INDEX OF SHEETS 03-09-12 LETTING ITEM 034

STATE OF ILLINOIS

## **DEPARTMENT OF TRANSPORTATION**

**DIVISION OF HIGHWAYS** 

# **PROPOSED** HIGHWAY PLANS

**FAI ROUTE 55 (I-55) SECTION** (53–5B–1)I–2

**BRIDGE REPAIR** LIVINGSTON COUNTY C-93-129-11

#### DECIMAL OF AN INCH AND OF A FOOT REFLECTOR MARKER AND MOUNTING DETAILS WOVEN WIRE FENCE OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION. FOR SPEEDS ≥ 45 MPH

701901-02 TRAFFIC CONTROL DEVICES 704001-07 TEMPORARY CONCRETE BARRIER

**COVER SHEET GENERAL NOTES** 

5 - 7.

000001-06

001001-02

635011-02 665001-02

701101-02

701426-04

0

0

001006

**SUMMARY OF QUANTITIES** TYPICAL SECTIONS

TRAFFIC CONTROL DETAILS

STRUCTURE DETAILS

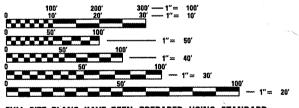
**STANDARDS** 

TYPICAL PAVEMENT MARKING DETAILS

AREAS OF REINFORCEMENT BARS

PROJECT LOCATION

SN 053-0128 SB & SN 053-0129 NB CARRYING FAI 55 (I-55) **OVER THE VERMILION RIVER** 1.5 MI. NORTH OF IL ROUTE 116

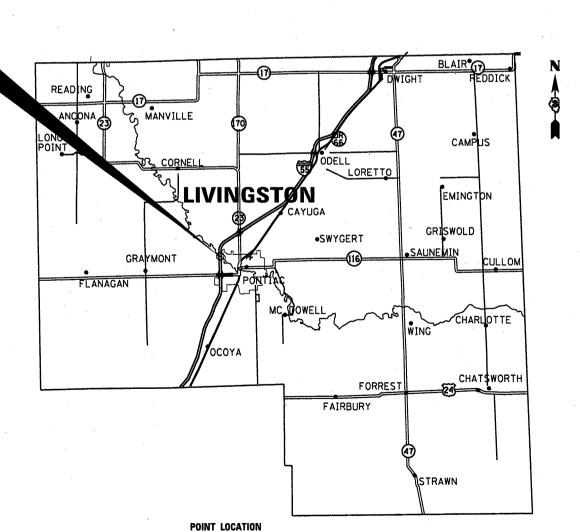


ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**DISTRICT 3 NO. (815) 434-6131** PROJECT ENGINEER: JOE KANNEL P.E. **UNIT CHIEF: RON WOODSHANK TOWNSHIP: PONTIAC** 

**CONTRACT NO. 66B48** 



LIVINGSTON 16 1 (53-5B-1)1-2 ILLINOIS CONTRACT NO. 66B48 D-93-002-12



INTERSTATE - RURAL FAI RTE. 55 (I-55) 2009 ADT 18800 P.V. 73.67% S.U. 6.12% 20.21% M<sub>a</sub>U<sub>a</sub>

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 12/28 20 11 EREC S. Therkeldeening
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER William R. Fue BL

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#### **GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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

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 THE RELATED CONSTRUCTION ITEMS.

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.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INLCUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

AS DIRECTED BY THE ENGINEER, EXISTING CONSTRUCTION ACCESSORIES WELDED TO THE TOP FLANGE OF BEAMS AND GIRDERS SHALL BE REMOVED. THE WELD AREAS SHALL BE GROUND FLUSH AND INSPECTED FOR CRACKS USING MAGNETIC PARTICLE TESTING (MT) OR DYE PENETRANT TESTING (PT) BY QUALIFIED PERSONNEL APPROVED BY THE ENGINEER.

ANY CRACKS THAT CANNOT BE REMOVED BY GRINDING 1/4 INCH DEEP SHALL BE IDENTIFIED AND REPORTED TO THE BUREAU OF BRIDGES AND STRUCTURES FOR FURTHER DISPOSITION. THE COST OF REMOVING WELDED ACCESSORIES, GRINDING AND INSPECTING WELD AREAS AND GRINDING CRACKS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

IF THE CONTRACTOR ELECTS TO USE CANTILEVER FORMING BRACKETS ON THE EXTERIOR BEAMS OR GIRDERS, THE BRACKETS SHALL BE PLACED AT THE SAME LOCATIONS AS REQUIRED FOR THE HARDWOOD BLOCKS IN ARTICLE 503.06(B) OF THE STANDARD SPECIFICATIONS. IF ADDITIONAL CANTILEVER FORMING BRACKETS ARE REQUIRED, HARDWOOD BLOCKING SHALL BE WEDGED BETWEEN THE EXTERIOR AND FIRST INTERIOR BEAM AT EACH OF THESE ADDITIONAL BRACKET LOCATIONS.

COST OF REMOVAL AND RE-INSTALLATION OF ALL MEMBERS NECESSARY TO COMPLETE THE WORK AS DETAILED ON THE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS SHALL BE INCLUDED WITH THE PAY ITEM REQUIREING THIS WORK.

JOINT PLATES AND ATTACHEAD BARS SHALL BE SHOP PAINTED WITH THE

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

INORGANIC ZINC RICH PRIMER. NO FIELD PAINT REQUIRED.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.

