04-27-12 LETTING ITEM 168

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DECIMAL OF AN INCH AND OF A FOOT 001006

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED

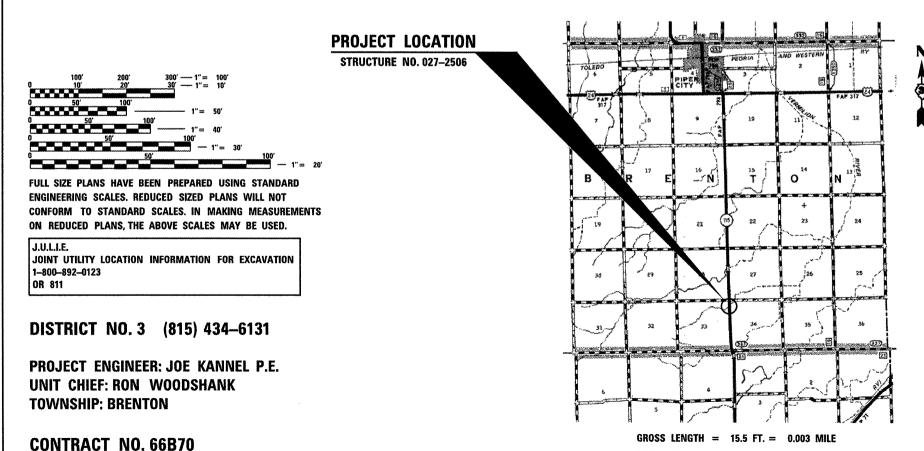
HIGHWAY PLANS

FAP ROUTE 798 (IL 115) SECTION (107)I

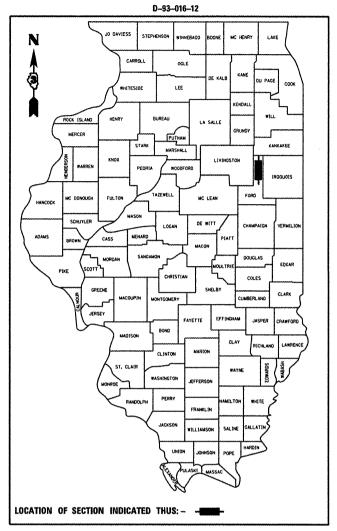
STRUCTURE SUPPORT MEASURES **STRUCTURE NO. 027–2506 CARRYING FAP ROUTE 798 (IL 115) OVER UNNAMED STREAM** 4.1 MILES SOUTH OF US ROUTE 24 **FORD COUNTY**

C-93-019-12

NET LENGTH = 15.5 FT. = 0.003 MILE



FORD 10 1 ILLINOIS CONTRACT NO. 66B70



RURAL MINOR ARTERIAL FAP 798 (IL 115) 2011 87.27% P.V. S.U. 3.64%

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 2-16 20/2 Exic S: Therbaldsen on DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 23 2012 Ohn D. BORONZELL: P.E. A. ENGINEER OF DESIGN AND ENVIRONMENT William R. Frey la director of Highways, Glief end

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT 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 CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SO YD / IN

BITUMINOUS MAT	ERIALS (PRIME COAT) RATE	ES
SURFACE TYPE	ESTIMATED TRUCK	RESIDUAL RATE
	APPLICATION RATE	
MILLED HMA OR PCC PAVEMENT	0.08 GAL / SO YD	0.04 GAL / SQ YD
EXISTING PAVEMENT	0.05 GAL / SQ YD	0.025 GAL / SQ YD
FOG COAT		
(BETWEEN ADDITIONAL HMA LIFTS)	0.05 GAL / SQ YD	0.025 GAL / SQ YD

ESTIMATED TRUCK APPLICATION RATE USED FOR CALCULATING PLAN QUANTITIES

		MIX [DESIGN		**************************************
MIX	PG GRADE	DESIGN	MIX	FRICTION	DENSITY
		AIR VOIDS	COMPOSITION	AGG	CONTROL
HMA SURFACE	PG64-22	4.0% @ N50	IL 9.5	MIXTURE C	SATISFACTION OF ENGINEER

