



United States Department of Agriculture  
 Forest Service – Region Six  
 Wallowa-Whitman National Forest  
 La Grande Ranger District

NFSR 5125 & 5138 ROAD REALIGNMENT

Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	VICINITY MAP
3	ESTIMATE OF QUANTITIES
4	GENERAL NOTES
5	5125 ROAD REALIGNMENT
6	5125 STA 0+00 TO 4+37
7	5125 STA 4+37 TO 9+00
8	5125 STA 9+00 TO 13+75
9	5125 STA 13+75 TO 18+75
10	5125 STA 18+75 TO 23+51
11	5138 ROAD REALIGNMENT
12	5138 STA 0+00 TO 5+00
13	5138 STA 5+00 TO 10+00
14	5138 STA 10+00 TO 15+00
15	5138 STA 15+00 TO 20+00
16	5138 STA 20+00 TO 25+13
17	ROAD DETAIL
18	DRAIN DIP DETAIL
19	DRAINAGE DETAILS
20	PIT DEVELOPMENT DETAIL



United States Department of Agriculture  
 Forest Service

R6  
 PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
 ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
 NATIONAL FOREST**

**LA GRANDE RANGER  
 DISTRICT**

DRAWING TITLE

**TITLE SHEET**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN

R. MILLS

CHECKED

K. YOUNG

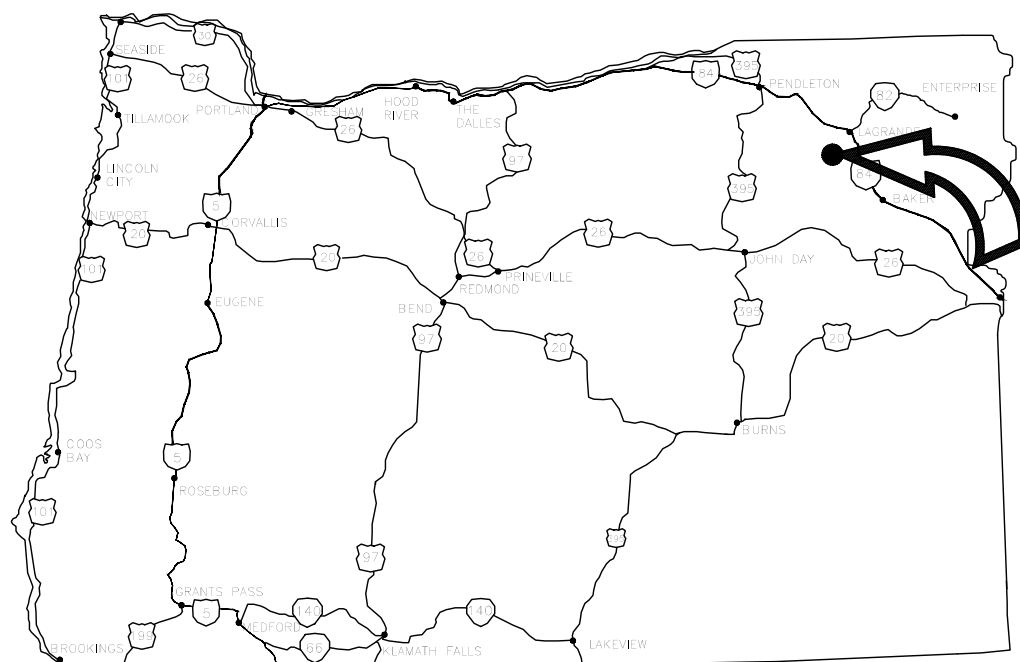
PROJECT NO.

DWG SHEET NO.

1

SHEET 1 OF 20

Area Location Map



KEY MAP OF OREGON SHOWING LOCATION OF PROJECT

APPROVED BY:

RECREATION AND ENGINEERING STAFF OFFICER

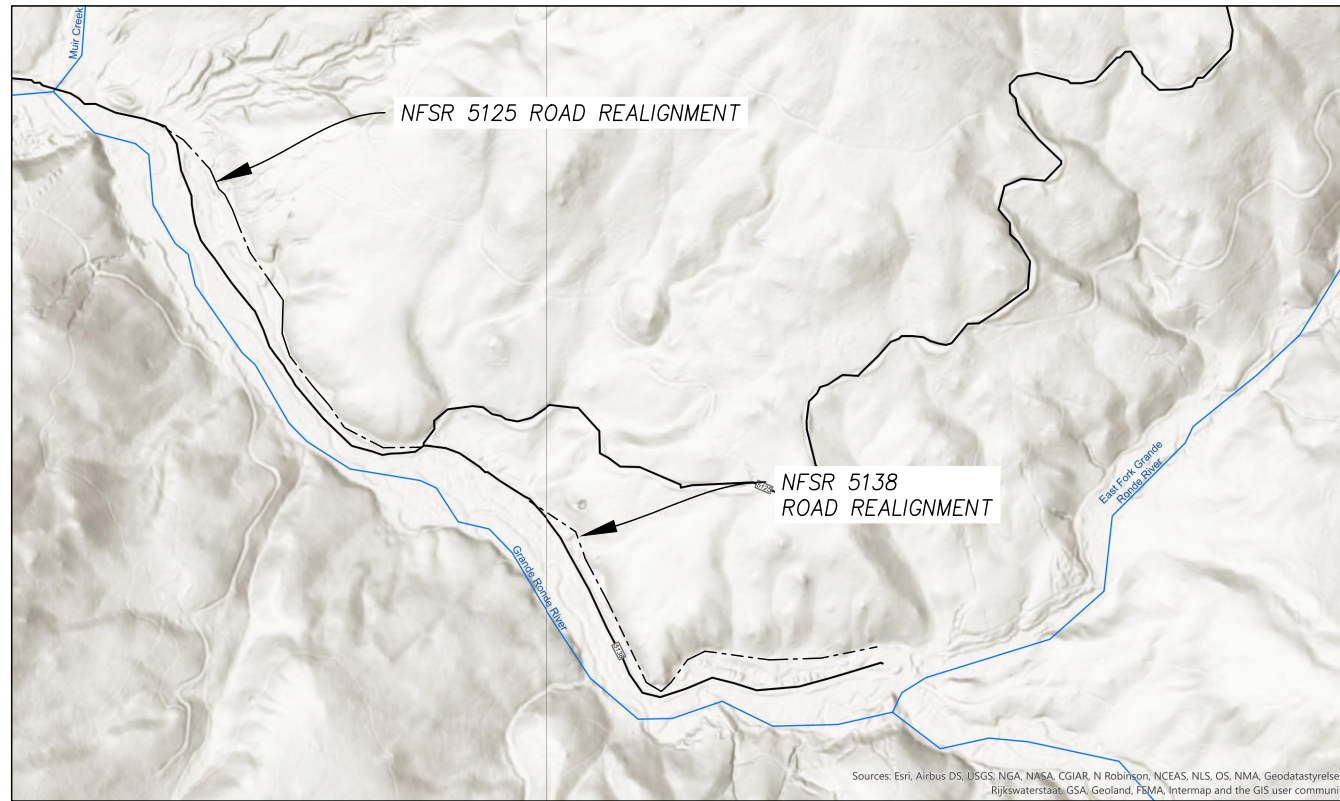
DATE

APPROVED BY:

THESE DRAWINGS COMPLY WITH THE FOREST PLAN AND PROJECT SPECIFIC  
 NEPA DOCUMENTATION.

DISTRICT RANGER

DATE



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

LEGEND	
	MATERIAL SOURCE
	WATER SOURCE
	NATIONAL FOREST SERVICE ROADS (NFSR)
	ROAD REALIGNMENT



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

**VICINITY MAP**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN

R. MILLS

CHECKED

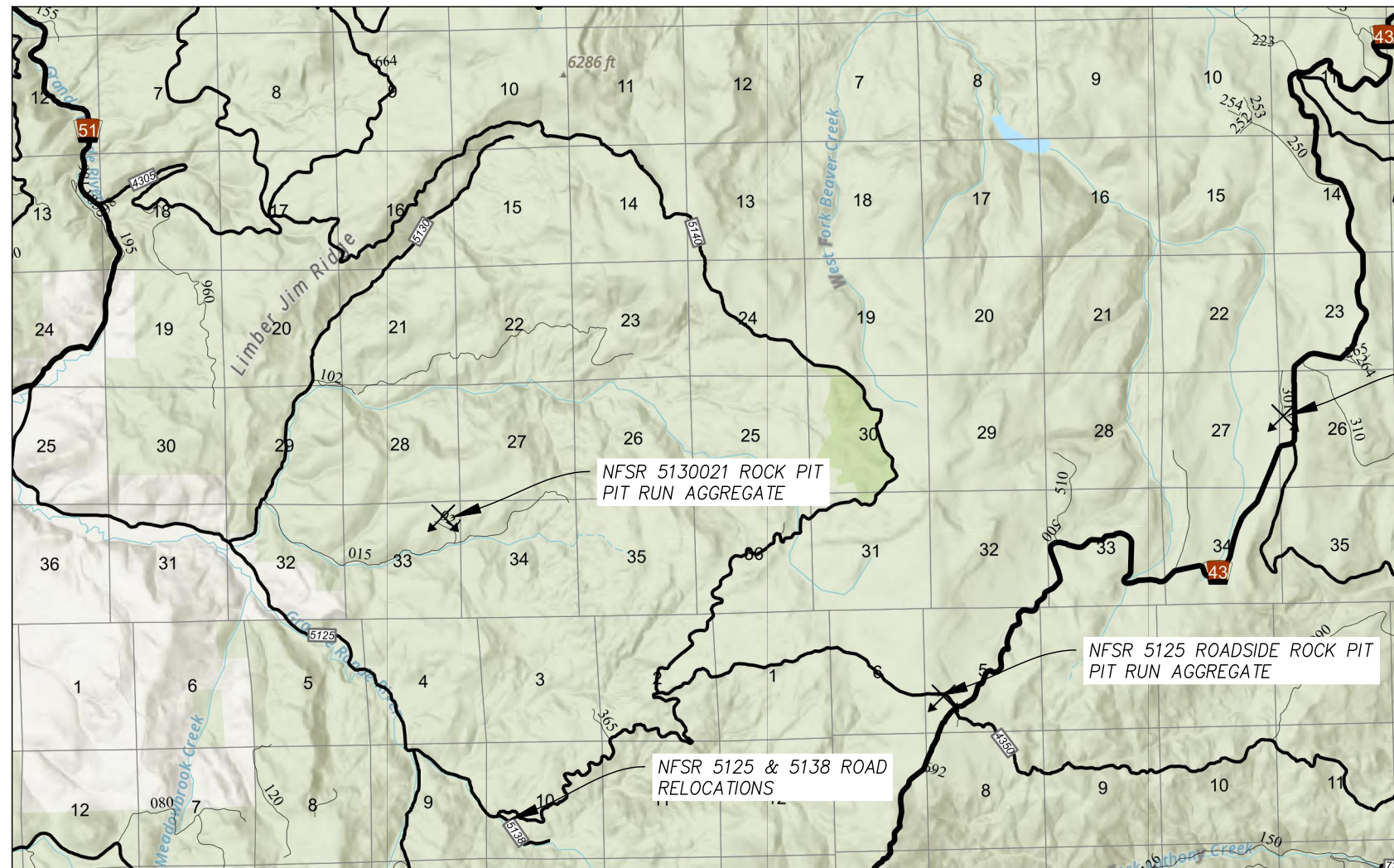
K. YOUNG

PROJECT NO.

DWG SHEET NO.

**2**

SHEET 2 OF 20



NFSR 4300301 ROCK PIT  
CRUSHED AGGREGATE

10/13/23 13:05 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\15125 RELOCATION\DRAWINGS\VICINITY MAP.DWG

10/13/23 13:05 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\15125 RELOCATION\DRAWINGS\VICINITY MAP.DWG

ITEM NO.	DESCRIPTION	METHOD OF MEASURE	UNIT	QUANTITY	REMARKS
<b>NFSR 5125 Road Relocation</b>					
15101	Mobilization		LS	All	Includes equipment cleaning.
15201	Construction Survey and Staking, Method II, tolerance class B		LS	All	Use applicable tolerance for Slope-stakes; tolerance class B from FP-14 table 152-1.
15713	Soil Erosion and Pollution Control		LS	All	Provide Soil and Erosion Control Plan for approval by CO. Clearing Slash & Scattered Weed Free Straw may be used as approved for temporary and permanent measures in the Soil and Erosion Control Plan.
20101	Clearing and Grubbing, Logs Disposal Method (i): Decking, Slash Disposal Method (f): Scattering		LS	All	Trees greater than 8" dbh shall be decked with root wads attached as agreed to with C.O. Clearing and grubbing slash shall be scattered at the project site.
20401	Roadway Excavation and Embankment, compaction method 2, construction tolerance D	CQ	CY	9000	Approximately 4500 CY cut and 4500 CY Fill.
30103	Aggregate Base, grading D, Government Source compaction method 2, haul and place	CQ	CY	800	Crushed aggregate is located in NFSR 4300301 rock pit. Crushed aggregate may be also salvaged from existing NFSR 5125 roadway.
30106	Pit Run, 6" minus, compaction method 2, haul and place	CQ	CY	800	See pit development plan, sheet 20 for material sources.
31401	Stockpiled Aggregates		LS	All	Item includes pit development of material sources.
60218	18" CMP, Compaction Method 2		LF	92	
60236	36" CMPA, Compaction Method 2		LF	56	
63501	Temporary Traffic Control		LS	All	Contractor to submit temporary traffic control plan to be approved by CO.
<b>NFSR 5138 Road Relocation</b>					
15101.A	Mobilization		LS	All	
15201.A	Construction Survey and Staking, Method II, tolerance class B		LS	All	Use applicable tolerance for Slope-stakes; tolerance class B from FP-14 table 152-1.
15713.A	Soil Erosion and Pollution Control		LS	All	
20101.A	Clearing and Grubbing, Logs Disposal Method (i): Decking, Slash Disposal Method (f): Scattering		LS	All	Trees greater than 8" dbh shall be decked with root wads attached as agreed to with C.O. Clearing and grubbing slash shall be scattered at the project site.
20401.A	Roadway Excavation and Embankment, compaction method 2, construction tolerance D	CQ	CY	4400	Approximately 2200 CY cut and 2200 CY of fill.
30103.A	Aggregate Base, grading D, Government Source compaction method 2, haul and place	CQ	CY	743	Crushed aggregate is located in NFSR 4300301 rock pit. Crushed aggregate may be also salvaged from existing NFSR 5138 roadway.
30106.A	Pit Run, 6" minus, compaction method 2, haul and place	CQ	CY	700	See pit development plan, sheet 20 for material sources.
60218.A	18" CMP, Compaction Method 2		LF	154	
63501.A	Temporary Traffic Control		LS	All	



United States Department of Agriculture  
Forest Service

**R6**  
**PACIFIC NORTHWEST**

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**ESTIMATE OF  
QUANTITIES**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN

R. MILLS

CHECKED

K. YOUNG

PROJECT NO.

DWG SHEET NO.

**3**

SHEET 3 OF 20

**GENERAL NOTES:**

**SPECIFICATIONS**

CONSTRUCTION: MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FP-14 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS WITH APPLICABLE FOREST SERVICE SUPPLEMENTAL SPECIFICATIONS (FSSS).