COMMITMENTS

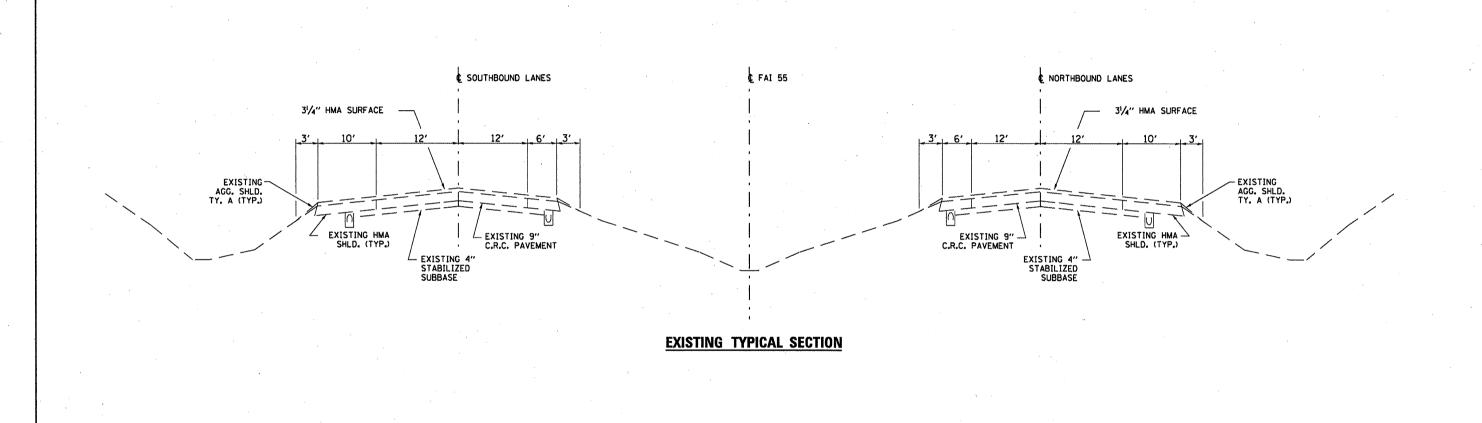
DATE:	12-21-11
PREPARED BY:	DISTRICT STUDIES & PLANS ENGINEER
EXAMINED BY:	Heil One 1800
	DISTRICT CONSTRUCTION ENGINEER
•	DISTRICT MATERIALS ENGINEER

Bree G. Locker
DISTRICT OPERATIONS ENGINEER

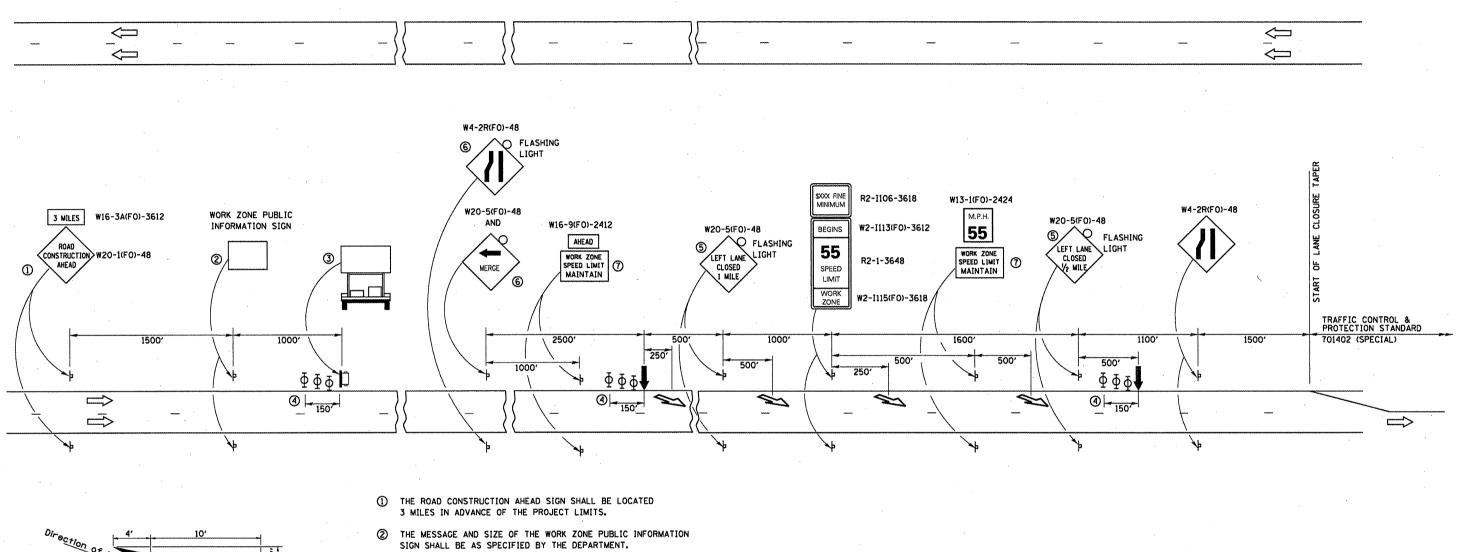
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -		REVISED -	DEPARTMENT OF TRANSPORTATION			***************************************	CONTRACT NO. 66B48
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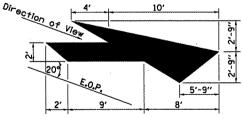
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				STATE FUNDS
			·	100% STATE STRUCTURE
CODE			TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	RURAL
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	142	142
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	150	150
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	1780	1780
50102400	CONCRETE REMOVAL	CU YD	23.6	23.6
50300225	CONCRETE STRUCTURES	CU YD	9.6	9.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14	14
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3320	3320
50800515	BAR SPLICERS	EACH	48	48
52000110	PREFORMED JOINT STRIP SEAL	FOOT	172	172
58700300	CONCRETE SEALER	SQ FT	35138	35138
	MOBILIZATION	L SUM	1	1
				7
	TEMPORARY CONCRETE BARRIER	FOOT	1300	1300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1300	1300
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	43	43
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1346	1346
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	43	43
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	280	280
X0326907	PORTABLE, VEHICLE MOUNTED CHANGEABLE MESSAGE SIGN	CAL MO	2	2
X6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	100	100
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2
X7800610	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3430	3430
X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	430	430
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2	2
	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2	2
20012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	120	120
· SPECIAL	TY ITEMS			

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	PLOT DATE = 12/22/2011	DATE	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET NO. 1 OF 1 SHEETS	CONTRACT NO. 66B48   ILLINOIS  FED. AID PROJECT



DESIGNED - RON WOODSHANK REVISED DRAWN - RON WOODSHANK REVISED -FILE NAME = USER NAME = patelyj SECTION TYPICAL SECTION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION (53-5B-1)1-2 PLOT SCALE = 100.0000 '/ in. CHECKED -REVISED ~ \_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ PLOT DATE = 12/22/2011 DATE REVISED -\_\_\_ TO STA. .





LANE DROP ARROW LEFT LANE DROP ARROW SHOWN USE MIRROR IMAGE FOR RIGHT LANE.

