



155 East Broad Street
20th Floor
Columbus, Ohio, 43215

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February 24, 2021

Ms. Tanowa M. Troupe
Ohio Power Siting Board
PUCO Docketing Division
180 East Broad Street, 11th Floor
Columbus, OH 43215-3716

Re: Case No. 20-1411-GA-BTX , In the Matter of the Application of Duke Energy Ohio, Inc., for a Certificate of Environmental Compatibility and Public Need for the Construction of the Bethel-Batavia Pipeline

Dear Ms. Troupe:

Duke Energy Ohio, Inc., is filing, herewith, 60% engineering drawings, in the above-referenced case.

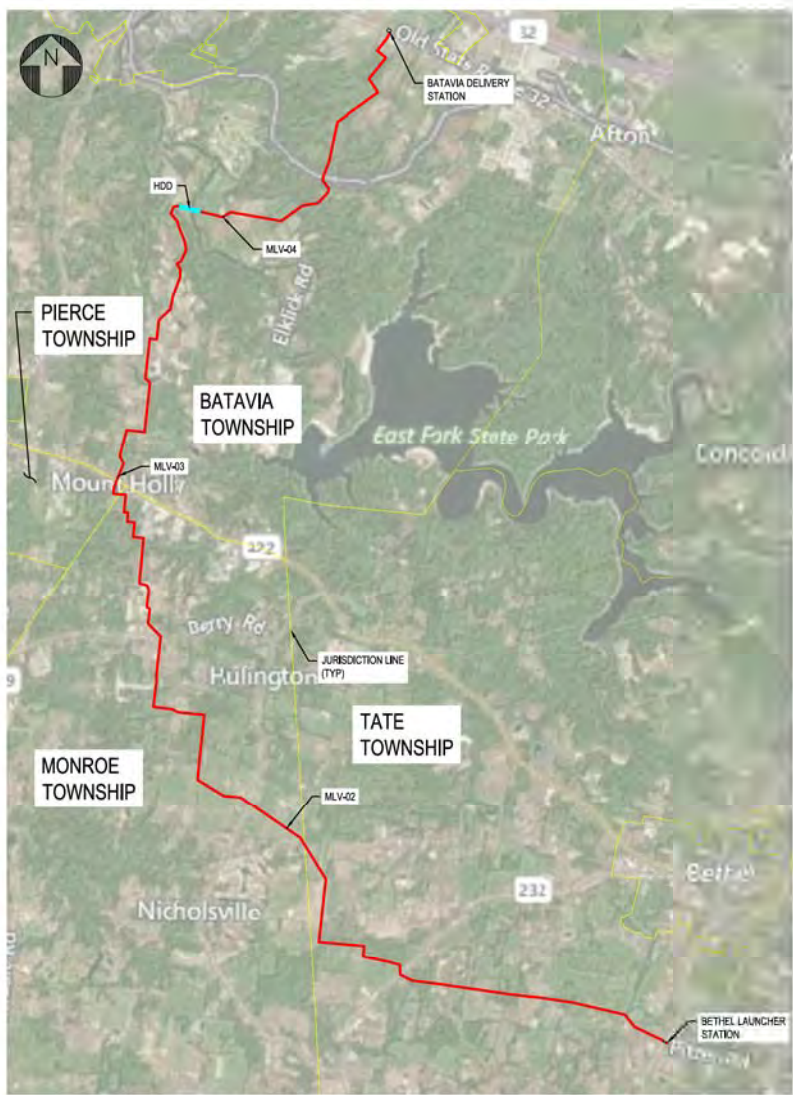
Please contact me if you have any questions.

Sincerely,

Emily A. Olive, CP
Paralegal

Appendix 6 – Engineering Drawings

Preferred Route



C367 12" PIPELINE
SCALE: NTS

DRAWING INDEX			
PAGE #	DRAWING NUMBER	SHEET DESCRIPTION	REV.
1	PNG-G-XXX-0001000	COVER SHEET	C
2	PNG-G-XXX-0001001	SIGN-OFF SHEET	C
3	PNG-G-XXX-0001002	GENERAL NOTES SHEET 1	C
4	PNG-G-XXX-0001003	LEGEND, SYMBOLS, & ABBREVIATIONS	C
5	PNG-G-XXX-0001004	PIPELINE BILL OF MATERIAL	C
6	PNG-G-XXX-0001005	ACCESS ROUTE OVERVIEW MAP	C
7	PNG-G-XXX-0001006	ACCESS ROUTE 1	C
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9	PNG-G-XXX-0001008	ALIGNMENT SHEET	C
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23	PNG-G-XXX-0001022	ALIGNMENT SHEET	C
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25	PNG-G-XXX-0001024	ALIGNMENT SHEET	C
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29	PNG-G-XXX-0001028	ALIGNMENT SHEET	C
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33	PNG-G-XXX-0001032	ALIGNMENT SHEET	C
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BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-JUN-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS: AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS: PROJECT NUMBER	AW1082		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS: PROJECT NUMBER	AW1982		
					DRAWING BY	AKT		
					STATION ID			
					CHECKER INITIALS	JMP		

REGIONAL PROJECT #

MGR TECH REC & STD

DUKE ENERGY

Piedmont Natural Gas

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**C367 PIPELINE
COVER SHEET
CLERMONT COUNTY, OH**
KELLOGG, OH

SHEET(S)	1 OF 5	DWG SCALE	AS NOTED
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG - G-XXX-0001000		
REVISION	C		

DESIGN REVIEW OF COMPLETED CONSTRUCTION JOB SPONSOR _____ DATE _____ FIELD CHANGE REQUEST DOCUMENT REQUIRED: YES <input type="checkbox"/> NO <input type="checkbox"/> TRANSMISSION DESIGN DOCUMENT REQUIRED: YES <input type="checkbox"/> NO <input type="checkbox"/> SYSTEMS OPERATION SUPERVISOR VALVES AND NUMBERS REVIEWED REVIEWED BY _____ DATE _____ VALUES THAT HAVE BEEN ABANDONED AND REMOVED # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____	CORROSION ENGINEERING CONDITION OF COATING WHEN DELIVERED TO JOB: NO. PROPOSED _____ NO. INSTALLED _____ APPR. BY _____ COATING TYPE _____ GOOE <input type="checkbox"/> FAIR <input type="checkbox"/> POOR <input type="checkbox"/> NO. TESTED OK (P/S INDICATOR) _____ INSPECTION: INSULATION CHECKED _____ PLASTIC SEPARATIONS INSTALLED <input type="checkbox"/> VISUAL <input type="checkbox"/> JEEP <input type="checkbox"/> INSULATION CHECKED _____ NO. CHECKED _____ CONTINUITY OF COUPLINGS CHECKED _____ TYPE PATCH MATERIAL _____ CASING CHECKED FOR SHORT <input type="checkbox"/>	TEST CONN. PER STD. 7.7.1 NO. INSTALLED _____ NO. TESTED OK (P/S INDICATOR) _____ PLASTIC SEPARATIONS INSTALLED <input type="checkbox"/> CONTINUITY OF COUPLINGS CHECKED _____ CASING CHECKED FOR SHORT <input type="checkbox"/>	PERMIT(S) REQUIRED _____ _____ _____ _____ _____	HYDROSTATIC PRESSURE TEST ALL LINES OPERATING ABOVE 60 PSIG REQUIRE STRENGTH TESTING BEFORE PLACING INTO SERVICE. PRESSURE CHARTS AND FORMS SHOULD BE FORWARDED TO GAS ENGINEERING, TEST PER PROCEDURE FOC-PR-2040. REQUIRED TEST PRESSURE RANGE MIN. <u>1500</u> PSIG TO MAX. <u>1600</u> PSIG HOURS <u>8</u> MEDIUM WATER SIGNATURE _____ DATE _____	HYDROSTATIC TEST WATER DISCHARGE REQUIREMENTS PERMIT REQUIRED FOR ALL DISCHARGE. CONTACT GAS OPERATION REGULATORY COMPLIANCE TO ARRANGE FOR DISCHARGE PERMIT. SAMPLING AND TESTING REQUIRED FOR ALL DISCHARGES TO SURFACE WATERS. CONTACT LOCAL POTW FOR OFFSITE DISCHARGE REQUIREMENTS AND LOCAL WATER DISTRICT. HYDROSTATIC TEST WATER DISCHARGE SHALL BE PER GAS STANDARD 10.3.	COUNTY OF _____ ITEM NO. _____ SHEET NO. _____																							
	PROJECT CONTACTS CONSTRUCTION SCOTT COLVIN (W) 513-287-2968 (C) 513-417-3211 ENGINEERING SPONSOR: BRAD SEITER KEVIN KUJISTI (W) 513-287-4415 (W) 513-287-4407 (C) 859-466-6690 (C) 614-406-4686	INSTALLED PIPE & FITTING MAOP VERIFICATION C367 TO BE FILLED IN BY MAOP ENGINEER <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>WALL THICKNESS</th> <th>GRADE</th> <th>% SYMS</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>0.375"</td> <td>X52</td> <td>17.5%</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	SIZE	WALL THICKNESS	GRADE	% SYMS	12"	0.375"	X52	17.5%																	HYDROSTATIC TEST PROJECT CONTACTS CONSTRUCTION MANAGER: _____ (C) XXX-XXX-XXXX CONTRACTOR CONSTRUCTION MANAGEMENT SUPERVISOR: _____ (C) XXX-XXX-XXXX PROJECT MANAGER: BRAD SEITER (C) 859-466-6690 CORROSION ENGINEER: _____ (C) XXX-XXX-XXXX CONSTRUCTION & MAINTENANCE (C&M) MANAGER: _____ (C) XXX-XXX-XXXX		
SIZE	WALL THICKNESS	GRADE	% SYMS																										
12"	0.375"	X52	17.5%																										
	PIPE INSTALLED ON JOB <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>KIND</th> <th>WALL THICKNESS</th> <th>EST. PIPE LENGTH</th> <th>ACTUAL PIPE LENGTH</th> <th>ACTUAL FITTING & VALVE LENGTH</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>ERW</td> <td>0.375"</td> <td>81.673</td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: right;">TOTAL</td> <td>81.673 FT</td> <td> </td> <td> </td> </tr> </tbody> </table>		SIZE	KIND	WALL THICKNESS	EST. PIPE LENGTH	ACTUAL PIPE LENGTH	ACTUAL FITTING & VALVE LENGTH	12"	ERW	0.375"	81.673			TOTAL			81.673 FT			DESIGN MAOP PER CLASS 4 <u>1000</u> PSIG. OPERATING OF LINE <u>535</u> PSIG MIN. PRESSURE RATING OF VALVE, FLANGE OR FITTING _____ PSIG. I HEREBY CERTIFY THAT ALL MATERIAL INSTALLED IS RATED HIGHER THAN THE DESIGN MAOP OF THIS LINE AND THAT THE MATERIAL WAS INSTALLED AS DESIGNED UNLESS NOTED ON MATERIAL LIST. MAOP ENGINEER SIGNATURE _____ DATE _____								
SIZE	KIND	WALL THICKNESS	EST. PIPE LENGTH	ACTUAL PIPE LENGTH	ACTUAL FITTING & VALVE LENGTH																								
12"	ERW	0.375"	81.673																										
TOTAL			81.673 FT																										

CONFORMING TO THE OFFICE OF PIPELINE SAFETY'S REGULATIONS (SECTION 192.243, PARAGRAPH F), WELDING FOR PIPELINE IS REQUIRED TO BE MAINTAINED AS A PART OF THE PIPELINE'S PERMANENT RECORD.

TO MEET THIS REQUIREMENT, THE INSPECTOR SHALL IDENTIFY EACH WELD OF THIS PIPELINE BY NUMBERING AND LOCATING THE WELD ON THE CONSTRUCTION DRAWING AND COMPLETING THE INFORMATION BLOCK BELOW. NUMBERS MUST MATCH THOSE ON X-RAY SHEET. ALL WELDS MUST BE IN ACCORDANCE WITH COMPANY SPECIFICATIONS.

TO BE FILLED OUT BY DESIGN ENGINEER					
PIPE SIZE	12"				
PIPE WALL THK.	0.375"				
PIPE GRADE	X52				
SYMS PER MAOP	17.5%				
WELDING SPEC.					
% XRAY	100%				
TO BE FILLED OUT BY INSPECTOR					
TOTAL NO. OF WELDS MADE					
TOTAL NO. OF WELDS X-RAYED					
TOTAL NO. OF WELDS REJECTED					
TOTAL NO. OF WELDS REPAIRED					
TOTAL NO. OF WELDS REPLACED					

NOTE: TOTAL OF REPAIRED PLUS REPLACED WELDS SHOULD EQUAL AMOUNT OF REJECTED WELDS

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA. 01567

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NO. DATE REVISION/DESCRIPTION A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	BIT ORK (APP) DESCRIPTION AKT LMP CNS AREA CODE AKT AMP CNS ACCOUNT NUMBER AW1082 AKT AMP CNS PROJECT NUMBER AW1982 DRAWING BY AKT STATION ID CHECKER INITIALS AMP	APPROVALS DATE INITIALS _____ _____ _____ _____	REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER	C367 PIPELINE SIGN OFF SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020	SHEET(S) 2 OF 5 DWG SCALE AS NOTED DWG DATE 10/12/2020 SUPERSEDED DRAWING NUMBER PNG-G-XXX-0001001 REVISION C GKELLOGG/CMP
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GENERAL NOTES:

- INSTALLER SHALL FURNISH ALL MATERIALS NOT PROVIDED BY THE COMPANY UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS, INCLUDING EQUIPMENT, TRANSPORTATION, SERVICES, AND PERFORM ALL NECESSARY WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREINAFTER.
- IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO VERIFY ALL DIMENSIONS GIVEN ON THE DRAWINGS. ANY ITEM IN QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER IN WRITING VIA RFI PROCESS PRIOR TO PROCEEDING WITH THE WORK.
- INSTALLER SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURROUNDING AREAS. CONTRACTOR SHALL NOT UNNECESSARILY DISTURB EXISTING CONDITIONS WITHIN CONSTRUCTION LIMITS. DISCRETION SHALL BE PER COMPANY REPRESENTATIVE.
- PROPOSED ELEVATIONS AND DIMENSIONS INDICATE TOP OF PIPE, UNLESS OTHERWISE NOTED. UNLESS SPECIFICALLY NOTED, DEPTHS OF EXISTING FACILITIES ARE ESTIMATED ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DEPTH AND LOCATION OF ALL FACILITIES PRIOR TO COMMENCING WORK.
- ALL BELOW GROUND WELDS SHALL BE COATED PER APPLICABLE COATING SPECIFICATION WITH DENSO 7200 PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS OR AS APPROVED OTHERWISE. SURFACE PREPARATION AND BLASTING SHALL ADHERE TO PERTINENT DESIGN AND CONSTRUCTION STANDARDS AND COATING MATERIAL SPECIFICATIONS.
- PIPE BACKFILL SHALL BE IN ACCORDANCE WITH PERTINENT DUKE BACKFILL SPECIFICATIONS.
- PRESSURE TESTING SHALL MEET THE REQUIREMENTS OF DUKE'S PRESSURE TESTING STANDARD, PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- ALL DISTANCES SHOWN ARE GRID DISTANCES BASED ON OHIO STATE PLANE COORDINATE SOUTH ZONE (3402) NAD 83.
- ANY CHANGES TO THE DESIGN SHOWN ON DRAWINGS SHALL BE APPROVED BY COMPANY REPRESENTATIVE IN WRITING VIA RFI PROCESS.

CONSTRUCTION NOTES:

- EXISTING OVERHEAD AND BELOWGROUND FACILITIES MAY BE IN THE WORK AREA. INSTALLER IS RESPONSIBLE FOR IDENTIFYING FACILITIES LOCATED AND IS RESPONSIBLE FOR MAINTENANCE AND PRESERVATION OF THESE FACILITIES.
- PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS, INSTALLER IS REQUIRED TO CALL 811 FOR UTILITY LOCATES A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF WORK. NO EXTRA COMPENSATION WILL BE ALLOWED FOR DELAYS FROM ANY WORK PROVIDED BY OTHER UTILITIES.
- IF EXISTING UTILITIES OF ANY TYPE ARE ENCOUNTERED IN THE FIELD AND DEEMED TO BE IN CONFLICT WITH INSTALLATION OF FACILITIES, INSTALLER SHALL NOTIFY THE PROJECT MANAGER IN WRITING VIA RFI PROCESS IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, INSTALLER SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND PRIVATE DRAINS OR SEWERS. RESTORATION OF THESE FACILITIES IS TO BE PERFORMED ONCE CONSTRUCTION IS COMPLETE AND ARE CONSIDERED INCIDENTAL COSTS OF THE PROJECT.
- ALL DRAWING MEASUREMENTS ARE TO BE TAKEN FROM EXISTING GRADE. FINAL GRADE SHALL BE MATCHED TO SURROUNDING GRADE AS PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- INSTALLER IS TO REMAIN WITHIN CONSTRUCTION WORKING LIMITS. ACCESS TO AREAS OUTSIDE WORKING LIMITS MUST BE COORDINATED WITH THE OWNER OR DUKE ENERGY PROJECT MANAGER.
- ALL EXCESS EXCAVATION, CONSTRUCTION DEMOLITION DEBRIS AND UNSUITABLE MATERIALS THAT DO NOT CONTAIN ASBESTOS OR OTHER POTENTIAL HAZARDOUS MATERIALS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- STANDARD SPECIFICATIONS REFERENCED ON THIS SHEET AND CONSTRUCTION PLANS ARE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED TO BE A PART OF THIS CONTRACT.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY DUKE OR COMPANY REPRESENTATIVE. FINAL PAYMENT SHALL BE MADE AFTER ALL OF THE INSTALLER'S WORK HAS BEEN ACCEPTED AND APPROVED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- DURING CONSTRUCTION, ALL LOOSE MATERIAL THAT ARE DEPOSITED IN THE FLOW LINE OF OUTLETS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, SHALL BE REMOVED AT THE END OF EACH WORK DAY.
- ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE EXTENDED TO OUTLET INTO AN EXISTING DRAINAGE WAY. A RECORD OF ALL FIELD TILE FOR ONSITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE INSTALLER AND TURNED OVER TO THE PROJECT MANAGER UPON COMPLETION OF THE PROJECT.
- INSTALLER IS REQUIRED TO MAINTAIN A SET OF ISSUED FOR CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE JOB SITE. ANY MODIFICATIONS OR ALTERATIONS TO THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT MANAGER.
- INSTALLER IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. INSTALLER IS RESPONSIBLE FOR THE CONSTRUCTION METHODS AND TECHNIQUES, SEQUENCES, TIME OF PERFORMANCE, AND ALL SAFETY PRECAUTIONS.

MINIMUM DEPTH OF BURIAL SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.

- ALL PIPELINES BEING CROSSED ARE TO BE PROTECTED WITH A MINIMUM OF (3) 4 FEET X 18 FEET WOODEN MATS.
- CONTRACTOR TO PROTECT SIDEWALKS AND BIKE PATHS FROM VEHICLE TRAFFIC UTILIZING STEEL PLATING, TIMBER MATTING OR SIMILAR. EXISTING SIDEWALK, BITUMINOUS SHOULDER, CURB/GUTTER AND/OR ROADWAY PAVEMENT DISTURBED OR DAMAGED DUE TO THE PERMITTED WORK SHALL BE REPLACED IN KIND UP TO THE LIMITS AS DETERMINED AND DIRECTED BY THE CITY REPRESENTATIVE IN WHICH DAMAGE WAS DONE.
- PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS, FOR OPEN DITCH EXCAVATION, A MINIMUM OF TWO FEET OF SEPARATION SHALL BE MAINTAINED BETWEEN ALL CROSSING STRUCTURES. SEPARATION BETWEEN CROSSING STRUCTURES AND PIPELINES THAT ARE INSTALLED VIA DIRECTIONAL DRILLING METHODS IS AT THE DISCRETION OF ENGINEERING.
- DURING BACKFILL, A SIX INCH CROWN SHALL BE PLACED ON ALL DISTURBED AREAS. COMPACTION REQUIREMENTS SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- BOLTS FOR FLANGES TO BE TORQUED PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- MAINLINE GIRTH WELDS SHALL BE 100% X-RAYED PER PERTINENT WELDING PROCEDURES. ALL OTHER WELDS SHALL BE NON DESTRUCTIVELY TESTED PER PERTINENT WELDING PROCEDURES.
- CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) SHALL BE USED UNDER ROADS AND ADJACENT TO ROADS AND SHALL CONFORM TO FOC-ST-3000 BACKFILL AND RESTORATION, OR AS OTHERWISE DIRECTED BY COMPANY.
- CONTRACTOR MAY PROPOSE CONVENIENCE BORES. ANY CHANGES IN INSTALLATION METHOD FROM THAT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN ADVANCE BY DUKE.

SURVEY INVESTIGATION NOTES:

- BEARINGS AND COORDINATES ARE RELATIVE TO NAD83 OHIO STATE PLANE, SOUTH ZONE (3402), US. FOOT. VERTICAL DATUM IS NAVD88.

GEOTECHNICAL DATA

- THE GEOTECHNICAL INFORMATION PROVIDED IN THE DRAWINGS IS A GENERAL SUMMARY. REFER TO THE APPLICABLE GEOTECHNICAL REPORT IN THE CONTRACT DOCUMENTS FOR MORE DETAILED INFORMATION.

CATHODIC PROTECTION & AC MITIGATION NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NON-STOCK CP AC MATERIALS AND ALL MISCELLANEOUS PARTS TO COMPLETE PROJECT PER CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, ELECTRICAL CODES, STATE AND LOCAL CODES AND STANDARDS, AND LOCAL ELECTRICAL DISTRIBUTION COMPANY REQUIREMENTS. CONTRACTOR SHALL ALSO INSTALL ALL OWNER PROVIDED CP AND AC MATERIALS AND EQUIPMENT. PARTS INCLUDE, BUT ARE NOT LIMITED TO, WIRING AND MOUNTING MATERIALS, METER SOCKET, DISCONNECT EQUIPMENT, ENCLOSURES, TRANSIENT VOLTAGE SURGE SUPPRESSORS, AC MAIN BUSS TERMINATION, CIRCUIT BREAKERS, AND OTHER ELECTRICAL EQUIPMENT REQUIRED. ACTUAL LENGTH OF WIRING IS DEPENDENT ON DISTANCE FROM INSTALLATION.

DESIGN NOTES:

- FIELD BENDING (COLD BENDING) SHALL BE PERFORMED IN ACCORDANCE WITH FOC-ST-2050 BENDING STEEL PIPE. FOR 12" PIPE, FIELD BEND SHALL BE LIMITED TO 29 DEGREES OR LESS PER 40' STICK OF PIPE. CUT SEGMENTABLE FITTINGS REQUIRED FOR ALL ANGLES ABOVE 29 DEGREES.
- MINIMUM ROPING RADIUS FOR 12" PIPE: 800' BASED ON 3-JOINT RADIUS.
- UNLESS NOTED OTHERWISE MINIMUM DESIGN CLEARANCE BETWEEN PIPELINE AND FOREIGN STRUCTURES IS 2' (24"). FIELD ADJUSTMENT MAY BE REQUIRED TO LESS THAN DESIGNED CLEARANCE, BUT IN NO CIRCUMSTANCES WILL CLEARANCE BE LESS THAN 1' (12").
- CONTRACTOR SHALL ADHERE TO DUKE OHIO HDD GUIDELINES AS APPLIES TO HDD DRILLING WASTES AND PROTECTION OF WATER RESOURCES, SEE TRENCHLESS GUIDANCE DOCUMENTS, DUKE ENERGY NATURAL GAS BUSINESS UNIT, DATED APRIL 2020.

RESTORATION:

- RESTORATION SHALL BE CONTROLLED BY APPLICABLE PERMITS AND AS DIRECTED BY COMPANY'S INSPECTOR.
- RESTORATION LIMITS AND DETAILS PROVIDED IN THE DRAWINGS SHALL BE SUBJECT TO FIELD MODIFICATIONS TO MEET VARYING CONDITIONS.
- ADDITIONAL RESTORATION REQUIREMENTS AND QUALIFICATIONS SHALL BE AS DESCRIBED IN THE BID DOCUMENTS.
- MATERIAL REQUIREMENTS SHALL MEET ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, WHERE CONFLICT EXISTS BETWEEN THESE DRAWINGS, ODOT SPECIFICATIONS, LOCAL REQUIREMENTS, OR OTHER BID DOCUMENTS REQUIREMENTS. CLARIFICATION SHALL BE SOUGHT IN ADVANCE FROM THE PROJECT MANAGER IN WRITING VIA RFI PROCESS.

ENVIRONMENTAL NOTES:

- INSTALLER IS TO CONSTRUCT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AT THE COMMENCEMENT OF THE PROJECT, PROVIDE MAINTENANCE AND ASSURE EFFECTIVENESS THROUGHOUT THE DURATION OF THE PROJECT.
- CARE SHALL BE TAKEN TO MINIMIZE DOWNSTREAM SILTATION. RAW BANKS MAY BE SEEDED AND MULCHED TO PREVENT EROSION.
- ALL SPILLS INCLUDING ORGANIC SOILS, VEGETATION AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN SUCH A MANNER AS TO NOT ERODE INTO ANY BODY OF WATER OR WETLAND UNLESS APPROVED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR.
- EROSION AND SEDIMENT CONTROLS SHALL BE PLACED WHERE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE WORK AREA.
- INLET FILTERS ARE REQUIRED AT ALL SEWER INLETS, GRATES AND MANHOLES FOR SEDIMENT CONTROL.
- TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF SAID STOCKPILE ONTO OFFSITE AREAS.
- ALL ENVIRONMENTAL MEASURES SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- NO ASPHALT SLURRY OR CUTTING MAY ENTER STORM DRAINS. MATERIALS MUST BE VACUUMED OR OTHERWISE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
- DUKE ENERGY SHALL CONTACT ODNR AND USFWS WITHIN 24 HOURS IF STATE OR FEDERAL THREATENED OR ENDANGERED SPECIES ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES THAT COULD ADVERSELY IMPACT THE IDENTIFIED PLANTS OR ANIMALS SHALL BE IMMEDIATELY HALTED UNTIL AN APPROPRIATE COURSE OF ACTION HAS BEEN AGREED UPON BY DUKE ENERGY AND THE APPROPRIATE REGULATORY AGENCIES.
- THE CONSTRUCTION CONTRACTOR SHALL COMPLY WITH FUGITIVE DUST RULES BY THE USE OF WATER SPRAY OR OTHER APPROPRIATE DUST SUPPRESSANT MEASURES WHENEVER NECESSARY.
- THE CONSTRUCTION CONTRACTOR SHALL NOT CROSS STREAMS BY FORMING FOR CONSTRUCTION ACCESS AND SHALL INSTEAD EMPLOY TIMBER MATTING OR OTHER METHODS THAT AVOID OR MINIMIZE STREAM BED DISTURBANCES.
- THE CONSTRUCTION CONTRACTOR SHALL REMOVE ALL TEMPORARY GRAVEL AND OTHER CONSTRUCTION STAGING AREA AND ACCESS ROAD MATERIALS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES, AS WEATHER PERMITS, UNLESS OTHERWISE DIRECTED BY THE LANDOWNER OR DUKE ENERGY. IMPACTED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS IN COMPLIANCE WITH THE OHIO EPA GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS OBTAINED FOR THE PROJECT AND THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CREATED FOR THE PROJECT.
- CONTRACTOR SHALL TEMPORARILY STABILIZE ANY DISTURBED AREAS LEFT UNATTENDED FOR 14 DAYS OR MORE, OR AS OTHERWISE DIRECTED IN THE PROJECT SWPPP.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES UNTIL UPSLOPE STABILIZATION HAS DEVELOPED AS DIRECTED IN THE PROJECT SWPPP.
- ALL SEDIMENT RELEASES BEYOND THE SITE PERIMETER CONTROLS AND SPILLS REGARDLESS OF AMOUNT OR LOCATION ARE TO BE IMMEDIATELY REPORTED TO DUKE ENERGY ENVIRONMENTAL FIELD PROFESSIONAL. IF THE DUKE ENERGY ENVIRONMENTAL FIELD PROFESSIONAL CANNOT BE REACHED, THE DUKE ENERGY SPILL HOTLINE IS TO BE CALLED AT 1-800-527-3853.

DEWATERING:

- ALL DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE SWPPP.
- CONTROL GRADING AROUND EXCAVATIONS TO PREVENT SURFACE WATER FROM FLOWING INTO EXCAVATION AREAS.
- DRAIN OR PUMP AS REQUIRED TO MAINTAIN, INCLUDING DAYS NOT NORMALLY WORKED. ALL EXCAVATIONS FREE OF WATER OR MUD FROM ANY SOURCE, AND DISCHARGE TO APPROVED DRAINS OR CHANNELS. COMMENCE WHEN WATER FIRST APPEARS AND CONTINUE AS REQUIRED TO KEEP EXCAVATION FREE OF STANDING WATER DURING ENTIRE TIME EXCAVATION IS OPEN.
- USE PUMPS OF ADEQUATE CAPACITY TO ENSURE RAPID DRAINAGE OF AREA, AND CONSTRUCTION AND USE DRAINAGE CHANNELS TO SUBDRAINS WITH SUMPS AS REQUIRED BY QUANTITY OF INFLOW.
- WHEN WATER IS FOUND IN THE EXCAVATION DUE TO CONTRACTOR NEGLIGENCE, REMOVE UNSUITABLE EXCESSIVELY WET SUBGRADE MATERIALS AND REPLACE WITH APPROVED COMPACTED EMBANKMENT MATERIAL AS DIRECTED BY OWNER AND AT NO ADDITIONAL COST TO OWNER.
- RIVER/STREAM CROSSINGS EXIST AS INDICATED ALONG THIS PROJECT, REQUIRING EXCAVATION BELOW POTENTIAL STREAM OR RIVER PHREATIC LEVELS. DEWATERING METHODS SHALL INCORPORATE MEANS TO ACCOUNT FOR RISING OR VARYING WATER LEVELS ASSOCIATED WITH THESE BODIES OF WATER AND THEIR INTERCONNECTED WATERWAYS, WHETHER SURFACE OR SUBSURFACE, TO PREVENT THREATENING THE INTEGRITY OF THE EXCAVATION, EXISTING FACILITIES, AND WORK UNDER CONSTRUCTION.
- MAINTAIN AREA DRAINAGE DURING CONSTRUCTION.
- COMPLETE CHANNEL PROTECTION EXPEDITIOUSLY FOLLOWING EXCAVATION.

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	APPROVALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	JMP						

**C367 PIPELINE
GENERAL NOTES SHEET 1
CLERMONT COUNTY, OHIO**

KELLOGG, OH

DUKE ENERGY | Piedmont Natural Gas

MGR TECH REC & STD

PRINCIPAL ENGINEER

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SHEET(S) 3 OF 5	DWG SCALE AS NOTED
DWG DATE 10/12/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -G-XXX-0001002	C
QNEEL00GUC367	

GENERAL RESTRICTIONS

1. STAY IN ROW/EASEMENTS OR WITHIN PREDETERMINED WORKSPACE AREAS.
2. ONLY USE DESIGNATED POINTS OF ACCESS AS APPROVED BY DUKE.
3. NO DIGGING, WORK, OR STORAGE WITHIN 25' OF POWER LINE OR EQUIPMENT INCLUDING GUY WIRES, EXCEPT AT CROSSINGS OF POWER RIGHT OF WAY DESIGNATED ON PLANS.
4. ANY DOT CROSSING NOTIFICATIONS TO BE MADE AS DICTATED BY THE PERMIT OR STATE/DOT PERMIT.
5. INSTALLER IS RESPONSIBLE FOR KNOWING LOCATION OF ALL ENVIRONMENTALLY SENSITIVE AREA RESTRICTIONS PERTAINING TO THIS PROJECT.

ABBREVIATIONS

APPROX.	APPROXIMATE
B.C.	BUOYANCY CONTROL
C.L.	CENTERLINE
CDF	CONTROLLED DENSITY FILL
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATIONS
CP	CATHODIC PROTECTION
DI	DROP INLET
DM	DIAMETER
DIP	DUCTILE IRON PIPE
E	EASTING
EA	EACH
EL/ELEV	ELEVATION
EX	EXISTING
FLC	FOREIGN LINE CROSSING
FM	FORCE MAIN
FT	FEET
FTG	FITTING
H/HORIZ	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILL
H.L.T.	HORIZONTAL LEFT TURN
H.R.T.	HORIZONTAL RIGHT TURN
I/INVERT	INVERT
JAB	JACK AND AUGER BORE
L	LENGTH
LAT	LATITUDE
LF	LINEAR FEET
LONG	LONGITUDE
MAX	MAXIMUM
MIN	MINIMUM
M.H.	MANHOLE
N	NORTHING
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OC	OPEN CUT
O.D.	OUTSIDE DIAMETER
PCC	PORLAND CEMENT CONCRETE
P.V.	POST INDICATOR VALVE
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
R	RADIUS
RD	ROAD
R/W / ROW	RIGHT-OF-WAY
RCR	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SS	SANITARY SEWER
SSD	SOLID STATE DECOUPLER
STA	STATION
TOP	TOP OF PIPE
TWS	TEMPORARY WORKSPACE
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE/COMMUNICATIONS
V/VERT	VERTICAL
W	WIDTH
W.T.	WALL THICKNESS
X-ING	CROSSING

LEGEND

	PROPOSED TEMPORARY WORKSPACE
	PROPOSED PERMANENT EASEMENT
	ADDITIONAL TEMPORARY WORKSPACE
	STABILIZED CONSTRUCTION ENTRANCE
	STREAM & WETLAND CROSSING
	PERIMETER SEDIMENT CONTROL
	J-HOOK SILT FENCE
	DELINEATED WETLAND
	FEMA 100 YEAR FLOOD AREA
	ACCESS PATH
	STREAM
	DITCH
	TREE LINE
	EX. COMMUNICATION LINE
	EX. OVERHEAD LINE
	EX. ELECTRIC LINE
	FENCE
	EX. GAS LINE
	RIGHT-OF-WAY
	RAILROAD
	EX. SANITARY SEWER
	EX. STORM WATER LINE
	EX. WATER LINE
	PROPERTY LINE
	CONSTRUCTION BOUNDARY
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	JURISDICTIONAL LINE
	BUOYANCY CONTROL
	PROPOSED GAS LINE
	HORIZONTAL DIRECTIONAL DRILL
	AUGER BORE
	EXCAVATION FIT.

	POTHOLE LOCATION
	BORING LOCATION
	FLUSH PIPELINE MARKER
	ABOVE GRADE PIPELINE MARKER
	MILE MARKER
	TEST STATION (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	SOLID STATE DECOUPLER (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	COUPON TEST STATION (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	MONOLITHIC INSULATOR JUNCTION BOX (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	AREA CODE			REGIONAL ENGINEER
B	12-16-2020	REVISED 30% DESIGN	AKT	JMP	ACCOUNT NUMBER	AW1962		REGIONAL ENGINEER
C	02-10-2021	100% DESIGN FOR OFSB	AKT	JMP	PROJECT NUMBER	AW1962		REGIONAL ENGINEER
					DRAWING BY	AKT		REGIONAL ENGINEER
					STATION ID			REGIONAL ENGINEER
					CHECKER INITIALS	JMP		REGIONAL ENGINEER



C367 PIPELINE
LEGEND, SYMBOLS, & ABBREVIATIONS
CLERMONT COUNTY, OHIO

SHEET(S)	4 OF 5	DWG SCALE	AS NOTED
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -G-XXX-0001003		C

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KELLOGG, CH

BILL OF MATERIAL							
GROUP	MARK	QTY (FT OR EA)	SIZE	LINE	ITEM NUMBER	DESCRIPTION	AS BUILT QTY
PIPE	1	78,920	12"	C367 PREFERRED ROUTE	1551302	PIPE, 12" NPS X 0.375 W.T., DBL RANDOM LG, BEVELED ENDS, ELECTRIC RESISTANCE WELD, FBE, STL, API 5L PSL-2, GR X52, NO JOINTERS	
	2	2,800	12"	C367 PREFERRED ROUTE	1551284	PIPE, 12" NPS X 0.375 W.T., DBL RANDOM LG, BEVELED ENDS, ELECTRIC RESISTANCE WELD, FBE/PC, STL, API 5L PSL-2, GR X52, NO JOINTERS	
SEGMENTABLE ELBOWS	10	39	12"	C367 PREFERRED ROUTE	1551324	ELBOW PIPE, 12" NPS X 0.375 W.T., BW, 90 DEG, 3D RADIUS, STL, MSS SP-75, GR Y52, FULLY SEGMENTABLE, PAINTED PREFERRED, BARE ACCEPTABLE., MACHINE BEVEL ENDS PER ASME B31.8 APPENDIX I, FIG I-4	
	11	14	12"	C367 PREFERRED ROUTE	1551320	ELBOW PIPE, 12" NPS X 0.375 W.T., BW, 45 DEG, 3D RADIUS, STL, MSS SP-75, GR Y52, FULLY SEGMENTABLE, PAINTED PREFERRED, BARE ACCEPTABLE., MACHINE BEVEL ENDS PER ASME B31.8 APPENDIX I, FIG I-4	
SCARGUARD	20	65	12"	C367 PREFERRED ROUTE	1593272	COATING, ABRASION RESISTANT OVERCOAT, 10" X 30', CANUSA SCAR-GUARD, JOINT COATING	
	21	25	12"	C367 PREFERRED ROUTE	1598071	COATING, ABRASION RESISTANT OVERCOAT, 10" X 50' ROLL, CANUSA SCAR-GUARD	
	22	5	12"	C367 PREFERRED ROUTE	1575278	TOOL, ARO, CANUSA SCAR-GUARD, PERFORATION TOOL	

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A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER
						DRAWING BY
						STATION ID
						CHECKER INITIALS

DATE	INITIALS	REGIONAL ENGINEER

DATE	INITIALS	REGIONAL TECH REC & STD

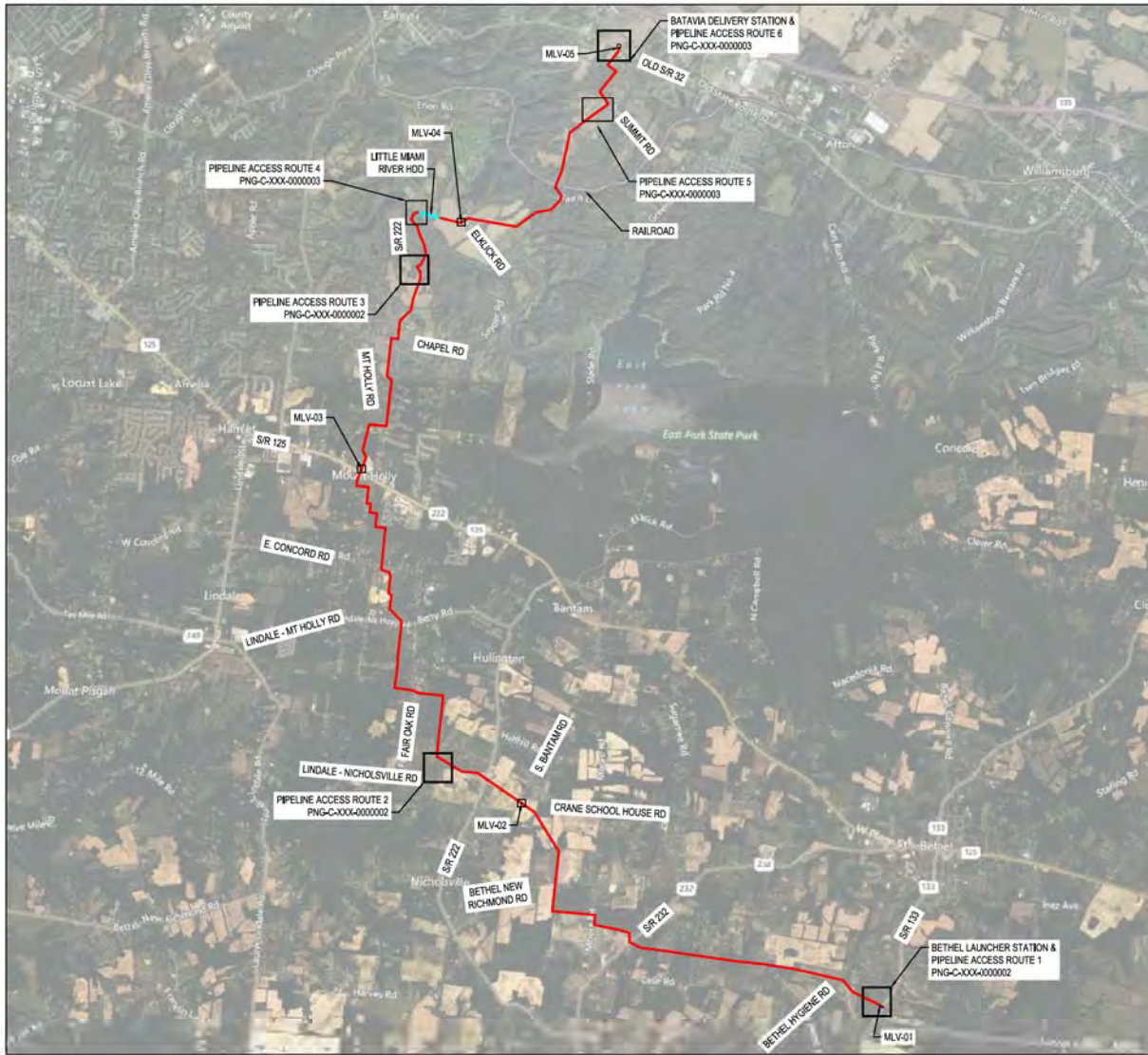



DRAWING BY: AKT
 DATE: _____
 PRINCIPAL ENGINEER: _____
 CHECKER INITIALS: AMP

C367 PIPELINE
PIPELINE BILL OF MATERIAL
CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2009

SHEET(S)	5 OF 5	DWG SCALE	NONE
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -G-XXX-0001004		REVISION
			C

PROFESSIONAL ENGINEER STAMP



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C	02-19-2021	60% DESIGN FOR OPS&B

BY	CHK	APPV	DESCRIPTION
AKT	JMP	CNS	AREA CODE
AKT	JMP	CNS	ACCOUNT NUMBER
AKT	JMP	CNS	PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

APPROVALS	
REGIONAL MANAGER	DATE
MGR TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE



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**C367 PIPELINE
ACCESS ROUTE OVERVIEW MAP
CLERMONT COUNTY, OHIO**

KELLOGG, OH

SHEET(S)	1 OF X	DWG SCALE	NONE
DWG DATE	10/13/2020	SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG -C-XXX-0000001		C	
CNS/KELLOGG/CMP			



BETHEL LAUNCHER STATION & PIPELINE ACCESS PLAN 1

SCALE: 1:150



PIPELINE ACCESS PLAN 2

SCALE: 1:150



PIPELINE ACCESS PLAN 3

SCALE: 1:150

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A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS:AREA CODE
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS:ACCOUNT NUMBER
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS:PROJECT NUMBER
					DRAWING BY
					STATION ID
					CHECKER INITIALS

DATE	INITIALS	APPROVALS
		REGIONAL ENGINEER
		MGR TECH REC & STD
		PRINCIPAL ENGINEER




REGIONAL ENGINEER
 MGR TECH REC & STD
 PRINCIPAL ENGINEER

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**C367 PIPELINE
 ACCESS ROUTE 1
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

SHEET(S)	1 OF X	DWG SCALE	AS-NOTED
DWG DATE	10/13/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-000002		REVISION
CHECKLOGG/CWP			C



PIPELINE ACCESS PLAN 4

SCALE: 1/80



PIPELINE ACCESS PLAN 5

SCALE: 1/80



BATAVIA DELIVERY STATION & PIPELINE ACCESS PLAN 6

SCALE: 1/16

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A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPS&B

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
AKT	JMP	CNS	AREA CODE		
AKT	JMP	CNS	ACCOUNT NUMBER	AW1092	
AKT	JMP	CNS	PROJECT NUMBER	AW1982	
			DRAWING BY	AKT	
			STATION ID		
			CHECKER INITIALS	AMP	

REGIONAL ENGINEER	MGR TECH REC & STD	PRINCIPAL ENGINEER



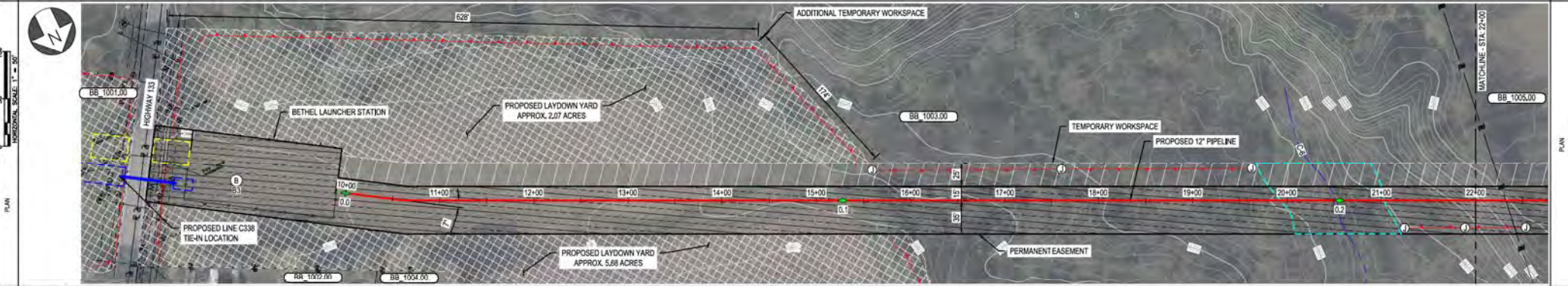
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**C367 PIPELINE
ACCESS ROUTE 2
CLERMONT COUNTY, OHIO**
KELLOGG, OH

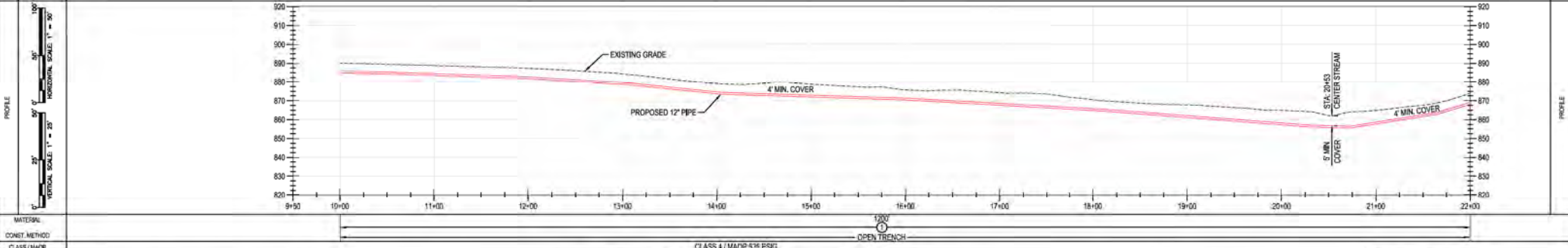
SHEET(S)	1 OF X	DWG SCALE	AS-NOTED
DWG DATE	10/13/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-000003		REVISION C
CNELLG00003P			

BENCH-MARK	OWNERSHIP	BB 1001.00	BB 1003.00
	JURISDICTION	SENNE POWELL TATE TOWNSHIP	FRANKLIN E & PATSY WILSON TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	12"	12"
	WELD #	0.0	0.1
	WELD #	0.0	0.2
	WELD #	0.0	0.0



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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001001 REVISION C

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH

DUKE ENERGY Piedmont Natural Gas

REGIONAL MANAGER MGR TECH REC & STD

PRINCIPAL ENGINEER

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						DRAWING BY AKT
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						CHECKER INITIALS AMP

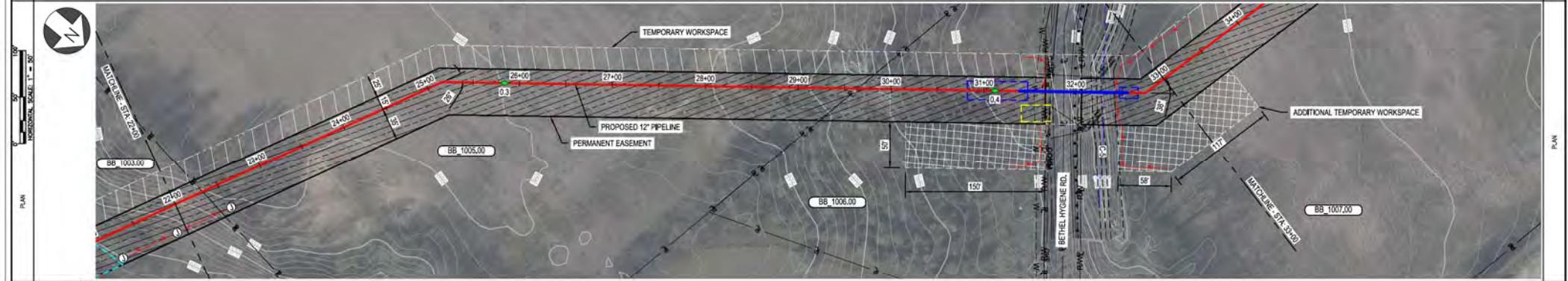
APPROVALS	
DATE	INITIALS
DATE	INITIALS
DATE	INITIALS

REGIONAL MANAGER	DATE	INITIALS
MGR TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

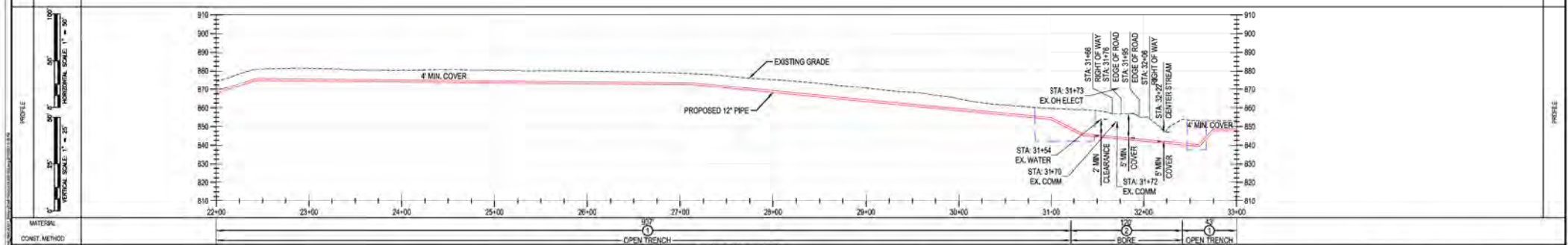
PROFESSIONAL ENGINEER STAMP

RIGHT-OF-WAY	OWNERSHIP	BB 1003.00	BB 1005.00	BB 1006.00	R/W	BB 1007.00
	JURISDICTION	FRANKLIN E & PATSY WILSON TATE TOWNSHIP	LUGAR DESECRETOS LLC TATE TOWNSHIP	ROGER PERRY TATE TOWNSHIP	TATE TOWNSHIP	MARK A & LINDA DENISE STRIMPLE TATE TOWNSHIP
	ACREAGE					
	EASEMENTS					
	REF. DWG. NO.					

STATIONING



PIPE DATA (SLOPE STATIONING)	WELL #	WELL #	WELL #	WELL #	WELL #
	STA	STA	STA	STA	STA



MATERIAL: CLASS 4 / MADO 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISIONS/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSS

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
AKT	JMP	CNS	AREA CODE	-	-
AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-
AKT	JMP	CNS	PROJECT NUMBER	AW1982	-
			DRAWING BY	AKT	-
			STATION ID	-	-
			CHECKER INITIALS	AMP	-

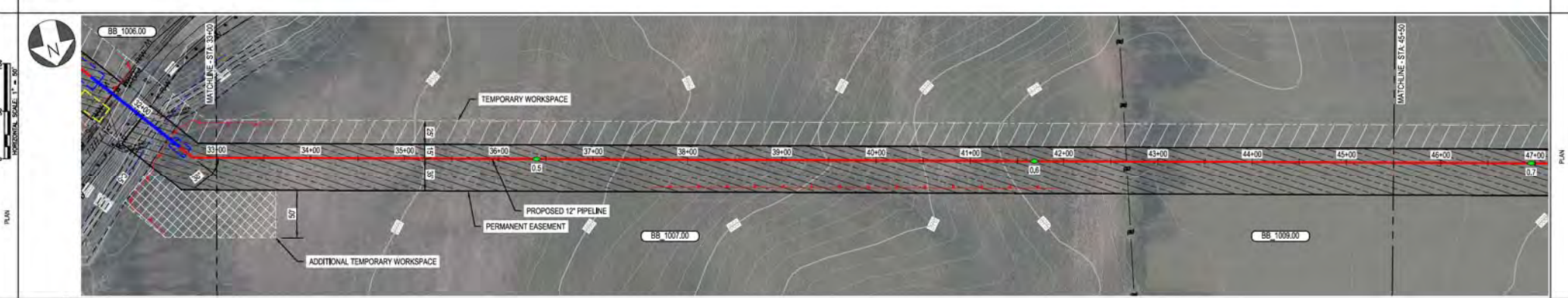
APPROVALS	
REGIONAL MANAGER/REC & STD	
MANR TECH REC & STD	
PRINCIPAL ENGINEER	

C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

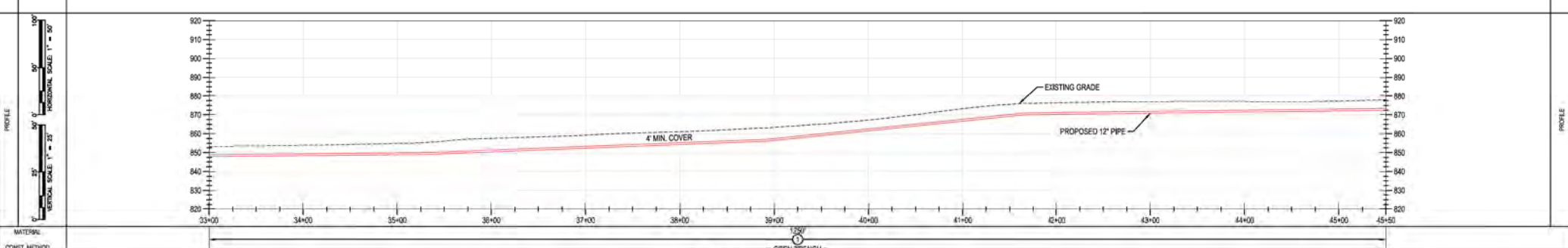
SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	10/06/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001002		
REVISION	C		

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1007.00 MARK A & LINDA DENISE STRIMPLE TATE TOWNSHIP	BB 1008.00 MARK A & LINDA DENISE STRIMPLE TATE TOWNSHIP

STATIONING		STATIONING
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PIPE DATA (SLOPE STATIONING)	STA. 33+00	WELD # 0000	WELD # 0000
	STA. 34+00	WELD # 0000	WELD # 0000
	STA. 35+00	WELD # 0000	WELD # 0000
	STA. 36+00	WELD # 0000	WELD # 0000



MATERIAL:	CLASS / MAOP
CONSTR. METHOD:	OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557

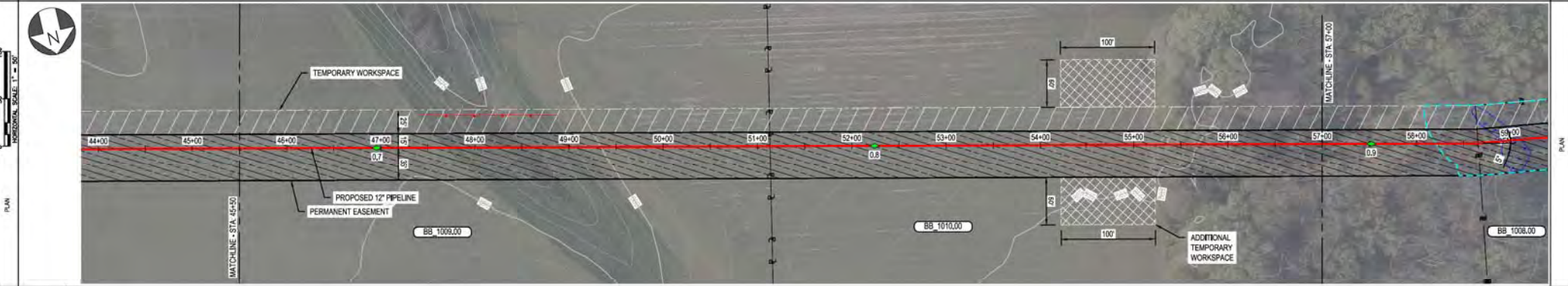
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISIONS / DESCRIPTION</th> <th>BY</th> <th>CHK</th> <th>APPR</th> <th>DESCRIPTION</th> <th>DATE</th> <th>INITIALS</th> <th>APPROVALS</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>AREA CODE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>ACCOUNT NUMBER</td> <td>AW1982</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>PROJECT NUMBER</td> <td>AW1982</td> <td></td> <td></td> </tr> <tr> <td colspan="3"></td> <td colspan="2">DRAWING BY</td> <td colspan="2">AKT</td> <td colspan="3"></td> </tr> <tr> <td colspan="3"></td> <td colspan="2">STATION ID</td> <td colspan="2"></td> <td colspan="3"></td> </tr> <tr> <td colspan="3"></td> <td colspan="2">CHECKER INITIALS</td> <td colspan="2">AMP</td> <td colspan="3"></td> </tr> </table>	REV.	DATE	REVISIONS / DESCRIPTION	BY	CHK	APPR	DESCRIPTION	DATE	INITIALS	APPROVALS	A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE				B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982			C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982						DRAWING BY		AKT								STATION ID										CHECKER INITIALS		AMP					<table border="1"> <tr> <td>REGIONAL ENGINEER</td> <td></td> </tr> <tr> <td>MGR. TECH. REC. & STD.</td> <td></td> </tr> <tr> <td>PRINCIPAL ENGINEER</td> <td></td> </tr> </table>	REGIONAL ENGINEER		MGR. TECH. REC. & STD.		PRINCIPAL ENGINEER		<p style="text-align: center;">DUKE ENERGY</p> <p style="text-align: center;">Piedmont Natural Gas</p> <p style="text-align: center;">KELLOGG, OH</p> <p style="text-align: center;">COPYRIGHT 2020</p>	<p style="text-align: center;">C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO</p> <p style="text-align: center;">KELLOGG, OH</p>	<table border="1"> <tr> <td>REF. DWG(S)</td> <td>SEE REFERENCE BAND.</td> </tr> <tr> <td>SHEET(S)</td> <td>1 OF X</td> </tr> <tr> <td>DWG SCALE</td> <td>AS NOTED</td> </tr> <tr> <td>DWG DATE</td> <td>10/06/2020</td> </tr> <tr> <td>SUPERSEDED</td> <td></td> </tr> <tr> <td>DRAWING NUMBER</td> <td>PNG -C-XXX-0001003</td> </tr> <tr> <td>REVISION</td> <td>C</td> </tr> </table>	REF. DWG(S)	SEE REFERENCE BAND.	SHEET(S)	1 OF X	DWG SCALE	AS NOTED	DWG DATE	10/06/2020	SUPERSEDED		DRAWING NUMBER	PNG -C-XXX-0001003	REVISION	C
REV.	DATE	REVISIONS / DESCRIPTION	BY	CHK	APPR	DESCRIPTION	DATE	INITIALS	APPROVALS																																																																																					
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE																																																																																								
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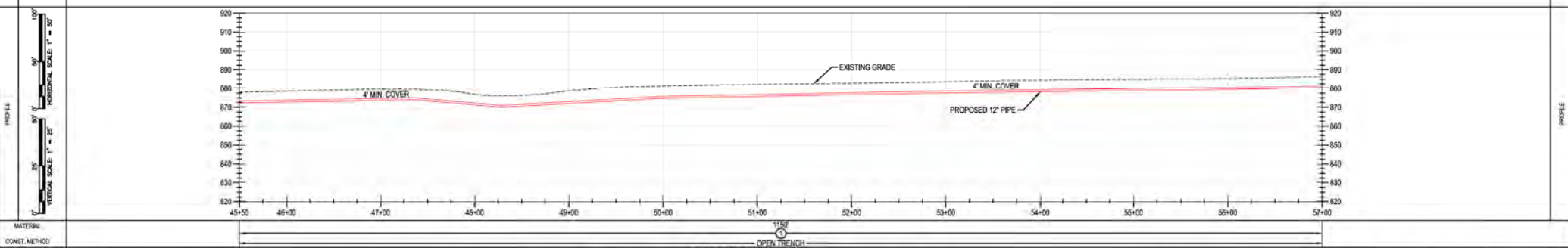
BENCH-MARK	OWNERSHIP	JURISDICTION	ACREAGE	EASEMENTS	REF. DWG. NO.	STATIONING	PLAN	PROFILE	PIPE DATA	PROF. DATA
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RIFIC-OF-WAY	OWNERSHIP	BB 1000.00	BB 1010.00
	JURISDICTION	MARK A & LINDA DENISE STRIMPLE TATE TOWNSHIP	RICHARD K & ANGELA R COMBS TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING		
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PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
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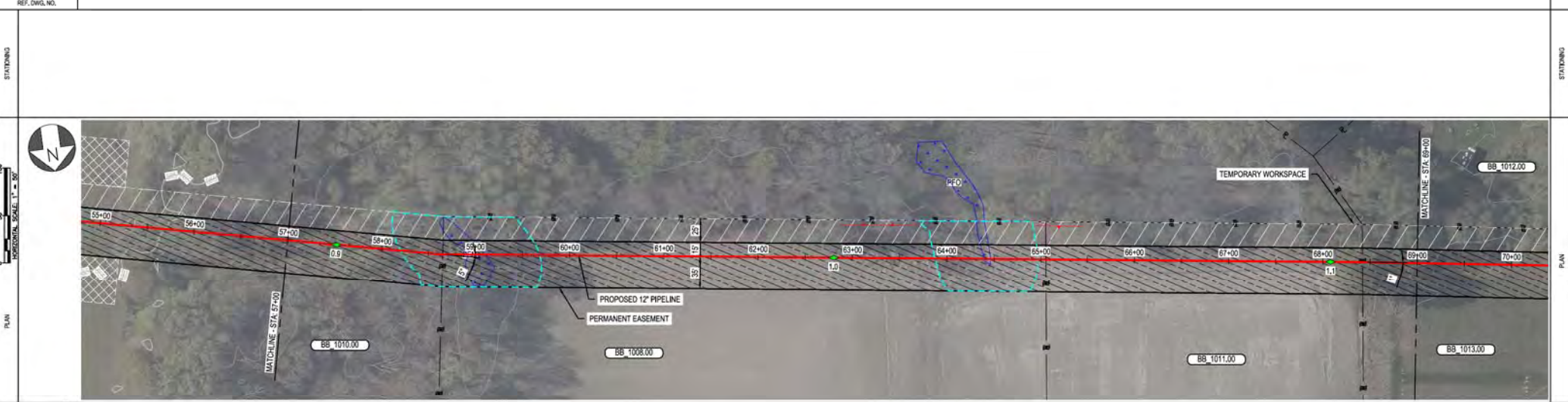


MATERIAL: _____
 CONST. METHOD: _____
 CLASS / MAOP: _____
 CLASS 4 / MAOP 5.35 PSIG

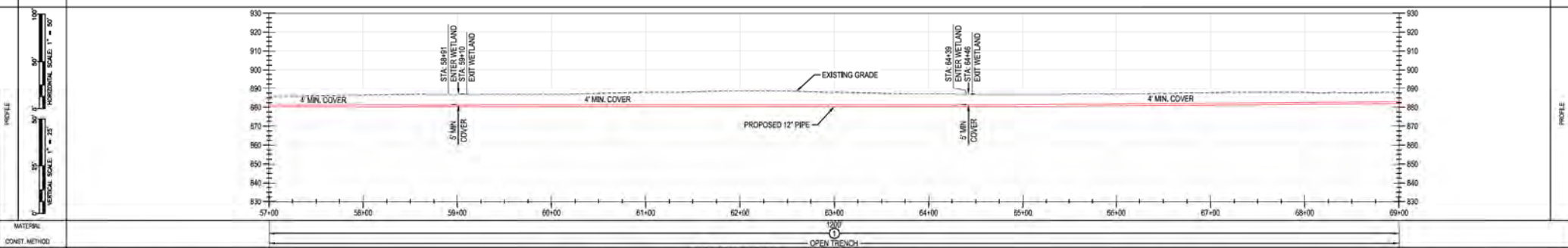
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557
 DUKÉ ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE* TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)
 *PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISIONS/DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OP&SB</td> </tr> </table>	REV.	DATE	REVISIONS/DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	B	12-18-2020	REVISED 30% DESIGN	C	02-19-2021	60% DESIGN FOR OP&SB	<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>APPROVALS</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	REV.	DATE	APPROVALS				<table border="1"> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>AREA CODE</td> <td>-</td> </tr> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>ACCOUNT NUMBER</td> <td>AW1982</td> </tr> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>PROJECT NUMBER</td> <td>AW1982</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DRAWING BY</td> <td>AKT</td> </tr> <tr> <td></td> <td></td> <td></td> <td>STATION ID</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>CHECKER INITIALS</td> <td>AMP</td> </tr> </table>	AKT	JMP	CNS	AREA CODE	-	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	AKT	JMP	CNS	PROJECT NUMBER	AW1982				DRAWING BY	AKT				STATION ID					CHECKER INITIALS	AMP	<table border="1"> <tr> <td>REGIONAL ENGINEER</td> <td></td> </tr> <tr> <td>MGR. TECH REC & STD</td> <td></td> </tr> <tr> <td>PRINCIPAL ENGINEER</td> <td></td> </tr> </table>	REGIONAL ENGINEER		MGR. TECH REC & STD		PRINCIPAL ENGINEER		<p>DUKE ENERGY Piedmont Natural Gas</p> <p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p> <p>COPYRIGHT 2009</p>	<table border="1"> <tr> <td>REF. DWG(S)</td> <td>SEE REFERENCE BAND</td> </tr> <tr> <td>SHEET(S)</td> <td>1 OF X</td> </tr> <tr> <td>DWG SCALE</td> <td>AS NOTED</td> </tr> <tr> <td>DWG DATE</td> <td>10/06/2020</td> </tr> <tr> <td>SUPERSEDED</td> <td></td> </tr> <tr> <td>DRAWING NUMBER</td> <td></td> </tr> <tr> <td>REVISION</td> <td></td> </tr> <tr> <td>PNG -C-XXX-0001004</td> <td>C</td> </tr> <tr> <td>CNSKLL0001004</td> <td></td> </tr> </table>	REF. DWG(S)	SEE REFERENCE BAND	SHEET(S)	1 OF X	DWG SCALE	AS NOTED	DWG DATE	10/06/2020	SUPERSEDED		DRAWING NUMBER		REVISION		PNG -C-XXX-0001004	C	CNSKLL0001004	
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CNSKLL0001004																																																																													

BENCH-MARK STATIONING	OWNERSHIP	BB 1010.00	BB 1008.00	BB 1011.00	BB 1013.00
	JURISDICTION	RICHARD K & ANGELA R COMBS TATE TOWNSHIP	JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP	JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP	SUSAN G & CHARLES W EDELBERGER TATE TOWNSHIP
	ACREAGE				
	EASEMENTS				
REF. DWG. NO.					



PIPE DATA (SLOPE STATIONING)	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #



MATERIAL: CLASS 4 / MADO 538 PSKG
CONVET. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION	DATE	INITIALS	APPROVALS
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B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1092		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

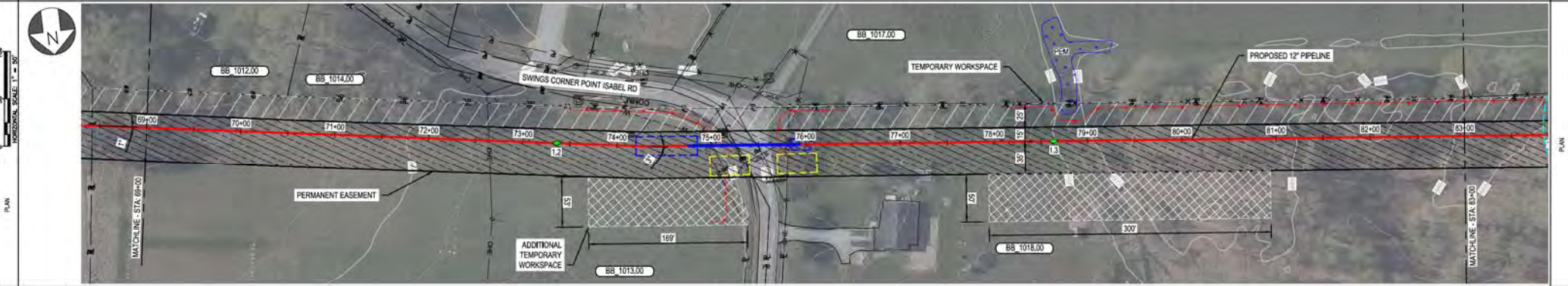
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DRAWING NUMBER PNG -C-XXX-0001005 REVISION C

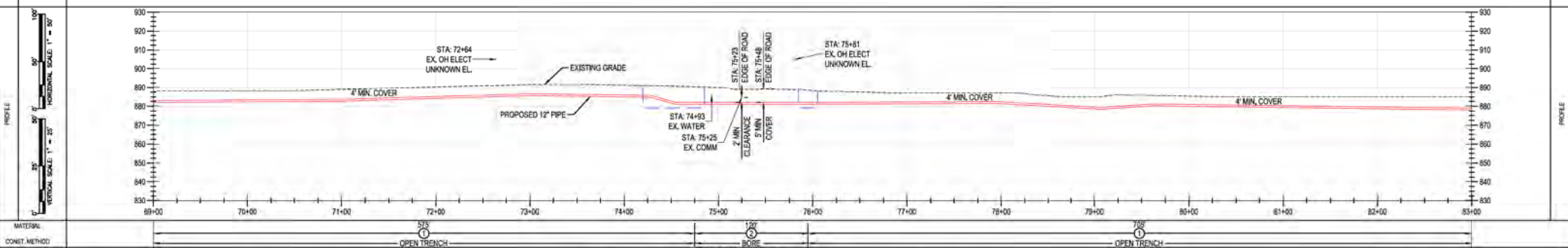
CNS/KELLOGG/C367

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1013.00	BB 1018.00
	SUSAN G & CHARLES W EDELBERGER TATE TOWNSHIP	ANGELA M COONEY TATE TOWNSHIP

STATIONING		
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PIPE DATA (SLOPE STATIONING)	STA	WELL #	GRID
	STA	WELL #	GRID



MATERIAL	3/5	100	7/5
CONST. METHOD	OPEN TRENCH	BORE	OPEN TRENCH
CLASS / MAMP		CLASS 4 / MADP 5/5 PSIG	

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A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			REGIONAL MANAGER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

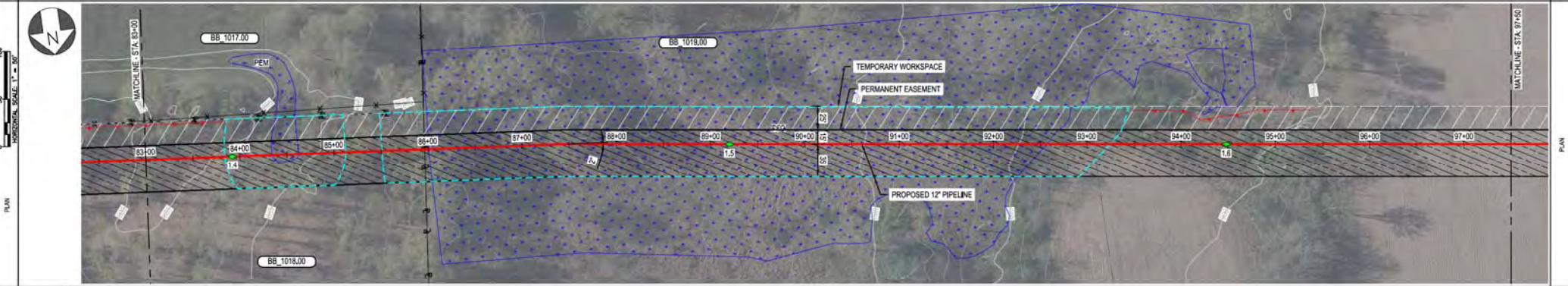
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DRAWING NUMBER PNG -C-XXX-0001006 REVISION C

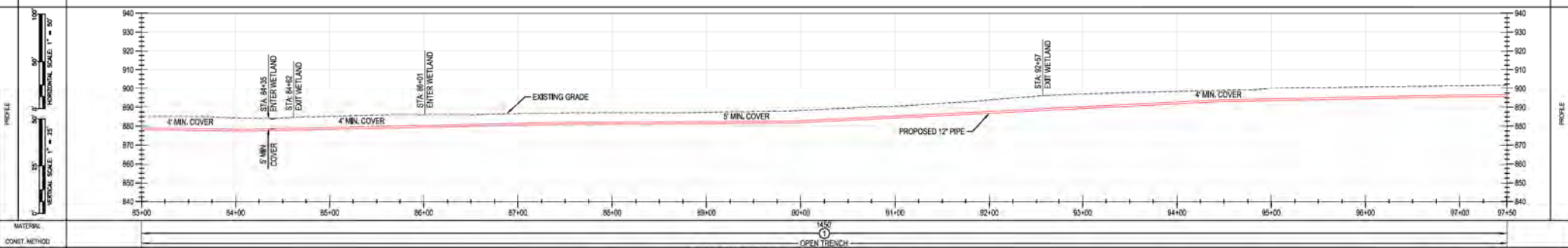
CNS/KELLOGG/C367

BENCH-MARK	OWNERSHIP	BB_1018.00	BB_1019.00
	JURISDICTION	ANGELA M COONEY TATE TOWNSHIP	JC TETON PROPERTIES LLC TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING		
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PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COAT	WELD #	COAT
	STA.	WELD #	COAT	WELD #	COAT



MATERIAL	CLASS / MAOP
CONVET. METHOD	CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01567

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REF. DWG(S) SEE REFERENCE BAND.

REV.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
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B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

APPROVALS

REGIONAL MANAGER	DATE	INITIALS
MGR TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

DUKE ENERGY | Piedmont Natural Gas

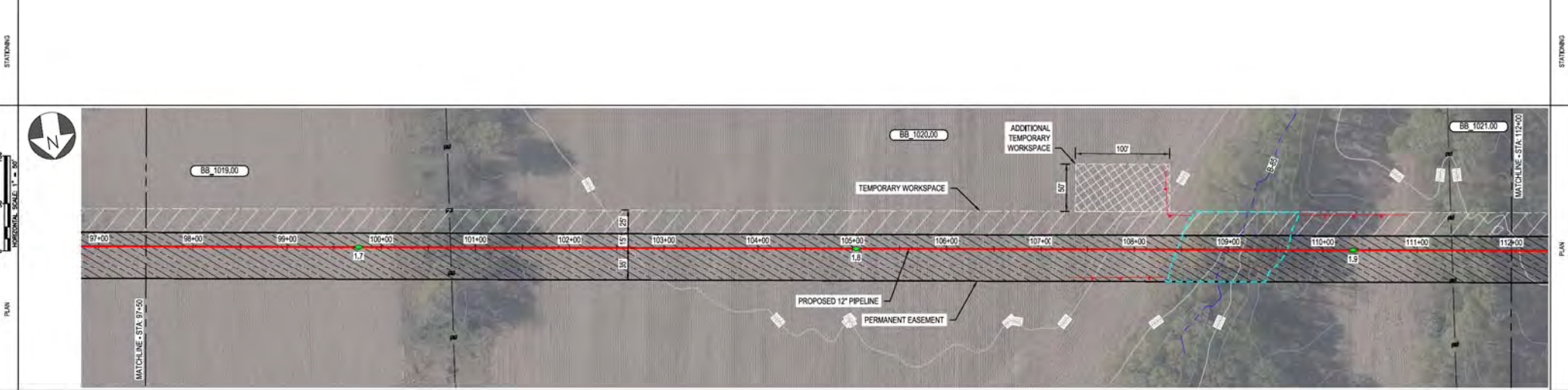
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

COPYRIGHT 2020

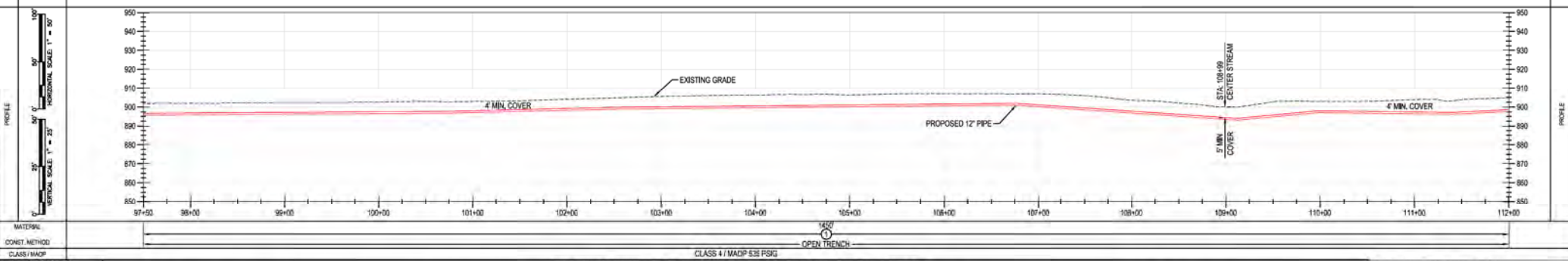
SHEET(S) 1 OF X | DWG SCALE AS NOTED | DWG DATE 10/06/2020 | SUPERSEDED | DRAWING NUMBER PNG -C-XXX-0001007 | REVISION C

PROFESSIONAL ENGINEER STAMP	
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RIGID/ROADWAY	OWNERSHIP	BB 1015.00	BB 1020.00	BB 1021.00
	JURISDICTION	JC TETON PROPERTIES LLC	JC TETON PROPERTIES	TED J & CHRISTINE K SHERMAN
	ACREAGE	TATE TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP
	EASEMENTS			
REF. DWG. NO.				



PIPE DATA (DUPLICATE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	STA.	WELD #
	STA.	WELD #	COND.	STA.	WELD #
	STA.	WELD #	COND.	STA.	WELD #



MATERIAL: CLASS 4 / MADP 538 PSIG
CONSTR. METHOD: OPEN TRENCH

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REF. DWG(S) SEE REFERENCE BLD.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2020 SUPERSEDED

DRAWING NUMBER REVISION

PNG -C-XXX-0001008 C

CNSKELLOGG007

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # OCA, 01567

REV.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE		
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982	
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	

DUKE ENERGY

Piedmont Natural Gas

MGR TECH REC & STD

PRINCIPAL ENGINEER

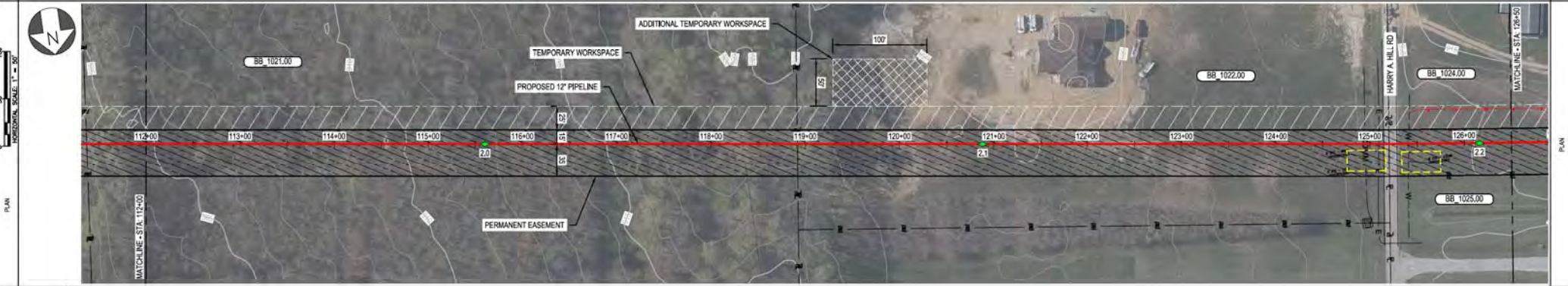
COPYRIGHT 2020

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**

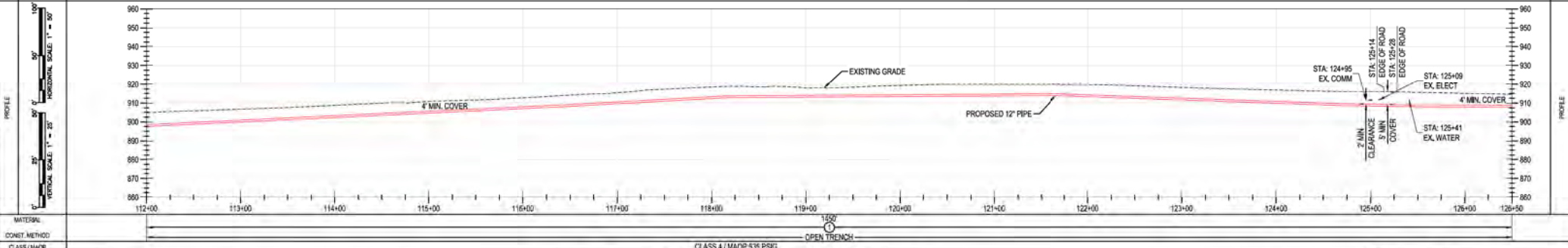
KELLOGG, OH

RIFIC-OF-WAY	OWNERSHIP	BB 1021.00	BB 1022.00	BB 1024.00
	JURISDICTION	TED J & CHRISTINE K SHERMAN TATE TOWNSHIP	LISA & DANIEL JASON HALL TATE TOWNSHIP	STEVEN R & MELODY SUE SIMS TATE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	126+50
	WELLS #																
	WELLS #																
	WELLS #																



MATERIAL:	CLASS / MAOP	CLASS 4 / MAOP 5.35 PSIG
CONSTR. METHOD:		OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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PROPRIETARY & CONFIDENTIAL. ALL RIGHTS RESERVED. DO NOT SCALE THIS DRAWING. USE DIMENSIONS ONLY.

REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL MANAGER: MGR TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

DRAWING NUMBER: PNG -C-XXX-0001009
REVISION: C

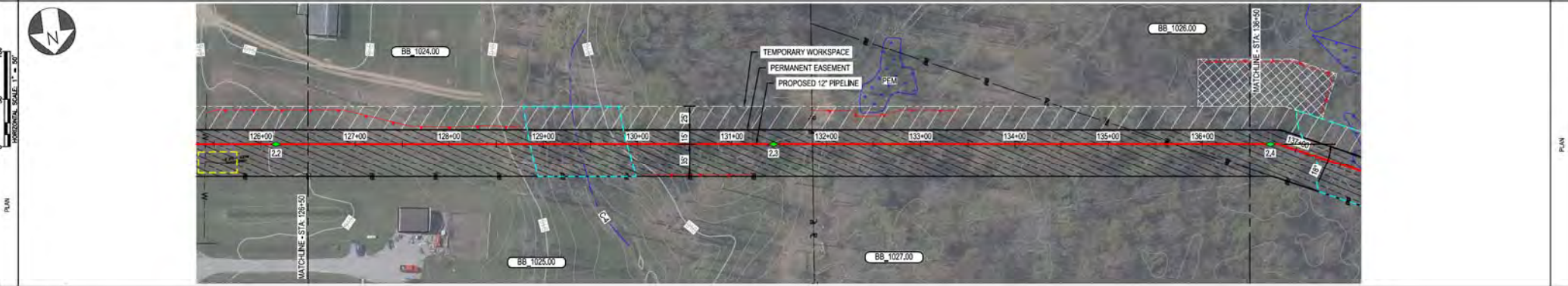
SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/06/2020 | SUPERSEDED
DRAWING NUMBER: PNG -C-XXX-0001009
REVISION: C

PROFESSIONAL ENGINEER STAMP

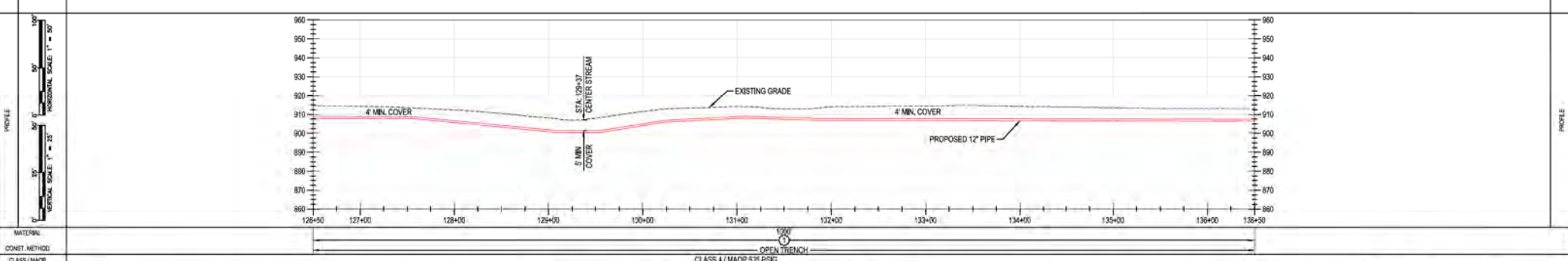
CNELLOGG/C367

REF. DWG. NO.	OWNERSHIP	BB 1024.00	BB 1027.00	BB 1026.00
	JURISDICTION	STEVEN R & MELODY SUE SIMS	JAMES W & KIMBERLY COMBS	MICHAEL BREZOWSKI TRUSTEE
	ACREAGE	TATE TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP
	EASEMENTS			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
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	127+00				
	128+00				

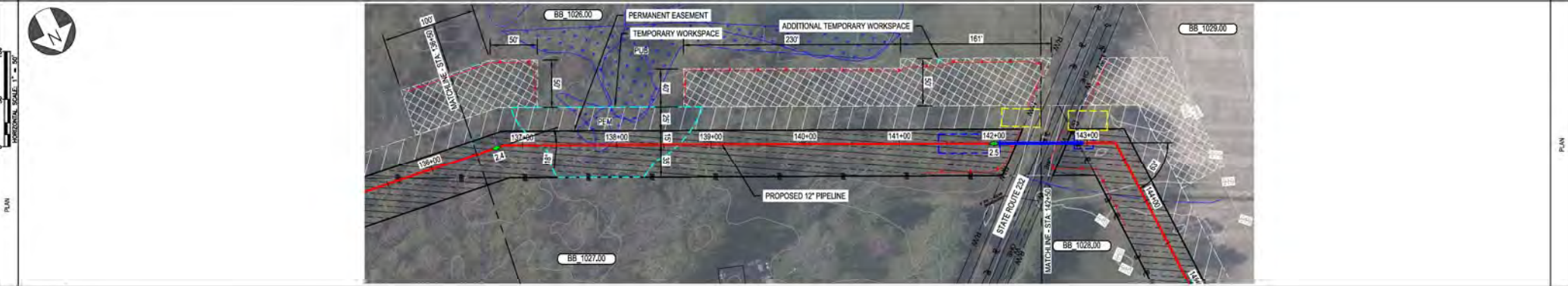


MATERIAL: OPEN TRENCH
CONVET. METHOD: CLASS 4 / MAOP 5.35 PSIG

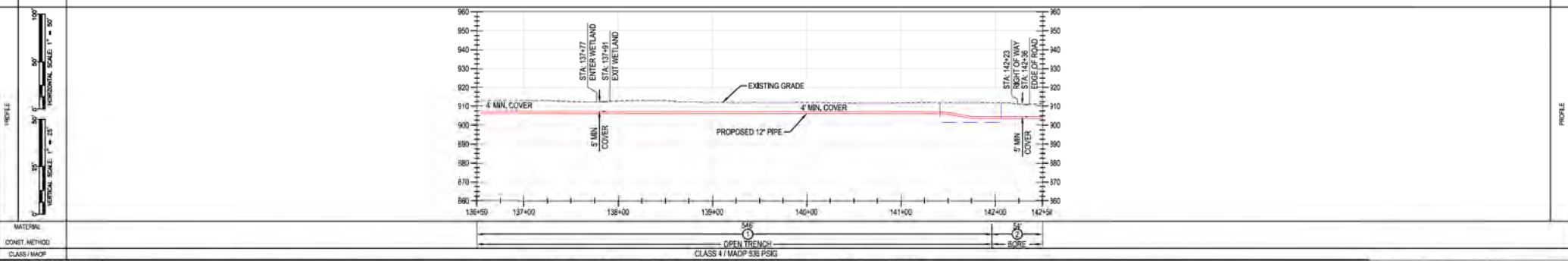
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557		*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)				REF. DWG(S) SEE REFERENCE BAND.	
REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	BY: AKT CHK: JMP DES: JNS DATE:	AREA CODE: AW10923 ACCOUNT NUMBER: AW1982 PROJECT NUMBER:	APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/06/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001010 REVISION C	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH		

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1026.00 MICHAEL BREZOWSKI TRUSTEE TATE TOWNSHIP	RW TATE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA. 136+00	STA. 137+00	STA. 138+00	STA. 139+00	STA. 140+00	STA. 141+00	STA. 142+00	STA. 143+00
	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%



MATERIAL: OPEN TRENCH CLASS 4 / MADP 535 PSKG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	AMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001011 REVISION C

CKEILLOGG/CW7

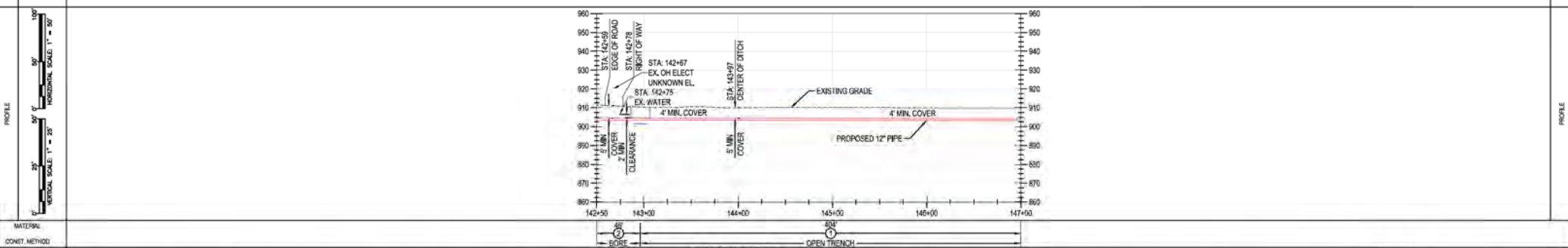
PROFESSIONAL ENGINEER STAMP

OWNERSHIP	RW	BB 1028.00	BB 1029.00	BB 1030.00
JURISDICTION	TATE TOWNSHIP	NICOLE L GASPER TATE TOWNSHIP	JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP	JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP
ACREAGE				
EASEMENTS				
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND



MATERIAL: CLASS 4 / MDDP 533 PSKG

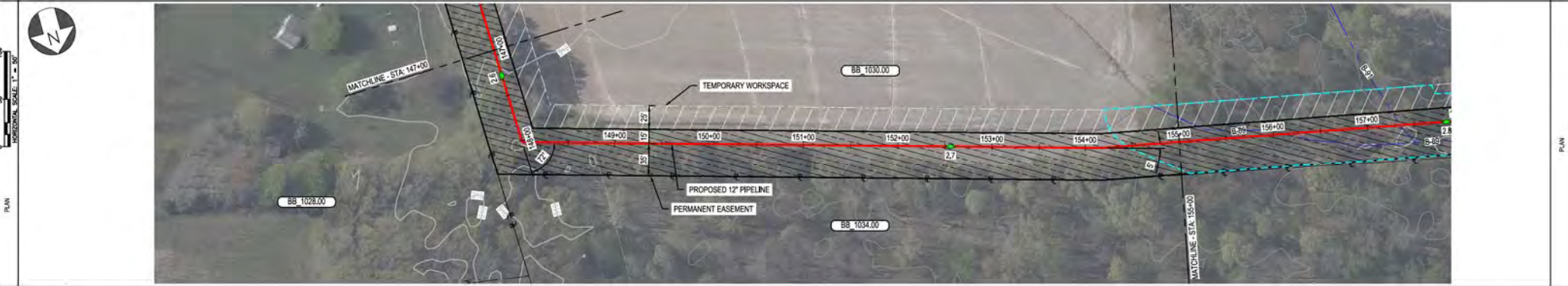
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557	REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020	REF. DWG(S) SEE REFERENCE BAND. SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/06/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001012 C REVISION C CKS/KLOGG/CW7
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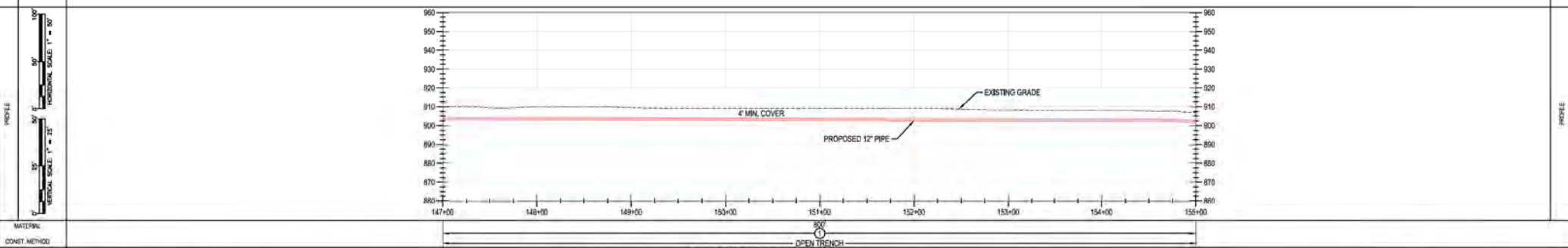
PROFESSIONAL ENGINEER STAMP DATE: _____ SIGNATURE: _____	CHECKER INITIALS: AMP
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REDCOF WAY	OWNERSHIP	BB 1030.00
	JURISDICTION	JEFFERY GLENN SINGLETON TRUSTEE
	ACREAGE	TATE TOWNSHIP
	EASEMENTS	
REF. DWG. NO.		

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
	STA.			STA.	



MATERIAL:	CLASS 4 / MAOP 5.35 PSIG
CONSTR. METHOD:	OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557

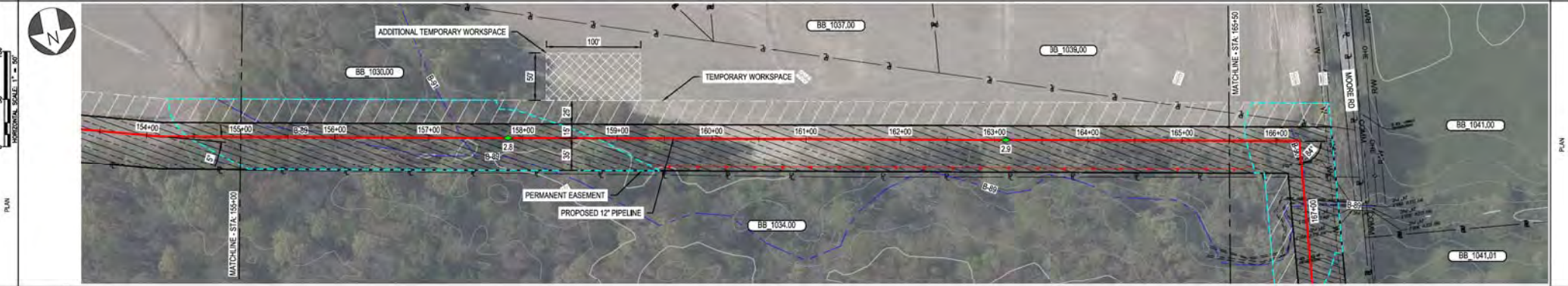
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISIONS/DESCRIPTION</th> <th>BY</th> <th>CHK</th> <th>APPV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>INITIALS</th> <th>APPROVALS</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>AREA CODE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>ACCOUNT NUMBER</td> <td>AW1982</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>PROJECT NUMBER</td> <td>AW1982</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DRAWING BY</td> <td>AKT</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>STATION ID</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CHECKER INITIALS</td> <td>AMP</td> <td></td> <td></td> </tr> </table>	REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS	A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE				B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982			C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982									DRAWING BY	AKT									STATION ID										CHECKER INITIALS	AMP			<table border="1"> <tr> <th>REGIONAL ENGINEER</th> <th>MGR. TECH. REC. & STD.</th> <th>PRINCIPAL ENGINEER</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	REGIONAL ENGINEER	MGR. TECH. REC. & STD.	PRINCIPAL ENGINEER				<p>DUKE ENERGY</p> <p>Piedmont Natural Gas</p> <p>COPYRIGHT 2021</p>	<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO</p> <p>KELLOGG, OH</p>	<table border="1"> <tr> <td>REF. DWG(S)</td> <td>SEE REFERENCE BAND.</td> </tr> <tr> <td>SHEET(S)</td> <td>1 OF X</td> </tr> <tr> <td>DWG SCALE</td> <td>AS NOTED</td> </tr> <tr> <td>DWG DATE</td> <td>10/06/2020</td> </tr> <tr> <td>SUPERSEDED</td> <td></td> </tr> <tr> <td>DRAWING NUMBER</td> <td>PNG -C-XXX-0001013</td> </tr> <tr> <td>REVISION</td> <td>C</td> </tr> </table>	REF. DWG(S)	SEE REFERENCE BAND.	SHEET(S)	1 OF X	DWG SCALE	AS NOTED	DWG DATE	10/06/2020	SUPERSEDED		DRAWING NUMBER	PNG -C-XXX-0001013	REVISION	C
REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS																																																																																					
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE																																																																																								
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982																																																																																							
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REVISION	C																																																																																													

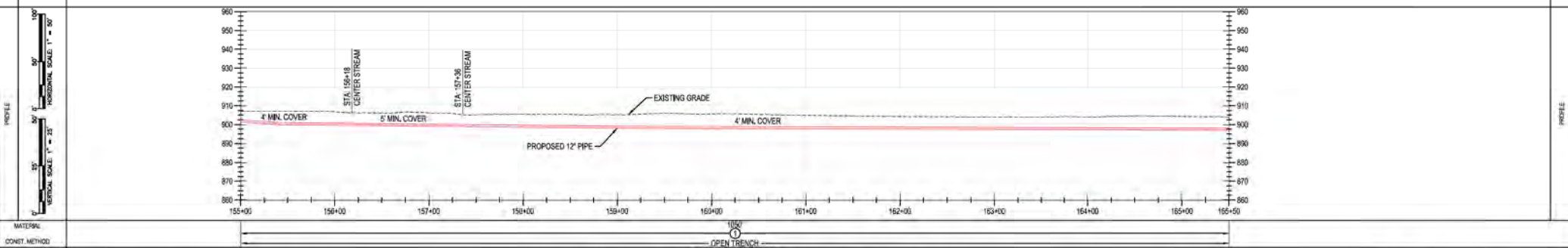
PROFESSIONAL ENGINEER STAMP

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1030.00
	JEFFERY GLENN SINGLETON TRUSTEE
	TATE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	STA.	WELL #



MATERIAL: OPEN TRENCH CLASS 4 / MADP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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<p>REV. DATE REVISIONS/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSS</p>	<p>BY CHK (APPV) DESCRIPTION</p> <p>AKT JMP CNS AREA CODE</p> <p>AKT JMP CNS ACCOUNT NUMBER AW1982</p> <p>AKT JMP CNS PROJECT NUMBER AW1982</p> <p>DRAWING BY AKT</p> <p>STATION ID</p> <p>CHECKER INITIALS AMP</p>	<p>APPROVALS</p> <p>REGIONAL MANAGER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>

C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001014 C

REVISION

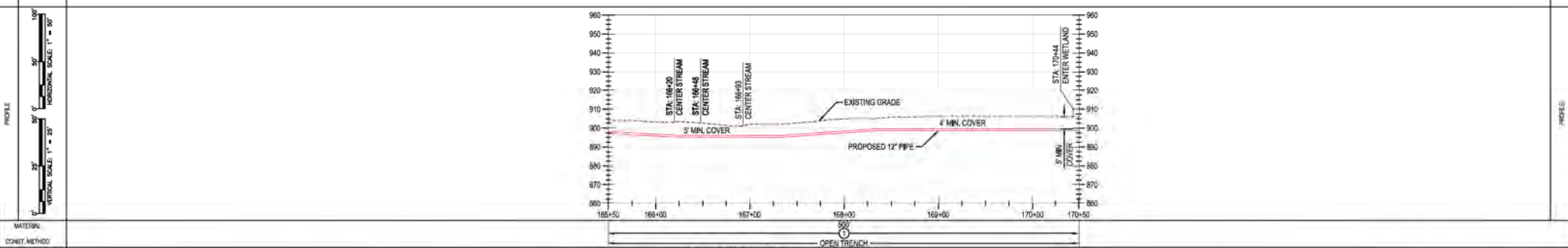
CNS/KELLOGG/C367

BENCH-MARK	OWNERSHIP	BB 1030.00	BB 1034.00
	JURISDICTION	JEFFERY GLENN SINGLETON TRUSTEE	THOMAS & RICHARD HOFFMAN
	ACREAGE	TATE TOWNSHIP	TATE TOWNSHIP
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	STA	WELL #



MATERIAL: CLASS / MAMP

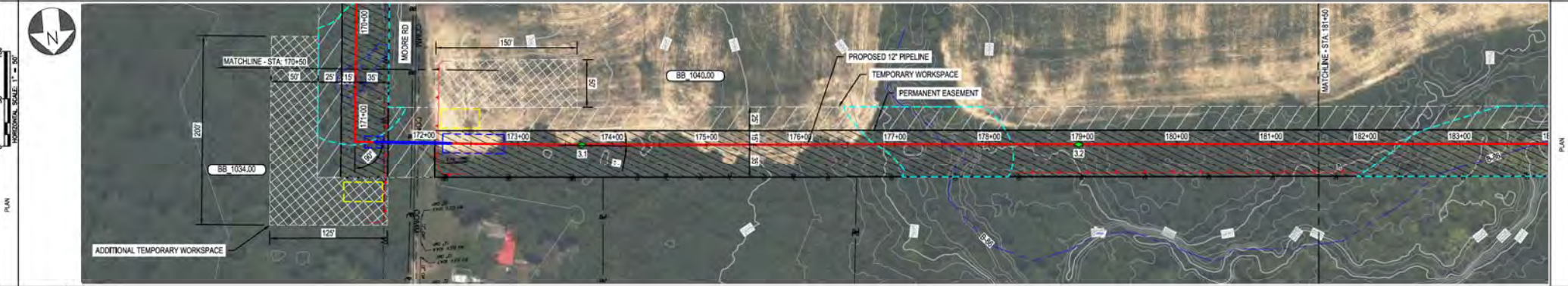
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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<p>REV. DATE REVISION/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSS</p>	<p>REV. DATE REVISION/DESCRIPTION</p> <p>AKT JMP CNS AREA CODE</p> <p>AKT JMP CNS ACCOUNT NUMBER AW1982</p> <p>AKT JMP CNS PROJECT NUMBER</p> <p>DRAWING BY AKT</p> <p>STATION ID</p> <p>CHECKER INITIALS AMP</p>	<p>APPROVALS</p> <p>REGIONAL ENGINEER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>	<p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE 10/06/2020 SUPERSEDED</p> <p>DRAWING NUMBER PNG -C-XXX-0001015 C</p> <p>REVISION</p> <p>CNELLOGG/C07</p>

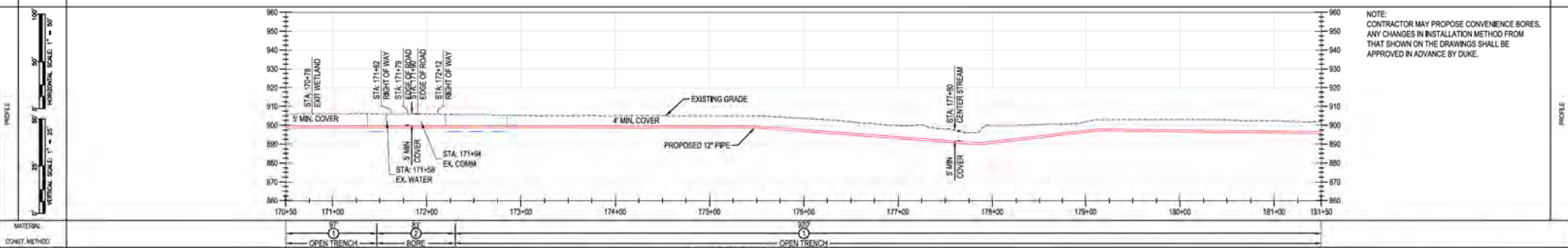
C367 PIPELINE ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

RIFIC-OF-WAY	OWNERSHIP	BB 1034.00	BB 1040.00
	JURISDICTION	THOMAS & RICHARD HOFFMAN TATE TOWNSHIP	JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	170+50	171+00	171+50	172+00	172+50	173+00	173+50	174+00	174+50	175+00	175+50	176+00	176+50	177+00	177+50	178+00	178+50	179+00	179+50	180+00	180+50	181+00	181+50	
	WELL #																								
	WELL #																								
	WELL #																								



NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.

MATERIAL: CLASS / METHOD

CLASS 4 / MADP 5.35 PSIG

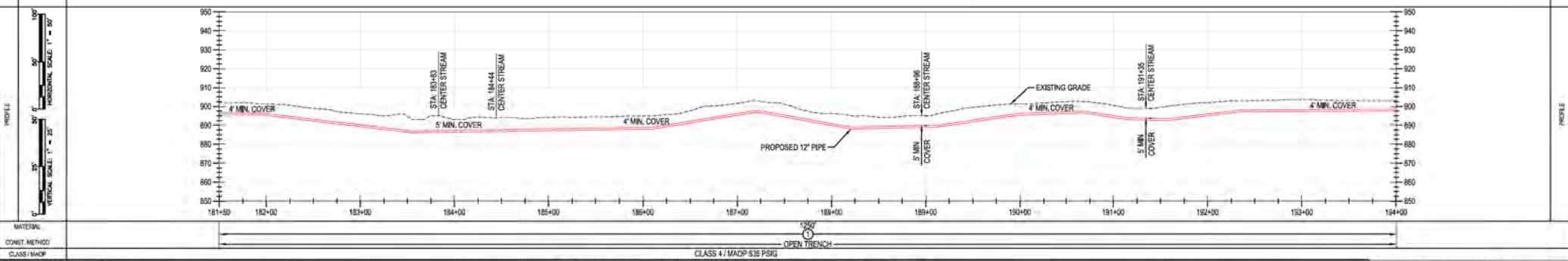
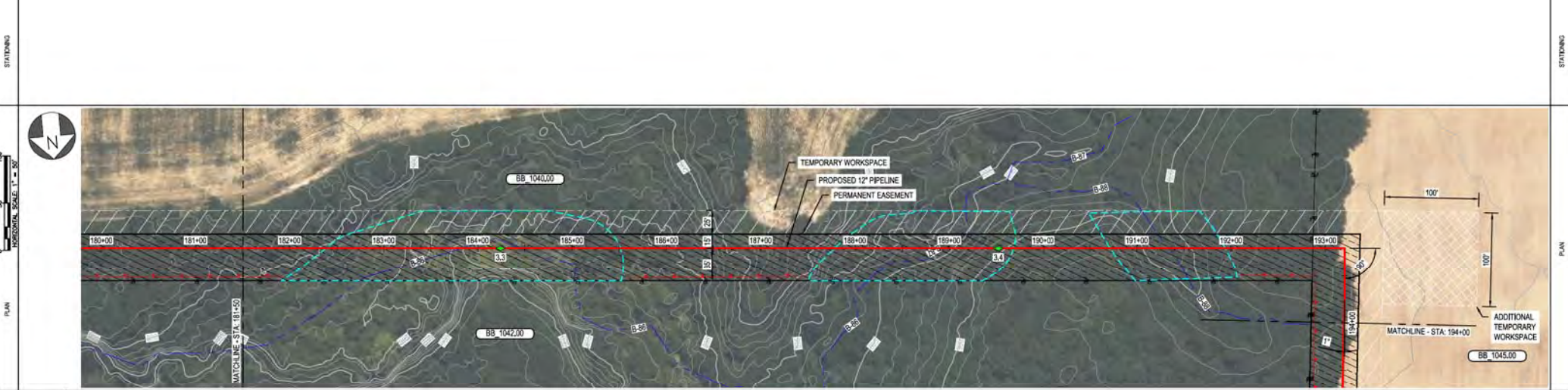
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557	REV.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL ENGINEER	MGR TECH REC & STD	DUKE ENERGY	Piedmont Natural Gas	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH	DRAWING NUMBER	REVISION	
	A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE											
	B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982										
	C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982										
				DRAWING BY		AKT		DATE		PRINCIPAL ENGINEER								
				STATION ID				DATE										
				CHECKER INITIALS		AMP												

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/06/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001016
REVISION	C
CNKL000G007	

PROFESSIONAL ENGINEER STAMP

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1040.00 JEFFERY GLENN SINGLETON TRUSTEE TATE TOWNSHIP	BB 1045.00 DONALD L. WOLF TATE TOWNSHIP



BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001017 REVISION C

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH

DUKE ENERGY Piedmont Natural Gas

REGIONAL FACILITATOR MGR TECH REC & STD PRINCIPAL ENGINEER

APPROVALS

DATE	INITIALS	APPROVALS

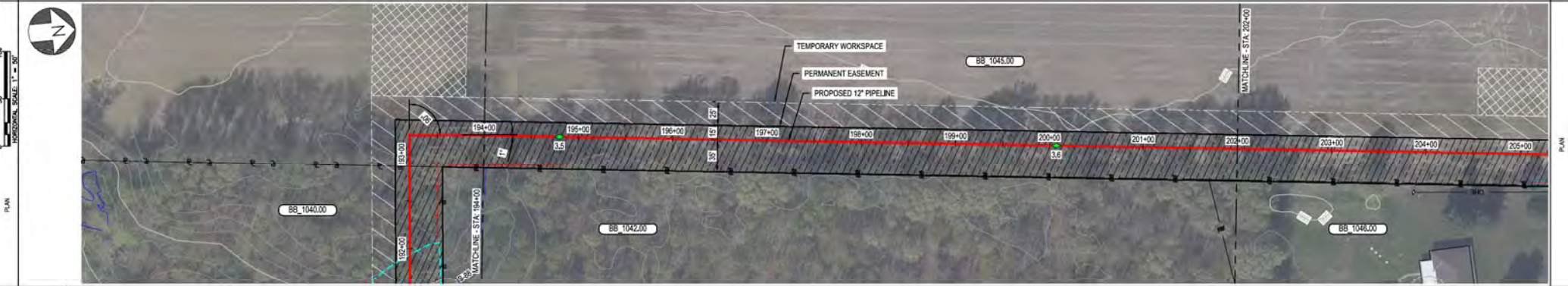
REVISIONS

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
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B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS: ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS: PROJECT NUMBER AW1982
					DRAWING BY AKT
					STATION ID
					CHECKER INITIALS AMP

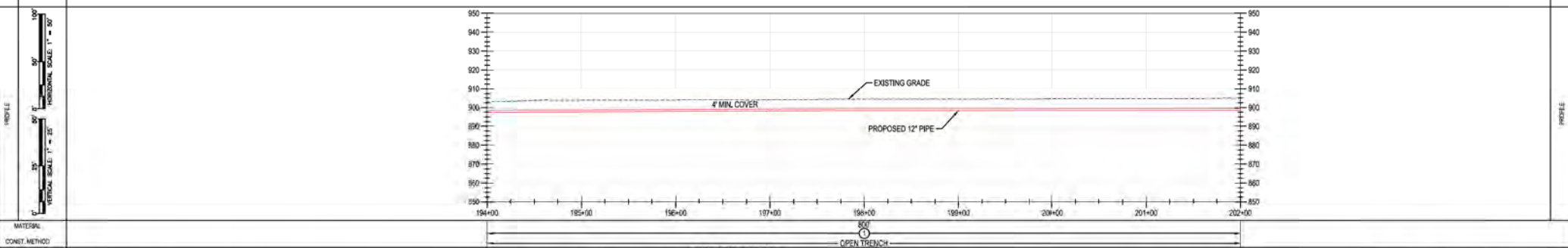
PROFESSIONAL ENGINEER STAMP

RIGHT-OF-WAY	OWNERSHIP	BB 1045.00
	JURISDICTION	DONALD L WOLF
	ACREAGE	TATE TOWNSHIP
	EASEMENTS	
REF. DWG. NO.		

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	STA.	WELL #



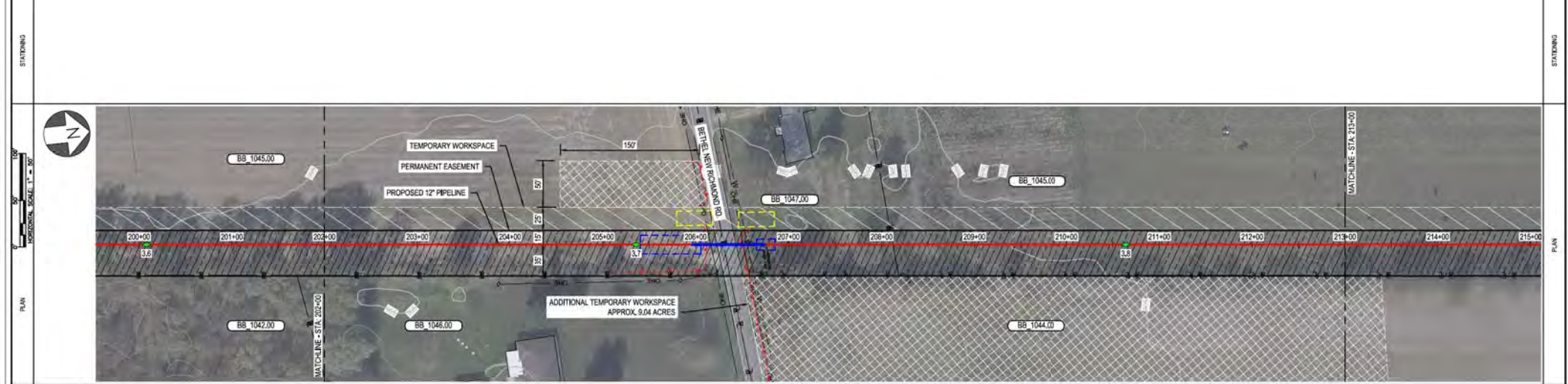
MATERIAL: CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

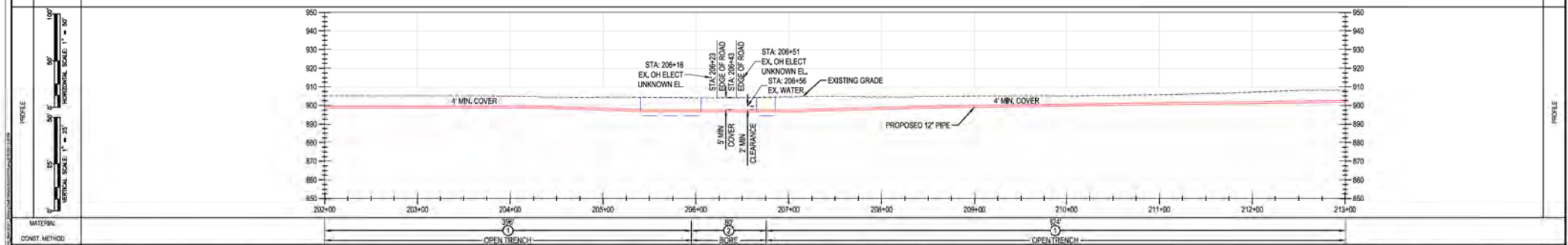
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C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

R/D/C/F/WAY	OWNERSHIP	BB 1045.00	BB 1047.00	BB 1045.00
	JURISDICTION	DONALD L WOLF	DONALD L & VIVIAN J WOLF	DONALD L WOLF
	ACREAGE	TATE TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP
	EASEMENTS			
REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #
	STA.	WELL #	COND.	STA.	WELL #
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL	OPEN TRENCH	PIPE	OPEN TRENCH
CONVEY. METHOD			
CLASS / MAP			

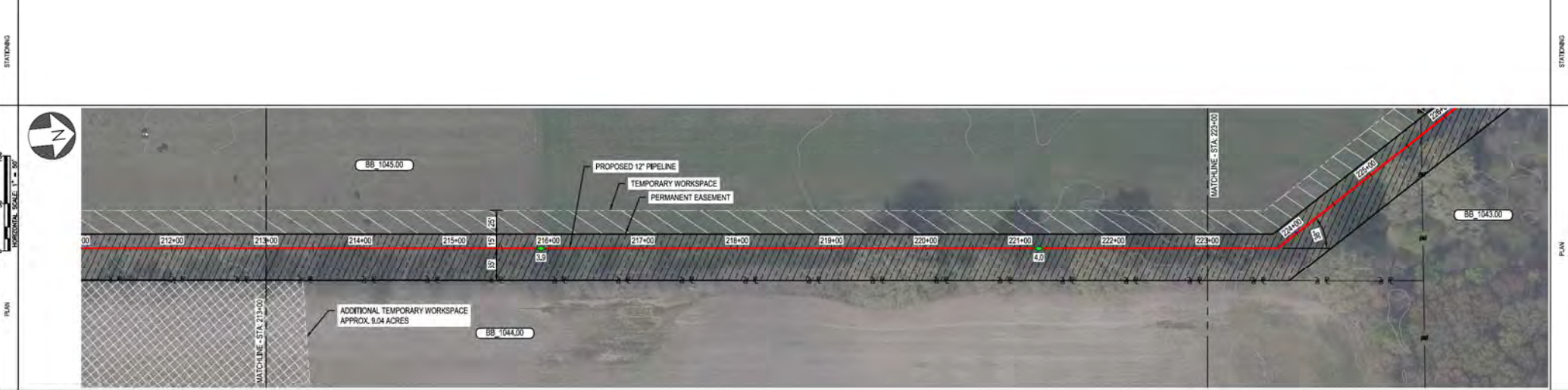
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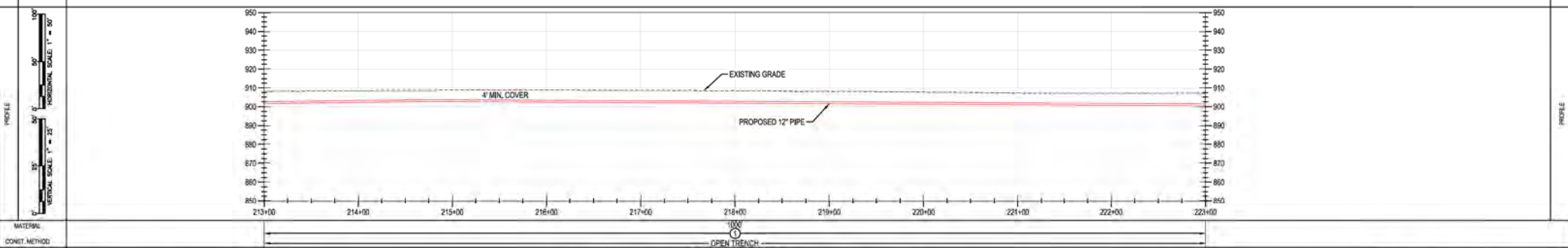
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557		REF. DWG(S) SEE REFERENCE BAND.	
DWG DATE: 11-06-2020 ISSUED FOR 30% REVIEW	DWG DATE: 12-18-2020 REVISED 30% DESIGN	SHEET(S) 1 OF X DWG SCALE AS NOTED	DWG DATE 10/06/2020 SUPERSEDED
DWG DATE: 02-19-2021 60% DESIGN FOR OPSB	PROJECT NUMBER: AW1982 DRAWING BY: AKT STATION ID: CHECKER INITIALS: AMP	REGIONAL ENGINEER: MGR TECH REC & STD: PRINCIPAL ENGINEER:	DRAWING NUMBER: PNG -C-XXX-0001019 C CWSKELLOGG007

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CLERMONT COUNTY, OHIO
 KELLOGG, OH
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OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1045.00
	DONALD L WOLF
	TATE TOWNSHIP



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.



