03-08-13 LETTING ITEM 059

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS STRUCTURES (NORTH)
SECTION: 2012-025BR
STRUCTURAL STEEL REPAIR
COOK & LAKE COUNTIES

C-91-415-12

FOR LOCATION MAPS SEE SHEETS 4 TO 6

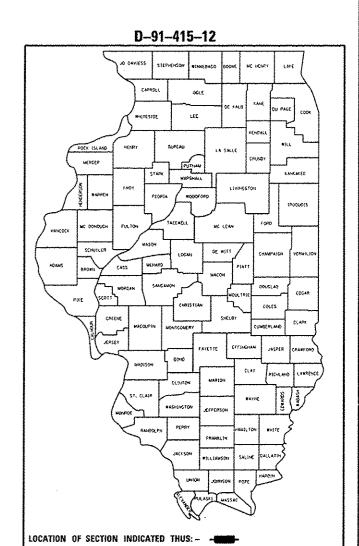
0 160' 200' 300' -- 1" = 180' 0 50' 190' 1" = 50' 0 50' 190' -- 1" = 30' 0 50' 180' -- 1" = 30' 0 50' 100' -- 1" = 20'

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

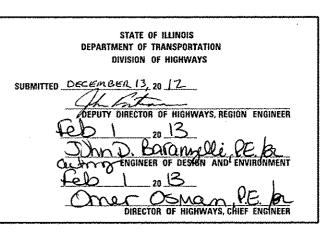
PROJECT ENGINEER: J. ALAIN MIDY (847) 221–3057
PROJECT MANAGER: ISSAM RAYYAN (847) 705–4178

CONTRACT NO. 60T66



2012-025BR

COOK & LAKE Z 1



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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STATE STANDARDS

STANDARD NO. DESCRIPTION SHEET NO. DESCRIPTION OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE 701101-03 COVER SHEET INDEX OF SHEETS, STANDARDS AND GENERAL NOTES 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 3 SUMMARY OF QUANTITIES APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY 701400-06 4-6 LOCATION MAP 701401-07 LANE CLOSURE, FREEWAY/EXPRESSWAY BRIDGE REPAIR DETAILS (SN 016-0545) 7-8 9-10 BRIDGE REPAIR DETAILS (SN 049-0050) LANE CLOSURE, MULTILANE, AT ENTRANCE RAMP, FOR SPEEDS > 45 MPH 701411-08 11-15 BRIDGE REPAIR DETAILS (SN 049-0096) LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH 701421-05 16-17 TRAFFIC CONTROL STAGING FREEWAY ENTRANCE AND EXIT RAMP (TC-08) 18 701901-02 TRAFFIC CONTROL DEVICES

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 AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITIES OF WILMETTE, PARK CITY AND LIBERTYVILLE TOWNSHIP.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

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

THE ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEER AT (847)438-2306A 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 RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

WHEN REMOVING THE EXISTING DAMAGED BEAM, THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO ENSURE THAT THE DECK AND THE BEAM ARE PROPERLY SUPPORTED DURING THE ENTIRE REMOVAL OPERATION SO AS TO PROTECT THE TRAFFIC AND PAVEMENT ON AND BELOW THE BRIDGE. THE CONTRACTOR SHALL SUBMIT THE REMOVAL SEQUENCE AND PROCEDURE TO THE ENGINEER FOR APPROVAL PRIOR TO REMOVAL OF THE EXISTING DECK, DAMAGED BEAM OR CARRIER BEAM. THIS COST IS INCLUDED IN THE COST OF "STRUCTURAL STEEL REMOVAL".

SLIPFORMING OF PARAPETS IS NOT ALLOWED.

TO STA.

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	\$MODELNAME\$	PLOT DATE = 12/20/2012	DATE -	REVISEO -	L
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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)

ARTERIAL ROAD INFORMATION SIGN (TC-22)

DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		INDE	X OF SHEETS	
SCALEs	SHEET	OF	SHEETS STA.	

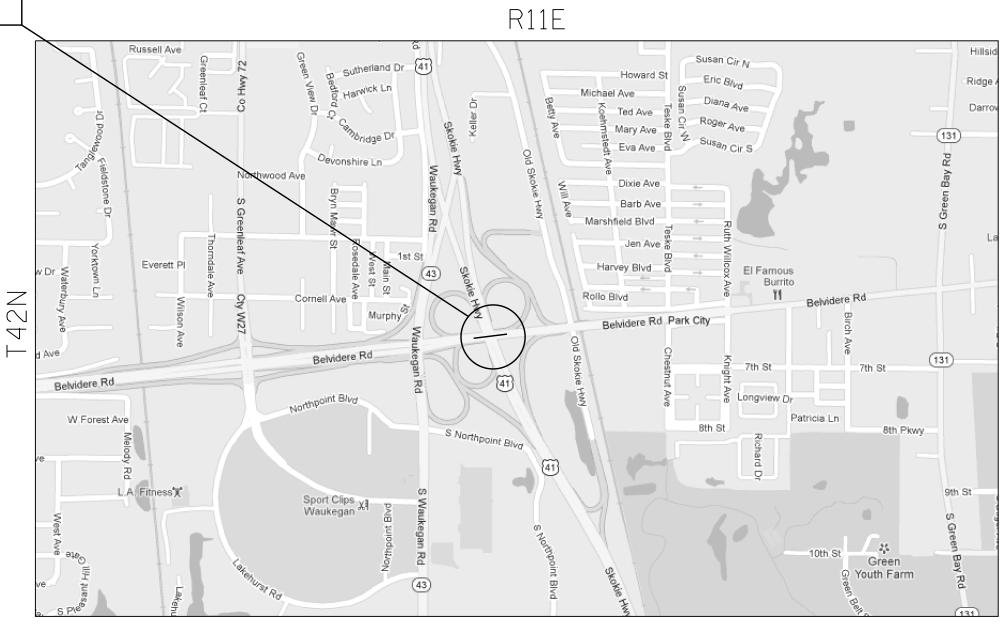
COUNTY TOTAL SHEETS NO. SECTION 2012-025BR VAR. CONTRACT NO. 60766

	SUMMARY OF QUANTITIES	**************************************	URBAN 1001.	1		CONSTRUCTI	ON TYPE	CODE		<u></u>	SUMMARY OF QUANTITIES		URBAN 100%			ONSTRUCT	ION TYPE	CODE	
CODE NO	ITEM	UNIT	STATE TOTAL QUANTITIES	LA	014 AKE	0014 C00K				CODE NO	ITEM	UNIT	STATE TOTAL OUANTITIES	L	014 AKE	0014 COOK			
50102400	CONCRETE REMOVAL	CU YD	10, 5	SH 049-0096	SN 049-0050	SH 016-0545				x7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	SN 049-009	SH 049-0050	SN 016-0545			
-																			
50157300	PROTECTIVE SHIELD	SO YD	35	35						x7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS	S) L SUM	1			1			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.5	10.5				<u>.</u>		×7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III. 4"	FOOT	700	700					
······································																			
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	7770	7770						Z0001903	STRUCTURAL STEEL REMOVAL	POUND	7620	7620					
50500505	STUD SHEAR CONNECTORS	EACH	180	180						Z0001905	STRUCTURAL STEEL REPAIR	POUND	590		330	260			
					The second secon														
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2540	2540						Z0003600	BEAM STRAIGHTENING	L SUM	1		0.5	0.5			
E0000570	MEGHANICAL CRI ICEDE	FACO	40					***		70077700	TEMPODADY CHODING AND CRIDDING		1	1					
50800530	MECHANICAL SPLICERS	EACH	40	40						20013300	TEMPORARY SHORING AND CRIBBING	L SUM		<u> </u>		-			
64300430	IMPACT ATTENUATORS (NON-REDIRECTIVE). TEST LEVEL 2	EACH	1	1															
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	2	1														
67100100	MOBILIZATION	L SUM	1	0, 34	0. 33	0. 33													
70100310	TRAFFIC CONTROL AND PROTECTION. STANDARD 701421	L SUM	1		. 1														
	27770770 (0172)																		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	137.5	137.5															
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	300	300			- Company	***************************************											
			-																
78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	90	90															
78200530	BARRIER WALL MARKERS, TYPE C	ЕАСН	8	8															
78300100	PAVEMENT MARKING REMOVAL	SO FT	50	50				······································		17	* Specialty Hems	***************************************				,			
ile name : Woulsonpulsonopu	terconskir (% d) 32697 O-D141512 str. coner digo. DRA	SIGNED - AWN - CCKED -		REVISED REVISED REVISED			п		TATE OF I		TION SUMMARY	OF QUANTI	TIES		RTE. VAR.			COUNTY COOK & LAKE	

