

CP-7: CATHODIC PROTECTION TEST STATION

- Cu/CuSO4 REFERENCE ELECTRODE,

SEE DETAIL CP-18.

SECTION A-A

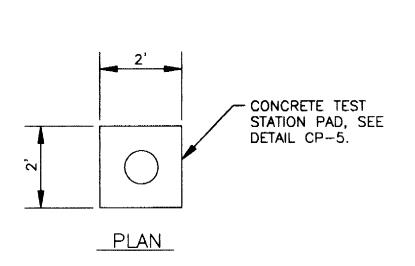
THERMITE WELD (TYPICAL),

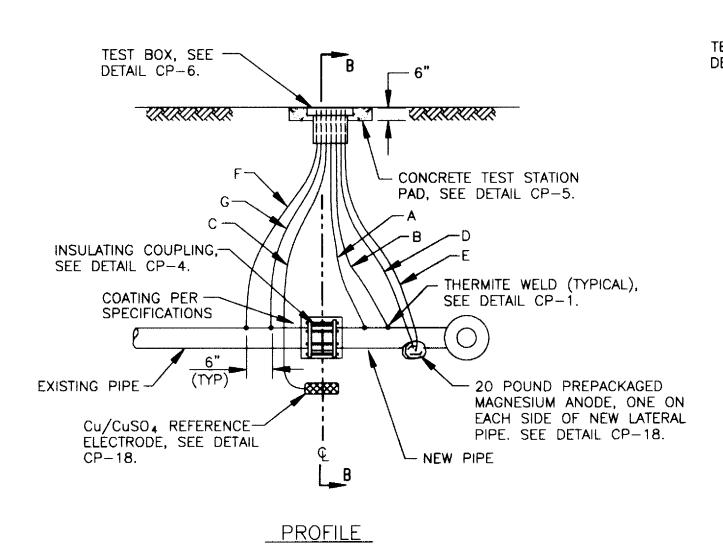
─ 20 POUND PREPACKAGED

MAGNESIUM ANODE (TYPICAL

OF 2), SEE DETAIL CP-18.

SEE DETAIL CP-1.



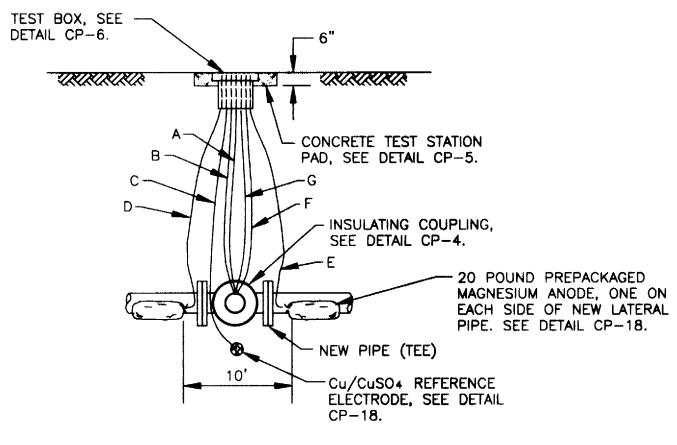


WIRING SCHEDULE AWG WIRE SIZE COLOR STATION TERMINAL WIRE DESCRIPTION INSULATION INSULATION BLUE THWN BLUE #14 HMWPE BLACK PERMANENT REFERENCE ELECTRODE MAGNESIUM ANODE TW BLACK LEAD WIRE (2) WHITE EXISTING THWN PIPE #10 WHITE THWN

NOTES:

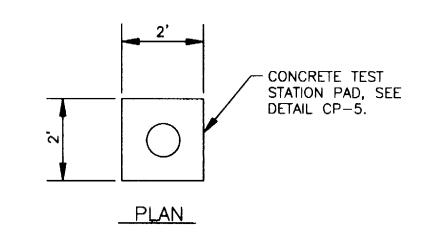
- 1. ANODES TO BE PLACED AT SAME DEPTH AS THE BOTTOM OF THE PIPE AND AT A MINIMUM OF 24" FROM EDGE OF PIPE. ANODES SHALL BE INSTALLED IN NATIVE EARTH
- AND NOT IN GRAVEL. SEE DETAIL CP-18 FOR PLACEMENT REQUIREMENTS.

 2. INSTALL ELECTRICAL ISOLATION ON ALL CONNECTIONS GREATER THAN 1-INCH DIAMETER TO DUCTILE IRON MAIN.
- 3. DO NOT SET TEST STATION IN ROADWAY. PLACE TEST BOX IN NON-PAVED AREA NEXT TO ROADWAY. ROUTE ALL WIRES TO FINAL TEST BOX LOCATION. SEE DETAIL CP-17.
- 4. INSTALL 0.01 OHM/8 AMPERE SHUNT BETWEEN TERMINALS 1 AND 4.



SECTION B-B

CP-8: INSULATING COUPLING TEST STATION



THERMITE WELD (TYPICAL),

NEW PIPE -

SEE DETAIL CP-1.

