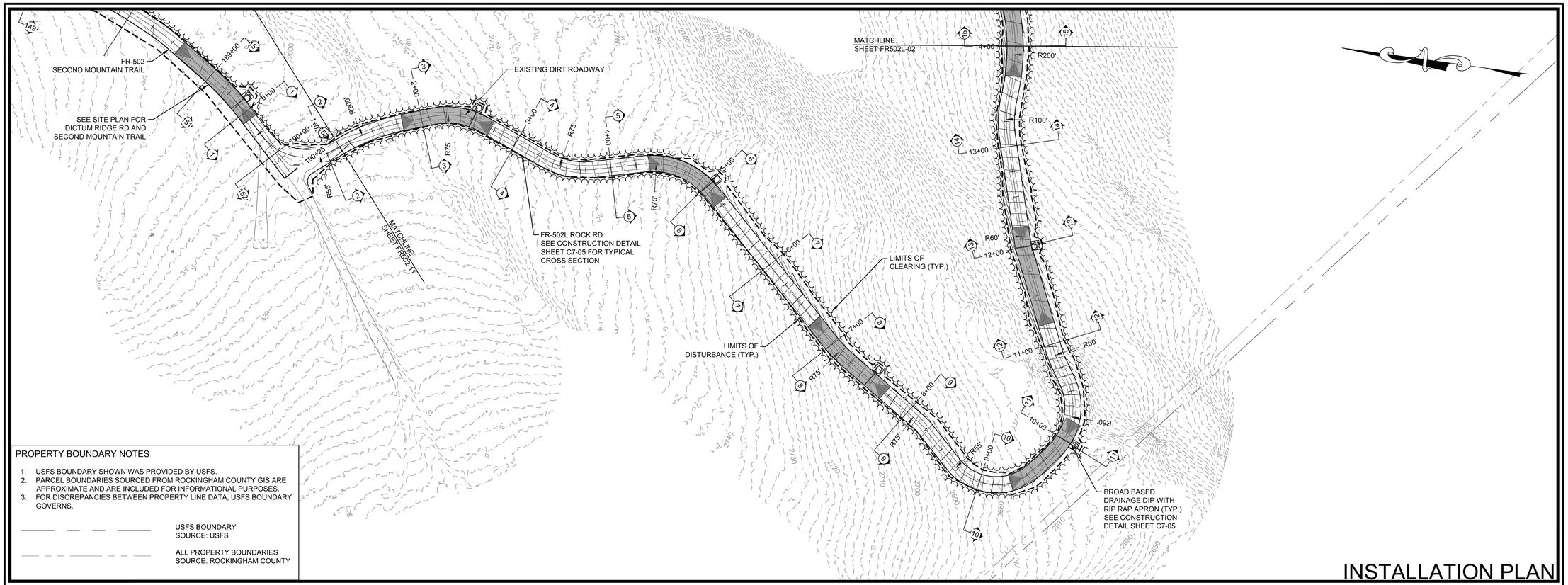


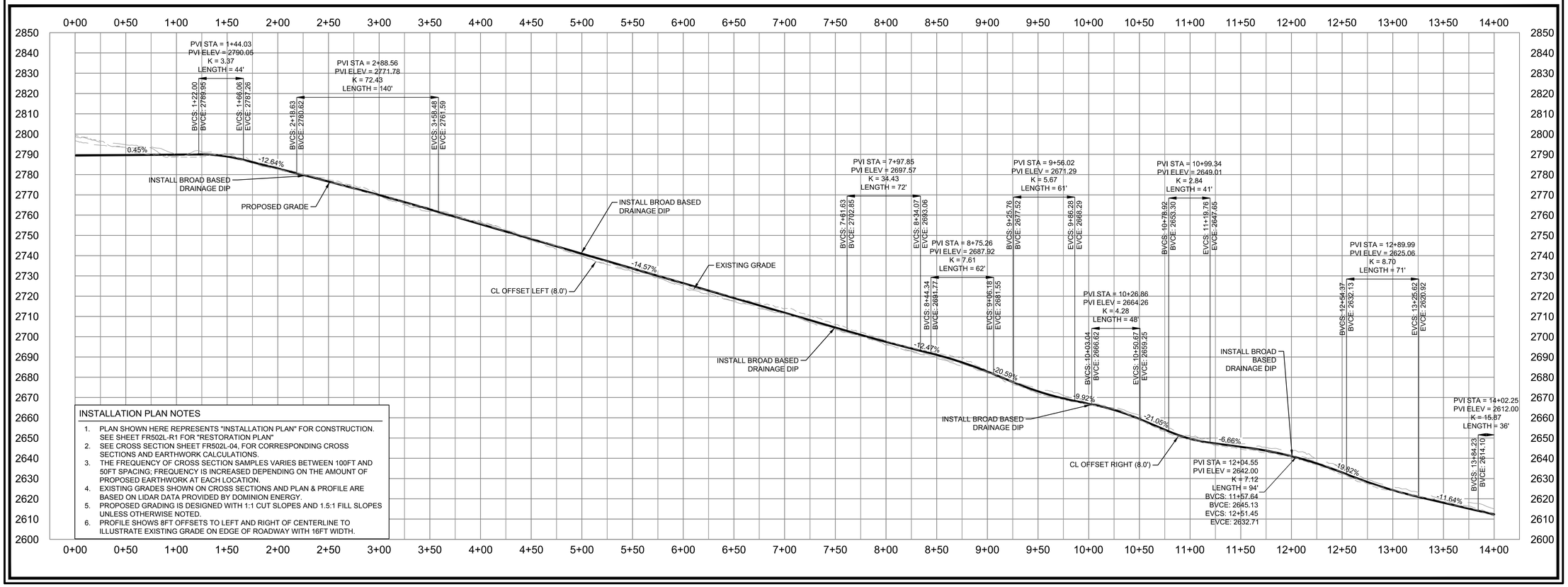
PROPERTY BOUNDARY NOTES

1. USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
2. PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY

INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET FR502L-R1 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEET FR502L-04, 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
1	07/02/21	LAL	FOR REVIEW
0	06/15/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 06/15/2021