LOCATION 1: IL 120 OVER US 41
SN 049-0050
PARK CITY

TRAFFIC DATA

<u>IL 120</u> ADT (2011) = 1600 POSTED SPEED LIMIT = 55 MPH



WARREN TOWNSHIP

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -				LOCATI	ION MAP		RTÉ.	SECTION	COUNTY IOTAL	SHEE!
c:\pw_work\pwidot\pyrzanowskirb\d0326970	ND141512-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						VAR.	2012-025BR	COOK & LAKE 21	4
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LOCATION 1						CONTRACT NO. 60	0166	
\$MODELNAME\$	PLOT DATE = 12/20/2012	DATE -	REVISED -		SCALE:	SHEET 1	OF 3	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

LOCATION 2: IL 137 OVER IL 137 WB OFF RAMP TO PETERSON RD SN 049-0096

TRAFFIC DATA

POSTED SPEED LIMIT = 45 MPH

PLOT DATE = 12/20/2012

CHECKED -

DATE

REVISED

REVISED

ADT (2007) = 7500

<u>IL 137</u>

R10E R11E

ger Rd 2

Liberty Prairie
Nature Preserve ComEd Substation T44N Peterson Rd. (137) Buckley Rd (137) Field 11B 🕏 Fairhill Rd Poko Loko Early Learning Center Kildare Ave Filed 8B 🦈 ter Rd Cty A34 Co Hwy 69

LIBERTYVILLE TOWNSHIP

LOCATION 2

TO STA.

OF 3 SHEETS STA.

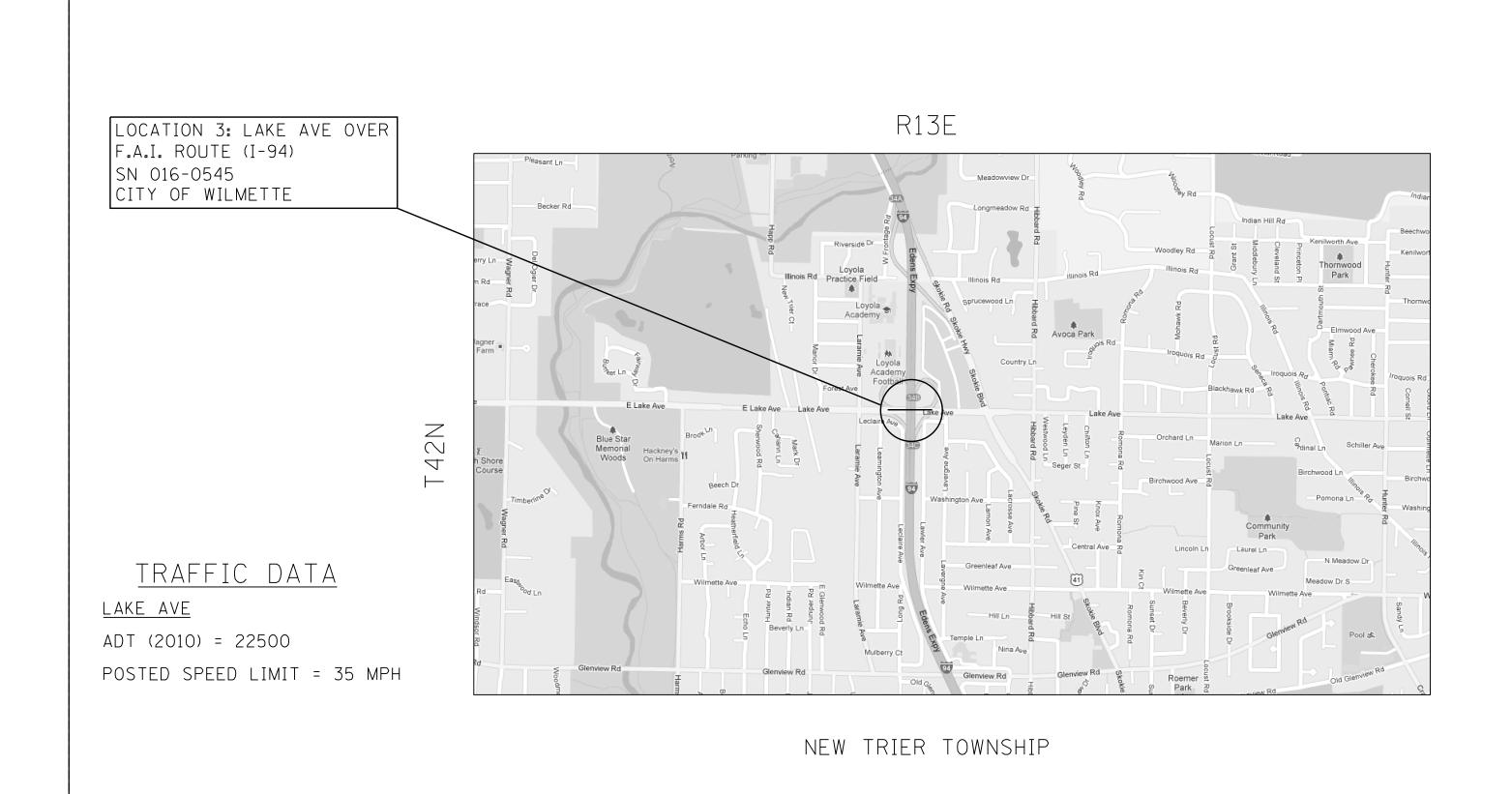
SHEET 2

COUNTY | TOTAL | SHEET | NO. |

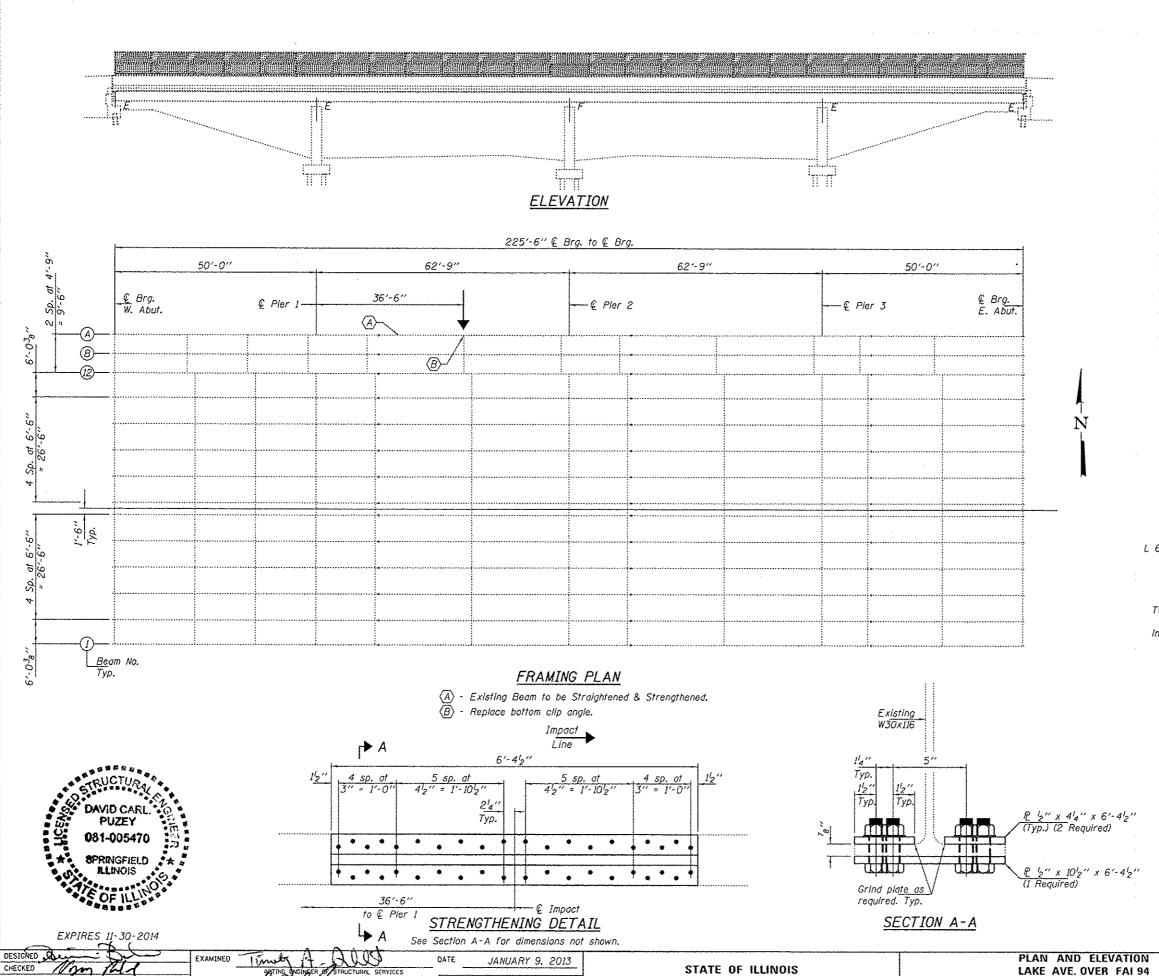
VARIOUS | 21 | 5 |

CONTRACT | NO. | 60166 DESIGNED -REVISED SECTION LOCATION MAP STATE OF ILLINOIS REVISED 0141512-sht-cover.dgn DRAWN 2012-025BR

DEPARTMENT OF TRANSPORTATION



FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -			LOCATION MAP		1		SECTION	COUNTY	TOTAL	SHEET		
c:\pw_work\pwidot\pyrzanowskirb\d0326970	\D141512-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				VAR.	2012-025BR	COOK & LAK	KE 21	6			
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LOCATION 3			CONTRACT NO. 60T6			0166				
\$MODELNAME\$	PLOT DATE = 12/20/2012	DATE -	REVISED -		SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		



DEPARTMENT OF TRANSPORTATION

REVISED

REVISED

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts 78", open holes 15 16 ", unless otherwise noted.

