04-27-12 LETTING ITEM 171

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

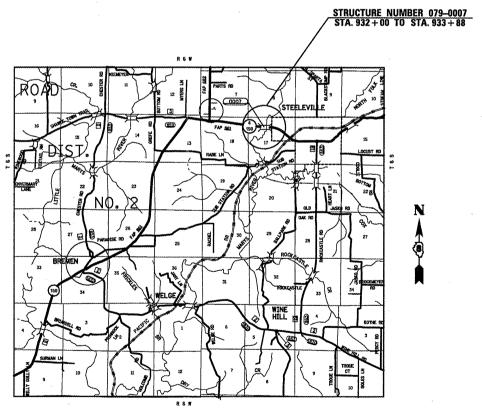
**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 861 (IL 4 /150)
SECTION 110BR-1
BRIDGE REHAB
RANDOLPH COUNTY

C-98-073-11



0 100' 200' 300' 1"= 100'
0 10' 20' 30' 1"= 10'
0 50' 100' 1"= 50'
0 50' 100' 1"= 40'
0 50' 100' - 1"= 30'
0 50' 100' - 1"= 30'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER - PATTI LEBEAU (618)346-3179 PROJECT MANAGER - HERVE GELIN (618)346-3323 .I.E.....

ADT: 5600 (2011)

6800 (2031) SU: 5.5%

0 MI 1 MI 2 MI 3 MI

GROSS LENGTH = 188.00 FT. = 0.036MILE

NET LENGTH = 188.00 FT. = 0.036MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 76F07

0

**LATITUDE 38.0068** 

LONGITUDE 89.6797

JO DAYJESS STEPHENSON WINNEBAGO BOONE M

CARROLL OGLE

DE KALB

WHITESIDE

LEE

ROCK ISLAND

HENRY

STARK

MANSHALL

STARK

MANSHALL

110BR-1

RANDOLPH 14 1

STARK MARSHALL

STARK MARSHALL

FEDRIA WOODFORD

IROOUDIS

MACCOCK

MC DONOUGH FULTON

TAZEWELL

MC LEAN

FORD

IROOUDIS

SCHUYLER

ADAMS

BROWN

CASS

MEMARD

MACOUPIN

MCNTCOMERY

CIMBERLAND

CLARK

COLES

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LOCATION OF SECTION INDICATED THUS: - -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

UBMITTED Fabruary 9 20 12

DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
March 23 20 12

John D. Baranzelli P.E. B.

acting Engineer of Design and Environment

March 23 20 12

[Uilliams R fac. | 8

William 2. Frances

William 2. Frances

DIRECTOR OF HIGHWAYS CHIEF ENGINEER

### INDEX OF SHEETS

- COVER SHEET
- 2. INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS
- 3. 4. SUMMARY OF QUANTITIES
  - 5. TYPICAL SECTIONS AND MILLING DETAILS
- 6. SCHEDULES OF QUANTITIES
- 7. 14. STRUCTURE PLANS

## HIGHWAY STANDARDS

000001-06

001001-02

001006

701006-03 701011-02

701306-03

701311-03

701321-12

701901-02

704001-07 780001-03

781001-03

### COMMITMENTS

NONE

### GENERAL NOTES

- 1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \* EGYPTIAN TELEPHONE COOP. ASSN.
  - \* FRONTIER NORTH, INC.
  - \* VILLAGE OF STEELEVILLE

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 4. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 6. TWO CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED ONE WEEK PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE BOARDS SHALL BE PLACED ALONG IL 150 AS DIRECTED OF THE ENGINEER.
- 7. OVERNIGHT DROP-OFFS WILL NOT BE PERMITTED NEXT TO AN OPEN LANE OF TRAFFIC.
- 8. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS CONTRACT:

MIXTURE USE	SURFACE	BINDER/WIDENING
AC/PG	PG 64~22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=90
MIX COMPOSITION	IL 12.5/9.5	IL 19.0
(GRADATION MIXTURE)		FINE GRADED BIND
FRICTION AGG	MIXTURE "D"	MIXTURE "B"

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

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ļ	PLOT DATE = 2/7/2012	DATE -	•	 REVISED	-	

	INDEX OF SHEETS, HIGHWAY STANDARD GENERAL NOTES, COMMITMENTS	S
E:	SHEET NO OF SHEETS STA	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
861	110BR-1	RANDOLPH	14	2
		CONTRACT	NO. 7	6F07
 FED. RO	DAD DIST. NO ILLINOIS FED. AI	D PROJECT		

