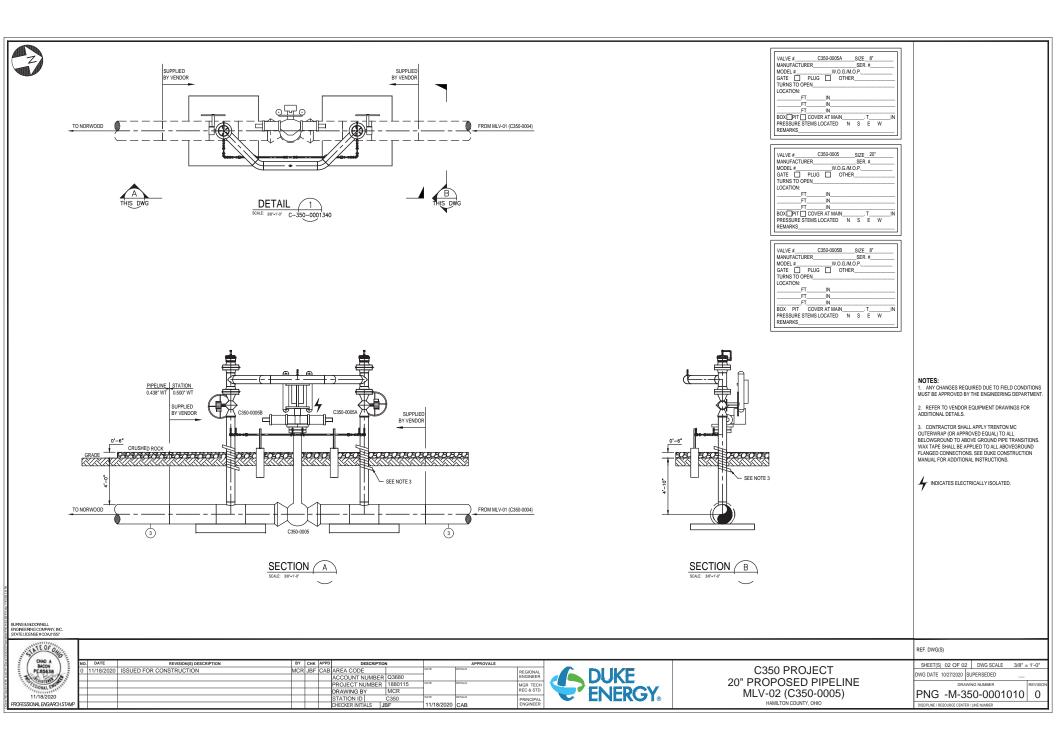


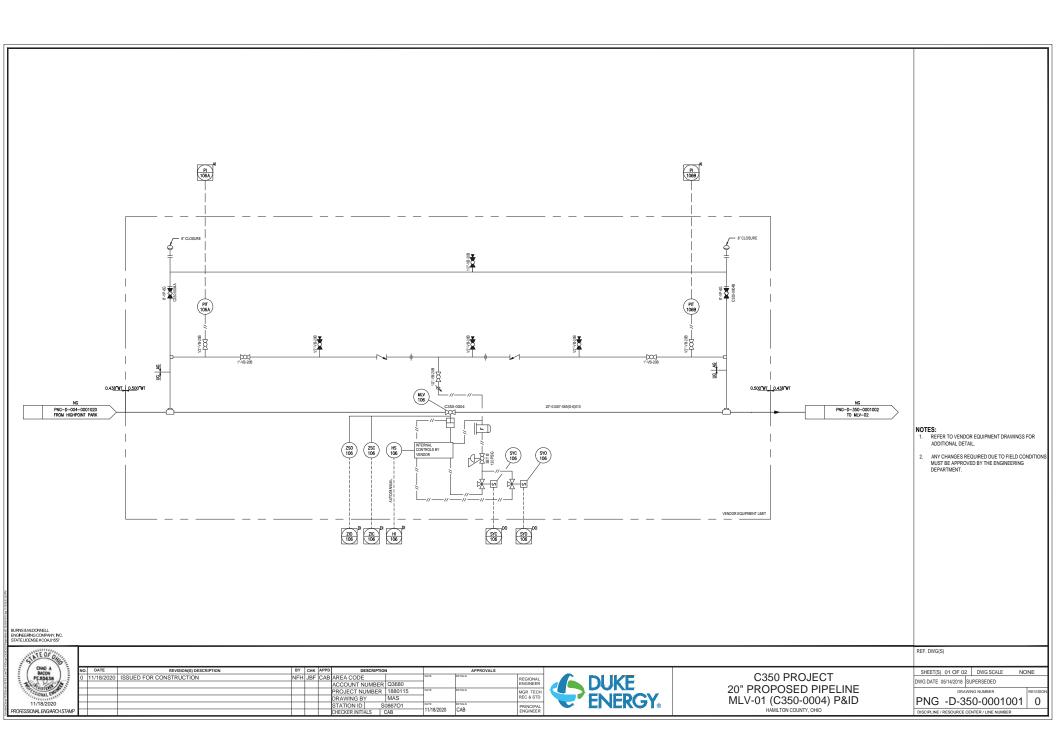
001	ICRETE THRUST BLC			
		ALLOWABL	E SOIL BEARING	PRESSURE
THRUST FROM TABLE I (LBS)	THRUST @60% (LBS)	1,000 PSF	1,500 PSF	2,000 PSF
2,500	1,500	18"X18"X8"	12"X12"X8"	12"X12"X8
5,000	3,000	20"X20"X8"	17"X17"X8"	15"X15"X8
7,500	4,500	26"X26"X12"	21"X21"X8"	18"X18"X8
10,000	6,000	30"X30"X12"	24"X24"X8"	21"X21"X8
15,000	9,000	36"X36"X18"	29"X29"X12"	25"X25"X12
20.000	12,000	42"X42"X18"	34"X34"X18"	29"X29"X1
25,000	15,000	46"X46"X24"	38"X38"X18"	33"X33"X18
30,000	18,000	51"X51"X24"	42"X42"X18"	36"X36"X18
40,000	24,000	59"X59"X24"	48"X48"X24"	42"X42"X1

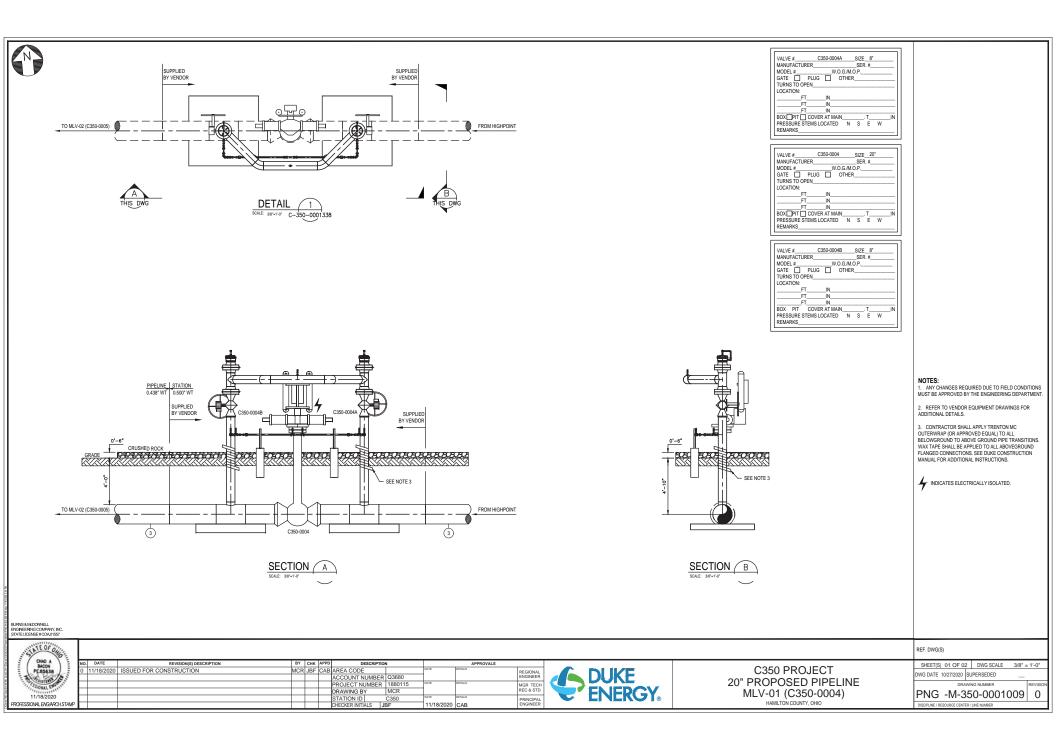
THRUST BLOCK AND REST BLOCK REINFORCEMENT
NONE
ONE LAYER OF 6"X6", 10/10
ONE LAYER OF #5 BARS ON 12" CENTERS BOTH WAYS LOCATED THREE INCHES FROM BOTTOM OF THE BLOCK
TWO LAYERS OF #5 BARS ON 12" CENTERS BOTH WAYS LOCATED THREE INCHES FROM TOP AND THREE INCHES FROM BOTTOM, WITH VERTICAL BARS ON 12" CENTERS

