1-17-14 LETTING ITEM 015

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 LOCATIONS
SECTION 2013-044BR
BRIDGE REPAIRS (STEEL BEAM REPAIRS)
COOK AND DUPAGE COUNTY

C-91-406-13

FOR LOACTION MAPS
SEE PAGES 5-9.

AND ELMHURST AND THE VILLAGE OF JUSTICE.

IMPROVEMENTS LOCATED IN THE CITIES OF CHICAGO

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

C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056 PROJECT MANAGER: ISSAM RYYAN (847) 705-4178

CONTRACT NO. 60W94

A. SECTION COUNTY TOTAL SHEETS NO.

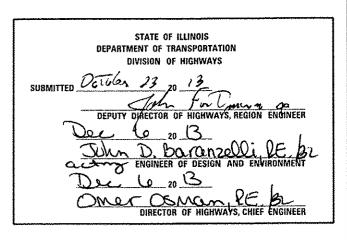
VAR. 2013-0448R COOK & DUPAGE 36 1

| ILLINOIS | CONTRACT NO. 60W94

X35 41=36

D-91-406-13





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

	INDEX OF SHEETS		
SHEET NO.	DESCRIPTION	STANDARD NO.	
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2.	INDEX OF SHEETS	643001-02	SAN
3.	SUMMARY OF QUANTITIES	701101-04	OFF- EDGE
4.	SCHEDULE OF QUANTITIES	701301-04	LANE
59.	LOCATION MAPS	701400-07	APP
1011.	BRIDGE REPAIR DETAILS, LOCATION 1 (SN 016-0168)	701401-08	LAN
1214.	BRIDGE REPAIR DETAILS, LOCATION 2	701423-07	LAN <u>&gt;</u> 45
14. 1	(SN 016-0209)	701426-06	LAN FOR
1517.	TRAFFIC CONTROL STAGING (SN 016-0209)	701428	TRA
1821.	BRIDGE REPAIR DETAILS. LOCATION 3 (SN 016-2050)	701446-05	TWO
2228.	BRIDGE REPAIR DETAILS, LOCATION 4	701501-06	LANE
	(SN 016-2068)	701601-09	URB/ NON1
2930.	BRIDGE REPAIR DETAILS, LOCATION 5&6 (SN 022-0101 & SN 022-0102)	701606-09	URB MEDI
31.	FREEWAY ENTRANCE AND EXIT RAMP (TC-08)	701801-05	SIDE
31A.	TRAFFIC CONTROL DETAILS FOR FREEWAY	701901-03	TRAF
2	SINGLE AND MULTI-LANE WEAVE (TC-09)	704001-07	TEM
32.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)		_
33.	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	THE CONTRACTO	OR SHA
34.	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	NO DEBRIS WIL (or THE RAILR 107.12) OF THE FOR SEPARATE	L ENDA OAD) BI STAND
35.	ARTERIAL ROAD INFORMATION SIGN (TC-22)	FOR THE APPROCESSION	OPRIATI

#### STATE STANDARDS

STANDARD NO.	DESCRIPTION
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY/EXPRESSWAY
701423-07	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS 2 45 MPH TO 55 MPH
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\geq$ 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-05	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701501-06	LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

#### **GENERAL NOTES (BRIDGE)**

THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY (or THE RAILROAD) BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 (or 107.12) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

ALL VERTICAL CLEARANCE SIGNAGE, IF EXISTING, SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR TO THE START OF WORK ASSOCIATED WITH THIS CONTRACT.

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.

#### 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.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 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 CHICAGO AND ELMHURST AND THE VILLAGE OF JUSTICE.

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

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.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 (FOR ARTERIALS) AND (847)705-4155 (FOR EXPRESSWAYS) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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.

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.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

FOR LOCATION 4. THE CONTRACTOR SHALL COORDINATE WITH THE IDOT ELECTRIC MAINTENANCE CONTRACTOR PRIOR TO PERFORMING ANY WORK.

A BARRICADE OR DRUM WITH FLASHING LIGHTS SHALL BE PLACED ON THE SIDEWALK ON EITHER SIDE OF TEMPORARY SLAB SUPPORT SYSTEM. COST INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701801.

CALL IDOT EMC FOR CABLE LOCATES AT (773) 287-7600.

FOR LOCATION 1, SURVEILLANCE CONDUITS ARE ATTACHED TO THE AUGUSTA BLVD BRIDGE WEST ABUTMENT. CARE SHALL BE TAKEN NOT TO DAMAGE CONDUITS.

FOR LOCATION 3, HOMELAND SECURITY VIDEO AND FIBER INSTALLED IN THE HUBBARD ST CAVE, CARE SHALL BE TAKEN NOT TO DAMAGE CONDUITS.

FILE NAME 2	USER NAME : SEYMORECP	DESIGNED -	REVISED -				VARI	OUS ROL	ITES		F.A.	SECTION	COUNTY	TOTAL S	SHEET NO.
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100.1-CONSTRUCTION TYPE CODE CONSTRUCTION TYPE CODE 100% SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES STATE STATE TOTAL TOTAL OUANTITIES CODE NO ITEM UNIT QUANTITIES COOK ITEM UNIT DUPAGE CODE NO COOK DUPAGE 0014 0014 0014 0014 CONCRETE REMOVAL 1.1 ₹ 78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" FOOT 29 29 50102400 14 BARRIER WALL MARKERS, TYPE C EACH 78200530 211 211 CU YD 1.1 1. 1 78300100 PAVEMENT MARKING REMOVAL 50300255 CONCRETE SUPERSTRUCTURE FURNISHING AND ERECTING STRUCTURAL TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM 0.67 0.33 50500405 POUND 27630 27630 X7010216 STEEL TRAFFIC CONTROL AND PROTECTION IMPACT ATTENUATORS (NON-REDIRECTIVE). X7011015 L SUM 0.33 64300450 1 (EXPRESSWAYS) TEST LEVEL 3 WET REFLECTIVE TEMPORARY TAPE TYPE III. FOOT ENGINEER'S FIELD OFFICE, TYPE A 2 X7030030 839 839 67000400 CAL MO 6 REMOVE, STORE AND RE-ERECT SIGN PANEL EACH 1 X7200053 67100100 MOBILIZATION L SUM 0.75 0.25 (SPECIAL) REMOVAL ELECTRICAL CONNECTION TO SIGN TRAFFIC CONTROL AND PROTECTION. X8040150 EACH L SUM 1 STRUCTURE 70102620 STANDARD 701501 TRAFFIC CONTROL AND PROTECTION, 70102625 L SUM STANDARD 70/606 TRAFFIC CONTROL AND PROTECTION. POUND 25030 25030 Z0001903 STRUCTURAL STEEL REMOVAL 70102630 L SUM 1 1 STANDARD 701601 TRAFFIC CONTROL AND PROTECTION. 700 Z0001905 STRUCTURAL STEEL REPAIR POUND 700 70102640 L SUM STANDARD 701801 L SUM 0.75 0.25 70200100 NIGHTTIME WORK ZONE LIGHTING L SUM 0.8 0.2 Z0003600 BEAM STRAIGHTENING SO FT 839 SQ FT 231.3 179.9 51.4 839 TEMPORARY INFORMATION SIGNING 20030850 70301000 WORK ZONE PAVEMENT MARKING REMOVAL 162.5 162.5 TEMPORARY SLAB SUPPORT SYSTEM L SUM 70400100 TEMPORARY CONCRETE BARRIER 73304000 OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED FOOT 24 24 REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE EACH 73602000 1 MOUNTED 78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT 182 182 \* Specialty Hems Rev. COUNTY TOTAL SHEET NO. COOK & DUPAGE 35 3 F.A. . RTE. VAR. FILE NAME : DESIGNED REVISED STATE OF ILLINOIS 2013+044BR SUMMARY OF QUANTITIES DEPARTMENT OF TRANSPORTATION REVISED -CHECKED -CONTRACT NO. 60W94 PLOT SCALE = 100,0000 1/ In. SHEET NO. OF SHEETS STA. PLOT DATE + 10/30/2013 DATE REVISED

URBAN

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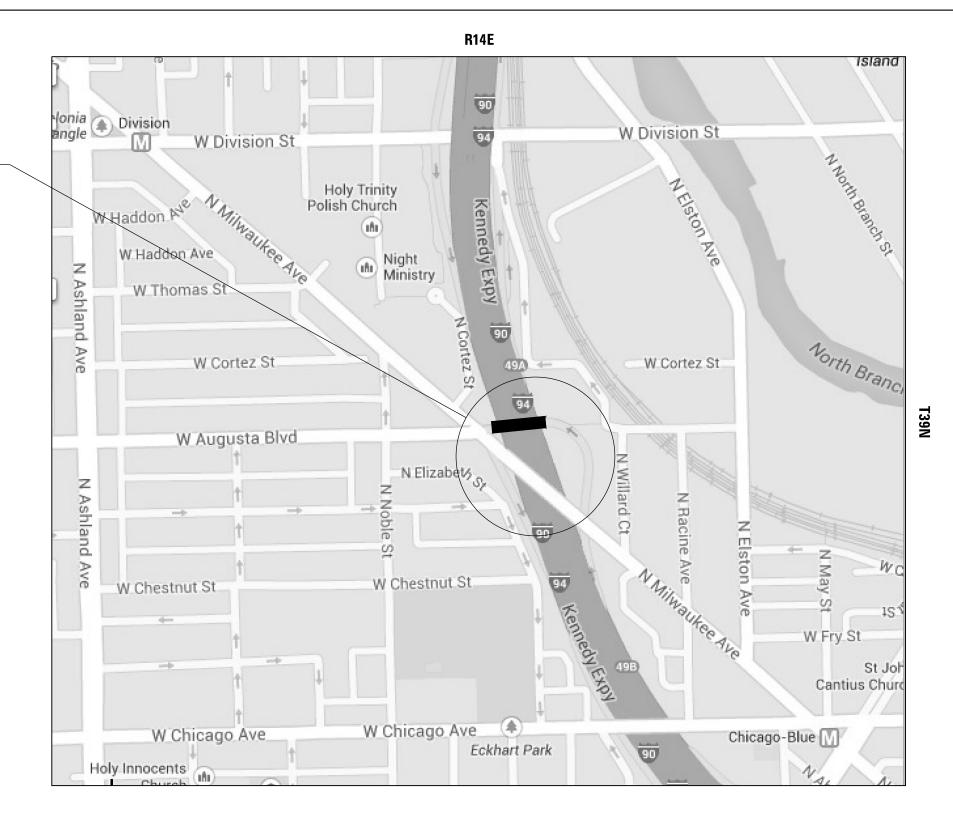
SCHEDULE OF QUANTITIES		COOK C	OUNTY		DUPAG	SE COU	NTY	SCHEDULE OF QUANTITIES		COOK (	COUNTY		DUPAG	GE COUNTY
LOCATION				I-290 @ KEELER AVE				LOCATION	I-90/94 @ AUGUSTA BLVD	IL 171 (ARCHER RD) OVER US 45				
LOCATION & STRUCTURE NO	1 016-0168	2 016-0209	3 016-2050	4 016-2068	5	6 022-0102		LOCATION & STRUCTURE NO	1 016-0168	2 016-0209	3 016-2050	4 016-2068	5	6
TEMPORARY INFORMATION SIGNING (SQ FT)		77.1	51.4	51.4	25.7	25.7		IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 2 (EACH)		1.0				
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) (L SUM)	0.33		0.34	0.33				TEMPORARY CONCRETE BARRIER (FOOT)		162.5				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 (L SUM)				1.0				BARRIER WALL MARKERS, TYPE C (EACH)		14.0				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 (L SUM)					0.5	0.5								
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 (L SUM)			1.0											
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 (L SUM)			0.5	0.5										
TRAFFIC CONTROL AND PROTECTION (SPECIAL) (L SUM)		1.0												
NIGHTTIME WORK ZONE LIGHTING (L SUM)	0.2	0.2	0.2	0.2	0.1	0.1								
REMOVE, STORE, AND RE-ERECT SIGN PANEL (SPECIAL) (EACH)				1.0										
REMOVAL ELECTRICAL CONNECTION TO SIGN STRUCTURE (EACH)				1.0										
OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED (FT)				24.0										
REMOVE OVERHEAD SIGN STRUCTURE- BRIDGE MOUNTED (EACH)				1.0										
BEAM STRAIGHTENING (L SUM)	0.25		0.25	0.25	0.125	0.125								
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LOCATION 1: I-90/94 (KENNEDY EXPRESSWAY) AT AUGUSTA BLVD SN 016-0168

#### TRAFFIC DATA:

AUGUSTA- SPEED LIMIT: 25 MPH 2002 ADT: 9600

I-90/94- SPEED LIMIT: 55 MPH 2012 ADT: 292500



# CITY OF CHICAGO WEST CHICAGO TOWNSHIP COOK COUNTY

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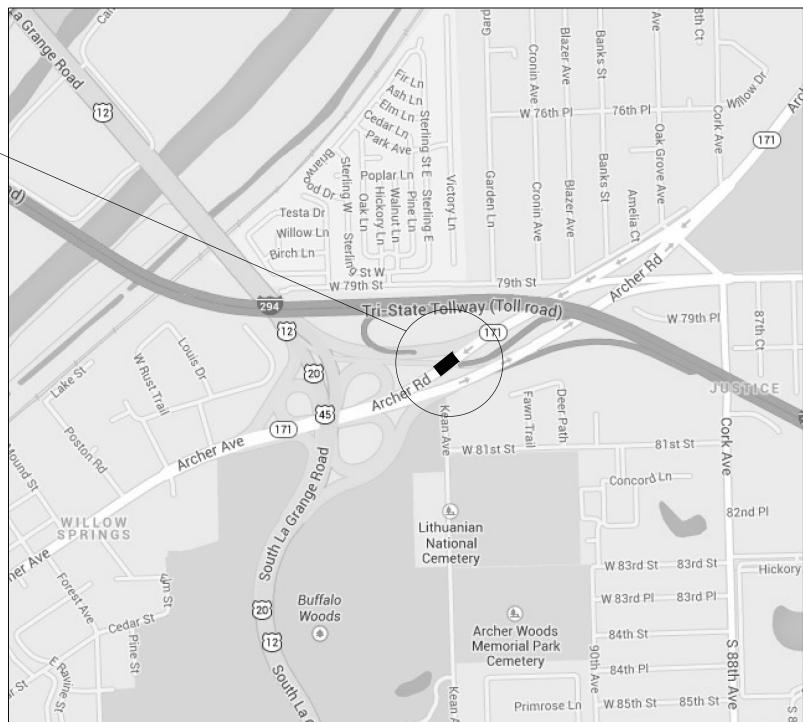
R12E