COMMITMENTS

DATE: 2-16-12
PREPARED BY: DISTRICT STUDIES & PLANS ENGINEER
EXAMINED BY: Half Dux p
DISTRICT CONSTRUCTION ENGINEER
DISTRICT MATERIALS ENGINEER
OFSTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

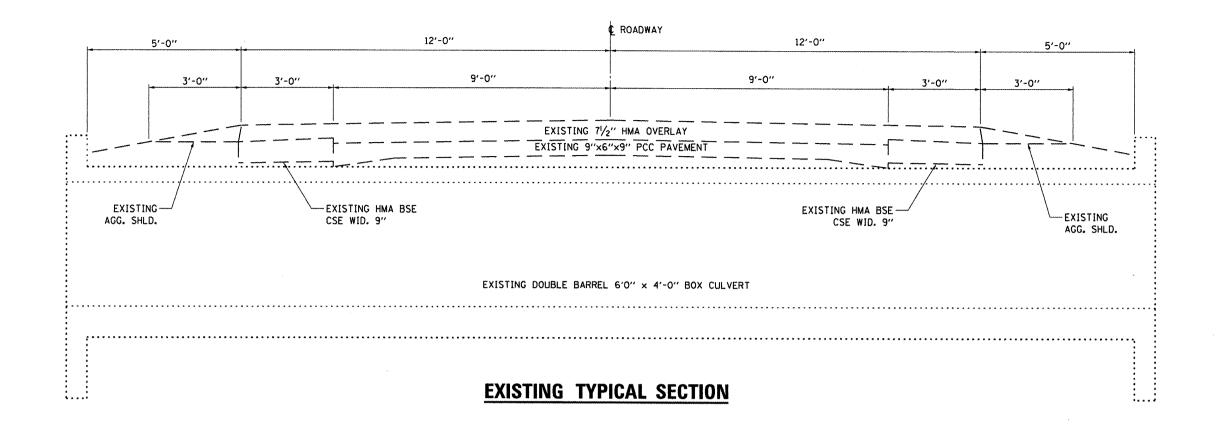
GENERAL NOTES

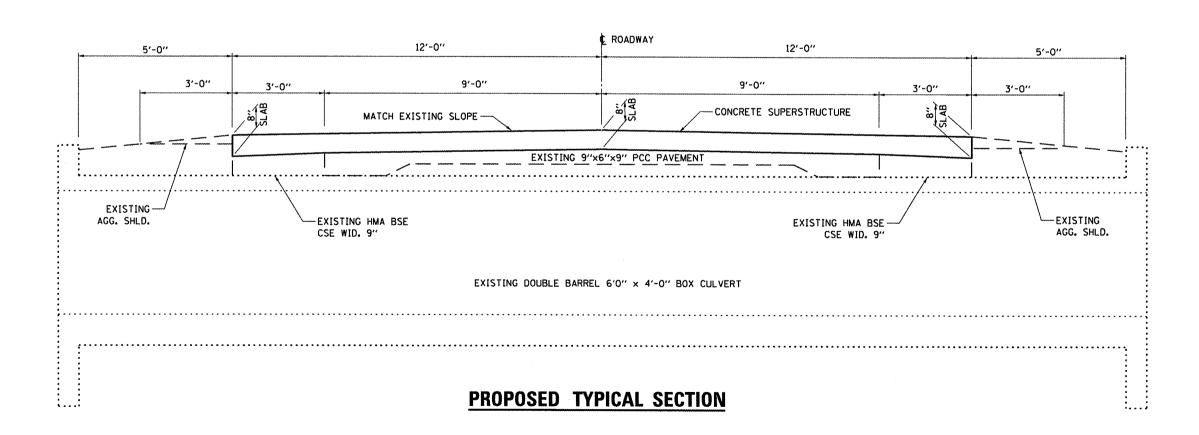
TO STA.

SHEET NO. 1 OF 1 SHEETS STA.

