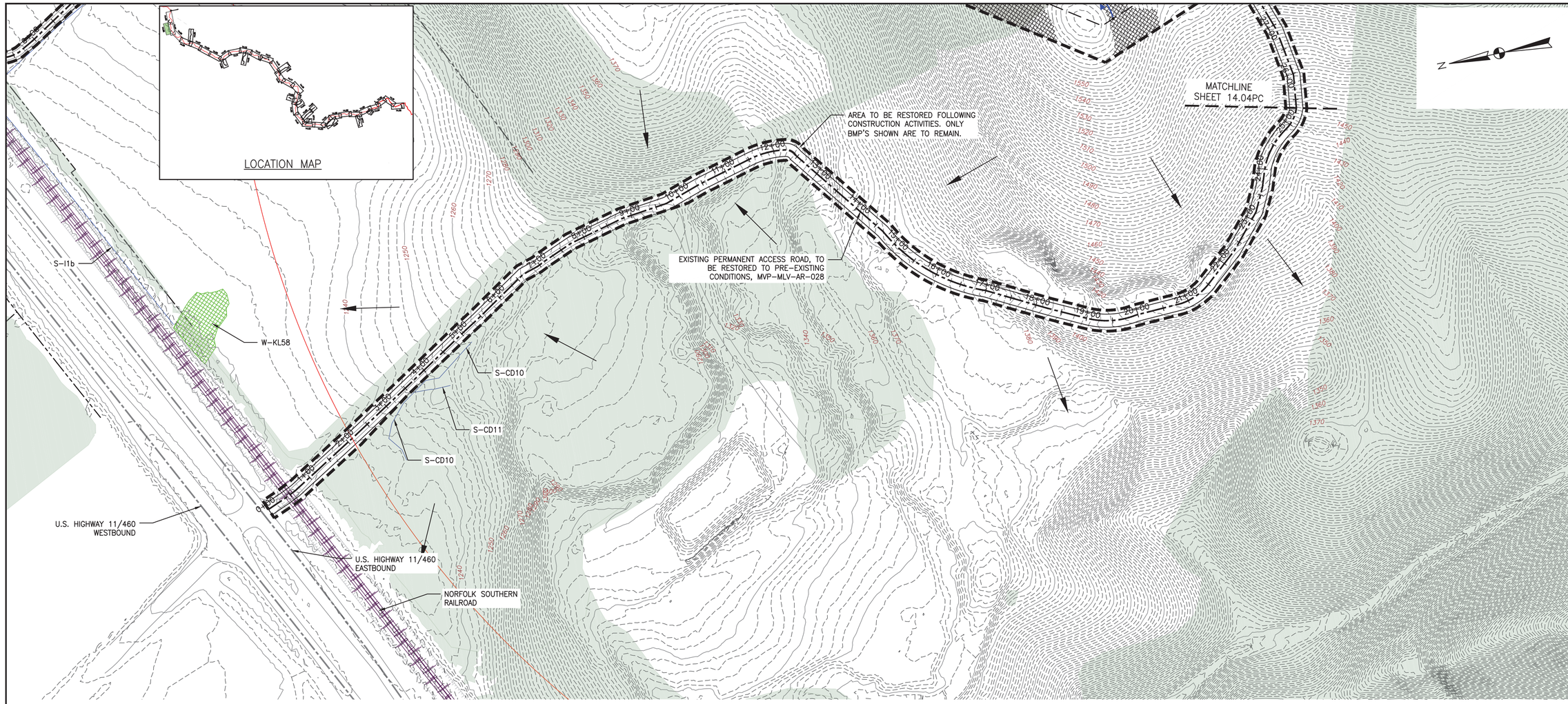


PLAN

SCALE: 1" = 100'

100 0 100 200

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.

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – 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

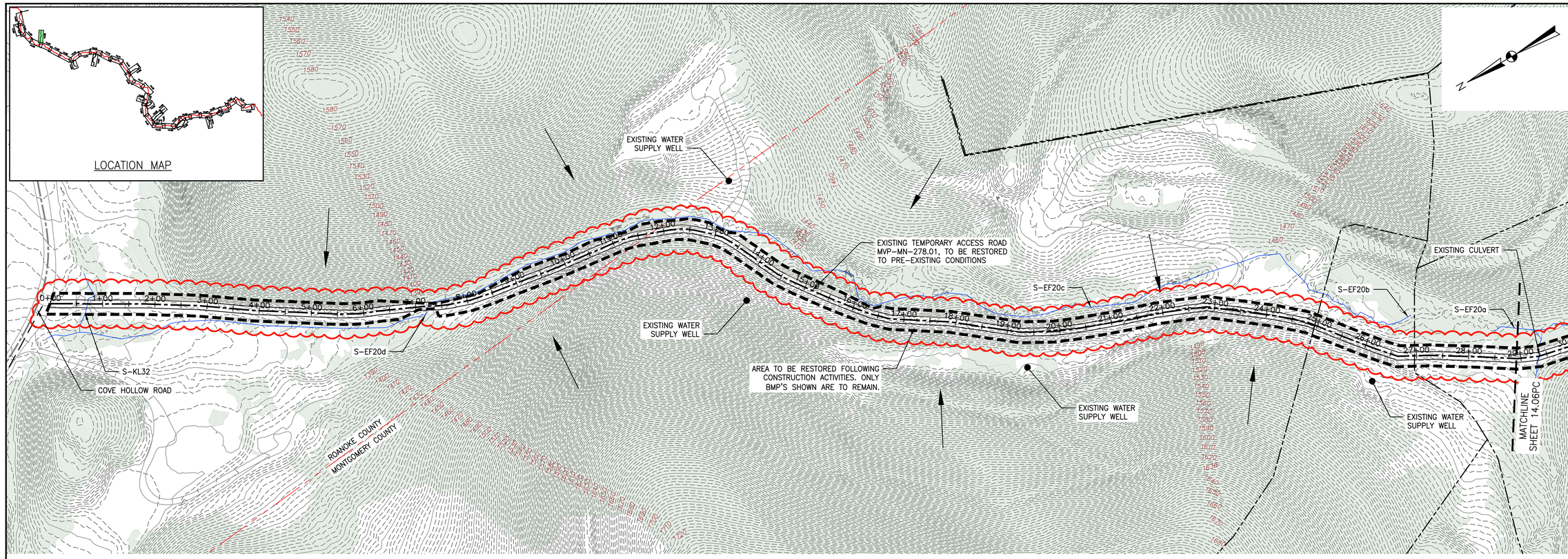
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE: 03/21/2018	REVISION
SCALE: AS SHOWN	

SHT. NO. 14.58PC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 - MVP\13 - Montgomery\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.58(S10).dwg PLOTTED ON: 3/20/2018 4:13 PM PLOTTED BY: Kusiowski, Jim PLOT FILE: ENVIRONMENTAL COLOR.ctb



PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- 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	02/08/19	GAR	RE	DW	ADDRESS VADEQ COMMENTS TO 1-9 FIELD MODIFICATION SUBMITTAL
7	10/01/18	JWK	RE	DW	FIELD MODIFICATION
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – MONTGOMERY COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

2200 ENERGY DRIVE

CANONSBURG, PA 15311

TETRA TECH

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

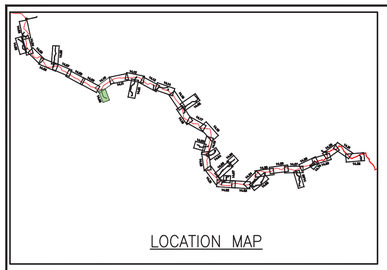
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	GAR
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	02/08/2019
SCALE:	AS SHOWN

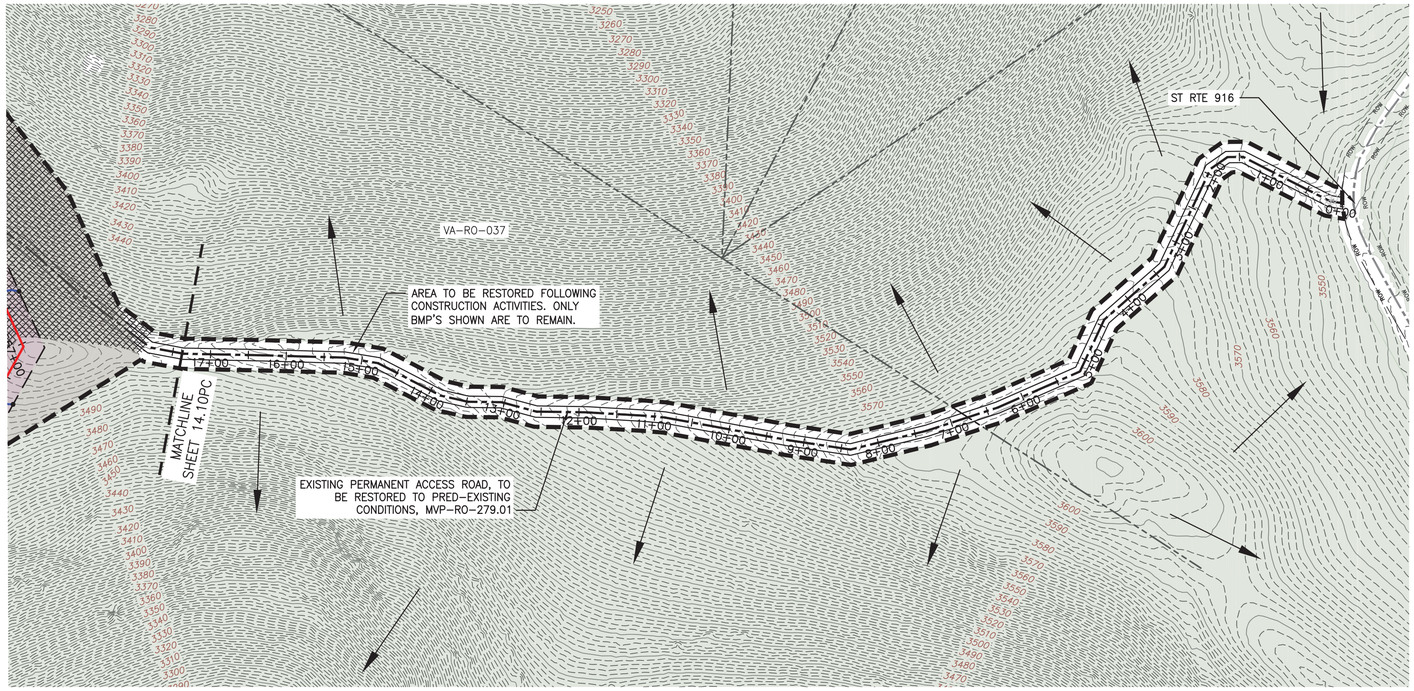
REVISION 1

SHT. NO. 14.59PC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CAD0_Pittsburgh\EQT\7157 – MVP\13 – Montgomery\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.59(S10).dwg PLOTTED ON: 4/10/2019 2:39 PM PLOTTED BY: Kusiowski, Jim PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200

N

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- AFM — AFM — ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
- POND
- WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
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- 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.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

