





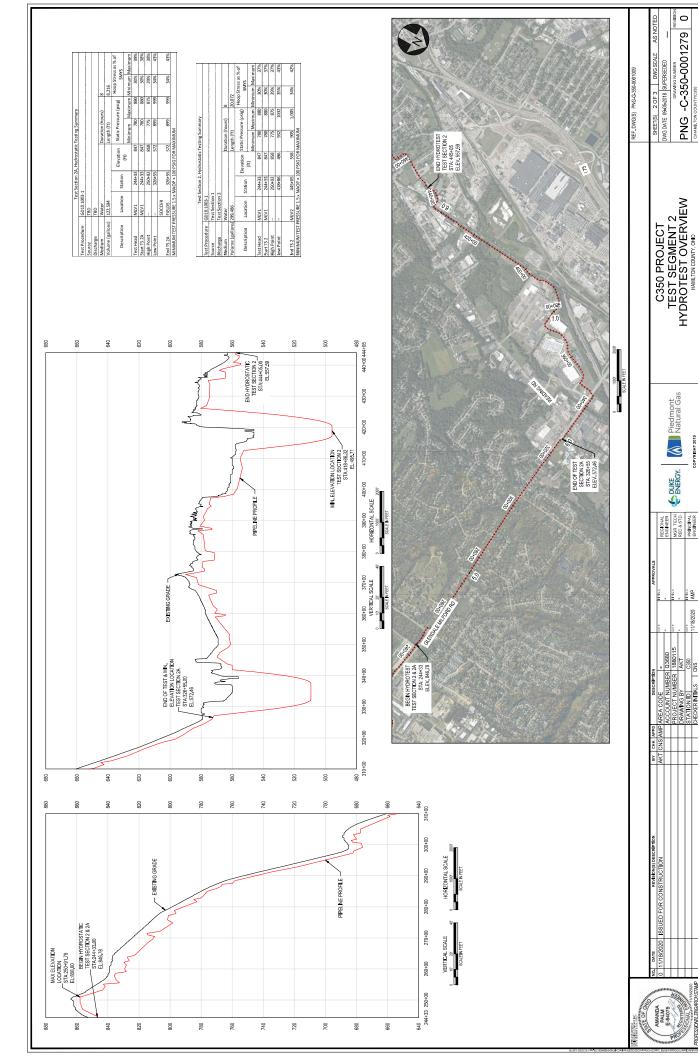


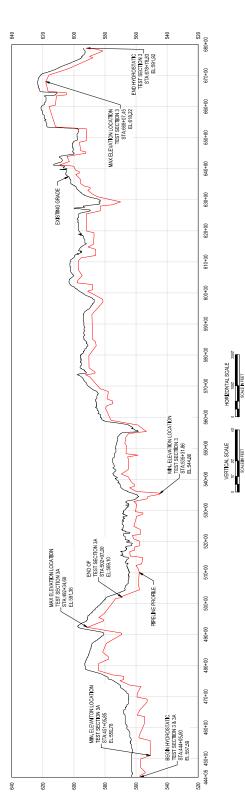
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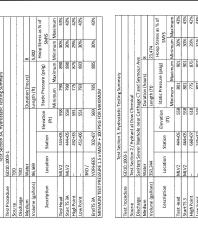
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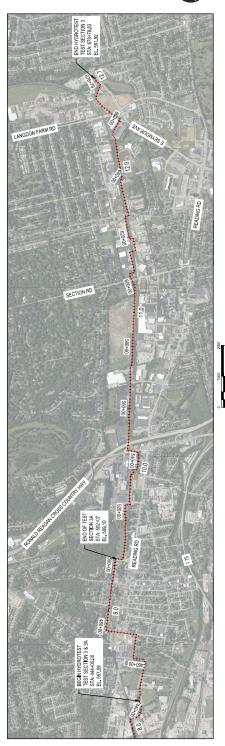
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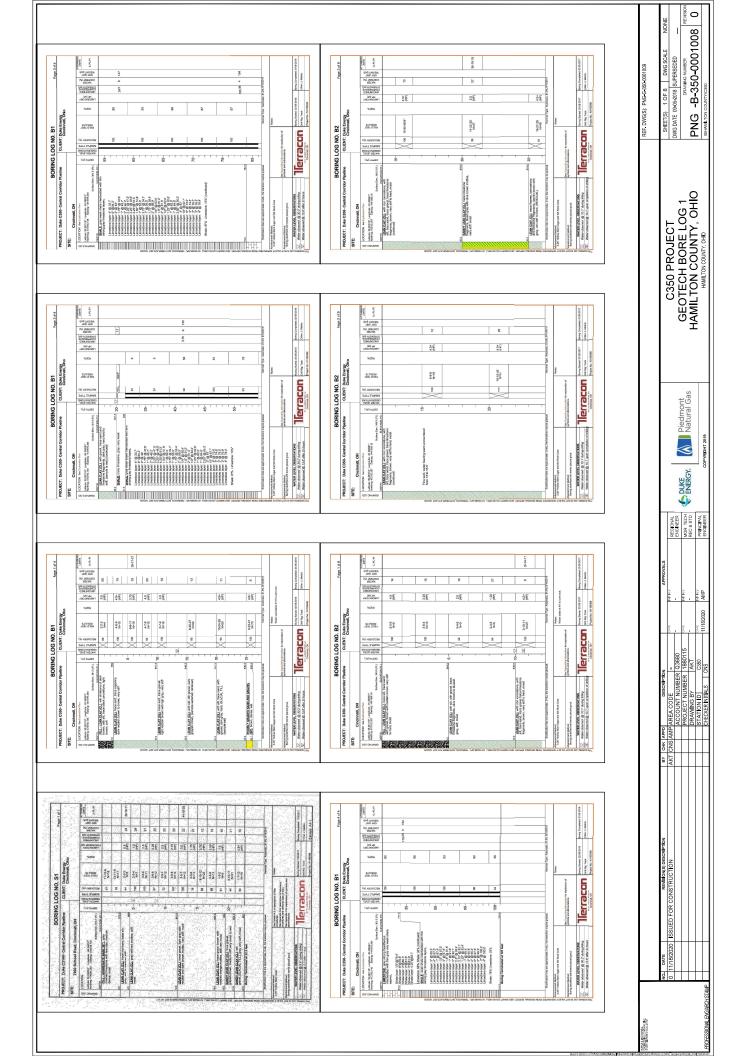


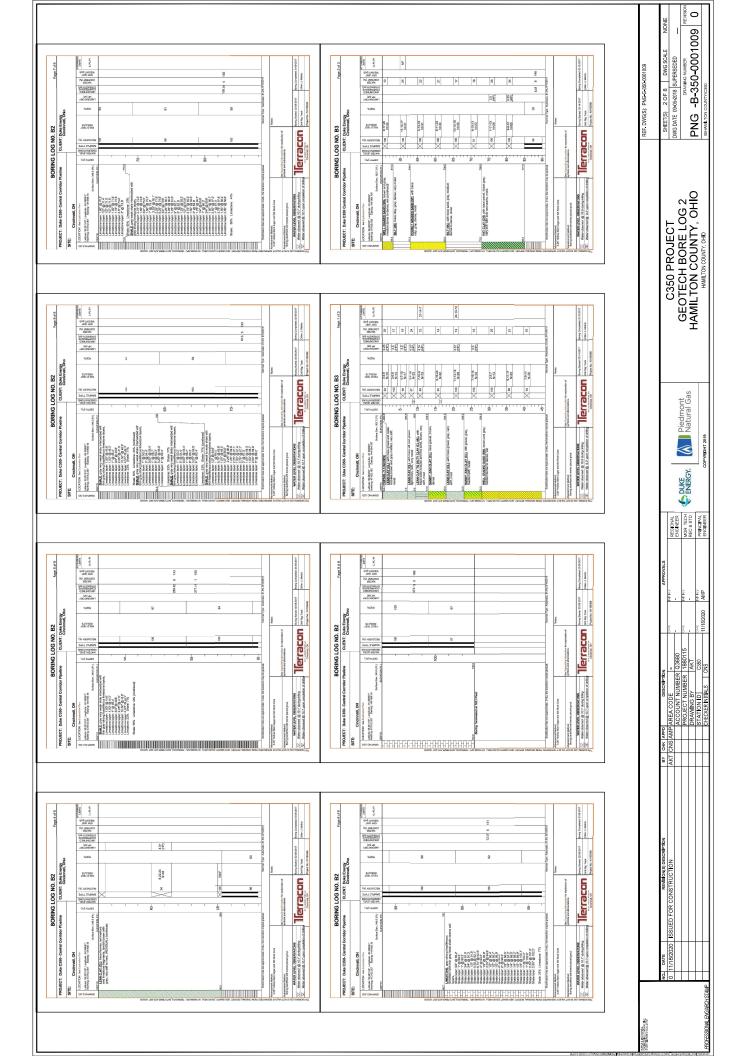


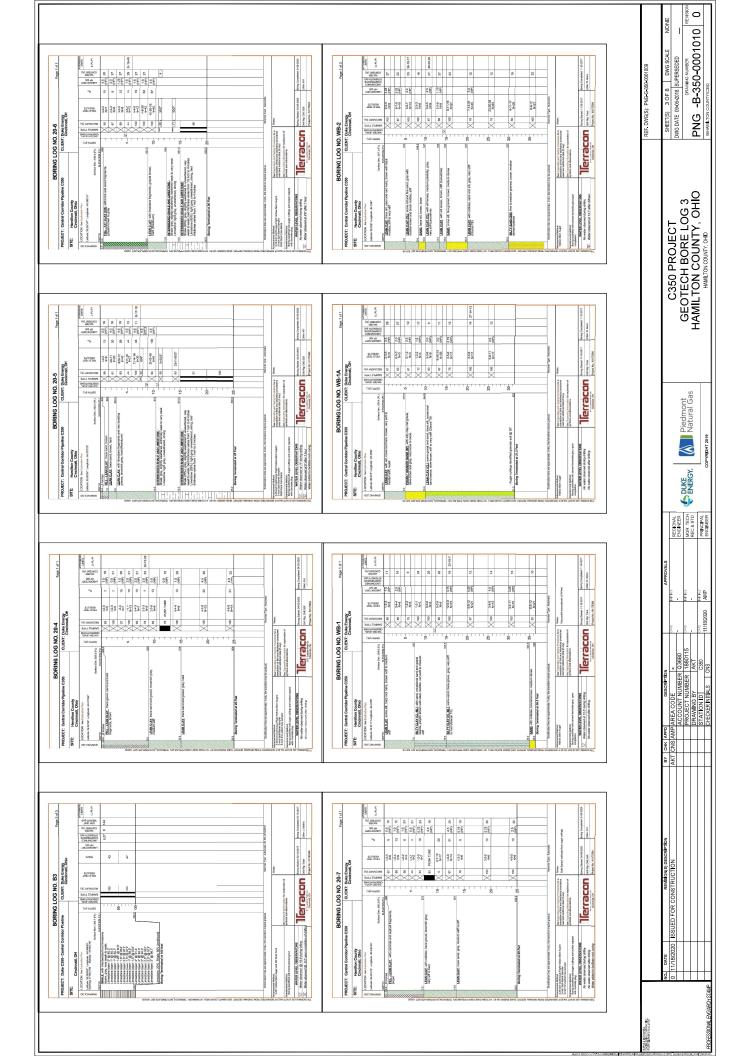


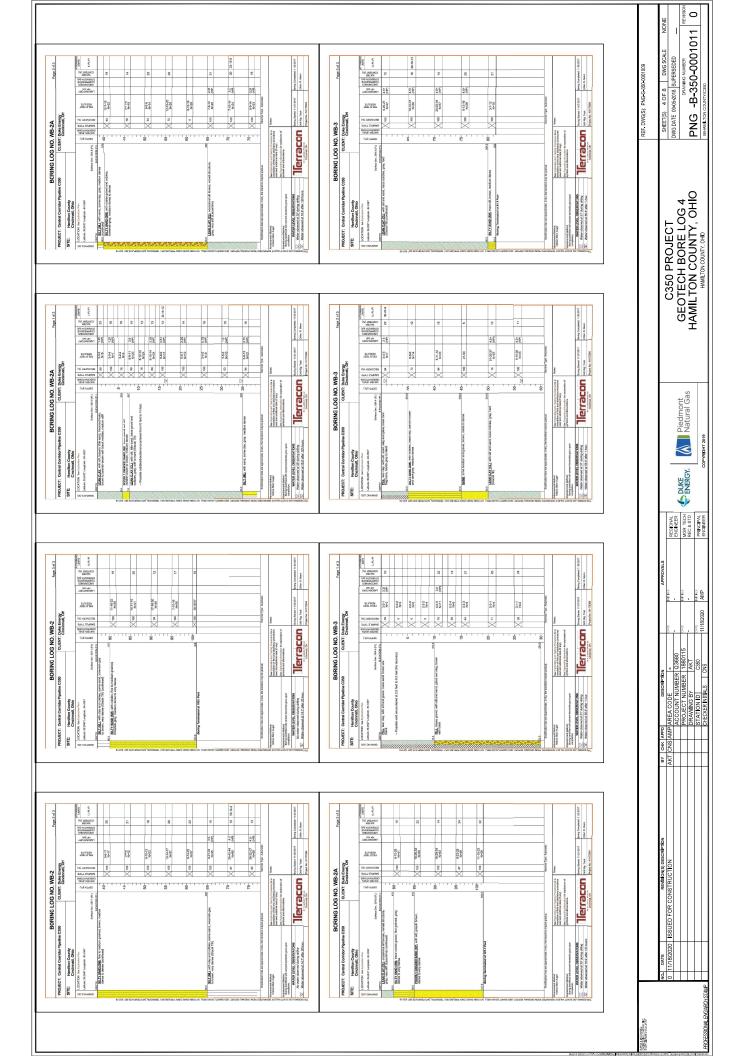
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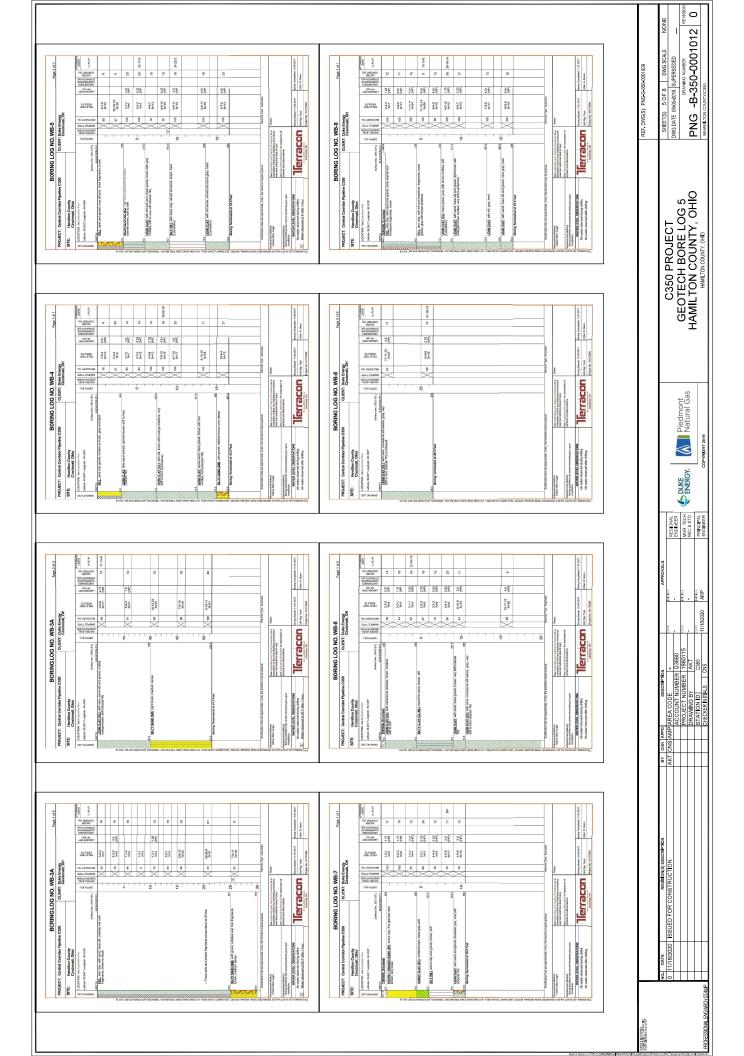
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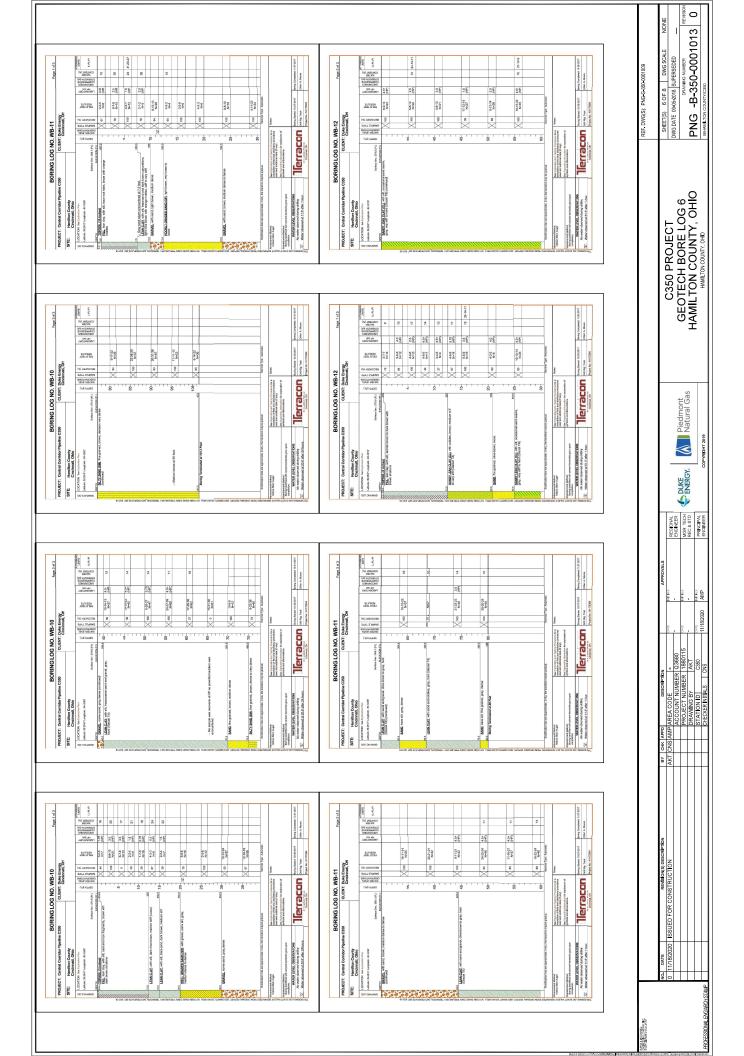