**MATERIALS**

WATER: WATER IS AVAILABLE WITH A VALID LIMITED WATER USE LICENSE FROM THE OREGON WATER RESOURCES DEPARTMENT. LOCATION FOR WATER WITHDRAWAL FROM FOREST SERVICE LANDS SHALL BE COORDINATED WITH FOREST SERVICE.

THE MATERIAL SOURCE FOR CRUSHED AGGREGATE SHALL NFSR 4300301. PIT RUN, JAW RUN, AND BORROW SITES ARE LOCATED ON THE PLANS.

**REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

REMOVE AND DISPOSE OF EXISTING TREATED TIMBER BRIDGE, CONCRETE ABUTMENTS, AND ALL ASSOCIATED ITEMS LEGALLY OFF FOREST SYSTEM LANDS.

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT LOCAL UTILITY COMPANIES TO LOCATE ANY BURIED UTILITIES BEFORE EXCAVATING

**STAGING**

STAGE EQUIPMENT AT APPROVED LOCATIONS WHEN NOT IN USE OR PROVIDE ALTERNATE PLAN FOR APPROVAL

**SUBMITTALS**

**INSPECTION**

RECEIVE WRITTEN APPROVAL FROM FOREST SERVICE PRIOR TO ANY OF THE FOLLOWING ACTIVITIES:

- CLEARING AND GRUBBING NEW ROAD CONSTRUCTION
- PLACEMENT OF BASE COURSE ROCK ON SUBGRADE

**EXCAVATION**

**TRAFFIC CONTROL**

SEE FSSS TABLE 156-1 FOR ROAD CLOSURE LOCATION AND PERIODS.

PLACE TRAFFIC CONTROL SIGNS AS APPROPRIATE ON ALL ROADS WHERE CONSTRUCTION TRAFFIC MAY CREATE A HAZARD OR WHERE CONSTRUCTION TRAFFIC MAY IMPEDE THE NORMAL FLOW OF VEHICLES. PLACE ROAD CLOSED SIGN AT NFSR

THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING OVERLOAD PERMITS ON COUNTY, STATE, AND FEDERAL ROADS. CONTACT CO FOR FOREST SERVICE OVERLOAD PERMIT APPLICATION. SEPARATE PERMIT IS REQUIRED FOR EACH OVERLOAD CONFIGURATION.

**SOIL EROSION AND SEDIMENT CONTROL**

CONTRACTOR TO SUBMIT SOIL EROSION AND SEDIMENT CONTROL PLAN IN WRITING TO C.O. THAT LIMITS SEDIMENT AND FOREIGN SUBSTANCE INPUTS TO ADJACENT WATER BODIES. PLAN SHOULD DETAIL BEST MANAGEMENT PRACTICES AND CONTROLS. PURCHASER RESPONSIBLE FOR SEDIMENT MONITORING AND CORRECTIVE ACTION IF NECESSARY.



United States Department of Agriculture  
Forest Service

**R6  
PACIFIC NORTHWEST**

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**GENERAL NOTES**

DATE

**10/13/2023**

ARCHIVE NO.

**FS090523\_R102013\_L1-002.dwg**

DESIGNER

**R. MILLS**

DRAWN

**R. MILLS**

CHECKED

**K. YOUNG**

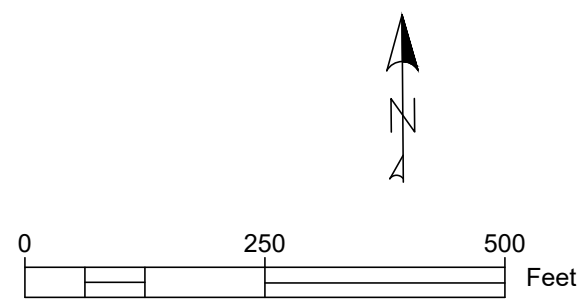
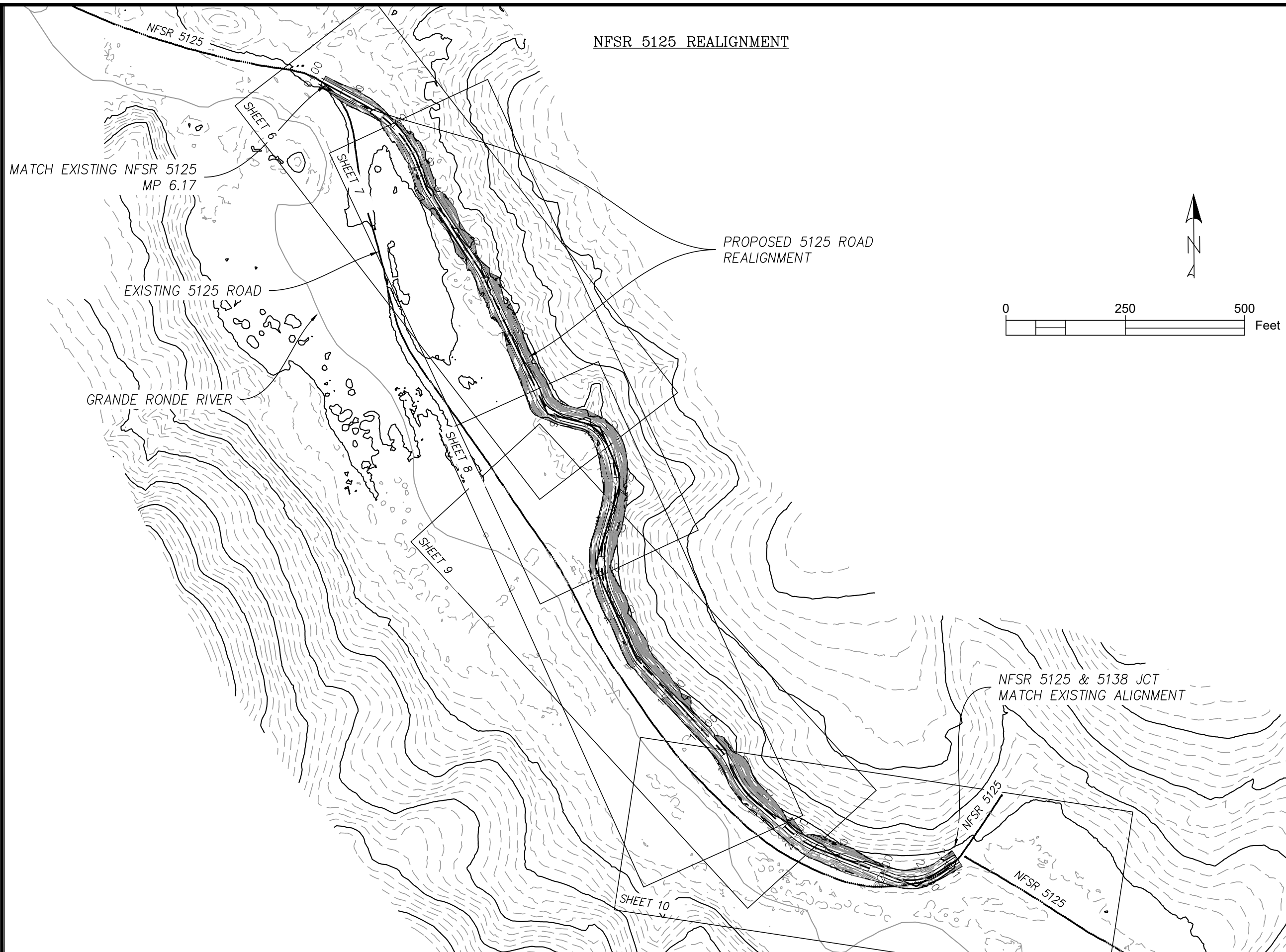
PROJECT NO.

DWG SHEET NO.

**4**

SHEET **4** OF **20**

NFSR 5125 REALIGNMENT



**R6**  
PACIFIC NORTHWEST

PROJECT NAME  
**NFSR 5125 & 5138 ROAD REALIGNMENT**

**WALLOWA WHITMAN NATIONAL FOREST**

LA GRANDE RANGER DISTRICT

DRAWING TITLE  
**5125 ROAD REALIGNMENT**

DATE  
10/13/2023

ARCHIVE NO.  
FS090523\_R102013\_L1-002.dwg

DESIGNER #####	DWG SHEET NO. <b>5</b>
-------------------	---------------------------

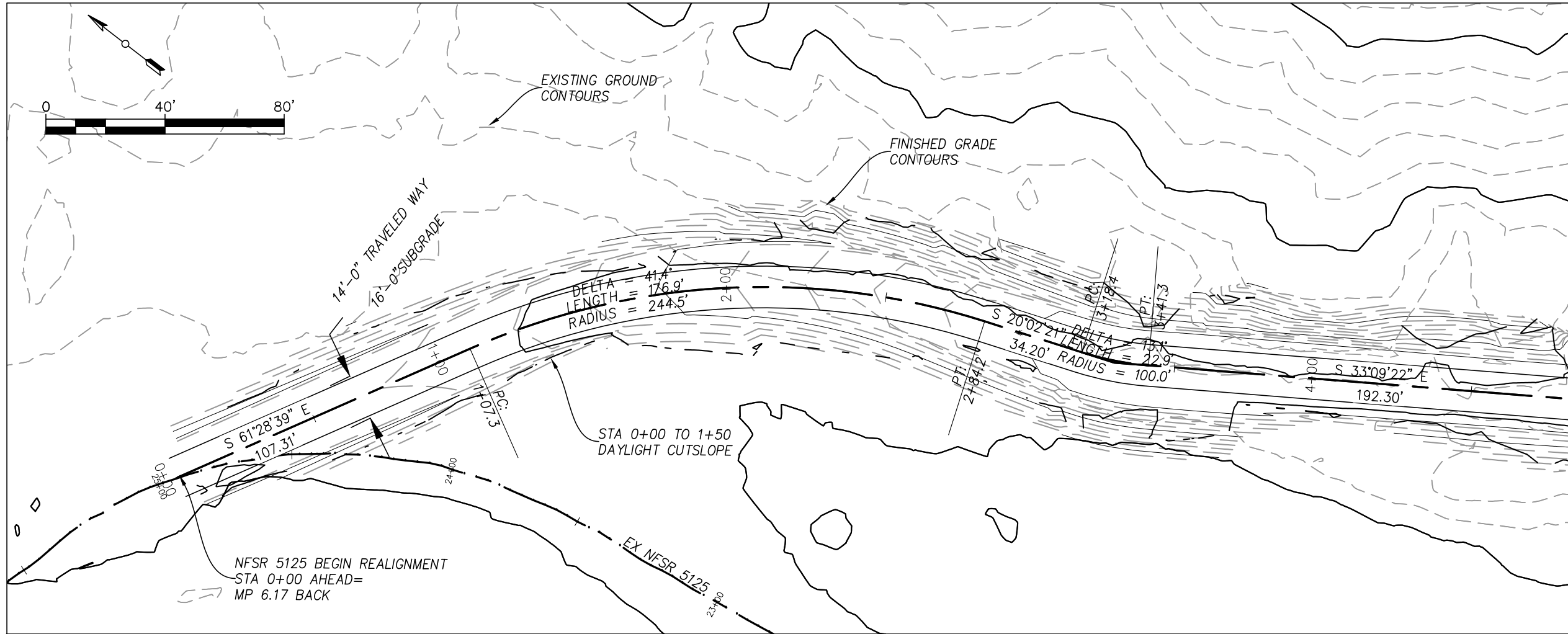
DRAWN R. MILLS	
-------------------	--

CHECKED K. YOUNG	
---------------------	--

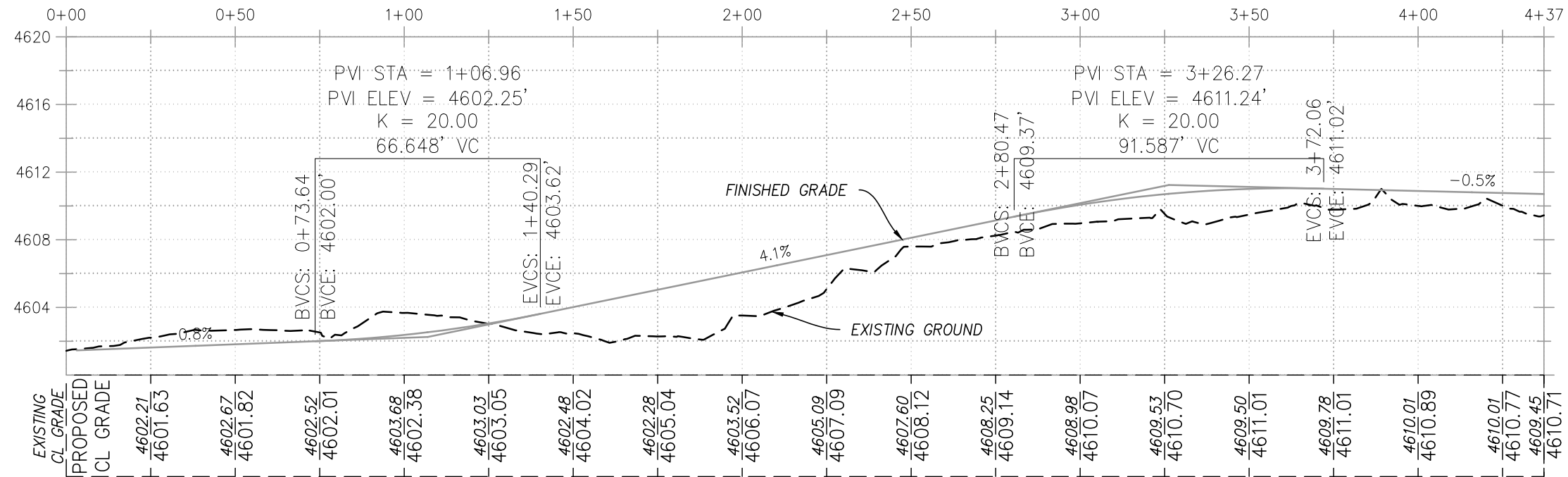
PROJECT NO.	SHEET 5 OF 20
-------------	---------------

10/13/23 12:24 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\5125\_RELO\_BALANCED\_ROAD.DWG

10/13/23 11:02 RICARD\MILLS C:\USERS\RICARD\MILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 REALIGNMENT - (13).DWG



PROFILE VIEW OF NFSR 5125 REALIGNMENT  
HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 8'



United States Department of Agriculture  
Forest Service

R6  
PACIFIC NORTHWEST

PROJECT NAME

NFSR 5125 & 5138  
ROAD REALIGNMENT

WALLOWA WHITMAN  
NATIONAL FOREST

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

5125 STA 0+00 TO 4+37

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DWG SHEET NO.

