06-15-12 LETTING ITEM 102

FOR INDEX OF SHEETS SEE SHEET 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF BURNHAM AND FOREST VIEW.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 348 & 358	2012-032BR	COOK	10	11

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT ONE PROPOSED HIGHWAY PLANS

LOC. 1) FAP ROUTE 348: IL 43 NB (HARLEM AVE.)
OVER CN & MWRD (SLUDGE) RR (SN 016-0314)
LOC. 2) FAP ROUTE 358: TORRENCE AVE.
OVER GRAND CAL. RIVER (SN 016-0934)
SECTION: 2012-032 BR
PCC DECK BEAM SUPPORTS
COOK COUNTY
C-91-388-12

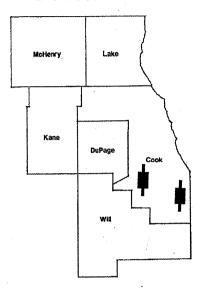
SEE LOCATION MAPS SHEETS 4 & 5

PROJECT ENGINEER ROBERT BORO (847) 705-4237
PROJECT MANAGER ISSAM RAYYAN

CONTRACT NO. 60T55

CONTRACT NO 60T55

D-91-388-12



LOCATION OF IMPROVEMENT INDICATED THUS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED:

MAY 3, 20 12

Diane M. O'Mufe

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Way 1 20 12

The D. Barana Oli, P. Land M. Comment

ENGINEER OF DESIGN AND ENVIRONMENT

20 12

William R. Frey 20

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 348 & 358	2012-032BR	COOK	10	2

CONTRACT NO 60T55

INDEX OF SHEETS

ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

2 INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES 701426 - 04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH 701606 - 08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 1-5 LOCATION MAPS 701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH MOUNTABLE MEDIAN 701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH MOUNTABLE MEDIAN 701601 - 07 TRAFFIC CONTROL DEVICES	1	TITLE SHEET	701301 <i>-04</i>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701606 - 08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 4 - 5 LOCATION MAPS 6 - 7 BRIDGE REPAIRS (SN 016-0314) LOCATION 1 701606 - 08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701606 - 08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701606 - 08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601 - 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN	2	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES	701426 <i>-04</i>	
4 – 5 LOCATION MAPS 701601 – 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601 – 07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN	3	SUMMARY OF QUANTITIES	701606 - <i>08</i>	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
6 - 7 BRIDGE REPAIRS (SN 016-0314) LOCATION 1 NONTRAVERSABLE MEDIAN	4 – 5	LOCATION MAPS	701601 <i> 0</i> 7	
8 - 9 BRIDGE REPAIRS (SN 016-0934) LOCATION 2 701901-02 TRAFFIC CONTROL DEVICES	6 - 7	BRIDGE REPAIRS (SN 016-0314) LOCATION 1		· ·
	8 - 9	BRIDGE REPAIRS (SN 016-0934) LOCATION 2	701901- <i>0</i> Z	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 VILLAGE OF FOREST VIEW.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 741- 4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

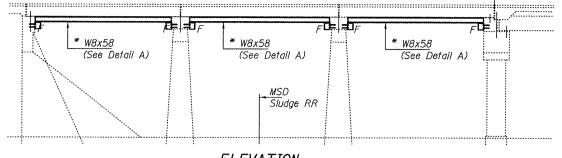
INDEX OF SHEETS
LIST OF STATE STANDARDS
GENERAL NOTES

10

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 348 & 358	2012-032BR	COOK	10	3

