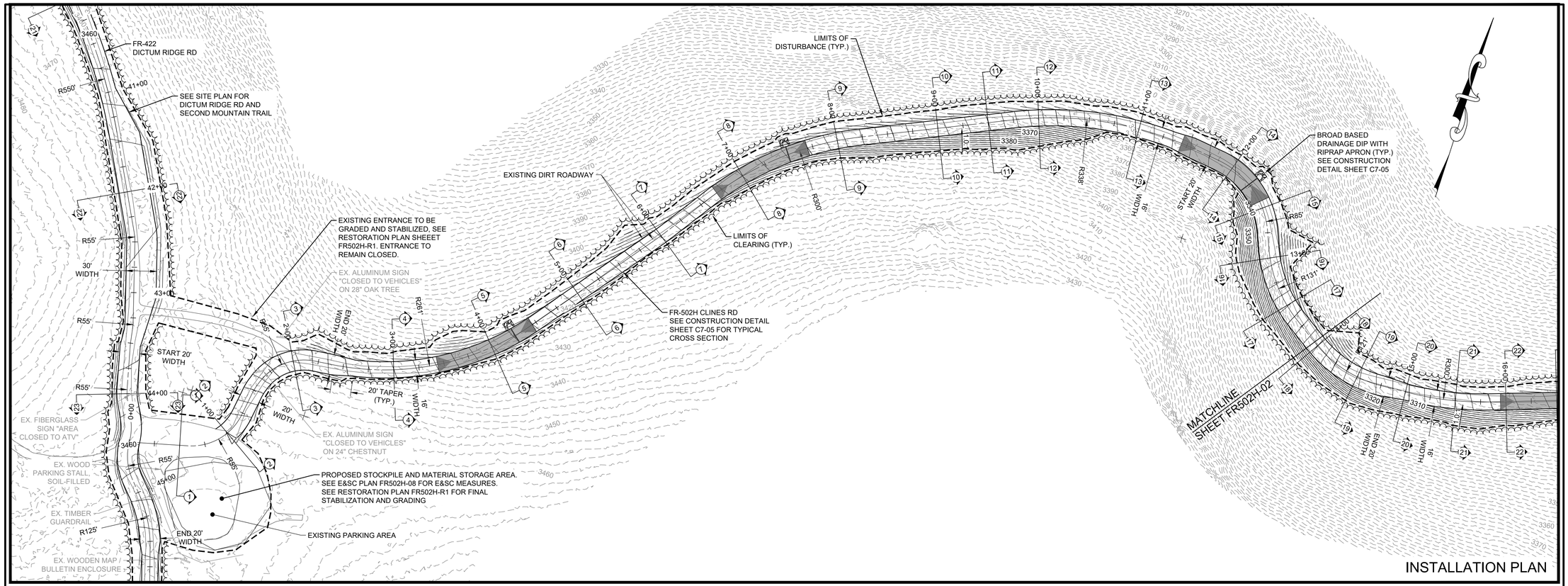
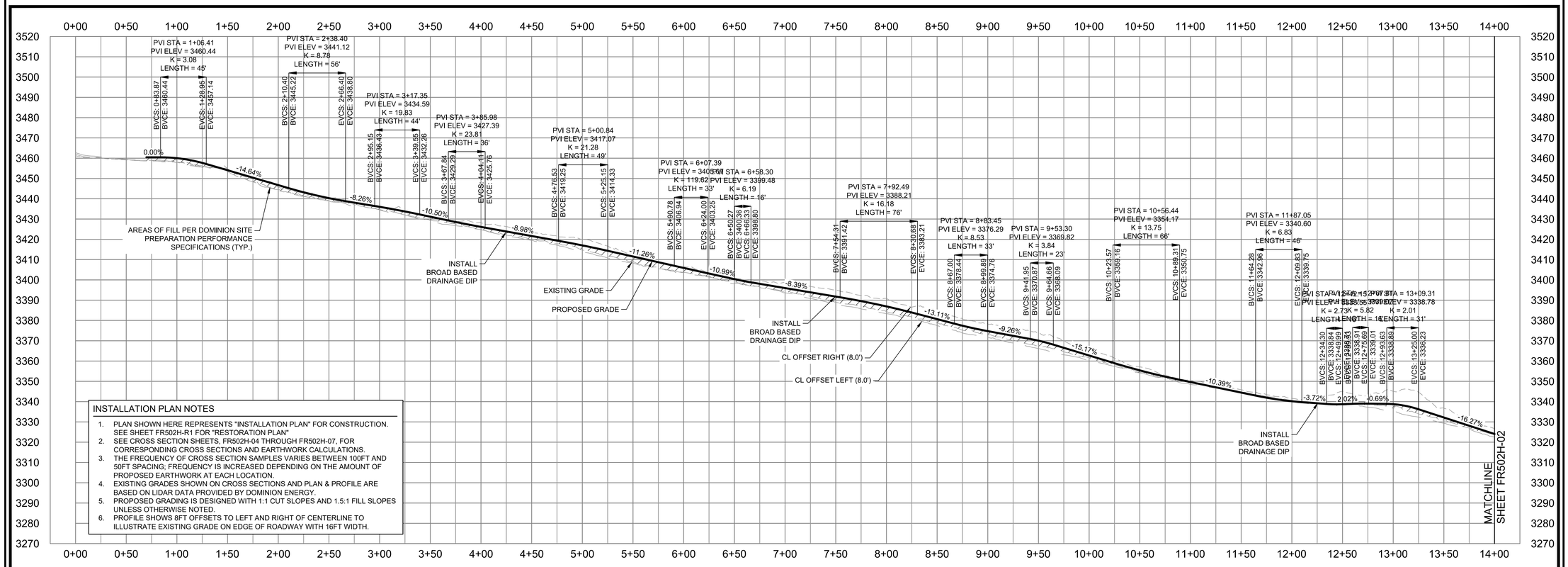


INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET FR502H-R1 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEETS, FR502H-04 THROUGH FR502H-07, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
3. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
4. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
5. PROPOSED GRADING IS DESIGNED WITH 1:1 CUT SLOPES AND 1.5:1 FILL SLOPES UNLESS OTHERWISE NOTED.
6. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

Dewberry

Dewberry Engineers Inc.
4805 LAKE BROOK DRIVE
SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
804.290.7928 (FAX)