6

DRAWN

R. MILLS

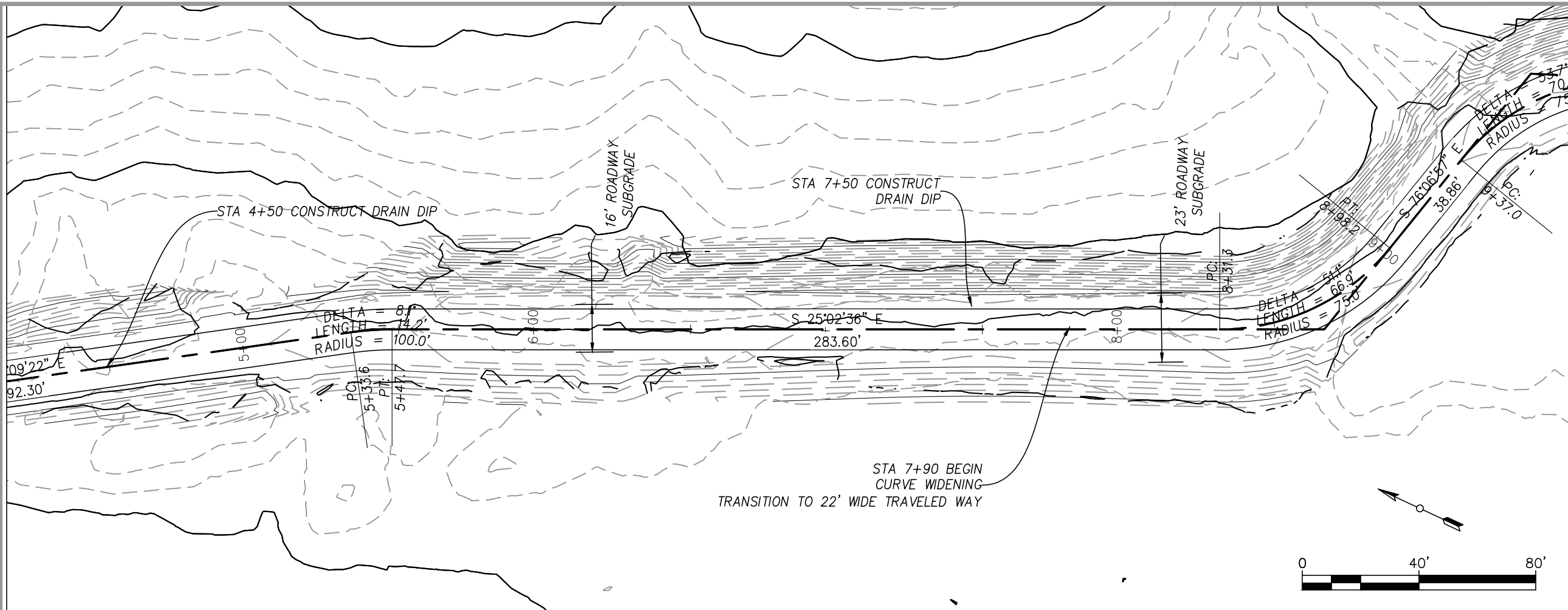
CHECKED

K. YOUNG

PROJECT NO.

SHEET 6 OF 20

10/13/23 11:01 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\5125 REALIGNMENT - (14).DWG;



United States Department of Agriculture  
Forest Service

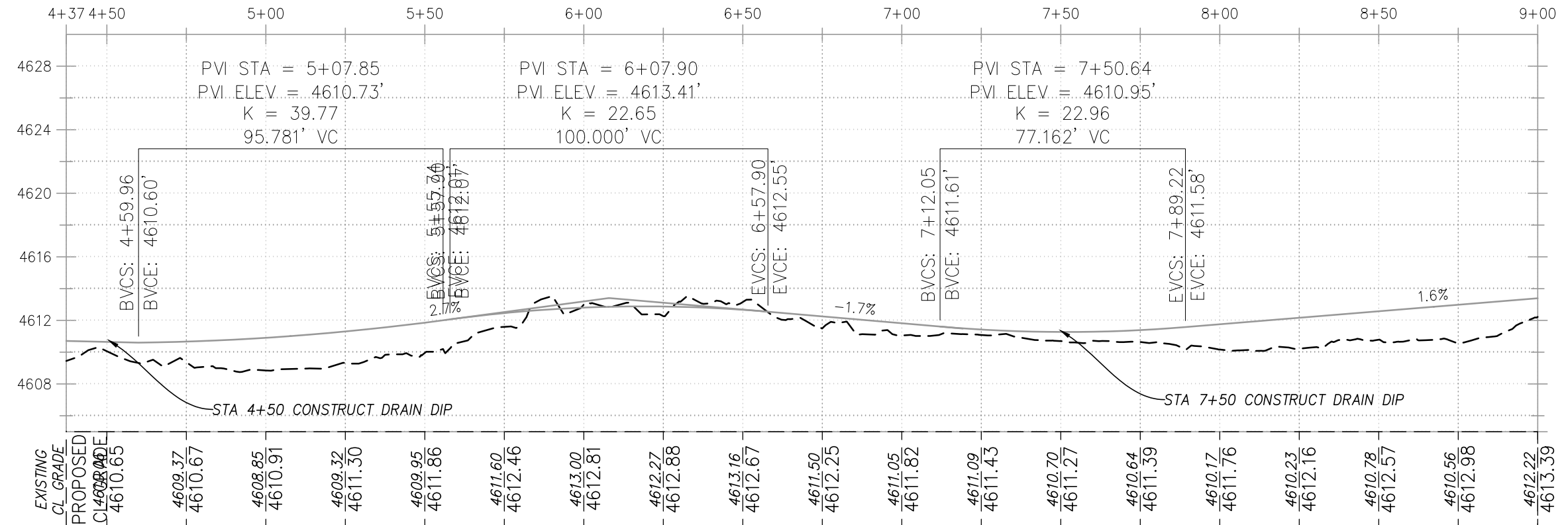
**R6**  
PACIFIC NORTHWEST

PROJECT NAME  
**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

PROFILE VIEW OF NFSR 5125 REALIGNMENT  
HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 8'



DRAWING TITLE  
**5125 STA 4+37 TO 9+00**

DATE  
**10/13/2023**

ARCHIVE NO.  
**FS090523\_R102013\_L1-002.dwg**

DESIGNER  
**R. MILLS**

DWG SHEET NO.  
**7**

DRAWN  
**R. MILLS**

CHECKED  
**K. YOUNG**

PROJECT NO. SHEET **7** OF **20**



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**5125 STA 9+00 TO  
13+75**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DWG SHEET NO.

**8**

DRAWN

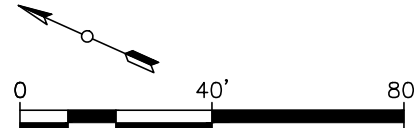
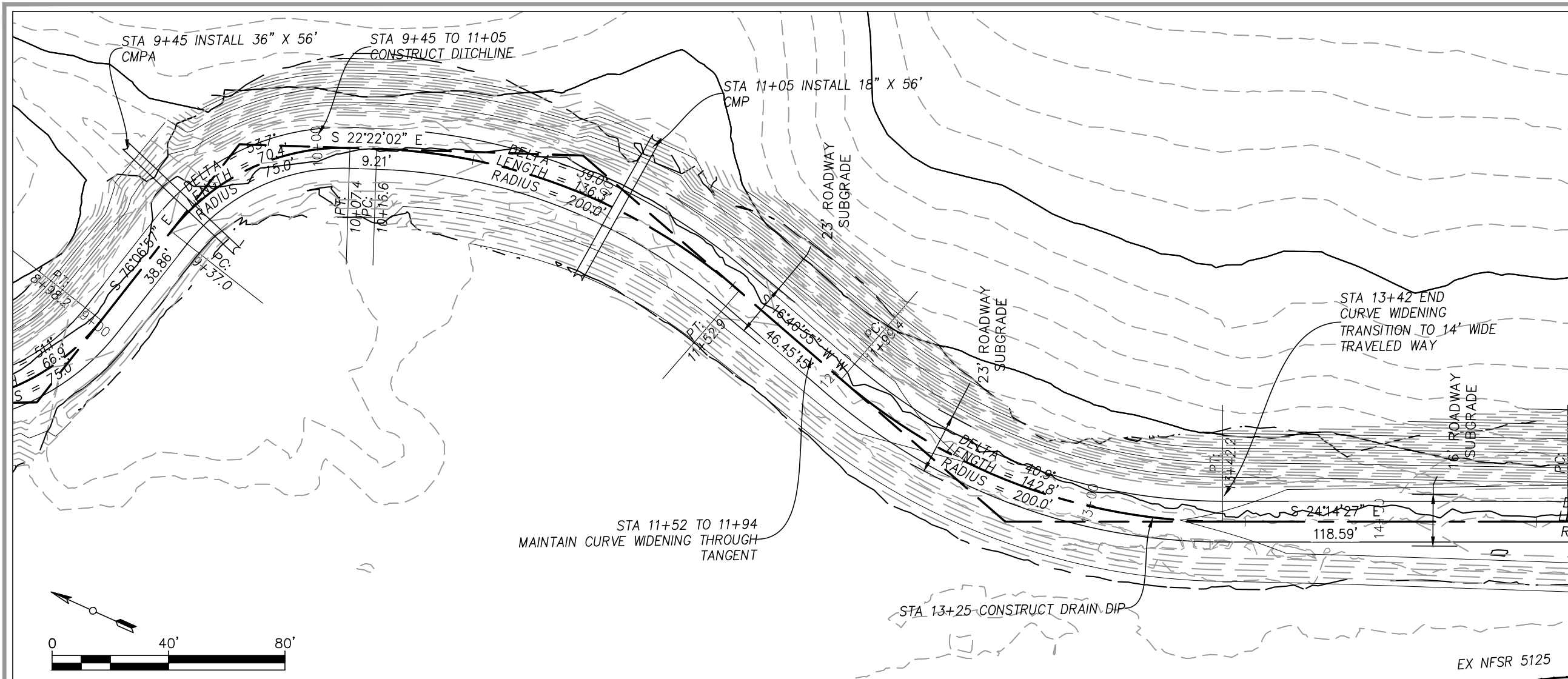
R. MILLS

CHECKED

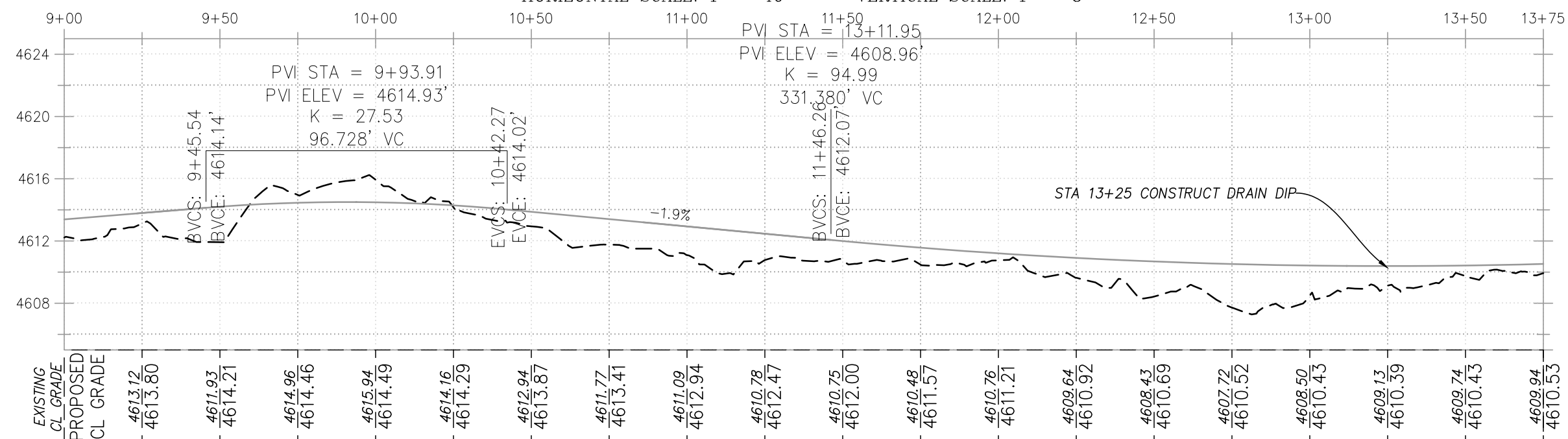
K. YOUNG

PROJECT NO.

SHEET 8 OF 20



PROFILE VIEW OF NFSR 5125 REALIGNMENT  
HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 8'



10/13/23 11:04 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATIONS\5125 REALIGNMENT - (15).DWG



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**5125 STA 13+75 TO  
18+75**

DATE

**10/13/2023**

ARCHIVE NO.

**FS090523\_R102013\_L1-002.dwg**

DESIGNER

**R. MILLS**

DWG SHEET NO.

