### STATE OF ILLINOIS

### **DEPARTMENT OF TRANSPORTATION**

**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE CITY OF WILMINGTON

PROPOSED HIGHWAY PLANS

FAP ROUTE 846: IL 53 (BALTIMORE ST.)

OVER FORKED CREEK

SECTION: 4 B-2-BR

CONCRETE OVERLAY,

BRIDGE AND BRIDGE APPROACH REPAIRS

WILL COUNTY

C-91-704-10

LOCATION OF IMPROVEMENT
SN 099-0091

R 9 E R 10 E

LORENZO
LOR

WILMINGTON TOWNSHIP

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

POSTED SPEED LIMIT - 35 mph

PROJECT ENGINEER: ROBERT BORO (847) 705-4178

PROJECT MANAGER: ISSAM RAYYAN

**CONTRACT NO. 60L50** 

 $\bigcirc$ 

TRAFFIC DATA

2009 ADT = 8100

NET & GROSS LENGTH OF IMPROVEMENT = 196.5 FT.

X26+2=28

D-91-704-10



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 18 20 11

Diane M. O'Merf 95 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 4 20 11

Scott E, Stitt, P.E. of acting Engineer of Design and Environment

march + 20 11

Christine M. Raed & DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

/10

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#### INDEX OF SHEETS

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26 .	ARTERIAL ROAD INFORMATION SIGN	

#### STATE STANDARDS

<u>S</u>	TANDARD NO.	DESCRIPTION
	635011 - <b>02</b>	REFLECTOR MARKER AND MOUNTING DETAILS
	701201- <b>04</b>	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH
	701301 <b>-04</b>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701321 <b>- 11</b>	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
	701901 <b>-01</b>	TRAFFIC CONTROL DEVICES
	704001- <i>0</i>	TEMPORARY CONCRETE BARRIER
	42.1001-02 42.0001-07	

#### GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE & GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF WILMINGTON.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARMENT

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHEDFOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIAL.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE ENGINEER SHALL CONTACT LAWRENCE HILL, AREA TRAFFIC FIELD TECHNICIAN AT (847) 846-2165 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

60 40

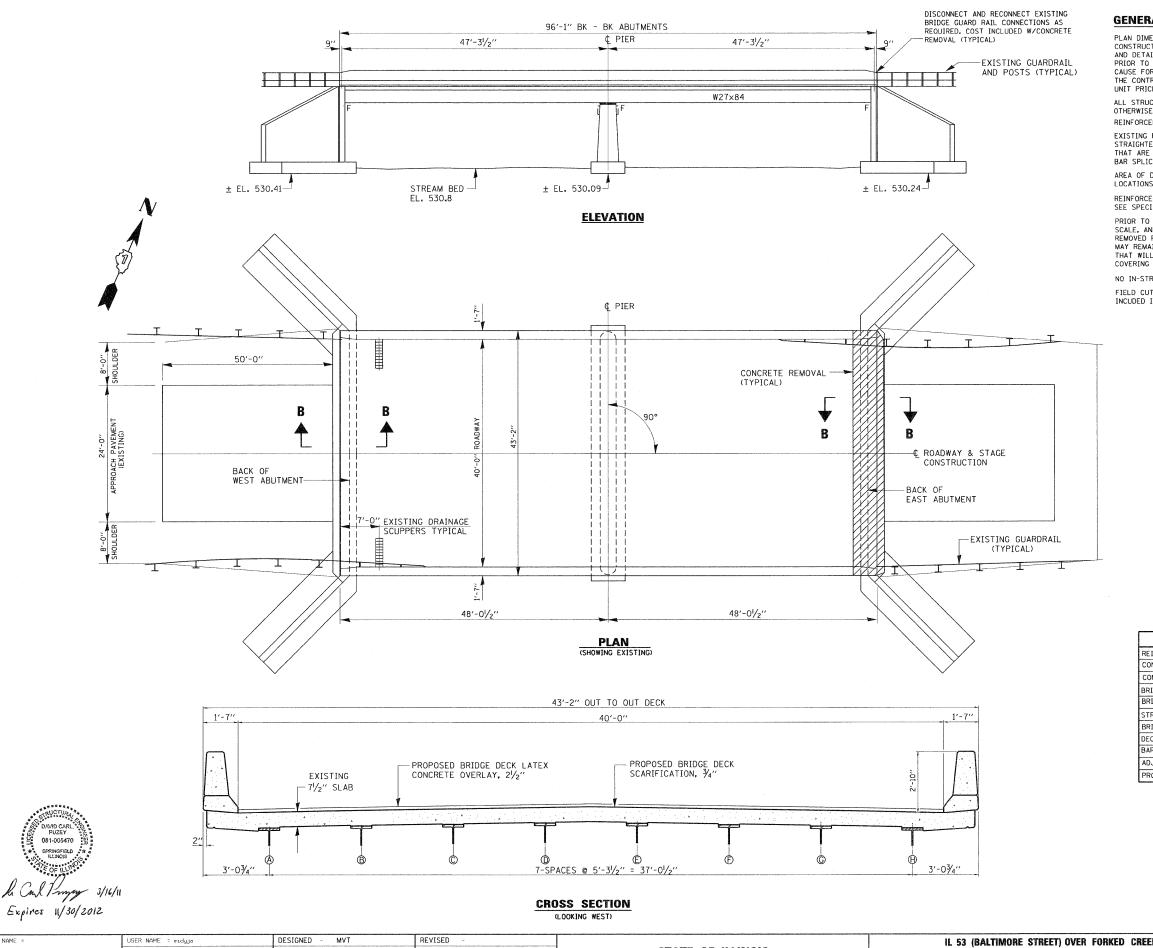
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS, GENERAL NOTES
SHEET NO. OF SHEETS STA. TO STA.

SCALE: NONE

Rev.

	SUMMARY OF QUANTITIES		URBAN 100'/.STATE		(	CONSTRUCT	ION TYPE	CODE: OC	114		SUMMARY OF QUANTITIES		URBAN 100% STATE			CONSTRUC	TION TYPE	CODE: 00	14
CODE NO	ITEM	UNIT	TOTAL QUANTITIES							CODE NO	ITEM	UNIT	TOTAL						
40500000	DATINATIONS ANTEDIALS (ADDING COAT)	TON	0.07	0014						Z0012754	STRUCTURAL REPAIR OF CONCRETE	SO FT	62	0014	-				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.03	0.03						20012134	(DEPTH EQUAL TO OR LESS THAN 5 INCHES)	30 11							
40603080	AGGREGATE (PRIME COAT)  HOT-MIX ASPHALT BINDER COURSE,	TON	24	24						Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1					
40803080	IL-19.0, N50	7011	27							Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	1	1					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	8	8							REDIRECTIVE), TEST LEVEL 2								
42001165	BRIDGE APPROACH PAVEMENT	SO YD	266	266		-				Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1					1
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	107	107						Z0030340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	1					
44004250	PAVED SHOULDER REMOVAL	SQ YD	178	178						20030322	IMPACT ATTENUATORS, RELOCATE (FULLY	EACH	1	1					
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SO YD	15	15							REDIRECTIVE, NARROW), TEST LEVEL 2								
50102400	CONCRETE REMOVAL	CU YD	9.8	9.8						Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	410	410				. **	
50300255 <b>50300300</b> 50300260	CONCRETE SUPERSTRUCTURE  PROTECTIVE COAT  BRIDGE DECK GROOVING	CU YD SQ YD	21.8 <b>467</b> 413	21.8 467 413						X0325114	ADJUSTING PRAINAGE SCUPPERS, TYPE A	EACH	2	2					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3680	3680															
50800515	BAR SPLICERS	EACH	112	112										S OR OTHER DESIGNATION OF THE PERSON OF THE					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							with the second second								
67100100	MOBILIZATION	L SUM	1	1															
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	805	805															
70400100	TEMPORARY CONCRETE BARRIER	FOOT	275	275															
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275															
<b>*</b> 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1184	1184															
<b>*</b> 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	6	6															
<b>*</b> 78200410	GUARDRAIL MARKERS, TYPE A	EACH	9	9															
<b>X</b> 78200530	BARRIER WALL MARKERS, TYPE C	EACH	13	13			17											4	1.2
78300100	PAVEMENT MARKING REMOVAL	SQ FT	250	250															
X0326276	TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SUM	1	1			-												
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			·												
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	2200	2200															
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	36	36															
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1 -			-												
Z0004552	APPROACH SLAB REMOVAL	SO YD	266	266															1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ ŽYD	410	410									· · · · · · · · · · · · · · · · · · ·						
				v **															Da
FILE NAME =		SIGNED -		REVISED			1	<u> </u>	PTATE OF			<del>1</del>		1	F.A. RTE	P. SE	CTION	COUNTY	TOTAL S
c:\pw_work\pwidol\midy	PLOT SCALE = 50,0000 // IN. CH	RAWN - HECKED -		REVISED REVISED REVISED						F ILLINOIS TRANSPORTA	SCALE: SHEET NO. OF	OF QUANT		O STA.	84 FED		B-2-BR	WILL CONTRACT	26



#### 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 ADJUSTMENT 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 BASED AT THE UNIT PRICE BID FOR THE WORK.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR. 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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.

AREA OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

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

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 INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

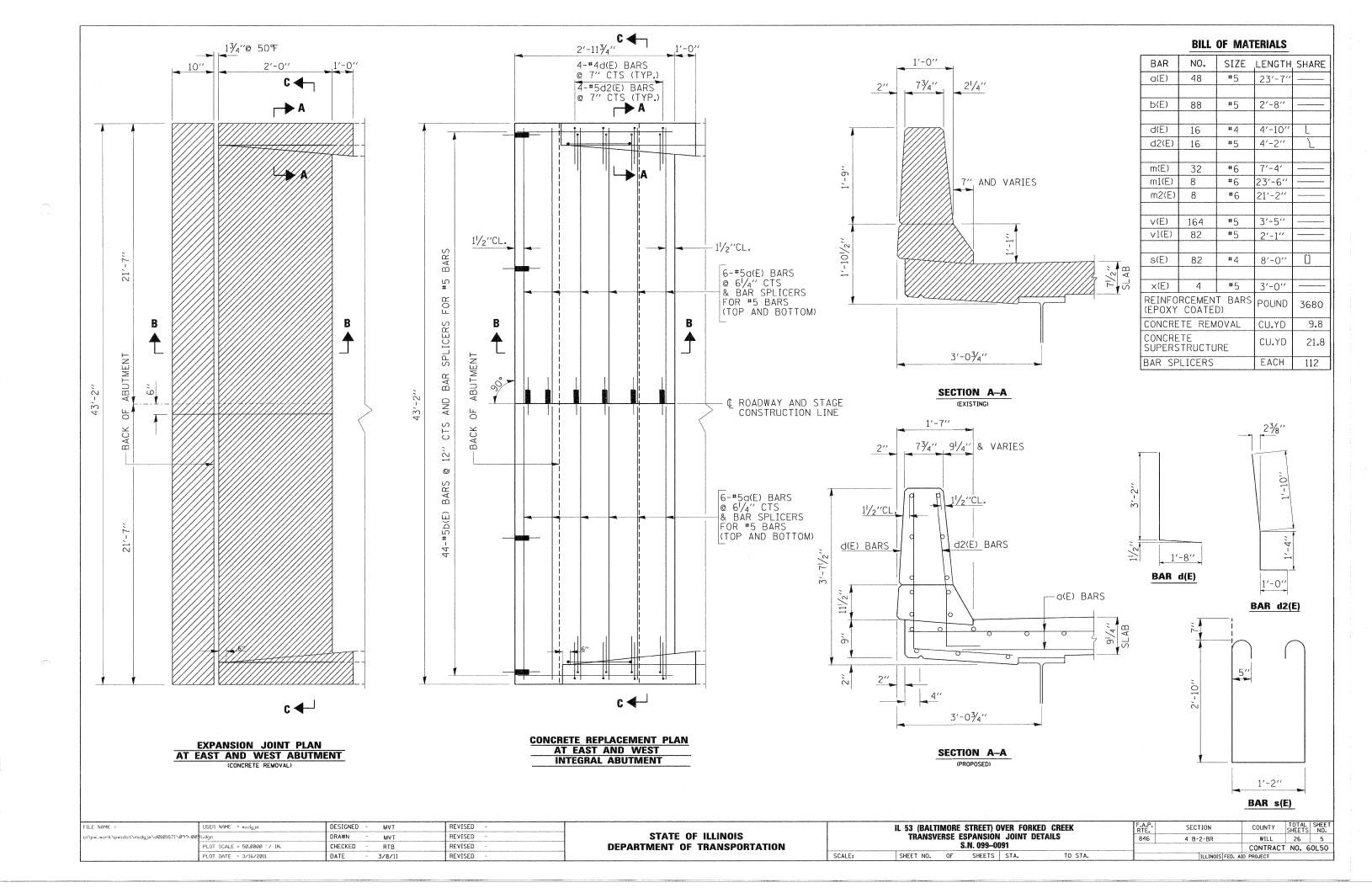
#### NO IN-STREAM WORK ALLOWED.