- 3 TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE CLOSED" / " × MILES AHEAD"
  "LEFT LANE CLOSED" / " × MILES AHEAD" "ALL LANES OPEN"
- 4 THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES
- (5) THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- 6 WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- 7 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.

MAINTAIN 8" 36" WORK ZONE 6" SPEED LIMIT 6"

#### **SYMBOLS**

ARROW BOARD

PORTABLE CHANGEABLE MESSAGE SIGN

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

LANE DROP ARROW - SEE STANDARD 780001

#### GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

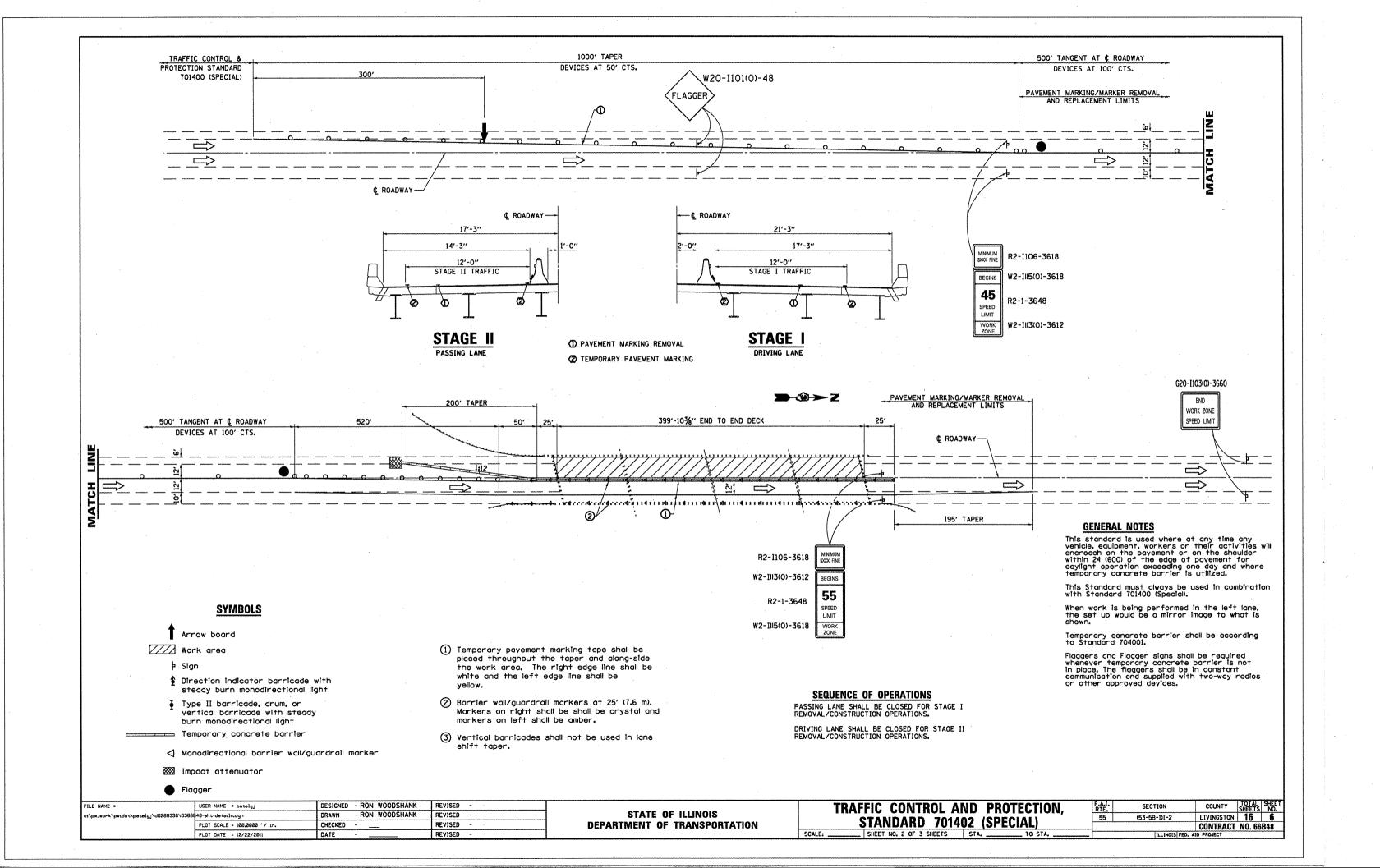
SEE SPECIAL PROVISIONS.

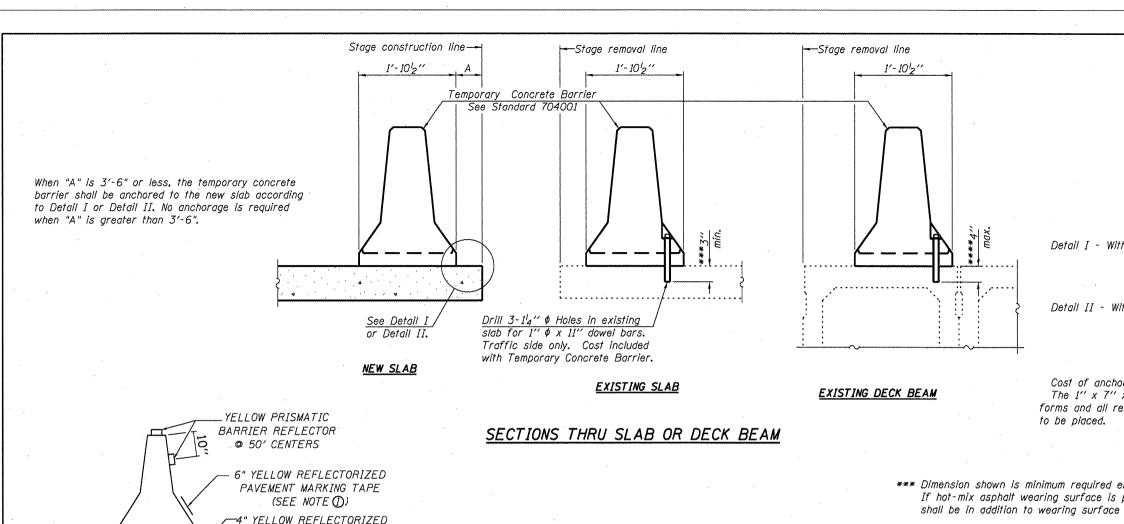
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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ı	CTANDADD 70440	O (CDECIAL)
I	STANDARD 70140	JU (SPECIAL)
I	SCALE: SHEET NO. 1 OF 3 SHEETS	STATO STA

	ILLINOIS FED. A	ID PROJECT		
		CONTRACT	NO. 66	B48
55	(53-5B-1)1-2	LIVINGSTON	16	5
A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.





## NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7' 'x "W" steel P 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 P 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.

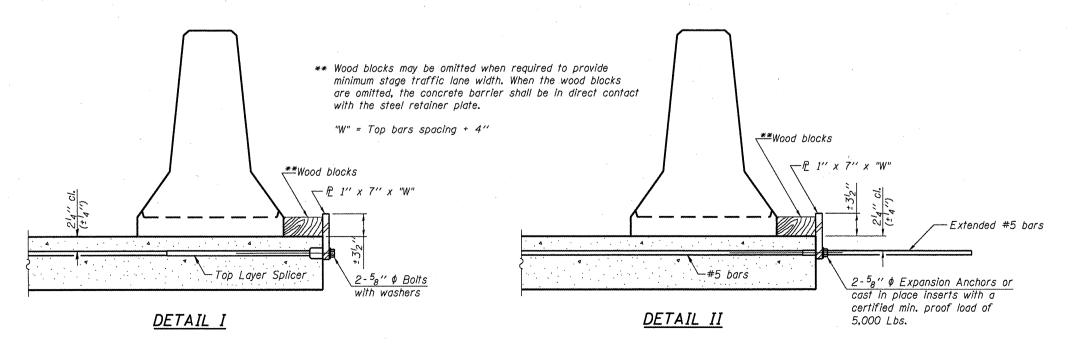
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready

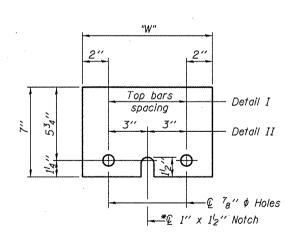
- \*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- \*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface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

#### TEMPORARY CONCRETE BARRIER WALL DETAILS

PAVEMENT MARKING TAPE

(SEE NOTE (1))