**9**

DRAWN

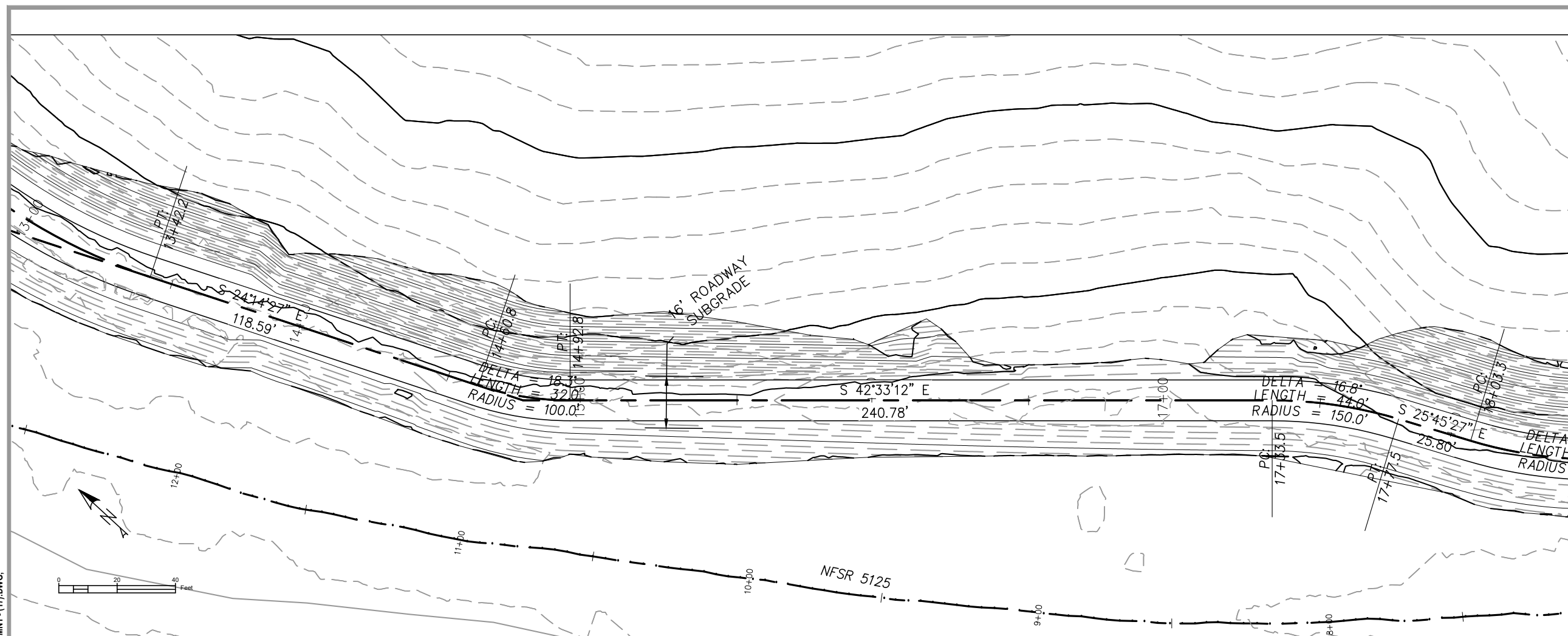
**R. MILLS**

CHECKED

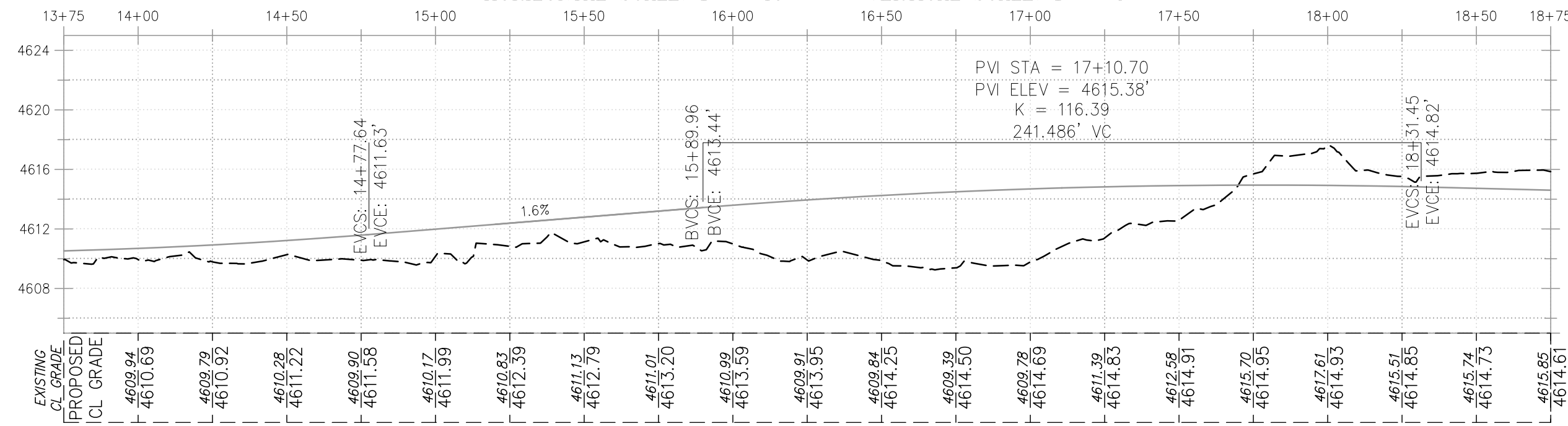
**K. YOUNG**

PROJECT NO.

SHEET **9** OF 20

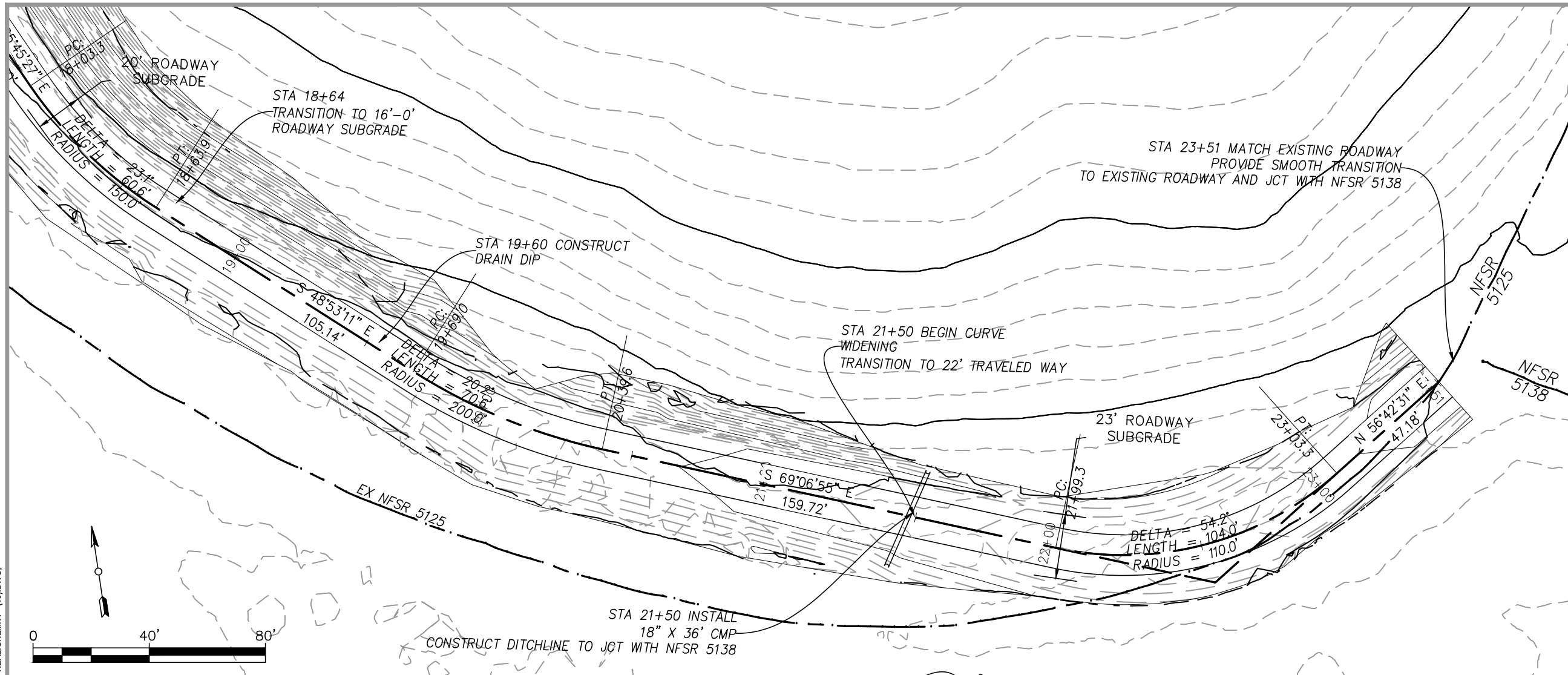


PROFILE VIEW OF NFSR 5125 REALIGNMENT  
HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 8'

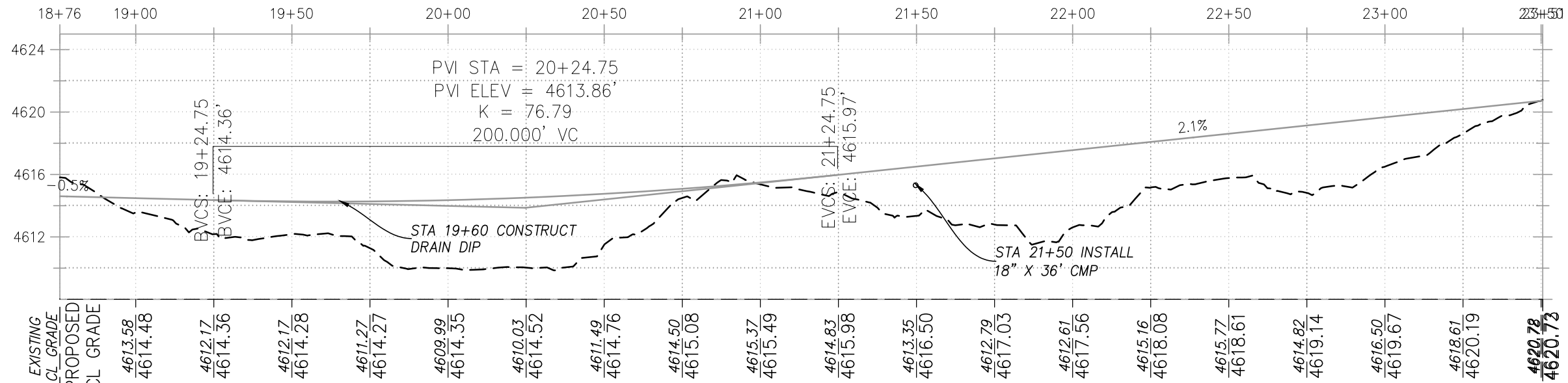


10/13/23 11:07 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\5125 REALIGNMENT - (17).DWG

10/13/23 11:06 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATIONS\5125 REALIGNMENT - (16).DWG



PROFILE VIEW OF NFSR 5125 REALIGNMENT  
 HORIZONTAL SCALE: 1" = 40'      VERTICAL SCALE: 1" = 8'



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

**5125 STA 18+75 TO  
23+51**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DWG SHEET NO.

**10**

DRAWN

R. MILLS

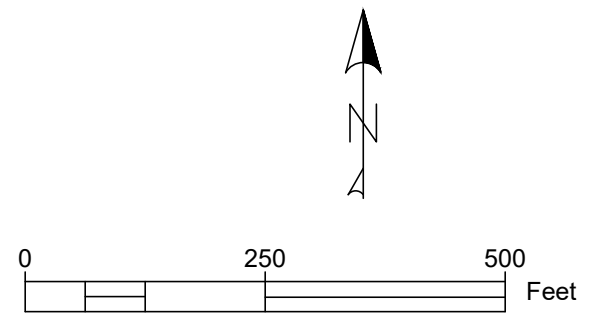
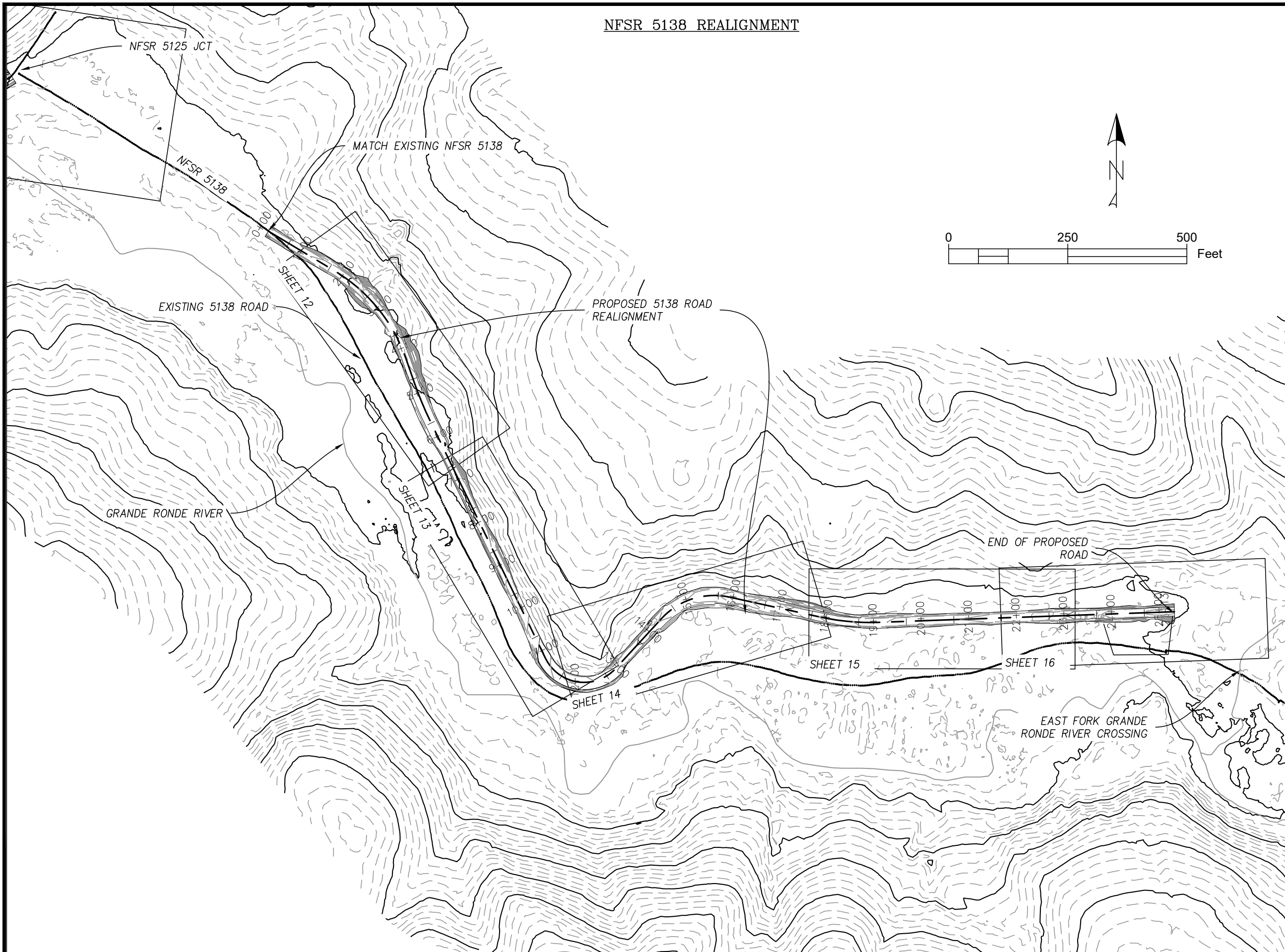
CHECKED

K. YOUNG

PROJECT NO.