MATERIAL: OPEN TRENCH
CONSTR. METHOD: CLASS 4 / MADP 538 PSKG

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NDL DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	REVISION(S) DESCRIPTION BY CHK (APPV) DESCRIPTION DATE INITIALS AKT JMP CNS AREA CODE AW1982 AKT JAMP CNS ACCOUNT NUMBER AW1982 AKT JAMP CNS PROJECT NUMBER AW1982 DRAWING BY AKT STATION ID CHECKER INITIALS AMP	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/06/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001020 REVISION C CNEKLOGG/C367

PROFESSIONAL ENGINEER'S STAMP

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO

KELLOGG, OH

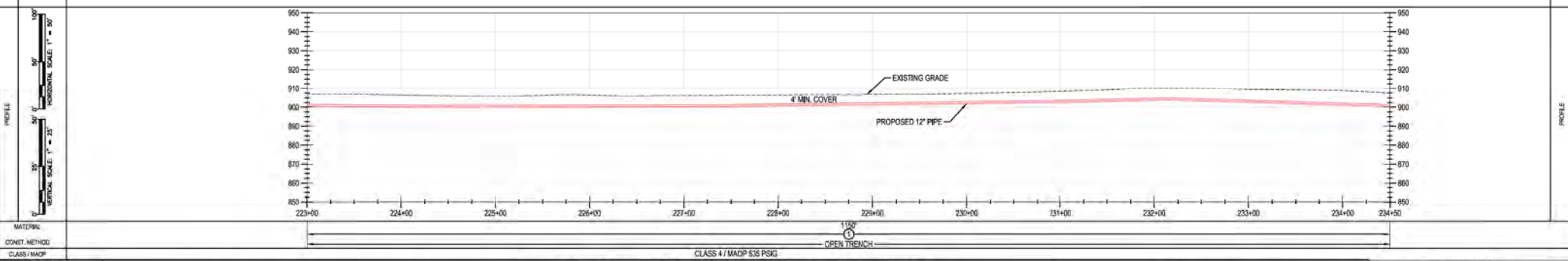
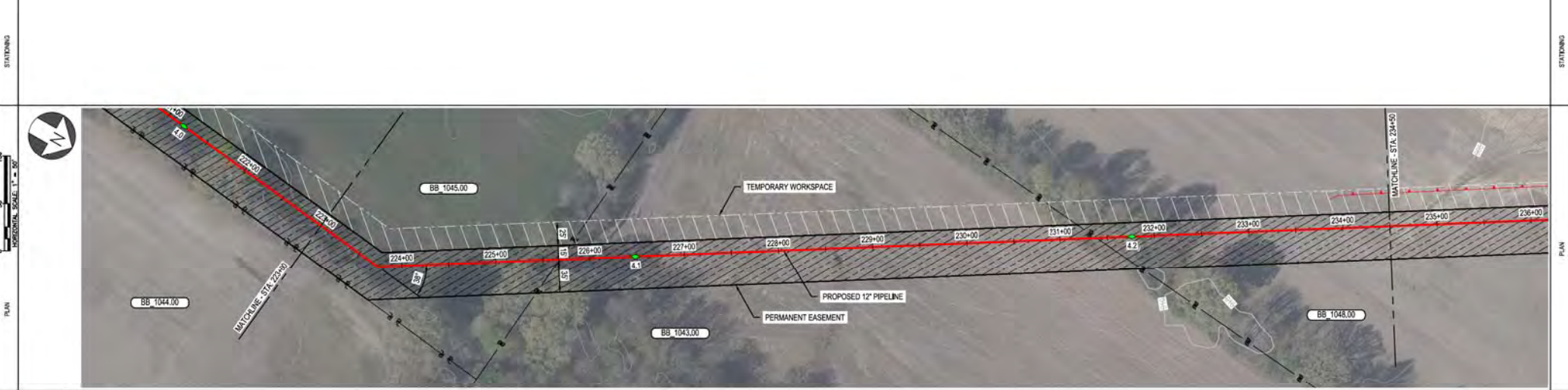
DUKE ENERGY | Piedmont Natural Gas

REGIONAL ENGINEER
MGR TECH REC & STD
PRINCIPAL ENGINEER

COPYRIGHT 2020

REF. DWG(S) SEE REFERENCE BAND.
 SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 10/06/2020 SUPERSEDED
 DRAWING NUMBER PNG -C-XXX-0001020 REVISION C
 CNEKLOGG/C367

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1045.00 DONALD L WOLF TATE TOWNSHIP	BB 1043.00 DONALD L WOLF TATE TOWNSHIP	BB 1048.00 CECILIA J KRUSLING TATE TOWNSHIP



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REV	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
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C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
						DRAWING BY	AKT		
						STATION ID			
						CHECKER INITIALS	AMP		

REGIONAL MANAGER: MGR TECH REC & STD

PRINCIPAL ENGINEER: KEKLOGG, OH

DUKE ENERGY | Piedmont Natural Gas

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C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

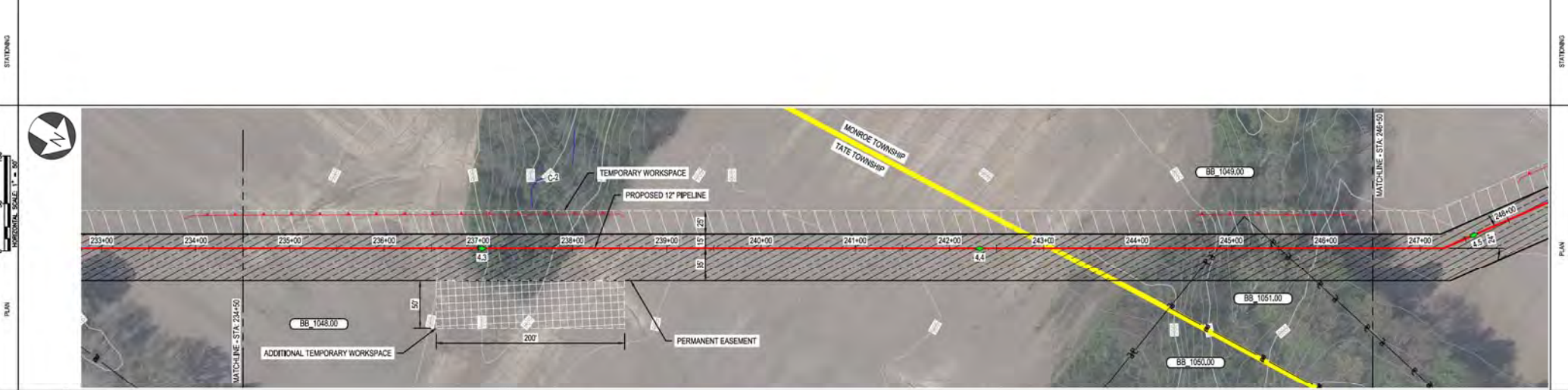
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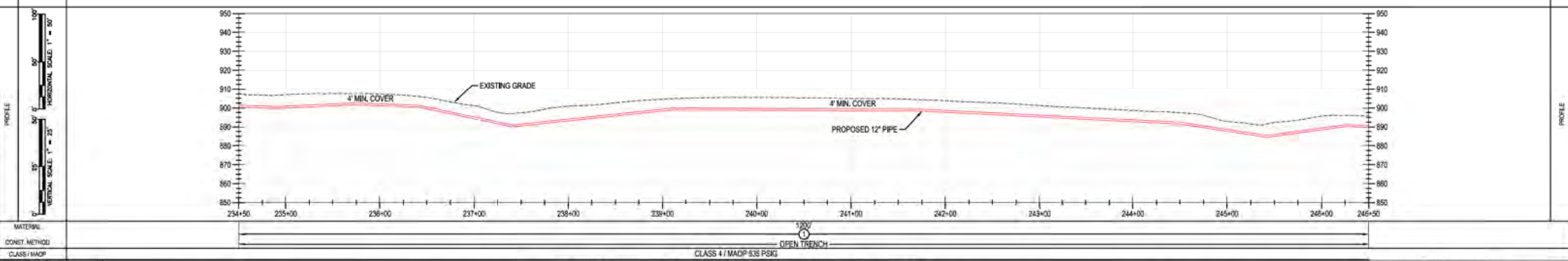
REVISION: C

CNS/KEKLOGG/C367

OWNER JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1048.00 CECLIA J KRUSLING TATE TOWNSHIP	BB 1049.00 CECLIA J KRUSLING MONROE TOWNSHIP	BB 1051.00 MABLE IRENE KITCHEN MONROE TOWNSHIP	BB 1049.00 CECLIA J KRUSLING MONROE TOWNSHIP



PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	STA.	WELD #



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		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

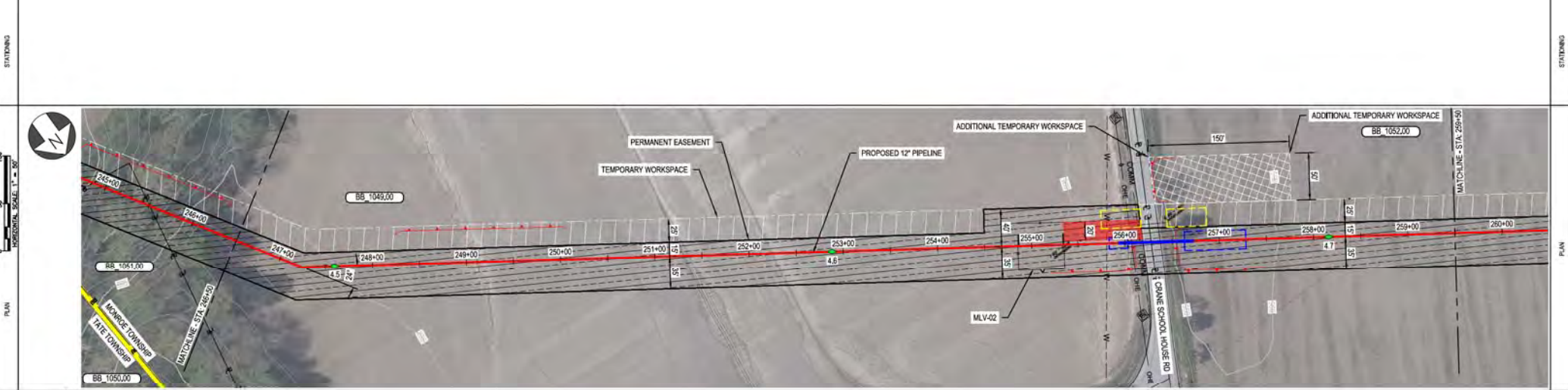
DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

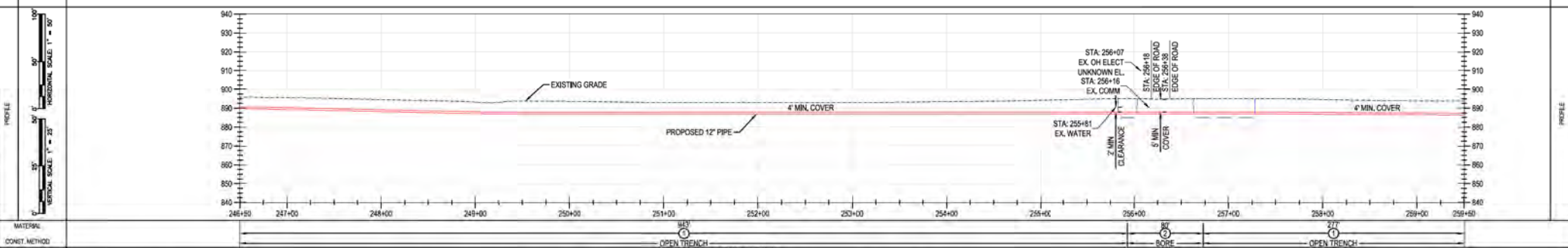
REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X | DWG SCALE AS NOTED |
DWG DATE 10/07/2020 | SUPERSEDED |
DRAWING NUMBER: PNG -C-XXX-0001022 | REVISION: C
CNS/KELLOGG/CNS

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1049.00 CECILIA KRUSLING MONROE TOWNSHIP	BB 1052.00 DAVID & PATTI STROUB TRUSTEES MONROE TOWNSHIP



PIPE DATA (DUPLICATE STATIONING) STA. WELLS # (DWD) STA. WELLS # (DWD)	STA. 246+50	WELLS # 0000	STA. 259+50	WELLS # 0000

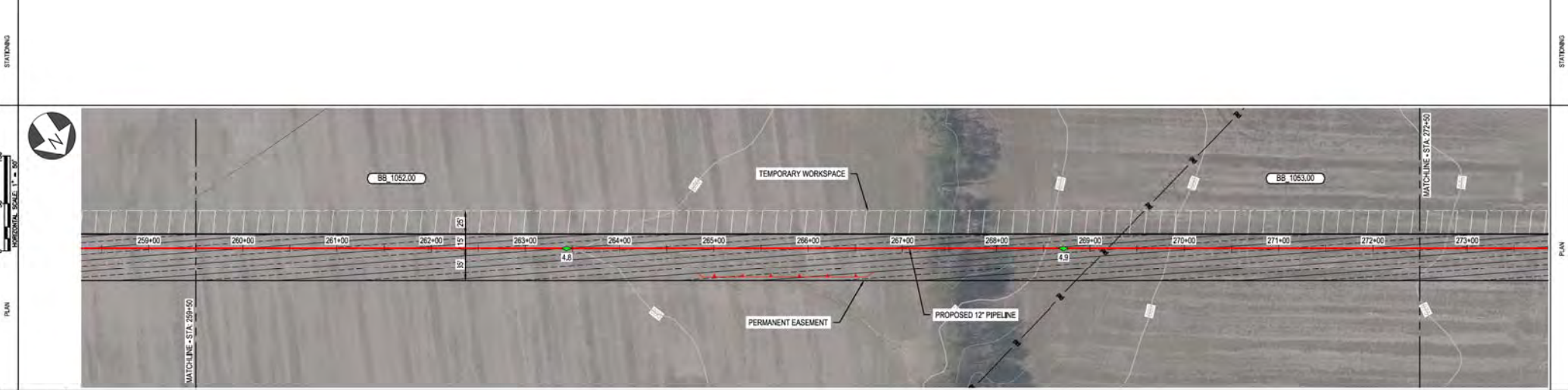


MATERIAL: CLASS 4 / MDDP 535 PSIG
CONSTR. METHOD: OPEN TRENCH
CLASS / MDDP 535 PSIG

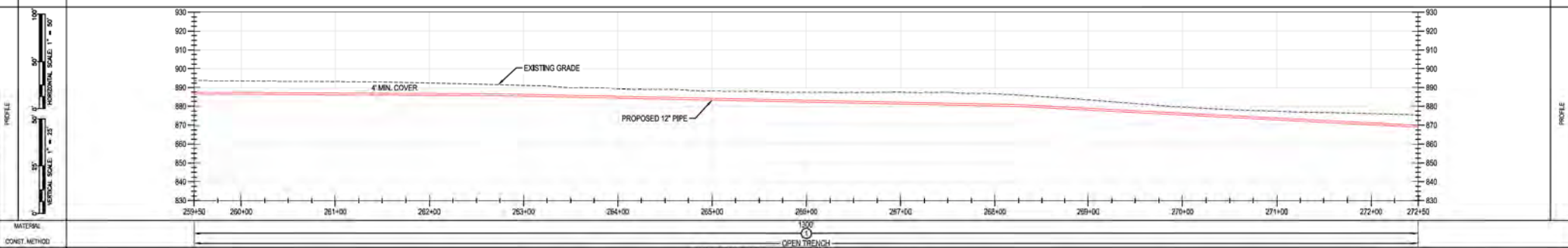
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MGR TECH REC & STD																																																																																									
PRINCIPAL ENGINEER																																																																																									
SHEET(S) 1 OF X	DWG SCALE AS NOTED																																																																																								
DWG DATE 10/07/2020	SUPERSEDED																																																																																								
DRAWING NUMBER	REVISION																																																																																								
PNG -C-XXX-0001023	C																																																																																								
CNSKELLOGG/C367																																																																																									

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1052.00	BB 1053.00
	DAVID & PATTI STROUB TRUSTEES MONROE TOWNSHIP	BOARD OF TRUSTEES OF MONROE TOWNSHIP MONROE TOWNSHIP



PIPE DATA (SLOPE STATIONING)	STA	WELD #	COND.	WELD #	COND.
	STA	WELD #	COND.	STA	WELD #



MATERIAL: CLASS 4 / MAOP 535 PSIG
CONV. METHOD: OPEN TRENCH

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 10/07/2020 SUPERSEDED
 DRAWING NUMBER PNG -C-XXX-0001024 REVISION C
 C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO
 KELLOGG, OH

REV.	DATE	REVISION/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSS

BY	CHK	APPR	DESCRIPTION	DATE	INITIALS
AKT	JMP	CNS	AREA CODE		
AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	
AKT	JMP	CNS	PROJECT NUMBER	AW1982	
			DRAWING BY	AKT	
			STATION ID		
			CHECKER INITIALS	AMP	

REGIONAL ENGINEER	MGR TECH REC & STD	PRINCIPAL ENGINEER

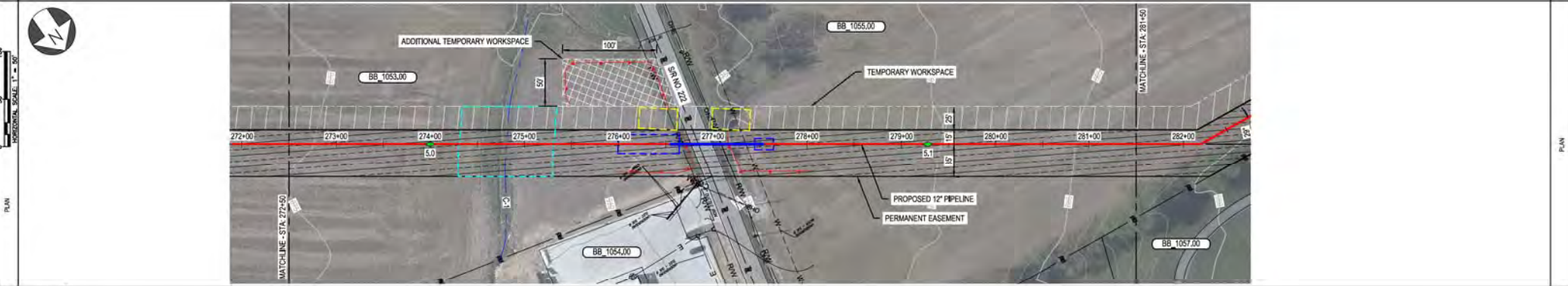


COPYRIGHT 2009

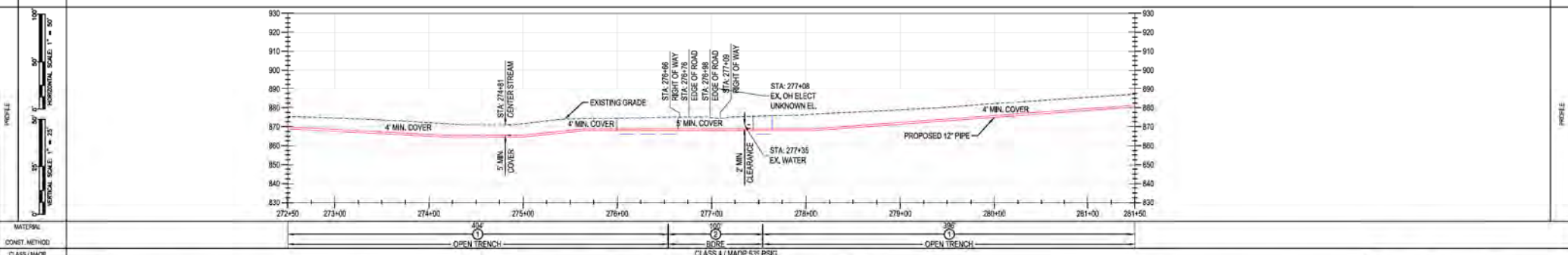
PROFESSIONAL ENGINEER STAMP

RIGHT-OF-WAY	OWNERSHIP	BB 1053.00	BB 1055.00
	JURISDICTION	BOARD OF TRUSTEES OF MONROE TOWNSHIP	STEPHEN M HENLE MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
------------	--



PIPE DATA (SLOPE STATIONING)	STA	WELLS #	COND	WELL #	COND
	STA	WELLS #	COND	WELL #	COND



MATERIAL	OPEN TRENCH	BORE	OPEN TRENCH
CONVEY. METHOD			
CLASS / MAOP	CLASS 4 / MAOP 5.35 PSIG		

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REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/07/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001025 REVISION C

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

DUKE ENERGY Piedmont Natural Gas

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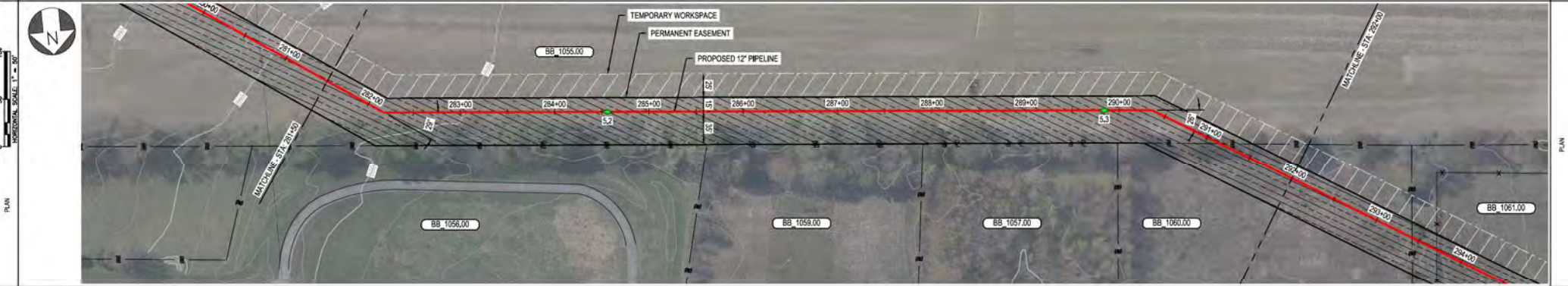
REV.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE		
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982	
C	02-19-2021	60% DESIGN FOR OPSS	AKT	AMP	CNS	PROJECT NUMBER	AW1982	
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

REGIONAL ENGINEER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

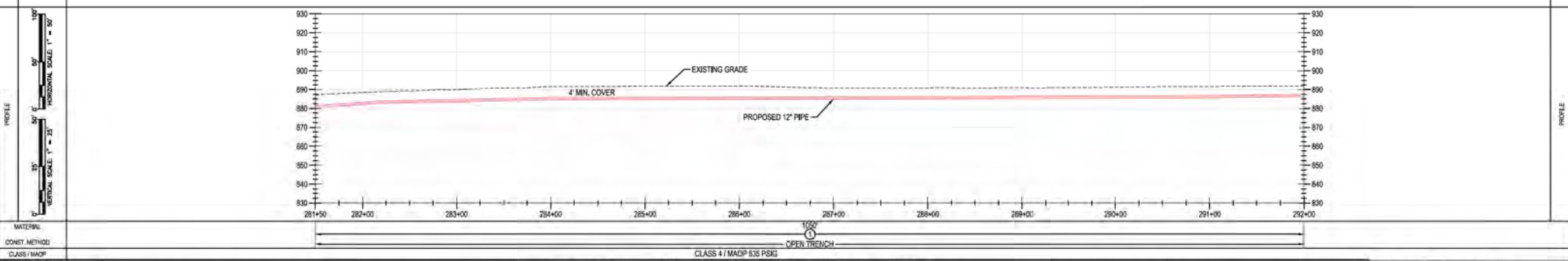
PROFESSIONAL ENGINEER STAMP	
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BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1055.00 STEPHEN M HEINLE MONROE TOWNSHIP	BB 1060.00 JOSHUA D GOULD MONROE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	STA	WELL #



MATERIAL: CLASS 4 / MAOP 535 PSIG
CONVET. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

REV.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY			AKT				
		STATION ID							
		CHECKER INITIALS			AMP				

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

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C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/07/2020 SUPERSEDED

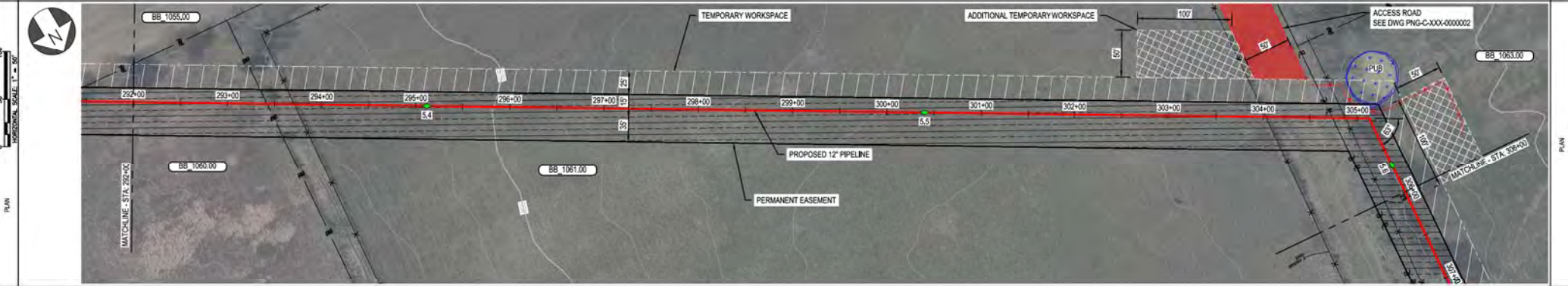
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REVISION: C

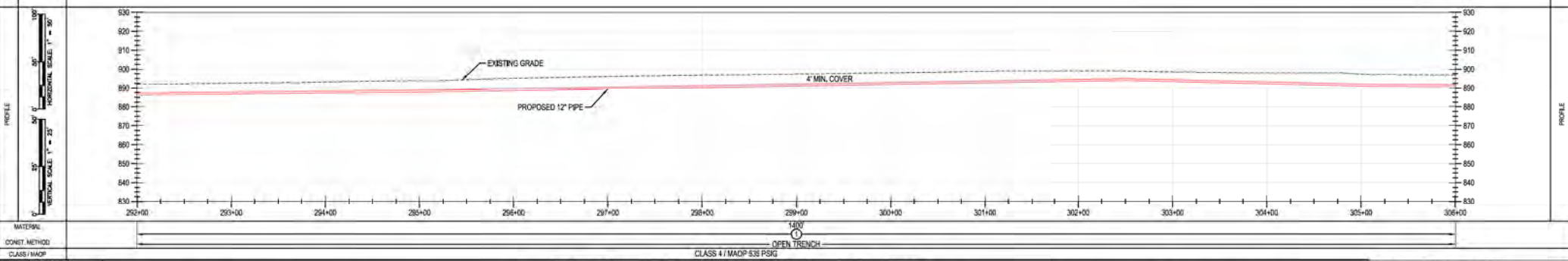
CNS/KELLOGG/C367

BENCH-MARK	OWNERSHIP	BB 1060.00	BB 1061.00	BB 1063.00
	JURISDICTION	JOSHUA D GOULD MONROE TOWNSHIP	RANDY REMMES MONROE TOWNSHIP	DAVID T & DANA YACCHARI JR MONROE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (DO NOT EDIT)	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	STA	WELLS #



MATERIAL: CLASS 4 / MAOP 538 PSIG
CONVET. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01567

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS: AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS: ACCOUNT NUMBER	AW1092		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS: PROJECT NUMBER	AW1982		
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

REGIONAL ENGINEER: MGR TECH REC & STD

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

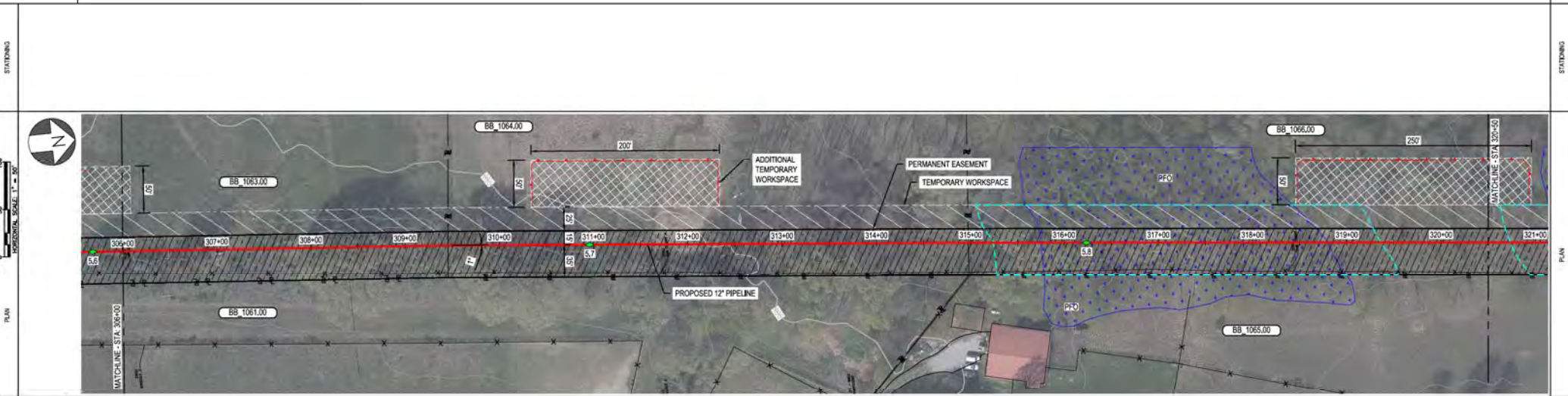
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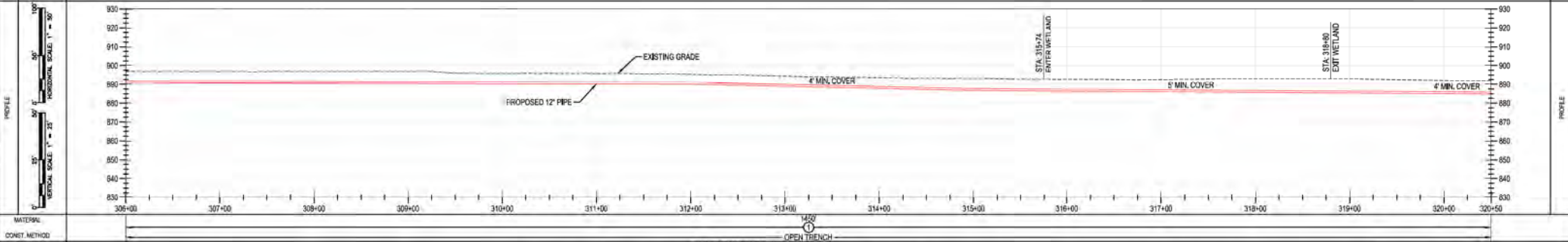
REVISION: C

PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1063.00	BB 1064.00	BB 1066.00
	JURISDICTION	DAVID T & DANA YACCHARI JR MONROE TOWNSHIP	FIFTH THIRD BANK TRUSTEE FBO CHELSEY TROXELL C/O HARDING & CARBONE INC MONROE TOWNSHIP	VINCENT W & BARBARA L SETSER MONROE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA	WELD #	COND.	DATE	WELD #	COND.	DATE
	STA	WELD #	COND.	DATE	STA	WELD #	COND.
	STA	WELD #	COND.	DATE	STA	WELD #	COND.
	STA	WELD #	COND.	DATE	STA	WELD #	COND.



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REF. DWG(S) SEE REFERENCE BAND.

REV.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPR	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

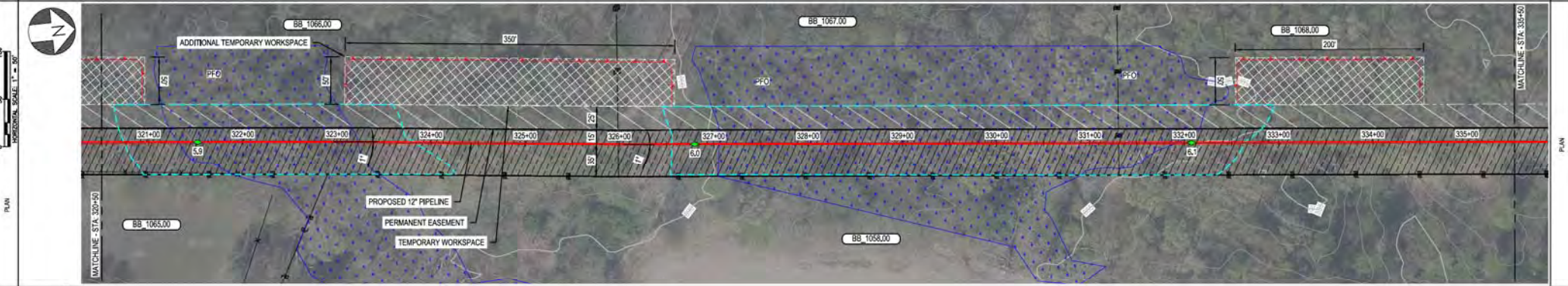
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

COPYRIGHT 2021

SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/07/2020 | SUPERSEDED
DRAWING NUMBER: PNG -C-XXX-0001028 | REVISION: C
CNS100000000

REF. DWG. NO.	OWNERSHIP	BB 1065.00	BB 1067.00	BB 1068.00
	JURISDICTION	VINCENT W & BARBARA L SETSER MONROE TOWNSHIP	CLIFFORD S & CORNELIA D JOHNSON MONROE TOWNSHIP	JAMES V HUNTINGTON & LORI A RYAN HUNTINGTON MONROE TOWNSHIP
	ACREAGE			
	EASEMENTS			

STATIONING



MATERIAL	3600
CONV. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 535 PSIG

BURNS & MCDONWELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557

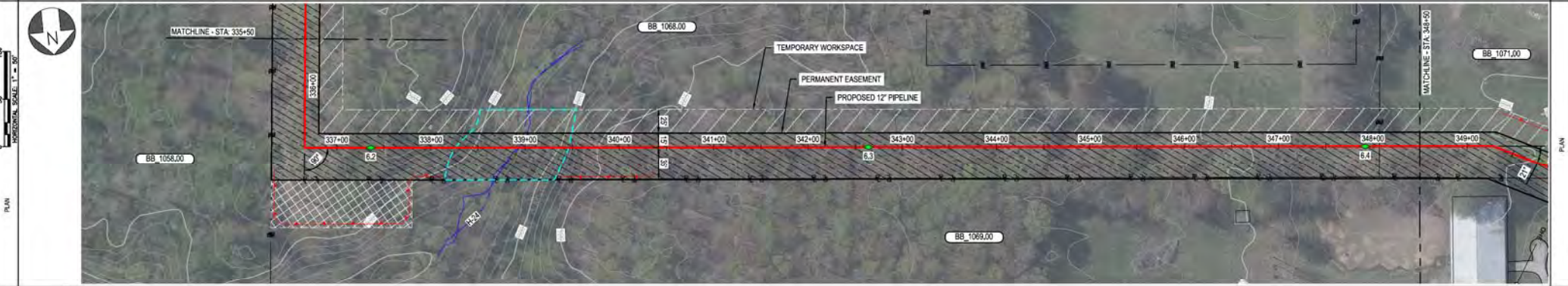
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

REF. DWG(S) SEE REFERENCE BAND.

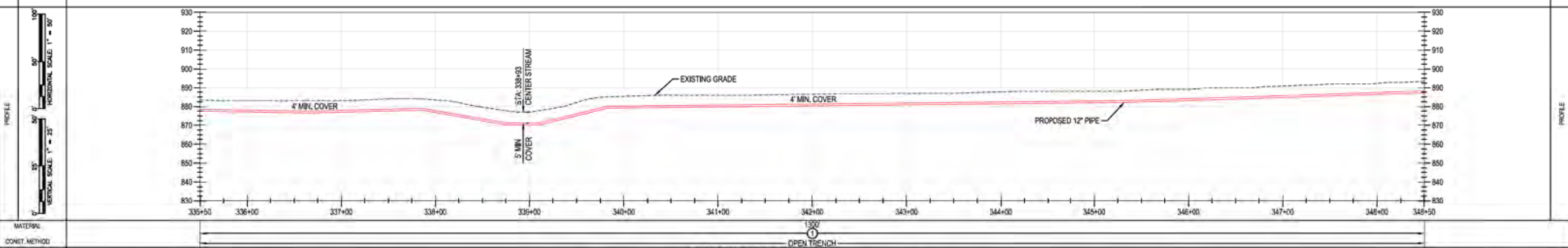
<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISIONS/DESCRIPTION</th> <th>BY</th> <th>CHK</th> <th>APPV</th> <th>DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>AREA CODE</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>AKT</td> <td>AMP</td> <td>CNS</td> <td>ACCOUNT NUMBER AW1982</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>AKT</td> <td>AMP</td> <td>CNS</td> <td>PROJECT NUMBER AW1982</td> </tr> <tr> <td colspan="3">DRAWING BY</td> <td colspan="4">AKT</td> </tr> <tr> <td colspan="3">STATION ID</td> <td colspan="4"></td> </tr> <tr> <td colspan="3">CHECKER INITIALS</td> <td colspan="4">AMP</td> </tr> </table>	REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER AW1982	C	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	PROJECT NUMBER AW1982	DRAWING BY			AKT				STATION ID							CHECKER INITIALS			AMP				<table border="1"> <tr> <th colspan="2">APPROVALS</th> </tr> <tr> <td>REGIONAL ENGINEER</td> <td></td> </tr> <tr> <td>MGR TECH REC & STD</td> <td></td> </tr> <tr> <td>PRINCIPAL ENGINEER</td> <td></td> </tr> </table>	APPROVALS		REGIONAL ENGINEER		MGR TECH REC & STD		PRINCIPAL ENGINEER		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p> <p>DUKE ENERGY Piedmont Natural Gas</p> <p>COPYRIGHT 2020</p>	<table border="1"> <tr> <td>SHEET(S)</td> <td>1 OF X</td> <td>DWG SCALE</td> <td>AS NOTED</td> </tr> <tr> <td>DWG DATE</td> <td>10/07/2020</td> <td>SUPERSEDED</td> <td></td> </tr> <tr> <td colspan="2">DRAWING NUMBER</td> <td colspan="2">REVISION</td> </tr> <tr> <td colspan="2">PNG -C-XXX-0001029</td> <td colspan="2">C</td> </tr> <tr> <td colspan="4">CNS/KELLOGG/C367</td> </tr> </table>	SHEET(S)	1 OF X	DWG SCALE	AS NOTED	DWG DATE	10/07/2020	SUPERSEDED		DRAWING NUMBER		REVISION		PNG -C-XXX-0001029		C		CNS/KELLOGG/C367			
REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION																																																																										
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE																																																																										
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER AW1982																																																																										
C	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	PROJECT NUMBER AW1982																																																																										
DRAWING BY			AKT																																																																													
STATION ID																																																																																
CHECKER INITIALS			AMP																																																																													
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PRINCIPAL ENGINEER																																																																																
SHEET(S)	1 OF X	DWG SCALE	AS NOTED																																																																													
DWG DATE	10/07/2020	SUPERSEDED																																																																														
DRAWING NUMBER		REVISION																																																																														
PNG -C-XXX-0001029		C																																																																														
CNS/KELLOGG/C367																																																																																

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB_1068.00	BB_1071.00
	JAMES V HUNTINGTON & LORI A RYAN HUNTINGTON MONROE TOWNSHIP	

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	335+50				
	336+00				
	337+00				



MATERIAL: CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01567

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS		APPROVALS REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER		DUK ENERGY Piedmont Natural Gas COPYRIGHT 2020		C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH		SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/07/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001030 REVISION C CKS/KLOGG/CW7	
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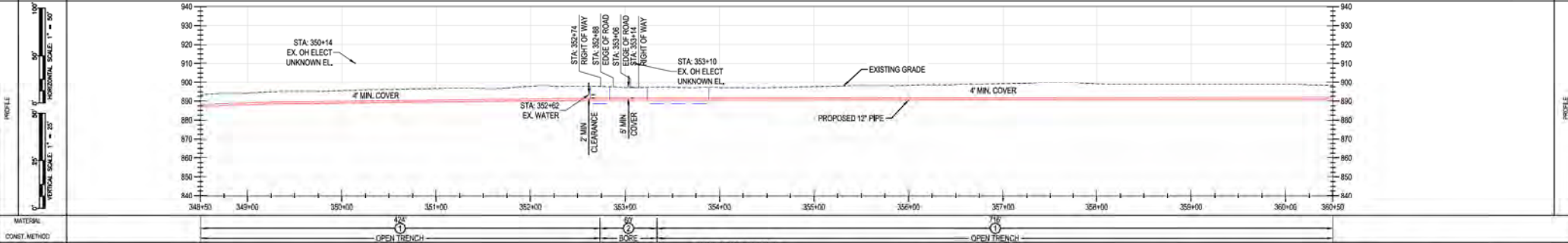
PROFESSIONAL ENGINEER STAMP DATE: 11/06/2020 PROJECT: 60% DESIGN FOR OPSS DRAWING BY: AKT CHECKER INITIALS: AMP	DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).	REF. DWG(S) SEE REFERENCE BAND.
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R/D/C/F/WAY	OWNERSHIP	BB 1071.00	BB 1072.00	R/W	BB 1073.00	R/D/C/F/WAY
	JURISDICTION	JAMES V HUNTINGTON & LORI A RYAN HUNTINGTON MONROE TOWNSHIP	MARK D RYAN JR MONROE TOWNSHIP	MONROE TOWNSHIP	STEVEN N & POPP RECHEL MANTUHAC MONROE TOWNSHIP	
	ACREAGE					
	EASEMENTS					
REF. DWG. NO.						

STATIONING						



PIPE DATA (SLOPE STATIONING)	STA	348+50	349+00	350+00	351+00	352+00	353+00	354+00	355+00	356+00	357+00	358+00	359+00	360+00	360+50
	WELLS #														
	WELLS #														
	WELLS #														



MATERIAL	PIPE	CLASS 4 / MDP 535 PSIG
CONVET. METHOD	OPEN TRENCH	
CLASS / MDP	OPEN TRENCH	

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BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

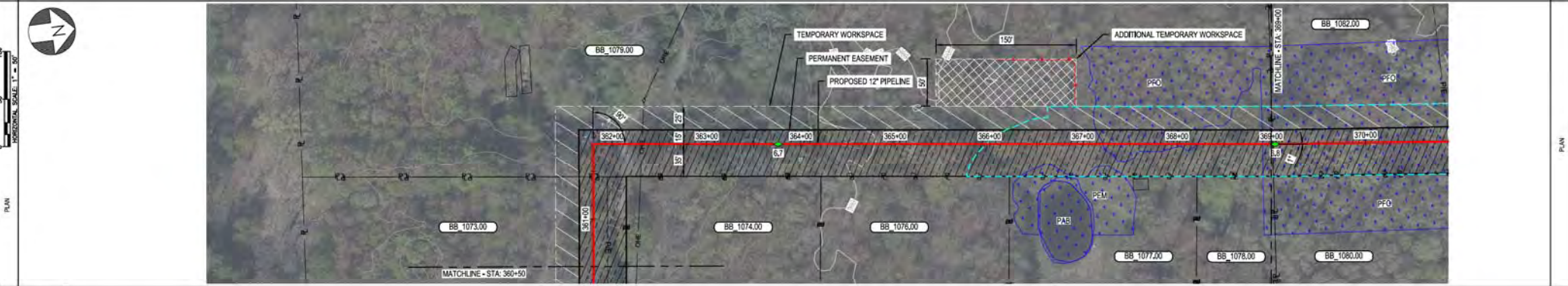
**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/07/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001031
REVISION	C

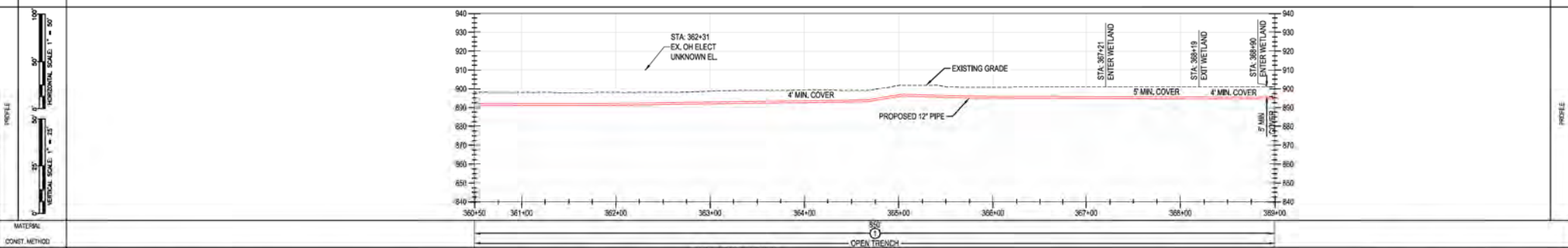
REV.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	APPROVALS	REGIONAL PROJECT/REC & STD
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

RIGHT-OF-WAY	OWNERSHIP	BB 1073.00	BB 1079.00	BB 1082.00
	JURISDICTION	STEVEN M & POPP RECHEL MANTUJAC	STEVEN M & POPP RECHEL MANTUJAC	BOBBY S BARLOW
	EASEMENTS	MONROE TOWNSHIP	MONROE TOWNSHIP	MONROE TOWNSHIP
REF. DWG. NO.				

STATIONING				
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PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	STA	WELL #



MATERIAL: CLASS 4 / MAOP 5.38 PSIG
CONVEY. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
						DRAWING BY	AKT		
						STATION ID			
						CHECKER INITIALS	AMP		

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X | DWG SCALE AS NOTED

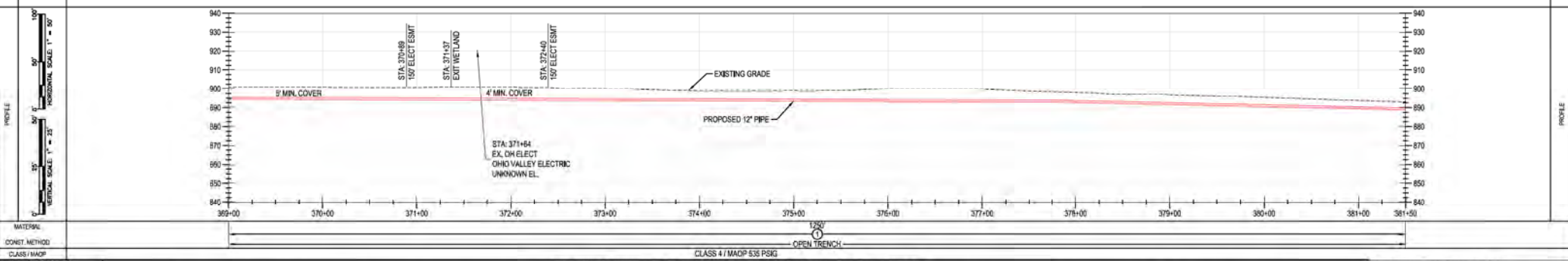
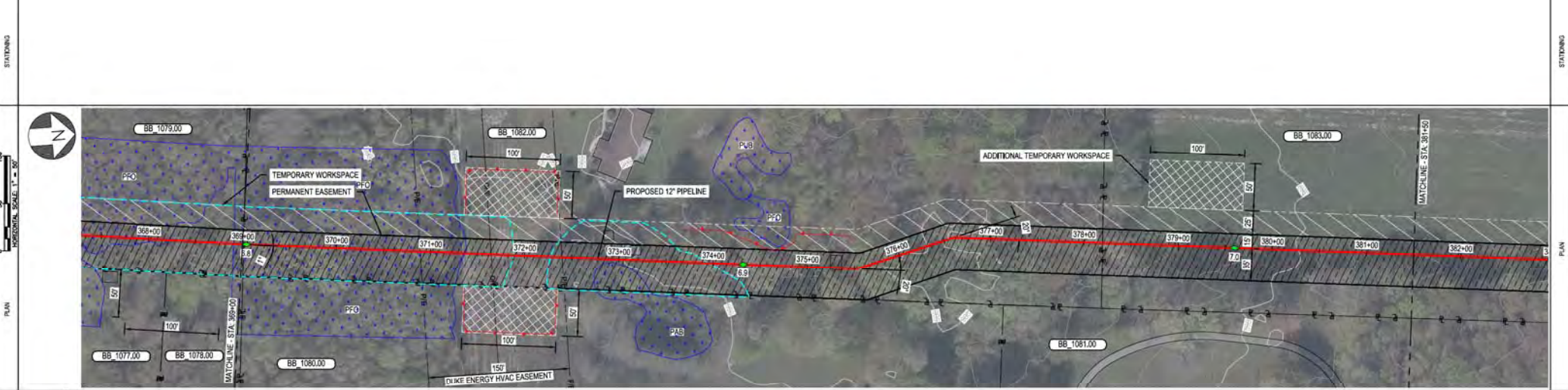
DWG DATE 10/07/2020 | SUPERSEDED

DRAWING NUMBER: PNG -C-XXX-0001032 | REVISION: C

CKEILLOGG007

PROFESSIONAL ENGINEER STAMP				
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OWNERSHIP	BB 1082.00	BB 1083.00
	SOBBY S BARLOW	WILLIAM TIMOTHY & DEBRA K HANCOCK
JURISDICTION	MONROE TOWNSHIP	MONROE TOWNSHIP
ACREAGE		
EASEMENTS	150' DUKE ENERGY HVAC EASEMENT	
REF. DWG. NO.		



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REF. DWG(S) SEE REFERENCE BAND.

REV	DATE	REVISIONS DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS PROJECT NUMBER	AW1982		
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

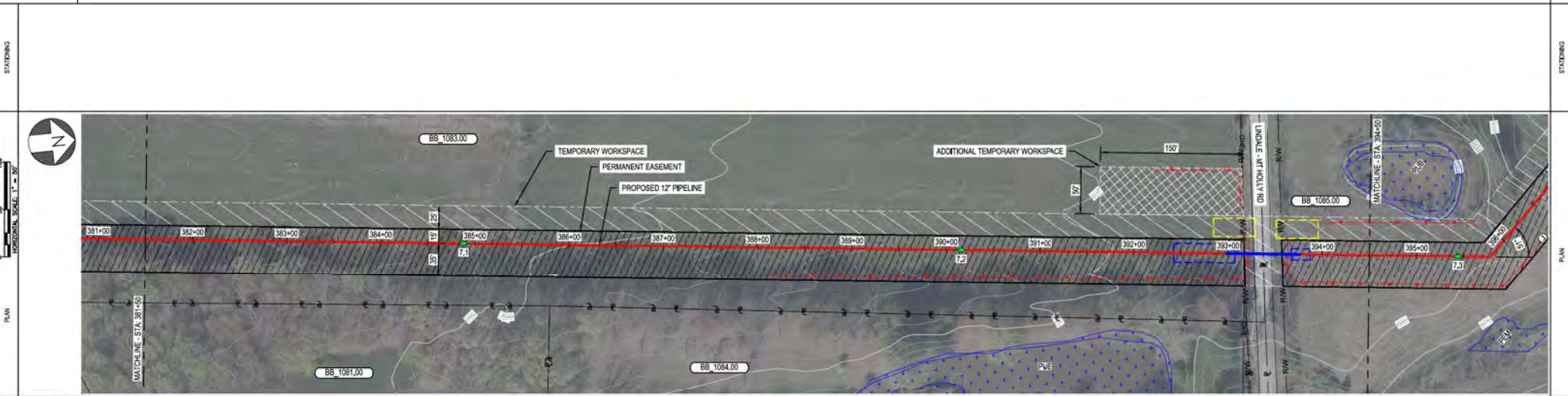
DUKE ENERGY | Piedmont Natural Gas

ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

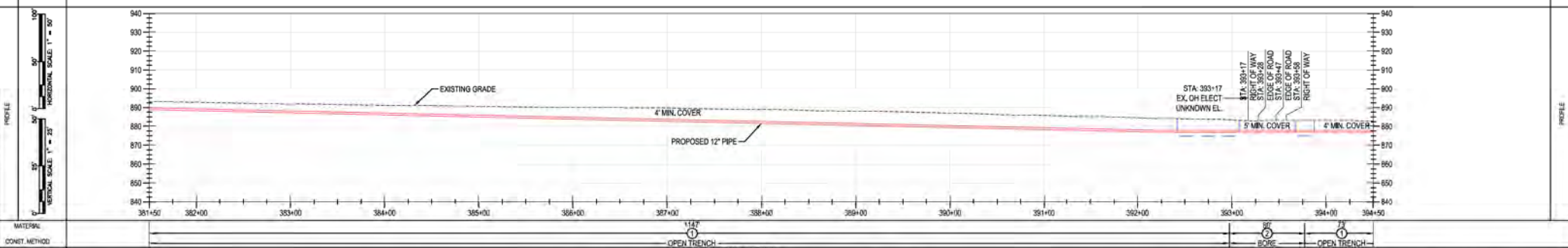
COPYRIGHT 2020

SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE 10/07/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001033 REVISION C
CNS/KELLOGG/CW7

OWNERSHIP	BB 1083.00	R/W	BB 1085.00
JURISDICTION	WILLIAM TIMOTHY & DEBRA K HANCOCK MONROE TOWNSHIP	MONROE TOWNSHIP	WILLIAM TIMOTHY & DEBRA K HANCOCK MONROE TOWNSHIP
ACREAGE			
EASEMENTS			
REF. DWG. NO.			



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND



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REV	DATE	REVISIONS DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1082		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY				AKT			
		STATION ID							
		CHECKER INITIALS				AMP			

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STATE LICENSE # OCA, 01567

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KELLOGG, OH

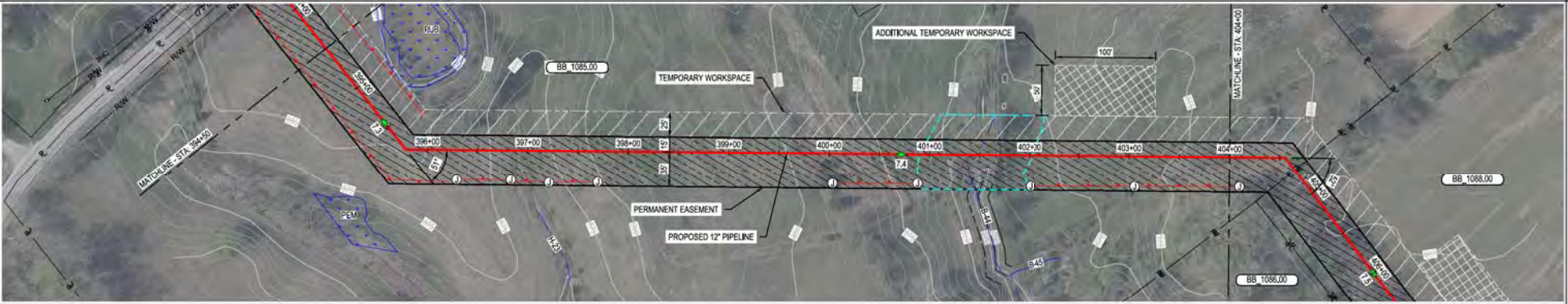
REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE 10/07/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001034 REVISION C
CNS/KELLOGG/C367

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

BB 1085.00
WILLIAM TIMOTHY & DEBRA K HANCOCK
MONROE TOWNSHIP

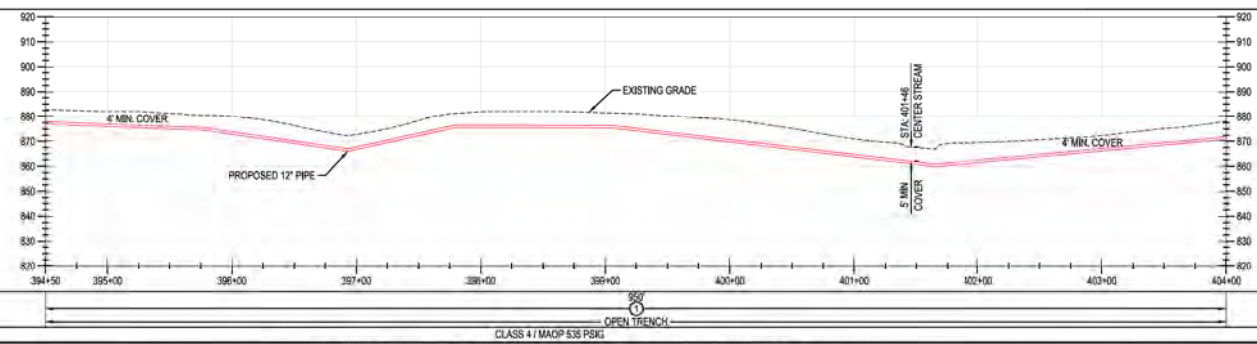
STATIONING



PIPE DATA
(SLOPE STATIONING)

STA.	WELL #	GRADE
394+50		878.0
395+00		878.0
396+00		878.0
397+00		878.0
398+00		878.0
399+00		878.0
400+00		878.0
401+00		878.0
402+00		878.0
403+00		878.0
404+00		878.0

PROFILE



MATERIAL
CONVET. METHOD
CLASS / MAOP

CLASS 4 / MAOP 535 PSIG

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REF. DWG(S) SEE REFERENCE BAND.

REV.	DATE	REVISIONS DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSS

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
AKT	JMP	CNS	AREA CODE		
AKT	JMP	CNS	ACCOUNT NUMBER	AW1082	
AKT	JMP	CNS	PROJECT NUMBER	AW1982	
			DRAWING BY	AKT	
			STATION ID		
			CHECKER INITIALS	JMP	

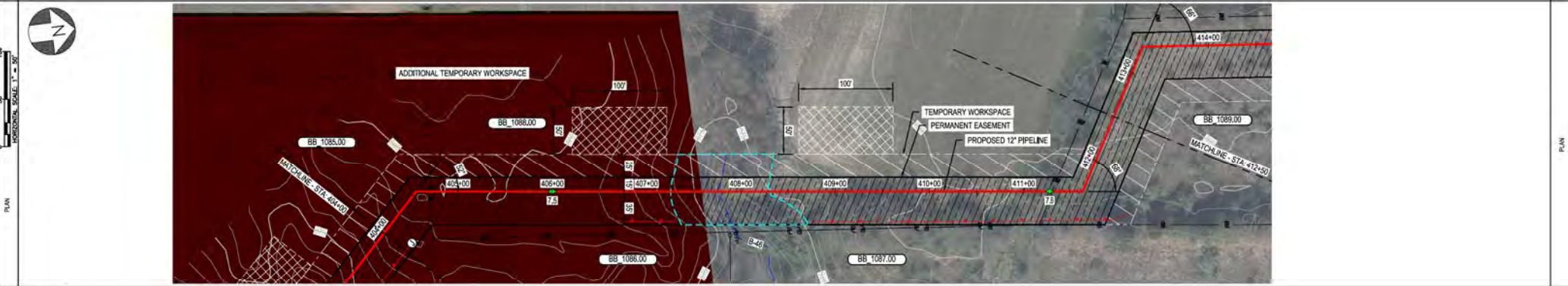
REGIONAL ENGINEER	DATE	INITIALS
MGR TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

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ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 10/07/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001035	C
CNS100000007	

BENCH-MARK STATIONING	OWNERSHIP	BB 1085.00	BB 1086.00	BB 1089.00
	JURISDICTION	WILLIAM TIMOTHY & DEBRA K HANCOCK MONROE TOWNSHIP	TIMOTHY & DEBRA HANCOCK MONROE TOWNSHIP	RANDY J NIENABER MONROE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELLS #	COND.	PIPE	COVER	WADP
	STA.	WELLS #	COND.	PIPE	COVER	WADP

MATERIAL: CLASS 4 / MAOP 538 PSIG

CONVEY METHOD: OPEN TRENCH

CLASS 4 / MAOP 538 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # OCA, 01557

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		MGR TECH REC & STD
		DRAWING BY	AKT						PRINCIPAL ENGINEER
		STATION ID							
		CHECKER INITIALS	AMP						

DUKE ENERGY, Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

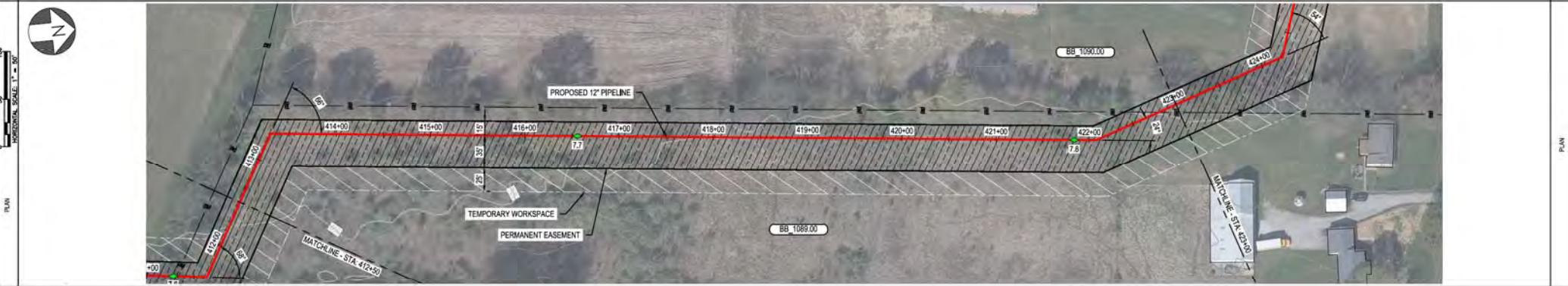
KELLOGG, OH

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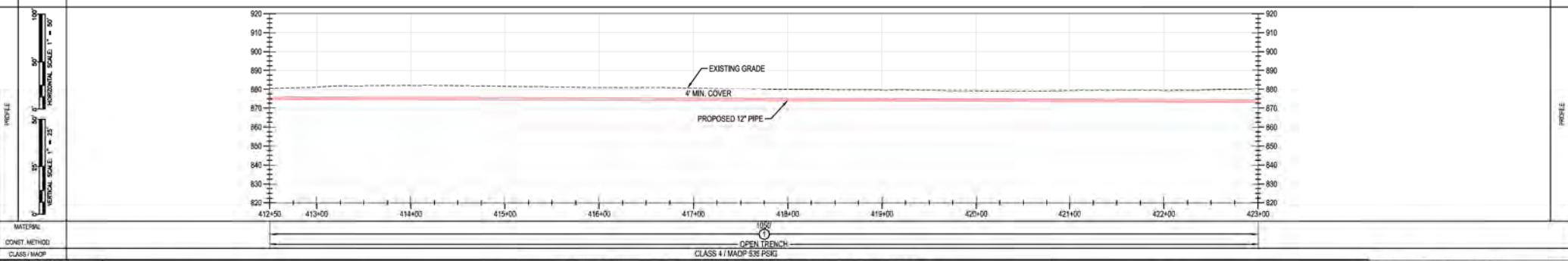
REF. DWG(S)	SEE REFERENCE BAND.
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/07/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001036
REVISION	C
CNKL00000000	

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1089.00 RANDY J NIENASER MONROE TOWNSHIP	BB 1090.00 REBECCA ANDERSON MONROE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	STA.	WELD #



MATERIAL: OPEN TRENCH CLASS 4 / MADP 538 PSKG

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REF. DWG(S) SEE REFERENCE BAND.

REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL MANAGER: MGR TECH REC & STD, PRINCIPAL ENGINEER

DUKE ENERGY, Piedmont Natural Gas

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KELLOGG, OH

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SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001037 REVISION C
CNSKELLOGG007

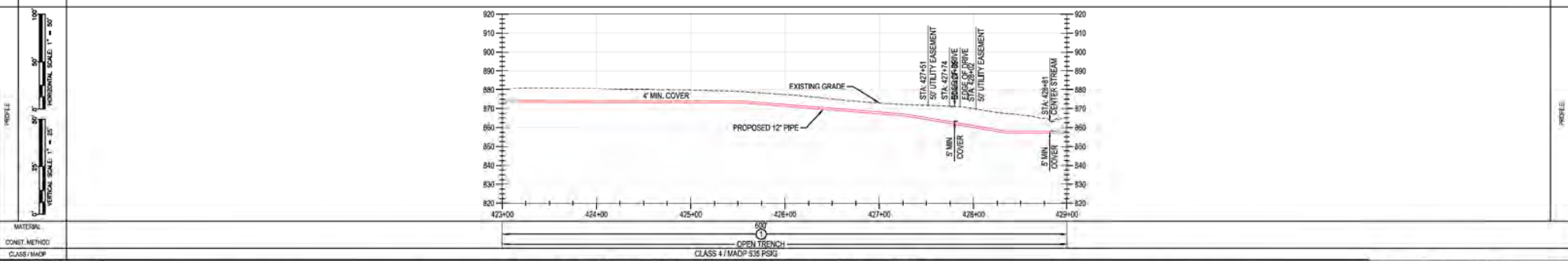
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1090.00	BB 1091.00
	JURISDICTION	REBECCA ANDERSON MONROE TOWNSHIP	STEVEN D & CONNIE WILFERT MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COAT	WELD #	COAT
	STA.	WELD #	COAT	STA.	WELD #



MATERIAL: CLASS 4 / MADP 535 PSIG
CONSTR. METHOD: OPEN TRENCH
CLASS 4 / MADP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001038 REVISION C
CKELLOGG/CW7

REV.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-	MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
DRAWING BY			AKT						
STATION ID									
CHECKER INITIALS			AMP						

R/O OF WAY	OWNERSHIP	BB 1091.00	R/W	BB 1095.00	BB 1094.00	BB 1097.00
	JURISDICTION	STEVEN D & CONNIE WILFERT MONROE TOWNSHIP	MONROE TOWNSHIP	JESSICA & LISA GROW MONROE TOWNSHIP	STACY R KATTELMAN MONROE TOWNSHIP	AMANDA LYNN WHEELER MONROE TOWNSHIP
	ACREAGE					
	EASEMENTS					
REF. DWG. NO.						

STATIONING



NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.

CLASS 4 / MADO 5.35 PSIG

MATERIAL:
CONSTR. METHOD:
CLASS / MADO

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REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISIONS / DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	-	-
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

APPROVALS

REGIONAL MANAGER	DATE	INITIALS
MANAGER TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

DUKE ENERGY | Piedmont Natural Gas

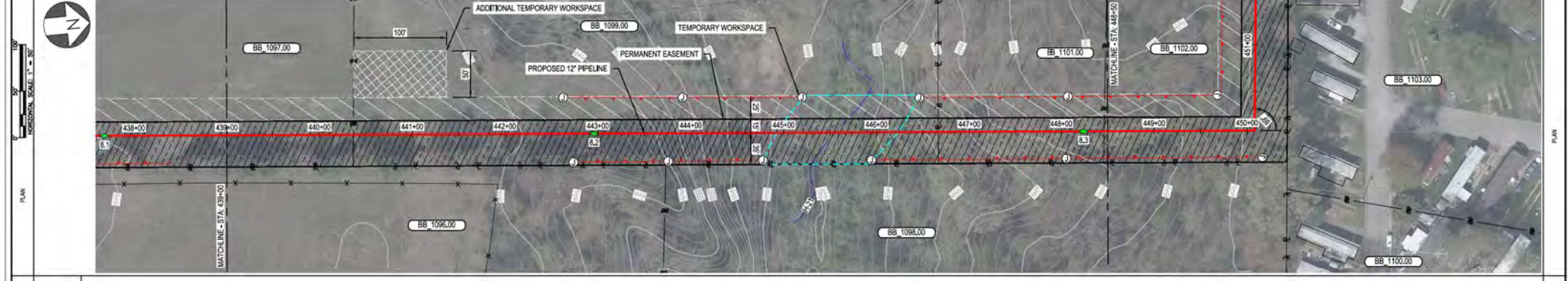
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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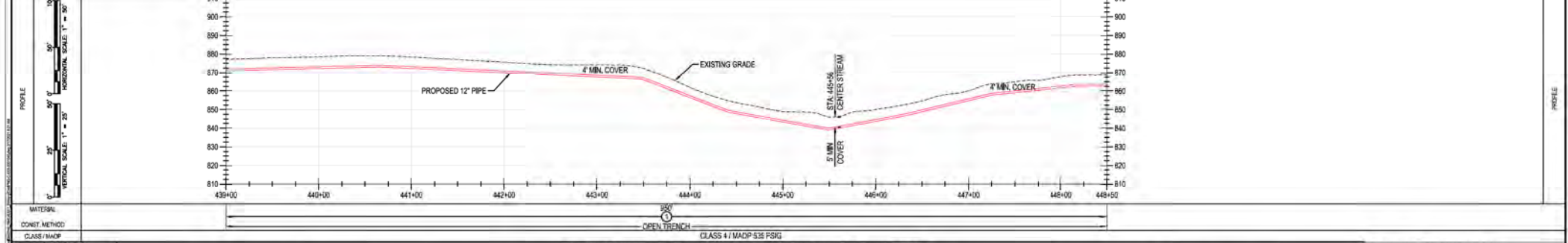
SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED
DRAWING NUMBER
REVISION
PNG -C-XXX-0001039 C
CNS/KELLOGG/C367

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1097.00 AMANDA LYNN WHEELER MONROE TOWNSHIP	BB 1099.00 KEITH RICHARD COFFEY MONROE TOWNSHIP	BB 1101.00 CHARLES B & CYNTHIA K SOUTHAL MONROE TOWNSHIP	BB 1102.00 EVAN & MANDE BRINGER MONROE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND



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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	-	-	-
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-	-
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-	-
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

REGIONAL ENGINEER: [Signature]

MANAGER TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

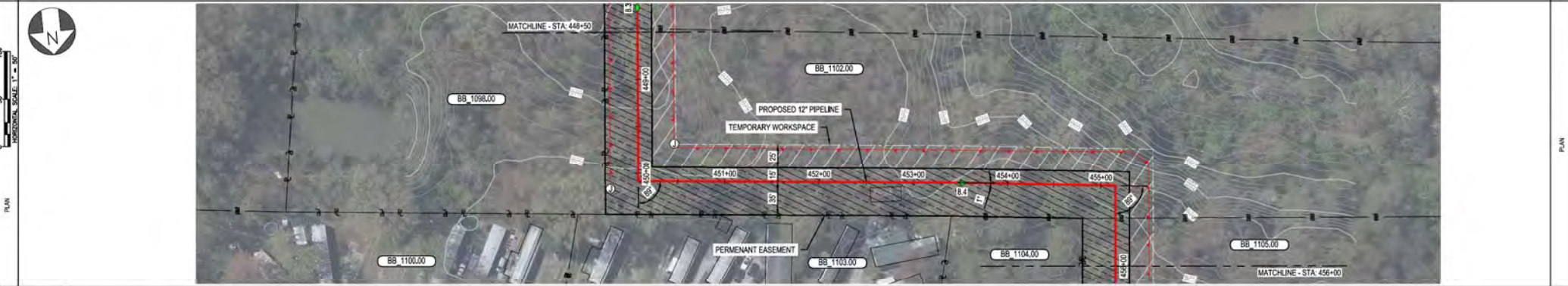
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DRAWING NUMBER PNG -C-XXX-0001040 REVISION C

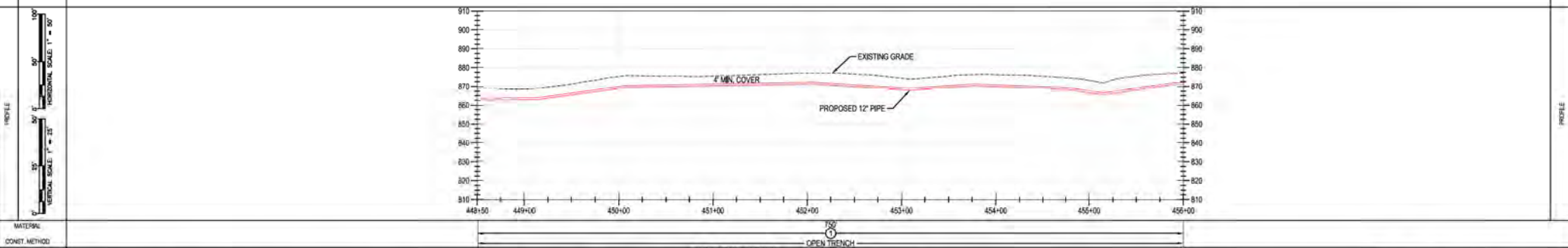
CNSKELLOGG007

BENCH-MARK	OWNERSHIP	BB 1102.00	BB 1105.00
	JURISDICTION	EVAN & MANDE BRINGER MONROE TOWNSHIP	JOSEPH AMMERMAN MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
------------	--



PIPE DATA (SLOPE STATIONING)	STA.	WELLS #	COND.	WELLS #	COND.
	STA.	WELLS #	COND.	STA.	WELLS #
	STA.	WELLS #	COND.	STA.	WELLS #
	STA.	WELLS #	COND.	STA.	WELLS #



MATERIAL:	CLASS / MAOP
CONVET. METHOD:	CLASS / MAOP

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REF. DWG(S)	SEE REFERENCE BAND.
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XXXX/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001041
REVISION	C

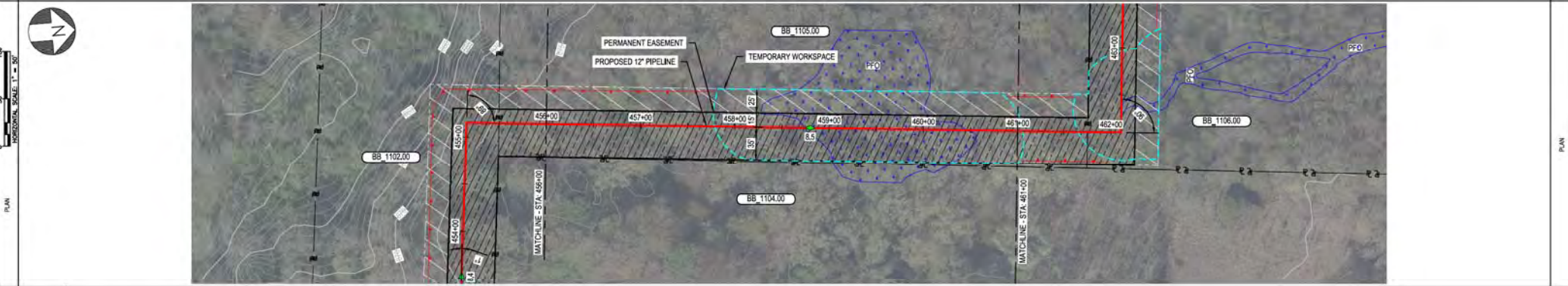
DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

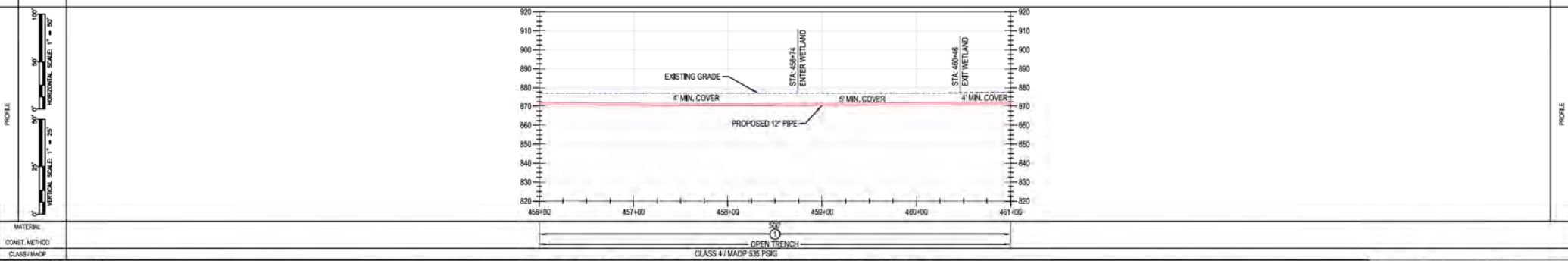
PROFESSIONAL ENGINEER STAMP

RHDG/OF-WAY	OWNERSHIP	BB 1105.00
	JURISDICTION	JOSEPH AMMERMAN
	ACREAGE	MONROE TOWNSHIP
	EASEMENTS	
REF. DWG. NO.		

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL: OPEN TRENCH
CONSTR. METHOD: CLASS 4 / MADP 535 PSIG

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS		
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	-	-	-		
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-	-		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-	-		
DRAWING BY: AKT			DRAWING CHECKED BY: AMP			DRAWING APPROVED BY: CNS			REGIONAL MANAGER:		
STATION ID			CHECKER INITIALS: AMP			DATE			MGR TECH REC & STD		
PROFESSIONAL ENGINEER STAMP			DATE			DATE			PRINCIPAL ENGINEER		

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X | DWG SCALE AS NOTED

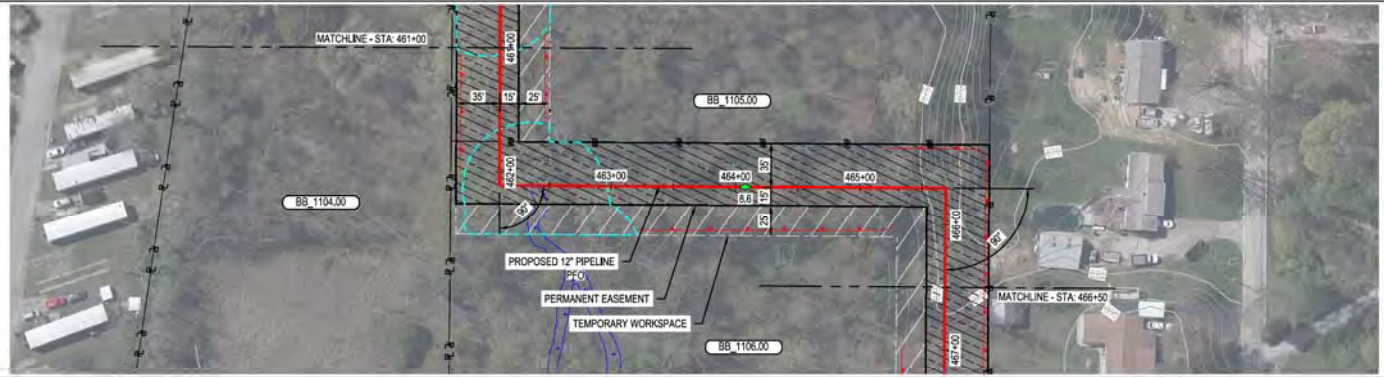
DWG DATE XXXX/2020 SUPERSEDED

DRAWING NUMBER: PNG -C-XXX-0001042 | REVISION: C

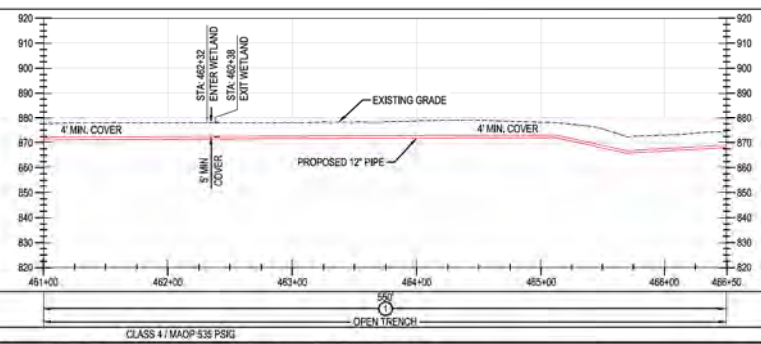
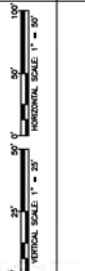
CNS/KELLOGG/C37

RIFIC-OF-WAY	OWNERSHIP	BB 1105.00	BB 1106.00
	JURISDICTION	JOSEPH AMMERMAN MONROE TOWNSHIP	KATERINA P GRAMMAS MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
	REF. DWG. NO.		

STATIONING		
PLAN		
PROFILE		



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL: _____
 CONST. METHOD: _____
 CLASS / MAOP: _____

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BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557		*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)		REF. DWG(S) SEE REFERENCE BAND	
NO. DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	REVISIONS/DESCRIPTION 	BY CHK (APPV) AKT JMP CNS AREA CODE AKT JMP CNS ACCOUNT NUMBER AW1982 AKT JMP CNS PROJECT NUMBER AW1982 DRAWING BY AKT STATION ID CHECKER INITIALS AMP	DESCRIPTION 	APPROVALS 	REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER KELLOGG, OH COPYRIGHT 2020

C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE XXXX/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001043	C

PROFESSIONAL ENGINEER STAMP	
-----------------------------	--

BB 1106.00
KATERINA P GRAMMAS
MONROE TOWNSHIP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

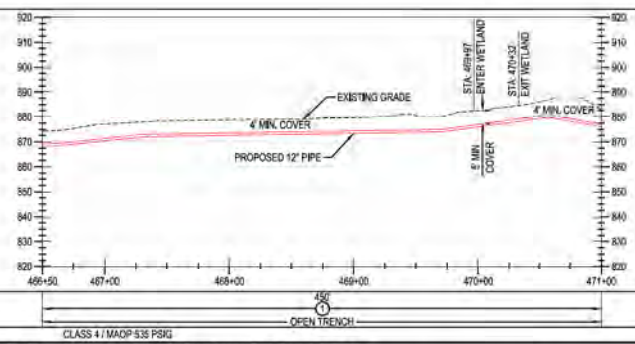
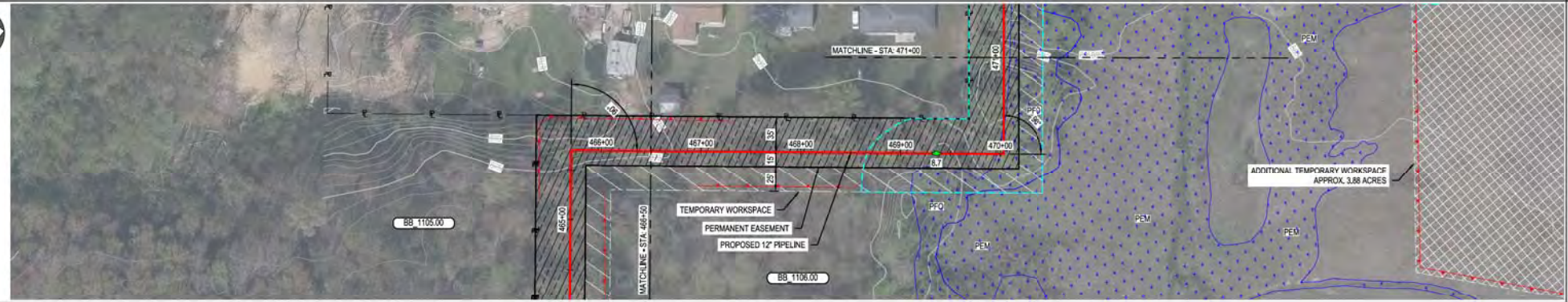
STATIONING

PLAN
VERTICAL SCALE 1" = 20'
HORIZONTAL SCALE 1" = 50'

PIPE DATA
(SLOPE STATIONING)
STA. WELLS # (CON) WELLS # (CON)
WELLS # (CON) WELLS # (CON)

PROFILE
VERTICAL SCALE 1" = 20'
HORIZONTAL SCALE 1" = 50'

MATERIAL
CONSTR. METHOD
CLASS / MAOP



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ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSS	AKT	AMP	CNS	PROJECT NUMBER AW1982
			DRAWING BY		AKT	
			STATION ID			
			CHECKER INITIALS		AMP	

APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	

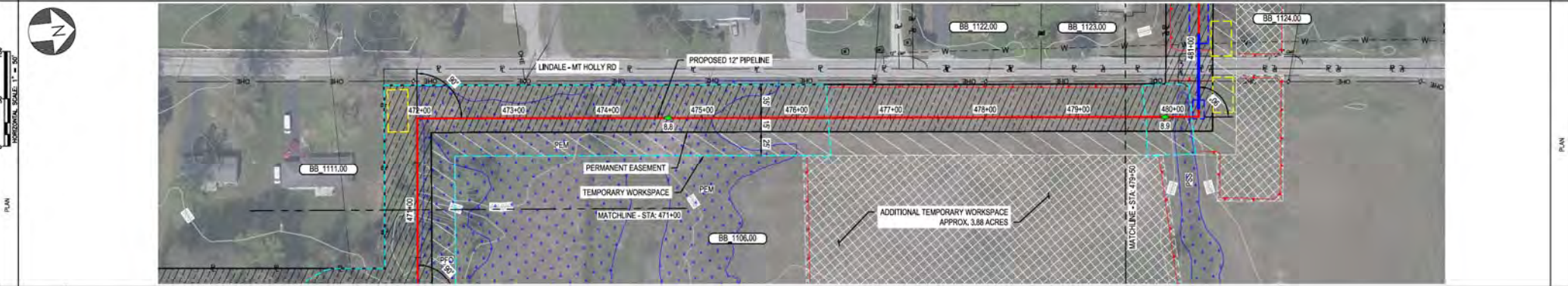
MGR TECH REC & STD
PRINCIPAL ENGINEER
DUKE ENERGY
Piedmont Natural Gas
KELLOGG, OH
COPYRIGHT 2020

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

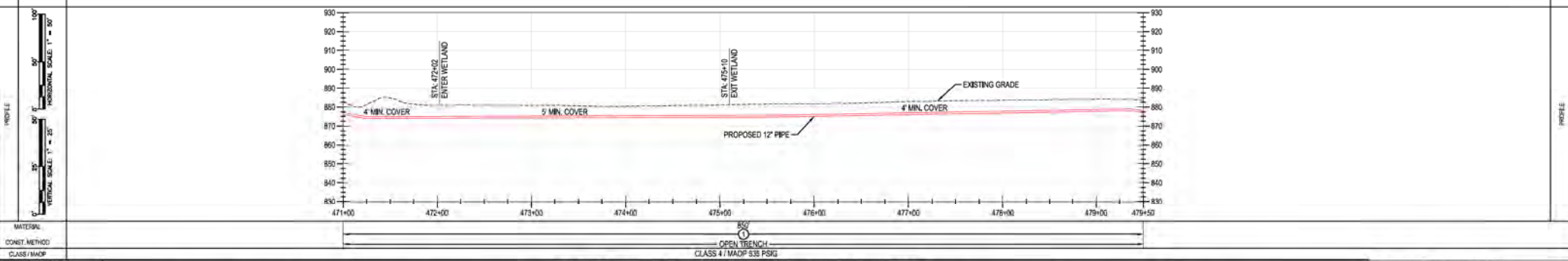
REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020
DRAWING NUMBER	PNG -C-XXX-0001044
REVISION	C

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1106.00 KATERINA P GRAMMAS MONROE TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA. 471+00	STA. 472+00	STA. 473+00	STA. 474+00	STA. 475+00	STA. 476+00	STA. 477+00	STA. 478+00	STA. 479+50



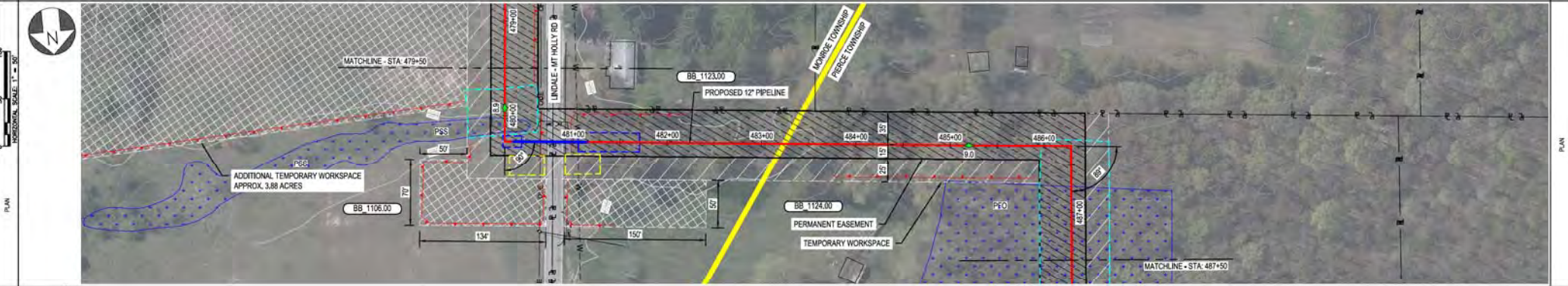
MATERIAL: CONST. METHOD: CLASS / MADP

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557		DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).				REF. DWG(S) SEE REFERENCE BAND	
NCL DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	REVISIONS/DESCRIPTION 1 2 3	BY CHK (APPV) AKT JMP CNS AKT JMP CNS AKT JMP CNS	DESCRIPTION AREA CODE ACCOUNT NUMBER PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	AW1982 AW1982 AKT AKT	APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	DUK ENERGY Piedmont Natural Gas	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001045 C C:\KELLOGG\007

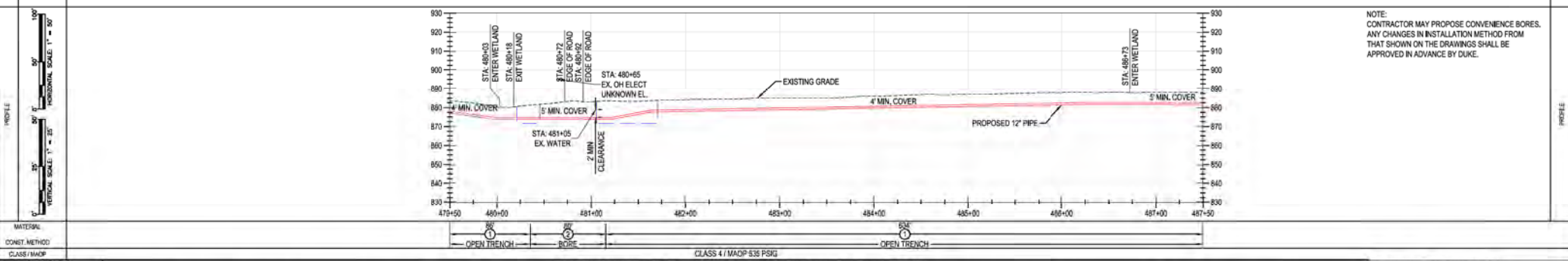
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1106.00	R/W	BB 1124.00
	JURISDICTION	KATERINA P GRAMMAS MONROE TOWNSHIP	MONROE TOWNSHIP	KATHY LYNN & ROBERT P OLSON MONROE/PIERCE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	WELL #	WELL #	WELL #	WELL #
	STA.	STA.	STA.	STA.



NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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REF. DWG(S) SEE REFERENCE BAND

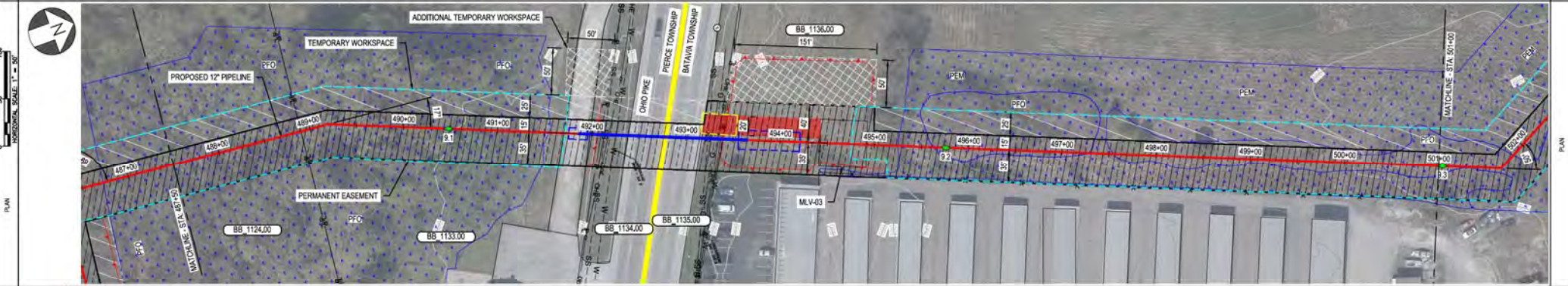
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B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS: ACCOUNT NUMBER	AW1982		MANAGER TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS: PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO
KELLOGG, OH

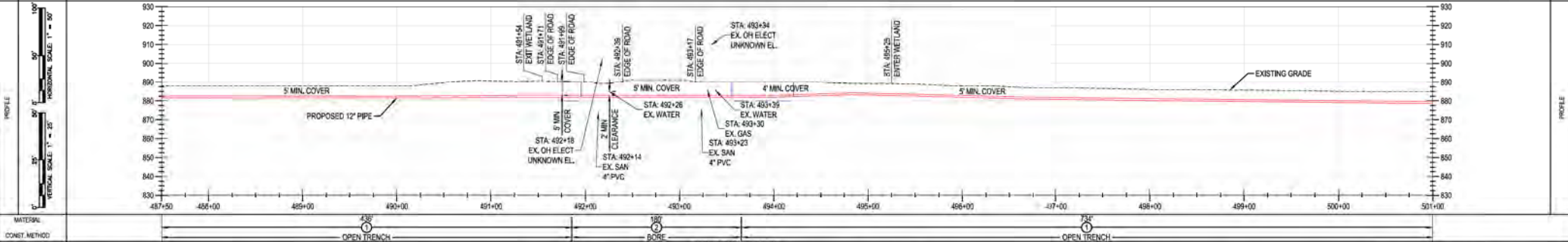
SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001046 C
REVISION C
CNS: KELLOGG/C367

RDC/OWNER	OWNERSHIP	BB 1124.00	BB 1133.00	BB 1134.00	BB 1135.00	BB 1136.00
	JURISDICTION	KATHY LYNN & ROBERT P OLSON PIERCE TOWNSHIP	LOCUST RIDGE LAND COMPANY LLC PIERCE TOWNSHIP	STATE OF OHIO PIERCE TOWNSHIP	STATE OF OHIO BATAVIA TOWNSHIP	KATH DEVELOPMENT LLC BATAVIA TOWNSHIP
	ACREAGE					
EASEMENTS						
REF. DWG. NO.						

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	12" 40#
	DATE	08/20
VERTICAL DATA	STA.	487+00
	STA.	501+00



MATERIAL: CLASS / MAMP: OPEN TRENCH / CLASS 4 / MADP 535 PSIG

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MFL DATE: A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	REVISED/DESCRIPTION BY: AKT CHK: JMS AREA CODE: AW1982 PROJECT NUMBER: AW1982 DRAWING BY: AKT STATION ID: CHECKER INITIALS: AMP	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER: PNG -C-XXX-0001047 REVISION: C CNEKLL000C07

DUKE ENERGY

Piedmont Natural Gas

REGIONAL ENGINEER

MGR TECH REC & STD

PRINCIPAL ENGINEER

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C367 PIPELINE ALIGNMENT SHEET

CLERMONT COUNTY, OHIO

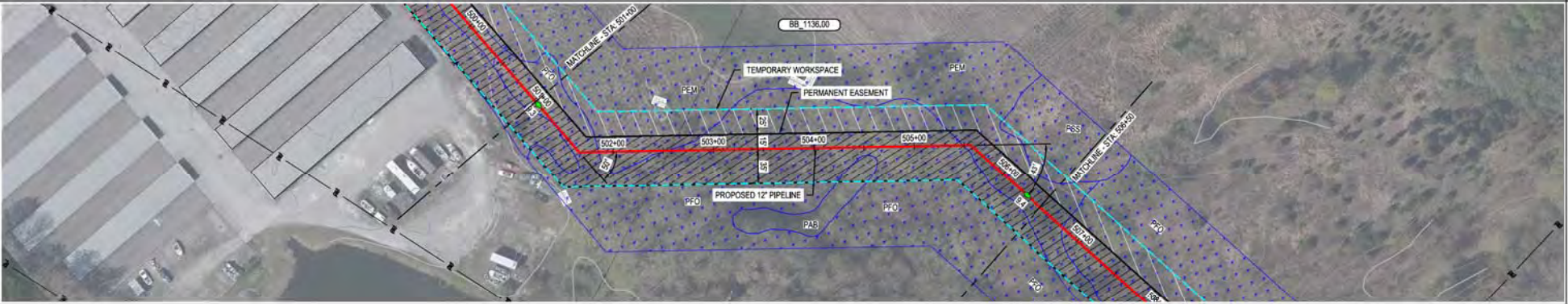
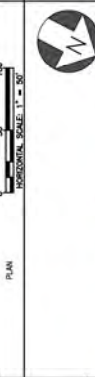
KELLOGG, OH

PROFESSIONAL ENGINEER STAMP

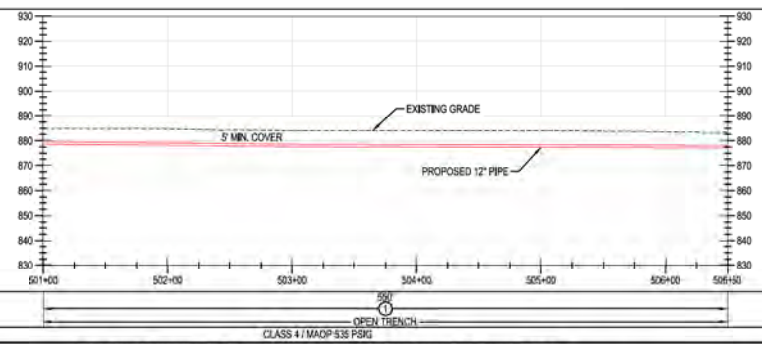
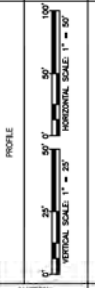
OWNERSHIP
KATH DEVELOPMENT LLC
JURISDICTION
BATAVIA TOWNSHIP
ACREAGE
EASEMENTS
REF. DWG. NO.

BB 1136.00
KATH DEVELOPMENT LLC
BATAVIA TOWNSHIP

STATIONING



PIPE DATA
(SLOPE STATIONING)
STA. WELLS # (SLOPE)
STA. WELLS # (SLOPE)



MATERIAL:
CONSTR. METHOD:
CLASS / MAOP:

CLASS 4 / MAOP 535 PSIG
OPEN TRENCH

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION
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B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSS	AKT	AMP	CNS	PROJECT NUMBER AW1982
						DRAWING BY AKT
						STATION ID
						CHECKER INITIALS AMP

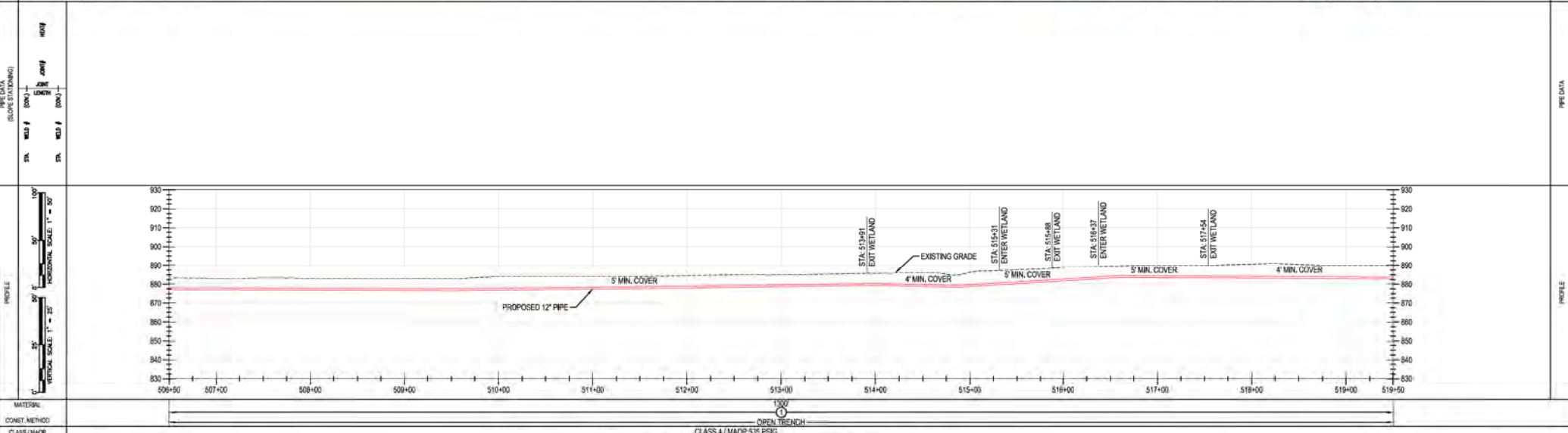
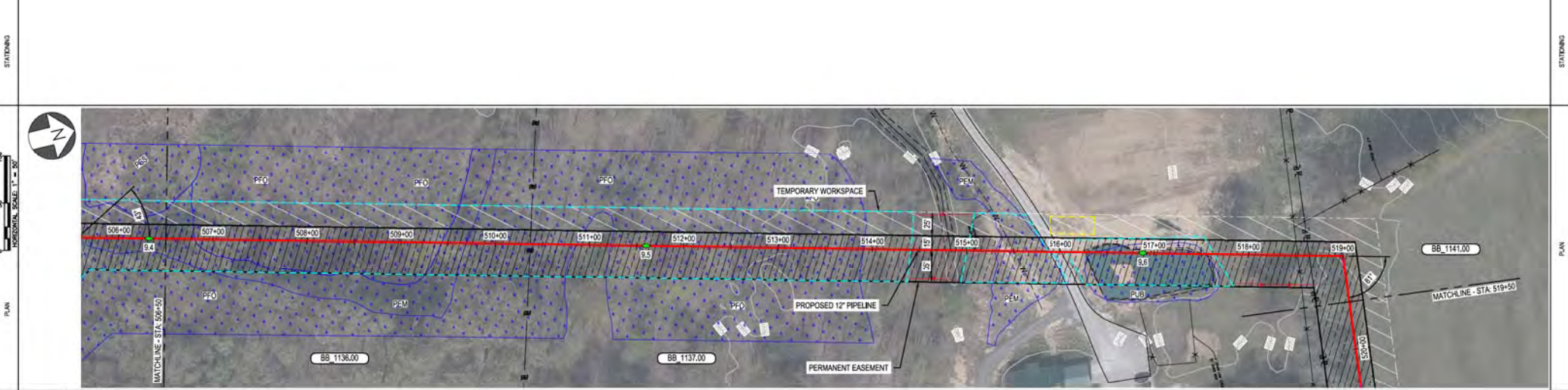
APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
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DATE	INITIALS	
DATE	INITIALS	

DUKE ENERGY
Piedmont Natural Gas
MGR TECH REC & STD
PRINCIPAL ENGINEER
KELLOGG, OH
COPYRIGHT 2020

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XXXX/2020
DRAWING NUMBER	PNG -C-XXX-0001048
REVISION	C

BENCH-MARK	OWNERSHIP	BB 1136.00	BB 1137.00	BB 1141.00
	JURISDICTION	KATH DEVELOPMENT LLC BATAVIA TOWNSHIP	AMY & ROHRICH STEVE KIPP BATAVIA TOWNSHIP	THOMAS F ROHRICH & CONNIE J ROHRICH CO TRUSTEES BATAVIA TOWNSHIP
	EASEMENTS			
REF. DWG. NO.				



MATERIAL:	OPEN TRENCH		
CONSTR. METHOD:	CLASS 4 / MADO 5/35 PSIG		
CLASS / MADO:	CLASS 4 / MADO 5/35 PSIG		

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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REF. DWG(S) SEE REFERENCE BAND

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	DESCRIPTION - - -	BY AKT AKT AKT	CHK JMS JMS JMS	APPROV. DATE DATE DATE	REGIONAL FACILITATOR MGR TECH REC & STD PRINCIPAL ENGINEER	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001049 C
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C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

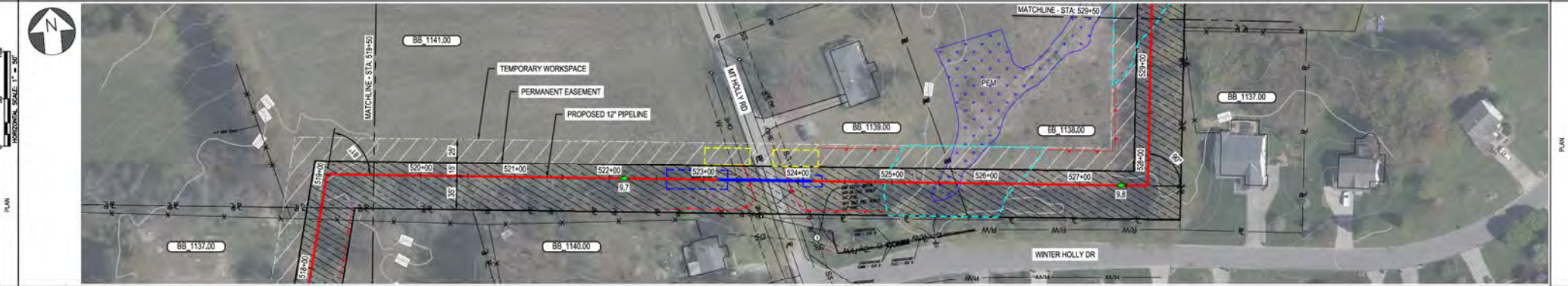
DUKE ENERGY | Piedmont Natural Gas

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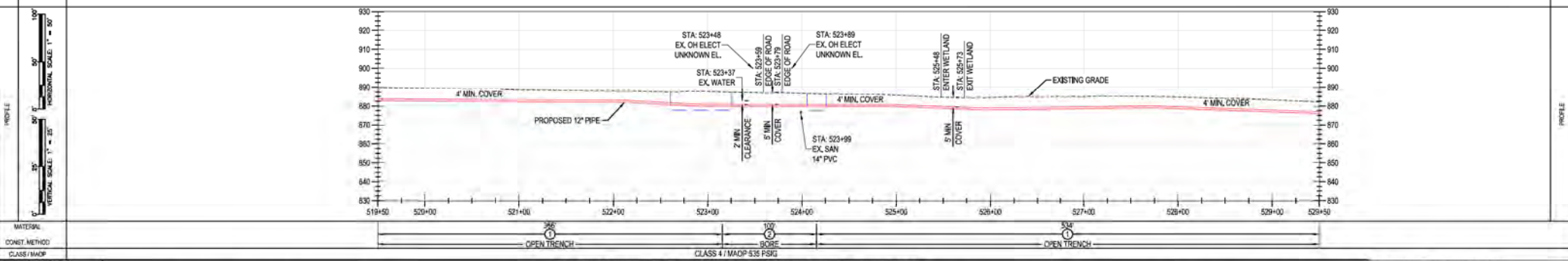
PROFESSIONAL ENGINEER STAMP

OWNER	BB 1141.00	BB 1139.00	BB 1138.00
	THOMAS F ROHRICH & CONNIE J ROHRICH CO TRUSTEES	WILLIAM J HOWARD	GLENN R & REBECCA HAYES
	BATAVIA TOWNSHIP		
JURISDICTION			
ACREAGE			
EASEMENTS			
REF. DWG. NO.			

STATIONING

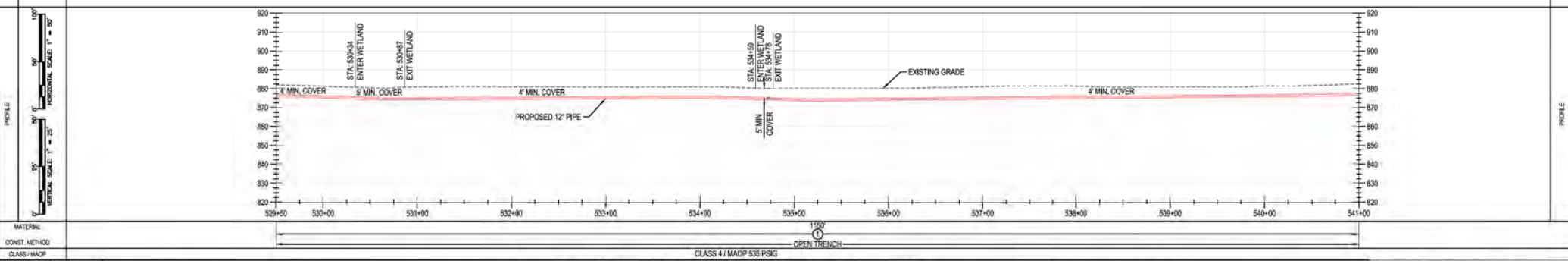
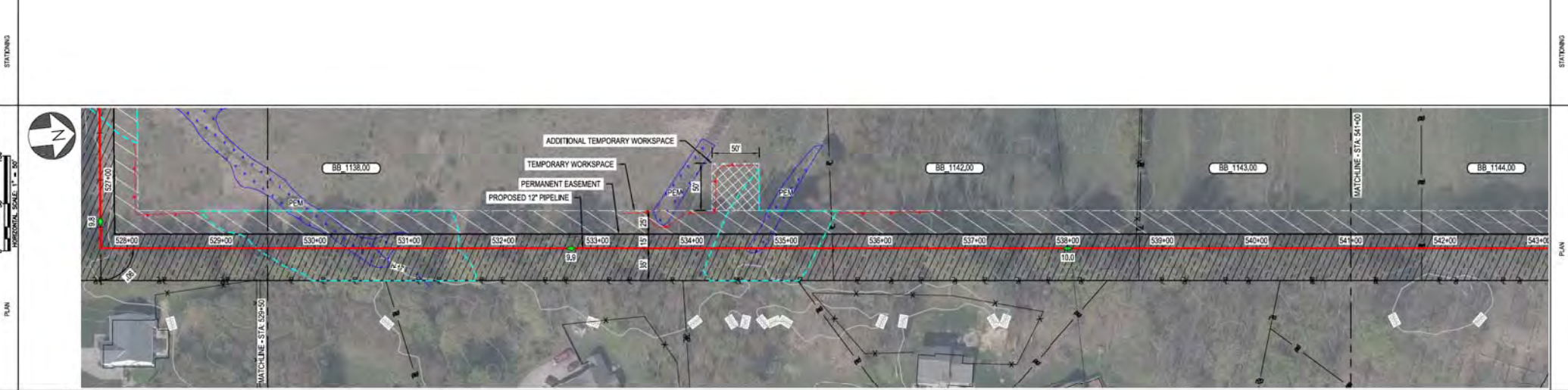


PIPE DATA (SLOPE STATIONING)	WELL #	WELL #	WELL #	WELL #	WELL #	WELL #
STA.	STA.	STA.	STA.	STA.	STA.	STA.
WELL #	WELL #	WELL #	WELL #	WELL #	WELL #	WELL #
STA.	STA.	STA.	STA.	STA.	STA.	STA.



<p>BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557</p>		<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE* TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)</p>			<p>REF. DWG(S) SEE REFERENCE BAND</p>																																																																			
<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS/DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSS</td> </tr> </table>	NO.	DATE	REVISIONS/DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	B	12-18-2020	REVISED 30% DESIGN	C	02-19-2021	60% DESIGN FOR OPSS	<table border="1"> <tr> <th>REV</th> <th>CHK</th> <th>APPV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>INITIALS</th> </tr> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>AREA CODE</td> <td>-</td> <td>-</td> </tr> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>ACCOUNT NUMBER</td> <td>AW1982</td> <td>-</td> </tr> <tr> <td>AKT</td> <td>JMP</td> <td>CNS</td> <td>PROJECT NUMBER</td> <td>AW1982</td> <td>-</td> </tr> <tr> <td colspan="3">DRAWING BY</td> <td>AKT</td> <td></td> <td></td> </tr> <tr> <td colspan="3">STATION ID</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">CHECKER INITIALS</td> <td>JMP</td> <td></td> <td></td> </tr> </table>	REV	CHK	APPV	DESCRIPTION	DATE	INITIALS	AKT	JMP	CNS	AREA CODE	-	-	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-	DRAWING BY			AKT			STATION ID						CHECKER INITIALS			JMP			<table border="1"> <tr> <th>DATE</th> <th>INITIALS</th> <th>APPROVALS</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	DATE	INITIALS	APPROVALS										<p>REGIONAL MANAGER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>	<p>DUKE ENERGY</p> <p>Piedmont Natural Gas</p>	<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p> <p>COPYRIGHT 2020</p>	<p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE XXXX/2020 SUPERSEDED</p> <p>DRAWING NUMBER</p> <p>REVISION</p> <p>PNG -C-XXX-0001050 C</p> <p>CKELLOGG/C367</p>
NO.	DATE	REVISIONS/DESCRIPTION																																																																						
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CHECKER INITIALS			JMP																																																																					
DATE	INITIALS	APPROVALS																																																																						

BENCH-MARK STATIONING	OWNERSHIP	BB 1138.00	BB 1142.00	BB 1143.00
	JURISDICTION	GLENN R & REBECCA HAYES BATAVIA TOWNSHIP	ARTHUR R & CLARA P KINGERY TRUSTEES BATAVIA TOWNSHIP	DONALD R GREYER & KATHRYN J GLOVER GREYER BATAVIA TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				



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<p>REF. DWG(S) SEE REFERENCE BAND.</p> <p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE XXXX/2020 SUPERSEDED</p> <p>DRAWING NUMBER PNG -C-XXX-0001051 C</p> <p>REVISION</p> <p>CNKL00000000</p>	<p>APPROVALS</p> <table border="1"> <tr> <th>DATE</th> <th>INITIALS</th> <th>REGIONAL ENGINEER</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <th>DATE</th> <th>INITIALS</th> <th>MGR TECH REC & STD</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <th>DATE</th> <th>INITIALS</th> <th>PRINCIPAL ENGINEER</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>DUKE ENERGY Piedmont Natural Gas</p> <p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p> <p>COPYRIGHT 2020</p>	DATE	INITIALS	REGIONAL ENGINEER				DATE	INITIALS	MGR TECH REC & STD				DATE	INITIALS	PRINCIPAL ENGINEER			
DATE	INITIALS	REGIONAL ENGINEER																	
DATE	INITIALS	MGR TECH REC & STD																	
DATE	INITIALS	PRINCIPAL ENGINEER																	

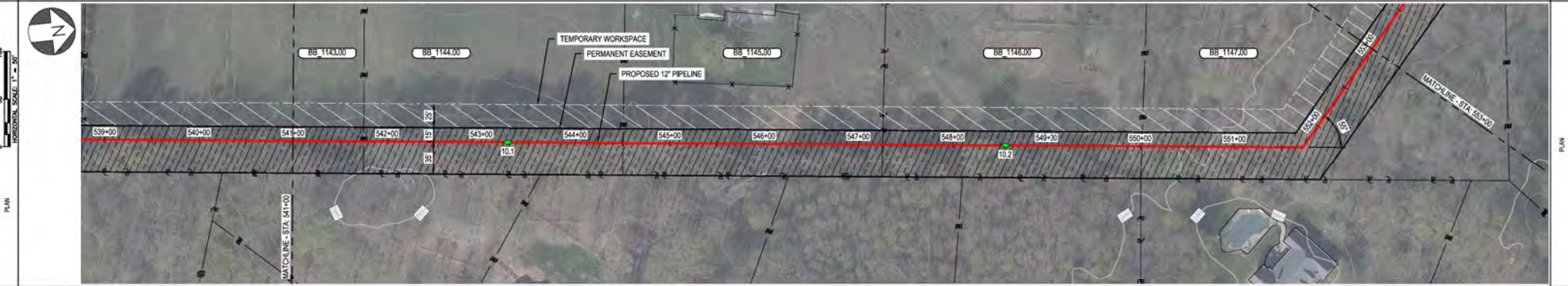
BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPS	AKT	JMP	CNS	PROJECT NUMBER AW1982
						DRAWING BY AKT
						STATION ID
						CHECKER INITIALS AMP

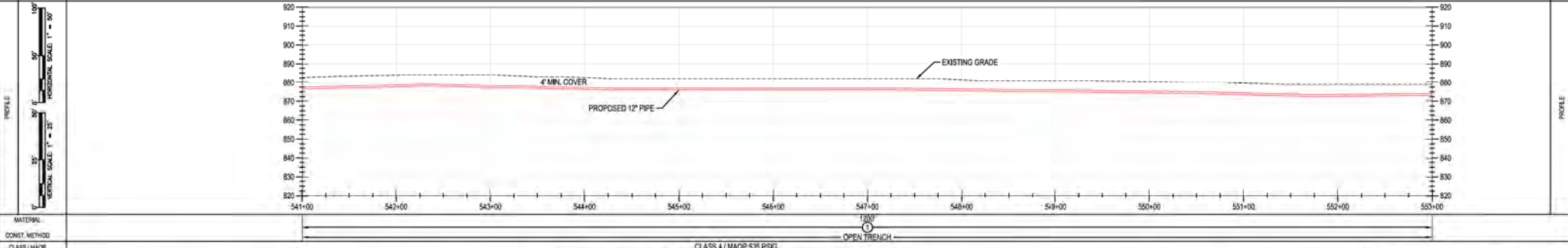
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1143.00	BB 1144.00	BB 1145.00	BB 1146.00	BB 1147.00
	JURISDICTION	DONALD R GREVER & KATHRYN J GLOVER GREVER BATAVIA TOWNSHIP	SHARON M LONG BATAVIA TOWNSHIP	STEPHANIE B & BRYAN A MAHAFFEY BATAVIA TOWNSHIP	ADAM FOGELMAN BATAVIA TOWNSHIP	ULREYS RUN LTD BATAVIA TOWNSHIP
	ACREAGE					
	EASEMENTS					
REF. DWG. NO.						

