



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

Maryland Department of the Environment, Water and Science Administration.

November 3, 2017

Notice of Public Informational Hearing for a State Nontidal Wetlands and Waterways Permit and the Opportunity to Provide Comments.

The Water and Science Administration (Administration) is reviewing the following application for a State Nontidal Wetlands and Waterways Permit. The application and related information are on file at the Wetlands and Waterways Program, 1800 Washington Blvd., Baltimore, Maryland 21230. Arrangements may be made for inspection and copying of file materials. Opportunity is afforded to interested parties to provide written comments on the listed application(s), or to be placed on the interested persons list for this application. If requesting to be placed on the interested persons list, please clearly state this request in written form.

A public informational hearing will be held on December 19, 2017 at the Hancock Middle/High School, 289 West Main Street, Hancock, MD 21750. The project plans will be on display beginning at 6:00 p.m. The hearing will start promptly at 7:00 p.m. and will end by 9:30 p.m. The public informational hearing allows the applicant and interested persons the opportunity to present facts and make statements relative to the granting or denying of a Nontidal Wetlands and Waterways Permit. Opportunity is afforded to interested parties to provide written comments on the listed application through the end-of-business on January 16, 2018. If extenuating circumstances exist that preclude an interested person or persons from providing verbal testimony on this date, the Administration will consider taking verbal testimony at our offices through the end of the comment period. Sign language interpreters and other appropriate accommodations for individuals with disabilities will be provided upon request. On all correspondence, please refer to the case number which identifies the application. Correspondence should be addressed to the Water and Science Administration, Wetlands and Waterways Program, 1800 Washington Blvd., Baltimore, Maryland 21230.

A Water Quality Certification is required from the Department of the Environment for this project. This certification is required under Section 401 of the Clean Water Act.

Any further notices concerning actions on the following application will be provided by mail to those persons on the interested persons list.

Washington County

Staff Assigned: Paul Busam/Matt Radcliffe

Case Number: **201760592 / 17-NT-3089:**

COLUMBIA GAS TRANSMISSION, LLC, 5151 San Felipe, Suite 2400, Houston, Texas, has proposed the construction of 3.06 miles of new 8-inch diameter natural gas transmission pipeline. The purpose of the pipeline is to increase supply options and system reliability by providing firm transportation service with receipts from Texas Eastern Transmission's Marietta interconnect in Lancaster County, PA to a proposed point of delivery meter station in Morgan County, WV. The proposed project will permanently impact 127 linear feet (923 square feet) and temporarily impact 95 linear feet (1,130 square feet) of perennial and intermittent streams. The project also proposes to temporarily impact 14,885 square feet of regulated floodplain, 2,642 square feet of emergent nontidal wetland, and 8,829 square feet of the 25-foot nontidal wetland buffer. The proposed project alignment extends from Fulton County, Pennsylvania in the north to Morgan County, West Virginia in the south and is approximately 1.4 miles west of Hancock in Washington County.

If you have any questions concerning the hearing, the project, or our review process, please contact Paul Busam at paul.busam@maryland.gov or (410) 537-3213. Any further notices concerning actions on the application will be provided by mail to those persons on the interested persons list. Please refer to Subsection 5-907 of the Annotated Code of Maryland or the Code of Maryland Regulations 26.23.02 for information regarding the application process.

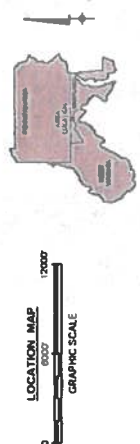
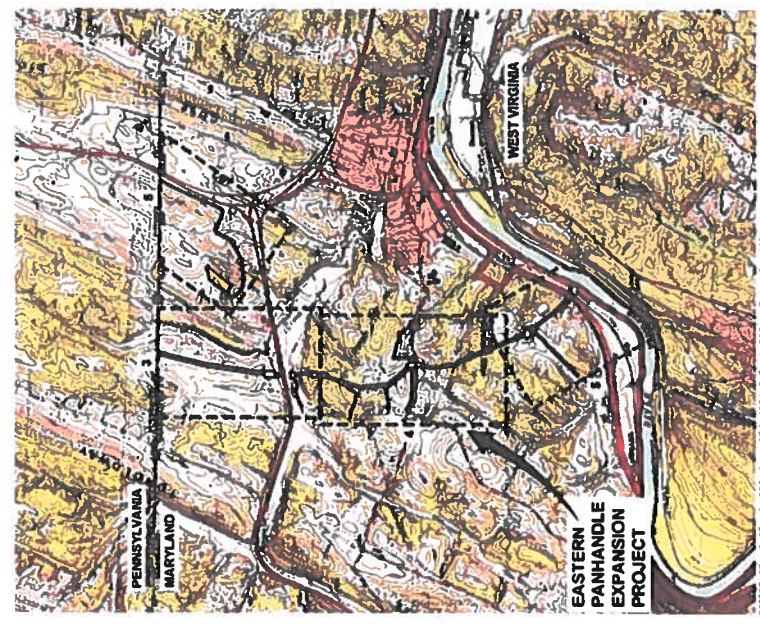
EROSION AND SEDIMENT CONTROL PLAN EASTERN PANHANDLE EXPANSION PROJECT

20176059Z
17-NT-3089

WASHINGTON COUNTY,
MARYLAND

MARCH 2017
REVISED SEPTEMBER 2017

COLUMBIA GAS TRANSMISSION, LLC.,
A TRANSCANADA COMPANY
HOUSTON, TEXAS



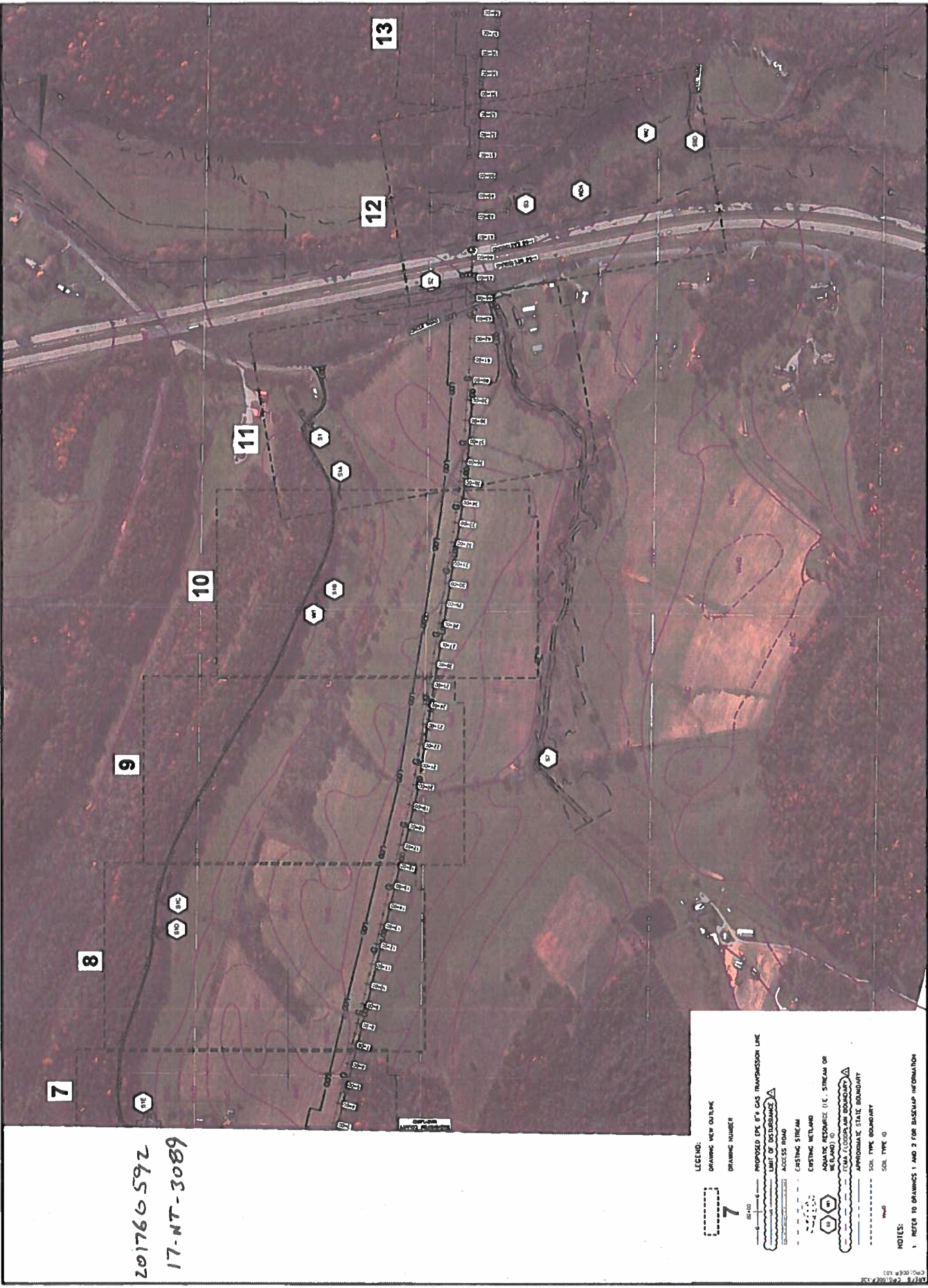
KEY CONTACTS:
OWNER:
COLUMBIA GAS TRANSMISSION, LLC., A TRANSCANADA COMPANY
5000 GULF SHORES BLVD., SUITE 2400
HOUSTON, TX 77056
TELEPHONE: 713.386.3302
CONTACT: CLIFFORD ABBOTT

ENGINEERING FIRM:
ARCADIS U.S., INC.
6041 WALLACE ROAD EXTENSION, SUITE 300
WEXFORD, PA 15090
TELEPHONE: 724.934.9562
CONTACT: ALLEN LONG, P.E.
MARYLAND ONE-CALL
TELEPHONE: 811 OR 1.800.257.7777

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- 7 SITE PLAN (STA 6+50 TO 16+00)
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- 34 MISCELLANEOUS DETAILS
- 35 MISCELLANEOUS DETAILS
- 36 MISCELLANEOUS DETAILS
- 37 MISCELLANEOUS DETAILS





20176659Z
17-WT-3089

LEGEND:

