F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9182	03-00176-03-RS	ST. CLAIR	14	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	WEST MAIN STREET		
TRAFFIC SIGNAL PLANS				

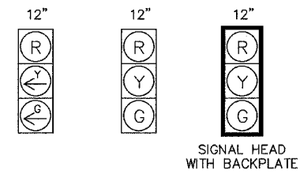
CONTRACT NO. 97284

LOOP #	DIRECTION	PHASE	LOOPS SIZE (FOOT)	REQUIRED NUMBER OF TURNS	LEAD-IN CABLE LENGTH (FOOT)	CALCULATED INDUCTANCE (microhenries)	CALCULATED RESISTANCE (ohms)
WEST MAIN STREET & 95TH STREET							
1	N.B.		6' X 50'	3-6-3	115	811	2.2
2	N.B.		6' X 50'	3-6-3	121	810	2.2
3	N.B. LT.		6' X 50'	3-6-3	118	815	2.2
4	S.B.		6' X 50'	3-6-3	114	811	2.2
5	S.B.		6' X 50'	3-6-3	125	814	2.2
6	S.B. LT./THRU		6' X 50'	3-6-3	137	816	2.3
7	E.B. LT.		6' X 50'	3-6-3	39	795	1.8

THE ABOVE VALUES ARE CALCULATIONS OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE.
ACTUAL VALUES SHOULD BE WITHIN 20% OF THESE VALUES.

CABLE DIAGRAM LEGEND

- EXISTING ELECTRIC CABLE IN CONDUIT
- #6 LOOP DETECTOR NUMBER
- EXISTING PEDESTRIAN PUSH BUTTON
- EXISTING LIGHT DETECTOR WITH CONFIRMATION BEACON (EMERGENCY VEHICLE PRIORITY SYSTEM)
- PROPOSED DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)
- PROPOSED SPLICE IN HANDHOLE
- SHADED OBJECTS INDICATE EXISTING SIGNAL FEATURES TO REMAIN.