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELLS #	COND.	WELLS #	COND.
	STA.	WELLS #	COND.	STA.	WELLS #



MATERIAL: CLASS 4 / MADP 535 PSIG
CONST. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

NO. DATE REVISION/DESCRIPTION A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY CHK (APP) DESCRIPTION AKT JMP CNS AREA CODE AKT JMP CNS ACCOUNT NUMBER AW1982 AKT JMP CNS PROJECT NUMBER AW1982		APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER		REF. DWG(S) SEE REFERENCE BAND. SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER REVISION PNG -C-XXX-0001052 C <small>CNELLOGG/C07</small>	
--	--	---	--	--	--	---	--

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PROFESSIONAL ENGINEER STAMP
 BURNS & MCDONNELL ENGINEERING COMPANY, INC.
 STATE LICENSE # COA, 01557

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**

KELLOGG, OH
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DUK ENERGY
 Piedmont Natural Gas

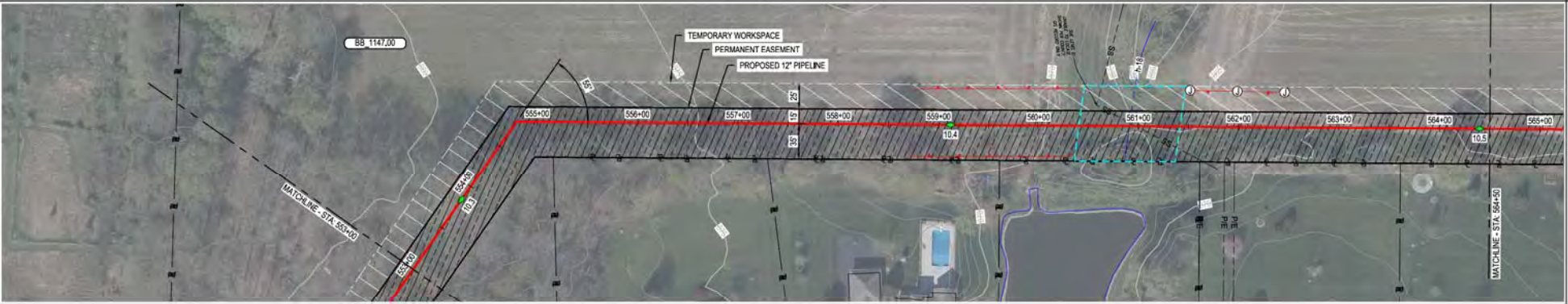
OWNERSHIP	
JURISDICTION	
ACREAGE	
EASEMENTS	
REF. DWG. NO.	

BB 1147.00
LUREYS RUN LTD
BATAVIA TOWNSHIP

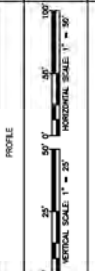
STATIONING



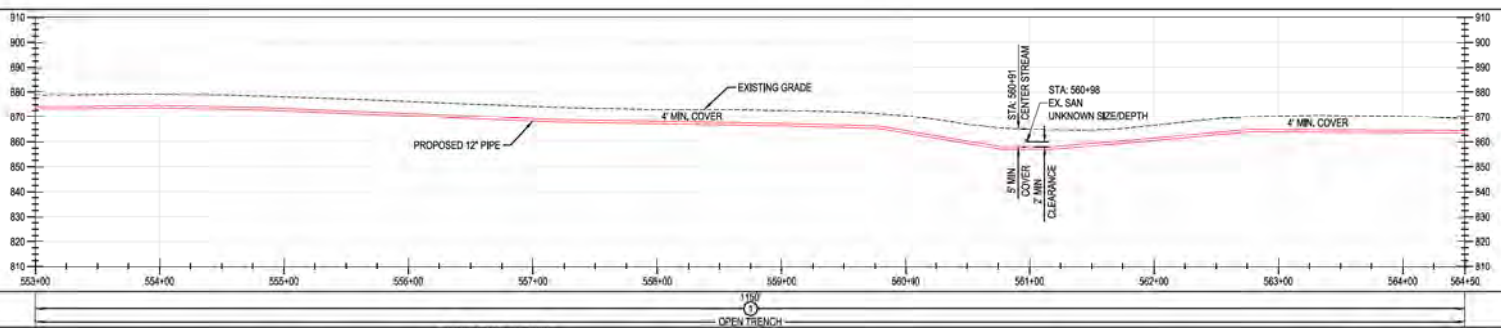
PLAN



PIPE DATA (DUPLICATE STATIONING)	
STA	WELLS # (COUNT)
STA	WELLS # (COUNT)



MATERIAL	
CONSTR. METHOD	
CLASS / MAP	



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STATE LICENSE # 00A, 01557

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REF. DWG(S) SEE REFERENCE BAND.

NO.	DATE	REVISIONS/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION	DATE
AKT	JMP	CNS	AREA CODE	
AKT	JMP	CNS	ACCOUNT NUMBER	AW1082
AKT	JMP	CNS	PROJECT NUMBER	AW1982
			DRAWING BY	AKT
			STATION ID	
			CHECKER INITIALS	AMP

APPROVALS	
REGIONAL ENGINEER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

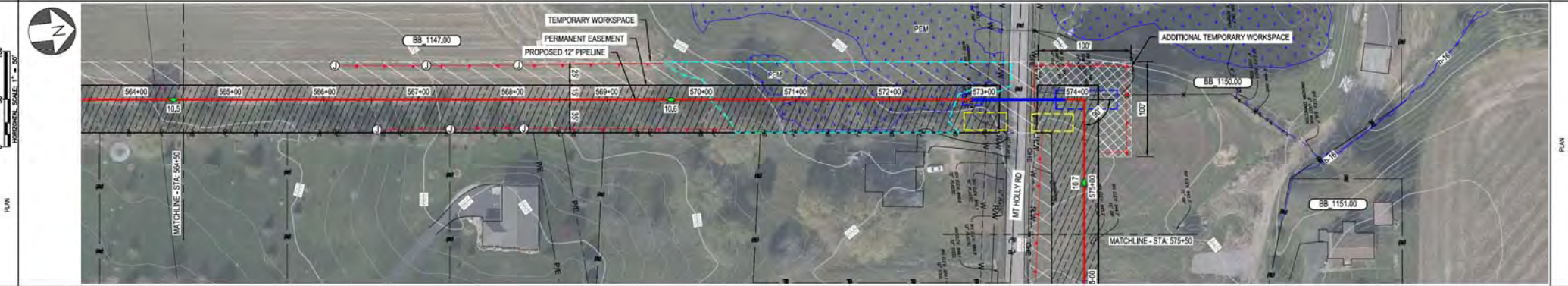
**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
COPYRIGHT 2020

SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001053		
REVISION	C		

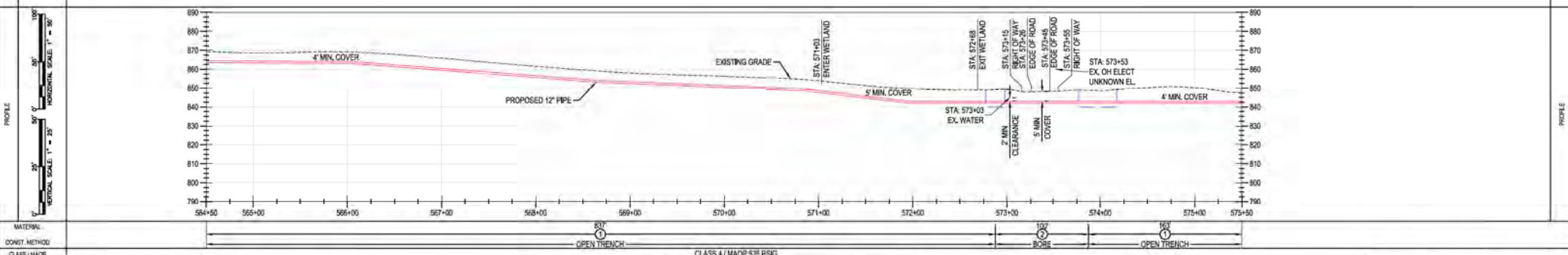
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1147.00	BB 1150.00
	JURISDICTION	ULREYS RUN LTD	JEREMY C & MEGHAN DICK
	ACREAGE	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (DUPLICATE STATIONING)	STA	WELD #	COND	WELD #	COND
	STA	WELD #	COND	STA	WELD #
	STA	WELD #	COND	STA	WELD #
	STA	WELD #	COND	STA	WELD #



MATERIAL: CLASS 4 / MADP 538 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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<p>NO. DATE REVISIONS/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSB</p>	<p>BY CHK (APP) DESCRIPTION</p> <p>AKT JMP CNS AREA CODE</p> <p>AKT JMP CNS ACCOUNT NUMBER AW1982</p> <p>AKT JMP CNS PROJECT NUMBER AW1982</p> <p>DRAWING BY AKT</p> <p>STATION ID</p> <p>CHECKER INITIALS AMP</p>	<p>APPROVALS</p> <p>REGIONAL ENGINEER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>



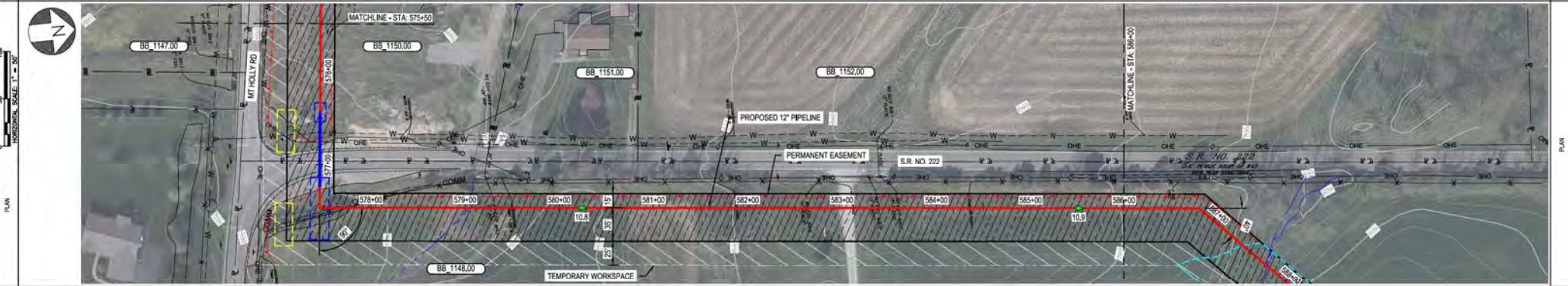
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CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE XXXX/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001054	C
CNKLKLOGG/C367	

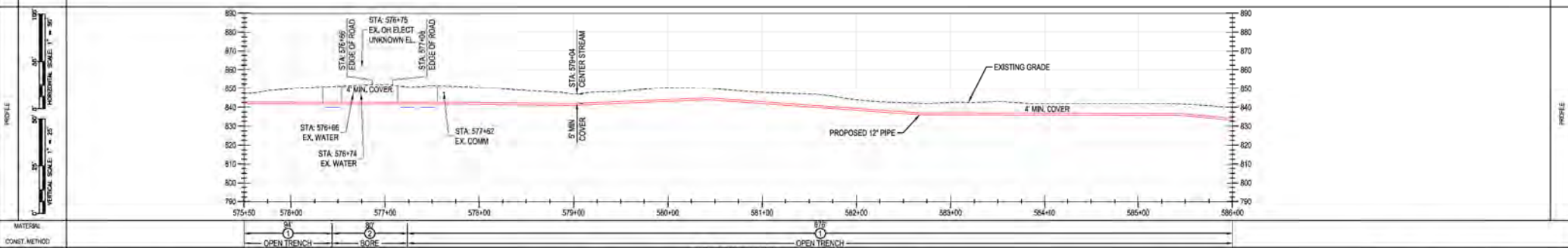
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	BB 1150.00	BB 1148.00
	JURISDICTION	JEREMY C & MEGHAN DICK BATAVIA TOWNSHIP	EDWARD H & DONNA M KLUBA BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	12" DIA. 12" WALL
	WALL #	12" DIA. 12" WALL
	STA.	575+00 TO 586+00
	STA.	575+00 TO 586+00



MATERIAL: CONSTR. METHOD: CLASS / MAOP: CLASS 4 / MAOP 5.35 PSIG

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NCL DATE: 11-06-2020 A: ISSUED FOR 30% REVIEW B: 12-18-2020 C: 02-19-2021 REVISIONS: REVISED 30% DESIGN 60% DESIGN FOR OPSS	SIT: AKT CHK: JMS APPR: JMS AREA CODE: AW1982 ACCOUNT NUMBER: AW1982 PROJECT NUMBER: AW1982 DRAWING BY: AKT STATION ID: CHECKER INITIALS: AMP	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE: XX/XX/2020 SUPERSEDED: DRAWING NUMBER: PNG -C-XXX-0001055 REVISION: C C:\KELLOGG\C367

PROFESSIONAL ENGINEER/STAMP

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO

KELLOGG, OH

DUKE ENERGY | Piedmont Natural Gas

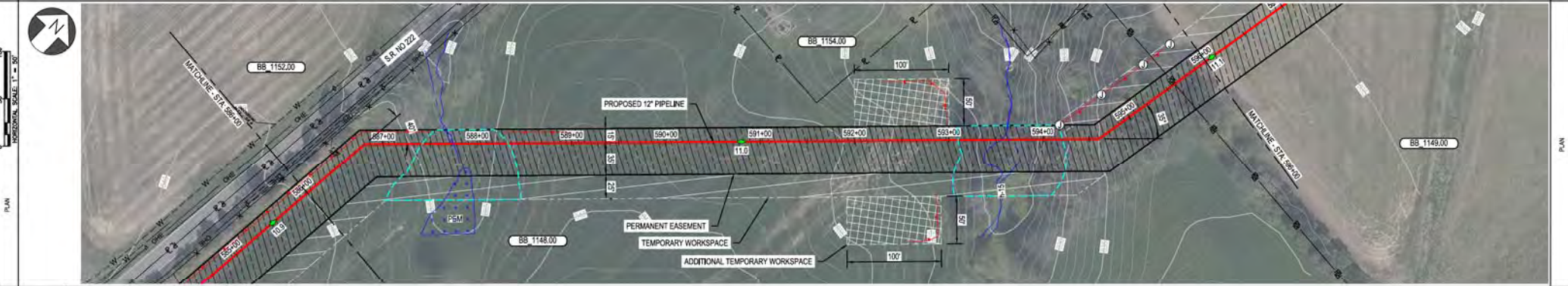
REGIONAL ENGINEER: [Signature]
MGR TECH REC & STD: [Signature]
PRINCIPAL ENGINEER: [Signature]

COPYRIGHT 2020

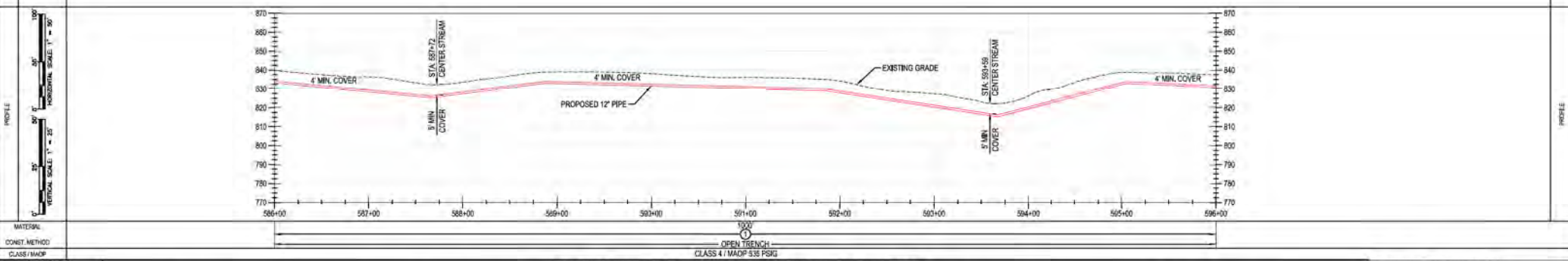
SHEET(S) 1 OF X
 DWG SCALE AS NOTED
 DWG DATE: XX/XX/2020
 SUPERSEDED:
 DRAWING NUMBER: PNG -C-XXX-0001055
 REVISION: C
 C:\KELLOGG\C367

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1148.00 EDWARD H & DONNA M KLUBA BATAVA TOWNSHIP	BB 1149.00 MATTHEW & REBECCA L TUCK BATAVA TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND



MATERIAL: 3000
CONSTR. METHOD: OPEN TRENCH
CLASS / MAMP: CLASS 4 / MAMP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

DUKE ENERGY | Piedmont Natural Gas

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CLERMONT COUNTY, OHIO
KELLOGG, OH

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X | DWG SCALE AS NOTED

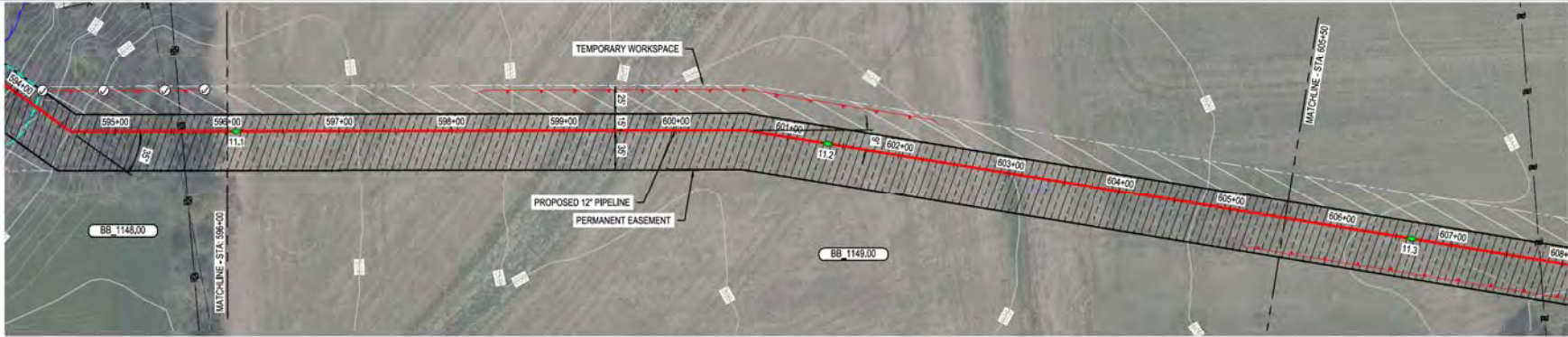
DWG DATE XXXX/2020 SUPERSEDED

DRAWING NUMBER REVISION

PNG -C-XXX-0001056 C

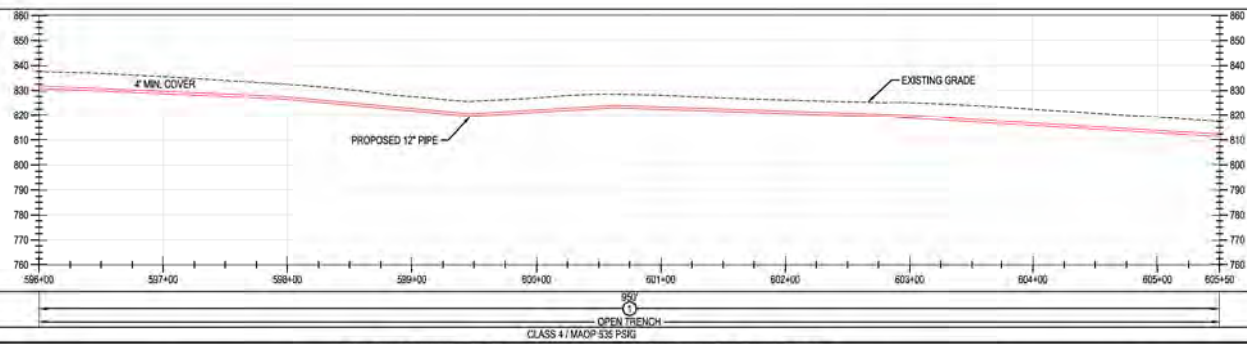
CNELLOGG/C367

BB 1148.00
MATTHEW & REBECCA L TUCK
BATAVIA TOWNSHIP



PIPE DATA (SLOPE STATIONING)

STA	WELL #	COND	DEPTH	WELL #	COND
595+00					
596+00					
597+00					
598+00					
599+00					
600+00					
601+00					
602+00					
603+00					
604+00					
605+00					



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REV	DATE	REVISION/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSS

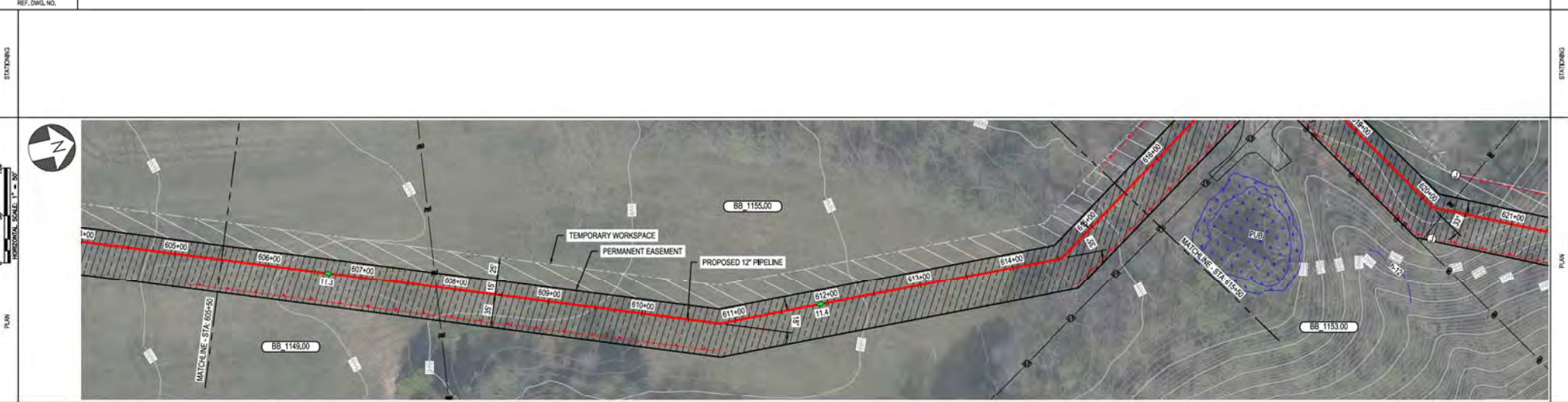
BY	CHK	APPV	DESCRIPTION
AKT	JMP	CNS	AREA CODE
AKT	AMP	CNS	ACCOUNT NUMBER
AKT	AMP	CNS	PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

DATE	INITIALS	APPROVALS
		REGIONAL ENGINEER
		MGR TECH REC & STD
		PRINCIPAL ENGINEER

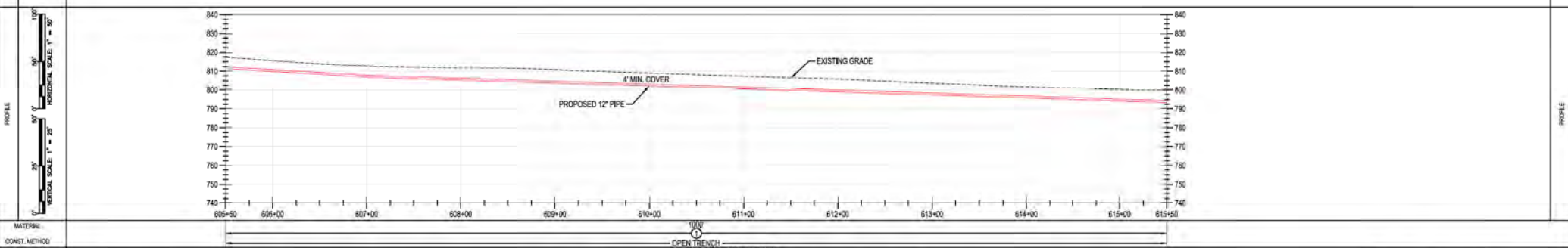
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CLERMONT COUNTY, OHIO**
KELLOGG, OH
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REF, DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XXXX/2020
DRAWING NUMBER	PNG -C-XXX-0001057
REVISION	C

BENCH-MARK STATIONING	OWNERSHIP	BB 1149.00	BB 1155.00
	JURISDICTION	MATTHEW & REBECCA L. TUCK BATAVIA TOWNSHIP	MATTHEW & REBECCA L. TUCK BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			



PIPE DATA (DUPE STATIONING)	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #



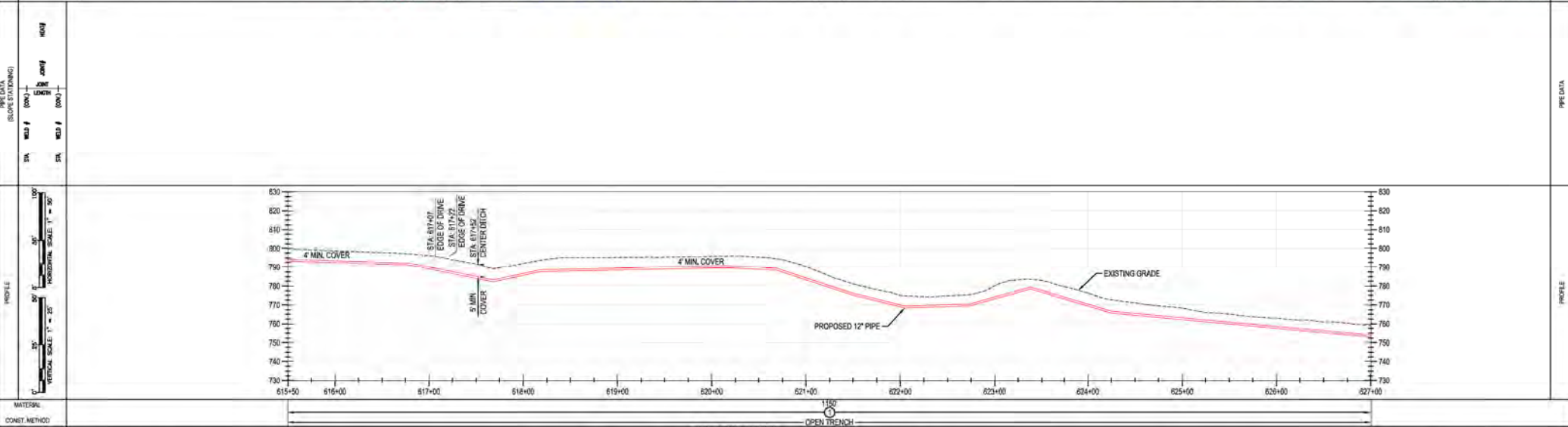
MATERIAL: OPEN TRENCH
CLASS / MAP: CLASS 4 / MADP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY: AKT CHK: JMP DATE:		APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER		REF. DWG(S) SEE REFERENCE BAND. SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001058 REVISION C C:\KELLOGG\C367	
PROJECT NUMBER: AW1982 DRAWING BY: AKT STATION ID: CHECKER INITIALS: AMP		AREA CODE: ACCOUNT NUMBER: PROJECT NUMBER: AW1982 DRAWING BY: AKT		DATE: DATE: DATE:		DUK ENERGY Piedmont Natural Gas KELLLOGG, OH COPYRIGHT 2020	

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BENCH-MARK STATIONING	OWNERSHIP	BB 1155.00	BB 1160.00	BB 1159.00
	JURISDICTION	MATTHEW & REBECCA L TUCK BATAVIA TOWNSHIP	CARROL J ALLEN BATAVIA TOWNSHIP	ELIZABETH & DALE HOWELL BATAVIA TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				



MATERIAL: CLASS 4 / MAMP 535 PSIG
CONSTR. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS/AREA CODE			REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS/ACCOUNT NUMBER	AW1982		MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS/PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

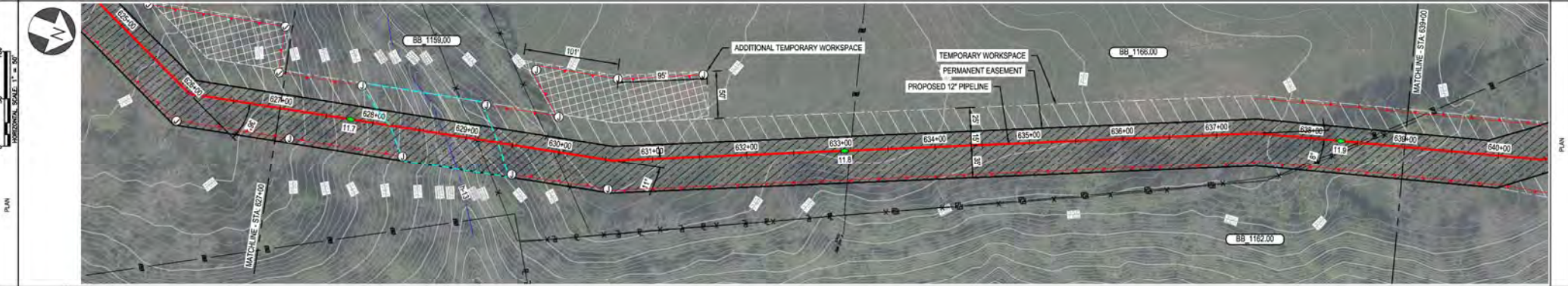
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CLERMONT COUNTY, OHIO
KELLOGG, OH

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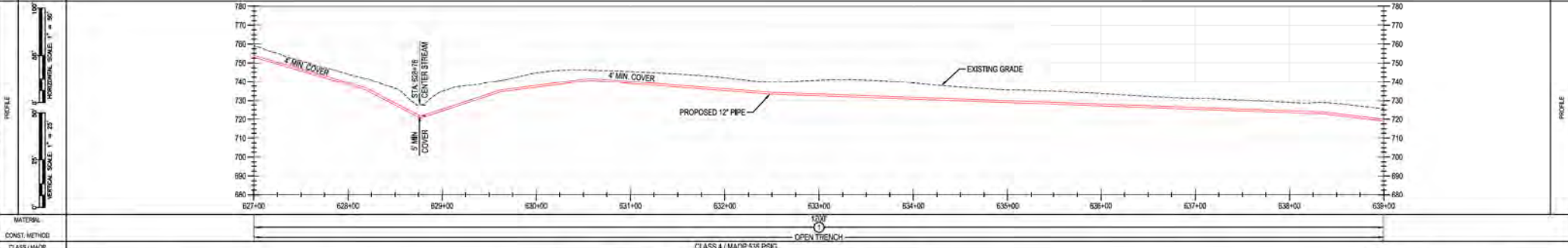
SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED
DRAWING NUMBER PNG - C - XXX - 0011059 REVISION C
CNS/KELLOGG/C367

PROPERTY	OWNERSHIP	BB 1158.00 ELIZABETH & DALE HOWELL BATAVIA TOWNSHIP	BB 1166.00 BARBARA R BRUNER TRUSTEE BATAVIA TOWNSHIP	BB 1162.00 DONALD R & UNGETHUM C F & J E UNGETHUM BATAVIA TOWNSHIP
	JURISDICTION			
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	111.7	111.8	111.9
	WELD #			
	SPK			
	WELD #			



MATERIAL: CLASS / MAOP: CLASS 4 / MAOP 535 PSIG

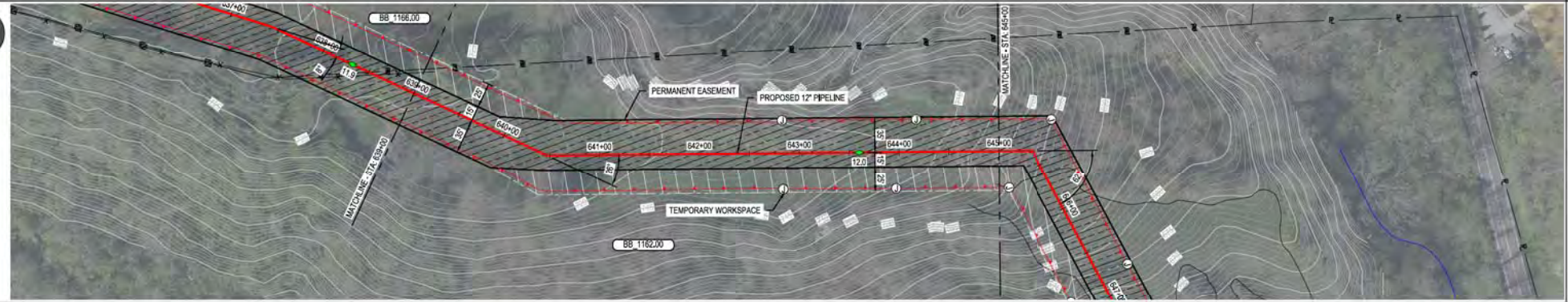
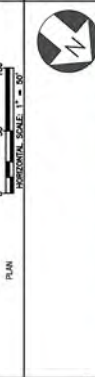
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A 01567

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-16-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		PROJECT INFORMATION ACT AMP CNS ACCOUNT NUMBER AW1982 ACT AMP CNS PROJECT NUMBER AW1982 DRAWING BY AKT STATION ID CHECKER INITIALS AMP		APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER		DUK ENERGY Piedmont Natural Gas COPYRIGHT 2021		C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH		REF. DWG(S) SEE REFERENCE BAND SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX(2020) SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001060 REVISION C CHK: KELLOGG/CMP	
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OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

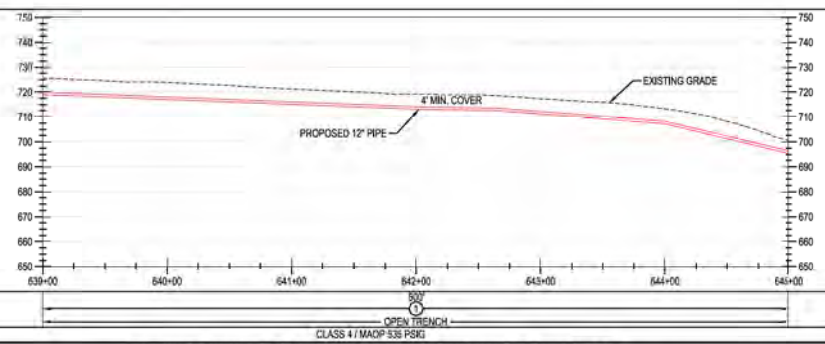
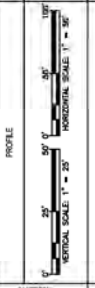
BB 1162.00
DONALD R & UNGETHUEM CF & J E UNGETHUEM
BATAVA TOWNSHIP

STATIONING



PIPE DATA
(SLOPE STATIONING)

STA.	WELL #	COORD.	WELL #	COORD.



MATERIAL:
CONSTR. METHOD:
CLASS / MAOP:

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER AW1982
						DRAWING BY AKT
						STATION ID
						CHECKER INITIALS AMP

APPROVALS	
REGIONAL ENGINEER	DATE
MGR TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

REF. DWG(S)	SEE REFERENCE BAND.
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XXXX/2020
DRAWING NUMBER	PNG -C-XXX-0001061
REVISION	C

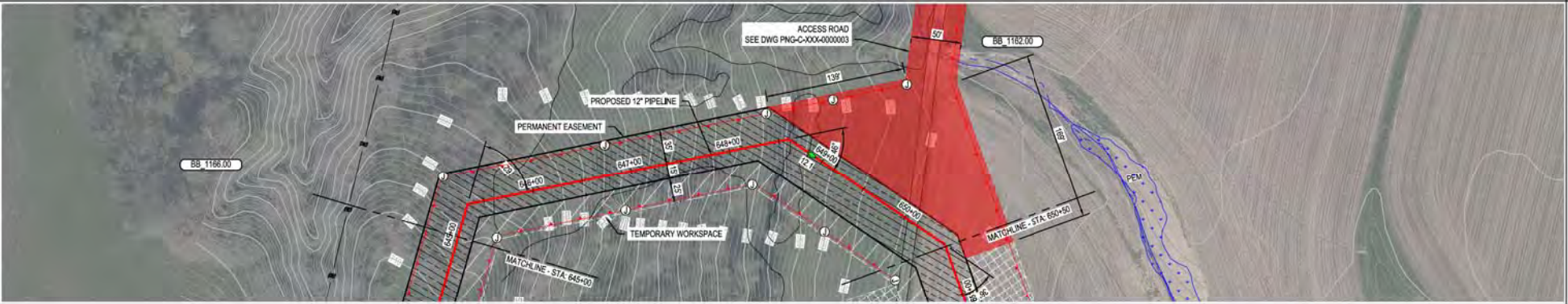
PROFESSIONAL ENGINEER STAMP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

BB 1162.00
DONALD R & UNGETHUEM C F & J E UNGETHUEM
BATAVIA TOWNSHIP

STATIONING

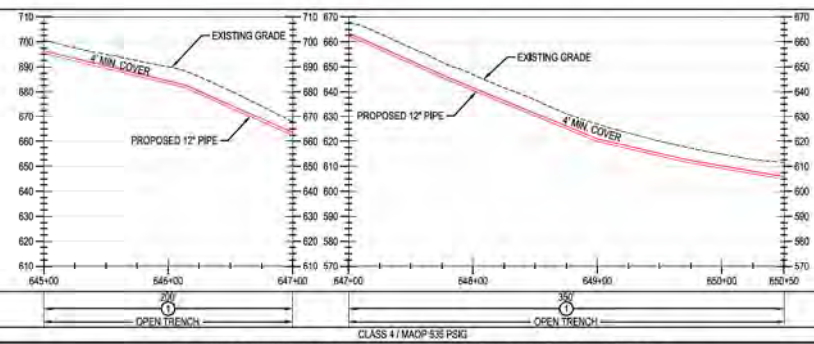
PLAN



PIPE DATA (SLOPE STATIONING)

STA	WELL #	COND	WELL #	COND

PROFILE



MATERIAL
CONSTR. METHOD
CLASS / MAP

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)
*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

NO.	DATE	REVISION/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION	DATE
AKT	JMP	CNS	AREA CODE	
AKT	JMP	CNS	ACCOUNT NUMBER	AW1982
AKT	JMP	CNS	PROJECT NUMBER	AW1982
			DRAWING BY	AKT
			STATION ID	
			CHECKER INITIALS	AMP

APPROVALS	
DATE	INITIALS

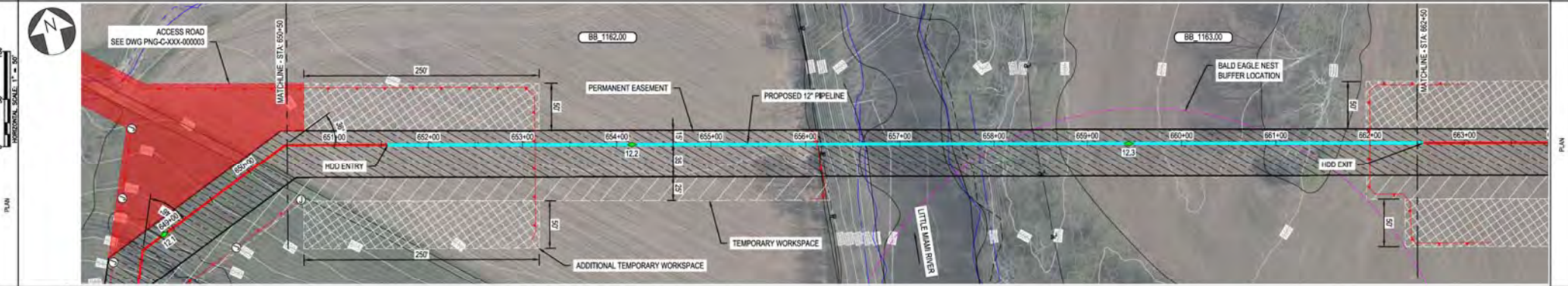
REGIONAL ENGINEER
MGR TECH REC & STD
PRINCIPAL ENGINEER

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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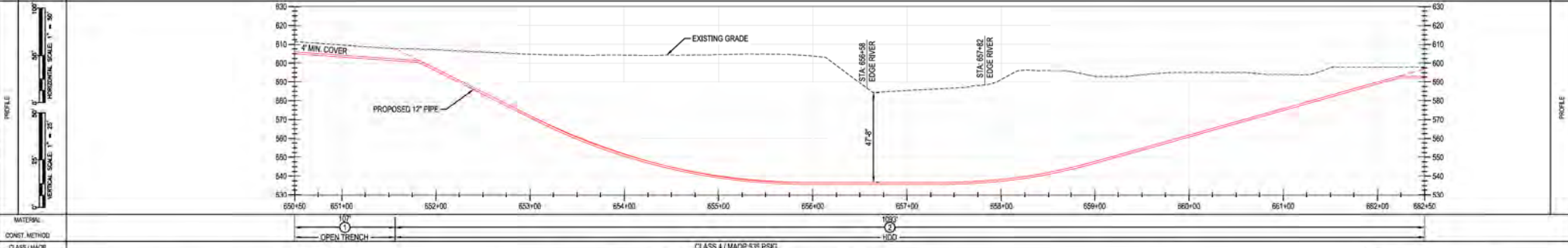
REF. DWG(S)	SEE REFERENCE BAND.
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001062
REVISION	C
CNKLKLOGG/C367	

BENCH-MARK	OWNERSHIP	BB 1162.00	PARCEL GAP	BB 1163.00
	JURISDICTION	DONALD R & UNGETHUEN C F & J E UNGETHUEN	LITTLE MIAM RIVER	CROOKED CROW FARM LLC
	ACREAGE	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (DUPE STATIONING)	STA	WELD #	DUPE
	STA	WELD #	DUPE
	STA	WELD #	DUPE
	STA	WELD #	DUPE



MATERIAL: CLASS 4 / MDDP 535 PSKG

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<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		<p>REF. DWG(S) SEE REFERENCE BAND.</p>	
<p>NO. DATE REVISION/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSB</p>	<p>REV. DATE</p> <p>BY</p> <p>CHK</p> <p>APP'D</p>	<p>DESCRIPTION</p> <p>AREA CODE</p> <p>ACCOUNT NUMBER</p> <p>PROJECT NUMBER</p> <p>DRAWING BY</p> <p>STATION ID</p> <p>CHECKER INITIALS</p>	<p>APPROVALS</p> <p>REGIONAL ENGINEER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>

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KELLOGG, OH

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SHEET(S) 1 OF X DWG SCALE AS NOTED

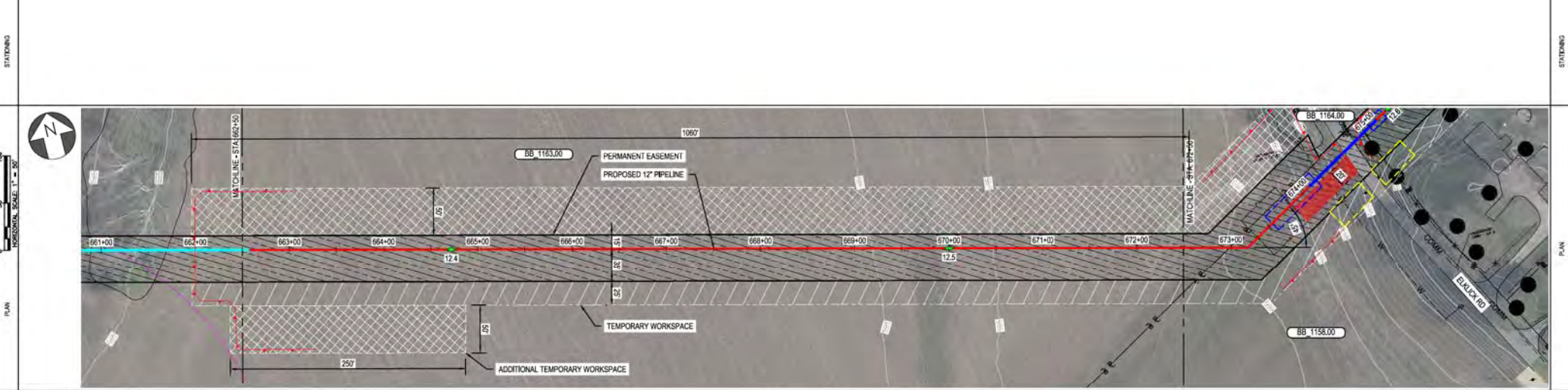
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DRAWING NUMBER PNG - C-XXX-0001063 C

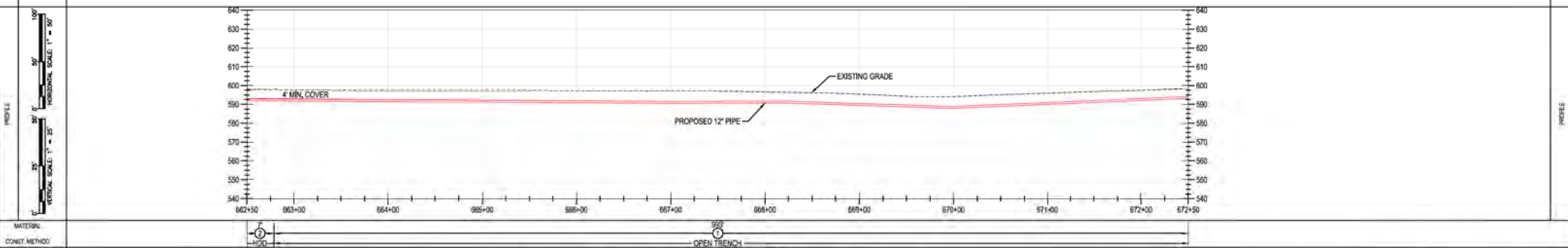
REVISION

CKL/KELLOGG/CK7

OWNERSHIP	BB 1163.00
JURISDICTION	CROOKED CROWN FARM LLC
ACREAGE	BATAVA TOWNSHIP
EASEMENTS	
REF. DWG. NO.	



PIPE DATA (SLOPE STATIONING)	WADY
STA. 662+00	12.4
STA. 663+00	12.5



MATERIAL: OPEN TRENCH CLASS 4 / MADP 5.35 PSIG

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS AREA CODE	-	-	-	-
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS ACCOUNT NUMBER	AW1982	-	-	-
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS PROJECT NUMBER	AW1982	-	-	-
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

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CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

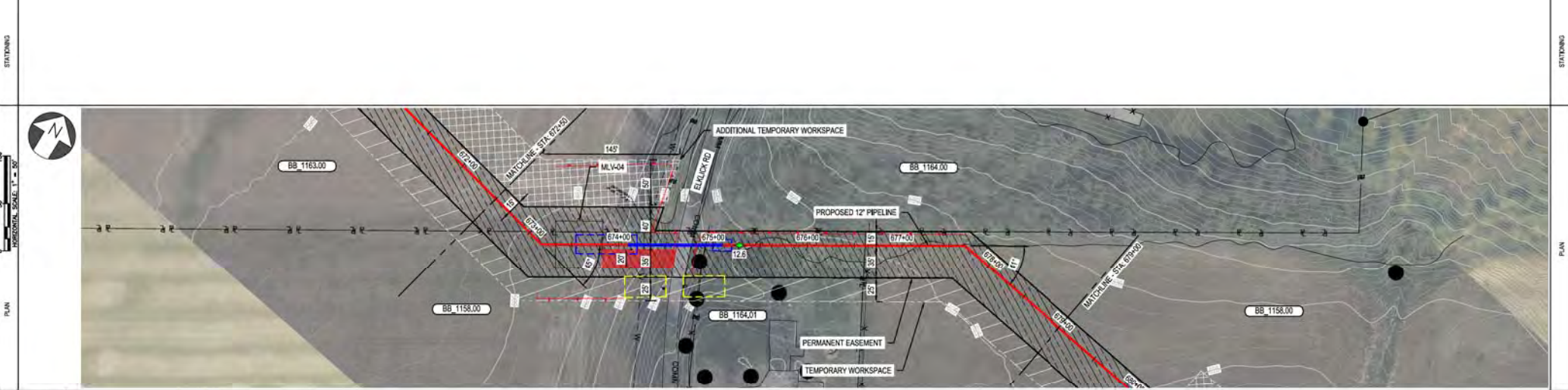
SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2020 SUPERSEDED

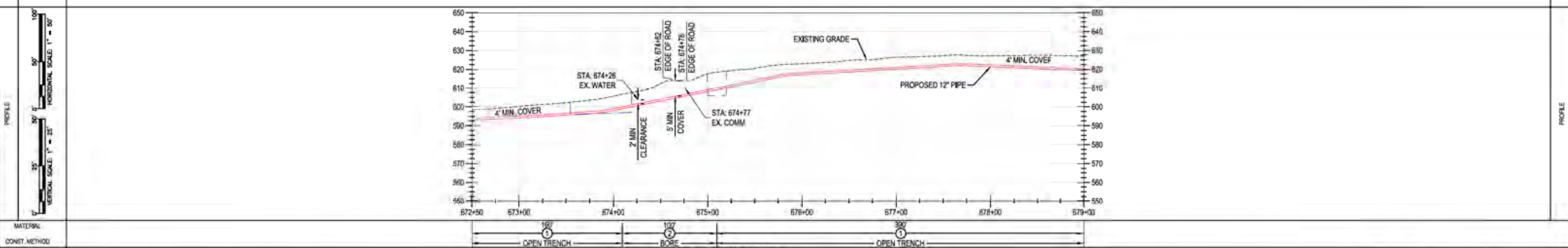
DRAWING NUMBER PNG -C-XXX-0001064 REVISION C

CNSKELLOGG/C367

OWNERSHIP	BB 1163.00 CROOKED CROW FARM LLC BATAVIA TOWNSHIP	BB 1158.00 GLENN C WEAVER BATAVIA TOWNSHIP	BB 1164.01 JEFF WEAVER BATAVIA TOWNSHIP	BB 1158.00 GLENN C WEAVER BATAVIA TOWNSHIP
JURISDICTION				
ACREAGE				
EASEMENTS				
REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	STA	WELL #



MATERIAL: **OPEN TRENCH** (672+50 to 674+00), **PIPE** (674+00 to 677+00), **OPEN TRENCH** (677+00 to 679+00)
 CLASS 4 / MADP 535 PSIG

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REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE XXXX/2020 SUPERSEDED
 DRAWING NUMBER PNG -C-XXX-0001065 REVISION C
 CKSLL00G/C367

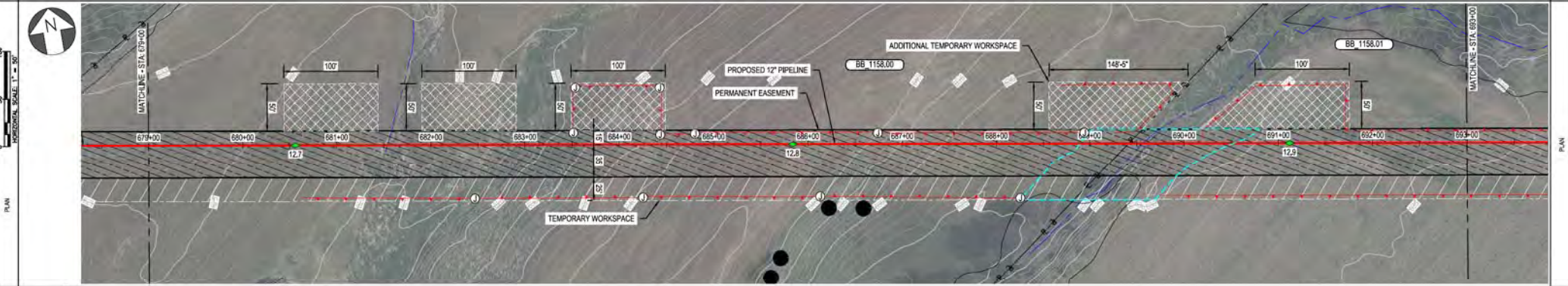
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 KELLLOGG, OH
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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION	DATE	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE		
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982	
C	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	PROJECT NUMBER	AW1982	
		DRAWING BY	AKT					
		STATION ID						
		CHECKER INITIALS	AMP					

REGIONAL ENGINEER: [Signature]
 MGR TECH REC & STD: [Signature]
 PRINCIPAL ENGINEER: [Signature]

BENCH-MARK OWNERSHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1158.00 GLENN C WEAVER BATAVA TOWNSHIP	BB 1158.01 HOUDINI PROPERTIES LLC BATAVA TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA. 679+00 SLOPE 12.7	STA. 681+00 SLOPE 12.7	STA. 683+00 SLOPE 12.8	STA. 685+00 SLOPE 12.8	STA. 687+00 SLOPE 12.9	STA. 689+00 SLOPE 12.9	STA. 691+00 SLOPE 12.9	STA. 693+00 SLOPE 12.9
---------------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------	---------------------------

MATERIAL: CLASS 4 / MDDP 5.35 PSIG
CONSTR. METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2020 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001066 REVISION C

CKE/KLOGG/CW7

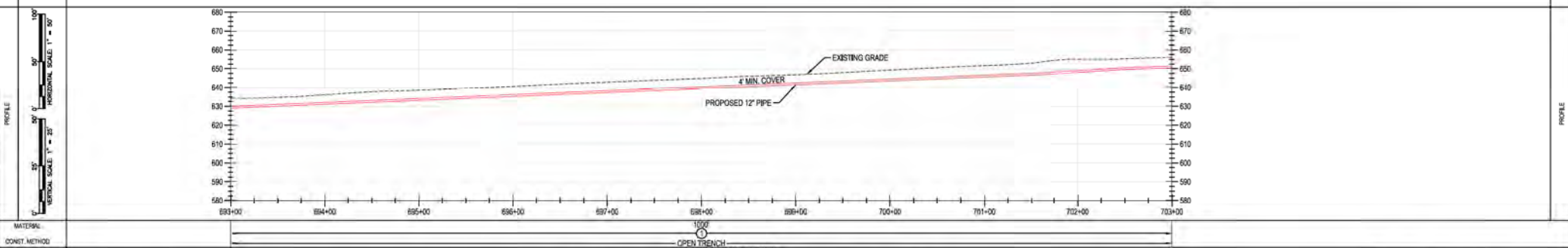
NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		GR. TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

BRIEF OF AWAY	OWNERSHIP	BB 1158.01	BB 1153.02
	JURISDICTION	HOLDINI PROPERTIES LLC BATAVIA TOWNSHIP	RICHARD P FOX TRUSTEE BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (DUPLICATE STATIONING)	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND
	STA	WELLS #	COND	DEPTH	WELL #	COND



MATERIAL: 12\"/>

CONSTR. METHOD: OPEN TRENCH
CLASS / MAOP: CLASS 4 / MAOP 5.35 PSIG

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE				
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982			
C	02-19-2021	60% DESIGN FOR OPSB	AKT	JMP	CNS	PROJECT NUMBER	AW1982			
DRAWING BY			AKT		DATE					
STATION ID					DATE					
CHECKER INITIALS			AMP		DATE					

PROFESSIONAL ENGINEER STAMP

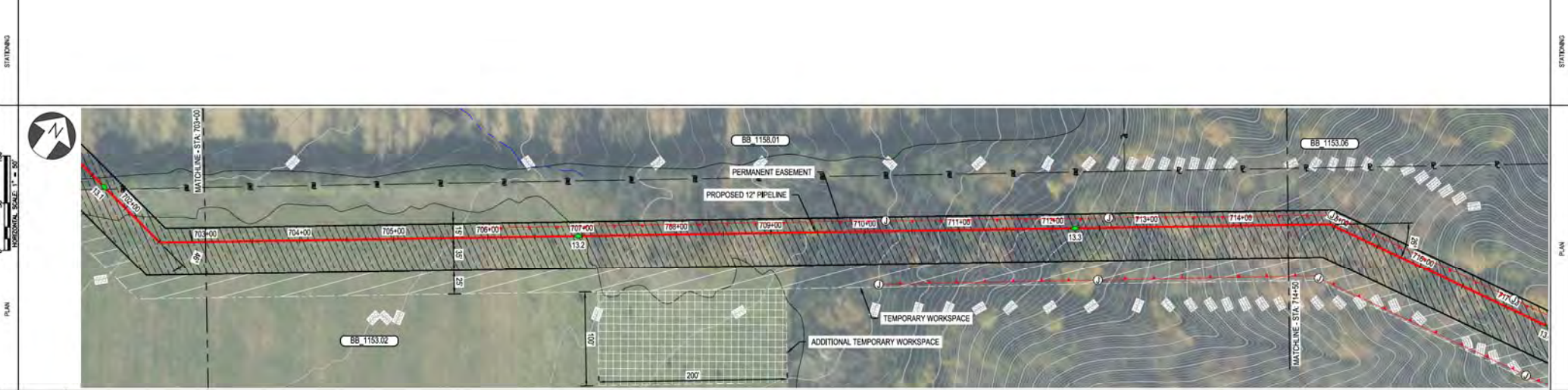
REF. DWG(S)	SEE REFERENCE BAND.
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020
SUPERSEDED	
DRAWING NUMBER	
REVISION	
PNG -C-XXX-0001067	C
CNKL00000000	

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ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

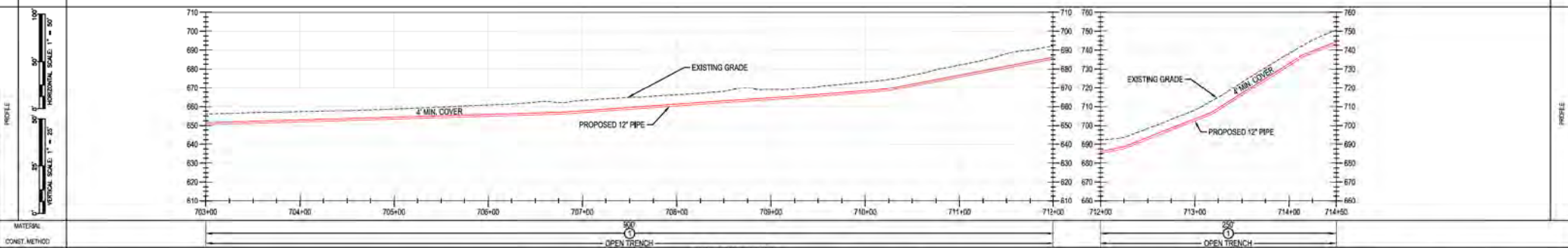


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OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1153.02
	RICHARD P FOX TRUSTEE
	BATAVIA TOWNSHIP



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	DATE	WELL #	COND	DATE



MATERIAL:	OPEN TRENCH	CLASS 4 / MDDP 535 PSIG
CONSTR. METHOD:		
CLASS / MDDP:		

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982		
		DRAWING BY	AKT						
		STATION ID							
		CHECKER INITIALS	AMP						

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

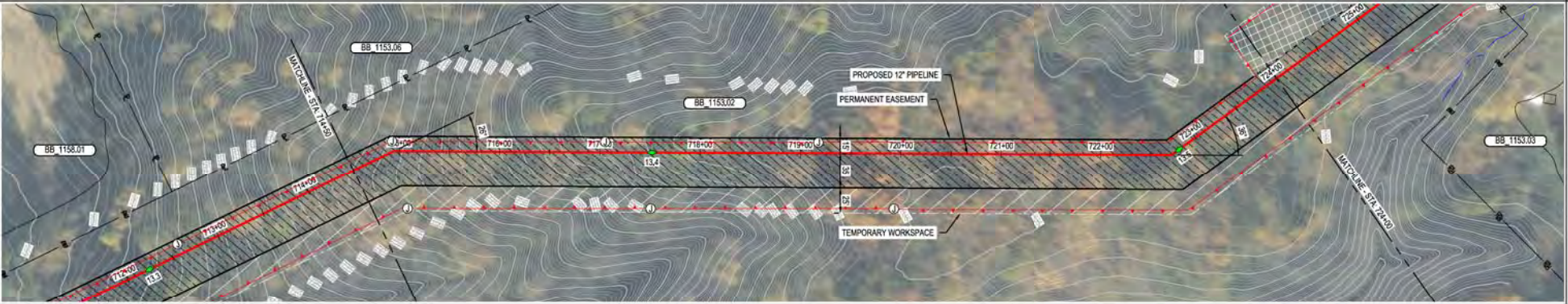
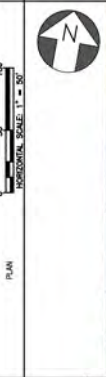
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REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020
SUPERSEDED	
DRAWING NUMBER	
REVISION	
PNG -C-XXX-0001068	C
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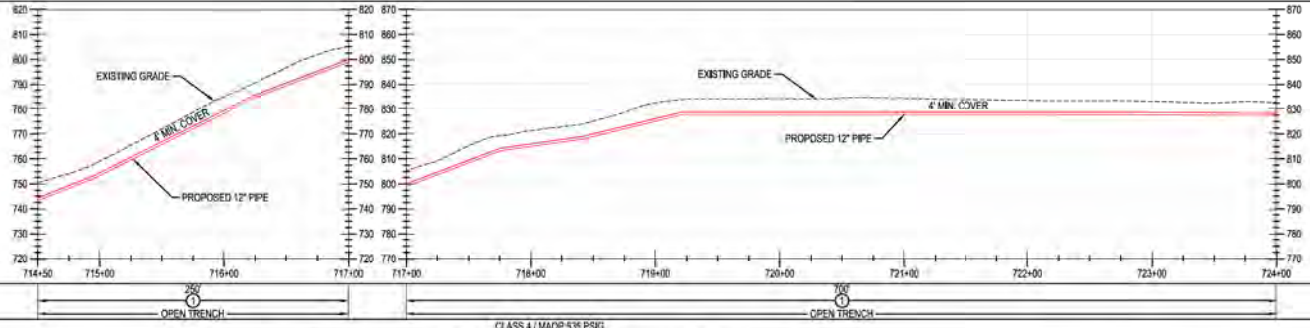
BB 1153.02
 RICHARD P FOX TRUSTEE
 BATAVA TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

STATIONING



PIPE DATA
 (SLOPE STATIONING)
 STA. WELLS # (SLOPE)
 STA. WELLS # (SLOPE)



MATERIAL
 CONST. METHOD
 CLASS / MAMP

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1982	-	MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
						DRAWING BY	AKT		
						STATION ID			
						CHECKER INITIALS	AMP		

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	XX/XX/2020
SUPERSEDED	
DRAWING NUMBER	
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PNG -C-XXX-0001069	C
CNS/KELLOGG/CW	

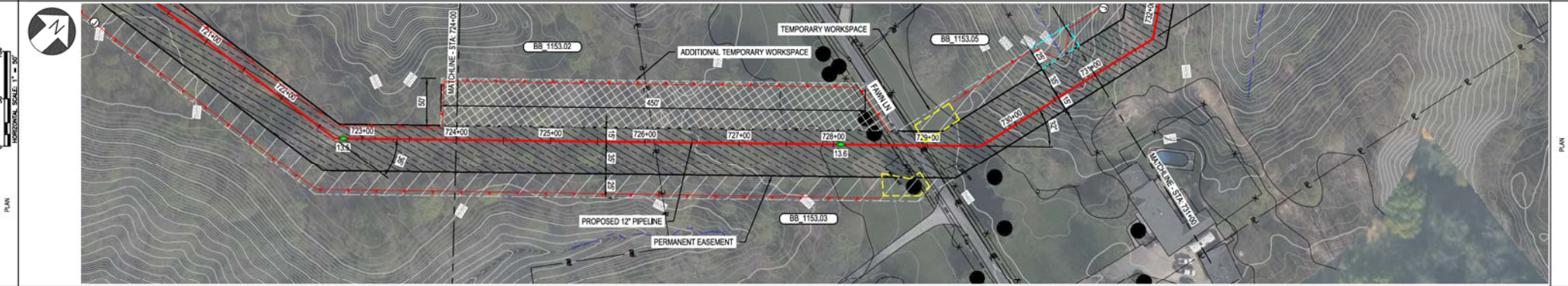
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 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
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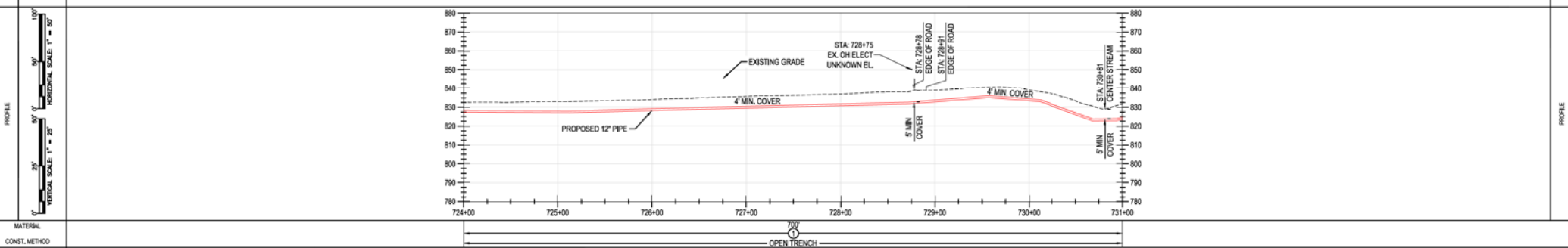
BURNS & MCDONNELL
 ENGINEERING COMPANY, INC.
 STATE LICENSE # OCA, 01597

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1153.02 RICHARD P FOX TRUSTEE BATAVA TOWNSHIP	BB 1153.03 MONTGOMERY L & MITZY SHEPHERD BATAVA TOWNSHIP	BB 1153.05 JORDAN K & KAYLA M BOSWELL BATAVA TOWNSHIP

STATIONING			
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PIPE DATA (SLOPE STATIONING)			
STA. WELLS # (CON)		STA. WELLS # (CON)	
STA. WELLS # (CON)		STA. WELLS # (CON)	



MATERIAL	
CONST. METHOD	
CLASS / MAOP	CLASS 4 / MAOP 535 PSIG

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2020 SUPERSEDED

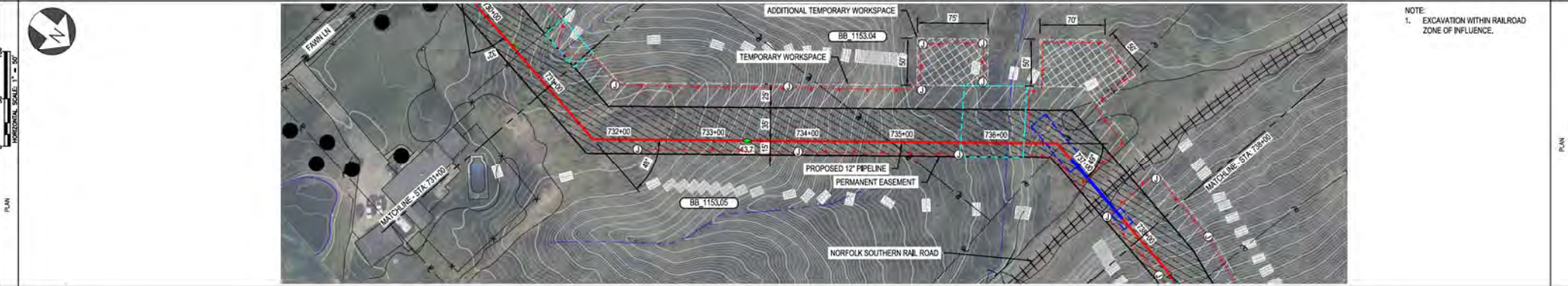
DRAWING NUMBER PNG -C-XXX-0001070 REVISION C

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH

NO.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPR	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	AKT	JMP	CNS	AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	PROJECT NUMBER	AW1982		
						DRAWING BY	AKT		
						STATION ID			
						CHECKER INITIALS	AMP		

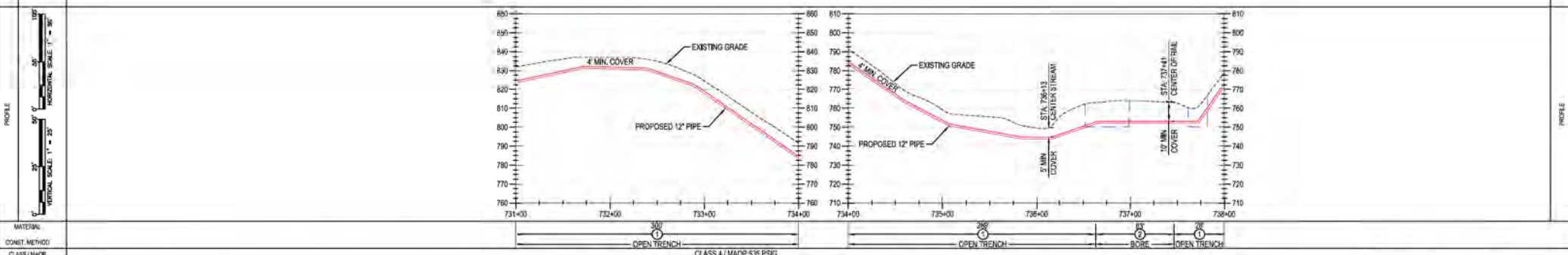
BDDG/OWNER	OWNERSHIP	BB 1153.05	BB 1153.04	RAIL
	JURISDICTION	JORDAN K & KAYLA M BOSWELL BATAVIA TOWNSHIP	CHRIS DENISE BREWER BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
	ACREAGE			
	EASEMENTS			
	REF. DWG. NO.			

STATIONING



NOTE
1. EXCAVATION WITHIN RAILROAD
ZONE OF INFLUENCE.

PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND



MATERIAL: CLASS 4 / MADO 535 PSIG

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REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	DESCRIPTION AKT JMP CNS AREA CODE AKT JMP CNS PROJECT NUMBER AKT JMP CNS PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XXXX/2020 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001071		REVISION C		

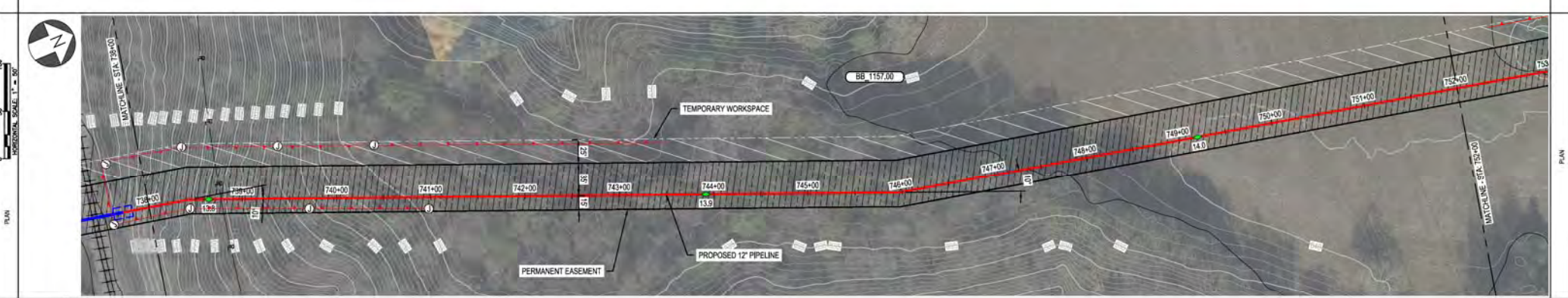
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 KELLOGG, OH
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DUK ENERGY
 Piedmont Natural Gas

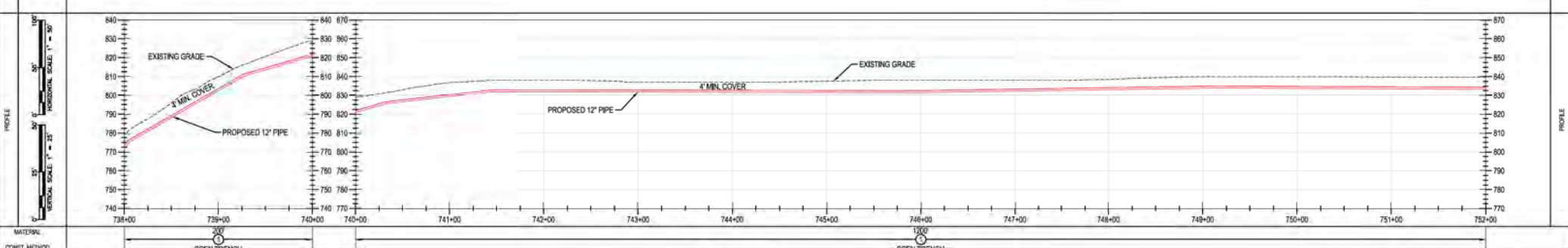
PROFESSIONAL ENGINEER STAMP

BENCH-MARK	OWNERSHIP	RAIL	BB 1157.00 SUMMIT ROAD FARM LLC BATAVIA TOWNSHIP
	JURISDICTION	BATAVIA TOWNSHIP	
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	WELD #	COND.
	STA.	WELD #	COND.	WELD #	COND.



MATERIAL	24\"/>
CONSTR. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 5.33 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01557

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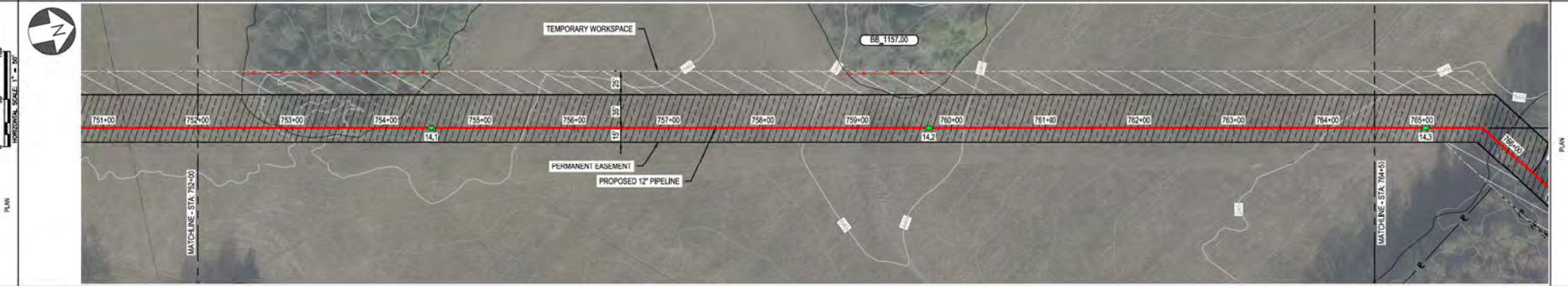
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REF. DWG(S) SEE REFERENCE BAND.

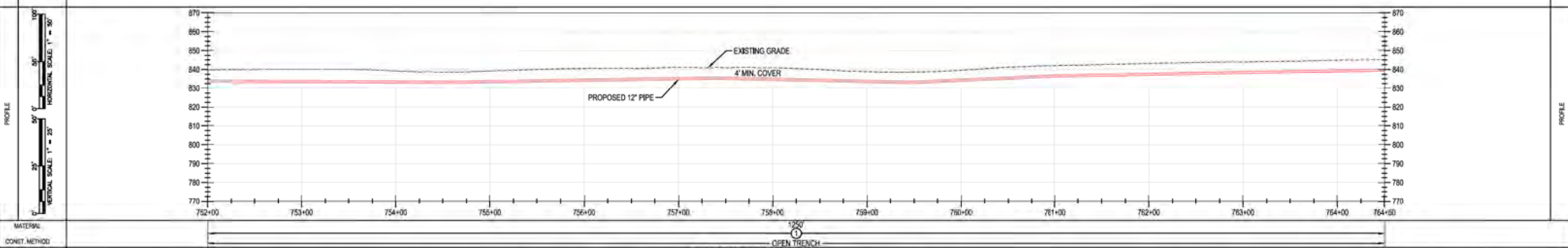
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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS																																																																																									
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REVISION	C																																																																																																	

OWNERSHIP	BB 1157.00
JURISDICTION	SUMMIT ROAD FARM LLC
ACREAGE	BATAVA TOWNSHIP
EASEMENTS	
REF. DWG. NO.	

STATIONING	
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PIPE DATA (SLOPE STATIONING)	
STA.	752+00
WELD #	0000
DATE	
STA.	752+00
WELD #	0000
DATE	



MATERIAL: CLASS 4 / MAOP 535 PSIG

CONVET. METHOD: OPEN TRENCH

CLASS 4 / MAOP 535 PSIG

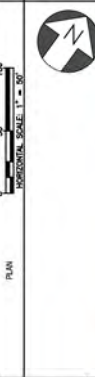
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NO. DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	REVISIONS DESCRIPTION BY CHK (APPV) AKT JMP CNS AREA CODE AKT JMP CNS ACCOUNT NUMBER AW1982 AKT JMP CNS PROJECT NUMBER AW1982 DRAWING BY AKT STATION ID CHECKER INITIALS AMP	APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	DUK ENERGY Piedmont Natural Gas COPYRIGHT 2021	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE XX/XX/2021 SUPERSEDED DRAWING NUMBER PNG -C-XXX-0001073 C REVISION C CNEKLL0001073	

PROFESSIONAL ENGINEER STAMP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

BB 1157.00
SUMMIT ROAD FARM LLC
BATAVIA TOWNSHIP

STATIONING



PIPE DATA (DUPLICATE STATIONING)

STA.	WELD #	COND.	WELD #	COND.
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765+00		COND.		COND.
766+00		COND.		COND.
767+00		COND.		COND.
768+00		COND.		COND.
769+00		COND.		COND.
770+00		COND.		COND.
771+00		COND.		COND.
772+00		COND.		COND.
773+00		COND.		COND.
774+00		COND.		COND.
775+00		COND.		COND.
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MATERIAL:
CONVET. METHOD:
CLASS / MAP:

CLASS 4 / MADP 535 PSIG
OPEN TRENCH

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ENGINEERING COMPANY, INC.
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REF. DWG(S) SEE REFERENCE BAND.

REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
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B	12-18-2020	REVISED 30% DESIGN	AKT	JMP	CNS	ACCOUNT NUMBER	AW1082	
C	02-19-2021	60% DESIGN FOR OPSS	AKT	JMP	CNS	PROJECT NUMBER	AW1982	
						DRAWING BY	AKT	
						STATION ID		
						CHECKER INITIALS	AMP	

APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	

PRINCIPAL ENGINEER

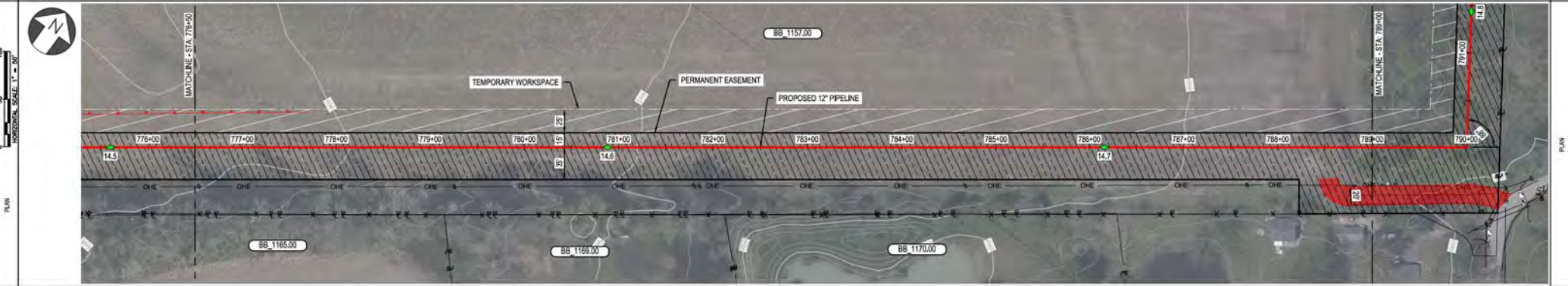


**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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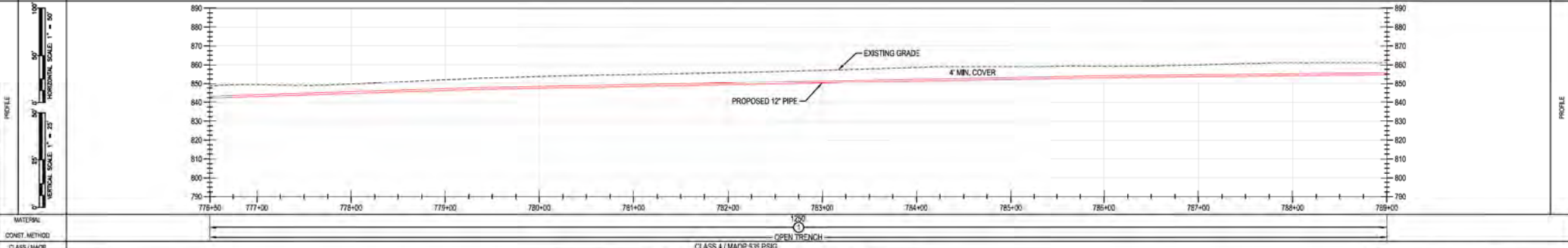
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DWG DATE XX/XX/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001074	C
CNKLK00G/C367	

RIGHT-OF-WAY	OWNERSHIP	BB 1157.00
	JURISDICTION	SUMMIT ROAD FARM LLC BATAVIA TOWNSHIP
	ACREAGE	
	EASEMENTS	
REF. DWG. NO.		

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #
	STA	WELLS #	COND	STA	WELLS #



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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	APPROVALS
A	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	AREA CODE	
E	02-10-2021	90% DESIGN FOR OPSE	AKT	AMP	CNS	ACCOUNT NUMBER	
						PROJECT NUMBER	
						DRAWING BY	
						STATION ID	
						CHECKER INITIALS	

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

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C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2021 SUPERSEDED

DRAWING NUMBER: PNG -C-XXX-0001075

REVISION: B

CNS/KELLOGG/CNS

PROFESSIONAL ENGINEER STAMP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

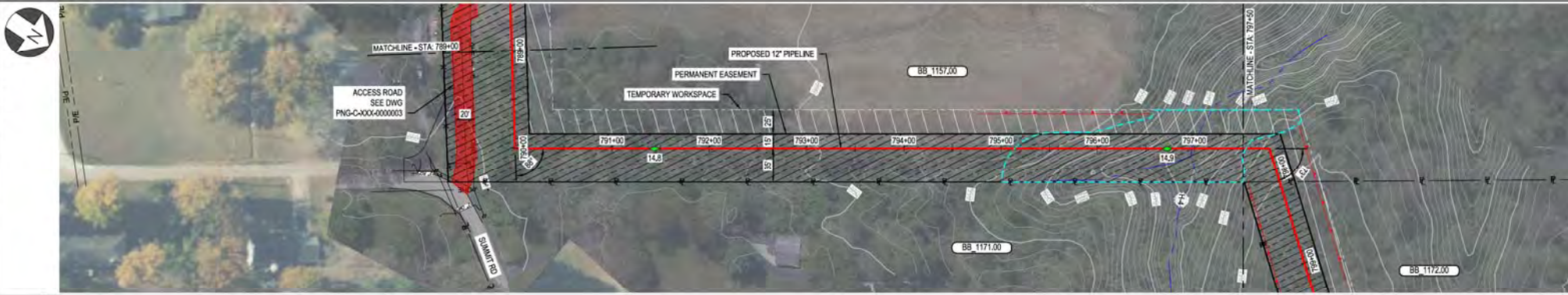
BB 1157.00
SUMMIT ROAD FARM LLC
BATAVIA TOWNSHIP

STATIONING

STATIONING

PLAN

PLAN

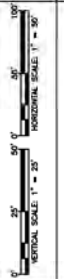


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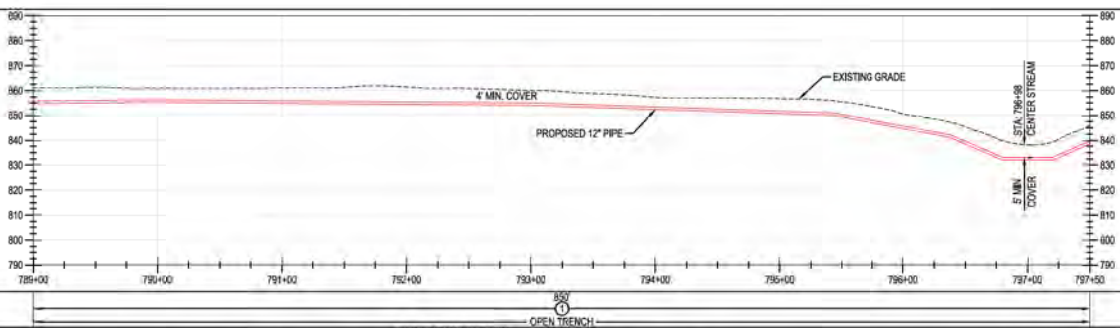
PIPE DATA (DUPLICATE STATIONING)	
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792+00	0000
793+00	0000
794+00	0000
795+00	0000
796+00	0000
797+00	0000
797+50	0000

PIPE DATA

PROFILE



PROFILE



MATERIAL:
CONSTR. METHOD:
CLASS / MAOP

CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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REF. DWG(S) SEE REFERENCE BAND.

NO.	DATE	REVISION/DESCRIPTION
A	12-18-2020	REVISED 30% DESIGN
E	10-10-2021	90% DESIGN FOR OPSE

BY	CHK	APPV	DESCRIPTION
AKT	AMP	CNS	AREA CODE
AKT	AMP	CNS	ACCOUNT NUMBER
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

DATE	INITIALS	APPROVALS

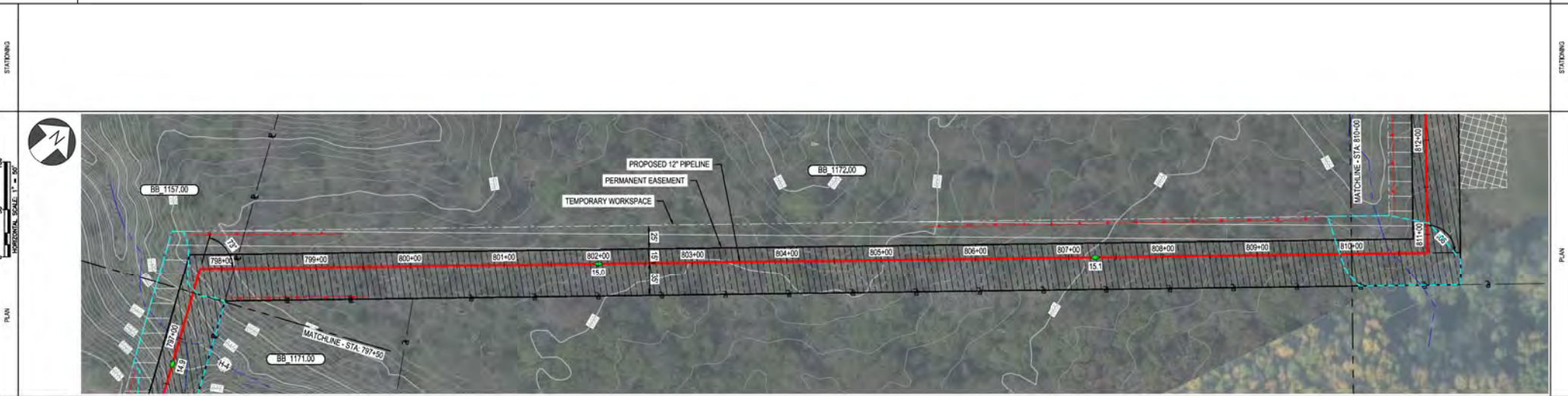
REGIONAL ENGINEER	MGR TECH REC & STD	PRINCIPAL ENGINEER

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**

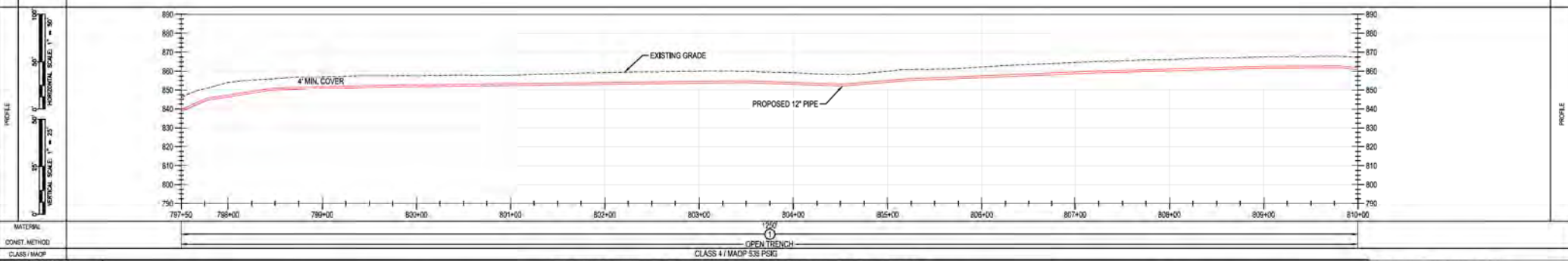
KELLOGG, OH
COPYRIGHT 2009

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE XXXX/2020 SUPERSEDED	
DRAWING NUMBER	REVISION
PNG -C-XXX-001076	B

BENCH-MARK STATIONING	OWNERSHIP	BB 1157.00	BB 1172.00
	JURISDICTION	SUMMIT ROAD FARM LLC BATAVIA TOWNSHIP	SUSAN E URBAN & JAN M URBAN BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			



PIPE DATA (SLOPE STATIONING)	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	WELLS #	COND
	STA	WELLS #	COND	WELLS #	COND



MATERIAL: CLASS 4 / MADO 535 PSIG
CONCRETE METHOD: OPEN TRENCH

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
A	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	AREA CODE		
E	10-10-2021	90% DESIGN FOR OPSE	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982	
						PROJECT NUMBER	AW1982	
						DRAWING BY	AKT	
						STATION ID		
						CHECKER INITIALS	AMP	

REGIONAL MANAGER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE XXXX/2021 SUPERSEDED

DRAWING NUMBER PNG -C-XXX-0001077 REVISION B

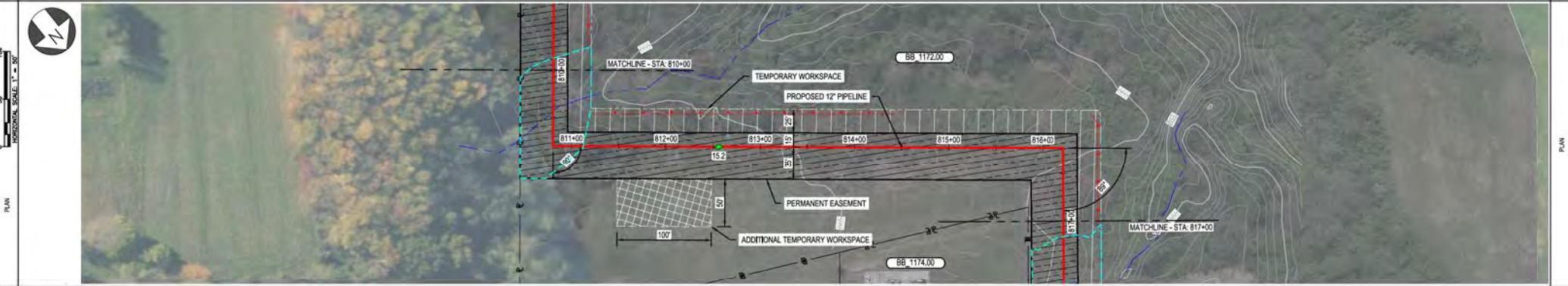
CKEILLOGG/C367

PROFESSIONAL ENGINEER STAMP

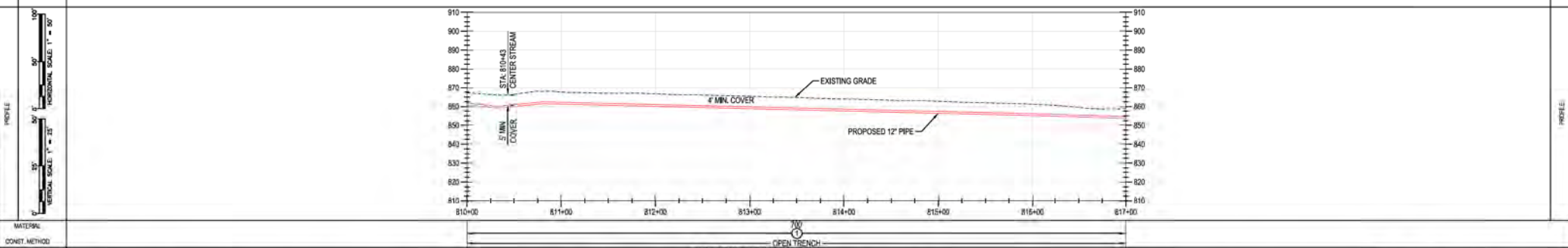
COPYRIGHT 2021

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1172.00	
	SUSAN E URBAN & JAN M URBAN BATAVIA TOWNSHIP	

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL:	CLASS 4 / MDDP 5.35 PSIG
CONVET. METHOD:	OPEN TRENCH
CLASS / MAP:	

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

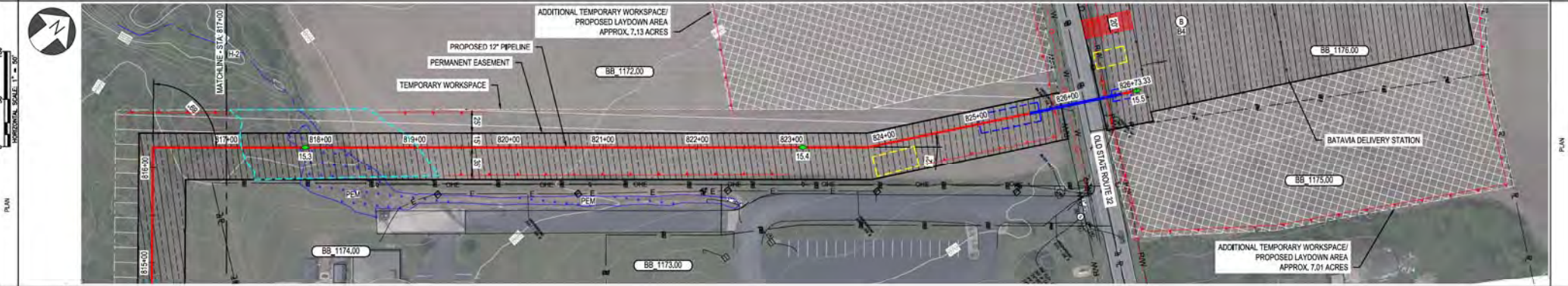
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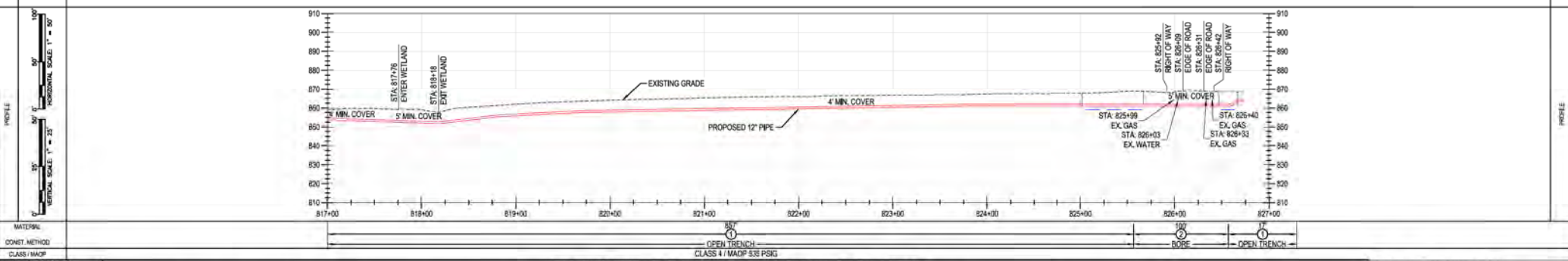
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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	APPROVALS																																																						
A	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	AREA CODE																																																							
E	12-10-2021	90% DESIGN FOR OPSE	AKT	AMP	CNS	ACCOUNT NUMBER																																																							
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DRAWING NUMBER																																																													
REVISION																																																													
PNG -C-XXX-0001078	B																																																												
CNS110000000																																																													

BENCH-MARK	OWNERSHIP	BB 1172.00	R/W	BB 1176.00
	JURISDICTION	SUSAN E URBAN & JAN M URBAN BATAVA TOWNSHIP	BATAVA TOWNSHIP	WEDGE DEVELOPMENT INC BATAVA TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	815+00	816+00	817+00	818+00	819+00	820+00	821+00	822+00	823+00	824+00	825+00	826+00	827+00
	WELL #													
	WELL #													
	WELL #													



MATERIAL	CLASS / MAP
CONVET. METHOD	
	OPEN TRENCH CLASS 4 / MADP 538 PSKG
	BORE
	OPEN TRENCH

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	APPROVALS
A	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	AREA CODE	
E	12-10-2021	90% DESIGN FOR OPS/E	AKT	AMP	CNS	ACCOUNT NUMBER	
						PROJECT NUMBER	AW1982
						DRAWING BY	AKT
						STATION ID	
						CHECKER INITIALS	AMP

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND.

SHEET(S) 1 OF X DWG SCALE AS NOTED

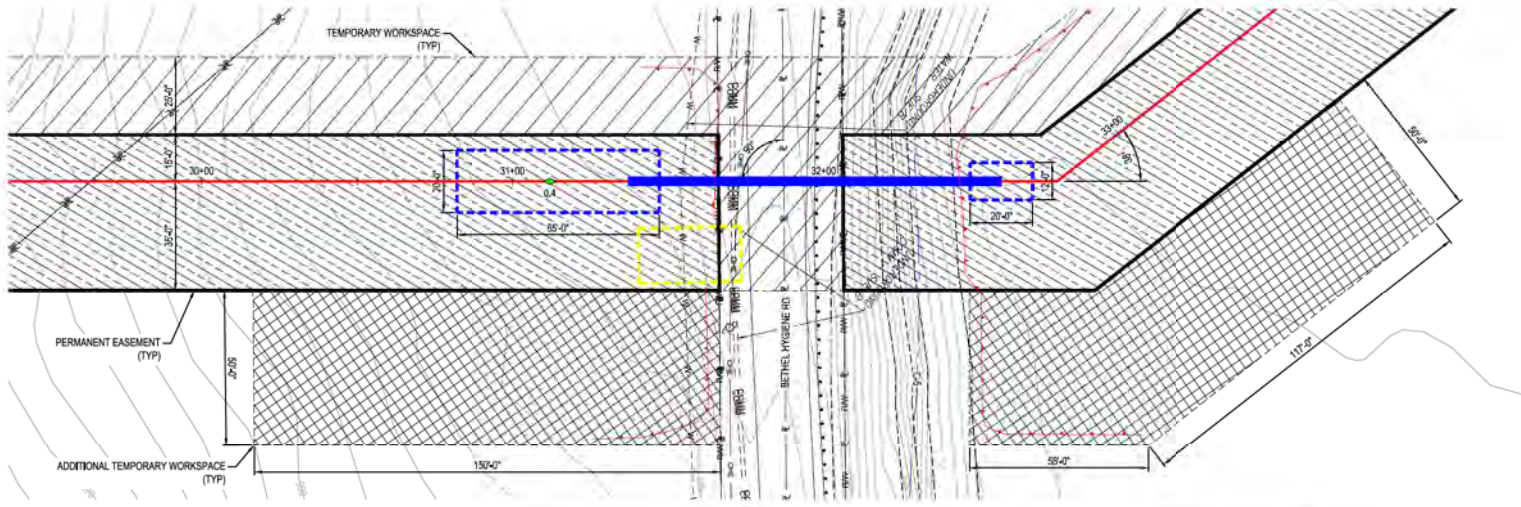
DWG DATE XXXX/2020 SUPERSEDED

DRAWING NUMBER: PNG -C-XXX-0001079

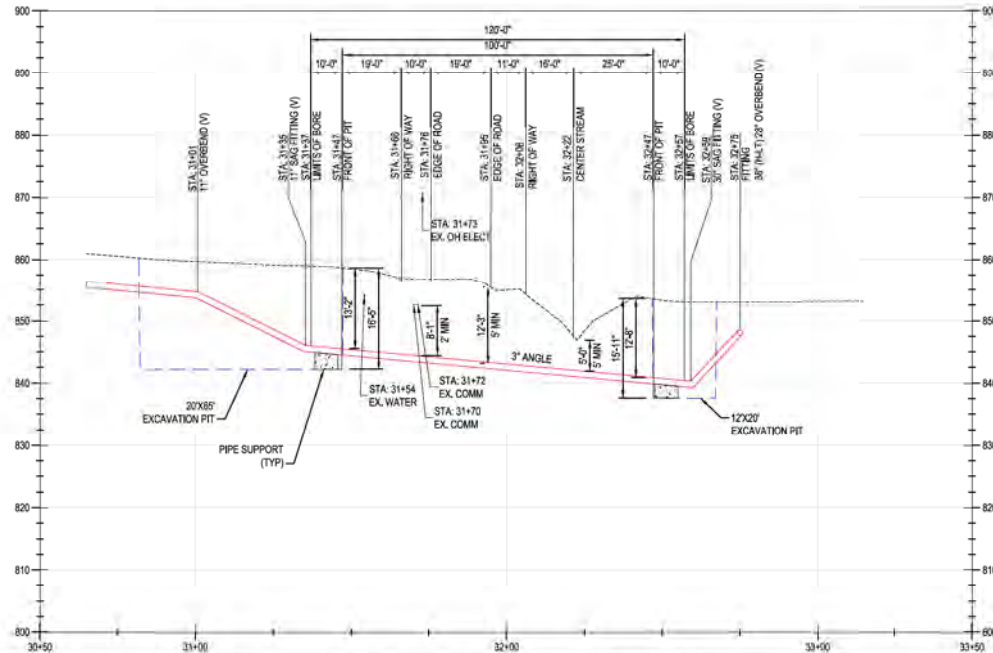
REVISION: B

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



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ENGINEERING COMPANY, INC.
STATE LICENSE # COA. 01597

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REF. DWG(S) PNG-G-XXX-0001000

REV.	DATE	REVISION/DESCRIPTION	BY	CHK.	APPV.
A	02-19-2021	80% DESIGN FOR OPS&B	AKT	AMP	CNS

DESCRIPTION	DATE	INITIALS
AREA CODE		
ACCOUNT NUMBER	AW1062	
PROJECT NUMBER	AW1982	
DRAWING BY	AKT	
STATION ID		
CHECKER INITIALS	AMP	

APPROVALS	REGIONAL MANAGER
MGR. TECH. REC. & STD.	
PRINCIPAL ENGINEER	

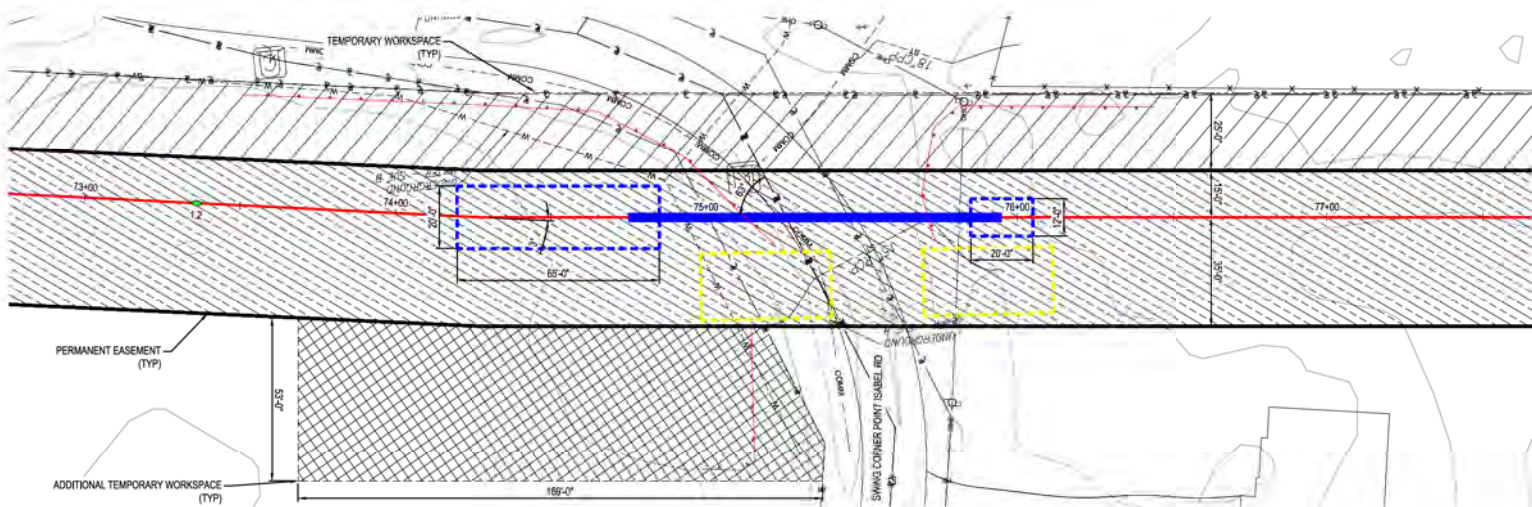


**C367 PIPELINE
CROSSING DETAIL 01
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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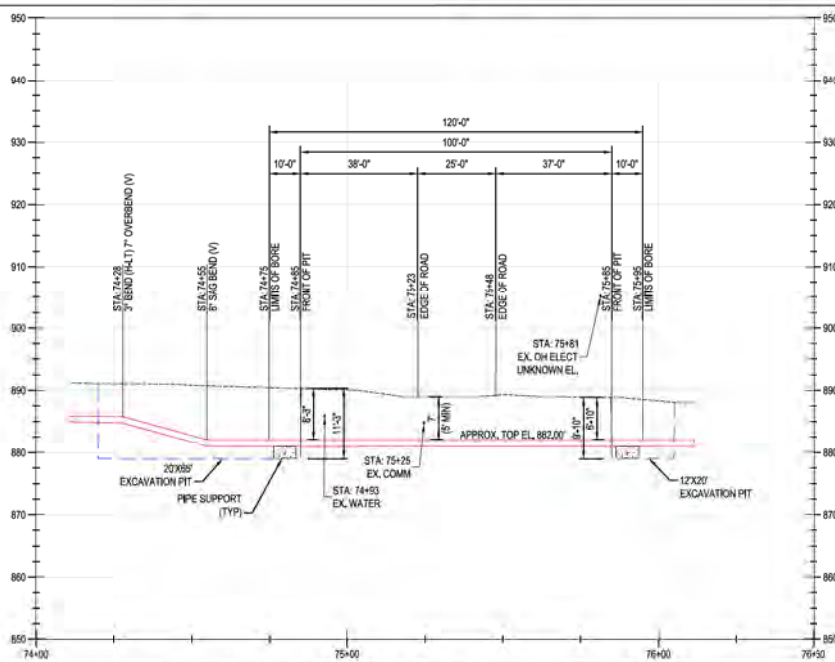
SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG -C-XXX-0001101		A	

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001100

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AWF1982
			PROJECT NUMBER AWF1982
			DRAWING BY AKT
			STATION ID
			CHECKER INITIALS AMP

APPROVALS	
REGIONAL ENGINEER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	



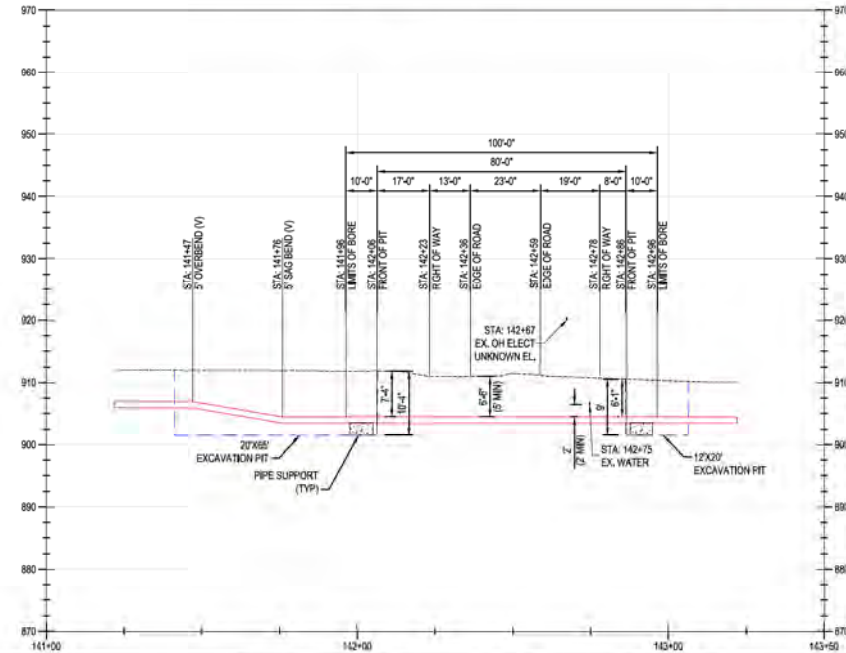
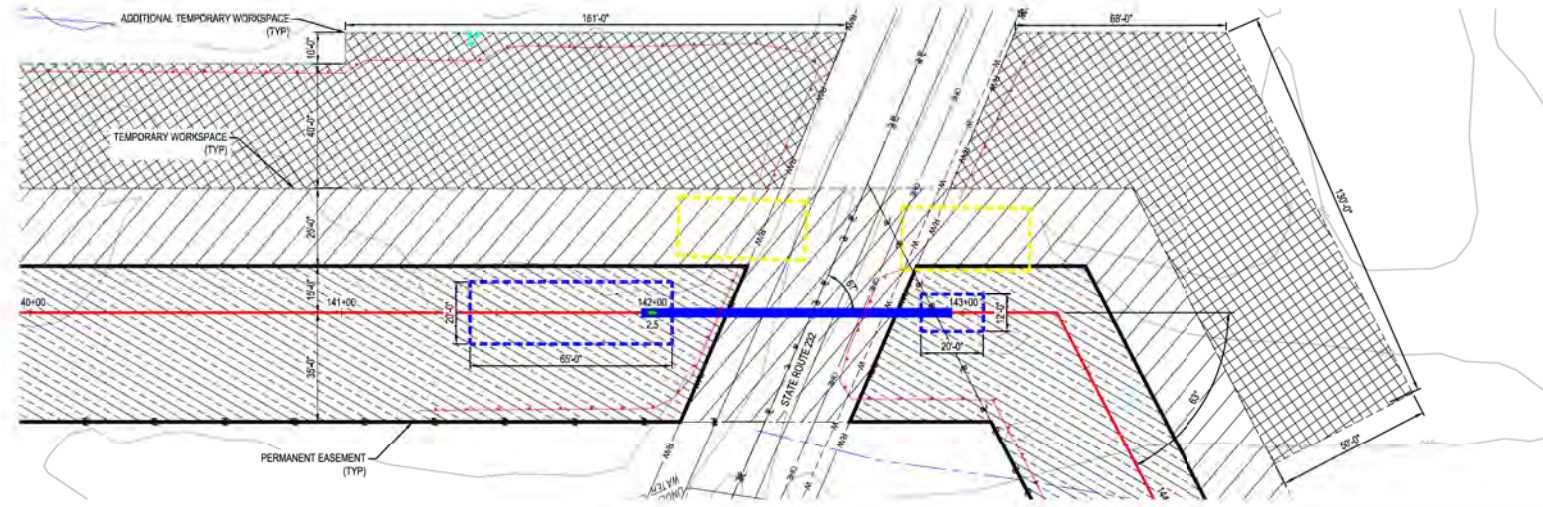
**C367 PIPELINE
 CROSSING DETAIL 02
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001102	A
CNKL00000307	

PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001100

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OFSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AW1982
			PROJECT NUMBER AW1982
			DRAWING BY AKT
			STATION ID
			CHECKER INITIALS AMP

DATE	INITIALS	REGIONAL MANAGER

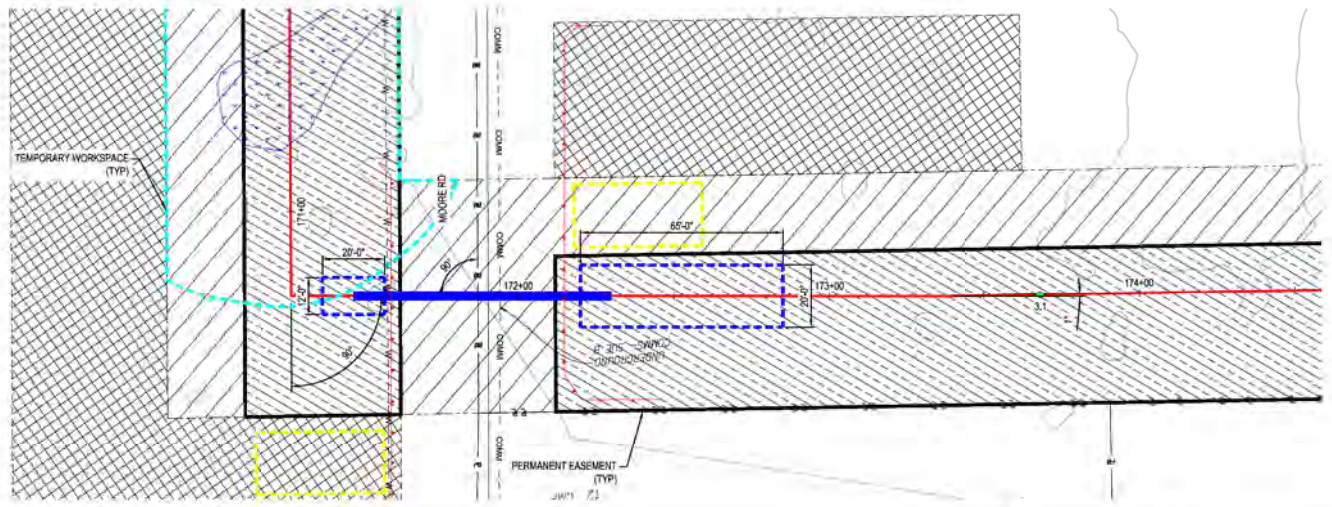
**C367 PIPELINE
 CROSSING DETAIL 03
 CLERMONT COUNTY, OHIO**

KELLOGG, OH
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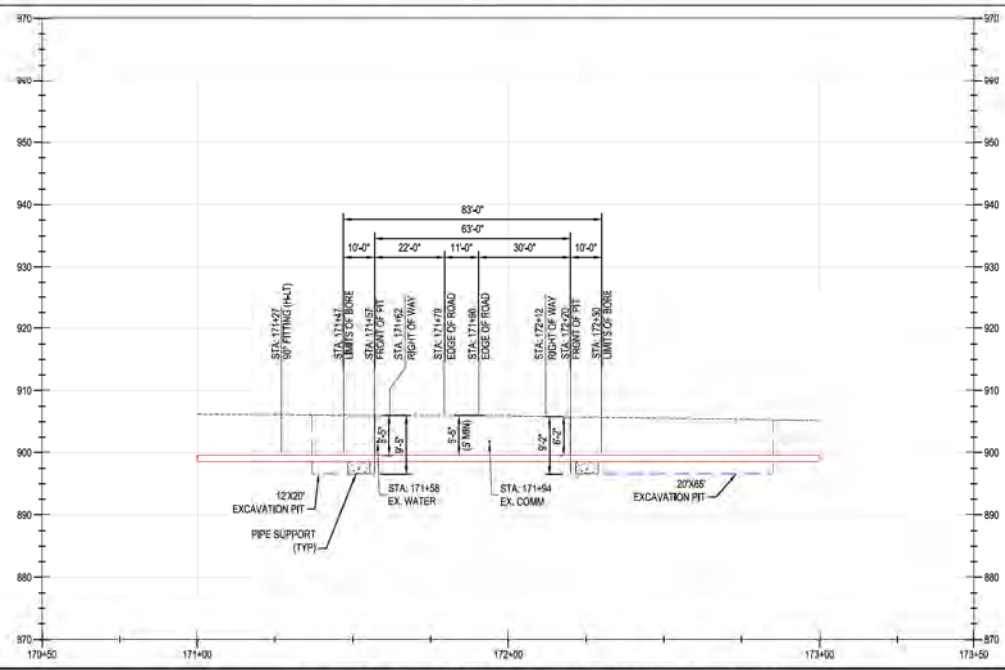
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001103	A

PROFESSIONAL ENGINEER STAMP

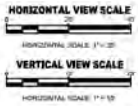
PLAN



PROFILE



NOTE:
1. CONTRACTOR MAY PROPOSE CONVENIENCE BORES. ANY CHANGES IN INSTALLATION METHOD FROM THAT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN ADVANCE BY DUKE.



