

NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION:

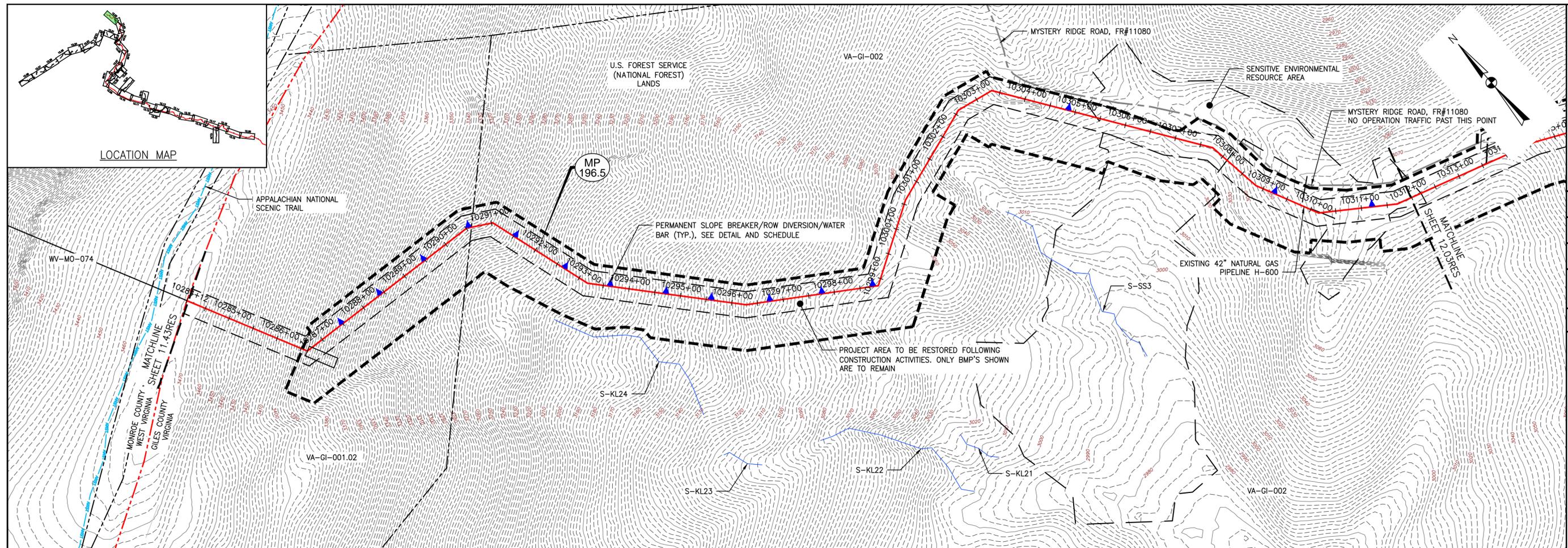
JEFFERSON NATIONAL FOREST – RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

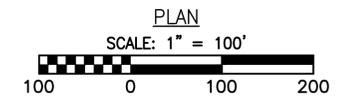
RESTORATION
 PLANS

DRAWN BY: LJK
 CHECKED BY: JDO
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHEET NO. 12.01RES OF 13.06RES

JNF = JEFFERSON NATIONAL FOREST
 *JEFFERSON NATIONAL FOREST REFERS TO THE SOUTHERN PORTION OF THE CURRENT GEORGE WASHINGTON & JEFFERSON NATIONAL FORESTS THROUGHOUT THIS DOCUMENT. ORIGINALLY TWO SEPARATE NATIONAL FORESTS, THE JNF AND THE GEORGE WASHINGTON NATIONAL FOREST WERE ADMINISTRATIVELY COMBINED IN 1995 AND ARE ADMINISTERED AS A SINGLE NATIONAL FOREST UNIT.



NOTE:
NO MOTORIZED VEHICLES PERMITTED BETWEEN
STATION 10280+73.80 AND 10286+53.26



LEGEND			
—	EXISTING CULVERT	---	EXISTING ROAD/TRAIL
—	STREAM	—>—>—>	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	▨	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	▨	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED PERMANENT DIP (SEE DETAIL MVP-ES5)

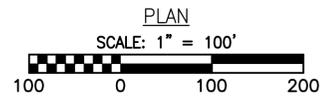
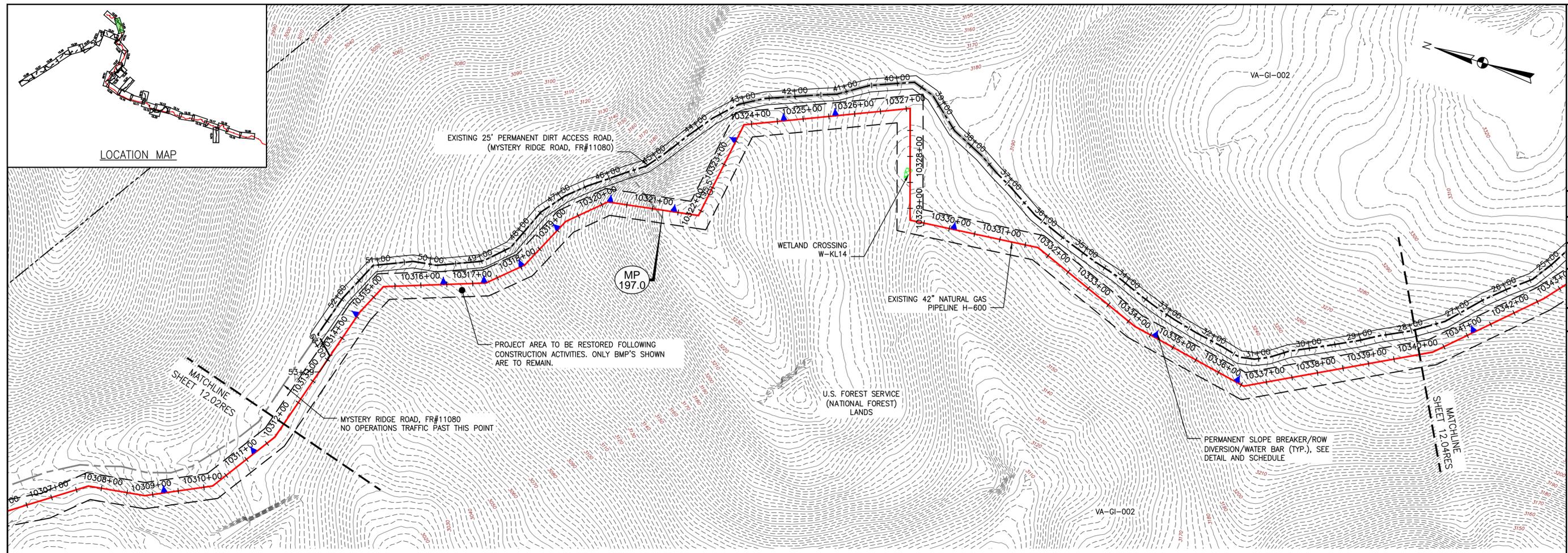
NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 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

RESTORATION PLANS

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.02RES OF	13.06RES



LEGEND			
	EXISTING CULVERT		EXISTING ROAD/TRAIL
	STREAM		GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	EXISTING PROPERTY LINE		PROPOSED LIMIT OF DISTURBANCE
	EXISTING STATE LINE		PROPOSED ACCESS ROAD CENTERLINE
	EXISTING COUNTY LINE		PROPOSED PIPELINE
	US FOREST SERVICE (NATIONAL FOREST) LANDS		POND
	APPALACHIAN NATIONAL SCENIC TRAIL		WETLAND
	PROPOSED LEVEL SPREADER DIVERSION		PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
	PROPOSED LEVEL SPREADER		PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
	PROPOSED PERMANENT RIGHT OF WAY		PROPOSED PERMANENT DIP (SEE DETAIL MVP-ESS)