SHEET 10 OF 20

NFSR 5138 REALIGNMENT



United States Department of Agriculture  
Forest Service

R6  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**5138 ROAD  
REALIGNMENT**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN

R. MILLS

CHECKED

K. YOUNG

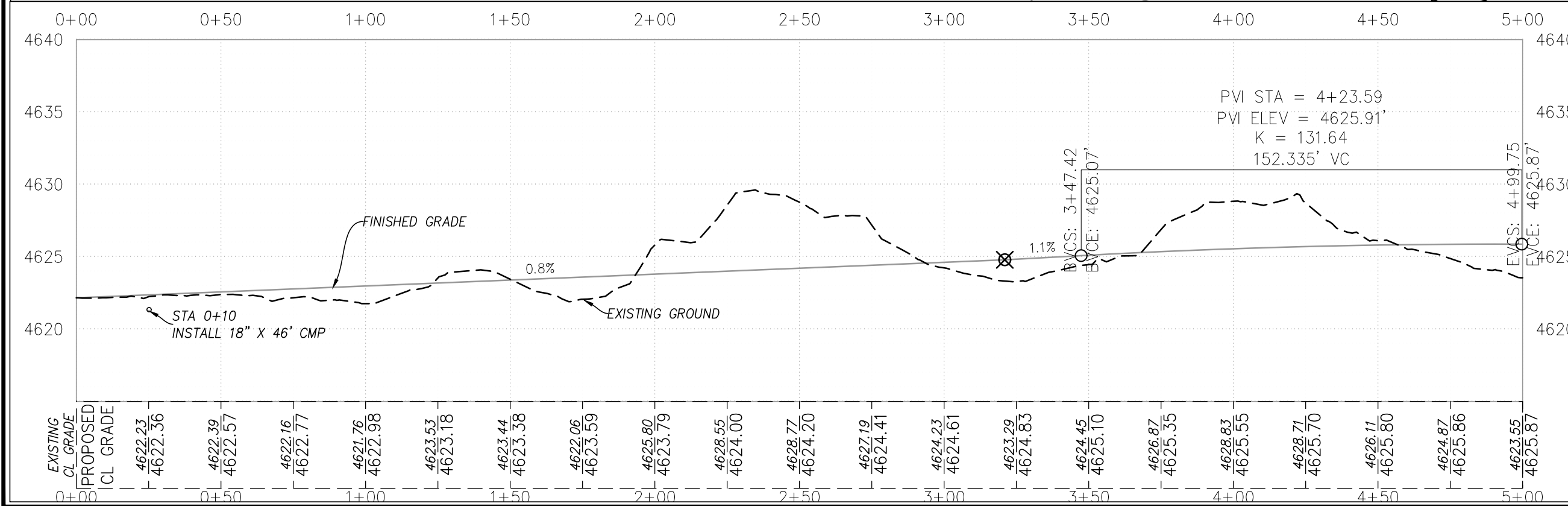
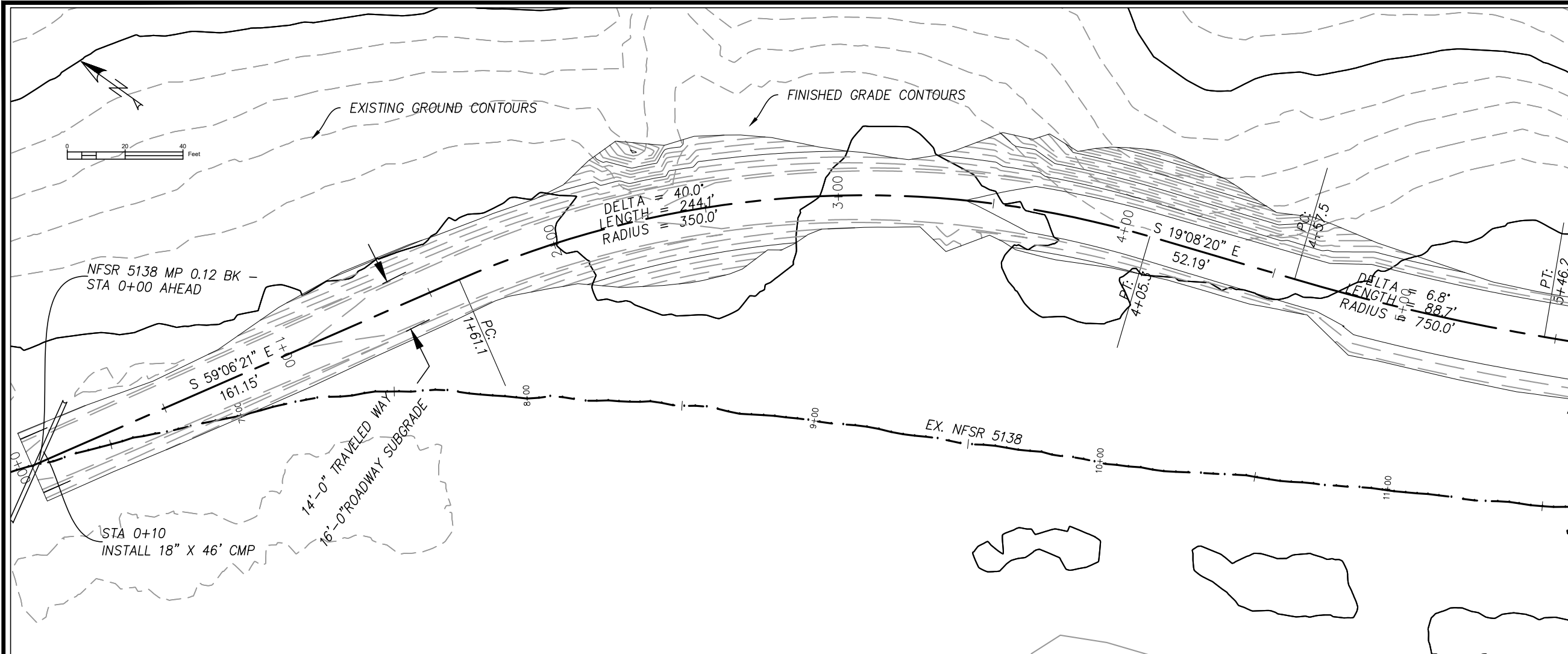
PROJECT NO.

DWG SHEET NO.

**11**

SHEET 11 OF 20

101325 12.48 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\5138 ROAD RELOCATION - (2).DWG



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHEAST

PROJECT NAME  
**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE  
**5138 STA 0+00 TO 5+00**

DATE  
**10/13/2023**

ARCHIVE NO.  
**FS090523\_R102013\_L1-002.dwg**

DESIGNER  
**10/13/2023**

DRAWN  
**R. MILLS**

CHECKED  
**K. YOUNG**

PROJECT NO.

DWG SHEET NO.

**12**

SHEET 12 OF 20



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**5138 STA 5+00 TO  
10+00**

DATE

**10/13/2023**

ARCHIVE NO.

**FS090523\_R102013\_L1-002.dwg**

DESIGNER

**R. MILLS**

DWG SHEET NO.

**13**

DRAWN

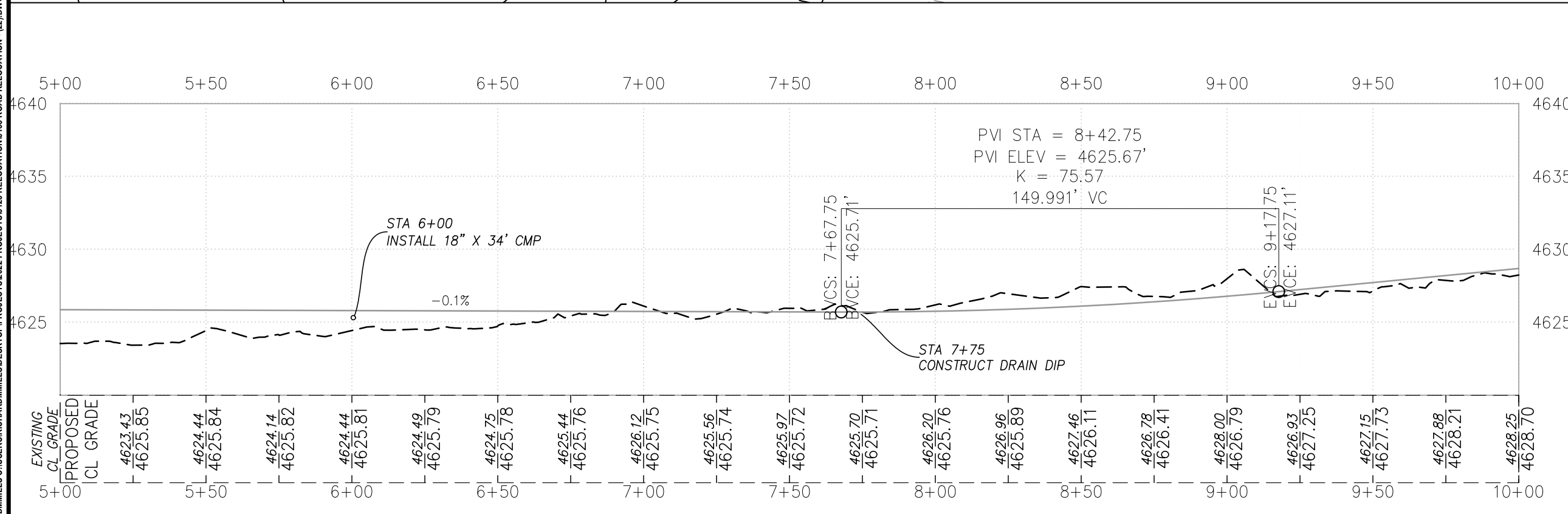
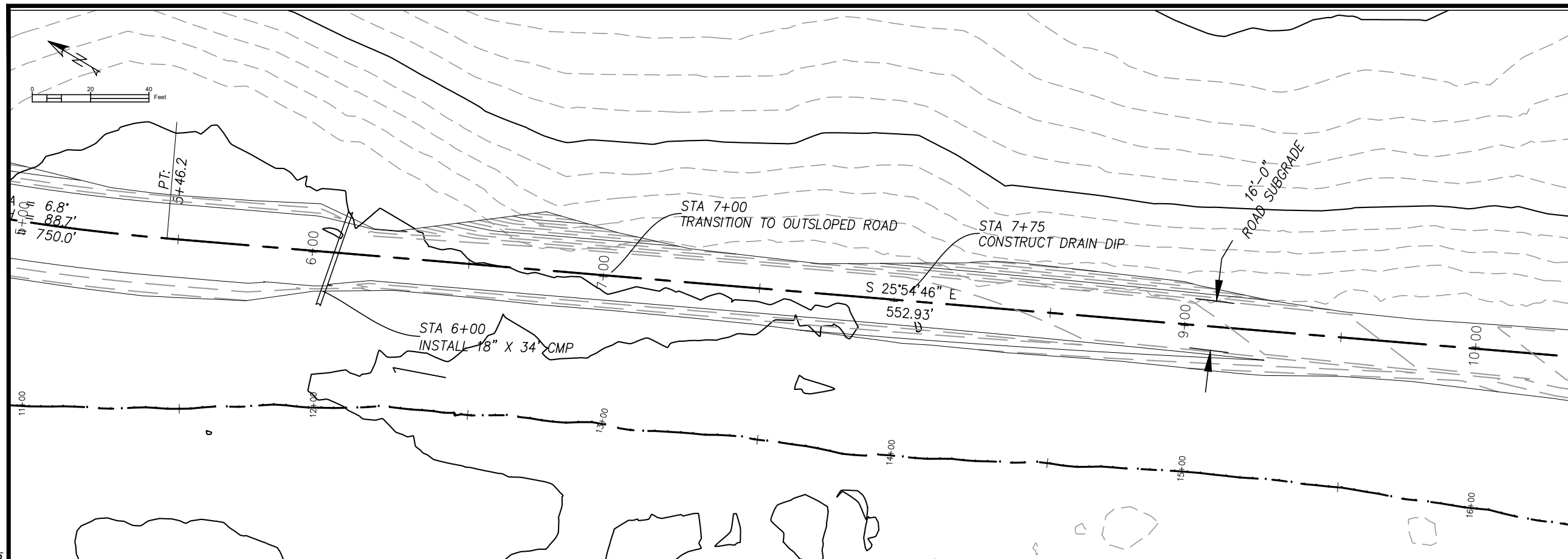
**R. MILLS**

CHECKED

**K. YOUNG**

PROJECT NO.

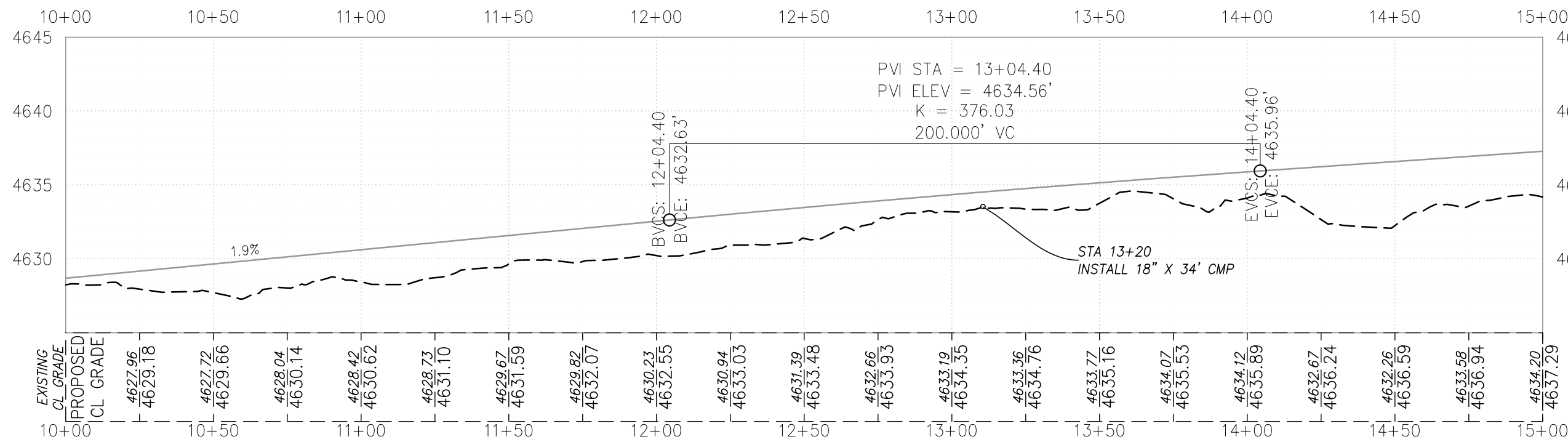
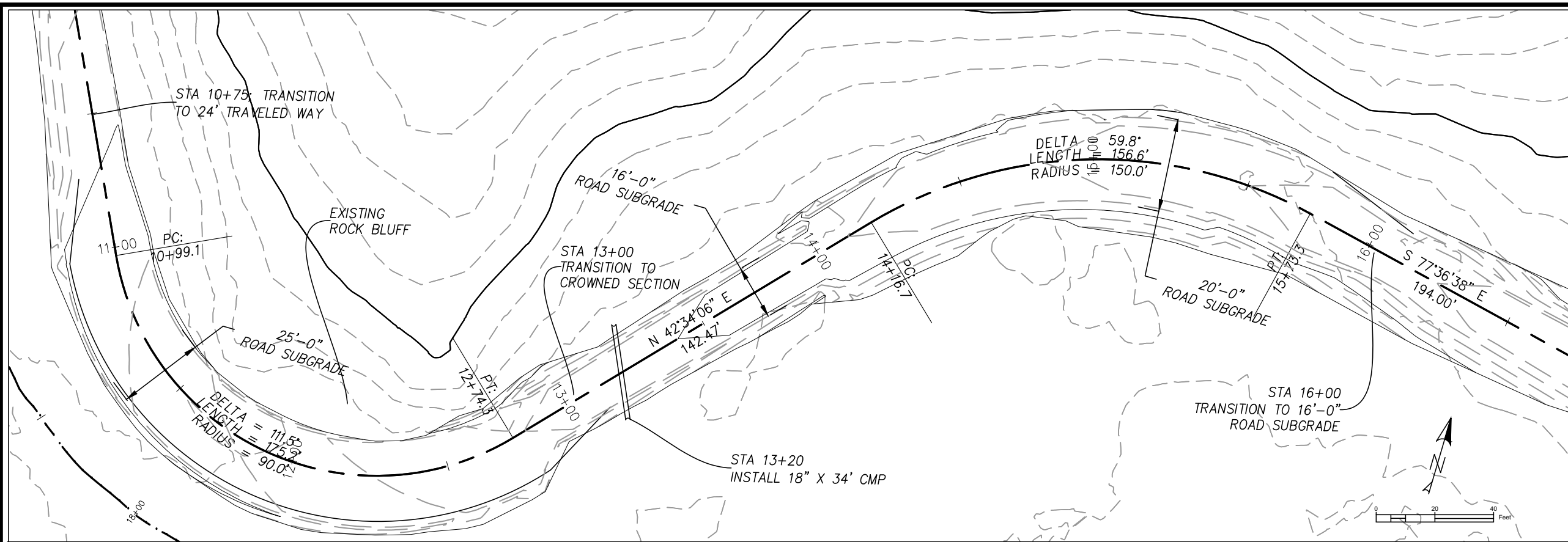
SHEET **13** OF **20**