-20 POUND PREPACKAGED

MAGNESIUM ANODE (TYPICAL

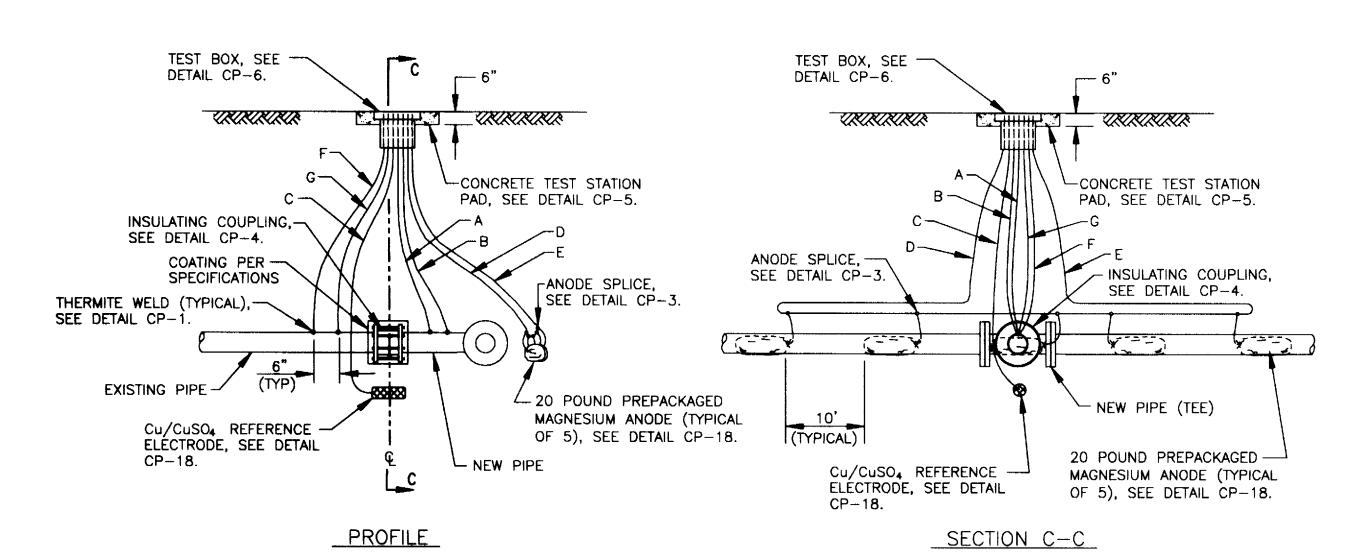
OF 2), SEE DETAIL CP-18.

NEW PIPE

Cu/CuSO4 REFERENCE— ELECTRODE, SEE DETAIL

PROFILE

CP-18.



	WIRING SCHEDULE						
DESCRIPTION	WIRE	TEST STATION TERMINAL	AWG WIRE SIZE	TYPE INSULATION	COLOR INSULATION		
NEW PIPE	A B	1 3	#10 #10	THWN THWN	BLUE BLUE		
PERMANENT REFERENCE ELECTRODE	REFERENCE ELECTRODE		#14	HMWPE	BLACK		
HEADER			#8 #8	HMWPE HMWPE	BLACK BLACK		
			#10 #10	THWN THWN	WHITE WHITE		

NOTES:

- 1. ANODES TO BE PLACED AT SAME DEPTH AS THE BOTTOM OF THE PIPE AND AT A MINIMUM OF 24" FROM EDGE OF PIPE. ANODES SHALL BE INSTALLED IN NATIVE EARTH AND NOT IN GRAVEL. SEE DETAIL CP—18 FOR PLACEMENT REQUIREMENTS.
- 2. DO NOT SET TEST STATION IN ROADWAY. PLACE TEST BOX IN NON-PAVED AREA NEXT TO ROADWAY. ROUTE ALL WIRES TO FINAL TEST BOX LOCATION. SEE DETAIL CP-17.
- 3. INSTALL 0.01 OHM/8 AMPERE SHUNT BETWEEN TERMINALS 1 AND 4.

	CATHODIC PROTECTION TEST STATION SCHEDULE U.S. ROUTE 1	••
	PORT CAPITAL DRIVE TO MEADOWRIDGE ROAD	
STATION NUMBER	TEST STATION TYPE	DETAIL NUMBER
194+50	INSULATING COUPLING & STRAY CURRENT	CP-9
197+10	INSULATING COUPLING	CP-8
199+06	INSULATING COUPLING & STRAY CURRENT	CP-9
203+00	CATHODIC PROTECTION	CP-7
207+00	CATHODIC PROTECTION	CP-7
211+00	CATHODIC PROTECTION	CP-7
214+90	INSULATING COUPLING	CP-8
217+85	INSULATING COUPLING	CP-8
220+30	INSULATING COUPLING	CP-8
221+76	INSULATING COUPLING	CP-8
226+00	CATHODIC PROTECTION	CP-7
230+30	INSULATING COUPLING	CP-8
231+38	INSULATING COUPLING	CP-8
235+25	CATHODIC PROTECTION	CP-7
239+09	INSULATING COUPLING	CP-8
239+20	INSULATING COUPLING & STRAY CURRENT	CP-9
243+10	CATHODIC PROTECTION	CP-7
247+00	INSULATING COUPLING & STRAY CURRENT	CP-9

CP-10: TEST STATION SCHEDULE

AS	BUILT	PLAN	-03/0

U.S. ROUTE 1
PORT CAPITAL DR. TO MEADOWRIDGE RD.
12" WATER MAIN EXTENSION
ELECTION DISTRICT NO. 1
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT W-8204
CONTRACT NO. 44-3805

SCALE: NONE SHEET 9 OF 10

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DEPARTMENT OF	F PUBLIC WORKS
HOWARD COUNTY	, MARYLAND
lan 1. Ju 11/8/99	CHEF, BUREAU OF ENGINEERING DATE
RECTOR OF PUBLIC WORKS DATE	CHEF, BUREAU OF ENGINEERING DATE
HEF, BUREAU OR UTILITIES DATE	CHIEF, WATER & SEWER DIVISION DATE
	Single Si





DES:	MJS	HEC	í	AS-BUILT PLANS- WATER MAIN	3/02	
DRN:	DJD					CATHODIC PROTECTION DETAILS
CHK:	MJS					
DATE:	10/99	BY	NO.	REVISION	NO.	600' SCALE MAP NO BLOCK NO