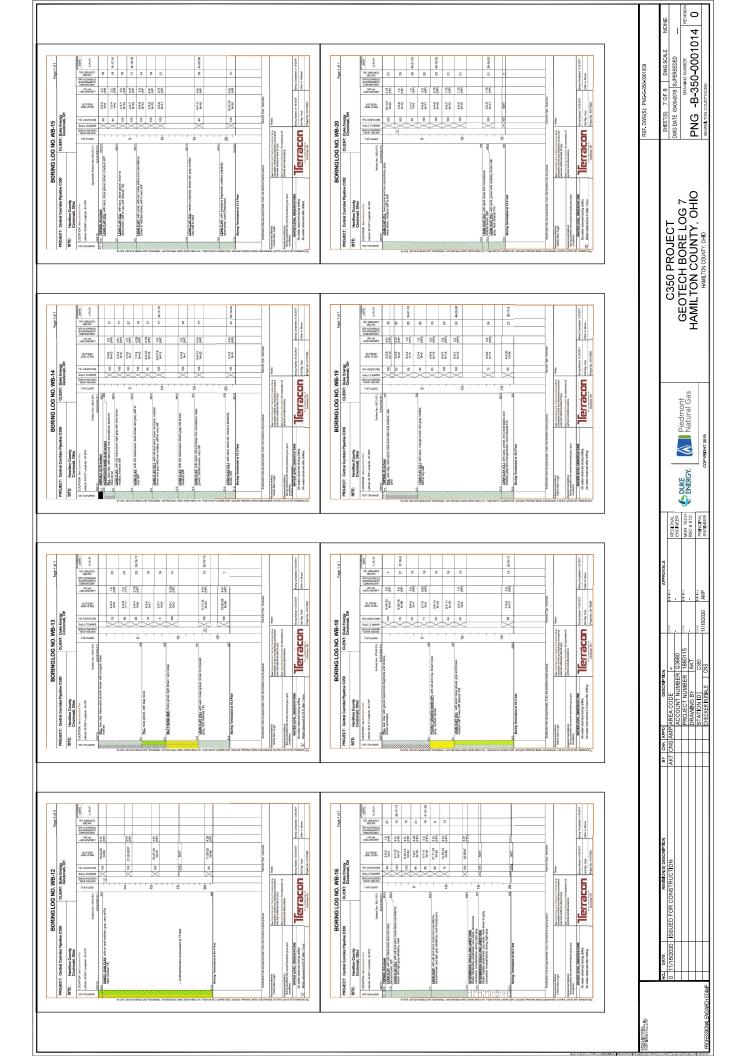


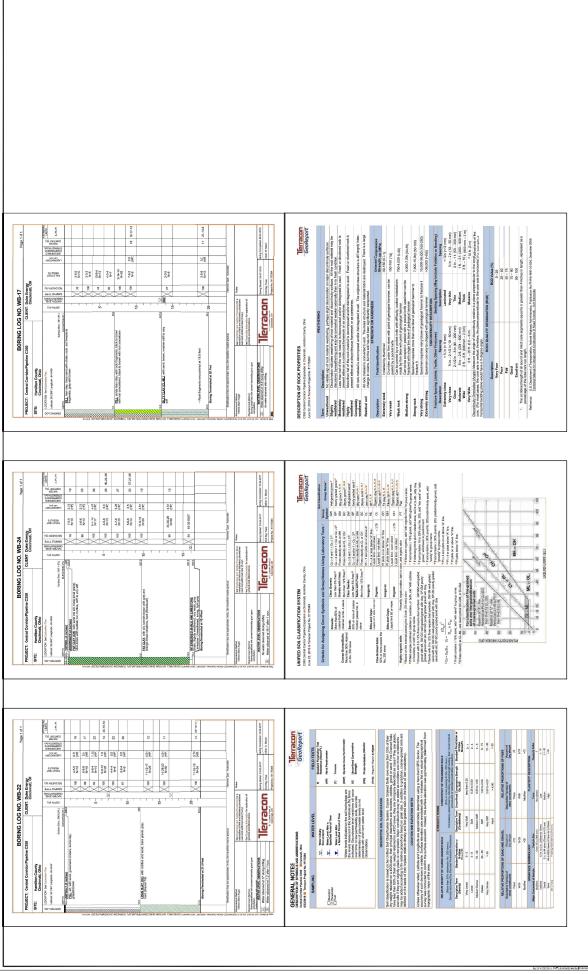




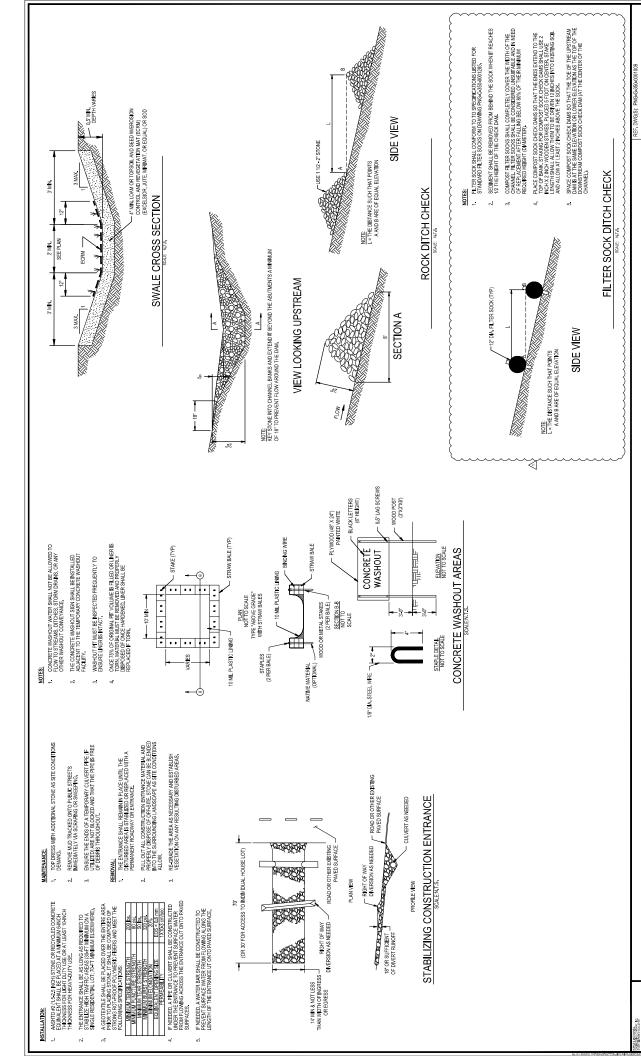








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C350 PROJECT
ENVIRONMENTAL NOTES & DETAILS 1
HAMILTON COUNTY, OHIO

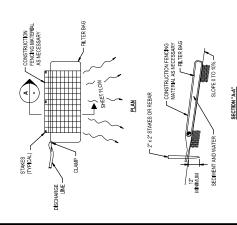
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REGIONAL BUINER MOR TECH CONTROLL ENGINEER COSTO

ISSUED FOR CONSTRUCTION
ADDED FILTER SOCK CHECK DAM DETAIL AND NOTES

NONE

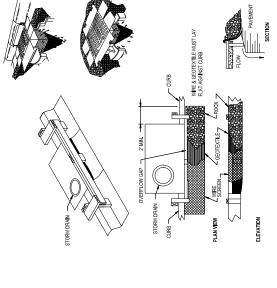
SHEET(S) 1 OF 5 DWG SCALE
DWG DATE 09-05-2018 SUPERSEDED



INSTALL A DEWATERING GEOTEXTILE FILTER BAG AS DIRECTED BY THE COMPANY'S INSPECTOR TO PREVENT THE FLOW OF HEAVLY SILT LADEN WATER INTO WATERBODIES OR WETLANDS.

- THE STITE SUCH THAT WATER WELL EVEN TO SHOW THE TOPOGRAPHY OF THE STITE SUCH THAT WATER WILL FLOW MANY TROM ANY WORK MARSA. THE AREA DOWN SLOPE TROM THE DEWATERNOS SITE MASS THE RESOURCE. THAT WAY OF SYMETHER WORK OFF THE WAY TO ALLOW THE FLITED WATER TO CONTINUE AS SHEEF FLOW.
- TO ATTACH THE DISCHARGE HOSE, CUT A CORNER OF THE BAG, INSERT DISCHARGE HOSE, AND SECURE THE HOSE TO THE BAG.
- A SINGLE FLIER BAG SHOULD NOT BE USED FOR FLOWS GREATER THAN 600 GALLONS PER MINUTE.
- REPLACE FLITER BAG BEFORE IT IS COMPLETELY FILLED WITH SEDIMENT MONITOR DISCHARGE TO AVOID OVER PRESSURING DUE TO PLUGGING, WHICH MAY RESULT IN RUPTURE.
- DISPOSE OF USED FILTER BAG AND SEDIMENT AT A SITE APPROVED BY THE COMPANY'S INSPECTOR.

TYPICAL GEOTEXTILE FILTER BAG FOR DEWATERING SCARNTS.



FLOW SHOULD BE ROUTED TO A SETTLING POND INCORRECT APPLICATION. RUNOFF PONDS AROUND INLET PROFILE VIEV CORRECT APPLICATION. RUNOFF PONDS AROUND INLET ALLOW FOR PONDED RUNOFF -PLAN VIEW PROFILE VIEW

NLET PROTECTION FOR CURB DRAINS & YARD DRAINS SITUATED ON A SLOPE.

- MANTEWANCE

 THE FATISTION SLOCK MUST BE EIRPITED WHEN ITTS FASIO FULL OF SEDMENT AND DEBRES.

 SHOUS MARK THROLL WANDEACTHEED WITH LETING STRAPES, AND DUMPING STRAPS.

 SHOUS MARK THROLL WANDEACTHEED WITH LETING STRAPS SHOULD WITH THE CATCH BASIN WA THE LETING STRAPS SHOUTH TO AN APPROPART EACH. THINK INSTITE OUT WITH THE DUMPING.

 THE CATE THROUGH STEAL SHOUTH STRAPS FROM SHOUTH THE TOWN OTHERWISE THE SAME SACK CAN BE USED MALTHEET THROUGH STANDES SHOUTH STRAPS SHOUTH STRAND SHOUTH STRAND SHOUTH SHEEDED.

 REPLACEMENTS WERE VEEDED.

INSPECTION.

1. MELF PROTECTION MEASURES MUST BE INSPECTED AT LEAST CHOURS PROR TO RAIN EVENTS.

IN ADDITION TO THE WERLY AND POST-RAIN ERRIT INSPECTIONS, NON-TUNCTIONAL DENCES

MUST BE REPLACED.

RENOVA:
1. POLL OUT ALL INLET PROTECTEM MATERIAL AND PROPERLY DISPOSE OF OFFSITE.
2. REGADLE MESA WHERE ACQUIMILATED SEDIMENT HAS BEEN PLACED AS INCESSARY AND ESTABLEN VEGETATION ON ANY RESULTING DISTURBED AFEAS.

THE FOLLOWING DIAGRAMS PROVIDE A GENERAL IDEA OF HOW TO NSTALL AND MANTANA VARETY OF MANTECHED STORM DIAGNATIET PROTECTION PROCITIES. BE SURE TO MELEMENTELTRATION SACOS HAT AGE APPROPRIET FOR EITHER CLIBB METS OR FOR VARD DAMAN METS.
MANURACHIERO SPECIPICALITIES OF REFORMED OF CHOIGE SHOULD BE FOLLOWED.

CURB INLET PROTECTION SCALENTS.

CONSTRUCT WOODEN FRAME FROM ZYAZ LUMBED, DRINE POSTS 1 INTO THE GROUND AT EACH
CORRES IDRECTLY ACABIST THE CONSCREET BOX AND ASSEMBLE. THE TOP FRAME WITH AN
OVER AP, DOINT SHOW BELOW. THE TOP FRAME SHALL BE SET AT AN ELEVATION THAT DOES NOT
CAUSE POWICED WATTER TO BACKUP INTO UNIVANITED AREAS.

GEOTEXTILE OVER WIRE MESH BACKING

1 CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE

2" X 4" FRAME

THE WIRE MESH AND GEOTEXTILE SHALL BE TIGHTLY STRETCHED AND FASTENED TO THE FRAME. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE NILET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST. BACKFIL SHALL BE PLACED IN THE 18" TRENCH AROUND THE NLET IN COMPACTED 6" LAYERS UNTIL THE ELEVATION OF THE TOP OF THE GRATE IS REACHED.

RENOVE ACCUMULATED SEDIMENT WHEN IT REACHES MELHALF THE HEIGHT OF THE PRACTICE. THE RENOVED SEDIMENT MIST BE STRAELED AND SHOUND THE SELVED WHERE IT COULD FURTURALLY BE CONVEYED BACK TO THE NUET IV AS SUFFACE RANDOFF.

MAINTENANCE

COMPACT BACKFILL AROUND INLET

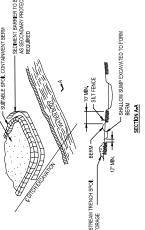
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AREA WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (LE. HIGH CLAY CONTENT) PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.

REMOVAL:

SECTION

REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL



- SECIMENT BARRIER TO BE NSTALLED 1. SOL. CONTANUENT BERNS ARE TO BE USED WHERE INSTREMS TREAMSTREAMS FROM COULD REENTER PROJECTION IF IN WITH CHOLOGOUS DEFORMED. OR NOTHER DIMEDIAN SMALLTANEOUS UTILIZATION OF SERIMENT PROJECT.
- MATERAL USED FOR THE CONTAMMEN' BERM SHOULD BE. ANNAMIN OF 16 FT. FROM THE WATERS EDGE. IT SHOULD BE KEPT TO A HEIGHT WHICH REMAINS STABLE DURING THE CONSTRUCTION PERIOD.
- THE CONTAINMENT BERM SHOULD BE DISMANTLED AND THE SITE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE WATER CROSSING. CARE SHOULD BE TAKEN THAT THE SPOIL PILE DOES NOT OVERTOP THE CONTAINMENT BERM
- 5. WHERE POSSIBLE, RIPARIAN VEGETATION SHALL BE LEFT IN PLACE.
- 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.

- FULL CONSIDERATION FOR OVERALL SLOPE STABILITY IS REQUIRED WHEN SELECTING A SPOIL CONTAINMENT LOCATION.

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

2. RE-GRADE AREA SEDMENT HAS ACCUMULATED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

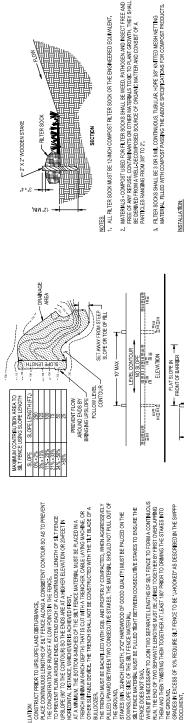
INSTREAM TRENCH SPOIL SUITABLE SPOIL CONTAINMENT BERM INSTREAM TRENCH SPOIL STORAGE

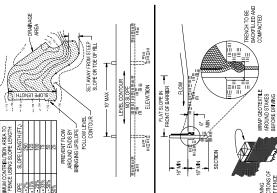
TYPICAL TEMPORARY SOIL CONTAINMENT BERM FOR WATERBODY TRENCH SPOILS



ENVIRONMENTAL NOTES & DETAILS 2 HAMILTON COUNTY, OHIO C350 PROJECT Piedmont
Natural Gas

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SHEET(S) 2 OF 5	DWG DATE 09-05-2018 SUPERSEDED	DRAWIN	PNG -C-350-0001284	CHAMILTON COUNTY/C350	





- 2" X 2" WOODEN STAKE

- SLOPED @ OVER INLET SECTION OF DRAIN COMPACTED FILL **₫**-ELEVATION VIEW INSTALL SEDIMENT TRAP WITH STABILIZED OUTLET 4" DIA MIN.
 CORRUGATED,
 NON-PERFORATED
 PLASTIC
 DRAIN PIPE 10" > DIVERSION RIDGE ANCHOR STAKES
- 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.

NOTES:

- 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

INSTALLATION:

- FILTER SOCKS WILL BE PLACED ON A LEPEL INE ACROSS SLOPES, GENEFALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA ON SLOPES APPROACHIGEZ!, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS WEEDED 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.

REMONE ACQUIALATED SEDNELT WHEN TREACHES 1980 THE HEIGHT OF THE SLI FENCE. THE TREADOED SEDNIENT MAST SE STRAILED AND SOLUTIONS TO E-ALCED MERET TOOLD TREADOLE AND POSPERY TO THE SLIFT THENCE WAS SIRVED RUNGHT. THE PLACE AND POSPERY TO STRONG FOR THE SLIFT THENCE WITHOUT AREAS WHERE SUPPLICE FOOM HAS QUIT NOWED THE SLIFT TRACE MATERIAL WITHIN THE TREACH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (IE. HIGH CLAY CONTENT).

REMOVAL:
- PULL OUT ALL SILT FENGE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF-SITE.
- PEG-SONDE ARED, WHERE SEDMENT HAS ACCUMULATED AS NECESSARY AND ESTINGUES.
- VEGETATION IN ANY RESULTING DISTURBED AREAS.

- 3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDMENTS COLLECTED AT THE BASE OF THE FLTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- WHERE THE FLITER SOCK DETERIORATES OR FALS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFECTIVE 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

MAX DISTANCE FROM THE TOE OF THE SLOPE. LEAVING AT LEAST 5' DISTANCE

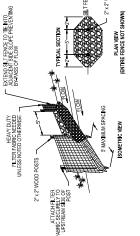
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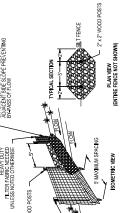
SILT FENCE

RIGHT

STEEP STEEP STEEP STEEP STEEP STORE STORE

6" MAX





INSPECT AND REPAIR AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT REACHES ONE-HALF HEIGHT OF FENCE OR FABRIC STARTS TO BULGE. REMOVED SEDMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDMENT OFF SITE AND CAN BE PERMANENTLY STABILIZED.