NO.	DATE	CHKD.	APPD.	DESCRIPTION

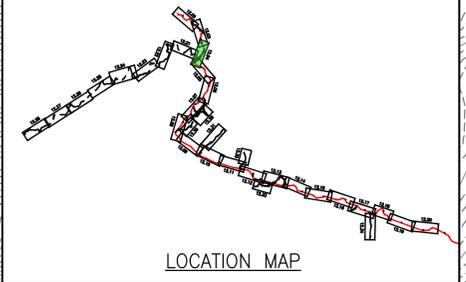
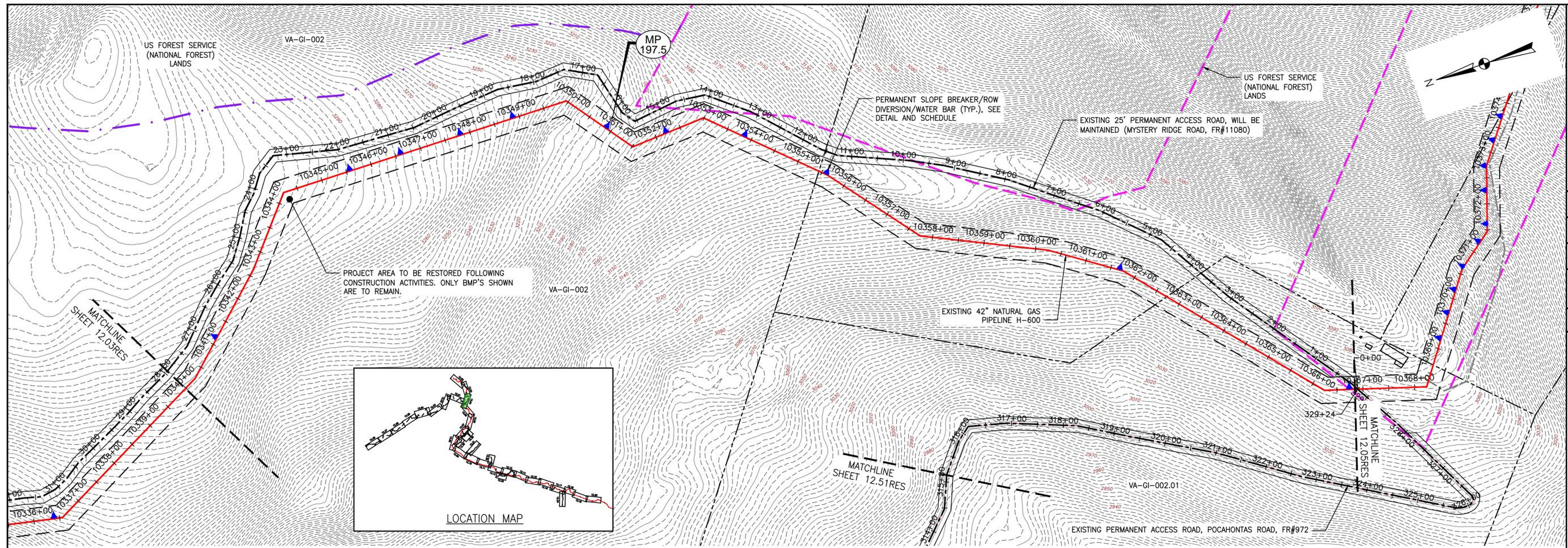
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

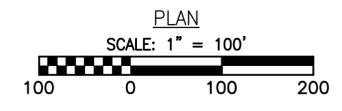
RESTORATION
 PLANS

DRAWN BY: LJK
 CHECKED BY: JDO
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHEET NO. 12.03RES OF 13.06RES

TETRA TECH CAD FILE PATH: X:\CAD\PA\Pittsburgh\EOT\7157 - MVP\12 - Giles\E&S\Version 5.0\LINE REST\7157RES12.03.dwg PLOTTED ON: 9/5/2017 2:42 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND			
—	EXISTING CULVERT	—	EXISTING ROAD/TRAIL
—	STREAM	—	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	■	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	■	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED PERMANENT DIP (SEE DETAIL MVP-ES5)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

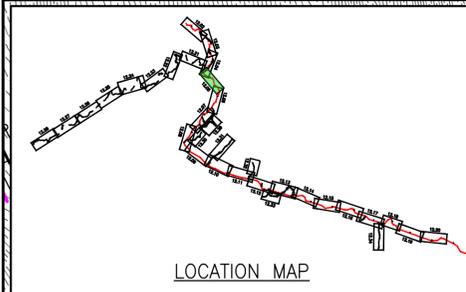
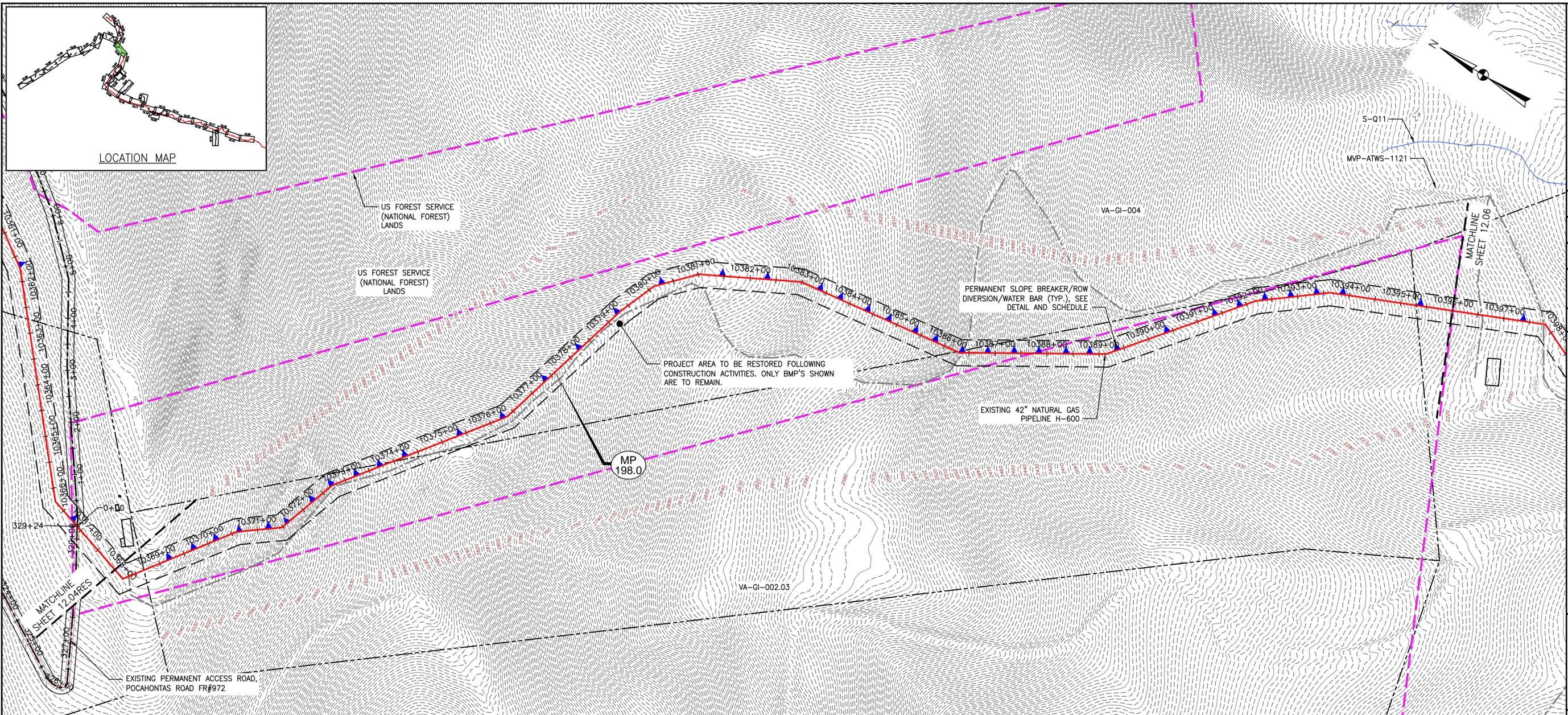
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION
PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: LJK
 CHECKED BY: JDO
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHT. NO. 12.04RES OF 13.06RES

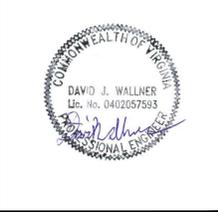


NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

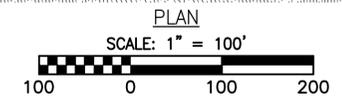
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

RESTORATION PLANS



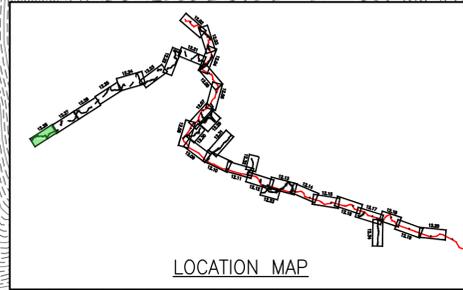
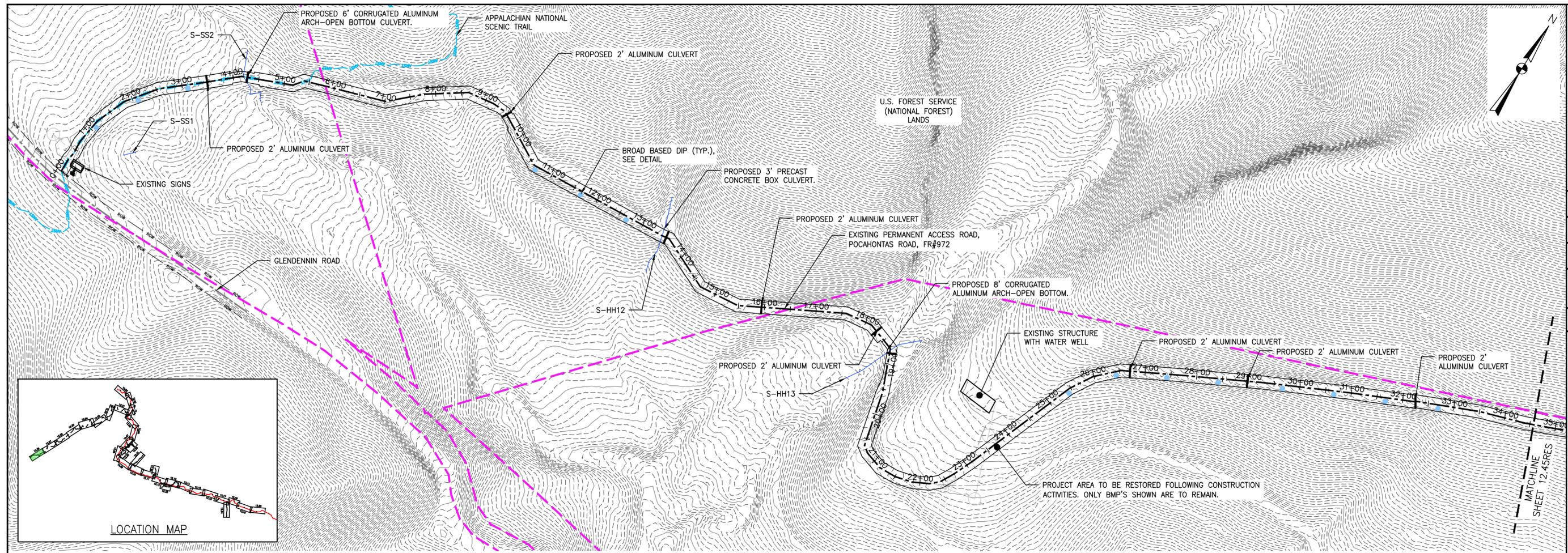
DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.05RES OF	13.06RES

NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.

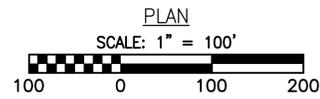


LEGEND ——— EXISTING CULVERT ——— STREAM - - - - - EXISTING PROPERTY LINE - - - - - EXISTING STATE LINE - - - - - EXISTING COUNTY LINE - - - - - US FOREST SERVICE (NATIONAL FOREST) LANDS - - - - - APPALACHIAN NATIONAL SCENIC TRAIL - - - - - PROPOSED LEVEL SPREADER DIVERSION + + + + + PROPOSED LEVEL SPREADER - - - - - PROPOSED PERMANENT RIGHT OF WAY - - - - - EXISTING ROAD/TRAIL > > > GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) - - - - - PROPOSED LIMIT OF DISTURBANCE - - - - - PROPOSED ACCESS ROAD CENTERLINE - - - - - PROPOSED PIPELINE POND WETLAND PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1) PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE) PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ESS)
--

TETRA TECH CAD FILE PATH: X:\CADD\Pittsburgh\EQ\7157 - MVP\12 - Giles\E&S\Version 5.0\LINE REST\7157RES12.05.dwg PLOTTED ON: 9/5/2017 2:58 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND			
—	EXISTING CULVERT	---	EXISTING ROAD/TRAIL
—	STREAM	—>—>	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	■	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	■	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ESS)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

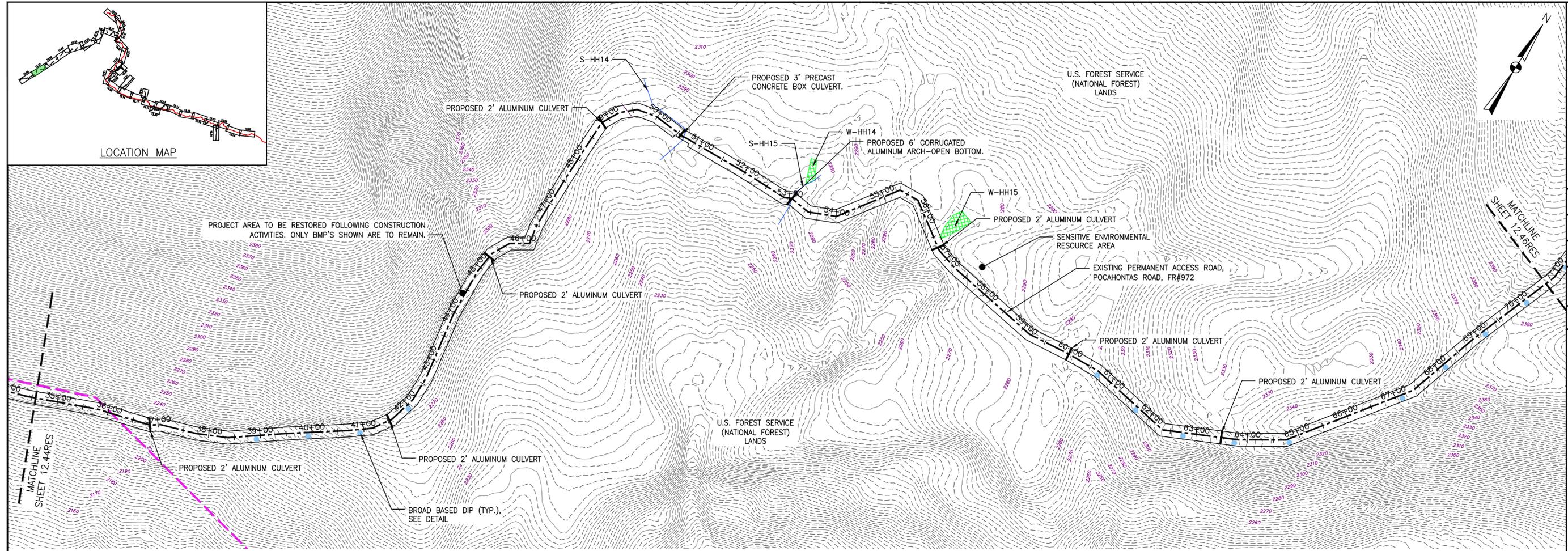
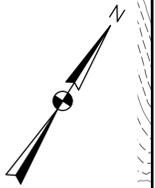
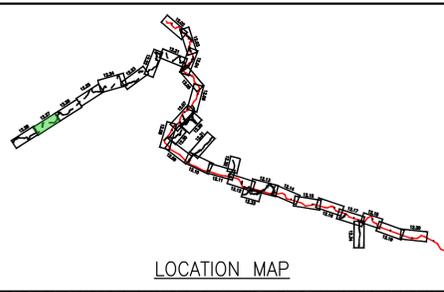
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION
PLANS

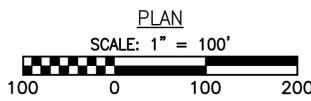
DAVID J. WALLNER
 Lic. No. 0402057593

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.44RES OF 13.06RES	REVISION



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

NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND	
	EXISTING CULVERT
	STREAM
	EXISTING PROPERTY LINE
	EXISTING STATE LINE
	EXISTING COUNTY LINE
	US FOREST SERVICE (NATIONAL FOREST) LANDS
	APPALACHIAN NATIONAL SCENIC TRAIL
	PROPOSED LEVEL SPREADER DIVERSION
	PROPOSED LEVEL SPREADER
	PROPOSED PERMANENT RIGHT OF WAY
	EXISTING ROAD/TRAIL
	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	POND
	WETLAND
	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

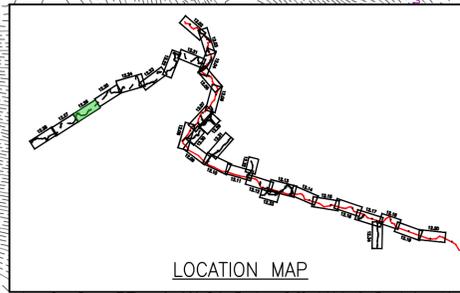
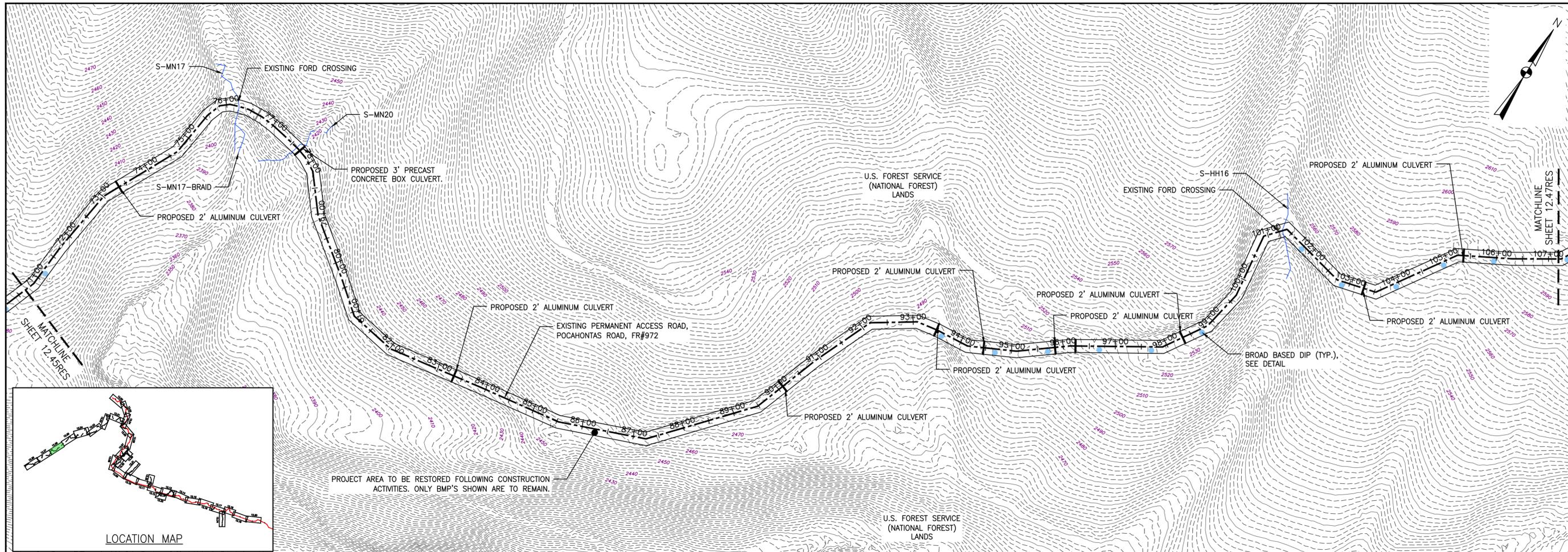
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

