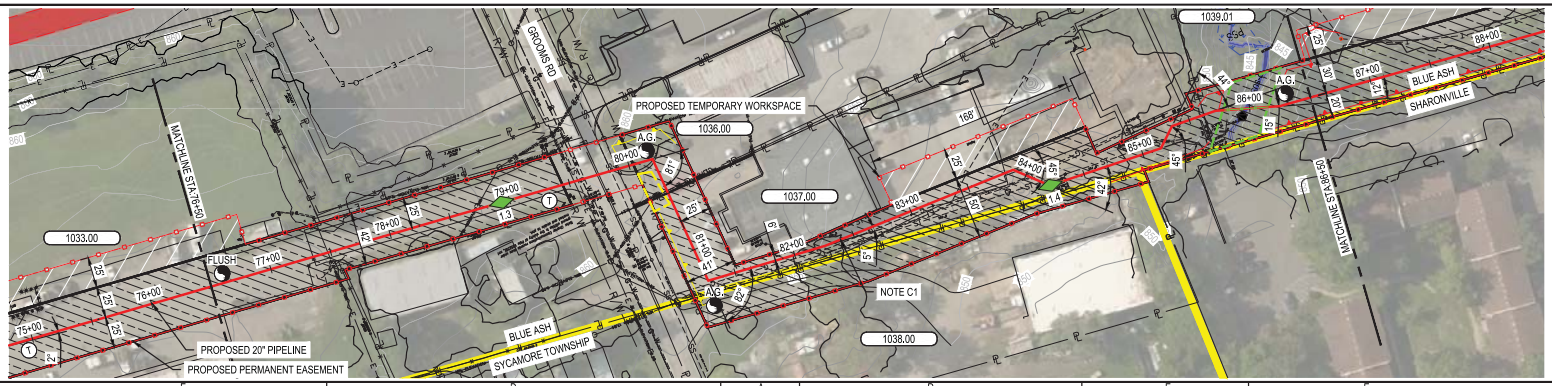
RIGHT-OF-WAY						
OWNERSHIP	1033.00	ROW	1036.00	1037.00	1039.01	
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	
ACREAGE	1.0252 ACRES		0.0513 ACRES	0.3611 ACRES	2.8433 ACRES	
EASEMENTS	50' EASEMENT		41' EASEMENT	VARIES	50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001303					

STATIONING

STA: 78+61.1° OVERBEND (V)
STA: 78+30.1° OVERBEND (V)
STA: 79+51.2° SAG BEND (V)
STA: 80+20 FTG 81° (H-RT) 11° OVERBEND (V)
STA: 81+27 FTG 62° (H-LT) 11° OVERBEND (V)
STA: 82+25 BEND 5° (H-LT) 11° OVERBEND (V)
STA: 83+27.1° SAG BEND (V)
STA: 83+69 FTG 45° (H-RT) 11° SAG BEND (V)
STA: 84+21 42° FTG (H-LT)
STA: 85+15 45° FTG (H-LT)
STA: 85+35 FTG 44° (H-RT) 13° OVERBEND (V)
STA: 85+72 BEND 15° (H-RT) 13° SAG BEND (V)
STA: 86+24 BEND 12° (H-LT) 13° SAG BEND (V)

PLAN

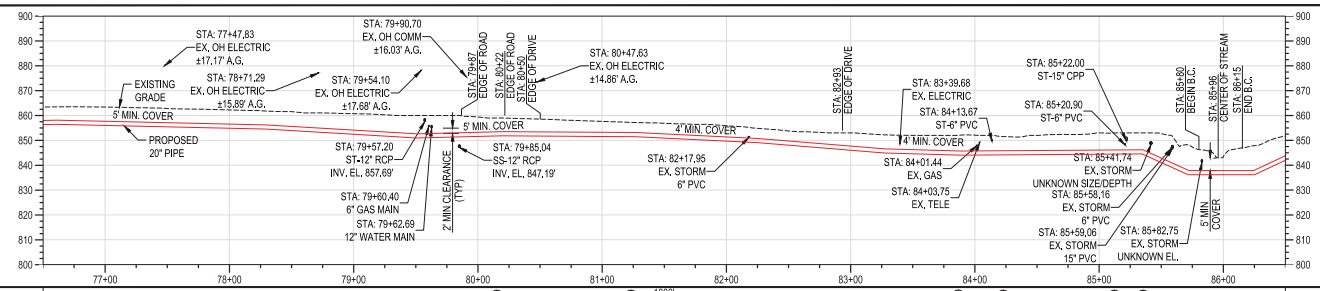


RESTORE						
TRENCH TYPE:	E	D	A	D	E	E
SURFACE TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	SEED - ROUGH	1	-	1	SEED - ROUGH	SEED - FINE

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	JOINT LENGTH	JOINT #	HEAT #

PROFILE



CONSTRUCTION NOTE:

C1. TRENCH EXCAVATION SHALL NOT EXCEED 7'. PROTECTIVE MEASURES SUCH AS SHIELDING AND SITE MONITORING MUST BE USED FROM STA. 84+00 TO 85+00 PER LETTER REGARDING GEOTECHNICAL SERVICES A/A REAL ESTATE SITE EVALUATION, BLUE ASH, OHIO, TERRACON PROJECT NUMBER N1175384 ADDRESSED TO MR. JAMES OLBERDING DATED JUNE 22, 2020.

C2. NO IN-WATER WORK FROM APRIL 15TH THROUGH JUNE 30TH ON PERENNIAL STREAMS.

MATERIAL	
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4889

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S)	8 OF 64	DWG SCALE	AS NOTED
DWG DATE	01/13/2020	SUPERSEDED	—

DRAWING NUMBER: PNG -C-350-0001186

REVISION: 0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	1039.01
JURISDICTION	BLUE ASH
ACREAGE	2.8433 ACRES
EASEMENTS	50' EASEMENT
REF. DWG. NO.	

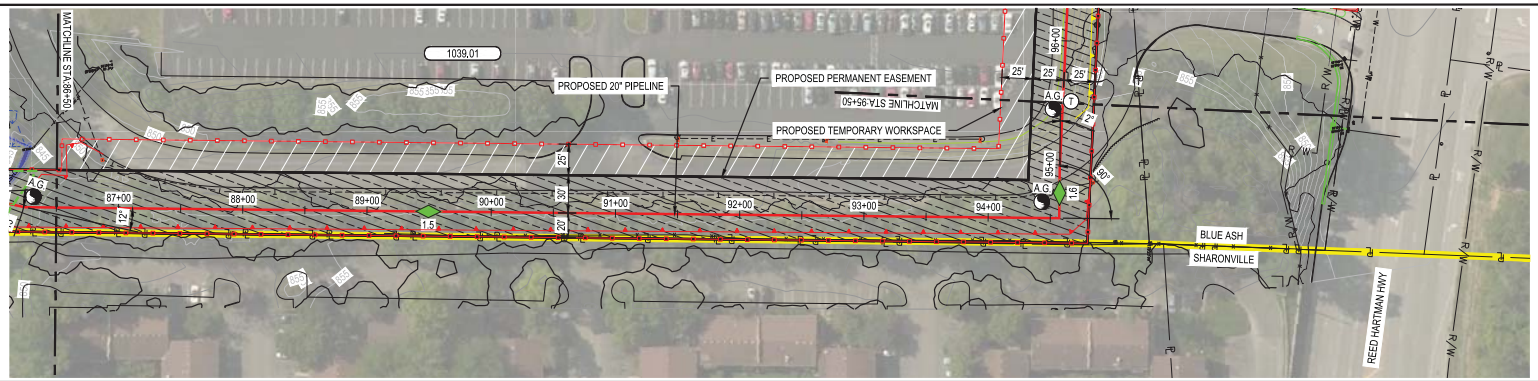
STATIONING

STA: 86+65.13° OVERBEND (V)

STA: 94+57 FTG
90° (H-L) 7.2° OVERBEND (V)

STA: 94+97.2° BEND (H-RT)

PLAN

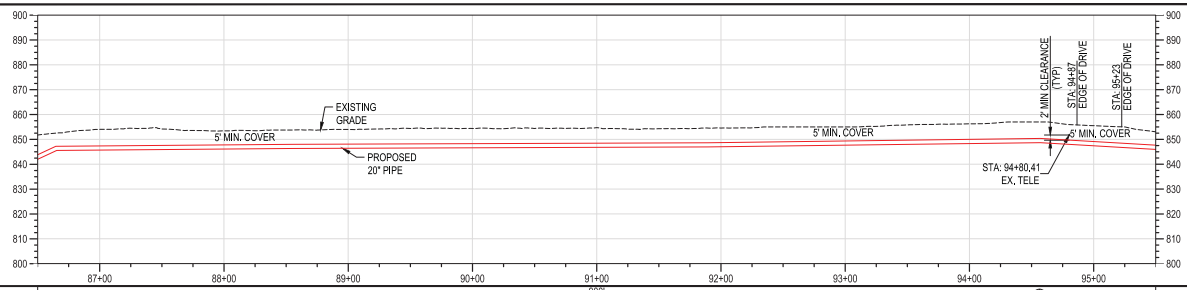


RESTORE			
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D / E
SURFACE TYPE:		SEED - FINE	1 / SEED - FINE

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	LENGTH (CON.)	JOINT	HEAT #

PROFILE



MATERIAL	900'	10
CONST. METHOD	1 OPEN TRENCH	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG	

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 9 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001187	REVISION 0

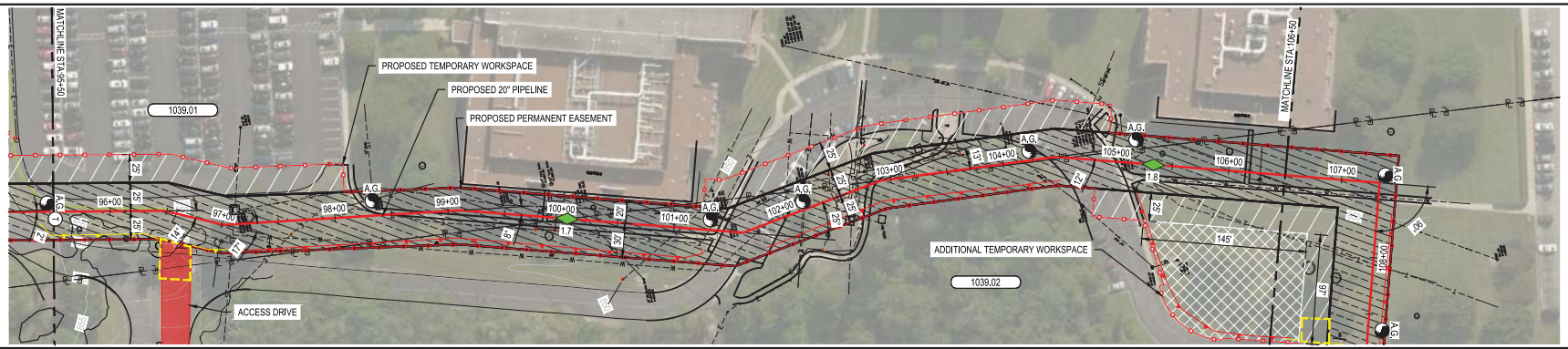
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY		
OWNERSHIP	1039.01 / 1039.02	
JURISDICTION	BLUE ASH	
ACREAGE	2.8433 ACRES	
EASEMENTS	50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001165	

STATIONING

STA: 96+48 BEND 14° (H-RT) 3° SAG BEND (V)
STA: 97+02 BEND 17° (H-LT) 3° OVERBEND (V)
STA: 97+57 2° SAG BEND (V)
STA: 99+11 8° BEND (H-RT)
STA: 100+05 2° SAG BEND (V)
STA: 100+35 6° OVERBEND (V)
STA: 101+61 FTG 22° (H-LT) 5° SAG BEND (V)
STA: 102+91 BEND 13° (H-RT) 3° OVERBEND (V)
STA: 103+88 1° SAG BEND (V)
STA: 104+48 12° BEND (H-RT)
STA: 105+12 5° SAG BEND (V)
STA: 105+61 5° OVERBEND (V)

PLAN

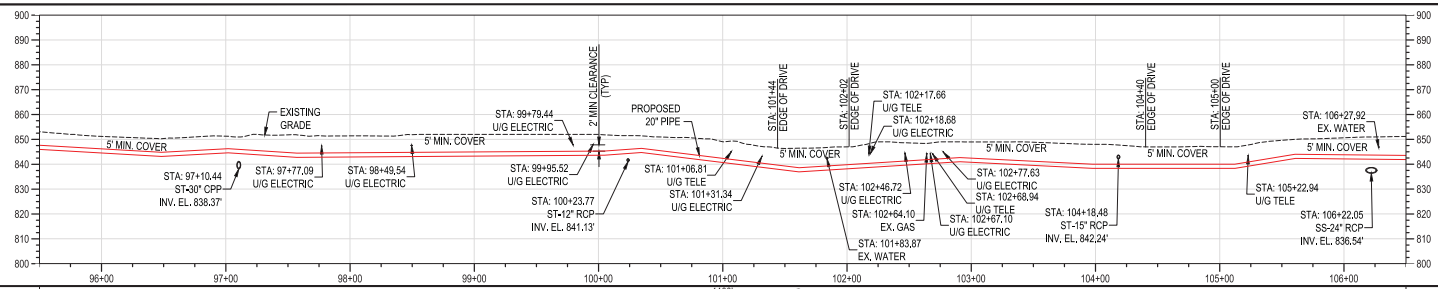


RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	E	D	E	
SURFACE TYPE:		SEED - FINE	1	SEED - FINE	1	SEED - FINE	

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	LENGTH	JOINT	WELD #	(CON.)	STA.

