICER	DETAILS	F.A.P RTE. 836
		SHEET	NO. 20	0F	21 SHEETS			

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
836	117BR-1		EDGAR	48	34
			CONTRACT	NO. 7	0607
	ILLINOIS	FED. A	ID PROJECT		



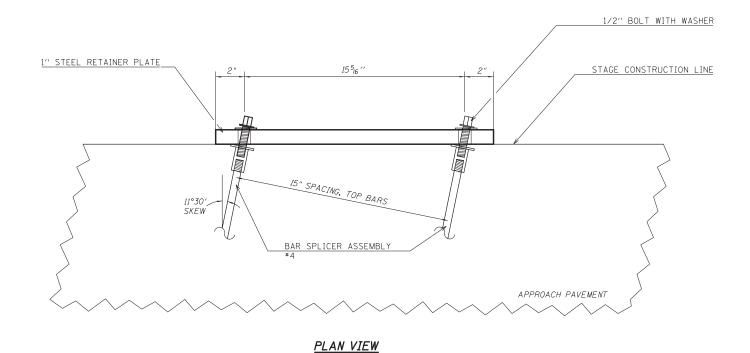
FORM NO. 8. D. 137 REV. 8-48	OGE	FC	UNE	PATION	BORING	LOG	Sh. 2	of	3
FAP 836 SEC. 117 BR EDGAR CO. BORING NO. 1 CONTD.	Elevation	z	Qu t/s.f.	(%)			Elevation	z	Qu t/a.f.
GRAY CLAY LOAM TILL	-45 - - -	48	10.9NF	9.5	77				
596.3	-50	60	NF 10.9+	11			- <u>15</u>		
	-55						- <u>75</u>		
	-55 -60 -65						-85		
	- <u>60</u>						- <u>85</u> - - -		
	-65						- <u>2</u> ō		
	- <u>7</u> 0					Œ	-95 -//	9	

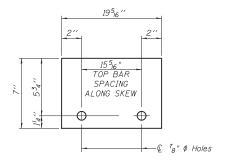
Illinois Departme of Transportation	n				*				11
PROJECTBR	RIDGE	-0'	VER	BRU	SHY FORKDate	4-2-		. 3 (0
ROUTE - FAP 836						BAKER) }		
SEC. 117 BR ST	Δ		524	-82		CWK			
COUNTY EDGAR [1							
Boring No. 2 S-ABT Station 52+08 Offset 14' RT	Elevation	z	Qu t/s.f.	(%) w	Groundwater El. at Completion After — Hours	Elevation	ż	Qu t/s.f.	
Ground Surface 646.4	0				GRAY BROWN SANDY				
	2.7			į,	CLAY LOAM TILL		35	4.5 S	
	-				622.	4 -			
MIXED BLACK & BROWN						25	10	_	
CLAY LOAM EMBANKMENT	_			1 8	197		12		
	-5	7	1.08	17					
639.9	_								
MIXED BLACK CLAY LOAM EMBANKMENT						-			
		8	1.6B	24	FINE GRAY SAND	-30	27	_	
637.4	- 12				€				
GRAY BROWN MOTTLED CLAY LOAM	:-10	5	0.6B	30					
634.9									
GRAY CLAY		5	1.08	15		25			
LOAM TILL 632.4	-	Ť		1		-35	22		
	-15			-	gyatos gen	=			
	-	15	4.3B	12	608.	9			
GRAY BROWN SANDY CLAY LOAM TILL						_			
CEMT LUMP TILE	_	Sh. 3 CREEK Bored By BAKER 52+82 Checked By CWK Surface Water El. Completion BORING After — Hours — GRAY BROWN SANDY CLAY LOAM TILL — 35 4.5 7 1.0B 17 — 5 0.6B 30 — 5 1.0B 15	_						
	_				GRAT SAND		,,		1
8	-20	18	4.55	14					
1	_			<u> </u>		4			
3	-				CLAY LOAM TILL	3-			
N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".	Str	ength Wat	er Co	f	mpressive Type failure\ B - Bulge Failure\ S - Shear Faili - percentage E - Estimated	ire ure Value	100 @9"	10+	

coombe-Bloxdorf P.C
-civil engineers-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

