

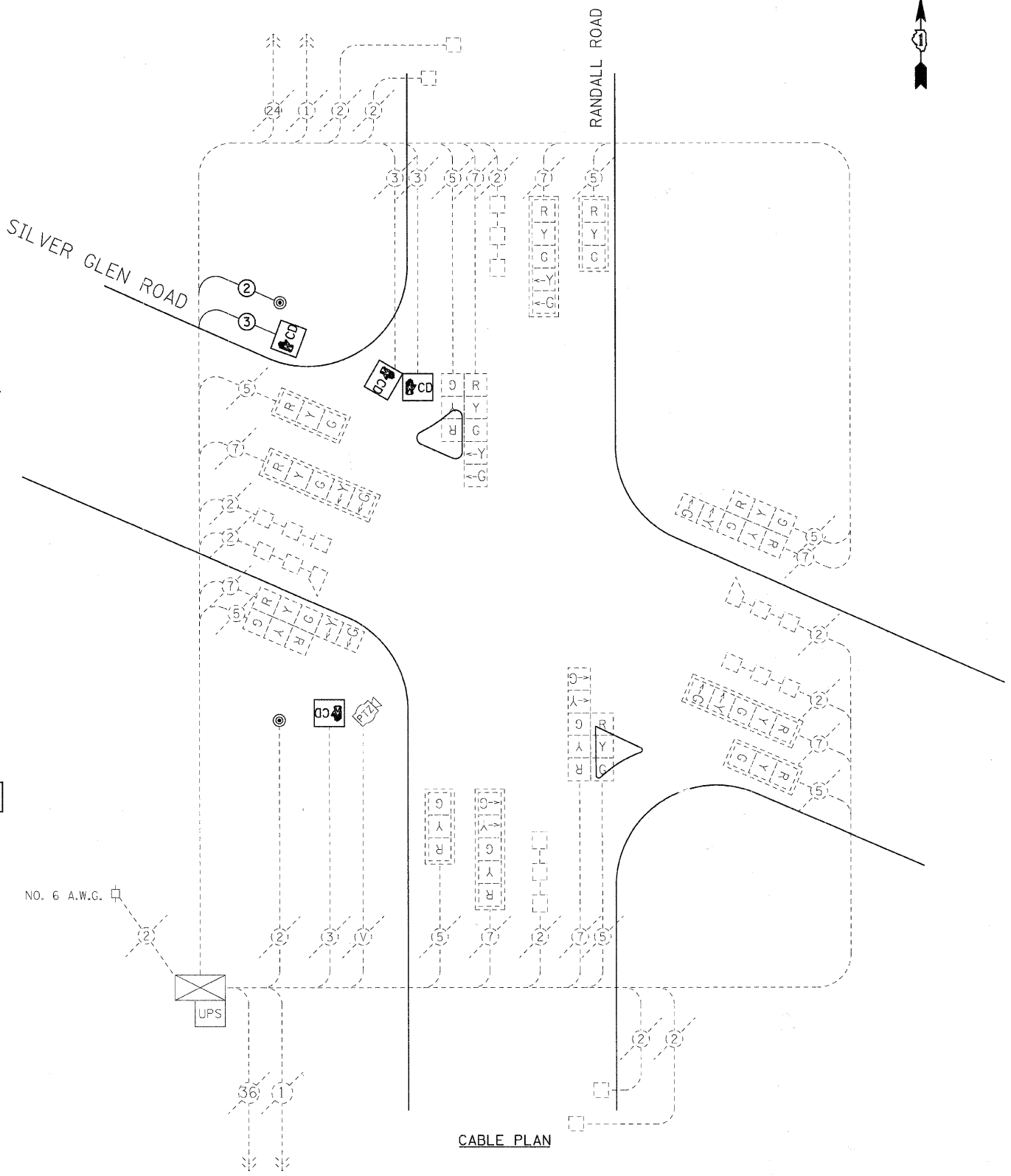
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2505	94-P4008-01-BR	KANE	81	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXISTING TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER  
\* = CABLE NUMBER
- GROUND CABLE IN CONDUIT  
NO. 6 SOLID COPPER (GREEN)
- FIBER OPTIC CABLE IN CONDUIT  
NO. 62.5/125 2-MM12F SM12F
- FIBER OPTIC CABLE IN CONDUIT  
NO. 62.5/125 2-MM12F SM42F
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 8"
- SIGNAL SECTION 12"
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE
- DOME CAMERA (PAN/TILT/ZOOM)
- UNINTERRUPTIBLE POWER SUPPLY
- VENDOR SPECIFIC CABLE