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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	80% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY AKT
			STATION ID
			CHECKER INITIALS AMP

APPROVALS	
REGIONAL MANAGER	DATE
MGR TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE



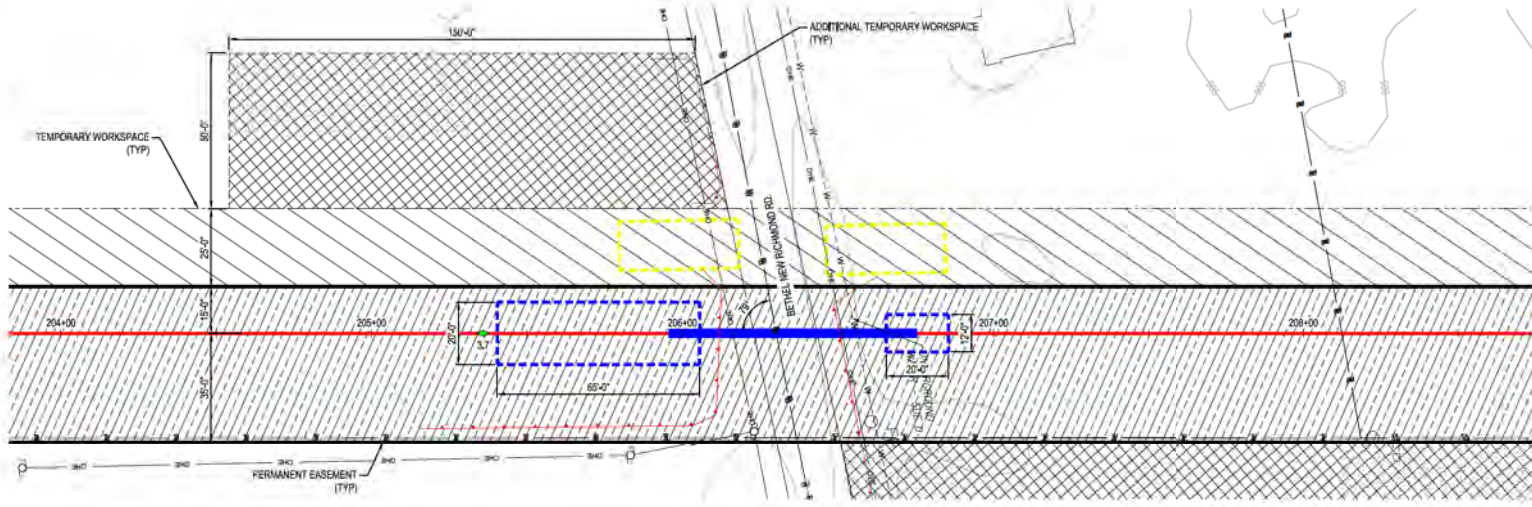
**C367 PIPELINE
CROSSING DETAIL 04
CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001104	A

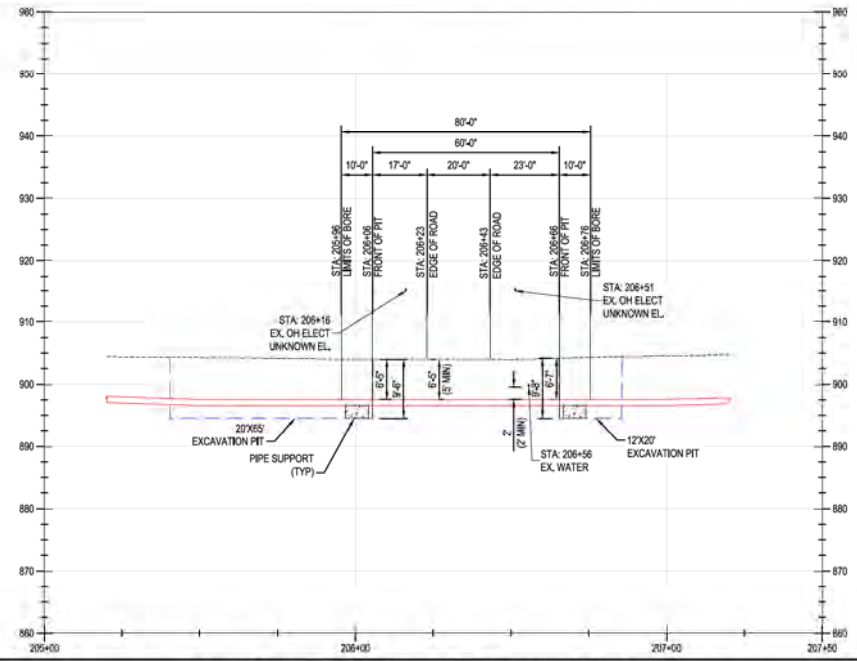
PROFESSIONAL ENGINEER STAMP

CNKL0001C007

PLAN



PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001100

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AWF1982
			PROJECT NUMBER AW1982
			DRAWING BY AKT
			STATION ID
			CHECKER INITIALS AMP

APPROVALS	REGIONAL MANAGER
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
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**C367 PIPELINE
 CROSSING DETAIL 05
 CLERMONT COUNTY, OHIO**

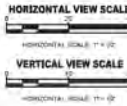
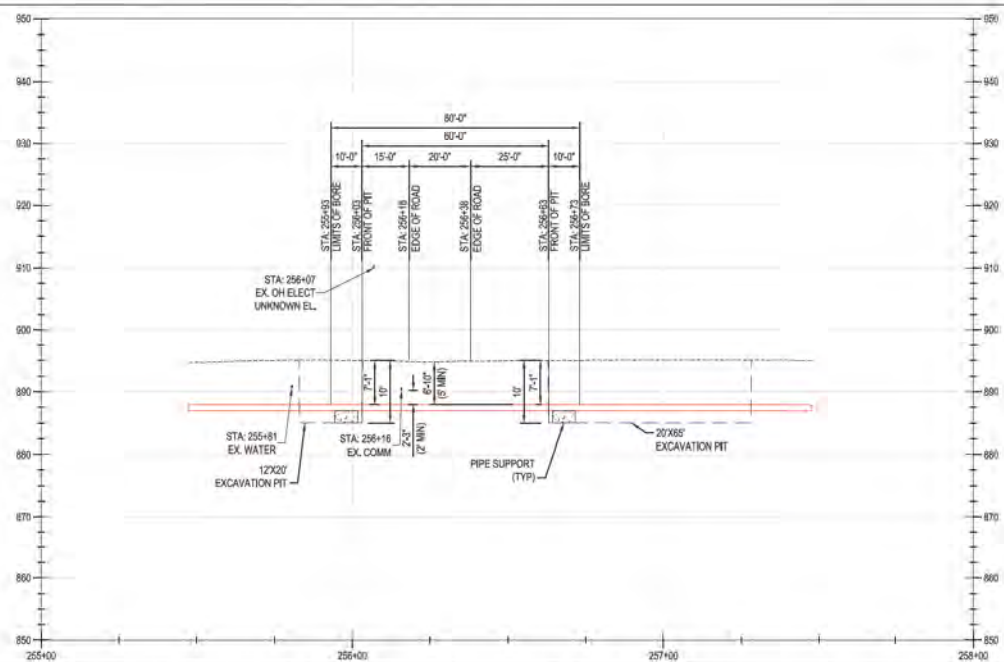
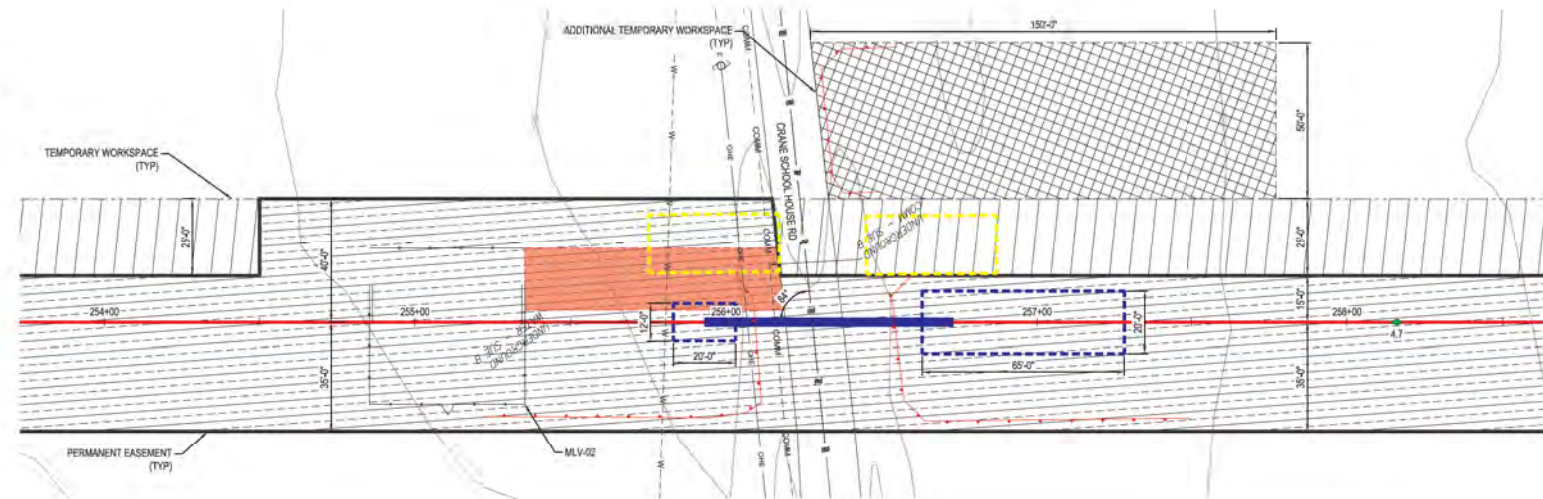
KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-001105	A

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PROFILE



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REF. DWG(S) PNG-G-XXX-000100

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP	DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPS/B	AKT	AMP	CNS	

NO.	DATE	DESCRIPTION	APPROVALS
1		AREA CODE	
2		ACCOUNT NUMBER	
3		PROJECT NUMBER	
4		DRAWING BY	
5		STATION ID	
6		CHECKER INITIALS	

NO.	DATE	DESCRIPTION	APPROVALS
1		REGIONAL PROJECT ID	
2		MGR. TECH REC & STD	
3		PRINCIPAL ENGINEER	

**C367 PIPELINE
CROSSING DETAIL 06
CLERMONT COUNTY, OHIO**

KELLOGG, OH

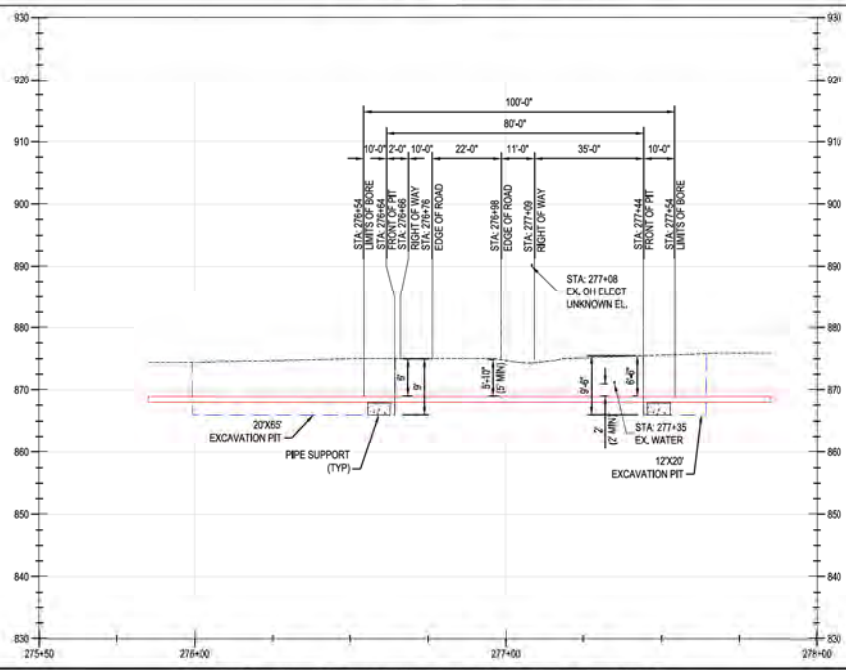
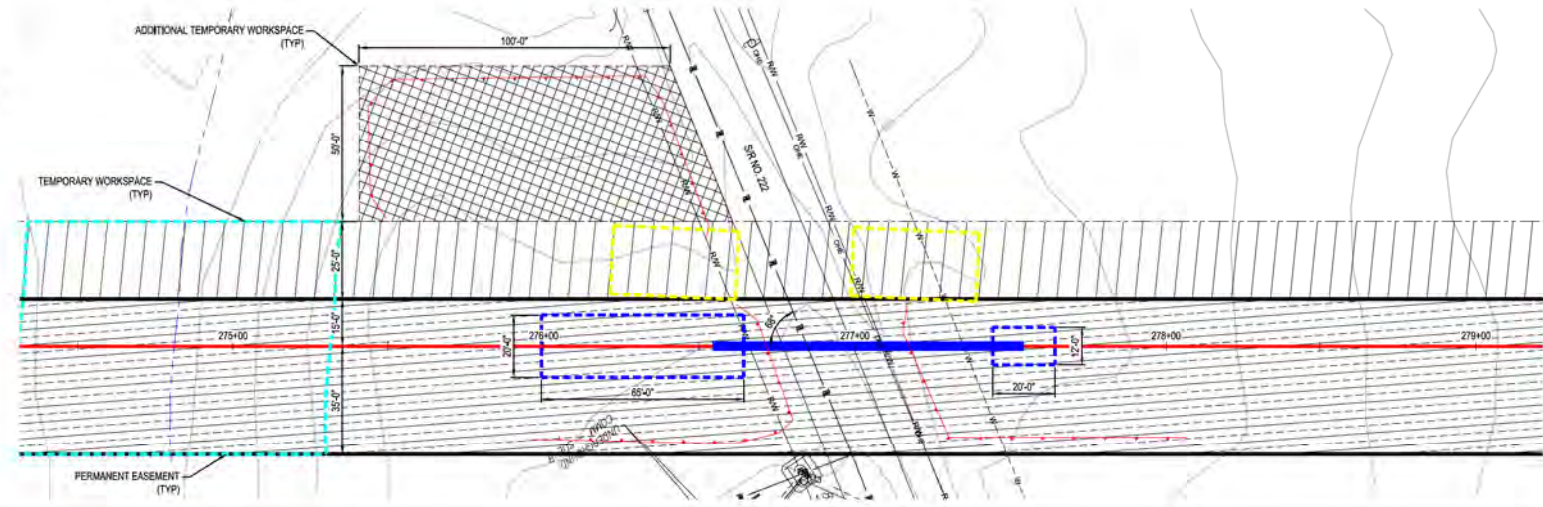
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SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001106		
REVISION	A		

PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S): PNG-G-XXX-001100

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D
A	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS

DESCRIPTION	DATE	INITIALS
AREA CODE		
ACCOUNT NUMBER	AW1982	
PROJECT NUMBER	AW1982	
DRAWING BY	AKT	
STATION ID		
CHECKER INITIALS	AMP	

REGIONAL PROJECT ID	DATE	INITIALS
MGR TECH REC & STD		
PRINCIPAL ENGINEER		

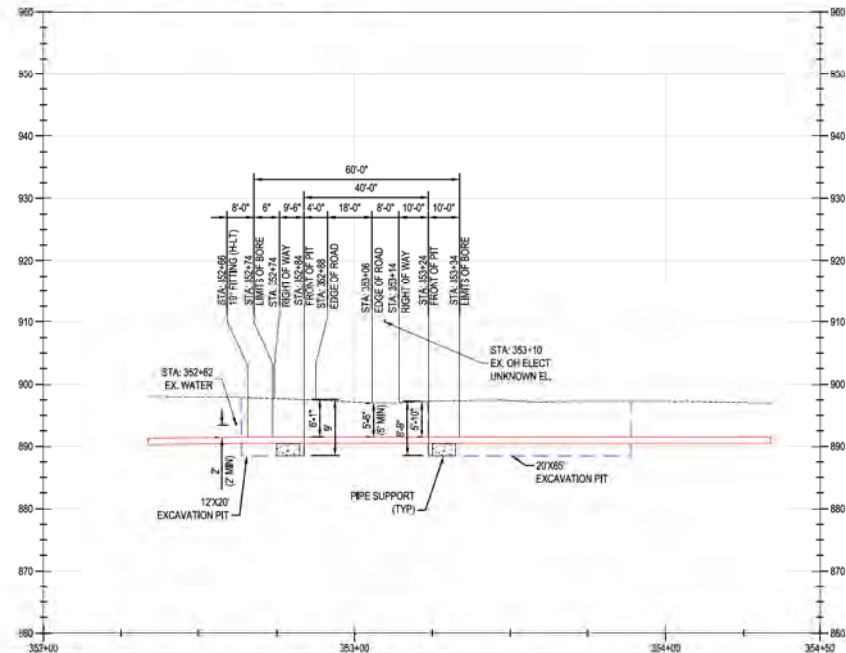
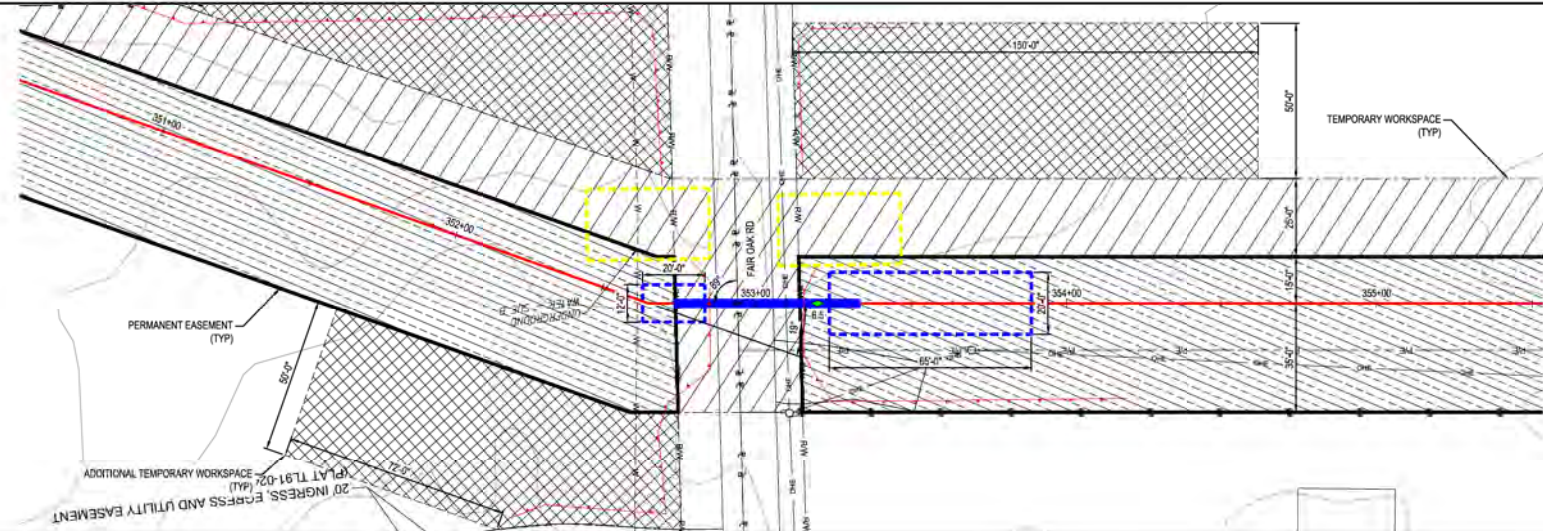
**C367 PIPELINE
 CROSSING DETAIL 07
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
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SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001107		
REVISION	A		

PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

REGIONAL PROJECT MANAGER	APPROVALS
	DATE INITIAL
	DATE INITIAL
	DATE INITIAL

**C367 PIPELINE
 CROSSING DETAIL 08
 CLERMONT COUNTY, OHIO**

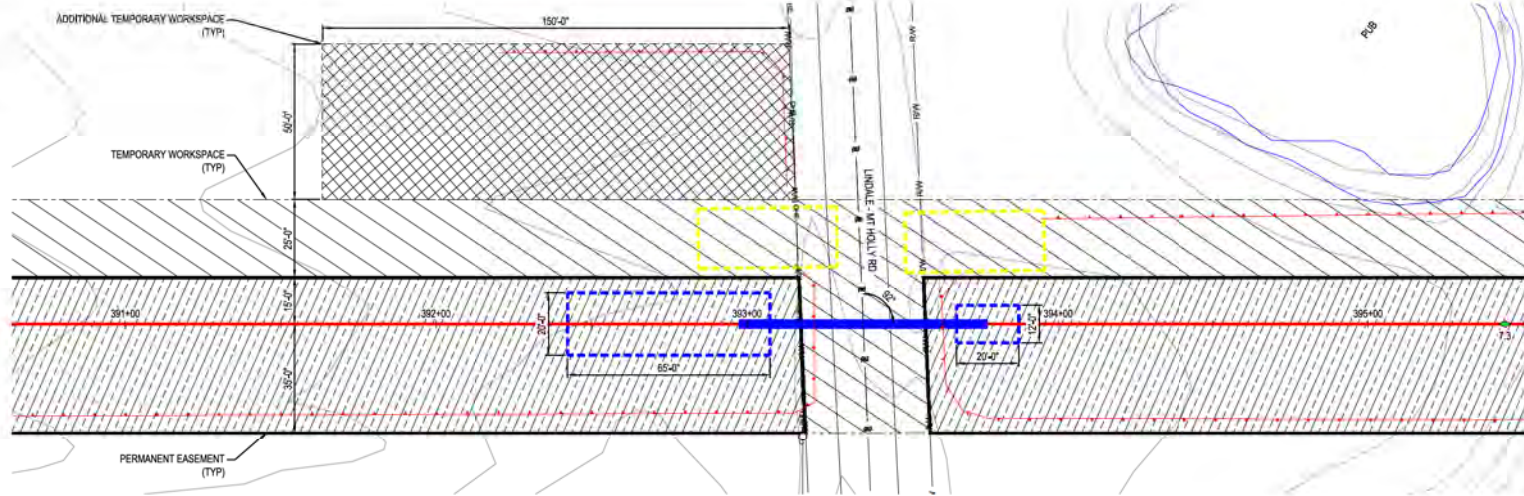
KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-001108	A

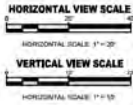
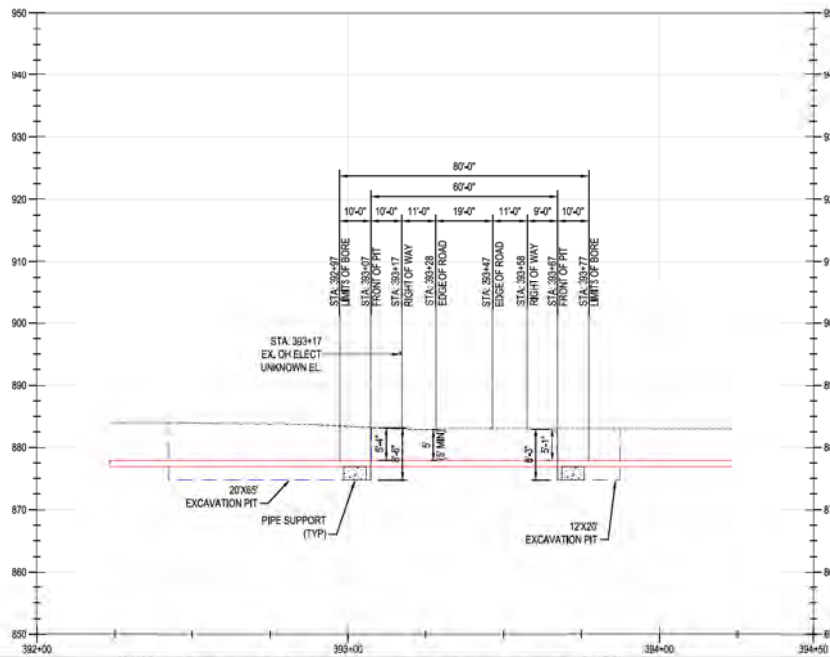
PROFESSIONAL ENGINEER STAMP



PLAN



PROFILE



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ENGINEERING COMPANY, INC.
STATE LICENSE # OGA, 01957

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REF. DWG(S) PNG-G-XXX-001100

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D
A	02-19-2021	60% DESIGN FOR OPS&B	AKT	AMP	CNS

DESCRIPTION		APPROVALS	
AREA CODE		DATE	INITIALS
ACCOUNT NUMBER	AW1902	DATE	INITIALS
PROJECT NUMBER	AW1902	DATE	INITIALS
DRAWING BY	AKT	DATE	INITIALS
STATION ID		DATE	INITIALS
CHECKER INITIALS	AMP		

REGIONAL ENGINEER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

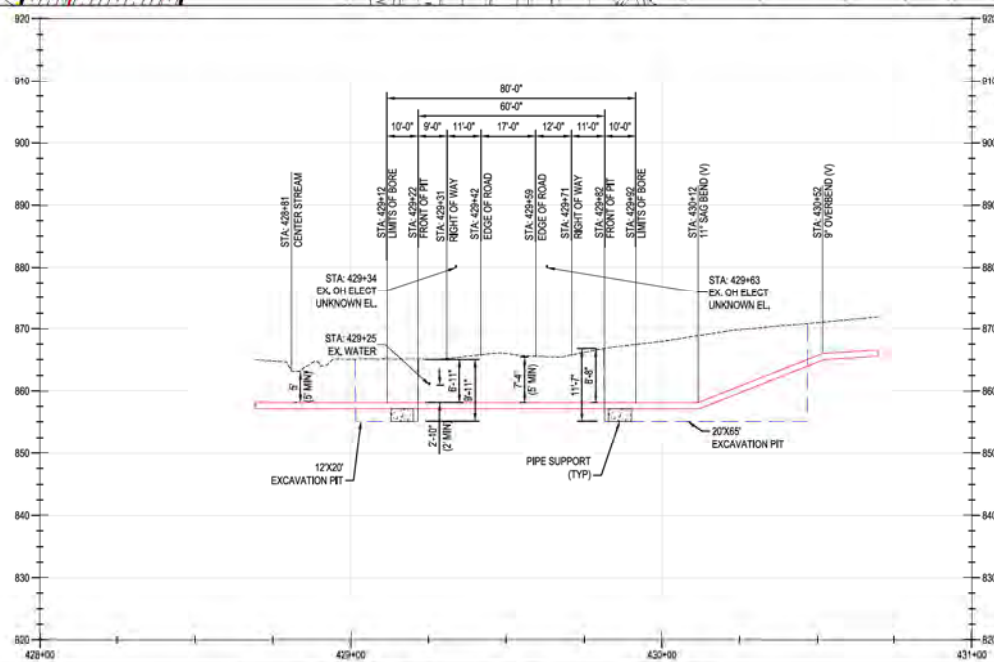
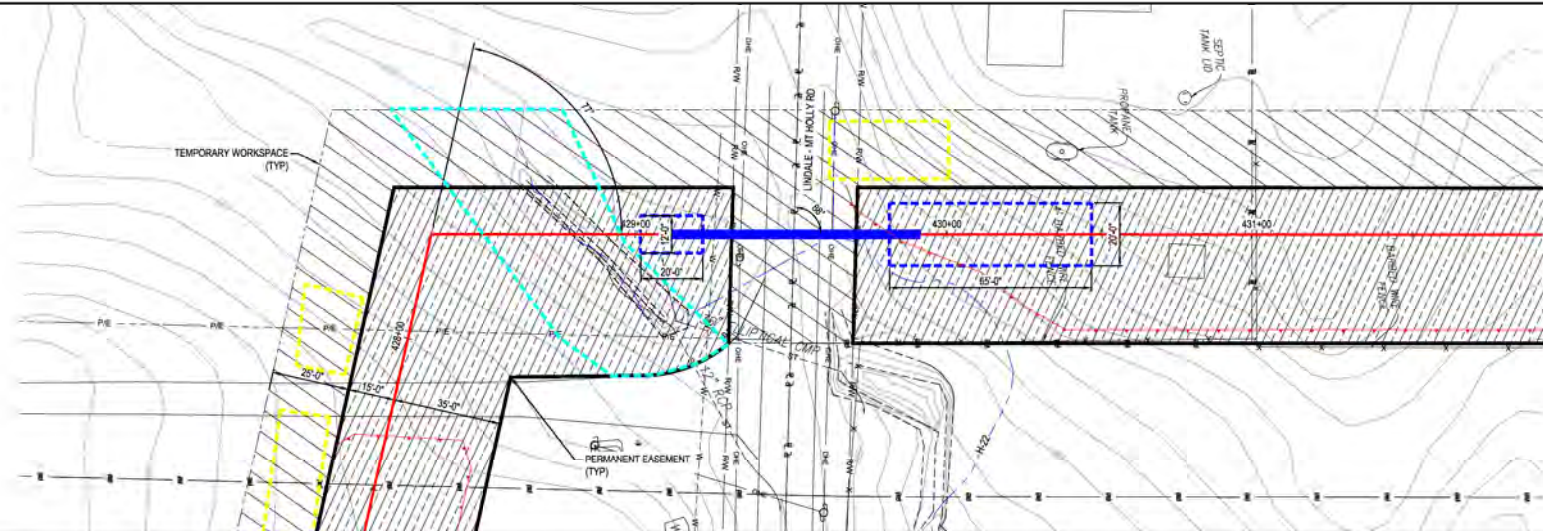
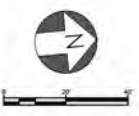
**C367 PIPELINE
CROSSING DETAIL 09
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG -C-XXX-001109		A	
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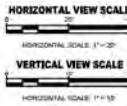
PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



NOTE
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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	80% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

DATE	INITIALS	APPROVALS
		REGIONAL MANAGER
		MGR TECH REC & STD
		PRINCIPAL ENGINEER



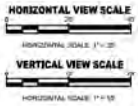
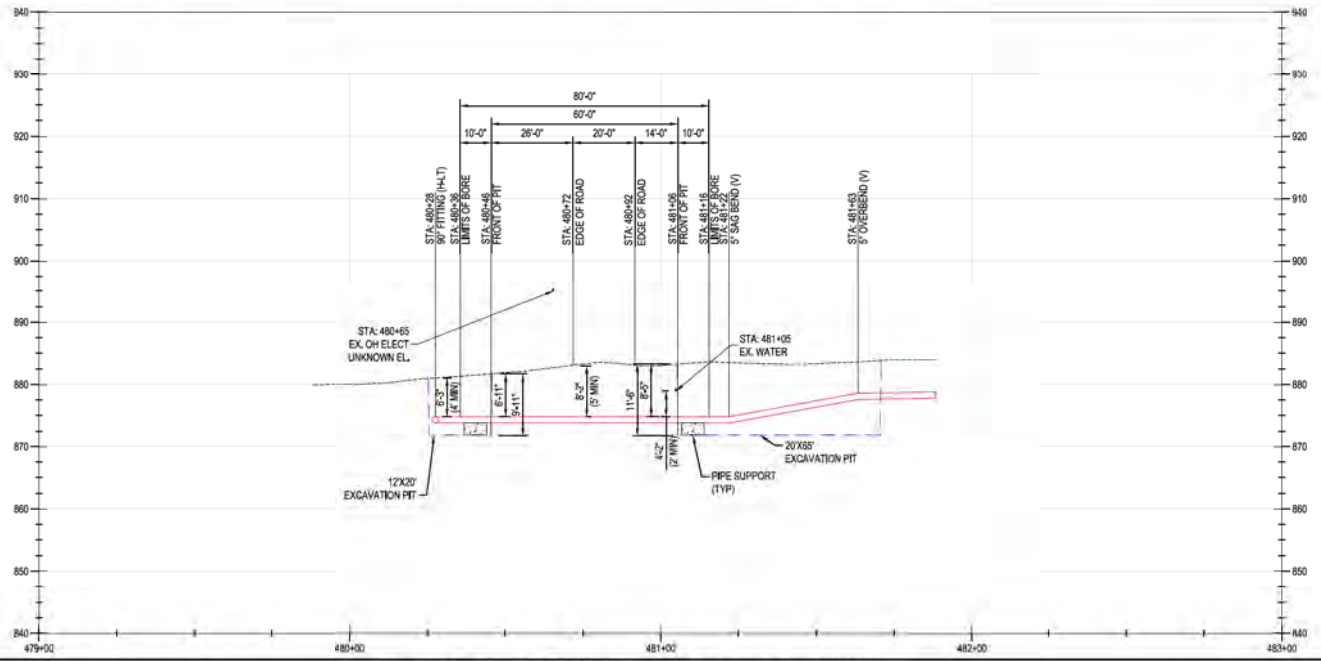
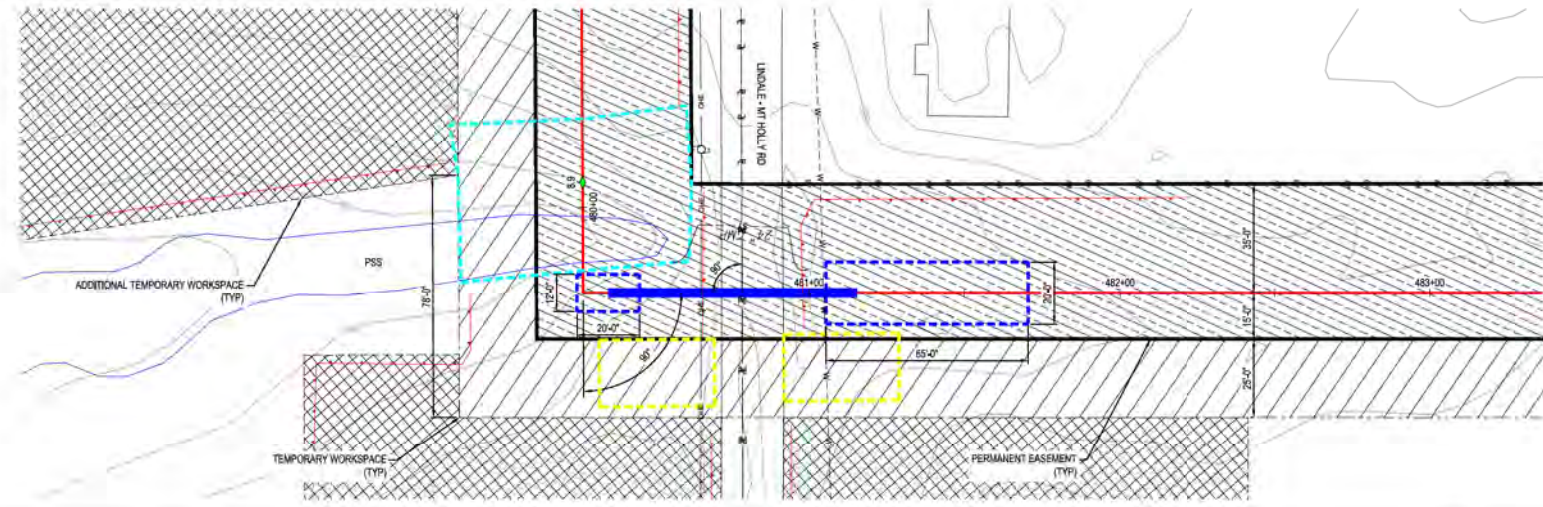
**C367 PIPELINE
 CROSSING DETAIL 10
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001110	A

PROFESSIONAL ENGINEER STAMP

PLAN

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NOTE:
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STATE LICENSE # CDA, 01957

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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPD
A	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS

DESCRIPTION	DATE	INITIALS
APPROVALS		
REGIONAL MANAGER		
MGR TECH REC & STD		
PRINCIPAL ENGINEER		

AREA CODE	AW1902
PROJECT NUMBER	AW1902
DRAWING BY	AKT
STATION ID	
CHECKER INITIALS	AMP



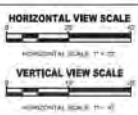
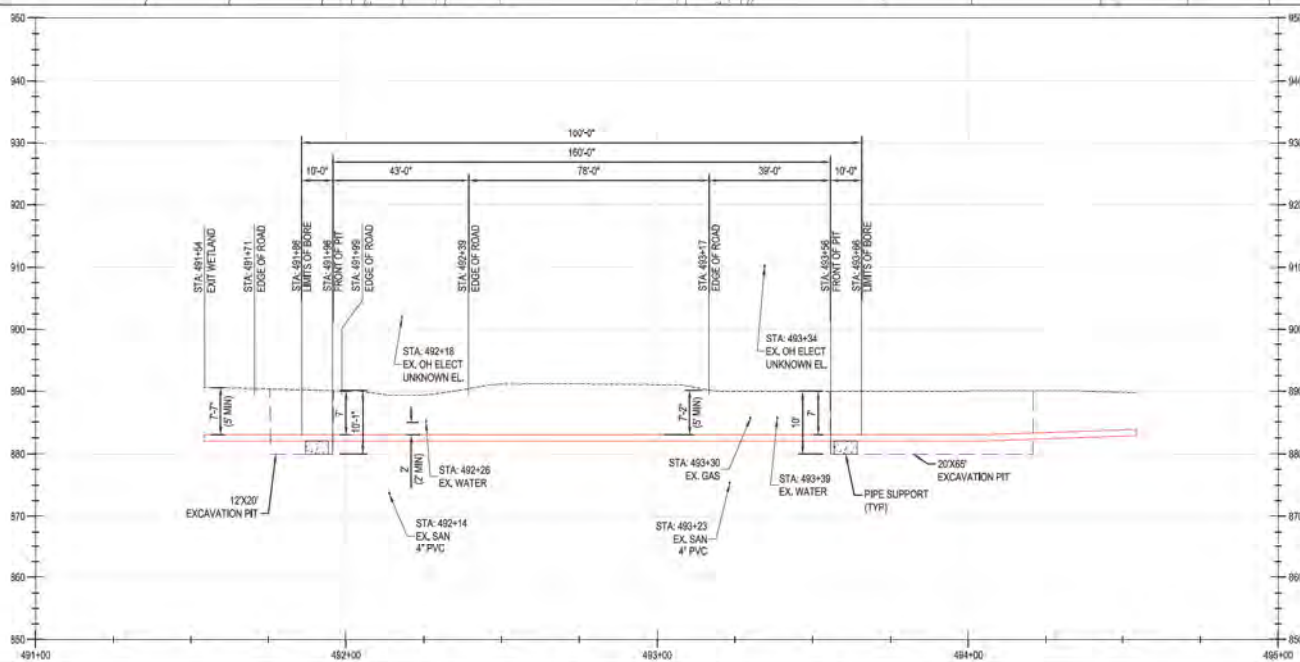
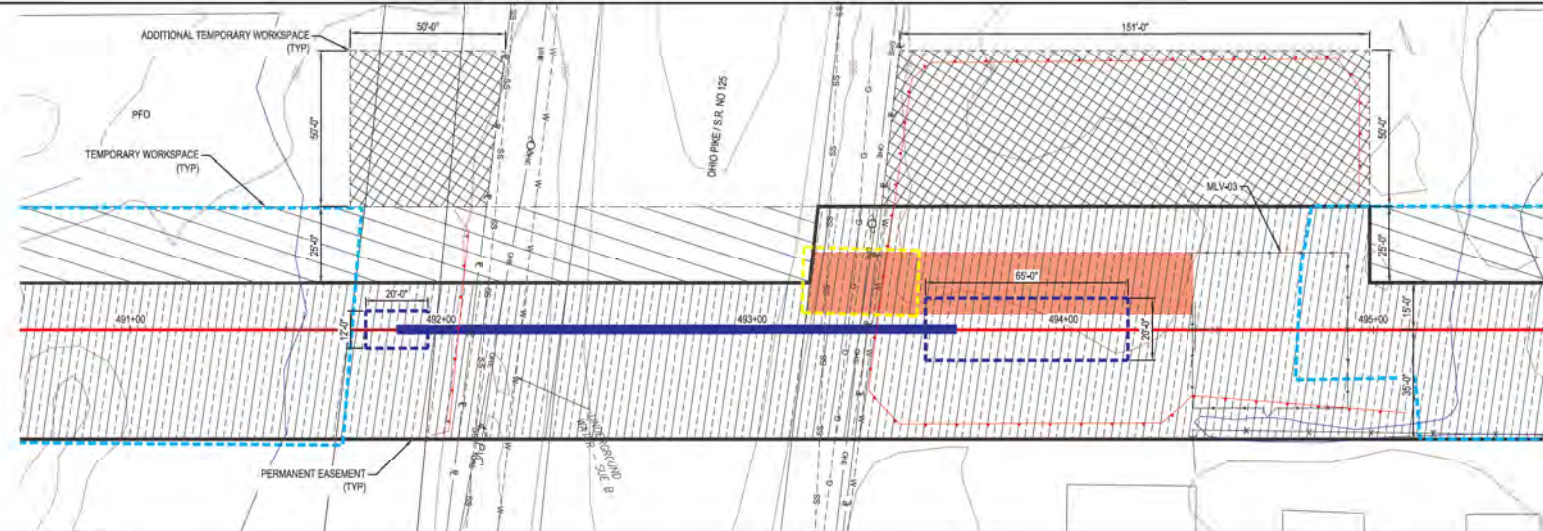
**C367 PIPELINE
CROSSING DETAIL 11
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001111		
REVISION	A		

PROFESSIONAL ENGINEER STAMP

PLAN

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STATE LICENSE # COA. 01957

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REF. DWG(S) PNG-G-XXX-0001000

NO.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPV
A	02-19-2021	60% DESIGN FOR OPS/B	AKT	AMP	CNS

DESCRIPTION	DATE	APPROVALS
AREA CODE		
ACCOUNT NUMBER	AW1902	
PROJECT NUMBER	AW1902	
DRAWING BY	AKT	
STATION ID		
CHECKER INITIALS	AMP	

REGIONAL ENGINEER	APPROVALS
MGR. TECH REC & STD	
PRINCIPAL ENGINEER	

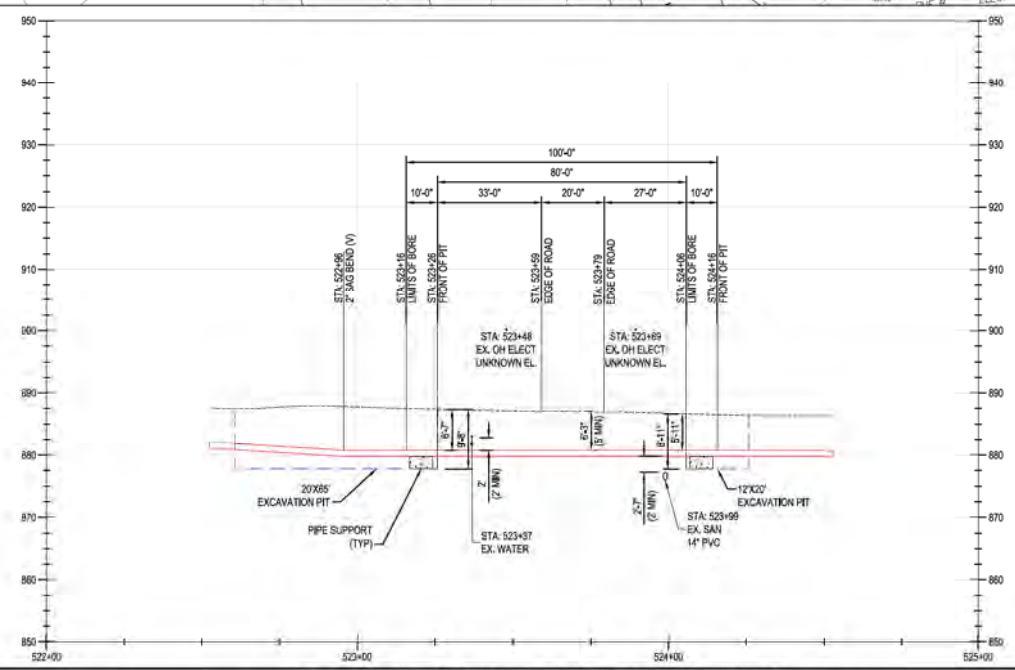
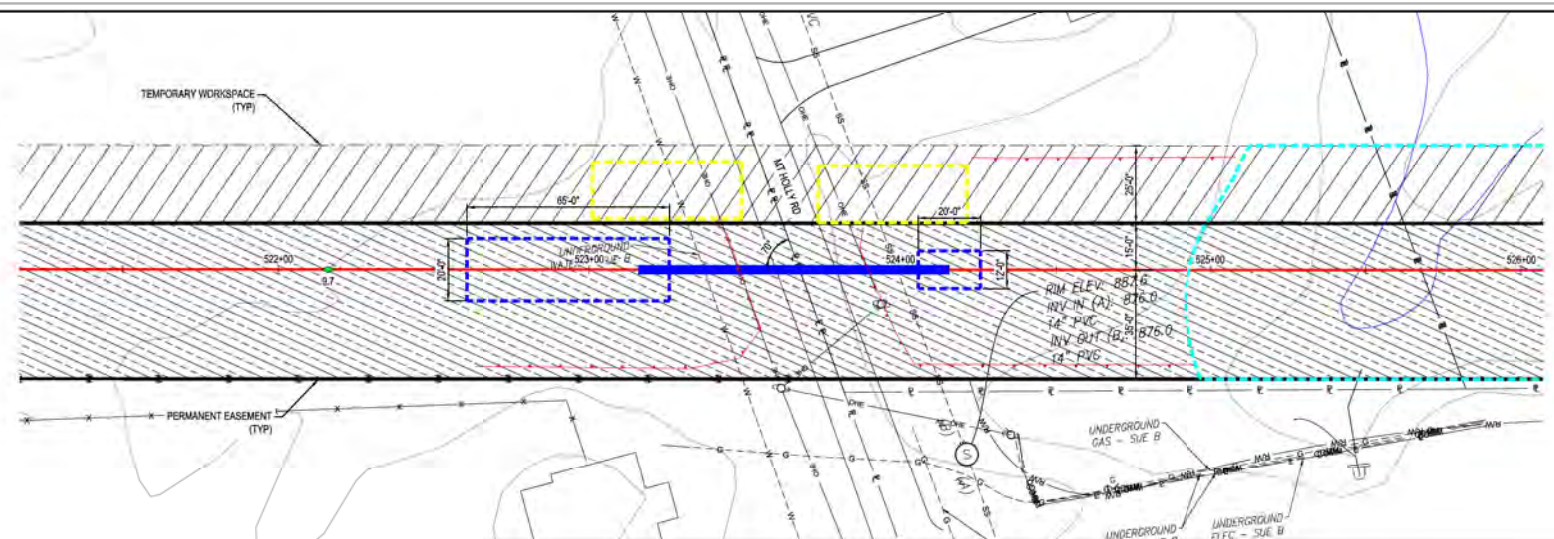
**C367 PIPELINE
CROSSING DETAIL 12
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001112	A

PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	80% DESIGN FOR OFSB

BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
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			PROJECT NUMBER AWF1982
			DRAWING BY AKT
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APPROVALS	
REGIONAL MANAGER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

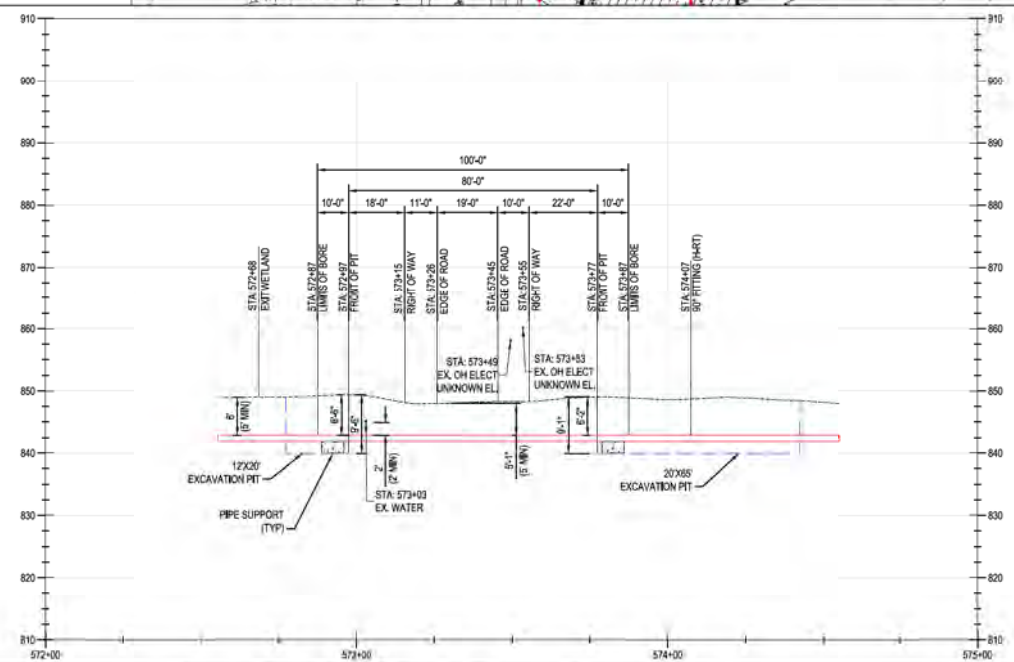
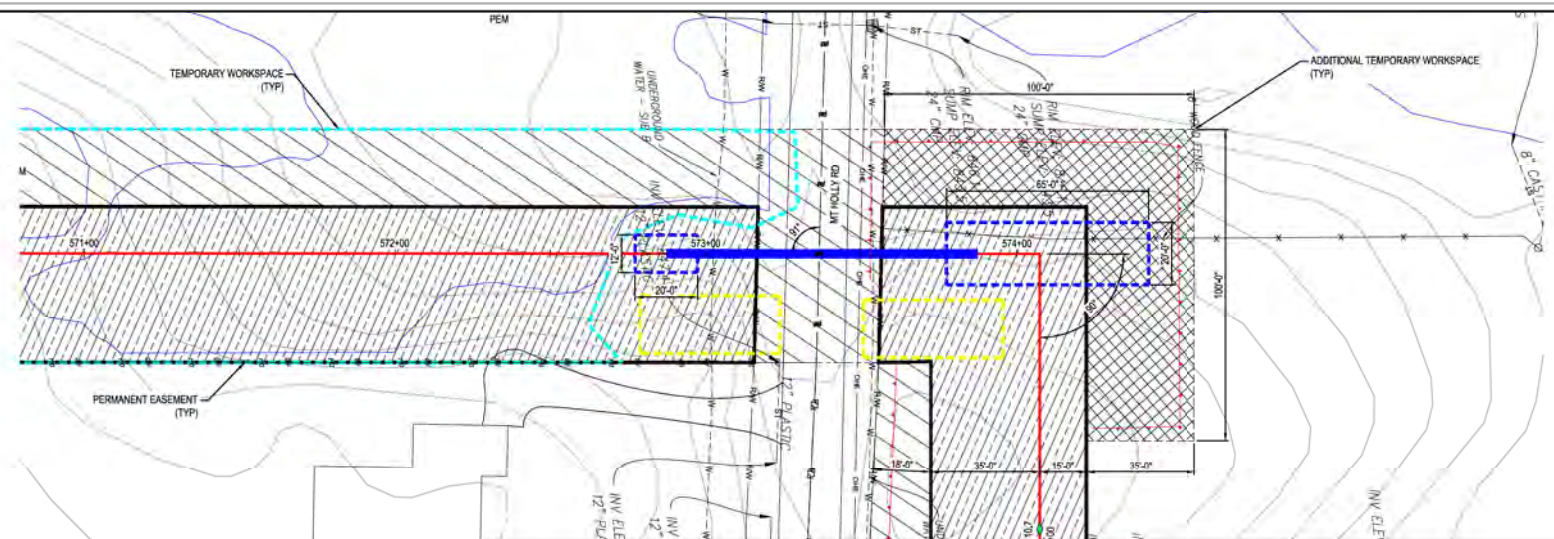
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 CROSSING DETAIL 13
 CLERMONT COUNTY, OHIO**
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DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001113	A

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PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISIONS/DESCRIPTION
A	02-19-2021	80% DESIGN FOR OPSB

SY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

APPROVALS	
REGIONAL MANAGER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	



**C367 PIPELINE
 CROSSING DETAIL 14
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001114	A

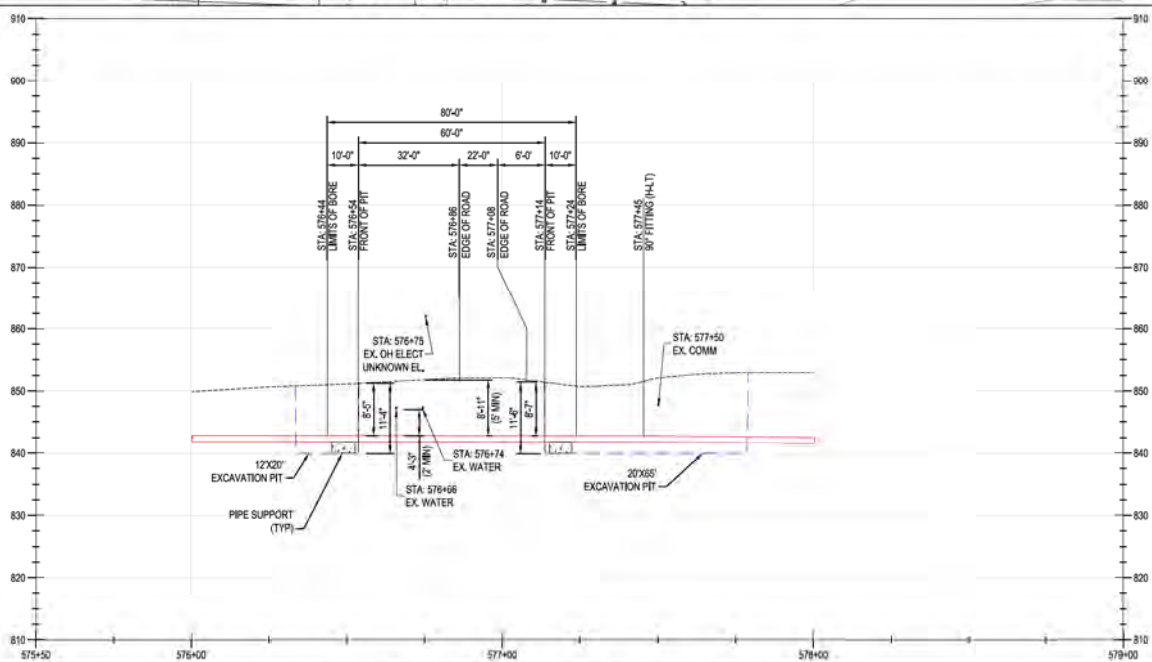
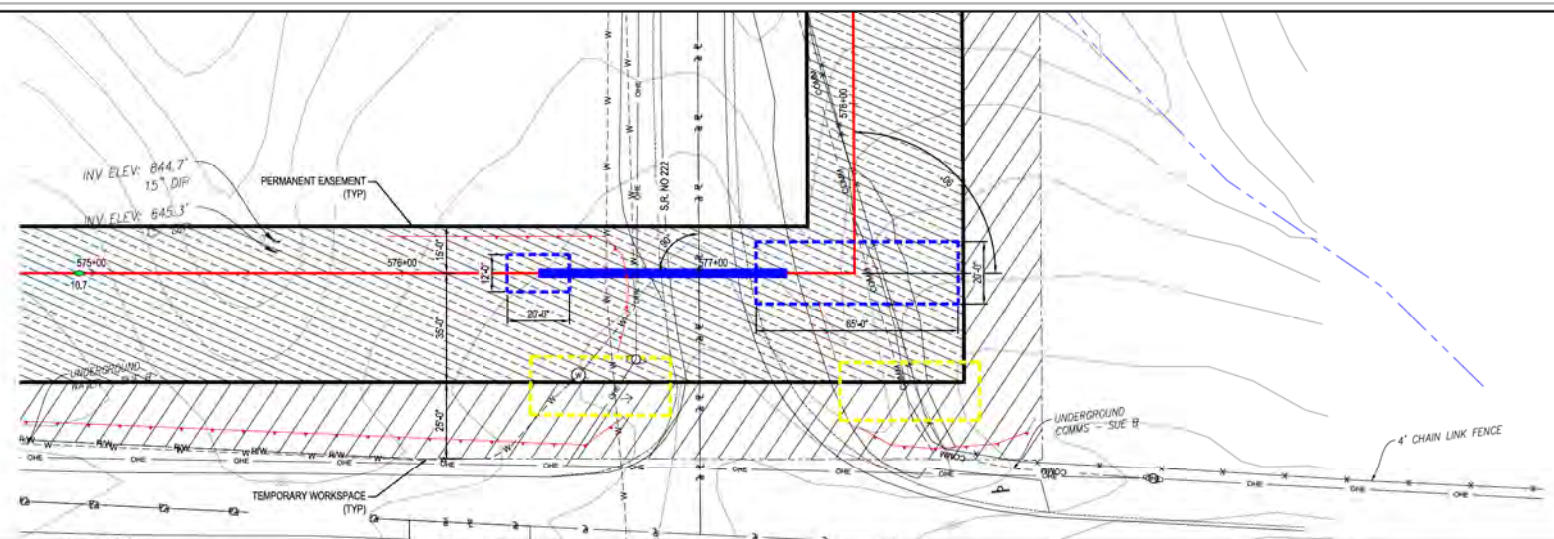
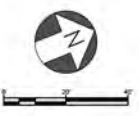
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CNK/LOGG/CW7

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'
 HORIZONTAL SCALE: 1" = 10'

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REF. DWG(S)	PNG-G-000-001000		
SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001115		REVISION
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NO.	DATE	REVISION/DESCRIPTION
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BY	CHK	APPD	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY AKT
			STATION ID
			CHECKER INITIALS AMP

REGIONAL PROJECTS	APPROVALS
	DATE
	DATE
	DATE
	DATE

**C367 PIPELINE
 CROSSING DETAIL 15
 CLERMONT COUNTY, OHIO**

DUKE ENERGY | Piedmont Natural Gas

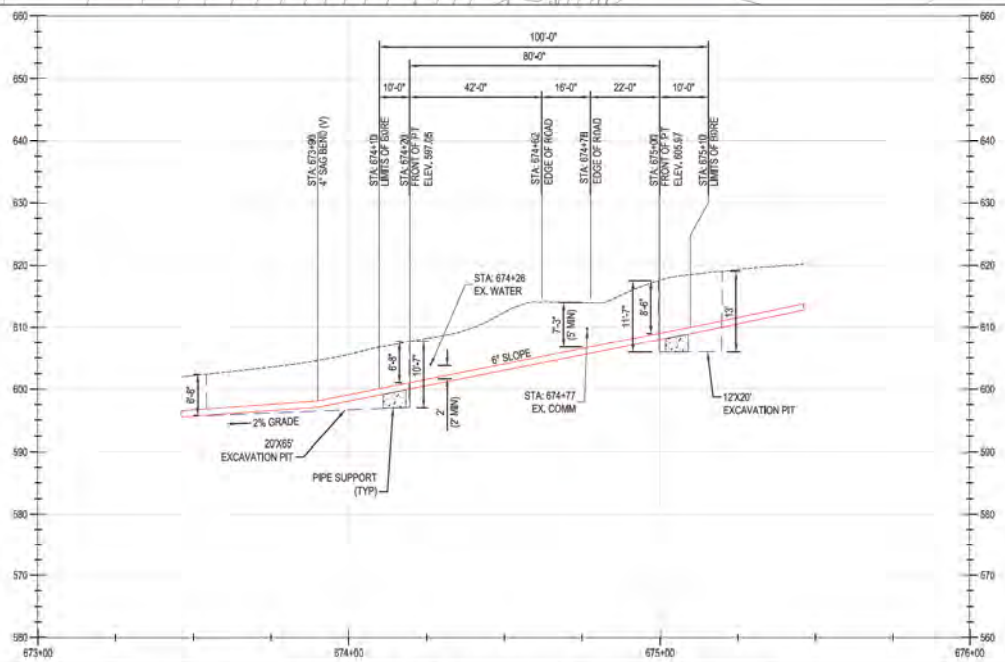
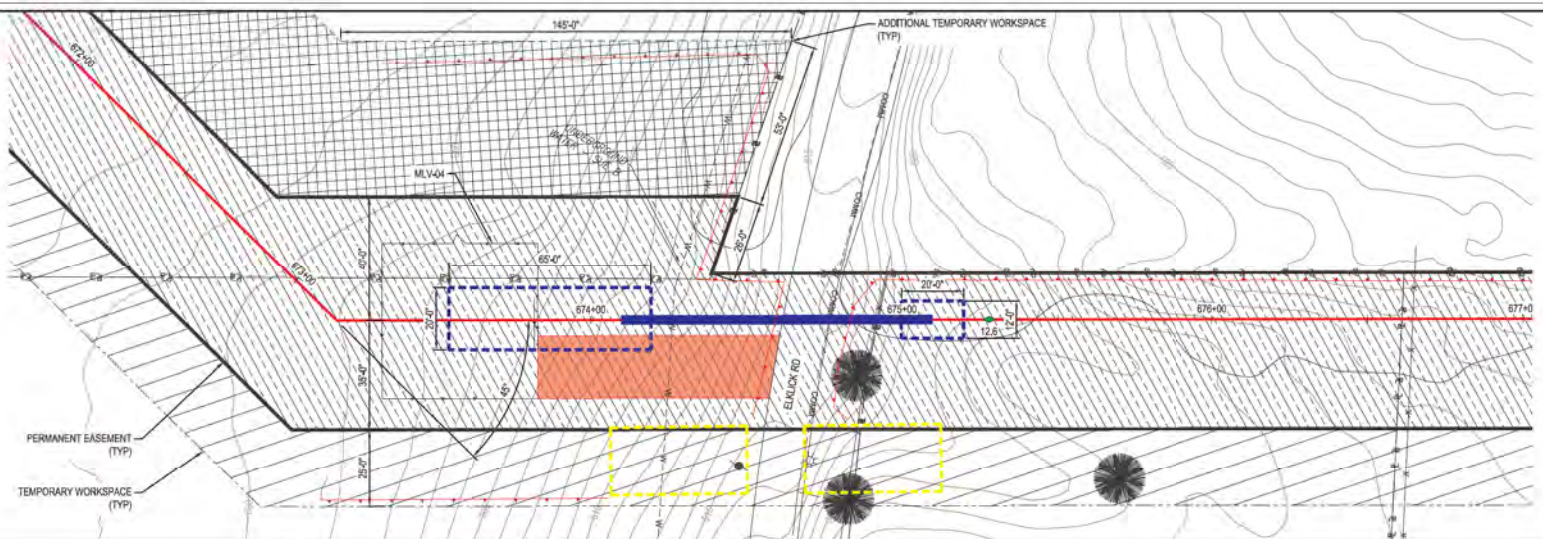
PRINCIPAL ENGINEER

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KELLOGG, OH

PLAN

PROFILE



HORIZONTAL VIEW SCALE

 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE

 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-XXX-0001000

NO.	DATE	REVISIONS/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPS/B

BY	CHK	APPV	DESCRIPTION
AKT	AMP	CNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY AKT
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APPROVALS	
REGIONAL FACILITY EID	
MGR. TECH REC & STD	
PRINCIPAL ENGINEER	



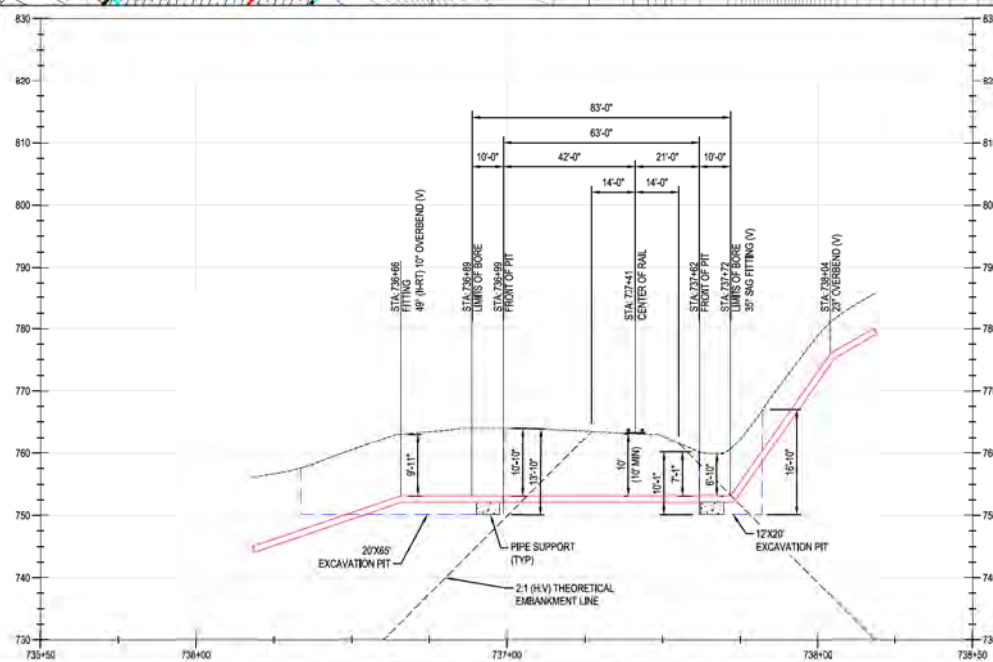
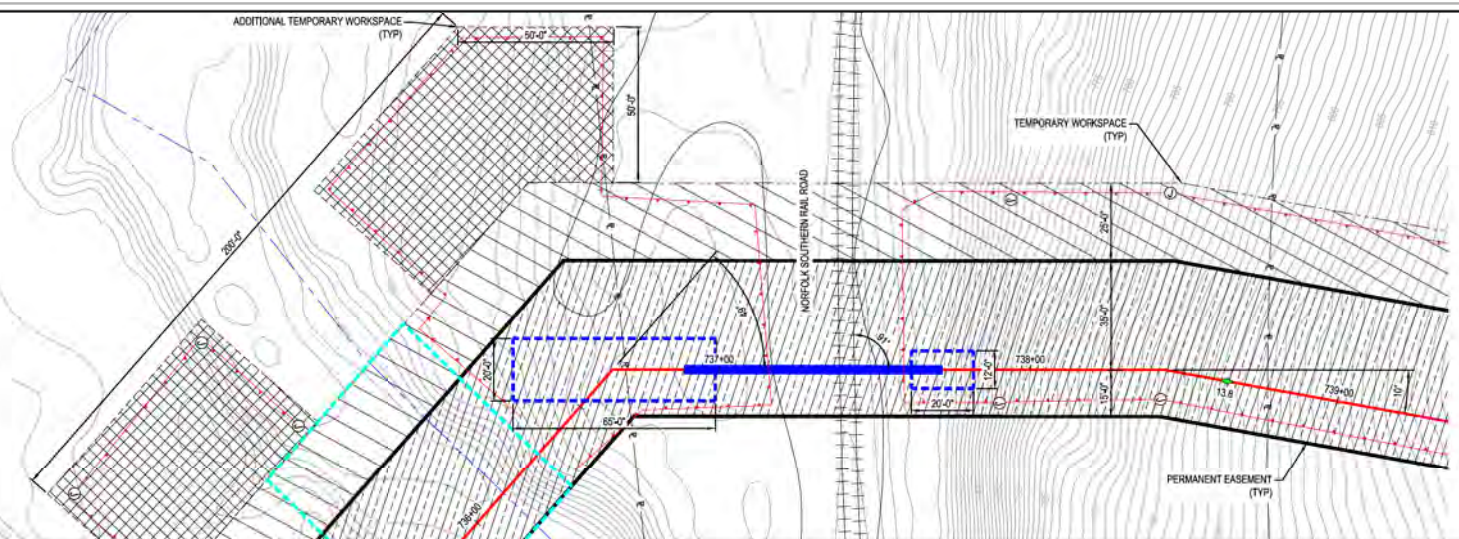
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 CROSSING DETAIL 16
 CLERMONT COUNTY, OHIO**
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DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001116	A

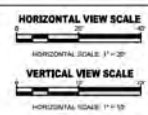
PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



NOTE:
1. EXCAVATION WITHIN RAILROAD ZONE OF INFLUENCE.



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REF. DWG(S) PNG-G-XXX-001000

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	

APPROVALS	REGIONAL ENGINEER
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____



**C367 PIPELINE
CROSSING DETAIL 17
CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 01/13/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-XXX-0001117	A

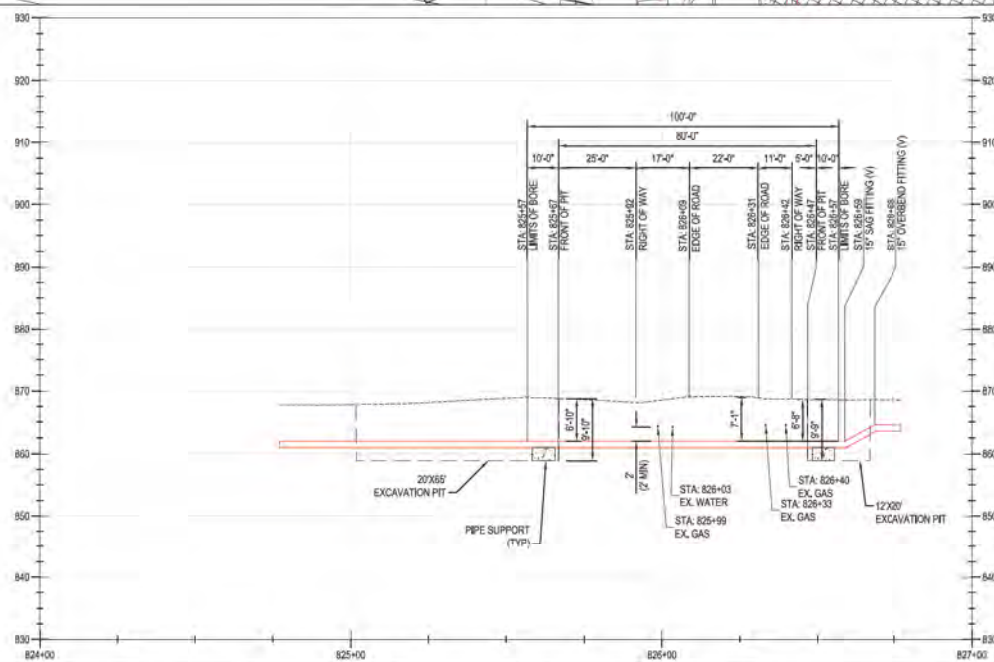
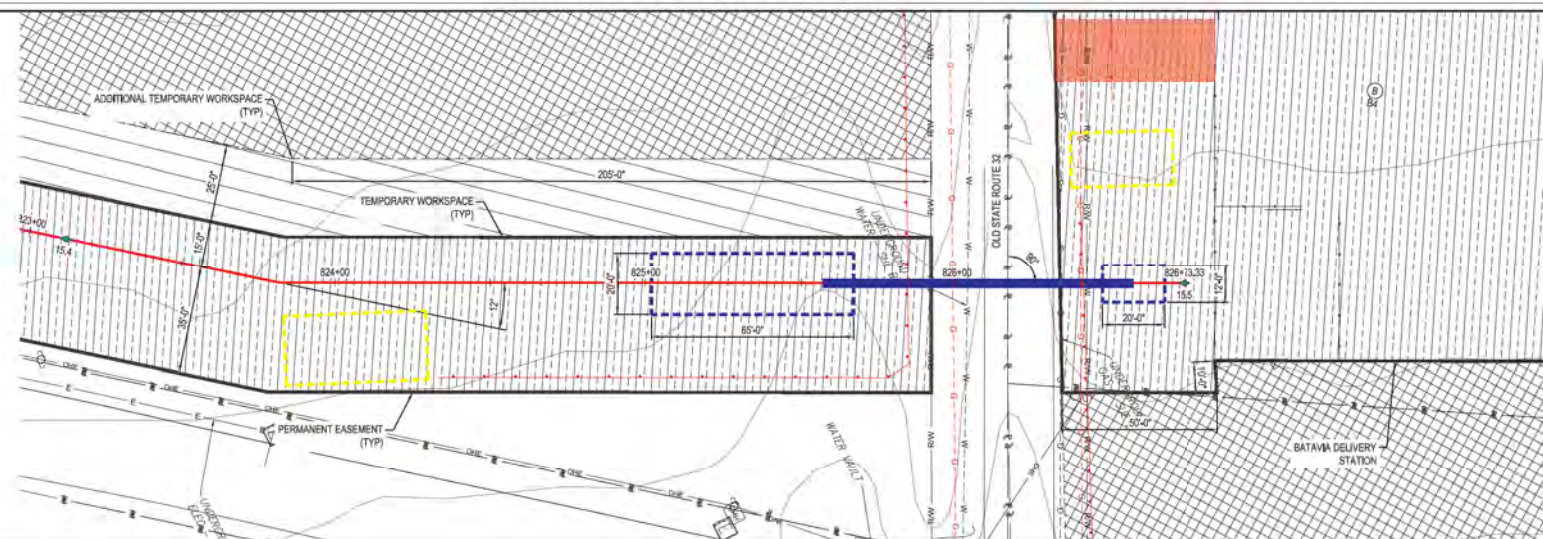
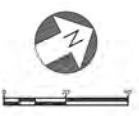
PROFESSIONAL ENGINEER STAMP

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PLAN

PROFILE



HORIZONTAL VIEW SCALE
 1" = 40'
VERTICAL VIEW SCALE
 1" = 10'

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REF. DWG(S) PNG-G-XXX-0001000

NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPS/B	AKT	AMP	CNS	

APPROVALS	REGIONAL ENGINEER	MGR. TECH REC & STD	PRINCIPAL ENGINEER
DATE: _____	DATE: _____	DATE: _____	DATE: _____

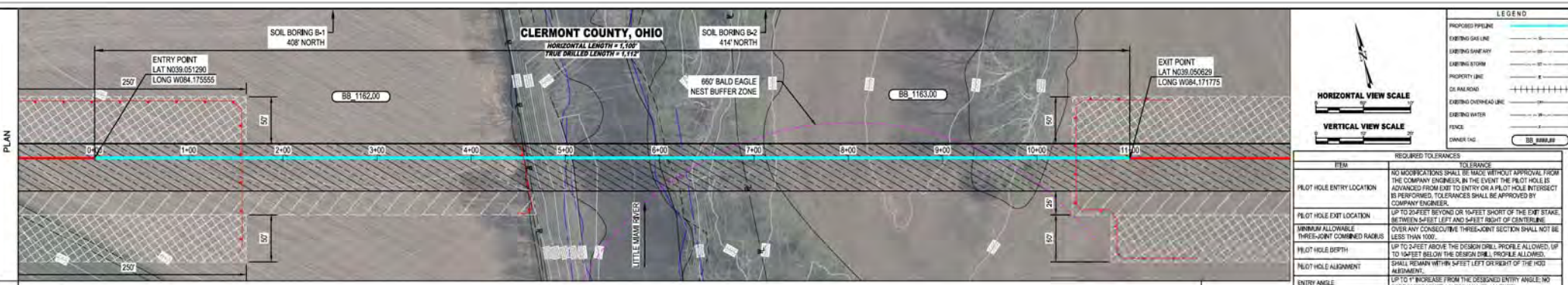
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AREA CODE		
ACCOUNT NUMBER		
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DRAWING BY		
STATION ID		
CHECKER INITIALS		

PROFESSIONAL ENGINEER STAMP

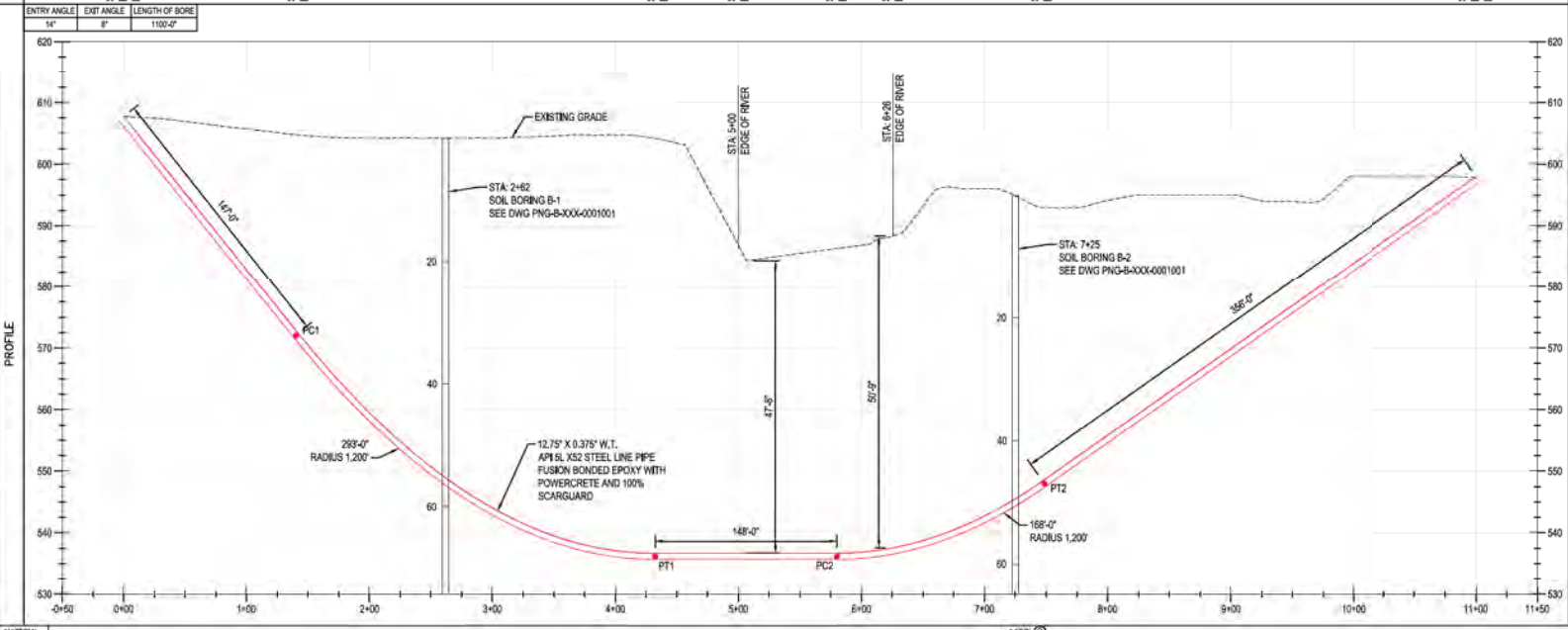


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 CROSSING DETAIL 18
 CLERMONT COUNTY, OHIO**
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DWG DATE	01/13/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001118		
REVISION	A		



STATIONING	STATIONING	STATIONING	STATIONING	STATIONING	STATIONING	STATIONING
STA. 0+00 ENTRY POINT @ 14°	STA. 1+42 P.C.	STA. 4+33 P.T.	STA. 5+00 EDGE OF RIVER	STA. 6+26 P.C.	STA. 6+26 EDGE OF RIVER	STA. 7+47 P.T.
PROJ. STA. 0+00	ELEV. 572.35	ELEV. 536.70	ELEV. 586.76	ELEV. 540 P.C.	ELEV. 586.87	ELEV. 543.38
LONG. W084.17555	RADIUS = 1,200'		PROJECT STA. 054+58	RADIUS = 1,200'	PROJECT STA. 057+42	PROJECT STA. 067+57
						LONG. W084.17175



REQUIRED TOLERANCES

ITEM	TOLERANCE
PILOT HOLE ENTRY LOCATION	NO MODIFICATIONS SHALL BE MADE WITHOUT APPROVAL FROM THE COMPANY ENGINEER. IN THE EVENT THE PILOT HOLE IS ADVANCED FROM EXIT TO ENTRY ON A PILOT HOLE INTERSECT BY PERFORMED, TOLERANCES SHALL BE APPROVED BY COMPANY ENGINEER.
PILOT HOLE EXIT LOCATION	UP TO 2 FEET BEFORE OR SHORT OF THE EXIT STAKE. BETWEEN LEFT AND RIGHT OF CENTERLINE.
MINIMUM ALLOWABLE THREE-JOINT COMBINED RADIUS	OVER ANY CONSECUTIVE THREE-JOINT SECTION SHALL NOT BE LESS THAN 1000'
PILOT HOLE DEPTH	UP TO 2 FEET ABOVE THE DESIGN DRILL PROFILE ALLOWED, UP TO 10 FEET BELOW THE DESIGN DRILL PROFILE ALLOWED.
PILOT HOLE ALIGNMENT	SHALL REMAIN WITHIN 5 FEET LEFT OR RIGHT OF THE HDD ALIGNMENT.
ENTRY ANGLE	UP TO 1° INCREASE FROM THE DESIGNED ENTRY ANGLE; NO DECREASE IN ENTRY ANGLE WILL BE ALLOWED.
EXIT ANGLE	NO INCREASE FROM THE DESIGNED EXIT ANGLE; UP TO 2° DECREASE IN EXIT ANGLE WILL BE ALLOWED.

GENERAL NOTES

- STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT FOR HDD SURVEY CONTROL. REFER TO THE CENTERLINE OF PIPE.
- HORIZONTAL CONTROL (NAD 83) VERTICAL CONTROL (ELEV. REF) PROVIDED.
- THE GEOTECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS A GENERAL SUMMARY.
- BORING IS OFFSET FROM THE PIPELINE CENTERLINE AS SHOWN IN THE PLAN VIEW. BORING GROUND SURFACE ELEVATION WAS PROVIDED WITH THE GEOTECHNICAL DATA REQUESTED FOR THIS SITE AS SHOWN ON THE PLAN VIEW. REFER TO THE APPLICABLE GEOTECHNICAL REPORT IN THE CONTRACT DOCUMENTS FOR MORE DETAILED INFORMATION (PROVIDED BY SAME, DATED 01/19/2021).
- CONTRACTOR IS RESPONSIBLE FOR CALLING OHIO ONE-CALL AND LOCATING ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. IF ANY UTILITY IS LOCATED WITHIN 15 FEET OF THE DESIGNED HDD PROFILE AND ALIGNMENT, CONTRACTOR SHALL OBTAIN APPROVAL FROM DUKE ENERGY PRIOR TO INITIATING HDD OPERATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ANY FOREIGN UTILITY THAT MAY BE AFFECTED BY THE HDD OPERATIONS.
- THE HDD DRILL RIG SHALL BE POSITIONED ON THE ENTRY SIDE OF THE CROSSING UNLESS OTHERWISE APPROVED BY THE PROJECT TEAM. THE USE OF DUAL RIGS DURING CONSTRUCTION MAY BE AT THE DISCRETION OF THE HDD CONTRACTOR TO BE APPROVED BY THE PROJECT TEAM.
- ALL EQUIPMENT MUST ACCESS THE SITE ALONG THE CONSTRUCTION RIGHT-OF-WAY OR FROM APPROVED ACCESS ROADS.
- MAXIMUM WORK SPACE LIMITS ARE DEPICTED. CLEARING BETWEEN THE ENTRY AND EXIT POINTS REQUIRES P900 APPROVAL FROM THE ENVIRONMENTAL INSPECTOR FOR RIG MAINTENANCE. A MINIMUM OF SHALL BE CLEARED FROM GROUND TO 60" ALONG THE ENTIRE HDD TO ENSURE COMPLIANCE WITH FEDERAL PART 159 REGULATING REQUIREMENTS THAT WOULD ALLOW FOR AERIAL SURVEILLANCE OF THE NON ON THE FREQUENT.
- CONTRACTOR SHALL REPORT IF EXCESS FLUID IN ACCORDANCE WITH CONTRACT DOCUMENTS AND/OR PERMIT CONDITIONS. UNDER NO CIRCUMSTANCES SHALL DRILLING FLUID BE DEPOSITED IN WATER BODIES OR WETLANDS, ANY DRILLING FLUID WHICH INADVERTENTLY SURFACES AT POINTS OTHER THAN THE ENTRY OR EXIT POINTS SHALL BE CONTAINED AND COLLECTED TO THE EXTENT PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH CONTRACT DOCUMENTS AND/OR PERMIT CONDITIONS. ALL DISPOSAL LOCATIONS SHALL BE REVIEWED AND APPROVED BY DUKE ENERGY IN ADVANCE.
- WATER FOR DRILLING FLUID AND HYDROSTATIC TEST WATER SHALL BE OBTAINED FROM AN APPROVED SOURCE.
- PRE-INSTALLATION AND POST-INSTALLATION HYDROSTATIC TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE HYDROSTATIC TEST PLAN. TEST WATER SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH PERMIT REQUIREMENTS.
- THE HDD CONTRACTOR SHALL SUBMIT WITH THEIR HDD WORK PLAN AN ASSESSMENT OF THE POTENTIAL FOR HOLE INSTABILITY AND THEIR PROPOSED MITIGATION MEASURES SHOULD HOLE INSTABILITY IMPACT DRILLING OPERATIONS AND/OR INCREASE THE RISK OF A FAILED INSTALLATION.
- THE HDD CONTRACTOR SHALL MAKE ALL REASONABLE ATTEMPTS TO MAINTAIN DRILLING FLUID RETURNS DURING PILOT HOLE AND REARING OPERATIONS.
- THE DRILLING FLUID PROPERTIES SHALL BE TESTED A MINIMUM OF THREE (3) TIMES PER SHIFT SO THE SUITABILITY OF THE DRILLING FLUID FOR THE GIVEN CONDITIONS CAN BE DETERMINED.
- ALL DRILL PIPE UTILIZED ON THE PROJECT MUST BE INSPECTED AND DRILL PIPE INSPECTION RECORDS FURNISHED TO DUKE ENERGY PRIOR TO USE ON THE PROJECT. THE DRILL PIPE SHALL NOT HAVE BEEN USED ON ANOTHER PROJECT SUBSEQUENT TO ITS LAST INSPECTION.

PILOT HOLE REQUIREMENTS

- AT ALL TIMES THE HDD CONTRACTOR SHALL PROVIDE AND MAINTAIN INSTRUMENTATION TO DOCUMENT AND ACCURATELY LOCATE THE PILOT HOLE. THIS EFFORT SHALL INCLUDE THE USE OF A DEDICATED STEERING TOOL AS WELL AS A SECONDARY SURVEY SYSTEM (TRIPTRACK, PARATRACK, OR EQUIVALENT). THE HDD CONTRACTOR WILL NOT BE ALLOWED TO DRILL ANY PORTION OF THE PILOT HOLE WITHOUT THE USE OF A SECONDARY SURVEY SYSTEM UNLESS AGREED TO IN ADVANCE BY THE COMPANY OR IN EVENT A HYDROSTATIC STEERING TOOL IS UTILIZED.
- NO CASE WILL THE PILOT HOLE BE ACCEPTABLE IF ITS LOCATION WOULD RESULT IN THE PIPELINE BEING INSTALLED IN VIOLATION OF THE RIGHT-OF-WAY AND PERMIT STIPULATIONS SECTION OF THE CONTRACT AND FEDERAL, STATE, OR LOCAL PERMIT REQUIREMENTS OR REQUIRED CLEARANCES BETWEEN COMPANY AND FOREIGN OWNED UTILITIES AND STRUCTURES.
- PRIOR TO REARING, THE CONTRACTOR SHALL SUBMIT ASSEMBLED DATA AND CALCULATED LOCATION TO THE COMPANY FOR APPROVAL OF THE PILOT HOLE.

REARING REQUIREMENTS

- AFTER COMPLETION OF THE PILOT HOLE, THE HDD CONTRACTOR SHALL MAINTAIN A CONTINUOUS STRING OF DRILL PIPE DOWNHOLE BETWEEN ENTRY AND EXIT AT ALL TIMES EXCEPT WHEN RE-INSTALLING A CONTINUOUS STRING OF DRILL PIPE IN THE EVENT OF A TIE-UP OCCURRING.
- THE HDD CONTRACTOR SHALL COMPLETE AT A MINIMUM ONE (1) SHIM PASS TO EVALUATE THE CONDITION OF THE HDD PIPISTON TO PULLBACK OPERATIONS. THE HDD CONTRACTOR SHALL MEET WITH DUKE ENERGY AND REVIEW THE DATA COLLECTED DURING THE REARING AND SHIM PHASES BEFORE PULLBACK OPERATIONS BEGIN.

INSTALLATION REQUIREMENTS

- CONTRACTOR SHALL SUPPLY A PULLBACK LIFTING PROCEDURE, INCLUDING SUPPORT SPACING AND HEIGHT, AS PART OF THEIR FINAL HDD WORK PLAN.
- CONTRACTOR SHALL ASSESS THE NEED FOR AND SUPPLY APPROPRIATE BALLAST DURING PULLBACK.
- THE MINIMUM ALLOWABLE RADIUS OF CURVATURE FOR HANDLING AND POSITIONING THE CARRIER PIPE IN PREPARATION FOR PULLBACK OPERATIONS IS 1,000 FEET. THE HDD CONTRACTOR SHALL PROVIDE WITH THEIR HDD WORK PLAN THE MAXIMUM ANTICIPATED PULL FORCE REQUIRED TO INSTALL THE CARRIER PIPE AND THE MAXIMUM ALLOWABLE PULL FORCE THAT CAN BE APPLIED TO THEIR DOWNHOLE TOOLING.

POST-INSTALLATION REQUIREMENTS

- THE HDD CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING AN AS-BUILT DRAWING OF THE PILOT HOLE SURVEY DATA WITHIN TWO WEEKS OF THE COMPLETION OF PULLBACK OPERATIONS. THIS SHALL INCLUDE A TABULATION OF THE SUPPORTING AS-BUILT SURVEY DATA USED TO GENERATE THE DRAWING.
- UPON COMPLETION OF INSTALLATION, A CALIBER RIG SURVEY SHALL BE COMPLETED IN ACCORDANCE WITH CONTRACT DOCUMENTS.

MATERIAL CLASS / MAP CLASS 4 / MAP 535 P53G

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REF. DWG(S) PNG-G-XXX-0001000

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 01/13/2021 SUPERSEDED

DRAWING NUMBER PNG - C-XXX-0001200 A

REVISION

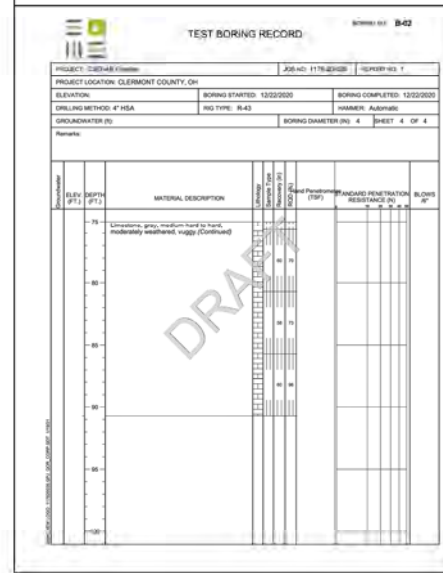
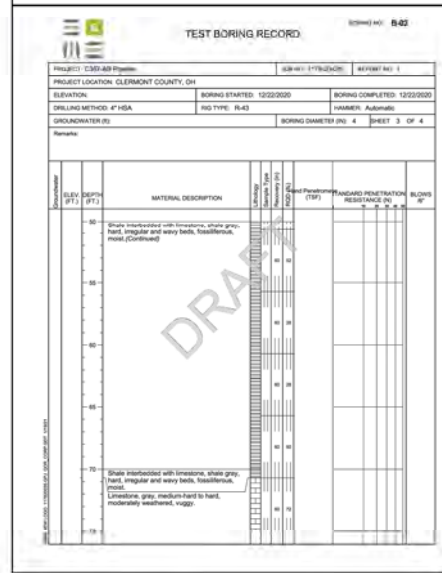
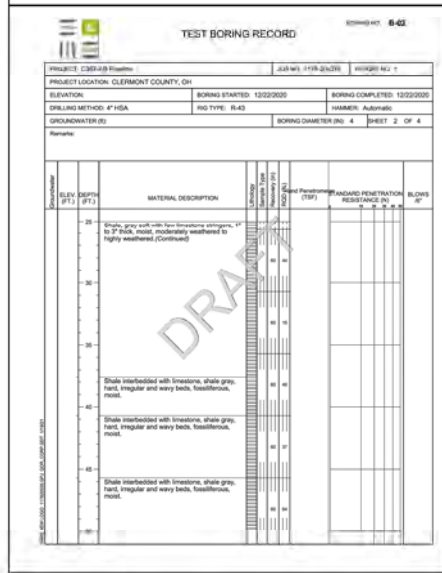
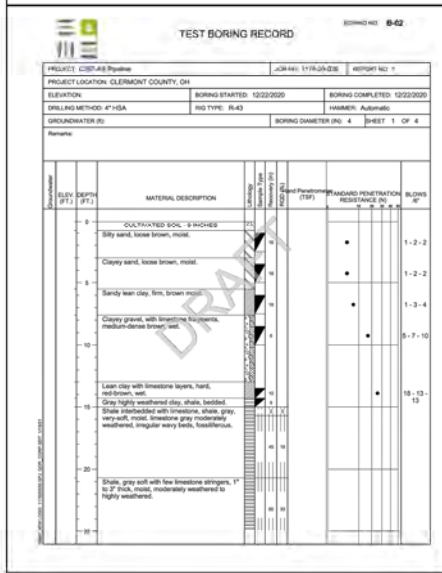
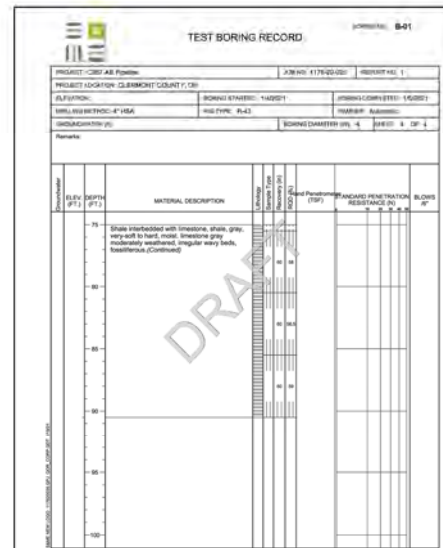
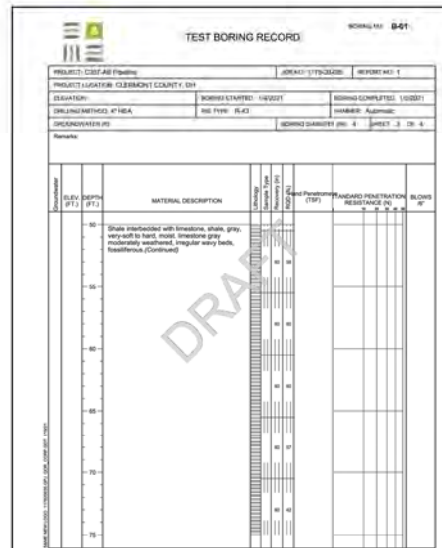
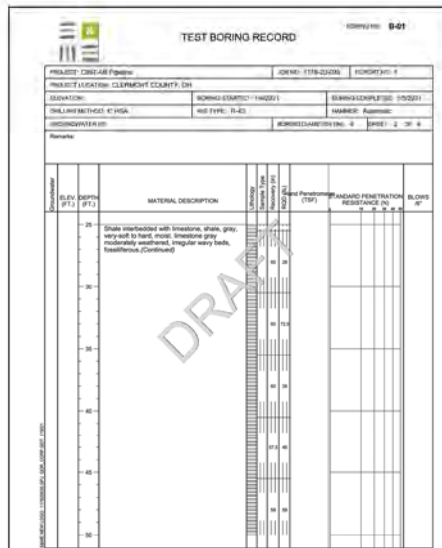
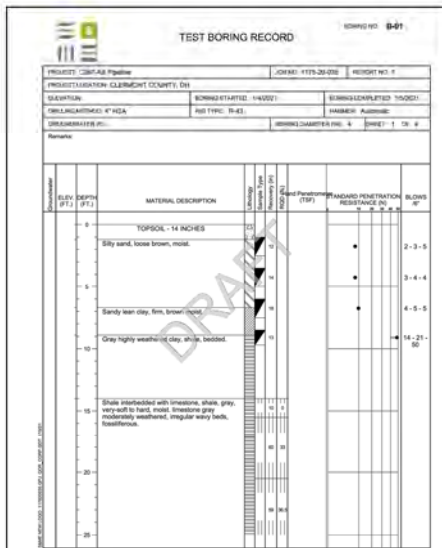
CHECKLOGG0367

C367 PIPELINE
LITTLE MIAMI RIVER HDD ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

DUKE ENERGY **Piedmont Natural Gas**

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NO.	DATE	REVISION / DESCRIPTION	BY	CHK	APPV	DESCRIPTION	APPROVALS	REGIONAL ENGINEER
A	02-19-2021	60% DESIGN FOR OPS&M	AKT	AMP	CNS	AREA CODE PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	AW1982 AW1982 AKT AMP	MGR TECH REC & STD PRINCIPAL ENGINEER



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NO.	DATE	REVISION DESCRIPTION	BY	CHK	APPROV	DESCRIPTION	DATE	APPROVALS
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						DRAWING BY: AKT		
						STATION ID:		
						CHECKER INITIALS: AMP		

PROFESSIONAL ENGINEER

DUKE ENERGY

Piedmont Natural Gas

PROFESSIONAL ENGINEER

C367 PIPELINE
GEOTECH BORE LOG 1
CLERMONT COUNTY, OH

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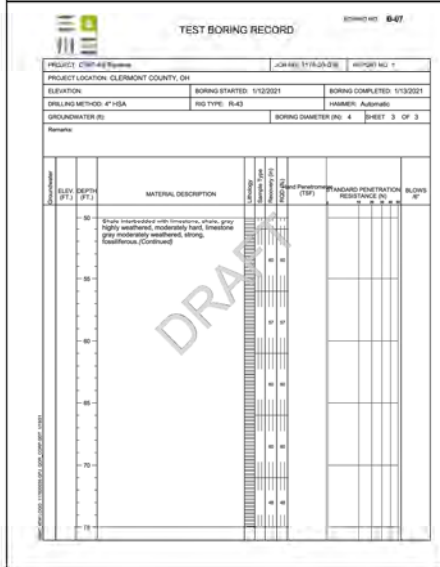
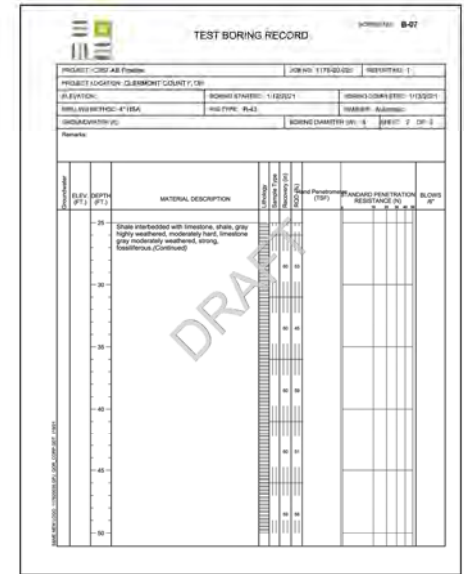
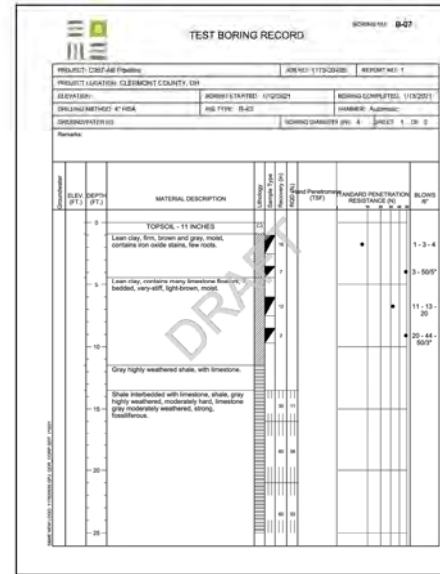
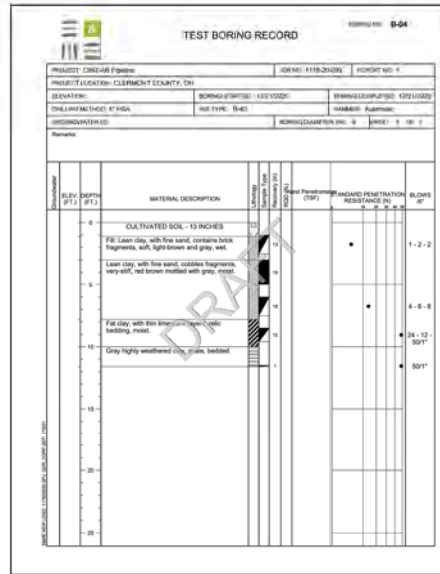
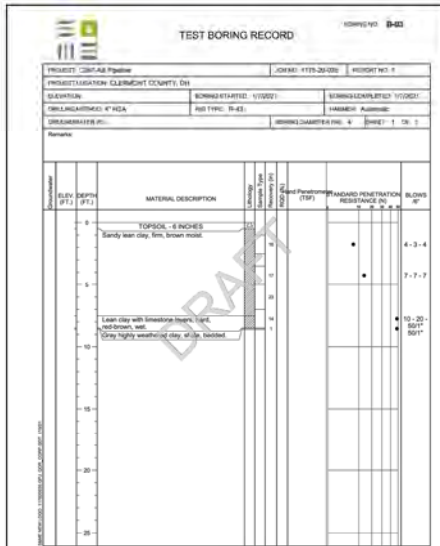
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DWG DATE 01/20/2021 SUPERSEDED

DRAWING NUMBER REVISION

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A	02-18-2021	60% DESIGN FOR OPSB	AKT	AMP	CNS	AREA CODE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE</td> <td>INITIALS</td> <td>PRINCIPAL ENGINEER</td> </tr> <tr> <td>DATE</td> <td>INITIALS</td> <td>MECH TECH REC & STD</td> </tr> <tr> <td>DATE</td> <td>INITIALS</td> <td>PRINCIPAL ENGINEER</td> </tr> </table>	DATE	INITIALS	PRINCIPAL ENGINEER	DATE	INITIALS	MECH TECH REC & STD	DATE	INITIALS	PRINCIPAL ENGINEER
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DATE	INITIALS	MECH TECH REC & STD														
DATE	INITIALS	PRINCIPAL ENGINEER														

C367 PIPELINE
GEOTECH BORE LOG 2
CLERMONT COUNTY, OH

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DWG DATE 01/20/2021	SUPERSEDED	
DRAWING NUMBER		REVISION
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INSTALLATION:

1. ASKTO #2 (1.5-2.5 INCH) STONE OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT A MINIMUM 6-INCH THICKNESS FOR LIGHT DUTY USE OR AT LEAST 10-INCH THICKNESS FOR HEAVY-DUTY USE.
2. THE ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS (30-FT MINIMUM ON A SINGLE RESIDENTIAL LOT; 70-FT MINIMUM ELSEWHERE).
3. A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 lbs.
MINIMUM PUNCTURE STRENGTH	80 lbs.
MINIMUM TEAR STRENGTH	50 lbs.
MINIMUM BURST STRENGTH	320 lbs.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EQS < 0.075 mm
PERMEABILITY	1X10⁻¹⁰ cm/sec
4. IF NEEDED, A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OUT ONTO PAVED SURFACES.
5. IF NEEDED, A WATER BAR SHALL BE CONSTRUCTED TO PREVENT SURFACE WATER FROM FLOWING ALONG THE LENGTH OF THE ENTRANCE UT ONTO PAVED SURFACE.

MAINTENANCE:

1. TOP DRESS WITH ADDITIONAL STONE AS SITE CONDITIONS DEMAND.
2. REMOVE MUD TRACKED ONTO PUBLIC STREETS IMMEDIATELY VIA SCRAPING OR SWEEPING.
3. ENSURE THE ENDS OF A TEMPORARY CULVERT PIPE (IF UTILIZED) ARE NOT BLOCKED AND THAT THE PIPE IS FREE OF DEBRIS THROUGHOUT.

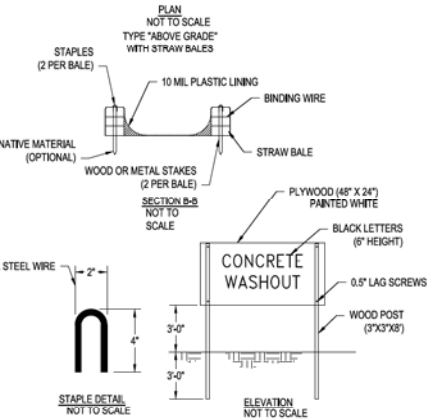
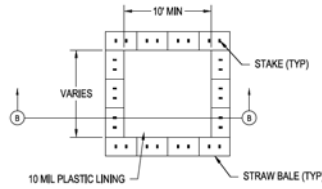
REMOVAL:

1. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.
2. PULL OUT ALL CONSTRUCTION ENTRANCE MATERIAL AND PROPERLY DISPOSE OF OFF-SITE. STONE CAN BE BLENDED INTO THE SURROUNDING LANDSCAPE AS SITE CONDITIONS ALLOW.
3. RE-GRADE THE AREA AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

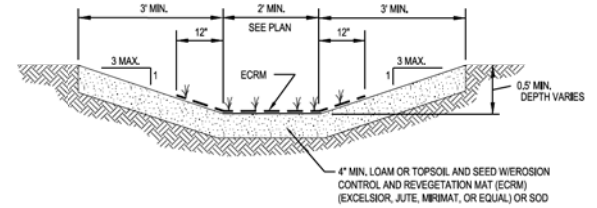
NOTES:

1. CONCRETE WASHOUT WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WASHOUT CONVEYANCE.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED ADJACENT TO THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. WASHOUT PIT MUST BE INSPECTED FREQUENTLY TO ENSURE LINER IS INTACT.
4. ONCE 75% OF ORIGINAL PIT VOLUME IS FILLED OR LINER IS TORN, MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF ONCE HARDENED. LINER SHALL BE REPLACED IF TORN.

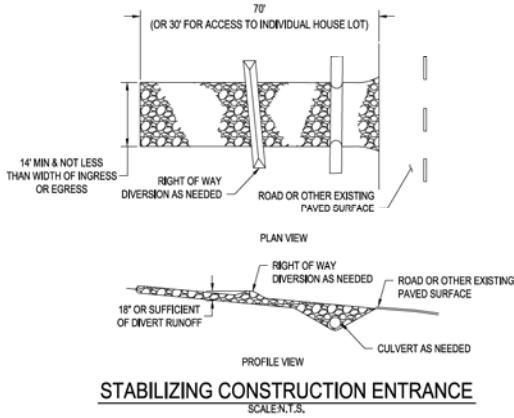
MINIMUM TENSILE STRENGTH	200 lbs.
MINIMUM PUNCTURE STRENGTH	80 lbs.
MINIMUM TEAR STRENGTH	50 lbs.
MINIMUM BURST STRENGTH	320 lbs.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EQS < 0.075 mm
PERMEABILITY	1X10⁻¹⁰ cm/sec



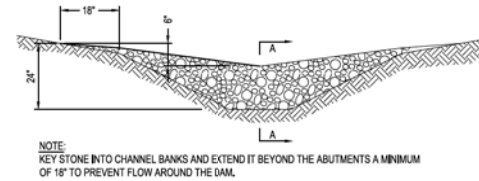
CONCRETE WASHOUT AREAS
SCALE: N.T.S.



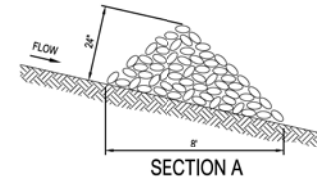
SWALE CROSS SECTION
SCALE: N.T.S.



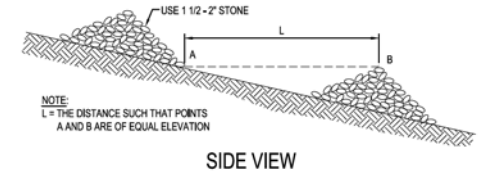
STABILIZING CONSTRUCTION ENTRANCE
SCALE: N.T.S.



VIEW LOOKING UPSTREAM



SECTION A



SIDE VIEW

ROCK DITCH CHECK
SCALE: N.T.S.

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					PROJECT NUMBER	AW1982		
					DRAWING BY	AKT		
					STATION ID			
					CHECKER INITIALS	AMP		

REGIONAL PROJECT MGR: TECH REC & STD

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE
EROSION SEDIMENT CONTROL DETAILS 1
CLERMONT COUNTY, OHIO
KELLOGG, OH

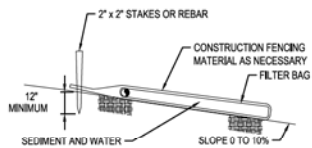
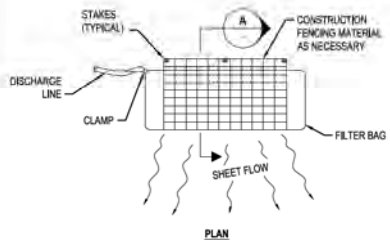
REGIONAL PROJECT MGR: TECH REC & STD

PRINCIPAL ENGINEER

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SHEET(S) 3 OF 5 | DWG SCALE AS NOTED | DWG DATE 10/12/2020 | SUPERSEDED | DRAWING NUMBER PNG -C-XXX-0001500 | REVISION B

PROFESSIONAL ENGINEER STAMP

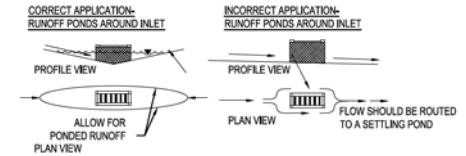
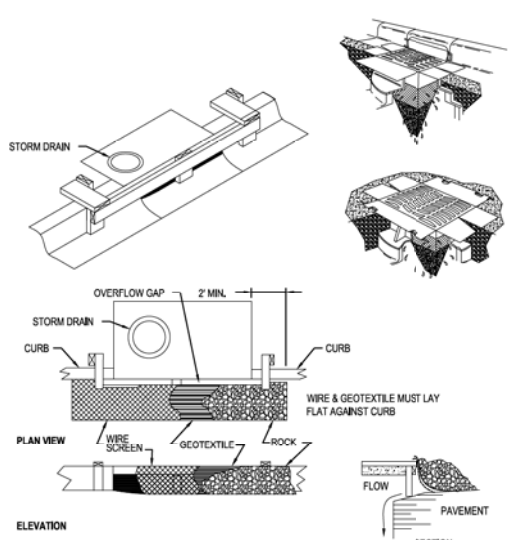


TYPICAL GEOTEXTILE FILTER BAG FOR DEWATERING

SCALE: 1/8" = 1'-0"

NOTES:

1. INSTALL A DEWATERING GEOTEXTILE FILTER BAG AS DIRECTED BY THE COMPANY'S INSPECTOR TO PREVENT THE FLOW OF HEAVILY SILT LADEN WATER INTO WATERBODIES OR WETLANDS.
2. DISCHARGE SITE SHALL BE WELL VEGETATED AND THE TOPOGRAPHY OF THE SITE SUCH THAT WATER WILL FLOW AWAY FROM ANY WORK AREAS, THE AREA DOWN SLOPE FROM THE DEWATERING SITE MUST BE REASONABLY FLANK OR STABILIZED BY VEGETATION OR OTHER MEANS TO ALLOW THE FILTERED WATER TO CONTINUE AS SHEET FLOW.
3. TO ATTACH THE DISCHARGE HOSE, CUT A CORNER OF THE BAG, INSERT DISCHARGE HOSE, AND SECURE THE HOSE TO THE BAG.
4. A SINGLE FILTER BAG SHOULD NOT BE USED FOR FLOWS GREATER THAN 600 GALLONS PER MINUTE.
5. REPLACE FILTER BAG BEFORE IT IS COMPLETELY FILLED WITH SEDIMENT. MONITOR DISCHARGE TO AVOID OVER PRESSURING DUE TO PLUGGING, WHICH MAY RESULT IN RUPTURE.
6. DISPOSE OF USED FILTER BAG AND SEDIMENT AT A SITE APPROVED BY THE COMPANY'S INSPECTOR.



INLET PROTECTION FOR CURB DRAINS & YARD DRAINS SITUATED ON A SLOPE:

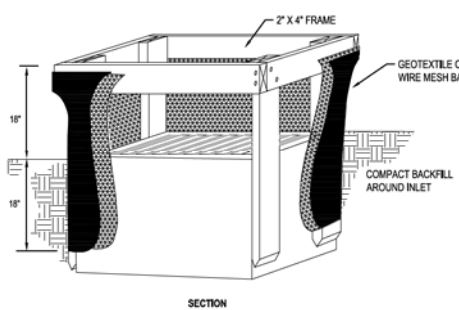
- INSTALLATION:**
1. REMOVE THE GRATE FROM THE CATCH BASIN.
 2. INSERT THE FILTRATION SACK INTO OPENING OF CATCH BASIN. SOME PRODUCTS REQUIRE THE FILTRATION SACK BE SLIPPED OVER THE CATCH BASIN GRATE FIRST.
 3. REINSERT GRATE INTO CATCH BASIN WHILE ENSURING ALL NECESSARY SUPPORT STRAPS TO PROVIDE SUPPORT AND ENSURE THE FILTRATION SACK DOES NOT FALL INTO CATCH BASIN AS IT FILLS WITH SEDIMENT.

- MAINTENANCE:**
1. THE FILTRATION SACK MUST BE EMPTIED WHEN IT IS 1/2RD FULL OF SEDIMENT AND DEBRIS. SACKS ARE TYPICAL MANUFACTURED WITH LIFTING STRAPS AND DUMPING STRAPS.
 2. TO EMPTY THE SACK, REMOVE THE GRADE, LIFT THE SACK OUT OF THE CATCH BASIN VIA THE LIFTING STRAPS AND HAUL IT TO AN APPROPRIATE AREA. TURN IT INSIDE OUT WITH THE DUMPING STRAPS PROVIDED.
 3. THE FILTRATION SACK MUST BE REPLACED IF IT IS TORN, OTHERWISE THE SAME SACK CAN BE USED MULTIPLE TIMES.
 4. THE CONTRACTOR IS REQUIRED TO HAVE STAGED REDUNDANT CONTROLS ONSITE IN THE EVENT REPLACEMENTS ARE NEEDED.

- INSPECTION:**
1. INLET PROTECTION MEASURES MUST BE INSPECTED AT LEAST 12-HOURS PRIOR TO RAIN EVENTS, IN ADDITION TO THE WEEKLY AND POST-RAIN EVENT INSPECTIONS. NON-FUNCTIONAL DEVICES MUST BE REPLACED.

