INDEX OF SHEETS

COVER SHEET GENERAL NOTES SUMMARY OF QUANTITIES

TYPICAL SECTION

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

TEMPORARY CONCRETE BARRIER WIDTH RESTRICTION SIGNING

STRUCTURE PLANS

0

0

0

0

STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 000001-06 AREAS OF REINFORCEMENT BARS 001001-02 DECIMAL OF AN INCH AND OF A FOOT 001006 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM 701006-03 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE, 2L. 2W. BRIDGE REPAIR WITH BARRIER 701321-11 TRAFFIC CONTROL DEVICES 701901-01 TEMPORARY CONCRETE BARRIER 704001-06

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

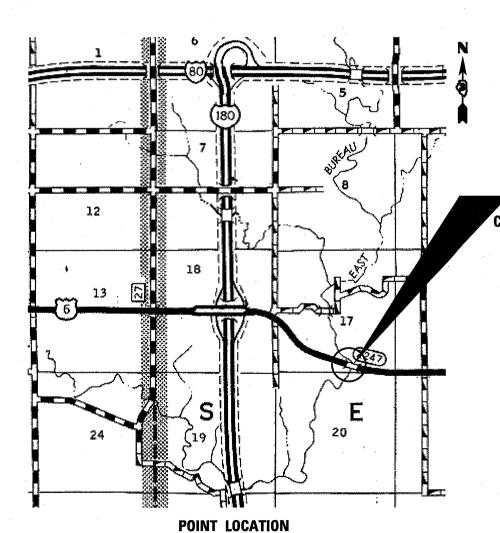
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAS 2247 (US 6) SECTION (13C-BR)I

BRIDGE REPAIRS BUREAU COUNTY

C-93-114-10



PROJECT LOCATION SN 006-0137 CARRYING FAS 2247 (US 6) OVER **EAST BUREAU CREEK** 1.3 MILES EAST OF I-180

LOCATION OF SECTION INDICATED THUS: - -

(13C-BR)[

D-93-002-11

BUREAU 14 1

FUNCTIONAL CLASSIFICATION RURAL - MAJOR ARTERIAL 2009 ADT = 2600P.V. = 95.8%

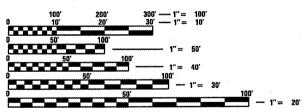
S.U. = 2.3%M.U. = 1.9%

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 78 20 10

Christina M. Reed on DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: JOE KANNEL UNIT CHIEF: RON WOODSHANK TOWNSHIP: SELBY

CONTRACT NO. 66A29

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE HMA BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ON EXISTING SHOULDER WHICH MAY BE SUPERELEVATED, THE NEW HMA WIDENING SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

	.12 LBS	/ SQ	YD /	IN
--	---------	------	------	----

COMMIMENTS

NONE. 1203/2010

HMA MIXTURE TABLE

HIMA WITATURE TABLE						
	НМА					
	WIDENING					
PG GRADE	PG64-22					
DESIGN AIR	4.0%					
VOIDS	N50					
MIXTURE	IL 19.0					
COMPOSITION						
FRICTION	-					
AGGREGRATE						
DENSITY CONTROL	CORES					
METHOD						

DATE: 12-21-10
PREPARED BY: Dave brownk isc
DISTRICT STUDIES & PLANS ENGINEER
EXAMINED BY: Herbeet Jung (mg)
DISTRICT CONSTRUCTION ENGINEER
May I fally
DISTRICT MATERIALS ENGINEER
Brue a Bucker
DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

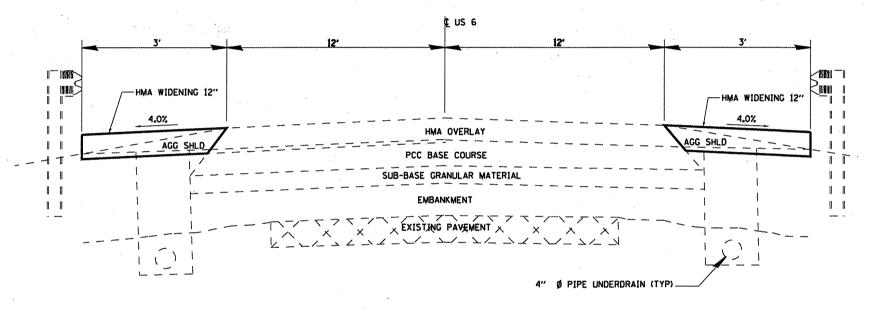
GENERA

			. [CONSTR. CODE
				STATE FUNDS
				100% STATE
			7	STRUCTURE
CODE			TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	RURAL
20200500	EARTH EXCAVATION (WIDENING)	CU YD	200	200
28100107	STONE RIPRAP, CLASS A4	SO YD	266	266
28200200	FILTER FABRIC	SO YD	347	347
28300400	AGGREGATE DITCH	TON	81	81
35600724	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	SO YD	598	598
50102400	CONCRETE REMOVAL	CU YD	11	11
50300225	CONCRETE STRUCTURES	CU YD	6.8	6.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.2	4.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2100	2100
50800515	BAR SPLICERS	EACH	26	26
52000110	PREFORMED JOINT STRIP SEAL	FOOT	86	86
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	407	407
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	358	358
78001110	PAINT PAVEMENT MARKING - LINE 4 "	FOOT	707	707
78001130	PAINT PAVEMENT MARKING - LINE 6 "	FOOT	175	175
78300100	PAVEMENT MARKING REMOVAL	SO FT	582	582
X0323265	REMOVE EXISTING RIPRAP	SO YD	87	87
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
x7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	50	50
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
• 5	SPECIALITY ITEMS			