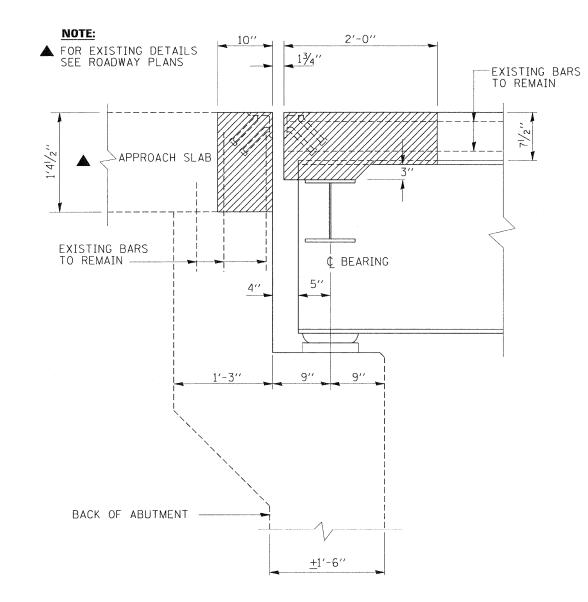
FIELD CUTS OF PROPOSED REINFORCEMENT BARS TO FIT FIELD CONDITIONS SHALL BE INCUDED IN THE COST OF REIFORCEMENT BARS EPOXY COATED.

#### TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS (EPOXY COATED)	POUND	3680
CONCRETE SUPERSTRUCTURE	CU. YD.	21.8
CONCRETE REMOVAL	CU. YD.	9.8
BRIDGE DECK LATEX CONCRETE OVERLAY, 21/2"	SQ. YD.	410
BRIDGE DECK SCARIFICATION, 3/4"	SQ. YD.	410
STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")	SQ. FT.	62
BRIDGE DECK GROOVING	SQ. YD.	413
DECK SLAB REPAIR (FULL DEPTH TYPE II)	SQ. YD.	1
BAR SPLICERS	EACH	112
ADJUSTING DRAINAGE SCUPPER, TYPE A	EACH	2
PROTECTIVE COAT	SO. YD.	94

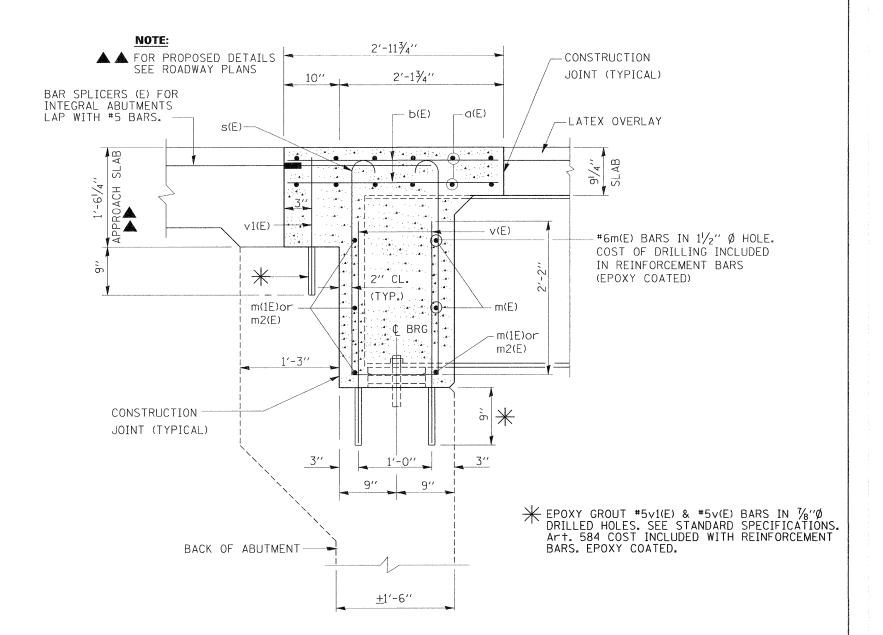
TOTAL SHEET NO. IL 53 (BALTIMORE STREET) OVER FORKED CREEK SECTION DRAWN REVISED STATE OF ILLINOIS GENERAL PLAN, ELEVATION AND CROSS SECTION WILL 4 B-2-BR 26 4 CHECKED RTB REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 50.0000 '/ IN. CONTRACT NO. 60L50 TO STA. SHEET NO. OF SHEETS STA. ILLINOIS FED. AID PROJECT PLOT DATE = 3/16/2011 DATE 3/8/11 REVISED SCALE:





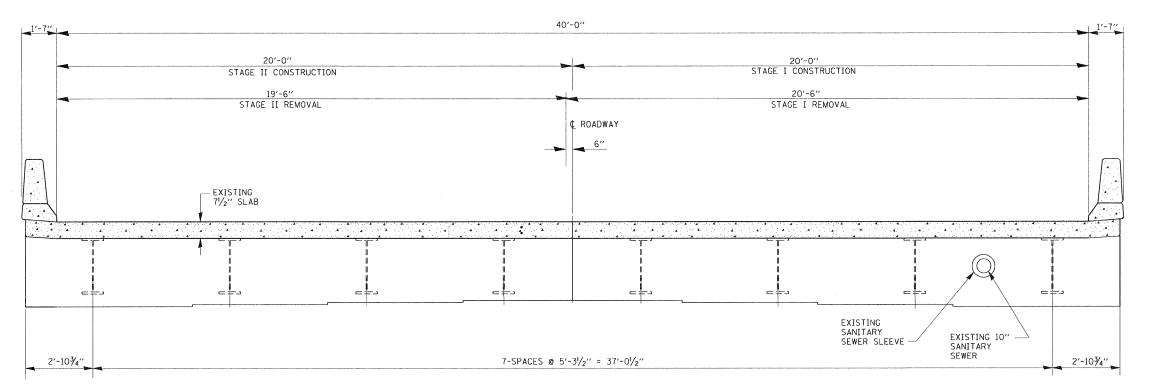
EXISTING SECTION B-B

(HATCHED AREA INDICATES REMOVAL)

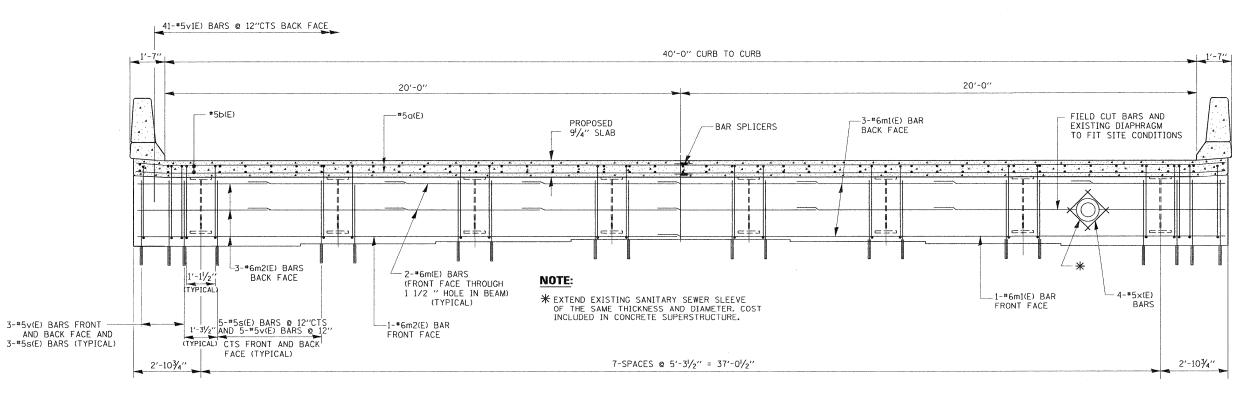


PROPOSED SECTION B-B

FILE NAME =	USER NAME = midyja	DESIGNED - MVT	REVISED -			IL 53 (BALT	IMORE	STREET)	OVER FORKED	CREEK	F.A.P.	SECTION	COUNTY	SHEETS	SHEET NO.
c:\pw_work\pwidot\midyja\d0101671\099-00	11.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS		·		ral abu			846	4 B-2-BR	WILL	26	6
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - RTB	REVISED -	DEPARTMENT OF TRANSPORTATION			S	.N. 099-0	091				CONTRAC	T NO. 6	0L50
	PLOT DATE = 3/16/2011	DATE - 3/8/11	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



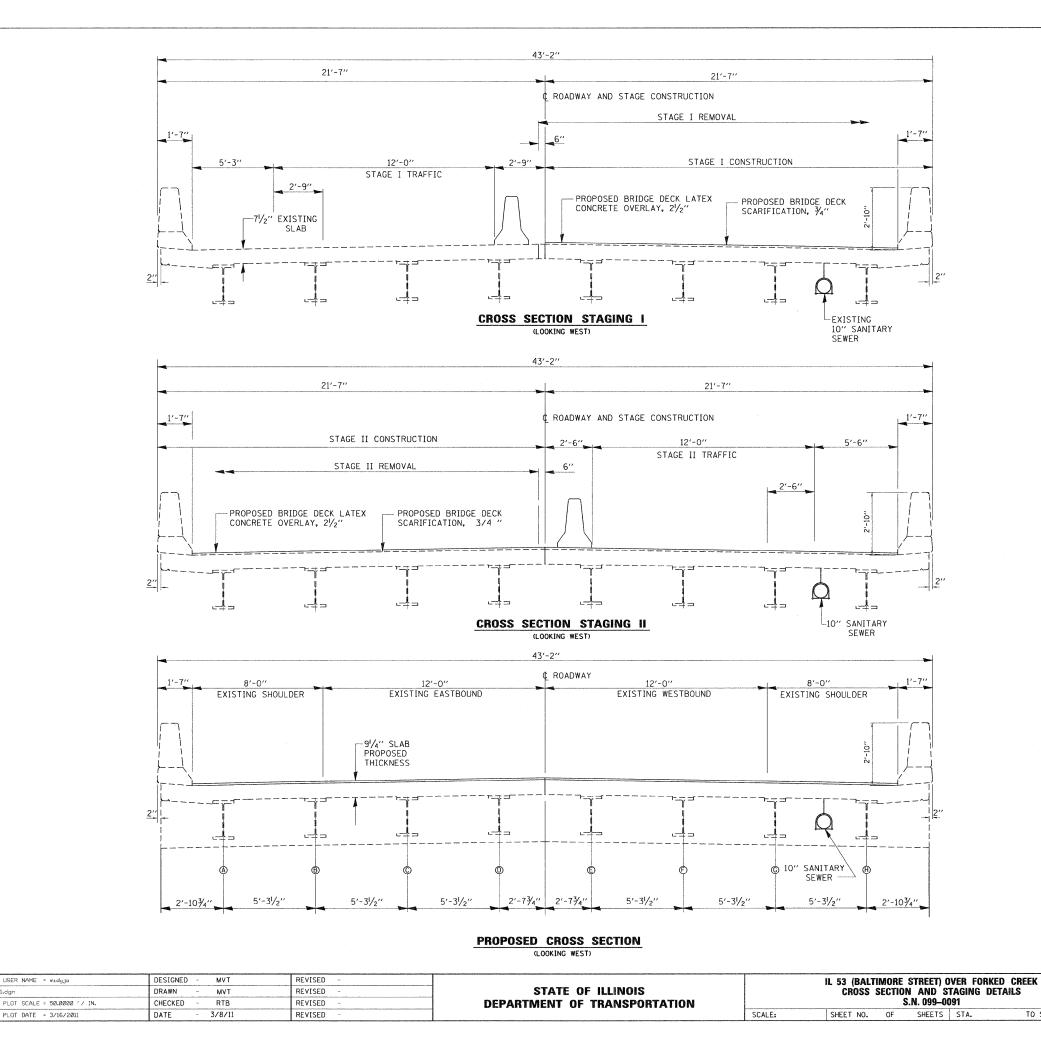
# EXISTING SECTION C-C WEST ABUTMENT SHOWN (LOOKING WEST)