PROFILE



MATERIAL	1100' (1) (11)
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO — AMANDA PALM — E-84075 — REGISTERED PROFESSIONAL ENGINEER — 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS	DATE	INITIALS
AREA CODE	-	REGIONAL ENGINEER	-	-
ACCOUNT NUMBER	Q3680	MGR TECH REC & STD	-	-
PROJECT NUMBER	1880115	PRINCIPAL ENGINEER	11/18/2020	AMP
DRAWING BY	AKT			
STATION ID	C350			
CHECKER INITIALS	CNS			

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 10 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001188	REVISION 0

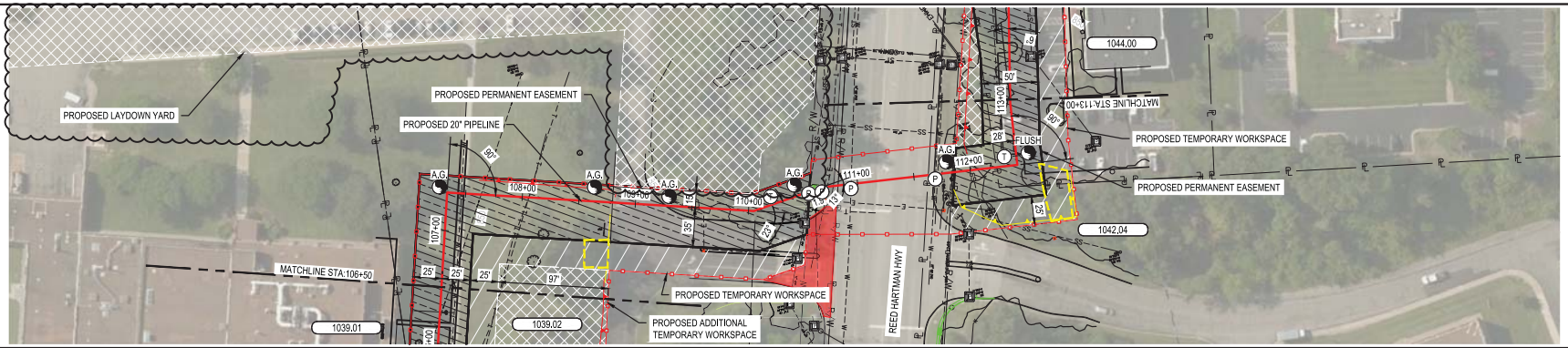
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP	1039.01 / 1039.02	ROW	1042.04	1044.00
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH
ACREAGE	2.8433 ACRES		0.0600 ACRES	0.4815 ACRES
EASEMENTS	50' EASEMENT		50' EASEMENT	50' EASEMENT
REF. DWG. NO.	PNG-C-350-0001177	PNG-C-350-0001165		

STATIONING

STA: 107+34.90° FTG (H-RT) | STA: 110+05.23° BEND (H-LT) | STA: 110+68.13° BEND (H-RT) | STA: 111+05.3° OVERBEND (V) | STA: 111+44.3° SAG BEND (V) | STA: 111+65.4° SAG BEND (V) | STA: 112+42 FTG 90° (H-LT) 4° OVERBEND (V) | STA: 112+97.6° BEND (H-RT)

PLAN

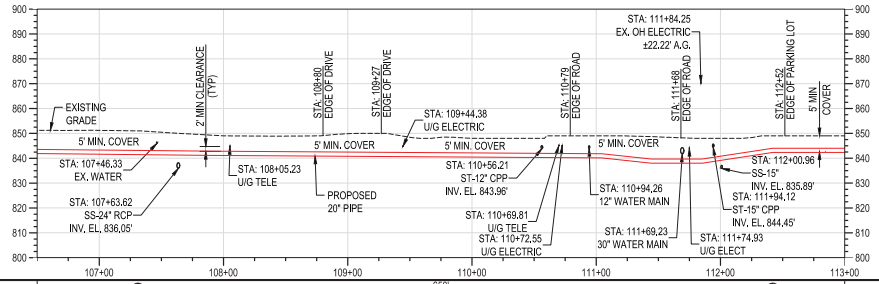


RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	E	A	E	D
SURFACE TYPE:		SEED - FINE	1	SEED - FINE	-	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	LENGTH	JOINT	HEAT #

PROFILE



MATERIAL	10	650' 1	10
CONST. METHOD	OPEN TRENCH		
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG		

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 0765

STATE OF OHIO — AMANDA PALM E-84075 — REGISTERED PROFESSIONAL ENGINEER — 12/03/2020

PROFESSIONAL ENGIARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP
1	12/03/2020	ADDED LAYDOWN YARD AND REFERENCE DRAWING	AKT	JMP	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 12/03/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 11 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001189	REVISION 1

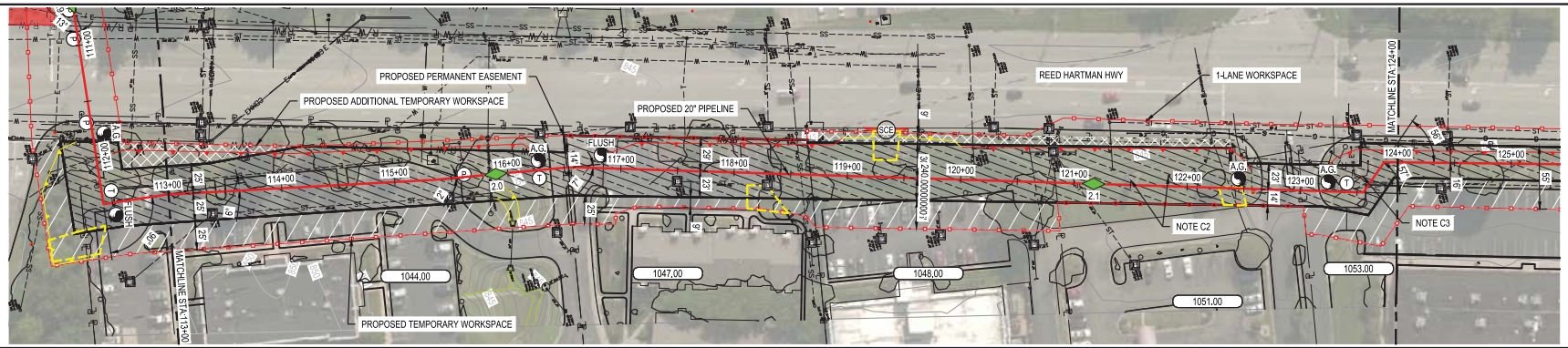
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP	1044.00	1047.00	1048.00	1051.00	1053.00
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH
ACREAGE	0.4815 ACRES	0.2576 ACRES	0.2477 ACRES	0.2313 ACRES	0.5295 ACRES
EASEMENTS	VARIES	52' EASEMENT	50' EASEMENT	VARIES	VARIES
REF. DWG. NO.	PNG-C-350-0001283 PNG-C-350-0001165				

STATIONING

STA: 114+47.6' OVERBEND (V)
STA: 115+34 BEND 2' (H-LT) 6' SAG BEND (V)
STA: 116+04.5' SAG BEND (V)
STA: 116+55 BEND 7' (H-RT) 6' OVERBEND (V)
STA: 118+64.6' SAG BEND (V)
STA: 119+10.7' OVERBEND (V)
STA: 119+91.5' OVERBEND (V)
STA: 120+56.7' SAG BEND (V)
STA: 121+21.8' SAG BEND (V)
STA: 121+74.8' OVERBEND (V)
STA: 122+22.4' OVERBEND (V)
STA: 123+11.3' SAG BEND (V)
STA: 123+55 FTG 57" (H-LT) 6' SAG BEND (V)
STA: 123+88 FTG 56" (H-RT) 5' OVERBEND (V)

PLAN



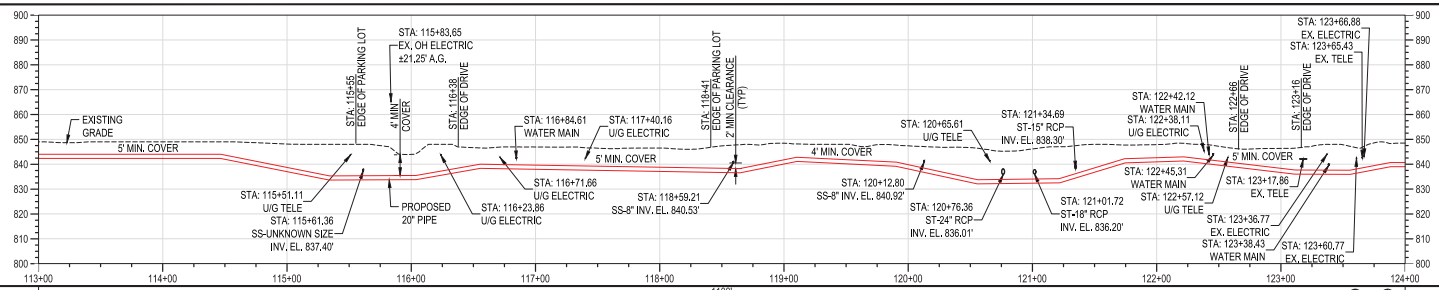
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	D	E	D	E	D	E	D
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	1	SEED - FINE	1	SEED - FINE	1	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	LENGTH	JOINT #	HEAT #

PROFILE



CONSTRUCTION NOTE:

C1. PARKING LOT TO BE PLATED AT THE CONCLUSION OF WORK TO ALLOW FOR USE DURING THE DAY.

C2. EXISTING MONUMENTS CAN BE REMOVED DURING CONSTRUCTION.

C3. CONTRACTOR SHALL NOT DISTURB EXISTING MONUMENT.

MATERIAL	1100'
CONST. METHOD	1 OPEN TRENCH 10 10
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4652

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 12 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001190	REVISION 0

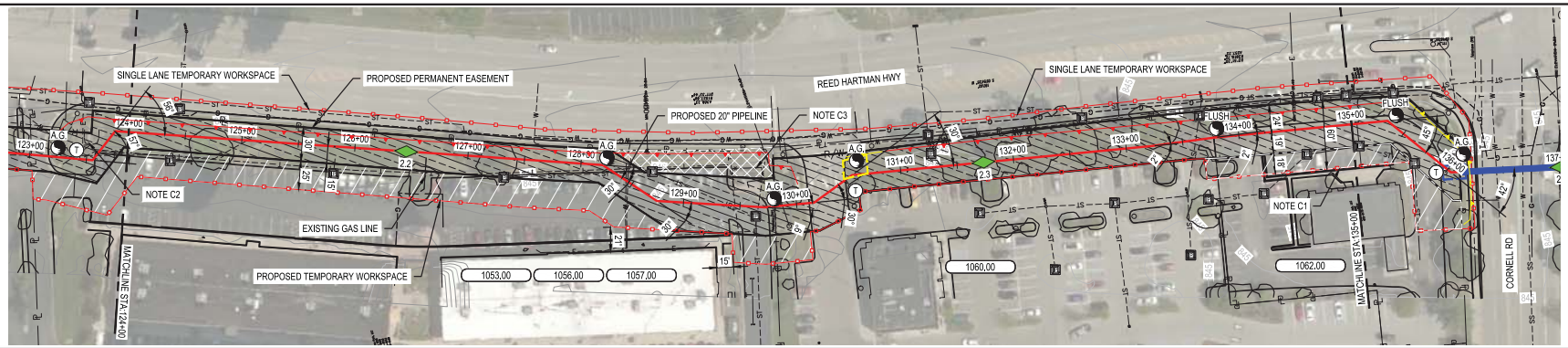
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1053.00 / 1056.00 / 1057.00	1060.00	1062.00	
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	
ACREAGE	0.5295 ACRES	0.6161 ACRES		
EASEMENTS	50' EASEMENT	VARIES		
REF. DWG. NO.				

STATIONING

STA: 125+68.1° OVERBEND (V)
STA: 126+68.1° SAG BEND (V)
STA: 128+19.30° FTG (H-RT)
STA: 129+77.30° FTG (H-LT)
STA: 129+72 BEND 9° (H-LT) 11° SAG BEND (V)
STA: 130+16.30° FTG (H-LT)
STA: 130+57.30° FTG (H-RT)
STA: 132+80.9° OVERBEND (V)
STA: 133+22 BEND 2° (H-LT) 18° SAG BEND (V)
STA: 133+78.2° BEND (H-RT)

PLAN



RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	E	D	E	D
SURFACE TYPE:		SEED - FINE	1	SEED - FINE	1	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	LENGTH	JOINT	JOINT #

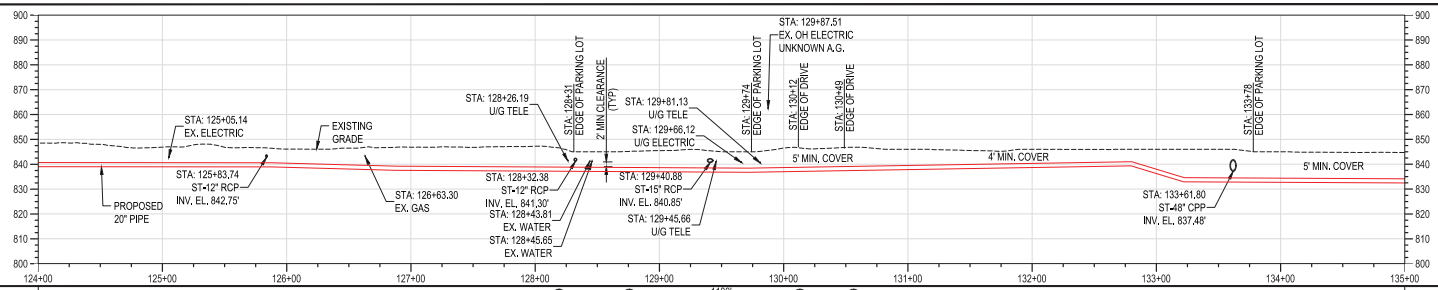
CONSTRUCTION NOTE:

C1. WATER FILLED JERSEY BARRIER TO BE PLACED AT CONSTRUCTION PERIMETER ALONG SIDEWALK.

C2. CONTRACTOR SHALL NOT DISTURB EXISTING MONUMENT.

C3. DUMPSTER PAD AND FENCING TO BE UNDISTURBED DURING CONSTRUCTION PROCESS.

PROFILE



MATERIAL	
CONST. METHOD	1100' OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4652

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 13 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001191	REVISION 0

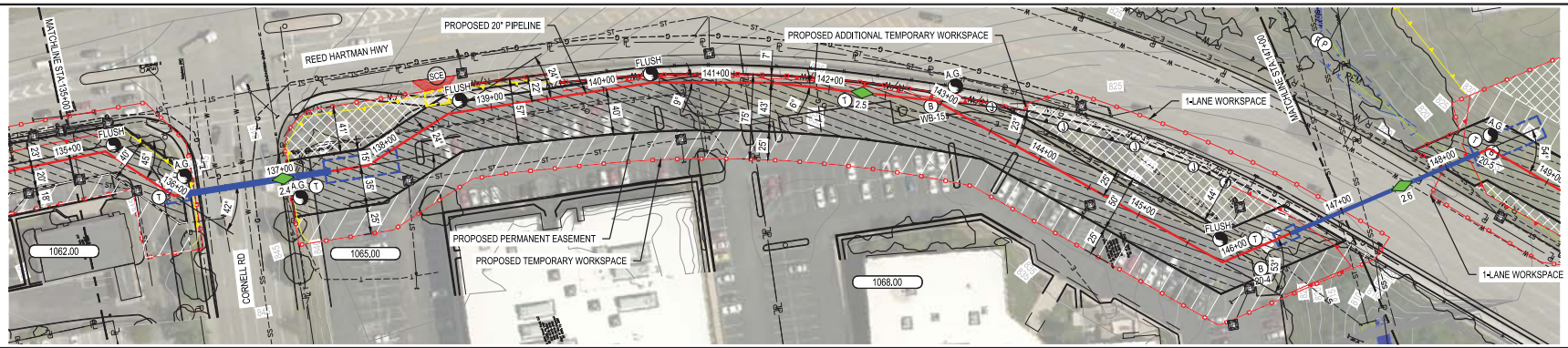
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY							
OWNERSHIP	1062.00	ROW	1065.00	1068.00			ROW
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH			BLUE ASH
ACREAGE	0.6161 ACRES		1.1196 ACRES				
EASEMENTS	VARIES		VARIES				
REF. DWG. NO.		PNG-C-350-0001251	PNG-C-350-0001283	PNG-C-350-0001166	PNG-B-350-0001014	PNG-B-350-0001010	PNG-C-350-0001252

STATIONING

STA: 135+32.45' FTG (H-RT)
STA: 136+04.42' FTG (H-LT)
STA: 137+78 BEND 24" (H-RT) 11° OVERBEND (V)
STA: 138+61.24' BEND (H-RT)
STA: 140+44.9' BEND (H-RT)
STA: 141+49.6' BEND (H-RT)
STA: 142+95.23' BEND (H-RT)
STA: 145+65 FTG 53" (H-LT) 13° OVERBEND (V)
STA: 146+36.14' SAG BEND (V)

PLAN



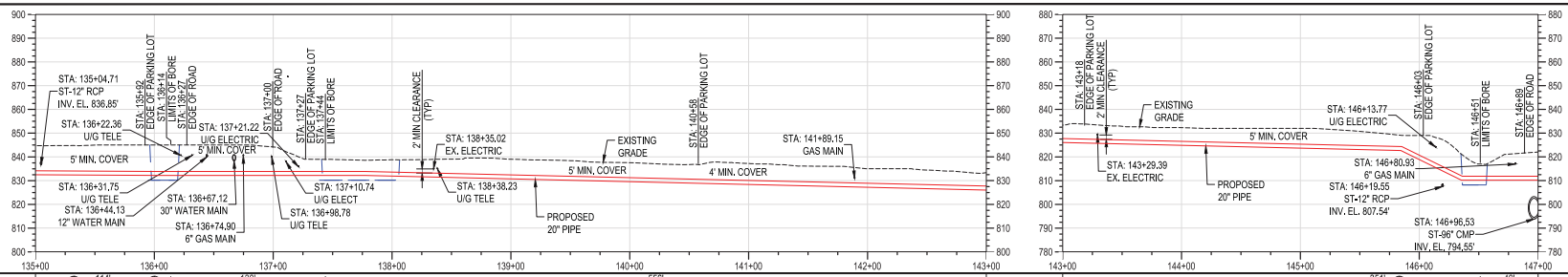
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	D	N/A	D	E	D	E	N/A
SURFACE TYPE:		1	N/A	1	SEED - FINE	1	SEED - FINE	N/A