7 DRAWING VIEW OUTLINE

8 PROPOSED 10' GAS TRANSMISSION LINE

9 LIMIT OF DISTURBANCE

10 ACCESS ROAD

11 EXISTING STREAM

12 EXISTING WETLAND

13 AQUATIC RESOURCE (I.E. STREAM OR WETLAND)

14 DUAL LOGS/AM BOUNDARY

15 APPROXIMATE STATE BOUNDARY

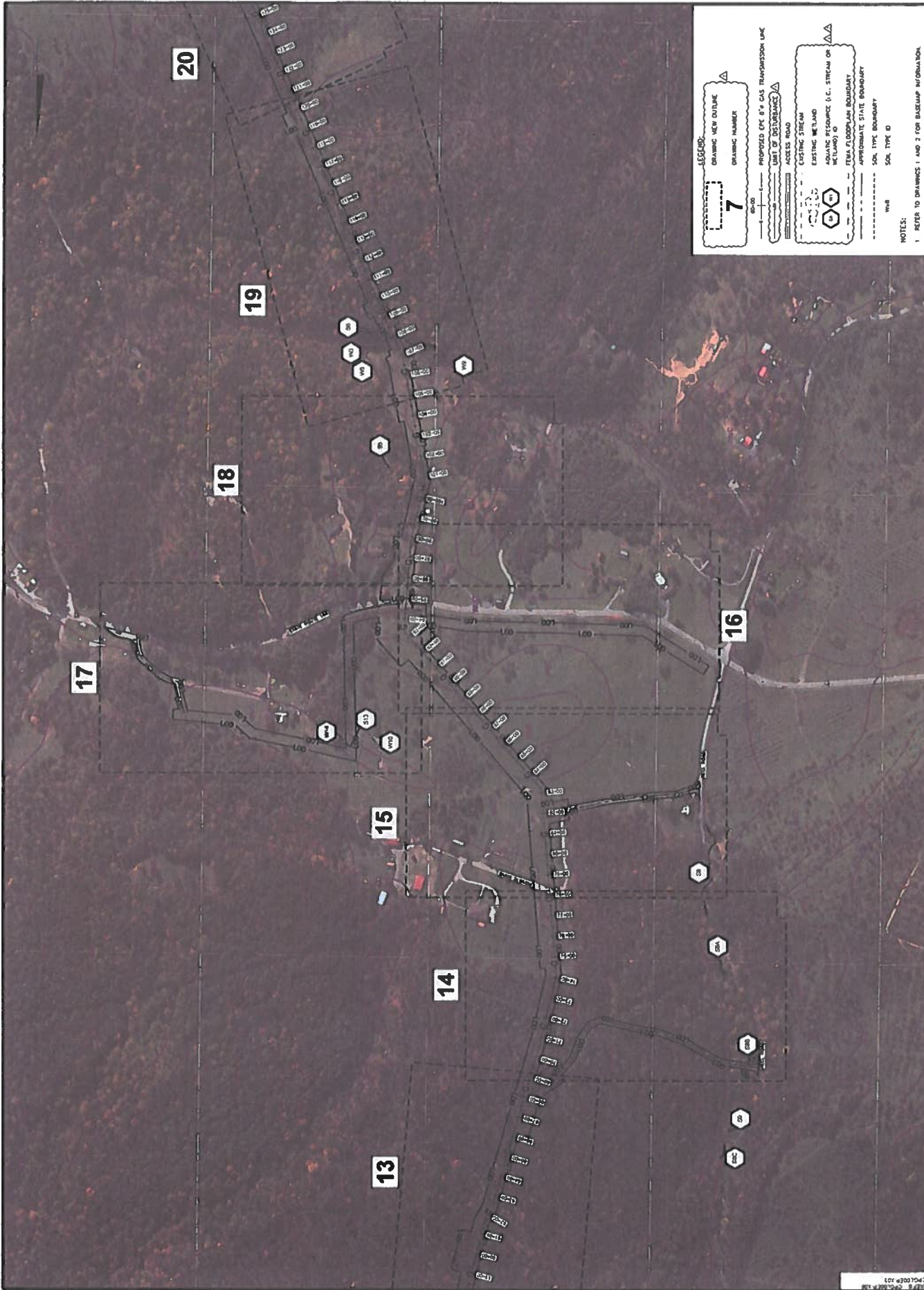
16 SOIL TYPE BOUNDARY

17 SOIL TYPE 'D'

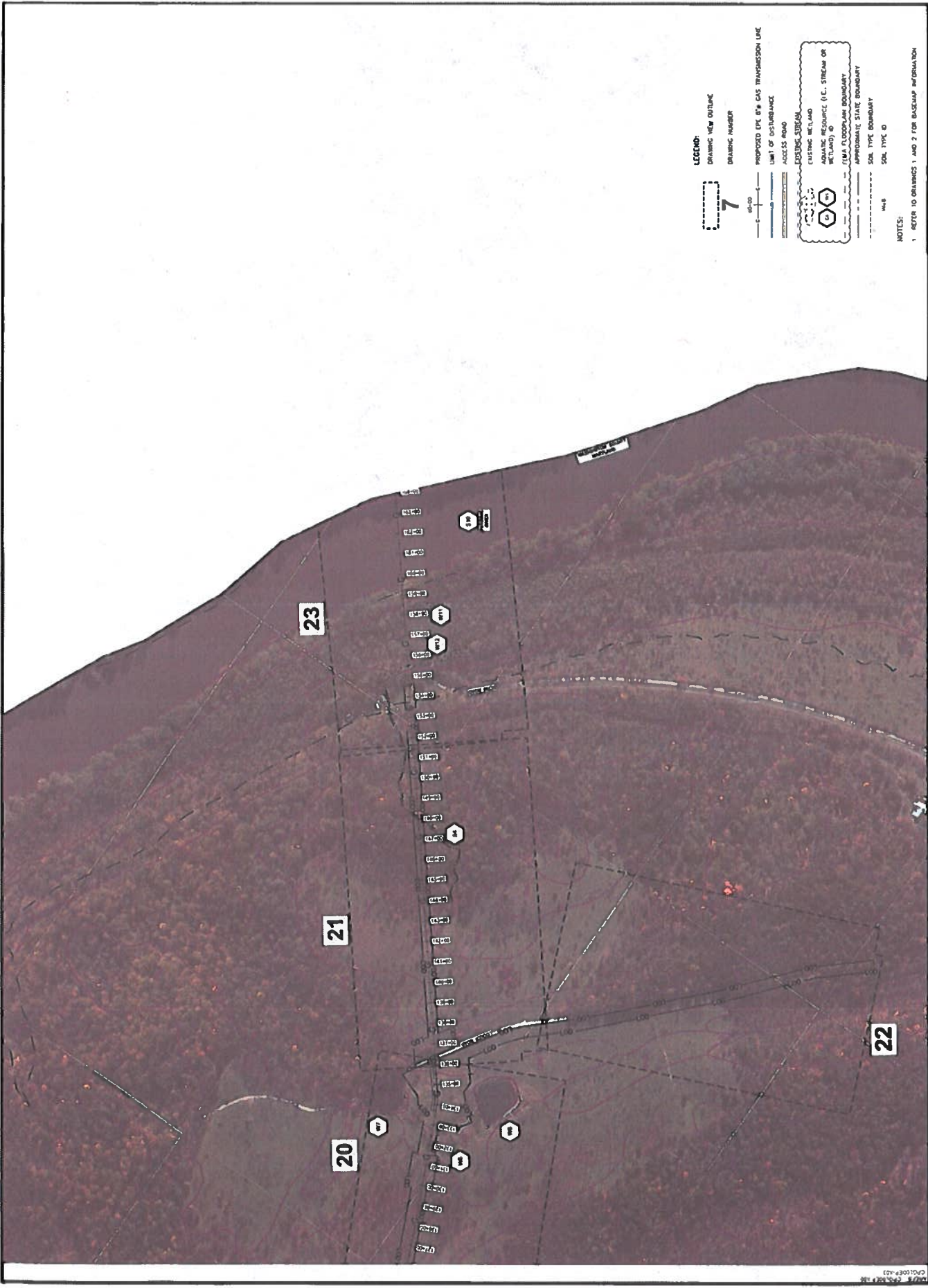
NOTES:

1. REFER TO DRAWINGS 1 AND 2 FOR BASELAP INFORMATION

<p>ARCADIS PROJECT No. EPC00007 0001 0000a DATE: 08/01/2017</p>		<p>3</p>																																																								
<p>ARCADIS 4041 Wilshire Road, Suite 200 Houston, TX 77062 TEL: 281.416.1000</p>																																																										
<p>COLUMBIA GAS TRANSMISSION, L.L.C. - TRANSCANADA COMPANY - HOUSTON, TEXAS EASTERN PANHANDLE EXPANSION PROJECT OVERALL SITE PLAN - STA. 0+00 TO 59+00</p>																																																										
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ARCADIS Design & Construction <small>Technologies and Solutions</small>				ARCADIS U.S. INC.			
COLUMBIA ENERGY SERVICES, L.P. 157520045 EASTERN PANHANDLE EXPANSION PROJECT - SECTION, TEXAS							
OVERALL SITE PLAN - STA. 59+00 TO 126+00							
20176052Z / 17-AT-3089							
NOTES: 1 REFER TO DRAWINGS 1 AND 2 FOR BACKLAP INFORMATION.							
LEGEND:		7 DRAWING NUMBER		PROPOSED 66" GAS TRANSMISSION LINE (LIMIT OF DISTURBANCE)		EXISTING STREAM	
DRAWING NET OUTLINE		EXISTING WETLAND		ACCESS ROAD		AQUATIC RESOURCE (I.E. STREAM OR WETLAND) ID	
EXISTING WETLAND		AQUATIC RESOURCE (I.E. STREAM OR WETLAND) ID		LEGAL FLOODPLAIN BOUNDARY		APPROXIMATE STATE BOUNDARY	
LEGAL FLOODPLAIN BOUNDARY		APPROXIMATE STATE BOUNDARY		SOA TYPE BOUNDARY		SOA TYPE ID	



LEGEND:
 DASHED LINE: DRAWING VIEW OUTLINE
 NUMBER 7: DRAWING NUMBER

PROPOSED 60" Ø 8" GAS TRANSMISSION LINE
 LIMIT OF DISTURBANCE
 ACCESS ROAD
 EXISTING WETLAND
 ADJACENT RESOURCE (I.E., STREAM OR WETLAND) ID
 APPROXIMATE STATE BOUNDARY
 SOIL TYPE BOUNDARY

NOTES:
 1. REFER TO DRAWINGS 1 AND 2 FOR BASEMAP REFINEMENT

		OVERALL SITE PLAN - EASTERN PANHANDLE EXPANSION PROJECT STA. 126+00 TO 177+74 201760593 / 17-NT-308		5
<p>ALLEN LONG Project Manager (409) 343-3333</p>		<p>DATE: 11/17/2017 DRAWN BY: JLD CHECKED BY: JLD PROJECT NO: 201760593</p>		<p>ARCADIS U.S. INC. 14000 Preston Rd. Suite 1000 Dallas, TX 75240 (972) 343-3333 www.arcadis-us.com</p>



LEGEND:

7 DRAWING NUMBER

PROPOSED 8" GAS TRANSMISSION LINE

LIMIT OF DISTURBANCE

ACCESS ROAD

EXISTING STREAM

EXISTING WETLAND

AQUATIC RESOURCE (I.E., STREAM OR WETLAND)

FEMA FLOODPLAIN BOUNDARY

APPROXIMATE STATE BOUNDARY

50% TYPE BOUNDARY

50% TYPE D

NOTES:

1. REFER TO DRAWINGS 1 AND 2 FOR BACKGROUND INFORMATION

ALLEN LONG			
NO.	DATE	DESCRIPTION	BY
1	10/15/17	ISSUED FOR PERMITTING	AL
2	11/15/17	REVISED FOR COMMENTS	AL
3	12/15/17	REVISED FOR COMMENTS	AL
4	01/15/18	REVISED FOR COMMENTS	AL
5	02/15/18	REVISED FOR COMMENTS	AL
6	03/15/18	REVISED FOR COMMENTS	AL
7	04/15/18	REVISED FOR COMMENTS	AL
8	05/15/18	REVISED FOR COMMENTS	AL
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98	11/15/25	REVISED FOR COMMENTS	AL
99	12/15/25	REVISED FOR COMMENTS	AL
100	01/15/26	REVISED FOR COMMENTS	AL

ARCADIS | Public & Community | Infrastructure | Environmental

ARCADIS U.S. INC.