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2247	(13C-BR)I	BUREAU	14	3
	lu more era a	CONTRACT	NO. 6	6A29



TYPICAL SECTION

** AS MEASURED ALONG E.O.P.

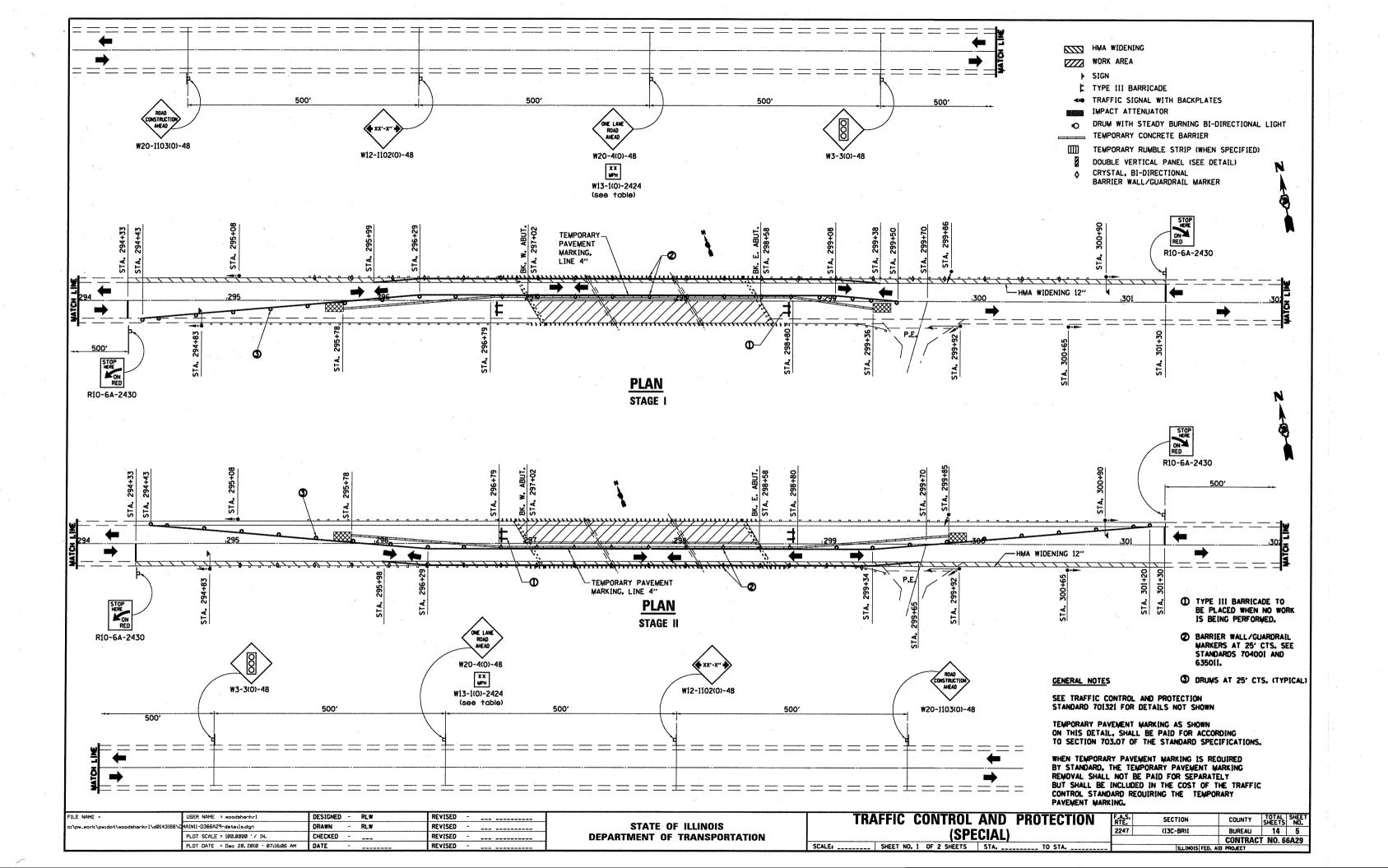
** STA. 294+33 TO STA. 269+95 LT. STA. 294+33 TO STA. 297+10 RT. STA. 298+50 TO STA. 301+30 LT.

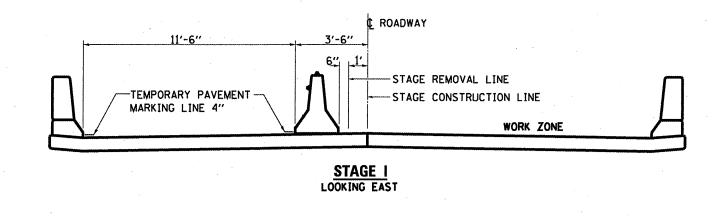
STA. 298 + 65 TO STA. 301 + 30 RT.