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	03/05/2021

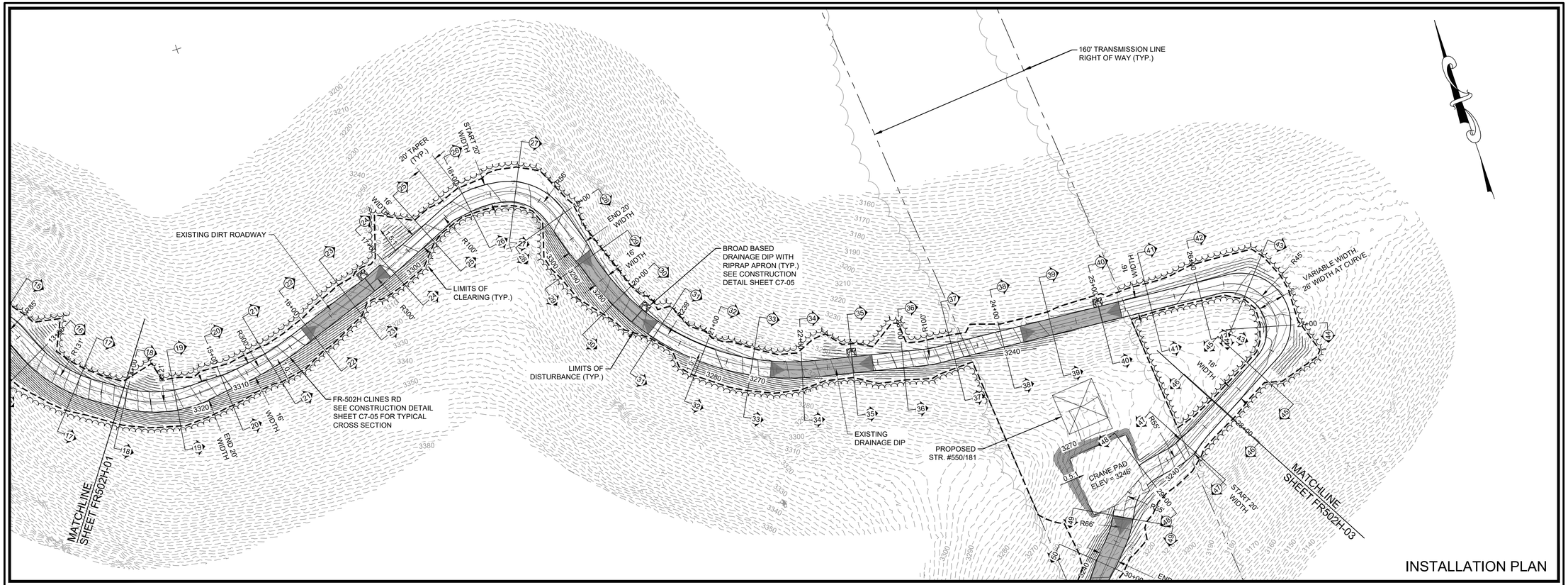
TITLE

FR502H CLINES RD
TO STR. #181-182
PLAN & PROFILE

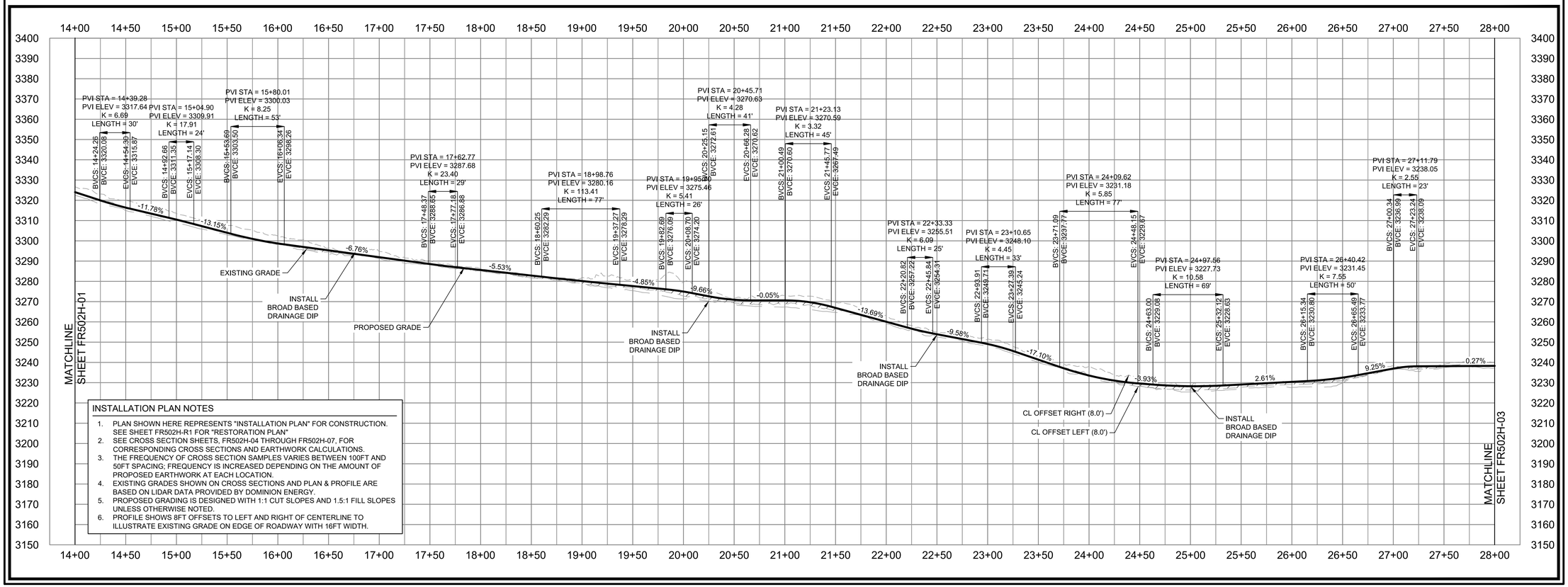
PROJECT NO. 50106442

FR502H-01

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET FR502H-R1 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEETS, FR502H-04 THROUGH FR502H-07, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
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TRANSMISSION LINE REBUILD
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CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

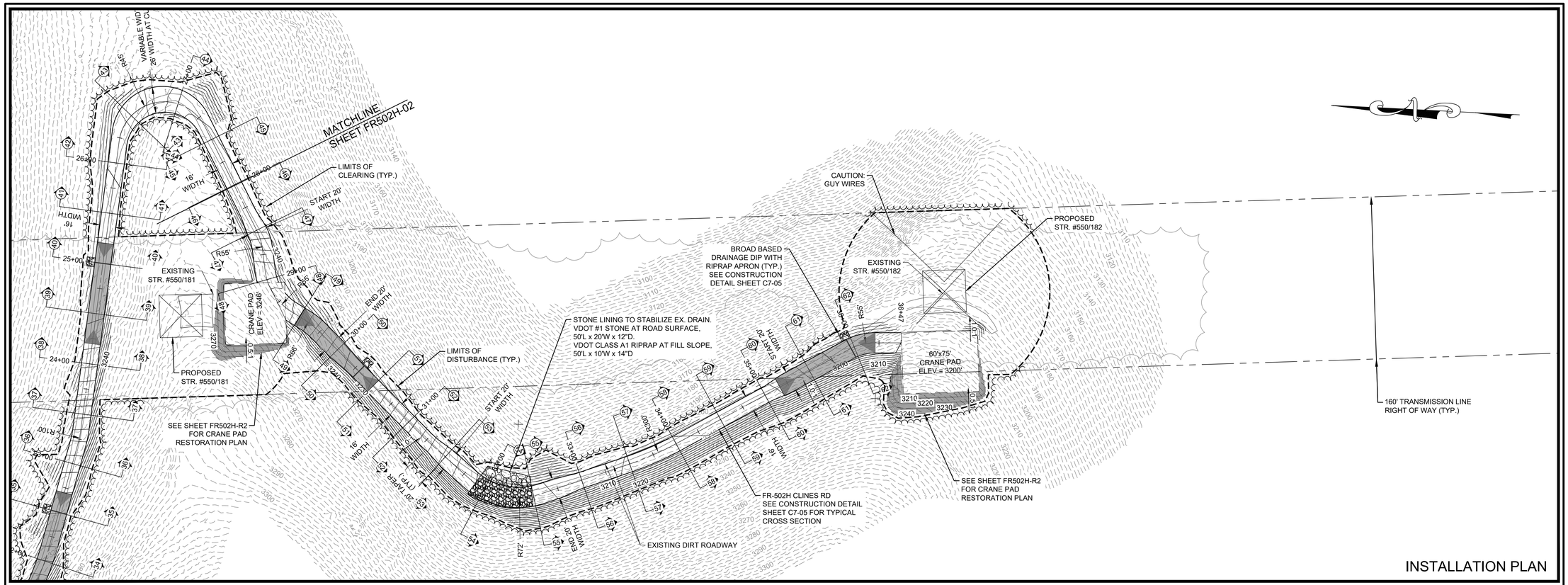
TITLE

FR502H CLINES RD
TO STR. #181-182
PLAN & PROFILE

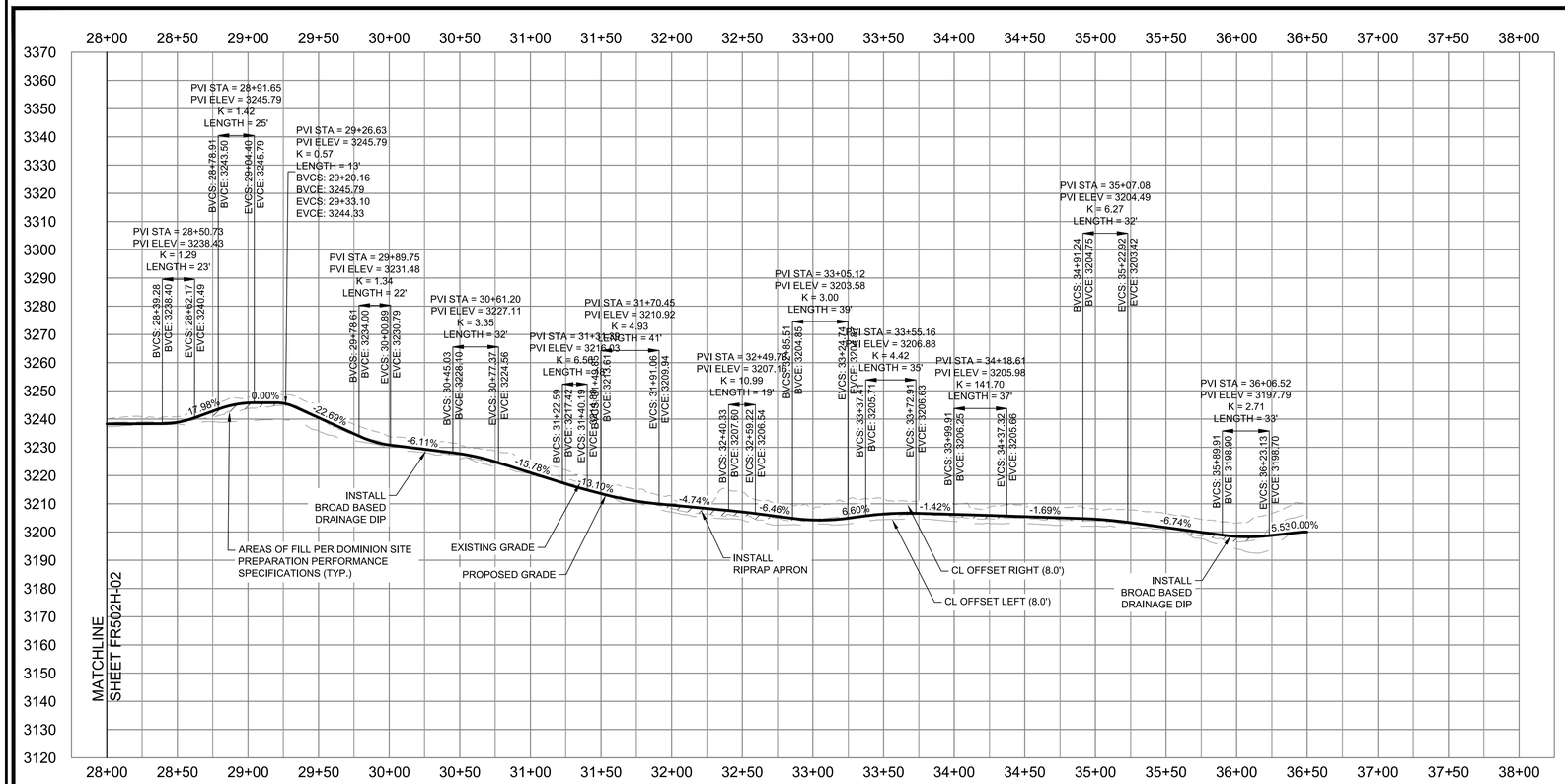
PROJECT NO. 50106442

FR502H-02

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET FR502H-R2 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEETS, FR502H-04 THROUGH FR502H-07, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
3. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