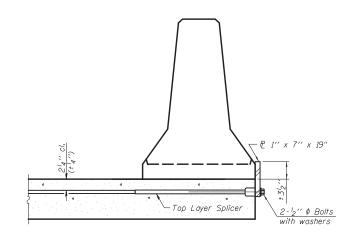
DESIGNED - GJ	REVISED -	
CHECKED - RK	REVISED -	
DRAWN - MA	REVISED -	
CHECKED - MC	REVISED -	
CHECKED - MC	REVISED -	_

BORING LOGS Structure no. 023-0018		SECTION	COUNTY	TOTAL	
		117BR-1	EDGAR	48	35
		•	CONTRACT	NO.	70607
SHEET NO. 21 OF 21 SHEETS		ILLINOIS FED. A	ID PROJECT		





STEEL RETAINER & 1" x 7" x 1956"



<u>SECTION THRU PROPOSED</u> <u>APPROACH PAVEMENT</u>

<u>NOTES</u>

Connect one (1) 1'' x 7'' x 19^5_6 " steel ℓ to the top layer of couplers with 2- $\frac{1}{2}$ " ϕ bolts screwed to coupler at approximate ℓ of each barrier panel.

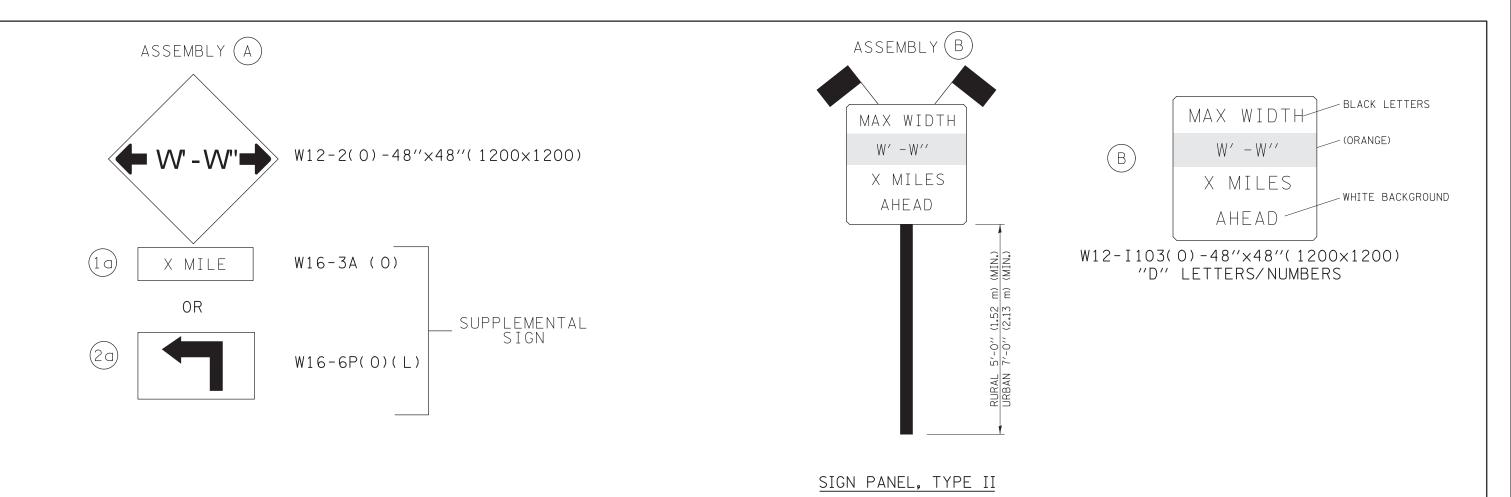
Cost of retainer assembly is included with Temporary Concrete Barrier. The plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\$MODELNAME\$	PLOT DATE = 9/5/2015	DATE -	REVISED -	
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	06 0RXXXXX Data\Đesign\D570607-sht-details.d	REVISED -	STATI
FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED -	

STATE	E OF	ILLINOIS	
DEPARTMENT	0F	TRANSPORTATION	

SCALE:

TEMPORARY CONCRETE BARRIER PINNING ALONG PROPOSED APPROACH PAVEMENT					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
					836	117BR-1	EDGAR	48	36	
							CONTRACT	NO. 7	0607	
	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