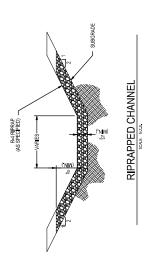
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

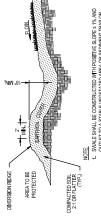
NOTES

TURN END OF SILT FENCE UP SLOPE TO PREVENT BYPASS FLOW AND ALLOW FOR PONDING.

SEE TYPICAL SILT FENCE DETAIL FOR ADDITIONAL INFORMATION.

SILT FENCE ROCK OUTLET





SWALE SHALL BE CONSTRUCTED WITH POSITIVE SLOPE \$ 1% AND OUTLET TO A STABLE VEGETATED AREA OR SEDIMENT TRAP OR BASIN.

DIVERSION SWALE

C350 PROJECT

ENVIRONMENTAL NOTES & DETAILS 3 HAMILTON COUNTY, OHIO

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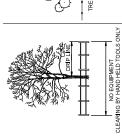
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Piedmont Natural Gas

PNG -C-350-0001285 0 NONE SHEET(S) 3 OF 5 DWG SCALE DWG DATE 09-05-2018 SUPERSEDED

PRESERVATION OF NATURAL VEGETATION

- AREAS WHERE NATURAL VEGETATION IS TO BE PRESERVED, INCLUDING TREES, SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
- ACCEPTABLE FENCE MATERIALS INCLUDE PLASTIC FENCE OR SNOW FENCE ANCHORED TO METAL FENCE POSTS.
- 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 OUTTING AT GROUND LEYEL WITH HAND TOOLS AND SHALL NOT BE STUBBED OR PULLED OUT.



2 MIN. OFFSET FROM TREE CENTER TO THE EDGE OF BORING

CROSS SECTION



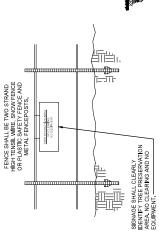








TREE PRESERVATION AREA DURING BORING



CROSS SECTION

TREE PRESERVATION AREA



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

SEVERED ROOTS

TREE PRESERVATION AREA BEFORE TRENCHING

CONSTRUCTION SPECIFIC NWP 39 CONDITIONS ARE PRESENTED HERE FOR CONVENIENCE. NUMBERING SCHEME MATCHES THE ORIGINAL IN/NP 39. CONTRACTOR SALLAL REFER TO COMPLETE PERMIT DOCUMENTATION DURING EXECUTION OF THE WORK.

SPECAL CONDITIONS FOR NATIONWIDE PERMIT NO. 39 VERHICATION C314V CENTRAL CORRIDOR PIPELINE EXTENSION ROJECT CITY OF CINCINNATI, HAMILTON COUNTY, OHO LRH-2020-351-O-HR-MILL GREEK,

ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH DRAWINGS TITLED "FIGURE 2" PROJECT PLAN AND WATER RESOURCES", PREPARED BY JACOBS ENGINEERING GROUP, INC., DATED JUNE 5, 2020, AND SUBMITTED WITH THE PON MATERALS.

9. TO THE MAXIMUM EXTENT PRACTICABLE. THE PRE-CONSTRUCTION COURSE CONDITION.
CAPACITY AND LOCATION OF OPER WINTERS MAKINS BE WANTAMED FOR EXACATION THE
INCLUDIONS STREAM CHANNELLEXTON STORM WANTER MAKADED THE TEST ACTIVITIES AND
TEST PROPERTY THE TRAD CROSSINGS EXCEPT AS PROVIDED BLOW, THE ACTIVITY
WASTE BE CONSTRUCTED TO WITH STAND EXPECTED THE HE ACTIVITY MAST NOT
PRESTRED TO WITHERE THE PRASSAGE FOR MAXIMAL OR HOST FOR INCLUDING MEETS THE PRIMARY
PURPOSE OF THE ACTIVITY IS TO IMPOUND WAITER OR MANAGE HIGH FLOWS.

ALL PERMANENT AND TEMPORARY GROSSINGS OF WATERBODIES SHALL BE SUITABLY COLVERTED BY BRIDGED OF OTHERWISE ISSINGED AND CONSTRUCTED TO MAINTAIN LOW MANGEN TO SISTAIN THE MOVEMENT OF THOSE ADMATO SPECIES.

NATIONWIDE PERMIT GENERAL CONDITIONS
2. ALL PERMANENT AND TEMPORARY CROSS

MATERIAL USED FOR CONSTRUCTION OR DISCHARGED MUST BE FREE FROM TOXIC POLLUTANTS IN TOXIC AMOUNTS.

- 2. A COPY CHATOMORE REPRINT VEREINAL SPECIAL CONDITIONS AND THE SITE DURING CONSTRUCTION IN JANS NOTS THE KEY AT THE SITE DURING CONSTRUCTION, THE PERMITTER MILL SUPPLIA ACOPY OF THESE DOCUMENTS OF THESE DOCUMENTS OF THE RESPONSIBLE FOR CONSTRUCTION ACTIVITIES.
- 4. SHOULD NEW INFORMATION REGARDING THE SCOPE ANDIOR IMPACTS OF THE PROCED REGOME AND ALABLE THEN WAS NOT SUBMITTED TO THIS OFFICE DURING OUR REVIEW OF THE PROPOSAL. THE PERMITTER MINST SUBMIT WITHEN INFORMATION CONCENSING REPORDS IN DIPFER/TIONS TO THIS OFFICE FOR REVIEW AND EXPLANTION, AS SOON AS PROCEDABLE.

MIN 24" FOR TREES LESS THAN 12" DIA. MIN 36" FOR TREES GREATER THAN 12" DIA.

12.30IL EROSION AND SEDMENT CONTROLS. APPROPRIATE SOIL EROSION AND SEDMENT CONTROLS MAY SEE GESED AND MANTANIEDRIN FEFFCITIVE OPPERATING CONTION UND RIGHOUTON UND RIGHOUTON UND RIGHOUT HE DISTRICTION AND ALL EXPOSED SOIL AND OTHER HILLS. AS WELL AS WAY WORN BELOW THE ORDINARY HIGH HILLS AS WELL SE FERMANIEST SEE THE SELECT STRIBLED AT THE BARKLIST PRACTICABLE DATE FERMANIEST SEE FERMANIEST STRIBLED AT THE BARKLIST PRACTICABLE DATE FERMANIEST SEE FERMANIEST STRIBLED AT THE BARKLIST PRACTICABLE DATE SHE SHOUTON SEE FERMANIEST STRIBLED AT THE BARKLIST PRACTICABLE DATE SHE WITHOUT SEE ARE ENCOURAGED TO PERFORM WORK WITH WITHOUT SEE THE UNITED STRIBLED AT THE DUNE CONTIDER.

13.REMOVAL OF TEMPORARY FILLS. TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY
AND THE AFFECTED RARGA RETURNED TO PRE-CONSTRUCTION ELEVATIONS. THE AFFECTED
ARRAGA MUST BE REVICEITATED, AS APPROPAIATE.

14. PROPER MAINTENANCE. ANY AUTHORIZED STRUCTURE OR FILL SHALL BE PROPERLY MAINTANED. INCLUDING MANTENANCE TO REISNER PRICE SAFETY AND COMPLIANCE WITH APPLICABLE NWP GENERAL CONDITIONS. AS WELL AS ANY ACTIVITY-SPECIFIC CONDITIONS. ADD BY THE DISTRICT ENGINEER TO AN NUM AUTHORIZATION.

1. EQUIPMENT HEAVY EQUIPMENT WORKING IN WETLANDS OR MUDFLATS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE.

IO.THE ACTIVITY MUST COMPLY WITH APPLICABLE FEMA APPROVED STATE OR LOCAL FLOODPLAIN MANAGEMENT REQUIREMENTS.

- CONSTRUCTION ACTURES WILL BE REPORNED DIRECTOR CONDITIONS TO HE MAXIMUM EXTENT PRACTICABLE ADDITIONALLY.
 APPRIORIENTE SITE SPECIFIC BEST MANAGEMENT PRACTICES FOR SEGMENT AND ENGORISM CONTINGO. HEE FULLY INFERMENTED DURING CONSTRUCTION FACILY FIRST.
- 6. NO AREA FOR WHICH GRACING HAS BEEN COMPLETED WILL BE UNSEEDED ON UNDER CHARL A DAYS, ALL DISTURBED PREASS WILL BE ESEEDED AND/OR REVICEITABLE MITH MATIVE SPECIES AND APPROVED SEED MISS OWNER PREVENCIABLE, PATE COMPLETION OF CONSTRUCTION ACTIVATION OF THE ESTABLISHMENT OF NON-WAITNE SPECIES.
- 8. IN THE EVENT ANY PREMOUSLY UNKNOWN HISTORIC OR ARCHAEOLOGICAL STIES OF HUMAN FRAMMAS REW UNCHEED WHI.E. ECOMPLISHING THE ACITUITY AUTHORIZED BY THIS INATIONMICE PREMITE MUST CEASE ALL WORK IN WATERS OF THE UNITED STATES IMMEDIATELY AND CONTACT LOCAL, STATE AND COUNTY LAW ENFORCEMENT OF PREMED TO COMITY CONTACT LAW INFORCEMENT ON FINDINGS OF HUMAN REMAINS), THE CORPS AT 304-398-5210 AND OHIO STATE HISTORIC PRESERVATION OFFICE AT 614-298-2000.

2.DEGODEPTO, OP PREADUQUE, UNKNOWN HEARINAS AND AFTHEFACTS. IF OUR DISCOVERA ANY PREMOUSLY UNKNOWN HISTORIC, CULTURAL, OR ARCHEGLOGIAA, REMANS AND ARTHACTS WHELE ACCOMPLENING THE ACTIVITY CHOINGRED BY THIS PERMIT, YOU MAIST INMEDIATELY WHEN THE DISTRICT RIGHISER OF WHAT YOU HAVE FOUND, AND TO THE MAXIMUM EXTENT PRACTICABLE. AND FOUNDED THE PROPERTY OF THE PREMANS AND PRACTICABLE. AND FOUNDED THE PROPERTY OF THE PREMANS AND PRACTICABLE. AND FOUNDED THE PROPERTY OF THE PREMANS AND PRACTICABLE. AND FOUNDED THE PROPERTY OF THE PREMANS AND PRACTICABLE. AND FOUNDED THE PROPERTY OF THE PREMANS AND PRACTICABLE AND FOUNDED THE PROPERTY OF THE PRO

NATIONWIDE PERMITS REGIONAL GENERAL CONDITIONS

1. SEDMENT AND EPOSTON CONTROL MASSURES AND BEST MANAGEMENT PRACTICES MUST BE DESIGNED INSTALLED AND MANTANED IN EFFECTIVE OPERATIVG CONDITION AT ALL TIMES DURING SONSTRUCTIVE MEASURES WILL BE IMPLEMENTED FOR FALLED CONTROLS WITHIN 48 HOURS OF DISCOVERY. GENERAL LIMITATIONS AND CONDITIONS FOR ALL OHIO EPA 401 CERTIFIED NATIONWIDE PERMITS

- 2. FOR PERBINALAND WITEMITTENT STREAMS, INSTREAM SEDIMENT CONTROL MEASURES SHALL NOT BE UTILIZED, WITH THE EXCEPTION OF TURBIDITY CURTAINS PARALIEL TO THE STREAM BANK FOR THE PLENDED OF SEDIMENT COLLECTION, ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE ENTIRELY REMOVED AND THE NATURAL GRADE OF THE SITE RESTORED ONCE ONSTRUCTION IS COMPLETED.
 - 3. ALL ANOIDED WATER RESOURCES AND ASSOCIATED BUFFERSIRIPARIUM AREAS SHALL BE DEMARCATED IN THE FIELD AND PROTECTED WITH SULTABLE MATERIALS, SILT FENCING, SNOW FERCHED SHALL BE ENTRELY REMOVES GROWN TO SITE BUSINEMANCE. THESE MATERIALS SHALL REMAIN PLACE AND BE MANITANED THROUGHOUT THE CONSTRUCTION PROCESS AND SHALL BE ENTRELY REMOVED ONCE CONSTRUCTION IS COMMELTED.
- 4. DISTURBANCE AND REMOVAL OF VEGETATION FROM THE PROJECT CONSTRUCTION AREA IS TO BE AVIODED WHERE POSSIBLE AND MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. ENTRY TO SURFACE WATERS SHALL BE THROUGH A SINGLE POINT OF ACCESS TO THE MAXIMUM EXTENT PRACTICABLE TO MINIMIZE DISTURBANCE TO RIPARIAN HABITAT. UNAVIOIDABLE TEMPORARY IMPACTS TO PORESTED REPRIAN HABITAT SHALL BE RESTORED AS SOON AS PRACTICABLE AFTER IN-WATER WORK IS COMPLETE USING TREE AND SHRUB SPECIES NATIVE TO THE SPECIFIC ECCREGION WHERE THE PROJECT IS LOCATED.
- 5. ALL DREDGED MATERIAL PLACED IN AN UPLAND SITE SHALL BE CONTROLLED SO THAT SEDIMENT RUNOFF TO ADJACENT SURFACE WATERS IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.
 - 6. STRAW BALES SHALL NOT BE USED AS A FORM OF SEDMENT CONTROL UNLESS USED IN CONJUNCTION WITH ANOTHER STRUCTURAL CONTROL SUCH AS SLIT FENCING. STRAW BALES MAY BE UTILIZED FOR PURPOSES OF EROSION CONTROL SUCH AS DITFENCING.
 - 7. HEAVY EQUIPMENT SHALL NOT BE PLACED BELOW ORDINARY HIGH WATER MARK OF ANY SURFACE WATER, EXCEPT WHERE NO OTHER ALTERNATIVE IS PRACTICABLE.
- 9. CHROMATED COPPER ARSENATE (CCA) AND CREOSOTE TREATED LUMBER SHALL NOT BE USED IN STRUCTURES THAT COME INTO CONTACT WITH WATERS OF THE STATE. 8 TEMPORARY FILL FOR PURPOSES OF ACCESS OR STAGING SHALL CONSIST OF SUITABLE NON-ERODIBLE MATERIAL AND SHALL BE MAINTAINED TO MINIMIZE EROSION
- 10. ALL DEWATERING ACTIVITIES MUST BE CONDUCTED IN SUCH A MANNER THAT DOES NOT RESULT IN A VIOLATION OF WATER QUALITY STANDARDS.
- 11. ALL AREAS OF FINAL GRADE MUST BE PROTECTED FROM EROSION WITHIN SEVEN DAYS.
- 12 ALL DISTURBED AREAS WHICH REMAIN DORMANT IN EXCESS OF FOURTEEN DAYS MUST BE PROTECTED FROM EROSION WITHIN SEVEN DAYS FROM LAST EARTH DISTURBING ACTIVITY
- 13.11 IN THE VERYOR OF ALTHORIZED INSTRUME AGTURIES, PROVISIONS MISTER ESTABLISHED TO REDIRECT THE STREAM FLOW AROUND OR THROUGH ACTIVE AREAS OF CONSTRUCTION IN STRAULZED, NON-EROCKIE MANNIER TO THE MAXIMUM KTENT POSSIBLE.

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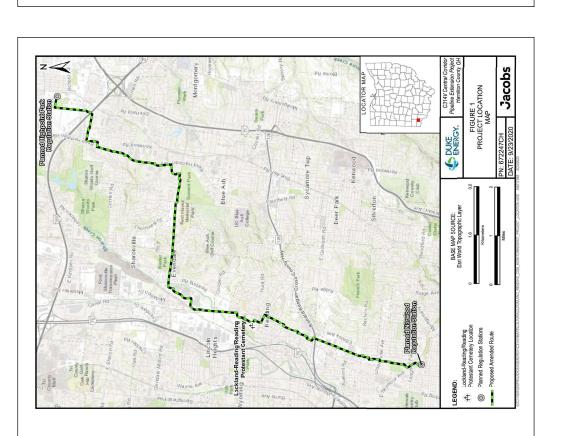
ISSUED FOR CONSTRUCTION

DUKE ENERGY. REGIONAL ENGINEER MGR TECH REC & STD PRINCIPAL ENGINEER /18/2020

ENVIRONMENTAL NOTES & DETAILS 4 HAMILTON COUNTY, OHIO C350 PROJECT

Piedmont Natural Gas

NONE		REVISIO	0	
DWG SCALE NC	ERSEDED	DRAWING NUMBER	-C-350-0001286	
SHEET(S) 4 OF 5	DWG DATE 09-05-2018 SUPERSEDED	DRAWING		CHAMILTON COUNTYIC350
SHEET(S)	DWG DATE (PNG	CHAMILTON





NOTES

NOTES

NEGROTOR OF THE INTERIOR (SOL)-QUALIFED ARCHAEOLOGIST
IS REQUISED TO SELEVENSE AND MONTON ALL
SROUND-JOST STREAM SACTIVITIES WITHIN 325 METERS (100 FEET)
OF THE LOCKLANDEACHANON REPORDED POPIETRY.
ARCHAEOLOGICAL, MONTON RELANDED REPORTED WHENEVER SROUND
ISPUTABANCE IS PANHED, INCLUDINGE DURING STREAM EXCANATION
ACTIVITIES INVOLVANOR REMOVAL OF ASSIMILIA REMOVAL OF ASTILL
OR ANN OTHER ACTIVITY THAT RESULTS IN PHYSICAL GROUND
EST THE ACTIVITY THAT RESULTS IN PHYSICAL GROUND
DEST THE ACTIVITY THAT RESULTS IN PHYSICAL GROUND

MONITORING ACTIVITIES INCLUDE THE FOLLOWING METHODOLOGY

- VISUAL INSPECTION OF THE APE WITHIN 30.5 METERS (100 FEET) OF THE CEMETERY.
- MAPPING, GPS RECORDATION, AND PHOTO DOCUMENTATION OF THE APE WITHIN 30.5 METERS (100 FEET) OF THE CEMETERY DURING GROUND-DISTURBING ACTIVITIES.
- ARCHAEOLOGICAL MONITORING OF ALL MANUAL AND MECHANICAL EXCANATIONS WILL BE CONDUCTED DURING GROUND DISTUBBANCE, WHEN ARTIFACTS ARE ENCOUNTERED, ARCHAEOLOGISTS WILL HAT EXCANATIONS AND RECORD THE CULTURAL DEPOSITS THROUGH PHOTOGRAPHS, PROFILE LLOCATIONS OF ARTIFACTS WITH A GPS UNIT CAPABLE OF SUBMIT RECORD THE LLOCATIONS OF ARTIFACTS WITH A GPS UNIT CAPABLE OF SUBMITER ACCURACY.
- ARCHAEDLOGICAL STAFF WILL MAINTAIN SYSTEMATIC RECORGS INCLUDING A DALLY MONITORING LOG. THE DALLY LOG WILL RECORD THE OBSERVATIONS MADE DURING MONITORING ACTIVITIES.

