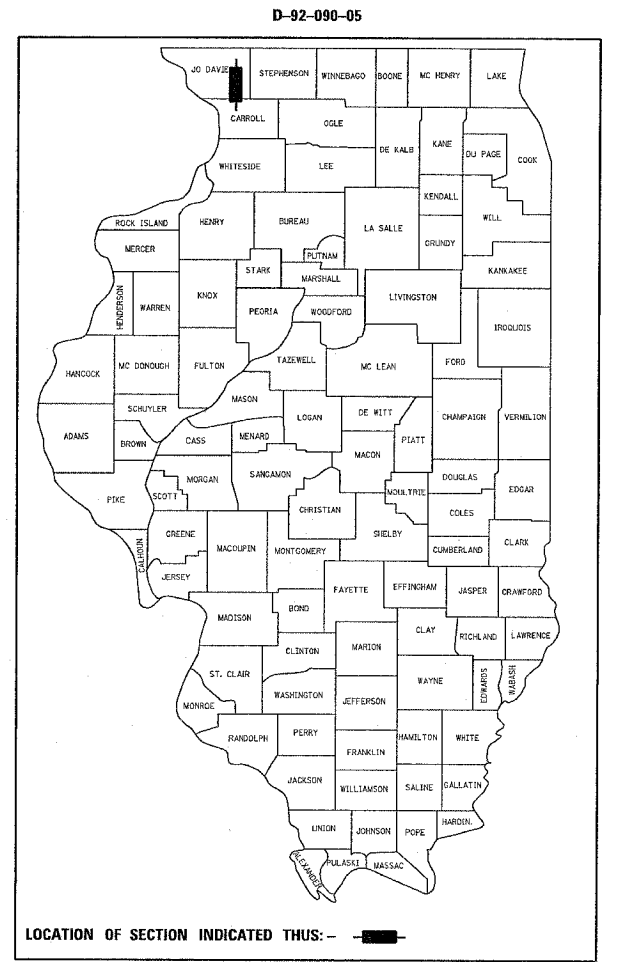


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11BR-8	JODAVIESS	45	1

(10BR-3)D

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

FAP ROUTE 642 (IL 78)  
 SECTION (10BR-3)D & 11BR-8  
 PROJECT  
 JODAVIESS COUNTY  
 C-92-045-06



PLANS ENGINEER  
 ROBERT WAGNER

SQUAD LEADER  
 MIKE YUSEF  
 (815) 284-5343

PROJECT ENGINEER  
 THOMAS HALLA  
 PHONE: (815) 284-5993

INDEX OF SHEETS

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- 2-3 SUMMARY OF QUANTITIES
- 4 GENERAL NOTES
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- 12-13 ROADWAY PLAN SHEETS
- 14-17 STAGING DETAILS
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- 40 DELINEATOR AND POST (37.4)
- 40 WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE 2 (38.4)
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- 40 STOP LINE FOR TEMPORARY SIGNAL (99.4)
- 41-42 TYPICAL PAVEMENT MARKINGS (41.1)
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STATE STANDARDS

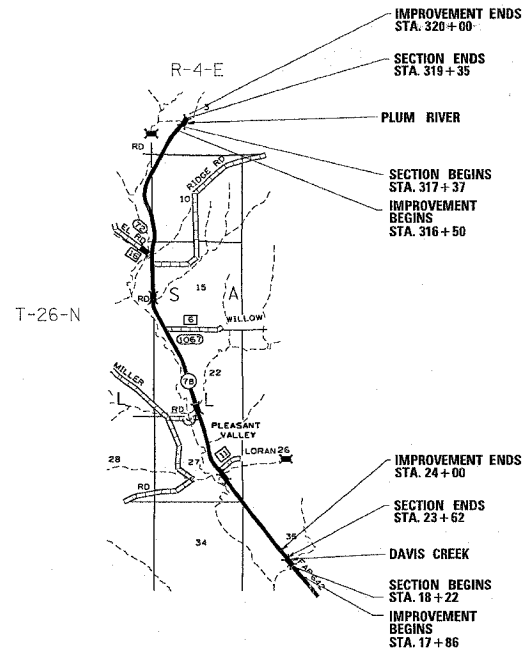
- 001001 AREAS OF REINFORCEMENT REBARS
- 001006 DECIMAL OF AN INCH AND A FOOT
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-06 PAVEMENT JOINTS
- 515001-02 NAME PLATE FOR BRIDGES
- 542401 END SECTION, METAL, FOR PIPE CULVERT
- 630001-05 STEEL PLATE BEAM GUARDRAIL
- 630301-03 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631032-01 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635001 DELINEATORS
- 635006-02 REFLECTOR AND TERMINAL MARKER REPLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 667101 PERMANENT SURVEY MARKERS
- 701006-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701201-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701301-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701311-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701321-08 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701326-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 702001-05 TRAFFIC CONTROL DEVICES
- 704001-02 TEMPORARY CONCRETE
- 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 886001 DETECTOR LOOP INSTALLATIONS
- 886006 TYPICAL LAYOUT FOR DETECTION LOOPS

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

JODAVIESS COUNTY  
 PLEASANT VALLEY TOWNSHIP, SECTION 3 & 35, T. 26-N. & R-4-E.

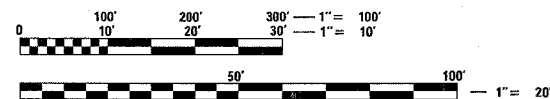
CONTRACT NO. 64B27



-DAVIS CREEK (SN#043-0042) INCLUDES THE REMOVAL AND REPLACEMENT OF SUPERSTRUCTURE ON BRIDGE CARRYING IL 78 OVER DAVIS CREEK WITH GUARDRAIL UP DATES

-PLUM RIVER (SN# 043-0040) WILL INCLUDE ONLY A NEW CONCRETE DECK OVERLAY

GROSS LENGTH OF SECTION = 738 FEET = .014 MILES  
 NET LENGTH OF SECTION = 738 FEET = .014 MILES



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED December 30<sup>th</sup> 20 05

George Z. Prunty  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3, 20 06  
Mike Nive  
 ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 20 06  
Milton R. Sees, P.E.  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(10BR-3)D	JODAVIESS	45	2
STA.	11BR-8 TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	BR FUNDS		STP FUNDS
				X080-2A 100% STATE	SFTY-3N 100% STATE	F
				BHF		1/100 STATE
						SFTY-2A EXIST. SN# 043-0040
20200600	EXCAVATING & GRADING EXISTING SHOULDERS	UNIT	1	1		
20400800	FURNISHED EXCAVATION	CU YD	75	75		
25100630	EROSION CONTROL BLANKET	SQ YD	1114	1114		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150		
28000400	PERIMETER EROSION BARRIER	FOOT	950	950		
X4006765	LEVELING BINDER (MACHINE METHOD) SUPERPAVE N50	TON	114	114		
44000007	BITUMINOUS CONCRETE SURFACE REMOVAL 2"	SQ YD	282	158		124
44001205	BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE	SQ YD	555			555
48101200	AGGREGATE SHOULDERS, TYPE B	TON	190	190		
48200300	BITUMINOUS SHOULDERS 5"	SQ YD	366	366		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	20.7	12.6		8.1
50300100	FLOOR DRAINS	EACH	8.0			8.0
50300225	CONCRETE STRUCTURES	CU YD	11.7	5.4		6.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2.7			2.7
50300260	BRIDGE DECK GROOVING	SQ YD	924	409		515
50300300	PROTECTIVE COAT	SQ YD	1013	447		566
50300530	FLOOR DRAIN EXTENSION	EACH	8			8
50301250	FORMED CONCRETE REPAIR (DEPTH GREATER THAN 5")	SQ FT	21			21
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ. FT.	3852	3852		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	14530	6400		8130
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	214	214		
51500100	NAME PLATES	EACH	1	1		
542D0220	PIPE CULVERTS, CLASSD, TYPE 1 15"	FOOT	50	50		
54213450	END SECTIONS 15"	EACH	1	1		
* 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	402	402		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		

\* SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE DRAWN BY CHECKED BY

PLOT DATE = Fri, Dec 30 09:52:14 2005  
 PLOT SCALE = 50.0000  
 USER NAME = rjgwr-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(108R-3D)	JODAVIESS	45	3
STA.	118R-8	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

# SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	BR FUNDS B H F		STP FUNDS F
				X080-2A 100 % STATE	SFTY-3N 100 % STATE	100 STATE SFTY-2A EXIST. SN# 043-0040
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4			
63200310	GUARDRAIL REMOVAL	FOOT	717	717		
63500105	DELINEATORS	EACH	4	4		
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3		
67100100	MOBILIZATION	L SUM	1	1		
70100100	TRAFFIC CONTROL AND PROTECTION STD 701316	EACH	1			1
70100405	TRAFFIC CONTROL AND PROTECTION STD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION STD. 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION STD. 701326	L SUM	1			1
70103815	TRAFFIC CONTROL SURVEILANCE	CAL DA	4	4		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1
70300200	TEMPORARY PAVEMENT MARKING	FOOT	3965	2313		1652
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	382	382		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	480	480		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	480	480		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3462	2480		982
* 78100100	RAISED REFLECTIVE <del>MARKER</del> <sup>PAVEMENT</sup>	EACH	6	6		
78200410	GUARDRAIL MARKERS, TYPE A	EACH	15	15		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6		
X0323557	BRIDGE JOINT SYSTEM (EXPANSION), 1"	FOOT	74.6			74.6
X0323558	BRIDGE JOINT SYSTEM (EXPANSION) 1-5/8"	FOOT	36	36		
X0712400	TEMPORARY PAVEMENT	SO YD	24			24
X4066414	BITUMINOUS CONCRETE SURFACE COARSE, SUPERPAVE, MIX "C", N50	TON	118	104		14
X5030305	CONCRETE WEARING SURFACE 5"	SO YD	977.5	429		548.5
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	72	72		
Z0002600	BAR SPLICERS	EACH	358	197		161
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2	

\* SPECIALTY ITEMS

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.      DRAWN BY  
 DATE              HORIZ.              CHECKED BY

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 642 (IL 78)	(10BR-3)D & 11BR-8	JoDaviess	45	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B27				

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 6 (modified) shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1 (modified). Class 6 (modified) shall be used on front slopes and ditch bottoms. Class 4 shall be used on all backslopes and areas behind the backslope. This work will be done at no additional cost to the Department.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be done at no additional cost to the Department.

Mulch Method II shall be applied over all seeded areas. This work shall be done at no additional cost to the Department.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Mainline Surface Course
PG:	PG 64-22
RAP%: (Max)	10%
Design Air Voids	4.2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5
Friction Aggregate	C
20 Year ESAL	4.3

Install a "TO ACTUATE SIGNAL" sign for the traffic signal detector loops. The detail of this sign is included in the plans. This work will be included in the cost of TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

This structure will retain the same numbers: 043-0040 & 043-0042.

Bituminous Prime Coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the Bituminous Prime Coat shall be included in the contract unit price per TON for BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50.

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials and on all existing posts in need of a nail.

Pavement marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

Permanent survey markers, Type II shall be cast-in-place as shown on Highway Standard 667101. A marker shall be placed near each end of the structure in such a location that will take into account satellite and future construction. Location shall be determined by the Engineer.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co.

Verizon

Following are the known utilities located within the project limits or immediately adjacent to the project construction limits which are not members of JULIE and should be notified individually by the contractor:

IDOT  
819 Depot Ave.  
Dixon, IL 61021

Due to environmental concerns, the following shall be strictly adhered to:

1. All work shall be performed from the existing decks and no work shall take place below the existing structure on the ground.
2. No fill shall be placed in or around Plum River or Davis Creek.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

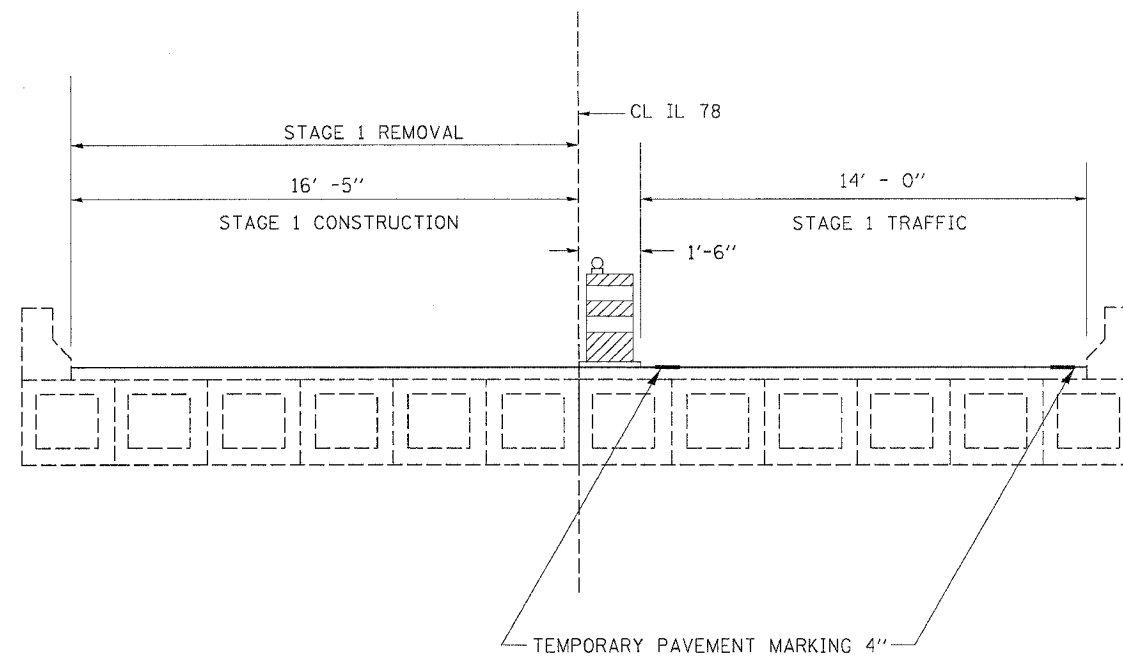
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

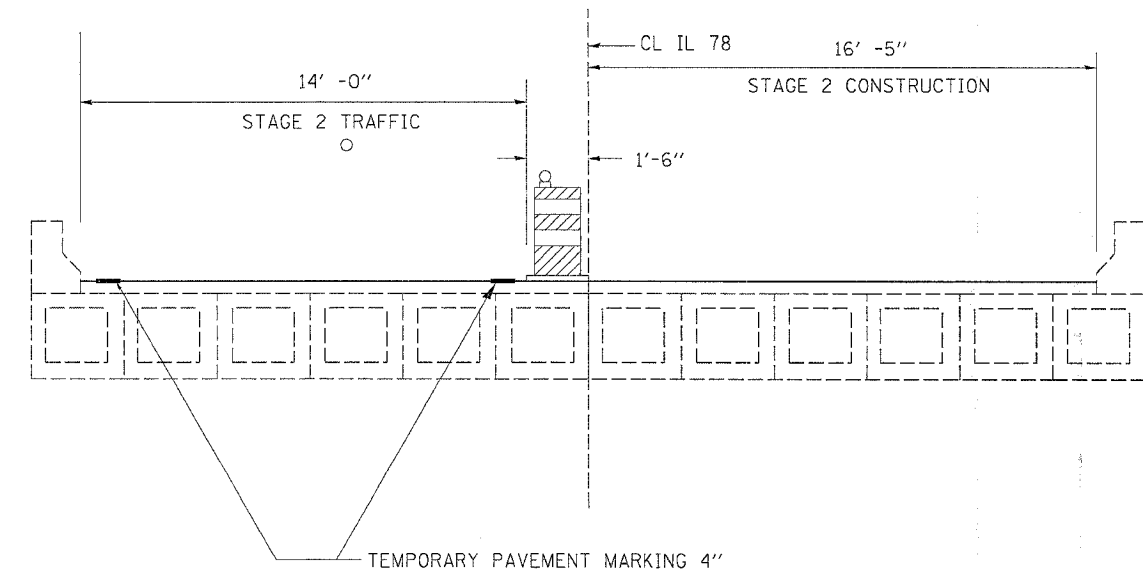
\* (10BR-3)D & 11BR-6

# TYPICAL SECTION (SN 043-0040) PLUM RIVER

## STAGE 1



## STAGE 2



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
HORIZ.  
DATE

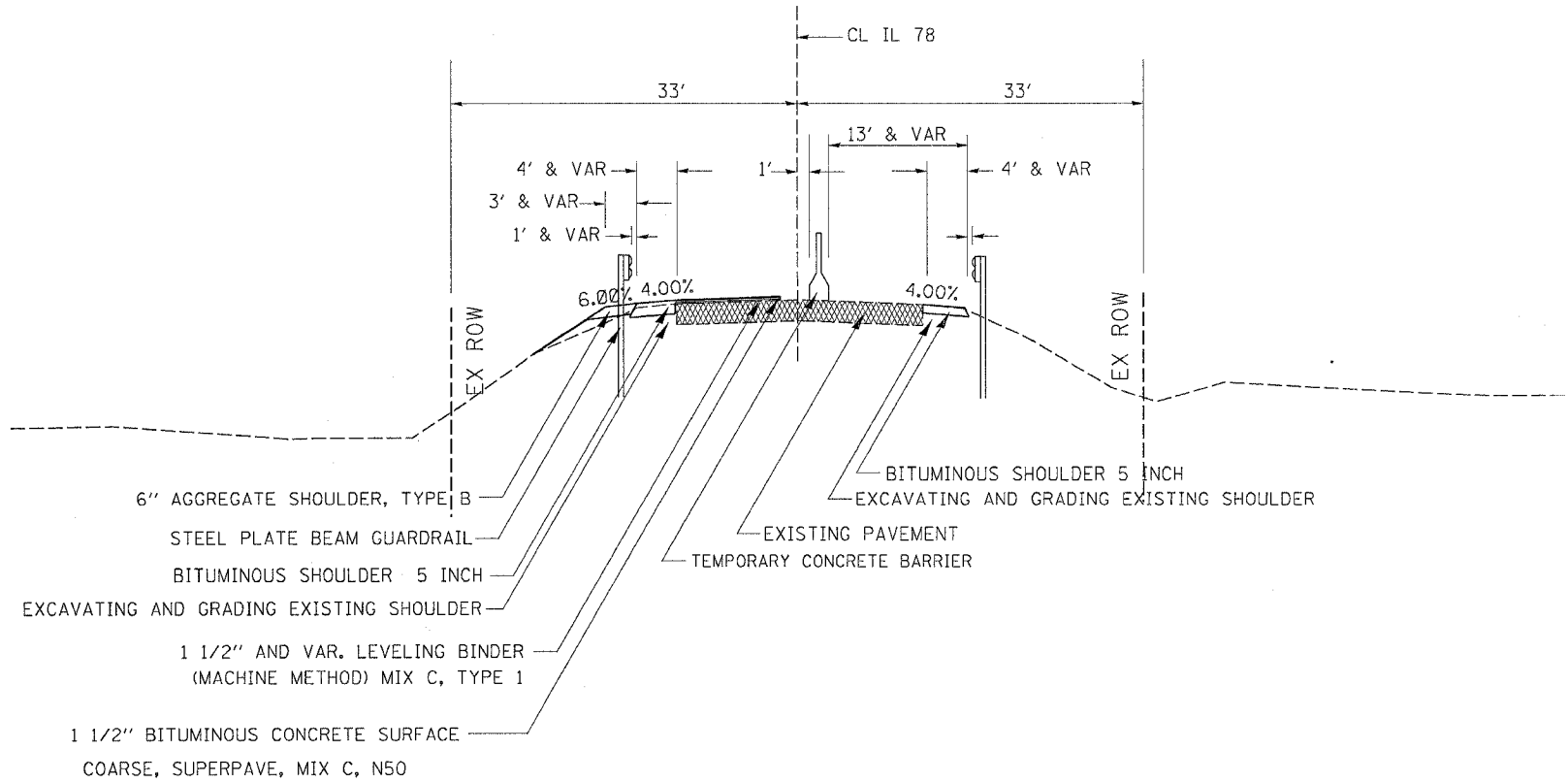
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	*	JODAVIESS	45	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

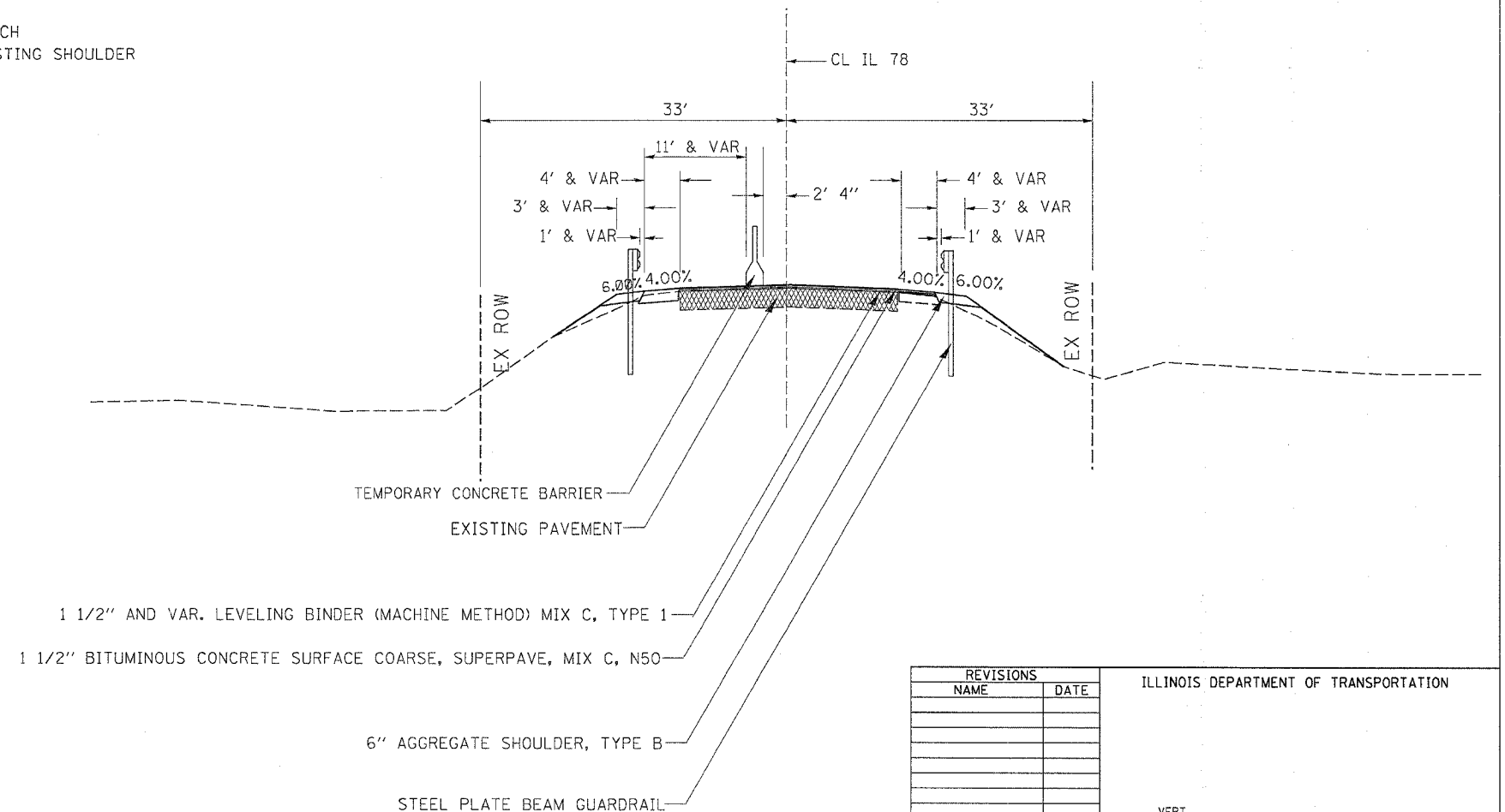
• (10BR-310 & 11BR-8

# TYPICAL SECTION (SN 043-0042) DAVIS CREEK

## STAGE 1 18 + 12.93 - 23 + 62.40



## STAGE 2 18 + 12.93 - 23 + 62.40



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

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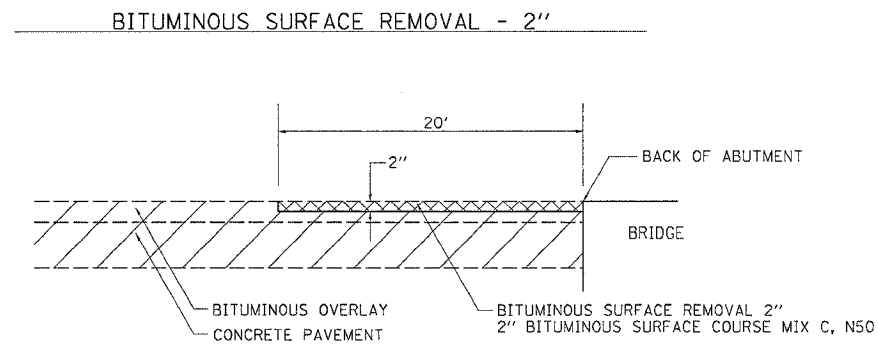
F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\* 110BR-31D & 11BR-8

# BUTT JOINT

## PLUM RIVER

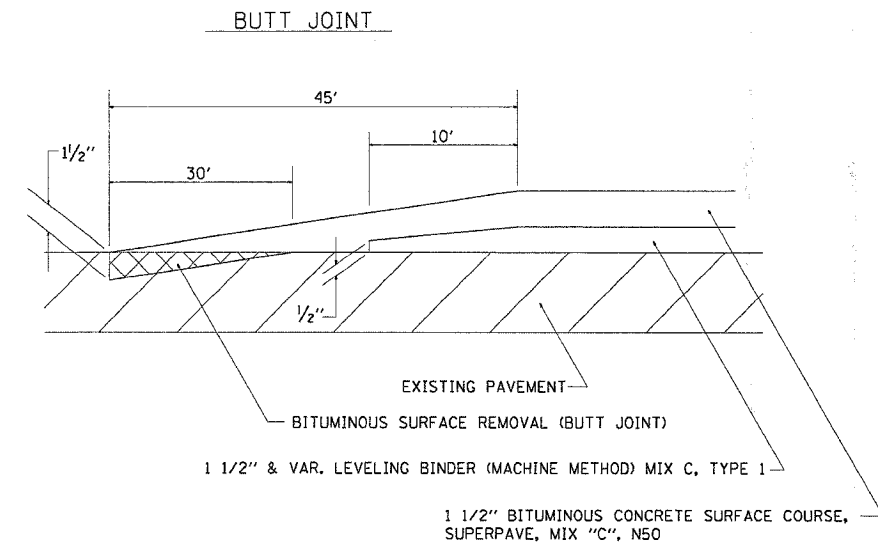
(SN # 043-0040)



## DAVIS CREEK

(SN # 043-0042)

STA. 18+12.93 - STA 18+42.93 & STA 23+32.40 - STA. 23+62.40



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	108R-3D	JODAVIESS	45	6
STA.	118R-8	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# SCHEDULE OF QUANTITIES

<p>20200600 <u>EXCAVATING &amp; GRADING EXISTING SHOULDERS</u></p> <table border="0"> <tr> <td>UNIT</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>18+12 - 23+62</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>1</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>20400800 <u>FURNISHED EXCAVATION</u></p> <table border="0"> <tr> <td>CU YD</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>75</td> <td>18+12 - 23+62</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>75</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>25100630 <u>EROSION CONTROL BLANKET</u></p> <table border="0"> <tr> <td>SQ YD</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>444</td> <td>18+04 - 20+21</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>670</td> <td>21+28 - 23+86</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>1114</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>28000250 <u>TEMPORARY EROSION CONTROL</u></p> <table border="0"> <tr> <td>POUND</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>70</td> <td>18+04 - 20+21</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>80</td> <td>21+28 - 23+86</td> <td>LT &amp; RT</td> <td></td> </tr> <tr> <td>150</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>28000400 <u>PERIMETER EROSION BARRIER</u></p> <table border="0"> <tr> <td>EQ FT</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>211</td> <td>18+12 - 20+21</td> <td>LT</td> <td></td> </tr> <tr> <td>230</td> <td>18+04 - 20+21</td> <td>RT</td> <td></td> </tr> <tr> <td>275</td> <td>21+28 - 23+86</td> <td>LT</td> <td></td> </tr> <tr> <td>234</td> <td>21+27 - 23+62</td> <td>RT</td> <td></td> </tr> <tr> <td>950</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>40600530 <u>LEVELING BINDER (MACHINE METHOD) MIX C, TYPE 1, N50</u></p> <table border="0"> <tr> <td>TON</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>53</td> <td>18+42 - 20+21</td> <td></td> <td></td> </tr> <tr> <td>61</td> <td>21+28 - 23+40</td> <td></td> <td></td> </tr> <tr> <td>114</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>44000007 <u>BITUMINOUS CONCRETE SURFACE REMOVAL 2"</u></p> <table border="0"> <tr> <td>SQ YD</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>79</td> <td>18+12 - 18+42</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>23+32 - 23+62</td> <td></td> <td></td> </tr> <tr> <td>61</td> <td>317+37 - 317+63</td> <td></td> <td></td> </tr> <tr> <td>62</td> <td>319+09 - 319+35</td> <td></td> <td></td> </tr> <tr> <td>282</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table>	UNIT	LOCATION			1	18+12 - 23+62	LT & RT		1	TOTAL			CU YD	LOCATION			75	18+12 - 23+62	LT & RT		75	TOTAL			SQ YD	LOCATION			444	18+04 - 20+21	LT & RT		670	21+28 - 23+86	LT & RT		1114	TOTAL			POUND	LOCATION			70	18+04 - 20+21	LT & RT		80	21+28 - 23+86	LT & RT		150	TOTAL			EQ FT	LOCATION			211	18+12 - 20+21	LT		230	18+04 - 20+21	RT		275	21+28 - 23+86	LT		234	21+27 - 23+62	RT		950	TOTAL			TON	LOCATION			53	18+42 - 20+21			61	21+28 - 23+40			114	TOTAL			SQ YD	LOCATION			79	18+12 - 18+42			80	23+32 - 23+62			61	317+37 - 317+63			62	319+09 - 319+35			282	TOTAL			<p>48101200 <u>AGGREGATE SHOULDERS, TYPE B</u></p> <table border="0"> <tr> <td>TON</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>18+04 - 20+21</td> <td>RT</td> <td></td> </tr> <tr> <td>50</td> <td>18+51 - 20+21</td> <td>LT</td> <td></td> </tr> <tr> <td>45</td> <td>21+28 - 22+90</td> <td>RT</td> <td></td> </tr> <tr> <td>45</td> <td>21+28 - 23+86</td> <td>LT</td> <td></td> </tr> <tr> <td>190</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>48200300 <u>BITUMINOUS SHOULDERS 5"</u></p> <table border="0"> <tr> <td>SQ YD</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>86</td> <td>18+12 - 20+06</td> <td>RT</td> <td></td> </tr> <tr> <td>97</td> <td>21+44 - 23+62</td> <td>RT</td> <td></td> </tr> <tr> <td>86</td> <td>18+12 - 20+06</td> <td>LT</td> <td></td> </tr> <tr> <td>97</td> <td>21+44 - 23+62</td> <td>LT</td> <td></td> </tr> <tr> <td>366</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>54200220 <u>PIPE CULVERTS, CLASS D, TYPE 1 15'</u></p> <table border="0"> <tr> <td>EQ FT</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>18+15 - 18+65</td> <td>RT</td> <td></td> </tr> <tr> <td>50</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>54213450 <u>END SECTIONS 15"</u></p> <table border="0"> <tr> <td>EACH</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>18+65</td> <td>RT</td> <td></td> </tr> <tr> <td>1</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>63000005 <u>STEEL PLATE BEAM GUARDRAIL, TYPE B</u></p> <table border="0"> <tr> <td>EQ FT</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>63</td> <td>19+25 - 19+88</td> <td>LT</td> <td></td> </tr> <tr> <td>126</td> <td>18+62 - 19+88</td> <td>RT</td> <td></td> </tr> <tr> <td>150</td> <td>21+62 - 23+12</td> <td>LT</td> <td></td> </tr> <tr> <td>63</td> <td>21+62 - 22+25</td> <td>RT</td> <td></td> </tr> <tr> <td>402</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>63100087 <u>TRAFFIC BARRIER TERMINAL, TYPE 6A</u></p> <table border="0"> <tr> <td>EACH</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>20+21</td> <td>LT</td> <td></td> </tr> <tr> <td>1</td> <td>21+28</td> <td>LT</td> <td></td> </tr> <tr> <td>1</td> <td>20+21</td> <td>RT</td> <td></td> </tr> <tr> <td>1</td> <td>21+28</td> <td>RT</td> <td></td> </tr> <tr> <td>4</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table> <p>63100167 <u>TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)</u></p> <table border="0"> <tr> <td>EACH</td> <td>LOCATION</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>18+75 - 19+25</td> <td>LT</td> <td></td> </tr> <tr> <td>1</td> <td>18+12 - 18+62</td> <td>RT</td> <td></td> </tr> <tr> <td>1</td> <td>23+12 - 23+62</td> <td>LT</td> <td></td> </tr> <tr> <td>1</td> <td>22+25 - 22+75</td> <td>RT</td> <td></td> </tr> <tr> <td>4</td> <td>TOTAL</td> <td></td> <td></td> </tr> </table>	TON	LOCATION			50	18+04 - 20+21	RT		50	18+51 - 20+21	LT		45	21+28 - 22+90	RT		45	21+28 - 23+86	LT		190	TOTAL			SQ YD	LOCATION			86	18+12 - 20+06	RT		97	21+44 - 23+62	RT		86	18+12 - 20+06	LT		97	21+44 - 23+62	LT		366	TOTAL			EQ FT	LOCATION			50	18+15 - 18+65	RT		50	TOTAL			EACH	LOCATION			1	18+65	RT		1	TOTAL			EQ FT	LOCATION			63	19+25 - 19+88	LT		126	18+62 - 19+88	RT		150	21+62 - 23+12	LT		63	21+62 - 22+25	RT		402	TOTAL			EACH	LOCATION			1	20+21	LT		1	21+28	LT		1	20+21	RT		1	21+28	RT		4	TOTAL			EACH	LOCATION			1	18+75 - 19+25	LT		1	18+12 - 18+62	RT		1	23+12 - 23+62	LT		1	22+25 - 22+75	RT		4	TOTAL		
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PLOT DATE = Fri Dec 30 09:55:18 2005  
 PLOT SCALE = 500000 / IN.  
 USER NAME = fspg001

