

# CHICAGO CENTRAL & PACIFIC RAILROAD COMPANY

A WHOLLY OWNED SUBSIDIARY OF  
CANADIAN NATIONAL RAILWAY COMPANY

## HIGHWAY/RAIL GRADE CROSSING SIGNAL ESTIMATE

Roadway Name: Engel Road  
Nearest Station: Burlington, IL  
Railroad Division: Central  
Railroad Subdivision: Freeport  
Railroad Milepost: W 54.82  
DOT Crossing No.: 289 939V  
Valuation Section: IL-2

Date: March 28, 2006

Est 1015-601

Prepared by: WCR

Description of Work: Signal work to install FLS & Gates.

### MATERIAL:

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Landfill	1	LOT	\$1,000.00	\$ 1,000.00
Insulated Joint	2	EACH	\$1,200.00	\$ 2,400.00
Misc. Signal Material	1	LOT	\$500.00	\$ 500.00
<u>CROSSING MATERIALS PACKAGE</u>				
GCP4000, 8110-80465-00280	1	EACH	\$19,148.00	\$ 19,148.00
Narrow Band Shunt, 62775-1543	2	EACH	\$533.00	\$ 1,066.00
Rectifier, NRS 15110, 20A	2	EACH	\$446.00	\$ 892.00
Rectifier, NRS 18120, 40A	1	EACH	\$645.00	\$ 645.00
Intelligent Current Sensor, 80271	2	EACH	\$470.00	\$ 940.00
FLX-4000 & Gate Assembly, 2-Way	2	EACH	\$7,160.00	\$ 14,320.00
Arm, E-Z Gate, 16-24'	2	EACH	\$569.00	\$ 1,138.00
Gatekeeper, SK-1000	2	EACH	\$1,975.00	\$ 3,950.00
Bell, Electronic	1	EACH	\$235.00	\$ 235.00
Battery, Ni-Cad, 250 AH	29	EACH	\$250.00	\$ 7,250.00
Foundation, S-2	2	EACH	\$410.00	\$ 820.00
Enclosure, Shunt	2	EACH	\$588.00	\$ 1,176.00
Pre-Wired Aluminum Bungalow, 6X6'	1	EACH	\$13,450.00	\$ 13,450.00
Bungalow, Intmdt, w/B-B Signals	1	EACH	\$8,600.00	\$ 8,600.00
Wire, 2c/6, T10456	400	FEET	\$0.59	\$ 236.00
Cable, 3c/6 TECK, T10458	3000	FEET	\$2.12	\$ 6,360.00
Cable, 7c/6,9c/14, T12481	300	FEET	\$3.70	\$ 1,110.00
SUBTOTAL MATERIAL				=====
				\$ 85,236.00

Engel Road  
Burlington, IL

Est 1015-601

LABOR:

SIGNAL LABOR

<u>Item</u>	<u>Gang Days</u>	<u>Cost/Day</u>	<u>Cost</u>
5-man Gang	12	1200.00	\$ 14,400.00
SUBTOTAL SIGNAL LABOR			\$ 14,400.00

MISCELLANEOUS LABOR

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Preliminary Engineering	1	L.S.	\$2,500.00	\$ 2,500.00
Construction Engineering	1	L.S.	\$275.00	\$ 275.00
Accounting	1	L.S.	\$300.00	\$ 300.00
SUBTOTAL MISCELLANEOUS LABOR				\$ 3,075.00