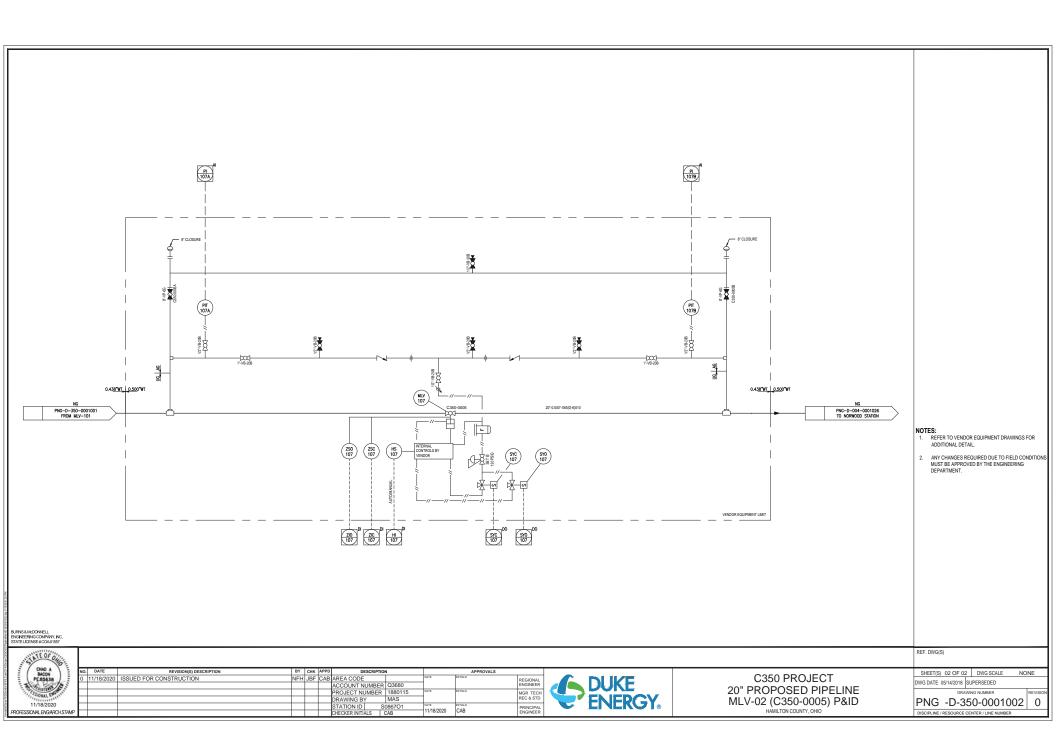
*STEEL REINFORCEMENT BAR SHALL CONFORM TO ASTM A-615

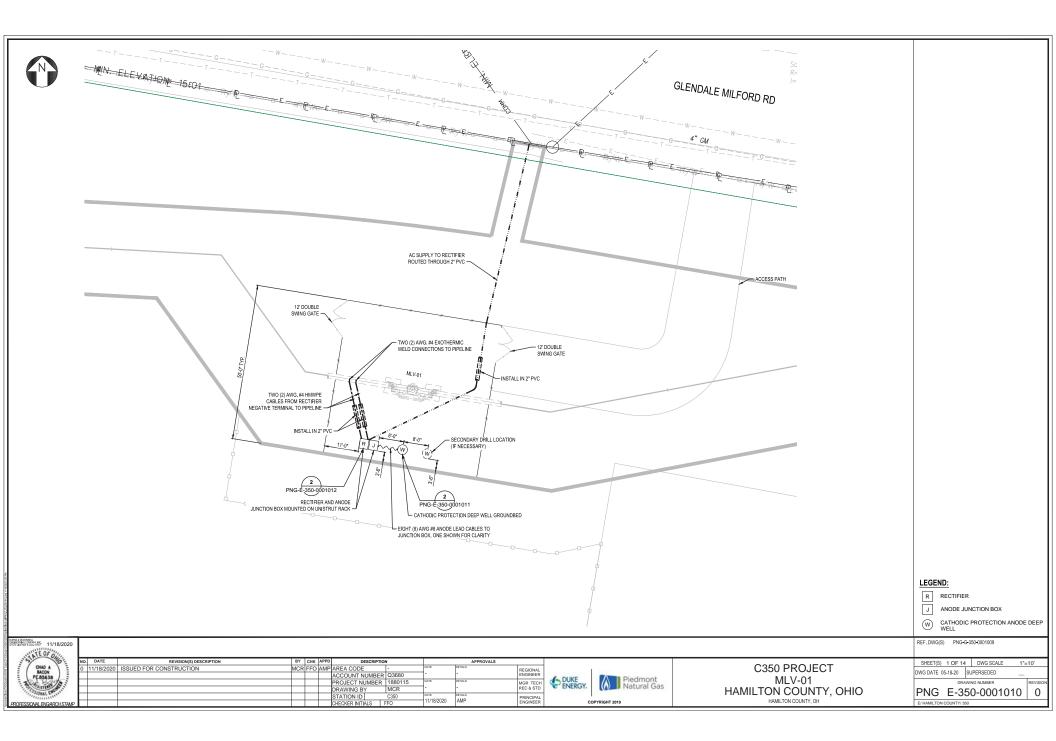
TE OF O													REF. DWG(S)	G-350-000	1009	
CHRISTOPHER D. WE SON D. WE SON	NO. DATE	REVISION(S) DESCRIPTION		CHK AF		N		APPROVALS					SHEET(S) 1 C	DF1 D	WG SCALE I	NONE
	0 11/18/2020	ISSUED FOR CONSTRUCTION	HEC	CNSC	DWAREA CODE		DATE	INITIALS	REGIONAL		10000	C350 PROJECT	DWG DATE 06-12-2	2020 01000	Deenen	
toutoner neller					ACCOUNT NUMBER		-	-	ENGINEER	C DUNE	Diadmont		DWG DATE 00-12-2	2020 30FEF	NGEDED -	_
					PROJECT NUMBER	1880115	DATE	INITIALS	MGR TECH REC & STD	DUKE ENERGY.	Piedmont Natural Gas	MAINLINE VALVE STRUCTURAL DETAILS		DRAWING N	UMBER	REVISION
OS/ONITE ET					DRAWING BY	HEC	-	-	REC & STD	EINERGT.	(() Natural Gas	HAMILTON COUNTY, OHIO	PNG -S	250	0001000	2 0
11/18/2020					STATION ID	C350	DATE	INITIALS	PRINCIPAL				FING -3	-300-	-0001002	2 0
PROFESSIONAL ENG/ARCH STAMP	ρ́				CHECKER INITIALS	CNS	11/18/2020	11/18/2020 CDW			COPYRIGHT 2019	HAMILTON COUNTY, OH	C/HAMILTON COUNTY/C350			