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

SCALE: VERT. DATE  
 HORIZ. DRAWN BY  
 CHECKED BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(10BR-3)D	JODAVIESS	45	9
STA.	11BR-B	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# SCHEDULE OF QUANTITIES

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION		
148	18+73	- 20+21	LT
211	21+28	- 23+39	LT
210	18+11	- 20+21	RT
148	21+28	- 22+76	RT
717	TOTAL		

63500105 DELINEATORS

EACH	LOCATION		
1	18+75		LT
1	18+12		RT
1	23+62		LT
1	22+75		RT
4	TOTAL		

70300200 TEMPORARY PAVEMENT MARKING

FOOT	LOCATION			
638	16+62	- 23+00	YELLOW	STAGE 1
511	17+89	- 23+00	WHITE	STAGE 1
638	16+62	- 23+00	YELLOW	STAGE 2
526	17+74	- 23+00	WHITE	STAGE 2
413	315+87	- 320+00	YELLOW	STAGE 1
413	315+87	- 320+00	WHITE	STAGE 1
413	315+87	- 320+00	YELLOW	STAGE 2
413	315+87	- 320+00	WHITE	STAGE 2
3965	TOTAL			

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ. FT	LOCATION		
16	18+14	- 18+88	STAGE 1 CL
171	18+14	- 23+34	STAGE 1 WHITE RT
24	22+62	- 23+34	STAGE 1 CL
171	18+14	- 23+34	STAGE 2 WHITE LT
382	TOTAL		

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION		
480	18+35	- 23+14	
480	TOTAL		

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION		
480	18+35	- 23+14	
480	TOTAL		

78001110 PAINT PAVEMENT MARKING LINE 4"

FOOT	LOCATION			
1100	18+12	- 23+62	WHITE EDGELINES - 2 COATS	
1100	18+12	- 23+62	WHITE EDGELINES - 2 COATS	
280	18+12	- 23+62	SKIP DASH YELLOW - 2 COATS	
436	317+27	- 319+45	WHITE EDGELINES - 2 COATS	
436	317+27	- 319+45	WHITE EDGELINES - 2 COATS	
110	317+27	- 319+45	SKIP DASH YELLOW - 2 COATS	
3462	TOTAL			

78100100 RAISED REFLECTIVE MARKER

EACH	LOCATION		
6	18+12	- 23+62	
6	TOTAL		

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION			
2	19+25	- 19+88		LT
5	18+62	- 19+88		RT
6	21+62	- 23+12		LT
2	21+62	- 22+25		RT
15	TOTAL			

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION			
1	18+75			LT
1	18+12			RT
1	23+62			LT
1	22+75			RT
4	TOTAL			

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION		
6	18+12	- 23+62	
6	TOTAL		

X0712400 TEMPORARY PAVEMENT

SQ. YD	LOCATION			
10	317+28	- 317+47		RT
14	319+33	- 319+63		RT
24	TOTAL			

X4066414 BITUMINOUS CONCRETE SURFACE COARSE, SUPERPAVE, MIX C, N50

TON	LOCATION		
9	18+12	- 18+42	
9	23+32	- 23+62	
40	18+12	- 20+21	
46	21+28	- 23+32	
7	317+37	- 317+63	
7	319+09	- 319+35	
118	TOTAL		

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON -RE-DIRECTIVE), TEST LEVEL 3

EACH	LOCATION		
1	18+35		LT
1	23+14		LT
2	TOTAL		

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON -RE-DIRECTIVE), TEST LEVEL 3

EACH	LOCATION		
1	18+35		RT
1	23+14		RT
2	TOTAL		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\* 110BR-310 & 11BR-8

# EXISTING HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1997911.6369	2345446.8475	643.3290	EXIL78	842+82.5479	29.6797' LT	108
10	2071986.5189	2335468.7378	1079.2100	EXIL78	631+74.3047	4339.8801' LT	108
29	2034703.2863	2331364.7568	695.3960	EXIL78	231+17.5461	201.1847' LT	108
31	2012576.0958	2342622.4698	861.0480	EXIL78	1006+86.8417	28.2775' LT	108
90	1975376.4564	2347921.0162	797.4100	EXIL78	647+64.8279	5143.8811' LT	108

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
127	2014465.0804	2341026.3453	0.0000	EXIL78	1+76.7182	21.4287' LT	SURVEY POINT
128	2019539.8183	2337078.1349	0.0000	EXIL78	66+06.5372	16.9984' LT	SURVEY POINT
137	2040801.1673	2332311.1225	0.0000	EXIL78	297+16.2328	13.5183' RT	SURVEY POINT
138	2041891.4331	2332887.2498	0.0000	EXIL78	309+47.8349	16.7900' LT	SURVEY POINT
139	2043298.4721	2334035.8037	0.0000	EXIL78	327+70.1124	15.1890' RT	SURVEY POINT
140	2044517.1746	2334422.2735	0.0000	EXIL78	340+45.4205	29.4412' LT	SURVEY POINT

Chain EXIL78 contains:  
 210 CUR 1200 CUR 1210 CUR 1220 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 CUR 1280 CUR 1290 CUR 1300 CUR 1310 CUR 1320 CUR 1330 CUR 1340 CUR 1350 CUR 1360 - CUR 1370 CUR 1380 CUR 1390 CUR 1400 CUR 1410 CUR 1420 CUR 1430 CUR 1440 CUR 1450 CUR 1460 CUR 1470 CUR 1480 CUR 1490 CUR 1500 CUR 1510 CUR 1520 CUR 1530 CUR 1540 CUR 1550 CUR 1560 CUR 1570 CUR 1580 CUR 1590 CUR 1600 CUR 1610 CUR 1620 CUR 1630 CUR 1640 CUR 1650 CUR 1660 CUR 1670 CUR 1680 CUR 1690 CUR 1700 CUR 1710 CUR 1720 CUR 1730 CUR 1740 CUR 1750 CUR 1760 CUR 1770 CUR 1780 CUR 1790 CUR 1800 CUR 1810 CUR 1820 CUR 1830 CUR 1840 CUR 1850 CUR 1860 CUR 1870 CUR 1880 CUR 1890 CUR 1900 CUR 1910 CUR 1920 CUR 1930 CUR 1940 CUR 1950 CUR 1960 CUR 1970 CUR 1980 CUR 1990 CUR 2000 CUR 2010 CUR 2020 CUR 2030 CUR 2040 CUR 2050 CUR 2060 CUR 2070 CUR 2080 CUR 2090 CUR 2100

Beginning chain EXIL78 description

Point 210 N 1,979,741.9831 E 2,347,841.0376 Sta 636+75.2910

Course from 210 to PC 1200 0° 54' 38.8674" Dist 607.4086'

Curve Data  
 -----

Curve 1470  
 P.I. Station 1029+52.0827 N 2,014,234.6450 E 2,341,241.6868  
 Delta = 1° 37' 14.2365" (RT)  
 Degree = 0° 35' 19.0379"  
 Tangent = 137.6716'  
 Length = 275.3248'  
 Radius = 9,733.8897'  
 External = 0.9735'  
 Long Chord = 275.3156'  
 Mid. Ord. = 0.9734'  
 S. E. = 0.000  
 P.C. Station 1028+14.4111 N 2,014,130.8662 E 2,341,332.1492  
 P.T. Station 1030+89.7359 N 2,014,340.9406 E 2,341,154.1957  
 C.C. N 2,020,526.8892 E 2,348,669.6895

Equation: Sta 1030+89.7359 (BK) = Sta 0+00.0000 (AH) -----  
 End Region 1  
 Begin Region 2

Point 1473 N 2,014,340.9406 E 2,341,154.1957 Sta 0+00.0000

Curve Data  
 -----

Curve 1480  
 P.I. Station 1+51.3310 N 2,014,457.7825 E 2,341,058.0239  
 Delta = 1° 46' 52.9729" (RT)  
 Degree = 0° 35' 19.0277"  
 Tangent = 150.3309'  
 Length = 302.6375'  
 Radius = 9,733.9362'  
 External = 1.1763'  
 Long Chord = 302.6253'  
 Mid. Ord. = 1.1761'  
 S. E. = 0.000  
 P.C. Station 0+00.0000 N 2,014,340.9406 E 2,341,154.1957  
 P.T. Station 3+02.6375 N 2,014,577.5576 E 2,340,965.5307  
 C.C. N 2,020,526.9188 E 2,348,669.7255

Course from PT 1480 to 269 322° 19' 25.7963" Dist 1,024.8645'

Point 269 N 2,015,388.7152 E 2,340,339.1357 Sta 13+27.5021

Course from 269 to 270 322° 15' 06.2685" Dist 802.6215'

Point 270 N 2,016,023.3546 E 2,339,847.7763 Sta 21+30.1235

Course from 270 to PC 1510 322° 17' 57.6998" Dist 2,288.3665'

Curve Data  
 -----

Curve 1510  
 P.I. Station 48+57.0351 N 2,018,180.9326 E 2,338,180.1720  
 Delta = 0° 45' 57.1840" (LT)  
 Degree = 0° 05' 14.3605"  
 Tangent = 438.5450'  
 Length = 877.0770'  
 Radius = 65,614.0909'  
 External = 1.4655'  
 Long Chord = 877.0705'  
 Mid. Ord. = 1.4655'  
 S. E. = 0.000  
 P.C. Station 44+18.4901 N 2,017,833.9484 E 2,338,448.3581  
 P.T. Station 52+95.5671 N 2,018,524.3010 E 2,337,907.3719  
 C.C. N 1,977,708.5787 E 2,286,533.3927

Course from PT 1510 to 273 321° 32' 00.5158" Dist 699.1796'

Point 273 N 2,019,071.7388 E 2,337,472.4422 Sta 59+94.7467

Course from 273 to PC 1530 321° 28' 51.4610" Dist 3,534.3654'

Curve Data  
 -----

Curve 1530  
 P.I. Station 97+73.0837 N 2,022,027.9145 E 2,335,119.3896  
 Delta = 26° 58' 46.8240" (RT)  
 Degree = 5° 38' 01.4947"  
 Tangent = 243.9717'  
 Length = 478.8938'  
 Radius = 1,017.0099'  
 External = 28.8540'  
 Long Chord = 474.4816'  
 Mid. Ord. = 28.0580'  
 S. E. = 0.000  
 P.C. Station 95+29.1121 N 2,021,837.0307 E 2,335,271.3290  
 P.T. Station 100+08.0059 N 2,022,266.9549 E 2,335,070.5852  
 C.C. N 2,022,470.3987 E 2,336,067.0388

Course from PT 1530 to 276 348° 27' 38.2850" Dist 591.8503'

Point 276 N 2,022,846.8425 E 2,334,952.1908 Sta 105+99.8562

Course from 276 to PC 1550 348° 13' 51.7816" Dist 627.1230'

Curve Data  
 -----

Curve 1690  
 P.I. Station 309+47.5380 N 2,041,888.6020 E 2,332,888.8603  
 Delta = 13° 19' 47.6819" (RT)  
 Degree = 2° 49' 00.7198"  
 Tangent = 237.6819'  
 Length = 473.2177'  
 Radius = 2,034.0253'  
 External = 13.8398'  
 Long Chord = 472.1512'  
 Mid. Ord. = 13.7463'  
 S. E. = 0.000  
 P.C. Station 307+09.8561 N 2,041,679.9413 E 2,332,775.0473  
 P.T. Station 311+83.0738 N 2,042,065.4006 E 2,333,047.7153  
 C.C. N 2,040,705.9566 E 2,334,560.7160

Course from PT 1690 to PC 1700 41° 56' 23.8786" Dist 1,126.5395'

Curve Data  
 -----

Curve 1700  
 P.I. Station 325+24.5959 N 2,043,063.2859 E 2,333,944.3238  
 Delta = 24° 08' 10.5258" (LT)  
 Degree = 5° 41' 52.9777"  
 Tangent = 214.9827'  
 Length = 423.5881'  
 Radius = 1,005.5332'  
 External = 22.7248'  
 Long Chord = 420.4630'  
 Mid. Ord. = 22.2226'  
 S. E. = 0.000  
 P.C. Station 323+09.6133 N 2,042,903.3720 E 2,333,800.6398  
 P.T. Station 327+33.2013 N 2,043,267.9729 E 2,334,010.0562  
 C.C. N 2,043,575.4217 E 2,333,052.6784

Course from PT 1700 to PC 1710 17° 48' 13.3528" Dist 914.0343'

Curve Data  
 -----

Curve 1710  
 P.I. Station 339+82.5342 N 2,044,457.4747 E 2,334,392.0484  
 Delta = 18° 58' 37.4021" (RT)  
 Degree = 2° 51' 21.7132"  
 Tangent = 335.2986'  
 Length = 664.4554'  
 Radius = 2,006.1327'  
 External = 27.8274'  
 Long Chord = 661.4224'  
 Mid. Ord. = 27.4466'  
 S. E. = 0.000  
 P.C. Station 336+47.2356 N 2,044,138.2337 E 2,334,289.5286  
 P.T. Station 343+11.6911 N 2,044,726.0262 E 2,334,592.8100  
 C.C. N 2,043,524.8448 E 2,336,199.5867

Course from PT 1710 to PC 1720 36° 46' 50.7549" Dist 713.8902'

Ending chain EXIL78 description

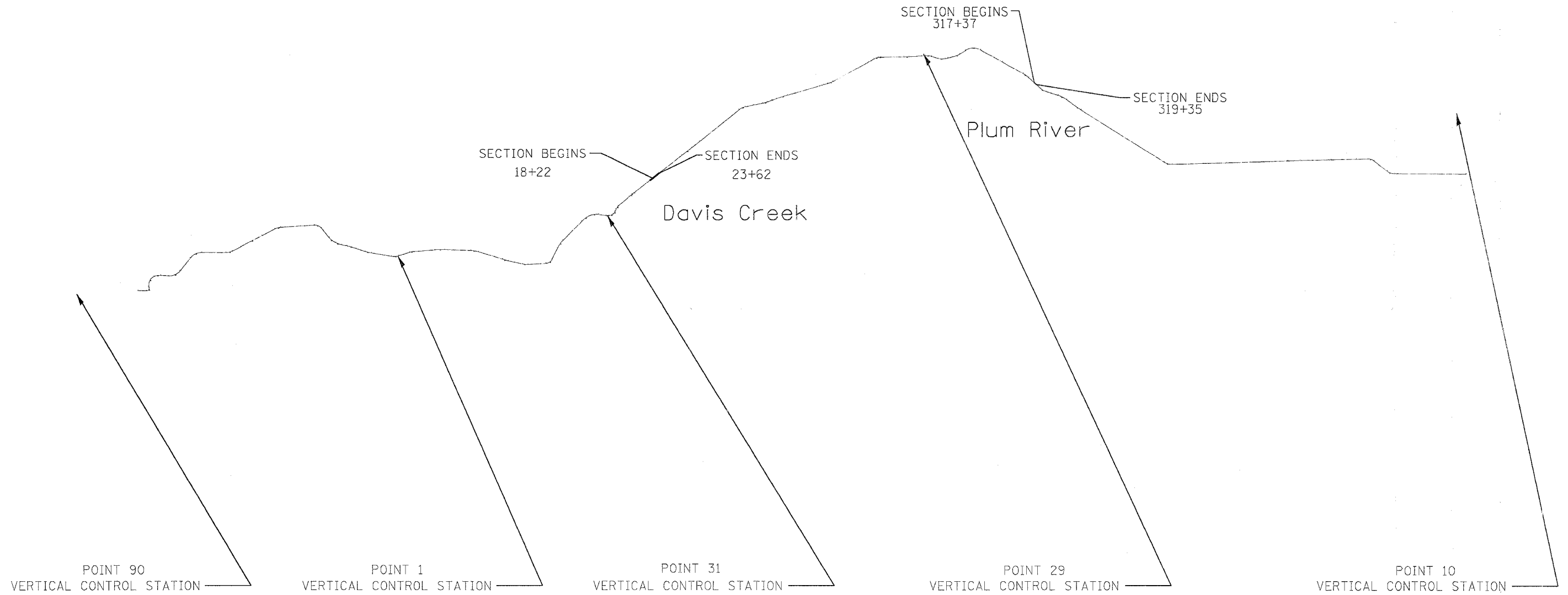
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____ DRAWN BY _____ CHECKED BY _____

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 PLOT USER = jay  
 PLOT SCALE = 20.0000 / IN.  
 USER NAME = jay

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	•	JODAVIESS	45	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• (10BR-3)D & 11BR-8

# EXISTING HORIZONTAL AND VERTICAL CONTROL



PLOT DATE = Fri Dec 30 09:50:32 2005  
 PLOT SCALE = 20.0000 / IN.  
 USER NAME = rjg

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
 HORIZ.  
 DATE

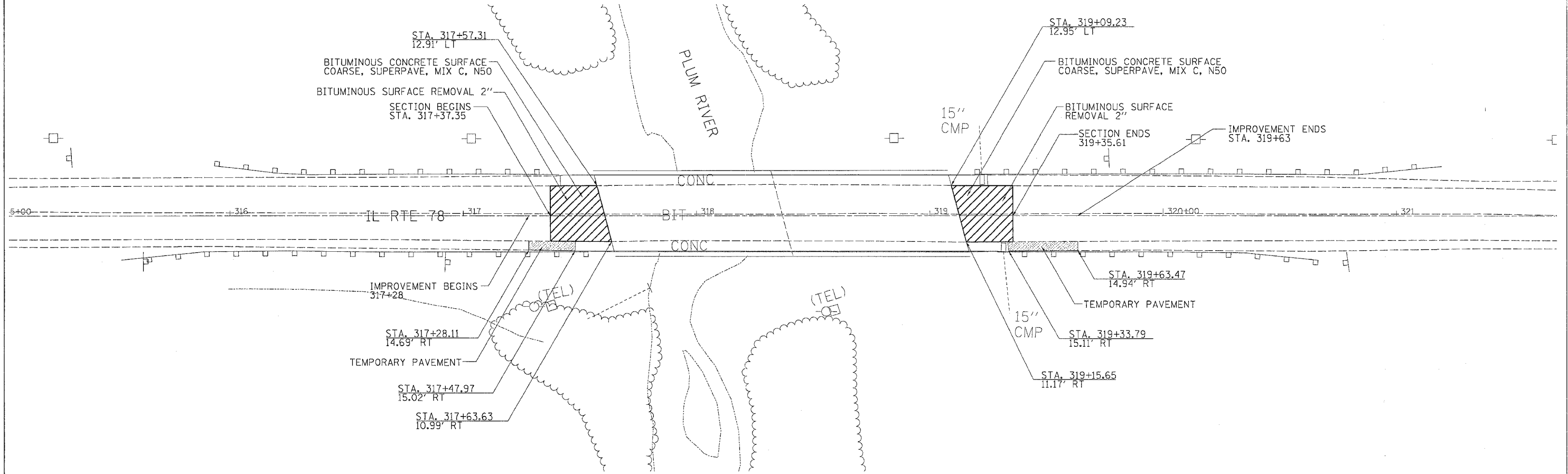
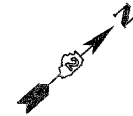
DRAWN BY  
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• (10BR-3) & 11BR-8

# PLAN SHEET

(SN # 0430040)  
PLUM RIVER



PLOT DATE = Fri, Dec 30 09:02:36 2005  
 PLOT SCALE = 20.00000  
 USER NAME = ragnor1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
HORIZ.  
DATE

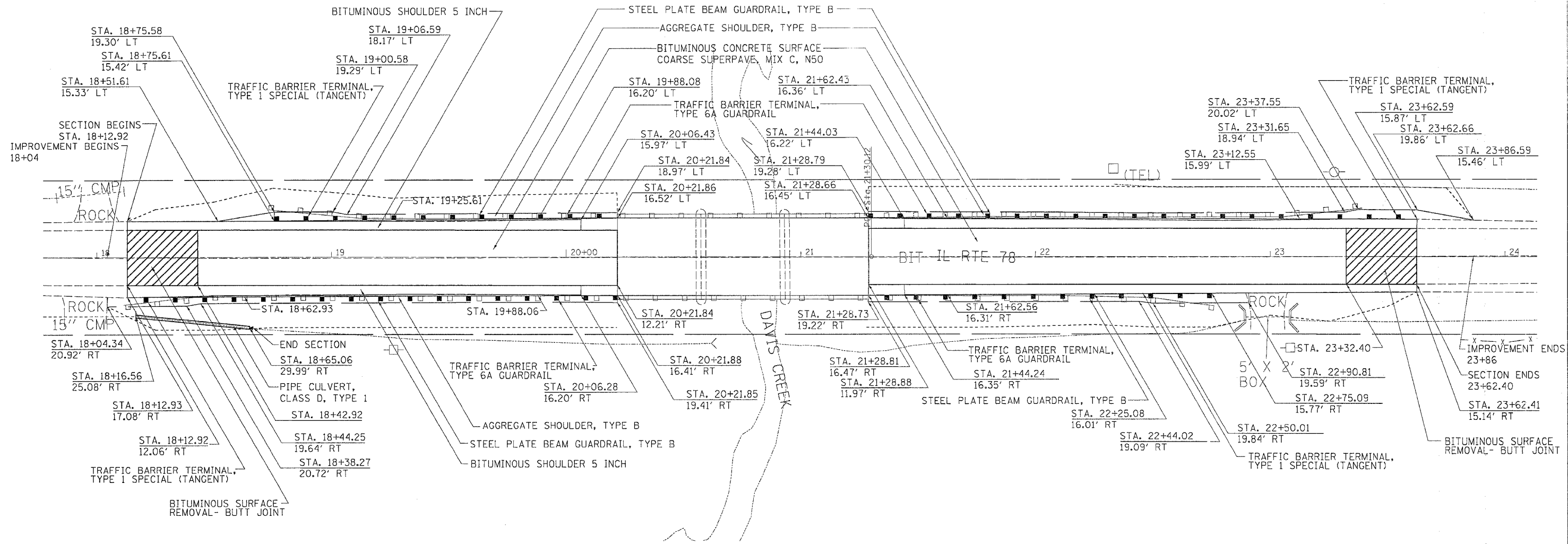
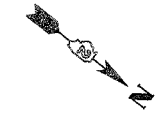
DRAWN BY  
CHECKED BY

F.A. #	SECTION	COUNTY	TOTAL SHEET
642	JODAVIESS	45	13
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
110BR-3) & 11BR-8			

# PLAN SHEET

(SN # 043-0042)

## DAVIS CREEK



PLOT DATE = Fri, Dec 30 09:46:25 AM 2005  
 PLOT SCALE = 20/8000 / IN.  
 USER NAME = reynard1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
HORIZ.  
DATE

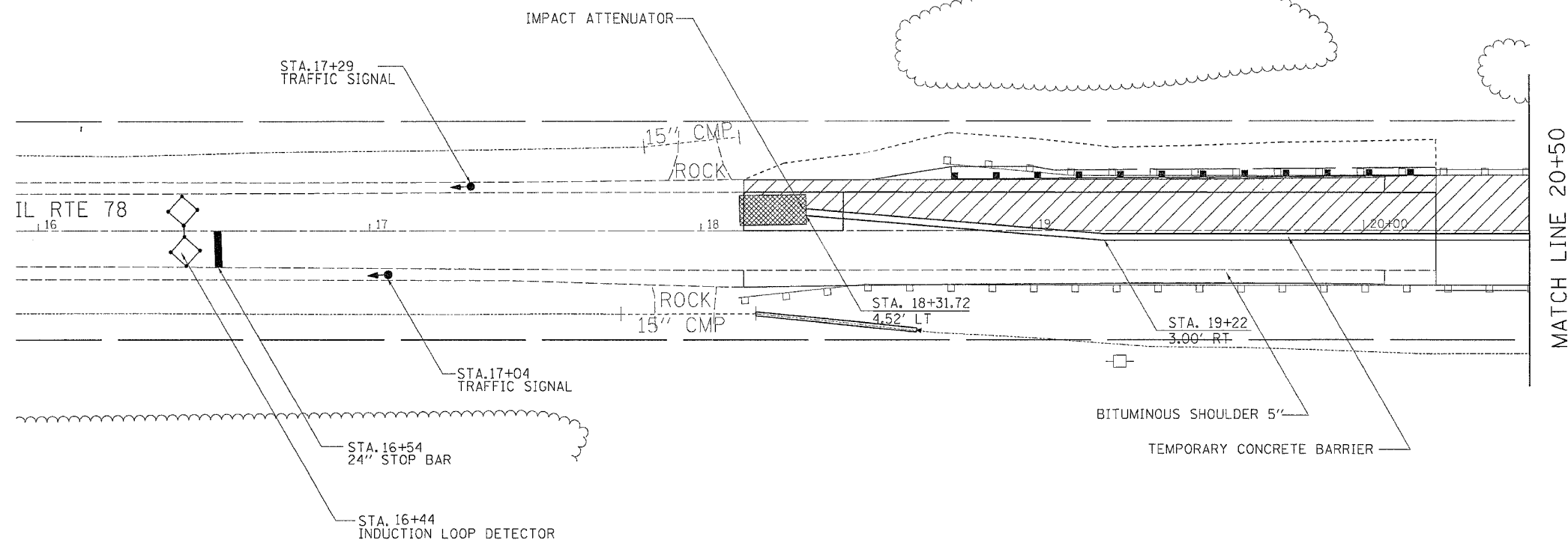
DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 110BR-31D & 11BR-8

# STAGE DETAILS

( SN # 0430042 )  
STAGE 1



MATCH LINE 20+50

PLOT DATE = Fri, Dec 30 09:40:38 2005  
 PLOT SCALE = 20.0000 / IN.  
 USER NAME = regina1

	= WORK ZONE
	= TRAFFIC SIGNAL
	= INDUCTION LOOP DETECTOR
	= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

**NOTE:**

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321 & ALL BITUMINOUS SHOULDER SHALL BE CONSTRUCTED PRIOR TO STAGE 1

REVISIONS	
NAME	DATE

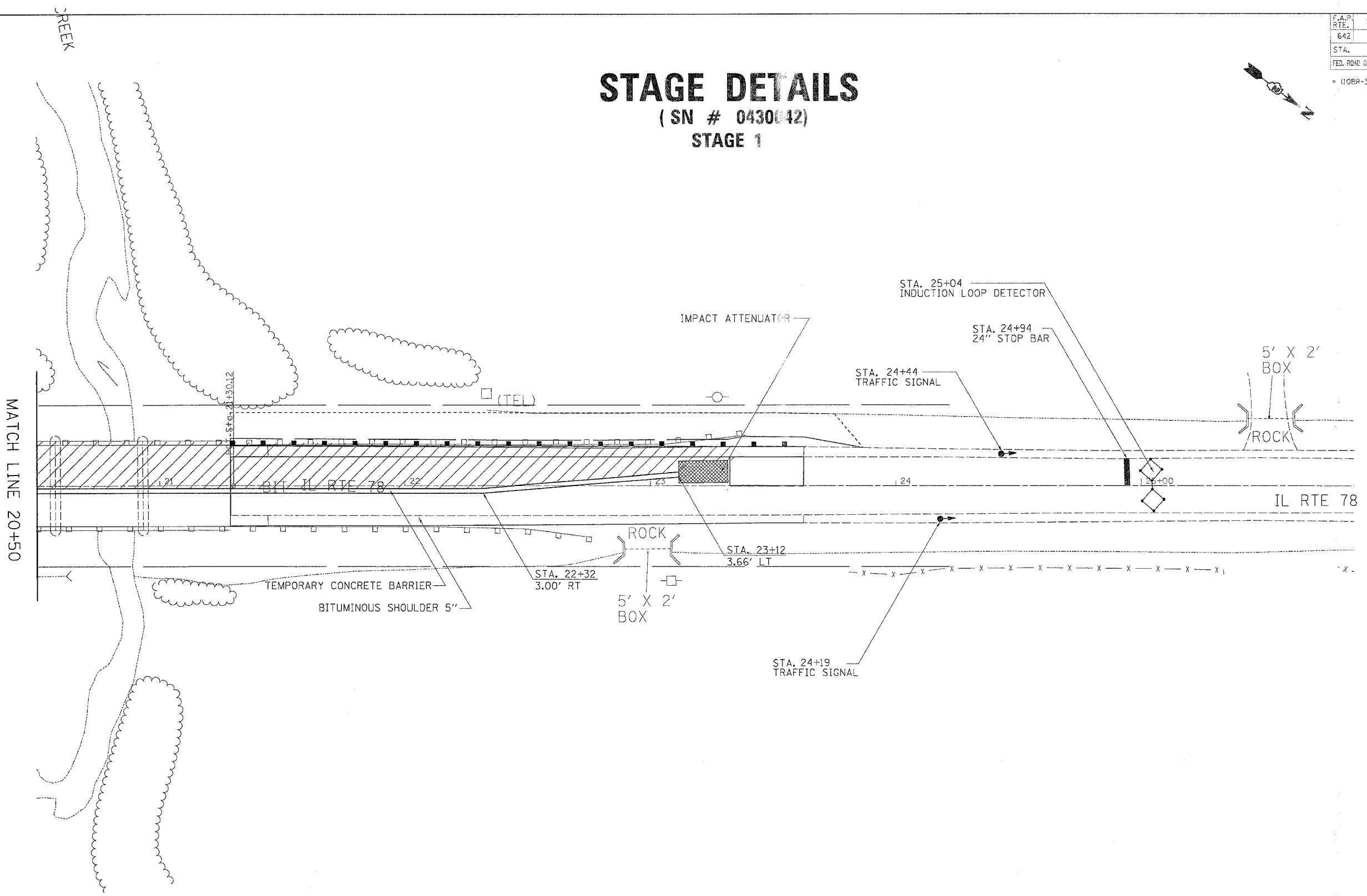
ILLINOIS DEPARTMENT OF TRANSPORTATION	
SCALE: VERT. HORIZ.	DRAWN BY
DATE	CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

(10BR-310 & 11BR-8)