BAR LAF	YABLE
SIZE	LENGTH
#5	1′ -8′′
#6	2' -0"

#### SECTION C-C (PROPOSED)

FILE NAME =	USER NAME = midyja	DESIGNED -	MVT	REVISED -			IL 53 (BAL					RKED CREEK		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	RTB	REVISED -	DEPARTMENT OF TRANSPORTATION				S.N	I. 099(	0091					CONTRA	CT NO. 6	0L50
	PLOT DATE = 3/16/2011	DATE -	3/8/11	REVISED -		SCALE:	SHEET NO.	OF	=	SHEETS	STA.	TO STA	١.		ILLINOIS FEI	D. AID PROJECT		



FILE NAME =

F.A.P. RTE. 846

TO STA.

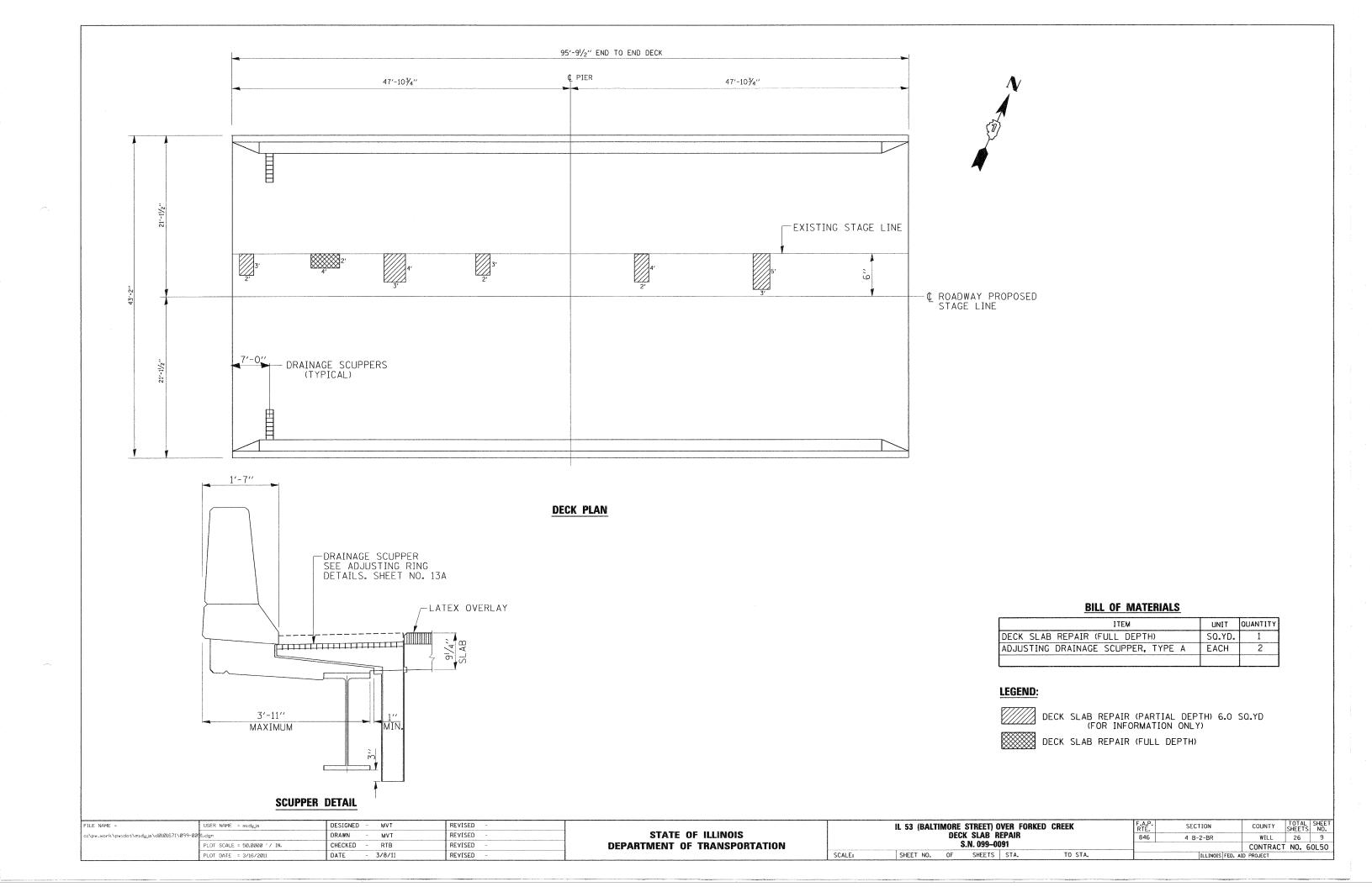
SECTION

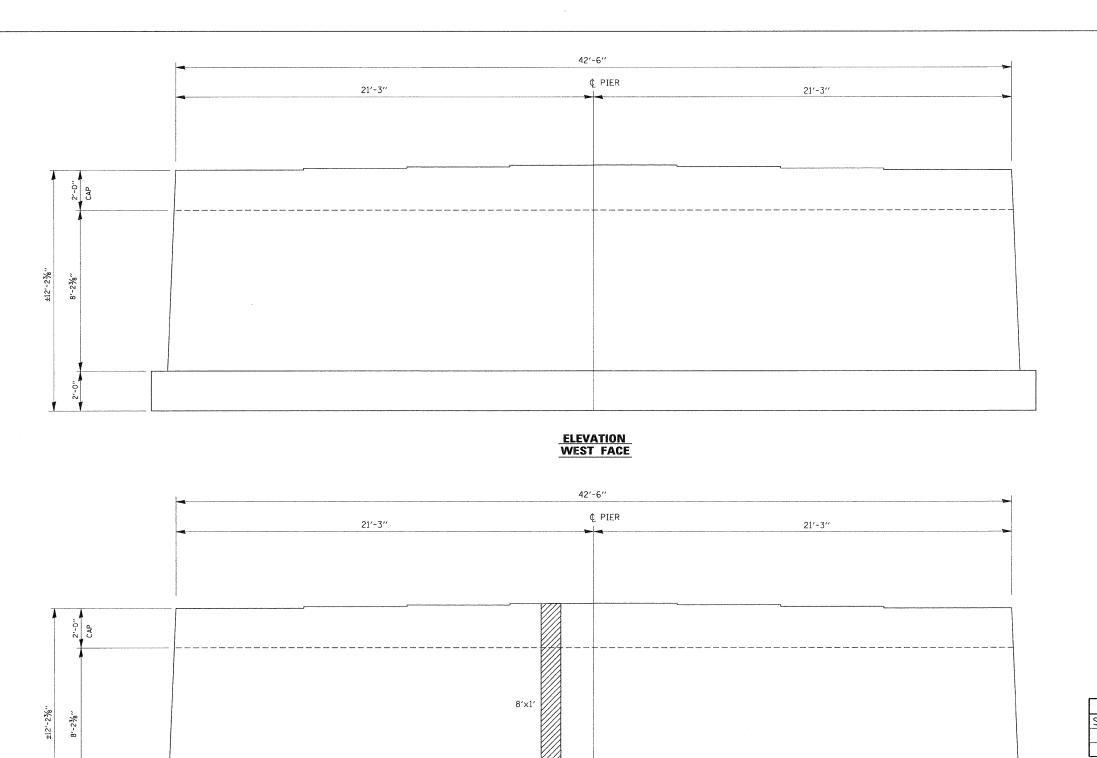
4 B-2-BR

ILLINOIS FED. AID PROJECT

WILL 26 8

CONTRACT NO. 60L50





#### **BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE < 5"	SQ.FT.	8
		1

#### LEGEND:

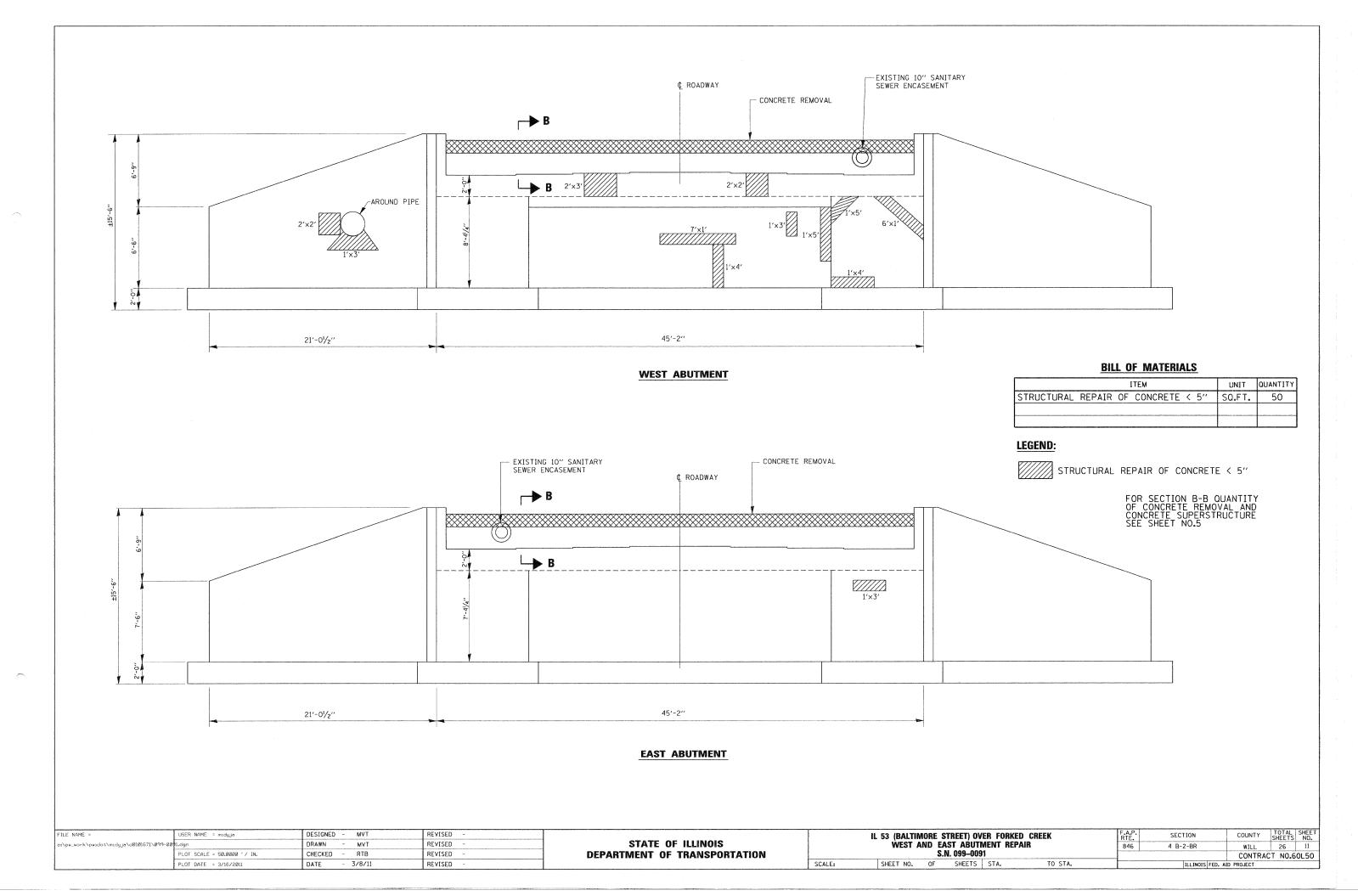
STRUCTURAL REPAIR OF CONCRETE < 5"