## SUMMARY OF QUANTITIES

***************************************	CHANAA	DV OF OUANITITIE	. C		<del> </del>	UCTION TYPE CODE	, , , , , , , , , , , , , , , , , , ,	CILLALAA	DV OF	$\cap$ IIANITITIC	C		CONST	RUCTION TYPE CODE
<del></del>	SUMMA	RY OF QUANTITIE		TOTAL	0014		0005 :::	SUMMA		QUANTITIE		TOTAL	100% STATE	
CODE NO		ITEM	UNIT	QUANTITIES	0014		CODE NO	***************************************	ITEM		UNIT	QUANTITIES	0014	
20200500	EARTH EXC	AVATION (WIDENING)	CU YD	10	10		52000110	PREFORMED	JOINT STRIP	SEAL	FOOT	89	89	
35600716	HOT-MIX AS	SPHALT BASE COURSE WIDENING,	SQ YD	178	178		58100200	WATERPROOF	ING MEMBRANE	SYSTEM	SQ YD	852	852	
	10"													
							67000400	ENGINEER'S	FIELD OFFIC	E, TYPE A	CAL MO	6	6	
40500200	BITUMINOUS	S MATERIALS (PRIME COAT)	TON	0.1	0.1		67100100	MOBILIZATI	ON		L SUM	1	1	
40600300	AGGREGATE	(PRIME COAT)	TON	1	1						2 00111		-	
							70100405	TRAFFIC CO	NTROL AND PR	OTECTION,	EACH	1	1	
40600990	TEMPORARY	RAMP	SQ YD	95	95			STANDARD	701321					
40603345	HOT-MIX AS	SPHALT SURFACE COURSE, MIX	TON	86	86		70100460	TRAFFIC CO	ONTROL AND PR	OTECTION,	L SUM	1	1	
44000157	HOT-MIX AS	SPHALT SURFACE REMOVAL, 2"	SQ YD	1095	1095		70106500	TEMPORARY	BRIDGE TRAFF	IC SIGNALS	EACH	1	1	
44004250	PAVED SHOU	JLDER REMOVAL	SQ YD	178	178		70106700	TEMPORARY	RUMBLE STRIP	S	EACH	6	6	
50102400	CONCRETE F	REMOVAL	CU YD	14	14		70106800	CHANGEABLE	MESSAGE SIG	N	CAL MO	2	2	
50300255	CONCRETE S	SUPERSTRUCTURE	CU YD	15.5	15. 5		70400100	TEMPORARY	CONCRETE BAR	RIER	FOOT	562.5	562.5	
50300300	PROTECTIVE	E COAT	SQ YD	191	191		70400200	RELOCATE 1	EMPORARY CON	CRETE BARRIER	FOOT	562.5	562.5	
50800205	REINFORCEN	MENT BARS, EPOXY COATED	POUND	2400	2400	k	78000200	THERMOPLAS	TIC PAVEMENT	MARKING - LINE	FOOT	2378	2378	
								4"						
50800515	BAR SPLICE	:RS	EACH	32	32		78100100	RAISED REF	LECTIVE PAVE	MENT MARKER	EACH	10	10	
			l		L	* SPECIA	<sub> 0</sub> L						LL	
LE NAME =		USER NAME = gelinh DESIGNED -		REVISED -									F.A.P. SECTION	COUNTY TOTAL SHE
\pw_work\pwidot\geli	linh\d0266267\D876F0	7-st-plan.dgn DRAWN -	AMERICA	REVISED	_	STATE OF IL				SUMMARY OF QUA	NTITIES		861 110BR-1	RANDOLPH 14 3
	1_	PLOT SCALE = 100.0000 '/ in.		REVISED	-	DEPARTMENT OF TR	IANSPURIAT	IUN	SCALE:	SHEET NO OF SHEETS	STA. TO	STA	FED. ROAD DIST. NO ILLI	CONTRACT NO. 76F0

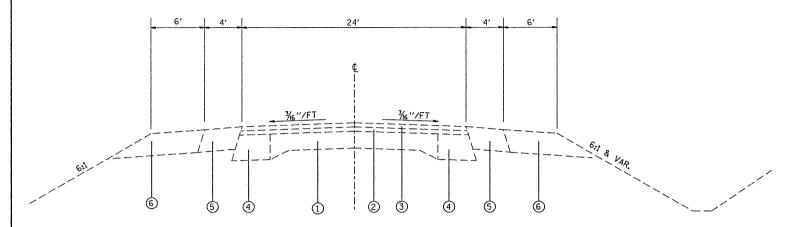
## SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014 100%.STATE			
						***************************************	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	529	529			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	ij		
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1			
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO.	L SUM	1	1			
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	2	2			
	REDIRECTIVE), TEST LEVEL 3						
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
***************************************							
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DEPARTMENT	OF '	TRANSPORTATION	

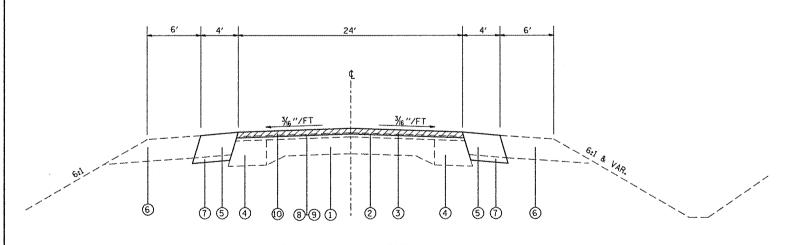
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	SUMMARY OF QU	861	110BR-1	RANDOLPH	14	4	
· · · · · · · · · · · · · · · · · · ·	***************************************	CTA TO CTA			CONTRACT	NO. 7	6F07
SCALE:	SHEET NO OF SHEETS		OAD DIST. NO ILLINOIS FED. AI				



## EXISTING TYPICAL SECTION

STA. 929+00.00 TO STA. 931+20.68\* STA. 933+08.53 TO STA. 935+50.00\*

\*BRIDGE APPROACH PAVEMENT STA. 931+00.68 TO STA. 931+20.68 STA. 933+08.53 TO STA. 933+28.53



## EXISTING TYPICAL SECTION

STA. 930+90.68 TO STA. 933+38.53

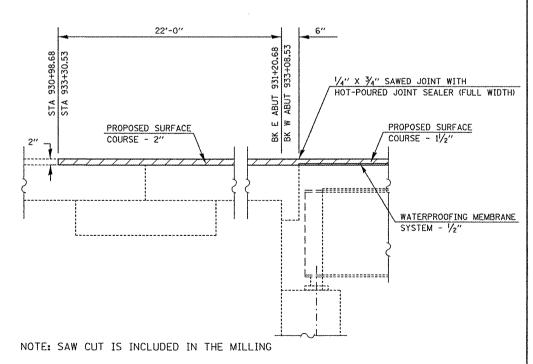
HMA SURFACE REMOVAL, 2"