# STAGE DETAILS

(SN # 0430042)  
STAGE 1



PLOT DATE = Fri Dec 30 09:52:38 2005  
 PLOT NAME = C:\p0430042\stage1.dgn  
 PLOT SCALE = 20.00000 / IN.  
 USER NAME = regnar1

	= WORK ZONE
	= TRAFFIC SIGNAL
	= INDUCTION LOOP DETECTOR
	= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

**NOTE:**  
 THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321 & ALL BITUMINOUS SHOULDER SHALL BE CONSTRUCTED PRIOR TO STAGE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

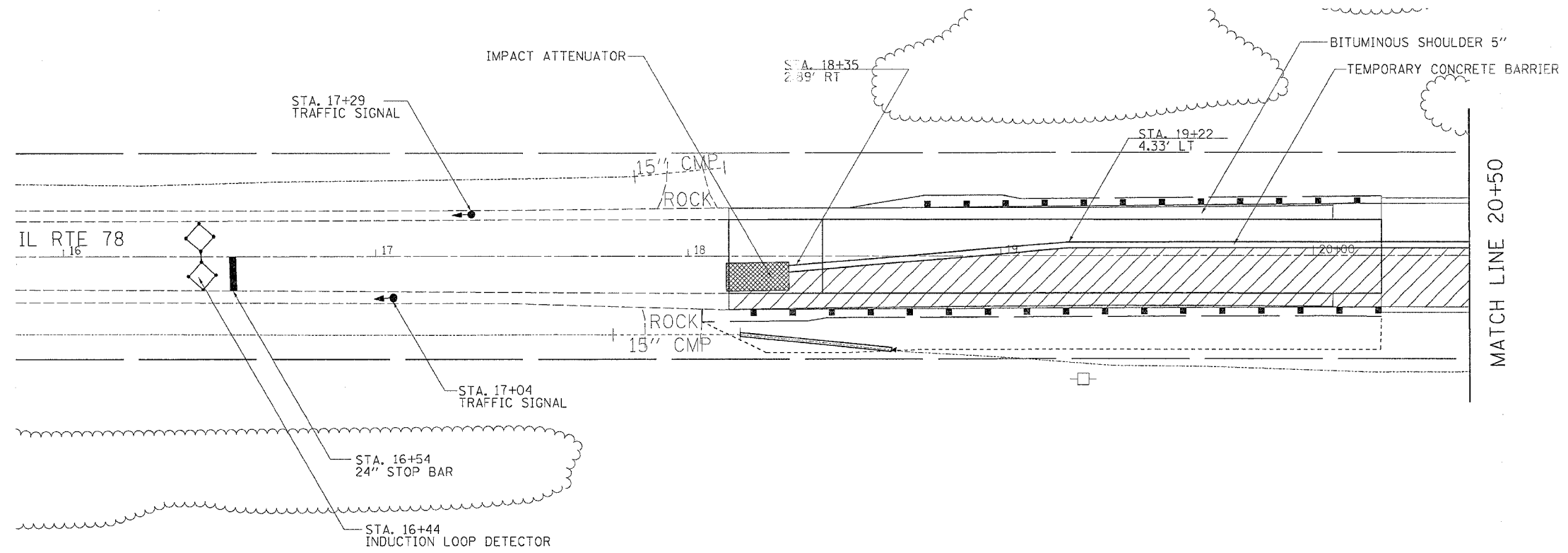
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 CHECKED BY \_\_\_\_\_

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

110BR-31D & 11BR-8





# STAGE DETAILS

(SN # 0430042)  
STAGE 2



MATCH LINE 20+50

PLOT DATE = Fri, Dec 30 09:50:23 AM 2005  
 PLOT NAME = I:\Roads\0430042\stage2.dgn  
 PLOT SCALE = 20.0000 / IN.  
 USER NAME = reynard1

-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

**NOTE:**  
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321 & ALL BITUMINOUS SHOULDER SHALL BE CONSTRUCTED PRIOR TO STAGE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

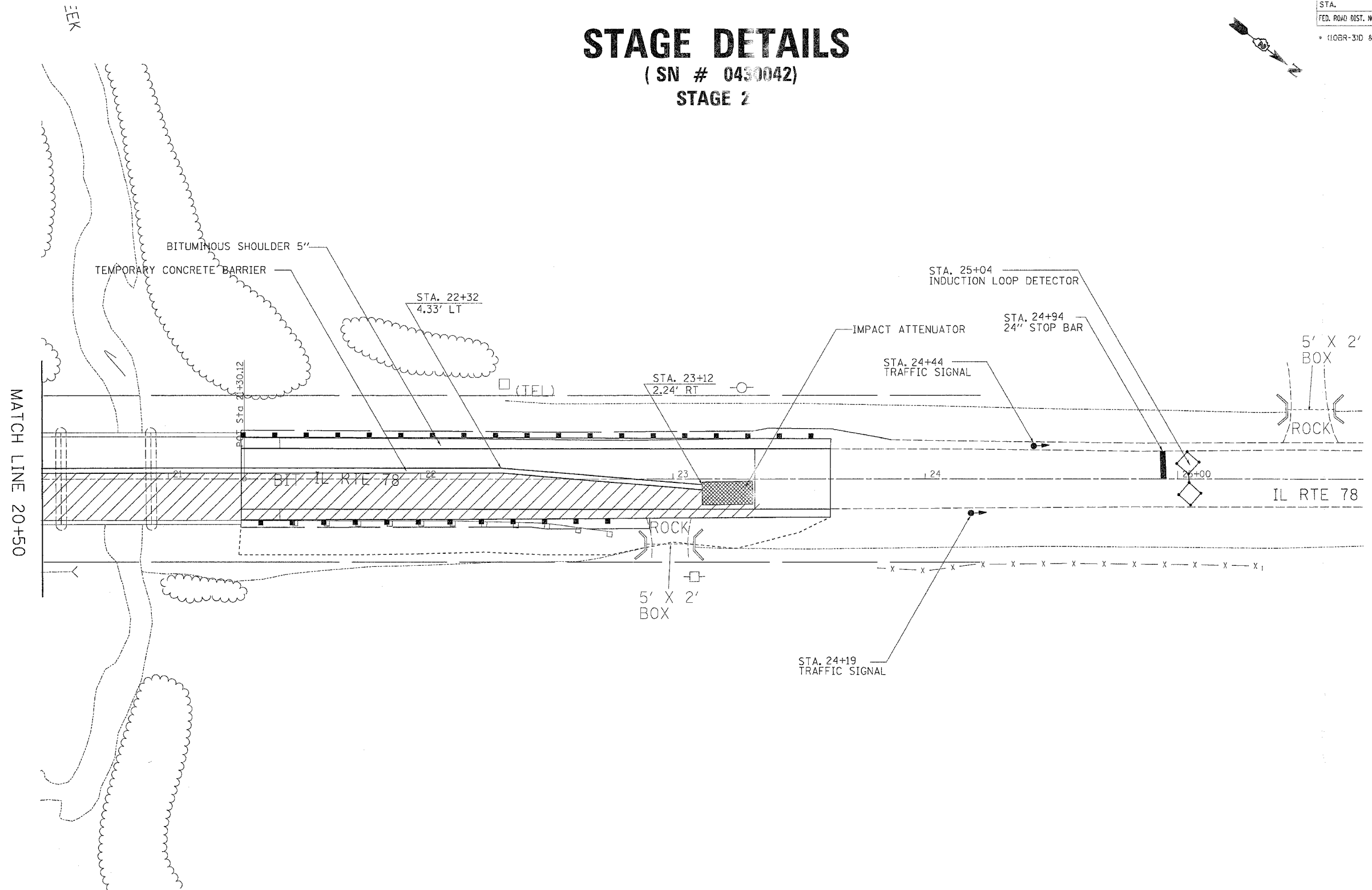






F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (10BR-3)D & 11BR-8

# STAGE DETAILS

( SN # 0430042 )  
STAGE 2



-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

PLT DATE = Fri Dec 30 09:02:38 2005  
 FILE = I:\projects\64b27\stage2.dgn  
 PLOT SCALE = 20,0000 / IN.  
 USER NAME = rajpant

**NOTE:**  
 THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321 & ALL BITUMINOUS SHOULDER SHALL BE CONSTRUCTED PRIOR TO STAGE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

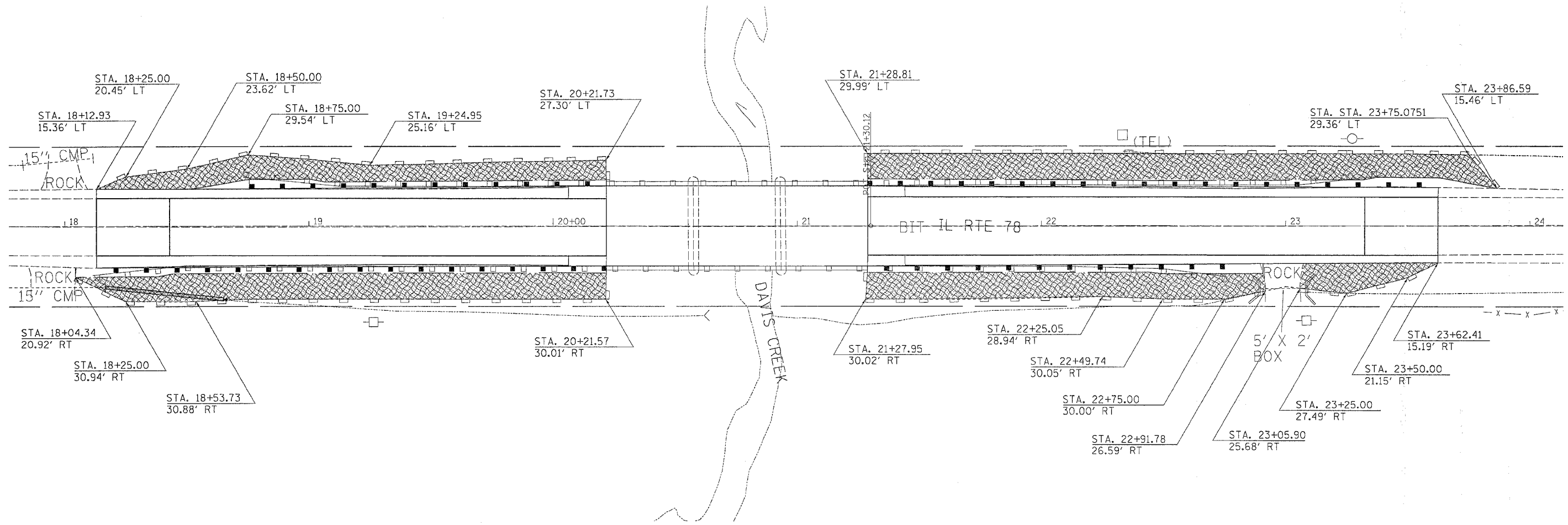
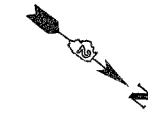
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 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	42	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• (10BR-31D & 11BR-8)

## EROSION CONTROL DETAILS (SN # 043-0042) DAVIS CREEK



### LEGEND

- = SEEDING
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

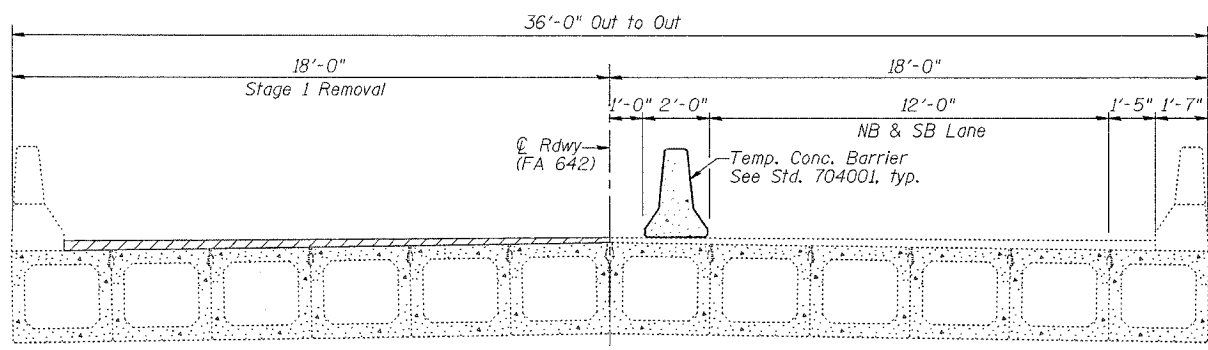
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 USER NAME = jgibson1



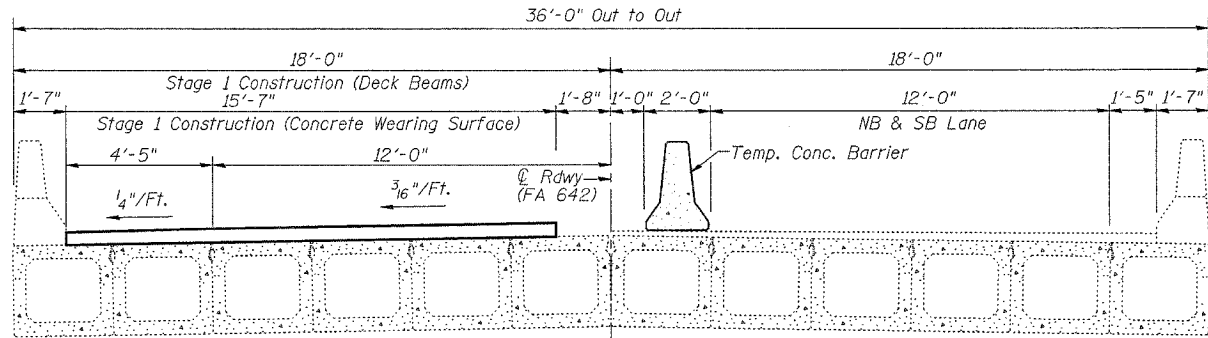
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	20
FED. ROAD DIST. NO. 7		TALSMEN	FED. AID PROJECT-	

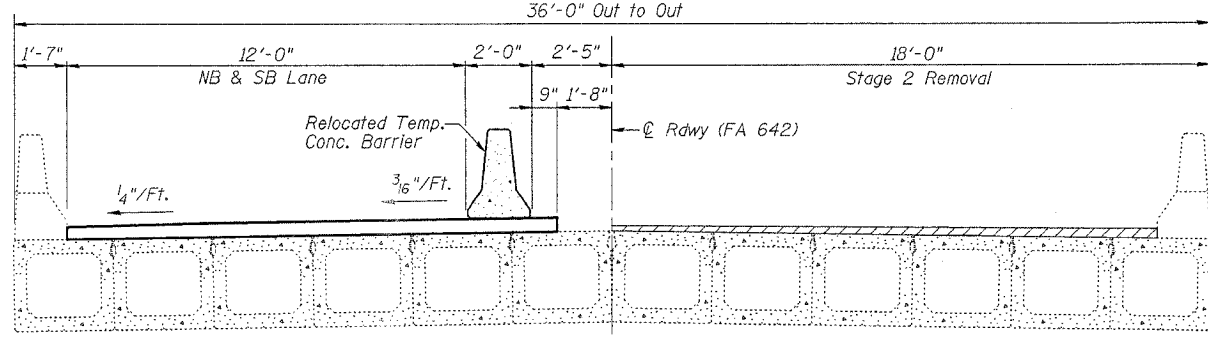
Contract # 64B27



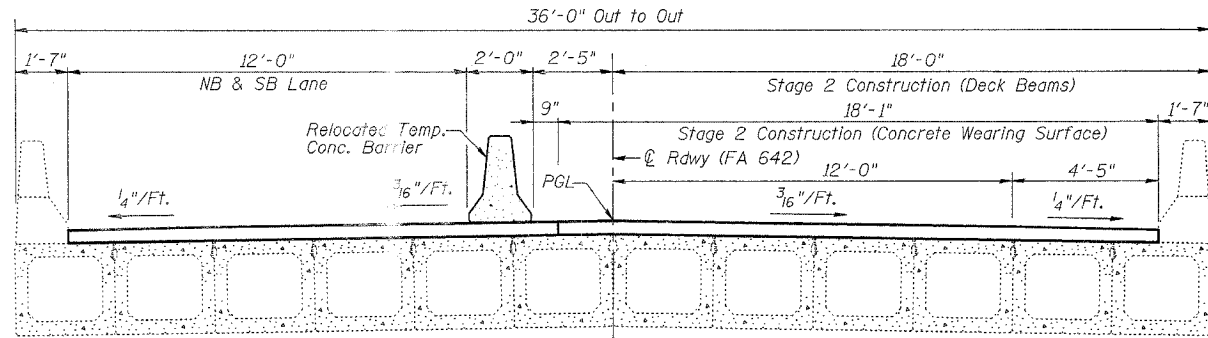
STAGE 1 REMOVAL



STAGE 1 CONSTRUCTION



STAGE 2 REMOVAL



STAGE 2 CONSTRUCTION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.  
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.  
All construction joint shall be bonded.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber. No in-stream work will be allowed on this project.  
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.  
If the contractor's procedure involves placement of cranes or other heavy equipment on existing superstructure, detailed procedure shall be submitted to the Engineer for approval.

CONSTRUCTION STAGING

1. Hatched area indicate removal of existing bituminous surface.
2. See Roadway plans for quantity of Temporary Concrete Barriers.
3. All sections taken looking North.

CONSTRUCTION STAGING

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3)D & 11BR-8  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

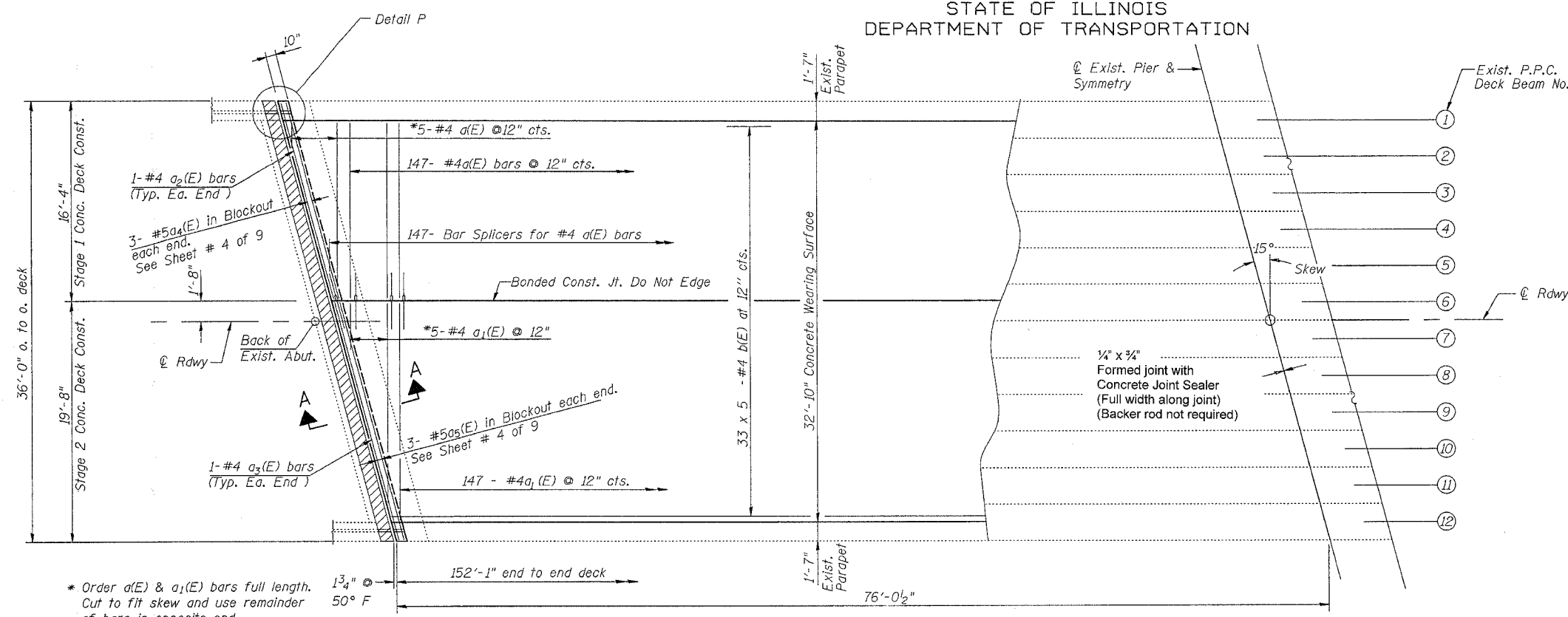
DESIGNED	JPM	200
CHECKED	EMM	EXAMINED
DRAWN	JPM	PASSED
CHECKED	EMM	ENGINEER OF BRIDGES AND STRUCTURES

11/22/2015 11:58:07 AM \\sdc\p\m\river\sheet\FILE\PLUMRIVER\CONSTR\64b27.dwg

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

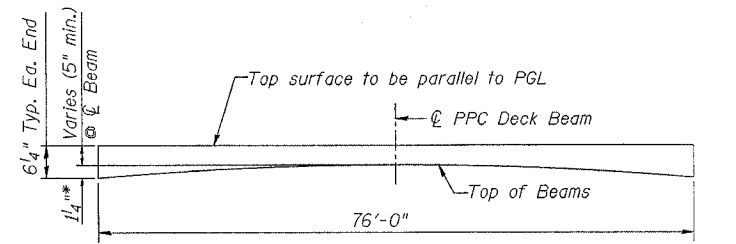
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract # 64B27



CONCRETE WEARING SURFACE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	152	#4	14'-7"	---
a1(E)	152	#4	17'-11"	---
a2(E)	2	#4	15'-2"	---
a3(E)	2	#4	18'-7"	---
a4(E)	6	#5	16'-9"	---
a5(E)	6	#5	20'-2"	---
b(E)	175	#4	31'-9"	---
Reinforcement Bars, Epoxy Coated			Pound	7290
Concrete Wearing Surface			Sq. Yd.	548.5
Protective Coat			Sq. Yd.	566



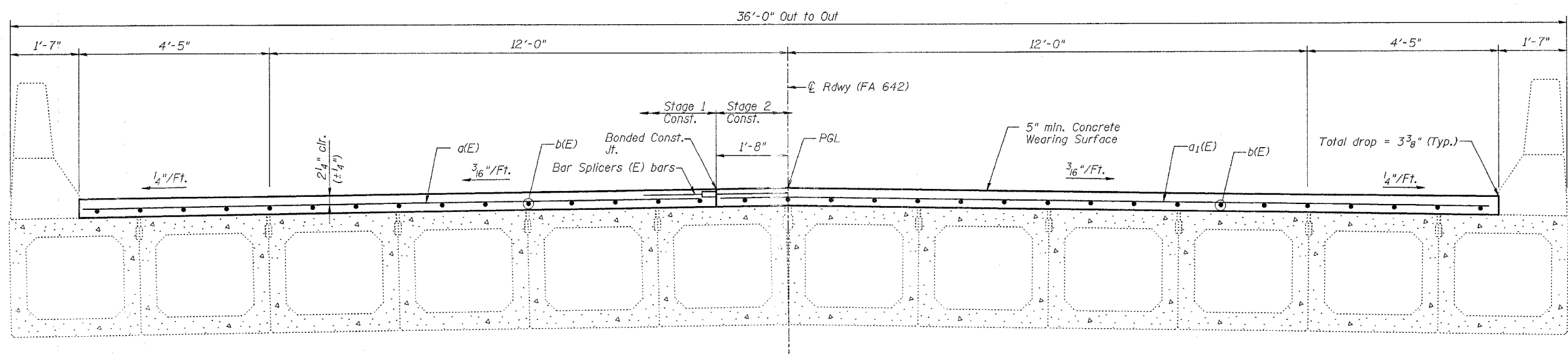
REINFORCED CONCRETE WEARING SURFACE PROFILE

\* Theoretical camber to be field verified

SHOWING CONCRETE WEARING SURFACE REINFORCEMENT

HALF PLAN

SHOWING PPC DECK BEAMS



- Notes:
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Bars indicated thus 33 x 5-#4 etc. Indicates 33 lines of bars with 5 lengths per line.
  3. For Section A-A, See Sheet # 8 of 9.
  4. For Detail P, See Sheet # 4 of 9.
  5. For location of Floor Drain with extension, See Sheet # 1 of 9. For Details, see Sheet # 4 of 9.

SUPERSTRUCTURE PLAN

DESIGNED JPM	200
CHECKED EMM	EXAMINED
DRAWN JPM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

CROSS SECTION  
(Looking North)

MIN. BAR LAP

- #4 bar - 1'-8"
- #5 bar - 2'-2"

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

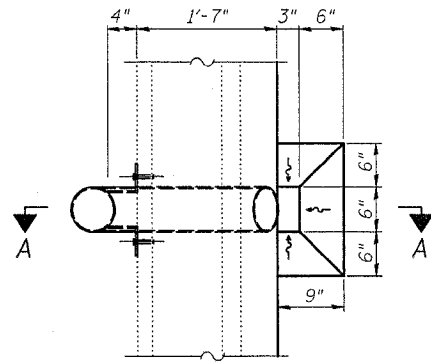
DATE : 12-21-05

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 12/23/2005  
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 11/18/02 JM  
 12/23/2005

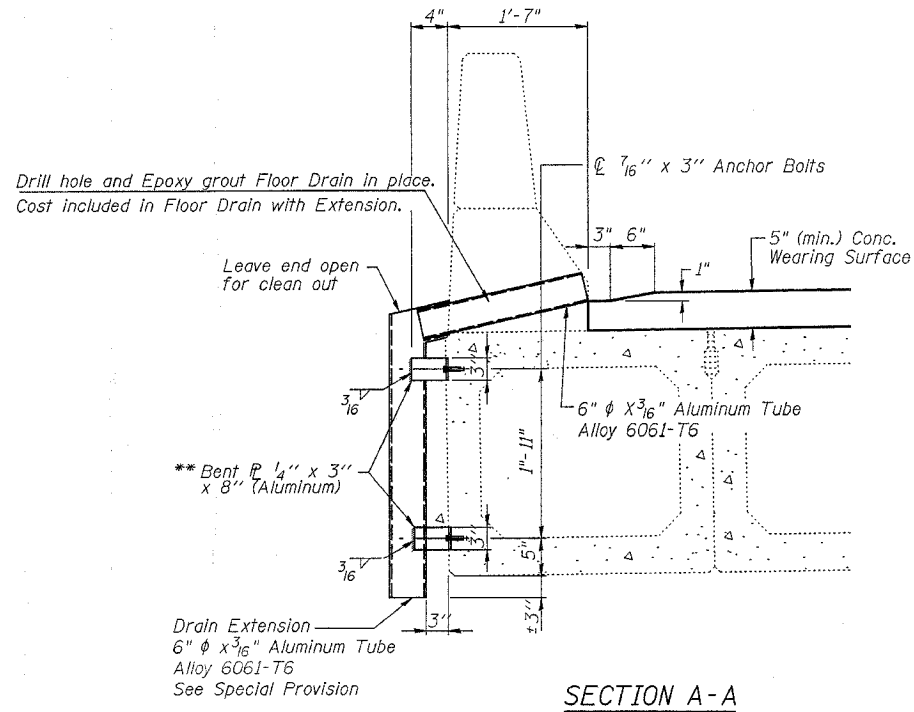
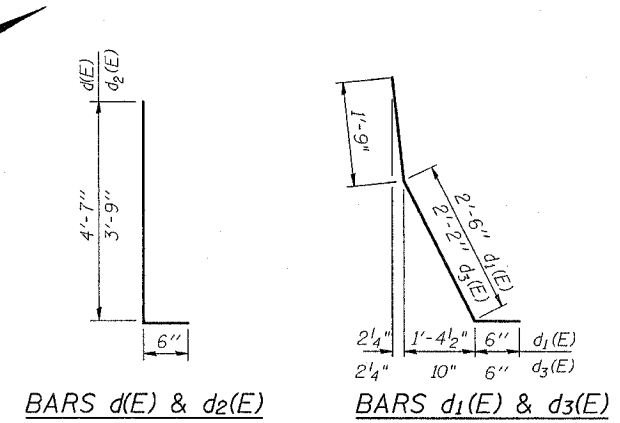
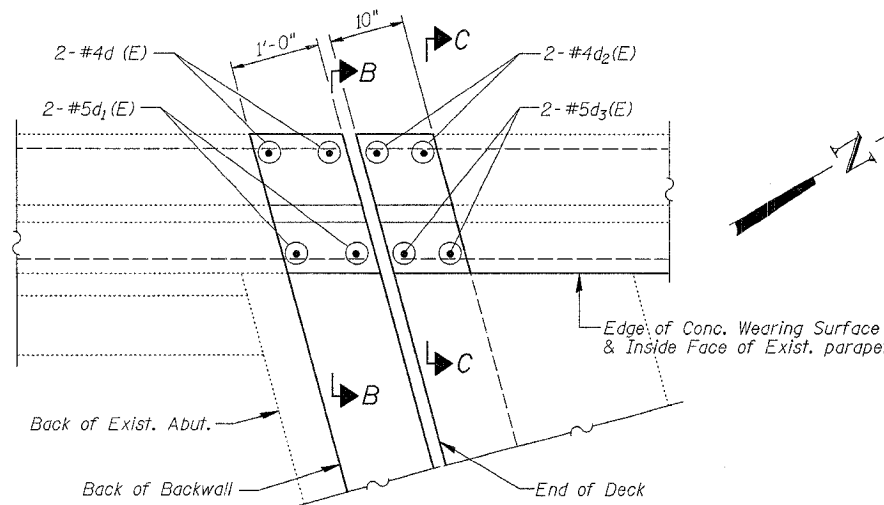
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	POST	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	22	9
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

Contract # 64B27

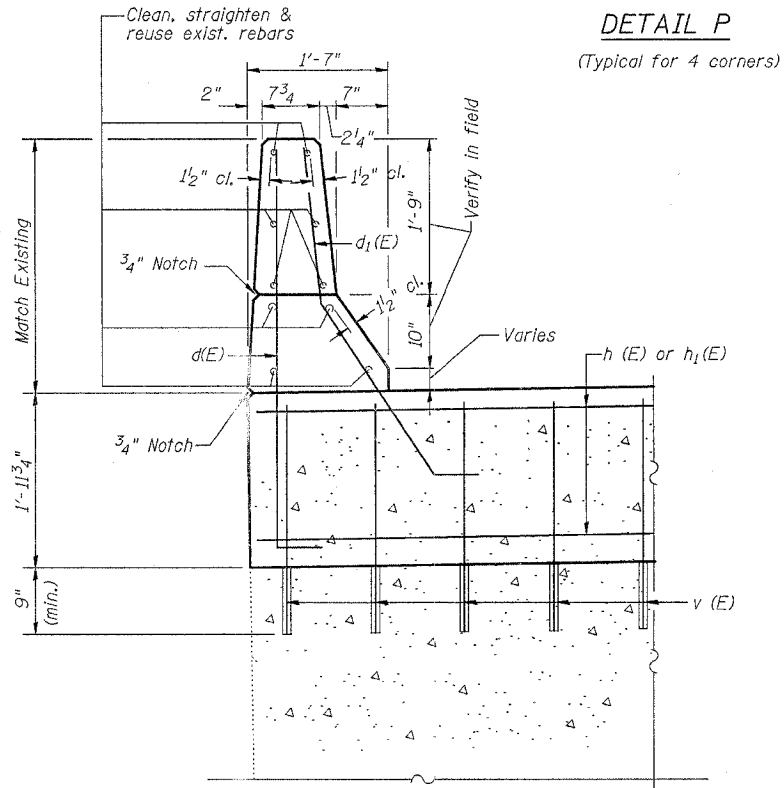


PLAN VIEW AT DRAIN

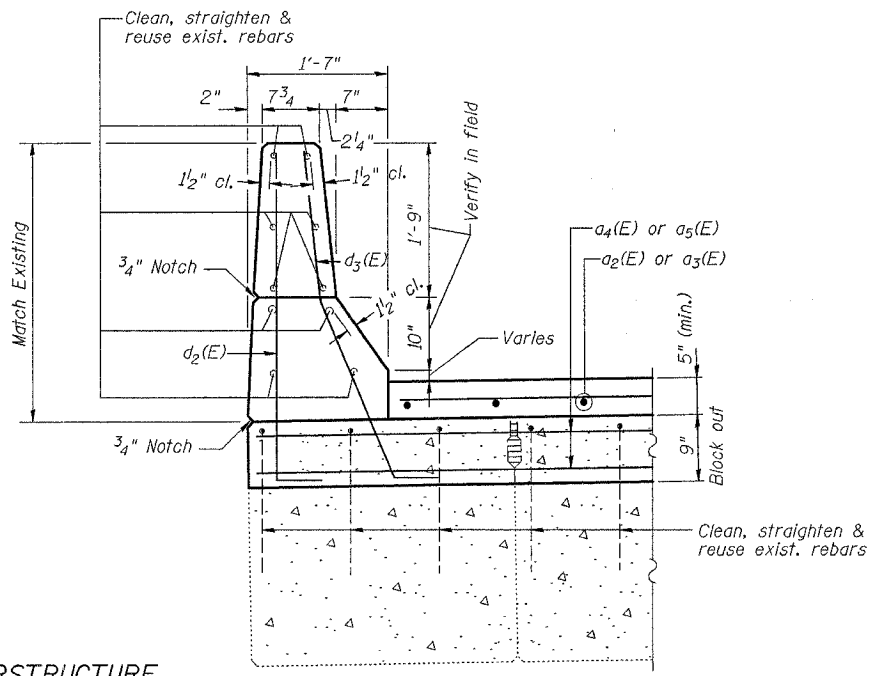


SECTION A-A

\*\* Prestressing strands located at 1 3/4", 3 1/4", 6" and 9" from bottom of beam. Contractor must ensure no damage is done to the strands



SECTION B-B



SECTION C-C

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d2(E)	4	#4	4'-3"	┌
d3(E)	4	#5	4'-5"	┌
* Concrete Superstructures			Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated			Pound	60
Floor Drain with Extension			Each	8
* Concrete Removal			Cu. Yd.	2.1

\* Includes parapet over deck and deck beam block out

SUPERSTRUCTURE DETAILS - 1

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3)D & 11BR-8  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

DESIGNED JPM	200
CHECKED EMM	EXAMINED
DRAWN JPM	PASSED
CHECKED EMM	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

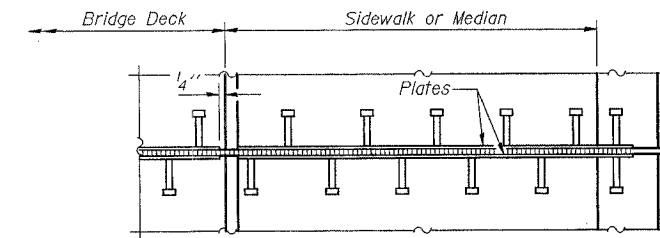
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 5 9 SHEETS
78	10BR-3D & 11BR-8	JO DAVIESS	45	23	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 64B27

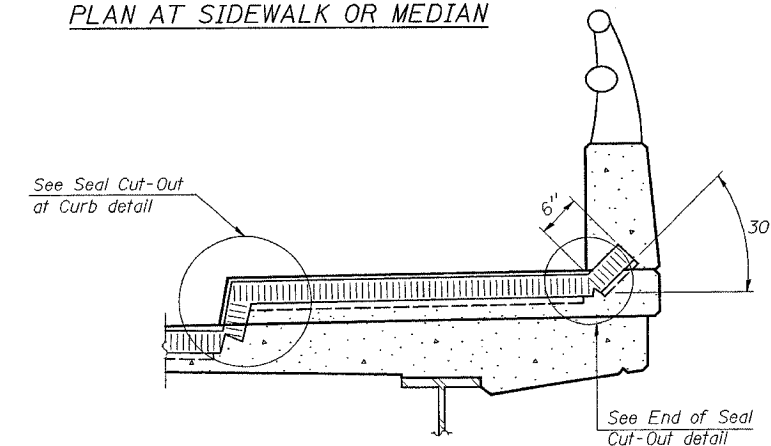
GENERAL NOTES

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3/16". Seal space with silicone sealant suitable for structural steel.

