

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	2Y-1TS-8	WINNEBAGO	2	1

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

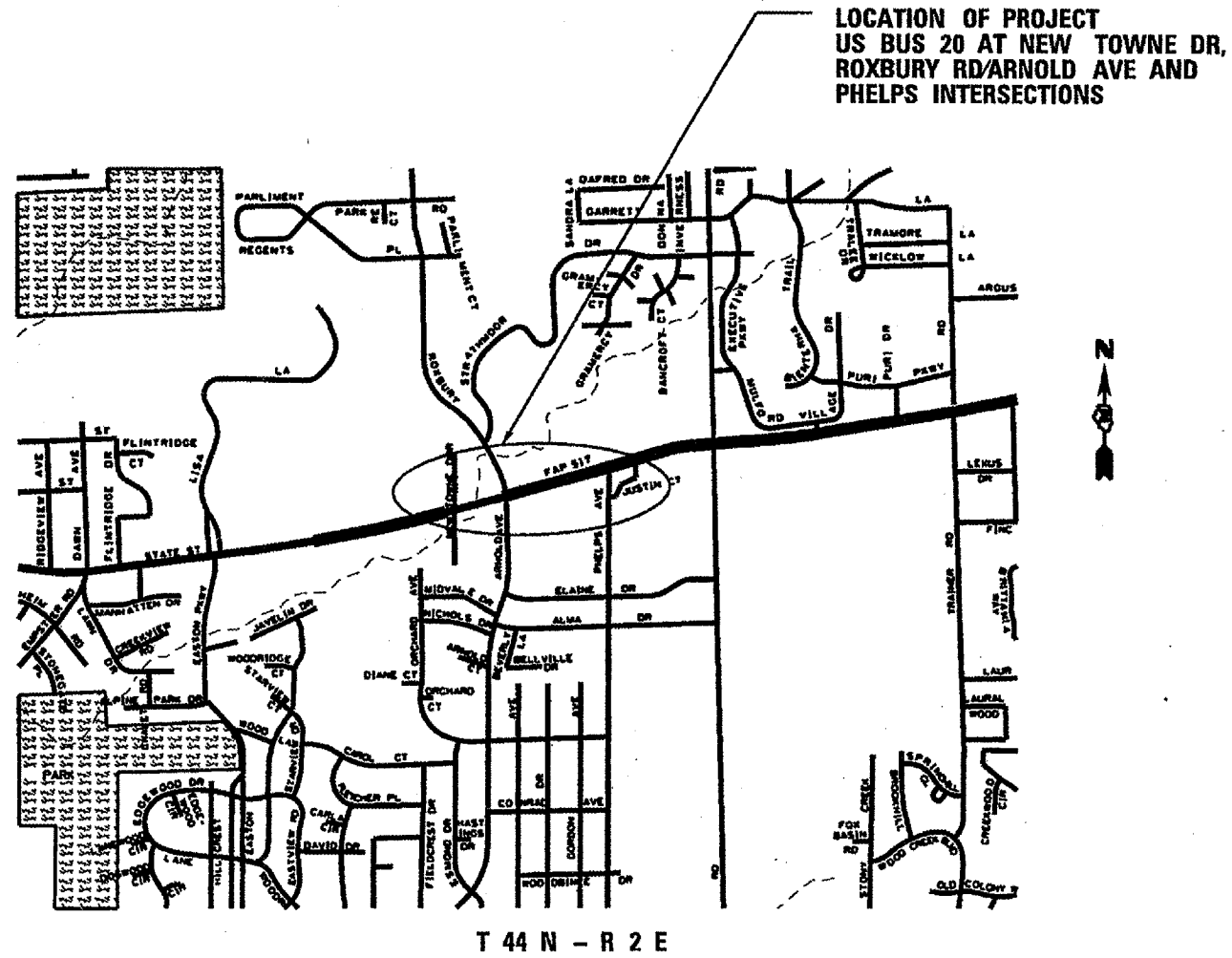
# PLANS FOR PROPOSED TRAFFIC SIGNAL MODIFICATION

C-92-056-07  
 D-92-028-07

- INDEX OF SHEETS
- COVER SHEET
  - STANDARDS
  - SUMMARY OF QUANTITIES
  - UTILITIES
  - SIGN DETAILS
  - US 20 BUS AT NEW TOWNE DETAILS
  - US 20 BUS AT ARNOLD AVE/ROXBURY RD DETAILS
  - US 20 BUS AT PHELPS AVE
  - US 20 BUS PHELPS SVE TEMPORARY
  - CABINET DETAILS

FAP 517 ROUTE US 20 BUS  
 SECTION (2Y-1)TS-8  
 PROJECT HSIP-0517 (054)  
 WINNEBAGO COUNTY

- STANDARD
- 000001-04
  - 701006-02
  - 701301-02
  - 701501-03
  - 701311-02
  - 701701-04
  - 701606-04
  - 702001-06
  - 857001
  - 873001-01
  - 877011-02
  - 878001-05
  - 880006
  - 701701-02



REGION 2/DISTRICT 2  
 DIXON, ILLINOIS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

March 23, 2007  
 Eric E. Haran, P.E.  
 Interim ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2007  
 Milton R. Sees, P.E.  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

SUBMITTED Feb. 15, 2007  
 Joseph E. Crowe  
 DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENG.

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 OF THE STATE OF ILLINOIS

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

CONTRACT NO. 64C90

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
..512..	..02Y-HTS-A..	..MINNEBAGO..	..2..
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

←————→ URBAN  
Y031-IF

Summary of Quantities for US BUS 20 @ NEW TOWNE, ARNOLD/ROXBURY AND PHELPS						90% FED 10% STATE
PAY CODE	ITEM	UNIT	NEW TOWNE	ARNOLD/ ROXBURY	PHELPS	TOTAL
67100100	MOBILIZATION	L SUM	0.15	0.15	0.7	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.15	0.15	0.7	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.15	0.15	0.7	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.15	0.15	0.7	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.15	0.15	0.7	1
* 72000100	SIGN PANEL - TYPE 1	50 FT	30	30	30	90
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	0	0	860	860
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	0	0	3	3
82500605	LIGHTING CONTROLLER PHOTOCCELL RELAY	EACH	0	0	1	1
85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	L SUM	0.15	0.15	0.7	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	0	0	1	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	0	0	1235	1235
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	0	0	855	855
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2	1	1	4
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	0	1	0	1
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	0	0	1	1
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	0	0	1	1
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	0	0	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6	6	3	15
87800415	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	0	0	43	43
87900100	DRILL EXISTING FOUNDATION	EACH	0	0	5	5
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2	0	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2	2	0	4