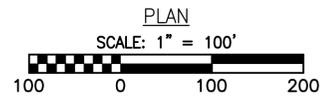
RESTORATION PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: LJK
 CHECKED BY: JDO
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHT. NO. 12.45RES OF 13.06RES



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



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

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 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

RESTORATION
PLANS

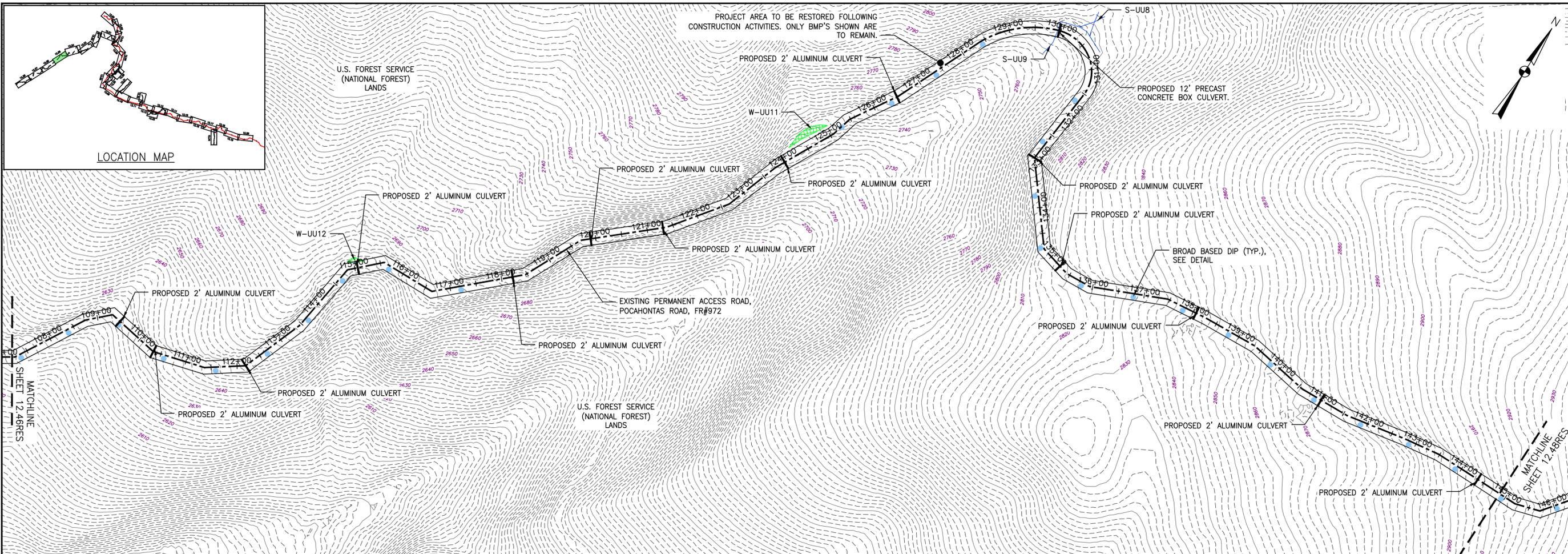
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.46RES OF 13.06RES	REVISION

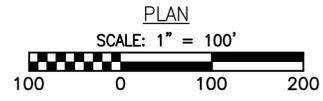
LEGEND

—	EXISTING CULVERT	---	EXISTING ROAD/TRAIL
—	STREAM	—>—>	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	▒	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	▒	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

TETRA TECH CAD FILE PATH: X:\CAD\...\Pittsburgh\EQ\7157 - MVP\12 - Giles\E&S\E&S Version 5.0.0\LINE REST\7157RES12.44-RES12.48.dwg PLOTTED ON: 8/24/2017 1:07 PM PLOTTED BY: Brodley, Mike PLOT FILE: ENVIRONMENTAL_COLOR.ctb



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND	
—	EXISTING CULVERT
—	STREAM
---	EXISTING PROPERTY LINE
---	EXISTING STATE LINE
---	EXISTING COUNTY LINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS
---	APPALACHIAN NATIONAL SCENIC TRAIL
---	PROPOSED LEVEL SPREADER DIVERSION
---	PROPOSED LEVEL SPREADER
---	PROPOSED PERMANENT RIGHT OF WAY
---	EXISTING ROAD/TRAIL
---	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED ACCESS ROAD CENTERLINE
---	PROPOSED PIPELINE
---	POND
---	WETLAND
---	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ESS)

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

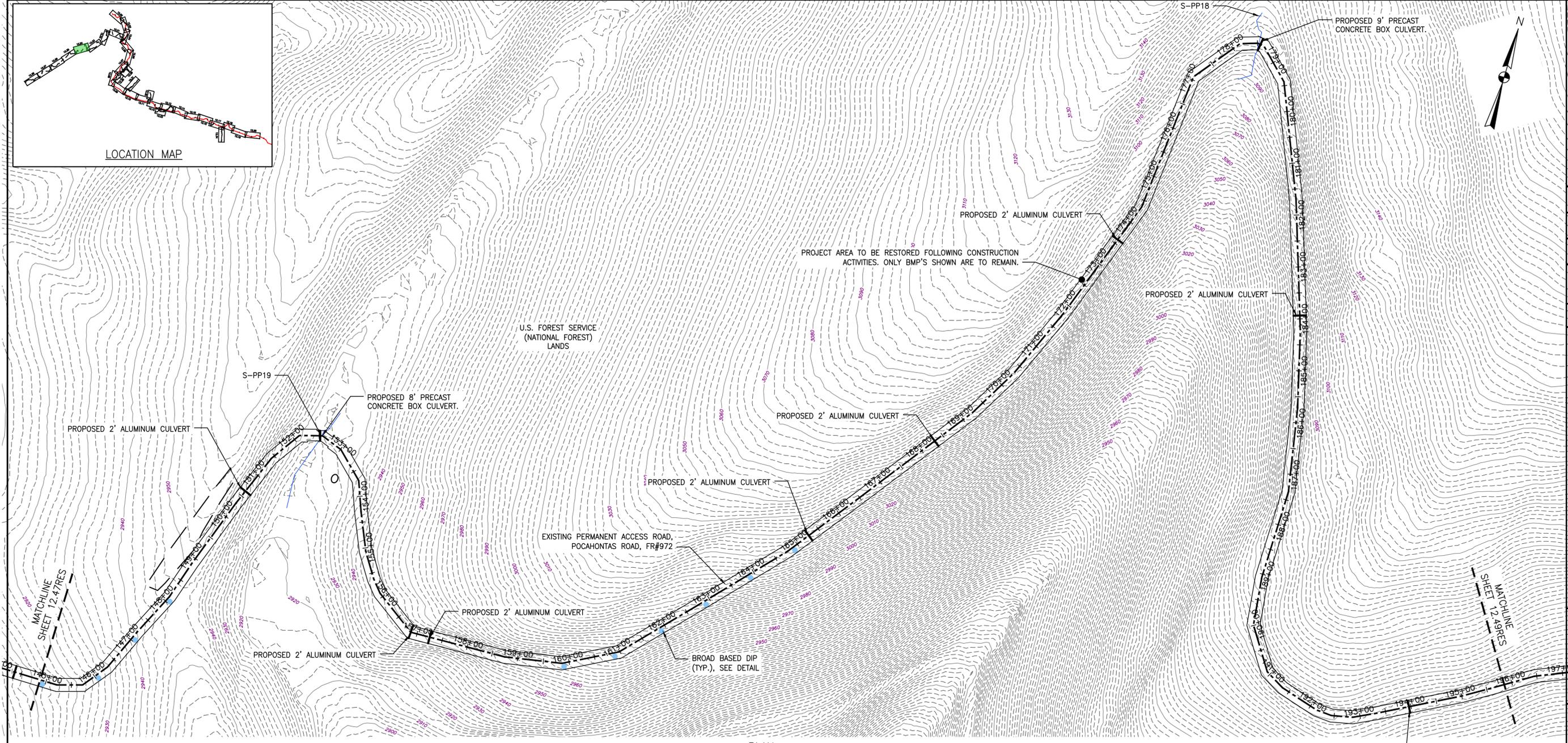
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION
PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