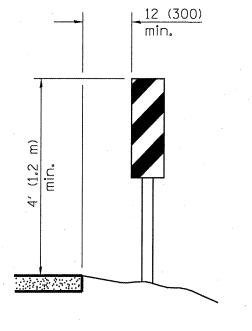
NOTE: SHOULDER WORK SHALL BE COMPLETED PRIOR TO BEGINNING STAGE I WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SHEET NO. 1 OF 1 SHEETS STA. _______ TO

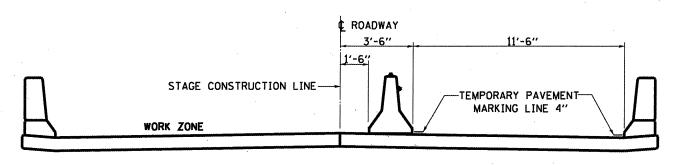






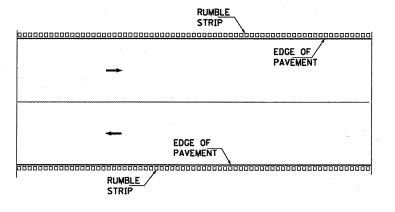
TEMPORARY CONCRETE	BARRIER
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

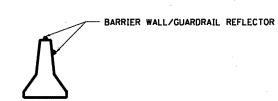
ADVISORY SPE	ED LIMIT
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph







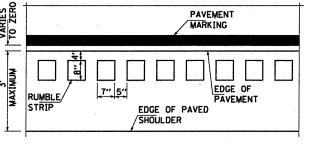




TEMPORARY CONCRETE BARRIER

PLAN

SECTION A-A





GENERAL NOTES

THIS STANDARD IS USED WHENEVER, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE, TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO TRAFFIC CONTROL AND PROTECTION STANDARD 701201.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

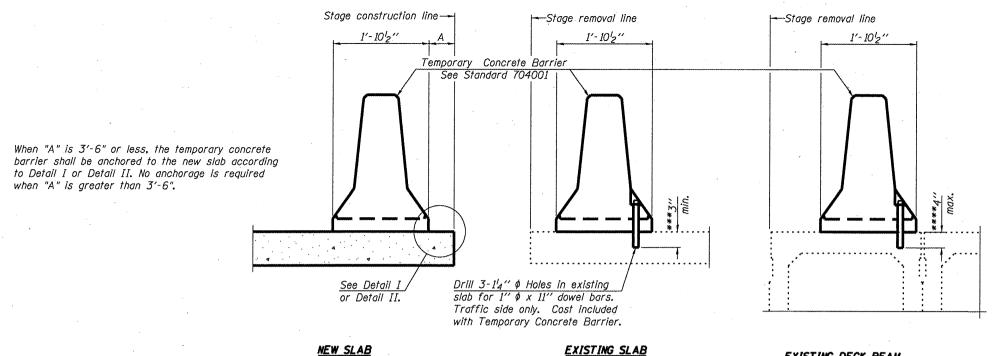
EXISTING OR TEMPORARY PAVEMENT MARKING SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR.

RUMBLE STRIPS REQUIRED ON THE EAST APPROACH TO STRUCTURE "ONLY". COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL).

OMIT RUMBLE STRIPS ACROSS STRUCTURES.

PLAN	FOR	RUMBLE	STRIP

					·		1
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NOTES

Detail I - With Bar Splicer or Couplers:

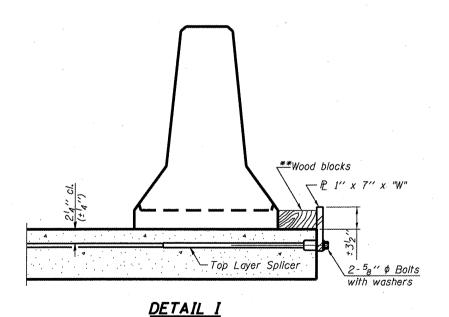
Connect one (1) 1" x 7" 'x "W" steel 12 to the top layer of couplers with 2-58" \$\phi\$ bolts screwed to coupler at approximate & of each barrier panel.

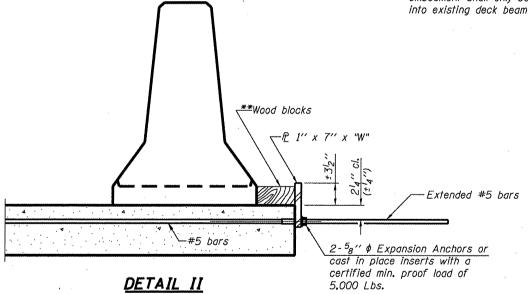
Detail II - With Extended Reinforcement Bars: Connect one (1) 1" x 7" x "W" steel £ to the concrete slab or concrete wearing surface with 2-58" \$\phi\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate & of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The I'' x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

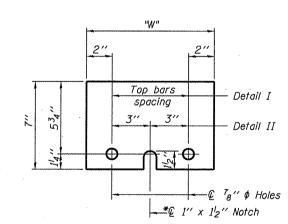
SECTIONS THRU SLAB OR DECK BEAM

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





EXISTING DECK BEAM



STEEL RETAINER P 1" x 7" x "W"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

