



*Commonwealth of Virginia*

***VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY***

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

P.O. Box 1105, Richmond, Virginia 23218

(800) 592-5482

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Travis A. Voyles  
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director  
(804) 698-4020

October 12, 2023

Mr. Cory Chalmers  
Senior Environmental Coordinator  
Equitrans Midstream Corporation  
2200 Energy Drive  
Canonsburg, PA 15317

*Transmitted electronically: [CChalmers@equitransmidstream.com](mailto:CChalmers@equitransmidstream.com)*

Re: Mountain Valley Pipeline, LLC (MVP)  
Erosion & Sediment Control (ESC) Plan Modification (2) Approvals

Dear Mr. Chalmers:

The Department of Environmental Quality (DEQ) hereby approves the following modifications to the Erosion & Sediment Control (ESC) Plan:

- MLV-23 and MVP-MLV-AR-23, Sheets 12.07ES and 12.08ES, Sign/Seal dated 8/14/2023, Sheet 12.08PC, Sign/Seal dated 12/7/2022.
- MLV29, H602/H-603 Tap Sites, Details 33.1-33.4, Sheet 14.34ES, Sign/Seal dated 3/30/2022, Sheets 15.78 ES, 15.91ES, Sign/Seal dated 5/5/2022 Sheets 15.92ES, 15.93ES, 14.34AES, Sign/Seal dated 8/14/2023.

**No additional modifications, updates or additions may be made to the approved Plans without obtaining prior approval from DEQ. Additionally, approval of these modifications does not relieve the owner and/or operator of complying with all other federal, state, or local laws and regulations. Please ensure that copies of this approval letter, the approved plan modification, and the corresponding MVP Program Administrator approval letter are made available to the public, inspection staff and field staff in accordance with the DEQ-approved MVP Annual Standards and Specifications.**

October 12, 2023  
Mr. Cory Chalmers  
Re: Mountain Valley Pipeline LLC  
Page 2 of 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty (30) days from the date you received this decision within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

It is the responsibility of the owner and/or operator to ensure that the project is constructed in accordance with the approved Plans and accompanying specifications. Upon completion of the project, the owner and/or operator will be required to submit construction record drawings for all permanent stormwater management facilities (i.e., post-development best management practices) constructed in accordance with the approved Plans.

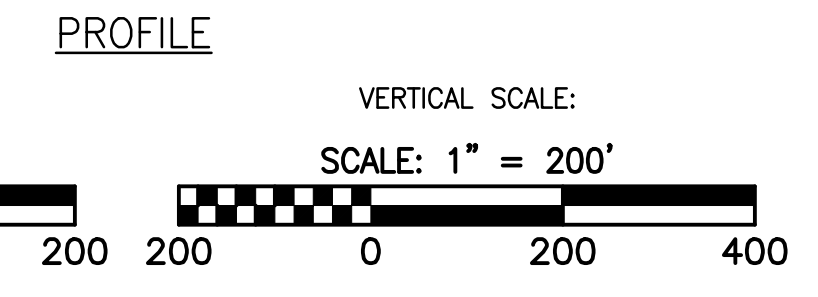
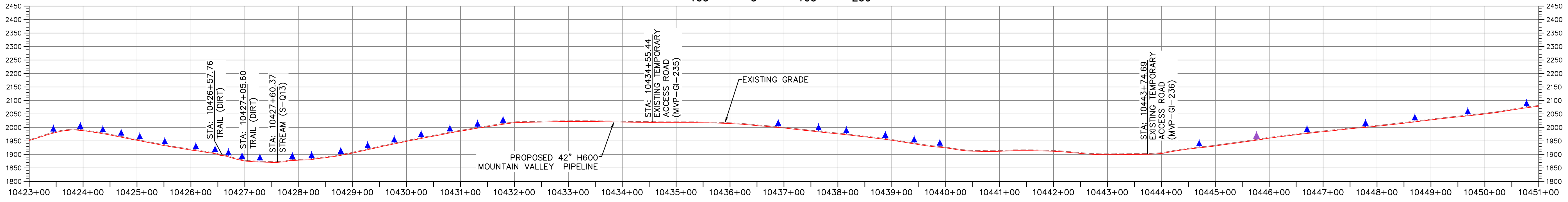
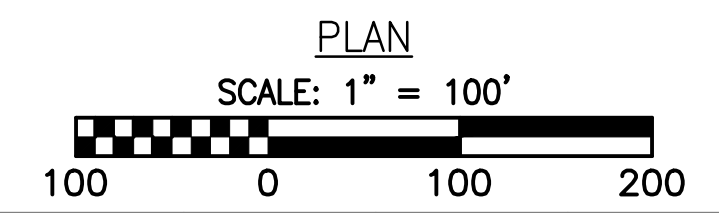
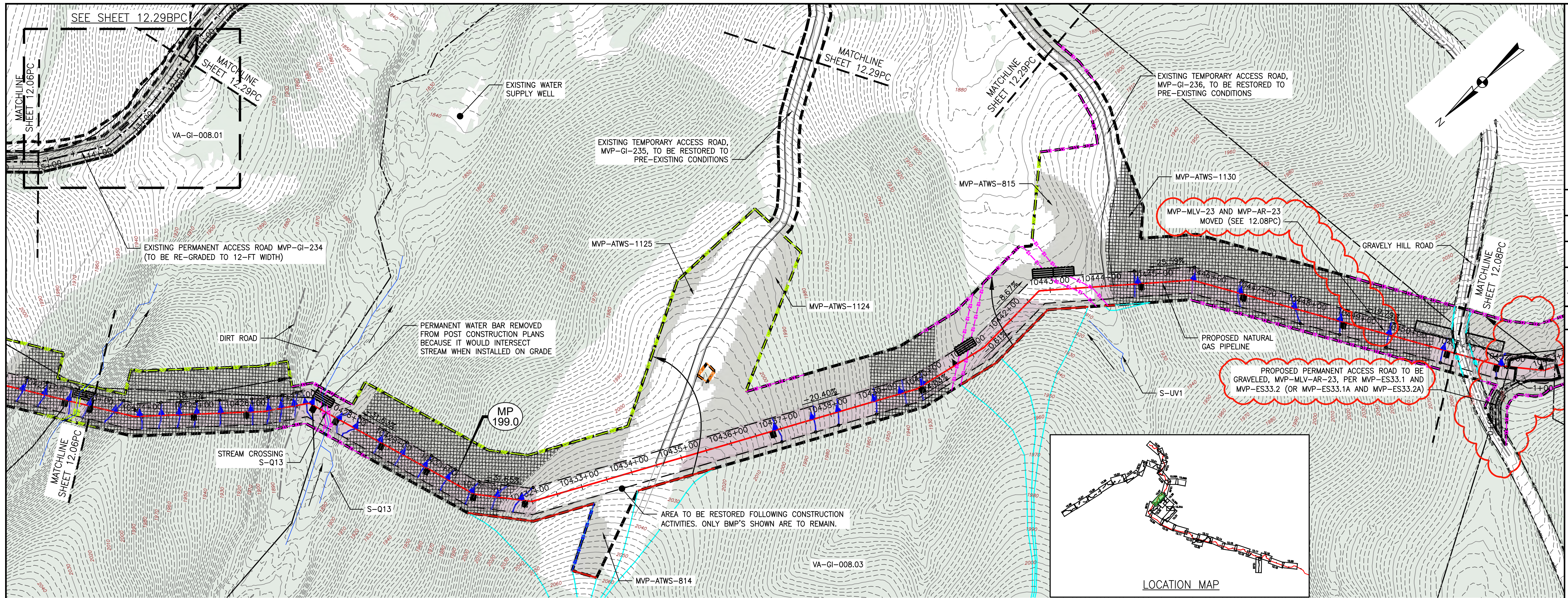
Please contact Mr. Larry Gavan at (804) 965-3320 or [Larry.Gavan@deq.virginia.gov](mailto:Larry.Gavan@deq.virginia.gov) if you have any questions about this letter.

Sincerely,

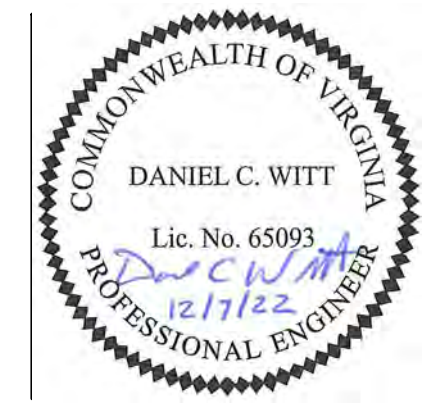
A handwritten signature in black ink, appearing to read "Kyle Kennedy".

Kyle Kennedy, P.E.  
Manager  
Office of Stormwater Management

Cc: John McCutcheon, DEQ-CO  
Jay Lemmerman, WSSI



- LEGEND**
- EXISTING CULVERT
  - STREAM
  - - - EXISTING PROPERTY LINE
  - - - EXISTING STATE LINE
  - - - EXISTING COUNTY LINE
  - - - EXISTING ROAD/TRAIL
  - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
  - APPALACHIAN NATIONAL SCENIC TRAIL
  - ACID FORMING MATERIAL
  - GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
  - - - PROPOSED LIMIT OF DISTURBANCE
  - - - PROPOSED PERMANENT RIGHT OF WAY
  - PROPOSED LEVEL SPREADER DIVERSION
  - PROPOSED LEVEL SPREADER
  - PROPOSED ACCESS ROAD CENTERLINE
  - PROPOSED PIPELINE
  - SURFACE WATER FLOW DIRECTION
  - POND
  - WETLAND
  - PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
  - APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)
  - STREAM FLOW DIRECTION
  - FEMA 100 YEAR FLOODPLAIN
  - PERMANENT WATER BAR 10' END TREATMENT
  - PERMANENT WATER BAR 15' END TREATMENT
  - PERMANENT WATER BAR 20' END TREATMENT
  - STEEP SLOPE AREA
  - EXISTING FOREST
  - PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
  - TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION



THIS SEAL APPLIES ONLY TO REVISIONS DATED 12-07-22

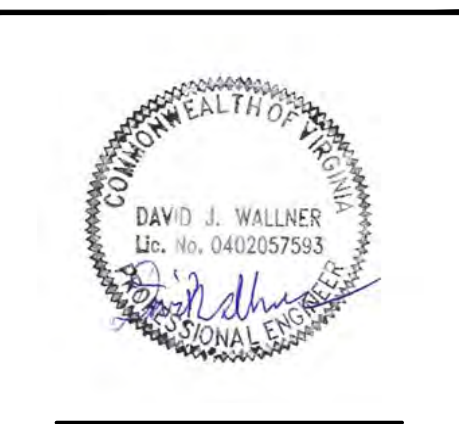
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
  - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	12/07/22			UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23
2	01/29/19			FIELD MODIFICATION - MP 199.0 (MVP-25 SITE AND ACCESS ROAD MVP-MLV-AR-23)
3	03/21/18			ADDRESS VABEC COMMENTS
4	03/16/18			ADDRESS VABEC COMMENTS
5	02/16/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/16/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
7	02/05/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

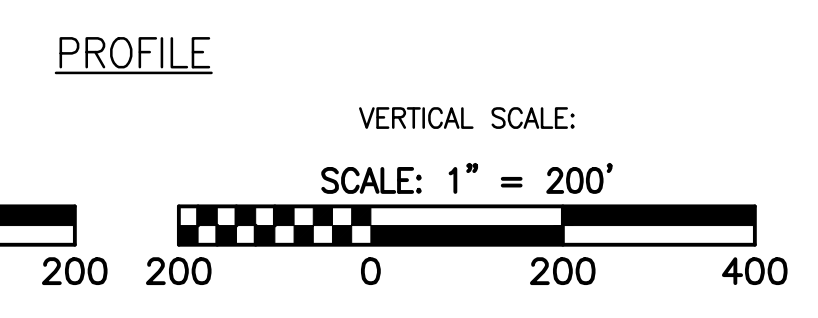
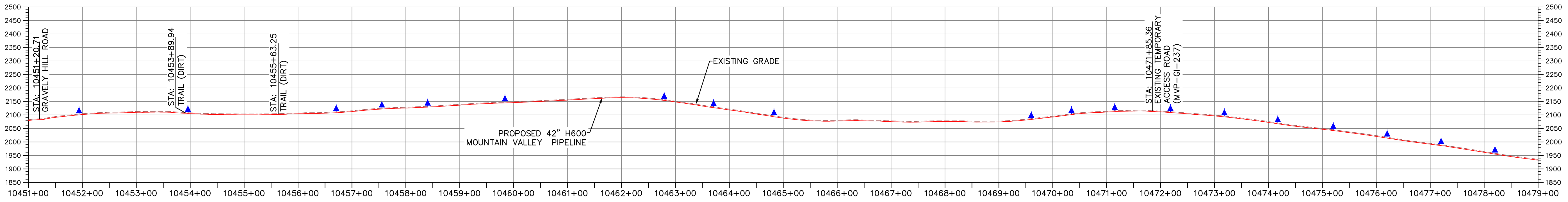
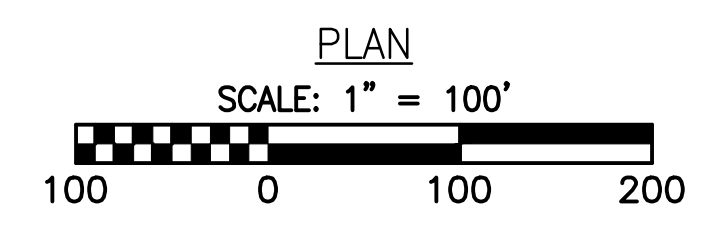
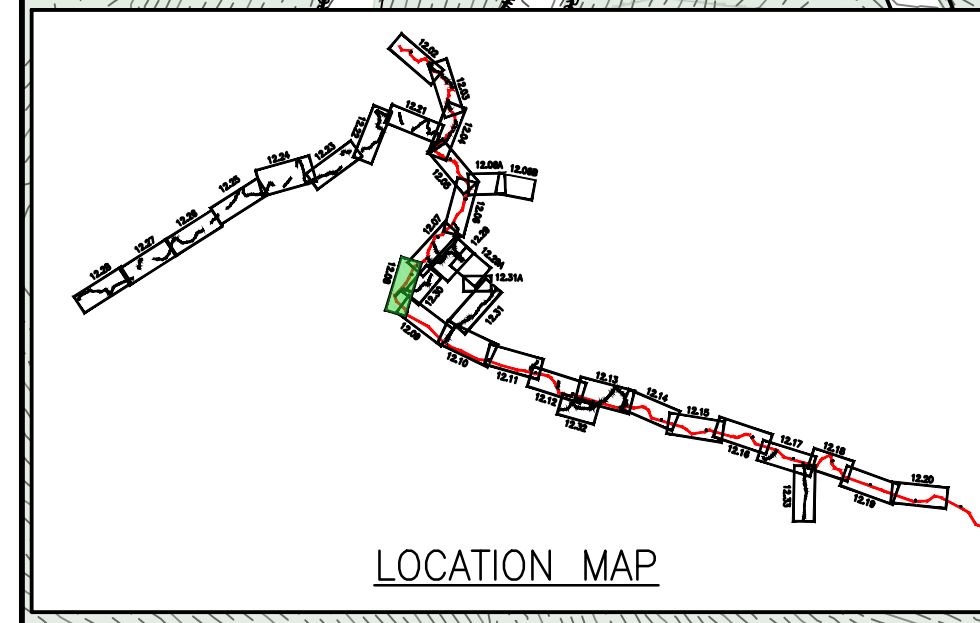
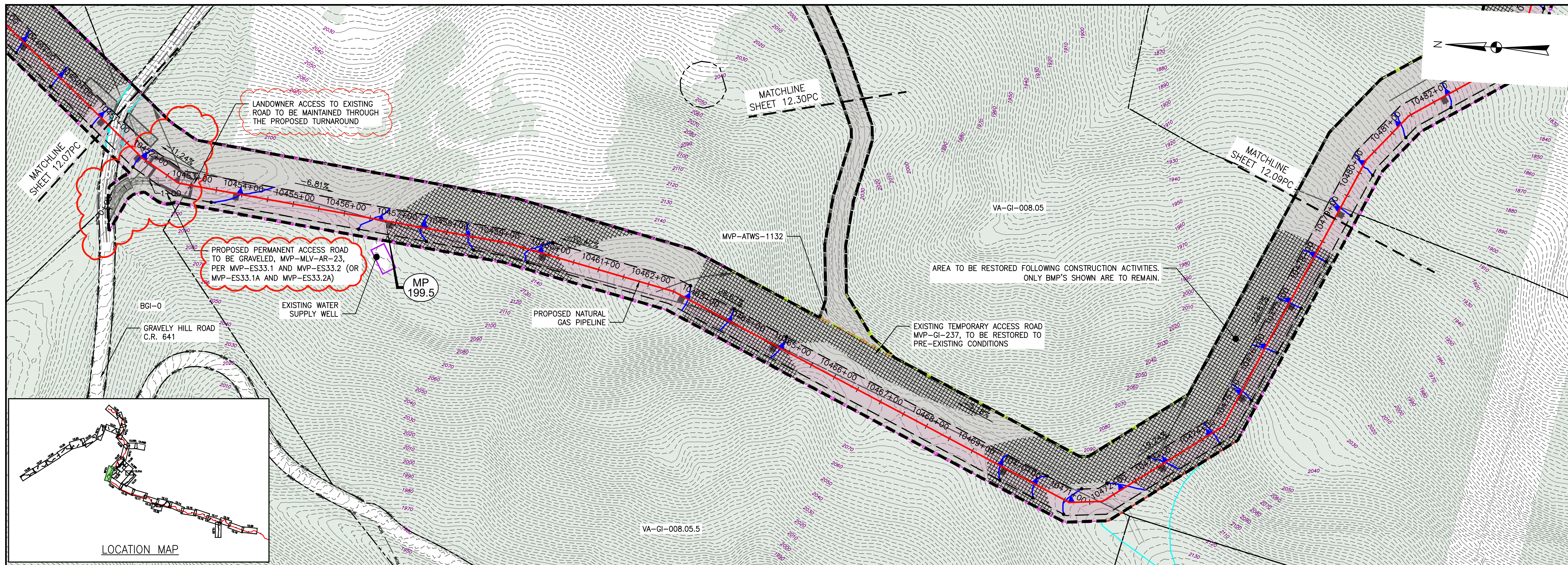
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS  
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE  
SPREAD 8 - GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
2200 ENERGY DRIVE  
CANONSBURG, PA 15317

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	12/07/2022
SCALE:	AS SHOWN
SHT. NO. 12.07PC OF 12.33PC	



- LEGEND**
- EXISTING CULVERT
  - STREAM
  - - - EXISTING PROPERTY LINE
  - - - EXISTING STATE LINE
  - - - EXISTING COUNTY LINE
  - - - EXISTING ROAD/TRAIL
  - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
  - APPALACHIAN NATIONAL SCENIC TRAIL
  - ACID FORMING MATERIAL
  - GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
  - - - PROPOSED LIMIT OF DISTURBANCE
  - - - PROPOSED PERMANENT RIGHT OF WAY
  - PROPOSED LEVEL SPREADER DIVERSION
  - PROPOSED LEVEL SPREADER
  - PROPOSED ACCESS ROAD CENTERLINE
  - PROPOSED PIPELINE
  - SURFACE WATER FLOW DIRECTION
  - POND
  - WETLAND
  - PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
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  - STREAM FLOW DIRECTION
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  - PERMANENT WATER BAR 10' END TREATMENT
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THIS SEAL APPLIES ONLY TO REVISIONS DATED 12-07-22

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
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2	01/29/19			FIELD MODIFICATION - MP 199.5 SITE AND ACCESS ROAD MVP-MLV-AR-23
3	03/21/18			ADDRESS VADOC COMMENTS
4	03/16/18			ADDRESS VADOC COMMENTS
5	02/16/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/16/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
7	02/05/18			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

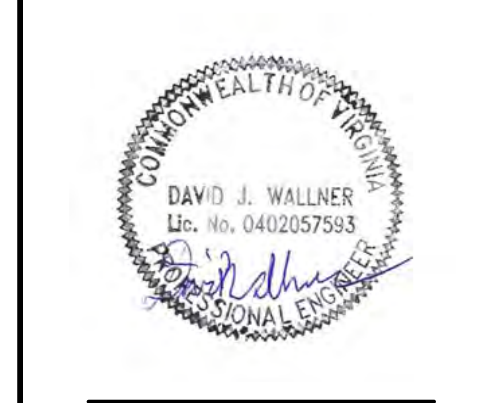
**POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS**  
**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**  
 SPREAD 8 - GILES COUNTY, VIRGINIA