\* SPECIALTY ITEM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DRAWN BY CHECKED BY

SCALE: VERT.  
HORIZ.  
DATE

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 USER NAME: jh111

F.A.R. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..SUT..	..127-H1A-B..	..MINNEBAGO..	..9..	..3..
SFA	TO SFA			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

←————→ URBAN Y031-1F

Summary of Quantities for US BUS 20 @ NEW TOWNE, ARNOLD/ROXBURY AND PHELPS CONTINUED						
PAY CODE	ITEM	UNIT	NEW TOWNE	ARNOLD/ ROXBURY	PHELPS	90% FED 10% STATE TOTAL
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	1	0	3
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	2	2	0	4
88500500	INDUCTIVE LOOP DETECTOR AMPLIFIER	EACH	0	0	8	8
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2	4	1	7
89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	0	0	1	1
89502385	REMOVE EXISTING FOUNDATION CONCRETE	EACH	0	0	3	3
89502205	MODIFY EXISTING CONTROLLER, (SPECIAL)	EACH	1	1	0	2
X0324887	CONDUIT INSTALLED, 2 1/2", NON-METALLIC	FOOT	0	0	56	56
X0324888	CONDUIT INSTALLED, 4", NON-METALLIC	FOOT	0	0	335	335
X0324942	GROUT REMOVAL AND REPLACEMENT	EACH	4	4	2	10
X0962500	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	0.15	0.15	0.7	1
X7240500	RELOCATE EXISTING SIGNS	EACH	0	0	2	2
XX002192	RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	0	0	1	1
XX002276	TRANSCIEVER-FIBER OPTIC, (SPECIAL)	EACH	0	0	1	1
XX004440	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	2	0	4
XX004441	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED, RETROFIT	EACH	6	6	0	12
XX004442	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	3	0	5
XX004443	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED, RETROFIT	EACH	5	5	0	10
XX004921	PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	0	6	0	6

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 USER NAME : jh111

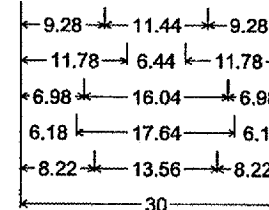
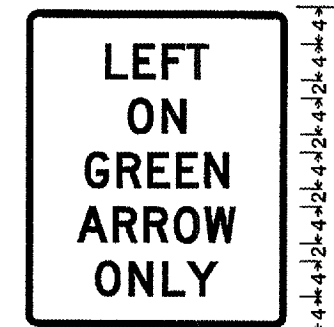
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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CONTRACT NO. 64C90				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..51Z..	..G2Y-IJIS-R..	..WINNEBAGO..	..R..	..4..
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

UTILITIES			
NAME	TYPE	TELEPHONE	JULIE MEMBER
MR DAVE SCHACHT COMMONWEALTH EDISON COMPANY 123 ENERGY AVE ROCKFORD, IL 61109	ELECTRIC	630-437-2129	YES 800-892-0123
MR JEREMY SCHNACK AT&T 635 18TH STREET ROCK ISLAND, IL 61201	TELEPHONE	309-793-4456	YES 800-892-0123
MS. CONSTANCE LANE NICOR GAS CO 1844 FERRY RD NAPERVILLE, IL 60563-9600	GAS	630-983-8676	YES 800-892-0123
MR. JOHN MARTIN ROCKFORD WATER DEPARTMENT 425 E STATE ST ROCKFORD, IL 61104	WATER	815-961-3766	NO
MR MICHAEL OLSON ROCK RIVER WATER RECLAMATION DISTRICT P.O. BOX 7480/3333 KISHWAUKEE ROCKFORD, IL 61126-7480	SEWER	815-387-7400	YES 800-892-0123
MR MIKE OWENS INSIGHT COMMUNICATIONS OF ROCKFORD 4450 KISHWAUKEE STREET ROCKFORD, IL 61109	CATV	815-395-8977	YES 800-892-0123

GENERAL NOTES:

- NO SIGNAL WORK WILL BE ALLOWED UNTIL ALL COMPONENTS TO COMPLETE THE PROJECT HAVE ARRIVED ON THE JOB SITE.
- THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATING ORDER DURING THE INSTALLATION OF PROPOSED SIGNALS AND PAID FOR AS, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION, LUMP SUM.
- THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES AND TRAFFIC CONTROLLER WILL BE DETERMINED BY THE FIELD ENGINEER.
- ALL TRAFFIC SIGNAL HEAD WILL BE ALIGNED WITH THE CENTER APPROPRIATE LANE OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON- EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS.



1.88" Radius, 0.75" Border, 0.50" Indent, Black on White;

[LEFT] White D 2K;

[ON] White D 2K;

[GREEN] White D 2K;

[ARROW] White D 2K;

[ONLY] White D 2K;

Table of letter and object lefts.