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	JOINT LENGTH	JOINT #	HEAT #

PROFILE



MATERIAL						
CONST. METHOD	OPEN TRENCH (11) 114'	BORE (11) 130'	OPEN TRENCH (1) 556'		OPEN TRENCH (1) 351'	BORE (10) 49'
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG					

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680	DATE -	INITIALS -	MGR TECH REC & STD
PROJECT NUMBER	1880115	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
DRAWING BY	AKT			
STATION ID	C350			
CHECKER INITIALS	CNS			

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 14 OF 64	DWG SCALE AS NOTED	
DWG DATE 01/13/2020	SUPERSEDED —	
DRAWING NUMBER PNG -C-350-0001192		REVISION 0

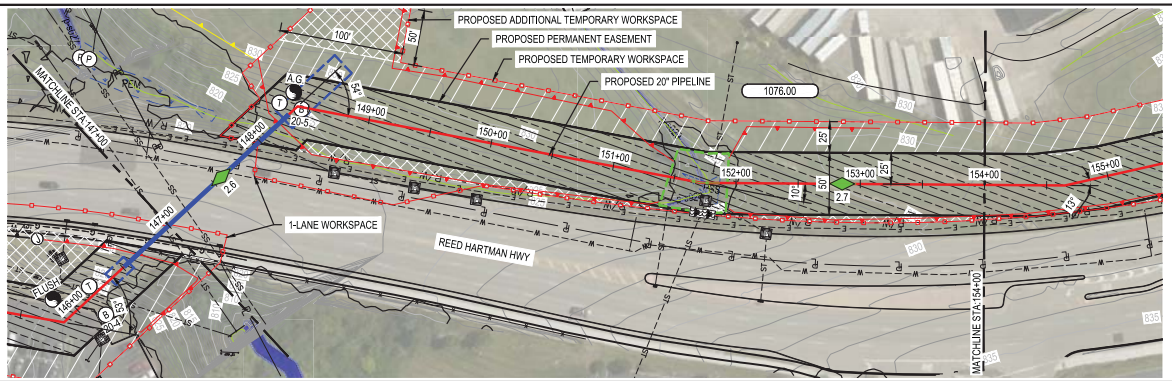
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP	ROW	1076.00	
JURISDICTION	BLUE ASH	BLUE ASH	
ACREAGE		1.2373 ACRES	
EASEMENTS		50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001252	PNG-B-350-0001010	PNG-C-350-0001303

STATIONING

STA: 148+41 FTG 54" (H-R)T(9 SAG BEND (V)
STA: 149+09.9° OVERBEND (V)
STA: 150+97.6° OVERBEND (V)
STA: 151+72 BEND 10" (H-L)T) 6° SAG BEND (V)
STA: 152+12.7° SAG BEND (V)
STA: 152+85.7° OVERBEND (V)

PLAN

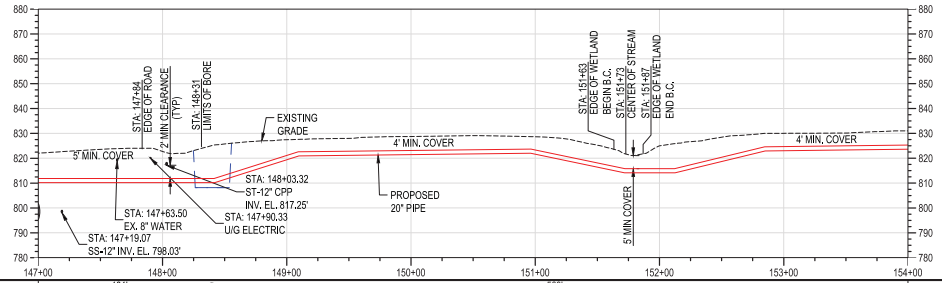


RESTORE			
TRENCH TYPE:	SEE DWG PNG-C-350-0001293	N/A	E
SURFACE TYPE:	THROUGH PNG-C-350-0001295	N/A	SEED - FINE
	FOR RESTORATION TYPE DETAIL		

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	LENGTH	JOINT	WEW #	(CON.)

PROFILE



MATERIAL	131' (2) BORE	569' (1) OPEN TRENCH
CONST. METHOD		
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG	

REF. DWG(S) SEE REFERENCE BAND

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 15 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001193	REVISION 0

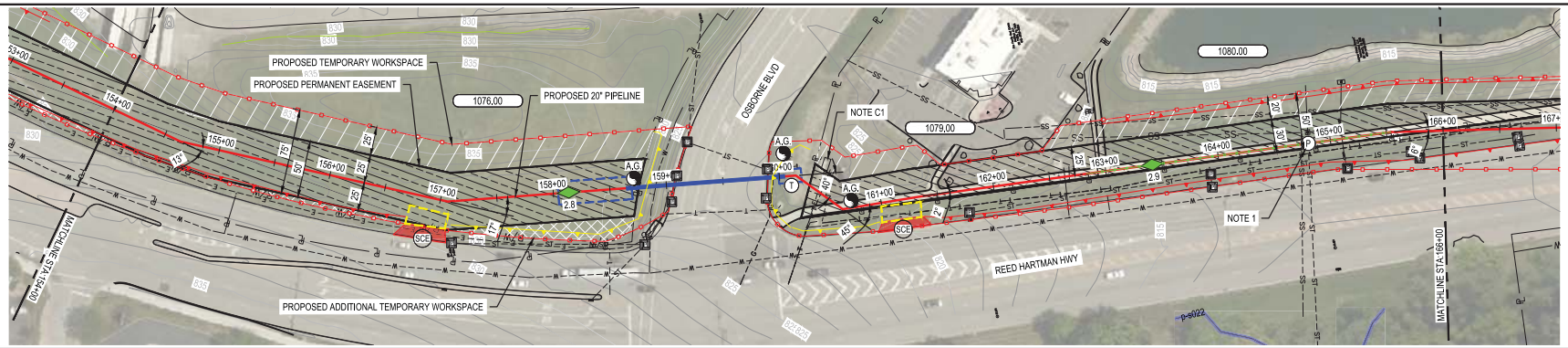
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY						
OWNERSHIP	1076.00	ROW	1079.00	1080.00	ROW	
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	
ACREAGE	1.2373 ACRES		0.1803 ACRES	0.2670 ACRES		
EASEMENTS	50' EASEMENT		VARIES	VARIES		
REF. DWG. NO.		PNG-C-350-0001253	PNG-C-350-0001283 PNG-C-350-0001166	PNG-C-350-0001293 PNG-C-350-0001303		

STATIONING

STA: 154+65 13° BEND (H-LT)
STA: 157+06 17° BEND (H-LT)
STA: 157+97 14° OVERBEND (V)
STA: 158+45 13° SAG BEND (V)
STA: 160+15 FTG 40° (H-RT) 1° SAG BEND (V)
STA: 160+65 FTG 45° (H-LT) 2° OVERBEND (V)
STA: 161+34 BEND 2° (H-RT) 2° OVERBEND (V)
STA: 162+45 2° SAG BEND (V)
STA: 164+42 FTG 22° OVERBEND (V)
STA: 164+69 FTG 23° SAG BEND (V)
STA: 164+90 FTG 23° SAG BEND (V)
STA: 165+17 FTG 24° OVERBEND (V)
STA: 165+54 6° BEND (H-RT)

PLAN



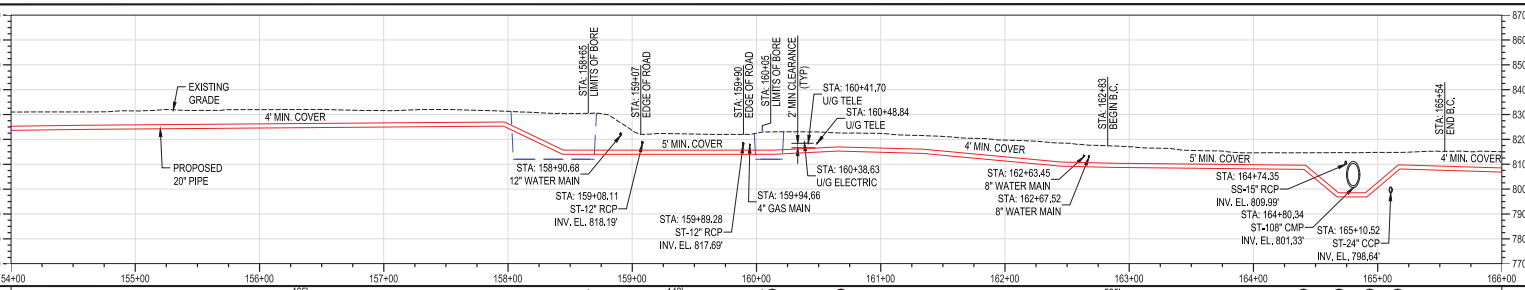
RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	N/A	E	E	F	E
SURFACE TYPE:		SEED - FINE	N/A	SEED - FINE	SEED - FINE, SIDEWALK TO MATCH EXISTING	SEED - FINE	SEED - FINE

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	LENGTH	JOINT	JOINT #	HEAT #

CONSTRUCTION NOTE:
C1. CONTRACTOR SHALL NOT DISTURB EXISTING MONUMENT.

PROFILE



NOTE:
1. USE FLOWABLE FILL AROUND PIPE BENEATH 108" PIPE TO PREVENT FLOW OF WATER ALONG PIPELINE, SEE BACKFILL DETAIL TYPICAL UTILITY TRENCH F ON DWG PNG-C-350-0001293.

MATERIAL													
CONST. METHOD	465' (1) OPEN TRENCH				140' (2) BORE		(11)	(11)	595' (1) OPEN TRENCH		(11)	(11)	(11) (11)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG												

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA # 4652

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 16 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001194	REVISION 0

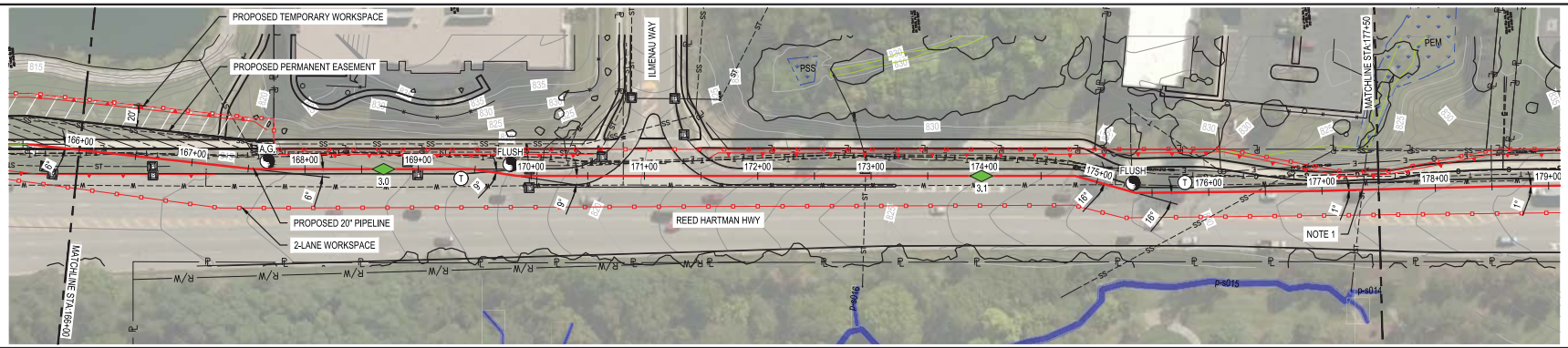
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	BLUE ASH
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001293

STATIONING

STA: 166+55 1° SAG BEND (V)
STA: 167+55 6° BEND (H-LT)
STA: 169+04 2° SAG BEND (V)
STA: 169+48 9° BEND (H-RT)
STA: 169+88 BEND 9° (H-LT) 1° OVERBEND (V)
STA: 171+10 1° SAG BEND (V)
STA: 172+07 1° OVERBEND (V)
STA: 173+27 1° OVERBEND (V)
STA: 174+80 BEND 16° (H-RT) 1° SAG BEND (V)
STA: 175+36 16° BEND (H-LT)
STA: 176+27 7° OVERBEND (V)
STA: 176+91 BEND 1° (H-LT) 6° SAG BEND (V)
STA: 177+45 16° SAG BEND (V)

PLAN

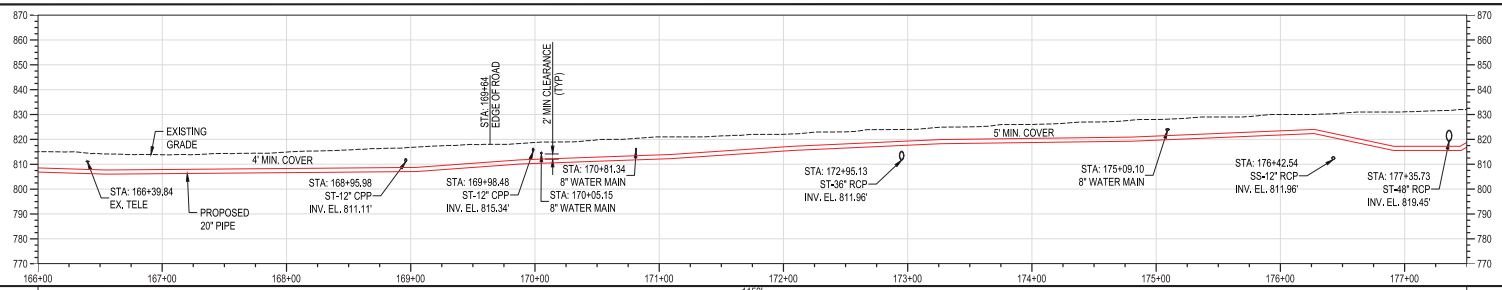


RESTORE				
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	A	F
SURFACE TYPE:		SEED - FINE	-	A

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	LENGTH (CON)	JOINT	HEAT #

PROFILE



NOTE:
1. USE FLOWABLE FILL AROUND PIPE BENEATH 48" PIPE TO PREVENT FLOW OF WATER ALONG PIPELINE. SEE BACKFILL DETAIL TYPICAL UTILITY TRENCH F ON DWG PNG-C-004-0001293.