## LEGEND

- 1 EXISTING PAVEMENT (9-6-9)
- 2 EXISTING HOT-MIX ASPHALT BINDER, 11/2"
- (3) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 11/2"
- (4) EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (5) EXISTING STABILIZED SHOULDERS, 8"
- (6) EXISTING AGGREGATE SHOULDER, TY A
- PROPOSED HOT-MIX ASPHALT WIDENING, 10"
- (B) PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- PROPOSED AGGREGATE (PRIME COAT)
- 10 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 2"\*

OVER THE BRIDGE 11/2" HOT-MIX ASPHALT 1/2" WATERPROOFING

## MILLING JOINT DETAIL DRAWING NOT TO SCALE



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	TYPICAL SECTIONS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	MILLING DETAILS	861	110BR-1	RANDOLPH	14	5
1				CONTRACT	NO. 7	6F07
1	SCALE: SHEET NO OF SHEETS STA TO STA	FED. RO	DAD DIST. NO ILLINOIS FED. AL	D PROJECT	************	

## RESURFACING SCHEDULE

STATION		HMA BASE COURSE WIDENING 10" (SQ YD)	AGG. PRIME COAT (TON)	BIT. MAT'L PRIME COAT (TON)	WATERPROOFING MEMBRANE SYSTEM (SQ YD)	HMA SURF. CSE., MIX "D", N90 (TON)
930+00.68 RT/LT TO 931+00.68 R	T/LT	88.89				
930+98.68 RT/LT TO 931+21.18 F	T/LT		0.09	0.02		6.72
931+21.18 RT/LT TO 933+08.03 F	T/LT				852,00	72.00
933+08.03 RT/LT TO 933+30.53 R	T/LT		0.09	0.02		6.64
933+28.53 RT/LT TO 934+28.53 F	T/LT	88.89				
				.,		
TOTAL		177.78	0.18	0.04	852.00	85.36

## REMOVAL SCHEDULE

	STA	ATION		HMA SURF REMOVAL 2" (SQ YD)	PAVED SHOULDER REMOVAL (SQ YD)	RAISED REFL. PVMT. MRK REMOVAL (EA)	PAVEMENT MARKING REMOVAL (SQ YD)
927+80.85	TO	930+98.68	RT/LT				211.89
927+80.85	TO	930+98.68	CL				26.49
927+80.85	TO	935+98.35	CL			10	
930+98.68	TO	933+30.53	RT/LT	1094.85			
930+00.68	TO	931+00.68	RT/LT		88,89		
933+28.53	TO	934+28.53	RT/LT		88.89		
933+30.53	TO	935+98.35	RT/LT				178.55
933+30.53	TO	935+98.35	CL				111.59
TOTAL				1094.85 *	177.78	10	528.52

<sup>\*</sup> QUANTITY INCLUDES BRIDGE AND APPROACHES

## PAVEMENT MARKING SCHEDULE

					THERM	OPLASTIC PVM	T MKG	
	STATIC	n N			4" WHITE LINE (FT)	YELLOW SKIP DASH LINE (FT)	4" YELLOW LINE (FT)	RSD REFL PMVT MKRS TWO-WAY (EA)
927+80.85 F	RT/LT TO	935+98.35	RT/LT	EDGE LINES	1635.00			
927+80.85	TO	930+60.68		CENTER LINE		69.96		3
930+60.68	TO	935+98.35	~	CENTER LINE		134.42	537.67	7
	SUB TO	TAL			1635.00	204.38	537.67	
	TOTAL	-				2377.05		10

## EARTHWORK (WIDENING) SCHEDULE

		LOC	ATION		LENGTH (FT)	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) ( CU YD)
STA	930+00.68	TO	STA	931+00.68	200.00	4.9	3.7	0.0	3.7
STA	933+28.53	TO	STA	934+28.53	200.00	4.9	3.7	0.0	3.7
		TC	TAL		400.00	9.8	7.4	0.0	7.4

