

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	41	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES OR CLEAN EXISTING STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW OR REMOVE EXISTING DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL

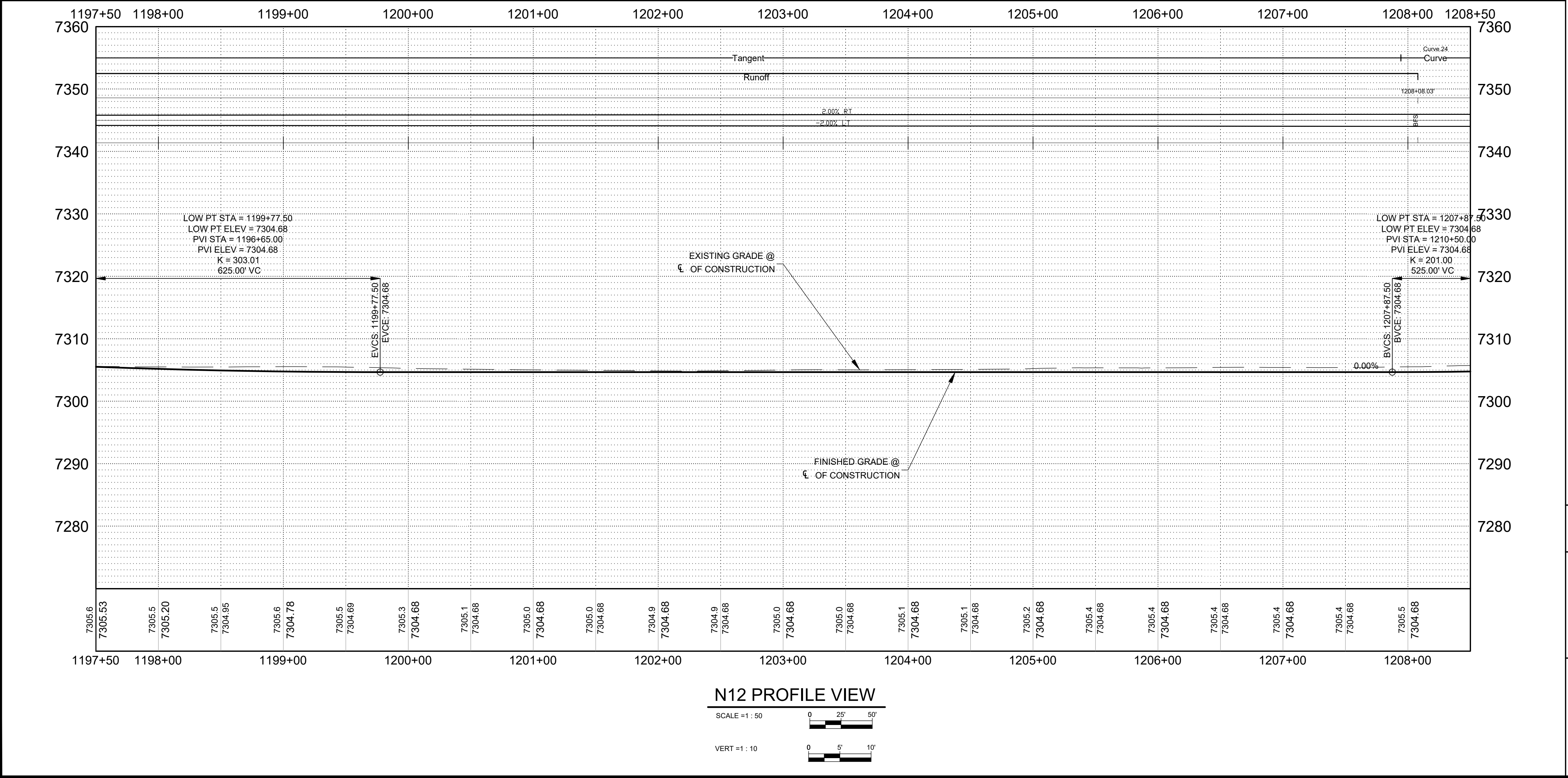
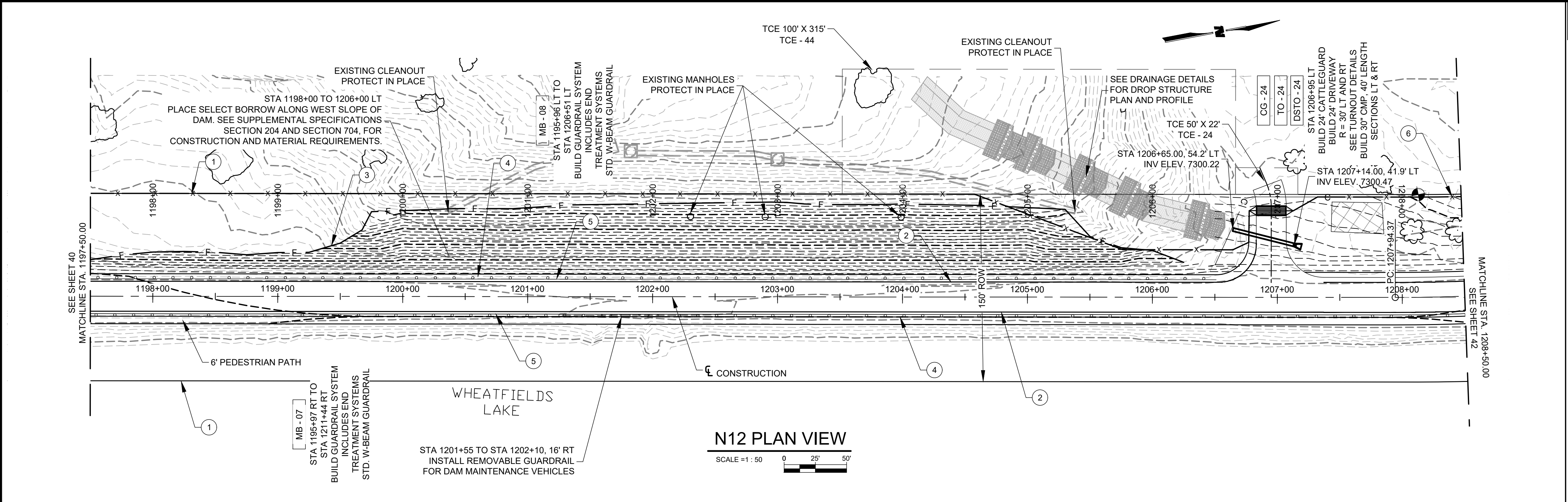
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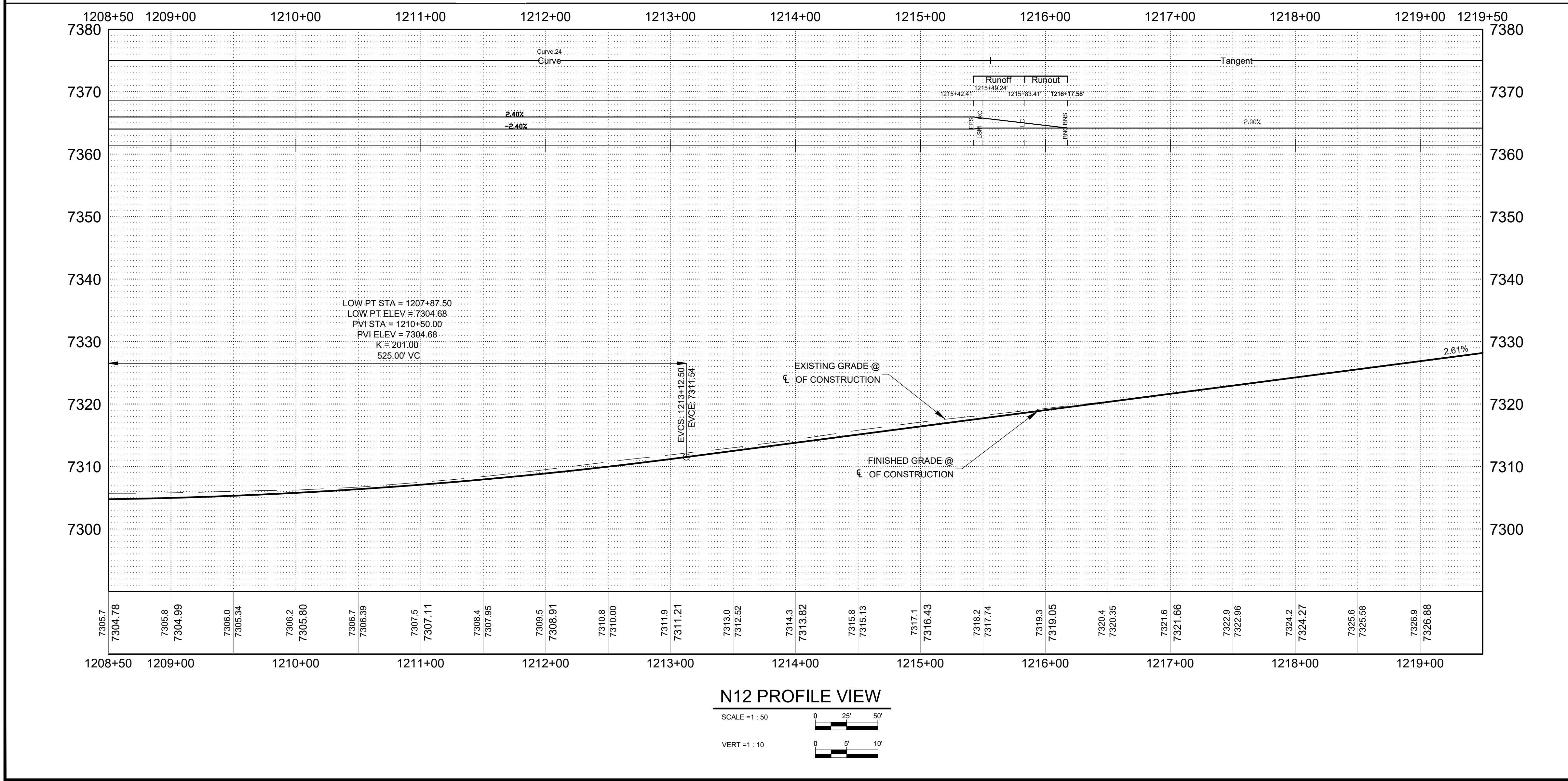
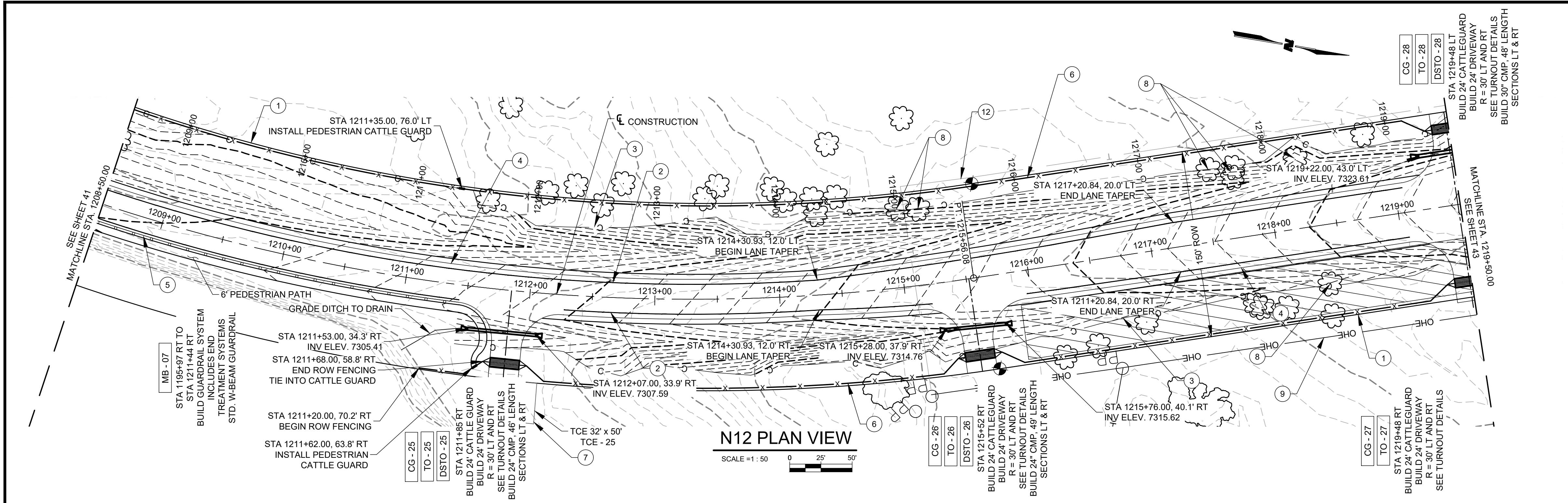
- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT

- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.
- POSSIBLE AREA FOR STORAGE OF CHOPPED TREES, PROCESSED INTO MANAGEABLE SIZES FOR AREA RESIDENTS TO RECEIVE.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	PLAN AND PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
	DRAWN	ERG		SHEET NO.	
	CHECK	ASF	N12	41 - 120	





REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	42	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- EXISTING ROW
- EDGE OF TRAVEL WAY
- SLOPE LIMITS
- EDGE OF PAVEMENT
- INSTALL GUARDRAIL
- NEW ROW FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND COMMUNICATION

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	PLAN AND PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012		DATE
DRAWN	ERG	N12		SHEET NO.	42 - 120
CHECK	ASF				

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	43	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

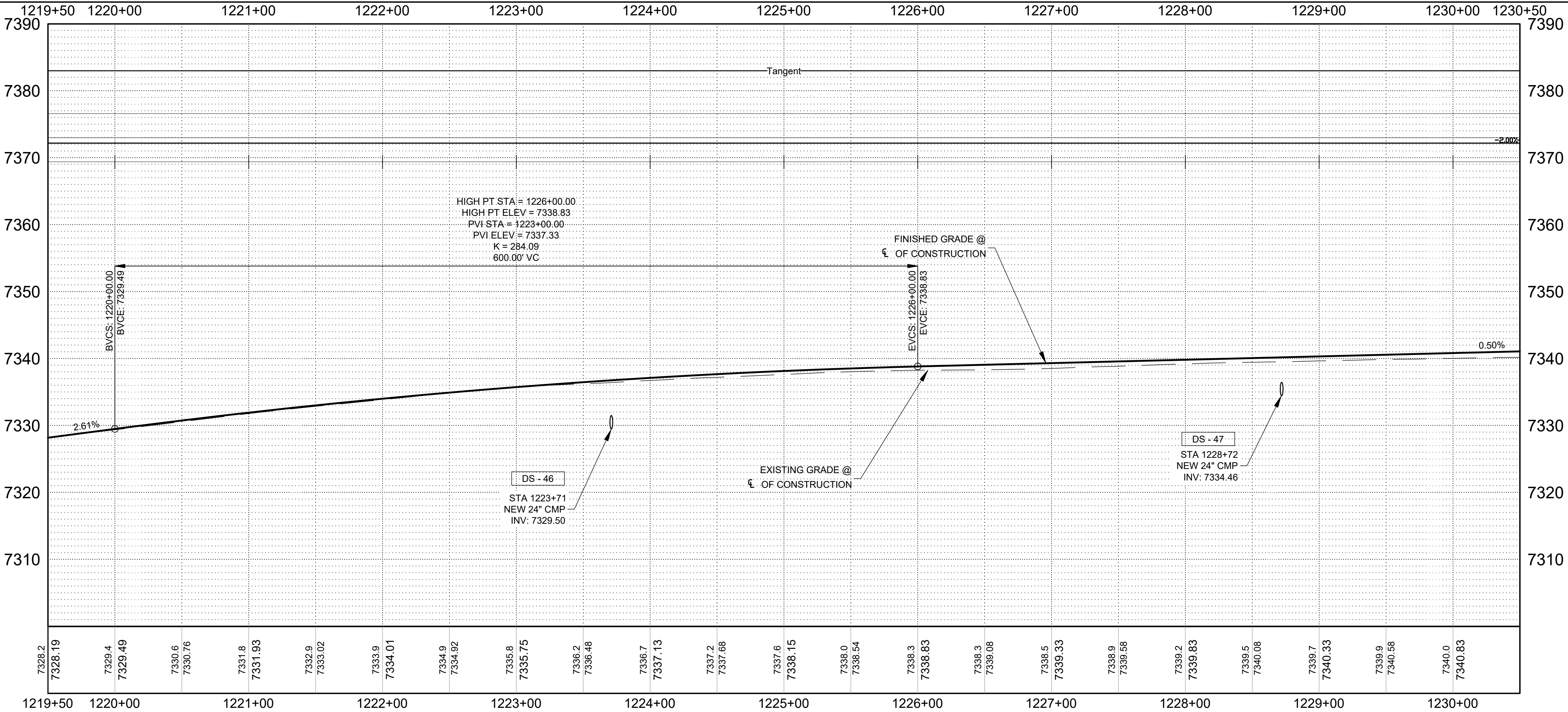
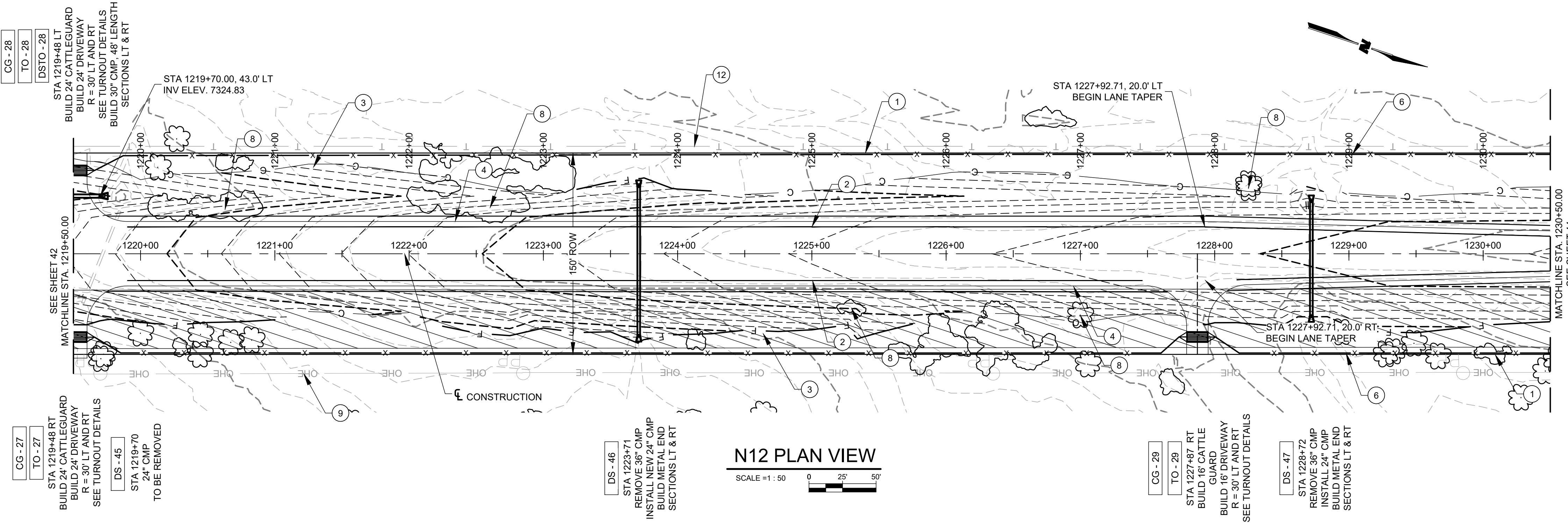
- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 12 EXISTING UNDERGROUND COMMUNICATION