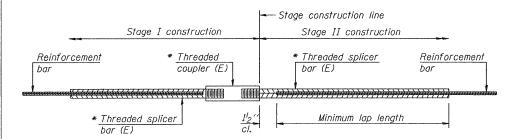
### ELEVATION EAST FACE

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	PLOT DATE = 3/16/2011	DATE - 3/8/11	REVISED -	1

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	IL 53			OVER FORKED	CREEK	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	S
			PIERS			846	4 B-2-BR		WILL	26	
	,,		S.N. 099	0091				C	ONTRACT	NO. 6	0
CALE:	SHEET NO	. OF	SHEETS	STA.	TO STA.		ILLINOIS F	ED. AID P	ROJECT		





#### 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

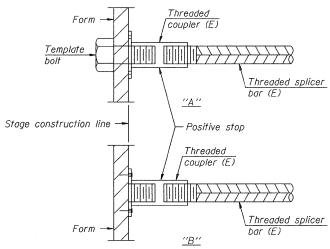
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

Threaded splicer bar length = min. lap length +  $1_2^{l}$ " + thread length

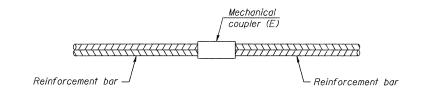
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Bar size	No. assemblies required	Table for minimum lap length
#5	24	
	size	size required



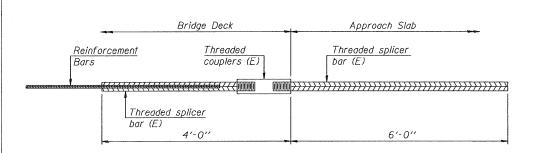
#### INSTALLATION AND SETTING METHODS

"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.



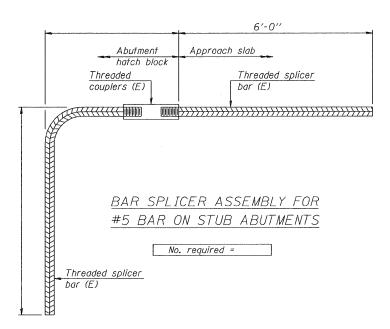
#### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 88



#### 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

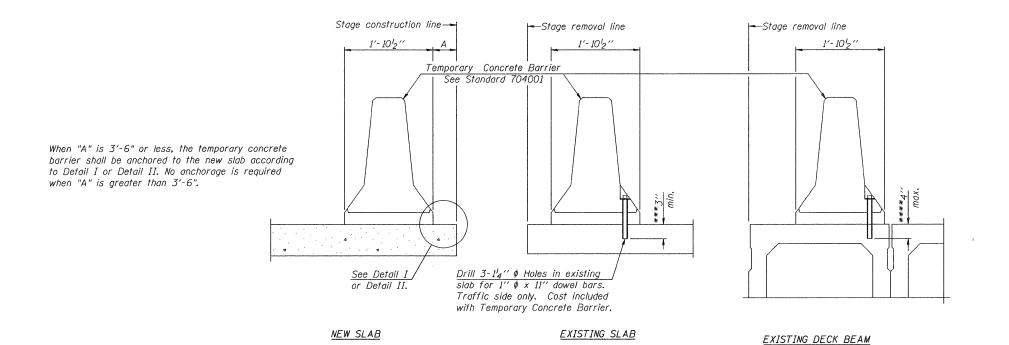
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	PLOT DATE = 3/16/2011	DATE - 3/8/11	REVISED	

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

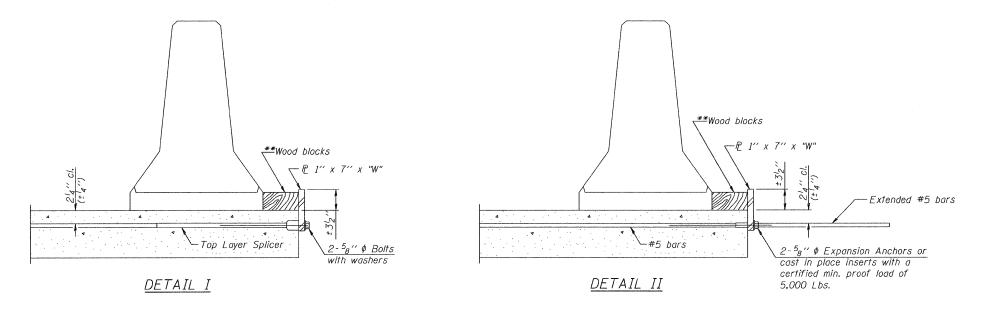
BAR

SCALE:

SPLICER ASSEMBLY AND MECHANICAL SPLICER	DETAIL &	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 099-0091	DEIMILO	846	4 B-2-BR	WILL	26	12
2.W. 0aa00a1				CONTRACT	NO. 6	0L50
SHEET NO. OF SHEETS STA. TO	STA.		ILLINOIS FED. AI	D PROJECT		



#### SECTIONS THRU SLAB OR DECK BEAM



\*\* 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"

#### NOTES

Detail I - With Bar Splicer or Couplers:

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

Detail II - With Extended Reinforcement Bars:

Connect one (1) 1" x 7" x "W" steel 12 to the concrete slab or concrete wearing surface with 2-58" \$\phi\$

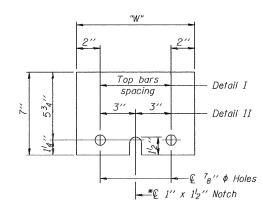
Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathcal{C}\$ of each barrier panel.

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.

- \*\*\* 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.

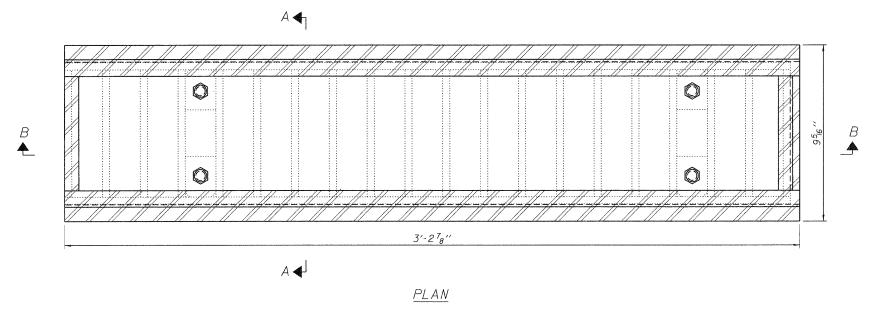


#### STEEL RETAINER P 1" x 7" x "W"

\* Required only with Detail II

R-27 7-1-10

1 1 2 1										
FILE NAME :	USER NAME = midyJo	DESIGNED - MVT	REVISED -			IL 53 (BALTIMORE STREET) OVER FORKED CREEK	F.A.P.	SECTION	COUNTY TOTAL S	NO.
c:\pw_work\pwidot\midyJa\d0101671\099-00	.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS	TEMPO	DRARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	846	4 B-2-BR	WILL 26	13
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - RTB	REVISED ~	DEPARTMENT OF TRANSPORTATION		S.N. 099–0091			CONTRACT NO. 60	L50
	PLOT DATE = 3/16/2011	DATE - 3/8/11	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	



#### NOTES

See sheet 9 of 26 for scupper locations.

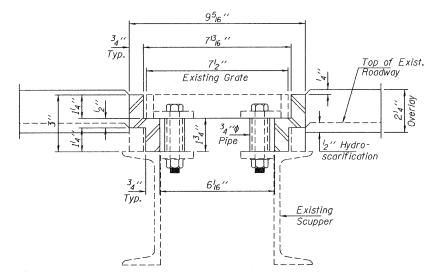
All structural steel shall be AASHTO M270 Grade 36. The adjusting scupper ring and 3/4 "\$\phi\$ pipe sleeve spacers shall be galvanized.

Bolts shall be 1/2 "\$\phi\$ AASHTO M164 Type 1, mechanically galvanized.

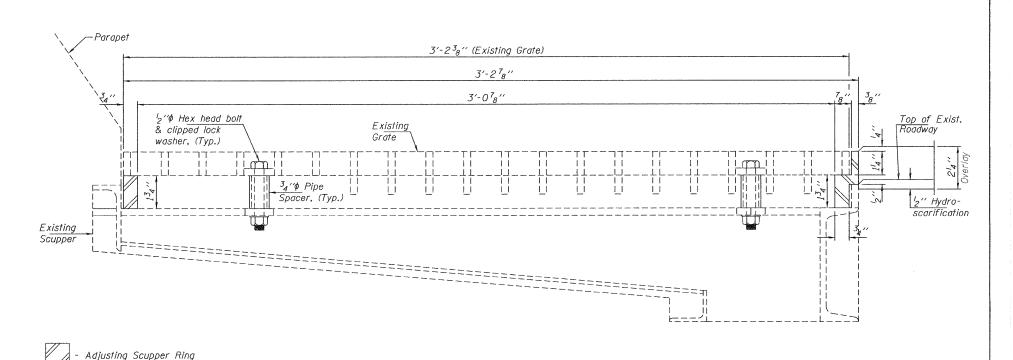
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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 based at the unit price bid for the work.

Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.

Contractor shall ensure that no damage is done to existing grates to be reused. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Adjusting Drainage Scupper, Type A.