LOCATION 2: IL 171 (ARCHER ROAD), WB OVER US 45 (LA GRANGE ROAD) SB RAMP TO I-294 (TRI-STATE TOLLWAY) SN 016-0209

#### TRAFFIC DATA:

IL 171- SPEED LIMIT: 45 MPH 2012 ADT: 7350

US 45- SPEED LIMIT: 45 MPH 2006 ADT: 18500



VILLAGE OF JUSTICE LYONS TOWNSHIP COOK COUNTY

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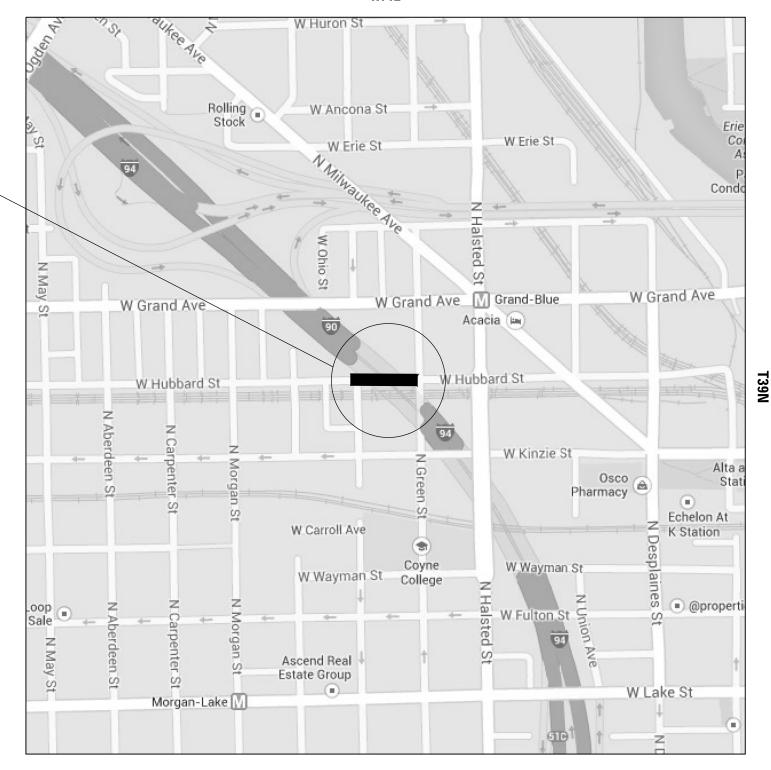
#### R14E

LOCATION 3: I-90/94 (KENNEDY EXPRESSWAY) AT HUBBARD STREET SN 016-2050

#### TRAFFIC DATA:

HUBBARD ST- SPEED LIMIT: 45 MPH 1997 ADT: 5000

I-90/94- SPEED LIMIT: 45 MPH 2012 ADT: 263000



# CITY OF CHICAGO WEST CHICAGO TOWNSHIP COOK COUNTY

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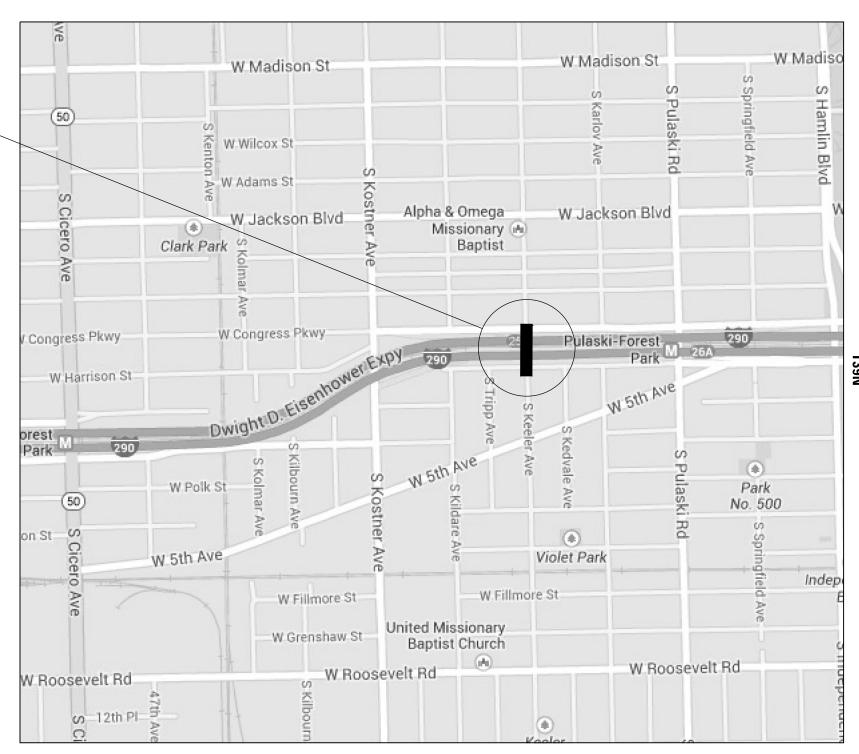


**LOCATION 4: I–290 (EISENHOWER EXPRESSWAY) AT KEELER AVENUE** SN 016-2068

#### TRAFFIC DATA:

KEELER AVE- SPEED LIMIT: 45 MPH 1997 ADT: 5000

I-290- SPEED LIMIT: 55 MPH 2012 ADT: 210600



#### CITY OF CHICAGO **WEST CHICAGO TOWNSHIP COOK COUNTY**

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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			LU	CATION 4				CONTRAC		60W94
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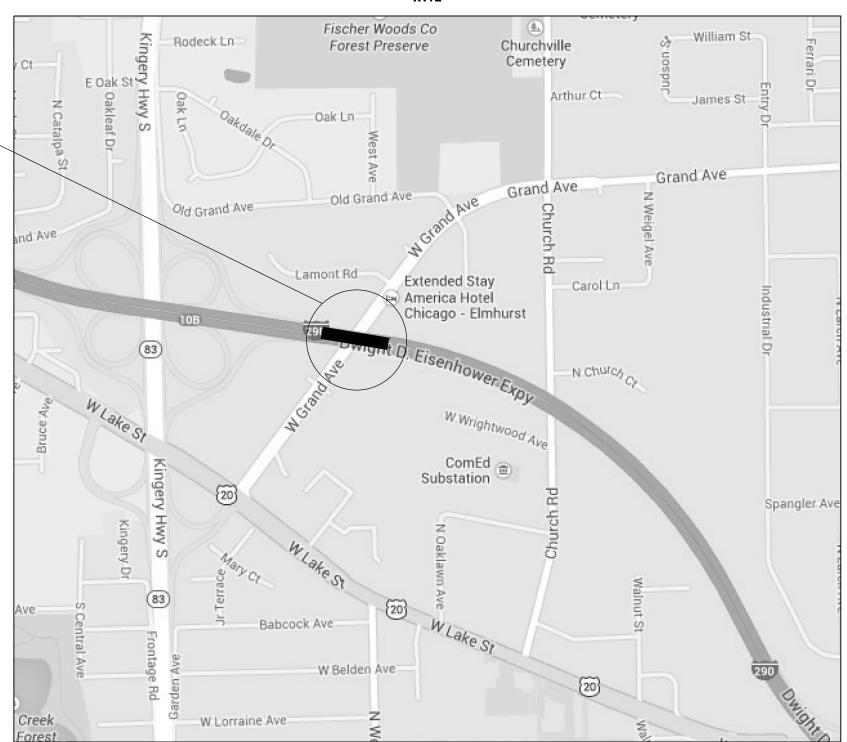
**T40N** 

LOCATION 5&6: I-290 (EISENHOWER EXPRESSWAY)
AT GRAND AVENUE
SN 022-0101 & SN 022-0102

#### TRAFFIC DATA:

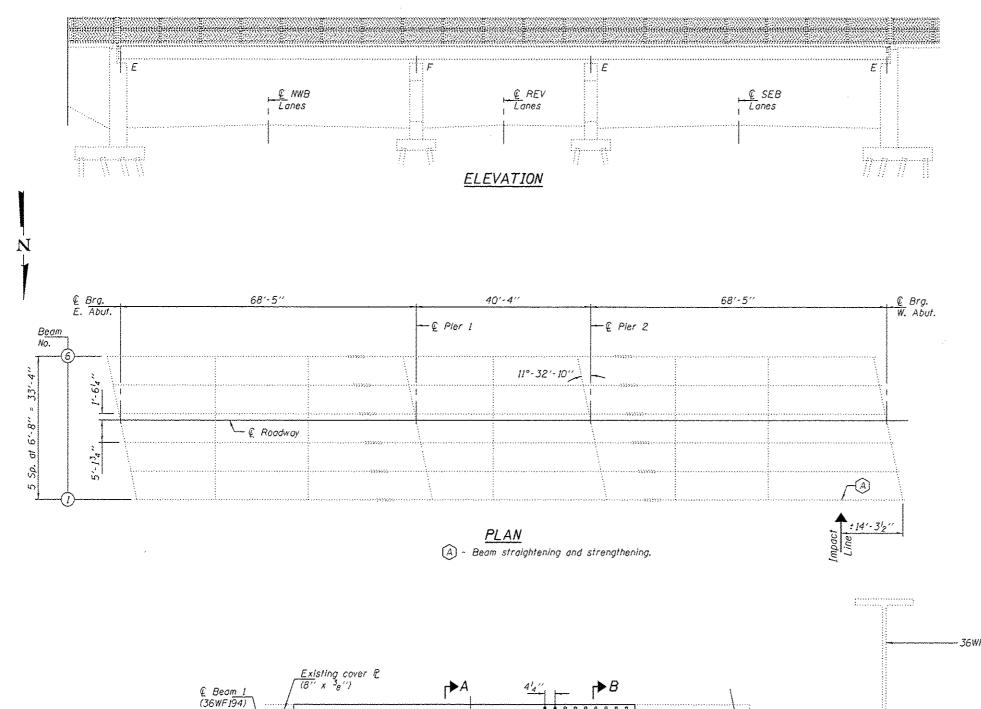
I-290- SPEED LIMIT: 55 MPH 2012 ADT: 122500

GRANDE AVE.- SPEED LIMIT: 45 MPH 2012 ADT: 25000



#### CITY OF ELMHURST ADDISON TOWNSHIP DUPAGE COUNTY

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Default	PLOT DATE = 10/30/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHE	ETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		



#### GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts  $^78''\Phi$ , open holes  $^{15}\!\!\!/_6''\Phi$ , unless otherwise noted.

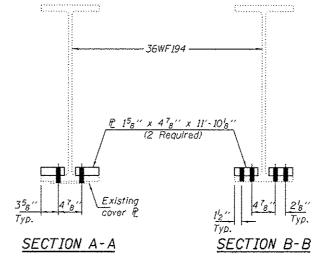
After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam.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

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.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "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,



#### TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Beam Straightening	L.S.	0.25
Structural Steel Repair	Pound	700

DESIGNED ATTOMOTION OF THE CHECKED CAPE TO SME DRAWN BOILD CHECKED (1/4) SME

DAVID CARL

PUZEY

081-005470

SPRINGFIELD &

ILLINOIS

PASSED ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE NOVEMBER 15, 2013

REVISED

REVISED

4 Sp. at

€ Repair -

4 Sp. at

16" = 2'-0

BEAM STRENGTHENING

16 Sp. at 3"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

€ Brg.

W. Abut.

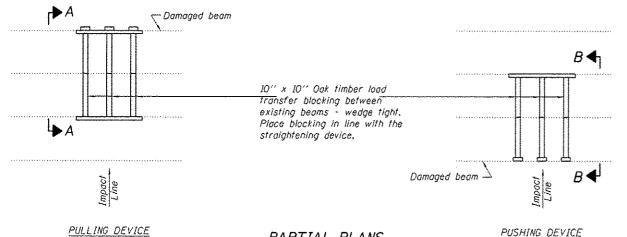
**₽**B

15 Alt. sp. at

28" = 2'-778

14'-35'

PLAN AND ELEVATION
AUGUSTA BOULEVARD OVER FAI 90/94
SN 016-0168
SHEET NO. 1 OF 2 SHEETS

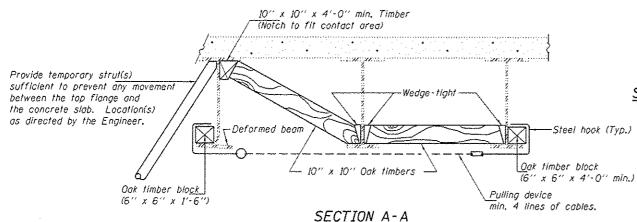


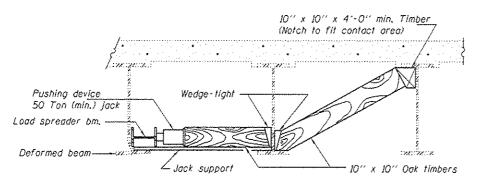
PULLING DEVICE

#### PARTIAL PLANS

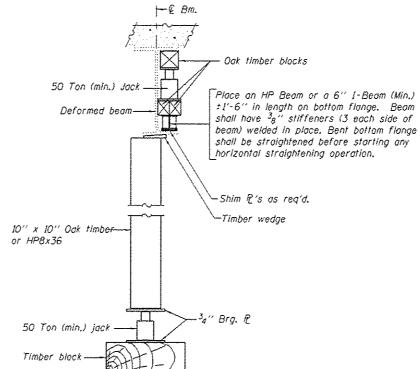
#### SUGGESTED BEAM STRAIGHTENING METHODS

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



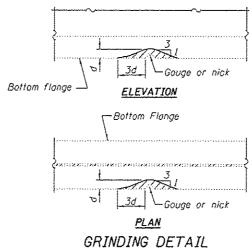


SECTION B-B



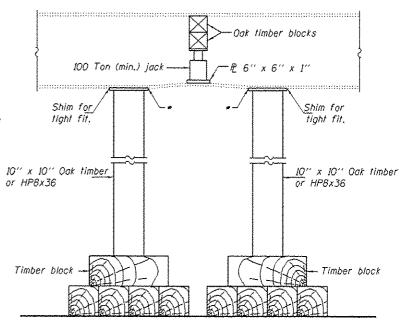
#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



#### 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 \( \frac{1}{4} \) 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.

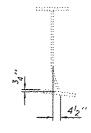


#### SUGGESTED VERTICAL STRAIGHTENING DETAIL (To correct localized vertical flange deformations.)

\* Edge of plate shall line up with

edge of deformation.

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 24'.