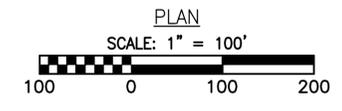
DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.47RES OF 13.06RES	REVISION



LOCATION MAP



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND	
	EXISTING CULVERT
	STREAM
	EXISTING PROPERTY LINE
	EXISTING STATE LINE
	EXISTING COUNTY LINE
	US FOREST SERVICE (NATIONAL FOREST) LANDS
	APPALACHIAN NATIONAL SCENIC TRAIL
	PROPOSED LEVEL SPREADER DIVERSION
	PROPOSED LEVEL SPREADER
	PROPOSED PERMANENT RIGHT OF WAY
	EXISTING ROAD/TRAIL
	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	POND
	WETLAND
	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ESS)

TETRA TECH CAD FILE PATH: X:\CAD\00_Pittsburgh\EQ\7157 - MVP\12 - Giles\E&S\Version 5.0\LINE REST\7157RES12.44-RES12.48.dwg PLOTTED ON: 8/24/2017 1:11 PM PLOTTED BY: Bradley, Mike PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.	DATE	DNW.:	CHKD.:	APPD.:	DESCRIPTION:

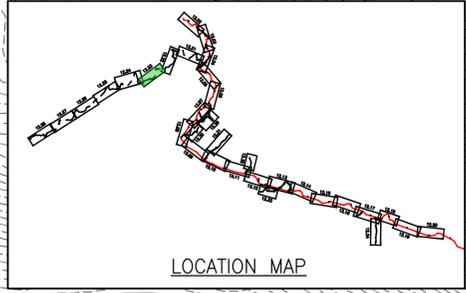
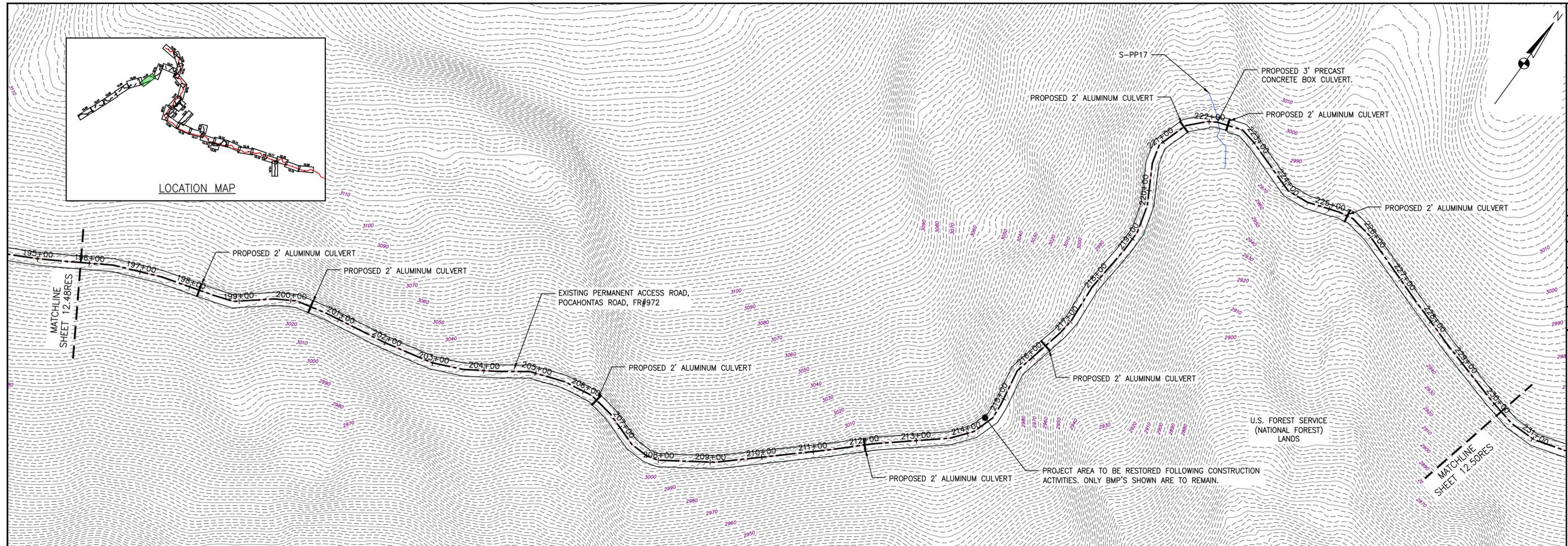
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

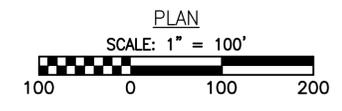
RESTORATION PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.48RES OF	13.06RES



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND	
	EXISTING CULVERT
	STREAM
	EXISTING PROPERTY LINE
	EXISTING STATE LINE
	EXISTING COUNTY LINE
	US FOREST SERVICE (NATIONAL FOREST) LANDS
	APPALACHIAN NATIONAL SCENIC TRAIL
	PROPOSED LEVEL SPREADER DIVERSION
	PROPOSED LEVEL SPREADER
	PROPOSED PERMANENT RIGHT OF WAY
	EXISTING ROAD/TRAIL
	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	POND
	WETLAND
	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ESS)

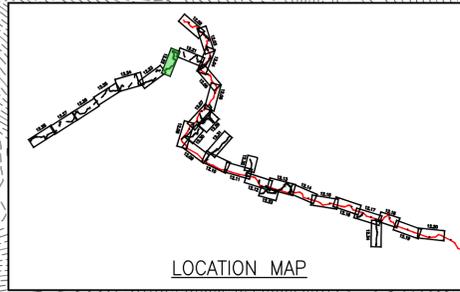
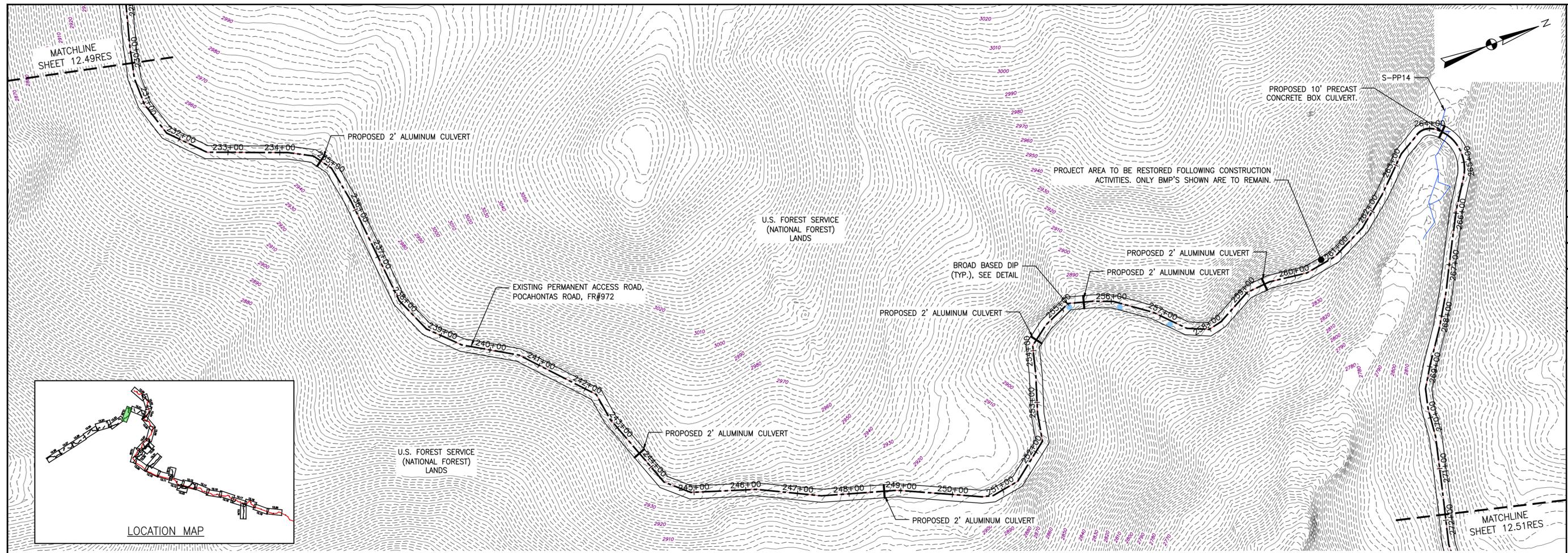
NO.	DATE	CHKD.	APPD.	DESCRIPTION

JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

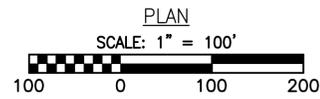
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