Profile View of NFSR 5138 REALIGNMENT  
VERTICAL EXAGGERATION: 5

10/12/23 17:12 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022\PROJECTS\5125 RELOCATION\5138 ROAD REALIGNMENT - (2).DWG;

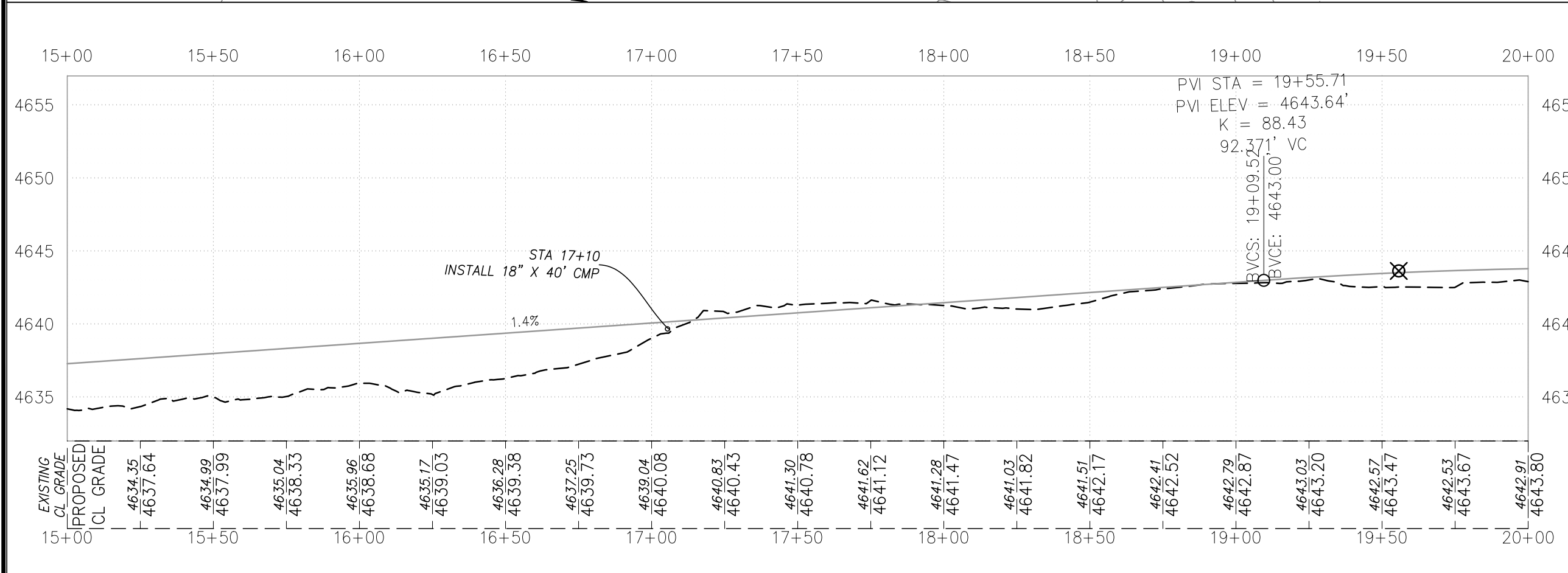
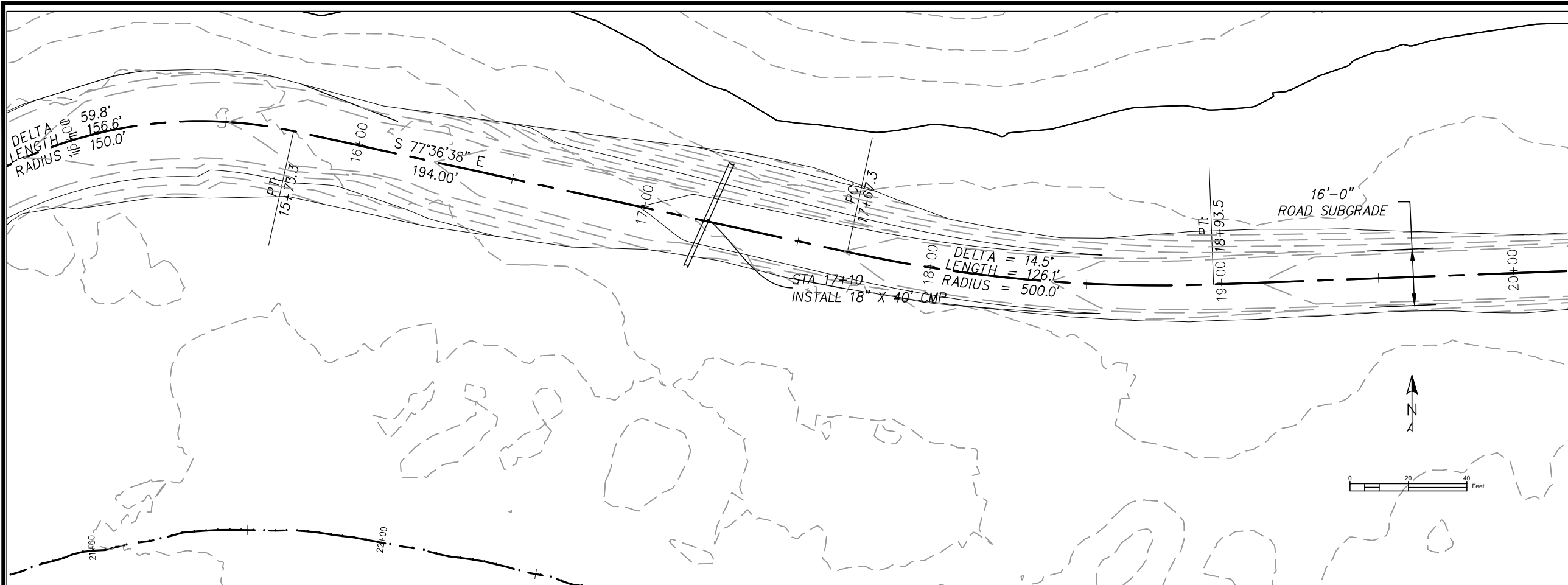
10/13/23 12:33 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\5125 RELOCATION\5138 ROAD RELOCATION - (23).DWG



Profile View of NFSR 5138 REALIGNMENT  
VERTICAL EXAGGERATION: 5

 <p>United States Department of Agriculture Forest Service</p> <p><b>R6</b> PACIFIC NORTHWEST</p>	
<p>PROJECT NAME</p> <p><b>NFSR 5125 &amp; 5138 ROAD REALIGNMENT</b></p> <p><b>WALLOWA WHITMAN NATIONAL FOREST</b></p> <p>LA GRANDE RANGER DISTRICT</p>	
<p>DRAWING TITLE</p> <p><b>5138 STA 10+00 TO 15+00</b></p>	
<p>DATE</p> <p>10/13/2023</p>	
<p>ARCHIVE NO.</p> <p>FS090523_R102013_L1-002.dwg</p>	
<p>DESIGNER</p> <p><b>R. MILLS</b></p>	<p>DWG SHEET NO.</p> <p><b>14</b></p>
<p>DRAWN</p> <p><b>R. MILLS</b></p>	
<p>CHECKED</p> <p><b>K. YOUNG</b></p>	
<p>PROJECT NO.</p>	<p>SHEET <b>14</b> OF <b>20</b></p>

10/13/23 12:33 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\5138 ROAD RELOCATION - (29).DWG



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHEAST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**5138 STA 15+00 TO  
20+00**

DATE

**10/13/2023**

ARCHIVE NO.

**FS090523\_R102013\_L1-002.dwg**

DESIGNER

**R. MILLS**

DRAWN

**R. MILLS**

CHECKED

**K. YOUNG**

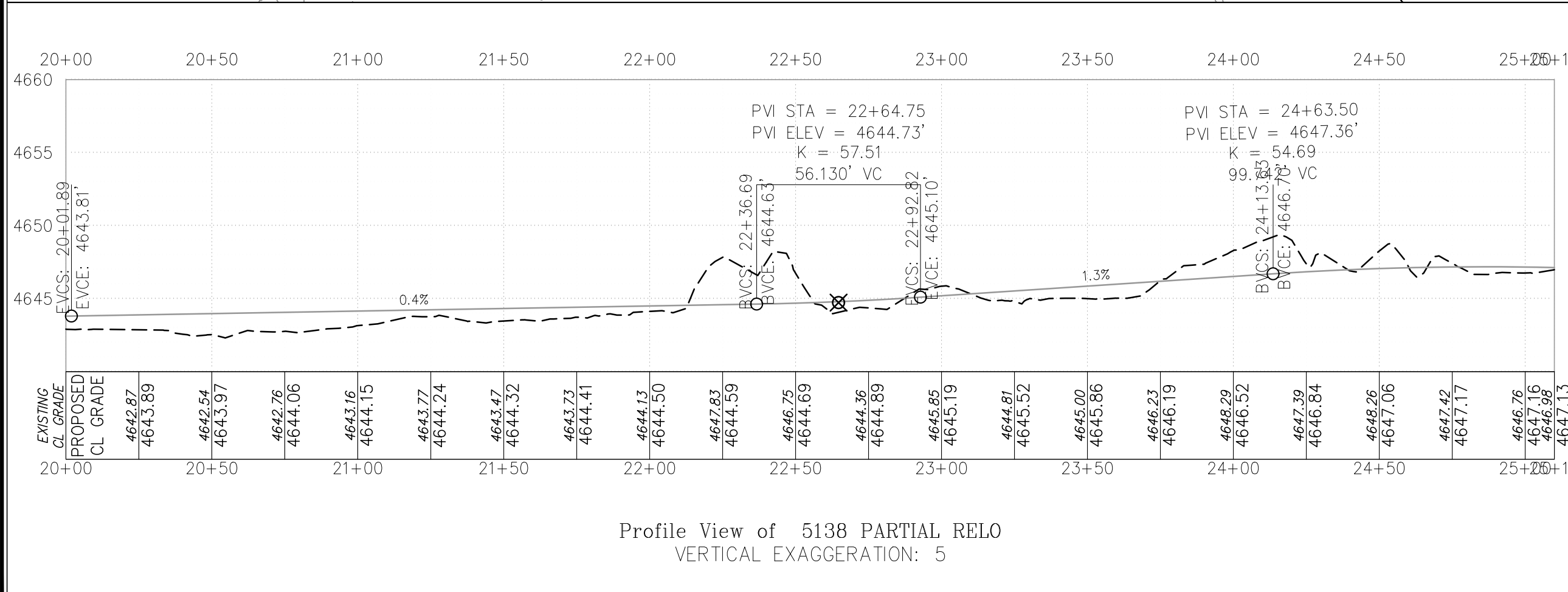
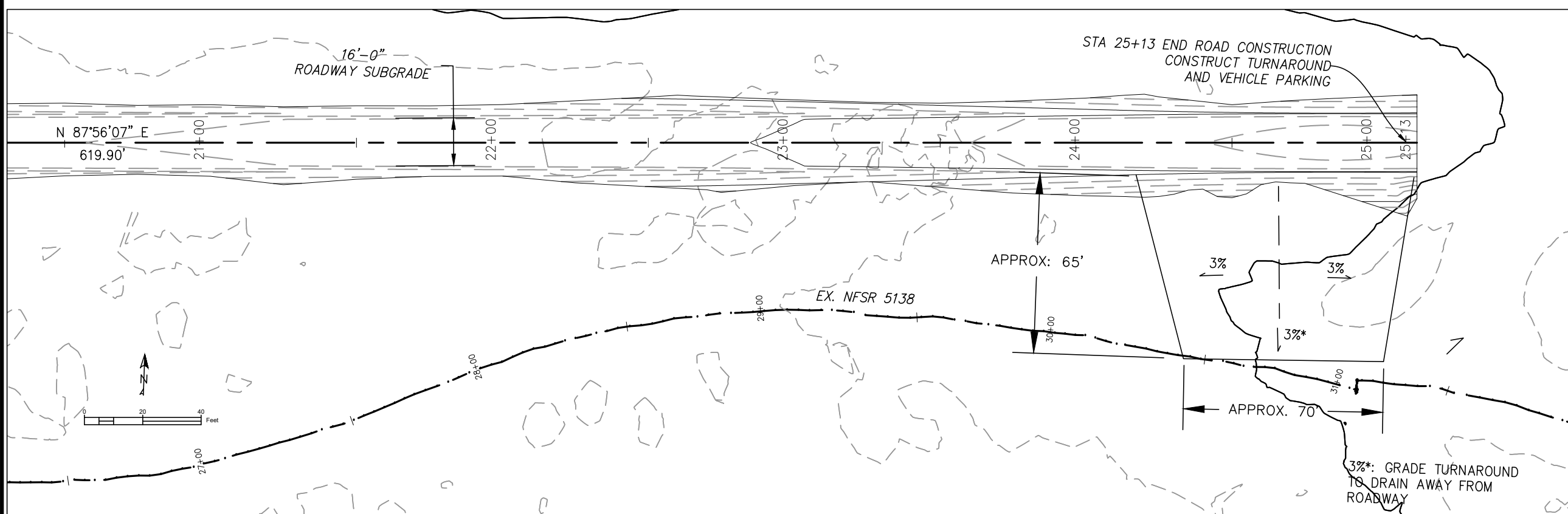
PROJECT NO.

DWG SHEET NO.

**15**

SHEET 15 OF 20

10/13/23 12:31 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022\PROJECTS\5125 RELOCATIONS\5138 ROAD RELOCATION - (25).DWG



Profile View of 5138 PARTIAL RELO  
VERTICAL EXAGGERATION: 5



United States Department of Agriculture  
Forest Service

R6  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

**5138 STA 20+00 TO  
25+13**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DWG SHEET NO.

**16**

DRAWN

R. MILLS

CHECKED

K. YOUNG

PROJECT NO.

SHEET 16 OF 20

# 201- CLEARING AND GRUBBING 204 - EXCAVATION AND EMBANKMENT 212 - LINEAR GRADING 303 - ROAD RECONDITIONING

DRAWINGS NOT TO SCALE



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**ROAD DETAIL**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DWG SHEET NO.