**MOUNTAIN VALLEY PIPELINE, LLC**  
 2200 ENERGY DRIVE  
 CANONSBURG, PA 15317

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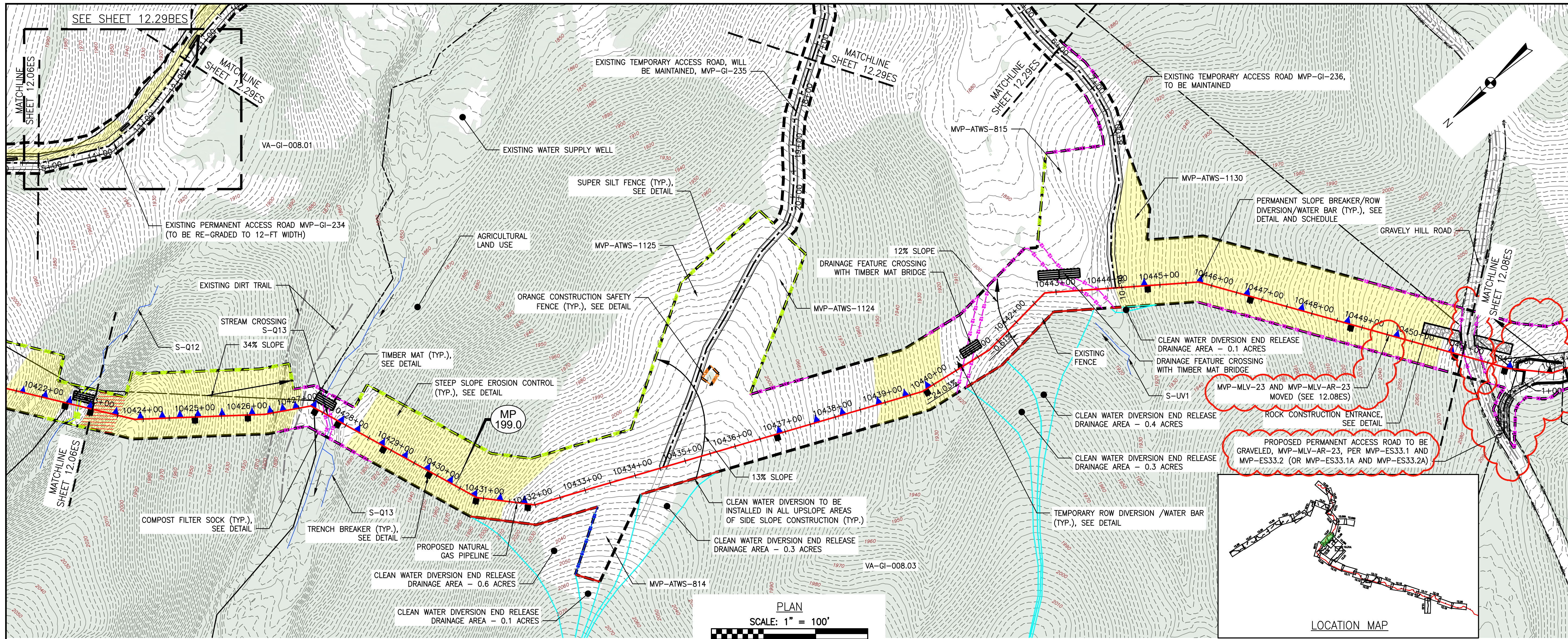
661 ANDERSEN DRIVE  
 FOSTER PLAZA 7  
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

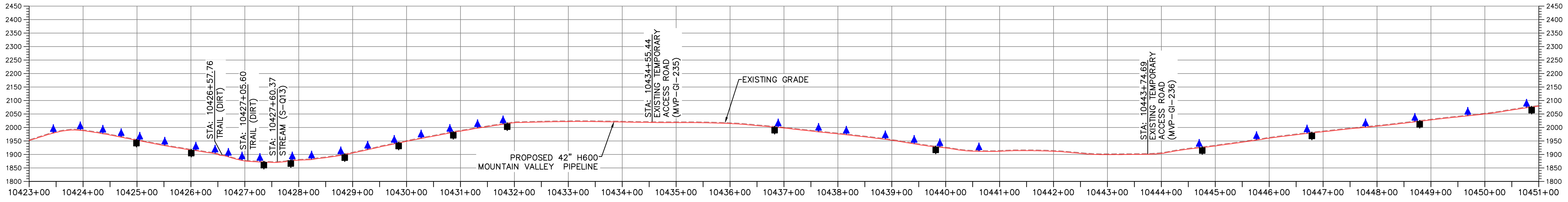


DRAWN BY: JUZ  
 CHECKED BY: RE  
 APPROVED BY: TD

DATE: 12/07/2022  
 SCALE: AS SHOWN  
 SHEET NO. 12.08PC OF 12.33PC



PLAN  
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'  
VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- PROPOSED SUPER SILT FENCE (SEE NOTE 5)
- APPALACHIAN NATIONAL SCENIC TRAIL
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- EXISTING ROAD/TRAIL
- ORANGE CONSTRUCTION SAFETY FENCE
- EXISTING PROPERTY LINE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- EXISTING STATE LINE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- EXISTING COUNTY LINE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- POND
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- WETLAND
- CLEAN WATER DIVERSION PIPE
- ACID FORMING MATERIAL
- EXISTING FOREST
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-31-23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
3. CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.
4. SLOPES OF 30° OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBER MATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/31/23	JUZ	DCW	ADDRESS VAREQ COMMENTS
2	12/07/22	MJP	RE	UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23
3	01/29/19	JWK	RE	ADD MODIFICATION - HP 1965 (MVP-23 SITE AND ACCESS ROAD MVP-AR-23)
4	03/16/18	KAL	RE	ADDRESS VAREQ COMMENTS
5	02/26/18	KAL	RE	ADDRESS VAREQ COMMENTS
6	02/22/18	KAL	RE	ADDRESS VAREQ COMMENTS

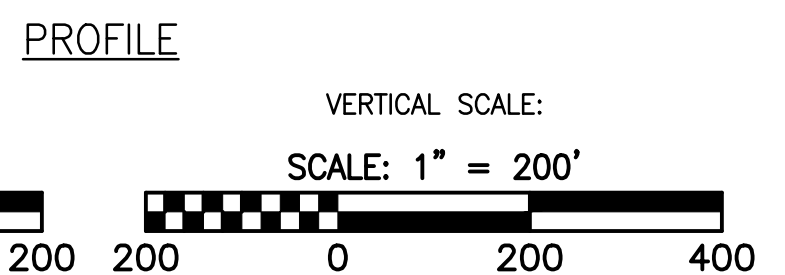
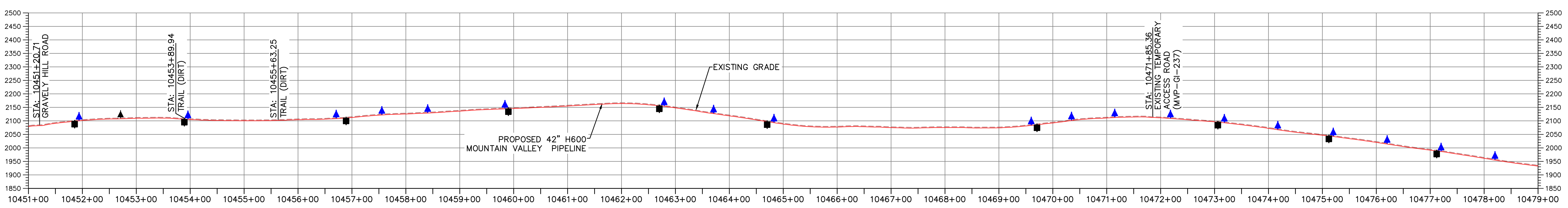
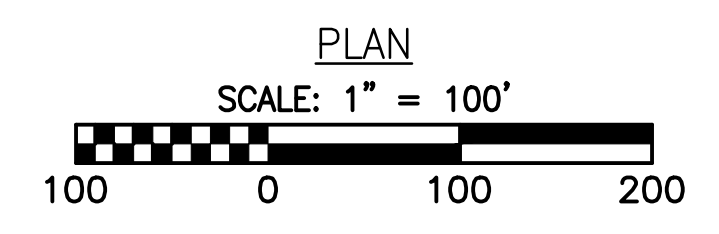
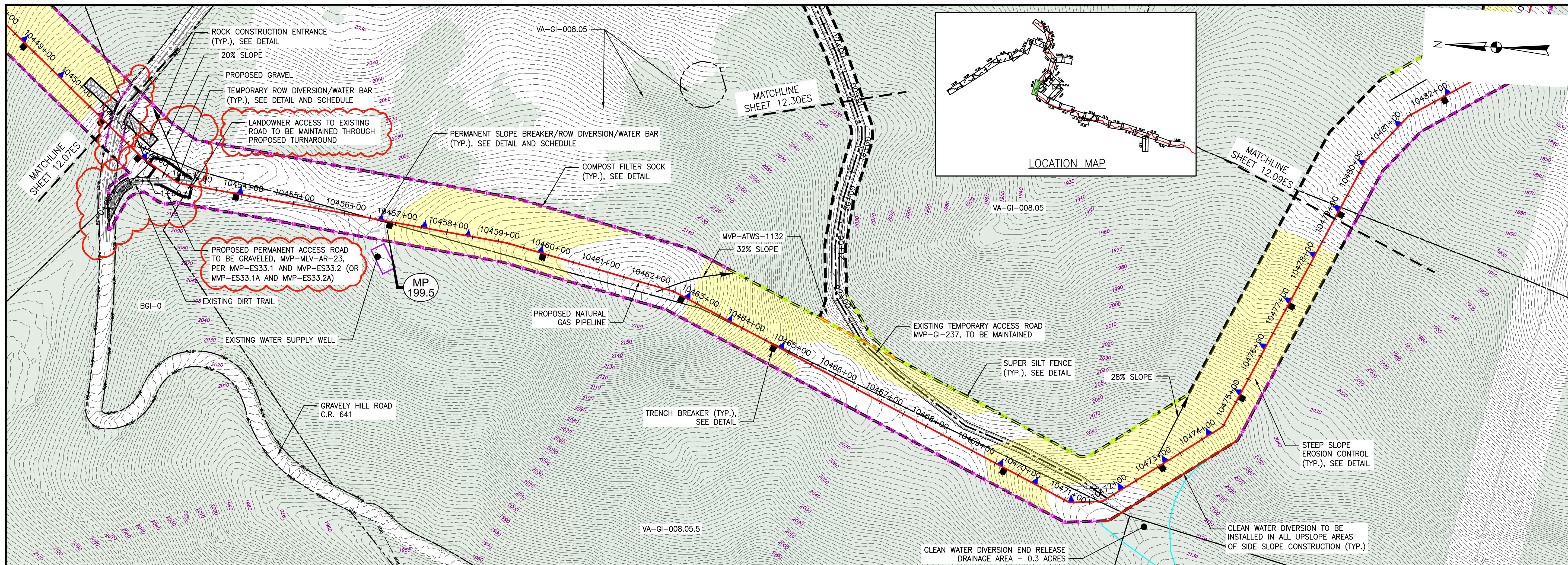
Mountain Valley Pipeline  
EROSION AND SEDIMENT CONTROL PLANS  
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE  
SPREAD 8 - GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
2200 ENERGY DRIVE  
CANONSBURG, PA 15311