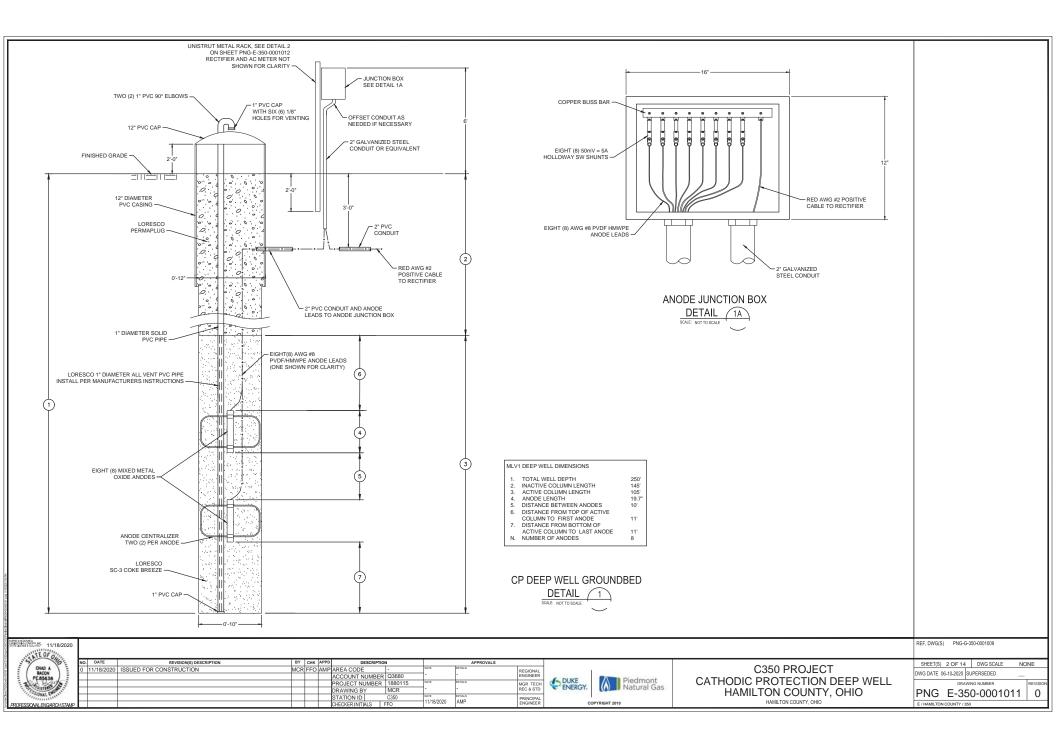


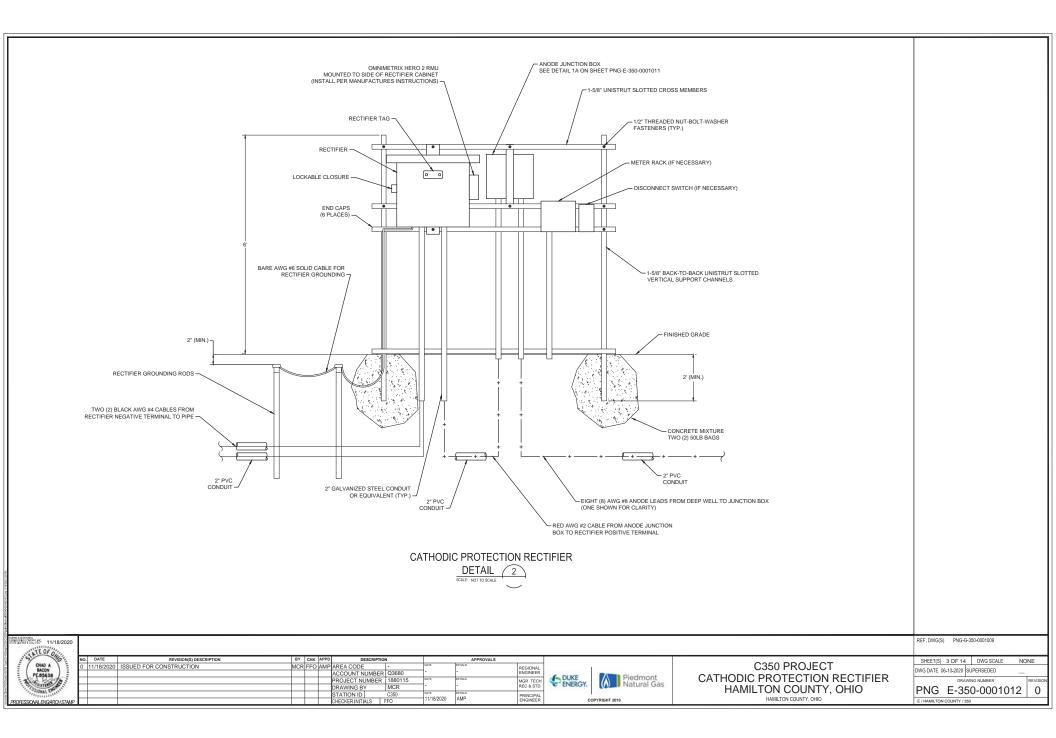


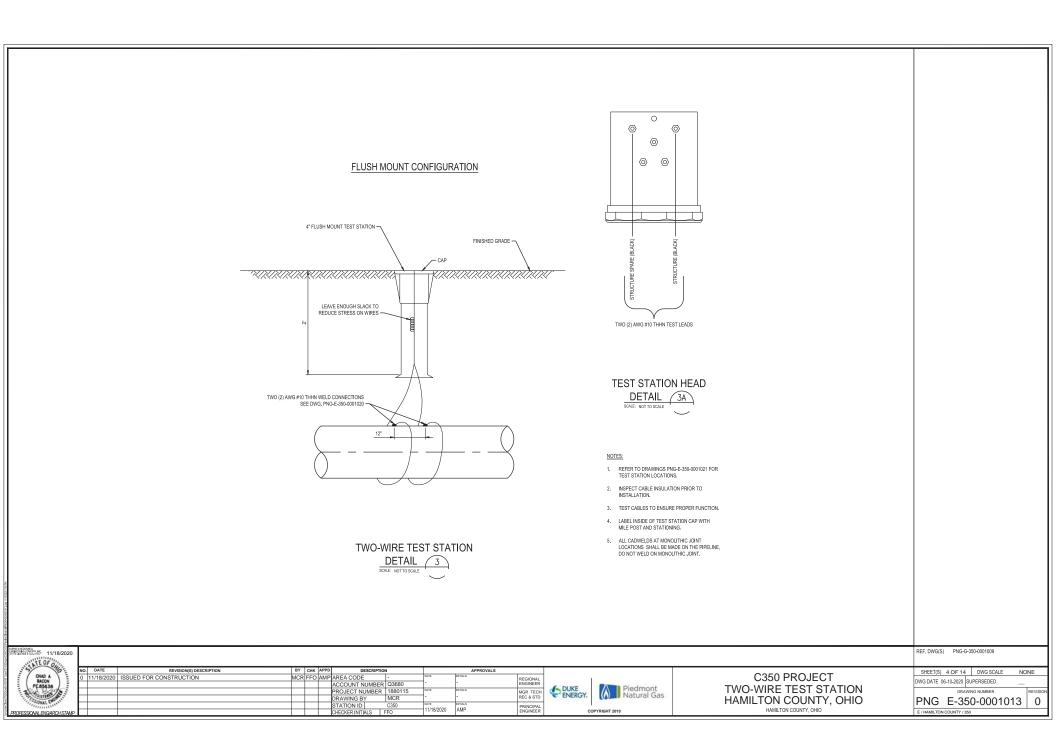


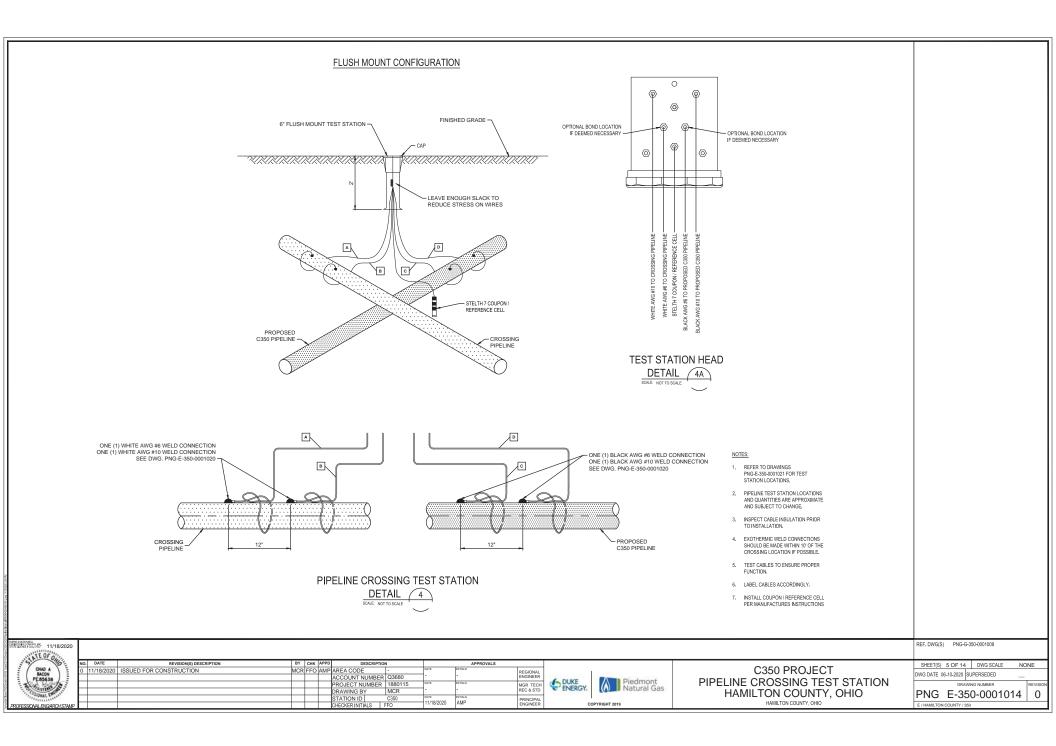


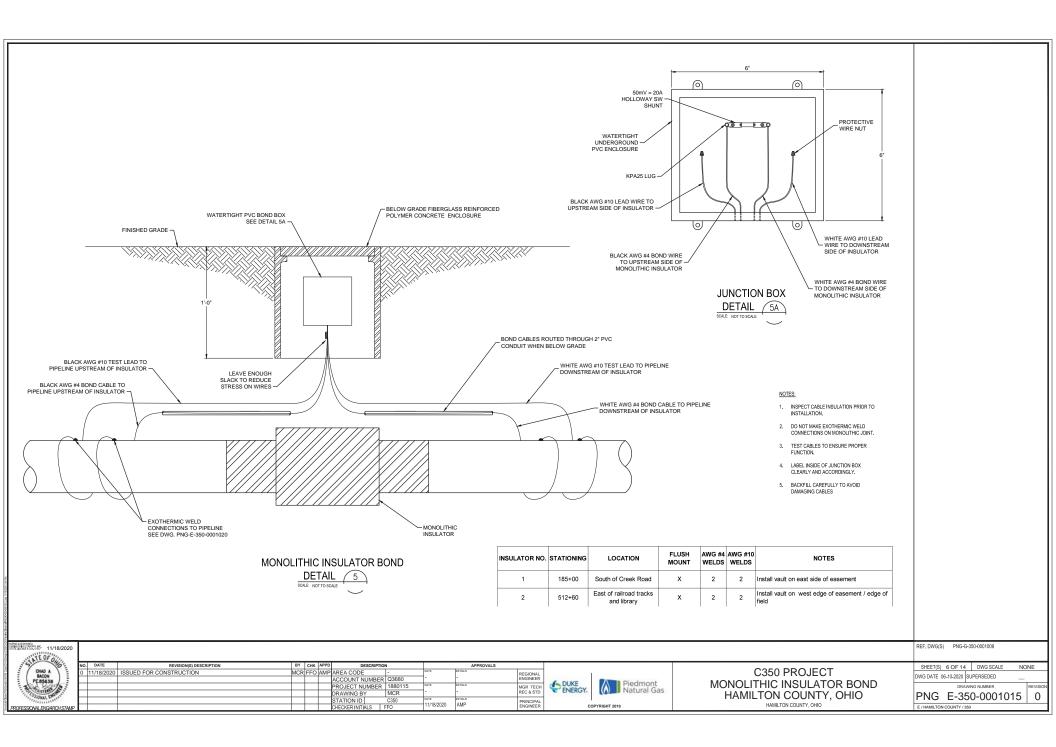


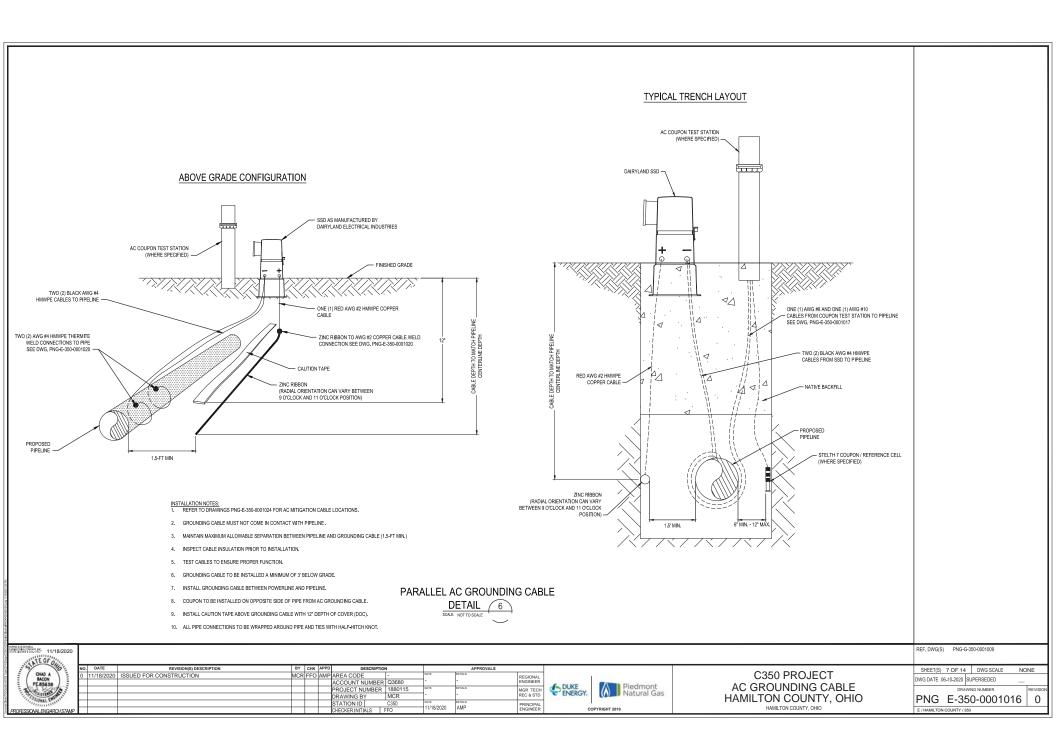


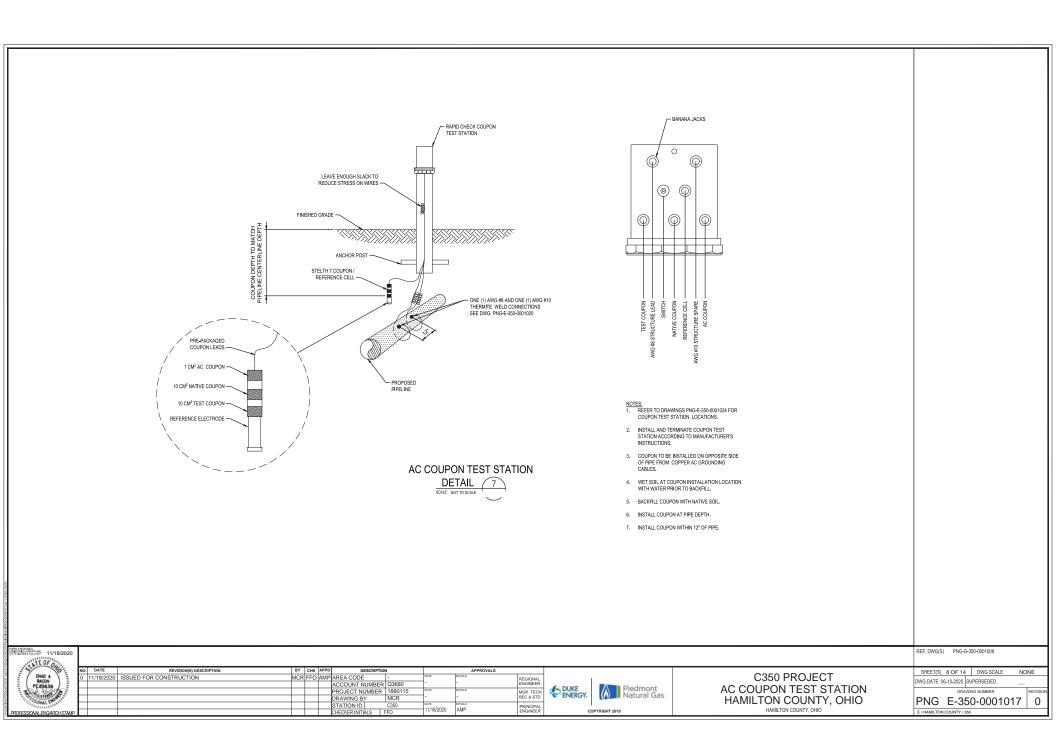


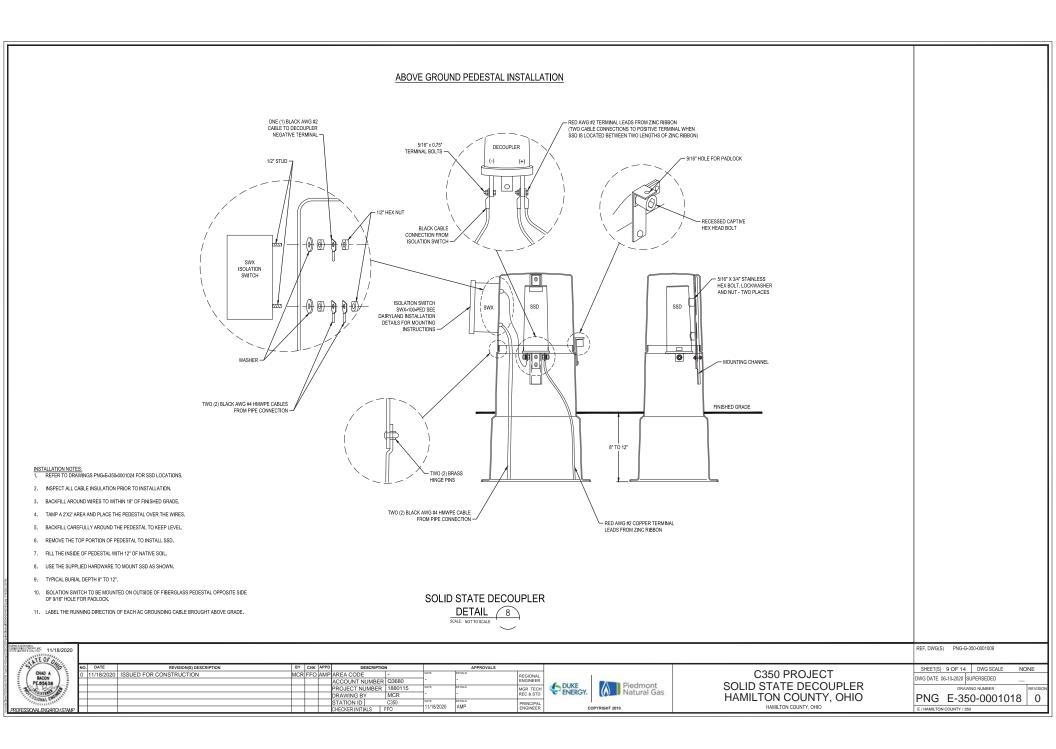


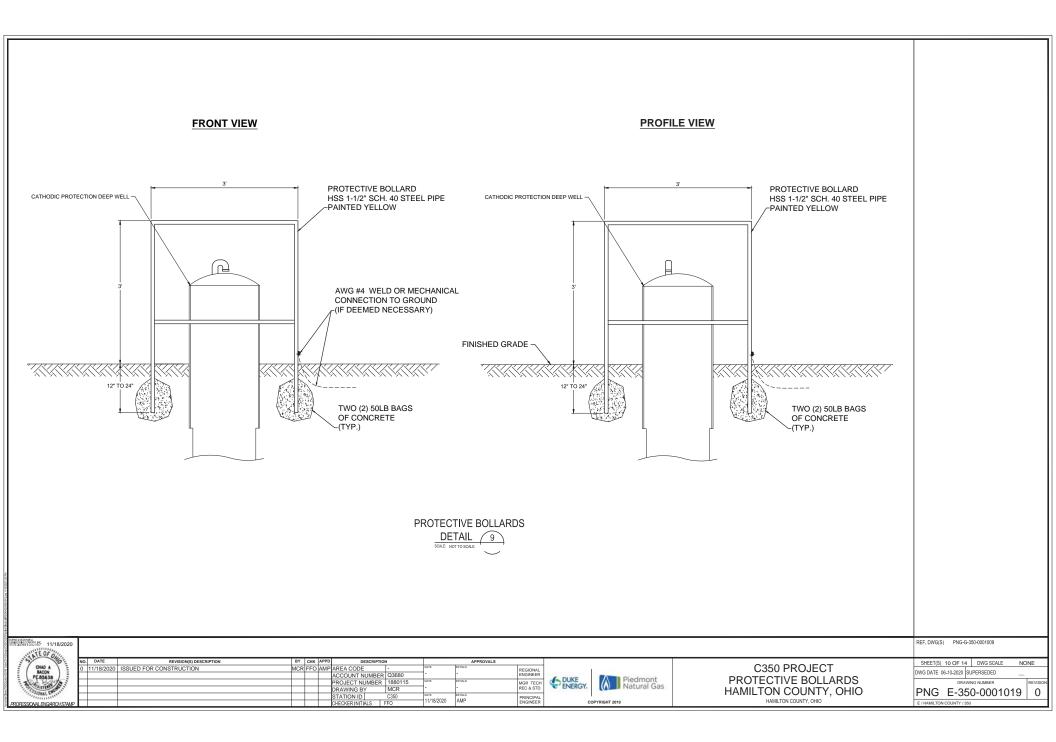


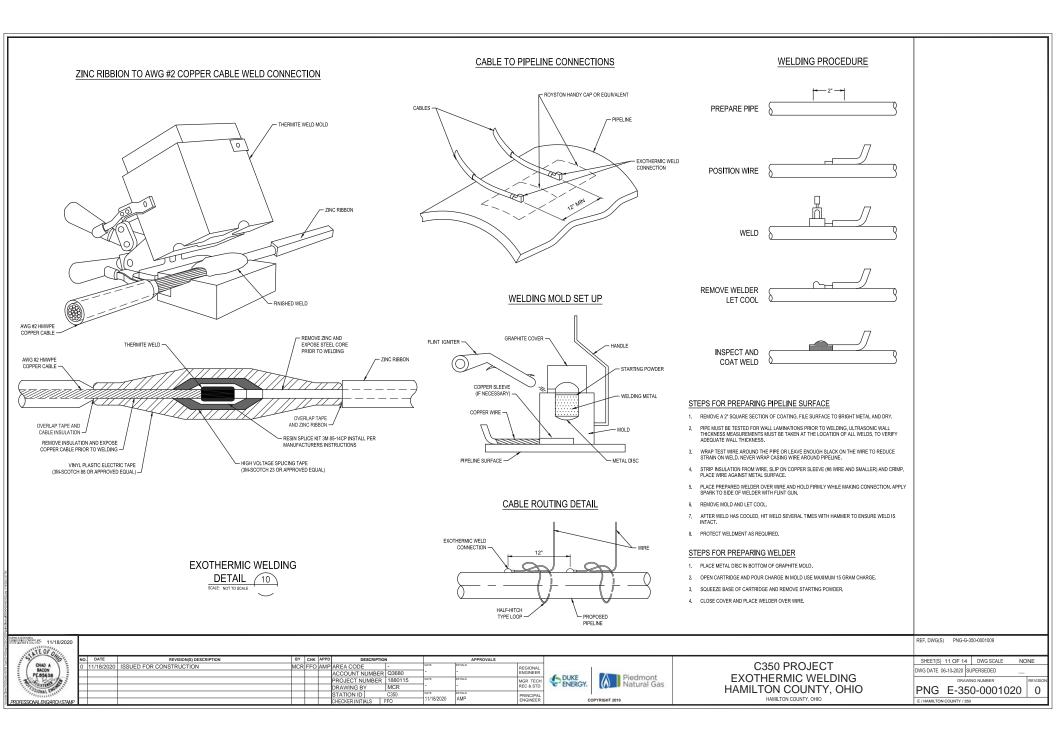












		0.17110													107.0		
			DIC PROTECTION EQUIPME	ENT SCHEI								IC PROTECTION EQUIPM		ULE (L	IST 2	•	
SITE	STATIONING	FEATURE(S)	LOCATION	FLUSH AWG MOUNT WEL	.DS WELDS	6 AWG #10 S WELDS	NOTES		E STATIO		FEATURE(S)	LOCATION	MOUNT WELDS	WELDS	WELDS	TS at 412+40, connects to pipeline crossing at	
1	12+70	2-Wire Test Station	West of Highpoint Park Station	x		2		4	412	2+40 Pipe	peline Crossing Test Station	South end of field	x	2	2	413+26	
2	22+50	2-Wire Test Station	West side of Conrey Road	x		2		4			peline Crossing Test Station	North of Alu Chem Plant	x	2	2	TS at 426+20, connects to 6" pipeline crossing at 425+66	
3	41+50	2-Wire Test Station	West side of Conrey Road near school	x		2	North end of HDD	4	435	5+80	2-Wire Test Station	East of railroad crossing	x		2		
4	56+75	2-Wire Test Station	PI East of Conrey Road	x		2		4	438	8+00 Pipe	peline Crossing Test Station	West of railroad crossing	×	2	2	TS at 438+00, connects to 6" pipeline crossing at 437+94	
5	67+25	2-Wire Test Station	West edge of parking lot, south of I-275	x		2		5	438	8+20 Pipe	peline Crossing Test Station	North end of West Street	x	2	2	TS at 438+20, connects to 6" pipeline crossing at 438+11	
6	75+00	2-Wire Test Station	Parking lot	x		2		5	442	2+35 Pipe	peline Crossing Test Station	West Street East of Parking Lot	x	2	2	TS at 442+35, connects to 6" pipeline crossing at 442+31	
7	79+45	Pipeline Crossing Test Station	East side of Grooms Road	x	2	2	TS at 79+45, connects to 6" pipeline crossing	5	446	6+60 Pipe	peline Crossing Test Station	West Street East of Soccer Field	x	2	2	TS at 446+60, connects to pipeline crossing at 446+64	
8	95+50	2-Wire Test Station	NW Corner of P&G Parking Lot	x		2	at 79+60, pull TS to north edge of driveway	5	457	7+00 Pipe	peline Crossing Test Station	North of West Street and West Pleasant Street Intersection	x	2	2	TS at 457+00, connects to 6" pipeline crossing at 457+15	
9	110+15	2-Wire Test Station	East of Reed Hartman Highway Crossing	x		2		5	461	1+25	2-Wire Test Station	Corner of Pleasant Street and Market Street	x		2	8,40,010	
10	112+45	2-Wire Test Station	West of Reed Hartman Highway Crossing	x		2		5		4+75 Pipe	peline Crossing Test Station	Market Street between Pleasant Street and Columbia Street	×	2	2	TS at 464+75, connects to 12" pipeline	