Bridge Joint System (Expansion)		
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	2 1/2"	1"
1 5/8"	4"	2"



PLAN AT SIDEWALK OR MEDIAN



AT SIDEWALK OR MEDIAN\*  
(Showing plate and seal)

\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

BILL OF MATERIAL

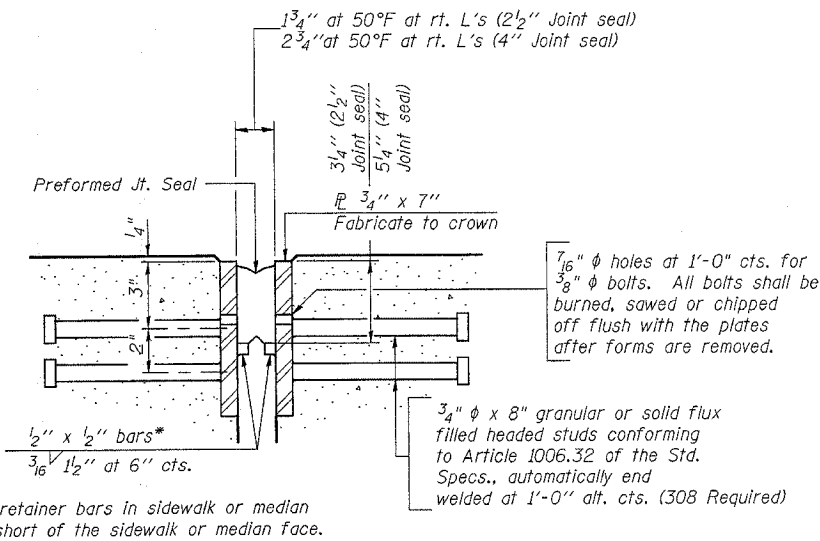
Item	Unit	Total
Bridge Joint System (Expansion) - 1"	foot	74.6

(Sheet 1 of 2)

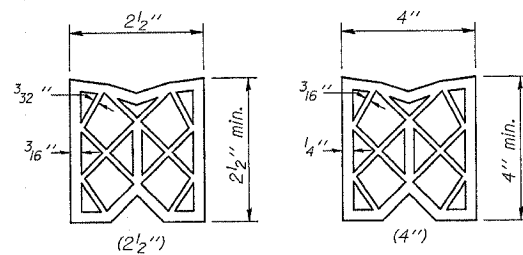
BRIDGE JOINT SYSTEM - EXPANSION  
(PREFORMED JOINT SEAL)

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 318+36.71.00  
STRUCTURE NUMBER 043-0040

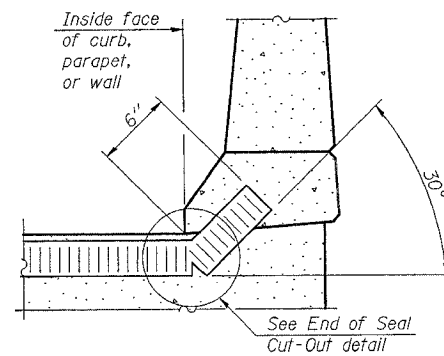
DATE : 12-21-05



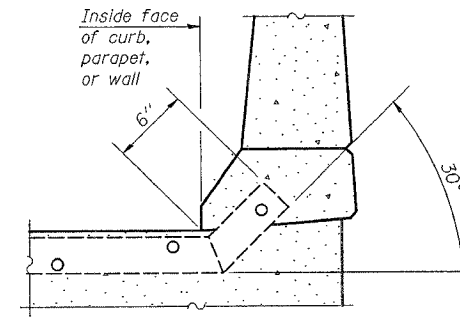
SECTION THRU EXPANSION JOINT  
(2 1/2" and 4" joint seals)



PREFORMED JOINT SEAL

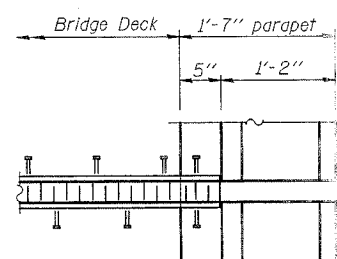


AT CURB, PARAPET, OR WALL  
(Showing seal)

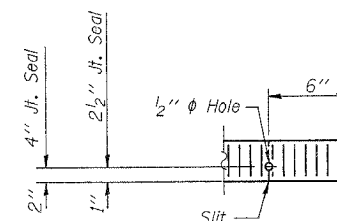


AT CURB, PARAPET, OR WALL  
(Showing plate)

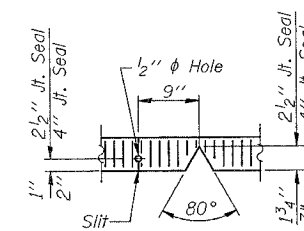
TYPICAL END TREATMENTS



PLAN AT PARAPET



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB

DESIGNED	JPM
CHECKED	EMM
DRAWN	JPM
CHECKED	EMM

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

EJ-BJS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	24
FED. ROAD DIST. NO. 7	SUBDIVISION	FED. AID PROJECT		

SHEET NO. 6  
9 SHEETS

Contract # 64B27

**GENERAL NOTES**

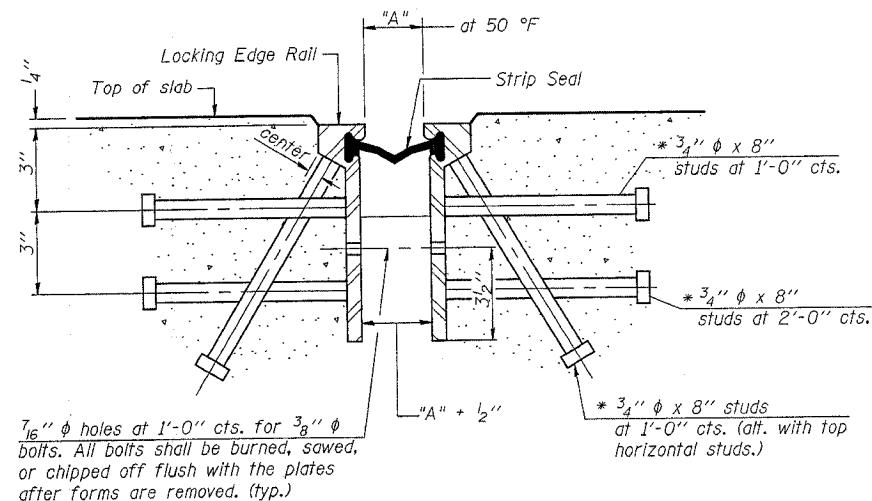
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

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.

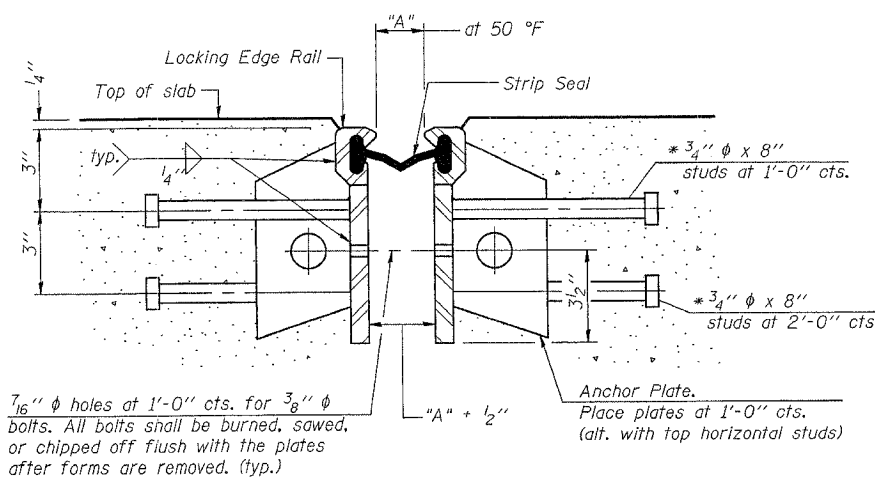
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.



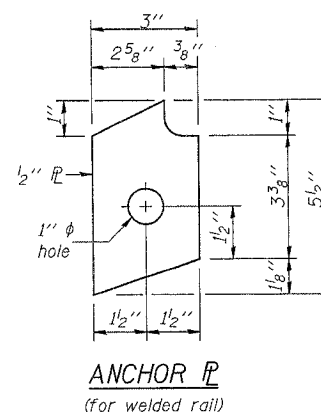
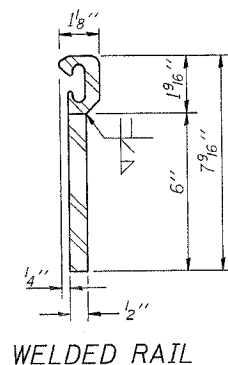
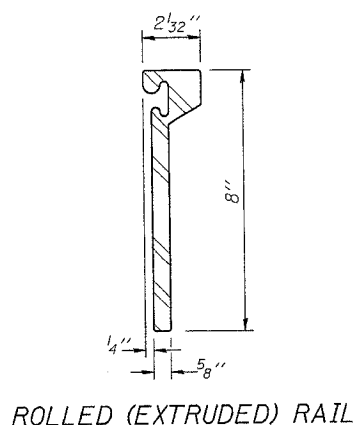
Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"



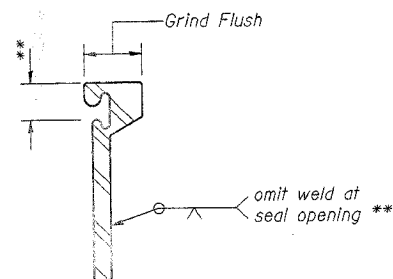
**SECTION THRU ROLLED RAIL EXP. JOINT**  
(392 Studs Required)

**SECTION THRU WELDED RAIL EXP. JOINT**  
(236 Studs Required)  
(156 Anchor Plates Required)

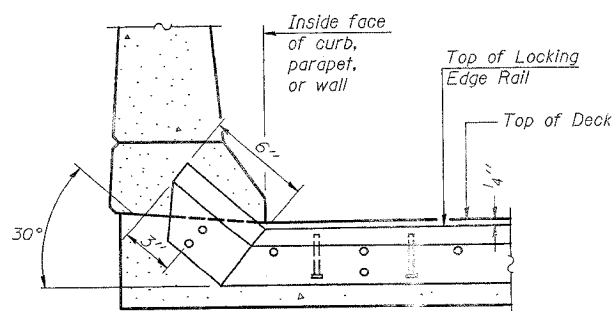
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



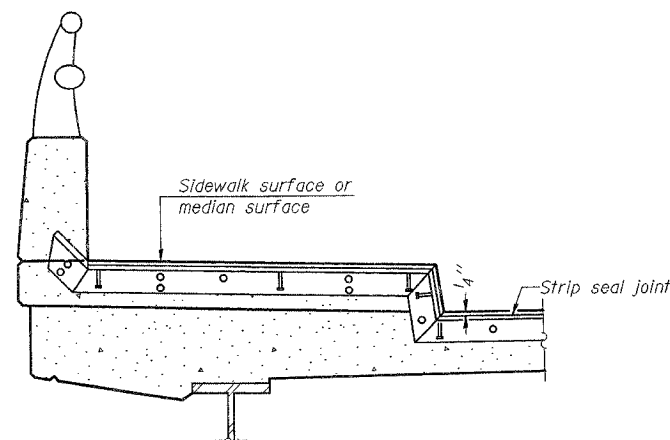
**LOCKING EDGE RAILS**



**LOCKING EDGE RAIL SPLICE**  
The inside of the locking edge rail groove shall be free of weld residue.



**AT CURB, PARAPET, OR WALL**



**AT SIDEWALK OR MEDIAN\***

**TYPICAL END TREATMENTS**

\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

(Sheet 2 of 2)  
**BRIDGE JOINT SYSTEM - EXPANSION**  
(ALTERNATE-STRIP SEAL)

**IL. RTE. 78 OVER**  
**PLUM RIVER**  
**F.A. 642 SECTION (10BR-3)D & 11BR-8**  
**JO DAVIESS COUNTY**  
**STA. 318+36.71**  
**STRUCTURE NUMBER 043-0040**

DATE : 12-21-05

DESIGNED	JPM		200
CHECKED	EMM	EXAMINED	ENGINEER OF BRIDGE DESIGN
DRAWN	JPM	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	EMM		

EJ-BJS

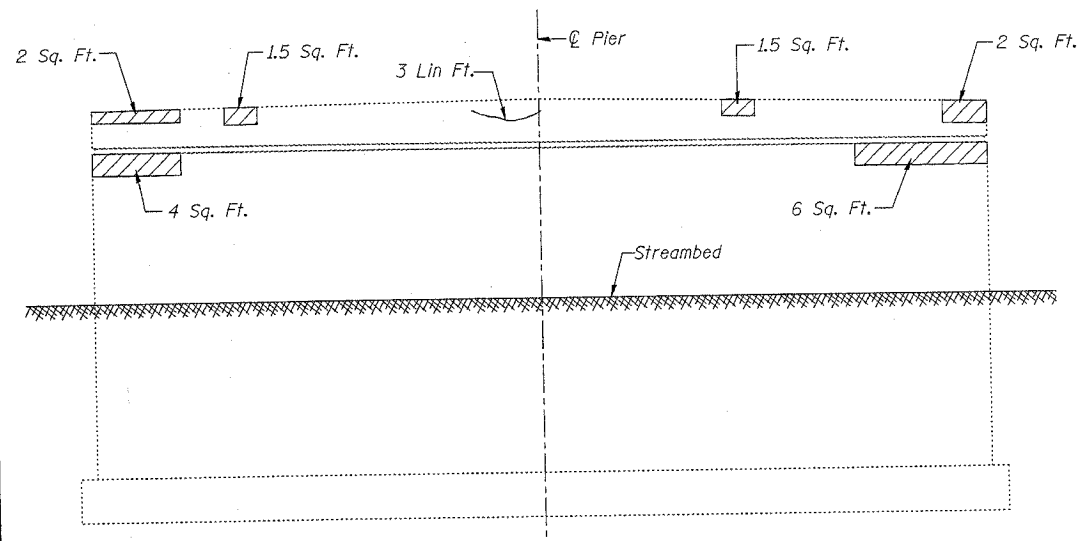


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

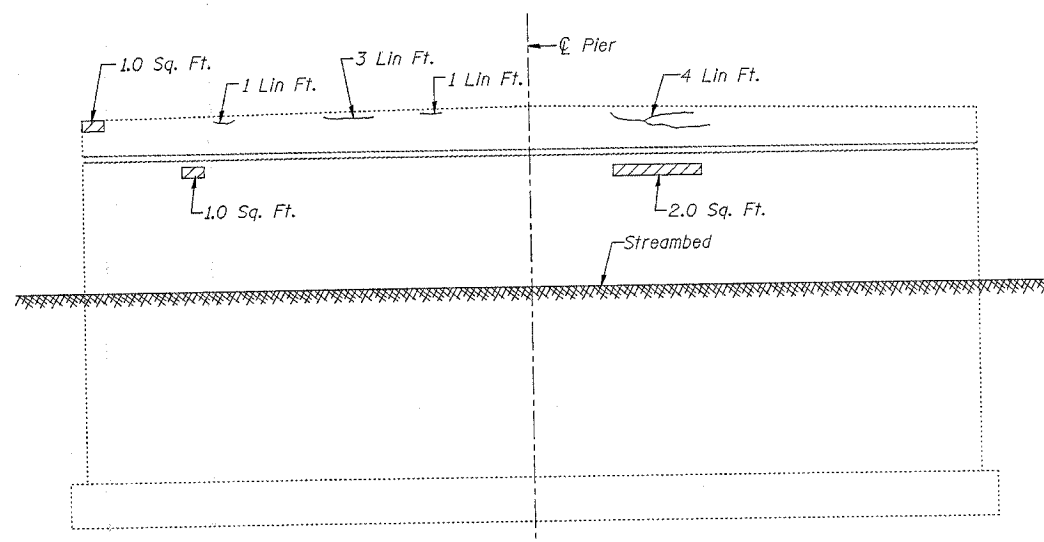
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	25
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7  
9 SHEETS

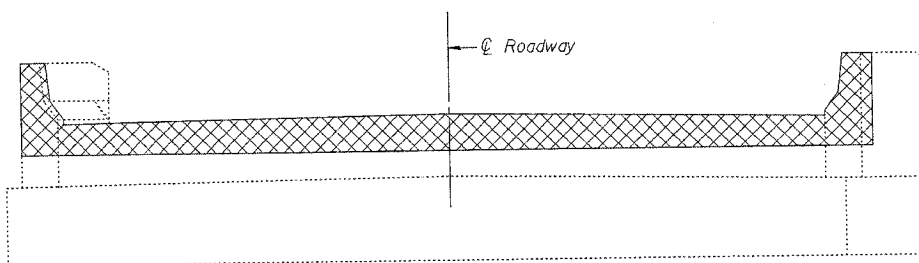
Contract # 64B27



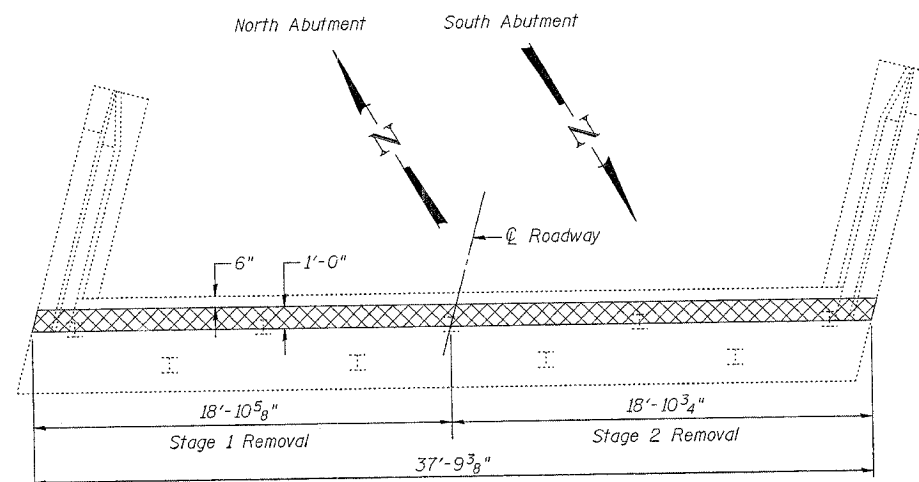
PIER SOUTH FACE ELEVATION



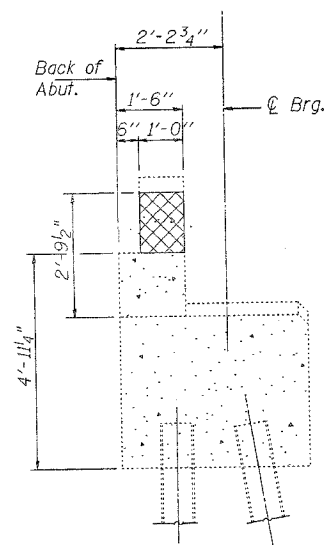
PIER NORTH FACE ELEVATION



ABUTMENT ELEVATION



ABUTMENT PLAN



SEC. THRU ABUT.

LEGEND

- Concrete Removal
- Delaminated and/or Spalling Concrete to be repaired as Formed Concrete Repair (D>5")
- Leaching Crack - No work required

DESIGNED	JPM
CHECKED	EMM
DRAWN	JPM
CHECKED	EMM

200	
EXAMINED	ENGINEER OF BRIDGE DESIGN
PASSED	ENGINEER OF BRIDGES AND STRUCTURES

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	6.0
Formed Concrete Repair (D > 5")	Sq. Ft.	21.0

SUBSTRUCTURE CONCRETE  
REMOVAL, REPAIR & DETAILS

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3D) & 11BR-8  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

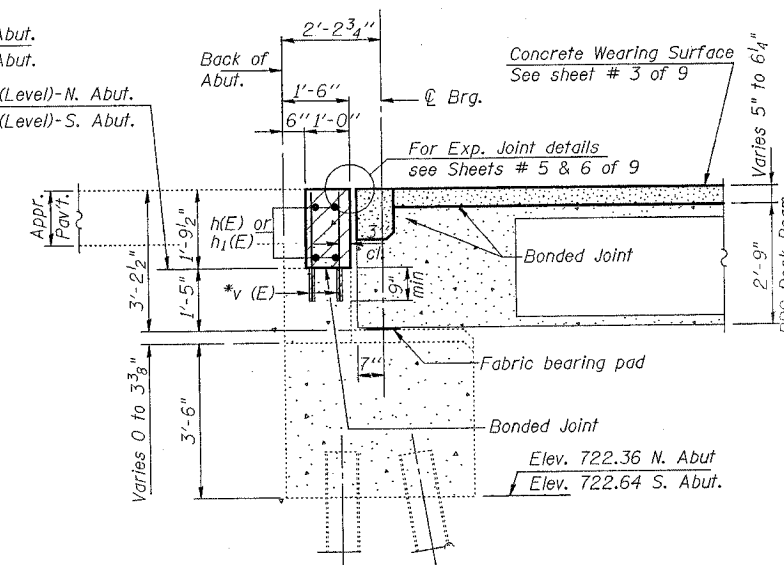
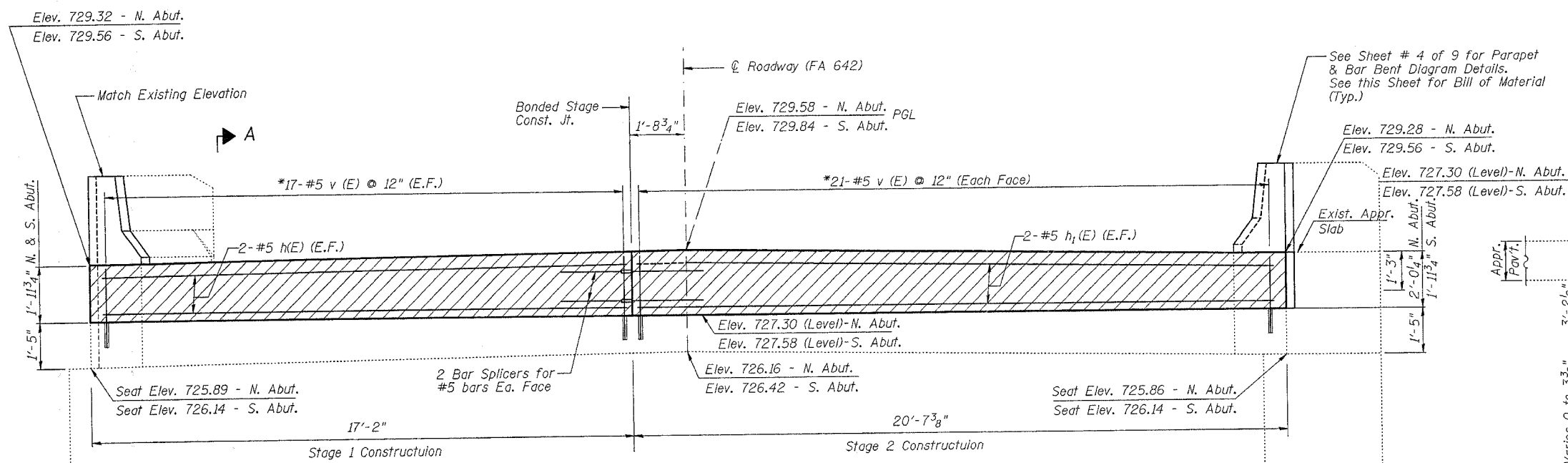
DATE : 12-21-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	26
FED. ROAD DIST. NO. Y	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8  
9 SHEETS

Contract # 64B27

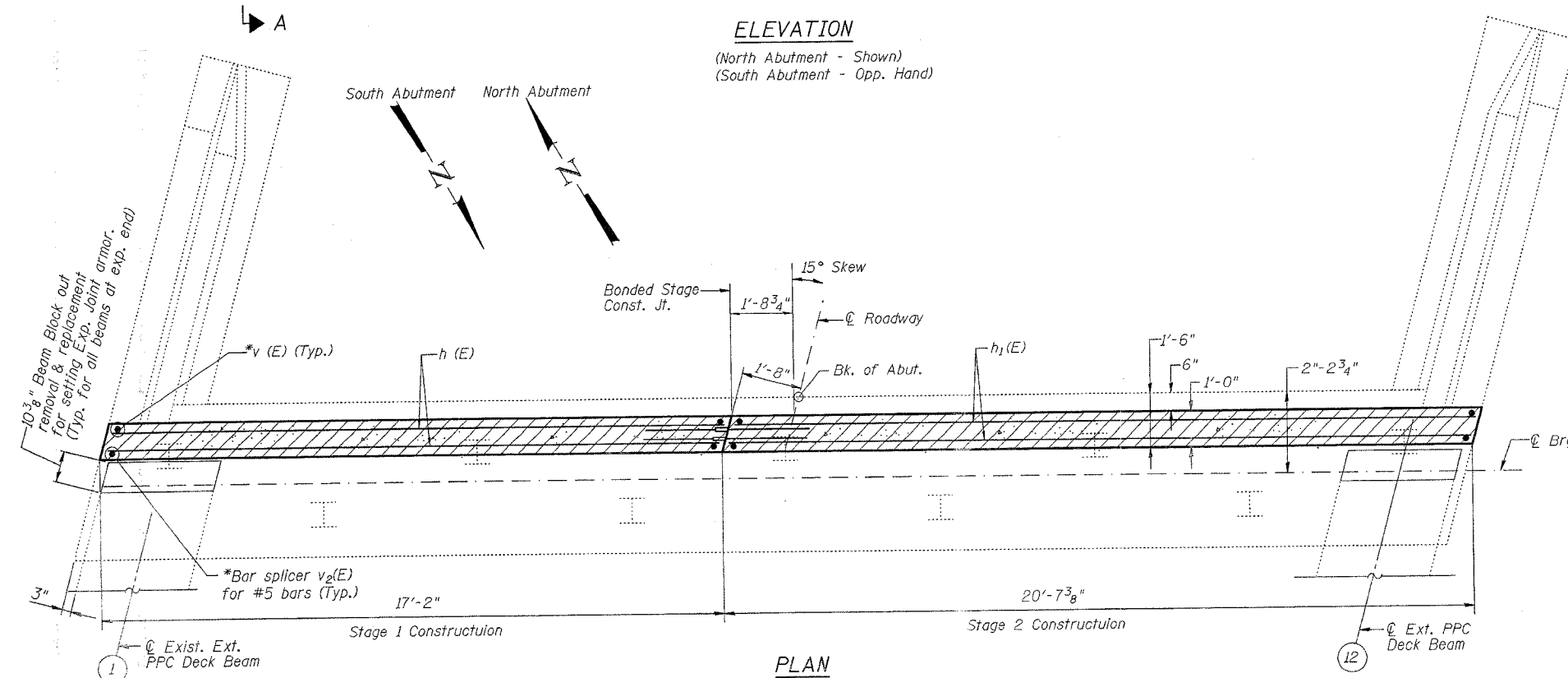


SECTION A-A

• Rt. Angle

Notes:  
All horizontal dimensions are at right angles to beam ends.  
Hatched area to be poured after concrete wearing surface is in place.  
See Sheet 5 of 10 for bearing pad details.

ELEVATION  
(North Abutment - Shown)  
(South Abutment - Opp. Hand)



PLAN  
(North Abutment - Shown)  
(South Abutment - Rotate 180°)

ONE ABUTMENT  
BILL OF MATERIAL

Bar No.	Size	Length	Shape
h(E)	4 #5	17'-6"	—
h1(E)	4 #5	20'-6"	—
d(E)	4 #4	5'-1"	—
d1(E)	4 #5	4'-9"	—
* v(E)	76 #5	2'-5"	—
Concrete Structures	Cu. Yd.	3.2	
** Reinforcement Bars, Epoxy Coated	Pound	390	

\*\* Includes backwall and parapet over backwall  
Reinforcement bars designated (E) shall be epoxy coated.  
For details of Bar Splicers, see sheet 9 of 9.