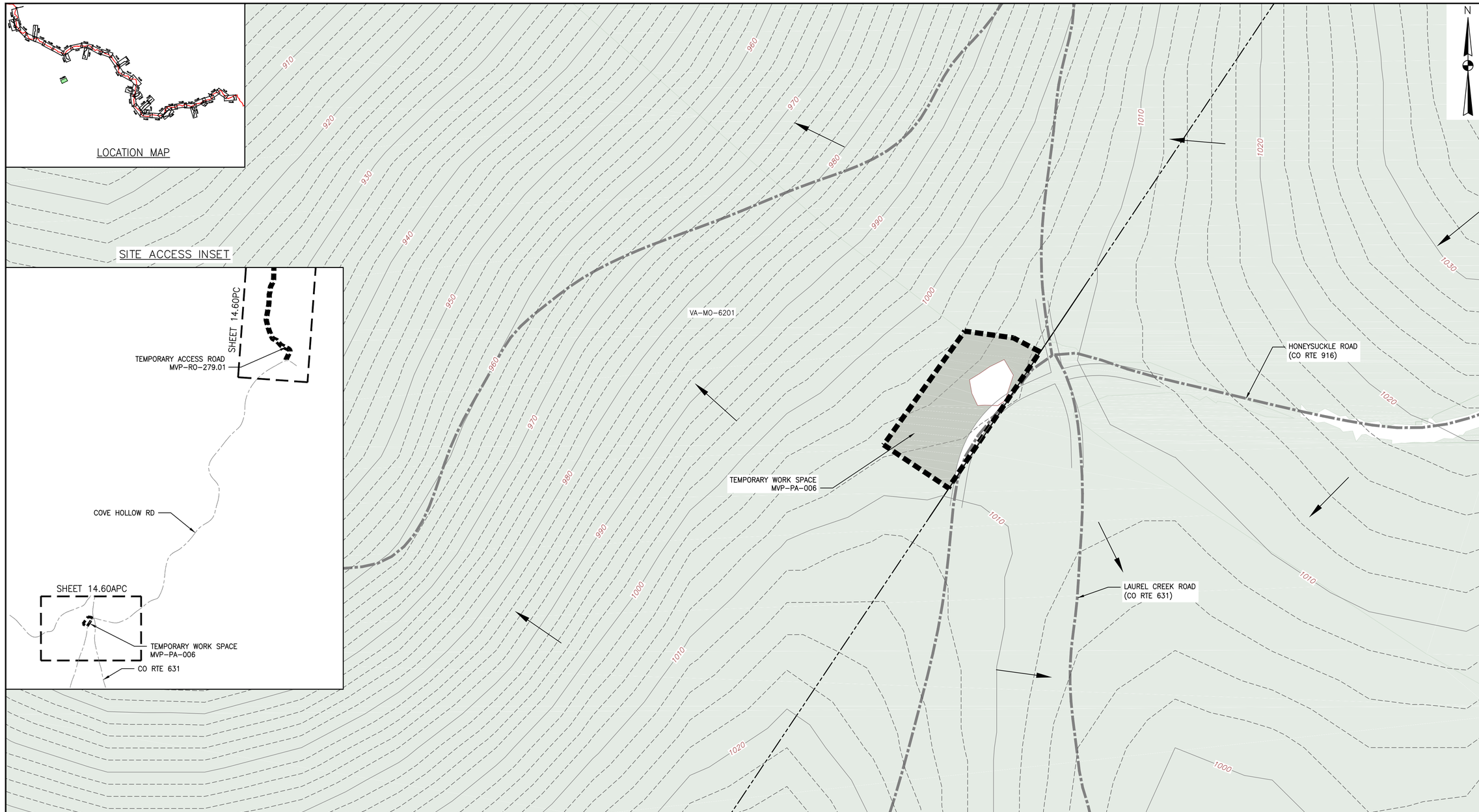
COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 04202057593
PROFESSIONAL ENGINEER

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 14.60PC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EGT\7157 – MVP\14 – Roanoke\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.60(S10).dwg PLOTTED ON: 3/20/2018 4:28 PM PLOTTED BY: Kusiowski, Jim PLOT FILE: ENVIRONMENTAL COLOR.ctb



TOPO DATA SOURCE:

CONTOUR DATA DERIVED FROM RADFORD UNIVERSITY ONLINE RESOURCE

PLAN

SCALE: 1" = 50'

50 0 50 100

LEGEND

- EXISTING PROPERTY LINE
- 1160 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

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
1	02/13/20	GAR	RE	DW	ADDRESS VADEQ COMMENTS
0	07/12/19	JK	RE	DW	TEMPORARY WORK SPACE ADDED TO FACILITATE TRUCK TURNAROUND

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – MONTGOMERY COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

2200 ENERGY DRIVE

CANONSBURG, PA 15317

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PITTSBURGH, PA 15220

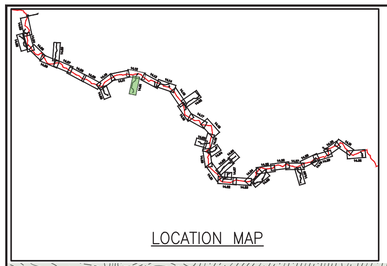
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

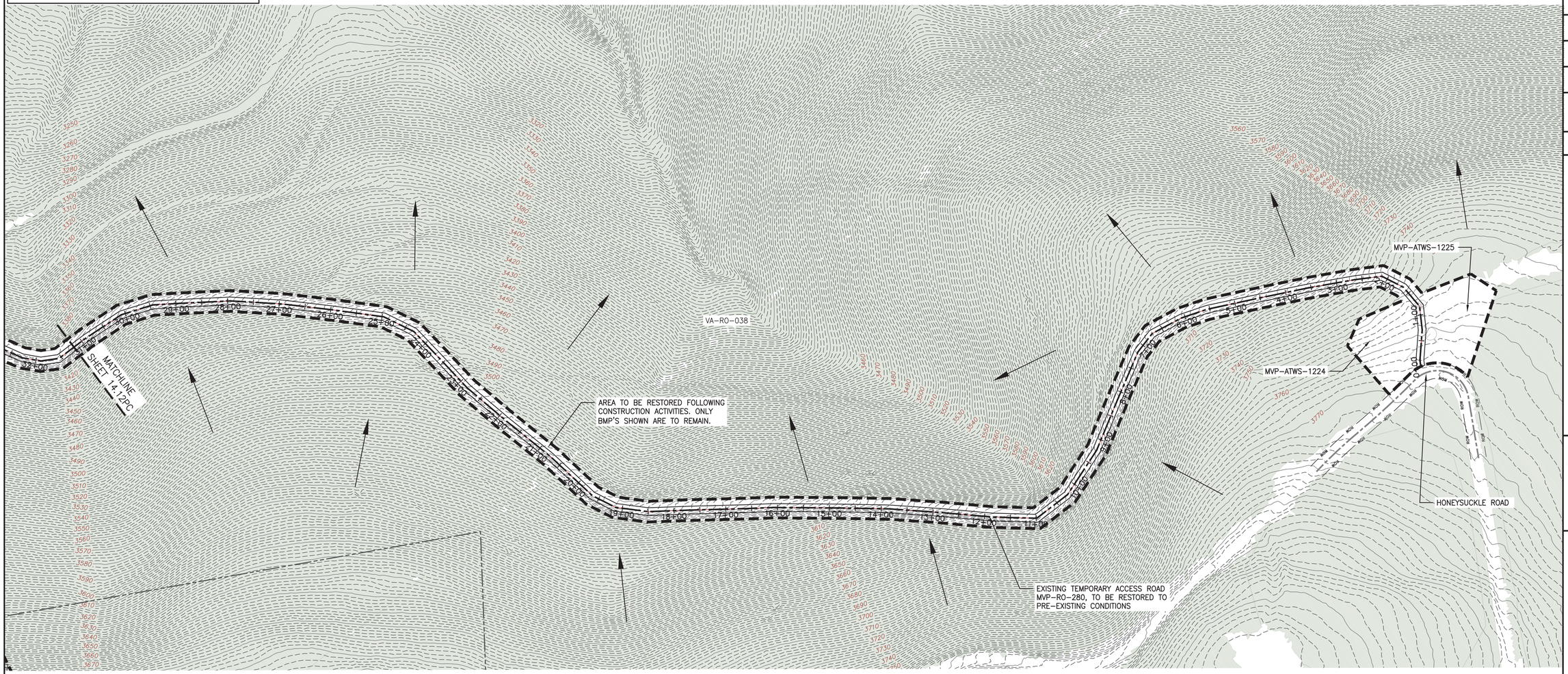
COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	JK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	02/13/2020
SCALE:	AS SHOWN
SHT. NO.	14.60APC OF 14.77PC

1 REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\13 – Montgomery\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.60A(S10).dwg PLOTTED ON: 2/17/2020 1:19 PM PLOTTED BY: Rickabaugh, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb





LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- AFM — 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
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- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
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- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

PLAN

SCALE: 1" = 100'

100 0 100 200

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:
5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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

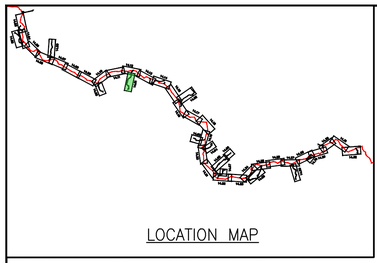
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

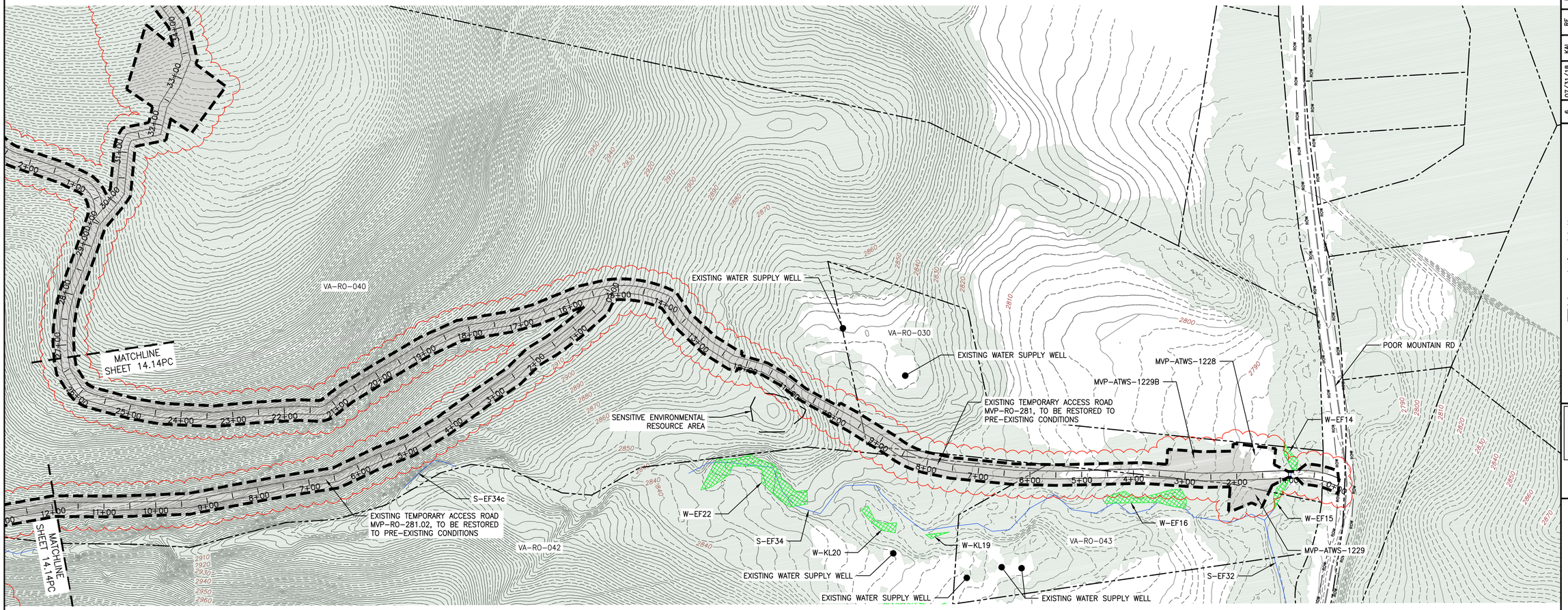
DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 14.61PC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EGT\7157 – MVP\14 – Roanoke\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.61(S10).dwg PLOTTED ON: 3/20/2018 4:26 PM PLOTTED BY: Kusiowski, Jim PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- 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.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	07/31/18	KAL	RE	DW	FIELD MODIFICATION
5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – ROANOKE COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15311