- REMOVAL:**
1. PULL OUT ALL INLET PROTECTION MATERIAL AND PROPERLY DISPOSE OF OFF-SITE.
 2. RE-GRADE AREA WHERE ACCUMULATED SEDIMENT HAS BEEN PLACED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

THE FOLLOWING DIAGRAMS PROVIDE A GENERAL IDEA OF HOW TO INSTALL AND MAINTAIN A VARIETY OF MANUFACTURED STORM DRAIN INLET PROTECTION PRACTICES. BE SURE TO IMPLEMENT FILTRATION SACKS THAT ARE APPROPRIATE FOR EITHER CURB INLETS OR FOR YARD DRAIN INLETS. MANUFACTURERS SPECIFICATIONS FOR THE PRODUCT OF CHOICE SHOULD BE FOLLOWED.



DROP INLET PROTECTION

SCALE: 1/8" = 1'-0"

INSTALLATION:

1. CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
2. CONSTRUCT WOODEN FRAME FROM 2"x4" LUMBER. DRIVE POSTS 1" INTO THE GROUND AT EACH CORNER DIRECTLY AGAINST THE CONCRETE BOX AND ASSEMBLE THE TOP FRAME WITH AN OVERLAP JOINT SHOWN BELOW. THE TOP FRAME SHALL BE SET AT AN ELEVATION THAT DOES NOT CAUSE PONDED WATER TO BACKUP INTO UNWANTED AREAS.
3. THE WIRE MESH AND GEOTEXTILE SHALL BE TIGHTLY STRETCHED AND FASTENED TO THE FRAME.
4. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
5. BACKFILL SHALL BE PLACED IN THE 18" TRENCH AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE ELEVATION OF THE TOP OF THE GRATE IS REACHED.

MAINTENANCE:

1. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE PRACTICE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE INLET VIA SURFACE RUNOFF.
2. REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
3. AREA WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT)

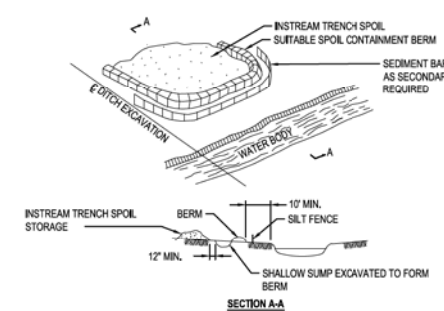
REMOVAL:

1. PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.
2. RE-GRADE AREA SEDIMENT HAS ACCUMULATED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

ALTERNATIVE MANUFACTURED YARD DRAIN INLET PROTECTION PRODUCTS ARE AVAILABLE AND CAN BE USED, SUBJECT TO PRIOR APPROVED BY THE COMMUNITY ENGINEER.

CURB INLET PROTECTION

SCALE: 1/8" = 1'-0"



NOTES:

1. SOIL CONTAINMENT BERMS ARE TO BE USED WHERE INSTREAM TRENCH SPOIL COULD REENTER THE WATERCOURSE DIRECTLY OR INDIRECTLY AND WITH SIMULTANEOUS UTILIZATION OF SEDIMENT BARRIERS IF REQUIRED.
2. MATERIAL USED FOR THE CONTAINMENT BERM SHOULD BE A MINIMUM OF 10 FT. FROM THE WATERS EDGE. IT SHOULD BE KEPT TO A HEIGHT WHICH REMAINS STABLE DURING THE CONSTRUCTION PERIOD.
3. CARE SHOULD BE TAKEN THAT THE SPOIL PILE DOES NOT OVERTOP THE CONTAINMENT BERM.
4. THE CONTAINMENT BERM SHOULD BE DISMANTLED AND THE SITE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE WATER CROSSING.
5. WHERE POSSIBLE, RIPARIAN VEGETATION SHALL BE LEFT IN PLACE.
6. STAGED MOVEMENT OF INSTREAM SPOIL MAY BE REQUIRED IF QUANTITIES ARE EXCESSIVE.
7. CARE AND ATTENTION MUST BE TAKEN TO ENSURE SPOIL CONTAINMENT BERMS ARE MAINTAINED.
8. FULL CONSIDERATION FOR OVERALL SLOPE STABILITY IS REQUIRED WHEN SELECTING A SPOIL CONTAINMENT LOCATION.

TYPICAL TEMPORARY SOIL CONTAINMENT BERM FOR WATERBODY TRENCH SPOILS

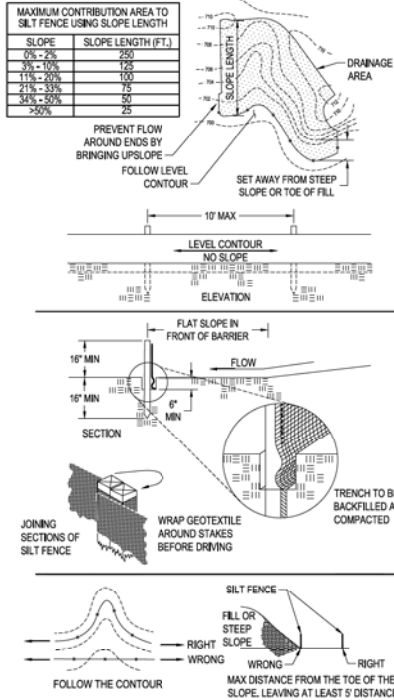
SCALE: 1/8" = 1'-0"

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PNL DATE A 12-18-2020 B 10-19-2021	REVISION/DESCRIPTION REVISED 30% DESIGN 00% DESIGN FOR OFPSE	BIT DATE (APPX) AKT AMP CNS	DESCRIPTION AREA CODE ACCOUNT NUMBER PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	DATE DATE DATE	APPROVALS INITIALS INITIALS INITIALS	REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	DUKE ENERGY Piedmont Natural Gas	C367 PIPELINE EROSION SEDIMENT CONTROL DETAILS 2 CLERMONT COUNTY, OHIO KELLOGG, OH	SHEET(S) 3 OF 5 DWG SCALE AS NOTED DWG DATE 10/12/2020 SUPERSEDED DRAWING NUMBER REVISION	PNG -C-XXX-0001501 B	COPYRIGHT 2009	C367 KELLLOGG	

- INSTALLATION:**
- CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
 - PLACE CONTINUOUS LENGTHS OF SILT FENCE ALONG A CONSISTENT CONTOUR SO AS TO PREVENT THE CONCENTRATION OF RUNOFF AT LOW POINTS IN THE FENCE.
 - TO PREVENT FLOW AROUND ENDS, EXTEND EACH OF A CONTINUOUS LENGTH OF SILT FENCE UPSLOPE 90° TO THE CONTOUR) SO THE ENDS ARE AT A HIGHER ELEVATION OR 20-FEET IN HORIZONTAL DISTANCE, WHICHEVER IS ACHIEVED FIRST.
 - AT A MINIMUM, THE BOTTOM 8-INCHES OF THE SILT FENCE MATERIAL MUST BE PLACED IN A TRENCH (MINIMUM 6-INCH DEPTH) THAT IS CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE. THE TRENCH SHALL NOT BE CONSTRUCTED WITH THE TILT BLADE OF A BULLDOZER.
 - THE TRENCH MUST BE BACKFILLED WITH SOIL AND PROPERLY COMPACTED. WHEN AGGRESSIVELY PULLED UPWARD BETWEEN TWO CONSECUTIVE STAKES, THE MATERIAL SHOULD NOT PULL OUT OF THE GROUND.
 - STAKES (MIN. 32-INCH LENGTH, 2"X2" HARDWOOD OF GOOD QUALITY) MUST BE PALCED ON THE DOWNSLOPE SIDE OF THE SILT FENCE MATERIAL.
 - SILT FENCE MATERIAL MUST BE PULLED TIGHT BETWEEN CONSECUTIVE STAKES TO ENSURE THE FENCE DOES NOT SAC.
 - WHEN IT IS NECESSARY TO JOIN TWO SEPARATE LENGTHS OF SILT FENCE TO FORM A CONTINUOUS RUN, THE END OF TWO SEPARATE LENGTHS MUST BE JOINED TOGETHER BY FIRST OVERLAPPING THEM AND THEN TWISTING THEM TOGETHER AT LEAST 180° PRIOR TO DRIVING THE STAKES INTO THE GROUND.
 - GRADES IN EXCESS OF 10% REQUIRE SILT FENCE TO BE "J-HOOKED" AS DESCRIBED IN THE SWPPP DOCUMENT.

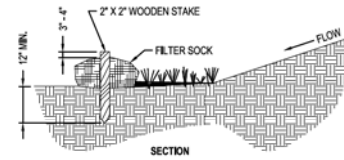
- MAINTENANCE:**
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3RD THE HEIGHT OF THE SILT FENCE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE SILT FENCE VIA SURFACE RUNOFF.
 - REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
 - AREAS WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT).

- REMOVAL:**
- PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.
 - RE-GRADE AREA WHERE SEDIMENT HAS ACCUMULATED AS NECESSARY AND ESTABLISH VEGETATION IN ANY RESULTING DISTURBED AREAS.



SILT FENCE

SCALE: N.T.S.



NOTES:

- ALL FILTER SOCK MUST BE 12-INCH COMPOST FILTER SOCK OR THE ENGINEERED EQUIVALENT.
- MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
- FILTER SOCKS SHALL BE 3 OR 5 MIL. CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION:

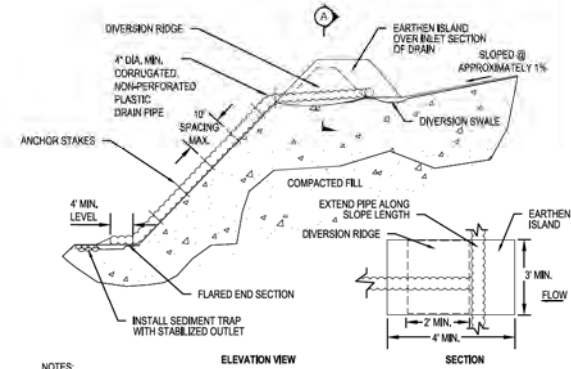
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
- FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
- FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

FILTER SOCK

SCALE: N.T.S.



NOTES:

- THE SLOPE DRAIN SHALL BE CONSTRUCTED/LENGTHENED WITH THE CONSTRUCTION OF THE FILL SLOPE. AS A RESULT, INLET ELEVATIONS WILL VARY ACCORDING TO GRADE ELEVATIONS AT THE TIME OF CONSTRUCTION.
- INSPECT SLOPE DRAIN AND SUPPORTING DIVERSIONS AFTER EVERY RAINFALL EVENT AND MAKE NECESSARY REPAIRS FOR PROPER OPERATION OF THE SYSTEM.
- UPON PROJECT COMPLETION, REMOVE THE SLOPE DRAIN AND PROPERLY STABILIZE ALL DISTURBED AREAS.

TEMPORARY SLOPE DRAIN

SCALE: N.T.S.

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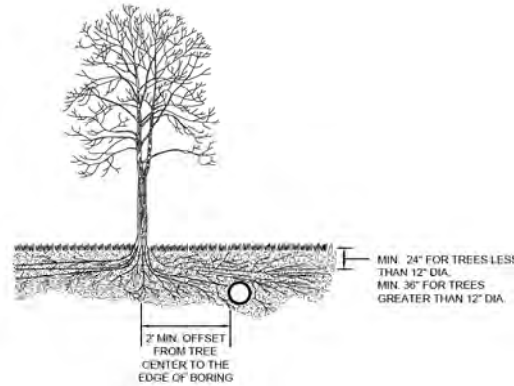
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MGR TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE

C367 PIPELINE
EROSION SEDIMENT CONTROL DETAILS 3
CLERMONT COUNTY, OHIO
KELLOGG, OH
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SHEET(S) 3 OF 5	DWG SCALE AS NOTED
DWG DATE 10/12/2020	SUPERSEDED
DRAWING NUMBER	REVISION
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PRESERVATION OF NATURAL VEGETATION

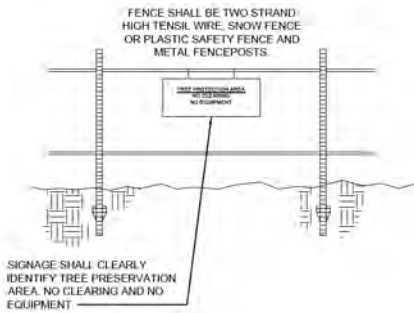
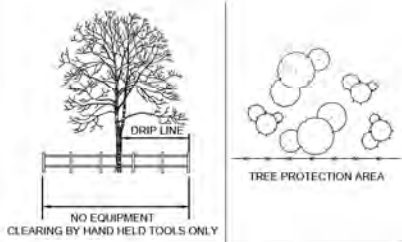
1. AREAS WHERE NATURAL VEGETATION IS TO BE PRESERVED, INCLUDING TREES, SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS
2. ACCEPTABLE FENCE MATERIALS INCLUDE PLASTIC FENCE OR SNOW FENCE ANCHORED TO METAL FENCE POSTS.
3. SIGNAGE SHALL CLEARLY IDENTIFY THE PROTECTION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
4. FENCE SHALL REMAIN AROUND PROTECTION AREAS UNTIL AFTER FINAL GRADING HAS BEEN COMPLETED.
5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT



CROSS SECTION

TREE PRESERVATION AREA DURING BORING

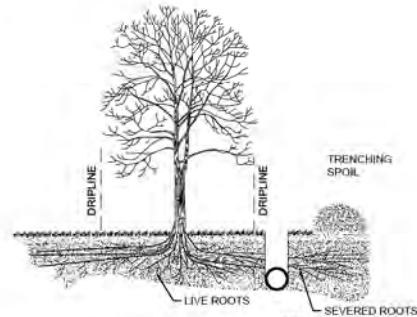
SCALE: N.T.S.



CROSS SECTION

TREE PRESERVATION AREA

SCALE: N.T.S.



CROSS SECTION

TREE PRESERVATION AREA BEFORE TRENCHING

SCALE: N.T.S.

NOTE:
1. SPOIL TO BE LOCATED OUTSIDE THE DRIPLINE.

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B	12-19-2021	100% DESIGN FOR OF/SE

BY	CHK	APPV	DESCRIPTION
AKT	AMP	CNS	AREA CODE
AKT	AMP	CNS	ACCOUNT NUMBER
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

APPROVALS	
DATE	INITIALS
DATE	INITIALS
DATE	INITIALS

REGIONAL MANAGER

MGR. TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

Piedmont Natural Gas

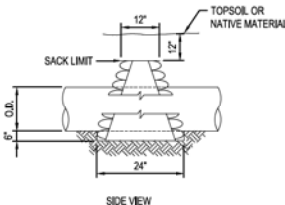
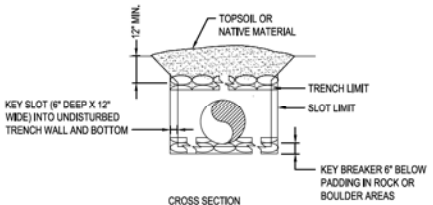
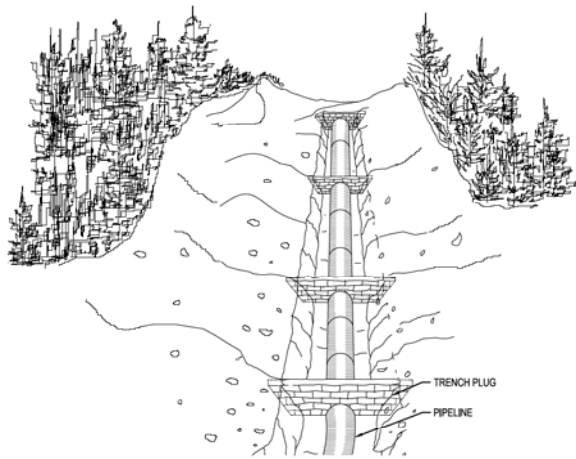
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SHEET(S)	3 OF 5	DWG SCALE	AS NOTED
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001503		REVISION
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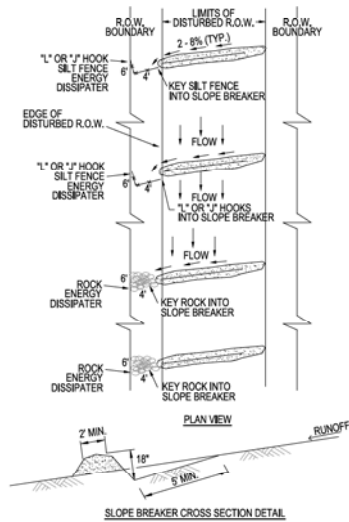
PROFESSIONAL ENGINEER STAMP



NOTES:

- TRENCH PLUGS SHALL BE INSTALLED:
 - ON SLOPES ALONG THE TRENCH LINE WHERE THE NATURAL DRAINAGE PATTERN, PROFILE, AND TYPE OF BACKFILL MATERIAL MAY RESULT IN LOSS OF BACKFILL MATERIAL OR ALTERATION OF THE NATURAL PATTERN.
 - AT THE BASE OF SLOPES ADJACENT TO WATERBODIES AND WETLANDS.
 - WHERE NEEDED TO AVOID DRAINING A WETLAND.
 - ON UPLAND SLOPES, AT THE SAME SPACING AS SLOPE BREAKERS AND UP SLOPE OF SLOPE BREAKERS.
 - IN CULTIVATED LAND AND RESIDENTIAL AREAS WHERE PERMANENT SLOPE BREAKERS ARE NOT TYPICALLY INSTALLED, AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED.
- PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH DUKE CONSTRUCTION STANDARDS AND AS DIRECTED
 - BY COMPANY'S INSPECTOR. SACK BREAKS SHALL UTILIZE OPEN WEAVE HEMP OR JUTE SACKS FILLED WITH MINIMUM OF 5SLSB OF SUBSOIL, SAND OR A MIXTURE OF 1 PART CEMENT TO 6 PARTS SAND OR SUBSOIL AS DETERMINED BY COMPANY'S INSPECTOR.
 - POLYURETHANE FOAM BREAKERS MAY BE USED IN-LEU-OF SACK BREAKERS, WHEN APPROVED BY COMPANY'S REPRESENTATIVE.
- PLUG SPACING AND CONFIGURATION MAY BE CHANGED AS DIRECTED BY COMPANY. DEPTH OF DITCH MAY VARY WITH SITE CONDITIONS.
- ALL MATERIALS SHALL BE SUPPLIED BY CONTRACTOR.

TYPICAL TRENCH PLUG
SCALE: N.T.S.



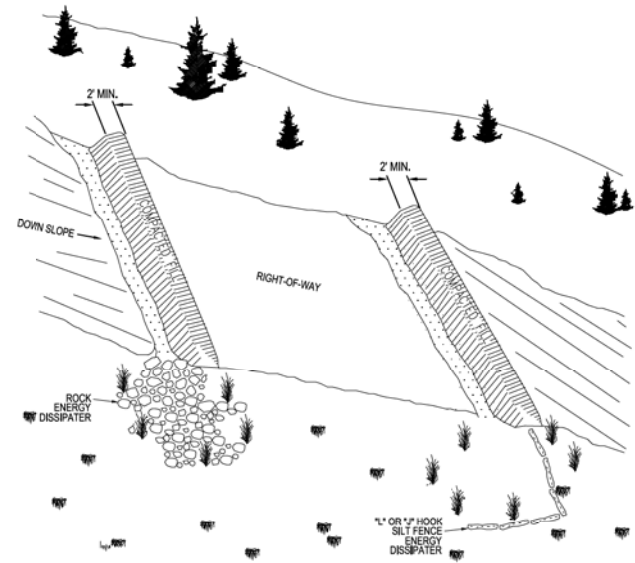
SLOPE BREAKER CROSS SECTION DETAIL

NOTES:

- SLOPE BREAKERS SHALL BE CONSTRUCTED OF COMPACTED NATIVE SOIL AND INSTALLED AT LOCATIONS AS REQUIRED BY DUKE CONSTRUCTION STANDARDS OR AS DIRECTED BY THE COMPANY'S REPRESENTATIVE.
- SLOPE BREAKERS SHALL BE ORIENTED AS SHOWN OR OTHER PATTERN AS DIRECTED BY THE COMPANY'S REPRESENTATIVE TO DIRECT THE WATER OFF THE RIGHT-OF-WAY.
- SLOPE BREAKERS SHALL BE CONSTRUCTED AT 2-4% GRADIENT ACROSS THE SLOPE.
- THE SLOPE BREAKERS SHALL BE 18" DEEP (AS MEASURED FROM THE TROUGH TO THE TOP OF THE SLOPE BREAKER), THE TROUGH WILL BE A MINIMUM OF 5' WIDE ACROSS THE WIDTH OF THE RIGHT-OF-WAY.
- THE OUTLET OF THE SLOPE BREAKER MUST FREELY DISCHARGE ALL RUNOFF OFF THE DISTURBED RIGHT-OF-WAY INTO AN ENERGY DISSIPATER.
- WHERE SLOPE BREAKERS EXTEND BEYOND THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY TO DIRECT RUNOFF INTO STABLE, WELL VEGETATED AREAS, THESE LOCATIONS MUST BE APPROVED BY THE COMPANY'S REPRESENTATIVE.

FLOW ENERGY DISSIPATER NOTES:

- THE OUTLET SHALL CONTAIN AN ENERGY DISSIPATER IF THE COMPANY'S INSPECTOR DETERMINES EXISTING VEGETATION IS NOT SUFFICIENTLY STABLE TO PREVENT EROSION. THE ENERGY DISSIPATER SHALL BE CONSTRUCTED AS FOLLOWS:
 - OUTFALL END OF DISSIPATER SHOULD BE LOWER THAN SLOPE BREAKER END.
 - SILT FENCE OR ROCK DISSIPATERS SHOULD BE KEYS INTO THE END OF THE SLOPE BREAKER.
 - PROVIDE ENOUGH AREA INSIDE 1" TO CAPTURE AND HOLD SEDIMENT.



TYPICAL SLOPE BREAKER
SCALE: N.T.S.

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REGIONAL ENGINEER

MGR TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

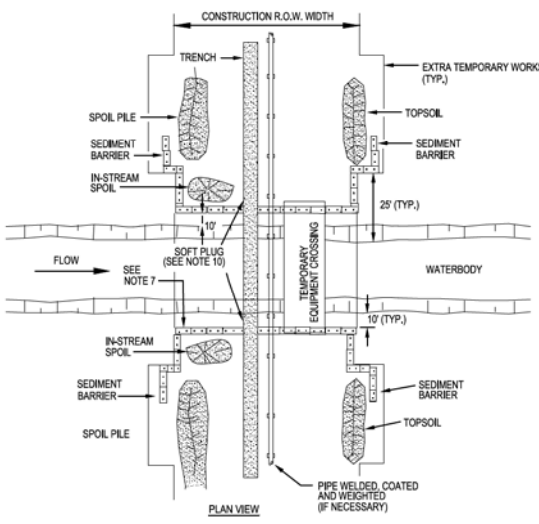
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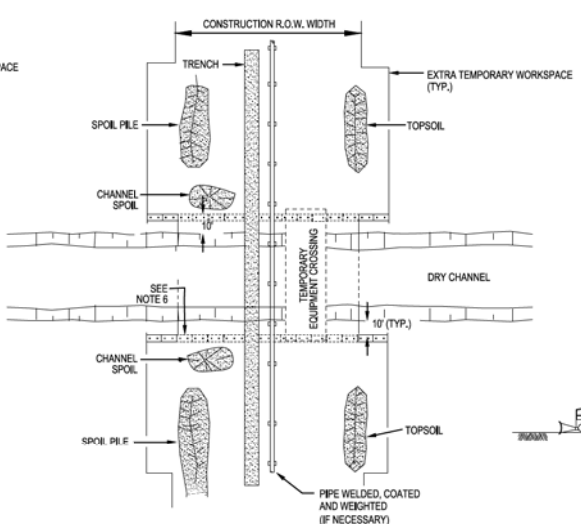
KELLOGG, OH

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DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-XXX-0001504		
REVISION	B		



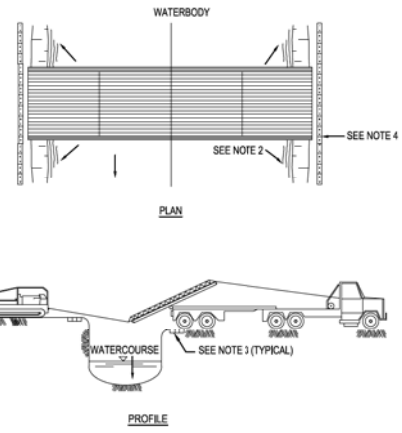
- NOTES:**
- METHOD APPLIES TO WATERBODIES THAT ARE NOT STATE-DESIGNATED FISHERIES WHERE FLUME CROSSINGS ARE NOT REQUIRED.
 - IF TOPOGRAPHY PERMITS TEMPORARY EQUIPMENT BRIDGE INSTALLATION, THE CONTRACTOR SHALL TRENCH, STRING, WELD, COAT, WEIGHT (IF NECESSARY), LOWER IN AND BACKFILL UTILIZING THE MAIN LINE CREW TRAVELING OVER THE BRIDGE.
 - IF TOPOGRAPHY PROHIBITS INSTALLATION OF A TEMPORARY EQUIPMENT BRIDGE, CONTRACTOR SHALL TRENCH UP TO BOTH SIDES OF CROSSING, STRING, WELD, COAT AND WEIGHT (IF NECESSARY) USING THE MAINLINE CREW, IN-STREAM EXCAVATION, LOWER IN, AND BACKFILL WILL UTILIZES A CLAM OR HOES WORKING FROM THE BANKS.
 - SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE. NO IN-STREAM WORK BETWEEN APRIL 15 AND JUNE 30.
 - COMPLETE ALL IN-STREAM ACTIVITIES WITHIN 24 HOURS IF FEASIBLE.
 - NO REFUELING OF MOBILE EQUIPMENT WITHIN 100 FEET OF WATERBODY. REFUEL STATIONARY EQUIPMENT AS PER THE SPC PLAN.
 - INSTALLATION OF TEMPORARY EQUIPMENT CROSSING IS REQUIRED AT ALL STATE-DESIGNATED FISHERIES AND STREAM CROSSINGS. IF A TEMPORARY EQUIPMENT CROSSING IS INSTALLED, IT MUST BE BUILT IN ACCORDANCE WITH SECTION PERMITS.
 - IN AGRICULTURAL LAND, STRIP TOPSOIL FROM SPOIL STORAGE AREA.
 - CONSTRUCT SEDIMENT BARRIERS ALONG THE SIDES OF STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
 - IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL A MINIMUM OF 10 FEET FROM THE WATERS EDGE AND WITHIN THE CONSTRUCTION R.O.W. UNLESS DEPICTED OTHERWISE IN SITE SPECIFIC CROSSING PLANS. TEMPORARY WORKSPACE MUST BE A MINIMUM OF 25' FROM THE WATERS EDGE.
 - TRENCH THROUGH WATERCOURSE USING MAINLINE EXCAVATION EQUIPMENT WHERE PRACTICAL.
 - INSTALL SOFT PLUGS AT THE EDGE OF STREAM BANKS UNTIL JUST PRIOR TO PIPE INSTALLATION TO CONTROL WATER FLOW & TRENCH SLOUGHING.
 - MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
 - BACKFILL WITH NATIVE MATERIAL.
 - RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
 - RESTORE STREAM BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
 - ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.
 - NO FORD CROSSINGS ARE PERMITTED.

TYPICAL FLOWING WATERBODY CROSSING OPEN CUT TRENCHED
SCALE: N.T.S.



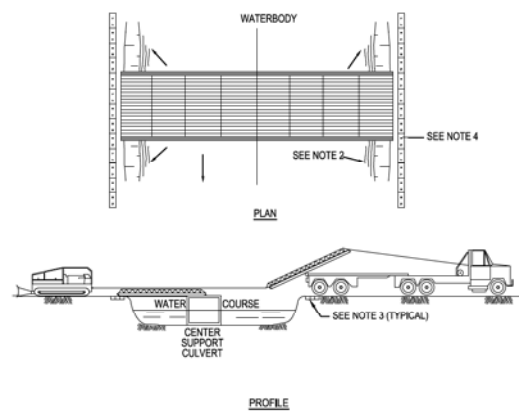
- NOTES:**
- METHOD APPLIES TO CROSSINGS WHERE NO FLOWING WATER IS PRESENT AT THE TIME OF CROSSING.
 - CONTRACTOR MAY "MAINLINE THROUGH" THE CROSSING OR UP TO BOTH SIDES OF THE CROSSING; STRING, WELD, COAT, AND WEIGHT (IF NECESSARY), USING THE MAINLINE CREW WITH THE PIPE SKIDDED OVER THE CROSSING.
 - NO REFUELING OF MOBILE EQUIPMENT WITHIN 100 FEET OF DRY CHANNEL. REFUEL STATIONARY EQUIPMENT AS PER THE SPC PLAN.
 - INSTALLATION OF TEMPORARY EQUIPMENT CROSSING IS REQUIRED AT ALL STREAM CROSSINGS. EQUIPMENT CROSSING MUST BE BUILT IN ACCORDANCE WITH THE TYPICAL PORTABLE WATERBODY BRIDGE DETAIL.
 - IN AGRICULTURAL LAND, STRIP TOPSOIL FROM SPOIL STORAGE AREA. STOCKPILE TOPSOIL AND SPOIL SEPARATELY. TOPSOIL AND SPOIL WILL NOT BE STOCKPILED IN THE CROSSING CHANNEL AND WILL BE PLACED A MINIMUM OF 10 FEET FROM CROSSING BANKS WITHIN THE CONSTRUCTION R.O.W.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. FOLLOWING CLEARING AND GRADING AND MAINTAIN UNTIL CONSTRUCTION OF THE CROSSING. EROSION CONTROL MEASURES SHALL BE REINSTALLED IMMEDIATELY FOLLOWING BACKFILLING OF TRENCH AND STABILIZATION OF BANKS. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
 - IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL A MINIMUM OF 10 FEET FROM HIGH BANK AND WITHIN THE CONSTRUCTION R.O.W. UNLESS DEPICTED OTHERWISE IN SITE SPECIFIC CROSSING PLANS.
 - BACKFILL WITH NATIVE MATERIAL.
 - RESTORE CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
 - RESTORE CROSSING BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
 - ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.

TYPICAL NON-FLOWING WATERBODY CROSSING OPEN CUT TRENCHING
SCALE: N.T.S.



- NOTES:**
- THIS TYPE OF BRIDGE IS GENERALLY USED ON NARROW, DEEP CROSSINGS.
 - BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
 - UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL USED DOES NOT SPILL INTO WATERCOURSE.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 - REMOVE PORTABLE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
 - DISPOSE OF ANY ROCK AS DIRECTED BY THE COMPANY REPRESENTATIVE.
 - RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL PORTABLE WATERBODY BRIDGE
SCALE: N.T.S.



- NOTES:**
- THIS TYPE OF BRIDGE IS GENERALLY USED FOR CROSSINGS THAT ARE TOO WIDE FOR A SINGLE BRIDGE SECTION AND RELATIVELY SHALLOW.
 - BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
 - UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL, IF USED, DOES NOT SPILL INTO WATERCOURSE.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 - REMOVE PORTABLE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
 - DISPOSE OF ANY ROCK AS DIRECTED BY THE COMPANY REPRESENTATIVE.
 - RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL PORTABLE WATERBODY BRIDGE WITH CULVERT SUPPORT
SCALE: N.T.S.

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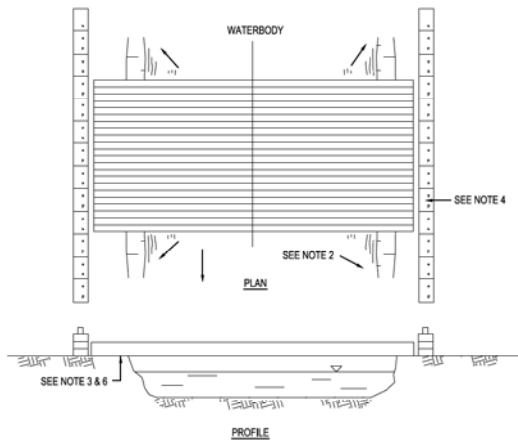
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REGIONAL ENGINEER: MGR TECH REC & STD

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CLERMONT COUNTY, OHIO
KELLOGG, OH

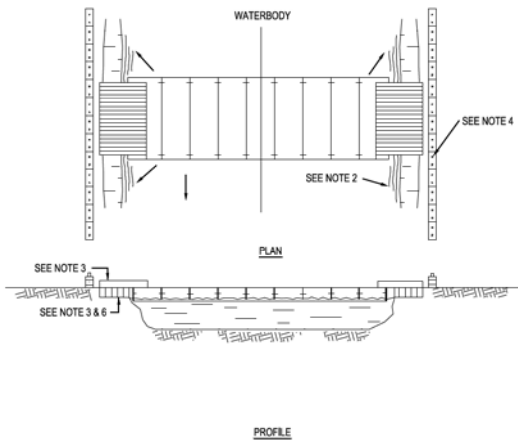
SHEET(S) 3 of 5 DWG SCALE AS NOTED
DWG DATE 10/12/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001505 B
REVISION CANCELLOGG/MT



1. THIS TYPE OF BRIDGE IS GENERALLY USED ON NARROW CROSSINGS, LESS THAN 20 FEET WIDE WITH APPROPRIATE BANK CONFIGURATION. MULTIPLE MATS MAY BE LAYERED FOR HEAVIER EQUIPMENT CROSSINGS.
2. BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY. BRIDGE SHOULD BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE TO USE.
3. IF REQUIRED, UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL IF USED DOES NOT SPILL INTO WATERCOURSE INCLUDING REMOVAL OF DIRT FROM DECK DURING OPERATION.
4. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE, HAY BALES OR SANDBAGS MAY BE USED INTERCHANGEABLY.
5. REMOVE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
6. DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
7. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL TIMBER MAT WATERBODY BRIDGE

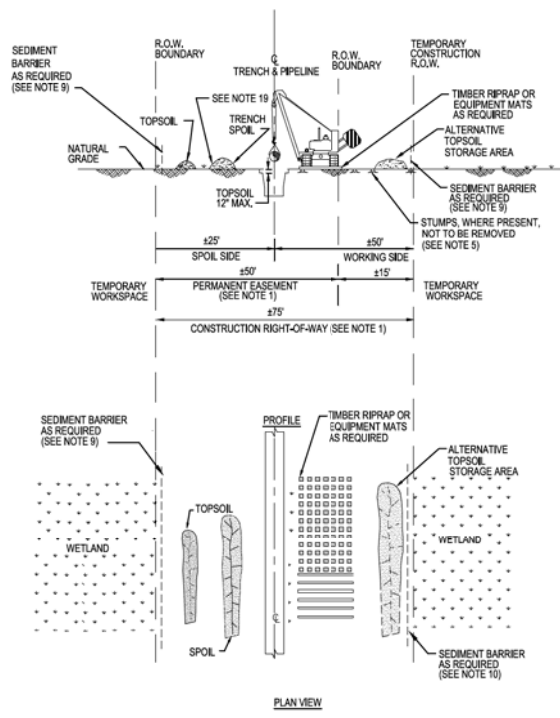
SCALE: N.T.S.



1. THIS TYPE OF BRIDGE IS GENERALLY USED ON WIDE, DEEP CROSSINGS.
2. BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
3. UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL, IF USED, DOES NOT SPILL INTO WATERCOURSE.
4. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE, HAY BALES OR SANDBAGS MAY BE USED INTERCHANGEABLY.
5. REMOVE FLOATING BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
6. DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
7. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL FLEXI-FLOAT WATERBODY BRIDGE

SCALE: N.T.S.



1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 75 FEET WIDE CONSISTING OF 50 FEET OF PERMANENT EASEMENT AND UP TO 25 FEET OF TEMPORARY WORKSPACE.
2. THE SAME LAYOUT APPLIES WHETHER CONSTRUCTION R.O.W. DOES OR DOES NOT ABUT A FOREIGN R.O.W.
3. LOCATE ANY EXTRA TEMPORARY WORK SPACE AREAS AT LEAST 25 FEET FROM EDGE OF WETLAND AND WITHIN THE APPLICABLE FULL WIDTH CONSTRUCTION R.O.W.
4. CLEARING OF VEGETATION AND TREES IS PROHIBITED BETWEEN TEMPORARY EXTRA WORK SPACE AND THE EDGE OF THE WETLAND
5. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE WHEREVER PRACTICABLE, AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
6. LIMIT CONSTRUCTION EQUIPMENT TO ONE PASS THROUGH WETLANDS TO THE EXTENT PRACTICABLE.
7. NO REFUELING OF EQUIPMENT WITHIN 100 FEET OF WETLAND EXCEPT IN ACCORDANCE WITH THE SPOC PLAN.
8. IF SATURATED AT TIME OF CONSTRUCTION, REDUCE SOIL COMPACTION BY UTILIZING WIDE-TRACK OR BALLOON TIRE CONSTRUCTION EQUIPMENT OR NORMAL EQUIPMENT OPERATED ON TIMBER RIPRAP OR EQUIPMENT MATS.
9. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS IMMEDIATELY AFTER INITIAL GROUND DISTURBANCE AND AT THE EDGE OF THE CONSTRUCTION R.O.W. ALONG THE WETLAND AS DIRECTED BY THE COMPANY'S INSPECTOR.
10. THIS DRAWING REFLECTS "TRENCH ONLY" TOPSOIL STRIPPING PROCEDURE FOR AREAS WHERE STANDING WATER OR SATURATED SOIL ARE NOT PRESENT.
11. SALVAGE UP TO 12" OF TOPSOIL OVER TRENCH AT LOCATIONS IDENTIFIED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE COMPANY'S INSPECTOR. MAINTAIN SEPARATION BETWEEN TOPSOIL AND TRENCH SPOIL.
12. LEAVE GAPS IN TOPSOIL AND SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT USE TOPSOIL FOR PADDING. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL PILE.
13. IN UNSATURATED CONDITIONS, SPOIL MAY BE USED TO STABILIZE THE WORKING SIDE.
14. IF SATURATED AT TIME OF CONSTRUCTION, LEAVE HARD PLUGS AT THE EDGE OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
15. TRENCH THROUGH WETLANDS.
16. LOWER PIPE, INSTALL TRENCH BREAKERS AT WETLAND EDGES AS DIRECTED BY THE COMPANY'S INSPECTOR TO PREVENT DRAINAGE. BACKFILL UPON COMPLETION OF CONSTRUCTION.
17. REMOVE ALL TIMBER, RIPRAP OR EQUIPMENT MATS FROM WETLANDS UPON COMPLETION OF CONSTRUCTION.
18. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY AND REPLACE TOPSOIL, WHERE SALVAGED, WITHOUT A CROWN OVER THE TRENCH.
19. IF STANDING WATER IS NOT PRESENT, SEED AS SPECIFIED.
20. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANY'S INSPECTOR, BE REVERSED.

TYPICAL WETLAND CROSSING

SCALE: N.T.S.

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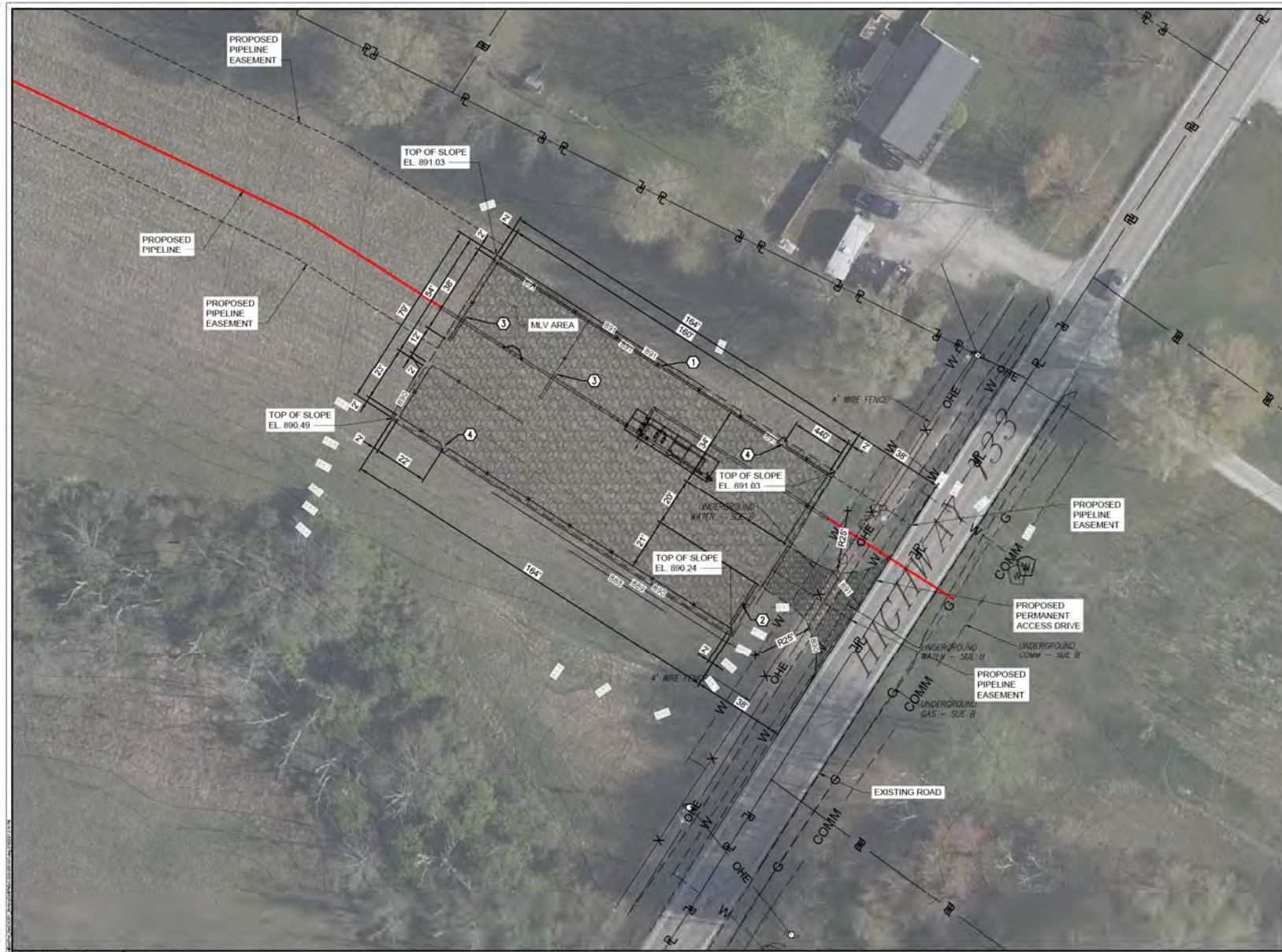
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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	12-18-2020	REVISED 30% DESIGN	AKT	AMP	CNS	AREA CODE			REGIONAL MANAGER
B	12-19-2021	60% DESIGN FOR OFPSE	AKT	AMP	CNS	ACCOUNT NUMBER	AW1982		
						PROJECT NUMBER	AW1982		MGR TECH REC & STD
						DRAWING BY	AKT		
						STATION ID			PRINCIPAL ENGINEER
						CHECKER INITIALS	AMP		

C367 PIPELINE
EROSION SEDIMENT CONTROL DETAILS 7
CLERMONT COUNTY, OHIO
KELLOGG, OH

DUKE ENERGY, Piedmont Natural Gas
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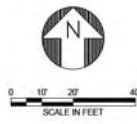
SHEET(S) 3 OF 5 DWG SCALE AS NOTED
DWG DATE 10/12/2020 SUPERSEDED
DRAWING NUMBER PNG -C-XXX-0001506 REVISION B
CNS/KELLOGG/CMF



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 - SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 20' SLIDE GATE
 - ③ 12' SLIDE GATE
 - ④ 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



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REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
E	02-10-2021	90% DESIGN FOR OP&SE

BY	CHK	APPR	DESCRIPTION	DATE	INITIALS
PJK	CDW	JRC	AREA CODE		
PJK	CDW	JRC	ACCOUNT NUMBER	AW1982	
			PROJECT NUMBER	AW1982	
			DRAWING BY	PJK	
			STATION ID		
			CHECKER INITIALS	CDW	

REGIONAL	MANAGER	DATE	INITIALS

**BETHEL LAUNCHER STATION
SITE PLAN
CLERMONT COUNTY, OHIO**
KELLOGG, OH

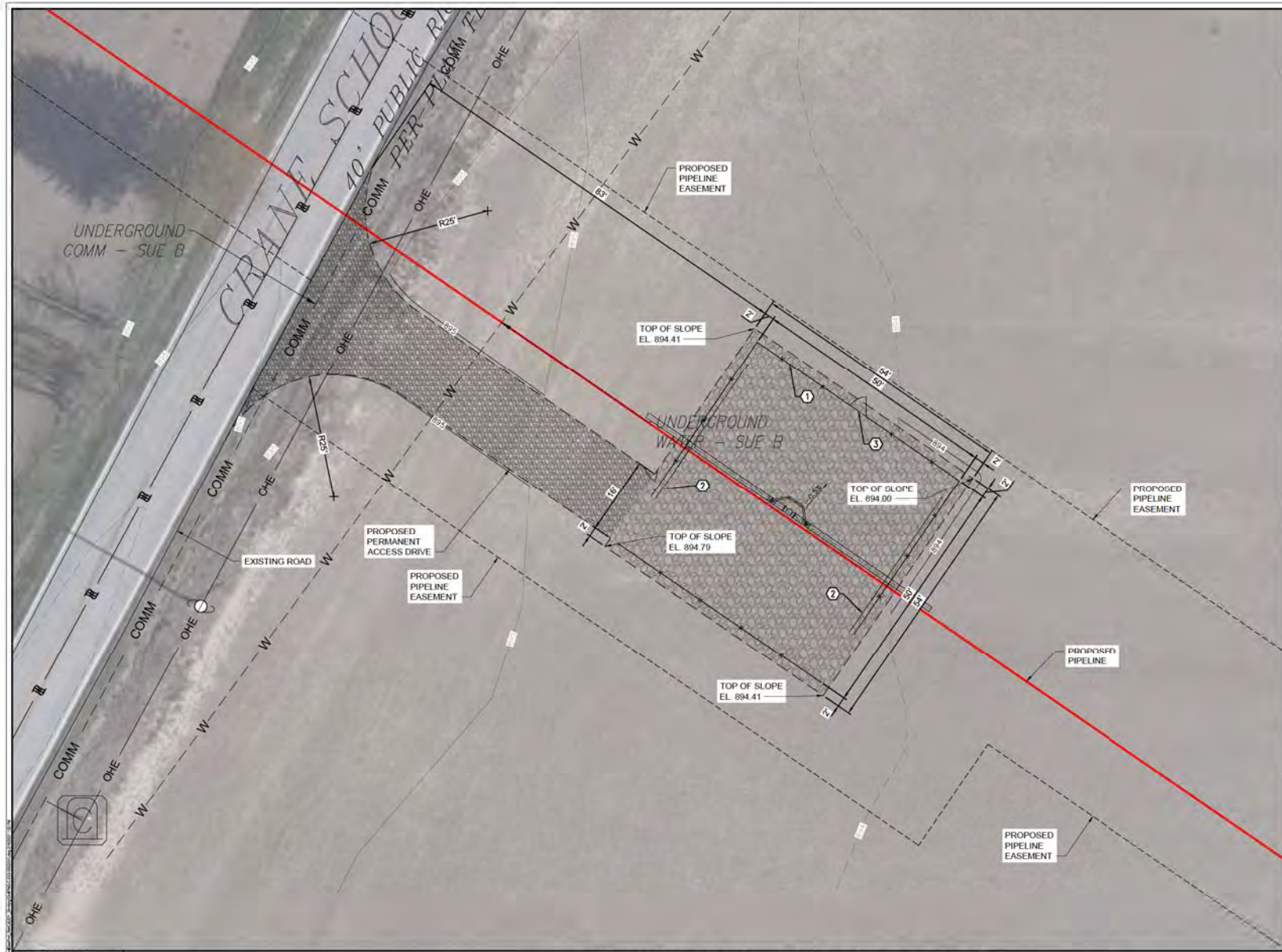
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DWG DATE 11/06/2020		SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG-C-XXX-001XX1		B	

PROFESSIONAL ENGINEER STAMP



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 - SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 12' SLIDE GATE
 - ③ 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



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REV.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPR
A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC
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DESCRIPTION	DATE	INITIALS
APPROVALS		
REGIONAL MANAGER		
SENIOR TECH REC & STD		
PRINCIPAL ENGINEER		

MLV-201 STATION
SITE PLAN - PREF ROUTE
CLERMONT COUNTY, OHIO

KELLOGG, OH

PROJECT NUMBER	AW1982
ACCOUNT NUMBER	
DRAWING BY	PJK
STATION ID	
CHECKER INITIALS	CDW

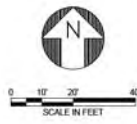
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DWG DATE	11/06/2020	SUPERSEDED	
DRAWING NUMBER	PNG-C-XXX-0002XX1		
REVISION	B		



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- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 16' SLIDE GATE
 - ③ 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



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A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC	AREA CODE		
E	02-10-2021	90% DESIGN FOR OPSE	PJK	CDW	JRC	PROJECT NUMBER	AW1982	
						ACCOUNT NUMBER	AW1982	
						DRAWING BY	PJK	
						STATION ID		
						CHECKER INITIALS	CDW	

SHEET(S)	X OF X	DWG SCALE	AS NOTED
DWG DATE 11/06/2020		SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG-C-XXX-0003XX1		B	
CNSKELLOGG007			

MLV-301 STATION
SITE PLAN - PREF ROUTE
CLERMONT COUNTY, OHIO
KELLOGG, OH



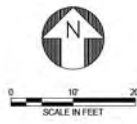
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- KEY NOTES:**
- CHAIN-LINK FENCE
 - 16' SLIDE GATE
 - 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



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A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC	AREA CODE	
E	02-10-2021	90% DESIGN FOR OPSE	PJK	CDW	JRC	ACCOUNT NUMBER	AW1982
						PROJECT NUMBER	AW1982
						DRAWING BY	PJK
						STATION ID	
						CHECKER INITIALS	CDW

REGIONAL MANAGER
MGR TECH REC & STD
PRINCIPAL ENGINEER

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MLV-401 STATION
SITE PLAN - PREF ROUTE
CLERMONT COUNTY, OHIO
KELLOGG, OH

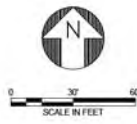
REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	X OF X
DWG SCALE	AS NOTED
DWG DATE	11/06/2020
SUPERSEDED	
DRAWING NUMBER	PNG-C-XXX-0004XX1
REVISION	B
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- KEY NOTES:**
- CHAIN-LINK FENCE
 - 20' SLIDE GATE
 - 12' SLIDE GATE
 - 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE
 - FLARE STUDY AREA



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NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APP'D
A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC
E	02-10-2021	90% DESIGN FOR OPSE	PJK	CDW	JRC

DESCRIPTION	DATE	INITIALS	APPROVALS
PROJECT NUMBER	AW1982		
DRAWING BY	PJK		
STATION ID			
CHECKER INITIALS	CDW		

REGIONAL MANAGER	DATE	INITIALS	APPROVALS
MGR TECH REC & STD			
PRINCIPAL ENGINEER			

**BATAVIA DELIVERY STATION
SITE PLAN - PREF ROUTE
CLERMONT COUNTY, OHIO**

DUKE ENERGY | Piedmont Natural Gas

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DWG DATE 11/06/2020	SUPERSEDED	
DRAWING NUMBER	REVISION	
PNG-C-XXX-0005XX1	B	
CNKL0000007		

Appendix 6 – Engineering Drawings

Alternate Route



C367 12" PIPELINE
SCALE: NTS

DRAWING INDEX			
PAGE #	DRAWING NUMBER	SHEET DESCRIPTION	REV.
1	PNG-G-367-000200	COVER SHEET	C
2	PNG-G-367-000201	SIGN-OFF SHEET	C
3	PNG-G-367-000202	GENERAL NOTES SHEET 1	C
4	PNG-G-367-000203	LEGEND, SYMBOLS, & ABBREVIATIONS	C
5	PNG-G-367-000204	PIPELINE BILL OF MATERIAL	C
6	PNG-G-367-000210	ACCESS ROUTE OVERVIEW MAP	C
7	PNG-G-367-000211	ACCESS ROUTE 1	C
8	PNG-G-367-000212	ACCESS ROUTE 2	C
9	PNG-G-367-000220	ALIGNMENT SHEET	C
10	PNG-G-367-0002031	ALIGNMENT SHEET	C
11	PNG-G-367-0002032	ALIGNMENT SHEET	C
12	PNG-G-367-0002033	ALIGNMENT SHEET	C
13	PNG-G-367-0002034	ALIGNMENT SHEET	C
14	PNG-G-367-0002035	ALIGNMENT SHEET	C
15	PNG-G-367-0002036	ALIGNMENT SHEET	C
16	PNG-G-367-0002037	ALIGNMENT SHEET	C
17	PNG-G-367-0002038	ALIGNMENT SHEET	C
18	PNG-G-367-0002039	ALIGNMENT SHEET	C
19	PNG-G-367-0002040	ALIGNMENT SHEET	C
20	PNG-G-367-0002041	ALIGNMENT SHEET	C
21	PNG-G-367-0002042	ALIGNMENT SHEET	C
22	PNG-G-367-0002043	ALIGNMENT SHEET	C
23	PNG-G-367-0002044	ALIGNMENT SHEET	C
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27	PNG-G-367-0002048	ALIGNMENT SHEET	C
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64	PNG-G-367-0002085	ALIGNMENT SHEET	C
65	PNG-G-367-0002086	ALIGNMENT SHEET	C
66	PNG-G-367-0002101	CROSSING DETAIL 01	A
67	PNG-G-367-0002102	CROSSING DETAIL 02	A
68	PNG-G-367-0002103	CROSSING DETAIL 03	A
69	PNG-G-367-0002104	CROSSING DETAIL 04	A
70	PNG-G-367-0002105	CROSSING DETAIL 05	A
71	PNG-G-367-0002106	CROSSING DETAIL 06	A
72	PNG-G-367-0002107	CROSSING DETAIL 07	A
73	PNG-G-367-0002108	CROSSING DETAIL 08	A
74	PNG-G-367-0002109	CROSSING DETAIL 09	A
75	PNG-G-367-0002110	CROSSING DETAIL 10	A
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77	PNG-G-367-0002112	CROSSING DETAIL 12	A
78	PNG-G-367-0002113	CROSSING DETAIL 13	A
79	PNG-G-367-0002114	CROSSING DETAIL 14	A
80	PNG-G-367-0002115	CROSSING DETAIL 15	A
81	PNG-G-367-0002200	APPLE ROAD HDD ALIGNMENT SHEET	A
82	PNG-B-367-0002001	GEOTECH BORE LOG 1	A
83	PNG-B-367-0002002	GEOTECH BORE LOG 2	A
84	PNG-G-367-0002500	EROSION SEDIMENT CONTROL DETAILS 1	B
85	PNG-G-367-0002501	EROSION SEDIMENT CONTROL DETAILS 2	B
86	PNG-G-367-0002502	EROSION SEDIMENT CONTROL DETAILS 3	B
87	PNG-G-367-0002503	EROSION SEDIMENT CONTROL DETAILS 4	B
88	PNG-G-367-0002504	EROSION SEDIMENT CONTROL DETAILS 5	B
89	PNG-G-367-0002505	EROSION SEDIMENT CONTROL DETAILS 6	B
90	PNG-G-367-0002506	EROSION SEDIMENT CONTROL DETAILS 7	B
91	PNG-C-XXXX-0001XX1	BETHEL LAUNCHER STATION SITE PLAN	B
92	PNG-C-XXXX-0002XX2	MLV-201 STATION SITE PLAN - ALT ROUTE	B
93	PNG-C-XXXX-0003XX3	MLV-301 STATION SITE PLAN - ALT ROUTE	B
94	PNG-C-XXXX-0004XX4	BATAVIA DELIVERY STATION SITE PLAN - ALT ROUTE	B
95	PNG-C-XXXX-0005XX5	BATAVIA DELIVERY STATION ACCESS ROAD PLAN - ALT ROUTE	A

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL MGR REC & STD
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	AREA CODE				
B	12-16-2020	REVISED 30% DESIGN	SFS	JMP	CNS	ACCOUNT NUMBER	AW1092			
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982			
						DRAWING BY	SFS			
						STATION ID				
						CHECKER INITIALS	JMP			

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**C367 PIPELINE
COVER SHEET
CLERMONT COUNTY, OH**

KELLOGG, OH

SHEET(S) 1 OF 5 | DWG SCALE N.T.S.

DWG DATE 11/02/2020 | SUPERSEDED

DRAWING NUMBER PNG -G-367-0002000 | REVISION C

GNELLOGG/C367

DESIGN REVIEW OF COMPLETED CONSTRUCTION JOB SPONSOR _____ DATE _____ FIELD CHANGE REQUEST DOCUMENT REQUIRED: YES <input type="checkbox"/> NO <input type="checkbox"/> TRANSMISSION DESIGN DOCUMENT REQUIRED: YES <input type="checkbox"/> NO <input type="checkbox"/> SYSTEMS OPERATION SUPERVISOR VALVES AND NUMBERS REVIEWED REVIEWED BY _____ DATE _____ VALVES THAT HAVE BEEN ABANDONED AND REMOVED # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____ # _____	CORROSION ENGINEERING CONDITION OF COATING WHEN DELIVERED TO JOB: NO. PROPOSED _____ NO. INSTALLED _____ APPR. BY _____ COATING TYPE _____ GOOE <input type="checkbox"/> FAIR <input type="checkbox"/> POOR <input type="checkbox"/> INSPECTION _____ NO. TESTED OK (P/S INDICATOR) _____ VISUAL <input type="checkbox"/> JEEP <input type="checkbox"/> INSULATION CHECKED _____ NO. CHECKED _____ TYPE PATCH MATERIAL _____ CONTINUITY OF COUPLINGS CHECKED _____ CASING CHECKED FOR SHORT <input type="checkbox"/>	TEST CONN. PER STD. 7.7.1 NO. INSTALLED _____ PLASTIC SEPARATIONS INSTALLED <input type="checkbox"/> CONTINUITY OF COUPLINGS CHECKED _____ CASING CHECKED FOR SHORT <input type="checkbox"/>	PERMIT(S) REQUIRED _____ _____ _____	HYDROSTATIC PRESSURE TEST ALL LINES OPERATING ABOVE 60 PSIG REQUIRE STRENGTH TESTING BEFORE PLACING INTO SERVICE. PRESSURE CHARTS AND FORMS SHOULD BE FORWARDED TO GAS ENGINEERING, TEST PER PROCEDURE FOC-PR-2040. REQUIRED TEST PRESSURE RANGE MIN. 1500 PSIG TO MAX. 1600 PSIG HOURS: 8 MEDIUM WATER SIGNATURE _____ DATE _____	HYDROSTATIC TEST WATER DISCHARGE REQUIREMENTS PERMIT REQUIRED FOR ALL DISCHARGE. CONTACT GAS OPERATION REGULATORY COMPLIANCE TO ARRANGE FOR DISCHARGE PERMIT. SAMPLING AND TESTING REQUIRED FOR ALL DISCHARGES TO SURFACE WATERS. CONTACT LOCAL POTW FOR OFFSITE DISCHARGE REQUIREMENTS AND LOCAL WATER DISTRICT. HYDROSTATIC TEST WATER DISCHARGE SHALL BE PER GAS STANDARD 10.3.	COUNTY OF _____ ITEM NO. _____ SHEET NO. _____																
PROJECT CONTACTS CONSTRUCTION: MATT WEBER (W) 513-287-2968 (C) 513-310-9881 ENGINEERING SPONSOR: BRAD SEITER (W) 513-287-4415 (C) 859-466-6690; KEVIN KUJISTI (W) 513-287-4407 (C) 614-406-4686			INSTALLED PIPE & FITTING MAOP VERIFICATION TO BE FILLED IN BY MAOP ENGINEER		HYDROSTATIC TEST PROJECT CONTACTS CONSTRUCTION MANAGER: _____ (C) XXX-XXX-XXXX CONTRACTOR CONSTRUCTION MANAGEMENT SUPERVISOR: _____ (C) XXX-XXX-XXXX PROJECT MANAGER: BRAD SEITER (C) 859-466-6690 CORROSION ENGINEER: _____ (C) XXX-XXX-XXXX CONSTRUCTION & MAINTENANCE (C&M) MANAGER: _____ (C) XXX-XXX-XXXX																	
PIPE INSTALLED ON JOB <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>KIND</th> <th>WALL THICKNESS</th> <th>EST. PIPE LENGTH</th> <th>ACTUAL PIPE LENGTH</th> <th>ACTUAL FITTING & VALVE LENGTH</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>ERW</td> <td>0.375"</td> <td>75,151 FT</td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;">TOTAL</td> <td>75,151 FT</td> <td></td> <td></td> </tr> </tbody> </table>			SIZE	KIND	WALL THICKNESS	EST. PIPE LENGTH	ACTUAL PIPE LENGTH	ACTUAL FITTING & VALVE LENGTH	12"	ERW	0.375"	75,151 FT			TOTAL			75,151 FT			DESIGN MAOP PER CLASS 4 1000 PSIG. OPERATING OF LINE 535 PSIG. MIN. PRESSURE RATING OF VALVE, FLANGE OR FITTING _____ PSIG. I HEREBY CERTIFY THAT ALL MATERIAL INSTALLED IS RATED HIGHER THAN THE DESIGN MAOP OF THIS LINE AND THAT THE MATERIAL WAS INSTALLED AS DESIGNED UNLESS NOTED ON MATERIAL LIST. MAOP ENGINEER SIGNATURE _____ DATE _____	
SIZE	KIND	WALL THICKNESS	EST. PIPE LENGTH	ACTUAL PIPE LENGTH	ACTUAL FITTING & VALVE LENGTH																	
12"	ERW	0.375"	75,151 FT																			
TOTAL			75,151 FT																			

CONFORMING TO THE OFFICE OF PIPELINE SAFETY'S REGULATIONS (SECTION 192.243 PARAGRAPH F), WELDING FOR PIPELINE IS REQUIRED TO BE MAINTAINED AS A PART OF THE PIPELINE'S PERMANENT RECORD.

TO MEET THIS REQUIREMENT, THE INSPECTOR SHALL IDENTIFY EACH WELD OF THIS PIPELINE BY NUMBERING AND LOCATING THE WELD ON THE CONSTRUCTION DRAWING AND COMPLETING THE INFORMATION BLOCK BELOW. NUMBERS MUST MATCH THOSE ON X-RAY SHEET. ALL WELDS MUST BE IN ACCORDANCE WITH COMPANY SPECIFICATIONS.

TO BE FILLED OUT BY DESIGN ENGINEER					
PIPE SIZE	12"				
PIPE WALL THK.	0.375"				
PIPE GRADE	X52				
SYMS PER MAOP	17.5%				
WELDING SPEC.					
% XRAY	100%				
TO BE FILLED OUT BY INSPECTOR					
TOTAL NO. OF WELDS MADE					
TOTAL NO. OF WELDS X-RAYED					
TOTAL NO. OF WELDS REJECTED					
TOTAL NO. OF WELDS REPAIRED					
TOTAL NO. OF WELDS REPLACED					

NOTE: TOTAL OF REPAIRED PLUS REPLACED WELDS SHOULD EQUAL AMOUNT OF REJECTED WELDS

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA. 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER	AW1092		
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER	AW1982		
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

**C367 PIPELINE
SIGN OFF SHEET
CLERMONT COUNTY, OHIO**

KELLOGG, OH
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SHEET(S) 2 OF 5 | DWG SCALE N.T.S.
 DWG DATE 11/02/2020 | SUPERSEDED
 DRAWING NUMBER
PNG -G-367-0002001 | REVISION **C**
 GKELLOGG/C367

GENERAL NOTES:

- INSTALLER SHALL FURNISH ALL MATERIALS NOT PROVIDED BY THE COMPANY UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS, INCLUDING EQUIPMENT, TRANSPORTATION, SERVICES, AND PERFORM ALL NECESSARY WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREINAFTER.
- IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO VERIFY ALL DIMENSIONS GIVEN ON THE DRAWINGS. ANY ITEM IN QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER IN WRITING VIA RFI PROCESS PRIOR TO PROCEEDING WITH THE WORK.
- INSTALLER SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURROUNDING AREAS. CONTRACTOR SHALL NOT UNNECESSARILY DISTURB EXISTING CONDITIONS WITHIN CONSTRUCTION LIMITS. DISCRETION SHALL BE PER COMPANY REPRESENTATIVE.
- PROPOSED ELEVATIONS AND DIMENSIONS INDICATE TOP OF PIPE, UNLESS OTHERWISE NOTED. UNLESS SPECIFICALLY NOTED, DEPTHS OF EXISTING FACILITIES ARE ESTIMATED ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DEPTH AND LOCATION OF ALL FACILITIES PRIOR TO COMMENCING WORK.
- ALL BELOW GROUND WELDS SHALL BE COATED PER APPLICABLE COATING SPECIFICATION WITH DENSO 7200 PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS OR AS APPROVED OTHERWISE. SURFACE PREPARATION AND BLASTING SHALL ADHERE TO PERTINENT DESIGN AND CONSTRUCTION STANDARDS AND COATING MATERIAL SPECIFICATIONS.
- PIPE BACKFILL SHALL BE IN ACCORDANCE WITH PERTINENT DUKE BACKFILL SPECIFICATIONS.
- PRESSURE TESTING SHALL MEET THE REQUIREMENTS OF DUKE'S PRESSURE TESTING STANDARD, PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- ALL DISTANCES SHOWN ARE GRID DISTANCES BASED ON OHIO STATE PLANE COORDINATE SOUTH ZONE (3402) NAD 83.
- ANY CHANGES TO THE DESIGN SHOWN ON DRAWINGS SHALL BE APPROVED BY COMPANY REPRESENTATIVE IN WRITING VIA RFI PROCESS.

CONSTRUCTION NOTES:

- EXISTING OVERHEAD AND BELOWGROUND FACILITIES MAY BE IN THE WORK AREA. INSTALLER IS RESPONSIBLE FOR IDENTIFYING FACILITIES LOCATED AND IS RESPONSIBLE FOR MAINTENANCE AND PRESERVATION OF THESE FACILITIES.
- PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS, INSTALLER IS REQUIRED TO CALL 811 FOR UTILITY LOCATES A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF WORK. NO EXTRA COMPENSATION WILL BE ALLOWED FOR DELAYS FROM ANY WORK PROVIDED BY OTHER UTILITIES.
- IF EXISTING UTILITIES OF ANY TYPE ARE ENCOUNTERED IN THE FIELD AND DEEMED TO BE IN CONFLICT WITH INSTALLATION OF FACILITIES, INSTALLER SHALL NOTIFY THE PROJECT MANAGER IN WRITING VIA RFI PROCESS IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, INSTALLER SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS TO PRIVATE DRAINS OR SEWERS. RESTORATION OF THESE FACILITIES IS TO BE PERFORMED ONCE CONSTRUCTION IS COMPLETE AND ARE CONSIDERED INCIDENTAL COSTS OF THE PROJECT.
- ALL DRAWING MEASUREMENTS ARE TO BE TAKEN FROM EXISTING GRADE. FINAL GRADE SHALL BE MATCHED TO SURROUNDING GRADE AS PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- INSTALLER IS TO REMAIN WITHIN CONSTRUCTION WORKING LIMITS. ACCESS TO AREAS OUTSIDE WORKING LIMITS MUST BE COORDINATED WITH THE OWNER OR DUKE ENERGY PROJECT MANAGER.
- ALL EXCESS EXCAVATION, CONSTRUCTION DEMOLITION DEBRIS AND UNSUITABLE MATERIALS THAT DO NOT CONTAIN ASBESTOS OR OTHER POTENTIAL HAZARDOUS MATERIALS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- STANDARD SPECIFICATIONS REFERENCED ON THIS SHEET AND CONSTRUCTION PLANS ARE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED TO BE A PART OF THIS CONTRACT.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY DUKE OR COMPANY REPRESENTATIVE. FINAL PAYMENT SHALL BE MADE AFTER ALL OF THE INSTALLER'S WORK HAS BEEN ACCEPTED AND APPROVED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- DURING CONSTRUCTION, ALL LOOSE MATERIAL THAT ARE DEPOSITED IN THE FLOW LINE OF OUTLETS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, SHALL BE REMOVED AT THE END OF EACH WORK DAY.
- ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE EXTENDED TO OUTLET INTO AN EXISTING DRAINAGE WAY. A RECORD OF ALL FIELD TILE FOR ONSITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE INSTALLER AND TURNED OVER TO THE PROJECT MANAGER UPON COMPLETION OF THE PROJECT.
- INSTALLER IS REQUIRED TO MAINTAIN A SET OF ISSUED FOR CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE JOB SITE. ANY MODIFICATIONS OR ALTERATIONS TO THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT MANAGER.
- INSTALLER IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. INSTALLER IS RESPONSIBLE FOR THE CONSTRUCTION METHODS AND TECHNIQUES, SEQUENCES, TIME OF PERFORMANCE, AND ALL SAFETY PRECAUTIONS.

MINIMUM DEPTH OF BURIAL SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.

- ALL PIPELINES BEING CROSSED ARE TO BE PROTECTED WITH A MINIMUM OF (3) 4 FEET X 18 FEET WOODEN MATS.
- CONTRACTOR TO PROTECT SIDEWALKS AND BIKE PATHS FROM VEHICLE TRAFFIC UTILIZING STEEL PLATING, TIMBER MATTING OR SIMILAR. EXISTING SIDEWALK, BITUMINOUS SHOULDER, CURB/GUTTER AND/OR ROADWAY PAVEMENT DISTURBED OR DAMAGED DUE TO THE PERMITTED WORK SHALL BE REPLACED IN KIND UP TO THE LIMITS AS DETERMINED AND DIRECTED BY THE CITY REPRESENTATIVE IN WHICH DAMAGE WAS DONE.
- PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS, FOR OPEN DITCH EXCAVATION, A MINIMUM OF TWO FEET OF SEPARATION SHALL BE MAINTAINED BETWEEN ALL CROSSING STRUCTURES. SEPARATION BETWEEN CROSSING STRUCTURES AND PIPELINES THAT ARE INSTALLED VIA DIRECTIONAL DRILLING METHODS IS AT THE DISCRETION OF ENGINEERING.
- DURING BACKFILL, A SIX INCH CROWN SHALL BE PLACED ON ALL DISTURBED AREAS. COMPACTION REQUIREMENTS SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- BOLTS FOR FLANGES TO BE TORQUED PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- MAINLINE GIRTH WELDS SHALL BE 100% X-RAYED PER PERTINENT WELDING PROCEDURES. ALL OTHER WELDS SHALL BE NON DESTRUCTIVELY TESTED PER PERTINENT WELDING PROCEDURES.
- CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL) SHALL BE USED UNDER ROADS AND ADJACENT TO ROADS AND SHALL CONFORM TO FCC-3000 BACKFILL AND RESTORATION, OR AS OTHERWISE DIRECTED BY COMPANY.
- CONTRACTOR MAY PROPOSE CONVENIENCE BORES. ANY CHANGES IN INSTALLATION METHOD FROM THAT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN ADVANCE BY DUKE.

SURVEY INVESTIGATION NOTES:

- BEARINGS AND COORDINATES ARE RELATIVE TO NAD83 OHIO STATE PLANE, SOUTH ZONE (3402), US. FOOT. VERTICAL DATUM IS NAVD88.

GEOTECHNICAL DATA

- THE GEOTECHNICAL INFORMATION PROVIDED IN THE DRAWINGS IS A GENERAL SUMMARY. REFER TO THE APPLICABLE GEOTECHNICAL REPORT IN THE CONTRACT DOCUMENTS FOR MORE DETAILED INFORMATION.

CATHODIC PROTECTION & AC MITIGATION NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NON-STOCK CP AC MATERIALS AND ALL MISCELLANEOUS PARTS TO COMPLETE PROJECT PER CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, ELECTRICAL CODES, STATE AND LOCAL CODES AND STANDARDS, AND LOCAL ELECTRICAL DISTRIBUTION COMPANY REQUIREMENTS. CONTRACTOR SHALL ALSO INSTALL ALL OWNER PROVIDED CP AND AC MATERIALS AND EQUIPMENT. PARTS INCLUDE, BUT ARE NOT LIMITED TO, WIRING AND MOUNTING MATERIALS, METER SOCKET, DISCONNECT EQUIPMENT, ENCLOSURES, TRANSIENT VOLTAGE SURGE SUPPRESSORS, AC MAIN BUSS TERMINATION, CIRCUIT BREAKERS, AND OTHER ELECTRICAL EQUIPMENT REQUIRED. ACTUAL LENGTH OF WIRING IS DEPENDENT ON DISTANCE FROM INSTALLATION.

DESIGN NOTES:

- FIELD BENDING (COLD BENDING) SHALL BE PERFORMED IN ACCORDANCE WITH FCC-ST-2050 BENDING STEEL PIPE. FOR 12" PIPE, FIELD BEND SHALL BE LIMITED TO 29 DEGREES OR LESS PER 40' STICK OF PIPE. CUT SEGMENTABLE FITTINGS REQUIRED FOR ALL ANGLES ABOVE 29 DEGREES.
- MINIMUM ROPING RADIUS FOR 12" PIPE: 800' BASED ON 3-JOINT RADIUS.
- UNLESS NOTED OTHERWISE MINIMUM DESIGN CLEARANCE BETWEEN PIPELINE AND FOREIGN STRUCTURES IS 2' (24"). FIELD ADJUSTMENT MAY BE REQUIRED TO LESS THAN DESIGNED CLEARANCE, BUT IN NO CIRCUMSTANCES WILL CLEARANCE BE LESS THAN 1' (12").
- CONTRACTOR SHALL ADHERE TO DUKE OHIO HDD GUIDELINES AS APPLIES TO HDD DRILLING WASTES AND PROTECTION OF WATER RESOURCES, SEE TRENCHLESS GUIDANCE DOCUMENTS, DUKE ENERGY NATURAL GAS BUSINESS UNIT, DATED APRIL 2020.

RESTORATION:

- RESTORATION SHALL BE CONTROLLED BY APPLICABLE PERMITS AND AS DIRECTED BY COMPANY'S INSPECTOR.
- RESTORATION LIMITS AND DETAILS PROVIDED IN THE DRAWINGS SHALL BE SUBJECT TO FIELD MODIFICATIONS TO MEET VARYING CONDITIONS.
- ADDITIONAL RESTORATION REQUIREMENTS AND QUALIFICATIONS SHALL BE AS DESCRIBED IN THE BID DOCUMENTS.
- MATERIAL REQUIREMENTS SHALL MEET ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, WHERE CONFLICT EXISTS BETWEEN THESE DRAWINGS, ODOT SPECIFICATIONS, LOCAL REQUIREMENTS, OR OTHER BID DOCUMENTS REQUIREMENTS, CLARIFICATION SHALL BE SOUGHT IN ADVANCE FROM THE PROJECT MANAGER IN WRITING VIA RFI PROCESS.

ENVIRONMENTAL NOTES:

- INSTALLER IS TO CONSTRUCT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AT THE COMMENCEMENT OF THE PROJECT, PROVIDE MAINTENANCE AND ASSURE EFFECTIVENESS THROUGHOUT THE DURATION OF THE PROJECT.
- CARE SHALL BE TAKEN TO MINIMIZE DOWNSTREAM SILTATION. RAW BANKS MAY BE SEEDED AND MULCHED TO PREVENT EROSION.
- ALL SPILLS INCLUDING ORGANIC SOILS, VEGETATION AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN SUCH A MANNER AS TO NOT ERODE INTO ANY BODY OF WATER OR WETLAND UNLESS APPROVED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR.
- EROSION AND SEDIMENT CONTROLS SHALL BE PLACED WHERE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE WORK AREA.
- INLET FILTERS ARE REQUIRED AT ALL SEWER INLETS, GRATES AND MANHOLES FOR SEDIMENT CONTROL.
- TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF SAID STOCKPILE ONTO OFFSITE AREAS.
- ALL ENVIRONMENTAL MEASURES SHALL BE PER PERTINENT DESIGN AND CONSTRUCTION STANDARDS.
- NO ASPHALT SLURRY OR CUTTING MAY ENTER STORM DRAINS. MATERIALS MUST BE VACUUMED OR OTHERWISE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
- DUKE ENERGY SHALL CONTACT OPSB STAFF, ODNR, AND USFWS WITHIN 24 HOURS IF STATE OR FEDERAL THREATENED OR ENDANGERED SPECIES ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES THAT COULD ADVERSELY IMPACT THE IDENTIFIED PLANTS OR ANIMALS SHALL BE IMMEDIATELY HALTED UNTIL AN APPROPRIATE COURSE OF ACTION HAS BEEN AGREED UPON BY DUKE ENERGY AND THE APPROPRIATE REGULATORY AGENCIES.
- THE CONSTRUCTION CONTRACTOR SHALL COMPLY WITH FUGITIVE DUST RULES BY THE USE OF WATER SPRAY OR OTHER APPROPRIATE DUST SUPPRESSANT MEASURES WHENEVER NECESSARY.
- THE CONSTRUCTION CONTRACTOR SHALL NOT CROSS STREAMS BY FORDING FOR CONSTRUCTION ACCESS AND SHALL INSTEAD EMPLOY TIMBER MATTING OR OTHER METHODS THAT AVOID OR MINIMIZE STREAM BED DISTURBANCES.
- THE CONSTRUCTION CONTRACTOR SHALL REMOVE ALL TEMPORARY GRAVEL AND OTHER CONSTRUCTION STAGING AREA AND ACCESS ROAD MATERIALS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES, AS WEATHER PERMITS, UNLESS OTHERWISE DIRECTED BY THE LANDOWNER OR DUKE ENERGY. IMPACTED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS IN COMPLIANCE WITH THE OHIO EPA GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS OBTAINED FOR THE PROJECT AND THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CREATED FOR THE PROJECT.
- CONTRACTOR SHALL TEMPORARILY STABILIZE ANY DISTURBED AREAS LEFT UNATTENDED FOR 14 DAYS OR MORE, OR AS OTHERWISE DIRECTED IN THE PROJECT SWPPP.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES UNTIL UPSLOPE STABILIZATION HAS DEVELOPED AS DIRECTED IN THE PROJECT SWPPP.
- ALL SEDIMENT RELEASES BEYOND THE SITE PERIMETER CONTROLS AND SPILLS REGARDLESS OF AMOUNT OR LOCATION ARE TO BE IMMEDIATELY REPORTED TO DUKE ENERGY ENVIRONMENTAL FIELD PROFESSIONAL. IF THE DUKE ENERGY ENVIRONMENTAL FIELD PROFESSIONAL CANNOT BE REACHED, THE DUKE ENERGY SPILL HOTLINE IS TO BE CALLED AT 1-800-527-3853.

DEWATERING:

- ALL DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE SWPPP.
- CONTROL GRADING AROUND EXCAVATIONS TO PREVENT SURFACE WATER FROM FLOWING INTO EXCAVATION AREAS.
- DRAIN OR PUMP AS REQUIRED TO MAINTAIN, INCLUDING DAYS NOT NORMALLY WORKED. ALL EXCAVATIONS FREE OF WATER OR MUD FROM ANY SOURCE, AND DISCHARGE TO APPROVED DRAINS OR CHANNELS. COMMENCE WHEN WATER FIRST APPEARS AND CONTINUE AS REQUIRED TO KEEP EXCAVATION FREE OF STANDING WATER DURING ENTIRE TIME EXCAVATION IS OPEN.
- USE PUMPS OF ADEQUATE CAPACITY TO ENSURE RAPID DRAINAGE OF AREA, AND CONSTRUCTION AND USE DRAINAGE CHANNELS TO SUBDRAINS WITH SUMPS AS REQUIRED BY QUANTITY OF INFLOW.
- WHEN WATER IS FOUND IN THE EXCAVATION DUE TO CONTRACTOR NEGLIGENCE, REMOVE UNSUITABLE EXCESSIVELY WET SUBGRADE MATERIALS AND REPLACE WITH APPROVED COMPACTED EMBANKMENT MATERIAL AS DIRECTED BY OWNER AND AT NO ADDITIONAL COST TO OWNER.
- RIVER/STREAM CROSSINGS EXIST AS INDICATED ALONG THIS PROJECT, REQUIRING EXCAVATION BELOW POTENTIAL STREAM OR RIVER PHREATIC LEVELS. DEWATERING METHODS SHALL INCORPORATE MEANS TO ACCOUNT FOR RISING OR VARYING WATER LEVELS ASSOCIATED WITH THESE BODIES OF WATER AND THEIR INTERCONNECTED WATERWAYS, WHETHER SURFACE OR SUBSURFACE, TO PREVENT THREATENING THE INTEGRITY OF THE EXCAVATION, EXISTING FACILITIES, AND WORK UNDER CONSTRUCTION.
- MAINTAIN AREA DRAINAGE DURING CONSTRUCTION.
- COMPLETE CHANNEL PROTECTION EXPEDITIOUSLY FOLLOWING EXCAVATION.

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		DRAWING BY	SFS				
		STATION ID					
		CHECKER INITIALS	JMP				

**C367 PIPELINE
 GENERAL NOTES SHEET 1
 CLERMONT COUNTY, OHIO**

SHEET(S) 3 OF 5 | DWG SCALE N.T.S.
 DWG DATE 11/02/2020 | SUPERSEDED
 DRAWING NUMBER PNG -G-367-000202 | REVISION C
 GNEEL000307



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GENERAL RESTRICTIONS

1. STAY IN ROW/EASEMENTS OR WITHIN PREDETERMINED WORKSPACE AREAS.
2. ONLY USE DESIGNATED POINTS OF ACCESS AS APPROVED BY DUKE.
3. NO DIGGING, WORK, OR STORAGE WITHIN 25' OF POWER LINE OR EQUIPMENT INCLUDING GUY WIRES, EXCEPT AT CROSSINGS OF POWER RIGHT OF WAY DESIGNATED ON PLANS.
4. ANY DOT CROSSING NOTIFICATIONS TO BE MADE AS DICTATED BY THE PERMIT OR STATE DOT PERMIT.
5. INSTALLER IS RESPONSIBLE FOR KNOWING LOCATION OF ALL ENVIRONMENTALLY SENSITIVE AREA RESTRICTIONS PERTAINING TO THIS PROJECT.

ABBREVIATIONS

APPROX.	APPROXIMATE
B.C.	BUOYANCY CONTROL
CL	CENTERLINE
CD	CONTROLLED DENSITY FILL
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATIONS
CP	CATHODIC PROTECTION
DI	DROP INLET
DA	DIAMETER
DIP	DUCTILE IRON PIPE
E	EASTING
EA	EACH
EL / ELEV	ELEVATION
EX	EXISTING
FLC	FOREIGN LINE CROSSING
FM	FORCE MAIN
FT	FEET
FTG	FITTING
H / HORIZ	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILL
H.LT	HORIZONTAL LEFT TURN
H.RT	HORIZONTAL RIGHT TURN
IN / INV	INVERT
JAB	JACK AND AUGER BORE
L	LENGTH
LAT	LATITUDE
LF	LINEAR FEET
LONG	LONGITUDE
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
N	NORTHING
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OC	OPEN CUT
O.D.	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PV	POST INDICATOR VALVE
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
R	RADIUS
RD	ROAD
R/W / ROW	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SS	SANITARY SEWER
SSD	SOLID STATE DECOUPLER
STA	STATION
TOP	TOP OF PIPE
TWS	TEMPORARY WORKSPACE
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE/COMMUNICATIONS
V / VERT	VERTICAL
W	WIDTH
W.T.	WALL THICKNESS
X-ING	CROSSING

LEGEND

	PROPOSED TEMPORARY WORKSPACE
	PROPOSED PERMANENT EASEMENT
	ADDITIONAL TEMPORARY WORKSPACE
	STABILIZED CONSTRUCTION ENTRANCE
	STREAM & WETLAND CROSSING
	PERIMETER SEDIMENT CONTROL
	J-HOOK SILT FENCE
	DELINEATED WETLAND
	FEMA 100 YEAR FLOOD AREA
	ACCESS PATH
	STREAM
	DITCH
	TREE LINE
	EX. COMMUNICATION LINE
	EX. OVERHEAD LINE
	EX. ELECTRIC LINE
	FENCE
	EX. GAS LINE
	RIGHT-OF-WAY
	RAILROAD
	EX. SANITARY SEWER
	EX. STORM WATER LINE
	EX. WATER LINE
	PROPERTY LINE
	CONSTRUCTION BOUNDARY
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	JURISDICTIONAL LINE
	BUOYANCY CONTROL
	PROPOSED GAS LINE
	HORIZONTAL DIRECTIONAL DRILL
	AUGER BORE
	EXCAVATION PIT

	POTHOLE LOCATION
	BORING LOCATION
	FLUSH PIPELINE MARKER
	ABOVE GRADE PIPELINE MARKER
	MILE MARKER
	CONSTRUCTION ENTRANCE
	TEST STATION (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	SOLID STATE DECOUPLER (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	COUPON TEST STATION (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)
	MONOLITHIC INSULATOR JUNCTION BOX (SEE EQUIPMENT SCHEDULES ON PNG-E-XXX-000XXXX)

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STATE LICENSE # 00A, 01597

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE			
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER	AW1982		
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER	AW1982		
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

REGIONAL ENGINEER

MGR. TECH REC & STD

DUKE ENERGY

Piedmont Natural Gas

PRINCIPAL ENGINEER

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C367 PIPELINE
LEGEND, SYMBOLS, & ABBREVIATIONS
CLERMONT COUNTY, OHIO

KELLOGG, OH

SHEET(S)	4 OF 5	DWG SCALE	N.T.S.
DWG DATE	11/02/2020	SUPERSEDED	
DRAWING NUMBER	PNG -G-367-0002003		REVISION
			C

BILL OF MATERIAL							
GROUP	MARK	QTY (FT OR EA)	SIZE	LINE	ITEM NUMBER	DESCRIPTION	AS BUILT QTY
PIPE	1	70,520	12"	C367 ALTERNATE ROUTE	1551302	PIPE, 12" NPS X 0.375 W.T., DBL RANDOM LG, BEVELED ENDS, ELECTRIC RESISTANCE WELD, FBE, STL, API 5L PSL-2, GR X52, NO JOINTERS	
	2	3,020	12"	C367 ALTERNATE ROUTE	1551284	PIPE, 12" NPS X 0.375 W.T., DBL RANDOM LG, BEVELED ENDS, ELECTRIC RESISTANCE WELD, FBE/PC, STL, API 5L PSL-2, GR X52, NO JOINTERS	
SEGMENTABLE ELBOWS	10	25	12"	C307 ALTERNATE ROUTE	1551324	ELBOW, PIPE, 12" NPS X 0.375 W.T., BW, 90 DEG, 3D RADIUS, STL, MSS SP-75, GR Y52, FULLY SEGMENTABLE, PAINTED PREFERRED, BARE ACCEPTABLE, MACHINE BEVEL ENDS PER ASME B31.8 APPENDIX I, FIG I-4	
	11	17	12"	C367 ALTERNATE ROUTE	1551320	ELBOW, PIPE, 12" NPS X 0.375 W.T., BW, 45 DEG, 3D RADIUS, STL, MSS SP-75, GR Y52, FULLY SEGMENTABLE, PAINTED PREFERRED, BARE ACCEPTABLE, MACHINE BEVEL ENDS PER ASME B31.8 APPENDIX I, FIG I-4	
SCARGUARD	20	70	12"	C367 ALTERNATE ROUTE	1593272	COATING, ABRASION RESISTANT OVERCOAT, 10" X 30', CANUSA SCAR-GUARD, JOINT COATING	
	21	42	12"	C367 ALTERNATE ROUTE	1598071	COATING, ABRASION RESISTANT OVERCOAT, 10" X 50' ROLL, CANUSA SCAR-GUARD	
	21	5	12"	C367 ALTERNATE ROUTE	1575278	TOOL, ARO, CANUSA SCAR-GUARD, PERFORATION TOOL	

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C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER AW1982
						DRAWING BY SFS
						STATION ID
						CHECKER INITIALS JMP

APPROVALS		REGIONAL MANAGER
DATE	INITIALS	
DATE	INITIALS	MGR TECH REC & STD
DATE	INITIALS	PRINCIPAL ENGINEER



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**C367 PIPELINE
PIPELINE BILL OF MATERIAL
CLERMONT COUNTY, OHIO**

KELLOGG, OH

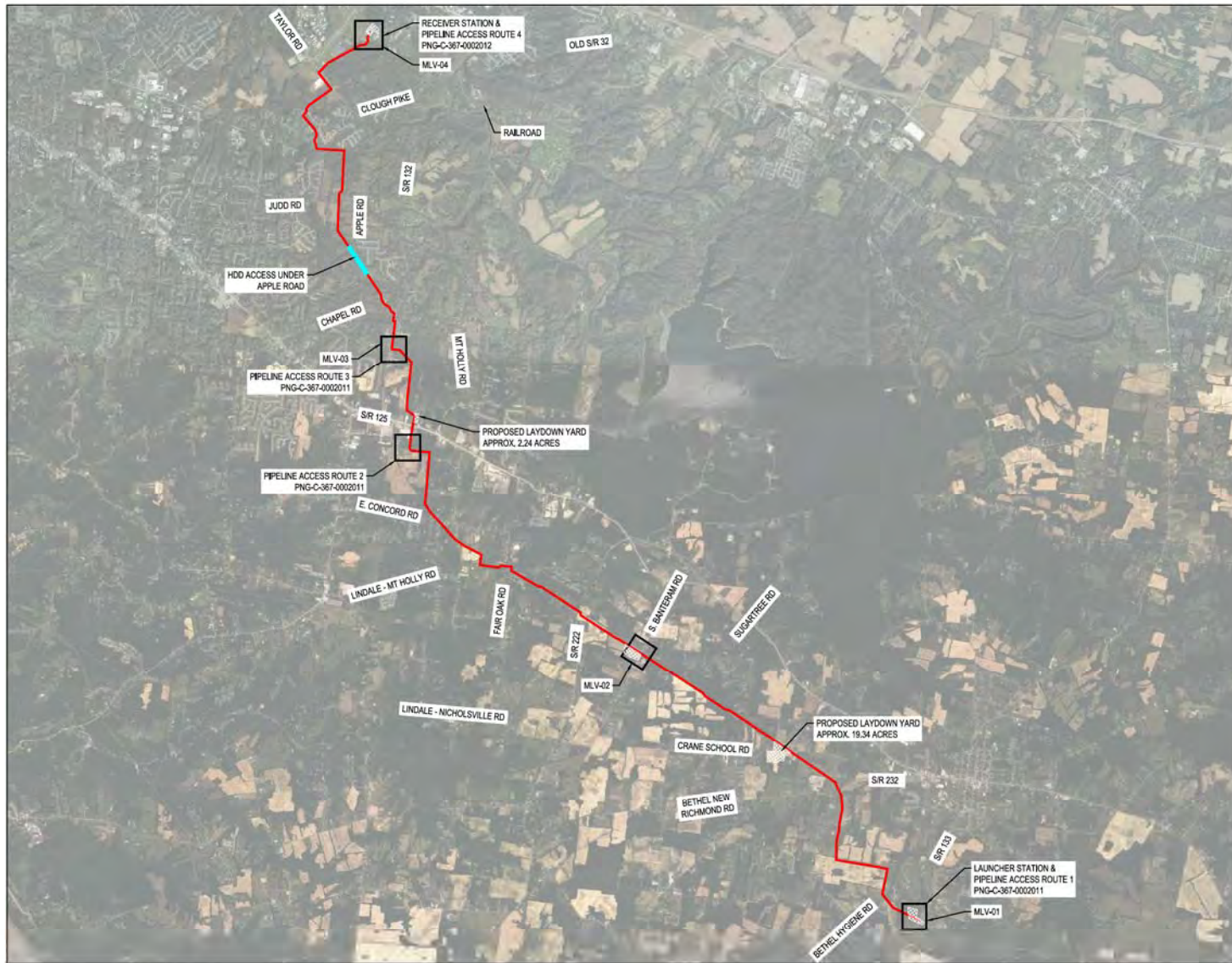
SHEET(S) 5 OF 5 DWG SCALE N.T.S.

DWG DATE 11/02/2020 SUPERSEDED

DRAWING NUMBER REVISION

PNG -G-367-0002004 C

CNS11LOGGCM7



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STATE LICENSE # 00A, 01567

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REF. DWG(S) PNG-G-367-002000

NO.	DATE	REVISIONS/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-16-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPV	DESCRIPTION
SFS	JMP	CNS	AREA CODE
SFS	JMP	CNS	ACCOUNT NUMBER
SFS	JMP	CNS	PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	



**C367 PIPELINE
ACCESS ROUTE OVERVIEW MAP
CLERMONT COUNTY, OHIO**
KELLOGG, OH

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SHEET(S)	1 OF X	DWG SCALE	NONE
DWG DATE	10/21/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002010		REVISION
			C

PROFESSIONAL ENGINEER STAMP



LAUNCHER STATION & PIPELINE ACCESS PLAN 1

SCALE: 1:150



PIPELINE ACCESS PLAN 2

SCALE: 1:150



PIPELINE ACCESS PLAN 3

SCALE: 1:150

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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REF. DWG(S) PNG-G-367-000200

NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS: AREA CODE
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS: ACCOUNT NUMBER
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS: PROJECT NUMBER
					DRAWING BY: SFS
					STATION ID
					CHECKER INITIALS: JMP

APPROVALS	
REGIONAL ENGINEER	DATE
MGR TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE

REGIONAL ENGINEER
 MGR TECH REC & STD
 PRINCIPAL ENGINEER

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**C367 PIPELINE
ACCESS ROUTE 1
CLERMONT COUNTY, OHIO**
 KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS-NOTED
DWG DATE 10/23/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002011	C
CNSLLOGG/CMP	

PROFESSIONAL ENGINEER STAMP



BATAVIA DELIVERY STATION & PIPELINE ACCESS PLAN 4

SCALE: 1"=50'

BURNS & MCDONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # 00A, 01557

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REF. DWG(S) PNG-G-367-000200

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					DRAWING BY SFS
					STATION ID
					CHECKER INITIALS JMP

APPROVALS		REGIONAL ENGINEER
DATE	SIGNATURE	
DATE	SIGNATURE	
DATE	SIGNATURE	
DATE	SIGNATURE	

REGIONAL ENGINEER
MGR TECH REC & STD
PRINCIPAL ENGINEER



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**C367 PIPELINE
ACCESS ROUTE 2
CLERMONT COUNTY, OHIO**

KELLOGG, OH

SHEET(S)	1 OF X	DWG SCALE	AS-NOTED
DWG DATE	10/23/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002012		REVISION C
CNKL00000007			

PROFESSIONAL ENGINEER STAMP

BB 1003.00
FRANKLINE & PATSY WILSON
TATE TOWNSHIP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

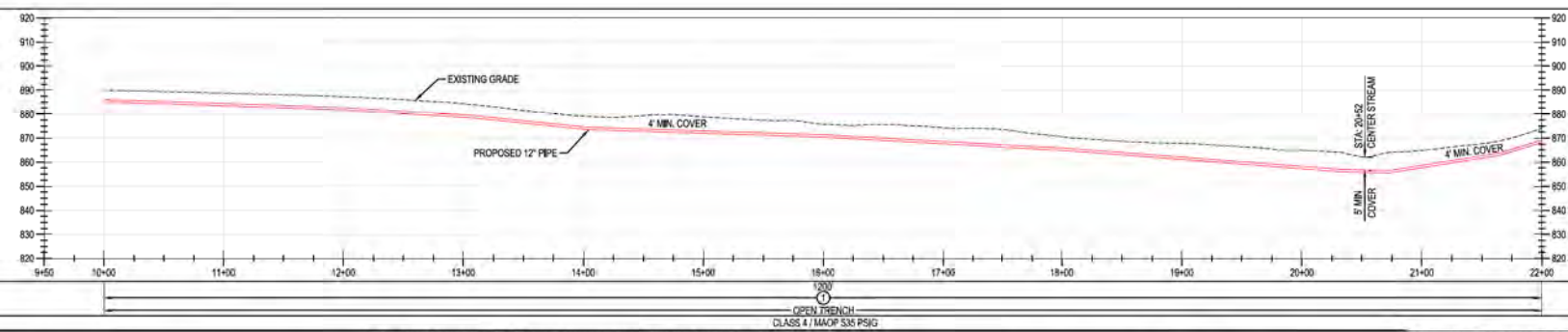
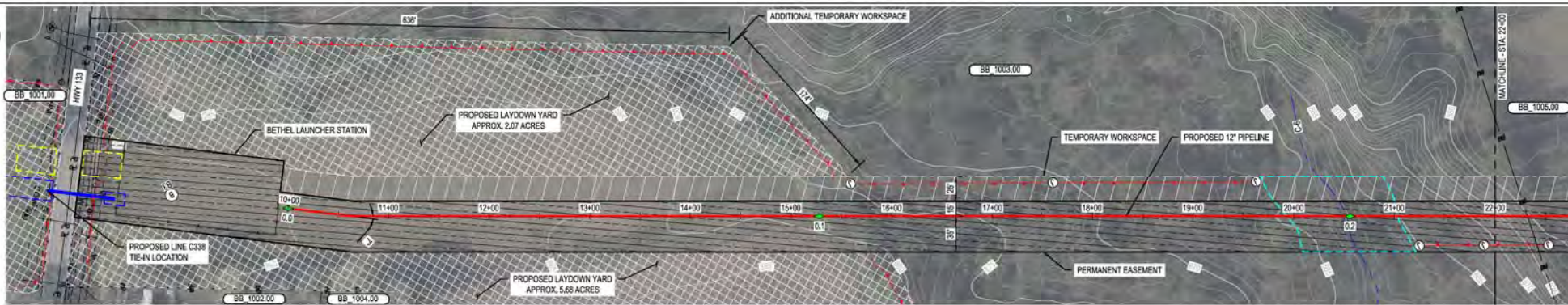
STATIONING

PLAN
VERTICAL SCALE 1" = 50'
HORIZONTAL SCALE 1" = 50'

PIPE DATA
(SLOPE STATIONING)
STA. WELLS # (DWD) WELLS # (DWD)
SLOPE (DWD) SLOPE (DWD)

PROFILE
VERTICAL SCALE 1" = 25'

MATERIAL
CONSTR. METHOD
CLASS / MAOP



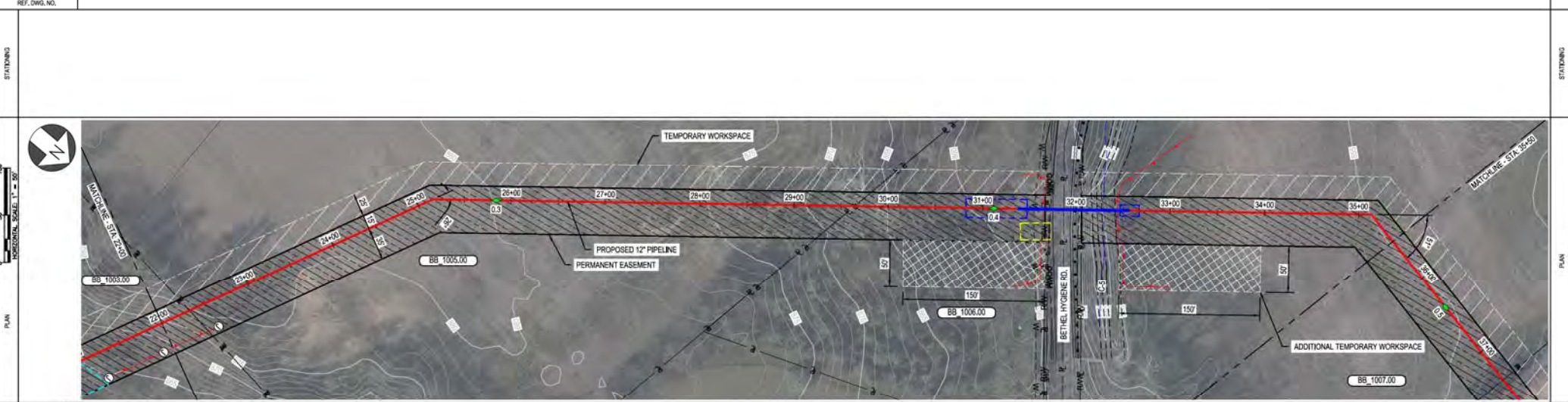
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REF. DWG(S) SEE REFERENCE BAND

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C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982	-	-	-
DRAWING BY			SFS		-					
STATION ID			-		-					
CHECKER INITIALS			JMP		-					

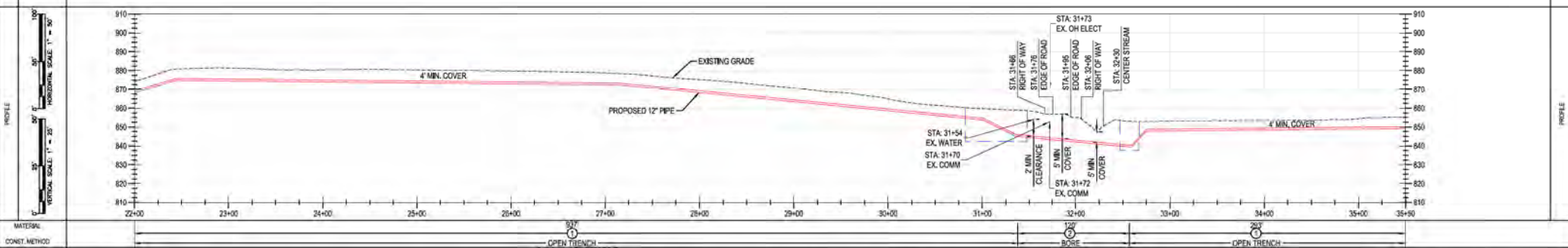
**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE 10/07/2020 SUPERSEDED
DRAWING NUMBER PNG -C-367-0002030 REVISION C
CNS/KELLOGG/C367

RIGHT-OF-WAY	OWNERSHIP	BB_1003.00	BB_1005.00	BB_1006.00	R/W	BB_1007.00
	JURISDICTION	FRANKLIN E & PATSY WILSON TATE TOWNSHIP	LUGAR DESECRETOS LLC TATE TOWNSHIP	ROGER PERRY TATE TOWNSHIP	TATE TOWNSHIP	MARK A & LINDA DENISE STRIMPLE TATE TOWNSHIP
	ACREAGE					
	EASEMENTS					
	REF. DWG. NO.					



PIPE DATA (SLOPE STATIONING)	WELL #	WELL #
	STA	STA
HOFF	WELL #	WELL #
	STA	STA



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

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REF. DWG(S) SEE REFERENCE BAND

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A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE	-	-
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER	AW1982	-
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER	AW1982	-

DRAWING BY: SFS
STATION ID:
CHECKER INITIALS: JMP

APPROVALS:

REGIONAL MANAGER	DATE	INITIALS
MGR TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

DUKE ENERGY | Piedmont Natural Gas

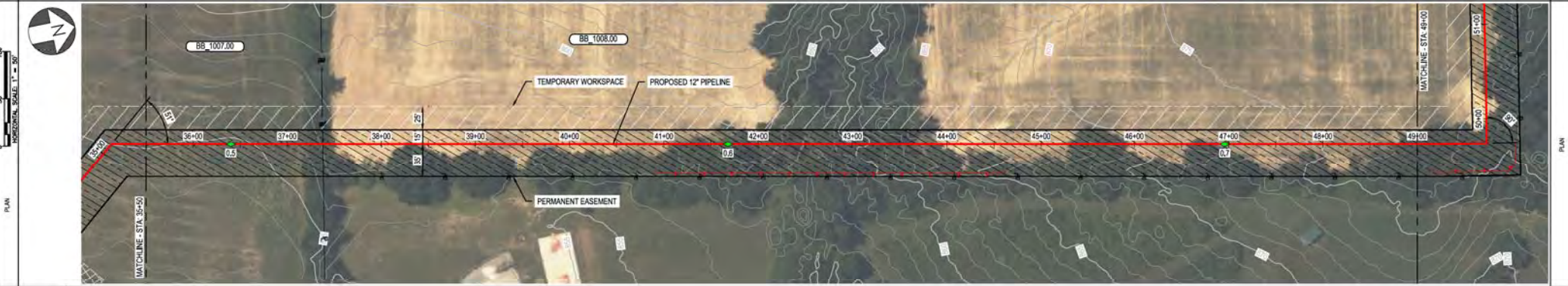
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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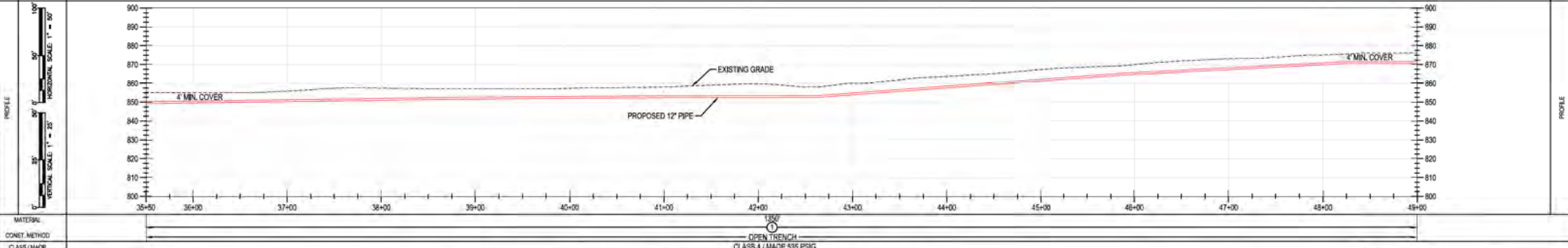
SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/07/2020 | SUPERSEDED
DRAWING NUMBER: PNG -C-367-0002031 | REVISION: C
CNS/KELLOGG/C367

RIGHT-OF-WAY	OWNERSHIP	BB_1007.00	BB_1008.00
	JURISDICTION	MARK A & LINDA DENSE STRIMPLE TATE TOWNSHIP	SINGLETON JEFFERY GLENN TRUSTEE TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL: OPEN TRENCH
CONST. METHOD: CLASS 4 / MADP 335 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

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<p>PROFESSIONAL ENGINEER STAMP</p>		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p>																																																														
<p>DUKE ENERGY, Piedmont Natural Gas</p>		<p>SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/07/2020 SUPERSEDED DRAWING NUMBER REVISION PNG -C-367-0002032 C CKELLOGG/CW7</p>																																																														

BB 1008.00
SINGLETON JEFFERY GLENN TRUSTEE
TATE TOWNSHIP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

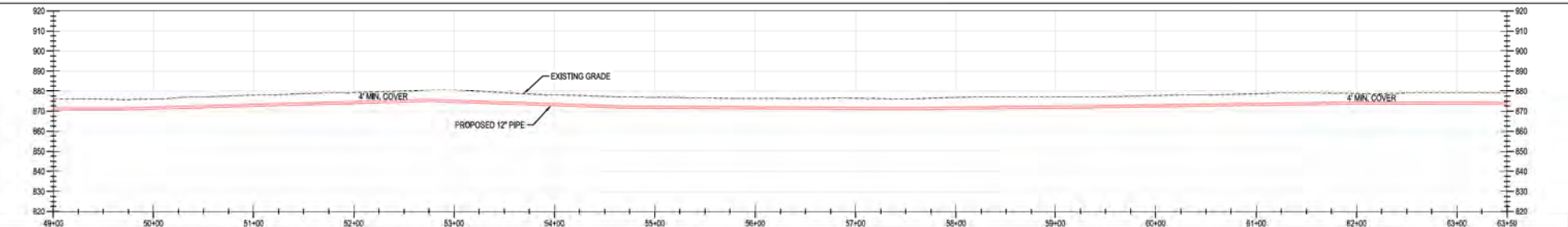
STATIONING

PLAN

PIPE DATA
(SLOPE STATIONING)

PROFILE

MATERIAL
CONST. METHOD
CLASS / MAMP



BURNS & MCCONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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BY	CHK	APPV	DESCRIPTION
SFS	JMP	CNS	AREA CODE
SFS	JMP	CNS	ACCOUNT NUMBER
SFS	JMP	CNS	PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

DATE	INITIALS	APPROVALS

REGIONAL FACILITATOR
MGR TECH REC & STD
PRINCIPAL ENGINEER

DUKE ENERGY **Piedmont Natural Gas**

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/07/2020
DRAWING NUMBER	367-0002033
REVISION	C

BB 1008.00
 SINGLETON JEFFERY GLENN TRUSTEE
 TATE TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

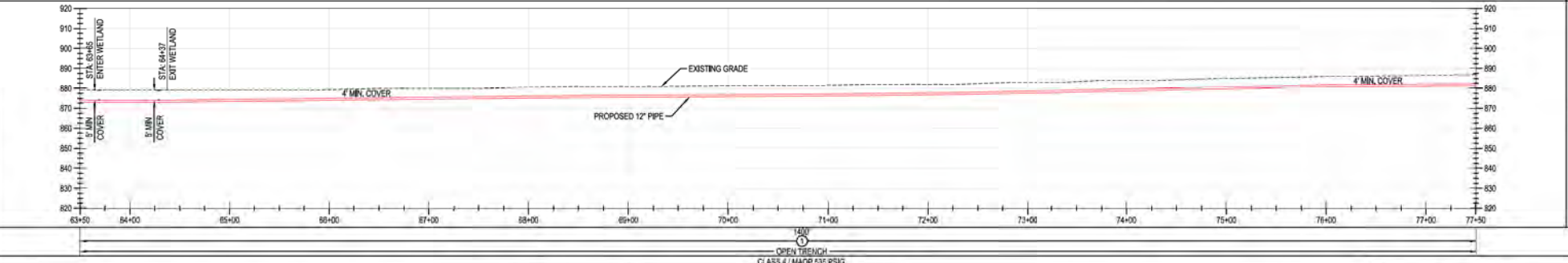
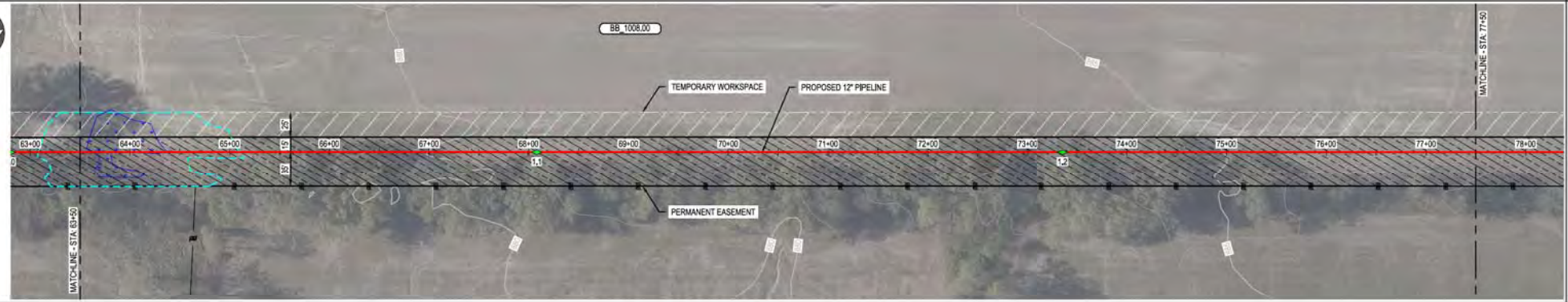
STATIONING

PLAN
 HORIZONTAL SCALE: 1" = 50'

PIPE DATA
 (SLOPE STATIONING)
 STA. WELLS # (DWD)
 STA. WELLS # (DWD)

PROFILE
 VERTICAL SCALE: 1" = 20'

MATERIAL
 CONST. METHOD
 CLASS / MAOP



OPEN TRENCH
 CLASS 4 / MAOP 535 PSIG

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REV.	DATE	REVISIONS/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
SFS	JMP	CNS	AREA CODE	-	-
SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-
SFS	JMP	CNS	PROJECT NUMBER	AW1982	-
			DRAWING BY	SFS	-
			STATION ID		-
			CHECKER INITIALS	JMP	-

APPROVALS		REGIONAL PROJECTED
DATE	INITIALS	MANR TECH REC & STD
DATE	INITIALS	PRINCIPAL ENGINEER

DUKE ENERGY **Piedmont Natural Gas**

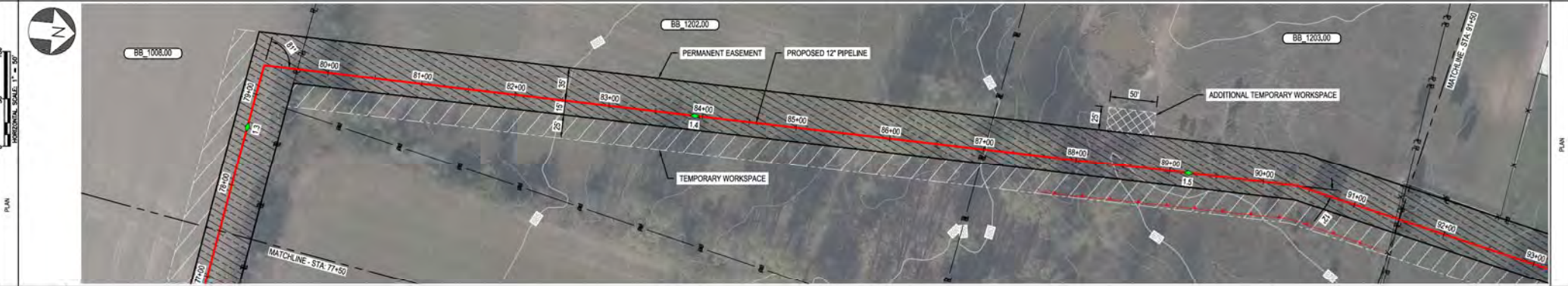
**C367 PIPELINE
 ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO**

KELLOGG, OH
 COPYRIGHT 2020

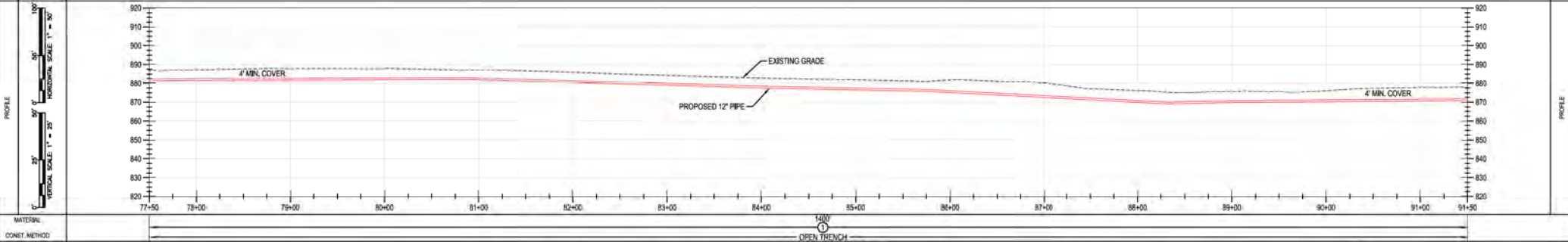
REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/07/2020
DRAWING NUMBER	8UPPERSEED
REVISION	
PNG -C-367-0002034	C
CNSKELLOGG/C367	

R/O OF HWY	OWNERSHIP	BB 1008.00	BB 1202.00	BB 1203.00
	JURISDICTION	SINGLETON, JEFFERY GLENN TRUSTEE TATE TOWNSHIP	LINDA C QUALTERS TATE TOWNSHIP	EDWARD & KAREN VANTASSEL TATE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	OD (IN)	DEPTH (IN)	WELL #	OD (IN)
	STA	WELL #	OD (IN)	DEPTH (IN)	WELL #	OD (IN)
	STA	WELL #	OD (IN)	DEPTH (IN)	WELL #	OD (IN)
	STA	WELL #	OD (IN)	DEPTH (IN)	WELL #	OD (IN)

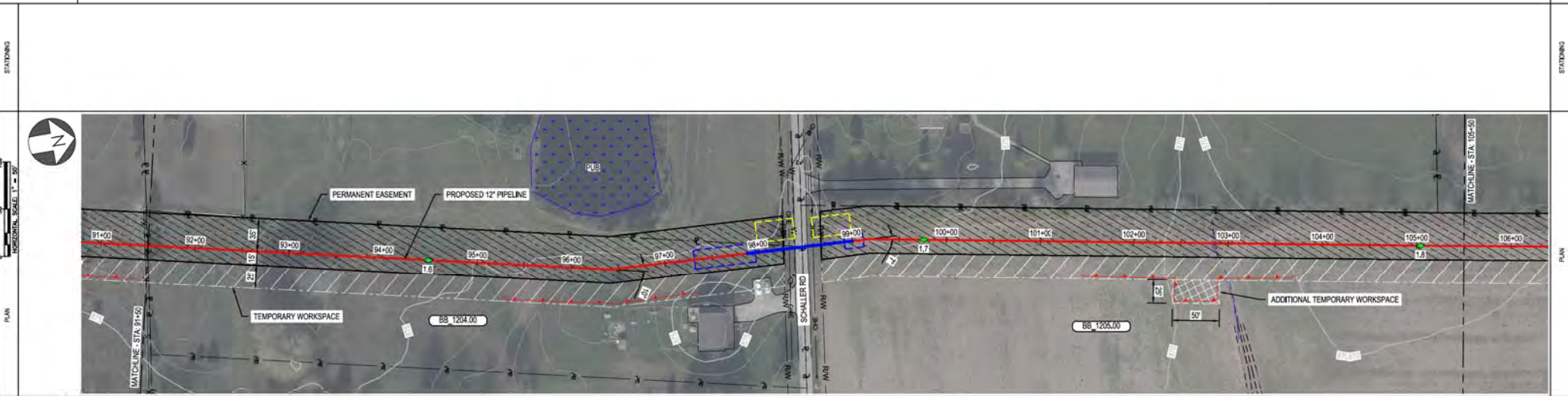


MATERIAL: GREEN TRENCH CLASS 4 / MAOP 535 PSIG

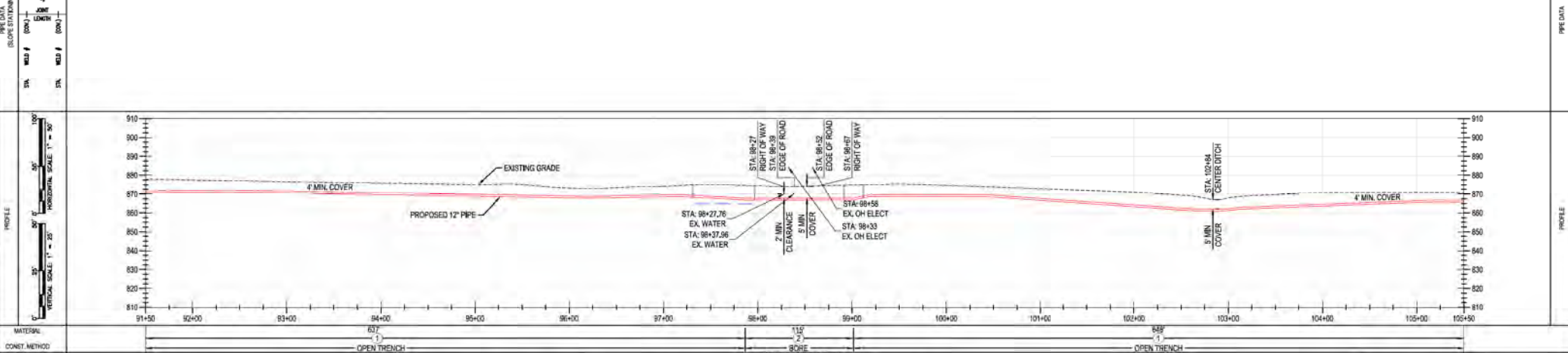
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		REF. DWG(S)	SEE REFERENCE BAND																																																																			
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RIGHT-OF-WAY	OWNERSHIP	BB 1204.00	R/W	BB 1205.00	RIGHT-OF-WAY
	JURISDICTION	JULIE PETERSON TATE TOWNSHIP	TATE TOWNSHIP	BONNIE LEE NISHIMOTO TATE TOWNSHIP	
	ACREAGE				
	EASEMENTS				
REF. DWG. NO.					