ABUTMENT DETAILS

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-3)D & 11BR-8  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

Notes:  
Hatched area shall be poured after Concrete Wearing Surface (including blockout) is in place and cured.  
Cost of temporary retainers and accessories are included with Precast Prestressed Concrete Deck Beams.(33" Depth.)  
\*Epoxy grout v(E), v1(E), and Bar Splicer v2(E) bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

DESIGNED JPM	200
CHECKED EMM	EXAMINED
DRAWN JPM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-31D & 11BR-8	JO DAVIESS	45	27
FED. ROAD DIST. NO. 7	BALANCE	FED. AID PROJECT		

Contract # 64B27

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $1.25 \times f_{s_{allow}} \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{s_{allow}}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is the same as the diameter of the bar spliced.

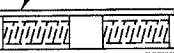
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

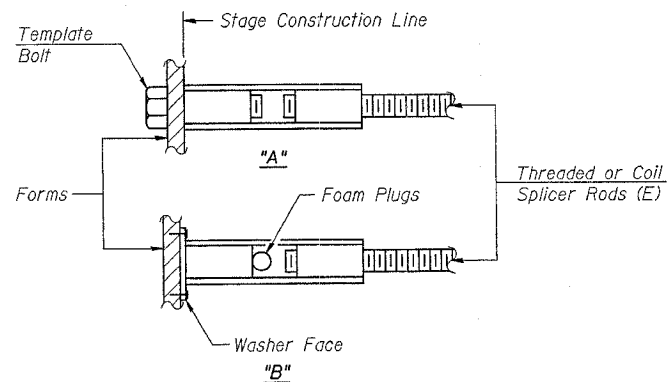
Wire Connector



WELDED SECTIONS

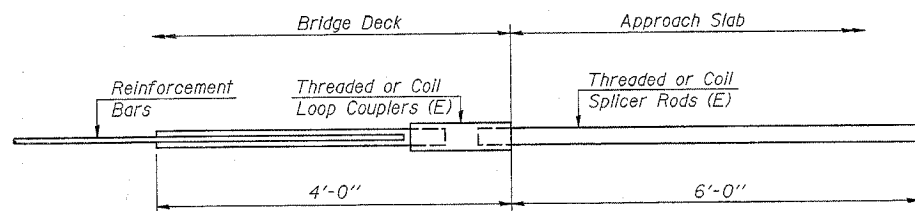
BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



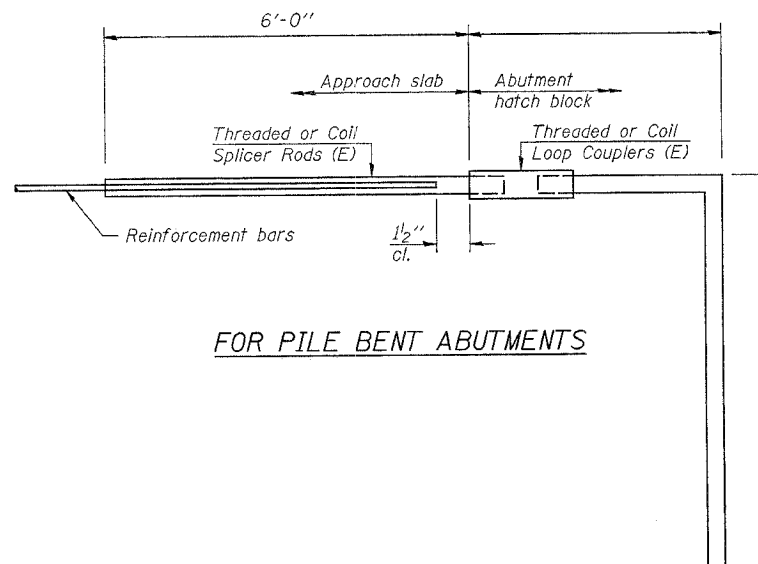
INSTALLATION AND SETTING METHODS

"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.



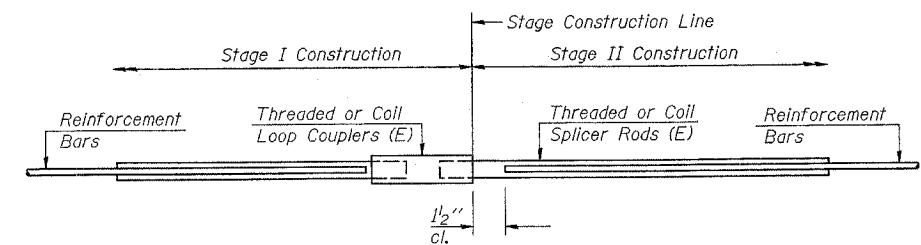
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	70



STANDARD

Bar Size	No. Assemblies Required	Location
#4	147	Deck
#5	6	Deck Bm Blockout
#5	4	South Abutment
#5	4	North Abutment

BAR SPLICER ASSEMBLY DETAILS

IL. RTE. 78 OVER  
PLUM RIVER  
F.A. 642 SECTION (10BR-31D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 318+36.71  
STRUCTURE NUMBER 043-0040

DESIGNED JPM	200
CHECKED EMM	EXAMINED
DRAWN JPM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

DATE : 12-21-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 1
78	10BR-3D & 11BR-8	JO DAVIESS	45	28	12 SHEETS
FED. ROAD DIST. NO. 7	HAZARD	FED. AID PROJECT-			

Contract # 64B27

**BENCH MARK**

Chiseled "□" on top of N.W. concrete wing wall (near North end) on Bridge 11-BR-6, Sta. 481+25\*. Elev. 647.75

Existing Structure: SN 043-0042 was built in 1982 as FA Rte 642 Section 10 BR-6 at Sta. 480+80.00

The structure consist of three simple span PPC Deck Beams on pile bent abutments and solid piers on spread footing. The back to back abutment dimension is 110'-4 3/4" while the out to out width measures 36'-0".

The existing superstructure is to be replaced with PPC Deck Beams and 5" (min.) concrete wearing surface.

Traffic is to be maintained by utilizing Stage construction. One lane of traffic for both direction will be provided.

No salvage.

\* Corresponds to Sta. 21+20.37

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu. Yd.	-	12.6	12.6
Concrete Structures	Cu. Yd.	5.4	-	5.4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	3852	-	3852
Reinforcement Bars, Epoxy Coated	Pound	5580	820	6400
Concrete Wearing Surface, 5"	Sq. Yd.	428.7	-	428.7
Bridge Deck Grooving	Sq. Yd.	409	-	409
Protective Coat	Sq. Yd.	447.0	-	447.0
Steel Bridge Rail, Type SM	Foot	214.5	-	214.5
Name Plates	Each	1	-	1
Bridge Joint System (Expansion), 1 5/8"	Foot	36	-	36
Bar Splicers	Each	111	86	197
Asbestos Bearing Pad Removal	Each	-	72	72

**LOADING HS20-44**

Allow 50#/sq. ft. for future wearing surface.

**Index of Sheets**

1. General Plan
2. Construction Staging
3. Superstructure Plan
4. Superstructure Details - 1
5. Superstructure Details - 2
6. Type SM Steel Bridge Rail Side Mounted
7. Bridge Joint System - Expansion (Preformed Joint Seal)
8. Bridge Joint System - Expansion (Alternate - Strip Seal)
9. Substructure Concrete Removal
10. South Abutment
11. North Abutment
12. Bar Splicer Assembly Details

**DESIGN SPECIFICATIONS**

2002 AASHTO

**DESIGN STRESSES**

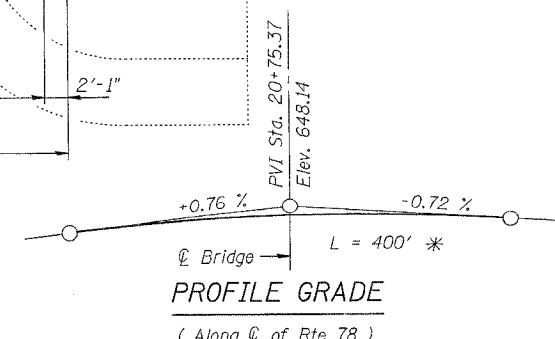
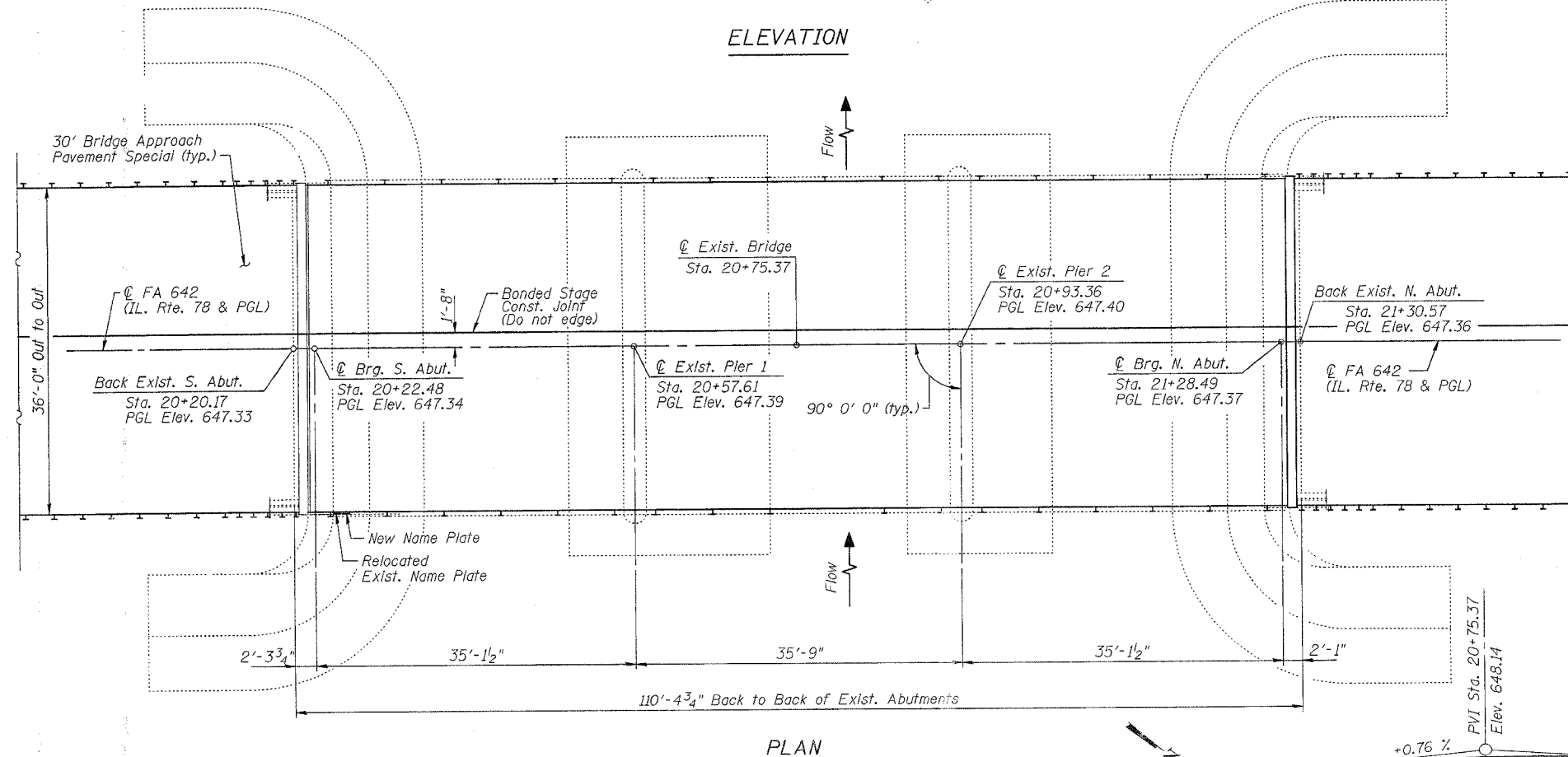
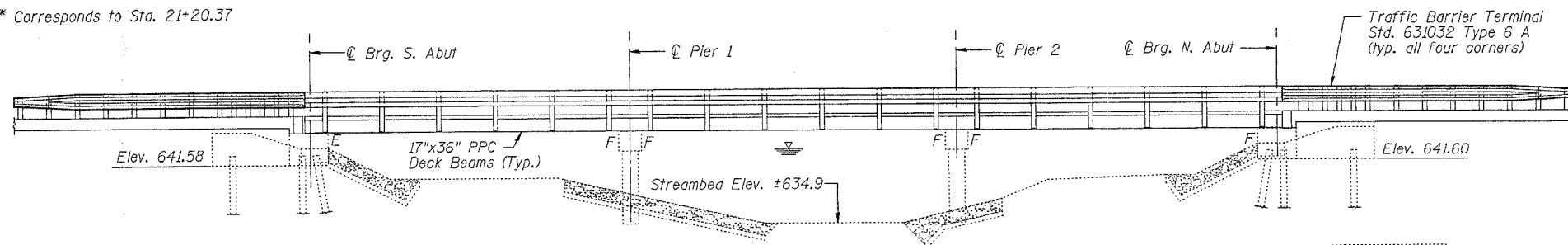
NEW & EXISTING CONSTRUCTION

**FIELD UNITS**

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

**PRECAST PRESTRESSED UNITS**

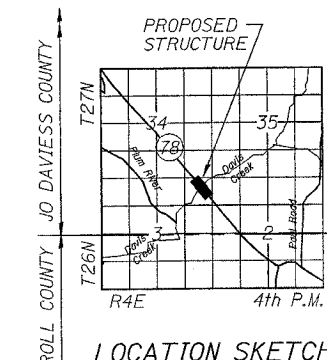
f'c = 5,000 psi  
f'ci = 4,000 psi  
f's = 270,000 psi (1/2" φ low relax strands)  
f'si = 201,960 psi (1/2" φ low relax strands)



STATION 20+75.37  
REBUILT 200\_ BY  
STATE OF ILLINOIS  
F.A. RT. 642 SEC 11BR-8  
LOADING HS20  
STR. NO. 043-0042

**NAME PLATE**

See Std. 515001  
Existing Name Plate shall be cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates.



STATE OF ILLINOIS  
EFREN M. MIRANDA  
81-3997  
CHICAGO, ILLINOIS  
LICENSED STRUCTURAL ENGINEER  
12/23/05  
EFP 11/30/06

**GENERAL PLAN**

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DESIGNED COM	200
CHECKED EMM	EXAMINED
DRAWN COM	PASSED
CHECKED EMM	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

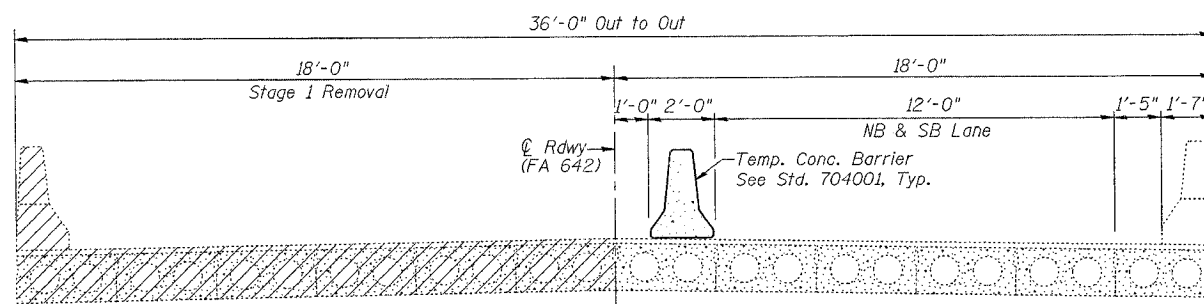
\* Vertical curve data is only valid from Sta. 20+20+17 Sta. 21+30.57 Beyond those limits, see roadway plans for bituminous taper to meet existing grades.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

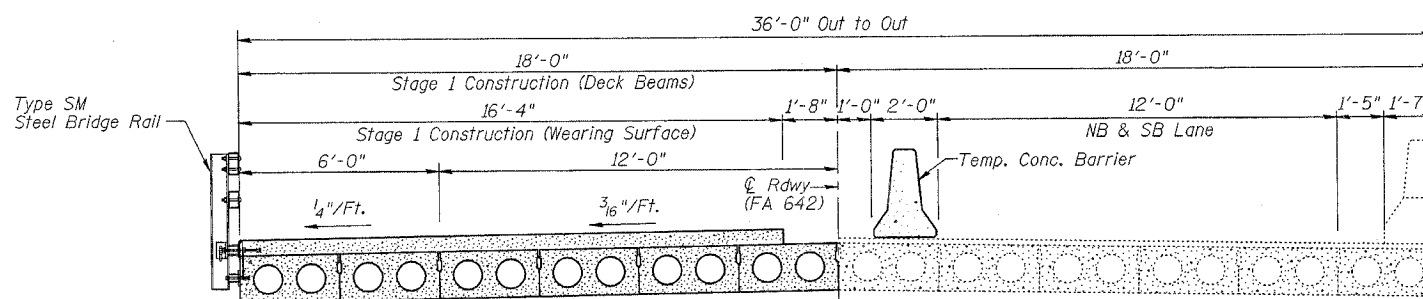
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-3/D & 11BR-B	JO DAVIESS	45	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2  
12 SHEETS

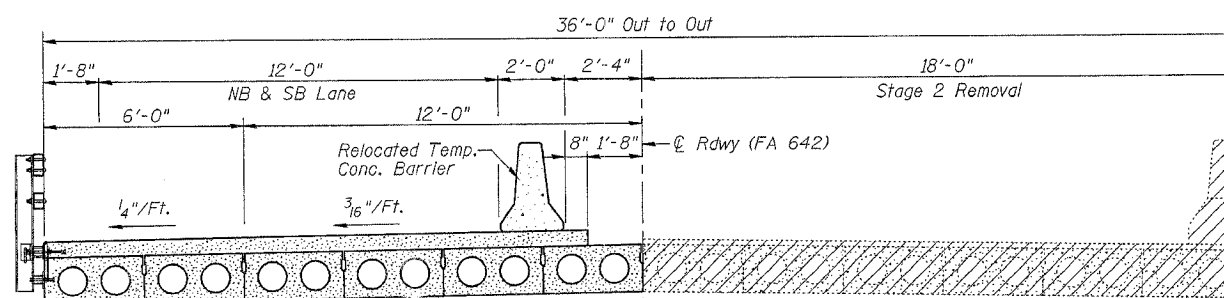
Contract # 64B27



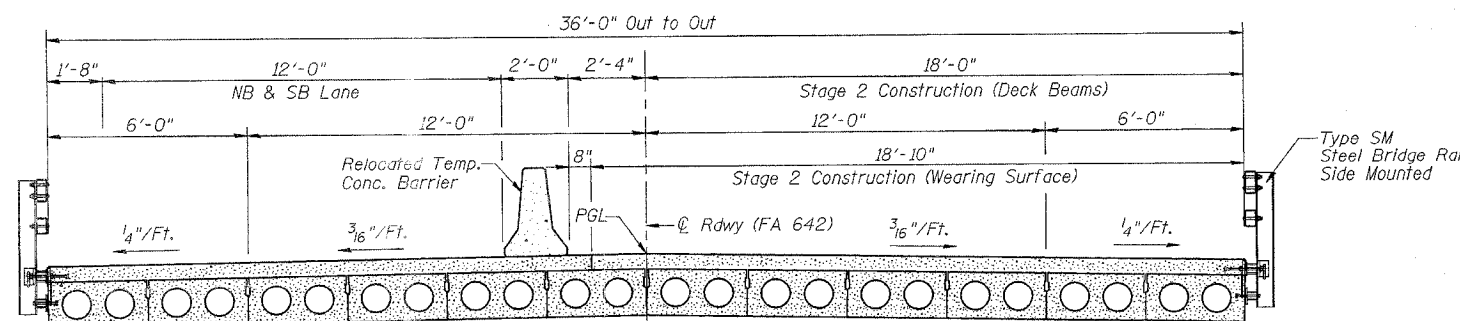
STAGE 1 REMOVAL



STAGE 1 CONSTRUCTION



STAGE 2 REMOVAL



STAGE 2 CONSTRUCTION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Existing Name Plate shall be cleaned and relocated adjacent to new Name Plate. Cost included with Name Plate.

All construction joint shall be bonded.

Repair of pier caps shall be completed prior to placement of the new deck beams.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

No instream work will be allowed on this project.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

CONSTRUCTION STAGING

1. Hatched area indicate removal of existing Superstructure.
2. See Roadway plans for quantity of Temporary Concrete Barriers.
3. All sections taken looking North.

CONSTRUCTION STAGING

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3/D & 11BR-B  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

Type SM  
Steel Bridge Rail  
Side Mounted

DESIGNED	COM
CHECKED	EMM
DRAWN	COM
CHECKED	EMM

200	EXAMINED
	PASSED

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

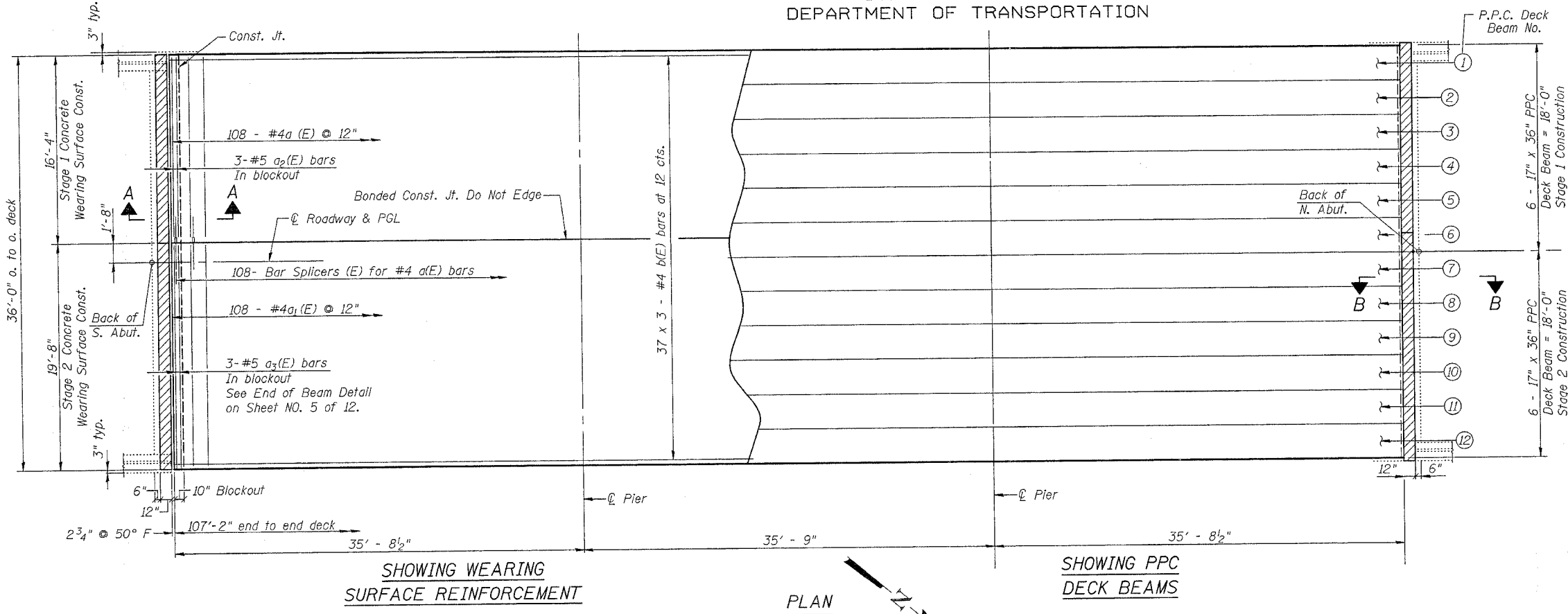
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DATE : 12-21-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	CRAFTY	TOTAL SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	30
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 64B27

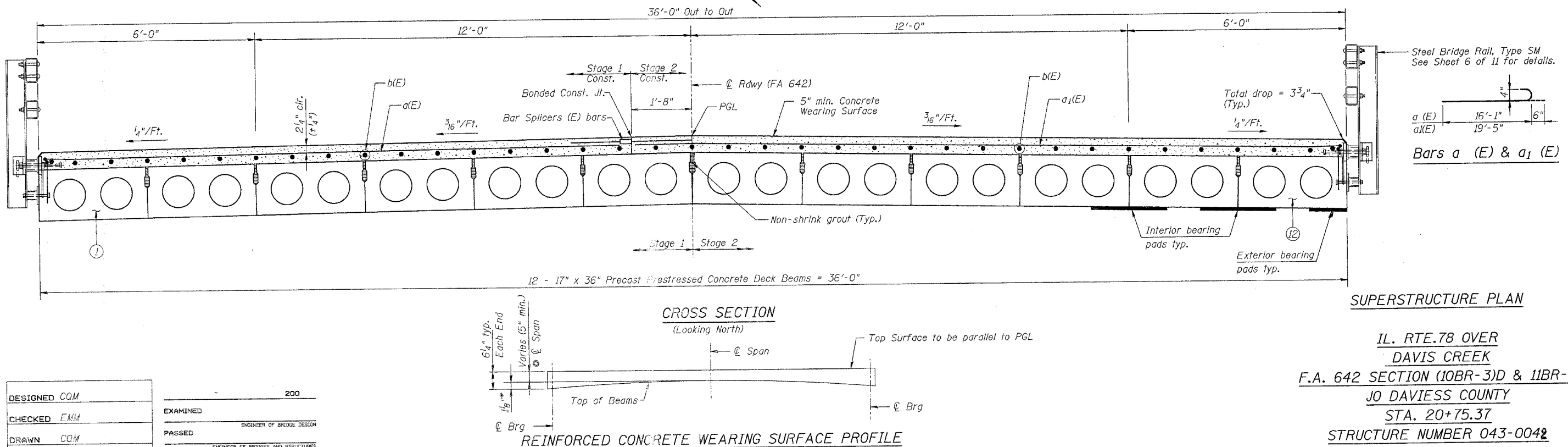


- Notes:
- Reinforcement bars designated (E) shall be epoxy coated.
  - Bars indicated thus 37 x 3-#4 etc. indicates 37 lines of bars with 3 lengths per line.
  - For PPC Deck Beam Details, see Sheet # 5 of 12.
  - For Section A-A. See Sheet # 10 of 12.
  - For Section B-B. See Sheet # 11 of 12.

**CONCRETE WEARING SURFACE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	108	#4	16'-7"	—	
a <sub>1</sub> (E)	108	#4	19'-11"	—	
a <sub>2</sub> (E)	3	#5	16'-1"	—	
a <sub>3</sub> (E)	3	#5	19'-5"	—	
b(E)	111	#4	36'-9"	—	
Reinforcement Bars, Epoxy Coated				Pound	5580
Concrete Wearing Surface				Sq. Yd.	428.7

**MIN. BAR LAP**  
#4 bar - 1'-8"  
#5 bar - 2'-2"



DESIGNED	CQM	200
CHECKED	EMM	EXAMINED
DRAWN	CQM	ENGINEER OF BRIDGE DESIGN
CHECKED	EMM	PASSED
		ENGINEER OF BRIDGES AND STRUCTURES

IL. RTE.78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DATE : 12-21-05

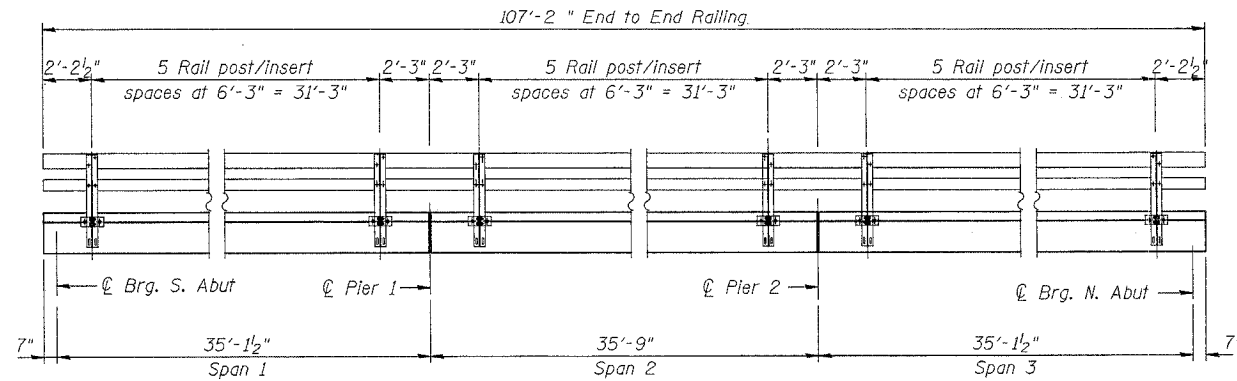
12/23/2005 10:42 AM R:\Engineering\78\PER DAVIS CREEK SHEETS FILE DAVIS BRIDGE\PLAN.DWG

\* Theoretical camber to be field verified after beams are in place.

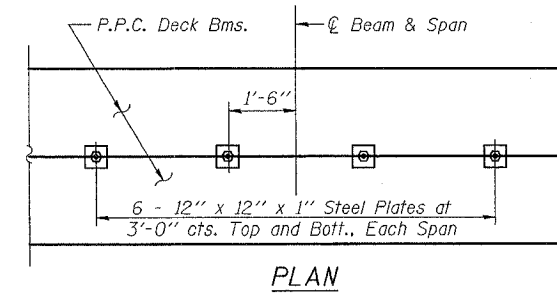
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 12 SHEETS
78	10BR-3D & 11BR-8	JO DAVIESS	45	31	
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT		

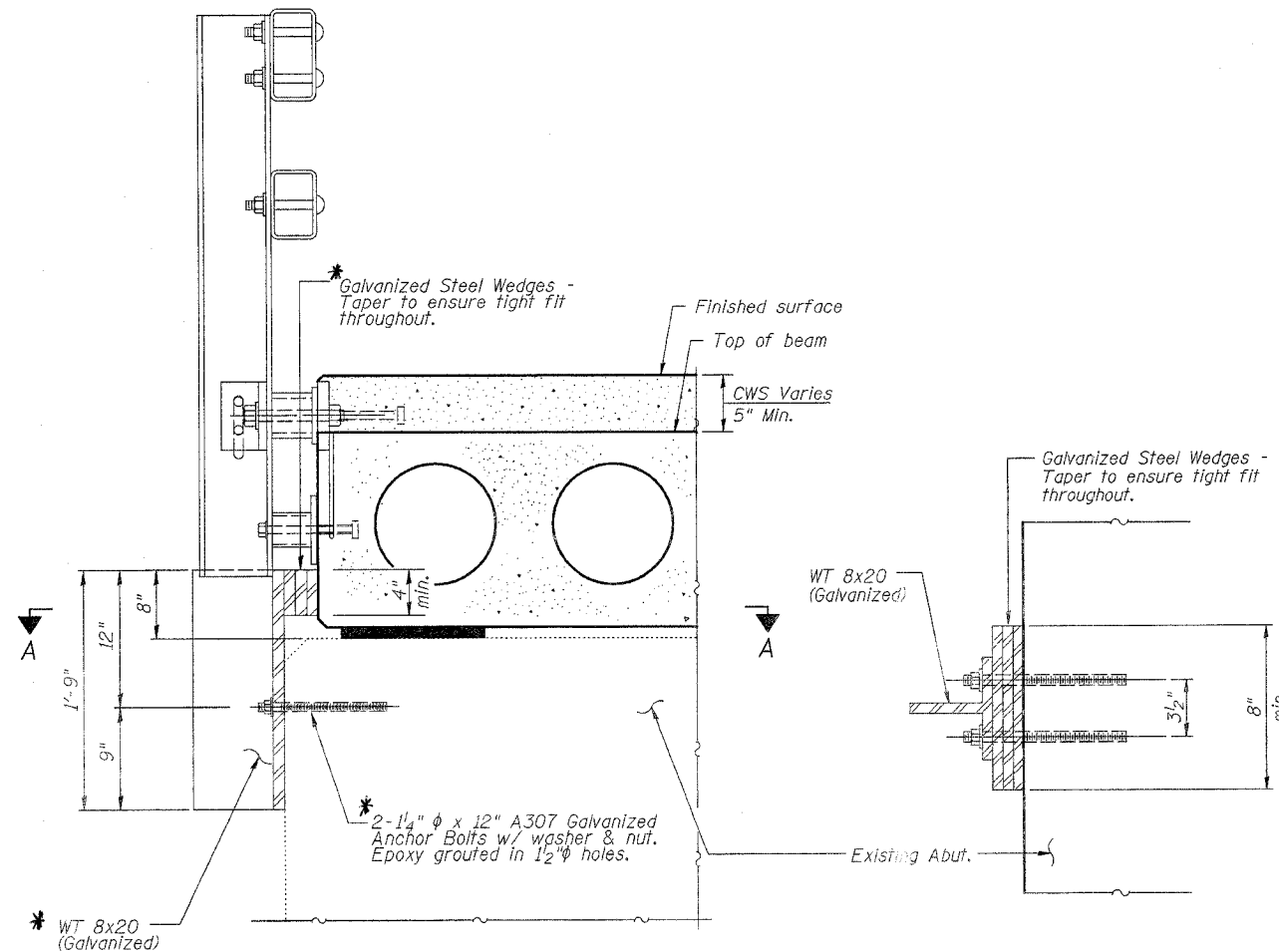
Contract # 64B27



RAIL POST SPACING

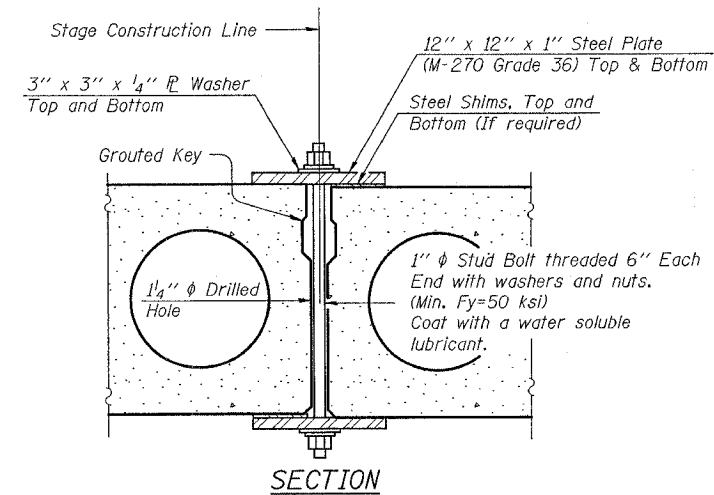


PLAN

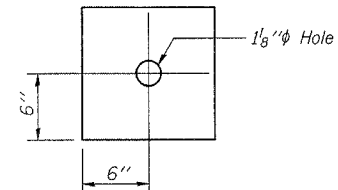


SIDE RETAINER AT SOUTH ABUTMENT

SECTION A-A



SECTION



CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See Special Provisions for Stage Construction of Precast Prestressed Concrete Deck Beams. Cost included with "Precast Prestressed Concrete Deck Beams". See Stage Construction Details for traffic lanes on Sheet 2 of 12

SUPERSTRUCTURE DETAILS - 1

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DESIGNED	COM
CHECKED	EMM
DRAWN	COM
CHECKED	EMM

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

\* AFTER THE BLOCK-OUTS ARE POURED AND CURED THE RETAINER AND SHIMS SHALL BE REMOVED. ANCHOR BOLTS SHALL BE CUT, GRIND SMOOTH AND SEALED WITH EPOXY.