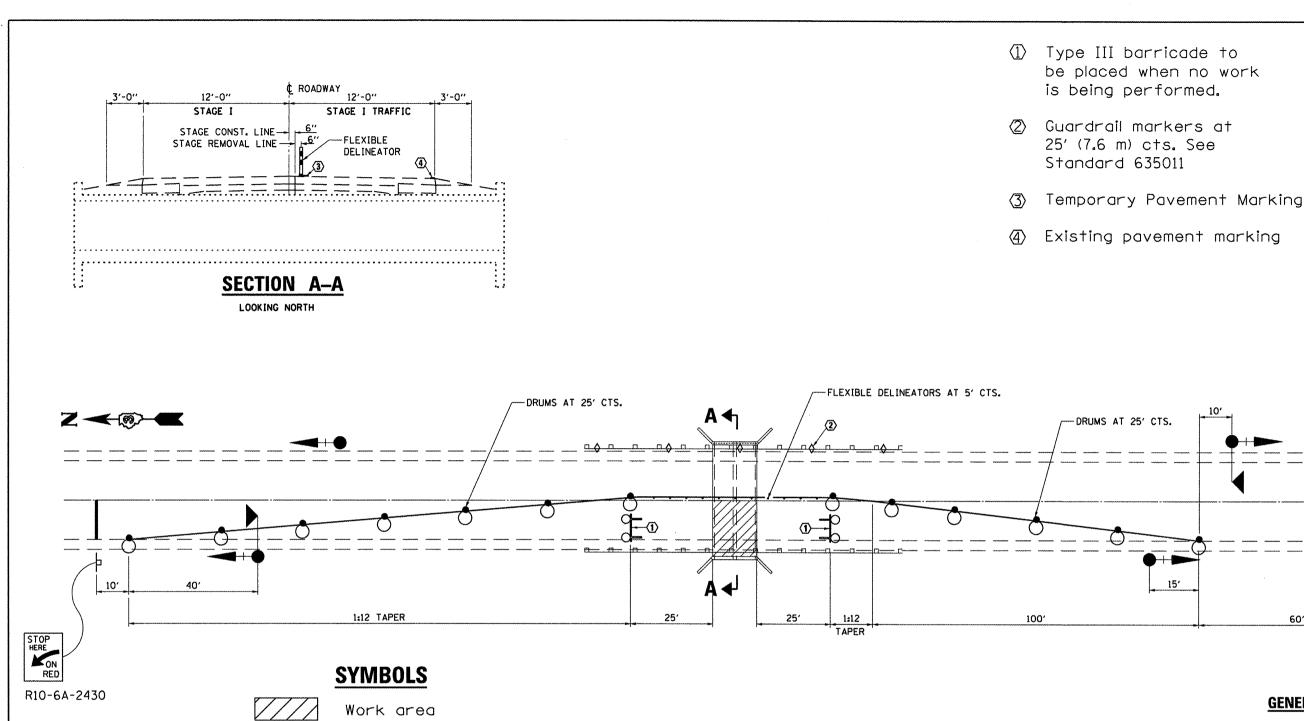
				STATE FUNDS
-				100% STATE
				STRUCTURE
CODE			TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	RURAL
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	9	9
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	9	9
44000182	HOT-MIX ASPHALT SURFACE REMOVAL, 8"	SQ YD	41.3	41.3
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3	3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.2	9.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2100	2100
50800515	BAR SPLICERS	EACH	30	30
67100100	MOBILIZATION	L SUM	1	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70103815	TRAFFIC CONTROLSURVEILLANCE	CAL DA	20	20
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	111	111
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	20	20
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	107	107
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
*SPECIALITY	ITEMS			

CONSTRUCTION CODE





FILE NAME =	USER NAME = patelyJ	DESIGNED - RON WOODSHANK	REVISED -			TYPICAL ROADWAY SECTION	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET
c:\pw.work\pwidot\patelyj\d0278071\D3668	70-sht-details.dgn	DRAWN - RON WOODSHANK	REVISED -	STATE OF ILLINOIS			798	(107)1	FORD 10 4
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		AT STATION 215 + 47	/30	(107)1	CONTRACT NO. 66B70
	PLOT DATE = 2/16/2012	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	1	ILL INDIS FED.	AID PROJECT
					· · · · · · · · · · · · · · · · · · ·	······································		1,000,000,000	,



GENERAL NOTES

This Detail is used where, 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.