L	E	F	T
9.28	12.36	15.52	18.24

O	N
11.78	15.50

G	R	E	E	N
6.98	10.58	13.98	17.14	20.30

A	R	R	O	W
6.18	10.18	13.58	16.90	20.26

O	N	L	Y
8.22	11.94	15.62	18.34

2 MAST-ARM MOUNTED AND  
2 BRACKET MOUNTED PER INTERSECTION

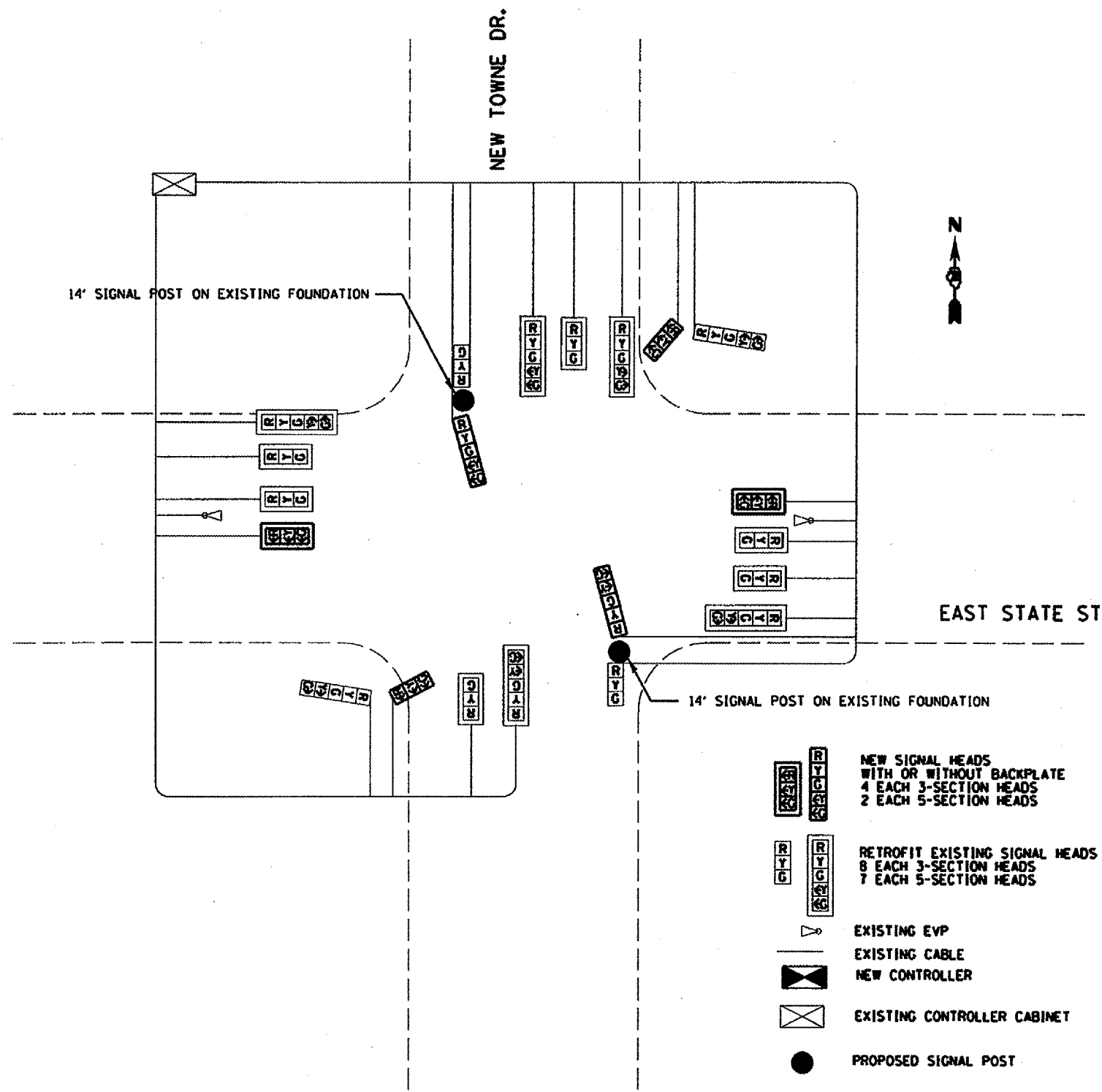
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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UTILITIES AND SIGN DETAILS

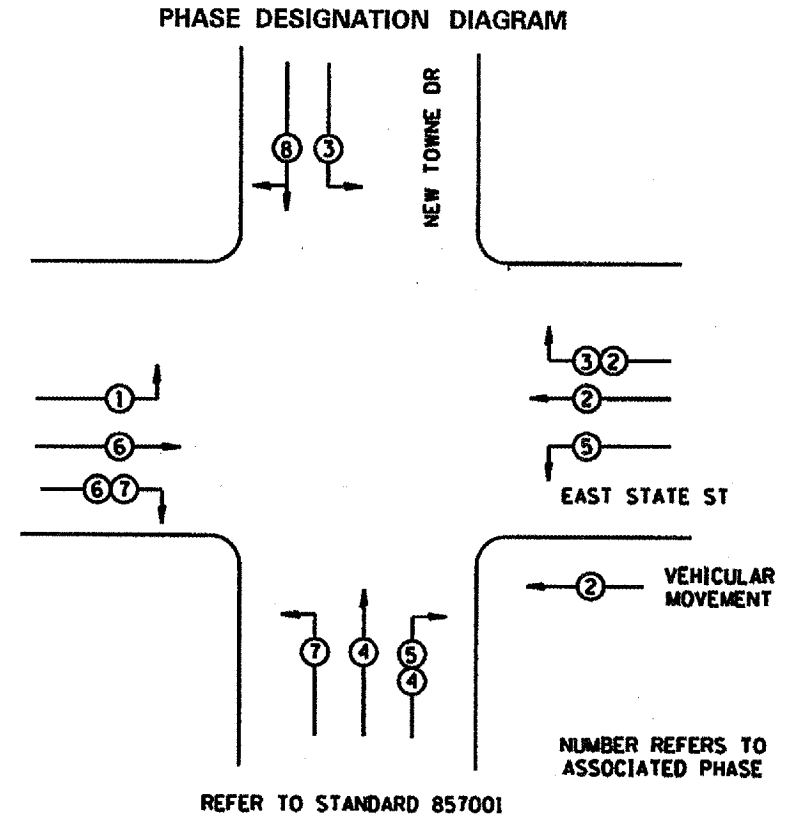
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USER NAME: JNIN

# US BUS 20 WITH NEW TOWNE DRIVE

CONTRACT NO. 64C90			
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS
..512	..02Y-1175-R	..WINNEBAGO	..9
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



- NEW SIGNAL HEADS WITH OR WITHOUT BACKPLATE  
4 EACH 3-SECTION HEADS  
2 EACH 5-SECTION HEADS
- RETROFIT EXISTING SIGNAL HEADS  
8 EACH 3-SECTION HEADS  
7 EACH 5-SECTION HEADS
- EXISTING EYP
- EXISTING CABLE
- NEW CONTROLLER
- EXISTING CONTROLLER CABINET
- PROPOSED SIGNAL POST