R	E	p.	- 1	<u> -</u>	14 -	2005	

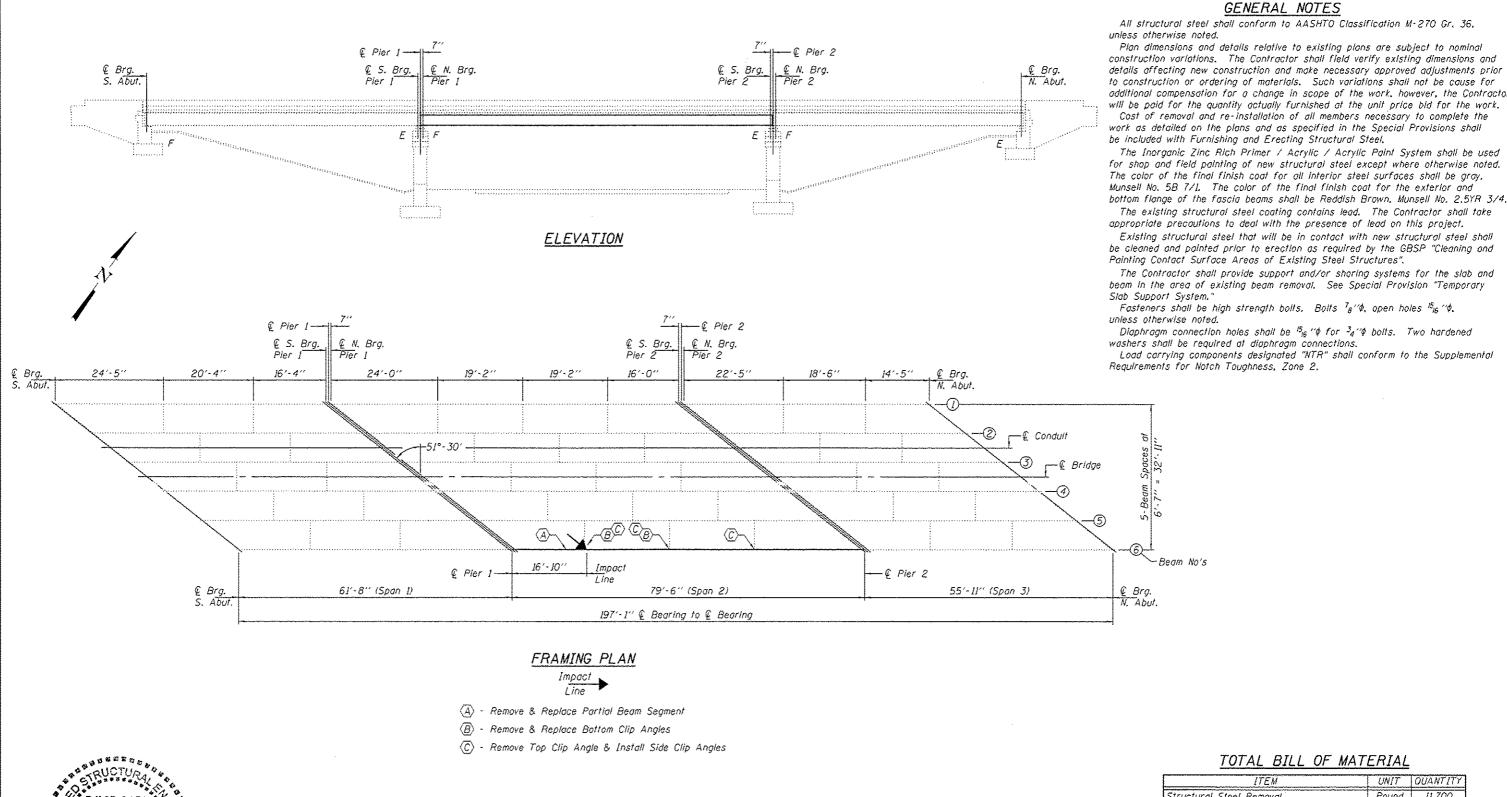
DESIGNED	GGE	EXAMINED	Tant A A na	DATE	NOVEMBER 15, 2013
CHECKED	SMR		ACTING ENGINEER OF STRUCTURAL SERVICES		
DRAWN	baliva	PASSED	A Carl Traver	REVIS	SED
CHECKED	GGE SMR		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVIS	SED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REPA	lR	DETAILS
SN	01	6-0168

SHEET NO. 2 OF 2 SHEETS

F.A. RTE. VAR COUNTY 2013-044BR COOK 35 11 CONTRACT NO. 60W94



ITEM	UNIT	OUANTITY
Structural Steel Removal	Pound	11,700
Furnishing & Erecting Structural Steel	Pound	13.700
Temporary Slab Support System	L.S.	0.33
		1

DESIGNED - November 30. 2014

DESIGNED - November 30. 2014

CHECKED - Law - Kyle M. Stoffen

CHECKED - LAC - TLC

PUZEY
081-005470
SPRINGFIELD
ILLINOIS

PASSED ACTING ENGINEER OF BRUCES AND STRUCTURES

ATE - NOVEMBER 15 2013

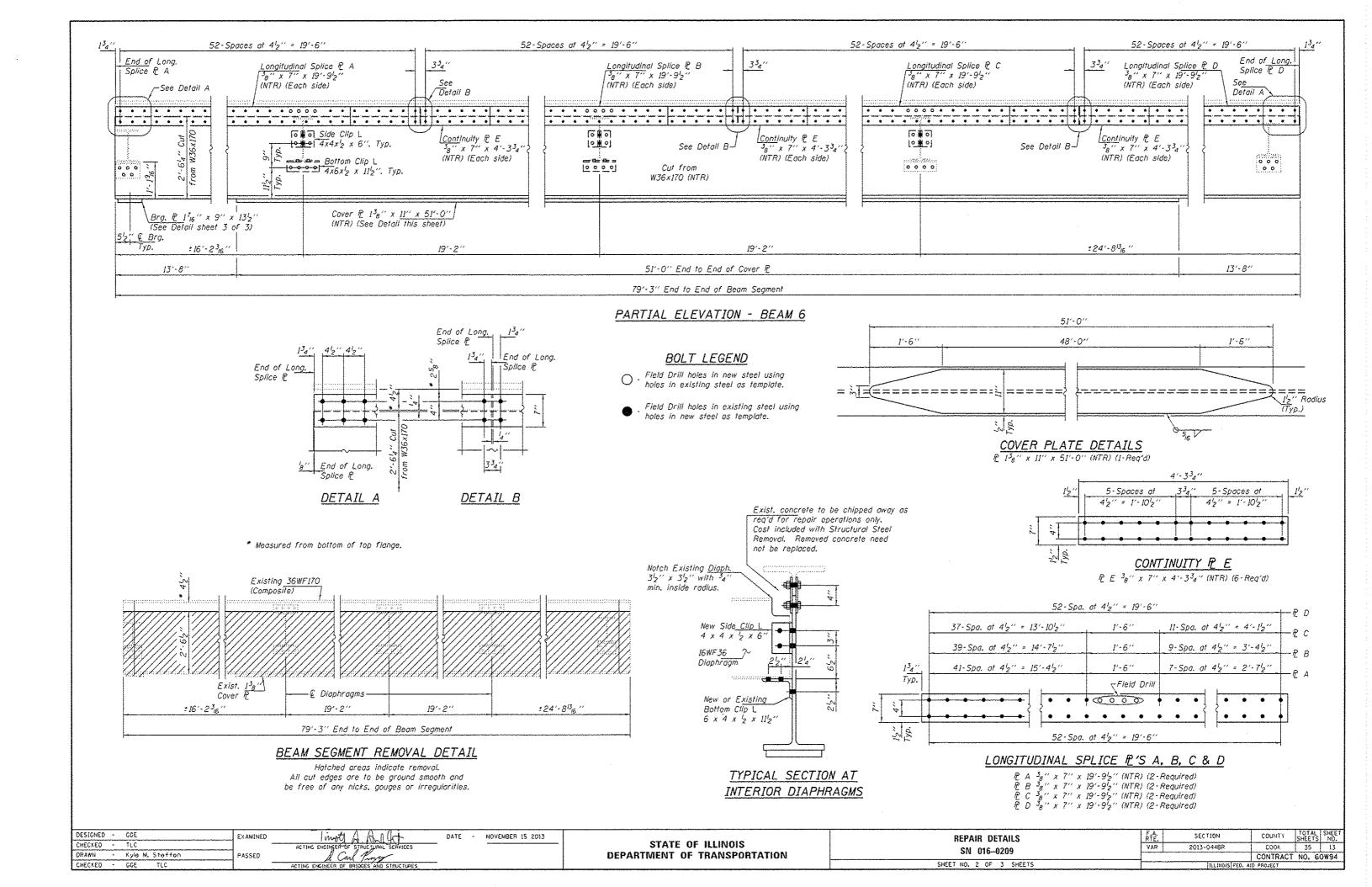
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

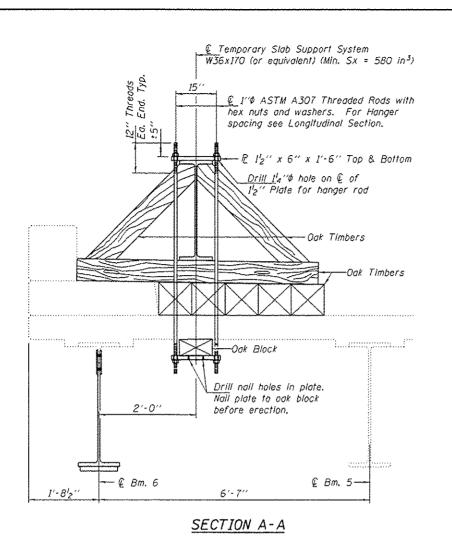
GENERAL PLAN & ELEVATION
ILLINDIS ROUTE 171 - ARCHER AVENUE (WB) OVER RAMP A
SN 016-0209
SHEET NO. 1 OF 3 SHEETS

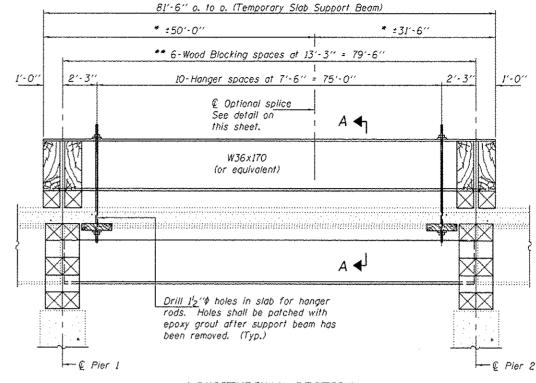
F.A. RTE. SECTION COUNTY TOTAL SHEET NO.

VAR 2013-044BR COOK 35 12

CONTRACT NO. 60W94



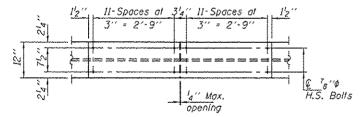




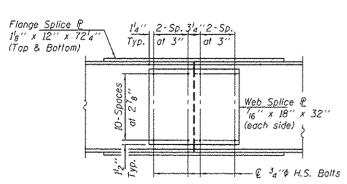
#### LONGITUDINAL SECTION SUGGESTED TEMPORARY SLAB SUPPORT SYSTEM

- \*\* These dimensions may vary for available beams in stock.

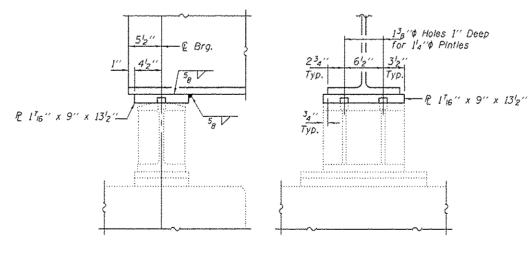
  \*\* Wood Blocking between supports to be placed after support beam deflects under its own weight.



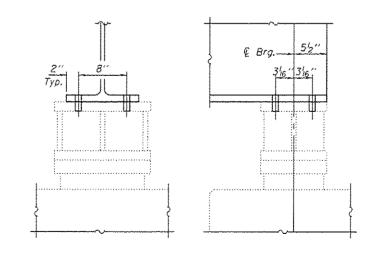
#### FLANGE SPLICE PLATE



WEB SPLICE PLATE



FIXED BEARING AT PIER 1



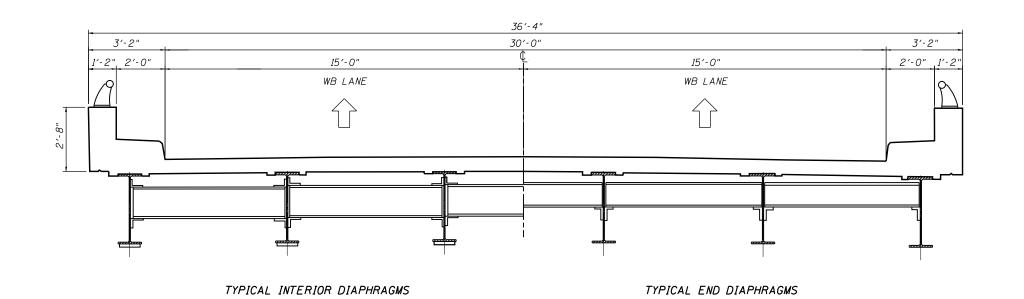
EXPANSION BEARING AT PIER 2

DESIGNED	-	GGE	EXAMINED	Timots A A. 1 (1-1	DATE	-	NOVEMBER 15 2013	Γ
CHECKED	-	TLC		ACTING ENGINEER OF STRUCTURAL SERVICES			***************************************	
DRAWN	-	Kyle M. Steffen	PASSED	A Carl Prover				
CHECKED	-	GGE TLC		ACTING ENGINEER OF RRIDGES AND STRUCTURES				

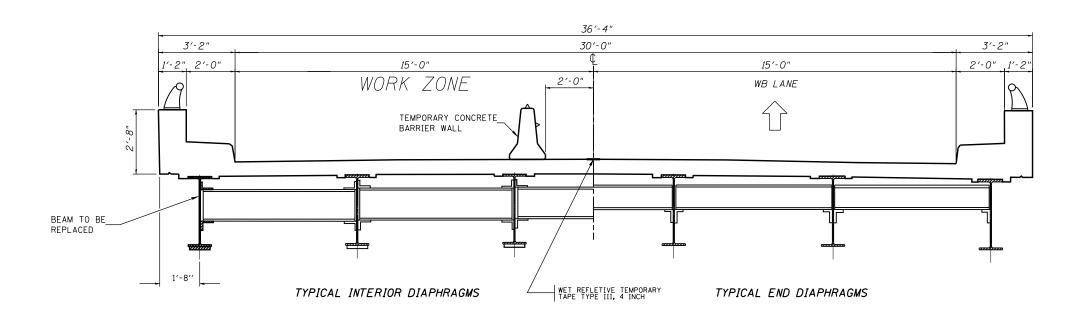
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY	SLAB	SUF						BEARING	DETAILS	
			SN	U	16-	021	19			
	S	HEET	NO.	3	QF.	3	SHEETS			

F.A. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
VAR	2013-044BR	COOK	35	14
		CONTRACT	NO. 6	QW34
	ILLINOIS FED. AL	D PROJECT		