10	116+35	2-Wire Test Station	North of private drive	x		2		5	-			Market Street between Pleasant Street and Columbia	a X	2	2	crossing at 464+96 TS at 467+20, connects to 4" pipeline crossing at 467+27	
			,			_		5	_	8+85 Pipe	pointe orecend reer orector	Street Market Street between Columbia Street and Mechani Street		2	2		
12	123+40	2-Wire Test Station	South of Cornell Park Drive	X		2									-	TS at 468+85, connects to 4" pipeline crossing at 469+05	
13	130+60	2-Wire Test Station	South of Ashwood Drive	X		2		5	473	3+00 Pipe	peline Crossing Test Station	Mechanic Street West of Reading Road	X	2	2	TS at 473+00, connects to 8" pipeline crossing at 473+04	
14	136+00	2-Wire Test Station	North of Cornell Road	X		2	TC at 127+05 approach in Clinication	5	479	9+00	2-Wire Test Station	Corner of East Mechanic Street and 3rd street	x		2		
15	137+05	Pipeline Crossing Test Station	South of Cornell Road	×	2	2	TS at 137+05, connects to 6" pipeline crossing at 136+75	6	483	3+00	2-Wire Test Station	3rd Street Between Mechanic and Vine Street	x		2		
16	142+00	Pipeline Crossing Test Station	East of Reed Hartman Highway	x	2	2	TS at 142+00, connects to pipeline crossing at 141+89	6	487	7+30 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	x	2	2	TS at 487+30, connects to 4" pipeline crossing at 487+28	
17	146+25	2-Wire Test Station	North of Reed Hartman Highway Crossing	x		2		6	488	8+00 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	x	2	2	TS at 488+00, connects to 6" pipeline crossing at 488+09	
18	148+40	2-Wire Test Station	South of Reed Hartman Highway Crossing	x		2		6		8+75 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	x	2	2	TS at 488+75, connects to pipeline crossing at 488+63	
19	160+05	Pipeline Crossing Test Station	South of Osborne Blvd	x	2	2	TS at 160+05, connects to 4" pipeline crossing at 159+95	6	_			3rd Street Between Vine Street and E Benson Street	x	2	2	TS at 489+00, connects to 6" pipeline crossing	
20	169+45	2-Wire Test Station	North of Ilmenau Way	x		2			_							at 488+91 TS at 489+85, connects to 6" pipeline crossing	
21	175+75	2-Wire Test Station	East of Reed Hartman Highway	x		2		6	_			3rd Street Between Vine Street and E Benson Street	×	2	2	at 489+76	
22	181+15	2-Wire Test Station	West of Reed Hartman Highway, North of Creed Road	d X		2		6	490	0+00 Pipe	veline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	×	2	2	TS at 490+00, connects to 6" pipeline crossing at 489+90	
23	183+25	Pipeline Crossing Test Station	South of Creek Road	x	2	2	TS at 183+25, connects to 6" pipeline crossing at 183+03	6	491	1+70 Pipe	seline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	×	2	2	TS at 491+70, connects to 6" pipeline crossing at 491+77	
24	184+00	Monolithic Insulator Bond	South of Creek Road	X 2		2	Install in below grade fiberglass reinforced	6	492	2+55 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	×	2	2	TS at 492+55, connects to 6" pipeline crossing at 492+47	