REFER TO STANDARD 857001  
US 20 BUS WITH NEW TOWNE DRIVE

- NOTES:
1. THE ENGINEER SHALL DETERMINE PLACEMENT OF ALL EQUIPMENT.
  2. GROUT REMOVAL AND REPLACEMENT WITH SCREENING, THE FOUR (4) MAST-ARM FOUNDATIONS.
  3. MODIFY EXISTING CONTROLLER TO ACCOMADATE THE PROTECTED LEFT-TURN MOVEMENT OFF THE MAINLINE.
  4. REMOVE AND RELOCATE TWO (2) SIGNAL HEAD TO THE NEW SIGNAL POST.
  5. FOLLOWING ITEMS SHALL BE REMOVED AT THIS INTERSECTION BY CONTRACTOR AND RETAINED BY HIM FOR SALVAGE VALUE UNDER THE PAY CODE REMOVE EXISTING SIGNAL EQUIPMENT, LUMP SUM.  
2 EACH SIGNAL POST  
2 EACH 1-SECTION SIGNAL HEAD BRACKET MOUNTED  
2 EACH 3-SECTION SIGNAL HEAD BRACKET MOUNTED  
2 EACH 5-SECTION SIGNAL HEAD MAST-ARM MOUNTED  
2 EACH 5-SECTION SIGNAL HEAD BRACKET MOUNTED
  6. ALL EXISTING CABLE SHALL BE UTILIZED IN THE MODERNIZATION OF THIS INTERSECTION.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

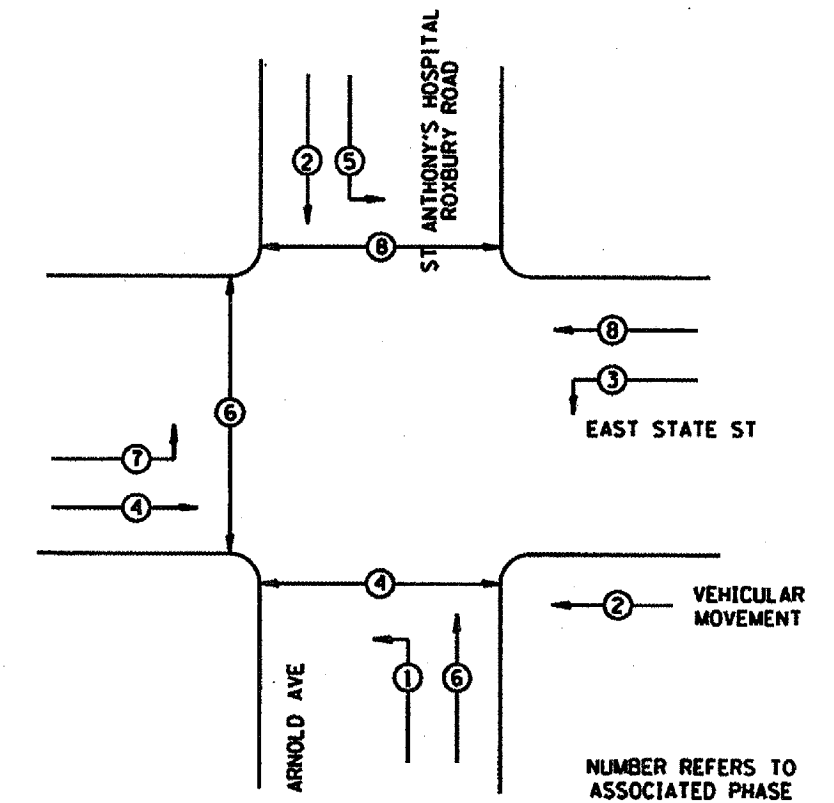
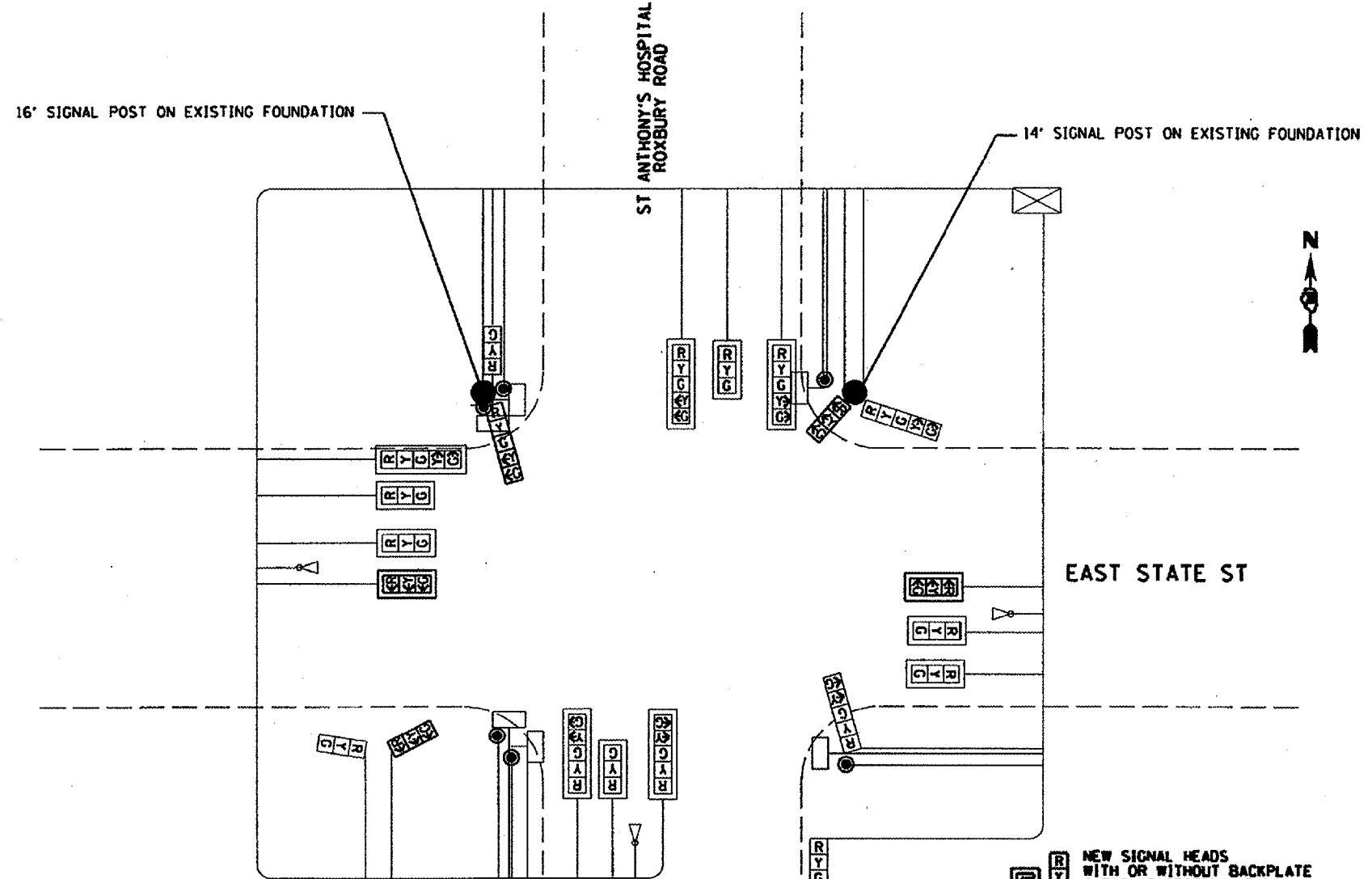
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CHECKED BY

