

COMPOSITE SHEET - TRAFFIC ITEM SUMMARY - TRAFFIC SIGN SUMMARY SHEET - NOTES AND DETAILS

MILEMARKER, STATION, OR SIGN NUMBER	LEGEND	TYPE	SIGN DIMENSIONS	EXISTING SIGNS TO BE SALVAGED		NEW AND SALVAGED SIGNS (S.F.)				EXISTING POSTS			NEW POSTS							REMARKS	FOR SIGN DETAIL SEE:							
				REMOVE (EA)	RETAIN (EA)	NEW "A"	SALVAGED "A"	NEW "B"	SALV. "B"	RETAIN	DRILL	SALV.	TYPE "A" (FLANGED CHANNEL)			TYPE "C" (ALUMINUM)					TYPE "B" (BREAKAWAY)		PLAN SHEET	STD. SHEET				
													NUMBER OF POSTS	2 0LB/FT	25 LB/FT	30 LB/FT	3" Ø	3" □	4" Ø		4" MOD	POST SIZE	WEIGHT	FIG. SIZE 24"	30"	NUMBER	NUMBER	
R1		A	NOT APPLICABLE	1																					POST REMOVAL SUBSIDIARY TO SIGN REMOVAL.	II		
R2		A	NOT APPLICABLE	1																					AS ABOVE	II		
S1		A	48" x 48"	1	*		16																		ADDITIONAL NEW POSTS, REMOVAL OF OLD POST SUBSIDIARY TO SIGN REMOVAL.	II		
N1		A	48" x 48"				16																		COLOR, MATERIAL, TEXT FOR STD. E-15A	SEE BELOW		
N2		A	24" x 12"				2																					
N3		A	24" x 36"				6																					E15
N4		A	24" x 12"				2																					E15
N5		A	24" x 36"				6																					E15
N6		A	24" x 36"				6																					E15
N7		A	24" x 36"				6																					E15
N8		A	24" x 30"				5																					E15
N9		A	30" x 30"				6.3																					E15C
TOTALS	COLUMN PROJECT			3		553	16																					E15C

ITEM NUMBER	ITEM	UNIT	SHT #	#12	#13	#14	#15	UNIT	TOTAL
646.21	PAINTED CURBS	LF	1090'	1380'	(SEE 14)	240'		LF	2710'
646.35	TEMPORARY 4" WHITE LINE	LF	2250'	4100'	(SEE 14)	650'		LF	7000'
646.36	TEMPORARY 4" YELLOW LINE	LF	15230'	12400'	(")	740'		LF	29,370'
646.40	DURABLE 4" WHITE LINE	LF	6730'	8050'	(SEE 14)	720'		LF	15,500'
646.41	DURABLE 4" YELLOW LINE	LF	7630'	6700'	(")	370'		LF	14,700'
646.43	DURABLE 24" STOP BAR	LF	25'	255'	(")	40'		LF	340'
646.45	DURABLE ARROW MARKINGS	EA	9	36'	(")	6		EA	51
646.46	DURABLE LETTER MARKINGS	EA	3	8'	(")	2		EA	13
646.77	TEMPORARY 24" STOP BAR	LF	50'	510'	(")	120'		LF	680'
646.78	TEMPORARY ARROW MARKINGS	EA	6	36'	(")	10		EA	52
675.20	TRAFFIC SIGNS, TYPE A	SF					56 ⁰	SF	56 ⁰
675.53	REMOVING SIGNS	EA					3	EA	3
675.60	ERECTING SALVAGED SIGNS, TYPE A	SF					16 ⁰	SF	16 ⁰
678.15	TRAFFIC SIGNAL CONTROL (MODIFIED)	EA			(")	1		EA	1
678.22	VEHICLE LOOP DETECTOR	LF	165'					LF	165'
675.35	TRAFFIC SIGN POSTS, TYPE A	LB					300 ^{EST}	LB	300 ^{EST}

NOTES AND DETAILS

VEHICLE DETECTOR LOOPS (PARTICULARLY INTERSECTION ONLY)
 ALL LOOP WIRES SHALL BE INSTALLED IN TUBING ("SIGNAL DUCT", "DETECTO-DUCT" OR APPROVED EQUIVALENT). THE TUBING ENDS SHALL BE SEALED USING LOOP SEALANT PRIOR TO INSTALLATION IN THE SAW CUT.

LOOP LEAD-IN CABLE SHALL MEET TSSA SPECIFICATION #39.

ALL LOOPS SHALL BE FLAGGED IN THE BASE COURSE AND PAVED OVER BY THE FINAL COURSE. THE SAW SLOT SHALL BE SEALED USING AN APPROVED SEALANT AND ALLOWED TO CURE SUFFICIENTLY PRIOR TO PLACEMENT OF THE TOP COURSE.

LOOP SEALANT SHALL BE APPLIED USING A PRESSURE SYSTEM (ON OR APPROVED EQUIVALENT).

THE LOOP WIRES SHALL BE HELD IN PLACE DURING INSTALLATION BY SHORT STRIPS OF POLYETHYLENE FOAM SEALANT BAZERS. THE STRIPS SHALL BE ABOUT 3" LONG AND PLACED EVERY 2'. THEY ARE TO REMAIN IN PLACE WHEN THE SLOT IS SEALED.

TRAFFIC SHALL BE CONTROLLED BY A LICENSED TRAFFIC OFFICER(S) WHENEVER THE SIGNALS ARE NOT WORKING CORRECTLY.

IF THE LOOP LEAD-INS ARE DISCONNECTED OR NOT WORKING AFTER ACTIVATION THE APPROPRIATE FRASE(S) SHALL BE SET TO RECALL OR TRAFFIC SHALL BE CONTROLLED BY A LICENSED TRAFFIC OFFICER AT ALL TIMES.

DURING THE INSTALLATION OF THE LOOPS, THE CONTRACTOR, IN THE PRESENCE OF THE ENGINEER, SHALL TEST THE LOOPS BY TEST INSTRUMENTS CAPABLE OF MEASURING ELECTRICAL VALUES OF THE INSTALLED LOOP WIRES AND LEAD-INS. THE VALUES TO BE MEASURED ARE: INDUCED AC VOLTAGE, INDUCTANCE IN MICROHENRIES, RESISTANCE IN OHMS, LEAKAGE RESISTANCE IN MEGOHMS, AND THE RESISTANCE OF THE CONDUCTORS IN OHMS.

AN ACCEPTABLE LOOP INSTALLATION SHALL BE DEFINED AS FOLLOWS:
 INDUCED VOLTAGE - NO DEFLECTION ON THE POINTER OF A VOLT METER.
 INDUCTANCE - THE INDUCTANCE READING ON THE LOOP TESTER IS APPROXIMATELY THE CALCULATED VALUE OR, WITH THE APPROVAL OF THE ENGINEER, IN EXCESS THEREOF.
 LOOP Q - DEFLECTION OF THE POINTER TO THE UPPER SIDE OF THE SCALE.
 LEAKAGE TO GROUND - DEFLECTION OF THE POINTER TO ABOVE 1 MEGOHMS.
 LOOP RESISTANCE - THE RESISTANCE READING ON AN OHM METER IS APPROXIMATELY THE CALCULATED VALUE.

ANY SUSPICIOUS READING ON THE ABOVE SHALL BE CORRECTED BEFORE SEALING THE LOOP.

CALCULATED INDUCTANCE AT THE PULLBOX IS 115 MICROHENRIES.
 A LOOP INSTALLATION SHALL BE USABLE/AVAILABLE IF:
 THE INDUCTANCE READING IS BELOW 90 MH OR ABOVE 250 MH.
 LEAKAGE TO GROUND - DEFLECTION OF THE POINTER TO BELOW 1 MEGOHMS.
 THE LOOP RESISTANCE IS 502 OHMS THAN CALCULATED.
 AFTER THE LOOPS AND LEAD-INS HAVE BEEN TESTED TO THE SATISFACTION OF THE ENGINEER, THE SAW SLOT SHALL BE SEALED.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST EQUIPMENT TO PERFORM THE ABOVE TESTS. THE COST OF PROVIDING THE EQUIPMENT AND DOING THE TESTS ON EACH LOOP SHALL BE SUBSIDIARY TO VEHICLE DETECTOR LOOPS (675.22). IF UNSATISFACTORY READINGS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY TRAFFIC DESIGN PRIOR TO COMPLETION OF THE LOOP INSTALLATION.

THE VEHICLE DETECTOR LOOP SHALL BE REPLACED AS SOON AS POSSIBLE AND MAY BE INSTALLED IN THE GROUND CUT AREA ON A TEMPORARY LEAD-INS IF NECESSARY. THE QUANTITY FOR VEHICLE LOOP DETECTOR (ITEM 675.22) REFLECTS TWO APPLICATIONS OF THE LOOP DETECTOR, IN THE EVENT THAT THE TEMPORARY INSTALLATION IS USED. THE WORK FROM THE TEMPORARY LOOP SHALL BE APPROPRIATELY MARKED SO AS NOT TO CAUSE CONFUSION AT A LATER DATE.

2) TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER ITEMS. SEE SHT. 13 FOR ADDITIONAL INFORMATION ON TRAFFIC CONTROL.

3) THE ITEM 675.15, TRAFFIC SIGNAL CONTROL (MOD.) SHALL CONSIST OF ALL LABOR, MATERIALS, ETC., NECESSARY FOR THE MODIFICATION OF THE SIGNAL SYSTEM AT THE LINDENWOOD & QUELLEN CITY PARK ROAD INTERSECTION(S) AS OUTLINED ON THE PLANS.

4) ITEMS FOR TEMPORARY MARKINGS ARE LISTED ON THE PLAN SHEETS, HOWEVER PLACEMENT OF TEMPORARY MARKINGS SHALL BE AS SHOWN FOR APPROPRIATE USABLE MARKINGS. SEE THE ADDITIONAL NOTES REGARDING APPLICATION AND QUANTITY ESTIMATED UNDER TRAFFIC ITEM SUMMARY SECTION OF THIS SHEET.

5) THE NEW LANE SIGN, (M), SHALL MEET THE COLOR, MATERIAL AND TEXT REQUIREMENTS OF STD. E-15A.

SIGN DETAIL

COLORS
 LEGEND-BLACK (NON-REFL.)
 BACKGROUND-WHITE (REFL.)

LETTERS	A	B	C	D	E	F	G	H	I	J	K
	3/4	1 1/4	3	20 5/8	11	35 5/8	8	9 1/4	4 1/4	4 3/8	23 1/4

LETTERS	L	M	N	O	P	Q	R	S	T	U	V
	7 1/4	10 3/8	20 1/4	11 1/4	E	4 1/2	10	2	4	23 3/8	23 1/4

SURVEYED BY _____ DATE _____
 DRAWN BY _____ DATE _____
 TRACED BY _____ DATE _____

SOUTH BURLINGTON
 PROJ. NO. 101-4600
 SHEET 15 OF 27