25	190+25	2-Wire Test Station	Between parking lots	x		2	polymer concrete enclosure	6	492	2+85 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	×	2	2	TS at 492+85, connects to 6" pipeline crossing at 492+94	
25	198+00	Pipeline Crossing Test Station	North of Lake Forest Drive	x	2	2	TS at 198+00, connects to 6" pipeline crossing	7	493	3+80 Pipe	peline Crossing Test Station	3rd Street Between Vine Street and E Benson Street	x	2	2	TS at 493+80, connects to 6" pipeline crossing at 493+85	
26				x	2	2	at 198+18	7			peline Crossing Test Station	3rd Street between East Benson Street and East	x	2	2	TS at 494+60, connects to 6" pipeline crossing	
	199+00	2-Wire Test Station	South of Lake Forest Drive			_		7			2-Wire Test Station	Vorhees Street 3rd Street between East Benson Street and East	x	-	2	at 494+56	
28	217+50	2-Wire Test Station	North of Glendale Milford Road	X		2	TS at 222+05, connects to simpline		-			Vorhees Street		-		TS at 502+05, connects to 6" pipeline crossing	
29	222+95	Pipeline Crossing Test Station	West of Lake Forest Drive, North of Glendale Milford Road	x	2	2	TS at 222+95, connects to pipeline crossing at 222+90	7	-		peline Crossing Test Station	PI on south end of East Vorhees Street	X	2	2	at 502+14	
30	225+25	Pipeline Crossing Test Station	East of McKinley Road Crossing	x	2	2	TS at 225+25, connects to 12" pipeline crossing at 224+93	7		4+50	2-Wire Test Station	South of Vorhees Street	x		2		
31	227+20	Pipeline Crossing Test Station	West of McKinley Road Crossing	x	2	2	TS at 227+20, connects to pipeline crossing at 227+17	7	512	2+60 M	Monolithic Insulator Bond	East of railroad	X 2		2	Install in below grade fiberglass reinforced polymer concrete enclosure	
32	249+30	2-Wire Test Station	East of Plainfield Road Crossing	x		2		7	522	2+25	2-Wire Test Station	East of railroad crossing	x		2		
33	252+00	Pipeline Crossing Test Station	West of Plainfield Road Crossing	x	2	2	TS at 252+00, connects to 6" pipeline crossing at 252+33	7	523	3+50	2-Wire Test Station	West of railroad crossing	x		2		
34	278+40	Pipeline Crossing Test Station	Glendale Milford Road & Sharondale Road Intersection	x	2	2	TS at 278+40, connects to 4" pipeline crossing at 278+32	7	529	9+25 Pipe	peline Crossing Test Station	North of Merrell Lane	x	2	2	TS at 529+25, connects to 8" pipeline crossing at 529+18	
35	294+45	Pipeline Crossing Test Station	Glendale Milford Road, West of Giverney Boulevard	x	2	2	TS at 294+45, connects to 20" pipeline	7	543	3+40 Pipe	peline Crossing Test Station	South of East Galbraith Rd	x	2	2	TS at 543+40 connects to 12" pipeline crossing at 544+31 if possible	