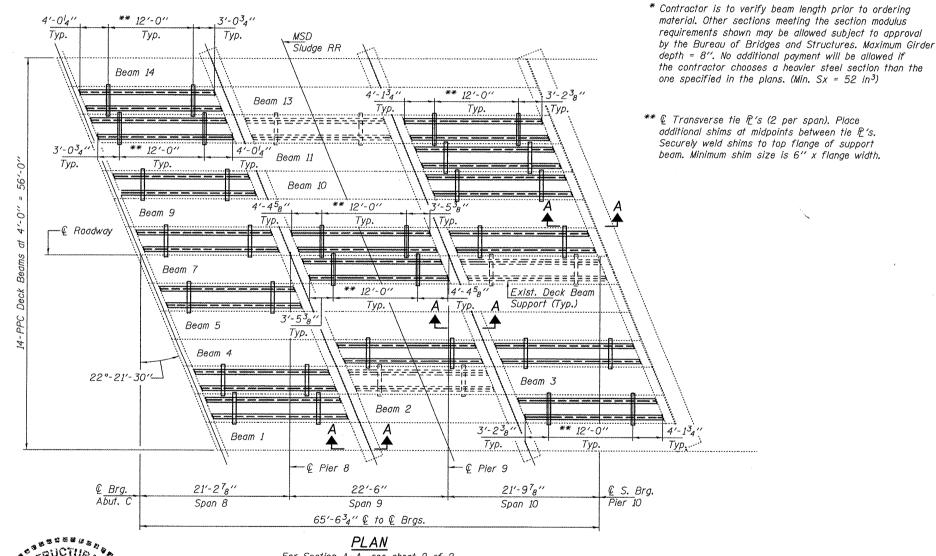
CONTRACT NO.: 60T55

SUN	MMARY OF QUANTITIES	ONSTRUCTI	ON TYPE CODE:	0014		CONTRACT NO.: 6015:
CODE NO.	ITEMS	UNITS	IRBAN 1007. STATE TOTAL QUANTITIES	LOC. 1 SN 016-0314	LOC. 2 SN 016-0934	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	50,240	41,830	16,410	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	•	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	0	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	25.7	25.7	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1	0	Rev . ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES



__Z__

ELEVATION



PLAN

For Section A-A, see sheet 2 of 2.

EXPIRES 11-30-2012

DAVID CARL. PUZEY 081-005470 SPRINGFIELD

ILLINOIS

DESIGNED VON RAM CHECKED Victor & Up fix DRAWN Kyle M. Steffen
CHECKED V.P

PASSED

MAY 22, 2012

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PLAN AND ELEVATION 016-0314

SHEET NO. 1 OF 2 SHEETS

SECTION COUNTY TOTAL SHEE COOK 10 6 CONTRACT NO. 60T55

ILLINOIS FED. AID PROJECT

GENERAL NOTES

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

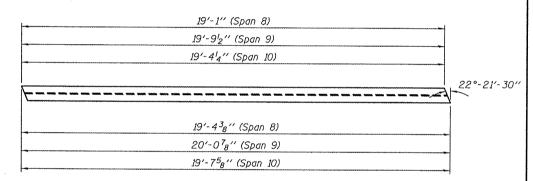
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods: Minimum embedment 9".

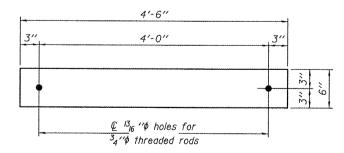
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.

The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel. The Contractor has the option of using used steel. See Special Provisions.



DETAIL A

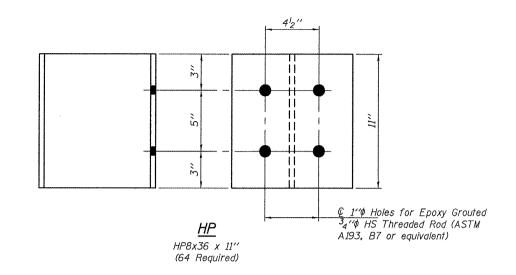
 $W8x58 \times 19'-4\frac{3}{8}'' (14 \text{ Req'd})$ $W8x58 \times 20'-0\frac{7}{8}'' (6 \text{ Req'd})$ $W8x58 \times 19'-7\frac{5}{8}'' (12 \text{ Req'd})$