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

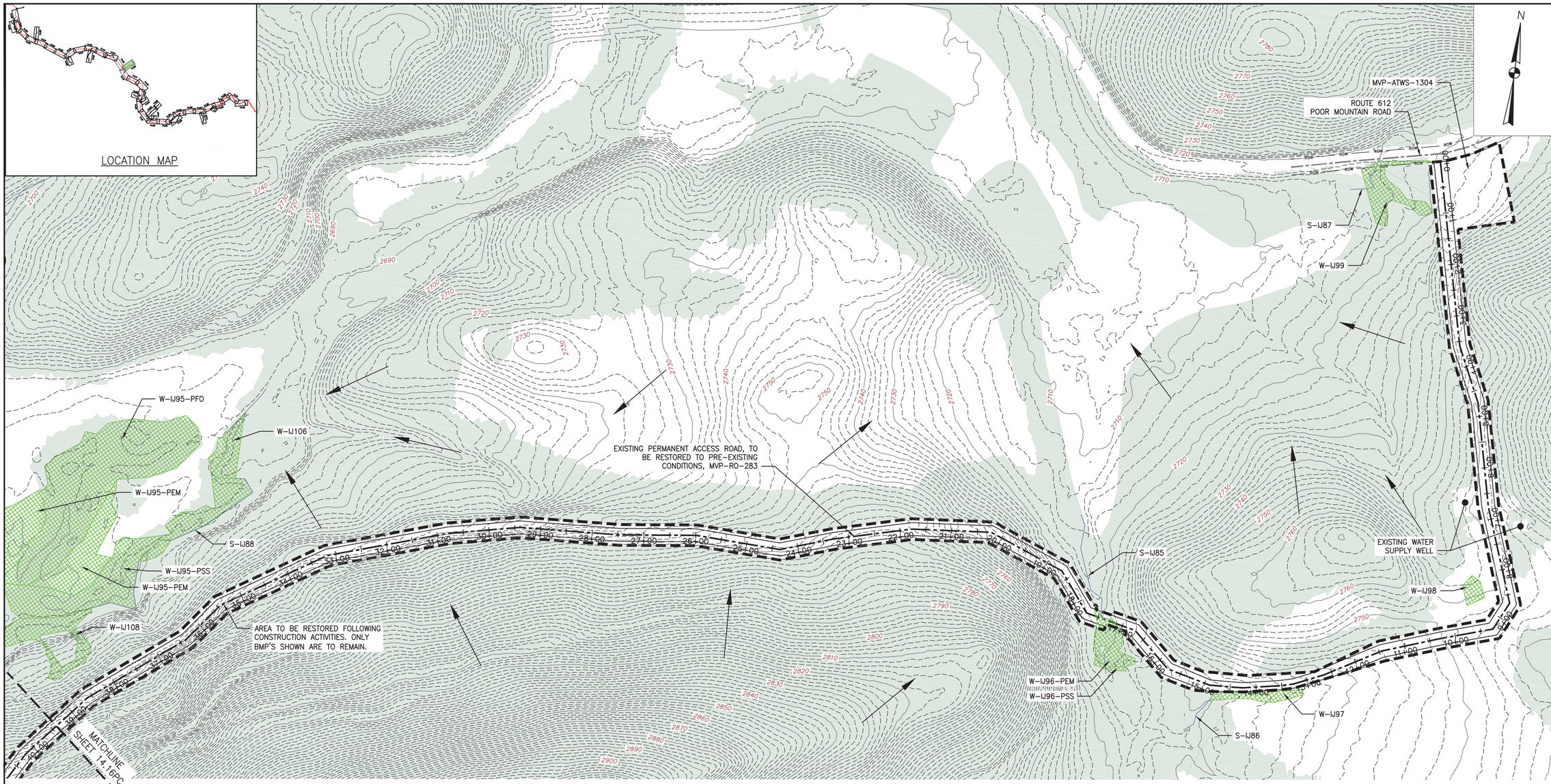
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	07/31/2018
SCALE:	AS SHOWN
REVISION	6

SHT. NO. 14.61APC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\14 – Roanoke\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.61A(S10).dwg PLOTTED ON: 7/31/2018 10:50 AM PLOTTED BY: Rickabough, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb



PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
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- PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
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- WETLAND
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- EXISTING FOREST
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NOTES:

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	
SHT. NO.	14.62PC OF 14.77PC

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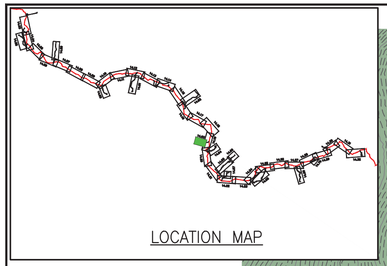

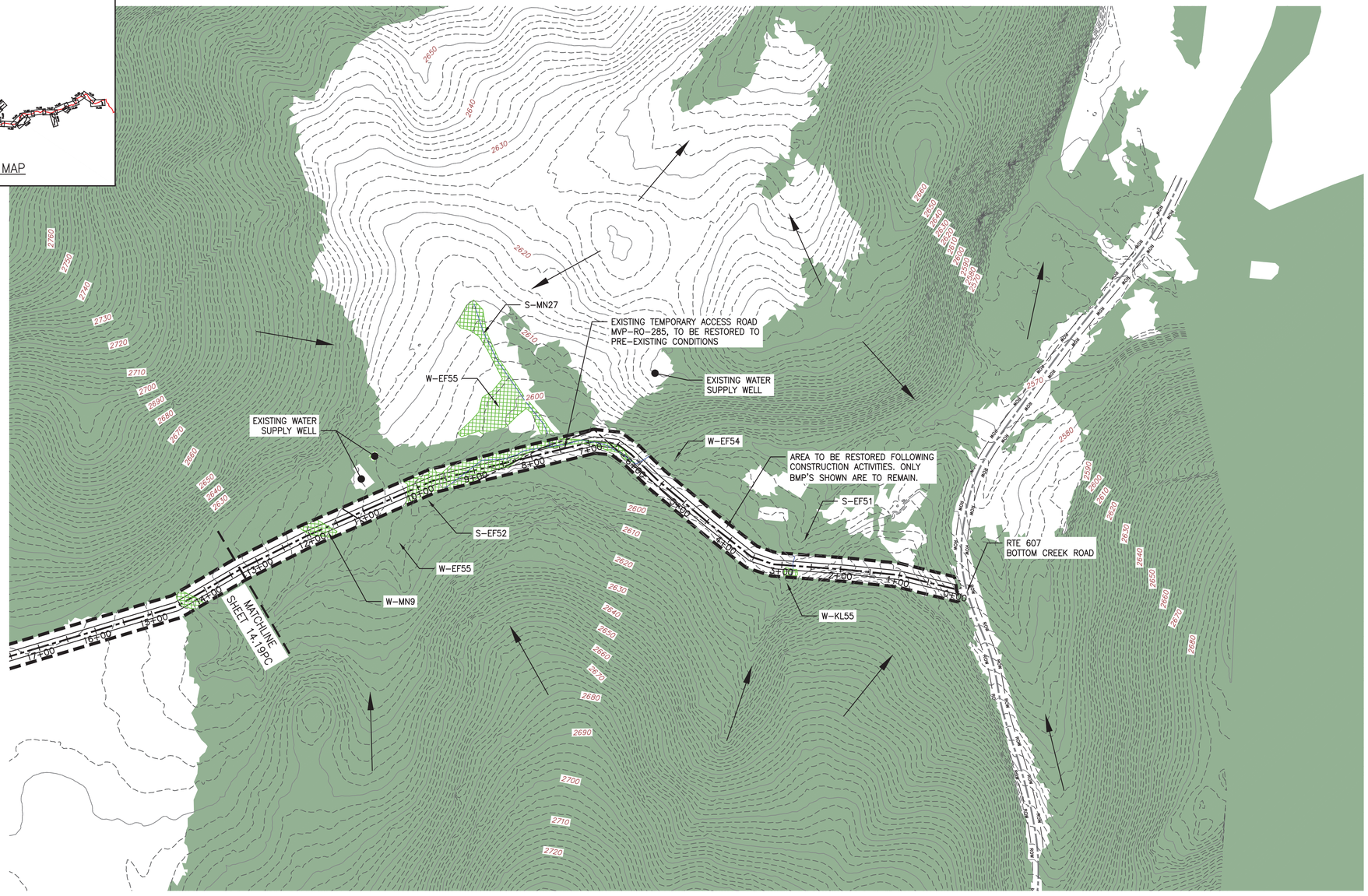

PLAN

SCALE: 1" = 100'

100 0 100 200

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:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE: 03/21/2018	REVISION
SCALE: AS SHOWN	
SHT. NO. 14.63PC OF 14.77PC	

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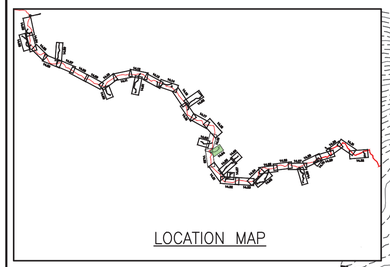