TOTAL LABOR

\$ 17,475.00

OTHER

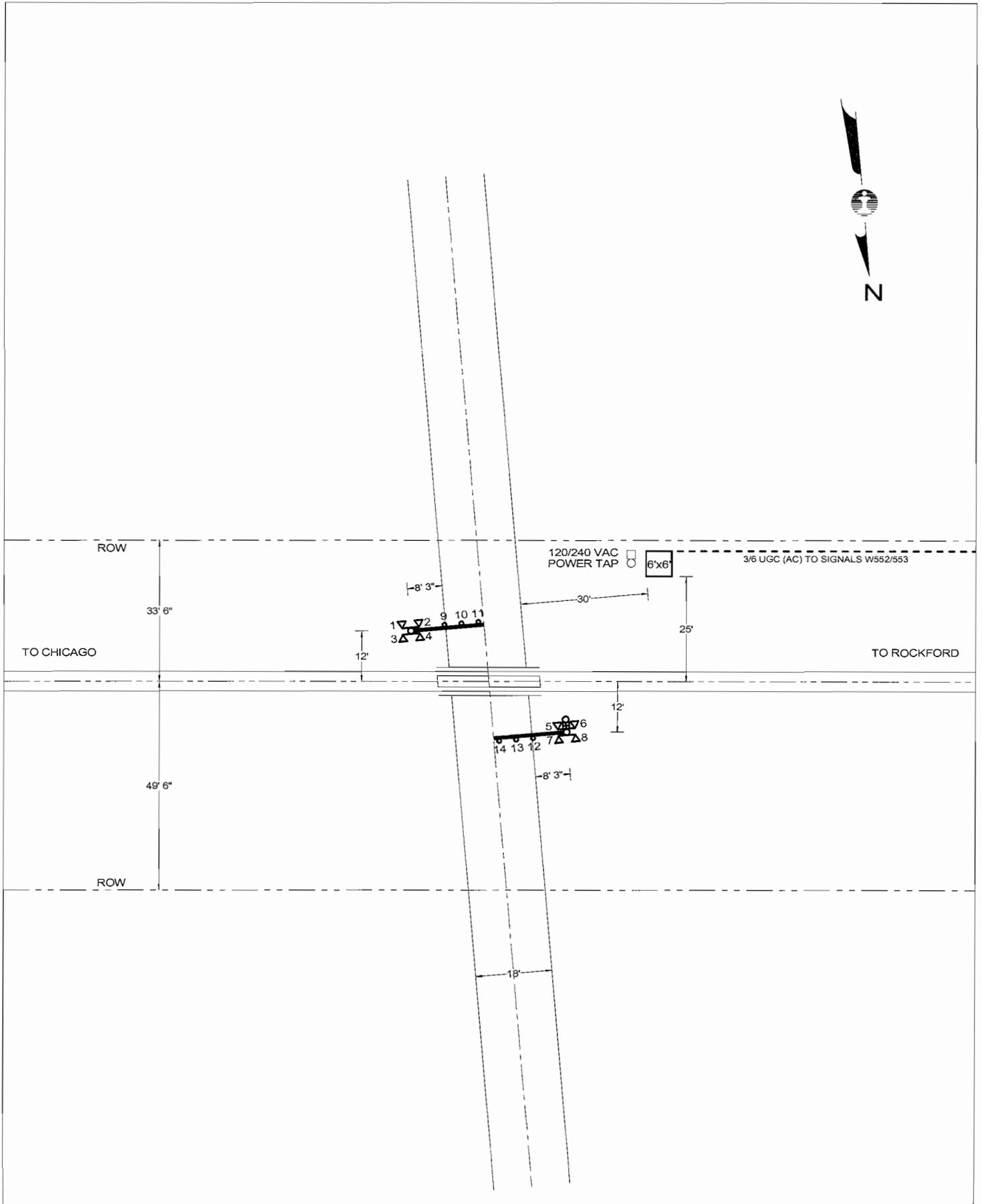
<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Per Diem/Business Expense	1	L.S.	3000.00	\$ 3,000.00
Contractor/Rented Equipment	1	L.S.	2400.00	\$ 2,400.00
Power Tap	1	L.S.	1500.00	\$ 1,500.00
Contract-Crossing System Wiring	1	L.S.	6000.00	\$ 6,000.00
Freight on Crossing Package	1	L.S.	3300.00	\$ 3,300.00
Contract Engineering	1	L.S.	6000.00	\$ 6,000.00
TOTAL OTHER				\$ 22,200.00