No.	DATE	BY	Description
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REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

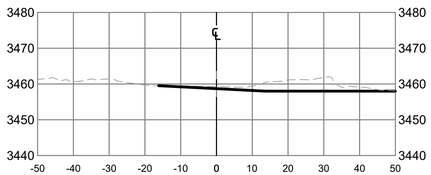
TITLE
FR502H CLINES RD
TO STR. #181-182
PLAN & PROFILE

PROJECT NO. 50106442

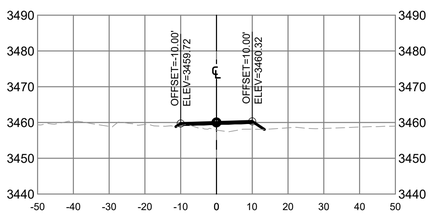
FR502H-03

SHEET NO.

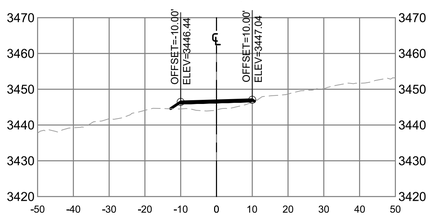
FR502H - CLINES RD #1, STATION 0+50.0



FR502H - CLINES RD #2, STATION 1+00.0



FR502H - CLINES RD #3, STATION 2+00.0



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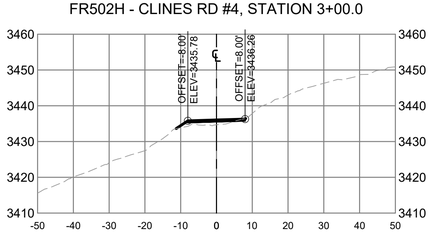
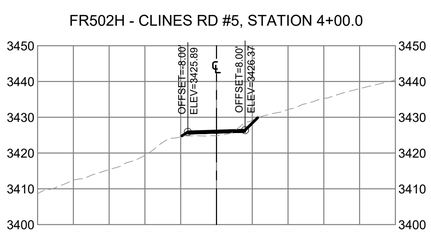
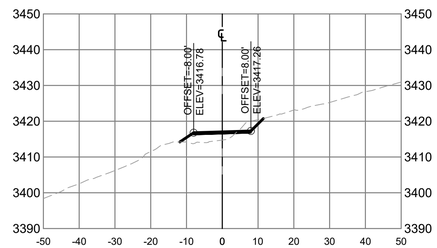


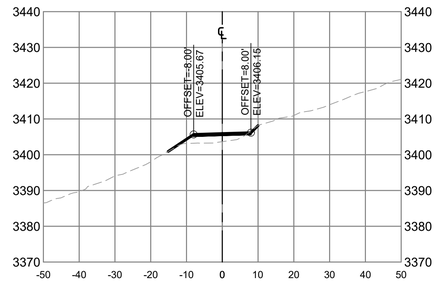
FR502H - CLINES RD #5, STATION 4+00.0



FR502H - CLINES RD #6, STATION 5+00.0



FR502H - CLINES RD #7, STATION 6+00.0



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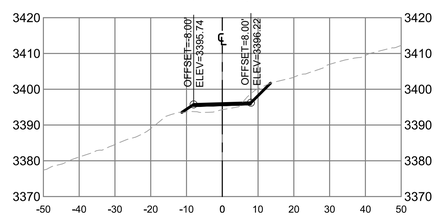
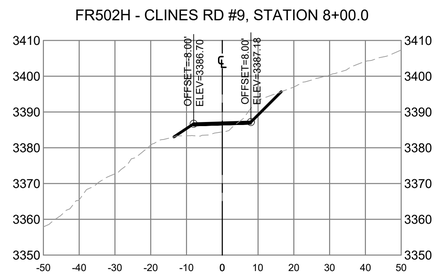
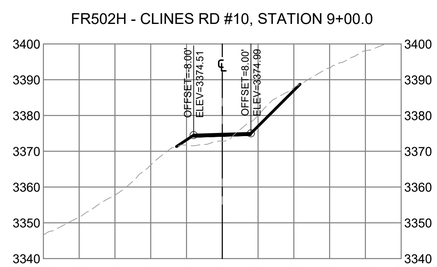


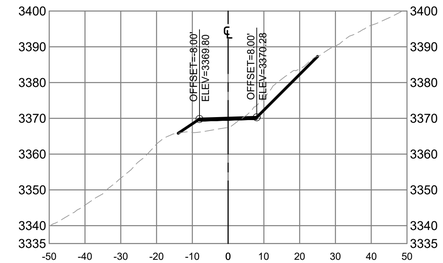
FR502H - CLINES RD #9, STATION 8+00.0



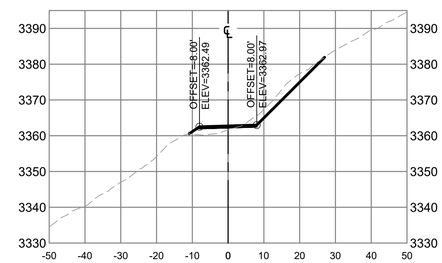
FR502H - CLINES RD #10, STATION 9+00.0



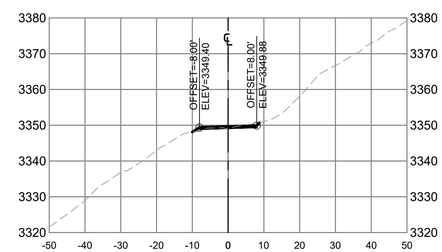
FR502H - CLINES RD #11, STATION 9+50.0



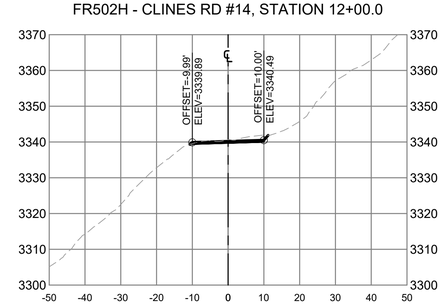
FR502H - CLINES RD #12, STATION 10+00.0



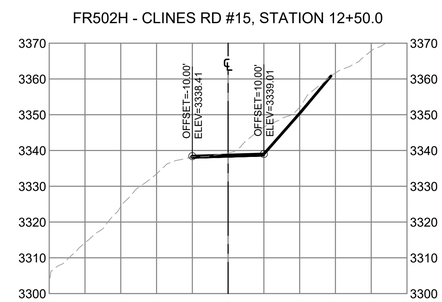
FR502H - CLINES RD #13, STATION 11+00.0



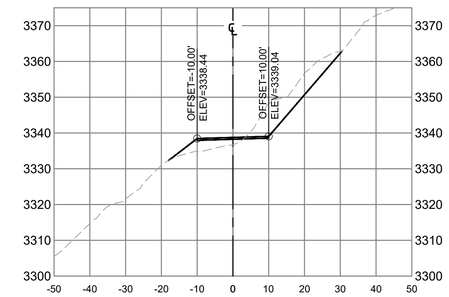
FR502H - CLINES RD #14, STATION 12+00.0



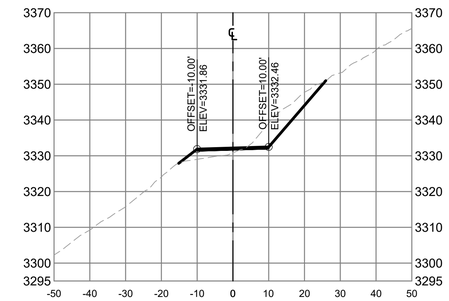
FR502H - CLINES RD #15, STATION 12+50.0



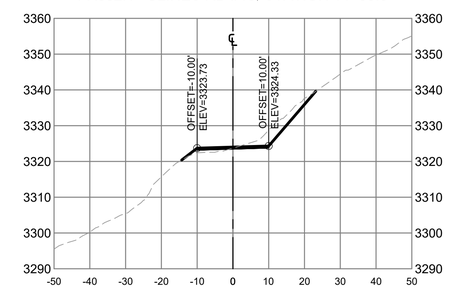
FR502H - CLINES RD #16, STATION 13+00.0



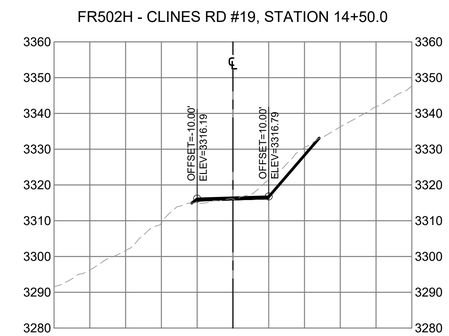
FR502H - CLINES RD #17, STATION 13+50.0



FR502H - CLINES RD #18, STATION 14+00.0



FR502H - CLINES RD #19, STATION 14+50.0



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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
VERTICAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
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0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

TITLE

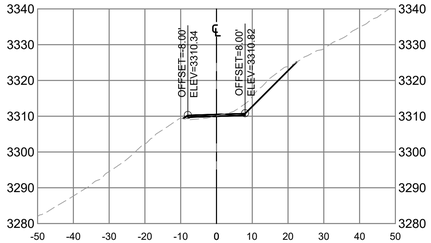
FR502H
CLINES RD
CROSS SECTIONS

PROJECT NO. 50106442

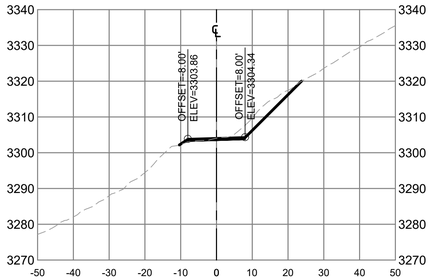
FR502H-04

SHEET NO.