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 PLOT SCALE: 1/8" = 1'-0"  
 USER: JMM

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20	27-115-R	NUMBERG0	9	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# US BUS 20 WITH ARNOLD AVE/ROXBURY RD

PHASE DESIGNATION DIAGRAM



REFER TO STANDARD 857001

US 20 BUS WITH ROXBURY RD/ARNOLD AVE

NOTES:

1. THE ENGINEER SHALL DETERMINE PLACEMENT OF ALL EQUIPMENT.
2. GROUT REMOVAL AND REPLACEMENT WITH SCREENING, THE FOUR (4) MAST-ARM FOUNDATIONS.
3. MODIFY EXISTING CONTROLLER TO ACCOMADATE THE PROTECTED LEFT-TURN MOVEMENT OFF THE MAINLINE.
4. REMOVE AND RELOCATE THREE (4) SIGNAL HEAD TO THE NEW SIGNAL POST.
5. FOLLOWING ITEMS SHALL BE REMOVED AT THIS INTERSECTION BY CONTRACTOR AND RETAINED BY HIM FOR SALVAGE VALUE UNDER THE PAY CODE REMOVE EXISTING SIGNAL EQUIPMENT, LUMP SUM.  
 2 EACH SIGNAL POST  
 1 EACH 1-SECTION SIGNAL HEAD BRACKET MOUNTED  
 1 EACH 3-SECTION SIGNAL HEAD BRACKET MOUNTED  
 2 EACH 5-SECTION SIGNAL HEAD MAST-ARM MOUNTED  
 2 EACH 5-SECTION SIGNAL HEAD BRACKET MOUNTED
6. ALL EXISTING CABLE SHALL BE UTILIZED IN THE MODERNIZATION OF THIS INTERSECTION.

- NEW SIGNAL HEADS WITH OR WITHOUT BACKPLATE  
4 EACH 3-SECTION HEADS  
1 EACH 5-SECTION HEADS
- RETROFIT EXISTING SIGNAL HEADS  
8 EACH 3-SECTION HEADS  
8 EACH 5-SECTION HEADS
- EXISTING EVP
- EXISTING CABLE
- NEW CONTROLLER
- EXISTING CONTROLLER CABINET
- PROPOSED SIGNAL POST
- EXISTING PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON

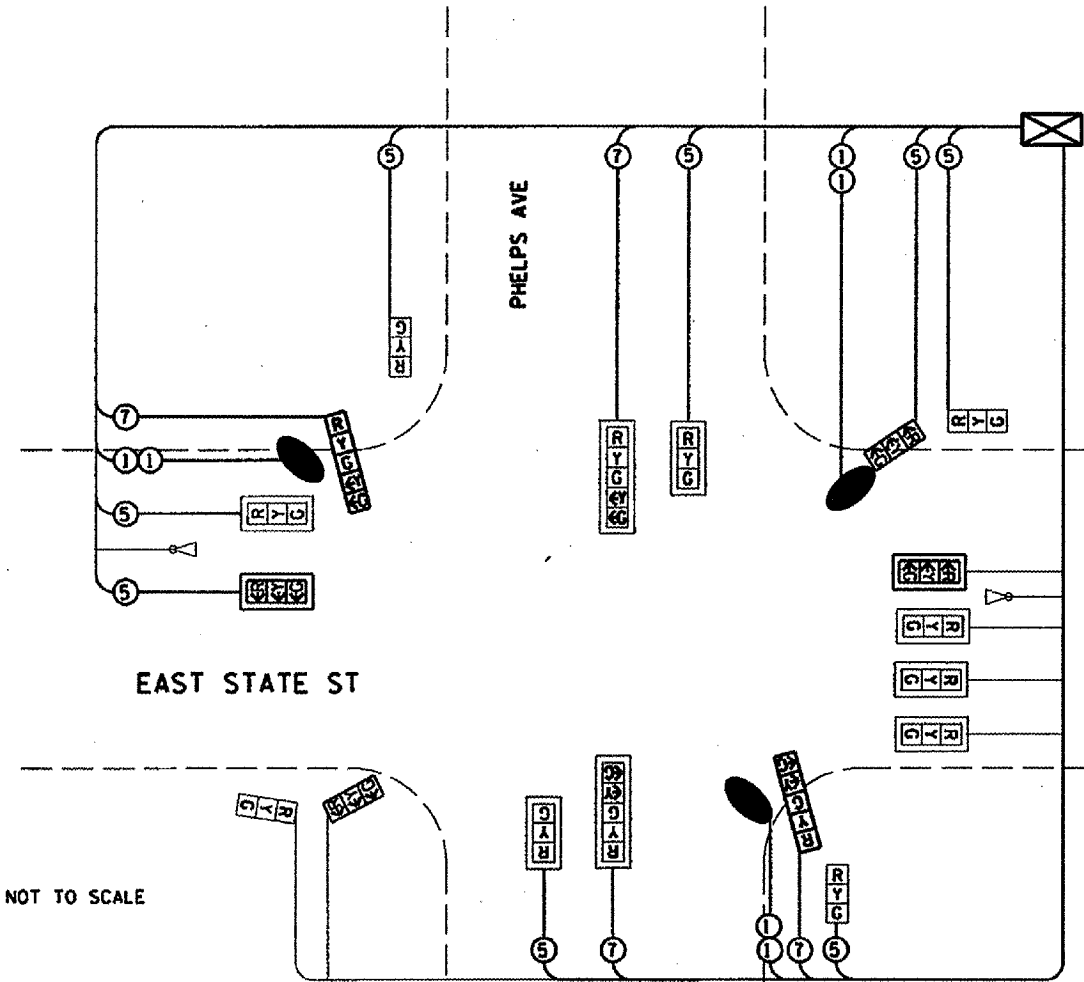
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 CHECKED BY: [Name]