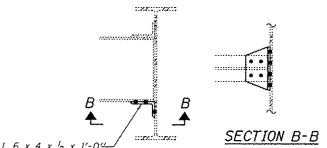
After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the fleid shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.



CLIP ANGLE REPLACEMENT DETAIL

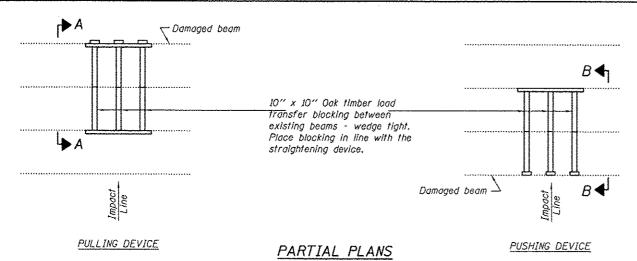
Diaphragm connection holes shall be 15,6 "\$\phi\$ for 34"\$\phi\$ bolts. Two hardened washers shall be required at diaphragm connections. Use holes in beam and diaphragm as template for drilling holes in anale.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	260
Beam Straightening	L.S.	0.5

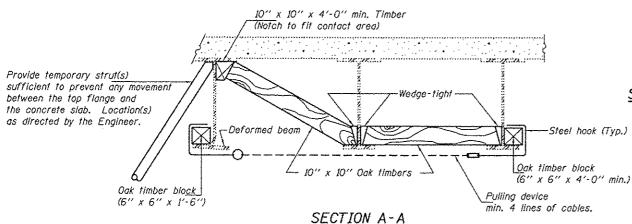
LAKE AVE. OVER FAI 94 SN 016-0545 SHEET NO. 1 OF 2 SHEETS

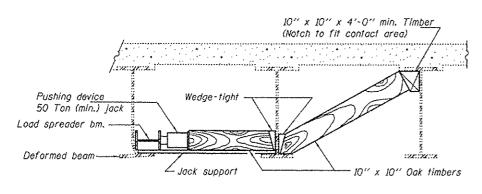
TOTAL SHEE SHEETS NO. SECTION COUNTY COOK 2012-025BR 21 7 CONTRACT NO. 60T66 ILLINOIS FED. ALD PROJECT



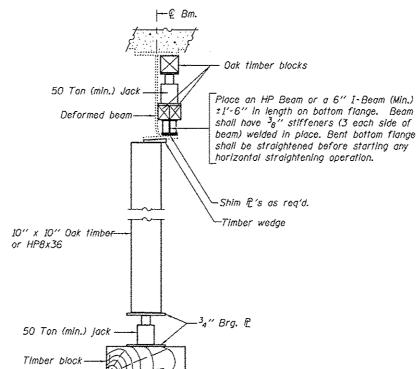
Straightening force shall be maintained on all load

traightening force shall be maintained on all load transfer blocking during beam straightening.



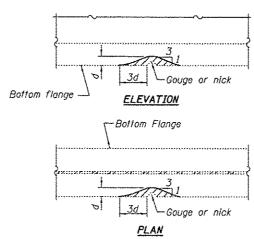


SECTION B-B



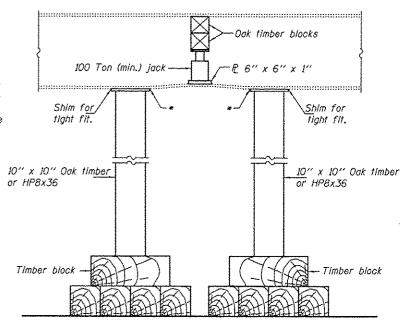
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately '4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



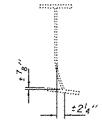
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Note:

Braces and Jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking East)
(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 4'-0''.

	REP-	<u>1 1-14-2005</u>
- 1	DESTONED	

DESIGNED DAB

CHECKEO VP

DRAWN Daliva

CHECKEO DAB VP

EXAMINED

IMPLIFY

ACTING ENGINEER OF SHUDGHALL

ACTING ENGINEER OF BRIDGES AND S

ACTING ENGINEER OF BRIDGES AND S

Timet A A LL DATE JANUARY 9, 2013

TING ENGINEER OF STRUCTURES

OR ENGINEER OF BRICES AND STRUCTURES

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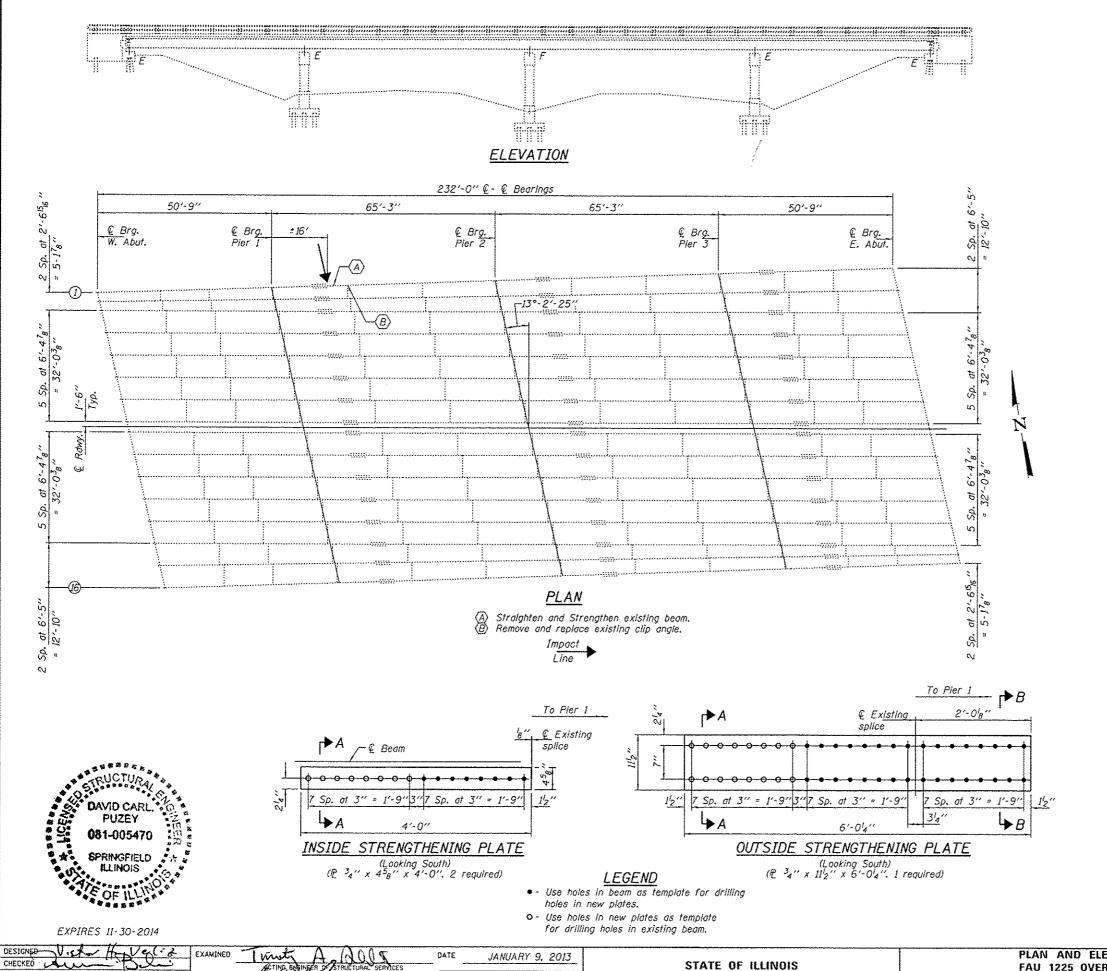
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS SN 016-0545 SHEET NO. 2 OF 2 SHEETS



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GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts 78", open holes 15 16 16, unless otherwise noted.