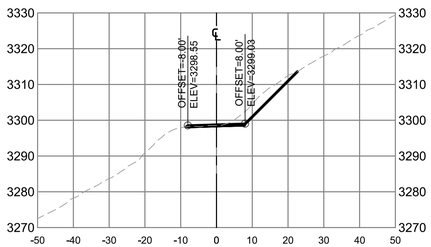
FR502H - CLINES RD #20, STATION 15+00.0



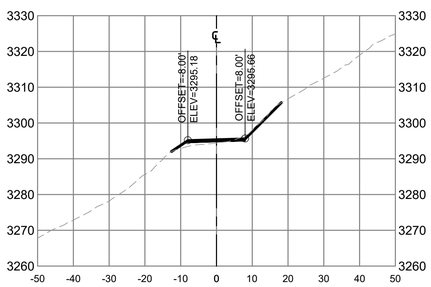
FR502H - CLINES RD #21, STATION 15+50.0



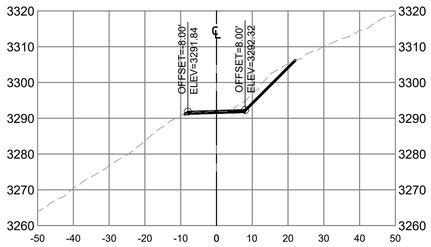
FR502H - CLINES RD #22, STATION 16+00.0



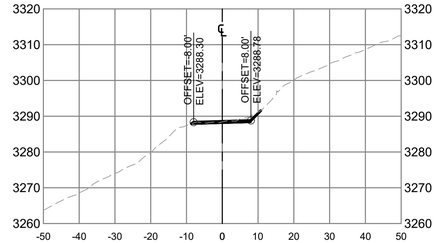
FR502H - CLINES RD #23, STATION 16+50.0



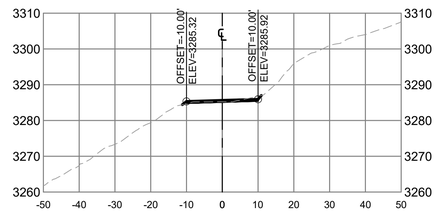
FR502H - CLINES RD #24, STATION 17+00.0



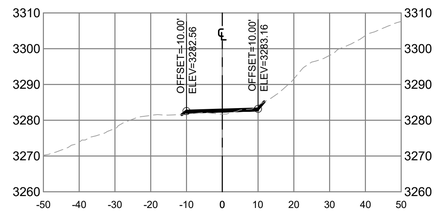
FR502H - CLINES RD #25, STATION 17+50.0



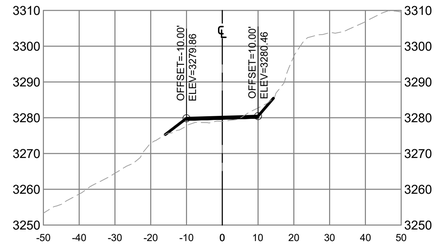
FR502H - CLINES RD #26, STATION 18+00.0



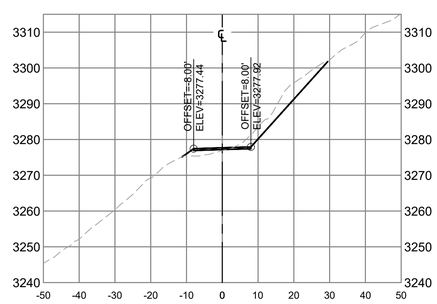
FR502H - CLINES RD #27, STATION 18+50.0



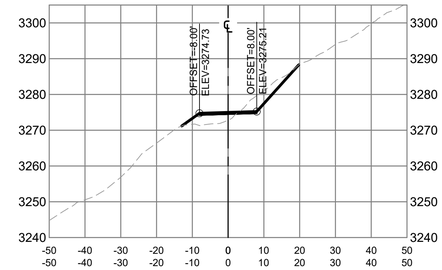
FR502H - CLINES RD #28, STATION 19+00.0



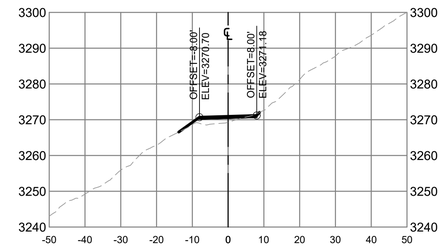
FR502H - CLINES RD #29, STATION 19+50.0



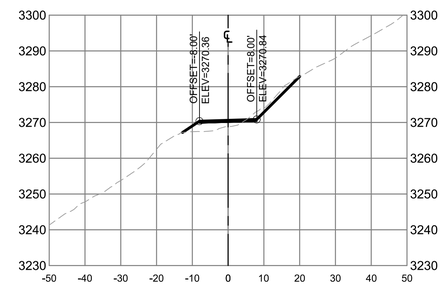
FR502H - CLINES RD #30, STATION 20+00.0



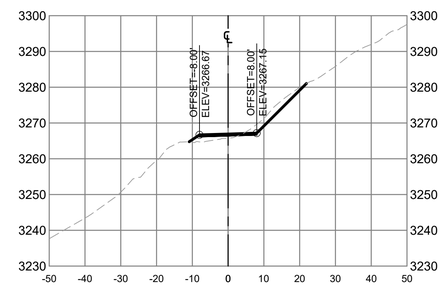
FR502H - CLINES RD #31, STATION 20+50.0



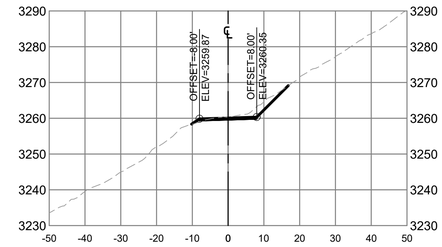
FR502H - CLINES RD #32, STATION 21+00.0



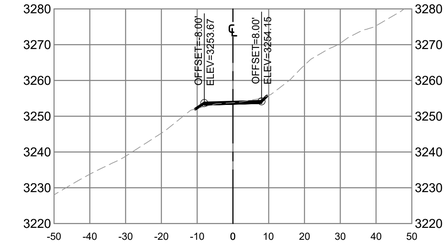
FR502H - CLINES RD #33, STATION 21+50.0



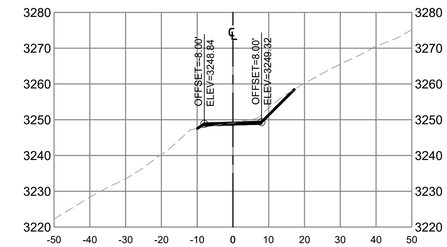
FR502H - CLINES RD #34, STATION 22+00.0



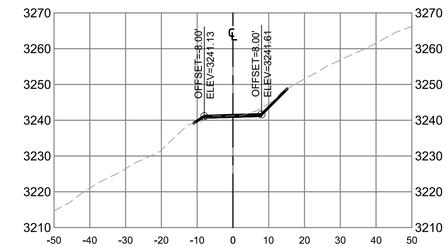
FR502H - CLINES RD #35, STATION 22+50.0



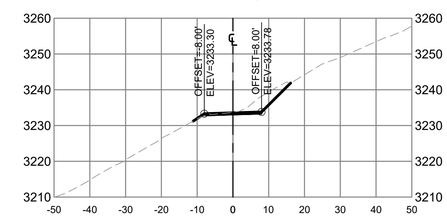
FR502H - CLINES RD #36, STATION 23+00.0



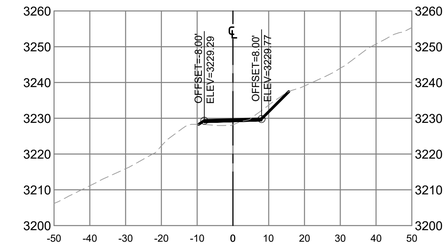
FR502H - CLINES RD #37, STATION 23+50.0



FR502H - CLINES RD #38, STATION 24+00.0



FR502H - CLINES RD #39, STATION 24+50.0



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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
VERTICAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

TITLE

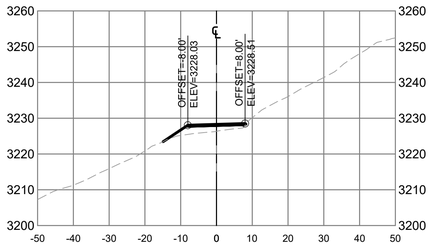
FR502H
CLINES RD
CROSS SECTIONS

PROJECT NO. 50106442

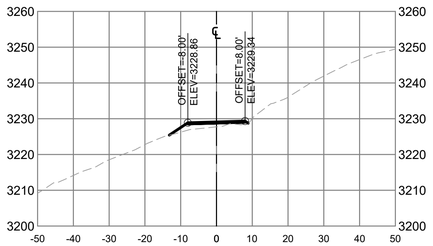
FR502H-05

SHEET NO.