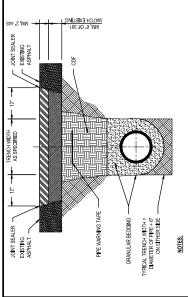


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C350 PROJECT
ENVIRONMENTAL NOTES & DETAILS 5
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OHIO

Piedmont
Natural Gas

			CHAMILTON COUNTY/IC350	CHAMILTON
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REVISI		DRAWING NUMBER	DRAW	
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NONE	NC	DWG SCALE	SHEET(S) 5 OF 5	SHEET(S)

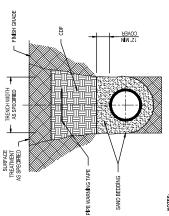


- ALL RESTORATION IN BLUE ASH RIGHT OF WAY SHALL BE MILLED AND PAVED TO A WIDTH OF 12. SEE PNG C-35C-0001294 FOR MILL AND PAVE DETAIL.
- APPLY GRANULAR BEDDING AROUND PPE AND BACKFILL TRENCH WITH A CONTROLLED DENSITY FILL (CDF) TO BOTTOM OF EXISTING ASPHALT.
- MINIMUM 6" OF 301 ASPHALT N 4" (MAXIMUM) LIFTS OR MATCH EXISTING ASPHALT CROSS SECTION APPLY MINIMUM 2" OF ITEM 448 ASPHALT SURFACE COURSE.
- APPLY ASPHALT IN SUCH A WAY THAT WHEN IT IS FULLY COMPACTED, THE EDGES ARE FLUSH. AND THE CENTER IS 1" HIGH, FOR FUTURE COMPACTION.
- SEAL ALL EDGES OF THE TRENCH WITH ITEM 702.17 JOINT SEALER.
- PPE WARNER CIVE SHALLER HEXTALED PREDAMELY 24-24-34-34-00-FPEIDLE CR AS OHERWISE RECOMMENDED IN MAINTENDURED, MITEMALS SHALL BE SIGNALIZHER ON SHALLER IN MONFROCINGE VANETY.

 TYPICAL UTILITY TRENCH AND SURFACE

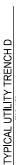
 TYPICAL UTILITY TRENCH AND SURFACE

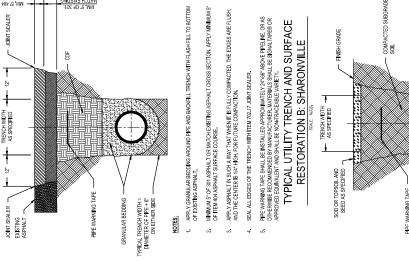
RESTORATION A: CITY OF BLUE ASH

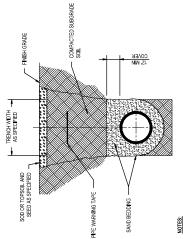


- NOTES:
- PIPE WARNING TAPE SHALL BE INSTALLED APPROXIMATELY 24"38" ABOVE FIPELINE, OR AS OTHERWISE ERCOMMENDED SY NAUNFACTURER, MATHEMS, SHALL BE SKSVALTAPE® OR APPROXED EQUINALENT AND SHALL BE NOWTRACERBLE WARETY.









- 1 PPE BEDDING SMLL BE CLEAN, GRADED SAND COMPACTED TO PROVIDE EVEN SUPPORT FOR PPE. APPROVED INTERFALS NOLIDE MTO STONE DUST OR SIMILAR BEDDING MATERIAL SHALL FULLY PROPPOLE PIPE.
- PIPE WARNING TAPE SHALL BE INSTALLED APPROXIMATELY 24"-38" ABOUF PIPELINE, OR AS OTHERWISE RECOMMENDED BY MANUFACTURER, MATERIALS SHALL BE SIGNALTAPE® OR APPROVED EQUIYALENT AND SHALL BE NON-TRACEABLE VARIETY.

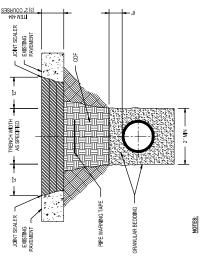
TYPICAL UTILITY TRENCH E



ROJECT ON DETAILS 1 OUNTY, OHIO

PNG -C-350-0001293 0

SHEET(S) 1 OF 3 DWG SCA DWG DATE 02/04/2020 SUPERSEDED REF DWG(S): PNG-G-350-000100

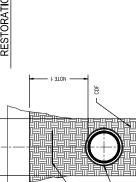


- 1. ALL RESTORATION IN CITY OF READING RIGHT OF WAY SHALL BE MILLED AND PAVED FROM CURB TO CURB. SEE PNG.C. 350-0001294 FOR MILL AND PAVE DETAIL.
- 2. ALL CONCRETE TO BE CLASS C 4000 P.S.I.
- SAW CUT EXISTING PAVEMENT FULL DEPTH ALL EDGES.
- REPLACE PAVEMENT WITH (3) 2" LAYER OF 404.
- BACKFILL SHALL BE CONTROL DENSITY FLOWABLE MATERIAL.
- SEAL ALL PAYEMENT EDGES.
- INSPECTOR MUST BE PRESENT DURING CONSTRUCTION.
 - COVER TRENCH WITH STEEL PLATE AS NEEDED.
- 9 STREET TO BE SWEPT CLEAN AT CONCLUSION OF CONSTRUCTION
- PPE WARNNG TAPE SHALL BE INSTALLED APPROXIMATELY 24:36" ABOVE PIPELINE. OR AS OTHERWISE RECOMMENDED BY MAINTEGNURSE, MATERIALS SHALLE BE SIGNALTAPE® OR PAPROVED EQUIVALENT AND SHALL BE NON-TRACEABLE VARIETY.

TYPICAL UTILITY TRENCH AND SURFACE RESTORATION C: CITY OF READING

TRENCH WIDTH AS SPECIFIED

FINISH GRADE



PIPE WARNING TAPE

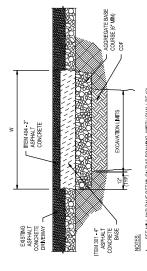
- 1. CDF BACKFILL SHALL EXTEND TO BOTTOM OF PIPE IF CROSSING EXISTING PIPE OR A MINIMUM OF 12 NOHES. NOTES:
- CDF SHALL BE PER HAMILTON COUNTY SPECIFICATION, CLSM SHALL BE EXCAVATABLE AND HAVE A COMPRESSIVE STRENGTH NO LESS THAN 100 PSI.

TYPICAL UTILITY TRENCH F



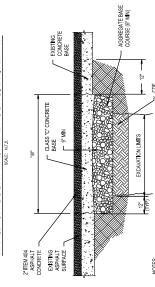
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APPROVALS	Portious -	MR4.8 -	MINGS

3/20/20



- SEE MILL AND PAVE DETAIL ON THIS DRAWING. WIDTH SHALL BE 12.
- WHERE ASPIRAT CONCRETE PARENEYT BEGOURD, THE EDGES ARE TO BE CLIT WITH A SAWIN IA NEAT STRAIGHT LIRE, ALL EDGES ARE TO BE SNEPT AND TACKED AND ALL JOINTS, AFTER THE SURFACE HAS BEEN PLACED. ARE TO BE SCALED WITH ACADIN A MANNERT O. ANOUD TRACKING.

SURFACE TYPE 1 RESTORATION STANDARD: HAMILTON COUNTY ASPHALT CONC. DRIVEWAY



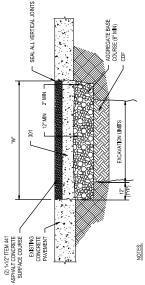
- SEE MILL AND PAVE DETAIL ON THIS DRAWING. WIDTH SHALL BE THAT OF THE AFFECTED LANE(S).
- THICKNESS OF ALL REPLACEMENT COURSES SHALL BE EQUAL TO EXISTING BUT SHALL NOT BE LESS THAN INDICATED.
- CONCRETE PAKEMENT SHALL BE SAWOUT AND REMOVED TO NEAREST JOINT TO PREVENT PARTIAL PAKE REMOVAL, WITH OF PAKEMENT REMOVAL SHALL BE MINIMUM Z BTHER SIDE OF UTILITY CENTERMEN RAND UP TO NEXT PAKEL MINIT.
- SAWCUTS THAT EXTEND OUTSIDE THE AREA OF REMOVAL AND REPLACEMENT SHALL BE FILLED WITH AN EPOXY BASED GROUT APPROVED BY THE ENGINEER.
 - FULL DEPTH SAWCUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE PATCHED. THE CUT SHALL BE MADE AT A RESHT ANGLE TO THE PAVEMENT EDGE AND TO THE CENTERLINE OF THE PAVEMENT.

LONGITUDINAL FULL DEPTH SAW CUTS SHALL BE AT EXISTING LONGITUDINAL JOINTS.

- ADDITIONAL SAWCUTS MAY BE REQUIRED WITH THE AREA OF THE PATCH TO FACILITATE REMOVAL OF THE CONCRETE OR TO ALLEMATE BINDING OF THE FULL DEPTH SAW CUT AT THE PATCH EDGE.

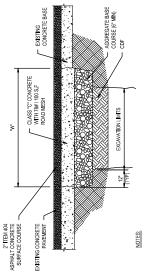
CINCINNATI, GOLF MANOR, AMBERLEY VILLAGE SEAL ALL EDGES OF RESTORATION WITH TIEM 702.01 - JOINT SEALER.

SURFACE TYPE 4 RESTORATION STANDARD:



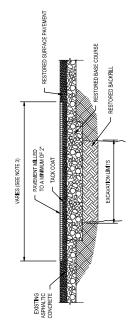
- ALL RESTORATION IN VILLAGE OF EVENDALE RIGHT OF WAY SHALL BE MILLED AND PAVED TO THE ENTIRE WIDTH OF THE AFFECTED LANE(S), SEE MILL AND PAVE DETAIL ON THIS DRAWING.
- EXCAVATION MUST BE REPLACED IN THE LIKE KIND OR BETTER.
- IF PACEMENT IS ASPIALT, REPLACE WITH 400T LESS THAN ET-251 WITH NO LIFT TO EXCEED 57-441-THAU COURSE TO BE TRIMIED AND ALL VERTICAL JOHNS TO BE SEALED. THE ABOVE IN ACCORDANCE WITH THE OHD OEPARTMENT OF TRANSPORTATION SECRETICATIONS.
- IF PAVEMENT IS CONCRETE, REPLACE WITH NOT LESS THAN 10° OF CONCRETE PLUS 6° CONCRETE UNDESCUT HAD VOETED IN WOOD READ OF THE TREM HAD OF THE OND DEPENDENT MEN TO FE THE WAS OFF AT IN ON SECE FLATIONS, OFF AT IS SPECIFICATIONS ALONG THE SAME.
- THE SERVICE DEPARTMENT SUPERNTENDENT MUST BE NOTIFIED A DAY IN ADVANCE OF RESTORATION WORK (6624338).

SURFACE TYPE 2 RESTORATION STANDARD: PERMANENT RESTORATION MADE WITHIN 3 DAYS AFTER STREET IS OPENED. VILLAGE OF EVENDALE



- WHERE ASPILLY CONCRETE PAREMENT IS REQUIRED. THE DIGES FARE TO BE CLIT WITH A SAW IN A NEAT STRAIGHT LINE, ALL EDGES ARE TO BE SNEPT AND TACKED, AND ALL JONIS, AFTER THE SURFACE HAS BEEN PLACED, ARE TO BE SEALED WITH ACCOR IN AMMERET O ANOD TRACKING.
- WHERE CONCRETE BASE IS REQUIRED. THE SURFACE SHALL BE FLOATED SMOOTH BY THE USE OF HAND FLOATS OR BULL FLOATS AND THE FINAL FINISH OR TEXTURING SHALL BE COMPLETED WITH A BROOM. 2

SURFACE TYPE 3 RESTORATION STANDARD: HAMILTON COUNTY ASPHALT CONC. SURFACE & CONC. BASE



- 1. THICKNESS OF ALL REPLACEMENT COURSES SHALL NOT BE LESS THAN THAT OF EXISTING COURSE.
- OVERLAY MATERIAL USED TO REPLACE MILLED SURFACE SHALL MATCH MATERIAL USED DURING RESTORATION.
- MILING WIDTHS VARY BASED ON LOCATIONMUNICIPALITY. SEE THE SELECTED RESTORATION TYPE FOR SPECIFIED WIDTHS.

MILL AND PAVE

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AMANDA PALM E-84075

C350 PROJECT RESTORATION DETAILS 2	HAMILTON COUNTY, OHIO
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DWG DATE 02/04/2020 SUPERSEDED	12/04/2020	S	PERSEDED	1	
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TIME FRAME TO APPLY EROSION CONTROLS.
WITHIN YOUR DAYS OF PLANST RECENT
DISTURBANCE IT THAT AREA WILL REMAN DIE FOR
MORE THAN ELORTEEN (14) DAYS.
WITHIN SELVEN ID JANS OF THE MOST
RECENT USD UDGANCE WITHIN THE AREA.

NOTE:
WHERE VEGETAIRE STABLEATION TECHNOLES MAY CAUSE STRUCTURAL INSTABLITY OR ARE OTHERWISE.
WHERE WHERE ALTERNATIVE STABLEATION TECHNOLES WIST BE ENPLOYED. THESE TECHNOLES MAY INCLUDE MALCHING OR EROSEM MATTING.

TEMPORARY STABILIZATION

AREAS REQUENO TEMPORARY STABILIZATION
ANY DISTURBED AREA WITHIN FETY (30) FEET OF A
STREAM AND NOT AT FINAL GRADE.

FOR ALL CONSTRUCTION ACTIVITIES, ANY DESTRUCTION ACTIVITIES, ANY DESTRUCTION SOIL.
STOCKHELS THAT WILL BE DORAWAT FOR MORE THAN FOURTER (14) DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN FITY (50) FEEL OF A STREUM.

WITHIN TWO (2) DAYS OF REACHING FINAL GRADE WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

ANY DISTURBED ARE WITHIN FIFTY (50) FEET OF A STREAM AND AT FINAL GRADE. AREAS REQUIRING PERMANENT STABILIZATION
ANY AREAS THAT WILL LE DORWANT FOR ONE
(1) YEAR OR MORE

ANY OTHER AREAS AT FINAL GRADE

TIME FRAME TO APPLY EROSION CONTROLS:
WITHIN SEVEN (7) DAYS OF THE MOST
RECENT DISTURBANCE

PERMANENT STABILIZATION

DISTURBED AREA THAY WILL BE DUE O'DES WANTER. PRIDA TO THE OWEST OF WINTER WEATH-ENNOURBER 1ST. NOTE.

WOTE. THE WEATHLE STABLEATION TECHNOLES MAY CAUSE STRUCTURAL INSTABLITY OR ARE OTHERWEE
UNDERFANGEL ATTENDENT BETAIN TECHNOLES WAS THE EINLOYDED. THESE TECHNOLES MAY
THE COMMON ON THE COMMON OF STRUCTURAL MAY THE.

For shaded areas

SEE BELOW

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ROUGH MIX NOTES:

Notes

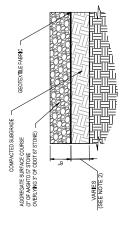
Seeding rate lbs/acre lbs/1,000 sq. ft

SEEDING SCHEDULE:

MIX TYPE

100-120 100-120

FINE Rememble Ruegnss 1
FINE Rememble Ruegnss 1
FINE Creeping Red Facture
ROUGH FESTUCA RAUNDINACEA 44
TALL FESCUA 44



TEMPORARY TOPSOL, STOCKPLE SHALL BE SEEDED AT A RATE OF 169 POUNDS OF PURE. LIVE SEED (PLS) PER ACRE IF LEFT UNDSTURBED FOR OVER 7 DAYS, SEEDING RATE SHALL. BE 80 LBSIACRE CEREAL RYE OR WHEAT PLUS 20 LBSIACRE ANNUAL RYEGRASS. PERMANENT SEEDING SPECIES AND RATES SHALL BE IN ACCORDANCE WITH THE SEEDING SPECIFICATION. ALL ACTIVITIES, MATERIALS, EQUPMENT AND PERFORMANCE IN CONNECTION WITH ESTABLISHING TURF SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

ACTIVITIES ASSOCIATED WITH APPLICATION OF LIME, SEED, MULCH, COMPACTING, WATERING, MANTENANGE AND PROTECTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.

STABILIZATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLES. PERMANENT/TEMPORARY

SEEDING, FERTILIZING, & MULCHING

MLV GRAVEL SURFACING

SURFACE COURSE MATERIAL NOTES:

- NONWOVEN GEOTEXTILE SHALL BE MIRAFI 140N OR ENGINEER APPROVED EQUAL.
- CONTRACTOR SHALL REMOVE TOPSOIL AND ROOT WASSES FROM MLY AREA, THEN REPLACE WITH ACCEPTABLE FILL MATERAL PET THE GEOFICHMALA, REPORT, COMPACT SUBGRADE, AND FLL LIMITERAL TO AT LEAST 85% MAXMAINA DRY DENSITY PER ASTM 8986. 2

AMANDA PALM E-84076 E-84076

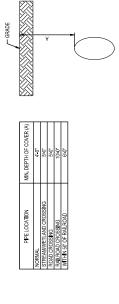
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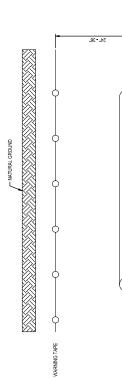
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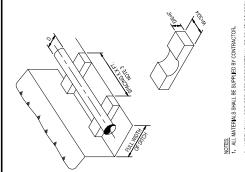
PIPELINE DEPTH OF COVER



- NOTES.

