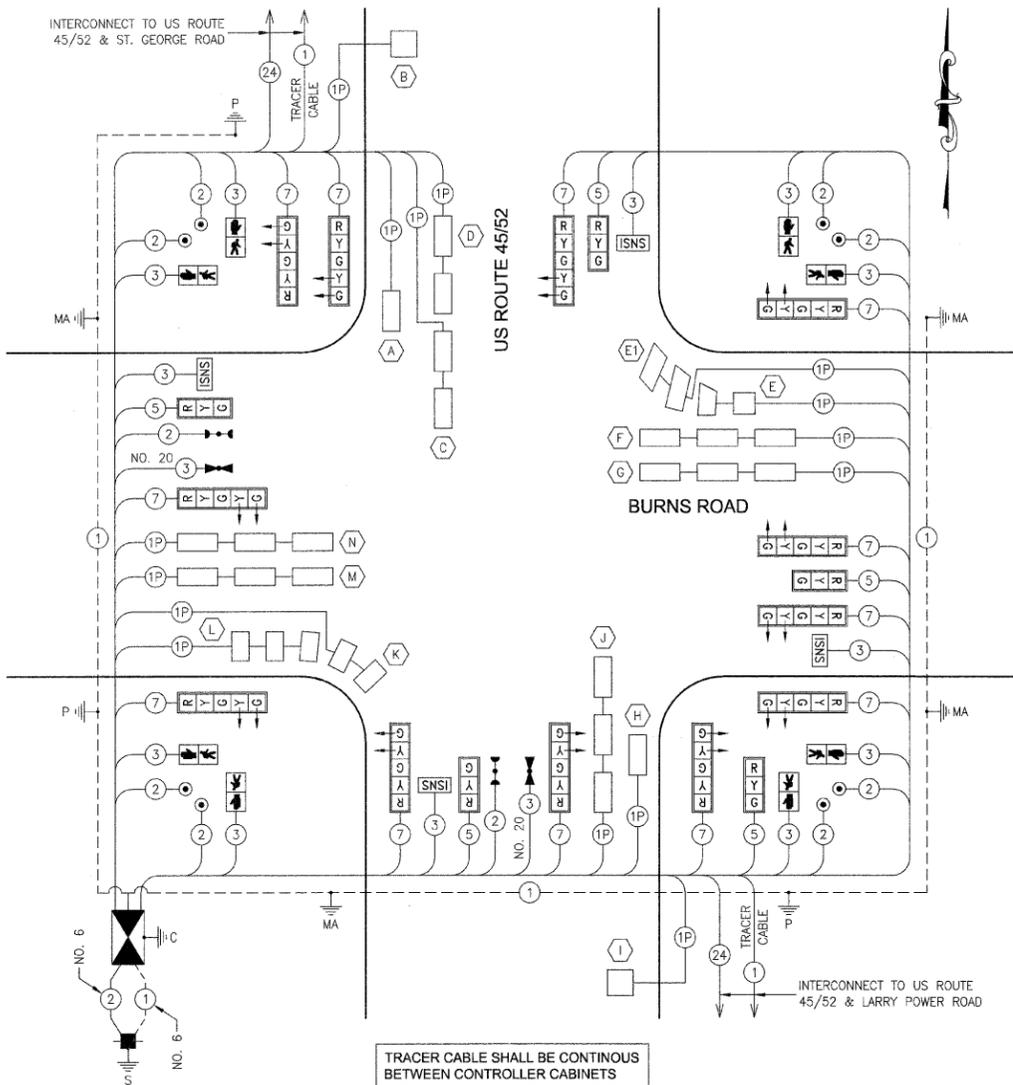


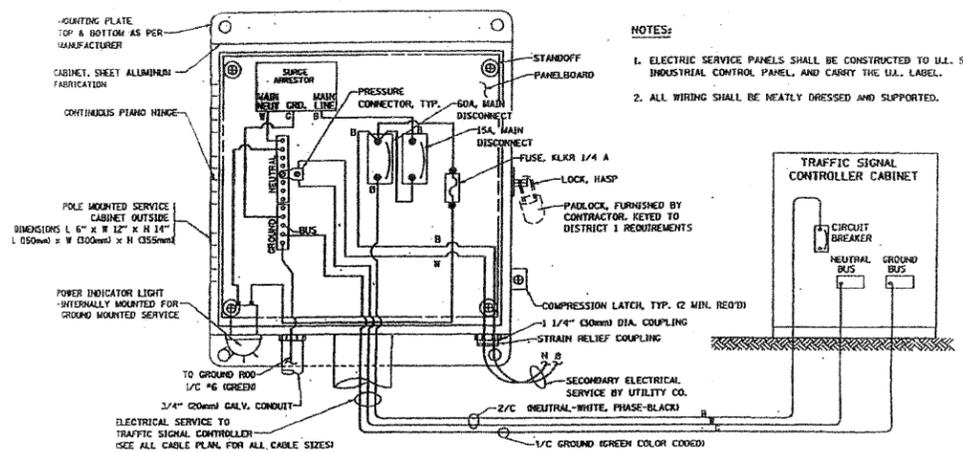
CABLE PLAN

CABLE PLAN LEGEND

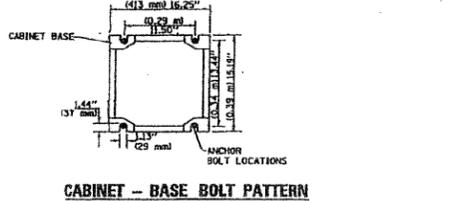
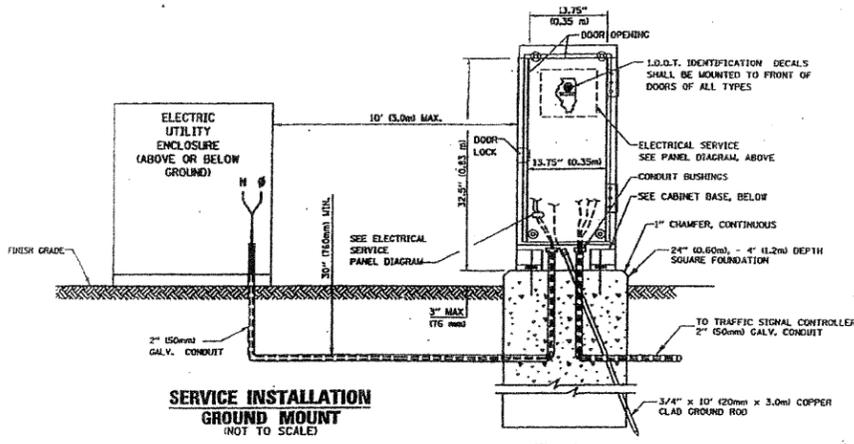


- EXISTING** **PROPOSED**
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - PEDESTRIAN PUSHBUTTON DETECTOR
 - EMERGENCY VEHICLE SYSTEM DETECTOR
 - CONFIRMATION BEACON
 - ILLUMINATED STREET NAME SIGN
 - DETECTION LOOP
 - DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO.14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
 - SIGNAL FACE WITH BACKPLATE
"P" INDICATES PROGRAMMED HEAD
 - GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
 - GROUND ROD AT POST OR MAST ARM POLE
 - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
 - FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2MM12F & SM12F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



FAU. RFE. SECTION. COUNTY. TOTAL SHEETS. SHEET NO.
 ** KANKAKEE. 41. 19

CONTRACT NO. 87414
 FED. ROAD DIST. NO. ILLINOIS. FED. AID PROJECT
 * BURNS ROAD WEST - FAU 6212
 ** 03-00058-00-FP

TYSON ENGINEERING, INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 DESIGN FIRM LICENSE # 04-001136
 367 SOUTH SCHUYLER AVENUE
 KANKAKEE, ILLINOIS 60901
 PHONE (815) 932-7406

This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Tyson Engineering Inc. and is not to be used in whole or in part, for any other project without written authorization of Tyson Engineering Inc.
 Do not scale drawings. Use dimensions only.
 Contractor shall be responsible for verifying all dimensions.
 Information herein and herein is confidential.

