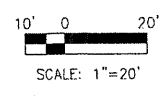
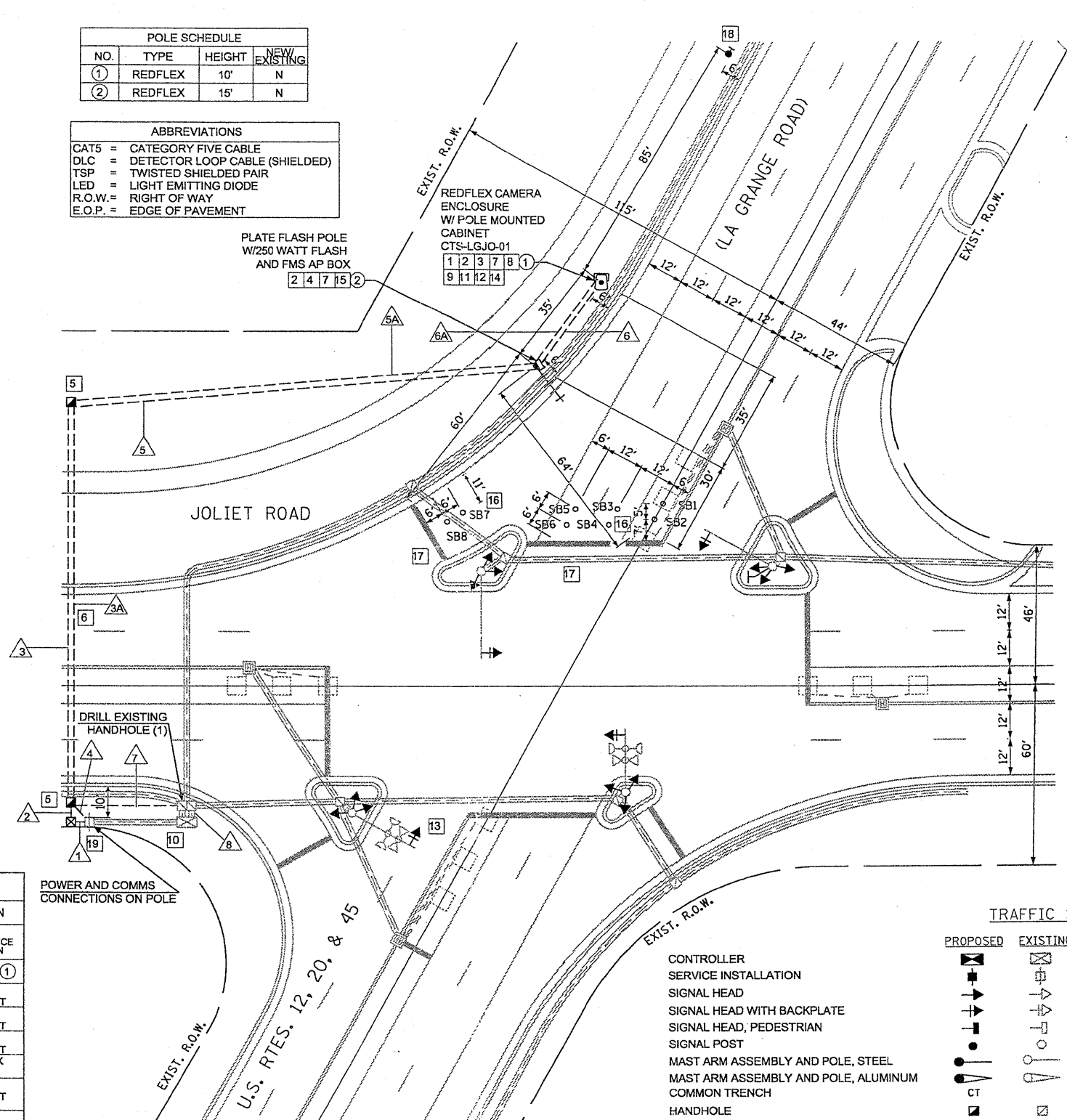