RESTORATION PLANS

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.49RES OF 13.06RES	



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



LEGEND			
—	EXISTING CULVERT	—	EXISTING ROAD/TRAIL
—	STREAM	—	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	■	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	■	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

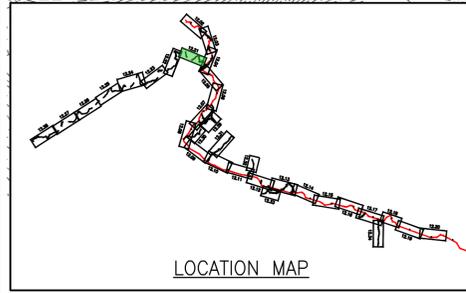
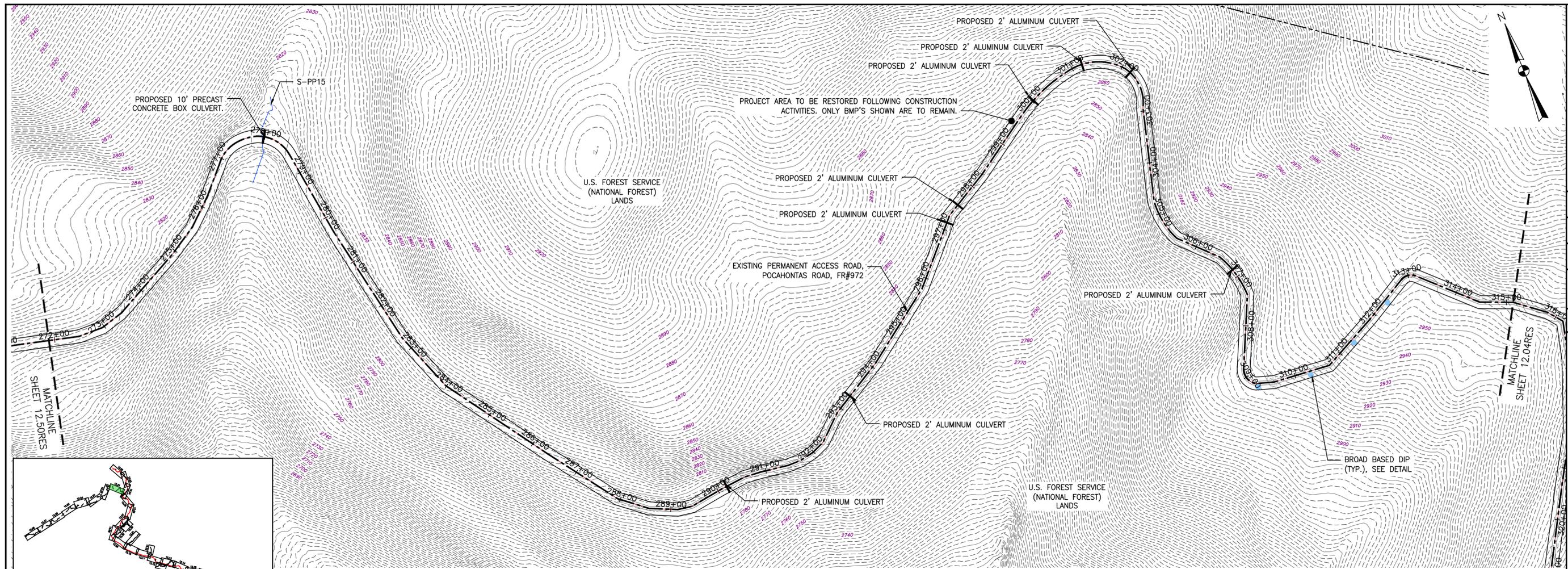
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

RESTORATION
PLANS

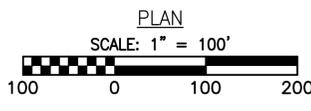
DAVID J. WALLNER
 Lic. No. 0402057593

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 12.50RES OF 13.06RES	REVISION

TETRA TECH CAD FILE PATH: X:\CADD\Pittsburgh\EQ\7157 - MVP\12 - Giles\E&S\Version 5.0\LINE REST\7157RES12.49-RES12.51.dwg PLOTTED ON: 8/25/2017 6:06 AM PLOTTED BY: Brodley, Mike PLOT FILE: ENVIRONMENTAL_COLOR.ctb



NOTE:
POCAHONTAS ROAD WILL HAVE A ROADSIDE DITCH
AND THE ROAD WILL BE CROWNED AS NEEDED.



NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 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

RESTORATION PLANS

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

DRAWN BY: LJK
 CHECKED BY: JDO
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHEET NO. 12.51RES OF 13.06RES

LEGEND

— EXISTING CULVERT	— EXISTING ROAD/TRAIL
— STREAM	— GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
— EXISTING PROPERTY LINE	— PROPOSED LIMIT OF DISTURBANCE
— EXISTING STATE LINE	— PROPOSED ACCESS ROAD CENTERLINE
— EXISTING COUNTY LINE	— PROPOSED PIPELINE
— US FOREST SERVICE (NATIONAL FOREST) LANDS	▣ POND
— APPALACHIAN NATIONAL SCENIC TRAIL	▣ WETLAND
— PROPOSED LEVEL SPREADER DIVERSION	▲ PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
— PROPOSED LEVEL SPREADER	▲ PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
— PROPOSED PERMANENT RIGHT OF WAY	● PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

TETRA TECH CAD FILE PATH: X:\CAD\DD_Pittsburgh\DOT\7157 - MVP\12 - Giles\E&S\Version 5.0.0\LINE REST\7157RES12.49-RES12.51.dwg PLOTTED ON: 8/24/2017 1:18 PM PLOTTED BY: Brodley, Mike PLOT FILE: ENVIRONMENTAL_COLOR.ctb



NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

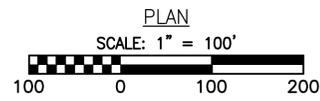
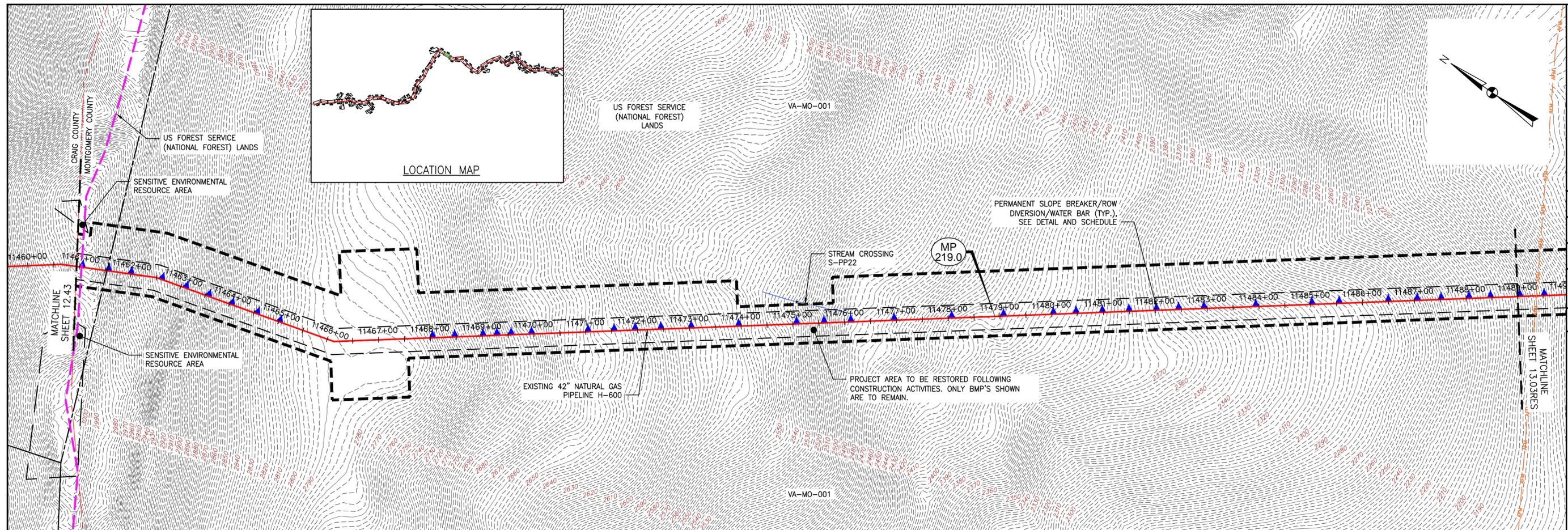

JEFFERSON NATIONAL FOREST – RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
 MONTGOMERY COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION
 PLANS



DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 13.01RES OF 13.06RES	REVISION



LEGEND			
—	EXISTING CULVERT	—	EXISTING ROAD/TRAIL
—	STREAM	—	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
—	EXISTING PROPERTY LINE	—	PROPOSED LIMIT OF DISTURBANCE
—	EXISTING STATE LINE	—	PROPOSED ACCESS ROAD CENTERLINE
—	EXISTING COUNTY LINE	—	PROPOSED PIPELINE
—	US FOREST SERVICE (NATIONAL FOREST) LANDS	■	POND
—	APPALACHIAN NATIONAL SCENIC TRAIL	■	WETLAND
—	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
—	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
—	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	CHKD.	APPD.	DESCRIPTION

Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 MONTGOMERY COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

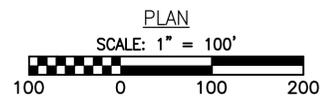
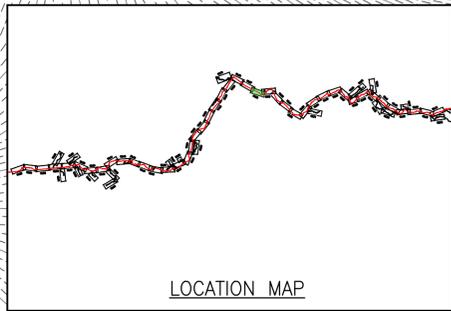
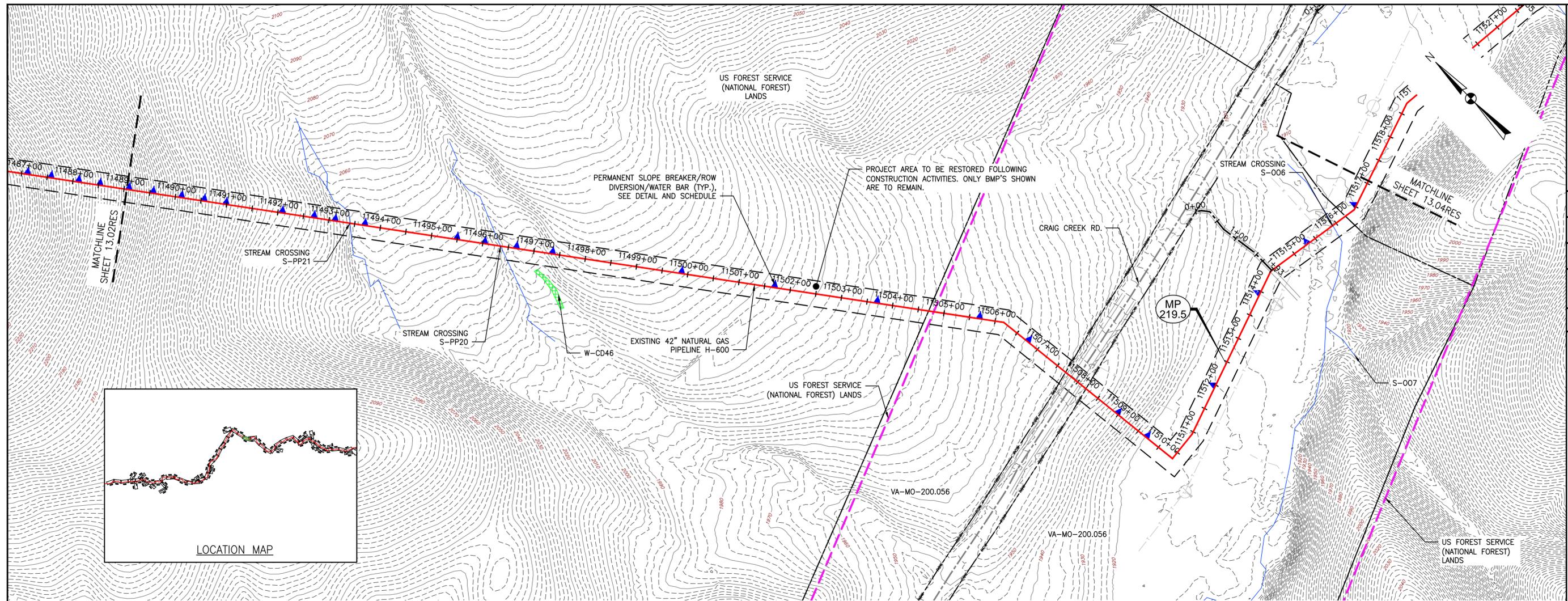
TETRA TECH
 complex world | CLEAR SOLUTIONS™
 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

RESTORATION
PLANS

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

DRAWN BY: LJK
 CHECKED BY: JRK
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHT. NO. 13.02RES OF 13.06RES

TETRA TECH CAD FILE PATH: X:\CADD\Pittsburgh\DOT\7157 - MVP\13 - Montgomery\EA&S\Version 5.0.0\INE REST\7157RES13.02.dwg PLOTTED ON: 9/5/2017 1:35 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED PERMANENT RIGHT OF WAY
- EXISTING ROAD/TRAIL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- ▣ POND
- ▣ WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
- ▲ PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
- PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	CHKD.	APPD.	DESCRIPTION

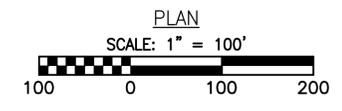
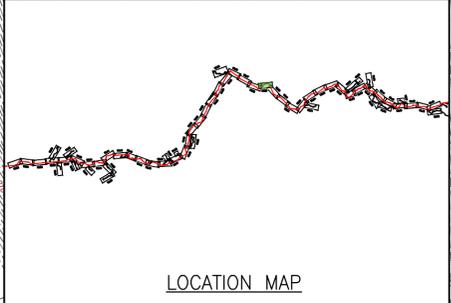
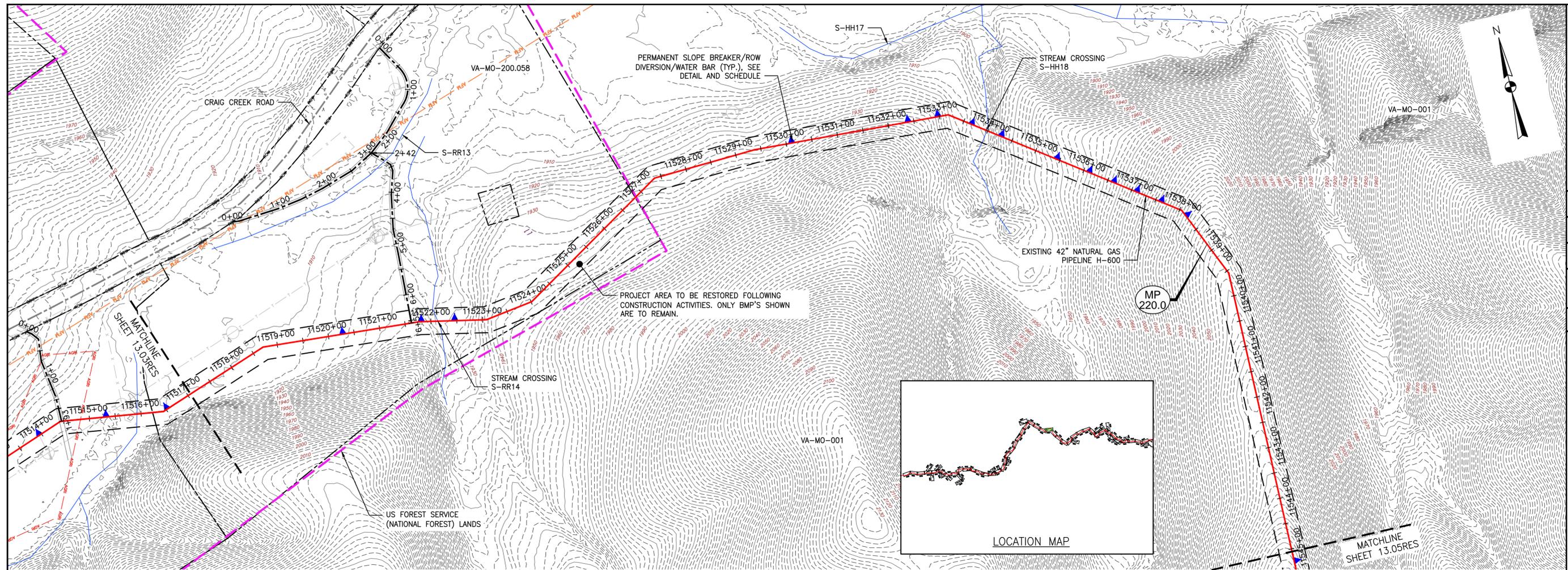
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 MONTGOMERY COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION PLANS

DRAWN BY: LJK
 CHECKED BY: JRK
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHT. NO. 13.03RES OF 13.06RES

TETRA TECH CAD FILE PATH: X:\CAD\01_Pittsburgh\DOT\7157 - MVP\13 - Montgomery\EA&S\Version 5.0.0\JNE_REST\7157RES13.03.dwg PLOTTED ON: 9/5/2017 1:39 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LEGEND			
—	EXISTING CULVERT	—	EXISTING ROAD/TRAIL
—	STREAM	—	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	EXISTING PROPERTY LINE	---	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING STATE LINE	---	PROPOSED ACCESS ROAD CENTERLINE
---	EXISTING COUNTY LINE	---	PROPOSED PIPELINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS	■	POND
---	APPALACHIAN NATIONAL SCENIC TRAIL	■	WETLAND
---	PROPOSED LEVEL SPREADER DIVERSION	▲	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PROPOSED LEVEL SPREADER	▲	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED PERMANENT RIGHT OF WAY	●	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