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.

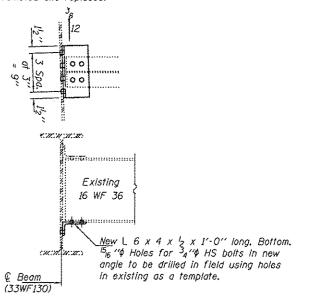
Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

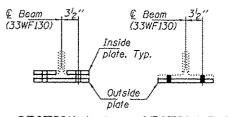
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300. Type 1. Cost included with Structural Steel Repair.

Traffic to be removed from area over Beam 1 while splice is removed and replaced.



CLIP ANGLE REPLACEMENT

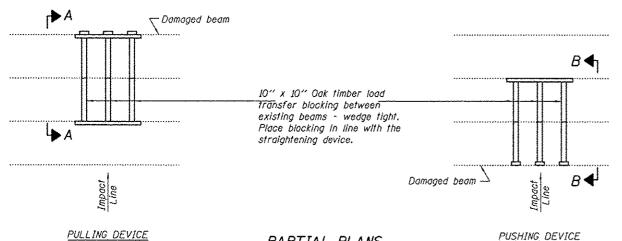


SECTION A-A SECTION B-B

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	330
Beam Straightening	L.S.	0.5

PLAN AND ELEVATION F.A.U. RYE. 1225 TOTAL SHEET SHEETS NO. SECTION COUNTY STATE OF ILLINOIS FAU 1225 OVER US 41 LAKE 21 9 2012-0258R **DEPARTMENT OF TRANSPORTATION** SN 049-0050 CONTRACT NO. 60T66 SHEET NO. 1 OF 2 SHEETS

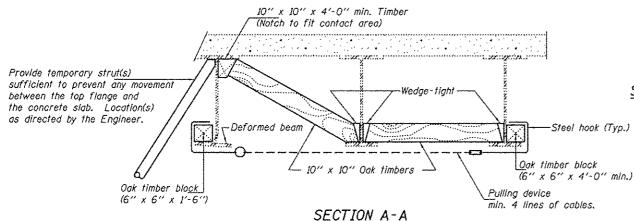


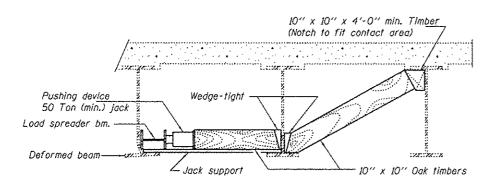
PULLING DEVICE

PARTIAL PLANS

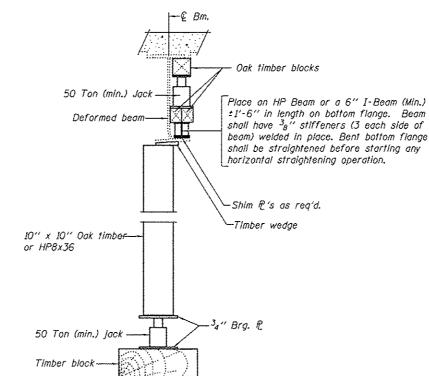
SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



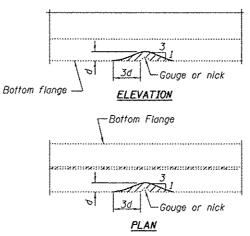


SECTION B-B



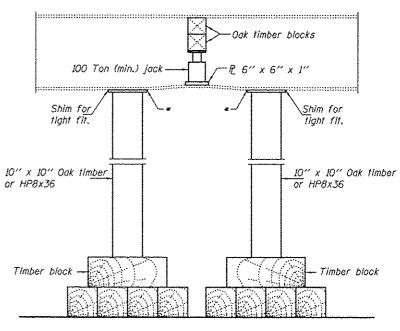
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately $^{1}4^{\prime\prime}$ deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



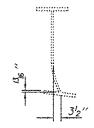
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Note:

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION TO BE STRAIGHTENED

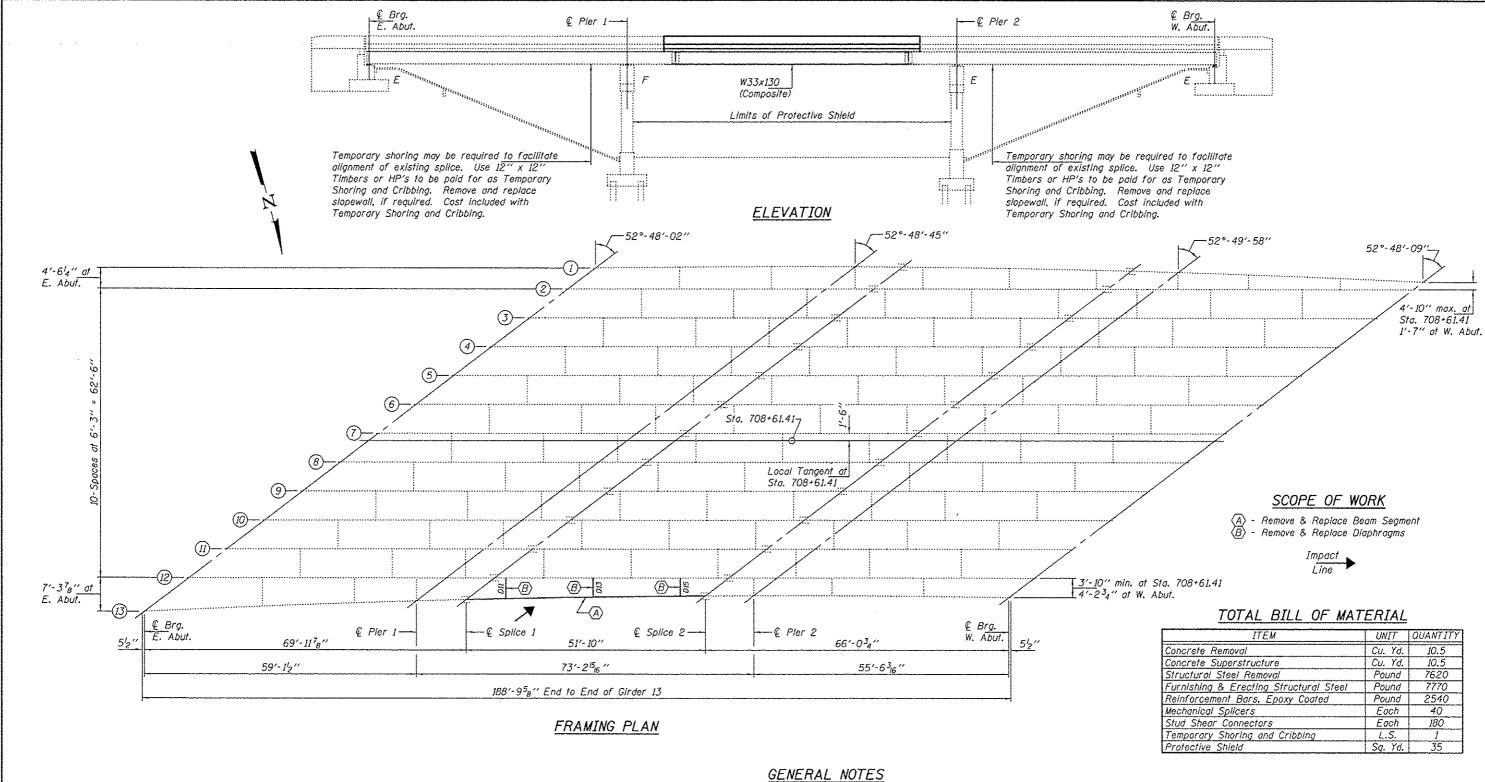
(Looking West)

(Approximate max, deflections) Deflected length of beam to be straightened is approximately 30'.

REP-1 1-14-2005				
DESIGNED VHV	EXAMINED	Ti A A A OAi	DATE	JANUARY 9, 2013
CHECKED DAB		ACTING ENGINEER OF STRUCTURAL SERVICES		0/110/117 J, 2013
DRAWN baliva	PASSED	at ting endinger or strategistal services	REVISED	
CHECKED VHV DAB		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	······································

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS	F.A.U. RYE.	SECTION .	COUNTY	TOTAL SHEETS	SHEET NO.
SN 049-0050	1225	2012-0258R	LAKE	21	10
			CONTRACT	NO. 6	0T66
SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. A	D PROJECT		





All structural steel shall conform to AASHTO Classification M-270 Gr. 36.

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

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.

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 Furnishing and Erecting Structural Steel.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coal for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5 YR 3/4. See Special Provision "Cleaning and Painting New Metal Structures".