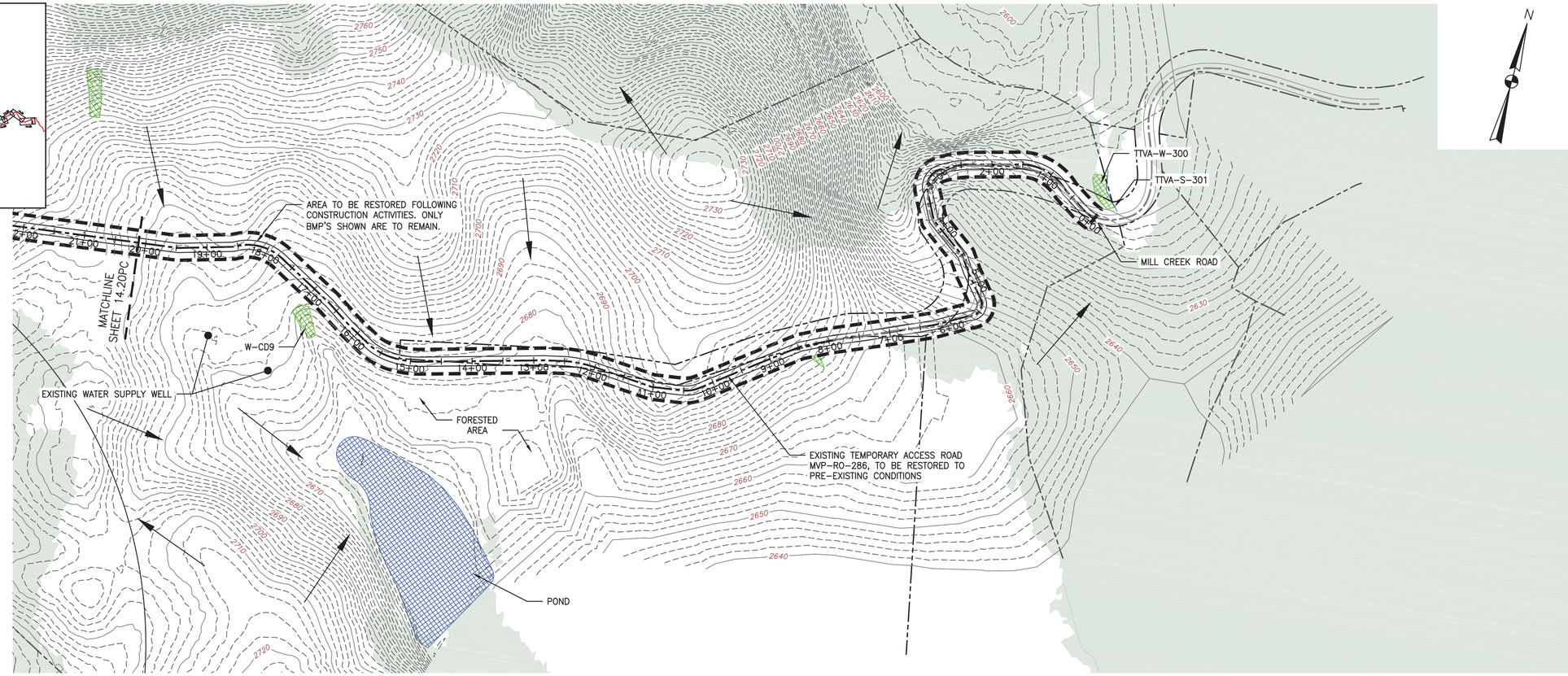

PLAN
SCALE: 1" = 100'
100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- AFM — ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
- POND
- WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
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- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

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5	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 14.64PC OF 14.77PC

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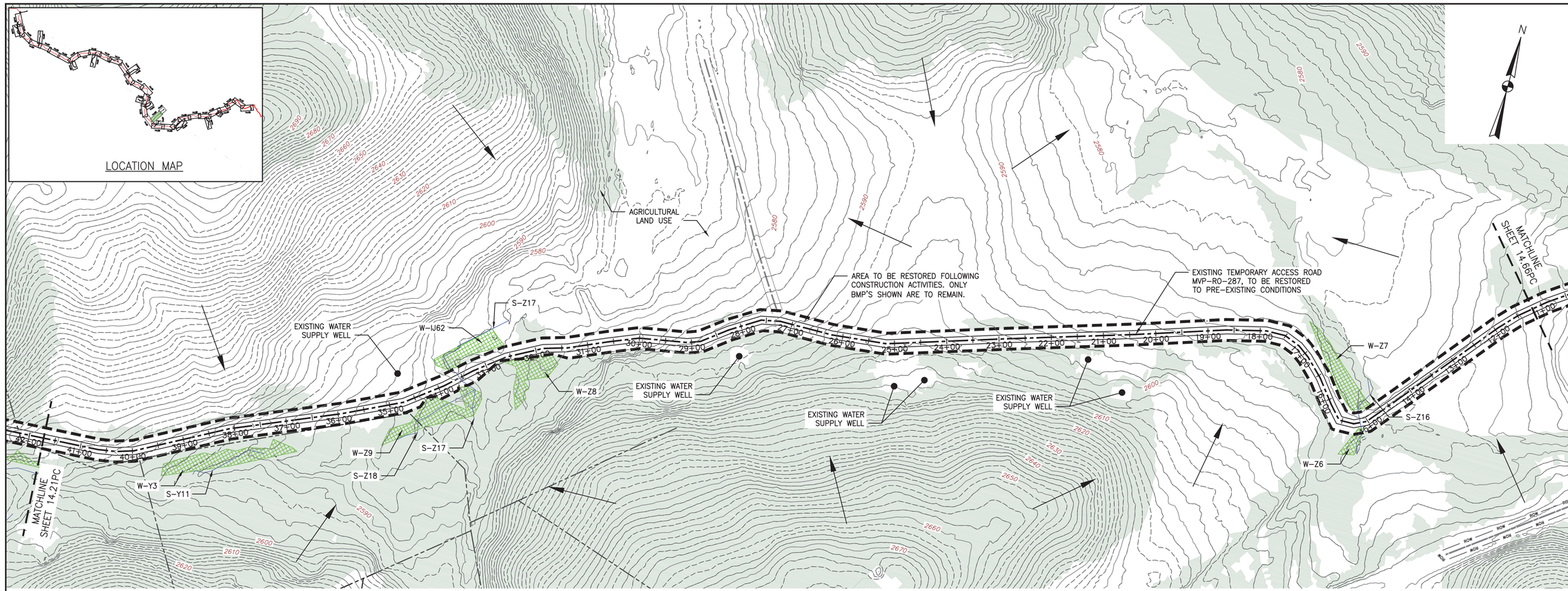

PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
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1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – ROANOKE COUNTY, VIRGINIA

Mountain Valley PIPELINE

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

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
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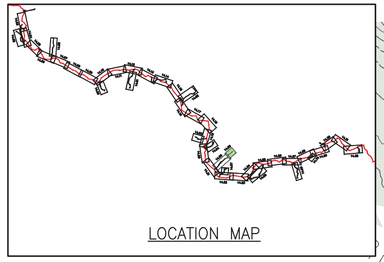

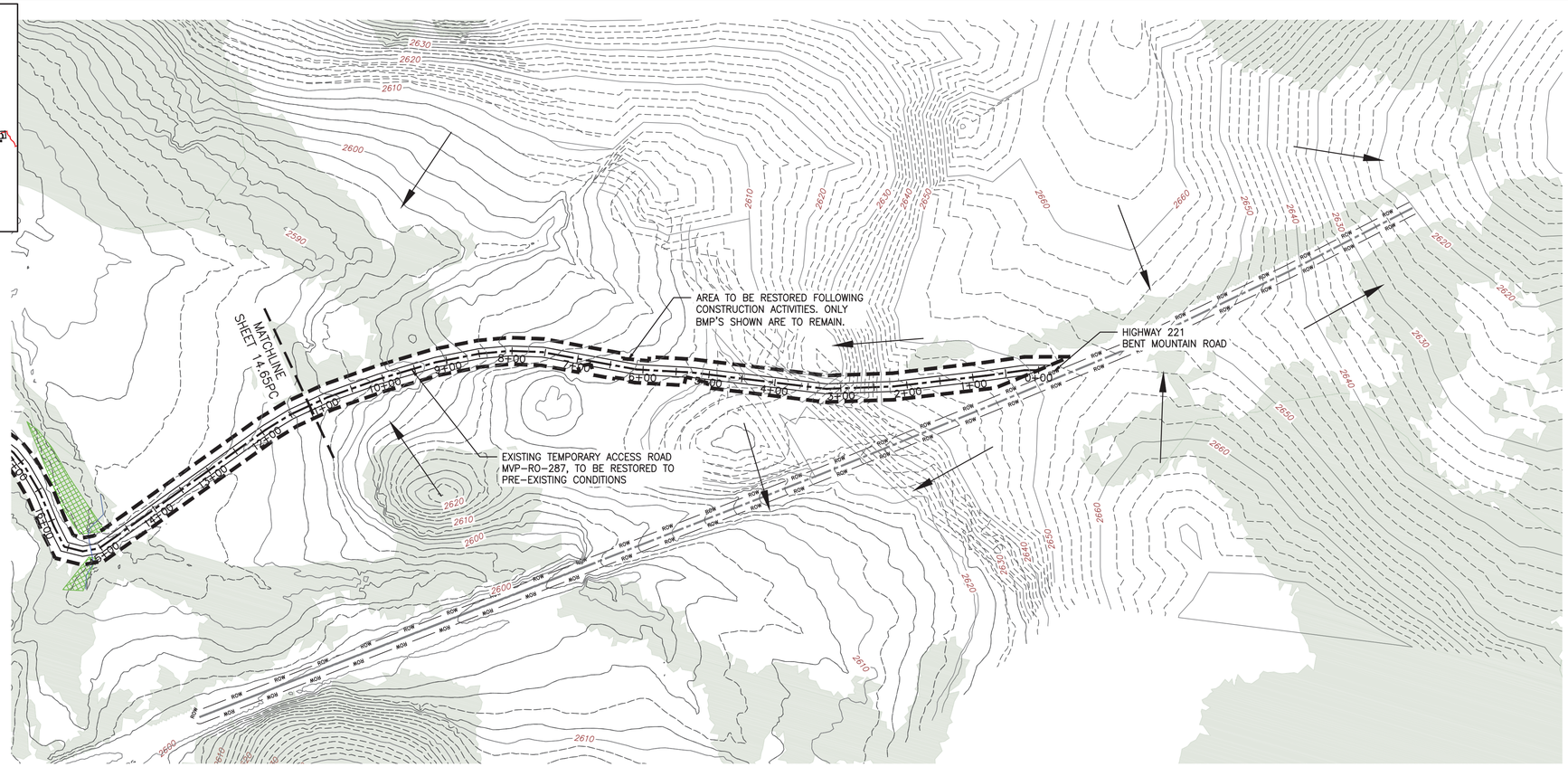

PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
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- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – ROANOKE COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15311

TETRA TECH

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 14.66PC OF 14.77PC

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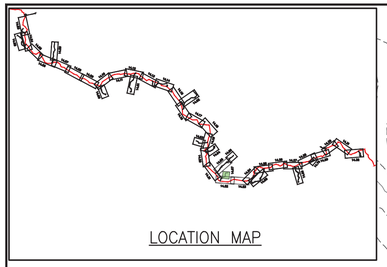