 1. WARNING TAPE DEPTH MAY VARY BASED ON MANUFACTURER RECOMMENDATIONS OR AS OTHERWISE DIRECTED BY COMPANY.
 - 2. WARNING TAPE INSTALLATION NOT APPLICABLE FOR TRENCHLESS INSTALLATIONS.
- 3. PPE WARNING TAPE SHALL BE NISTALED APPROXIMATELY 21*35"
 ADOUG PPELLIO, CR AS OTHERINGE RECOMMENDED BY
 MANUFACTHER, MITTERLS SHALL BE SIGNAL TAPER OR APPROVED
 EQUIVALENT AND SHALL BE NON-TRACEABLE VARIETY.

UNDERGROUND WARNING TAPE INSTALLATION DETAIL





- 1. GEOTEXTILE PIPELINE WEIGHT TO BE 5000 POUNDS.
- 2. GEOTEXTILE PIPELINE WEIGHT TO BE SPACED EVERY 34".
- 3. GEOTEXTILE PIPELINE WEIGHT TO BE FILLED WITH SAND OR GRAVEL.
- 4. GEOTEXTILE PIPELINE WEIGHT VENDORS TO BE PIPESAK OR ECOBAG OR APPROVED BY OWNER.
- 5. ROCK SHELD SHALL BE APPLIED IN ALL LOCATIONS WITH BUDYANCY CONTROL.
- 6. SPACING REQUIREMENTS SHALL ROUND CONSERVATIVELY OR EXTEND BEYOND PLANS DELINEATED WIDTH.

WIDTH SHALL BE NOREASED PROPORTIONAL TO SPACING INCREASE IF REQUIRED.

3. SPACING TO BE 20' FOR 20" PIPE.

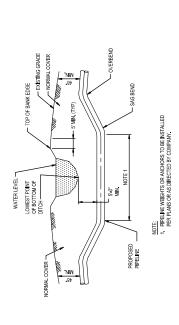
GEOTEXTILE PIPELINE WEIGHT

TYPICAL PIPELINE SUPPORT PILLOWS

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TYPICAL OPEN CUT STREAM CROSSING





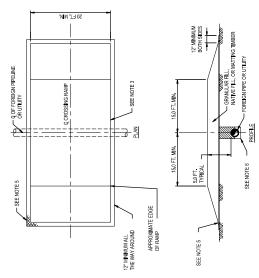


NOTES

TO PREMIE LOCATIONS & DEFINE TO CONFINANCE OF PELECTRONIC MENNS IN

A. POWANCE OF PRELIAC CONSTRUCTION AND CONFINEED BY CARGOLLY EXPOSING BY HAND
DISCHARWING WHERE WITHIN 25" IN ANY DESCRION FROM THE PPELINE.

- OWNER OF FOREIGN PPELINE(S) SHALL BE NOTFIED 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
- TEST LEAD STATION TO BE INSTALLED WHERE PRACTICAL AT THE NEAREST FENCE, HEDGE ROW ON FFELD BODGE, AND WHERE FRACIAL VACCESSBLE, INSTALL PERAMAHENT REFERENCE CELL AND EXTEND CELL LEAD OT TEST LEAD STATION.
- DEPTH OF PIPELINE INCLUDING 2°0°MN. CLEARANCE SHALL BE MANTAINED FOR ALL FULL ANGULAR WIDTH OF FOREIGN PIPELINE R.O.W.
- PROPOSED PPELINE MAY ONLY CROSS ABOVE THE FOREIGN PIPELINE(S) WHERE REQUESTED BY OR APPROVED BY FOREIGN OWNER IN WRITING.



GEDTELLE RIBBA, MOSCUTTELLE GAN WERE EQUEBLE AND LEN BRAILED TO PROTECT MITE TO PROTECT WITH TO SECURIFIED BY COMPANY SUBSCIOL WEBSTON WINGTHED CHANLED BY COMPANY SUBSCIOL FILL MATERIAL BY UTILIZED, MEORTED GRANULAR FILL OR WATHER SUBSCIOL FILL MATERIAL BY UTILIZED, MEORTED GRANULAR BY DIRECTED BY COMPANY STERRISENTATIO. BE REMOVED AND DEPOSED OF A BACKGOOD AND DEPOSED OF THE SEASON OF THE S

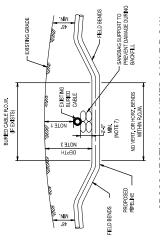
4. ON COMPLETION OF CONSTRUCTION CONTRACTOR TO REMOVE COMPLETE RAMP AND RESTORE AREA TO THE SATISFACTION OF THE EXISTING PIPELINEUTL. TY COMPANY AND THE COMPANYS NSPECTOR.

LENGTH OF RAMP TO VARY IN ACCORDANCE WITH CROSSING ANGLE MINIMUM CROSSING ANGLE TO BE 45 DEGREES.

3. VEHOLES OR EQUIPMENT USING CROSSINGS SHALL PROCEED SLOWLY AND WITH CAUTION TO MINIMIZE IMPACT LOADING AND REDUCTION ON DEPTH OF COVER OVER PIPEUTILITY.

1. CONTRACTOR TO NOTIFY EXISTING PIPELINE/UTILITY COMPANY PRIOR TO INSTALLATION OF CROSSING RAMP.

TEMPORARY RAMP CROSSING



CROSS SECTION OF BURIED CABLE R.O.W.

IN ROCK TERRAÎN THE CONTRACTOR SHALL, UNDER THE EXISTING PIPELINE COMPANYS SUPERVISION, EXPOSE THE TOP HALF OF THE PIPE AND BACKFILL WITH COMPACTED SAND OR APPROVED SOIL.

NOTES.
1. BINED ONGE LOCATIONS A PIPE DEPTHS TO BE DETENMED BY ELECTRONIN MEANS IN SUMMOVINGE OF PIPELINE CONSTRUCTION AND CONFINED BY CAREFULLY EXPOSING BY HAND DIGGNO WHEN WITHIN 2"Y NAITY DIRECTION FROM THE PIPELINE.

- OWNER OF BURIED CABLE(S) SHALL BE NOTIFED 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
- - DEPTH OF PIPELINE INCLUDING 2-0" MIN. CLEARANCE SHALL BE MAINTAINED FOR THE FULL ANGULAR WIDTH OF BURIED CABLE R.O.W.
- 5. CONTRACTOR TO SUPPORT EXPOSED CABLE WITH WOOD PLANK OR STRUCTURAL STEEL DURING CONSTRUCTION. 4. PROPOSED PIPELINE MAY ONLY CROSS ABOVE BURIED CABLE(S) WHERE APPROVED IN WRITING BY BURIED CABLE OWNER.
 - 6. CONTRACTOR TO UTILIZE CAUTION WITH PLACEMENT OF BACKFILL TO MINIMIZE POSSIBLE DAMAGE TO THE CABLE.

EIGN PIPELINE	
CROSSING FOREIGN	

CROSS SECTION OF FOREIGN P/L R.O.W.

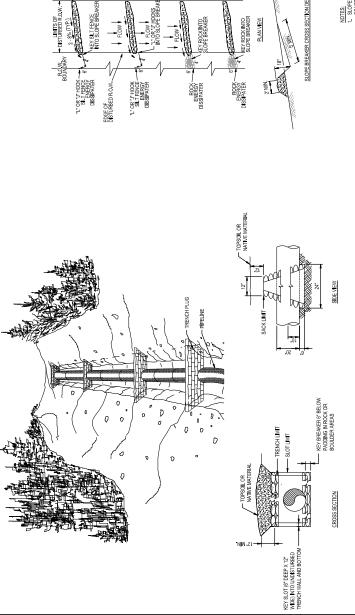
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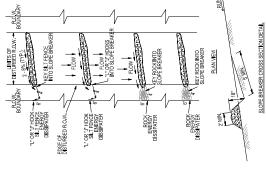
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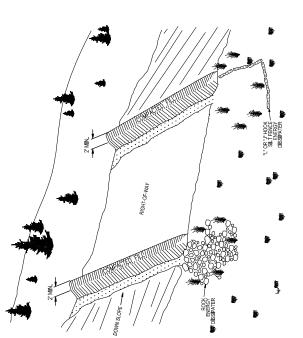
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NOTES. 1. SIGNE SPEAKERS SHALL BE CONSTRUCTED OF COMPACTED NATIVE SOIL AND INSTALLED AT LOCATIONS AS REQUIRED BY DUKE CONSTRUCTION STANDARDS OR AS DIRECTED BY THE COMPANY'S REPRESENTATIVE.

- 2. SLOPE BREAKERS SHALL BE ORIENTED AS SHOWN OR OTHER PATTERN AS DIRECTED BY THE COMPANY'S REPRESENTATIVE TO DIRECT THE WATER OFF THE ROHLLOS-MAY.
- 4. THE SLOPE BREAKERS SHALL BE 16" DEEP AS MEASURED FROM THE TROUGH TO THE TOP OF THE SLOPE BREAKER), THE THROUGH WILL BE A MINIMAM OF 6" WIDE A GROSS THE WIDTH OF THE RIGHT-OF-WAY.
 - 5. THE OUTLET OF THE SLOPE BREAKER MUST FREELY DISCHARGE ALL RUNGFF OFF THE DISTURBED RIGHT-OF-WAY INTO AN EMERGY DISSIPATER.
- WHERE SLOPE BREAKERS EXTEND BEYOND THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY TO DRECT RUNOFF INTO STABLE, WELL VEGETATED AREAS, THESE LOCATIONS MUST BE APPROVED BY THE COMPANY'S REPRESENTATIVE.

- ROWENERGY DSSPATEN MOTES

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 1. THE OUTES SHALL CONTAIN AN ENGEN THE SCHOOL OF SERVICES SHALL BE CONSTRUCTED AS FOLLOWS:

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 1. PROVIDE ENOUGH MAEA. NSIDE 'L' TO CAPTURE AND HOLD SEDIMENT.

4. ALL MATERIALS SHALL BE SUPPLIED BY CONTRACTOR.

3. PLUG SPACING AND CONFIGURATION MAY BE CHANGED AS DIRECTED BY COMPANY, DEPTH OF DITCH MAY WARY WITH SITE CONDITIONS.

PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH DUIGE CONSTRUCTION STANDARDS AND AS DIRECTED
 PYCHONANY'S INSPECTION, EACH SERVER AS MALE THILD FOR PURKER HEIGH OF ULB ASCAS FILLED WITH MINIMAL OF 56BS OF SUSCIL, SHAD OF MALICHIEF OF FARMER SAND OF SUSCIL, SHAD FERMICHED BY COMPANY'S REPRESENTANE.
 SUSCIL, SHAD OF MALICHEE OF FRACT CEMENT TO FARTIS SAND OF SUSCIL, AS DETERMINED BY COMPANY'S REPRESENTANTE.
 POLYVIRETHAME FOAM BREAKERS MAY BE USED IN LEIL-OF SICK BREAKERS, WHEN APPROVED BY COMPANY'S REPRESENTANTE.

NOTES

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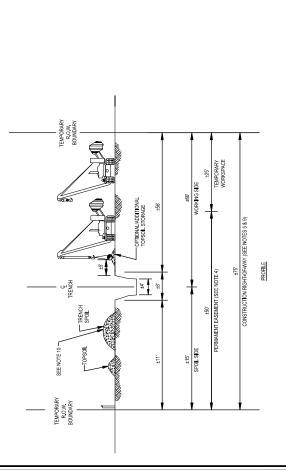
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TYPICAL TRENCH PLUG

TYPICAL SLOPE BREAKER

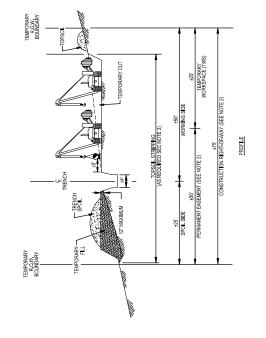
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- NOTES:
 1. OTLECT HE THENCH ONLY TOPSQL SALWAGE METHOD AT LOCATIONS SLCH AS RIPARIAM
 AREA GOR MANAMAGED WOODLAND, WHERE IDENTIFIED ON THE CONSTRUCTION DRAWNINGS,
 OR AS DIRECTED BY THE COMPANY'S REPRESENTATIVE.
 - THE TRENCH ONLY METHOD IS NOT TO BE USED ON AGRICULTURAL LAND EXCEPT AS DIRECTED BY THE COMPANY INSPECTOR. (PER LANDOWNER REQUEST).
- FOR TRENCH ONLY STRIPPING, THE STRIPPED AREA SHALL BE WIDE ENOUGH TO ACCOMMODATE TRENCHING EQUIPMENT.
- CONSTRUCTION RIGHT-DE-JMAY WILL TYPICALLY BE 80 FEET WIDE CONSISTING OF 30 FEET OF PERMANENT SERVICE STEPN LEINFORDSHAP WORKS AS SOCKET HEINFORGHEN WORK SPOCKET WILL BE NEED-SEARCH AT MAJOR ROOM, BATA AND RIGHER GROSSINGS AND OTHER SPECIAL CHICLUSTANCES, AS FEGURED, CERTAIN STUATHONS MAY REQUIRE A MARROWER MOTH.
- STOCKPILE TOPSOIL AS SHOWN OR IN ANY CONFIGURATION APPROVED BY THE COMPANY'S INSPECTOR. KEEP TOPSOIL CLEAN OF ALL CONSTRUCTION DEBRIS.
- LEAVE GAPS IN TOPSOIL AND SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT PUSH TOPSOIL INTO CREEKS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING. AVOID SOALPING VEGETATED GROUND SURFACE WHEN BACKFILING SPOIL AND TOPSOIL PILES.
 - SAME LAYOUT APPLIES WHERE CONSTRUCTION R.O.W. DOES NOT ABUT EXISTING R.O.W.
- TEMPORARI, Y SUSPEND TOPSOIL HANDLING OPERATIONS DURING INCRONATELY WINDY CONDITIONS UNTIL MITHATIVE INEASURES. TO MINIMIZE WIND EROSION GAN BE IMPLEMENTED.
- TOPSOL AND TRENCH SPOL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANY'S INSPECTOR, BE REVERSED.

TYPICAL 75' WORKSPACE TOPSOIL SEPARATION



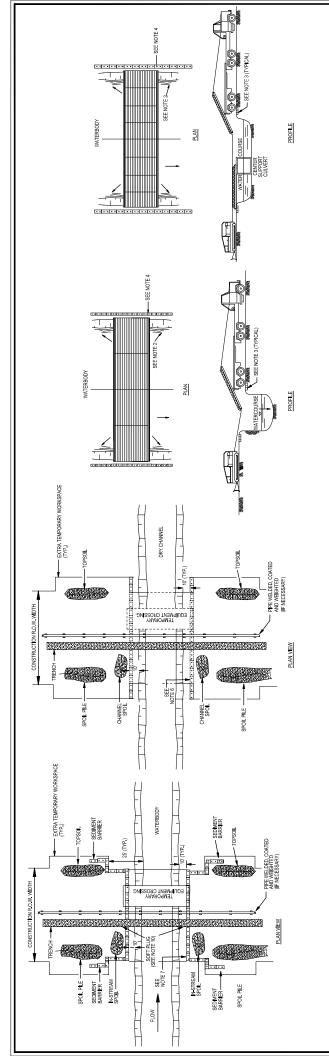


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TYPICAL SIDE HILL CONSTRUCTION

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- 10D APPLIES TO WATERBODIES THAT ARE NOT STATE DESIGNATED FISHERIES WHERE FLUME CROSSINGS
- 1.1 FTOROGRAPH PERMITS TELPORARY EQUIPMENT BREGE NISTALIATION. THE CONTRACTOR SHALL TREACH. STRANG, BLOOD, VIGNED IN EXCESSARY, LOWER HAD BACKFILL UTILIZANG THE MAIN LINE CERCEN TRANSLENG OF THE REBOXE.

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SING CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE. SING BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED IS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.

TYPICAL FLOWING WATERBODY CROSSING OPEN CUT TRENCHED

CROSSING OPEN CUT TRENCHING

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HOD APPLIES TO CROSSINGS WHERE NO FLOWING WATER IS PRESENT AT THE TIME OF

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 1. THE TIPE OF BEDGEE B GENERALLY USED ON NARROW, DEEP CROSSINGS.

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- DISPOSE OF ANY ROCK AS DIRECTED BY THE COMPANY REPRESENTATIVE.
 RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

- NOTE:

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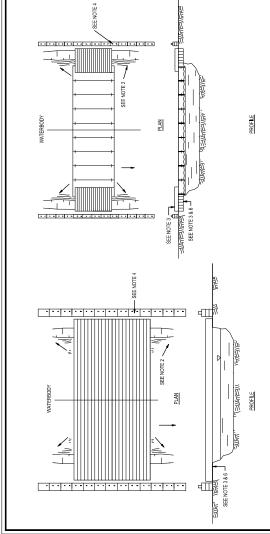
TYPICAL PORTABLE WATERBODY BRIDGE

TYPICAL PORTABLE WATERBODY BRIDGE WITH CULVERT SUPPORT

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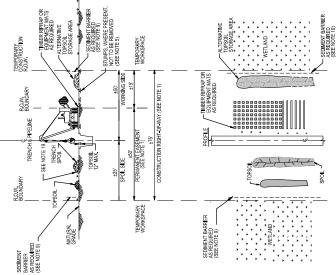
- THE TYPE OF BRIDGE IS CENERALLY USED ON NARROW CROSSINGS, LESS THAN 20 FEET WIDE WITH THE APPROPRIED BANK CONFIGURATION, MULTIPLE MATS MAY BE LAYERED FOR HEAVIER EQUIPMENT CROSSINGS.
- BRIDGE IS ANCHORED ANDIOR TIED OFF TO ANCHOR BLOCKS FOR STABLITY. BRIDGE SHOULD BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE TO USE.
- F REQUIRED UTILE APPROACH FILLS OF CLEAN GRANULAR MATERIAL, SWAMP MATERIAL, SWAMP MATERIAL, SWAMP MATERIAL SWAMP MATERIAL SWAMP MATERIAL SWAMP MATERIAL SWAMP SACCHIED, BRINGER THAY TILL MATERIAL IF USED DOES OPERATION WITH TROUBLING BRANCHAL OF DIRT FROM DECK DURNING OPERATION.
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- DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
- RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL TIMBER MAT WATERBODY BRIDGE

UTLEE APPROACH FILS OF CLEAN GRANULAR MATERIAL, SWAMIP MATS, SKIDS
OR OTHER SUTMER METHERALS TO AND COUTING HEE BANKS WHEREVER
FEASIBLE, ENSURE ADEQUATE REEDONED, AS REQURED, ENSURE THAT FILL
MATERIAL, FUSED, DOES NOT SPIL INTO WATERCOURSE. BRIDGE IS ANCHORED AND/OR TIED OFF TO ANCHOR BLOCKS FOR STABILITY. THIS TYPE OF BRIDGE IS GENERALLY USED ON WIDE, DEEP CROSSINGS

- OWERLING SETHAGEN BARBERS ACROSS THE BUTTLE CONSTRUCTION ROLM.
 TO PREJECT SET LOGEN WHER AND SPOL TROM TONING BACK INTO
 WAITEROOV, BARBERS IAN RE TEMPORAL Y REMOVED TO ALLOW
 WAITEROOV, BARBERS IAN RE TEMPORAL Y REMOVED TO ALLOW
 DAY, SET TEMPORATIVE BUT MUSS OR SANDBACK MAY BE USED WITEROUNDEAD HOW, SAT TEMPOR THE WELS ON TRANSMISSION AND WELLS ON SANDBACK MAY BE USED WITEROUNDEAD.
- DISPOSE OF ANY ROCK AS DIRECTED BY COMPANY REPRESENTATIVE.
- RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.