R-27

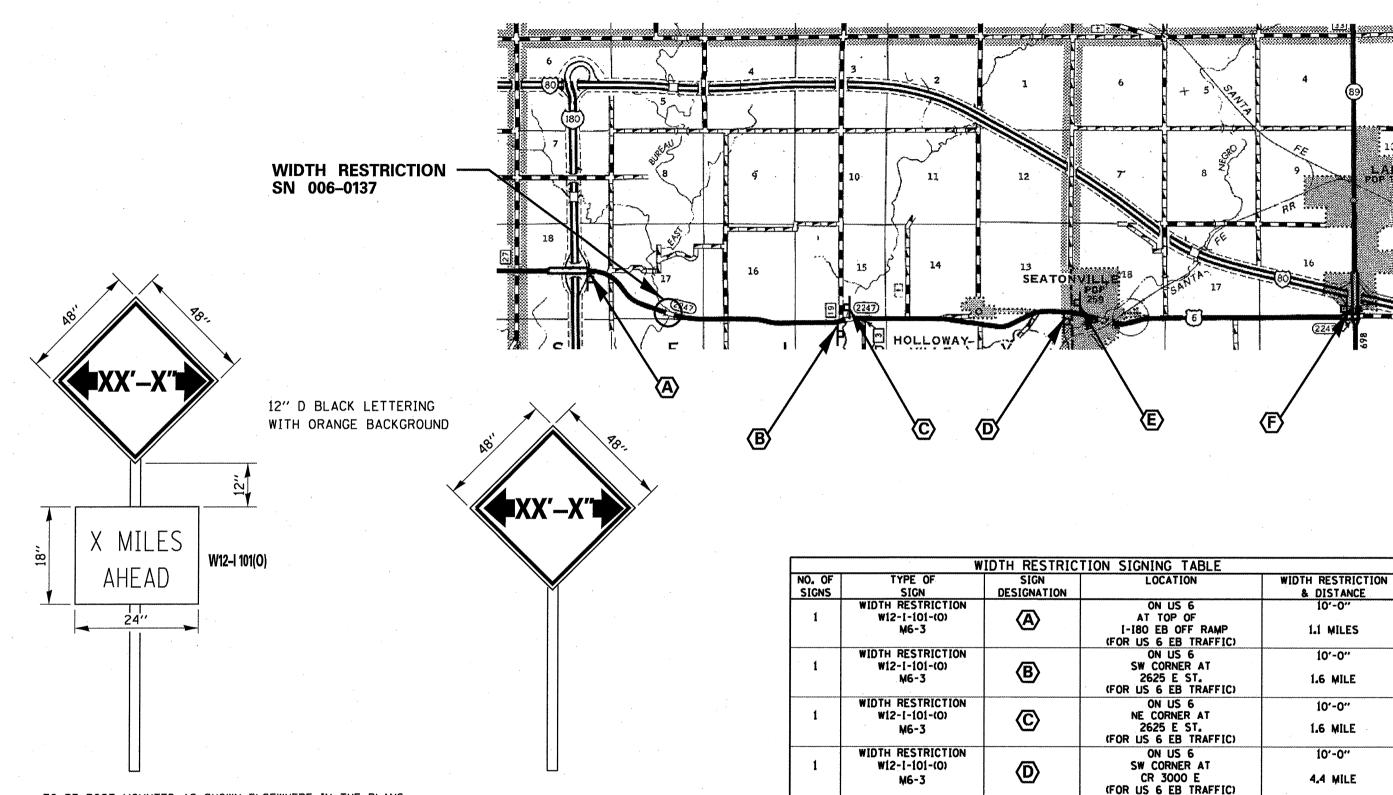
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMP	ORARY	CONCRET	E BARRIER
SCALE:	SHEET NO. 1	OF 1 SHEETS ST.	A TO STA

A.S. TE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
247	(13C-BR)I	BUREAU	14	7
		CONTRACT	NO. 6	6A29
	ILLINOIS FED. AID	PROJECT		~~~~~