MATERIAL	
CONST. METHOD	1150' OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 17 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001195	REVISION 0

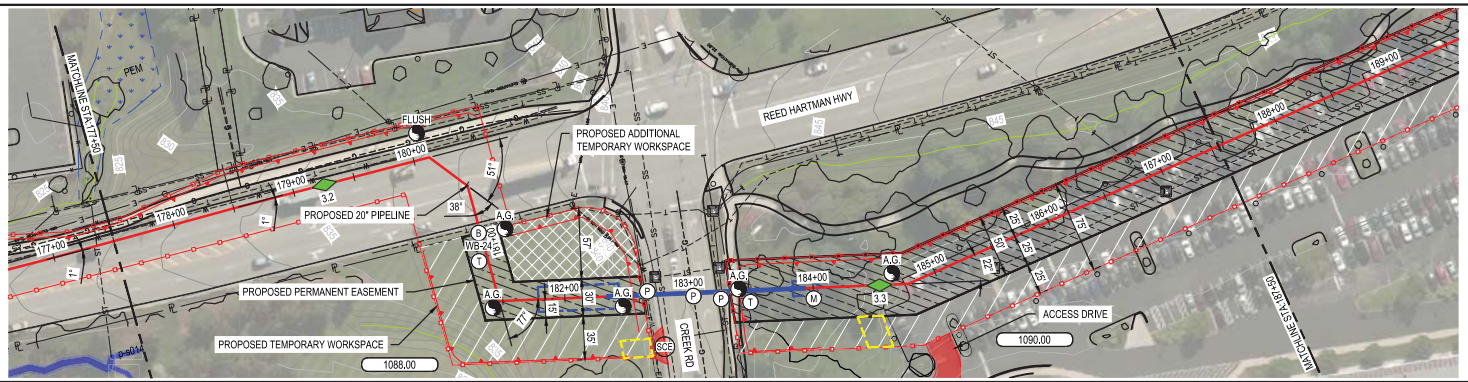
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP	ROW	1088.00	ROW	1090.00	
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	
ACREAGE		0.1191 ACRES		0.7893 ACRES	
EASEMENTS		30' EASEMENT		50' EASEMENT	
REF. DWG. NO.		PNG-B-350-0001015	PNG-C-350-0001254	PNG-C-350-0001283	PNG-C-350-0001166

STATIONING

STA: 177+60.15° OVERBEND (V)
STA: 178+51.1° BEND (H-RT)
STA: 180+13.51° FTG (H-RT)
STA: 180+51.38° FTG (H-RT)
STA: 181+47 FTG 77° (H-L) 7.2° SAG BEND (V)
STA: 182+04.3° OVERBEND (V)
STA: 184+10.7° SAG BEND (V)
STA: 184+77 BEND 22° (H-L) 7° OVERBEND (V)
STA: 185+69.2° OVERBEND (V)
STA: 186+77.3° SAG BEND (V)
STA: 187+39.3° SAG BEND (V)

PLAN

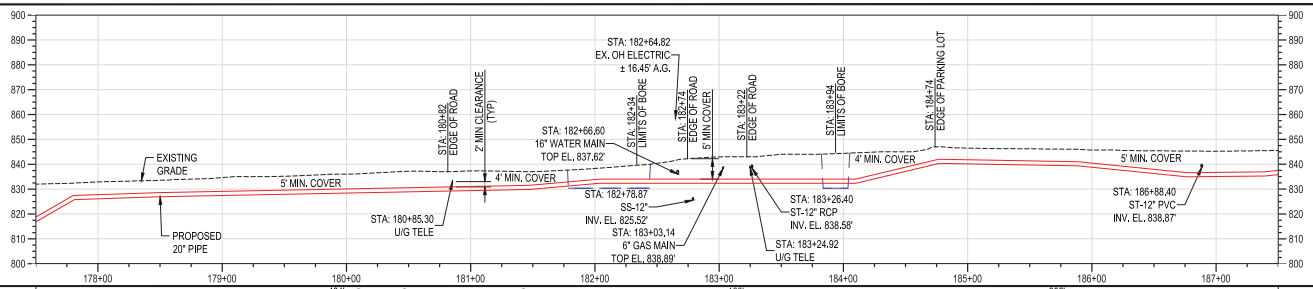


RESTORE						
TRENCH TYPE:	SEE DWG PNG-C-350-0001293	F	A	E	N/A	E	D
SURFACE TYPE:	THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	A	-	SEED - FINE	N/A	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	LENGTH	JOINT	WELD #	(CON)	STA.

PROFILE



MATERIAL				
CONST. METHOD	484' (1) (10) (11) (10) OPEN TRENCH	160' (2) BORE	356' (1) OPEN TRENCH	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG			

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 18 OF 64 | DWG SCALE AS NOTED
DWG DATE 01/13/2020 | SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001196 | REVISION 0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	1090.00	1092.00	1093.00	ROW	1094.00
OWNERSHIP					
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH
ACREAGE	0.7893 ACRES	0.4541 ACRES	0.4598 ACRES		0.4544 ACRES
EASEMENTS	50' EASEMENT	50' EASEMENT	50' EASEMENT		30' EASEMENT
REF. DWG. NO.					

STATIONING

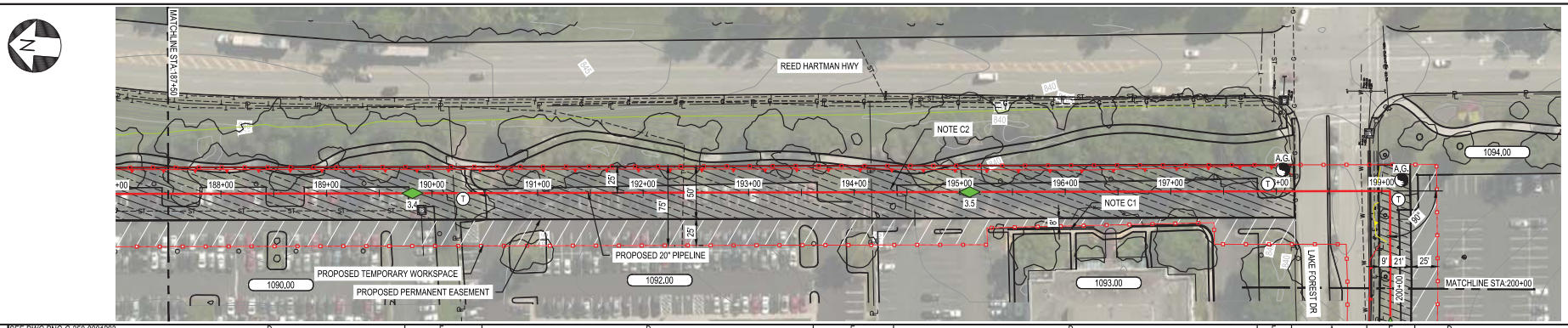
STA: 188+12.3° OVERBEND (V)

STA: 190+77.1° OVERBEND (V)

STA: 195+22.1° SAG BEND (V)

STA: 199+08.90° FTG (H-RT)

PLAN



RESTORE								
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	D	E	D	E	D	E	A	E	D
SURFACE TYPE:		1	SEED - FINE	1	SEED - FINE	1	SEED - FINE	-	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

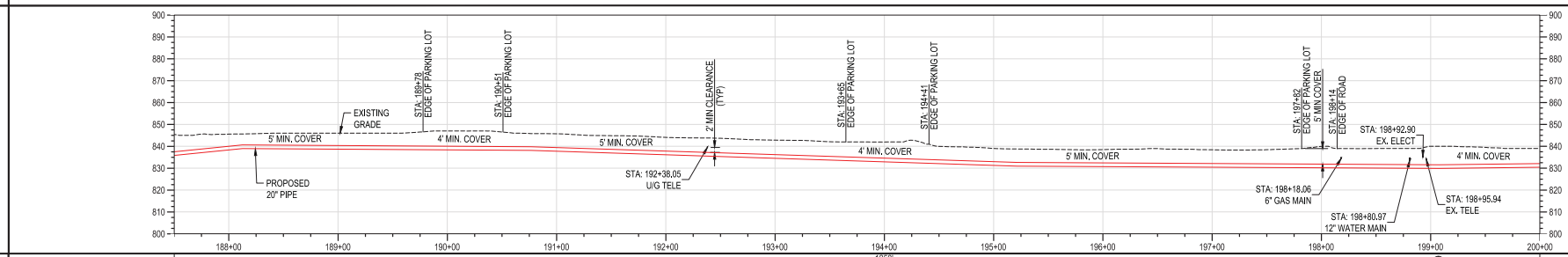
STA.	WELD #	JOINT LENGTH (CON)	JOINT #	NEW #

CONSTRUCTION NOTE:

C1. WATER FILLED JERSEY BARRIER TO BE PLACED AT CONSTRUCTION PERIMETER ALONG SIDEWALK.

C2. DUMPSTER PAD AND FENCING TO BE UNDISTURBED DURING CONSTRUCTION PROCESS.

PROFILE



MATERIAL		
CONST. METHOD	1250' 1 OPEN TRENCH	10
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG	

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE	INITIALS	
ACCOUNT NUMBER	Q3680	-	-	REGIONAL ENGINEER
PROJECT NUMBER	1880115	DATE	INITIALS	
DRAWING BY	AKT	-	-	MGR TECH REC & STD
STATION ID	C350	DATE	INITIALS	
CHECKER INITIALS	CNS	11/18/2020	AMP	PRINCIPAL ENGINEER

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 19 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001197	0

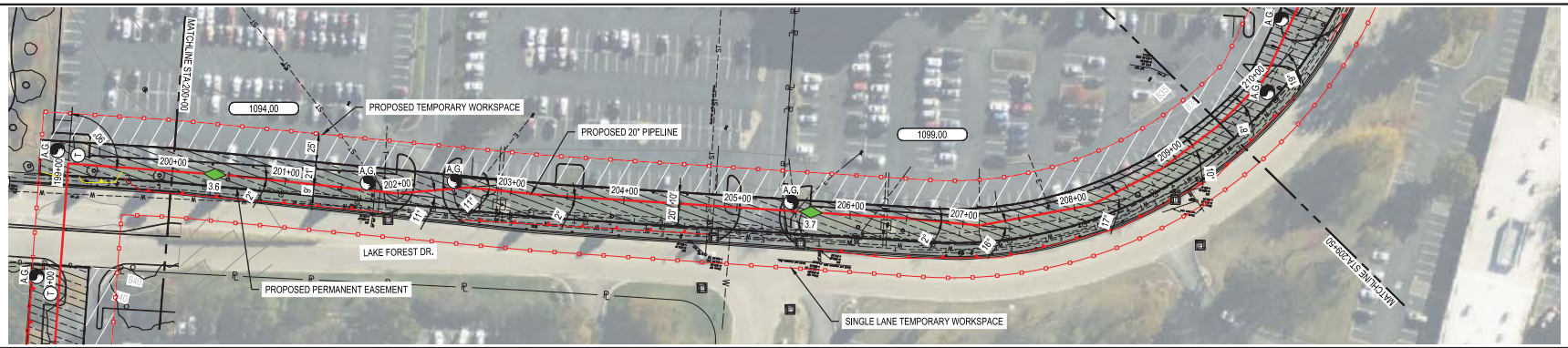
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP	1094.00	1099.00	
JURISDICTION	BLUE ASH	BLUE ASH	
ACREAGE	0.4544 ACRES	1.1006 ACRES	
EASEMENTS	30' EASEMENT	VARIES	
REF. DWG. NO.			

STATIONING

STA: 200+54 BEND 2° (H-RT) 2° OVERBEND (V)
STA: 202+00 BEND 11° (H-LT) 3° SAG BEND (V)
STA: 202+63 11° BEND (H-RT)
STA: 203+25 BEND 2° (H-LT) 3° OVERBEND (V)
STA: 204+90 4° SAG BEND (V)
STA: 206+14 2° OVERBEND (V)
STA: 206+50 2° BEND (H-RT)
STA: 207+14 16° BEND (H-LT)
STA: 208+16 BEND 17° (H-LT) 1° OVERBEND (V)
STA: 208+85 10° BEND (H-LT)
STA: 209+47 8° BEND (H-LT)

PLAN

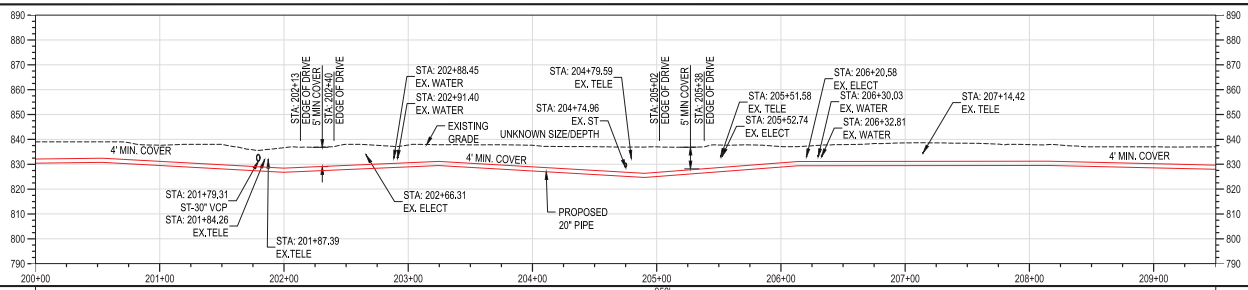


RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	D	E	D	E	D	E
SURFACE TYPE:		1	SEED - FINE	1	SEED - FINE	1	SEED - FINE

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	LENGTH	JOINT	(CON)	STA.	WELD #

PROFILE



MATERIAL	
CONST. METHOD	950' OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4674

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 20 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001198	REVISION 0

C/HAMILTON COUNTY/C350

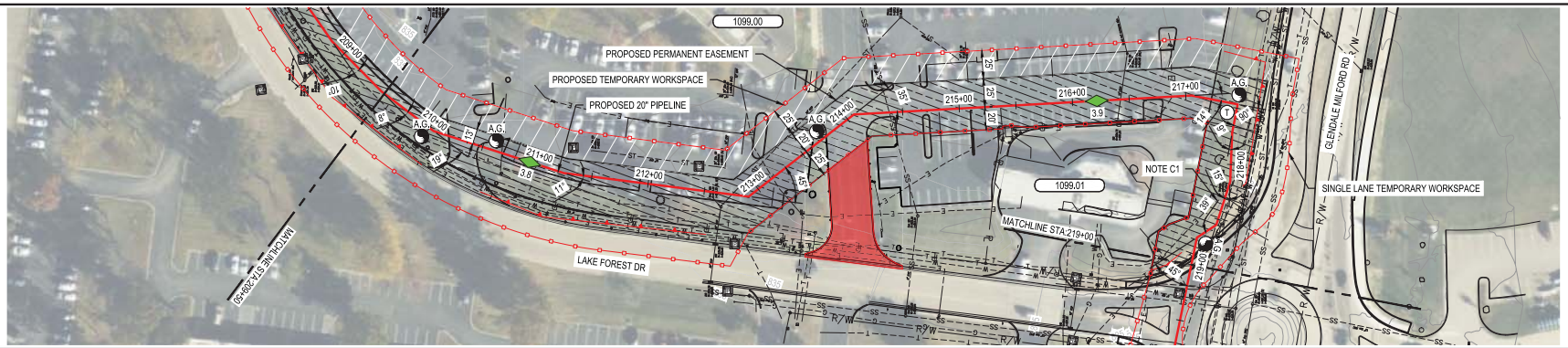
RIGHT-OF-WAY			
OWNERSHIP		1099.00	1099.01
JURISDICTION		BLUE ASH	BLUE ASH
ACREAGE		1.1006 ACRES	0.1300 ACRES
EASEMENTS		VARIES	VARIES
REF. DWG. NO.		PNG-C-350-0001283 PNG-C-350-0001166	

STATIONING

STA: 210+06 19° BEND (H-LT)
STA: 211+25 11° BEND (H-LT)
STA: 212+68 FTG 45° (H-LT) 3° SAG BEND (V)
STA: 214+07 FTG 35° (H-RT) 2° OVERBEND (V)
STA: 217+45 BEND 14° (H-RT) 6° SAG BEND (V)
STA: 217+46 FTG 90° (H-RT) 6° OVERBEND (V)
STA: 217+72 9° BEND (H-LT)
STA: 218+15 15° BEND (H-RT)
STA: 218+55 39° FTG (H-RT)
STA: 218+76 FTG 45° (H-LT) 5° OVERBEND (V)

PLAN

HORIZONTAL SCALE: 1" = 50'



RESTORE			
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	E
SURFACE TYPE:		SEED - FINE	1	SEED - FINE

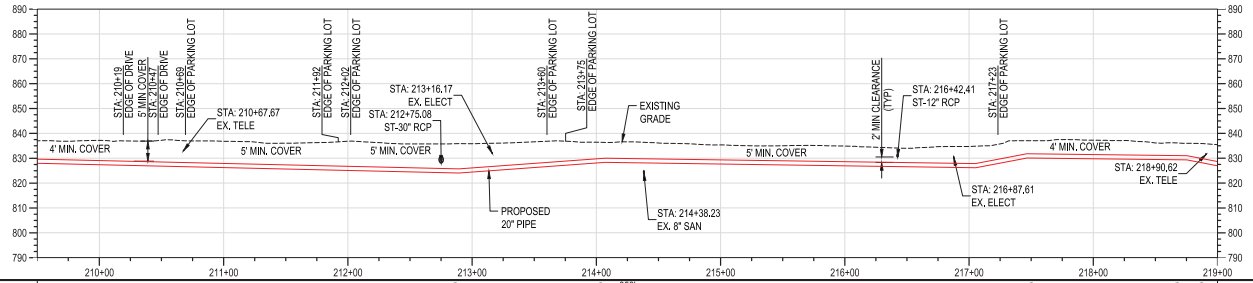
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	LENGTH (CON.)	JOINT #	HEAT #
STA.	WELD #	LENGTH (CON.)	JOINT #	HEAT #

CONSTRUCTION NOTE:
C1. CONTRACTOR SHALL NOT DISTURB EXISTING MONUMENT.