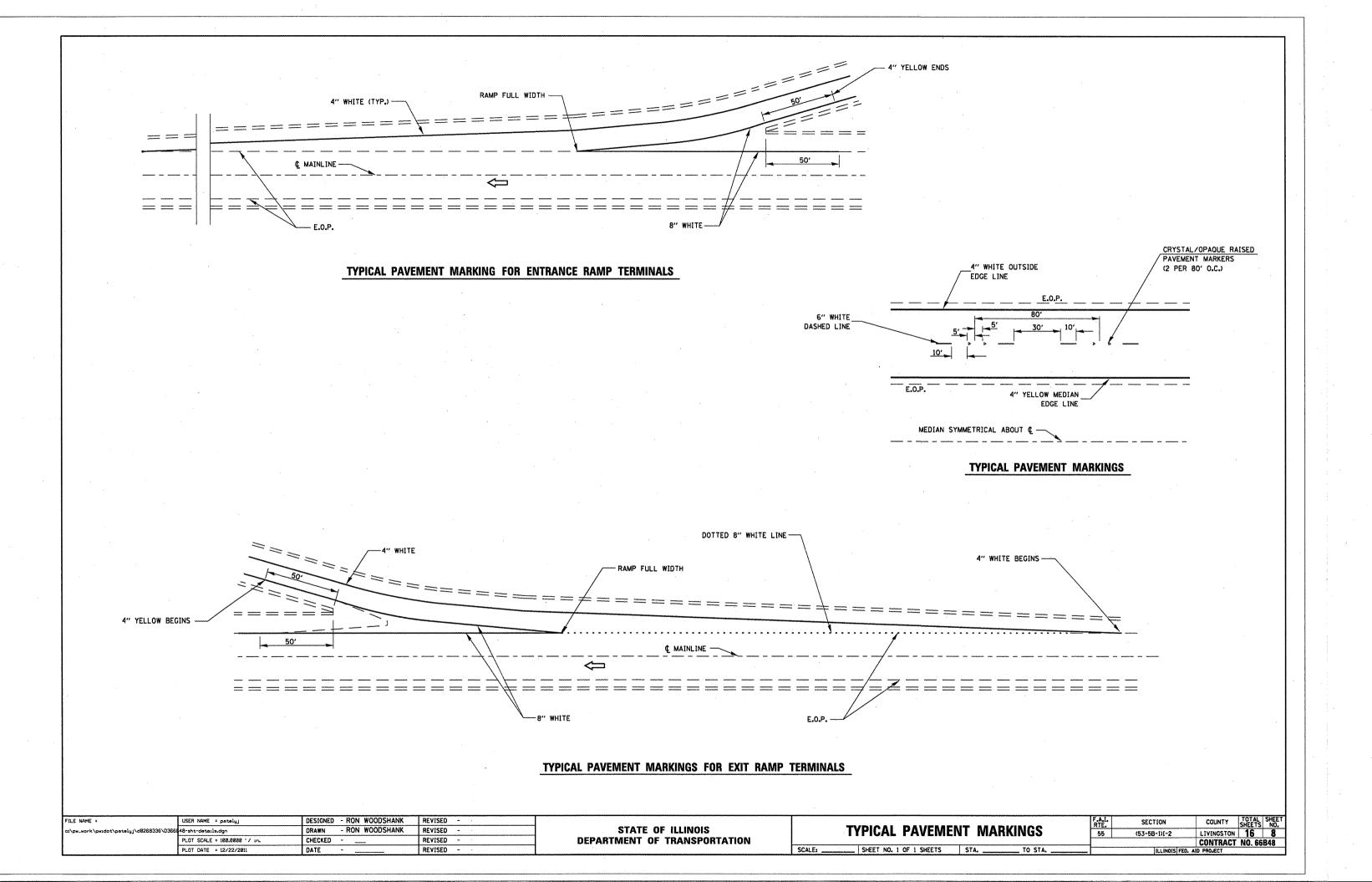


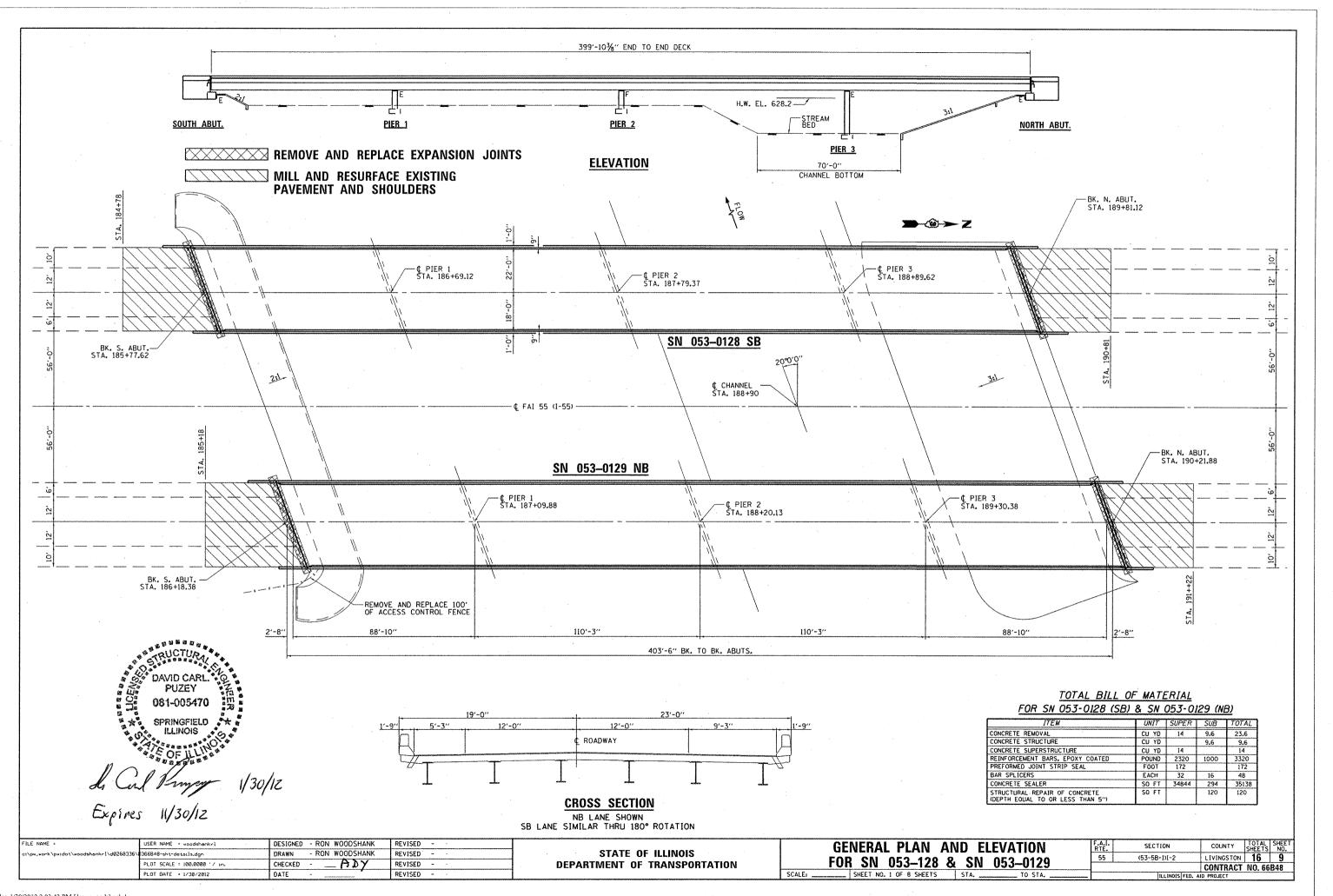


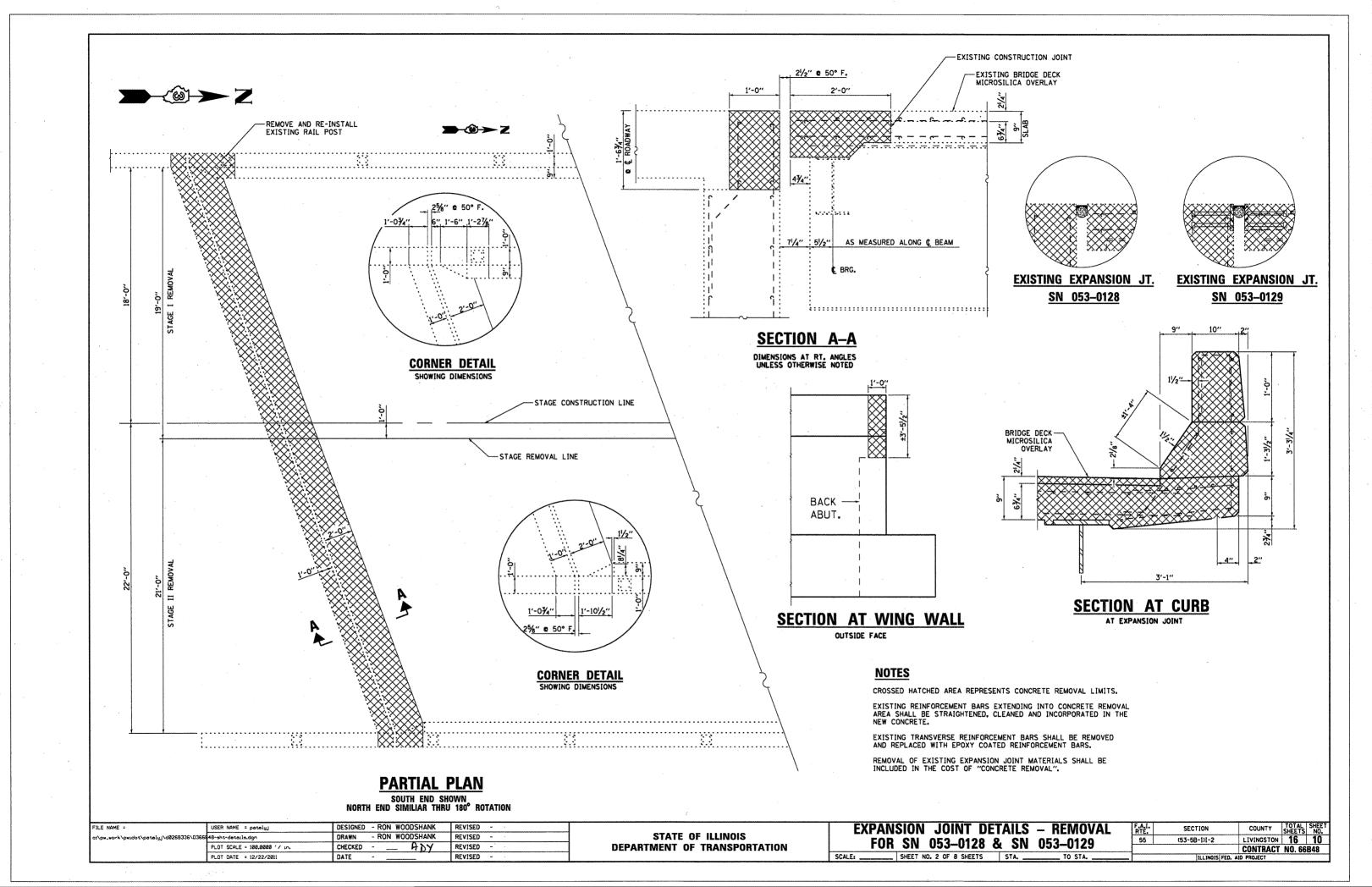
## STEEL RETAINER P 1" x 7" x "W"