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

THE ENGINEER WILL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

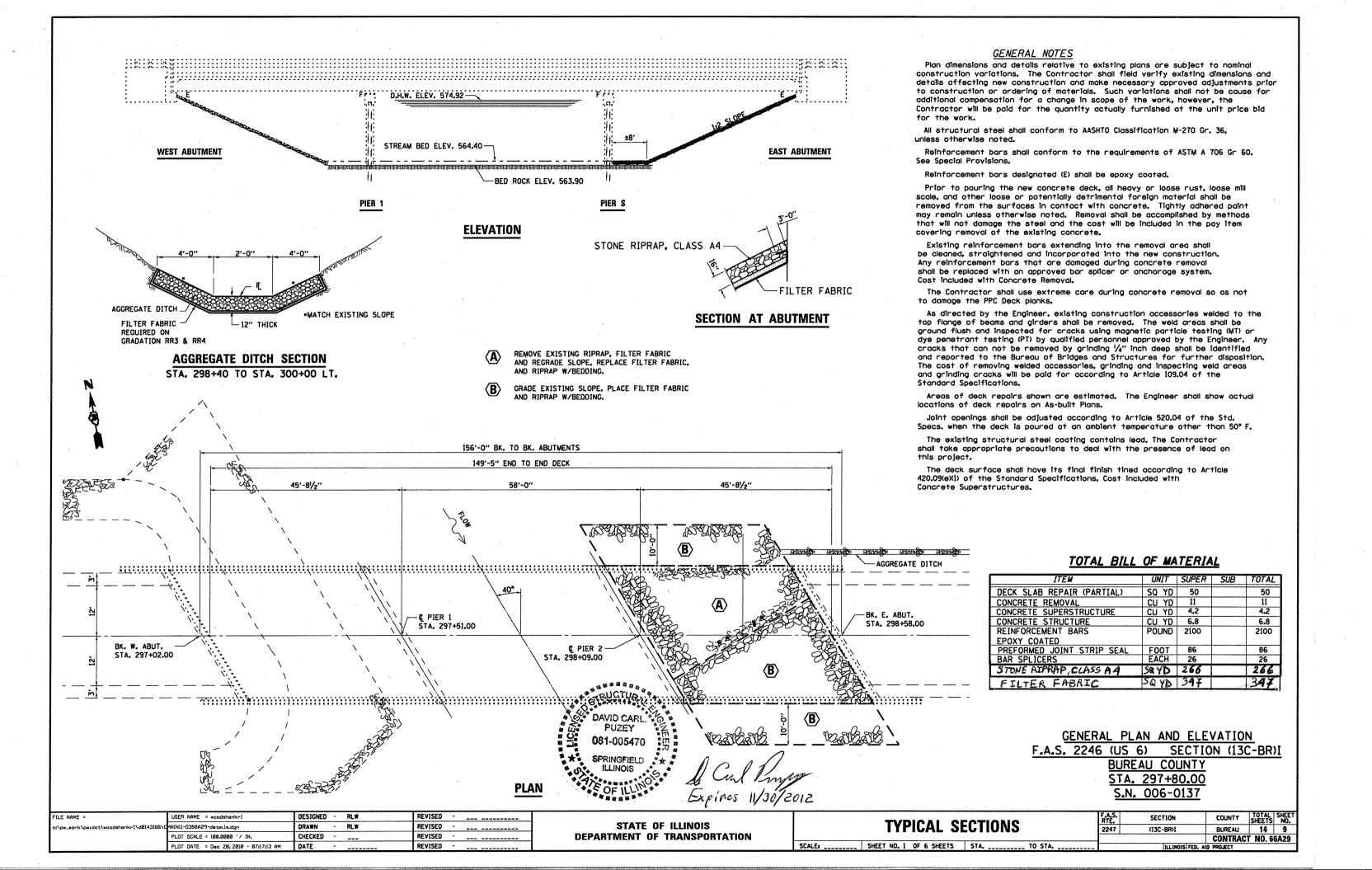
	<u> </u>		L	
1	WIDTH RESTRICTION W12-I-101-(0)	(A)	ON US 6 AT TOP OF	10'-0"
	₩6-3		I-180 EB OFF RAMP (FOR US 6 EB TRAFFIC)	1.1 MILES
1	WIDTH RESTRICTION W12-I-101-(0) M6-3	B	ON US 6 SW CORNER AT 2625 E ST. (FOR US 6 EB TRAFFIC)	10'-0" 1.6 MILE
1	WIDTH RESTRICTION W12-I-101-(0) M6-3	©	ON US 6 NE CORNER AT 2625 E ST. (FOR US 6 EB TRAFFIC)	10'-0" 1.6 MILE
1	WIDTH RESTRICTION W12-I-101-(0) M6-3	(D)	ON US 6 SW CORNER AT CR 3000 E (FOR US 6 EB TRAFFIC)	10'-0" 4.4 MILE
1	WIDTH RESTRICTION W12-I-101-(0) M6-3	Œ	ON US 6 NE CORNER AT CR 3000 E (FOR US 6 EB TRAFFIC)	10'-0" 4.4 MILE
1	WIDTH RESTRICTION W12-I-101-(0) M6-3	F	ON US 6 NW CORNER AT IL RTE. 89 FOR US 6 WB TRAFFIC)	10'-0" 7.4 MILE

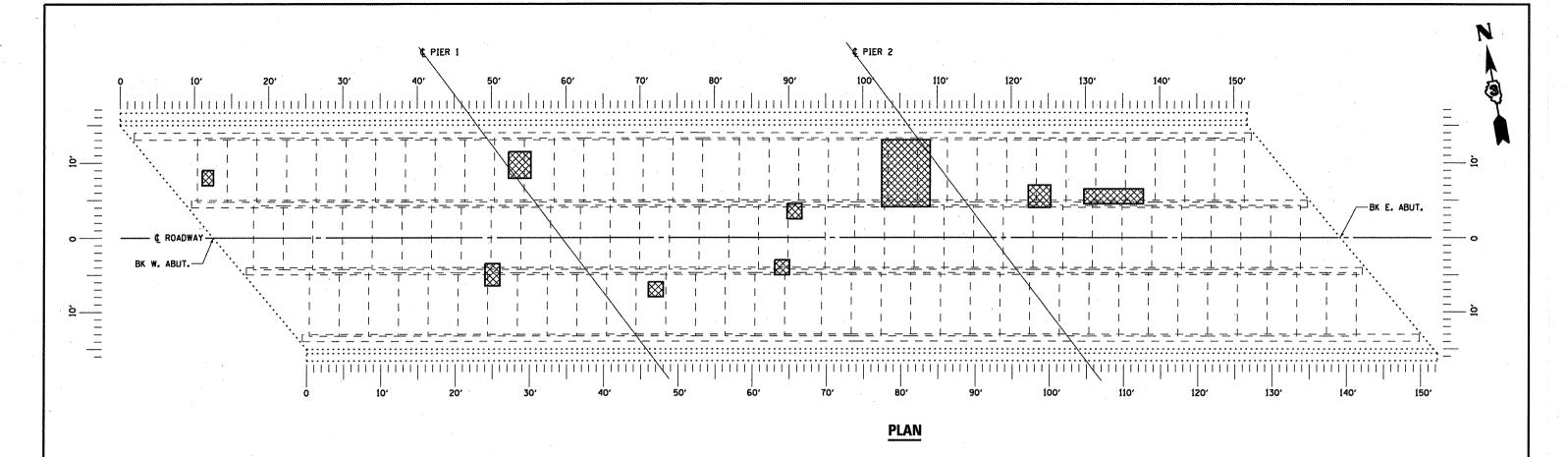
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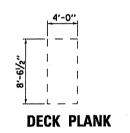
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