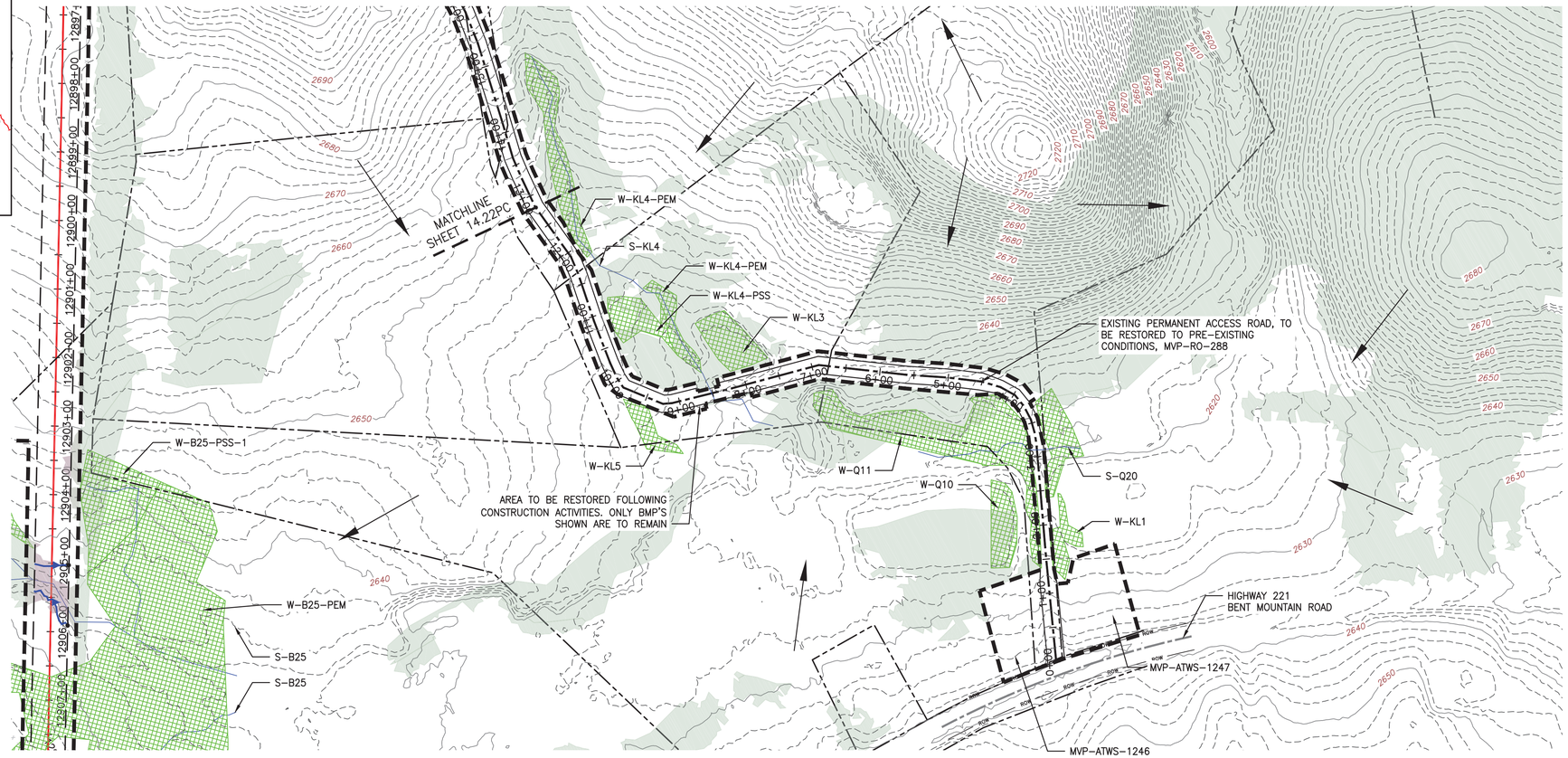

PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
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4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – ROANOKE COUNTY, VIRGINIA

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

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 04002057593
PROFESSIONAL ENGINEER

DRAWN BY:	LJK
CHECKED BY:	JRK
APPROVED BY:	RE
DATE: 03/21/2018	REVISION
SCALE: AS SHOWN	
SHT. NO. 14.67PC OF 14.77PC	

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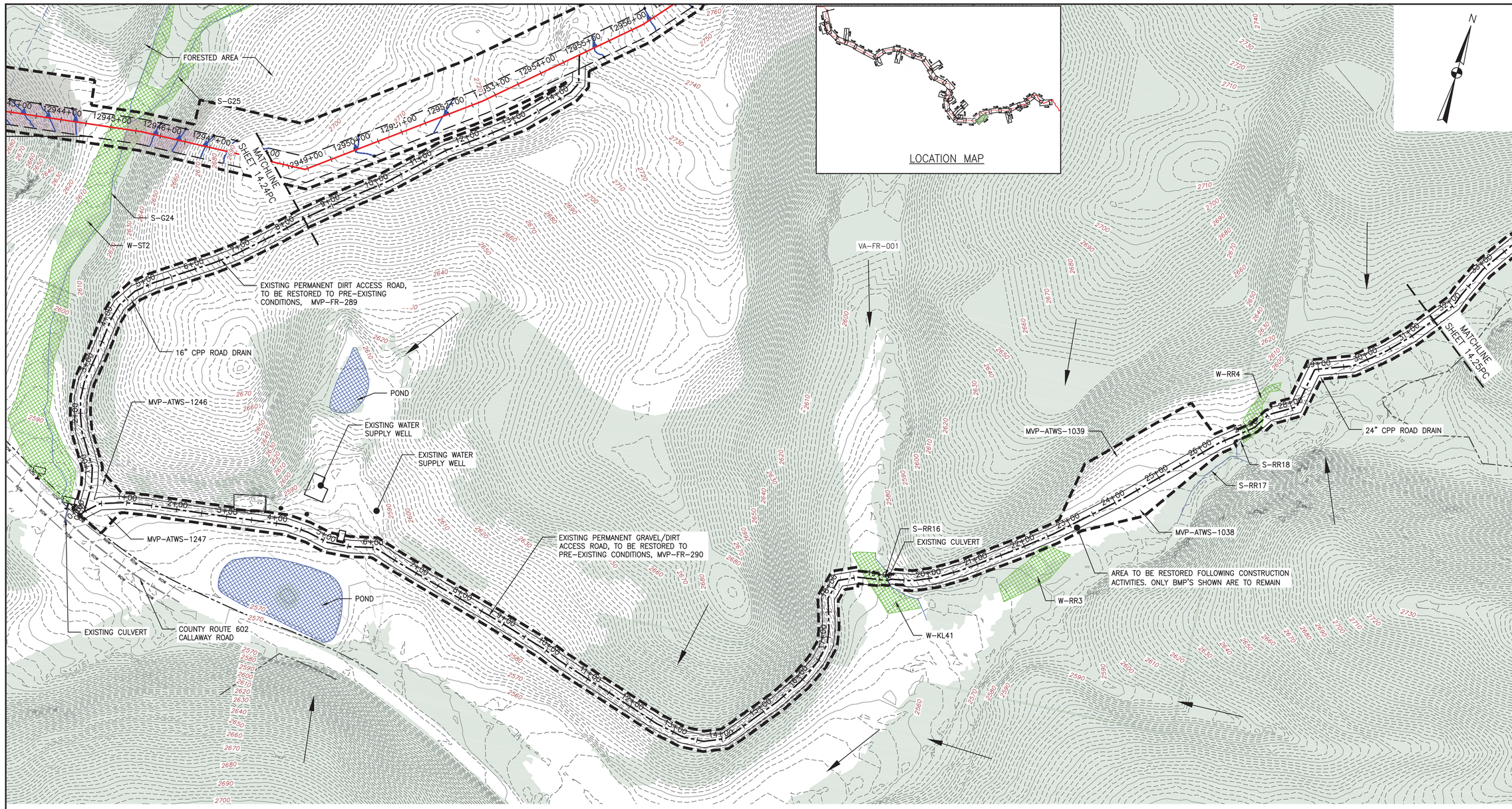

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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REVISIONS:

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

Mountain Valley PIPELINE

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE: 03/21/2018	REVISION
SCALE: AS SHOWN	

SHT. NO. 14.68PC OF 14.77PC

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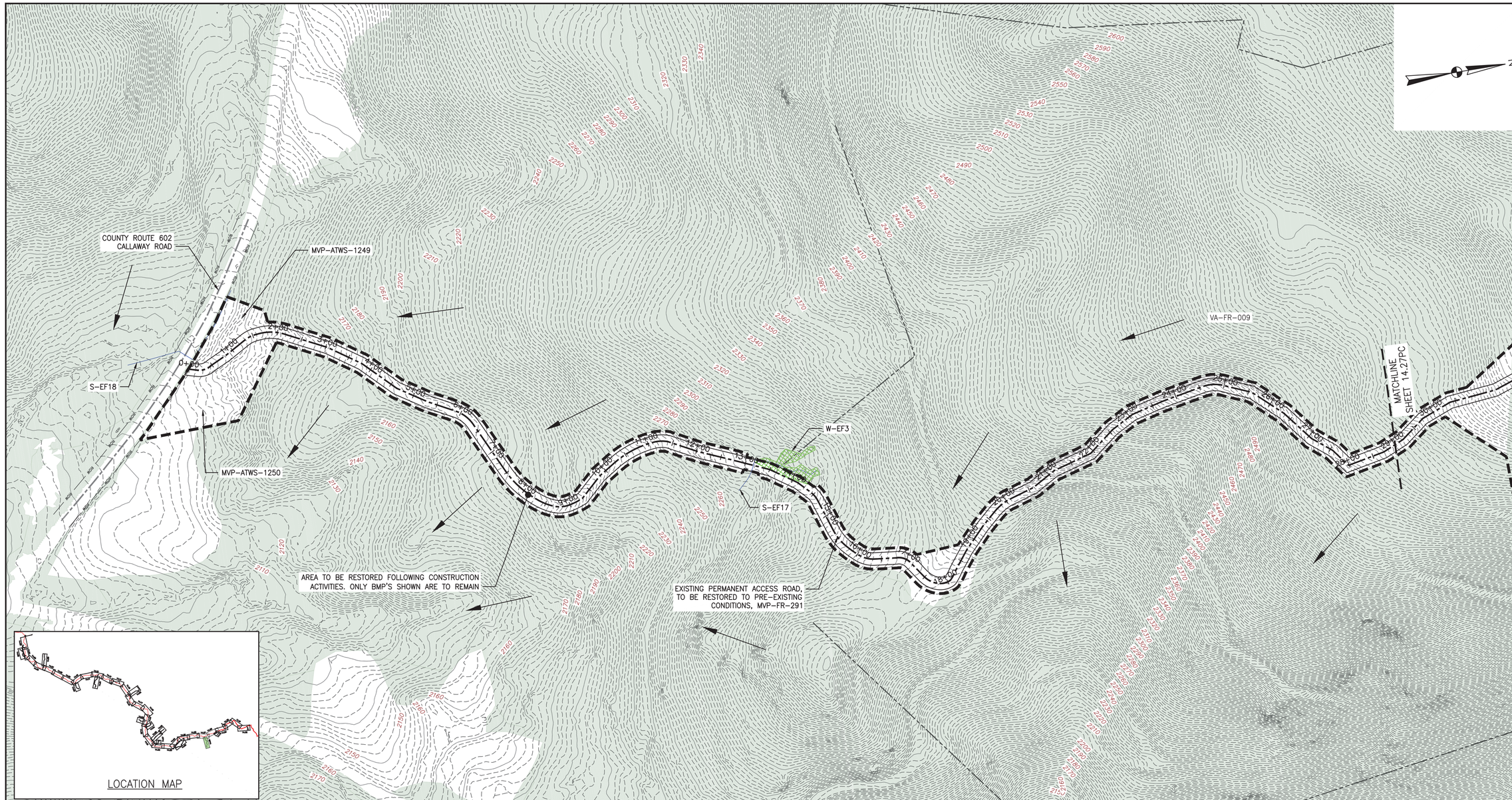