OVERALL SITE PLAN - CONTRACTOR STAGING AREA AND TEMPORARY ACCESS ROAD TAR-1

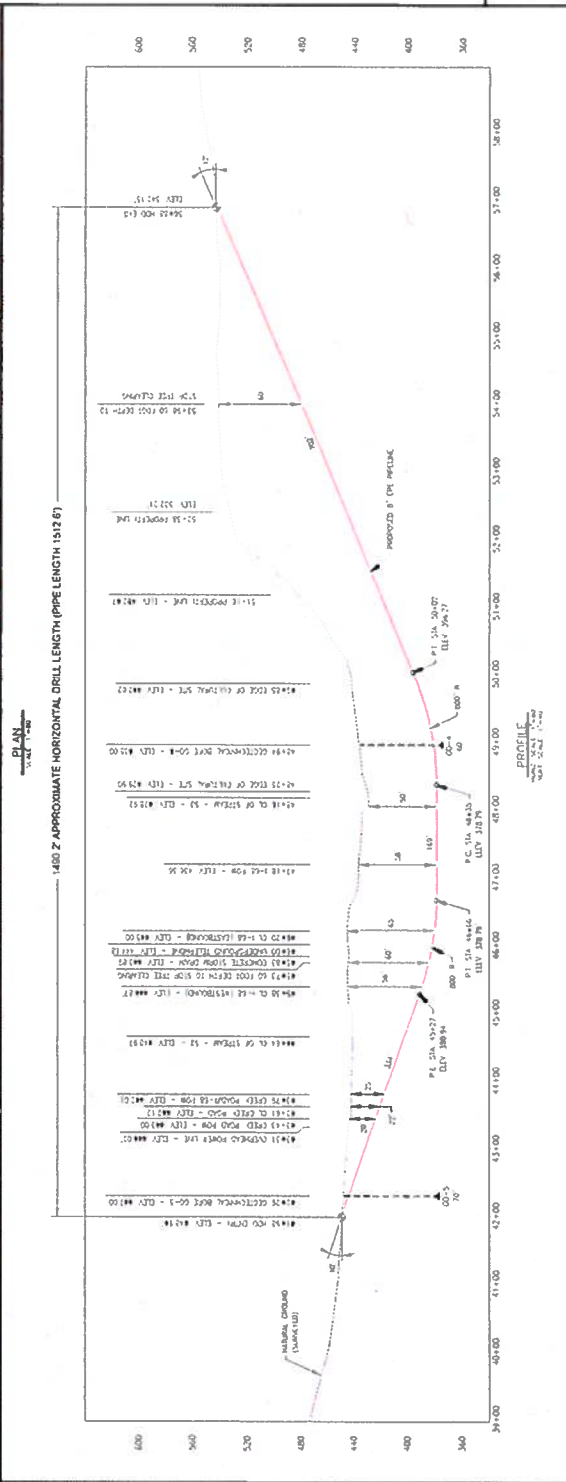
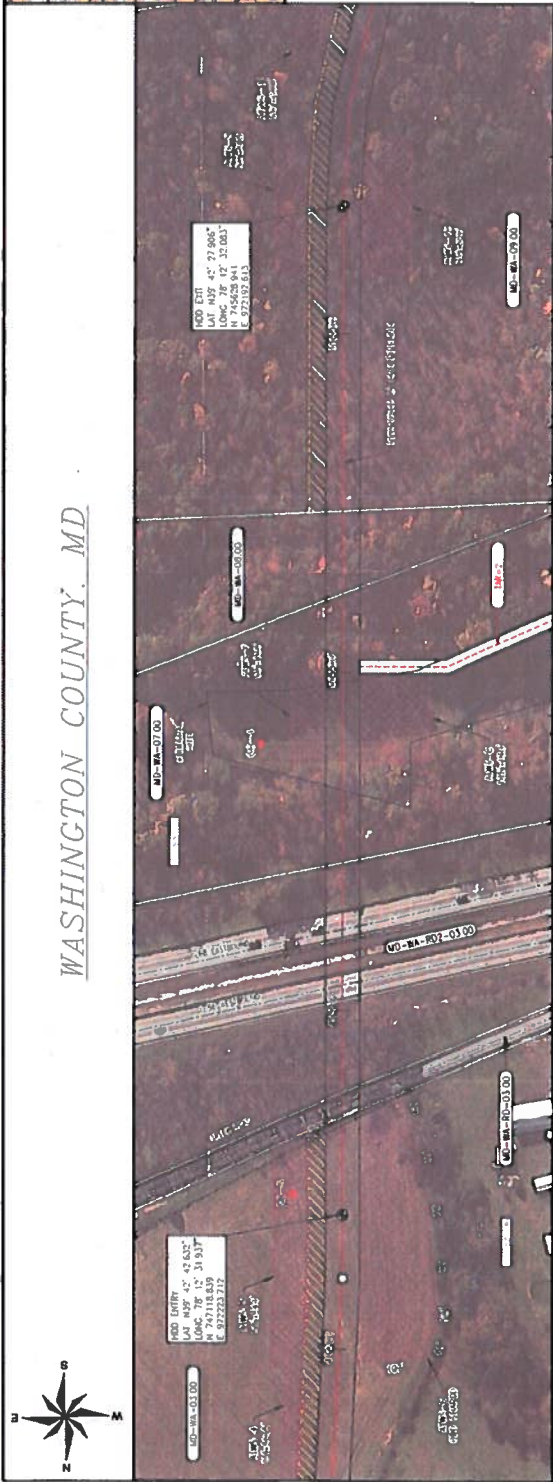
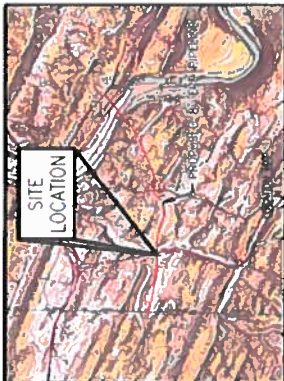
201760592 / 17-NT-3089

STATE OF TEXAS
COUNTY OF TARRANT
DATE: 10/15/2023
PROJECT: 17-NT-3089

6

20176059Z 17-NT-3089

WASHINGTON COUNTY, MD



ISSUED FOR CONSTRUCTION

PROJECT: EASTERN PARALLEL EXPANSION
 PRODUCT: DIRECTIONAL DRILL - INTERSTATE 68
 TITLE: HORIZONTAL DIRECTIONAL DRILL - INTERSTATE 68

DATE: 10/15/17
 DRAWN: JMD
 CHECKED: JMD
 SCALE: AS SHOWN

NO.	REVISIONS	DATE	BY	DATE	BY	REFERENCE
1	ISSUED FOR CONSTRUCTION	10/15/17	JMD			

1 OF 1

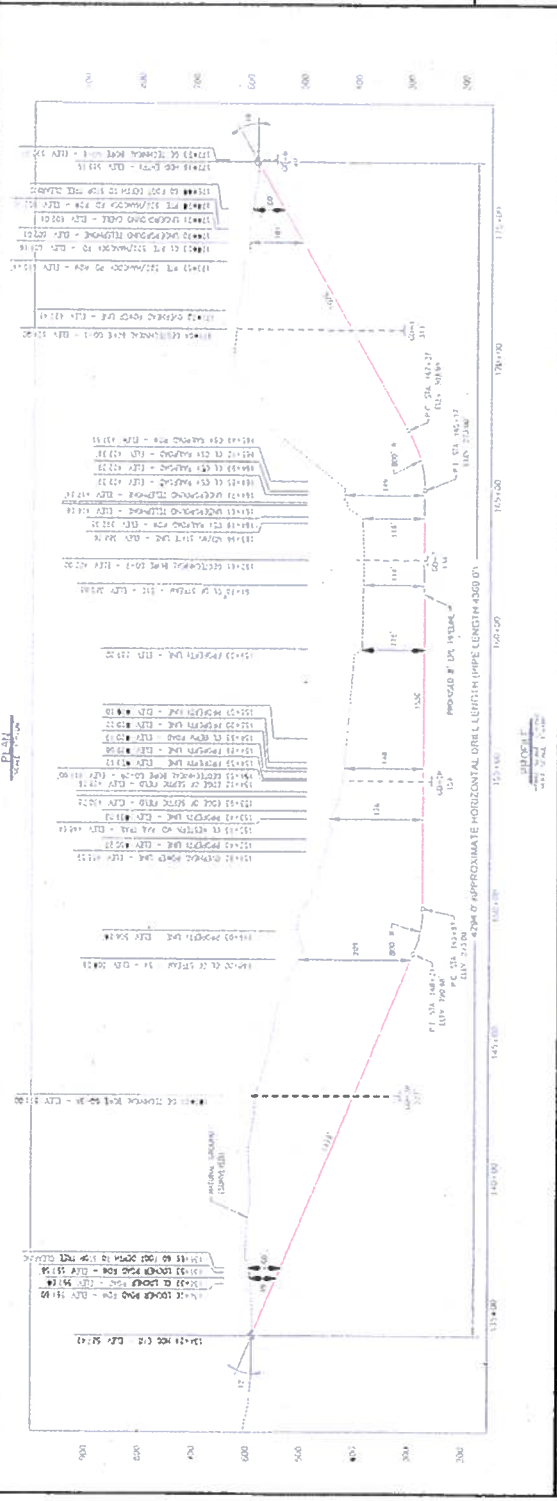
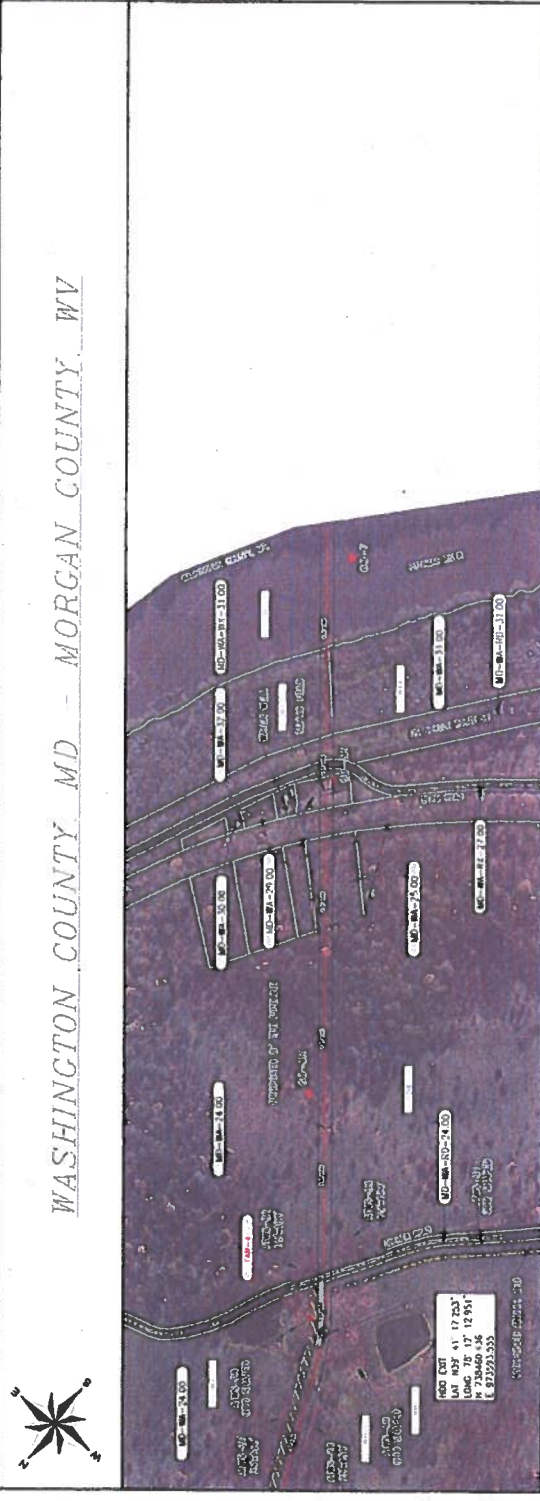
20176059Z 17-NT-3089