W'-W''=11'-0'' FOR STAGE 1 and 12'-0" FOR STAGE 2

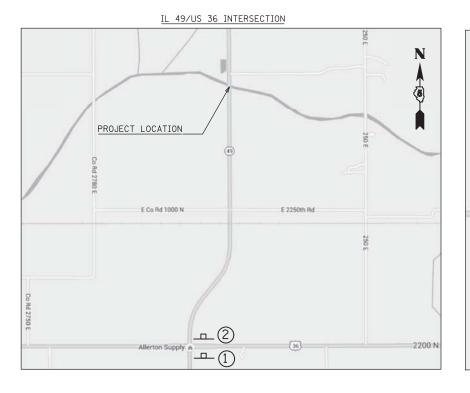
GENERAL NOTES

- 1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR. SIGN ASSEMBLIES (A) AND (B) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. POSTING REQUIREMENTS FOR BOTH ARE SHOWN ON SIGN ASSEMBLY (B).
- 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 (0) SHALL BE FLUORESCENT ORANGE.
- 7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

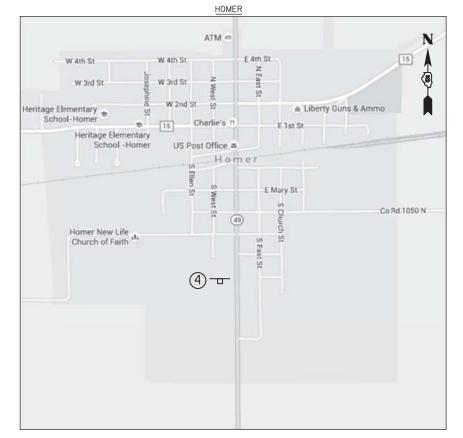
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT	5	DETAIL	NO.	X7200201

FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED - 03/11 -KJT						ECTION COUNTY	TOTA	L SHEET
pw:\\IL084EBIDINTEG.:lll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	DE DR XIXAN Data\Besign\D570607-sht-details.d	00,00	STATE OF ILLINOIS	WIDTI	H RESTRICTION SIGNING		836 1	17BR-1 EDGAR	48	37
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED - 10/08 - KJT	DEPARTMENT OF TRANSPORTATION					CONTRA	ACT NO.	70607
	PLOT DATE = 9/29/2015	DATE -	REVISED - 7/09 - KJT		SCALE: SHEET NO.	OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		









LOCATION NO.	LOCATION DESCRIPTION	SIGN ASSEMBLY	"X MILE"	SUPPLEMENTAL SIGN
1	ERECT BY JUNCTION US 36 SIGNS	В	1 MILE	-
2	ERECT BY NORTH IL 49 SIGN	А	1 MILE	1 a
3	ERECT BY SOUTH IL 49 SIGN	А	6 MILE	1 a
4	ERECT BESIDE ALLERTON AND CASEY SIGN JUST SOUTH OF HOMER	А	16 MILE	1 a
5	ERECT BY SOUTH IL 49 SIGN	А	21 MILE	1 a
6	ERECT BY STOP AHEAD SIGN	А	-	2a
7	ERECT BY STOP AHEAD SIGN	В	21 MILE	-

COUNTY TOTAL SHEET NO.