PLAN

SCALE: 1" = 100'

100 0 100 200

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:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15317

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	6

SHT. NO. 14.69PC OF 14.77PC

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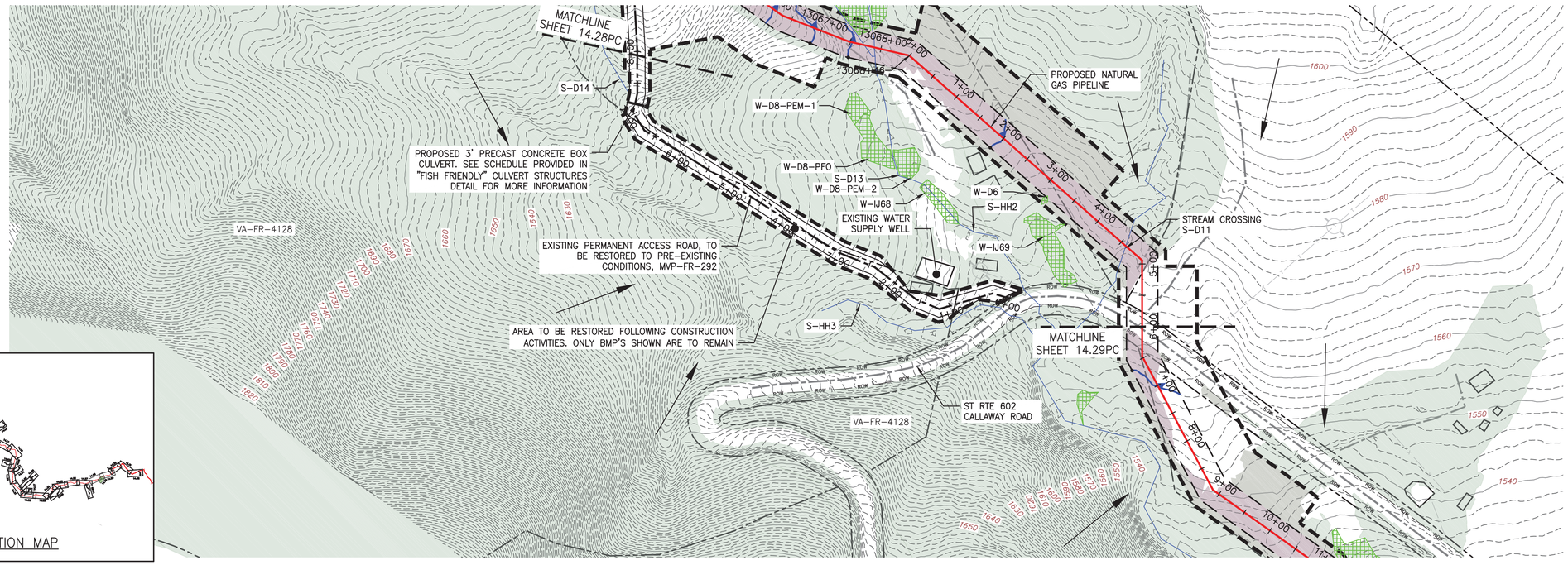

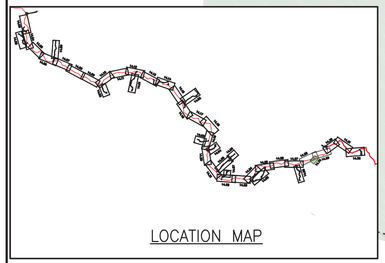

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200

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:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE: 03/21/2018	REVISION
SCALE: AS SHOWN	

SHT. NO. 14.70PC OF 14.77PC

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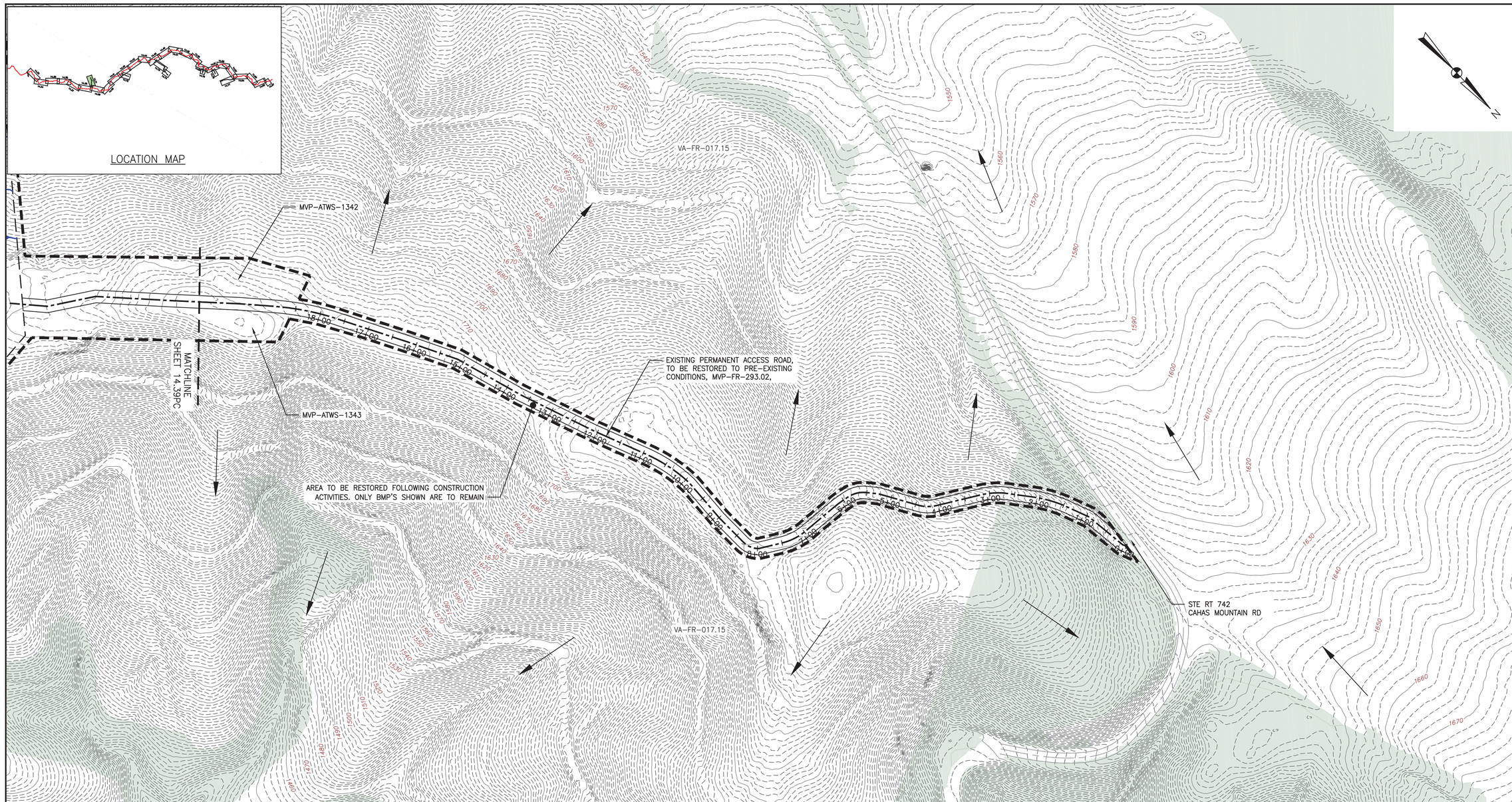

PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

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4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
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APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	6

SHT. NO. 14.71PC OF 14.77PC

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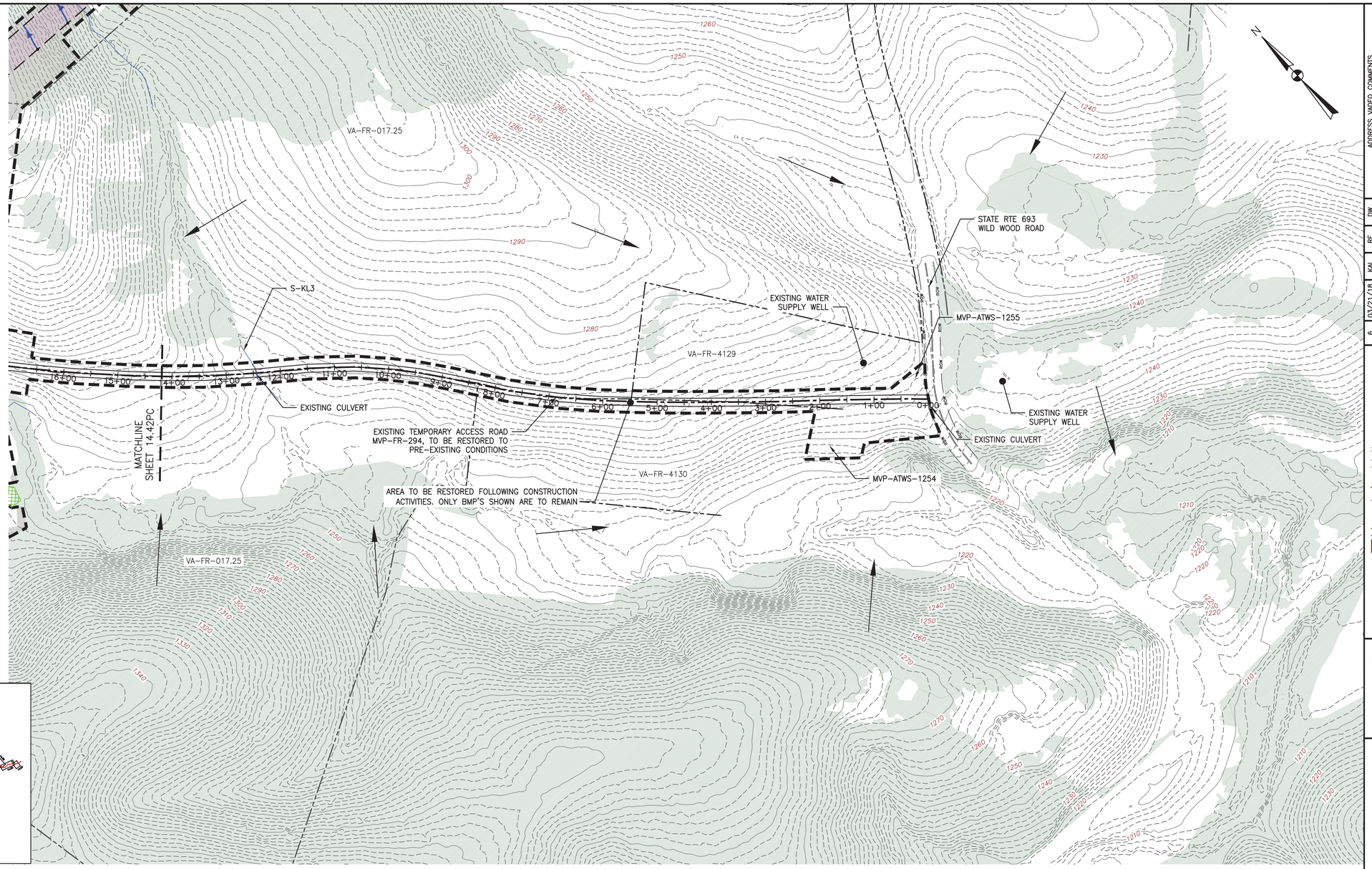