PROFILE

VERTICAL SCALE: 1" = 25'
HORIZONTAL SCALE: 1" = 50'



MATERIAL	
CONST. METHOD	11 11 950' 1 10 11 11 — OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA # 4652

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED
PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 21 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001199	0

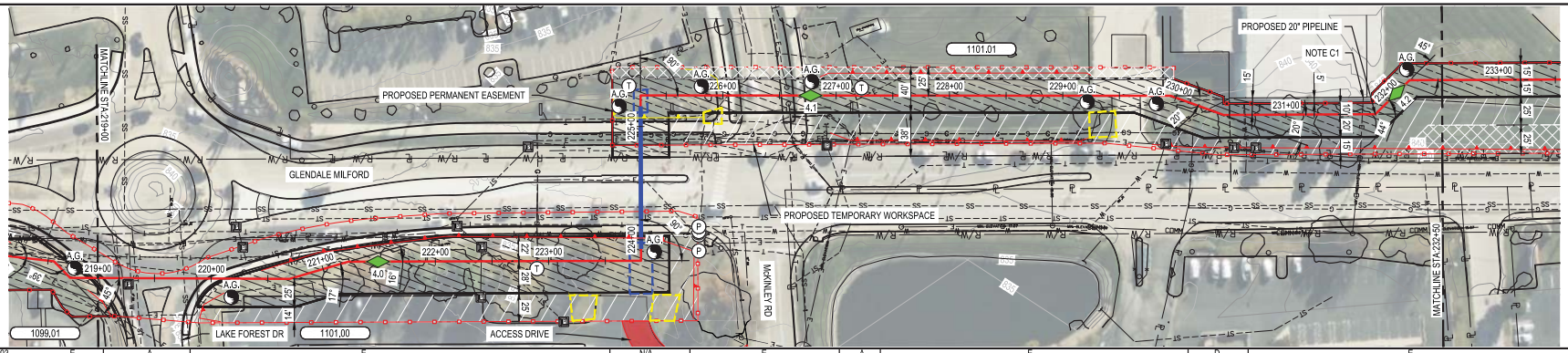
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY						
OWNERSHIP	1099.01	ROW	1101.00	ROW	1101.01	
JURISDICTION	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	BLUE ASH	
ACREAGE	0.1300 ACRES		0.4142 ACRES		2.0182 ACRES	
EASEMENTS	VARIES		VARIES		VARIES	
REF. DWG. NO.	PNG-C-350-0001255				PNG-C-350-0001283 PNG-C-350-0001166	

STATIONING

STA: 219+22.5° SAG BEND (V)
STA: 219+62.6° SAG BEND (V)
STA: 220+01.6° OVERBEND (V)
STA: 220+69.17° BEND (H-LT)
STA: 221+23 BEND 16° (H-RT) 1° OVERBEND (V)
STA: 223+04.2° SAG BEND (V)
STA: 223+81 FTG 90° (H-LT) 1° OVERBEND (V)
STA: 225+27 FTG 90° (H-RT) 4° SAG BEND (V)
STA: 225+70.5° OVERBEND (V)
STA: 226+25.4° SAG BEND (V)
STA: 227+09.4° OVERBEND (V)
STA: 229+18.2° SAG BEND (V)
STA: 229+95 BEND 20° (H-RT) 3° SAG BEND (V)
STA: 230+45 BEND 20° (H-LT) 1° 2° OVERBEND (V)
STA: 231+79.44° FTG (H-LT)
STA: 232+21.45° FTG (H-RT)

PLAN



RESTORE										
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	A	E	N/A	E	A	E	D	E
SURFACE TYPE:		SEED - FINE	-	SEED - FINE	N/A	SEED - FINE	-	SEED - FINE	1	SEED - FINE

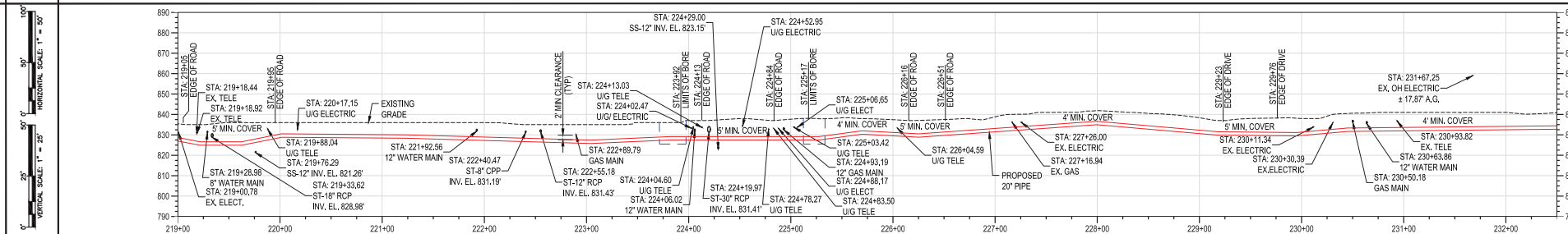
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	JOINT LENGTH	JOINT #	WELD #	(CON)	STA.

CONSTRUCTION NOTE:

C1. CONTRACTOR SHALL NOT DISTURB BUILDING FOUNDATION WITH EXCAVATIONS OR OTHERWISE PRECAUTIONS SUCH AS MATTING, SHIELDING, SHORING, OR SITE OBSERVATION SHALL BE UTILIZED AS NECESSARY.

PROFILE



MATERIAL						
CONST. METHOD	492' (1) OPEN TRENCH	(10)	125' (2) BORE	(10)	733' (1) OPEN TRENCH	(11) (11)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG					

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA # 4954

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 22 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001200	REVISION 0

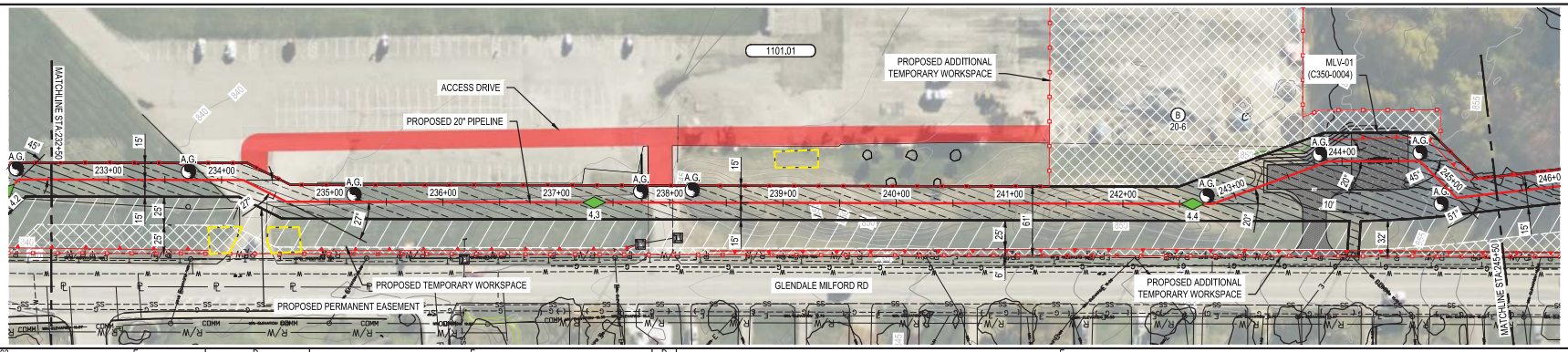
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	1101.01
JURISDICTION	BLUE ASH
ACREAGE	2.0182 ACRES
EASEMENTS	VARIES
REF. DWG. NO.	PNG-C-350-0001283 PNG-C-350-0001167 PNG-B-350-0001010 PNG-C-350-0001338 PNG-D-350-0001001 PNG-M-350-0001009

STATIONING

STA: 234+19.27" FTG (H-RT)
STA: 234+62.27" FTG (H-LT)
STA: 238+15.1° SAG BEND (V)
STA: 242+79.20" FTG (H-LT)
STA: 243+68 FTG 20" (H-RT) 1° OVERBEND (V)
STA: 244+68 FTG 45° (H-RT) 2° SAG BEND (V)
STA: 245+15.51" FTG (H-LT)

PLAN

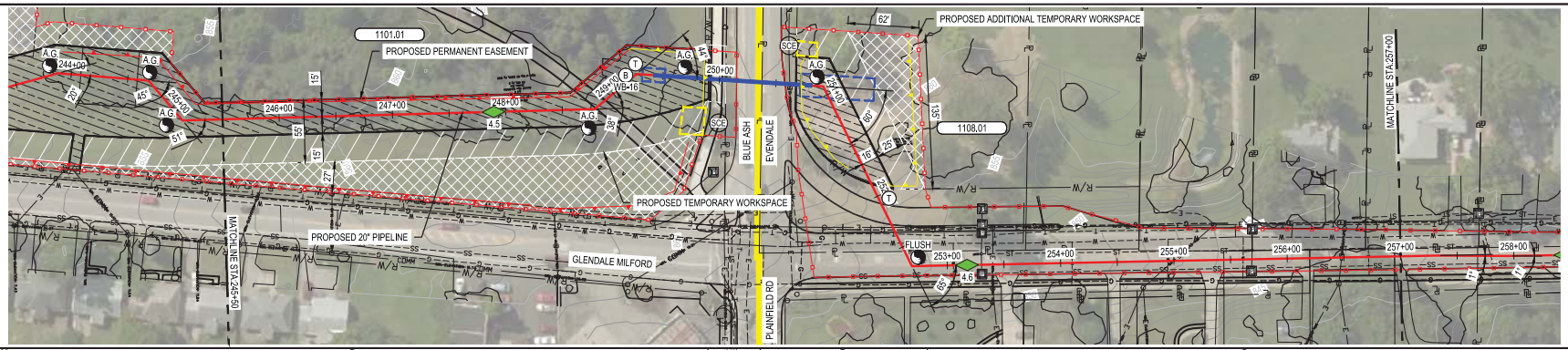


RIGHT-OF-WAY					
OWNERSHIP	1101.01	ROW	1108.01	ROW	
JURISDICTION	BLUE ASH	BLUE ASH/EVENDALE	EVENDALE	EVENDALE	
ACREAGE	2.0182 ACRES		0.1128 ACRES		
EASEMENTS	VARIES		VARIES		
REF. DWG. NO.	PNG-B-350-0001014 PNG-C-350-0001256				

STATIONING

STA: 246+93.1° OVERBEND (V)
STA: 248+78.38° FTG (H-LT)
STA: 249+27.44° FTG (H-RT)
STA: 250+92 FTG 60.0° (H-RT) 4° OVERBEND (V)
STA: 252+69.65° FTG (H-LT)
STA: 253+20.3° SAG BEND (V)
STA: 254+25.2° SAG BEND (V)
STA: 255+08.15° OVERBEND (V)
STA: 255+50.15° SAG BEND (V)
STA: 256+62.1° OVERBEND (V)

PLAN



RESTORE					
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	N/A	E	D
SURFACE TYPE:		SEED - FINE	N/A	SEED - FINE	2

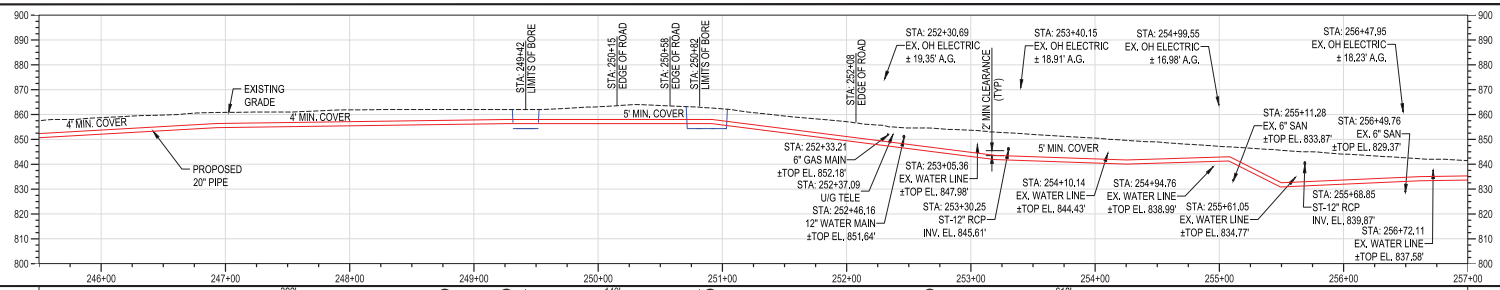
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	LENGTH	JOINT #	HEAT #

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

PROFILE



MATERIAL					
CONST. METHOD	392' (1) OPEN TRENCH	(11)	(11)	140' (2) BORE	(10)	(10)	618' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG				

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE CERTIFICATE OF AUTHORITY

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS			
DATE	INITIALS		
-	-	REGIONAL ENGINEER	
-	-	MGR TECH REC & STD	
11/18/2020	AMP	PRINCIPAL ENGINEER	

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 24 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001202	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

STATIONING

STA: 257+32.1° BEND (H-RT)
STA: 257+96 BEND 1° (H-LT) 1° OVERBEND (V)
STA: 258+58.6° OVERBEND (V)
STA: 259+14.8° SAG BEND (V)
STA: 259+97.1° OVERBEND (V)
STA: 261+27.2° SAG BEND (V)
STA: 262+13.6° OVERBEND (V)
STA: 262+59.5° SAG BEND (V)
STA: 263+81.6° OVERBEND (V)
STA: 264+37.4° SAG BEND (V)
STA: 268+44.1° BEND (H-LT)

