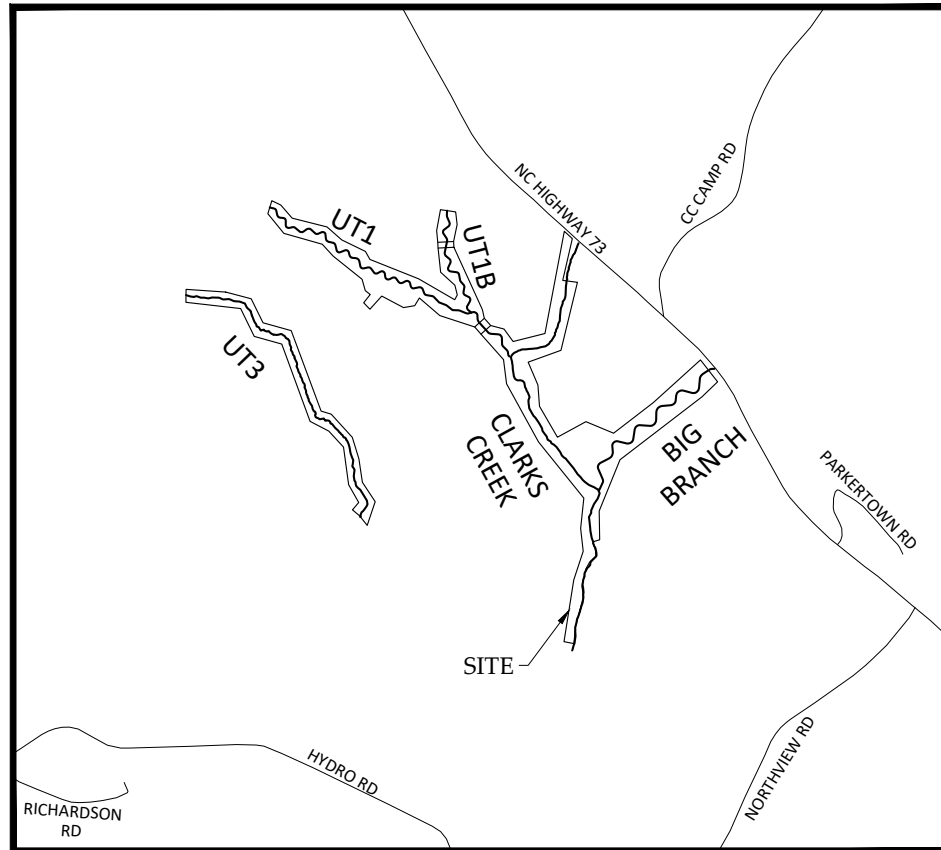
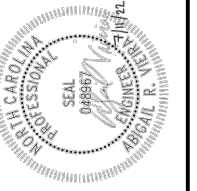


Cross Creek Ranch Site Record Drawings

Montgomery County, North Carolina

for
NC DEQ

Division of Mitigation Services



Vicinity Map
Not to Scale



As-Built and Record Drawings
August 25, 2022

Project Information

Stream	Latitude	Longitude
Clarks Creek	N35° 14' 08.6"	W80° 01' 20.7"
Big Branch	N35° 13' 55.9"	W80° 01' 04.4"
UT1	N35° 14' 10.8"	W80° 01' 59.7"
UT1B	N35° 14' 12.1"	W80° 01' 37.4"
UT3	N35° 14' 03.1"	W80° 02' 09.5"

Sheet Index

Title Sheet	0.1
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Project Overview	0.3-0.6
Stream Plan and Profile Sheets	
Clarks Creek	1.1.1-1.1.5
Big Branch	1.2.1-1.2.6
UT1	1.3.1-1.3.9
UT1B	1.4.1-1.4.4
UT3	1.5.1-1.5.18
Wetlands	2.1-2.5
Planting Tables	3.1
Planting	3.2-3.5
Fencing	4.1-4.4

Project Directory

Engineering:
Wildlands Engineering, Inc
License No. F-0831
312 W. Millbrook Rd, Suite 225
Raleigh, NC 27609
Jefferson Keaton, PE, Project Manager
Abigail Vieira, PE, Project Engineer
919-851-9986

Surveying:
Kee Mapping and Surveying, PA
88 Central Avenue
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Drew V. Duinkerken, PLS
828-645-8275

Owner:
DEQ NCDMS
1652 Mail Service Center
Raleigh, NC 27699-1652
Attention: Kelly Phillips
919-723-7565

NCDEQ Contract No. 7879-01
DMS ID No. 100138
USACE Action ID No. 2020-00051
Yadkin River Basin
HUC 03040104
DWR No. 20200016

Cross Creek Ranch Site
Montgomery County, North Carolina

Title Sheet

Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWW

0.1

Pre-Construction Features

	PRE-CONSTRUCTION STORM PIPE
	PRE-CONSTRUCTION PROPERTY LINE
	OVERHEAD UTILITY EASEMENT
	OVERHEAD UTILITY LINE
	UNDERGROUND UTILITY EASEMENT
	UNDERGROUND UTILITY LINE
	RIGHT OF WAY
	PRE-CONSTRUCTION BEDROCK
	PRE-CONSTRUCTION FARM ROAD
	PRE-CONSTRUCTION ASPHALT ROAD
	PRE-CONSTRUCTION WETLAND
	PRE-CONSTRUCTION DEBRIS AREA
	PRE-CONSTRUCTION BUILDING

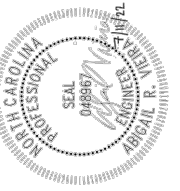
Design Features

	DESIGN NOT FOR CREDIT
	DESIGN PRESERVATION
	DESIGN ENHANCEMENT II
	DESIGN RESTORATION
	DESIGN BANKFULL
	DESIGN MAJOR CONTOUR
	DESIGN MINOR CONTOUR
	DESIGN CONSERVATION EASEMENT
	DESIGN CONSERVATION EASEMENT INTERNAL CROSSING
	DESIGN FENCE
	DESIGN LOG VANE
	DESIGN LOG SILL
	DESIGN BOULDER SILL
	DESIGN LOG J-HOOK
	DESIGN BOULDER STEP POOL
	DESIGN BOULDER CASCADE
	DESIGN CULVERT
	DESIGN LOG STEP POOL
	DESIGN TYPICAL UTILITY CONDUIT
	DESIGN RIFFLE
	DESIGN STREAM BANK GRADING
	DESIGN WETLAND RE-ESTABLISHMENT
	DESIGN WETLAND REHABILITATION
	DESIGN ROCK OUTLET
	DESIGN WETLAND DITCH PLUG
	DESIGN BRUSH TOE
	DESIGN BOULDER TOE

As-Built Features

	AS-BUILT THALWAG
	AS-BUILT BANKFULL
	AS-BUILT MAJOR CONTOUR
	AS-BUILT MINOR CONTOUR
	AS-BUILT FENCE
	LIMITS OF DISTURBANCE
	CROSS-SECTION
	PP-#
	SG
	GWG-#
	VEG VP-# VEG
	AS-BUILT LOG VANE
	AS-BUILT LOG SILL
	AS-BUILT BOULDER SILL
	AS-BUILT LOG J-HOOK
	AS-BUILT BOULDER STEP POOL
	AS-BUILT BOULDER CASCADE
	AS-BUILT CULVERT
	AS-BUILT LOG STEP POOL
	AS-BUILT TYPICAL UTILITY CONDUIT
	AS-BUILT RIFFLE
	AS-BUILT WETLAND RE-ESTABLISHMENT
	AS-BUILT WETLAND REHABILITATION
	AS-BUILT ROCK OUTLET
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NOTES:
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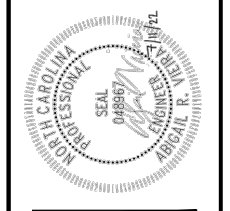
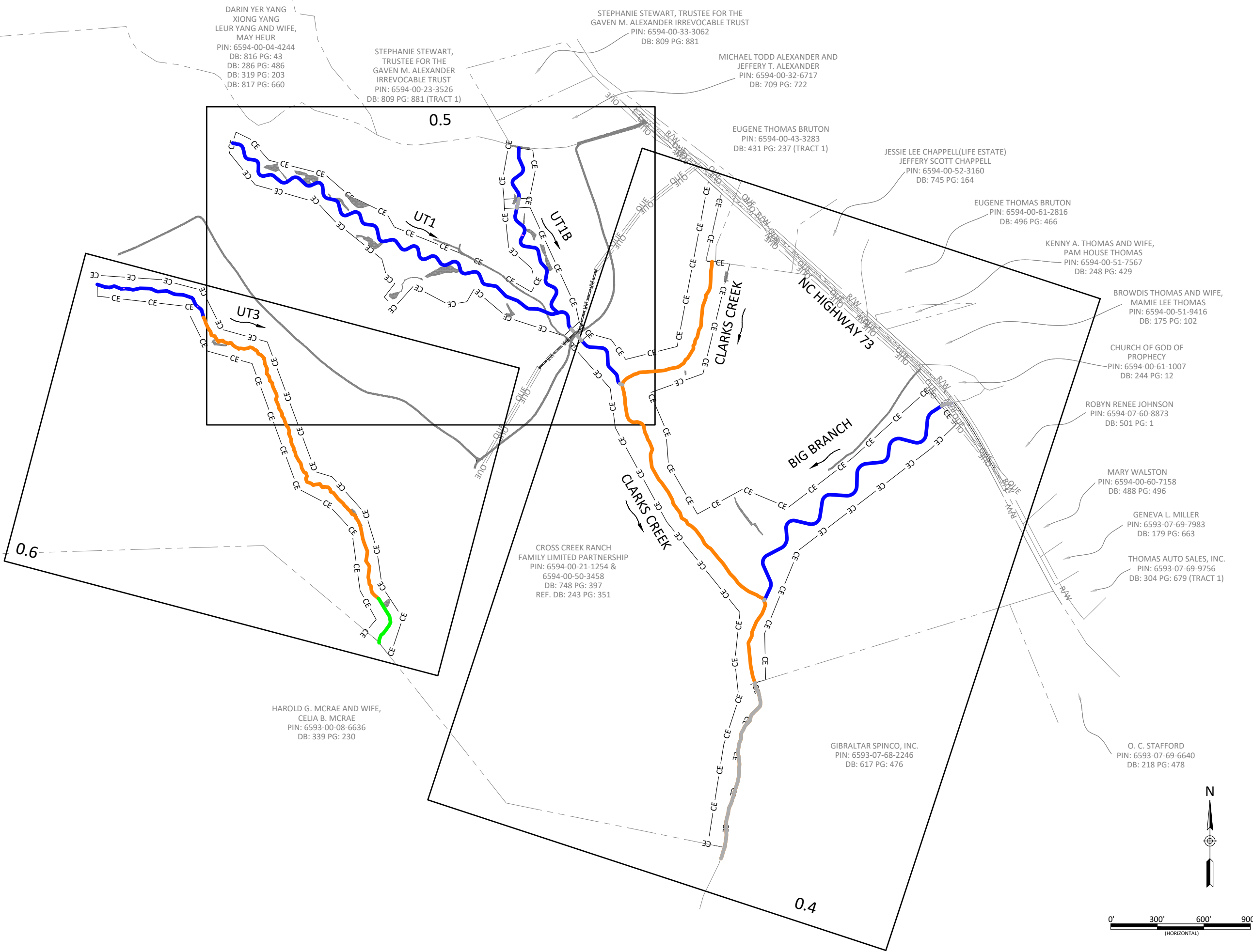


Cross Creek Ranch Site
Montgomery County, North Carolina

General Notes and Symbols

Revisions:

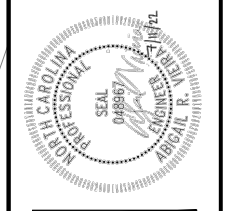
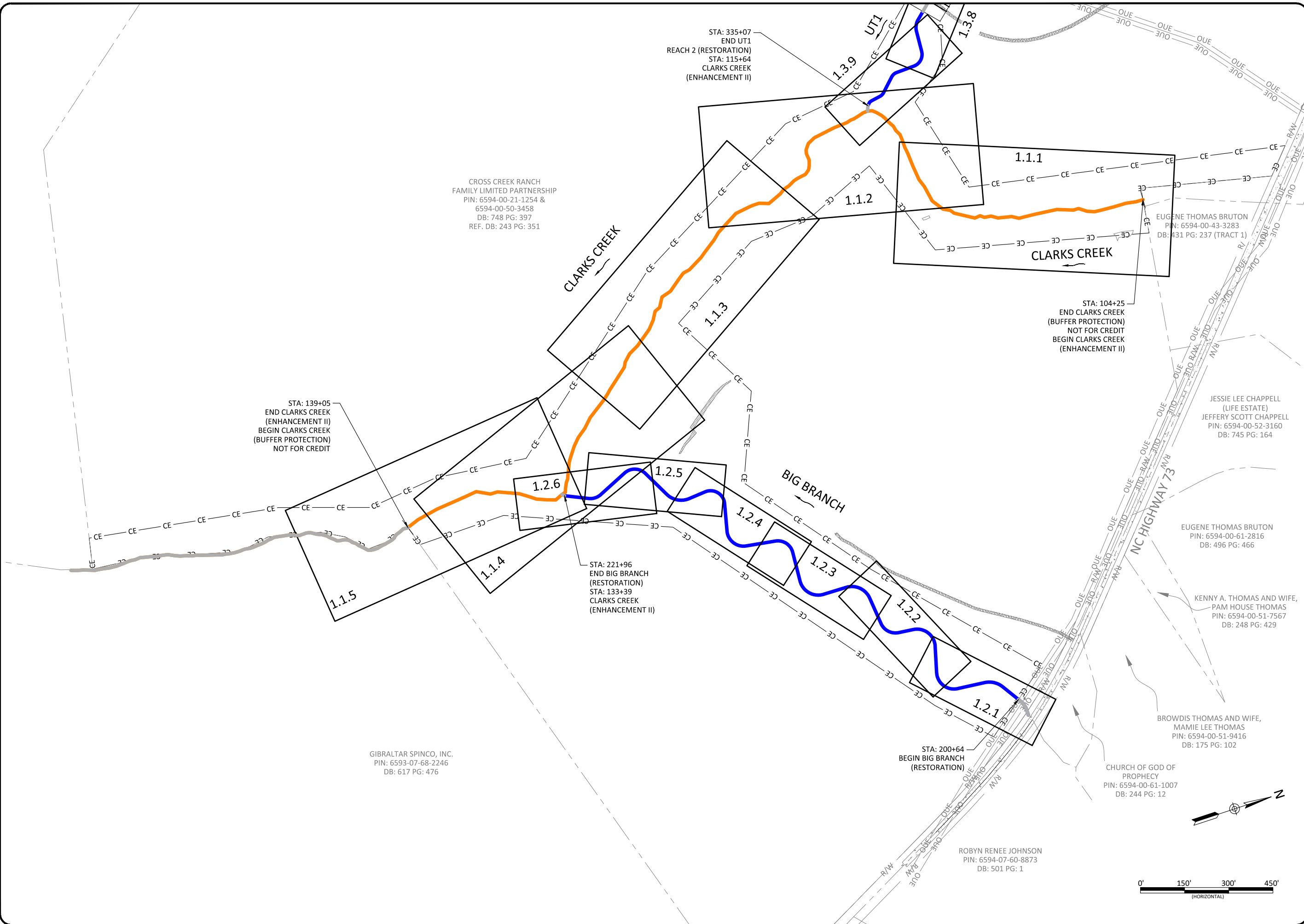
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 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV



Cross Creek Ranch Site
Montgomery County, North Carolina
Project Overview

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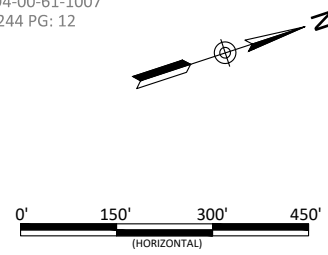
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Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV



Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek and Big Branch
Project Overview

Revisions:

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Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW



8/25/2022

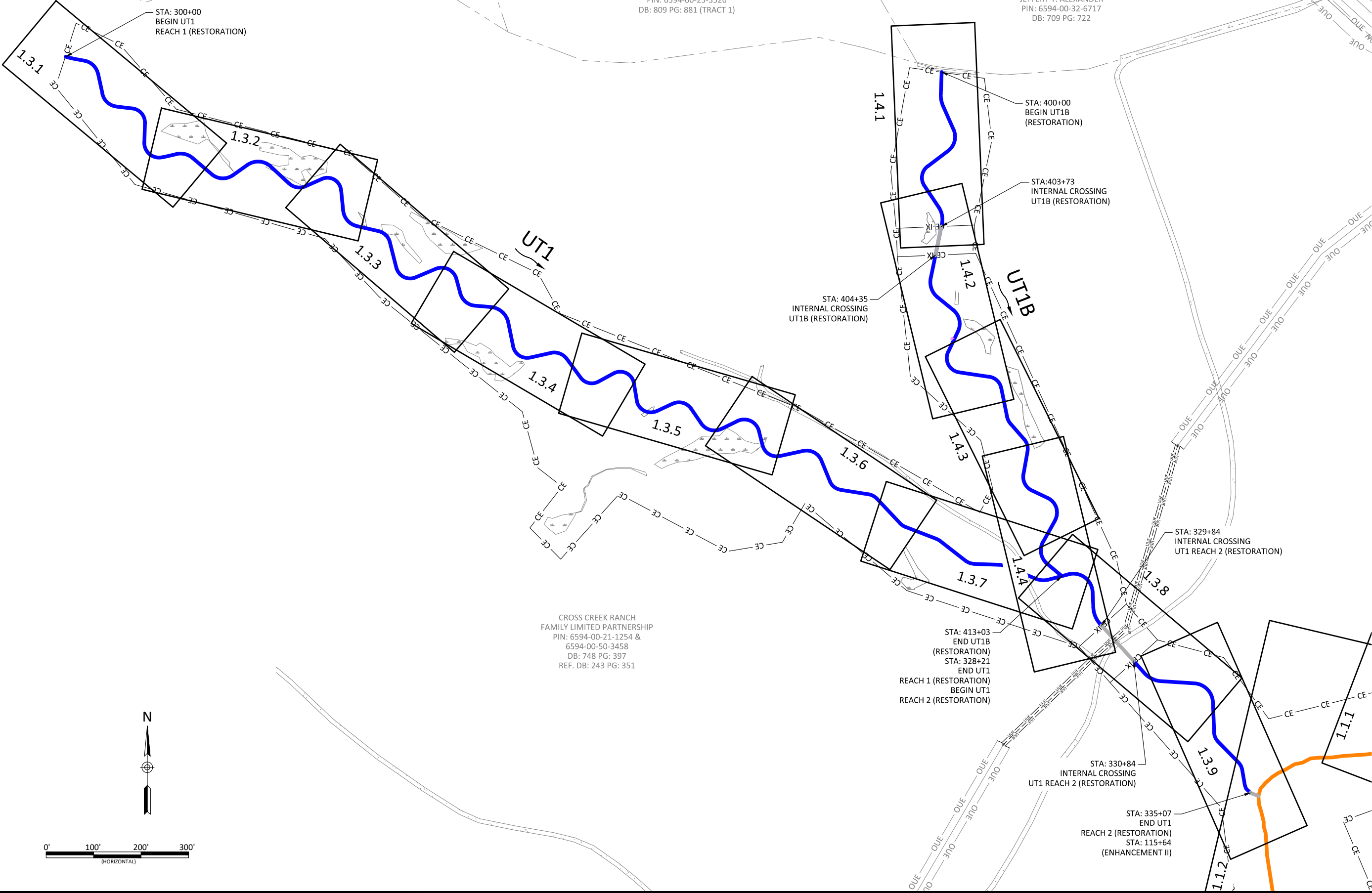
DARIN YER YANG
XIONG YANG
LEUR YANG AND WIFE,
MAY HEUR
PIN: 6594-00-04-4244
DB: 816 PG: 43
DB: 286 PG: 486
DB: 319 PG: 203
DB: 817 PG: 660

STEPHANIE STEWART, TRUSTEE FOR THE
GAVEN M. ALEXANDER IRREVOCABLE TRUST
PIN: 6594-00-23-3526
DB: 809 PG: 881 (TRACT 1)

STEPHANIE STEWART,
TRUSTEE FOR THE
GAVEN M. ALEXANDER
IRREVOCABLE TRUST
PIN: 6594-00-33-3062
DB: 809 PG: 881

MICHAEL TODD ALEXANDER AND
JEFFERY T. ALEXANDER
PIN: 6594-00-32-6717
DB: 709 PG: 722

CROSS CREEK RANCH
FAMILY LIMITED PARTNERSHIP
PIN: 6594-00-21-1254 &
6594-00-50-3458
DB: 748 PG: 397
REF. DB: 243 PG: 351



STA: 300+00
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REACH 1 (RESTORATION)

STA: 400+00
BEGIN UT1B
(RESTORATION)

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UT1B (RESTORATION)

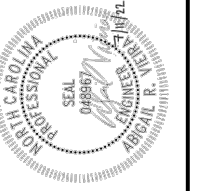
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UT1B (RESTORATION)

STA: 329+84
INTERNAL CROSSING
UT1 REACH 2 (RESTORATION)

STA: 413+03
END UT1B
(RESTORATION)
STA: 328+21
END UT1
REACH 1 (RESTORATION)
BEGIN UT1
REACH 2 (RESTORATION)

STA: 330+84
INTERNAL CROSSING
UT1 REACH 2 (RESTORATION)

STA: 335+07
END UT1
REACH 2 (RESTORATION)
STA: 115+64
(ENHANCEMENT II)



Cross Creek Ranch Site
Montgomery County, North Carolina
UT1 and UT1B
Project Overview

Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

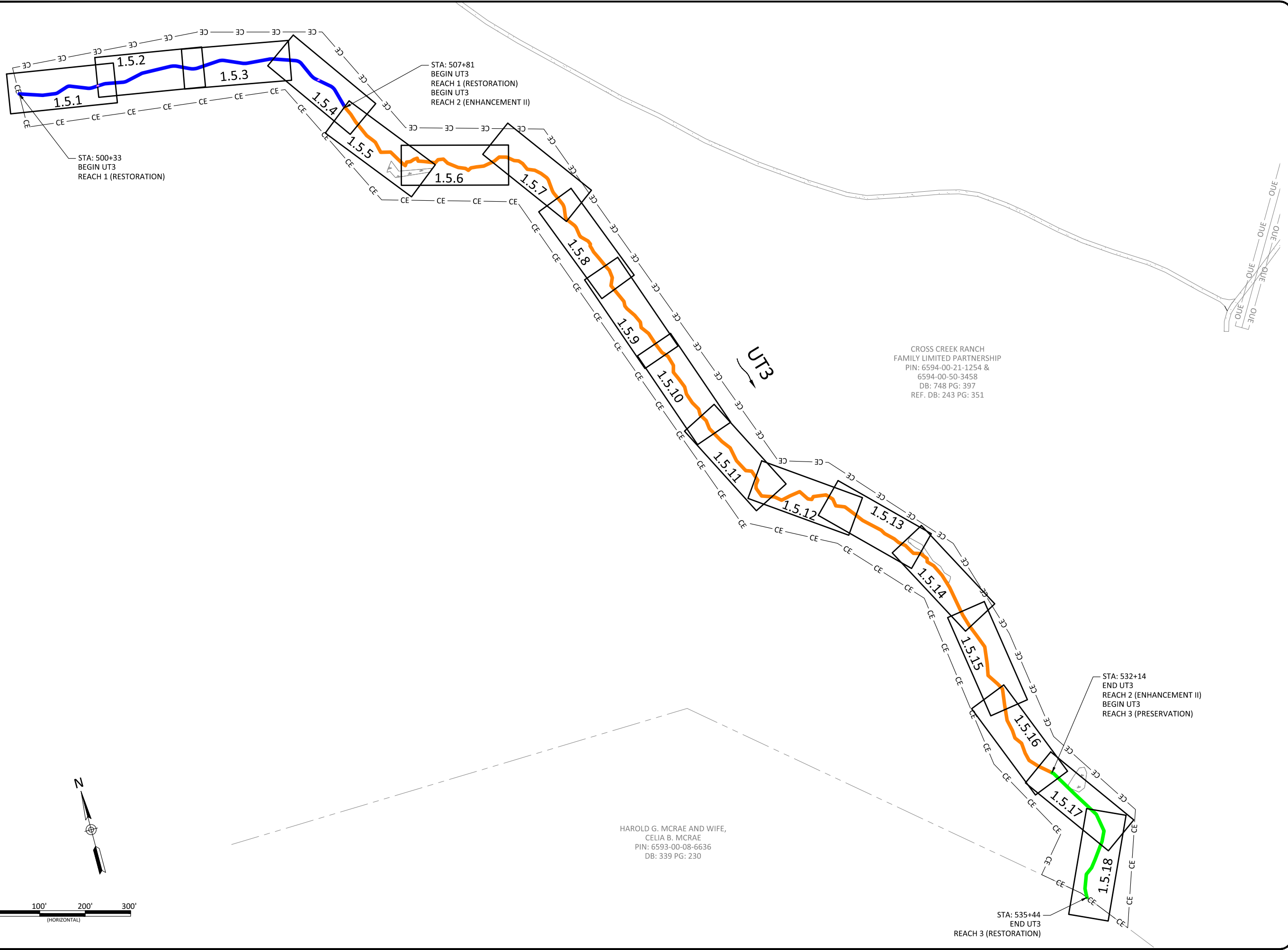
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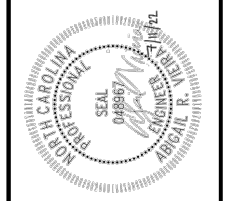
August 23, 2022

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CROSS CREEK RANCH
FAMILY LIMITED PARTNERSHIP
PIN: 6594-00-21-1254 &
6594-00-50-3458
DB: 748 PG: 397
REF. DB: 243 PG: 351

HAROLD G. MCRAE AND WIFE,
CELIA B. MCRAE
PIN: 6593-00-08-6636
DB: 339 PG: 230



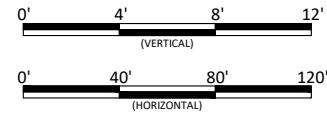
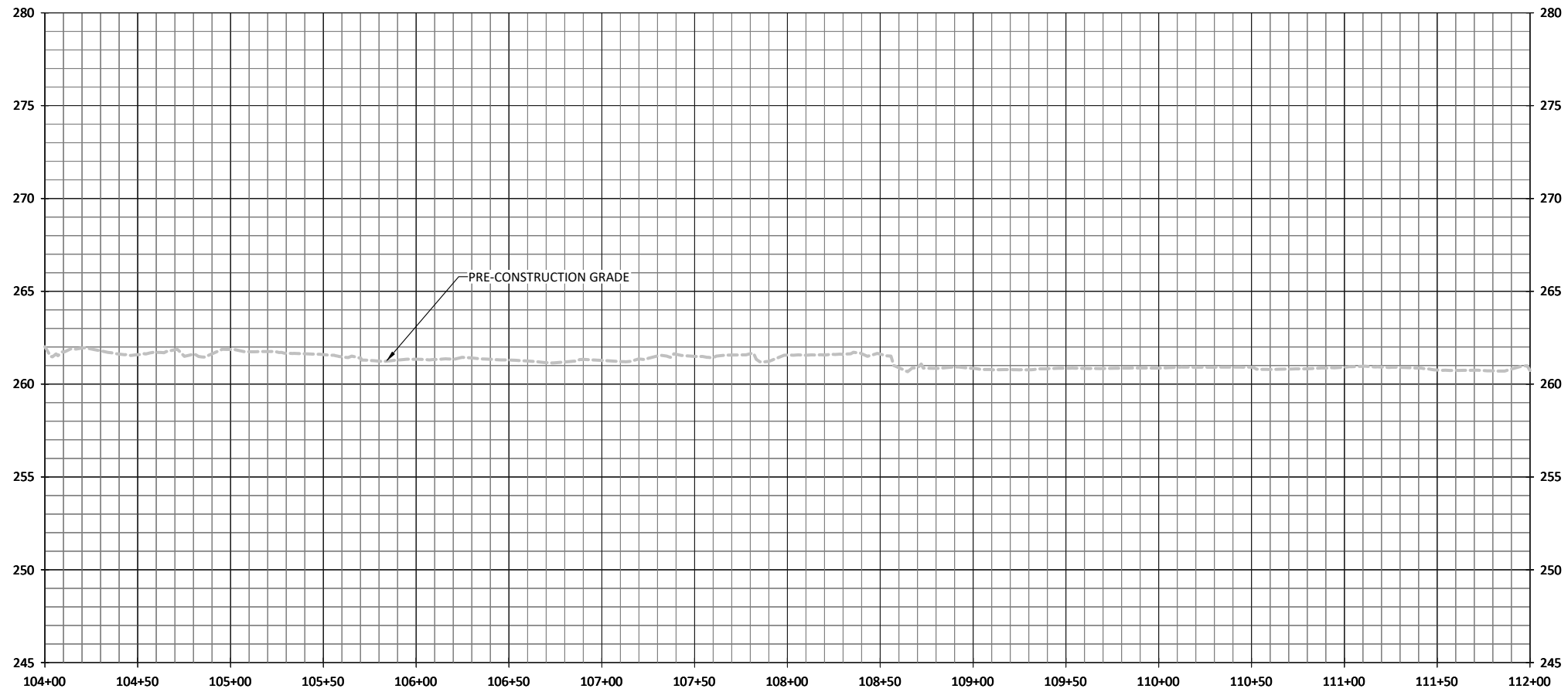
Cross Creek Ranch Site
Montgomery County, North Carolina
UT3
Project Overview

Revisions:

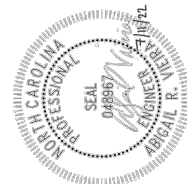
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Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

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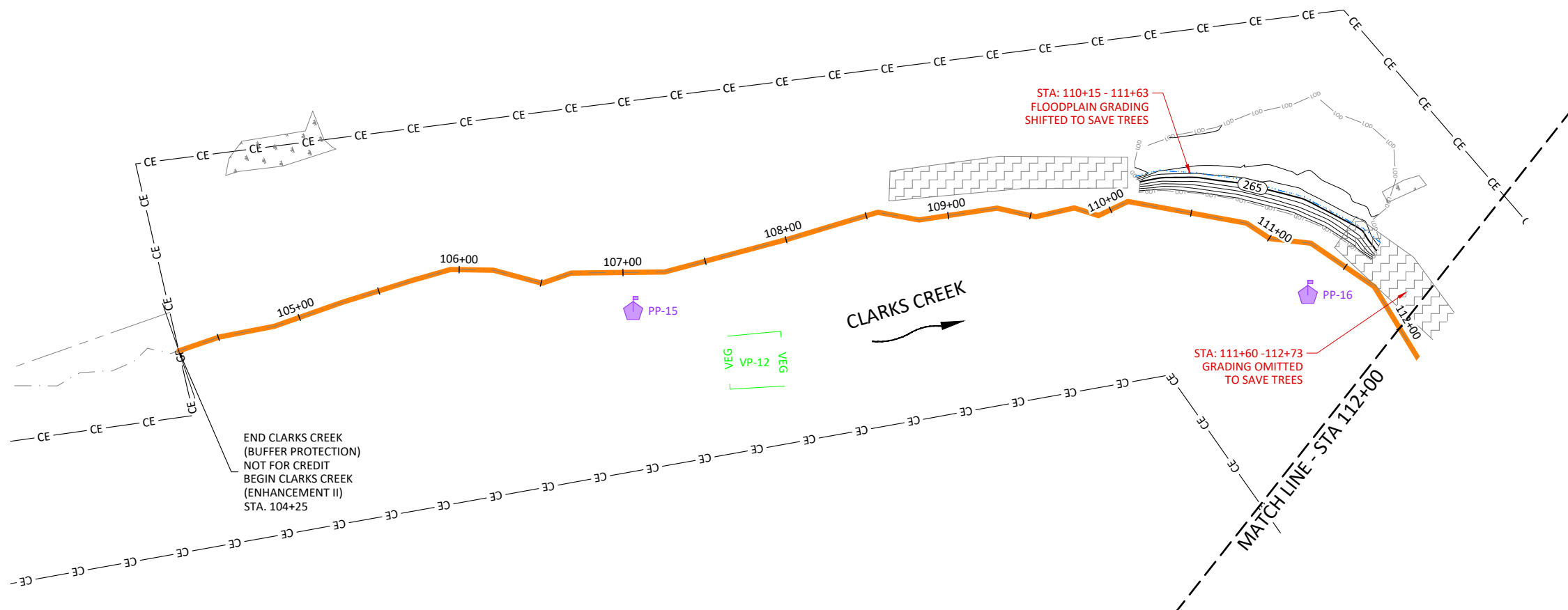


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Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek
Stream Plan and Profile

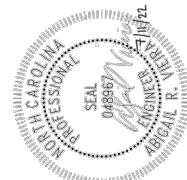
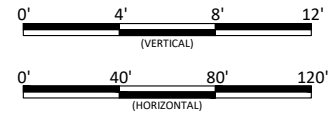
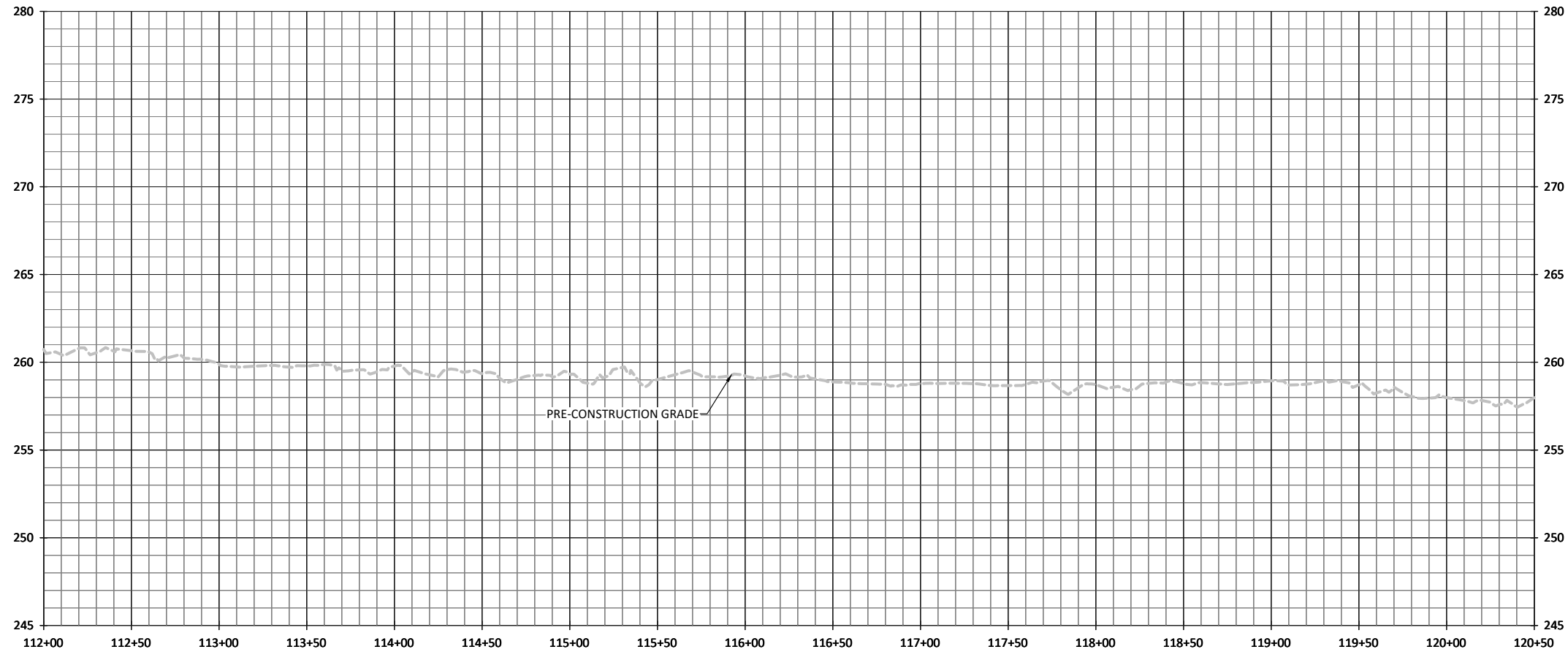
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Project Engineer: ARV
Drawn By: FHM
Checked By: TWY

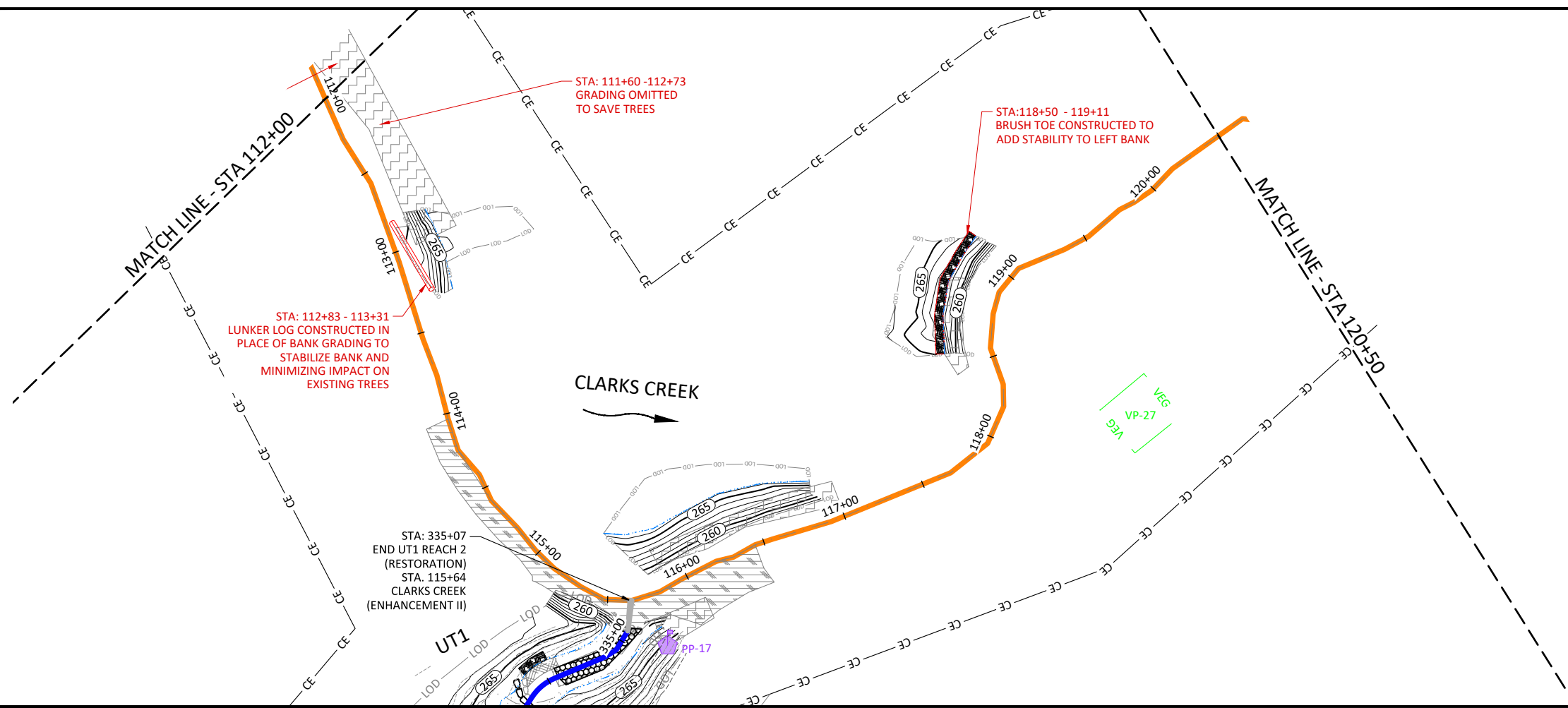
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Cross Creek Ranch Site
Montgomery County, North Carolina

Clarks Creek
Stream Plan and Profile

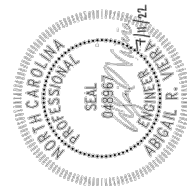
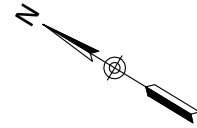
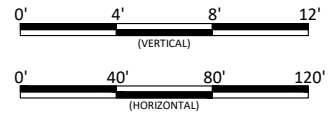
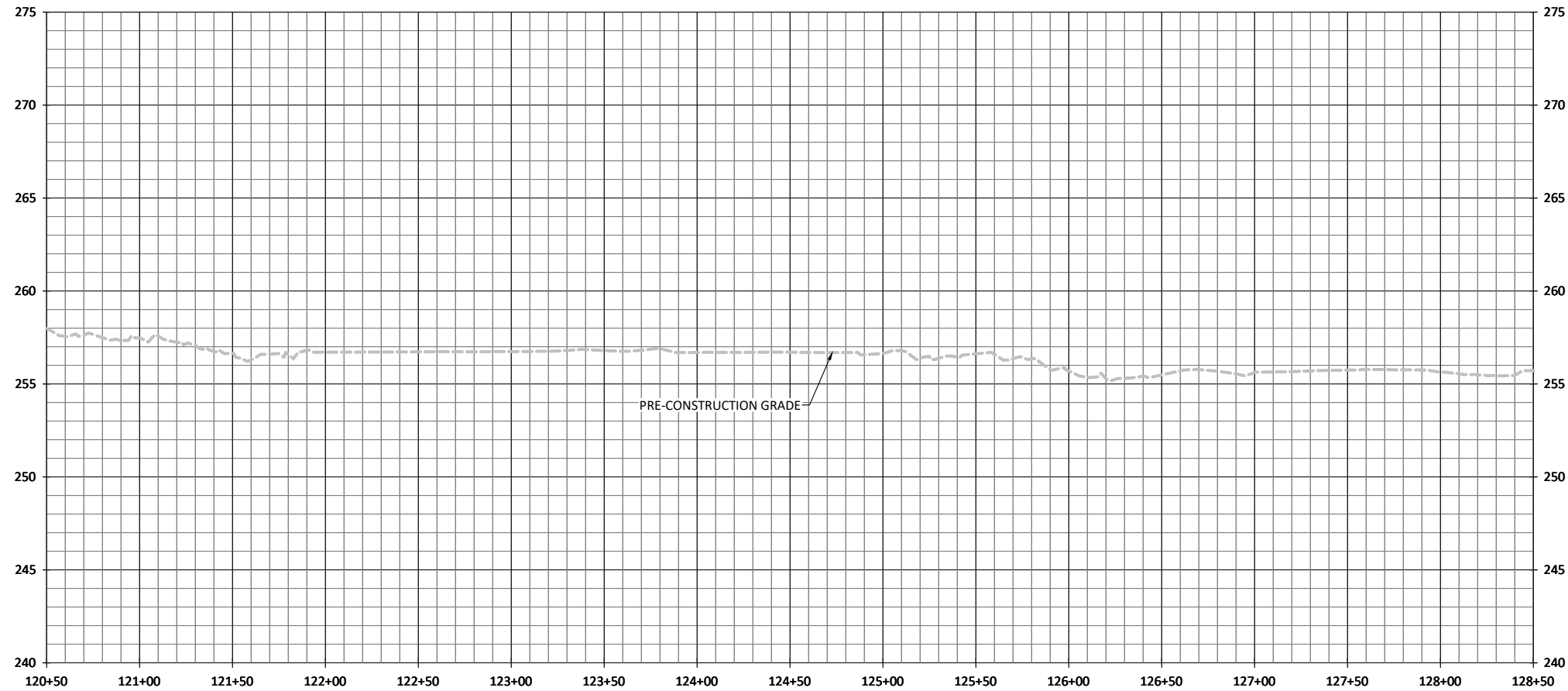
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1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.
 2. AS-BUILT INFORMATION FOR UT1 IS ADDRESSED ON SHEETS 1.3.1 THROUGH 1.3.9



Revisions:

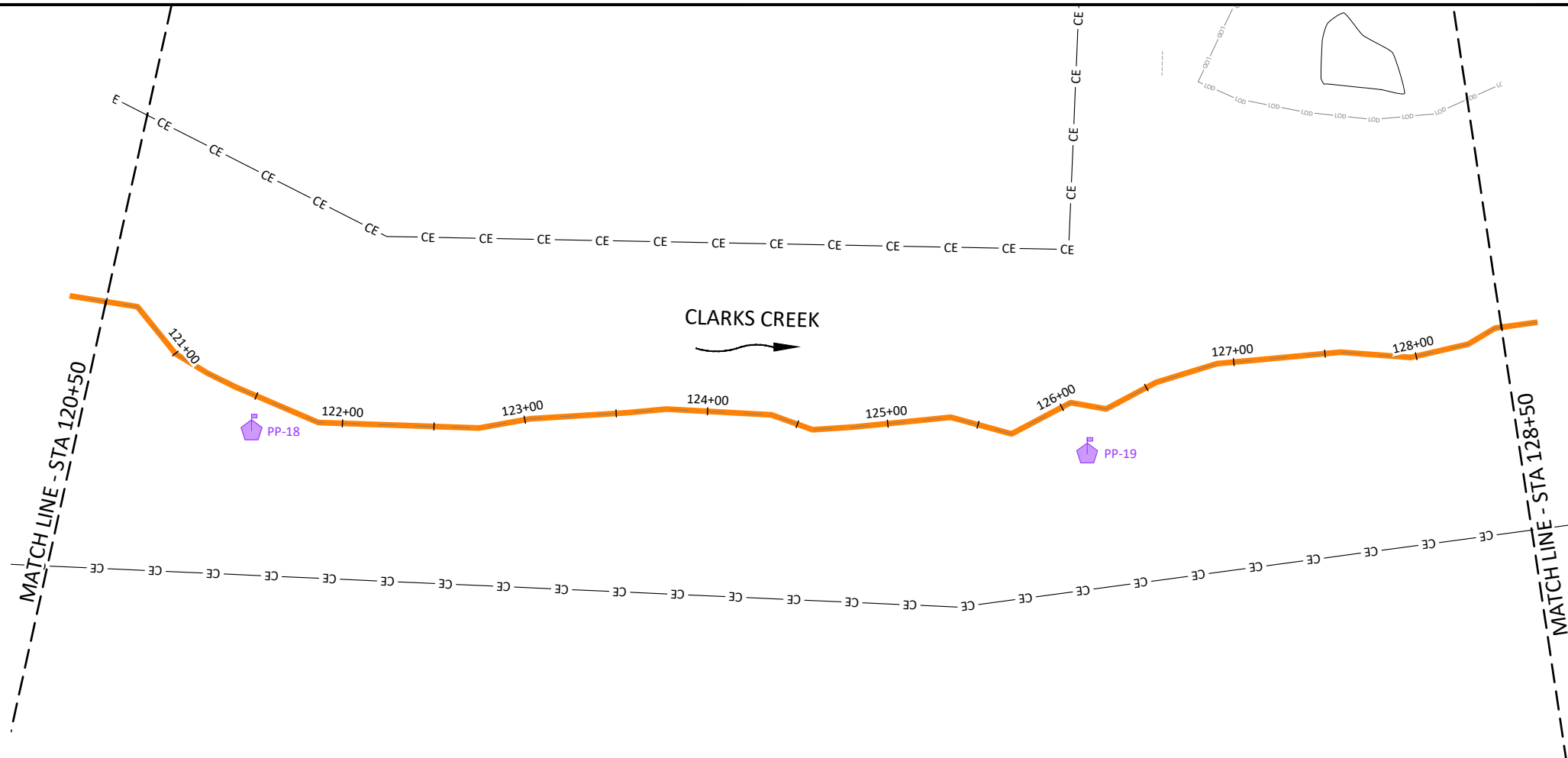
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Job Number:	005-02186
Project Engineer:	ARY
Drawn By:	FHM
Checked By:	TWV

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Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek
Stream Plan and Profile