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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA  
DANIEL C. WITT  
Lic. No. 65093  
PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/31/2023
SCALE:	AS SHOWN
SHT. NO. 12.07ES OF 12.34ES	REVISION



**LEGEND**

--- PROPOSED LIMIT OF DISTURBANCE	--- PROPOSED ACCESS ROAD CENTERLINE
--- STREAM	--- PROPOSED PIPELINE
--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS	--- PROPOSED SILT FENCE (SEE NOTE 5)
--- APPALACHIAN NATIONAL SCENIC TRAIL	--- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
--- EXISTING ROAD/TRAIL	--- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
--- EXISTING PROPERTY LINE	--- ORANGE CONSTRUCTION SAFETY FENCE
--- EXISTING STATE LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- EXISTING COUNTY LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- POND	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- WETLAND	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
--- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

--- STREAM FLOW DIRECTION	--- FEMA 100 YEAR FLOODPLAIN
--- DRAINAGE AREA BOUNDARY	--- TIMBER MAT (SEE DETAIL MVP-ES37)
--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)	--- STEEP SLOPE AREAS (SEE NOTE 4)
--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)	--- PROPOSED ROCK CONSTRUCTION ENTRANCE
--- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)	--- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-31-23

- NOTES:**
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  - WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
  - DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
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ADDRESS BAFFLE SPACING FOR RELOCATION OF MLV-23		ADDRESS VADQC COMMENTS		ADDRESS VADQC COMMENTS		ADDRESS VADQC COMMENTS	
DATE	BY	DATE	BY	DATE	BY	DATE	BY
07/31/23	JUZ	01/29/19	KAL	02/26/18	KAL	02/22/18	KAL
12/07/22	MJP	03/16/18	KAL	02/26/18	KAL	02/22/18	KAL
01/29/19	JWK	03/16/18	KAL	02/26/18	KAL	02/22/18	KAL
03/16/18	KAL	03/16/18	KAL	02/26/18	KAL	02/22/18	KAL
02/26/18	KAL	02/26/18	KAL	02/26/18	KAL	02/22/18	KAL
02/22/18	KAL	02/22/18	KAL	02/22/18	KAL	02/22/18	KAL

**EROSION AND SEDIMENT CONTROL PLANS**  
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE  
SPREAD 8 - GILES COUNTY, VIRGINIA

**REVISIONS:**

NO.	DATE	BY	DESCRIPTION
1	07/31/23	JUZ	UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23
2	12/07/22	MJP	FILE MODIFICATION - MP 199.5 (MP-23 SITE AND ACCESS ROAD MVP-MLV-AR-23)
3	01/29/19	JWK	ADDRESS VADQC COMMENTS
4	03/16/18	KAL	ADDRESS VADQC COMMENTS
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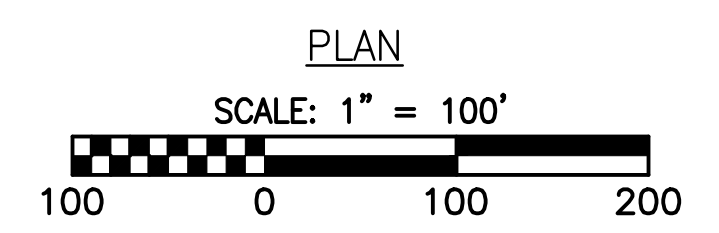
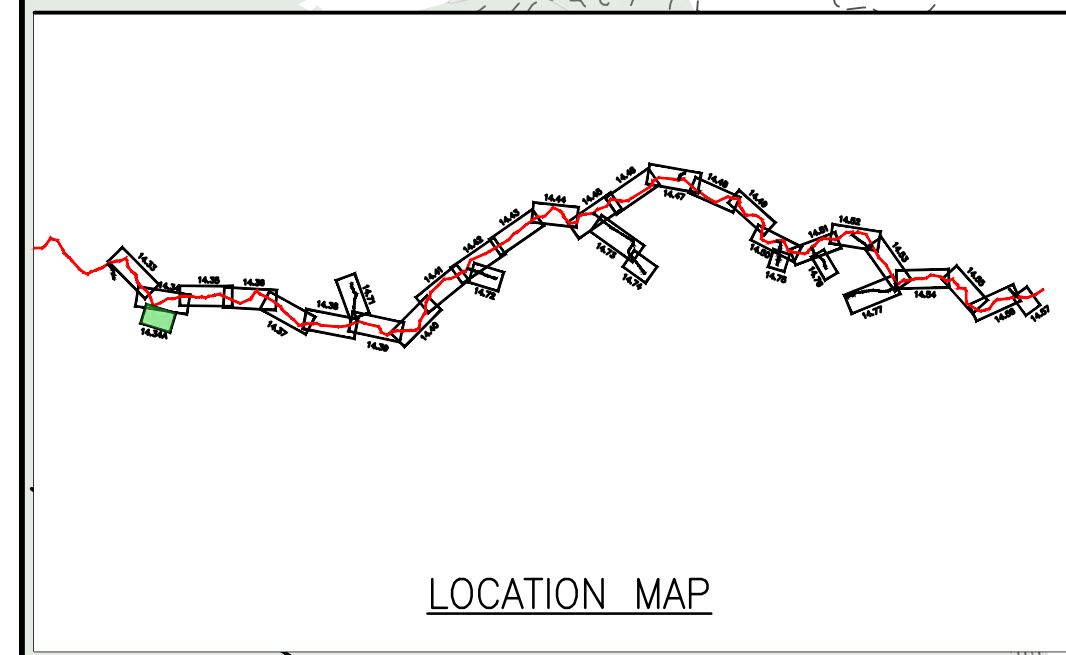
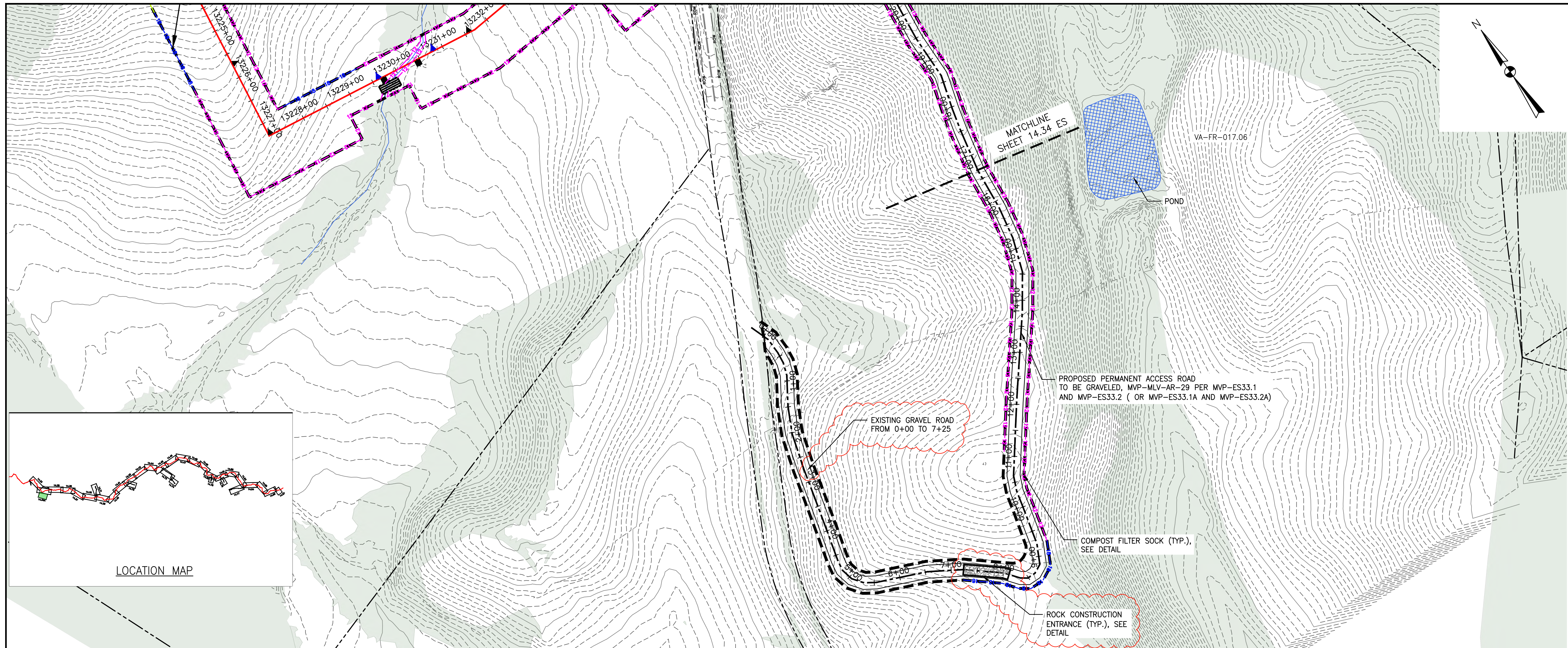
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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EROSION AND SEDIMENT CONTROL PLANS**



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/31/2023
SCALE:	AS SHOWN
SHT. NO. 12.08ES OF 12.34ES	REVISION



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-28-23

LEGEND

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>--- PROPOSED LIMIT OF DISTURBANCE</li> <li>--- STREAM</li> <li>--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS</li> <li>--- APPALACHIAN NATIONAL SCENIC TRAIL</li> <li>--- EXISTING ROAD/TRAIL</li> <li>--- EXISTING PROPERTY LINE</li> <li>--- EXISTING STATE LINE</li> <li>--- EXISTING COUNTY LINE</li> <li>--- POND</li> <li>--- WETLAND</li> <li>--- AFM --- ACID FORMING MATERIAL</li> <li>--- EXISTING FOREST</li> </ul> | <ul style="list-style-type: none"> <li>--- PROPOSED ACCESS ROAD CENTERLINE</li> <li>--- PROPOSED PIPELINE</li> <li>--- PROPOSED SILT FENCE (SEE NOTE 5)</li> <li>--- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)</li> <li>--- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)</li> <li>--- ORANGE CONSTRUCTION SAFETY FENCE</li> <li>--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)</li> <li>--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)</li> <li>--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)</li> <li>--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)</li> <li>--- CLEAN WATER DIVERSION PIPE</li> <li>--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)</li> </ul> | <ul style="list-style-type: none"> <li>--- STREAM FLOW DIRECTION</li> <li>--- FEMA 100 YEAR FLOODPLAIN</li> <li>--- DRAINAGE AREA BOUNDARY</li> <li>--- TIMBER MAT (SEE DETAIL MVP-ES37)</li> <li>--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)</li> <li>--- STEEP SLOPE AREAS (SEE NOTE 4)</li> <li>--- PROPOSED ROCK CONSTRUCTION ENTRANCE</li> <li>--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)</li> <li>--- TEMPORARY ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17)</li> <li>--- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17)</li> </ul> |
|--|--|---|

NOTES:

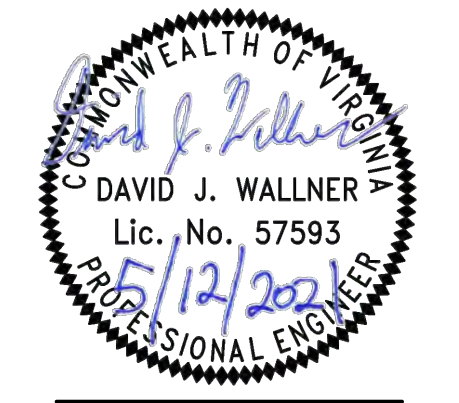
1. TOPSOIL SEGREGATION WILL BE PERFORMED IN ALL IMMEDIATE CONSTRUCTION AREAS OF THE PROJECT IN ACCORDANCE WITH DETAILS MVP-ES46.1 THROUGH MVP-ES46.3.
2. FLEXITERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
3. CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.
4. SLOPES OF 30' OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION
-	07/28/23	JUZ	IHH	DCW	ADDRESS DED COMMENTS
-	05/30/22	JUZ	RE	TD	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITAL
-	06/04/21	JUZ	RE	DW	FIELD MODIFICATION - MV-29 RELOCATED TO APPROX. MP 252.1

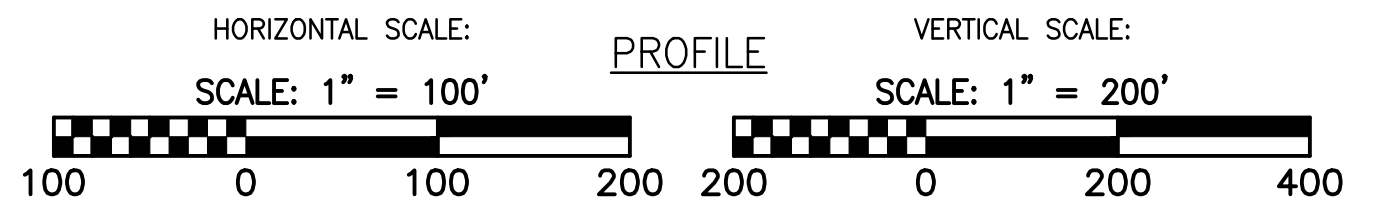
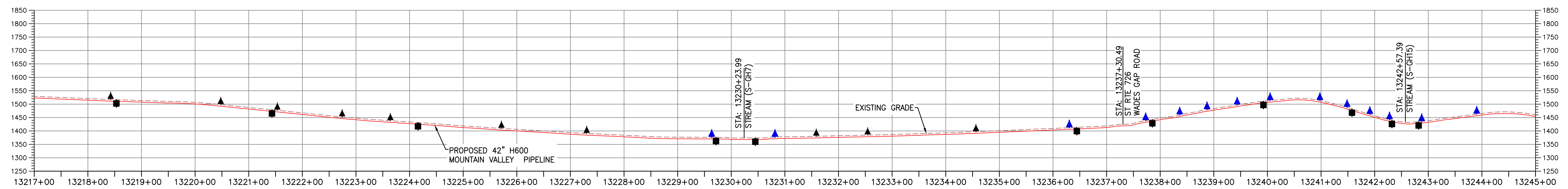
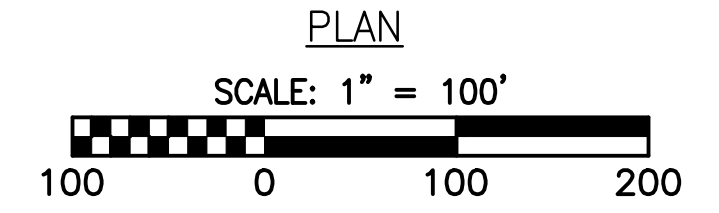
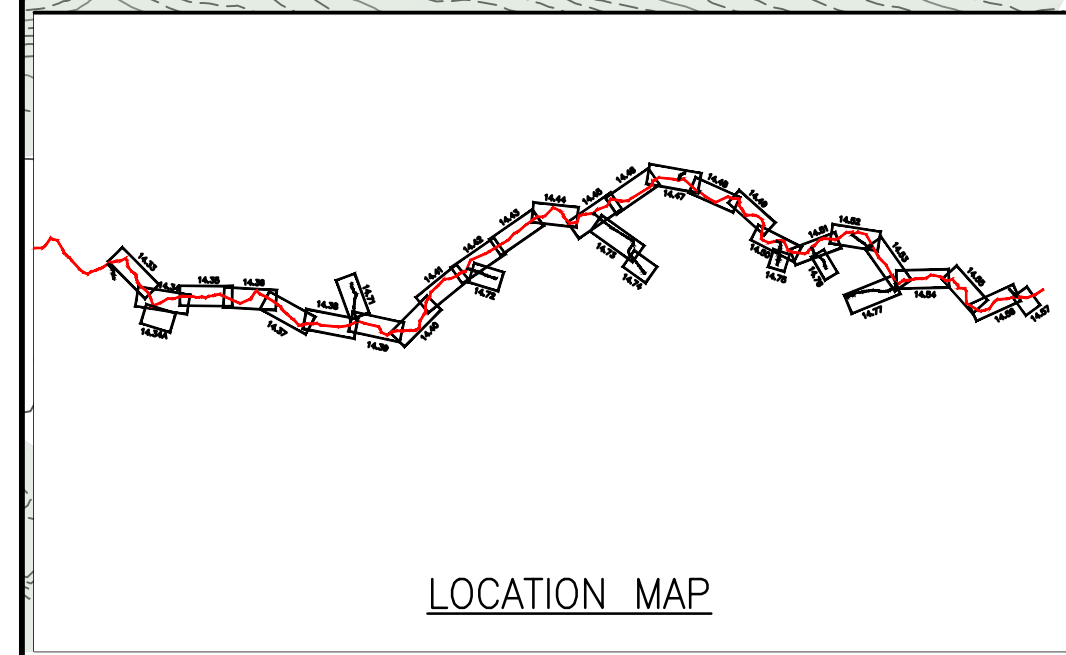
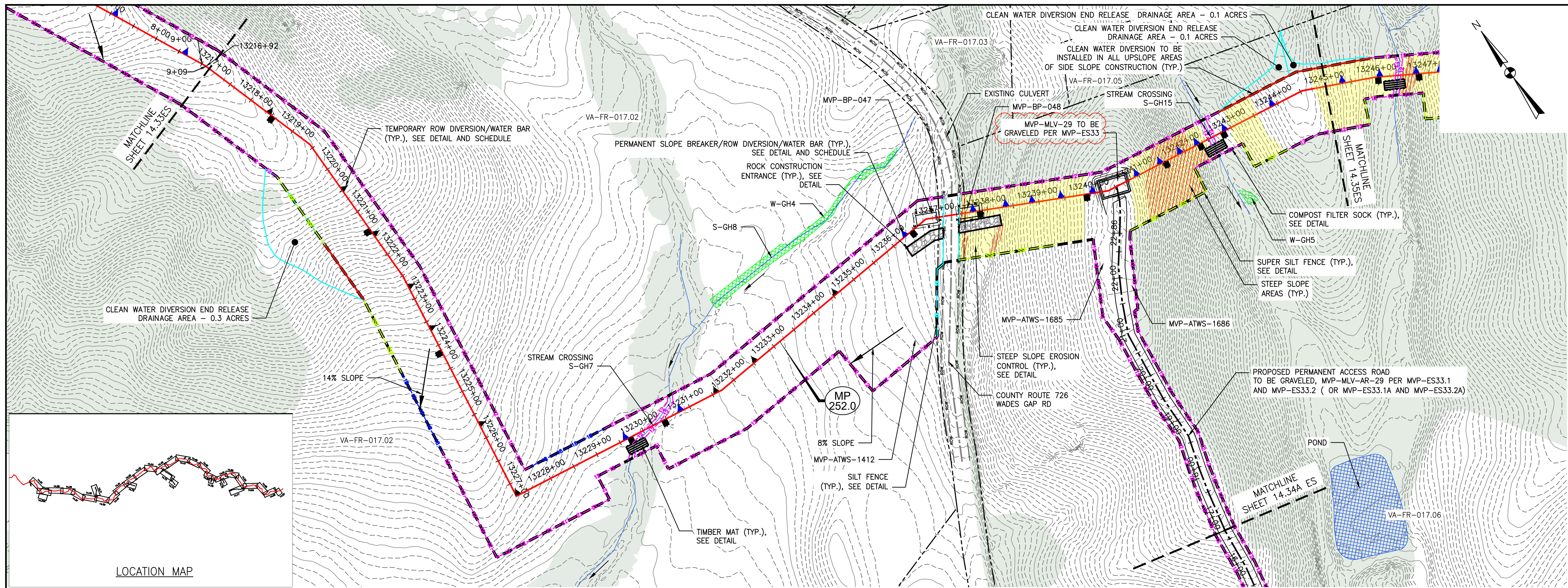
Mountain Valley Pipeline  
**EROSION AND SEDIMENT CONTROL PLANS**  
**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**  
 SPREAD 10 - FRANKLIN COUNTY, VIRGINIA  
**MOUNTAIN VALLEY PIPELINE, LLC**  
 2200 ENERGY DRIVE  
 CANONSBURG, PA 15317

**TETRA TECH**  
 complex world | CLEAR SOLUTIONS™  
 661 ANDERSEN DRIVE  
 FOSTER PLAZA 7  
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/28/2023
SCALE:	AS SHOWN
SHT. NO. 14.34ES OF	14.81ES



**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- PROPOSED SILT FENCE (SEE NOTE 5)
- APPALACHIAN NATIONAL SCENIC TRAIL
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- EXISTING ROAD/TRAIL
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- EXISTING PROPERTY LINE
- ORANGE CONSTRUCTION SAFETY FENCE
- EXISTING STATE LINE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- EXISTING COUNTY LINE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- POND
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- WETLAND
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- ACID FORMING MATERIAL
- CLEAN WATER DIVERSION PIPE
- EXISTING FOREST
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
- TEMPORARY ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17)

**NOTES:**

1. TOPSOIL SEGREGATION WILL BE PERFORMED IN ALL IMMEDIATE CONSTRUCTION AREAS OF THE PROJECT IN ACCORDANCE WITH DETAILS MVP-ES46.1 THROUGH MVP-ES46.3.
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8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	03/30/22	JUZ	RE	FIELD MODIFICATION - MVP-29 RECORDED TO APPROX. MP 252.1
2	06/04/21	JUZ	RE	ADDRESS VADO COMMENTS
3	03/04/18	KAL	RE	ADDRESS VADO COMMENTS
4	02/27/18	KAL	RE	ADDRESS VADO COMMENTS
5	02/05/18	KAL	RE	ADDRESS VADO COMMENTS
6	11/21/17	KAL	RE	ADDRESS VADO COMMENTS

**Mountain Valley Pipeline**

**EROSION AND SEDIMENT CONTROL PLANS**

**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**

SPREAD 10 - FRANKLIN COUNTY, VIRGINIA

**MOUNTAIN VALLEY PIPELINE, LLC**

2200 ENERGY DRIVE  
CANONSBURG, PA 15317

**TETRA TECH**

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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

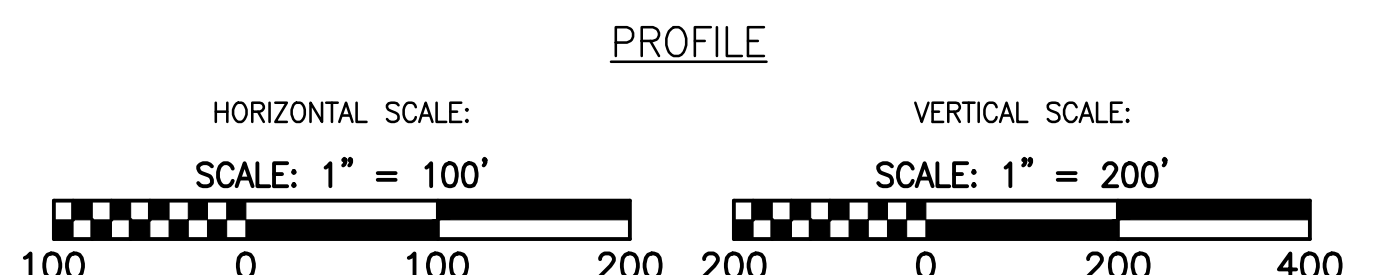
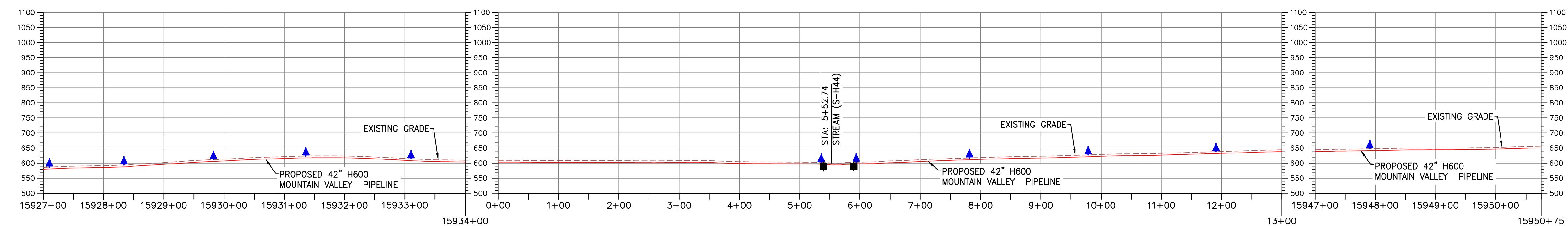
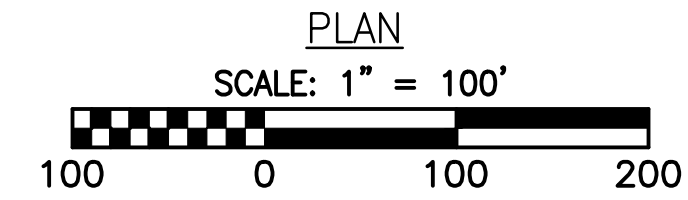
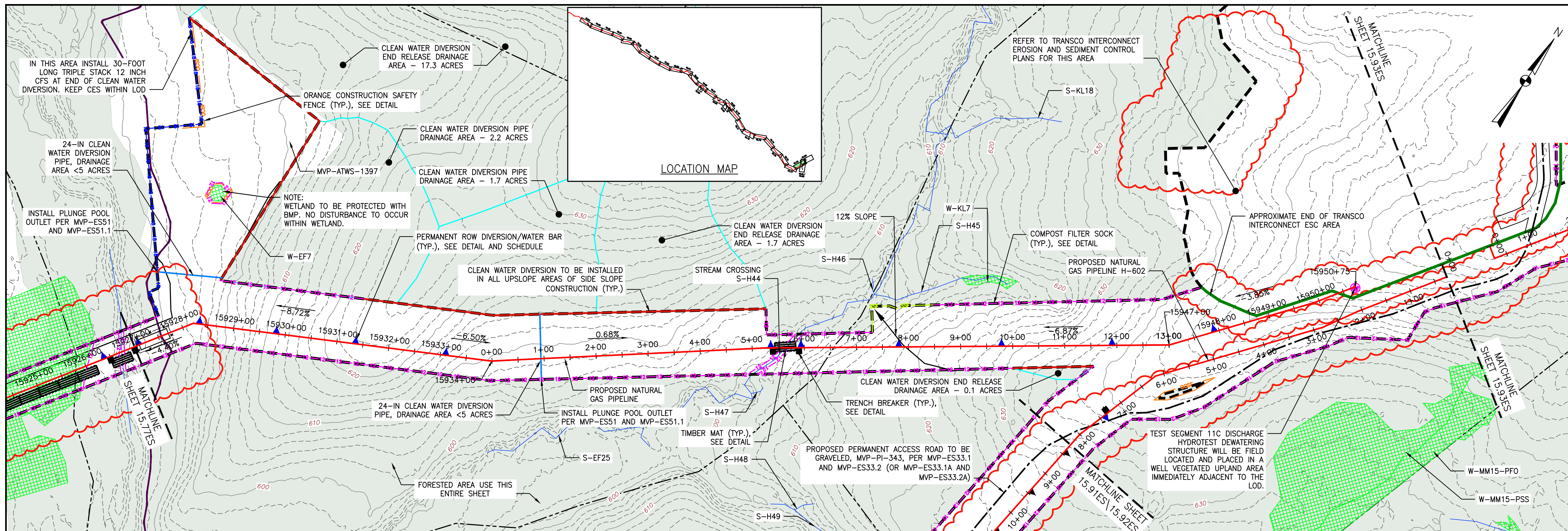
**EROSION AND SEDIMENT CONTROL PLANS**

COMMONWEALTH OF VIRGINIA

DAVID J. WALLNER  
Lic. No. 57593  
4/2022  
PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	03/30/2022
SCALE:	AS SHOWN
SHT. NO. 14.34ES	OF 14.81ES





**LEGEND**

--- PROPOSED LIMIT OF DISTURBANCE	--- PROPOSED ACCESS ROAD CENTERLINE
--- STREAM	--- PROPOSED PIPELINE
--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS	--- PROPOSED SILT FENCE (SEE NOTE 5)
--- APPALACHIAN NATIONAL SCENIC TRAIL	--- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
--- EXISTING ROAD/TRAIL	--- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
--- EXISTING PROPERTY LINE	--- ORANGE CONSTRUCTION SAFETY FENCE
--- EXISTING STATE LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- EXISTING COUNTY LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- POND	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- WETLAND	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
--- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

--- STREAM FLOW DIRECTION	--- FEMA 100 YEAR FLOODPLAIN
--- DRAINAGE AREA BOUNDARY	--- TIMBER MAT (SEE DETAIL MVP-ES37)
--- TRENCH BREAKER (TYP., SEE DETAIL)	--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)	--- STEEP SLOPE AREAS (SEE NOTE 4)
--- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)	--- PROPOSED ROCK CONSTRUCTION ENTRANCE
--- PERMANENT ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)	---

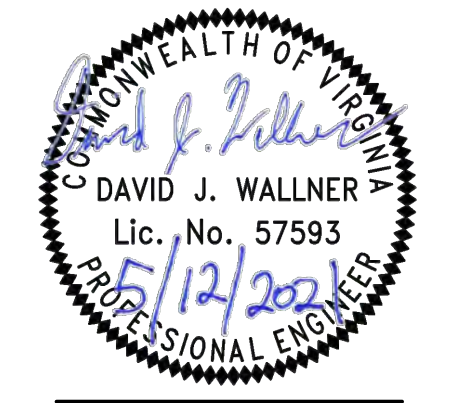
- NOTES:**
- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
  - FLEXTERA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
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  - WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
  - DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
  - TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
  - ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	05/04/22	JZ	RE	UPDATED MVP-PI-343 ALIGNMENT AND TRANSCO LOD
6	05/04/22	JZ	RE	UPDATED TO REFLECT FINAL LOD FOR APPROVED TRANSCO INTERCONNECT SITE

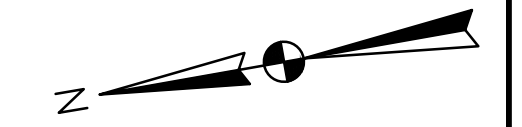
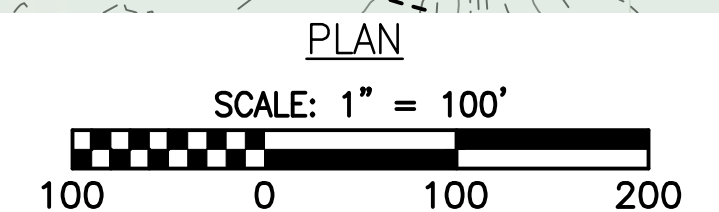
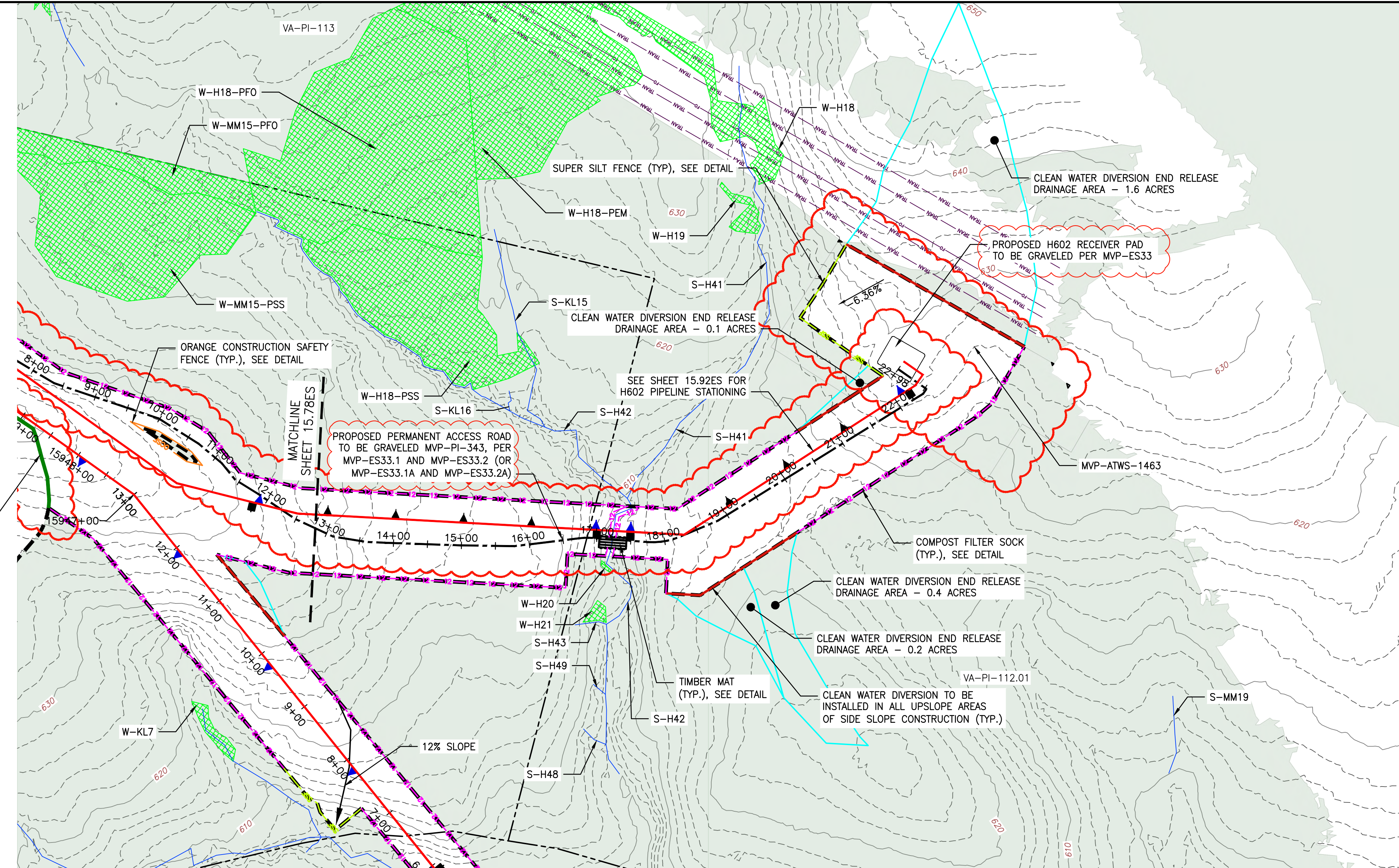
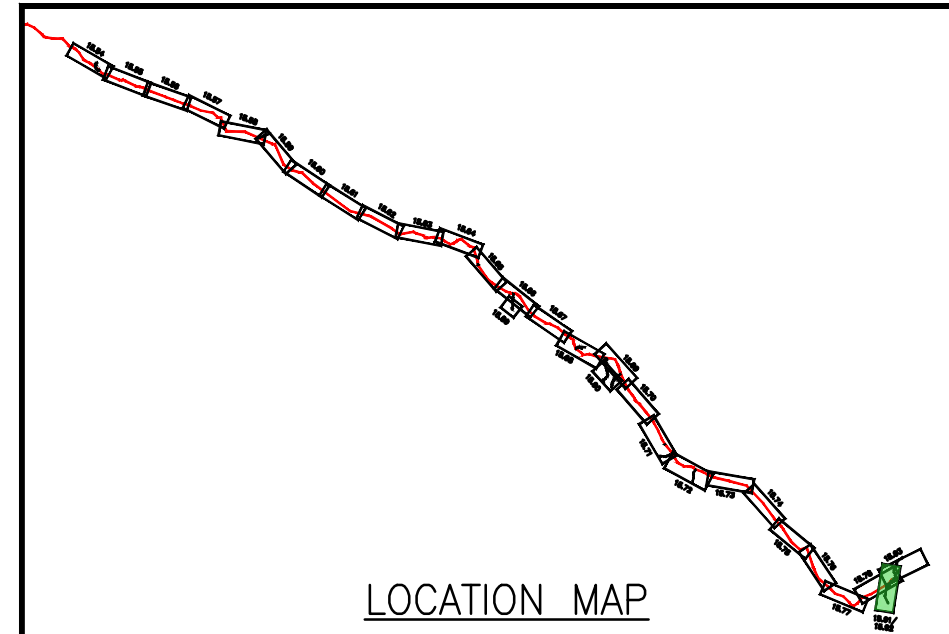
Mountain Valley Pipeline  
**EROSION AND SEDIMENT CONTROL PLANS**  
**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**  
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA  
**MOUNTAIN VALLEY PIPELINE, LLC**  
 2200 ENERGY DRIVE  
 CANONSBURG, PA 15317

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 FOSTER PLAZA 7  
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS



DRAWN BY:	JZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	05/04/2022
SCALE:	AS SHOWN
SHT. NO. 15.78ES OF	15.99ES

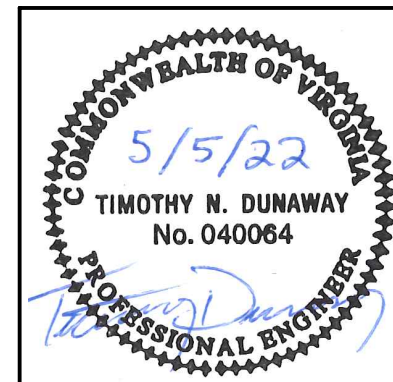


**LEGEND**

--- PROPOSED LIMIT OF DISTURBANCE	--- PROPOSED ACCESS ROAD CENTERLINE
--- STREAM	--- PROPOSED PIPELINE
--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS	--- PROPOSED SILT FENCE (SEE NOTE 5)
--- APPALACHIAN NATIONAL SCENIC TRAIL	--- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
--- EXISTING ROAD/TRAIL	--- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
--- EXISTING PROPERTY LINE	--- OCSF ORANGE CONSTRUCTION SAFETY FENCE
--- EXISTING STATE LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- EXISTING COUNTY LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- POND	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- WETLAND	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
--- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

--- STREAM FLOW DIRECTION
--- FEMA 100 YEAR FLOODPLAIN
--- DRAINAGE AREA BOUNDARY
--- TIMBER MAT (SEE DETAIL MVP-ES37)
--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
--- STEEP SLOPE AREAS (SEE NOTE 4)
--- PROPOSED ROCK CONSTRUCTION ENTRANCE
--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
--- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
--- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

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  - ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.



THIS SEAL APPLIES ONLY TO REVISIONS DATED 05-05-22

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	05/05/22	JUZ	RE	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
2	08/22/19	JMK	RE	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
3	04/18/19	JMK	RE	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
4	01/21/19	JMK	RE	FIELD MODIFICATION # 303 (WATER REGIONS SEE AND ACCESS AND MP-PI-343)
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
6	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS

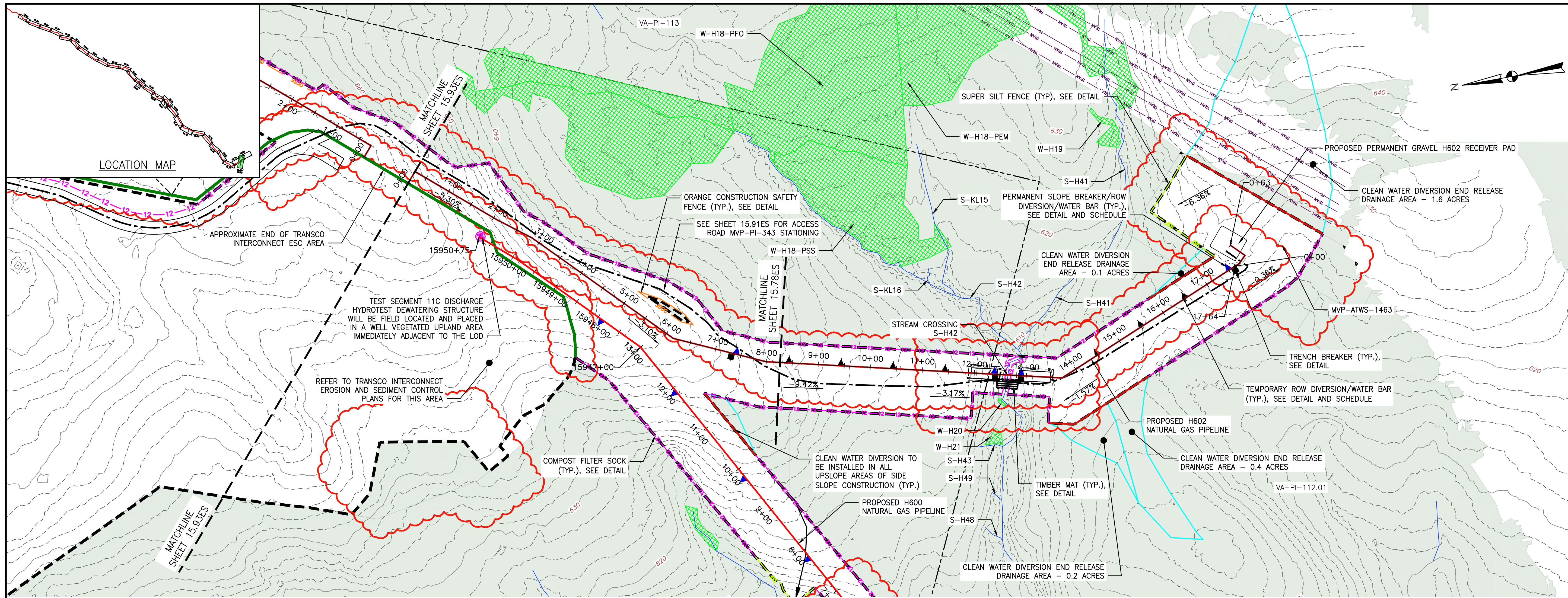
**Mountain Valley Pipeline**  
**EROSION AND SEDIMENT CONTROL PLANS**  
**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**  
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**EROSION AND SEDIMENT CONTROL PLANS**

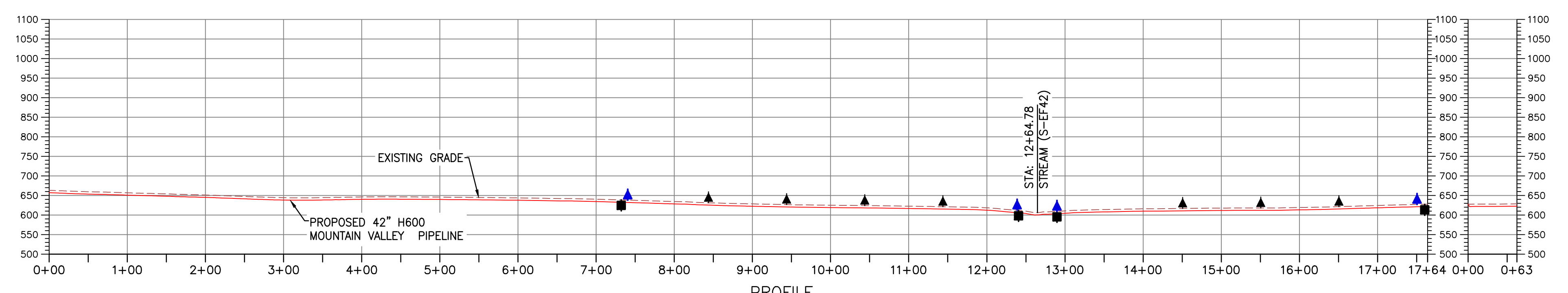
**COMMONWEALTH OF VIRGINIA**  
 DAVID J. WALLNER  
 Lic. No. 57593  
 5/12/2022  
 PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	05/05/2022
SCALE:	AS SHOWN
SHT. NO. 15.91ES OF	15.99ES



PLAN

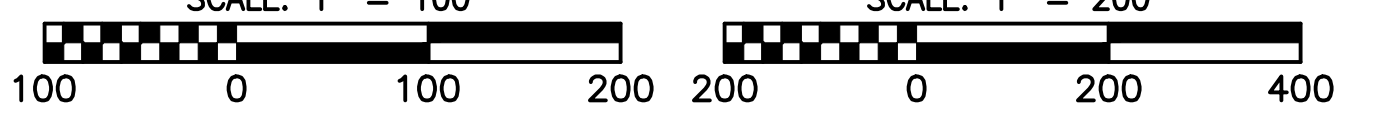
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- PROPOSED SILT FENCE (SEE NOTE 5)
- APPALACHIAN NATIONAL SCENIC TRAIL
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- EXISTING ROAD/TRAIL
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
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NOTES:

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6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSINGS OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

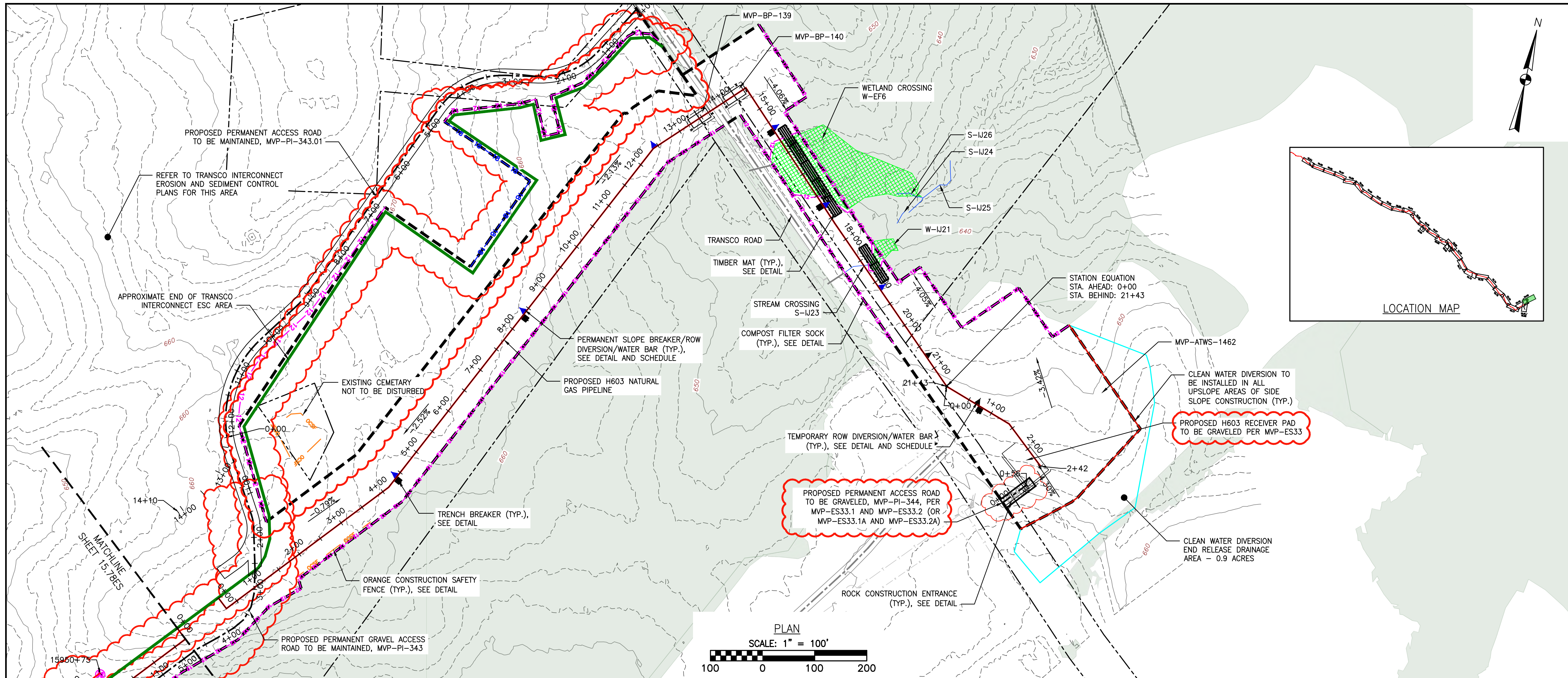
NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/28/23	JJK	JJK	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
2	05/05/22	JJK	JJK	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
3	04/18/19	JJK	JJK	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
4	01/21/19	JJK	JJK	FIELD MODIFICATION-UP 30.3 (WRC RECEIVER SITE AND ACCESS ROAD (MVP-PI-34))
5	03/16/18	KAL	JJK	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline  
**EROSION AND SEDIMENT CONTROL PLANS**  
**MOUNTAIN VALLEY PIPELINE PROJECT - H602 LINE**  
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA  
**MOUNTAIN VALLEY PIPELINE, LLC**  
 2200 ENERGY DRIVE  
 CANONSBURG, PA 15317

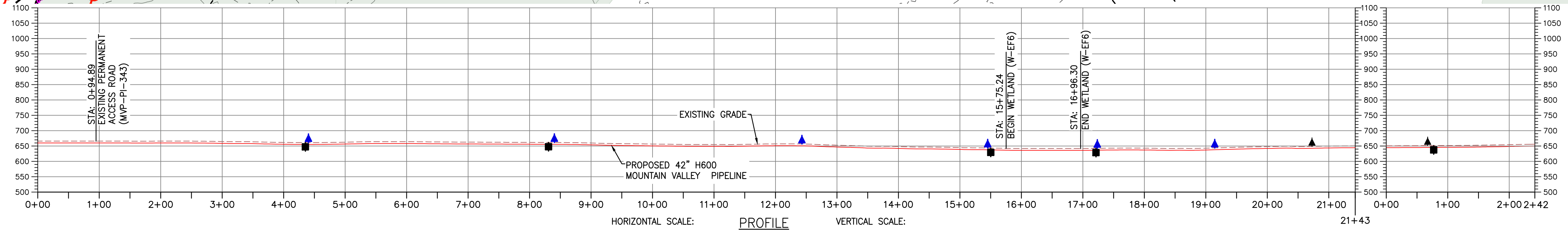
**TETRA TECH**  
 complex world | CLEAR SOLUTIONS™  
 661 ANDERSEN DRIVE  
 FOSTER PLAZA 7  
 PITTSBURGH, PA 15220

COMMONWEALTH OF VIRGINIA  
 8/14/23  
 DANIEL C. WITT  
 Lic. No. 65093  
 PROFESSIONAL ENGINEER  
 THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-28-23

COMMONWEALTH OF VIRGINIA  
 David J. Wallner  
 Lic. No. 57593  
 PROFESSIONAL ENGINEER  
 DATE: 07/28/2023  
 SCALE: AS SHOWN  
 SHT. NO. 15.92ES OF 15.99ES



PLAN  
SCALE: 1" = 100'



PROFILE  
HORIZONTAL SCALE: 1" = 100'  
VERTICAL SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM --- ACID FORMING MATERIAL
- EXISTING FOREST
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- ORANGE CONSTRUCTION SAFETY FENCE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-28-23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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6	03/16/18	KAL	IHH	JW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline  
EROSION AND SEDIMENT CONTROL PLANS  
MOUNTAIN VALLEY PIPELINE PROJECT H603 LINE  
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
2200 ENERGY DRIVE  
CANONSBURG, PA 15317

TETRA TECH  
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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA  
DAVID J. WALLNER  
Lic. No. 57593  
8/12/2023  
PROFESSIONAL ENGINEER

DRAWN BY:	JW
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/28/2023
SCALE:	AS SHOWN
SHT. NO. 15.93ES OF 15.99ES	