SECTION A-A



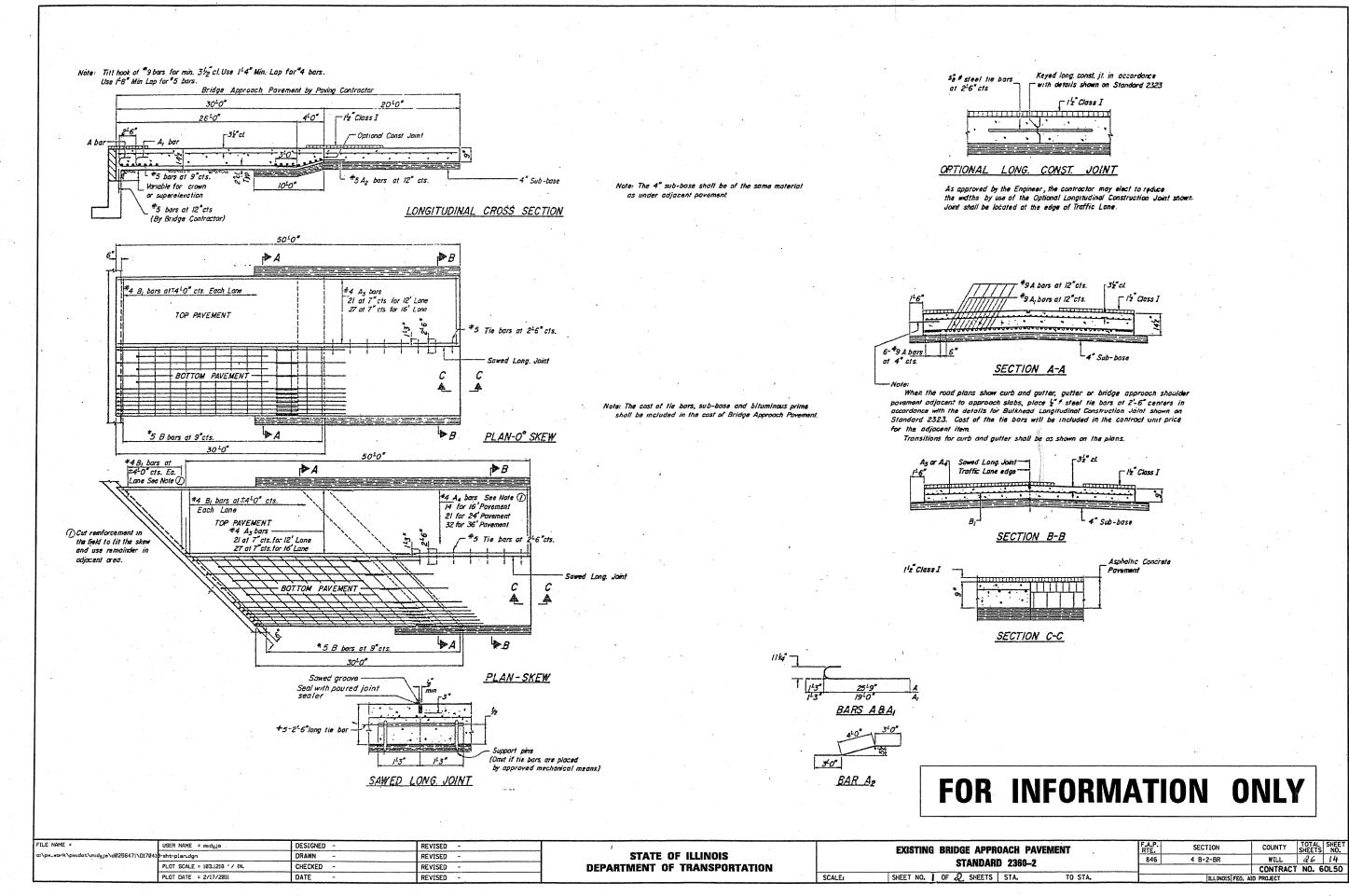
SECTION B-B

#### BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Adjusting Drainage Scupper, Type A	Each	2

#### BA-0 7-1-10

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -			ADJUSTING DRAINAGE SCUPPER, TYPE A DETAIL						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\midyja\dØ101671\099-00	1.dgn	DRAWN ~	REVISED -	STATE OF ILLINOIS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION S.N. 099-0091					846	4 B-2-BR	WILL	26 13A		
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 60L50	
	PLOT DATE = 3/16/2011	DATE	REVISED ~		SCALE:	SHEET NO.	OF		SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT	



#### QUANTITIES FOR 50-FOOT APPROACH SLAB

	Bottor									
Skaw	<b>#</b> 5 B	bars	Α -		#4 A3	bars	#4 A4	bars	Total	1
Angle	No.	Length	A; A2	В,	No.	Length	No.		Weight bars-ibs.	-

-	Botton	n Reinfor	cement			Top Reinfo	rcement	-	1
Skew	#58 bars		А		#4 A <sub>3</sub> bars		#4 A 4	bars	Total
Angle	No.	Length	A <sub>1</sub> A <sub>2</sub>	₿,	No.	Length	No.	Length	Weight bars-lbs.

	Botton	n Reinfor	cement						
<u></u>	#5 E	bors	А		#4 A	3 bars	#4 A	4 bars	Total
Skew Angle	No.	Length	A1	81	No.	Length	No.	Length	Weight bors - lbs

#### 16-FOOT WIDTH PAVEMENT

								4.1		
.0°	40	15'-6"			54	25-6"			4910	
5°	40	15-7"		, .	54	25'- 4"	14	3-11"	4950	
100	40	15'-9"			54	25'-0"	14	5-2"	4950	] }
150	40	16 -1"			54	24-9"	14	6-5"	4970	int
20°	40	16-6"		2	54	24'- 5"	14	7'-9"	4990	6 .
25°	40	17'-1"	2.3	9 -	54	24'-0"	14	9'.2"	5010	ach Por Sq Yds Course Tans
30°	40	17'-11"	27 20 20	1.5	54	23'- 8"	14	10-9"	5050	Sq Cour Ton:
35 °	40	18'-11"	sn in		54	23: 3"	14	12.6"	5090	laproach 89 Sq ace Cour 8 Ton
40*	40	20'-3"	bors bors	bar	54	22-9"	14	14'-5"	5150	re Ass
45 °	40	21-11"	4 7 P	9	54	22' 2"	14	16'-8"	5220	
50°	40	24-1"	49	4	54	21'-6"	14	19-4"	5310	Bridg Canc.
55°	40	27-0"	4 - 5	3.	54	20'-8"	14	22'8"	5430	Bit.
50°	40	31'-0"	0 7 0		54	19'-8"	14	26'-11"	5600	

#### 24-FOOT WIDTH PAVEMENT

0°	40	23-6"			84	25'-6"		-	7190	<u> </u>
5°	40	23:7"			84	25'- 2"	21	4'-9"	7240	
10 0	40	231 10"	]		64	24'-8"	21	6'-11"	7250	
150	40	24: 4"	]		84	24'-0"	21	9'-1"	7270	ement Class
20 °	40	25:0"	]		84	23'-6"	21	11'-5"	7300	ovemen ds,
25°	40	25-11"	0 % 0	. 9	84	22'-10"	21	13'-10"	7340	ch Pow Sq. Yds, urse, (
30 °	40	27: 2"	20:	1	84	22'- 3"	21	16'- 6"	7390	13.0
35 .	40	28' 8"	] n 4 m	6	84	21'-6"	21	19'- 6"	7450	4907 133
40°	4Ò	30' 8"	bors bars bars	bars	84	20-8"	21	22'-10"	7540	11
45 "	40	33: 3"	4 4 4	8	84	19'-8"	21	26-8"	7640	
50 °	80	19! 1"	0 0 5	4	42	35-3"	21	3/-3"	7800	Briu Conc.
55 °	80	21-4"	2 6 2	-92	42	32-6"	21	36'-11"	7990	Bit.
60°			W 2 W							

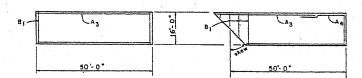
<sup>\*</sup> Requires greater than 50 foot Approach Slab

#### 36-FOOT WIDTH PAVEMENT

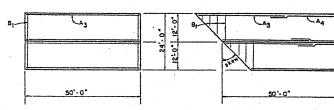
	0°	40	35'-6"			126	25'-6"			10560	
•	5°	40	35-8"			126	24'-11"	32	5'-10"	10640	
	10 •	40	36'-0"	] .		126	24-1"	3Ż	9.0"	10650	5
	15*	80	19-4"	1		126	23 - 3"	32	12:4"	10770	nant Closs
	20 °	80	19'-10"			126	22:5"	32	15'-9"	10810	6 6
	25°	80	20:7"	2 2 0	9	126	21'-6"	32	19'-6"	10880	- 6 2
	30 °	80	21'-6"	20:	>	126	20'-6"	<i>32</i>	23'- 6"	10950	25.27
	35.	80	22'-8"			126	19'-4"	32	27'-10"	11050	1,00
	40 °	80	24'-2"	bors bors	bars	63	34'-6"	32	32'-10"	11100	Sur
ķ	45.		-	A 4 4	87						Bridge Conc.
ŕ	50 °			0 0 5	4.						н -
6	55°			4 . 4	,						Bit.
4	60 *			4 10 4	39	[.					