See traffic Control and Protection, Standard 701316 for advanced signing details.

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 Standard 701201.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

← Traffic signal with backplate

Type III barricade

Microwave detector

- Drum with steady burning bi-directional light
- Crystal, bidirectional guardrail marker

Sign

FILE NAME =	USER NAME = patelyj	DESIGNED - RON WOODSHANK	REVISED -	
c:\pw_work\pwidot\patelyj\d027807!\D3666	70-sht-details.dgn	DRAWN - RON WOODSHANK	REVISED -	1
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	1
	PLOT DATE = 2/16/2012	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
FOR STAGE I CONSTRUCTION
| SHEET NO. 1 OF 2 SHEETS | STA. TO ST

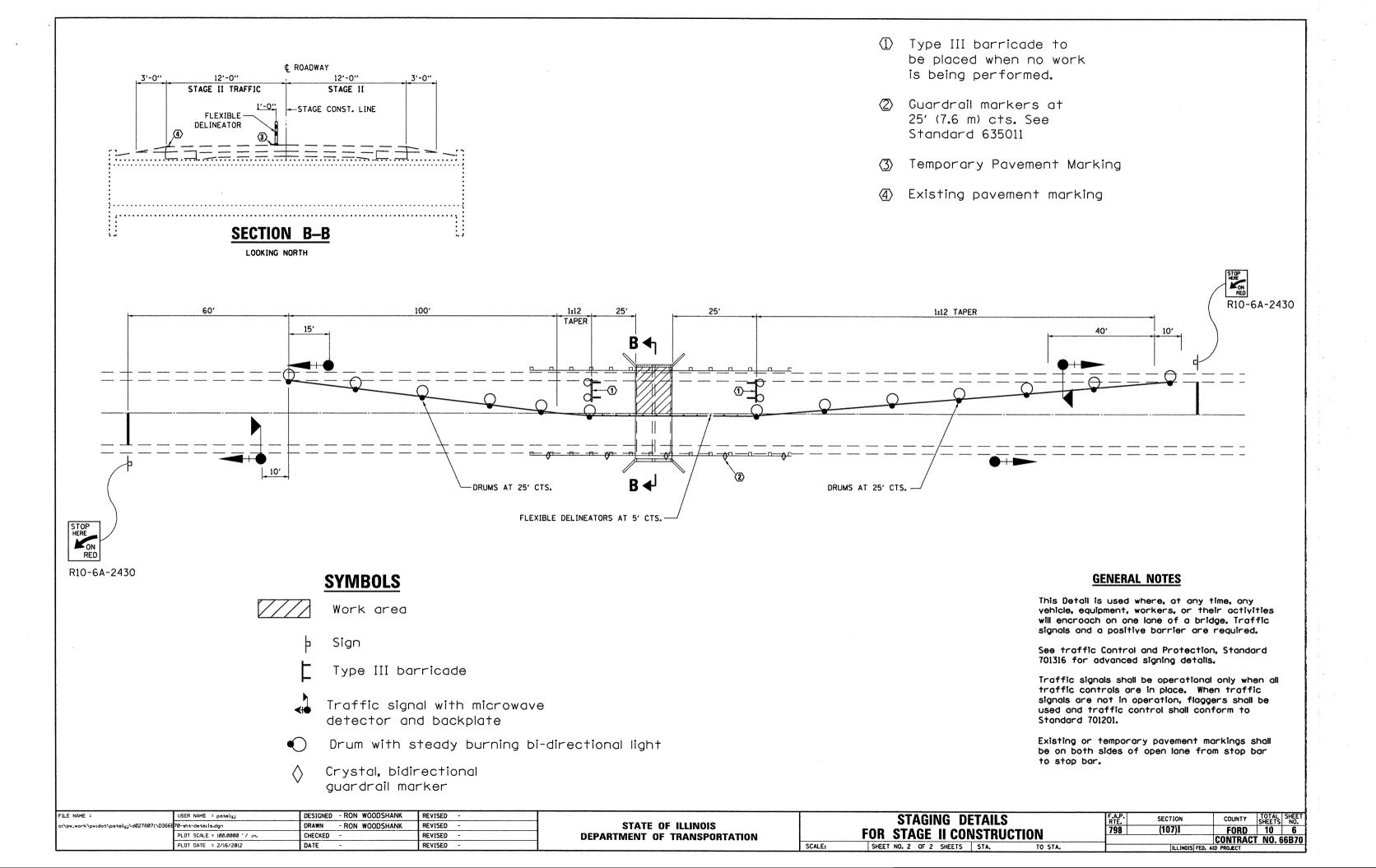
P SECTION COUNTY TOTAL SHEET'S NO. 5

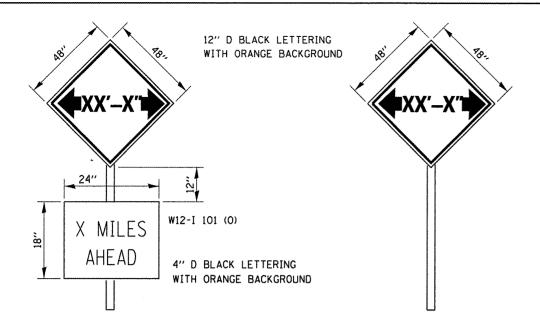
(107)1 FORD 10 5

CONTRACT NO. 66B70

| ILLINOIS| FED. AID PROJECT

STOP HERE ON RED R10-6A-2430





TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

FILE NAME =

USER NAME = patelyj

PLOT DATE = 2/16/2012

PLOT SCALE = 100.0000 '/ in.

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.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS

	W	IDTH RESTRIC	TION SIGNING TABLE	
NO. OF SIGNS	TYPE OF Sign	SIGN DESIGNATION	LOCATION	WIDTH RESTRICTION & DISTANCE
1	WIDTH RESTRICTION WI2-I-101-(0) MG-1	(A)	ON IL RTE, 115 NE CORNER INTERSECTION WITH IL RTE, 54	9'-6" 4.5 MILES
1	WIDTH RESTRICTION	B	WITHIN TRAFFIC CONTROL AND PROTECTION STANDARD 701316	9'-6"
1	WIDTH RESTRICTION	©	WITHIN TRAFFIC CONTROL AND PROTECTION STANDARD 701316	9′-6"
1	WIDTH RESTRICTION W12-I-101-(0) M6-1	(D)	ON IL RTE. 115 SW CORNER INTERSECTION WITH US RTE. 24	9'-6" 4.1 MILE