36	294+70		Glendale Milford Road , West of Giverney Boulevard		2	2	crossing at 294+44 TS at 294+70, connects to 16" pipeline	8	559	9+25	2-Wire Test Station	North of P&G Plant	x		2		
36	303+90		Glendale Milford Road & Wyscarver Road Intersection		2	2	Crossing at 294+62 TS at 303+90, connects to 4" pipeline crossing	8	-	8+40 Pipe	peline Crossing Test Station	South of Sunnybrook Drive	x	2	2	TS at 568+40, connects to 6" pipeline crossing at 568+33	
						_	at 303+88 TS at 317+50, connects to 12" pipeline	8	-	1+20 Pipe	peline Crossing Test Station	North of Section Road	x	2	2	TS at 601+20 connects to 12' pineline	
38	317+50	Pipeline Crossing Test Station	Glendale Milford & Kingsport Drive Intersection	x	2	2	crossing at 317+24	8	-		2-Wire Test Station	South of Section Road	x	-	2	crossing at 601+43	
39	326+75	2-Wire Test Station	East of Reading Road Crossing	X		_	East end of HDD	8			2-Wire Test Station	East of railroad crossing	x		2		
40	344+00	2-Wire Test Station	PI West of Cunningham Drive, North of Glendale Milford Road	x		-	West of HDD		-								
41	346+00	Pipeline Crossing Test Station	South of Glendale Milford Road Crossing	x	2	2	TS at 346+00, connects to 12" pipeline crossing at 345+87	8	-		2-Wire Test Station	East of railroad crossing	X	-	2		
42	367+80	2-Wire Test Station	South end of Evendale Commons Drive	x		2		8	_		2-Wire Test Station	East of railroad crossing	x		2	TO 11 000 10	
43	373+75	Pipeline Crossing Test Station	North of Formica Plant Access Road	x	2	2	TS at 373+75, connects to pipeline crossing at 373+81	8	_	8+40 Pipe	peline Crossing Test Station	North of Losantiville Ave	x	2	2	TS at 628+40, connects to 6" pipeline crossing at 628+47	
44	377+25	2-Wire Test Station	East of railroad crossing	x		2		8	664	4+55	2-Wire Test Station	South of Langdon Farm Road	x		2		
45	379+50	2-Wire Test Station	West of railroad crossing	x		2		8	678	8+50 Pipe	peline Crossing Test Station	North of Station Fence	x	2	2	TS at 678+50, connects to 20" pipeline crossing at 678+56	
REPOSANCOOMEL		1	1	1 I	1					1							DEE DIA(C(S) DIA(C 0.250.0004000
11																	REF. DWG(S) PNG-G-350-0001009
STATEOFO	NO.	DATE	REVISION(S) DESCRIPTION		BY CHK		DESCRIPTION	APPROVALS						<u> </u>			SHEET(S) 12 OF 14 DWG SCALE NONE
CHAD A BACON) 0	11/18/2020 ISSUED FO	R CONSTRUCTION		MCR FFO	AMP AREA	CODE - DATE UNT NUMBER Q3680	NITIALS		REGIONAL						ROJECT	DWG DATE 06-10-2020 SUPERSEDED
PE85438						PROJE	ECT NUMBER 1880115	NITIALS		MGR TECH	DUKE ENERGY.	Natural Gas CATH				N EQUIPMENT SCHEDUL	E DRAWING NUMBER REVI:
SSIONAL D	an and a second					STATI	ON ID C350 DATE	20 AMP		PRINCIPAL ENGINEER			HAN			COUNTY, OHIO	PNG E-350-0001021 0
PROFESSIONAL ENG/A	RCHSTAMP					CHECK	ER INITIALS FF0 11/18/20	ZU AMP	E	ENGINEER	COPYRI	IGHT 2019		н	AMILTON	COUNTY, OHIO	E / HAMILTON COUNTY / 350
	-				-	-			-	-			-	-			