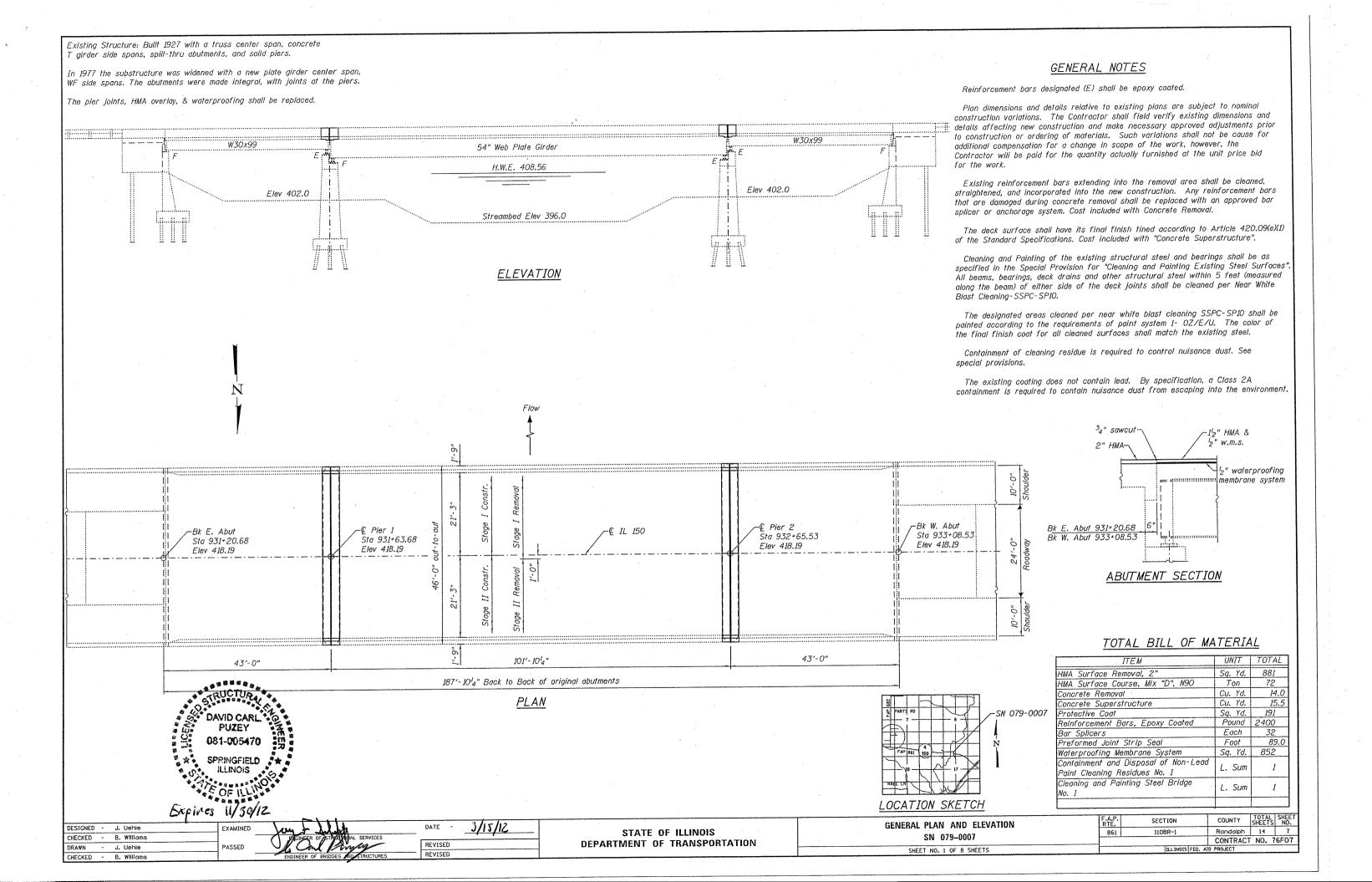
## TEMP. CONCRETE BARRIER SCHEDULE

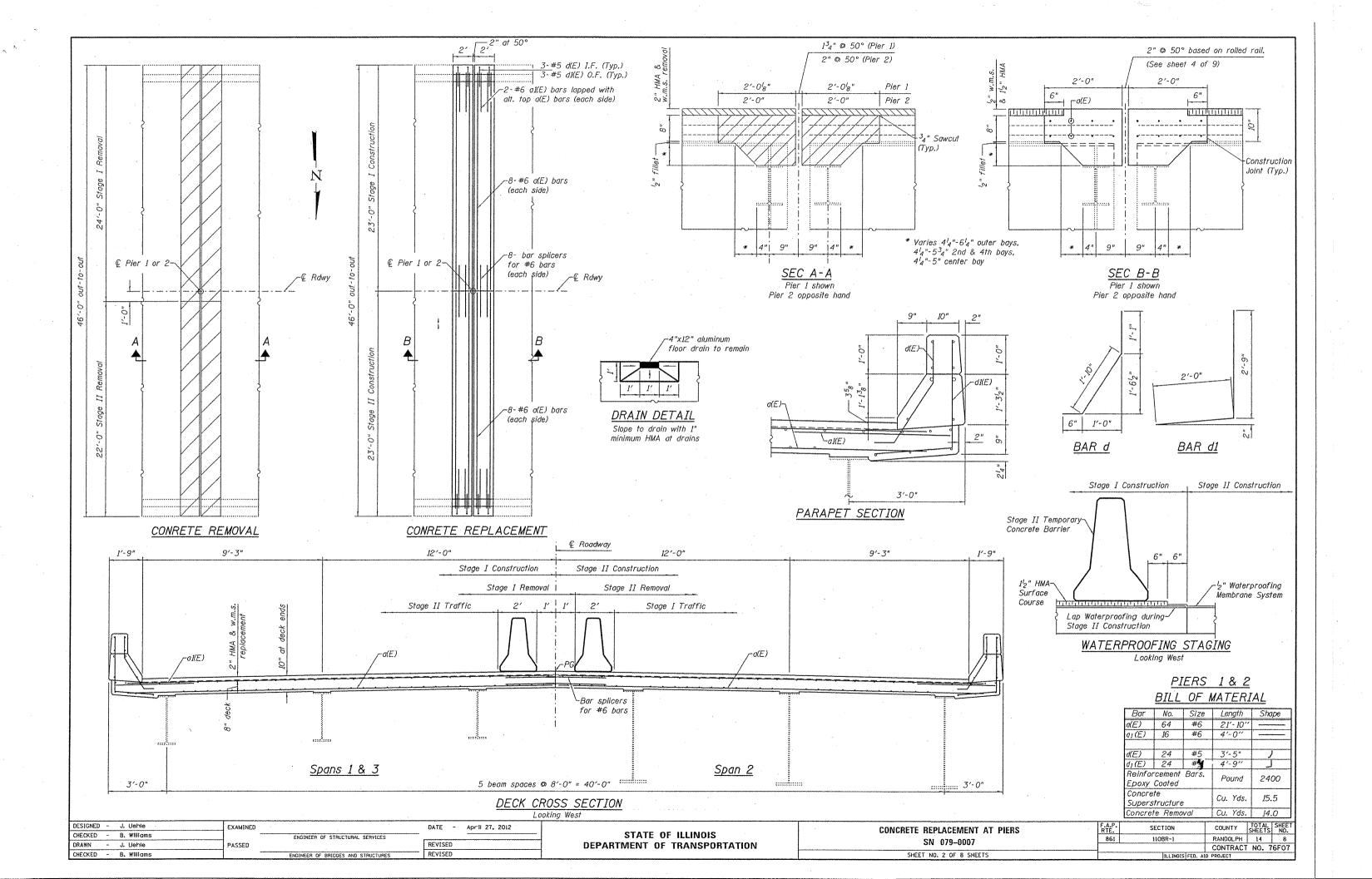
		CONC BAR	ORARY CRETE RIER OOT)		
	LOC	ATION		STAGE I	STAGE II
929+18.75	TO	930+56.25	RT/LT	137.50	137.50
930+56.25	TO	933+43.75	RT/LT	287.50	287.50
933+43.75	TO	934+81.25	RT/LT	137.50	137.50
	TO	562.50	562.50		