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701 Registered Professional Engineer CERTIFICATE NO. (CEN) 76131 JOSHUA BROWN Date Signed: 03/09/2025 ARIZONA, U.S.A.	ROUTE N12			
	PLAN AND PROFILE			
REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
	DRAWN	ERG		SHEET NO.
	CHECK	ASF	N12	43 - 120



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	45	120

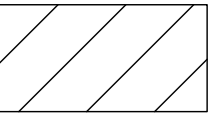
GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

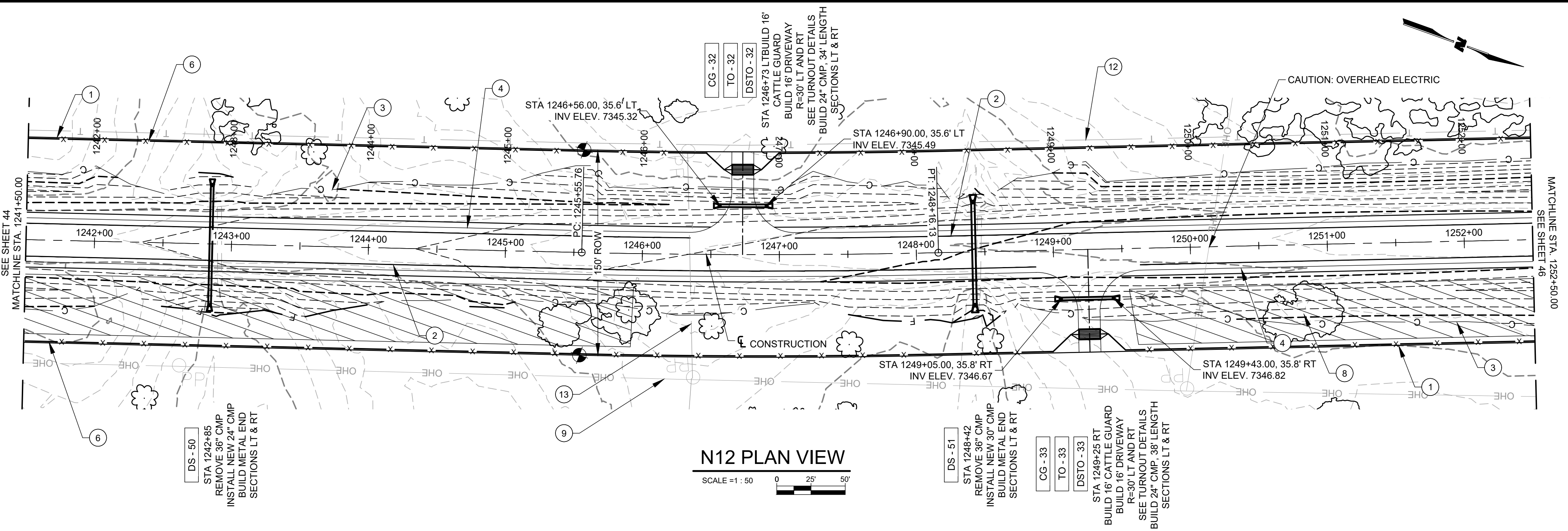
- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 12 EXISTING UNDERGROUND COMMUNICATION
- 13 EXISTING OVERHEAD COMMUNICATION

LEGEND

- | | |
|-----------|-------------------------------|
| CG - XX | CATTLE GUARD |
| TO - XX | TURNOUT/DRIVEWAY |
| DS - XX | DRAINAGE STRUCTURE |
| DSTO - XX | DRAINAGE STRUCTURE AT TURNOUT |
-  POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

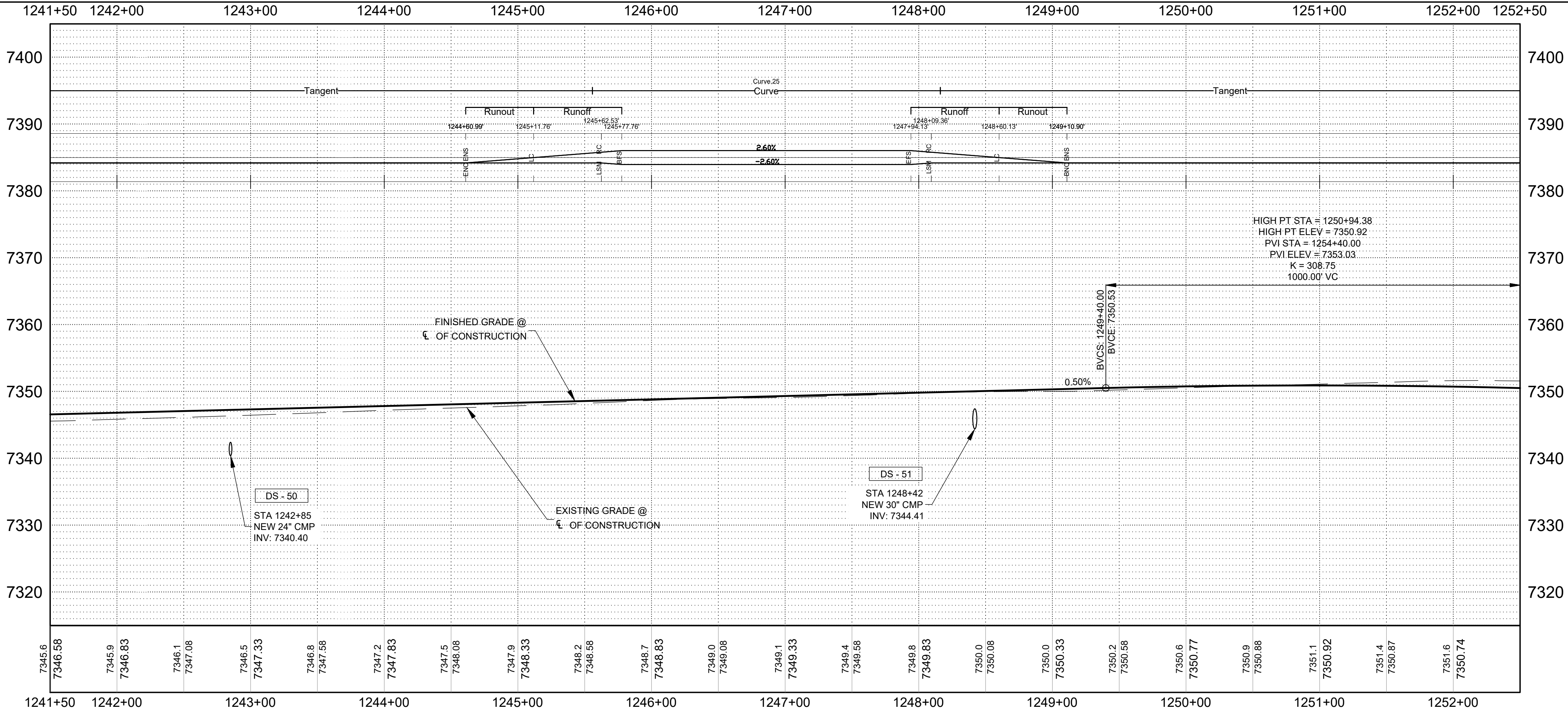
AGENCY LINE TO WHEATFIELDS LAKE

 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12			
		PLAN AND PROFILE			
	REVISIONS	NO.	DATE	REMARKS	BY
DESIGN		JEB	WCEA NO. 1710009012		DATE 2025
DRAWN		ERG			SHEET NO.
CHECK		ASF	N12		45 - 120



N12 PLAN VIEW

SCALE = 1 : 50



N12 PROFILE VIEW

VERT = 1 : 10

SCALE = 1 : 50

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	47	120

GENERAL NOTES

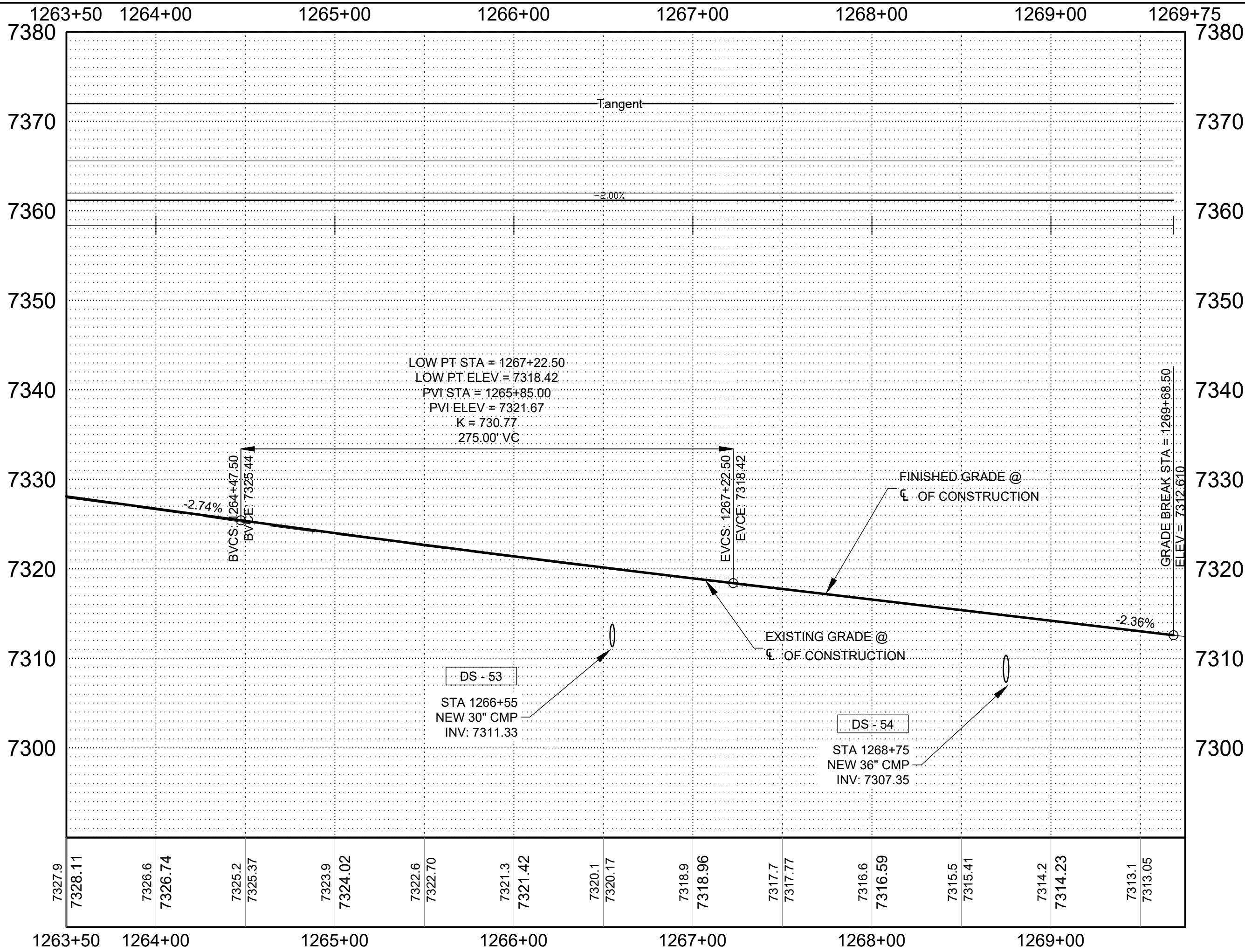
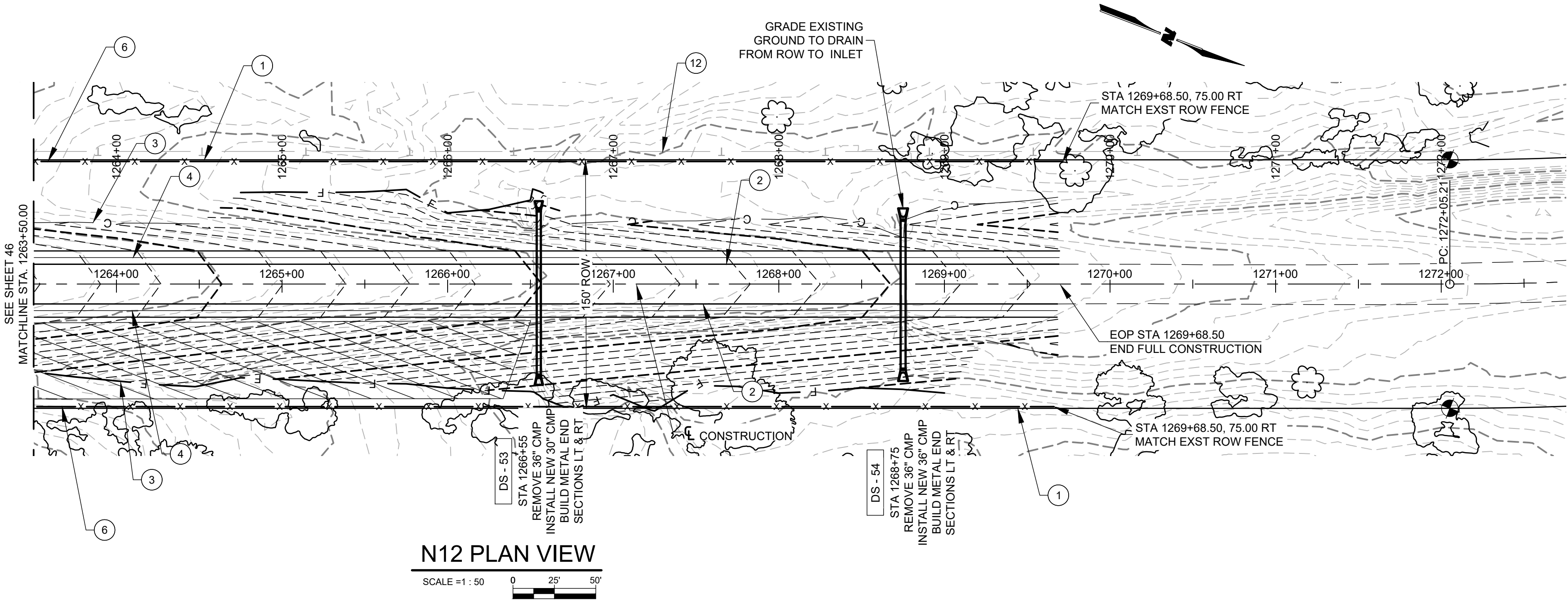
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 12 EXISTING UNDERGROUND COMMUNICATION