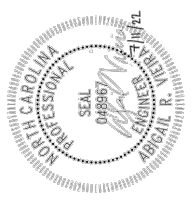
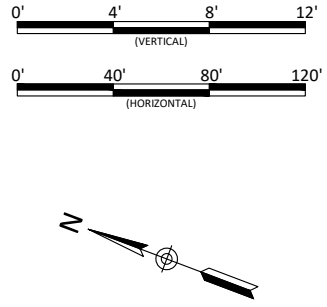
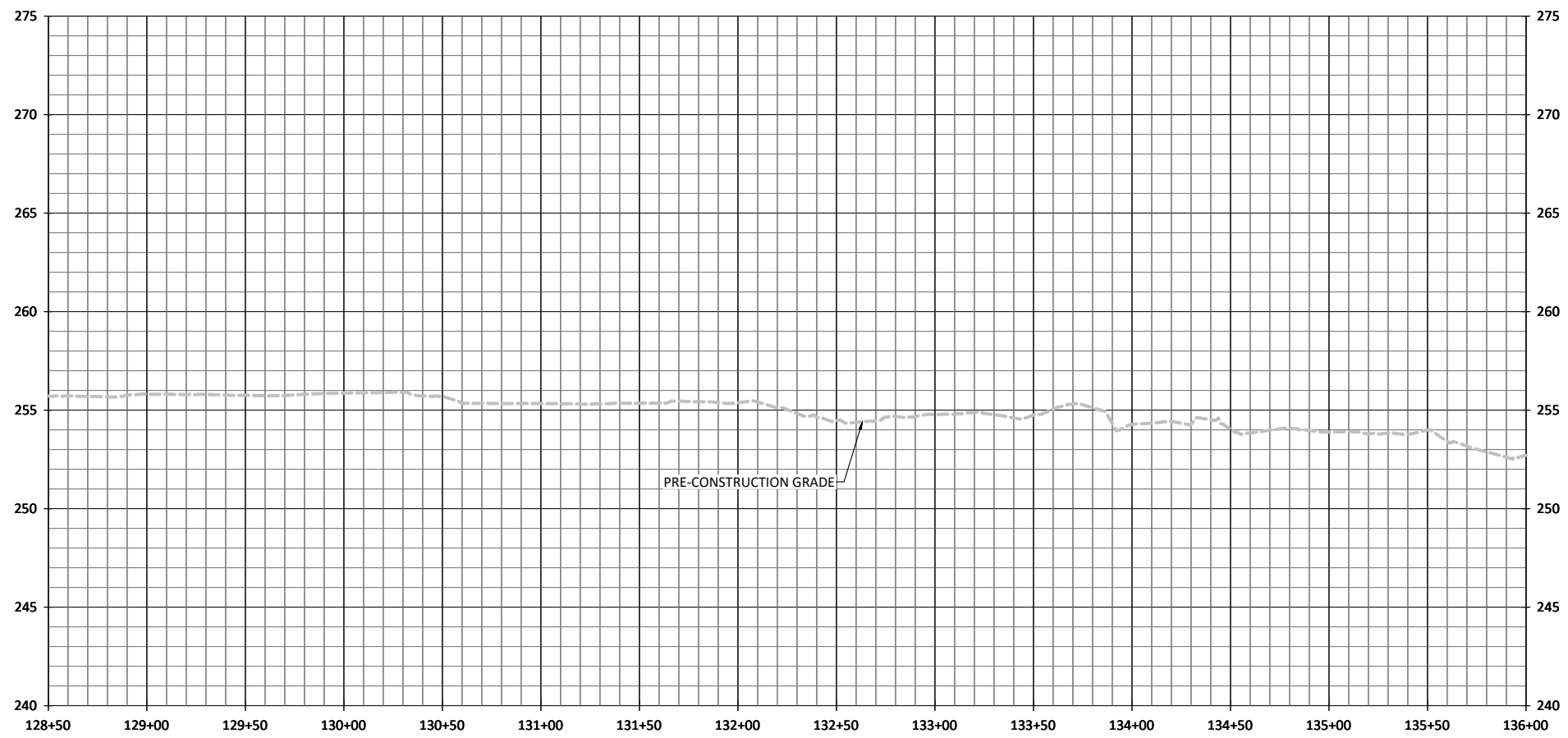
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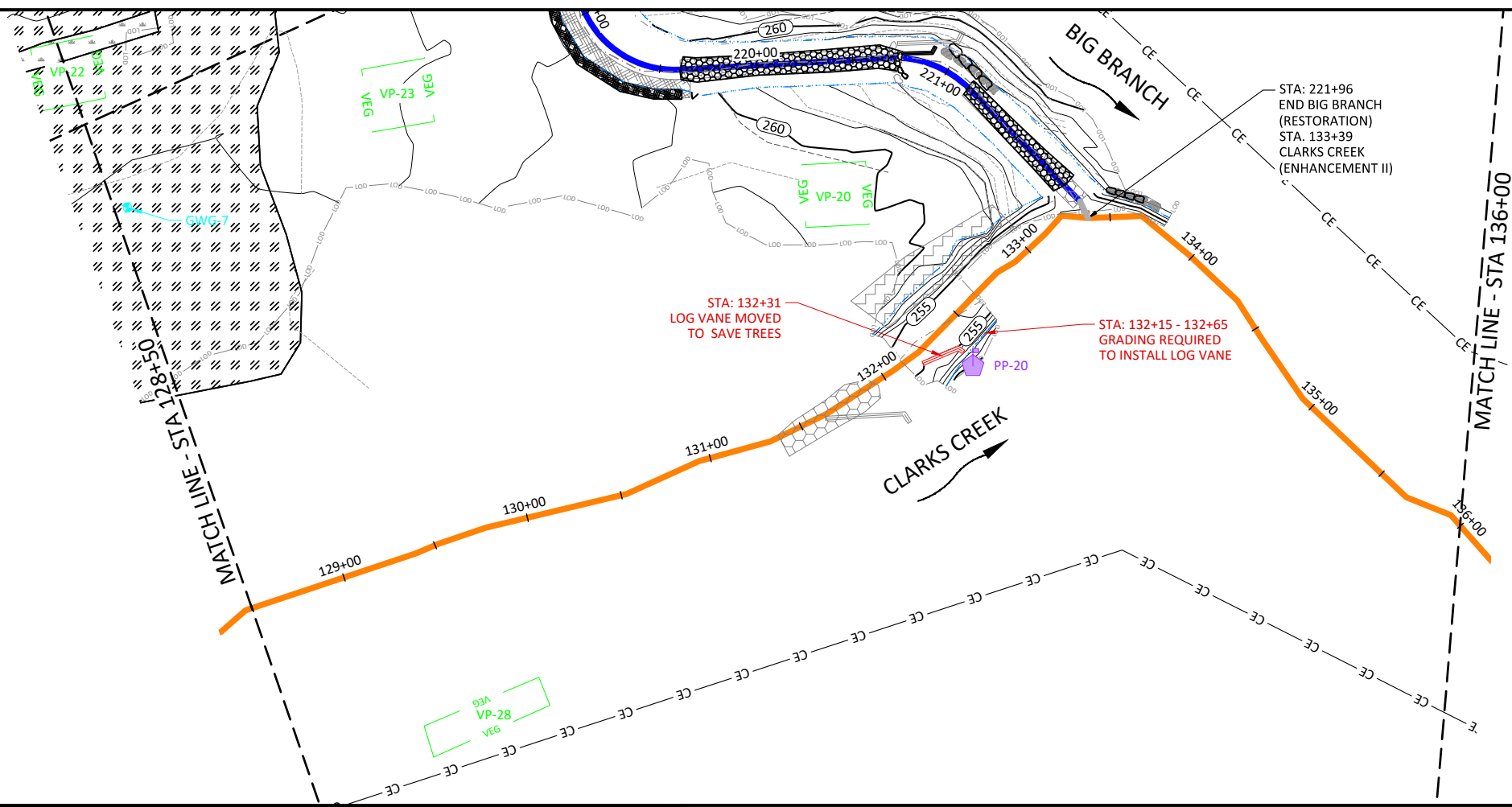
Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.1.3



Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek
Stream Plan and Profile

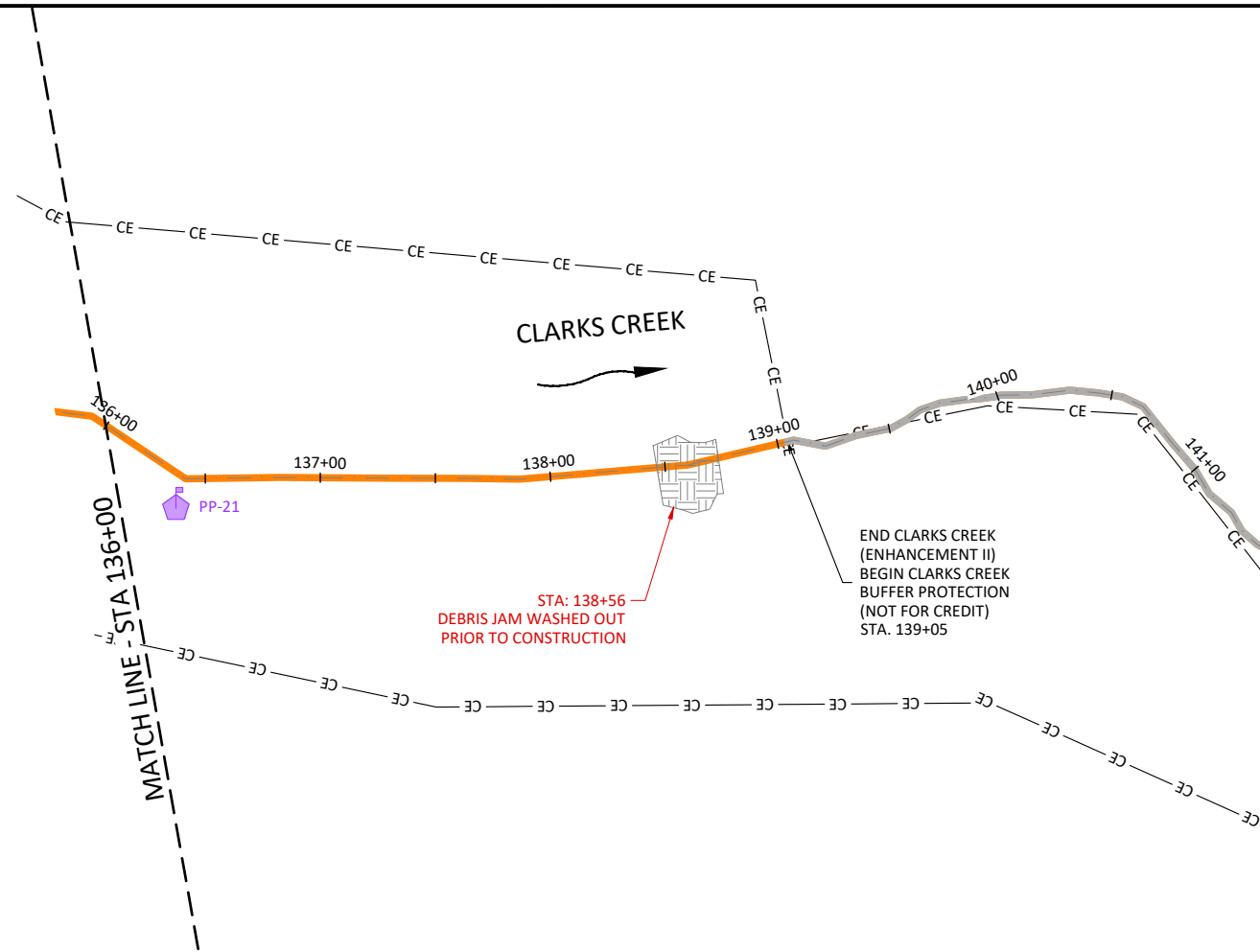
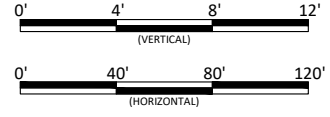
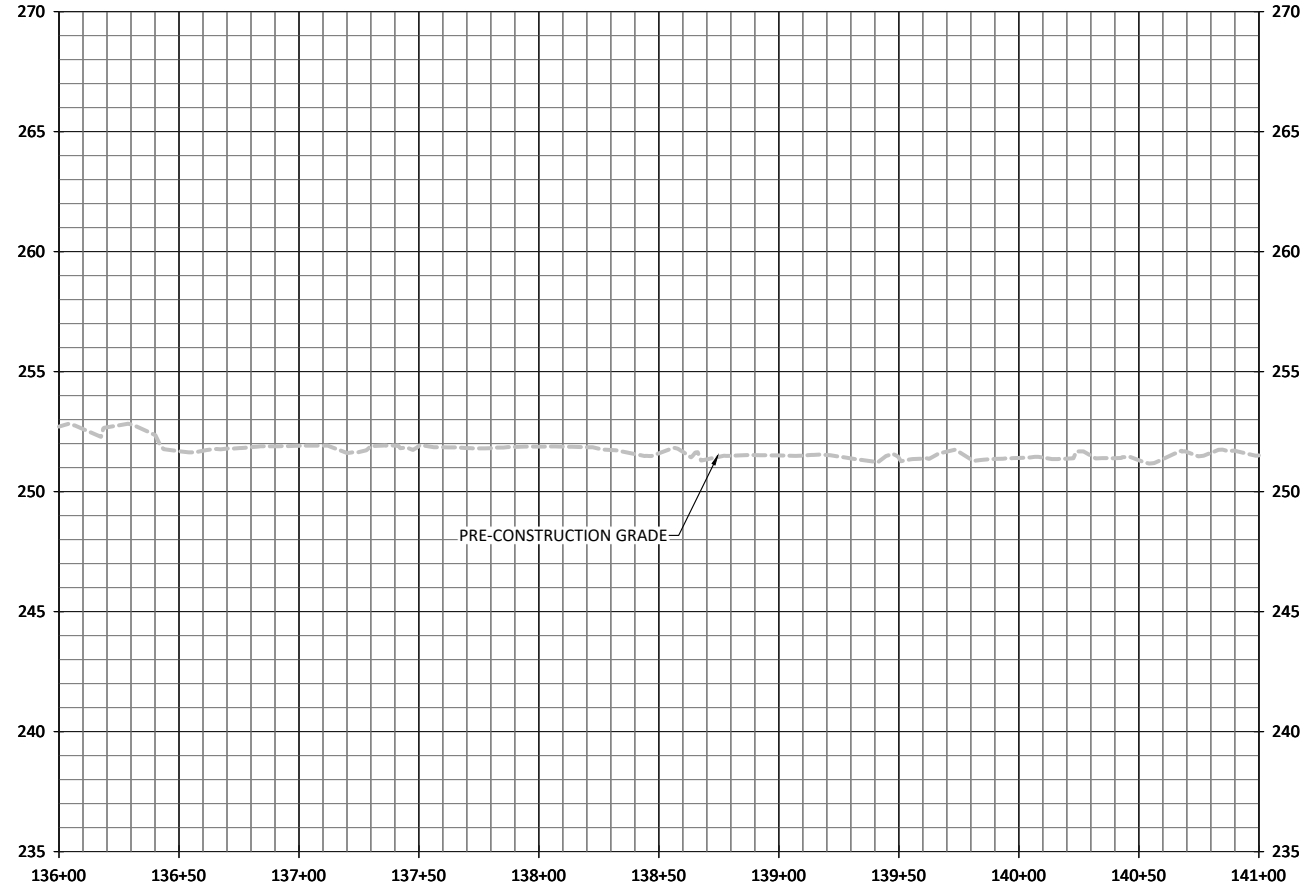


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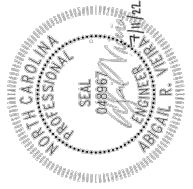
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Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

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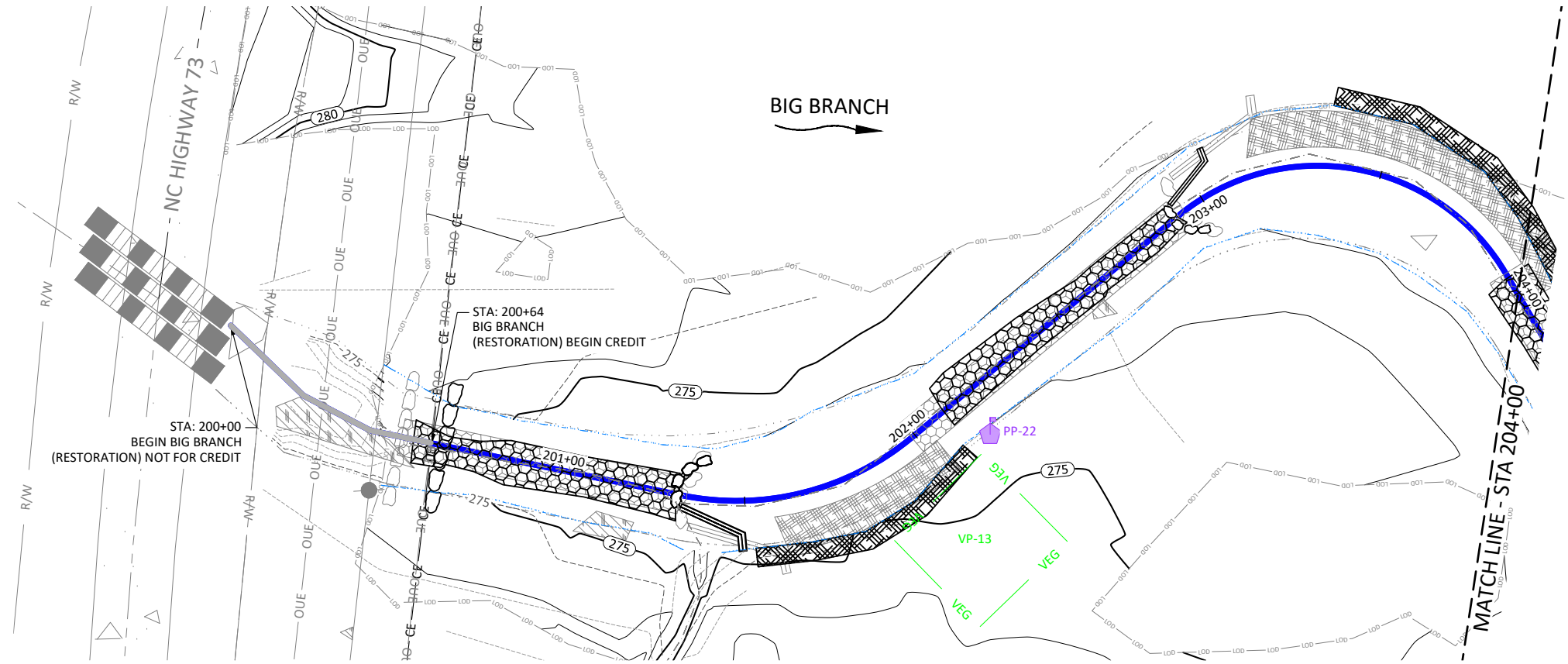
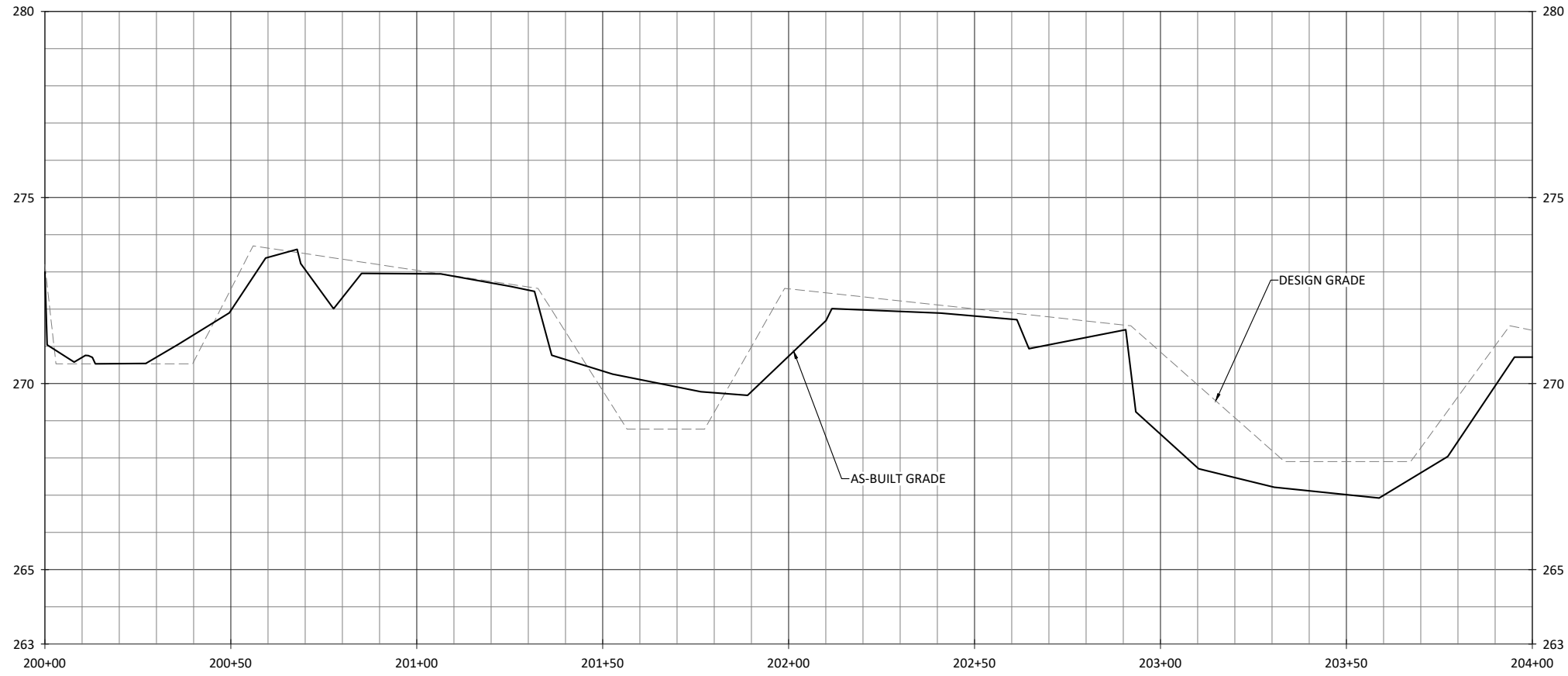


Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek
Stream Plan and Profile

Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWW

1.1.5



NOTES:
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Drawn By:	FHM
Checked By:	TJW

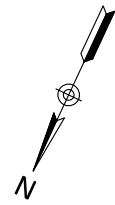
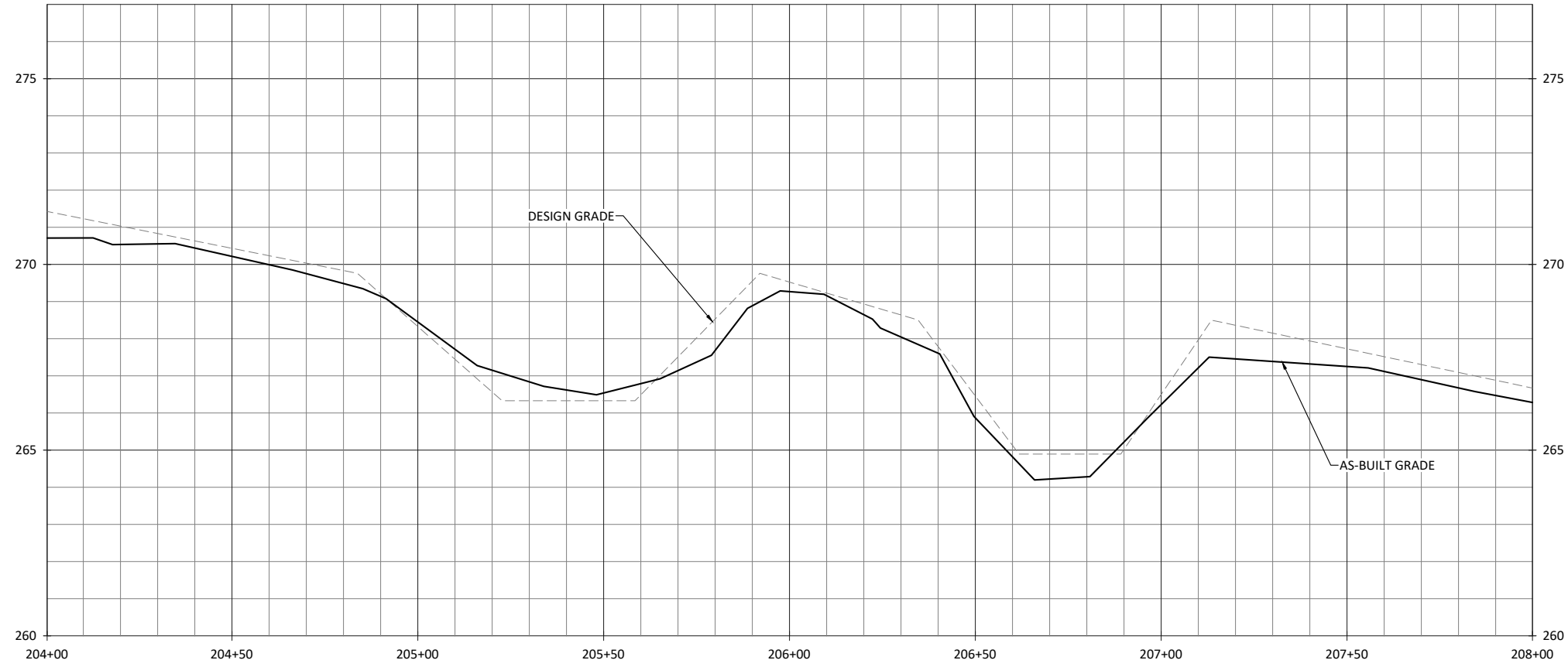
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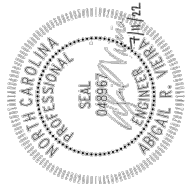
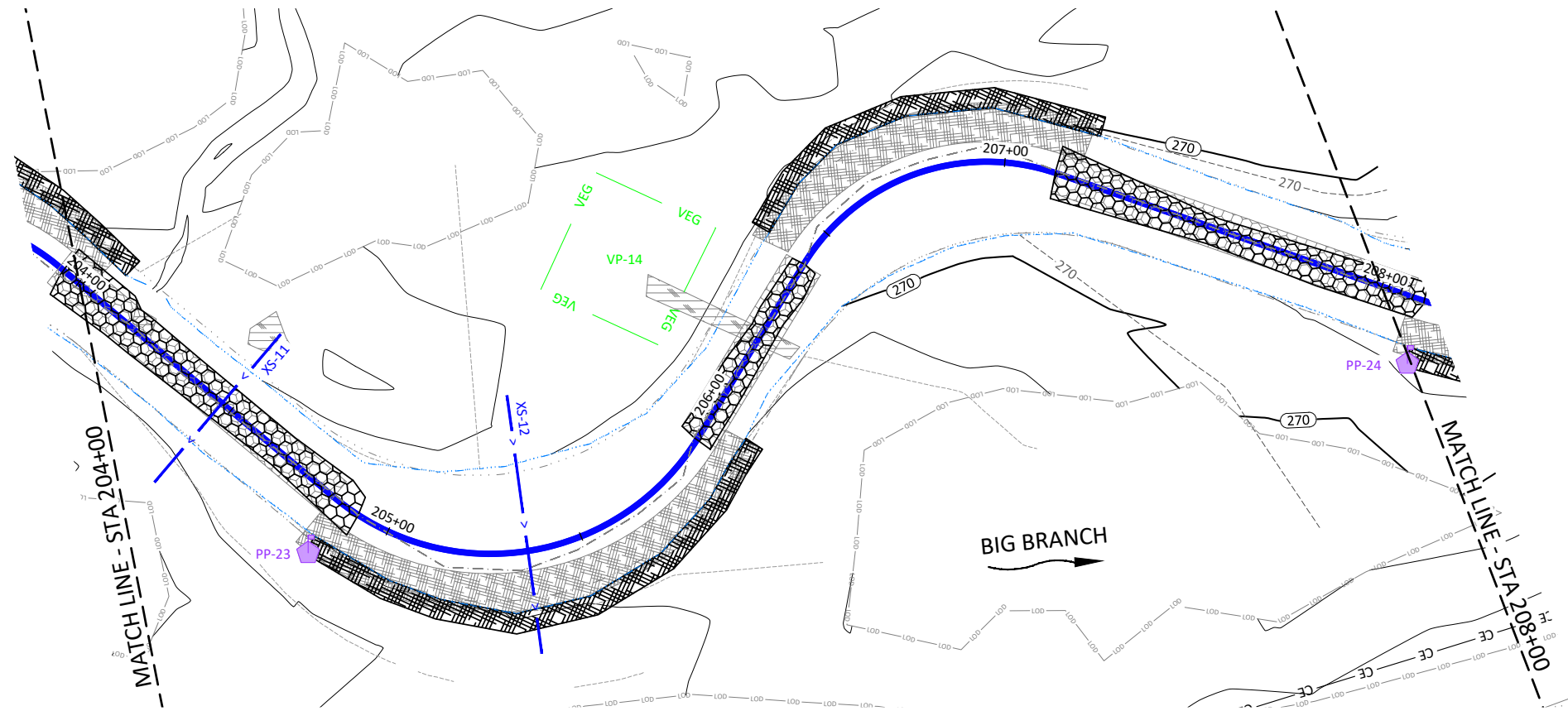
Cross Creek Ranch Site
 Montgomery County, North Carolina
 Big Branch
 Stream Plan and Profile



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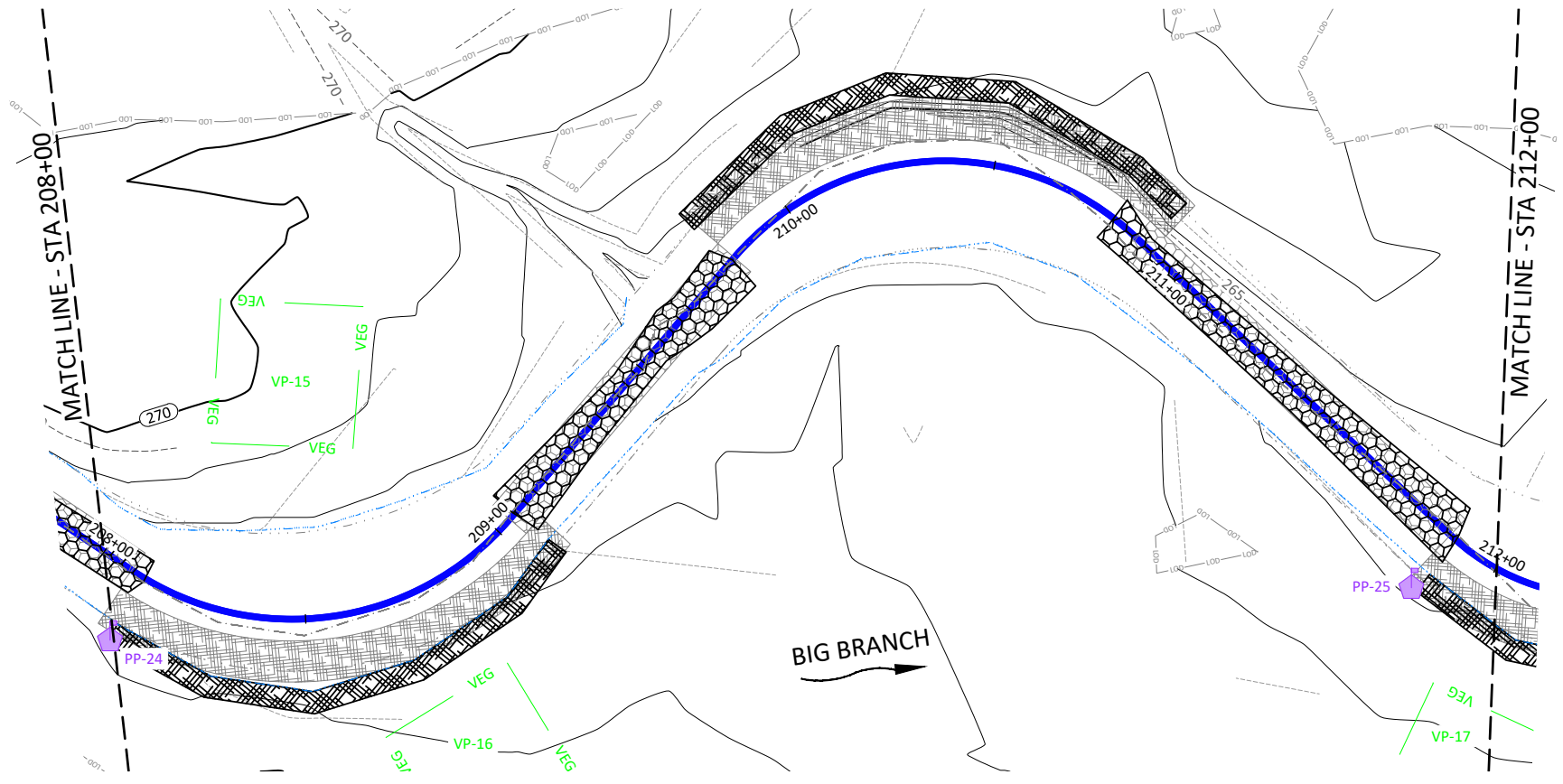
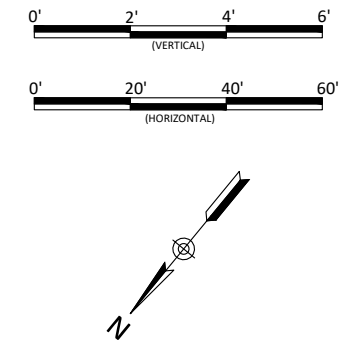
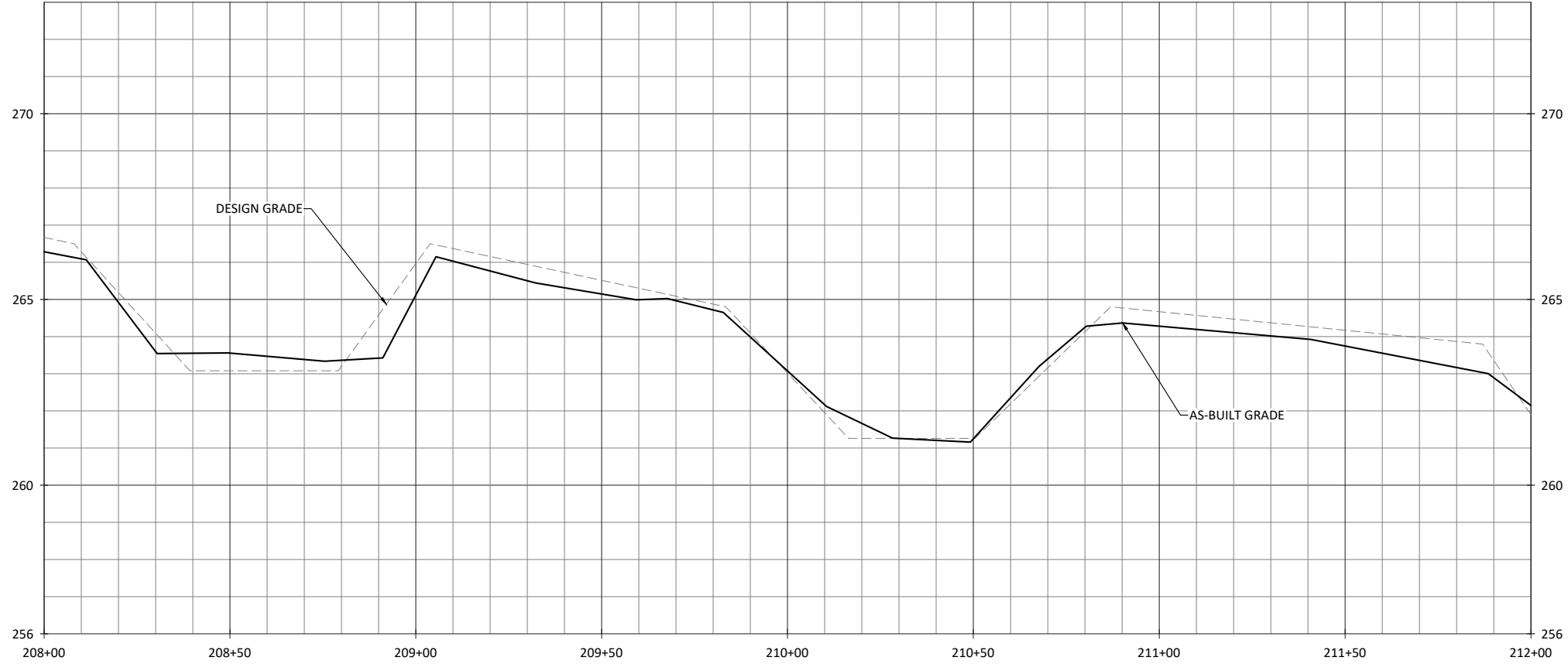


Cross Creek Ranch Site
Montgomery County, North Carolina
Big Branch
Stream Plan and Profile

Revisions:

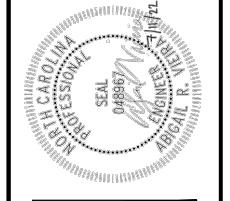
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Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.2.2



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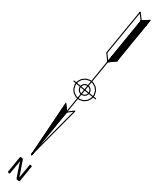
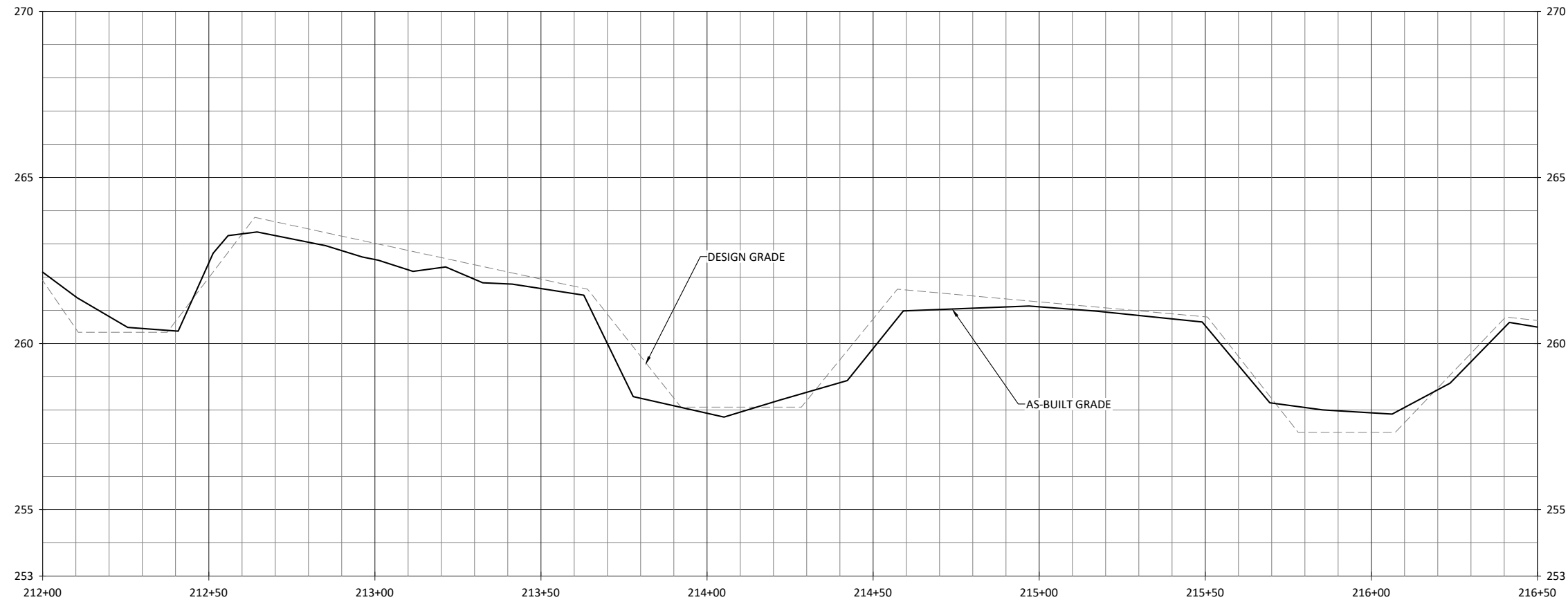


Cross Creek Ranch Site
 Montgomery County, North Carolina
 Big Branch
 Stream Plan and Profile

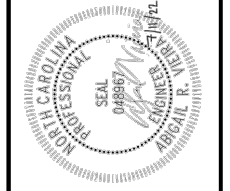
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Date: 07.11.2022
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 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

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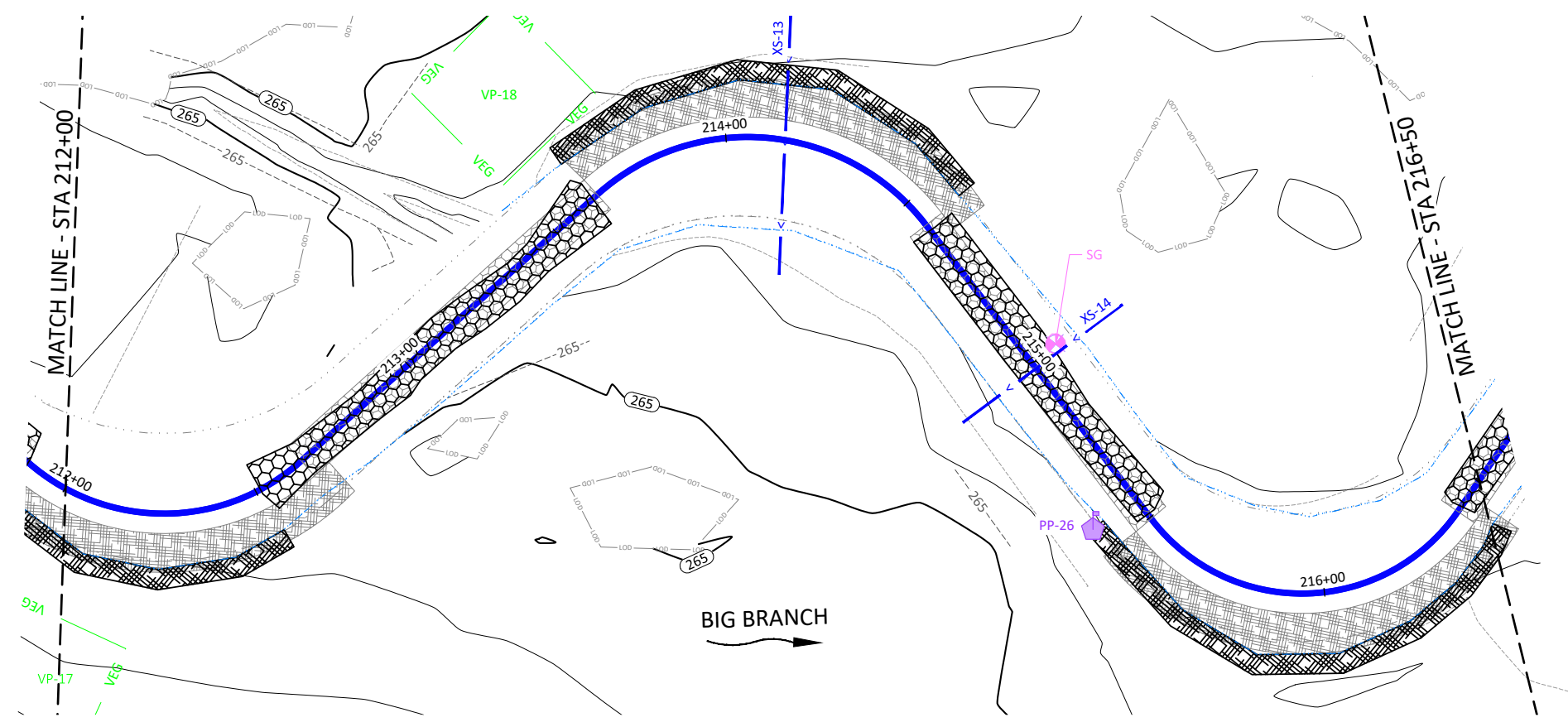


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Raleigh, NC 27609
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Cross Creek Ranch Site
Montgomery County, North Carolina
Big Branch
Stream Plan and Profile

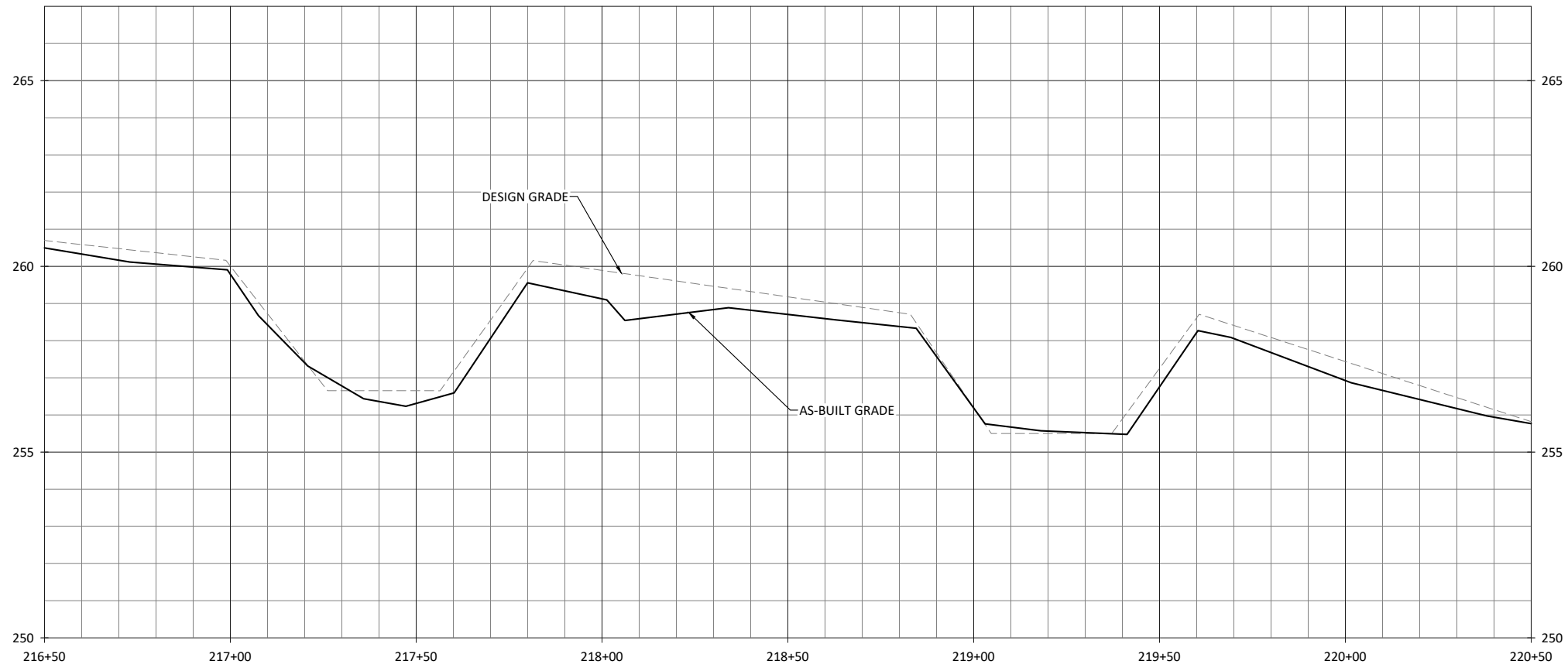
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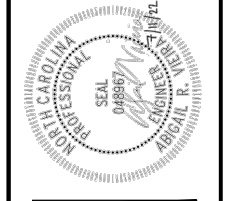
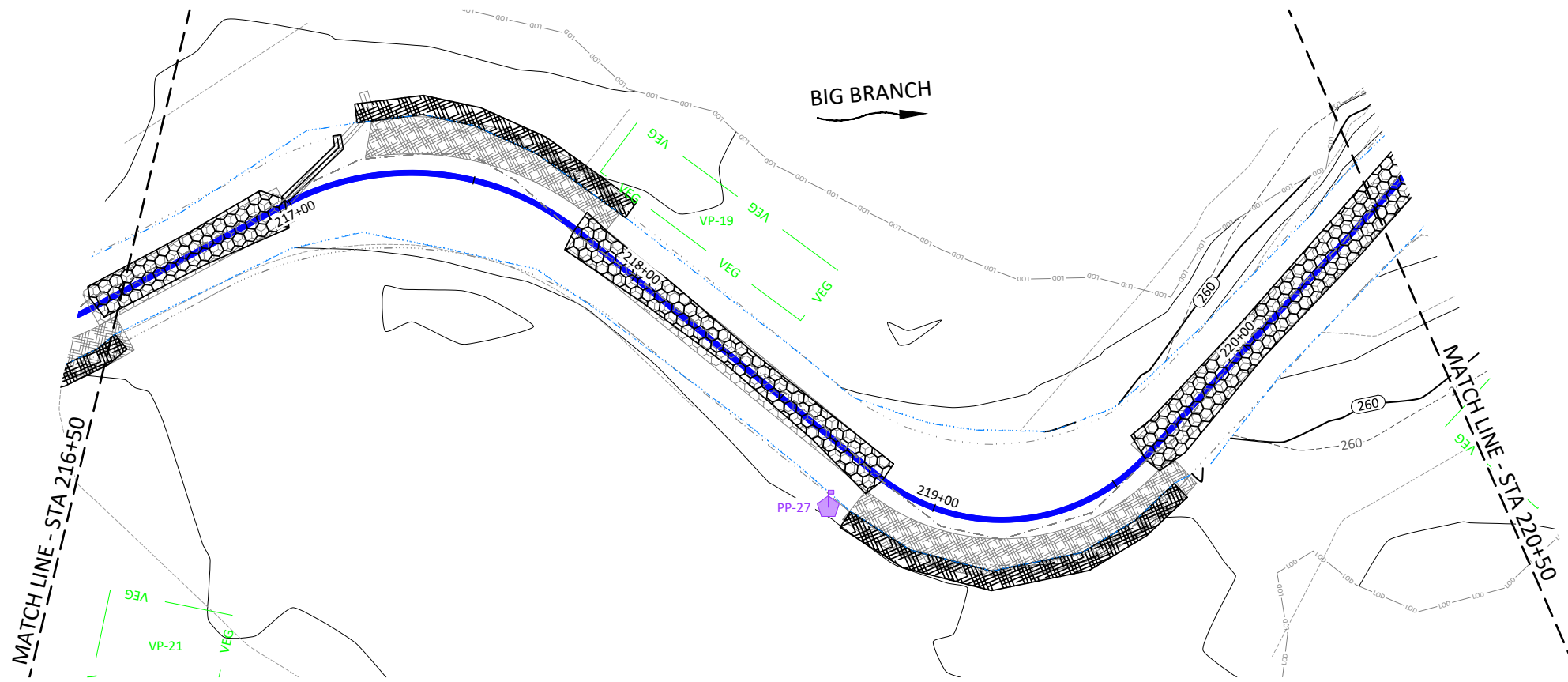
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Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWW

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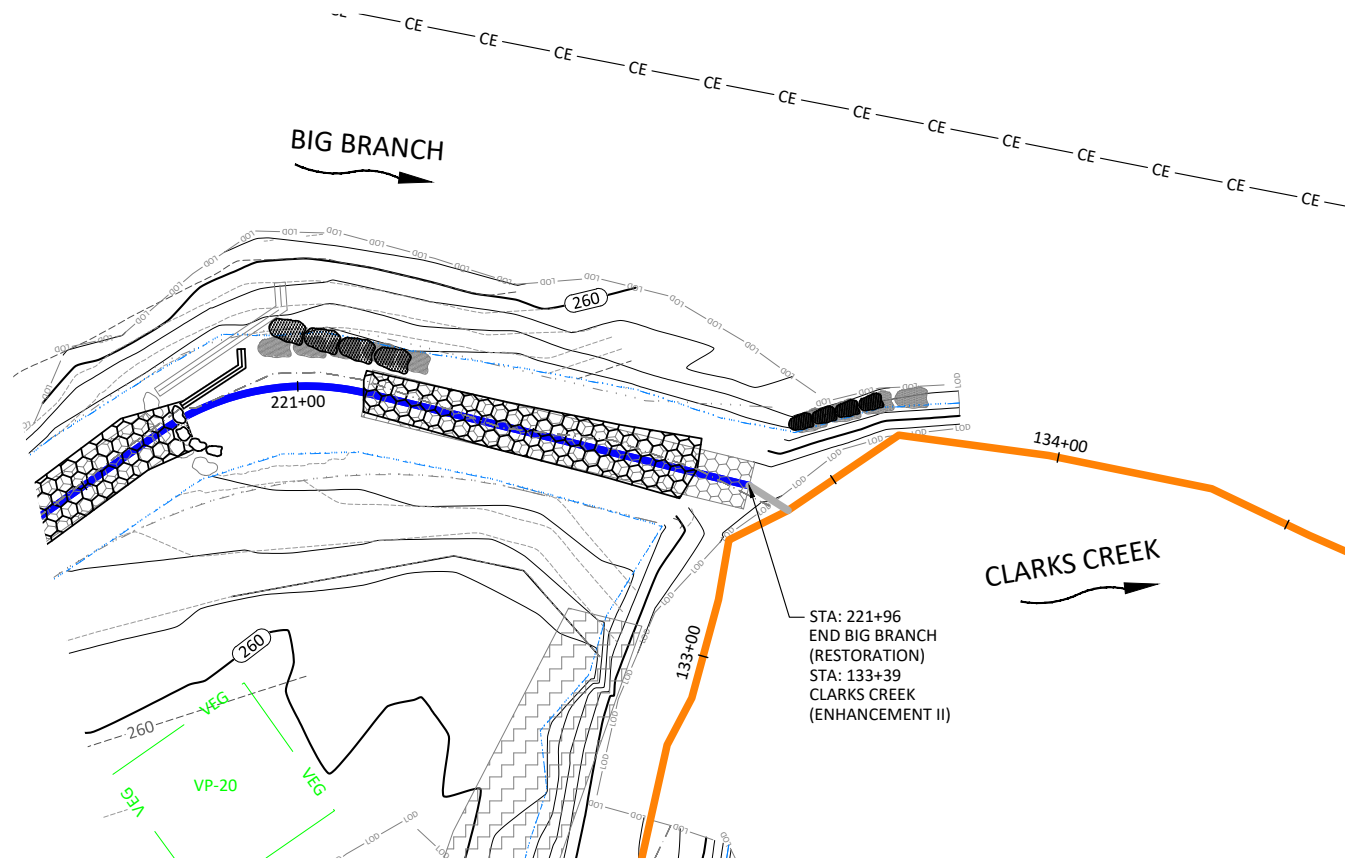
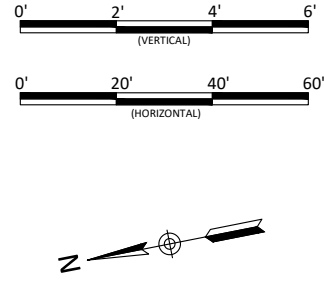
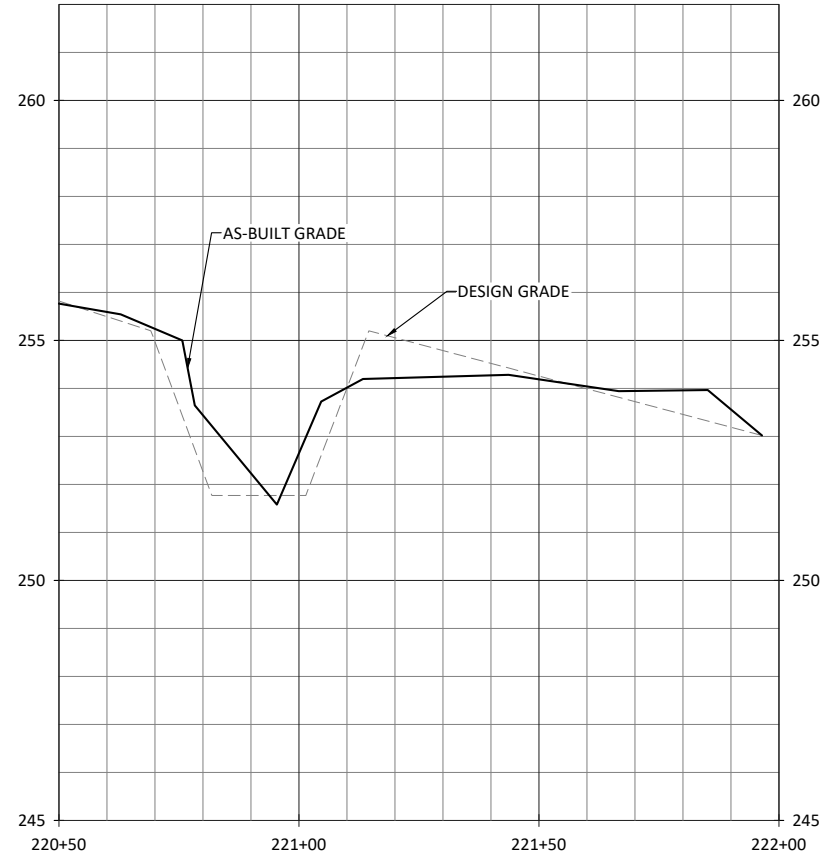


Cross Creek Ranch Site
 Montgomery County, North Carolina
 Big Branch
 Stream Plan and Profile

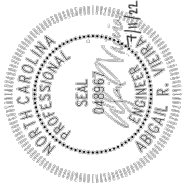
Revisions:

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

1.2.5



- NOTES:
1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.
 2. AS-BUILT INFORMATION FOR CLARKS CREEK IS ADDRESSED ON SHEETS 1.1.1 THROUGH 1.1.5



Cross Creek Ranch Site
Montgomery County, North Carolina

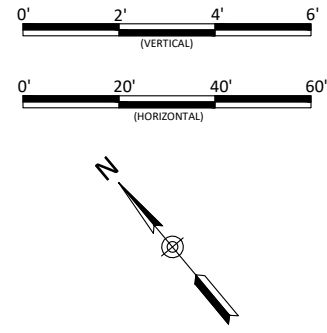
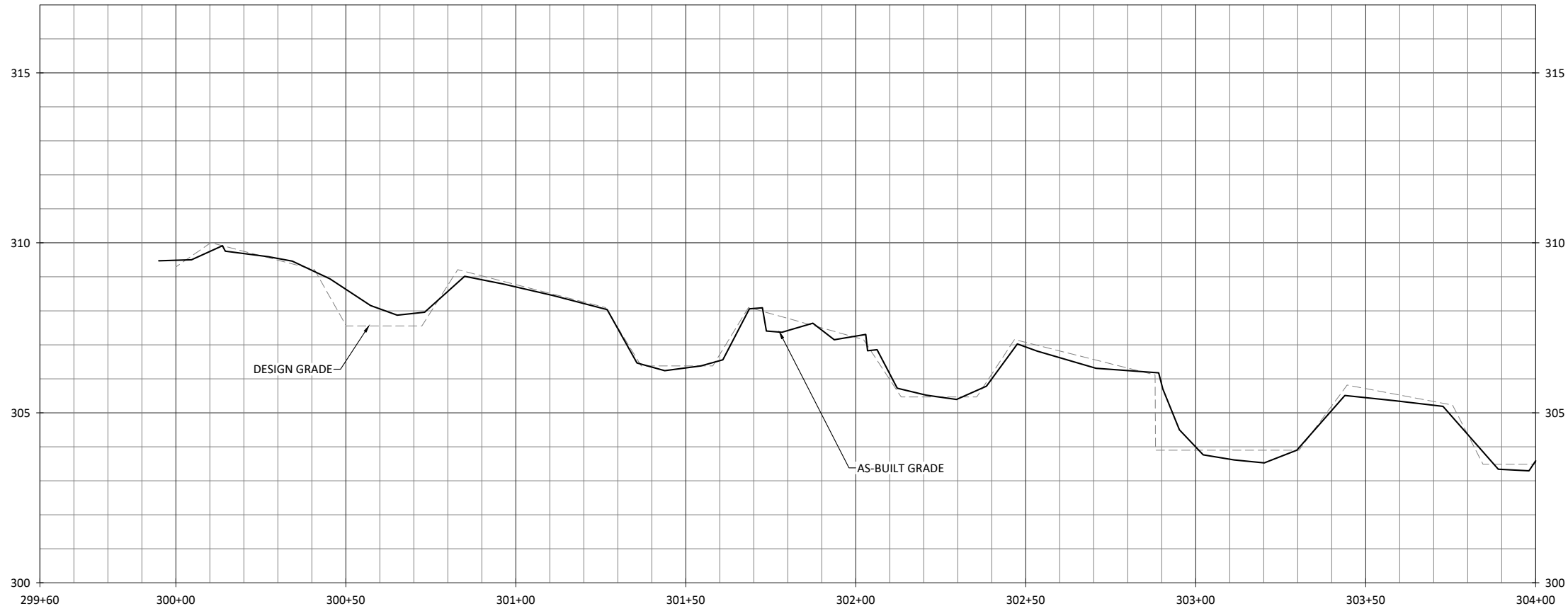
Big Branch
Stream Plan and Profile

Revisions:

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

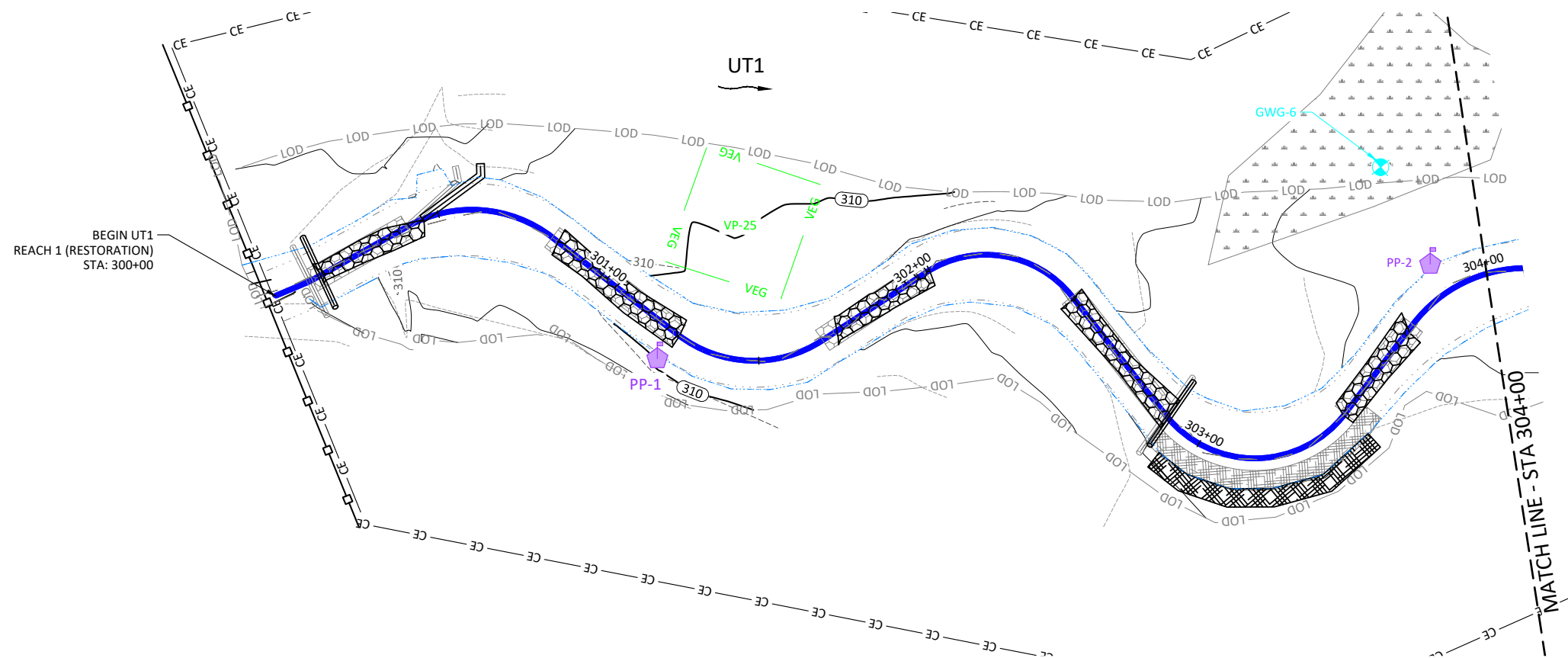
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Sheet



Cross Creek Ranch Site
Montgomery County, North Carolina

UT1
Stream Plan and Profile

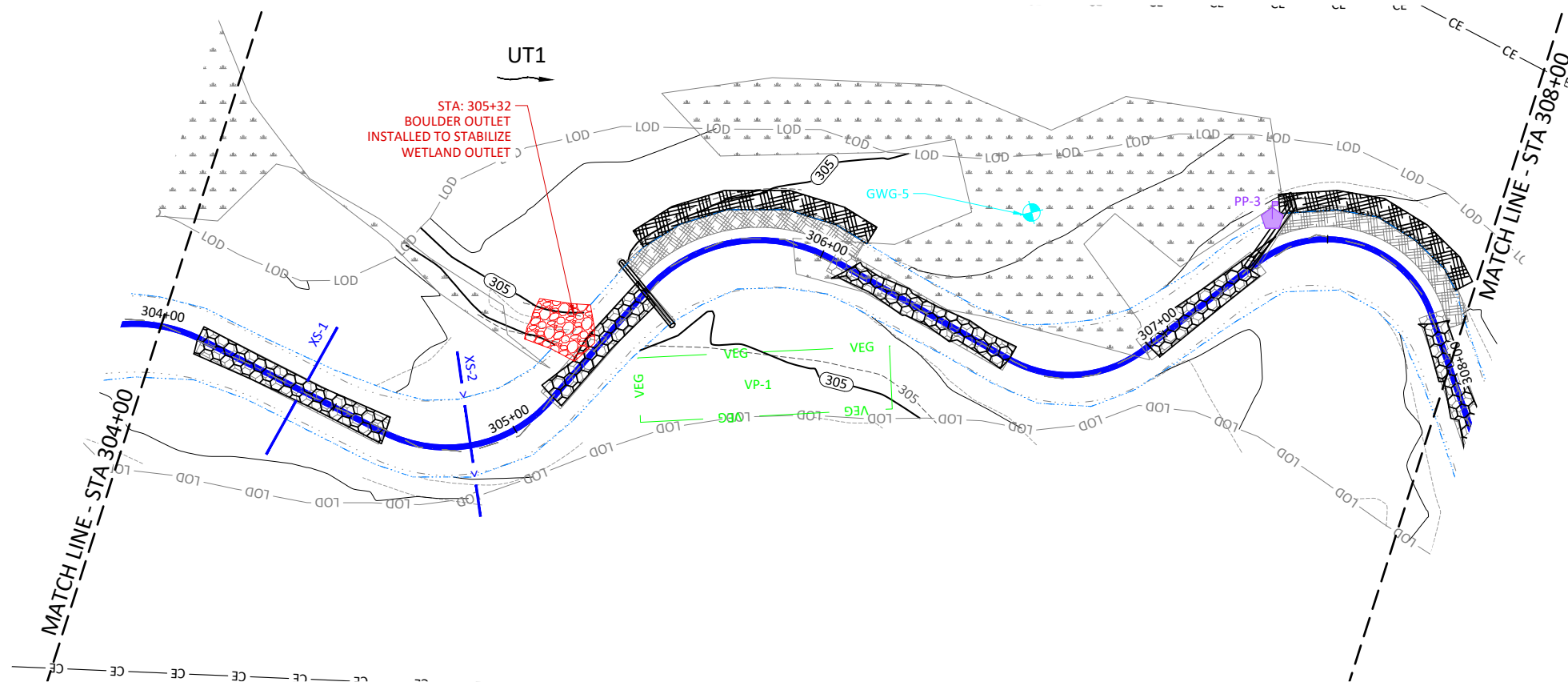
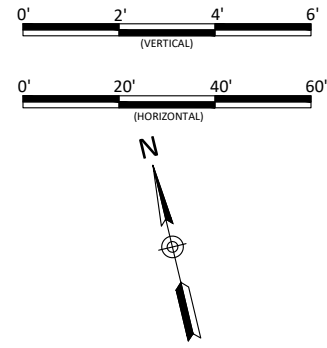
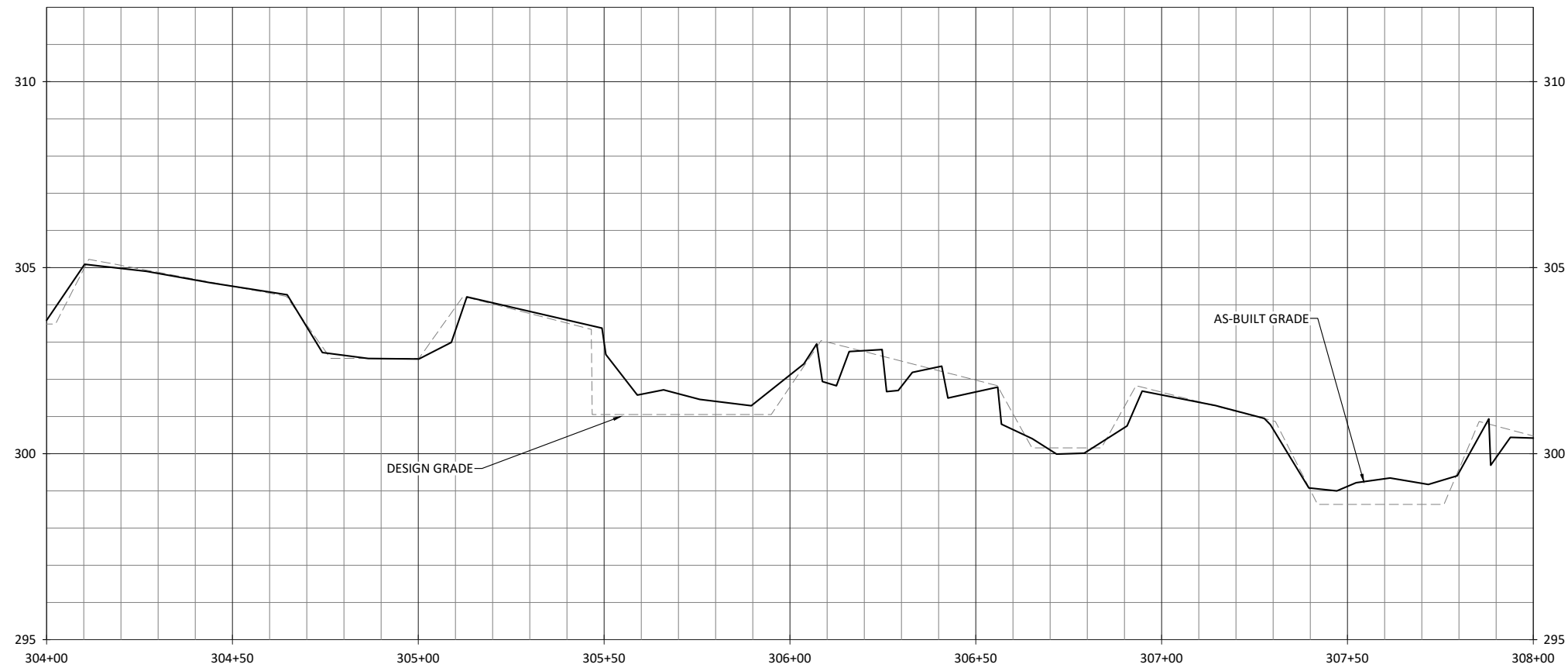


NOTES:
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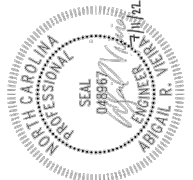
Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.3.1



NOTES:
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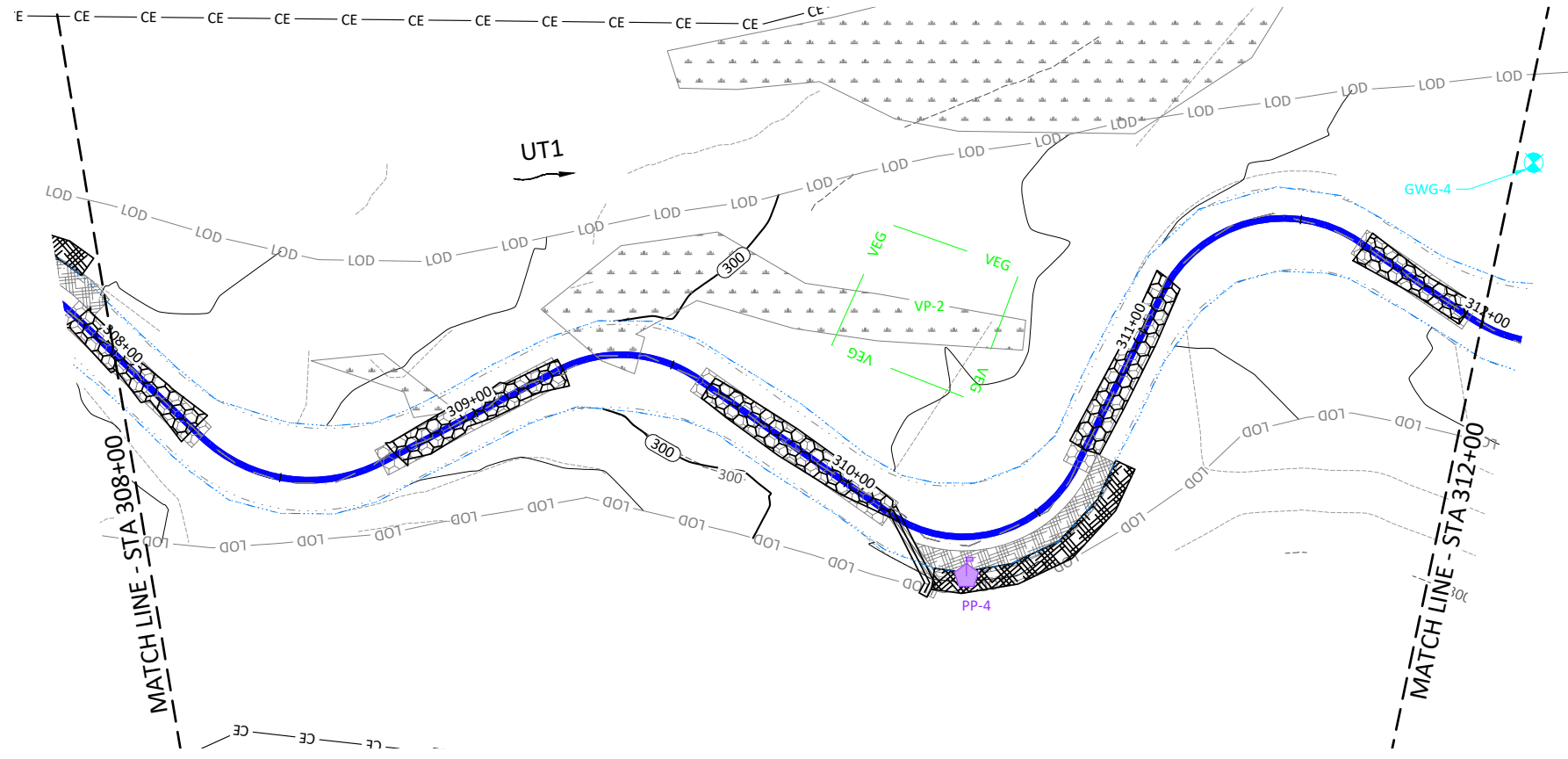
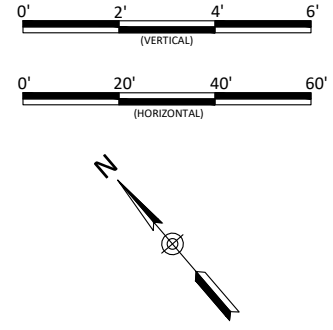
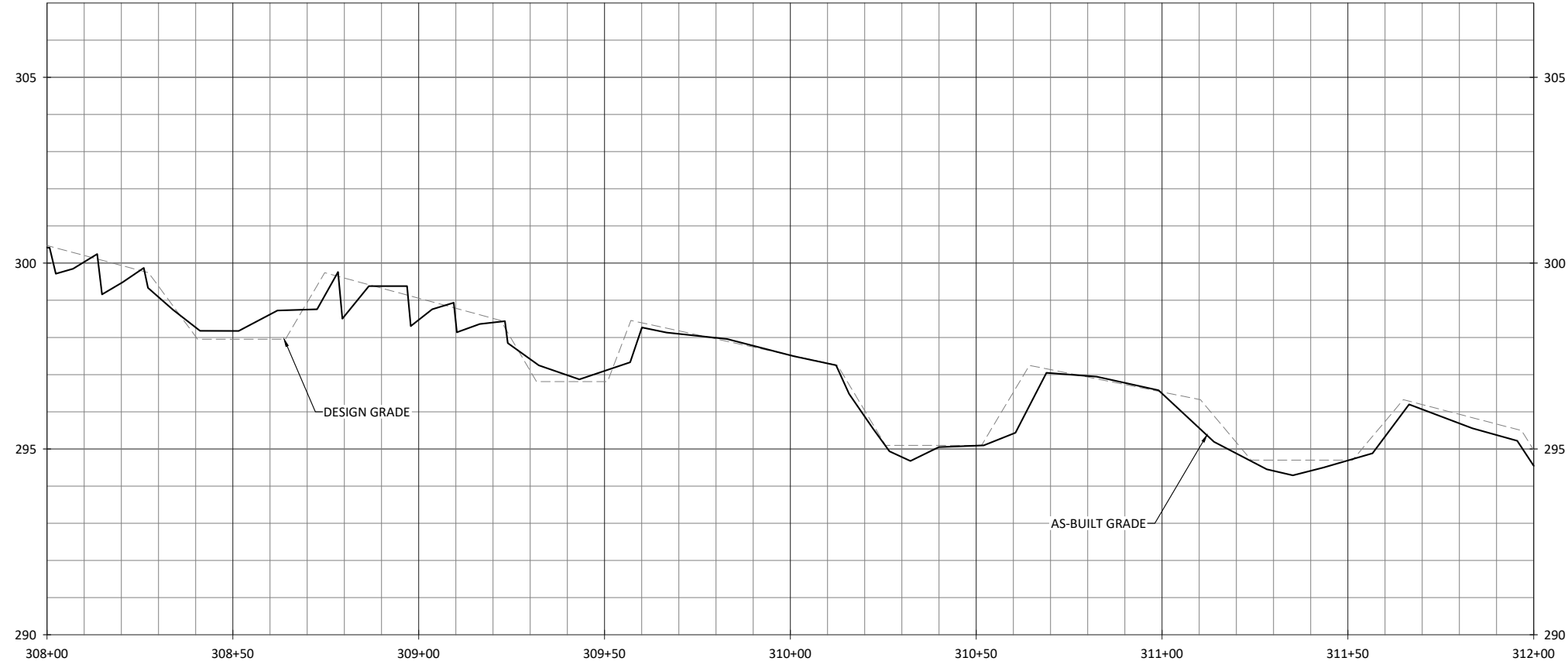
Cross Creek Ranch Site
 Montgomery County, North Carolina

UT1
 Stream Plan and Profile

Revisions:

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

1.3.2



NOTES:
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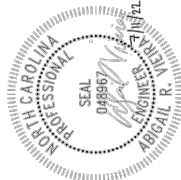
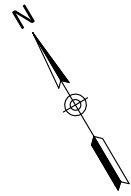
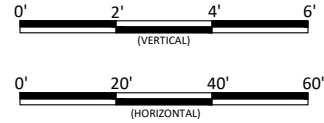
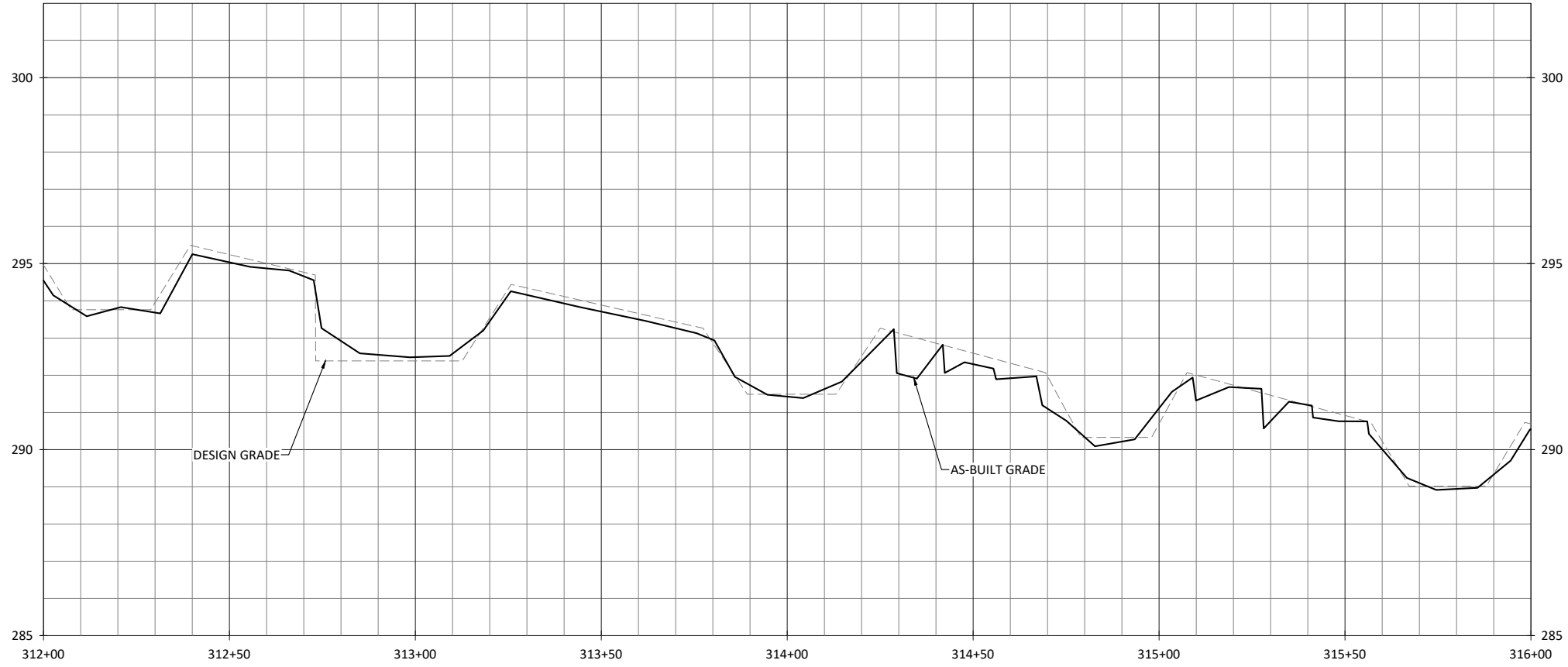
Cross Creek Ranch Site
 Montgomery County, North Carolina

UT1
 Stream Plan and Profile

Revisions:

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
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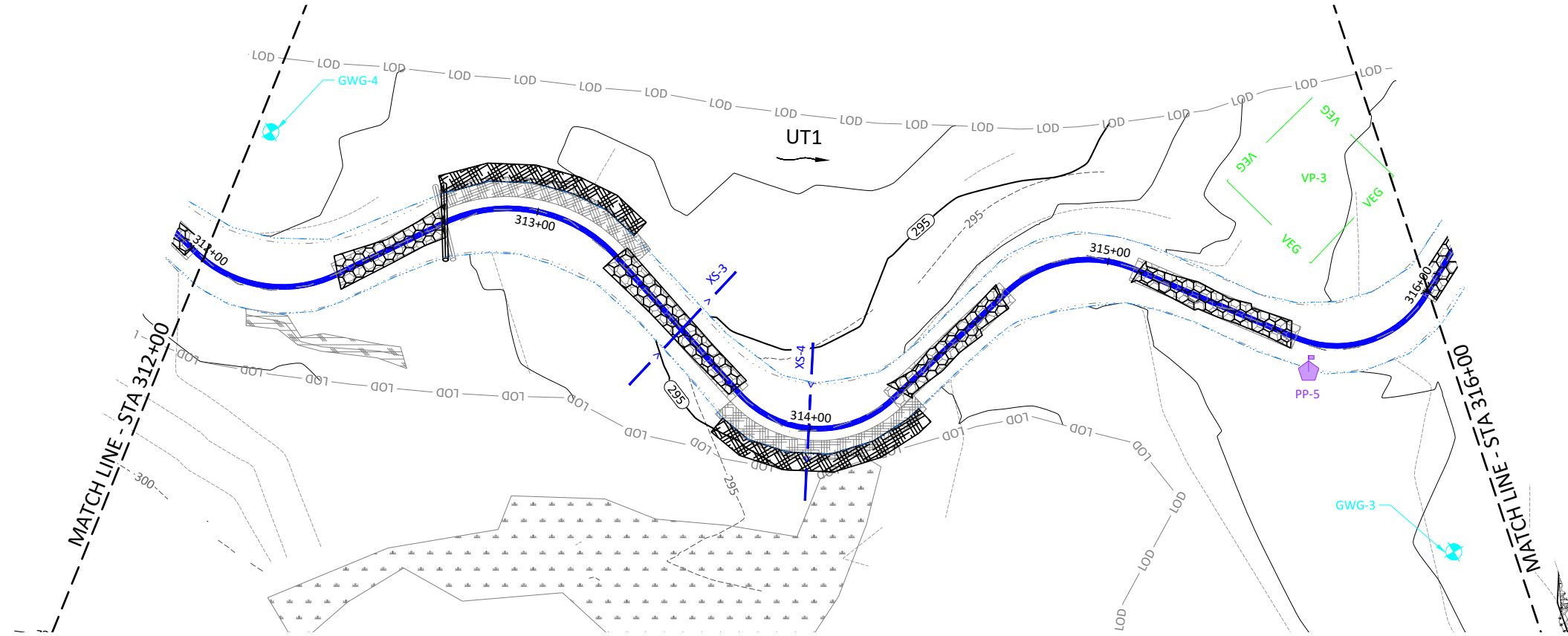
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Cross Creek Ranch Site
Montgomery County, North Carolina

UT1
Stream Plan and Profile

NOTES:
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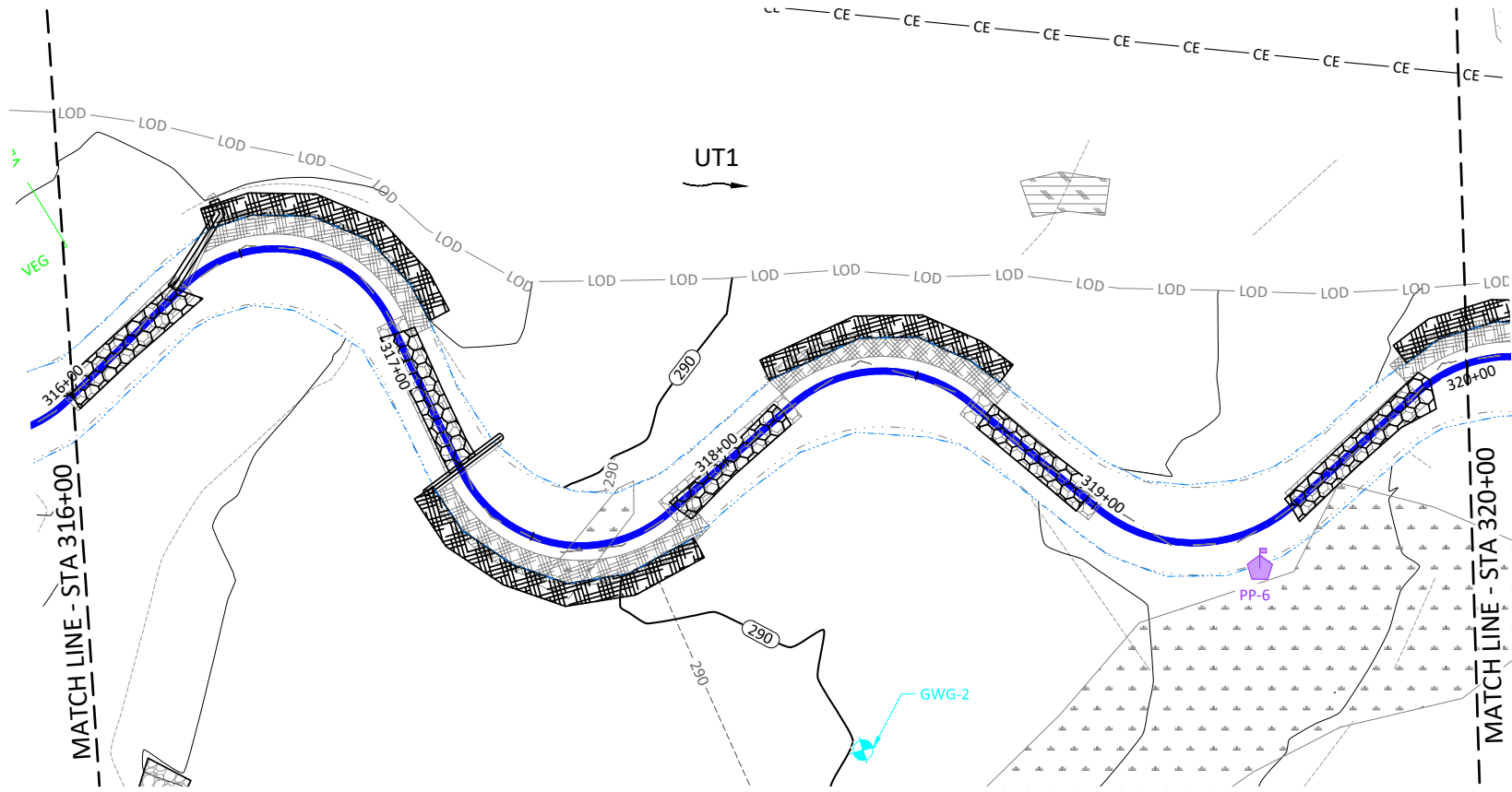
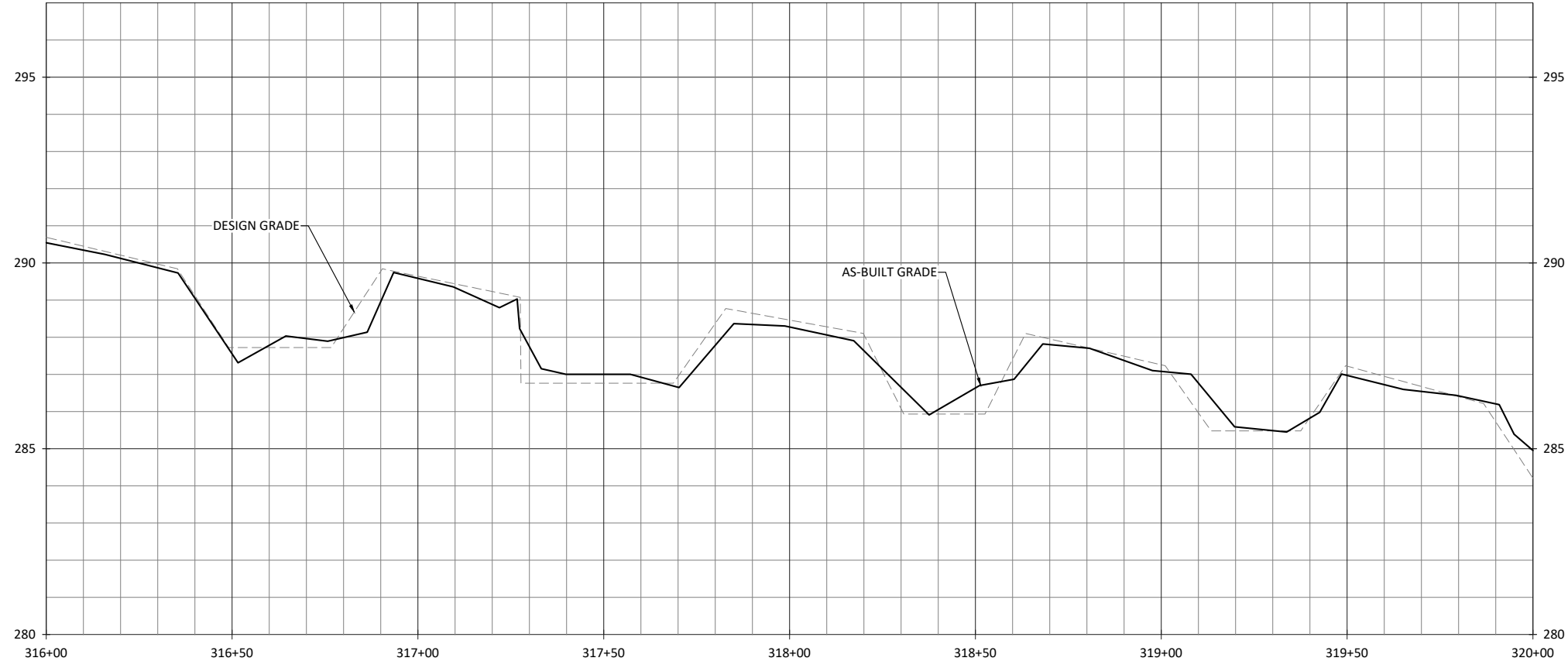


Revisions:

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

1.3.4

Sheet



NOTES:
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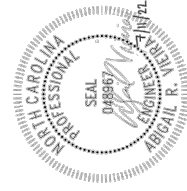
Revisions:

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

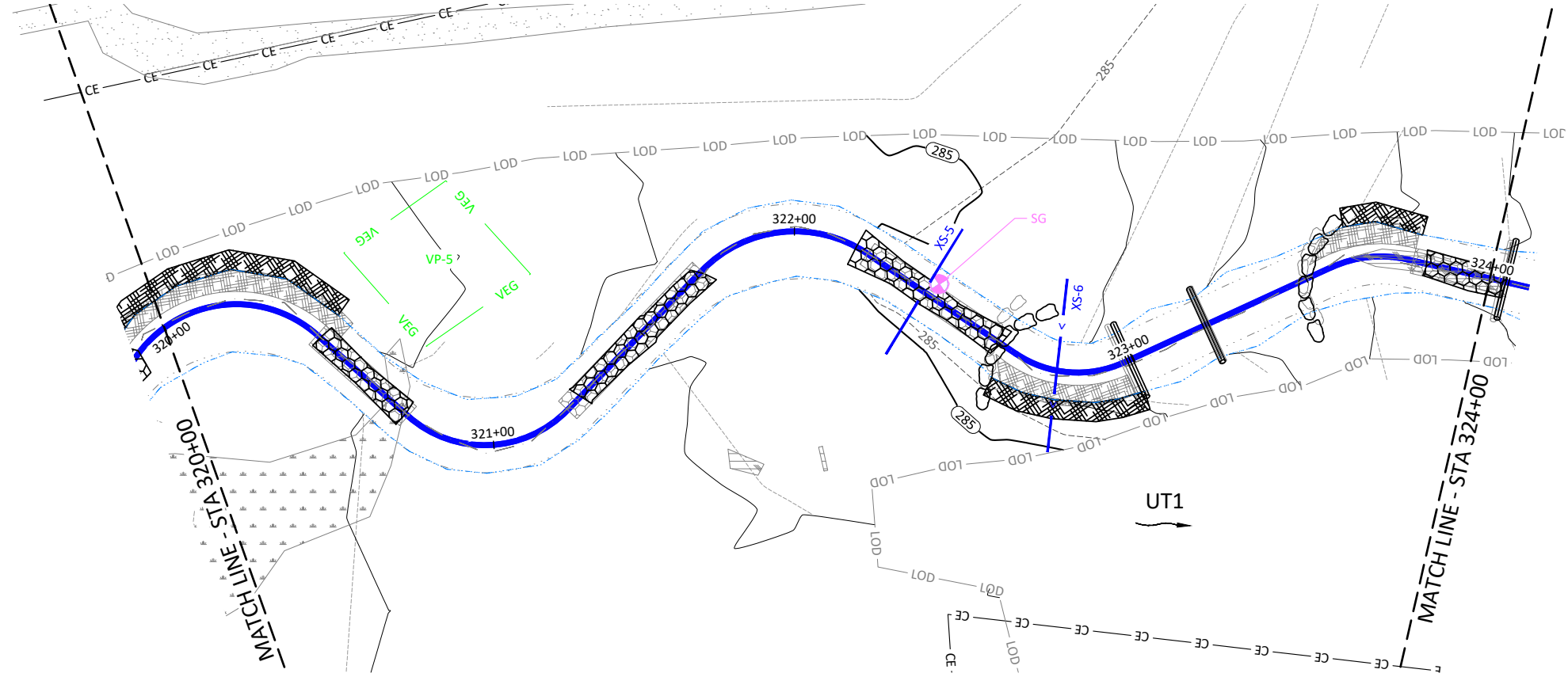
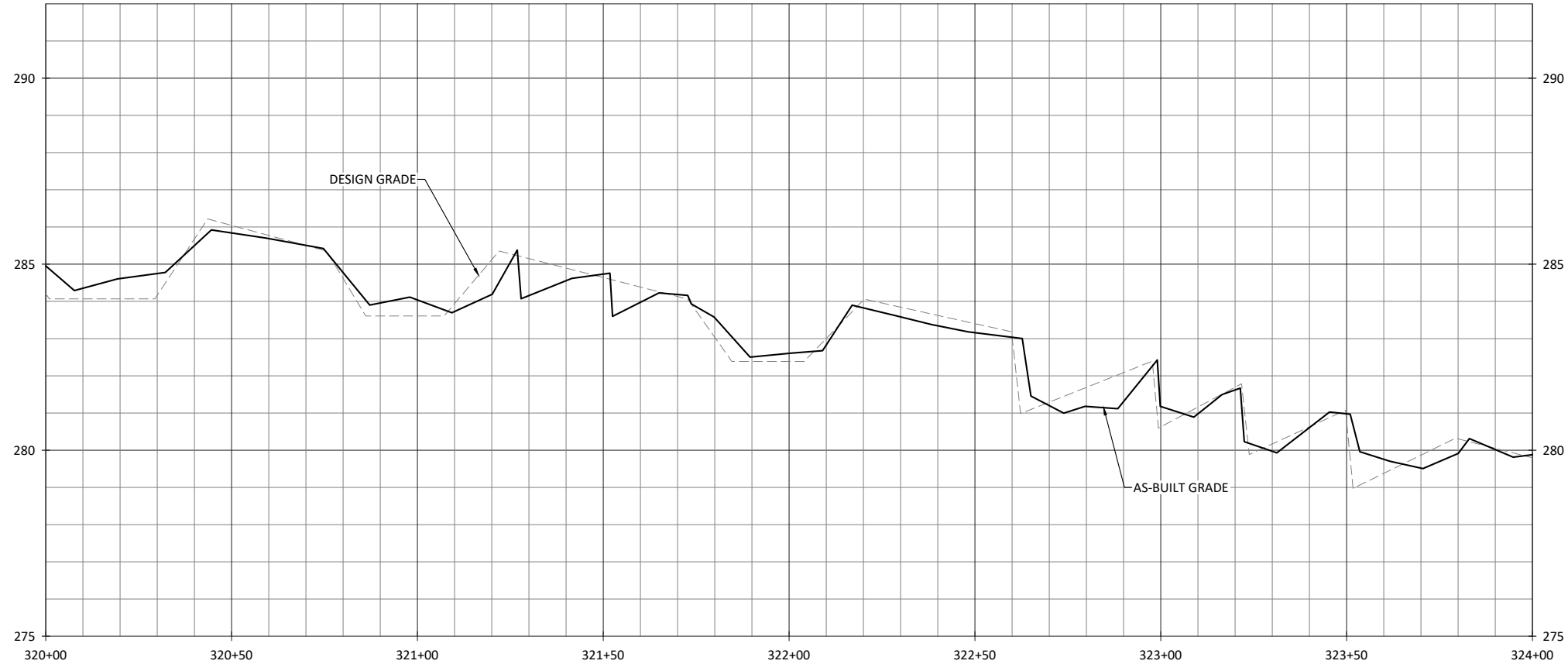
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Sheet