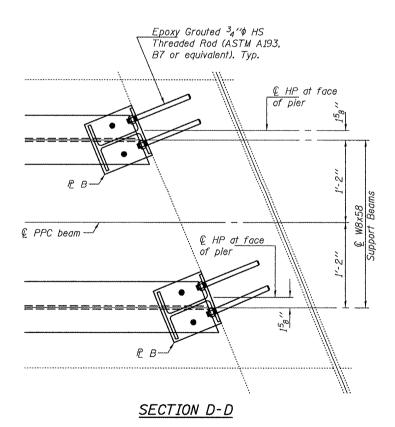


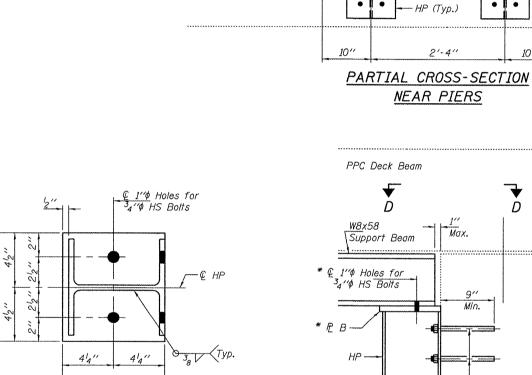
TRANSVERSE TIE PL'S P. A '2" x 4'-6" x 6" (32 Reg'd)

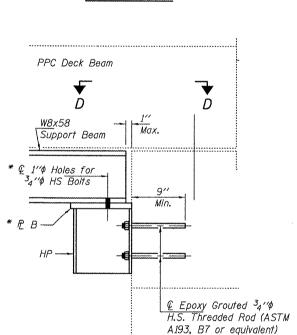
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	41,830









© Epoxy Grouted 34"\$ Threaded Rod

Transverse Tie P-

- P_B (Typ.)

Span 8; Beam 2, 3, 6, 8, 10, 12 & 13 Span 9; Beam 4, 7 & 8 Span 10; Beam 2, 4, 8, 10, 11 & 12

> Tack weld nut to repair P (Typ.) Shim as regʻd for tight fit.

(Typ.)

SECTION A-A

* Use holes in P B to field drill holes in Support Beam.

DESIGNED	<i>VP</i>		EXAMINED		In F	01/	DATE	MAY 22.	2012
CHECKED	VHV			ACTING ENGI	MEN OF STRUCTULE	RAL BERVICES	*******	MA1 22,	2012
DRAWN	Kyle M.	Steffen	PASSED	HETING ENGI	Carl King	U Y.			
CHECKED	VP	VHV		ACTING ENGINE	ER OF BRIDGES A				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

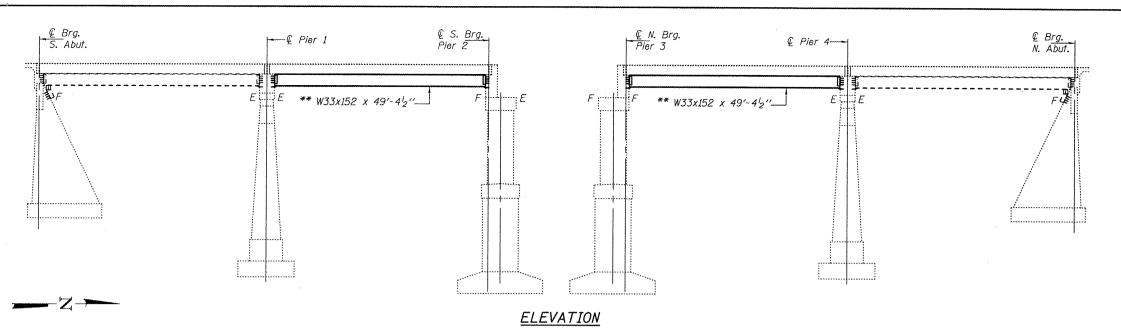
<u>PB</u>

P 1" x 812" x 9"

(64 Required)

REPAIR DETAILS SN 016-0314		SECTION	COUNTY	TOTAL	SHEET NO.
		2012-032BR	COOK	10	7
			CONTRACT	NO. 6	OT55
SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. AI			

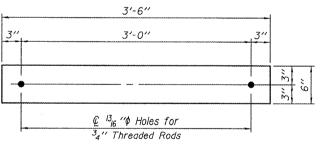
COUNTY TOTAL SHEET NO.