PLAN

RESTORE	
TRENCH TYPE:	SEE DWG PNG-C-350-0001293
SURFACE TYPE:	THROUGH PNG-C-350-0001295
	FOR RESTORATION TYPE DETAIL

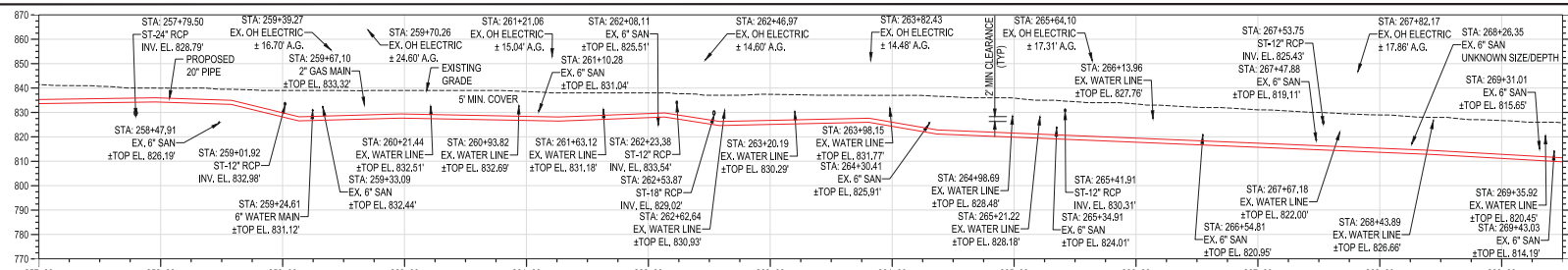
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CON)	JOINT #	HEAT #
STA.	WELD #	JOINT LENGTH (CON)	JOINT #	HEAT #

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

PROFILE



MATERIAL	
CONST. METHOD	1250' — 1 — OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO — AMANDA PALM — E-84075 — REGISTERED PROFESSIONAL ENGINEER — 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 25 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001203	REVISION 0

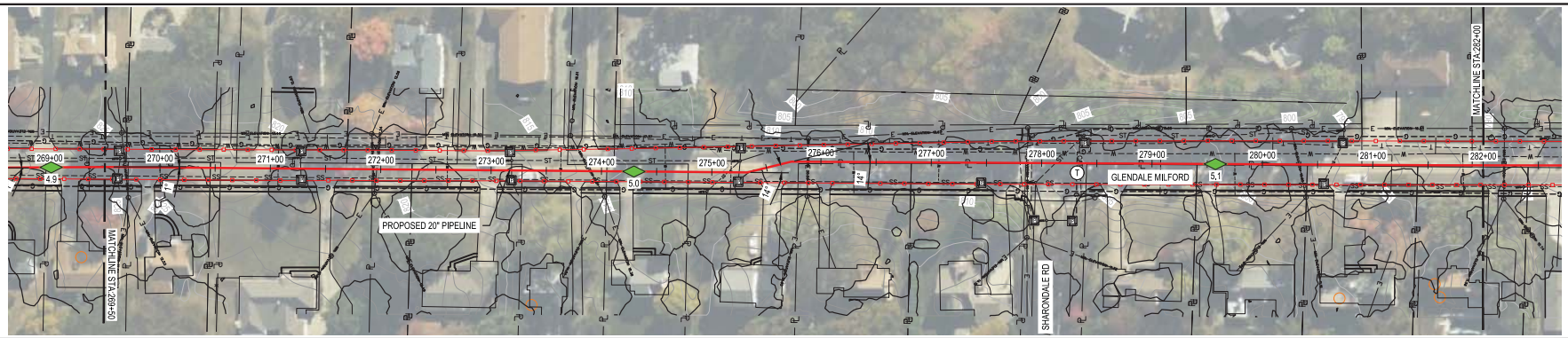
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

STATIONING

STA. 269+55 BEND 1° (H-RT) 1° SAG BEND (V)
STA. 270+43.6' SAG BEND (V)
STA. 270+94.4' OVERBEND (V)
STA. 271+50.8' OVERBEND (V)
STA. 272+09.6' SAG BEND (V)
STA. 274+93.4' SAG BEND (V)
STA. 275+32.14' BEND (H-LT)
STA. 275+73 BEND 14° (H-RT) 2° OVERBEND (V)
STA. 277+18.4' OVERBEND (V)
STA. 277+81.4' SAG BEND (V)
STA. 278+21.1' SAG BEND (V)
STA. 278+78.4' OVERBEND (V)
STA. 281+62.4' SAG BEND (V)

PLAN



RESTORE	
TRENCH TYPE:	SEE DWG PNG-C-350-0001293
SURFACE TYPE:	THROUGH PNG-C-350-0001295
	FOR RESTORATION TYPE DETAIL

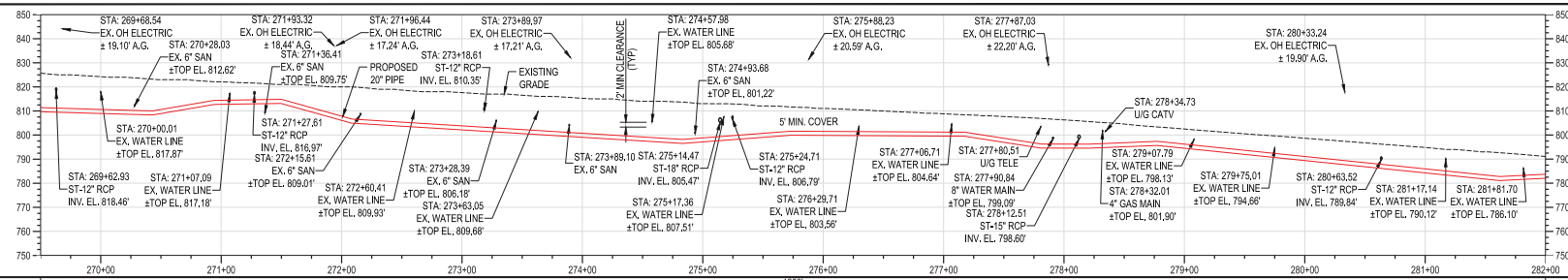
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON)	JOINT LENGTH	JOINT #	HEAT #

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

PROFILE



MATERIAL	1250'
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION 4952

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 26 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001204	0

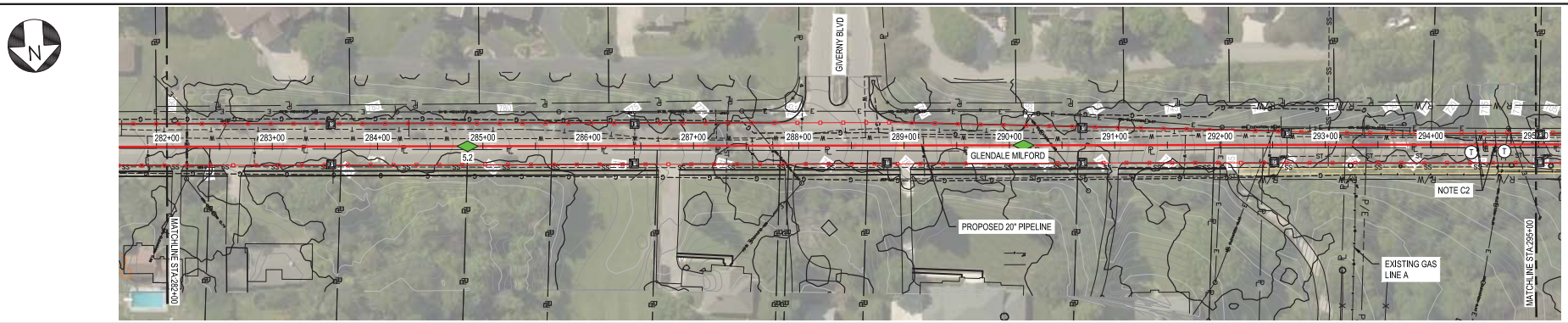
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

STATIONING

STA: 282+38.8' OVERBEND (V)
STA: 282+77.5' SAG BEND (V)
STA: 283+33.1' SAG BEND (V)
STA: 284+97.3' OVERBEND (V)
STA: 285+82.1' SAG BEND (V)
STA: 286+54.2' SAG BEND (V)
STA: 287+20 FTG 11° OVERBEND (V)
STA: 287+53 FTG 11° SAG BEND (V)
STA: 288+38.4' OVERBEND (V)
STA: 291+19.1' OVERBEND (V)
STA: 292+83.1' SAG BEND (V)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL
SURFACE TYPE:	

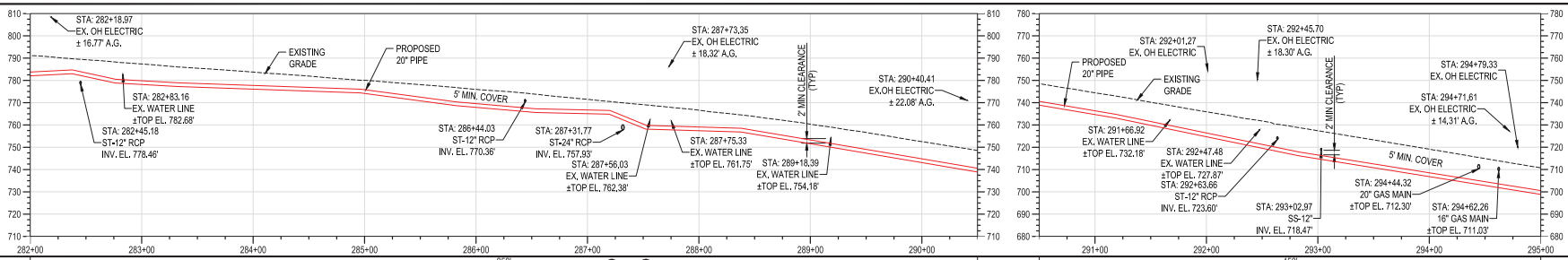
PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	JOINT LENGTH	JOINT #	HEAT #
STA.	WELD #	(CON.)			

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.
C2. FIBER WRAP TO BE INSTALLED AT BOTH DUKE GAS LINE CROSSINGS.

PROFILE



MATERIAL	
CONST. METHOD	850' OPEN TRENCH (1) (11) (11) — 450' OPEN TRENCH (1)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA # 4652

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 27 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001205	0

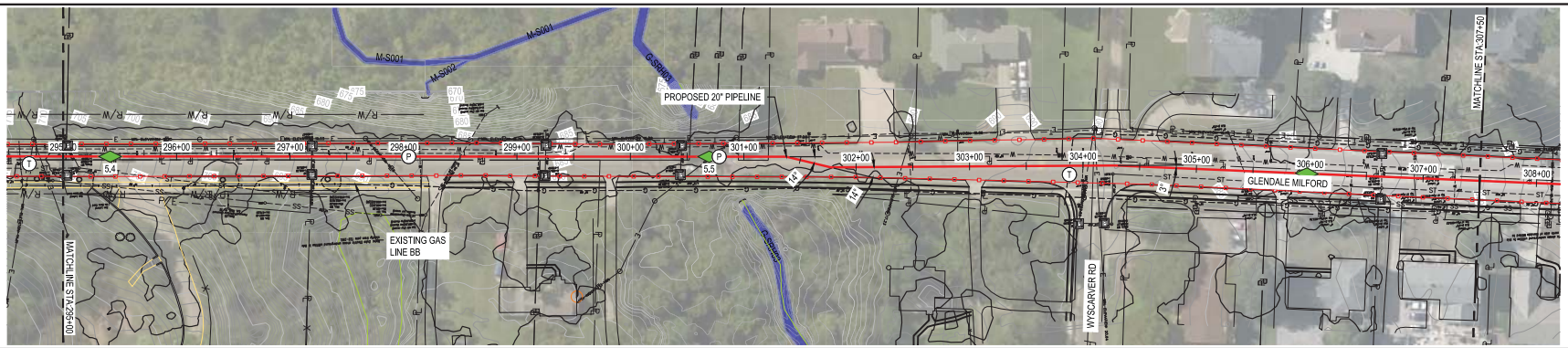
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

STATIONING

STA: 297+29.4° SAG BEND (V)
STA: 297+88.3° OVERBEND (V)
STA: 299+13.3° SAG BEND (V)
STA: 300+50 FTG 14° SAG BEND (V)
STA: 300+70 FTG 13° OVERBEND (V)
STA: 301+37 BEND 14° (H-RT) 6° OVERBEND (V)
STA: 301+77 BEND 14° (H-LT) 6° SAG BEND (V)
STA: 303+19.5° OVERBEND (V)
STA: 303+79.4° SAG BEND (V)
STA: 304+28.3° BEND (H-RT)
STA: 305+00.3° OVERBEND (V)

PLAN



RESTORE

TRENCH TYPE: SEE DWG PNG-C-350-0001293
SURFACE TYPE: THROUGH PNG-C-350-0001295
FOR RESTORATION TYPE DETAIL

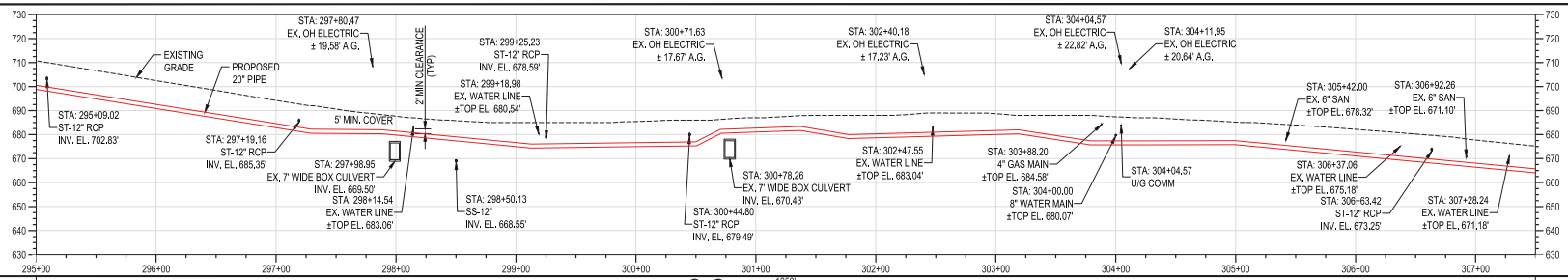
PIPE DATA (SLOPE STATIONING)

STA.	WELD # (CON)	LENGTH	JOINT	HEAT #
STA.	WELD # (CON)			

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

PROFILE



MATERIAL	11 11 1 1250'
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORITY 11/13/2020 1:13 PM

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS			
DATE	INITIALS		
-	-	REGIONAL ENGINEER	
-	-	MGR TECH REC & STD	
11/18/2020	AMP	PRINCIPAL ENGINEER	

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 28 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001206	REVISION 0

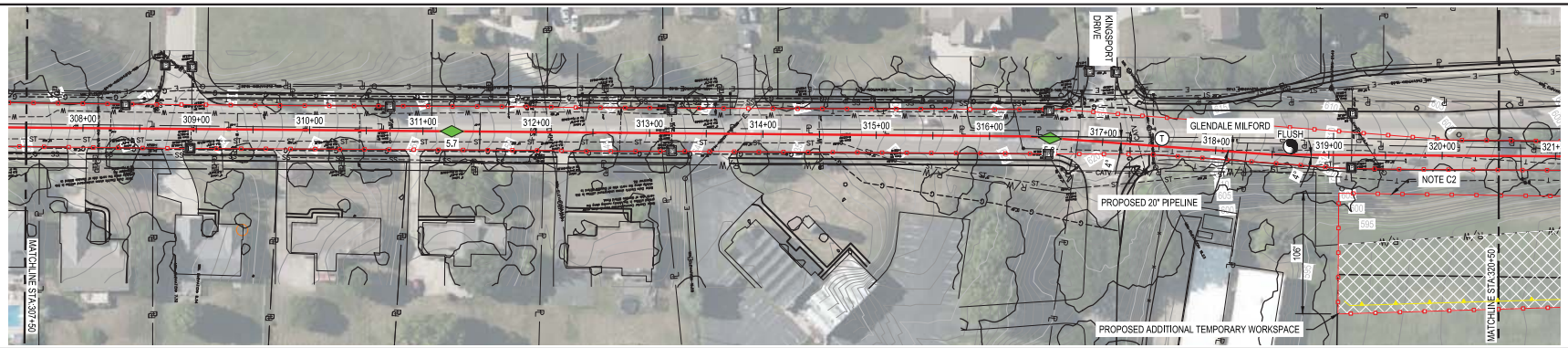
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