Cross Creek Ranch Site
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 UT1
 Stream Plan and Profile



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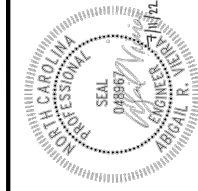
NOTES:
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Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

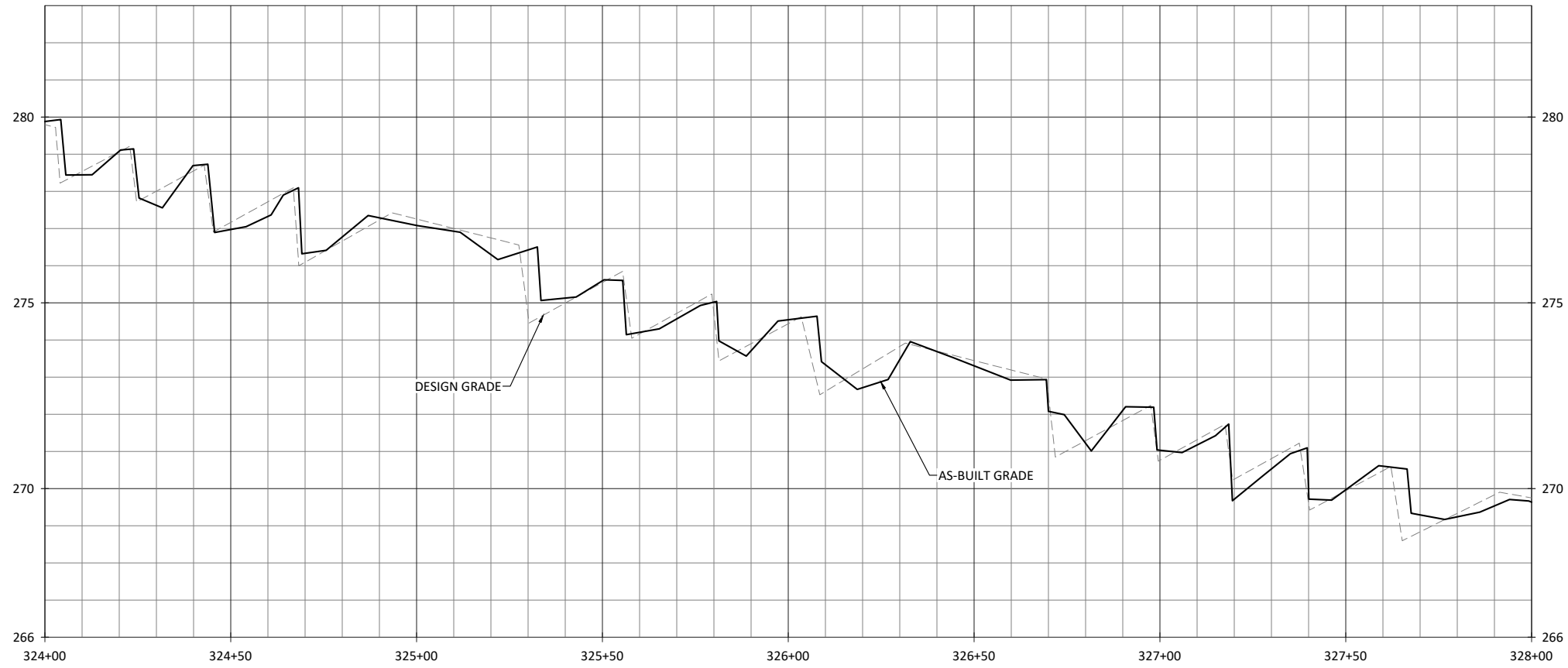
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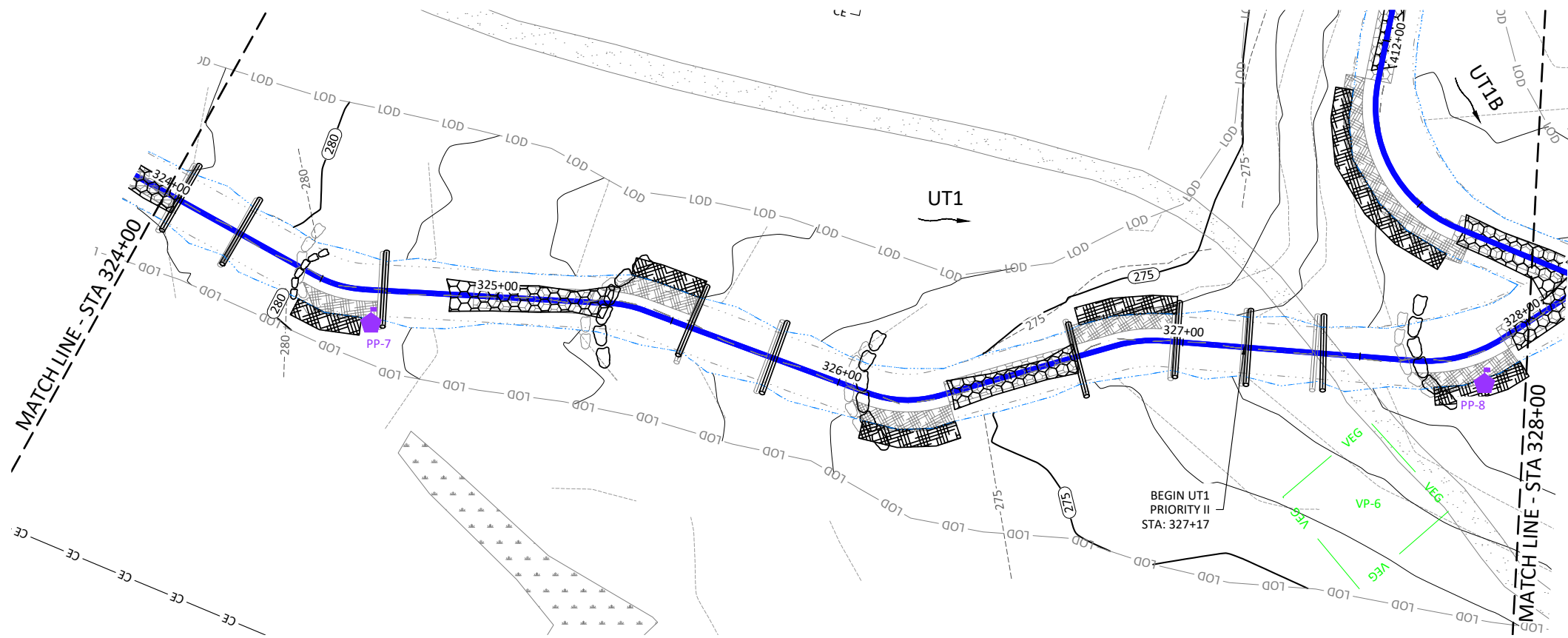
Cross Creek Ranch Site
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 UT1
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- NOTES:
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 2. AS-BUILT INFORMATION FOR CLARKS CREEK IS ADDRESSED ON SHEETS 1.4.1 THROUGH 1.4.4



Revisions:

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TJW

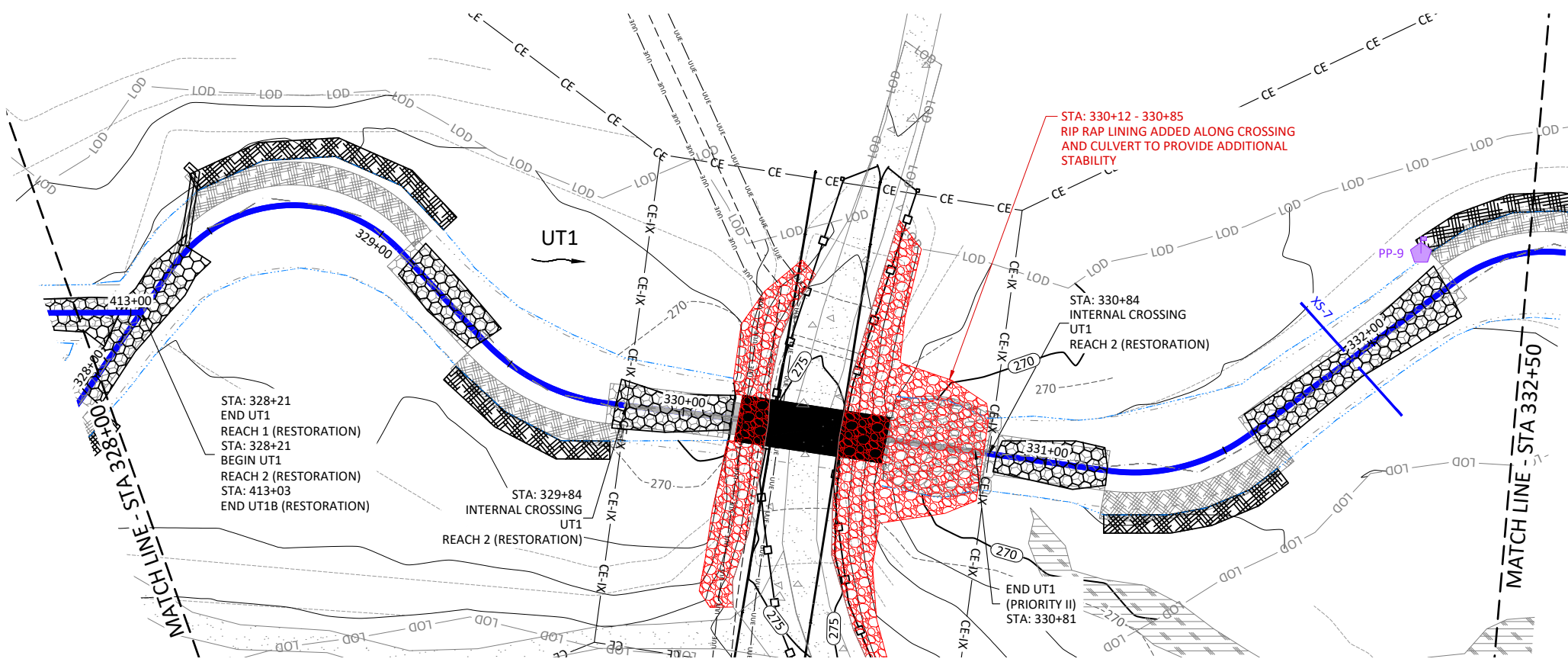
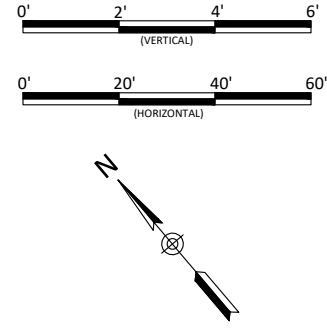
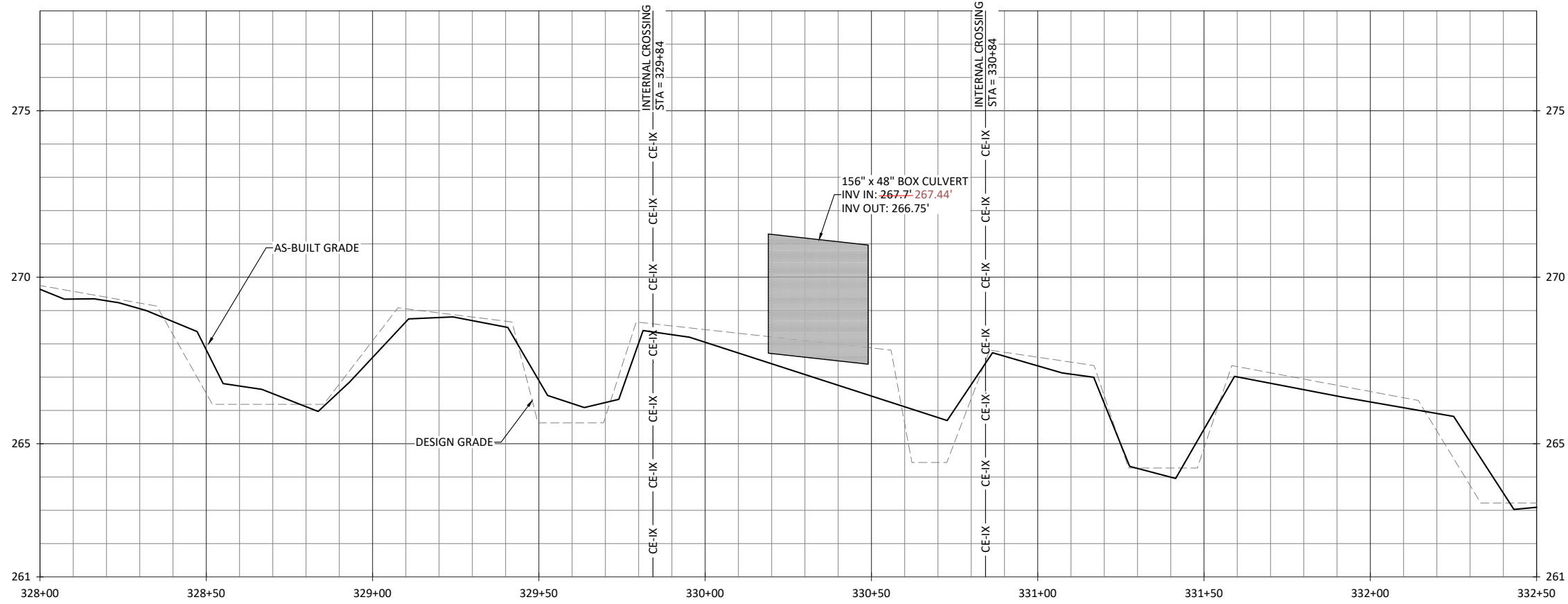
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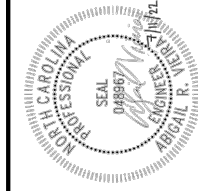
Cross Creek Ranch Site
 Montgomery County, North Carolina

UT1
 Stream Plan and Profile





NOTES:
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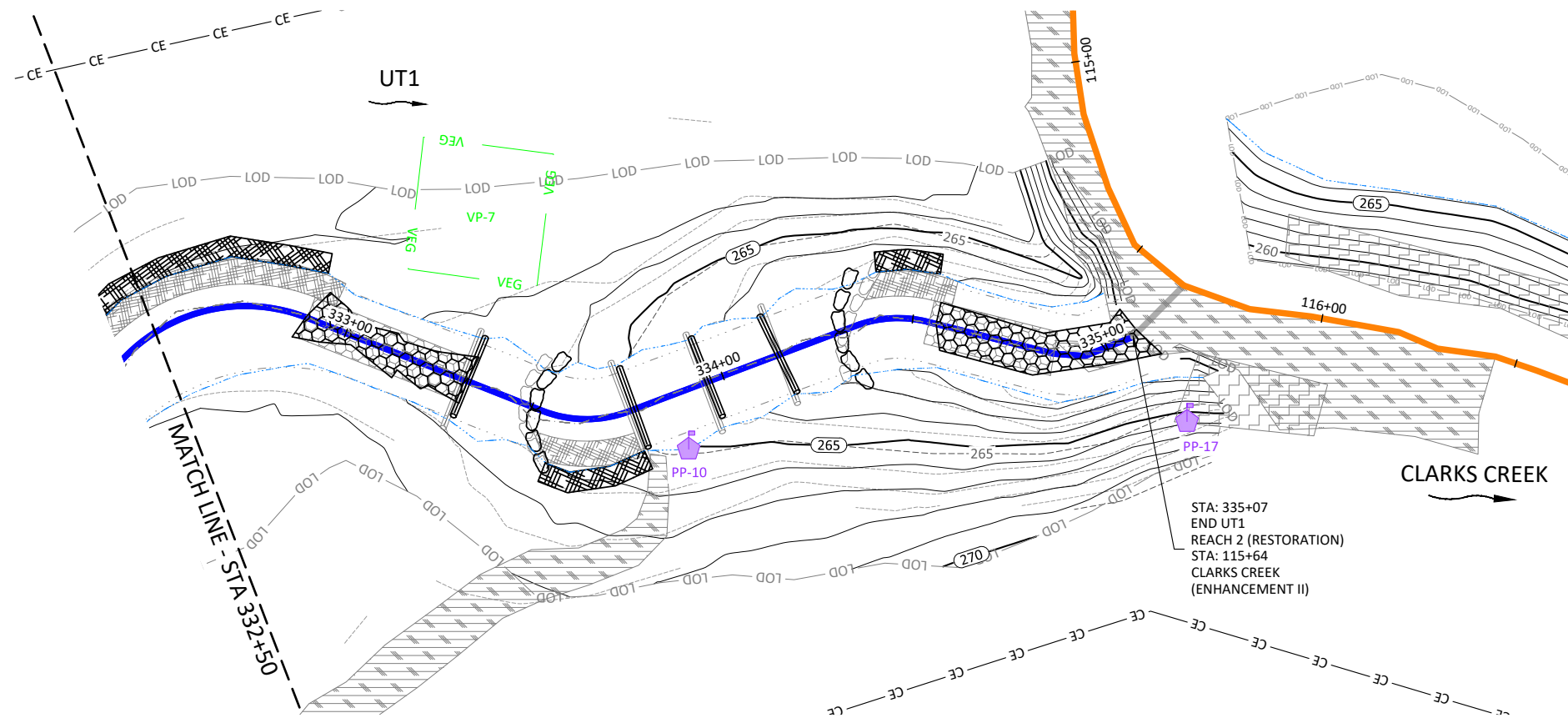
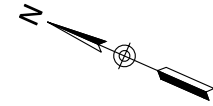
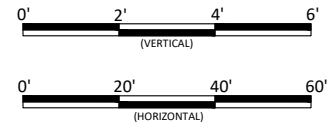
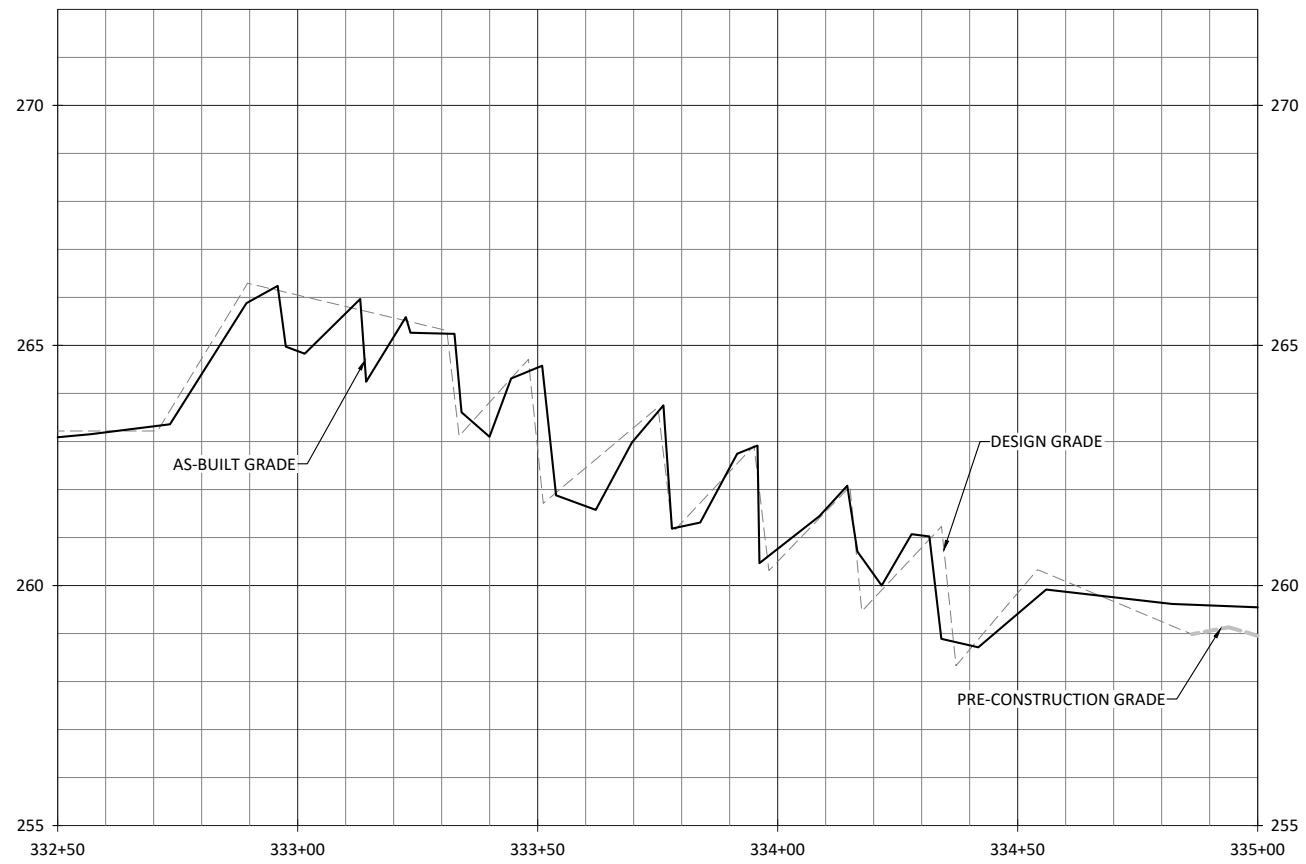


Cross Creek Ranch Site
Montgomery County, North Carolina
 UT1
 Stream Plan and Profile

Revisions:

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
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1.3.8



- NOTES:
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 2. AS-BUILT INFORMATION FOR CLARKS CREEK IS ADDRESSED ON SHEETS 1.1.1 THROUGH 1.1.5

Revisions:

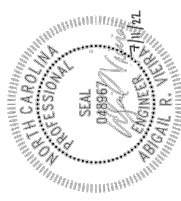
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 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

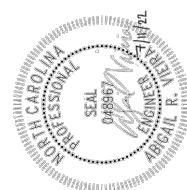
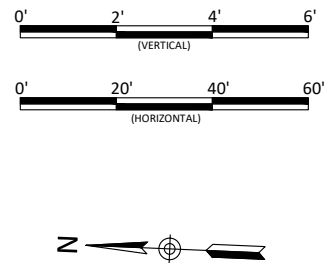
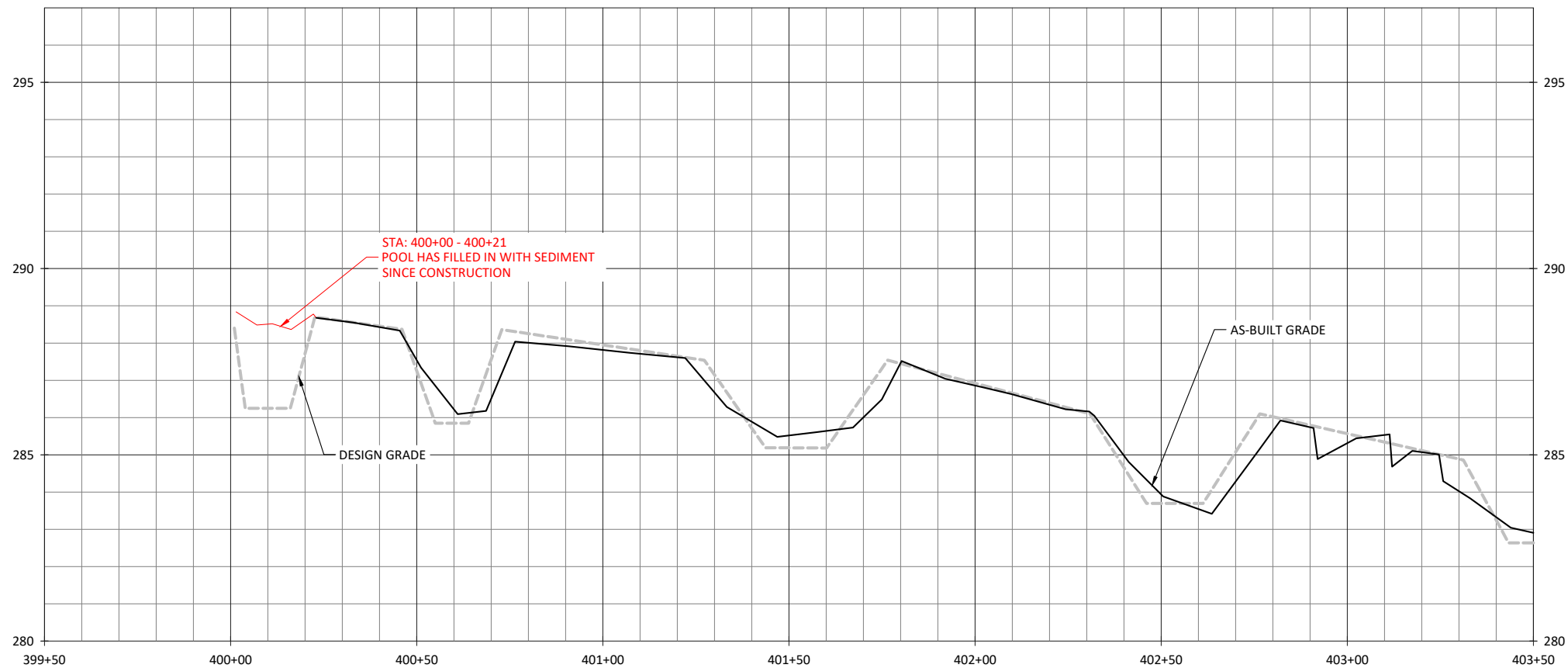
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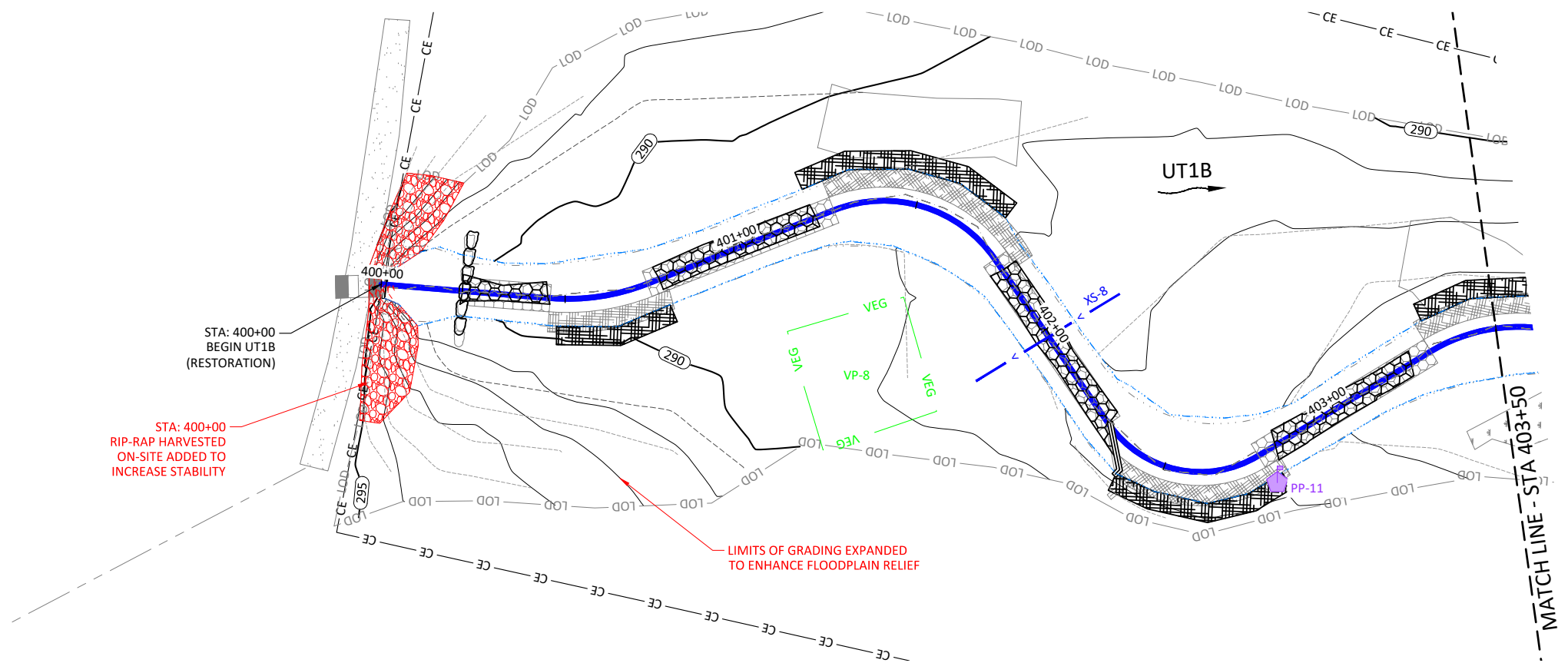
Cross Creek Ranch Site
 Montgomery County, North Carolina
 UT1
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UT1B
Stream Plan and Profile

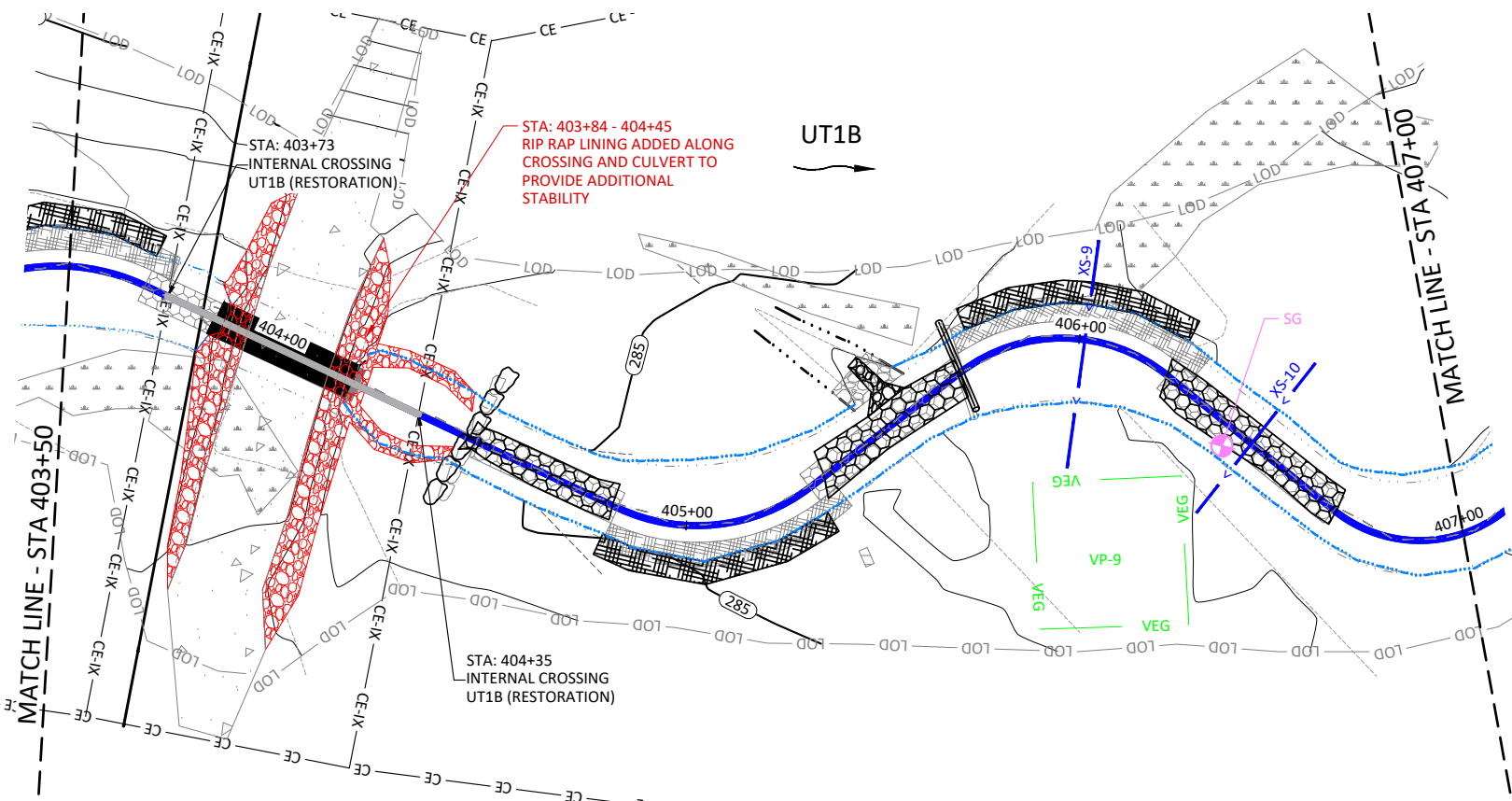
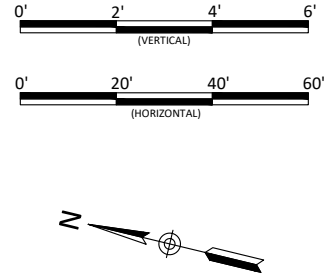
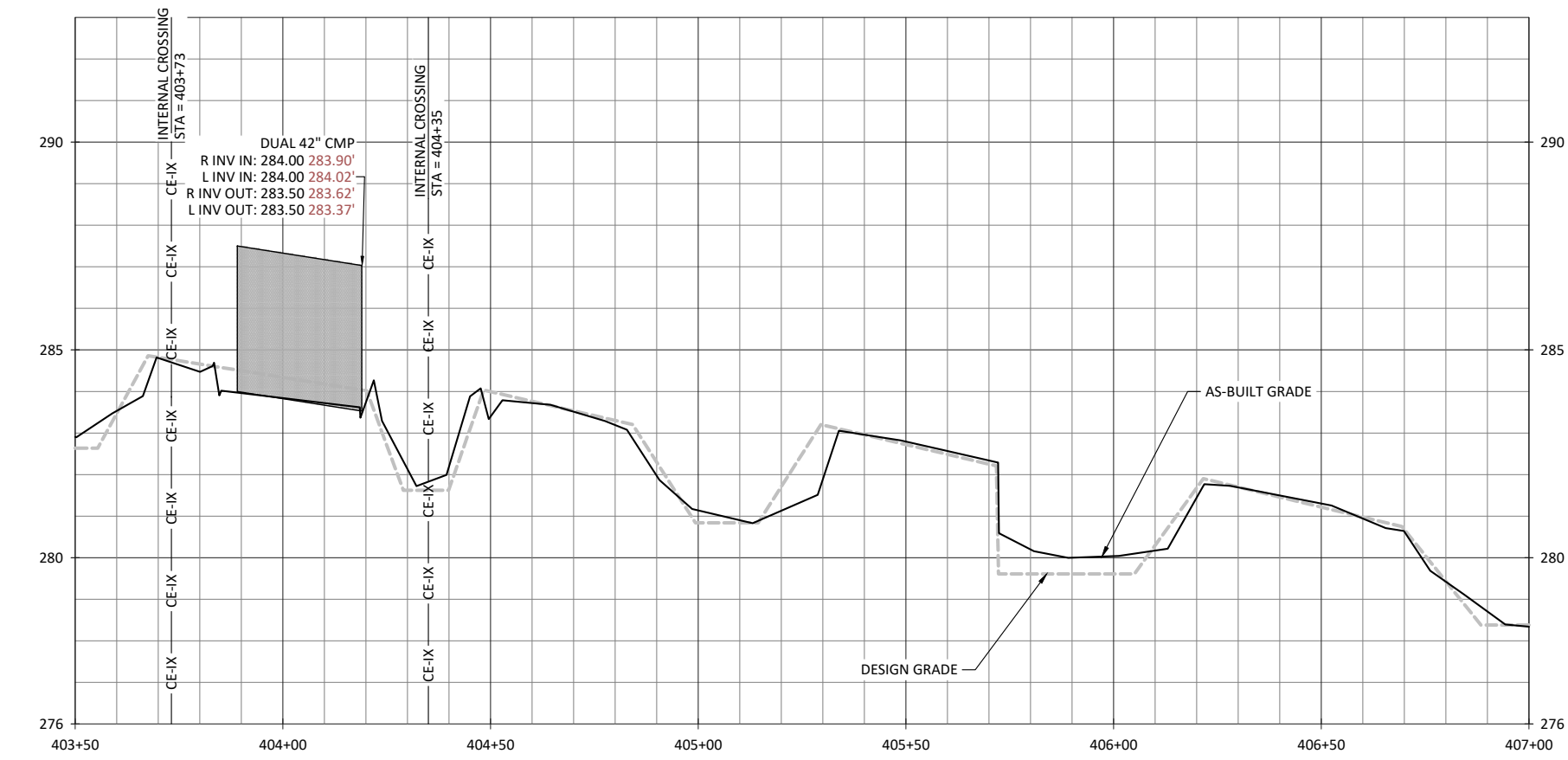


NOTES:
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Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.4.1



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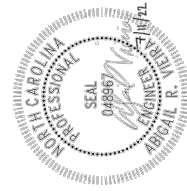
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Date: 07.11.2022
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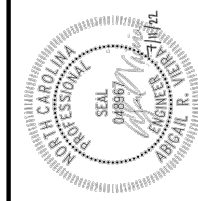
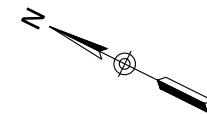
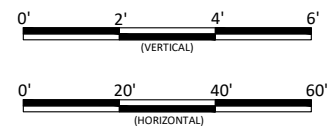
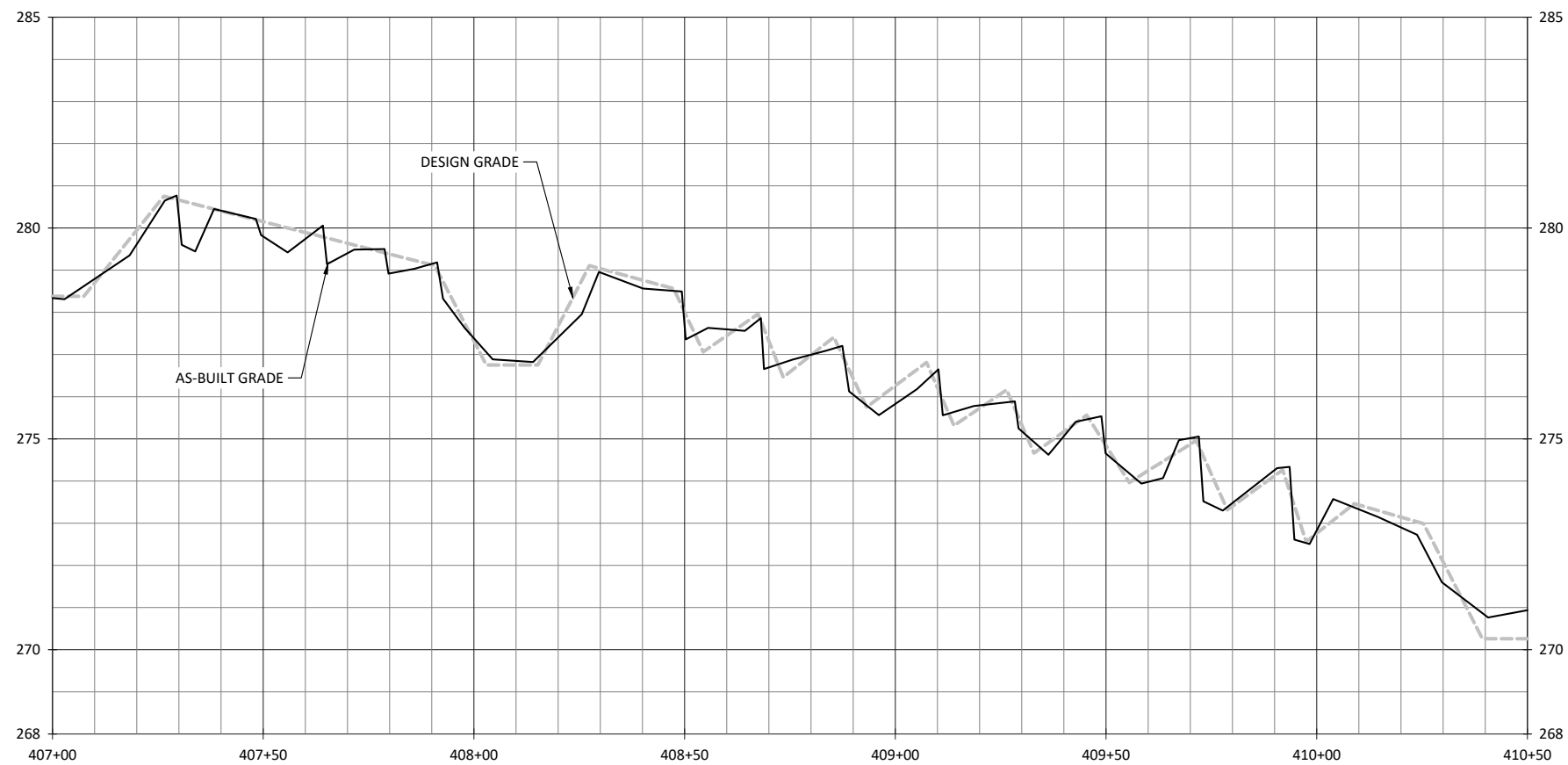
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Cross Creek Ranch Site
 Montgomery County, North Carolina
 UT1B
 Stream Plan and Profile

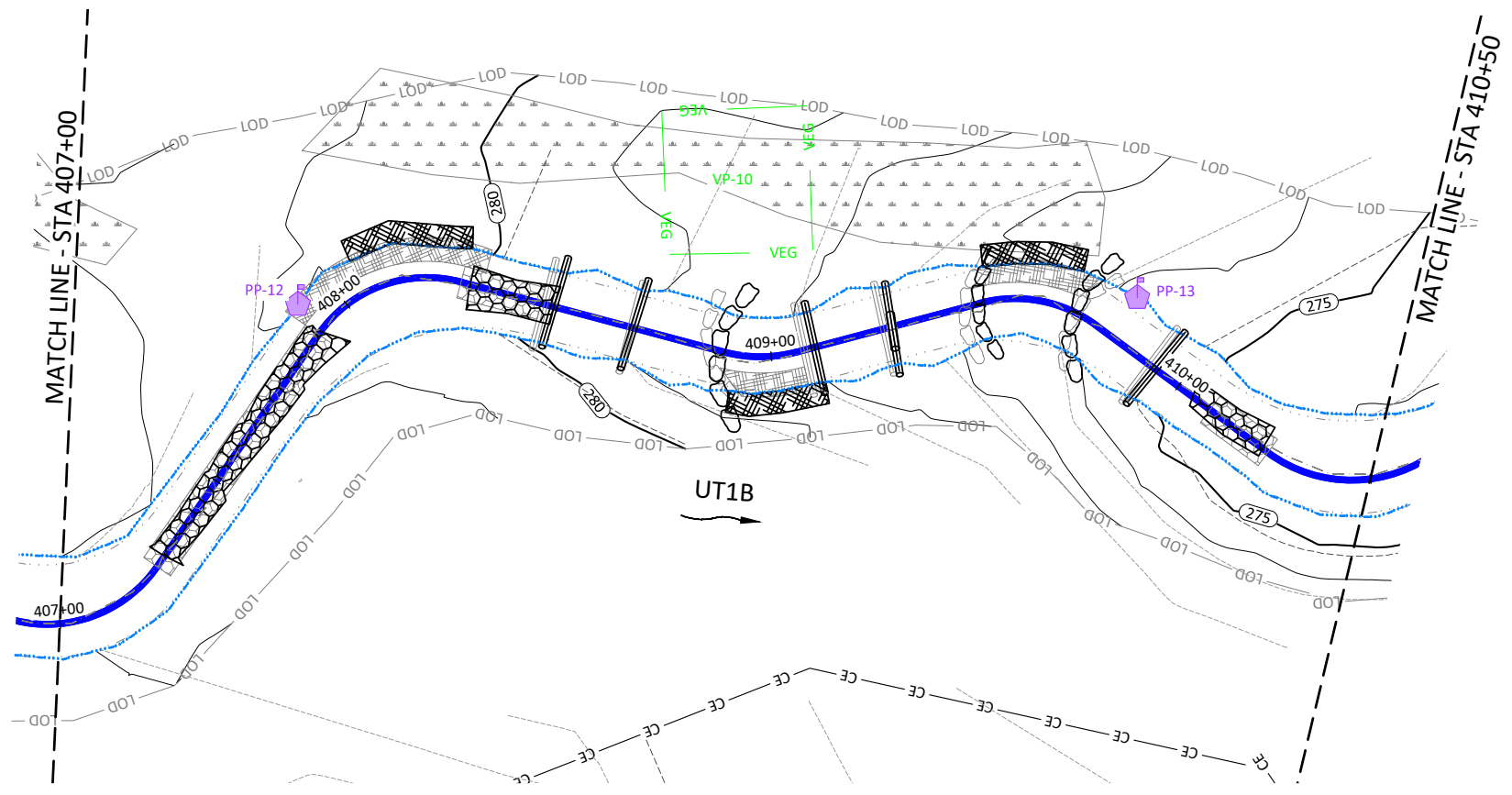


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UT1B
Stream Plan and Profile

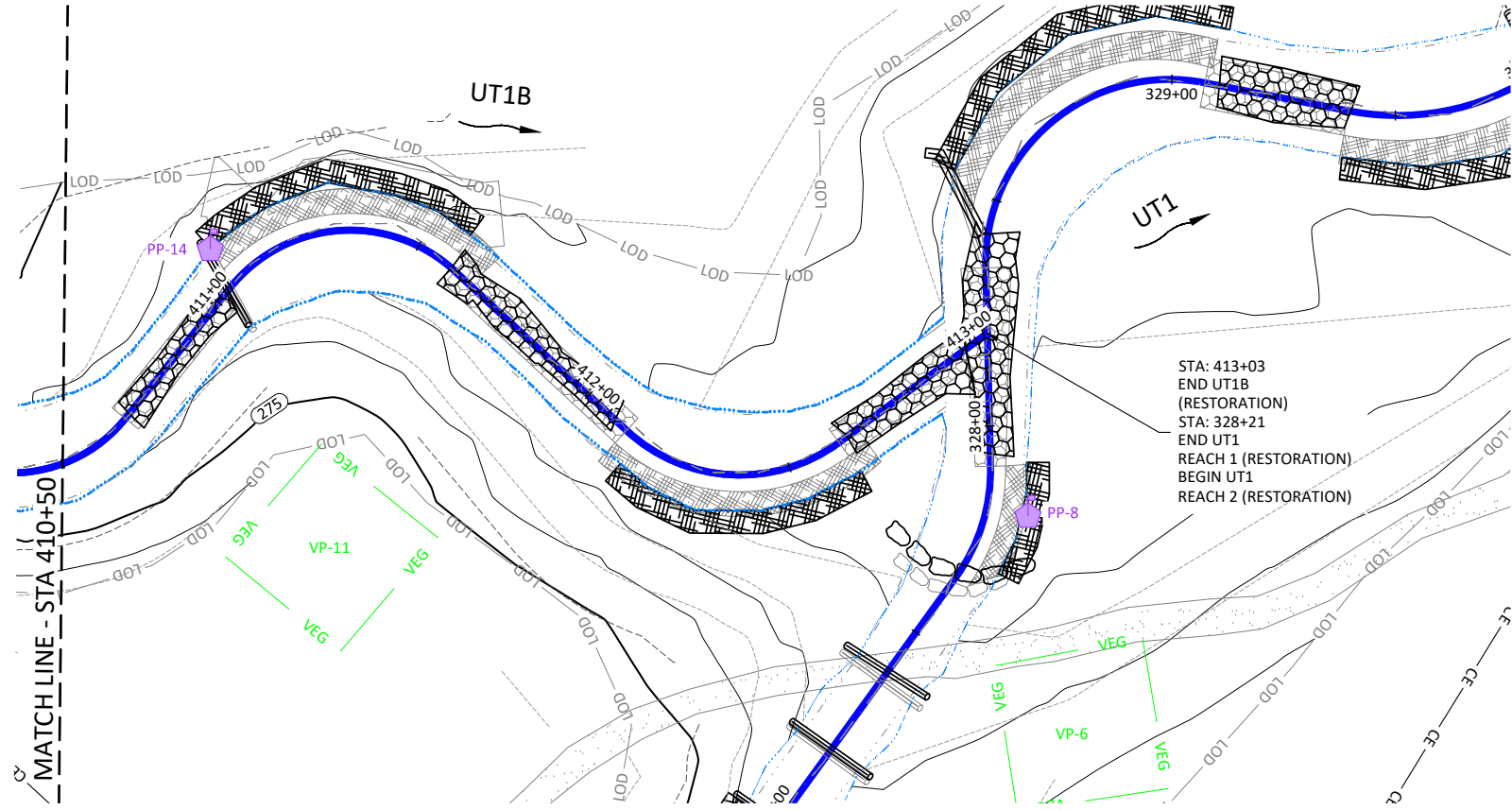
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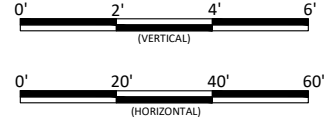
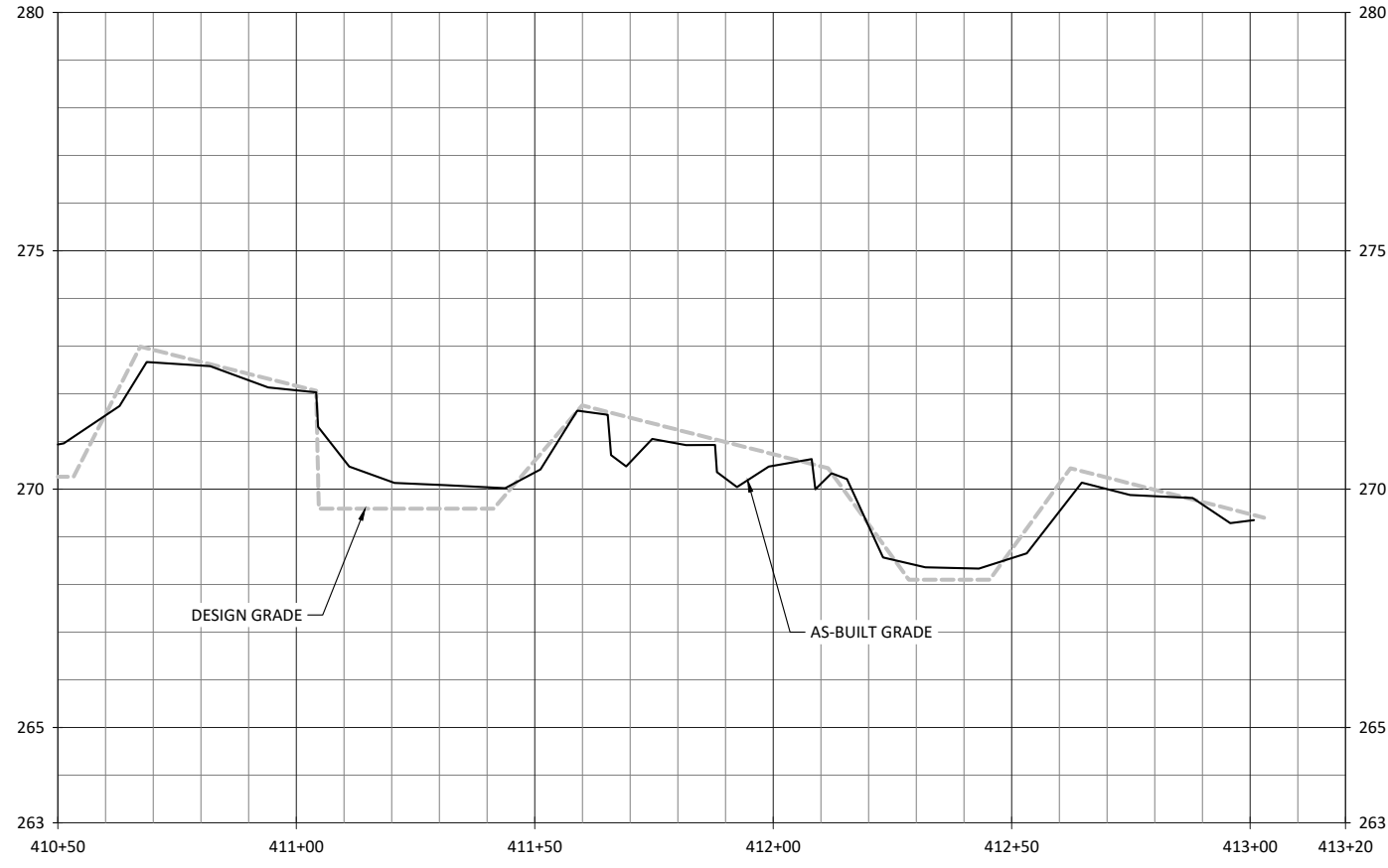
Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWW

1.4.3



- NOTES:
1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.
 2. AS-BUILT INFORMATION FOR UT1 IS ADDRESSED ON SHEETS 1.3.1 THROUGH 1.3.9



Revisions:

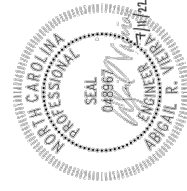
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 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

1.4.4

Sheet

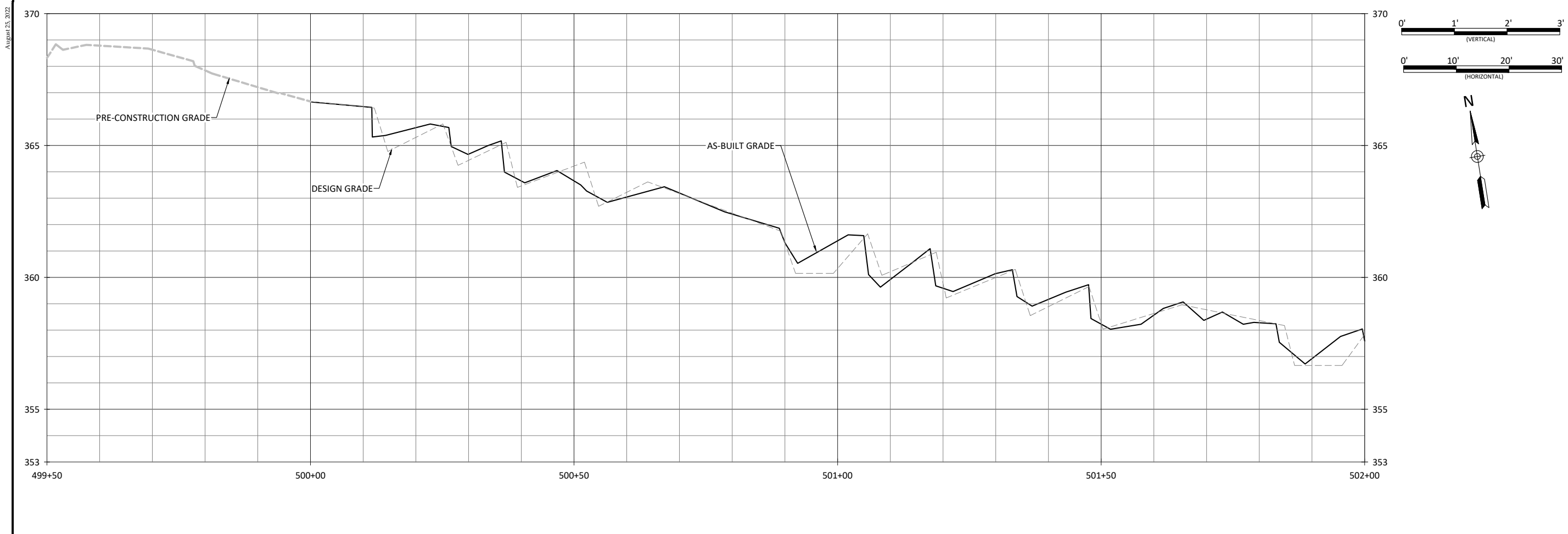
Cross Creek Ranch Site
 Montgomery County, North Carolina

UT1B
 Stream Plan and Profile

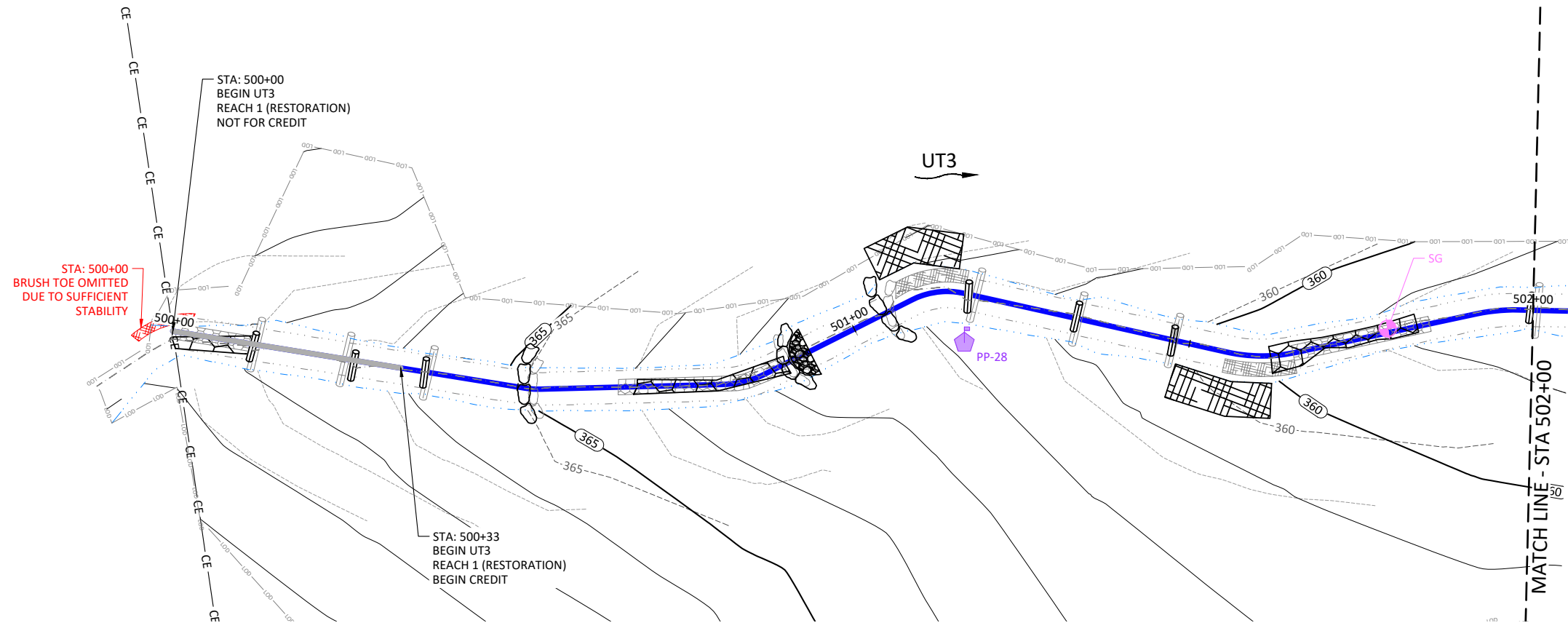


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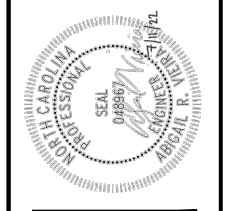


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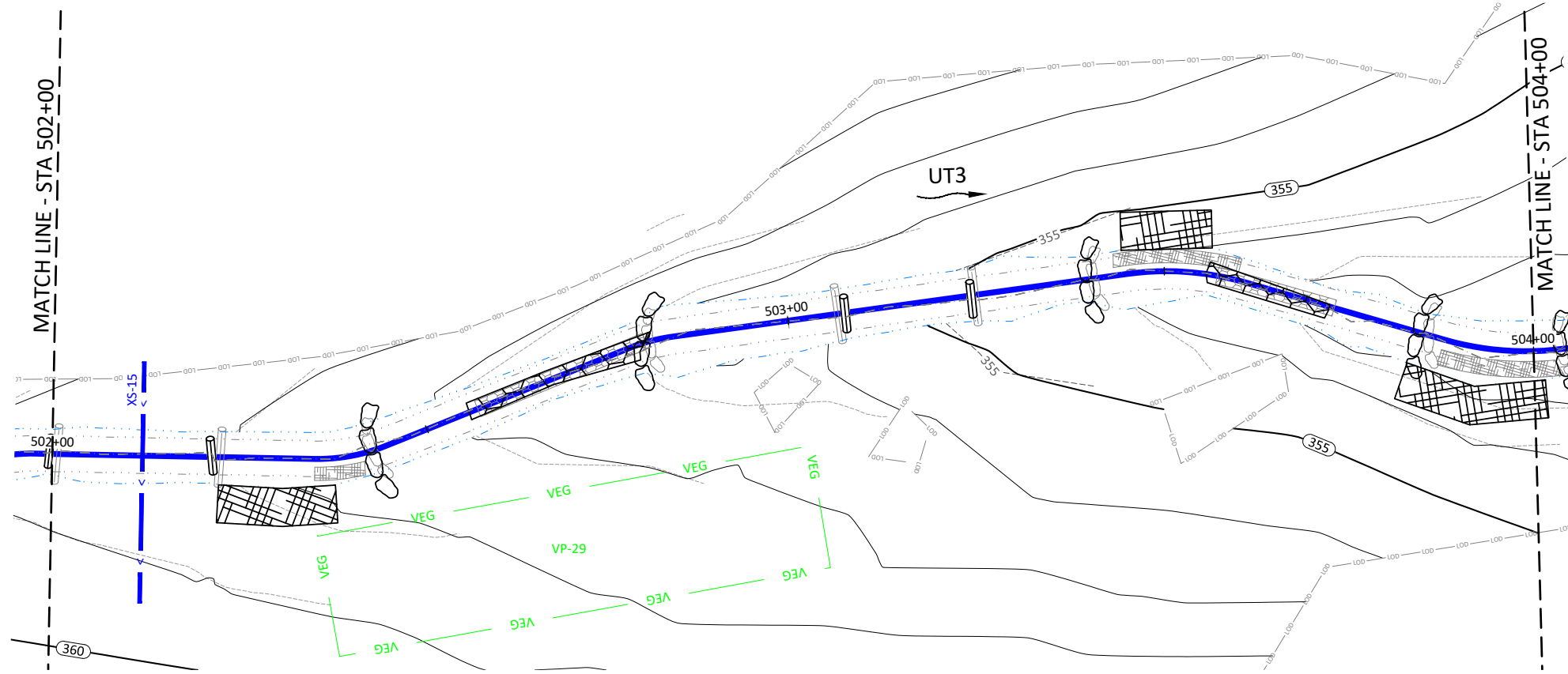
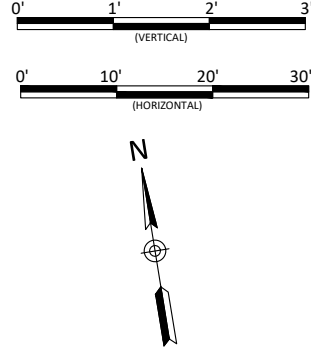
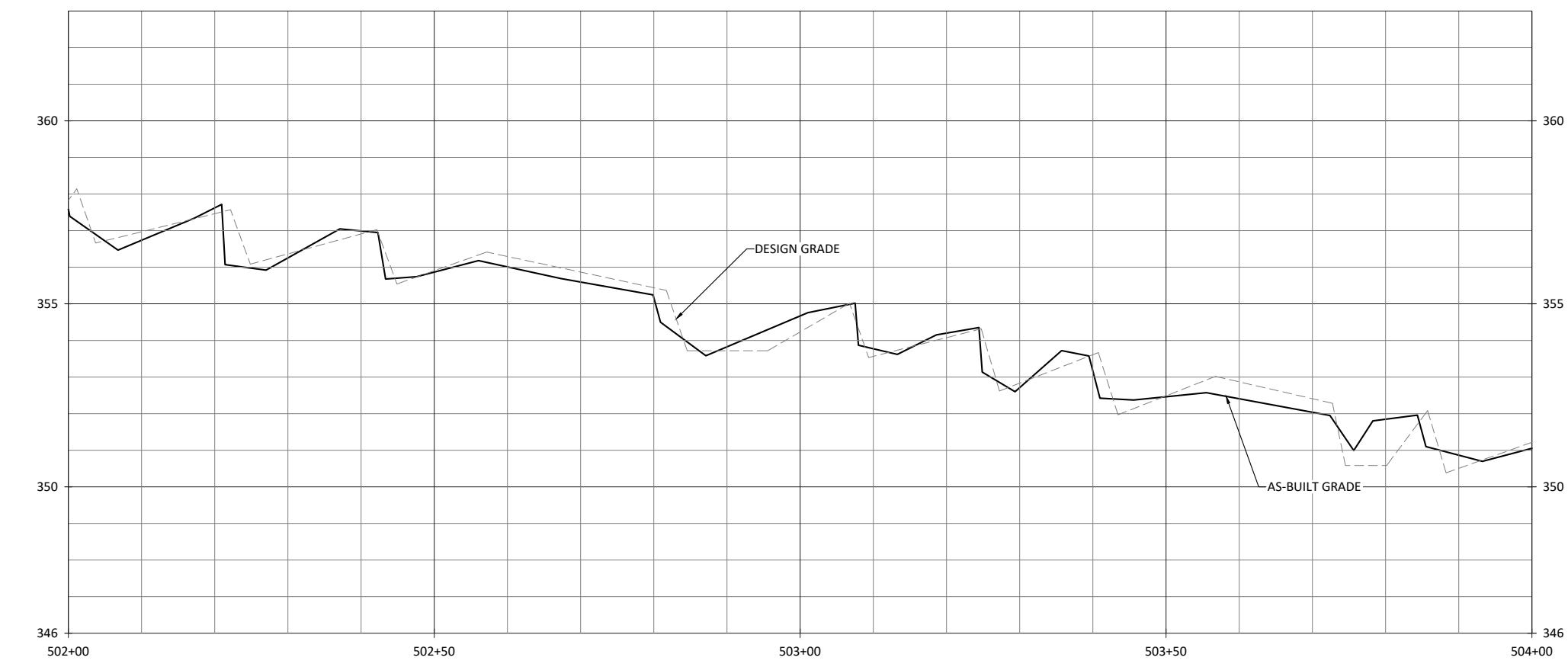
Cross Creek Ranch Site
 Montgomery County, North Carolina

UT3
 Stream Plan and Profile

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

1.5.1

Sheet



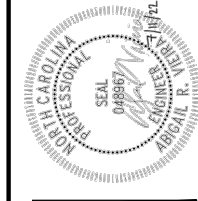
NOTES:
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Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

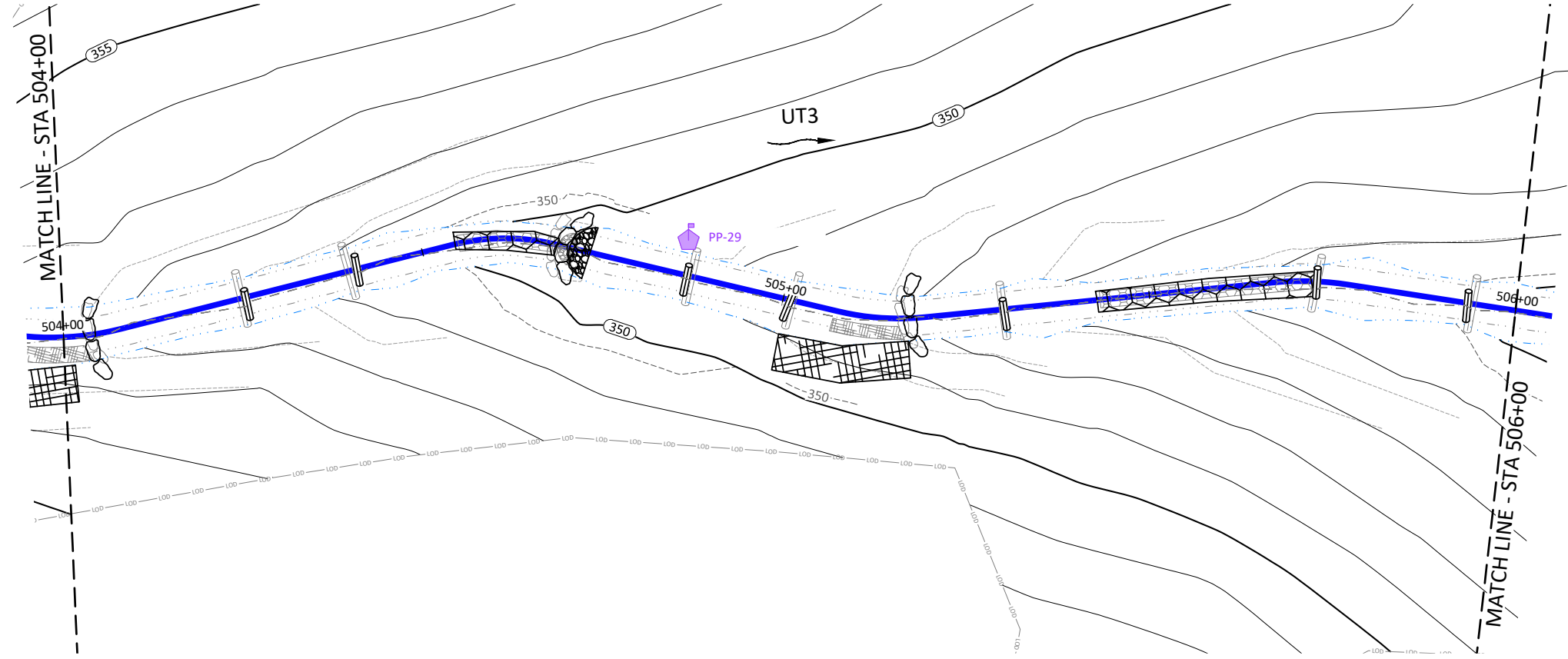
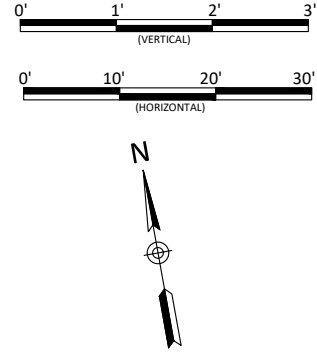
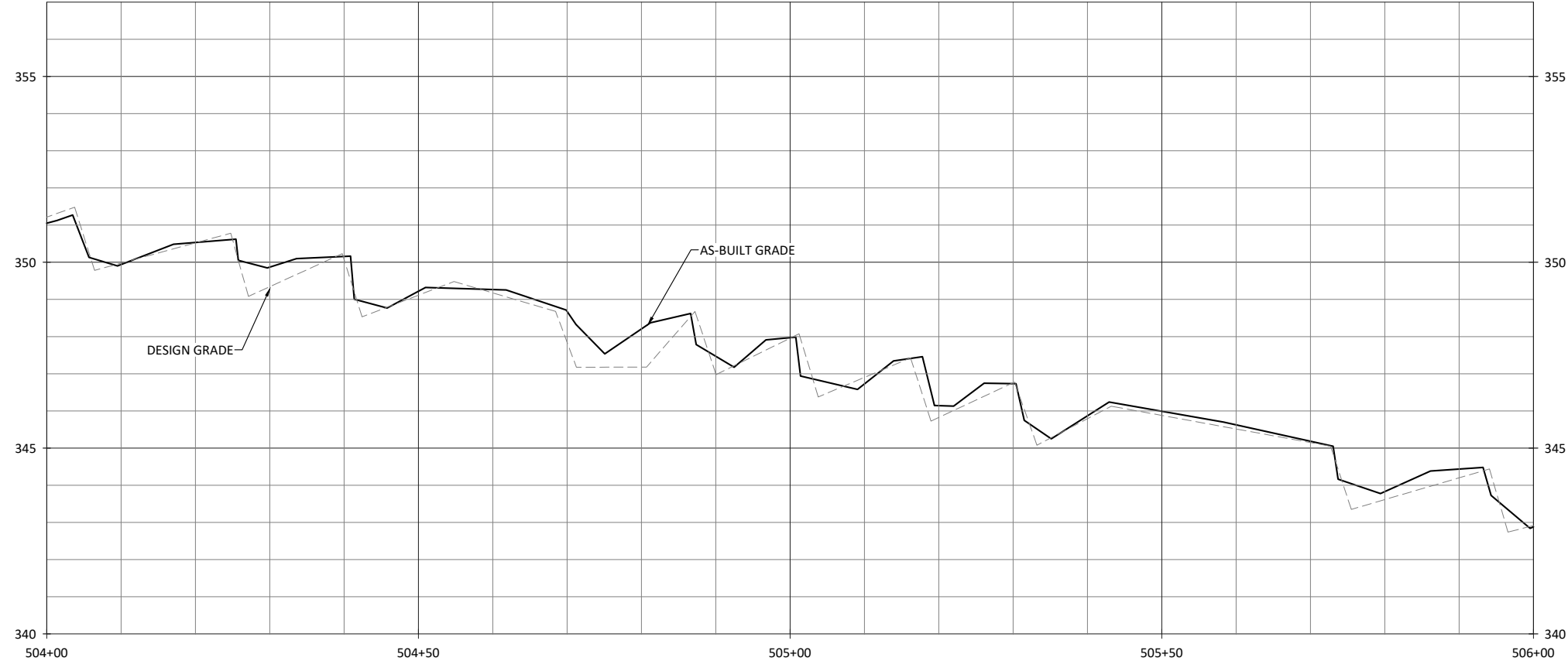
1.5.2

Sheet

Cross Creek Ranch Site
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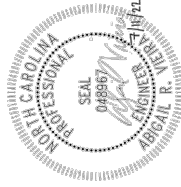
NOTES:
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Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

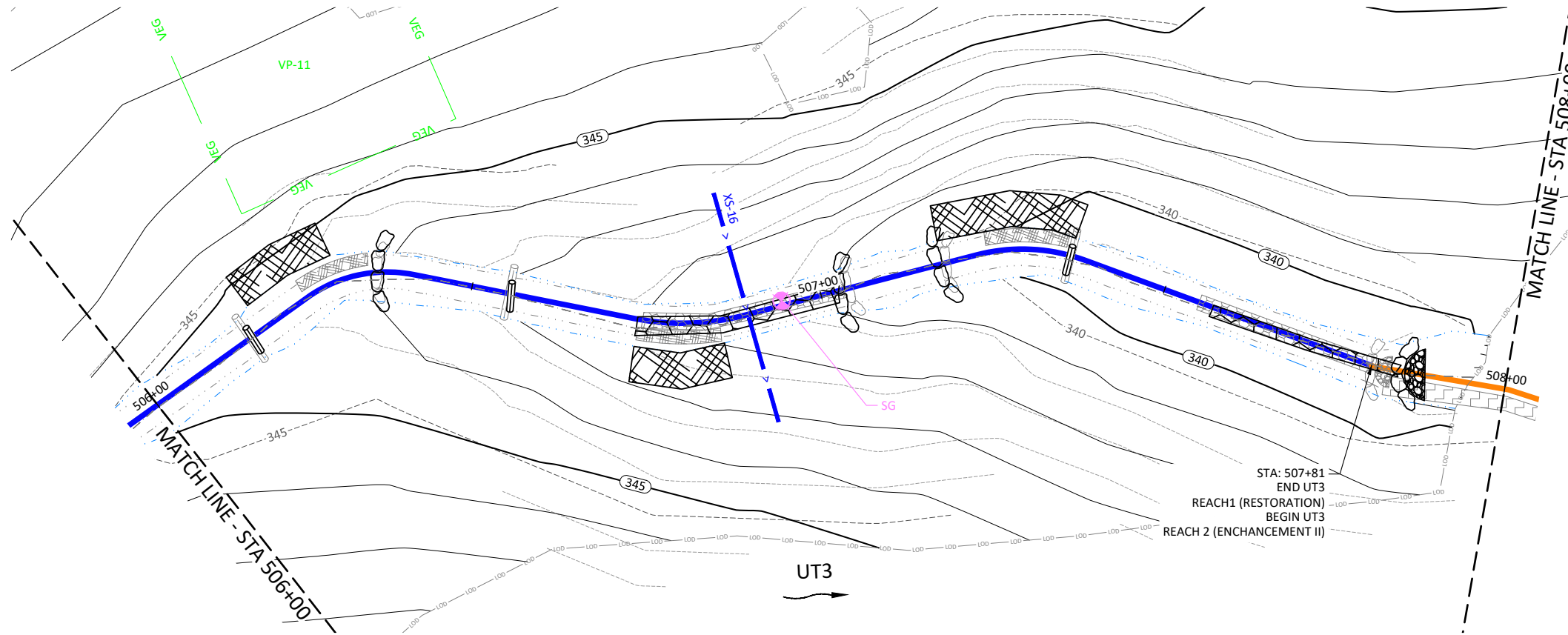
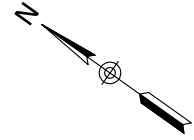
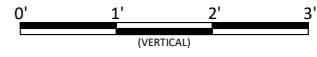
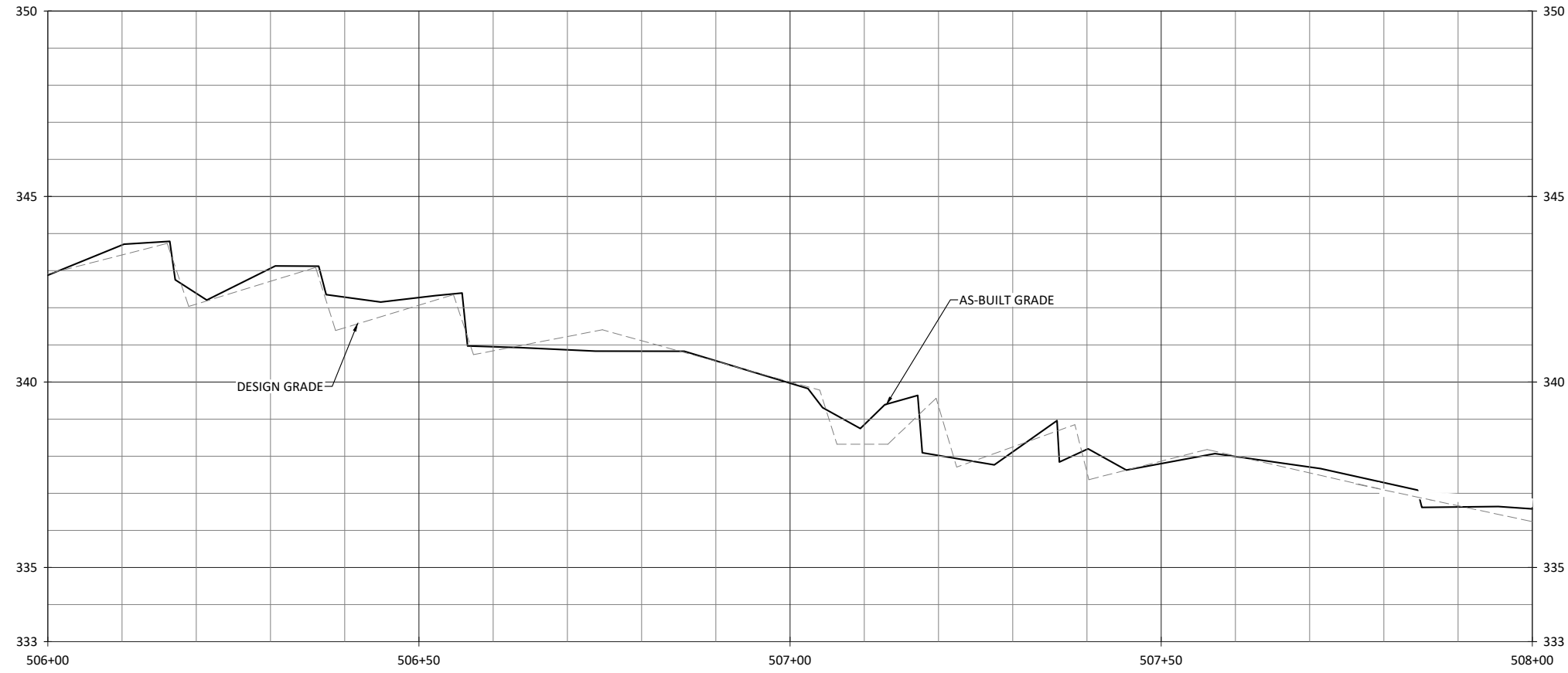
1.5.3

Sheet

Cross Creek Ranch Site
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UT3
Stream Plan and Profile



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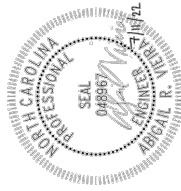
Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

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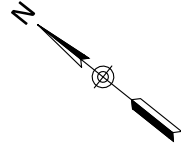
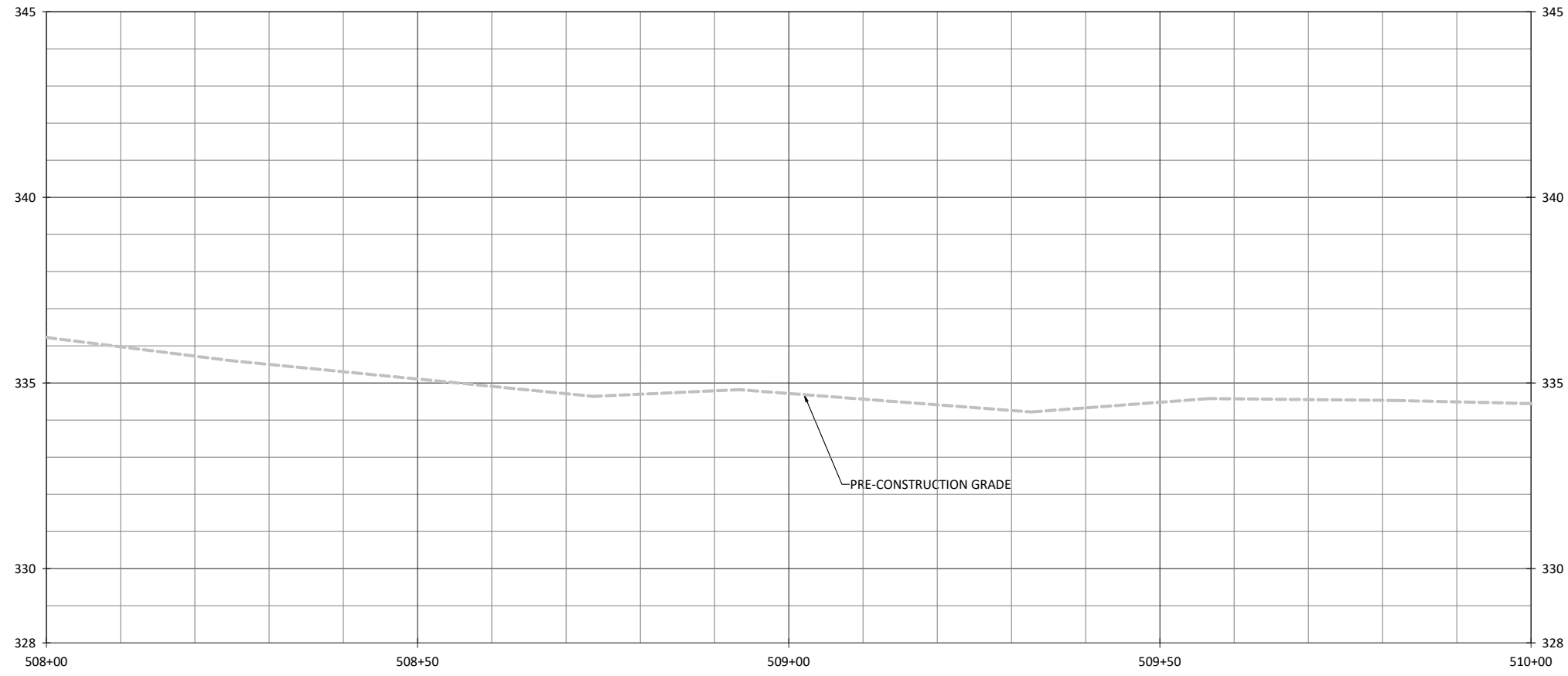
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Cross Creek Ranch Site
Montgomery County, North Carolina

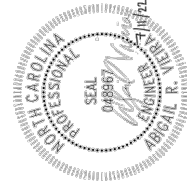
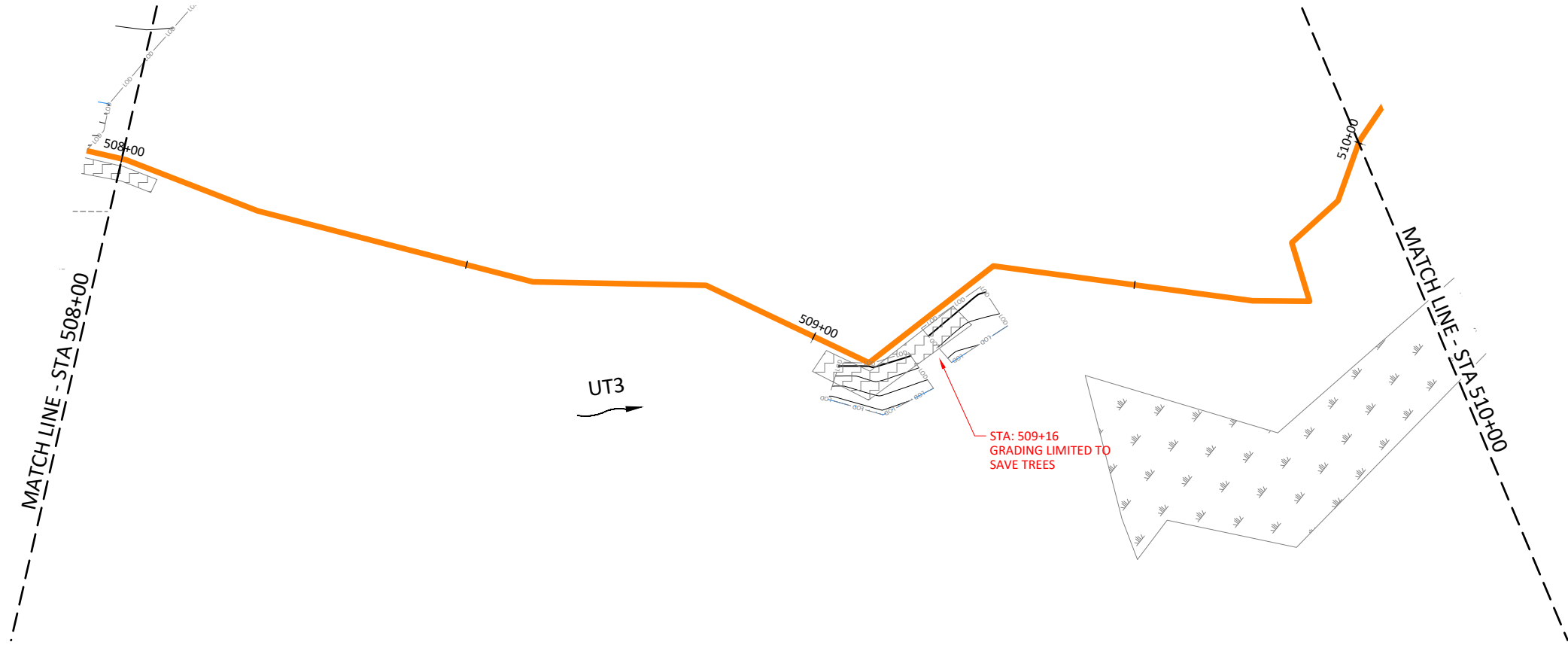
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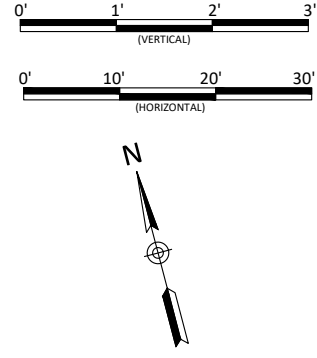
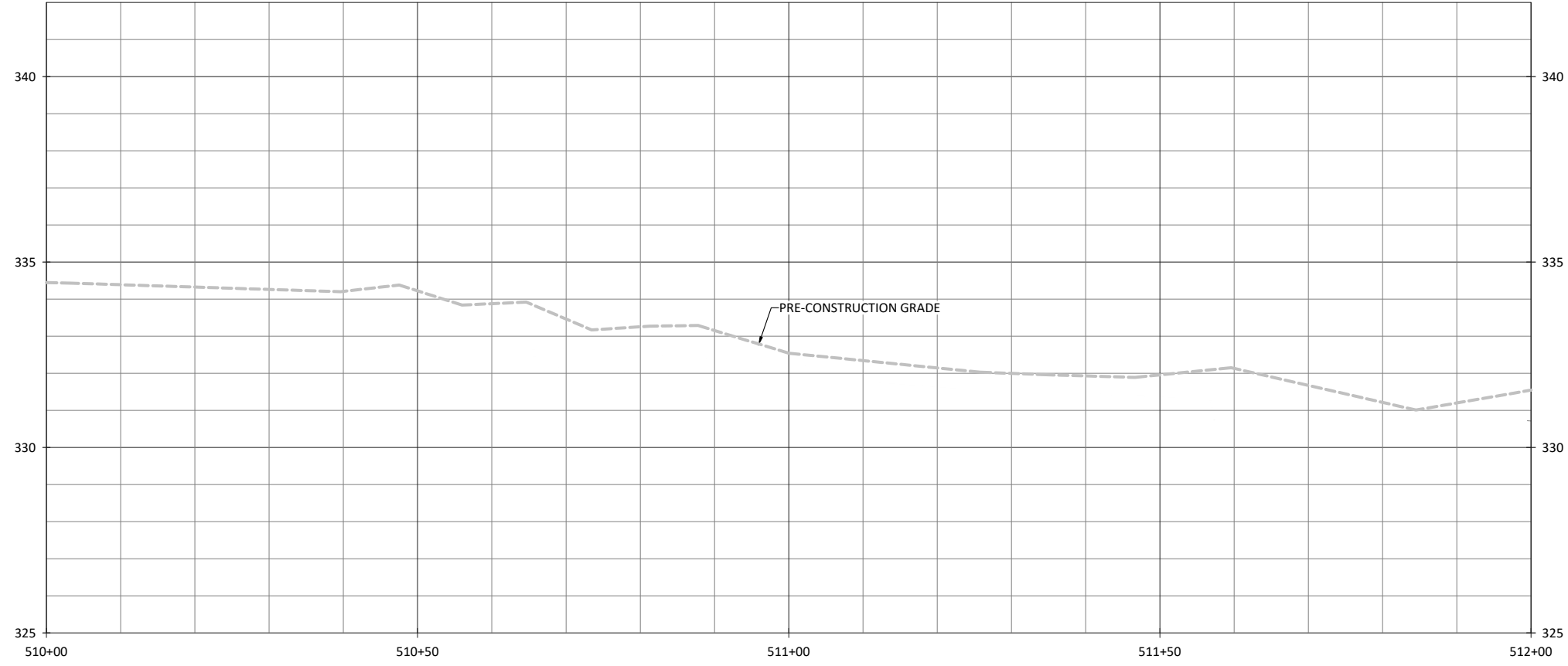
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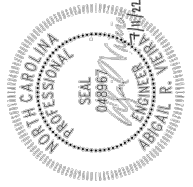
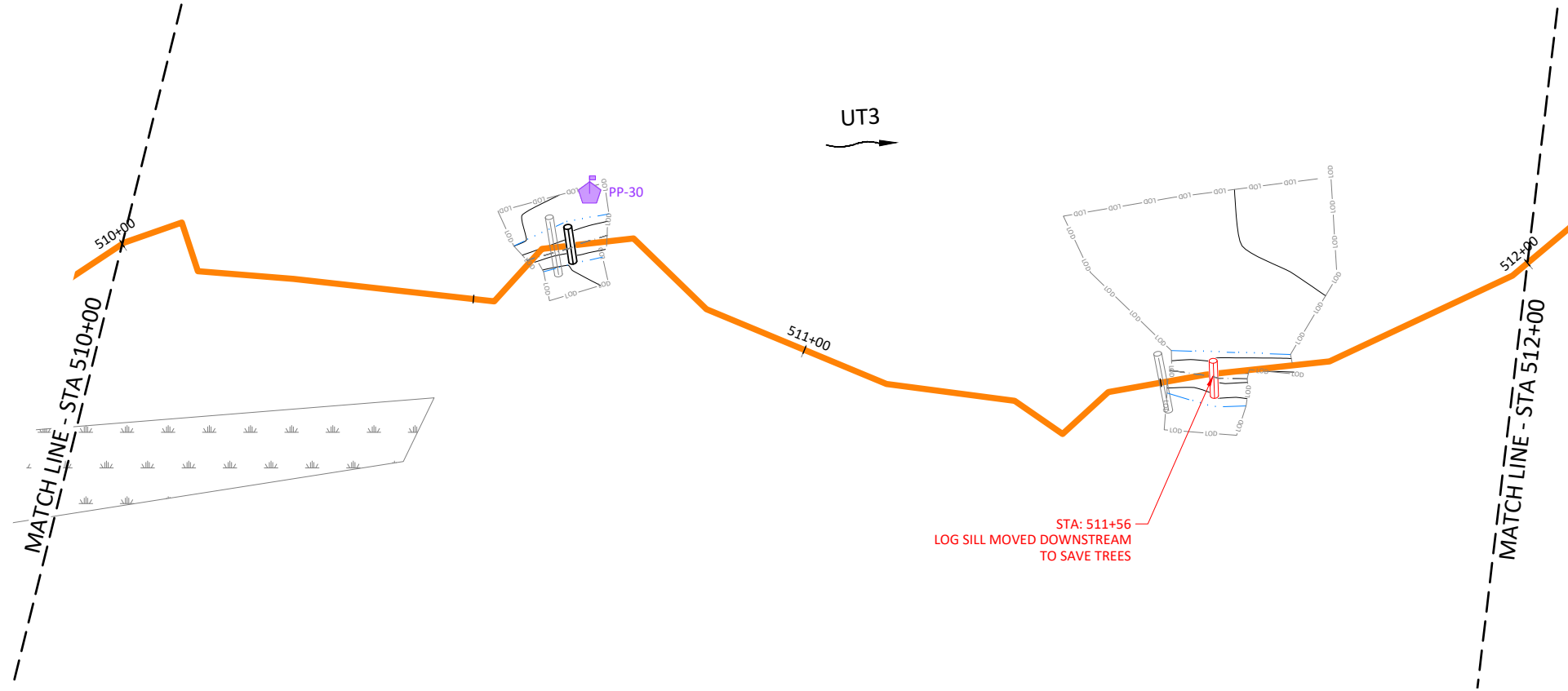
Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.5.5



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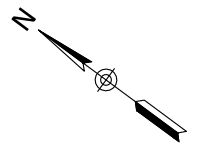
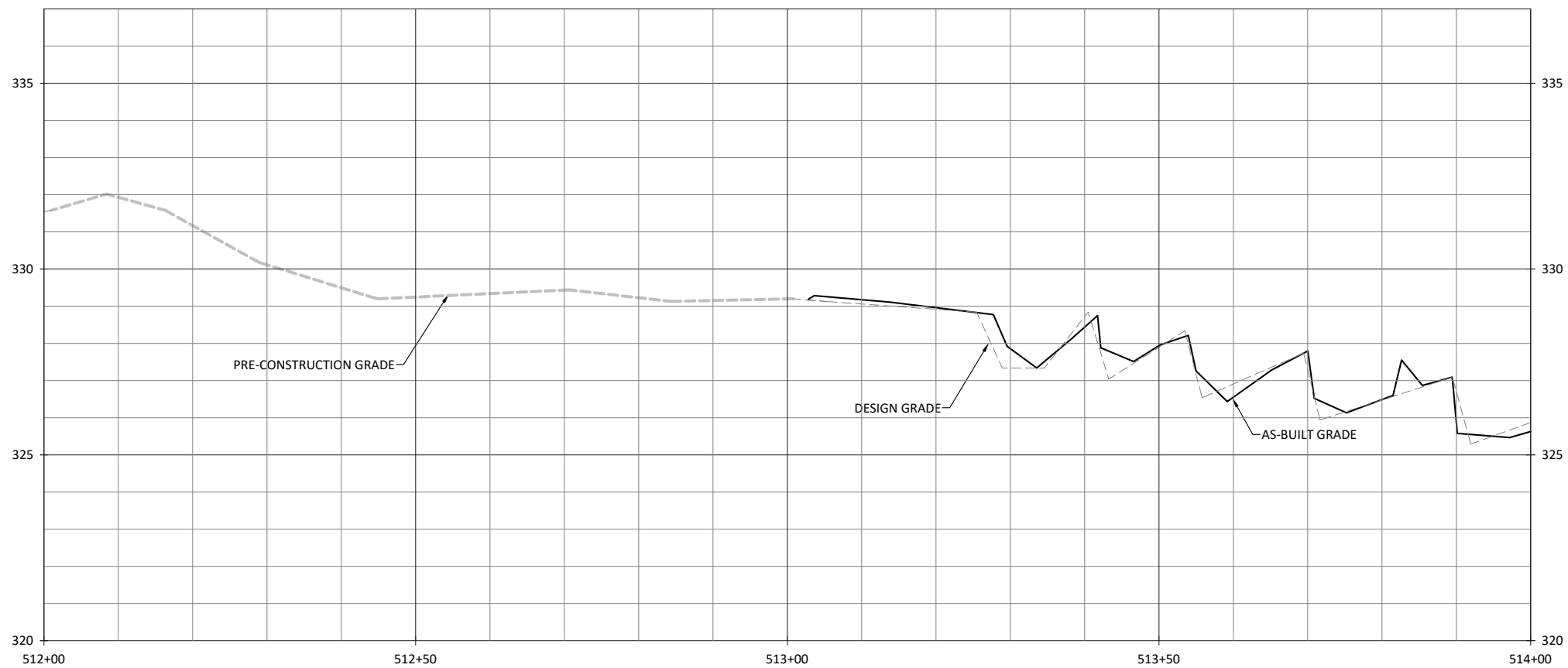
Cross Creek Ranch Site
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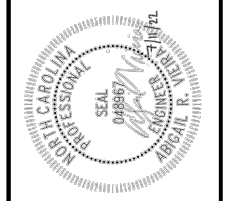
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 Job Number: 005-02186
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 Drawn By: FHM
 Checked By: TWV