DESIGNED - RON WOODSHANK

DRAWN - RON WOODSHANK

CHECKED -

DATE

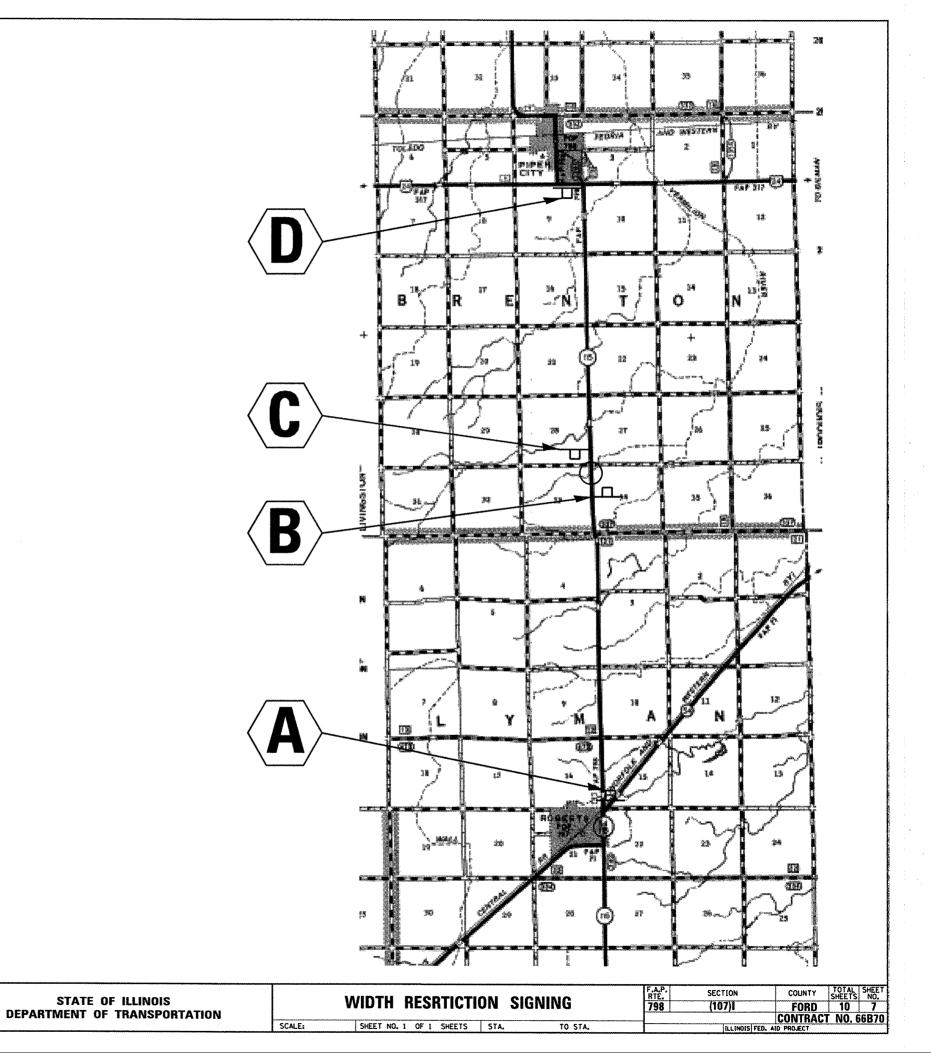
REVISED

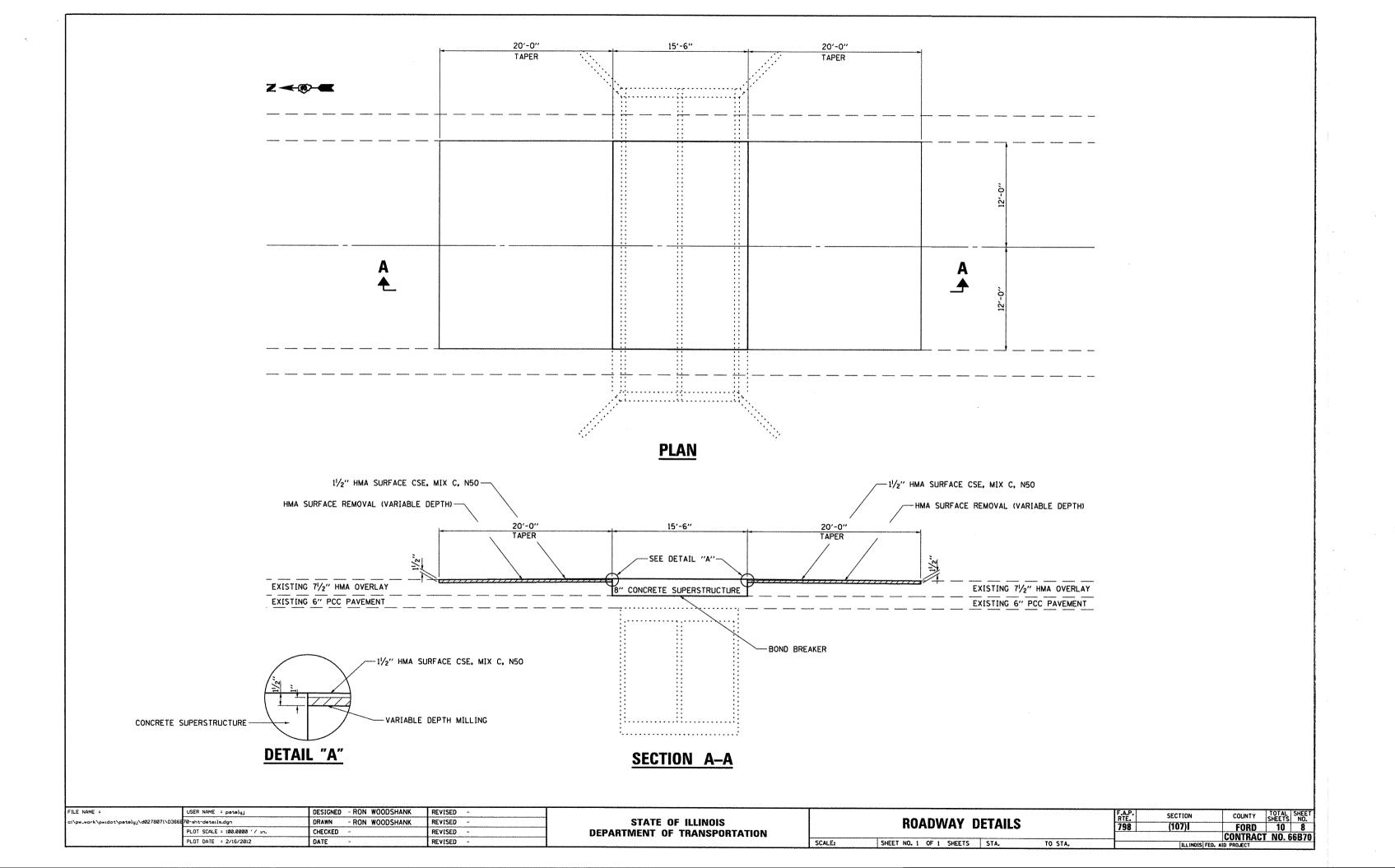
REVISED -

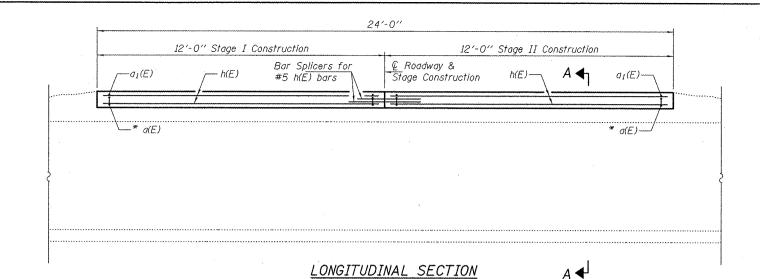
REVISED

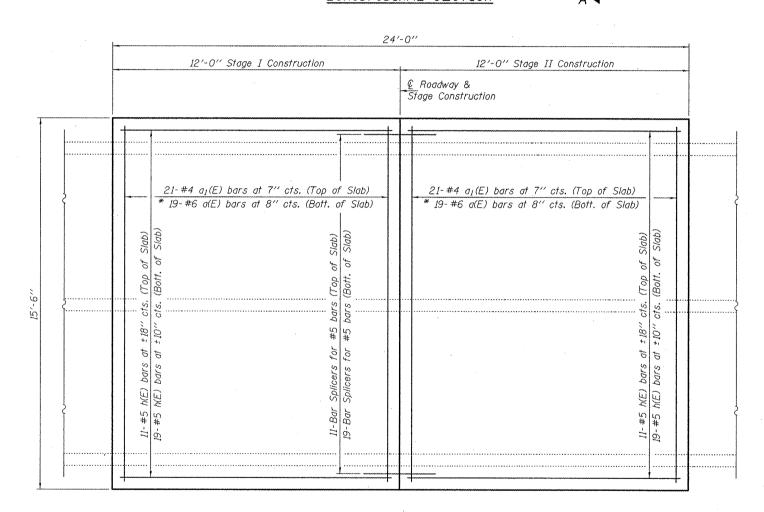
REVISED -

STATE OF ILLINOIS



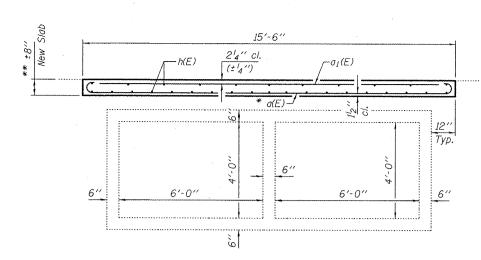






DAVID CARL PUZEY 081-005470 SPRINGFIELD ILLINOIS

PLAN



SECTION A-A

- * Tilt hook of a(E) bars if necessary to maintain clearance.
- ** Remove 8" of existing overlay and replace with 8" concrete slab as shown. Removal is to be limited to the 8" shown. Slope to match roadway. Cost of removal included with Hot-Mix Asphalt Surface Removal.