WASHINGTON COUNTY MD - MORGAN COUNTY WV



At construction and during the use of the system, the following conditions shall be maintained:

1. The system shall be installed in accordance with the design and specifications.
2. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
3. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
4. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
5. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
6. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
7. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
8. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
9. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.
10. The system shall be installed in a trench that is at least 18 inches deep and 18 inches wide.



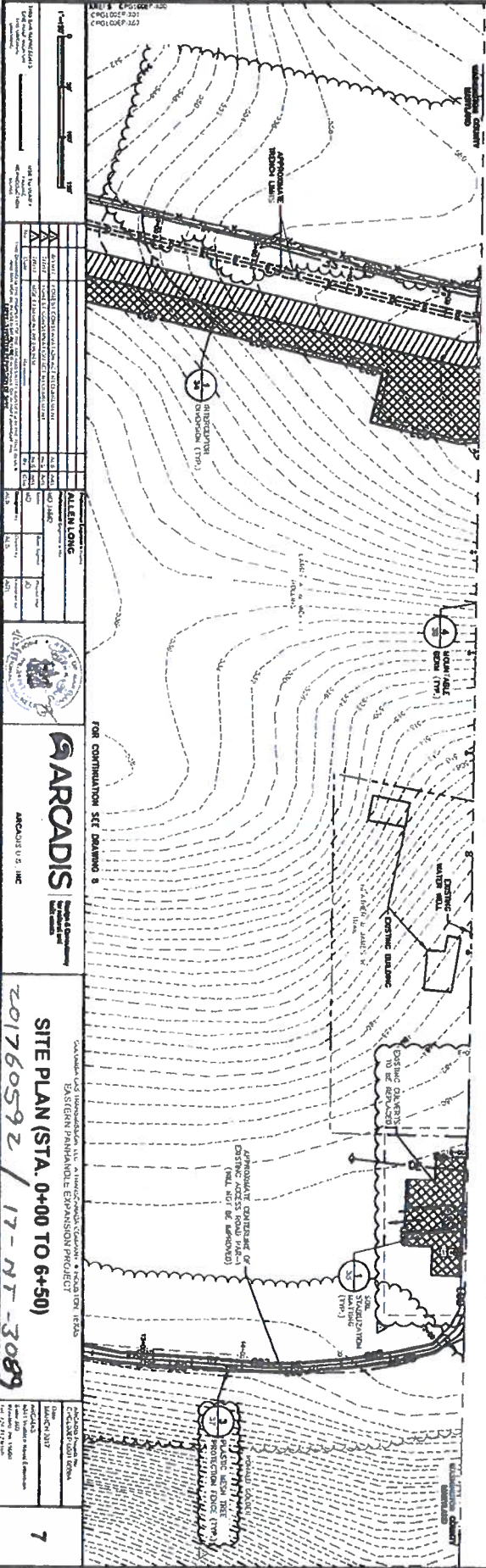
ISSUED FOR CONSTRUCTION

PL 110176
 EASTERN PARKWAY EXPANSION
 HORIZONTAL DIRECTIONAL DRILL POTOMAC RIVER

NO.	DATE	BY	CHK	REVISIONS
1				
2				
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NO.	DATE	BY	CHK	REVISIONS
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NO.	DATE	BY	CHK	REVISIONS
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Scale	1" = 40'
North Arrow	True North
Grid	UTM
Projection	North
Zone	18N
Datum	NAD 83
Units	Feet
Color	Black
Plot Style	Standard
Printer	HP DesignJet 5000
Plot Date	10/20/2017
Plot Time	10:45 AM
Plot User	S. J. ALLEN
Plot Path	\\server\projects\17-N1-3089\17-N1-3089.dwg
Plot Size	11x17
Plot Scale	1:1
Plot Orientation	Portrait
Plot Color	Color
Plot Resolution	300
Plot Font	Arial
Plot Font Size	10
Plot Font Weight	Normal
Plot Font Color	Black
Plot Font Style	Normal
Plot Font Underline	Off
Plot Font Strikethrough	Off
Plot Font Color	Black
Plot Font Size	10
Plot Font Weight	Normal
Plot Font Color	Black
Plot Font Style	Normal
Plot Font Underline	Off
Plot Font Strikethrough	Off

NO. 1	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 2	EXISTING WATER TOWER	1/8" = 1'
NO. 3	EXISTING BUILDING	1/8" = 1'
NO. 4	EXISTING DRAINAGE	1/8" = 1'
NO. 5	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 6	SOIL EXCAVATION AREA	1/8" = 1'

