

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

**VARIOUS ROUTES  
D3 HWY DAMAGE REPAIR CBL FY 17  
VARIOUS COUNTIES**

C-93-071-16

REPAIRING MOTORIST CAUSED DAMAGE TO HTCMB

INDEX OF SHEETS

- 1 COVER SHEET
- 2 STANDARDS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 HTC CABLE TENSION CHARTS & LOG

HIGHWAY STANDARDS

SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS \_\_\_\_\_

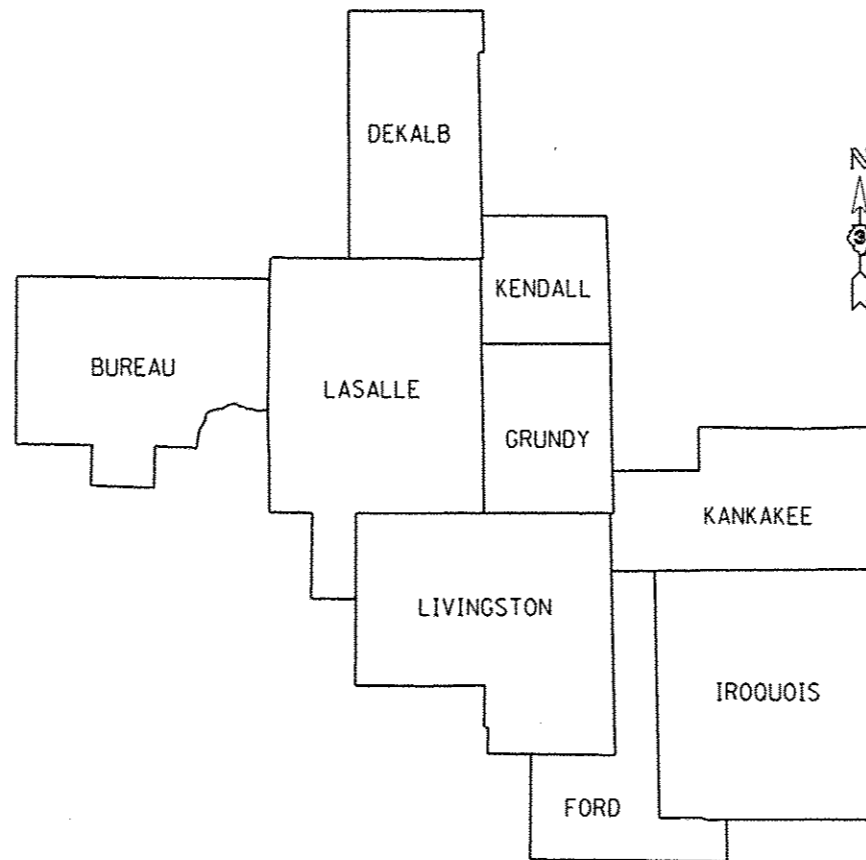
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

SAFETY AND CLAIMS MANAGER : KRIS FOGARTY

UNIT CHIEF : PAT BRABOY, P.E.

