

678.22 VEHICLE LOOP DETECTOR

U.S. ROUTE 7:
 LOOP 12 - 174 LF
 LOOP 13 - 139 LF
 LOOP 14 - 156 LF
 LOOP 15 - 161 LF

678.24 ELECTRICAL WIRING

U.S. ROUTE 7:
 STA 16+88.0, RT (105 LF)

678.25 PULL BOX, STANDARD

U.S. ROUTE 7:
 STA 16+88.0, RT

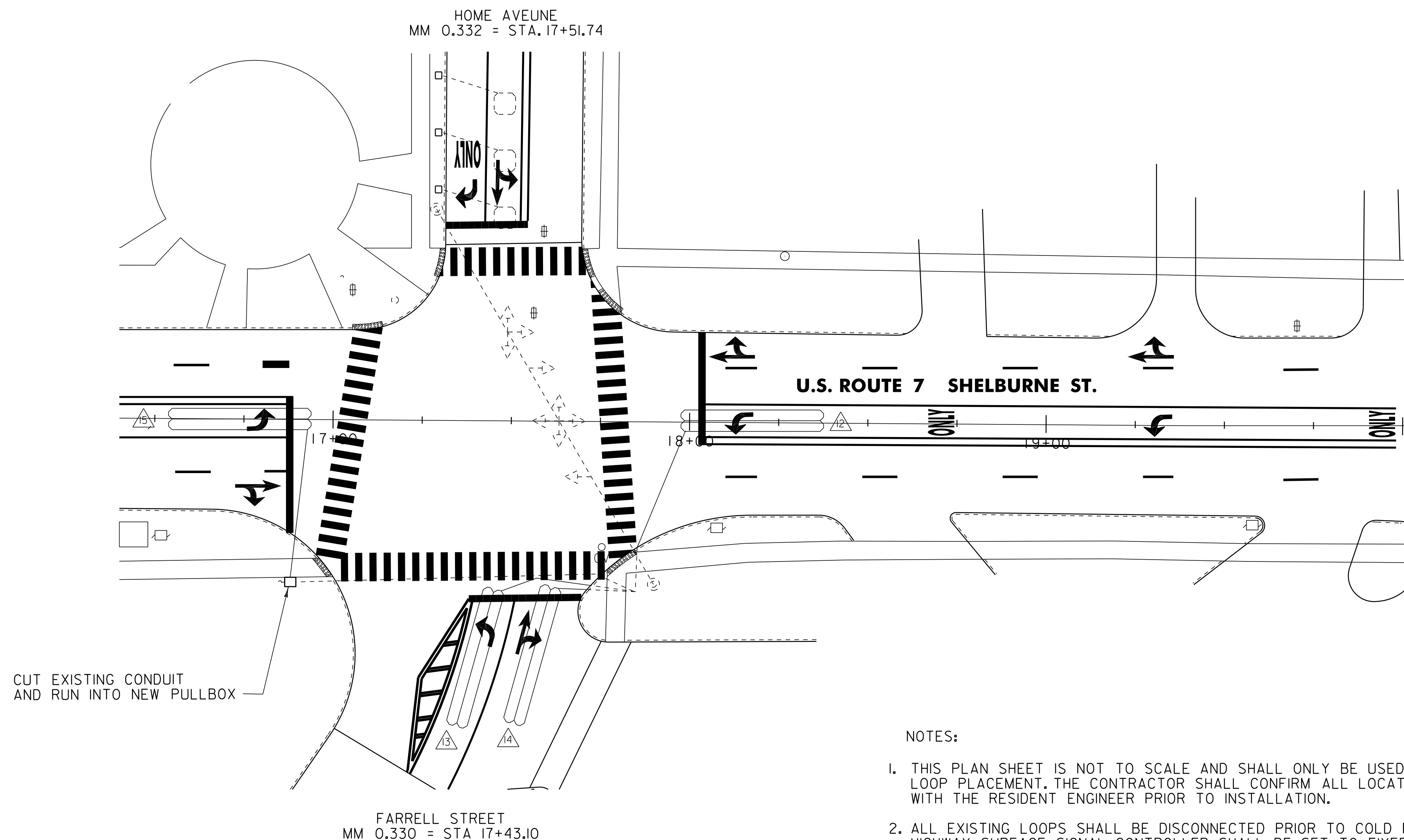
678.30 ELECTRICAL CONDUIT SLEEVE (1/2") (PVC)