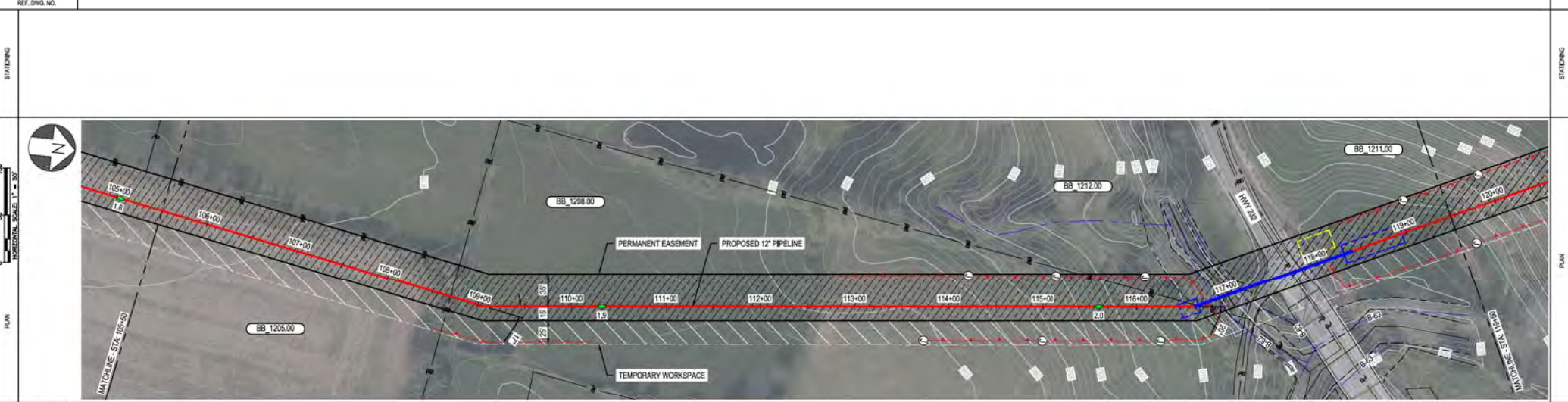


NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.

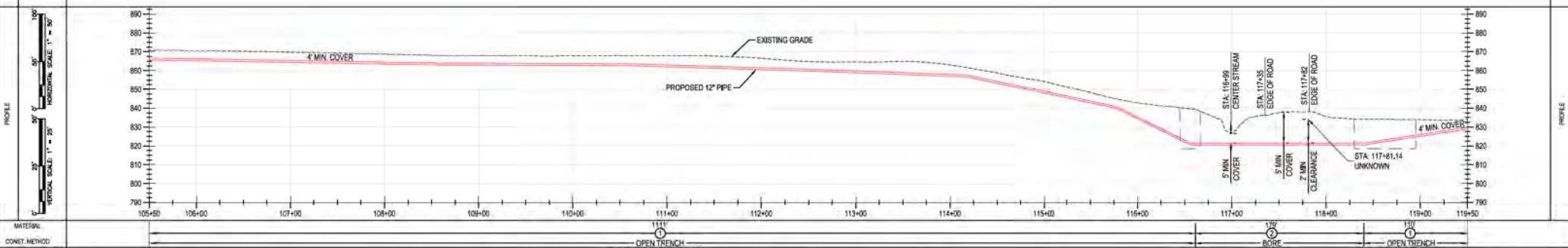


BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557		DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).				REF. DWG(S) SEE REFERENCE BAND	
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OWNERSHIP	BB_1205.00	BB_1208.00	BB_1212.00	BB_1211.00
JURISDICTION	BONNIE LEE NISHIMOTO TATE TOWNSHIP	BP & JCP TATE TOWNSHIP	SCOTT ROUSH TATE TOWNSHIP	THOMAS W OBERSCHLAK TATE TOWNSHIP
ACREAGE				
EASEMENTS				
REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COV	WELL #	COV
	105+00		4 MIN		
	106+00		4 MIN		
	107+00		4 MIN		
	108+00		4 MIN		
	109+00		4 MIN		
	110+00		4 MIN		
	111+00		4 MIN		
	112+00		4 MIN		
	113+00		4 MIN		
	114+00		4 MIN		
	115+00		4 MIN		
	116+00		4 MIN		
	117+00		5 MIN		
	117+05		5 MIN		
	117+14		7 MIN		
	118+00		4 MIN		
	119+00		4 MIN		
	119+50		4 MIN		



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

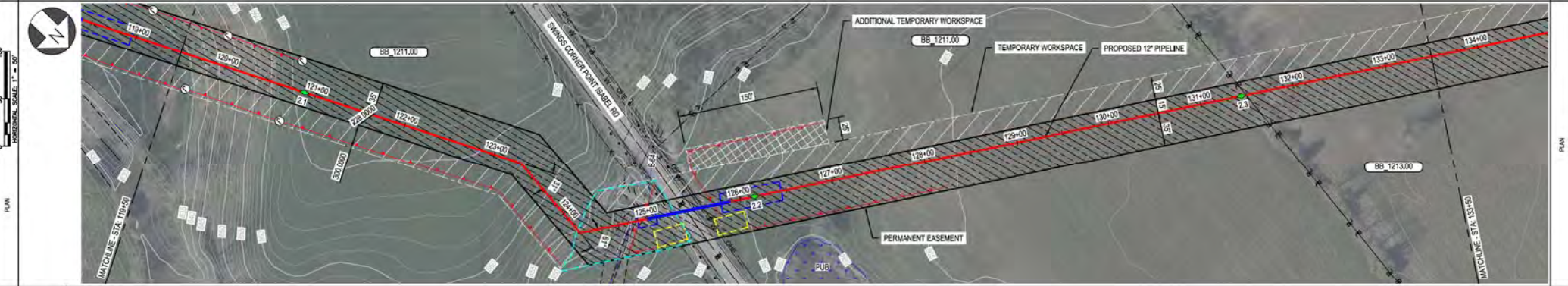
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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<p>COPYRIGHT 2020</p>		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO</p>																																		
<p>PROFESSIONAL ENGINEER STAMP</p>		<p>KELLOGG, OH</p>																																		

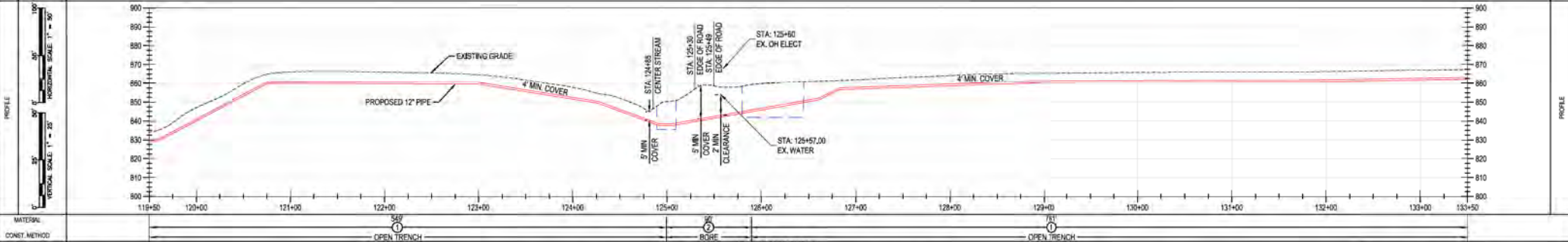
SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	10/07/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002037		
REVISION	C		

RIGHT-OF-WAY	OWNERSHIP	BB 1211.00	BB 1213.00
	JURISDICTION	THOMAS W OBERSCHLAKÉ	THOMAS W BROWN
	ACREAGE		TATE TOWNSHIP
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	12	12
	SIZE	12"	12"
	WALL #	0000	0000
	STA	119+00	134+00



MATERIAL: CLASS 4 / MAOP 535 PSIG

CONST. METHOD: OPEN TRENCH, BORE, OPEN TRENCH

CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

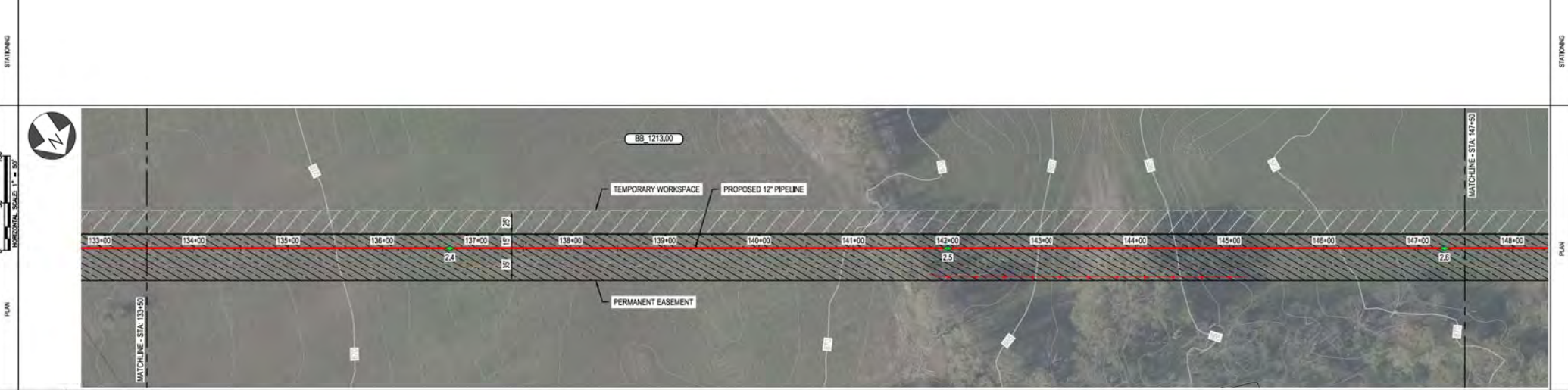
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REV	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION																																																														
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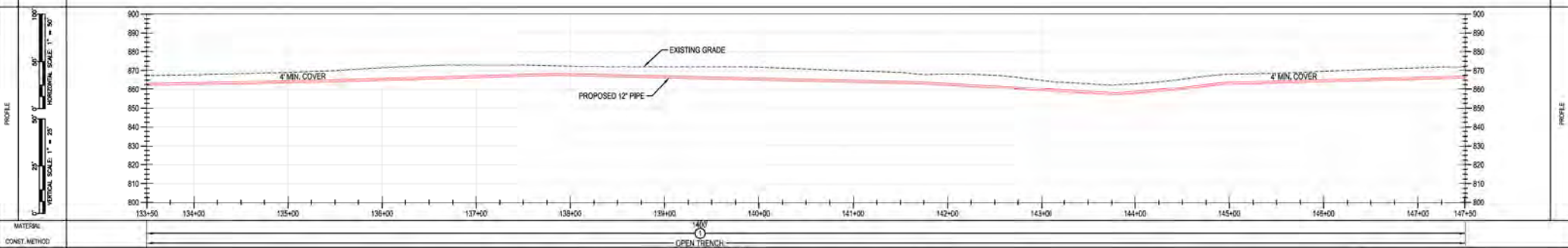
PROFESSIONAL ENGINEER/STAMP

COPYRIGHT 2020

OWNERSHIP	BB 1213.00
JURISDICTION	THOMAS W BROWN
ADREAGE	TATE TOWNSHIP
EASEMENTS	
REF. DWG. NO.	



PIPE DATA (SLOPE STATIONING)	PIPE DATA (SLOPE STATIONING)
STA: 133+00	STA: 133+00
WELL #	WELL #
DEPTH	DEPTH
DIAMETER	DIAMETER
WELL #	WELL #
DEPTH	DEPTH
DIAMETER	DIAMETER



MATERIAL: _____
 CONST. METHOD: _____
 CLASS / MAOP: _____
 4' MIN. COVER
 PROPOSED 12" PIPE
 EXISTING GRADE
 4' MIN. COVER
 OPEN TRENCH
 CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567
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 *PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY
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DUKE ENERGY

Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

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SHEET(S) 1 OF X DWG SCALE AS NOTED

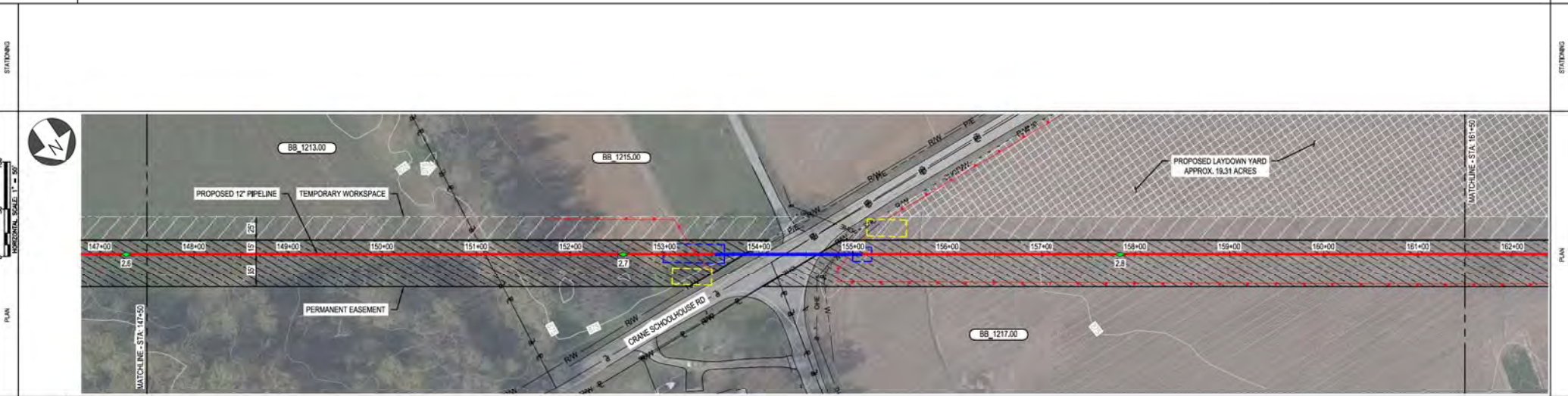
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DRAWING NUMBER PNG -C-367-0002039

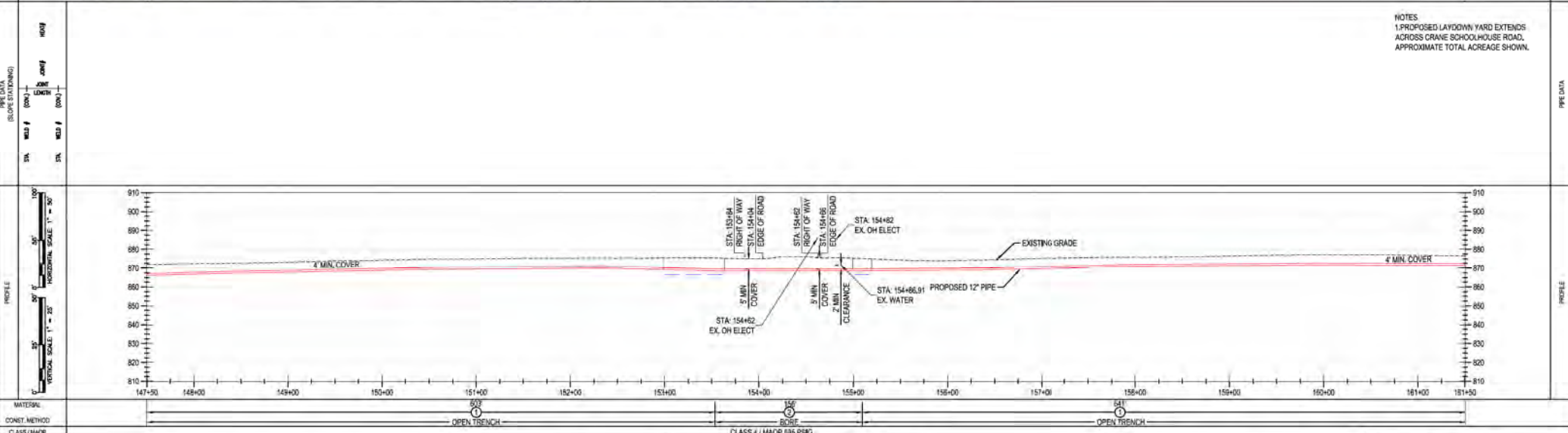
REVISION C

CKELLOGG/CW7

OWNERSHIP	BB 1213.00	BB 1215.00	RW	BB 1217.00
JURISDICTION	THOMAS W BROWN	JOEL SHEBESTA		MARTHA JEAN ROSE
TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP	TATE TOWNSHIP
ADREAGE				
EASEMENTS				
REF. DWG. NO.				



NOTES
 1. PROPOSED LAYDOWN YARD EXTENDS ACROSS CRANE SCHOOLHOUSE ROAD, APPROXIMATE TOTAL ACREAGE SHOWN.



BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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REGIONAL MANAGER
MGR TECH REC & STD
PRINCIPAL ENGINEER

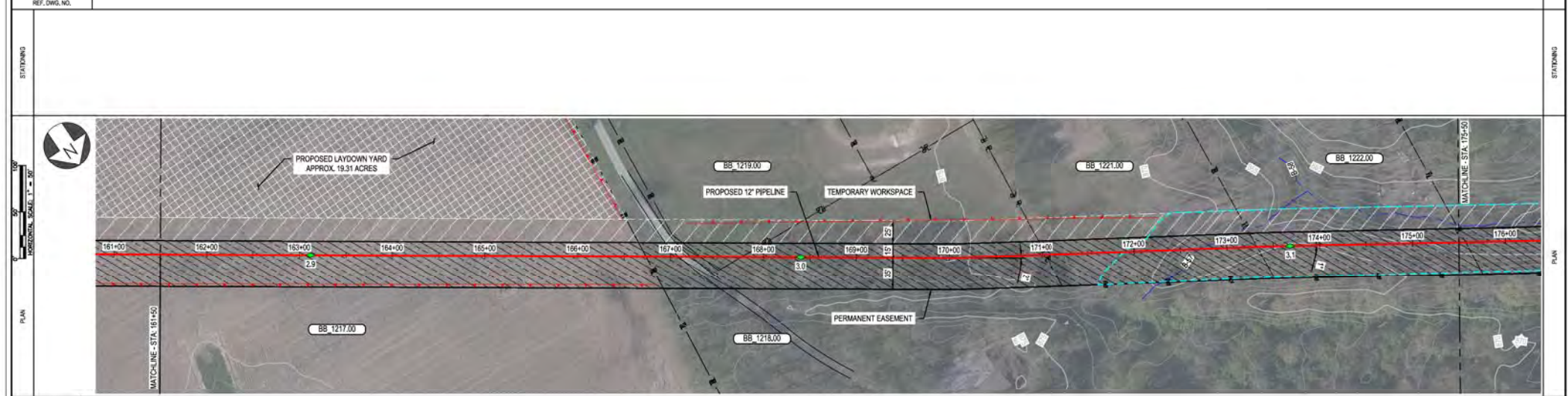
DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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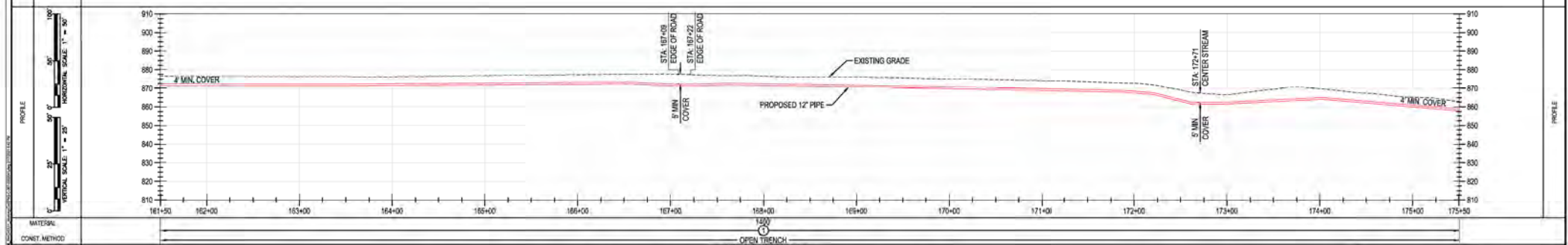
REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X DWG SCALE AS NOTED
DWG DATE	10/08/2020 SUPERSEDED
DRAWING NUMBER	PNG -C-367-0002040
REVISION	C

OWNERSHIP	BB_1217.00	BB_1218.00	BB_1219.00	BB_1218.00	BB_1221.00	BB_1222.00
JURISDICTION	MARTHA JEAN ROSE TATE TOWNSHIP	TATE TOWNSHIP	TONY & ROBERTA JEAN GINN TATE TOWNSHIP	WILLIAM R & DENIS A GRANNEN TATE TOWNSHIP	SUE LANIGAN TATE TOWNSHIP	SUE LANIGAN TATE TOWNSHIP
ACREAGE						
EASEMENTS						
REF. DWG. NO.						



NOTES
 1. PROPOSED LAYDOWN YARD EXTENDS ACROSS CRANE SCHOOLHOUSE ROAD, APPROXIMATE TOTAL ACREAGE SHOWN.

PIPE DATA (SLOPE STATIONING)	STA	WELD #	OD	W	THICK	CLASS	MAOP
	161+00		12"	0.1875	0.1875	4	535 PSIG
	162+00		12"	0.1875	0.1875	4	535 PSIG
	163+00		12"	0.1875	0.1875	4	535 PSIG
	164+00		12"	0.1875	0.1875	4	535 PSIG
	165+00		12"	0.1875	0.1875	4	535 PSIG
	166+00		12"	0.1875	0.1875	4	535 PSIG
	167+00		12"	0.1875	0.1875	4	535 PSIG
	168+00		12"	0.1875	0.1875	4	535 PSIG
	169+00		12"	0.1875	0.1875	4	535 PSIG
	170+00		12"	0.1875	0.1875	4	535 PSIG
	171+00		12"	0.1875	0.1875	4	535 PSIG
	172+00		12"	0.1875	0.1875	4	535 PSIG
	173+00		12"	0.1875	0.1875	4	535 PSIG
	174+00		12"	0.1875	0.1875	4	535 PSIG
	175+00		12"	0.1875	0.1875	4	535 PSIG



MATERIAL	OPEN TRENCH
CONST. METHOD	CLASS 4 / MAOP 535 PSIG
CLASS / MAOP	

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/08/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002041

REVISION C

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

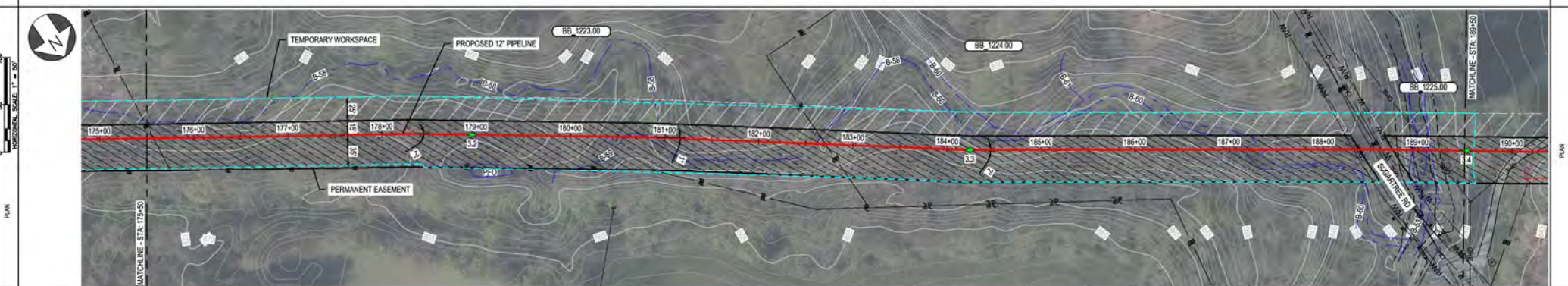
KELLOGG, OH

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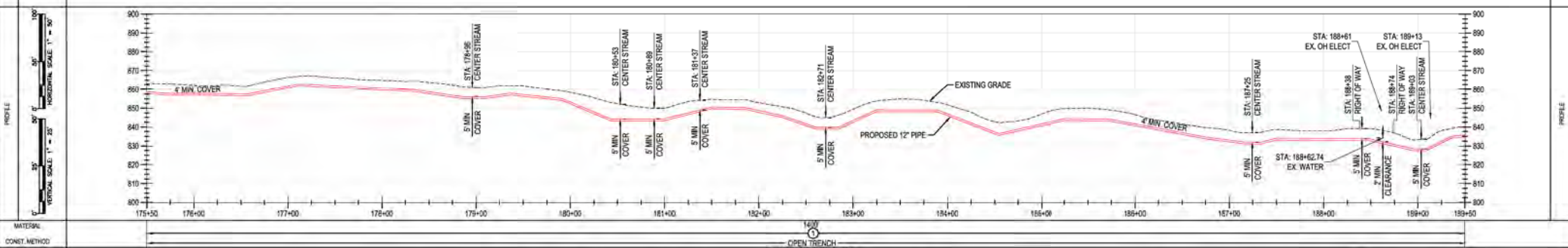
REV	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS ACCOUNT NUMBER	AW1982	-	MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

R/W OF WAY	OWNERSHIP	BB 1223.00	BB 1224.00	R/W	BB 1225.00
	JURISDICTION	LUCILLE T SMITH	DANIEL KERRY & LINDA SMITH	TATE TOWNSHIP	DANIEL K JR & ANGELA RIFFLE
	ADREAGE				
	EASEMENTS				
REF. DWG. NO.					

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	DDW	WELL #	DDW
	STA	WELL #	DDW	WELL #	DDW
	STA	WELL #	DDW	WELL #	DDW
	STA	WELL #	DDW	WELL #	DDW



MATERIAL: OPEN TRENCH CLASS 4 / MAMP 535 PSIG

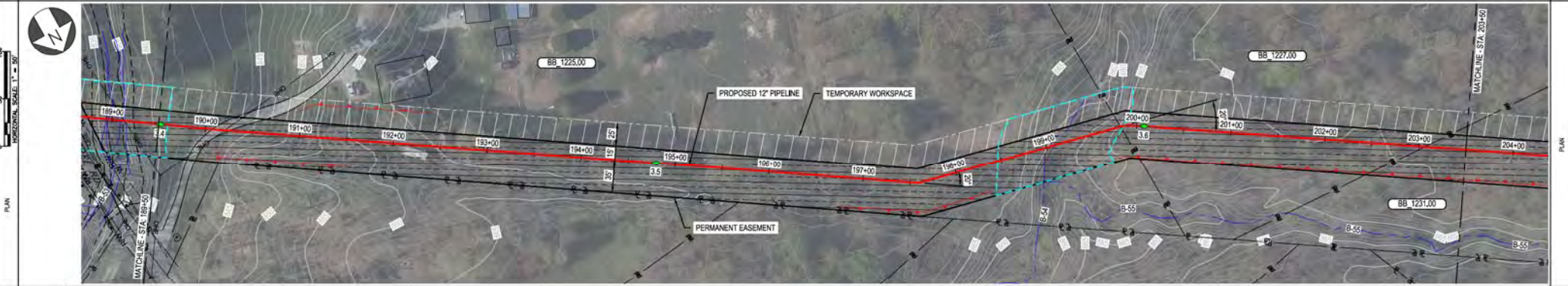
BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

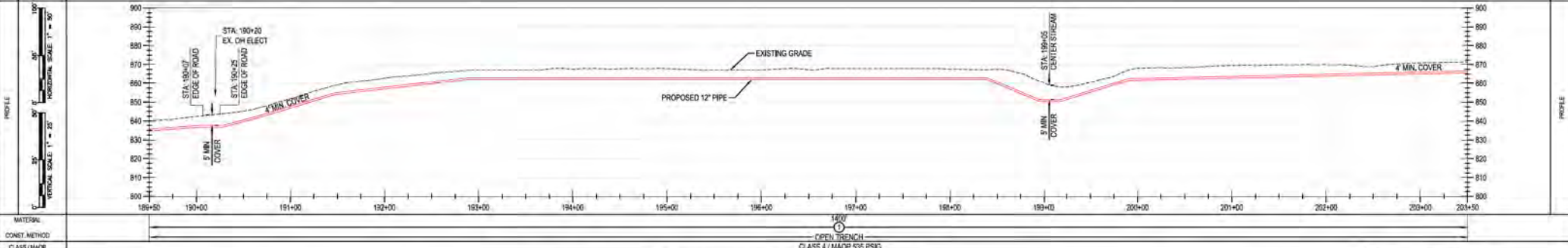
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>REVISION/DESCRIPTION</th> <th>BY</th> <th>CHK (APPR)</th> <th>DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>SFS</td> <td>JMP</td> <td>CNS</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>SFS</td> <td>JMP</td> <td>CNS</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>SFS</td> <td>JMP</td> <td>CNS</td> </tr> </table>	REV	DATE	REVISION/DESCRIPTION	BY	CHK (APPR)	DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	<table border="1"> <tr> <th>DATE</th> <th>INITIALS</th> <th>APPROVALS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	INITIALS	APPROVALS							<table border="1"> <tr> <td>REGIONAL ENGINEER</td> <td> </td> </tr> <tr> <td>MGR TECH REC & STD</td> <td> </td> </tr> <tr> <td>PRINCIPAL ENGINEER</td> <td> </td> </tr> </table>	REGIONAL ENGINEER		MGR TECH REC & STD		PRINCIPAL ENGINEER		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p>	<p>REF. DWG(S) SEE REFERENCE BAND</p> <p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE 10/06/2020 SUPERSEDED</p> <p>DRAWING NUMBER PNG -C-367-0002042 C</p> <p>REVISION C</p> <p>CNS/KELLOGG/CW7</p>
REV	DATE	REVISION/DESCRIPTION	BY	CHK (APPR)	DESCRIPTION																																						
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS																																						
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS																																						
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS																																						
DATE	INITIALS	APPROVALS																																									
REGIONAL ENGINEER																																											
MGR TECH REC & STD																																											
PRINCIPAL ENGINEER																																											

RIGHT-OF-WAY	OWNERSHIP	BB 1225.00	BB 1227.00	BB 1231.00
	JURISDICTION	DANIEL K JR & ANGELA RIFFLE	KATHARINE H REMMACHER	KATHARINE H REMMACHER
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	12
	SIZE	12"
	DEPTH	4'
	COVER	4'



MATERIAL: OPEN TRENCH CLASS 4 / MADP 536 PSIG

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/08/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002043

REVISION C

CNS/KELLOGG/CW7

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567	REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	BY: SFS CHK: JMP DATE:	DESCRIPTION: AREA CODE PROJECT NUMBER: AW1982 DRAWING BY: SFS STATION ID: CHECKER INITIALS: JMP	APPROVALS: REGIONAL ENGINEER, MGR TECH REC & STD, PRINCIPAL ENGINEER	DUK ENERGY, Piedmont Natural Gas	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH	COPYRIGHT 2020
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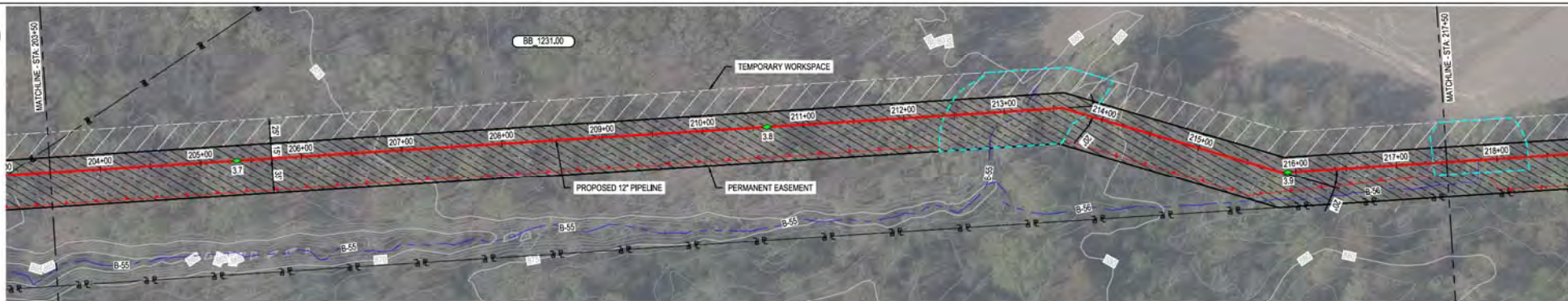
BB 1231.00
KATHARINE H RAMMACHER
TATE TOWNSHIP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

STATIONING

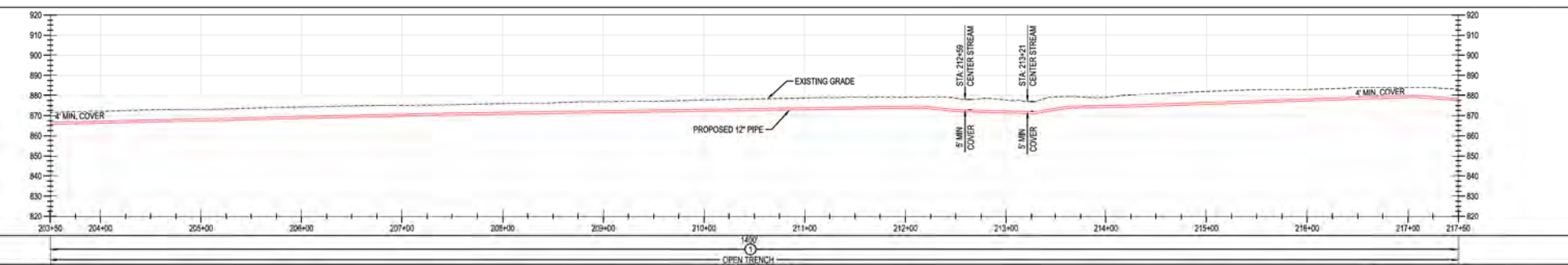


PLAN
HORIZONTAL SCALE 1" = 50'



PIPE DATA
(SLOPE STATIONING)
STA. WELLS # (DIN)
SLOPE
FOOT

PROFILE
VERTICAL SCALE 1" = 20'



MATERIAL
CONSTR. METHOD
CLASS / MAOP

OPEN TRENCH
CLASS # / MAOP 536 PSIG

BURNS & MCCONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01567

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REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER AW1982
					DRAWING BY SFS
					STATION ID
					CHECKER INITIALS JMP

APPROVALS	
REGIONAL MANAGER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	

DUKE ENERGY
Piedmont Natural Gas

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**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 10/06/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002044	C
CNKL00000007	

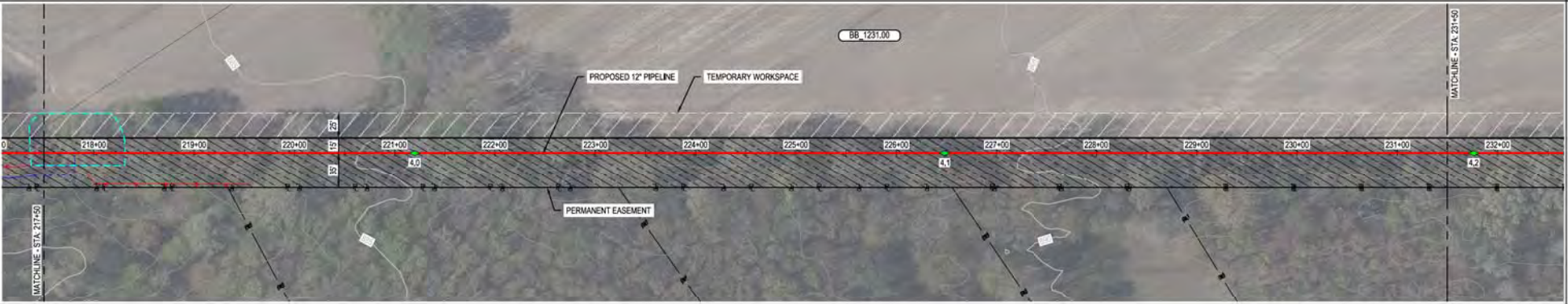
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KATHARINE H RAMMACHER
TATE TOWNSHIP

OWNERSHIP
JURISDICTION
ACREAGE
EASEMENTS
REF. DWG. NO.

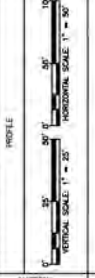
STATIONING



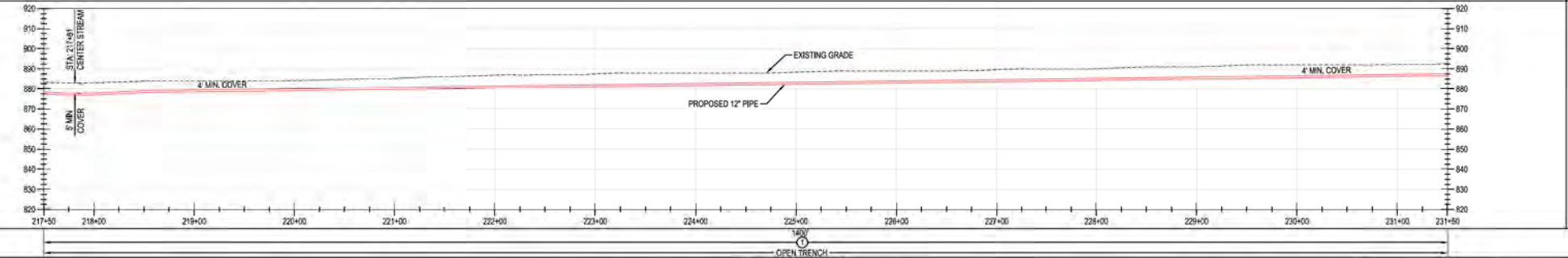
PLAN



PIPE DATA
(SLOPE STATIONING)
STA. WELLS # (DWD) WELLS # (DWD)
SLOPE
SLOPE
SLOPE



MATERIAL
CONST. METHOD
CLASS / MAMP



BURNS & MCCONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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REV.	DATE	REVISIONS/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPR	DESCRIPTION
SFS	JMP	CNS	AREA CODE
SFS	JMP	CNS	ACCOUNT NUMBER
SFS	JMP	CNS	PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

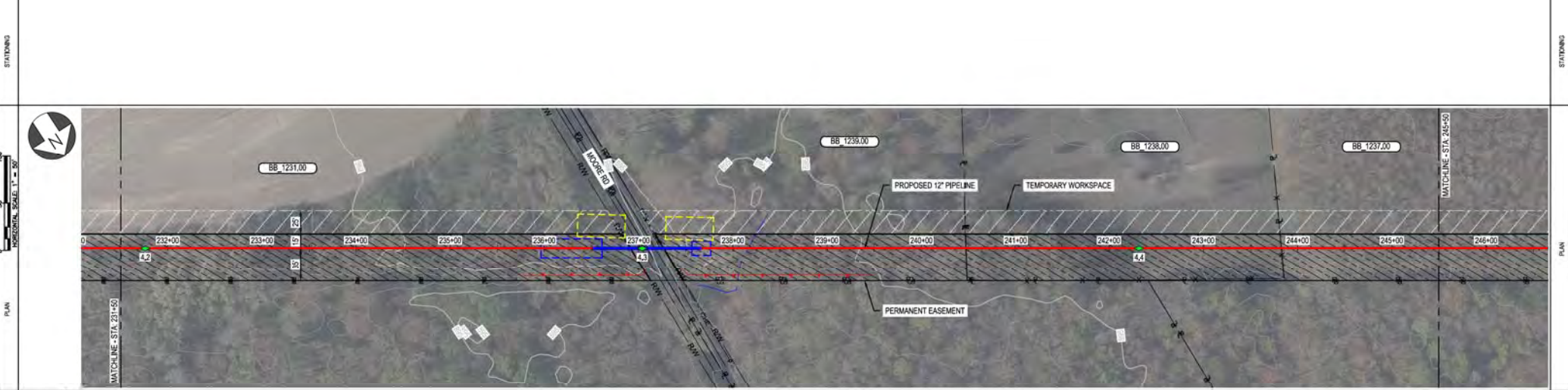
DATE	INITIALS	APPROVALS
		REGIONAL MANAGER
		MGR. TECH REC & STD
		PRINCIPAL ENGINEER

**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**

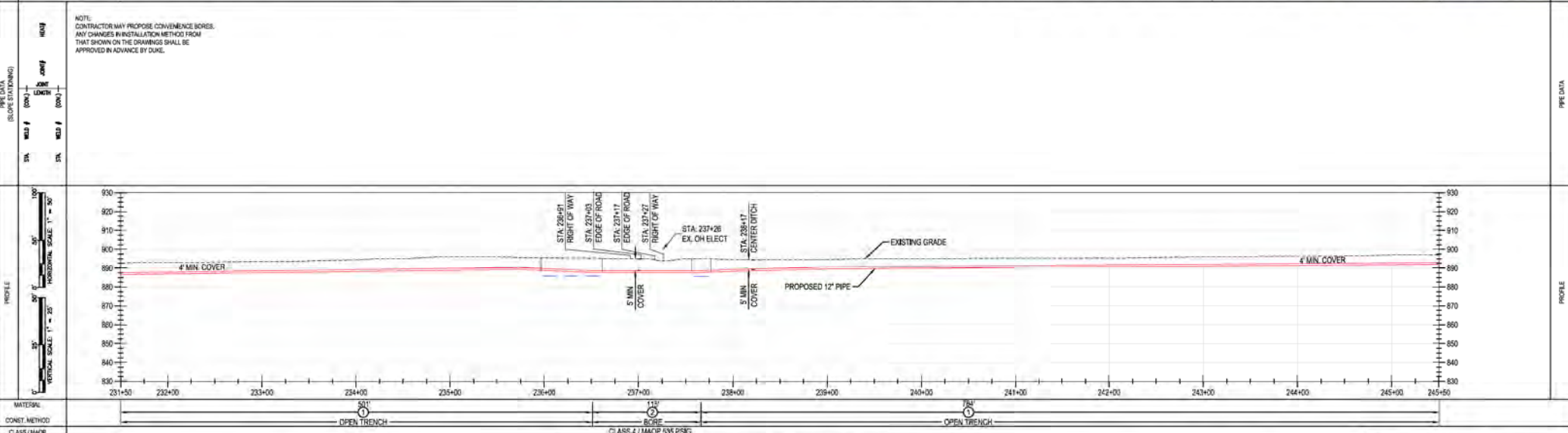
KELLOGG, OH
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REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/06/2020
DRAWING NUMBER	PNG -C-367-0002045
REVISION	C

OWNERSHIP	BB 1231.00	R/W	BB 1236.00	BB 1238.00	BB 1237.00
JURISDICTION	KATHARINE H RAMMACHER TATE TOWNSHIP	TATE TOWNSHIP	MARY STONE HARNESSE TATE TOWNSHIP	MARY STONE HARNESSE TATE TOWNSHIP	HOWARD L SCHULTZ TATE TOWNSHIP
ACREAGE					
EASEMENTS					
REF. DWG. NO.					



NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.



MATERIAL	PIPE	OPEN TRENCH	OPEN TRENCH
CONST. METHOD			
CLASS / MAP			

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

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REF. DWG(S) SEE REFERENCE BAND

REV	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	AREA CODE	-	-
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982	-
DRAWING BY			SFS		REGIONAL MANAGER			
STATION ID					MGR TECH REC & STD			
CHECKER INITIALS			JMP		PRINCIPAL ENGINEER			

DUKE ENERGY | Piedmont Natural Gas

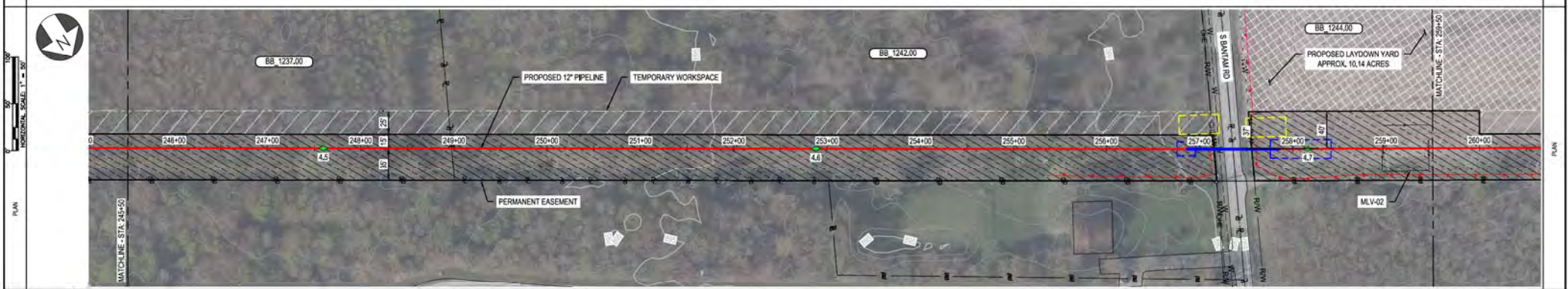
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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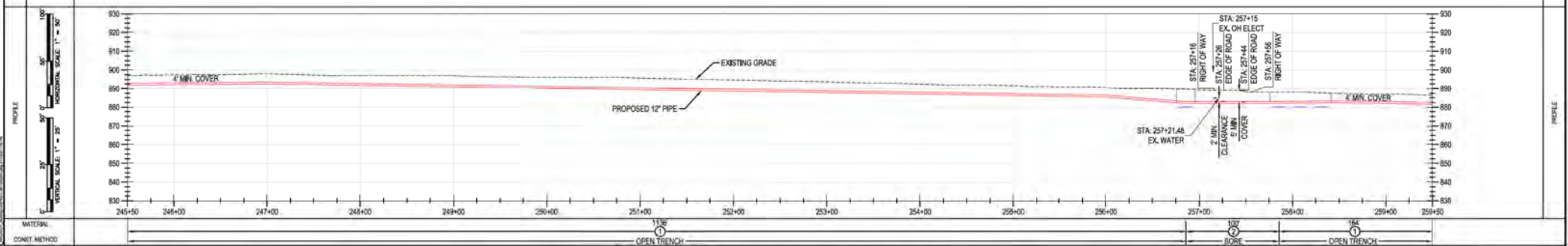
SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/06/2020 | SUPERSEDED
DRAWING NUMBER PNG -C-367-0002046 | REVISION C
CKELLOGG/C367

RIGHT-OF-WAY	OWNERSHIP	BB 1237.00	BB 1242.00	RW	BB 1244.00	RIGHT-OF-WAY
	JURISDICTION	HOWARD L SCHULTZ	STEVEN W & PATRICIA L KING	TATE TOWNSHIP	MARTHA JEAN ROSE	
	ACREAGE	TATE TOWNSHIP	TATE TOWNSHIP		TATE TOWNSHIP	
	EASEMENTS					
REF. DWG. NO.						

STATIONING



PIPE DATA (SLOPE STATIONING)	NOTE: CONTRACTOR MAY PROPOSE CONVENIENCE SIZES. ANY CHANGES IN INSTALLATION METHOD FROM THAT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN ADVANCE BY DUKE.									
	<table border="1"> <tr> <th>STA</th> <th>WELL #</th> <th>COND</th> <th>WELL #</th> <th>COND</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	STA	WELL #	COND	WELL #	COND				
STA	WELL #	COND	WELL #	COND						



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002047 REVISION C

DATE 11-06-2020 ISSUED FOR 30% REVIEW

DATE 12-18-2020 REVISED 30% DESIGN

DATE 02-19-2021 60% DESIGN FOR OPSB

BY SFS JMP (SFS) DESCRIPTION

SFS JMP (SFS) AREA CODE

SFS JMP (SFS) ACCOUNT NUMBER AW1982

SFS JMP (SFS) PROJECT NUMBER AW1982

DRAWING BY SFS

STATION ID

CHECKER INITIALS JMP

APPROVALS

REGIONAL MANAGER

MGR TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

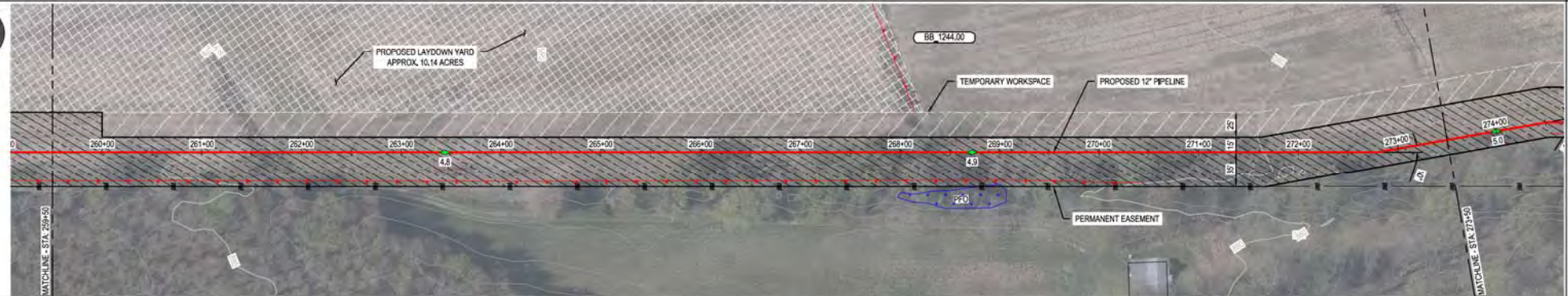
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PROFESSIONAL ENGINEER STAMP

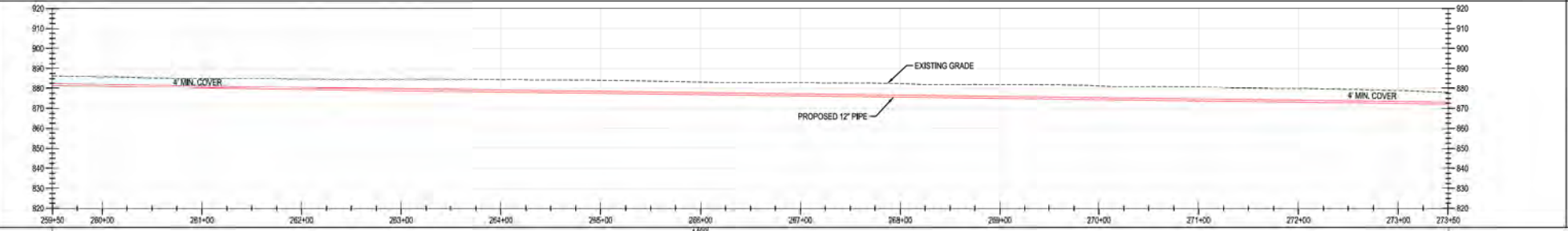
BB 1244.00
 MARTHA JEAN ROSE
 TATE TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

STATIONING



PIPE DATA
 (SLOPE STATIONING)
 STA. WELLS # (SLOPE)
 STA. WELLS # (SLOPE)



MATERIAL
 CONST. METHOD
 CLASS / MAOP

OPEN TRENCH
 CLASS 4 / MAOP 535 PSIG

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REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS: AREA CODE
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS: ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS: PROJECT NUMBER AW1982
					DRAWING BY SFS
					STATION ID
					CHECKER INITIALS JMP

APPROVALS	
REGIONAL MANAGER	DATE
MGR. TECH REC & STD	DATE
PRINCIPAL ENGINEER	DATE

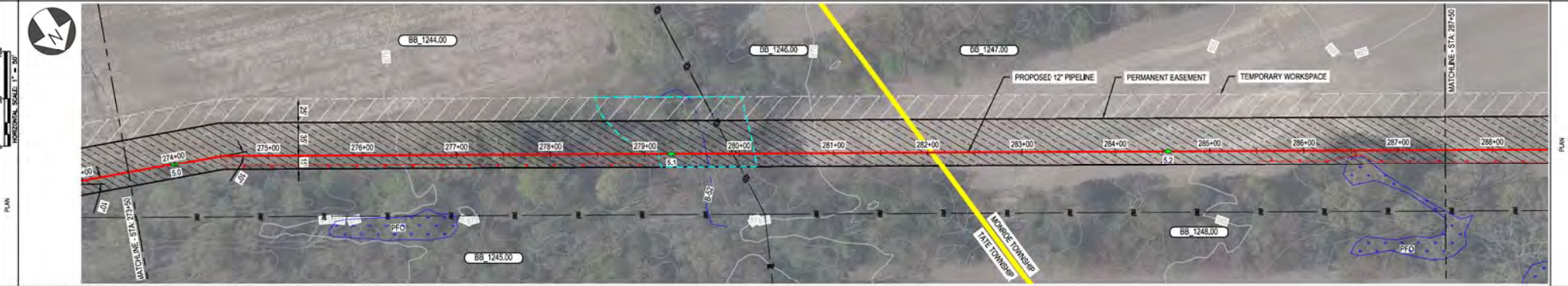
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 Piedmont Natural Gas
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 ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

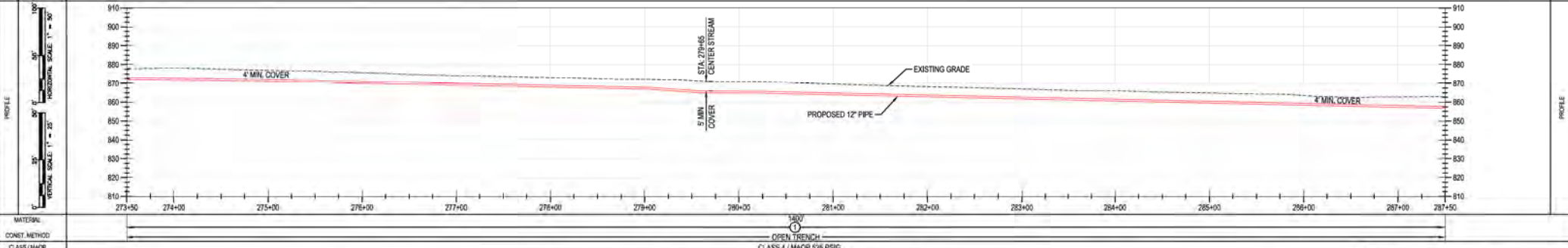
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 10/06/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002048	C
CNKLK0000007	

RIGHT-OF-WAY	OWNERSHIP	BB 1244.00	BB 1246.00 & 1247.00
	JURISDICTION	MARTHA JEAN ROSE TATE TOWNSHIP	JEFFREY GLENN SINGLETON, TRUSTEE MONROE TOWNSHIP / TATE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
------------	--



PIPE DATA (SLOPE STATIONING)	PIPE #	12
	SIZE	12\"/>



MATERIAL	OPEN TRENCH
CONST. METHOD	CLASS 4 / MAOP 535 PSIG
CLASS / MAOP	

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	AREA CODE	-	-	
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	ACCOUNT NUMBER	AW1982	-	
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	PROJECT NUMBER	AW1982	-	
		DRAWING BY	SFS					
		STATION ID						
		CHECKER INITIALS	JMP					

REGIONAL ENGINEER: [Signature]

MGR TECH REC & STD: [Signature]

PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/06/2020 SUPERSEDED

DRAWING NUMBER: PNG -C-367-0002049

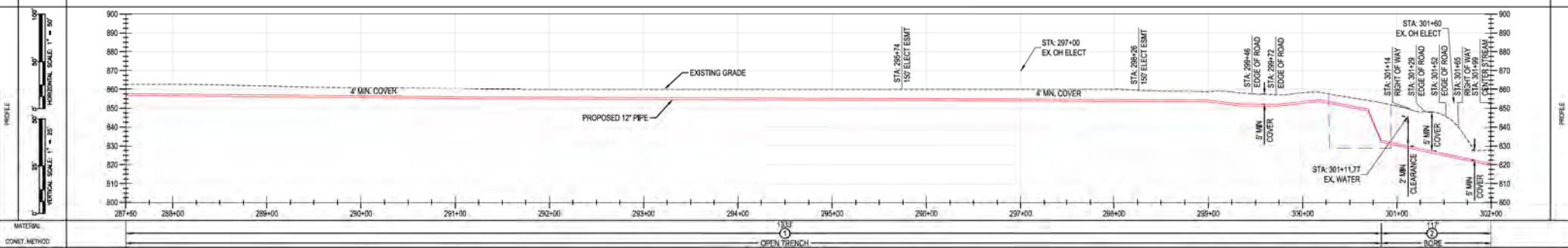
REVISION: C

CNKL000/C007

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1246.00 & 1247.00 JEFFREY GLENN SINGLETON, TRUSTEE MONROE TOWNSHIP / TATE TOWNSHIP		BB 1248.00 JAMES R GAINES & JANE W DECATUR TATE TOWNSHIP	RW TATE TOWNSHIP	BB 1249.00 JAMES R GAINES & JANE W DECATUR MONROE TOWNSHIP
	DUKE ENERGY 15" HVAC CORRIDOR				



PIPE DATA (SLOPE STATIONING)	STA. 287+00	STA. 288+00	STA. 289+00	STA. 290+00	STA. 291+00	STA. 292+00	STA. 293+00	STA. 294+00	STA. 295+00	STA. 296+00	STA. 297+00	STA. 298+00	STA. 299+00	STA. 300+00	STA. 301+00	STA. 302+00	STA. 303+00



MATERIAL: OPEN TRENCH CLASS 4 / MADP 838 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY: SFS CHK: JMP DATE: 02-19-2021		DESCRIPTION: PROJECT NUMBER: AW1982 DRAWING BY: SFS STATION ID: [blank] CHECKER INITIALS: JMP		APPROVALS: [blank]		REGIONAL ENGINEER: [blank] MGR TECH REC & STD: [blank] PRINCIPAL ENGINEER: [blank]		SHEET(S) 1 OF X DWG DATE 10/06/2020 DRAWING NUMBER: PNG -C-367-0002050 REVISION: C	
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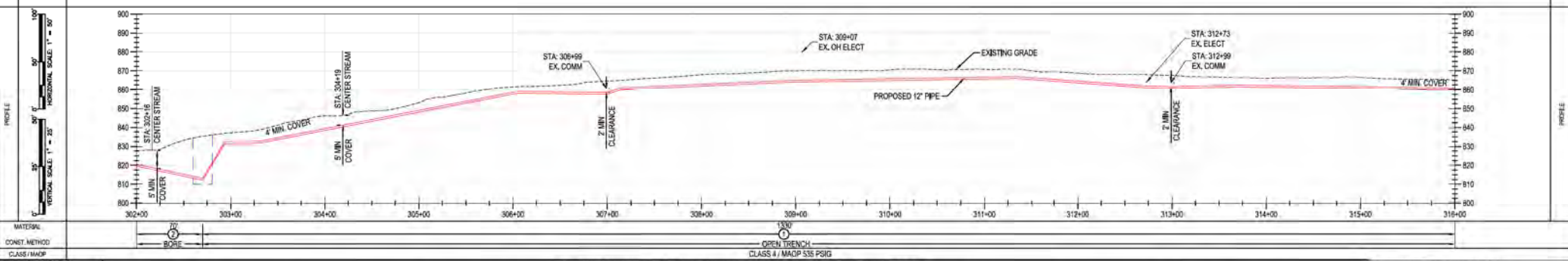
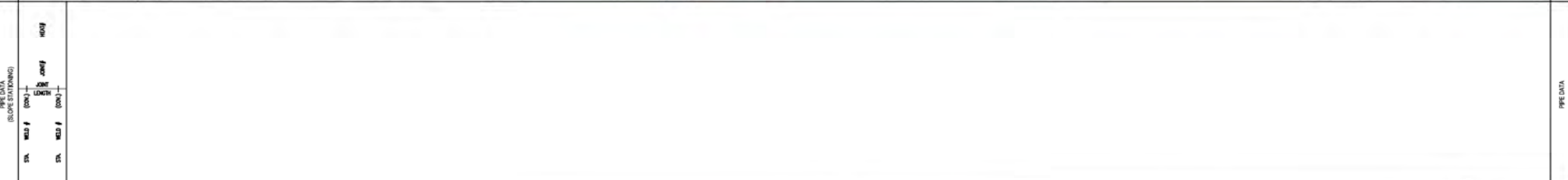
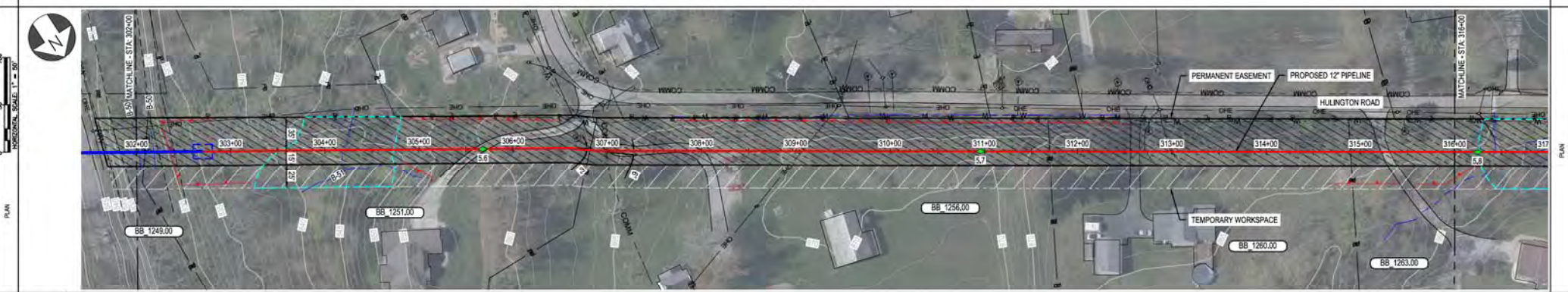
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

C367 PIPELINE ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO
 KELLOGG, OH

REF. DWG(S) SEE REFERENCE BAND
 SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 10/06/2020 SUPERSEDED
 DRAWING NUMBER: PNG -C-367-0002050
 REVISION: C
 CKS/KELLOGG/CW7

RIGHT-OF-WAY	OWNERSHIP	BB 1249.00	BB 1251.00	BB 1256.00	BB 1260.00	BB 1263.00
	JURISDICTION	JAMES R GAINES & JANE W DECATUR MONROE TOWNSHIP	THOMAS G & JANEL L LAMBERT MONROE TOWNSHIP	ROBERT E & CELIA U CAMPBELL MONROE TOWNSHIP	JESSICA A SOUZA MONROE TOWNSHIP	RACHEL ANNE & BRIAN DANIEL MUNGAN MONROE TOWNSHIP
	EASEMENTS					
REF. DWG. NO.						

STATIONING						
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BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

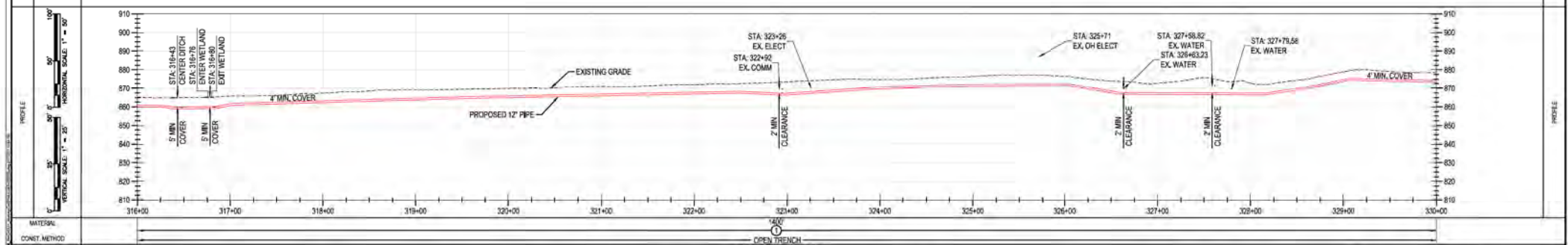
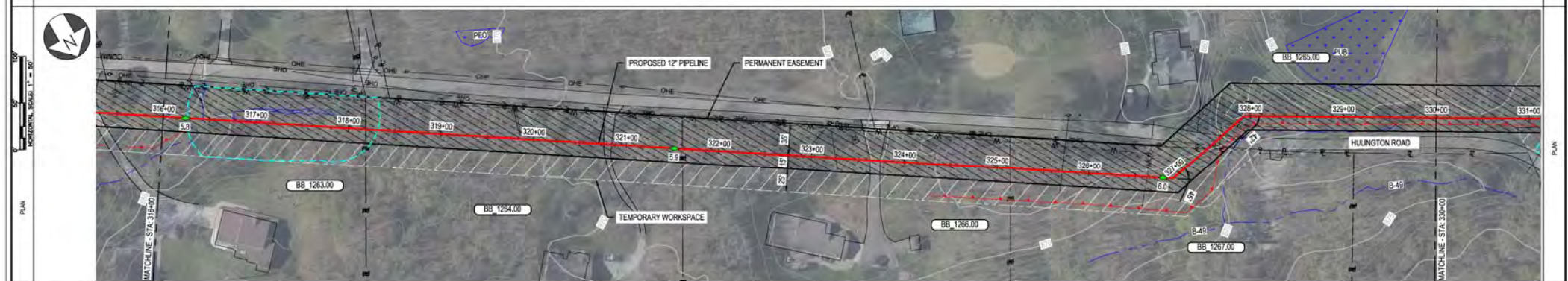
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISION DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

REF. DWG(S) SEE REFERENCE BAND

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISION/DESCRIPTION</th> <th>BY</th> <th>CHK (APPV)</th> <th>DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>SFS</td> <td>JMP</td> <td>CNS/AREA CODE</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>SFS</td> <td>JMP</td> <td>CNS/ACCOUNT NUMBER AW1982</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>SFS</td> <td>JMP</td> <td>CNS/PROJECT NUMBER AW1982</td> </tr> <tr> <td colspan="3">DRAWING BY SFS</td> <td colspan="3">STATION ID</td> </tr> <tr> <td colspan="3">CHECKER INITIALS JMP</td> <td colspan="3">PRINCIPAL ENGINEER</td> </tr> </table>	REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE	B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982	C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER AW1982	DRAWING BY SFS			STATION ID			CHECKER INITIALS JMP			PRINCIPAL ENGINEER			<table border="1"> <tr> <th colspan="2">APPROVALS</th> <th>REGIONAL ENGINEER</th> </tr> <tr> <td>DATE</td> <td>INITIALS</td> <td></td> </tr> <tr> <td>DATE</td> <td>INITIALS</td> <td></td> </tr> <tr> <td>DATE</td> <td>INITIALS</td> <td></td> </tr> </table>	APPROVALS		REGIONAL ENGINEER	DATE	INITIALS		DATE	INITIALS		DATE	INITIALS		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH</p> <p>DUKE ENERGY Piedmont Natural Gas</p> <p>COPYRIGHT 2020</p>	<p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE 10/06/2020 SUPERSEDED</p> <p>DRAWING NUMBER</p> <p>PNG -C-367-0002051</p> <p>REVISION C</p> <p>CNELLOGG/C367</p>
REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION																																														
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE																																														
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982																																														
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER AW1982																																														
DRAWING BY SFS			STATION ID																																																
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APPROVALS		REGIONAL ENGINEER																																																	
DATE	INITIALS																																																		
DATE	INITIALS																																																		
DATE	INITIALS																																																		

REF. DWG. NO.	OWNERSHIP	BB 1263.00	BB 1264.00	BB 1266.00	BB 1267.00	BB 1268.00
	JURISDICTION	RACHEL ANNE & BRIAN DANIEL MUNGAN MONROE TOWNSHIP	GREGORY A & SANDRA L BOONE MONROE TOWNSHIP	ALEXANDER ROBERT & SAMANTHA KAYLEIGH TINCHER MONROE TOWNSHIP	JENNIFER L & JOHN T SCHMIDT MONROE TOWNSHIP	JANICE LEE HERZOG MONROE TOWNSHIP
	ACREAGE					
	EASEMENTS					

STATIONING



BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).

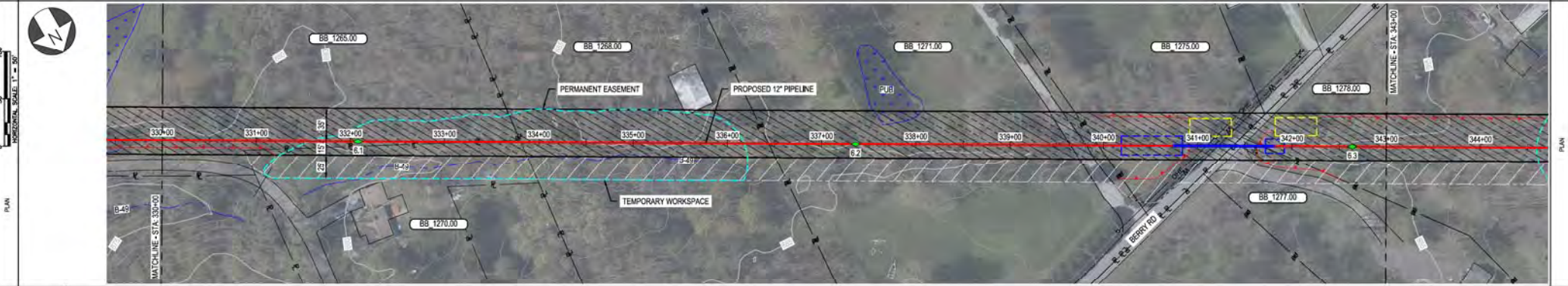
REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/06/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002052 C <small>CNSKELLOGG007</small>	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020
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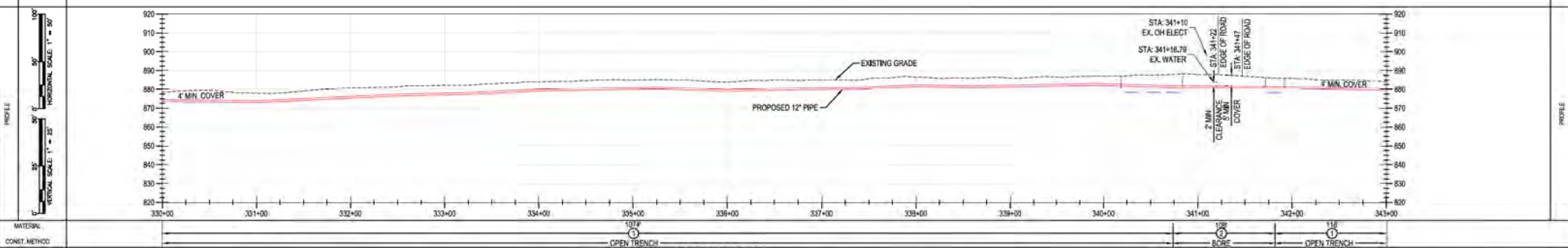
REV	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS ACCOUNT NUMBER	AW1982	-	GRG TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

OWNERSHIP	BB 1265.00	BB 1268.00	BB 1271.00	BB 1275.00	BB 1277.00	BB 1278.00
JURISDICTION	JANICE LEE HERZOG MONROE TOWNSHIP	SHENANDOAH WHALEN MONROE TOWNSHIP	SHENANDOAH WHALEN MONROE TOWNSHIP	SHENANDOAH WHALEN MONROE TOWNSHIP	JACK CONNERS JR MONROE TOWNSHIP	DANIEL LEE BALOG MONROE TOWNSHIP
ACREAGE						
EASEMENTS						
REF. DWG. NO.						

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

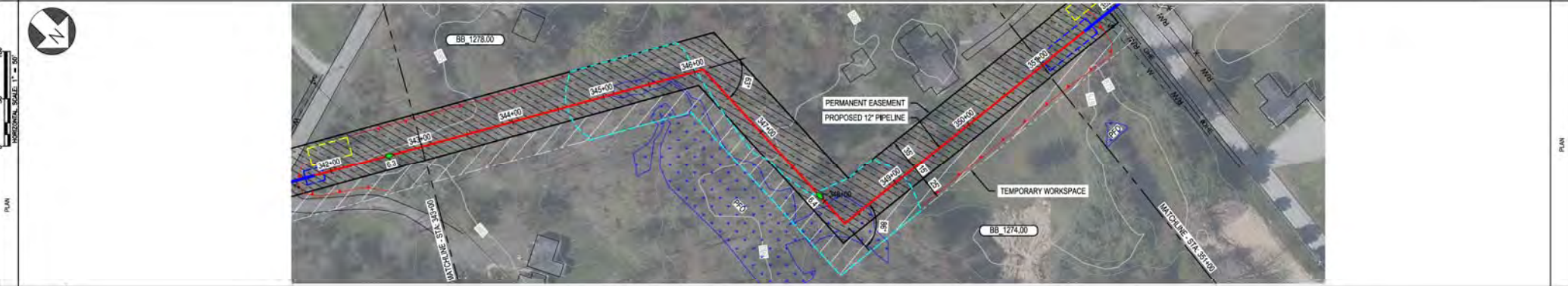
BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY DATE (APP) DESCRIPTION SFS JMP CNS AREA CODE SFS JMP CNS ACCOUNT NUMBER AW1982 SFS JMP CNS PROJECT NUMBER AW1982		APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER		REF. DWG(S) SEE REFERENCE BAND SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/12/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002053 REVISION C CHK:KELLOGG/CML	
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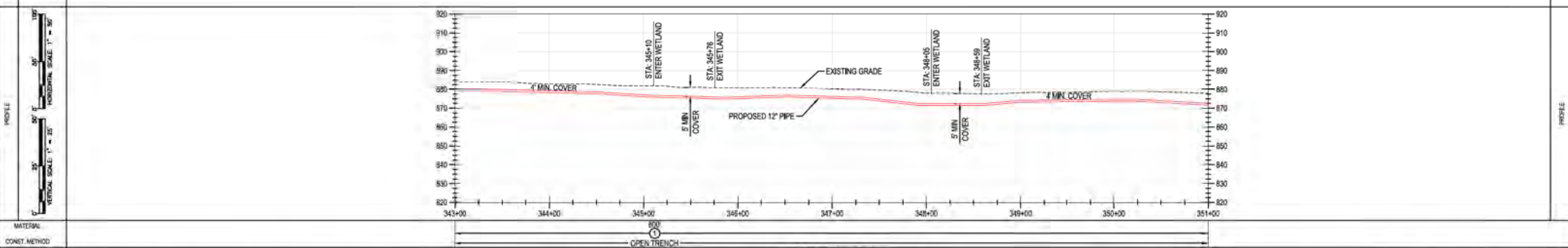
C367 PIPELINE ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

RHD/OF-WAY	OWNERSHIP	BB 1278.00	BB 1274.00
	JURISDICTION	DANIEL LEE BALOG MONROE TOWNSHIP	CLER CHRISTIAN ASSEMBLY INC MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COIN	WELL #	COIN
	STA	WELL #	COIN	WELL #	COIN

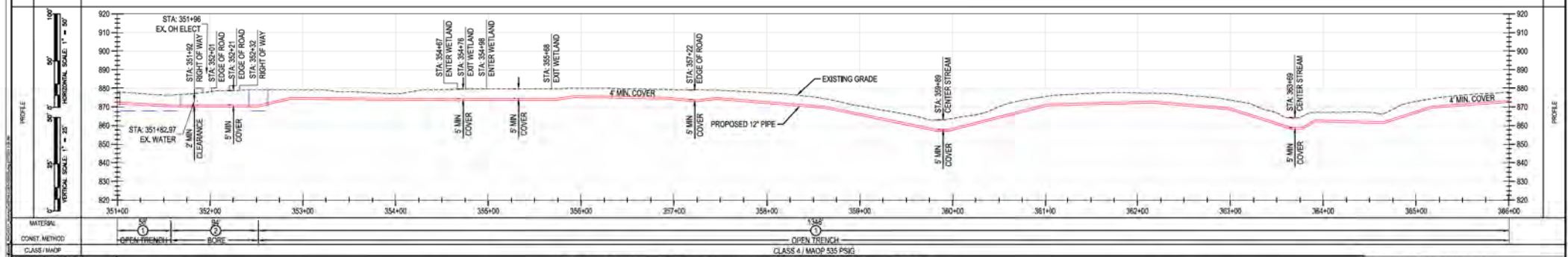
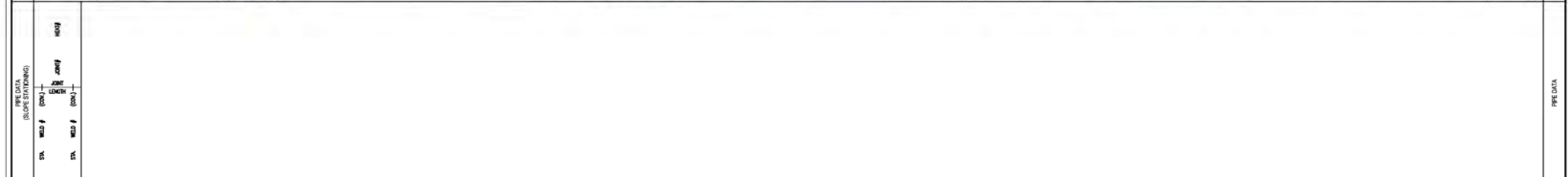
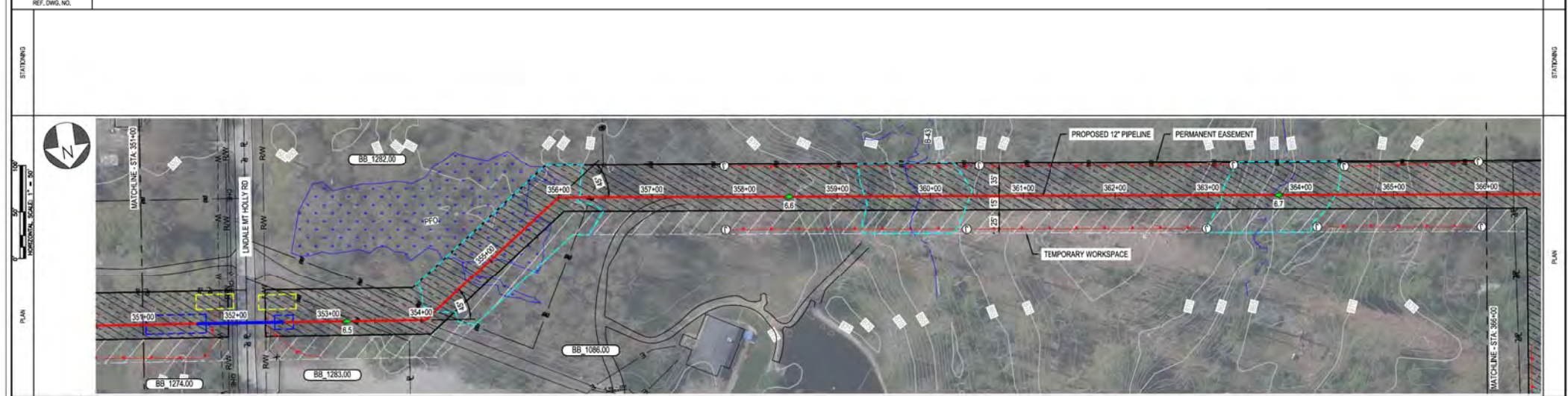


MATERIAL: CLASS / MAOP 2325 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		REF. DWG(S) SEE REFERENCE BAND																																																															
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REV	DATE	REVISION/DESCRIPTION																																																															
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CHECKER INITIALS		JMP																																																															
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MGR TECH REC & STD	DATE	INITIALS																																																															
PRINCIPAL ENGINEER	DATE	INITIALS																																																															
<p>DUKE ENERGY</p> <p>Piedmont Natural Gas</p> <p>Copyright 2020</p>		<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO</p> <p>KELLOGG, OH</p>																																																															
<p>PROFESSIONAL ENGINEER/STAMP</p>		<p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE 10/12/2020 SUPERSEDED</p> <p>DRAWING NUMBER PNG -C-367-0002054 REVISION C</p> <p>CNKL00000007</p>																																																															

RIGHT-OF-WAY	OWNERSHIP	BB 1274.00	RW	BB 1283.00	BB 1096.00	BB 1282.00	BB 1096.00	RIGHT-OF-WAY
	JURISDICTION	CLER CHRISTIAN ASSEMBLY INC MONROE TOWNSHIP	MONROE TOWNSHIP	DONNA K BAKER MONROE TOWNSHIP	DONNA K BAKER MONROE TOWNSHIP	GARY & LINDA HENSGEN MONROE TOWNSHIP	DONNA K BAKER MONROE TOWNSHIP	
	EASEMENTS							
REF. DWG. NO.								



BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 01597

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REF. DWG(S) SEE REFERENCE BAND

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A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS AREA CODE	-	-
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS ACCOUNT NUMBER	AW1982	-
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS PROJECT NUMBER	AW1982	-

DRAWING BY: SFS
STATION ID: _____
CHECKER INITIALS: JMP

APPROVALS:

REGIONAL ENGINEER	DATE	INITIALS
MGR TECH REC & STD	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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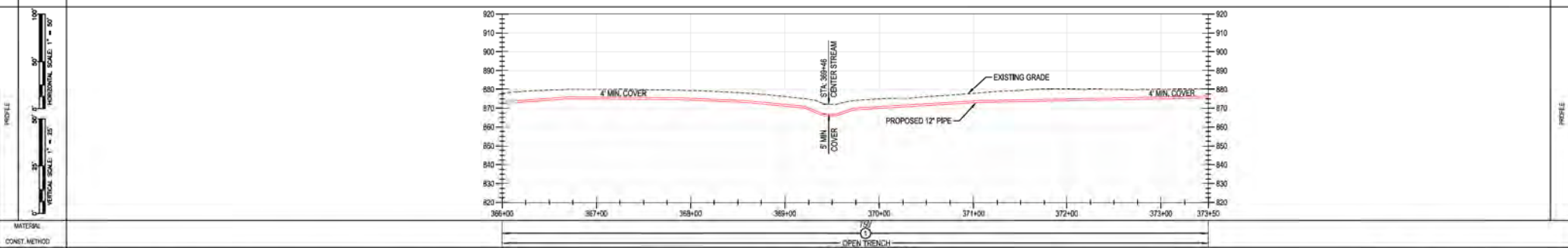
SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/13/2020 | SUPERSEDED
DRAWING NUMBER PNG -C-367-0002055 | REVISION C
CNS/KELLOGG/C367

RIGHT-OF-WAY	OWNERSHIP	BB 1088.00	BB 1088.00
	JURISDICTION	DOANNA K BAKER MONROE TOWNSHIP	TIMOTHY & DEBRA HANCOCK MONROE TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 515 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS
DRAWING BY: SFS			REGIONAL ENGINEER:		
STATION ID:			MGR TECH REC & STD:		
CHECKER INITIALS: JMP			PRINCIPAL ENGINEER:		



**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	10/13/2020	SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG -C-367-0002056		C	
CKELLOGG/CW7			

PROFESSIONAL ENGINEER STAMP

COPYRIGHT 2020

RIGHT-OF-WAY	OWNERSHIP	BB 1088.00	BB 1090.00	BB 1091.00	BB 1285.00
	JURISDICTION	TIMOTHY & DEBRA HANCOCK MONROE TOWNSHIP	REBECCA ANDERSON MONROE TOWNSHIP	STEVEN D & CONNIE WILFERT MONROE TOWNSHIP	SUSAN K POPE MONROE TOWNSHIP
	ADJACENT				
	EASEMENTS			50' INGRESS / EGRESS	
REF. DWG. NO.					

STATIONING



MATERIAL	OPEN TRENCH
CONST. METHOD	CLASS 4 / MSCP 535 PSIG
CLASS / MSCP	

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 01557

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*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS:AREA CODE	-	-
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS:ACCOUNT NUMBER	AW1982	-
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS:PROJECT NUMBER	AW1982	-

DRAWING BY	SFS	REGIONAL FACILITATOR	
STATION ID		MGR TECH REC & STD	
CHECKER INITIALS	JMP	PRINCIPAL ENGINEER	

DUKE ENERGY | Piedmont Natural Gas

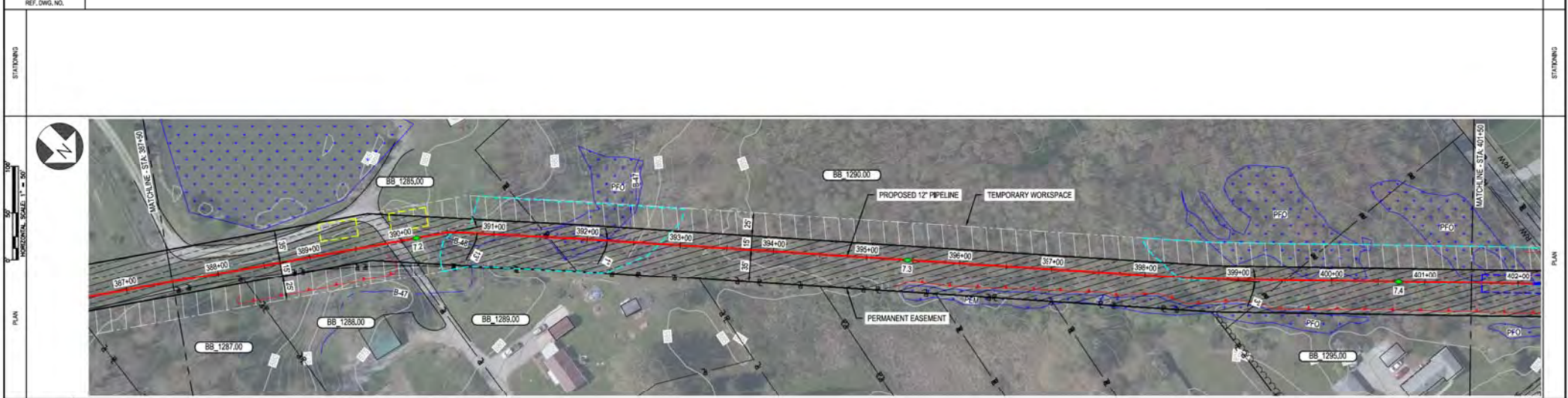
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

COPYRIGHT 2020

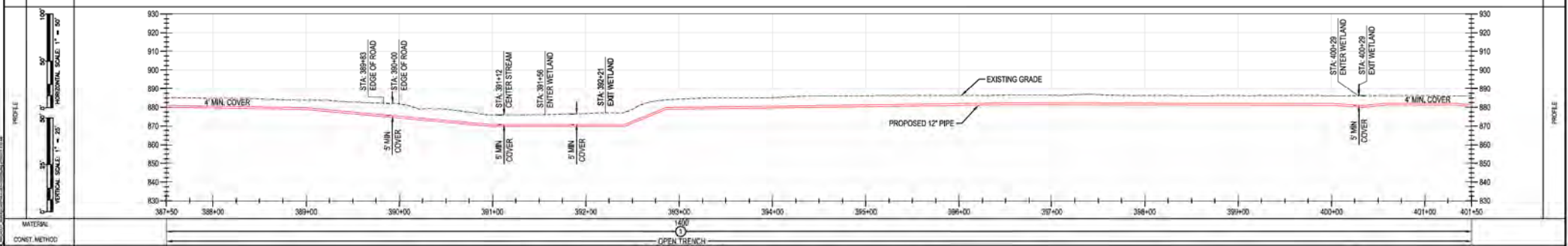
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DWG SCALE	AS NOTED
DWG DATE	10/13/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002057
REVISION	C

CNSKLL000G007

R/O/C-ROAD	OWNERSHIP	BB 1285.00	BB 1290.00	BB 1295.00
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	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA	WELL #	DEPTH	WELL #	DEPTH
	STA	WELL #	DEPTH	STA	WELL #



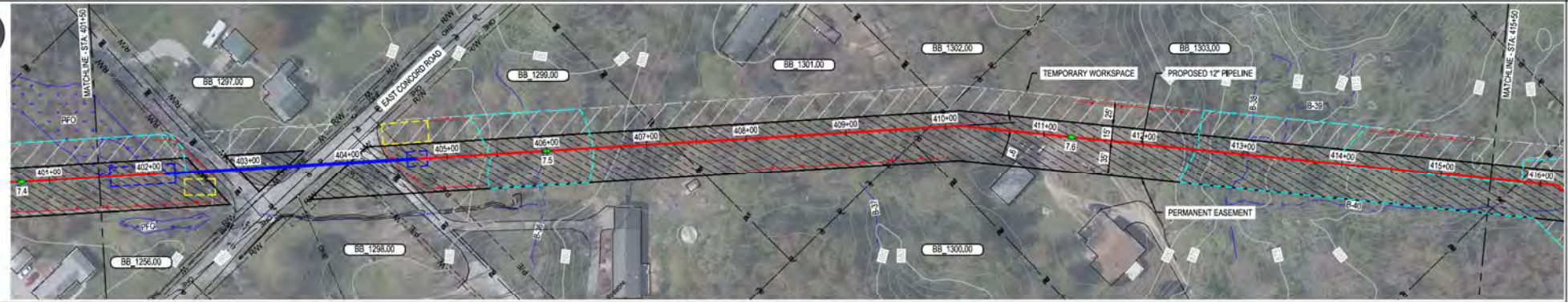
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 CONST. METHOD:
 CLASS / MAQP:
 OPEN TRENCH
 CLASS 4 / MAQP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557
 "PROPRIETARY & CONFIDENTIAL" ALL RIGHTS RESERVED "DO NOT SCALE THIS DRAWING" "USE DIMENSIONS ONLY"
 DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL "DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE" "TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)"
 REF. DWG(S) SEE REFERENCE BAND

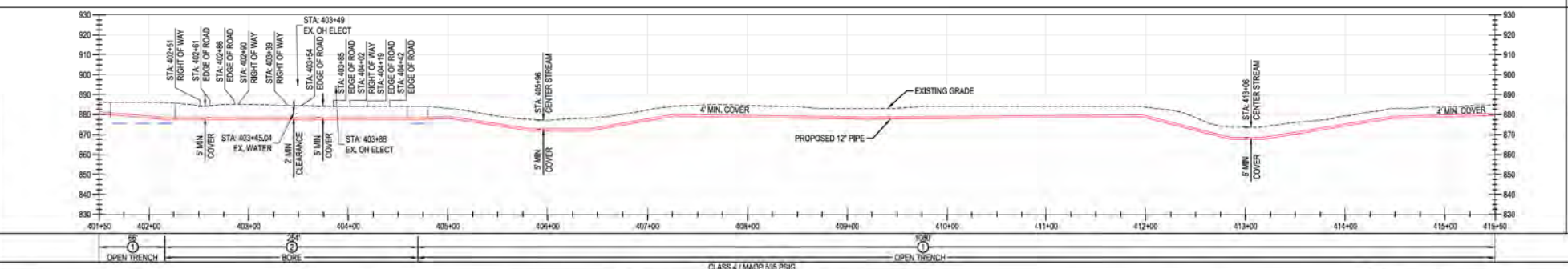
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RIGHT-OF-WAY	OWNERSHIP	BB 1295.00	R/W	BB 1297.00	R/W	BB 1298.00	BB 1299.00	BB 1301.00	BB 1303.00	RIGHT-OF-WAY
	JURISDICTION	DANIEL E & M A SHEPPARD	MONROE TOWNSHIP	JOSEPH & SCHOTT KERRY MUDDIAMAN	MONROE TOWNSHIP	MELANIE FLETCHER	TYLER M & VALERO JENNIFER DALTON	MICHAEL E & LAURA A PLANCK	JOANN L CLAUDILL	
	ADJACENT									
	EASEMENTS									
REF. DWG. NO.										

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.	WELL #	COND.		
	STA.	WELL #	COND.	STA.	WELL #	COND.	STA.	WELL #	COND.



MATERIAL: CLASS / MAOR 535 P61G

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567		DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).				REF. DWG(S) SEE REFERENCE BAND	
INCL. DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	REVISIONS / DESCRIPTION	BY DATE (APP)	DESCRIPTION	DATE INITIALS	APPROVALS	REGIONAL ENGINEER	SHEET(S) 1 OF X DWG SCALE AS NOTED
		SFS JMP CNS AREA CODE	ACCOUNT NUMBER AW1982	DATE INITIALS	REGIONAL ENGINEER	DWG DATE 10/13/2020 SUPERSEDED	DRAWING NUMBER
		SFS JMP CNS PROJECT NUMBER	SFS	DATE INITIALS	MGR TECH REC & STD	DRAWING NUMBER	REVISION
		DRAWING BY	SFS	DATE INITIALS	PRINCIPAL ENGINEER	DRAWING NUMBER	REVISION
		STATION ID	JMP	DATE INITIALS	PRINCIPAL ENGINEER	DRAWING NUMBER	REVISION
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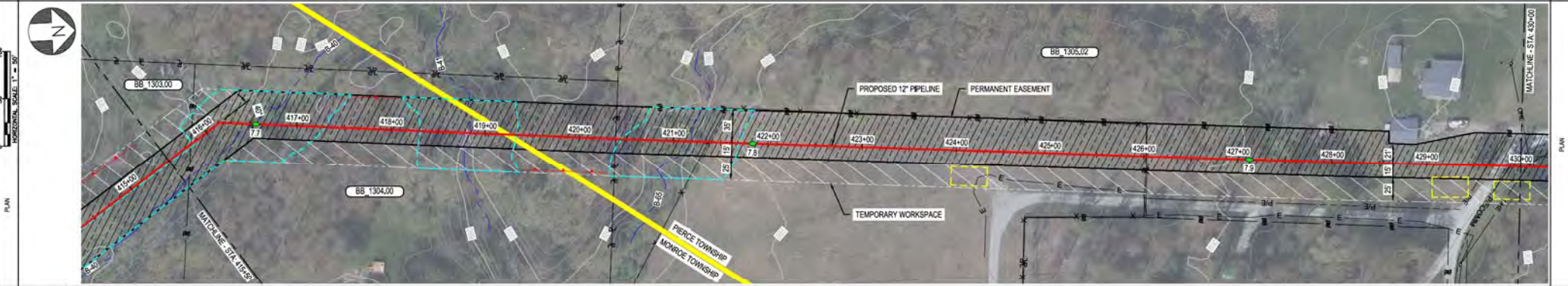
C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
 KELLOGG, OH

DRAWING NUMBER
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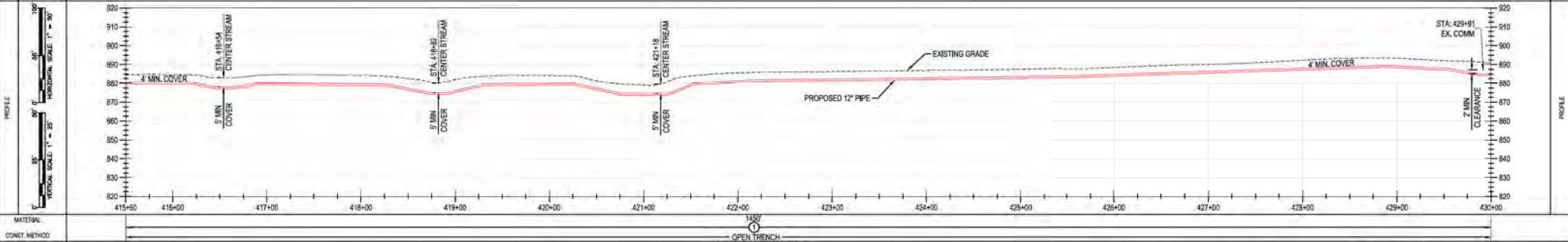
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RIGHT-OF-WAY	OWNERSHIP	BB 1303.00	BB 1304.00	BB 1305.02
	JURISDICTION	JOANN L CAUDILL MONROE TOWNSHIP	EVERETT D BISHEA MONROE TOWNSHIP	AMMERMAN INVESTMENTS LLC PIERCE TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		<p>REF. DWG(S) SEE REFERENCE BAND</p>
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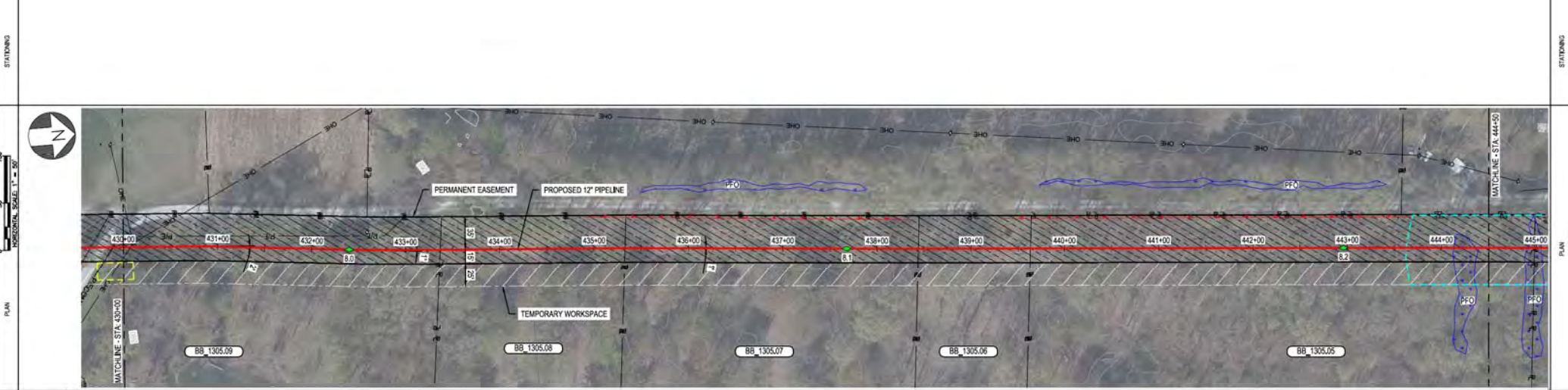
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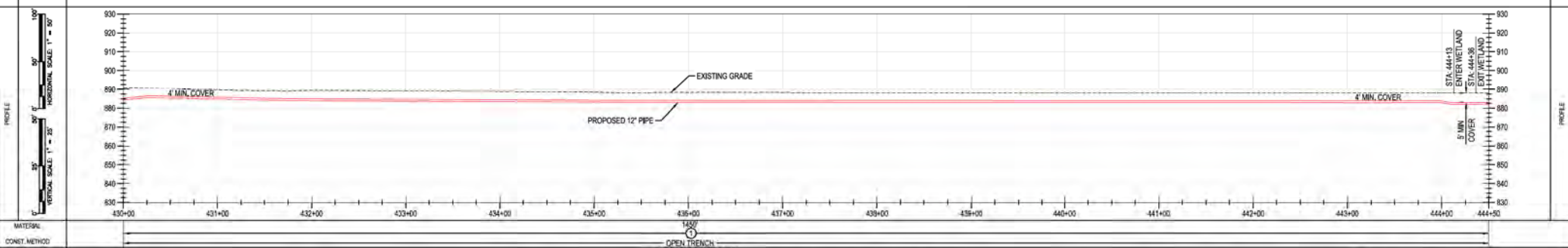
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ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH
COPYRIGHT 2020

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 10/13/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002060	C
CNKLK00000000	

OWNERSHIP	BB 1305.09	BB 1305.08	BB 1305.07	BB 1305.06	BB 1305.05
JURISDICTION	THOMAS S QUINLAN PIERCE TOWNSHIP	JERRY & DEBRA MADLENER PIERCE TOWNSHIP	ROBERT W & DEBORAH A VINSON PIERCE TOWNSHIP	JERRY & DEBRA MADLENER PIERCE TOWNSHIP	EDWARD J ERRAS & DEBORAH BROMAN RIOS PIERCE TOWNSHIP
ACREAGE					
EASEMENTS					
REF. DWG. NO.					



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
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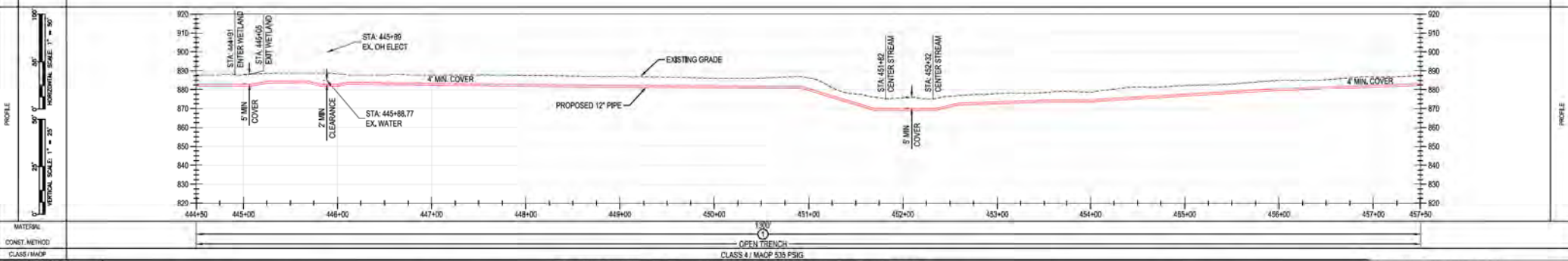
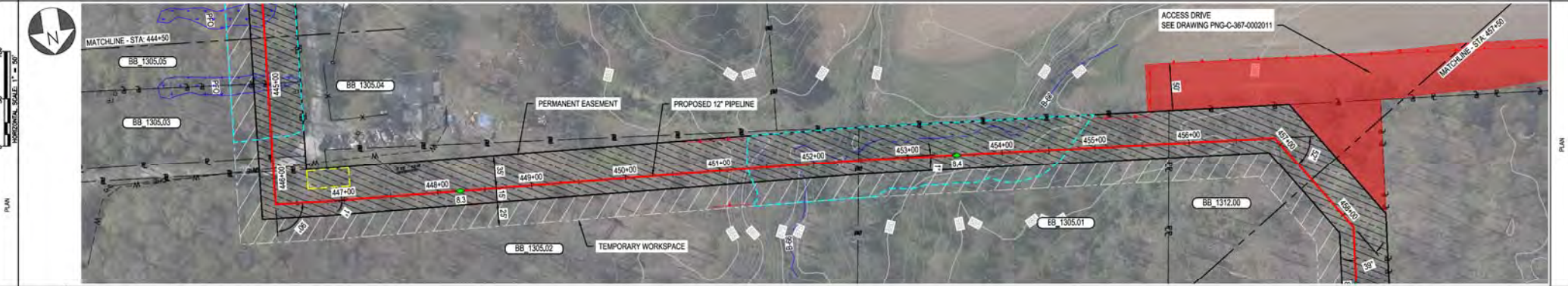
MATERIAL: OPEN TRENCH
CONST. METHOD: CLASS 4 | MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).
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REVISION	C																																																									

OWNERSHIP	BB 1305.05 & 1305.03	BB 1305.04	BB 1305.02	BB 1305.01	BB 1312.00
JURISDICTION	EDWARD J ERRAS & DEBORAH BRODMAN RIOS PIERCE TOWNSHIP	KENNETH FILE JR PIERCE TOWNSHIP	AMMERMAN INVESTMENTS LLC PIERCE TOWNSHIP	RDL PROPERTIES LLC PIERCE TOWNSHIP	EDGAR JR LAWSON PIERCE TOWNSHIP
ACREAGE					
EASEMENTS					
REF. DWG. NO.					

STATIONING



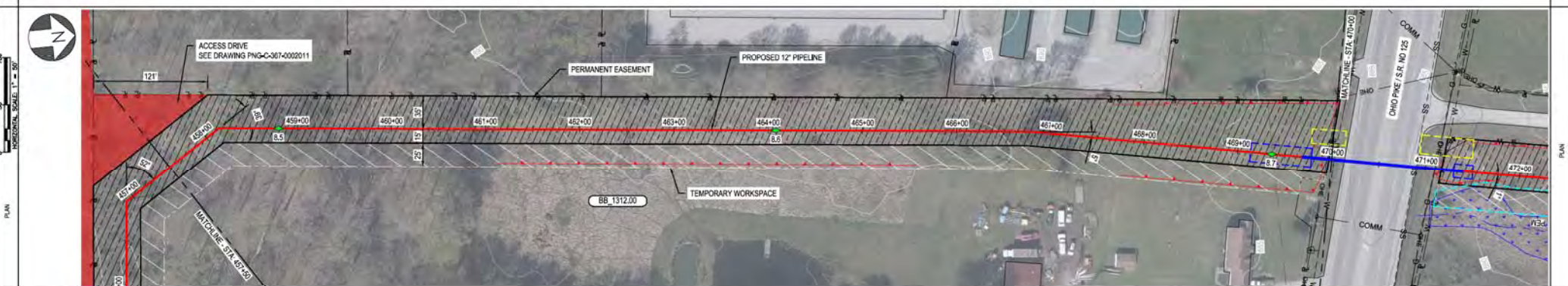
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BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567		*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)				REF. DWG(S) SEE REFERENCE BAND	
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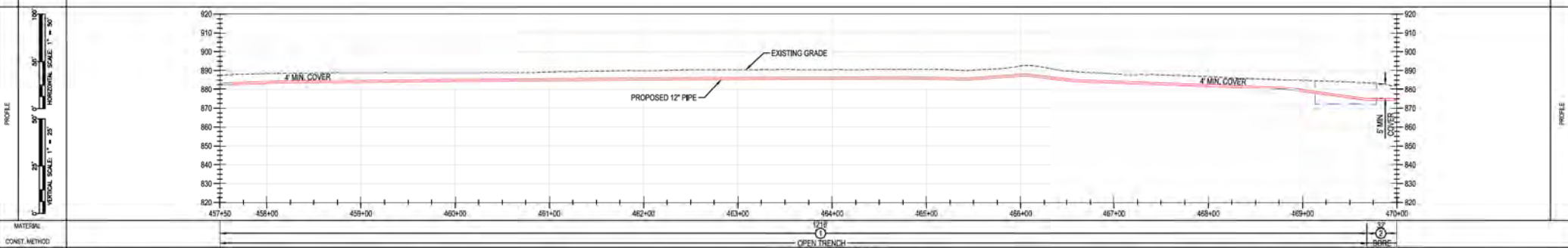
DUKE ENERGY, Piedmont Natural Gas, C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO, KELLOGG, OH

OWNERSHIP	BB 1312.00	R/W
JURISDICTION	EDGAR JR LAWSON	PIERCE TOWNSHIP
ADREAGE		
EASEMENTS		
REF. DWG. NO.		

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELL #	DEPTH	WELL #	DEPTH
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	460+00		8.6	462+00	8.6
	465+00		8.7	467+00	8.7



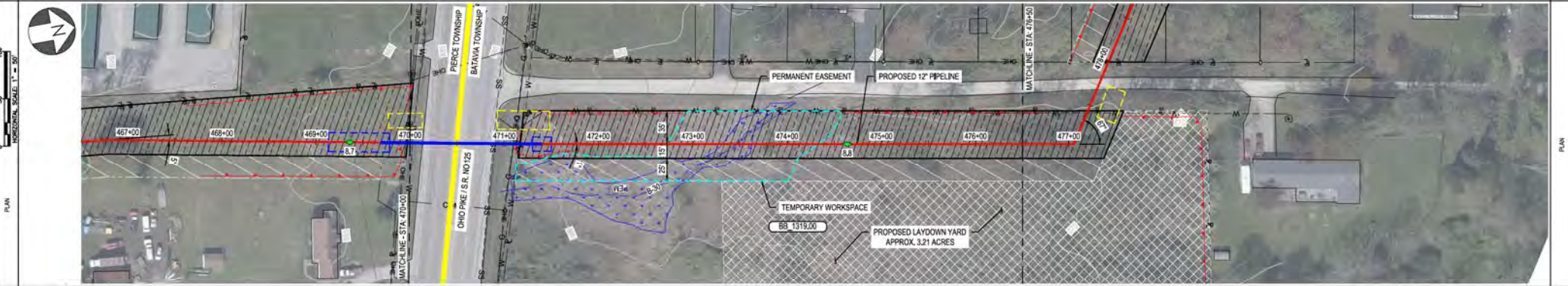
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BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

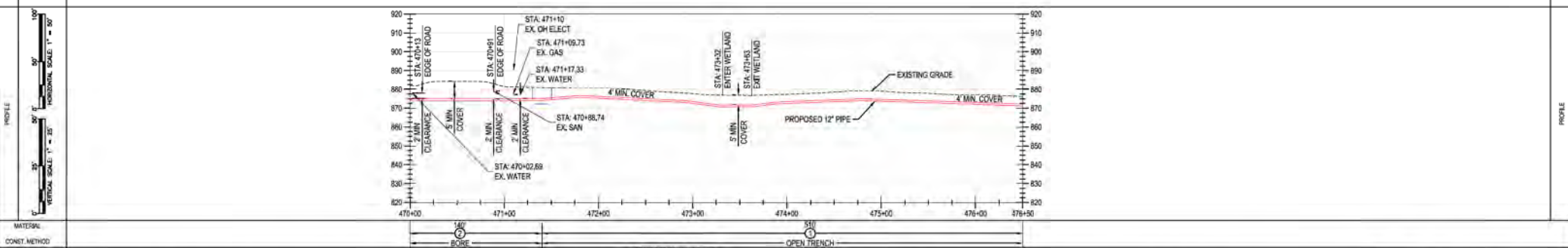
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			CHECKER INITIALS		JMP																																																							
APPROVALS	REGIONAL ENGINEER																																																											
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____																																																											
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____																																																											
DATE: _____ INITIALS: _____	DATE: _____ INITIALS: _____																																																											

R/W	OWNERSHIP	BB 1319.00
	JURISDICTION	KETAN PATEL
	ACREAGE	BATAVIA TOWNSHIP
	EASEMENTS	
REF. DWG. NO.		

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	DEPTH
	STA.	WELL #	DEPTH
	STA.	WELL #	DEPTH
	STA.	WELL #	DEPTH



MATERIAL: CONST. METHOD: CLASS / MAOP: CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).		REF. DWG(S) SEE REFERENCE BAND
MFL DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	REVISIONS BY CHK (APPV) DESCRIPTION SFS JMP CNS AREA CODE SFS JMP CNS ACCOUNT NUMBER AW1982 SFS JMP CNS PROJECT NUMBER AW1982 DRAWING BY SFS STATION ID CHECKER INITIALS JMP	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/14/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002064 REVISION C CNEKLOGG007

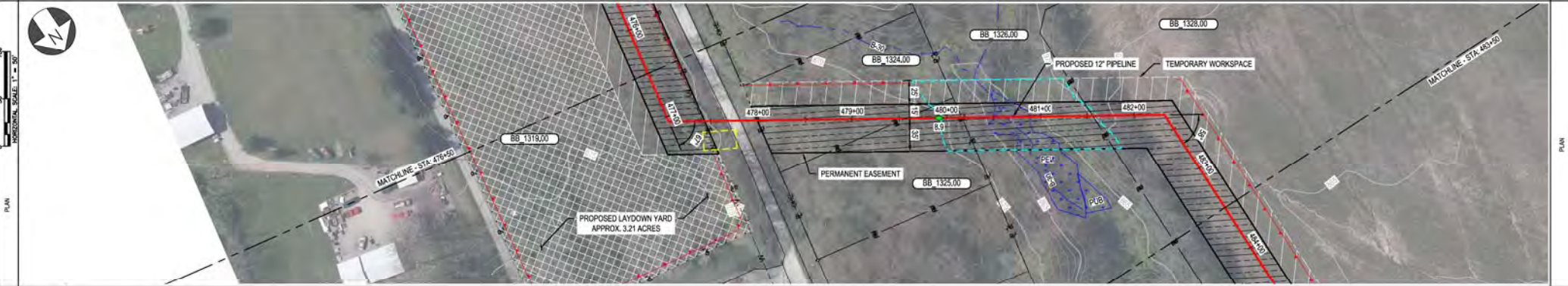
C367 PIPELINE ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

DUKE ENERGY
 Piedmont Natural Gas

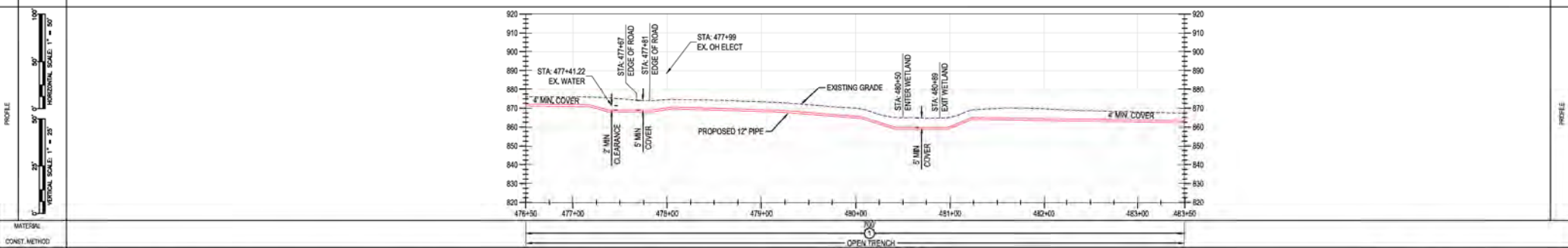
REGIONAL ENGINEER
 MGR TECH REC & STD
 PRINCIPAL ENGINEER

RIGHT-OF-WAY	OWNERSHIP	BB 1319.00	R/W	BB 1324.00	BB 1325.00	BB 1326.00	BB 1328.00
	JURISDICTION	KETAN PATEL	BATAVIA TOWNSHIP	ERIC J & TRACY C LUGINSBUHL	ERIC J & TRACY C LUGINSBUHL	HAROLD B & MYRNA CAMPBELL	LOCUST RIDGE LAND COMPANY LLC
	ACREAGE	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
	EASEMENTS						
REF. DWG. NO.							

STATIONING							
PLAN							
PROFILE							



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.
	STA.	WELL #	COORD.	WELL #	COORD.