**17**

DRAWN

R. MILLS

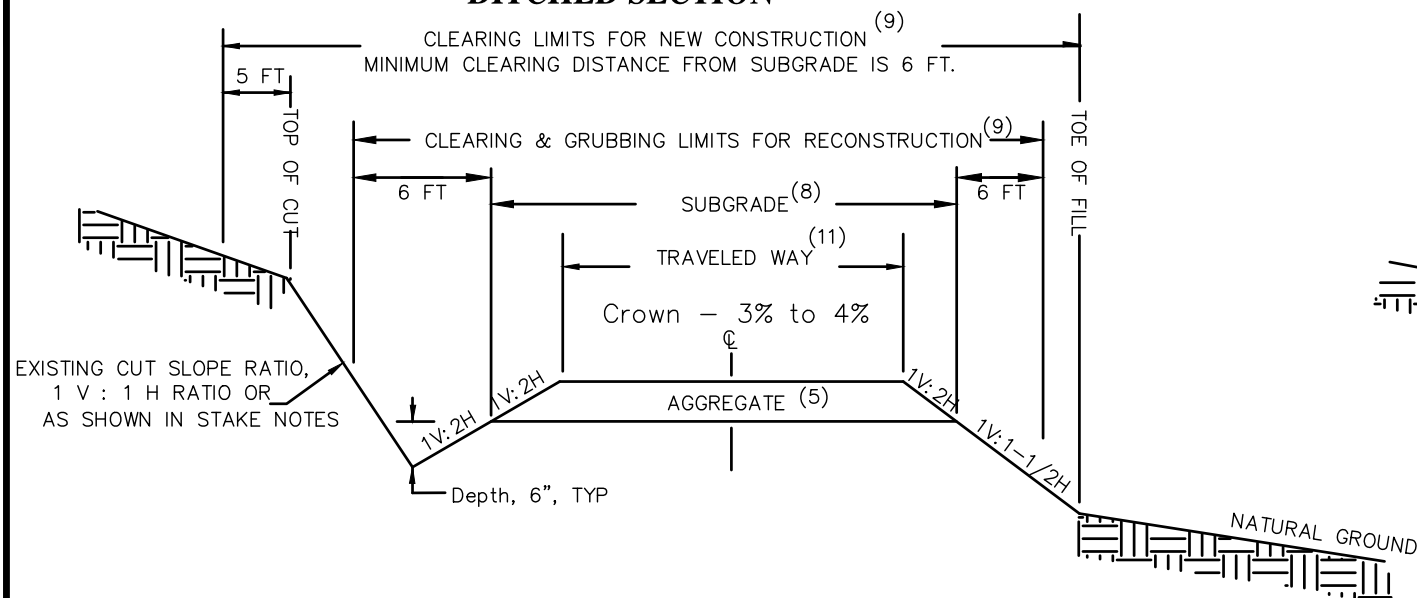
CHECKED

K. YOUNG

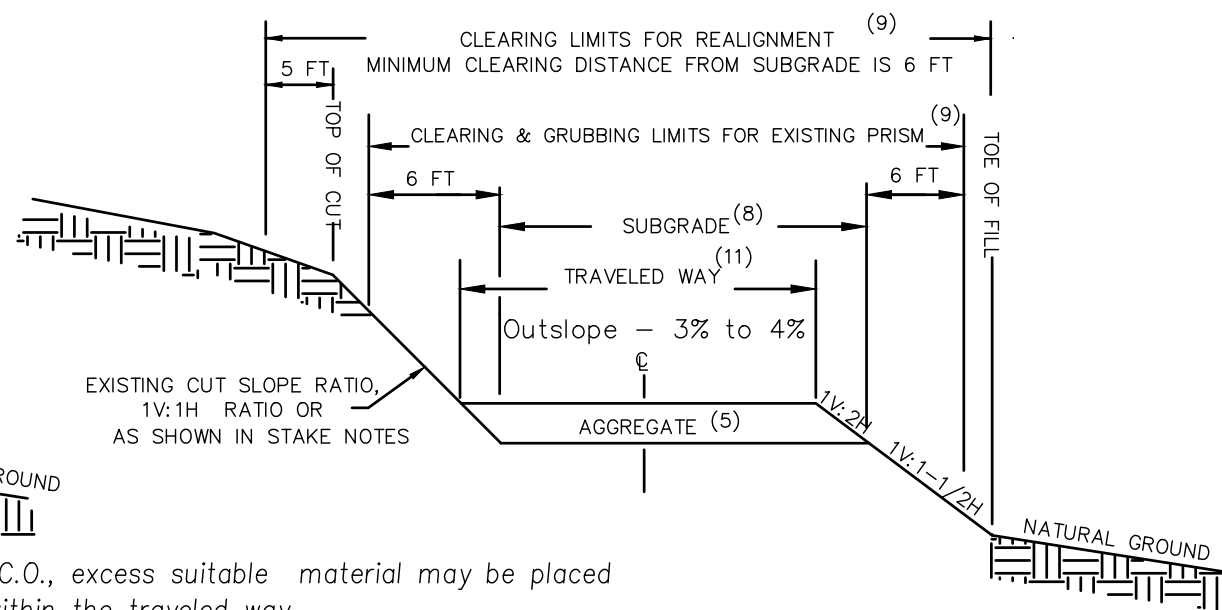
PROJECT NO.

SHEET 17 OF 20

## DITCHED SECTION



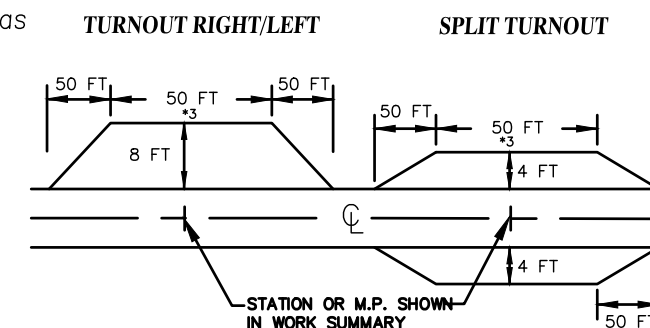
## NON-DITCHED SECTION



## NOTES

1. Stakes, paint and flagging shall meet the following: The nominal dimensions for slope stakes shall be 1. reference stakes and workpoint identification stakes shall be 1/2" X 2" X 3 FT long, unless otherwise approved by the C.O.. The top 2" of all stakes shall be painted fluorescent red. The flagging color shall be red.
2. Construction tolerance:  
Centerline Alignment: +3 Feet
3. Variations in road structure details will be shown on the work summary.
4. Curve widening and turnouts shall be surfaced to the same depth as the roadbed unless otherwise shown on the drawings.
5. Place aggregate in areas and to depth and width shown on work summary.
6. Ditch locations will be as existing, or as shown on the work summary, or staked by the C.O.
7. Excess excavation and oversize or unsuitable material shall be disposed of by sidecasting, except when within 150 FT of a flowing stream or other "sensitive areas" indicated on the work summary. Excess, oversize and unsuitable material generated in these "sensitive" areas shall be disposed of at the nearest designated material source or other area approved by the C.O. When

8. approved by the C.O., excess suitable material may be placed and compacted within the traveled way.
8. In unsurfaced areas the subgrade width is the same as the traveled way.
9. Reconstruction clearing limits shall be the same as new construction clearing limits when work activities involve realignment or require changing or modification of slope ratios and/or catch points. Tree limbs shall be trimmed by sawing as near flush with the trunk as practicable, to a height of 14 FT above the roadbed. Tree stumps <6" diameter that are greater than 1' outside the bottom of ditch or fill edge of subgrade are not required to be grubbed.
10. Deck timber that meets merchantability standards as agreed to with FS. Treat unmerchantable timber in the same method as large construction slash as shown on work summaries.
11. Construct traveled way to widths shown in work summaries. Minimum traveled way for all roads is 14'.



# STANDARD DETAILS FOR DRAIN DIP AND GRADE SAG CONSTRUCTION



United States Department of Agriculture  
Forest Service

R6  
PACIFIC NORTHWEST

PROJECT NAME

NFSR 5125 & 5138  
ROAD REALIGNMENT

WALLOWA-WHITMAN  
NATIONAL FOREST

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

DRAIN DIP DETAIL

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN  
R. MILLS

CHECKED  
K. YOUNG

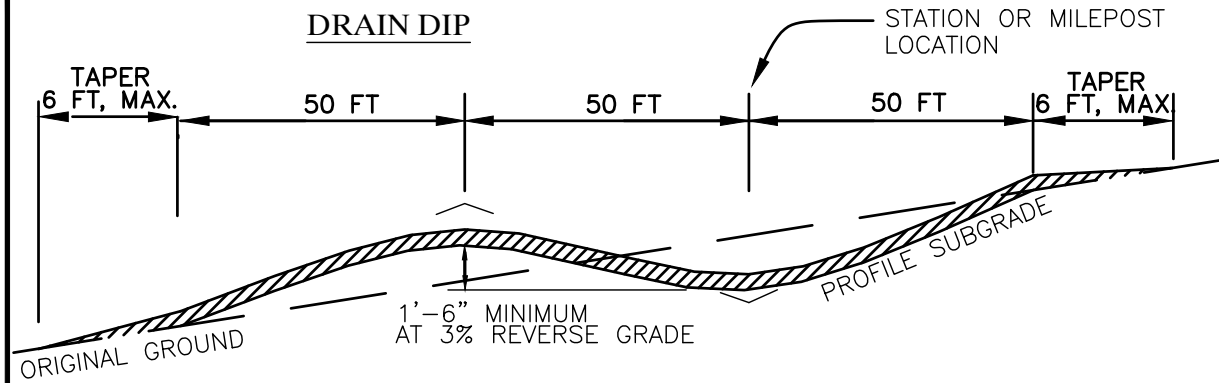
PROJECT NO.

DWG SHEET NO.

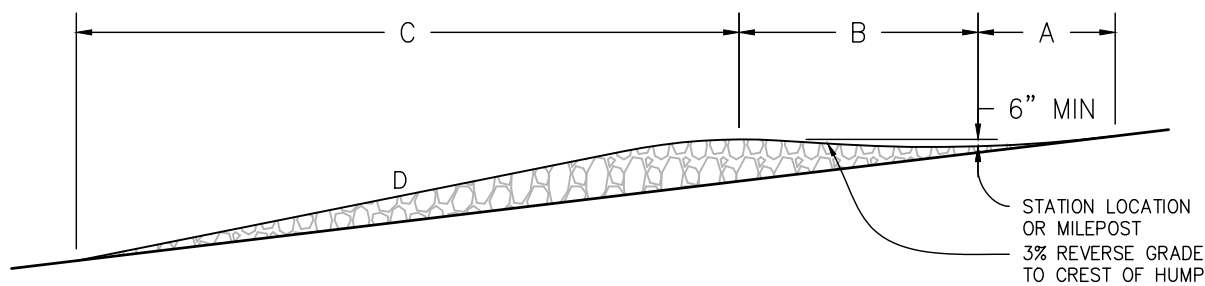
18

SHEET 18 OF 20

## PROFILES



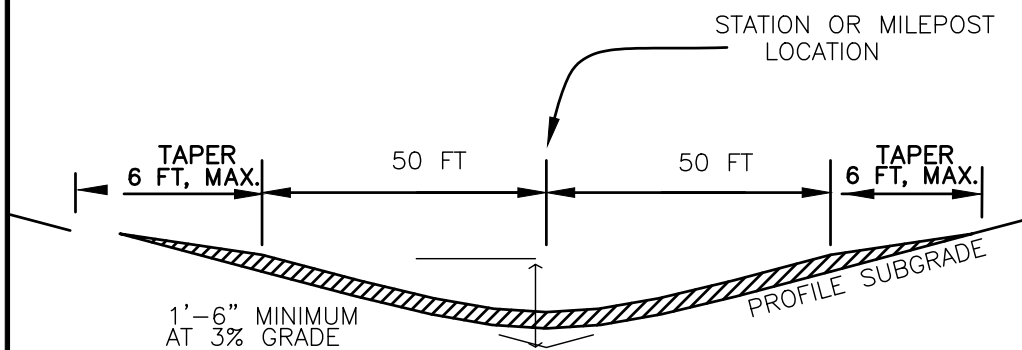
## DRAIN DIP, BORROW CONSTRUCTION



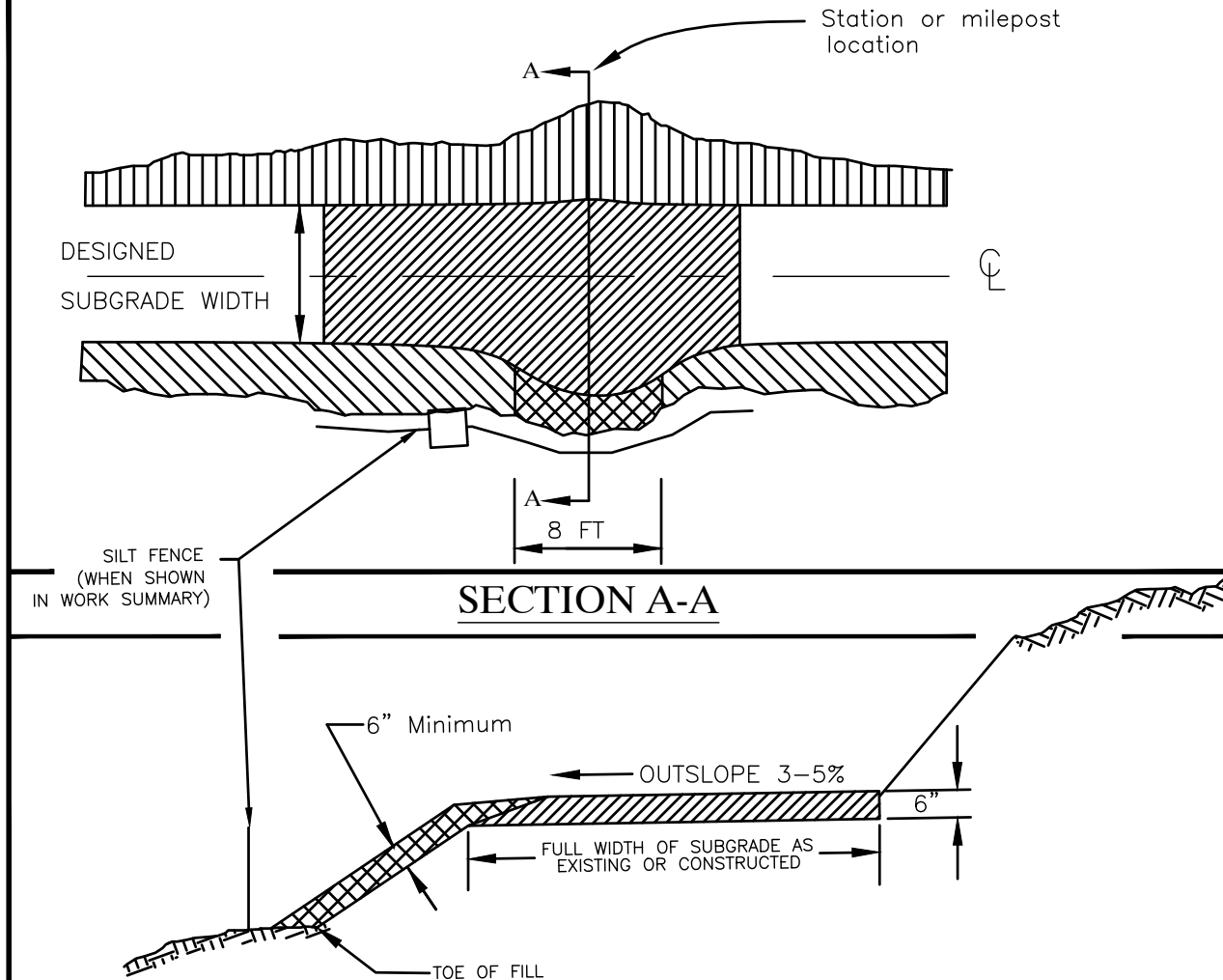
ROCK DRAIN DIP DIMENSION

% GRADE OF EXISTING GROUND	RUN IN (A)	RISE LENGTH (B)	RUN OUT (C)	RUN OUT SLOPE (D)
6%	24 FEET	23.5	84 FEET	10%
8%	24 FEET	25.0	100 FEET	12%

## GRADE SAG



## PLAN



## LEGEND

	CUT SLOPE		AGGREGATE
	FILL SLOPE		SLOPE PROTECTION (FSP)

## NOTES

1. THE DRAIN DIP OR GRADE SAG INVERT SHALL BE SMOOTH AND FREE DRAINING.
2. PLACE AGGREGATE AS SHOWN, WHEN SPECIFIED IN THE WORK SUMMARY. AGGREGATE DEPTH SHALL BE 6", UNLESS OTHERWISE SHOWN IN THE WORK SUMMARY.
3. PLACE FILL SLOPE PROTECTION (FSP) AS SHOWN, WHEN SPECIFIED IN THE WORK SUMMARY.
4. DRAIN DIPS SHALL BE PLACED AS SHOWN IN THE PLANS.