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Diaphragm connection hales shall be 5 ₁₆ " ϕ for 3 ₄" ϕ bolts. Two hardened washers shall be required at diaphragm connections.

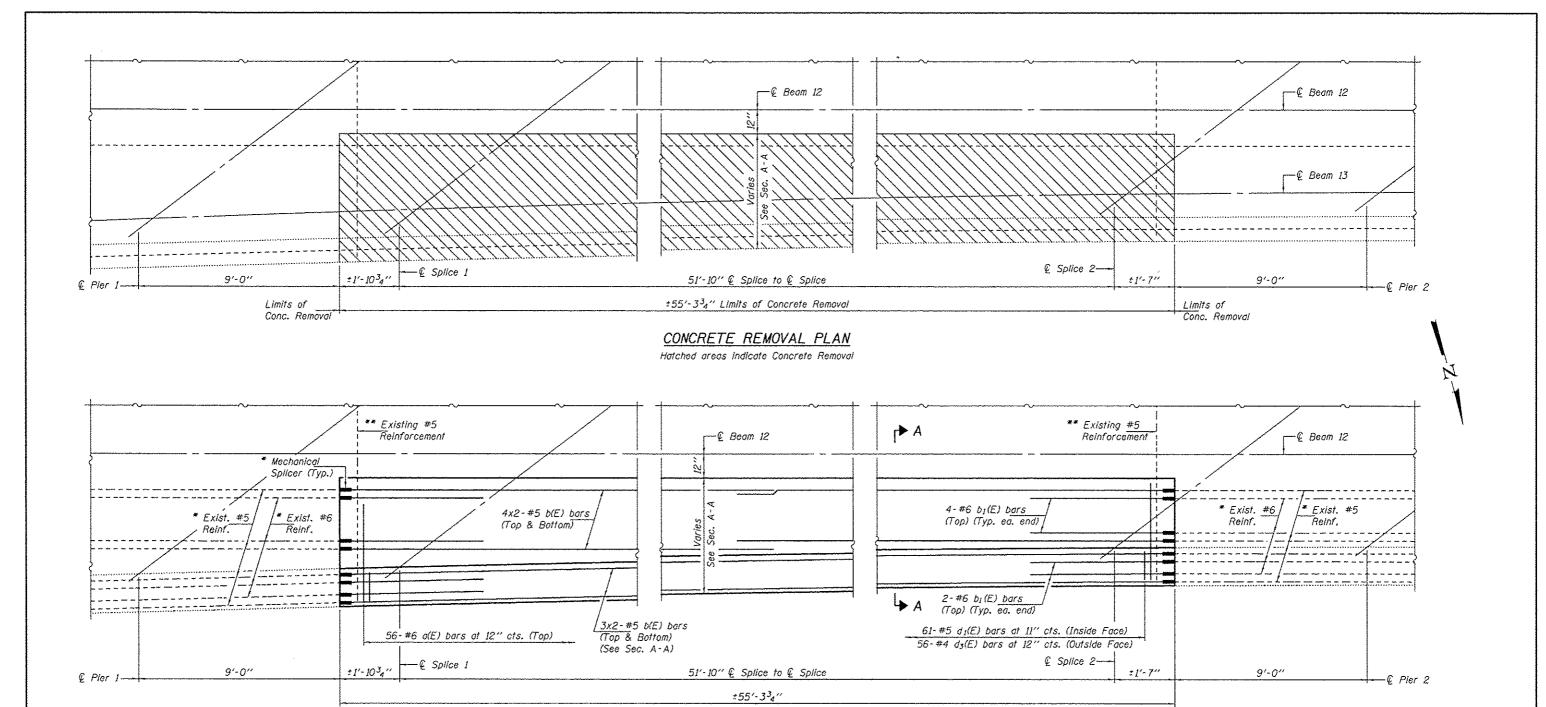
Fasteners shall be high strength bolts. Bolts ⁷g''ø, open holes ¹⁵l6''ø, unless otherwise noted.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Expires: November 30, 2012

DESIGNED - STAR VP EXAMINED TO STANDER OF BRIDGE OF STANDERS OF STANDERS OF BRIDGE OF

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CONCRETE REPLACEMENT PLAN

(Beam 13 not shown for clarity)
For Parapet Reinforcement Details
and Section A-A see sheet 3 of 5.

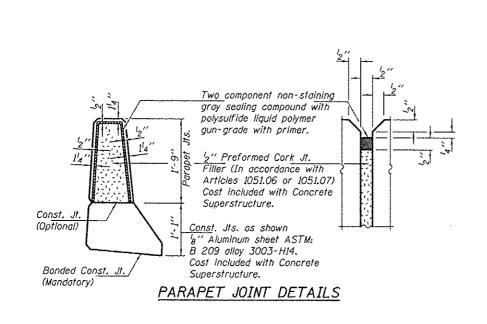
* Existing reinforcement to extend 6" min. into concrete removal grea to facilitate installation of Mechanical Splicers.

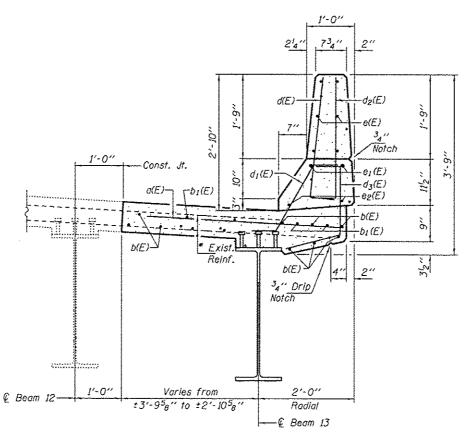
** Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

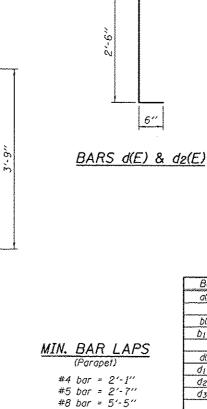
MIN. BAR LAPS #5 Bar = 2'-7"

DESIGNED - SMR CHECKED - VP DRAWN - Kylo M. Steffen PASSED EXAMINED WOLL A ALL Y ACTING ENGINEER OF STRUCTURAL SERVICES CAN LINEARY 9, 2013 ACTING ENGINEER OF STRUCTURAL SERVICES	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAILS SN 049-0096	F.A.P. SECTION 352 2012-0258R	COUNTY TOTAL SHEET NO. LAKE 21 12 CONTRACT NO COTEG
CHECKED - SMR VP ACTING ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 2 OF 5 SHEETS	ILLINOIS FED. 1	ID PROJECT

INSIDE ELEVATION OF PARAPET (Looking North)







6"

Ваг	No.	Size	Length	Shape
a(E)	56	#6	4'-0"	
b(E)	28	#5	28'-9"	
b _I (E)	12	#6	6'-0''	
d(E)	61	#5	3'-0"	
$d_I(E)$	61	#5	2'-7"	\
dz(E)	56	#4	3'-0"	
d3(E)	56	#4	3'-1"	Ĺ
e(E)	12	#4	28'-7"	
01(E)	4	#8	30'-2"	
62(E)	4	#5	28'-9"	
Concrete			Cu. Yd.	10.5
Concrete	Superstru	icture	Cu. Yd.	10.5
Mechanica	d Splicers	5	Each	40
Reinforce Epoxy Co	ment Bar ated	Pound	2540	

BAR d1(E)

BILL OF MATERIAL

BAR d3(E)

Bars indicated thus 3 x 2-#4 etc. indicates 3 lines of bars with 2 lengths per line.

SECTION A-A (Looking West) Match existing cross slope.