EDGAR 48 38

CONTRACT NO. 70607

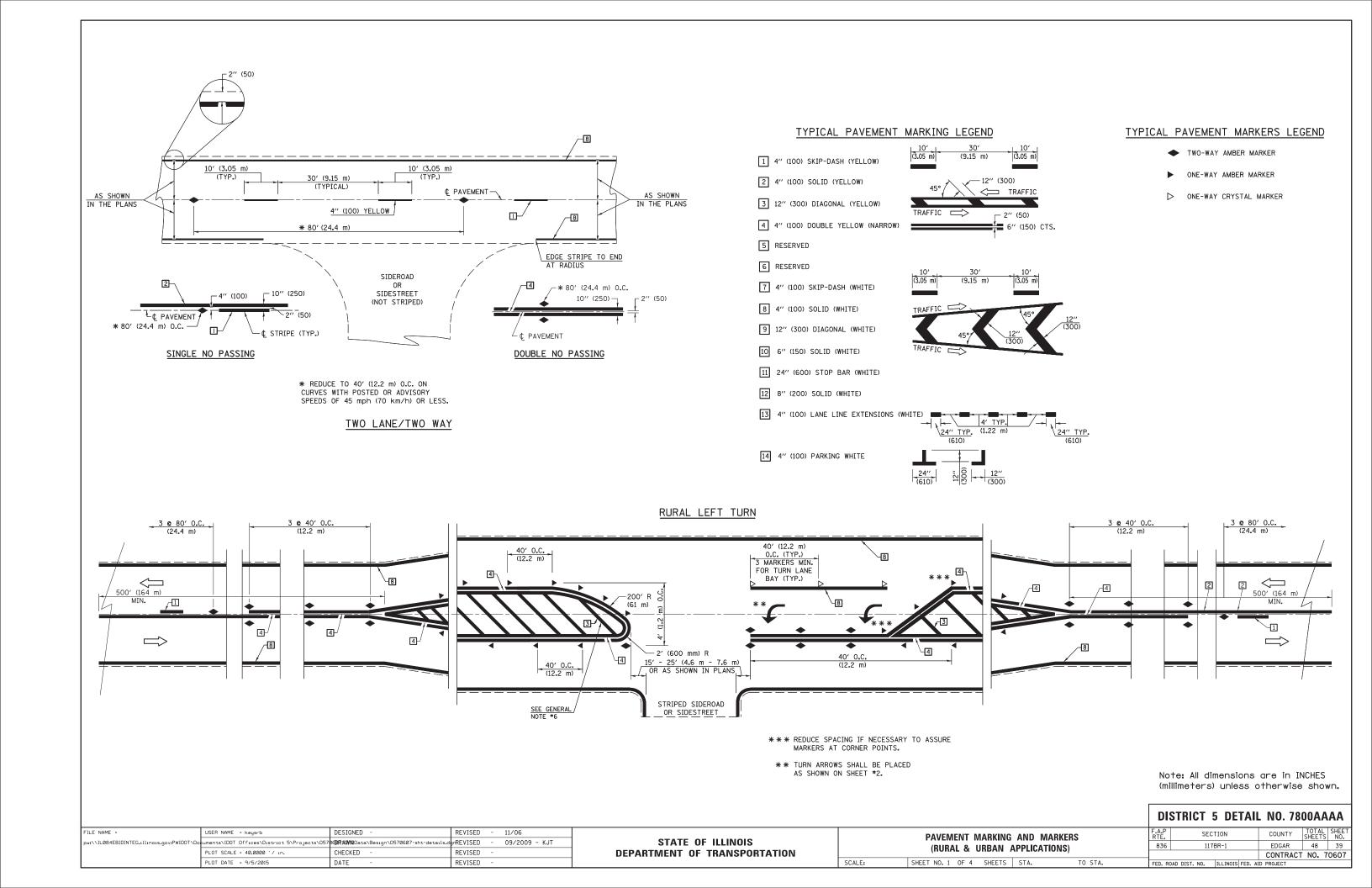
SECTION

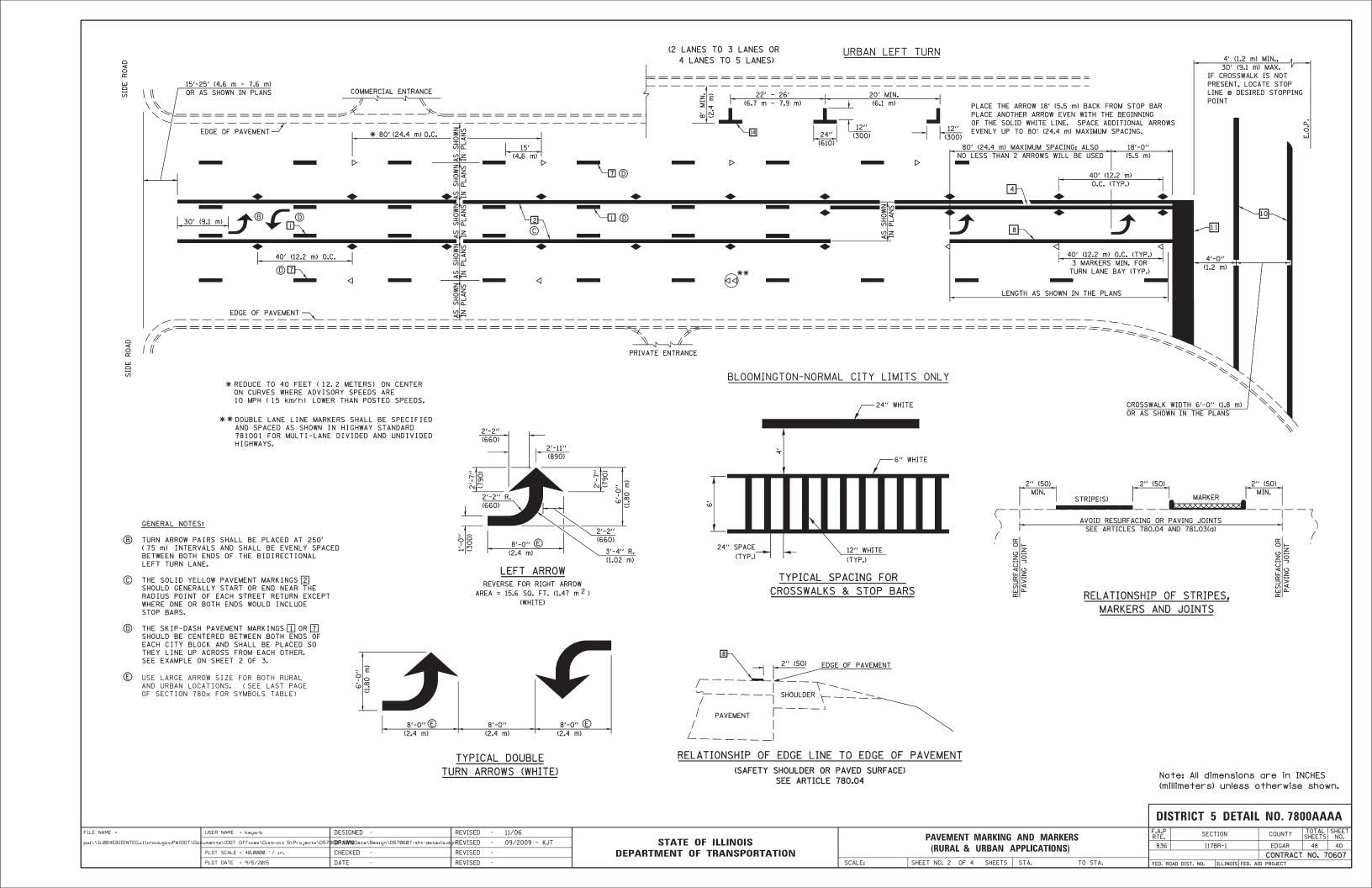
117BR-1

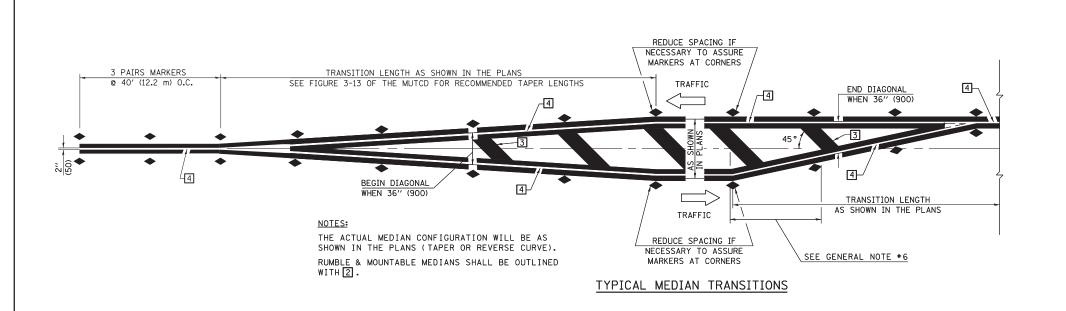
ILLINOIS FED. AID PROJECT

836

FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED -								
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	06 0RXXXXX Data\Đesign\D570607-sht-details.d	erREVISED -	STATE OF ILLINOIS	WIDTH RESTRICTION SIGNING				۳		
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							Н
\$MODELNAME\$	PLOT DATE = 9/29/2015	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS	STA.	TO STA.	上