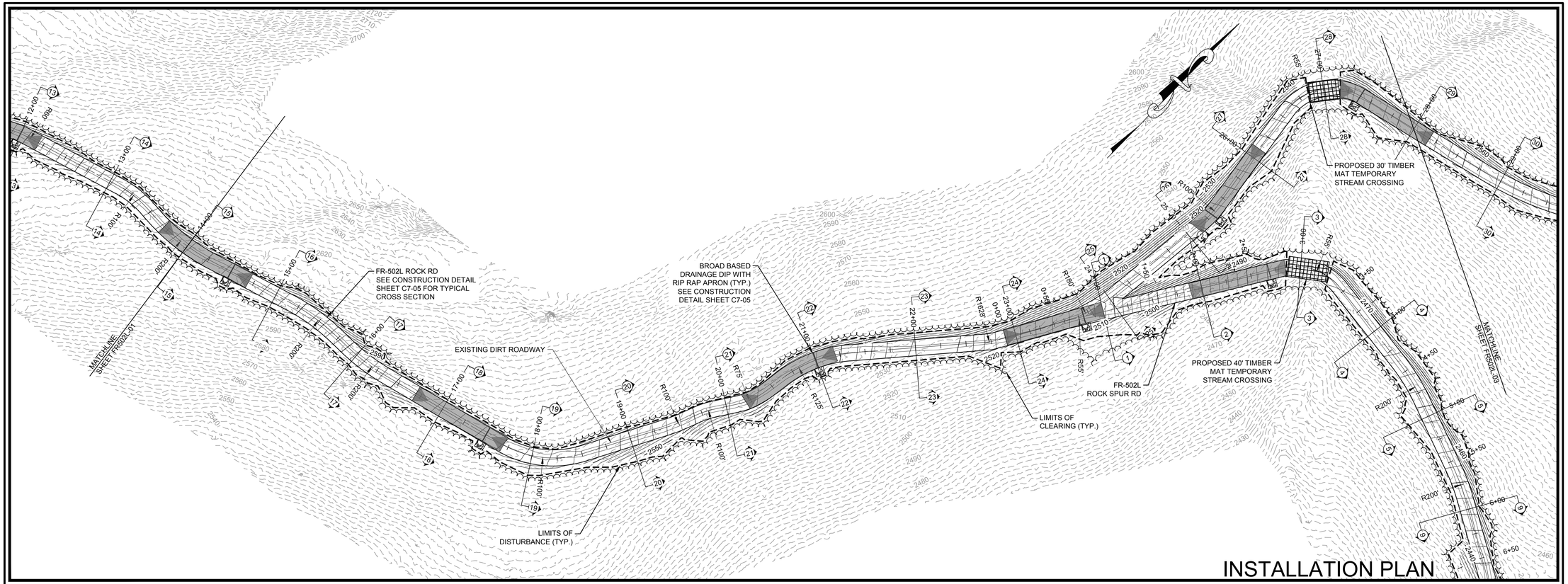
TITLE

FR502L ROCK RD
TO STR. #192
PLAN & PROFILE

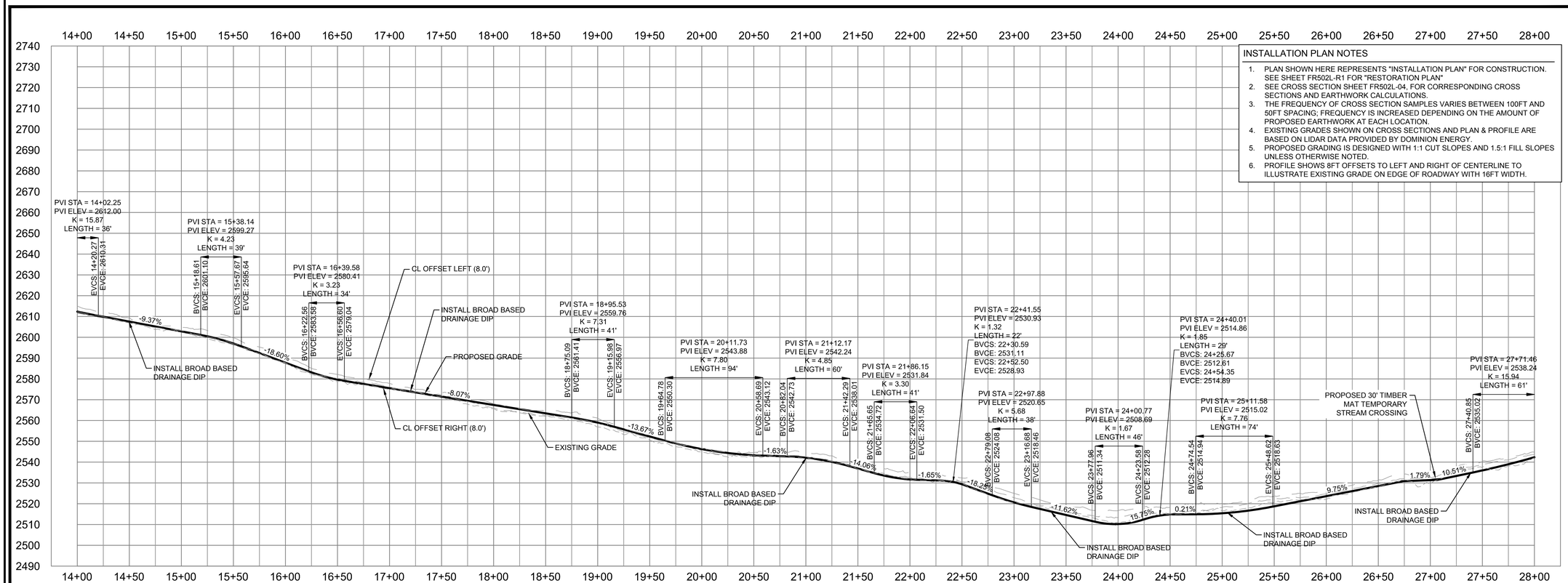
PROJECT NO. 50106442

FR502L-01

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

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2. SEE CROSS SECTION SHEET FR502L-04, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
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HORIZONTAL SCALE
0' 25' 50'
VERTICAL SCALE

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0	06/15/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	06/15/2021

