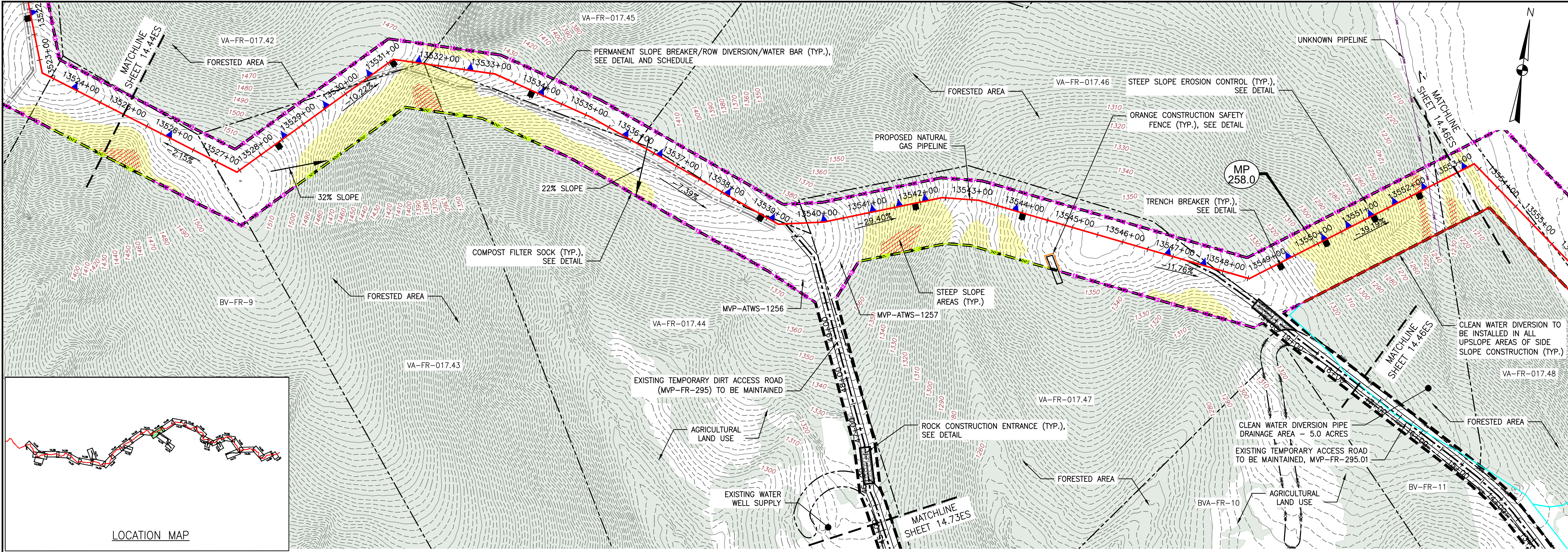


- LEGEND**
- | | |
|---|--|
| --- PROPOSED LIMIT OF DISTURBANCE | --- PROPOSED ACCESS ROAD CENTERLINE |
| --- STREAM | --- PROPOSED PIPELINE |
| --- USDA FOREST SERVICE (NATIONAL FOREST) LANDS | --- PROPOSED SILT FENCE (SEE NOTE 5) |
| --- APPALACHIAN NATIONAL SCENIC TRAIL | --- PROPOSED SUPER SILT FENCE (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-ES39) |
| --- 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) |

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 2. FLEXITERA, 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.

ADDRESS VADO COMMENTS TO FIELD MODIFICATION SUBMITAL		FIELD MODIFICATION		ADDRESS VADO COMMENTS		ADDRESS VADO COMMENTS		ADDRESS VADO COMMENTS		REVISIONS:	
NO.	DATE	CHD.	APPD.	NO.	DATE	CHD.	APPD.	NO.	DATE	CHD.	APPD.
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7	06/22/18	RE	DW	6	03/16/18	RE	DW	5	03/04/18	RE	DW
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4	02/27/18	RE	DW	3	02/05/18	RE	DW	2	01/24/18	RE	DW
3	02/05/18	RE	DW	2	01/24/18	RE	DW	1	01/11/18	RE	DW

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

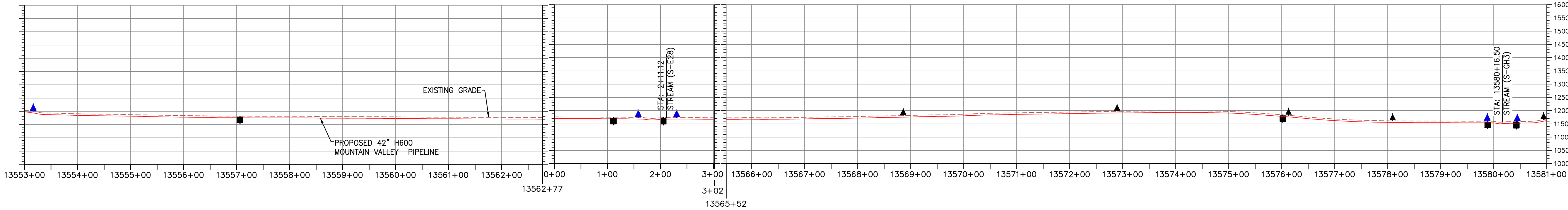
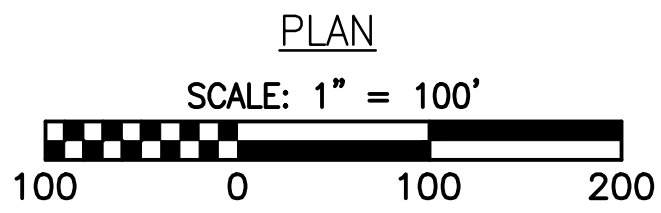
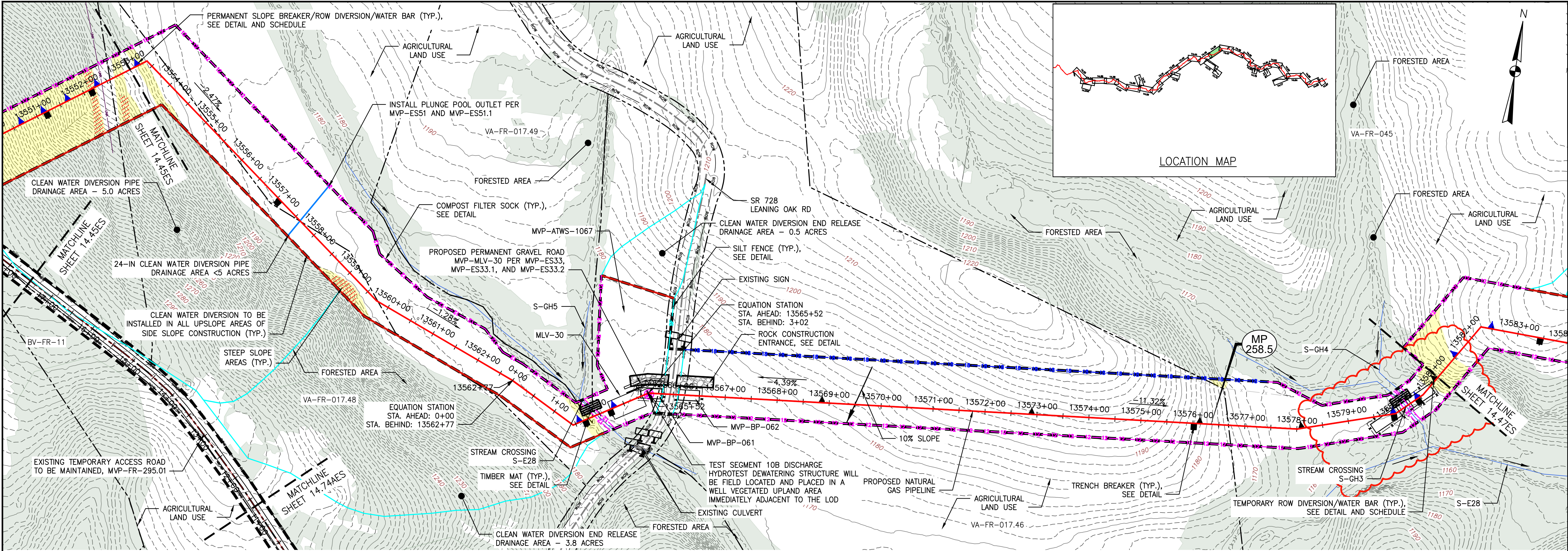
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER

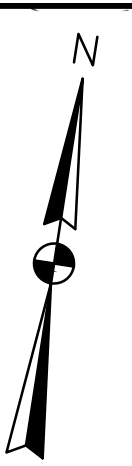
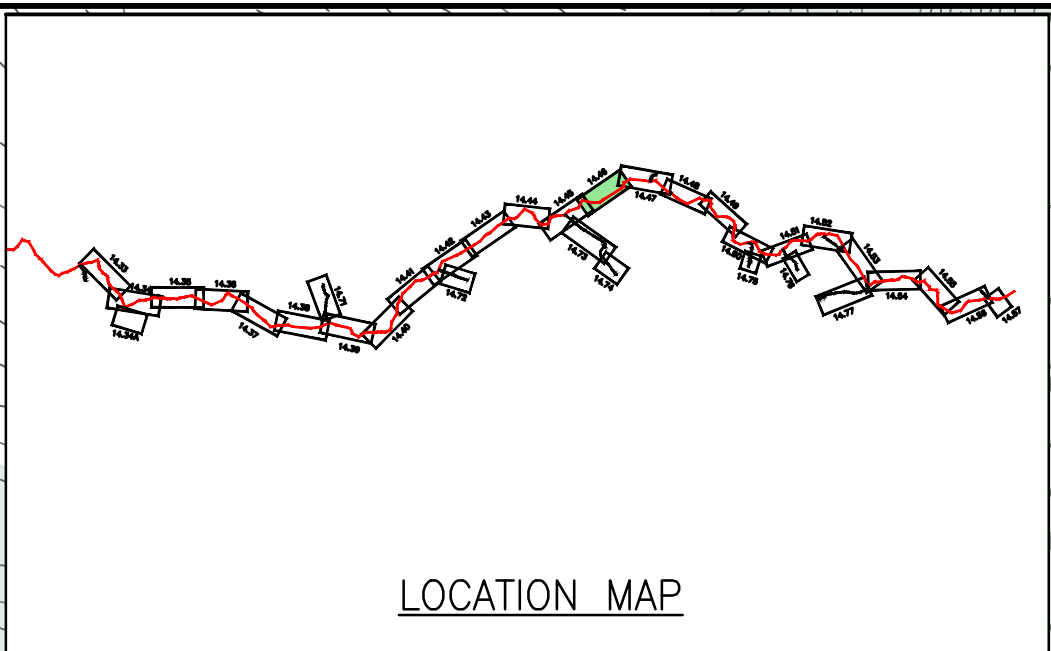
DRAWN BY: JUZ
CHECKED BY: RE
APPROVED BY: DW
DATE: 12/06/2018
SCALE: AS SHOWN
SHT. NO. 14.45ES OF 14.81ES



LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none">PROPOSED LIMIT OF DISTURBANCESTREAMUSDA FOREST SERVICE (NATIONAL FOREST) LANDSAPPALACHIAN NATIONAL SCENIC TRAILEXISTING ROAD/TRAILEXISTING PROPERTY LINEEXISTING STATE LINEEXISTING COUNTY LINEPONDWETLANDACID FORMING MATERIALEXISTING FOREST | <ul style="list-style-type: none">PROPOSED ACCESS ROAD CENTERLINEPROPOSED PIPELINEPROPOSED 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 FENCEPROPOSED 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 PIPECLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51) |
| | <ul style="list-style-type: none">STREAM FLOW DIRECTIONFEMA 100 YEAR FLOODPLAINDRAINAGE AREA BOUNDARYTIMBER MAT (SEE DETAIL MVP-ES37)STEEP SLOPE EROSION CONTROL (SEE NOTE 2)STEEP SLOPE AREAS (SEE NOTE 4)PROPOSED ROCK CONSTRUCTION ENTRANCEPROPOSED 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) |

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ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL		FIELD MODIFICATION		ADDRESS VADEQ COMMENTS		ADDRESS VADEQ COMMENTS		ADDRESS VADEQ COMMENTS		DESCRIPTION	
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3	02/05/18	KAL	RE	2	01/25/18	KAL	RE	1	01/11/18	KAL	RE
2	01/25/18	KAL	RE	1	01/11/18	KAL	RE				
1	01/11/18	KAL	RE								

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 10 - FRANKLIN COUNTY, VIRGINIA

REVISIONS:

NO.	DATE	CHD.	APPD.	DESCRIPTION
8	12/06/18	JUZ	RE	
7	06/22/18	JUZ	RE	
6	03/16/18	KAL	RE	
5	03/04/18	KAL	RE	
4	02/27/18	KAL	RE	
3	02/05/18	KAL	RE	
2	01/25/18	KAL	RE	
1	01/11/18	KAL	RE	

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

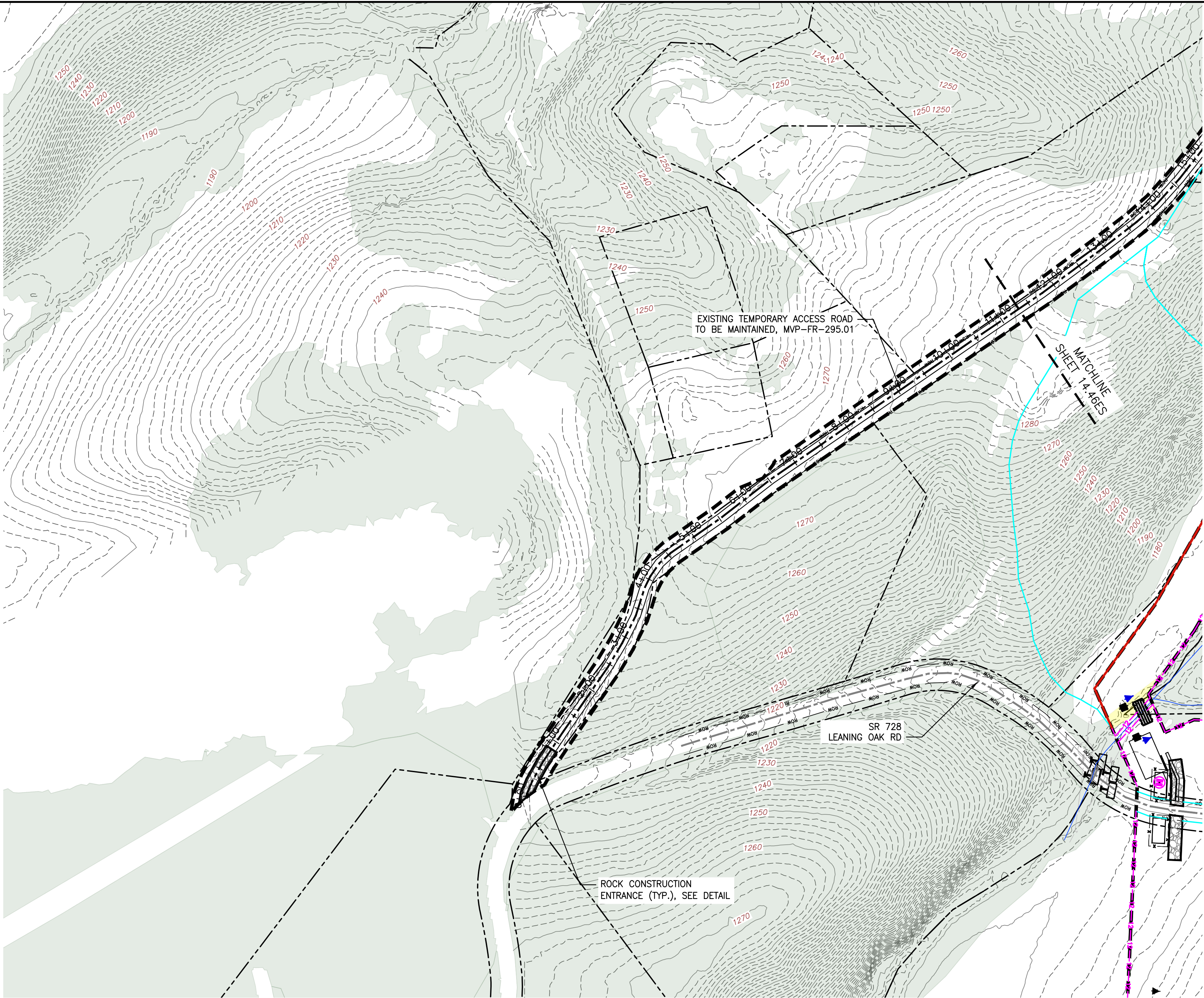
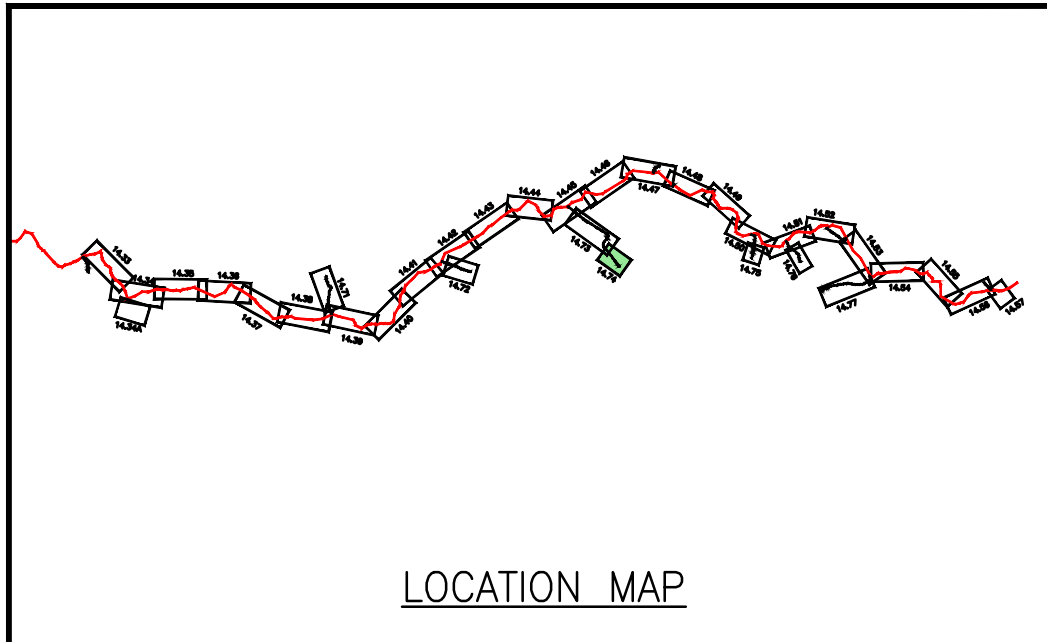
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EROSION AND SEDIMENT CONTROL PLANS

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DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	12/06/2018
SCALE:	AS SHOWN
SHT. NO. 14.46ES OF 14.81ES	

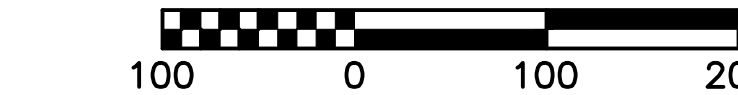


LEGEND

- | | |
|---|--|
| --- PROPOSED LIMIT OF DISTURBANCE | --- PROPOSED ACCESS ROAD CENTERLINE |
| --- STREAM | --- PROPOSED PIPELINE |
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| --- APPALACHIAN NATIONAL SCENIC TRAIL | --- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) |
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| --- EXISTING FOREST | --- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51) |

PLAN

SCALE: 1" = 100'



- | |
|---|
| --- STREAM FLOW DIRECTION |
| --- FEMA 100 YEAR FLOODPLAIN |
| --- DRAINAGE AREA BOUNDARY |
| --- TIMBER MAT (SEE DETAIL MVP-ES37) |
| --- STEEP SLOPE EROSION CONTROL (SEE NOTE 2) |
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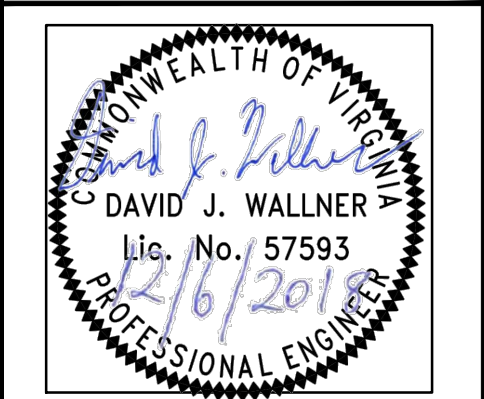
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5	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/05/18	KAL	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS

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	

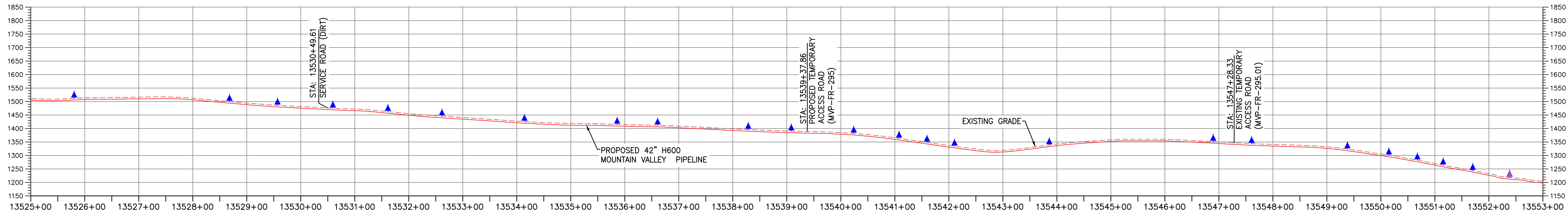
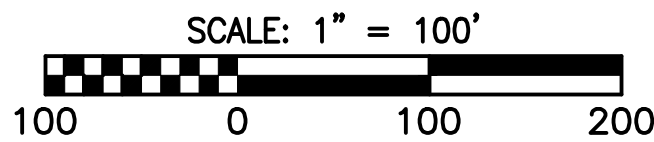
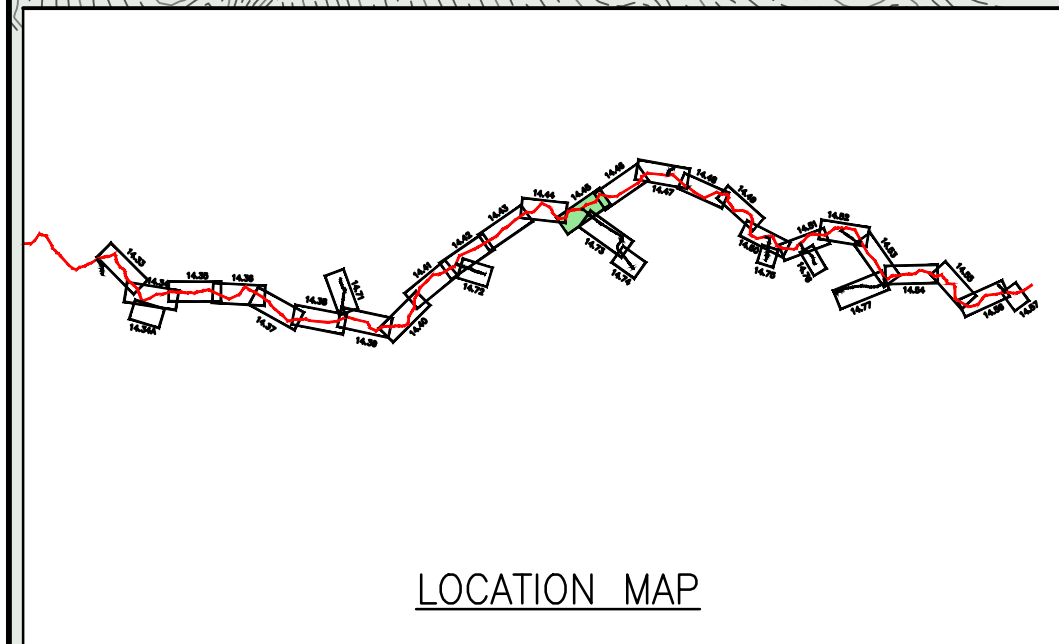
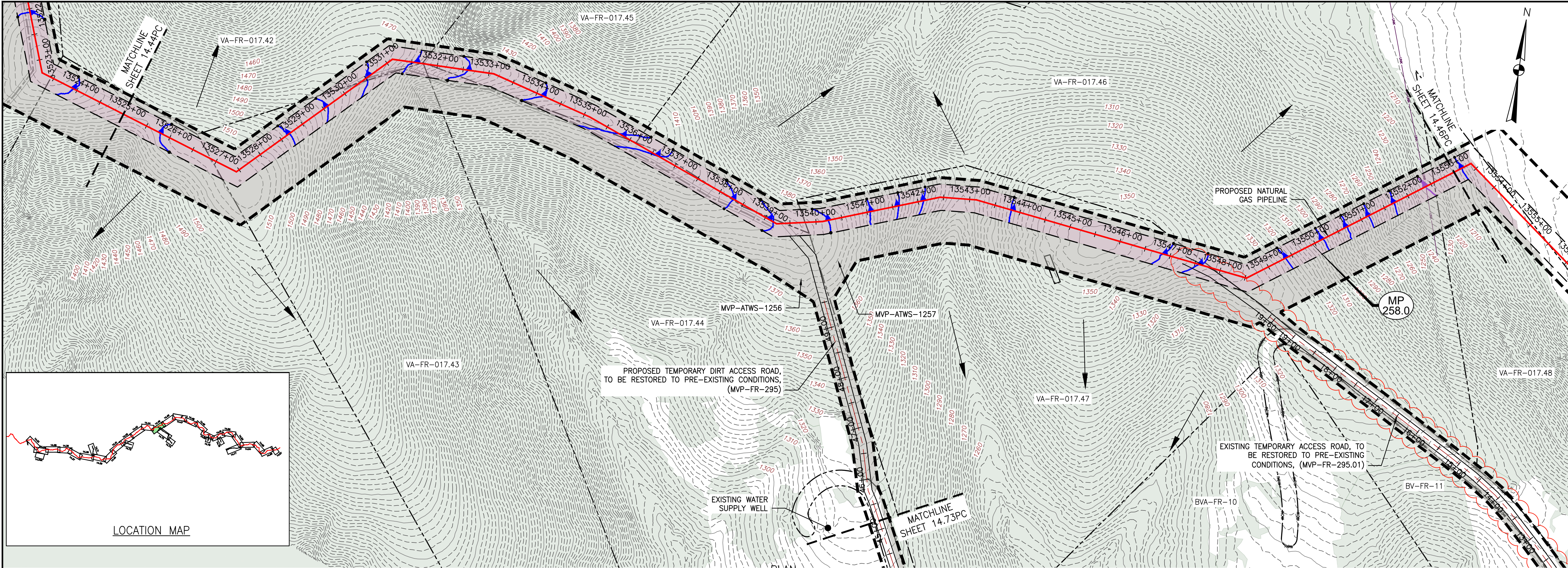
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PITTSBURGH, PA 15220

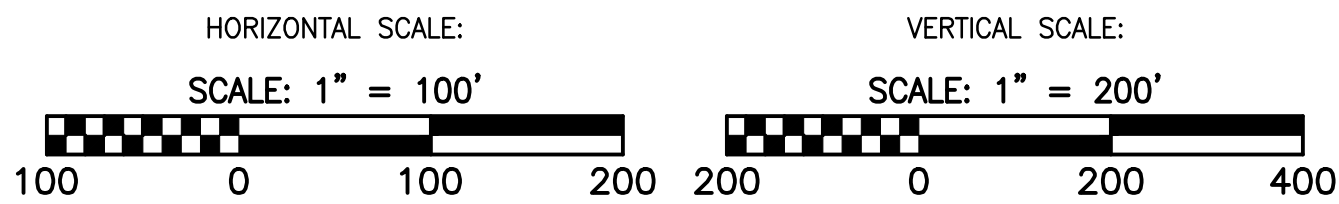
EROSION AND SEDIMENT
CONTROL PLANS



DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	12/06/2018
SCALE:	AS SHOWN
SHT. NO. 14.74AES	OF 14.81ES



PROFILE



LEGEND

- | | | | |
|-------|---|-------|---|
| — | EXISTING CULVERT | —>>>> | PROPOSED LEVEL SPREADER DIVERSION |
| — | STREAM | +++++ | PROPOSED LEVEL SPREADER |
| - - - | EXISTING PROPERTY LINE | - - - | PROPOSED ACCESS ROAD CENTERLINE |
| - - - | EXISTING STATE LINE | - - - | PROPOSED PIPELINE |
| - - - | EXISTING COUNTY LINE | —+—+— | SURFACE WATER FLOW DIRECTION |
| - - - | EXISTING ROAD/TRAIL | — | POND |
| — | USDA FOREST SERVICE (NATIONAL FOREST) LANDS | — | WETLAND |
| — | APPALACHIAN NATIONAL SCENIC TRAIL | — | PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1) |
| — | ACID FORMING MATERIAL | — | APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS) |
| — | GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) | — | |
| - - - | PROPOSED LIMIT OF DISTURBANCE | — | |
| - - - | PROPOSED PERMANENT RIGHT OF WAY | — | |

- | | | | |
|---|---------------------------------------|---|---|
| — | STREAM FLOW DIRECTION | ▨ | STEEP SLOPE AREA |
| — | FEMA 100 YEAR FLOODPLAIN | — | EXISTING FOREST |
| — | PERMANENT WATER BAR 10' END TREATMENT | — | PERMANENT EASEMENT RESTORED TO MEADOW CONDITION |
| — | PERMANENT WATER BAR 15' END TREATMENT | — | TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION |
| — | PERMANENT WATER BAR 20' END TREATMENT | — | |

NOTES:

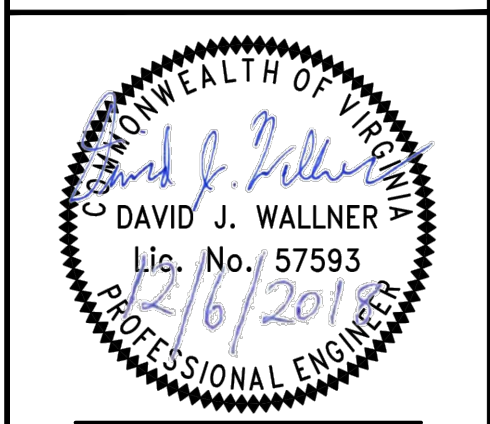
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- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

FIELD MODIFICATION		ADDRESS VABED COMMENTS	
RE	DW	RE	DW
6	12/06/18	KAL	RE
5	03/16/18	KAL	RE
4	03/04/18	KAL	RE
3	02/22/18	KAL	RE
2	11/21/17	KAL	RE
NO:	DATE:	CHD:	APPO:
REVISIONS:			

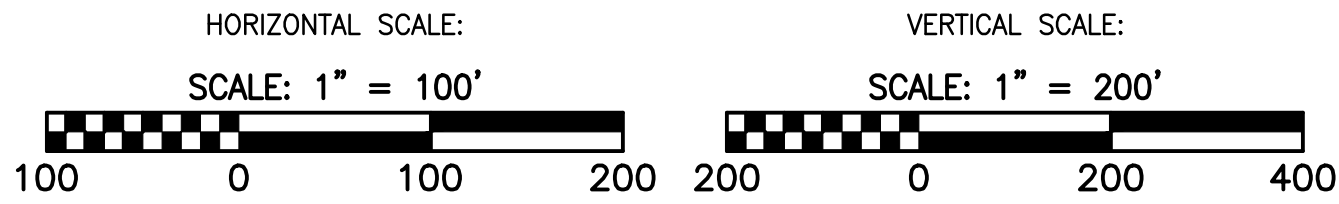
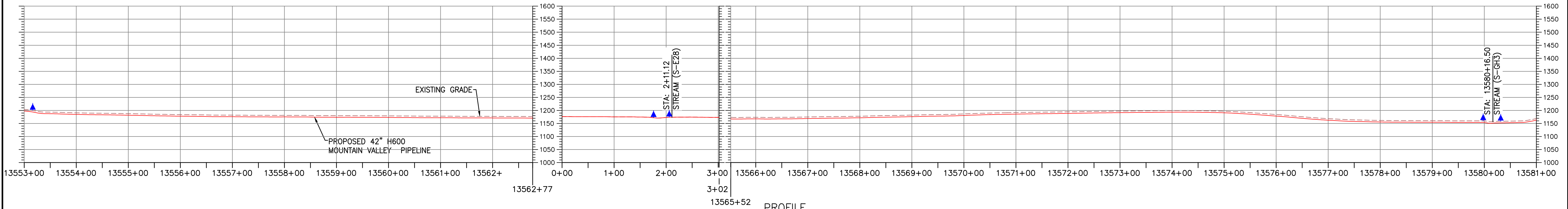
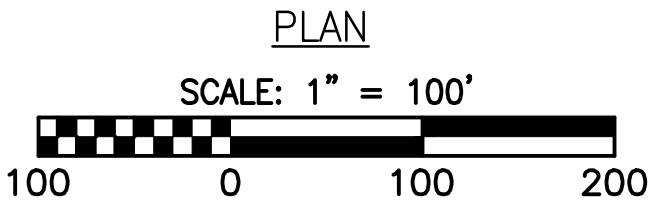
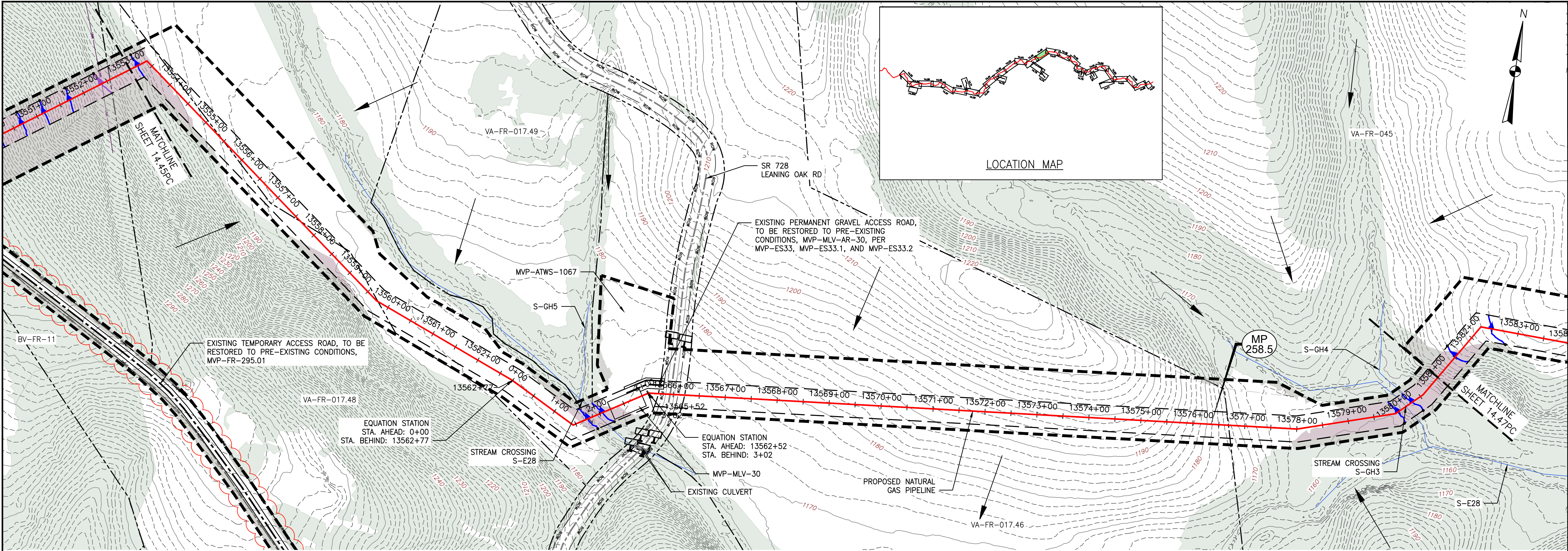
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS	
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE	
SPREAD 10 - FRANKLIN COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC	
2200 ENERGY DRIVE	
CANONSBURG, PA 15317	

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PITTSBURGH, PA 15220	

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS	
--	--



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	12/06/2018
SCALE:	AS SHOWN
SHT. NO. 14.45PC	OF 14.77PC



LEGEND

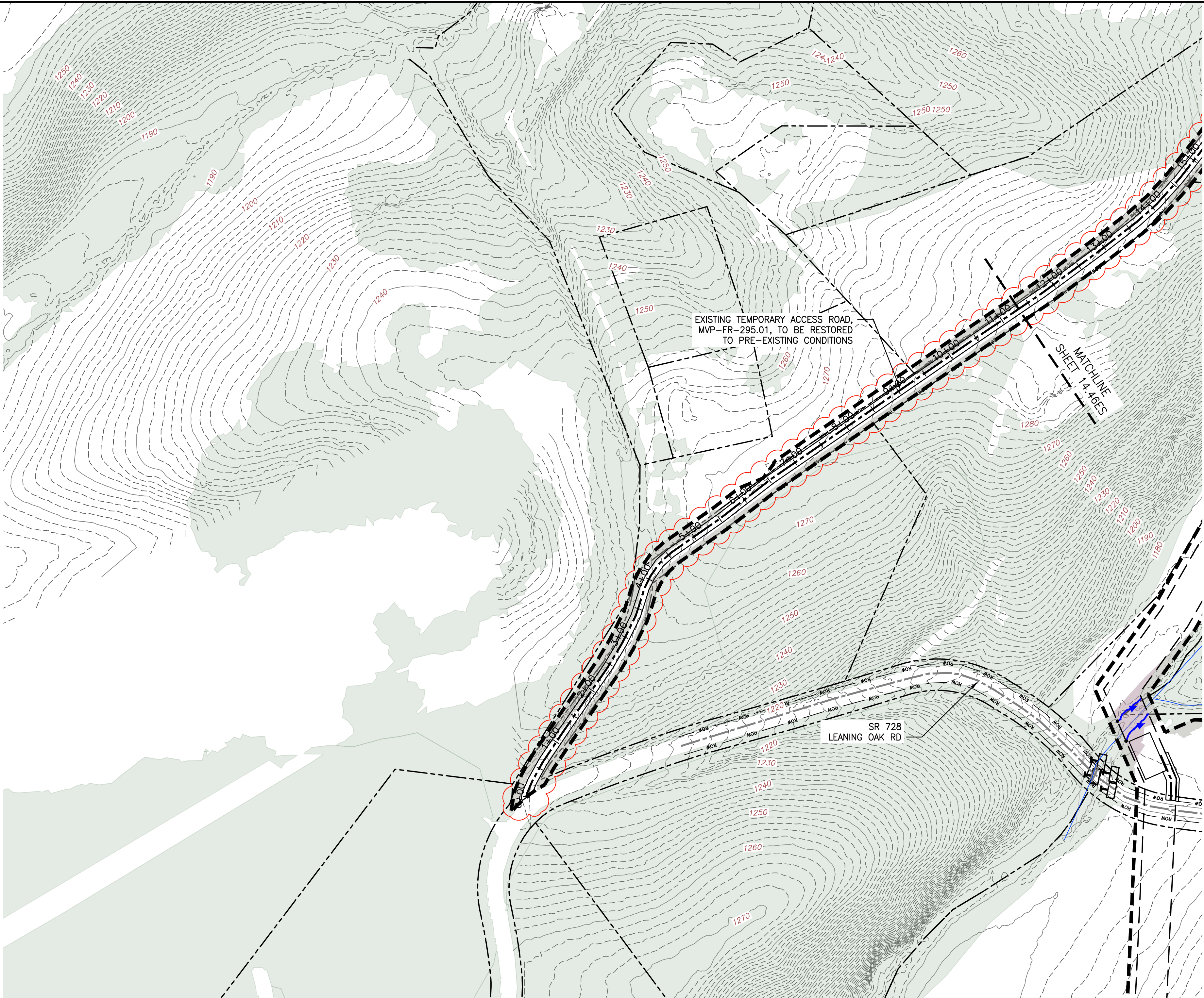
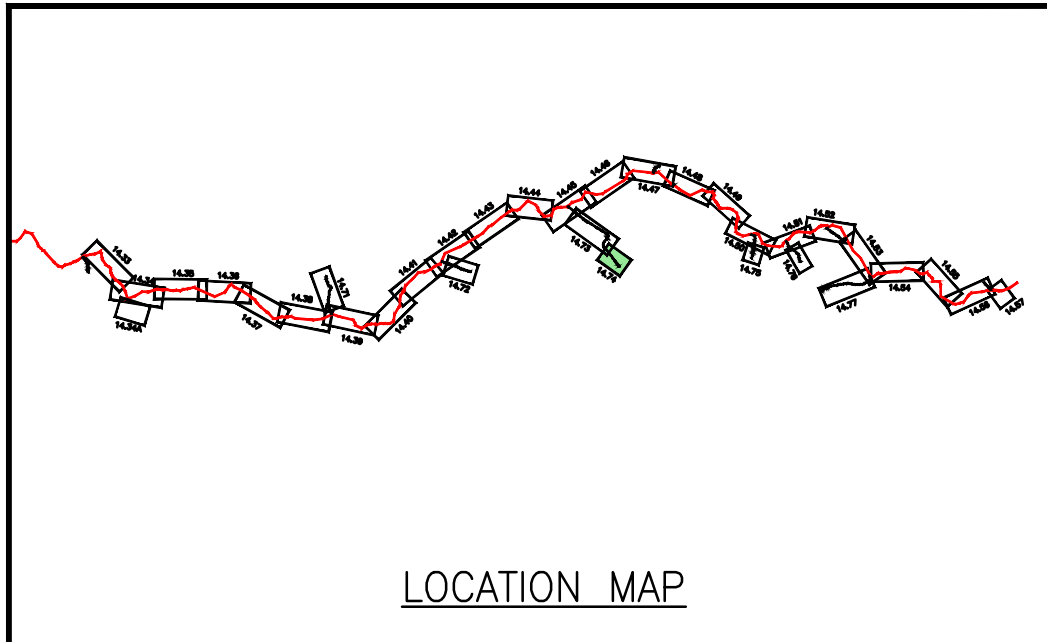
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|-------|---|-------|---|
| — | EXISTING CULVERT | —>>>> | PROPOSED LEVEL SPREADER DIVERSION |
| — | STREAM | +++++ | PROPOSED LEVEL SPREADER |
| - - - | EXISTING PROPERTY LINE | - - - | PROPOSED ACCESS ROAD CENTERLINE |
| - - - | EXISTING STATE LINE | - - - | PROPOSED PIPELINE |
| - - - | EXISTING COUNTY LINE | - - - | SURFACE WATER FLOW DIRECTION |
| - - - | EXISTING ROAD/TRAIL | —> | POND |
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| - - - | PROPOSED LIMIT OF DISTURBANCE | —> | FEMA 100 YEAR FLOODPLAIN |
| - - - | PROPOSED PERMANENT RIGHT OF WAY | —> | PERMANENT WATER BAR 10' END TREATMENT |
| | | —> | PERMANENT WATER BAR 15' END TREATMENT |
| | | —> | PERMANENT WATER BAR 20' END TREATMENT |

- | | |
|---|---|
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| — | EXISTING FOREST |
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FIELD MODIFICATION		ADDRESS VADEQ COMMENTS	
6	12/06/18	KAL	RE
	6	03/21/18	KAL
	5	03/16/18	KAL
	4	03/04/18	KAL
RESUBMISSION USING APPROVED STORMWATER METHODOLOGY		ADDRESS VADEQ COMMENTS	
3	11/22/17	KAL	RE
2	11/21/17	KAL	RE
NO.:	DATE:	DWNK:	APPD.:
DESCRIPTION:			
REVISIONS:			



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

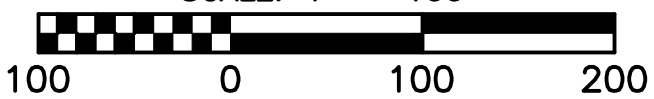
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
- POND
- WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
- APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)

- 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

PLAN

SCALE: 1" = 100'



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.

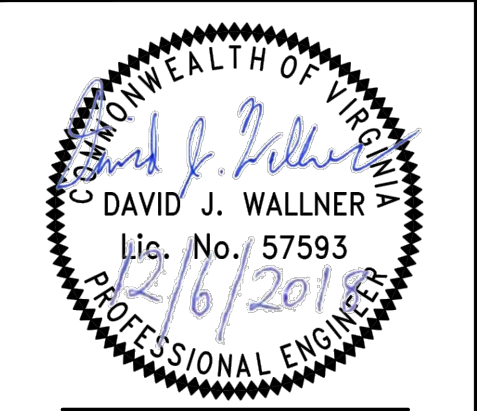
FIELD MODIFICATION		ADDRESS VADO COMMENTS	
6	12/06/18	KAL	DW
6	03/21/18	KAL	DW
5	03/16/18	KAL	DW
4	03/04/18	KAL	DW
3	02/22/18	KAL	DW
2	11/21/17	KAL	DW
NO:	DATE:	DWN:	APPD:
DESCRIPTION:			
REVISIONS:			

Mountain Valley Pipeline	
POST CONSTRUCTION (STORMWATER & RESTORATION) 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

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	12/06/2018
SCALE:	AS SHOWN
SHT. NO. 14.74PC OF 14.77PC	REVISION