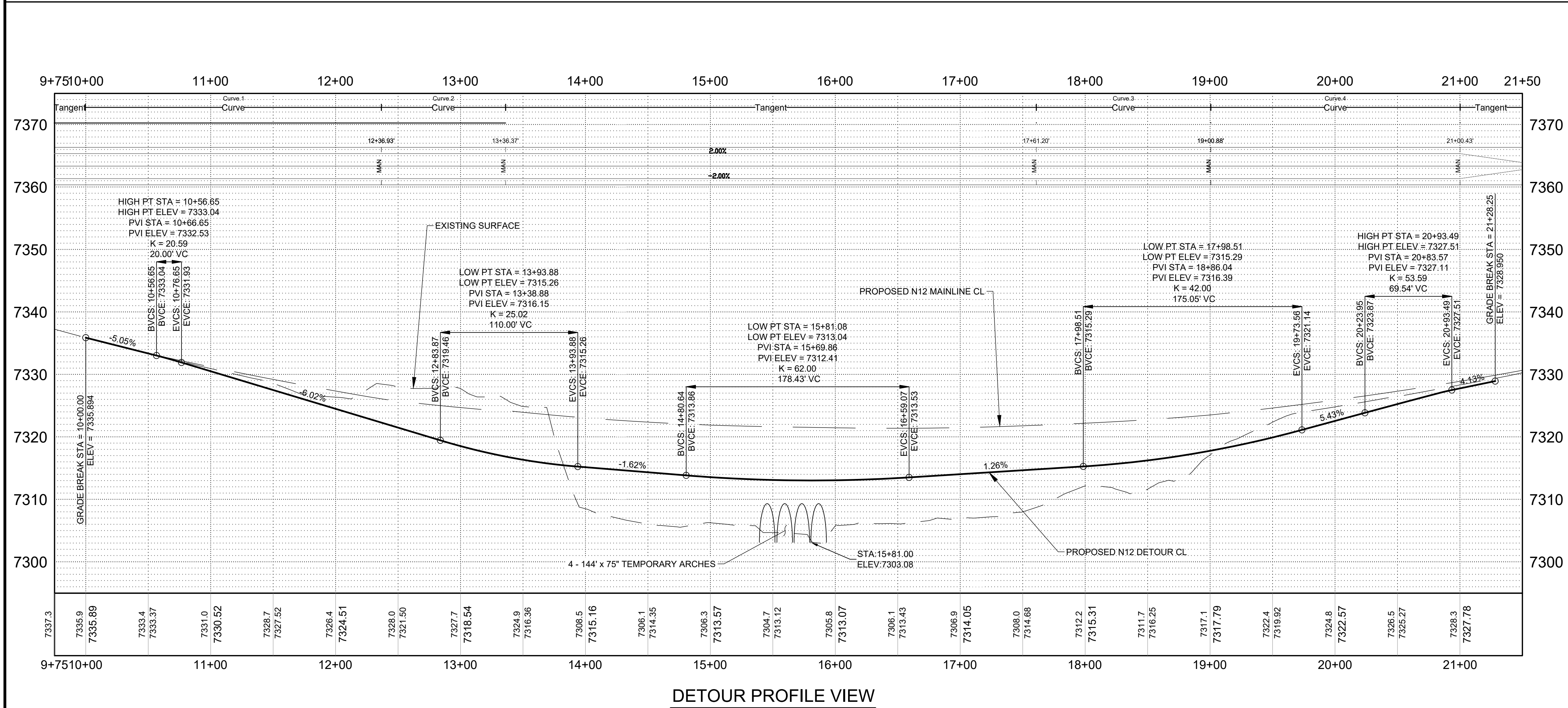
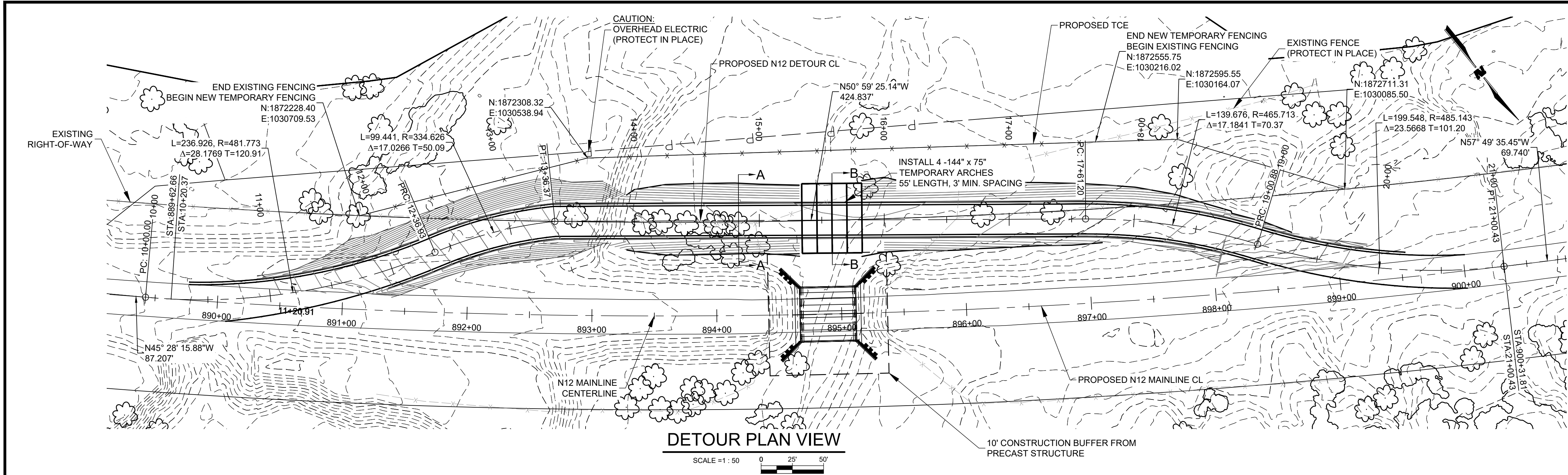
LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

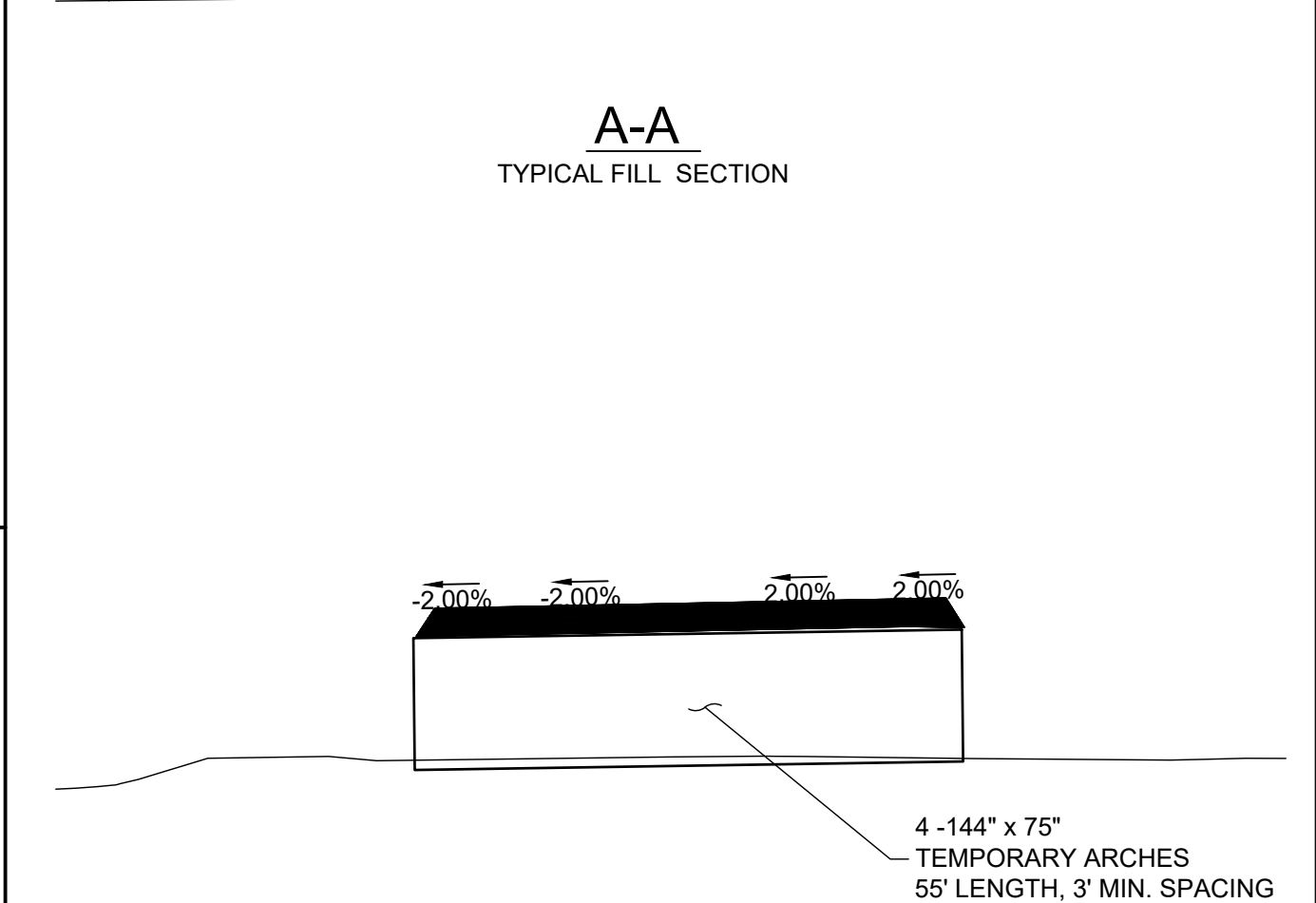
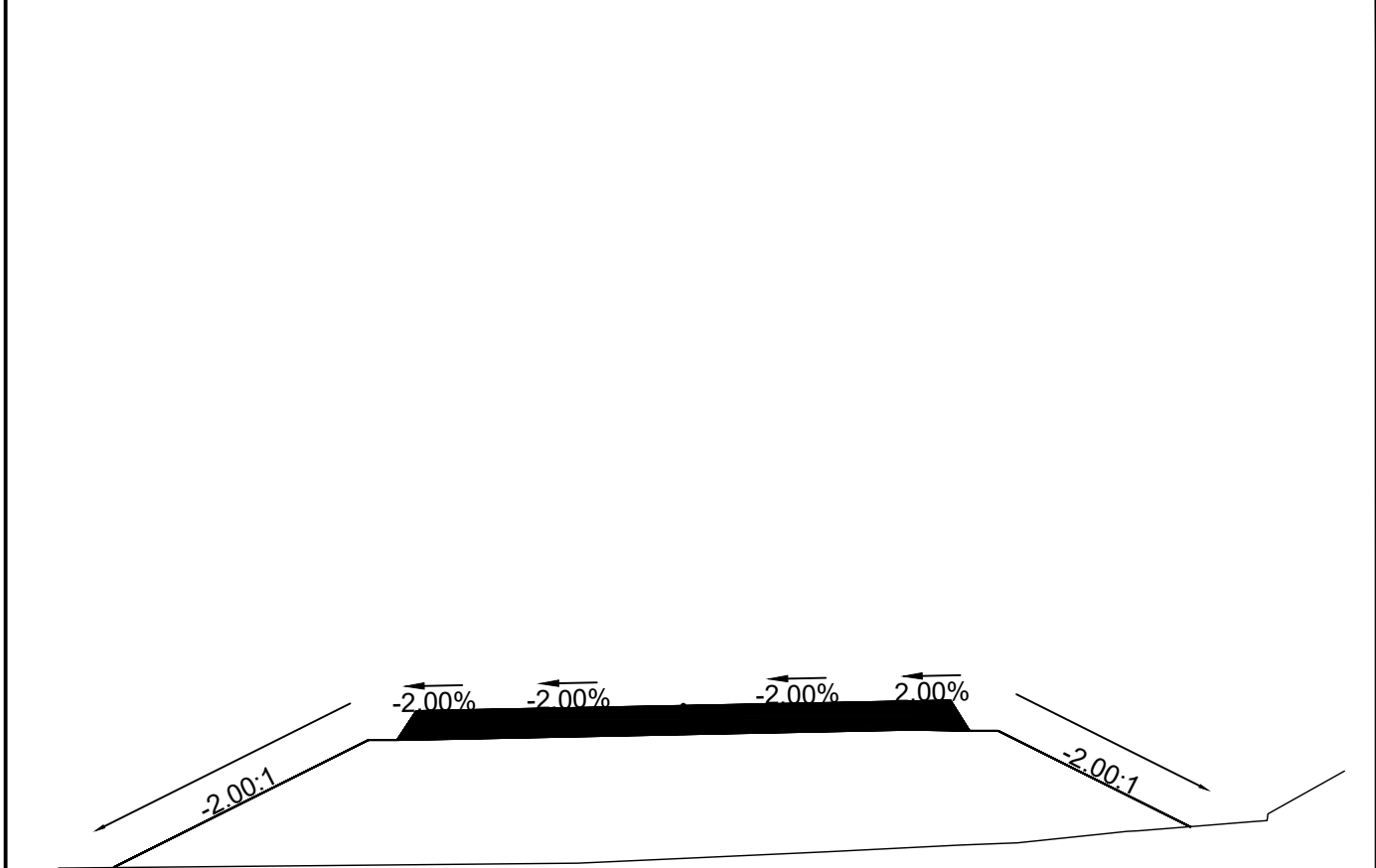


AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12			
	PLAN AND PROFILE			
	DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
	DRAWN	ERG		SHEET NO.
	CHECK	ASF	N12	47 - 120



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	48	120



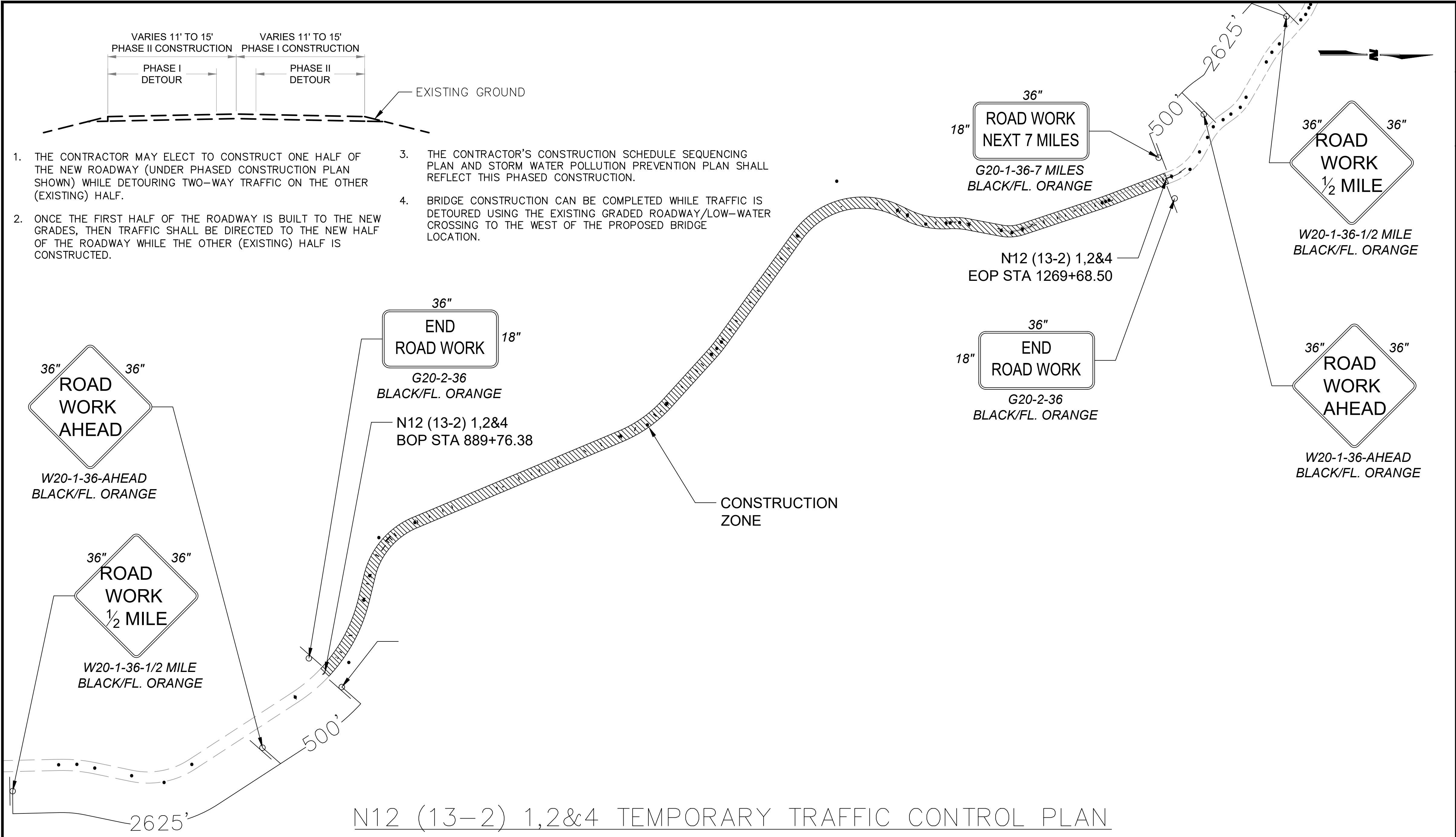
AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12
DETOUR

REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	48	120

76131
JOSHUA
BROWN
Civil Engineer
ARIZONA, U.S.A.

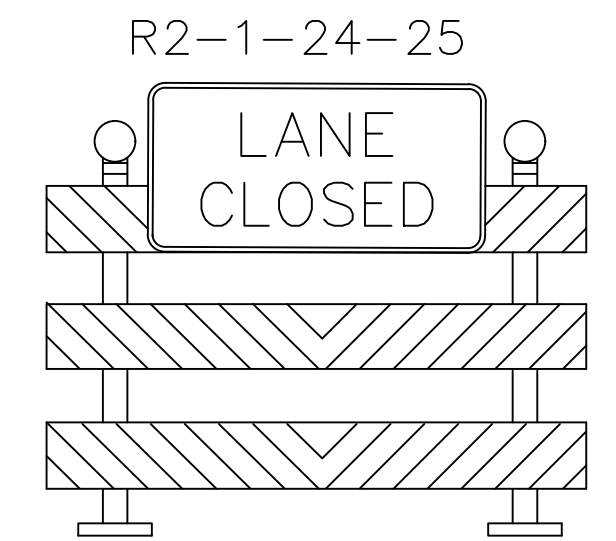


REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	49	120

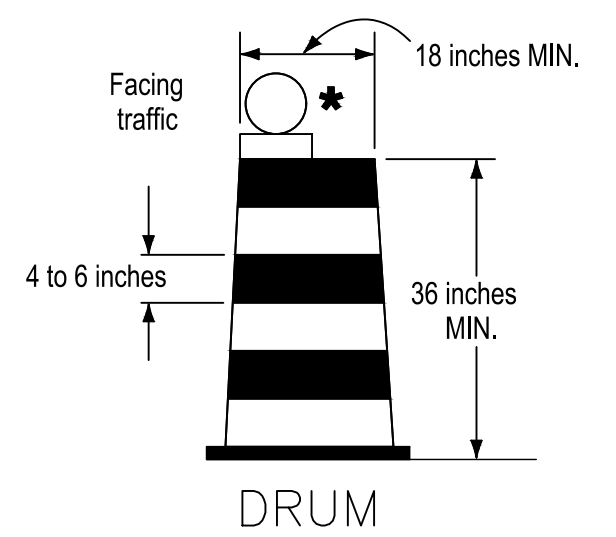
GENERAL NOTES

- ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND MUTCD (LATEST EDITION) RETROREFLECTIVITY STANDARDS.

SIGN FACE DETAILS

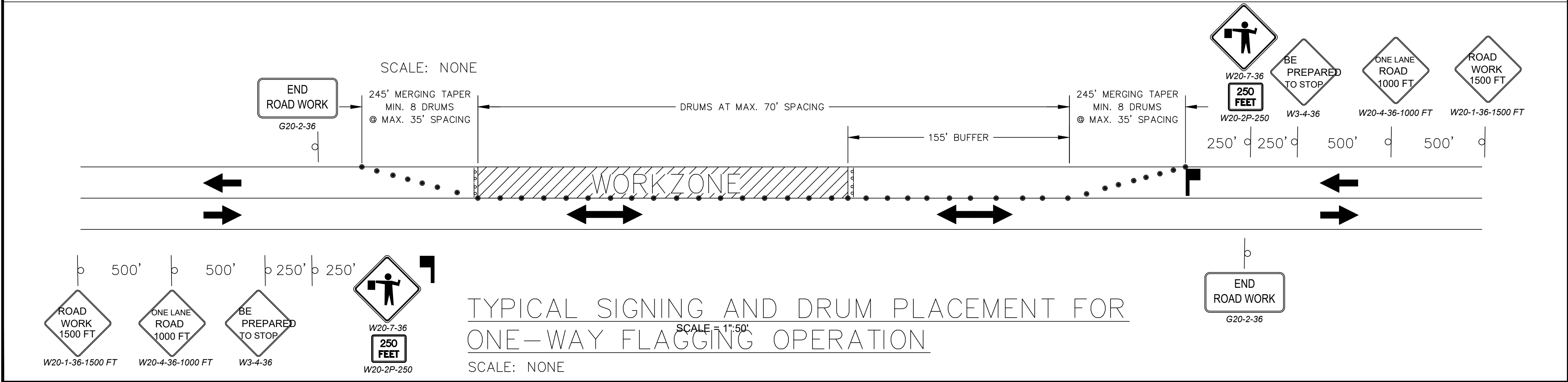


B-1LR-96
TYPE III (8')



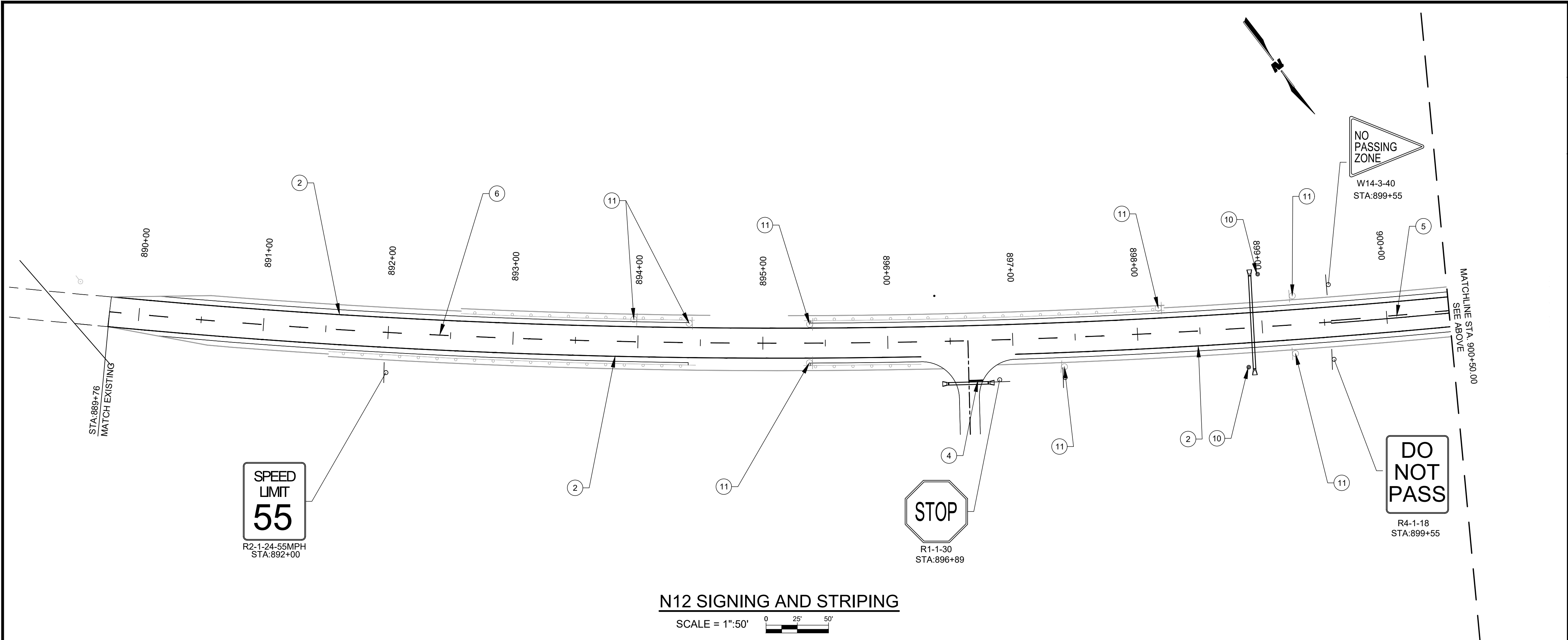
LEGEND

- TRAFFIC CONTROL SIGN
- DRUMS
- TYPE III BARRICADE
- WORK ZONE AREA



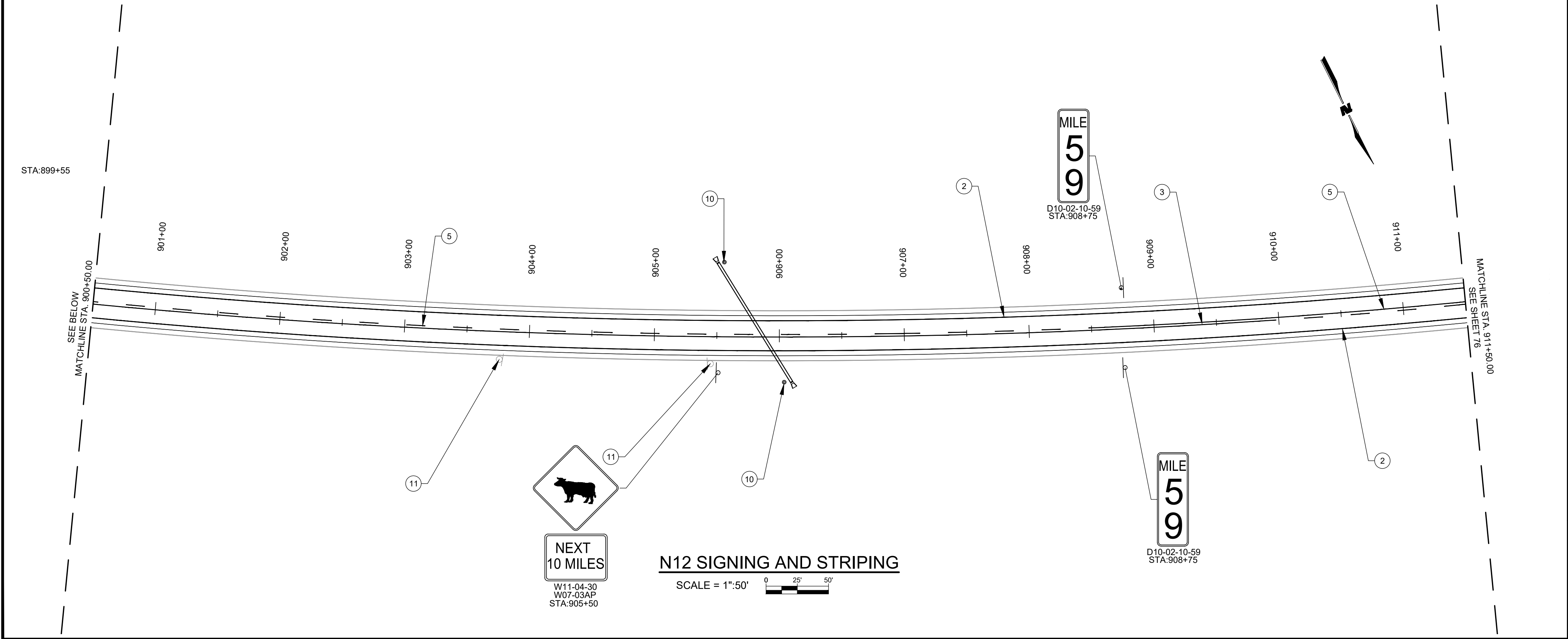
AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12	
		TEMPORARY TRAFFIC CONTROL	
	DESIGN	JEB	WCEA NO. 1710009012
	DRAWN	ERG	DATE 2025
	CHECK	ASF	SHEET NO. 49 - 120
			N12



N12 SIGNING AND STRIPING

SCALE = 1"=50'



N12 SIGNING AND STRIPING

SCALE = 1"=50'



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	51	120

GENERAL NOTES

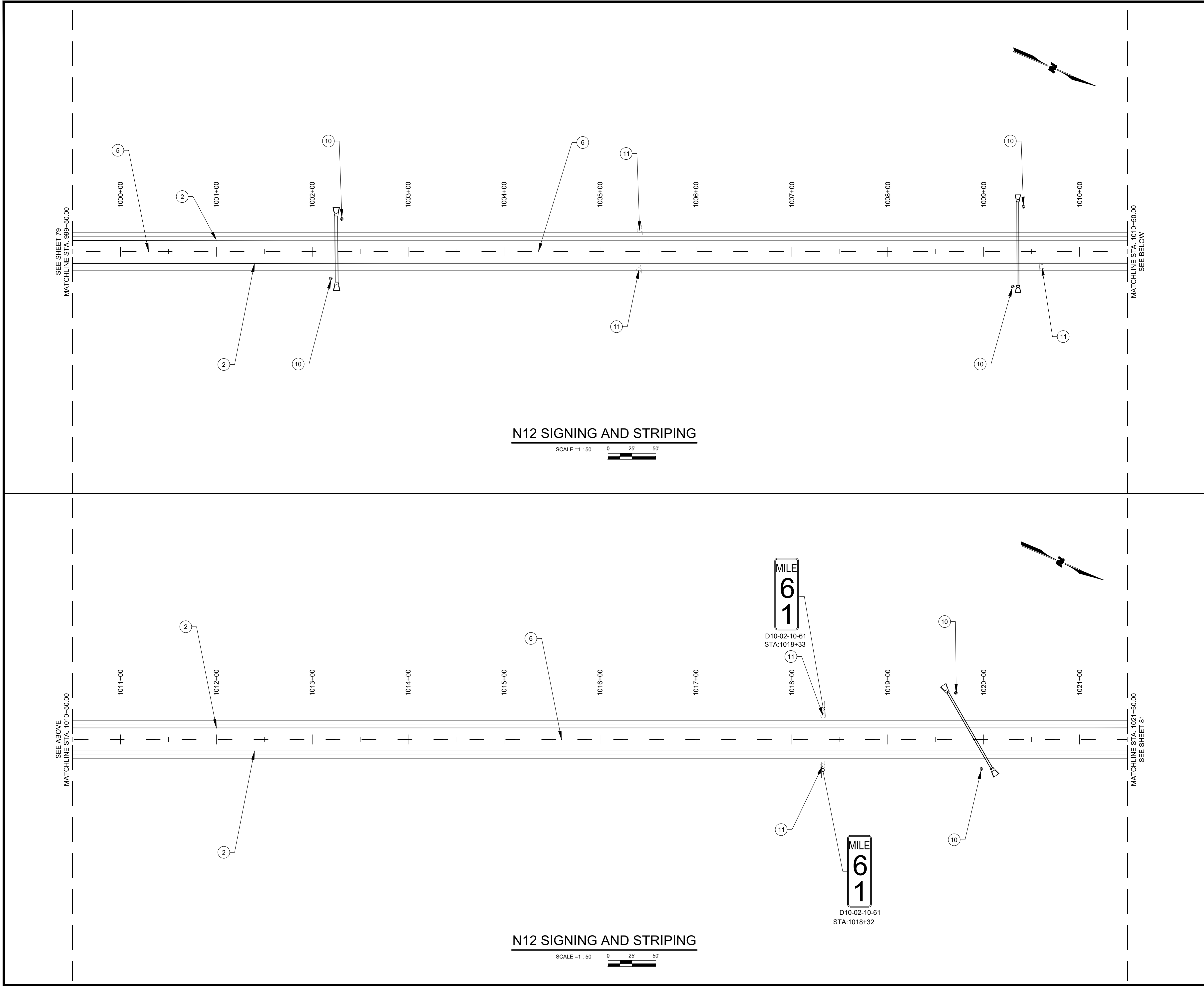
- ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

KEYNOTES

- EXISTING ROW
- REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
- REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
- REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
- REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
- REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
- TYPE II OBJECT MARKER
- REMOVE EXISTING SIGN

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701 Professional Engineer CERTIFICATE NO. 76131 JOSHUA BROWN State Signed: 03/29/2005 ARIZONA, U.S.A.	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
		DESIGN	JEB	WCEA NO. 1710009012	DATE
	DRAWN	ERG	N12	SHEET NO.	
	CHECK	ASF		51 - 120	



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	56	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

KEYNOTES

- 1 EXISTING ROW
- 2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
- 5 REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
- 6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
- 10 TYPE II OBJECT MARKER
- 11 REMOVE EXISTING SIGN

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
	DRAWN	ERG		SHEET NO.	
	CHECK	ASF	N12	56	-120

