

DETECTOR INPUT FILE LAYOUT

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Ø1	Ø2	Ø2	Ø2	Ø3	Ø4	Ø4	Ø1	NA	ADV	PED	PED	FLH	
L	E,C	E,C	E,C	CALL	E,C	E,C	E,C	E,C	NA	SP1	Ø2	Ø4	STOP	
U	Ø5	Ø6	Ø6	Ø6	Ø7	Ø8	Ø8	Ø5	NA	SP2	EVA	EVB	RR1	
L	E,C	E,C	E	CALL	E,C	E,C	E	E,C	NA	SP3	EVC	EVD	RR2	

FRONT VIEW

U = Upper  
L = Lower

REAR PANEL

LOOP NUMBER	FILE LOCATION	TERMINAL NUMBER	LOOP NUMBER	FILE LOCATION	TERMINAL NUMBER
_____	I 1	DE	_____	J 1	DE
_____	I 1	JK	_____	J 1	JK
_____	I 2	DE	_____	J 2	DE
_____	I 2	JK	_____	J 2	JK
_____	I 3	DE	_____	J 3	DE
_____	I 3	JK	_____	J 3	JK
_____	I 4	DE	_____	J 4	DE
_____	I 4	JK	_____	J 4	JK
_____	I 5	DE	_____	J 5	DE
_____	I 5	JK	_____	J 5	JK
_____	I 6	DE	_____	J 6	DE
_____	I 6	JK	_____	J 6	JK
_____	I 7	DE	_____	J 7	DE
_____	I 7	JK	_____	J 7	JK
_____	I 8	DE	_____	J 8	DE
_____	I 8	JK	_____	J 8	JK
_____	I 9	DE	_____	J 9	DE
_____	I 9	JK	_____	J 9	JK
_____	I 10	DE	_____	J 10	DE
_____	I 10	JK	_____	J 10	JK
_____	I 11	DE	_____	J 11	DE
_____	I 11	JK	_____	J 11	JK
_____	I 12	DE	_____	J 12	DE
_____	I 12	JK	_____	J 12	JK
_____	I 13	DE	_____	J 13	DE
_____	I 13	JK	_____	J 13	JK
_____	I 14	DE	_____	J 14	DE
_____	I 14	JK	_____	J 14	JK

SIGNAL OUTPUT FILE LAYOUT

REAR PANEL

	FIELD TERM.	INDICATION	SIGNAL HEAD NO.
NB Ø4	101	RED	
	102	YELLOW	
	103	GREEN	
NBP Ø4P	104	DONT WALK	
	105		
	106	WALK	
SB Ø8	107	RED	
	108	YELLOW	
	109	GREEN	
SBP Ø8P	110	DONT WALK	
	111		
	112	WALK	
WBP Ø2P	113	DONT WALK	
	114		
	115	WALK	
SBLT Ø3	116	RED	
	117	YELLOW	
	118	GREEN	
EBP Ø6P	119	DONT WALK	
	120		
	121	WALK	
NBLT Ø7	122	RED	
	123	YELLOW	
	124	GREEN	
EBLT Ø1	125	RED	
	126	YELLOW	
	127	GREEN	
WB Ø2	128	RED	
	129	YELLOW	
	130	GREEN	
WBLT Ø5	131	RED	
	132	YELLOW	
	133	GREEN	
EB Ø6	134	RED	
	135	YELLOW	
	136	GREEN	

NOTES:

- Wiring identification shall be consistent with numbers shown for poles, signals heads and detectors.
- The Red, Yellow and Green Indicators Of Head \_\_\_ Shall Be Connected To Field Terminals \_\_\_\_, \_\_\_\_, and \_\_\_\_, Respectively. The Yellow Right and Green Right Arrows Of Head \_\_\_ Shall Be Connected To Field Terminals \_\_\_\_, and \_\_\_\_, Respectively.

WIRING DIAGRAM

All Conduit Shall Contain 1-#10THHN Ground Wire and 1-Pull String

DETECTOR SUMMARY

DETECTOR NUMBER	LOOP SIZE	NO. OF WIRE TURNS		MODE		PHASE CALLED	NO. OF CHANNELS	COMMENTS
		2-4-2 TURNS QUADRAPOLE	3 TURNS	PULSE	PRESENCE			

EMERGENCY FLASH	
Phase	Indication
1	RED
2	RED
3	RED
4	RED
5	RED
6	RED
7	RED
8	RED
Pedestrian	Dark

TABLE 1 PHASE FUNCTIONS ( 0 + key )

FUNCTION	KEY	PHASE NUMBER USE CAD LIGHTS							
		1	2	3	4	5	6	7	8
Vehicle Recall	0								
Pedestrian Recall	1								
Red Lock	2								
Yellow Lock	3								
Permit	4								
Pedestrian Phases	5								
Lead Phases	6								
Double Entry	7								
Sequential Timing	8								
Start-up Green	9								
Overlap A	A								
Overlap B	B								
Overlap C	C								
Overlap D	D								
Exclusive	E								
Simultaneous Gap	F								

TABLE 1 PHASE TIMING ( phase + key )

FUNCTION	KEY	PHASE							
		1	2	3	4	5	6	7	8
Max. I	0								
Max. II/HFDW	1								
Walk	2								
Flash DW	3								
Max. Initial	4								
Min. Green	5								
TBR	6								
TTR	7								
Observe Gap	8								
Passage	9								
Min. Gap	A								
Added Actuation	B								
Yellow	C								
Red Clear	D								
Red Revert	E								
Walk II	F								

TABLE 4 DETECTOR MAP ( "D" + Col.+key )

DETECTOR TYPE	DELAY				CARRYOVER				
	COLUMN NO.	2	3	4	5	4	3	2	1
Key CHANNEL(*)	Ph.	Time	Ph.	Time	Ph.	Time	Ph.	Time	
0	(1)	1		5		1		5	
1	Upper (9)	1		5		1		5	
2	Upper (2)	2		6		2		6	
3	Lower (2)	2		6		2		6	
4	Upper (3)	2		6		2		6	
5	Lower (3)	2		6		2		6	
6	(4)	2		6		2*		6*	
7	(5)	3		7		3		7	
8	Lower (9)	3		7		3		7	
9	Upper (6)	4		8		4		8	
A	Lower (6)	4		8		4		8	
B	Upper (7)	4		8		4		8	
C	Lower (7)	4		8		4		8	
D	(8)	2		6		4*		8*	
E									
F									
Cabinet File	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	

( ) = Slot Number \* =Set Type 3 Detector

DATE	REVISION	BY	APPR
TRAFFIC SIGNAL INSTALLATION WIRING DETAILS AND TIMINGS			
PROJECT			
PUBLIC WORKS - ENGINEERING			
PROJ. NO.	XX-XXXX	TSDetail01.DWG	02 JAN 02
DATE	XX-XX-XXXX	DETAIL 1 OF 6	
DESIGNED	XXX		
DESIGN CK	XXX		
DETAILED	XXX		
DETAIL CK	XXX	SHEET	X OF XX