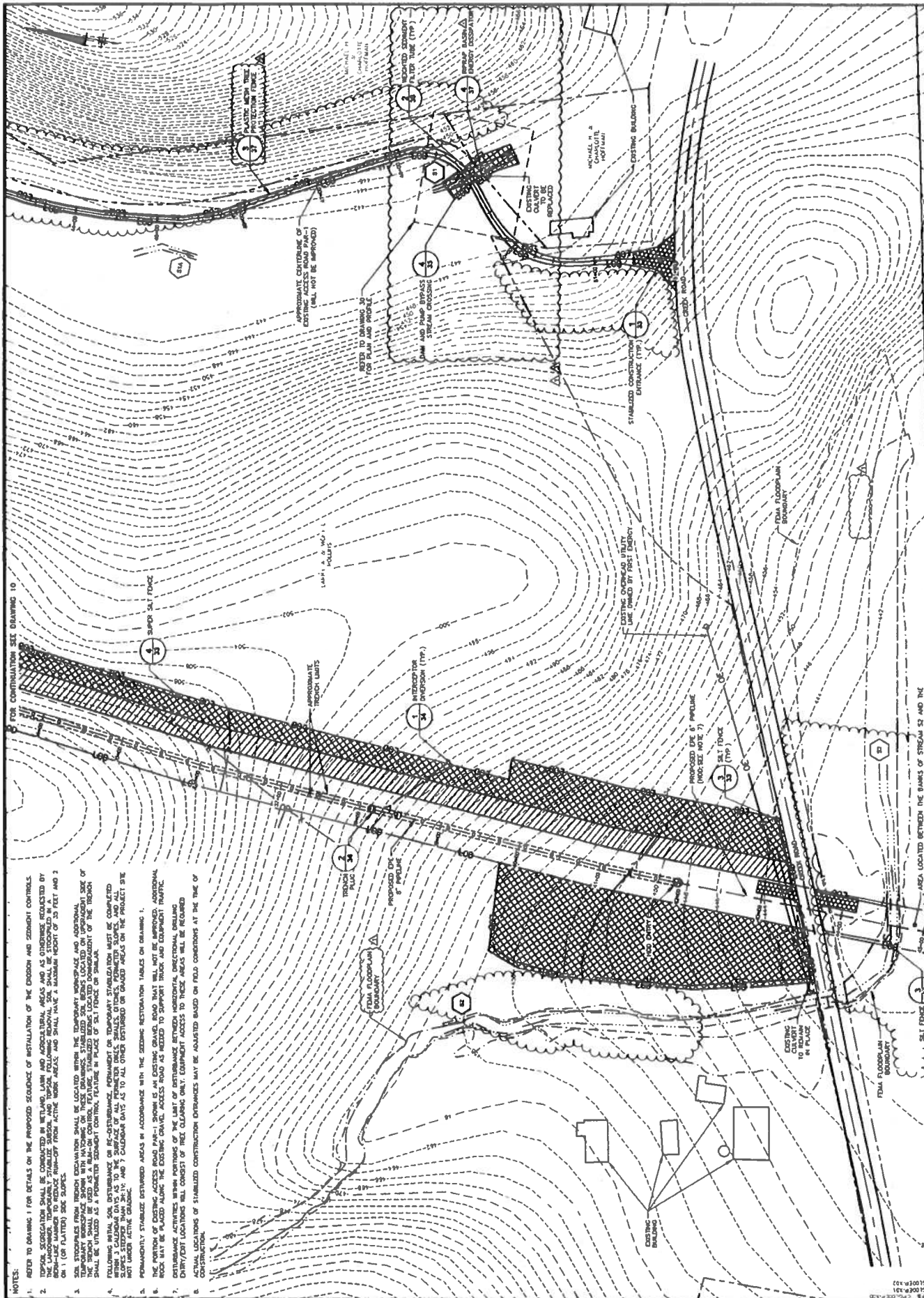
NO. 7	EXISTING ROAD	1/8" = 1'
NO. 8	EXISTING DRAINAGE	1/8" = 1'
NO. 9	EXISTING BUILDING	1/8" = 1'
NO. 10	EXISTING WATER TOWER	1/8" = 1'
NO. 11	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 12	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 13	SOIL EXCAVATION AREA	1/8" = 1'
NO. 14	EXISTING DRAINAGE	1/8" = 1'
NO. 15	EXISTING BUILDING	1/8" = 1'
NO. 16	EXISTING WATER TOWER	1/8" = 1'
NO. 17	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 18	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 19	SOIL EXCAVATION AREA	1/8" = 1'
NO. 20	EXISTING DRAINAGE	1/8" = 1'
NO. 21	EXISTING BUILDING	1/8" = 1'
NO. 22	EXISTING WATER TOWER	1/8" = 1'
NO. 23	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 24	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 25	SOIL EXCAVATION AREA	1/8" = 1'
NO. 26	EXISTING DRAINAGE	1/8" = 1'
NO. 27	EXISTING BUILDING	1/8" = 1'
NO. 28	EXISTING WATER TOWER	1/8" = 1'
NO. 29	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 30	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 31	SOIL EXCAVATION AREA	1/8" = 1'
NO. 32	EXISTING DRAINAGE	1/8" = 1'
NO. 33	EXISTING BUILDING	1/8" = 1'
NO. 34	EXISTING WATER TOWER	1/8" = 1'
NO. 35	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 36	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 37	SOIL EXCAVATION AREA	1/8" = 1'
NO. 38	EXISTING DRAINAGE	1/8" = 1'
NO. 39	EXISTING BUILDING	1/8" = 1'
NO. 40	EXISTING WATER TOWER	1/8" = 1'
NO. 41	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 42	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 43	SOIL EXCAVATION AREA	1/8" = 1'
NO. 44	EXISTING DRAINAGE	1/8" = 1'
NO. 45	EXISTING BUILDING	1/8" = 1'
NO. 46	EXISTING WATER TOWER	1/8" = 1'
NO. 47	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 48	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 49	SOIL EXCAVATION AREA	1/8" = 1'
NO. 50	EXISTING DRAINAGE	1/8" = 1'
NO. 51	EXISTING BUILDING	1/8" = 1'
NO. 52	EXISTING WATER TOWER	1/8" = 1'
NO. 53	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 54	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 55	SOIL EXCAVATION AREA	1/8" = 1'
NO. 56	EXISTING DRAINAGE	1/8" = 1'
NO. 57	EXISTING BUILDING	1/8" = 1'
NO. 58	EXISTING WATER TOWER	1/8" = 1'
NO. 59	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 60	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 61	SOIL EXCAVATION AREA	1/8" = 1'
NO. 62	EXISTING DRAINAGE	1/8" = 1'
NO. 63	EXISTING BUILDING	1/8" = 1'
NO. 64	EXISTING WATER TOWER	1/8" = 1'
NO. 65	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 66	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 67	SOIL EXCAVATION AREA	1/8" = 1'
NO. 68	EXISTING DRAINAGE	1/8" = 1'
NO. 69	EXISTING BUILDING	1/8" = 1'
NO. 70	EXISTING WATER TOWER	1/8" = 1'
NO. 71	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 72	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 73	SOIL EXCAVATION AREA	1/8" = 1'
NO. 74	EXISTING DRAINAGE	1/8" = 1'
NO. 75	EXISTING BUILDING	1/8" = 1'
NO. 76	EXISTING WATER TOWER	1/8" = 1'
NO. 77	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 78	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 79	SOIL EXCAVATION AREA	1/8" = 1'
NO. 80	EXISTING DRAINAGE	1/8" = 1'
NO. 81	EXISTING BUILDING	1/8" = 1'
NO. 82	EXISTING WATER TOWER	1/8" = 1'
NO. 83	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 84	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 85	SOIL EXCAVATION AREA	1/8" = 1'
NO. 86	EXISTING DRAINAGE	1/8" = 1'
NO. 87	EXISTING BUILDING	1/8" = 1'
NO. 88	EXISTING WATER TOWER	1/8" = 1'
NO. 89	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 90	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 91	SOIL EXCAVATION AREA	1/8" = 1'
NO. 92	EXISTING DRAINAGE	1/8" = 1'
NO. 93	EXISTING BUILDING	1/8" = 1'
NO. 94	EXISTING WATER TOWER	1/8" = 1'
NO. 95	APPROXIMATE CENTERLINE OF EXISTING ROAD (NOT BE REDRAWN)	1/8" = 1'
NO. 96	APPROXIMATE PROTECTION EDGE (TYPE 1)	1/8" = 1'
NO. 97	SOIL EXCAVATION AREA	1/8" = 1'
NO. 98	EXISTING DRAINAGE	1/8" = 1'
NO. 99	EXISTING BUILDING	1/8" = 1'
NO. 100	EXISTING WATER TOWER	1/8" = 1'

FOR CONTINUATION SEE DRAWING 8



201760592 / 17-N1-3089

7



NOTES:

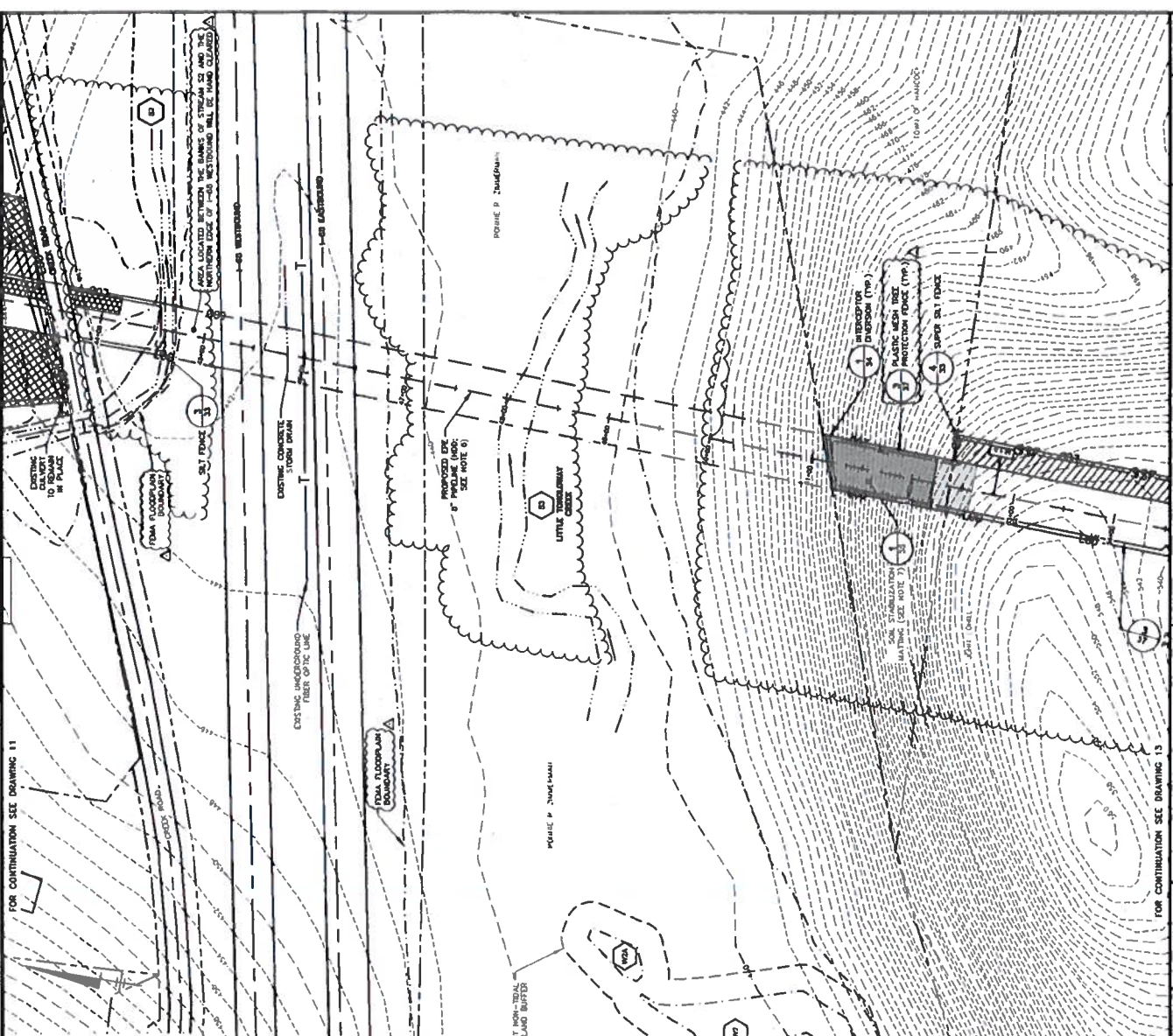
- REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE EXHIBIT AND EXHIBIT CONTROLS. TOPSOIL SEPARATION SHALL BE CONDUCTED IN WETLAND, LAWN AND AGRICULTURAL AREAS AND AS OTHERWISE CONTROLLED BY REGULATORY AGENCIES. TOPSOIL STORAGE SHALL BE CONDUCTED IN AREAS THAT ARE NOT REGULATED AND SHALL HAVE A MAXIMUM HEIGHT OF 3.5 FEET AND 2 INCHES TO 1.5 FEET TO REDUCE EROSION FROM ACTIVE WORK AREAS AND SHALL HAVE A MINIMUM HEIGHT OF 3.5 FEET AND 2 INCHES TO 1.5 FEET TO REDUCE EROSION FROM ACTIVE WORK AREAS.
- SOIL STOCKPILES FROM TRENCH EXCAVATION SHALL BE LOCATED WITHIN THE TEMPORARY WORKSPACE AND ADDITIONAL STOCKPILES SHALL BE LOCATED WITHIN THE TEMPORARY WORKSPACE. SOIL STOCKPILES SHALL BE LOCATED WITHIN THE TEMPORARY WORKSPACE. SOIL STOCKPILES SHALL BE LOCATED WITHIN THE TEMPORARY WORKSPACE.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 30 DAYS OF THE DISTURBANCE. PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 30 DAYS OF THE DISTURBANCE. PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 30 DAYS OF THE DISTURBANCE.
- PERMANENTLY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING RESTORATION TABLES ON DRAWING 1. THE PORTION OF EXISTING ACCESS ROAD PART-1 SHOWN IS AN EXISTING GRAVEL ROAD THAT WILL NOT BE IMPROVED. ADDITIONAL ROAD MAY BE PLACED ALONG THE EXISTING GRAVEL ACCESS ROAD AS NEEDED TO SUPPORT TRUCK AND EQUIPMENT TRAFFIC. DISTURBED AREAS WITHIN PORTIONS OF THE LANE OF DISTURBANCE BETWEEN HORIZONTAL, DIRECTIONAL, DRILLING, ENTRY/EXIT LOCATIONS WILL CONSIST OF THE CLEARING ONLY. EQUIPMENT ACCESS TO THESE AREAS WILL BE REQUIRED.
- ACTUAL LOCATIONS OF STABILIZED CONSTRUCTION ENTRANCES MAY BE ADJUSTED BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.