\* Requires greater than 50 foot Approach Slab

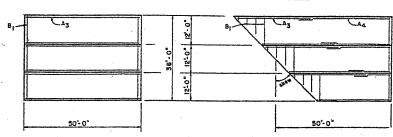
#### TOP OF SLAB BAR ARRANGEMENT



#### TOP OF SLAB BAR ARRANGEMENT

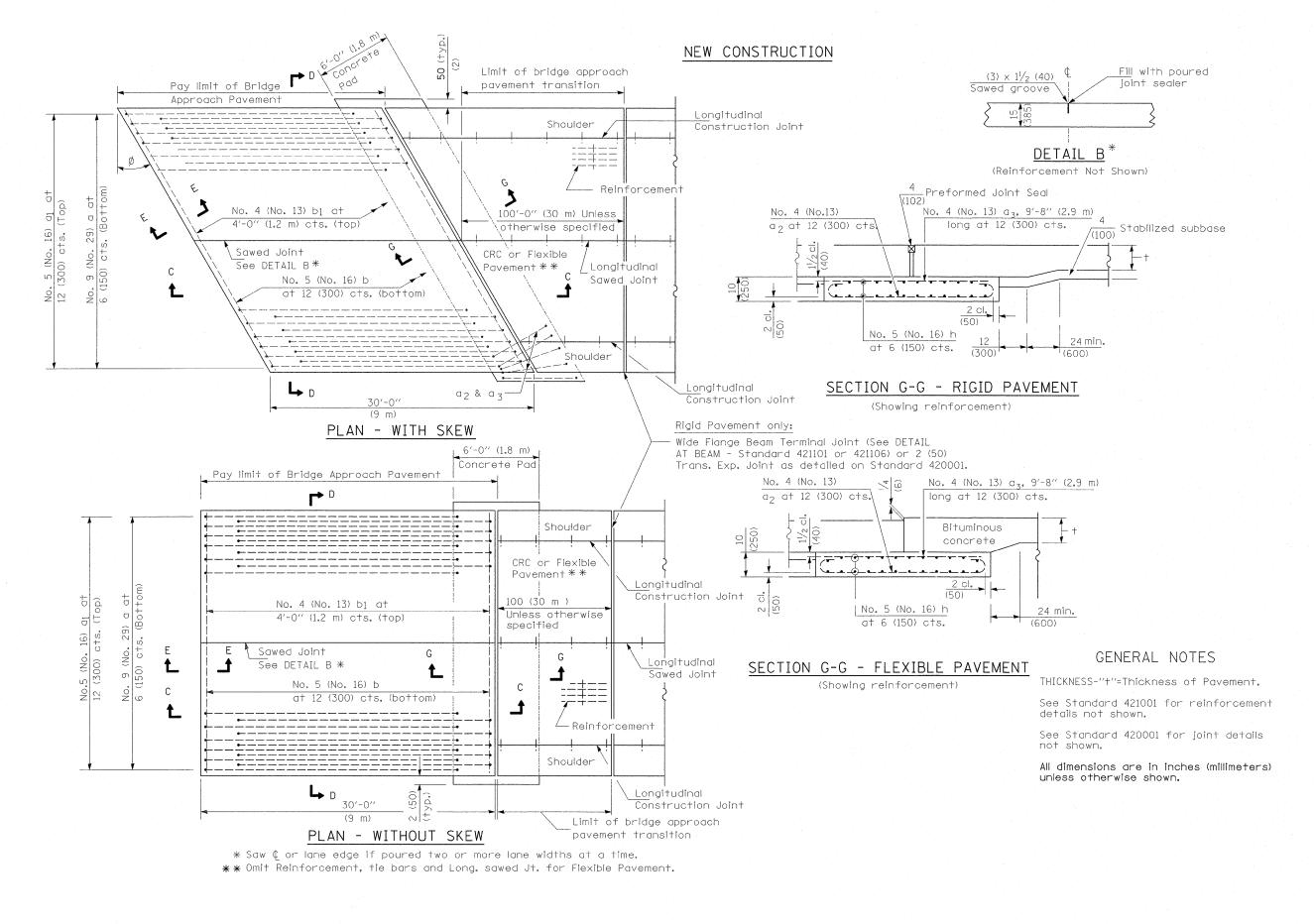


#### TOP OF SLAB BAR ARRANGEMENT

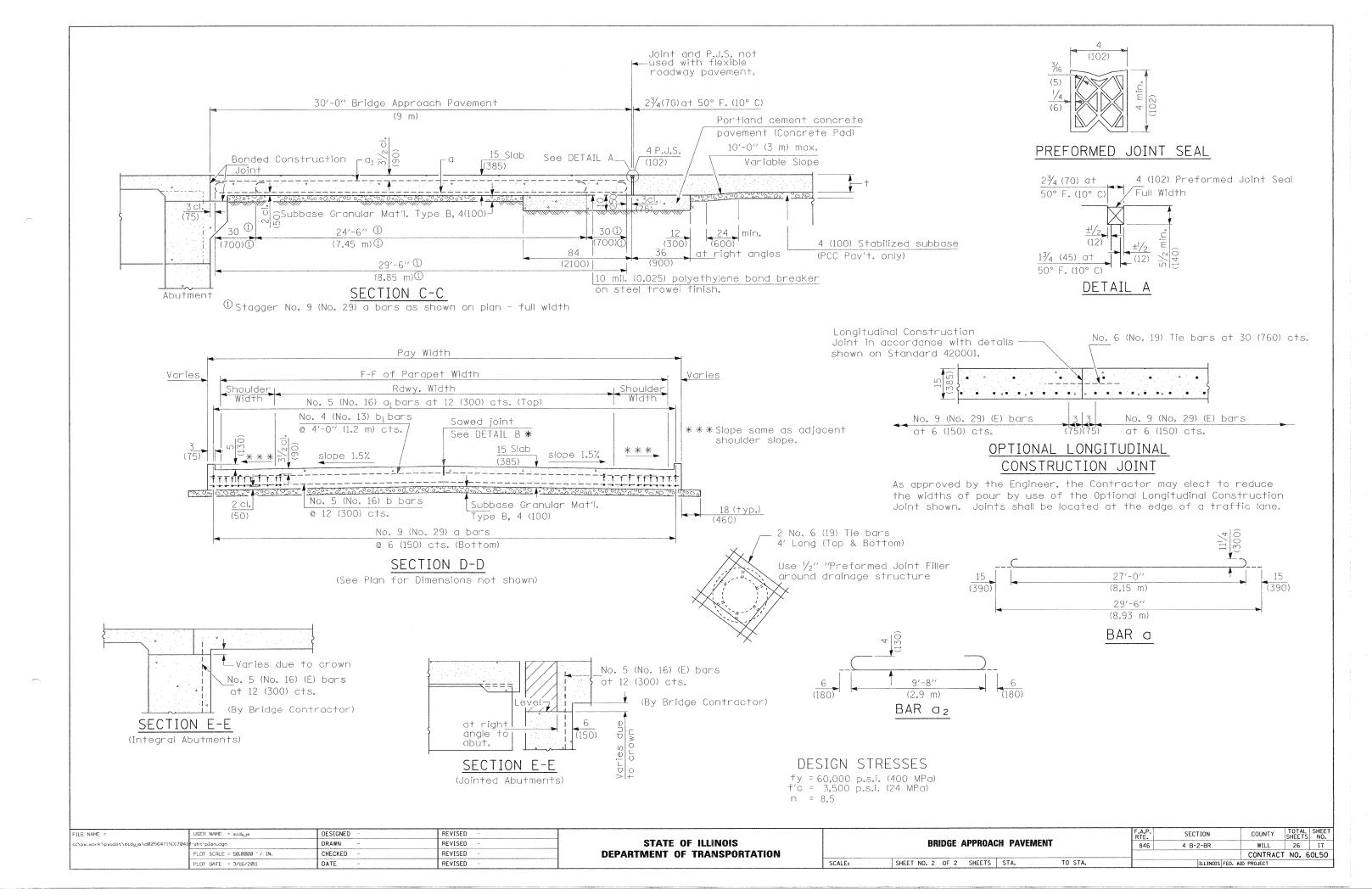


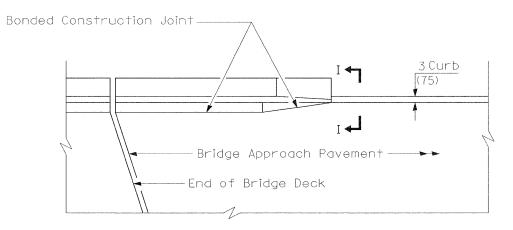
# FOR INFORMATION ONLY

FILE NAME =	USER NAME = midgja	DESIGNED -	REVISED -			EXISTING BRIDGE APPROACH PAVEMENT	F.A.P. RTE.	SECTION	COUNTY SHEETS NO.
c:\pw_work\pwidot\midyja\d0256471\D17041	8-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	STANDARD 2360-2		846	4 B-2-BR	WILL   26   15
	PLOT SCALE = 103.1218 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 60L50
	PLOT DATE = 2/17/2011	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

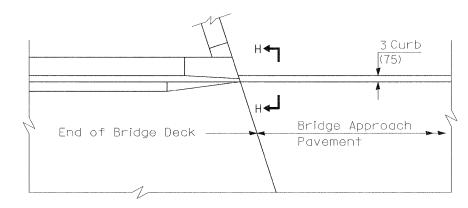


DESIGNED REVISED ILE NAME = USER NAME = midyja SECTION TOTAL SHEE DRAWN REVISED STATE OF ILLINOIS **BRIDGE APPROACH PAVEMENT** sht-plan.dgn 846 4 B-2-BR WILL 26 PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60L50 SHEET NO. 1 OF 2 SHEETS STA. PLOT DATE = 2/18/2011 DATE REVISED SCALE: TO STA. ILLINOIS FED. AID PROJECT

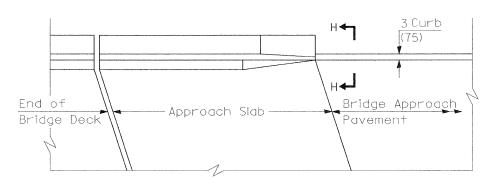




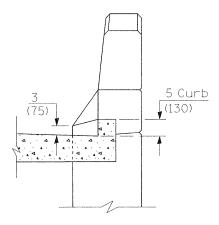
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



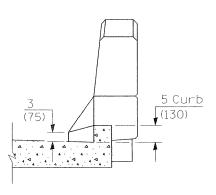
PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT



SECTION I - I

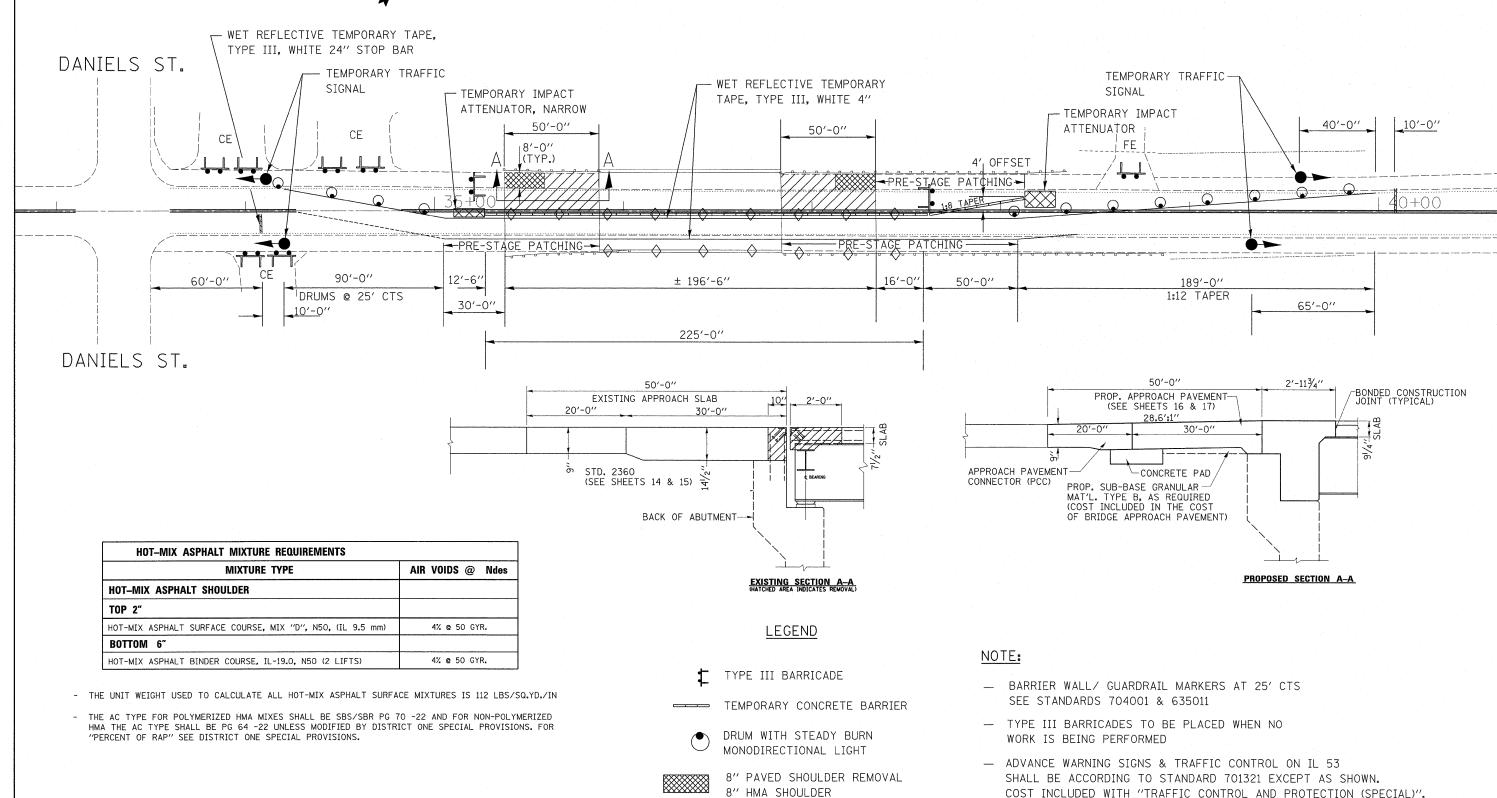


SECTION H - H

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -				F.A.P.	SECTION	COUNTY	TOTAL	L SHI	ET O.
c:\pw_work\pwidot\midyja\d0256471\D17041	-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		BRIDGE APPROACH PAVEMENT	846	4 B-2-BR	WILL	26	1	7A
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRA	CT NO.	60L	50
	PLOT DATE = 3/16/2011	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT			



### IL. ROUTE 53



COST INCLUDED WITH "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

		·		
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	ĺ
	PLOT DATE = 2/18/2011	DATE -	REVISED -	Ĺ

STATE OF ILLINOIS

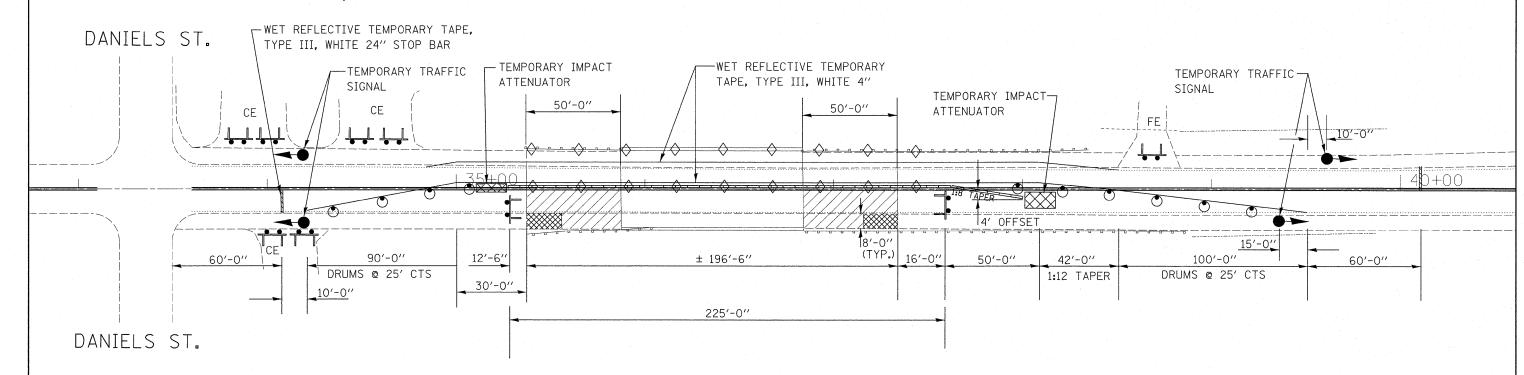
**DEPARTMENT OF TRANSPORTATION** 

APPROACH PAVEMENT

			STAGE	I					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TRAFFIC CONTROL AND RESURFACING								846	4 B-2-BR	WILL	26	18
	, , , , , ,	0 001	TINGE AN	ID IILO	oili Aoi				CONTRACT NO. 60L5				
SCALE:	ALE: SHEET NO. OF SHEETS STA. TO STA.									ILLINOIS FED. A	D PROJECT		