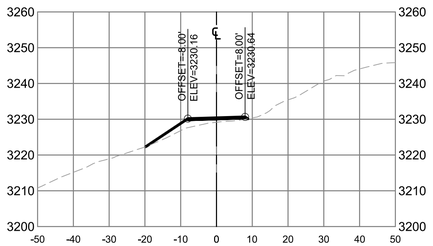
FR502H - CLINES RD #40, STATION 25+00.0



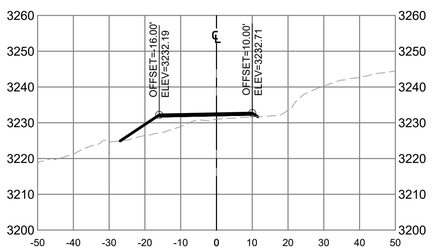
FR502H - CLINES RD #41, STATION 25+50.0



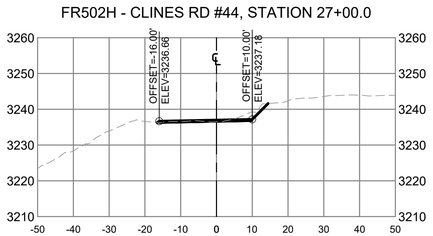
FR502H - CLINES RD #42, STATION 26+00.0



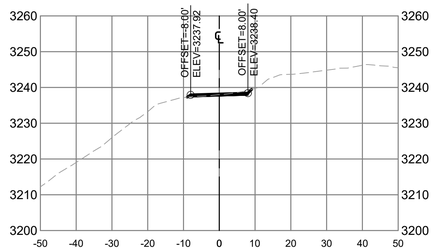
FR502H - CLINES RD #43, STATION 26+50.0



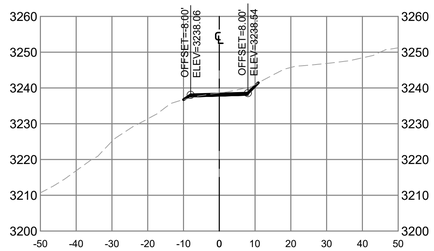
FR502H - CLINES RD #44, STATION 27+00.0



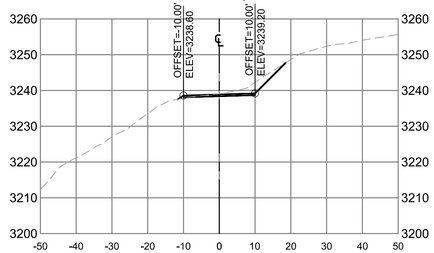
FR502H - CLINES RD #45, STATION 27+50.0



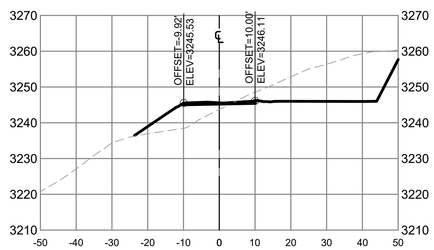
FR502H - CLINES RD #46, STATION 28+00.0



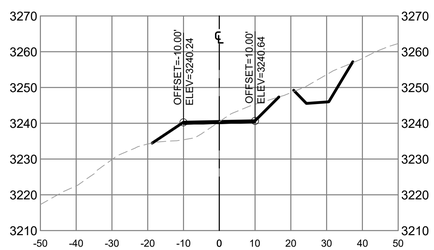
FR502H - CLINES RD #47, STATION 28+50.0



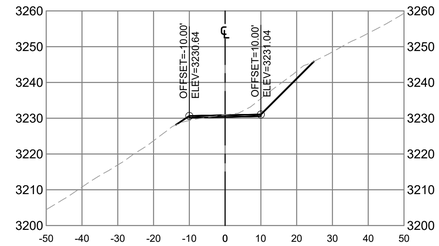
FR502H - CLINES RD #48, STATION 29+00.0



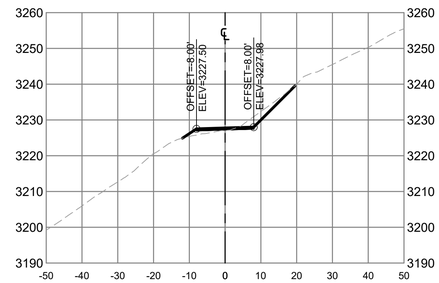
FR502H - CLINES RD #49, STATION 29+50.0



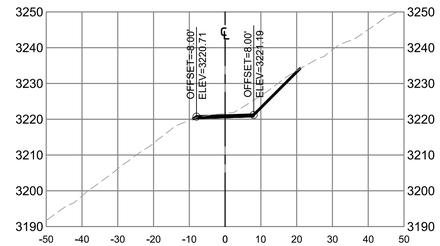
FR502H - CLINES RD #50, STATION 30+00.0



FR502H - CLINES RD #51, STATION 30+50.0



FR502H - CLINES RD #52, STATION 31+00.0



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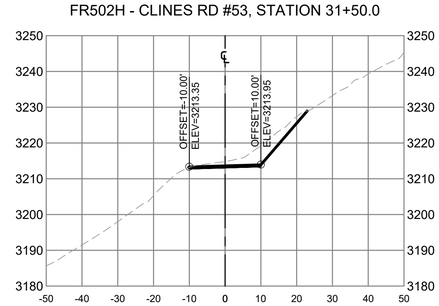
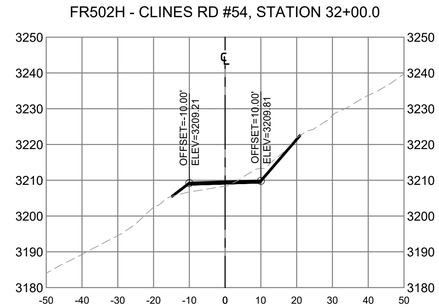
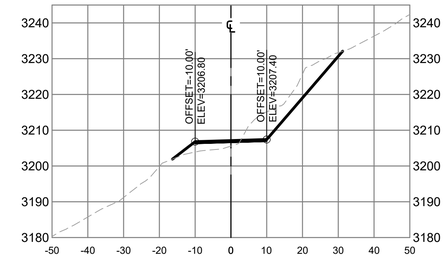


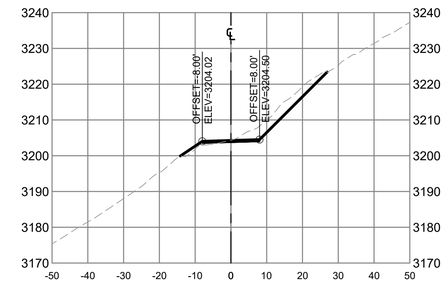
FR502H - CLINES RD #54, STATION 32+00.0



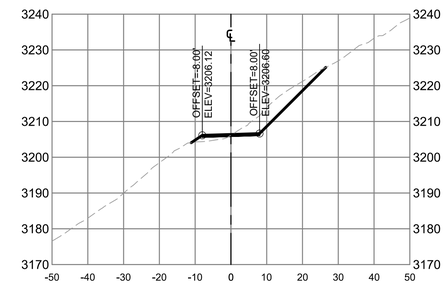
FR502H - CLINES RD #55, STATION 32+50.0



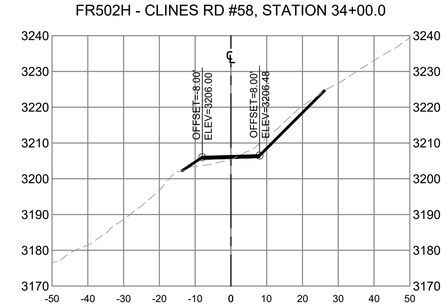
FR502H - CLINES RD #56, STATION 33+00.0



FR502H - CLINES RD #57, STATION 33+50.0



FR502H - CLINES RD #58, STATION 34+00.0



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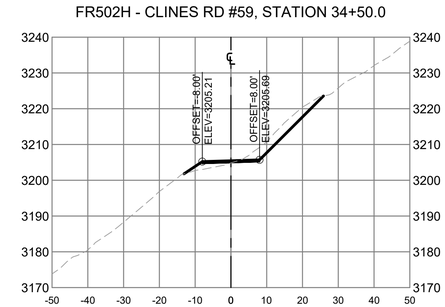

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TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
VERTICAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

TITLE

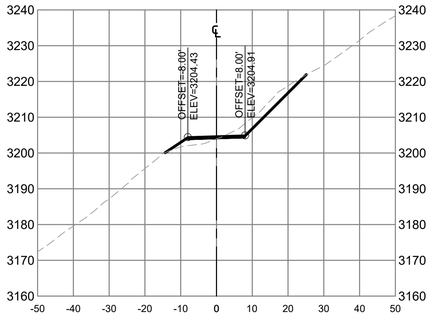
FR502H
CLINES RD
CROSS SECTIONS

PROJECT NO. 50106442

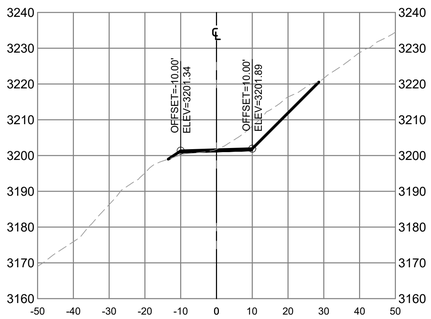
FR502H-06

SHEET NO.