TYPICAL FLEXI-FLOAT WATERBODY BRIDGE

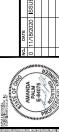


- CONSTRUCTION RICHT-OF-WAY WILL TYPICALLY BE 75 FEET OF TEMPORARY OF 50 FEET OF TEMPORARY WORKSPACE.
- THE SAME LAYOUT APPLES WHETHER CONSTRUCTION R.O.W. DOES OR DOES NOT ABUT A FOREIGN R.O.W.
- LOCATE ANY EXTRA TEMPORARY WORK SPACE AREAS AT LEAST 25 FEET FROM EDGE OF WETLAND AND WITHIN THE APPLICABLE FULL WIDTH CONSTRUCTION R.O.W.
- CLEARING OF VEGETATION AND TREES IS PROHIBITED BETWEEN TEMPORARY EXTRA WORK SPACE AND THE EDGE OF THE WETLAND
- CUT VEGETATION AND TREES OFF AT GROUND LEVEL LEAVING EXISTING ROOT SYSTEMS IN PLACE WHEREVER PRACTICABLE, AND REMOVE CUTTINGS FROM THE WETLAND FOR DISPOSAL.
- LIMIT CONSTRUCTION EQUIPMENT TO ONE PASS THROUGH WETLANDS TO THE EXTENT PRACTICABLE.
- NO REFUELING OF EQUIPMENT WITHIN 100 FEET OF WETLAND EXCEPT IN ACCORDANCE WITH THE SPCC PLAN.
- IF SATURATED AT TIME OF CONSTRUCTION, REDUCE SOIL COMPACTION BY UTILIZNG WIDE-TRACK OR BALLOON TIRE. CONSTRUCTION EQUIPMENT OR NORMAL EQUIPMENT OPERATED ON TINBER RIPRAP OR EQUIPMENT MATS.
 - AVOID ADJACENT WETLANDS, INSTALL SEDMENT BARRIERS MARENATELY AFTER INTIAL GROUND DISTURBANCE AND AT THE EDGE OF THE CONSTRUCTION ROAM, ALONG THE WETLAND AS DRECTED BY THE COMPANYS INSPECTIVE.
- - THIS DRAWING REFLECTS "TRENCH ONLY" TOPSCIL, STRIPPING PROCEDURE FOR AREAS WHERE STANDING WATER OR SATURATED SOIL ARE NOT PRESENT. 0
- 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 PLES AT OBVIOUS DRAINAGES. DO NOT USE TOPSOIL FOR PADDING. AVIDID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING SPOIL PILE.
- IN UNSATURATED CONDITIONS, SPOIL MAY BE USED TO STABILIZE THE 13
- IF SATURATED AT TIME OF CONSTRUCTION, LEAVE HARD PLUGS AT THE EDGE OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
 - TRENCH THROUGH WETLANDS.

PLAN VIEW

- LOWERAN PIPE, INSTALL TRENCH BREAKERS AT WETLAND EDGES AS DIRECTED BY THE COMPANYS INSPECTOR TO PREVENT DRAINAGE. BACKFILL UPON COMPLETTON OF CONSTRUCTION.
- 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
- IF STANDING WATER IS NOT PRESENT, SEED AS SPECIFIED.
- TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANYS INSPECTOR, BE REVERSED.

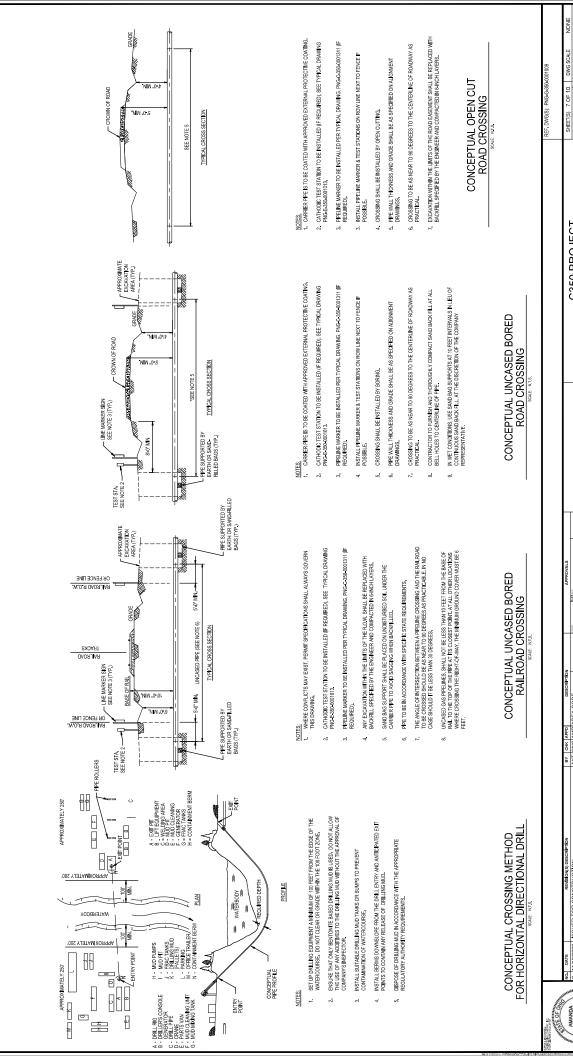
TYPICAL WETLAND CROSSING



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	CONSTRUCTION DETAILS 6	HAMILTON COUNTY, OHIO	HAMILTON COUNTY, OHIO
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C350 PROJECT CONSTRUCTION DETAILS 7 HAMILTON COUNTY, OHIO

Piedmont Natural Gas

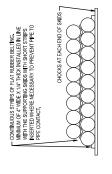
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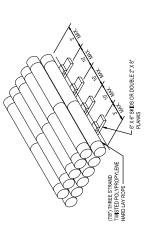
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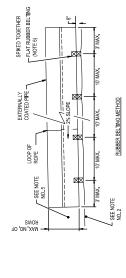
AMANDA PALM E-84075

DWG DATE 09-05-2018 SUPERSEDED

	PPE GREATER THAN 20" WILL BE. ROWS.						
CIRCUMFERENCE OF FINISHED LOOPS	.09	.99	72"	80"		.86	
'A' (NO. OF ROWS)	2	+ 4	4	4	4	4	
SIZE	18.	20.	24"	32"	36"	42"	
CIRCUMFERENCE OF FINISHED LOOPS	16"	24"	30"	37"	43"	54"	
'A' (NO. OF ROWS)	12	10	8	9	9	5	
SIZE	4	.9	φo	10.	12"	16"	

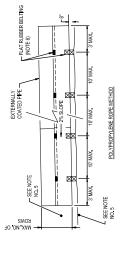






(7/8") THREE STRAND TWISTED POLYPROPYLENE HARD LAY ROPE

4*x8* SKIDS OR DOUBLE 2'x8* PLANKS SPIKED TOGETHER



		4,	35.	
	DANC	.9	30" 34"	
	SCORI	50	30"	
	N AC	ė	37.	
S	AL BI	12.	43"	
97	M) SH G TAE	16"	54" 43"	
ICE OI	NWO.	20.	.99	
FEREN	PS (M	24" 20"	.08	
SIRCUMFERENCE OF LOOPS	E OF LOOPS (MINIMUM) SHALL WITH THE FOLLOWING TABLE	30.	.86	
5	THE CIRCUMFERENCE OF LOOPS (MINIMUM) SHALL BE IN ACCORDAN WITH THE FOLLOWING TABLE	PIPE O.D.	CIRCUMFERENCE OF FINISHED LOOPS	

- NOTES

 THE USE OF THE RUBBER BELTING METHOD OR THE DOLYROPHENE ROPE METHOD TO PREVENT PIPE TO PIPE CONTACT IN THE STOCKHEL SHALLE BE AD INFECTED BY THE COMPANY.

 SINCH GE RANDED TO SE, SLOPE AND ADDIODION THE OFF THE NAME AND CLOSE CONTACT THROUGHOUT ENTIPE LENGTH TO PREVENT BY AND TO BE CAVEFULLY COME TO SECONDATE OF THE STOCKHEL SHALLE BY TO SECONDATE OFF SECOND

ROPE RESTAUTURE ROPE SOLID BE A MAXIMA OF FEET FROM THE FPE ENDS AND A MAXIMA. OF FEET FROM GIRTH VIELDS. THE INTERVIL BENNERN HANGS SHOULD BE ERIVERN OF FEET AND 25 FEET WITH A MINIMU OF FOUR CODES SPACED ONER A STANDARD DOBBLE RANDOM INFORM FALEST, THE INTERVALS MUST BE ALGOSTED TO ROBE THE FIRE IN OI PIPE TO THE CONTACT, ROPE ENDS SHALL BE TISSED WITH A BLOW FORCH PRISE TO SLEPPING. THE OLD FOUR THE FIPE.

TYPICAL PERMANENT PIPE STOCKPILE

TYPICAL TEMPORARY PIPE STOCKPILE SOME NITS.

ROCE RESULUCING

NOVE SHACKS SHOULD BE A MANAMAN OF STEET FROM THE PIPE BIDGS AND A MANAMAN OF STEET FROM GIFTH HIS LOS. THE
NOVE SHACKS SHOULD BE RETINEEN WHEN HIS HAND SHEET WITH A MANAMAN OF FOUR LODGS SHACED ONERS A STANDARD
NOVEMBER AND HIS HAND HIS THE THE MET THE ALLOSS THE STANDARD
NOVEMBER AND HIS HAND HIS THE STEET OF SHEET SHEET FROM THE CONTROL NOVE BIDGS
SHALL BE FUSED WITH SADON TROCK PRANT OS SHEPHED THE COSP OF SHEET FIRE SHOW THE COSP PRANT OF THE COSP OF SHEET FIRE SHEET SHEET SHOW THE SHEET S

5. EARTHEN BERMS WILL BE ACCEPTABLE ALTERNATIVES AS APPROVED BY COMPANY REPRESENTATIVE.

4. ALL MATERIALS SHALL BE FURNISHED BY CONTRACTOR. 3. NUMBER OF ROWS TO BE SPECIFIED BY COMPANY.

THE USE OF ALTERNATE METHODS FOR STOCKFILING PIPE AND/OR THE USE OF ALTERNATE MATERIALS FOR PREVENTING PIPE TO PIPE CONTACT SHALL REQUIRE THE APPROVAL OF THE COMPANY REPRESENTATIVE.

NOTES: 1. ALL PIPE THAT IS SURPLUS AFTER A CONSTRUCTION PROJECT MUST BE PERMANENTLY STOCKPILED.

MINIMUM 2 CHOCKS PER PIPE

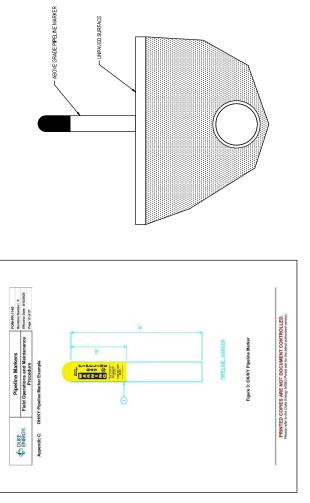
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AMANDA PALM E-84075

Piedmont Natural Gas

C350 PROJECT CONSTRUCTION DETAILS 8 HAMILTON COUNTY, OHIO

SHEET(S) 8 OF 10 DWG SCALE		NONE
DWG DATE 09-05-2018 SUPERSEDED	UPERSEDED	
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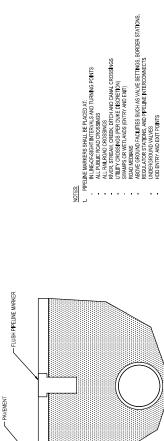
NOTE:

WHEN PPELINE MARKERS TO BE INSTALLED IN GRASS OR UNPAVED AREAS

WHEN PPELINE MARKER IS REQUIRED.

2. PIPELINE MARKERS SHALL BE INSTALLED PER FOM-PR-1140.

ABOVE GRADE PIPELINE MARKER



NOTE:
1. FLUSH PPELNE MARKERS TO BE NSTALLED N PAYEMBNT WHEN PPELINE
MARKER ES REQUIPED.

FLUSH PIPELINE MARKER

3. SET MARKERS AS SOON AS PRACTICAL AFTER THE INSTALLATION OF THE PPELINE. MAKE EVERY EFFORT TO PROVIDE MARKERS BEFORE VEGETATION IS RE-ESTABLISHED AFTER CONSTRUCTION. **PIPELINE MARKER LOCATIONS**

2. PIPELINE MARKERS SHALL BE PLACED DIRECTLY ON TOP OR WITHIN 24 INCHES OF THE PIPELINE.

- 1. CONSTRUCTION FENCE SHALL BE INSTALLED ALONG THE CONSTRUCTION BOUNDARY
 DECEPT FOR THE FOLLOWING LOCKTONS
 A. NO FENCE RECURS BLOCKES SHOWER
 B. CONSTRUCTION BOUNDARY IN ROAD SHALL BE BARRICHED IN ACCORDANCE
 C. OTHER SHALL BE BARRICHED ON BEAU.
 C. OTHER SHALL BE FRAINGHING SHALL BE BARRICHED IN ACCORDANCE
 C. OTHER SHALL BE REBIONABLE SHOULD SHALL BE BARRICHED IN BURNEL BEAU.
 2. FENCE SHALL BE REBIONABLE FOR RESIDENTIAL AND COMMERCIAL DRIVE ACCESS.