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)
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- 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:

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
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SHT. NO. 14.72PC OF 14.77PC

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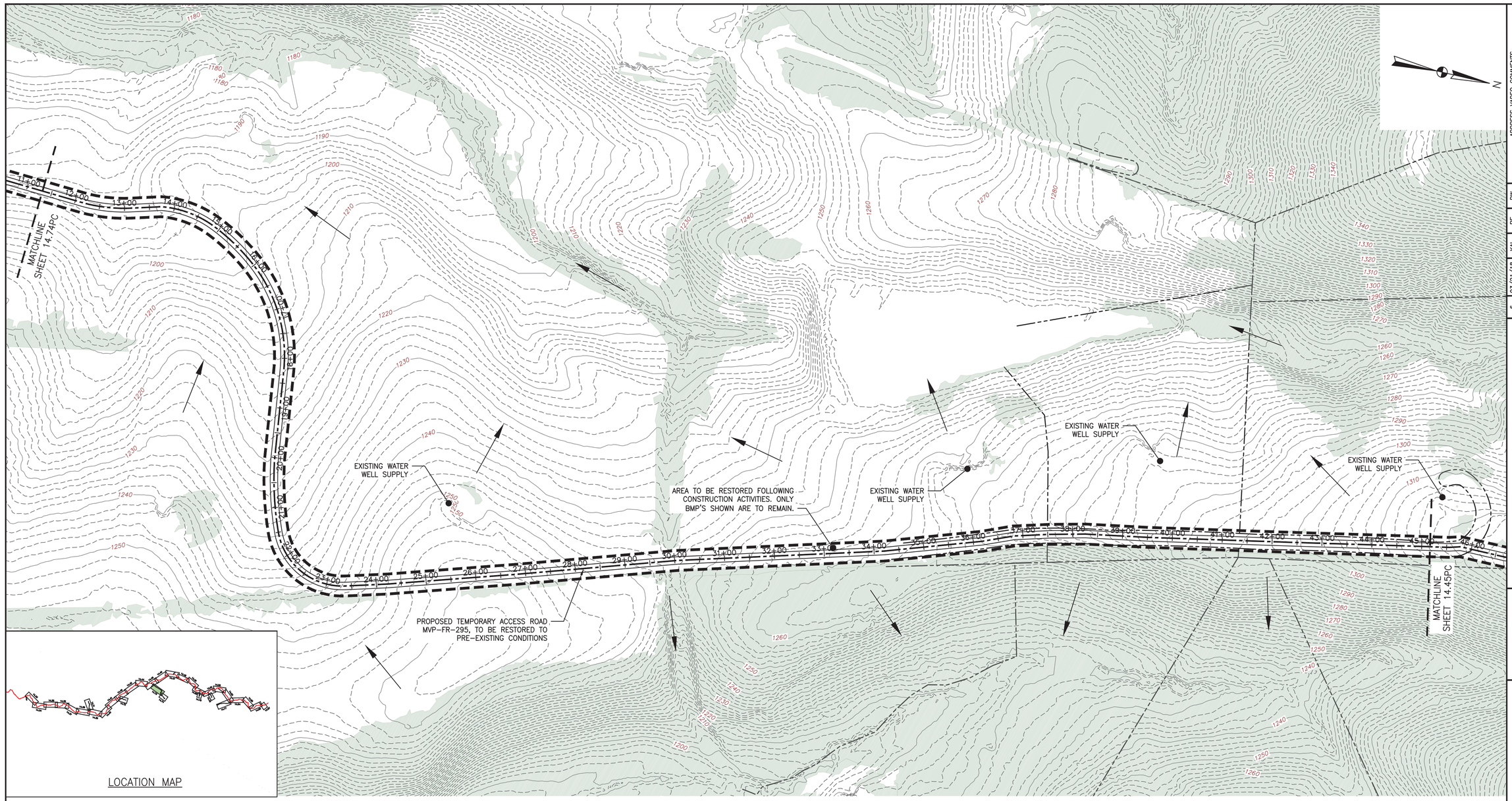

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- PROPOSED PIPELINE
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- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT
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- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

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3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
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SHT. NO. 14.73PC OF 14.77PC

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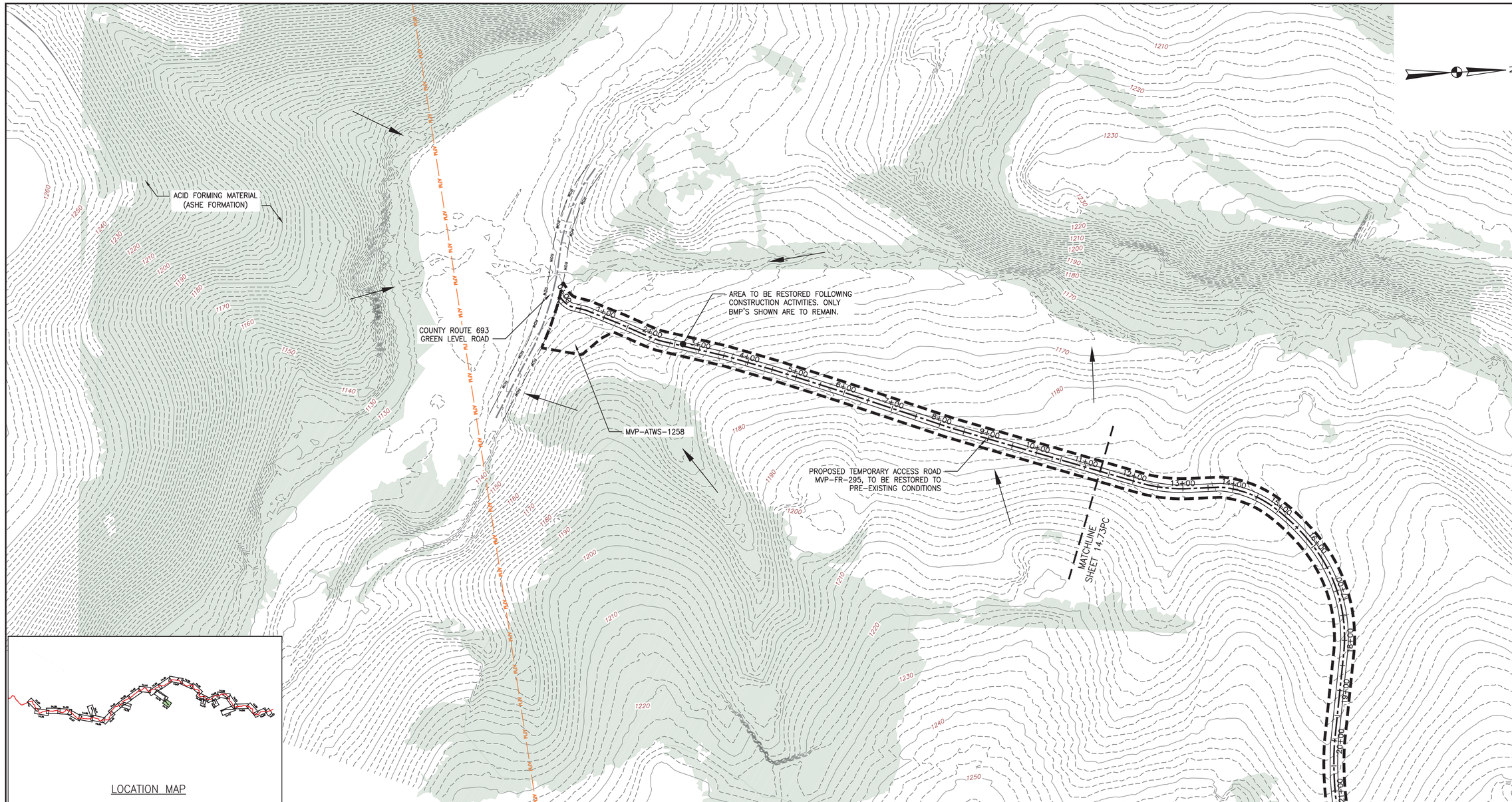

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- PROPOSED LIMIT OF DISTURBANCE
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- PROPOSED LEVEL SPREADER
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- 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:

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3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
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APPROVED BY:	RE
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SCALE:	AS SHOWN
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SHT. NO. 14.74PC OF 14.77PC