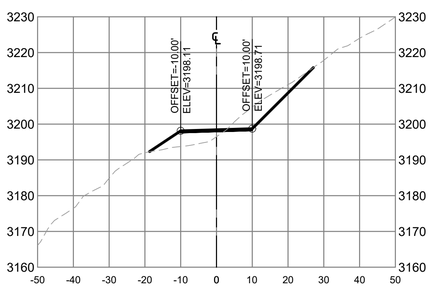
FR502H - CLINES RD #60, STATION 35+00.0



FR502H - CLINES RD #61, STATION 35+50.0



FR502H - CLINES RD #62, STATION 36+00.0



CLINES ROAD INSTALLATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
CLINES ROAD IMPROVEMENT	4150	2880	1270 (CUT)
INSTALL CRANE PAD AT STR. #181	1930	25	1905 (CUT)
INSTALL CRANE PAD AT STR. #182	3340	25	3315 (CUT)
INSTALLATION TOTALS	9420	2930	6490 (CUT)

NOTES:
1. SEE PLAN & PROFILE SHEETS, FR502H-01 THROUGH FR502H-03, FOR CORRESPONDING CROSS SECTION NUMBER AND ROAD STATION.
2. CROSS SECTIONS SHOWN ON PLANS ARE FOR PURPOSES OF DESIGN, CONSTRUCTION, AND REVIEW.
3. THE ABOVE CUT/FILL SUMMARY TABLE IS NOT DEPENDENT ON CROSS SECTION FREQUENCY (I.E. AVERAGE END AREA METHOD). THE CUT/FILL SUMMARY TABLE IS DEVELOPED BASED ON 3D MODELING (COMPOSITE VOLUMES) OF THE EXISTING AND PROPOSED GRADES.
4. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
5. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
6. SEE FR502H-R2 FOR RESTORATION EARTHWORK CALCULATIONS AND TOTAL CALCULATIONS.

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CONSTRUCTION DOCUMENTS
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WEST VIRGINIA & VIRGINIA

SEAL

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NOT FOR CONSTRUCTION

SCALE
0' 20' 40'
HORIZONTAL SCALE
0' 20' 40'
VERTICAL SCALE

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0	10/14/20	ARB	DRAFT FOR REVIEW

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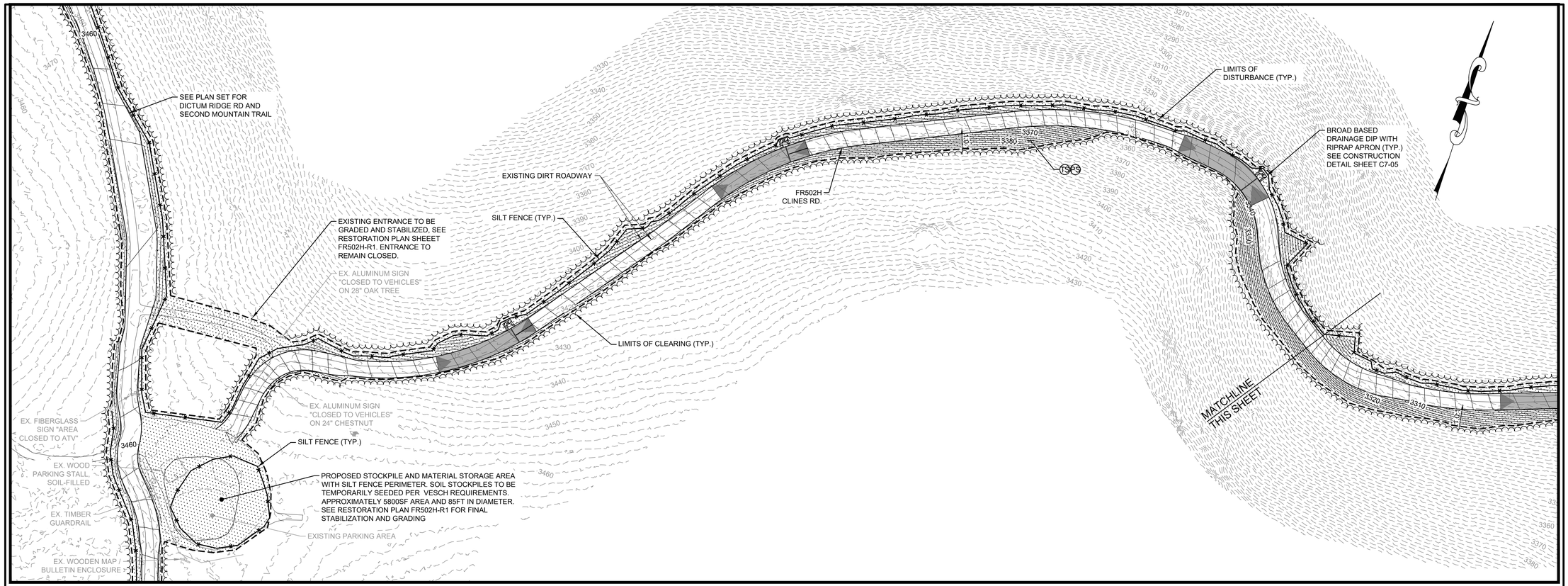
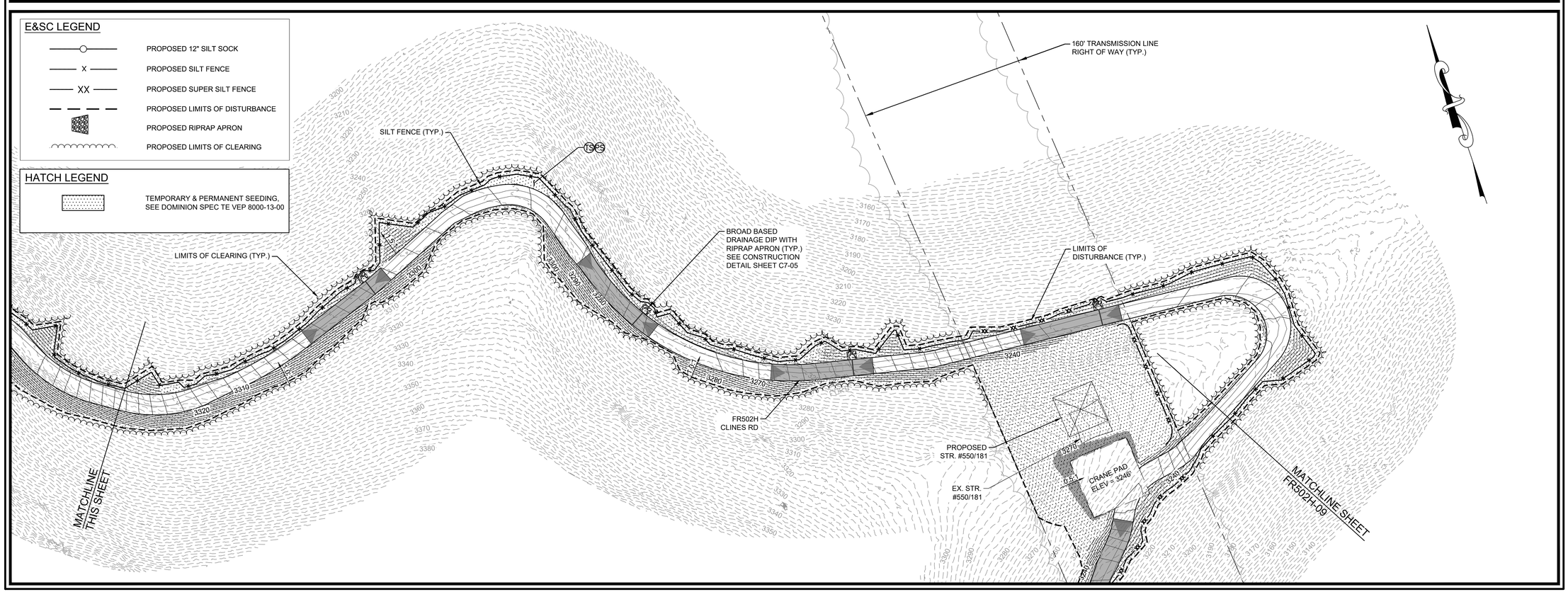
CHECKED BY KAP
DATE 03/05/2021

TITLE
FR502H
CLINES RD
CROSS SECTIONS

PROJECT NO. 50106442

FR502H-07
SHEET NO.