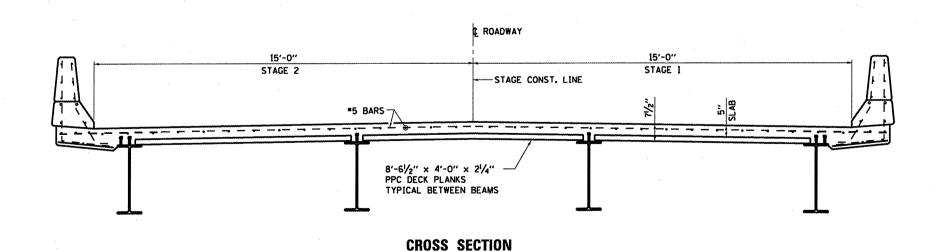
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VVI	חוע	RESTRICT		SIGNING	2247	(13C-BR)I	BUREAU	15	8
		4					CONTRACT	NO. 6	6A2
	SHEET NO.	. 1 OF 1 SHEETS	STA.	TO STA		ILLINOIS FED. A	D PROJECT		









LOOKING EAST

NOTES

CROSSED HATCHED AREAS REPRESENTS "DECK SLAB REPAIR (PARTIAL)" AREAS.

DECK SLAB REPAIR (PARTIAL) AREAS ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK SURFACE TO ESTABLISH EXACT LOCATIONS AND AREAS PRIOR TO BEGINNING REMOVAL OPERATIONS. THE QUANTITY OF PATCHING FOUND SHALL BE RECORDED ON THE "AS BUILT" SET OF PLANS.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING CONCRETE REMOVAL OPERATIONS SO THAT THE EXISTING PPC DECK PLANKS ARE NOT DAMAGED. IF THE CONTRACTOR'S REMOVAL OPERATIONS CAUSES DAMAGED TO THE DECK PLANKS, THE PLANKS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SO YD	50

DECK SLAB REPAIR (PARTIAL)