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. DATE HORIZ. DRAWN BY CHECKED BY

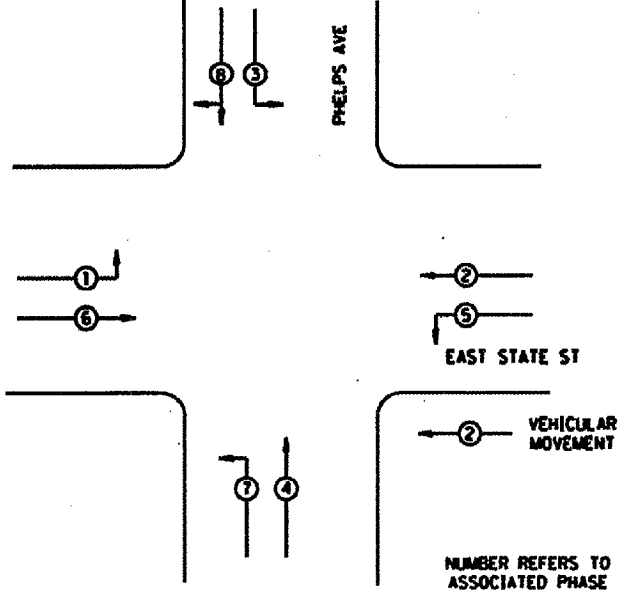
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512	127-105-R	WINNEBAGO	9	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

# US BUS 20 WITH PHELPS AVE



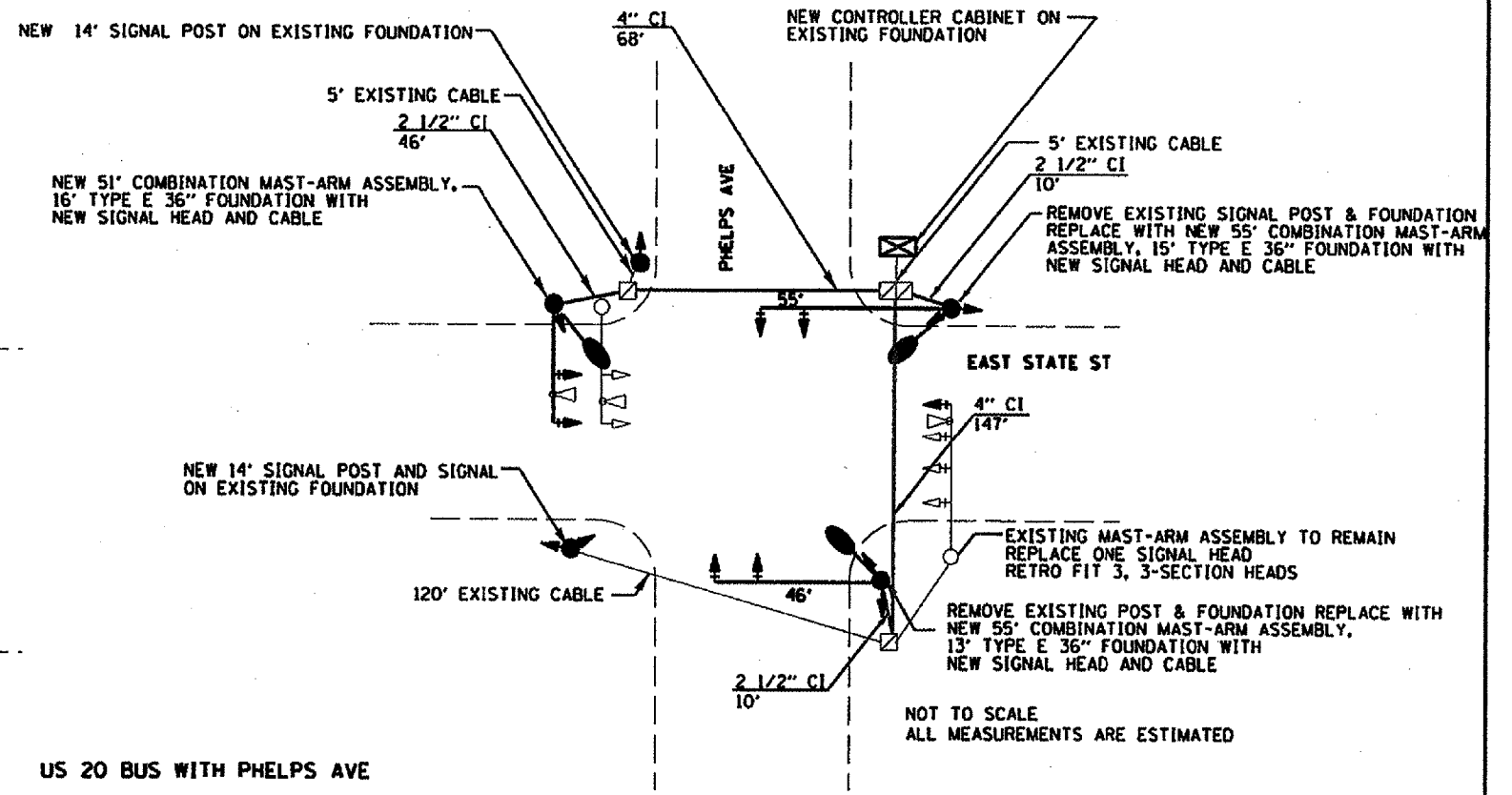
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PROPOSED PHASE DESIGNATION DIAGRAM



REFER TO STANDARD 857001

- NEW SIGNAL HEADS WITH OR WITHOUT BACKPLATE  
4 EACH 3-SECTION HEADS  
1 EACH 5-SECTION HEADS
- RETROFIT EXISTING SIGNAL HEADS  
8 EACH 3-SECTION HEADS  
8 EACH 5-SECTION HEADS
- EXISTING EVP
- EXISTING CABLE
- NEW CONTROLLER
- EXISTING CONTROLLER CABINET
- PROPOSED SIGNAL POST