ZONE	SITE NO.	STA.	SSD	SWX ISOLATION SWITCH	AC COUPON TEST STATION	ZINC RIBBON LENGTH (FT)	AWG #4 WELDS	AWG #8 WELDS	AWG #10 WELDS	LOCATION DESCRIPTION	NOTES	
	1	382+25	х	х		-	2			North of Formica Plant		
1	2	394+75	х	х		1250	2			West of Formica Plant		
	3	407+25	х	х	х	1250	2	1	1	South of Formica Plant		
2	4	445+25	х	х	x	-	2	1	1	East of Soccer Field	Install near utility pole	
2	5	457+00	х	х		1175	2			Pleasant Ave North of Cemetery	Install near utility pole	
3	6	534+40	х	х		-	2			East of driveway	Install near line marker	
	7	543+40	х	х	х	900	2	1	1	North of E Galbraith Rd Crossing		
	8	546+85	х	х		-	2			North of Highway 126	Install near utility pole	
4	9	566+35	х	x	x	1950	2	1	1	North of Sunnybrooke Drive	Install near utility pole	
	10	586+35	х	x	x	2000	2	1	1	Field west of HVAC transmission line		
	1											
5	11	613+75	х	х		-	2			West of railroad	Install near line marker	
	12	618+35	х	Х	X	460	2	1	1	West of railroad	Install near line marker	
	1						1					
	13	629+40	х	x		-	2			South of Losantiville Ave Crossing	Install near utility pole	
6	14	638+15	х	x	X	875	2	1	1	West of railroad		
	15	649+15	х	x		1100	2			East of Baseball Fields	Install near utility pole	
	16	660+00	x	х	X	1085	2	1	1	Alley NE of Eagle Court	Install near utility pole	