U.S. ROUTE 7:
 STA 16+88.0, RT (15 LF)

VEHICLE LOOP DETECTORS							TEST RESULTS AT JUNCTION BOX / POLE				TEST RESULTS AT CONTROLLER **					
							INDUCTANCE (uH)		RESISTANCE Ω @ 25°C		(MΩ)	INDUCTANCE (uH)		RESISTANCE Ω @ 25°C		(MΩ)
LANE	LOOP NO.	SIZE	TYPE	NO TURNS	MODE	AMP	CALCULATED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND	CALCULATED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND
SB LT	12	6' x 40'	QUAD	2	PRESENCE	NON-DELAY						351		0.73		
WB LT	13	6' x 40'	QUAD	2	PRESENCE	NON-DELAY						347		0.67		
WB TH/RT	14	6' x 40'	QUAD	2	PRESENCE	NON-DELAY						343		0.62		
NB LT	15	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	350		0.70			375		1.03		

* MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.

** CALCULATED VALUES AT CONTROLLER ARE BASED ON DIRECT CONDUIT ROUTING TO THE NEAREST SIGNAL POLE AND CROSSING THE SPAN WIRE AS NECESSARY TO THE EXISTING CONTROLLER LOCATION. ANY SIGNAL MODIFICATION AND/OR CONTROLLER RELOCATION PRIOR TO LOOP CONNECTION WILL REQUIRE RECALCULATION OF THESE VALUES AS DIRECTED BY THE RESIDENT ENGINEER.



NOTES:

1. THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR LOOP PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
2. ALL EXISTING LOOPS SHALL BE DISCONNECTED PRIOR TO COLD PLANING THE EXISTING HIGHWAY SURFACE. SIGNAL CONTROLLER SHALL BE SET TO FIXED-TIME OPERATION.
3. ALL LOOPS WILL EXTEND 5.0 FT PAST THE CENTER OF THE STOP BAR ON EACH APPROACH.
4. LOOPS SHALL BE INSTALLED IN THE PAVEMENT PRIOR TO THE PLACEMENT OF THE WEARING COURSE.
5. LOOP WIRE SHALL BE SPLICED TO THE EXISTING LEAD-IN CABLE AT THE NEAREST JUNCTION BOX/POLE.
6. IF WATER VALVES, DROP INLETS OR OTHER OBSTRUCTIONS ARE ENCOUNTERED WITHIN THE AREA OF A PROPOSED LOOP, THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID THE OBSTRUCTION DURING LOOP INSTALLATION. IF LOOP SIZES OR SHAPES ARE TO BE MODIFIED DUE TO OBSTRUCTIONS, THE RESIDENT ENGINEER MUST APPROVE THE NEW LAYOUT PRIOR TO INSTALLATION.
7. SEE VAOT STANDARD E-172 FOR VEHICLE DETECTOR LOOP DETAILS.

LEGEND	
DESCRIPTION	
	NEW VEHICLE LOOPS
	EXISTING VEHICLE LOOPS
	EXISTING CONDUIT
	EXISTING JUNCTION BOX
	EXISTING CONTROLLER CABINET
	EXISTING SIGNAL POLE
	NEW PULLBOX

NOT TO SCALE

VEHICLE LOOP LAYOUT SHEET #2

PROJECT NAME: BURLINGTON CITY
 PROJECT NUMBER: STP 2727(1)S

FILE NAME: 07D222.dgn
 PROJECT LEADER: DEG
 DESIGNED BY: JPS
 IPARM FILE: 07D222_51.1

PLOT DATE: 31-OCT-2011 6:45
 DRAWN BY: KAR
 CHECKED BY: DWE
 SHEET 51 OF 88