# DRAINAGE CONSTRUCTION DETAILS

## Specification 602



United States Department of Agriculture  
Forest Service

**R6**  
PACIFIC NORTHWEST

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

LA GRANDE RANGER  
DISTRICT

DRAWING TITLE

**DRAINAGE DETAILS**

DATE

10/13/2023

ARCHIVE NO.

FS090523\_R102013\_L1-002.dwg

DESIGNER

R. MILLS

DRAWN

R. MILLS

CHECKED

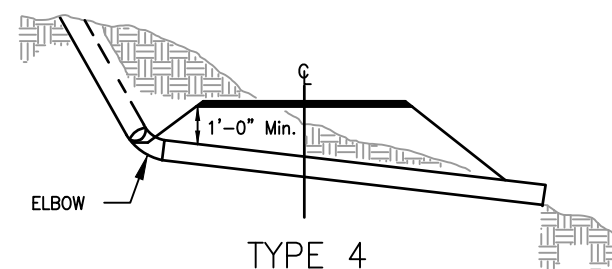
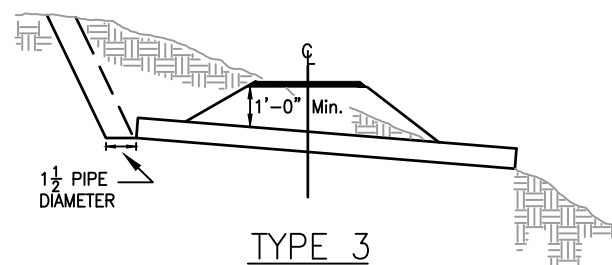
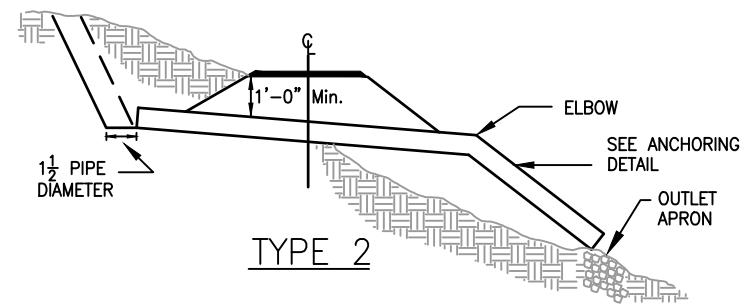
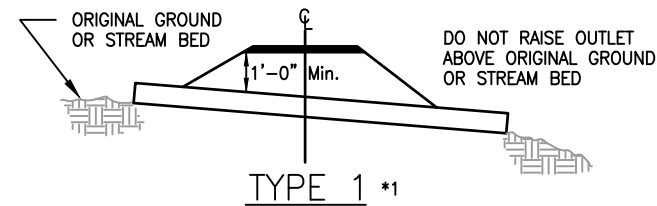
K. YOUNG

PROJECT NO.

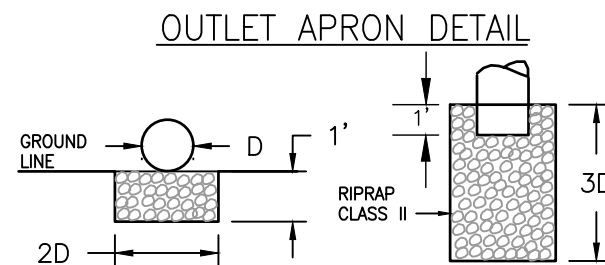
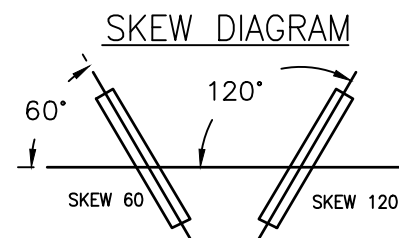
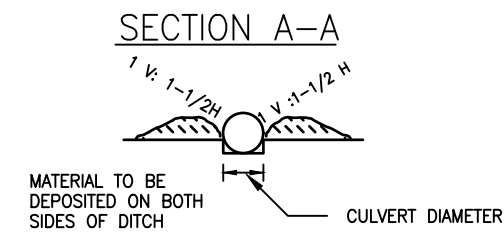
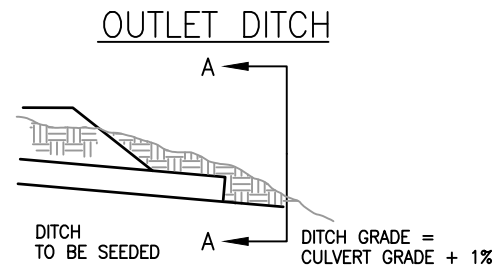
DWG SHEET NO.

**19**

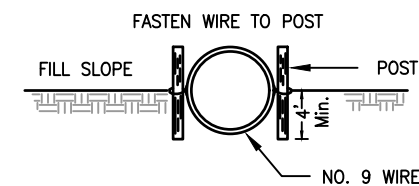
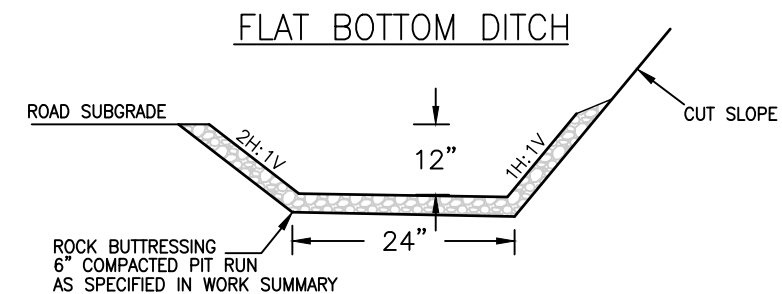
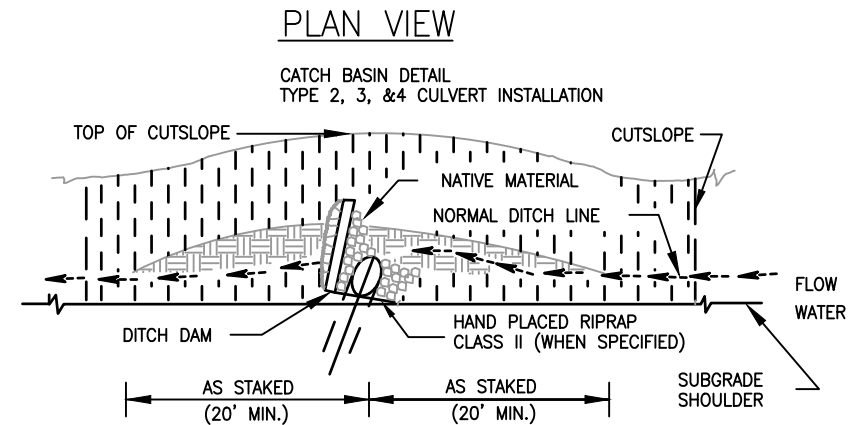
SHEET 19 OF 20



NOTE: FULL BENCH GRADIENT EQUAL TO THE GREATER OF 1/3 THE APPROACHING DITCH GRADE OR -4%.



APRON SURFACE SHALL BE LEFT WITH PROTRUDING RIPRAP FOR VELOCITY BREAK.



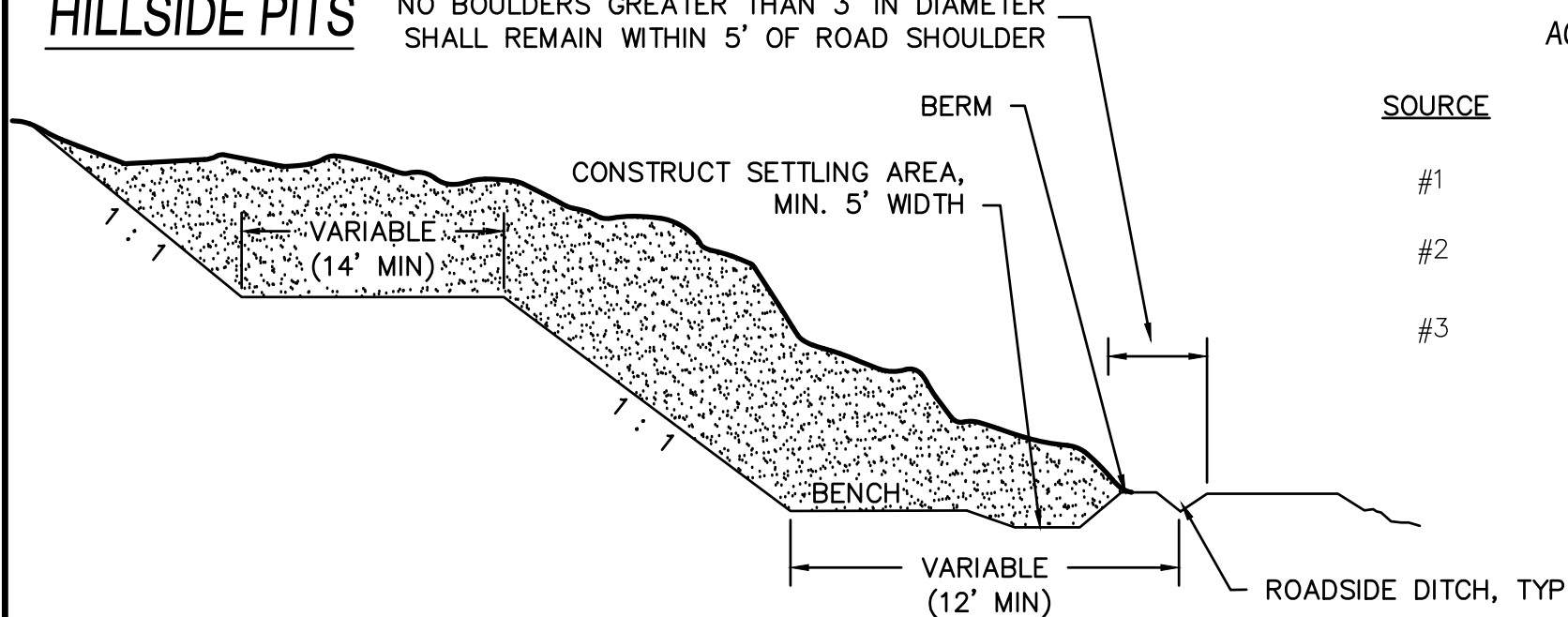
NOTE: 36" DIAMETER AND LARGER DOWNPIPE SHALL BE HALF BURIED. ANCHOR SETS SHALL CONSIST OF TWO 6' STEEL FENCE POSTS (1#/FT) AND NO. 9 GALVANIZED WIRE. THE 3 STRANDS OF WIRE SHALL BE TWISTED TOGETHER AND ENCOMPASS THE ENTIRE CIRCUMFERENCE OF THE PIPE.

10/10/23 12:36 RICHARDMILLS C:\USERS\RICHARDMILLS\DESKTOP\PROJECTS\2022 PROJECTS\5125 RELOCATION\DRAWINGS\DRNG CONST-DETAILS.DWG

# PIT DEVELOPMENT PLAN

## HILLSIDE PITS

NO BOULDERS GREATER THAN 3' IN DIAMETER SHALL REMAIN WITHIN 5' OF ROAD SHOULDER



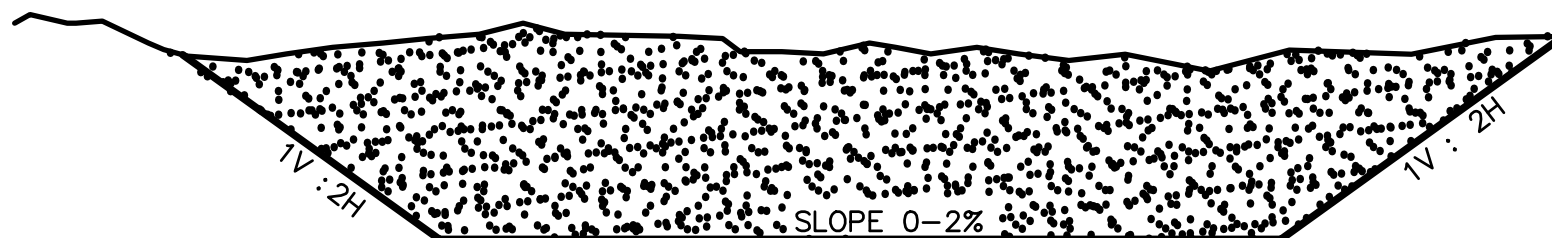
## AGGREGATE SOURCE/ USE LOCATIONS

SOURCE	LOCATION	PAY ITEM
#1	NFSR 5130021; LIMBER JIM PIT 30106	
#2	NFSR 5125 ROADSIDE	30106
#3	NFSR 4300301	30103 & 30103.A

### GENERAL NOTES:

- EXACT PIT LOCATION, LIMITS, ETC. WILL BE STAKED BY THE FOREST SERVICE.
- CLEARING, GRUBBING, AND SLASH REMOVAL METHODS SHALL BE IN ACCORDANCE WITH SECTION 201 & 314 AND SHALL BE INCIDENTAL TO ITEM 314. SLASH DISPOSAL METHODS SHALL BE IN ACCORDANCE WITH FSSS 203.05, METHOD (f).
- PIT SLOPES SHALL BE AS SHOWN, OR AS APPROVED BY THE CONTRACTING OFFICER.
- UNSUITABLE AND EXCESS EXCAVATION DISPOSAL AREAS WILL BE STAKED ON GROUND BY CO.
- WHERE PAY ITEMS ARE LISTED ON MULTIPLE PITS, CONTRACTOR HAS DISCRETION ON WHICH PIT TO USE.

## OTHER AREAS



United States Department of Agriculture  
Forest Service

**R6**  
**PACIFIC NORTHWEST**

PROJECT NAME

**NFSR 5125 & 5138  
ROAD REALIGNMENT**

**WALLOWA-WHITMAN  
NATIONAL FOREST**

**LA GRANDE RANGER  
DISTRICT**

DRAWING TITLE

**PIT DEVELOPMENT  
DETAIL**

DATE

**10/13/2023**

ARCHIVE NO.

**FS090523\_R102013\_L1-002.dwg**

DESIGNER

**R. MILLS**

DRAWN

**R. MILLS**

CHECKED

**K. YOUNG**

PROJECT NO.

DWG SHEET NO.

**20**

SHEET 20 OF 20