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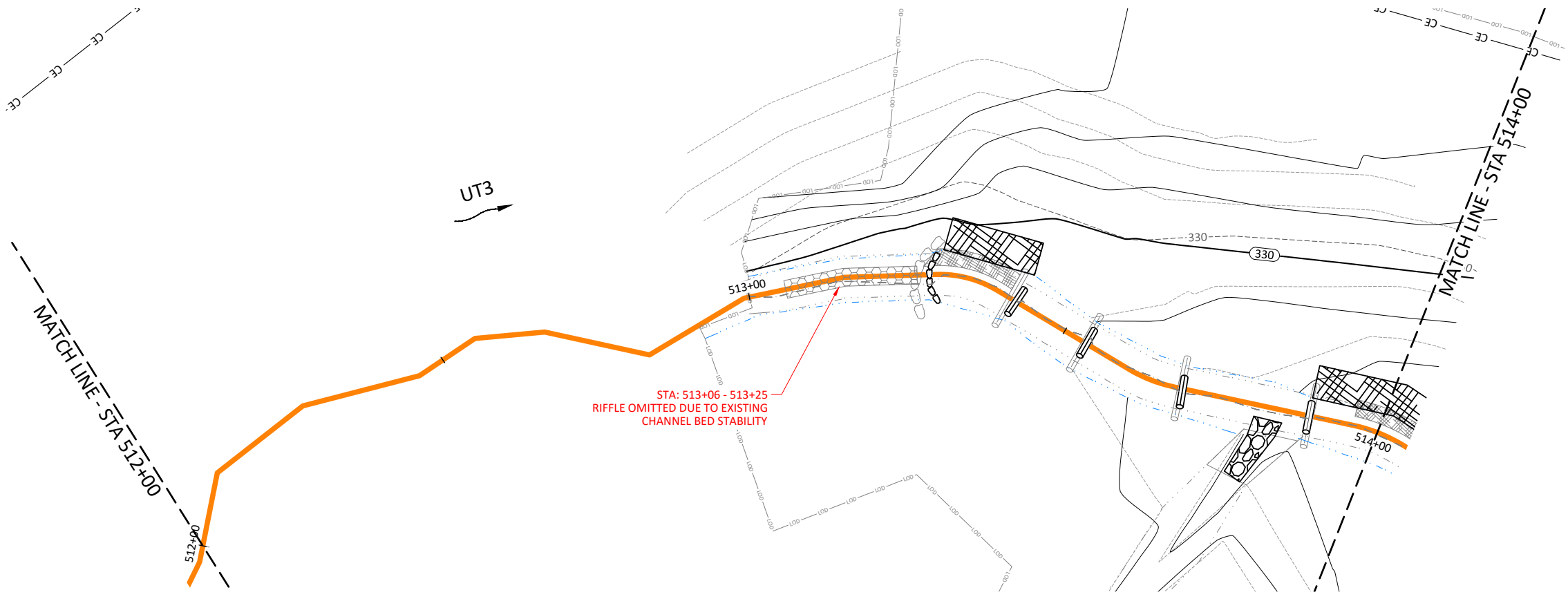


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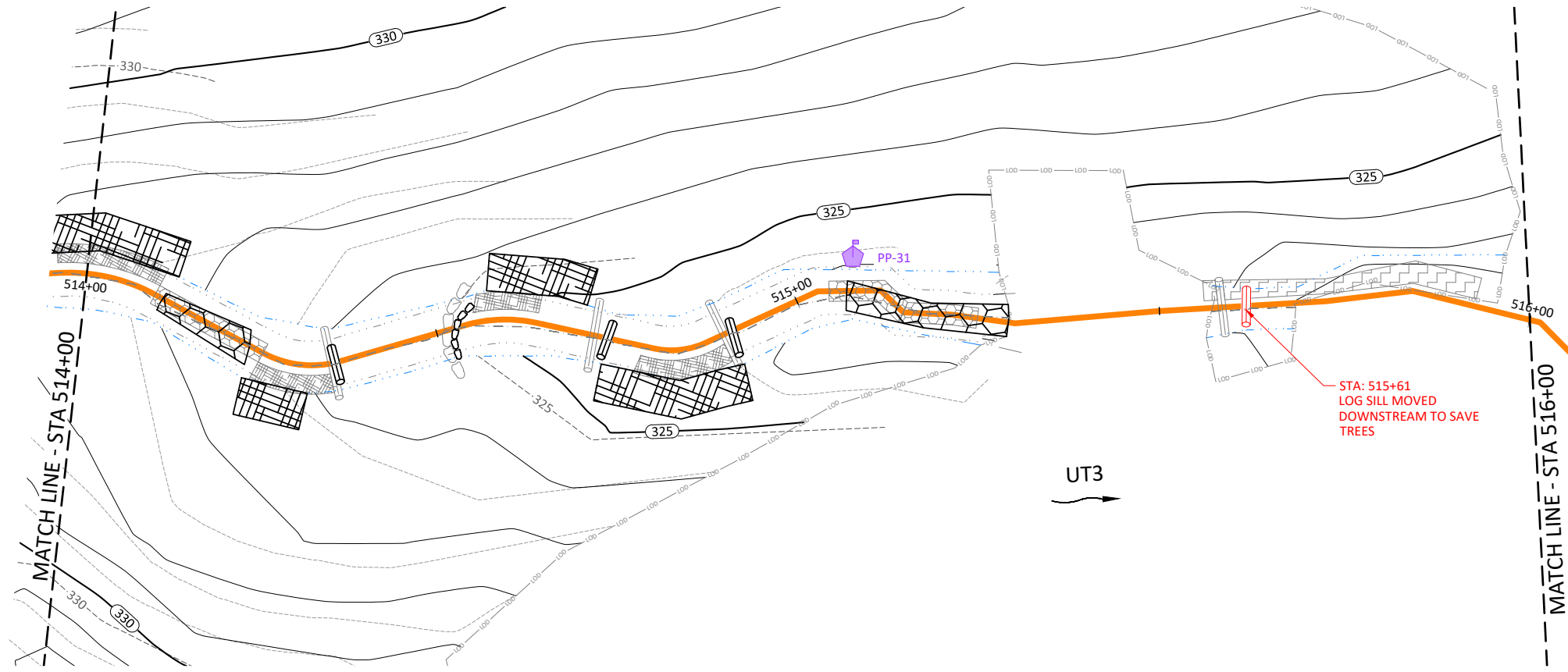
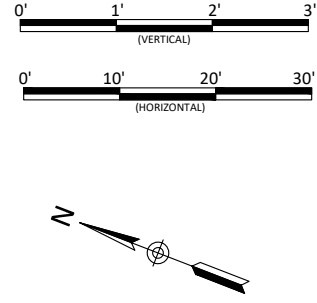
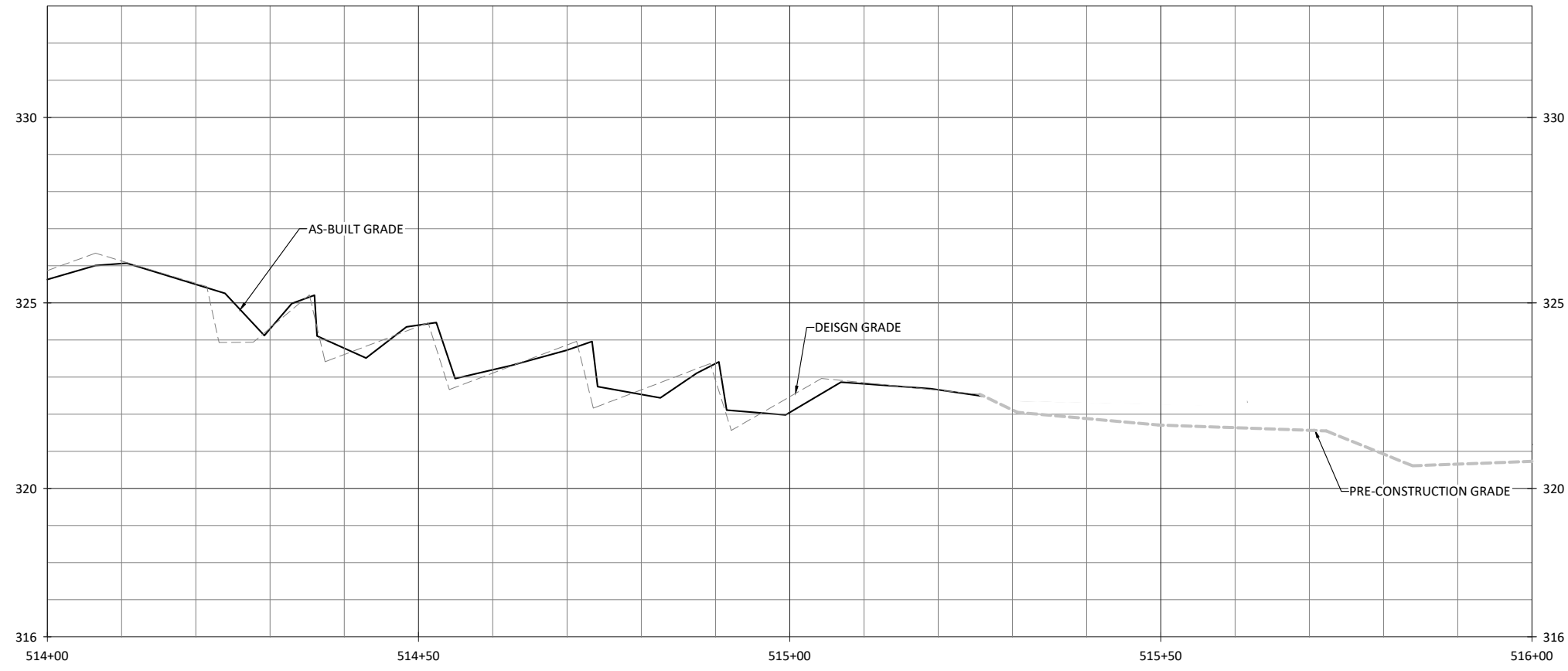
NOTES:
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Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.5.7



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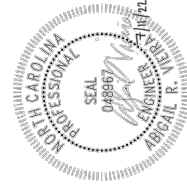
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 Drawn By: FHM
 Checked By: TWV

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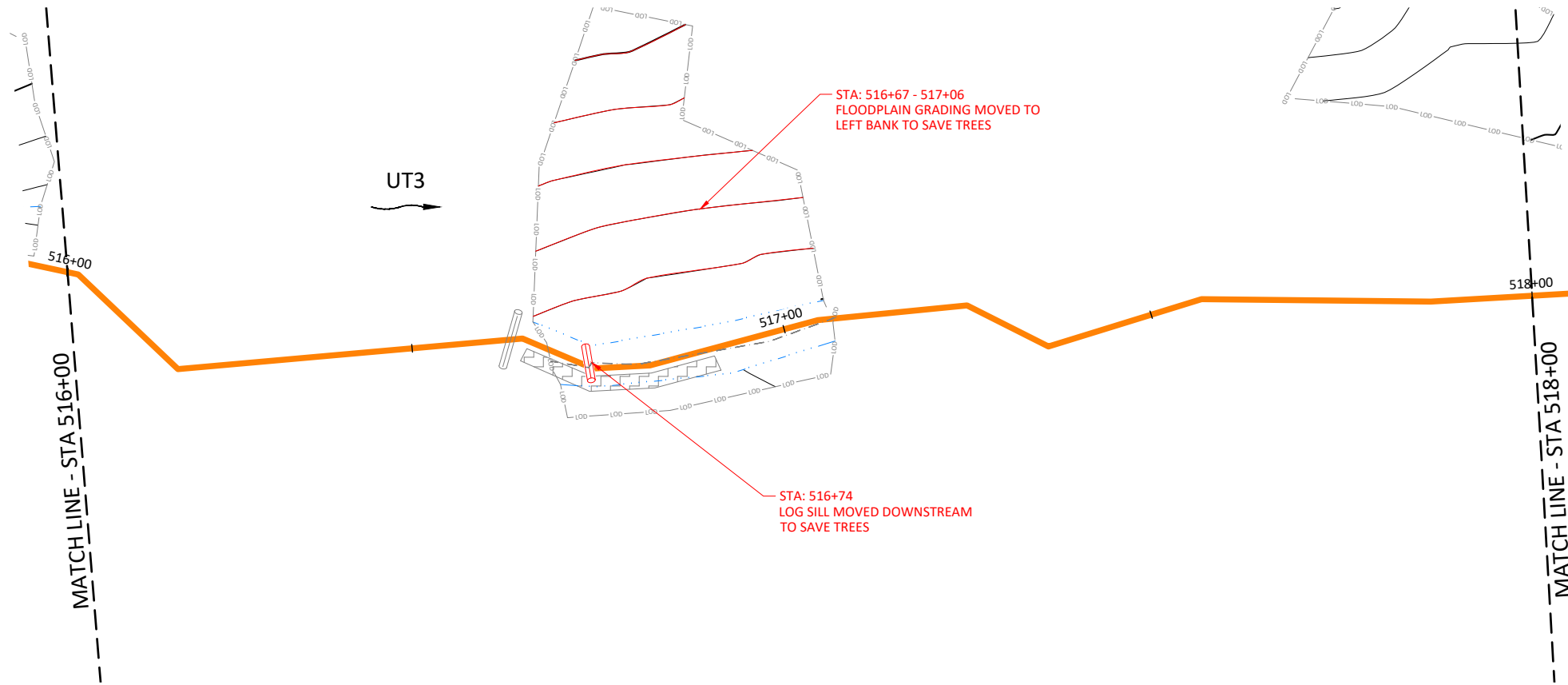
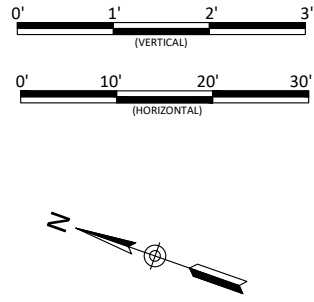
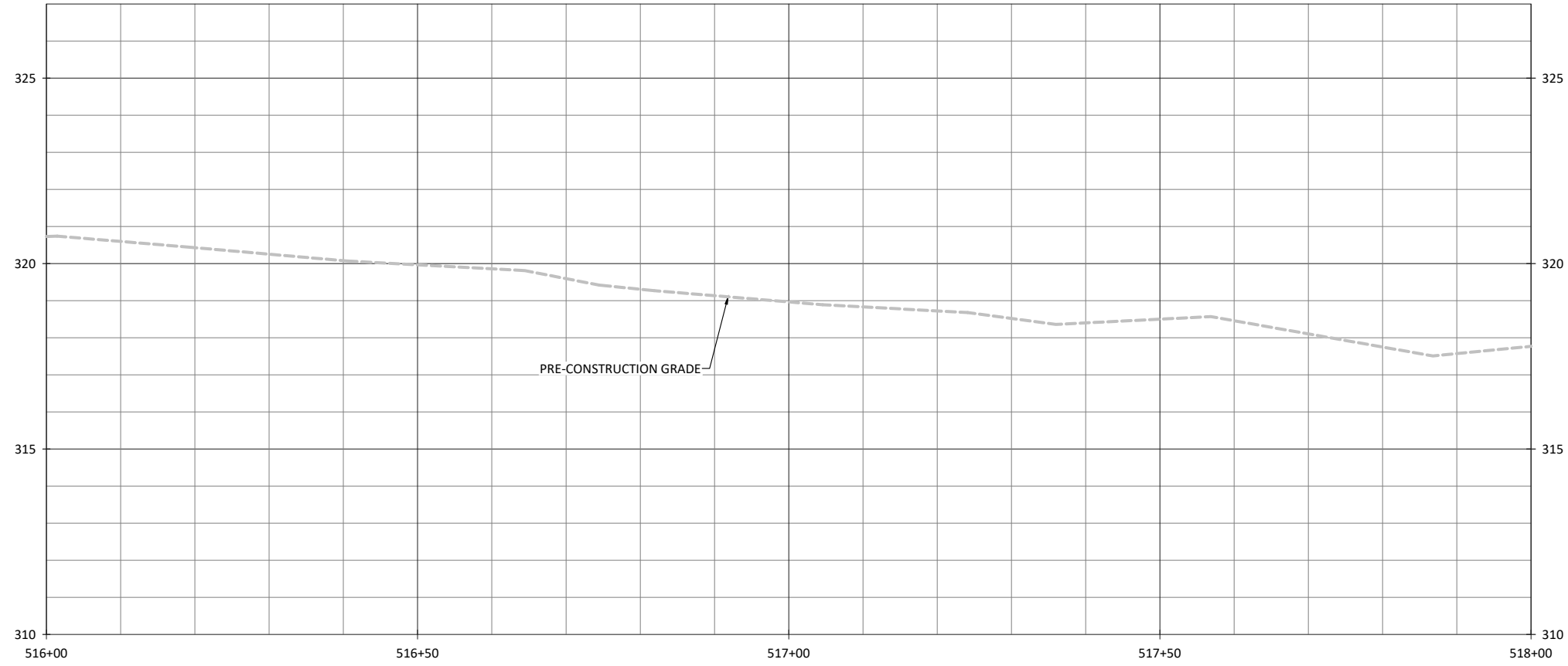
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Cross Creek Ranch Site
 Montgomery County, North Carolina

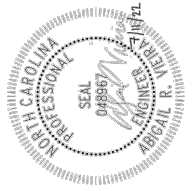
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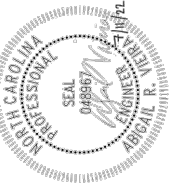
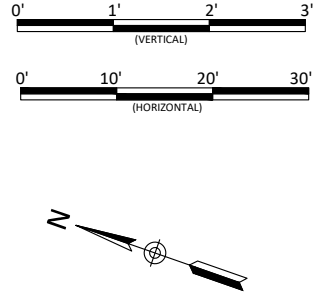
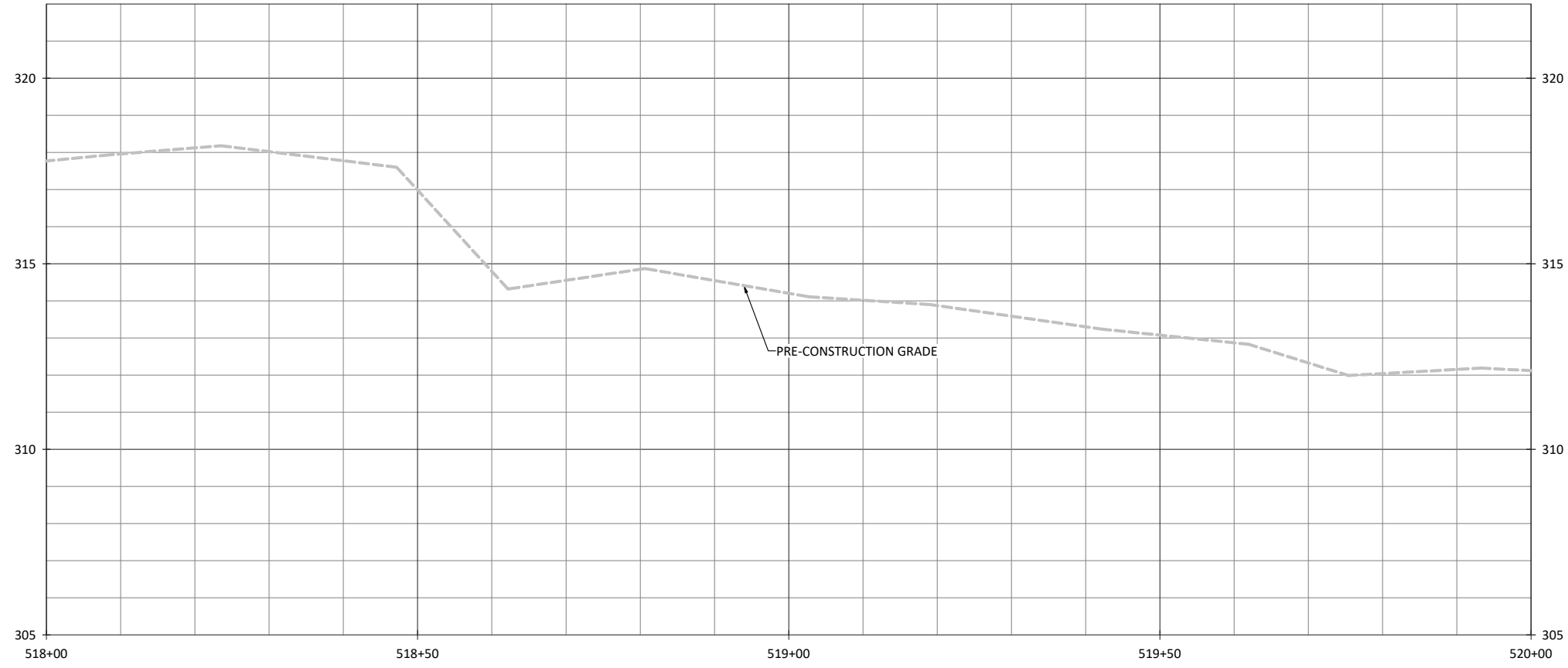
Cross Creek Ranch Site
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Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

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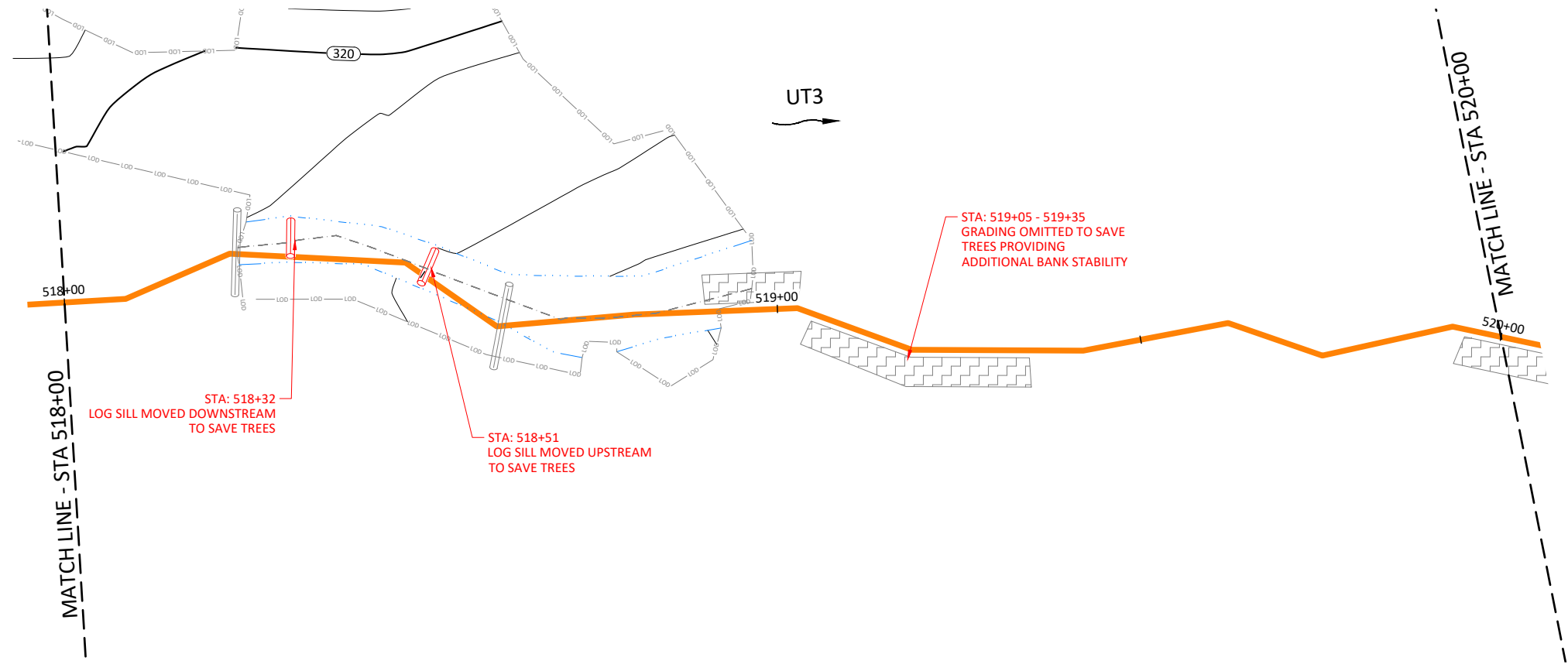
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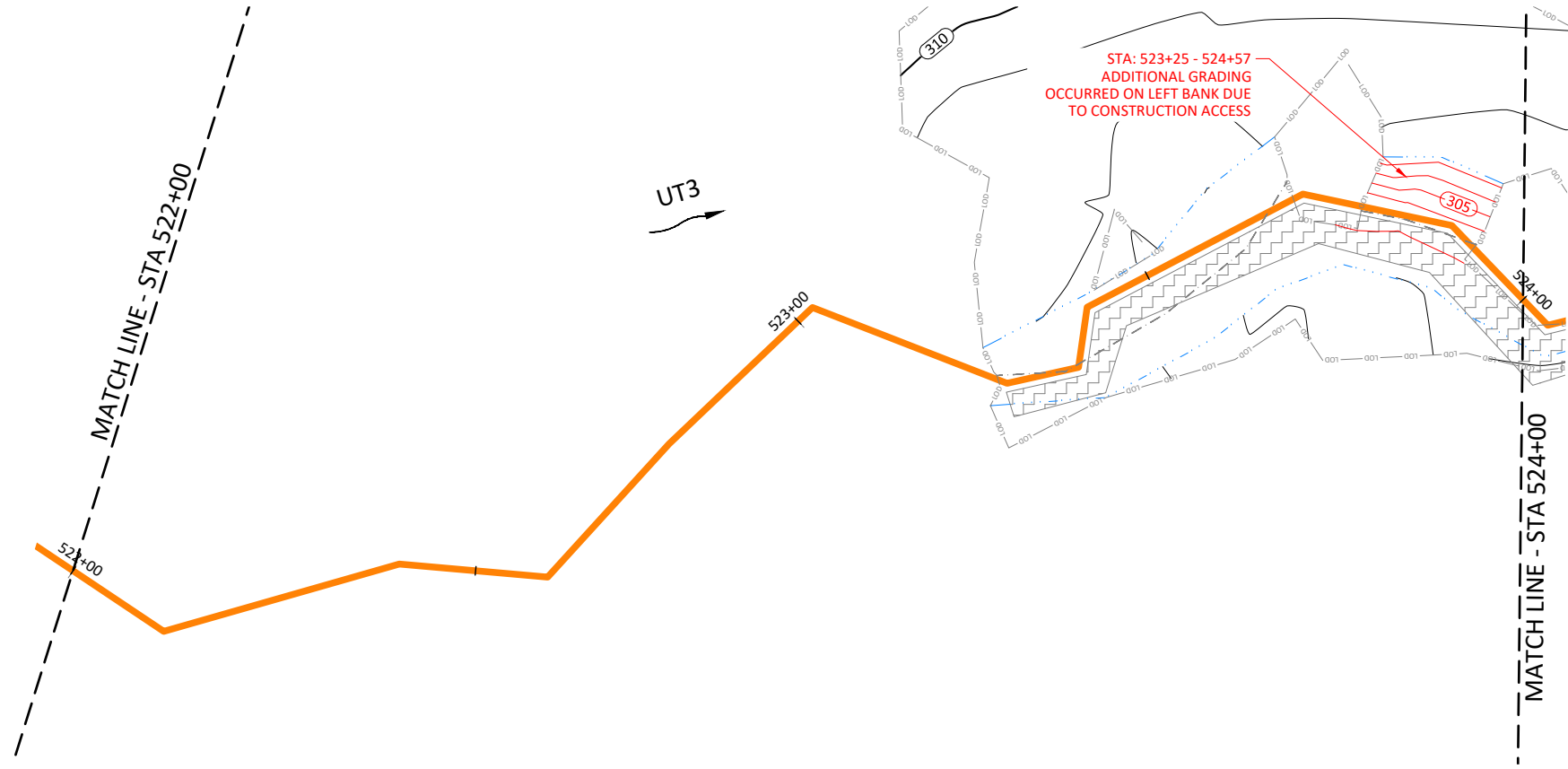
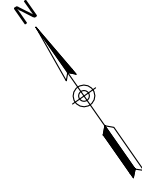
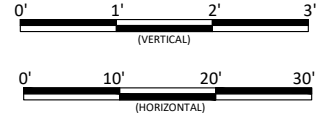
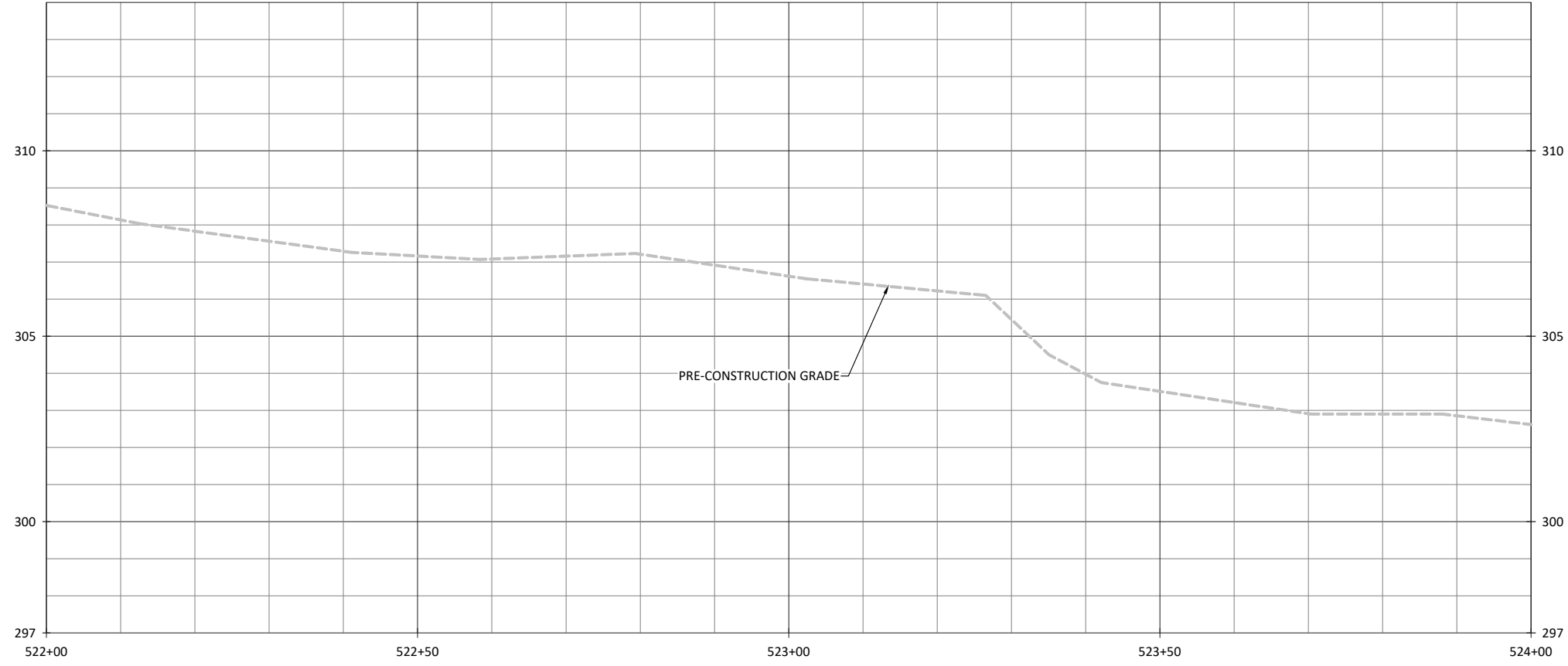
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Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

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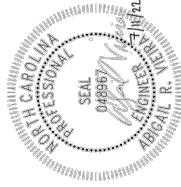
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Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

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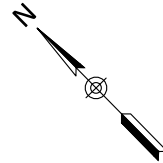
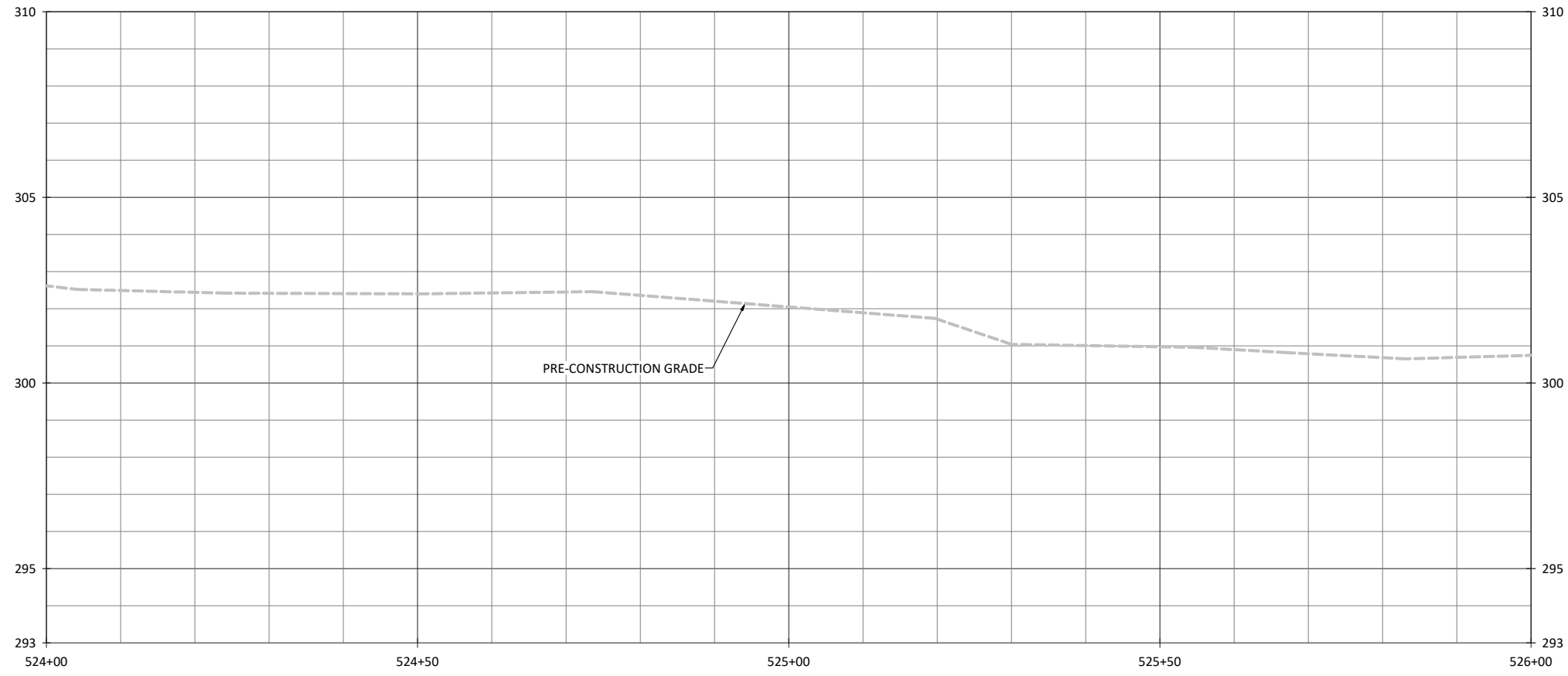
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Montgomery County, North Carolina

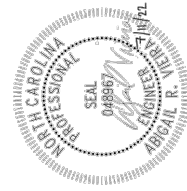
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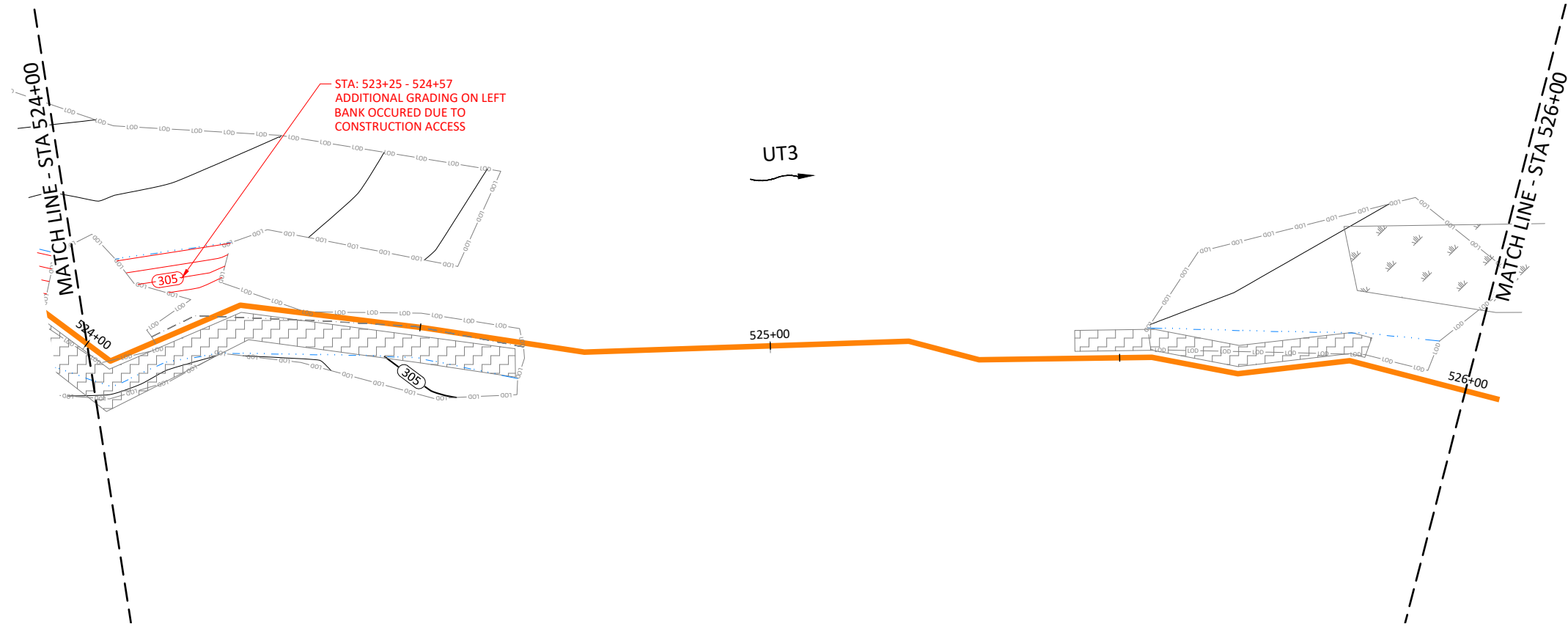
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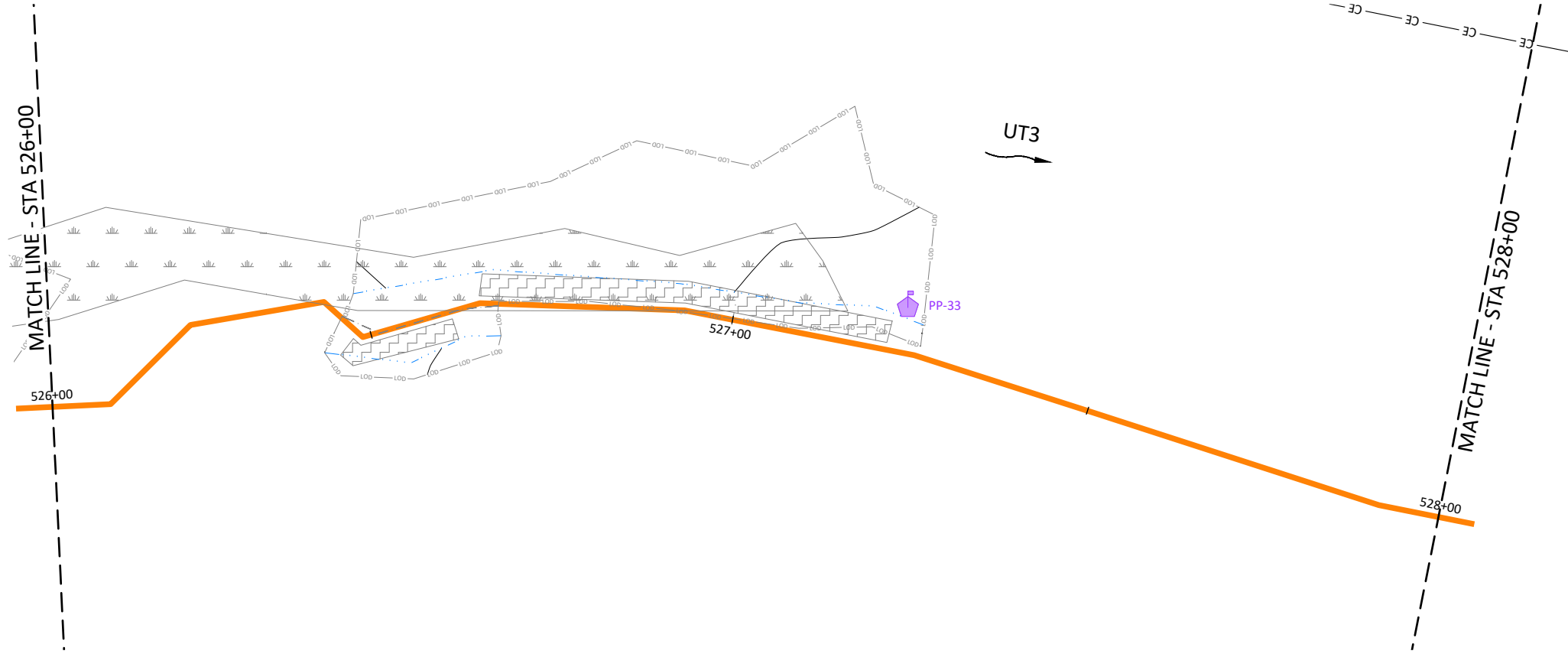
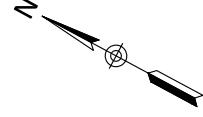
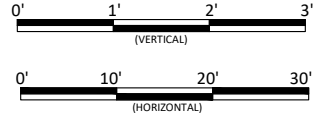
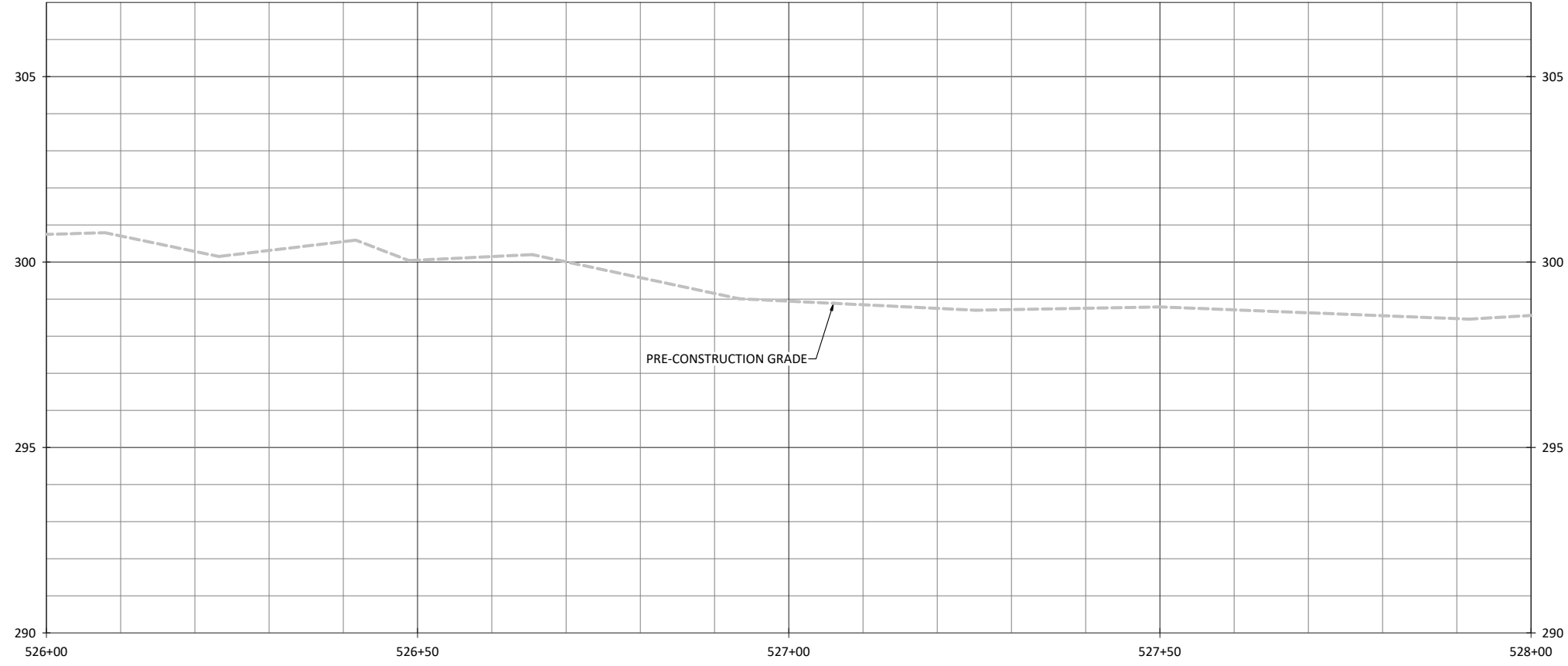


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Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.5.13

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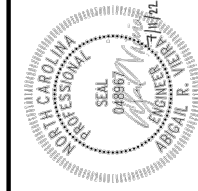
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 Job Number: 005-02186
 Project Engineer: ARV
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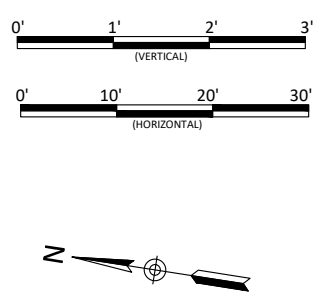
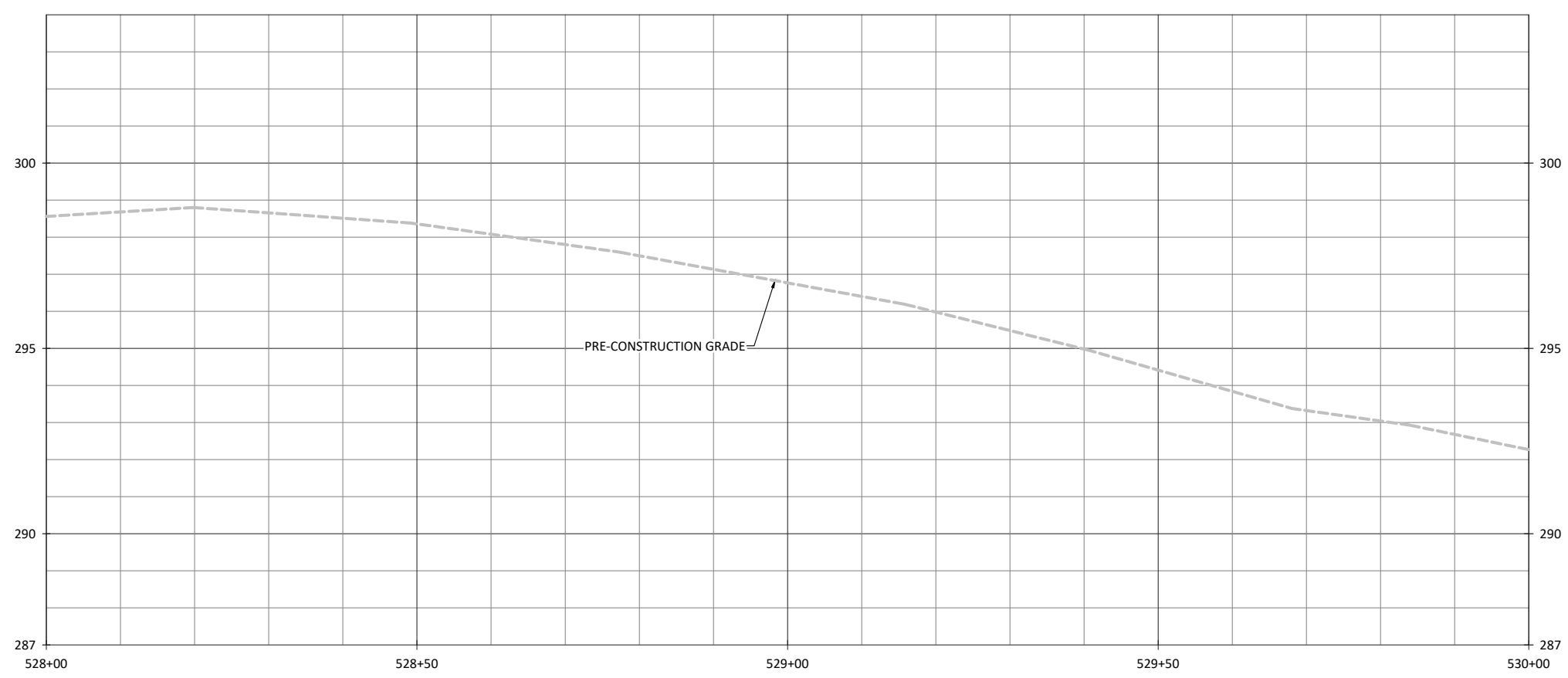
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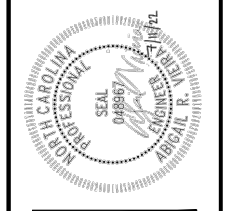
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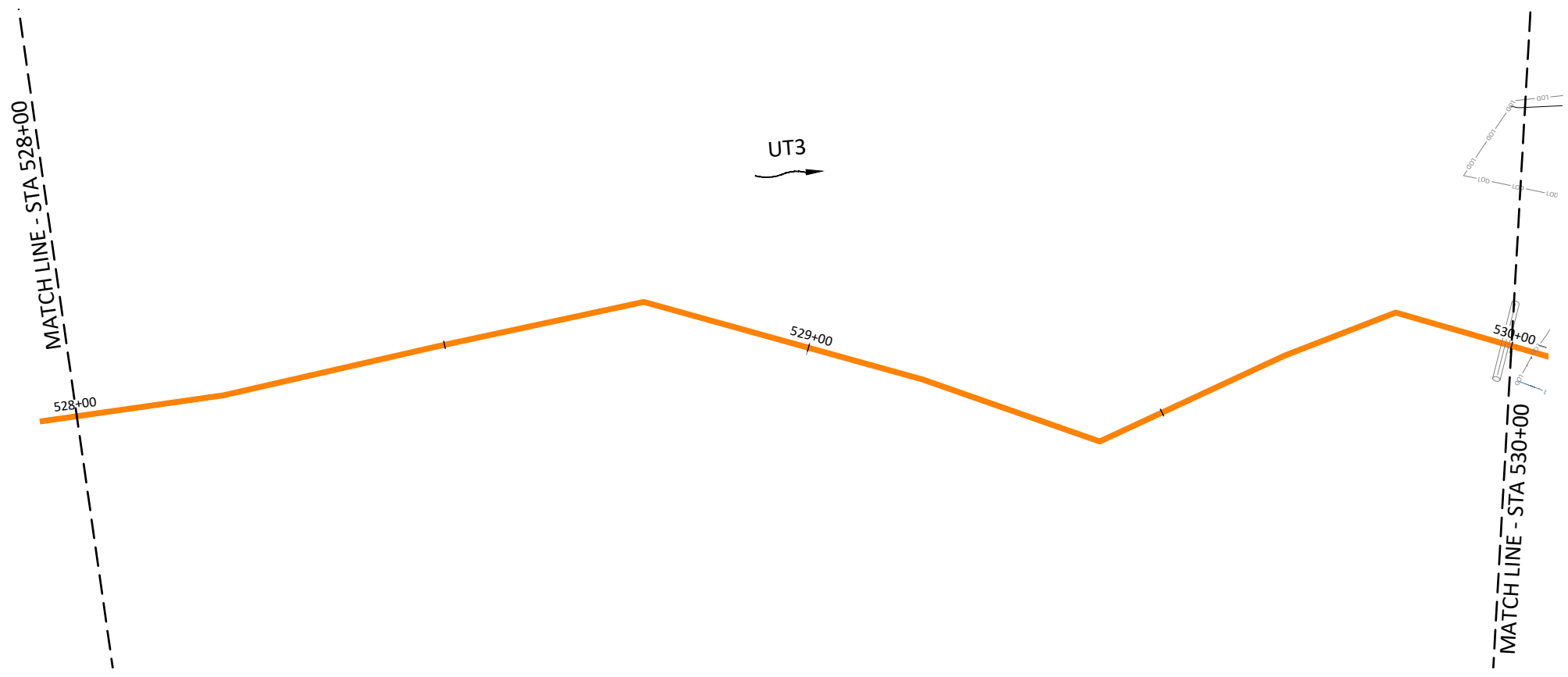
Cross Creek Ranch Site
Montgomery County, North Carolina
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Stream Plan and Profile