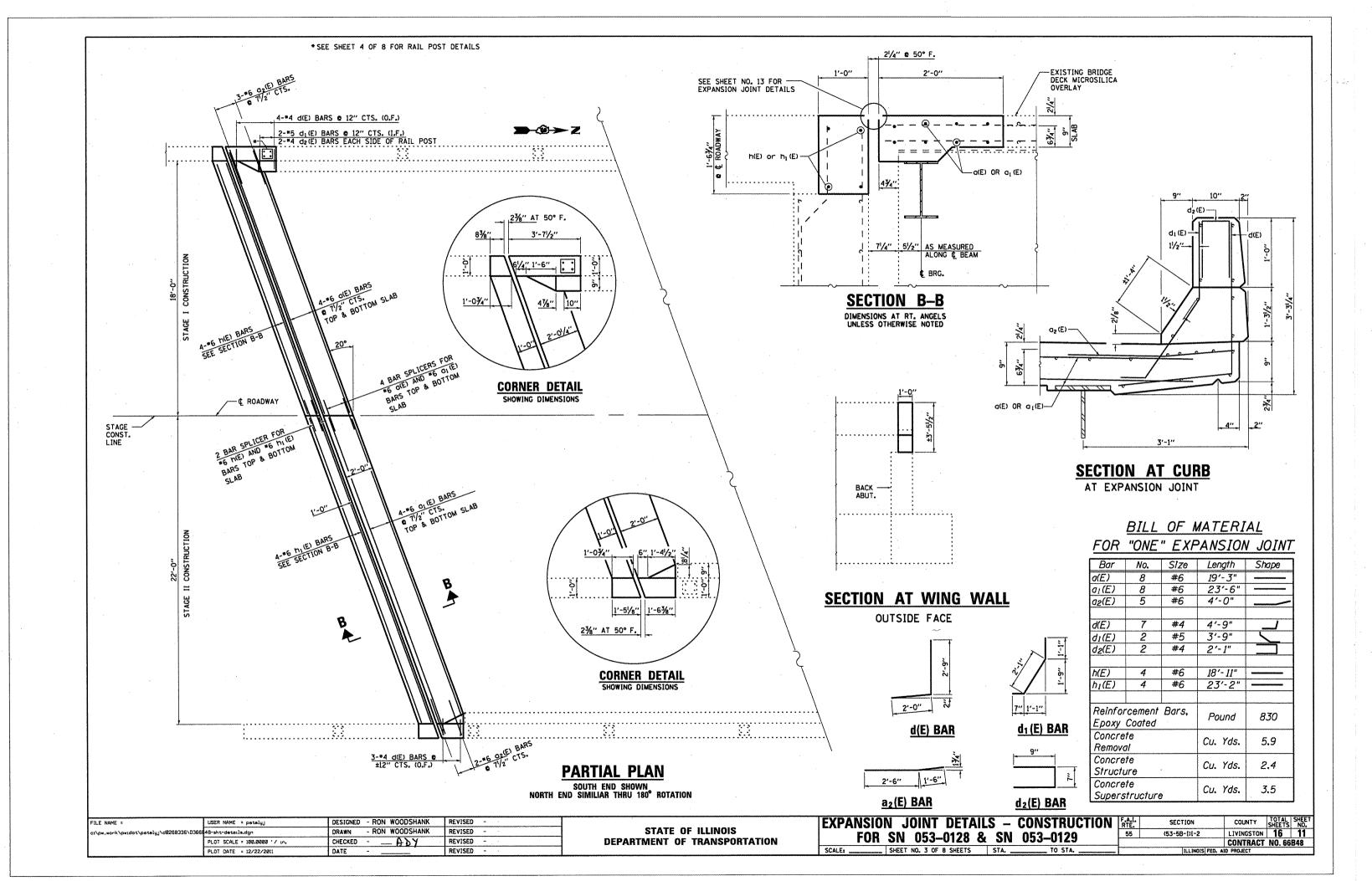
\* Required only with Defail II

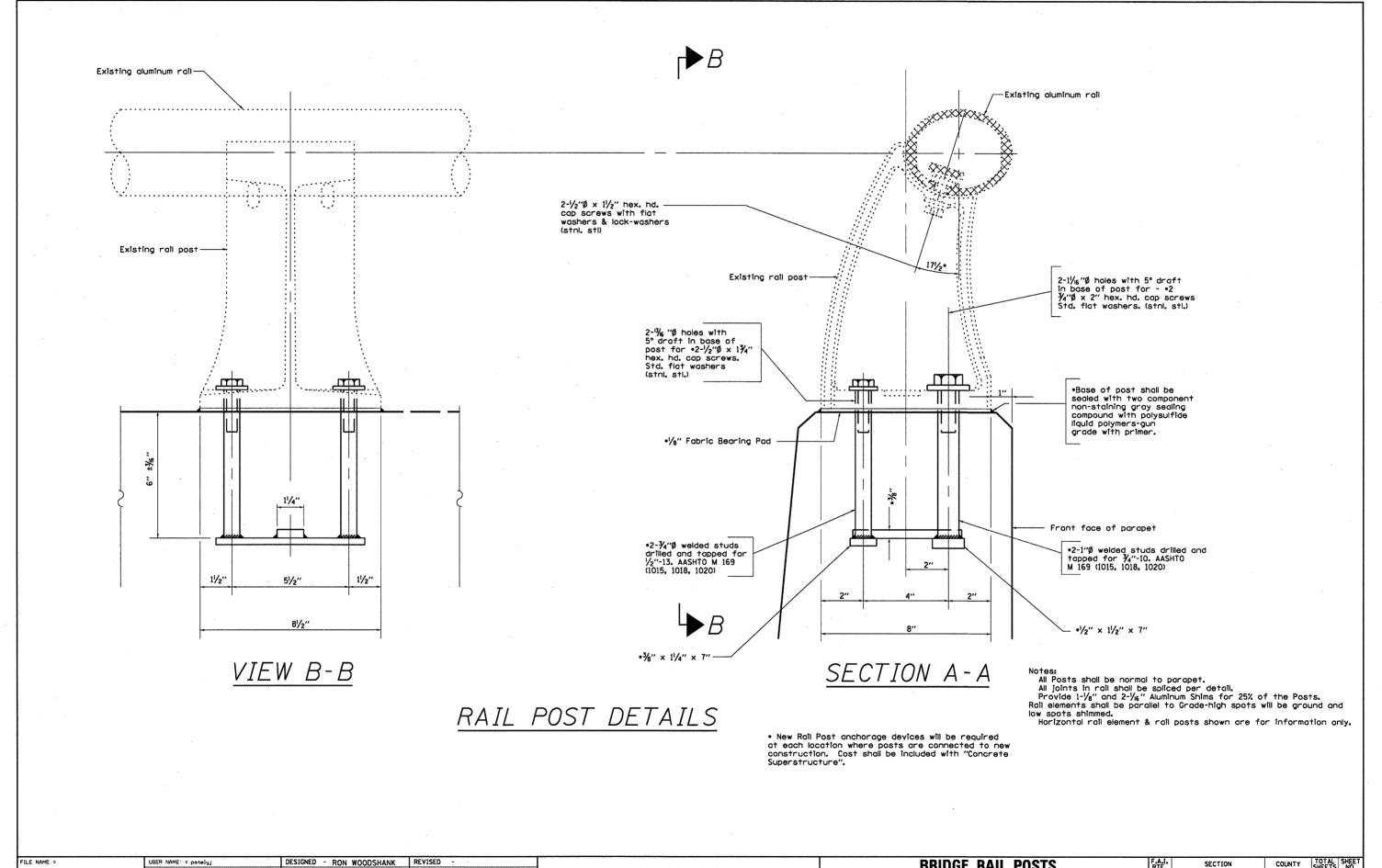
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į.	