GENERAL NOTES

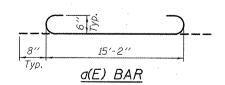
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Reinforcement bars designated (E) shall be epoxy coated.

The slab surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

DESIGN STRESSES

f'c = 3,500 psi

fy = 60,000 psi (Reinf.)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	38	#6	16'-6"	ــــــــــــــــــــــــــــــــــــــ
01(E)	42	#4	15'-2''	
h(E)	60	#5	11'-8''	
Bar Sp	licers		Each	30
	c Aspha e Remov		Sq. Yd.	41.3
Reinfor Epoxy		Bars,	Pound	2100
Concret Supersi	-		Cu. Yd.	9.2

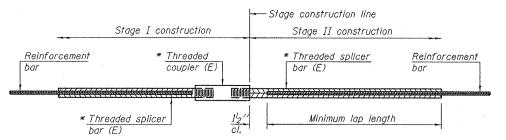
Expires: November 30, 2012

DESIGNED - CHECKED EXAMINED PASSED

MARCH 16, 2012 DATE -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** GENERAL PLAN & REPAIR DETAILS ILLINOIS ROUTE 115 OVER STREAM SN 027-2506 SHEET NO. 1 OF 2 SHEETS

1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	798	(107)I	FORD	10	9		
-			CONTRACT	NO. 6	6B70		
İ	ILLINOIS FED. AID PROJECT						



STANDARD BAR SPLICER ASSEMBLY

	Minim	um Lap Leng	ths	**************************	
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

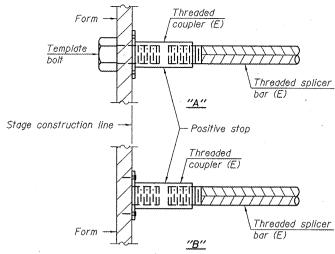
Table 5: Epoxy bar, Top bar lap, Class B

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

* Epoxy not required on Bar Splicer Assembly components used in

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

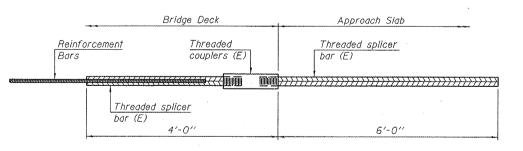
Location	Bar size	No. assemblies required	Table for minimum lap length
Slab	#5	30	3



INSTALLATION AND SETTING METHODS

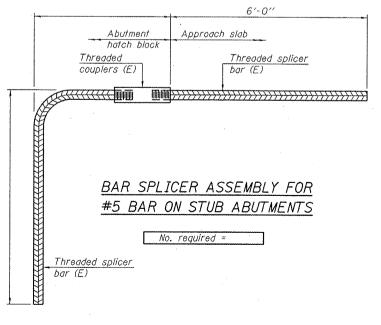
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

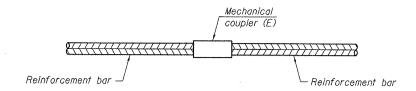
(E): Indicates epoxy coating.



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 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

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

BSD-1

7-1-10

		•			, ·						
DESIGNED	-	DAB		EXAMINED	Jan. 1	- 1011	D	ATE	_	MARCH 16, 2012	Т
CHECKED	-	VHV			ACTING ENGINEER OF STI	RUCTURAL BEF	RVICES				٠
DRAWN	-	Kyle M. Ste	ffen	PASSED	Il Carl	Now word					1
CHECKED	-	DAB VH	ν		ACTING ENGINEER OF BRID	GES AND STRU	JCTURES				-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SN 027-2506

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
798	(107)]	FORD	10	10		
CONTRACT NO. 66B70						
ILLINOIS FED. AID PROJECT						