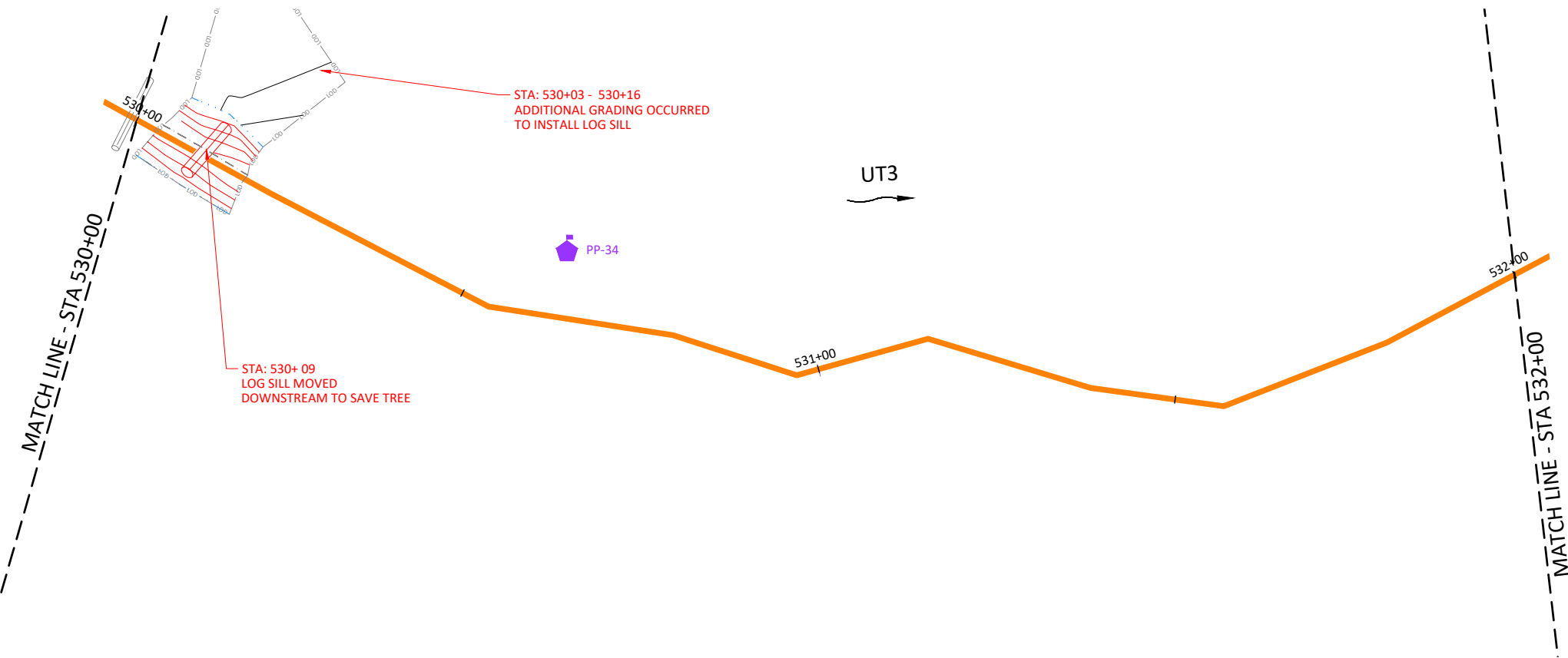
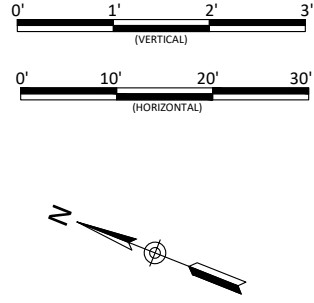
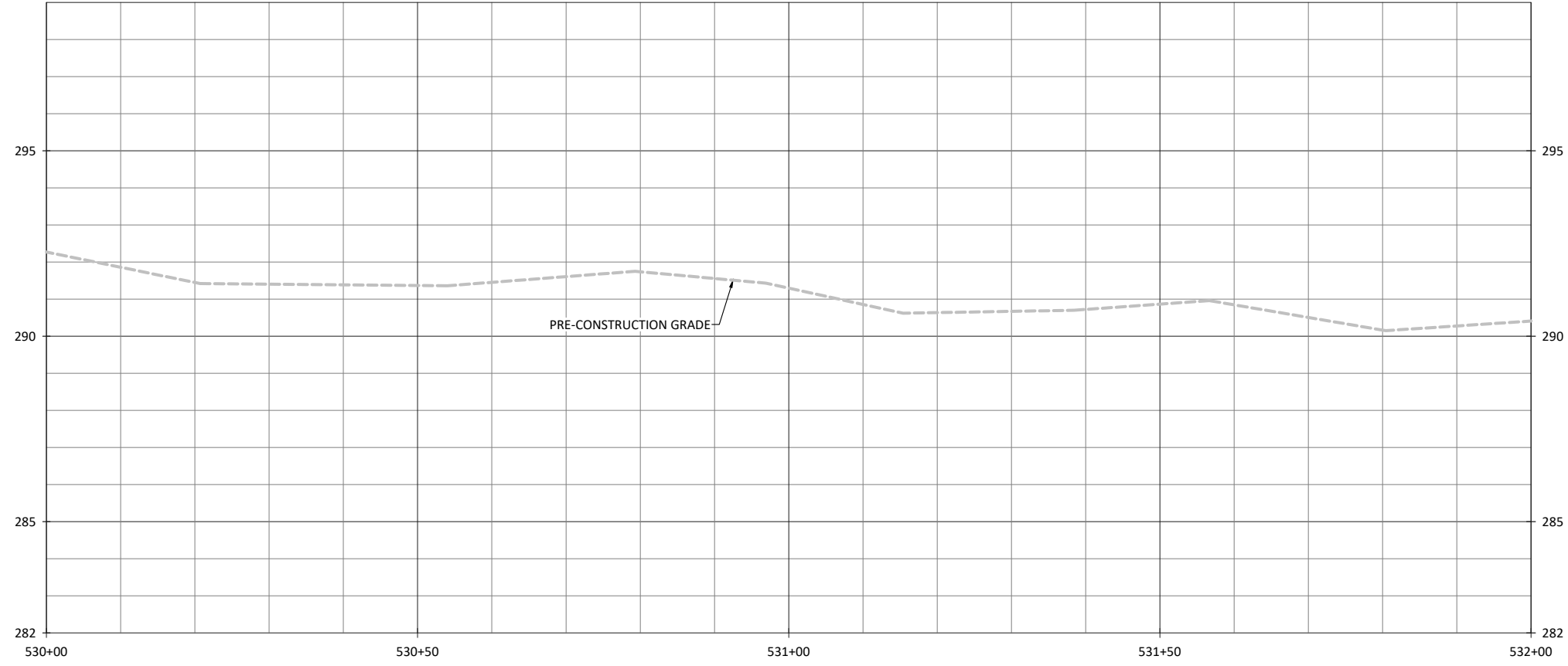
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Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW
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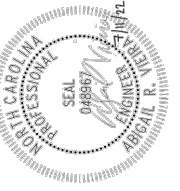
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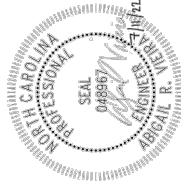
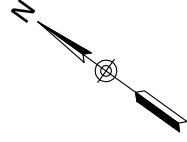
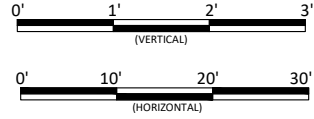
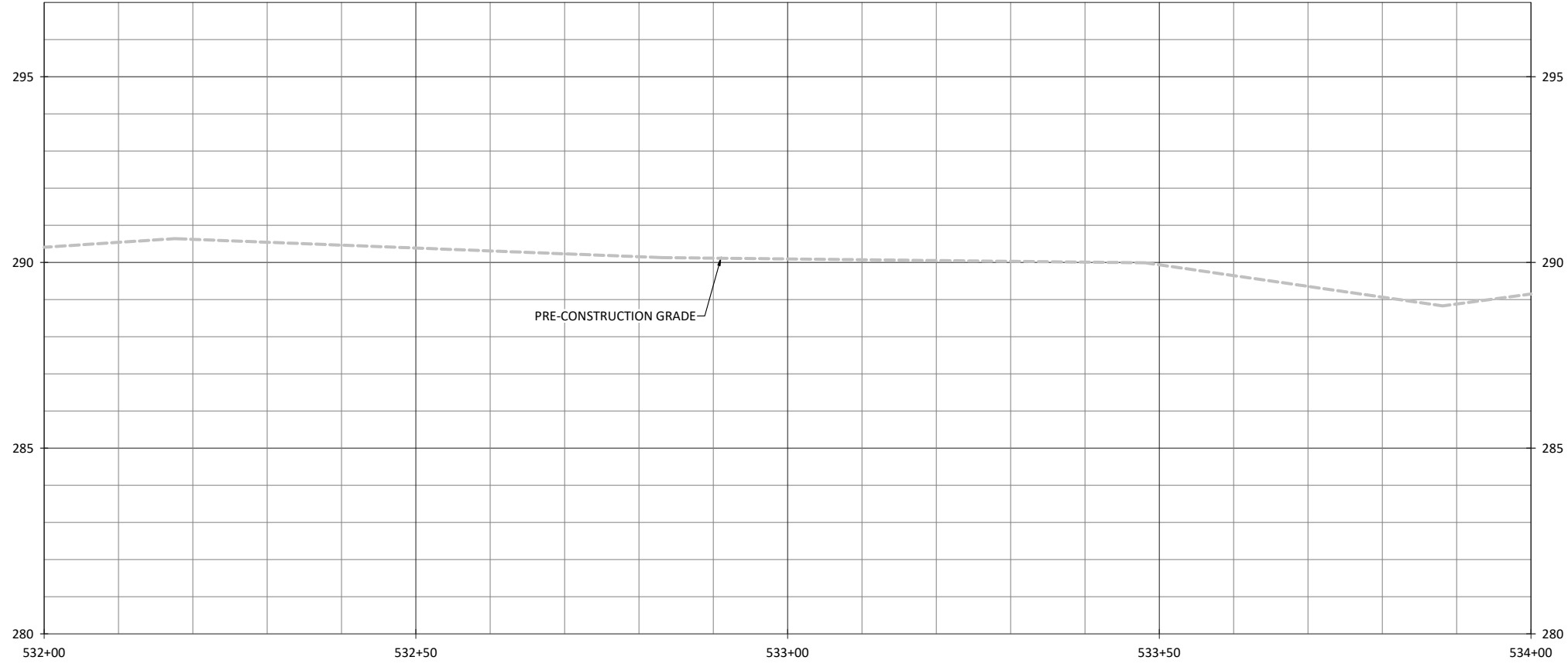
Cross Creek Ranch Site
Montgomery County, North Carolina

UT3
Stream Plan and Profile

Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

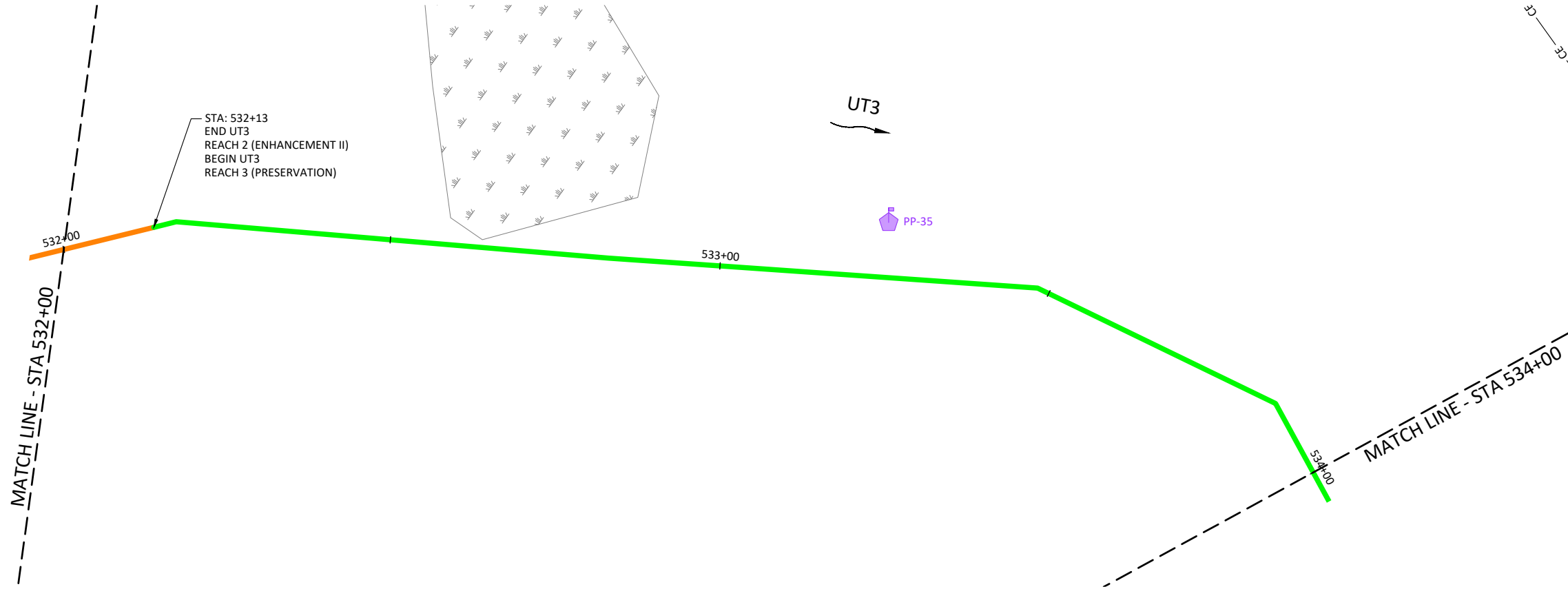
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Cross Creek Ranch Site
Montgomery County, North Carolina

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Stream Plan and Profile

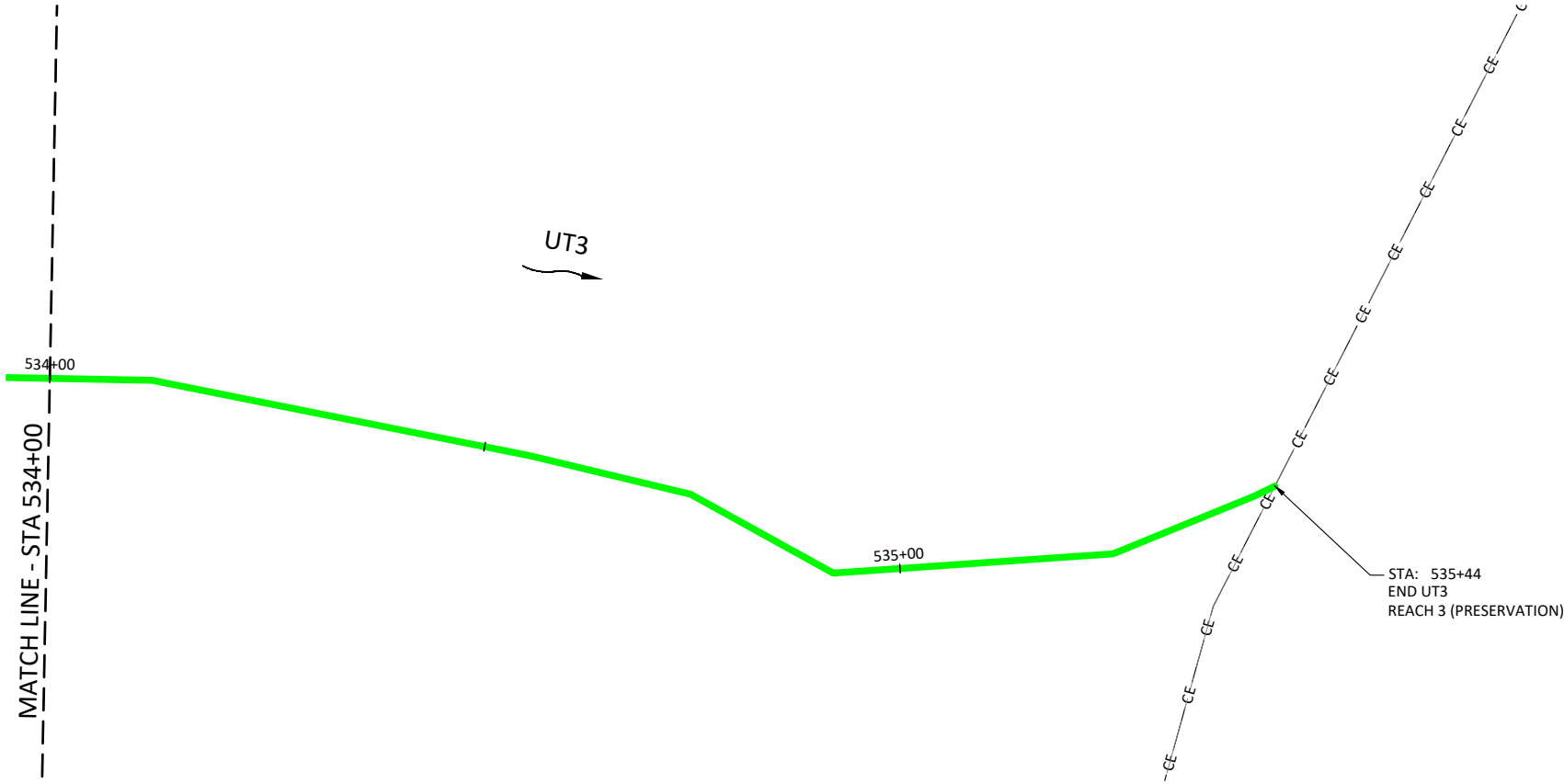
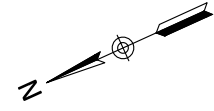
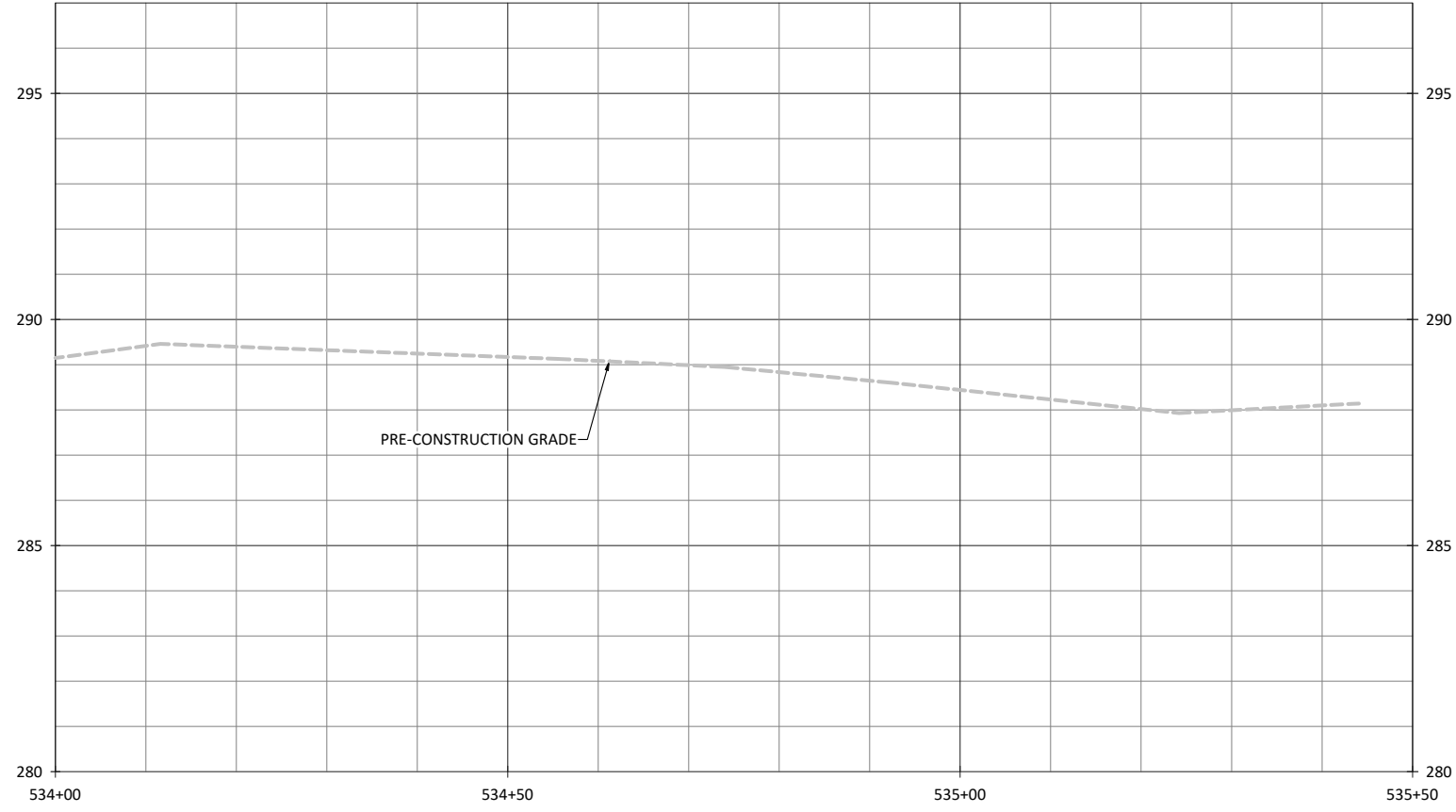
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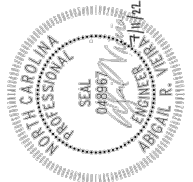
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Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.5.17



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STA: 535+44
END UT3
REACH 3 (PRESERVATION)



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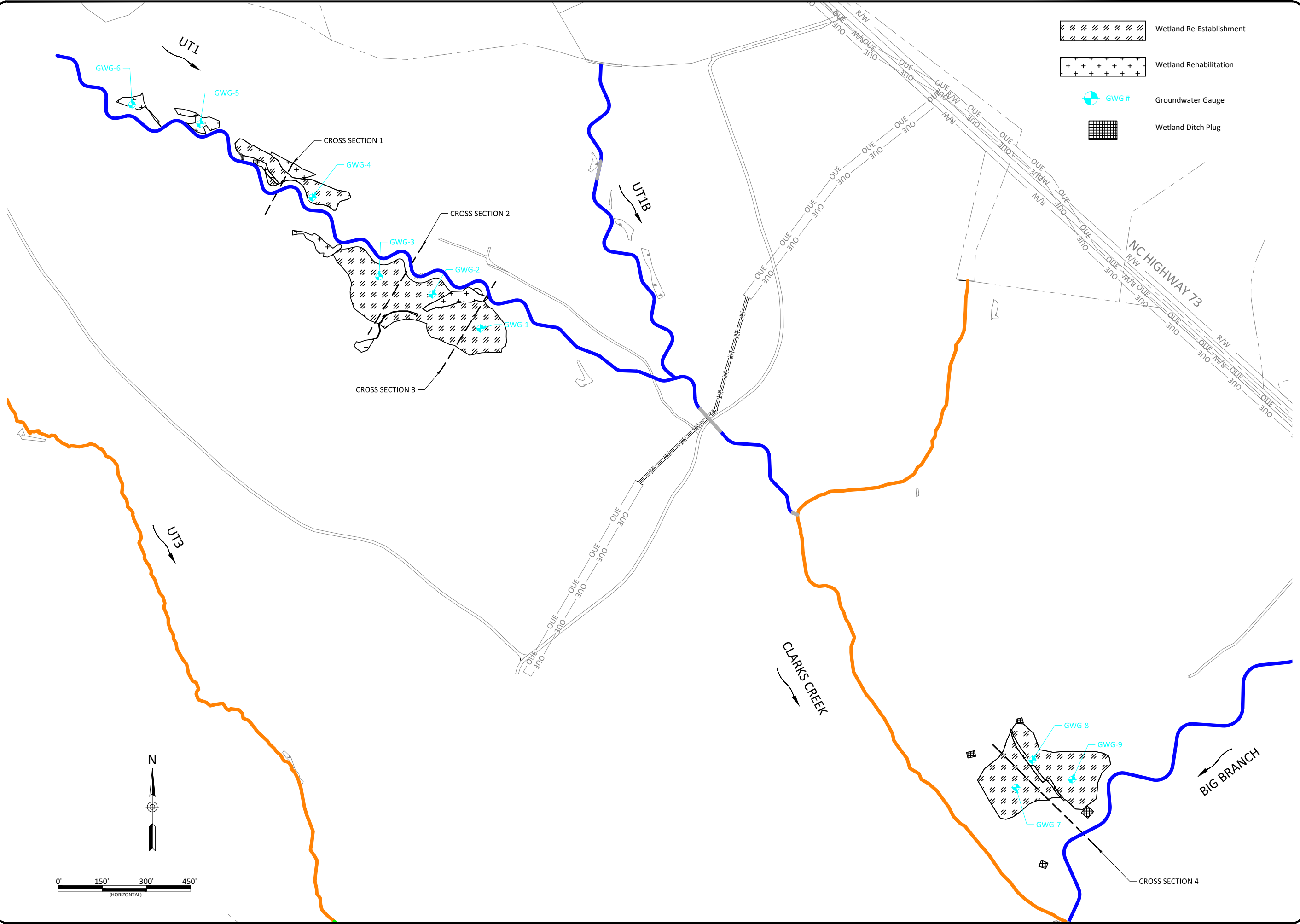
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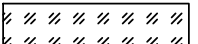
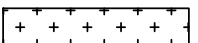


Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

1.5.18

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-  Wetland Re-Establishment
-  Wetland Rehabilitation
-  GWG #
-  Wetland Ditch Plug

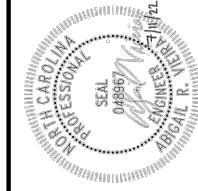
Cross Creek Ranch Site
Montgomery County, North Carolina
 Wetlands Overview

Revisions:	

Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

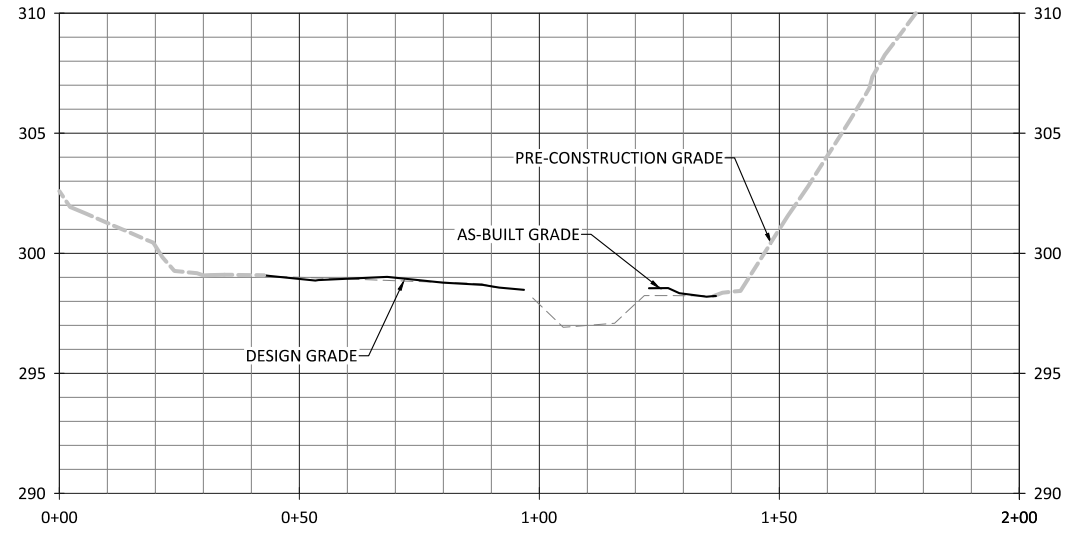
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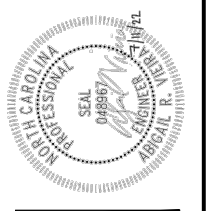
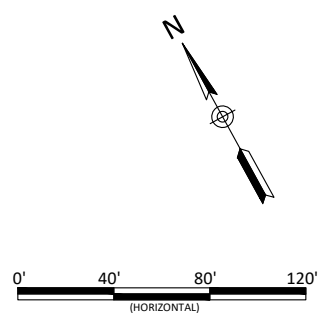
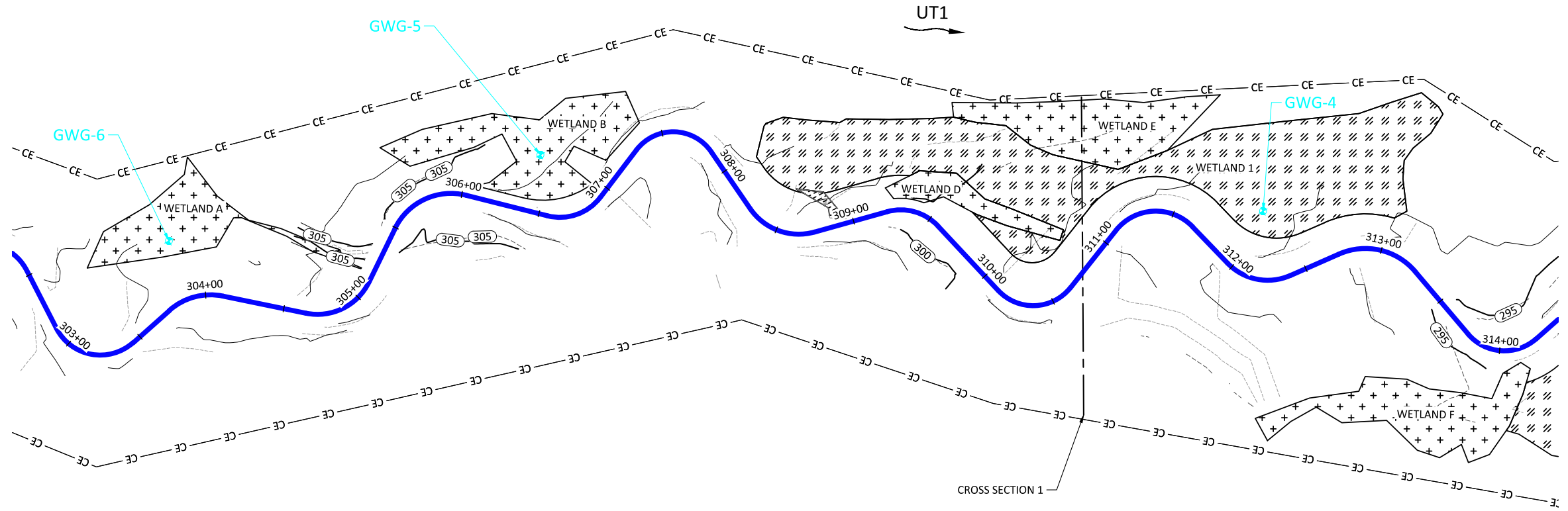


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WETLAND CROSS SECTION 1



NOTES:
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 Cross Section 1
 Wetlands

Revisions:

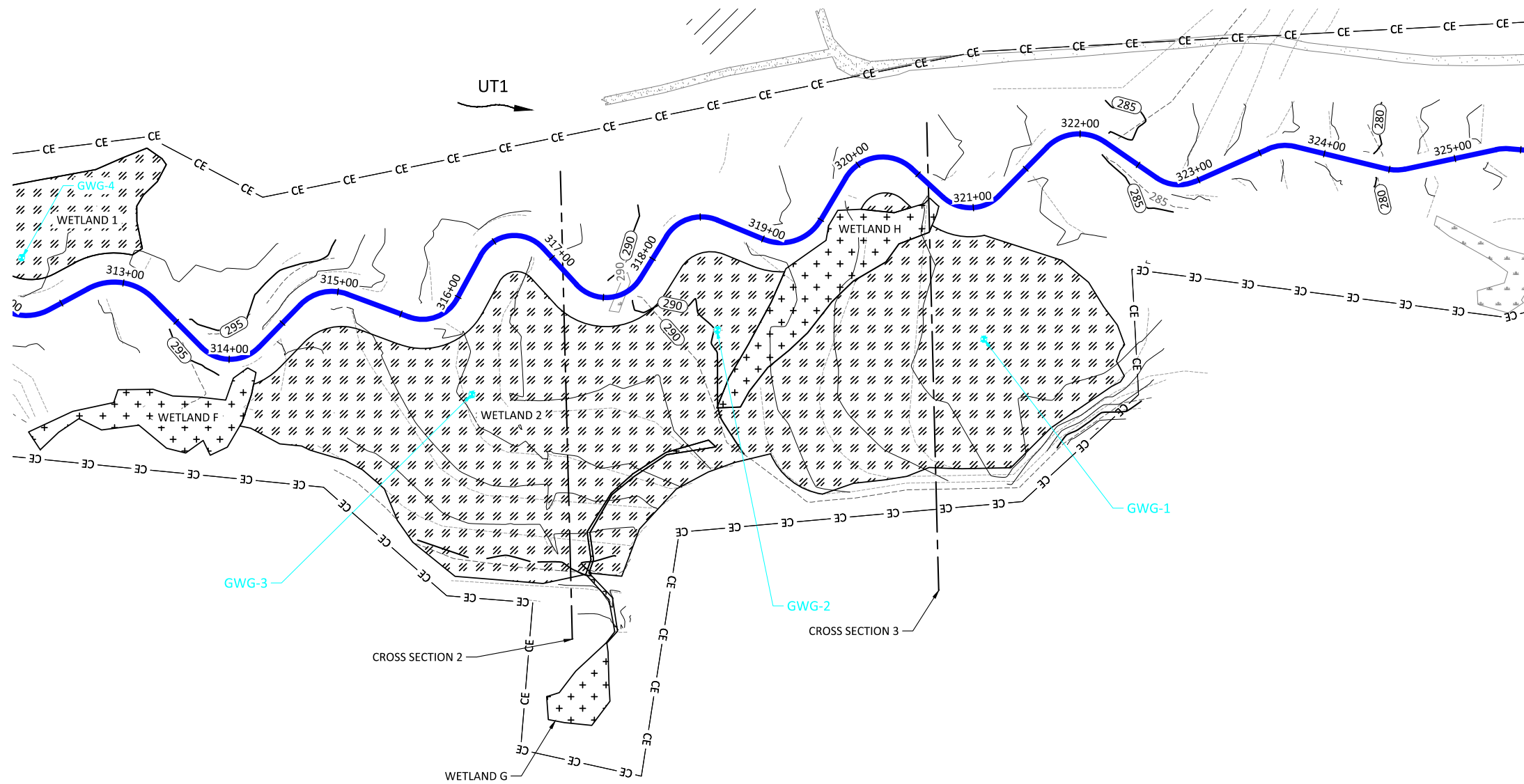
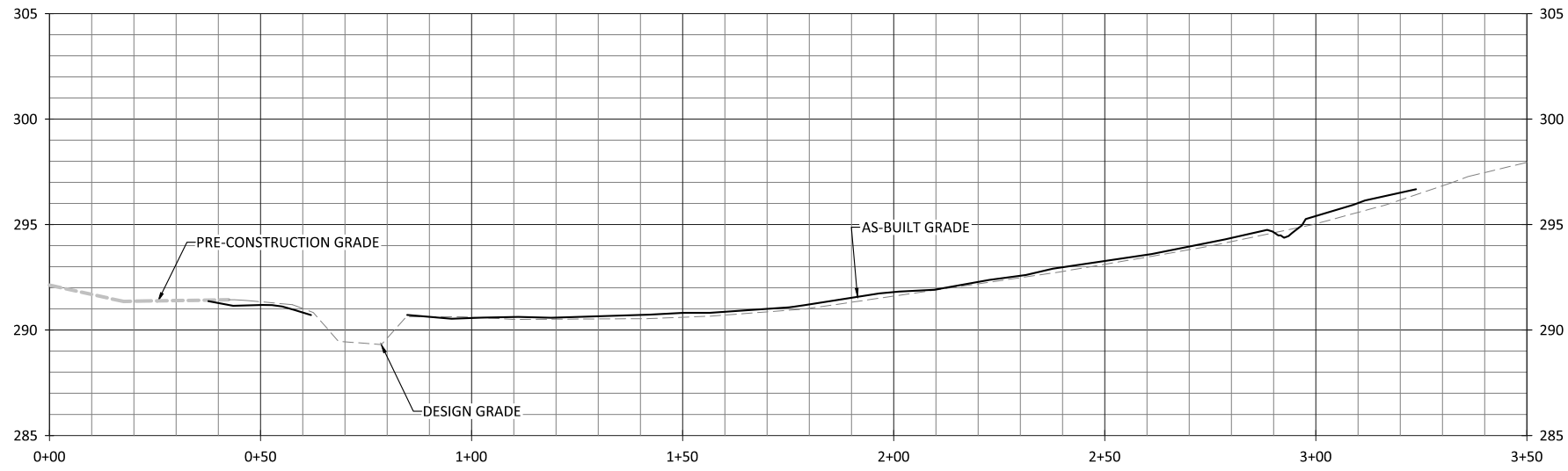
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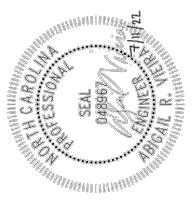
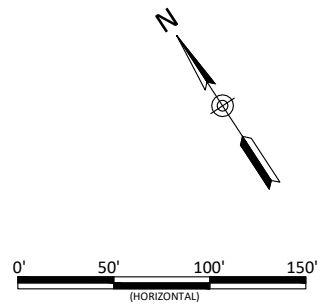
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August 25, 2022
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WETLAND CROSS SECTION 2



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 1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.



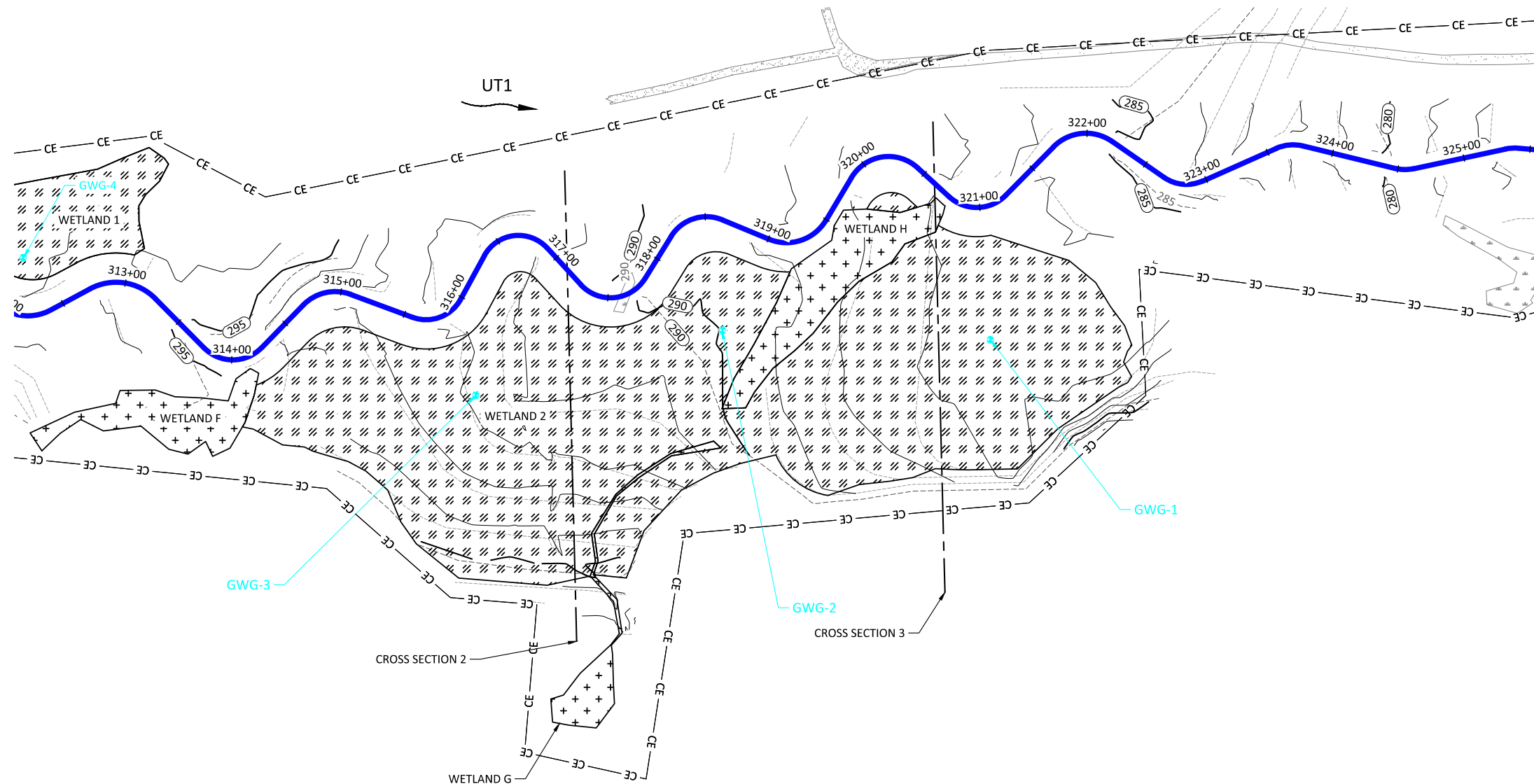
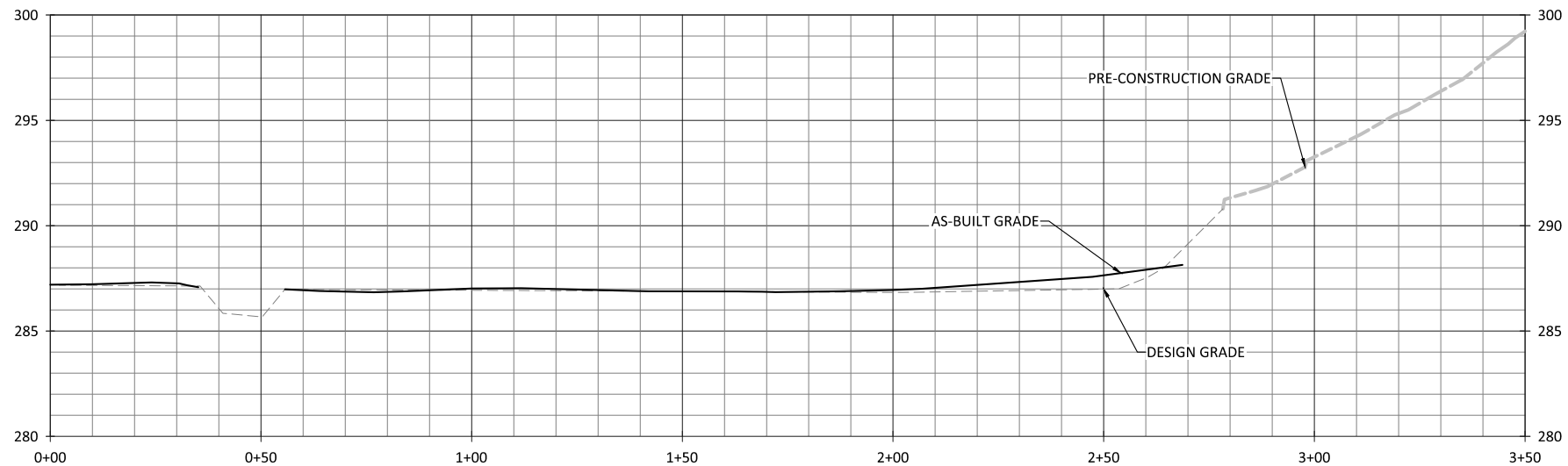
Cross Creek Ranch Site
 Montgomery County, North Carolina
 Cross Section 2
 Wetlands

Revisions:

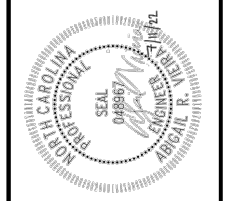
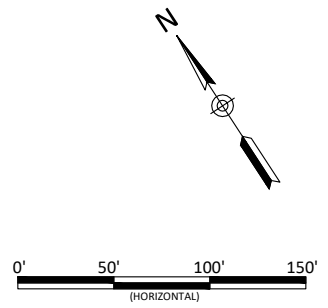
Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

2.3

WETLAND CROSS SECTION 3



NOTES:
 1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.