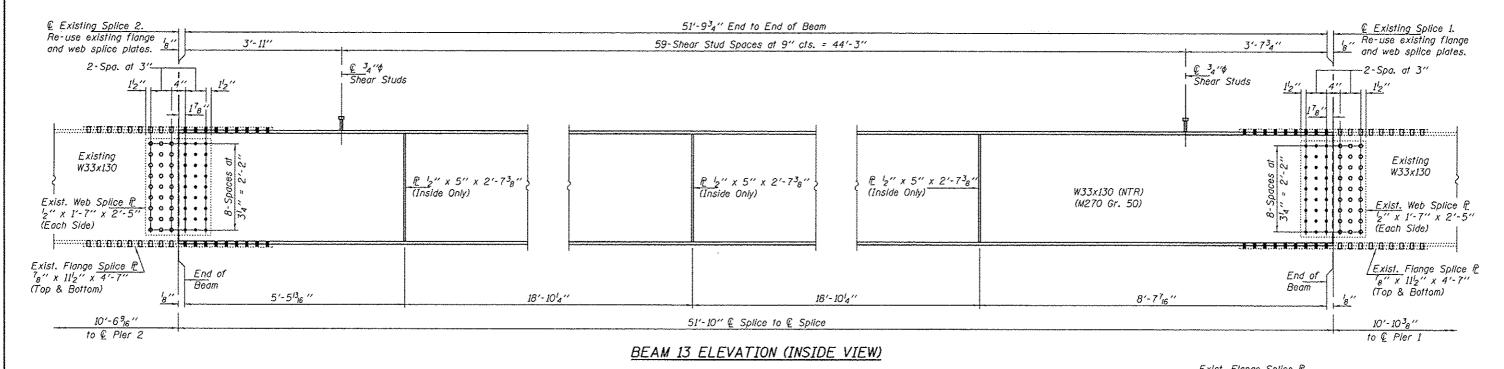
* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

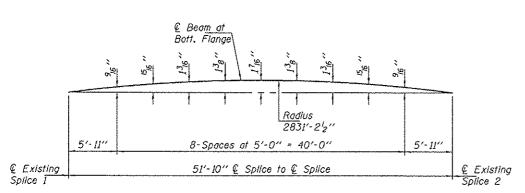
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CHECKED	-	٧P			ACTING ENGINEER OF STRUCTURAL SERVICES		
ORAWN	-	Kylo M. S	teffen	PASSED	a Carl Troper		
CHECKED	-	SMR	YP		ACTING ENGINEER OF BRIDGES AND STRUCTURES		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	EP/				
	SN	0	49_	009)6
SHEET	NO.	3	OF	5	SHEETS

COUNTY TOTAL SHEET NO.
LAKE 21 13 F.A.P. RTE. SECTION 2012-025BR 352 CONTRACT NO. 60T66 ILLINOIS FED. AID PROJECT





BEAM 13 HORIZONTAL CURVING DIAGRAM

The cost of all field drilling required for installation of the steel member is included with "Furnishing and Erecting Structural Steel."

Removal of existing beam to be paid for as "Structural Steel Removal"

Use existing splice L's as template to field drill holes In new beam at existing splice locations.

New Beam & Clip L's to be paid for as "Furnishing and Erecting Structural Steel."

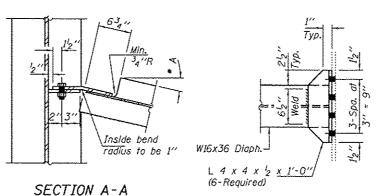
All Clip L's to be shop welded to diaphragms.



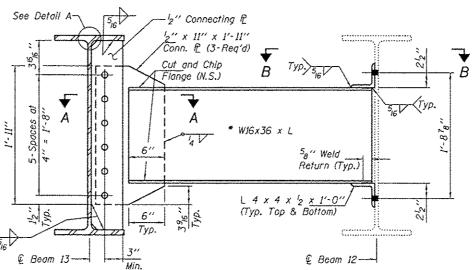


TABLE OF DIMENSIONS

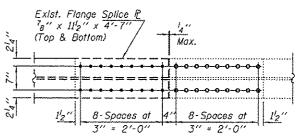
Diaph.	L	Α
DII	3'-11 ⁵ 8''	1°-15′-15′′
013	3'-7716"	0°-52′-22′′
D15	3'-434"	0°-29'-29"



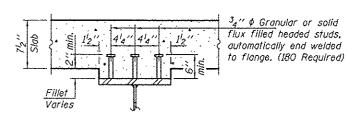
SECTION B-B



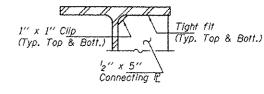
DIAPHRAGM DII, DI3, & DI5



TYPICAL SPLICE DETAIL

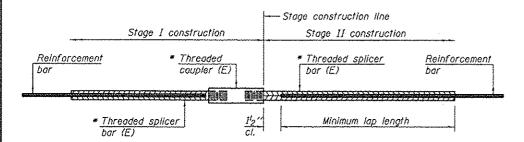


SHEAR STUD DETAILS



DETAIL A

DESIGNED - SMR CHECKED - VP DRAWN - Kylo M. Stoffen PASSED EXAMINED INDIA ACTING ENGINEER OF STRUCTURAL SERVICES DRAWN - Kylo M. Stoffen PASSED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM REPLACEMENT DETAILS SN 049-0096	F.A.P. SECTION COUNTY SHEETS NO.
CHECKED - SMR VP ACTING ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 4 OF 5 SHEETS	ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

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

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

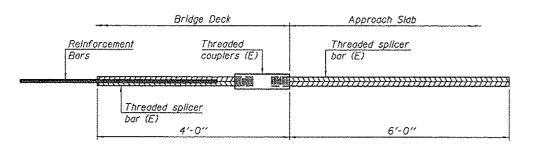
Table 5: Epoxy bar, Class C

Table 6: Epoxy bar. Top bar top. Class C

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

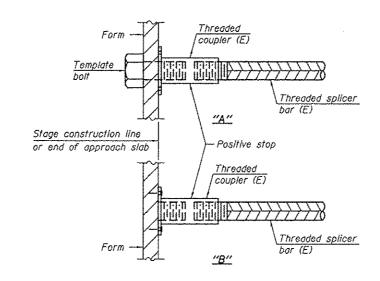
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
			-



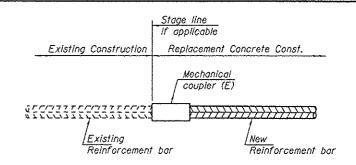
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



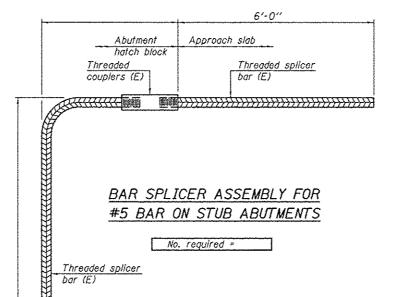
INSTALLATION AND SETTING METHODS

"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
Deck	#5	28
Deck	#6	12
		



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.

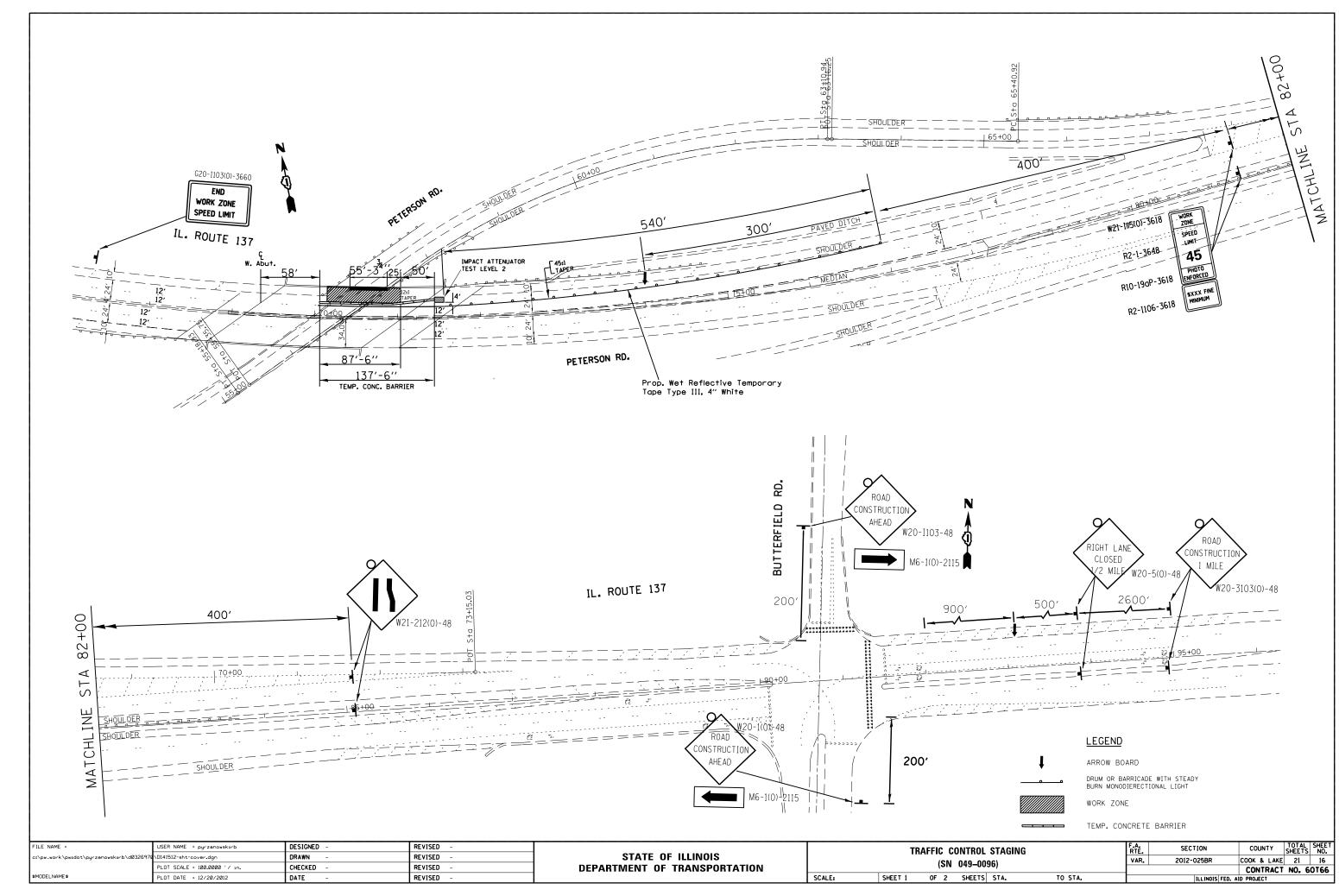
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