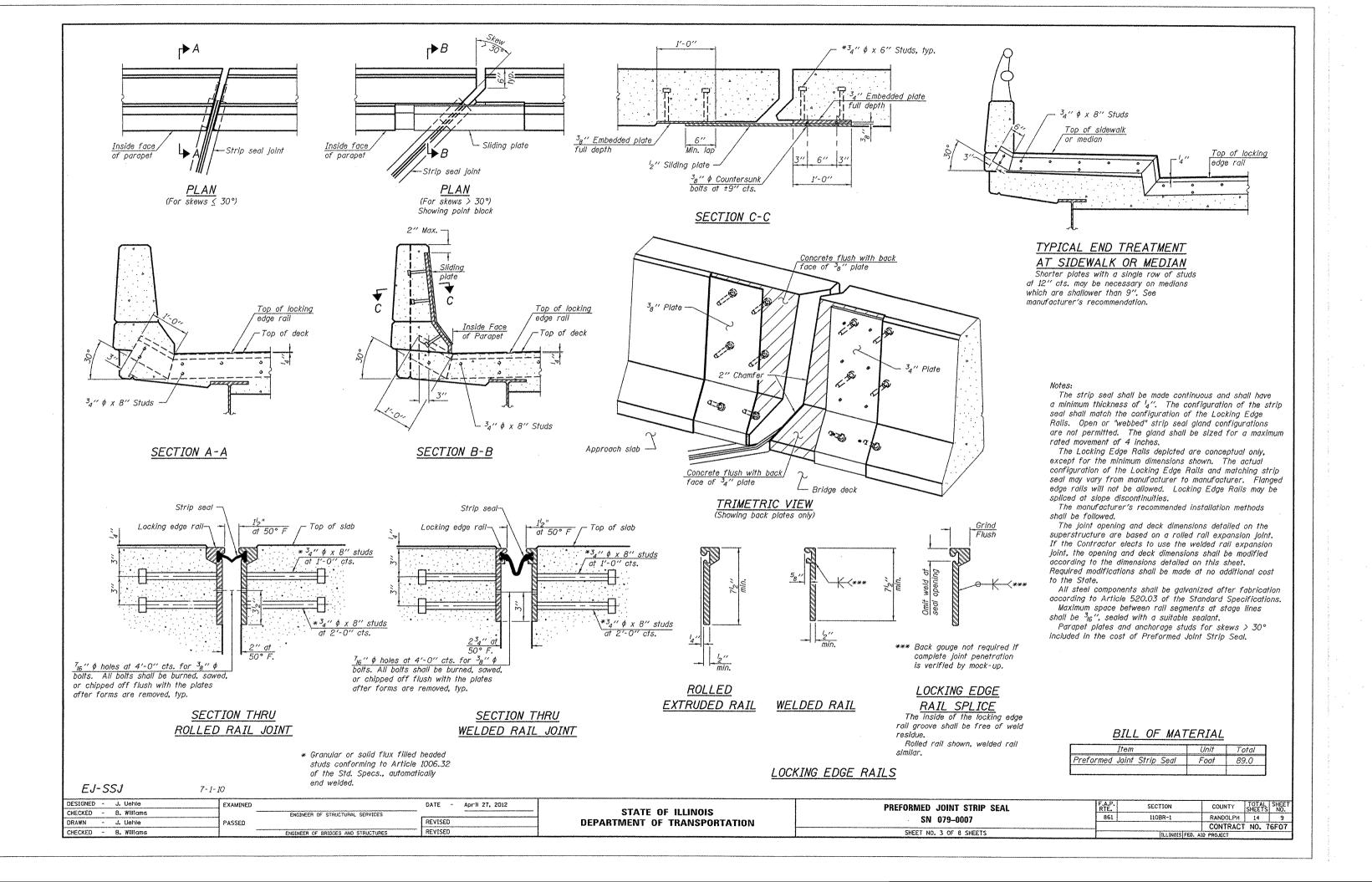
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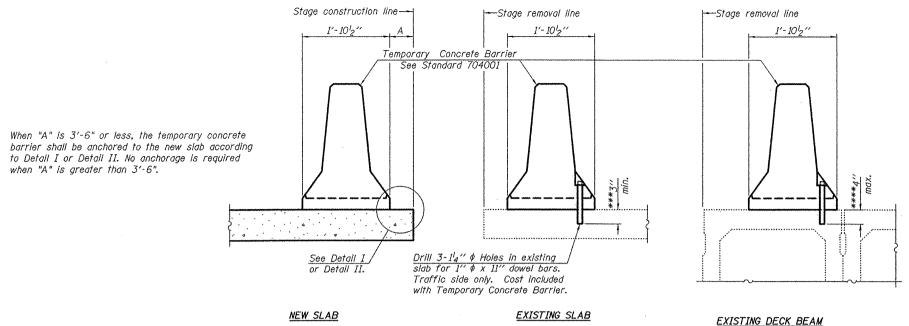
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DEPARTMENT	OF	TRANSPORTATION