DISTRICT 3 NO. (815) 434-6131

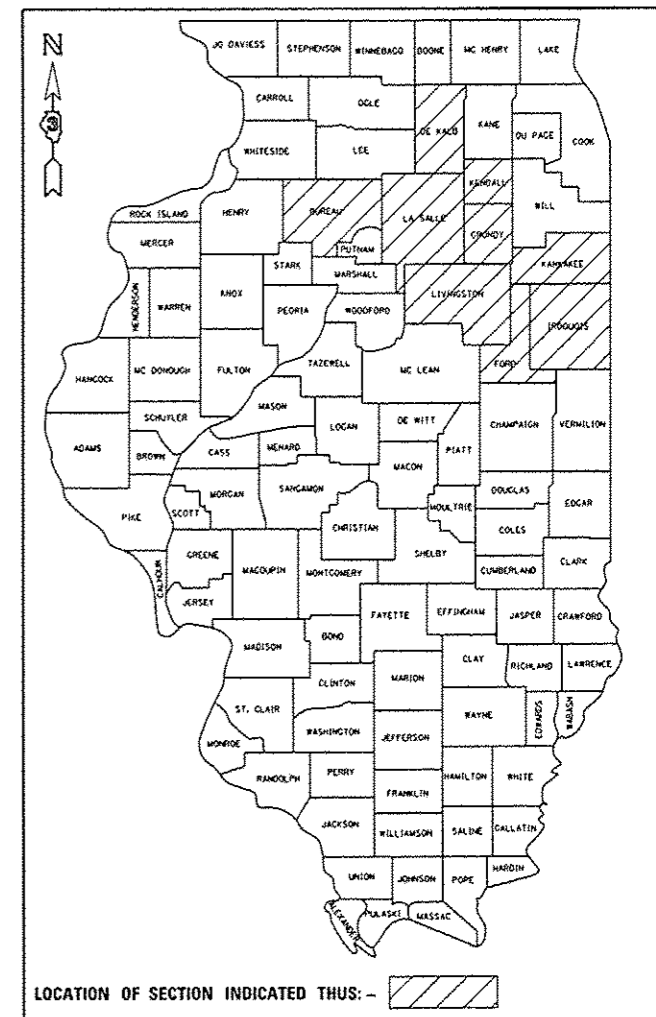
CONTRACT NO. 66F38



LOCATION MAP  
NOT TO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	4	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 66F38		
* D3 HWY DAMAGE REPAIR CBL FY 17				

D-93-005-16



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 2016  
Paul Coetzee  
REGIONAL ENGINEER

May 6 2016  
Moumen M. Addis, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

May 6 2016  
Michelle A. [Signature]  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-10	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-07	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-03	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-03	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-05	TRAFFIC CONTROL DEVICES
725001	OBJECT AND TERMINAL MARKERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION: \_\_\_\_\_

INSPECTORS: \_\_\_\_\_

**GENERAL NOTES**

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR IS ADVISED THAT THERE MAYBE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR IS REMINDED TO CAREFULLY EXAMINE THIS CONTRACT FOR NEW OR CHANGED CONDITIONS FROM ANY PREVIOUS VERSION HE MAY HAVE EXAMINED.

THE REMOVAL OF DAMAGED HIGH-TENSION CABLE AND DAMAGED POSTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS REPLACEMENT PAY ITEMS.

THE TRAFFIC CONTROL REQUIRED FOR THE REPAIRS OR INSTALLATION OF HIGH-TENSION CABLE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK, AND SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS INCLUDED HEREIN.

ALL HARDWARE (NUTS, BOLTS, WASHERS, STAPLES, WIRES, TIES, ETC.) REQUIRED FOR THE REPAIRS TO OR INSTALLATION OF HIGH-TENSION CABLE AND FENCE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK IN THIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

**HIGH TENSION CABLE BARRIER SYSTEM REPAIR SCHEDULE**

LOCATION / COUNTY / SYSTEM	SYSTEM TYPE	REPAIR	REPLACE	HTC SYSTEM	REMOVE &	REMOVE &	F&I HTC	FURNISH & DRIVE	CONTACT PERSON
		HTC	HTC	MAINTENANCE	REPLACE	REPLACE	FOUNDATION	METAL SOCKET	
			END SECTION		HTC POST	HTC POST (HD)	& POST	with POST	
I-55, MP 227-233 / GRUNDY / BRIFEN	SOCKETED	1	2	3	4		6	7	Richard Butler (904)260-8684
I-55, MP 227-216 / GRUNDY & LIVINGSTON / GIBLALTAR	DRIVEN	1	2	3	4				Mike Winters (888)447-7263
I-55, MP 207-210.5 / GRUNDY / GIBLALTAR	DRIVEN	1	2	3	4				Mike Winters (888)447-7263
I-57, MP 324-316 / KANKAKEE / GIBLALTAR	DRIVEN	1	2	3	4				Mike Winters (888)447-7263
I-57, MP 292-277 / IROQUOIS / NUCOR	DRIVEN	1	2	3	4				Jeremy Knerndschield (913)744-8054
I-80, MP 105-97 / LASALLE & GRUNDY / TRINITY	DRIVEN ( HD )	1	2	3		5			Richard Fligiewicz (847)392-4611
I-80, MP 92-81 / LASALLE / TRINITY	DRIVEN ( HD )	1	2	3		5			David Kelly (800)527-6050 ext 88849

TABLE SHOWS EACH SYSTEM AND IT'S CORRESPONDING PAY ITEMS

**REPAIR PAY ITEMS**

- 1 = REPAIR HIGH TENSION CABLE
- 2 = REPLACE HIGH TENSION CABLE END SECTION
- 3 = HIGH TENSION CABLE SYSTEM MAINTENANCE
- 4 = REMOVE AND REPLACE HIGH TENSION CABLE POST
- 5 = REMOVE AND REPLACE HIGH TENSION CABLE POST (HEAVY DUTY)
- 6 = FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST
- 7 = FURNISH AND DRIVE METAL SOCKET WITH POST

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: Tom Benoit  
DISTRICT STUDIES & PLANS ENGINEER