CABLE PLAN LEGEND

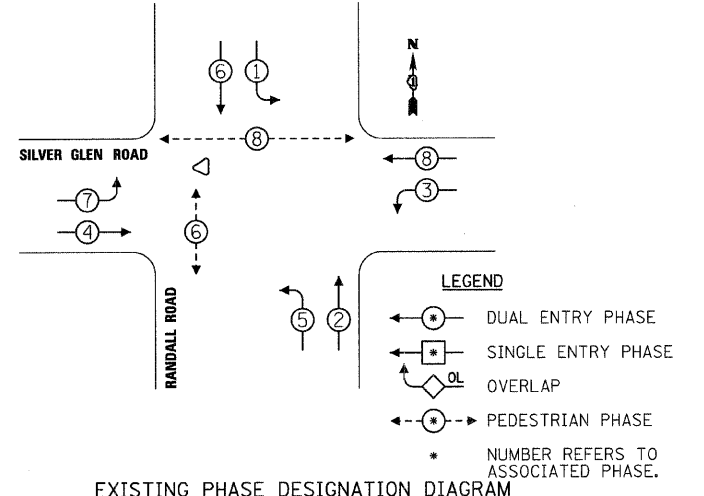
- CONTROLLER CABINET
- SERVICE INSTALLATION
- TELEPHONE SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- EMERGENCY VEHICLE PRIORITY LIGHT DETECTOR
- EVPS CONFIRMATION BEACON
- DENOTES NUMBER OF CONDUCTORS.  
ALL CABLE NO. 14 EXCEPT AS INDICATED.  
ALL LOOP CABLE TO BE SHIELDED.
- FIBER OPTIC CABLE / TRACER CABLE  
(SEE INTERCONNECT PLAN)
- LEAD-IN CABLE, 1 PAIR
- GROUND CABLE IN CONDUIT  
NO. 6 SOLID COPPER (GREEN)
- SIGNAL FACE WITH BACKPLATE
- SIGNAL FACE WITHOUT BACKPLATE
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- UNINTERRUPTIBLE POWER SUPPLY (UPS),  
BATTERY BACK-UP SYSTEM
- GROUND ROD  
C: CONTROLLER  
H: HANDHOLE  
P: SIGNAL POST OR MAST ARM POLE  
S: ELECTRIC SERVICE INSTALLATION



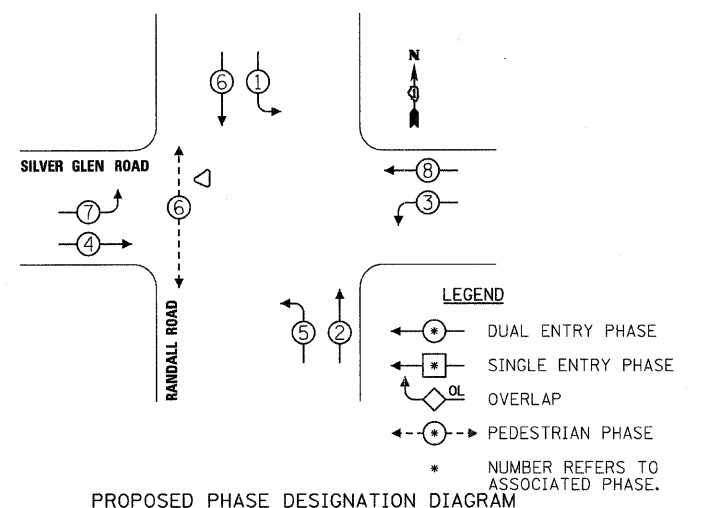
CABLE PLAN

SCHEDULE OF QUANTITIES

DESCRIPTION	UNITS	QUANTITY
RELOCATE SIGN PANEL - TYPE 1	SQ FT	6
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	46
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	235
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	245
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8
REMOVE EXISTING HANDHOLE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



EXISTING PHASE DESIGNATION DIAGRAM



PROPOSED PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	16	17	0.50		136.0
(YELLOW)	16	25	0.25		100.0
(GREEN)	16	15	0.25		60.0
ARROW	16	12	0.10		19.20
PED. SIGNAL	4	25	1.00		100.0
CONTROLLER	1	100	1.00		100.0
VIDEO SYSTEM	1	150	1.00		150.0
<b>TOTAL =</b>					<b>665.20</b>

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)=	
		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
		FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**RHA&A**  
Robert H. Anderson & Associates, Inc.  
Consulting Engineers  
License No. IB4-005281

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PEDESTRIAN BRIDGE OVER  
RANDALL ROAD AT SILVER GLEN ROAD  
FAU 2505, SECTION 94-P4008-01-BR  
STRUCTURE NUMBER 045-9000  
CABLE DIAGRAM AND SCHEDULE OF QUANTITIES  
SHEET 1 OF 1

SCALE: VERT. NONE  
HORIZ. NONE  
DATE: OCTOBER 31, 2008

DRAWN BY: TC  
CHECKED BY: SBP

PLOT DATE = 11/14/2008  
FILE NAME = H:\STP\p\c\dat\1168648\kx - Bridge\Design\08\1168648\CABLE01.dgn  
PLOT SCALE = NONE  
REFERENCE = #REF