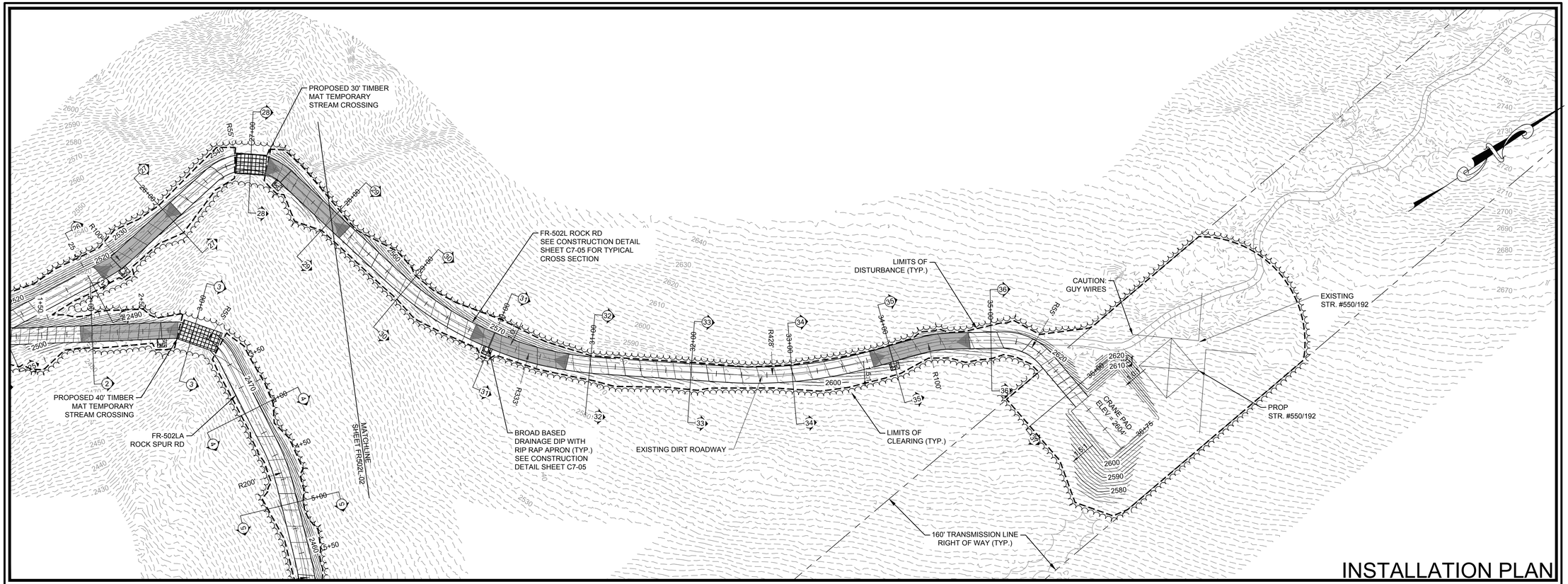
TITLE

FR502L ROCK RD
TO STR. #192
PLAN & PROFILE

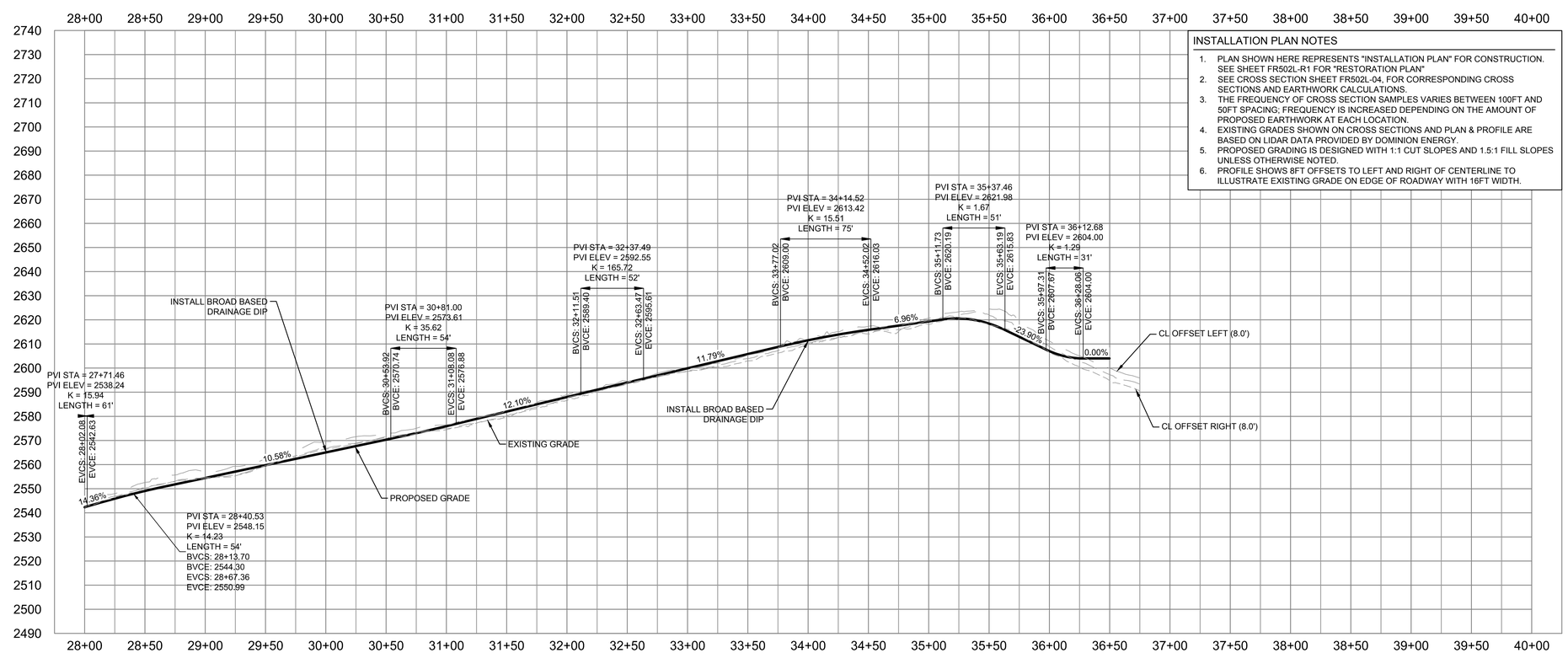
PROJECT NO. 50106442

FR502L-02

SHEET NO.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET FR502L-R1 FOR "RESTORATION PLAN"
2. SEE CROSS SECTION SHEET FR502L-04, FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
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SEAL

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SCALE
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REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 06/15/2021

TITLE

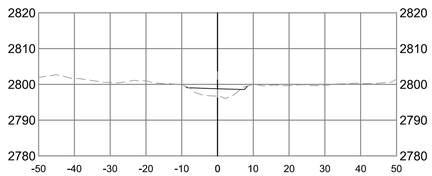
FR502L ROCK RD TO STR. #192 PLAN & PROFILE

PROJECT NO. 50106442

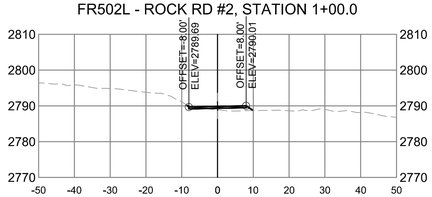
FR502L-03

SHEET NO.