CONSTRUCTION NOTES

- POLE MOUNTED CABINET SETUP. ALL WIRES CONNECTED IN THE POLE MOUNTED CABINET FOR EACH APPROACH.
- INSTALL FOUNDATION AND POLE FOR REDFLEX EQUIPMENT. CONNECT POLE TO SOLID STRANDED BOND GROUND. SEE DRAWING FOR LOCATION. SEE POLE DETAIL. PAINT POLE TO CITY AND IDOT SPECIFICATION.
- INSTALL CAMERA ENCLOSURE ON REDFLEX POLE AND AIM AT MONITORED APPROACH.
- INSTALL A 250 WATT FLASH UNIT ON REDFLEX POLE, AIM AT MONITORED APPROACHES.
- INSTALL HANDHOLES OF THE SIZE AND TYPE PER IDOT STANDARDS-VERIFY BEFORE INSTALLATION.
- CONTRACTORS SHALL COMPLETE AS MANY POTHOLES AS NECESSARY. CONDUIT TO BE BORED UNDER ROADWAY. ALL BORE SHOTS SHALL BE DONE AT THE REQUIRED DEPTH TO MEET THE IDOT STANDARDS.
- ALL SPARE CONDUCTORS/WIRES SHALL TERMINATE AT THE HANDHOLES, IN THE CAMERA AND FLASH ENCLOSURES, AND IN THE POLE MOUNTED CABINET. SPARE WIRES SHALL BE TAPED AT THE END, CONTINUES IN LENGTH AND IDENTIFIABLE WITH PERMANENT IDENTIFICATION BAND AND TAG AS "RTS PROPERTIES".
- CONTRACTOR SHALL TERMINATE ALL POWER CIRCUITS INTO REDFLEX ENCLOSURES. INSTALL 40 AMP BREAKER INTO NEW POWER PEDESTAL (REDFLEX SERVICE INSTALLATION) FOR 120V SUPPLY TO CAMERA ENCLOSURE.
- INSTALL 5 AMP FUSE INSIDE POLE MOUNTED CABINET, TO PROTECT IDOT TRAFFIC CABINET.
- INSTALL MINIATURE CURRENT TRANSFORMERS TO DETECT RED PHASE AND NEUTRAL, INSIDE TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES.
- TERMINATE POLE TO REDFLEX ENCLOSURE POWER CIRCUIT (HOT & NEUTRAL). CONNECT TO SOLID STRANDED BOND GROUND.
- INSTALL COMCAST INTERNET SERVICE INTO POLE MOUNTED CABINET.
- INSTALL LED SIGNAL HEADS. AIM CAMERA SO SIGNAL HEAD, AND ENFORCED LANES ARE VISIBLE TO REDFLEX CAMERA.
- TERMINATE #14 WIRE TO RED PHASE AND NEUTRAL INSIDE IDOT TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES. (NOTE: NOTIFY THE TRAFFIC OPERATIONS DEPARTMENT OF THE CITY 7 DAYS BEFORE CONNECTION)
- FMS ANTENNA IS LOCATED ON TOP OF FLASH POLE. POLE NEEDS TO BE 12' TO 15' TALL WITH AP LOCATED AT LEAST 12' HIGH (FOR DETAILS SEE CAMERA ENCLOSURE AND FLASH POLE W/FMS AP BOX (TYPE 1) DRAWING # 3072-101).
- INSTALL FMS FOR REDFLEX DETECTION, TWO FMS DEVICES PER LANE. THE FMS ACCESS POINT BOX IS ATTACHED TO THE FLASH POLE FOR EACH APPROACH.
- REFRESH STRIPING (STOP BAR AND LANES ETC) AS NEEDED AT THE MONITORED APPROACHES.
- INSTALL "RED LIGHT PHOTO ENFORCED" SIGN R10-1104 (36"X36"). SIGNS WILL BE LOCATED PER SPECIFICATION OF IDOT ENGINEER OR CITY ENGINEER AND PLACED BY CONTRACTOR.
- CONTRACTOR SHALL CONNECT SERVICE CABLES TO COMED SECONDARY SERVICE ON WOOD POLE AND ROUTE DOWN THE POLE TO AN UNDERGROUND CONDUIT TO REDFLEX SERVICE INSTALLATION.

POLE SCHEDULE			
NO.	TYPE	HEIGHT	NEW/ EXISTING
1	REDFLEX	10'	N
2	REDFLEX	15'	N

ABBREVIATIONS	
CAT5	= CATEGORY FIVE CABLE
DLC	= DETECTOR LOOP CABLE (SHIELDED)
TSP	= TWISTED SHIELDED PAIR
LED	= LIGHT EMITTING DIODE
R.O.W.	= RIGHT OF WAY
E.O.P.	= EDGE OF PAVEMENT