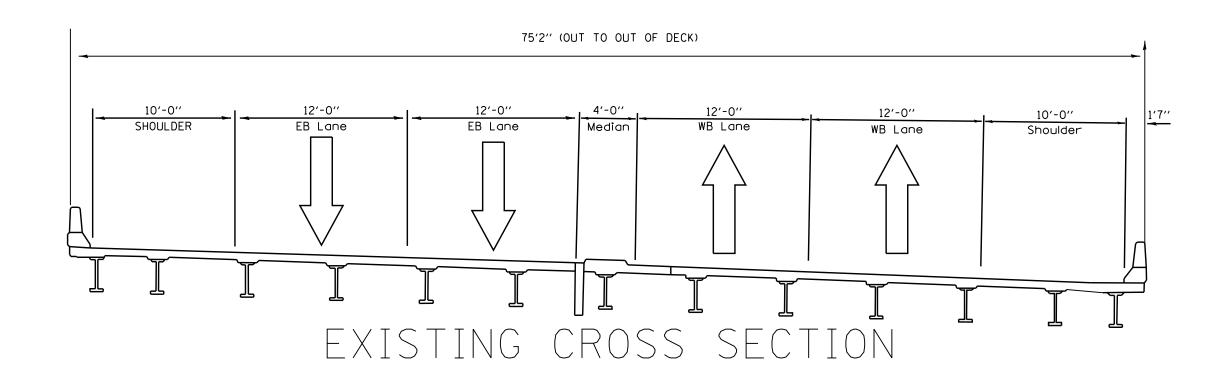
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

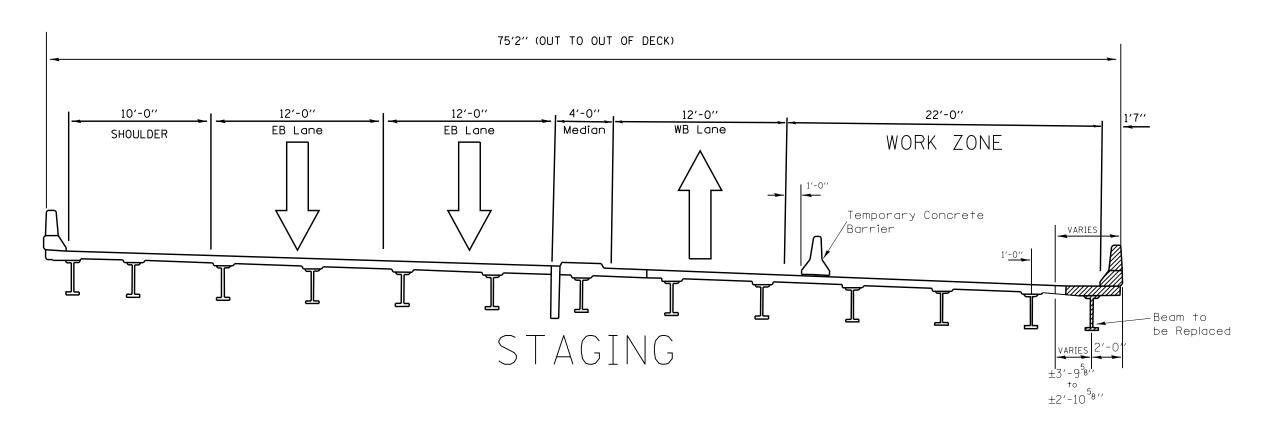
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DRAWN	-	Kyle M. Steffen	PASSED	A Carl Pomer				l
CHECKED	-	SMR VP		ACTING ENGINEER OF BRIDGES AND STRUCTURES				ŀ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 049-0096	352	2012-025BR	LAKE	21	15
017 013 0020					0T66
SHEET NO. 5 OF 5 SHEETS		TLI INOIS FED. 41	O PROJECT		



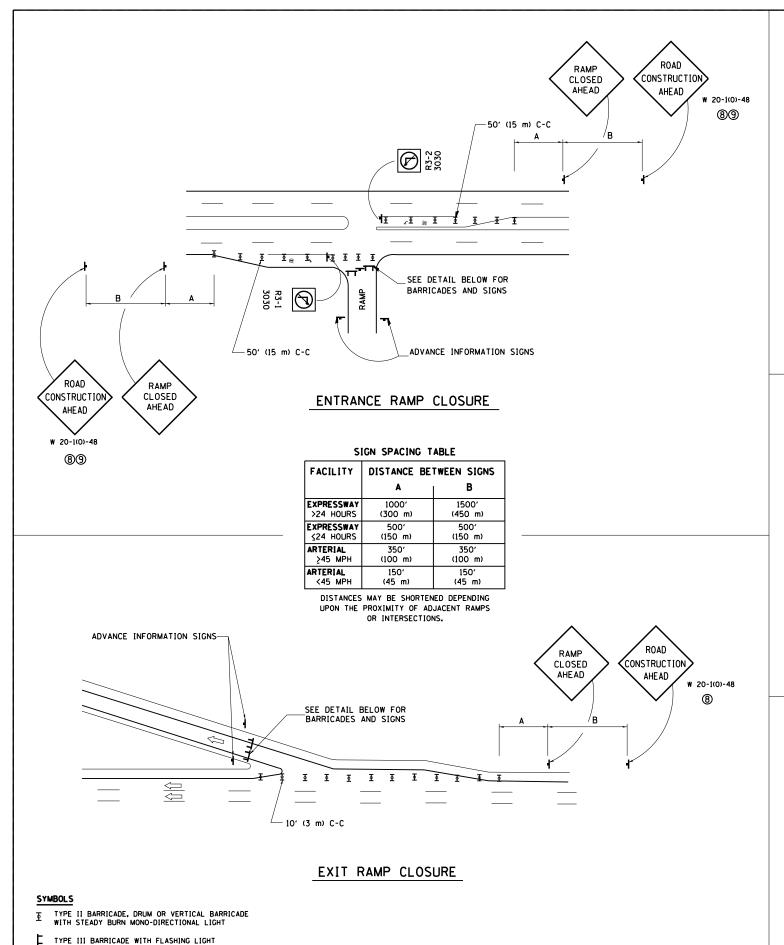


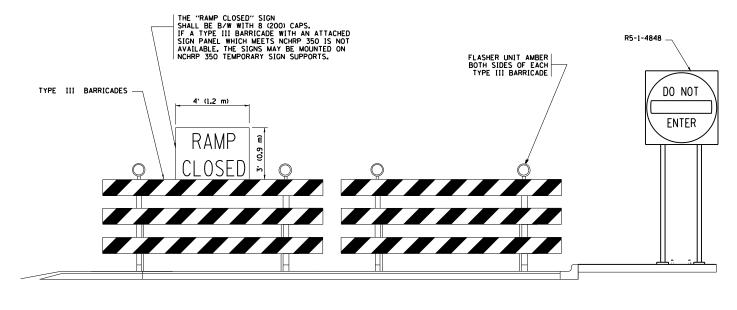


COUNTY SHEETS NO.