OOUENWES OF OURSETTED		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULES OF QUANTITIES		198	110BR-1	RANDOLPH	14	6
				CONTRACT	NO.	76F07
SCALE: SHEET NO OF SHEETS   STA	TO STA	FED. RO	AD DIST. NO ILLINOIS FED. A	ID PROJECT		









## NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) 1" x 7" 'x "W" steel £ 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 (I) 1" x 7" x "W" steel £ to the concrete slab or concrete wearing surface with 2-5g" \$\phi\$

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

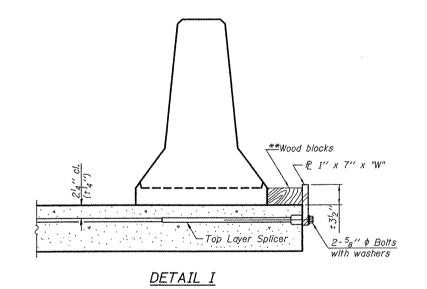
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

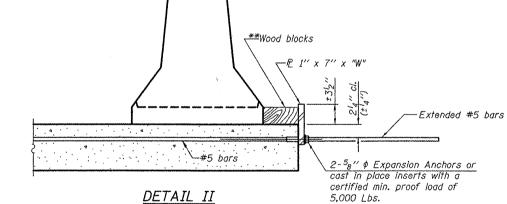
## SECTIONS THRU SLAB OR DECK BEAM

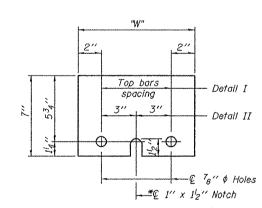
\*\*\* Dimension shown is minimum required embedment into concrete.

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.







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"

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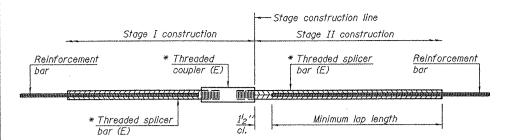
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l									
DESIGNED	-	J.	Uehle	EXAMINED		DATE	_	April 27, 2012	
CHECKED	-	в.	Williams		ENGINEER OF STRUCTURAL SERVICES			***************************************	
DRAWN	-	J.	Uehle	PASSED		REVISE	D		
CHECKED	-	8.	Williams		ENGINEER OF BRIDGES AND STRUCTURES	REVISE	O.		

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION
SN 079-0007	861	110BR-1
		***************************************
SHEET NO. 4 OF B SHEETS	ı	171.1.7440

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
861	110BR-1	RANDOLPH	14	10
		CONTRACT	NO. 7	6F07
	THE THOTO COD AT	D DOO ICCT		



## 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

Bridge Deck

4'-0"

Threaded splicer bar (E)

Threaded

couplers (E)

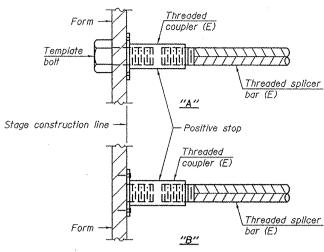
Reinforcement

Bars

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,

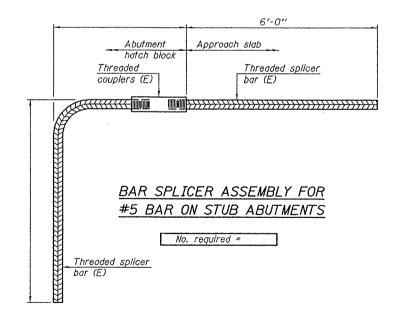
Location	Bar size	No. assemblies required	Table for minimum lap length
Deck Ends at Piers	#6	32	3'-1"

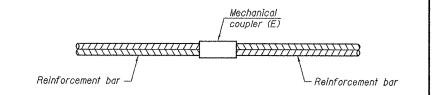


## INSTALLATION AND SETTING METHODS

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

(E): Indicates epoxy coating.





## STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
		**************************************
		*****

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

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for

alternatives.

BSD-1

7-1-10 DESIGNED - J. Uehle April 27, 2012 EXAMINED DATE ~ CHECKED - B. Williams ENGINEER OF STRUCTURAL SERVICES REVISED DRAWN - J. Liehle PASSED REVISED CHECKED - B. Williams