SIGNAL HEAD WITH BACKPLATE

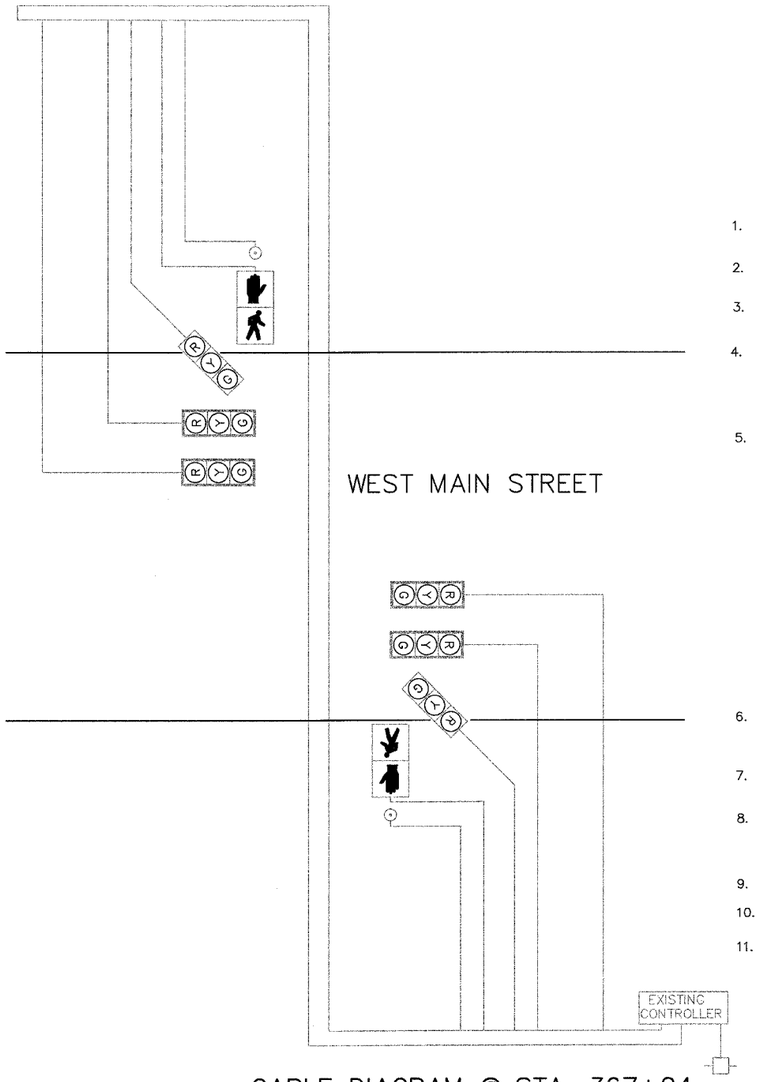
TRAFFIC SIGNAL FACES

ELECTRICAL GENERAL NOTES

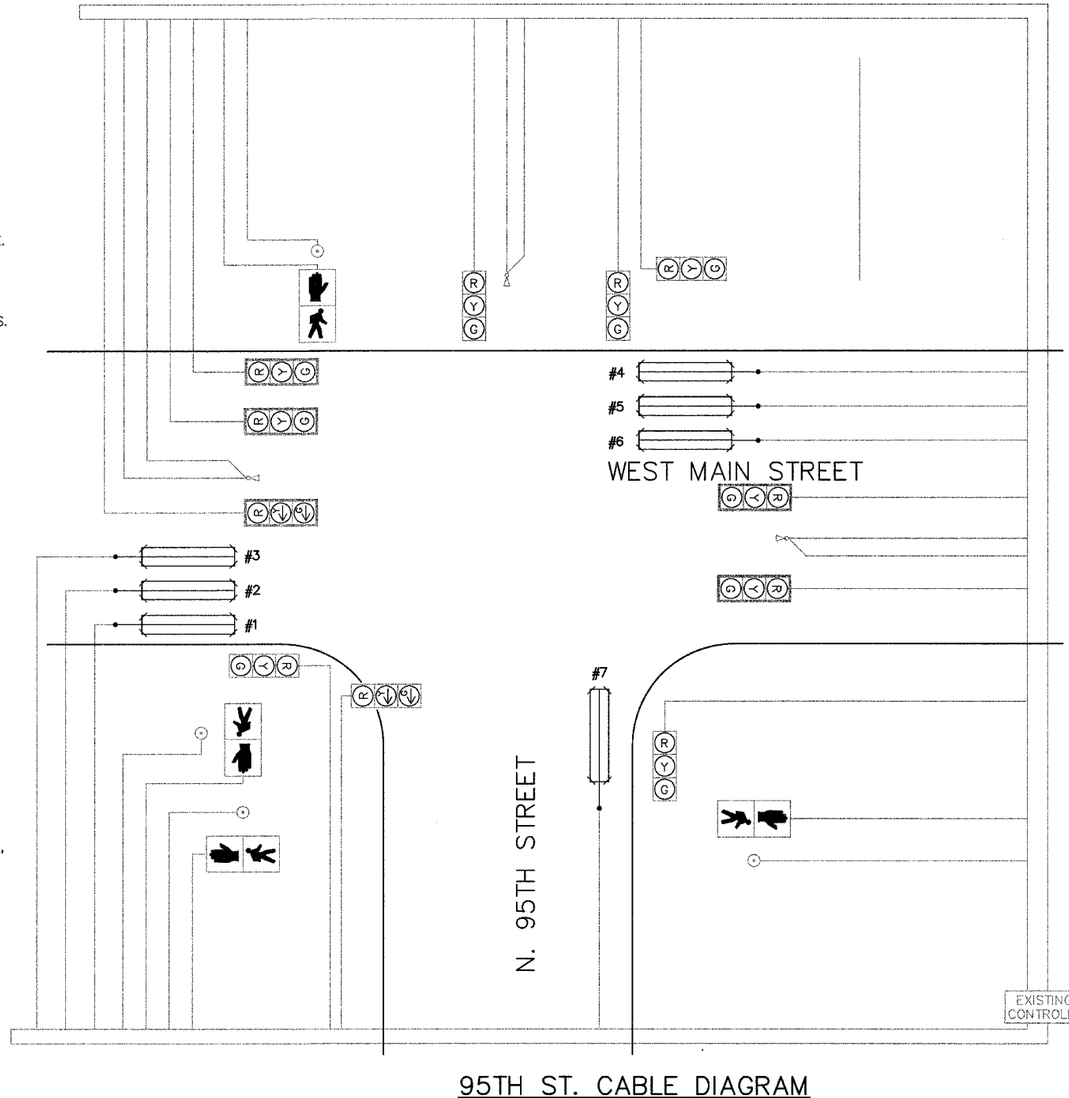
1. ALL EXISTING INCADESCENT VEHICLE AND PEDESTRIAN BULBS SHALL BE REPLACED WITH LED BULBS. EXISTING LED BULBS TO REMAIN IN PLACE.
2. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
3. THE OPTICAL UNIT OF ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS SHALL BE LIGHT EMITTING DIODES (LED) INSTEAD OF INCANDESCENT BULBS.
4. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. RESIN CORE SOLDER SHALL BE USED.
5. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING:

   AMEREN IP (GAS & ELECTRIC)
   ATT (TELEPHONE)
   MCLEOD USA (FIBER OPTIC COMMUNICATION CABLE)
   CHARTER COMMUNICATIONS (CABLE TV)
   ILLINOIS AMERICAN WATER COMPANY (WATER)
   CITY OF BELLEVILLE (SEWER)

   THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
6. SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (JULIE) IN THE SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG.
7. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND CONSTRUCTION STAGING REQUIREMENTS.
8. DETECTOR LOOPS WITHIN RESURFACING LIMITS SHALL BE INSTALLED IN THE PAVEMENT PRIOR TO RESURFACING, AS DIRECTED BY THE ENGINEER. DETECTOR LOOPS SHALL BE A MINIMUM OF 4 INCHES DEEP, TOTAL DEPTH, AFTER RESURFACING.
9. NO NEW CABLE IS REQUIRED, REUSE EXISTING CABLES IN PLACE.
10. EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM EQUIPMENT TO REMAIN, NO RECONSTRUCTION REQUIRED.
11. ALL EXISTING LOAD SWITCHES SHALL BE REPLACED.



CABLE DIAGRAM @ STA. 367+24



95TH ST. CABLE DIAGRAM

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE AREAS		
NO. AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE AREAS		
NO. AREAS CHECKED		