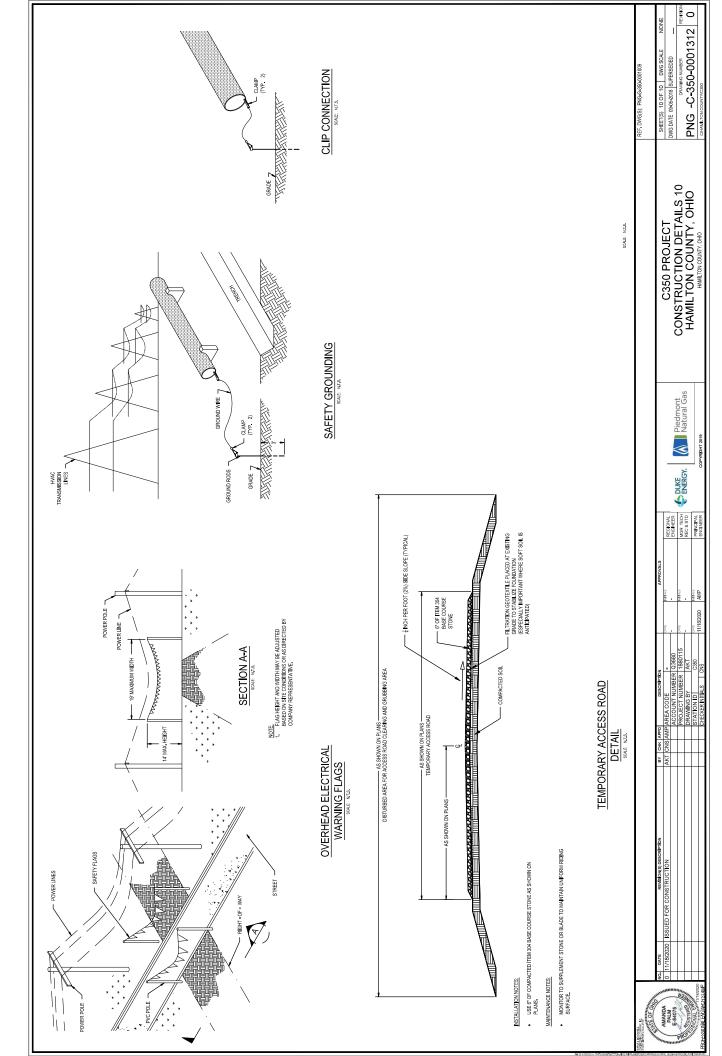
CONSTRUCTION BOUNDARY BARRIER

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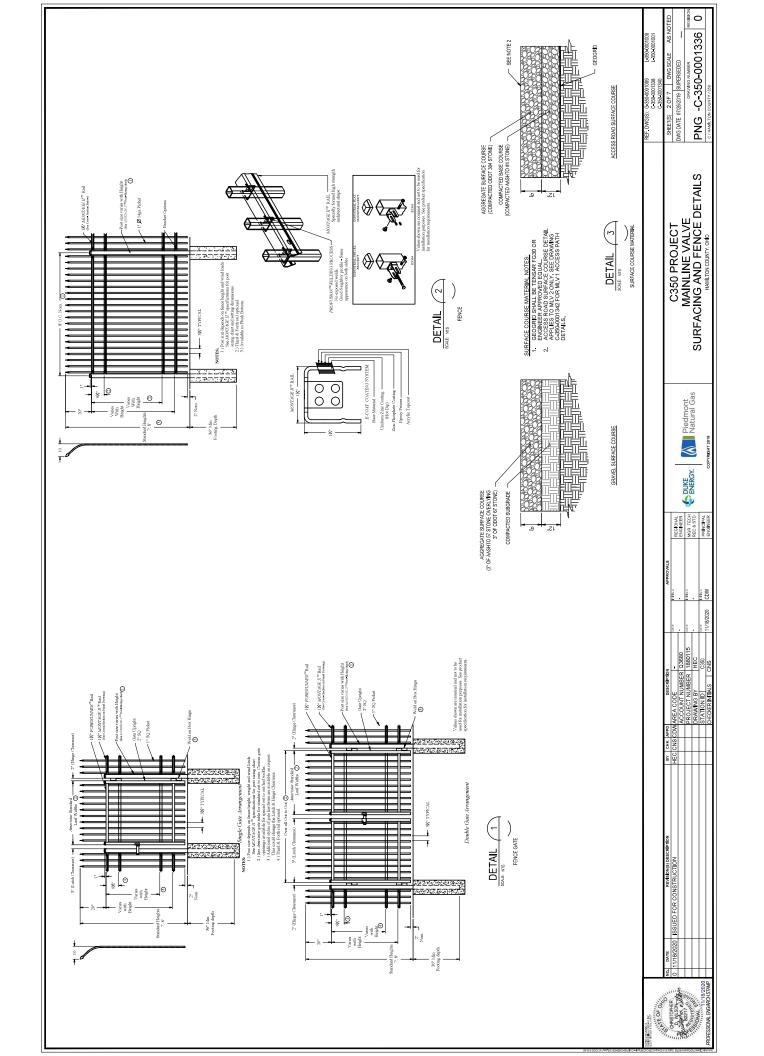
C350 PROJECT CONSTRUCTION DETAILS 9 HAMILTON COUNTY, OHIO	HAMILTON COUNTY, OHIO
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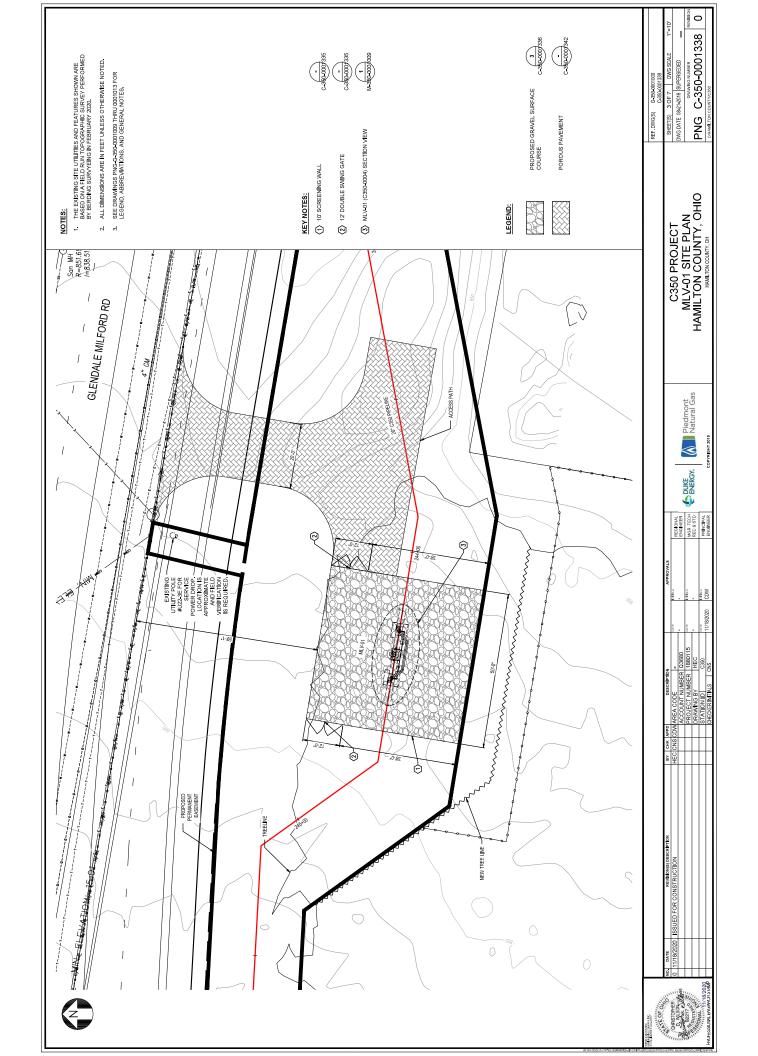
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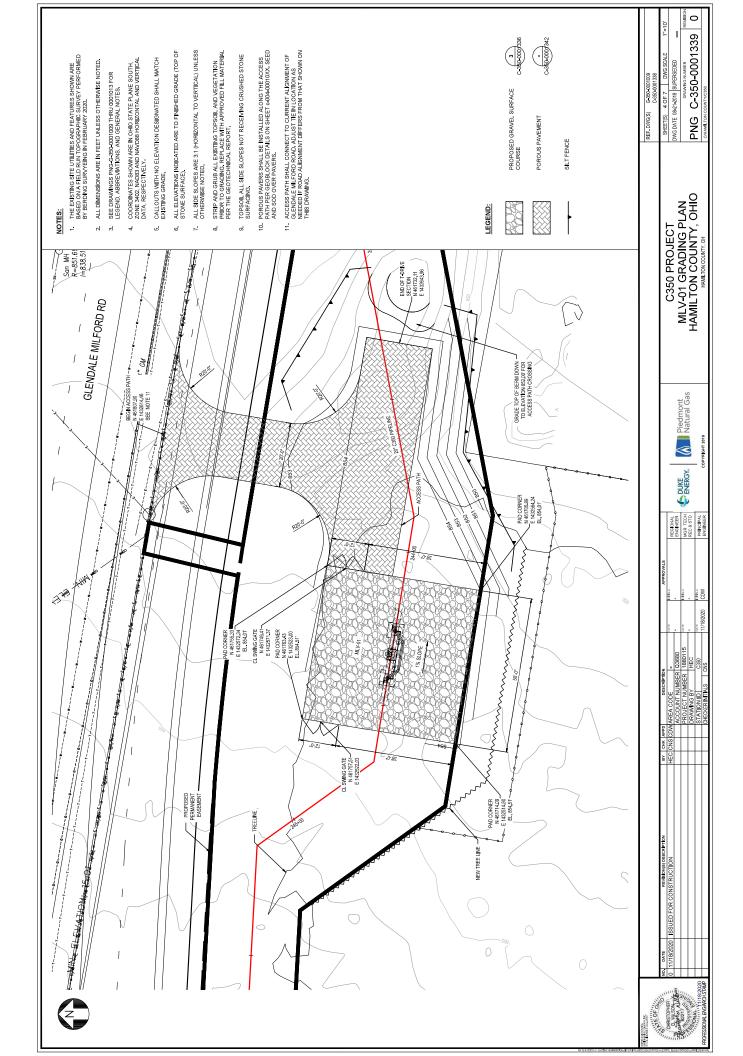
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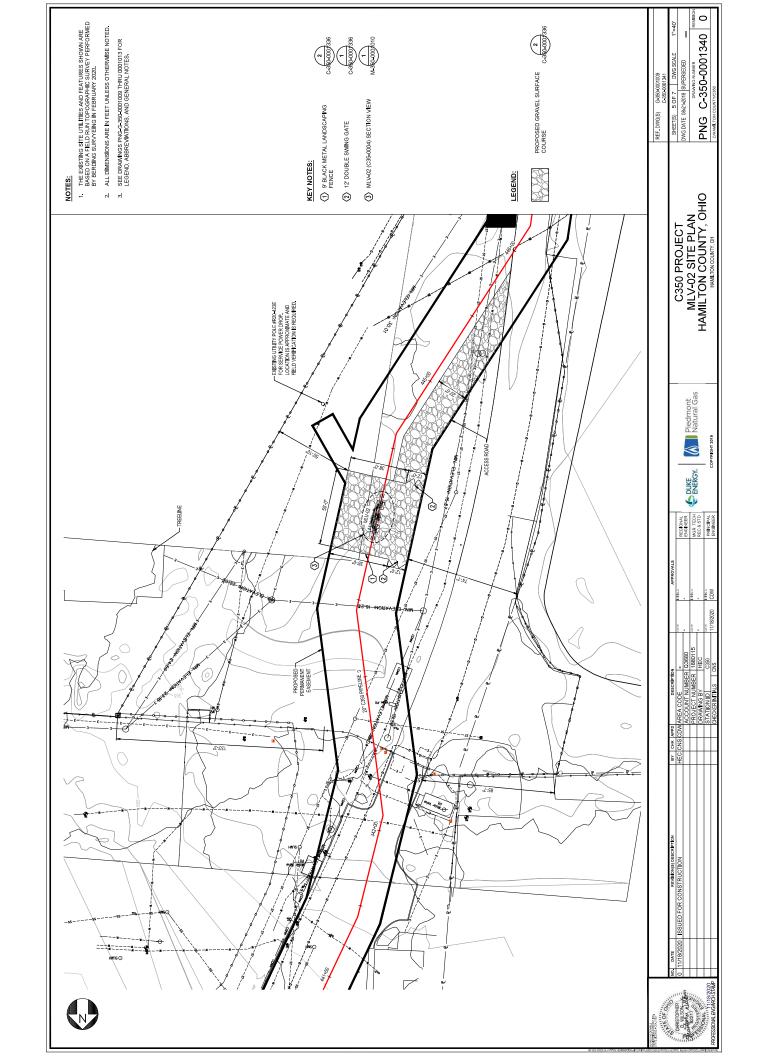


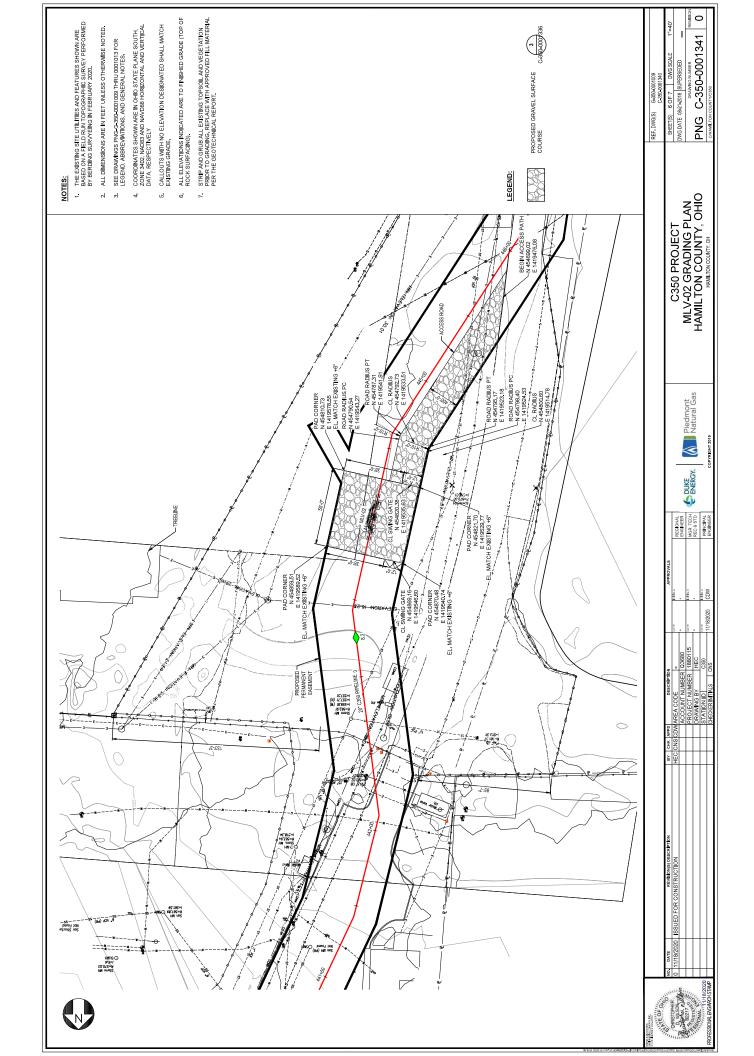
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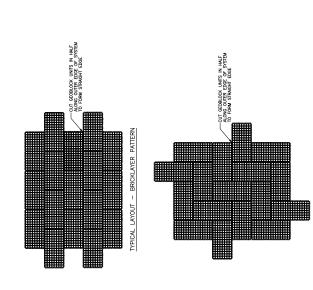




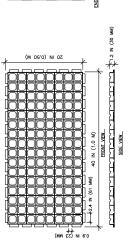


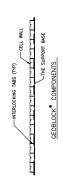






GEOBLOCK MATERIAL SPECIFICATION	ECIFICATION
MATERIAL	UP TO 100% RECYCLED POLYETHYLENE
COLOR	RANGES DARK SHADES GRAY TO BLACK
CHEMICAL RESISTANCE	SUPERIOR
CARBON BLACK FOR UV STABILIZATION, %	1.5 TO 2.0%
UNIT MIN CRUSH STRENGTH - EMPTY @ 70F (21C)	420 PSI (2,900 KPa)
JNIT MIN CRUSH STRENGTH - SAND FILLED @ 70F (21C)	5,980 PSI (41,285 KPa)
FLEXURAL MODULUS @ 73F (21C)	35,000 PSI (240,000 KPa)
NOMINAL DIMENSIONS - WIDTH X LENGTH	20 X 40 IN (0.5 X 1.0 M)
NOMINAL UNIT DEPTH	1.2 IN (30 MM)
NOMINAL AREA	5.3 SQFT (0.5 SQMTR)
CELLS PER UNIT	128
CELL SIZE	2.25 X 2.25 IN (57 X 57 MM)
TOP OPEN AREA PER UNIT	88%
BOTTOM OPEN AREA PER UNIT	56%
INTERLOCKING OFFSET SHEAR TRANSFER PINS	12 TABS PER 40 IN (PER 1 M)
NOMINAL WEIGHT PER UNIT	4.7 LBS (2.1 KG)
RUNOFF COEFFICIENT @ 2.5 IN/HR (64 MM) RAIN	0.15
INITS PER PALIFT	60





DESIGN GUIDELINES - BASE DEPTH	PTH	
LOAD DESCRIPTION	CBR 2 - 4%	CBR > 4%
Heavy Fire Truck Access & H/HS25 loading. Typical 110 psi (758 kPa) tire pressure. Single axle loadings of 40 kips (178 kN). Gross vehicle weight of 90,000 lbs) (40.1 MT).	Design 1 - Design 1 - 14" Base 10" Base	Design 1 - 10" Base
1738 KP 2 the pressure. Single and looking 7 2 kips (145 Lesign 1 kN). Goss vehicle weight of 80,000 lbs) (85.3 MT).	Design 1 - 14" Base	Design 1 - 10" Base
Light Fire Truck Access & H/HS15 loading. Typical 85 psi (586 kPa) tire pressure. Single axle loadings of 24 kips (110 kN). Gross vehicle loads of 60,000 lbs (27.2 MT).	Design 2 - Design 2 - 10" Base 6-10" Base	Design 2 - 6-10" Base
Utility & Delivery Truck Access & H/HS10 loading. Typical 60 psi (414 kPa) tire pressure. Single axle loadings of 16 kips (75 kN), Gross vehicle loads of 40,000 lbs (18.1 MT).	Design 2 - 6-10" Base	Design 2 - Design 3 - 6-10" Base 4-8" Base
Cars & Pick-up Truck Access. Typical 45 psi (310 kPa) tire pressure. Single axle loadings of 4 kips (18 kN). Grass vehicle loads of 8,000 lbs (3.6 MT).	Design 3 - 4-8" Base	Design 4 - 2-4" Base
Trail Use. Loading for pedestrian, wheelchair, equestrian, bicycle, motorcycle and ATV traffic.	Design 4 - 2-4" Base	Design 4 - 0-2" Base

TOPSOL WITH COMESS TO THE WAY OF THE PROPERTY	TO DESCRIPTION OF THE PROPERTY	Tunchuntantantantantantantantantantantantantan	DESIGN 2 ** Jahrsharquishishtahardhishishtahardhilishishishishishishishishishishishishishi	DESIGN 3 TOPSOL, WITH CRASS SIRE OF THE PROPERTY AND A LABOR SIRE OF THE CRASS TOPSOL, WITH CRASS TOPSO
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TYPICAL LAYOUT - HERRINGBONE PATTERN

- Note:

 1. In this information is based on the use of Gooblock manufactured by Rayholds Presto Prescue. And I oper exercised soon between the information for oncy hold posses product to the first production and in done exercised by Rayholds Presto Products, Inc. is a strictly prohibited and makes this information himself.

 2. Engineered base is a homogenous mixture consisting of open grade crusted appraised by mixture consisting of open graded custed appraised to wind makes the product of the product of the product of the captured appraised by the product of the captured transfer of the product and into a particle cruge from 3.5 mm to 25 mm (0.375 to 1.0. in), with a good of 3 mm to (3.6 in). The percentage or decision of the appraised protein when the first of the last of the product of the appraised product or product to produce mixture of the captured crucked to produce an increase mixture of the commendation including overlape based on brongerous mixture of the intendiction including overlape based on the appraised mixture of the intendiction including overlape based on the appropriate appropriate separation loyer and install in accordance with Manufacture recommendations including overlape based on the appropriate description of the design and construction mixture of the cabolous parties with the interlocking offset to be so that adjacent sections have the capture of the cabolous parties and construction of the design and construction methods.