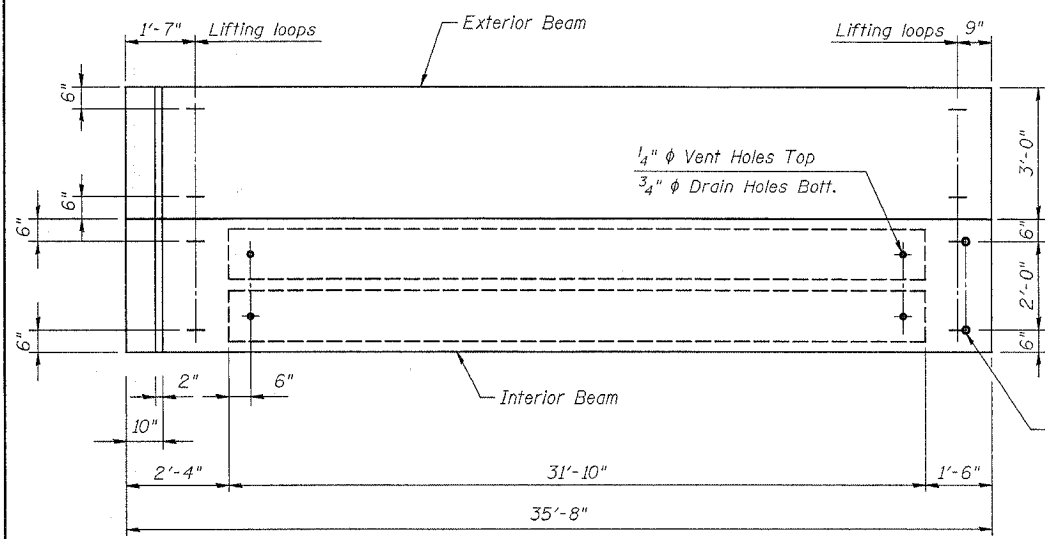
12/21/2005 10:54:42 AM K:\projects\104\10412\10412.dwg JO DAVIESS COUNTY PROJECTS FILE: JO DAVIESS COUNTY SUPERSTRUCTURE DETAILS



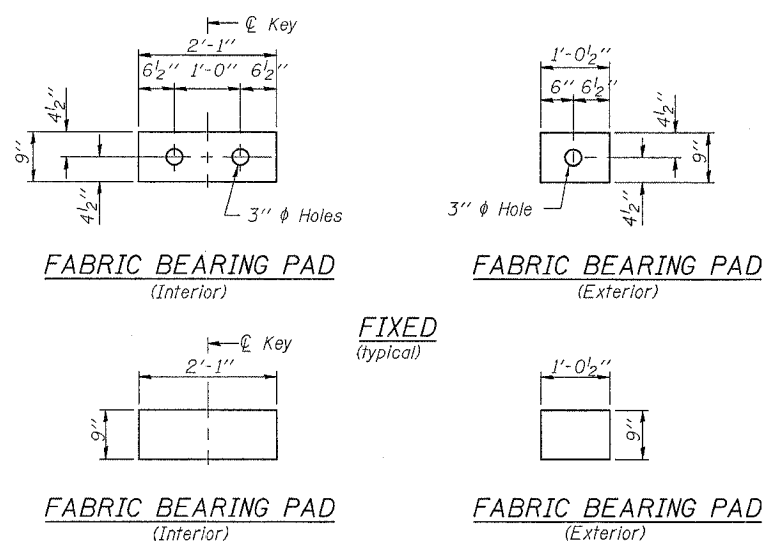
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

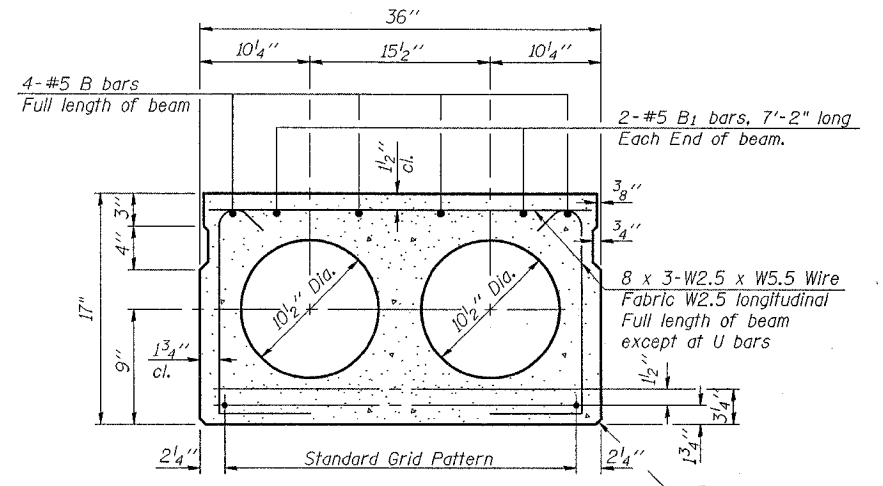
Contract # 64B27



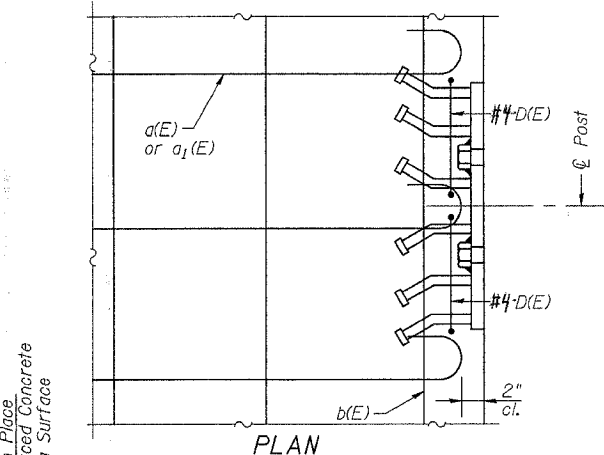
EXP. END (S. Abut. only) PLAN (Span 1 only) TYP. FIXED END



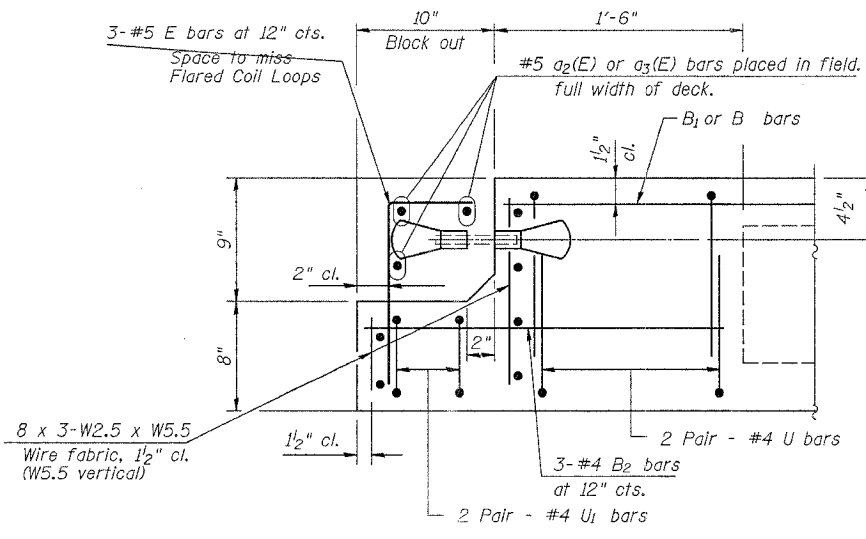
FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior) FIXED (typical) FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior) EXPANSION (S. Abut. only)



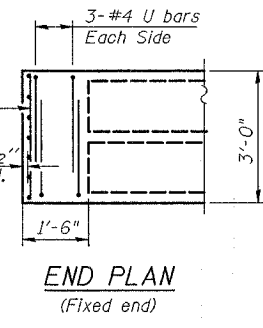
SECTION THRU INTERIOR BEAMS 4-#5 B bars Full length of beam 2-#5 B1 bars, 7'-2" long Each End of beam. 8 x 3-W2.5 x W5.5 Wire Fabric W2.5 longitudinal Full length of beam except at U bars 13-1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs. 9-Strands 1 3/4" up, 4-Strands 3/4" up, 2 strands @ 12" up Note: Place strands symmetrically about  $\phi$  of beam.



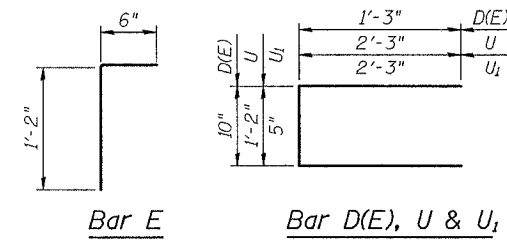
PLAN



END OF BEAM (EXP. END) (S. Abut. only)



END PLAN (Fixed end)



Bar E Bar D(E), U & U1

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2"  $\phi$  -270 ksi strands, as shown.

Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i.

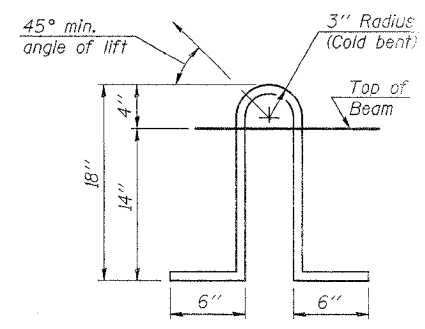
The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specification prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" Depth)	Sq. Ft.	3852
---	---------	------

SUPERSTRUCTURE DETAILS-2

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3/D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042



LIFTING LOOP DETAIL

Notes:  
The rail anchorage shall be cast with the beam and the wearing surface shall be cast in field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into beam. Drilling into the beam will not be permitted.

DESIGNED	CGM	200
CHECKED	EMM	EXAMINED
DRAWN	CGM	PASSED
CHECKED	EMM	ENGINEER OF BRIDGES AND STRUCTURES

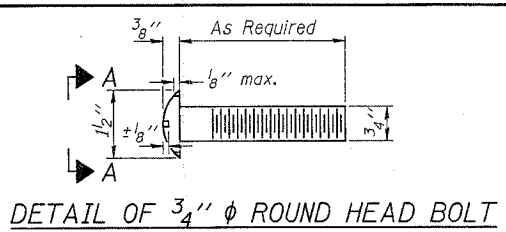
PD-3-S 10-22-04

180248 04 12/23/2005  
 REVIEWER: J. R. DAVIS  
 DESIGNER: J. R. DAVIS  
 FILE: D:\MS\10BR-3/D & 11BR-8\DETAILS\2.dgn

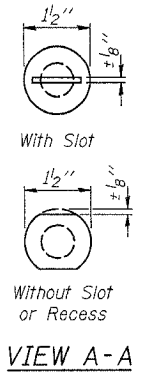


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

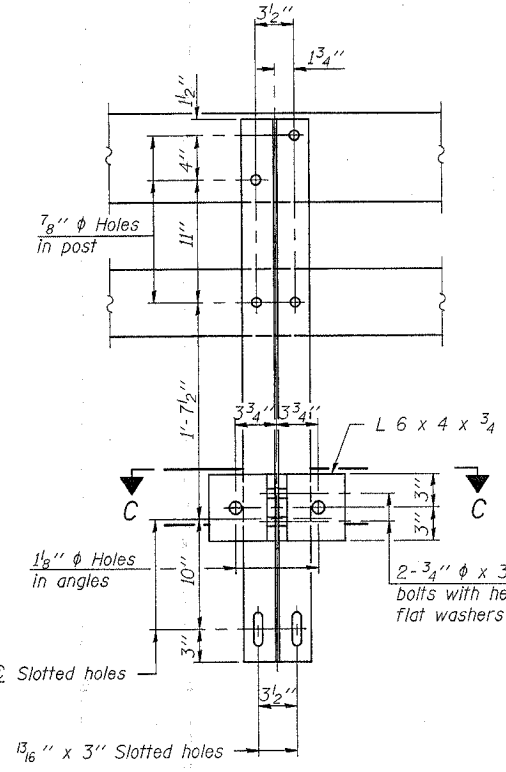
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	33	12 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		Contract # 64B27



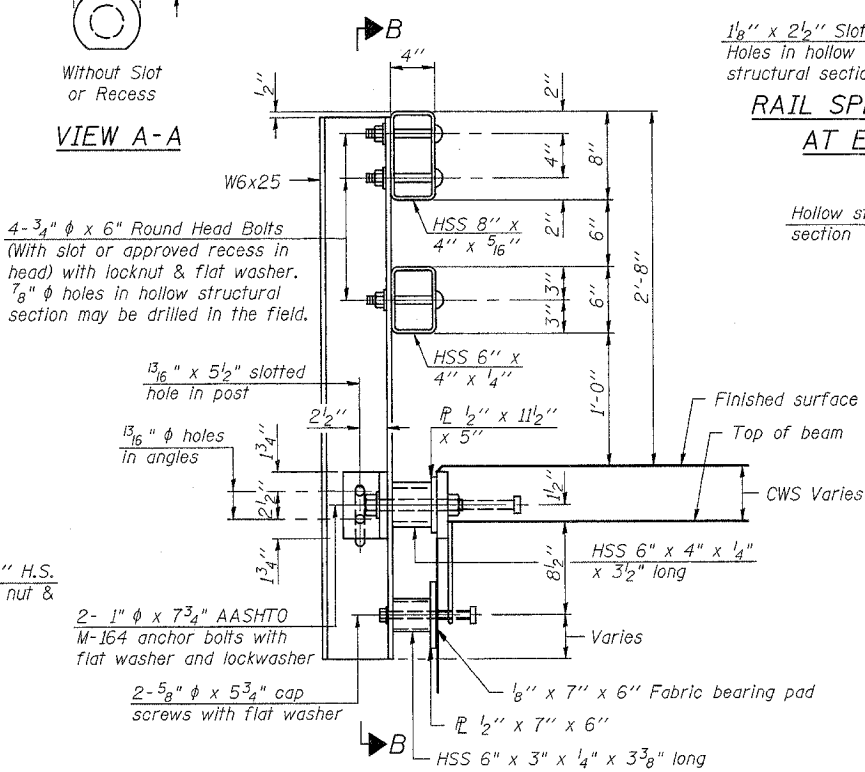
DETAIL OF  $\frac{3}{4}$ "  $\phi$  ROUND HEAD BOLT



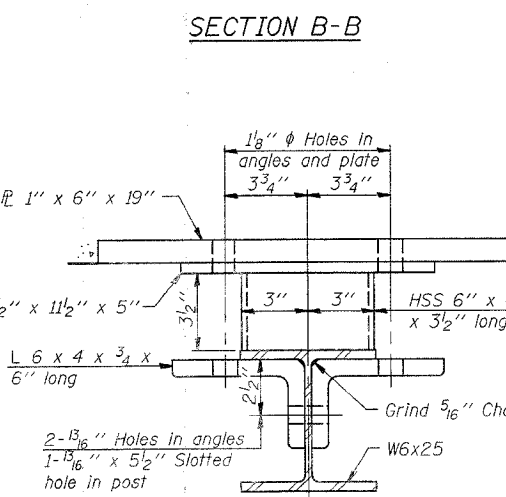
VIEW A-A



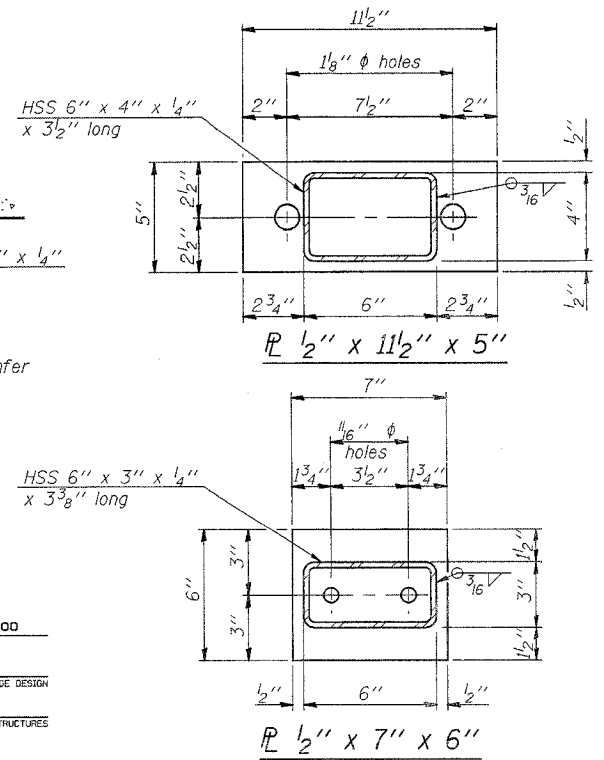
SECTION B-B



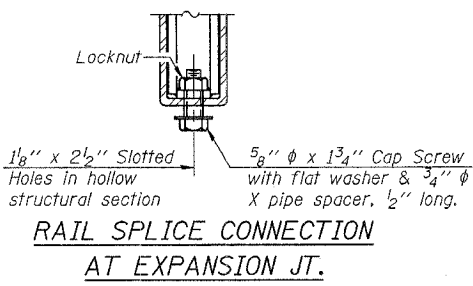
SECTION AT RAIL POST



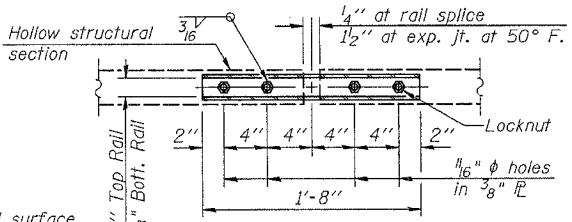
SECTION C-C



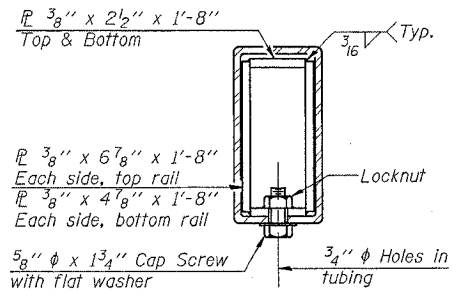
ANCHOR DEVICE



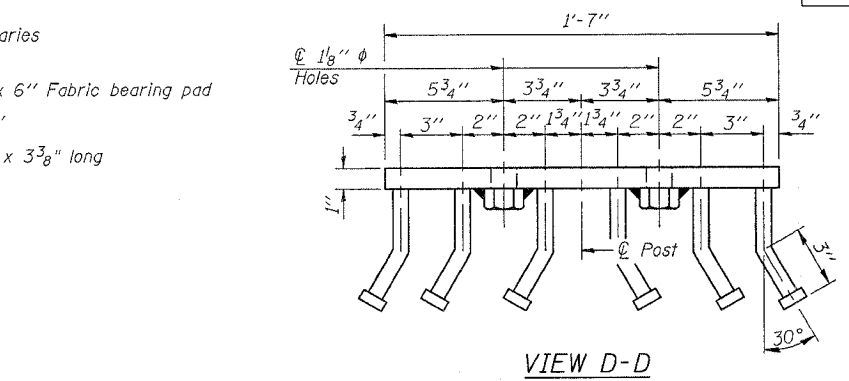
RAIL SPLICE CONNECTION  
AT EXPANSION JT.



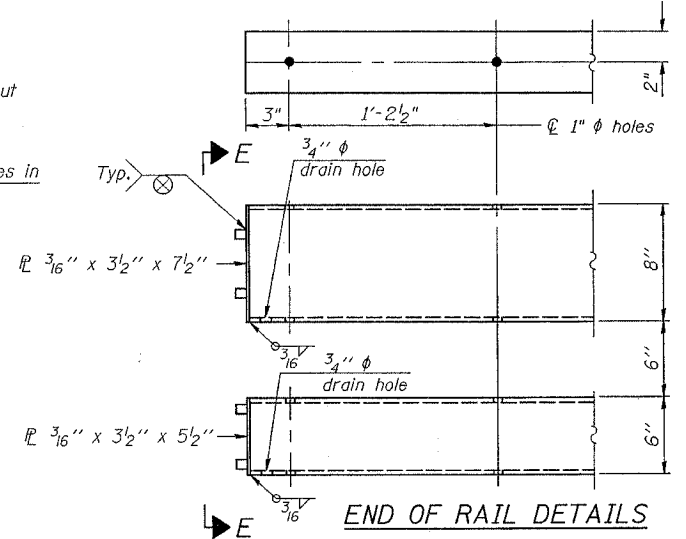
PLAN-BOTT. SPLICE P  
TYPICAL



SECTION AT  
RAIL SPLICE



VIEW D-D



END OF RAIL DETAILS

**NOTES**

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient  $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.

The  $\frac{3}{4}$ "  $\phi$  high strength bolts used to connect the 6 x 4 x  $\frac{3}{4}$  angles to the post shall be tightened according to Article 505.04(FX2) of the Standard Specifications. The 1"  $\phi$  high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional  $\frac{1}{8}$  turn. The  $\frac{5}{8}$ "  $\phi$  cap screws in bottom of posts shall be tightened to a snug fit only.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	214.5

**TYPE SM  
STEEL BRIDGE RAIL SIDE MOUNTED  
WITH CONCRETE WEARING SURFACE**

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DESIGNED CQM	200
CHECKED EMM	EXAMINED
DRAWN CQM	PASSED
CHECKED EMM	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

R-34CWS 10-28-05 (6'-3" Maximum Post Spacing) (5" minimum to 7 $\frac{1}{8}$ " maximum CWS thickness)

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

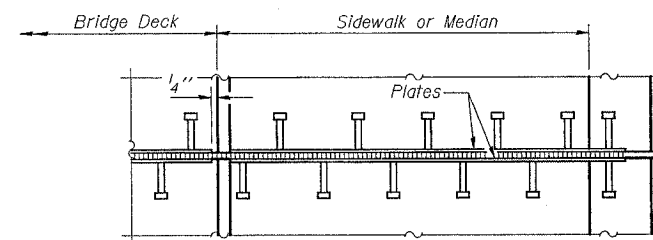
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	34	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract # 64B27

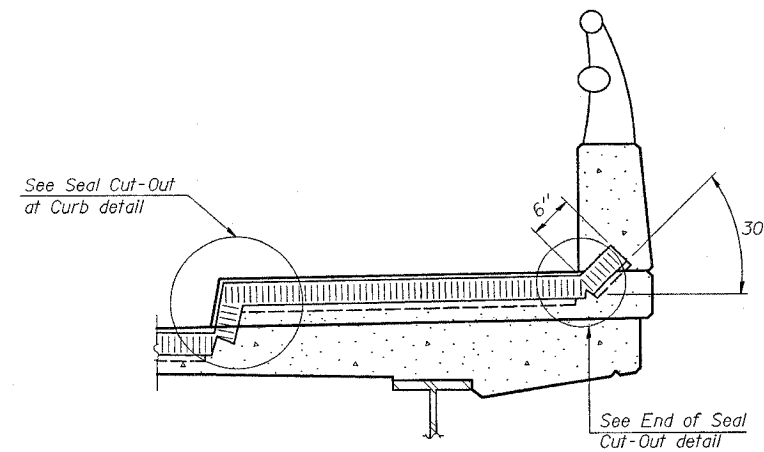
**GENERAL NOTES**

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be  $\frac{3}{16}$ ". Seal space with silicone sealant suitable for structural steel.

Bridge Joint System (Expansion)		
Design Movement	Required Prefomed Joint Seal Size	Required Strip Seal Rated movement
1"	2 $\frac{1}{2}$ "	1"
1 $\frac{5}{8}$ "	4"	2"



PLAN AT SIDEWALK OR MEDIAN



AT CURB, PARAPET, OR WALL  
(Showing plate)

\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

**BILL OF MATERIAL**

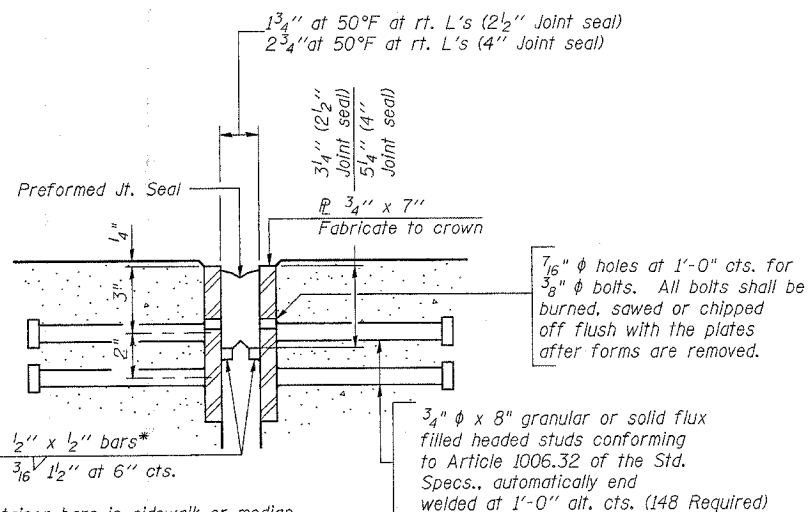
Item	Unit	Total
Bridge Joint System (Expansion) 1 $\frac{5}{8}$ "	foot	36

(Sheet 1 of 2)

**BRIDGE JOINT SYSTEM - EXPANSION  
(PREFORMED JOINT SEAL)**

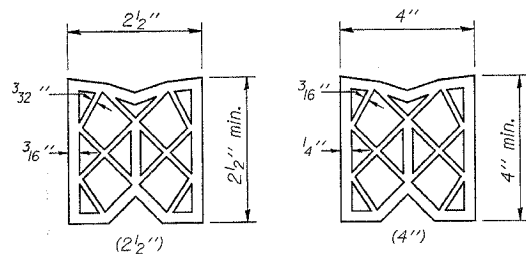
IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DATE : 12-21-05

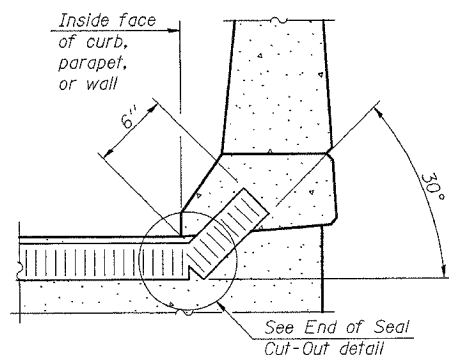


SECTION THRU EXPANSION JOINT  
(2 $\frac{1}{2}$ " and 4" joint seals)

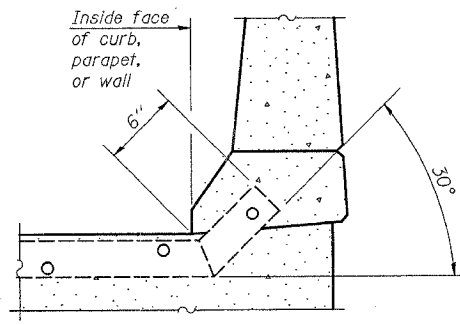
\*Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.



PREFORMED JOINT SEAL

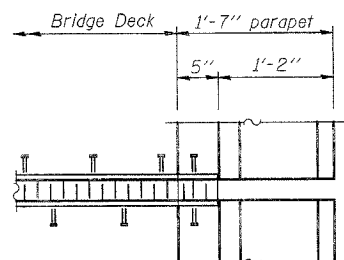


AT CURB, PARAPET, OR WALL  
(Showing seal)

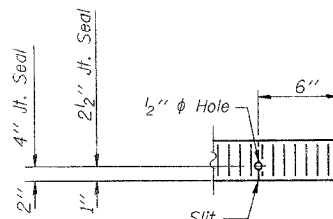


AT CURB, PARAPET, OR WALL  
(Showing plate)

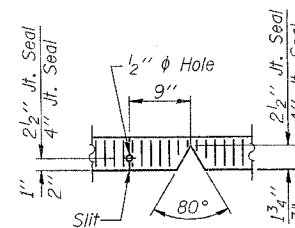
**TYPICAL END TREATMENTS**



PLAN AT PARAPET



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB

DESIGNED COM	200
CHECKED EMM	EXAMINED
DRAWN COM	PASSED
CHECKED EMM	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

EJ-BJS 10-22-04

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 8  
12 SHEETS

Contract # 64B27

**GENERAL NOTES**

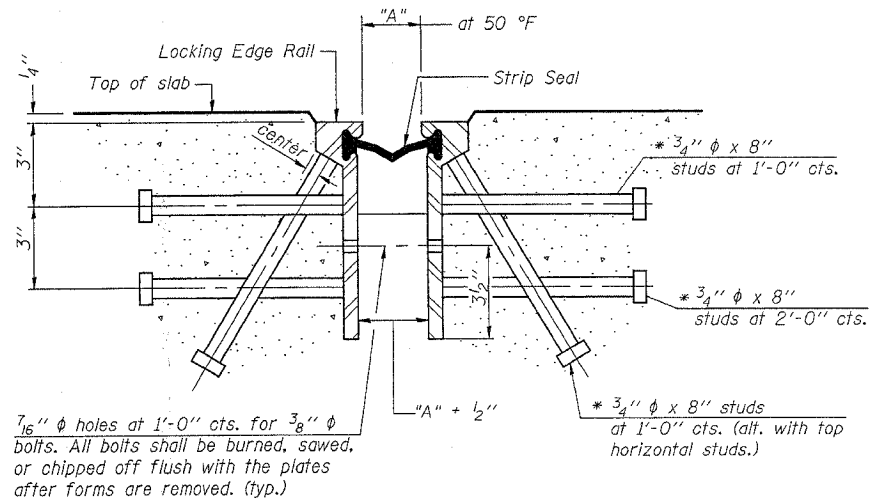
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

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.