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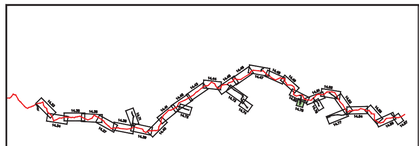
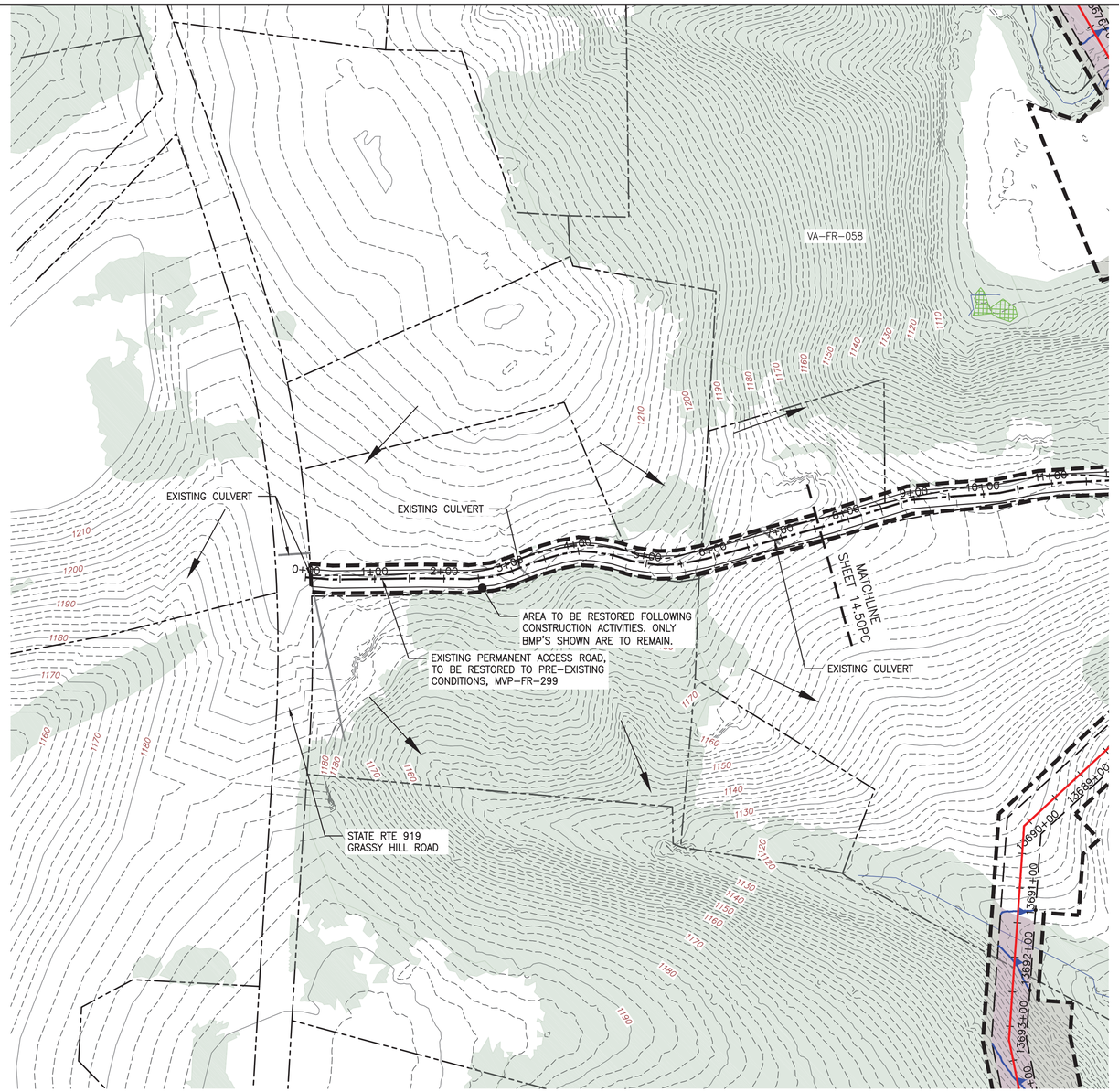


LOCATION MAP



N

PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/21/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

555 SOUTHPOINTE BOULEVARD, SUITE 200

CANONSBURG, PA 15317

TETRA TECH

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

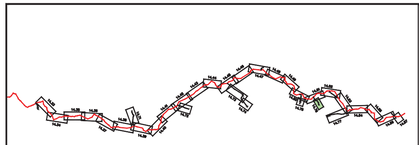
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

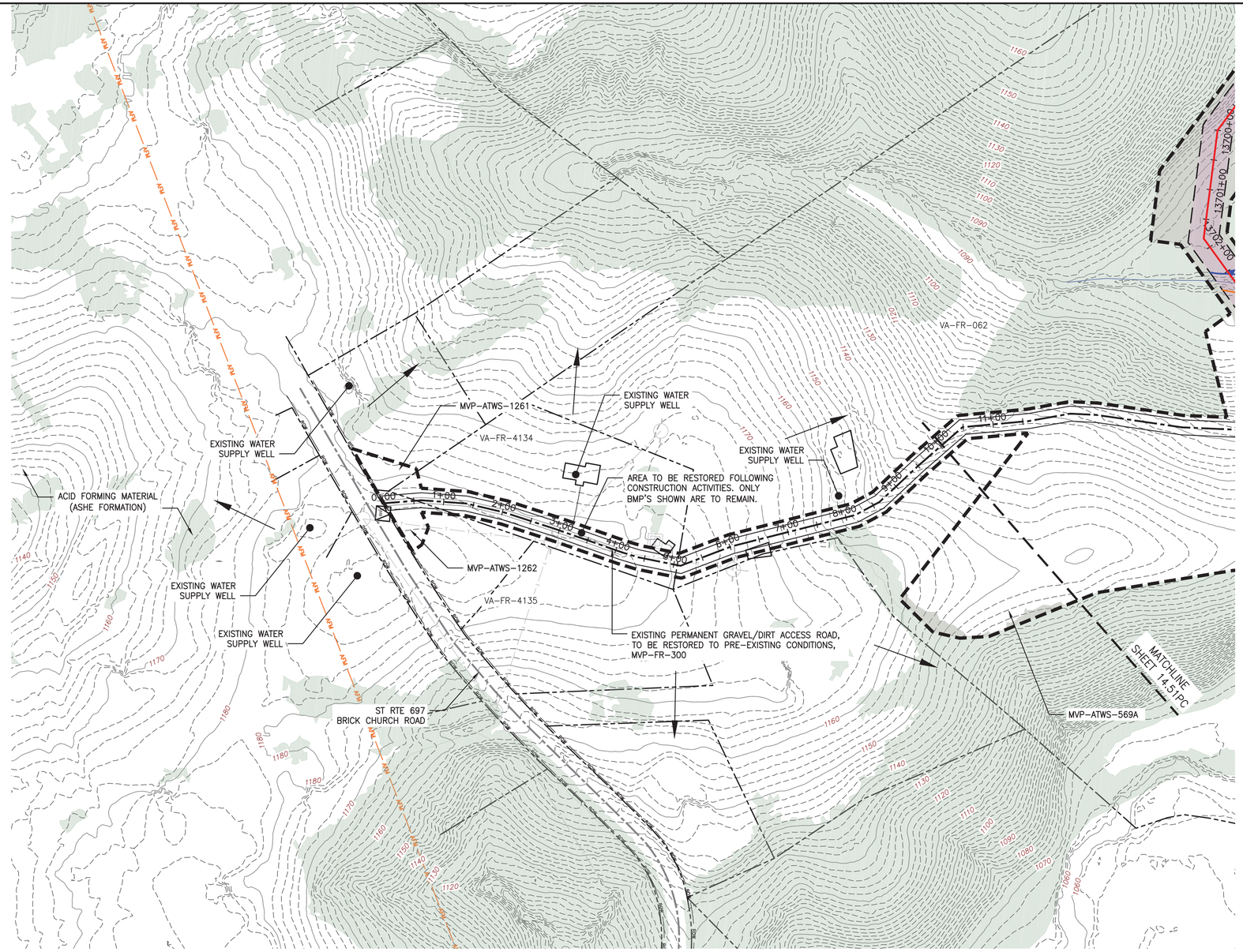
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 14.75PC OF 14.77PC

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\PC\PC VERSION 5.0.0\SPREAD 10\7157PC14.75(S10).dwg PLOTTED ON: 3/20/2018 3:26 PM PLOTTED BY: Kusiowski, Jim PLOT FILE: ENVIRONMENTAL COLOR.ctb



LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200

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:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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REVISIONS:

Mountain Valley PIPELINE

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
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DATE:	03/21/2018
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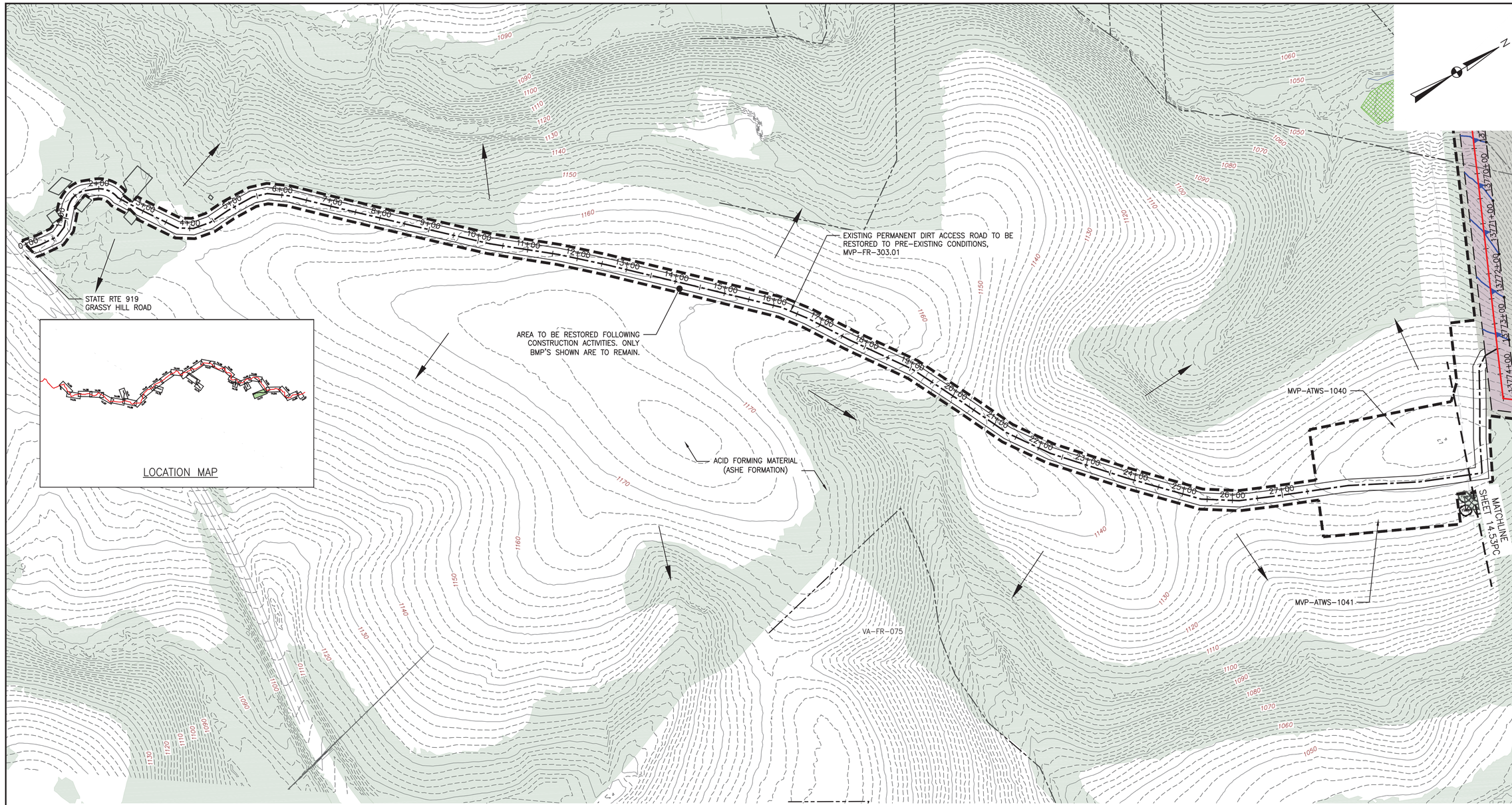

PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- EXISTING CULVERT
- STREAM
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- EXISTING ROAD/TRAIL
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