ARCADIS THE LEADING CONSULTANTS IN THE WORLD ARCADIS U.S. INC. COLUMBIA, MISSOURI EASTERN PANTHAMBLE EXPANSION PROJECT		PROJECT NO. DRAWING NO. DATE SCALE
ALLEN LONG PROJECT MANAGER PROJECT NO. 20176059Z DATE 11/11/17		PROJECT NO. DRAWING NO. DATE SCALE
PROJECT NO. 20176059Z DRAWING NO. 11 DATE 11/11/17 SCALE AS SHOWN		11

20176059Z / 17-NT-3069

SITE PLAN (STA. 34+50 TO 44+00)

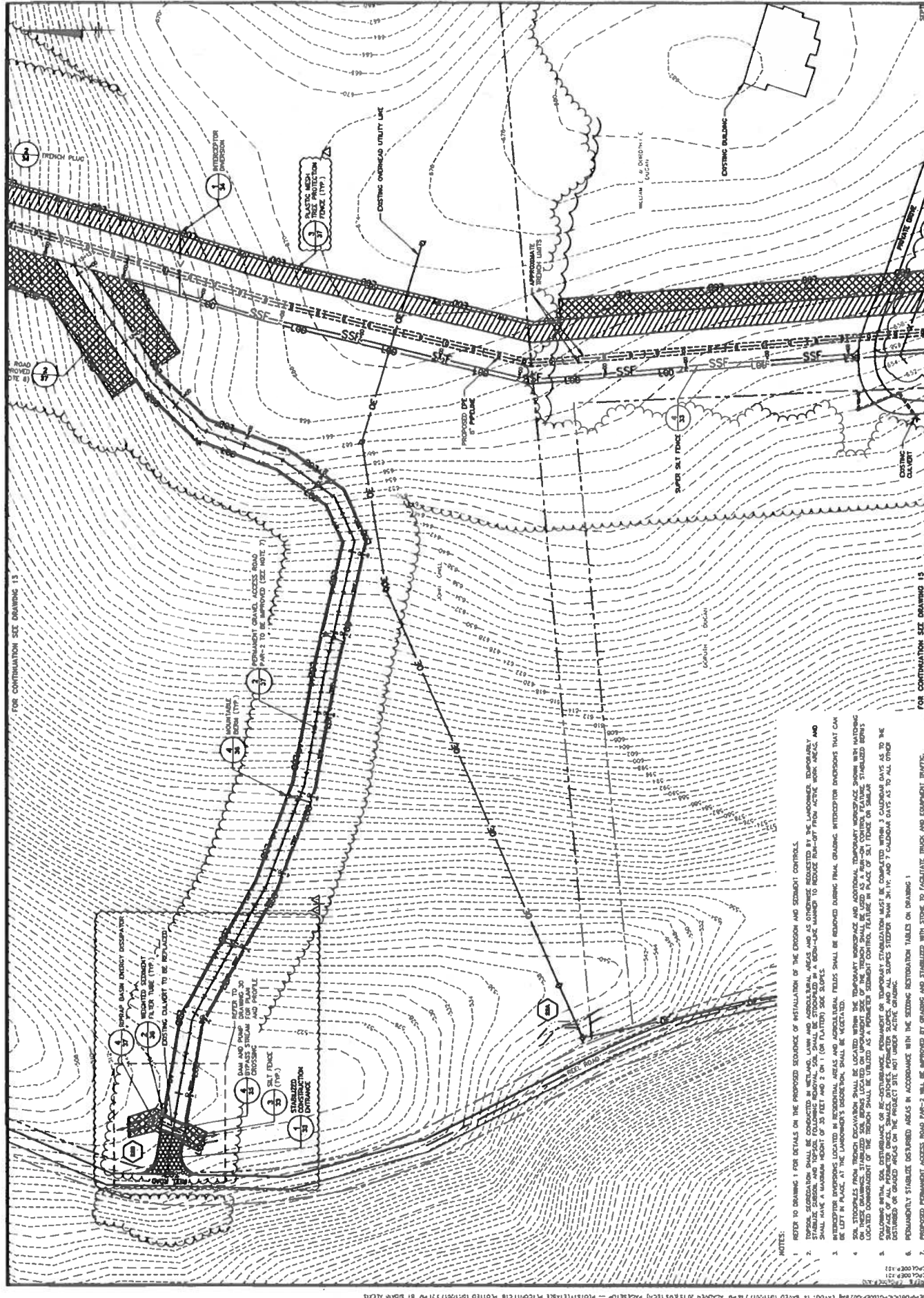
- NOTES:
1. REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE EROSION AND SEDIMENT CONTROLS.
 2. TOPSOIL RECOGNITION SHALL BE CONDUCTED IN WETLAND, LAKE AND AGRICULTURAL AREAS AND AS OTHERWISE REQUESTED BY THE LANDOWNER. TEMPORARILY STABILIZE SURFACE AND TOPSOIL FOLLOWING REMOVAL. SOIL SHALL BE STOCKPILED IN A BERM-LIKE MANNER TO REDUCE RUN-OFF FROM ACTIVE WORK AREAS, AND SHALL HAVE A MAXIMUM HEIGHT OF 30 FEET AND 2 ON 1 (OR FLATTER) SEE SLOPE.
 3. SOIL STOCKPILES FROM REMOVAL OPERATIONS SHALL BE LOCATED WITHIN THE BUFFER ZONE. THE STOCKPILES SHALL BE USED AS A RUN-ON CONTROL FEATURE. STABILIZED BERM LOCATED DOWNSTREAM OF THE TRENCH SHALL BE UTILIZED AS A PERIMETER SEDIMENT CONTROL FEATURE IN PLACE OF SILT FENCE OR SLOTTED.
 4. FOLLOWING INITIAL AND SUBSEQUENT RE-ENTRY OF DISTURBED AREAS, RE-ENTRY SHALL BE COMPLETED WITHIN 1 MONTH. RE-ENTRY SHALL BE COMPLETED WITHIN 1 MONTH OF THE DATE OF THE RE-ENTRY. RE-ENTRY SHALL BE COMPLETED WITHIN 1 MONTH OF THE DATE OF THE RE-ENTRY.
 5. PERMANENTLY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING RESTORATION TABLES ON DRAWING 1.
 6. OBSTACLES AND OTHER FEATURES WITHIN PORTIONS OF THE SITE OF DISTURBANCE BETWEEN HORIZONTAL OBSTRUCTION DRILLING ENTRY/EXIT LOCATIONS WILL CONSIST OF TREE CLEARING ONLY EXCEPT ACCESS TO THESE AREAS WILL BE MAINTAINED.
 7. SOIL STABILIZATION MATTING HAS BEEN PROPOSED ON SLOPES STEEPER THAN 3H:1V.



FOR CONTINUATION SEE DRAWING 11

FOR CONTINUATION SEE DRAWING 13

		ARCADIS U.S. INC. 1125 WEST 17TH AVENUE DENVER, CO 80202	
PROJECT NO. 17-NT-3089 PROJECT NAME: EASTERN PANHANDLE EXPANSION PROJECT PROJECT LOCATION: LAMBDA GAS TRANSMISSION LLC, FARMACOUNTY, TEXAS		PROJECT NO. 17-NT-3089 PROJECT NAME: EASTERN PANHANDLE EXPANSION PROJECT PROJECT LOCATION: LAMBDA GAS TRANSMISSION LLC, FARMACOUNTY, TEXAS	
DATE: 03/01/2017 DRAWN BY: [Name] CHECKED BY: [Name]		DATE: 03/01/2017 DRAWN BY: [Name] CHECKED BY: [Name]	
SCALE: AS SHOWN		SCALE: AS SHOWN	
SHEET NO. 12		SHEET NO. 12	



FOR CONTINUATION SEE DRAWING 13

FOR CONTINUATION SEE DRAWING 15

- NOTES:
1. REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE EROSION AND SEDIMENT CONTROLS.
 2. TOPSOIL SEEDING SHALL BE CONDUCTED IN WETLAND, LAWN AND AGRICULTURAL AREAS AND AS OTHERWISE REQUESTED BY THE LANDOWNER. TEMPORARILY STABILIZE EXPOSED SOILS AND TOPSOIL FOLLOWING REMOVAL. SOIL SHALL BE STABILIZED BY A BERM-USE MANNER TO REDUCE RUN-OFF FROM ACTIVE WORK AREAS, AND SHALL HAVE A MINIMUM LENGTH OF 20 FEET AND 2 IN. (OR EQUIVALENT) SLOPE.
 3. RESTORATION TABLES SHALL BE INSTALLED IN ALL EXPOSED AREAS. RESTORATION TABLES SHALL BE REMOVED DURING FINAL GRADING. INTERPRETATION PROVISIONS THAT CAN BE LEFT IN PLACE AT THE LANDOWNER'S DISCRETION SHALL BE ACCEPTED.
 4. SOIL STOCKPILES FROM TRENCH EXCAVATION SHALL BE LOCATED WITHIN THE TEMPORARY WORKSPACE AND ADDITIONAL TEMPORARY WORKSPACE SHOWN WITH HOLDING OR TRENCH DRAINAGE. STABILIZED SOIL BERM SHALL BE LOCATED ON UPDRAIN SIDE OF THE TRENCH. SOIL SHALL BE USED AS A RUN-ON CONTROL FEATURE. STABILIZED BERM SHALL BE LOCATED ON DOWNDRAIN SIDE OF THE TRENCH. SOIL SHALL BE USED AS A PERMETER SEDIMENT CONTROL FEATURE IN PLACE OF SILT FENCE OR SIMILAR LOCKED CONFINEMENT OF THE TRENCH SHALL BE UTILIZED AS A PERMETER SEDIMENT CONTROL FEATURE IN PLACE OF SILT FENCE OR SIMILAR LOCKED CONFINEMENT OF THE TRENCH.
 5. FOLLOWING INITIAL SOIL SETTLEMENT OR RE-DISTRIBUTION, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 3 CALENDAR DAYS AS TO THE DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE DRAINAGE. THE ABOVE SCHEDULE SHALL BE 24 HOURS PER DAY, 7 CALENDAR DAYS AS TO ALL OTHER AREAS.
 6. PROBABLY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING RESTORATION TABLES ON DRAWING 1.
 7. PROPOSED PERMANENT ACCESS ROAD PAV-3 WILL BE APPROVED BY GRADING AND STABILIZED WITH STONE TO FACILITATE TRUCK AND EQUIPMENT TRAFFIC.