CATHODIC PROTECTION & AC MITIGATION BILL OF MATERIALS

EST (QTY	UOM AS-BUIL	LT QTY DESCRIPTION CAD WELDS & CONNECTIONS	MAXIMO PART X	NOTES	MODEL NO	MATERIAL SOURCE	
1	18	PKG	CAD WELDS & CONNECTIONS CA-15 WELD METAL (20/PACK)	NON-STOCK	WELD METAL, CABLE TO PIPE CONNECTIONS	CA-15	ERICO	
2	2	PKG	CA-32 WELD METAL (20/PACK)	NON-STOCK	WELD METAL, AWG #2 TO ZINC RIBBON CONNECTIONS	CA-32	ERICO	
1	1	EA	CASST-1V, AWG #2 STRANDED CABLE WELDER	NON-STOCK	AWG #2 CABLE TO ZINC RIBBON CONNECTION	CASST-1V	ERICO	
+ +	2	EA	CAHAA-1L, AWG #4 STRANDED CABLE WELDER CAHAA-1H, AWG #6 STRANDED CABLE WELDER	NON-STOCK NON-STOCK	AWG #4 CABLE TO PIPE CONNECTION AWG #6 CABLE TO PIPE CONNECTION	CAHAA-1L CAHAA-1H	ERICO	
+ 1	10	EA	CARHAY-H, AWG H5 INKANUED LABLE WELDER CAB-133-LL, DAPTER SLEEVE FOR AWG H3, FOR USE IN AWG H4 WELDER	NON-STOCK	AWG #6 CABLE TO PIPE CONNECTION AWG #8 CABLE TO PIPE CONNECTION	CAB-133-1L	ERICO	
	200	EA	CAB-133-1H, ADAPTER SLEEVE FOR AWG #10, FOR USE IN AWG #6 WELDER	NON-STOCK	AWG #10 CABLE TO PIPE CONNECTION	CAB-133-1H	ERICO	
2	2	EA	FLINT IGNITOR FOR THERMITE WELDING, T320	NON-STOCK	CADWELD IGNITOR	T320	ERICO	
	330	EA	ROYSTON HANDY CAP	1552880	CABLE TO PIPE WELD PROTECTION		ROYSTON	
	20	EA	SPUEC RT, 85-14CP	NON-STOCK NON-STOCK	AWG#2 TO ZINC RIBBON WELD PROTECTION AWG#2 TO ZINC RIBBON WELD PROTECTION	85-14CP	3M 3M	
1	5	EA	SUPER 88 TAPE, 66FT ROLL SCOTCH 23 HIGH VOLTAGE TAPE	NON-STOCK NON-STOCK	AWG#2 TO ZINC RIBBON WELD PROTECTION AWG#2 TO ZINC RIBBON WELD PROTECTION		3M 3M	
f	6	PKG	COMPRESSION RING TERMINAL, AWG #2 WITH 1/2"HOLE, YAD2CM12E12 (5/PACK)	NON-STOCK	AWG#2 TO SSD CONNECTION	YAD2CM12E12	BRUNDY	
8	8	PKG	COMPRESSION RING TERMINAL, AWG #4 WITH 1/2" HOLE, YAD4CM12E12 (5/PACK)	NON-STOCK	PIPE TO SSD CONNECTION	YAD4CM12E12	BRUNDY	
—			WIRE					
	000 500	FT	BLACK AWG #10, THHN COATED SOLID COPPER WIRE WHITE AWG #10, THHN COATED SOLID COPPER WIRE	NON-STOCK NON-STOCK	TEST STATION TO PIPE CONNECTION TEST STATION TO PIPE CONNECTION		GENERIC GENERIC	
	100	FT	BLACK AWG #12 / IMIN COATED SCILD COPPER WIRE BLACK AWG #8, THIN COATED STANDED COPPER WIRE	NON-STOCK	TEST STATION TO PIPE CONNECTION TEST STATION TO PIPE CONNECTION		GENERIC	
250	500	FT	BLACK AWG #6, THHN COATED STRANDED COPPER WIRE	NON-STOCK	TEST STATION TO PIPE CONNECTION		GENERIC	
250	500	FT	WHITE AWG #6, THHN COATED STRANDED COPPER WIRE	NON-STOCK	TEST STATION TO PIPE CONNECTION		GENERIC	
50		FT	BARE AWG #6 SOLID COPPER WIRE	NON-STOCK	RECTIFIER GROUNDING CONNECTION		GENERIC	
150		FT	BLACK AWG #4, HWWPE COATED STRANDED COPPER WIRE	NON-STOCK	SSD TO PIPE CONNECTION, RECTIFIER TO PIPE CONNECTION		GENERIC	
	250 550	FT FT	WHITE AWG #4, HMWPE COATED STRANDED COPPER WIRE RED AWG #2, HMWPE COATED STRANDED COPPER WIRE	NON-STOCK NON-STOCK	MONOLITHIC INSULATOR JUNCTION BOX CABLE ZINC RIBBON TO SSD CONNECTION		GENERIC GENERIC	
0.0	50		RED AWG #2, HMWPE COATED STANDED COPPEN WIRE TEST STATIONS & JUNCTION BOXES	NUN-STOCK	ZINC RIBBON TO 550 CONNECTION		GENERIC	
4:		EA	4" FLUSH MOUNT TEST STATION, 4 TERMINAL POSTS	NON-STOCK	TWO-WIRE TEST STATION (FLUSH MOUNT)	P4HHD	BINGHAM AND TAYLOR	
	46	EA	6" FLUSH MOUNT TEST STATION, 8 TERMINAL POSTS	NON-STOCK	PIPELINE CROSSING TEST STATION (FLUSH MOUNT)	P668DT	BINGHAM AND TAYLOR	
8	8	EA	RAPID CHECKA COUPON TEST STATION, YELLOW	NON-STOCK	AC COUPON TEST STATION	204 000 4 000	FARWEST	
54		EA	BORIN STELTH 7 ELECTRODE WITH ONE 11/2000 BORIN STELTH 7 ELECTRODE WITH SOFT LEAD WIRE 12" H V 16" W CALVANIZED ENCLOSUBE WITH ONE 11/2000 BUILS BAR ELECTRODE AND E AU OUT ONLY SEVEN ELECTRODE AND E ALCORE ONE ELECTRODE AND E ALCORE ONE ELECTRODE AND E ALCORE ONE ALCORE	1575566	AC/DC COUPON, PIPELINE CROSSING TEST STATIONS	SRE-024-CIY-AC20	BORIN	
1	1	EA	12" H X 16" W GALVANIZED ENCLOSURE WITH ONE (1) COPPER BUSS BAR, EIGHT (8) 50 MV = 5 A HOLLOWAY SW SHUNTS, EIGHT (8) KA-4C CIRCUIT LUGS FOR AWG #8 CABLE, ONE (1) KPA-25 HEADER LUG FOR AWG #2 CABLE, TWO(2) 2" STEEL CONDUIT POSTS	NON-STOCK	DEEP WELL ANODE JUNCTION BOX		UNIVERSAL	
+	2		(1) KPA-25 HEADER LOG FOR AWG #2 CABLE, I WO[2/2 STEEL CONDUIT POSTS SOMV = 20A HOLLOWAY SW SHURT	NON-STOCK	MONOLITHIC INSULATOR BOND/SHUNT		HOLLOWAY	
7	2	EA	BELOW GRADE FIBERGLASS REINFORCED POLYMER CONCRETE ENCLOSURE, 13" x 24" x 15"	NON-STOCK	MONOLITHIC INSULATOR BOND VAULT		GENERIC	
2	2	EA	WATERTIGHT PVC BOND BOX	NON-STOCK	MONOLITHIC INSULATOR BOND BOX		GENERIC	
			DEEP WELL					
3	3	EA	SOLID PVC CASING, 122 DIA, X 201 EENGTHS, BELL ENDS	NON-STOCK	DEEP WELL PASSIVE ZONE PVC CASING		GENERIC	
5	5	EA	ALL-VENT 1" DIA, PVC PIPE, 20' LENGTHS 10" VENTEALIZED (CENTEALIZED) TWO DEP ANODE	NON-STOCK NON-STOCK	DEEP WELL ACTIVE ZONE VENT PIPE ANODE CENTRALIZER	VENTRALIZER	LORESCO ELTECH	
1	1	EA	10" VENTRALIZER (CENTRALIZER), TWO PER ANODE 12" DIA. PVC CAP	NON-STOCK	DEEP WELL CAP	VENTRALIZEN	GENERIC	
5	8	EA	1" DIA. SOLID PCV PIPE, 20' LENGTHS	NON-STOCK	DEEP WELL PASSIVE ZONE VENT PIPE		GENERIC	
2	2	EA	1" DIA. PVC CAP	NON-STOCK	VENT PIPE CAP		GENERIC	
40	40	EA	1" DIA. PVC COUPLINGS	NON-STOCK	VENT PIPE COUPLINGS		GENERIC	
1	2	EA FT	1" DIA. 90 DEGREE SOLID PVC ELBOWS 2" PVC CONDUIT, 20' LENGTHS	NON-STOCK	VENT PIPE ELBOWS RECTIFIER/ANODE CABLE CONDUIT		GENERIC GENERIC	
	-0 +	- FI	Z ² PVCC0VDUT, ZCTENGTHS RECTIFIER	NON-STOCK	KECTIFIER/ANUDE CABLE CONDOT		GENERIC	
	1	EA	30V/15A AIR-COOLED RECTIFIER, TYPE: ASAI3015AACR WITH 50 MV = 15 A HOLLOWAY SW SHUNT, HOT DIPPED GALVANIZED CABINET WITH NO MANUFACTURES EXTERNAL	NON-STOCK	RECTIFIER	ASAI5015AACR	UNIVERSAL	
1	1	EA	OMNIMETRIX HERO 2 RMU	NON-STOCK	REMOTE MONITORING UNIT	HERO 2	OMNIMETRIX	
2	2	EA	CONDUIT RIDGED STEEL, 2", 20 LENGTHS	NON-STOCK	RECTIFIER/JUNCTION BOX CABLE CONDUIT	_	GENERIC	
8	8	EA	GALVANIZED STEEL CLAMPS, 2" LOCKNUTS, 2"	NON-STOCK NON-STOCK	RECTIFIER/JUNCTION BOX CABLE CONDUIT RECTIFIER/JUNCTION BOX CABLE CONDUIT		GENERIC	
1	8	EA	LUCRING, Z INSULATING HUB, 2"	NON-STOCK	RECTIFIER/JUNCTION BOX CABLE CONDUIT		GENERIC	
1	4	EA	GROUND ROD, 5/8" X 8" COPPER	NON-STOCK	RECTIFIER GROUNDING		GENERIC	
4	4	EA	GROUND ROD CLAMP, 5/8"	NON-STOCK	RECTIFIER GROUNDING		GENERIC	
4	4	EA		NON-STOCK	RECTIFIER/JUNCTION RACK FOUNDATION	P1001T	GENERIC	
4	2	EA	1-5/8" X 3-1/4", 12 GAGE BACK-TO-BACK SLOTTED UNISTRUT, 8-FT LENGTHS 1-5/8" X 1-5/8", 12 GAGE SLOTTED UNISTRUT, 6-FT LENGTHS	NON-STOCK NON-STOCK	RECTIFIER RACK, VERTICAL MEMBERS RECTIFIER RACK, HORIZONTAL MEMBER	P1001T P1000T	UNISTRUT	
F	6	EA	1-5/6 VETE DIASTIC END CAPS	NON-STOCK	RECTIFIER RACK END CAPS	P2860	UNISTRUT	
,	1	PKG	1/2" HEX BOLT, 1-1/2" LENGTH (50/BOX)	NON-STOCK	RECTIFIER RACK FASTENERS		GENERIC	
1	1	PKG	1/2" FLAT WASHER (50/BOX)	NON-STOCK	RECTIFIER RACK FASTENERS		GENERIC	
1	1	PKG	1/2" HEX NUT (50/80X)	NON-STOCK	RECTIFIER RACK FASTENERS		GENERIC	
8	0	EA	ANODES & BACKFILL MIXED METAL OXIDE TUBULAR ANODE, 1" DIA. X 20" LENGTH WITH 280' AWG #8 PVDF/HMWPE CABLE	NON-STOCK	DEEP WELL ANODES	2.5/50	DE NORA	
	8 90	EA	MIXED METAL OXIDE TUBULAR AND/E, 1° DIA: X 20 TAVG #8 PVDF/HIMWPE CABLE LORESCO SC 3 (50LB 84GS)	NON-STOCK	DEEP WELL AND DES DEEP WELL ACTIVE ZONE BACKFILL	2.5/50 SC-3	LORESCO	
	160	EA	LORESCO PERMAPLUG (SOLB BAGS)	NON-STOCK	DEEP WELL PASSIVE ZONE BACKFILL	PERMAPLUG	LORESCO	
			AC GROUNDING / DECOUPLERS					
	16	EA	SOLID STATE DECOUPLER	NON-STOCK	SOLID STATE DECOUPLER (SSD)	SSD-2/2-5.0-100-R	DAIRYLAND	
10		EA	MECHANICAL ISOLATION SWITCHES, SWX-100-PED	NON-STOCK	SSD EXTERNAL DISCONNECT SWITCH	SWX-100-PED	DAIRYLAND	
16		EA	MTL LEAD KIT FOR ISOLATION SWITCH, MTL-2-32-SWS 36" FIBERGLASS PEDESTAL FOR SSD MOUNTING, MTP-36	NON-STOCK NON-STOCK	SSD TO SWITCH CONNECTION SSD PEDESTAL	MTL-2-32-SWS MTP-36	DAIRYLAND	
120		FT	20 FIBEROLS JECUSALE DUCAS JECUSALE	NON-STOCK	AC GROUNDING CABLE	WITP-50	PLATTLINE	
120	.045	FT	CAUTION TAPE, YELLOW, 6" WIDE	1552996	CAUTION TAPE		GENERIC	
			INSULATORS					
2	2	EA	INSULATOR, MONOLITHIC, WELD, 20" MPS, FORGED STL, ASTM A105, CLASS 600, ASME B16.11, PIPE PUP STYLE, API 5L PSL-2, GR X65, 0.375" W.T. PIPE PUPS WELDED ON EACH END.	1557522	MONOLITHIC INSULATOR		SYPRISTECHOL	
			BEVEL ENDS 30 - 35 DEG WITH 1/16" LANDING.					
2 DNTRACTO	2 TOR SHAL	EA	CULION IAPE, YELLOW, 6" WIDE INSULATOR, MONOLITHIC, WELD, 20" NPS, FORGED STL, ASTM A105, CLASS 600, ASME 816.11, PIPE PUP STYLE, API 5L PSL-2, GR X65, 0.375" W.T. PIPE PUPS WELDED ON EACH END. BEVELENDS 30 - 35 DEG WITH 1/16" LANDING. NSTALL ALL MISCELLANEOUS PARTS TO COMPLETE PROJECT PER CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, ELECTRICAL CODES, STATE AND LOCAL CODES AND STANDARDS, AND ENCLOSURES, TRANSIENT VOLTAGE SURGE SUPPRESSORS, AC MAIN BUSS TERMINATION, CIRCUIT BREAKERS, AND OTHER ELECTRICAL EQUIPMENT REQUIRED. ACTUAL LENGTH WIRING IS I	- 1557522 D LOCAL ELECTRICAL DI	MONOLITHIC INSULATOR	MITED TO, WIRING AND M	SYPRISTECHOL	
/18/202	20							REF. DWG(S) PNG-G-350-000
10								
		DATE	REVISION(S) DESCRIPTION BY CHK APPD DESCRIPTION APPROVALS SUED FOR CONSTRUCTION MCR FFO AMP/AREA CODE - DATE NETALIS REGIONAL		01	350 PROJEC	. ד	SHEET(S) 14 OF 14 DWG S
		11/18/2020 15:	SUED FOR CONSTRUCTION MCR FFO AMP AREA CODE - CONTRUCTION ACCOUNT NUMBER Q3680 REGIONAL ENGINEER					DWG DATE 06-10-2020 SUPERSEDE
				DUKE	Piedmont CATHODIC PROTECTION	N & AC MITIGATI	ON BILL OF MATERIALS	
		1	PROJECT NUMBER 1880115 DATE INTULS MGR TECH					
10	۱B		PROJECT NUMBER 1880/15 Date Netod More More More REC & STO DRAWING BY MCR - - REC & STO STATION ID C550 PAT PRINCIPAL PROJECTINI ID C550 PAT PRINCIPAL PROJECTINI ID C550 PAT PRINCIPAL	DUKE ENERGY.		ON COUNTY		PNG E-350-000

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in

Case No(s). 16-0253-GA-BTX

Summary: Exhibit CCP Drawings for Preconstruction Conference Set 2 part 4 electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and Kingery, Jeanne W and Vaysman, Larisa