TOTAL DIRECT COSTS

\$ 124,911.00

FAPG ADDITIVES

Material	\$ 85,236.00	
Material Additive ( 4.20%)		\$ 3,579.91
Signal Labor	\$ 14,400.00	
Signal Labor Additive ( 80.89%)		\$ 11,648.16
Engineering Labor	\$ 2,775.00	
Engineering Labor Additive ( 85.26%)		\$ 2,365.97
Accounting Labor	\$ 300.00	
Accounting Labor Additive ( 65.89%)		\$ 197.67
Other	\$ 22,200.00	
	=====	=====
TOTAL DIRECT COSTS	\$ 124,911.00	
TOTAL FAPG ADDITIVES		\$ 17,791.71
		=====
GRAND TOTAL FAPG BASIS		\$ 142,702.71



**PROPOSED**  
FEB 28, 2006

QUADRANT	SE	NW	<b>SIGNALS &amp; COMMUNICATIONS, ENGINEERING DEPARTMENT</b>		
STANDARD AFLS	LED	LED	CITY & STATE		SD 1015 X
CANTILEVER, FT.	-	-	BURLINGTON, IL		
GATE, FT.	17	17	CROSSING		DATE
ADDED LIGHTS	-	-	ENGEL ROAD		FEB 28, 2006
BARRICADE	-	-	CCP - 54.82-W	DOT - 289 939V	
MULTI-TK SIGN	-	-	MIDWEST DIVISION		FREEPORT SUBDIVISION
BELL	-	X	IN SERVICE		SCALE
REVISIONS					1"=30'
E:\DWG\FRE\05482X.CAD			DRAWN BY		AVS

SD 10115 - MP 54 TO 55

PLANK RD

2566'-25 SEC CWT/MIN 20 SEC @ 50 MPH

GCP 4000



MF - 285 HZ  
II - 8.3 KHZ

PROPOSED

FEB 28, 2008

ENGEL RD.  
CCP - 54.82-W  
DOT - 289 938V  
SEE DETAIL

PVT  
CCP - 54.20-W  
DOT - 289 938N

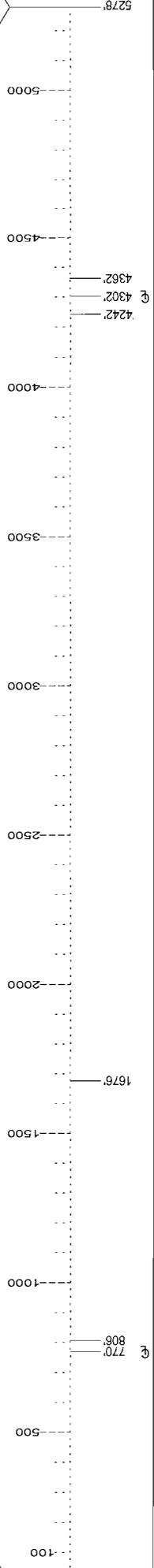
285 HZ

348 HZ

3/6 UCC-AC

54

55

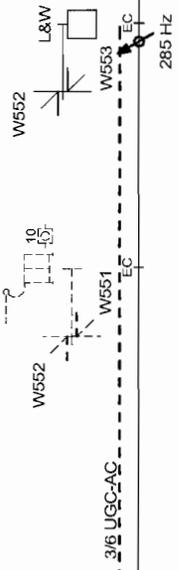


DRAWING SCALE 1" = 50'

2566'-25 SEC CWT/MIN 20 SEC @ 50 MPH  
ENGEL RD

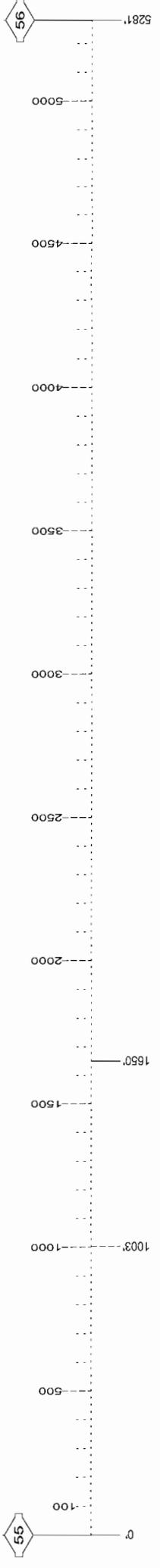
BP-W532  
BL-10,836'  
BD-11,323'

BP-W532  
BL-11,483'  
BD-10,676'