BAR SPLICER ASSEMBLY FOR #5 BAR ON

INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required ≈

Approach Slab

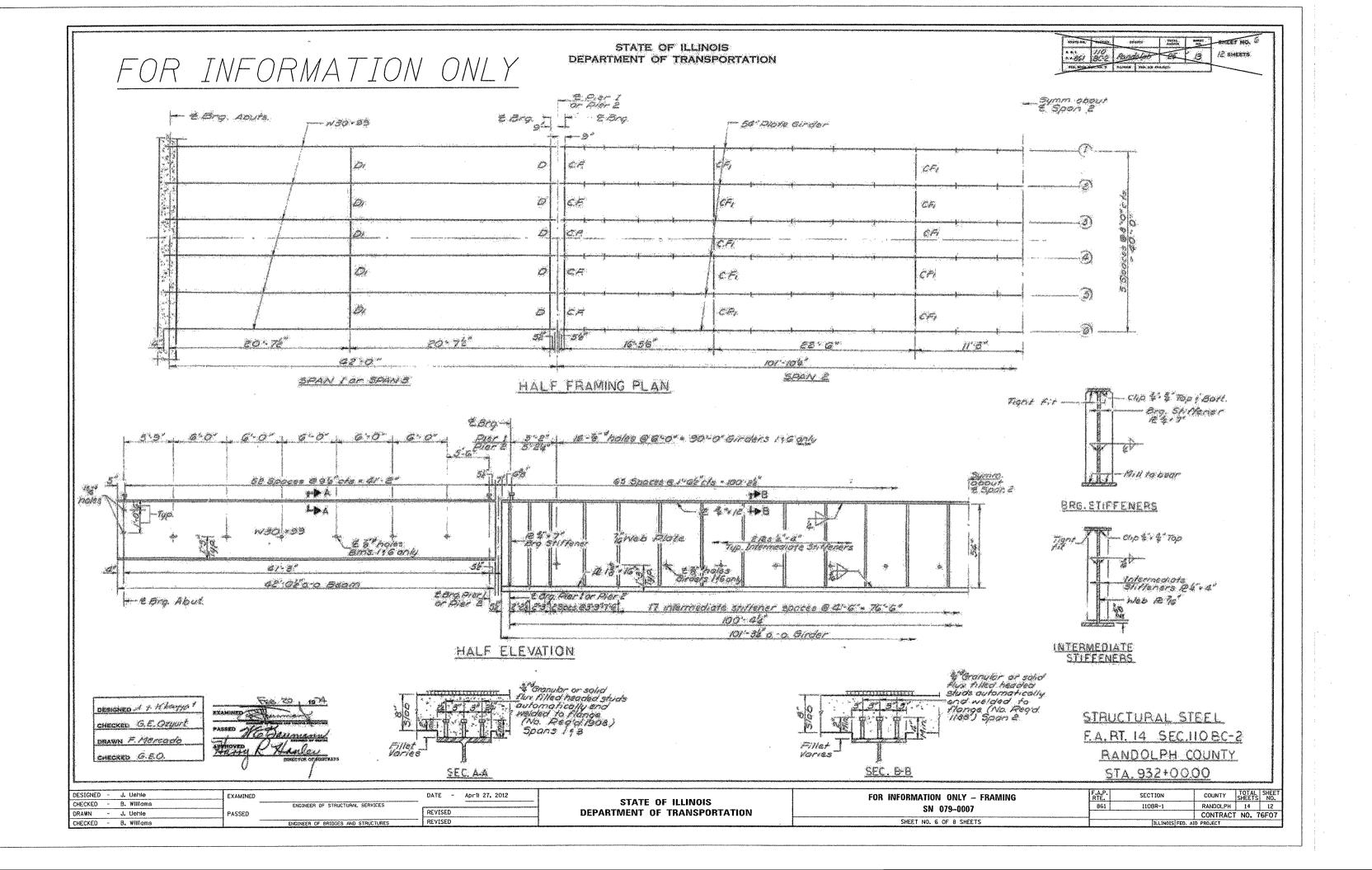
6'-0"

Threaded splicer

bar (E)

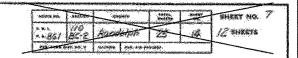
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 079-0007 SHEET NO. 5 OF 8 SHEETS

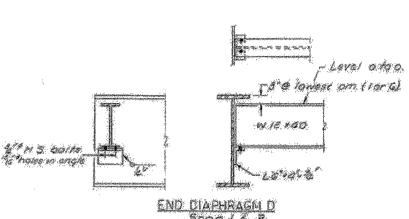
COUNTY TOTAL SHEET NO. F.A.P. RTE. 861 SECTION RANDOLPH 14 11 110BR-1 CONTRACT NO. 76F07 ILLINOIS FED. AID PROJECT

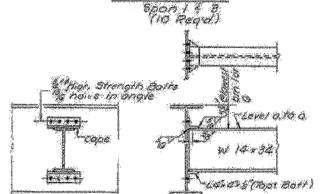


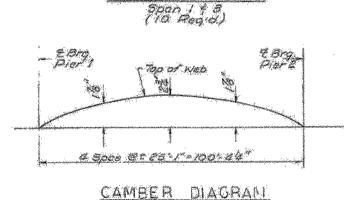
# FOR INFORMATION ONLY

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



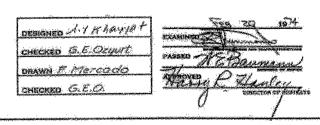


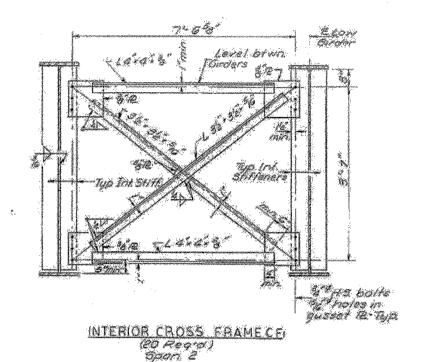


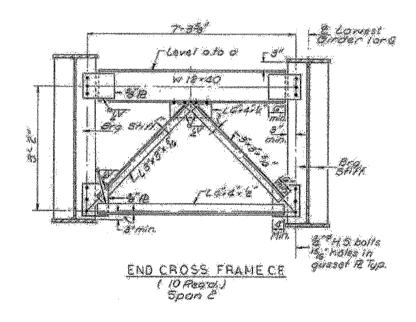


5,00n E

INTERIOR DIAPHRAGM DI







Note: Hordened mashers shall be required over is holes in angles + gussets it's

### MONSOT TARLE

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	Sc (in €)	416.1	1678.8
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	M 12 1747		7575.77
	15 Q KSL	8.88	1271
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	15 Total (Est)	2449	2045
	VA (£)	52.66	58.02
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- Annahaman annahaman	. samon rigidans		and the same of the		

#### Vote:

Is and as are the moment of mertia and section madulus of the steel section.

of the steel section, le ond section modulus le ond section modulus of the composite section used in computing 13, VR is the maximum le t impact shear range in spanused to determine shear connector spacing.