53'-5" Span 1 52'-0" Span 2 311'-3⁵8" Truss Span 3 52'-0" Span 4 53'-5" Span 5 © Brg. S. Abut. € N. Brg. Pier 3 © Brg. N. Abut. --- € Pier 1 @ Pier 4-* Transverse 10'-0", 11'-0" . 10'-0" . 11'-0" . 10'-0" 11'-0" , 10'-0" | * <u>Trans</u>verse 11'-0" Tie P's Tie P's Beam 1 Beam 2 Beam 2 Beam 6 Beam 8 Beam 8 Beam 9 Beam 9 Beam 11 & Roadway ----Beam 12 Beam 13 Ream 13 Beam 14 E===#====#===#===#===#===# Ream 16 Beam 17 # = = = # = = = # = = = # = = = = # ----Beam 19 Beam 19 Beam 20 Beam 20 Exist. Deck Beam

PLAN

- * © Transverse tie £'s (4 per span). Place additional shims at midpoints between tie £'s. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.
- ** Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 36". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans. (Min. Sx = 487 in 3)



TRANSVERSE TIE P.
P. '2" x 3'-6" x 6" (8 Req'd)

GENERAL NOTES

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

Support (Typ.)

DAVID CARL

PUZEY

081-005470

SPRINGFIELD

ILLINOIS

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.

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The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.

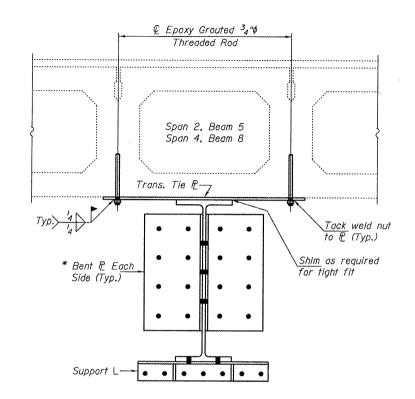
The Contractor has the option of using used steel. See Special Provisions.

re used at the times after the tracks of wheels and position. If necessary, shins shall be used under the

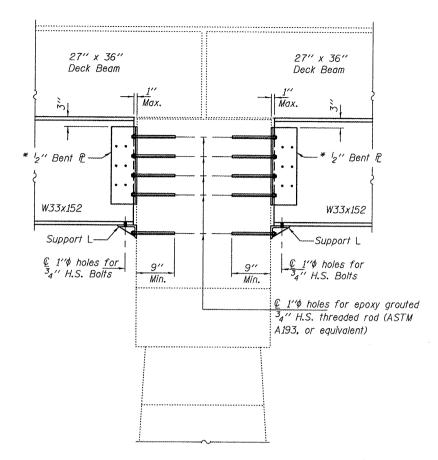
Eurojohing and Experime Chaustural Charl Down	
Furnishing and Erecting Structural Steel Poun	d 16,410

DAB DE Peli DESIGNED -COUNTY TOTAL SHEET NO.

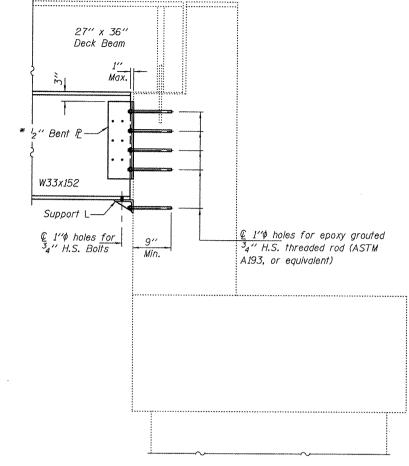
COOK 10 8 EXAMINED MAY 22, 2012 **GENERAL PLAN & ELEVATION** STATE OF ILLINOIS TORRENCE AVENUE OVER GRAND CALUMET RIVER 2012-032BR DRAWN - Kyle M. Steffen **DEPARTMENT OF TRANSPORTATION** SN 016-0934 CONTRACT NO. CHECKED - DAB VHV SHEET NO. 1 OF 2 SHEETS III INOIS FED. AID PROJECT