 5. Provide described partierms were of a subgrade to within 32x of anononum content a determination by XTM 8098. Compact abagings or publication of the design and construction with the XTM and mixture or compact and the construction of the confidence of the construction of the confidence of the confide

NOTE: DESIGN 1 SHALL BE USED

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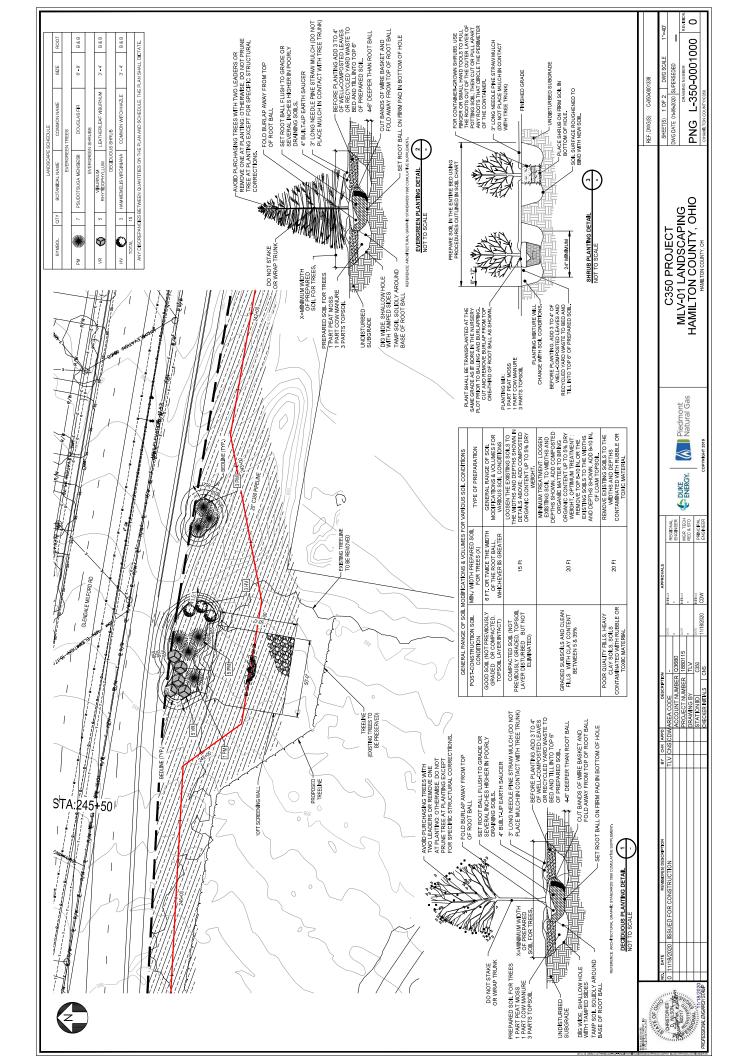
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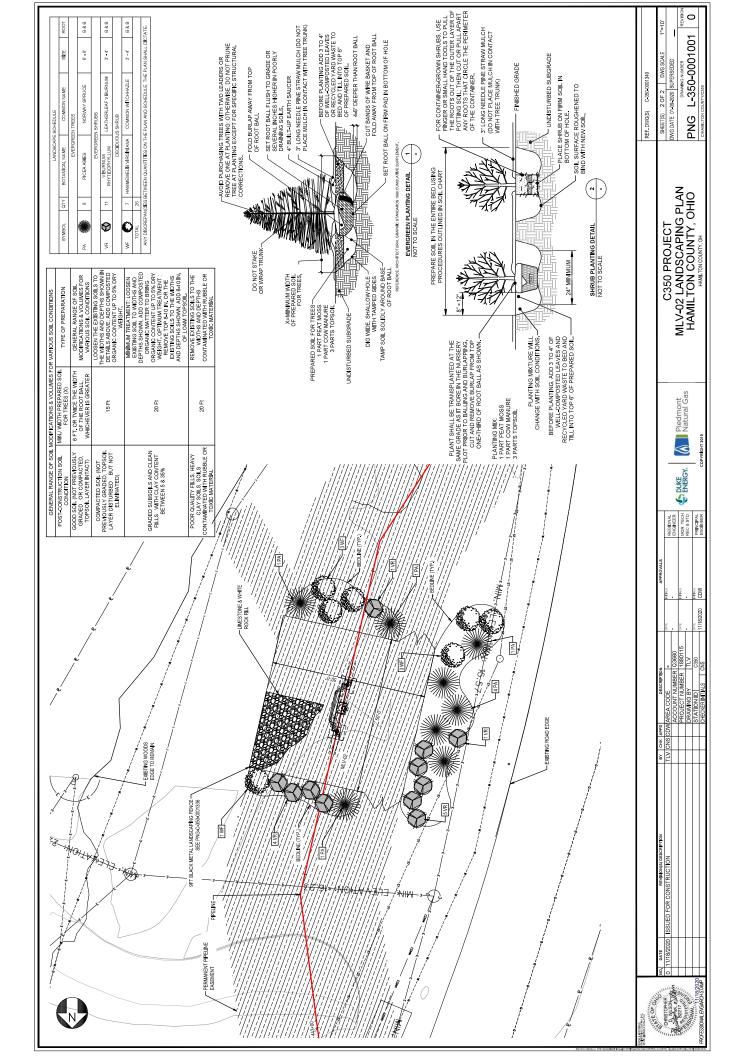
Piedmont Natural Gas

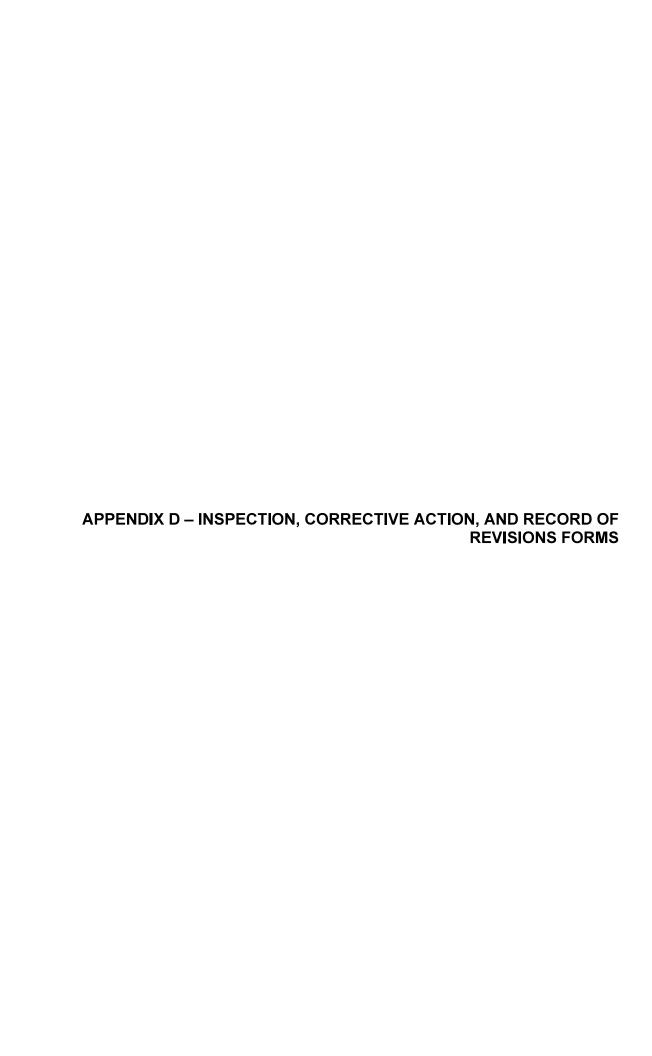
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REF. DWG(S)







Storm Water Pollution Prevention Plan

INSPECTION AND MAINTENANCE REPORT FORM

Name of Permittee: <u>Duke Ene</u>	rgy, Ohio		
Construction Site Name: <u>C350</u>) Central Corridor Pipeline Ex	tension Project	
Inspector:	D	ate:Time:	
Present Phase of Construction	:		
Site Conditions:			
Inspection Event:			
RAIN EVENT	STORM EVENT SINCE LAS FIME EVENT STARTED: EXPLANATION OF DISCH	DURATION (OF EVENT:
Measures & Controls	Location	In Conformance with Typical Standard	Effective Pollutant Control Practice
Construction Ingress/Egress		☐ YES ☐ NO	☐ YES ☐ NO
Perimeter Sediment Controls		☐ YES ☐ NO	☐ YES ☐ NO
Stream Crossing BMPs		☐ YES ☐ NO	☐ YES ☐ NO
Inlet Protection		☐ YES ☐ NO	☐ YES ☐ NO
HDD Sites		☐ YES ☐ NO	☐ YES ☐ NO
Rock Check Dams		☐ YES ☐ NO	☐ YES ☐ NO
Erosion Control Blankets		☐ YES ☐ NO	☐ YES ☐ NO
Concrete Washout		☐ YES ☐ NO	☐ YES ☐ NO
Vegetated Swale		☐ YES ☐ NO	☐ YES ☐ NO
Temporary Stabilization		☐ YES ☐ NO	☐ YES ☐ NO
Permanent Stabilization		☐ YES ☐ NO	☐ YES ☐ NO
Slope Controls		☐ YES ☐ NO	☐ YES ☐ NO
Run-on Controls			

NON-CONFORMANCE/INEFFECTIVE POLLUTANT CONTROL PRACTICES NOTED DURING INSPECTION: (Explain each "NO" circled above)	in
RECOMMENDED REMEDIAL ACTIONS AND SCHEDULE OF THOSE EVENTS:	
LIST OF AREAS WHERE CONSTRUCTION OPERATIONS HAVE PERMANENTLY OR TEMPORARILY CEASED:	
OBSERVATIONS AT STORM WATER DISCHARGE LOCATIONS:	
ADDITIONAL COMMENTS	
ADDITIONAL COMMENTS:	
Signature: Printed Name:	
Signature: Printed Name: Environmental Inspector	

Storm Water Pollution Prevention Plan

RECORD OF REVISIONS

Name of Permittee: <u>Duke Energy</u> , <u>Ohio</u>	
Construction Site Name: C350 Central Corridor Pipeline Extension Project	
Inspector:	Date:

Date	Sections Modified	Description of Modification	Approval Signature/Title

Storm Water Pollution Prevention Plan

CORRECTIVE ACTION LOG

Name of Permittee: <u>Duke Energy</u> , Ohio		
Construction Site Name: C350 Central Corridor Pipeline Extension	n Project	
Inspector:	Date:	

Inspection Date	Inspector(s)	Description of BMP Deficiency	Corrective Action Needed (planned date/responsible person)	Date Action Taken/Responsible Person

Storm Water Pollution Prevention Plan

GRADING AND STABILIZATION ACTIVITIES LOG

Name of Permittee: Duke Energy, Ohio	
Construction Site Name: C350 Central Corridor Pipeline Extension Project	

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location



HORIZONTAL DIRECTION DRILLING (HDD) CONTINGENCY PLAN PIEDMONT NATURAL GAS

HDD is a common method used to install pipeline through heavily developed areas, roadways, waterways and environmentally sensitive areas to minimize the surface disturbance that traditional open-cut trenching methods typically require. The use of HDD construction limits disturbances to the drilling site and temporary accesses if required.

Directional bore operations have the potential to release drilling fluids into the surface environment through fractured bedrock. The drilling mud typically will flow into the surrounding rock and sand and travel toward the ground surface. The drilling fluid, a bentonite slurry, is used as a lubricant during the drilling of the bore hole, enabling the rock and soil cuttings from the drilling process to be carried back up to a containment bay at the ground surface at the drilling site. It also works as a seal to enhance the integrity of the bore hole. Bentonite is a non-toxic, naturally occurring clay commonly used for agricultural purposes such as decreasing water loss in ponds and soils. Note that there will be no hydraulic fracturing associated with this method of drilling on the site.

While drilling, fluid seepage is most likely to occur near the bore entry and exit points where the drill head is shallow, seepage can occur in any location along a directional bore. This Horizontal Direction Drilling Contingency Plan establishes operational procedures and responsibilities for the prevention, containment, and cleanup of fluid loss incidents associated with this project. The project specifications also reference the HDD portion of the project.

All personnel and Sub-Contractors responsible for the work must adhere to this plan during the directional drilling process.

The specific objectives of this plan are to:

- 1. Minimize the potential for a drilling fluid release associated with directional drilling activities;
- 2. Provide for the timely detection of fluid releases;
- 3. Protect the environmentally sensitive areas and associated riparian vegetation;
- 4. Ensure an organized, timely, and efficient response in the event of a release of drilling bentonite; and
- 5. Ensure that all appropriate notifications are made immediately to the client and regulatory personnel.

Pre-Construction Measures

Before any HDD occurs, a safety meeting will take place. This contingency plan will be discussed and any questions will be answered. The Site Supervisor shall ensure that a copy of this plan is available (onsite) and accessible to all construction personnel. The Site Supervisor shall ensure that all workers are properly trained and familiar with the necessary procedures for response to a drilling fluid release, prior to commencement of drilling operations. Other best-management measures are listed below.

- 1. Prior to construction, the work areas will be flagged and the limits defined. Erosion and sediment controls will be placed near the drilling rig location and around the drilling fluid containment bays as a preventative measure against drilling fluid leaving the site.
- 2. A spill kit shall be kept onsite and used if a drilling fluid loss occurs. Other containment materials, such as straw bales, shall also be kept on-site prior to and during all HDD drilling operations.

Fluid Loss Response and Measures

The response of the field crew to a drilling fluid loss shall be immediate and in accordance with procedures identified in this Plan. All appropriate emergency actions that do not pose additional threats to sensitive resources will be taken, as follows:

- 1. The pressure and volume of drilling fluid will be closely observed by the drilling contractor during HDD activities to watch for indications of fluid loss.
- 2. Drilling operations will be halted by the drill rig operators immediately upon detection of a drop in drilling pressure or any other indicator of fluid loss. The loss of drilling fluid to the surface is greatest at shallow locations, typically near the entry and exit points of the HDD.
- 3. Containment bays will be in place at both the drill entry and exit points to prevent drilling fluid from leaving the site at the entry and exit points, in addition to silt fence placed along the perimeter of the drilling area.
- 4. The HDD bores have been designed to provide sufficient depth below water crossings to reduce the risk of drilling fluid reaching the ground surface.
- 5. The clean-up of all spills and fluid loss shall begin immediately.
- 6. The Site Supervisor will notify Piedmont Natural Gas and the project inspector immediately at any time during drilling operations that the drilling contractor observed a loss of drilling fluid.
- 7. In the event of a loss of drilling fluid, the Site Supervisor shall be notified immediately and will conduct an evaluation of the situation and direct recommended mitigation actions, based on the following guidelines of the severity of the fluid loss.
 - a. If the loss of drilling fluid is minor, easily contained, has not reached the surface and is not threatening sensitive resources, drilling operations may resume after use of a leak stopping compound or redirection of the bore.
 - b. If drilling fluid reaches the surface, the area will be isolated with silt fence or similar measures to contain drilling fluid.
 - i. A containment or relief bay may be installed, if possible, to keep drilling fluid from reaching environmentally sensitive areas and removal will begin by vac-truck or hand tools.
 - ii. In areas that cannot be reached by a vac-truck for drilling fluid removal, a tiered system of contained areas will relay drilling fluid to a location accessible by a vac-truck and removed.

- iii. If it is not possible to relay drilling fluid to a suitable location for removal by a vac-truck, drilling contractor workers will use hand tools and vacuums to remove the drilling fluid from contained areas.
- iv. Any material contaminated with Bentonite shall be removed by hand to a depth of 2-feet, contained and properly disposed of, as required by law. The drilling contractor shall be responsible for ensuring that the bentonite is either properly disposed of at an approved disposal facility or properly recycled in an approved manner. Contractor must provide Piedmont with documented proof of disposal.
- c. If drilling fluid reaches the surface in flowing waters, the following actions should be initiated.
 - i. A coffer dam will be installed downstream.
 - ii. Drilling fluid removal will begin by hand tools immediately. If the fluid loss is widespread, the Site Supervisor may discuss the use of the vac-truck with the regulatory agencies.
 - iii. Any material contaminated with Bentonite shall be removed by hand to a depth of 2-feet, contained and properly disposed of, as required by law. The drilling contractor shall be responsible for ensuring that the bentonite is either properly disposed of at an approved disposal facility or properly recycled in an approved manner. Contractor must provide Piedmont with documented proof of disposal.
 - iv. Piedmont's Environmental Department and environmental regulatory agencies will be notified.

During drilling activities, the pressure of the drilling fluid in the bore hole is greatest at the end of the drill. If there is a drilling fluid loss, the danger of it occurring again at the same location will be significantly reduced as the drilling continues and the bore hole is advanced beyond the location of the original fluid loss. The pressure at the original loss location will be reduced and drilling fluids will be more likely to resume their path through the bore hole and out to the containment bay at the drill site.

Response Close-out Procedures

When the release has been contained and cleaned up, response closeout activities will be conducted at the direction of the Site Supervisor and shall include the following:

- The recovered drilling fluid will either be recycled or hauled to an approved facility for disposal. Contractor must provide Piedmont with documented proof of disposal. No recovered drilling fluids will be discharged into streams, storm drains or any other water source:
- 2. All spilled drilling fluid excavation and clean-up sites will be returned to pre-project contours using clean fill, as necessary; and
- 3. All containment measures (fiber rolls, straw bale, etc.) will be removed, unless otherwise specified by the Site Supervisor/Foremen.

The Site Supervisor shall record the drilling fluid loss in their daily log. The log will include the following: Details on the release event, including an estimate of the amount of bentonite released, the location and time of release, the size of the area impacted, and the success of the clean-up action. The log report shall also include the: name and telephone number of person reporting; date; how the release occurred; type of activity that was occurring around the area of the drilling fluid loss; description of any sensitive areas and their location in relation to the drilling fluid loss; description of the methods used to clean up or secure the site; and a listing of the current permits obtained for the project.

In the event the drilling fluid loss results in drilling fluid entering the creek, the Site Supervisor will notify Piedmont's Environmental Department and environmental regulatory agencies will be notified. All notifications will occur within 24 hours of the discovery of the release and proper documentation will be prepared within a timely manner.

Construction Re-start

For small releases, drilling may continue, if 100 percent containment is achieved through the use of a leak stopping compound or redirection of the bore and the clean-up crew remains at the drilling fluid loss location throughout the remainder of the drilling of that bore.

For all other releases, construction activities will not restart without prior approval from Piedmont Natural Gas and the project engineer's inspector.

Bore Abandonment

Abandonment of the bore will only be required when all efforts to control the drilling fluid loss within the existing directional bore have failed. The borehole will be completely abandoned and a new location determined. Any borehole abandonment locations will be documented and shown on any as-built documents.

The following steps will be implemented during abandonment of the borehole:

- 1. Determine the new location for the HDD crossing.
- 2. Insert casing, as necessary to remove the pilot string.
- 3. Pump a thick grout plug into the borehole to securely seal the abandoned borehole.



CREATE AMAZING.

Burns & McDonnell World Headquarters 9400 Ward Parkway Kansas City, MO 64114 •• 816-333-9400 •• 816-333-3690 •• www.burnsmcd.com This foregoing document was electronically filed with the Public Utilities

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Summary: Correspondence Conditions 8 37 NPDES Permit (File 3 of 3) electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and D'Ascenzo, Rocco O. Mr. and Vaysman, Larisa