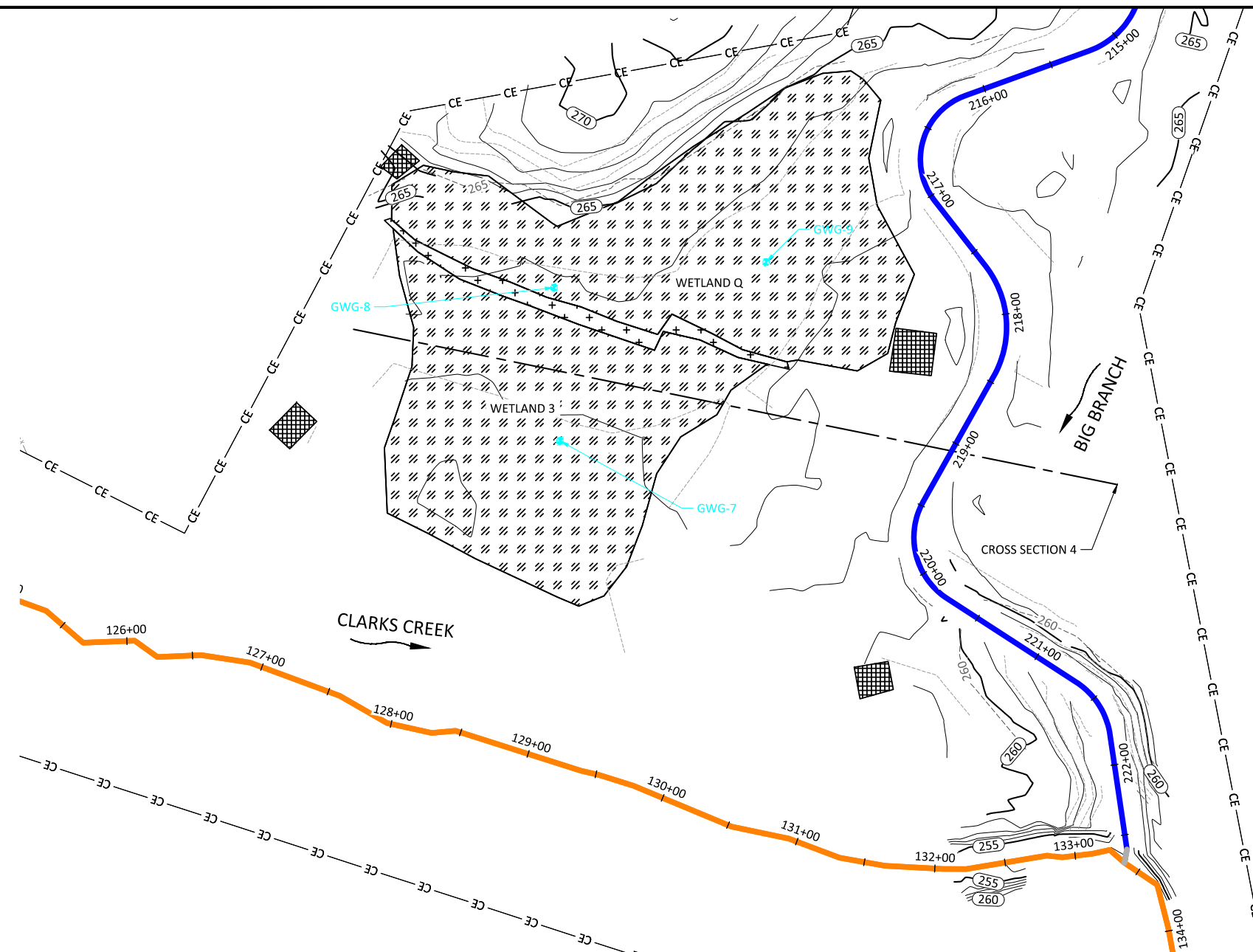
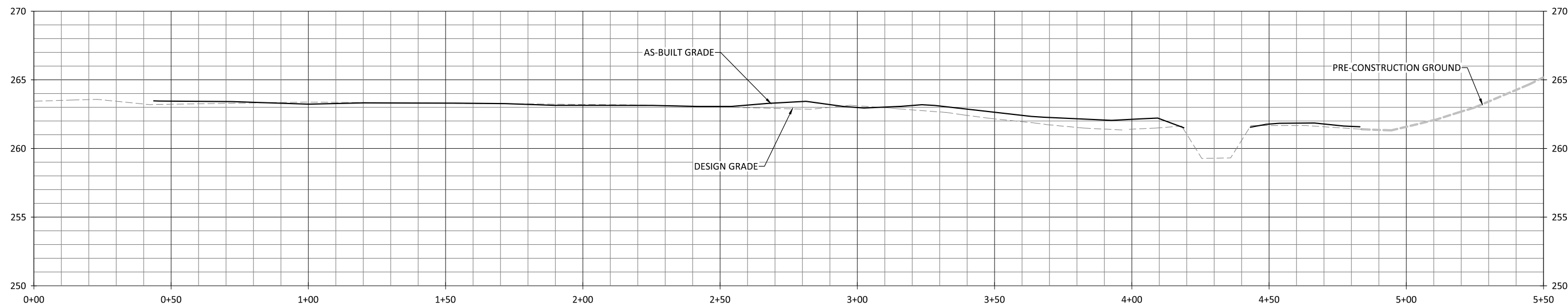
Cross Creek Ranch Site
 Montgomery County, North Carolina
 Cross Section 3
 Wetlands

Revisions:

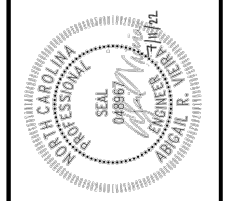
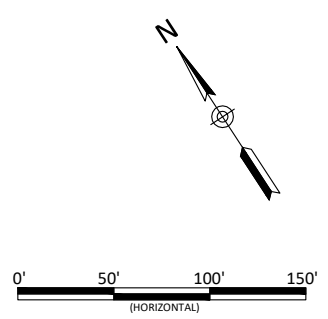
Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

2.4

WETLAND CROSS SECTION 4



NOTES:
 1. DEVIATIONS FROM THE DESIGN ARE SHOWN IN RED.



Cross Creek Ranch Site
 Montgomery County, North Carolina
 Cross Section 4
 Wetlands

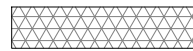
Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

2.5

Streambank Planting Zone 1						
Live Stakes						
Species	Common Name	Indiv. Spacing	Size	Stratum	Wetland Indicator Status	% of Stems
<i>Salix nigra</i>	Black Willow	6-8ft	0.5"-1.5" cal.	Canopy	OBL	50%
<i>Cornus amomum</i>	Silky Dogwood	6-8ft	0.5"-1.5" cal.	Shrub	FACW	10%
<i>Cephalanthus occidentalis</i>	Buttonbush	6-8ft	0.5"-1.5" cal.	Shrub	OBL	5%
<i>Salix sericea</i>	Silky Willow	6-8ft	0.5"-1.5" cal.	Shrub	OBL	25%
<i>Sambucus canadensis</i>	Elderberry	6-8ft	0.5"-1.5" cal.	Shrub	FAC	10%
						100%
Herbaceous Plugs						
<i>Juncus effusus</i>	Common Rush	3-5ft	1.0"-2.0" plug	Herb	FACW	40%
<i>Carex lurida</i>	Lurid Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	10%
<i>Scirpus cyperinus</i>	Woolgrass	3-5ft	1.0"-2.0" plug	Herb	FACW	10%
<i>Carex lupulina</i>	Hop Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	10%
<i>Carex crinita</i>	Fringed Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	15%
<i>Carex vulpinoidea</i>	Fox Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	15%
						100%



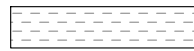
Buffer Planting Zone - Zone 3						
Bare Root						
Species	Common Name	Indiv. Spacing	Caliper Size	Stratum	Wetland Indicator Status	% of Stems
<i>Platanus occidentalis</i>	American Sycamore	6-12ft	0.25"-1.0"	Canopy	FACW	15%
<i>Betula nigra</i>	River Birch	6-12ft	0.25"-1.0"	Canopy	FACW	15%
<i>Diospyros virginiana</i>	Common Persimmon	6-12ft	0.25"-1.0"	Canopy	FAC	10%
<i>Quercus phellos</i>	Willow Oak	6-12ft	0.25"-1.0"	Canopy	FAC	10%
<i>Asimina tribola</i>	Pawpaw	6-12ft	0.25"-1.0"	Sub-Canopy	FAC	5%
<i>Populus deltoides</i>	Eastern Cottonwood	6-12ft	0.25"-1.0"	Canopy	FAC	10%
<i>Celtis laevigata</i>	Sugarberry	6-12ft	0.25"-1.0"	Canopy	FACW	10%
<i>Quercus michauxii</i>	Swamp Chestnut Oak	6-12ft	0.25"-1.0"	Canopy	FACW	10%
<i>Ulmus rubra</i>	Slippery Elm	6-12ft	0.25"-1.0"	Canopy	FAC	10%
<i>Euonymus americanus</i>	Strawberry Bush	6-12ft	0.25"-1.0"	Shrub	FAC	5%
						100%



Permanent Seeding Outside Easement - Zone 5				
Approved Dates	Species Name	Common Name	Stratum	Density (lbs/acre)
All Year	<i>Festuca arundinacea</i>	Tall Fescue	Herb	40
All Year	<i>Dactylis glomerata</i>	Orchardgrass	Herb	40
All Year	<i>Trifolium pratense</i>	Medium Red Clover	Herb	5
All Year	<i>Trifolium repens</i>	White Ladino Clover	Herb	5
				90

Permanent Riparian Seeding					
Pure Live Seed (20 lbs/acre)					
Approved Dates	Species Name	Common Name	Stratum	Wetland Indicator Status	Density (lbs/acre)
All-Year	<i>Schizachyrium scoparium</i>	Little Bluestem	Herb	FACU	3.0
All-Year	<i>Rudbeckia hirta</i>	Blackeyed Susan	Herb	FACU	1.0
All-Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	OBL	1.0
All-Year	<i>Panicum clandestinum</i>	Deertongue	Herb	FAC	3.0
All-Year	<i>Elymus virginicus</i>	Virginia Wild Rye	Herb	FACW	3.0
All-Year	<i>Sorghastrum nutans</i>	Indiangrass	Herb	FACU	2.0
All-Year	<i>Coreopsis lanceolata</i>	Lanceleaf coreopsis	Herb	FACU	1.0
All-Year	<i>Bidens aristosa</i>	Bur-marigold	Herb	FACW	1.0
All-Year	<i>Andropogon gerardii</i>	Big Bluestem	Herb	FAC	1.0
All-Year	<i>Helianthus angustifolius</i>	Narrowleaf Sunflower	Herb	FACW	1.0
All-Year	<i>Coreopsis tinctoria</i>	Plains Coreopsis	Herb	FAC	1.0
All-Year	<i>Panicum virgatum</i>	Switichgrass	Herb	FAC	2.0
					20.0

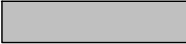




Streambank Planting Zone 2						
Live Stakes						
Species	Common Name	Indiv. Spacing	Size	Stratum	Wetland Indicator Status	% of Stems
<i>Cornus amomum</i>	Silky Dogwood	6-8ft	0.5"-1.5" cal.	Shrub	FACW	15%
<i>Salix sericea</i>	Silky Willow	6-8ft	0.5"-1.5" cal.	Shrub	OBL	50%
<i>Cephalanthus occidentalis</i>	Buttonbush	6-8ft	0.5"-1.5" cal.	Shrub	OBL	15%
<i>Sambucus canadensis</i>	Elderberry	6-8ft	0.5"-1.5" cal.	Shrub	FAC	20%
						100%
Herbaceous Plugs						
<i>Juncus effusus</i>	Common Rush	3-5ft	1.0"-2.0" plug	Herb	FACW	30%
<i>Carex lurida</i>	Lurid Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	10%
<i>Scirpus cyperinus</i>	Woolgrass	3-5ft	1.0"-2.0" plug	Herb	FACW	20%
<i>Carex lupulina</i>	Hop Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	20%
<i>Carex crinita</i>	Fringed Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	20%
						100%



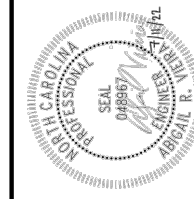
Wetland Planting Zone - Zone 4						
Bare Root						
Species	Common Name	Indiv. Spacing	Caliper Size	Stratum	Wetland Indicator Status	% of Stems
<i>Platanus occidentalis</i>	American Sycamore	6-12ft	0.25"-1.0"	Canopy	FACW	15%
<i>Betula nigra</i>	River Birch	6-12ft	0.25"-1.0"	Canopy	FACW	15%
<i>Ulmus americana</i>	American Elm	6-12ft	0.25"-1.0"	Canopy	FACW	15%
<i>Quercus lyrata</i>	Overcup Oak	6-12ft	0.25"-1.0"	Canopy	FAC	15%
<i>Quercus michauxii</i>	Swamp Chestnut Oak	6-12ft	0.25"-1.0"	Canopy	FACW	10%
<i>Alnus serrulata</i>	Tag Alder	6-12ft	0.25"-1.0"	Sub-Canopy	OBL	10%
<i>Sambucus canadensis</i>	Elderberry	6-12ft	0.25"-1.0"	Sub-Canopy	FAC	5%
<i>Cephalanthus occidentalis</i>	Buttonbush	6-12ft	0.25"-1.0"	Shrub	FAC	5%
<i>Salix nigra</i>	Black Willow	6-12ft	0.25"-1.0"	Canopy	OBL	5%
<i>Nyssa biflora</i>	Swamp Gum	6-12ft	0.25"-1.0"	Canopy	FAC	5%
						100%
Herbaceous Plugs						
<i>Juncus effusus</i>	Common Rush	3-5ft	1.0"-2.0" plug	Herb	FACW	30%
<i>Scirpus cyperinus</i>	Woolgrass	3-5ft	1.0"-2.0" plug	Herb	FACW	25%
<i>Carex vulpinoidea</i>	Fox Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	25%
<i>Carex lurida</i>	Lurid Sedge	3-5ft	1.0"-2.0" plug	Herb	OBL	10%
<i>Peltandra virginica</i>	Arrow Arum	3-5ft	1.0"-2.0" plug	Herb	OBL	10%
						100%

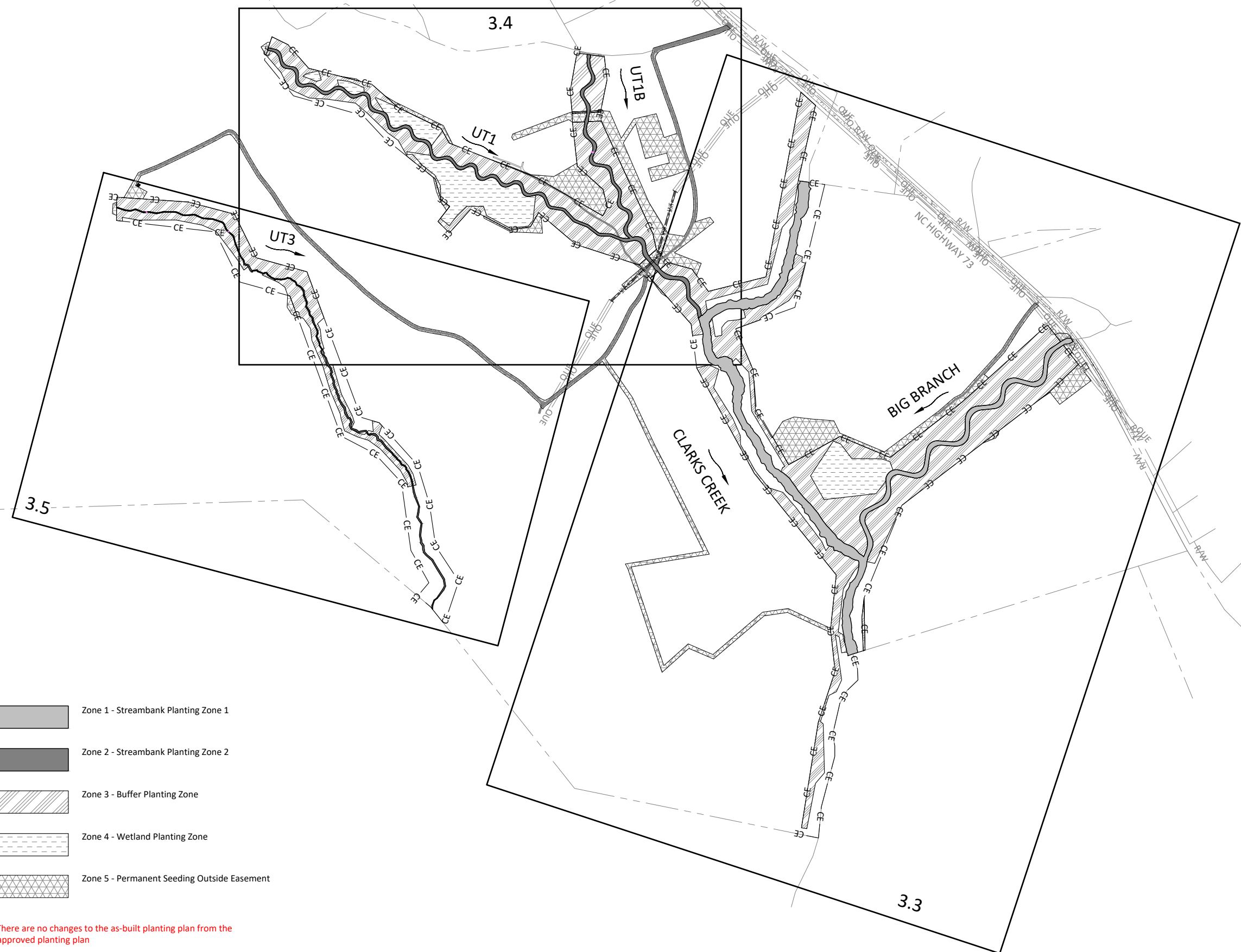
Permanent Wetland Seeding					
Pure Live Seed (20 lbs/acre)					
Approved Dates	Species Name	Common Name	Stratum	Wetland Indicator Status	Density (lbs/acre)
All-Year	<i>Coleataenia anceps</i>	Beaked Panicgrass	Herb	FAC	3.0
All-Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	OBL	2.0
All-Year	<i>Carex lurida</i>	Lurid Sedge	Herb	OBL	0.5
All-Year	<i>Elymus virginicus</i>	Virginia Wildrye	Herb	FACW	4.0
All-Year	<i>Panicum clandestinum</i>	Deertongue	Herb	FAC	3.0
All-Year	<i>Bidens aristosa</i>	Bur-Marigold	Herb	FACW	1.0
All-Year	<i>Panicum virgatum</i>	Switchgrass	Herb	FAC	1.0
All-Year	<i>Polygonum pensylvanicum</i>	Smartweed	Herb	FAC	1.0
All-Year	<i>Panicum dichotomiflorum</i>	Panicgrass	Herb	FACW	1.0
All-Year	<i>Tripsacum dactyloides</i>	Eastern Gamagrass	Herb	FACW	0.5
All-Year	<i>Helianthus angustifolius</i>	Narrowleaf Sunflower	Herb	FACW	1.0
All-Year	<i>Juncus effusus</i>	Common Rush	Herb	FACW	0.5
All-Year	<i>Chasmanthium latifolium</i>	River Oats	Herb	FACU	0.5
All-Year	<i>Peltandra virginica</i>	Arrow Arum	Herb	OBL	1.0
					20.0






Temporary Seeding				
Pure Live Seed				
Approved Dates	Species Name	Common Name	Stratum	Density (lbs/acre)
Aug 15- May 1	<i>Avena sativa</i>	Winter Oats	Herb	30
Aug 15- May 1	<i>Secale cereale</i>	Rye Grain	Herb	110
May 1 - Aug 15	<i>Urochloa ramosa</i>	Browntop Millet	Herb	50
All Year	<i>Trifolium pratense</i>	Medium Red Clover	Herb	5
All Year	<i>Trifolium repens</i>	White Ladino Clover	Herb	5
				200

-  Zone 1 - Streambank Planting Zone 1
-  Zone 2 - Streambank Planting Zone 2
-  Zone 3 - Buffer Planting Zone
-  Zone 4 - Wetland Planting Zone
-  Zone 5 - Permanent Seeding Outside Easement

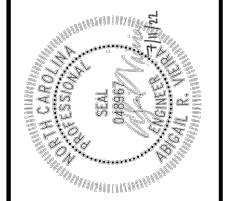
Note: There are no changes to the as-built planting plan from the approved planting plan





-  Zone 1 - Streambank Planting Zone 1
-  Zone 2 - Streambank Planting Zone 2
-  Zone 3 - Buffer Planting Zone
-  Zone 4 - Wetland Planting Zone
-  Zone 5 - Permanent Seeding Outside Easement

Note: There are no changes to the as-built planting plan from the approved planting plan

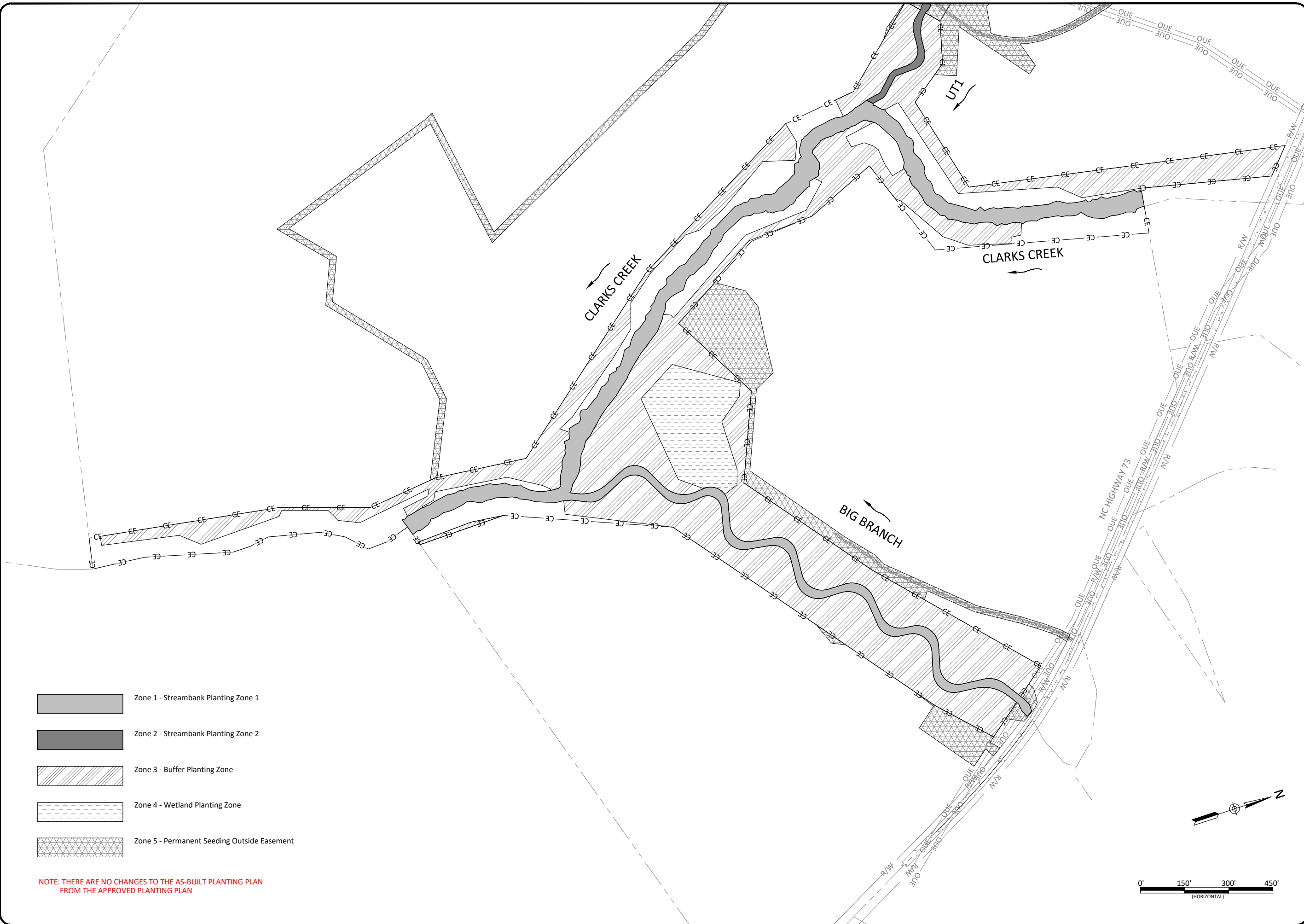





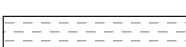

Cross Creek Ranch Site
Montgomery County, North Carolina
Planting Overview
Planting Plan

Revisions:

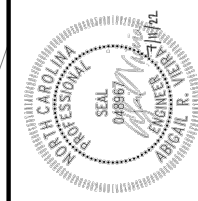
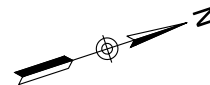
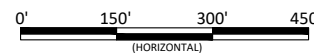
Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWV

3.2



-  Zone 1 - Streambank Planting Zone 1
-  Zone 2 - Streambank Planting Zone 2
-  Zone 3 - Buffer Planting Zone
-  Zone 4 - Wetland Planting Zone
-  Zone 5 - Permanent Seeding Outside Easement




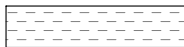

NOTE: THERE ARE NO CHANGES TO THE AS-BUILT PLANTING PLAN FROM THE APPROVED PLANTING PLAN



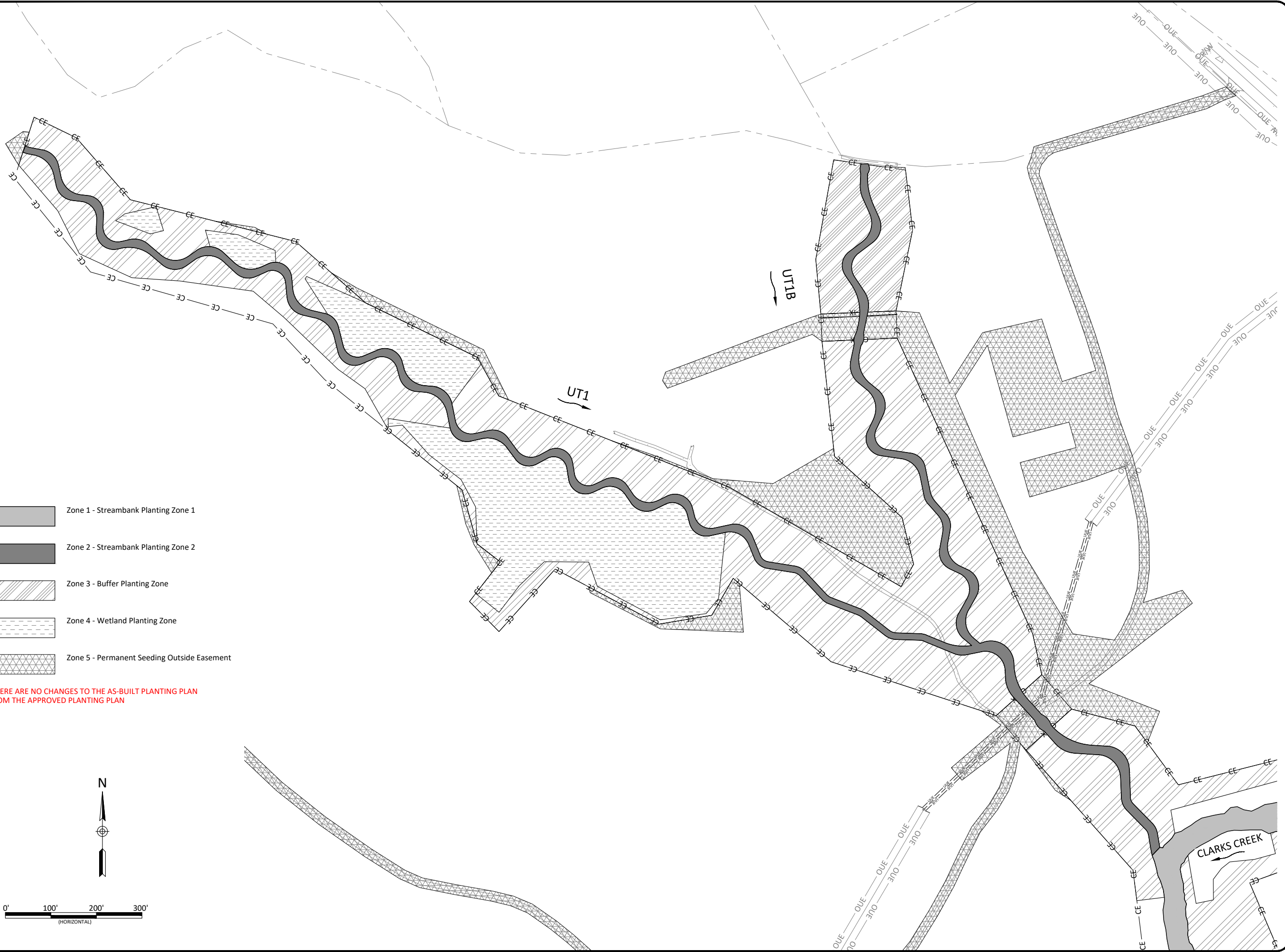
Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek and Big Branch
Planting Plan

Revisions:

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW

-  Zone 1 - Streambank Planting Zone 1
-  Zone 2 - Streambank Planting Zone 2
-  Zone 3 - Buffer Planting Zone
-  Zone 4 - Wetland Planting Zone
-  Zone 5 - Permanent Seeding Outside Easement

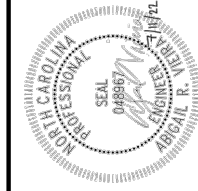
NOTE: THERE ARE NO CHANGES TO THE AS-BUILT PLANTING PLAN FROM THE APPROVED PLANTING PLAN



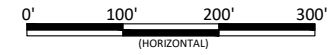
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Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW




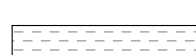

Revisions:

Cross Creek Ranch Site
Montgomery County, North Carolina
UT1 and UT1B
Planting Plan

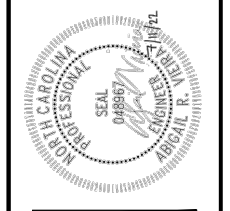
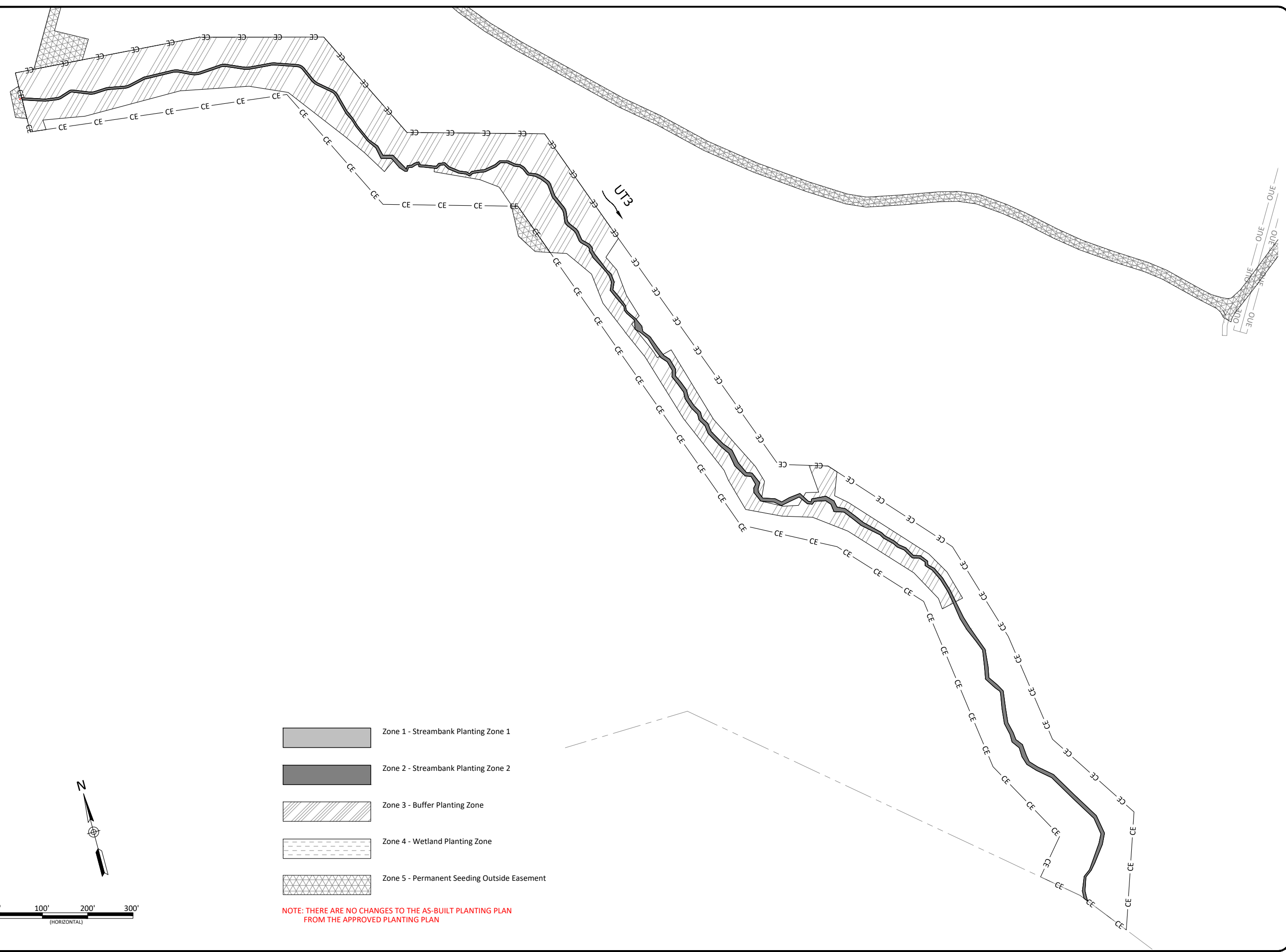


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-  Zone 1 - Streambank Planting Zone 1
-  Zone 2 - Streambank Planting Zone 2
-  Zone 3 - Buffer Planting Zone
-  Zone 4 - Wetland Planting Zone
-  Zone 5 - Permanent Seeding Outside Easement

NOTE: THERE ARE NO CHANGES TO THE AS-BUILT PLANTING PLAN FROM THE APPROVED PLANTING PLAN

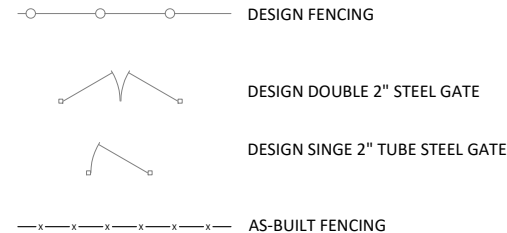
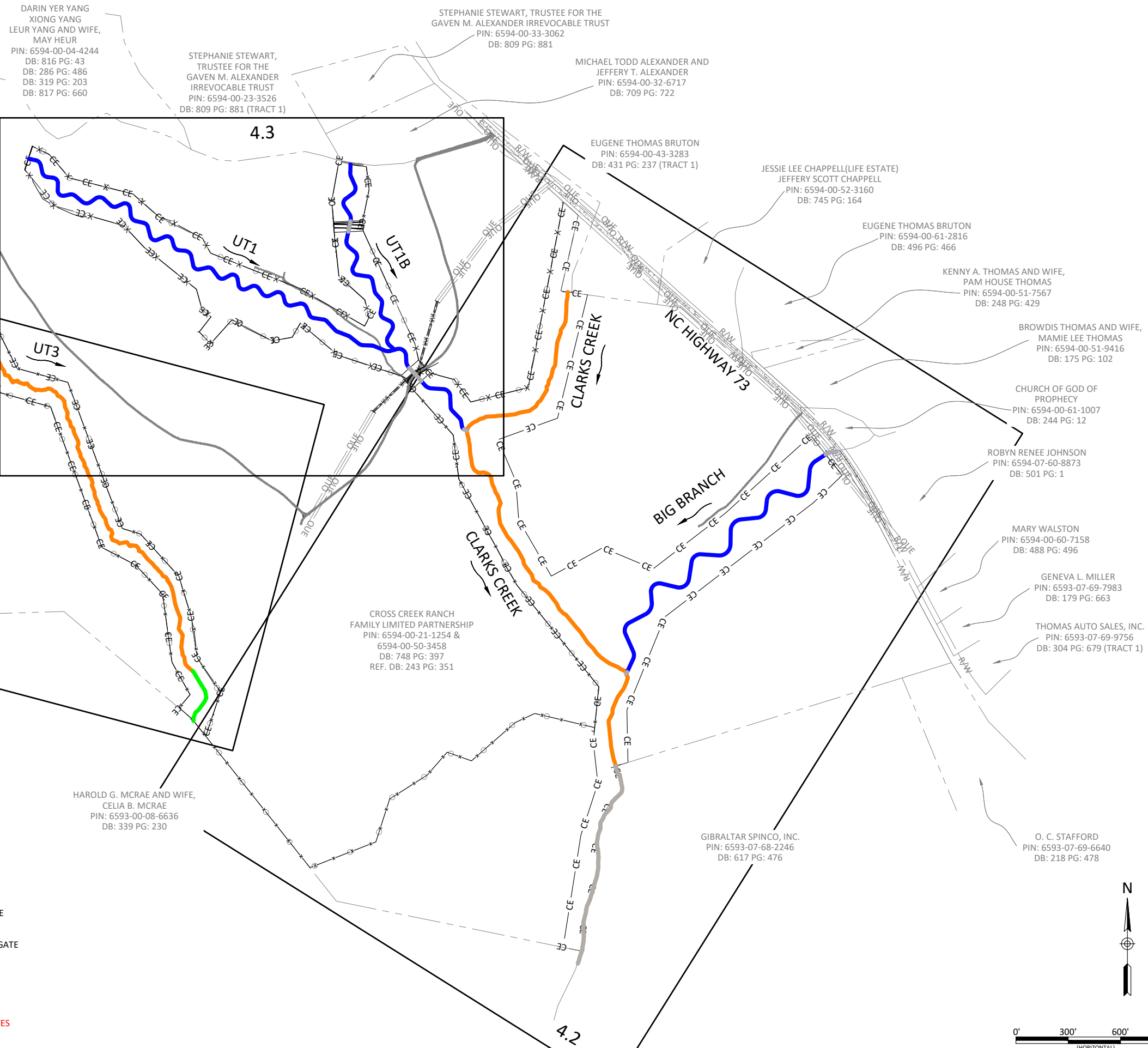


Cross Creek Ranch Site
Montgomery County, North Carolina
UT3
Planting Plan

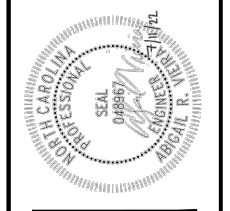
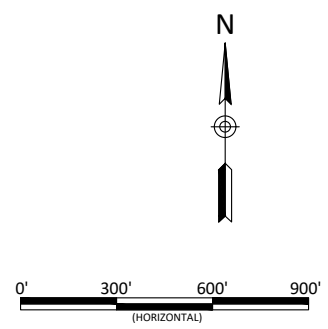
Revisions:

Date: 07.11.2022
Job Number: 005-02186
Project Engineer: ARV
Drawn By: FHM
Checked By: TWW

3.5

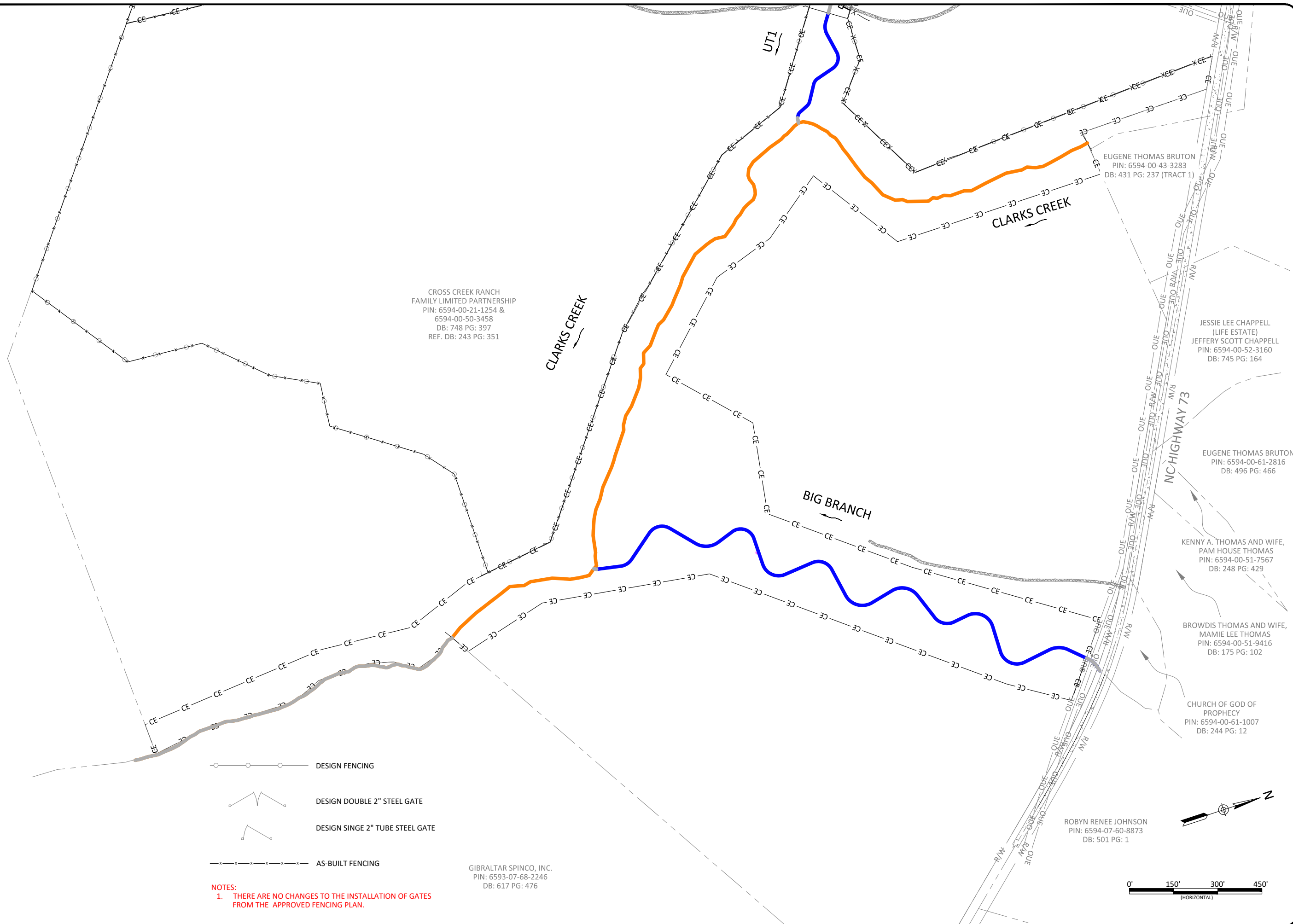


NOTES:
 1. THERE ARE NO CHANGES TO THE INSTALLATION OF GATES FROM THE APPROVED FENCING PLAN.



Cross Creek Ranch Site
Montgomery County, North Carolina
 Fencing Overview
 Fencing Plan

Date:	07.11.2022
Job Number:	005-02186
Project Engineer:	ARV
Drawn By:	FHM
Checked By:	TWW



CROSS CREEK RANCH
 FAMILY LIMITED PARTNERSHIP
 PIN: 6594-00-21-1254 &
 6594-00-50-3458
 DB: 748 PG: 397
 REF. DB: 243 PG: 351

EUGENE THOMAS BRUTON
 PIN: 6594-00-43-3283
 DB: 431 PG: 237 (TRACT 1)

JESSIE LEE CHAPPELL
 (LIFE ESTATE)
 JEFFERY SCOTT CHAPPELL
 PIN: 6594-00-52-3160
 DB: 745 PG: 164

EUGENE THOMAS BRUTON
 PIN: 6594-00-61-2816
 DB: 496 PG: 466

KENNY A. THOMAS AND WIFE,
 PAM HOUSE THOMAS
 PIN: 6594-00-51-7567
 DB: 248 PG: 429

BROWDIS THOMAS AND WIFE,
 MAMIE LEE THOMAS
 PIN: 6594-00-51-9416
 DB: 175 PG: 102

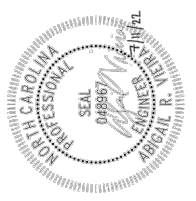
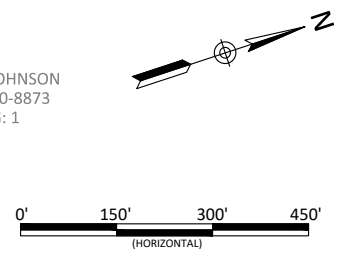
CHURCH OF GOD OF
 PROPHECY
 PIN: 6594-00-61-1007
 DB: 244 PG: 12

ROBYN RENEE JOHNSON
 PIN: 6594-07-60-8873
 DB: 501 PG: 1

GIBRALTAR SPINCO, INC.
 PIN: 6593-07-68-2246
 DB: 617 PG: 476

- DESIGN FENCING
- DESIGN DOUBLE 2" STEEL GATE
- DESIGN SINGLE 2" TUBE STEEL GATE
- AS-BUILT FENCING

NOTES:
 1. THERE ARE NO CHANGES TO THE INSTALLATION OF GATES FROM THE APPROVED FENCING PLAN.



Cross Creek Ranch Site
Montgomery County, North Carolina
Clarks Creek and Big Branch
Fencing Plan

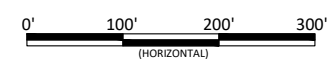
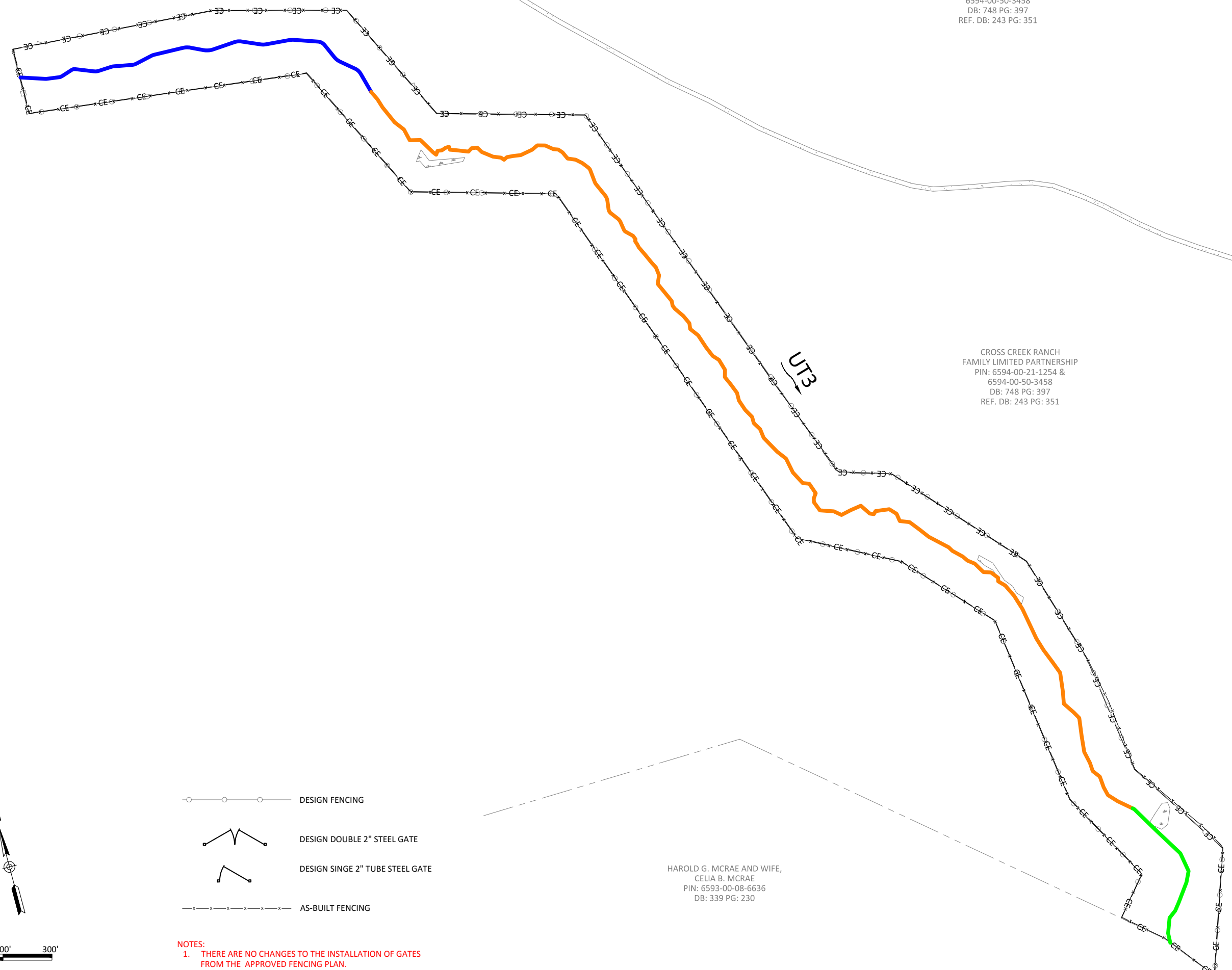
Revisions:


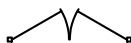

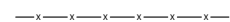
Date: 07.11.2022
 Job Number: 005-02186
 Project Engineer: ARV
 Drawn By: FHM
 Checked By: TWV

FAMILY LIMITED PARTNERSHIP
PIN: 6594-00-21-1254 &
6594-00-50-3458
DB: 748 PG: 397
REF. DB: 243 PG: 351

CROSS CREEK RANCH
FAMILY LIMITED PARTNERSHIP
PIN: 6594-00-21-1254 &
6594-00-50-3458
DB: 748 PG: 397
REF. DB: 243 PG: 351

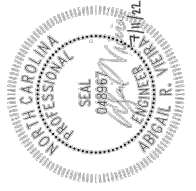
HAROLD G. MCRAE AND WIFE,
CELIA B. MCRAE
PIN: 6593-00-08-6636
DB: 339 PG: 230



-  DESIGN FENCING
-  DESIGN DOUBLE 2" STEEL GATE
-  DESIGN SINGLE 2" TUBE STEEL GATE
-  AS-BUILT FENCING

NOTES:
1. THERE ARE NO CHANGES TO THE INSTALLATION OF GATES FROM THE APPROVED FENCING PLAN.

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Cross Creek Ranch Site
Montgomery County, North Carolina
UT3
Fencing Plan

Revisions:	

Date: 07.11.2022
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