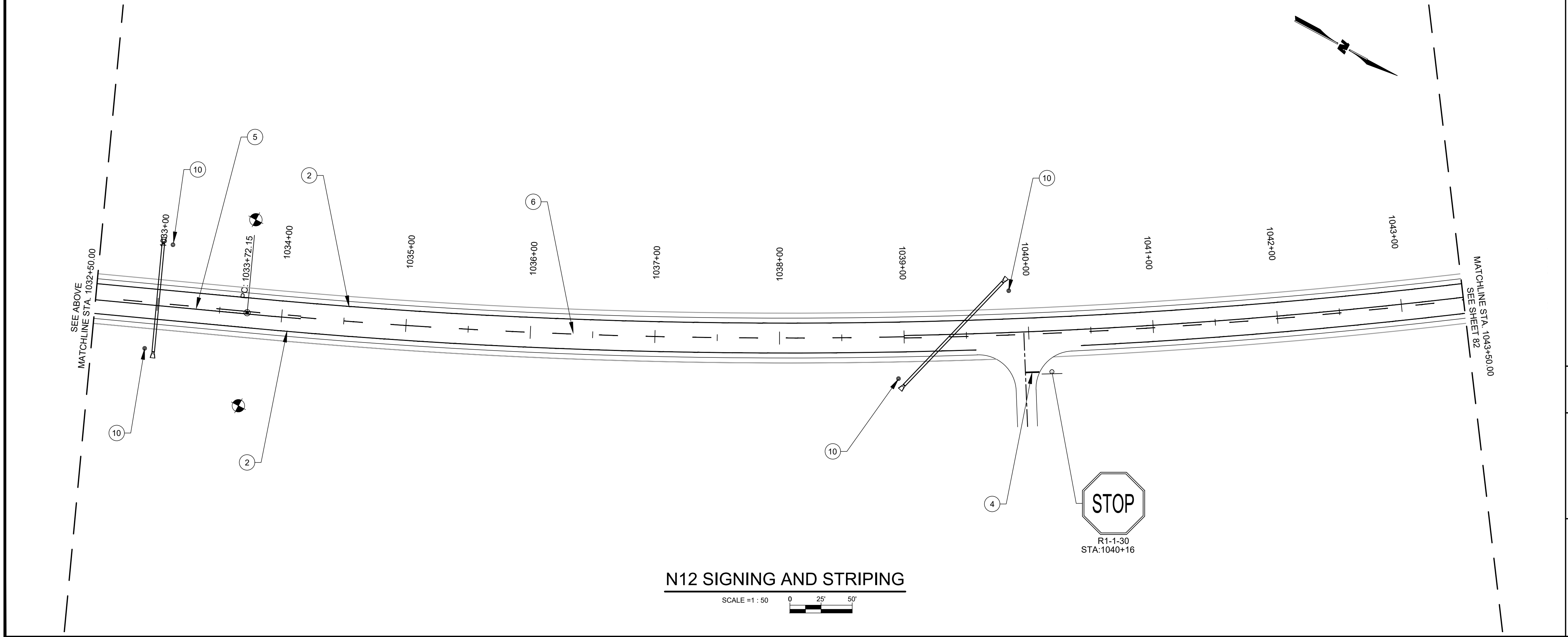
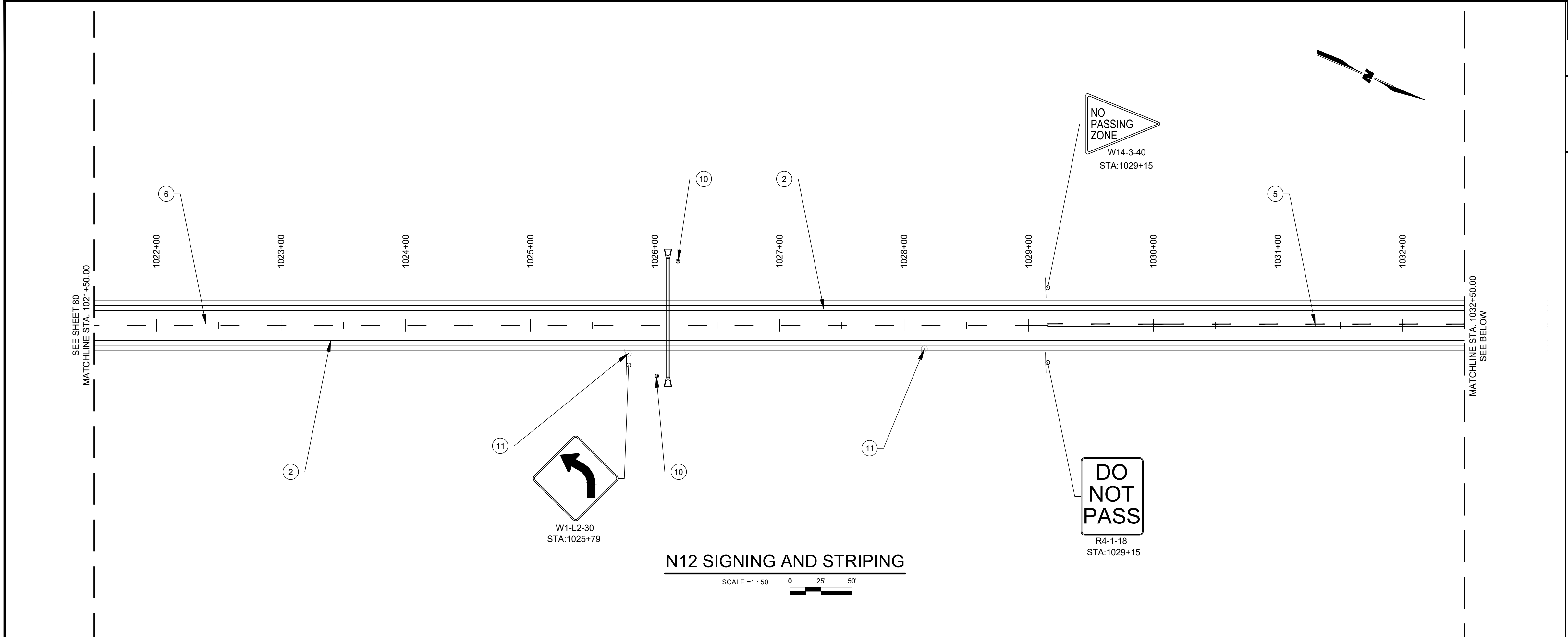
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	57	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

KEYNOTES

- ① EXISTING ROW
② REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
③ REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
④ REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
⑤ REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
⑥ REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
⑩ TYPE II OBJECT MARKER
⑪ REMOVE EXISTING SIGN



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12			
	SIGNING AND STRIPING			
	REVISIONS	NO.	DATE	REMARKS
	DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
	DRAWN	ERG		SHEET NO.
	CHECK	ASF	N12	57 - 120

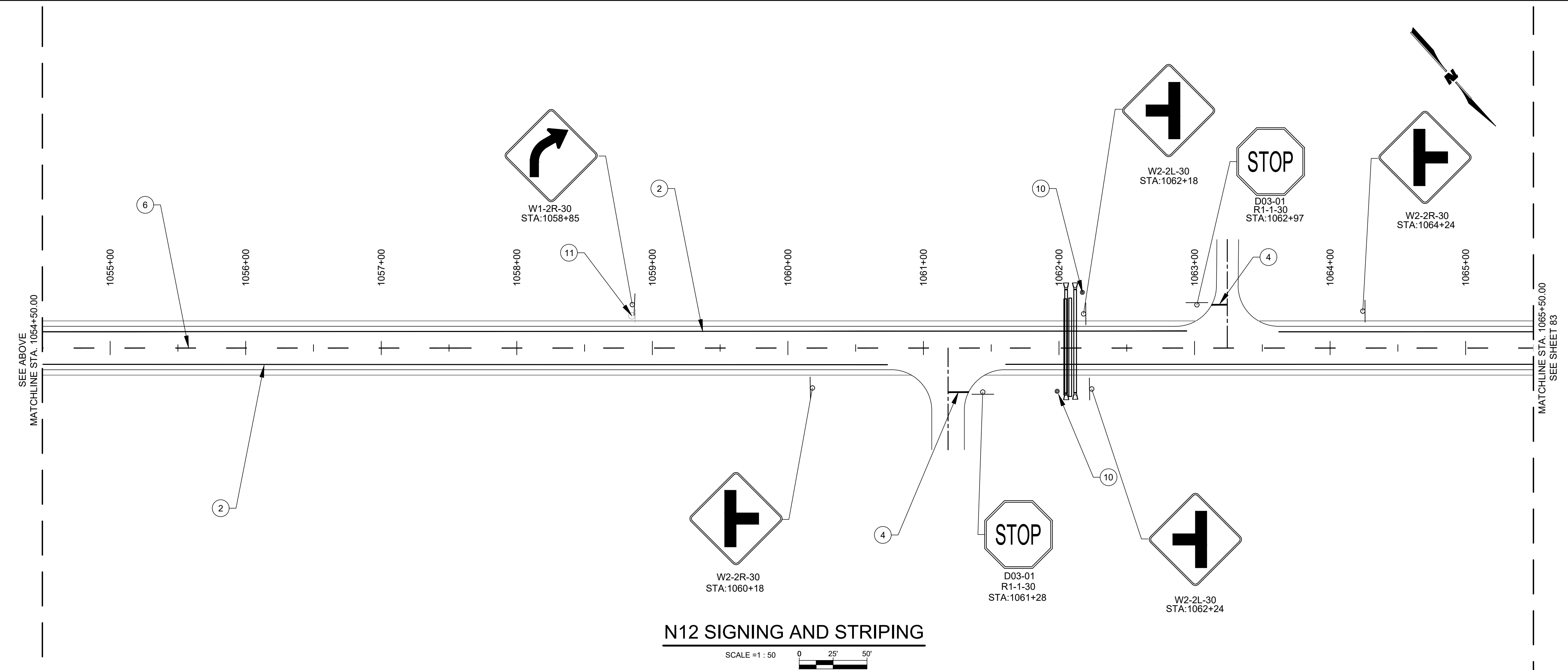
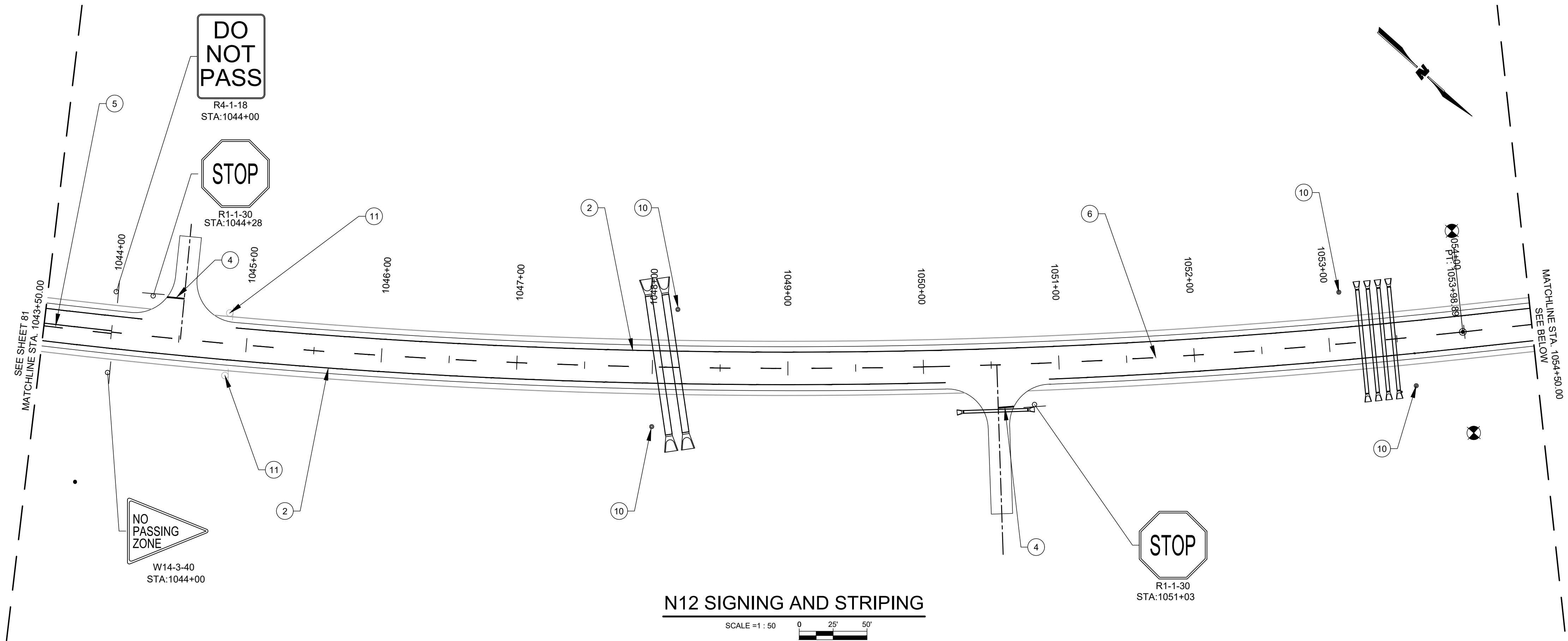
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	58	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

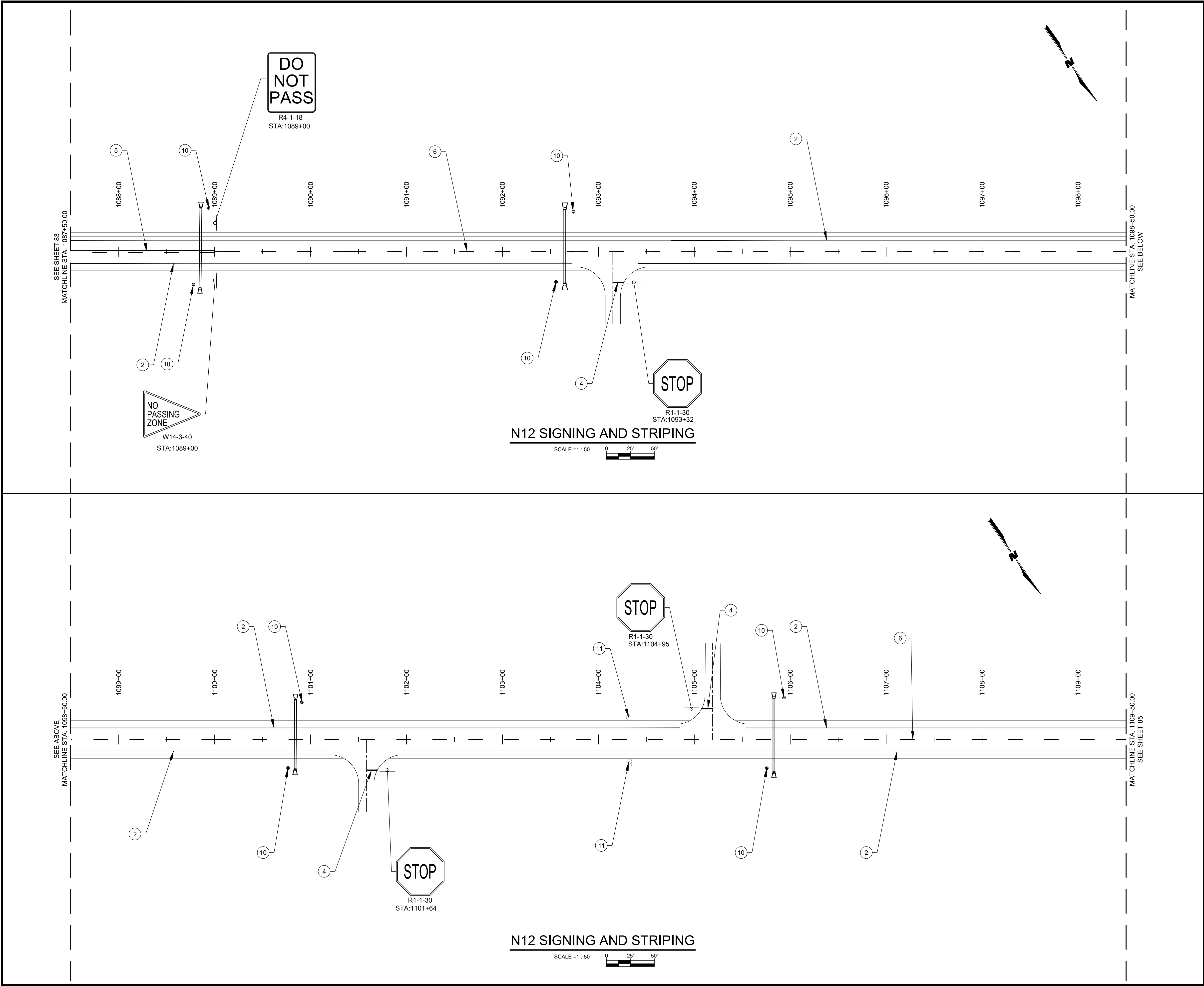
KEYNOTES

- 1 EXISTING ROW
2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
4 REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
5 REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
10 TYPE II OBJECT MARKER
11 REMOVE EXISTING SIGN



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12			
	SIGNING AND STRIPING			
	DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
	DRAWN	ERG		SHEET NO.
	CHECK	ASF	N12	58 - 120
	NO.	DATE	REMARKS	BY



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	60	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

KEYNOTES

- 1 EXISTING ROW
- 2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
- 3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
- 5 REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
- 6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
- 10 TYPE II OBJECT MARKER
- 11 REMOVE EXISTING SIGN

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012		DATE	2025
DRAWN	ERG			SHEET NO.	
CHECK	ASF	N12		60 - 120	