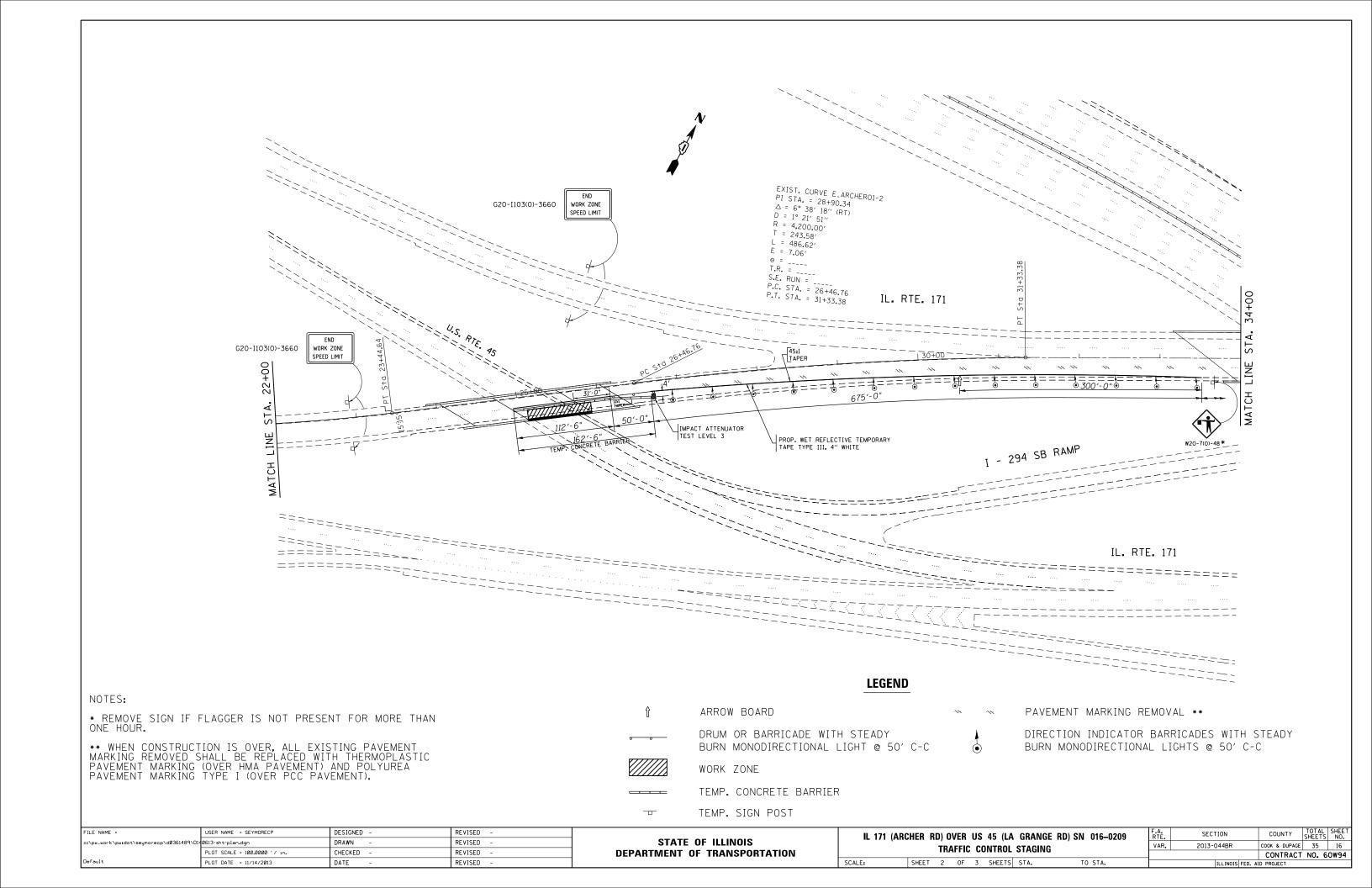


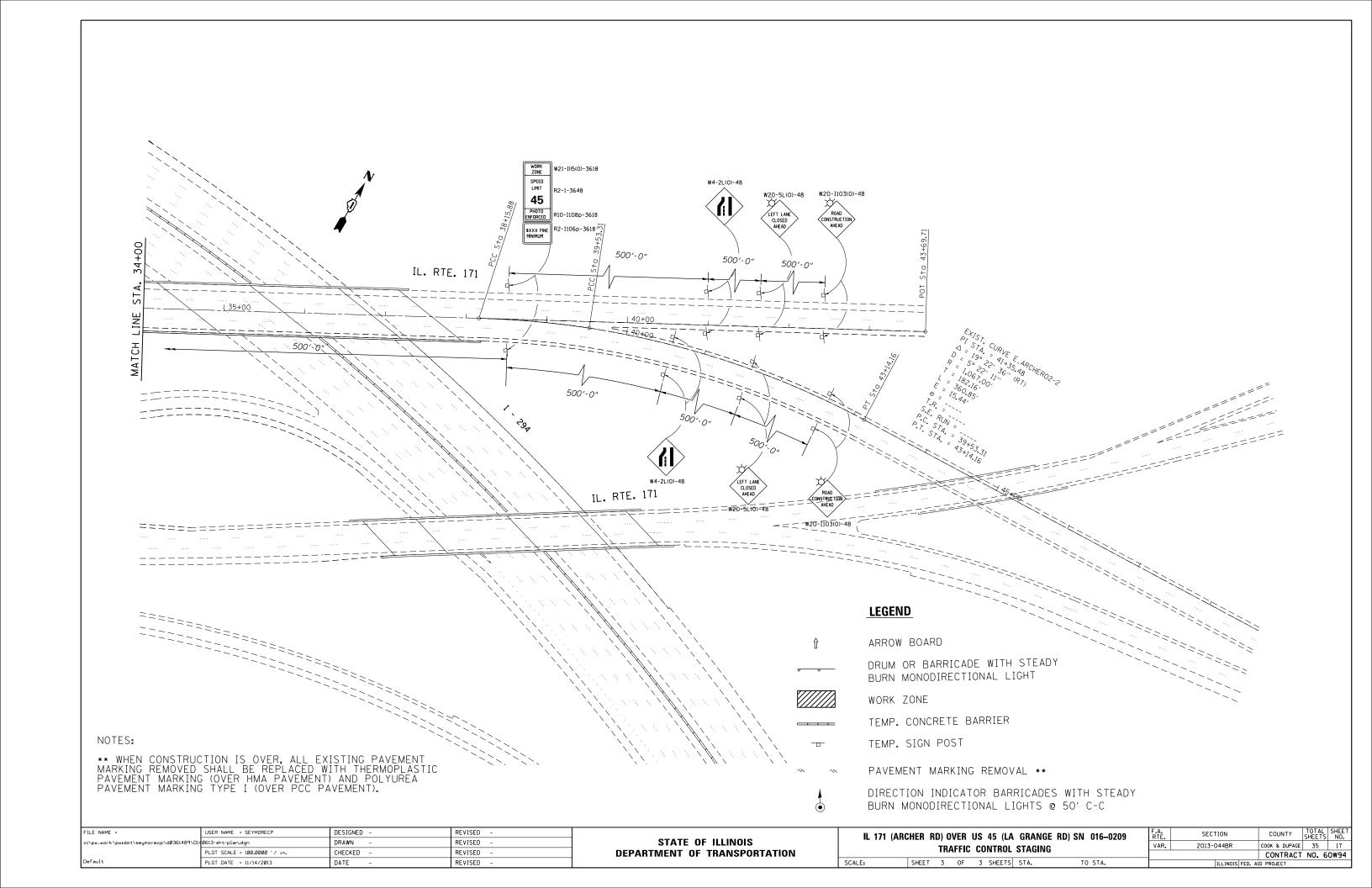
#### <u>EXISTING</u> <u>CROSS SECTION</u>

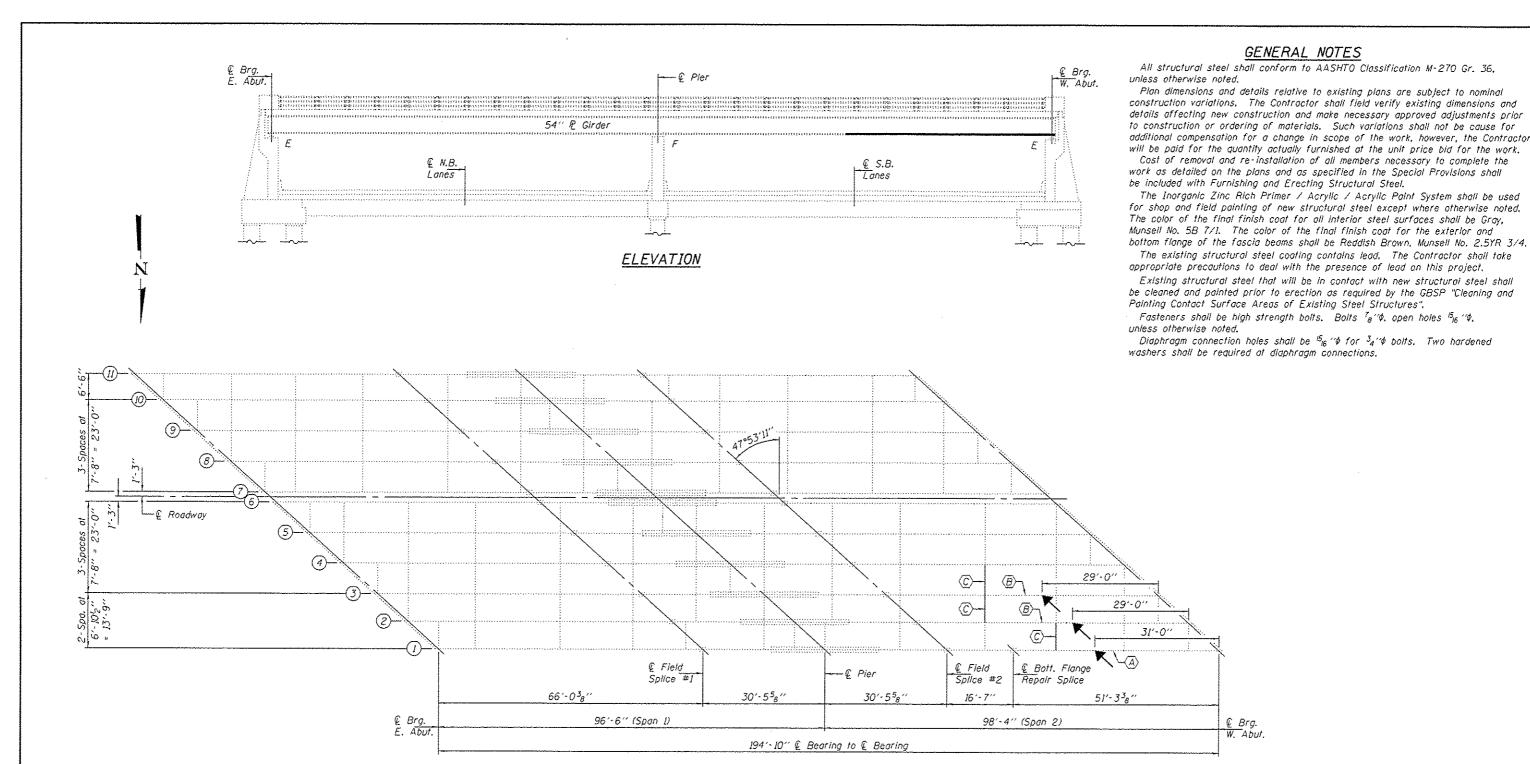


#### <u>STAGING</u>

FILE NAME =	USER NAME = SEYMORECP	DESIGNED -	REVISED -		IL 171 (ARCHER RD) OVER US 45 (LA GRANGE RD) SN 016-0209	F.A.	SECTION	COUNTY TOTAL SI	EET
c:\pw_work\pwidot\seymorecp\d0361489\D	140613-sht-typical.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	, , , , , , , , , , , , , , , , , , , ,	VAR.	2013-044BR	COOK & DUPAGE 35	15
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL STAGING			CONTRACT NO. 60V	94
Default	PLOT DATE = 11/14/2013	DATE -	REVISED -		SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	







#### FRAMING PLAN

- (A) Remove & Replace Bottom Flange Angles.
- $\langle B \rangle$  Straighten Existing Bottom Flange Angles.
- $\langle \overline{\mathcal{C}} \rangle$  Remove & Replace Cross Frames.

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	<b>OUANTIT</b> Y
Structural Steel Removal	Pound	5170
Furnishing & Erecting Structural Steel	Pound	5360
Beam Straightening	L.S.	0.25
Temporary Slab Support System	L.S.	0.33
	<del></del>	<del></del>
	-	<del> </del>

RUCTURA

DAVID CARL

PUZEY

081-005470

SPRINGFIELD ILLINOIS

DESIGNED Street Movember, 30, 2014

OESIGNED Street Movember, 30, 2014

CHECKED Street Movember, 30, 2014

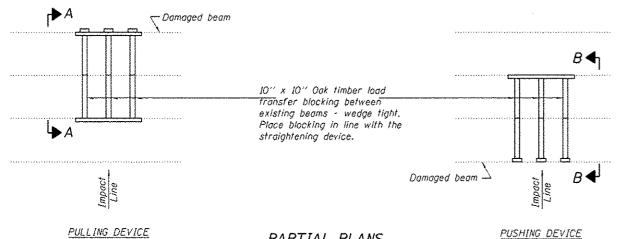
DRAWN Kyld M Staffen CHECKED TONS

EXAMINED

DATE - NOVEMBER 15, 2013

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  GENERAL PLAN & ELEVATION
HUBBARD STREET OVER KENNEDY EXPRESSWAY SN 016-2050 SHEET NO. 1 OF 4 SHEETS

F.A. RTE. VAR TOTAL SHEET SHEETS NO. 35 18 SECTION COUNTY 2013-044BR COOK CONTRACT NO. 60W94

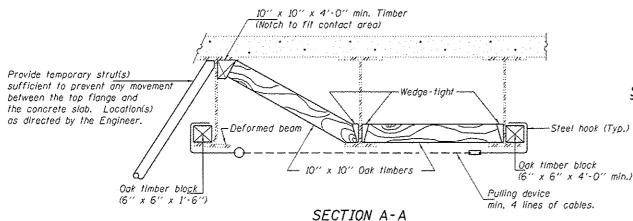


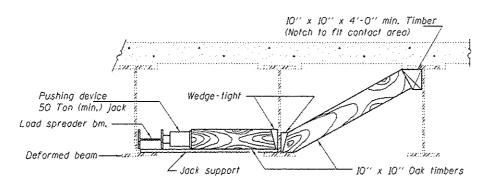
#### PULLING DEVICE

#### PARTIAL PLANS

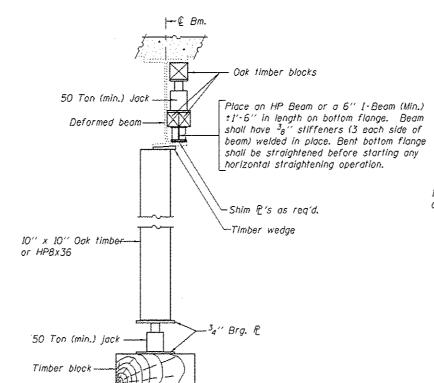
#### SUGGESTED BEAM STRAIGHTENING METHODS

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



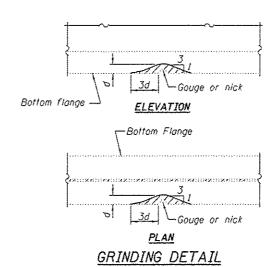


#### SECTION B-B

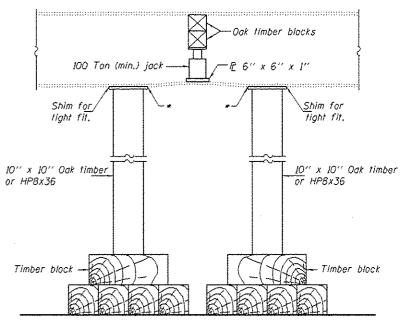


#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



Grind existing nicks, gauges 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 'a" 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.



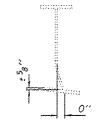
#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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 South) (Approximate max. deflections) Deflected length of beam to be straightened is approximately 4'.