ALLEN LONG
 PROJECT NO. 17-NT-3089
 DRAWING NO. 14
 DATE: 08/11/2017
 SCALE: AS SHOWN

14

SITE PLAN (STA. 69+00 TO 78+00)
 20176092 / 17-NT-3089

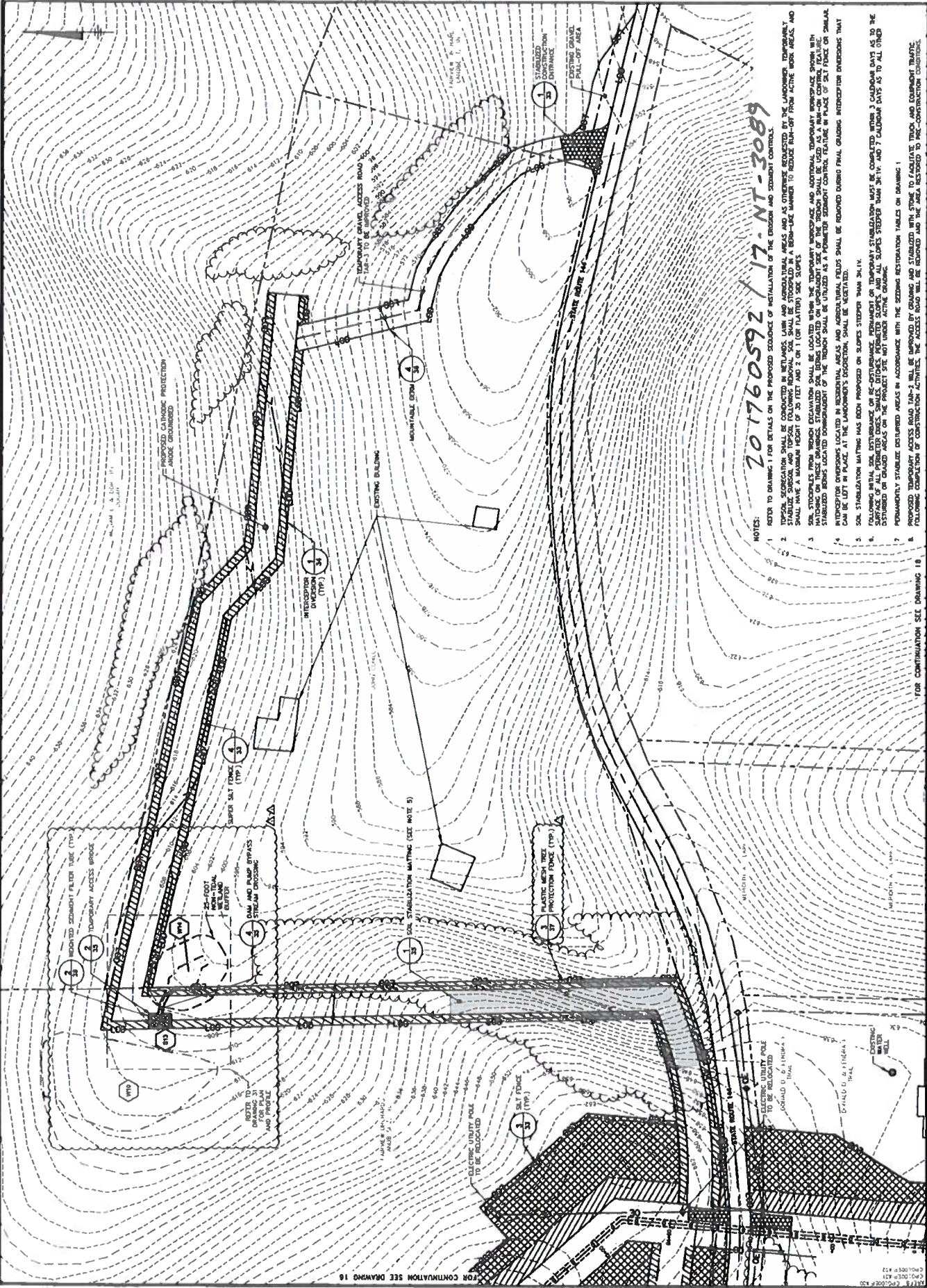
COLUMBIA GOLF MANAGEMENT, LLC, 11850 COLUMBIA COMPANY + PROJECT, TEXAS
 EASTERN FAIRWAY EXPANSION PROJECT

FOR CONTINUATION SEE DRAWING 13

FOR CONTINUATION SEE DRAWING 15

ARCADIS | ARCADIS U.S. INC.

ARCADIS U.S. INC.



- NOTES:
1. REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE ANODE AND SODIUM CHLORIDE.
 2. TYPICAL SEPARATING SHALL BE CONCRETE IN METALLIC LAMIN AND APPROXIMATE AREAS AND AS OTHERWISE REQUESTED BY THE LANDOWNER. TEMPORARILY EXISTING SHALL BE MAINTAINED IN PLACE UNTIL THE ANODE IS INSTALLED. TEMPORARILY EXISTING SHALL HAVE A MINIMUM HEIGHT OF 20 FEET AND 2 OR 1 (OR FLATTER) SIDE SLOPES.
 3. SOIL STABILIZATION FROM TRENCH EXCAVATION SHALL BE LOCATED WITHIN THE TEMPORARY INTERSPACE AND ADDITIONAL TEMPORARY INTERSPACE WITH MATING ON THESE DRAWINGS. STABILIZED SOIL BEING LOCATED ON UPSTREAM SIDE OF THE TRENCH SHALL BE USED AS A MAIN-ON CONTROL FEATURE. STABILIZED SOILS LOCATED DOWNSTREAM OF THE TRENCH SHALL BE UTILIZED AS A POTENTIAL TEMPORARY CONTROL FEATURE IN PLACE OF SALT FORCE OR SIMILAR.
 4. INTERSPACE DOWNSTREAM LOCATED IN RECREATIONAL AREAS AND APPROXIMATE AREAS AND AS OTHERWISE REQUESTED BY THE LANDOWNER. TEMPORARILY EXISTING SHALL BE MAINTAINED IN PLACE UNTIL THE ANODE IS INSTALLED. TEMPORARILY EXISTING SHALL HAVE A MINIMUM HEIGHT OF 20 FEET AND 2 OR 1 (OR FLATTER) SIDE SLOPES.
 5. SOIL STABILIZATION MATING HAS BEEN PROVIDED ON SLOPES STEEPER THAN 3:1 V.
 6. FOLLOWING OF ALL SOIL STABILIZATION OR SOIL STABILIZATION MATERIALS SHALL BE PROVIDED TO THE LANDOWNER. TEMPORARILY EXISTING SHALL BE MAINTAINED IN PLACE UNTIL THE ANODE IS INSTALLED. TEMPORARILY EXISTING SHALL HAVE A MINIMUM HEIGHT OF 20 FEET AND 2 OR 1 (OR FLATTER) SIDE SLOPES.
 7. TEMPORARILY STABILIZED AREAS IN ACCORDANCE WITH THE DRAWING RESTORATION TABLES ON DRAWING 1.
 8. PROPOSED TEMPORARY ACCESS ROAD TAP-2 WILL BE IMPROVED BY GRADING AND STABILIZED WITH STONE TO FACILITATE TRUCK AND EQUIPMENT TRAFFIC. FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES, THE ACCESS ROAD WILL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

FOR CONTINUATION SEE DRAWING 18

201760592 / 17-NY-3089

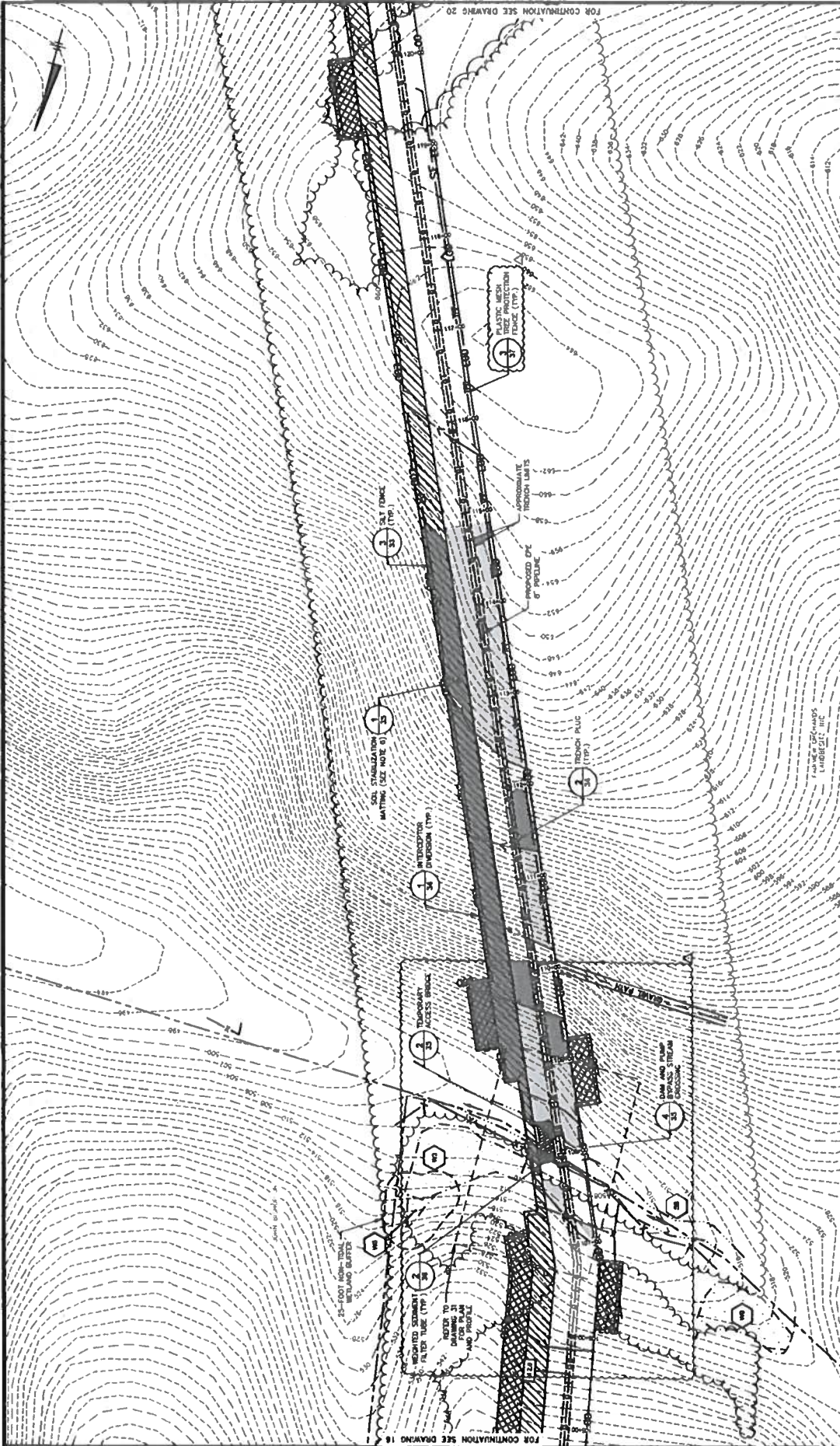
DATE	10/27/11
SCALE	AS SHOWN
PROJECT	STATION 94+25
DESIGNER	ARCADIS
DATE	10/27/11