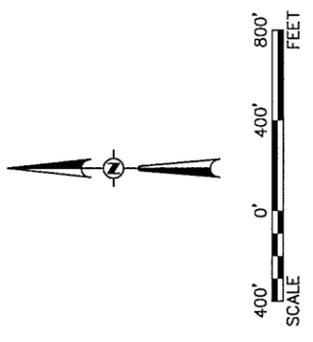
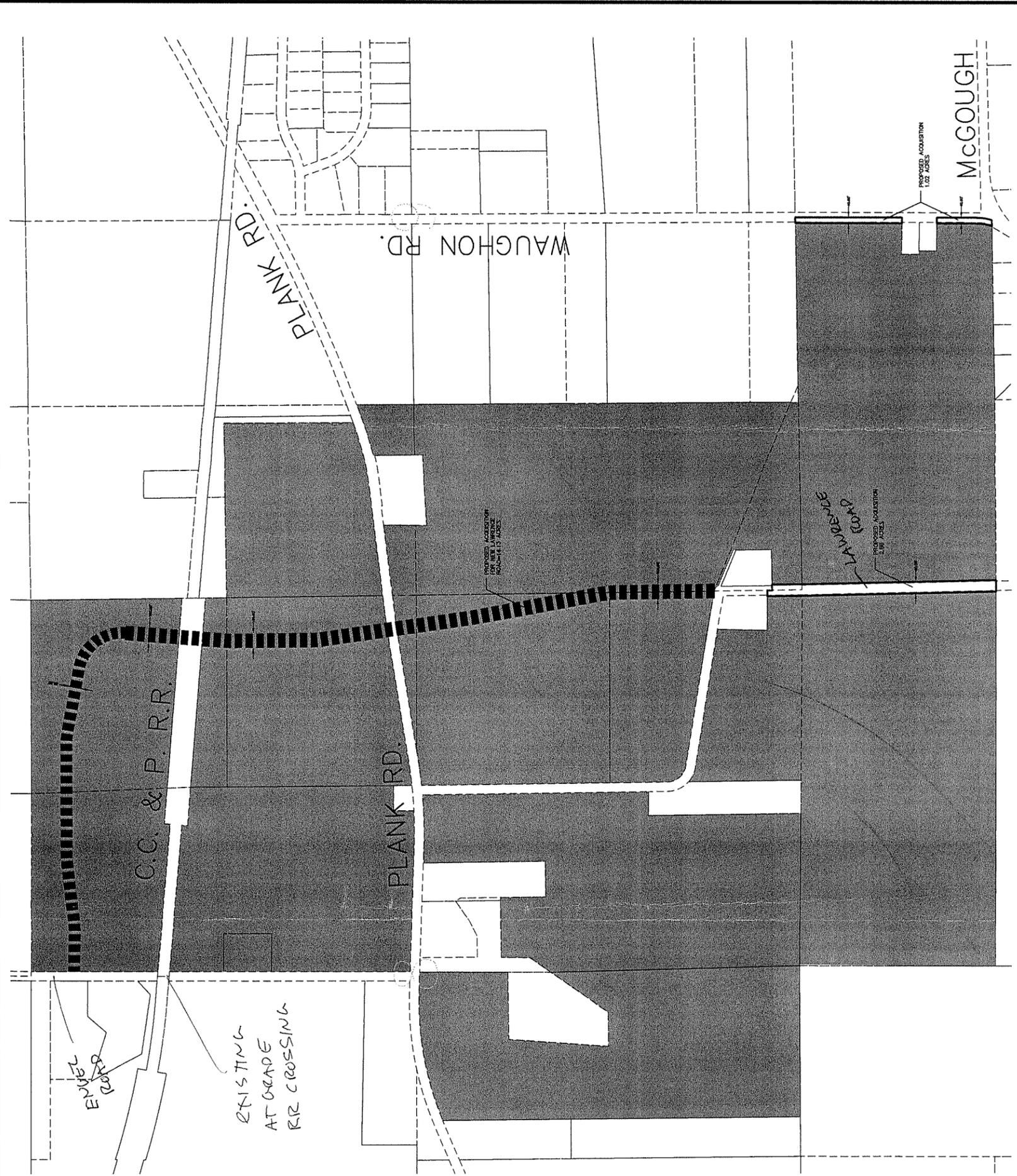