### IL. ROUTE 53



#### LEGEND

TYPE III BARRICADE

TEMPORARY CONCRETE BARRIER

DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

8" PAVED SHOULDER REMOVAL
8" HMA SHOULDER

APPROACH PAVEMENT

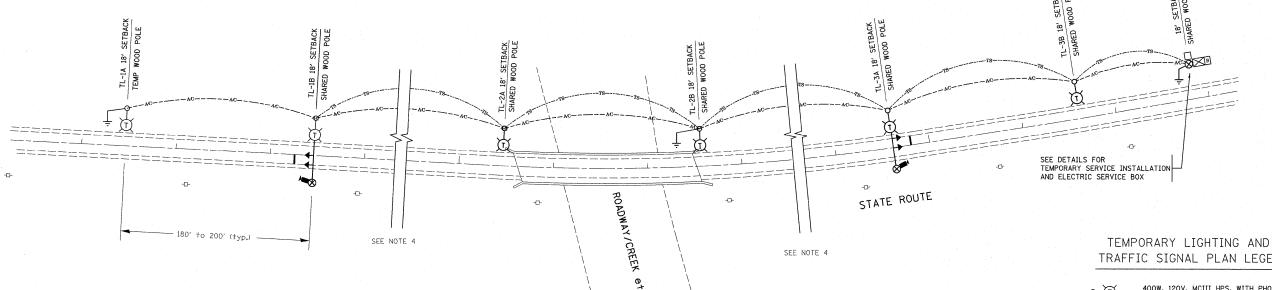
#### NOTE:

- BARRIER WALL/ GUARDRAIL MARKERS AT 25' CTS SEE STANDARDS 704001 & 635011
- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- ADVANCE WARNING SIGNS & TRAFFIC CONTROL ON IL 53
   SHALL BE ACCORDING TO STANDARD 701321 EXCEPT AS SHOWN.
   COST INCLUDED WITH "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED ~
	PLOT DATE = 2/18/2011	DATE -	REVISED -

STATE	OF	ILLINOIS	
DEPARTMENT	OF T	<b>TRANSPORTATION</b>	

			STAGE	II		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	TRAFE	ic coi	NTROL AN	IN RESI	RFACING	846	4 B-2-BR	WILL	26	19
								CONTRACT	NO. 6	50L50
SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

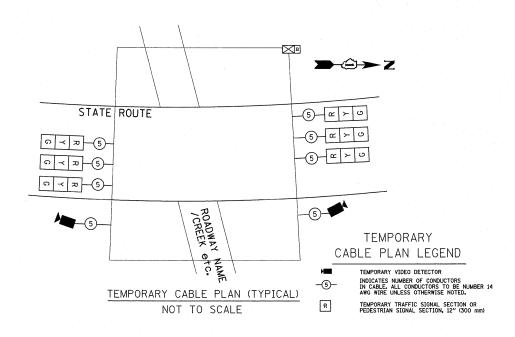


TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS

NOT TO SCALE

#### GENERAL NOTES:

- CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING, NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENSE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
- 2. UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN, FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 750-WATT TYPE III HIGH PRESSURE SODIUM HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.
- 3. THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED
- THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE. DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED
- 5. THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, CABLE, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.
- 6. THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.
- 7. EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
- 8. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALENT OR AN APPROVED UL LISTED AERIAL
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.



### TRAFFIC SIGNAL PLAN LEGEND

400W, 120V, MCIII HPS. WITH PHOTO CELL 15' MA, 50' MH ON WOOD POLE, CLASS 4 3-1/C#2, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED TL-1A TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A GROUND ROD 5/8" DIA. x 10' COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX

 $\otimes$ TEMPORARY WOOD POLE - NOMINAL 60 FT., CLASS 4 TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED. TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED.

В TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM PLATE MOUNTED TO WOOD POLE

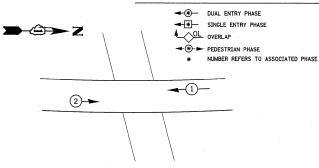
TEMPORARY VIDEO DETECTOR

#### TEMPORARY PHASE DESIGNATION DIAGRAM LEGEND

COUNTY TOTAL SHEETS NO. WILL 26 20

CONTRACT NO. 60L50

COUNTY

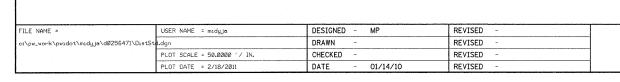


TEMPORARY PHASE DESIGNATION DIAGRAM (TYPICAL) NOT TO SCALE

FILE NAME =	USER NAME = midyja	DESIGNED - MP	REVISED -
c:\pw_work\pwidot\midyja\dØ256471\DistSt	l.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.00000 '/ IN.	CHECKED ~	REVISED ~
	PLOT DATE = 2/18/2011	DATE - 01/14/10	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

Ī	TEMPORARY LIGHTING AND TRAFFIC SIGNALS	TEMPORARY LIGHTING AND TRAFFIC SIGNALS						
l	FOR SINGLE LANE STAGING	846	4 B-2-BR	WILL				
ŀ		<u> </u>		BE-805	CONTRA			
l	SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.		FED. RO	DAD DIST. NO. 1   ILLINOIS FED. A	D PROJECT			

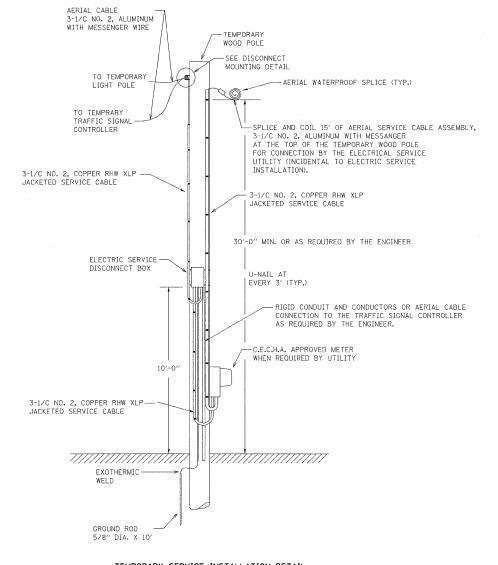


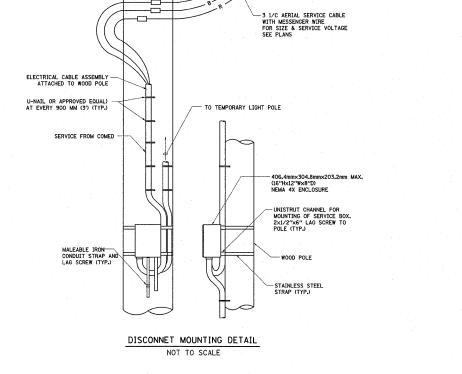
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	TEMPORARY LIGHTING AND	RTE.	SECTION	COUNTY	SHEETS	NO.		
	FOR SINGLE LANE	STACING		846	4 B-2-BR	WILL	26	21
		JIAGING			BE-805	CONTRACT	NO. 6	0L50
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1   ILLINOIS FED. A	ID PROJECT		

MESSENGER TIED TO
INSULATION WITH FACTORY
FORMED CABLE TIE. CONTRACTOR
ENSURE THAT THE MESSENGER WIRE
IS GROUNDED AT THE COM ED SIDE.

## TEMPORARY SERVICE INSTALLATION DETAIL NOT TO SCALE





EXISTING WOOD POLE

AERIAL WATERPROOF SPLICE-

LIGHT POLE 2
(CIRCUIT B)

TO LUMINAIRE
(TYP.)

1/C \*10 AWG
GOOV
COLOR CODED CABLE
(TYP.)

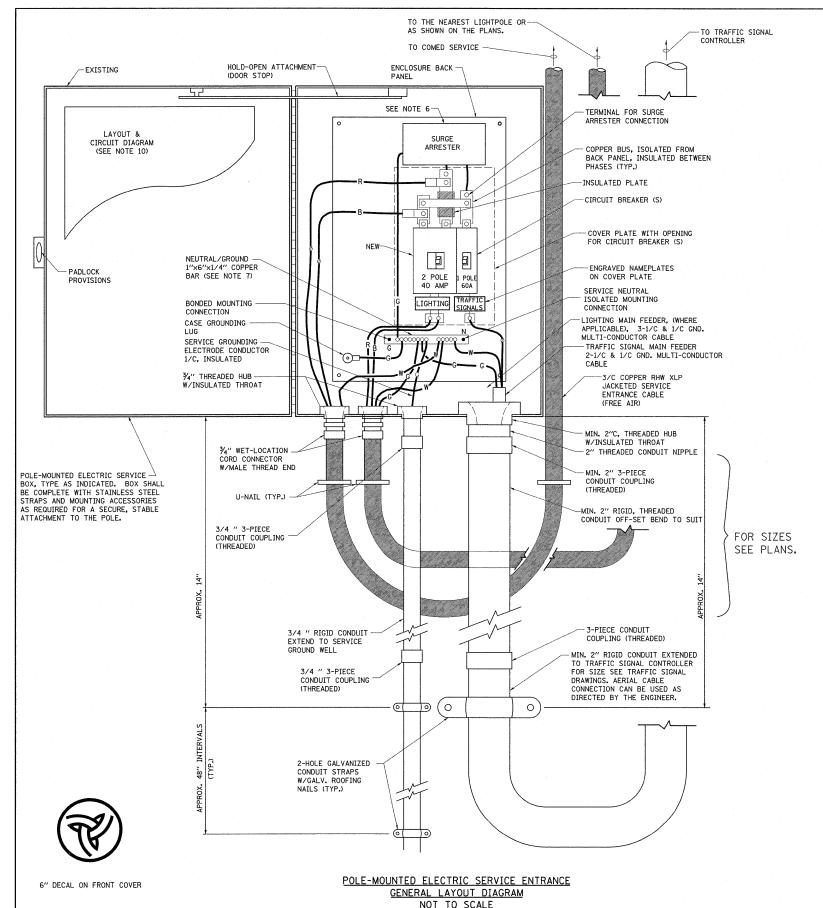
TWO-POLE BREAK
AWAY FUSE HOLDER
WITH INSULATING
BOOTS AND 5 AMP
FUSE ON THE LINE
WIRES AND SOLID
SLUIG ON NEUTRAL
WIRES (TYP.)