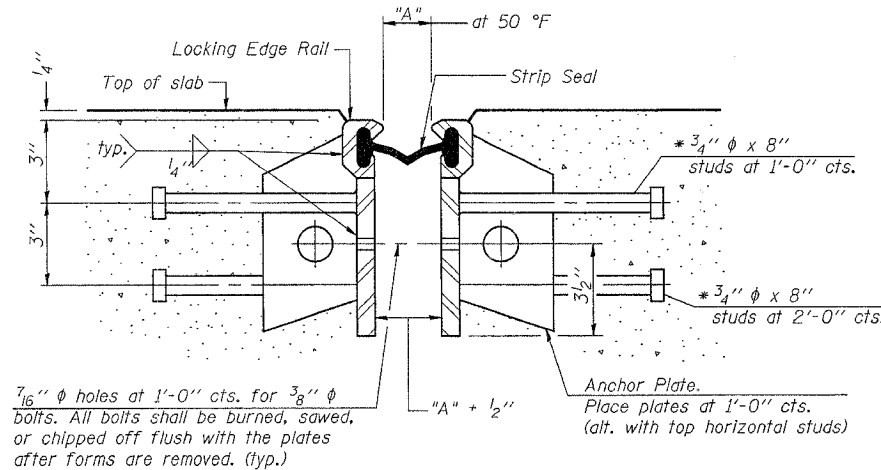
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.



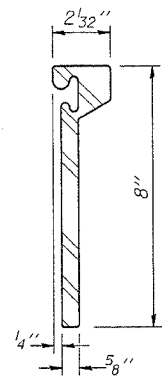
Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"



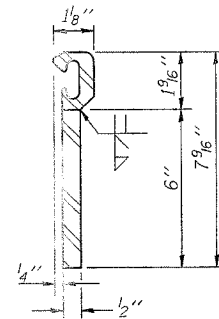
**SECTION THRU ROLLED RAIL EXP. JOINT**  
(186 Studs Required)

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

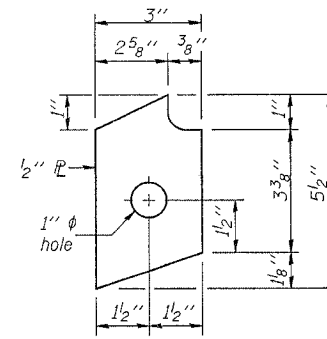
**SECTION THRU WELDED RAIL EXP. JOINT**  
(112 Studs Required)  
(74 Anchor Plates Required)



**ROLLED (EXTRUDED) RAIL**

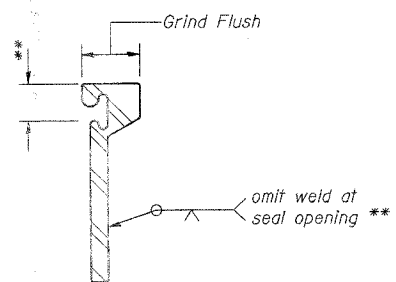


**WELDED RAIL**



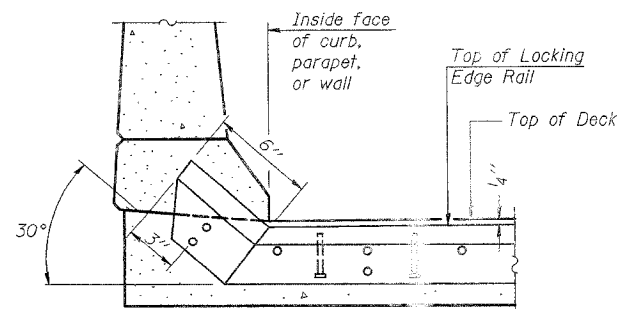
**ANCHOR PL**  
(for welded rail)

**LOCKING EDGE RAILS**

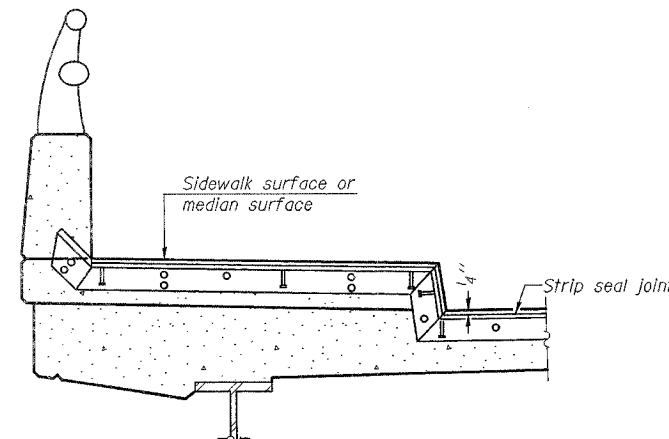


**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.



**AT CURB, PARAPET, OR WALL**



**AT SIDEWALK OR MEDIAN\***

**TYPICAL END TREATMENTS**

\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

(Sheet 2 of 2)  
**BRIDGE JOINT SYSTEM - EXPANSION**  
**(ALTERNATE-STRIP SEAL)**  
**IL. RTE. 78 OVER**  
**DAVIS CREEK**  
**F.A. 642 SECTION (10BR-3D & 11BR-8**  
**JO DAVIESS COUNTY**  
**STA. 20+75.37**  
**STRUCTURE NUMBER 043-0042**

DESIGNED CQM	200
CHECKED EMM	EXAMINED
DRAWN CQM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

EJ-BJS 10-22-04

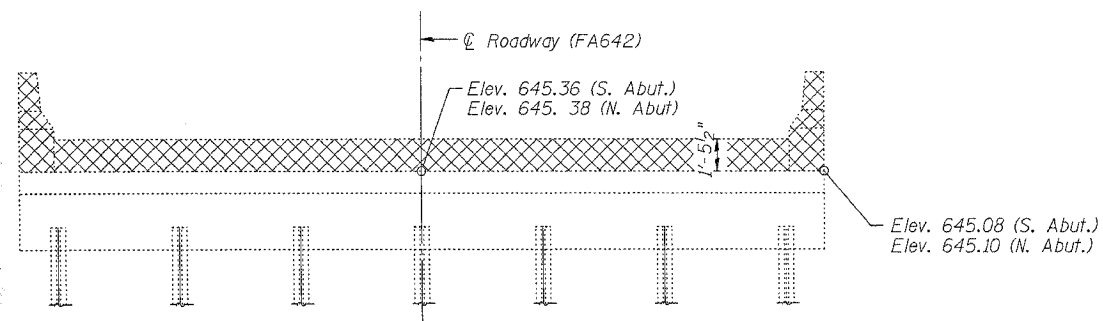
DATE : 12-21-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

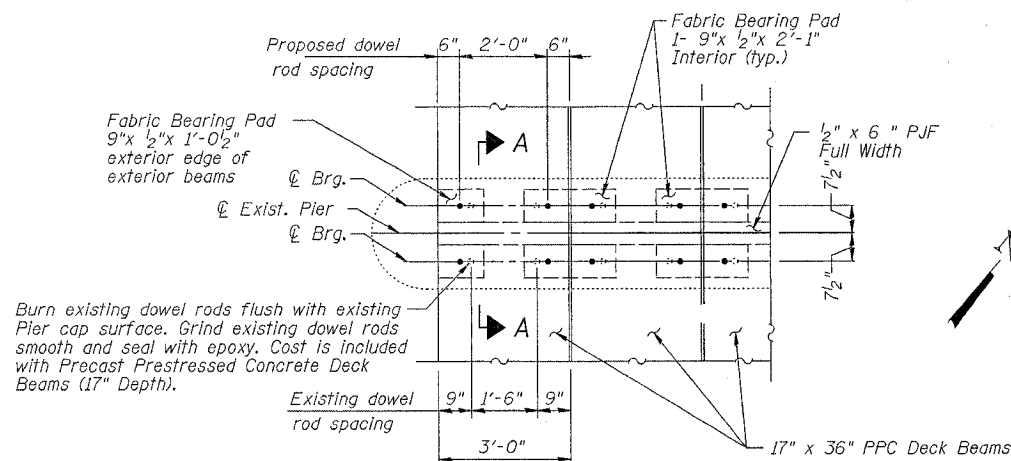
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
78	10BR-3D & 11BR-8	JO DAVIESS	45	36
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT	

SHEET NO. 9  
12 SHEETS

Contract # 64B27

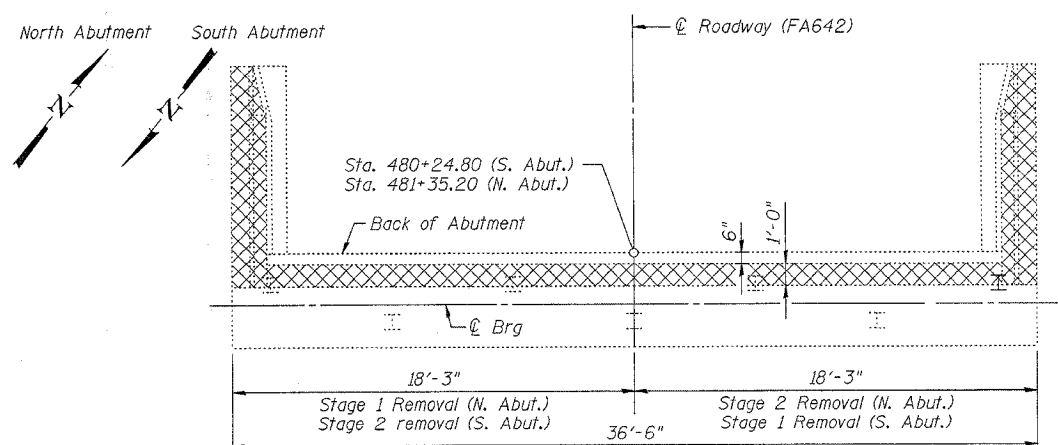


ABUTMENT ELEVATION

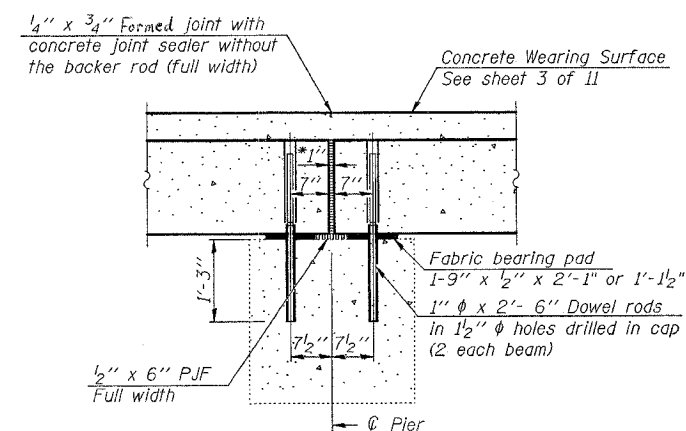


PIER TOP PLAN

(Pier 1 & 2)



ABUTMENT PLAN



SECTION A-A

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

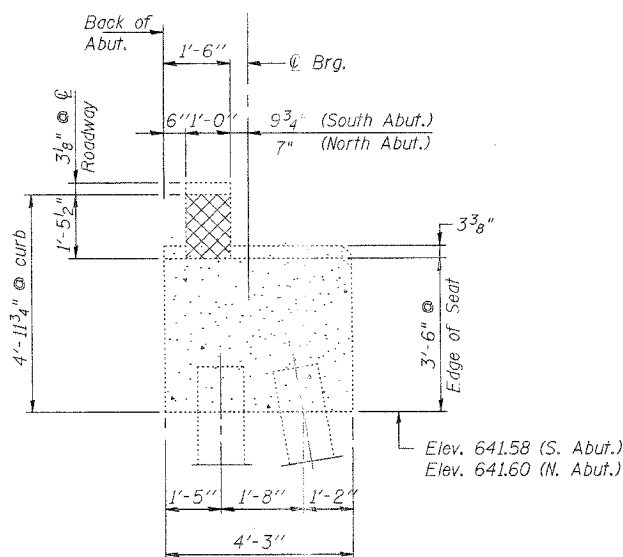
Notes :

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	12.6



SEC. THRU ABUT.

LEGEND

Concrete Removal

DESIGNED COM	200
CHECKED EMM	EXAMINED
DRAWN COM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

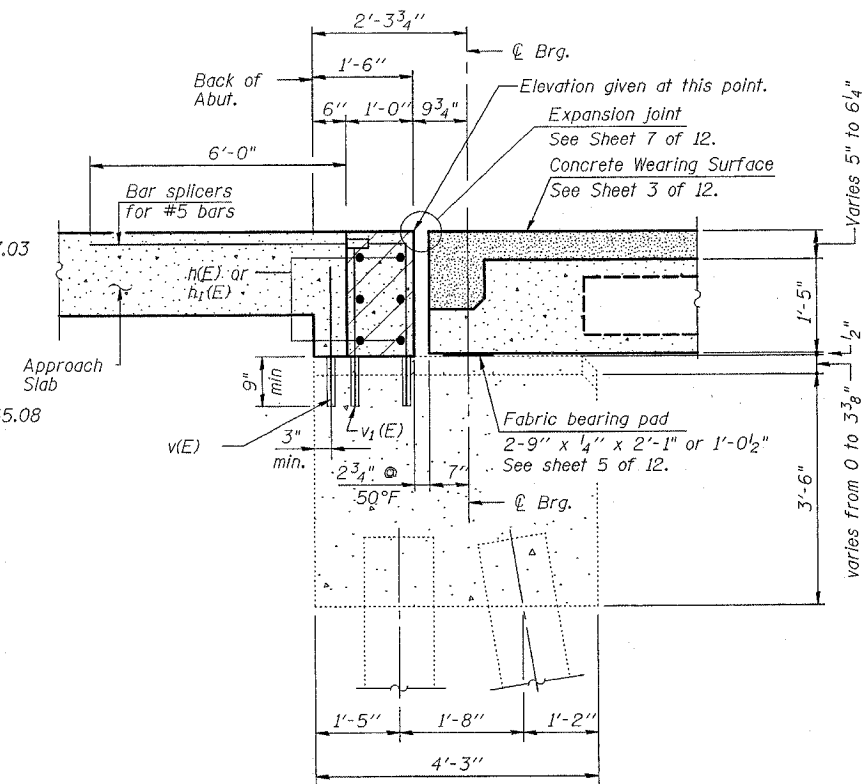
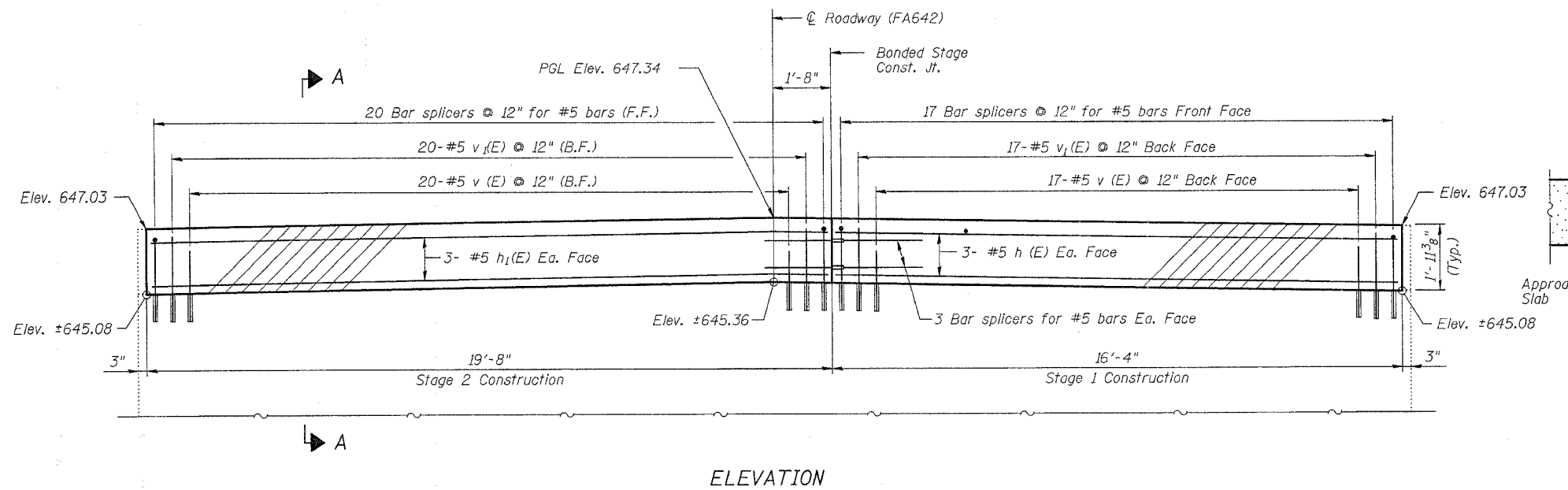
**SUBSTRUCTURE CONCRETE  
REMOVAL**  
IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3D & 11BR-8  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DATE : 12-21-05

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
78	10BR-3D & 11BR-6	JO DAVIESS	45	37	12 SHEETS

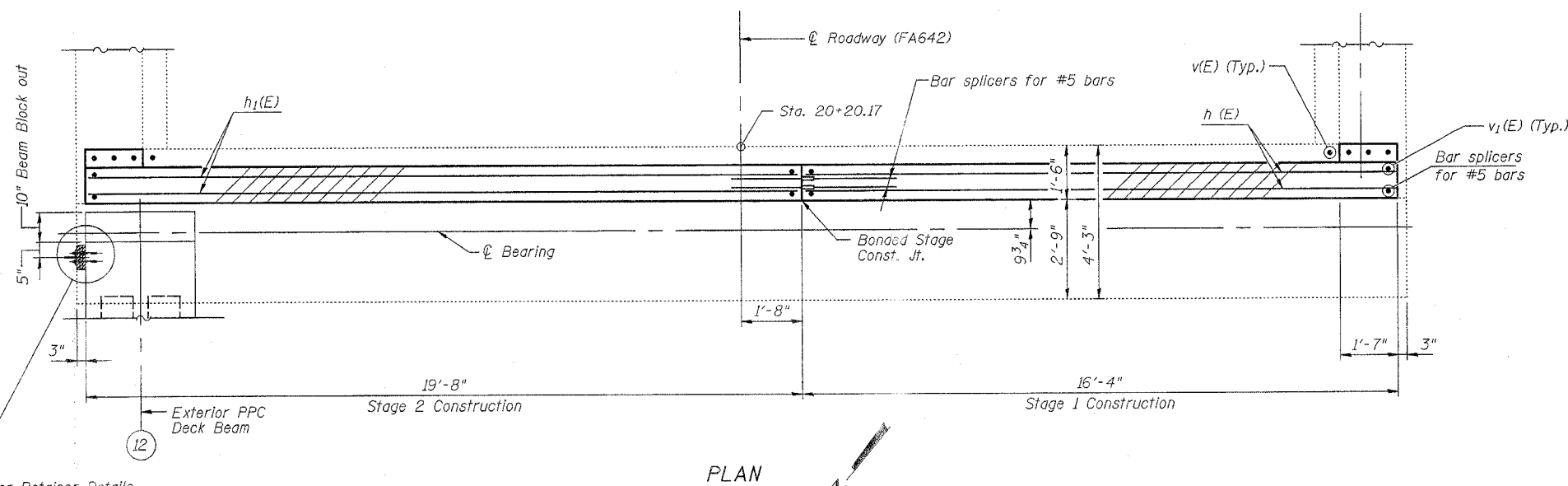
Contract # 64B27



SEC. A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	16'-1"	—
h1(E)	6	#5	19'-5"	—
* v(E)	37	#5	2'-3"	—
* v1(E)	37	#5	2'-6"	—
Concrete Structures			Cu. Yd.	2.7
Reinforcement Bars, Epoxy Coated			Pound	410



PLAN

Notes:

- Hatched area shall be poured after Concrete Wearing Surface (including blockout) is in place and cured. Cost of temporary retainers, and accessories are included with Precast Prestressed Concrete Deck Beams (17" Depth).
- \* Epoxy grout Bars v(E), v1(E) and Bar Splicers in 9" min. drilled holes according to Section 584 of the Standard Specifications.
- Reinforcement bars designated (E) shall be epoxy coated.

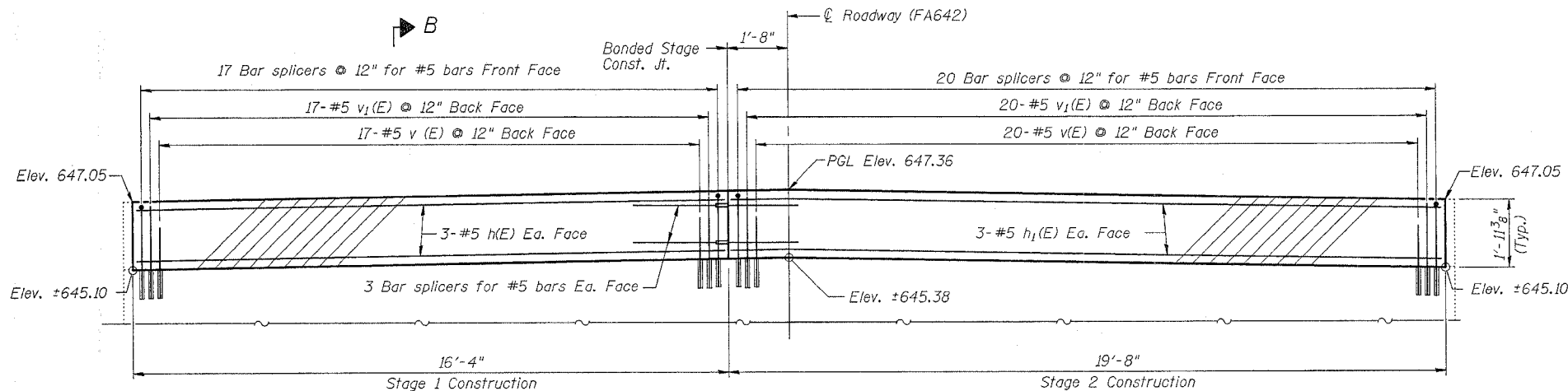
**SOUTH ABUTMENT**  
**IL. RTE. 78 OVER**  
**DAVIS CREEK**  
**F.A. 642 SECTION (10BR-3D) & 11BR-8**  
**JO DAVIESS COUNTY**  
**STA. 20+75.37**  
**STRUCTURE NUMBER 043-0042**

DESIGNED CQM	200
CHECKED EMW	EXAMINED
DRAWN CQM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

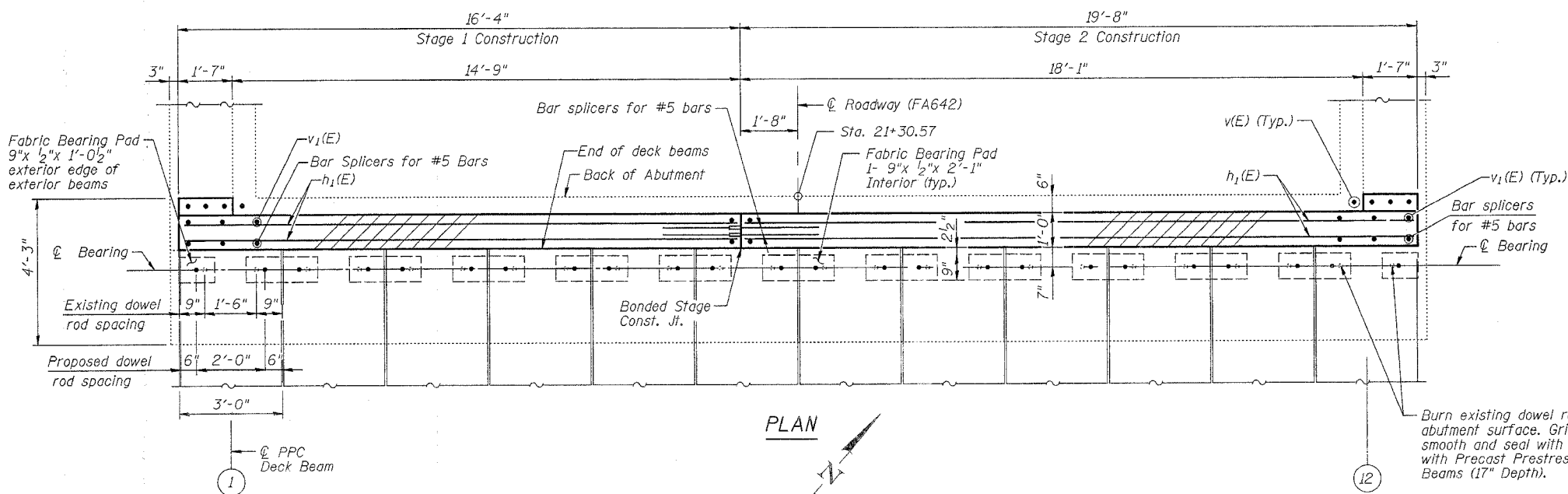
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
78	(10BR-3)D & (11BR-8)	JO DAVIESS	45	38	12 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract # 64B27



ELEVATION



PLAN

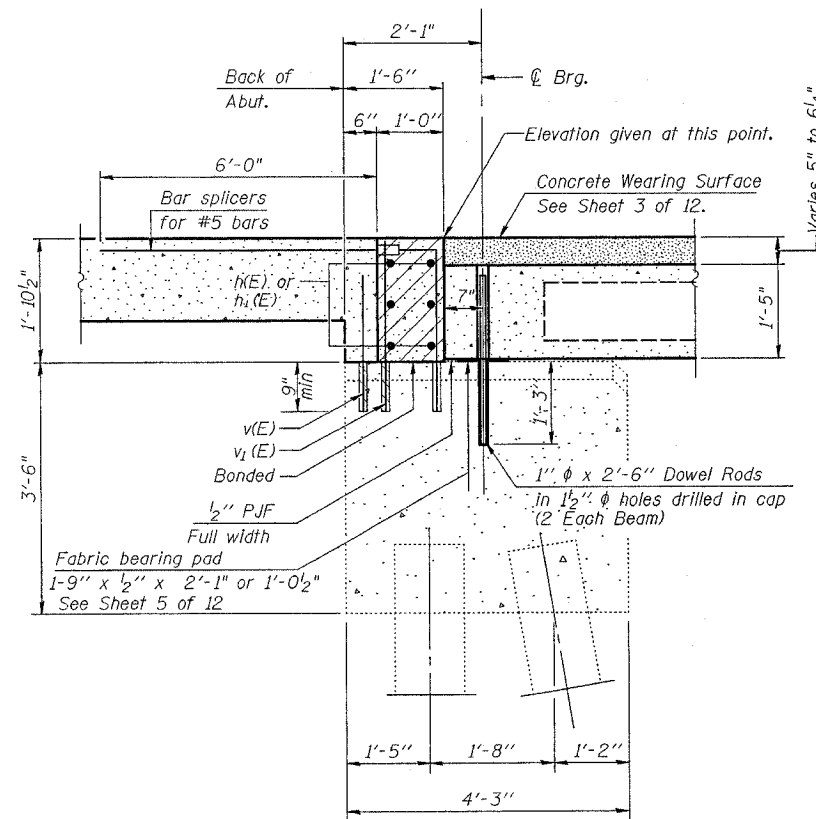
Notes:

Hatched area shall be poured after Concrete Wearing Surface (including blockout) is in place and cured. Cost of temporary retainers, and accessories are included with Precast Prestressed Concrete Deck Beams (17" Depth).

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

\* Epoxy grout Bars v(E), v1(E) and Bar Splicers in 9" min. drilled holes according to Section 584 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated. See sheet 5 of 12 for bearing pad details.



SEC. B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	16'-1"	
h1(E)	6	#5	19'-5"	
v(E)	37	#5	2'-3"	
v1(E)	37	#5	2'-6"	
Concrete Structures		Cu. Yd.	2.7	
Reinforcement Bars, Epoxy Coated		Pound	410	

NORTH ABUTMENT

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3)D & (11BR-8)  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

DATE : 12-21-05

DESIGNED CQM	200
CHECKED EMM	EXAMINED
DRAWN CQM	ENGINEER OF BRIDGE DESIGN
CHECKED EMM	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
78	10BR-3D & 11BR-8	JO DAVIESS	45	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 64B27

SHEET NO. 12  
12 SHEETS

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- Minimum \*Pull-out Strength =  $1.25 \times f_{sallow} \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{sallow}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

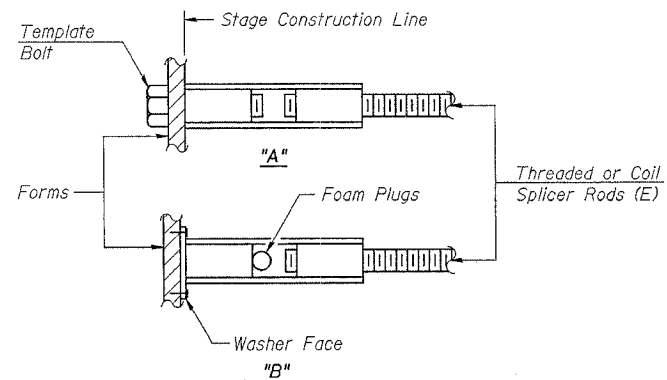
Wire Connector



WELDED SECTIONS

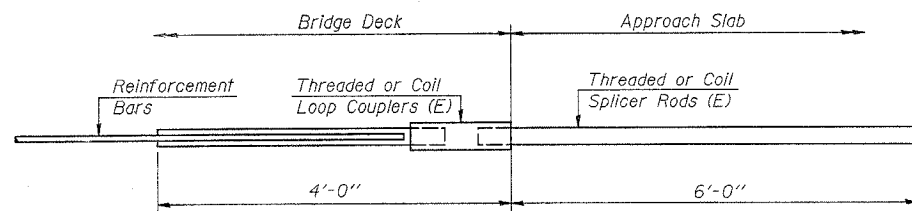
BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



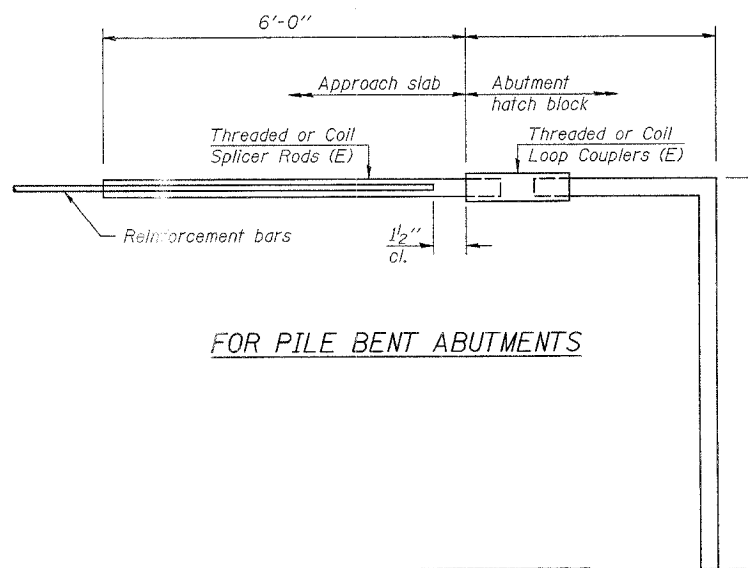
INSTALLATION AND SETTING METHODS

"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.