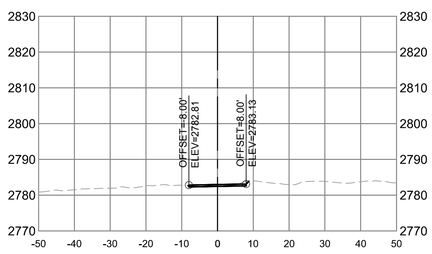
FR502L - ROCK RD #1, STATION 0+00.0



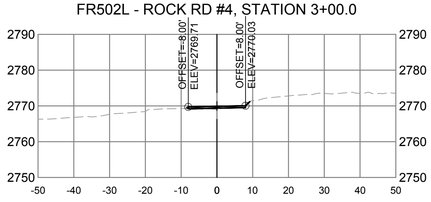
FR502L - ROCK RD #2, STATION 1+00.0



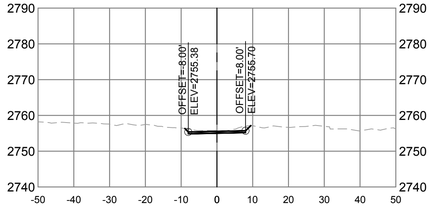
FR502L - ROCK RD #3, STATION 2+00.0



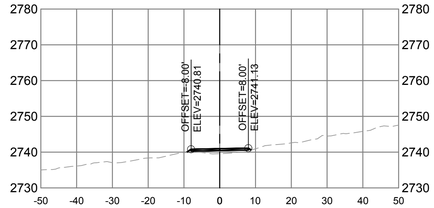
FR502L - ROCK RD #4, STATION 3+00.0



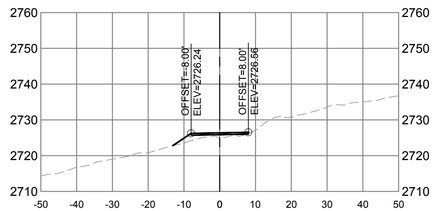
FR502L - ROCK RD #5, STATION 4+00.0



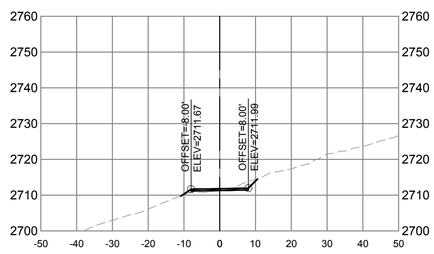
FR502L - ROCK RD #6, STATION 5+00.0



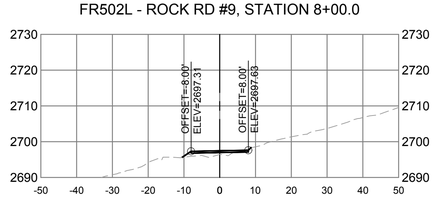
FR502L - ROCK RD #7, STATION 6+00.0



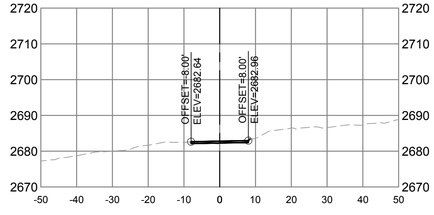
FR502L - ROCK RD #8, STATION 7+00.0



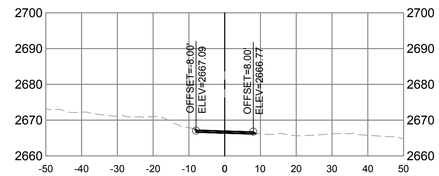
FR502L - ROCK RD #9, STATION 8+00.0



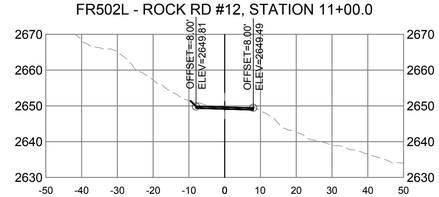
FR502L - ROCK RD #10, STATION 9+00.0



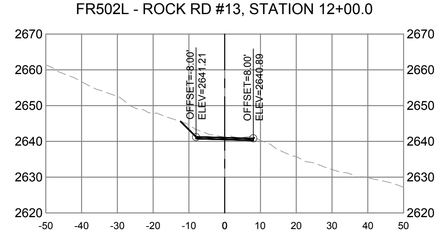
FR502L - ROCK RD #11, STATION 10+00.0



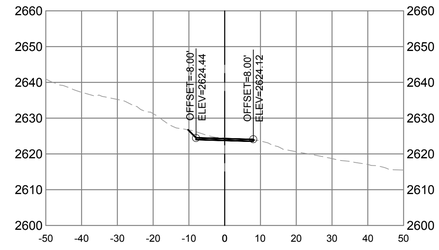
FR502L - ROCK RD #12, STATION 11+00.0



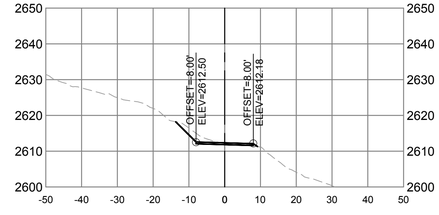
FR502L - ROCK RD #13, STATION 12+00.0



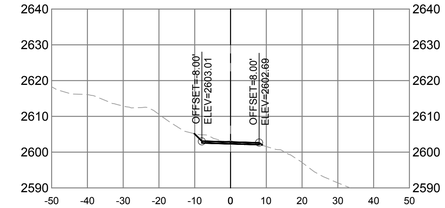
FR502L - ROCK RD #14, STATION 13+00.0



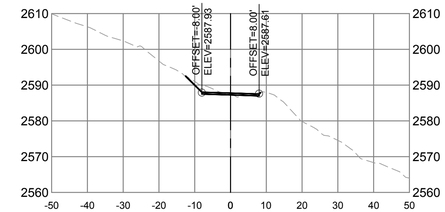
FR502L - ROCK RD #15, STATION 14+00.0



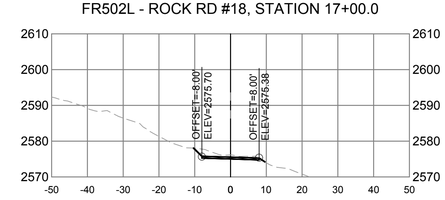
FR502L - ROCK RD #16, STATION 15+00.0



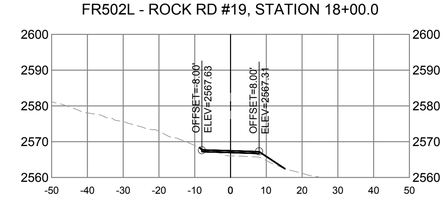
FR502L - ROCK RD #17, STATION 16+00.0



FR502L - ROCK RD #18, STATION 17+00.0



FR502L - ROCK RD #19, STATION 18+00.0



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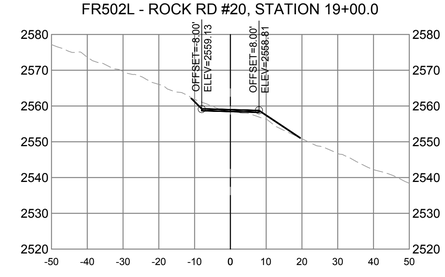

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PROJECT TL 550
CONSTRUCTION DOCUMENTS
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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

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

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REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/02/2021

TITLE

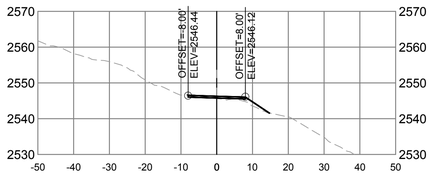
FR502L ROCK RD TO STR. #192 CROSS SECTIONS

PROJECT NO. 50106442

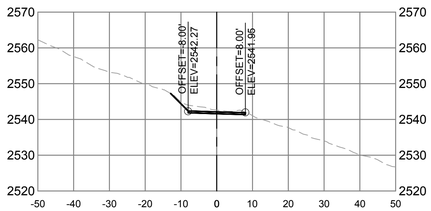
FR502L-04

SHEET NO.