MATERIAL: _____
 CONST. METHOD: _____
 CLASS / MAOP: _____

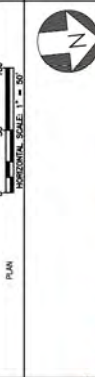
BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557
 DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).
 REF. DWG(S) SEE REFERENCE BAND

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISION/DESCRIPTION</th> <th>BY</th> <th>CHK (APPV)</th> <th>DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> <td>SFS</td> <td>JMP</td> <td>CNS/AREA CODE</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> <td>SFS</td> <td>JMP</td> <td>CNS/ACCOUNT NUMBER AW1982</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> <td>SFS</td> <td>JMP</td> <td>CNS/PROJECT NUMBER AW1982</td> </tr> <tr> <td colspan="3">DRAWING BY: SFS</td> <td colspan="3">STATION ID</td> </tr> <tr> <td colspan="3">CHECKER INITIALS: JMP</td> <td colspan="3">PRINCIPAL ENGINEER</td> </tr> </table>	REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE	B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982	C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER AW1982	DRAWING BY: SFS			STATION ID			CHECKER INITIALS: JMP			PRINCIPAL ENGINEER			<table border="1"> <tr> <th colspan="2">APPROVALS</th> </tr> <tr> <td>REGIONAL ENGINEER</td> <td>DATE</td> </tr> <tr> <td>MGR TECH REC & STD</td> <td>DATE</td> </tr> <tr> <td>PRINCIPAL ENGINEER</td> <td>DATE</td> </tr> </table>	APPROVALS		REGIONAL ENGINEER	DATE	MGR TECH REC & STD	DATE	PRINCIPAL ENGINEER	DATE	<p>C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020</p>	<table border="1"> <tr> <td>SHEET(S) 1 OF X</td> <td>DWG SCALE AS NOTED</td> </tr> <tr> <td>DWG DATE 10/14/2020</td> <td>SUPERSEDED</td> </tr> <tr> <td>DRAWING NUMBER</td> <td>REVISION</td> </tr> <tr> <td>PNG -C-367-0002065</td> <td>C</td> </tr> <tr> <td>CNELLOGG/C367</td> <td></td> </tr> </table>	SHEET(S) 1 OF X	DWG SCALE AS NOTED	DWG DATE 10/14/2020	SUPERSEDED	DRAWING NUMBER	REVISION	PNG -C-367-0002065	C	CNELLOGG/C367	
REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION																																																				
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B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982																																																				
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PNG -C-367-0002065	C																																																								
CNELLOGG/C367																																																									

BB-1328.00
 LOCUST RIDGE LAND COMPANY LLC
 BATAVIA TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

STATIONING



PIPE DATA
 (SLOPE STATIONING)

STA	WELL #	COND	WELL #	COND
483+50				
484+00				
485+00				
486+00				
487+00				
488+00				
489+00				
490+00				
491+00				
492+00				
493+00				
494+00				
495+00				
496+00				
497+00				



MATERIAL
 CONST. METHOD
 CLASS / MAOP

BURNS & MCCONNELL
 ENGINEERING COMPANY, INC.
 STATE LICENSE # COA, 01557

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REV	DATE	REVISION/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
SFS	JMP	CNS	AREA CODE	-	-
SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-
SFS	JMP	CNS	PROJECT NUMBER	AW1982	-
			DRAWING BY	SFS	-
			STATION ID		-
			CHECKER INITIALS	JMP	-

REGIONAL PROJECTED	DATE	INITIALS

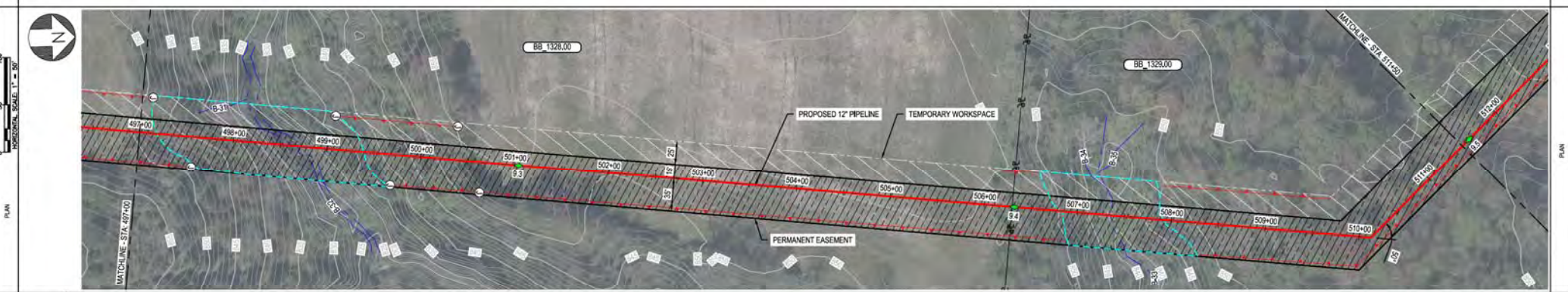
**C367 PIPELINE
 ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO**

KELLOGG, OH
 COPYRIGHT 2020

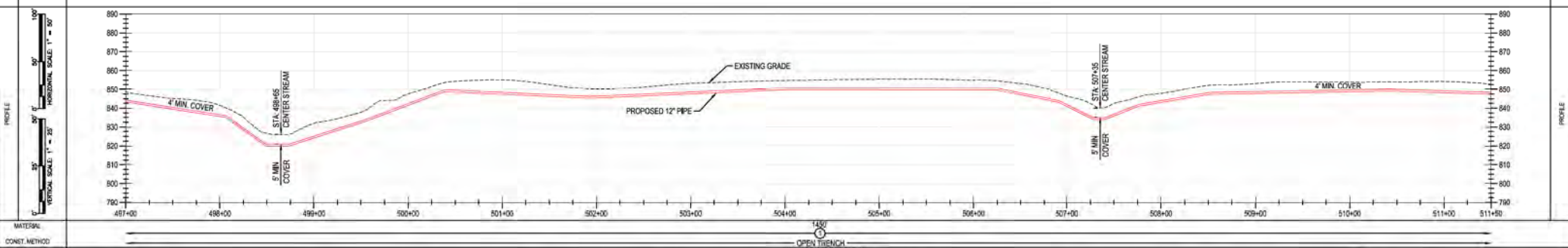
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SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/14/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002066
REVISION	C

RIGHT-OF-WAY	OWNERSHIP	BB 1328.00	BB 1329.00
	JURISDICTION	LOCUST RIDGE LAND COMPANY LLC BATAVIA TOWNSHIP	WEST CLERMONT BO OF EDUCATION BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #
	STA.	WELL #	COND.	STA.	WELL #
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS
DRAWING BY: SFS			REGIONAL ENGINEER:		
STATION ID:			MGR TECH REC & STD:		
CHECKER INITIALS: JMP			PRINCIPAL ENGINEER:		



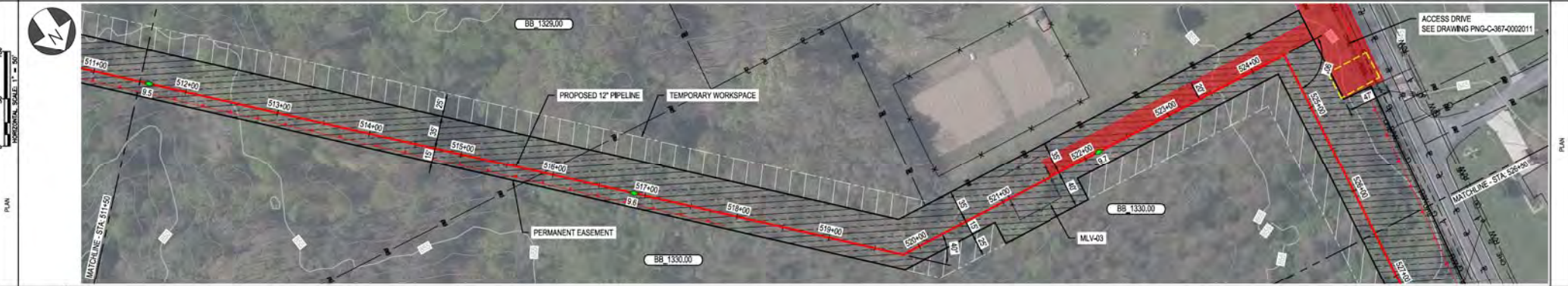
**C367 PIPELINE
ALIGNMENT SHEET
CLERMONT COUNTY, OHIO**
KELLOGG, OH

SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	10/14/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002067		
REVISION	C		

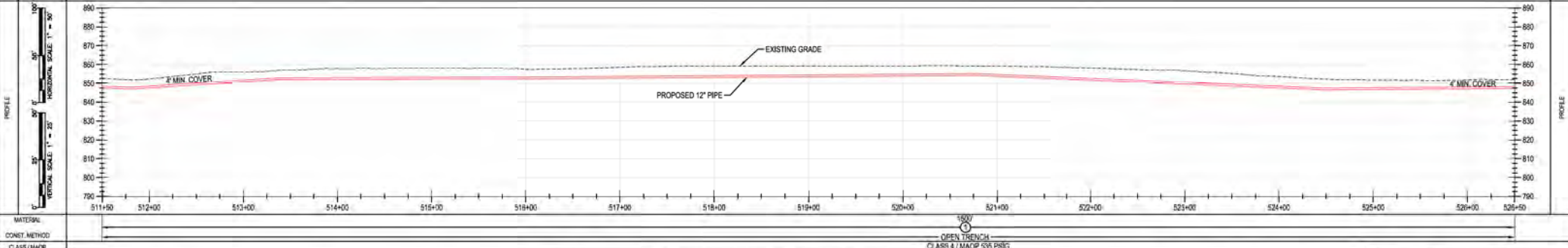
PROFESSIONAL ENGINEER STAMP

BEG OF WAY	OWNERSHIP	BB 1329.00	BB 1330.00
	JURISDICTION	WEST CLERMONT BD OF EDUCATION BATAVIA TOWNSHIP	R K DEVELOPMENT BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
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PIPE DATA (SLOPE STATIONING)	PIPE #	12	12
	WALL #	0000	0000
MATERIAL	STA	511+50	525+50
	STA	511+50	525+50



MATERIAL	OPEN TRENCH
CONST. METHOD	CLASS 4 / MAOP 535 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 01557

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/14/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002068

REVISION C

REV	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL ENGINEER
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B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-	-	-
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982	-	-	-
		DRAWING BY	SFS							
		STATION ID								
		CHECKER INITIALS	JMP							

DUKE ENERGY | Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO

KELLOGG, OH

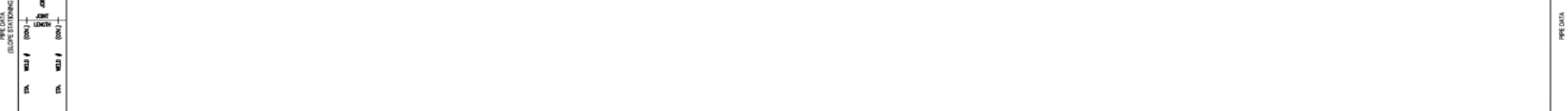
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R/O OF WAY	OWNERSHIP	BB 1330.00	BB 1332.00	BB 1333.00	R/O OF WAY
	JURISDICTION	R K DEVELOPMENT BATAVIA TOWNSHIP	STATE OF OHIO DEPT OF HIGHWAY BATAVIA TOWNSHIP	STATE OF OHIO BATAVIA TOWNSHIP	
	ACREAGE				
	EASEMENTS				
REF. DWG. NO.					

STATIONING



PLAN



PROFILE

MATERIAL	OPEN TRENCH
CONST. METHOD	CLASS 4 / MAOP 535 PSIG
CLASS / MAOP	

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

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REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION																																																							
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE																																																							
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982																																																							
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					DRAWING BY SFS																																																							
					STATION ID																																																							
					CHECKER INITIALS JMP																																																							
APPROVALS		REGIONAL ENGINEER																																																										
DATE	INITIALS																																																											
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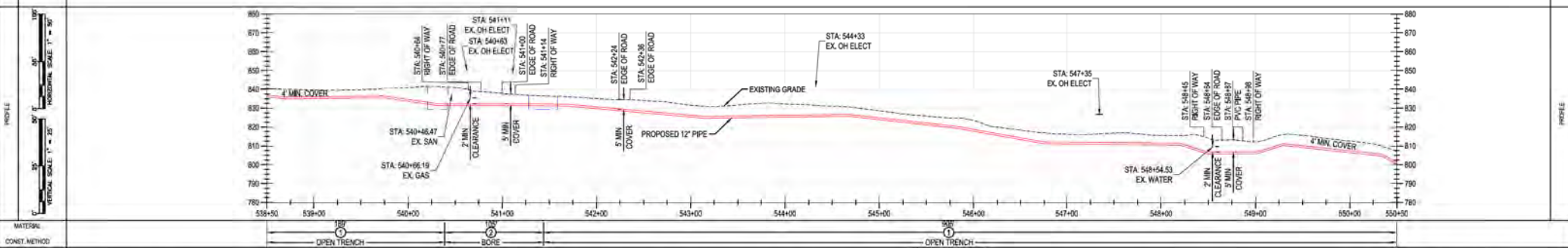
R/W OF WAY	OWNERSHIP	BB 1333.00	R/W	BB 1334.00	BB 1336.00	R/W	BB 1340.00
	JURISDICTION	STATE OF OHIO	BATAVIA TOWNSHIP	KEVIN ALEXANDER	BATAVIA TOWNSHIP	GREGORY R HEWITT	BATAVIA TOWNSHIP
	EASEMENTS	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
REF. DWG. NO.							

STATIONING



PIPE DATA (SLOPE STATIONING)

STA	WELL #	COND	WELL #	COND
STA	WELL #	COND	STA	WELL #



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 536 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

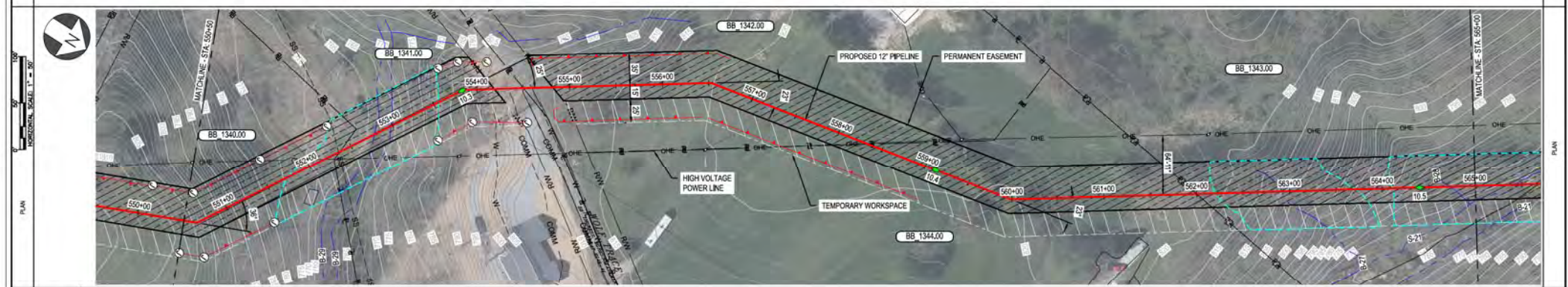
REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY DATE (APPRO) SFS JMP CNS AREA CODE SFS JMP CNS ACCOUNT NUMBER AW1982 SFS JMP CNS PROJECT NUMBER AW1982 DRAWING BY SFS STATION ID CHECKER INITIALS JMP		APPROVALS REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER		REF. DWG(S) SEE REFERENCE BAND SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/14/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002070 REVISION C	
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C367 PIPELINE ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020

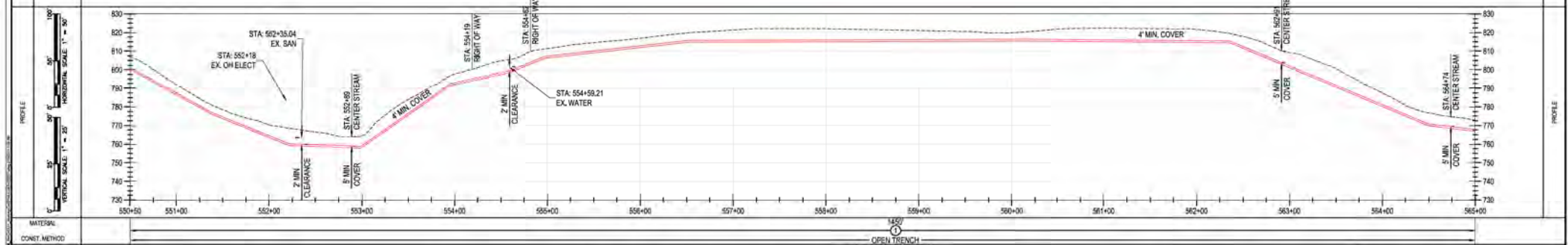
DUKE ENERGY
 Piedmont Natural Gas

RIGHT-OF-WAY	OWNERSHIP	BB 1340.00	BB 1341.00	R/W	BB 1342.00	BB 1344.00	BB 1343.00
	JURISDICTION	BRENDA COOK	DAVID ARTHUR & PAMELA KAY MORRIS	BATAVIA TOWNSHIP	RONALD F & EILEEN P BORD	JULIA M MOONEY	TRACY S DUNN
	EASEMENTS	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP		BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
REF. DWG. NO.							

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	WALL #	WALL #	WALL #	WALL #	WALL #	WALL #
	STA	STA	STA	STA	STA	STA	STA



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

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REV.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-	MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
		DRAWING BY	SFS						
		STATION ID							
		CHECKER INITIALS	JMP						

DUKE ENERGY, Piedmont Natural Gas

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/14/2020 SUPERSEDED

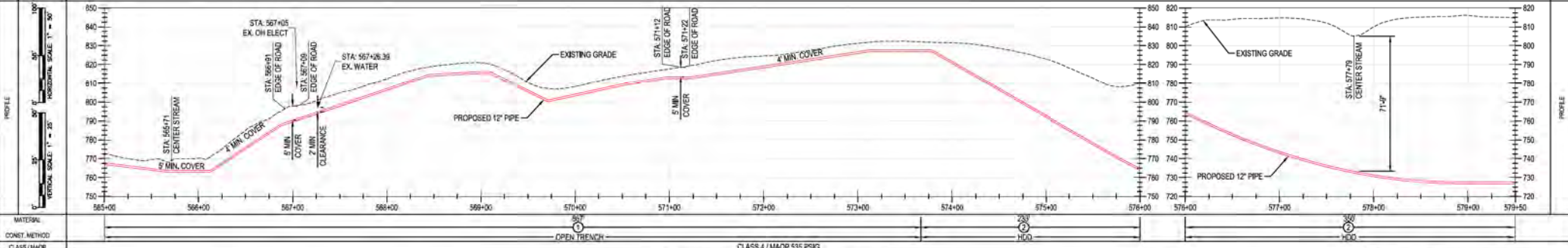
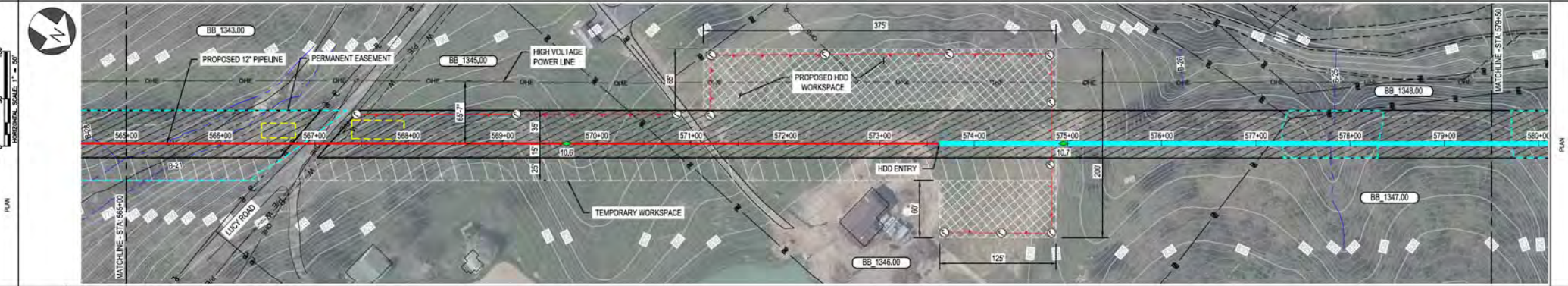
DRAWING NUMBER PNG -C-367-0002071 REVISION C

CNS/KELLOGG/C367

PROFESSIONAL ENGINEER/STAMP

RIGHT-OF-WAY	OWNERSHIP	BB 1343.00	R/W	BB 1345.00	BB 1346.00	BB 1347.00
	JURISDICTION	TRACY S DUNN BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	JOHN F & LINDA DARNELL BATAVIA TOWNSHIP	NICHOLAS R DARNELL BATAVIA TOWNSHIP	WOODBURY GLEN COMMUNITY ASSOCIATION INC BATAVIA TOWNSHIP
	ACREAGE					
	EASEMENTS					
REF. DWG. NO.						

STATIONING



BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01597

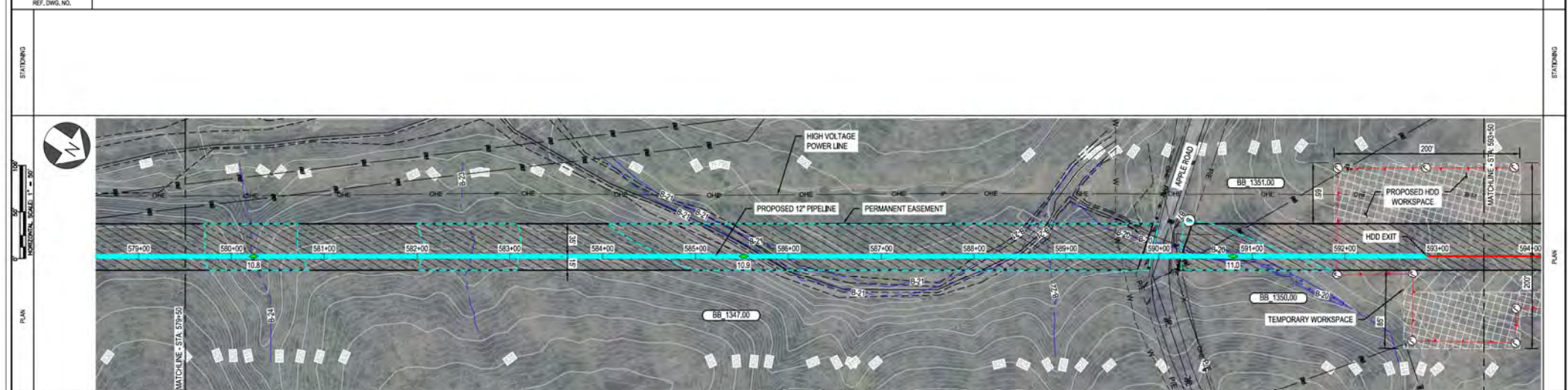
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REF. DWG(S) SEE REFERENCE BAND

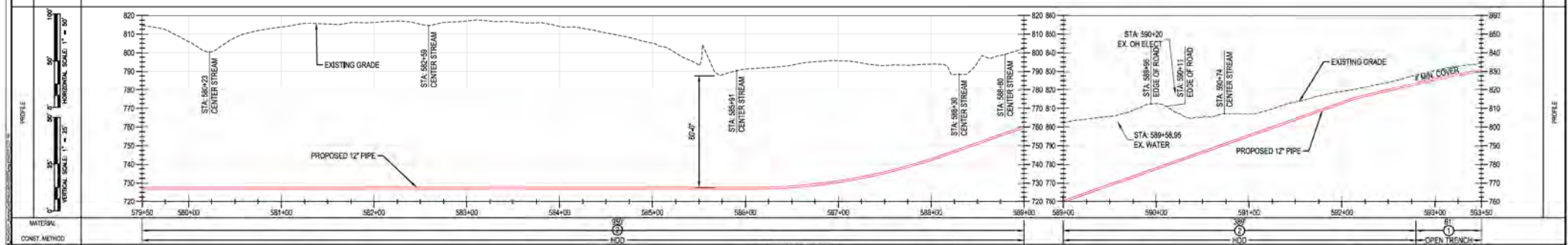
REV	DATE	REVISION/DESCRIPTION	BY	CHK	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	

REGIONAL FACILITATOR: [Signature] / MGR TECH REC & STD: [Signature] / PRINCIPAL ENGINEER: [Signature]
 SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 10/14/2020 SUPERSEDED
 DRAWING NUMBER: PNG -C-367-000272 REVISION: C
 CHECKLOGG/CW7

RIGHT-OF-WAY	OWNERSHIP	BB 1347.00	R/W	BB 1351.00	BB 1350.00
	JURISDICTION	WOODBURY GLEN COMMUNITY ASSOCIATION INC BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	BARBARA A ROY BATAVIA TOWNSHIP	KRISTINA M & JAMES S SANDERS BATAVIA TOWNSHIP
	ACREAGE				
	EASEMENTS				
	REF. DWG. NO.				



PIPE DATA (SLOPE STATIONING)	STA	WELL #	DEPTH
	STA	WELL #	DEPTH



MATERIAL: HDPE
CONST. METHOD: TRENCH
CLASS / MAOP: CLASS 4 / MAOP 635 PSIG

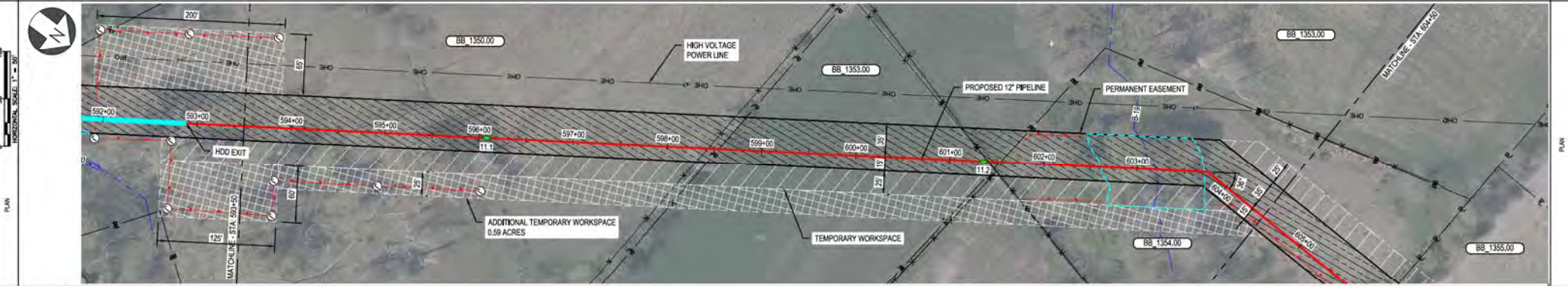
BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 00A, 01567
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).
REF. DWG(S) SEE REFERENCE BAND

REV. DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	BY CHK (APPV) SFS JMP CNS AREA CODE SFS JMP CNS PROJECT NUMBER SFS JMP CNS PROJECT NUMBER DRAWING BY SFS STATION ID CHECKER INITIALS JMP	DESCRIPTION AREA CODE AW1982 PROJECT NUMBER AW1982	APPROVALS REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER	DUKE ENERGY Piedmont Natural Gas COPYRIGHT 2020	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/14/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002073 REVISION C
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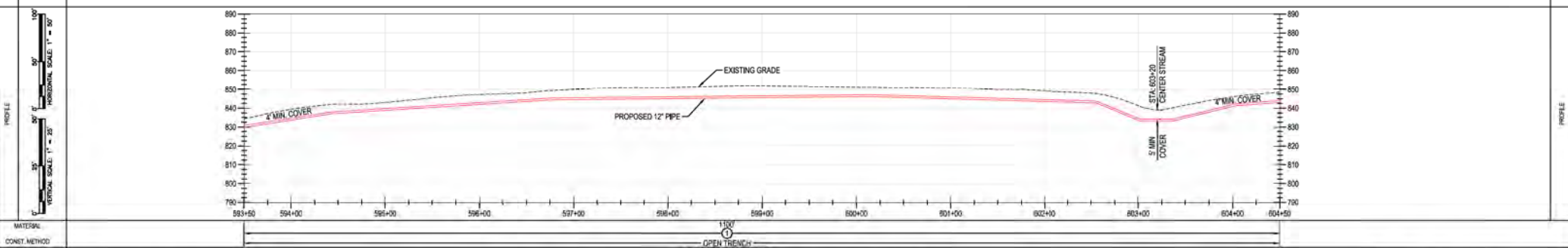
PROFESSIONAL ENGINEER'S STAMP

RIGHT-OF-WAY	OWNERSHIP	BB 1350.00	BB 1353.00	BB 1354.00
	JURISDICTION	KRISTINA M & JAMES S SANDERS BATAVIA TOWNSHIP	HERMAN & WICKIE BAILEY BATAVIA TOWNSHIP	JERRY JR & SARAH POTTER BATAVIA TOWNSHIP
	ACREAGE			
	EASEMENTS			
	REF. DWG. NO.			

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



MATERIAL: OPEN TRENCH CLASS 4 / MAOP 635 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

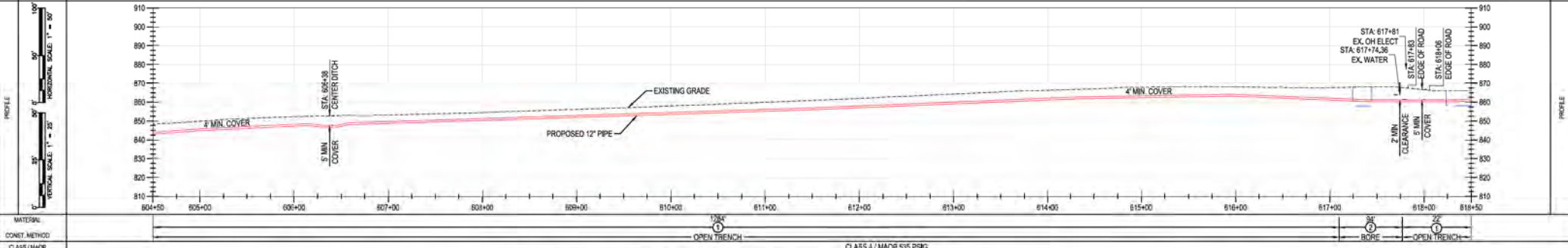
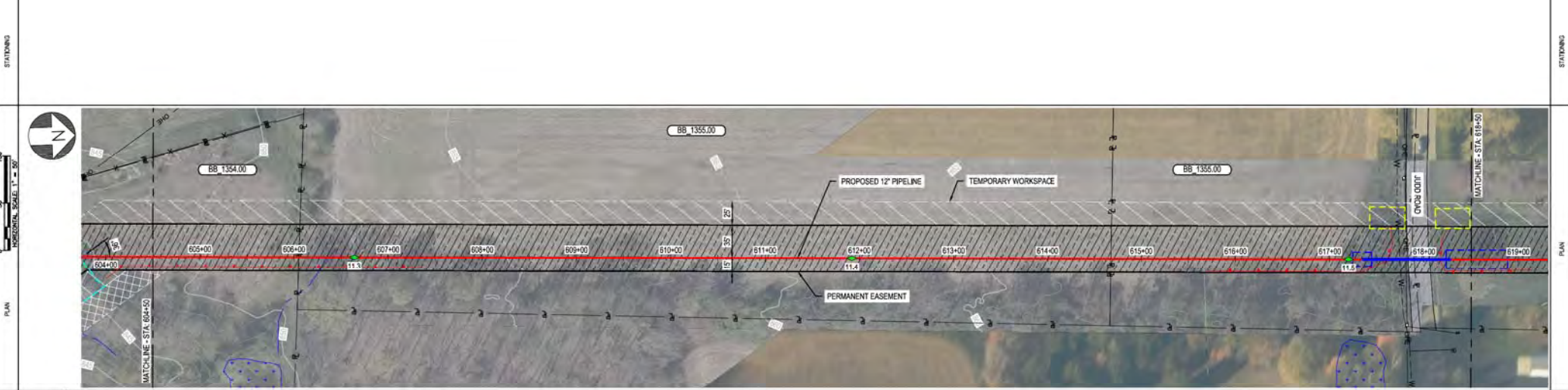
<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		REF. DWG(S)	SEE REFERENCE BAND
<p>NO. DATE REVISIONS/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSB</p>	<p>BY: SFS JMP CNS</p> <p>DATE: -</p> <p>INITIALS: -</p>	<p>REGIONAL ENGINEER</p> <p>MANAGER TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>	<p>SHEET(S) 1 OF X</p> <p>DWG SCALE AS NOTED</p> <p>DWG DATE 10/14/2020</p> <p>SUPERSEDED</p> <p>DRAWING NUMBER</p> <p>REVISION</p> <p>PNG -C-367-0002074</p> <p>C</p>

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO

KELLOGG, OH

PROFESSIONAL ENGINEER STAMP

OWNERSHIP	BB 1354.00	BB 1355.00
JURISDICTION	JERRY JR & SARAH POTTER BATAVIA TOWNSHIP	LAURA J NEEDLES ET AL BATAVIA TOWNSHIP
ADJACENT		
EASEMENTS		
REF. DWG. NO.		



BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

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REF. DWG(S) SEE REFERENCE BAND

REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	REVISE	APPROVALS	REGIONAL PROJECT MGR
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS:AREA CODE	-	-		
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS:ACCOUNT NUMBER	AW1982	-		
C	02-19-2021	60% DESIGN FOR OP&SB	SFS	JMP	CNS:PROJECT NUMBER	AW1982	-		

DRAWING BY: SFS
STATION ID: _____
CHECKER INITIALS: JMP

REGIONAL PROJECT MGR: HEC & STD
MGR TECH: HEC & STD
PRINCIPAL ENGINEER: _____
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DUKE ENERGY **Piedmont Natural Gas**

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

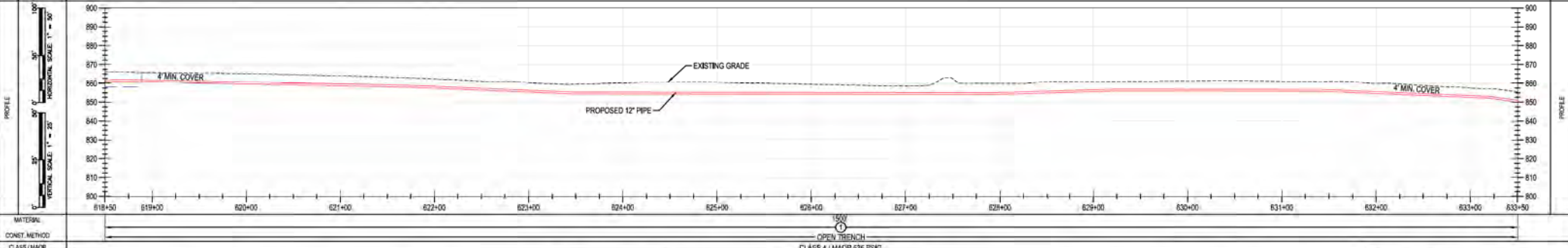
SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE 12/18/2020 SUPERSEDED
DRAWING NUMBER PNG -C-367-0002075 REVISION C
CNS:KELLOGG/C367

PROPERTY	OWNERSHIP	BB_1355.01	BB_1357.00
	JURISDICTION	GUIN L & ELLEN F PRENTICE BATAVIA TOWNSHIP	ROSEWOOD DEVELOPERS LLC BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING		
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PIPE DATA (SLOPE STATIONING)	PIPE #	6060	6060
	SIZE	12\"/>	

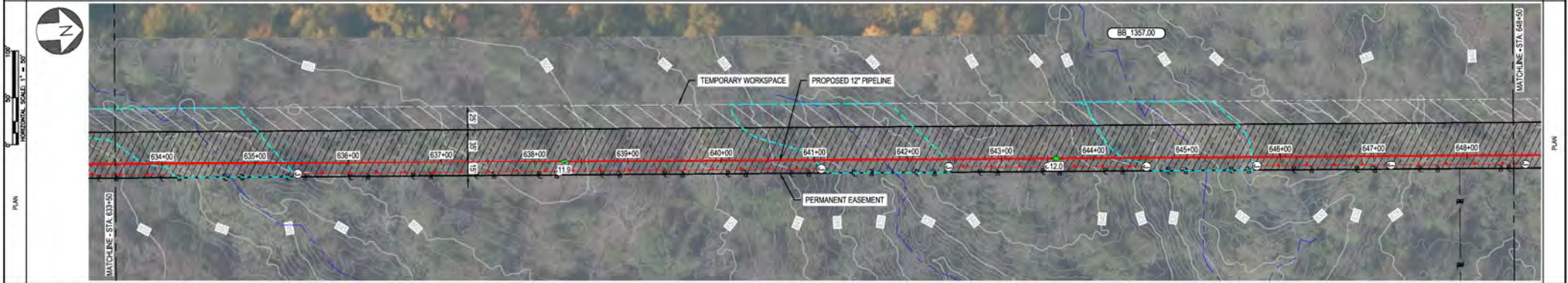


MATERIAL: OPEN TRENCH
CONSTR. METHOD: CLASS 4 / MAOP 536 PSIG

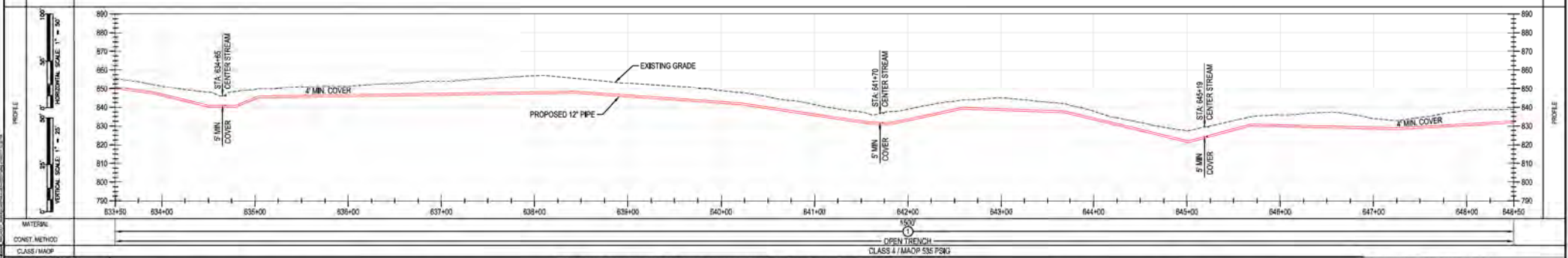
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557		DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).				REF. DWG(S) SEE REFERENCE BAND	
REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	BY: SFS CHK: JMP DATE:	AREA CODE: - PROJECT NUMBER: AW1982 DRAWING BY: SFS STATION ID: CHECKER INITIALS: JMP	APPROVALS REGIONAL MANAGER: [Signature] MGR TECH REC & STD: [Signature] PRINCIPAL ENGINEER: [Signature]	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 12/19/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002076 REVISION C	C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020		

PROPERTY	OWNERSHIP	BB_1357.00
	JURISDICTION	ROSEWOOD DEVELOPERS LLC BATAVIA TOWNSHIP
	ACREAGE	
	EASEMENTS	
REF. DWG. NO.		

STATIONING	
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PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	WELL #	COND



MATERIAL	12\"/>
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 536 PSIG

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REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	12/19/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002077
REVISION	C

C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

DUKE ENERGY **Piedmont Natural Gas**

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REV	DATE	DESCRIPTION	BY	CHK	APPV	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	AREA CODE
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER AW1982

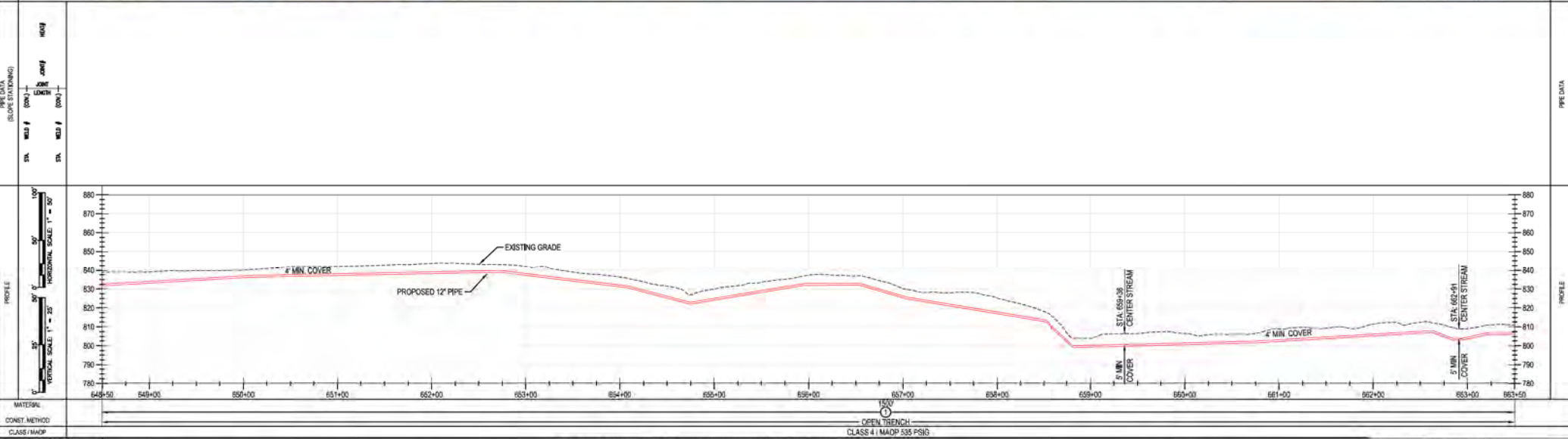
DRAWING BY	SFS
STATION ID	
CHECKER INITIALS	JMP

APPROVALS		REGIONAL MANAGER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	

MGR TECH REC & STD	
PRINCIPAL ENGINEER	

PROFESSIONAL ENGINEER STAMP	
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RIGHT-OF-WAY	OWNERSHIP	BB 1357.00	BB 1350.00
	JURISDICTION	ROSEWOOD DEVELOPERS LLC	BATAVIA TOWNSHIP BOARD OF TRUSTEES
	ACREAGE		
	EASEMENTS	BATAVIA TOWNSHIP	BATAVIA TOWNSHIP
REF. DWG. NO.			



BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567		*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)				REF. DWG(S) SEE REFERENCE BAND	
REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSS	BY DATE (APP) DESCRIPTION SFS JMP CNS AREA CODE SFS JMP CNS ACCOUNT NUMBER AW1982 SFS JMP CNS PROJECT NUMBER AW1982	DATE INITIALS DATE INITIALS DATE INITIALS	APPROVALS REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER	REGIONAL MANAGER MGR TECH REC & STD PRINCIPAL ENGINEER	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 12/15/2020 DRAWING NUMBER PNG -C-367-0002078 C	REVISION C	

PROFESSIONAL ENGINEER STAMP
 DUKE ENERGY
 Piedmont Natural Gas
 C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO
 KELLOGG, OH
 COPYRIGHT 2020
 C367-0002078

BB 1359.00
 BATAVA TOWNSHIP BOARD OF TRUSTEES
 BATAVA TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

STATIONING

PLAN

PIPE DATA
 (SLOPE STATIONING)

PROFILE

MATERIAL
 CONST. METHOD
 CLASS / MAOP

BURNS & MCCONNELL
 ENGINEERING COMPANY, INC.
 STATE LICENSE # COA, 01557

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REV.	DATE	REVISION/DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW
B	12-18-2020	REVISED 30% DESIGN
C	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APPV	DESCRIPTION	DATE	INITIALS
SFS	JMP	CNS	AREA CODE	-	-
SFS	JMP	CNS	ACCOUNT NUMBER	AW1982	-
SFS	JMP	CNS	PROJECT NUMBER	AW1982	-
			DRAWING BY	SFS	-
			STATION ID	-	-
			CHECKER INITIALS	JMP	-

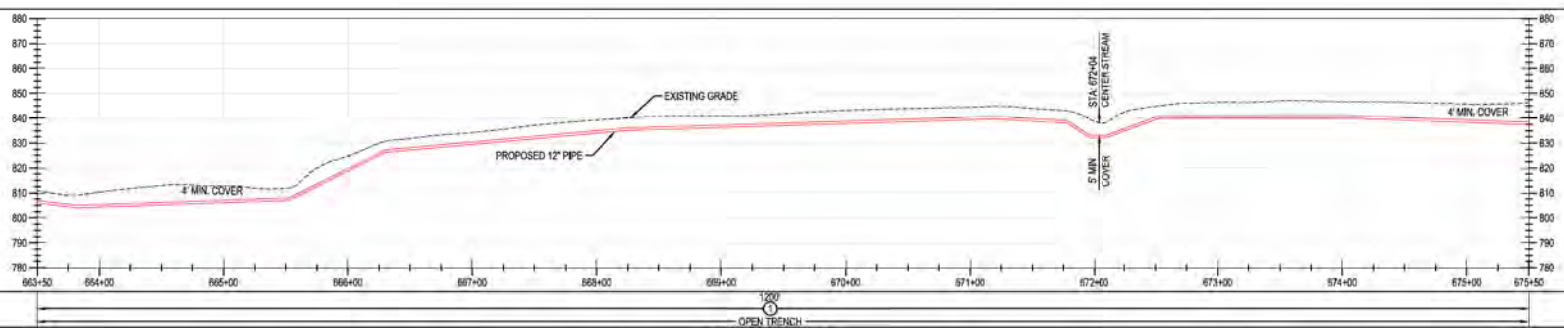
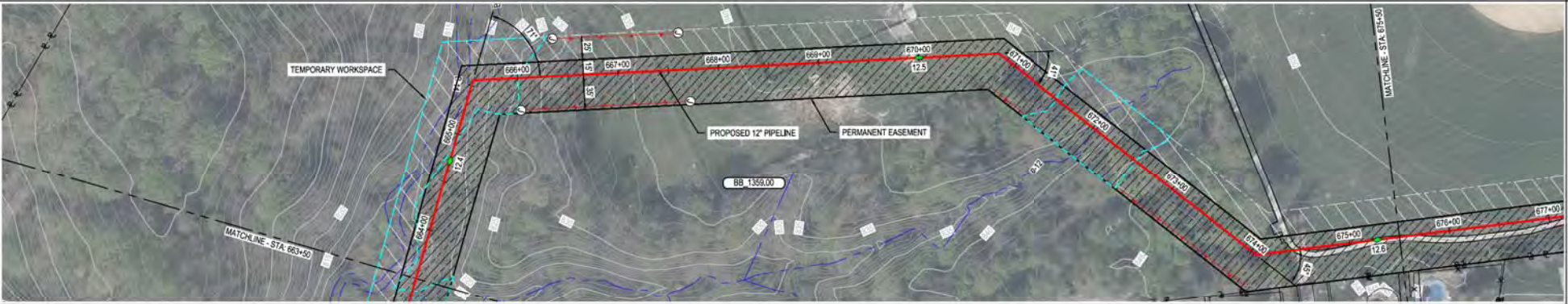
APPROVALS		REGIONAL ENGINEER
DATE	INITIALS	
DATE	INITIALS	
DATE	INITIALS	




MGR. TECH REC & STD
 PRINCIPAL ENGINEER
 COPYRIGHT 2020

**C367 PIPELINE
 ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/14/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002079
REVISION	C
CKEILLOGG/CW7	



PROFESSIONAL ENGINEER/STAMP

RIGHT-OF-WAY

STATIONING

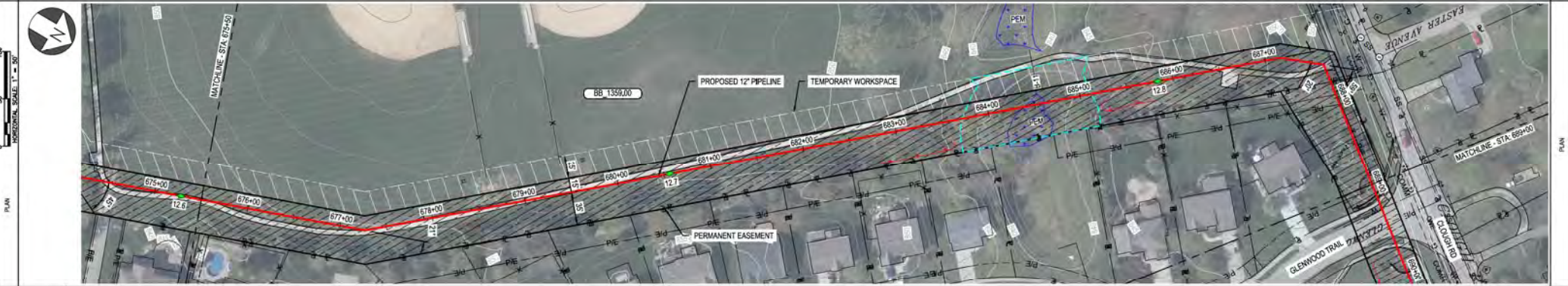
PLAN

PIPE DATA

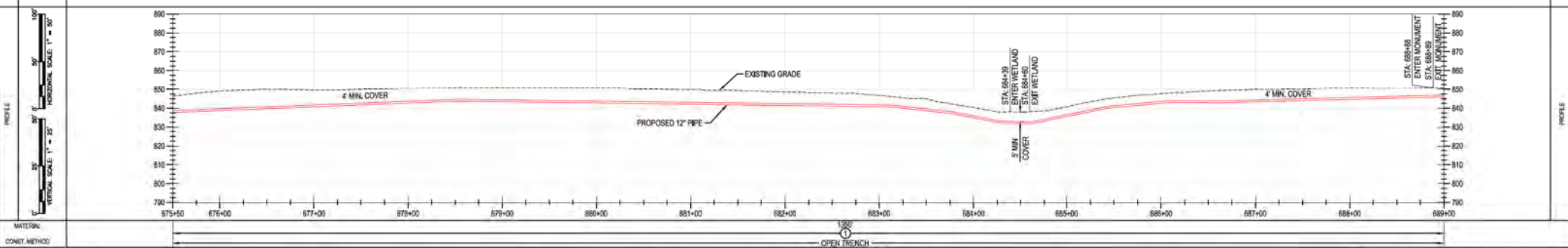
PROFILE

OWNER/SHIP JURISDICTION ACREAGE EASEMENTS REF. DWG. NO.	BB 1359.00	BB 1359.00
	BATAVIA TOWNSHIP BOARD OF TRUSTEES BATAVIA TOWNSHIP	GLENWOOD TRAILS COMMUNITY ASSOCIATION INC BATAVIA TOWNSHIP

STATIONING



PIPE DATA (SLOPE STATIONING)	STA.	WELL #	COND.	WELL #	COND.
	STA.	WELL #	COND.	STA.	WELL #



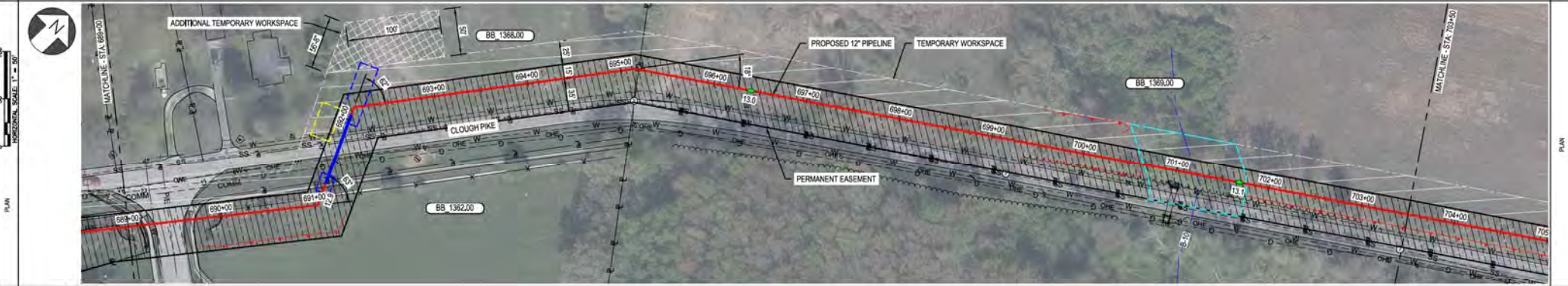
MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

<p>DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM).</p>		<p>REF. DWG(S) SEE REFERENCE BAND</p>
<p>REV. DATE REVISION/DESCRIPTION</p> <p>A 11-06-2020 ISSUED FOR 30% REVIEW</p> <p>B 12-18-2020 REVISED 30% DESIGN</p> <p>C 02-19-2021 60% DESIGN FOR OPSB</p>	<p>BY DATE (APPV) DESCRIPTION</p> <p>SFS JMP CNS AREA CODE</p> <p>SFS JMP CNS PROJECT NUMBER AW1982</p> <p>SFS JMP CNS PROJECT NUMBER AW1982</p> <p>DRAWING BY SFS</p> <p>STATION ID</p> <p>CHECKER INITIALS JMP</p>	<p>APPROVALS</p> <p>REGIONAL MANAGER</p> <p>MGR TECH REC & STD</p> <p>PRINCIPAL ENGINEER</p>
<p>DUKE ENERGY Piedmont Natural Gas</p> <p>ALIGNMENT SHEET CLERMONT COUNTY, OHIO</p> <p>KELLOGG, OH</p>		<p>SHEET(S) 1 OF X DWG SCALE AS NOTED</p> <p>DWG DATE 10/14/2020 SUPERSEDED</p> <p>DRAWING NUMBER PNG -C-367-0002080</p> <p>REVISION C</p> <p>CKS1KELLOGG/CW7</p>

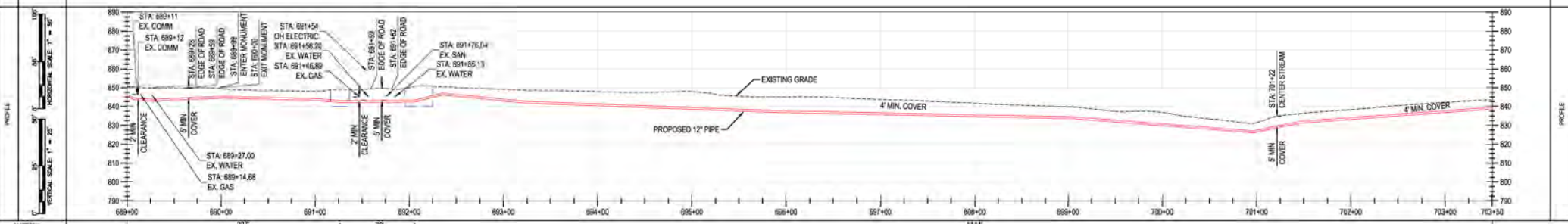
BORDER OF WAY	OWNERSHIP	R/W	BB 1362.00	R/W	BB 1368.00	BB 1368.00
	JURISDICTION	BATAVIA TOWNSHIP	GLENWOOD TRAILS COMMUNITY ASSOCIATION INC BATAVIA TOWNSHIP	BATAVIA TOWNSHIP	THOMAS A MCALLISTER BATAVIA TOWNSHIP	LARRY ROBERTS LLC BATAVIA TOWNSHIP
	ACREAGE					
	EASEMENTS					
REF. DWG. NO.						

STATIONING



PIPE DATA (SLOPE STATIONING)	PIPE #	SIZE	DEPTH	COVER
	STA	STA	STA	STA

NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE BORES.
ANY CHANGES IN INSTALLATION METHOD FROM
THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.



MATERIAL	CLASS / MAOP
CONST. METHOD	CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 01567

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REF. DWG(S) SEE REFERENCE BAND

REV	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER AW1982
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER AW1982

DRAWING BY: SFS
STATION ID:
CHECKER INITIALS: JMP

APPROVALS:

DATE	INITIALS	REGIONAL FACILITATOR
DATE	INITIALS	MGR TECH REC & STD
DATE	INITIALS	PRINCIPAL ENGINEER

REGIONAL FACILITATOR: [Signature]
MGR TECH REC & STD: [Signature]
PRINCIPAL ENGINEER: [Signature]

DUKE ENERGY | Piedmont Natural Gas

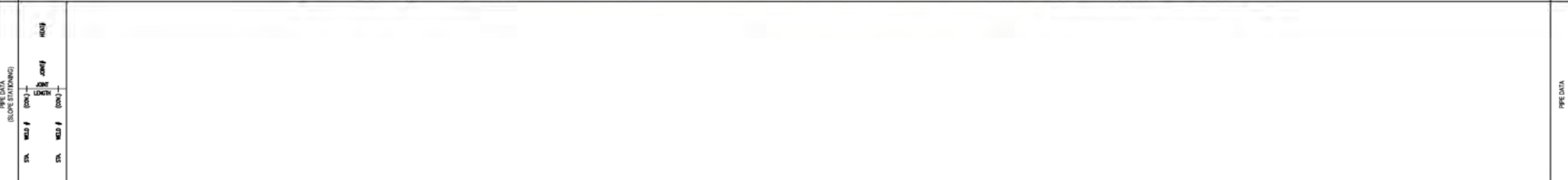
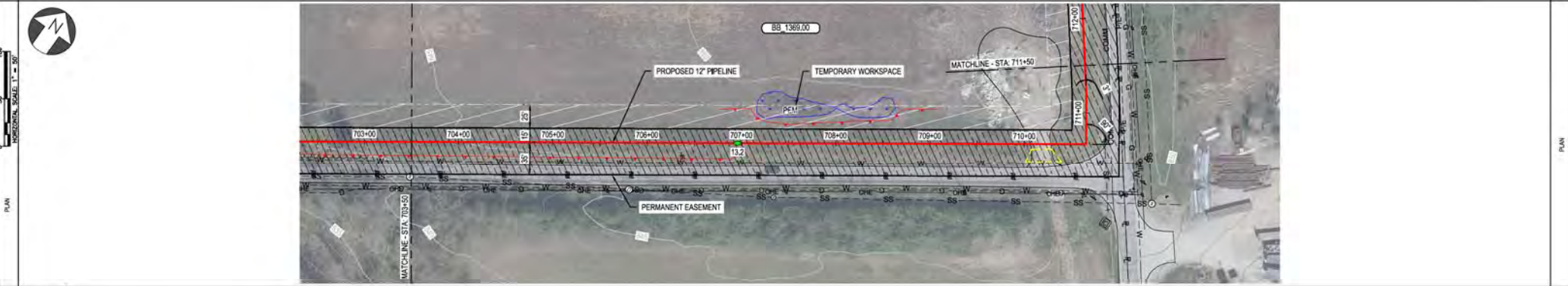
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

COPYRIGHT 2020

SHEET(S) 1 OF X | DWG SCALE AS NOTED
DWG DATE 10/14/2020 | SUPERSEDED
DRAWING NUMBER: PNG -C-367-0002081
REVISION: C
CNS/KELLOGG/C367

OWNERSHIP	BB 1369.00
JURISDICTION	LARRY ROBERTS LLC
ACREAGE	BATAVIA TOWNSHIP
EASEMENTS	
REF. DWG. NO.	

STATIONING	
------------	--



MATERIAL	
CONSTR. METHOD	
CLASS / MAP	OPEN TRENCH CLASS 4 / MAP 526 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA 01557

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*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

REV.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS/AREA CODE	-	-	REGIONAL ENGINEER
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/ACCOUNT NUMBER	AW1982	-	MGR TECH REC & STD
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS/PROJECT NUMBER	AW1982	-	PRINCIPAL ENGINEER
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

DUKE ENERGY | Piedmont Natural Gas

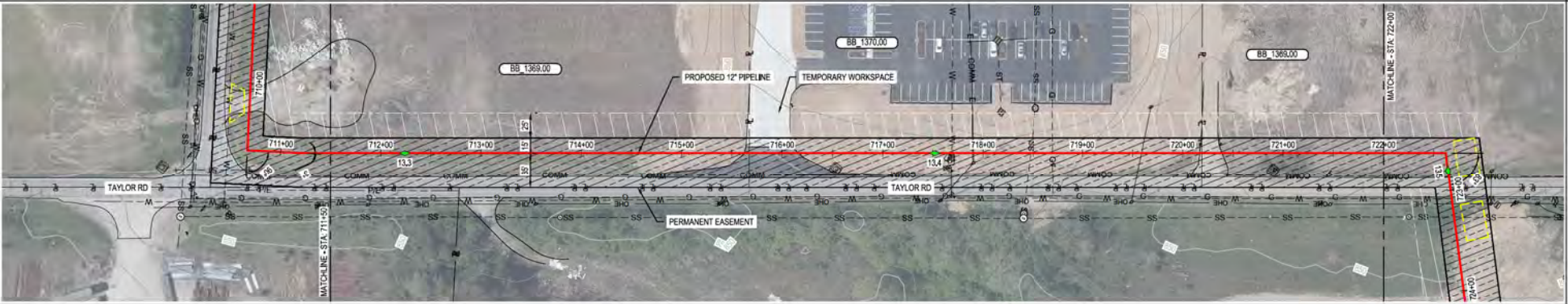
C367 PIPELINE ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
KELLOGG, OH

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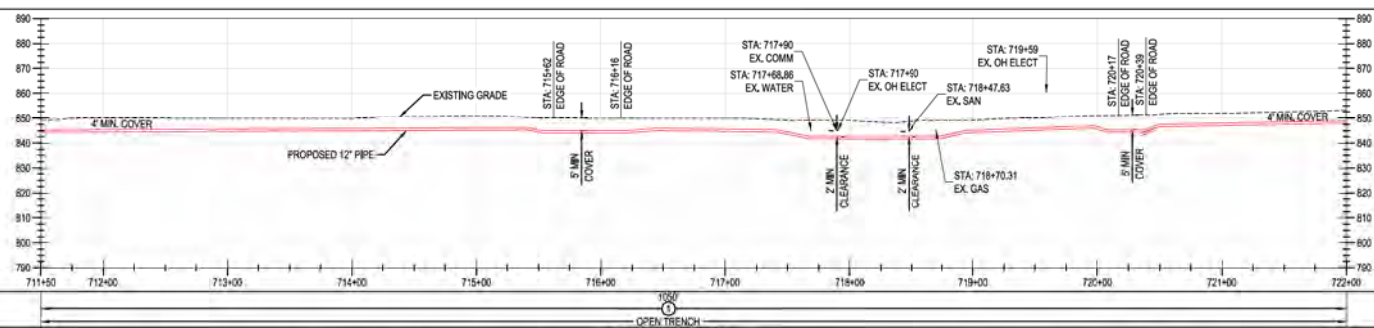
REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	1 OF X
DWG SCALE	AS NOTED
DWG DATE	10/14/2020
SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002082
REVISION	C
CNKL00000007	

RIGHT-OF-WAY	OWNERSHIP	BB 1369.00	BB 1370.00	BB 1369.00
	JURISDICTION	LARRY ROBERTS LLC BATAVIA TOWNSHIP	ENTERTAINMENT MOBILE SOLUTIONS LLC BATAVIA TOWNSHIP	LARRY ROBERTS LLC BATAVIA TOWNSHIP
	ACREAGE			
	EASEMENTS			
REF. DWG. NO.				

STATIONING				
------------	--	--	--	--



PIPE DATA (SLOPE STATIONING)	STA	WELL #	COND	WELL #	COND
	STA	WELL #	COND	STA	WELL #



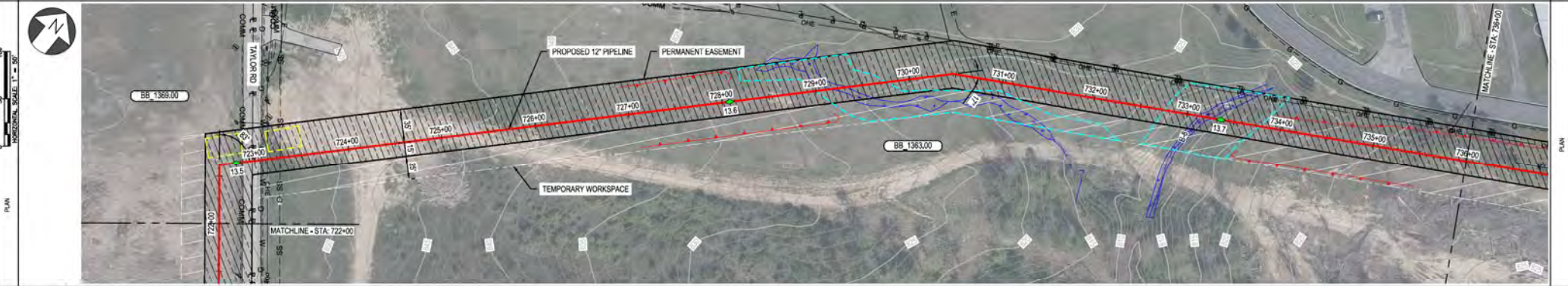
MATERIAL: OPEN TRENCH CLASS 4 / MAOP 535 PSIG

BURNS & MCCONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01557

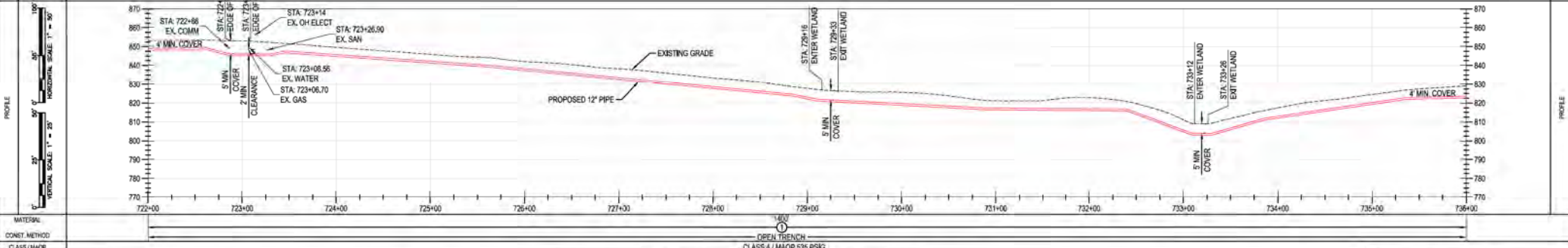
REVISIONS A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB		BY DATE (APP) DESCRIPTION SFS JMP CNS AREA CODE SFS JMP CNS ACCOUNT NUMBER AW1982 SFS JMP CNS PROJECT NUMBER AW1982 DRAWING BY SFS STATION ID CHECKER INITIALS JMP		APPROVALS REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER		REF. DWG(S) SEE REFERENCE BAND SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/14/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002083 REVISION C C367 PIPELINE ALIGNMENT SHEET CLERMONT COUNTY, OHIO KELLOGG, OH COPYRIGHT 2020	
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BENCH-MARK	OWNERSHIP	BB 1369.00	BB 1363.00
	JURISDICTION	LARRY ROBERTS LLC BATAVIA TOWNSHIP	ALLAN M CLAYTON SUCCESSOR TRUSTEE BATAVIA TOWNSHIP
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.			

STATIONING	
------------	--



PIPE DATA (SLOPE STATIONING)	PIPE #	SIZE	DEPTH
	STA	STA	STA



MATERIAL: OPEN TRENCH CLASS 4 / MOP 535 PSK

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MFL DATE A 11-06-2020 ISSUED FOR 30% REVIEW B 12-18-2020 REVISED 30% DESIGN C 02-19-2021 60% DESIGN FOR OPSB	REVISIONS/DESCRIPTION BY CHK (APPV) DESCRIPTION DATE INITIALS SFS JMP CNS AREA CODE - - - SFS JMP CNS ACCOUNT NUMBER AW1982 - - - SFS JMP CNS PROJECT NUMBER AW1982 - - - DRAWING BY SFS STATION ID CHECKER INITIALS JMP	SHEET(S) 1 OF X DWG SCALE AS NOTED DWG DATE 10/14/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-0002084 REVISION C CNEKLOGG/C367

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KELLOGG, OH

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PRINCIPAL ENGINEER

BB 1363.00
 ALLAN M CLAYBON SUCCESSOR TRUSTEE
 BATAVA TOWNSHIP

OWNERSHIP
 JURISDICTION
 ACREAGE
 EASEMENTS
 REF. DWG. NO.

STATIONING



PIPE DATA (SLOPE STATIONING)

STA.	WELL #	COND.	WELL #	COND.
736+00				
737+00				
738+00				
739+00				
740+00				
741+00				
742+00				
743+00				
744+00				
745+00				
746+00				
747+00				
748+00				
749+00				
750+00				
751+00				



MATERIAL:
 CONST. METHOD:
 CLASS / MAMP:

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 *PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY

REV.	DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	INITIALS	APPROVALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	SFS	JMP	CNS	AREA CODE				
B	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS	PROJECT NUMBER	AW1982			
C	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	CNS	PROJECT NUMBER	AW1982			
						DRAWING BY	SFS			
						STATION ID				
						CHECKER INITIALS	JMP			

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 1 OF X DWG SCALE AS NOTED

DWG DATE 10/14/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002085

REVISION C

CKE/KLOGG/CW7

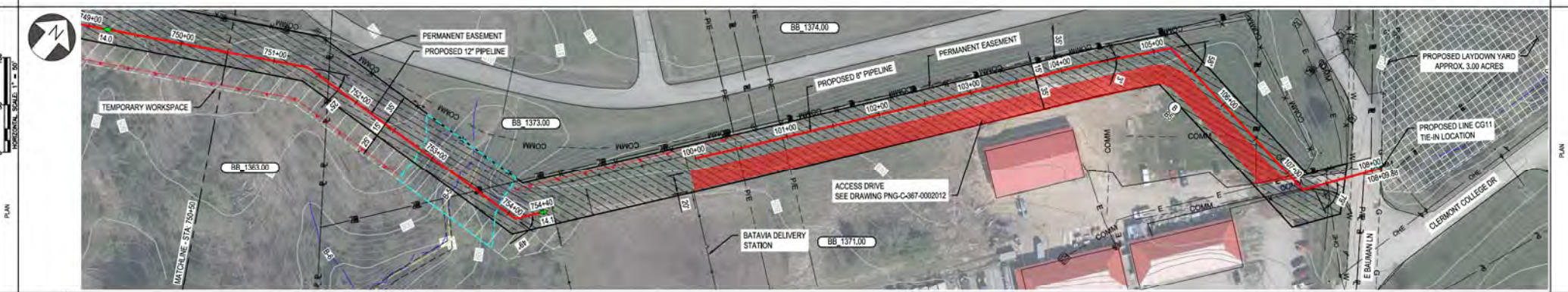


**C367 PIPELINE
 ALIGNMENT SHEET
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
 COPYRIGHT 2020

OWNERSHIP	BB 1363.00	BB 1373.00	BB 1371.00	BB 1374.00
JURISDICTION	ALLAN M CLAYBON SUCCESSOR TRUSTEE BATAVIA TOWNSHIP	HAROLD JR & SANDRA D SHEVERS CO TRUSTEES BATAVIA TOWNSHIP	TRI STATE EQUIPMENT SERVICES LLC BATAVIA TOWNSHIP	HAROLD JR & SANDRA D SHEVERS CO TRUSTEES BATAVIA TOWNSHIP
ACREAGE				
EASEMENTS				
REF. DWG. NO.				

STATIONING

RIGHT-OF-WAY



MATERIAL	OPEN TRENCH	CLASS 4 / MAOP 535 PSIG	OPEN TRENCH
CONST. METHOD			
CLASS / MAOP			

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # COA, 01567

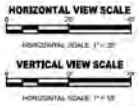
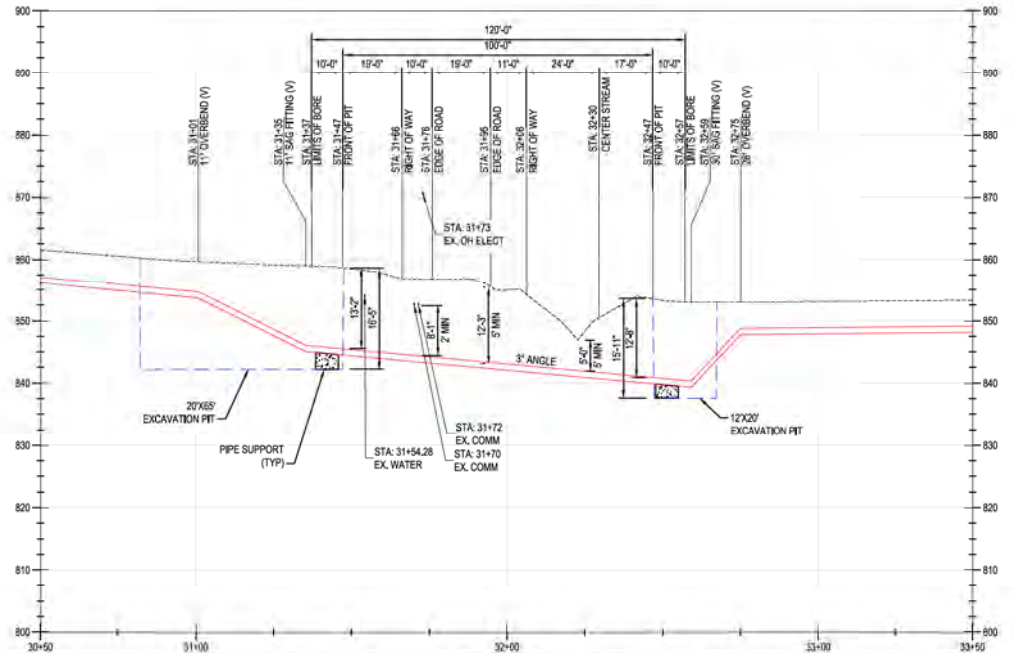
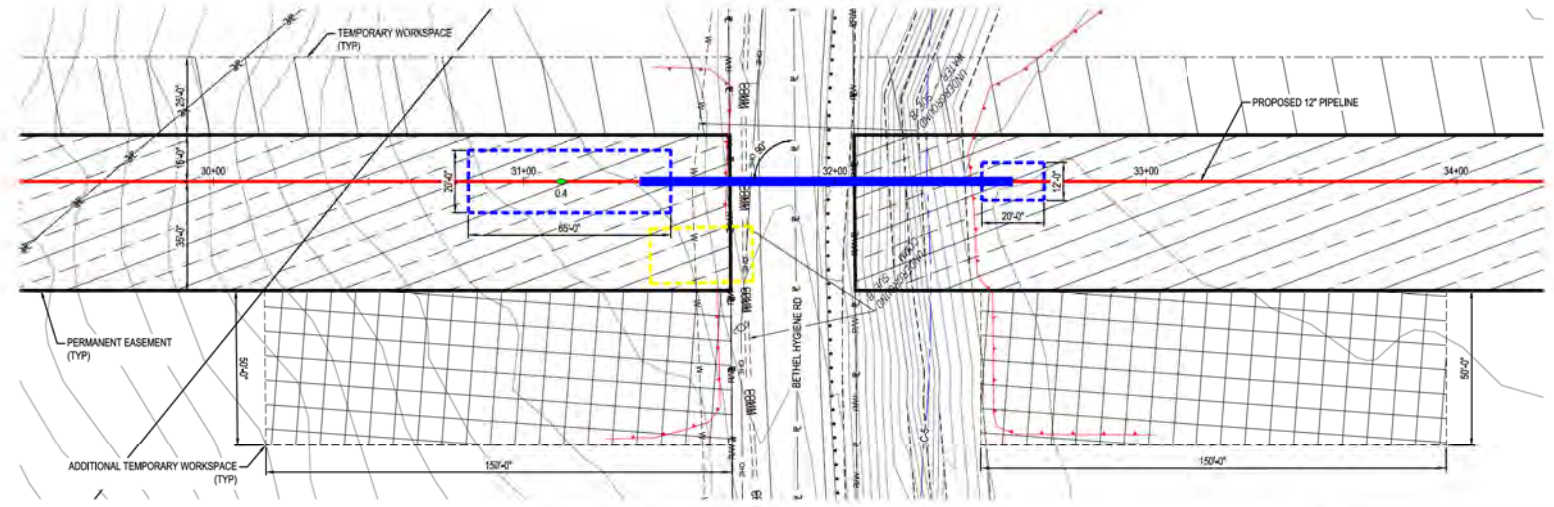
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REF. DWG(S) SEE REFERENCE BAND

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS / DESCRIPTION</th> </tr> <tr> <td>A</td> <td>11-06-2020</td> <td>ISSUED FOR 30% REVIEW</td> </tr> <tr> <td>B</td> <td>12-18-2020</td> <td>REVISED 30% DESIGN</td> </tr> <tr> <td>C</td> <td>02-19-2021</td> <td>60% DESIGN FOR OPSB</td> </tr> </table>	NO.	DATE	REVISIONS / DESCRIPTION	A	11-06-2020	ISSUED FOR 30% REVIEW	B	12-18-2020	REVISED 30% DESIGN	C	02-19-2021	60% DESIGN FOR OPSB	<p>BY: SFS</p> <p>DATE: -</p> <p>APPROVALS</p> <p>REGIONAL ENGINEER</p> <p>MANAGER REC & STD</p> <p>PRINCIPAL ENGINEER</p>	<p>DESCRIPTION</p> <p>AW1982</p> <p>AW1982</p> <p>SFS</p> <p>JMP</p>	<p>PROJECT NUMBER</p> <p>AW1982</p> <p>DRAWING BY</p> <p>SFS</p> <p>STATION ID</p> <p>CHECKER INITIALS</p> <p>JMP</p>	<p>DUKE ENERGY</p> <p>Piedmont Natural Gas</p> <p>Copyright 2020</p>	<p>C367 PIPELINE</p> <p>ALIGNMENT SHEET</p> <p>CLERMONT COUNTY, OHIO</p> <p>KELLOGG, OH</p>	<p>SHEET(S) 1 OF X</p> <p>DWG SCALE AS NOTED</p> <p>DWG DATE 10/14/2020</p> <p>SUPERSEDED</p> <p>DRAWING NUMBER</p> <p>PNG -C-367-0002086</p> <p>REVISION</p> <p>C</p> <p>CNSKELLOGG007</p>
NO.	DATE	REVISIONS / DESCRIPTION																
A	11-06-2020	ISSUED FOR 30% REVIEW																
B	12-18-2020	REVISED 30% DESIGN																
C	02-19-2021	60% DESIGN FOR OPSB																

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STATE LICENSE # COA. 01957

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
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BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

DATE	INITIALS	APPROVALS

REGIONAL MANAGER

MGR. TECH REC & STD

PRINCIPAL ENGINEER

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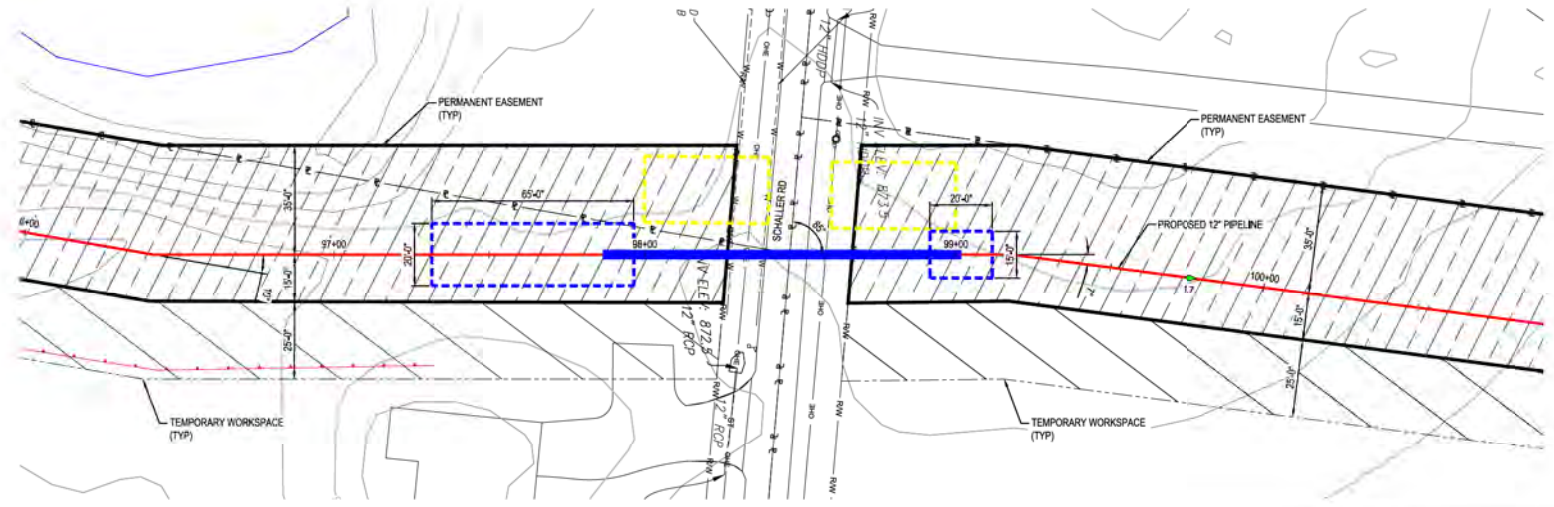
**C367 PIPELINE
CROSSING DETAIL 01
CLERMONT COUNTY, OHIO**

KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/01/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002101	A

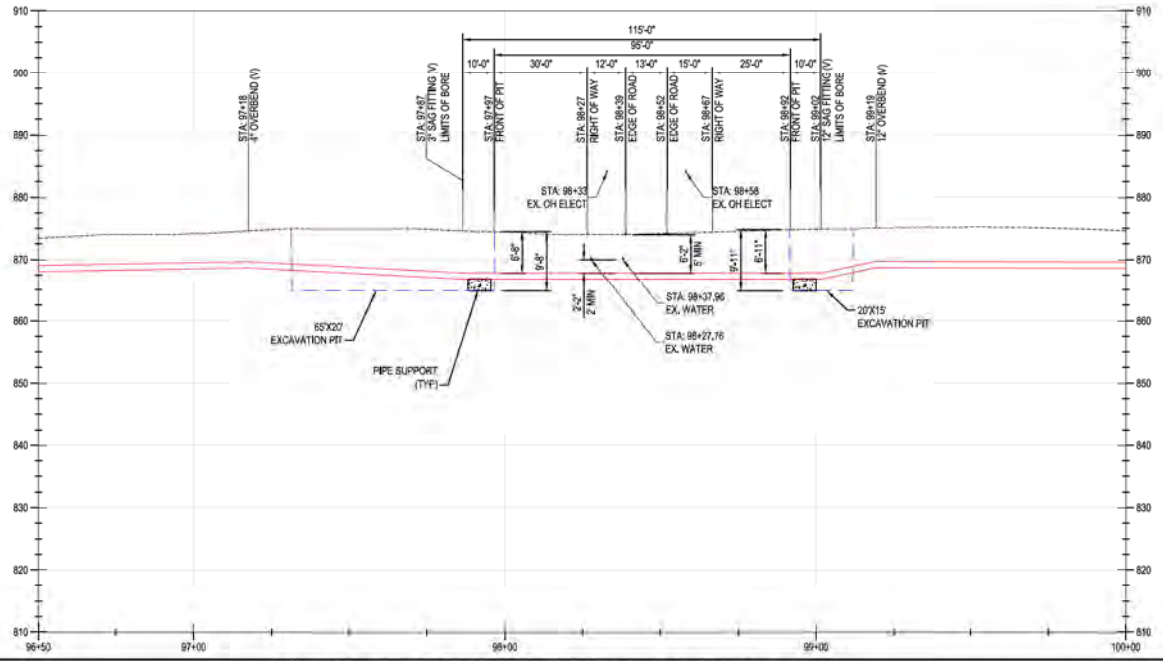
PROFESSIONAL ENGINEER STAMP

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HORIZONTAL VIEW SCALE
HORIZONTAL SCALE: 1"=20'
VERTICAL VIEW SCALE
VERTICAL SCALE: 1"=10'

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STATE LICENSE # COA. 01957

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

APPROVALS	
REGIONAL ENGINEER	
MGR. TECH REC & STD	
PRINCIPAL ENGINEER	

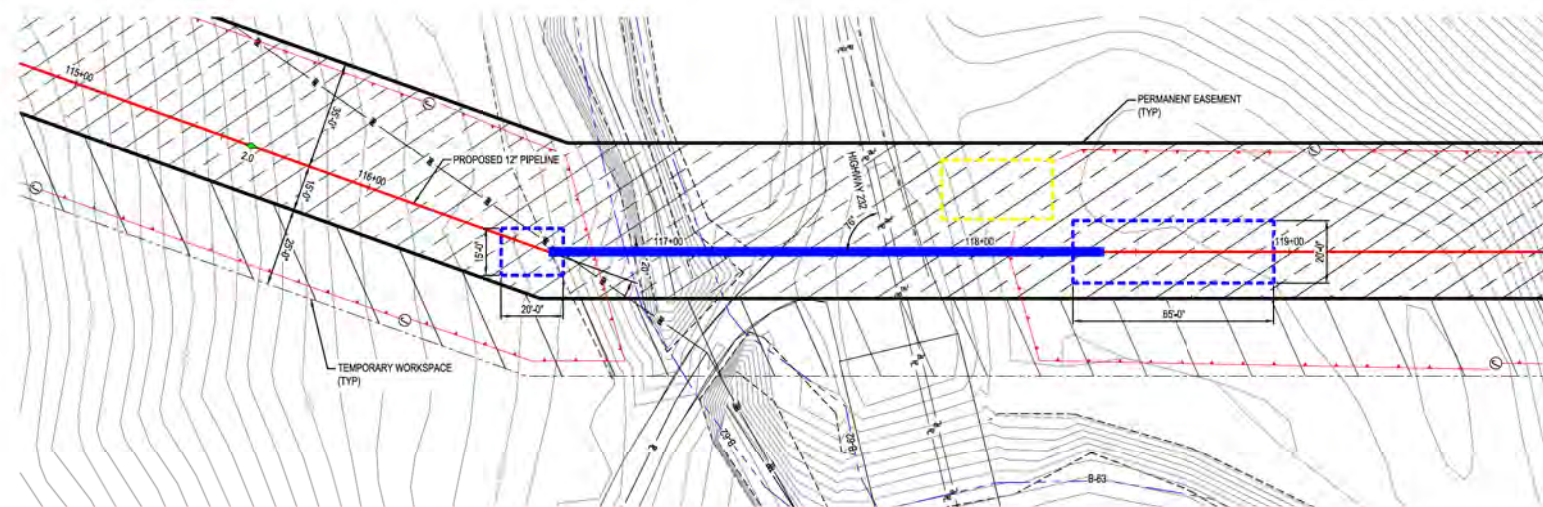
**C367 PIPELINE
CROSSING DETAIL 02
CLERMONT COUNTY, OHIO**

KELLOGG, OH
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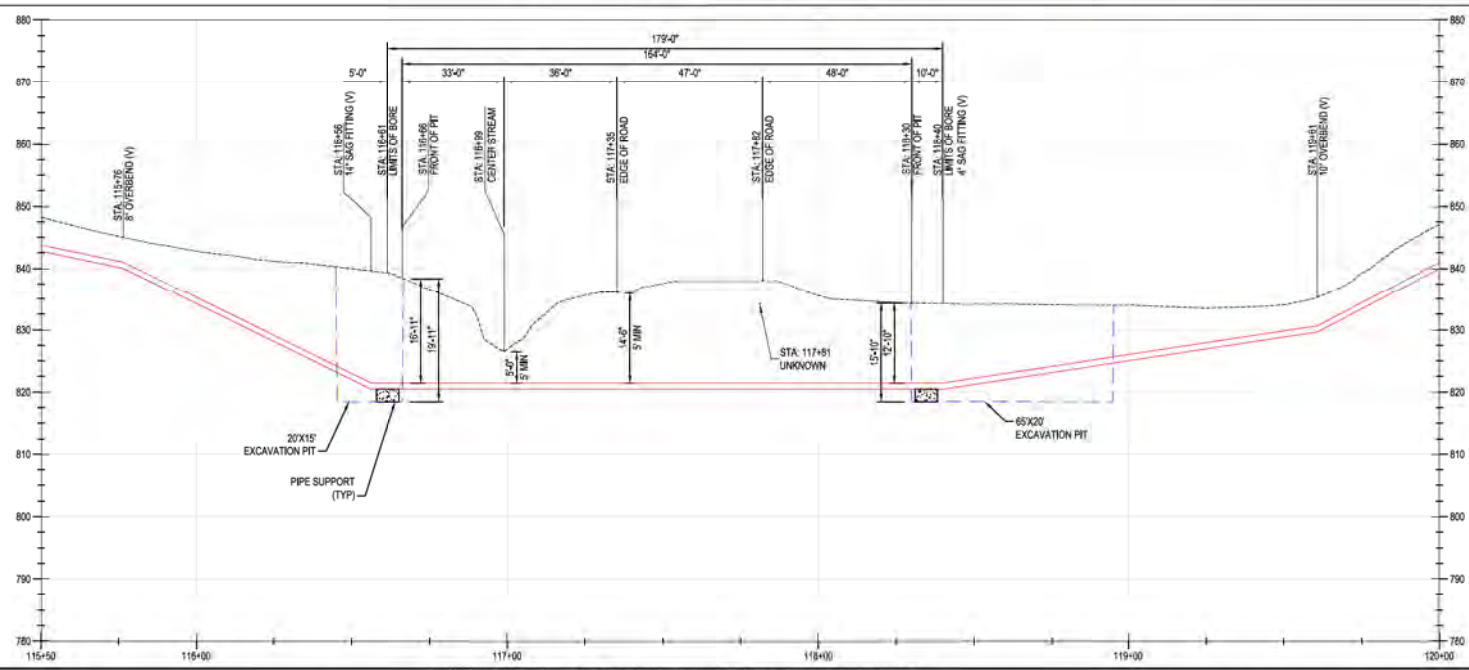
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/01/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002102	A

PROFESSIONAL ENGINEER STAMP

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PROFILE



HORIZONTAL VIEW SCALE
 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE
 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPS/B

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

APPROVALS	
REGIONAL ENGINEER	
MGR. TECH. REC. & STD.	
PRINCIPAL ENGINEER	

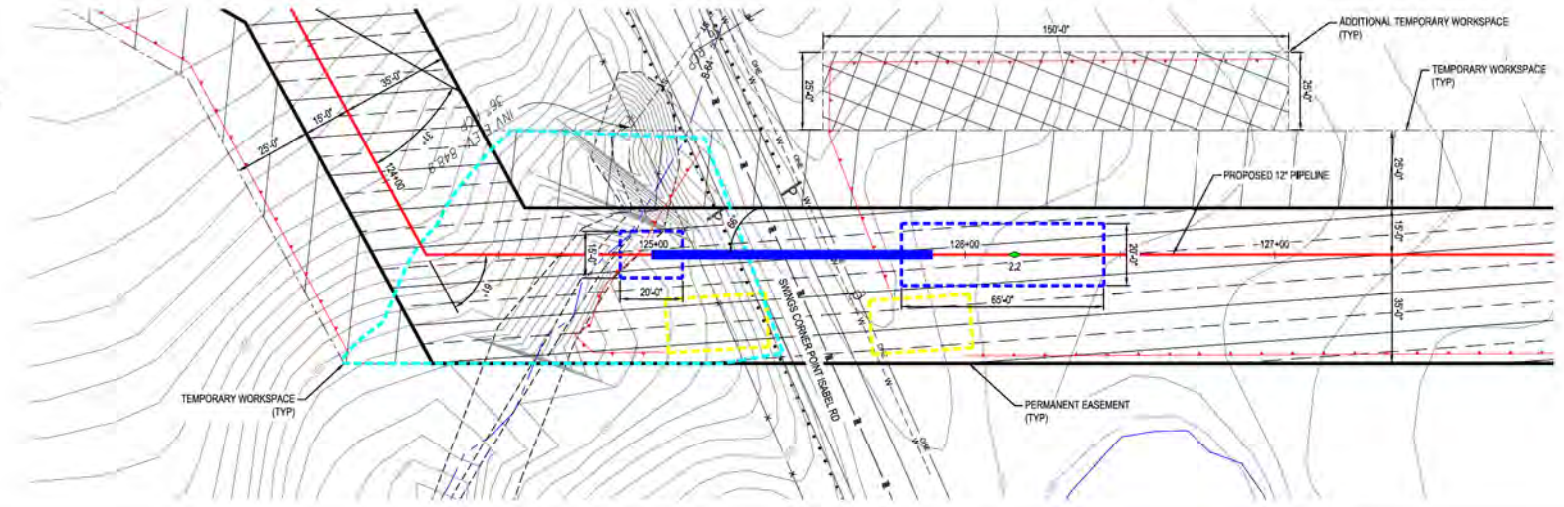


**C367 PIPELINE
 CROSSING DETAIL 03
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
 COPYRIGHT 2009

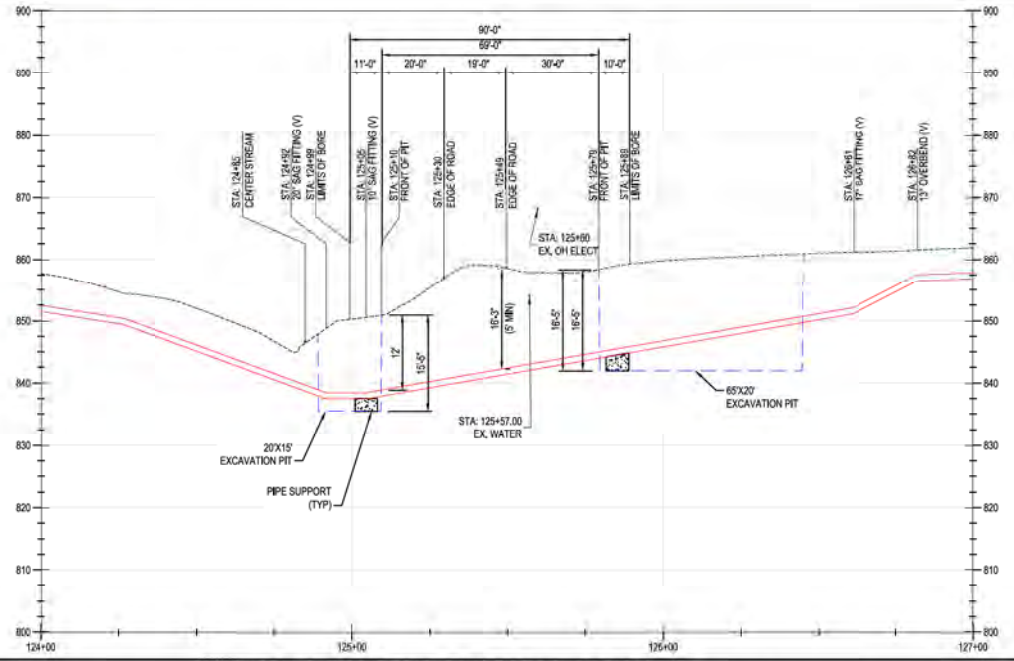
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/01/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002103	A

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



HORIZONTAL VIEW SCALE

 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE

 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION	DATE	APPROVALS
SFS	JMP	GNS	AREA CODE		
			ACCOUNT NUMBER	AW1902	
			PROJECT NUMBER	AW1902	
			DRAWING BY	SFS	
			STATION ID		
			CHECKER INITIALS	JMP	

REGIONAL MANAGER

MGR. TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

Piedmont Natural Gas

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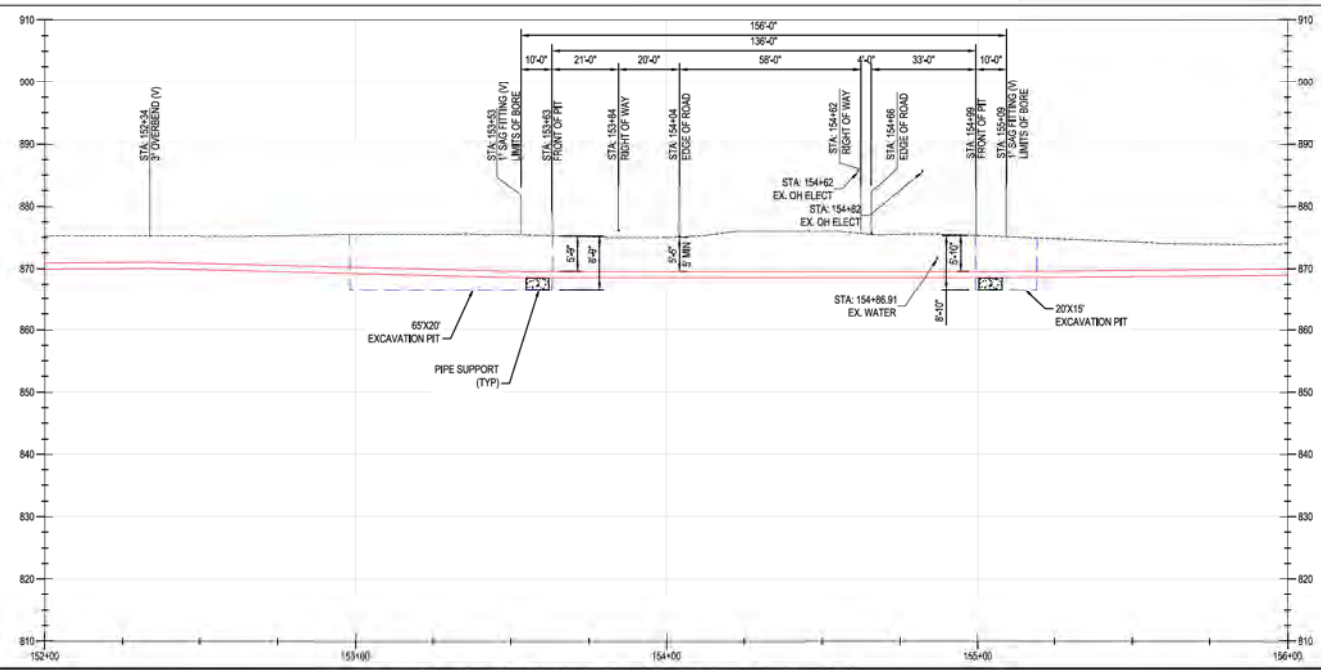
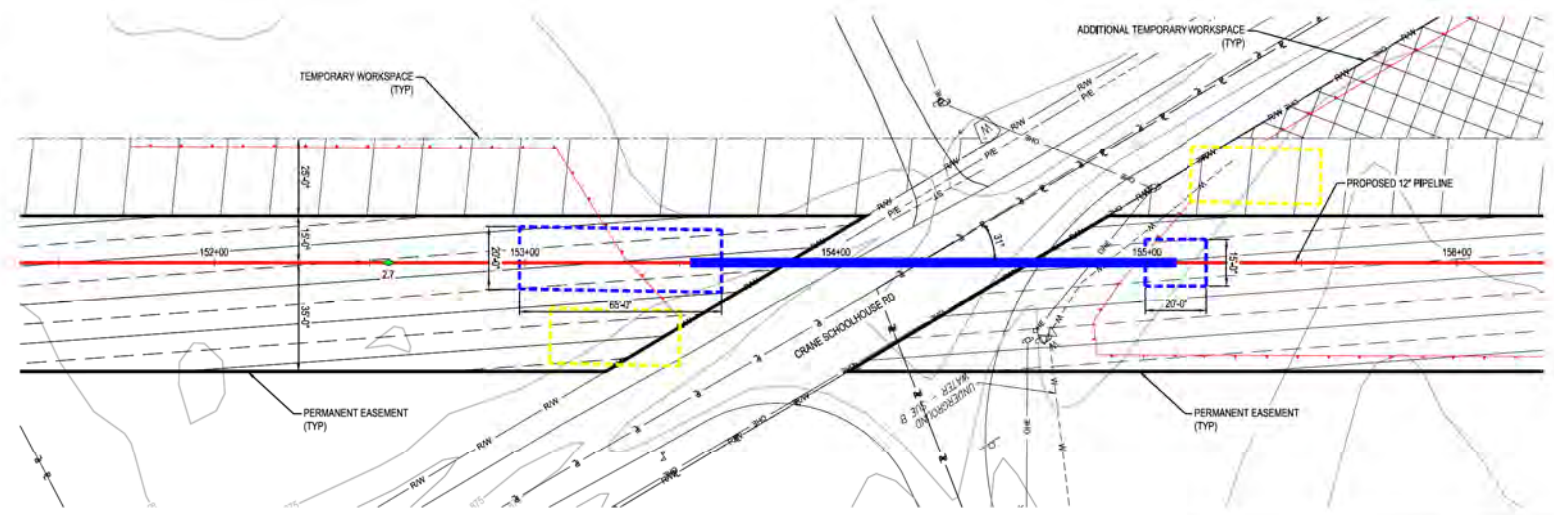
**C367 PIPELINE
 CROSSING DETAIL 04
 CLERMONT COUNTY, OHIO**

KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/01/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002104	A
CNKL00000007	

PLAN

PROFILE



HORIZONTAL VIEW SCALE
 1" = 20'
VERTICAL VIEW SCALE
 1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

REGIONAL ENGINEER	APPROVALS
	DATE INITIAL
	DATE INITIAL
	DATE INITIAL

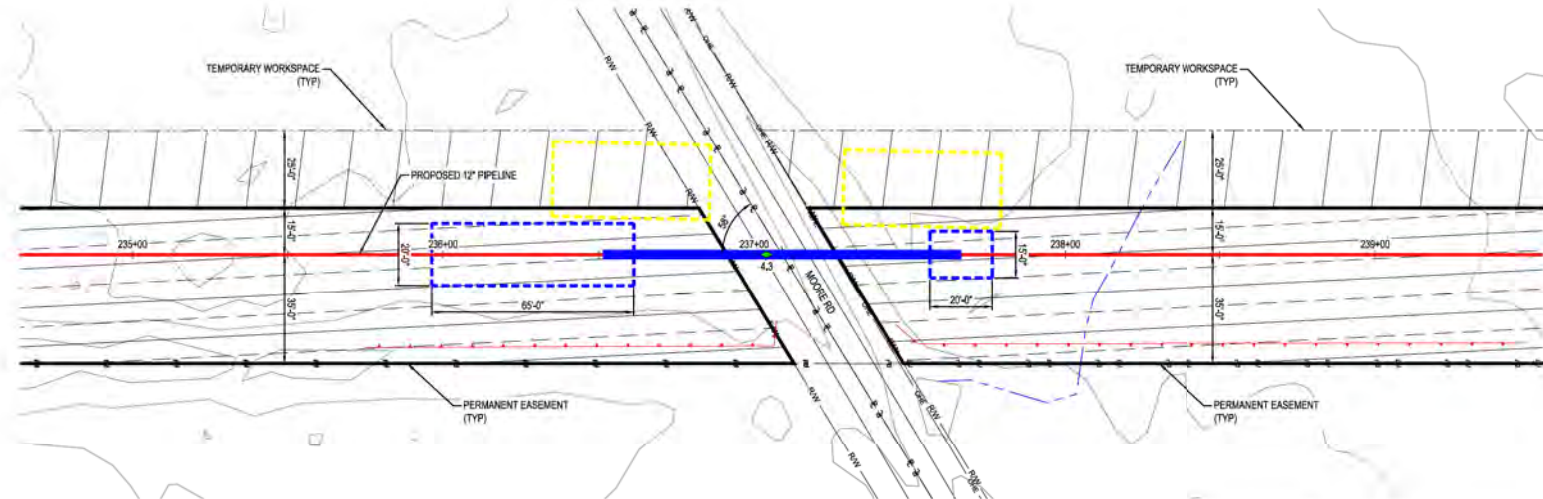
**C367 PIPELINE
 CROSSING DETAIL 05
 CLERMONT COUNTY, OHIO**

KELLOGG, OH
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SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/04/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002105	A

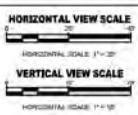
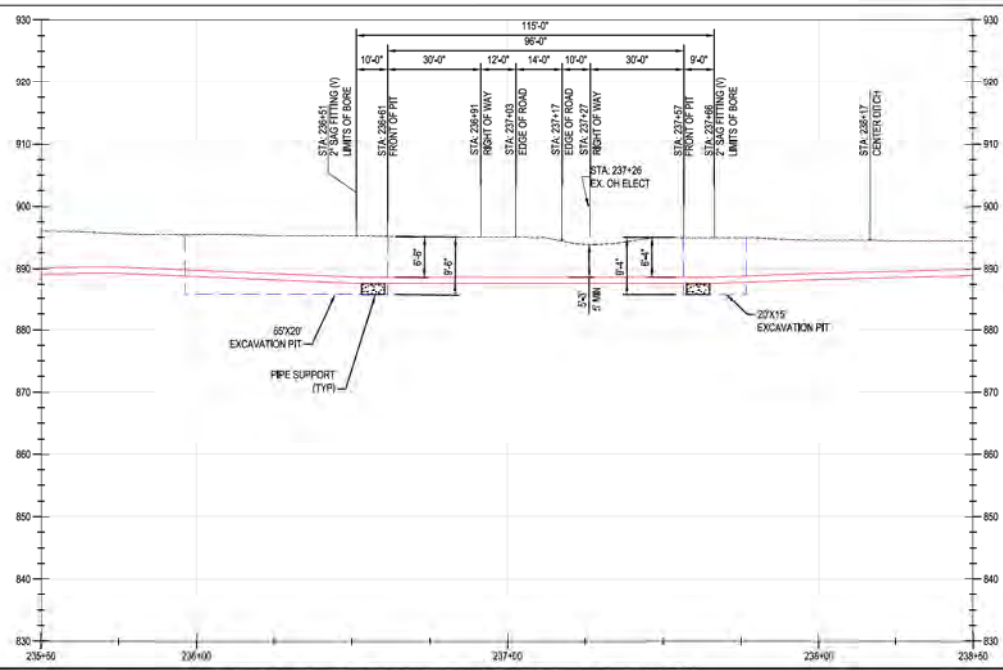
PROFESSIONAL ENGINEER STAMP

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	GNS	

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D	DESCRIPTION

**C367 PIPELINE
CROSSING DETAIL 06
CLERMONT COUNTY, OHIO**

KELLOGG, OH

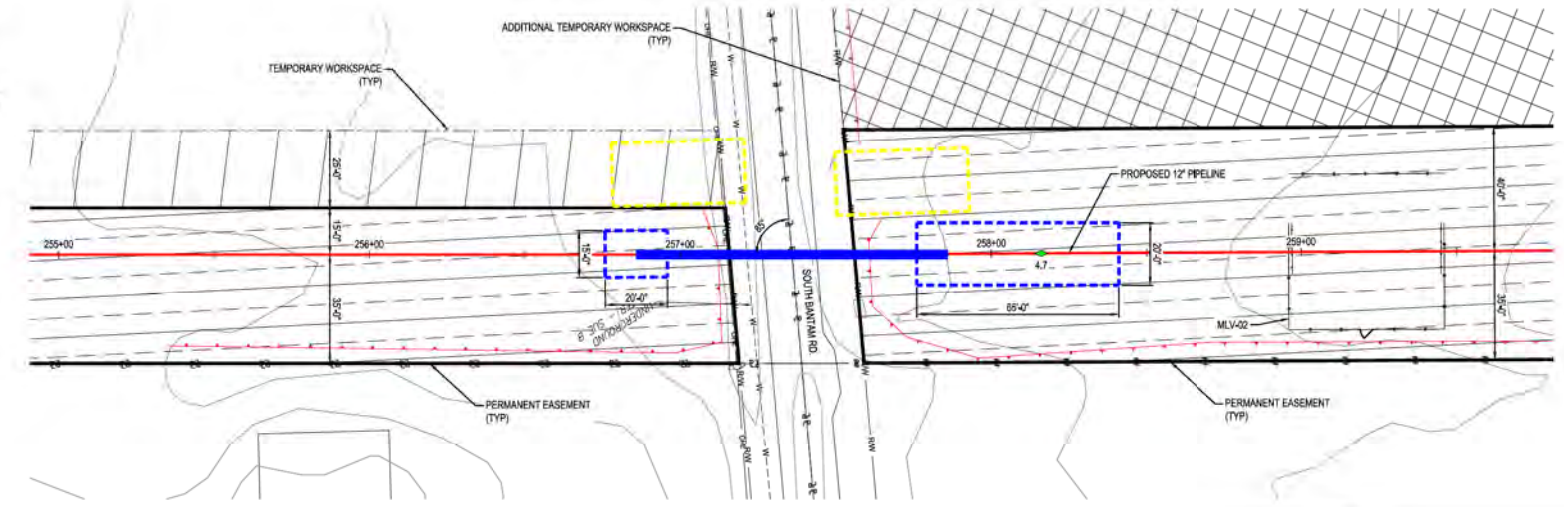
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/04/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002106	A

PROFESSIONAL ENGINEER STAMP



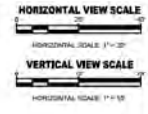
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NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE
BORES, ANY CHANGES IN INSTALLATION METHOD
FROM THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.