REVISIONS

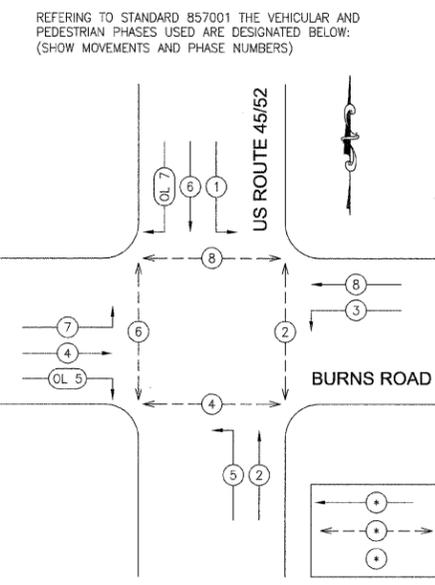
NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

TRAFFIC SIGNAL DETAILS

DETECTOR LOOP INDUCTANCE CHART

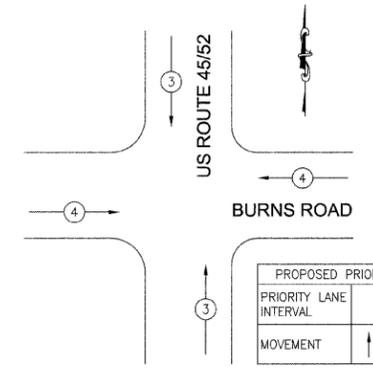
LOOP SYSTEM	LABEL	TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	O6 SB STBR	4	293	35656	OFF
B	O6 SB FAR	6	389.7	30917	ON
C	O1 SB LT FR	3	345	32859	ON
D	O1 SB LT BK	3	345	32859	ON
E	O8 WB STBR RL FR	4	356	32347	ON
E1	O8 WB STBR RL	3	336	33296	ON
F	O8 WB STBR CL	3	518.2	26811	ON
G	O8 WB LT	3	518.2	26811	ON
H	O2 NB STBR	4	290.4	35815	OFF
I	O2 SB FAR	6	388.2	30977	ON
J	O2 NB LT	3	498.4	27338	ON
K	O4 EB STBR RL FR	4	364	31990	ON
L	O4 EB STBR RL BK	4	544	26168	ON
M	O4 EB STBR CL	3	472	28093	ON
N	O4 EB LT	3	472	28093	ON

J PIN STATUS:
 "ON" MEANS STANDARD DETECTOR SETUP
 "OFF" MEANS THE J WIRE HAS BEEN DISCONNECTED, BUT INTACT AT THE HARNESS PANEL WITH THE NECESSARY SPADE CONNECTION ATTACHED, MARKED, AND INSULATED



PHASE DESIGNATION DIAGRAM

TO ASSURE COMPATIBILITY WITH EXISTING EMERGENCY VEHICLE PREEMPTION EQUIPMENT WITHIN THE VILLAGE OF BOUBONNAIS, THE EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE TOMAR ELECTRONICS PRODUCTS OR APPROVED EQUAL.



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS US ROUTE 45/52 & BURNS ROAD

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	17	17	0.50	144.50	
(YELLOW)	17	25	0.25	106.25	
(GREEN)	17	15	0.25	63.75	
ARROW	24	12	0.10	28.80	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
STREET SIGNS	4	2W/SF	0.50	93.00	
FLASHER	0			0	
TOTAL =					736.30

PROJECT: PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
 FROM BURNING BUSH DRIVE
 TO U.S. ROUTE 45/52

SECTION 03-00058-00-FP

DATE: 1/29/07 JOB NO. E05055

SCALE: N/A FILE NO.

DRAWN BY: MRG SHEET

CHECKED BY: SRM **19**

41