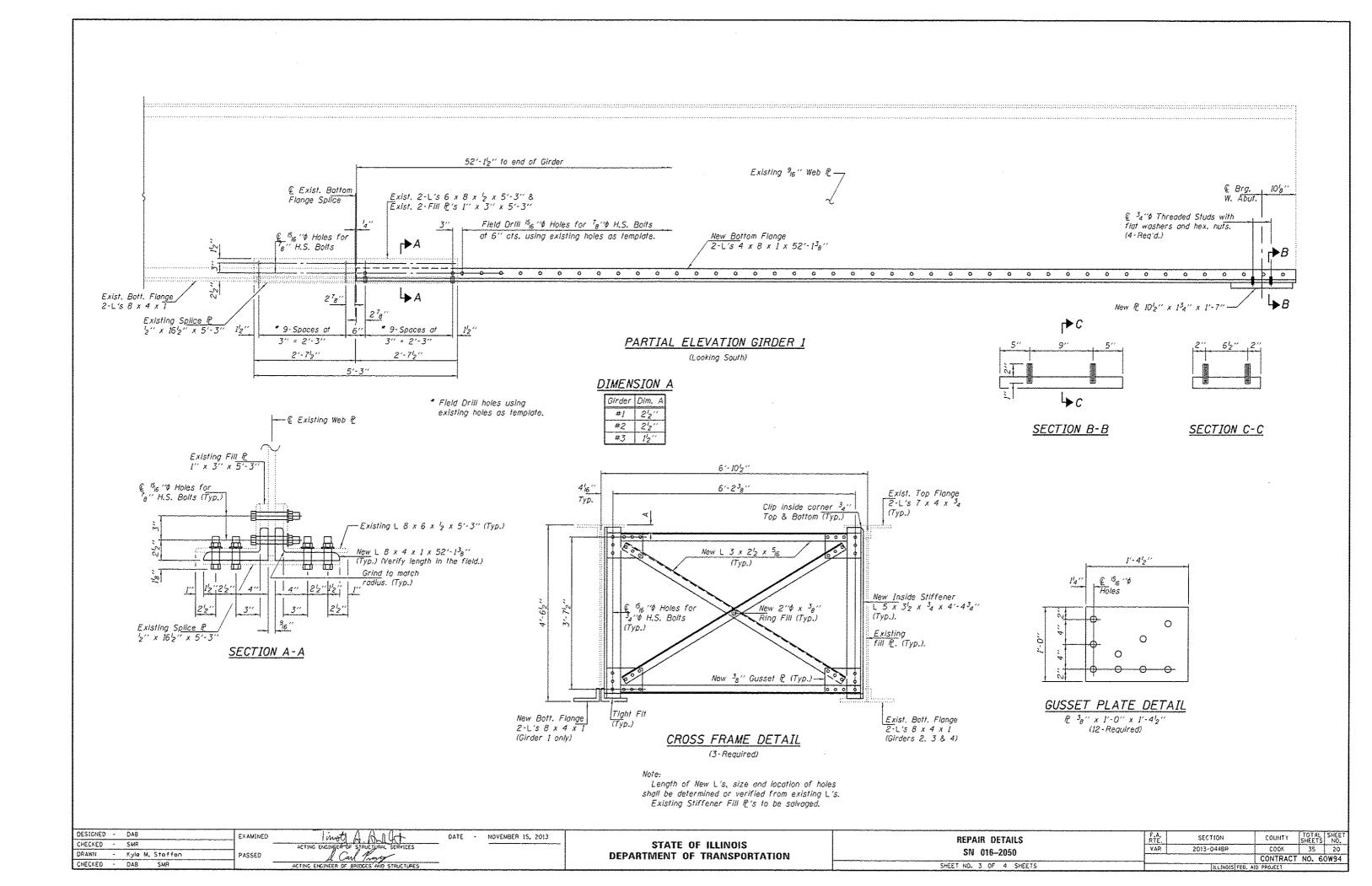
REP-1	1-14-2005

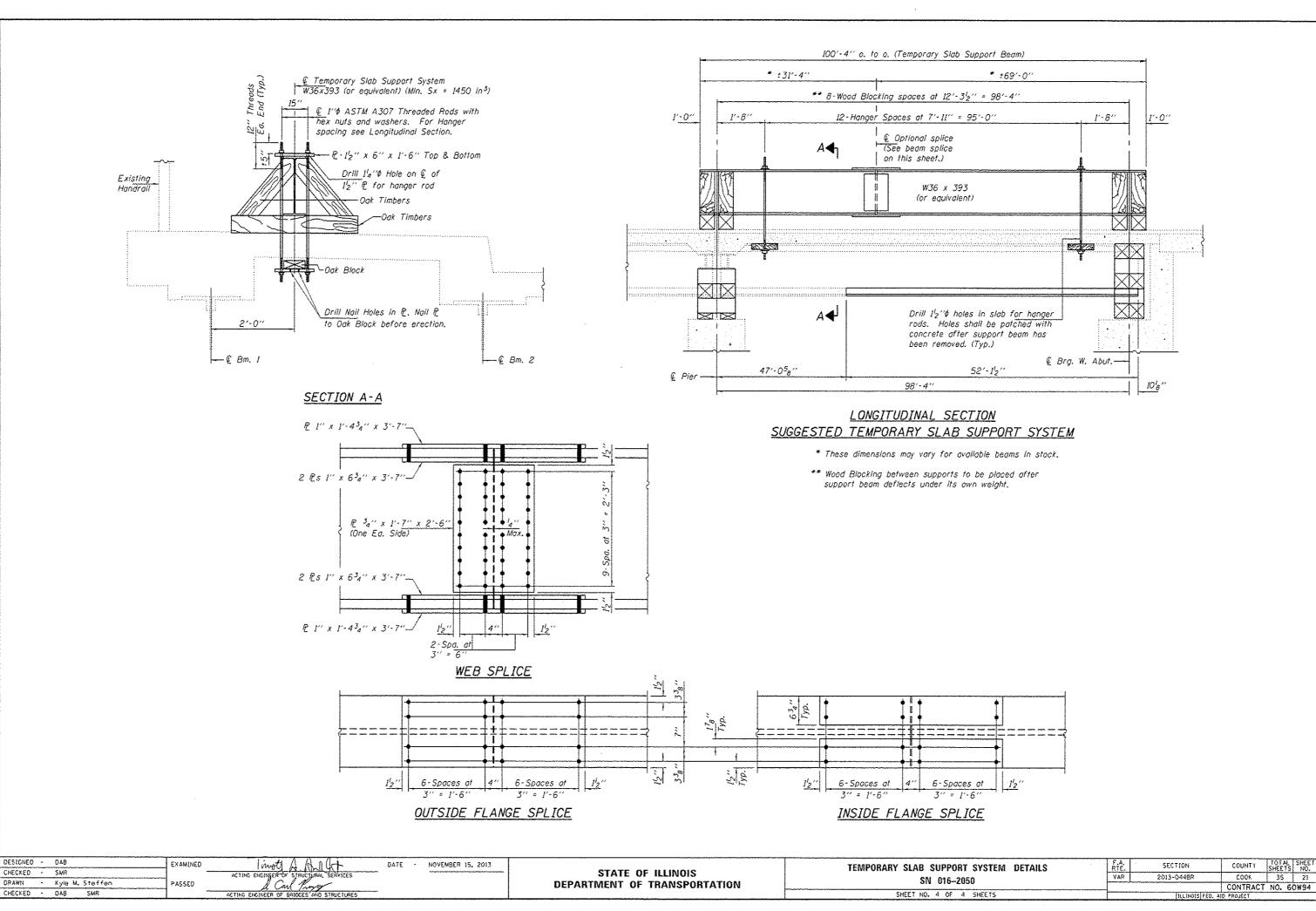
DESIGNED - DAB FXAMINED NOVEMBER 15, 2013 CHECKED - SMR - Kyla M. Staffan PASSED CHECKED - DAB SMR

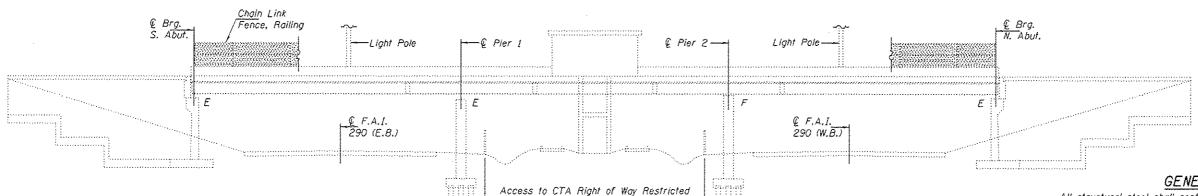
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  STRAIGHTENING DETAILS FOR GIRDERS 2 & 3 SN 016-2050

SHEET NO. 2 OF 4 SHEETS

COHNTY VAR 2013-044BR COOK 35 19 CONTRACT NO. 60W94



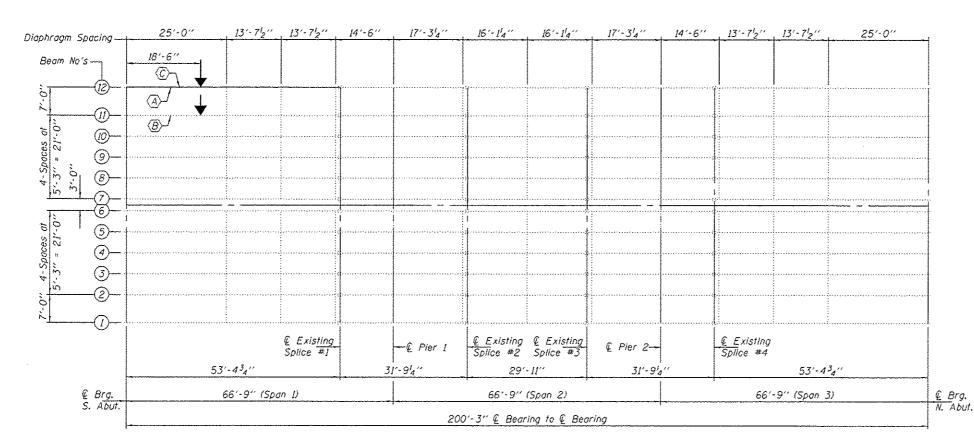




See Special Provisions

ELEVATION

\_\_\_Z\_\_



#### FRAMING PLAN

Impact Line

- (A) Replace Beam Segment
- (B) Straighten & Strengthen Existing Beam
- $\langle \overline{\mathcal{C}} \rangle$  Remove and replace existing Sign Structure

#### GENERAL NOTES

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

Flan 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 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 coat for all interior steel surfaces shall be gray. Munsell No. 58 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Diaphragm connection holes shall be  $^{15}$ 16 of for  $^{3}$ 4 of bolts. Two hardened

washers shall be required at diaphragm connections.

Fasteners shall be high strength bolts. Flange splice holes shall be  $^{15}\!\!\!/_{16}$  "\$ for  $^{7}\!\!\!/_{9}$  bolts.

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field 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".

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.

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.

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

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

 $\underline{\mathscr{C}}$  Brg. Load carrying components designated "NTR" shall conform to the Supplemental N. Abut. Requirements for Notch Toughness, Zone 2.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	<b>OUANTITY</b>	
Concrete Removal	Cu. Yd.	1.1	
Concrete Superstructure	Cu. Yd.	1.1	
Structural Steel Removal	Pound	8160	
Furnishing & Erecting Structural Steel	Pound	8570	
Beam Straightening	L.S.	0.25	
Temporary Slab Support System	L.S.	0.33	
Remove Overhead Sign Structure - Bridge Mounted	Each	1	
Overhead Sign Structure - Bridge Mounted	Foot	24	

Expires: November 30, 2014

SPRINGFIELD 3\*

ILLINOIS

DESIGNED DATE - NOVEMBER 15, 2013

CHECKED DRAWN - Kyle M. Steffen PASSED ACTING ENGINEER OF BRIDGER AND STRUCTURES

ACTING ENGINEER OF BRIDGER AND STRUCTURES

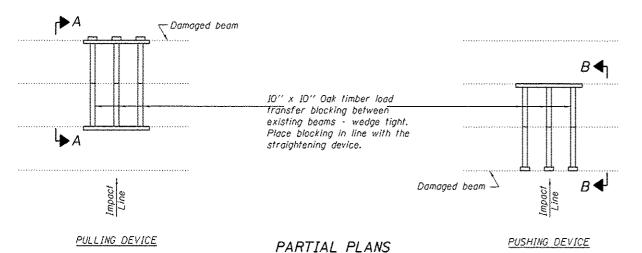
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
KEELER AVENUE OVER 1-290
SN 016-2068
SHEET NO. 1 OF 7 SHEETS

F.A. SECTION COUNTY TOTAL SHEETS NO.

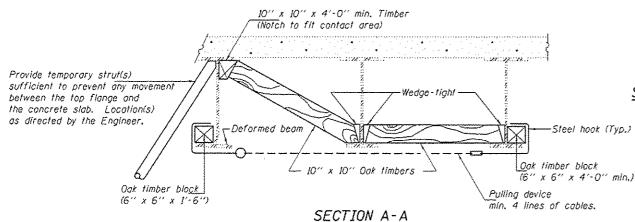
VAR 2013-044BR COOK 35 22

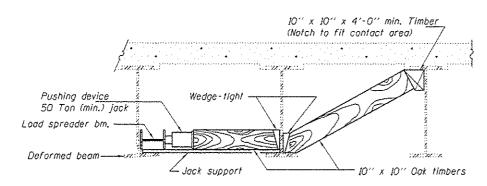
CONTRACT NO. 60W94



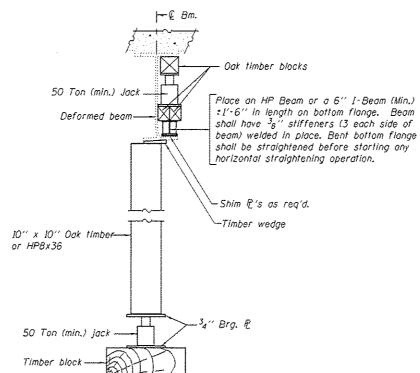
#### SUGGESTED BEAM STRAIGHTENING METHODS

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



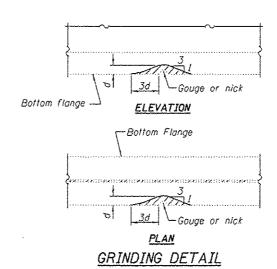


#### SECTION B-B

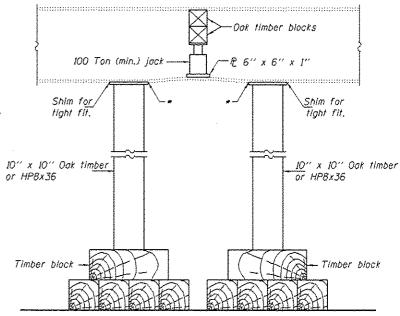


#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



# 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 pointed 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,



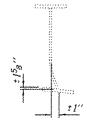
#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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

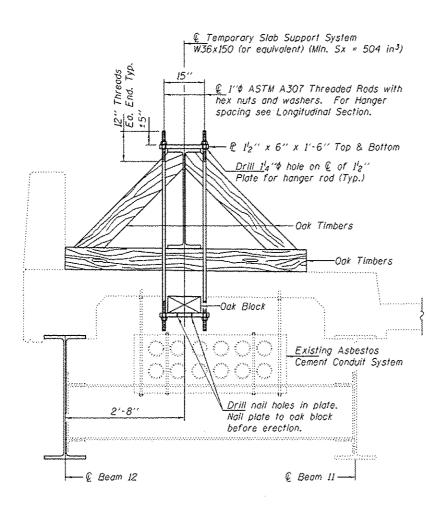
(Looking West)
(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 4'.

