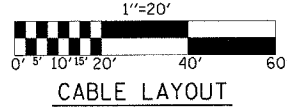


**TRAFFIC SIGNAL MODERNIZATION  
FAP 804 (U.S. ROUTE 45/NEIL ST.)**

**&  
WINDSOR ROAD**



**CABLE LAYOUT**

PULL: 4 NO. 14 2/C; 4 NO. 14 3/C;  
13 NO. 14 5/C; 8 NO. 14 7/C;  
4 NO. 20 3/C; 19 NO. 14 2/C, T.S.

ADD: 2 NO. 14 2/C, SIG.; 5 NO. 14 3/C, SIG.;  
4 NO. 14 4/C, SIG.; 4 NO. 14 5/C, SIG.;  
16 NO. 14 7/C, SIG.; 4 NO. 20 3/C;  
18 NO. 18, 3 PR., L-I; 2 NO. 6 1/C, XLP

PULL: 3 NO. 14 2/C; 3 NO. 14 3/C;  
6 NO. 14 5/C; 5 NO. 14 5/C;  
2 NO. 20 3/C; 8 NO. 14 2/C, T.S.

ADD: 1 NO. 14 2/C, SIG.; 3 NO. 14 3/C, SIG.;  
3 NO. 14 4/C, SIG.; 2 NO. 14 5/C, SIG.;  
8 NO. 14 7/C, SIG.; 2 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP;  
9 NO. 18, 3 PR., L-I

PULL: 1 NO. 14 2/C, T.S.  
ADD: 1 NO. 18, 3 PR., L-I

PULL: 2 NO. 14 2/C, T.S.  
ADD: 2 NO. 18, 3 PR., L-I

PULL: 3 NO. 14 5/C; 2 NO. 14 7/C;  
1 NO. 20 3/C; 11 NO. 14 2/C, T.S.

ADD: 1 NO. 14 3/C, SIG.; 1 NO. 14 5/C, SIG.;  
4 NO. 14 7/C, SIG.; 9 NO. 18, 3 PR., L-I;  
1 NO. 20 3/C; 2 NO. 10 1/C, XLP;  
1 NO. 6 1/C, XLP

1 NO. 14 2/C, XIG.; 1 NO. 14 4/C, SIG.;  
2 NO. 14 7/C, SIG.; 1 NO. 6 1/C, XLP

1 NO. 14 3/C, XIG.; 1 NO. 14 5/C, SIG.;  
2 NO. 14 7/C, SIG.; 1 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP

PULL: 3 NO. 14 5/C; 2 NO. 14 7/C;  
1 NO. 20 3/C; 5 NO. 14 2/C, T.S.

ADD: 1 NO. 14 3/C, SIG.; 1 NO. 14 5/C, SIG.;  
4 NO. 14 7/C, SIG.; 6 NO. 18, 3 PR., L-I;  
1 NO. 20 3/C; 2 NO. 10 1/C, XLP;  
1 NO. 6 1/C, XLP

1 NO. 14 3/C, SIG.; 1 NO. 14 5/C, SIG.;  
2 NO. 14 7/C, SIG.; 1 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP

PULL: 1 NO. 14 5/C; 1 NO. 14 7/C;  
5 NO. 14 2/C, T.S.

ADD: 2 NO. 14 7/C, SIG.;  
6 NO. 18, 3 PR., L-I;  
1 NO. 6 1/C, XLP

PULL: 1 NO. 14 5/C; 1 NO. 14 7/C

ADD: 2 NO. 14 7/C, SIG.; 1 NO. 6 1/C, XLP

PULL: 2 NO. 14 2/C, T.S.  
ADD: 2 NO. 18, 3 PR., L-I

PULL: 1 NO. 14 2/C, T.S.  
ADD: 1 NO. 18, 3 PR., L-I

ADD: 1 NO. 6 1/C, XLP

PULL: 2 NO. 14 5/C; 1 NO. 14 7/C;  
1 NO. 20 3/C

ADD: 1 NO. 14 3/C, SIG.; 1 NO. 14 5/C, SIG.;  
2 NO. 14 7/C, SIG.; 1 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP;  
3 NO. 18, 3 PR., L-I

PULL: 1 NO. 14 2/C; 1 NO. 14 3/C;  
1 NO. 14 5/C; 1 NO. 14 7/C

ADD: 1 NO. 14 2/C, SIG.; 1 NO. 14 4/C, SIG.;  
2 NO. 14 7/C, SIG.; 1 NO. 6 1/C, XLP

PULL: 2 NO. 14 2/C, T.S.  
ADD: 1 NO. 18, 3 PR., L-I

PULL: 1 NO. 14 2/C; 1 NO. 14 3/C;  
3 NO. 14 5/C; 2 NO. 14 7/C;  
1 NO. 20 3/C; 5 NO. 14 5/C

ADD: 1 NO. 14 2/C, SIG.; 1 NO. 14 3/C, SIG.;  
1 NO. 14 4/C, SIG.; 1 NO. 14 5/C, SIG.;  
4 NO. 14 7/C, SIG.; 1 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP;  
3 NO. 18, 3 PR., L-I

PULL: 1 NO. 14 2/C, T.S.  
ADD: 1 NO. 18, 3 PR., L-I

ADD: 1 NO. 14 2/C, SIG.; 3 NO. 14 3/C, SIG.;  
2 NO. 14 4/C, SIG.; 2 NO. 14 5/C, SIG.;  
6 NO. 14 7/C, SIG.; 2 NO. 20 3/C;  
2 NO. 10 1/C, XLP; 1 NO. 6 1/C, XLP;  
3 NO. 18, 3 PR., L-I

1 NO. 14 3/C, SIG.  
1 NO. 6 1/C, XLP

2 NO. 14 3/C, SIG.; 1 NO. 14 4/C, SIG.;  
1 NO. 14 5/C, SIG.; 2 NO. 14 7/C, SIG.;  
1 NO. 6 1/C, XLP; 1 NO. 20 3/C

**DETECTOR LOOP DATA**

LOOP:	SIZE:	MODE:	QUADRA-POLE	DELAY (sec)	EXIST./PROP.
A1,B1 D4	6'x20'	PRESENCE	YES	—	EXIST.
C8,D6-7	6'x20'	PRESENCE	YES	12	EXIST.
C1-7,D1-3	6'x6'	PRESENCE	NO	—	PROP.
A2-5,B2-5 C9-12,D8-11	6'x6'	PULSE	NO	—	EXIST.

- THE FOLLOWING LOOPS SHALL BE WIRED TO COMMON AMPLIFIERS:  
(A1), (A2-3), (A4-5), (B1), (B2-3), (B4-5), (C1-3), (C4-5), (C6-7), (C8),  
(C9-10), (C11-12), (D1-3), (D4-5), (D6-7), (D8-9), (D10-11).  
17 AMPLIFIERS TOTAL REQUIRED.

- THE CONTROLLER SHALL BE SET TO MINIMUM RECALL U.S. 45 (NEIL ST.).