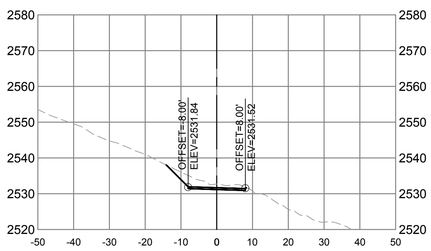
FR502L - ROCK RD #21, STATION 20+00.0



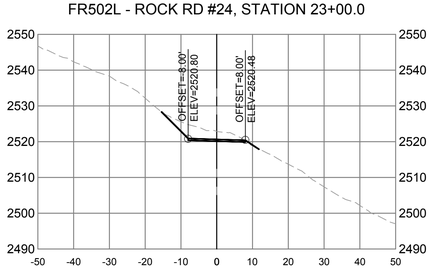
FR502L - ROCK RD #22, STATION 21+00.0



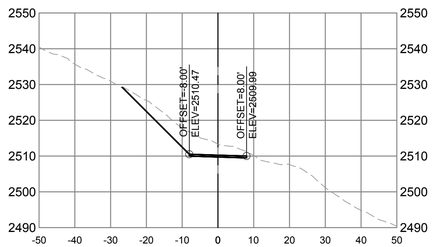
FR502L - ROCK RD #23, STATION 22+00.0



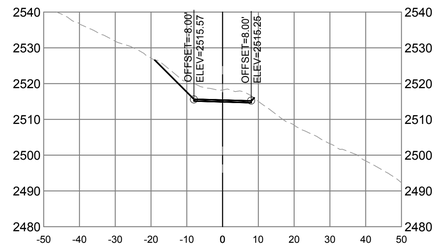
FR502L - ROCK RD #24, STATION 23+00.0



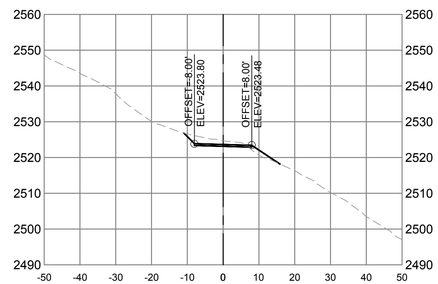
FR502L - ROCK RD #25, STATION 24+00.0



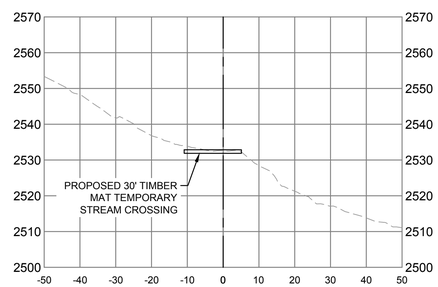
FR502L - ROCK RD #26, STATION 25+00.0



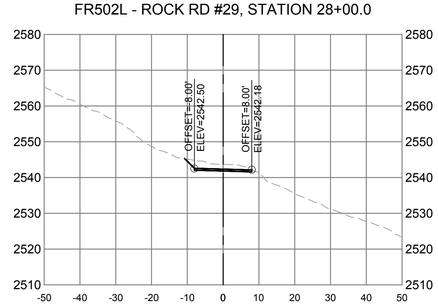
FR502L - ROCK RD #27, STATION 26+00.0



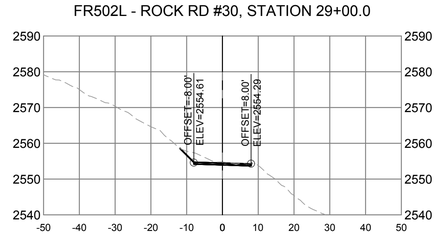
FR502L - ROCK RD #28, STATION 27+00.0



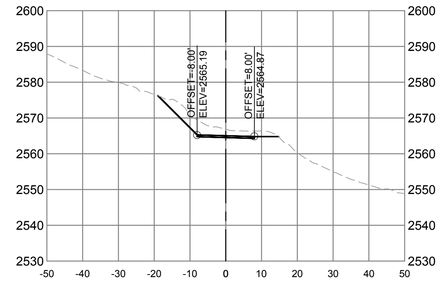
FR502L - ROCK RD #29, STATION 28+00.0



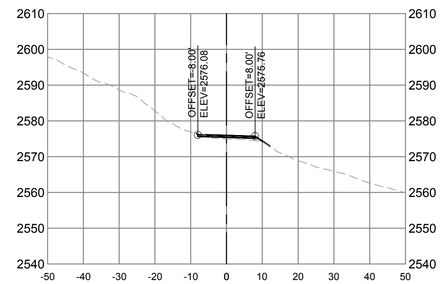
FR502L - ROCK RD #30, STATION 29+00.0



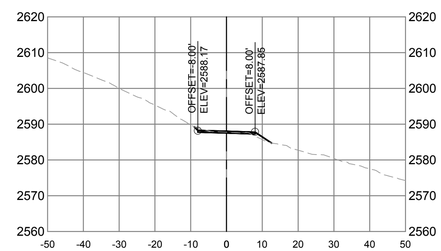
FR502L - ROCK RD #31, STATION 30+00.0



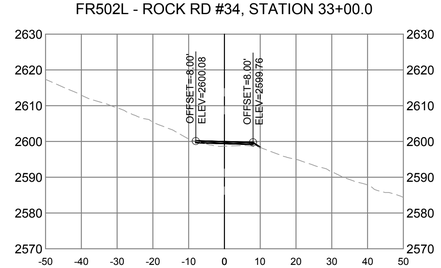
FR502L - ROCK RD #32, STATION 31+00.0



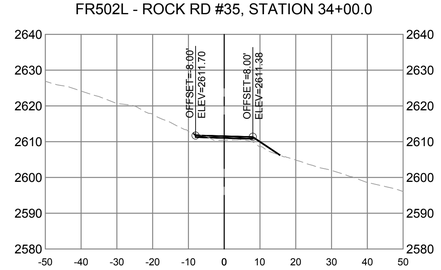
FR502L - ROCK RD #33, STATION 32+00.0



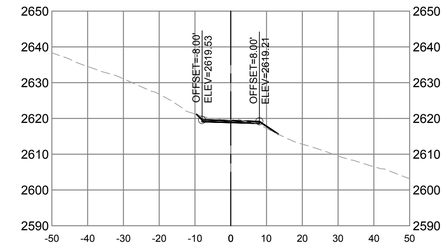
FR502L - ROCK RD #34, STATION 33+00.0



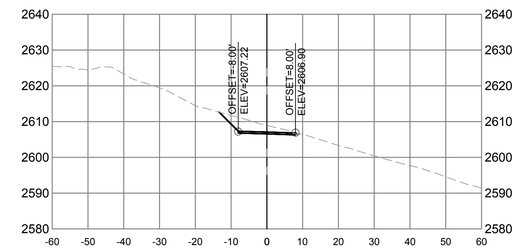
FR502L - ROCK RD #35, STATION 34+00.0



FR502L - ROCK RD #36, STATION 35+00.0



FR502L - ROCK RD #37, STATION 36+00.0



ROCK RD INSTALLATION PLAN EARTHWORK CALCULATIONS				
	CUT (CY)	FILL (CY)	NET (CY)	
ROCK RD IMPROVEMENT	2630	2065	565	(CUT)
INSTALL CRANE PAD AT STR. #192	622	1064	442	(FILL)
INSTALLATION TOTALS	3252	3129	123	(CUT)

NOTES

1. SEE PLAN & PROFILE SHEETS, FR520L-01 THROUGH FR520L-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. EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE49B.
7. SEE FR520L-R1 FOR RESTORATION EARTHWORK CALCULATIONS AND TOTAL CALCULATIONS.

