

678.22 VEHICLE LOOP DETECTOR

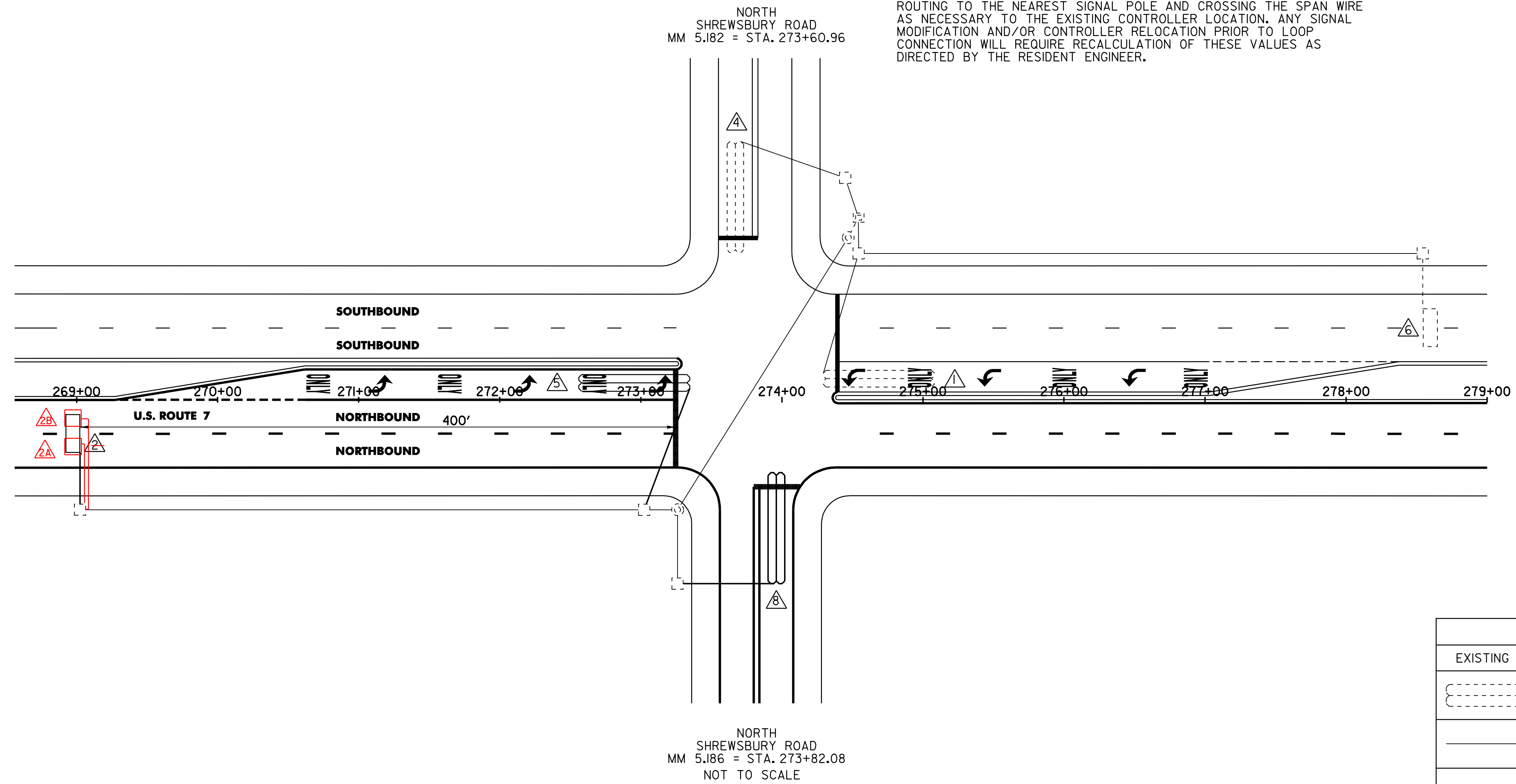
- LOOP 2 - 65 FT
- LOOP 5 - 171 FT 170.5 FT
- LOOP 8 - 155 FT 151 FT
- LOOP 2A - 40 FT
- LOOP 2B - 48 FT

2 ~ 6' x 6' PLACED
ONE IN EACH LANE

VEHICLE LOOP DETECTORS							TEST RESULTS AT JUNCTION BOX					TEST RESULTS AT CONTROLLER (FUTURE USE)**					
LANE	LOOP NO.	SIZE	TYPE	NO TURNS	MODE	AMP	INDUCTANCE (μH)		RESISTANCE Ω @ 25° C		LEAKAGE TO GROUND (MΩ)	INDUCTANCE (μH)		RESISTANCE Ω @ 25° C		LEAKAGE TO GROUND (MΩ)	
							CALCULATED	MEASURED	CALCULATED	MEASURED		CALCULATED	MEASURED	CALCULATED	MEASURED		
SB LT	1	EXISTING	QUAD														
NB TH	2	6' x 20'	RECT	3	PRESENCE	NON-DELAY	182		0.31			334		2.27			
EB TH	4	EXISTING	QUAD														
NB LT	5	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	349		0.70			404		1.41			
SB TH	6	EXISTING	RECT														
WB TH	8	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	345		0.64			399		1.34			
NB TL	2A	6' x 6'															
NB PL	2B	6' x 6'															

* 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		
EXISTING	NEW	DESCRIPTION
		VEHICLE LOOP
		CONDUIT
		JUNCTION BOX
		CONTROLLER CABINET
		SIGNAL POLE

TRAFFIC LOOP LAYOUT SHEET #1

PROJECT NAME: WALLINGFORD - RUTLAND TOWN
PROJECT NUMBER: AC NH 2207(I)S

FILE NAME: p99bl66.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: D.W.E.

PLOT DATE: 12-MAR-2007 11:30
DRAWN BY: C.A.K.
CHECKED BY: D.E.G.
SHEET 40 OF 95