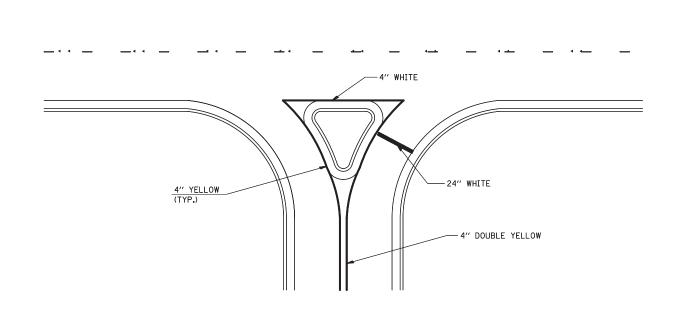




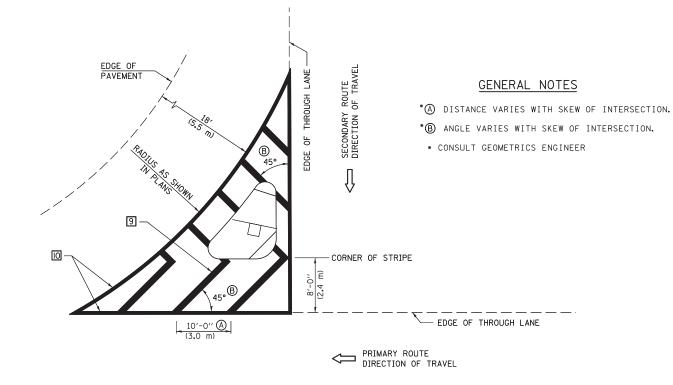


GENERAL NOTES

- 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.
- 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.

DIS	TRICT	5	DETAIL	NO.	780	OAA	AA
E A D						TOTAL	CHEET

FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED - 11/06			PAVEMENT MARKING AN	ND MARKERS	F.A.P SEC	CTION	COUNTY	TOTAL S	SHEET
pw:\\IL084EBIDINTEG.:111:no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D57	DEDRAMANData\Besign\D570607-sht-details.c	REVISED - 09/2009 - KJT	STATE OF ILLINOIS				836 11	.7BR-1	EDGAR	48	41
	PLOT SCALE = 40.0000 '/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	(RURAL & URBAN APPLICATIONS)		PLICATIONS)			CONTRACT	NO. 70	607
	PLOT DATE = 9/5/2015	DATE -	REVISED -		SCALE:	SHEET NO. 3 OF 4 SHEETS ST	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID	PROJECT		

APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT. 4 USE TABLE 2C-4 FROM THE MUTCD MANUAL FOR THIS DISTANCE

* Minimum Distance 400' for 55 MPH 250' for 45 MPH 100' for 35 MPH or Less

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

50' (15.2 m)

10' (3.05 m)

NOTES

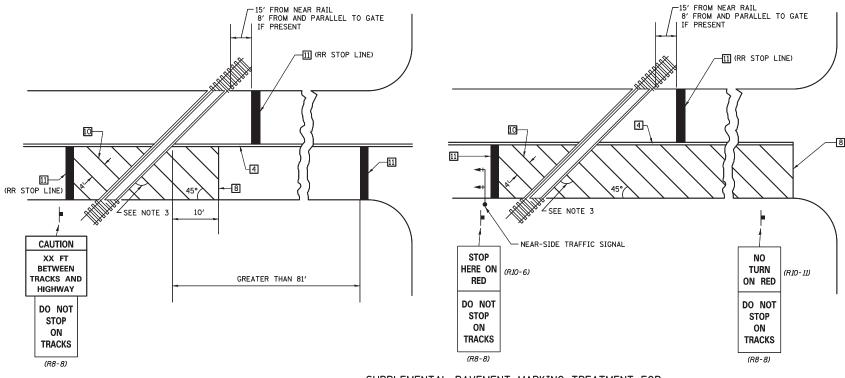
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

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 EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

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.

DISTRICT 5 DETAIL NO. 7800AAAA

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ı		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED	-	
ı		PLOT DATE = 9/5/2015	DATE -	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

(RUR	4L &	URBAN A	APPLIC	MARKERS ATIONS)	
SHEET NO. 4	OF ·	4 SHEETS	STA.	TO	STA.

F.A.P RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
836	117	BR-1		EDGAR	48	42
				CONTRACT	NO. 7	0607
FED RO	ON TRIU ON	TILI TNOTS FED	. ATD	PROJECT		