NOT TO SCALE  
ALL MEASUREMENTS ARE ESTIMATED

## US 20 BUS WITH PHELPS AVE

- NOTES:
- THE ENGINEER SHALL DETERMINE PLACEMENT OF ALL EQUIPMENT.
  - GROUT REMOVAL AND REPLACEMENT WITH SCREENING, THE ONE (1) REMAINING MAST- ARM FOUNDATION.
  - MODIFY EXISTING CONTROLLER TO ACCOMADATE THE PROTECTED LEFT- TURN MOVEMENT OFF THE MAINLINE.
  - THE MOUNTING HEIGHT OF THE LUMINAIRES SHALL BE 35' WITH A 8' ARM.
  - FOLLOWING ITEMS SHALL BE REMOVED AT THIS INTERSECTION BY CONTRACTOR AND RETAINED BY THE CITY OF ROCKFORD THE CONTRACTOR SHALL CONTACT STEVE ERNST WITH THE CITY OF ROCKFORD 81-967-6734, THE PAY CODE REMOVE EXISTING SIGNAL EQUIPMENT, LUMP SUM.
    - 4 EACH SIGNAL POST
    - 1 EACH 1-SECTION SIGNAL HEAD BRACKET MOUNTED
    - 1 EACH 3-SECTION SIGNAL HEAD BRACKET MOUNTED
    - 2 EACH 5-SECTION SIGNAL HEAD MAST- ARM MOUNTED
    - 2 EACH 5-SECTION SIGNAL HEAD BRACKET MOUNTED
    - 1 EACH MAST- ARM ASSEMBLY
    - 1 EACH CONTROLLER AND CABINET
  - ALL EXISTING CABLE SHALL BE REPLACED IN THE MODERNIZATION OF THIS INTERSECTION.
  - THE EMERGENCY VEHICLE PRIORITY SYSTEM SHALL BE RELOCATED TO THE NEW MAST- ARM ASSEMBLIES.
  - RELOCATE FIBER OPTIC MODEM TO THE NEW CONTROLLER CABINET

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

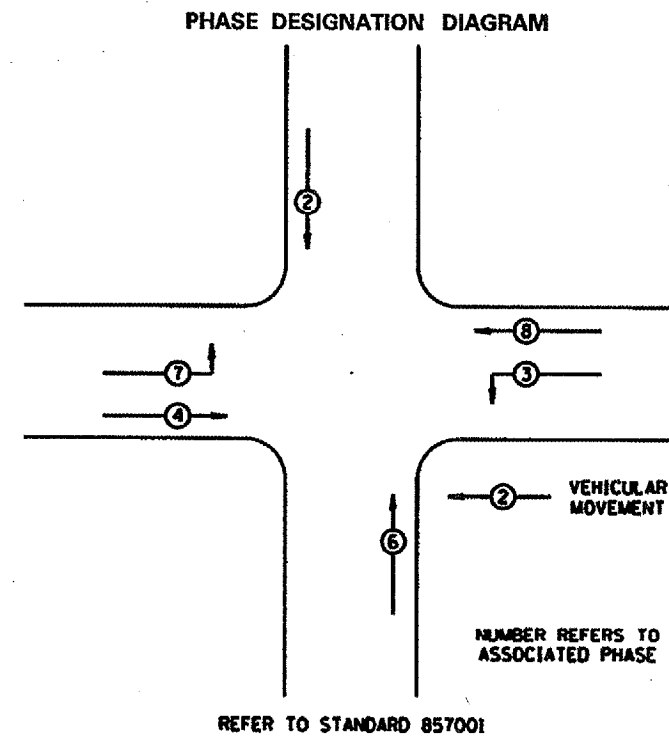
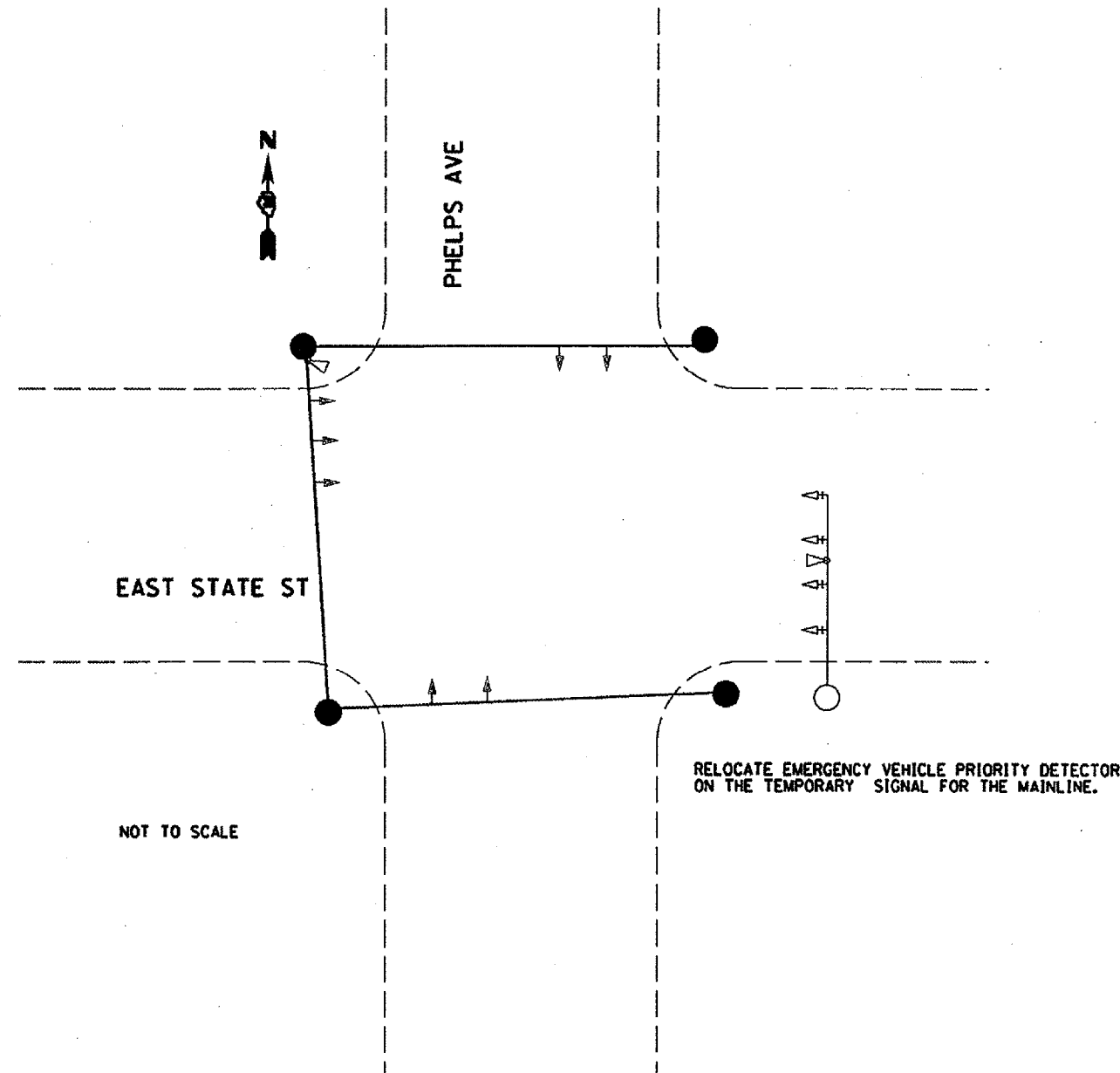
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DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