SITE PLAN (CATHODIC PROTECTION ANODE GROUNDBED AT STA. 94+25)

EASTERN PANHANDLE EXPANSION PROJECT
 U.S. FEDERAL HIGHWAY ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, HOUSTON, TEXAS



PROJECT	STATION 94+25
DATE	10/27/11
SCALE	AS SHOWN
DESIGNER	ARCADIS
DATE	10/27/11
PROJECT	STATION 94+25
SCALE	AS SHOWN
DESIGNER	ARCADIS
DATE	10/27/11



- NOTES:
1. REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE DIKE AND SEDIMENT CONTROLS.
 2. SALT FENCE HAS BEEN PROPOSED AROUND THE PERIMETER OF AGRICULTURAL RESOURCES (I.E. WETLANDS/STREAMS) FOR FLOOD REGULATION, UNDERSTANDING THAT THE CONTROLS DO NOT FOLLOW THE ELEVATION CONTOURS IN ALL LOCATIONS.
 3. TOPSOIL SEPARATION SHALL BE CONDUCTED IN WETLAND, LAWN AND AGRICULTURAL AREAS AND AS OTHERWISE REQUESTED BY THE LANDOWNER. TEMPORARILY STABILIZE SUBSOIL AND TOPSOIL FOLLOWING REMOVAL. SOIL SHALL BE STOCKPILED IN A BERM-LIKE MANNER TO REDUCE RUN-OFF FROM ACTIVE WORK AREAS, AND SHALL HAVE A MINIMUM HEIGHT OF 24 FEET AND 2 ON 1 (OR FLATTER) SIDE SLOPES.
 4. TEMPORARILY STABILIZED SOIL BERMES LOCATED ON UPGRADEMENT SIDE OF THE TRENCH SHALL BE USED AS A BERM-TO-CONTROL FUTURE STABILIZED BERMS LOCATED DOWNDRAINAGE OF THE TRENCH SHALL BE UTILIZED AS A PERMANENT SEDIMENT CONTROL FEATURE IN PLACE OF SALT FENCE OR SIMILAR.
 5. INTERCEPTOR DIMENSIONS LOCATED IN RESIDENTIAL AREAS AND AGRICULTURAL FIELDS SHALL BE REMOVED DURING FINAL GRADEING. INTERCEPTOR DIMENSIONS THAT CAN BE LEFT IN PLACE, AT THE LANDOWNER'S DISCRETION, SHALL BE VEGETATED.
 6. SOIL STABILIZATION MATING HAS BEEN PROPOSED ON SLOPES STEEPER THAN 2H:1V.
 7. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 3 CALENDAR DAYS AS TO THE EXPOSED SOIL SURFACE. SOIL STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS OF INITIAL SOIL DISTURBANCE ON ALL SLOPES STEEPER THAN 1H:1V, AND ALL SLOPES STEEPER THAN 3H:1V, AND 7 CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 8. PERMANENTLY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE SEDIMENT RESTORATION TABLES ON DRAWING 1.

FOR CONTINUATION SEE DRAWING 19

FOR CONTINUATION SEE DRAWING 20

ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NAME: EASTERN PANHANDLE EXPANSION PROJECT

ARCADIS PROJECT LOCATION: COLLEEN, EAST PANHANDLE COUNTY, OKLAHOMA

ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NUMBER: 201760592 / 17-NT-3089

ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NAME: EASTERN PANHANDLE EXPANSION PROJECT

ARCADIS PROJECT LOCATION: COLLEEN, EAST PANHANDLE COUNTY, OKLAHOMA

ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NUMBER: 201760592 / 17-NT-3089

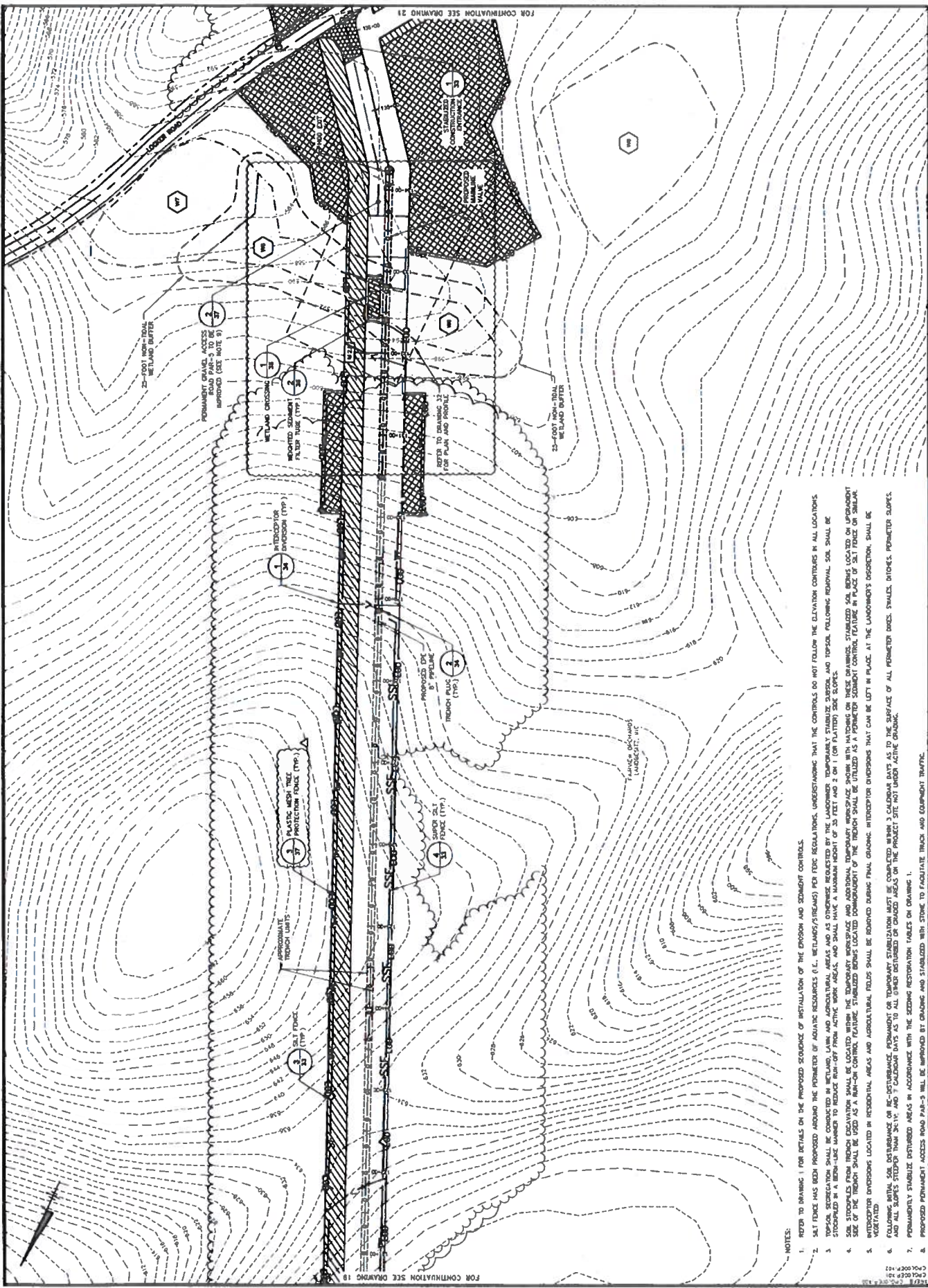
ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NAME: EASTERN PANHANDLE EXPANSION PROJECT

ARCADIS PROJECT LOCATION: COLLEEN, EAST PANHANDLE COUNTY, OKLAHOMA

ARCADIS PROJECT NUMBER: 201760592

ARCADIS PROJECT NUMBER: 201760592 / 17-NT-3089



FOR CONTINUATION SEE DRAWING 18

FOR CONTINUATION SEE DRAWING 21

NOTES:

1. REFER TO DRAWING 1 FOR DETAILS ON THE PROPOSED SEQUENCE OF INSTALLATION OF THE EROSION AND SEDIMENT CONTROLS.
2. SILT FENCE HAS BEEN PROPOSED AROUND THE PERIMETER OF AGRI-CULTURAL RESOURCES (E.G., WETLANDS/STREAMS) PER FERC REGULATIONS. UNDERSTANDING THAT THE CONTROLS DO NOT FOLLOW THE ELEVATION CONTOURS IN ALL LOCATIONS.
3. TOPSOIL SEPARATION SHALL BE CONDUCTED IN WETLAND, LAKE, AND AGRICULTURAL AREAS AND AS OTHERWISE SPECIFIED BY THE LANDOWNER. TEMPORARILY STABILIZE SLOPES AND TOPSOIL FOLLOWING REMOVAL. SOIL SHALL BE STORED IN A BERTH AREA TO BE RELOCATED TO THE ACTIVE AREA. AND SHALL HAVE AGRICULTURAL PROTECTION FENCES LOCATED AS NEARLY AS POSSIBLE TO THE PERIMETER OF THE BERTH AREA. THE PERIMETER OF THE BERTH AREA SHALL BE USED AS A BERTH CONTROL FEATURE. STABILIZED BERTH LOCATED DOWNSTREAM OF THE TRENCH SHALL BE UTILIZED AS A PERMANENT SEDIMENT CONTROL FEATURE IN PLACE OF SILT FENCE OR SIMILAR.
4. INTERCEPTOR DITCHES LOCATED IN RESIDENTIAL, AREAS AND AGRICULTURAL AREAS SHALL BE RELOCATED DURING FINAL GRADING. INTERCEPTOR DITCHES THAT CAN BE LEFT IN PLACE AT THE LANDOWNER'S DISCRETION, SHALL BE VEGETATED.
5. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 3 CALENDAR DAYS AS TO THE SURFACE OF ALL PERMETER DICES, STABLES, DITCHES, PERMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 V. AND 7 CALENDAR DAYS AS TO ALL OTHER DISTURBED OR CHANGED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
6. PERMANENTLY STABILIZED DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING RESTORATION TABLES ON DRAWING 1.
7. PROPOSED PERMANENT ACCESS ROAD PAB-5 WILL BE APPROVED BY GRADING AND STABILIZED WITH STONE TO FACILITATE TRUCK AND EQUIPMENT TRAFFIC.

Scale: 1" = 50'

DATE: 08/11/2017

PROJECT: EASTERN PANHANDLE EXPANSION PROJECT

LOCATION: COLUMBIA GAS TRANSMISSION LLC, TEXAS-CANADA COMPANY, HOUSTON, TEXAS

10176052 / 17-NT-3089

ARCADIS | Energy & Construction

ARCADIS U.S. INC.

20