GENERAL NOTES

- ALL EXISTING UTILITIES SHOWN WITHIN THE PLANS ARE THE BEST AVAILABLE INFORMATION PROVIDED BY COOPERATING UTILITY COMPANIES. NEITHER REDFLEX AND ITS CONSULTANT, IDOT, NOR THE MUNICIPALITY ASSUME RESPONSIBILITY AS TO THE PRECISE LOCATION OR ACCURACY OF SHOWN UTILITIES. THE CONTRACTOR SHALL PROPERLY FIELD VERIFY UTILITY LOCATIONS AND SHALL PROPERLY PROTECT, MAINTAIN AND/OR REPAIR ANY DAMAGE OF ALL KNOWN AND ANY EXPOSED UNKNOWN UTILITIES SHOWN WITHIN THE PLANS. REDFLEX AND ITS CONSULTANT, IDOT, AND THE MUNICIPALITY ASSUME NO LIABILITY RESULTING IN POSSIBLE DEFICIENCIES IN UTILITY LOCATIONS AND NO REMEDIAL OR ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL WORK SHALL CONFORM TO ALL NATIONAL BUILDING AND ELECTRICAL CODES EXCEPT WHEN THE STATE D.O.T. AND/OR THE MUNICIPALITY STANDARDS SUPERSEDE.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) ADOPTED JANUARY 1, 2007 AND THE IDOT SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2007.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL INSTALLATION IN PROPER OPERATING CONDITION. THE CONTRACTOR MUST FOLLOW THE PROCEDURES AS SPECIFIED IN THE ARTICLE 801.11 OF THE IDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM THE MAINTENANCE PROCEDURES AS OUTLINED IN IDOT DISTRICT 1 "TRAFFIC SIGNAL SPECIAL PROVISIONS".
- ALL SUBSTRUCTURES AND UNDERGROUND UTILITIES MUST BE LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL AND MUST NOTIFY ALL UTILITY COMPANIES WITHIN A MINIMUM OF TWO WORKING DAYS PRIOR TO START OF WORK.
- REDFLEX WILL MEET WITH THE CONTRACTOR, MUNICIPALITY AND IDOT (ILLINOIS DEPARTMENT OF TRANSPORTATION) OFFICIALS, AND POLICE TO MARK THE EXACT LOCATION OF THE POLES AND CABINET PRIOR TO CONSTRUCTION.
- TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY SHUTDOWNS OR DISRUPTION MUST BE COORDINATED WITH THE MUNICIPALITY AND IDOT.
- PRIOR TO CONSTRUCTING THE FOUNDATIONS AND/OR INSTALLING THE EQUIPMENTS FOR REDFLEX, THE CONTRACTOR SHALL ASCERTAIN THAT THE ADA CLEARANCE REQUIREMENTS FOR USABLE SIDEWALK WIDTH ARE MET AT ALL THE EQUIPMENT LOCATIONS.

	CONDUCTORS		CONDUITS								TERMINATION			
	SOURCE	AWG#	1	2	3	3A	4	5	5A	6		6A	7	8
NORTH APPROACH	POLE ①	#8		2	2			2		2				REDFLEX SERVICE INSTALLATION
	RTS CABINET	#8												CAMERA ENCLOSURE ①
	POLE ② (FLASH)	#10								2				POLE ①
REDFLEX	(FMS ANTENNA)	CAT5									1			POLE ①
	COMMUNICATION	COAXIAL				1	1							RTS CABINET
IDOT	REDFLEX SERVICE INSTALLATION	#8 GND.		1	1			1		1				POLE ①
	TRAFFIC RED PHASE	#14						7		7		7	7	ALL REDFLEX EQUIPMENT
COMED	COMMONWEALTH EDISON	#6	2											POLE ①
														RTS CABINET
TOTAL	TOTAL NEW CONDUCTORS		2	1	10	1	1	10	1	13	2	7	7	REDFLEX SERVICE INSTALLATION
	CONDUIT SIZE (INCHES)		2	2	3	3	2	2	2	3	2	2	4	
	CONDUIT LENGTH (~ FEET)		6	6	133	133	9	152	152	32	32	37	5	
	NEW/EXISTING CONDUIT		N	N	N	N	N	N	N	N	N	N	N	E

POWER AND COMMS CONNECTIONS ON POLE

FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. TOLL FREE TEL. 800-892-0123

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING

SEAL	DATE	INITIALS	DESCRIPTION
	11/18/2008	[Signature]	
	11/30/2009	[Signature]	

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HWY-WAY
SUITE 308
CHICAGO, ILLINOIS 60631
TEL. (773)774-5910

REDFLEX TRAFFIC SYSTEMS
15020 N. 74TH STREET
SCOTTSDALE, AZ 85260
PH: 480 607 0705

DESIGNED BY:	REVIEWED BY CITY STAFF:	APPROVED BY:
XXX	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE:
XXX	DEPARTMENT: PUBLIC WORKS (CONV.)	DATE:
XXX	DEPARTMENT: PUBLIC WORKS (WATER)	DATE:
XXX	DEPARTMENT: PUBLIC WORKS (TRAF.)	DATE:
	FIRE DEPT.	DATE:

CITY OF: **COUNTRYSIDE**
REDLIGHT PHOTO ENFORCEMENT

TITLE: **U.S. ROUTES. 12, 20, & 45 (LA GRANGE RD.) AT JOLIET RD. RLR CAMERA INSTALLATION**

DRAWING NO. **3099-102**

* FAU 3562 + FAU 1504