DATE: March 21, 2016

EXAMINED BY: Wahid  
DISTRICT CONSTRUCTION ENGINEER

Wahid  
DISTRICT MATERIALS ENGINEER

Praveen  
DISTRICT OPERATIONS ENGINEER

\* 03 HWY DAMAGE REPAIR CBL FY 17

FILE NAME *	USER NAME * santiagoct	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pl\11L084EBIDINTEG\Illinois.gov\PW1001\02	sumants\DOT Offices\District 3\Projects\036	FDRAWNOData\B3xxxxx-shr-cover.dgn	REVISED -		VAR.	*	VAR.	4	2	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: _____ SHEET NO. ____ OF ____ SHEETS		STA. _____ TO STA. _____		CONTRACT NO. 66F38	
	PLOT DATE = 3/21/2016	DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				HTC BARRIER 100% MCHD ROADWAY	HTC BARRIER 100% STATE ROADWAY
				0021 07M0	0021 07A0
X0327278	REPAIR HIGH TENSION CABLE	FOOT	450	200	250
X0327279	REPLACE HIGH TENSION CABLE END SECTION	EACH	2	2	
X0327281	REMOVE AND REPLACE HIGH TENSION CABLE POST	EACH	650	400	250
X0327282	REMOVE AND REPLACE HTC POST (HEAVY DUTY)	EACH	450	150	300
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	75	15	60
Z0029657	HIGH TENSION CABLE SYSTEM MAINTENANCE	EACH	700	200	500
Z0029659	FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST	EACH	2	2	
Z0029660	FURNISH AND DRIVE METAL SOCKET WITH POST	EACH	20	10	10

*QWT: MCHD*

\* D3 HWY DAMAGE REPAIR CBL FY 17

FILE NAME =	USER NAME = santigodt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084E810\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\036-DRAWING\data\03xxxx\ahs-cover.dgn	DRAWN	REVISED	VAR.			*	VARIES	4	3	
PLOT SCALE = 100.0000" / 1"	CHECKED -	REVISED -	CONTRACT NO. 66F38							
Default	PLOT DATE = 3/21/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____						



Illinois Department of Transportation

TENSION LOG SHEET FOR High Tension Cable Barrier

System table with rows for Brifen, USHTCS (Nucor), Gibraltar, and Trinity (CASS)

Date / Time: \_\_\_\_\_

Contract / Work Order No. \_\_\_\_\_

County: \_\_\_\_\_

Route: \_\_\_\_\_

Milepost/ GPS: \_\_\_\_\_

Ambient Temp: \_\_\_\_\_

Rope Temp: \_\_\_\_\_

Table with columns: 3 or 4 Cable System, Location 1 Actual Load, Location 2 Actual Load, Location 3 Actual Load, Average Load, Design Load

Note: Readings should be taken at 3 separate places along each cable, moving the tension meter at least 4" between readings. The average load is compared to design load for tolerance.

Number of splices made to the cable: \_\_\_\_\_

Were tensioning adjustments made to the cable: \_\_\_\_\_

Is 1" (minimum) of thread exposed in all turnbuckle windows: \_\_\_\_\_

Splice Type & Location (s): \_\_\_\_\_

Testing Equipment Used: \_\_\_\_\_

Printed Name & Signature of Tester: \_\_\_\_\_

Other Notes: \_\_\_\_\_

IDOT Inspector Initials (if Present): \_\_\_\_\_

TRINITY CABLE TENSIONS

Table with columns: TEMPERATURE, PRE-STRETCHED CABLE TENSION, STANDARD CABLE TENSION

TOLERANCE: -200 TO +800 POUNDS

NUCOR CABLE TENSION

Table with columns: CABLE TEMPERATURE, INITIAL TENSION, EXPECTED TENSION

TENSION CHECK REQUIREMENTS

CHECKING AND CORRECTING THE TENSION IN EACH CABLE SHALL BE PERFORMED EACH TIME A CABLE IS SPICED AND HTC SYSTEM MAINTENANCE IS SPECIFIED.

BRIFEN CABLE TENSIONS

Table with columns: ROPE TEMPERATURE, TENSION

GIBRALTAR CABLE TENSIONS

Table with columns: CABLE TEMPERATURE, CABLE TENSION

\* D3 HWY DAMAGE REPAIR CBL FY 17

Metadata table with fields: FILE NAME, USER NAME, DESIGNED, REVISED, CHECKED, DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

HTC CABLE TENSION CHARTS & LOGS

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

Table with columns: F.A. RTE., SECTION, COUNTY, VARIES, TOTAL SHEETS, SHEET NO., CONTRACT NO.