REP-	1 1	14 - 2005					
DESIGNED	-	DAB	EXAMINED	Timoth A Ander	DATE	-	NOVEMBER 15, 2013
CHECKED	-	TLC	]	ACTING ENGINEER OF STRUCTURAL SERVICES			
DRAWN	-	Kyle M. Staffen	PASSED	A Carl Novement			

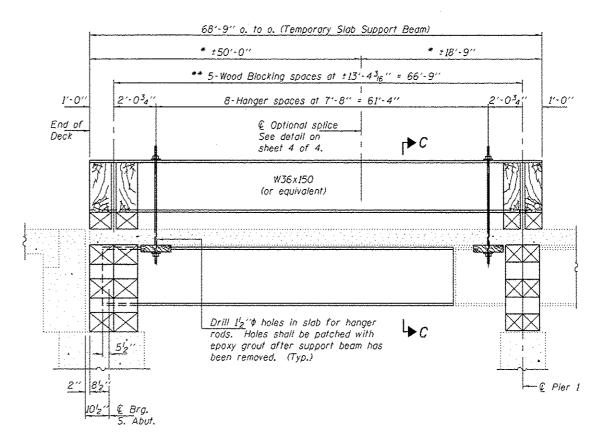
CHECKED - DAB

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM	STRA	IGHTENING	DETAILS	•
	SN	016-2068		
SHE	ET NO.	2 OF 7	SHEETS	

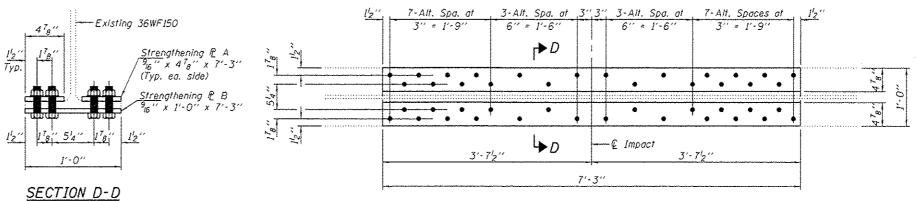


SECTION C-C
(Looking North)



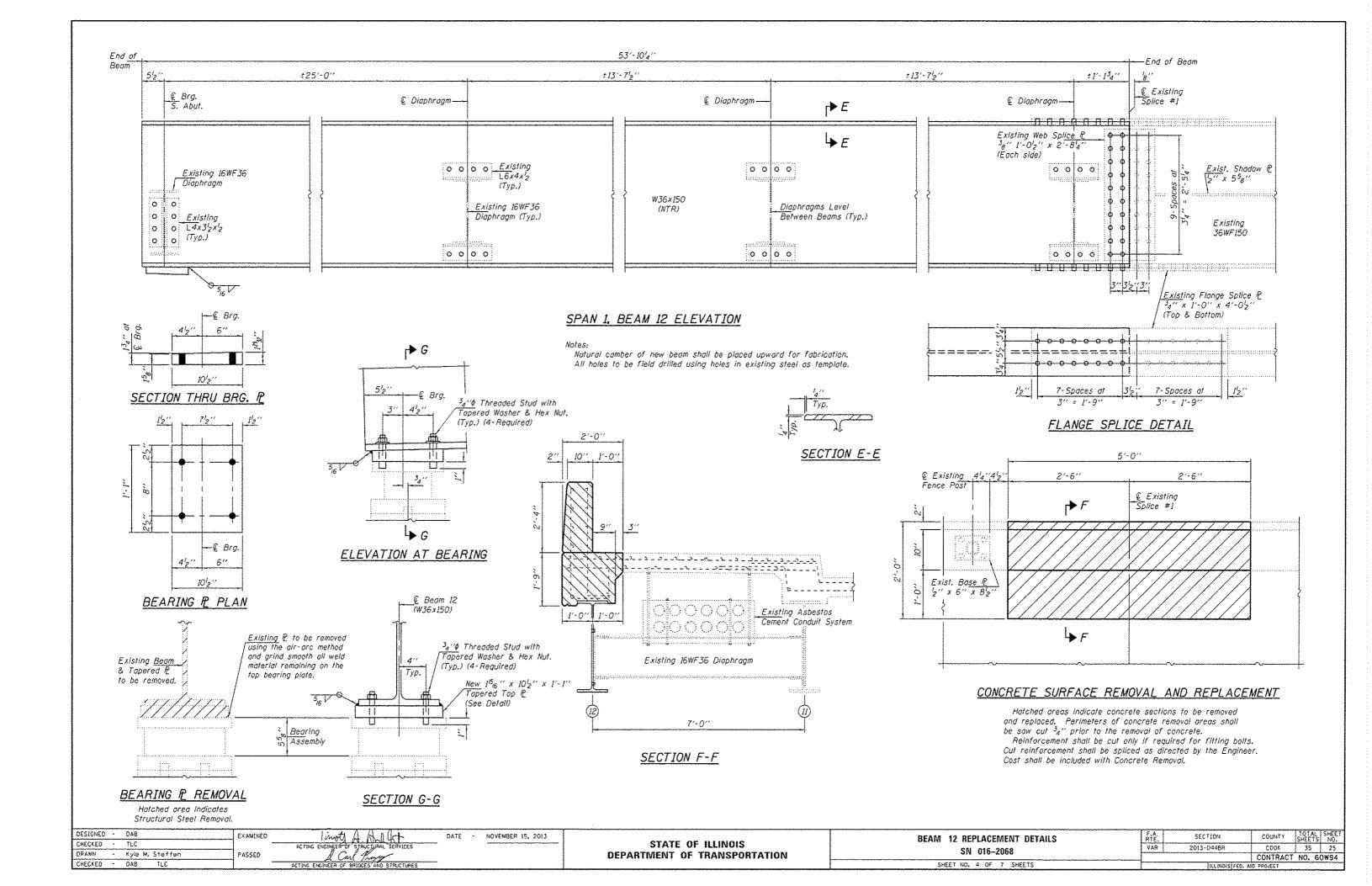
### <u>LONGITUDINAL SECTION</u> SUGGESTED TEMPORARY SLAB SUPPORT SYSTEM

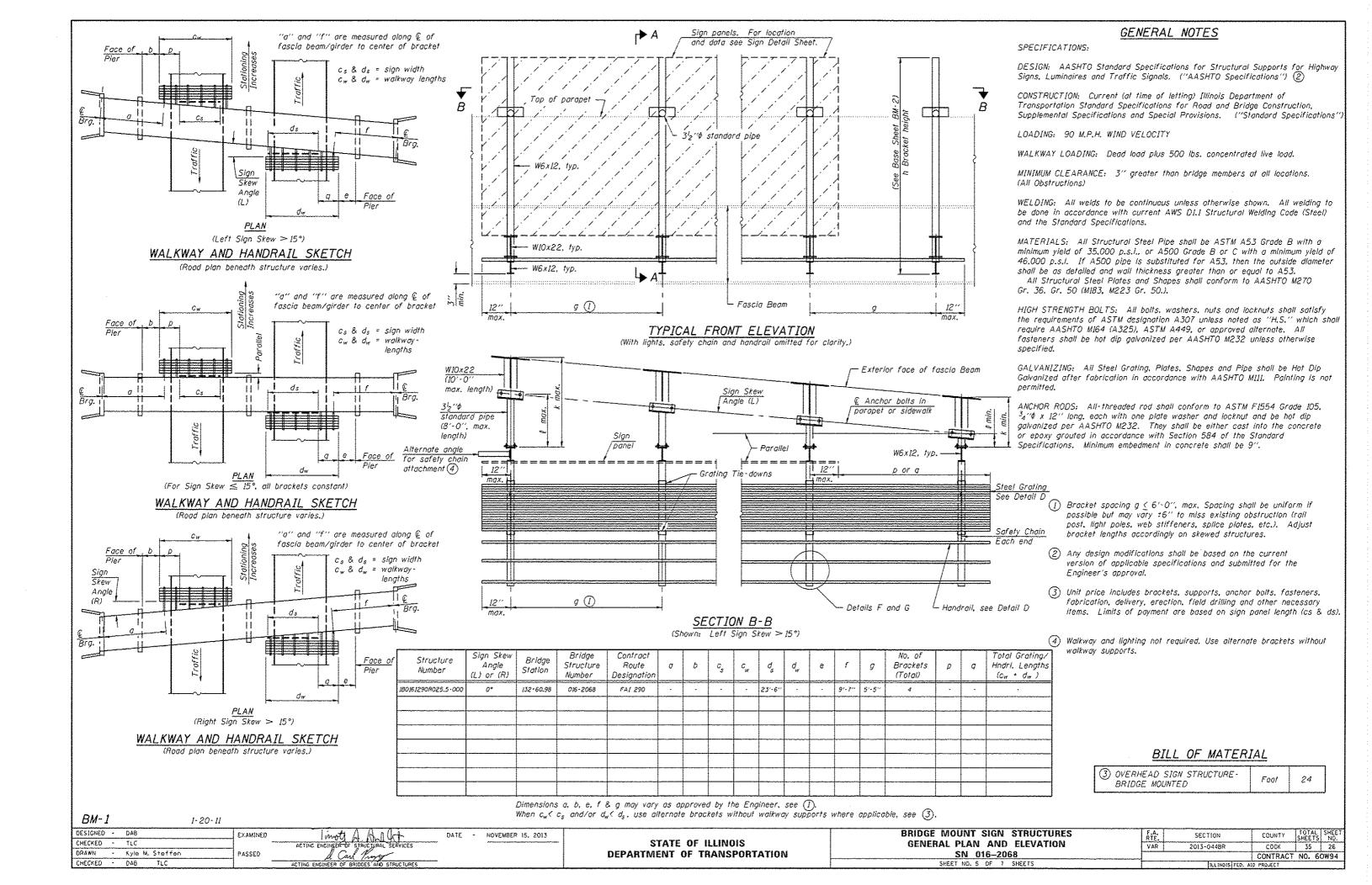
- \* These dimensions may vary for available beams in stock.
- \*\* Wood Blocking between supports to be placed after support beam deflects under its own weight.

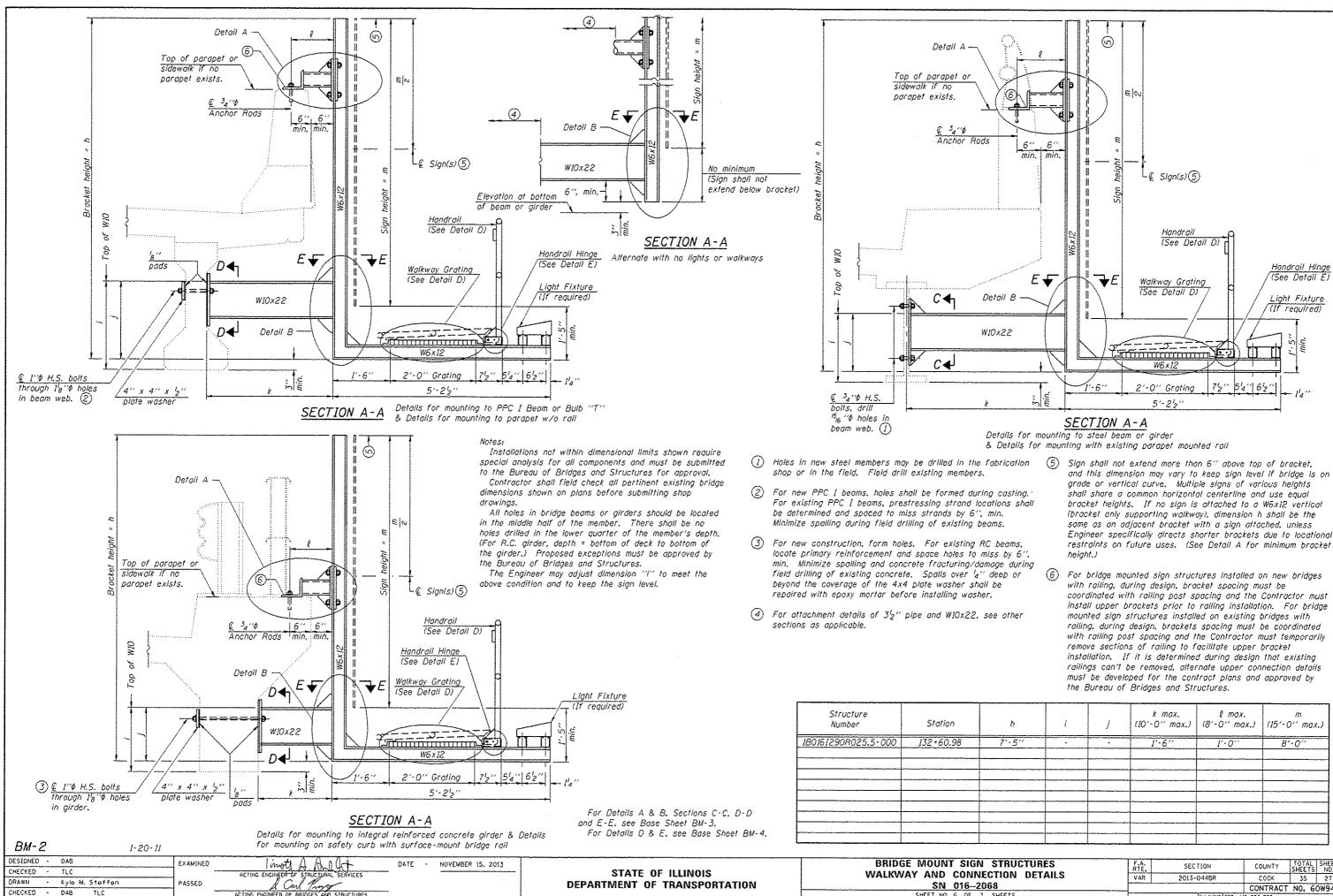


#### SPAN 1, BEAM 11 STRENGTHENING DETAILS

DESIGNED - DAB	EXAMINED INOU A AND GO D	DATE - NOVEMBER 15, 2013	OTATE OF BURIOUS	TEMPORARY SLAB SUPPORT SYSTEM & STRENGTHENING DETAILS	F.A. SECTION	COUNTY TOTAL SHEET NO.
CHECKED - TLC DRAWN - Kyle M. Steffen	PASSED ACTING ENGINEER OF STRUCTURAL SERVICES  PASSED  ACTING ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 016-2068	VAR 2013-0448R	COOK 35 24 CONTRACT NO. 60W94
CHECKED - DAB TLE	ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 3 OF 7 SHEETS	ILLINOIS FEO.	AID PROJECT