STATIONING

STA: 309+07.5' SAG BEND (V)
STA: 309+48.10' OVERBEND (V)
STA: 310+28.5' SAG BEND (V)
STA: 311+40.5' SAG BEND (V)
STA: 312+03.8' OVERBEND (V)
STA: 312+59.3' SAG BEND (V)
STA: 314+38.1' SAG BEND (V)
STA: 316+34 BEND 4" (HA-17) 1' OVERBEND (V)
STA: 319+49 BEND 4" (HA-17) 1' OVERBEND (V)
STA: 319+59.2' SAG BEND (V)

PLAN



RESTORE

TRENCH TYPE: SEE DWG PNG-C-350-0001293
SURFACE TYPE: THROUGH PNG-C-350-0001295
FOR RESTORATION TYPE DETAIL

D
2

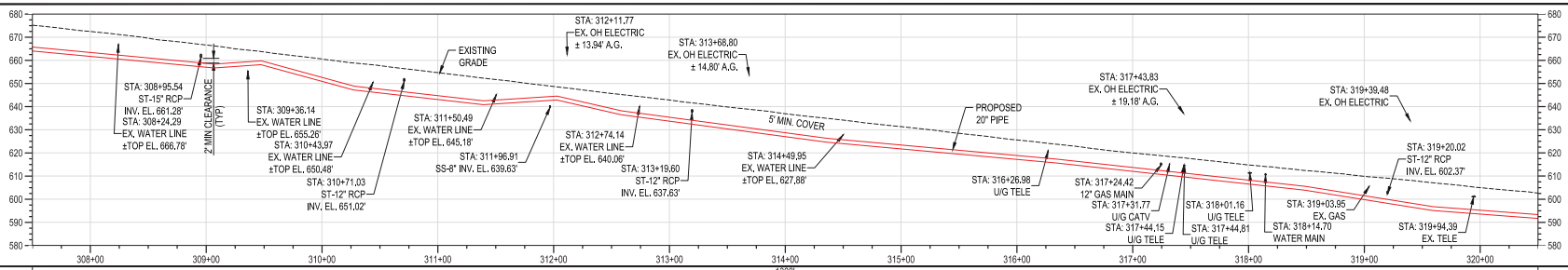
PIPE DATA (SLOPE STATIONING)

STA.	WELD # (CON.)	JOINT LENGTH	JOINT #	HEAT #

NOTE:
1. MAINTAIN 1 LANE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
2. RESIDENTIAL DRIVEWAY ACCESS MUST BE MAINTAINED FOR LOCAL RESIDENTS.

CONSTRUCTION NOTE:
C1. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.
C2. CONTRACTOR SHALL NOT DISTURB TREES OR SLOPE.

PROFILE



MATERIAL	1300'
CONST. METHOD	1 OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4952

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 29 OF 64 | DWG SCALE AS NOTED
DWG DATE 01/13/2020 | SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001207 | REVISION 0

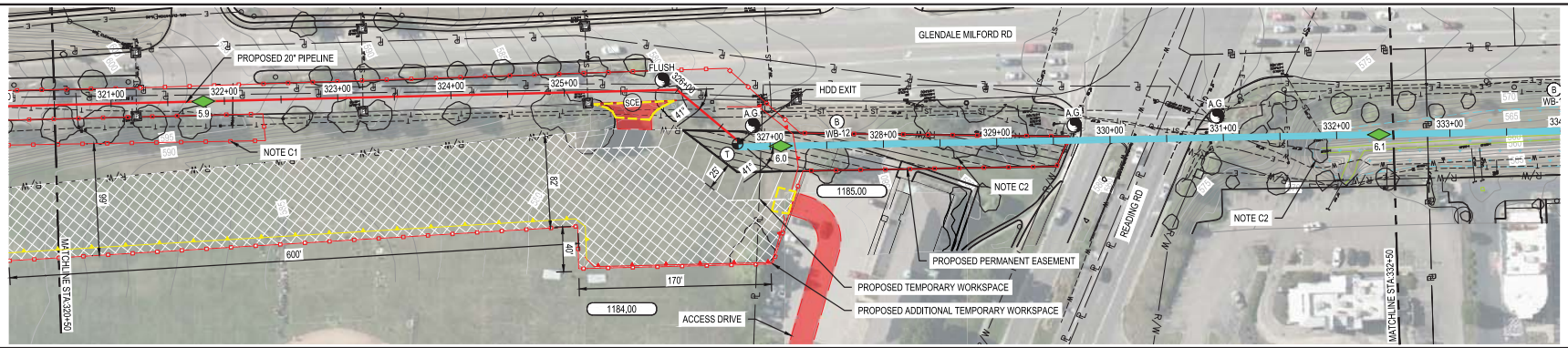
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP	ROW	1184.00	1185.00	ROW	
JURISDICTION	EVENDALE	EVENDALE	EVENDALE	EVENDALE	
ACREAGE		0.2266 ACRES			
EASEMENTS		VARIES			
REF. DWG. NO.	PNG-C-350-0001275	PNG-C-350-0001283 PNG-C-350-0001167	PNG-B-350-0001013 PNG-B-350-0001014	PNG-C-350-0001273	

STATIONING

STA: 322+97 1° OVERBEND (V)
STA: 324+54 1° SAG BEND (V)
STA: 325+99 FTG 41° (H-RT) 1° SAG BEND (V)
STA: 326+78 41° FTG (H-LT)
STA: 327+12 FTG 9° OVERBEND (V)

PLAN



RESTORE				
TRENCH TYPE:	SEE DWG PNG-C-350-0001293	D	E	N/A
SURFACE TYPE:	THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	2	SEED - FINE	N/A

PIPE DATA (SLOPE STATIONING)

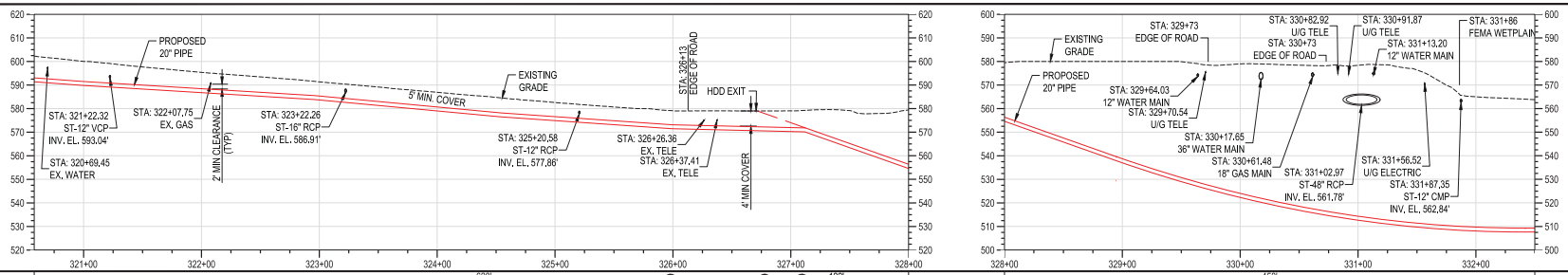
STA.	WELD #	(CON)	JOINT LENGTH	(CON)	JOINT #	HEAT #

CONSTRUCTION NOTE:

C1. CONTRACTOR SHALL NOT DISTURB TREES OR SLOPE.

C2. CONTRACTOR SHALL NOT CLEAR LANDSCAPING TREES IN HDD, UNLESS INSTRUCTED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR.

PROFILE



MATERIAL											
CONST. METHOD	628' (1)	(11)	(11)	(11)	122' (2)	450' (2)
	OPEN TRENCH				HDD	HDD
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG					

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4652

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

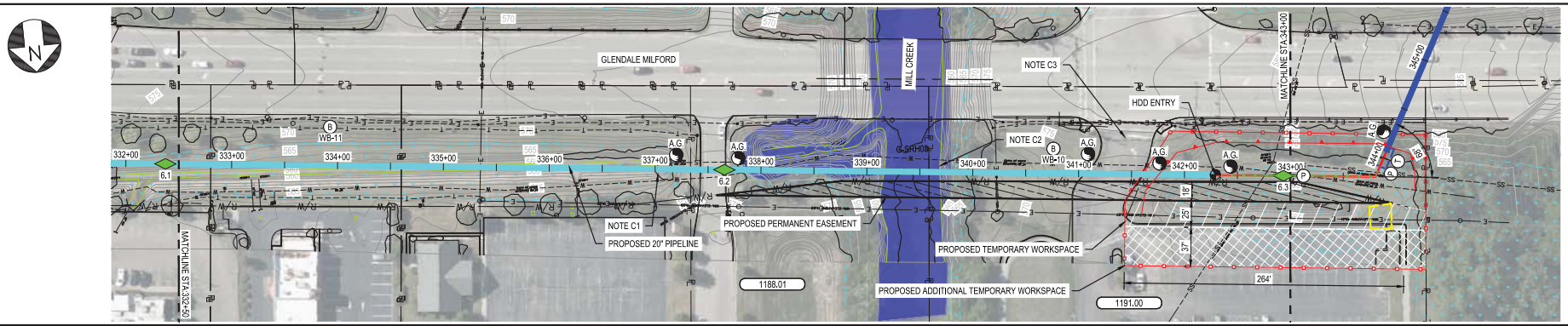
SHEET(S) 30 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001208	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	ROW	1188.01	1191.00
OWNERSHIP	EVENDALE	EVENDALE	EVENDALE
ACREAGE		0.0485 ACRES	0.1578 ACRES
EASEMENTS		VARIES	VARIES
REF. DWG. NO.	PNG-B-350-0001013	PNG-C-350-0001273	PNG-B-350-0001013 PNG-C-350-0001303

STATIONING

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	N/A	E
SURFACE TYPE:		N/A	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	LENGTH	JOINT	HEAT #
	(CON)		(CON)	

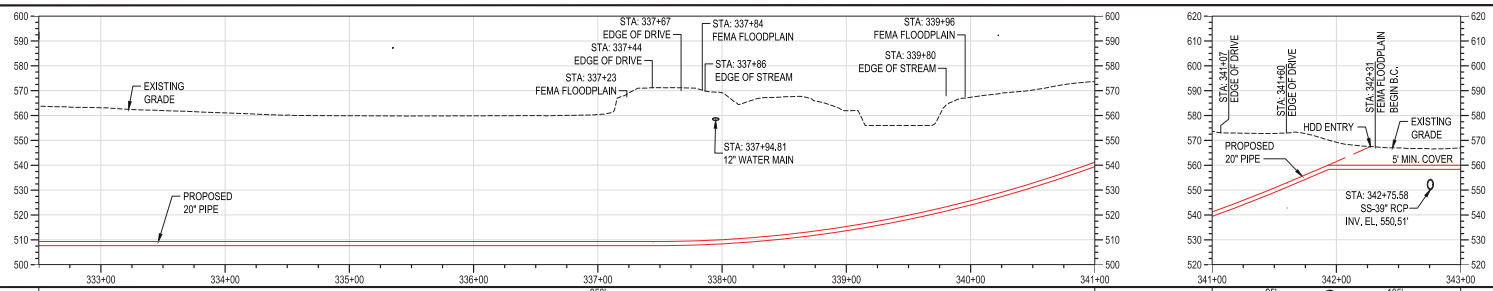
CONSTRUCTION NOTE:

C1. CONTRACTOR SHALL NOT CLEAR LANDSCAPING TREES IN HDD, UNLESS INSTRUCTED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR.

C2. CONTRACTOR SHALL HAND CLEAR MINIMUM 16' CENTERED OVER PIPELINE IN HDD, UNLESS INSTRUCTED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR. CLEARING IS NOT REQUIRED WITHIN 50' OF STREAM EDGE.

C3. CONTRACTOR SHALL MAINTAIN COMMERCIAL ACCESS FOR BUSINESS AT ALL TIMES.

PROFILE



MATERIAL	850' (2) HDD	95' (2) HDD	105' (1) OPEN TRENCH
CONST. METHOD			
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG		

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS	DATE	INITIALS
AREA CODE	-	REGIONAL ENGINEER	-	-
ACCOUNT NUMBER	Q3680	MGR TECH REC & STD	-	-
PROJECT NUMBER	1880115	PRINCIPAL ENGINEER	11/18/2020	AMP
DRAWING BY	AKT			
STATION ID	C350			
CHECKER INITIALS	CNS			

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 31 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001209	REVISION 0

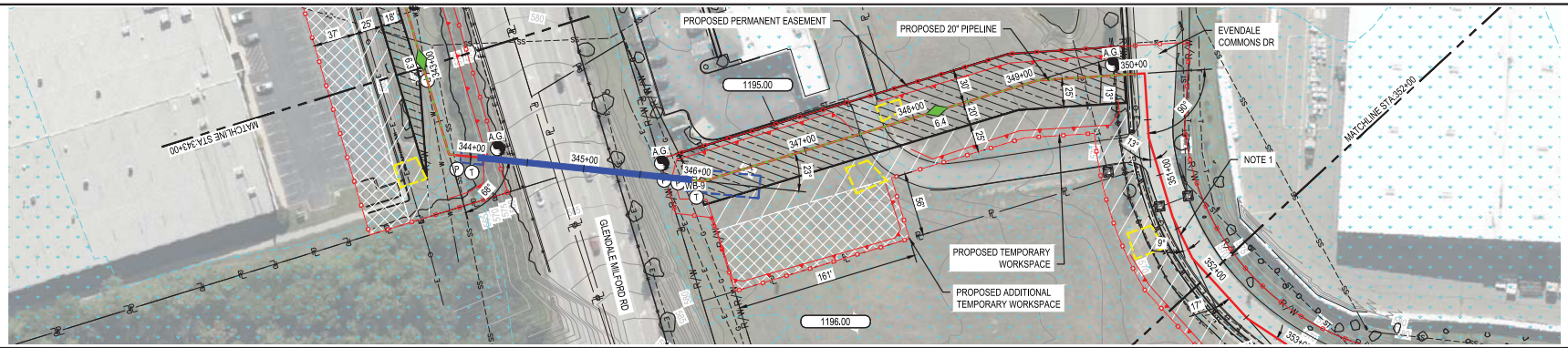
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	ROW	1195.00	ROW	
JURISDICTION	EVENDALE	EVENDALE	EVENDALE	
ACREAGE		0.4533 ACRES		
EASEMENTS		50' EASEMENT		
REF. DWG. NO.	PNG-C-350-0001257	PNG-B-350-0001012	PNG-C-350-0001303	

STATIONING

STA. 343+39 4° SAG BEND (V) · STA. 343+60 FTG 90° (H-LT) 3° OVERBEND (V) · STA. 346+62 FTG 22° (H-RT) 2° OVERBEND (V) · STA. 347+44 3° OVERBEND (V) · STA. 349+15 BEND 13° (H-RT) 3° SAG BEND (V) · STA. 350+09 FTG 90° (H-RT) 1° SAG BEND (V) · STA. 350+66 13° BEND (H-LT) · STA. 351+39 9° BEND (H-LT) · STA. 351+79 17° BEND (H-LT)

PLAN



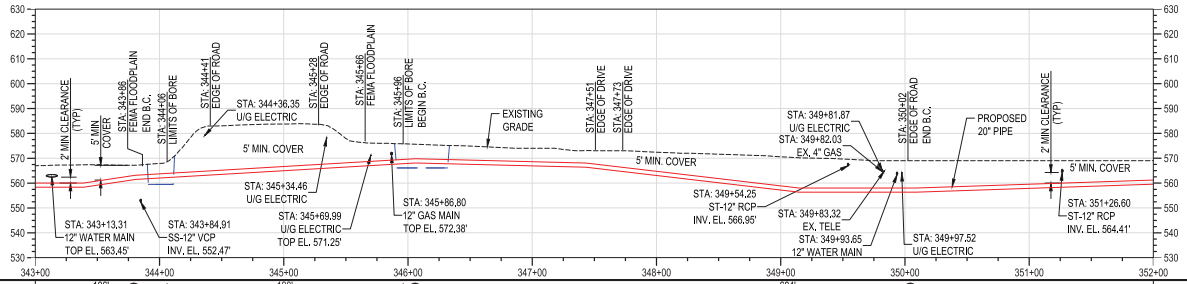
RESTORE							
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	N/A	E	D	E	D
SURFACE TYPE:		SEED - ROUGH	N/A	SEED - FINE	1	SEED - FINE	2

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	LENGTH	JOINT #	HEAT #
STA.	WELD #	(CON.)			