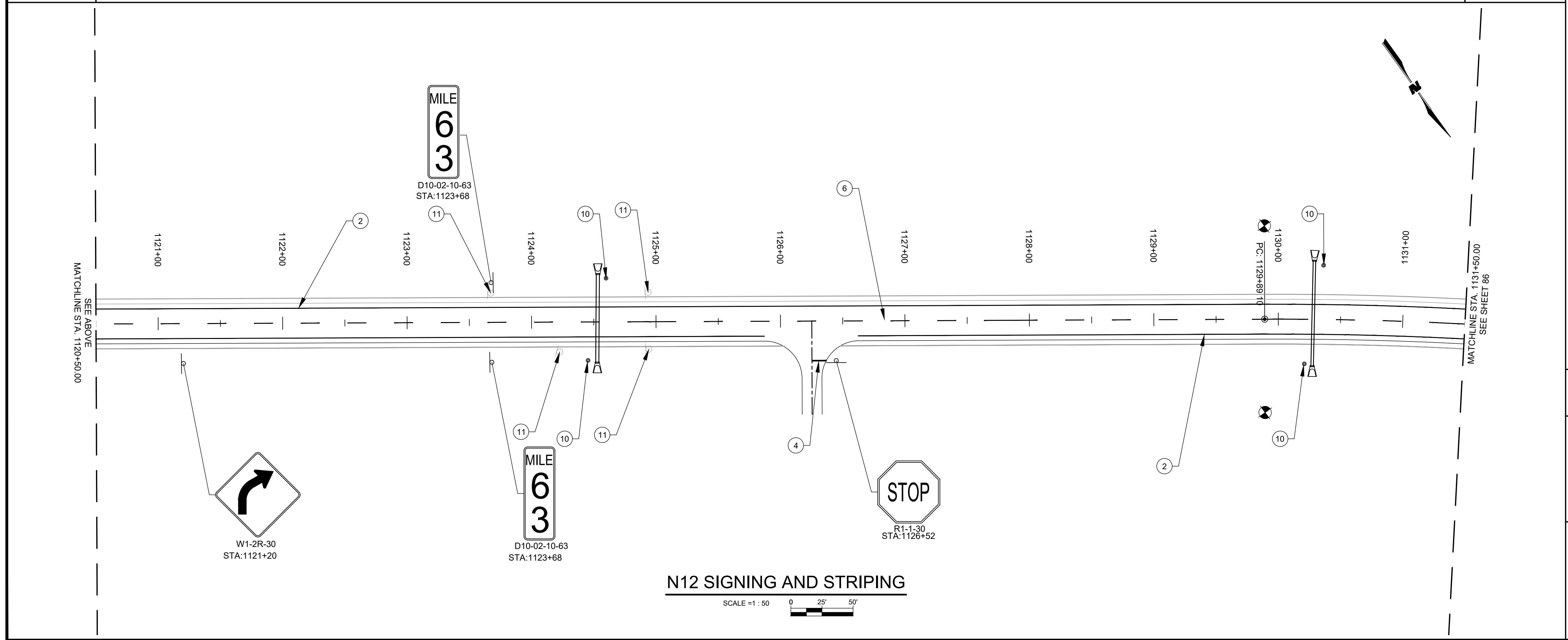
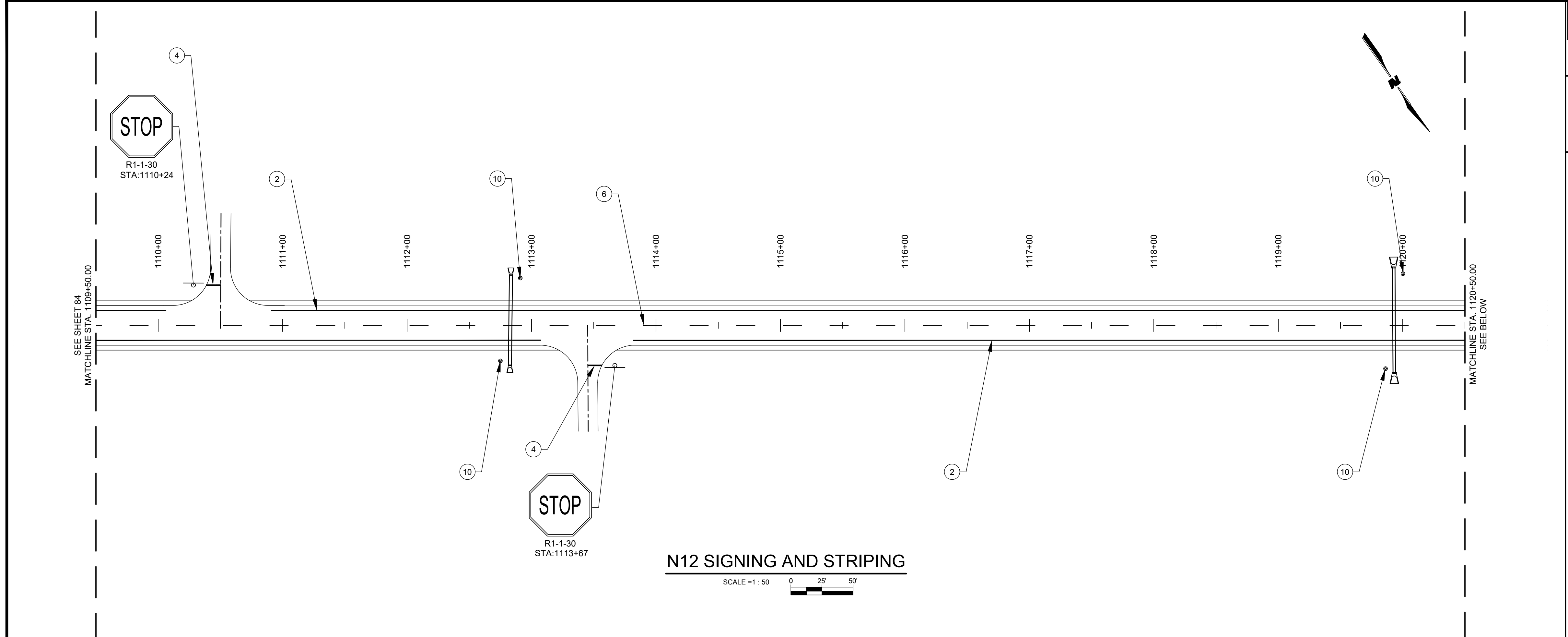
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	61	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

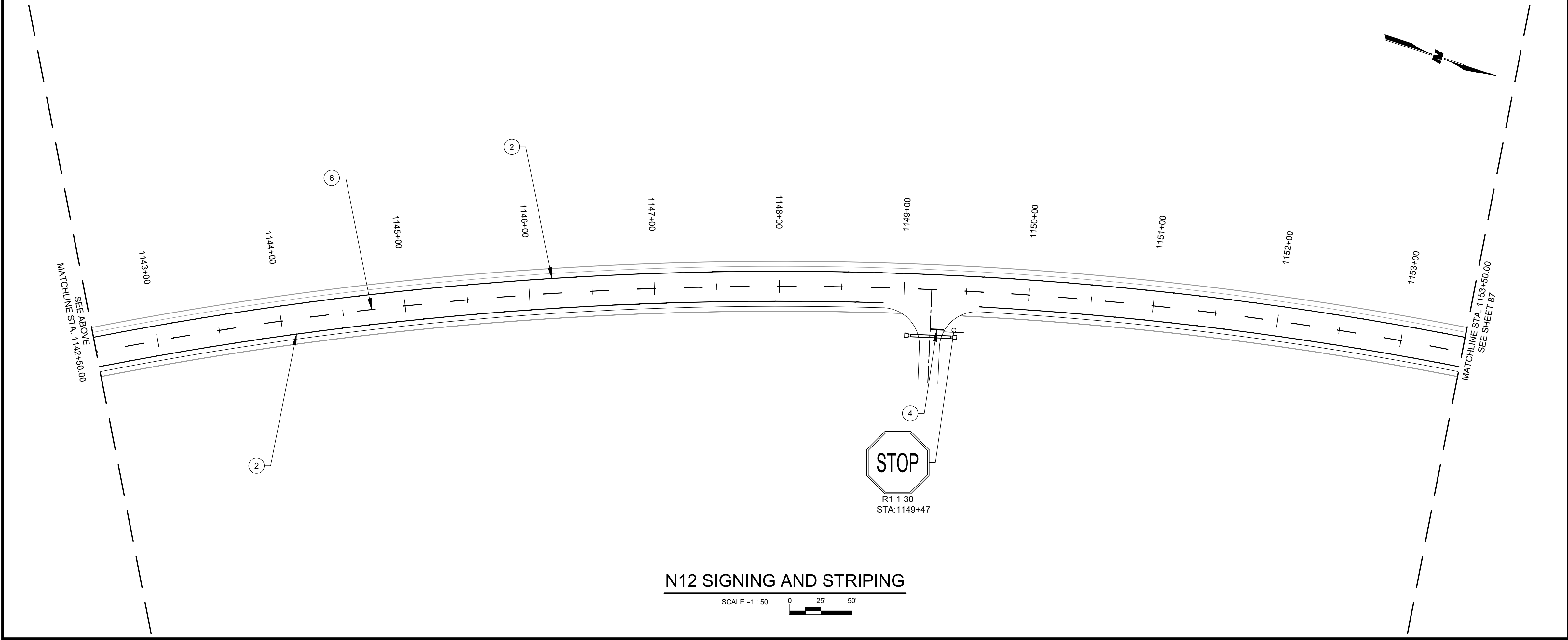
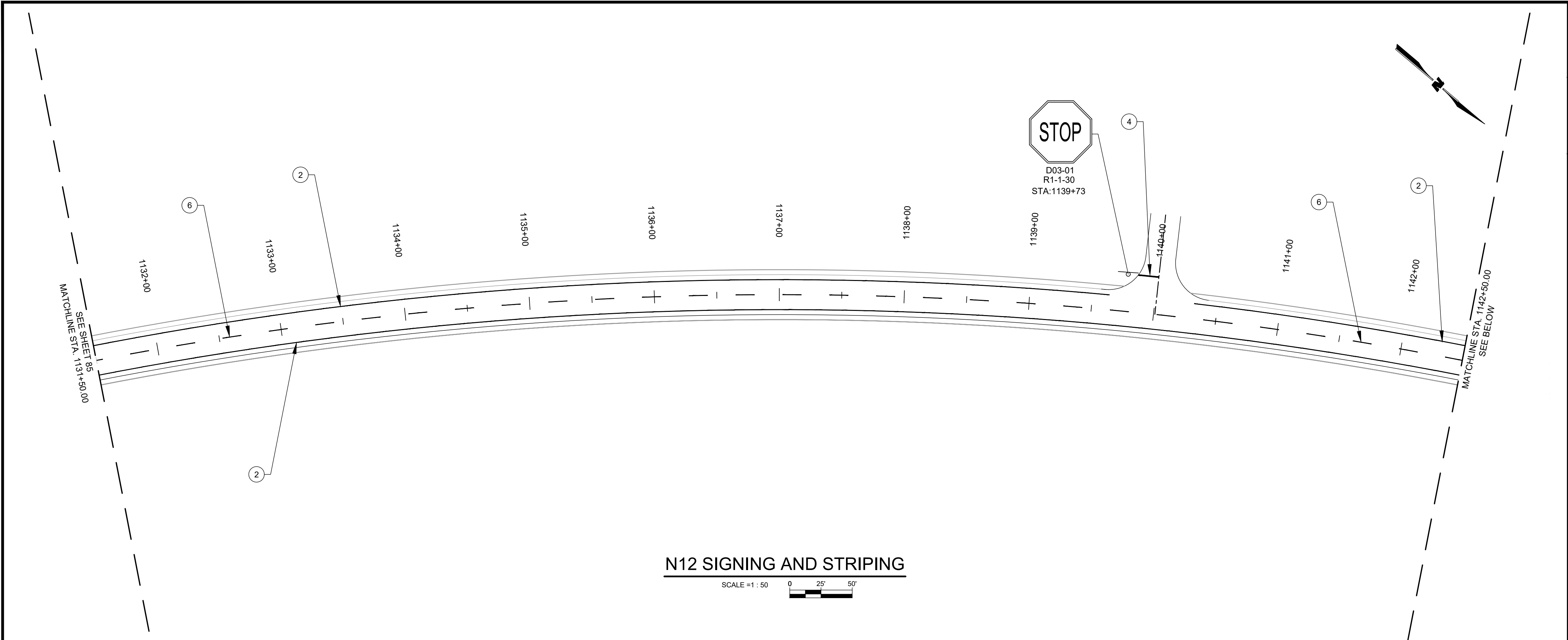
KEYNOTES

- 1 EXISTING ROW
2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
4 REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
5 REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
10 TYPE II OBJECT MARKER
11 REMOVE EXISTING SIGN



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12			
	SIGNING AND STRIPING			
	REVISIONS	NO.	DATE	REMARKS
	DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
	DRAWN	ERG		SHEET NO.
	CHECK	ASF	N12	61 - 120



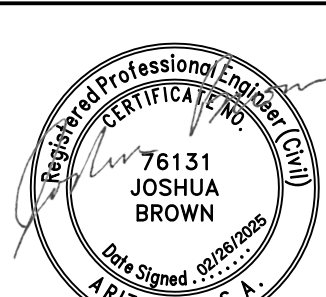
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	62	120

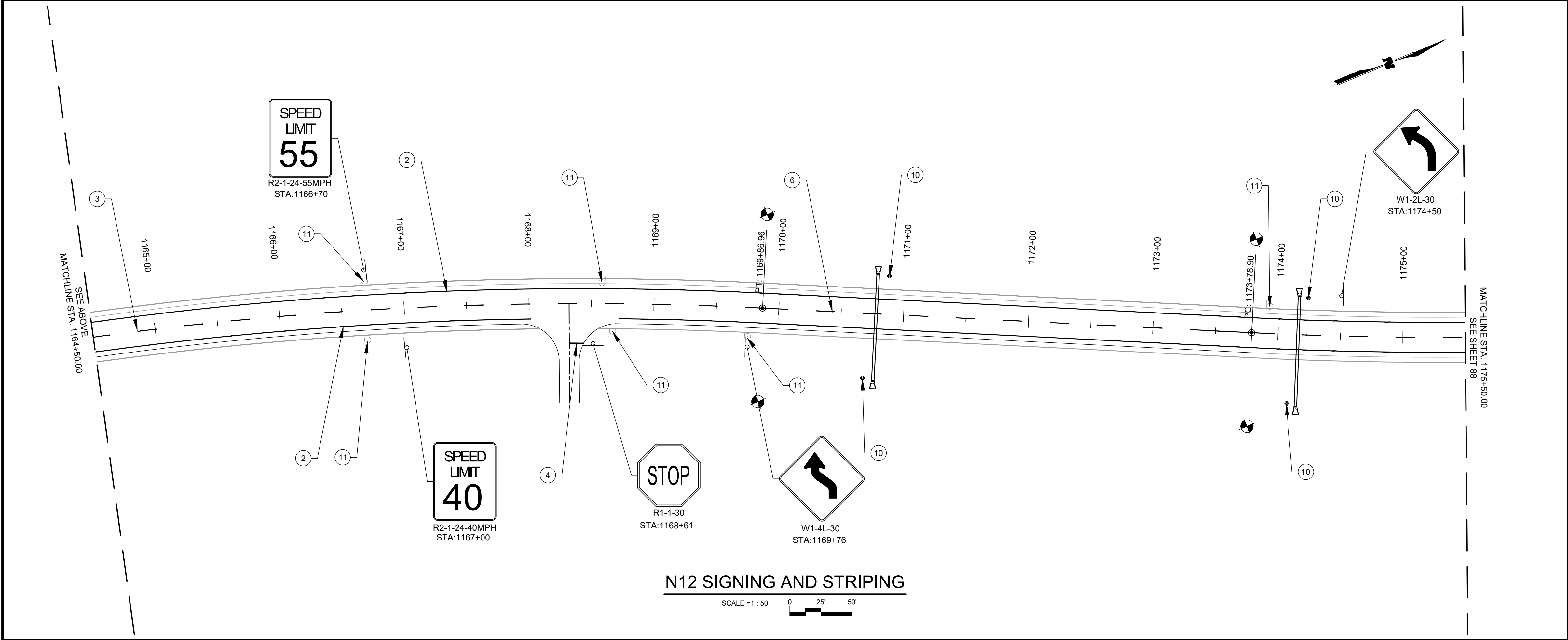
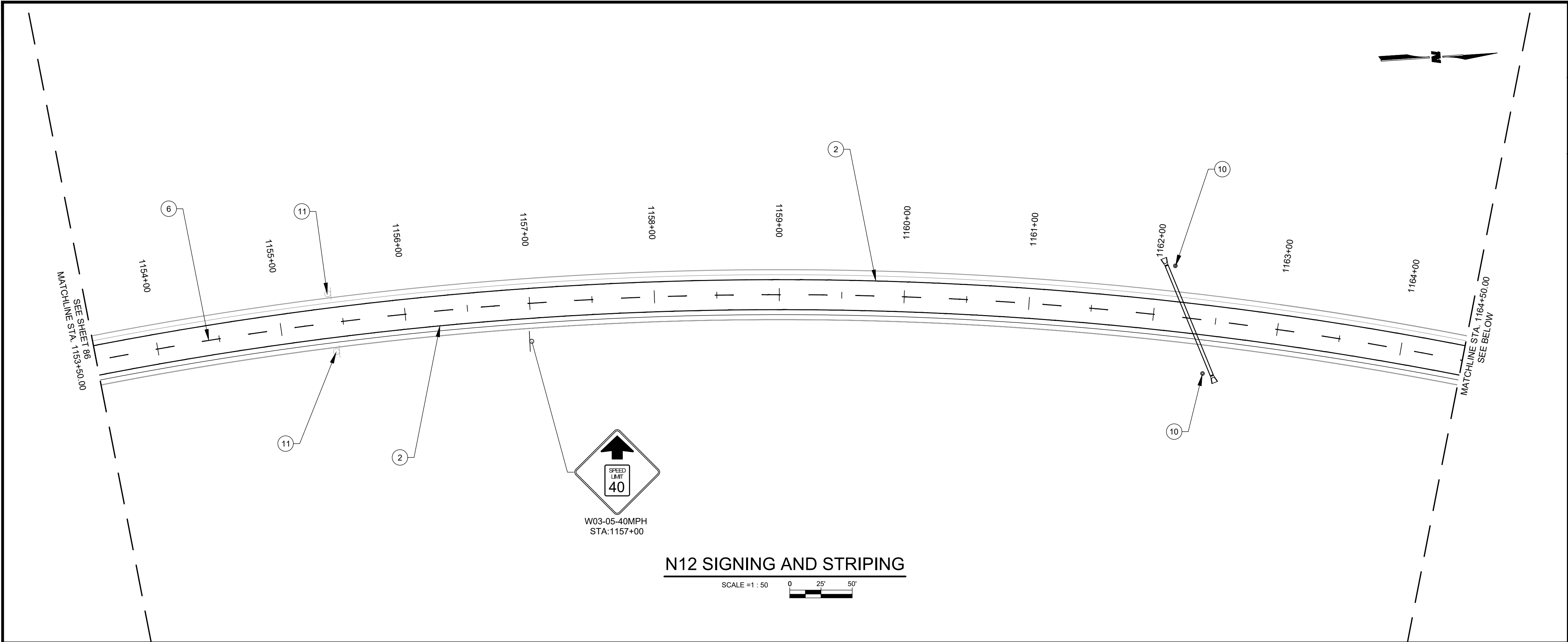
GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