COOK & LAKE 21 17

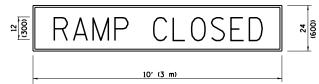
CONTRACT NO. 60166 DESIGNED -REVISED USER NAME = pyrzanowskirb SECTION TRAFFIC CONTROL STAGING STATE OF ILLINOIS D141512-sht-cover.dgn DRAWN REVISED 2012-025BR VAR. (SN 049-0096) CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 12/20/2012 DATE SCALE: SHEET 2 OF 2 SHEETS STA. TO STA. REVISED





DETAIL FOR REQUIRED BARRICADES & SIGNS

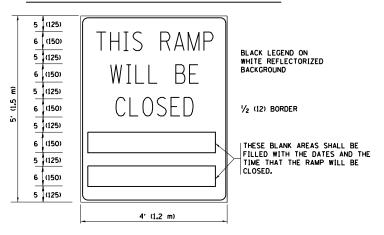




BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF I WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

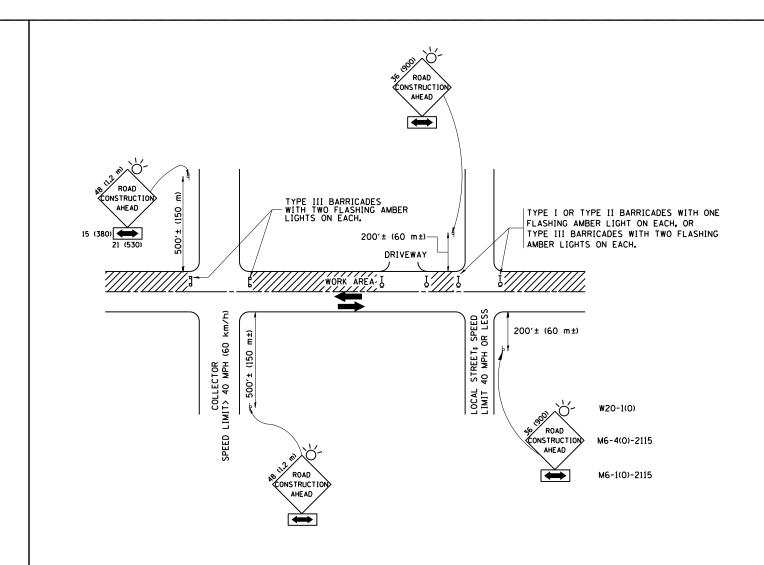
- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- (THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR 24 HOURS, ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR 24
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- (9) ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - DWS	REVISED - DWS/JAF 12-02		FREEWAY ENTRANCE AND EXIT RAMP	F.A.	SECTION	COUNTY TOTAL SHEET	
c:\pw_work\pwidot\pyrzanowskirb\d0326970	\DistStd.dgn	DRAWN -	REVISED - JAF 02-06	STATE OF ILLINOIS		VAR.	2012-025BR	COOK & LAKE 21 18	1
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - SPB 01-07	DEPARTMENT OF TRANSPORTATION	CLOSURE DETAILS			CONTRACT NO. 60T66	,1
	PLOT DATE = 12/20/2012	DATE - 02-83	REVISED - SPB 12-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED BOAD	0107 10 1 11 11010 550 1		1

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

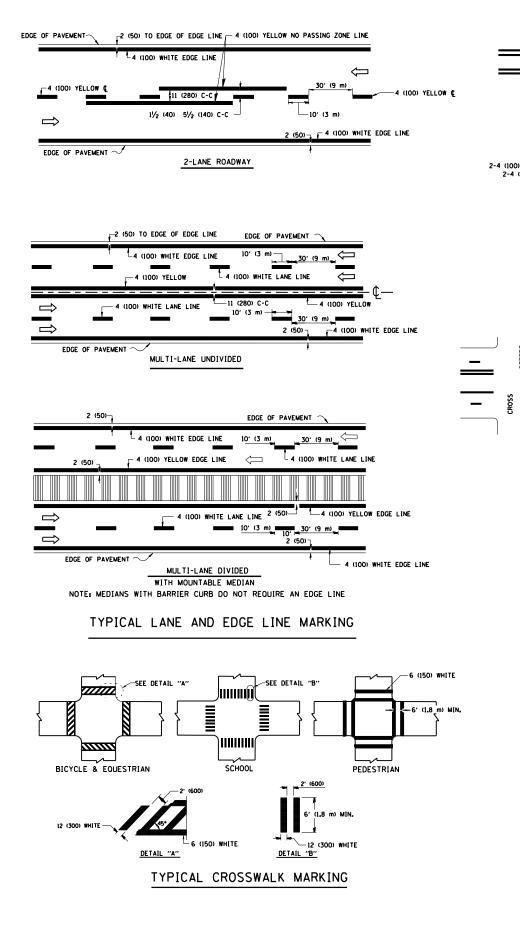
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	- A. HOUSEH 10-15-96
	PLOT DATE = 12/20/2012	DATE - 06-89	REVISED	-T. RAMMACHER 01-06-00

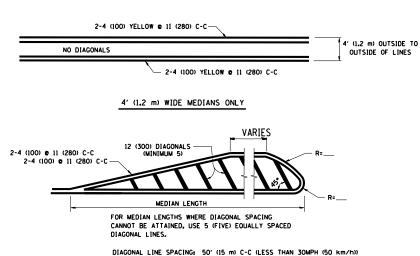
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SHEET NO. 1 OF 1 SHEETS STA.

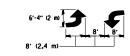




DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

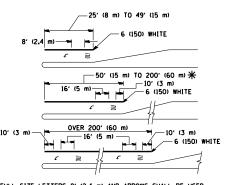
MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (5½ (140) C-C) 2-4 (100) YELLOW e 11 (280) C-C 4 (100) YELLOW LINES (5½ (140) C-C)

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

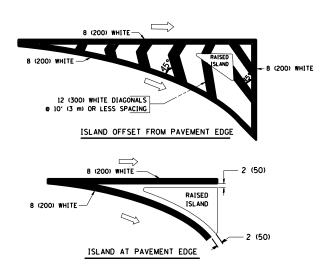


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* 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



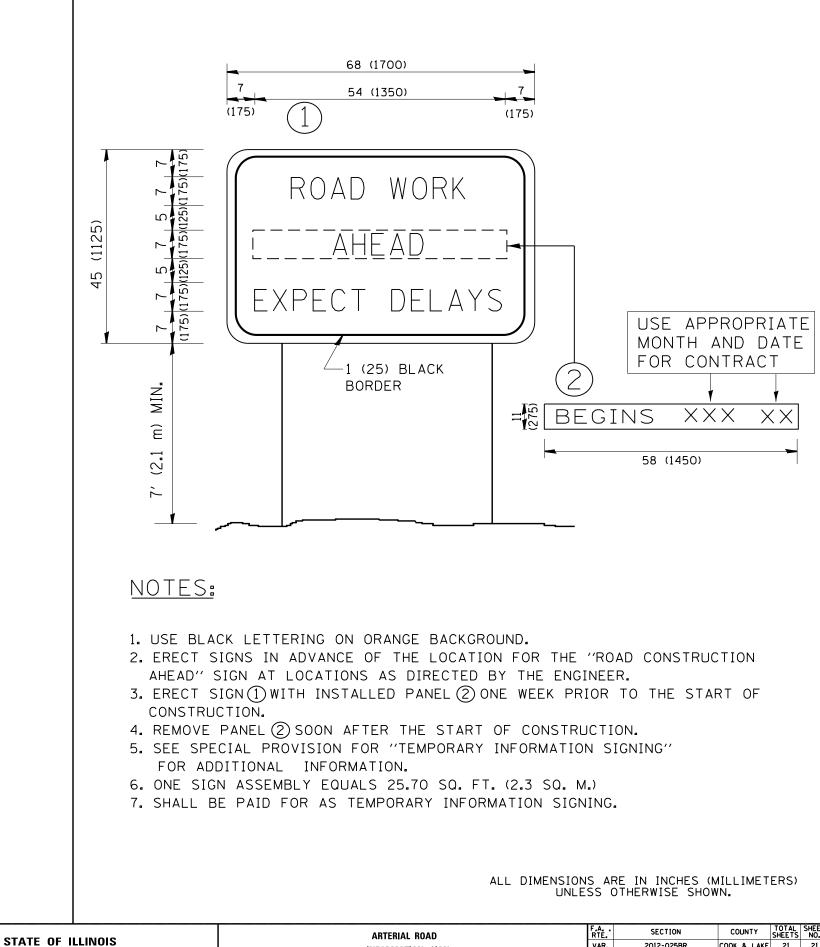
TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	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 0 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	YELLOW	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. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (I.8 m) APART 2' (GOD) APART 2' (GOD) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, 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	DIACONALS: 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 (0VER 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 SQ. FT. (0.33 m ²) EACH "X":54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 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.

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	FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ONE	F.A	SECTION	COUNTY	TOTAL SHEETS	SHEET
	c:\pw_work\pwidot\pyrzanowskirb\d0326970	\DistStd.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS			VAR.	2012-025BR	COOK & LAKE		20
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS			TC-13	CONTRACT	T NO.	60T66
		PLOT DATE = 12/20/2012	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FE			



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USER NAME = pyrzanowskirb

PLOT DATE = 12/20/2012

LOT SCALE = 100.0000 '/ in.

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REVISED - R. MIRS 09-15-97

REVISED - R. MIRS 12-11-97

REVISED -T. RAMMACHER 02-02-99

REVISED - C. JUCIUS 01-31-07

DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN
SHEET NO. 1 OF 1 SHEETS STA.

TO STA.

SCALE: NONE