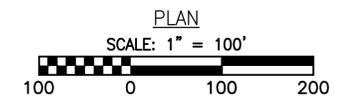
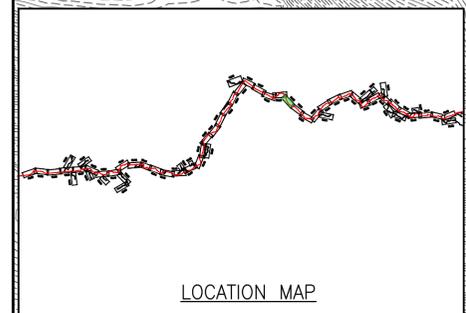
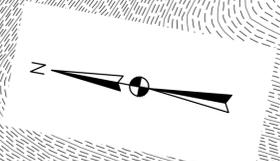
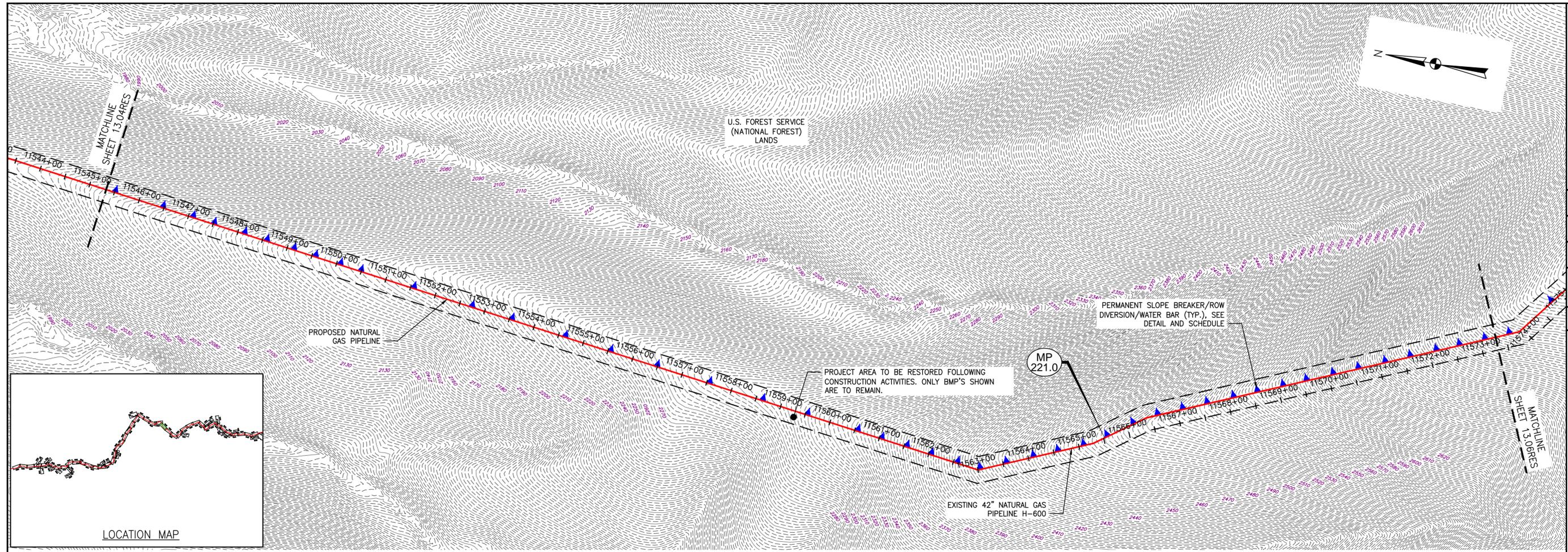
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST — RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT — H600 LINE
 MONTGOMERY COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION PLANS

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO. 13.04RES OF 13.06RES	REVISION

TETRA TECH CAD FILE PATH: X:\CADD\Pittsburgh\EQI\7157 - MVP\13 - Montgomery\EA&S\EA&S_Version 5.0.0\INE_REST\7157RES13.04.dwg PLOTTED ON: 9/5/2017 1:44 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LEGEND	
—	EXISTING CULVERT
—	STREAM
---	EXISTING PROPERTY LINE
---	EXISTING STATE LINE
---	EXISTING COUNTY LINE
---	US FOREST SERVICE (NATIONAL FOREST) LANDS
---	APPALACHIAN NATIONAL SCENIC TRAIL
---	PROPOSED LEVEL SPREADER DIVERSION
---	PROPOSED LEVEL SPREADER
---	PROPOSED PERMANENT RIGHT OF WAY
---	EXISTING ROAD/TRAIL
---	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED ACCESS ROAD CENTERLINE
---	PROPOSED PIPELINE
---	POND
---	WETLAND
---	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
---	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
---	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

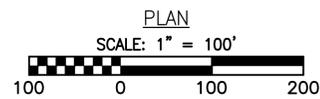
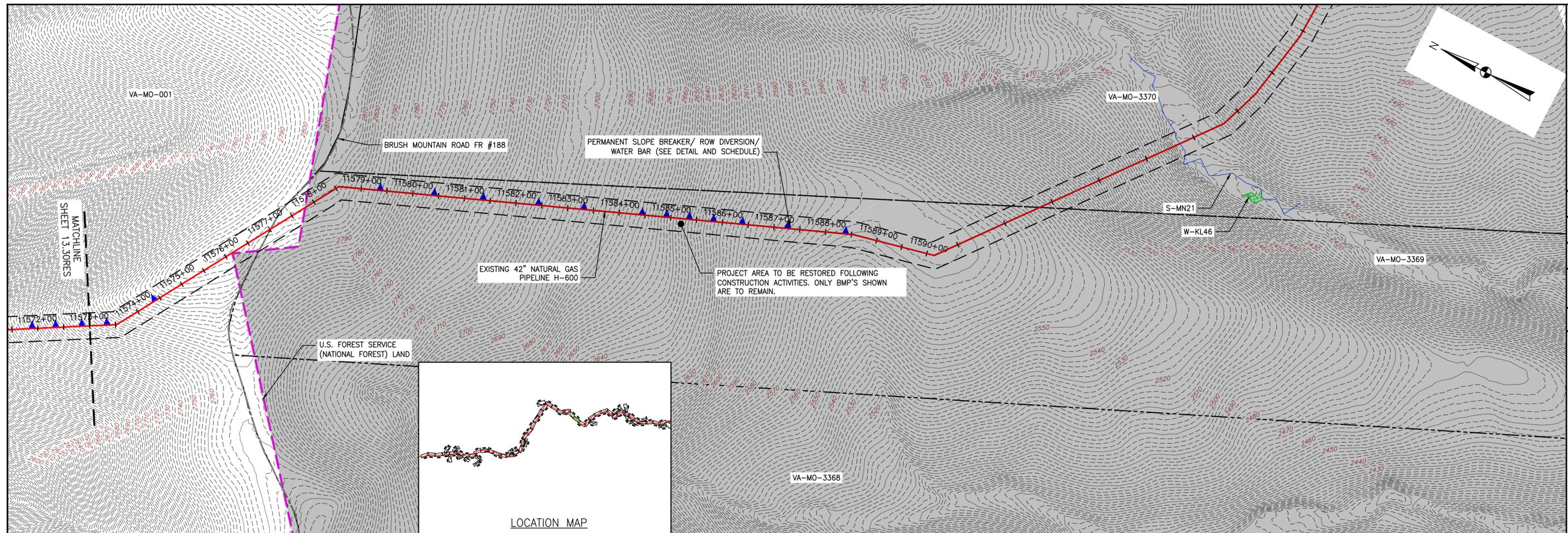
Mountain Valley Pipeline
JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 MONTGOMERY COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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

RESTORATION PLANS

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	08/18/2017
SCALE:	AS SHOWN
SHT. NO.	13.05RES OF 13.06RES

TETRA TECH CAD FILE PATH: X:\CAD01_Pittsburgh\EQT\7157 - MVP\13 - Montgomery\E&S\Version 5.0.0\INE_REST\7157RES13.05.dwg PLOTTED ON: 9/5/2017 1:47 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LEGEND	
	EXISTING CULVERT
	STREAM
	EXISTING PROPERTY LINE
	EXISTING STATE LINE
	EXISTING COUNTY LINE
	US FOREST SERVICE (NATIONAL FOREST) LANDS
	APPALACHIAN NATIONAL SCENIC TRAIL
	PROPOSED LEVEL SPREADER DIVERSION
	PROPOSED LEVEL SPREADER
	PROPOSED PERMANENT RIGHT OF WAY
	EXISTING ROAD/TRAIL
	GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	POND
	WETLAND
	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, 18, AND SCHEDULE)
	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)

NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

JEFFERSON NATIONAL FOREST - RESTORATION PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 MONTGOMERY 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

RESTORATION PLANS

DRAWN BY: LJK
 CHECKED BY: JRK
 APPROVED BY: RE
 DATE: 08/18/2017
 SCALE: AS SHOWN
 SHT. NO. 13.06RES OF 13.06RES