**DEPARTMENT OF TRANSPORTATION** 

DRAWN - Kyle M. Steffen

CHECKED - DAB

PASSED

WALKWAY AND CONNECTION DETAILS SN 016-2068 SHEET NO. 6 OF 7 SHEETS

COUNTY TOTAL SHEET NO. COOK 35 27 2013-0446R CONTRACT NO. 60W94 ILLINOIS FED. AID PROJECT

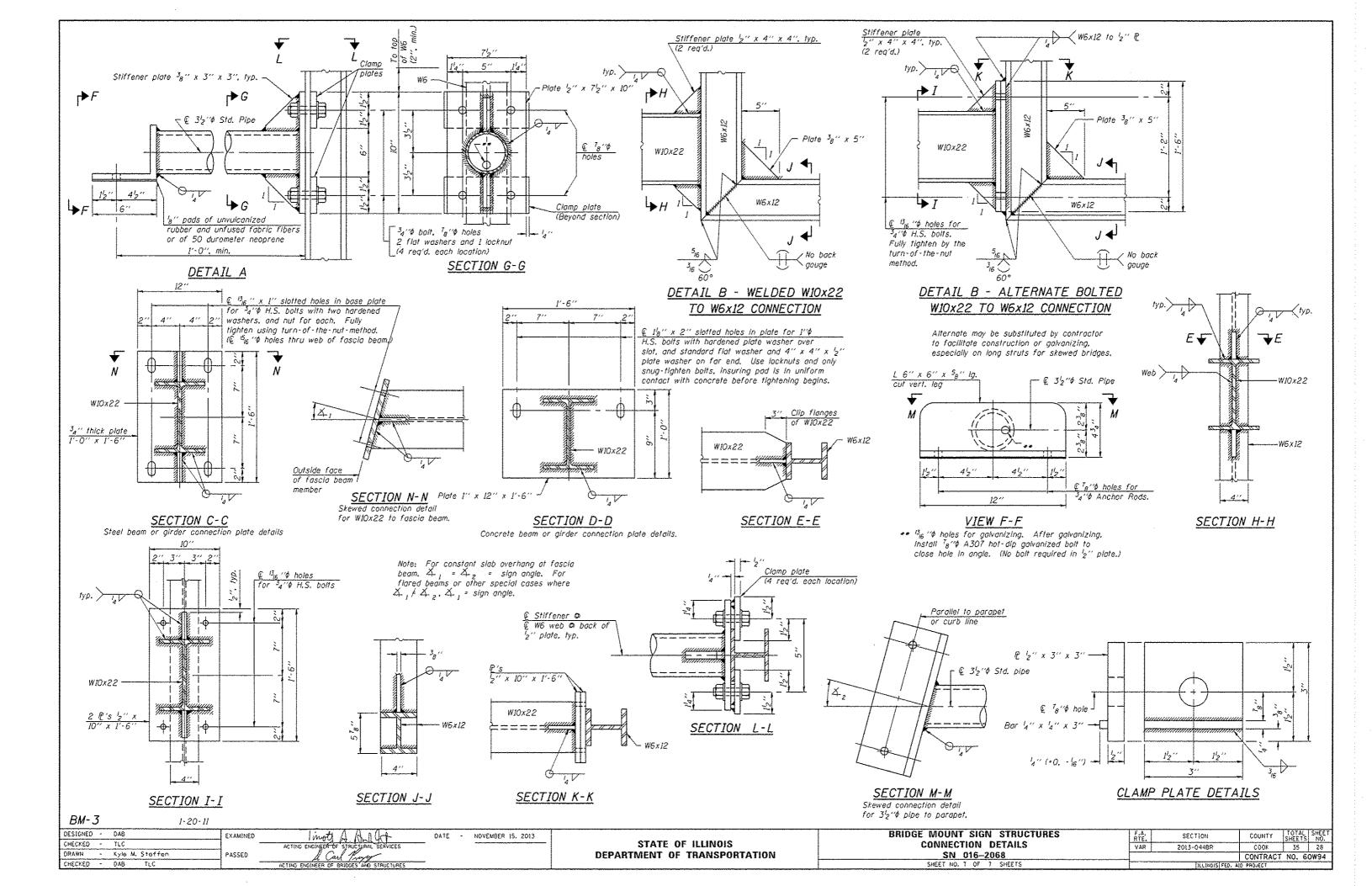
Handrail Hinge (See Detail E)

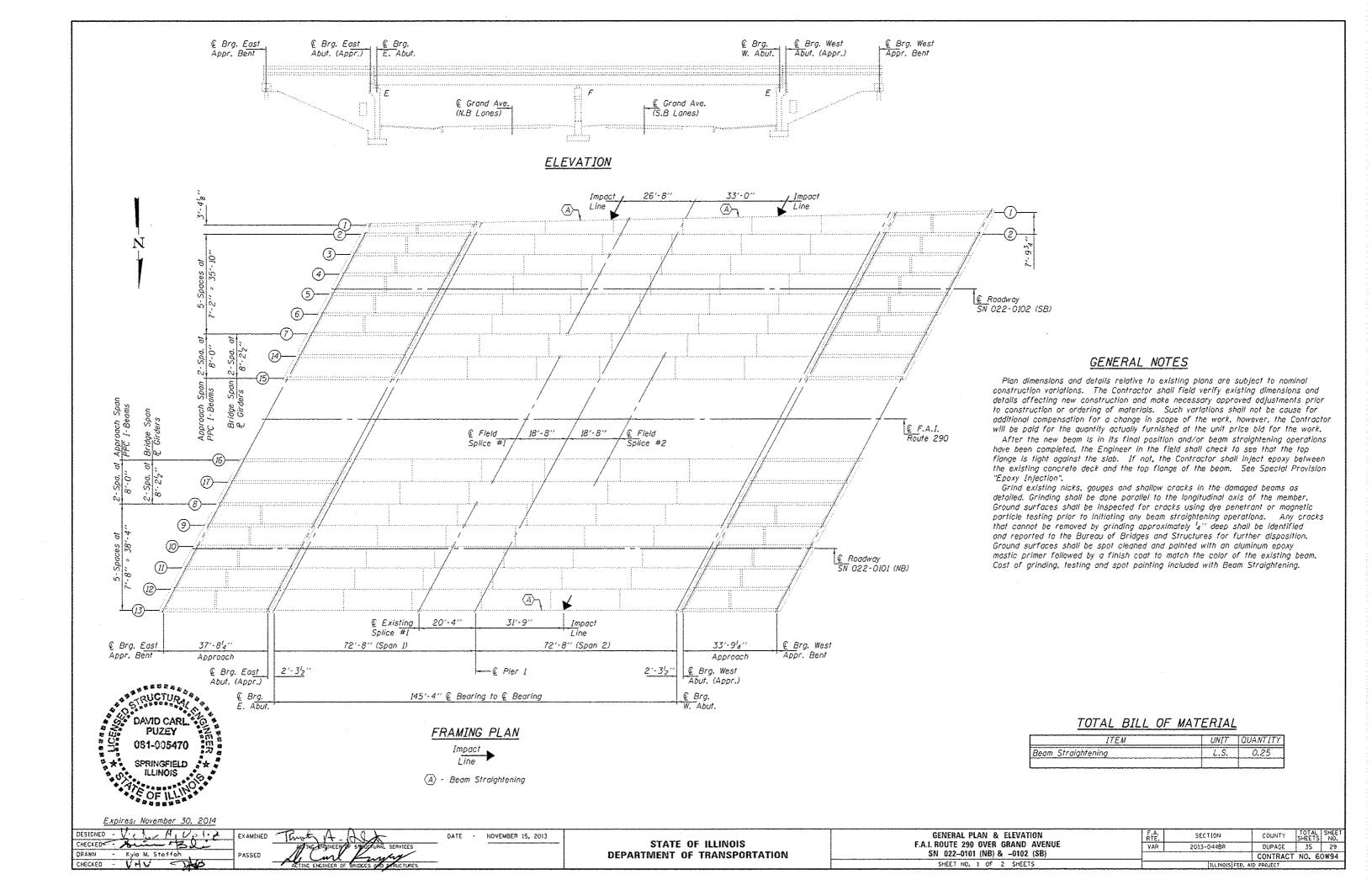
ight Fixture

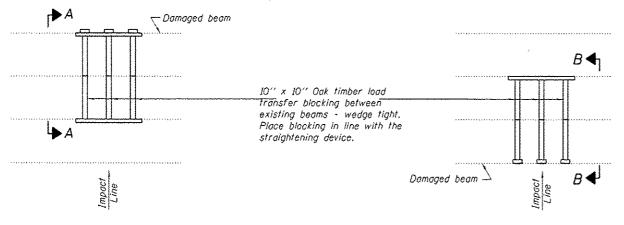
(If required)

(15'-0" max.)

8'-0'







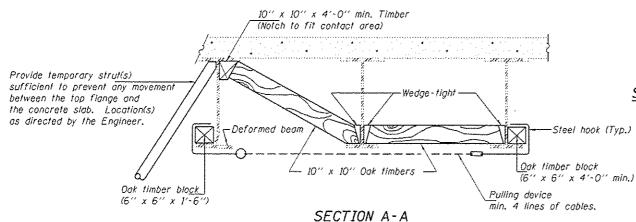
PULLING DEVICE

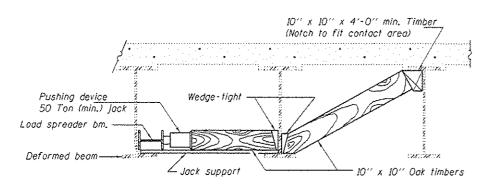
#### PARTIAL PLANS

PUSHING DEVICE

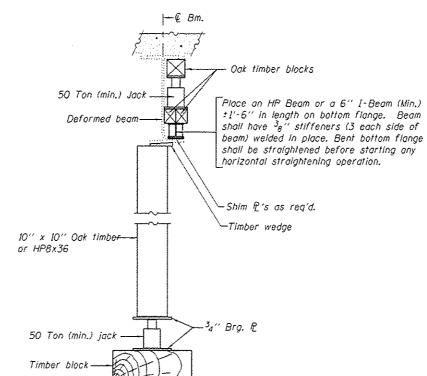
#### SUGGESTED BEAM STRAIGHTENING METHODS

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



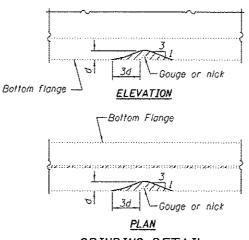


SECTION B-B



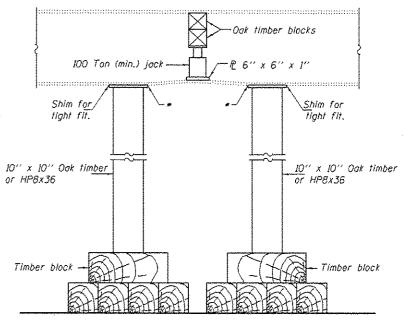
#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



#### GRINDING DETAIL

Grind existing nicks, gauges and shallow cracks in the damaged beams as detalled. 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 \(^1\_4\)'' 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.



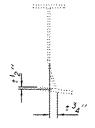
#### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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 6'.

RFF	D_ 1	}-	14-	2005

DESIGNED - VHV EXAMINED UND A DATE - NOVEMBER 15, 2013

CHECKED - DAB

DRAWN - Kylo M. Stoffon PASSED

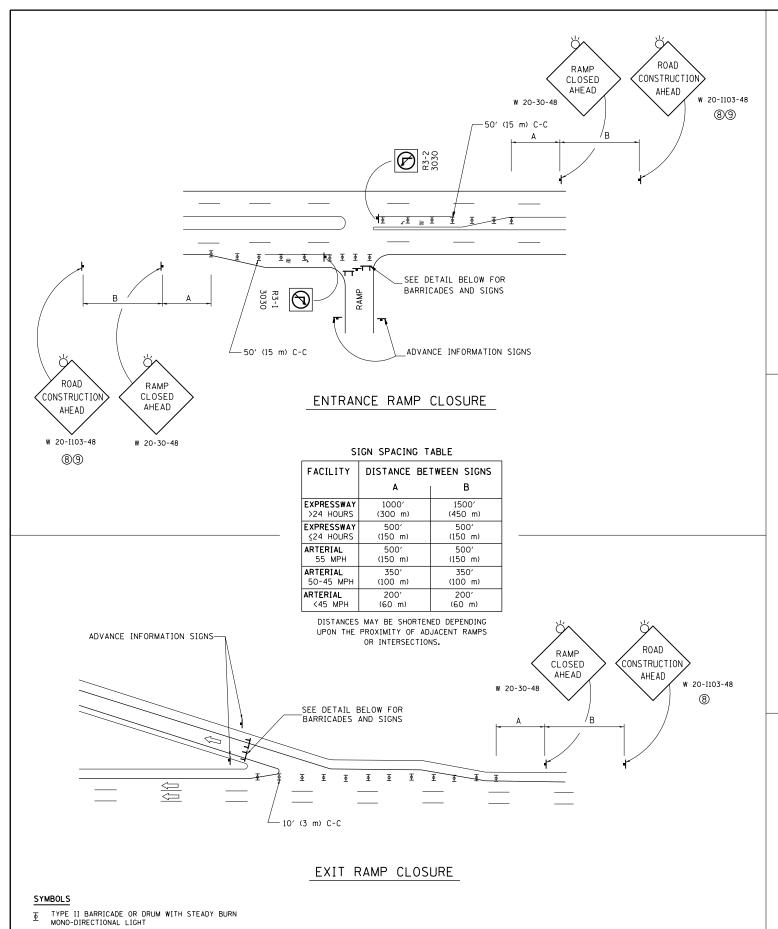
CHECKED - VHV DAB

EXAMINED UND A DATE - NOVEMBER 15, 2013

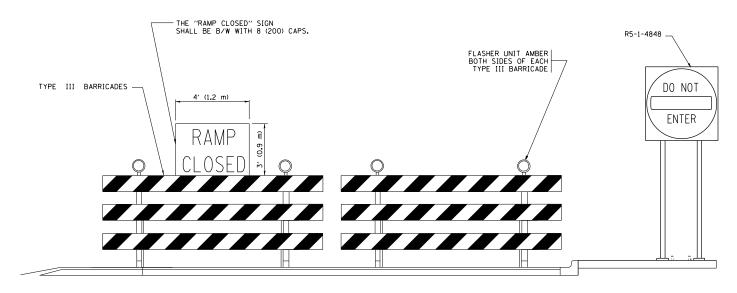
ACTING ENGINEER OF STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

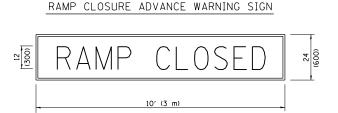
BEAM STRAIGHTENING DETAILS SN 022-0101 (NB) & -0102 (SB) SHEET NO. 2 OF 2 SHEETS F.A. SECTION COUNTY TOTAL SHEETS NO.
VAR 2013-044BR DUPAGE 35 30
CONTRACT NO. 60W94