- KEYNOTES**
- 1 EXISTING ROW
 - 2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
 - 3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
 - 4 REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
 - 6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
 - 10 TYPE II OBJECT MARKER

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012		DATE 2025
DRAWN	ERG			SHEET NO.	
CHECK	ASF	N12		62 - 120	



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	63	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

- KEYNOTES**
- 1 EXISTING ROW
 - 2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
 - 3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
 - 4 REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
 - 6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
 - 10 TYPE II OBJECT MARKER

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

SIGNING AND STRIPING

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DRAWN

CHECK

JEB
ERG
ASF

WCEA NO. 1710009012

DATE

2025

SHEET NO.

63 - 120

Registered Professional Engineer (Civil)
76131
JOSHUA
BROWN
Data Signed: 07/29/2025
ARIZONA, U.S.A.

W1-2L-30
STA:1174+50

R1-1-30
STA:1168+61

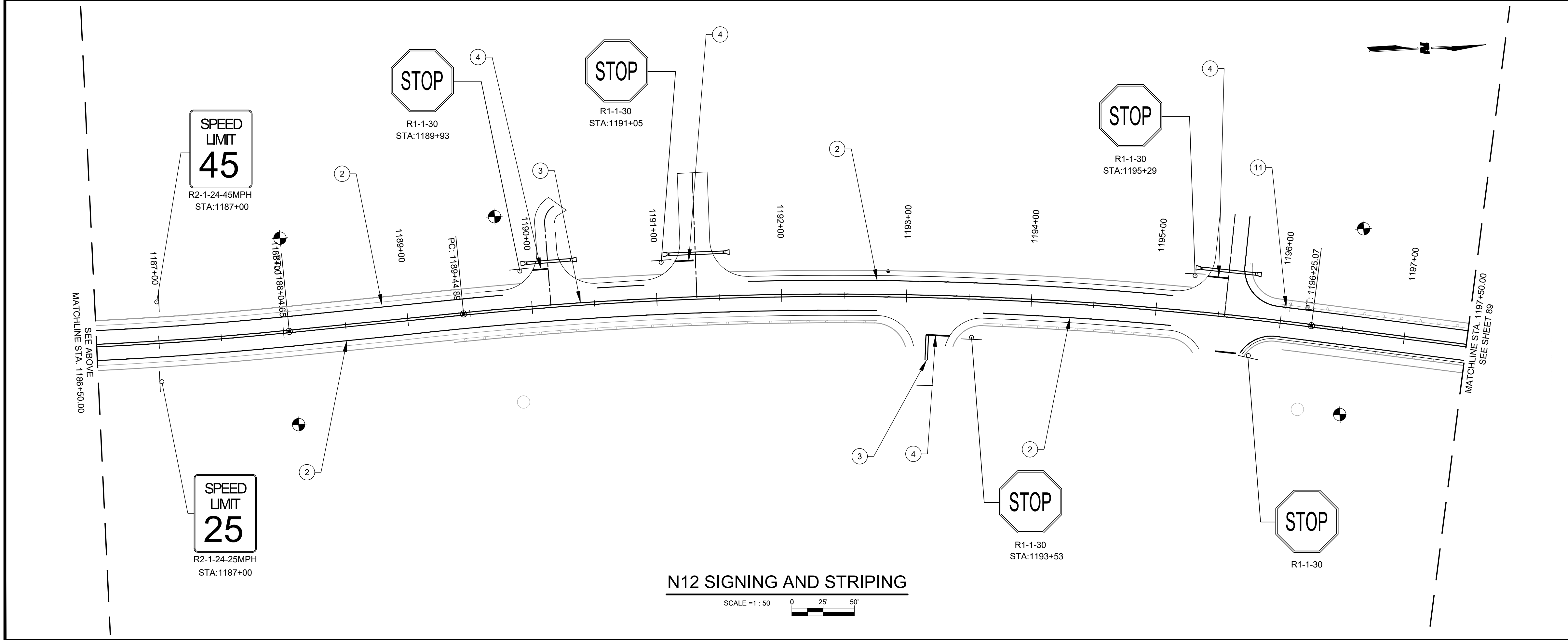
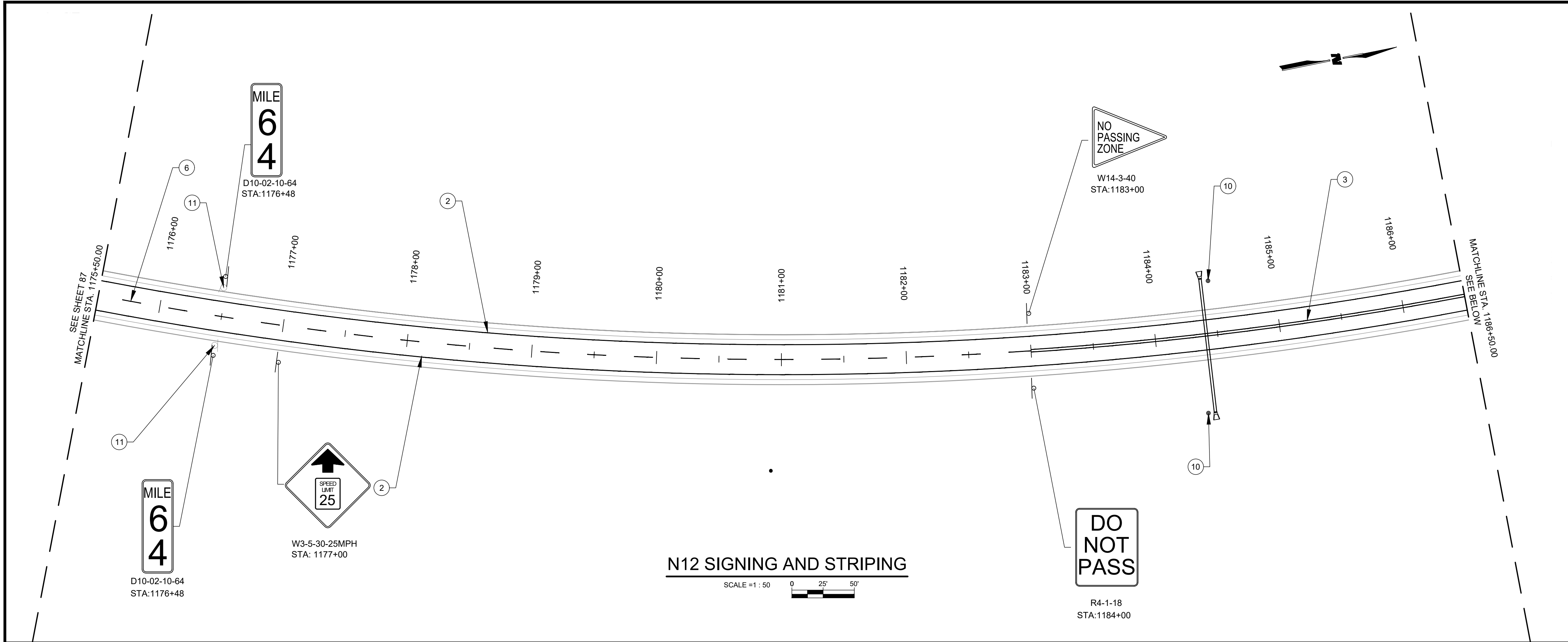
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STA:1169+76

R2-1-24-55MPH
STA:1166+70

R2-1-24-40MPH
STA:1167+00

PT: 1169+86.96

PC: 1173+78.90



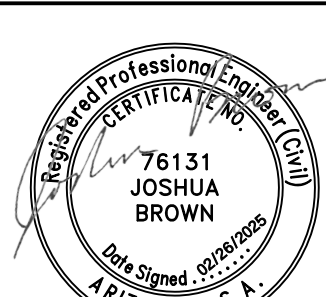
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	64	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

- KEYNOTES**
- 1 EXISTING ROW
 - 2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
 - 3 REFLECTORIZED PAINTED MARKING - 4" SOLID DOUBLE YELLOW
 - 4 REFLECTORIZED PAINTED MARKING - 24" SOLID SINGLE WHITE
 - 5 REFLECTORIZED PAINTED MARKING - 4" SOLID & SKIP YELLOW
 - 6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
 - 10 TYPE II OBJECT MARKER
 - 11 REMOVE EXISTING SIGN

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.		
CHECK	ASF	N12	64 -120		



ALPHABETIC LINE TO WHEATFIELDS LAKE

WILSON

& COMPANY

410 NORTH 44TH STREET

SUITE 460

PHOENIX, AZ 85008

(602) 283-2701

Professional Engineer (Civil)

76131

JOSHUA BROWN

Date Signed Expires

ARIZONA, U.S.A.

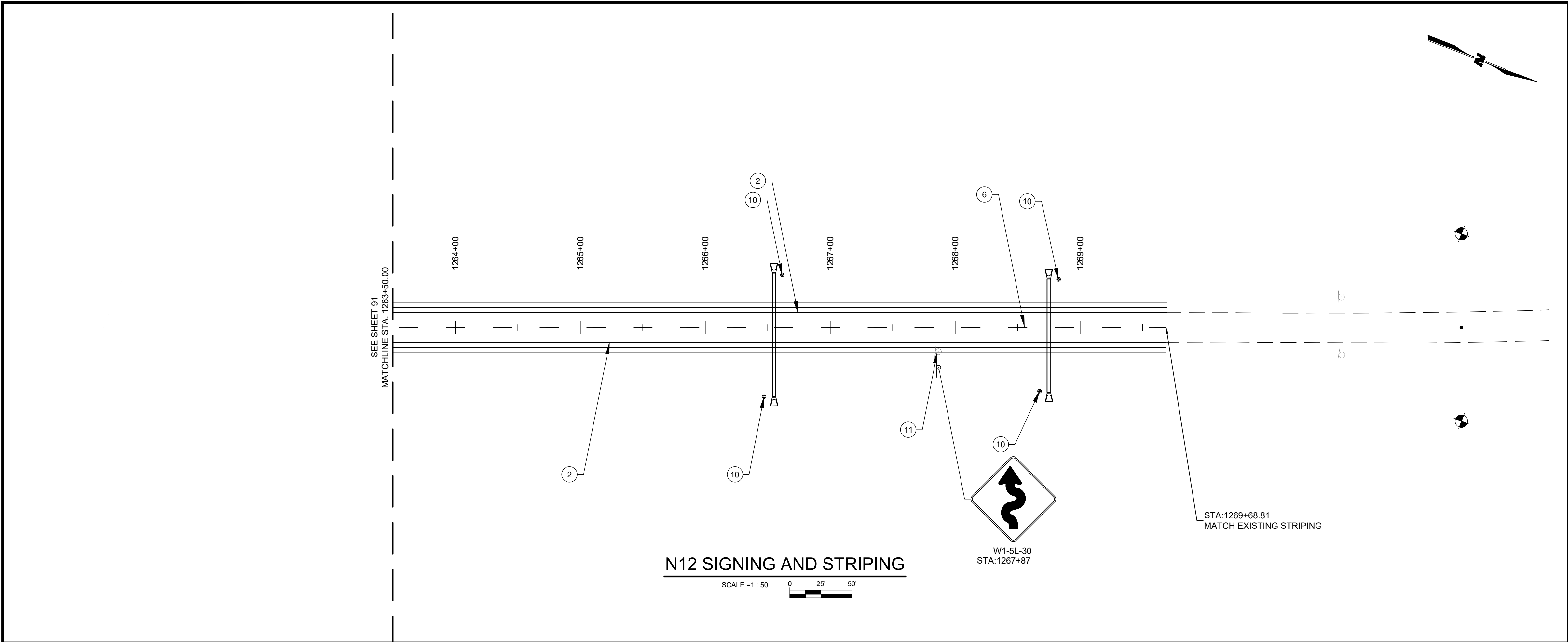
ROUTE N12

SIGNING AND STRIPING

REVIEWS

NO.	DATE	REMARKS	BY

DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12		66 - 120



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	68	120

GENERAL NOTES

1. ALL NEW SIGNING AND STRIPING SHALL COMPLY WITH THE FHWA AND 2009 MUTCD RETROREFLECTIVITY STANDARDS.

KEYNOTES

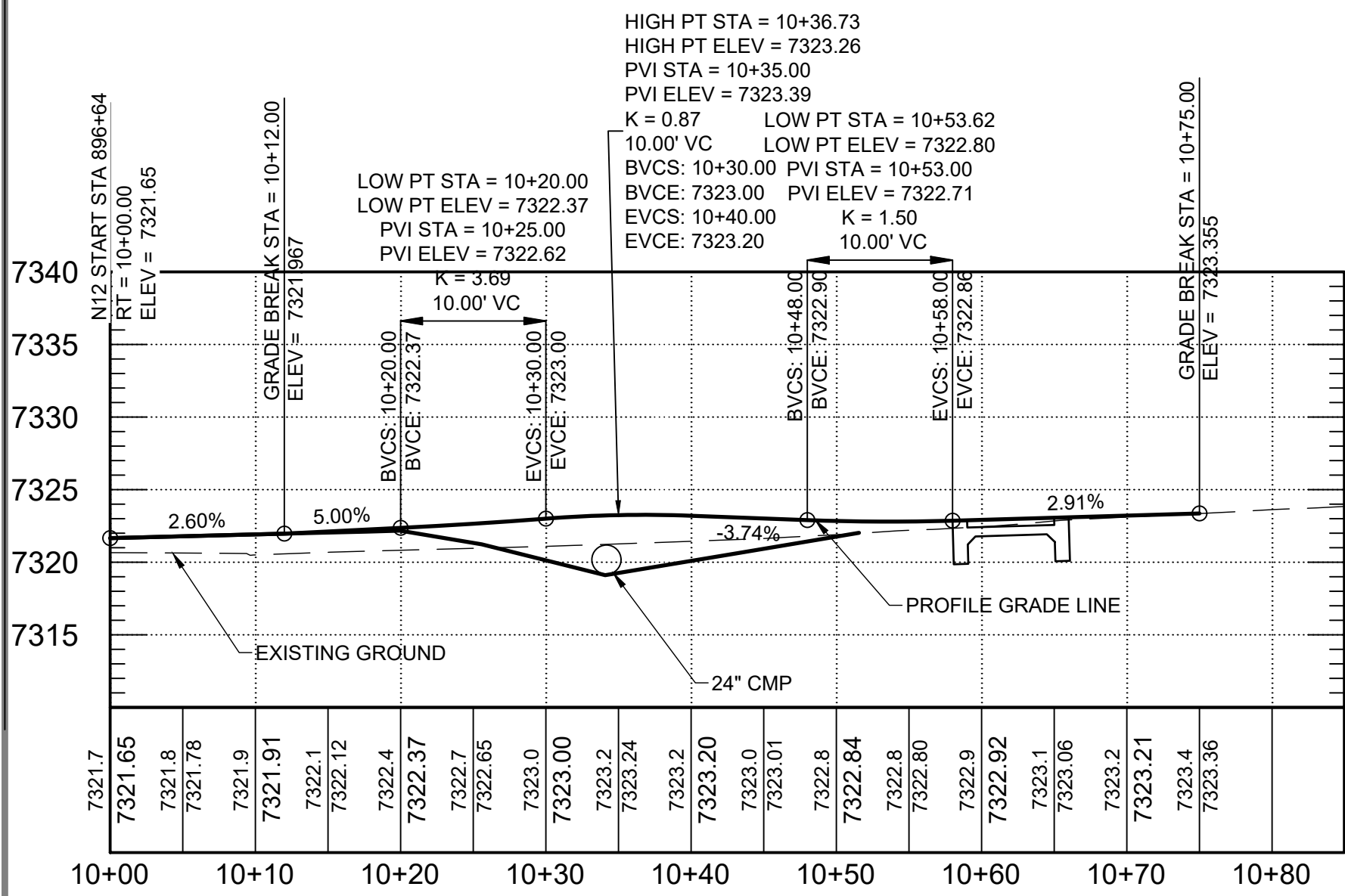
- 1 EXISTING ROW
2 REFLECTORIZED PAINTED MARKING - 4" SOLID SINGLE WHITE
6 REFLECTORIZED PAINTED MARKING - 4" SKIP YELLOW
10 TYPE II OBJECT MARKER
11 REMOVE EXISTING SIGN