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 PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION PROJECT US 20 BUS WITH PHELPS AVE  
 DRAWN BY: J. J. M. / 11/20/07  
 CHECKED BY: J. J. M. / 11/20/07

# US BUS 20 WITH PHELPS AVE TEMPORARY SIGNALS

CONTRACT NO. 64C90				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SLZ	27-115-R	WINNEBAGO	9	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE: Feb 15 11:31:14 2007  
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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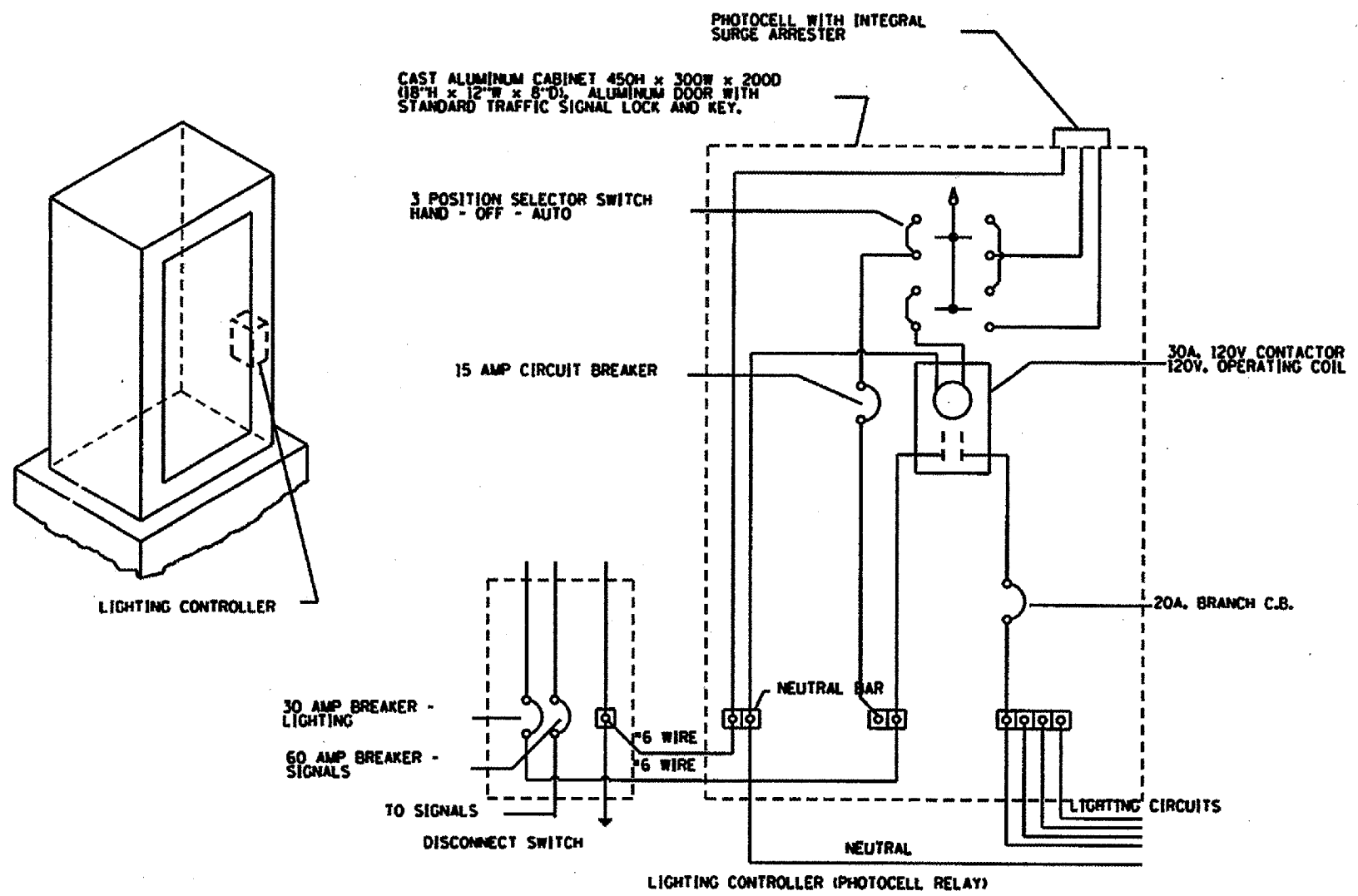
SCALE: VERT.  
HORIZ.  
DATE

US BUS 20 WITH PHELPS AVE  
TEMPORARY SIGNALS



P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..112..	1125-R	RUMBERG	..3..	..3..
STA. ....		TO STA. ....		
FED. ROAD DIST. NO. ....		ILLINOIS FED. AID PROJECT		

SERVICE AND CABINET DETAILS



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____
DRAWN BY _____		CHECKED BY _____
DATE _____		