TYPE III BARRICADE WITH 2 FLASHING LIGHTS

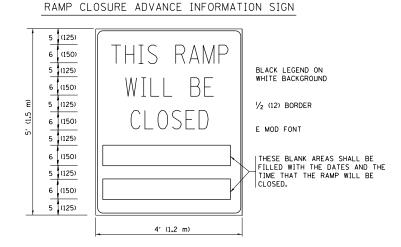


DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE EXIT

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

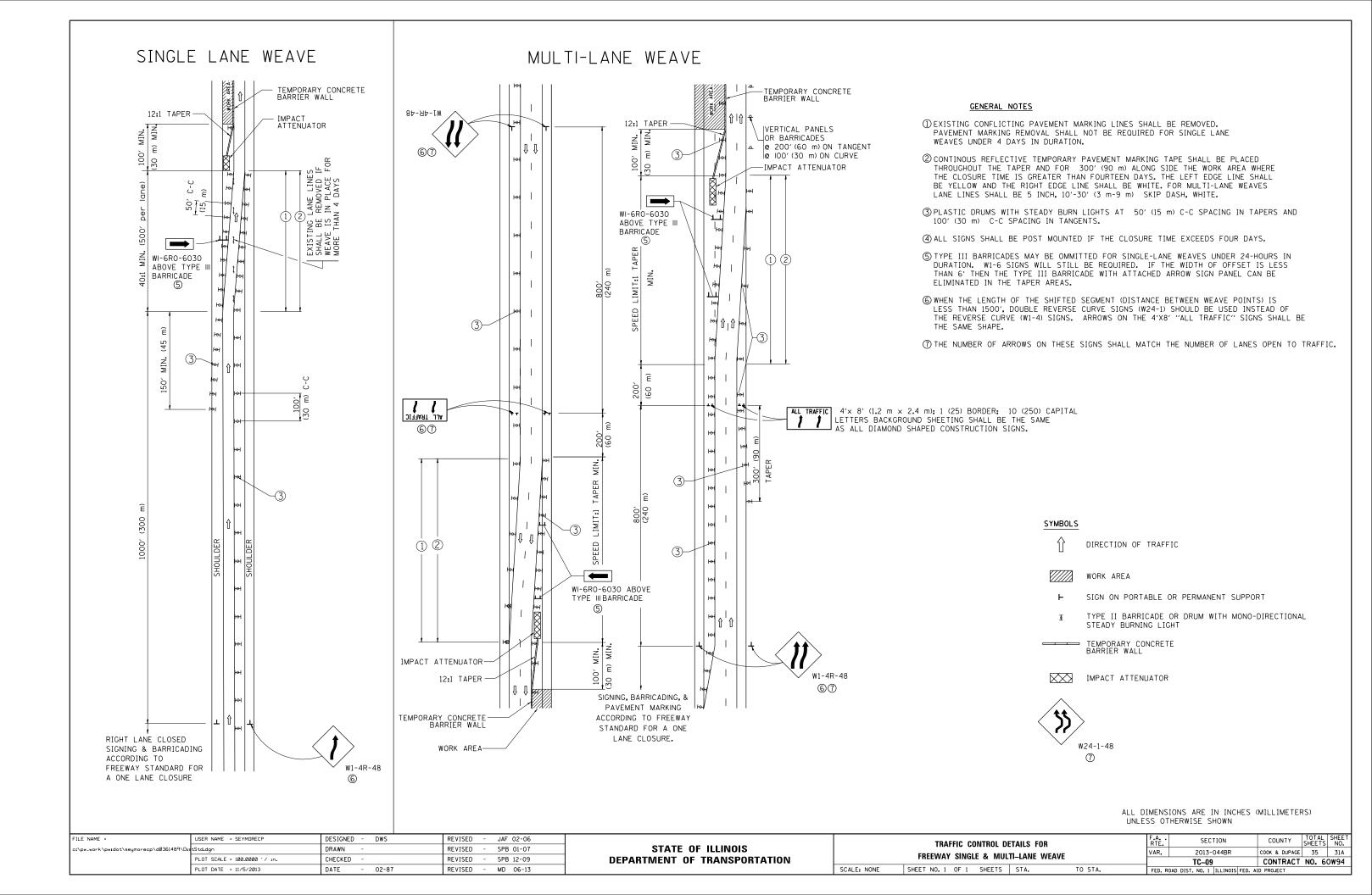
#### GENERAL NOTES:

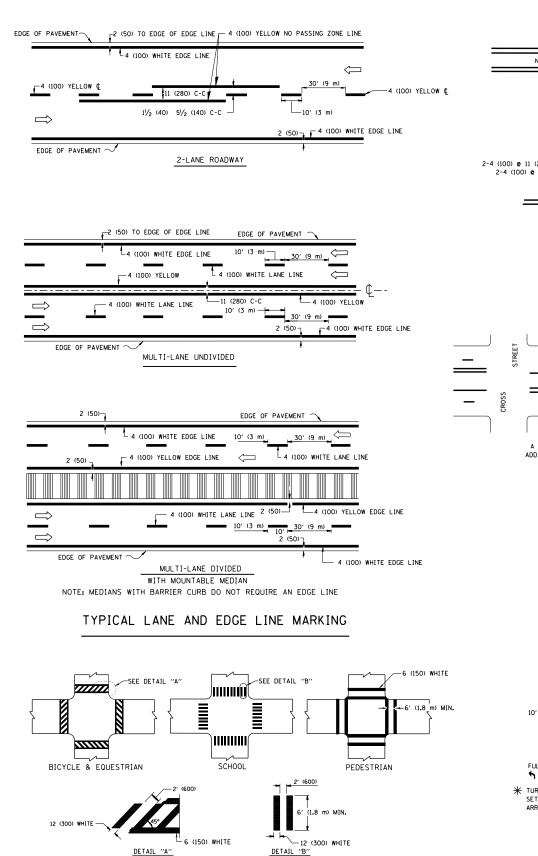
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II
  BARRICADES DURING DAY OPERATIONS. CONES SHALL BE
  A MINIMUM OF 28 (700) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- (3) A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- (7) 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 FOUR (4) DAYS IN LENGTH
- (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.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED
   ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME = USER NAME = SEYMORECP DESIGNED - DWS REVISED JAF 02-06 SECTION COUNTY **ENTRANCE AND EXIT RAMP** STATE OF ILLINOIS c:\pw\_work\pwidot\seymorecp\d0361489\DistStd.dqr ORAWN REVISED SPB 01-07 VAR. 2013-044BR COOK & DUPAGE 35 31 **CLOSURE DETAILS** PLOT SCALE = 100.0000 '/ in. CHECKED REVISED SPB 12-09 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60W94 TC-08 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. DATE 02-83 PLOT DATE = 10/30/2013 REVISED MD 06-13





TYPICAL CROSSWALK MARKING

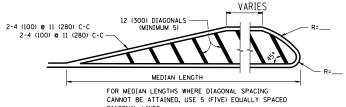
2-4 (100) YELLOW • 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

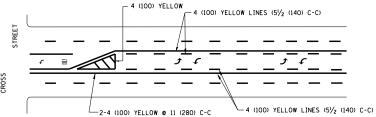
2-4 (100) YELLOW • 11 (280) C-C

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

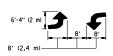


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

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

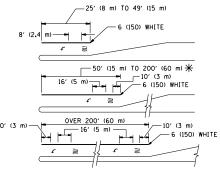


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING

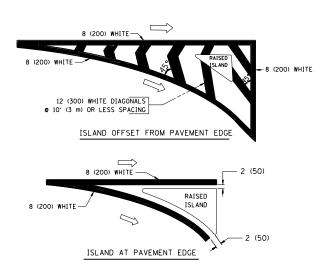


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m² )  $\P$  AREA = 20.8 SO. FT. (1.9 m²)

\* 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 LAN

#### TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

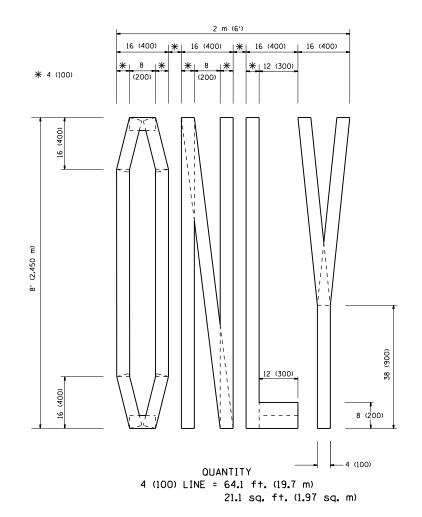
TURE OF MIRWING				DELENIE A DELUBYS
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) 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. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) 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	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 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
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))

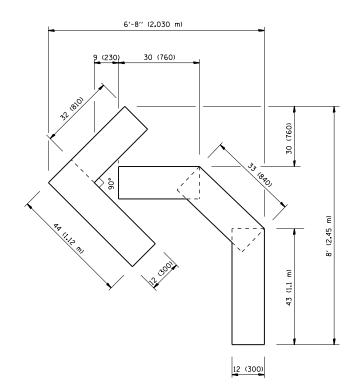
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

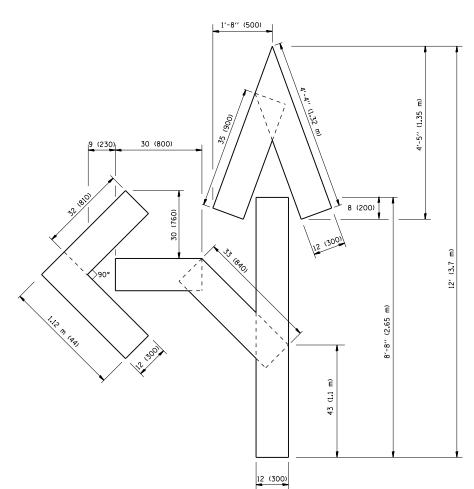
OR RIGHT) TURN LANE			
_			

FILE NAME =	USER NAME = SEYMORECP	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ON	IE		F.A	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\seymorecp\d0361489\Dis	tStd.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKINGS			VAR.	2013-044BR	COOK & DUPAGE		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-13	CONTRACT	NO. 60W94	
	PLOT DATE = 10/30/2013	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS   F	ED. AID PROJECT	





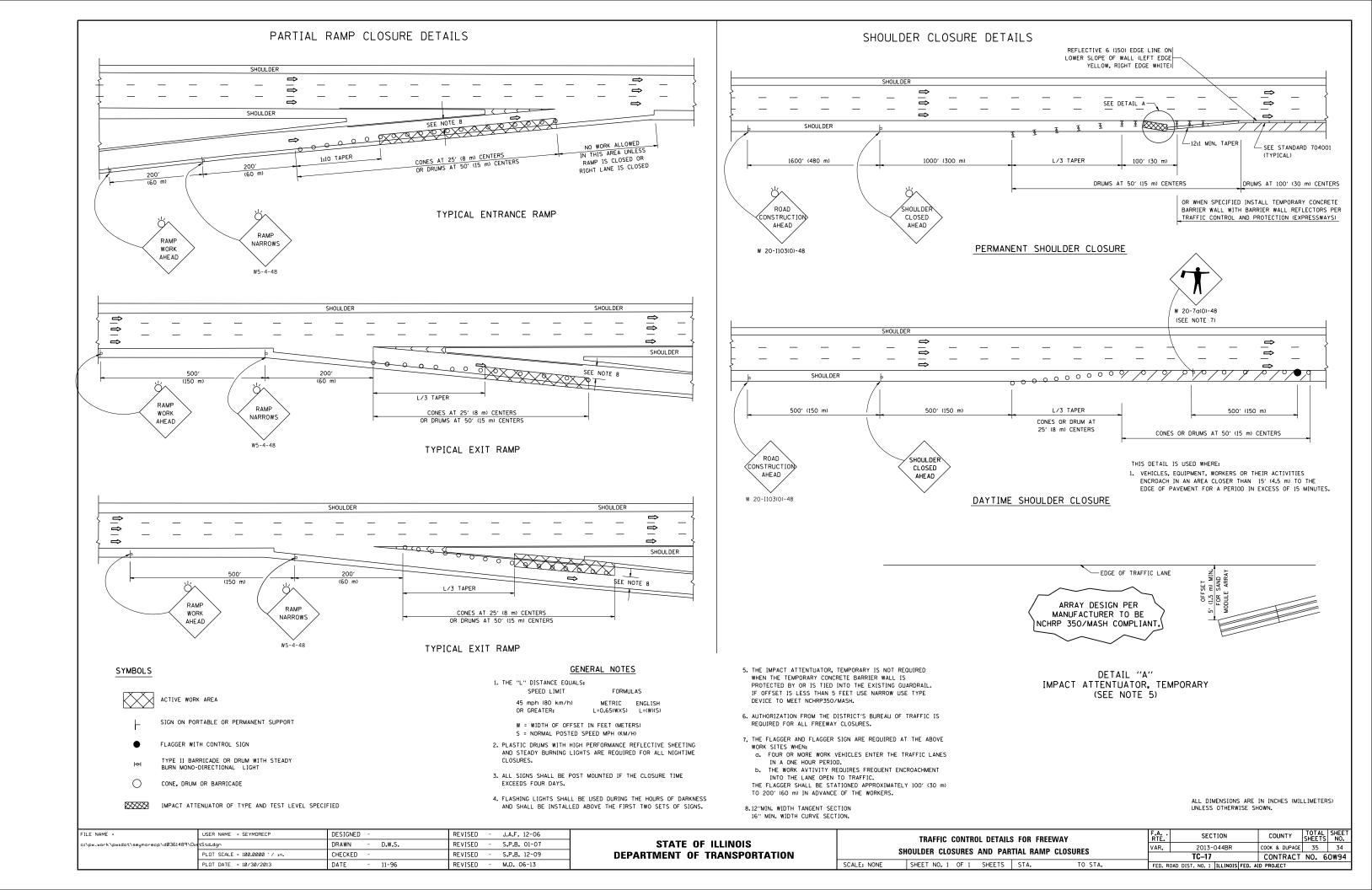
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)

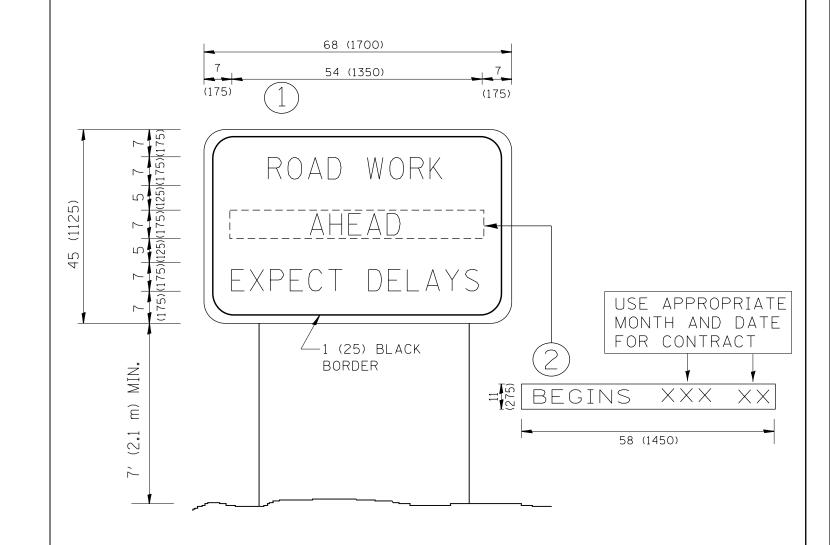


OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = SEYMORECP	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTERS AND SYMBOLS	F.A	SECTION	COUNTY TOTAL	
c:\pw_work\pwidot\seymorecp\d0361489\Di	tStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS	FOR TRAFFIC STAGING		VAR.	2013-044BR	COOK & DUPAGE 35	33
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION				TC-16	CONTRACT NO.	60W94
	PLOT DATE = 10/30/2013	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST.	. NO. 1 ILLINOIS FED. AI	D 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 (1) 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 = SEYMORECP	DESIGNED -	REVISED - R. MIRS 09-15-97	·	ARTERIAL ROAD	F.A. SECTION	COUNTY TOTAL SHEET SHEET NO.
c:\pw_work\pwidot\seymorecp\d0361489\D	stStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	VAR. 2013-044BR	COOK & DUPAGE 35 35
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99		INFORMATION SIGN	TC-22	CONTRACT NO. 60W94
	PLOT DATE = 10/30/2013	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE   SHEET NO. 1 OF 1 SHEETS   STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT