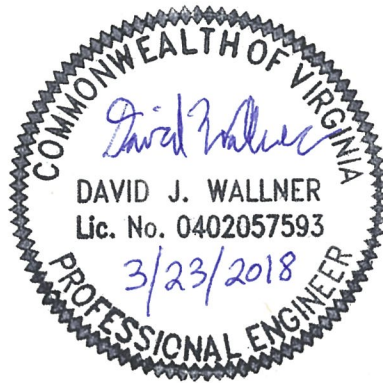
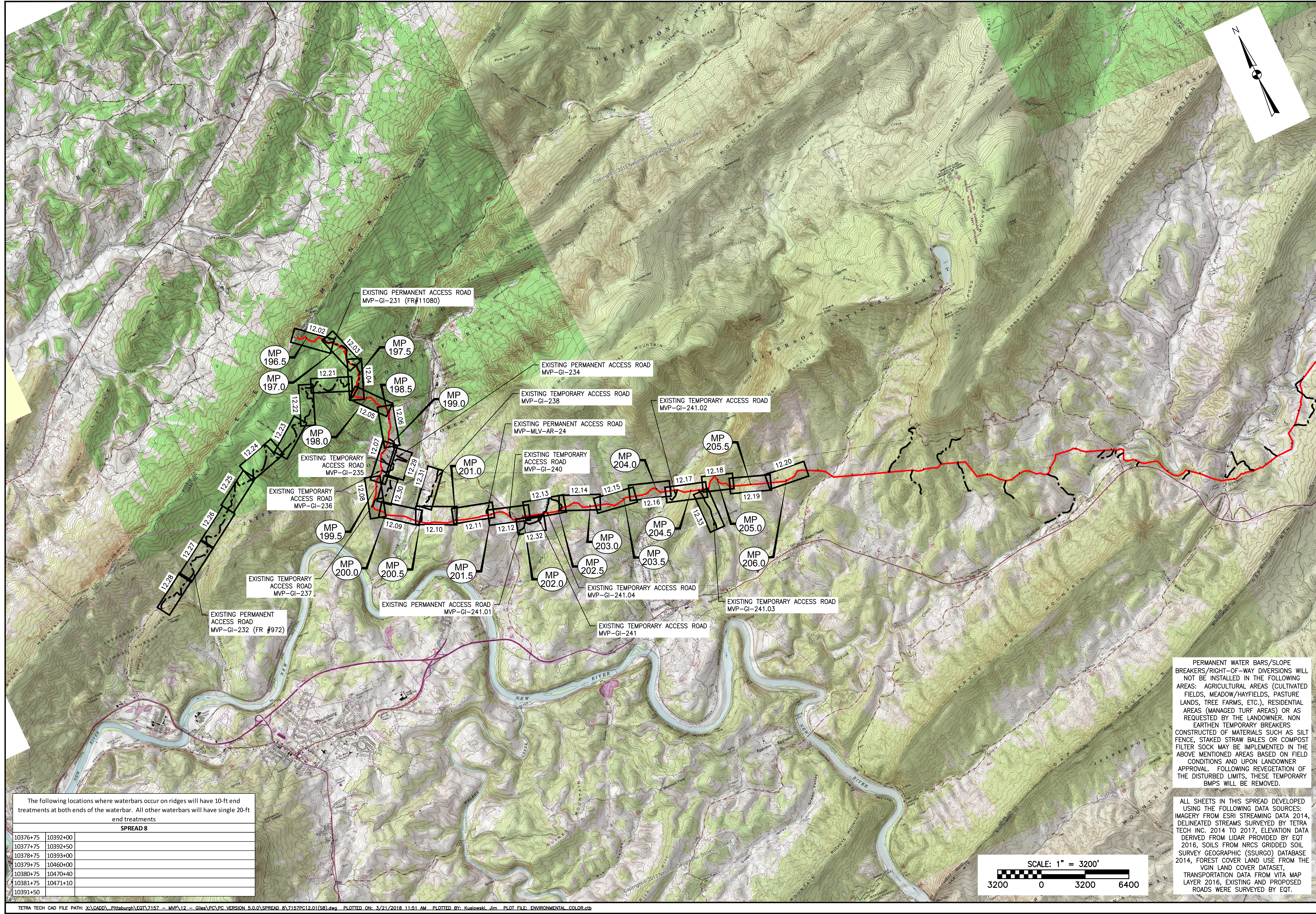


By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.

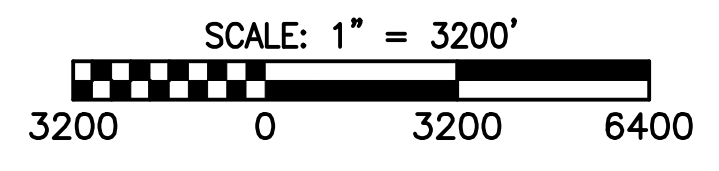




The following locations where waterbars occur on ridges will have 10-ft end treatments at both ends of the waterbar. All other waterbars will have single 20-ft end treatments

SPREAD 8

10376+75	10392+00
10377+75	10392+50
10378+75	10393+00
10379+75	10460+00
10380+75	10470+40
10381+75	10471+10
10391+50	



PERMANENT WATER BARS/SLOPE BREAKERS/RIGHT-OF-WAY DIVERSIONS WILL NOT BE INSTALLED IN THE FOLLOWING AREAS: AGRICULTURAL AREAS (CULTIVATED FIELDS, MEADOW/HAYFIELDS, PASTURE LANDS, TREE FARMS, ETC.), RESIDENTIAL AREAS (MANAGED TURF AREAS) OR AS REQUESTED BY THE LANDOWNER. NON EARTHEN TEMPORARY BREAKERS CONSTRUCTED OF MATERIALS SUCH AS SILT FENCE, STAKED STRAW BALES OR COMPOST FILTER SOCK MAY BE IMPLEMENTED IN THE ABOVE MENTIONED AREAS BASED ON FIELD CONDITIONS AND UPON LANDOWNER APPROVAL. FOLLOWING REVEGETATION OF THE DISTURBED LIMITS, THESE TEMPORARY Bmps WILL BE REMOVED.

ALL SHEETS IN THIS SPREAD DEVELOPED USING THE FOLLOWING DATA SOURCES: IMAGERY FROM ESRI STREAMING DATA 2014, DELINEATED STREAMS SURVEYED BY TETRA TECH INC. 2014 TO 2017, ELEVATION DATA DERIVED FROM LIDAR PROVIDED BY EQT 2016, SOILS FROM NRCS GRIDDED SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE 2014, FOREST COVER LAND USE FROM THE VGIN LAND COVER DATASET, TRANSPORTATION DATA FROM VITA MAP LAYER 2016. EXISTING AND PROPOSED ROADS WERE SURVEYED BY EQT.

NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION:
8	03/21/18	DW	KAL		ADDRESS VABEO COMMENTS
7	03/16/18	DW	KAL		ADDRESS VABEO COMMENTS
6	02/16/18	DW	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	DW	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	DW	KAL		ADDRESS VABEO COMMENTS
3	11/01/17	DW	KAL		ADDRESS VABEO COMMENTS

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 8 - GILES COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15311

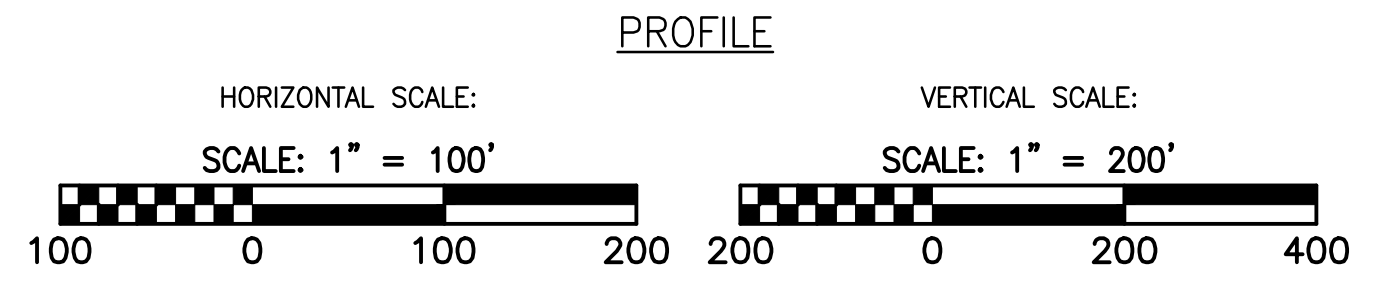
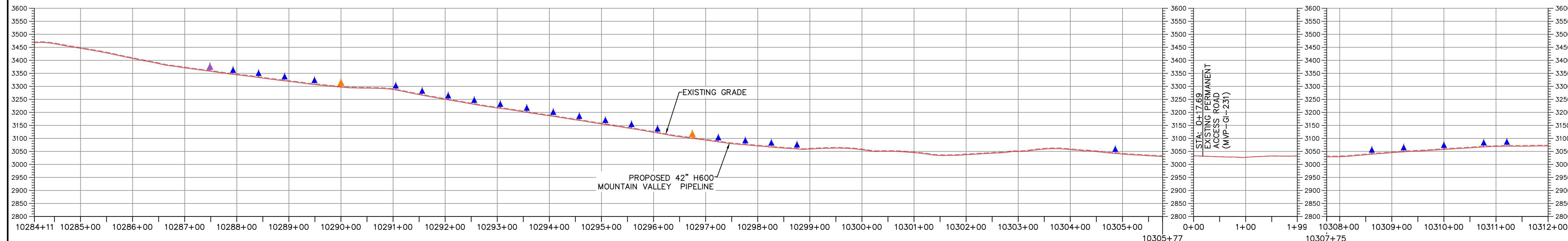
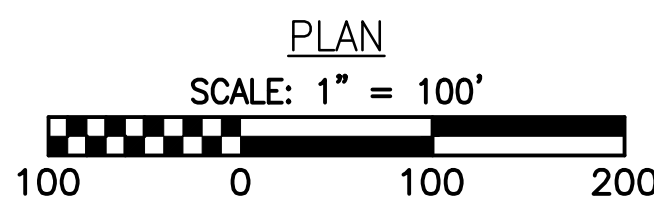
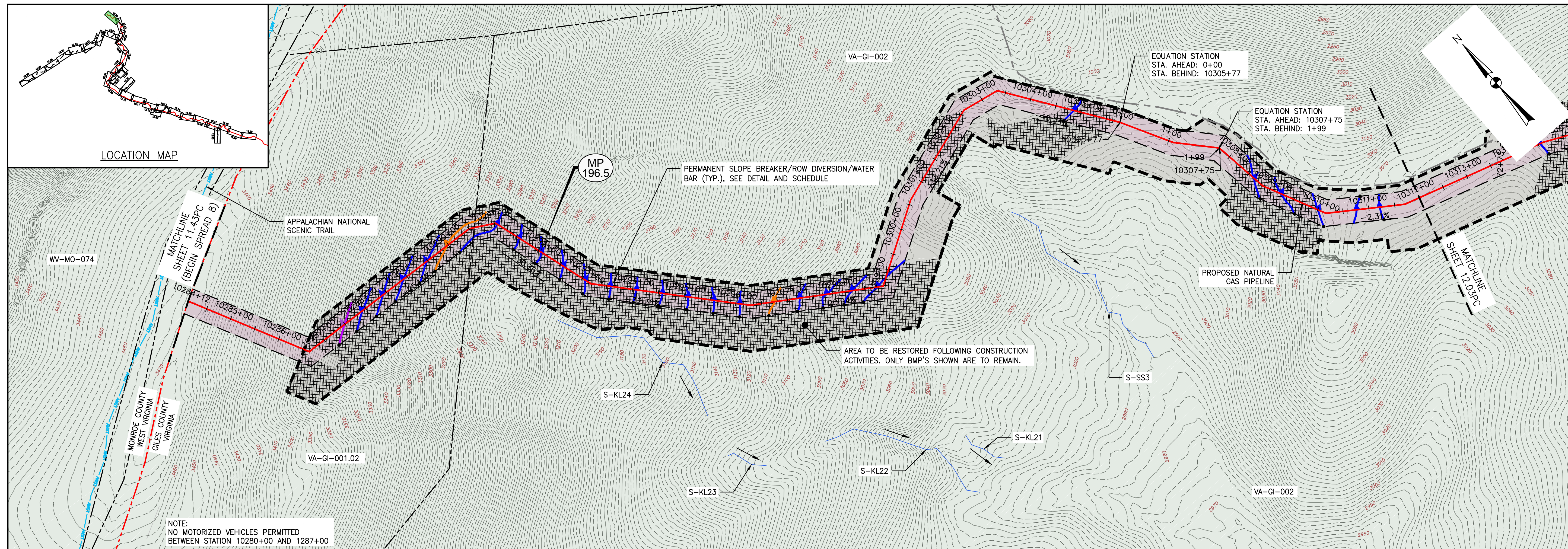
TETRA TECH
complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
David J. Wallner
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.01PC OF 12.33PC	



LEGEND

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

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 OF 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
8	03/21/18	KAL	DW	ADDRESS VAEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VAEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VAEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VAEQ COMMENTS

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

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15311

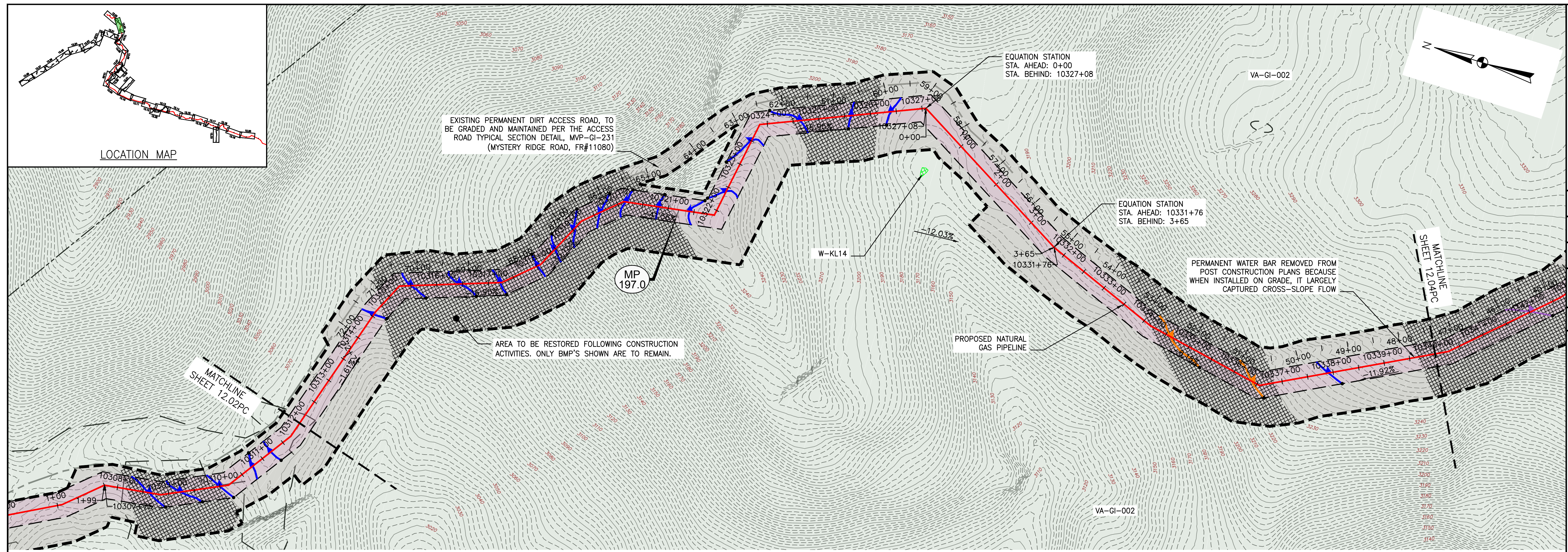
TETRA TECH
complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

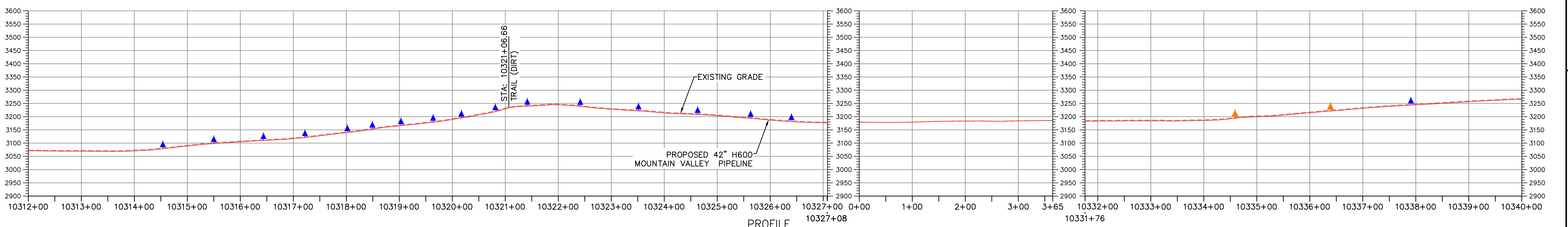
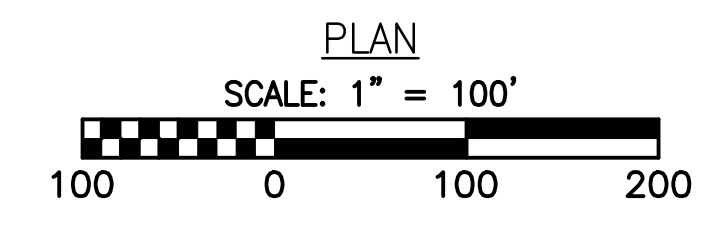
COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 0402057593
Professional Engineer

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.02PC OF 12.33PC	REVISION



NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311



LEGEND

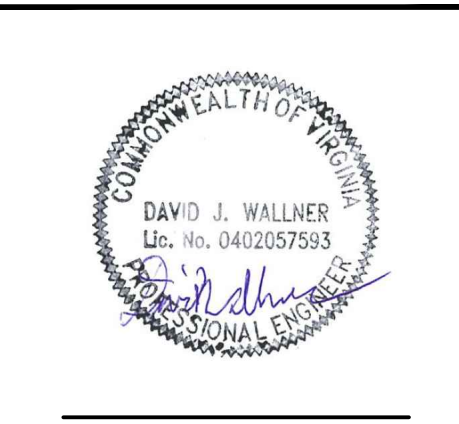
- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED 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

NOTES:

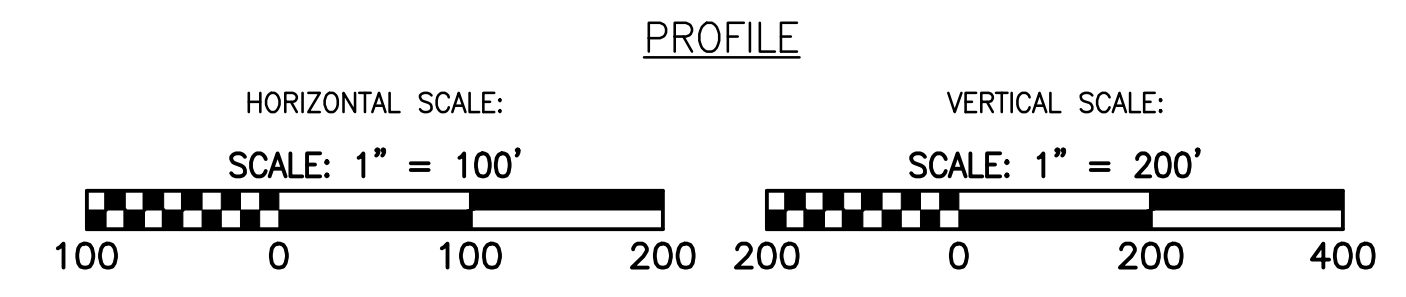
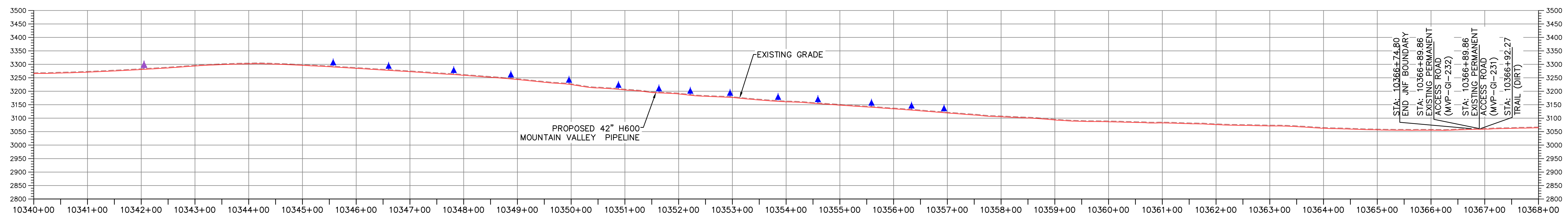
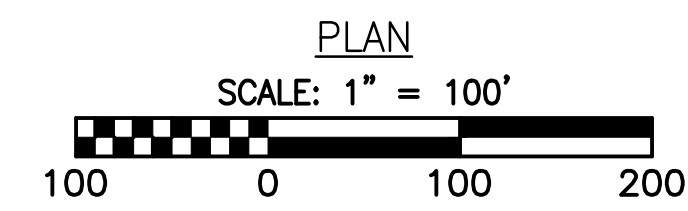
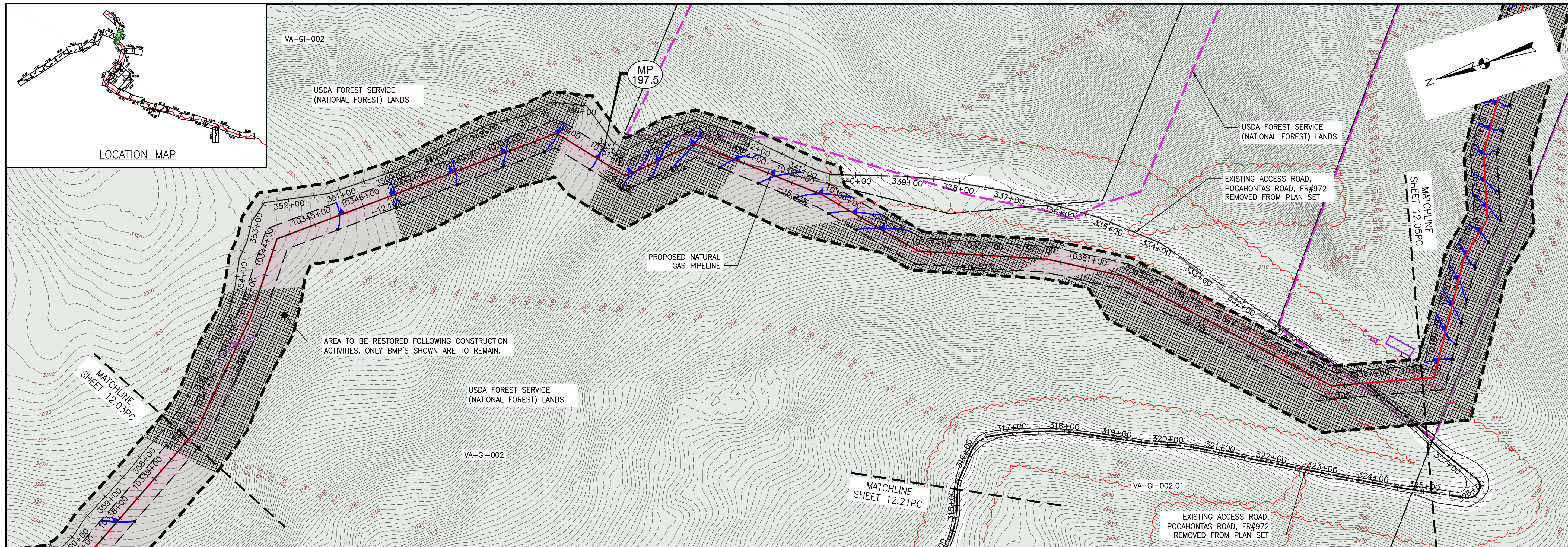
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

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

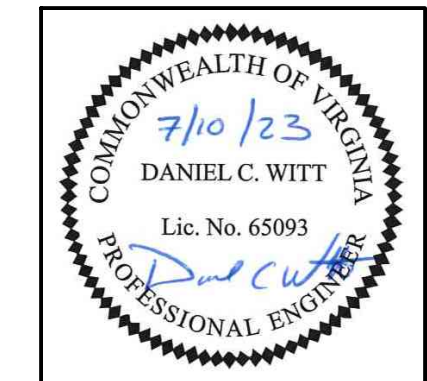
POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.03PC	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)
 - 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 07-10-23

- 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.

07/10/23	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
08	KAL	DW	ADDRESS VADO COMMENTS
03/16/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
02/16/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
02/05/18	KAL	DW	ADDRESS VADO COMMENTS
11/28/17	KAL	RE	ADDRESS VADO COMMENTS
NO.	DATE:	DWN:	APPD:
			DESCRIPTION:

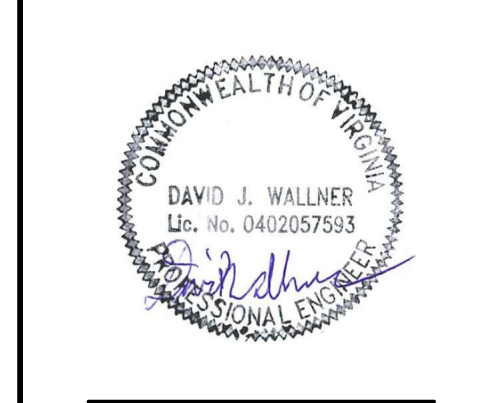
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA

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

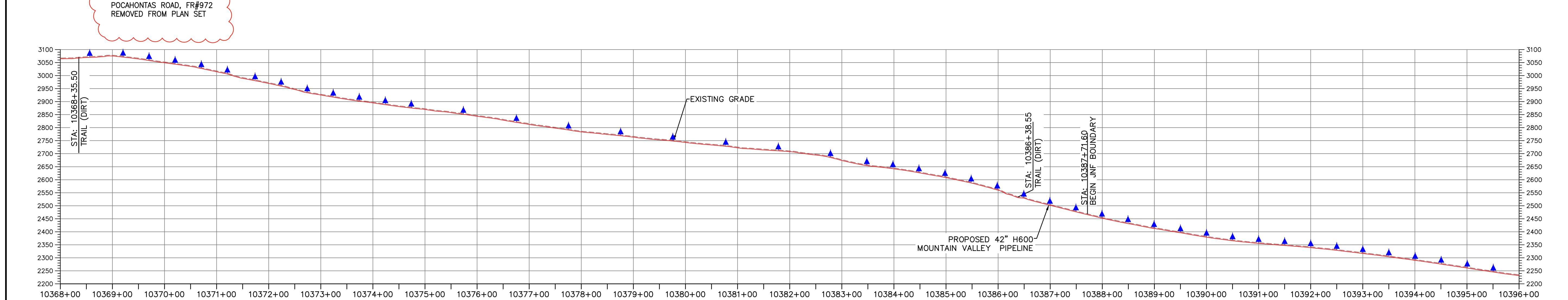
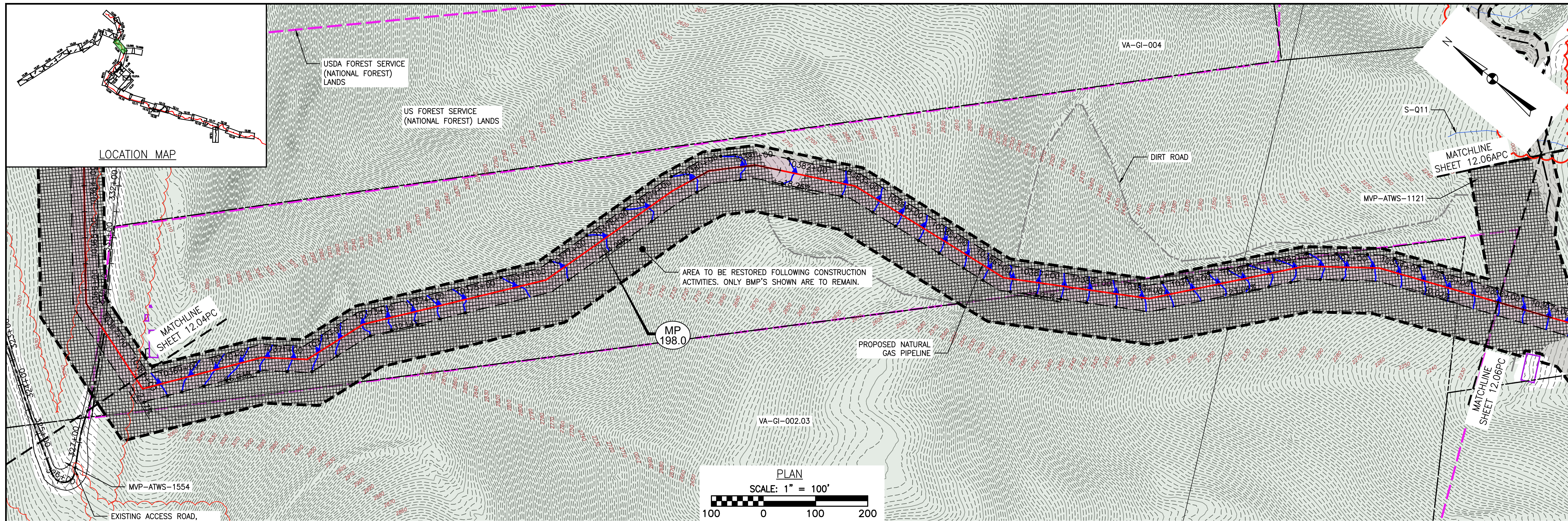
TETRA TECH
complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.04PC OF 12.33PC	REVISION



LEGEND

— EXISTING CULVERT	— PROPOSED LEVEL SPREADER DIVERSION	→ STREAM FLOW DIRECTION	▨ STEEP SLOPE AREA
— STREAM	++++ PROPOSED LEVEL SPREADER	— FEMA 100 YEAR FLOODPLAIN	▨ EXISTING FOREST
- - - EXISTING PROPERTY LINE	— PROPOSED ACCESS ROAD CENTERLINE	▲ PERMANENT WATER BAR 10' END TREATMENT	▨ PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- - - EXISTING STATE LINE	— PROPOSED PIPELINE	▲ PERMANENT WATER BAR 15' END TREATMENT	▨ TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
- - - EXISTING COUNTY LINE	→ SURFACE WATER FLOW DIRECTION	▲ PERMANENT WATER BAR 20' END TREATMENT	
- - - 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			

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	07/10/23	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	08/03/21/18	KAL	RE	ADDRESS VAREO COMMENTS
3	03/16/18	KAL	RE	ADDRESS VAREO COMMENTS
4	02/16/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	11/28/17	KAL	RE	ADDRESS VAREO COMMENTS

Mountain Valley Pipeline
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

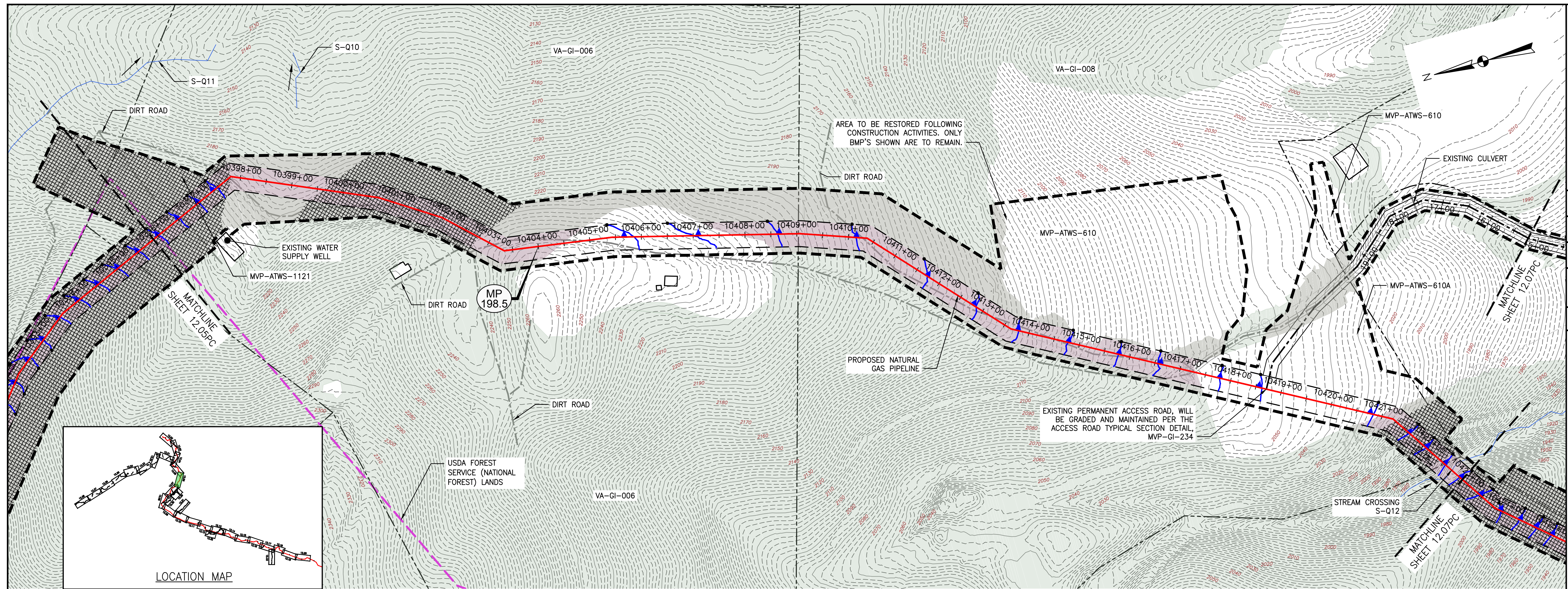
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

COMMONWEALTH OF VIRGINIA
 7/10/23
 DANIEL C. WITT
 Lic. No. 65093
 PROFESSIONAL ENGINEER

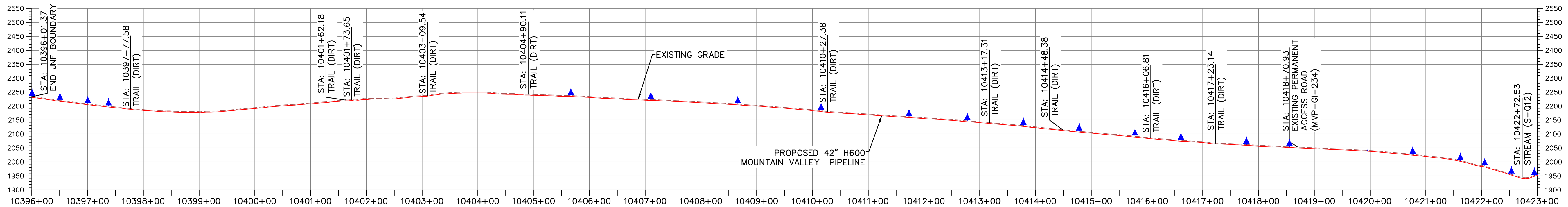
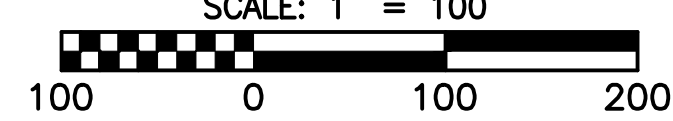
THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.05PC OF 12.33PC	



PLAN

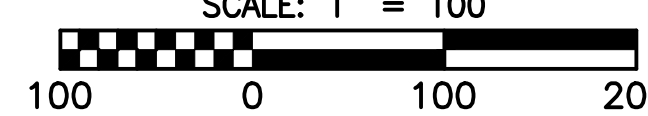
SCALE: 1" = 100'



PROFILE

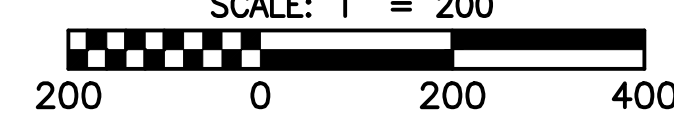
HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



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

NOTES:

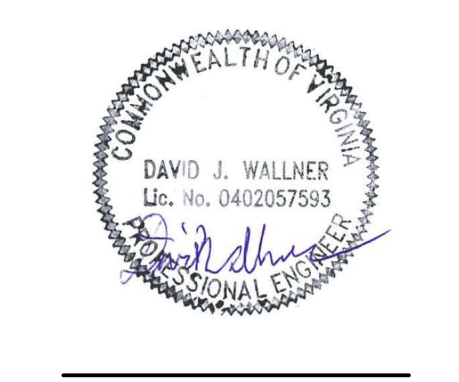
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VAQED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VAQED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VAQED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VAQED COMMENTS

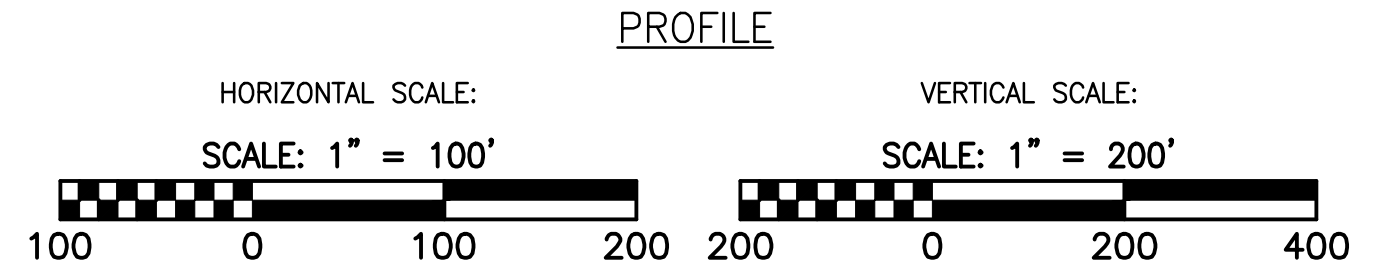
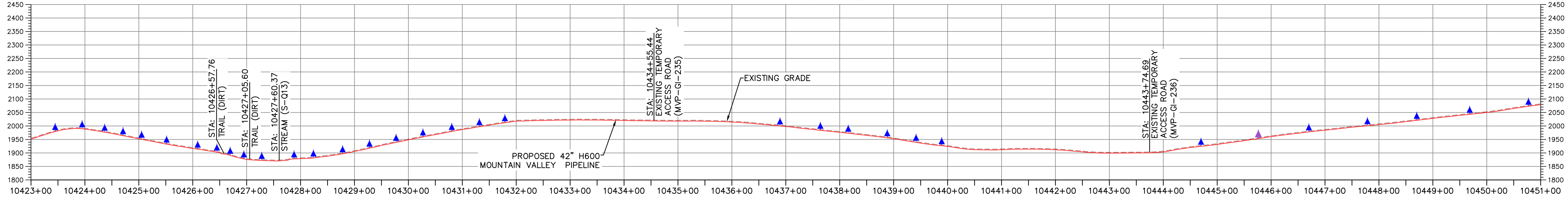
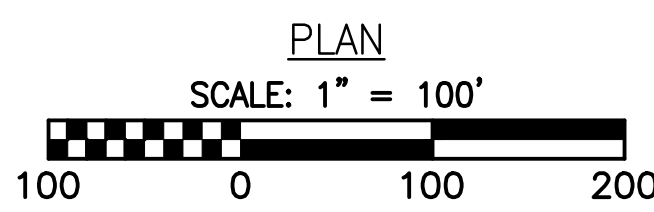
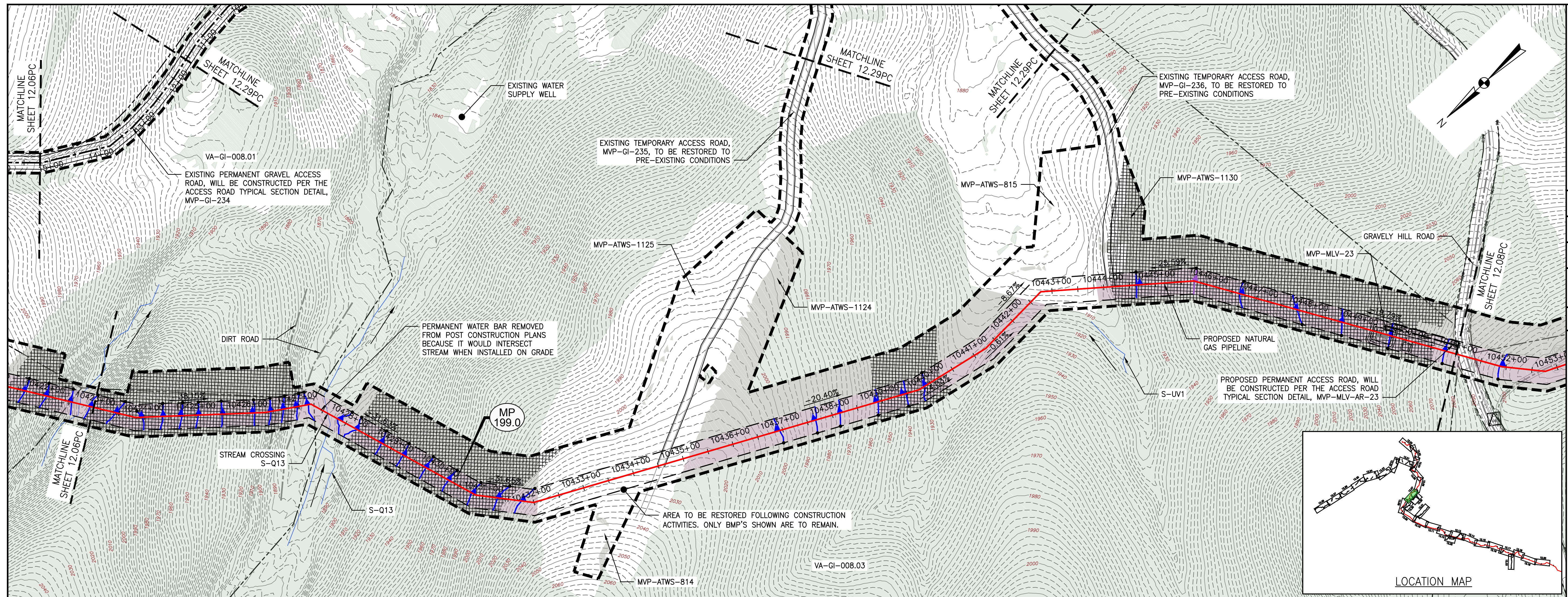
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.06PC OF 12.33PC	REVISION



LEGEND

—	EXISTING CULVERT	—>—>—>	PROPOSED LEVEL SPREADER DIVERSION	—>	STREAM FLOW DIRECTION
—	STREAM	+++++	PROPOSED LEVEL SPREADER	—▲—	PERMANENT WATER BAR 10' END TREATMENT
- - -	EXISTING PROPERTY LINE	—	PROPOSED ACCESS ROAD CENTERLINE	—▲—	PERMANENT WATER BAR 15' END TREATMENT
- - -	EXISTING STATE LINE	—	PROPOSED PIPELINE	—▲—	PERMANENT WATER BAR 20' END TREATMENT
- - -	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	—	—	—	—

—	STEEP SLOPE AREA
—	EXISTING FOREST
—	PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
—	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

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
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

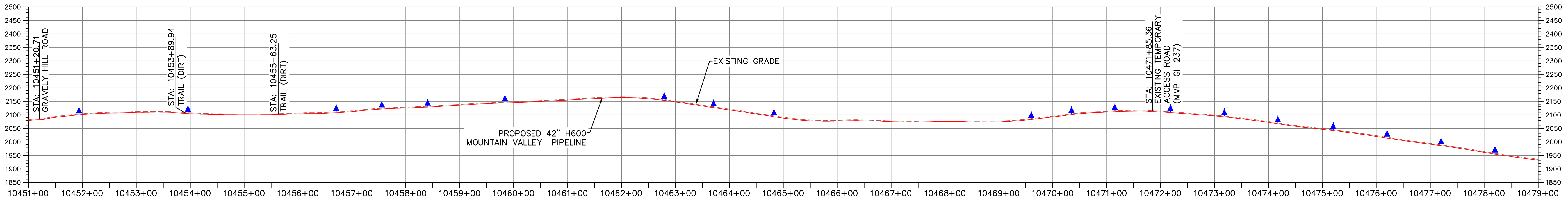
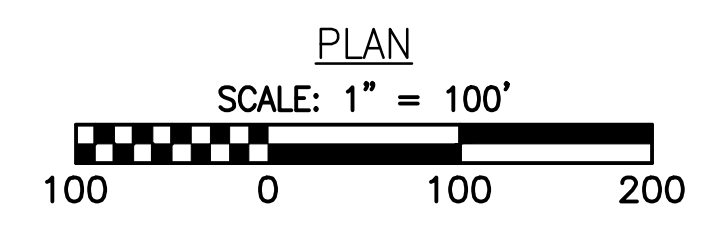
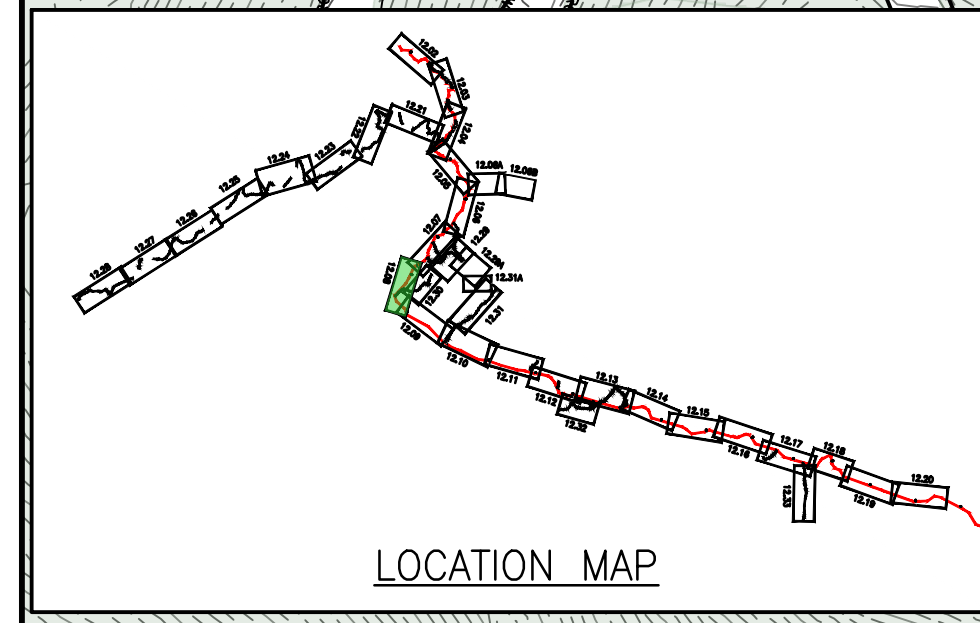
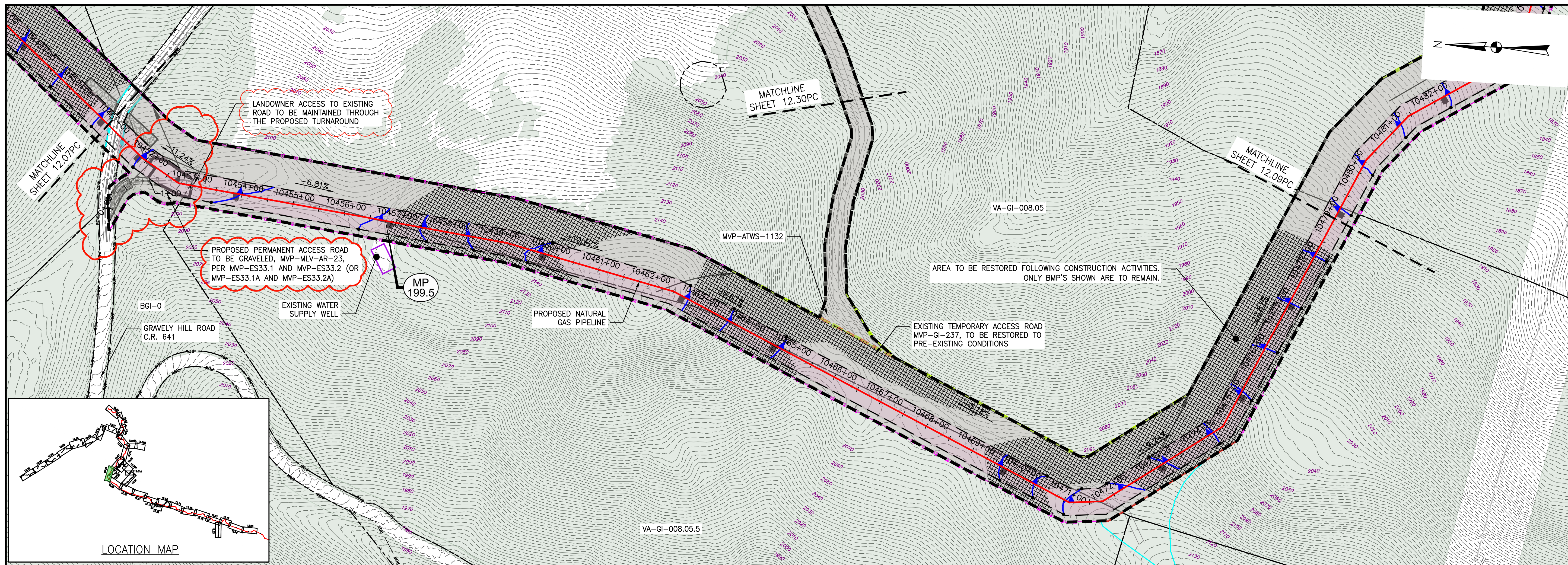
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

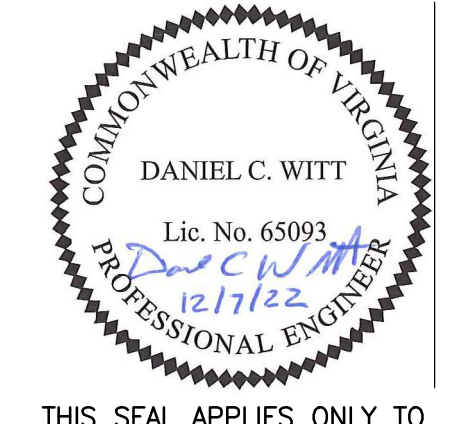
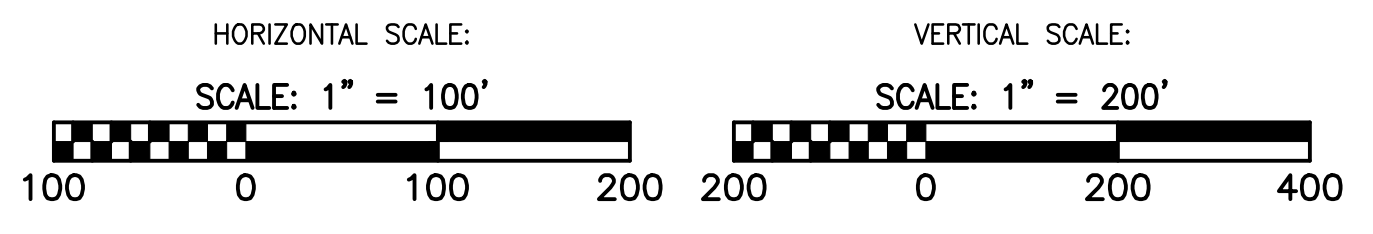
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

COMMONWEALTH OF PENNSYLVANIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.07PC OF 12.33PC	REVISION



- 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 199.5 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

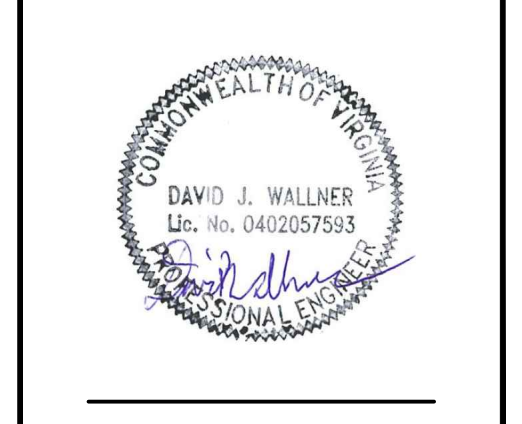
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

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

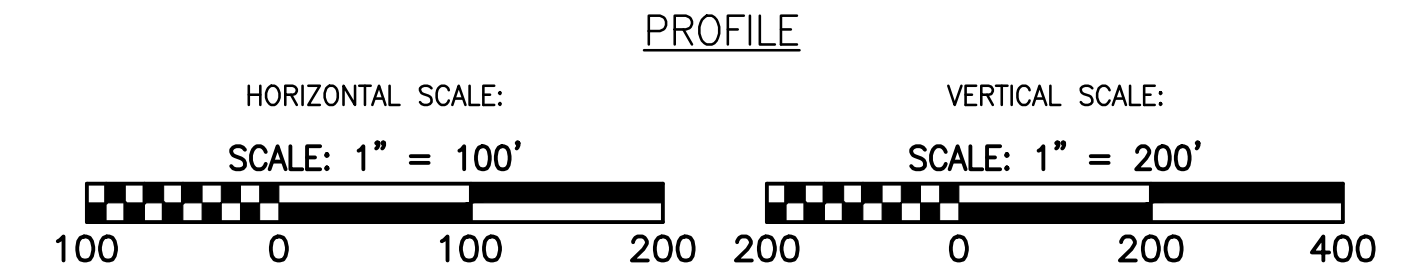
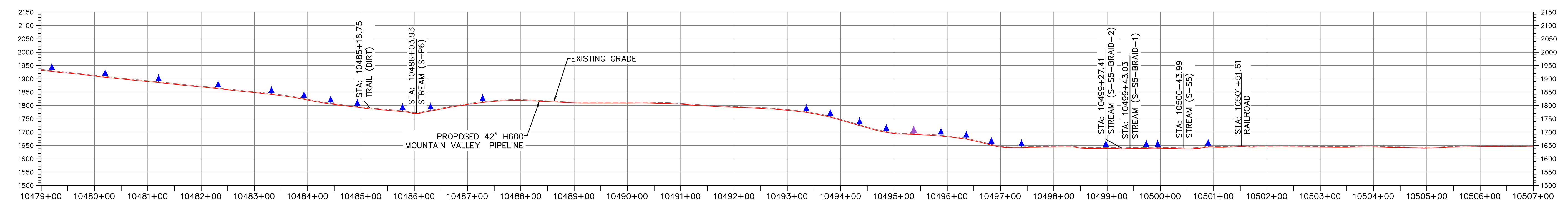
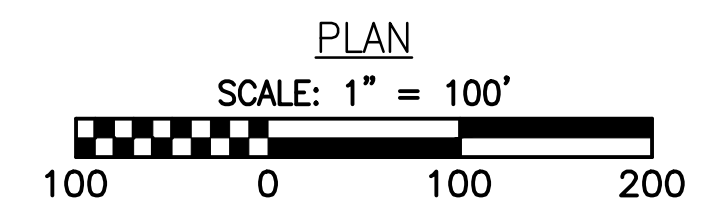
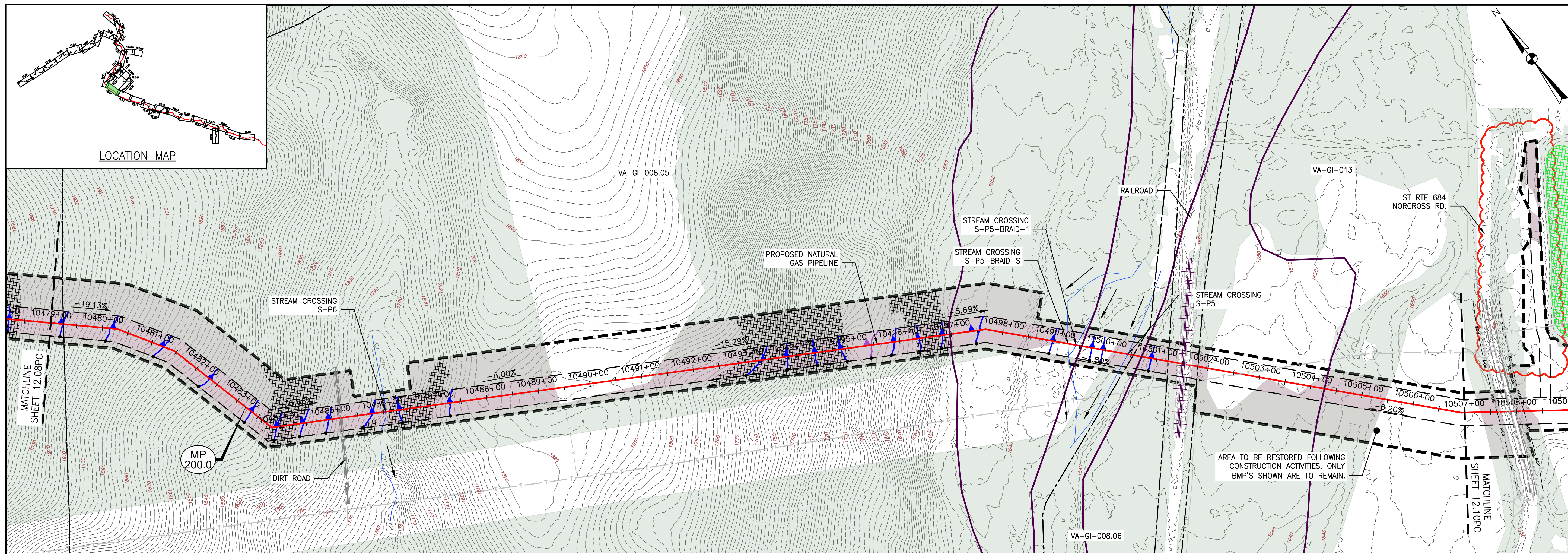
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

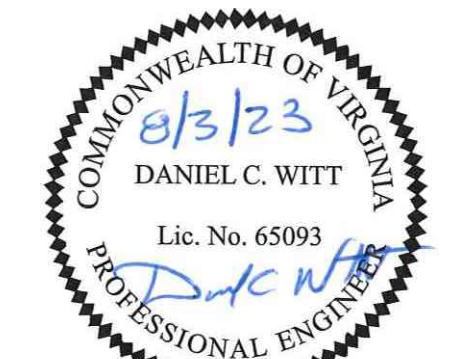
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	12/07/2022
SCALE:	AS SHOWN
SHT. NO. 12.08PC 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)
 - 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 PE SEAL APPLIES ONLY TO REVISIONS DATED 08-03-2023

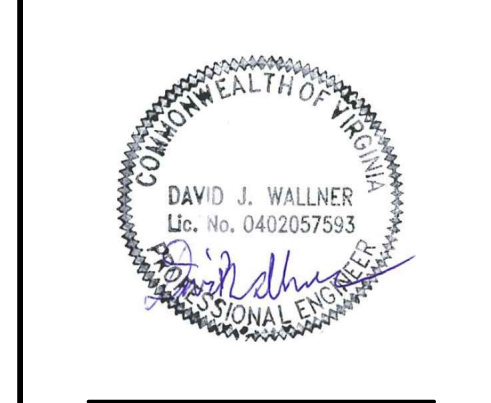
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
 - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	08/03/23	IHH	DCW	REVISE CPGB LIMITS TO AVOID TREES
2	04/30/18	KAL	DW	FIELD MODIFICATION
3	03/21/18	KAL	DW	ADDRESS VABEC COMMENTS
4	03/16/18	KAL	DW	ADDRESS VABEC COMMENTS
5	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

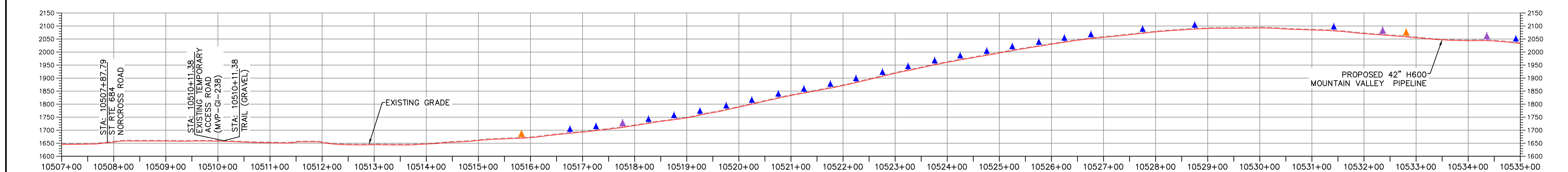
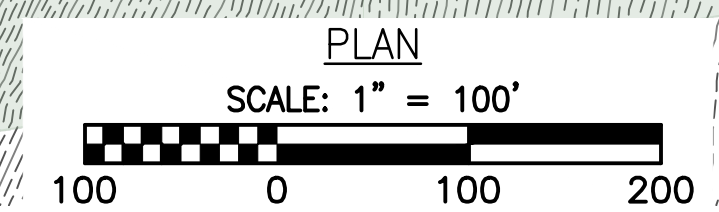
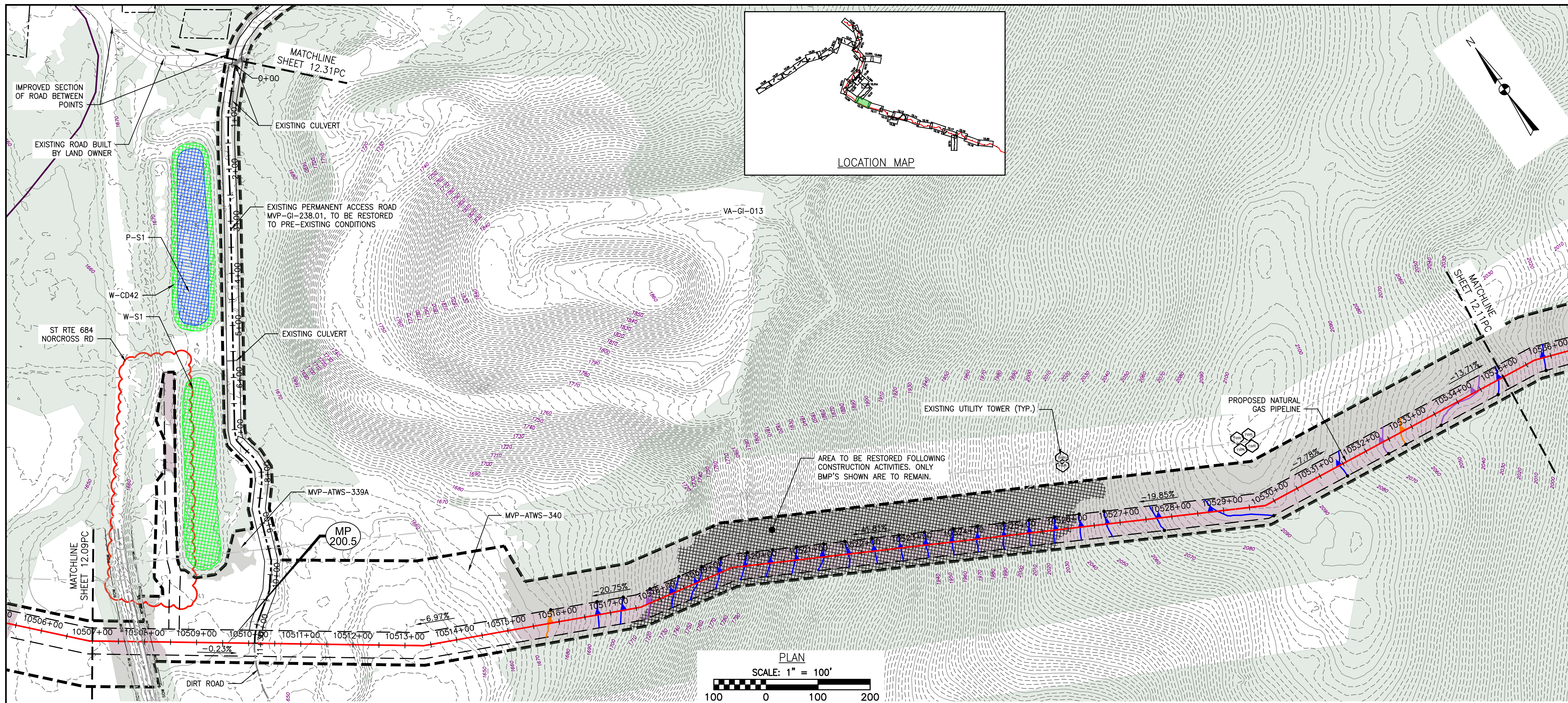
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

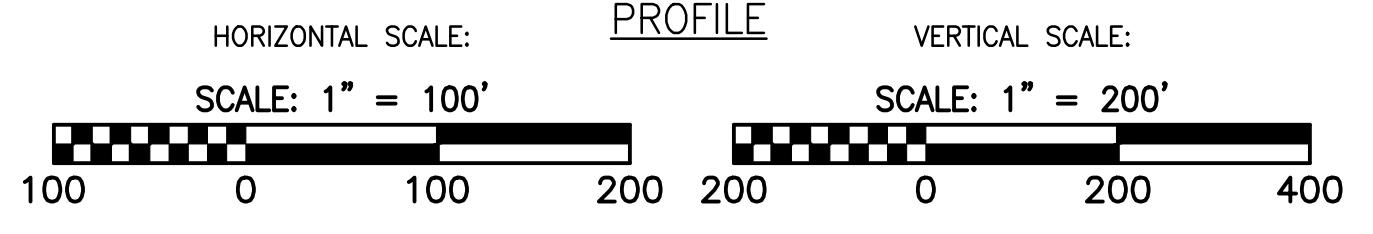


DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	08/03/2023
SCALE:	AS SHOWN
SHT. NO. 12.09PC OF	12.33PC



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)	—	STREAM FLOW DIRECTION
—	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
		—	STEEP SLOPE AREA
		—	EXISTING FOREST
		—	PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
		—	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION



THIS PE SEAL APPLIES ONLY TO REVISIONS DATED 08-03-2023

- 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	08/03/23	JUZ	IHH	REVISE CPGB LIMITS TO AVOID TREES
2	04/30/18	KAL	RE	FIELD MODIFICATION
3	03/21/18	KAL	RE	ADDRESS VABEC COMMENTS
4	03/16/18	KAL	RE	ADDRESS VABEC COMMENTS
5	02/16/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/16/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
7	02/05/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

Mountain Valley Pipeline

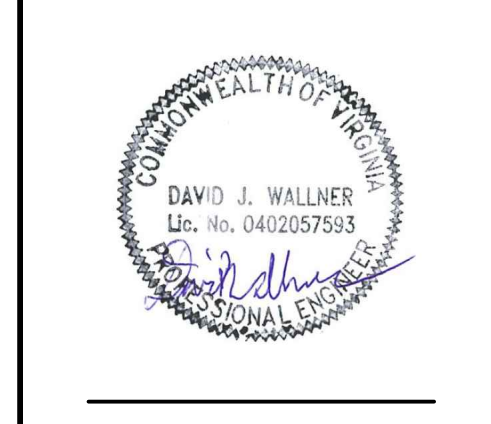
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

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

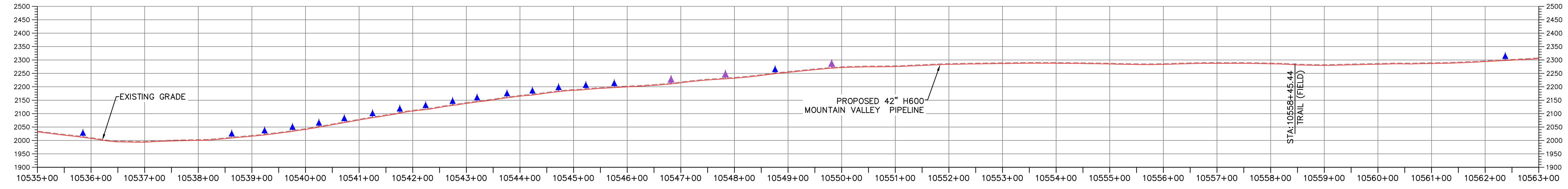
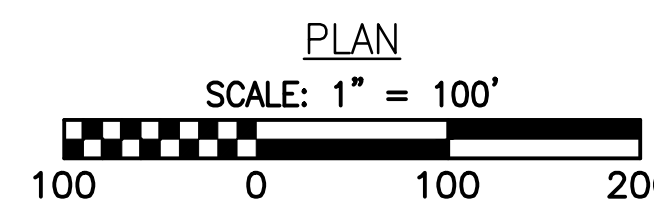
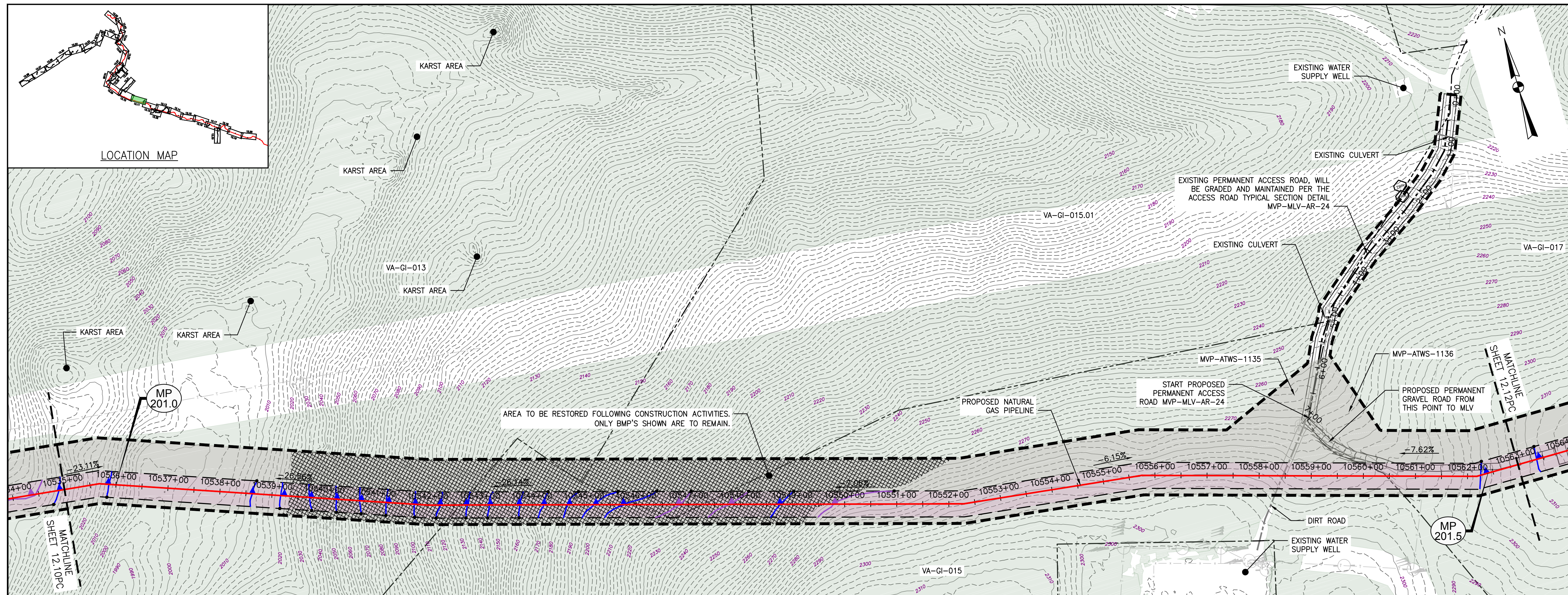
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

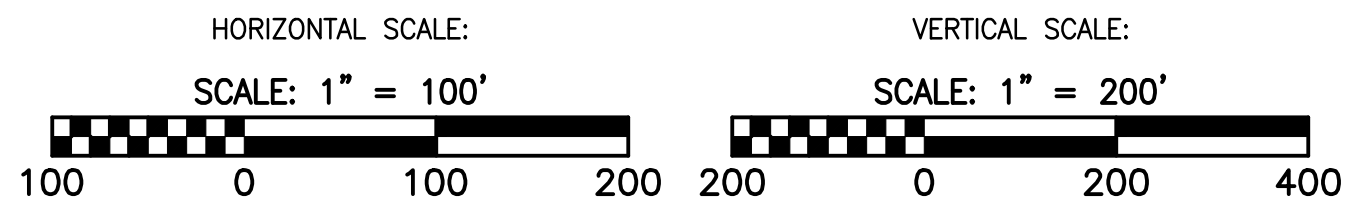
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	08/03/2023
SCALE:	AS SHOWN
SHT. NO. 12.10PC OF 12.33PC	



PROFILE



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

NOTES:

1. 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.
2. 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
8	03/21/18	KAL	DW	REVISION
7	03/16/18	KAL	DW	REVISION
6	02/16/18	KAL	DW	REVISION
5	02/05/18	KAL	DW	REVISION
4	11/28/17	KAL	DW	REVISION
3	11/01/17	KAL	DW	REVISION

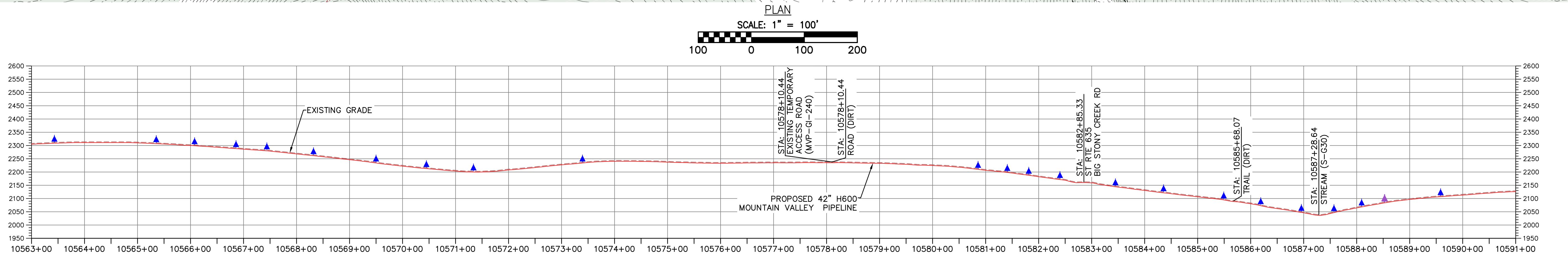
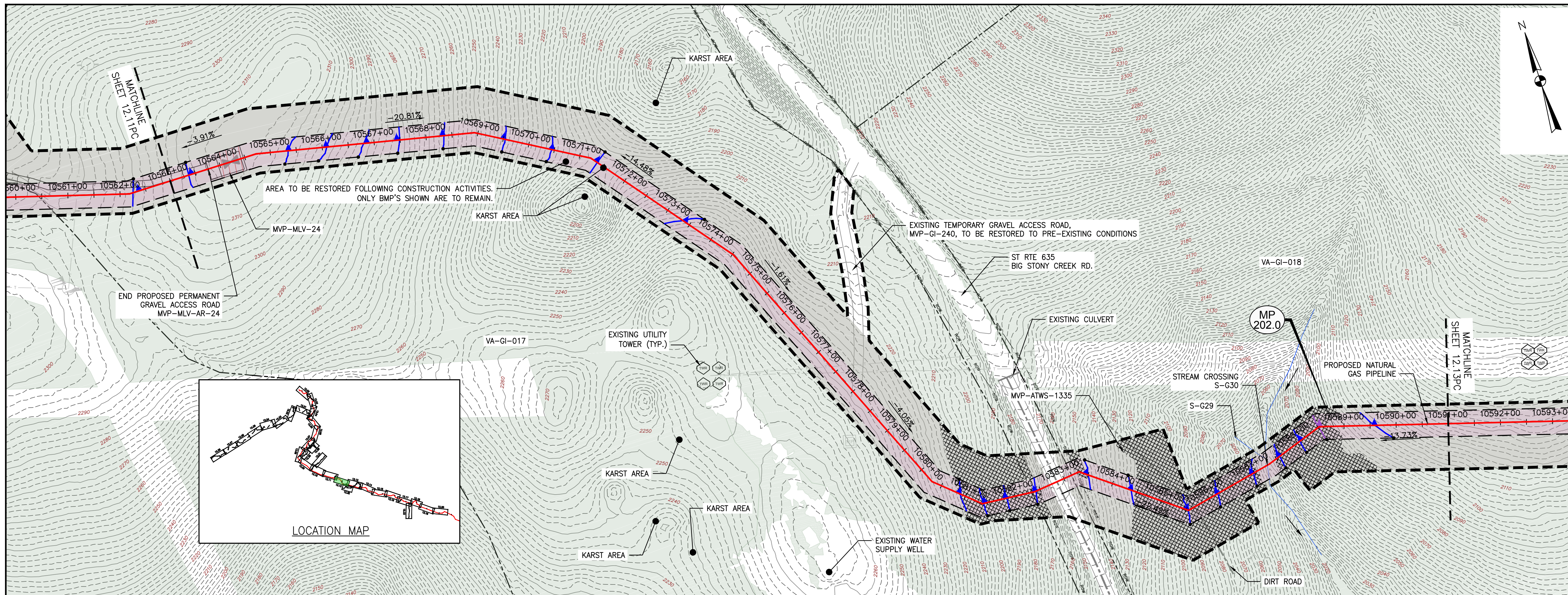
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 0402057593
Professional Engineer

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.11PC OF 12.33PC	REVISION



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

NOTES:

1. 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.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE OF 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
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

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

Mountain Valley Pipeline, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

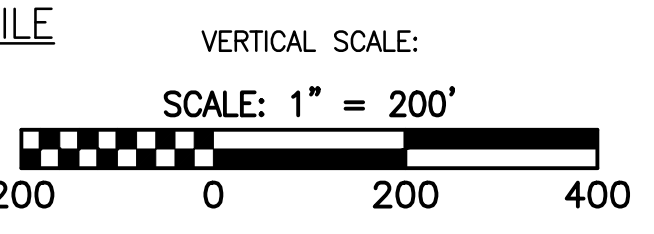
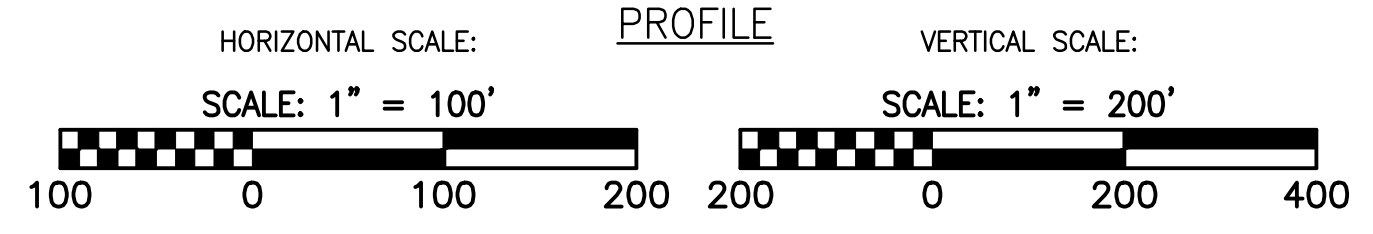
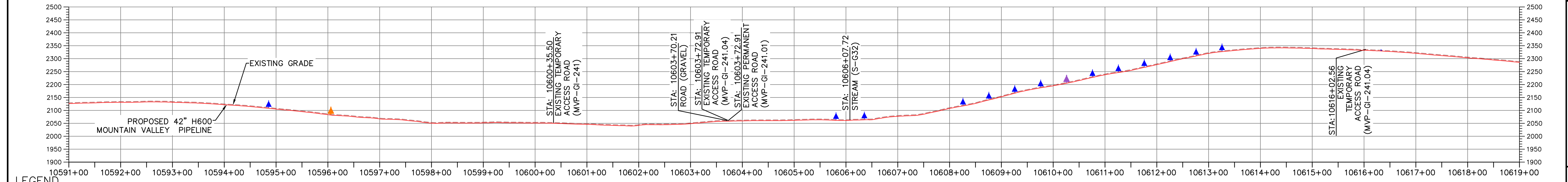
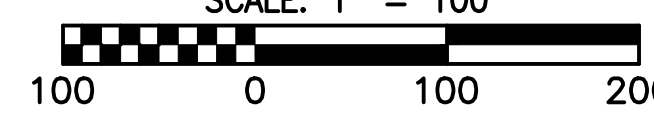
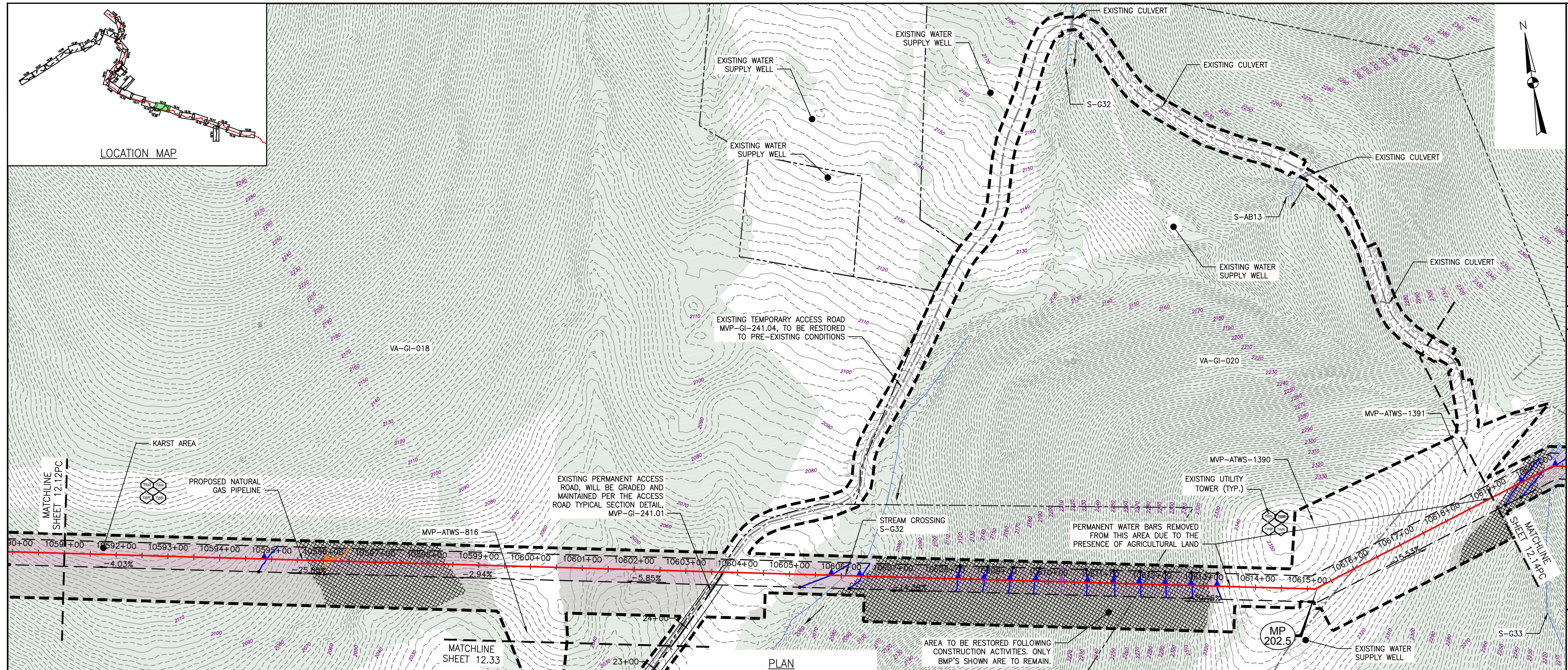
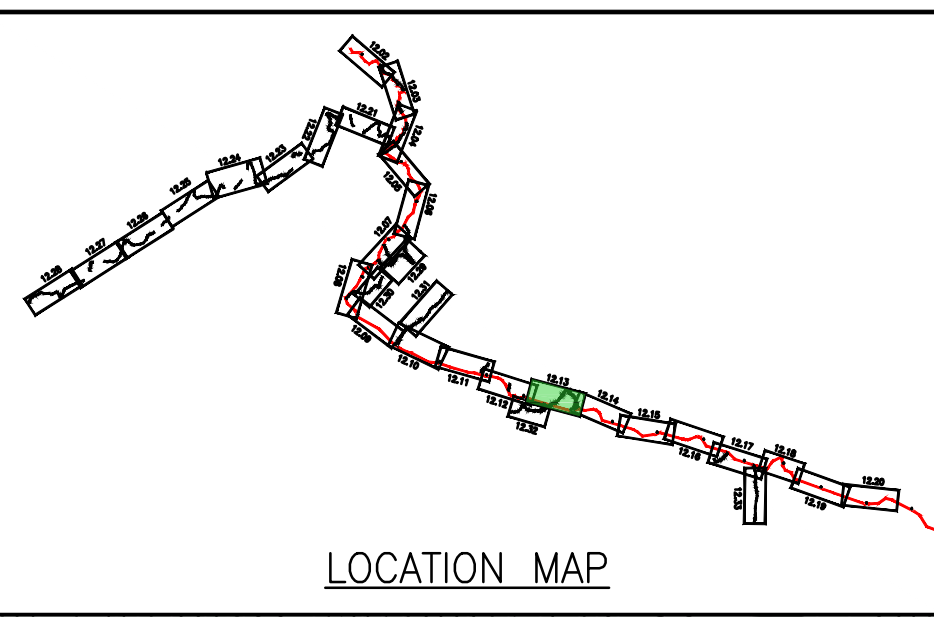
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.12PC OF 12.33PC	REVISION



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

NOTES:

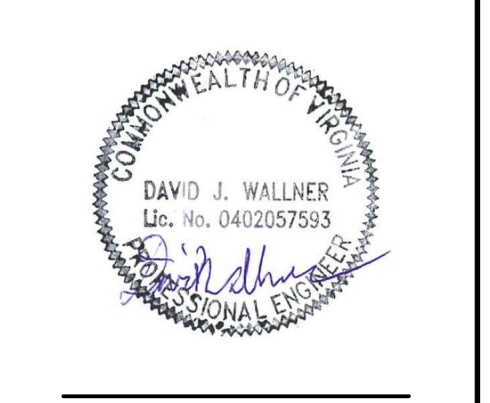
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

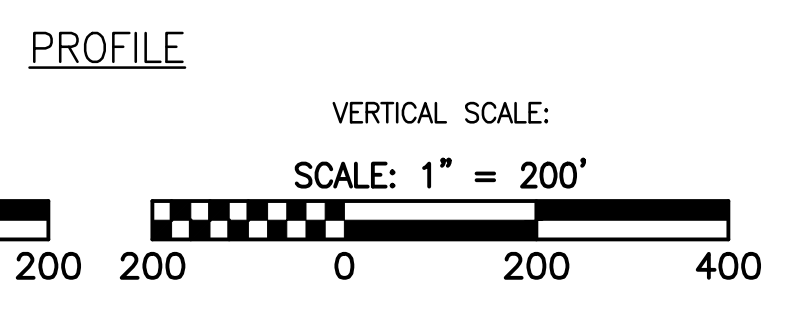
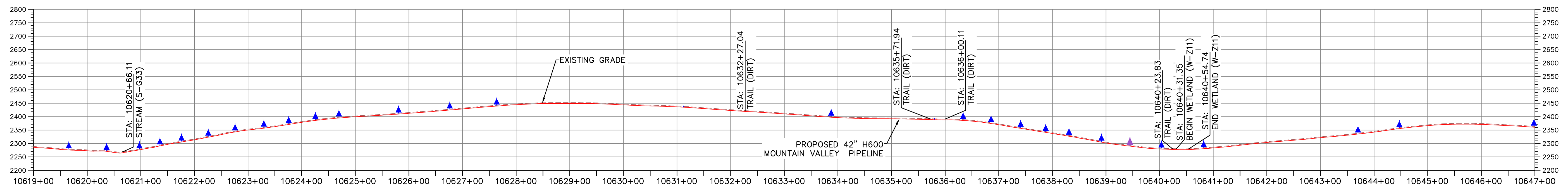
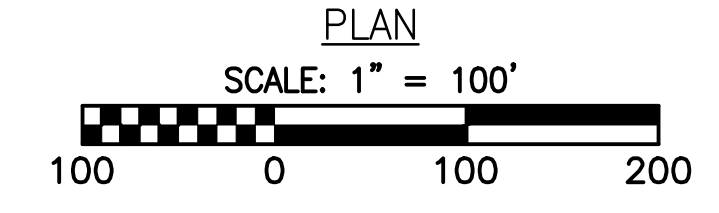
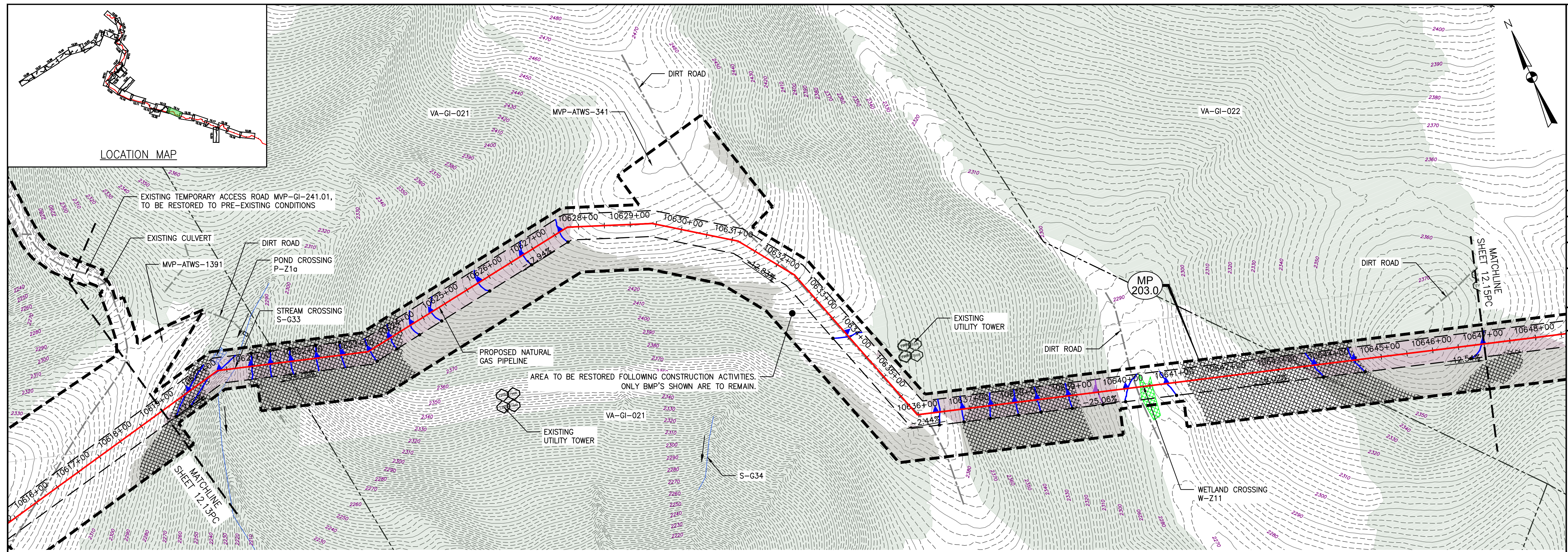
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.13PC OF 12.33PC	REVISION



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

NOTES:

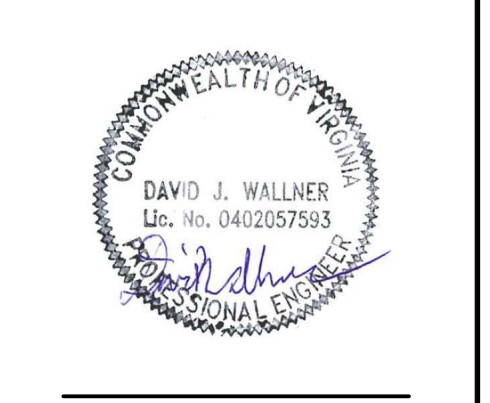
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

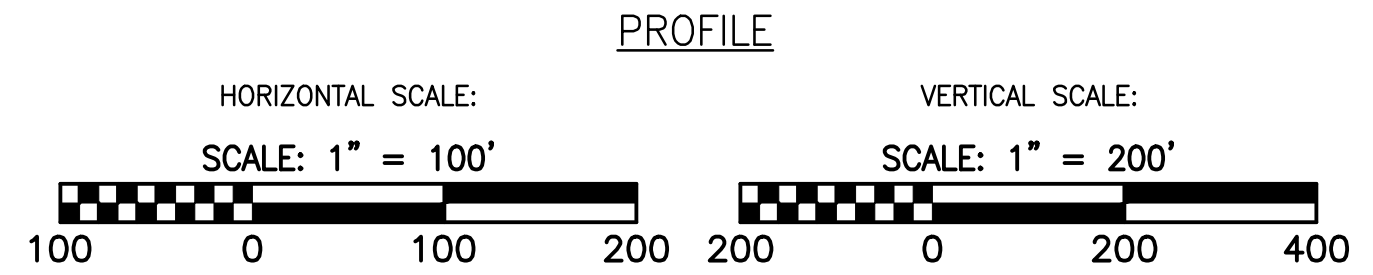
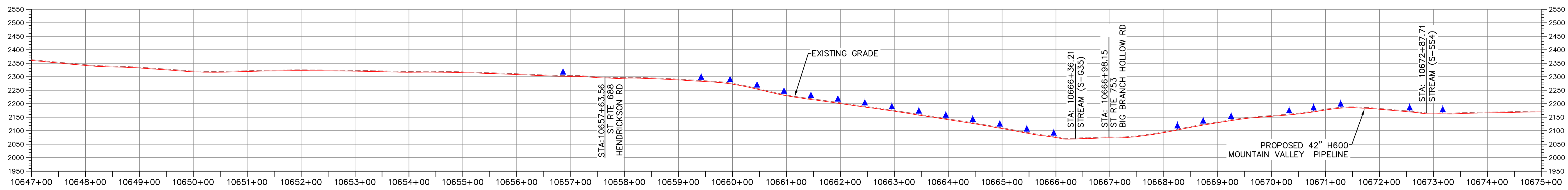
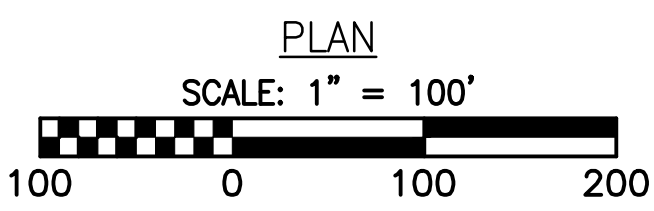
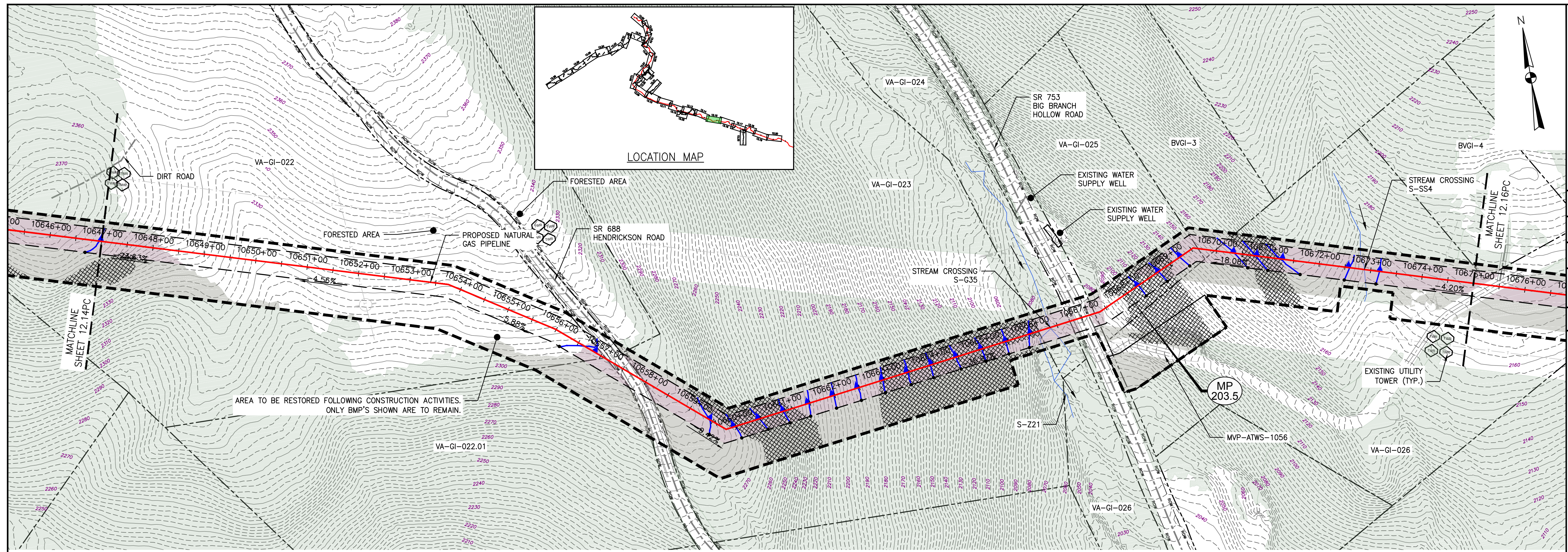
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
 MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.14PC OF 12.33PC	REVISION



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

NOTES:

1. 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.
2. 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
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

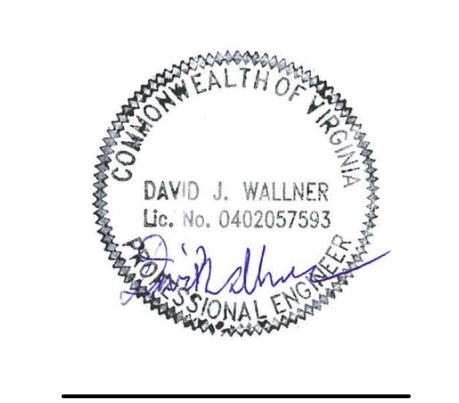
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

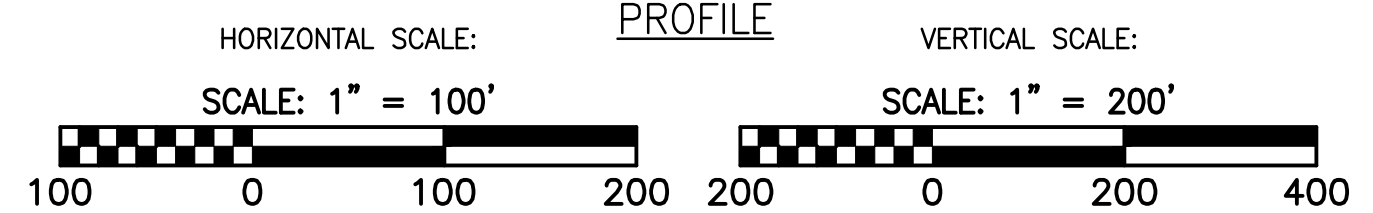
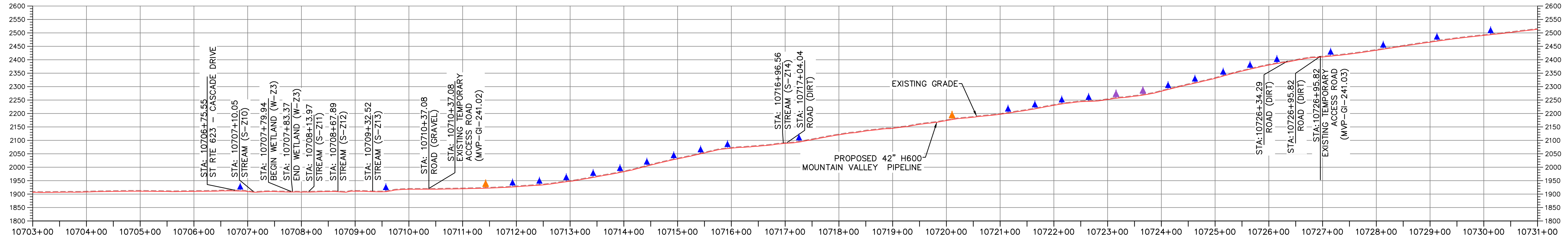
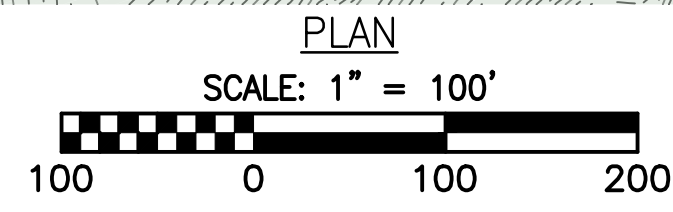
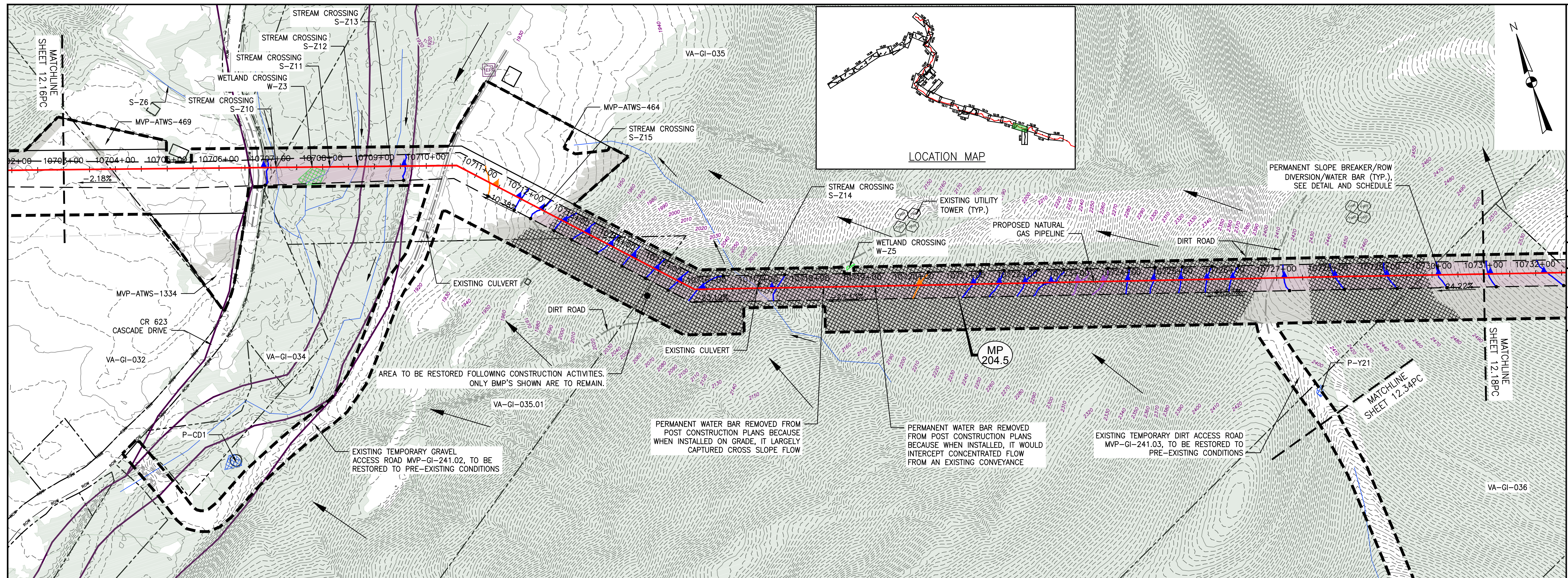
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

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



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.15PC OF 12.33PC	REVISION



LEGEND

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

—▲—	STEEP SLOPE AREA
—▲—	EXISTING FOREST
—▲—	PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
—▲—	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

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
8	03/21/18	KAL	DW	REVISIONS:
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

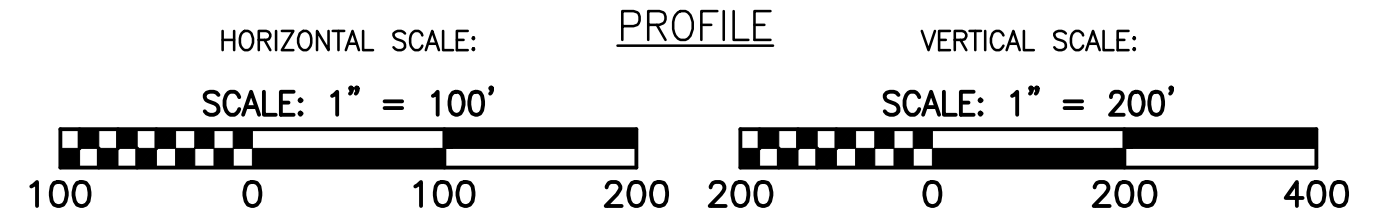
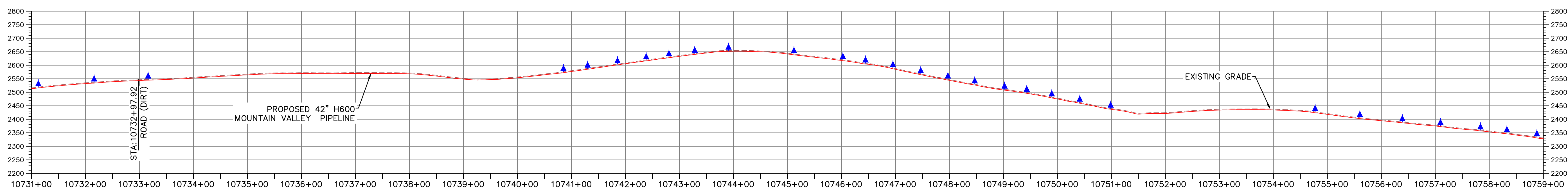
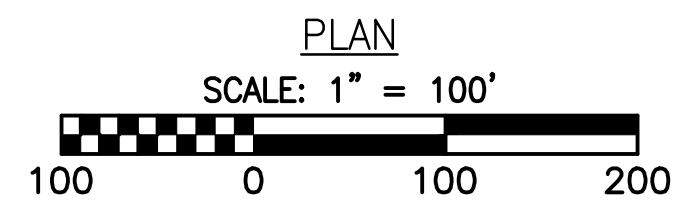
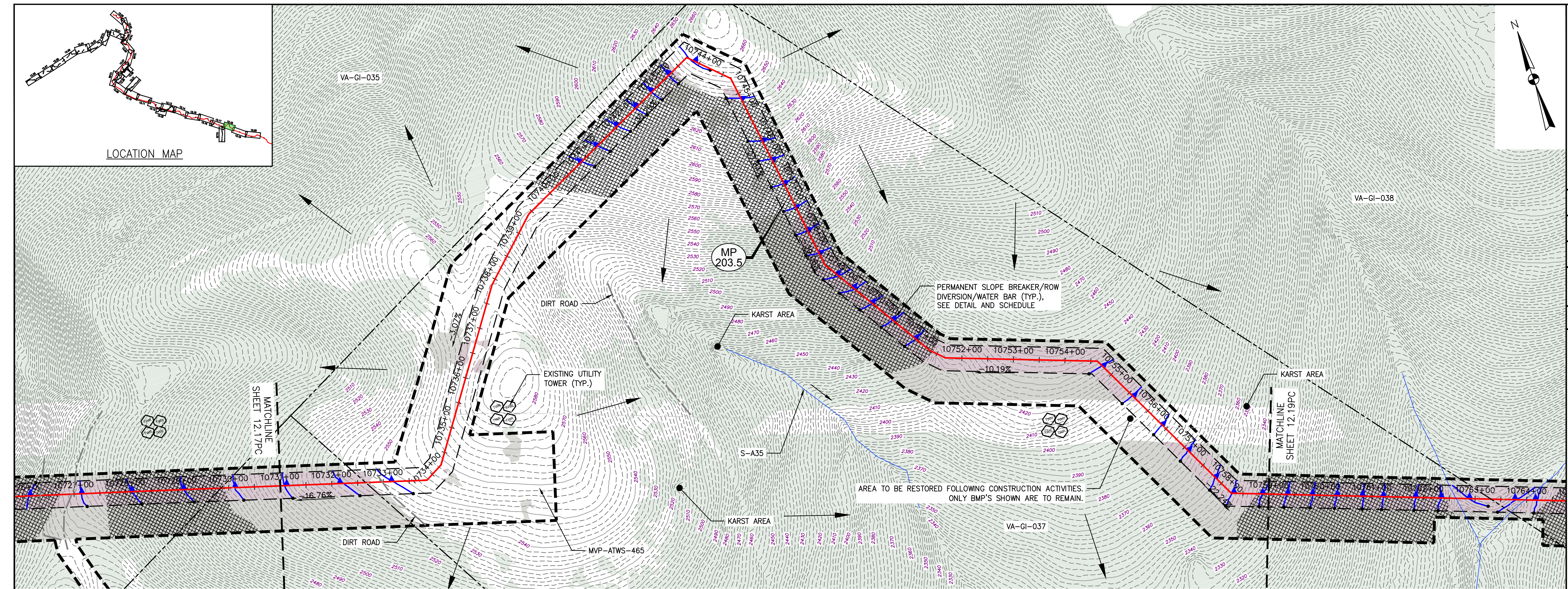
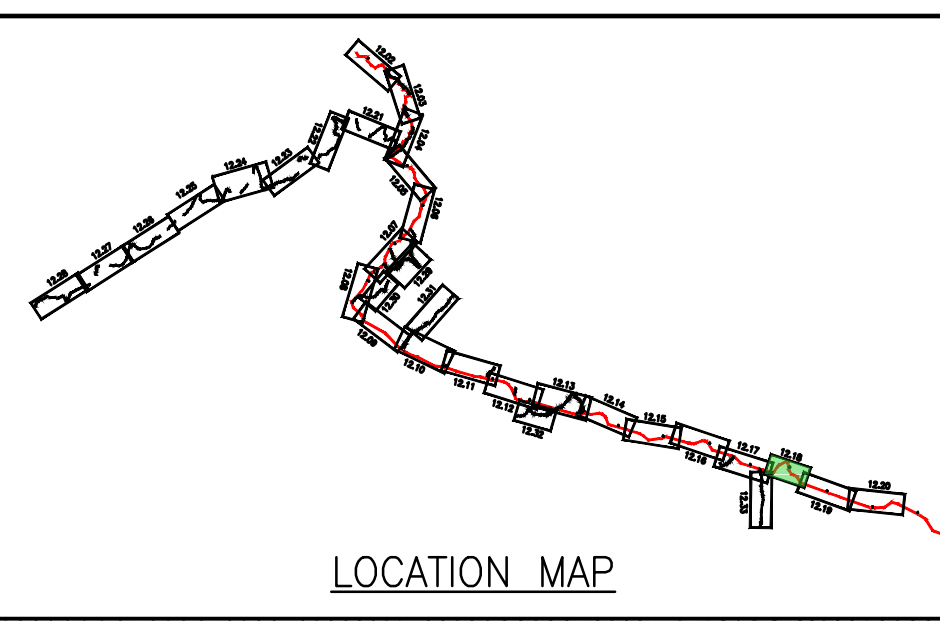
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.17PC OF	12.33PC



LEGEND

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

NOTES:

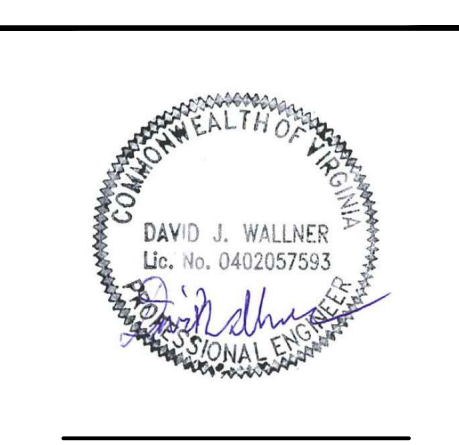
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	REVISIONS:
7	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADED COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADED COMMENTS

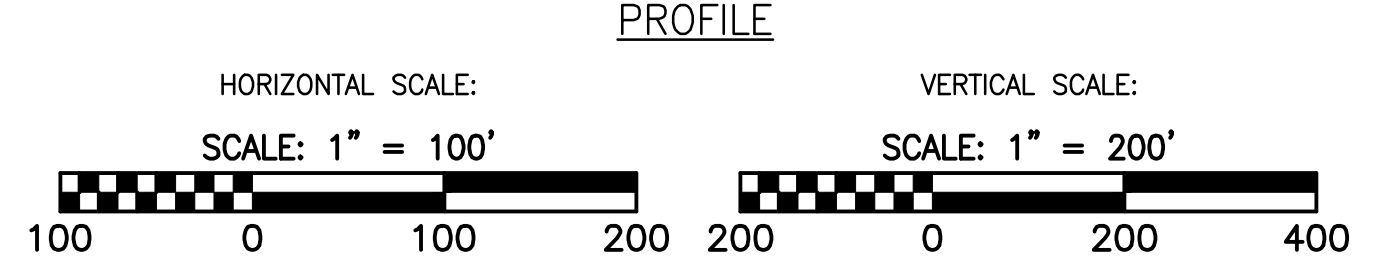
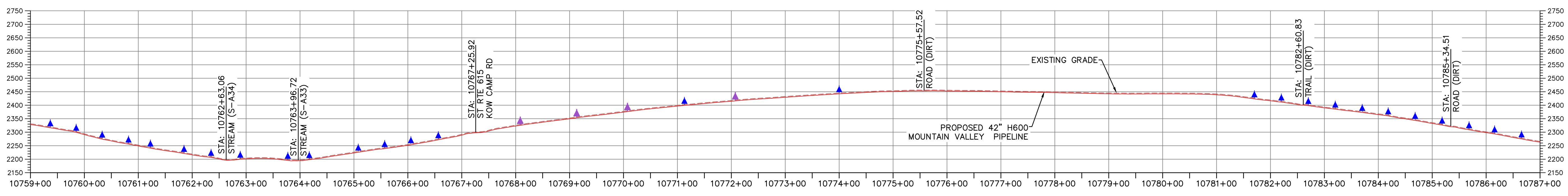
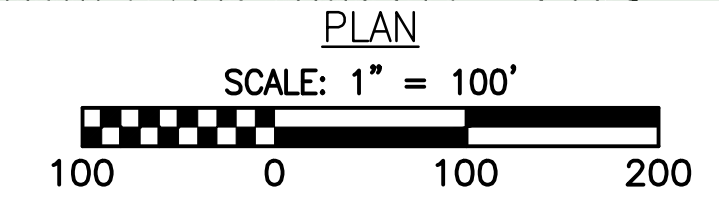
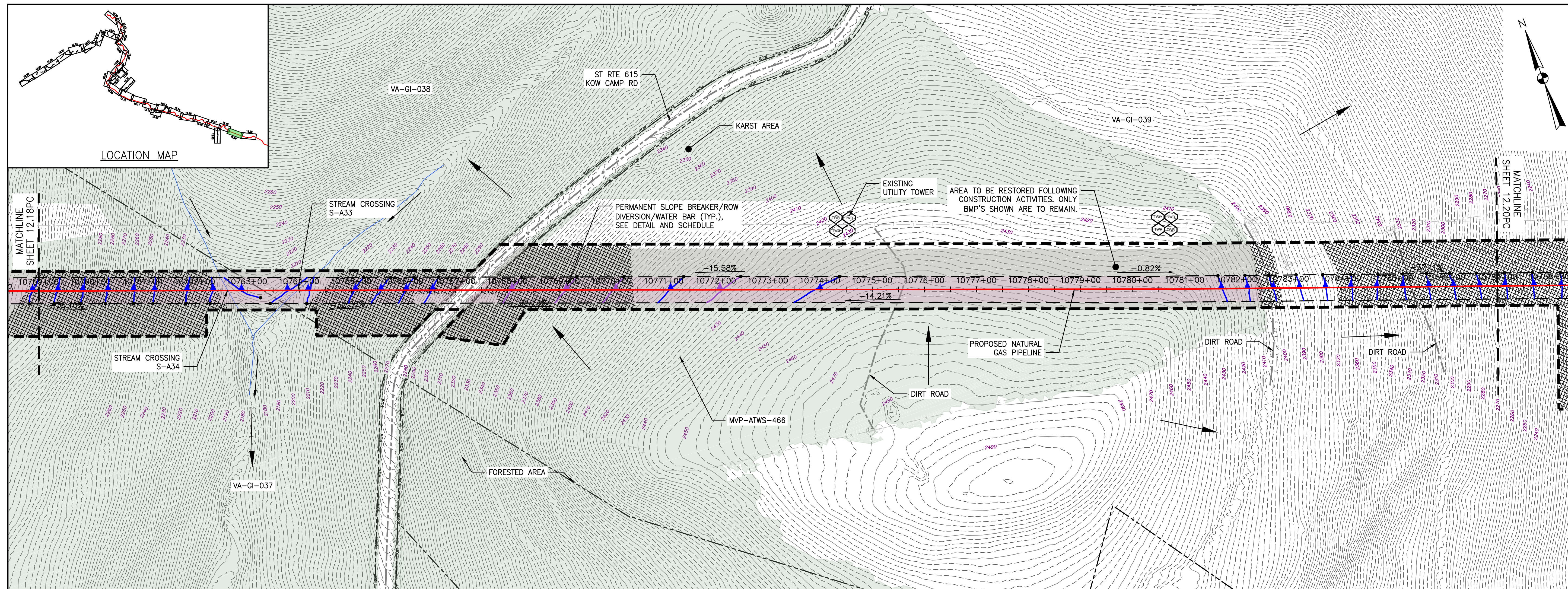
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.18PC OF 12.33PC	

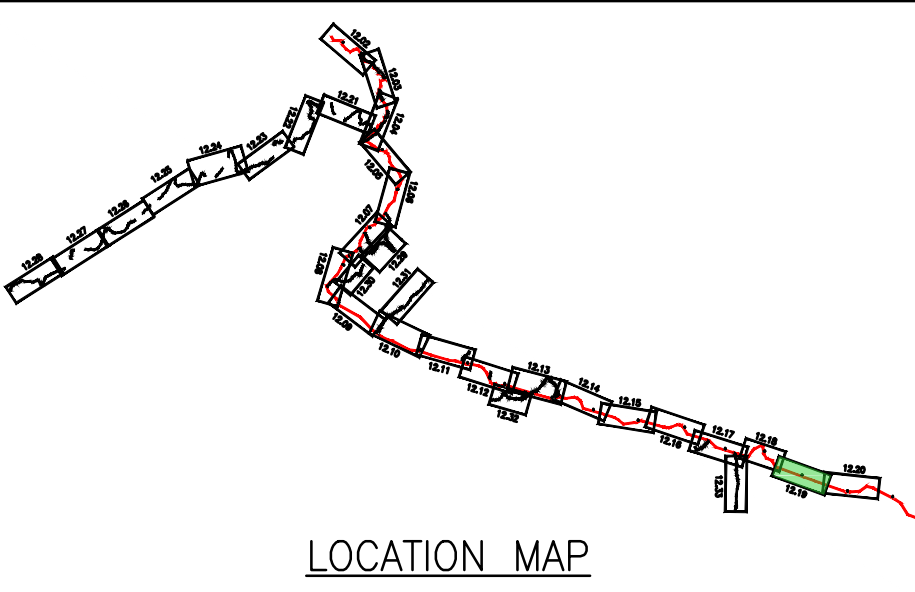


LEGEND

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

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.

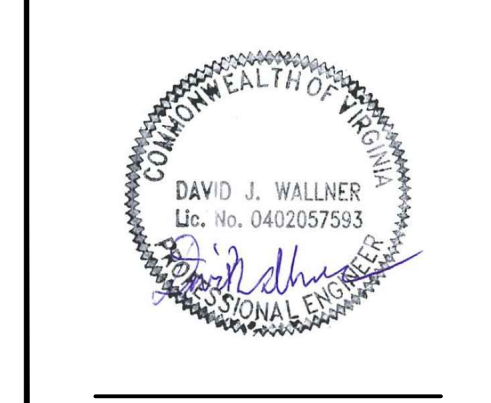


REVISIONS:	NO.:	DATE:	CHKD.:	APPD.:	DESCRIPTION:
8	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

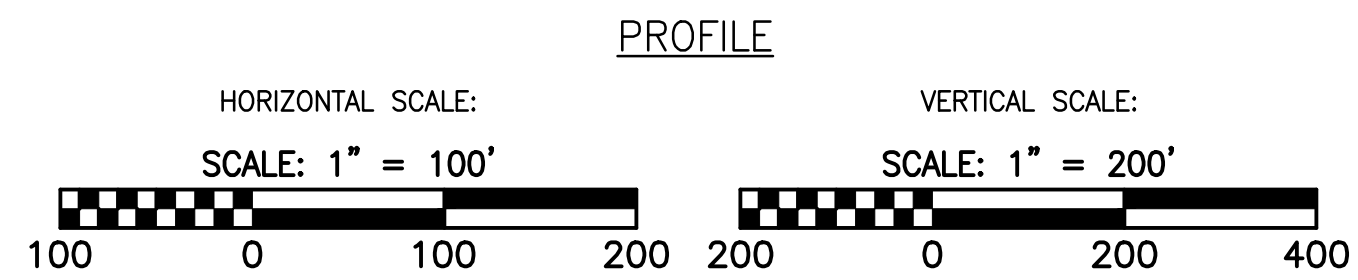
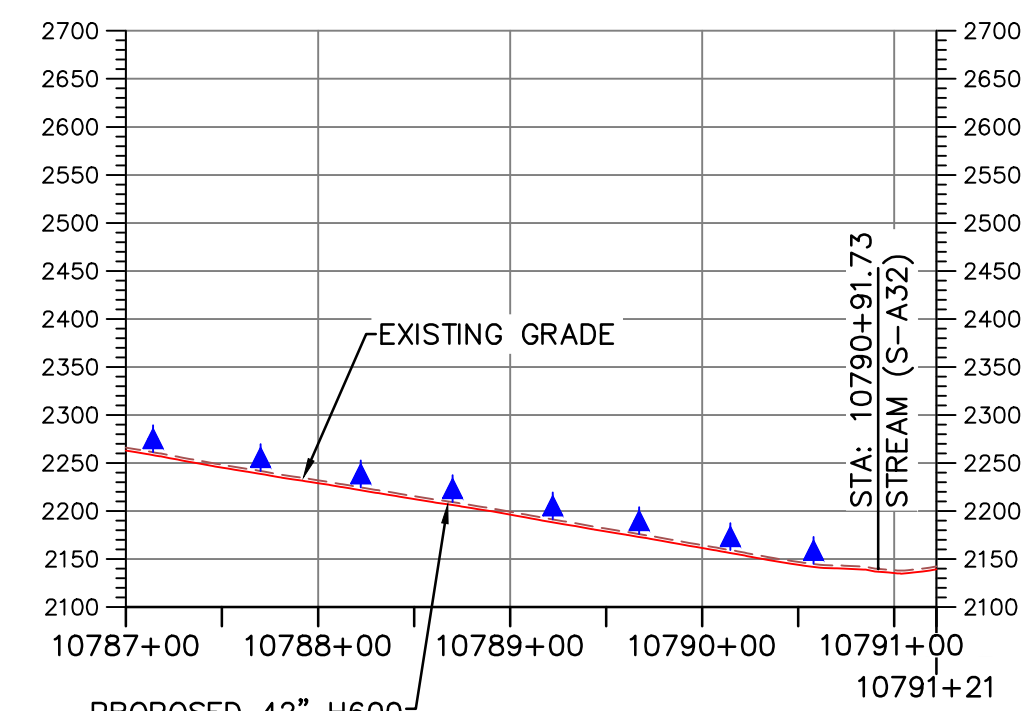
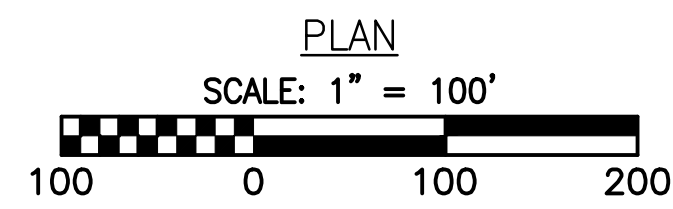
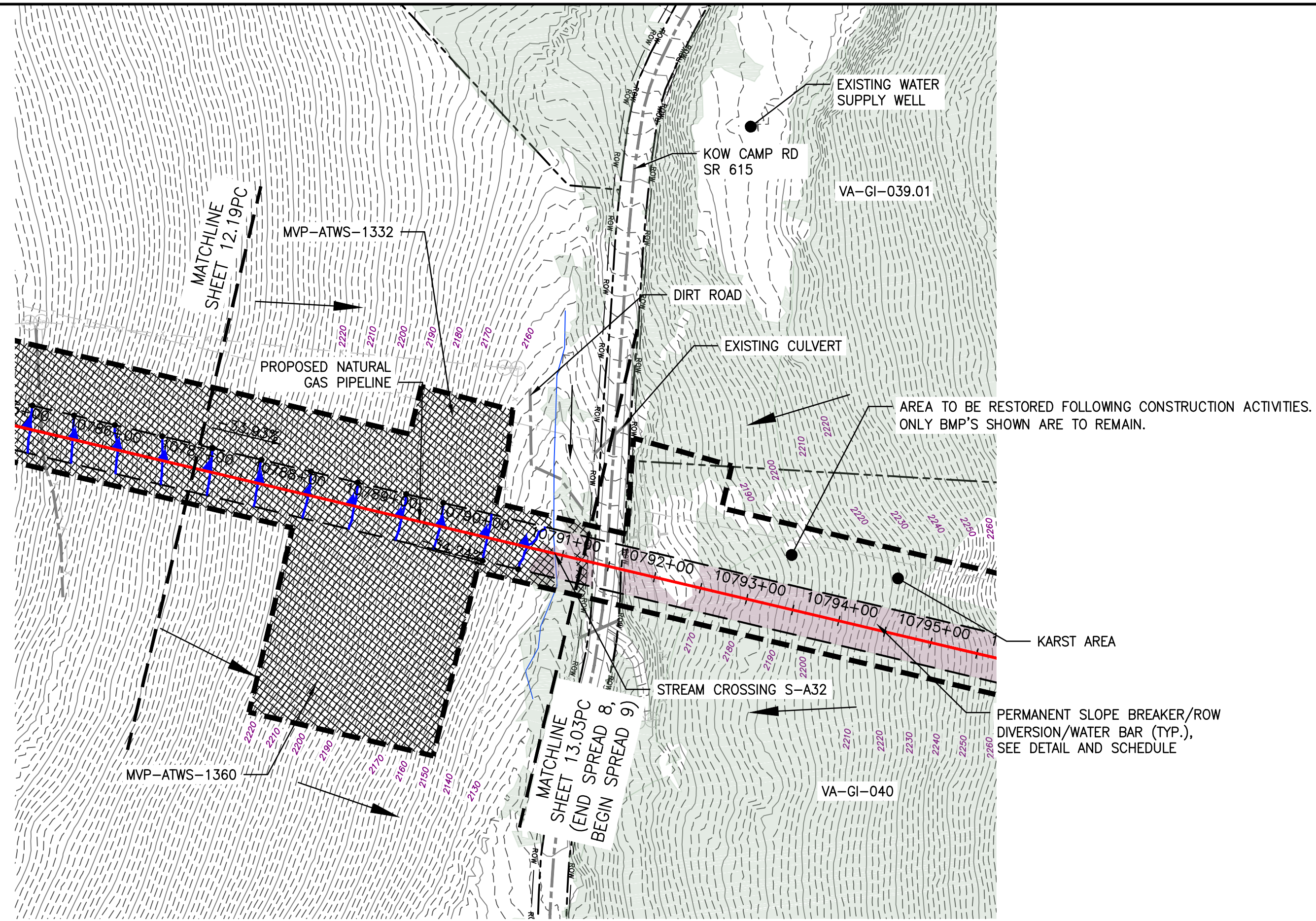
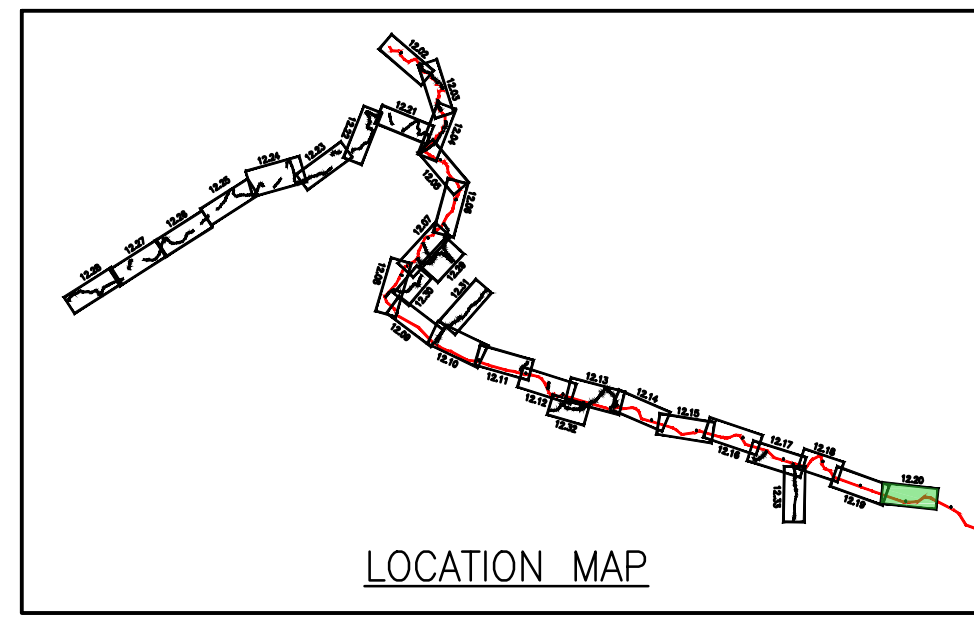
Mountain Valley PIPELINE
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.19PC OF 12.33PC	REVISION



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

NOTES:

1. 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.
2. 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.

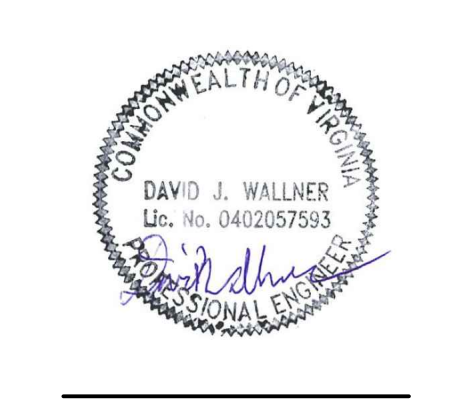


NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

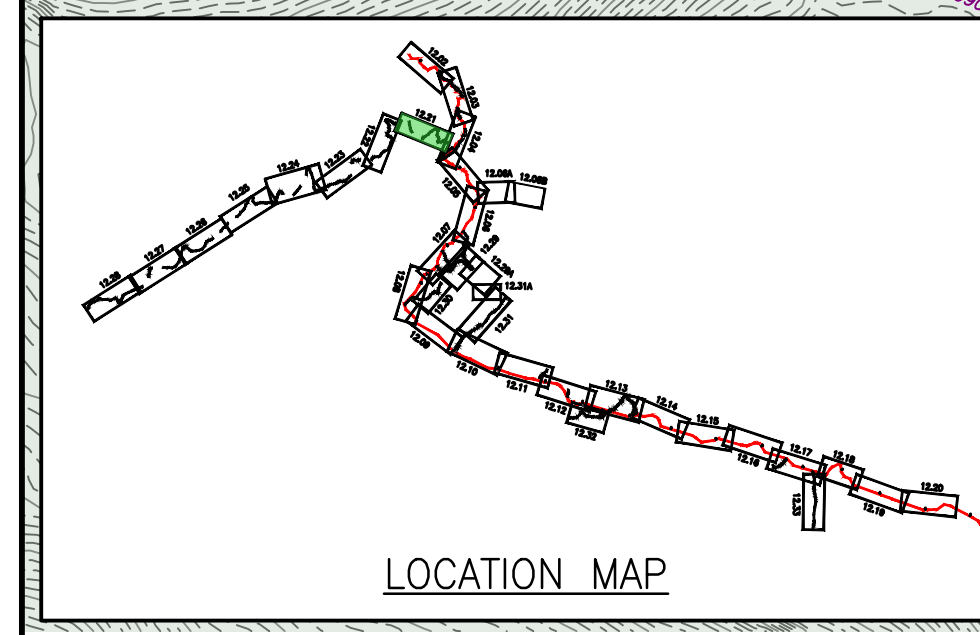
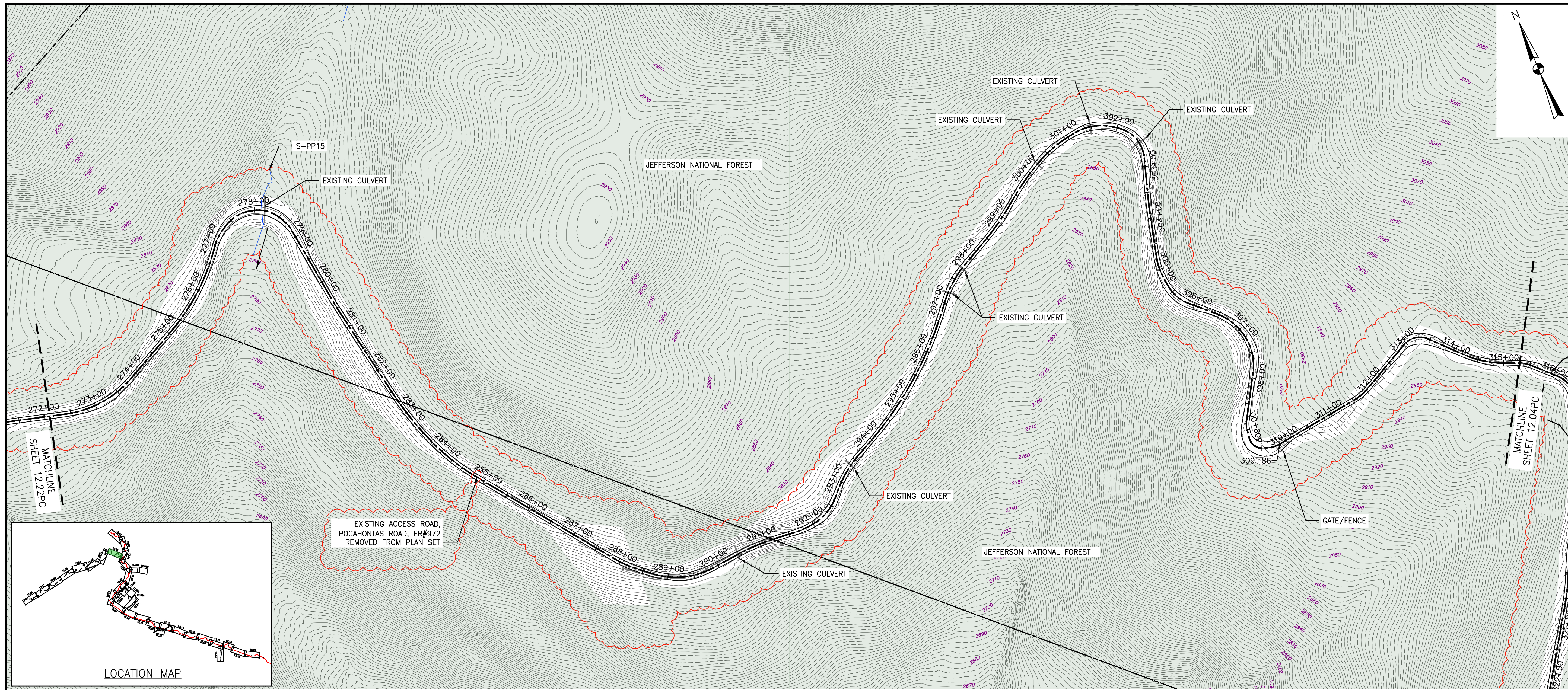
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

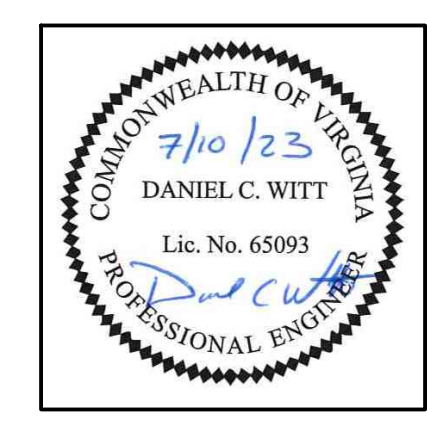
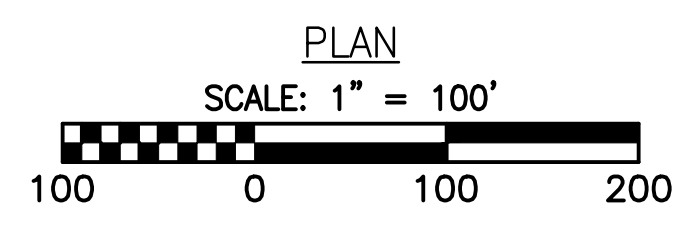
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.20PC OF 12.33PC	



EXISTING ACCESS ROAD, POCAHONTAS ROAD, FR#972 REMOVED FROM PLAN SET



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

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

NOTES:

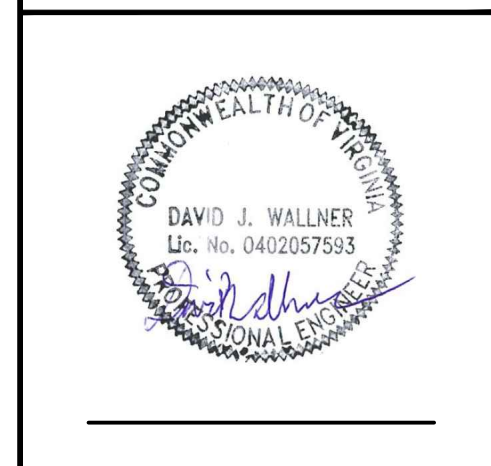
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
1	07/10/23	IHH	DCW		REDLINE TO REMOVE POCAHONTAS ROAD
2	03/21/18	KAL	RE	DW	ADDRESS VADO COMMENTS
3	03/16/18	KAL	RE	DW	ADDRESS VADO COMMENTS
4	02/16/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	11/28/17	KAL	RE	DW	ADDRESS VADO COMMENTS

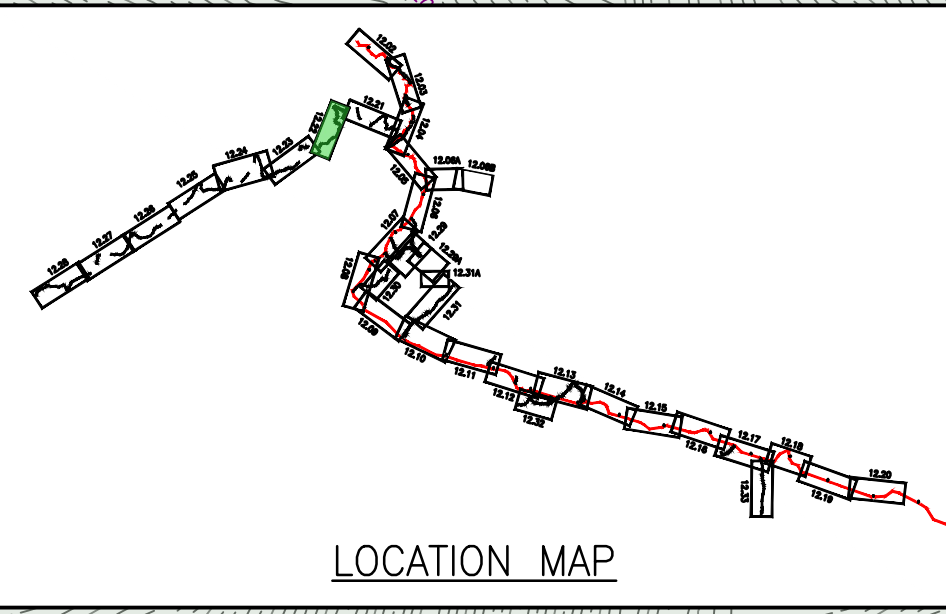
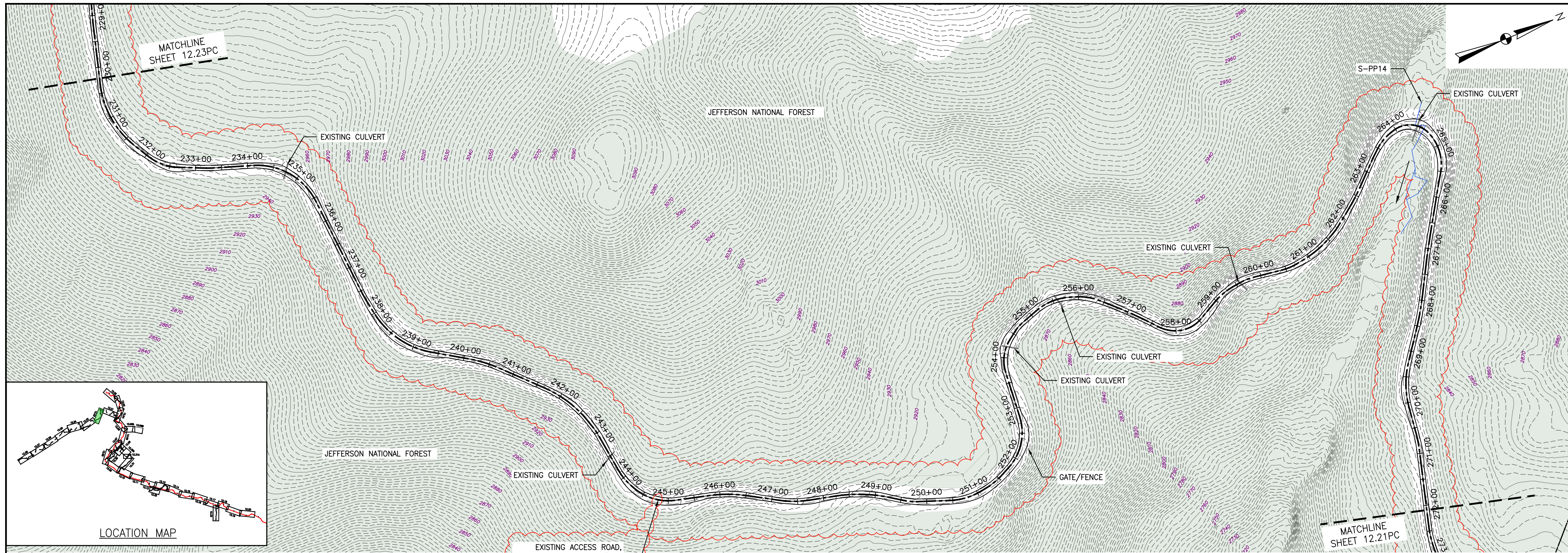
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

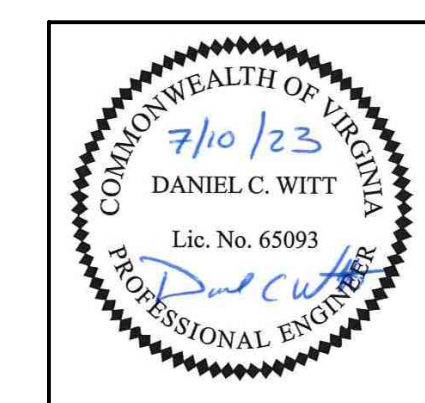
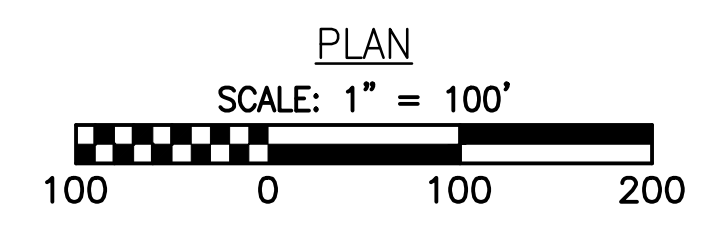
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.21PC OF 12.33PC	



EXISTING ACCESS ROAD,
POCAHONTAS ROAD, FR#972
REMOVED FROM PLAN SET



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

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

NOTES:

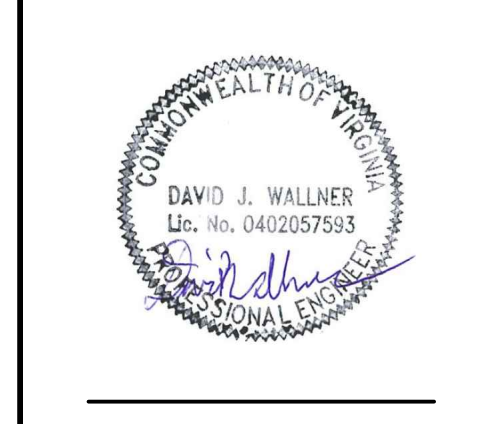
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION
1	07/10/23	IHH	RE		REDLINE TO REMOVE POCAHONTAS ROAD
2	07/10/23	DCW	RE		ADDRESS VAREO COMMENTS
3	07/10/23	IHH	RE		ADDRESS VAREO COMMENTS
4	07/10/23	IHH	RE		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	07/10/23	IHH	RE		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	07/10/23	IHH	RE		ADDRESS VAREO COMMENTS
7	07/10/23	IHH	RE		ADDRESS VAREO COMMENTS
8	07/10/23	IHH	RE		ADDRESS VAREO COMMENTS

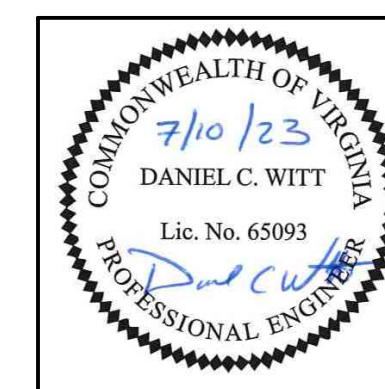
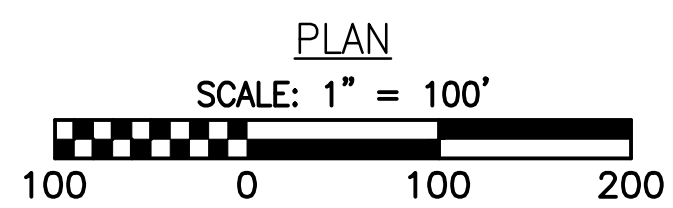
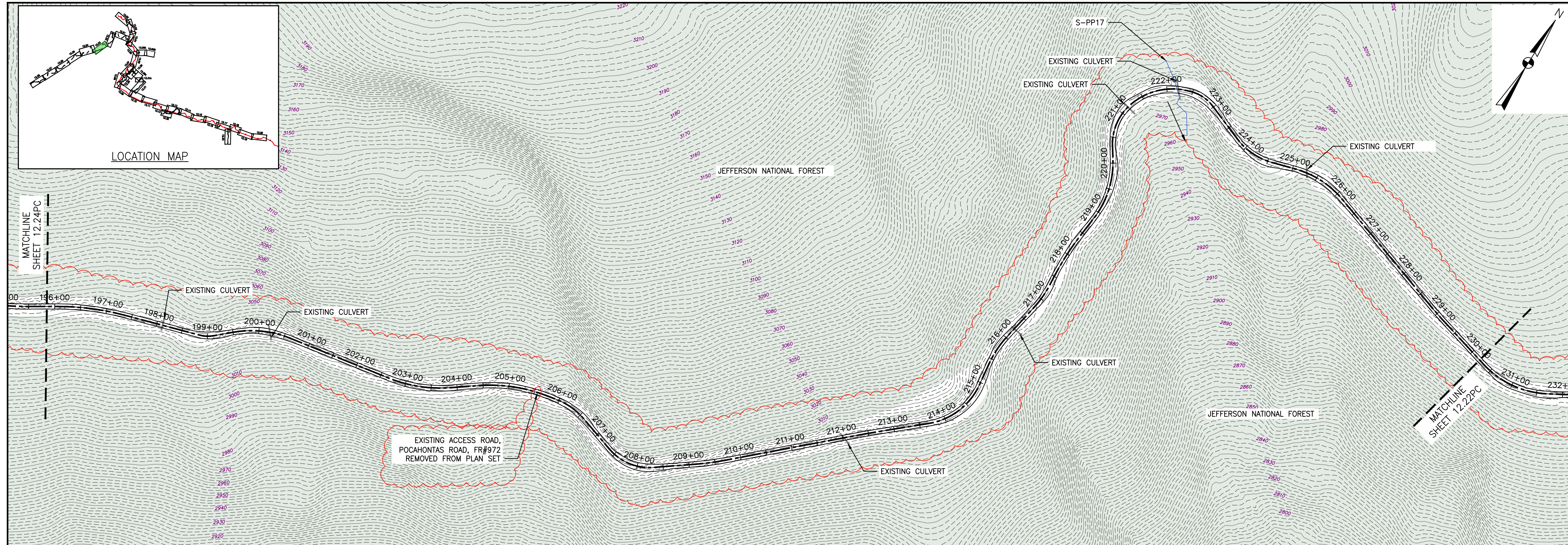
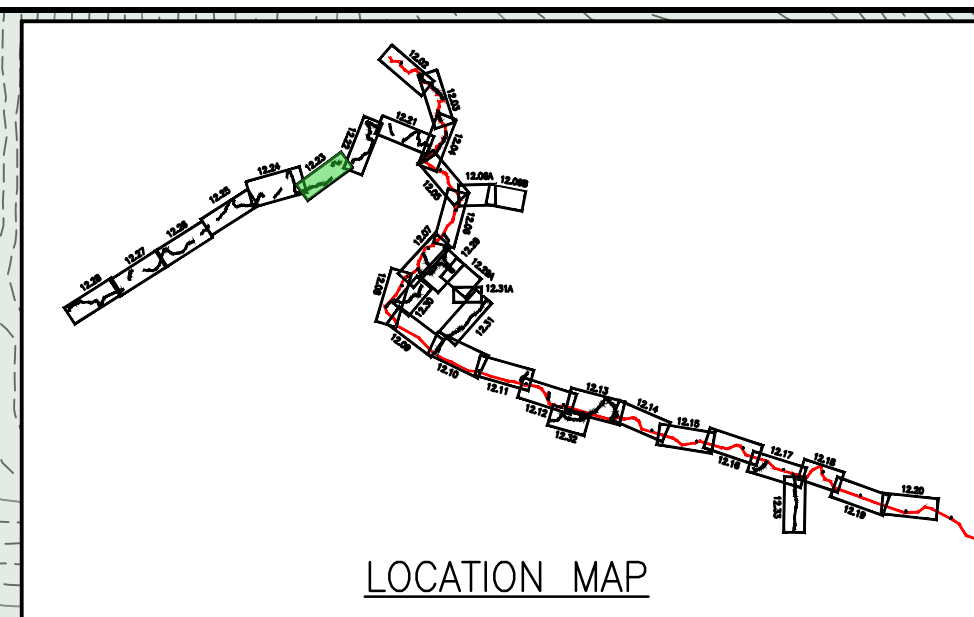
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.22PC OF 12.33PC	



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

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

NOTES:

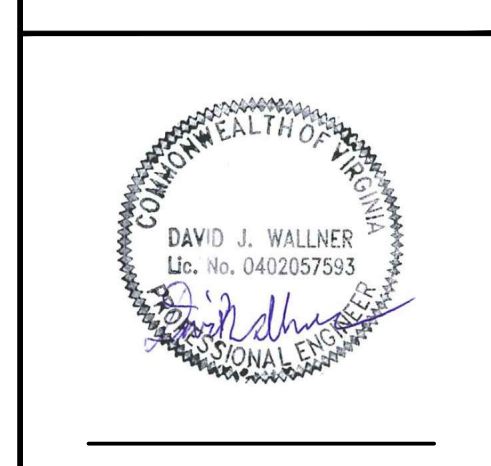
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
1	07/10/23	IHH	DCW		REDLINE TO REMOVE POCAHONTAS ROAD
2	08/03/21	KAL	RE	DW	ADDRESS VAREO COMMENTS
3	03/16/18	KAL	RE	DW	ADDRESS VAREO COMMENTS
4	02/16/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	11/28/17	KAL	RE	DW	ADDRESS VAREO COMMENTS

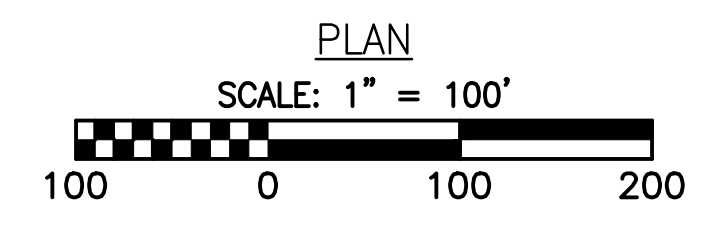
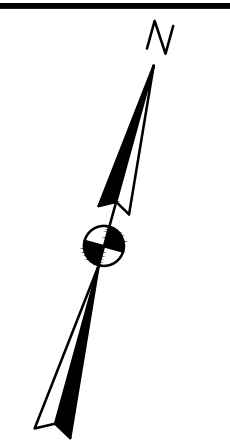
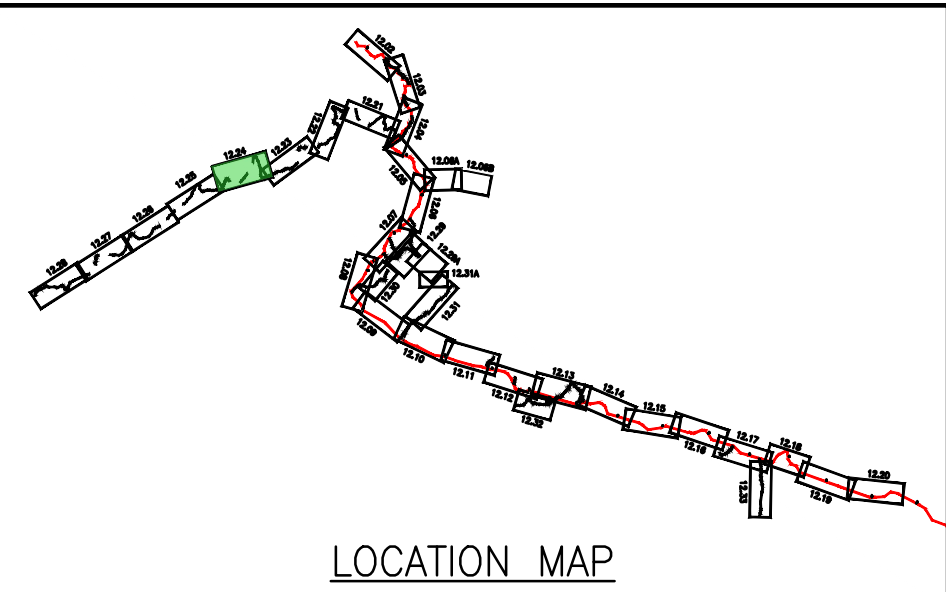
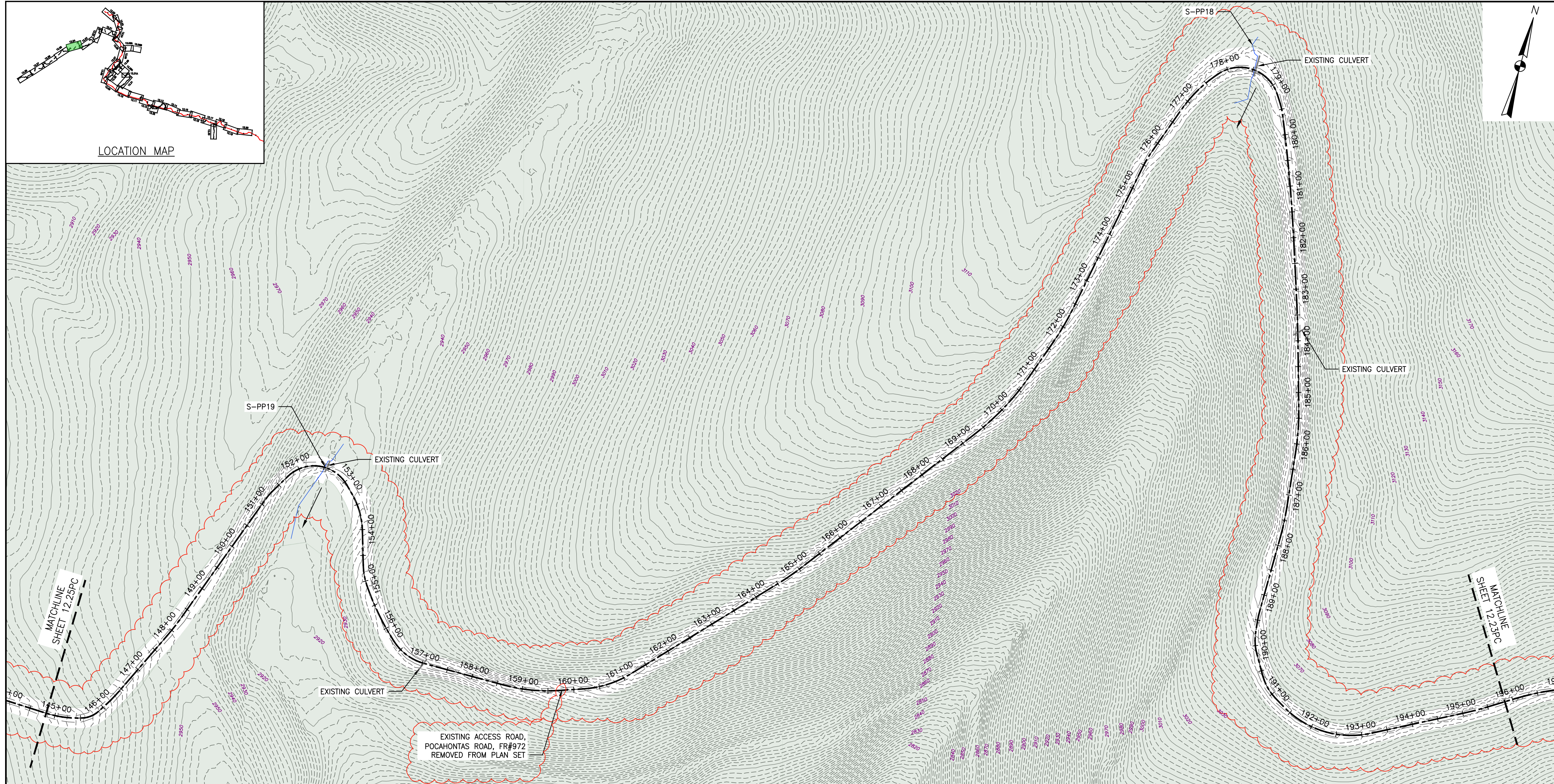
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
 MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
 MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

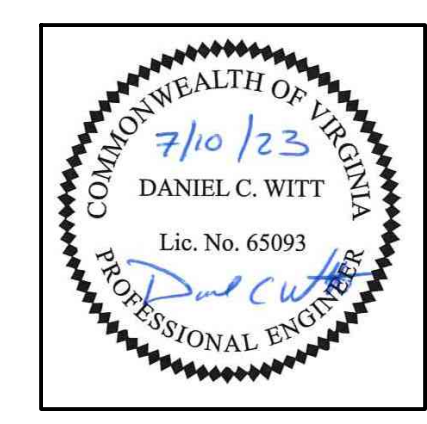


DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.23PC OF 12.33PC	



LEGEND

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



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

- 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	APPD.	CHKD.	APPD.	DESCRIPTION
1	07/10/23	IHH	DCW		REDLINE TO REMOVE POCAHONTAS ROAD
2	03/21/18	KAL	DW		ADDRESS VADO COMMENTS
3	03/16/18	KAL	DW		ADDRESS VADO COMMENTS
4	02/16/18	KAL	RE		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	11/28/17	KAL	DW		ADDRESS VADO COMMENTS

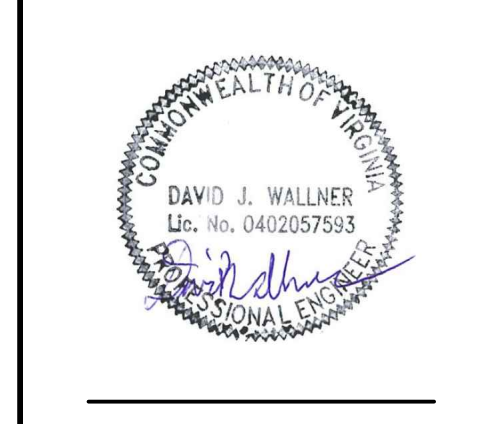
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA

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

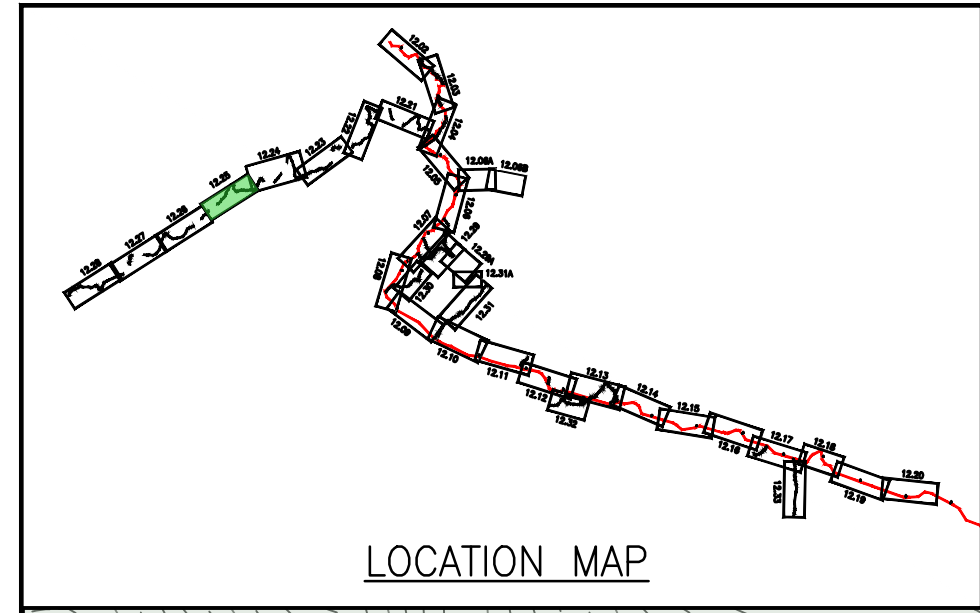
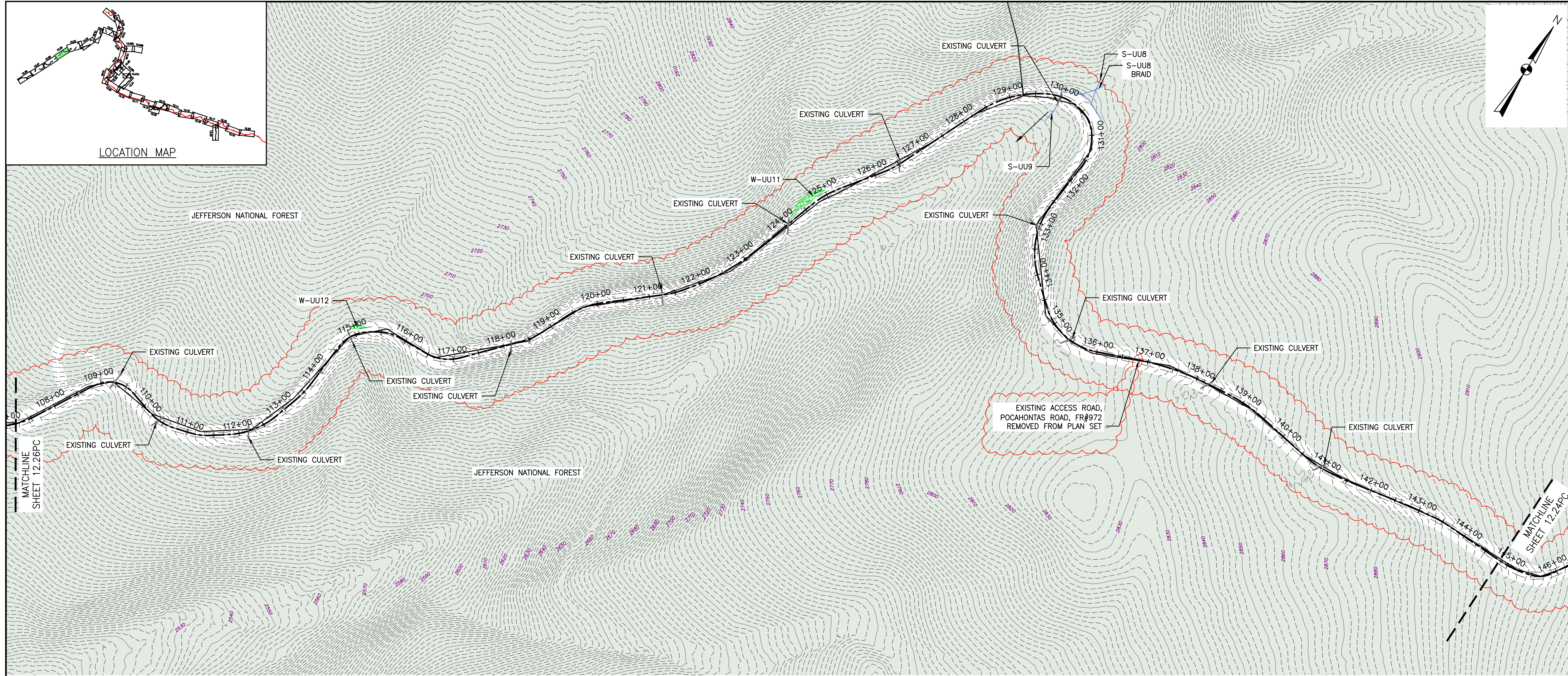
TETRA TECH
complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.24PC OF 12.33PC	



NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/10/23	JUZ	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
3	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
4	07/10/23	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	07/10/23	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
7	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
8	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS

Mountain Valley Pipeline
 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

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

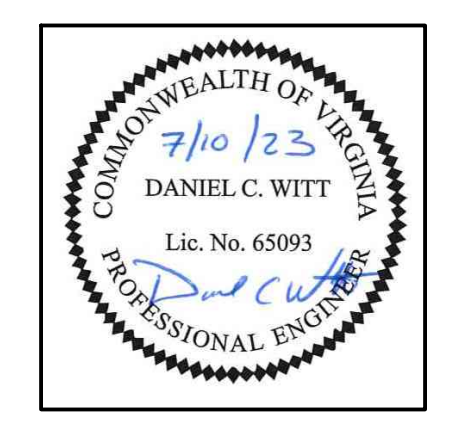
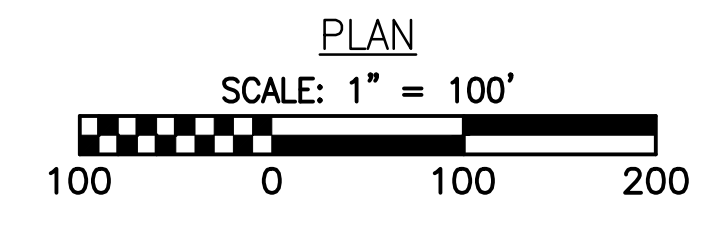
POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

COMMONWEALTH OF VIRGINIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JUZ
 CHECKED BY: IHH
 APPROVED BY: DCW
 DATE: 07/10/2023
 SCALE: AS SHOWN
 SHT. NO. 12.25PC OF 12.33PC

LEGEND

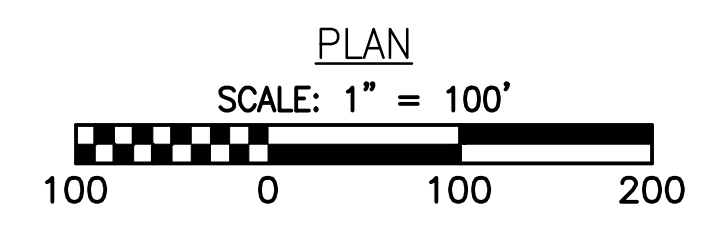
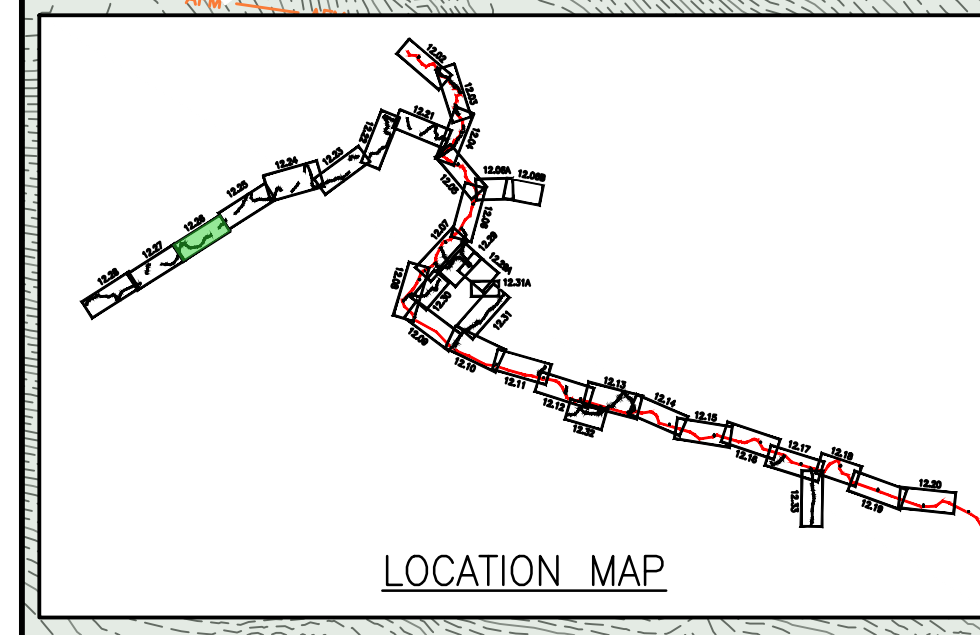
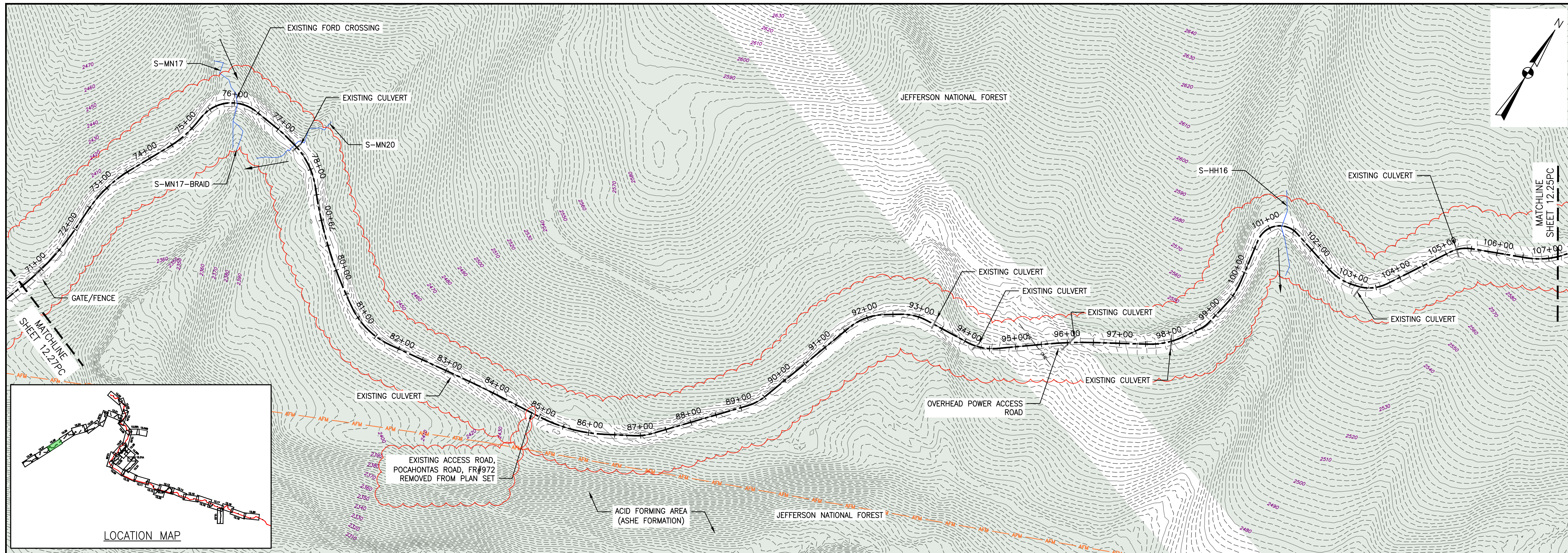
—	EXISTING CULVERT	—>—>—>	PROPOSED LEVEL SPREADER DIVERSION	→	STREAM FLOW DIRECTION	▨	STEEP SLOPE AREA
—	STREAM	+++++	PROPOSED LEVEL SPREADER	—▲—	FEMA 100 YEAR FLOODPLAIN	▨	EXISTING FOREST
- - -	EXISTING PROPERTY LINE	—▲—	PROPOSED ACCESS ROAD CENTERLINE	—▲—	PERMANENT WATER BAR 10' END TREATMENT	▨	PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- - -	EXISTING STATE LINE	—▲—	PROPOSED PIPELINE	—▲—	PERMANENT WATER BAR 15' END TREATMENT	▨	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
- - -	EXISTING COUNTY LINE	—▲—	SURFACE WATER FLOW DIRECTION	—▲—	PERMANENT WATER BAR 20' END TREATMENT		
- - -	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	▲	▲	▲			
▨	POND	▲	▲	▲			
▨	WETLAND	▲	▲	▲			
▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)	▲	▲	▲			
●	APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)	▲	▲	▲			



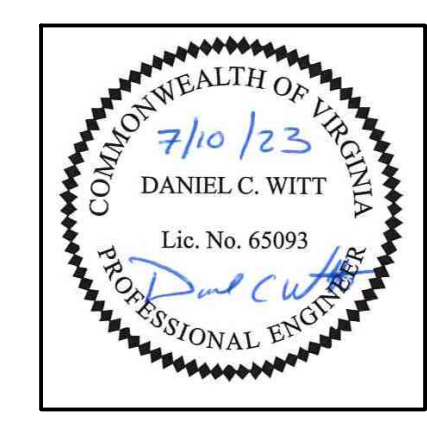
THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

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.



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 07-10-23

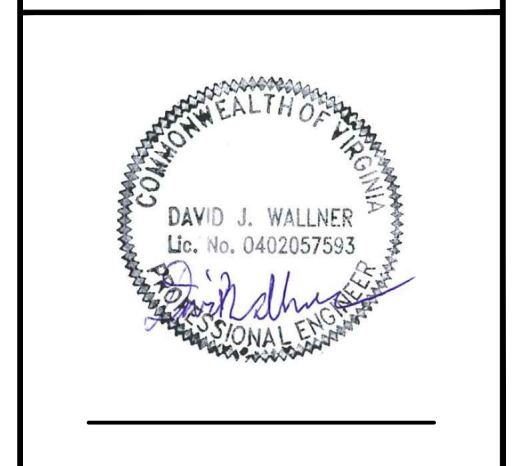
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
 - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/10/23	JUZ	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
3	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
4	07/10/23	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	07/10/23	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
7	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
8	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS

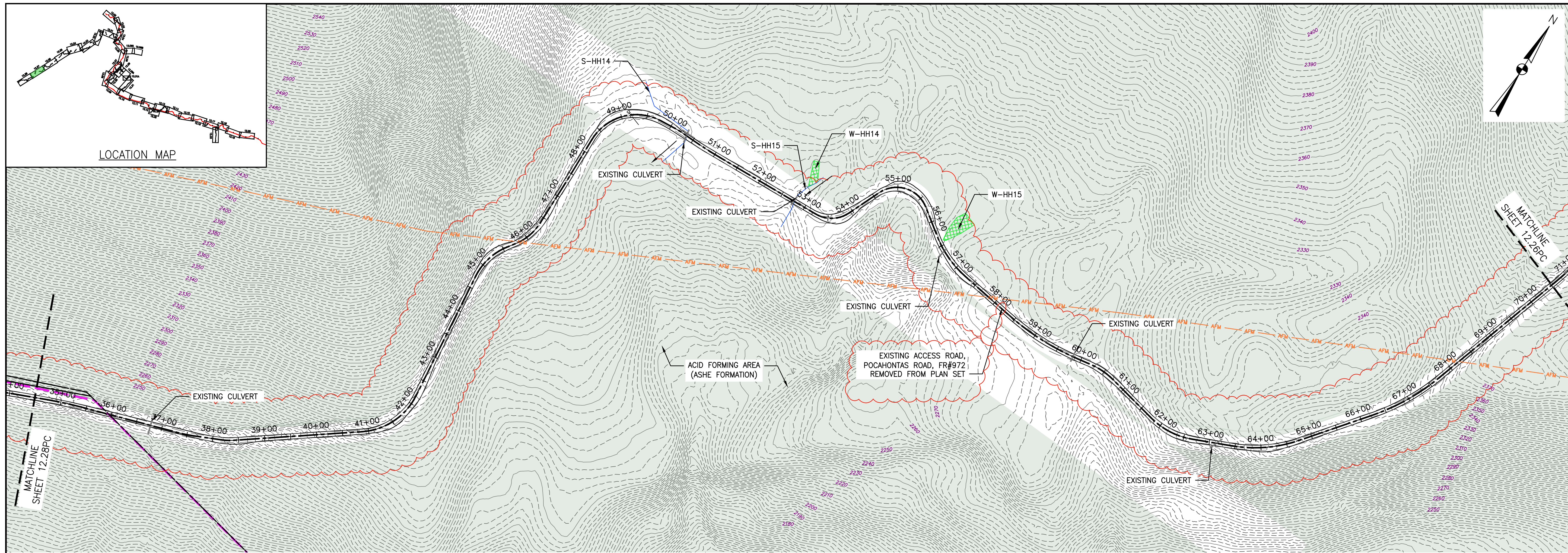
	POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC 2200 ENERGY DRIVE CANONSBURG, PA 15317	REVISIONS:

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

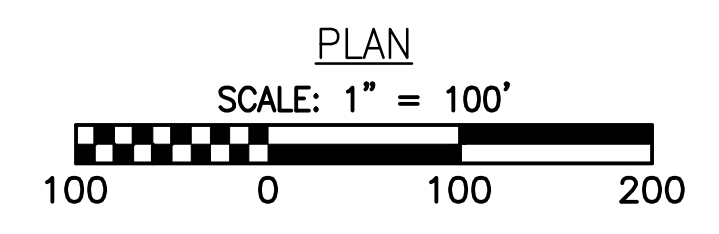
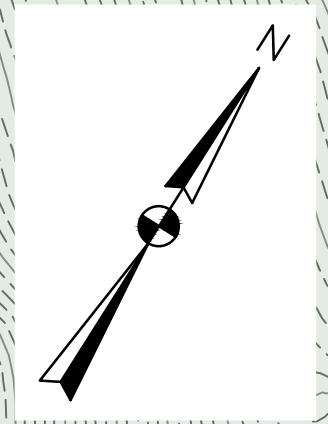
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.26PC OF 12.33PC	REVISION

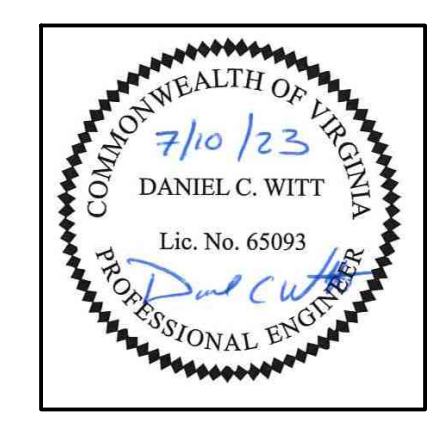


LOCATION MAP



LEGEND

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



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-10-23

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	BY	CHKD.	APPD.	DESCRIPTION
1	07/10/23	JUZ	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	08/02/21	KAL	RE	DW	ADDRESS VAREO COMMENTS
3	03/16/18	KAL	RE	DW	ADDRESS VAREO COMMENTS
4	02/16/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	11/28/17	KAL	RE	DW	ADDRESS VAREO COMMENTS

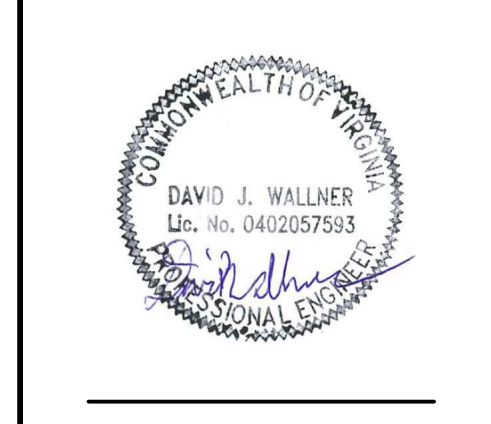
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

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

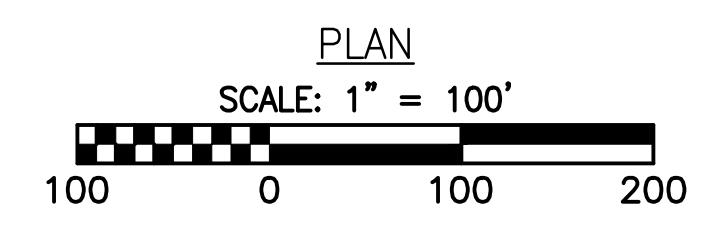
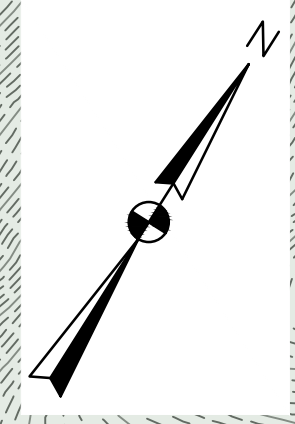
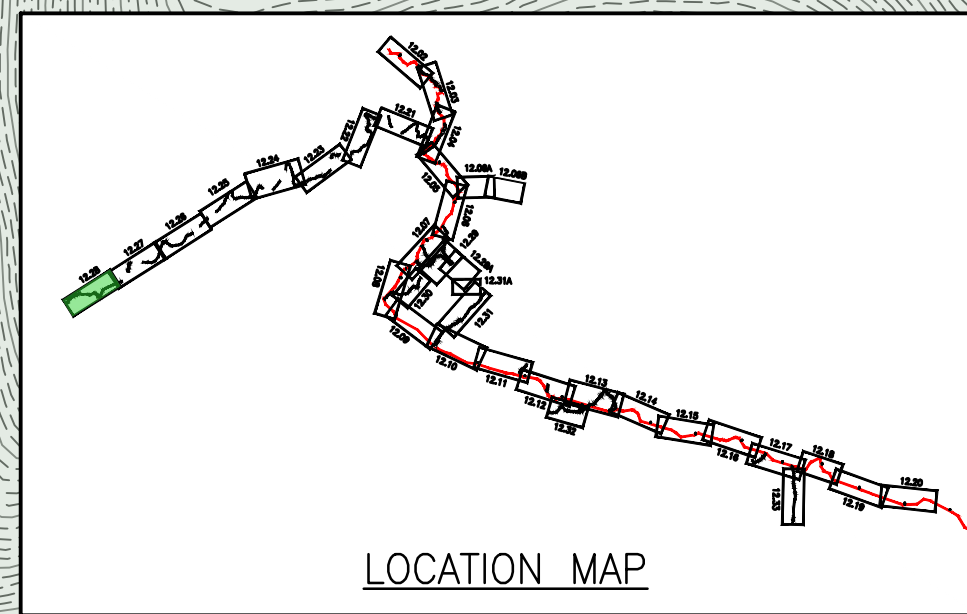
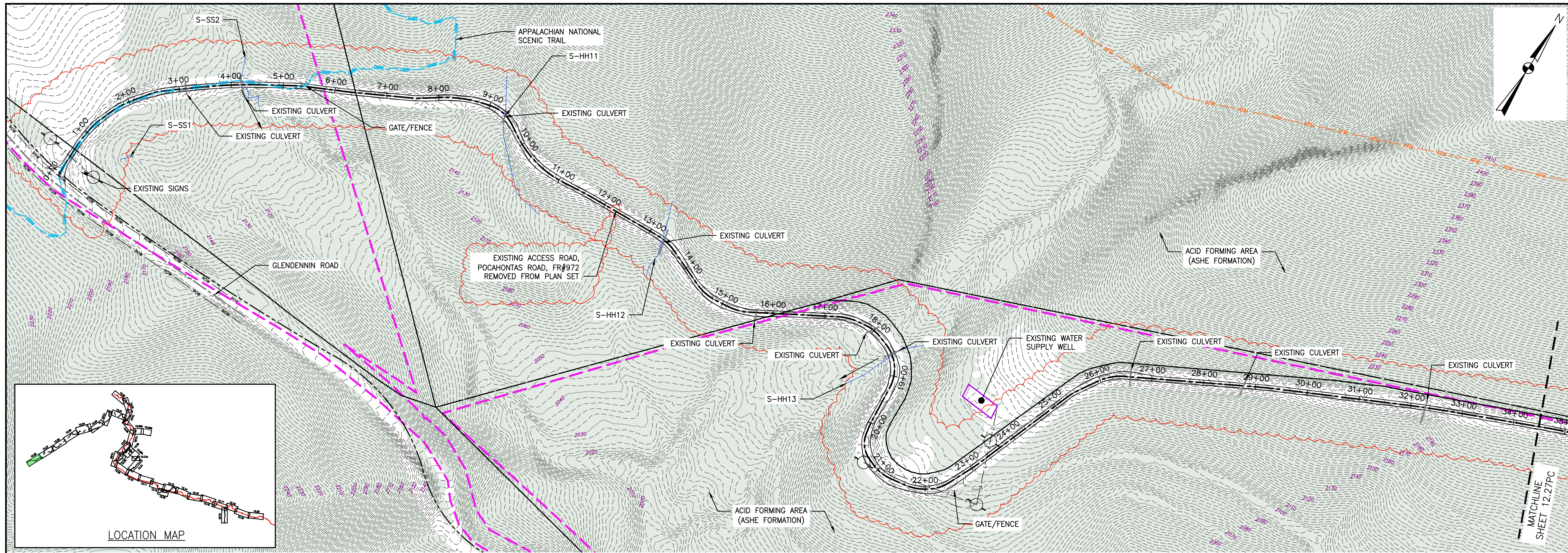
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

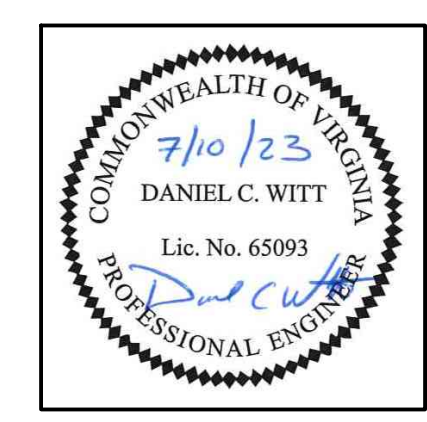
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.27PC OF 12.33PC	REVISION



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 07-10-23

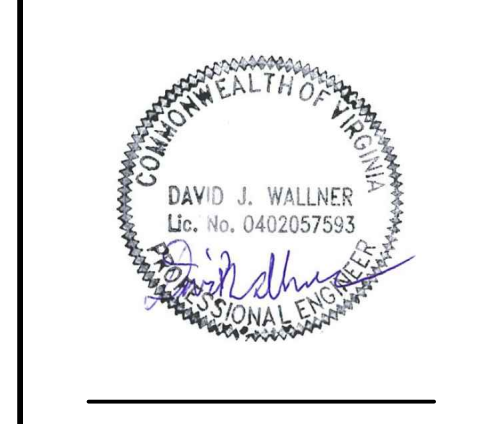
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
 - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/10/23	JUZ	IHH	REDLINE TO REMOVE POCAHONTAS ROAD
2	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
3	07/10/23	KAL	DW	ADDRESS VAREO COMMENTS
4	07/10/23	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	07/10/23	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	07/10/23	KAL	RE	ADDRESS VAREO COMMENTS
7	07/10/23	KAL	DW	ADDRESS VAREO COMMENTS

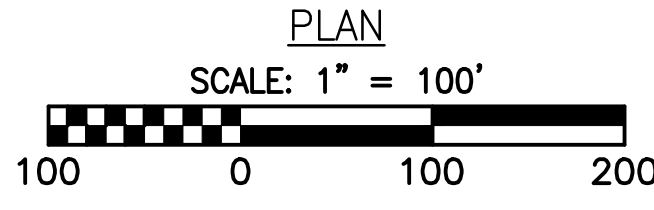
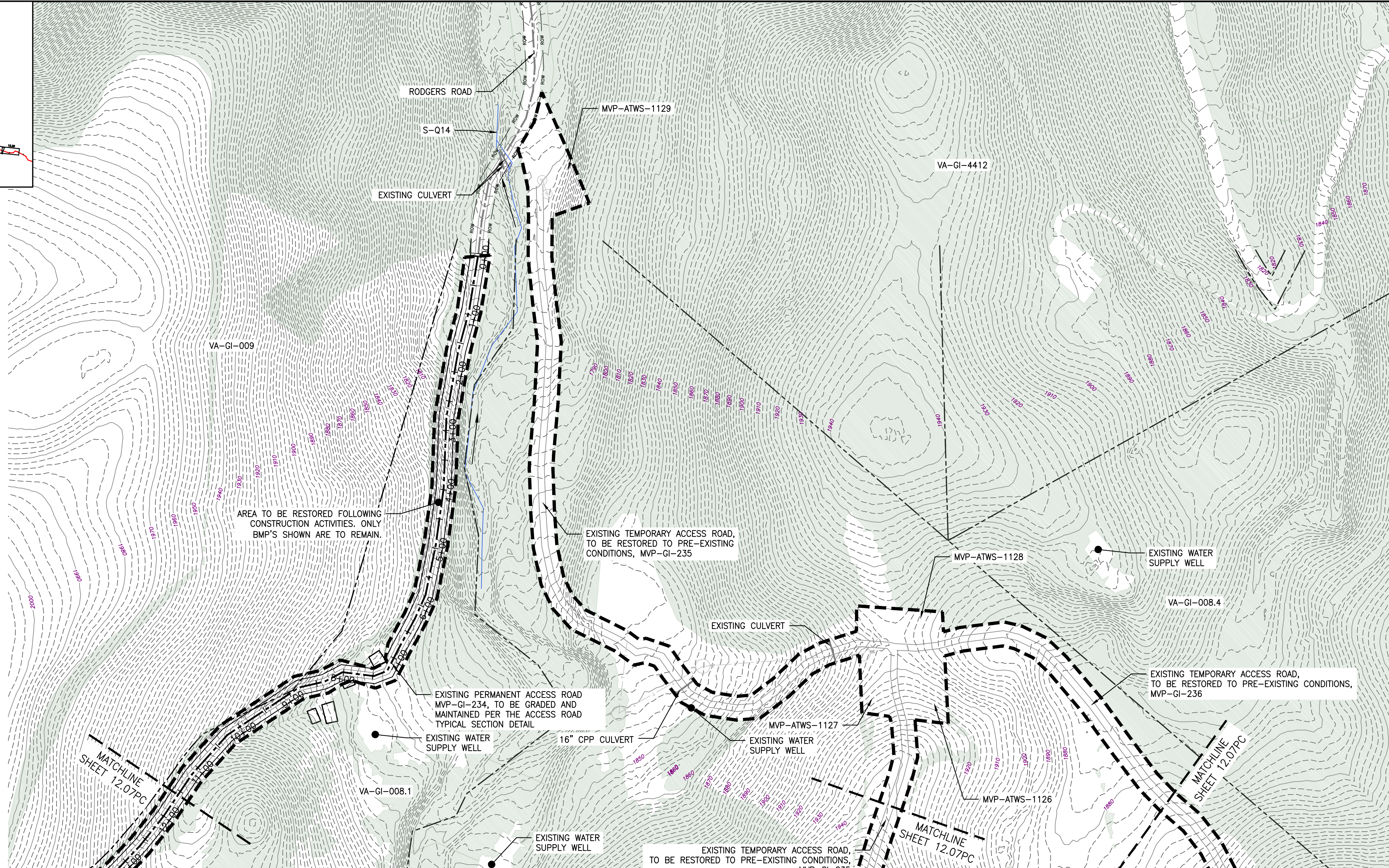
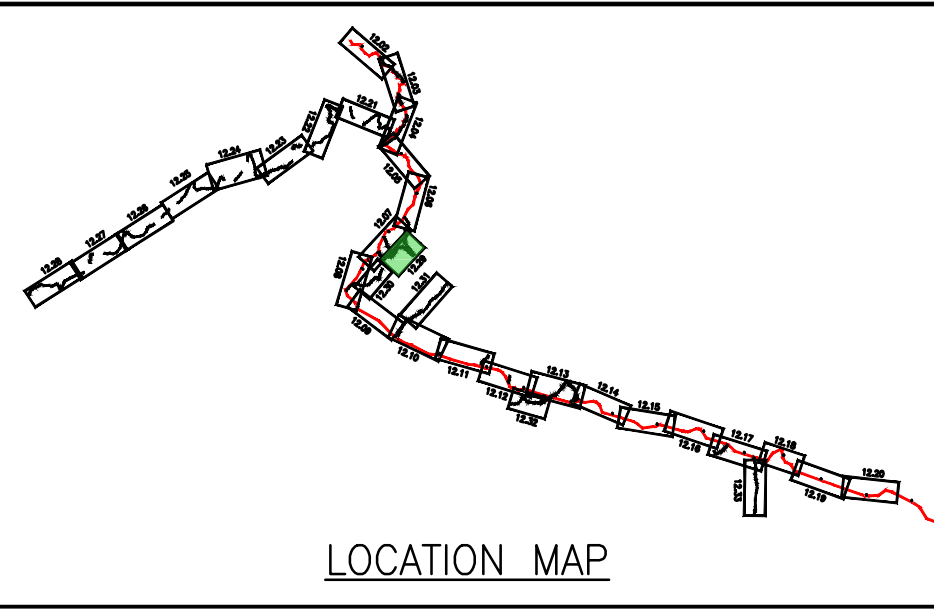
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/10/2023
SCALE:	AS SHOWN
SHT. NO. 12.28PC OF 12.33PC	REVISION



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

NOTES:

1. 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.
2. 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
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

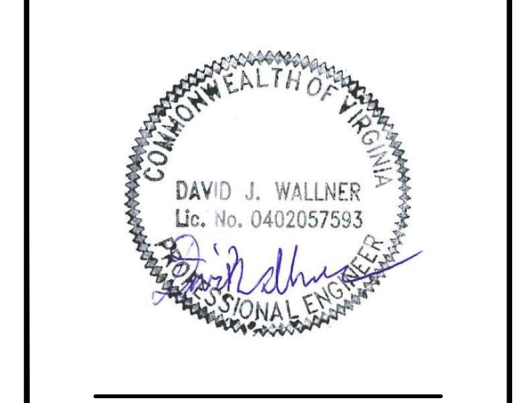
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

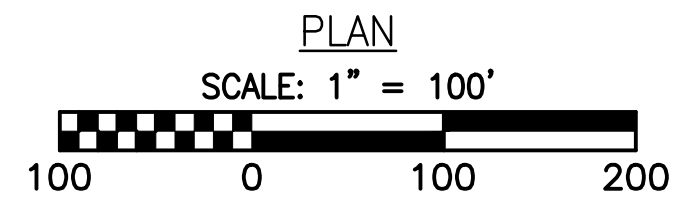
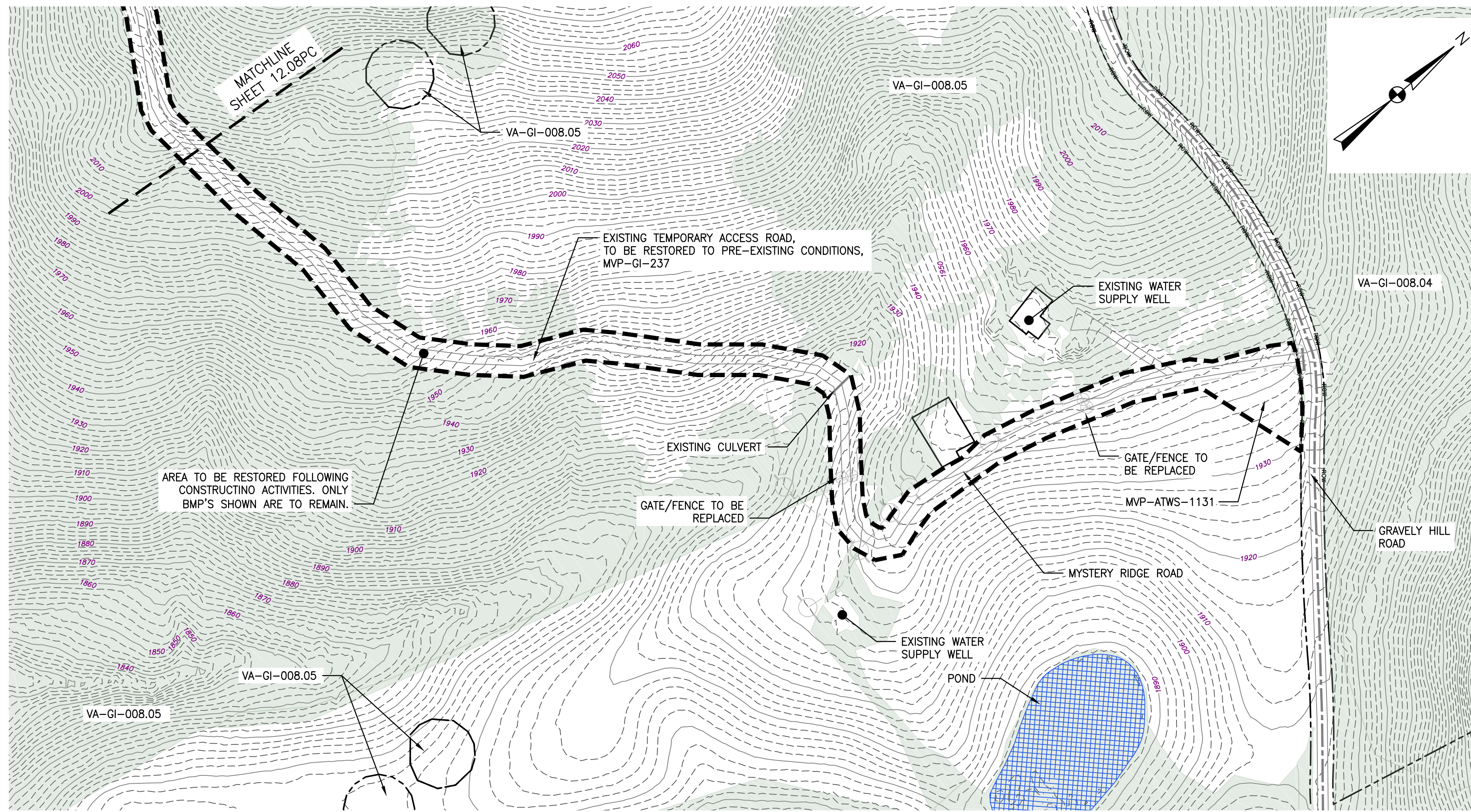
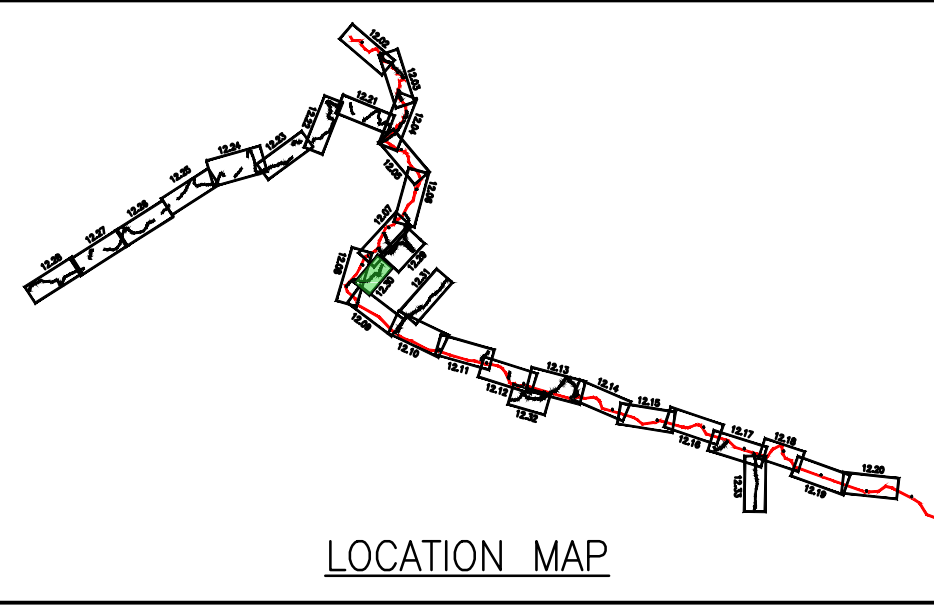
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

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



DRAWN BY:	KAL		
CHECKED BY:	RE		
APPROVED BY:	DW		
DATE:	03/21/2018		
SCALE:	AS SHOWN		
<table border="1"> <tr> <th>REVISION</th> </tr> <tr> <td> </td> </tr> </table>		REVISION	
REVISION			
SHT. NO. 12.29PC 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)
- 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

NOTES:

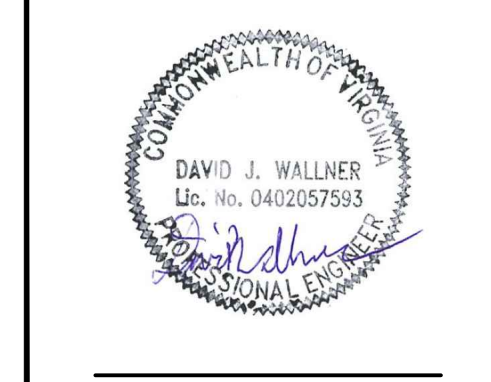
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

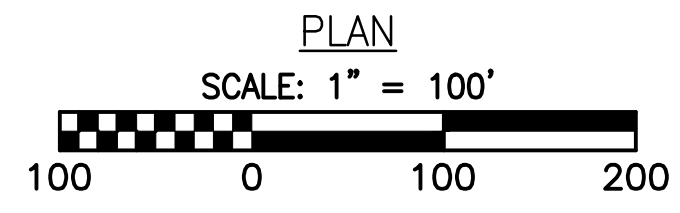
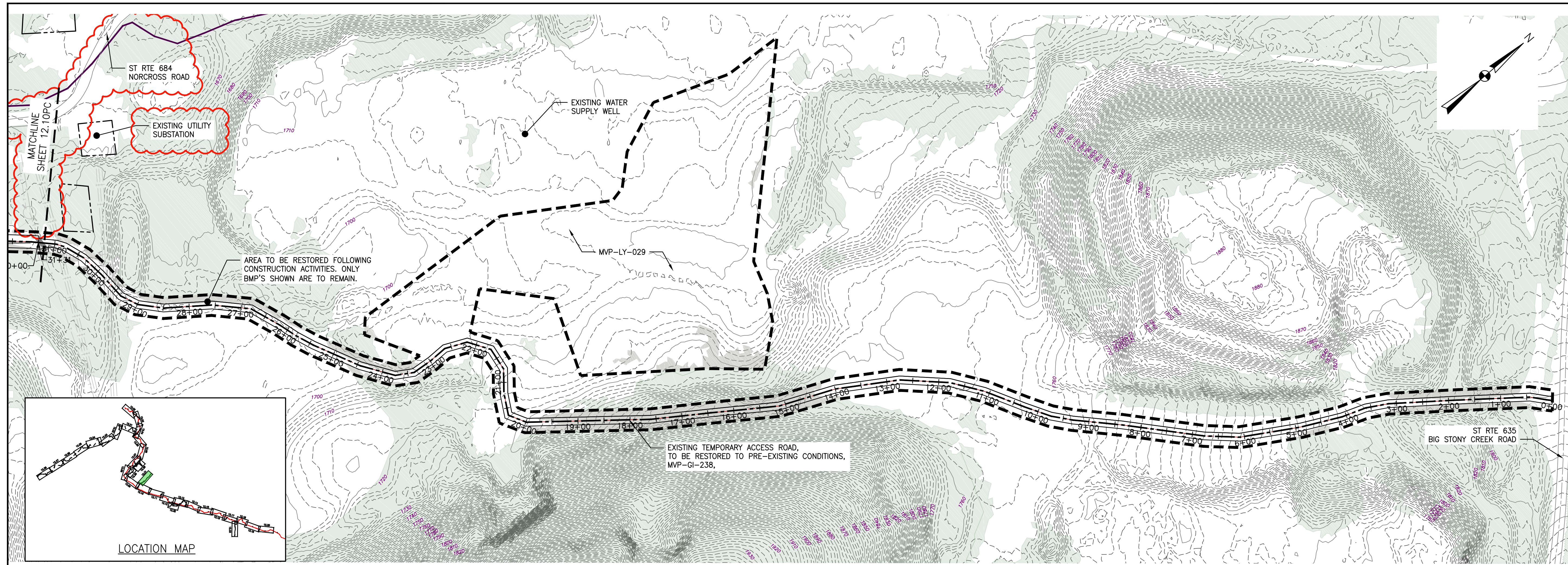
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.30PC OF 12.33PC	



LEGEND

—	EXISTING CULVERT	—>—>—>	PROPOSED LEVEL SPREADER DIVERSION	→	STREAM FLOW DIRECTION	▨	STEEP SLOPE AREA
—	STREAM	+++++	PROPOSED LEVEL SPREADER	—▲—	FEMA 100 YEAR FLOODPLAIN	▨	EXISTING FOREST
- - -	EXISTING PROPERTY LINE	—	PROPOSED ACCESS ROAD CENTERLINE	—▲—	PERMANENT WATER BAR 10' END TREATMENT	▨	PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- - -	EXISTING STATE LINE	—+—+—+—	PROPOSED PIPELINE	—▲—	PERMANENT WATER BAR 15' END TREATMENT	▨	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
- - -	EXISTING COUNTY LINE	→	SURFACE WATER FLOW DIRECTION	—▲—	PERMANENT WATER BAR 20' END TREATMENT		
- - -	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						

NOTES:

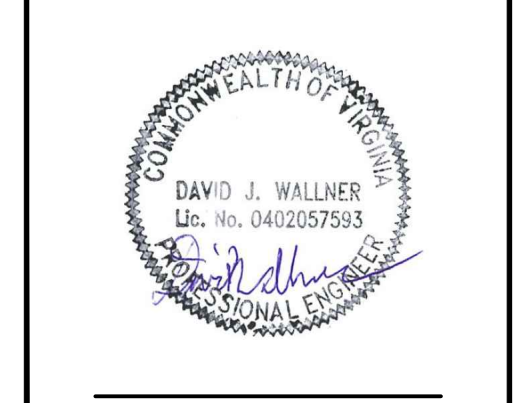
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
7	03/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
8	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
9	04/30/18	KAL	DW	FIELD MODIFICATION

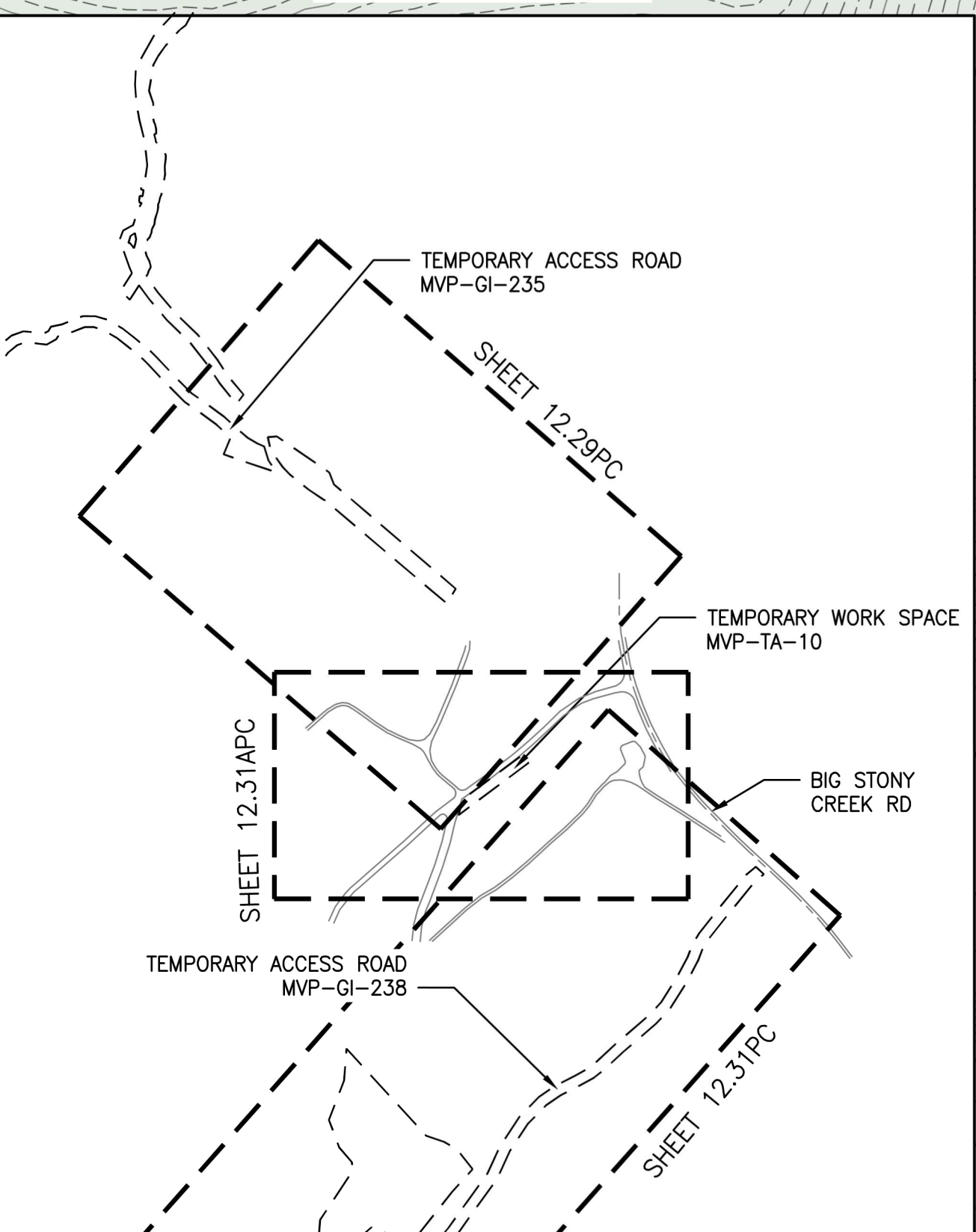
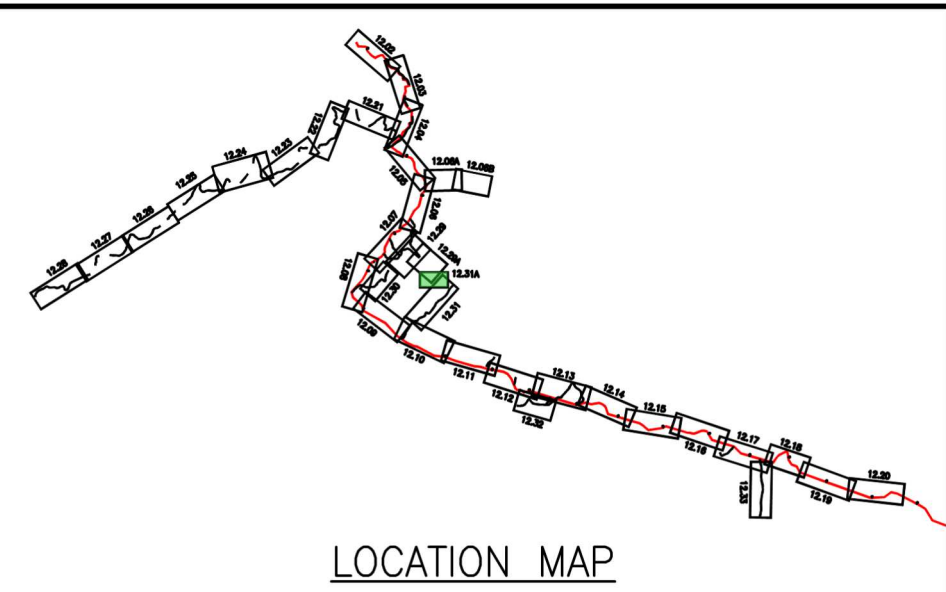
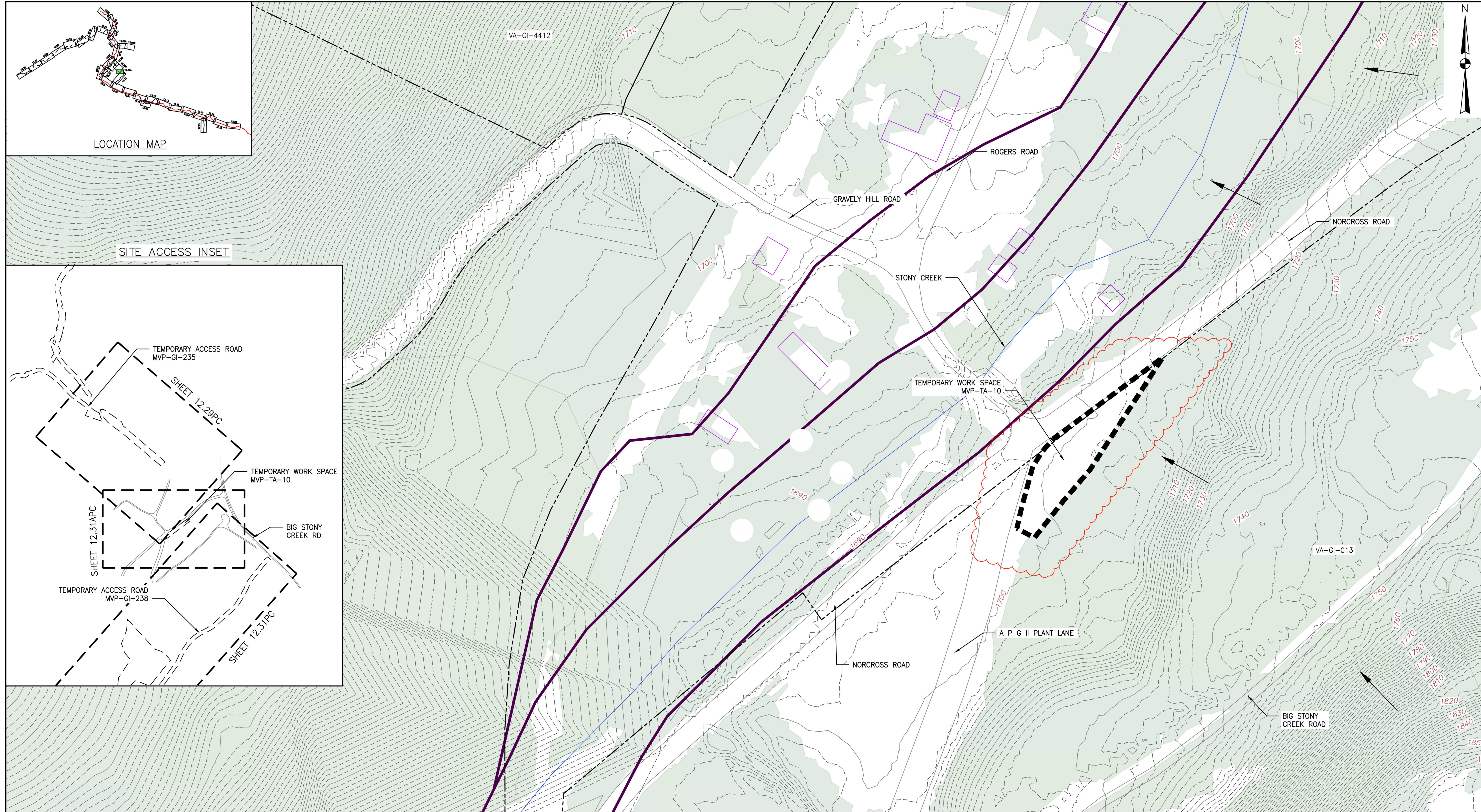
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	JWK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	02/08/2019
SCALE:	AS SHOWN
SHT. NO. 12.31PC OF 12.33PC	

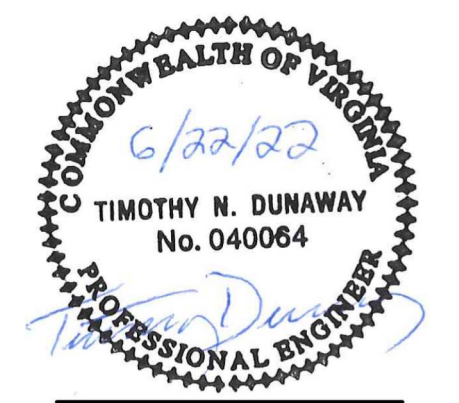


NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
1	06/22/22	JJZ	RE	TD	REVISIONS DUE TO WAGED COMMENTS
0	01/03/22	CAR	RE	TD	TEMPORARY WORK SPACE ADDED TO PROVIDE ADEQUATE TRUCK TURNING SPACE

Mountain Valley Pipeline
 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

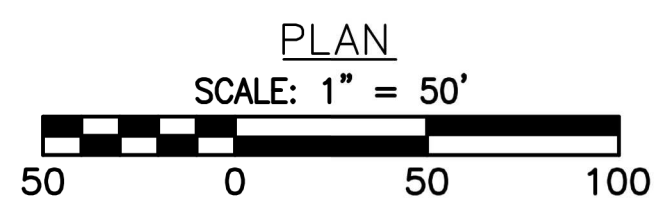
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

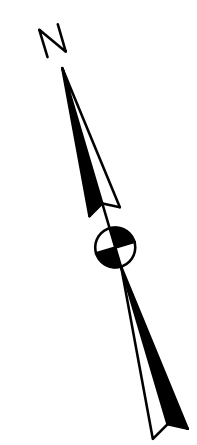
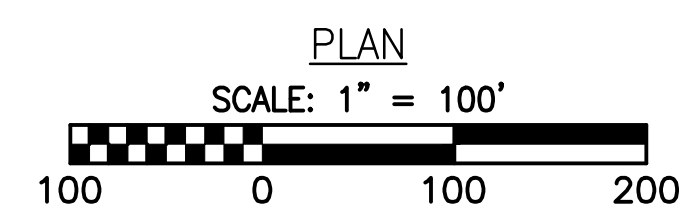
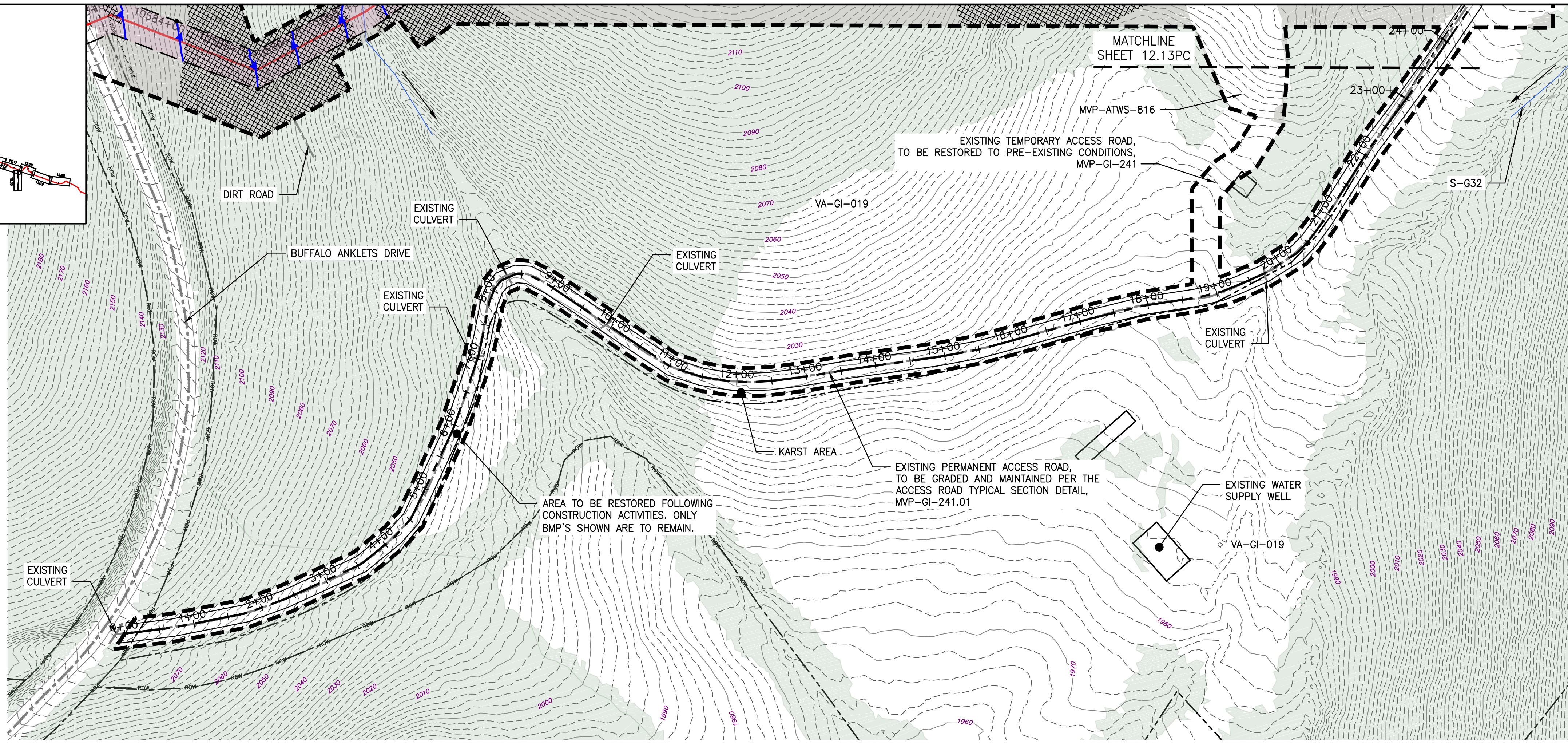
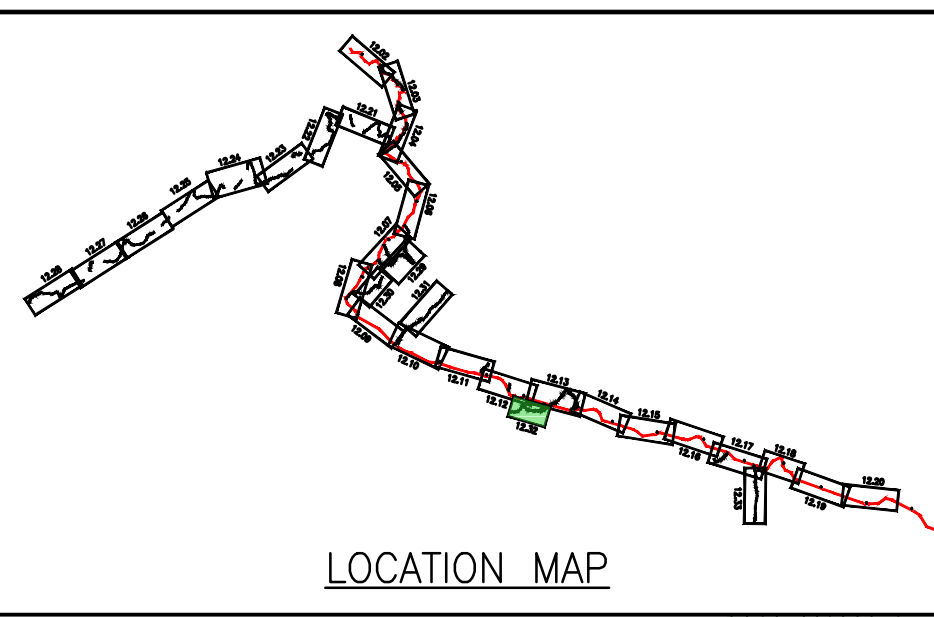


DRAWN BY:	GR
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	06/22/2022
SCALE:	AS SHOWN
SHT. NO.	12.31APC OF 14.77PC

TOPO DATA SOURCE:
 CONTOUR DATA DERIVED FROM RADFORD UNIVERSITY ONLINE RESOURCE



LEGEND	
---	EXISTING PROPERTY LINE
---	EXISTING CONTOUR (MAJOR)
---	EXISTING CONTOUR (MINOR)
---	EXISTING ROAD CENTERLINE
---	EXISTING EDGE OF ROAD (SURVEYED)
---	PROPOSED LIMIT OF DISTURBANCE
→	FLOW DIRECTION
---	EXISTING FOREST
---	TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
---	STREAM
---	FEMA 100 YEAR FLOODPLAIN



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

NOTES:

1. 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.
2. 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
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

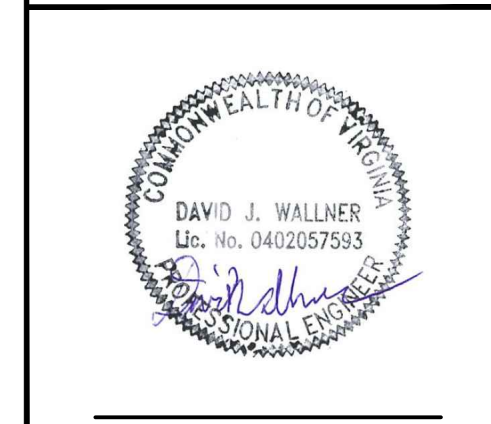
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

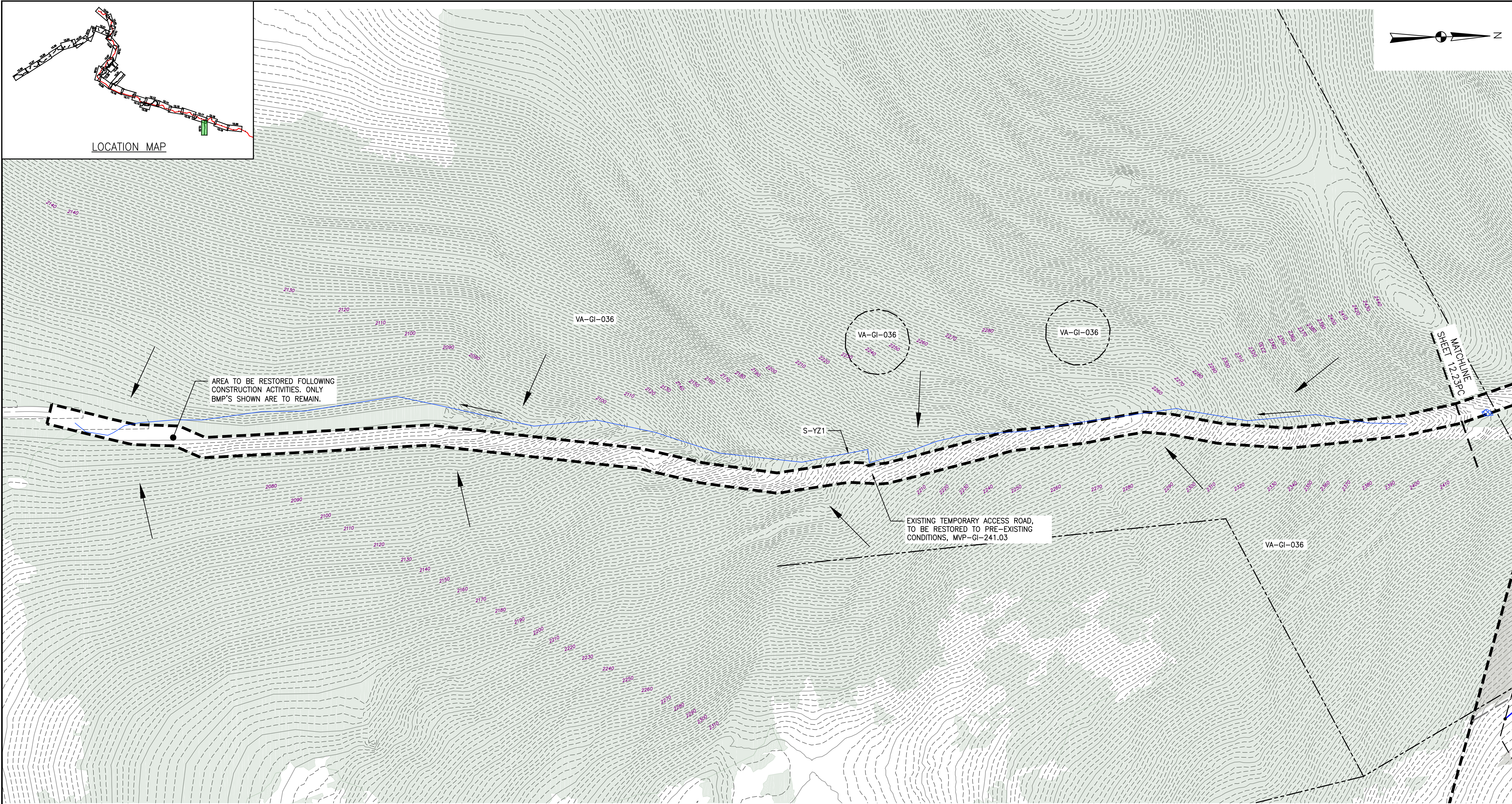
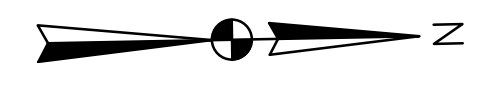
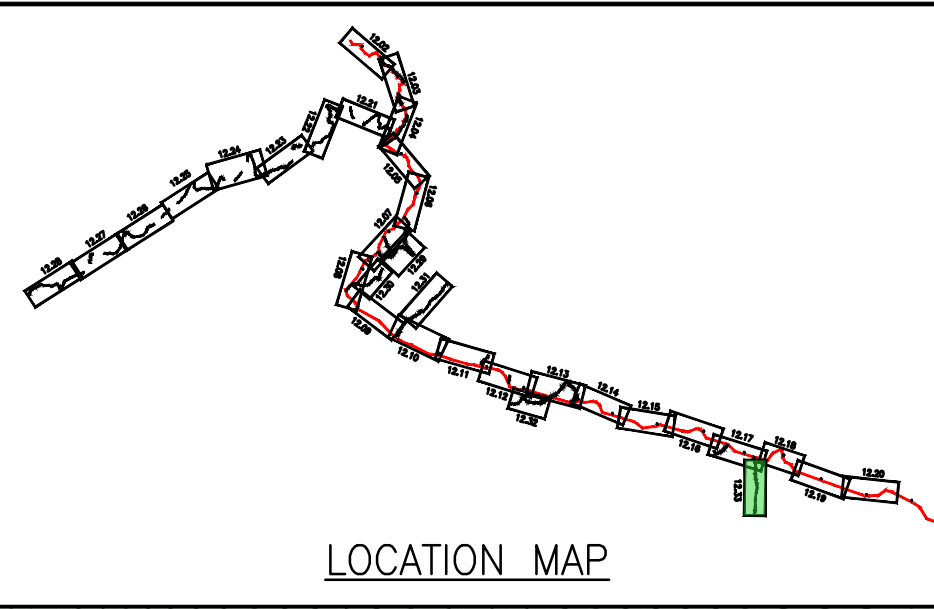
TETRA TECH
 complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	
SHT. NO. 12.32PC OF 12.33PC	

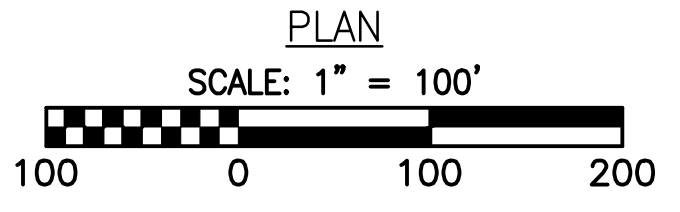


AREA TO BE RESTORED FOLLOWING CONSTRUCTION ACTIVITIES. ONLY BMP'S SHOWN ARE TO REMAIN.

EXISTING TEMPORARY ACCESS ROAD, TO BE RESTORED TO PRE-EXISTING CONDITIONS, MVP-GI-241.03

SHEET MATCHLINE

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		STREAM FLOW DIRECTION
	ACID FORMING MATERIAL		FEMA 100 YEAR FLOODPLAIN
	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)		PERMANENT WATER BAR 10' END TREATMENT
	PROPOSED LIMIT OF DISTURBANCE		PERMANENT WATER BAR 15' END TREATMENT
	PROPOSED PERMANENT RIGHT OF WAY		PERMANENT WATER BAR 20' END TREATMENT
	APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)		STEEP SLOPE AREA
			EXISTING FOREST
			PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
			TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION



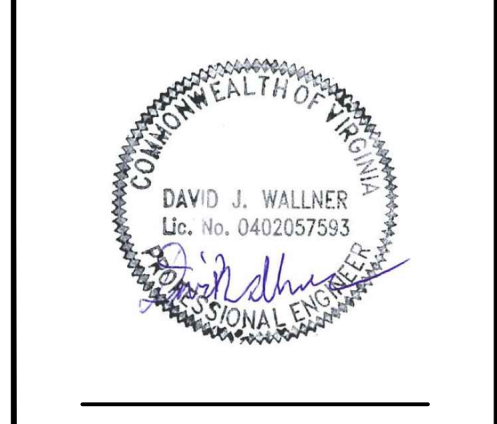
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
 - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	02/16/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
5	02/05/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 12.33PC OF 12.33PC	