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GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

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CHECKED BY KAP
DATE 03/05/2021

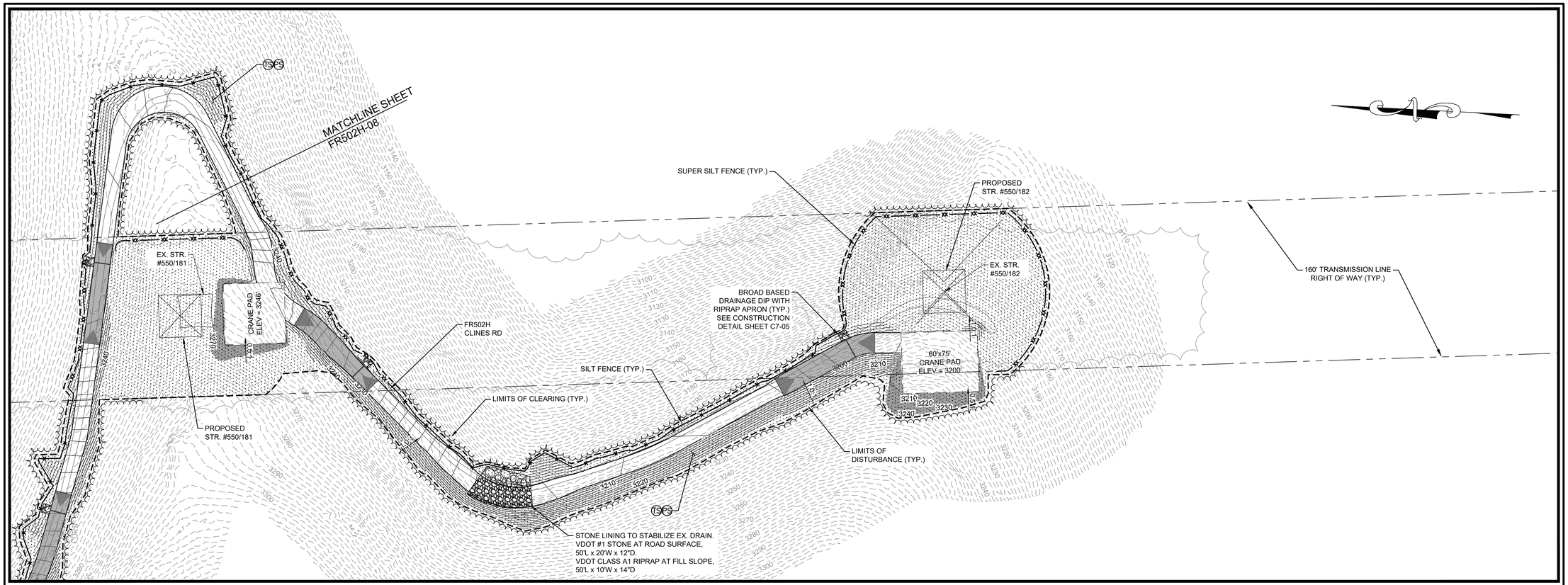
TITLE

FR502H
CLINES RD
E&SC PLAN

PROJECT NO. 50106442

FR502H-08

SHEET NO.



E&SC LEGEND

—○—	PROPOSED 12" SILT SOCK
— X —	PROPOSED SILT FENCE
— XX —	PROPOSED SUPER SILT FENCE
— — —	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED RIPRAP APRON
⌒⌒⌒	PROPOSED LIMITS OF CLEARING

HATCH LEGEND

	TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

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PROJECT TL 550
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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

TITLE

FR502H & FR502 E&SC PLAN

PROJECT NO. 50106442

FR502H-09

SHEET NO.

E&SC LEGEND

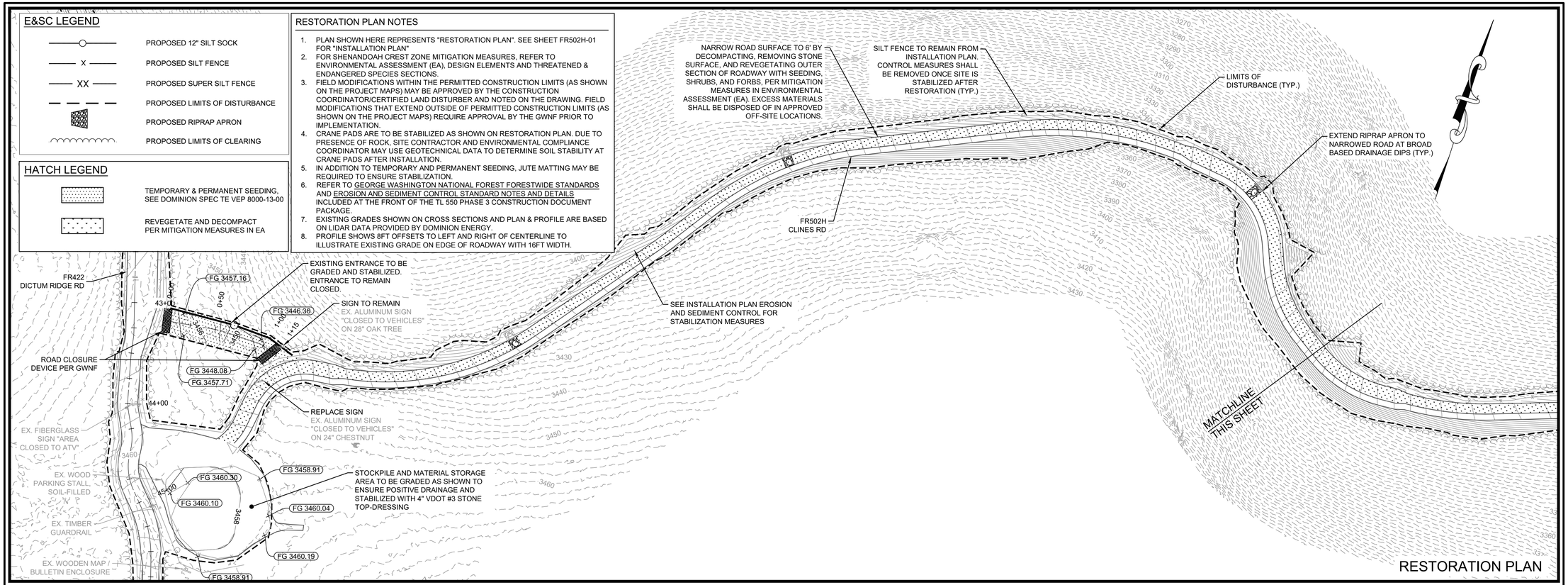
- PROPOSED 12" SILT SOCK
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

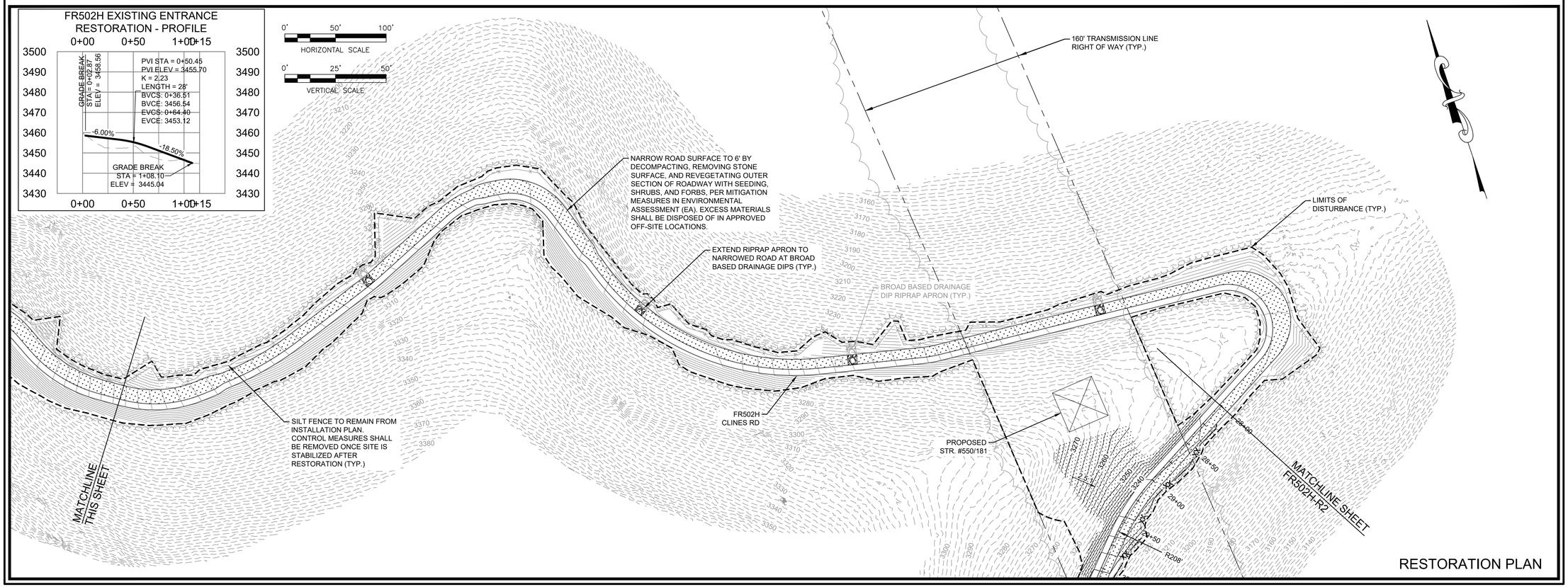
- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEET FR502H-01 FOR "INSTALLATION PLAN"
2. FOR SHENANDOAH CREST ZONE MITIGATION MEASURES, REFER TO ENVIRONMENTAL ASSESSMENT (EA), DESIGN ELEMENTS AND THREATENED & ENDANGERED SPECIES SECTIONS.
3. FIELD MODIFICATIONS WITHIN THE PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATOR/CERTIFIED LAND DISTURBER AND NOTED ON THE DRAWING. FIELD MODIFICATIONS THAT EXTEND OUTSIDE OF PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) REQUIRE APPROVAL BY THE GWNF PRIOR TO IMPLEMENTATION.
4. CRANE PADS ARE TO BE STABILIZED AS SHOWN ON RESTORATION PLAN. DUE TO PRESENCE OF ROCK, SITE CONTRACTOR AND ENVIRONMENTAL COMPLIANCE COORDINATOR MAY USE GEOTECHNICAL DATA TO DETERMINE SOIL STABILITY AT CRANE PADS AFTER INSTALLATION.
5. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
6. REFER TO GEORGE WASHINGTON NATIONAL FOREST FORESTWIDE STANDARDS AND EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS INCLUDED AT THE FRONT OF THE TL 550 PHASE 3 CONSTRUCTION DOCUMENT PACKAGE.
7. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
8. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