SECTION THRU SPAN 2, BEAM 5 & SPAN 4, BEAM 8

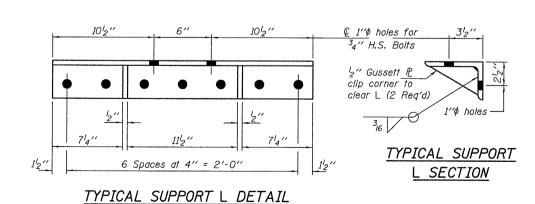


TYPICAL PIER 1 AND 4 SECTION

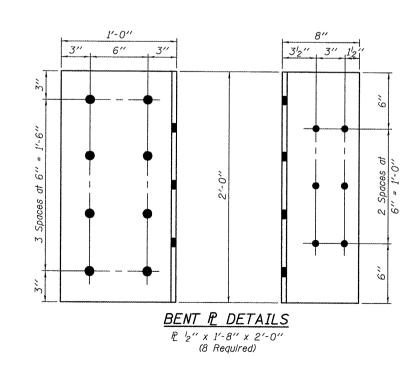


TYPICAL PIER 2 AND 3 SECTION

* Where necessary remove loose concrete in areas where Bent £'s are to be placed. Non-shrink grout shall be placed in order to ensure proper sitting of the bent £'s. Cost of loose concrete removal and grout is included in the cost of Furnishing and Erecting Structural Steel



 $L 8 \times 6 \times {}^{3}_{4} \times 2' - 3'' (4 \text{ Reg'd})$



DESIGNED - DAB EXAMINED TALL DATE WAY 22 2012							
CANADALE TAIL DATE - MAI 22, 2012		REPAIR DETAILS	F.A.P.	SECTION	COUNTY	TOTAL SI	HEET
CHECKED - VHV ACTING ENGINEER OF STRUCTURAL PERVICES	STATE OF ILLINOIS		KIE.			SHEETS	10.
DRAWN - Kyle M. Steffen PASSED Cal A	DEPARTMENT OF TRANSPORTATION	SN 016-0934	358	2012-032BR	COOK	10	9
CHECKED - DAB VHV ACTING ENGINEER OF DEPTHYLIPS	DEFARIMENT OF TRANSPORTATION				CONTRAC	T NO.	
ACTING ENGINEER OF BRIDGES AND STRUCTURES	<u> </u>	SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. A	ID PROJECT		

R 12 E R 13 E 38 43 CICERO 22ND BERWYN WEST CHESTER 26TH RIDGELAND ST. 26TH LAGRANGE 31ST BROOK WASHING- TON SIDE FIELD 50 PARK BROOK SWAN SOUTHVIEW ST. L YONS LA-GRANGE 43RD ST. 43<u>RU 3..</u> 44TH ST. Z 47TH 38 47TH (171)ARCHER <u>5</u>5TH TLĪMĪTS 55TH 63RD ST. SUMMIT 155 BRIDGE VIEW • BURBANK

