

UTILIZING NOTED TEMPLATE, CUT AND FORM 1 INCH AND  $\frac{3}{4}$ " RIGID PLASTIC CONDUIT - SECURELY FASTEN 90° PLASTIC ELBOWS, PLASTIC TEE W/COVER AND 45° ELBOWS (WHEN APPLICABLE) TOGETHER BY SOLVENT CEMENT WELDING.

DRILL A MINIMUM OF THREE  $^{\prime}\!\!/_4^{\prime\prime}$  FOAM APPLICATION HOLES AS NOTED. AFTER DRILLING HOLES AND PRIOR TO PULLING THE REQUIRED TURNS OF LOOP CABLE INTO CONDUIT, THE FABRICATOR SHALL CLEAN ALL DEBRIS AND ACCUMULATION OF MOISTURE FROM THE CONDUIT INTERIOR.

3 TURNS OF NO. 18 AWG. - 4C CABLE SHALL THEN BE INSTALLED IN THE 1 INCH CONDUIT (TYPICAL TO ALL LOOPS PLACED IN THE BRIDGE DECK) AND 2 TURNS OF ND. 18 AWG. - 4C CABLE SHALL BE INSTALLED IN  $\frac{3}{4}$ " CONDUIT (WHICH IS TYPICAL FOR ALL LOOPS PLACED IN THE ROADWAY).

THE REMAINDER AND REQUIRED LENGTH OF LOOP CABLE FOR EACH RESPECTIVE JUNCTION BOX EITHER LOCATED IN THE TYPE IV PARAPET OF ADJACENT CURB/ROADWAY - SHALL BE COILED, TIED STORED IN A HEAVY PLASTIC BAG NEAR THE TEE CORNER UNTIL TRANSPORTED TO THE BRIDGE OR ROADWAY SITE FOR FURTHER FABRICATION AND INSTALLATION.

AFTER THE CABLE IS INSTALLED AND THE CONDUIT TEE COVER IS FASTENED IN PLACE THE PREFORMED DETECTION LOOP IS READY FOR THE POLYURETHANE INSTA-FOAM APPLICATION.

FOAM APPLICATION SHOULD START AT NOTED 1/4" PRE-DRILLED ELBOW HOLE MARKED () - APPLICATION SHOULD CONTINUE UNTIL THE FOAM MATERIAL CAN BE SEEN AT THE OTHER PRE-DRILLED HOLES NEAR THE CONDUIT TEE. THE FABRICATOR MAY HAVE TO DRILL ADDITIONAL HOLES IN THE LOOP CONFIGURATION CONDUIT - FOR ADDITIONAL FOAM APPLICATION TO ACHIEVE A COMPLETELY ENCAPSULATED CONDUIT INTERIOR.

THE AREA OF THE  $\frac{1}{4}$ " APPLICATION HOLE SHALL BE WIPED CLEAN OF FOAM RESIDUE AND TAPED OFF WITH  $1\frac{1}{2}$ " WIDE, 7 MIL, PREMIUM GRADE VINYL PLASTIC ELECTRICAL TAPE, IMMEDIATELY AFTER THE APPLICATION OF INSTA-FOAM.

THE SINGLE CONDUIT SECTIONS SHALL CONTAIN THE INPUT AND OUTPUT LOOP CABLES TO EACH RESPECTIVE JUNCTION BOX, SHALL REQUIRE THE SAME POLYURETHANE INSTA-FOAM FILL PROCEDURE AS FOLLOWED FOR THE PRE-FORMED LOOPS. THE FABRICATION OF THESE SECTIONS ARE PROBABLY BEST DONE IN THE FIELD UNDER CLIMATIC RESTRAINTS. REFER TO "PRE-FORMED LOOP INSTALLATION DETAILS".

AFTER COMPLETE FABRICATION OF LOOPS IT SHALL BE THE CONTRACTOR/ FABRICATORS RESPONSIBILITY TO SUITABLY STORE THE PRE-FORMED LOOPS INDOORS, IN SUCH A MANNER AS TO PROTECT THEM FROM DISTORTION UNTIL INSTALLED IN THE FIELD.

POLYURETHANE FOAM FILL ESTIMATING QUANTITIES					
TYPE	CONDUIT	CABLE FILL	NET	VOID	
6' X 6' LOOP	1'' PVC I.D. 1.049''	3 CABLES .00102265 CF/LF	.120	CF/LOOP	
6' X 6' LOOP	¾" PVC I.D824"	2 CABLES .00068176 CF/LF	.073	CF/LOOP	
CONDUIT SECTION/LF	1'' PVC I.D. 1.049''	2 CABLES .00068176 CF/LF	.005	CF/LF	
CONDUIT SECTION/LF	¾" PVC I.D824"	2 CABLES .00068176 CF/LF	.003	CF/LF	

LOOP DETAILS		NOTOVED NARY
1	English	Ar' MI M
IED LOOPS	COUNTY KEY NUMBER	PRELLINFORUCTIO
	SHEET OF	, C <sub>O</sub> ,