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION	CONTRACT NO. 66B48
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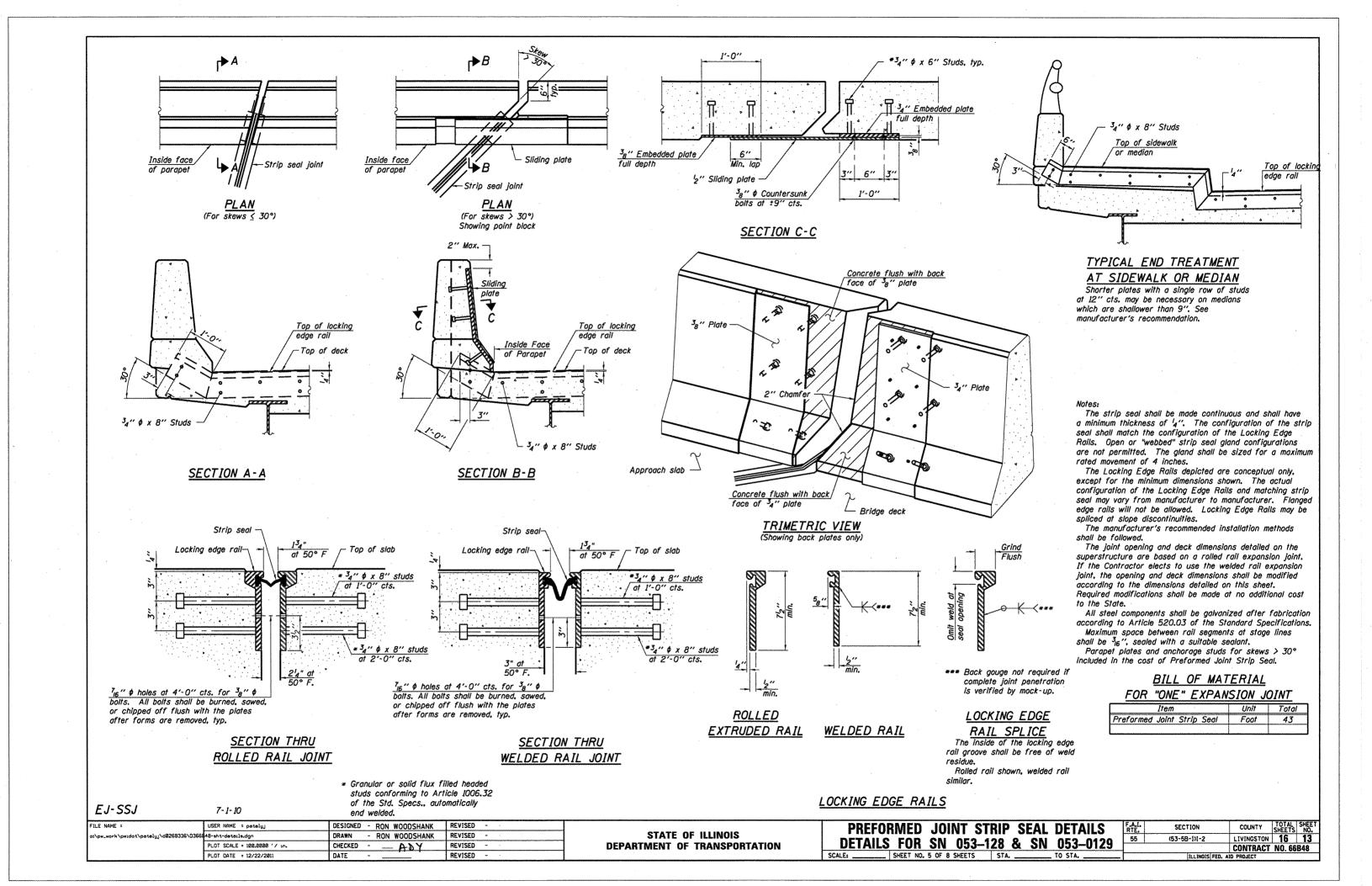