RESTORATION PLAN



RESTORATION PLAN

Dewberry

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CHECKED BY KAP
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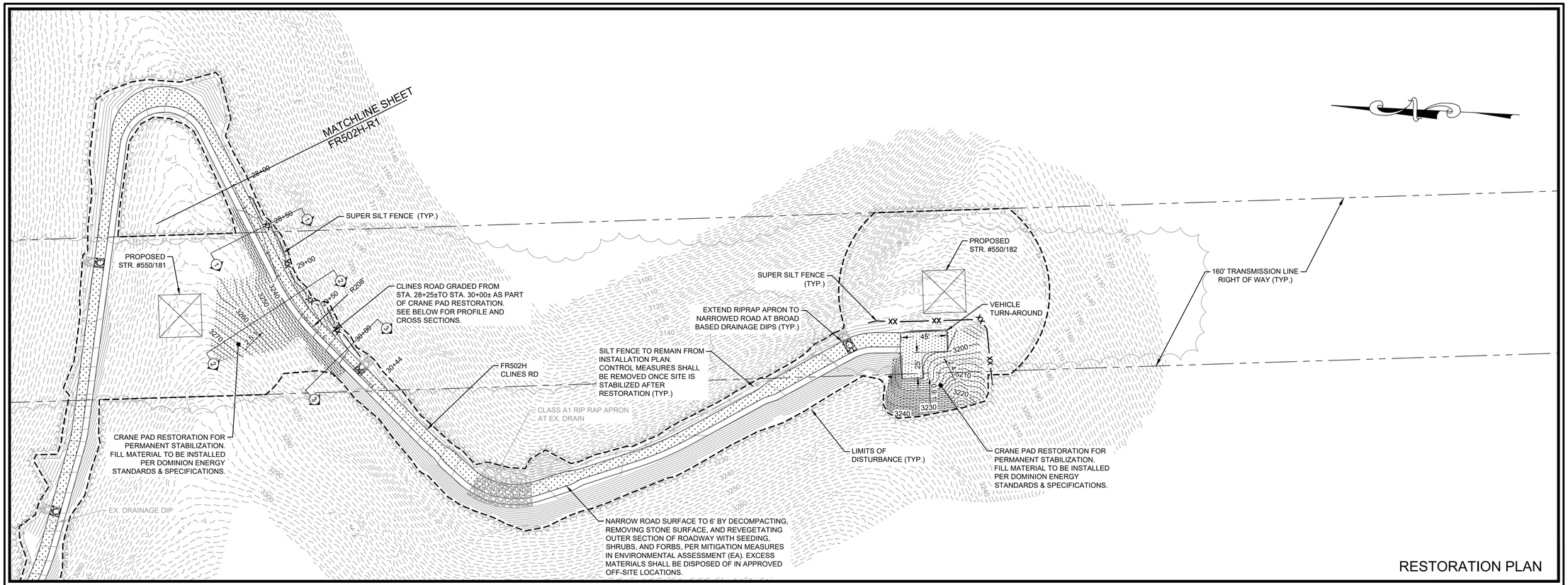
TITLE
FR502H
CLINES RD
RESTORATION
PLAN

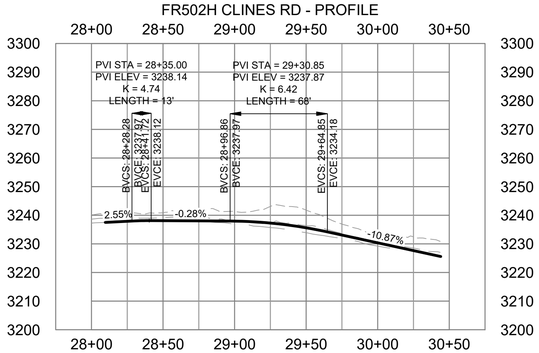
PROJECT NO. 50106442

FR502H-R1

SHEET NO.



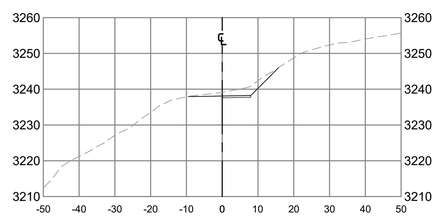
FR502H CLINES RD - PROFILE



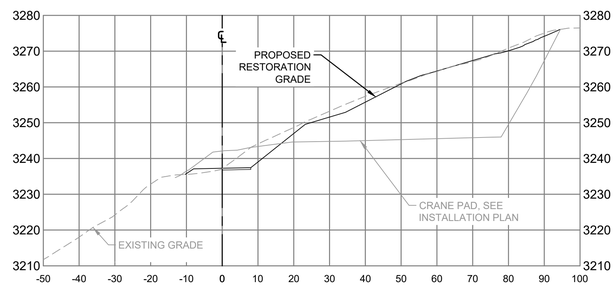
0' 50' 100'
HORIZONTAL SCALE

0' 25' 50'
VERTICAL SCALE

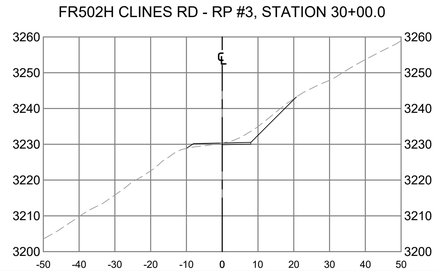
FR502H CLINES RD - RP #1, STATION 28+50.0



FR502H CLINES RD - RP #2, STATION 29+25.0



FR502H CLINES RD - RP #3, STATION 30+00.0



0' 20' 40'
HORIZONTAL SCALE

0' 20' 40'
VERTICAL SCALE

CLINES ROAD INSTALLATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
CLINES ROAD IMPROVEMENT	4150	2880	1270 (CUT)
INSTALL CRANE PAD AT STR. #181	1930	25	1905 (CUT)
INSTALL CRANE PAD AT STR. #182	3340	25	3315 (CUT)
INSTALLATION TOTALS	9420	2930	6490 (CUT)

CLINES ROAD RESTORATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
RESTORE EXISTING ENTRANCE	0	150	150 (FILL)
RESTORE CRANE PAD AT STR. #181	150	1850	1700 (FILL)
RESTORE CRANE PAD AT STR. #182	0	1100	1240 (FILL)
RESTORATION TOTALS	150	3100	2950 (FILL)

FINAL EARTHWORK BALANCE	
	NET (CY)
CLINES ROAD INSTALLATION	6490 (CUT)
CLINES ROAD RESTORATION	2950 (FILL)
CLINES ROAD TOTAL	3540 (CUT)

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEET FR502H-01 FOR "INSTALLATION PLAN"
2. FOR SHENANDOAH CREST ZONE MITIGATION MEASURES, REFER TO ENVIRONMENTAL ASSESSMENT (EA), DESIGN ELEMENTS AND THREATENED AND ENDANGERED SPECIES SECTIONS
3. FIELD MODIFICATIONS WITHIN THE PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATOR/CERTIFIED LAND DISTURBER AND NOTED ON THE DRAWING. FIELD MODIFICATIONS THAT EXTEND OUTSIDE OF PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) REQUIRE APPROVAL BY THE GWNF PRIOR TO IMPLEMENTATION.
4. CRANE PADS ARE TO BE STABILIZED AS SHOWN ON RESTORATION PLAN. DUE TO PRESENCE OF ROCK, SITE CONTRACTOR AND ENVIRONMENTAL COMPLIANCE COORDINATOR MAY USE GEOTECHNICAL DATA TO DETERMINE SOIL STABILITY AT CRANE PADS AFTER INSTALLATION.
5. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
6. REFER TO GEORGE WASHINGTON NATIONAL FOREST FORESTWIDE STANDARDS AND EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS INCLUDED AT THE FRONT OF THE TL 550 PHASE 3 CONSTRUCTION DOCUMENT PACKAGE.
7. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
8. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

E&SC LEGEND

- PROPOSED 12" SILT SOCK
- X — PROPOSED SILT FENCE
- XX — PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TEMPORARY & PERMANENT SEEDING, PER DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA

Dewberry

Dewberry Engineers Inc.
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SUITE 200
GLEN ALLEN, VA 23060
804.290.7957 (PHONE)
804.290.7928 (FAX)

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
3	03/05/21	ARB	FOR REVIEW
2	02/25/21	ARB	FOR REVIEW
1	02/08/21	ARB	DRAFT FOR REVIEW
0	10/14/20	ARB	DRAFT FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 03/05/2021

TITLE
FR502H CLINES RD RESTORATION PLAN

PROJECT NO. 50106442

FR502H-R2

SHEET NO.