\* TOP OF BEAM FLEVATIONS (SPANS 1/3)

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& Bry Per I	4/7.00	4/7/7	4/7 29
E. Bry. Pier E	4/7.00	4/3/7	417.29
E Bra W. Abut	4/7.00	417.77	4/7.29

\*10P OF WEB ELEVATIONS (SPAINS)
Girden 11G Girden 21S Girden 314

9 Brg Piert 41G94 41711 41723

8 Brg Pierz 41G94 41711 41723

\* For fabrication only.

F.A.RT. 14 SEC. 110 BC=2

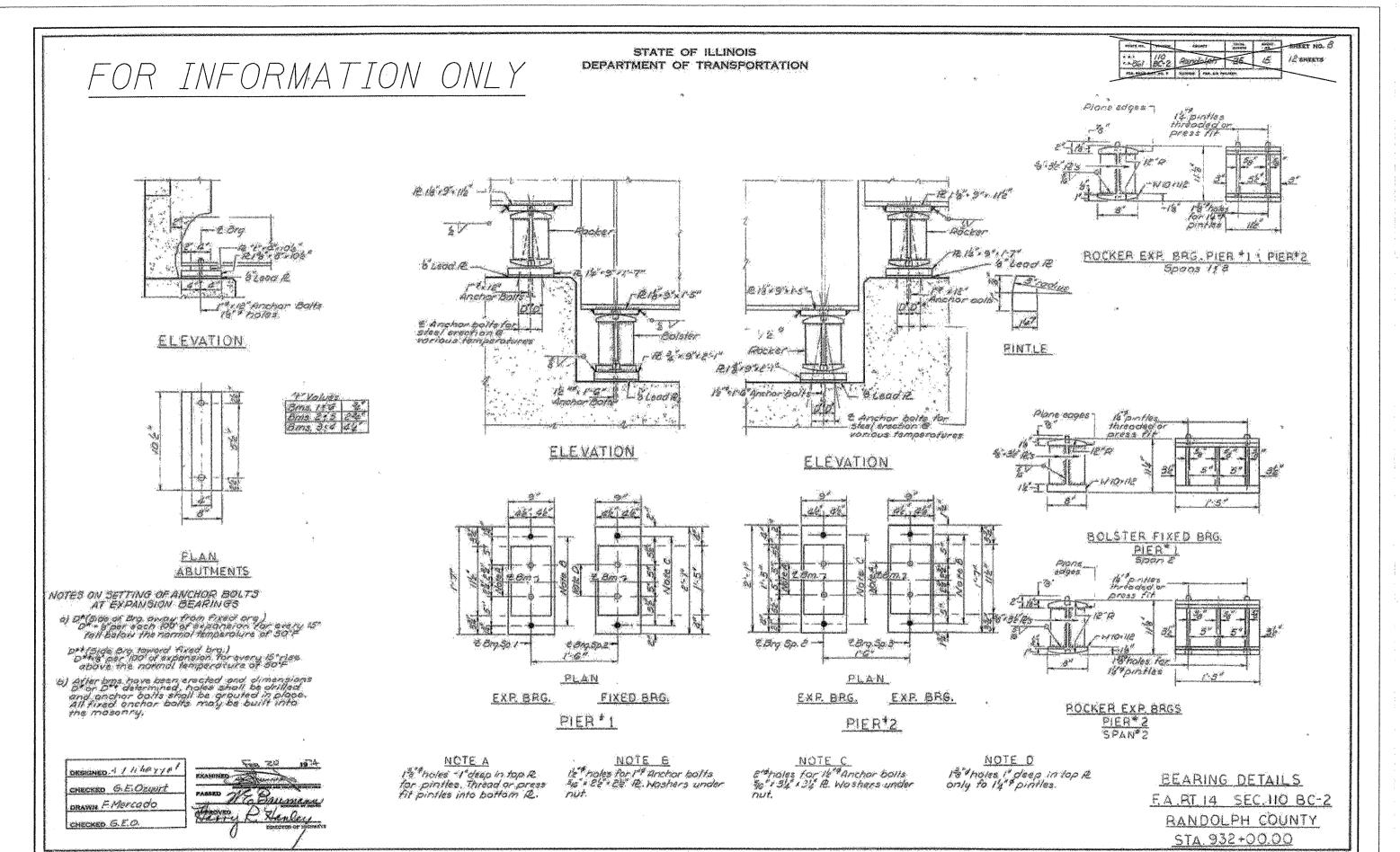
RANDOLPH COUNTY

STA. 932+00.00

SECTION 110BR-1 COUNTY TOTAL SHEET NO. RANDOLPH 14 13

CONTRACT NO. 76F07

DESIGNED - J. Uehle   CHECKED - B. Williams   DRAWN - J. Uehle	EXAMINED ENGINEER OF STRUCTURAL SERVICES PASSED	DATE ~ April 27, 2012  REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOR INFORMATION ONLY — STEEL DETAILS SN 079-0007	F.A.P. RTE. 861
CHECKED - B. Williams	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 7 OF 8 SHEETS	1



DESIGNED - J. Uehle	EXAMINED	DATE - April 27, 2012	CTATE OF BEINGIC	FOR INFORMATION ONLY - BEARINGS	F.A.P. RTE.	SECTION	COUNTY TOT	TAL SHEET EETS NO.
CHECKED - B. WIIIIams  DRAWN - J. Uehle	ENGINEER OF STRUCTURAL SERVICES PASSED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 079-0007	861	110BR-1	RANDOLPH 14	14 14 10. 76F07
CHECKED - 8. Williams	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 8 OF 8 SHEETS		ILLINOIS FED.	AID PROJECT	