NOTE:
1. ROUTE SHALL BE FIELD ADJUSTED AS NECESSARY FOR TRENCH TO STAY IN ONE LANE AS MUCH AS PRACTICAL. CONTRACTOR SHALL MAINTAIN ONE LANE OPEN AT ALL TIMES.

PROFILE



MATERIAL			
CONST. METHOD	106' (1) (10) OPEN TRENCH	190' (2) BORE	604' (1) (11) (10) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG		

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 32 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001210	REVISION 0

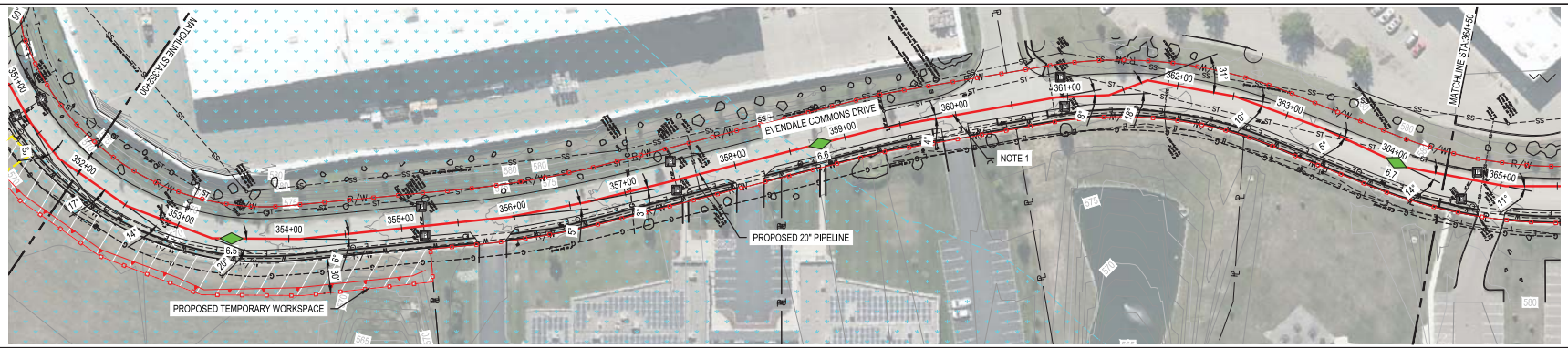
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	ROW
JURISDICTION	EVENDALE
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001293

STATIONING

STA. 352+52 BEND 14° (H-LT) 1° OVERBEND (V)
STA. 353+32 BEND 20° (H-LT) 1° SAG BEND (V)
STA. 354+10 6° BEND (H-LT)
STA. 355+95 5° BEND (H-LT)
STA. 356+66 3° BEND (H-LT)
STA. 358+91 10° OVERBEND (V)
STA. 359+32 BEND 4° (H-RT) 9° SAG BEND (V)
STA. 359+72 10° SAG BEND (V)
STA. 360+12 10° OVERBEND (V)
STA. 360+90 8° BEND (H-RT)
STA. 361+38 BEND 18° (H-LT) 2° SAG BEND (V)
STA. 361+73 31° FTG (H-RT)
STA. 362+52 BEND 10° (H-RT) 1° OVERBEND (V)
STA. 363+33 5° BEND (H-RT)
STA. 364+15 14° BEND (H-LT)

PLAN



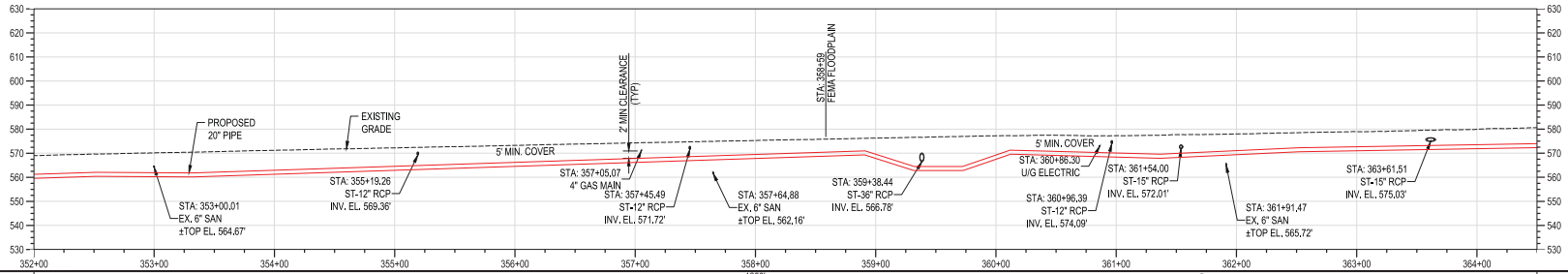
RESTORE	
TRENCH TYPE:	SEE DWG PNG-C-350-0001293
SURFACE TYPE:	THROUGH PNG-C-350-0001295
	FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	JOINT LENGTH	JOINT #	HEAT #

NOTE:
1. USE FLOWABLE FILL AROUND PIPE BENEATH 12", 15", & 36" PIPE TO PREVENT FLOW OF WATER ALONG PIPELINE. SEE BACKFILL TYPE F DETAIL ON DWG PNG-C-350-0001293.
2. ROUTE SHALL BE FIELD ADJUSTED AS NECESSARY FOR TRENCH TO STAY IN ONE LANE AS MUCH AS PRACTICAL. CONTRACTOR SHALL MAINTAIN ONE LANE OPEN AT ALL TIMES.

PROFILE



MATERIAL	
CONST. METHOD	OPEN TRENCH (1250') (11)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 4952

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE	INITIALS	
-	-	REGIONAL ENGINEER
-	-	MGR TECH REC & STD
11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 33 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001211	REVISION 0

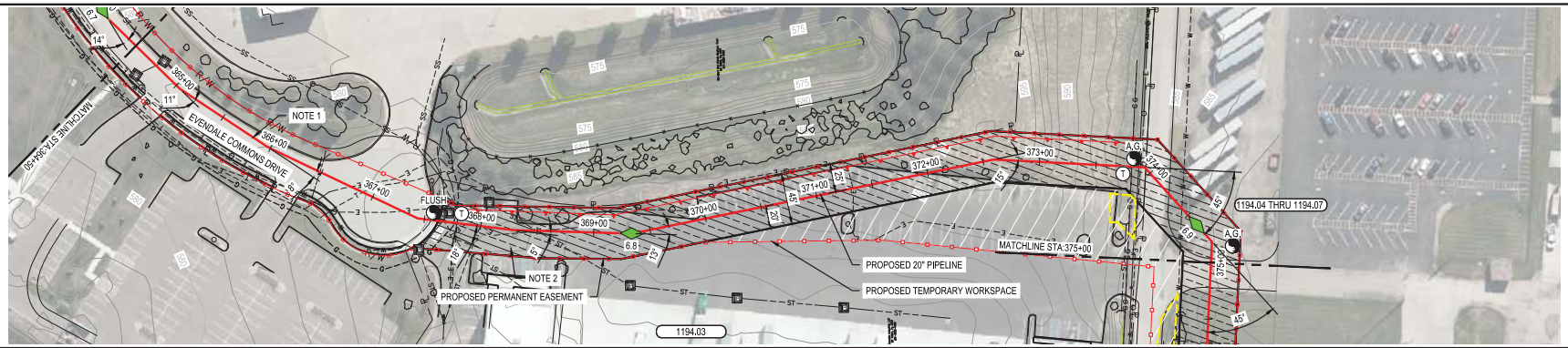
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP	ROW	1194.03	1194.04 THRU 1194.07
JURISDICTION	EVENDALE	EVENDALE	EVENDALE
ACREAGE		0.6555 ACRES	2.7728 ACRES
EASEMENTS		45' EASEMENT	50' EASEMENT
REF. DWG. NO.			

STATIONING

STA: 365+04 11° BEND (H-LT)
STA: 365+98 BEND 8° (H-LT) 5° OVERBEND (V)
STA: 366+62 5° SAG BEND (V)
STA: 367+44 BEND 18° (H-LT) 4° SAG BEND (V)
STA: 368+30 5° BEND (H-LT)
STA: 369+34 BEND 13° (H-LT) 3° OVERBEND (V)
STA: 371+60 4° SAG BEND (V)
STA: 372+59 BEND 15° (H-RT) 11° OVERBEND (V)
STA: 373+63 7° SAG BEND (V)
STA: 373+93 45° FTG (H-RT)
STA: 374+47 2° SAG BEND (V)
STA: 374+92 FTG 45° (H-RT) 2° OVERBEND (V)

PLAN



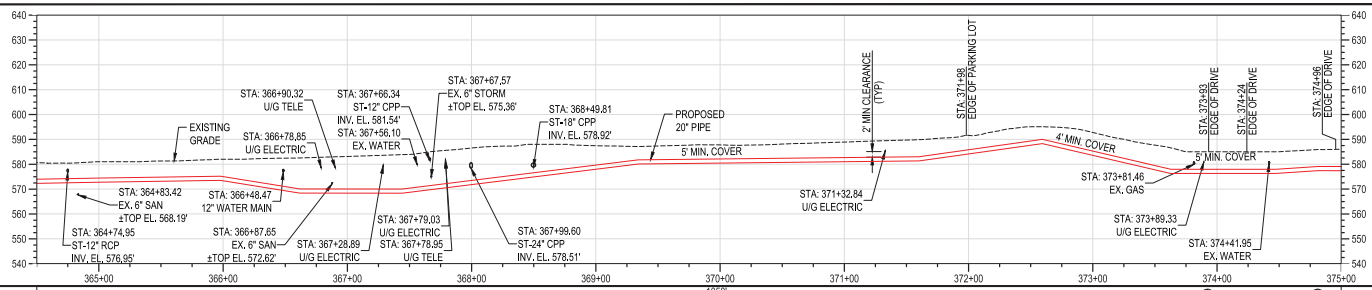
RESTORE						
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	D	D	E	D	E
SURFACE TYPE:		2	1	SEED - ROUGH	1	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	LENGTH (CON.)	JOINT	HEAT #
STA.	WELD #	LENGTH (CON.)	JOINT	HEAT #

NOTE:
1. ROUTE SHALL BE FIELD ADJUSTED AS NECESSARY FOR TRENCH TO STAY IN ONE LANE AS MUCH AS PRACTICAL. CONTRACTOR SHALL MAINTAIN ONE LANE OPEN AT ALL TIMES.
2. CONTRACTOR SHALL MAINTAIN COMMERCIAL ACCESS FOR BUSINESS AT ALL TIMES.

PROFILE



MATERIAL	
CONST. METHOD	1050' (1) OPEN TRENCH (11) (11)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA #4652

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 34 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001212	REVISION 0

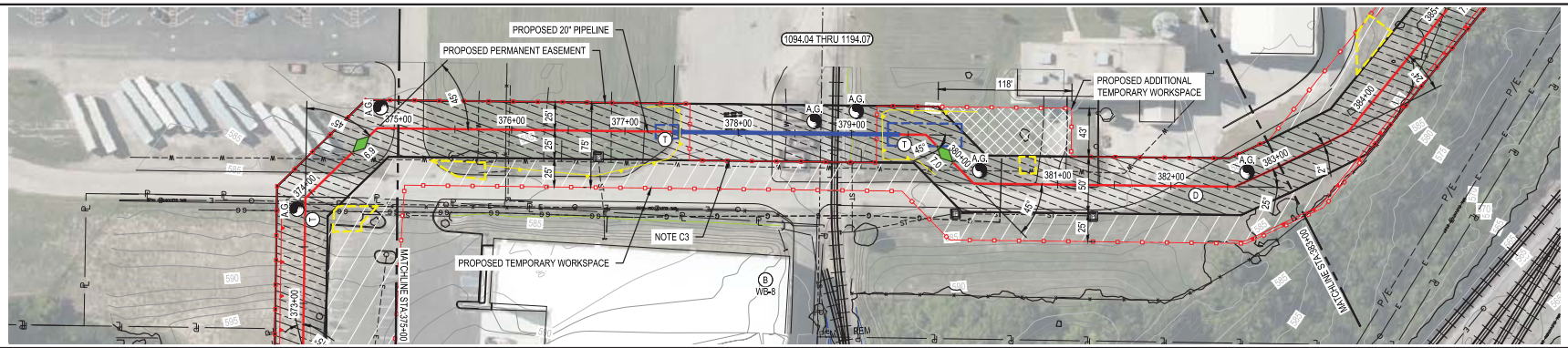
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	1094.04 THRU 1194.07
JURISDICTION	EVENDALE
ACREAGE	2.7728 ACRES
EASEMENTS	50' EASEMENT
REF. DWG. NO.	PNG-B-350-0001012 PNG-C-350-0001258 PNG-C-350-0001312

STATIONING

STA: 376+80 10° OVERBEND (V)
STA: 377+22 10° SAG BEND (V)
STA: 379+66 FTG 45° (H-RT) 0° SAG BEND (V)
STA: 380+26 FTG 45° (H-LT) 5° OVERBEND (V)
STA: 382+56 25° BEND (H-LT)
STA: 382+96 2° BEND (H-LT)

PLAN



RESTORE

TRENCH TYPE:	D	E	N/A	E	D	E
SURFACE TYPE:	1	SEED - ROUGH	N/A	SEED - ROUGH	1	SEED - ROUGH

SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CON.)	JOINT #	HEAT #

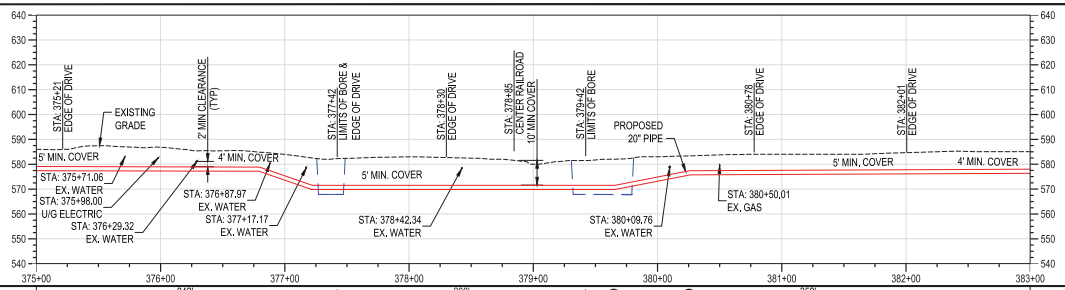
CONSTRUCTION NOTE:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. CONTRACTOR SHALL MAINTAIN ACCESS TO LOADING DOCK AT ALL TIMES.

PROFILE



MATERIAL	
CONST. METHOD	242' OPEN TRENCH (1) · 200' BORE (2) · (11) · (11) · 358' OPEN TRENCH (1)
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO COA # 4652

STATE OF OHIO · AMANDA PALM · E-84075 · REGISTERED PROFESSIONAL ENGINEER · 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 35 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001213	REVISION 0

C/HAMILTON COUNTY/C350

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12/4/2020 1:08:11 PM

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

Summary: Exhibit CCP Drawings for Preconstruction Conference Set 1 Part 2 electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and Kingery, Jeanne W and Vaysman, Larisa