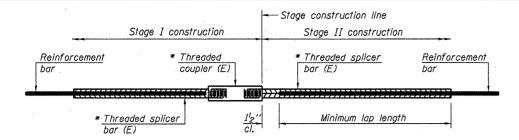




COUNTY SHEETS NO.

LIVINGSTON 16 12 **BRIDGE RAIL POSTS** SECTION STATE OF ILLINOIS - RON WOODSHANK REVISED -DRAWN 48-sht-deteils.don (53-5B-1)I-2 FOR SN 053-128 & SN 053-0129
\_\_\_\_ SHEET NO. 4 OF 8 SHEETS STA. \_\_\_\_\_ TO STA. \_ **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 100.0000 '/ in. CHECKED ~ REVISED -CONTRACT NO. 66B48
ILLINOIS FED. AID PROJECT PLOT DATE = 12/22/2011 DATE REVISED -SCALE: \_\_





#### 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

**Threaded** 

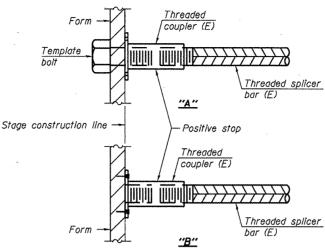
couplers (E)

Threaded splicer bar length = min. lap length +  $l_2^{\prime\prime}$  + thread length

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

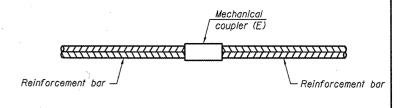
#### BILL OF MATERIAL FOR "ONE" EXPANSION JOINT

Location	Bar size	No. assemblies required	Table for minimum lap length
DECK	*6	8	TABLE 3
HATCH BLOCK	#6	4	TABLE 3



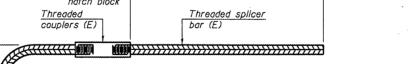
#### INSTALLATION AND SETTING METHODS

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



#### STANDARD MECHANICAL SPLICER

Bar size	No. assemblies required



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

Approach Slab

6'-0"

Threaded splicer bar (E)

No. required =

## 6'-0" **Abutment** Approach slab hatch block BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS No. required = Threaded splicer bar (E)

**NOTES** 

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

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

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

BSD-1

7-1-10

Threaded splicer

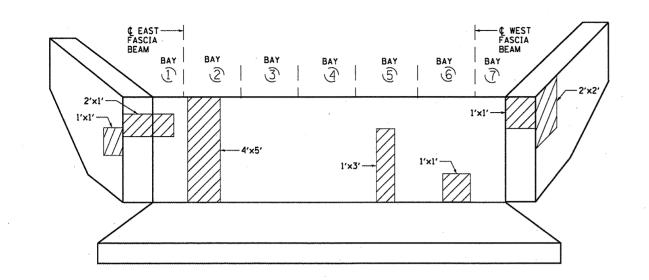
bar (E)

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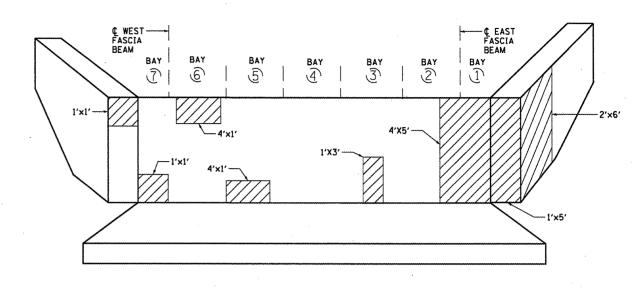
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**BAR SPLICER & MECHANICAL SPLICER** DETAILS FOR SN 053-128 & SN 053-0129 SHEET NO. 6 OF 8 SHEETS STA. \_\_

SECTION 55 (53-5B-1)I-2

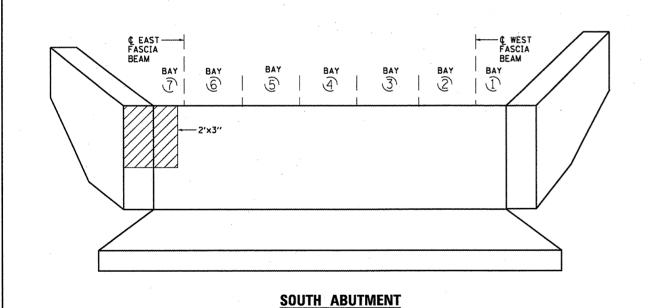


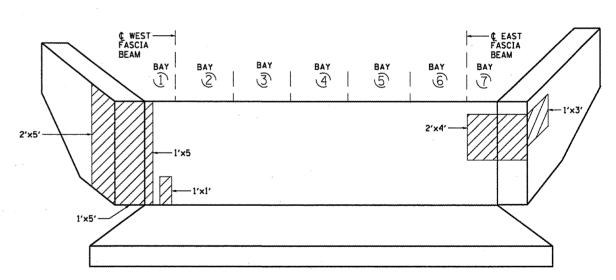
**SOUTH ABUTMENT** 



#### NORTH ABUTMENT

## S.N. 053-0128 (SB)





## NORTH ABUTMENT

#### BILL OF MATERIAL SN 053-0128

Item	Unit	Total
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	82

#### BILL OF MATERIAL SN 053-0129

Item Unit

STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 053-0129 (NB)

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	SHEET	NO.	7 OF	8	SHEETS	STA		TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.				
55	(53-5B-1)I-2	LIVINGSTON	16	15				
CONTRACT NO. 66B48								
ILLINOIS FED. AID PROJECT								