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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
1	07/02/21	LAL	FOR REVIEW
0	06/15/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 07/02/2021

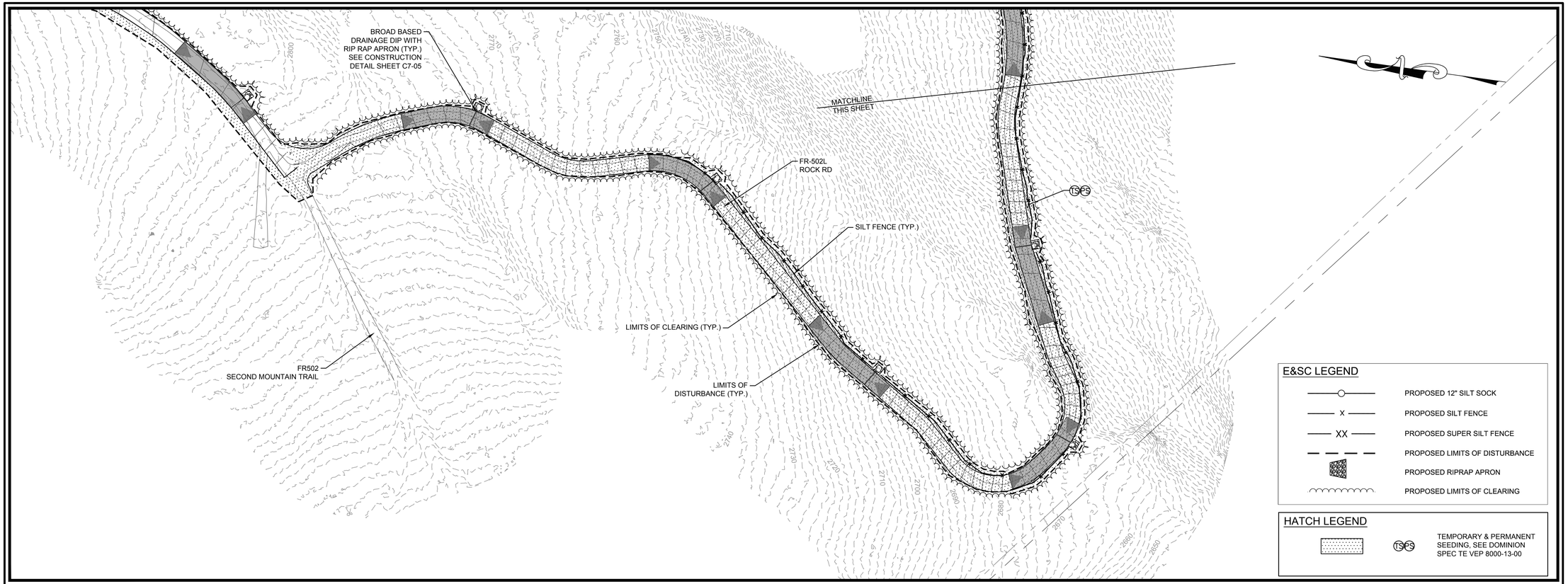
TITLE

FR502L ROCK RD TO STR. #192 CROSS SECTIONS

PROJECT NO. 50106442

FR502L-05

SHEET NO.

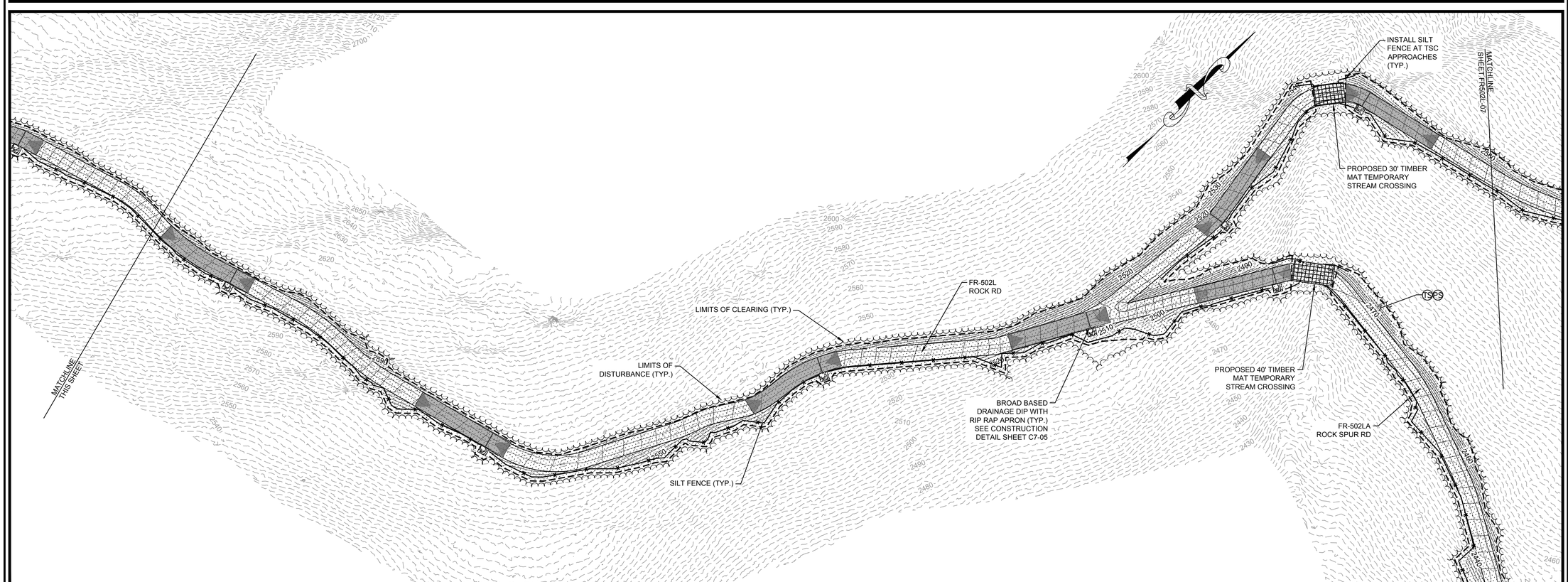


E&SC LEGEND

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

HATCH LEGEND

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



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WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/02/21	LAL	FOR REVIEW
0	06/15/21	ARB	FOR REVIEW