BP-W573  
BL-11,323'  
BD-10,836'

BP-W573  
BL-10,676'  
BD-11,483'



**EXHIBIT C - Future Engel Road Realignment  
SA 1208**



**Exhibit "E-2"**

DATE	FEB, 2007
PROJ. NO.	BU0703
FILE NO.	BU0700040
SHEET	1 of 1

EXHIBIT OF LAWRENCE ROAD  
RIGHT OF WAY AND  
REALIGNMENT PARCELS

COUNTRY CREEK SOUTH  
VILLAGE OF BURLINGTON  
KANE COUNTY, ILLINOIS

NO.	DATE	REVISIONS
1	6-29-06	OMITTED R.O.W. FROM 04-10-400-005

Bar represents 1" at  
Full scale. Percentage  
scale. Percentage  
to 1" to be applied  
to stated scales.

VILLAGE OF BURLINGTON  
175 WATER STREET, P.O. BOX 205  
BURLINGTON,  
KANE COUNTY, ILLINOIS 60109-0205

**Engineering Enterprises, Inc.**  
Consulting Engineers  
52 Wheeler Road  
Sugar Grove, Illinois 60554 630/466-9350



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**ILLINOIS COMMERCE COMMISSION  
TRANSPORTATION DIVISION / RAIL SAFETY SECTION**

**PROJECT STATUS REPORT:**

**TYPE:** (CHECK ONE)

PROGRESS	<input type="checkbox"/>
COMPLETION*	<input type="checkbox"/>

DATE	<input type="text"/>
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**PROJECT INFORMATION:**

Reporting Party:	Chicago, Central, and Pacific Railroad Company
Docket/Order #; Date:	
Status Reports Due:	
Ordered Completion Date:	
Completion Report Due <sup>1</sup> :	
AAR/DOT#, Milepost:	#289 939V, railroad milepost 54.82
(in/near) City, County:	In Village of Burlington, Kane County
Railroad Company:	Chicago, Central, and Pacific Railroad Company

<sup>1</sup>Completion reports involving changes to the railroad crossing must include an updated USDOT Inventory Form.

**PROJECT MANAGER INFORMATION<sup>2</sup>:**

Name:	
Title:	
Representing:	
Street Address:	
City, State, Zip:	
Office Phone:	
Office Fax:	
Cellular Phone:	
E-Mail Address:	

<sup>2</sup>Project Manager Information to be submitted by Railroad Company

**DESCRIPTION OF IMPROVEMENT(S) ORDERED:**

Install new automatic flashing light signals and gates with a bell, controlled by constant warning time circuitry, and equipped with an event recorder and a remote monitoring system. Add Temporary Stop Signs.

**STATUS OF WORK:**

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**ILLINOIS COMMERCE COMMISSION  
TRANSPORTATION DIVISION / RAIL SAFETY SECTION**

Mail directed to the **Rail Safety Section** or the **Director of Processing and Information**, Transportation Bureau of the Commission should be addressed to:

The Illinois Commerce Commission  
527 East Capitol Avenue  
Springfield, IL 62701-1827

If you have questions contact:

Brian Vercruysse, Senior Railroad Safety Specialist  
Phone: (630) 424-8750  
Email: [bvercruy@icc.illinois.gov](mailto:bvercruy@icc.illinois.gov)

A **Form 3** can be obtained from the Illinois Commerce Commission by calling 217/782-7660 or on the web at:

<http://www.icc.illinois.gov/hq/library.aspx?key=Railroad%20Safety>

**United States Department of Transportation Inventory Form #6180.71** can be obtained on the web at:

<http://safetydata.fra.dot.gov/OfficeofSafety/Forms/Default.asp>

Submit Inventory forms to:

Federal Railroad Administration Office of Safety 1120 Vermont Avenue, NW Washington, DC 20590	<b><u>And</u></b>	Chief of Data Services Illinois Department of Transportation 2300 S. Dirksen Parkway Springfield, IL 62764
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