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STATE LICENSE # COA. 01957

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

APPROVALS	
REGIONAL ENGINEER	
MGR. TECH REC & STD	
PRINCIPAL ENGINEER	

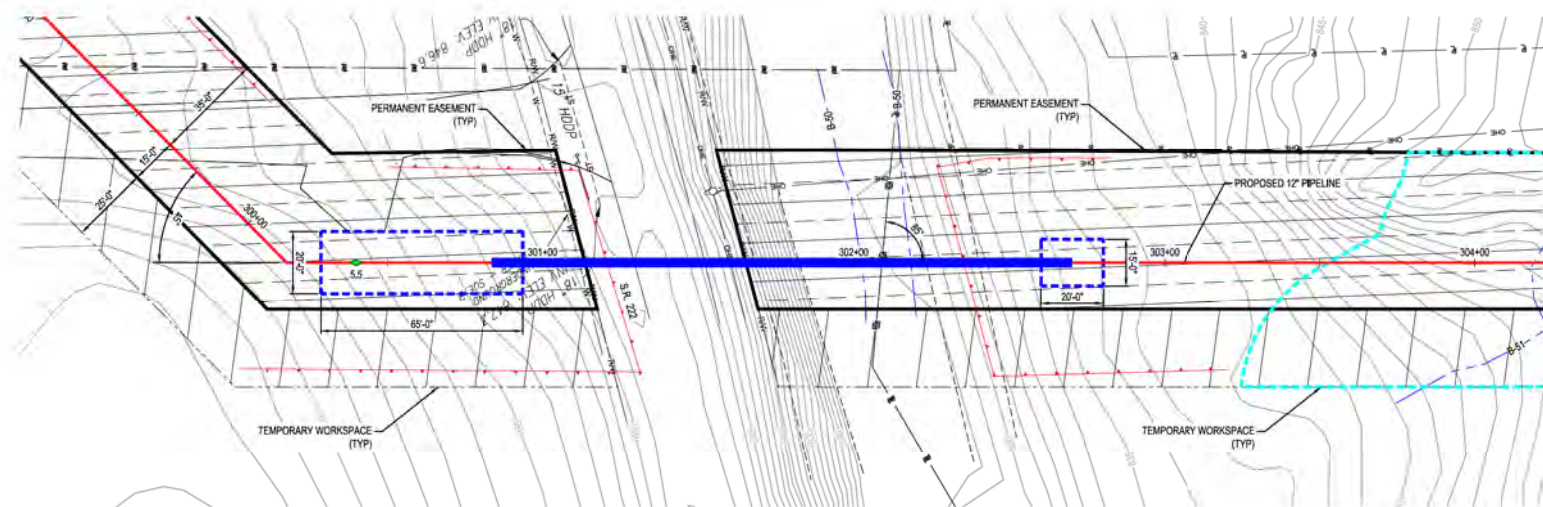


**C367 PIPELINE
CROSSING DETAIL 07
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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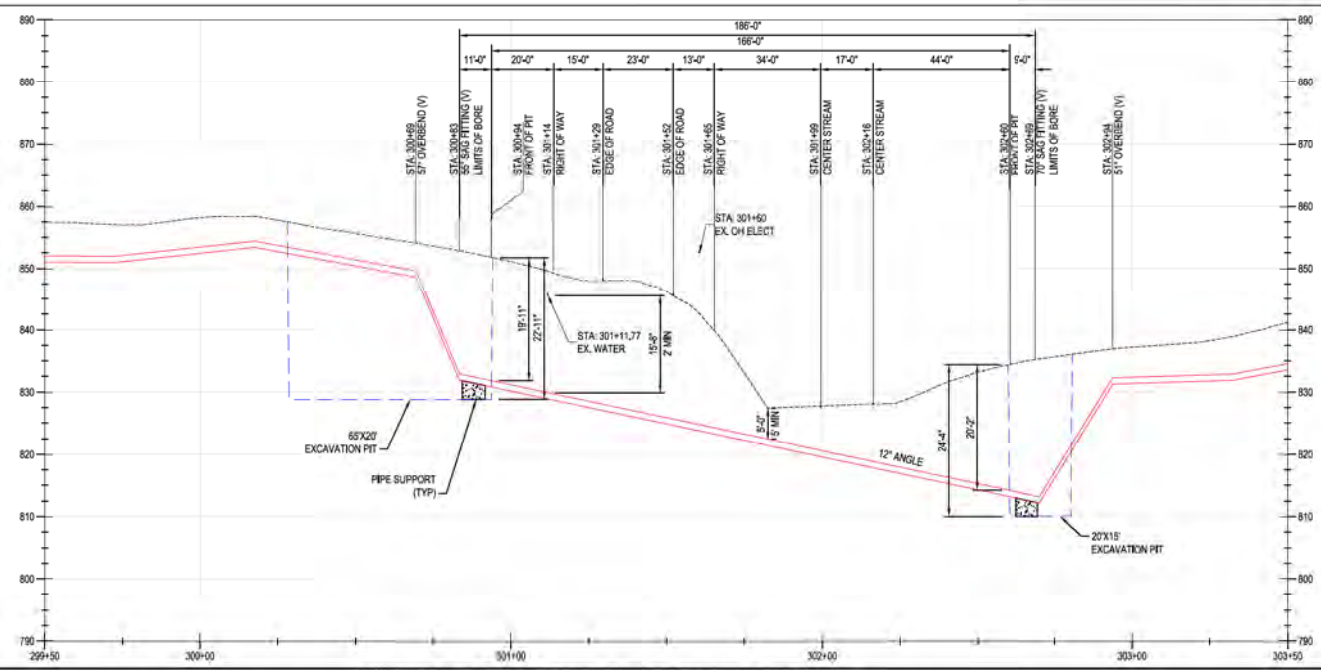
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/04/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002107	A

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



HORIZONTAL VIEW SCALE
 1" = 20'
VERTICAL VIEW SCALE
 1" = 10'

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 ENGINEERING COMPANY, INC.
 STATE LICENSE # COA. 01957

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	80% DESIGN FOR OPSB

BY	CHK	APPD	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

APPROVALS	
REGIONAL MANAGER	
MGR TECH REC & STD	
PRINCIPAL ENGINEER	



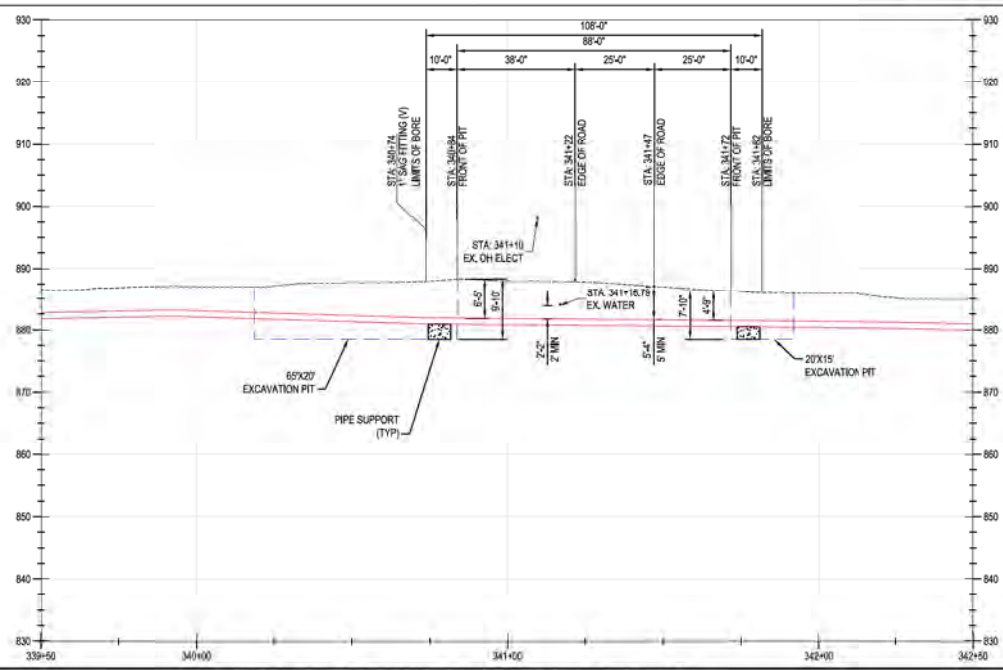
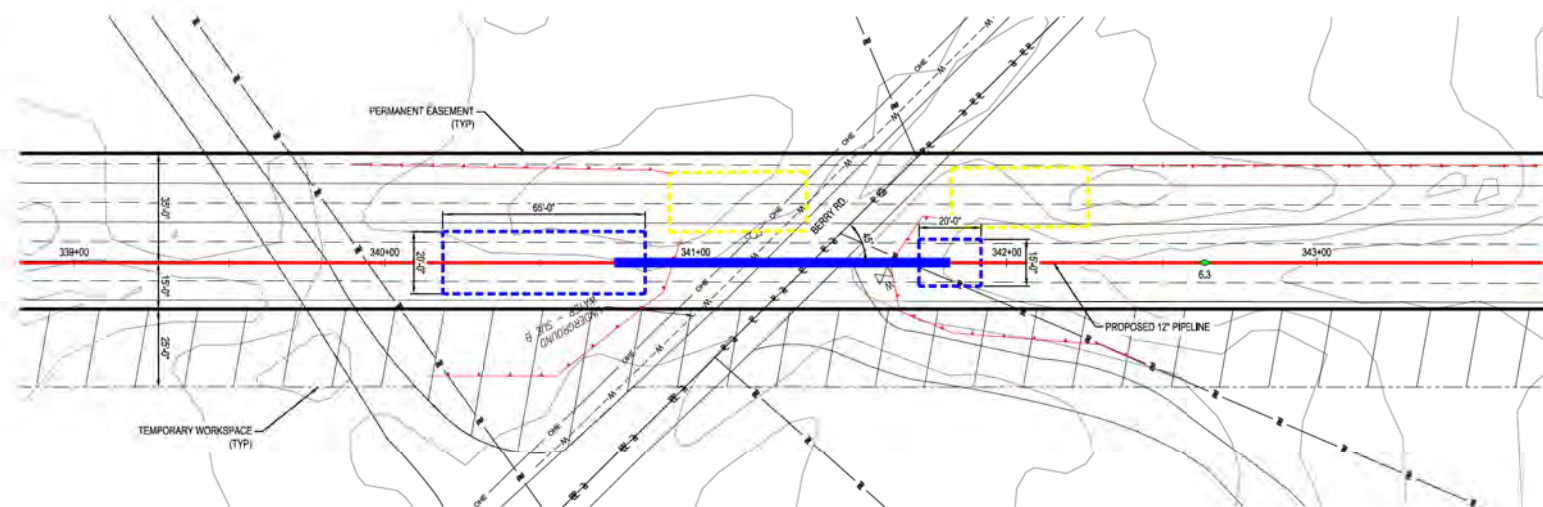
**C367 PIPELINE
 CROSSING DETAIL 08
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
 COPYRIGHT 2021

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/04/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002108	A

PROFESSIONAL ENGINEER STAMP

PLAN

PROFILE



HORIZONTAL VIEW SCALE
1" = 20'

VERTICAL VIEW SCALE
1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPS/B

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

DATE	INITIALS	APPROVALS

REGIONAL MANAGER
MGR. TECH. REC. & STD.
PRINCIPAL ENGINEER

DUKE ENERGY | Piedmont Natural Gas

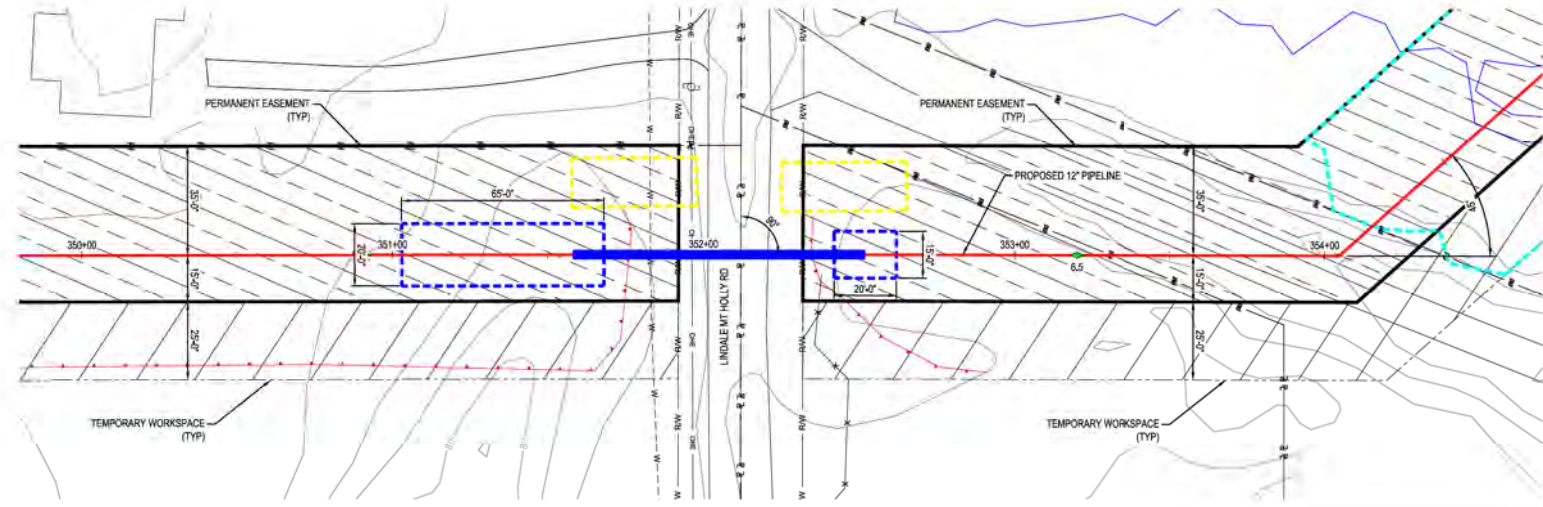
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CROSSING DETAIL 09
CLERMONT COUNTY, OHIO**

KELLOGG, OH
COPYRIGHT 2020

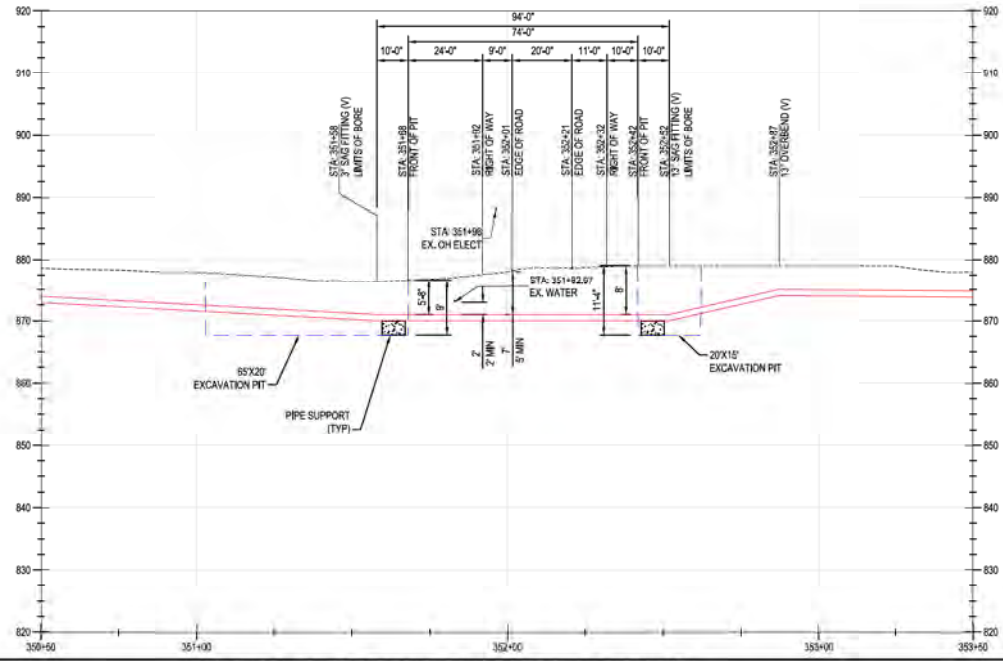
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DWG DATE	02/04/2021	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002109		
REVISION	A		

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



HORIZONTAL VIEW SCALE
 1" = 20'
VERTICAL VIEW SCALE
 1" = 10'

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REF. DWG(S) PNG-G-004-001000

NO.	DATE	REVISION/DESCRIPTION
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BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
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			CHECKER INITIALS JMP

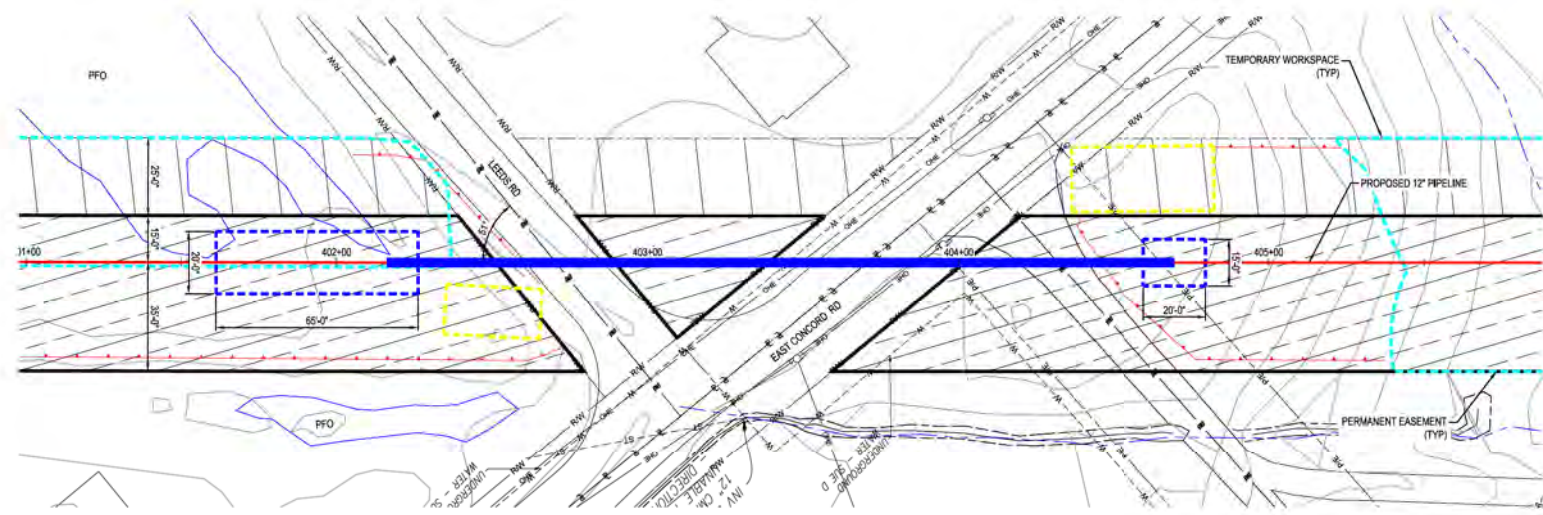
REGIONAL ENGINEER	DATE	INITIALS

**C367 PIPELINE
 CROSSING DETAIL 010
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH
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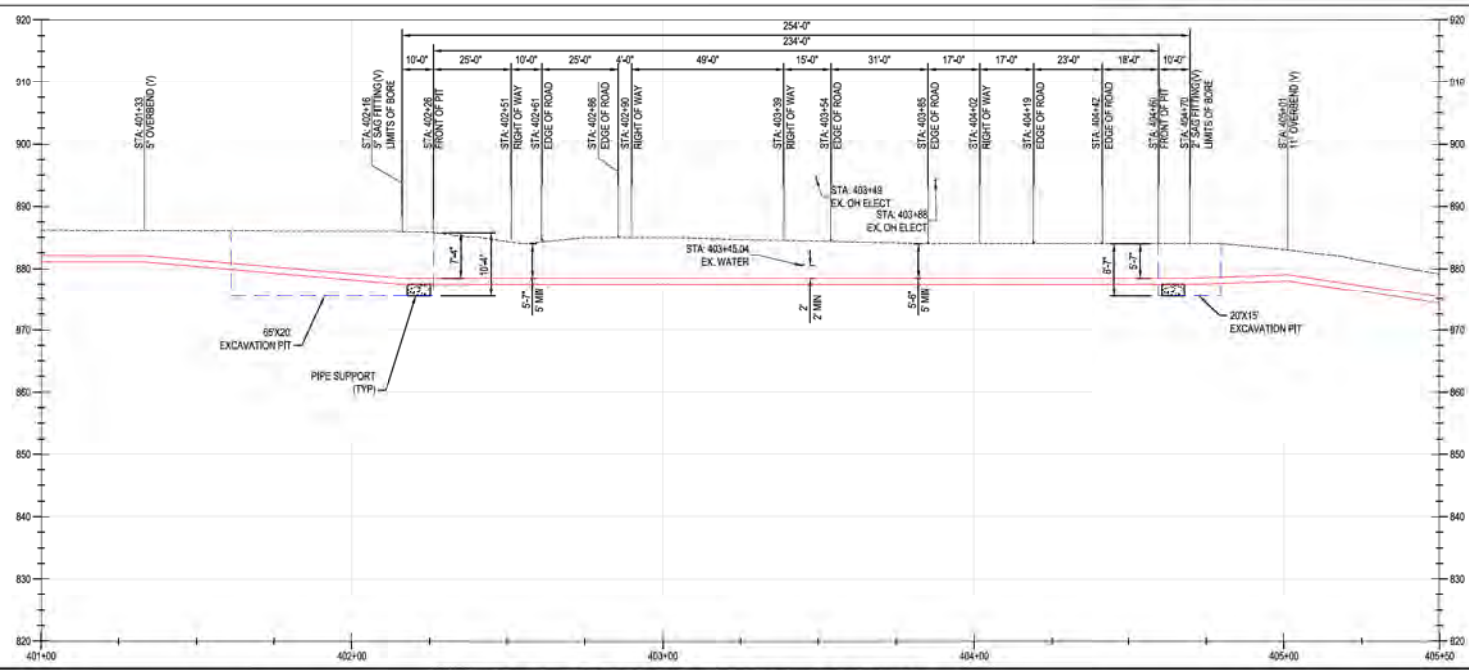
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/05/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002110	A

PROFESSIONAL ENGINEER STAMP

PLAN



PROFILE



HORIZONTAL VIEW SCALE
1" = 20'
VERTICAL VIEW SCALE
1" = 10'

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SHEET(S) 1 OF X DWG SCALE AS NOTED
DWG DATE 02/05/2021 SUPERSEDED
DRAWING NUMBER PNG -C-367-0002111 REVISION A
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NO.	DATE	REVISION/DESCRIPTION
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BY	CHK	APP'D	DESCRIPTION
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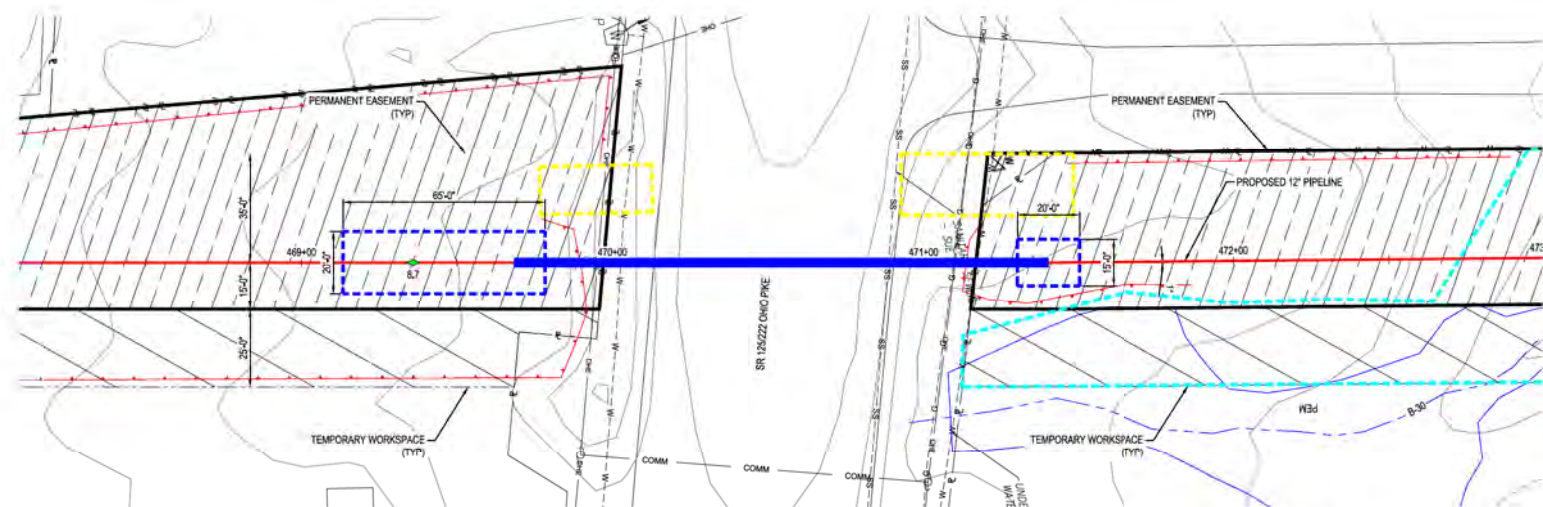
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MGR. TECH REC & STD	
PRINCIPAL ENGINEER	



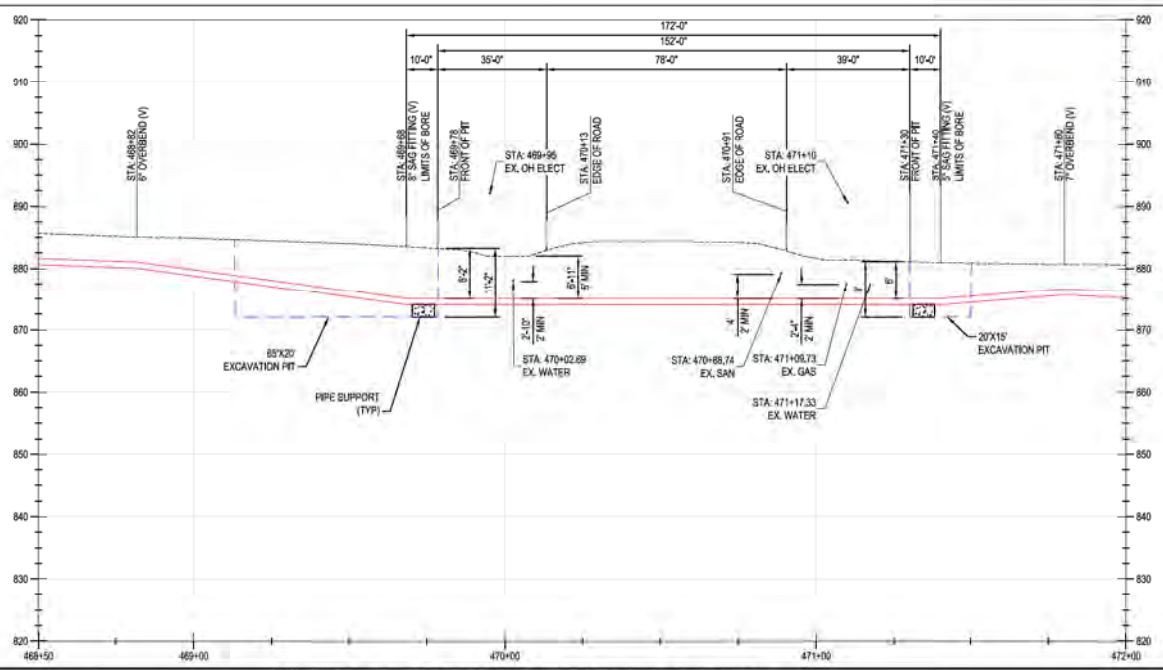
C367 PIPELINE
CROSSING DETAIL 11
CLERMONT COUNTY, OHIO
KELLOGG, OH

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PLAN



PROFILE



HORIZONTAL VIEW SCALE
 1" = 20'
VERTICAL VIEW SCALE
 1" = 10'

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REF. DWG(S) PNG-G-000-001000
 SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 02/05/2021 SUPERSEDED
 DRAWING NUMBER PNG -C-367-0002112 REVISION A
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NO.	DATE	REVISION/DESCRIPTION
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BY	CHK	APPD	DESCRIPTION
SFS	JMP	GNS	AREA CODE
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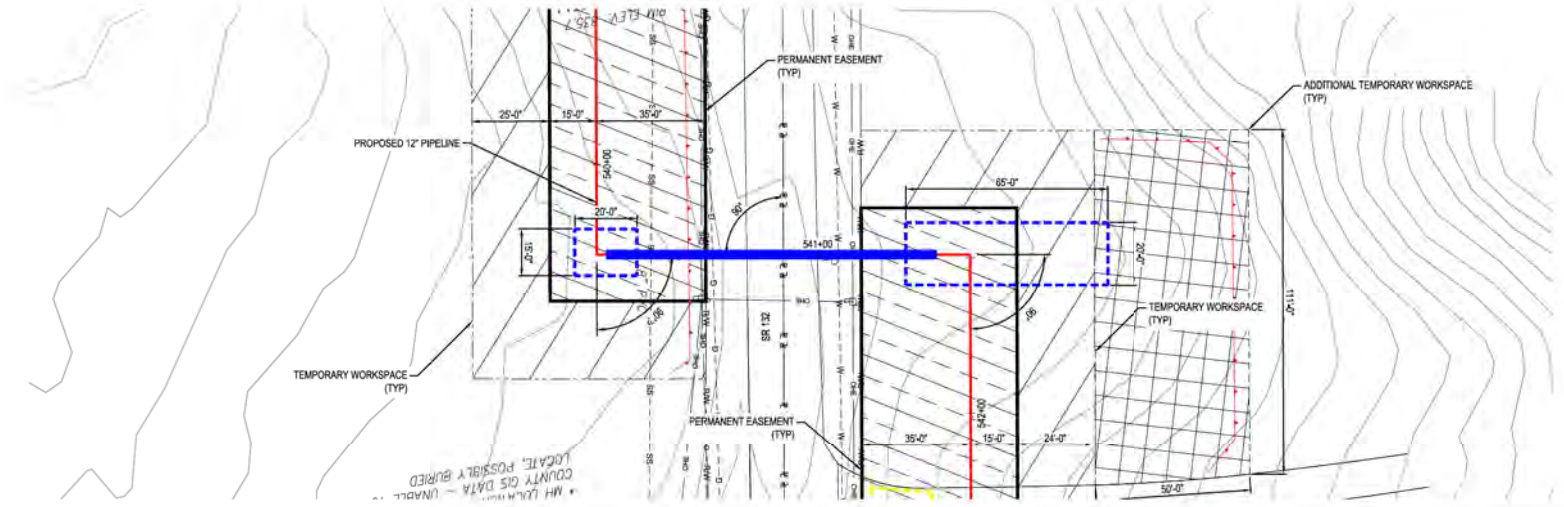
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MGR. TECH REC & STD	
PRINCIPAL ENGINEER	



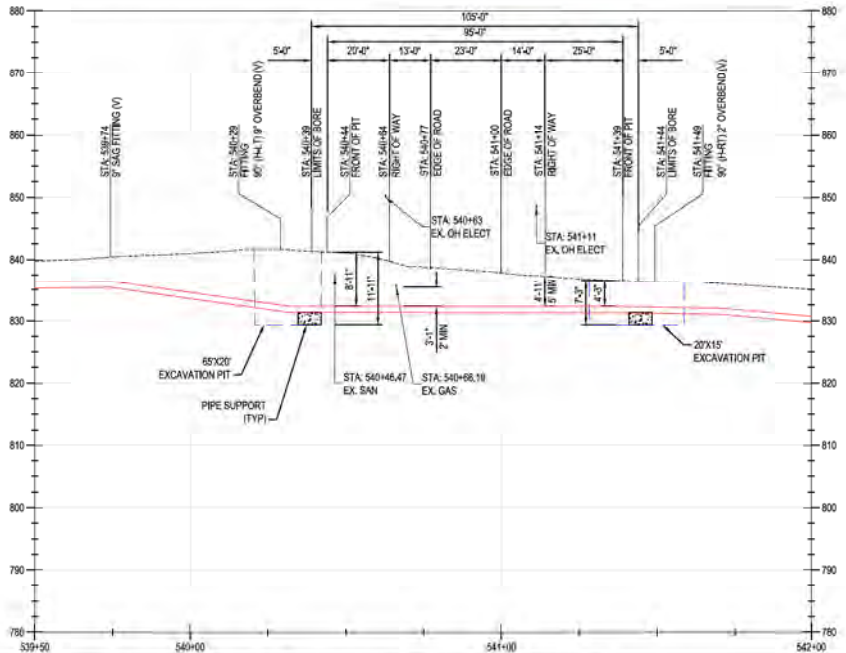
**C367 PIPELINE
 CROSSING DETAIL 12
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

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PLAN



PROFILE



HORIZONTAL VIEW SCALE

 HORIZONTAL SCALE: 1" = 20'
VERTICAL VIEW SCALE

 VERTICAL SCALE: 1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1902
			PROJECT NUMBER AW1902
			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

APPROVALS		REGIONAL
DATE	INITIALS	MANAGER
DATE	INITIALS	TECH
DATE	INITIALS	REC & STD
DATE	INITIALS	PRINCIPAL ENGINEER



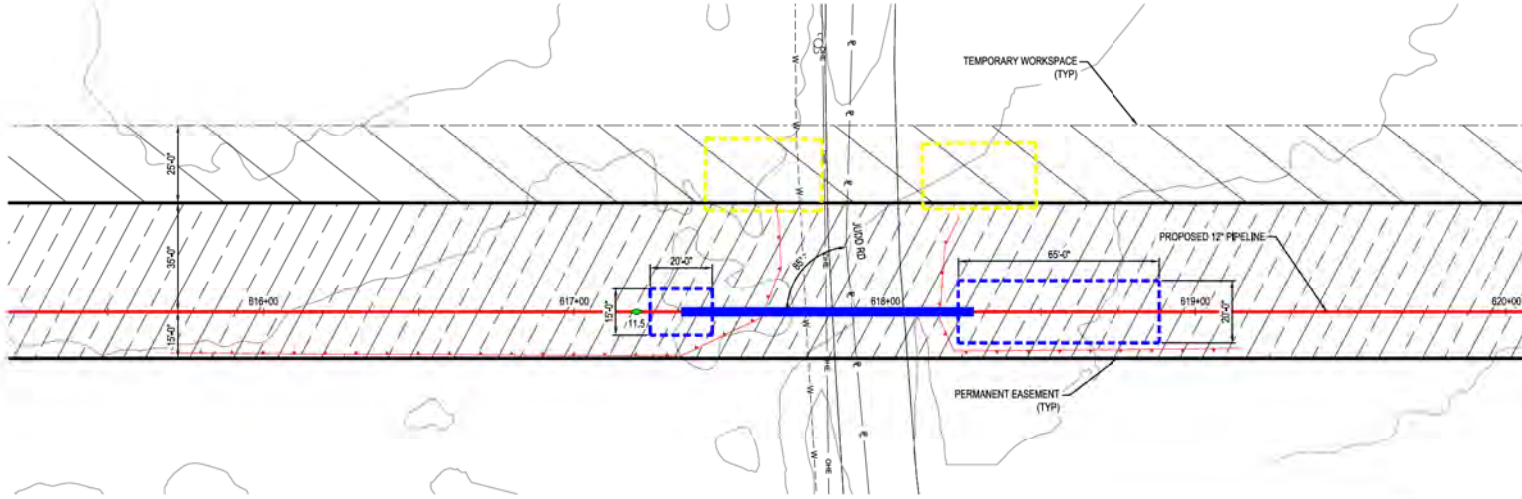
**C367 PIPELINE
 CROSSING DETAIL 13
 CLERMONT COUNTY, OHIO**
 KELLOGG, OH

SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/05/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002113	A

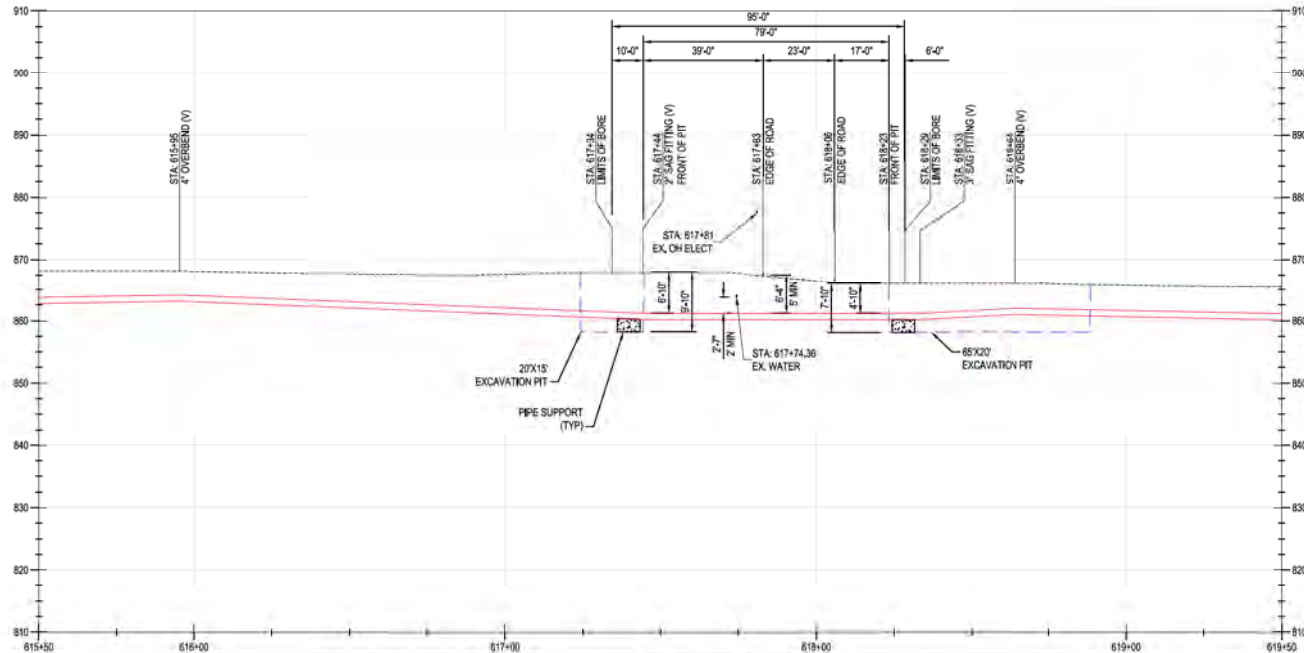
PROFESSIONAL ENGINEER STAMP



PLAN



PROFILE



HORIZONTAL VIEW SCALE
 1" = 20'
 VERTICAL VIEW SCALE
 1" = 10'

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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION
A	02-19-2021	60% DESIGN FOR OPSB

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	GNS	AREA CODE
			ACCOUNT NUMBER AW1982
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			DRAWING BY SFS
			STATION ID
			CHECKER INITIALS JMP

REGIONAL ENGINEER	DATE	INITIALS
MGR. TECH. REC. & STD.	DATE	INITIALS
PRINCIPAL ENGINEER	DATE	INITIALS

**C367 PIPELINE
 CROSSING DETAIL 14
 CLERMONT COUNTY, OHIO**
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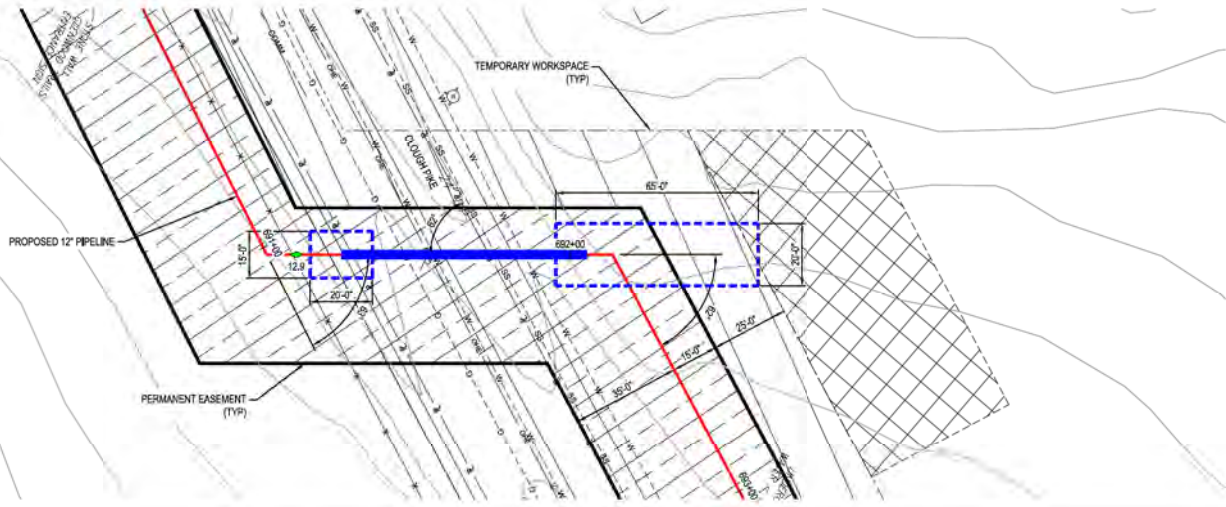
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DWG DATE 02/05/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002114	A

PROFESSIONAL ENGINEER STAMP

PLAN

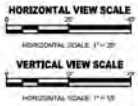
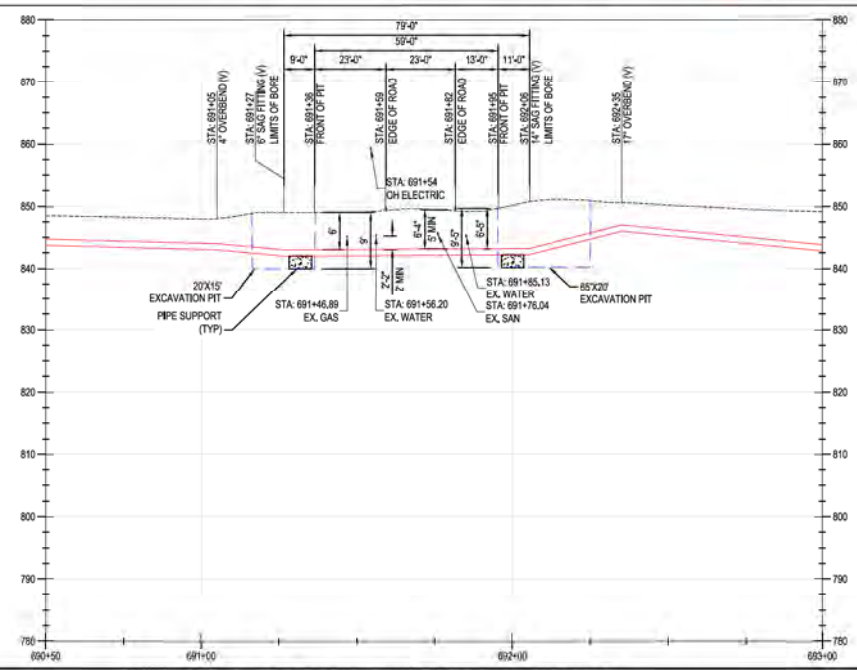


3 UTILITY ESMAT
11956 PG 2



PROFILE

NOTE:
CONTRACTOR MAY PROPOSE CONVENIENCE
BORES, ANY CHANGES IN INSTALLATION METHOD
FROM THAT SHOWN ON THE DRAWINGS SHALL BE
APPROVED IN ADVANCE BY DUKE.



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REF. DWG(S) PNG-G-000-001000

NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APP'D
A	02-19-2021	60% DESIGN FOR OPSB	SFS	JMP	GNS

DESCRIPTION	DATE	INITIALS
APPROVALS		
REGIONAL ENGINEER		
MGR. TECH. REC. & STD.		
PRINCIPAL ENGINEER		

PROJECT NUMBER: AW1902
 DRAWING BY: SFS
 CHECKER INITIALS: JMP

REGIONAL ENGINEER: [Signature]
 MGR. TECH. REC. & STD.: [Signature]
 PRINCIPAL ENGINEER: [Signature]

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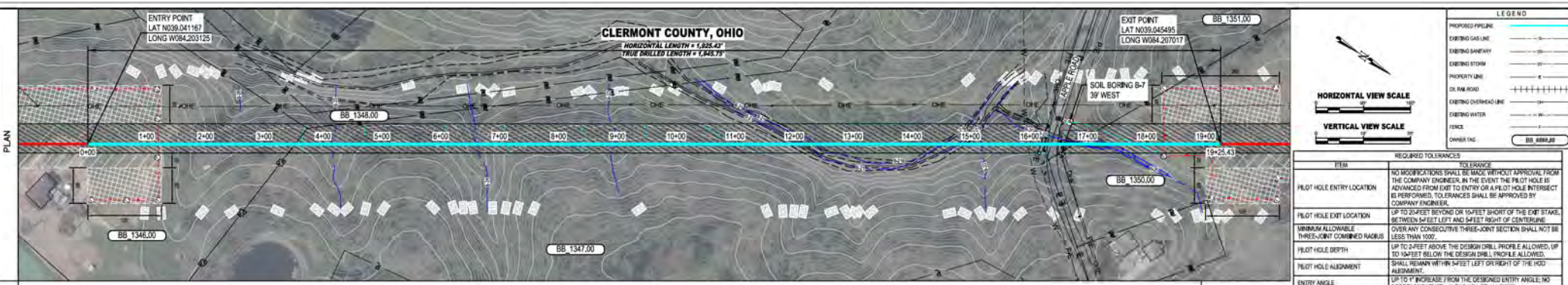
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 CROSSING DETAIL 15
 CLERMONT COUNTY, OHIO**

KELLOGG, OH

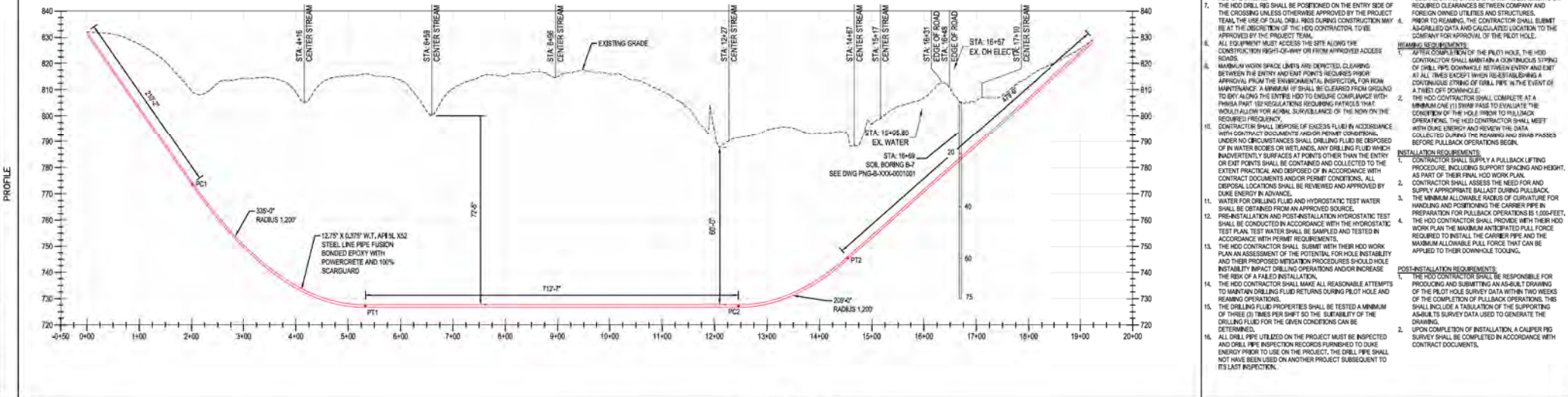
SHEET(S) 1 OF X	DWG SCALE AS NOTED
DWG DATE 02/05/2021	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-0002115	A

PROFESSIONAL ENGINEER STAMP

CNKL00000007



ITEM	REQUIRED TOLERANCES	ALLOWANCE
PILOT HOLE ENTRY LOCATION	NO MODIFICATIONS SHALL BE MADE WITHOUT APPROVAL FROM THE COMPANY ENGINEER. IN THE EVENT THE PILOT HOLE IS ADVANCED FROM EXIT TO ENTRY OR A PILOT HOLE INTEREST IS PERFORMED, TO SPACES SHALL BE APPROVED BY COMPANY ENGINEER.	
PILOT HOLE EXIT LOCATION	UP TO 2 FEET BEYOND OR 1/4 FEET SHORT OF THE EXIT STAKE, BETWEEN 1/4 FEET LEFT AND 1/4 FEET RIGHT OF CENTERLINE.	
MINIMUM ALLOWABLE THREE-JOINT SECTION SHALL NOT BE LESS THAN 100'		
PILOT HOLE DEPTH	UP TO 2 FEET ABOVE THE DESIGN DRILL PROFILE ALLOWED, UP TO 1/4 FEET BELOW THE DESIGN DRILL PROFILE ALLOWED.	
PILOT HOLE ALIGNMENT	SHALL REMAIN WITHIN 1/4 FEET LEFT OR RIGHT OF THE HDD ALIGNMENT.	
ENTRY ANGLE	UP TO 1° INCREASE FROM THE DESIGNED ENTRY ANGLE; NO DECREASE IN ENTRY ANGLE WILL BE ALLOWED.	
EXIT ANGLE	NO INCREASE FROM THE DESIGNED EXIT ANGLE; UP TO 2° DECREASE IN EXIT ANGLE WILL BE ALLOWED.	



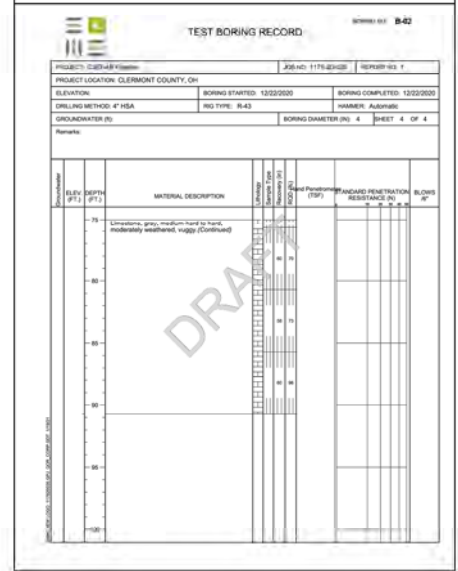
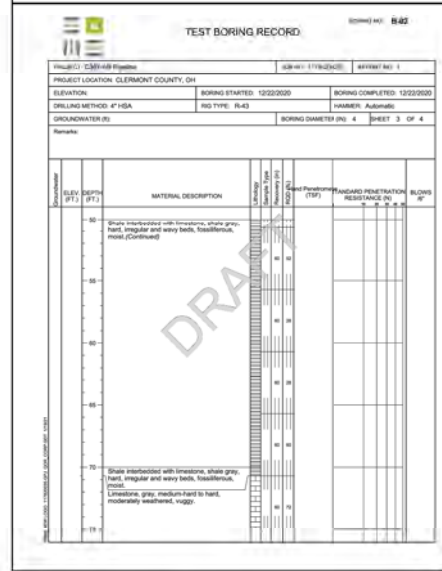
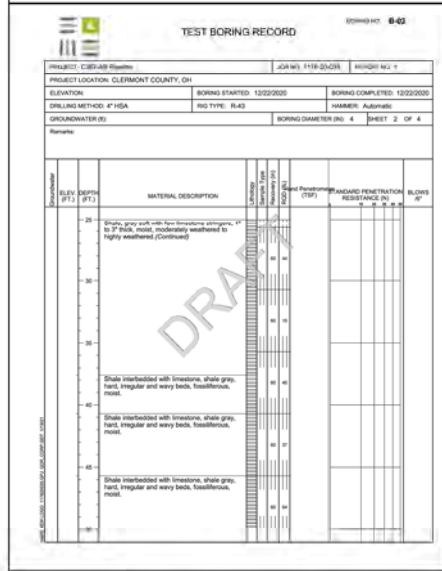
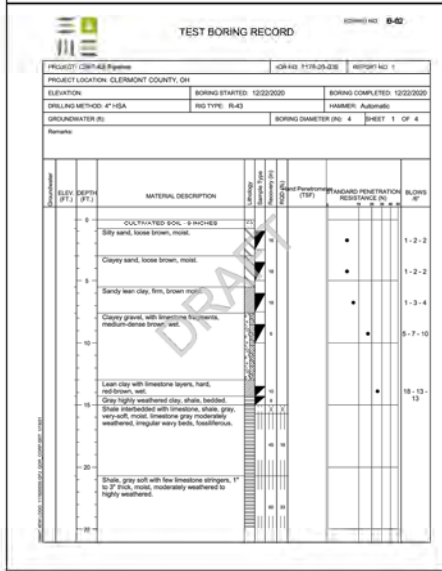
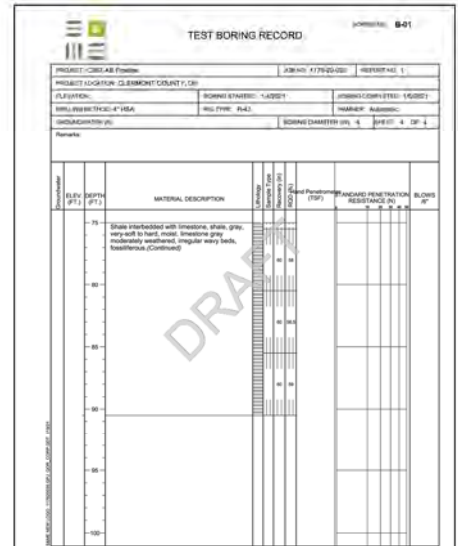
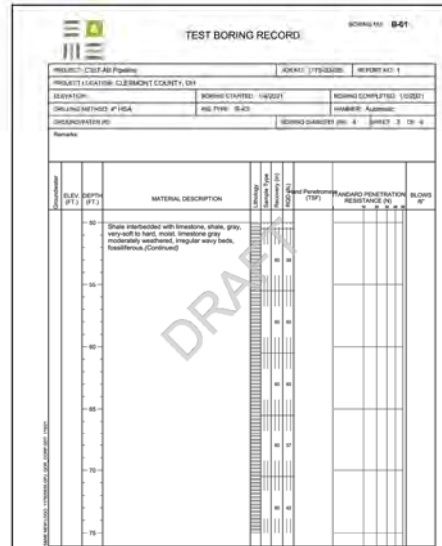
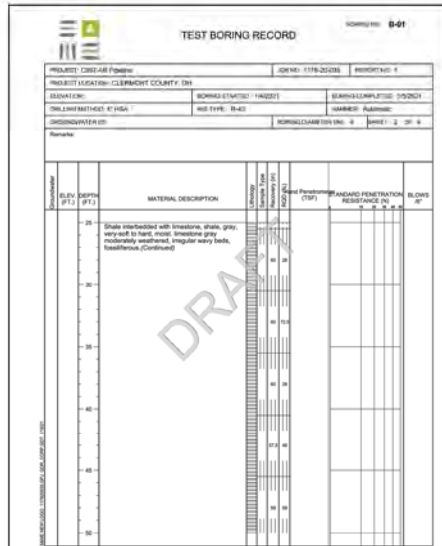
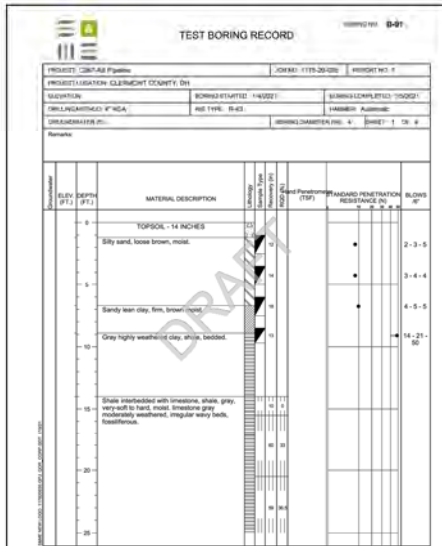
1925 (2)
CLASS 4 / MDP 535 PSIG

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	APPROVALS
A	02-19-2021	80% DESIGN FOR OPS&M	SFS	JMP	AREA CODE PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	AW1982 AW1982 SFS JMP

C367 PIPELINE
APPLE ROAD HDD ALIGNMENT SHEET
CLERMONT COUNTY, OHIO
 KELLOGG, OH

REF. DWG(S) PNG-G-XXX-0001000
 SHEET(S) 1 OF X DWG SCALE AS NOTED
 DWG DATE 02/11/2021 SUPERSEDED
 DRAWING NUMBER PNG -C-367-0002200 REVISION A
 CHECKLOGG007



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NO.	DATE	REVISION DESCRIPTION	BY	CHK	APPROVALS	DESCRIPTION	DATE	APPROVALS
A	02/18/2021	60% DESIGN FOR OPS	SFS	JMP	CNS	AREA CODE ACCOUNT NUMBER: AW1582 PROJECT NUMBER: AW1582 DRAWING BY: SFS STATION ID: CHECKER INITIALS: JMP		

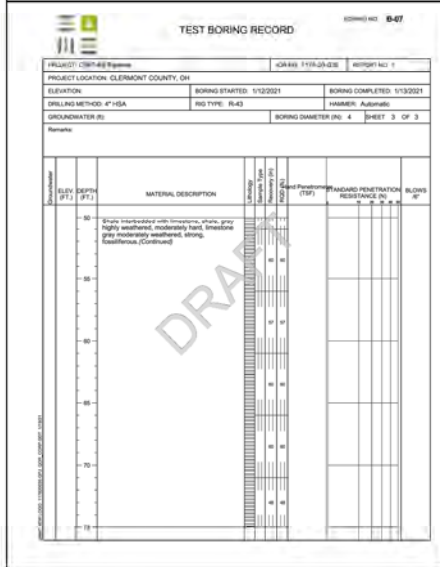
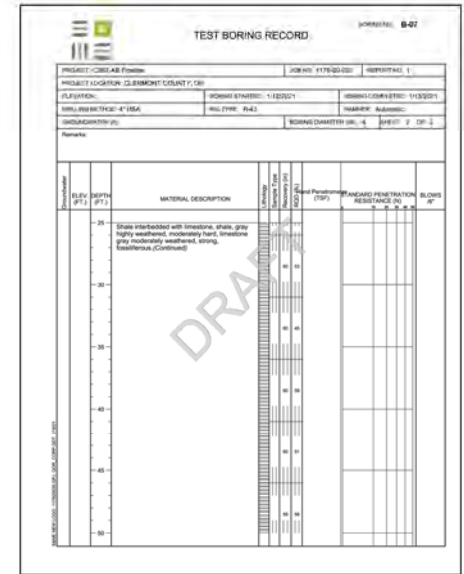
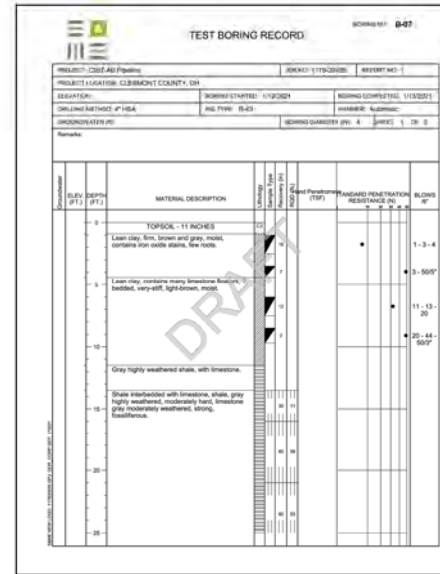
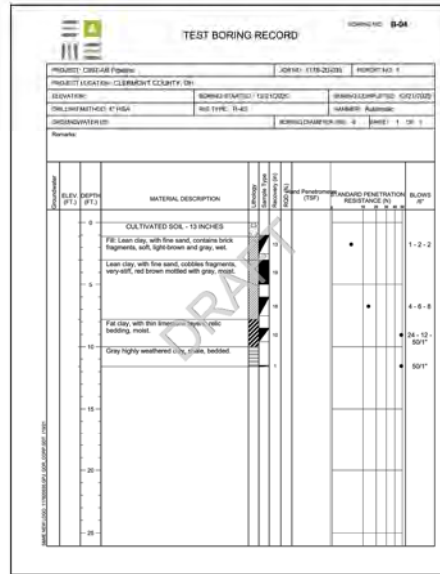
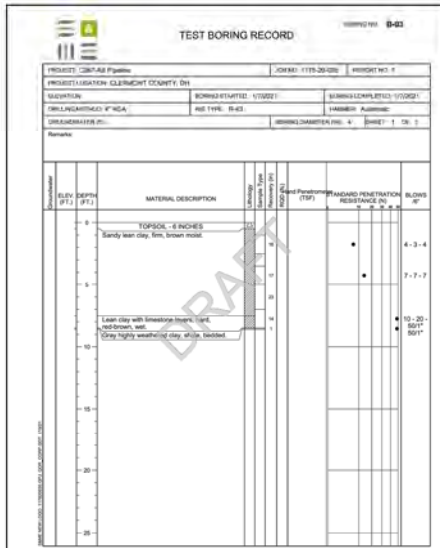
PROFESSIONAL ENGINEER
 BURNS & MCDONNELL
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 STATE LICENSE # CCA. 01557

DUKE ENERGY Piedmont Natural Gas

C367 PIPELINE
 GEOTECH BORE LOG 1
 CLERMONT COUNTY, OH
 KELLOGG, OH

SHEET(S) X OF X DWG SCALE AS NOTED
 DWG DATE 01/20/2021 SUPERSEDED
 DRAWING NUMBER REVISION
PNG -B-367-0002001 A
 KHELLOGG.C367

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NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPR	DESCRIPTION	APPROVALS
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						PROJECT NUMBER: AW1582	
						DRAWING BY: SFS	
						STATION ID:	
						CHECKER INITIALS: JMP	

C367 PIPELINE
GEOTECH BORE LOG 2
CLERMONT COUNTY, OH
 KELLOGG, OH
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SHEET(S) X OF X	DWG SCALE	AS NOTED
DWG DATE: 01/20/2021	SUPERSEDED	
DRAWING NUMBER	REVISION	
PNG -B-367-000202	A	
KELLOGG/C367		

PROFESSIONAL ENGINEER STAMP

INSTALLATION:

1. ASHTO #2 (1.5-2.5 INCH) STONE OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT A MINIMUM 6-INCH THICKNESS FOR LIGHT DUTY USE OR AT LEAST 10-INCH THICKNESS FOR HEAVY-DUTY USE.
2. THE ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS (30-FT MINIMUM ON A SINGLE RESIDENTIAL LOT; 70-FT MINIMUM ELSEWHERE).
3. A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 lbs.
MINIMUM PUNCTURE STRENGTH	80 lbs.
MINIMUM TEAR STRENGTH	50 lbs.
MINIMUM BURST STRENGTH	320 lbs.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EQS < 0.075 mm
PERMEABILITY	1X10⁻¹⁰ cm/sec
4. IF NEEDED, A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OUT ONTO PAVED SURFACES.
5. IF NEEDED, A WATER BAR SHALL BE CONSTRUCTED TO PREVENT SURFACE WATER FROM FLOWING ALONG THE LENGTH OF THE ENTRANCE UT ONTO PAVED SURFACE.

MAINTENANCE:

1. TOP DRESS WITH ADDITIONAL STONE AS SITE CONDITIONS DEMAND.
2. REMOVE MUD TRACKED ONTO PUBLIC STREETS IMMEDIATELY VIA SCRAPING OR SWEEPING.
3. ENSURE THE ENDS OF A TEMPORARY CULVERT PIPE (IF UTILIZED) ARE NOT BLOCKED AND THAT THE PIPE IS FREE OF DEBRIS THROUGHOUT.

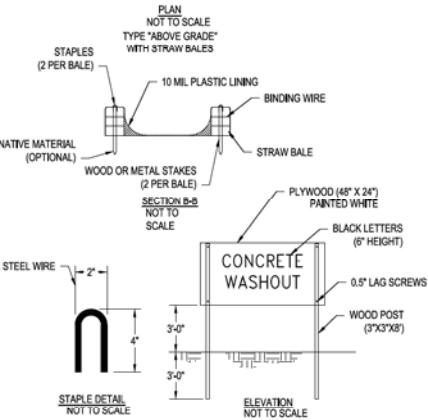
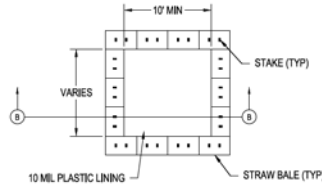
REMOVAL:

1. THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.
2. PULL OUT ALL CONSTRUCTION ENTRANCE MATERIAL AND PROPERLY DISPOSE OF OFF-SITE. STONE CAN BE BLENDED INTO THE SURROUNDING LANDSCAPE AS SITE CONDITIONS ALLOW.
3. RE-GRADE THE AREA AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

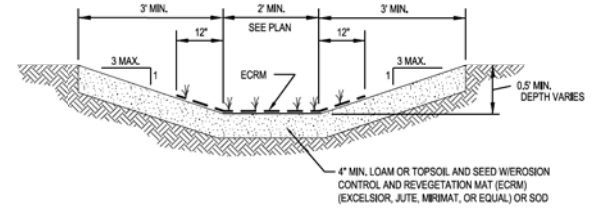
NOTES:

1. CONCRETE WASHOUT WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WASHOUT CONVEYANCE.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED ADJACENT TO THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. WASHOUT PIT MUST BE INSPECTED FREQUENTLY TO ENSURE LINER IS INTACT.
4. ONCE 75% OF ORIGINAL PIT VOLUME IS FILLED OR LINER IS TORN, MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF ONCE HARDENED. LINER SHALL BE REPLACED IF TORN.

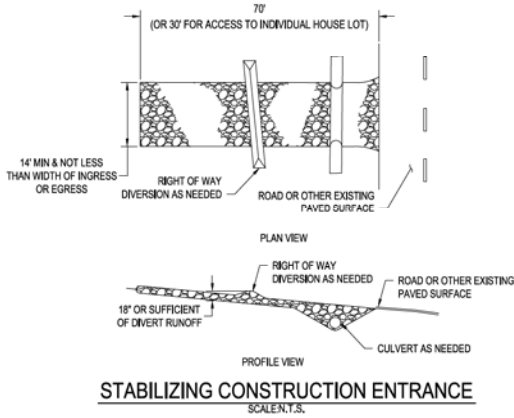
MINIMUM TENSILE STRENGTH	200 lbs.
MINIMUM PUNCTURE STRENGTH	80 lbs.
MINIMUM TEAR STRENGTH	50 lbs.
MINIMUM BURST STRENGTH	320 lbs.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EQS < 0.075 mm
PERMEABILITY	1X10⁻¹⁰ cm/sec



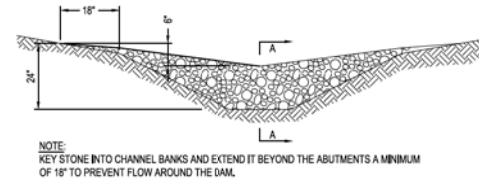
CONCRETE WASHOUT AREAS
SCALE: N.T.S.



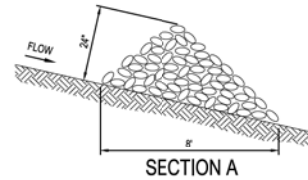
SWALE CROSS SECTION
SCALE: N.T.S.



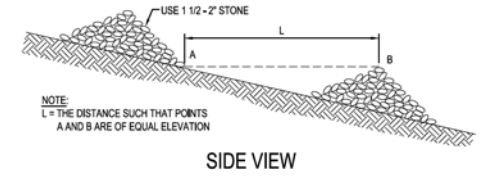
STABILIZING CONSTRUCTION ENTRANCE
SCALE: N.T.S.



VIEW LOOKING UPSTREAM



SECTION A



SIDE VIEW

ROCK DITCH CHECK
SCALE: N.T.S.

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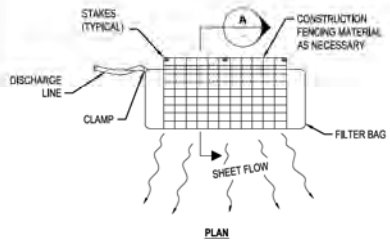
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B	10-10-2021	00% DESIGN FOR OF/PSL	SFS	JMP	CNS: ACCOUNT NUMBER	MGR TECH REC & STD
					PROJECT NUMBER	AW1982
					DRAWING BY	SFS
					STATION ID	
					CHECKER INITIALS	JMP



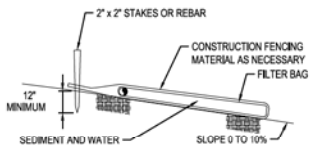
C367 PIPELINE
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REF. DWG(S):	PNG-G-367-002001		
SHEET(S)	3 OF 5	DWG SCALE	AS NOTED
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-002500		REVISION
			B

PROFESSIONAL ENGINEER STAMP



PLAN



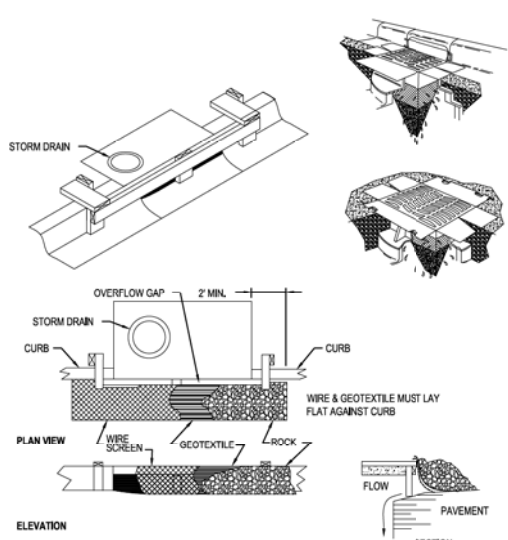
SECTION "A-A"

TYPICAL GEOTEXTILE FILTER BAG FOR DEWATERING

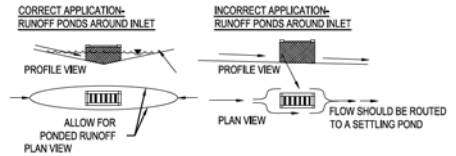
SCALE: 1/2"=1'-0"

NOTES:

1. INSTALL A DEWATERING GEOTEXTILE FILTER BAG AS DIRECTED BY THE COMPANY'S INSPECTOR TO PREVENT THE FLOW OF HEAVILY SILT LADEN WATER INTO WATERSBODIES OR WETLANDS.
2. DISCHARGE SITE SHALL BE WELL VEGETATED AND THE TOPOGRAPHY OF THE SITE SUCH THAT WATER WILL FLOW AWAY FROM ANY WORK AREAS, THE AREA DOWN SLOPE FROM THE DEWATERING SITE MUST BE REASONABLY FLANK OR STABILIZED BY VEGETATION OR OTHER MEANS TO ALLOW THE FILTERED WATER TO CONTINUE AS SHEET FLOW.
3. TO ATTACH THE DISCHARGE HOSE, CUT A CORNER OF THE BAG, INSERT DISCHARGE HOSE, AND SECURE THE HOSE TO THE BAG.
4. A SINGLE FILTER BAG SHOULD NOT BE USED FOR FLOWS GREATER THAN 600 GALLONS PER MINUTE.
5. REPLACE FILTER BAG BEFORE IT IS COMPLETELY FILLED WITH SEDIMENT. MONITOR DISCHARGE TO AVOID OVER PRESSURING DUE TO PLUGGING, WHICH MAY RESULT IN RUPTURE.
6. DISPOSE OF USED FILTER BAG AND SEDIMENT AT A SITE APPROVED BY THE COMPANY'S INSPECTOR.

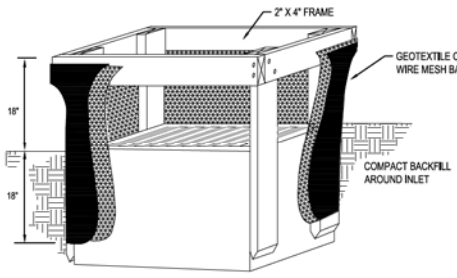


ELEVATION



INLET PROTECTION FOR CURB DRAINS & YARD DRAINS SITUATED ON A SLOPE:

- INSTALLATION:**
1. REMOVE THE GRATE FROM THE CATCH BASIN.
 2. INSERT THE FILTRATION SACK INTO OPENING OF CATCH BASIN. SOME PRODUCTS REQUIRE THE FILTRATION SACK BE SLIPPED OVER THE CATCH BASIN GRATE FIRST.
 3. REINSERT GRATE INTO CATCH BASIN WHILE ENSURING ALL NECESSARY SUPPORT STRAPS TO PROVIDE SUPPORT AND ENSURE THE FILTRATION SACK DOES NOT FALL INTO CATCH BASIN AS IT FILLS WITH SEDIMENT.
- MAINTENANCE:**
1. THE FILTRATION SACK MUST BE EMPTIED WHEN IT IS 1/2RD FULL OF SEDIMENT AND DEBRIS. SACKS ARE TYPICAL MANUFACTURED WITH LIFTING STRAPS AND DUMPING STRAPS.
 2. TO EMPTY THE SACK, REMOVE THE GRADE, LIFT THE SACK OUT OF THE CATCH BASIN VIA THE LIFTING STRAPS AND HAUL IT TO AN APPROPRIATE AREA. TURN IT INSIDE OUT WITH THE DUMPING STRAPS PROVIDED.
 3. THE FILTRATION SACK MUST BE REPLACED IF IT IS TORN, OTHERWISE THE SAME SACK CAN BE USED MULTIPLE TIMES.
 4. THE CONTRACTOR IS REQUIRED TO HAVE STAGED REDUNDANT CONTROLS ONSITE IN THE EVENT REPLACEMENTS ARE NEEDED.
- INSPECTION:**
1. INLET PROTECTION MEASURES MUST BE INSPECTED AT LEAST 12-HOURS PRIOR TO RAIN EVENTS, IN ADDITION TO THE WEEKLY AND POST-RAIN EVENT INSPECTIONS. NON-FUNCTIONAL DEVICES MUST BE REPLACED.
- REMOVAL:**
1. PULL OUT ALL INLET PROTECTION MATERIAL AND PROPERLY DISPOSE OF OFF-SITE.
 2. RE-GRADE AREA WHERE ACCUMULATED SEDIMENT HAS BEEN PLACED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.
- THE FOLLOWING DIAGRAMS PROVIDE A GENERAL IDEA OF HOW TO INSTALL AND MAINTAIN A VARIETY OF MANUFACTURED STORM DRAIN INLET PROTECTION PRACTICES. BE SURE TO IMPLEMENT FILTRATION SACKS THAT ARE APPROPRIATE FOR EITHER CURB INLETS OR FOR YARD DRAIN INLETS. MANUFACTURER'S SPECIFICATIONS FOR THE PRODUCT OF CHOICE SHOULD BE FOLLOWED.



SECTION

DROP INLET PROTECTION

SCALE: 1/2"=1'-0"

INSTALLATION:

1. CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
2. CONSTRUCT WOODEN FRAME FROM 2"x4" LUMBER. DRIVE POSTS 1" INTO THE GROUND AT EACH CORNER DIRECTLY AGAINST THE CONCRETE BOX AND ASSEMBLE THE TOP FRAME WITH AN OVERLAP JOINT SHOWN BELOW. THE TOP FRAME SHALL BE SET AT AN ELEVATION THAT DOES NOT CAUSE PONDED WATER TO BACKUP INTO UNWANTED AREAS.
3. THE WIRE MESH AND GEOTEXTILE SHALL BE TIGHTLY STRETCHED AND FASTENED TO THE FRAME.
4. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
5. BACKFILL SHALL BE PLACED IN THE 18" TRENCH AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE ELEVATION OF THE TOP OF THE GRATE IS REACHED.

MAINTENANCE:

1. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE PRACTICE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE INLET VIA SURFACE RUNOFF.
2. REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
3. AREA WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT)

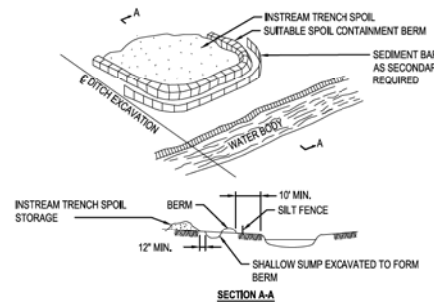
REMOVAL:

1. PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.
2. RE-GRADE AREA SEDIMENT HAS ACCUMULATED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

ALTERNATIVE MANUFACTURED YARD DRAIN INLET PROTECTION PRODUCTS ARE AVAILABLE AND CAN BE USED, SUBJECT TO PRIOR APPROVED BY THE COMMUNITY ENGINEER.

CURB INLET PROTECTION

SCALE: 1/2"=1'-0"



SECTION A-A

TYPICAL TEMPORARY SOIL CONTAINMENT BERM FOR WATERBODY TRENCH SPOILS

SCALE: 1/2"=1'-0"

NOTES:

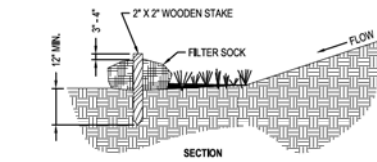
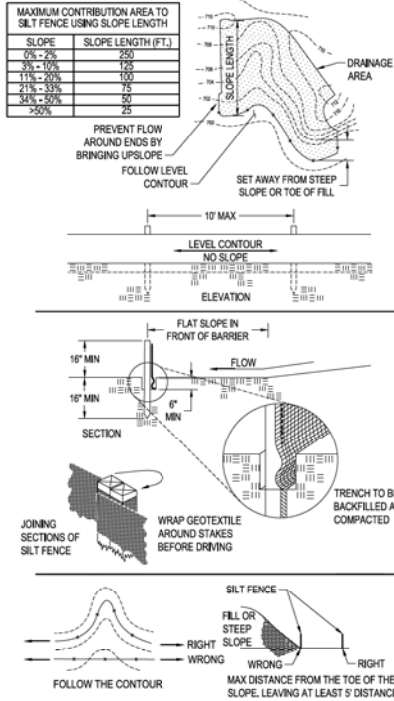
1. SOIL CONTAINMENT BERMS ARE TO BE USED WHERE INSTREAM TRENCH SPOIL COULD REENTER THE WATERCOURSE DIRECTLY OR INDIRECTLY AND WITH SIMULTANEOUS UTILIZATION OF SEDIMENT BARRIERS IF REQUIRED.
2. MATERIAL USED FOR THE CONTAINMENT BERM SHOULD BE A MINIMUM OF 10 FT. FROM THE WATERS EDGE. IT SHOULD BE KEPT TO A HEIGHT WHICH REMAINS STABLE DURING THE CONSTRUCTION PERIOD.
3. CARE SHOULD BE TAKEN THAT THE SPOIL PILE DOES NOT OVERTOP THE CONTAINMENT BERM.
4. THE CONTAINMENT BERM SHOULD BE DISMANTLED AND THE SITE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE WATER CROSSING.
5. WHERE POSSIBLE, RIPARIAN VEGETATION SHALL BE LEFT IN PLACE.
6. STAGED MOVEMENT OF INSTREAM SPOIL MAY BE REQUIRED IF QUANTITIES ARE EXCESSIVE.
7. CARE AND ATTENTION MUST BE TAKEN TO ENSURE SPOIL CONTAINMENT BERMS ARE MAINTAINED.
8. FULL CONSIDERATION FOR OVERALL SLOPE STABILITY IS REQUIRED WHEN SELECTING A SPOIL CONTAINMENT LOCATION.

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- INSTALLATION:**
- CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
 - PLACE CONTINUOUS LENGTHS OF SILT FENCE ALONG A CONSISTENT CONTOUR SO AS TO PREVENT THE CONCENTRATION OF RUNOFF AT LOW POINTS IN THE FENCE.
 - TO PREVENT FLOW AROUND ENDS, EXTEND EACH OF A CONTINUOUS LENGTH OF SILT FENCE UPSLOPE 90° TO THE CONTOUR) SO THE ENDS ARE AT A HIGHER ELEVATION OR 20-FEET IN HORIZONTAL DISTANCE, WHICHEVER IS ACHIEVED FIRST.
 - AT A MINIMUM, THE BOTTOM 8-INCHES OF THE SILT FENCE MATERIAL MUST BE PLACED IN A TRENCH (MINIMUM 6-INCH DEPTH) THAT IS CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE. THE TRENCH SHALL NOT BE CONSTRUCTED WITH THE TILT BLADE OF A BULLDOZER.
 - THE TRENCH MUST BE BACKFILLED WITH SOIL AND PROPERLY COMPACTED. WHEN AGGRESSIVELY PULLED UPWARD BETWEEN TWO CONSECUTIVE STAKES, THE MATERIAL SHOULD NOT PULL OUT OF THE GROUND.
 - STAKES (MIN. 32-INCH LENGTH, 2"X2" HARDWOOD OF GOOD QUALITY) MUST BE PALCED ON THE DOWNSLOPE SIDE OF THE SILT FENCE MATERIAL.
 - SILT FENCE MATERIAL MUST BE PULLED TIGHT BETWEEN CONSECUTIVE STAKES TO ENSURE THE FENCE DOES NOT SAC.
 - WHEN IT IS NECESSARY TO JOIN TWO SEPARATE LENGTHS OF SILT FENCE TO FORM A CONTINUOUS RUN, THE END OF TWO SEPARATE LENGTHS MUST BE JOINED TOGETHER BY FIRST OVERLAPPING THEM AND THEN TWISTING THEM TOGETHER AT LEAST 180° PRIOR TO DRIVING THE STAKES INTO THE GROUND.
 - GRADES IN EXCESS OF 10% REQUIRE SILT FENCE TO BE "J-HOOKED" AS DESCRIBED IN THE SWPPP DOCUMENT.

- MAINTENANCE:**
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3RD THE HEIGHT OF THE SILT FENCE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE SILT FENCE VIA SURFACE RUNOFF.
 - REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
 - AREAS WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT).

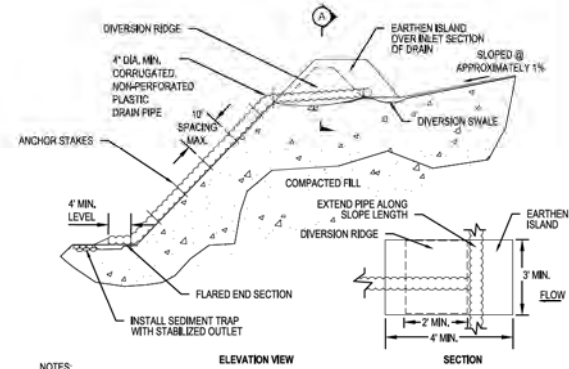
- REMOVAL:**
- PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.
 - RE-GRADE AREA WHERE SEDIMENT HAS ACCUMULATED AS NECESSARY AND ESTABLISH VEGETATION IN ANY RESULTING DISTURBED AREAS.



- NOTES:**
- ALL FILTER SOCK MUST BE 12-INCH COMPOST FILTER SOCK OR THE ENGINEERED EQUIVALENT.
 - MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
 - FILTER SOCKS SHALL BE 3 OR 5 MIL. CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

- INSTALLATION:**
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
 - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
 - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- MAINTENANCE:**
- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
 - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
 - REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

FILTER SOCK
SCALE: N.T.S.



- NOTES:**
- THE SLOPE DRAIN SHALL BE CONSTRUCTED/LENGTHENED WITH THE CONSTRUCTION OF THE FILL SLOPE. AS A RESULT, INLET ELEVATIONS WILL VARY ACCORDING TO GRADE ELEVATIONS AT THE TIME OF CONSTRUCTION.
 - INSPECT SLOPE DRAIN AND SUPPORTING DIVERSIONS AFTER EVERY RAINFALL EVENT AND MAKE NECESSARY REPAIRS FOR PROPER OPERATION OF THE SYSTEM.
 - UPON PROJECT COMPLETION, REMOVE THE SLOPE DRAIN AND PROPERLY STABILIZE ALL DISTURBED AREAS.

TEMPORARY SLOPE DRAIN
SCALE: N.T.S.

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BY	CHK	APPV	DESCRIPTION
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SFS	JMP	CNS	ACCOUNT NUMBER

PROJECT NUMBER	DATE	INITIALS	APPROVALS
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PROJECT NUMBER	DATE	INITIALS	APPROVALS
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SHEET(S) 3 OF 5 DWG SCALE AS NOTED

DWG DATE 10/12/2020 SUPERSEDED

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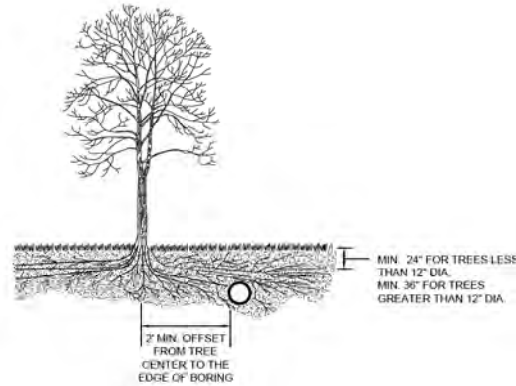
REVISION

PNG -C-367-0002502 B

08/11/2020

PRESERVATION OF NATURAL VEGETATION

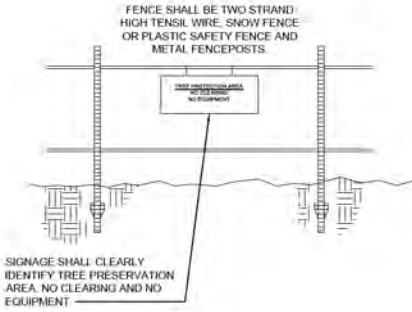
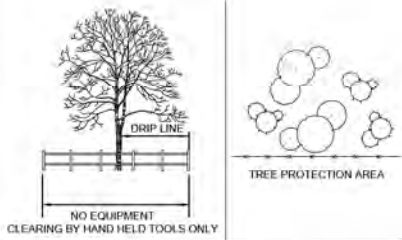
1. AREAS WHERE NATURAL VEGETATION IS TO BE PRESERVED, INCLUDING TREES, SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS
2. ACCEPTABLE FENCE MATERIALS INCLUDE PLASTIC FENCE OR SNOW FENCE ANCHORED TO METAL FENCE POSTS.
3. SIGNAGE SHALL CLEARLY IDENTIFY THE PROTECTION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
4. FENCE SHALL REMAIN AROUND PROTECTION AREAS UNTIL AFTER FINAL GRADING HAS BEEN COMPLETED.
5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT



CROSS SECTION

TREE PRESERVATION AREA DURING BORING

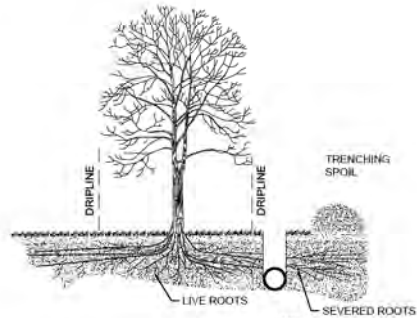
SCALE: N.T.S.



CROSS SECTION

TREE PRESERVATION AREA

SCALE: N.T.S.



CROSS SECTION

NOTE:
1. SPOIL TO BE LOCATED OUTSIDE THE DRIFLINE

TREE PRESERVATION AREA BEFORE TRENCHING

SCALE: N.T.S.

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REV.	DATE	REVISION/DESCRIPTION
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B	10-10-2021	100% DESIGN FOR OP&SE

BY	CHK	APP'D	DESCRIPTION
SFS	JMP	CNS	AREA CODE
SFS	JMP	CNS	ACCOUNT NUMBER
			PROJECT NUMBER
			DRAWING BY
			STATION ID
			CHECKER INITIALS

APPROVALS	
DATE	INITIALS
DATE	INITIALS
DATE	INITIALS

REGIONAL MANAGER

MGR. TECH REC & STD

PRINCIPAL ENGINEER

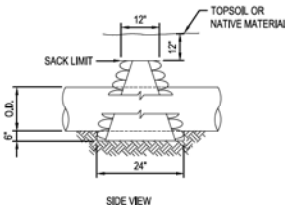
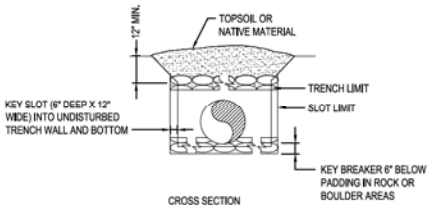
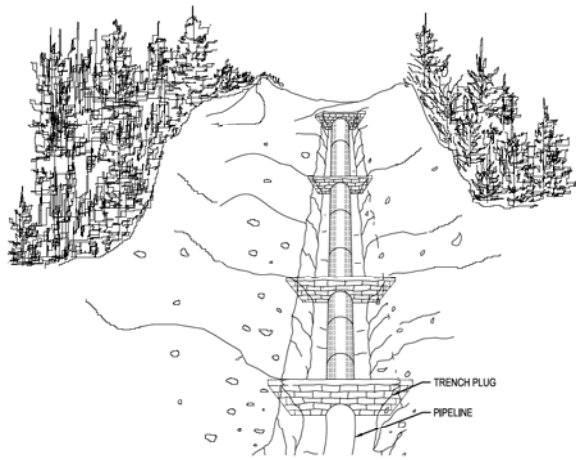
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C367 PIPELINE
EROSION SEDIMENT CONTROL DETAILS 4
CLERMONT COUNTY, OHIO

KELLOGG, OH

SHEET(S)	3 OF 5	DWG SCALE	AS NOTED
DWG DATE	10/12/2020	SUPERSEDED	
DRAWING NUMBER	PNG -C-367-0002503		REVISION
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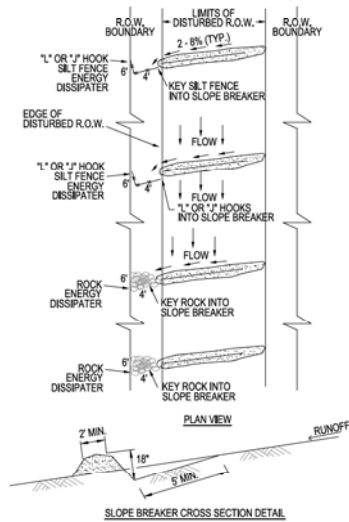
PROFESSIONAL ENGINEER STAMP



NOTES:

- TRENCH PLUGS SHALL BE INSTALLED:
 - ON SLOPES ALONG THE TRENCH LINE WHERE THE NATURAL DRAINAGE PATTERN, PROFILE, AND TYPE OF BACKFILL MATERIAL MAY RESULT IN LOSS OF BACKFILL MATERIAL OR ALTERATION OF THE NATURAL PATTERN.
 - AT THE BASE OF SLOPES ADJACENT TO WATERBODIES AND WETLANDS.
 - WHERE NEEDED TO AVOID DRAINING A WETLAND.
 - ON UPLAND SLOPES, AT THE SAME SPACING AS SLOPE BREAKERS AND UP SLOPE OF SLOPE BREAKERS.
 - IN CULTIVATED LAND AND RESIDENTIAL AREAS WHERE PERMANENT SLOPE BREAKERS ARE NOT TYPICALLY INSTALLED, AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WERE REQUIRED.
- PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH DUKE CONSTRUCTION STANDARDS AND AS DIRECTED
 - BY COMPANY'S INSPECTOR. SACK BREAKS SHALL UTILIZE OPEN WEAVE HEMP OR JUTE SACKS FILLED WITH MINIMUM OF 5SLS OF SUBSOIL, SAND OR A MIXTURE OF 1 PART CEMENT TO 6 PARTS SAND OR SUBSOIL AS DETERMINED BY COMPANY'S INSPECTOR
 - POLYURETHANE FOAM BREAKERS MAY BE USED IN-LEU-OF SACK BREAKERS, WHEN APPROVED BY COMPANY'S REPRESENTATIVE.
- PLUG SPACING AND CONFIGURATION MAY BE CHANGED AS DIRECTED BY COMPANY. DEPTH OF DITCH MAY VARY WITH SITE CONDITIONS.
- ALL MATERIALS SHALL BE SUPPLIED BY CONTRACTOR.

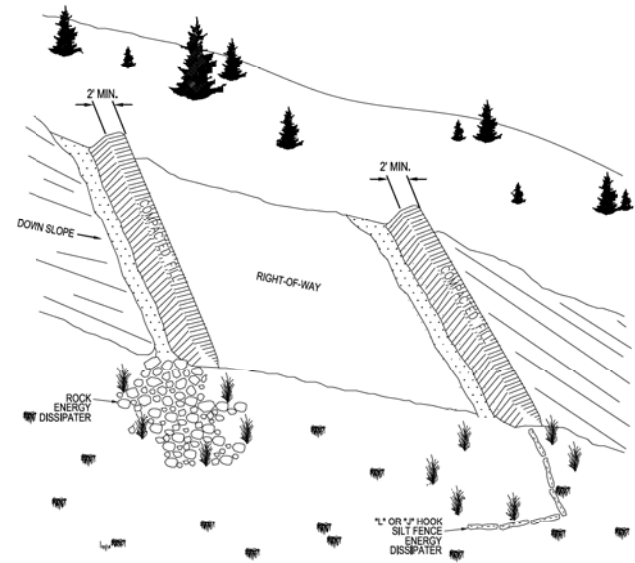
TYPICAL TRENCH PLUG
SCALE: N.T.S.



NOTES:

- SLOPE BREAKERS SHALL BE CONSTRUCTED OF COMPACTED NATIVE SOIL AND INSTALLED AT LOCATIONS AS REQUIRED BY DUKE CONSTRUCTION STANDARDS OR AS DIRECTED BY THE COMPANY'S REPRESENTATIVE.
 - SLOPE BREAKERS SHALL BE ORIENTED AS SHOWN OR OTHER PATTERN AS DIRECTED BY THE COMPANY'S REPRESENTATIVE TO DIRECT THE WATER OFF THE RIGHT-OF-WAY.
 - SLOPE BREAKERS SHALL BE CONSTRUCTED AT 2-4% GRADIENT ACROSS THE SLOPE.
 - THE SLOPE BREAKERS SHALL BE 18" DEEP (AS MEASURED FROM THE TROUGH TO THE TOP OF THE SLOPE BREAKER), THE TROUGH WILL BE A MINIMUM OF 5' WIDE ACROSS THE WIDTH OF THE RIGHT-OF-WAY.
 - THE OUTLET OF THE SLOPE BREAKER MUST FREELY DISCHARGE ALL RUNOFF OFF THE DISTURBED RIGHT-OF-WAY INTO AN ENERGY DISSIPATER.
 - WHERE SLOPE BREAKERS EXTEND BEYOND THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY TO DIRECT RUNOFF INTO STABLE, WELL VEGETATED AREAS, THESE LOCATIONS MUST BE APPROVED BY THE COMPANY'S REPRESENTATIVE.
- FLOW ENERGY DISSIPATER NOTES:**
- THE OUTLET SHALL CONTAIN AN ENERGY DISSIPATER IF THE COMPANY'S INSPECTOR DETERMINES EXISTING VEGETATION IS NOT SUFFICIENTLY STABLE TO PREVENT EROSION. THE ENERGY DISSIPATER SHALL BE CONSTRUCTED AS FOLLOWS:
 - OUTFALL END OF DISSIPATER SHOULD BE LOWER THAN SLOPE BREAKER END.
 - SILT FENCE OR ROCK DISSIPATERS SHOULD BE KEYS INTO THE END OF THE SLOPE BREAKER.
 - PROVIDE ENOUGH AREA INSIDE 1" TO CAPTURE AND HOLD SEDIMENT.

TYPICAL SLOPE BREAKER
SCALE: N.T.S.



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REF. DWG(S): PNG-G-367-002001

NO.	DATE	REVISION/DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	DATE	INITIALS	APPROVALS
A	12-18-2020	REVISED 30% DESIGN	SFS	JMP	CNS/A	AW1082		
B	12-19-2021	60% DESIGN FOR OFPSE	SFS	JMP	CNS/A	AW1982		
					PROJECT NUMBER	AW1982		
					DRAWING BY	SFS		
					STATION ID			
					CHECKER INITIALS	JMP		

REGIONAL ENGINEER

MGR TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

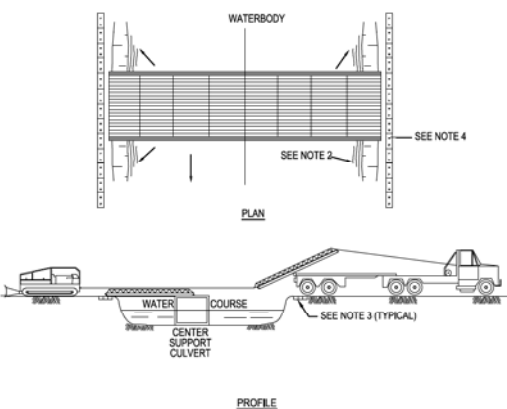
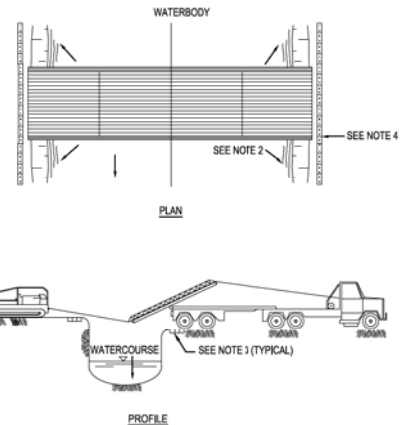
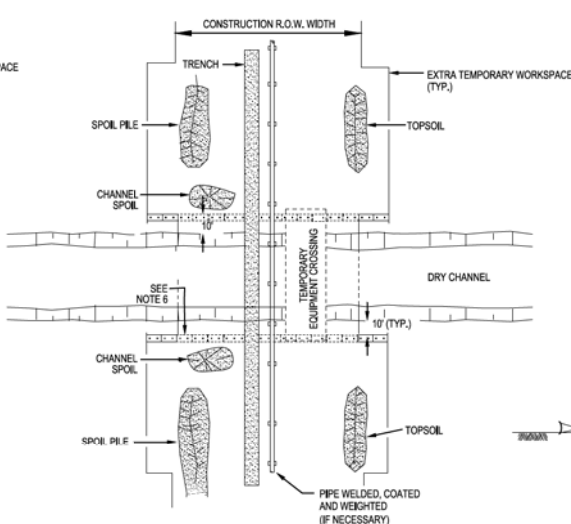
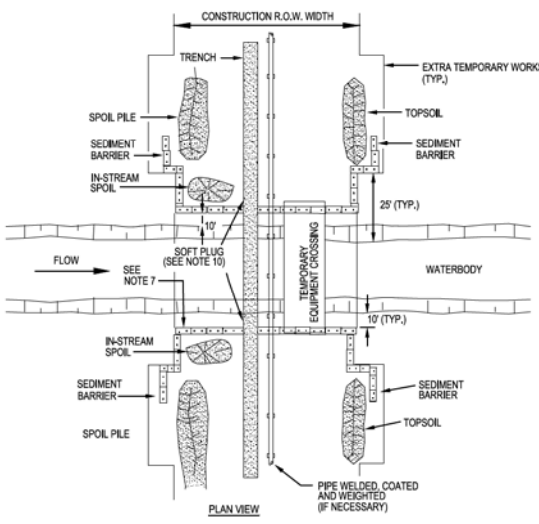
Piedmont Natural Gas

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EROSION SEDIMENT CONTROL DETAILS 5
CLERMONT COUNTY, OHIO

KELLOGG, OH

SHEET(S) 3 OF 5	DWG SCALE AS NOTED
DWG DATE 10/12/2020	SUPERSEDED
DRAWING NUMBER	REVISION
PNG -C-367-002504	B
GNEELLOGG/CMP	



- NOTES:**
- METHOD APPLIES TO WATERBODIES THAT ARE NOT STATE-DESIGNATED FISHERIES WHERE FLUME CROSSINGS ARE NOT REQUIRED.
 - IF TOPOGRAPHY PERMITS TEMPORARY EQUIPMENT BRIDGE INSTALLATION, THE CONTRACTOR SHALL TRENCH, STRING, WELD, COAT, WEIGHT (IF NECESSARY), LOWER IN AND BACKFILL UTILIZING THE MAIN LINE CREW TRAVELING OVER THE BRIDGE.
 - IF TOPOGRAPHY PROHIBITS INSTALLATION OF A TEMPORARY EQUIPMENT BRIDGE, CONTRACTOR SHALL TRENCH UP TO BOTH SIDES OF CROSSING, STRING, WELD, COAT AND WEIGHT (IF NECESSARY) USING THE MAINLINE CREW, IN-STREAM EXCAVATION, LOWER IN, AND BACKFILL WILL UTILIZES A CLAM OR HOES WORKING FROM THE BANKS.
 - SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE. NO IN-STREAM WORK BETWEEN APRIL 15 AND JUNE 30.
 - COMPLETE ALL IN-STREAM ACTIVITIES WITHIN 24 HOURS IF FEASIBLE.
 - NO REFUELING OF MOBILE EQUIPMENT WITHIN 100 FEET OF WATERBODY. REFUEL STATIONARY EQUIPMENT AS PER THE SPOC PLAN.
 - INSTALLATION OF TEMPORARY EQUIPMENT CROSSING IS REQUIRED AT ALL STATE-DESIGNATED FISHERIES AND STREAM CROSSINGS. IF A TEMPORARY EQUIPMENT CROSSING IS INSTALLED, IT MUST BE BUILT IN ACCORDANCE WITH SECTION PERMITS.
 - IN AGRICULTURAL LAND, STRIP TOPSOIL FROM SPOIL STORAGE AREA.
 - CONSTRUCT SEDIMENT BARRIERS ALONG THE SIDES OF STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
 - IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL A MINIMUM OF 10 FEET FROM THE WATERS EDGE AND WITHIN THE CONSTRUCTION R.O.W. UNLESS DEPICTED OTHERWISE IN SITE SPECIFIC CROSSING PLANS. TEMPORARY WORKSPACE MUST BE A MINIMUM OF 25' FROM THE WATERS EDGE.
 - TRENCH THROUGH WATERCOURSE USING MAINLINE EXCAVATION EQUIPMENT WHERE PRACTICAL.
 - INSTALL SOFT PLUGS AT THE EDGE OF STREAM BANKS UNTIL JUST PRIOR TO PIPE INSTALLATION TO CONTROL WATER FLOW & TRENCH SLOUGHING.
 - MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
 - BACKFILL WITH NATIVE MATERIAL.
 - RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
 - RESTORE STREAM BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
 - ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.
 - NO FORD CROSSINGS ARE PERMITTED.

- NOTES:**
- METHOD APPLIES TO CROSSINGS WHERE NO FLOWING WATER IS PRESENT AT THE TIME OF CROSSING.
 - CONTRACTOR MAY "MAINLINE THROUGH" THE CROSSING OR UP TO BOTH SIDES OF THE CROSSING; STRING, WELD, COAT, AND WEIGHT (IF NECESSARY), USING THE MAINLINE CREW WITH THE PIPE SKIDDED OVER THE CROSSING.
 - NO REFUELING OF MOBILE EQUIPMENT WITHIN 100 FEET OF DRY CHANNEL. REFUEL STATIONARY EQUIPMENT AS PER THE SPOC PLAN.
 - INSTALLATION OF TEMPORARY EQUIPMENT CROSSING IS REQUIRED AT ALL STREAM CROSSINGS. EQUIPMENT CROSSING MUST BE BUILT IN ACCORDANCE WITH THE TYPICAL PORTABLE WATERBODY BRIDGE DETAIL.
 - IN AGRICULTURAL LAND, STRIP TOPSOIL FROM SPOIL STORAGE AREA. STOCKPILE TOPSOIL AND SPOIL SEPARATELY. TOPSOIL AND SPOIL WILL NOT BE STOCKPILED IN THE CROSSING CHANNEL AND WILL BE PLACED A MINIMUM OF 10 FEET FROM CROSSING BANKS WITHIN THE CONSTRUCTION R.O.W.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. FOLLOWING CLEARING AND GRADING AND MAINTAIN UNTIL CONSTRUCTION OF THE CROSSING. EROSION CONTROL MEASURES SHALL BE REINSTALLED IMMEDIATELY FOLLOWING BACKFILLING OF TRENCH AND STABILIZATION OF BANKS. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
 - IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL A MINIMUM OF 10 FEET FROM HIGH BANK AND WITHIN THE CONSTRUCTION R.O.W. UNLESS DEPICTED OTHERWISE IN SITE SPECIFIC CROSSING PLANS.
 - BACKFILL WITH NATIVE MATERIAL.
 - RESTORE CROSSING CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
 - RESTORE CROSSING BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
 - ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.

- NOTES:**
- THIS TYPE OF BRIDGE IS GENERALLY USED ON NARROW, DEEP CROSSINGS.
 - BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
 - UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL USED DOES NOT SPILL INTO WATERCOURSE.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 - REMOVE PORTABLE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
 - DISPOSE OF ANY ROCK AS DIRECTED BY THE COMPANY REPRESENTATIVE.
 - RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

- NOTES:**
- THIS TYPE OF BRIDGE IS GENERALLY USED FOR CROSSINGS THAT ARE TOO WIDE FOR A SINGLE BRIDGE SECTION AND RELATIVELY SHALLOW.
 - BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
 - UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL, IF USED, DOES NOT SPILL INTO WATERCOURSE.
 - CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 - REMOVE PORTABLE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
 - DISPOSE OF ANY ROCK AS DIRECTED BY THE COMPANY REPRESENTATIVE.
 - RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL FLOWING WATERBODY CROSSING OPEN CUT TRENCHED
SCALE: N.T.S.

TYPICAL NON-FLOWING WATERBODY CROSSING OPEN CUT TRENCHING
SCALE: N.T.S.

TYPICAL PORTABLE WATERBODY BRIDGE
SCALE: N.T.S.

TYPICAL PORTABLE WATERBODY BRIDGE WITH CULVERT SUPPORT
SCALE: N.T.S.

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SHEET(S) 3 OF 5 DWG SCALE AS NOTED

DWG DATE 10/12/2020 SUPERSEDED

DRAWING NUMBER PNG -C-367-0002505 REVISION B

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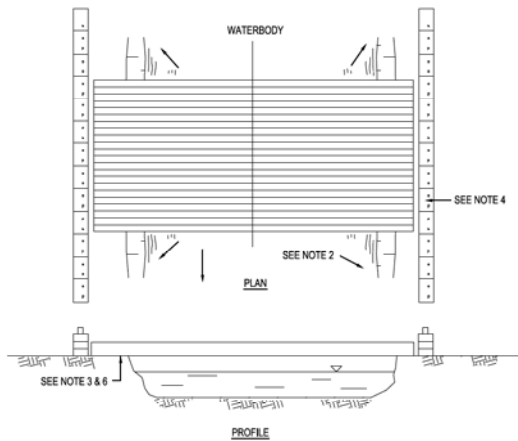
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REV.	DATE	REVISION DESCRIPTION	BY	CHK (APPV)	DESCRIPTION	APPROVALS
A	12-18-2020	REVISED 30% DESIGN	SFS/JMP	CNS	AREA CODE	
B	10-12-2021	80% DESIGN FOR OFPS	SFS/JMP	CNS	ACCOUNT NUMBER	

PROJECT NUMBER: AW1982
DRAWING BY: SFS
STATION ID:
CHECKER INITIALS: JMP

REGIONAL ENGINEER: MGR TECH REC & STD
PRINCIPAL ENGINEER: KELLOGG, OH

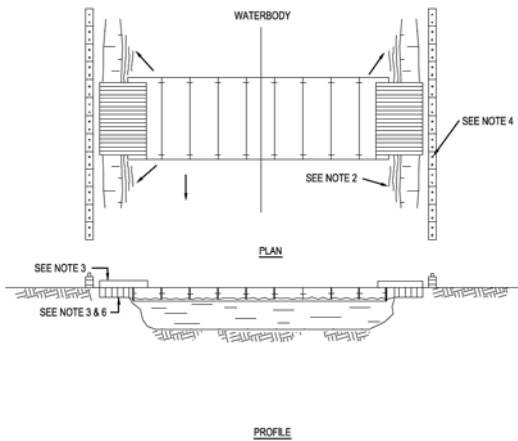
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C367 PIPELINE
EROSION SEDIMENT CONTROL DETAILS 6
CLERMONT COUNTY, OHIO
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1. THIS TYPE OF BRIDGE IS GENERALLY USED ON NARROW CROSSINGS, LESS THAN 20 FEET WIDE WITH APPROPRIATE BANK CONFIGURATION. MULTIPLE MATS MAY BE LAYERED FOR HEAVIER EQUIPMENT CROSSINGS.
2. BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY. BRIDGE SHOULD BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE TO USE.
3. IF REQUIRED, UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL IF USED DOES NOT SPILL INTO WATERCOURSE INCLUDING REMOVAL OF DIRT FROM DECK DURING OPERATION.
4. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE, HAY BALES OR SANDBAGS MAY BE USED INTERCHANGEABLY.
5. REMOVE BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING, AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
6. DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
7. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL TIMBER MAT WATERBODY BRIDGE

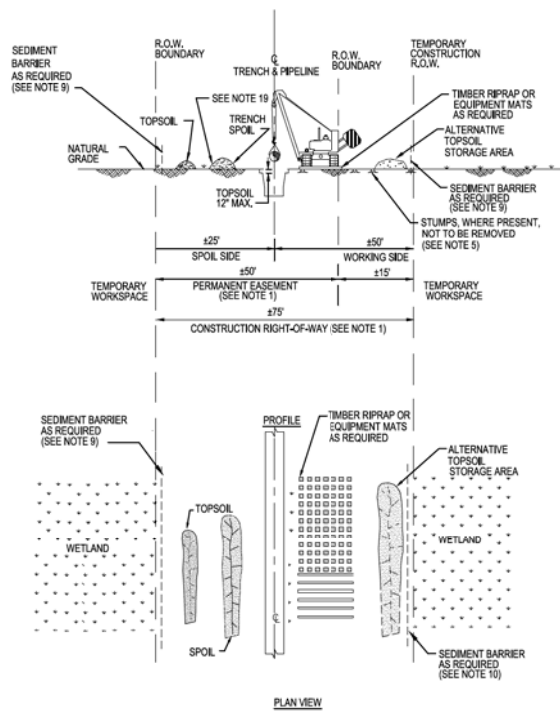
SCALE: N.T.S.



1. THIS TYPE OF BRIDGE IS GENERALLY USED ON WIDE, DEEP CROSSINGS.
2. BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY.
3. UTILIZE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATS, SKIDS OR OTHER SUITABLE MATERIALS TO AVOID CUTTING THE BANKS WHEREVER FEASIBLE. ENSURE ADEQUATE FREEBOARD, AS REQUIRED, ENSURE THAT FILL MATERIAL, IF USED, DOES NOT SPILL INTO WATERCOURSE.
4. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY. SILT FENCE, HAY BALES OR SANDBAGS MAY BE USED INTERCHANGEABLY.
5. REMOVE FLOATING BRIDGES AS SOON AS POSSIBLE AFTER PERMANENT SEEDING UNLESS OTHERWISE DIRECTED BY COMPANY REPRESENTATIVE. THE STRUCTURE IS TO BE REMOVED IF THERE IS MORE THAN ONE MONTH BETWEEN FINAL GRADING AND SEEDING AND ALTERNATIVE ACCESS TO THE CONSTRUCTION R.O.W. IS AVAILABLE.
6. DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
7. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL FLEXI-FLOAT WATERBODY BRIDGE

SCALE: N.T.S.

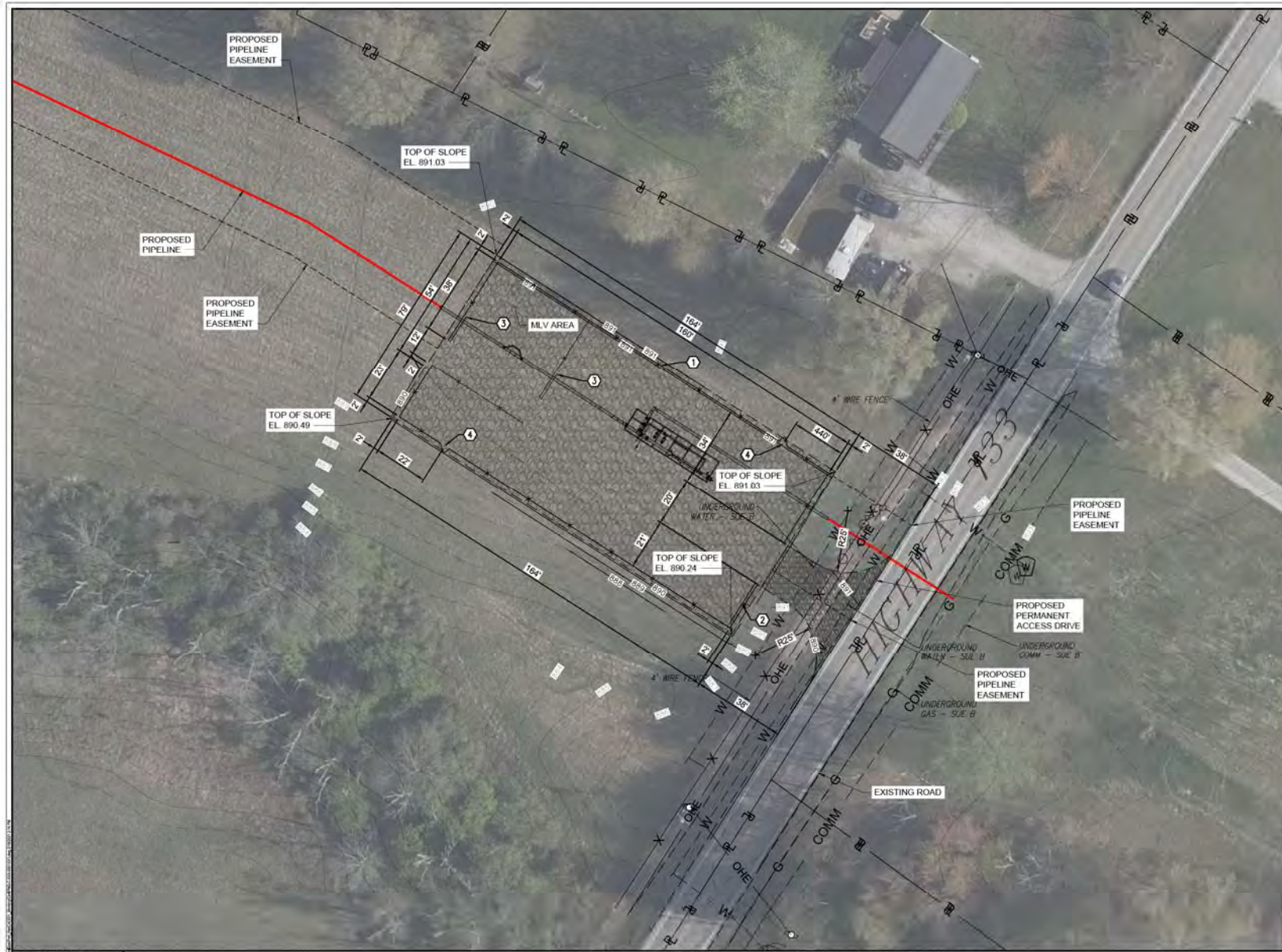


1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 75 FEET WIDE CONSISTING OF 50 FEET OF PERMANENT EASEMENT AND UP TO 25 FEET OF TEMPORARY WORKSPACE.
2. THE SAME LAYOUT APPLIES WHETHER CONSTRUCTION R.O.W. DOES OR DOES NOT ABUT A FOREIGN R.O.W.
3. LOCATE ANY EXTRA TEMPORARY WORK SPACE AREAS AT LEAST 25 FEET FROM EDGE OF WETLAND AND WITHIN THE APPLICABLE FULL WIDTH CONSTRUCTION R.O.W.
4. CLEARING OF VEGETATION AND TREES IS PROHIBITED BETWEEN TEMPORARY EXTRA WORK SPACE AND THE EDGE OF THE WETLAND
5. CUT VEGETATION AND TREES OFF AT GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE WHEREVER PRACTICABLE, AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
6. LIMIT CONSTRUCTION EQUIPMENT TO ONE PASS THROUGH WETLANDS TO THE EXTENT PRACTICABLE.
7. NO REFUELING OF EQUIPMENT WITHIN 100 FEET OF WETLAND EXCEPT IN ACCORDANCE WITH THE SPOC PLAN.
8. IF SATURATED AT TIME OF CONSTRUCTION, REDUCE SOIL COMPACTION BY UTILIZING WIDE-TRACK OR BALLOON TIRE CONSTRUCTION EQUIPMENT OR NORMAL EQUIPMENT OPERATED ON TIMBER RIPRAP OR EQUIPMENT MATS.
9. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS IMMEDIATELY AFTER INITIAL GROUND DISTURBANCE AND AT THE EDGE OF THE CONSTRUCTION R.O.W. ALONG THE WETLAND AS DIRECTED BY THE COMPANY'S INSPECTOR.
10. THIS DRAWING REFLECTS "TRENCH ONLY" TOPSOIL STRIPPING PROCEDURE FOR AREAS WHERE STANDING WATER OR SATURATED SOIL ARE NOT PRESENT.
11. SALVAGE UP TO 12" OF TOPSOIL OVER TRENCH AT LOCATIONS IDENTIFIED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE COMPANY'S INSPECTOR. MAINTAIN SEPARATION BETWEEN TOPSOIL AND TRENCH SPOIL.
12. LEAVE GAPS IN TOPSOIL AND SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT USE TOPSOIL FOR PADDING. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL PILE.
13. IN UNSATURATED CONDITIONS, SPOIL MAY BE USED TO STABILIZE THE WORKING SIDE.
14. IF SATURATED AT TIME OF CONSTRUCTION, LEAVE HARD PLUGS AT THE EDGE OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
15. TRENCH THROUGH WETLANDS.
16. LOWER PIPE, INSTALL TRENCH BREAKERS AT WETLAND EDGES AS DIRECTED BY THE COMPANY'S INSPECTOR TO PREVENT DRAINAGE. BACKFILL UPON COMPLETION OF CONSTRUCTION.
17. REMOVE ALL TIMBER, RIPRAP OR EQUIPMENT MATS FROM WETLANDS UPON COMPLETION OF CONSTRUCTION.
18. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY AND REPLACE TOPSOIL, WHERE SALVAGED, WITHOUT A CROWN OVER THE TRENCH.
19. IF STANDING WATER IS NOT PRESENT, SEED AS SPECIFIED.
20. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANY'S INSPECTOR, BE REVERSED.

TYPICAL WETLAND CROSSING

SCALE: N.T.S.

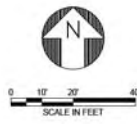
BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE LICENSE # 004, 01597		*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)				REF. DWG(S): PNG-C-367-002/001		
MFL DATE A 12-18-2020 B 10-10-2021	REVISION/DESCRIPTION REVISED 30% DESIGN 00% DESIGN FOR O/P/S/E	BY (APP) SFS JMP CNE	DESCRIPTION AREA CODE ACCOUNT NUMBER PROJECT NUMBER DRAWING BY STATION ID CHECKER INITIALS	APPROVALS DATE INITIALS DATE INITIALS DATE INITIALS	REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER	C367 PIPELINE EROSION SEDIMENT CONTROL DETAILS 7 CLERMONT COUNTY, OHIO KELLOGG, OH		SHEET(S) 3 OF 5 DWG SCALE AS NOTED DWG DATE 10/12/2020 SUPERSEDED DRAWING NUMBER PNG -C-367-002506 GNEELLOGG/CMP



- NOTES:**
- EXISTING AERIAL IS FROM GOOGLE EARTH, 2020.
 - SEE SHEET C-TBD-000XXXX FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - ALL DIMENSIONS SHOWN ARE IN FEET UNLESS NOTED OTHERWISE.
 - SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 20' SLIDE GATE
 - ③ 12' SLIDE GATE
 - ④ 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



PRELIMINARY - NOT FOR CONSTRUCTION
60% DESIGN SUBMITTAL

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ENGINEERING COMPANY, INC.
STATE LICENSE # COA. 01557

DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL. DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE. TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE, ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISIONS DESCRIPTION
A	11/06/2020	ISSUED FOR 30% REVIEW
E	02/10/2021	90% DESIGN FOR OPSE

BY	CHK	APPR	DESCRIPTION	DATE	INITIALS
PJK	CDW	JRC	AREA CODE		
PJK	CDW	JRC	ACCOUNT NUMBER	AW1982	
			PROJECT NUMBER	AW1982	
			DRAWING BY	PJK	
			STATION ID		
			CHECKER INITIALS	CDW	

REGIONAL	DATE	INITIALS
MANAGER		
TECH		
REC & STD		
PRINCIPAL		
ENGINEER		



**BETHEL LAUNCHER STATION
SITE PLAN
CLERMONT COUNTY, OHIO**
KELLOGG, OH
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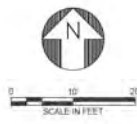
SHEET(S) X OF X	DWG SCALE	AS NOTED
DWG DATE 11/06/2020	SUPERSEDED	
DRAWING NUMBER	REVISION	
PNG-C-XXX-001XX1	B	
CNKL00000007		



- NOTES:**
- EXISTING AERIAL IS FROM GOOGLE EARTH, 2020.
 - SEE SHEET C-TBD-000XXXX FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - ALL DIMENSIONS SHOWN ARE IN FEET UNLESS NOTED OTHERWISE.
 - SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 16' SLIDE GATE
 - ③ 4' MAN GATE

- LEGEND:**
-  PROPOSED GRAVEL SURFACE COURSE
 -  PROPOSED GRAVEL ACCESS SURFACE



PRELIMINARY - NOT FOR CONSTRUCTION
60% DESIGN SUBMITTAL

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REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPR	DESCRIPTION	APPROVALS	REGIONAL ENGINEER
A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC	AREA CODE		
B	02-10-2021	60% DESIGN FOR OPSB	PJK	CDW	JRC	ACCOUNT NUMBER	AW1982	
						PROJECT NUMBER	AW1982	
						DRAWING BY	PJK	
						STATION ID		
						CHECKER INITIALS	CDW	

SHEET(S)	X OF X	DWG SCALE	AS NOTED
DWG DATE	11/06/2020	SUPERSEDED	
DRAWING NUMBER	PNG-C-XXX-0002XX2		
REVISION	B		



MLV-201 STATION
SITE PLAN - ALT ROUTE
CLERMONT COUNTY, OHIO
KELLOGG, OH

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 - SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

- KEY NOTES:**
- ① CHAIN-LINK FENCE
 - ② 12' SLIDE GATE
 - ③ 4' MAN GATE

- LEGEND:**
- PROPOSED GRAVEL SURFACE COURSE
 - PROPOSED GRAVEL ACCESS SURFACE



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60% DESIGN SUBMITTAL

BURNS & MCCONNELL
ENGINEERING COMPANY, INC.
STATE LICENSE # COA, 01557

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NO.	DATE	REVISIONS/DESCRIPTION	BY	CHK	APPR	DESCRIPTION	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC	AREA CODE	
B	02-10-2021	60% DESIGN FOR OPSB	PJK	CDW	JRC	ACCOUNT NUMBER	
						PROJECT NUMBER	AW1982
						DRAWING BY	PJK
						STATION ID	
						CHECKER INITIALS	CDW

REGIONAL ENGINEER

MGR TECH REC & STD

PRINCIPAL ENGINEER

DUKE ENERGY

Piedmont Natural Gas

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MLV-301 STATION
SITE PLAN - ALT ROUTE
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	X OF X
DWG SCALE	AS NOTED
DWG DATE	11/06/2020
SUPERSEDED	
DRAWING NUMBER	PNG-C-XXX-0003XX2
REVISION	B



NOTES:

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- SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.
- FLARE STUDY AREA TO BE APPROXIMATELY 200' X 200'. THE SOUTH AND EAST BOUNDARIES WILL GO TO THE EDGE OF THE PROPERTY LINES.

KEY NOTES:

- ① CHAIN-LINK FENCE
- ② 20' SLIDE GATE
- ③ 12' SLIDE GATE
- ④ 4' MAN GATE

LEGEND:

- PROPOSED GRAVEL SURFACE COURSE
- PROPOSED GRAVEL ACCESS SURFACE
- FLARE STUDY AREA



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NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD	DESCRIPTION	DATE	INITIALS	APPROVALS
A	11-06-2020	ISSUED FOR 30% REVIEW	PJK	CDW	JRC	AREA CODE			REGIONAL ENGINEER
B	02-19-2021	60% DESIGN FOR OPSB	PJK	CDW	JRC	PROJECT NUMBER	AW1982		MGR TECH REG & STD
						DRAWING BY	PJK		
						STATION ID			
						CHECKER INITIALS	CDW		PRINCIPAL ENGINEER



BATAVIA DELIVERY STATION
SITE PLAN - ALT ROUTE
CLERMONT COUNTY, OHIO
KELLOGG, OH

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	X OF X
DWG DATE	11/09/2020
DRAWING NUMBER	PNG-C-XXX-0005XX2
REVISION	B

PROFESSIONAL ENGINEER STAMP

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3. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS NOTED OTHERWISE.
4. SEE ODOT DESIGN STANDARDS, LATEST EDITION, AS INDICATED. ALL SUBSEQUENT STANDARDS AND SPECIFICATIONS SHALL APPLY.

KEY NOTES:

- ① CHAIN-LINK FENCE
- ② 20' SLIDE GATE
- ③ NOT USED ON THIS DWG
- ④ 4' MAN GATE

LEGEND:

-  PROPOSED GRAVEL SURFACE COURSE
-  PROPOSED GRAVEL ACCESS SURFACE



0 10' 20' 40'
SCALE IN FEET

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NO.		DATE	REVISION/DESCRIPTION	BY	CHK	APPV	DESCRIPTION	DATE	APPROVALS
A	02-19-2021	60% DESIGN FOR OPSB	PJK	CDW	JRC	AREA CODE	AW1982		REGIONAL ENGINEER
						ACCOUNT NUMBER	AW1982		MANAGER
						PROJECT NUMBER	AW1982		PRINCIPAL ENGINEER
						DRAWING BY	PJK		
						STATION ID			
						CHECKER INITIALS	CDW		

REF. DWG(S)	SEE REFERENCE BAND
SHEET(S)	X OF X
DWG SCALE	AS NOTED
DWG DATE	11/09/2020
SUPERSEDED	
DRAWING NUMBER	PNG-C-XXX-0005XX3
REVISION	A
DRAWN BY	KELLOGG/C367

BATAVIA DELIVERY STATION
ACCESS ROAD PLAN - ALT ROUTE
CLERMONT COUNTY, OHIO

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