120/240 VAC
FROM
PREVIOUS
PREVIOUS
CONTROLLER

SEE PROPOSED LIGHTING PLANS
FOR EXACT SIZES

LIGHT POLE WIRING DETAIL

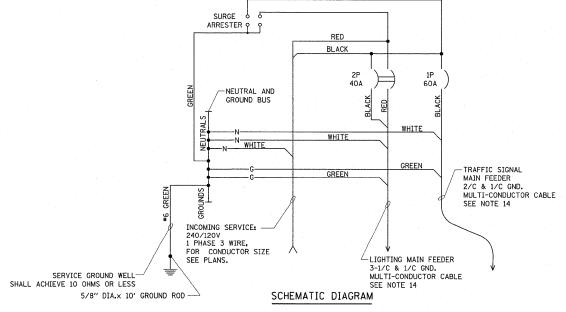
NOT TO SCALE



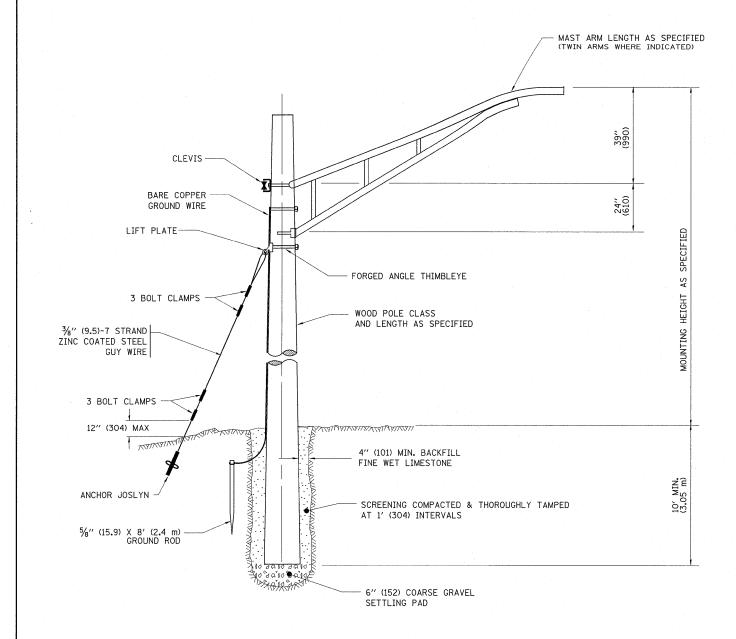
#### NOTES:

- 1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY, SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- 2. THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
- 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H12O8SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
- 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- 5. THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.

- 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE
  CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS
  AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS
  SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL
  BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING
  ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH
  OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL
  BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE
  MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE FNCLOSURE DOOR.
- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN REPEAKER.
- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

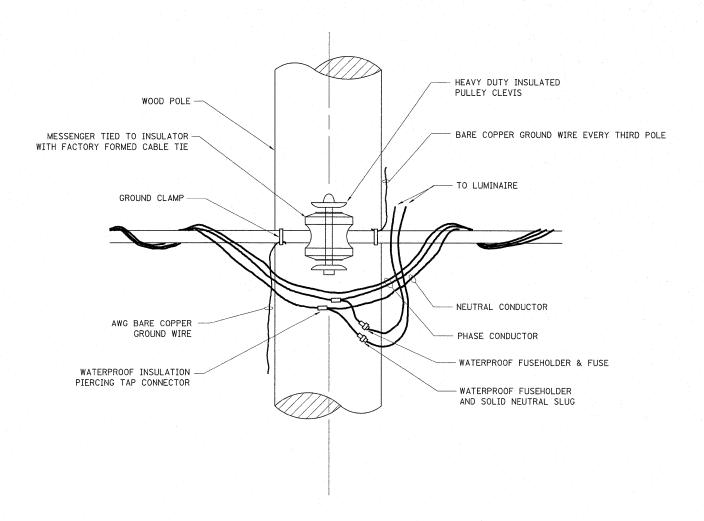


FILE NAME =	USER NAME = midyja	DESIGNED - MP	REVISED -			TEMPORARY LIGHTING AND TRAFFIC SIGNALS	F.A.P. SECTION	COUNT	ry TOTAL	SHEET
c:\pw_work\pwidot\midyja\d0256471\DistSt	d.dgn	DRAWN -	REVISED ~	STATE OF ILLINOIS			846 4 B-2-BR	WILL	L 26	22
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR SINGLE LANE STAGING	 BE-805	CONTR	RACT NO. 6	0L50	
	PLOT DATE ≈ 2/18/2011	DATE - 01/14/10	REVISED -		SCALE: NONE	SHEET NO. 3 OF 3 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	ED. AID PROJECT		



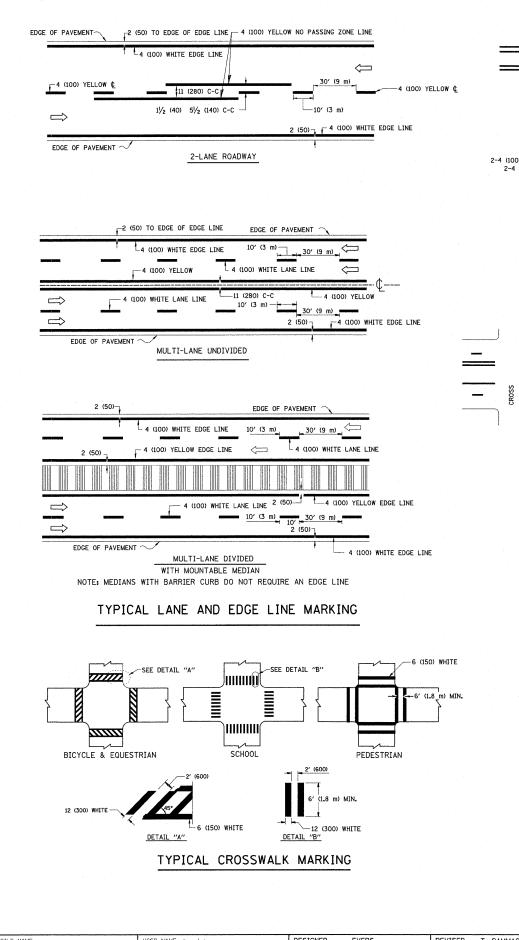
### TEMPORARY LIGHT POLE DETAIL

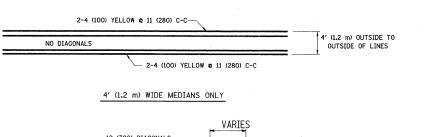
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

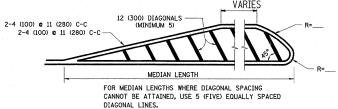


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME =	USER NAME = madyja	DESIGNED -	REVISED - 08-08-03		TEMPORARY LIGHT POLE DETAILS	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\midyja\dØ256471\DistSt	d.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	ILINIFORANT EIGHT FOLL DETAILS	846 4 B-2-BR	WILL 26 23
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		BE-800	CONTRACT NO. 60L50
	PLOT DATE = 2/18/2011	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

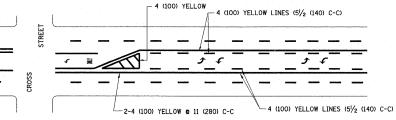




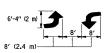


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

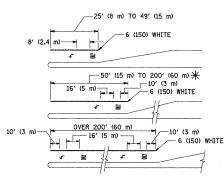


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING

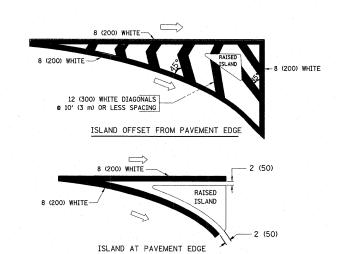


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SQ. FT. (1.5 m² )  $\P$  AREA = 20.8 SQ. FT. (1.9 m²)

★ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL
SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF
ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

TYPE OF MARKING CENTERLINE ON 2 LANE PAVEMENT	WIDTH OF LINE	PATTERN	COLOR	CD LOTHO / DELLIDIC
			COLOR	SPACING / REMARKS
	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 <b>Q</b> 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIACONALS (BIKE & EOUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 <b>e</b> 6 (150) 12 (300) <b>e</b> 45° 12 (300) <b>e</b> 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>@</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (0VER 45MPH (70 km/h))

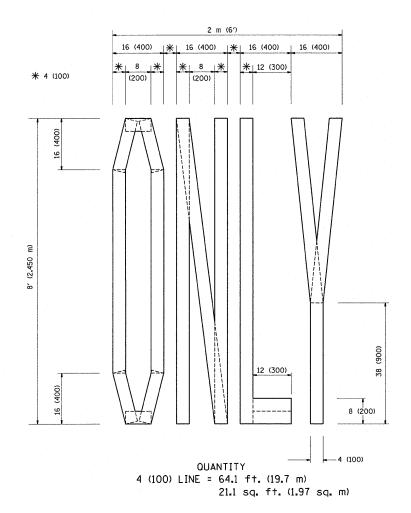
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

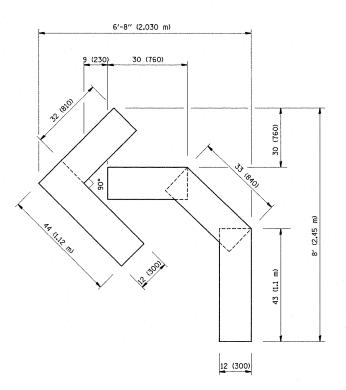
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = midyja	DESIGNED	-	EVERS	REVISED	-T. F	RAMMACHER	10-27-94
c:\pw_work\pwidot\midyja\dØ256471\DistSt	J.dgn	DRAWN	-		REVISED	-C.	JUCIUS	09-09-09
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	-		
	PLOT DATE = 2/18/2011	DATE	-	03-19-90	REVISED	-		

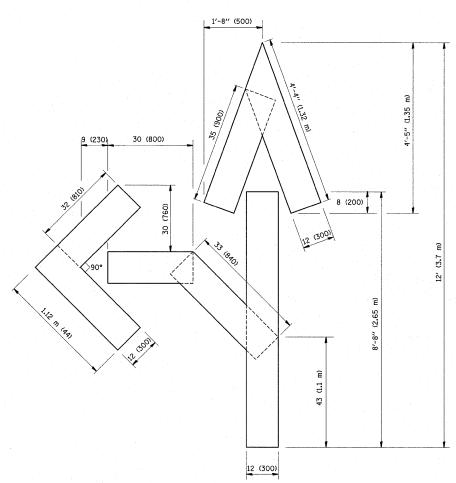
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
TYPICAL PAVEMENT MARKINGS				846	4 B-2-BR	WILL	26	24				
TYPICAL PAVEMENT WARKINGS						TC-13 CONTRACT NO. (						
SCALE: NONE	SHEET	NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					





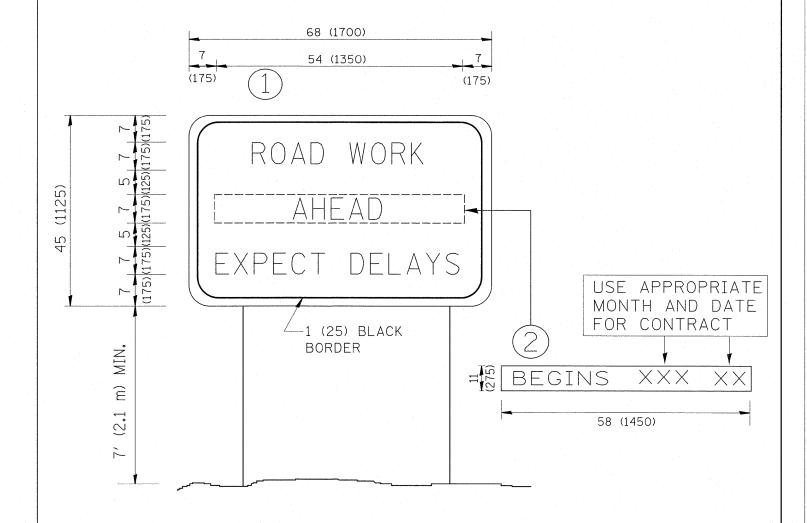
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

ŀ	FILE NAME =	USER NAME = midyja	DESIGNED ~	REVISED	-T. RAMMACHER 06-05-96		l .	PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	c:\pw_work\pwidot\midyJa\dØ256471\DistSt	J.dgn			-T. RAMMACHER 11-04-97	STATE OF ILLINOIS		FOR TRAFFIC STAGING	846	4 B-2-BR	WILL	26 25
- 1		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		was production of the second s		TC-16	CONTRACT	T NO. 60L50
- 1		PLOT DATE = 2/18/2011	DATE - 09-18-94	REVISED -	SED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINO		ID PROJECT	



### NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN () WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD INFORMATION SIGN					SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\midyja\d0256471\DistSt	ldgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS						4 B-2-BR	WILL	26	26
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFUNIVATION SIGN				TC-22	CONTRAC	T NO. 60	L50	
	PLOT DATE = 2/18/2011	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD D	IST. NO. 1   ILLINOIS FE	D. AID PROJECT		