REVISIONS

DRAWN BY	ARB
APPROVED BY	
CHECKED BY	KAP
DATE	06/15/2021

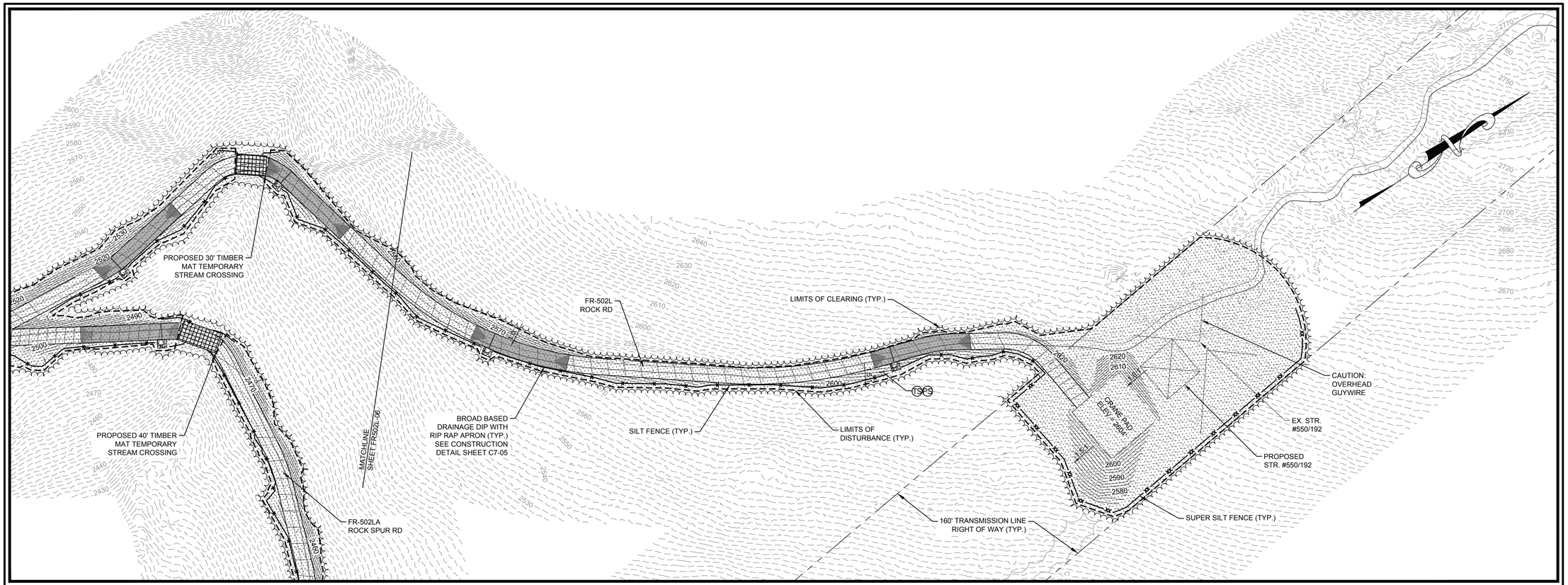
TITLE

FR502L ROCK RD E&SC PLAN

PROJECT NO. 50106442

FR502L-06

SHEET NO.



NOTES

1. SEE SHEET C7-05 FOR TYPICAL SECTION FOR ROAD AND DITCH AND C7-06 TYPICAL GWNF CONSTRUCTION DETAILS
2. SEE SHEET 2 THROUGH 6W FOR EROSION AND SEDIMENT CONTROL NARRATIVE, NOTES, AND DETAILS
3. DITCHES SHALL BE LINED WITH RIPRAP IF LONGITUDINAL SLOPES ARE GREATER THAN 8%.

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

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

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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/02/21	LAL	FOR REVIEW
0	06/15/21	ARB	FOR REVIEW

REVISIONS

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APPROVED BY
CHECKED BY KAP
DATE 06/15/2021

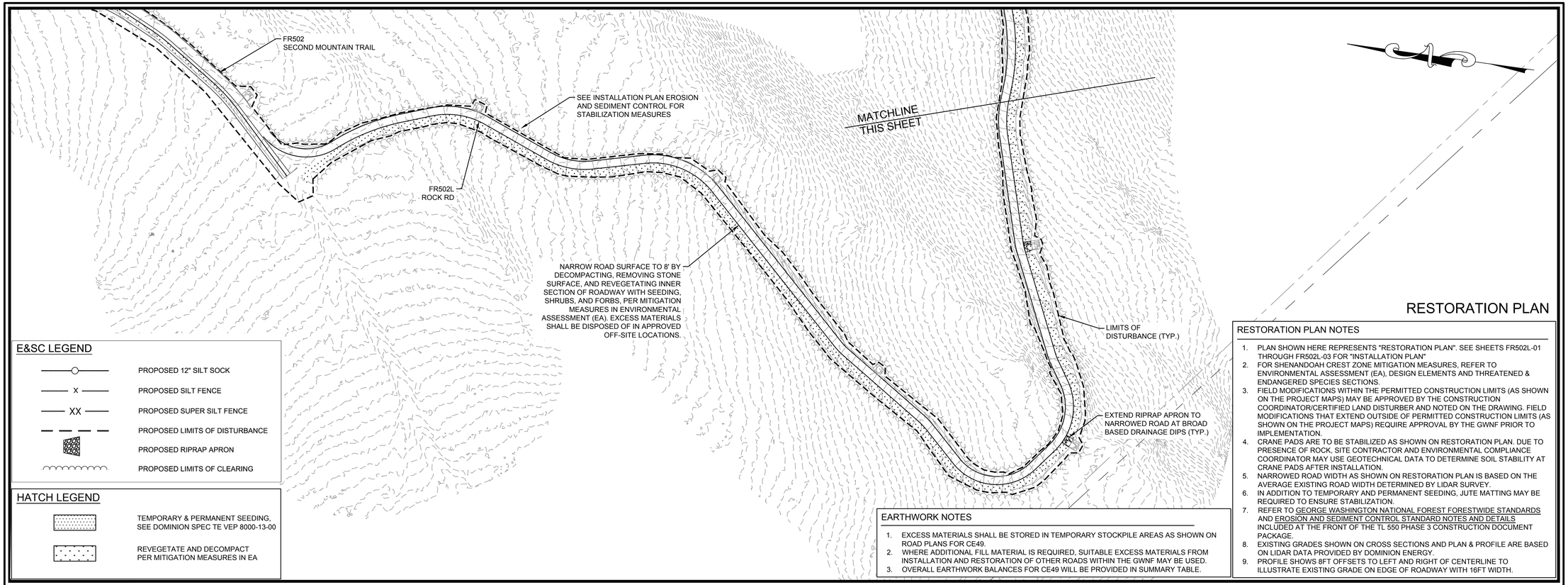
TITLE

FR502L ROCK RD E&SC PLAN

PROJECT NO. 50106442

FR502L-07

SHEET NO.



RESTORATION PLAN

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

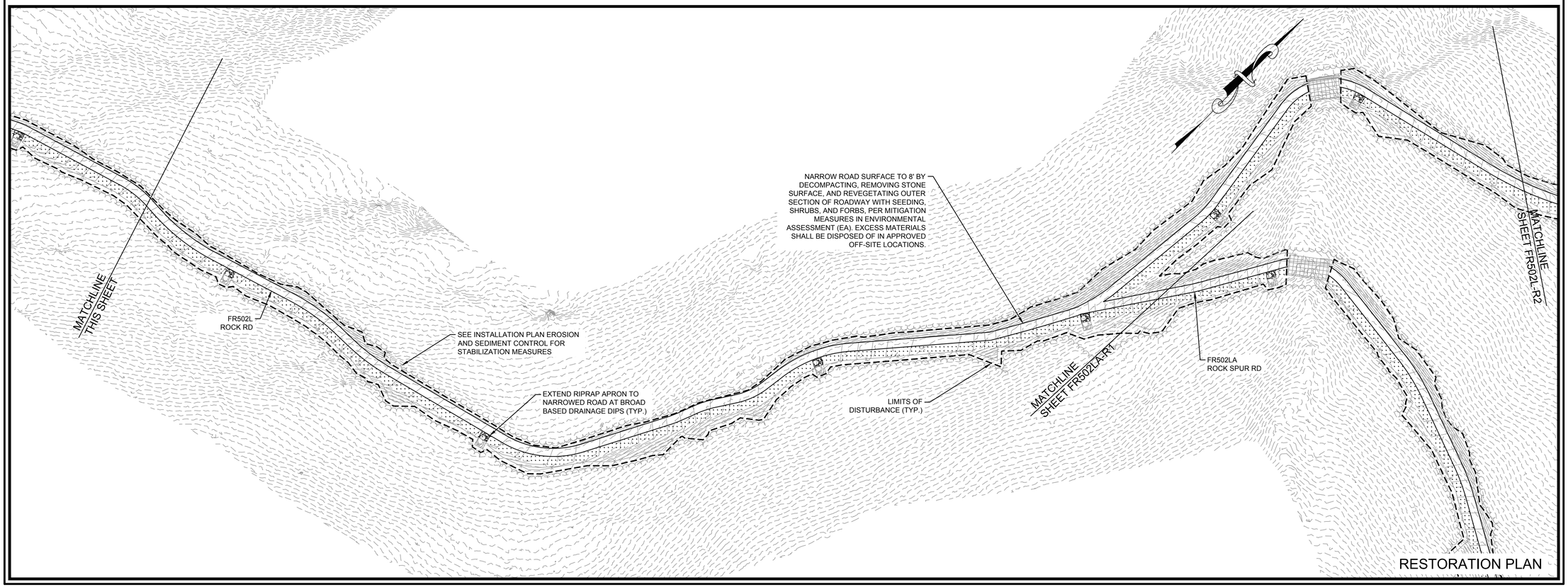
- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA

EARTHWORK NOTES

1. EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE49.
2. WHERE ADDITIONAL FILL MATERIAL IS REQUIRED, SUITABLE EXCESS MATERIALS FROM INSTALLATION AND RESTORATION OF OTHER ROADS WITHIN THE GWNF MAY BE USED.
3. OVERALL EARTHWORK BALANCES FOR CE49 WILL BE PROVIDED IN SUMMARY TABLE.

RESTORATION PLAN NOTES

1. PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEETS FR502L-01 THROUGH FR502L-03 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. NARROWED ROAD WIDTH AS SHOWN ON RESTORATION PLAN IS BASED ON THE AVERAGE EXISTING ROAD WIDTH DETERMINED BY LIDAR SURVEY.
6. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
7. 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.
8. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
9. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



RESTORATION PLAN

Dewberry

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TRANSMISSION LINE REBUILD
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GEORGE WASHINGTON NATIONAL FOREST
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SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE
0' 50' 100'
HORIZONTAL SCALE

No.	DATE	BY	Description
1	07/02/21	LAL	FOR REVIEW
0	06/15/21	ARB	FOR REVIEW

REVISIONS

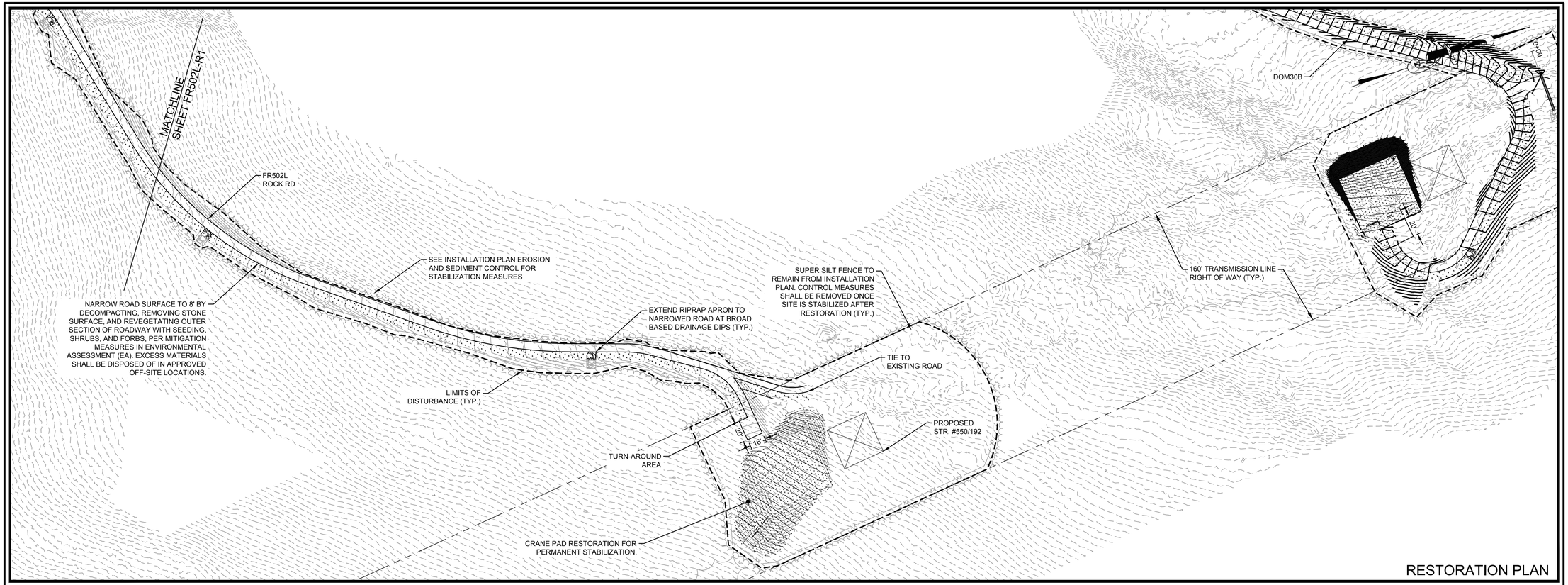
DRAWN BY ARB
APPROVED BY
CHECKED BY KAP
DATE 06/15/2021

TITLE
FR502L
ROCK RD
RESTORATION
PLAN

PROJECT NO. 50106442

FR502L-R1

SHEET NO.



RESTORATION PLAN

EARTHWORK NOTES

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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 SHEETS FR502L-01 THROUGH FR502L-07 FOR "INSTALLATION PLAN"
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5. NARROWED ROAD WIDTH AS SHOWN ON RESTORATION PLAN IS BASED ON THE AVERAGE EXISTING ROAD WIDTH DETERMINED BY LIDAR SURVEY.
6. IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
7. 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.
8. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
9. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

ROCK RD INSTALLATION PLAN EARTHWORK CALCULATIONS				
	CUT (CY)	FILL (CY)	NET (CY)	
ROCK RD IMPROVEMENT	2630	2065	565	(CUT)
INSTALL CRANE PAD AT STR. #192	622	1064	442	(FILL)
INSTALLATION TOTALS	3252	3129	123	(CUT)

ROCK RD RESTORATION PLAN EARTHWORK CALCULATIONS				
	CUT (CY)	FILL (CY)	NET (CY)	
RESTORE ROCK RD	0	544	544	(FILL)
CRANE PADS AT STR. #192	541	938	397	(FILL)
RESTORATION TOTALS	541	1482	941	(FILL)

FINAL EARTHWORK BALANCE		
	NET (CY)	
ROCK RD INSTALLATION	123	(CUT)
ROCK RD RESTORATION	941	(FILL)
ROCK RD TOTAL	818	(FILL)

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CONSTRUCTION DOCUMENTS
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REVISIONS

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TITLE
FR502L
ROCK RD
RESTORATION
PLAN

PROJECT NO. 50106442

FR502L-R2

SHEET NO.