F.A.S. 2246 (US 6) SECTION (13C-BR)I

BUREAU COUNTY

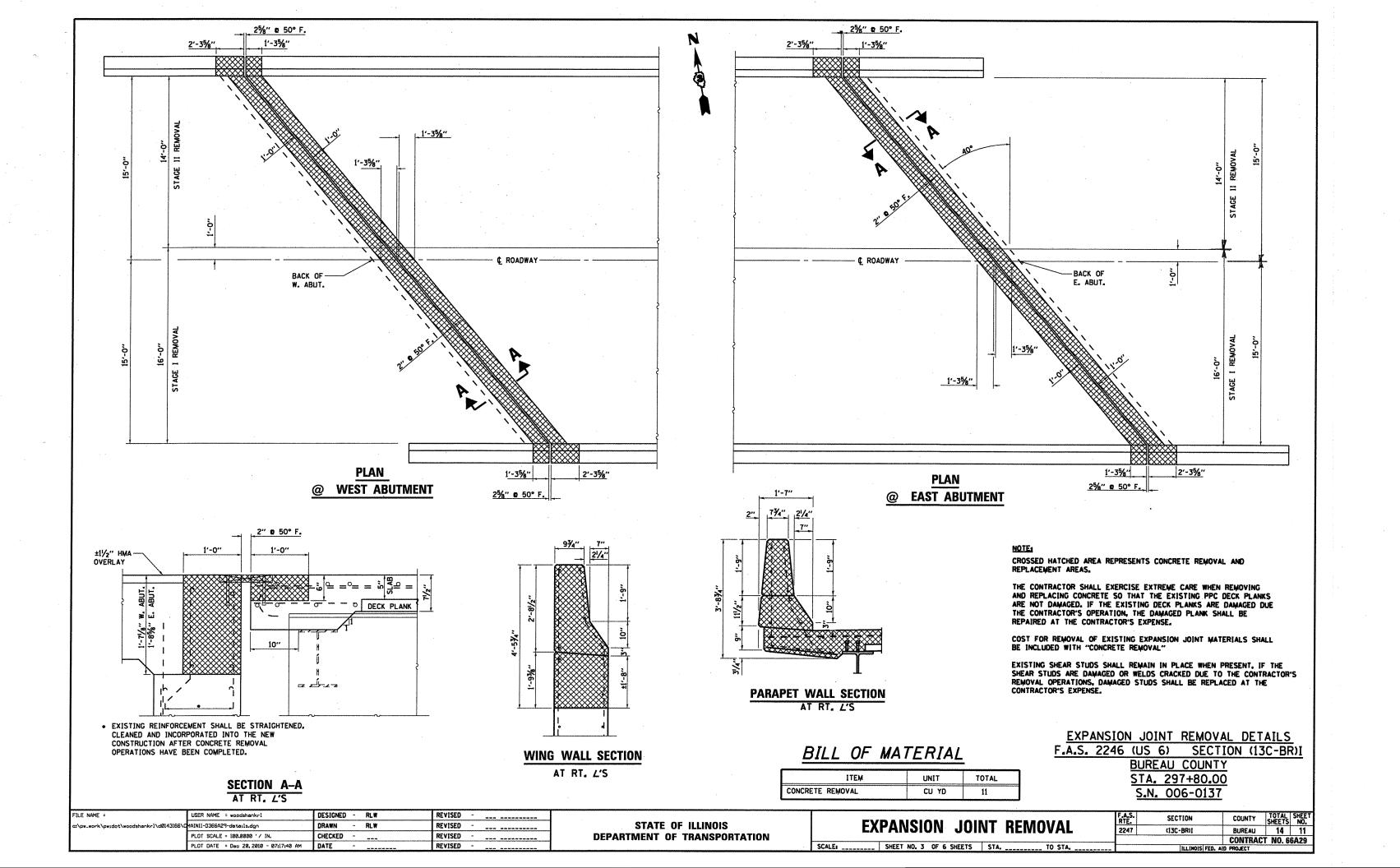
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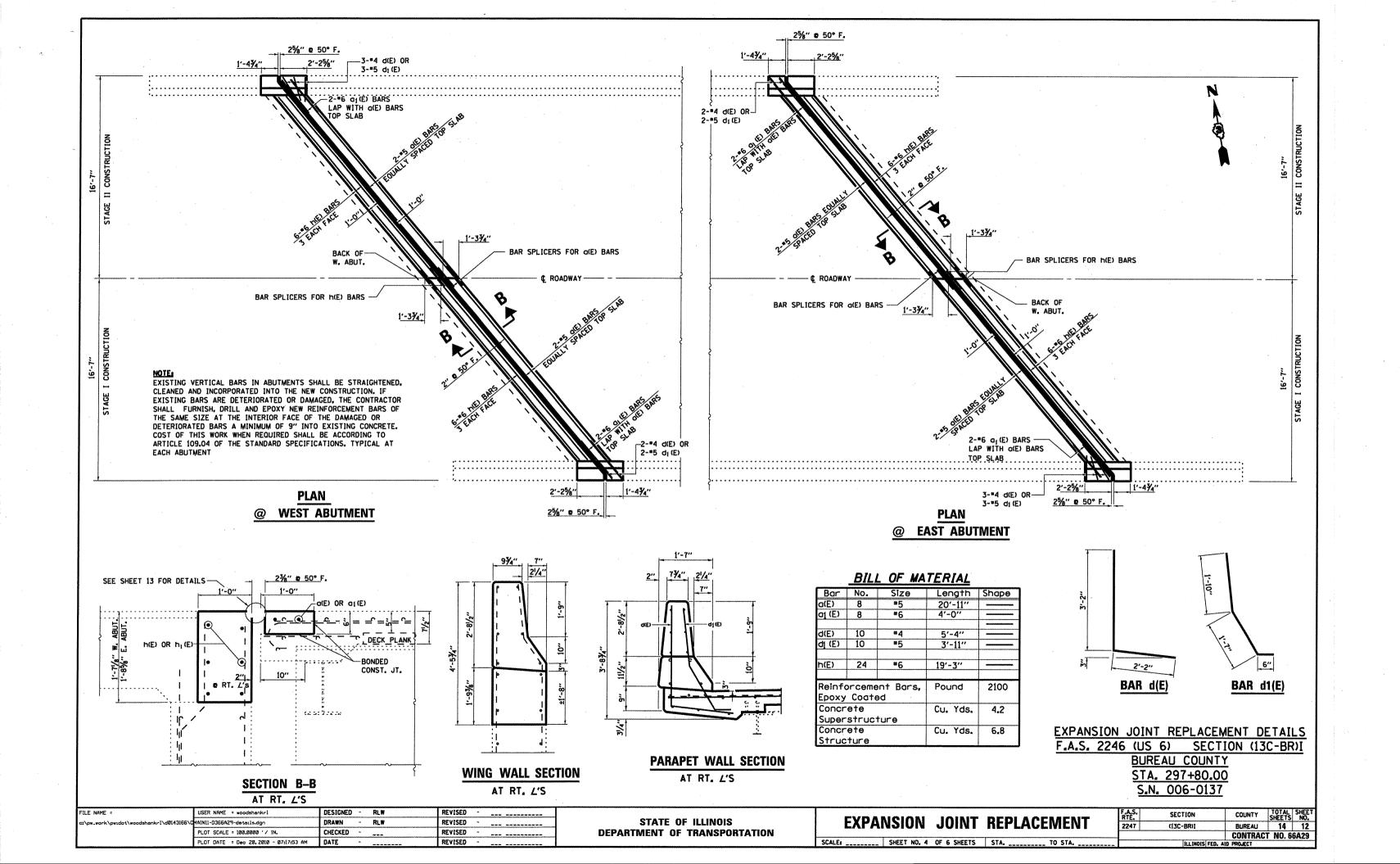
S.N. 006-0137

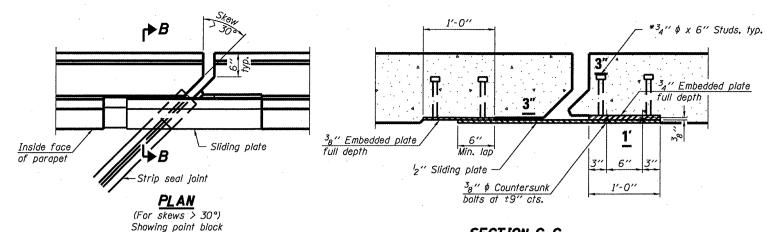
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F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
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		CONTRACT	NO. 6	6A29
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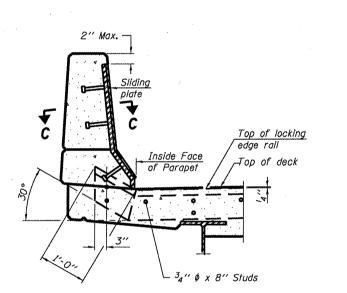