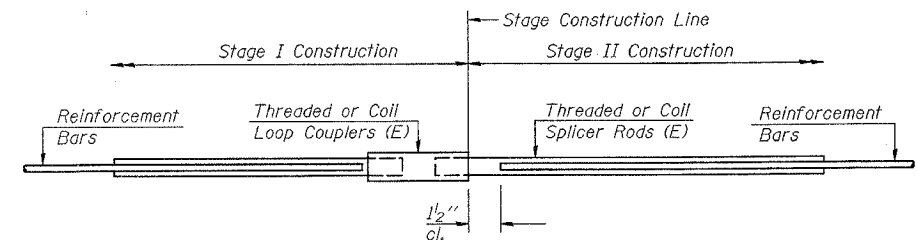
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 74



STANDARD

Bar Size	No. Assemblies Required	Location
#4	108	Deck
#5	3	Deck Bm. Block out
#5	6	South Abutment
#5	6	North Abutment

BAR SPLICER ASSEMBLY DETAILS

IL. RTE. 78 OVER  
DAVIS CREEK  
F.A. 642 SECTION (10BR-3)D & 11BR-8  
JO DAVIESS COUNTY  
STA. 20+75.37  
STRUCTURE NUMBER 043-0042

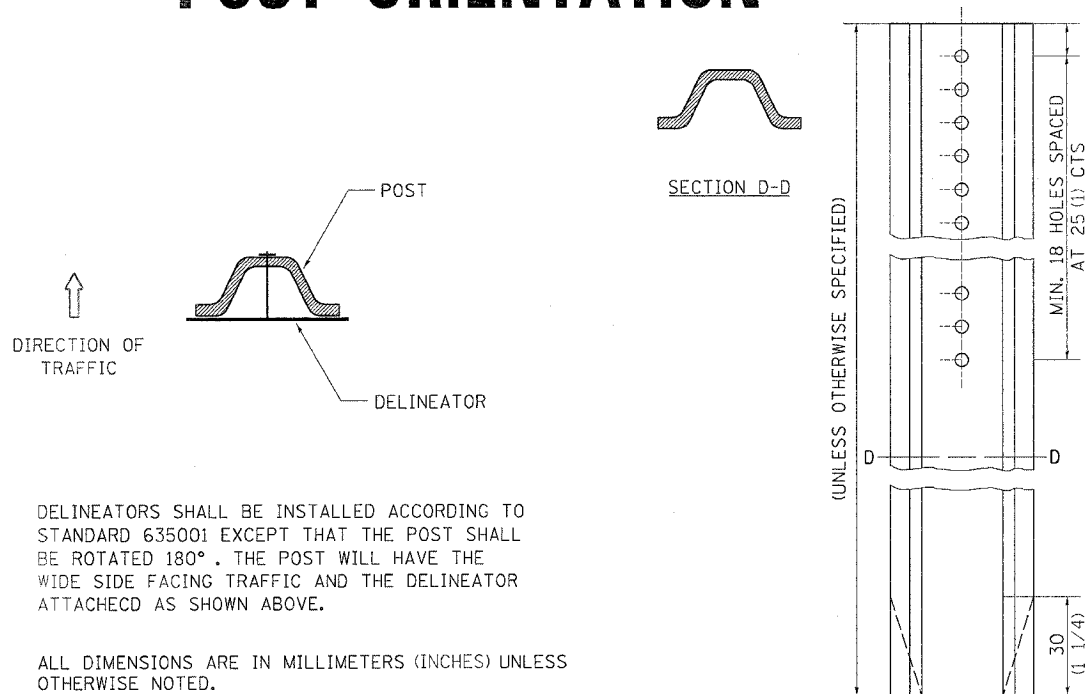
DESIGNED CQM	200
CHECKED EMM	EXAMINED
DRAWN CQM	PASSED
CHECKED EMM	ENGINEER OF BRIDGES AND STRUCTURES

BSD-1

10-22-04

DATE : 12-21-05

# DELINEATOR AND POST ORIENTATION



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

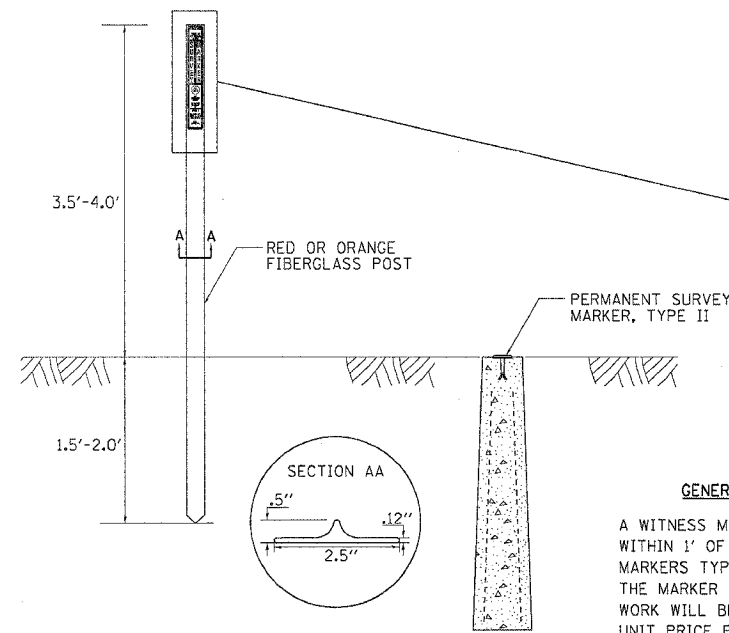
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**DELINEATOR AND POST ORIENTATION 37.4**

REVISED 1-31-00

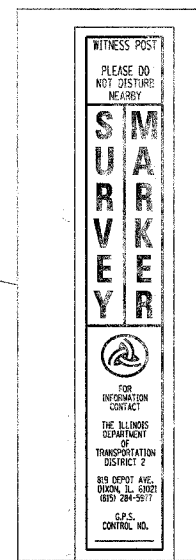
# WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
642	(10BR-3)D	JODAVIESS	45 40
STA.	11BR-8	TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



**GENERAL NOTES**

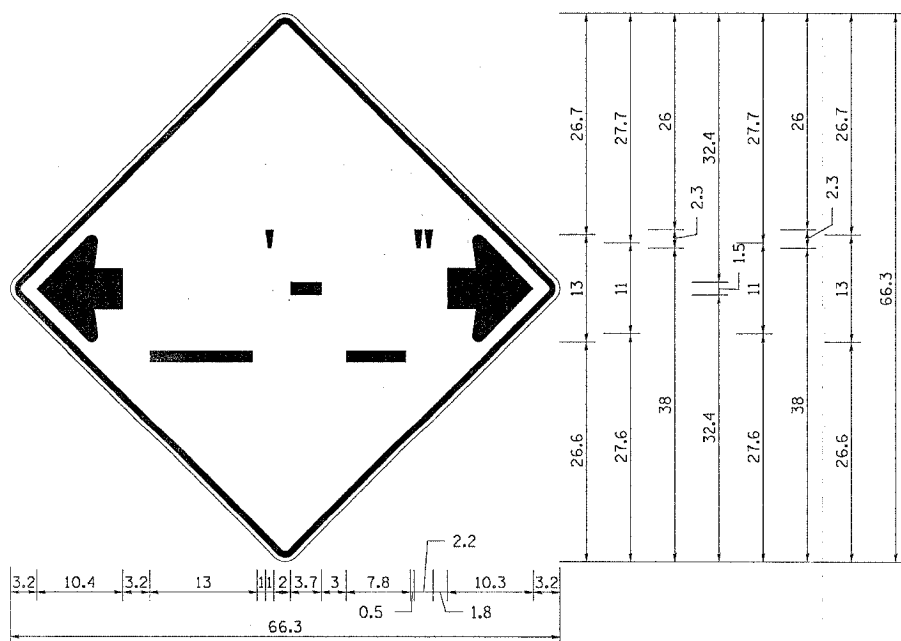
A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.



**WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II 38.4**

REVISED 1-31-00

# INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



**NOTES**

W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°

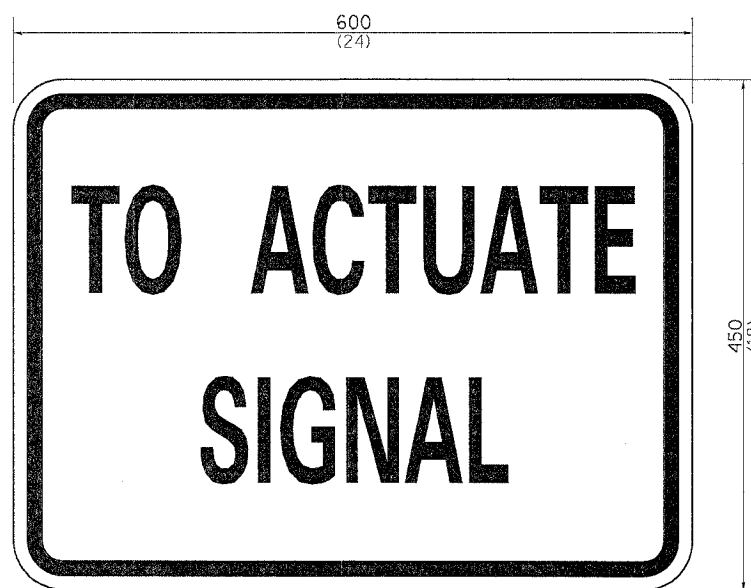
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

**INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4**

REVISED 6-29-05

# STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)

100(4) CAPITAL LETTERS - BLACK

13 (1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE B ENGINEERING GRADE SHEETING

**GENERAL NOTE:**

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

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

**STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4**

REVISED 8-7-90

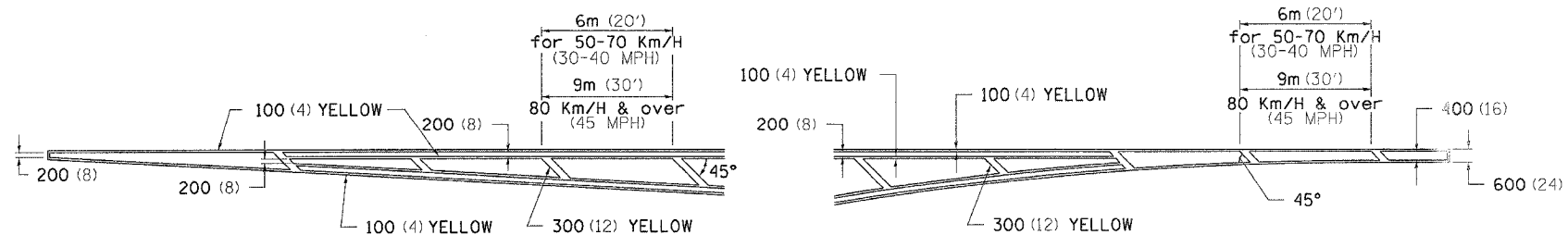
PLOT DATE = Fri, Dec 30 6:12:21 AM 2005  
 PLOT SCALE = 1/8" = 1'-0"  
 PLOT SIZE = 11" x 17"  
 REFERENCE = 41REF#



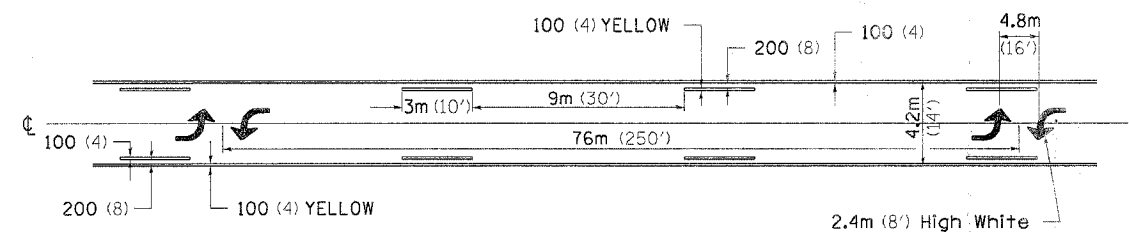
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(10BR-3)D	JODAVIESS	45	41
STA.	11BR-8	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL PAVEMENT MARKINGS

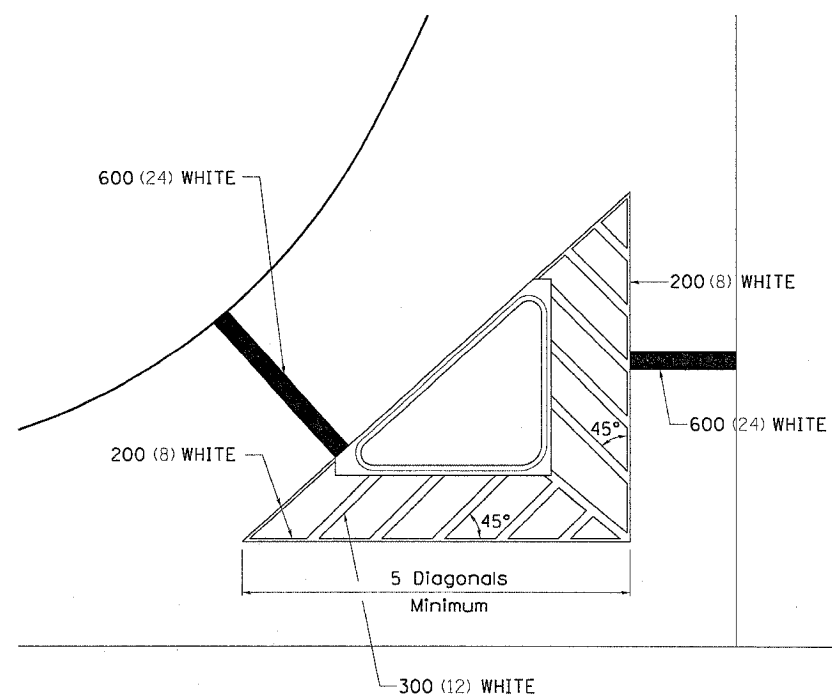
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



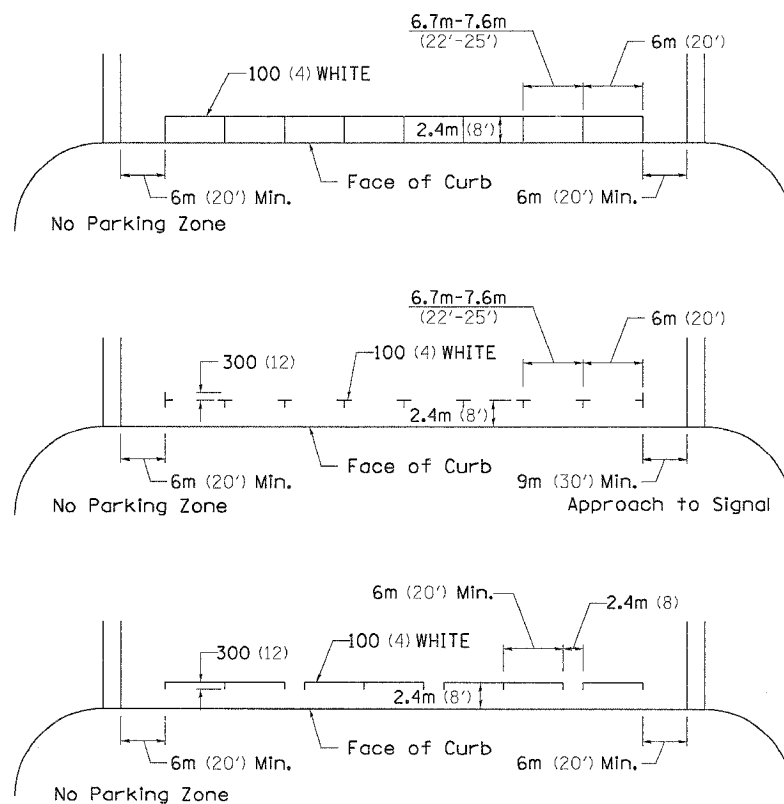
## MEDIAN PAVEMENT MARKING



## TYPICAL ISLAND OFFSET SHOULDER WIDTH



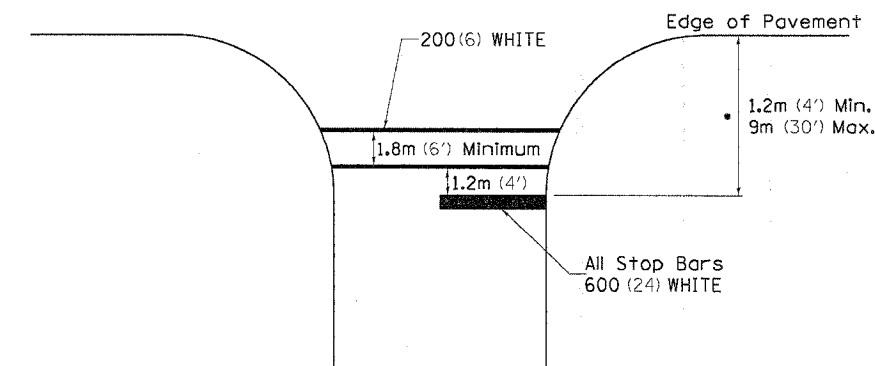
## TYPICAL PARKING SPACING



•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## STANDARD CROSSWALK MARKING

See Schedules for Locations



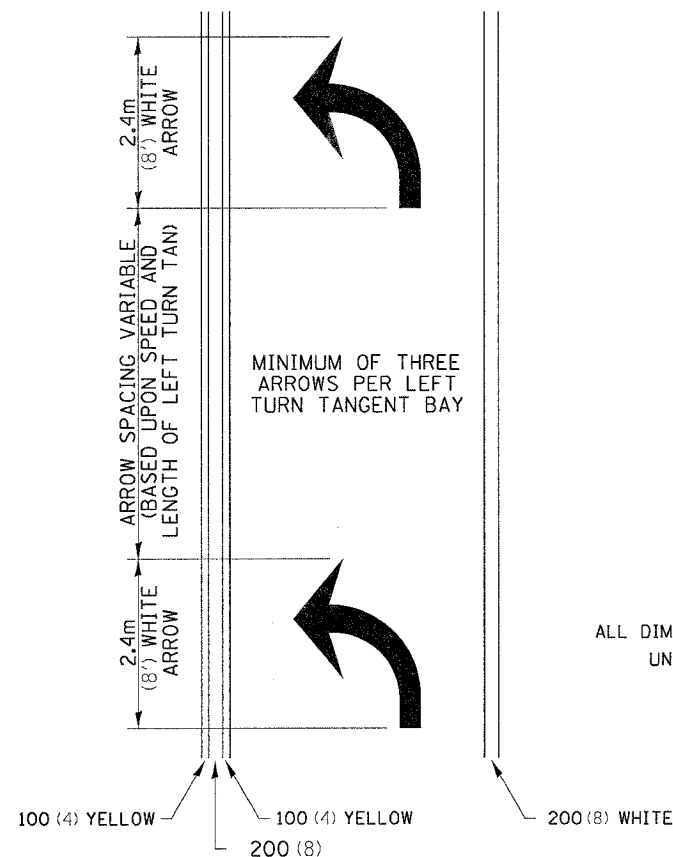
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

PLOT DATE = Fri, Dec 30 09:32:15, 2005  
 PLOT SCALE = 5000000 / IN  
 REFERENCE = #REF!

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(10BR-3)D	JODAVIENS	45	42
STA.	118R-8	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL PAVEMENT MARKINGS

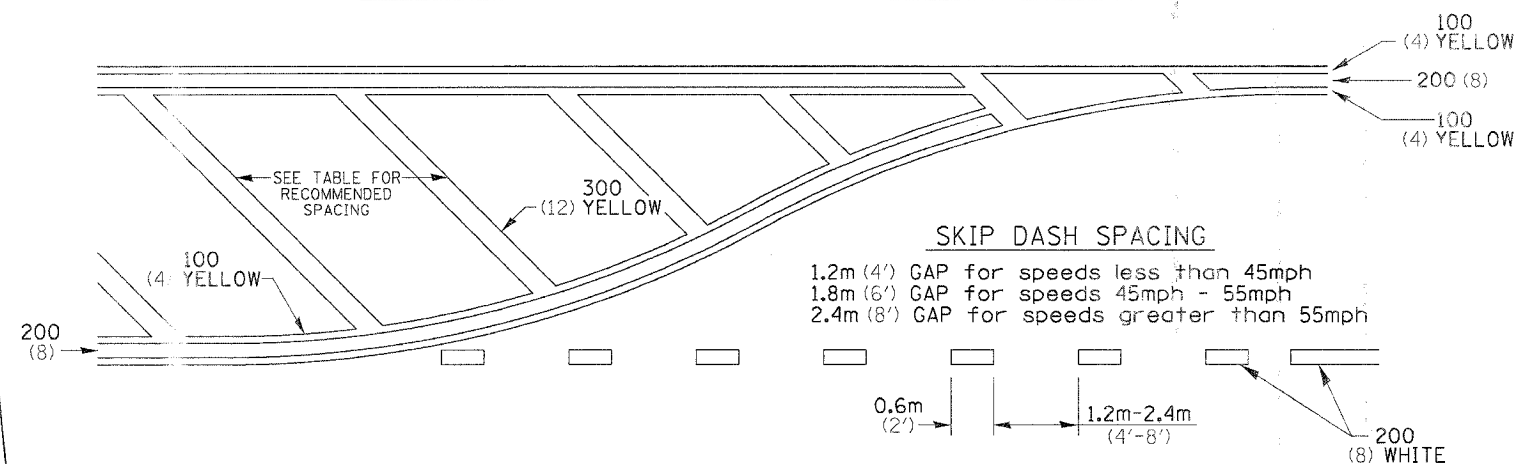
## ARROW LAYOUT



- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

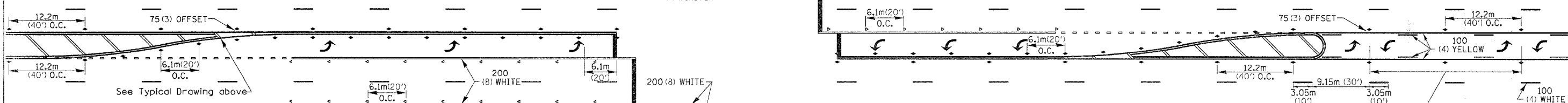
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

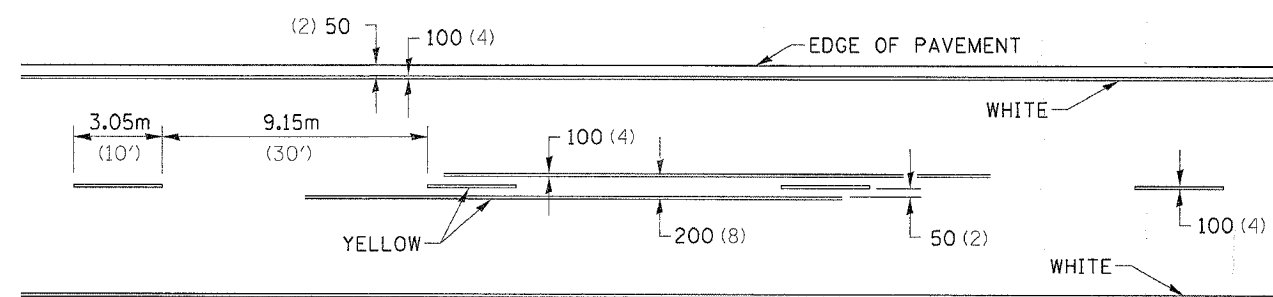
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

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



MINIMUM OF TWO PAIRS OF ARROWS. ADDITIONAL PAIRS EVERY 200'-300'.

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



## SYMBOLS

See Typical Drawing above

12.2m (40') O.C. APPROACH SIDE ONLY

- \* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 25,000

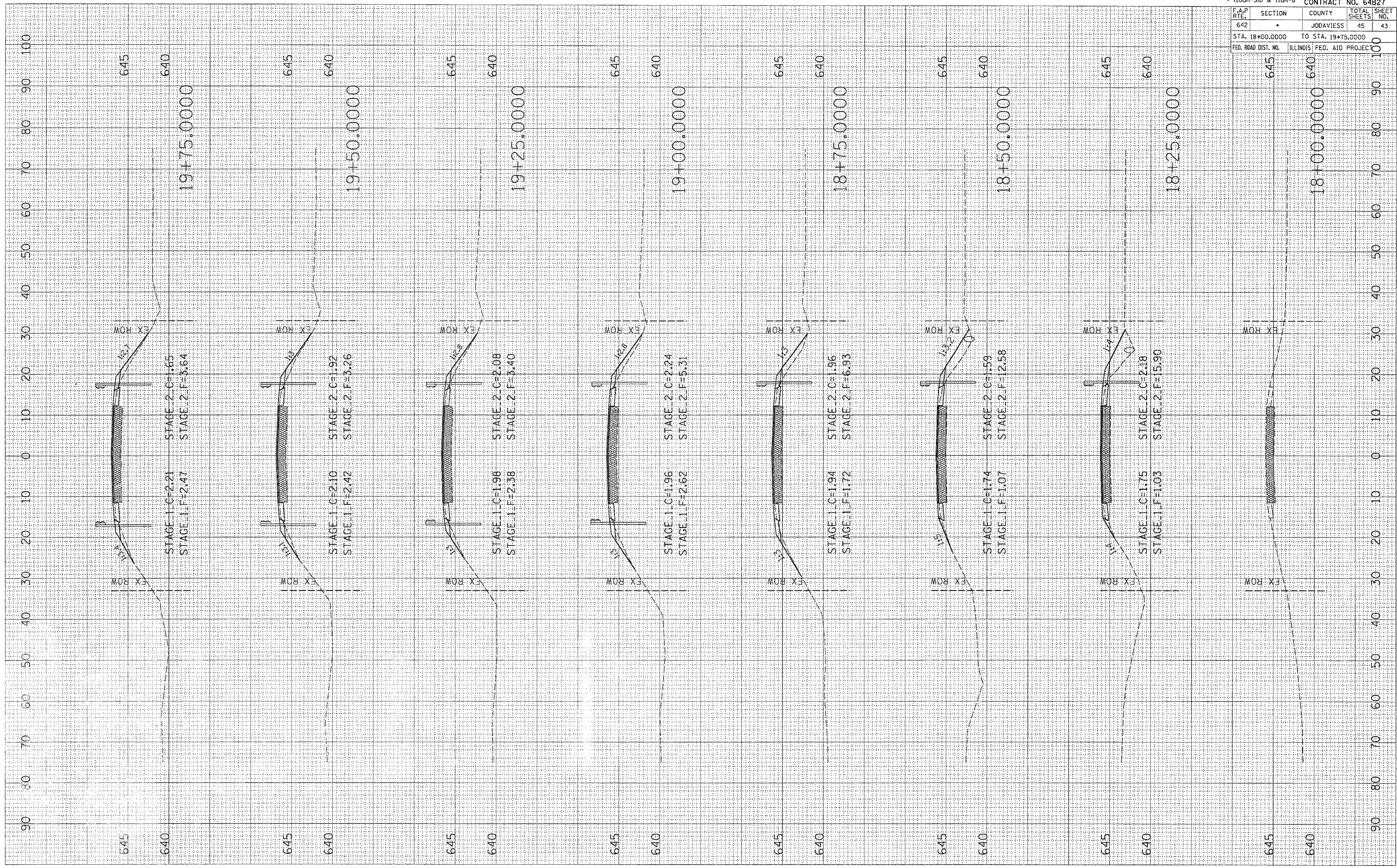
## MULTI-LANE / UNDIVIDED

PLOT DATE = Fri, Dec 30 08:02:18 2025  
 PLOT SCALE = 5000000 / 1 IN.  
 REFERENCE = #REF#

PLOT DATE = Fri Dec 28 09:48:43 2006  
 FILE NAME = c:\pwworkspace\18080811\18080811.dwg  
 USER NAME = jguyard

ORIGINAL SURVEY NO. 18080811  
 EXAMINED BY DATE  
 PLOTTED BY DATE  
 TEMPLATE NO. 18080811  
 AREAS CHECKED BY DATE

FINAL SURVEY NO. 18080811  
 EXAMINED BY DATE  
 PLOTTED BY DATE  
 TEMPLATE NO. 18080811  
 AREAS CHECKED BY DATE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	43
STA. 18+00.0000 TO STA. 19+75.0000				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	*	JODAVIESS	45	44
STA. 20+00.0000		TO STA. 22+00.0000		100
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		100

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREA		
MEAS. CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREA		
MEAS. CHECKED		

PLOT DATE = Fri, Dec 30 8:30:45 2005  
 PLOT SCALE = 1" = 40.0000'  
 USER NAME =



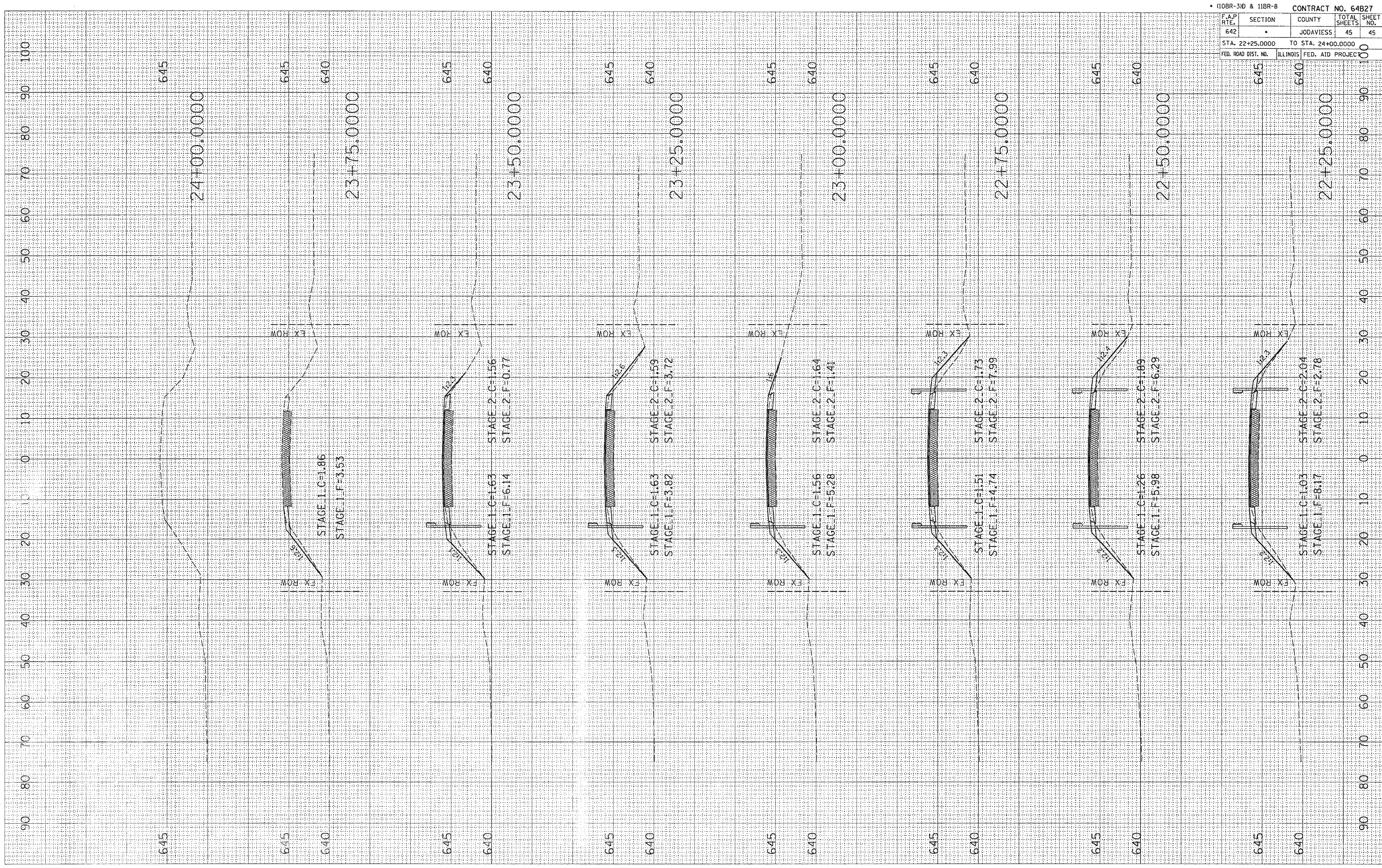


PLOT DATE = Fri Dec 30 09:03:45 2005  
 FILE NAME = C:\p05\2205065\2205065.dwg  
 PLOT SCALE = 10.00/1.00 = 10.00  
 USER NAME = p05065-1

ORIGINAL SURVEY  
 SURVEYED  
 PLOTTED  
 NOTE BOOK  
 AREAS CHECKED

FINAL SURVEY  
 SURVEYED  
 PLOTTED  
 NOTE BOOK  
 AREAS CHECKED

BY  
 DATE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642		JODAVIESS	45	45

CONTRACT NO. 64B27

STA. 22+25.0000	TO STA. 24+00.0000

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT