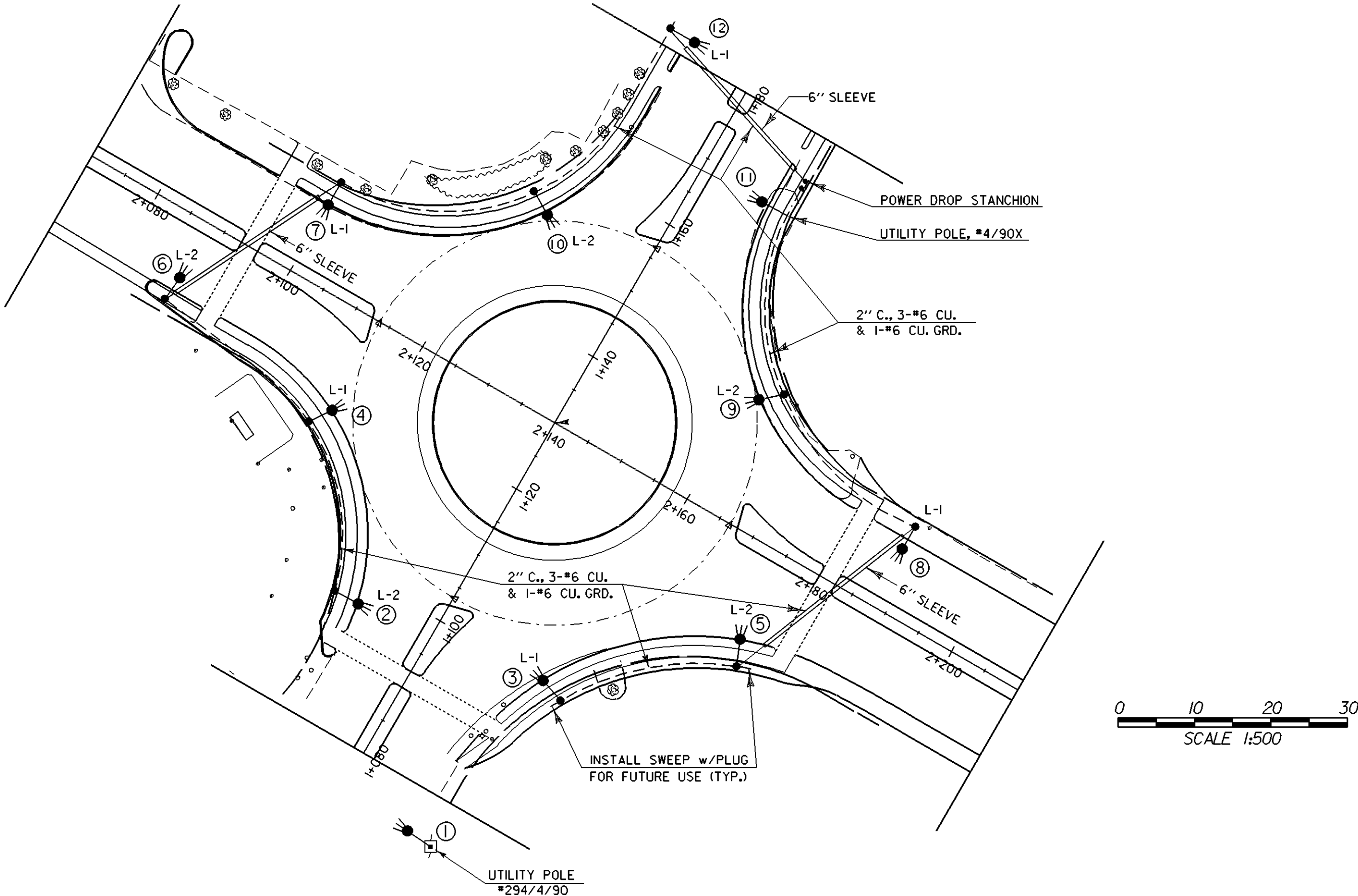




THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK AT THIS LOCATION:

1. PERFORM AN INSULATION TEST ON ALL CONDUCTORS EXCEPT THE GROUND CONDUCTOR (INCLUDING NEUTRAL--DISCONNECT FROM GROUND BEFORE TESTING). PERFORM A RESISTANCE TO GROUND TEST AT SPEC-IFIED GROUNDS, SEE VERMONT STANDARD SPECIFICATIONS 679.08. FURNISH THE TRAFFIC AND SAFETY SECTION VIA THE RESIDENT ENGINEER, THE READINGS OBTAINED FROM THE ABOVE TESTS.
2. AT EACH STREETLIGHT POLE LOCATION, INSTALL A CONCRETE POLE BASE, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS (FLAT AND LOCK) ALUMINUM POLE, LUMINAIRE ARM, LUMINAIRE, BREAKAWAY FEATURE (IF REQUIRED), WIRING, WATERPROOF DISCONNECT KITS AND CONDUIT SWEEPS.
3. INSTALL CONDUIT, SIZE, TYPE AND LOCATION AS NOTED ON THE PLANS.
4. INSTALL PULLBOXES WITH CONDUIT SWEEPS AS PER PLAN.
5. INSTALL ALL WIRING, SIZE AND TYPE AS PER PLAN AND/OR SPECIFICATIONS.
6. INSTALL RIGID PLASTIC (FOR NEW CONSTRUCTION) OR STEEL PIPE SLEEVES BY JACKING OR AUGERING AS PER PLAN.
7. INSTALL SWEEPS WITH PLUGS IN CONCRETE POLE BASES AND/OR PULLBOXES FOR FUTURE USE AS PER PLAN.
8. INSTALL METAL TAGS ON THE LIGHT POLES WITH THE INFORMATION AS NOTED AND DETAILED ON THE PLANS.
9. INSTALL PADLOCKS (MASTER PADLOCK #3220) ON ALL RAINTIGHT CABINETS
10. INSTALL A RAINTIGHT CABINET WITH METER SOCKET, MAIN DISCON-NECT AND INDIVIDUAL CIRCUIT BREAKERS. THE CABINET TO BE INSTALLED ON A STANCHION AS PER PLAN. INSTALL POLE RISER CONDUIT, WEATHERHEAD OR CONDULATOR AND ALL NECESSARY WIRING AND HARDWARE.
11. ALL THE ABOVE WORK WHICH IS NOT PAID FOR UNDER A SEPARATE ITEM NUMBER, SHALL BE PAID SUBSIDIARY TO OTHER STREET LIGHTING ITEMS.



WORK TO BE PERFORMED BY CENTRAL VERMONT PUBLIC SERVICE CORP.

PROVIDE FOR A 120/240 VOLT, 100 AMPERE, SINGLE PHASE, 3 WIRE DISTRIBUTION SYSTEM AT LOCATION SHOWN ON THE PLANS.

MONTHLY CHARGES FOR METERED SYSTEM SHALL BE BILLED TO: FLOYD ROBERTS, DISTRICT TRANSPORTATION ADMINISTRATOR, P.O. BOX 8236, NORTH BRATTLEBORO, VT. 05304.

INSTALL NEW LUMINAIRES ON TWO EXISTING UTILITY POLES AT STATIONS 1+074.6 RIGHT AND 1+168.7. INSTALL 250 WATT METAL HALIDE CUTOFF LUMINAIRES (FLAT LENS) ON EXISTING UTILITY POLES AT APPROXIMATELY A 30 FT. MOUNTING HEIGHT.

STREET LIGHTING LOCATIONS

POLE NO.	LOCATION	OFF-SET *	LENGTH OF POLE ARM	WALL THICKNESS	BREAK-AWAY	LUMINAIRE WATTS	TYPE	MOUNT HEIGHT	CONC. BASE	REMARKS
1	1+074.6 RT	EXISTING				250	II	EXISTING		C. V. P. S.
2	1+096.6 LT	13.9m	8.5m	2.4m	.48cm	NO	250	II	9.14m	.6X1.8m
3	1+098.9 RT	18.5	8.5	2.4	.48cm	NO	400	II	9.14	.6X1.8
4	1+114.1 LT	28.0	8.5	2.4	.48cm	NO	400	II	9.14	.6X1.8
5	1+114.6 RT	36.2	8.5	2.4	.48cm	NO	250	II	9.14	.6X1.8
6	1+118.4 LT	52.3	8.5	2.4	.48cm	NO	250	II	9.14	.6X1.8
7	1+143.1 LT	40.0	8.5	2.4	.48cm	NO	250	II	9.14	.6X1.8
8	1+141.8 RT	47.2	8.5	2.4	.48cm	NO	250	II	9.14	.6X1.8
9	1+148.2 RT	23.8	8.5	2.4	.48cm	NO	400	II	9.14	.6X1.8
10	1+154.8 LT	17.3	8.5	2.4	.48cm	NO	400	II	9.14	.6X1.8
11	1+168.7 RT	EXISTING				250	II	EXISTING		C. V. P. S.
12	1+182.3 LT	12.5	8.5	2.4	.48cm	NO	250	II	9.14	.6X1.8

* OFFSET FROM US-5 STATIONING

WIRED CONDUIT (65mm PVC Sch. 40 & 80)

- 1+168.7 RIGHT (POWER DROP) 8m, Sch 40
- 1+168.7 RIGHT (POWER DROP) 5m, Sch 80

WIRED CONDUIT (50 mm PVC Sch. 40)

- FROM POWER DROP STANCHION TO LIGHT POLE #2 - 160 m
- FROM POWER DROP STANCHION TO LIGHT POLE #3 - 115 m

ELECTRICAL CONDUIT (50 mm PVC Sch. 40 SWEEPS)

- AT LIGHT POLE BASES #2, #3, #5, #6, #7, #8 AND #12
- (TO BE CAPPED FOR FUTURE EXPANSION OF SYSTEM)

ELECTRICAL CONDUIT SLEEVES (150 mm)

- 1+117.7 RIGHT TO 1+140.5 RIGHT -24 m
- 1+119.5 LEFT TO 1+140.5 LEFT - 23 m
- 1+173.7 RIGHT TO 1+180.6 LEFT - 23 m

STREET LIGHTING DESIGN PARAMETERS

AVERAGE MAINTAINED HORIZONTAL ILLUMINATION

	RECOMMENDED	ACTUAL
ROADWAY AND SIDEWALK	-- 17.2 Lux	14.0 Lux
MINIMUM LUX	-- 2.2 Lux	3.2 Lux

FILTERED LUMINAIRE ---0.95, CHARCOAL FILTERED

LAMP LUMEN DEPRECIATION --250w.=0.64 @ 6,000 HOURS
400w.=0.55 @ 15,000 HOURS

COMBINED LAMP FACTOR -----250w.=0.61
400w.=0.52

UNIFORMITY RATIO -----4.2: 1

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		STREET LIGHT POLE
		CONDUIT
		SLEEVE
		POWER DROP STANCHION
L-1 = ONE LEG OF THREE WIRE CIRCUIT		
⑥ = LIGHT POLE NUMBER		

STREET LIGHT DETAIL

PROJECT: BRATTLEBORO	PROJECT NO.: NH 2000(18)
DESIGN FILE NAME: Zsqdc\93d\91\dd\91tc2.dgn	
IPARM FILE NAME: dd\91sl21.....	PLOT DATE: 8-APR-1999
SURVEYED BY:	SURVEY DATE:
SQUAD LEADER: MENABD	DRAWN BY: SQUAD C
	SHEET: 49 OF 67