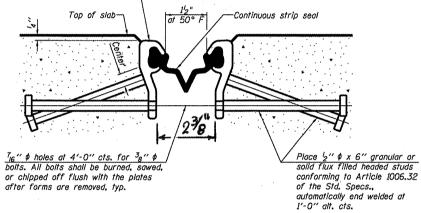


SECTION C-C

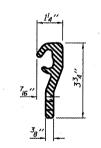
Locking edge rail-

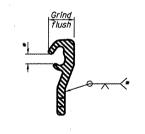


SECTION B-B



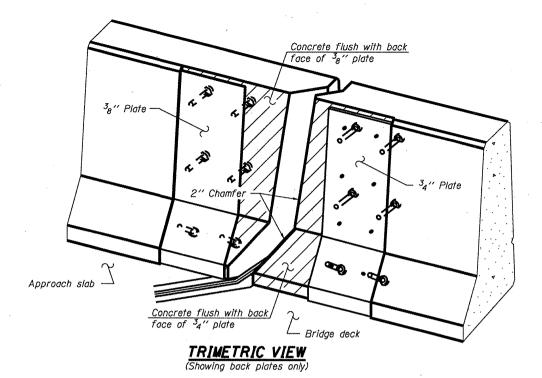
SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS





LOCKING EDGE RAIL

LOCKING EDGE RAIL SPLICE



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ${}^{l}_{4}$. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. 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.

The manufacturer's recommended installation methods shall be followed.

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

Maximum space between rail segments at stage lines shall be ³/₁₆", sealed with a suitable sealant.

shall be 3 ₁₆", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

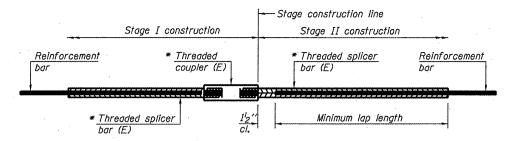
BILL OF MATERIAL

	ITE	M		UNIT	TOTAL
PREFORME) JOINT	STRIP	SEAL	FOOT	86

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STATE	OF	ILLINOIS	
DEPARTMENT	OF 1	TRANSPOR	TATION

	IFD.	IOINIT	CTDI	D CEAL	DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PREFORM	IED	JOINT	STRI	P SEAL	DETAILS	2247	(13C-BR)I	BUREAU	14	13
·								CONTRAC	r NO. 6	6A29
SCALE:	SHEET N	0,5 OF 6:	SHEETS ST	A	O STA		ILLINOIS FED. A	D PROJECT		



STANDARD BAR SPLICER ASSEMBLY

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

Table 1: Black bar, 0.8 Class C

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

Table 3: Epoxy bar, 0.8 Class C

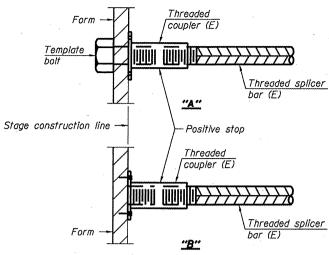
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

Threaded splicer bar length = min, lap length + l_2'' + thread length

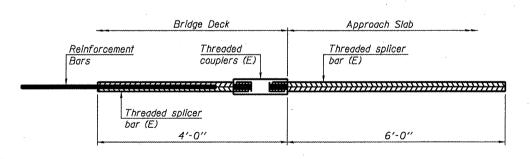
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
W. ABUT. DECK	*5	7	3
W. ABUT. END DAM	*6	6	3
E. ABUT. DECK	*5	7	3
E. ABUT. END DAM	*6	6	3
TOTAL		26	



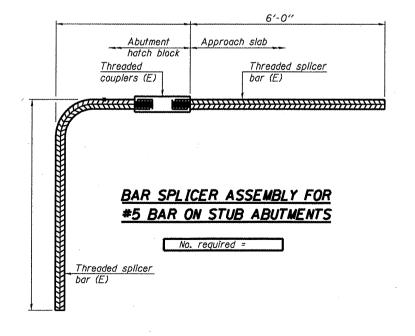
INSTALLATION AND SETTING METHODS

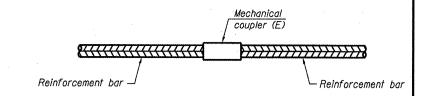
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



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

No. required =





STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

FILE NAME =	USER NAME ≈ woodshankrl	DESIGNED -	RLW	REVISED		
c:\pw_work\pwidot\woodshankrI\d0143166\0	MAIN11-D366A29-details.dgn	DRAWN -	RLW	REVISED		
	PLOT SCALE = 100.0000 '/ IN.	CHECKED -		REVISED		
	PLOT DATE = Dec 20. 2010 ~ 07:18:21 AM	DATE -		REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BAF	R SPLICER	ASSEMBL	Y AND
ME	CHANICAL	SPLICER	DETAILS
SCALE:	SHEET NO. 6 OF 6	SHEETS STA.	TO STA.

	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2247	(13C-BR)I	BUREAU	14	14
_			CONTRACT	NO. 6	6A29
. 1		ILI INDIS FED. A	D PPO CCT		