TRAFFIC DATA

2009 ADT = 38,000 POSTED SPEED LIMIT = 40 MPH

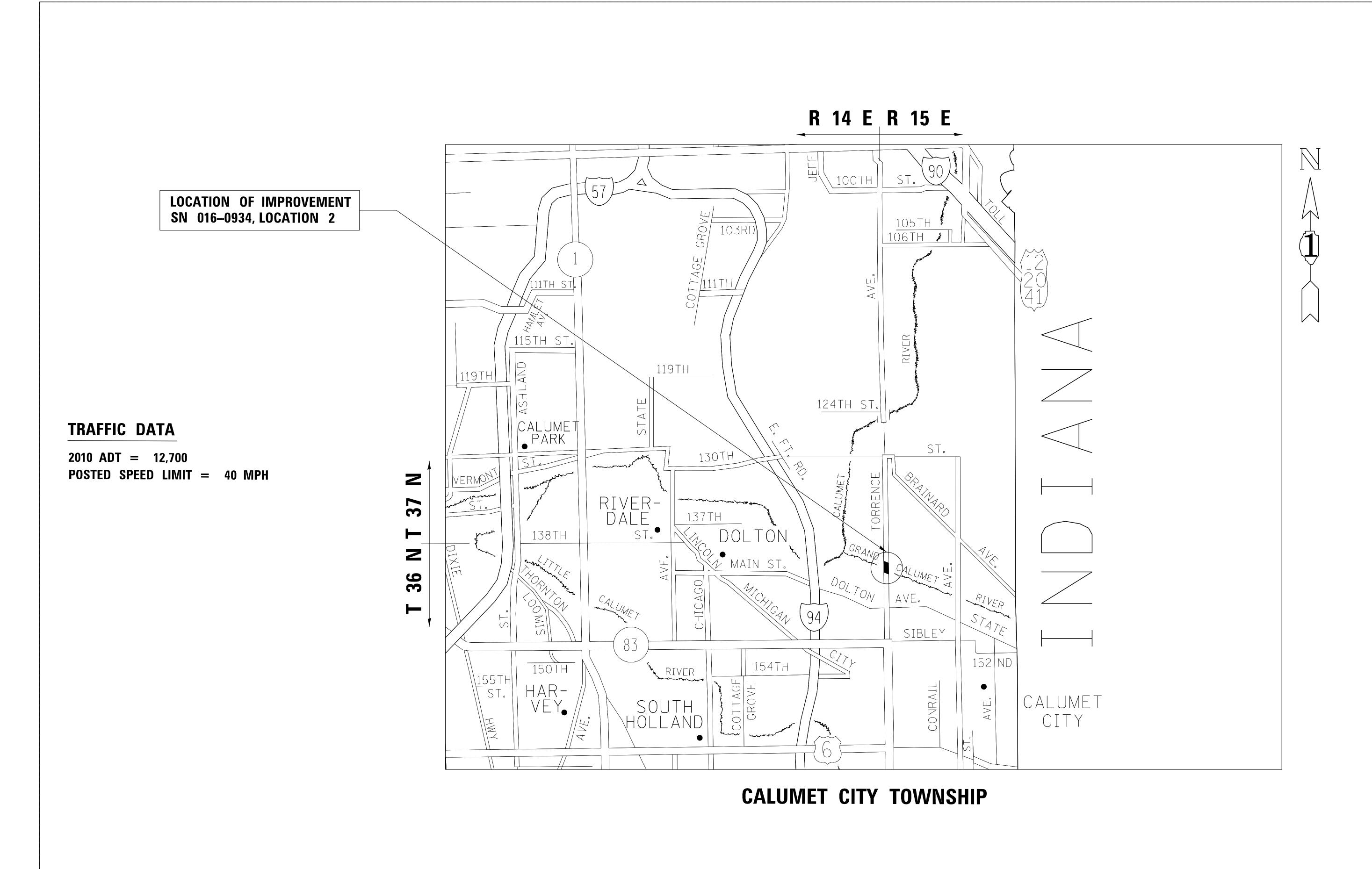
STICKNEY TOWNSHIP

* = FAP 348 & 358

LOCATION OF IMPROVEMENT

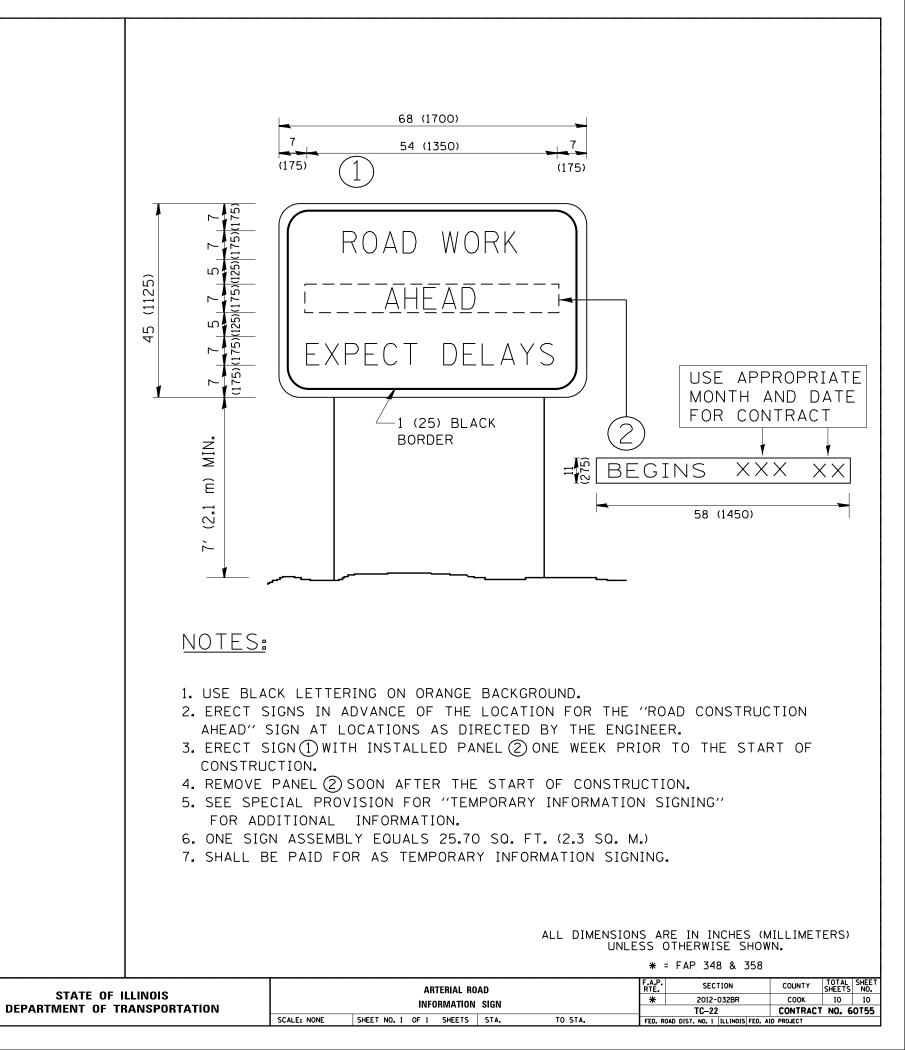
SN 016-0314, LOCATION 1

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -			10	CATION I	MAP (SN	J 016_031	ΙΔ)	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\pyrzanowskirb\d028349	\D162511-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	IL 43 NB (HARLEM AVE.) OVER SN & MWRD (SLUDGE) RR				'	*	2012-032BR	соок	10	4	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					KD (SLUDGE) KK			CONTRAC	CT NO. 6	0155	
	PLOT DATE = 5/4/2012	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED	. AID PROJECT		



* = FAP 348 & 358

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -			L	OCATION	MAP (S	N 016-093	34)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\pyrzanowskirb\c	10283496\D162511-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				•		•	*	2012-032BR	СООК	10 5
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TUKKENU	E AVE. U	EK GKAI	ND CALUN	VIET RIVER	1111		CONTRA	CT NO. 60T55
	PLOT DATE = 5/3/2012	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED	. AID PROJECT	



DESIGNED

DRAWN

DATE

CHECKED

USER NAME = pyrzanowskirb

PLOT DATE = 5/4/2012

LOT SCALE = 100.0000 '/ in.

)ıstStd.dan

REVISED - R. MIRS 09-15-97

REVISED - R. MIRS 12-11-97

REVISED -T. RAMMACHER 02-02-99

REVISED - C. JUCIUS 01-31-07