AGENCY LINE TO WHEATFIELDS LAKE

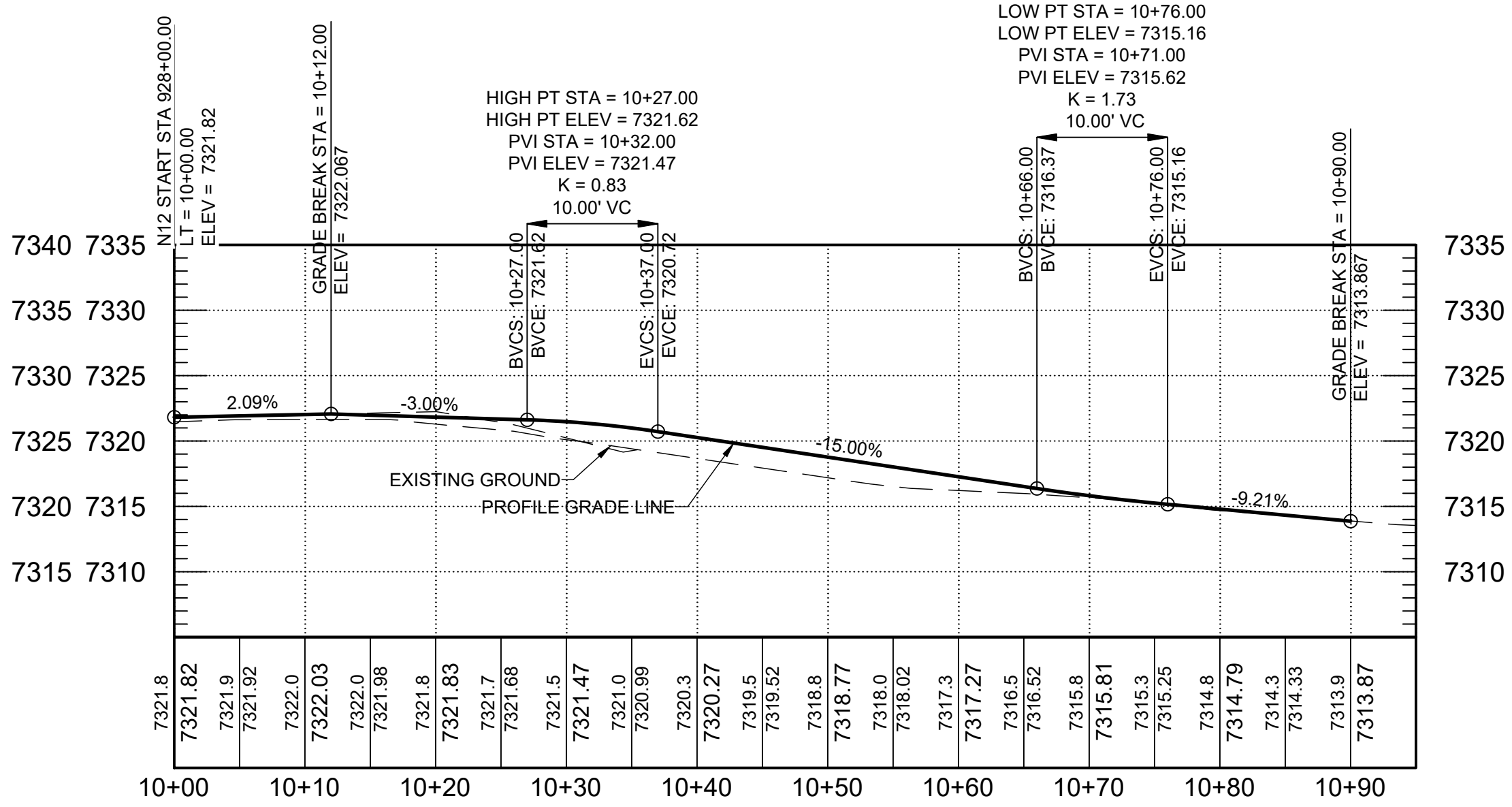
WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701 Professional Engineer CERTIFICATE NO. 76131 JOSHUA BROWN Date Signed: 03/29/2025 ARIZONA, U.S.A.	ROUTE N12				
	SIGNING AND STRIPING				
	REVISIONS	NO.	DATE	REMARKS	BY
		DESIGN	JEB	WCEA NO. 1710009012	DATE
	DRAWN	ERG	N12	SHEET NO.	68 - 120
	CHECK	ASF			

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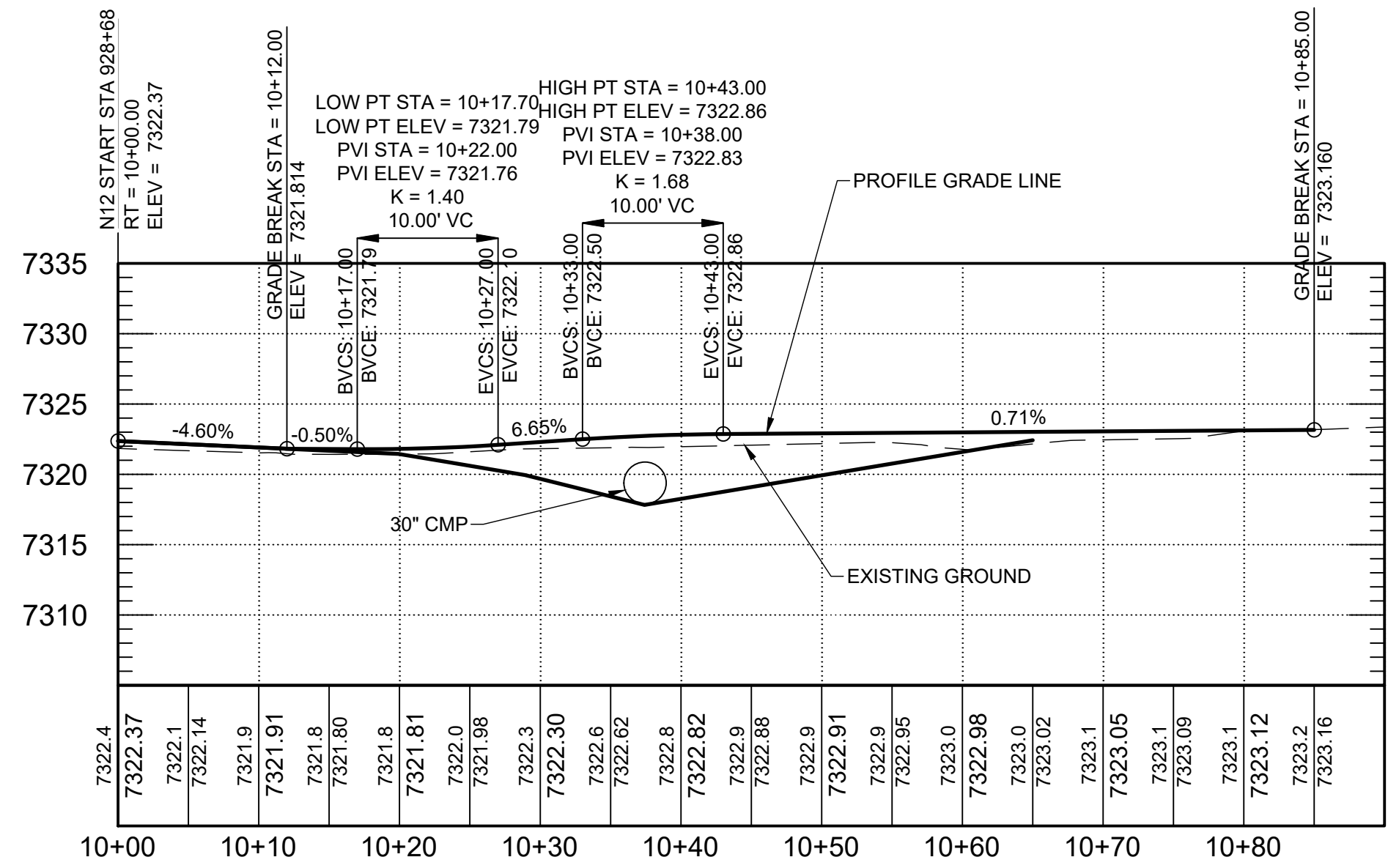
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	69	120



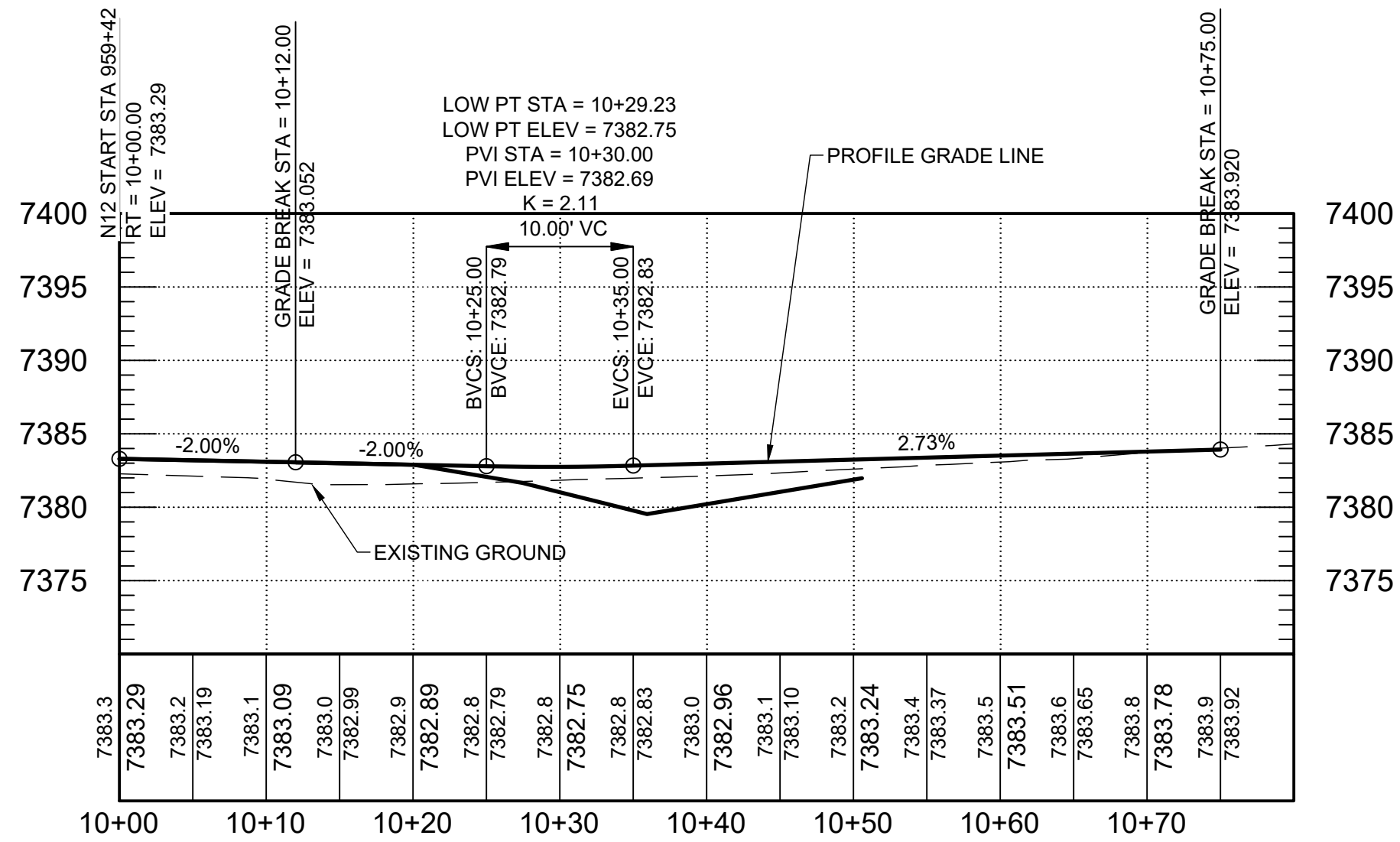
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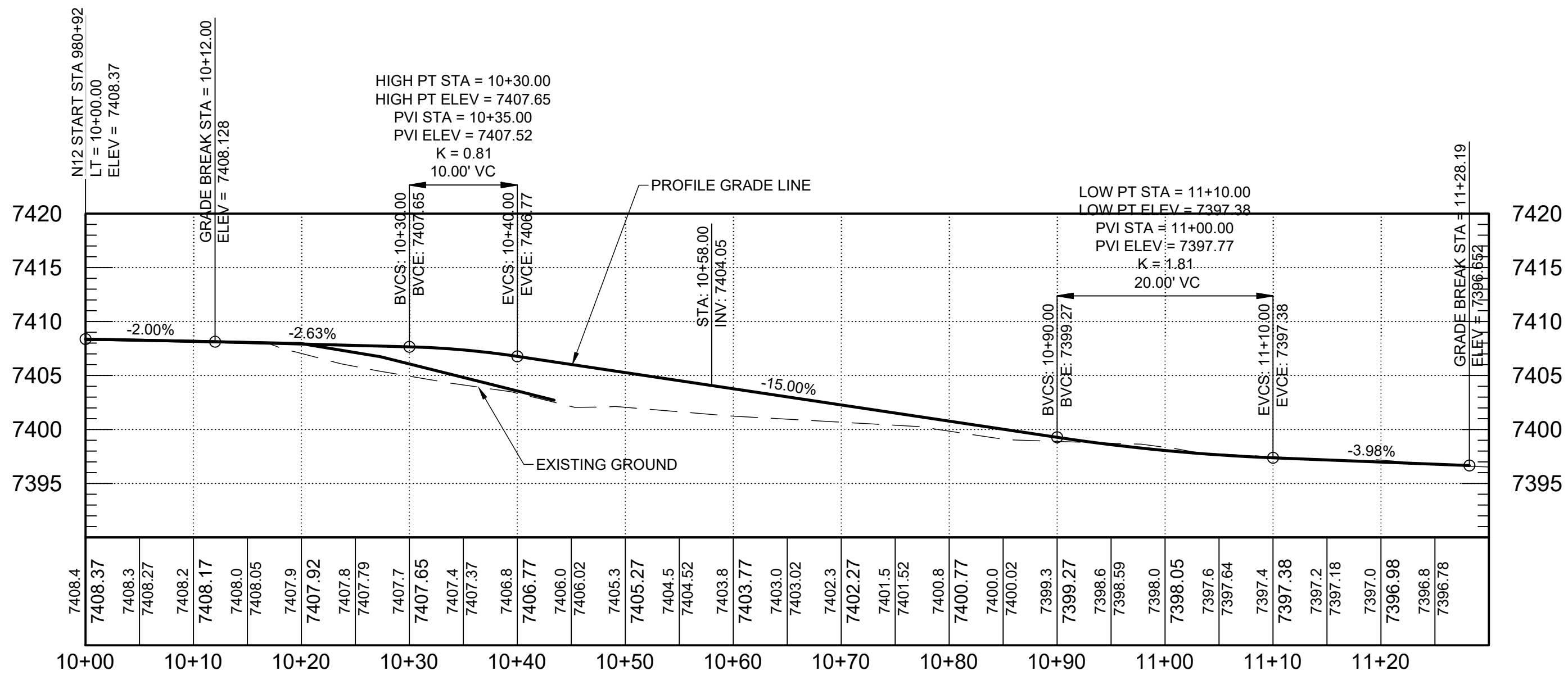
TO-2



TO-3



TO-4



TO-5

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

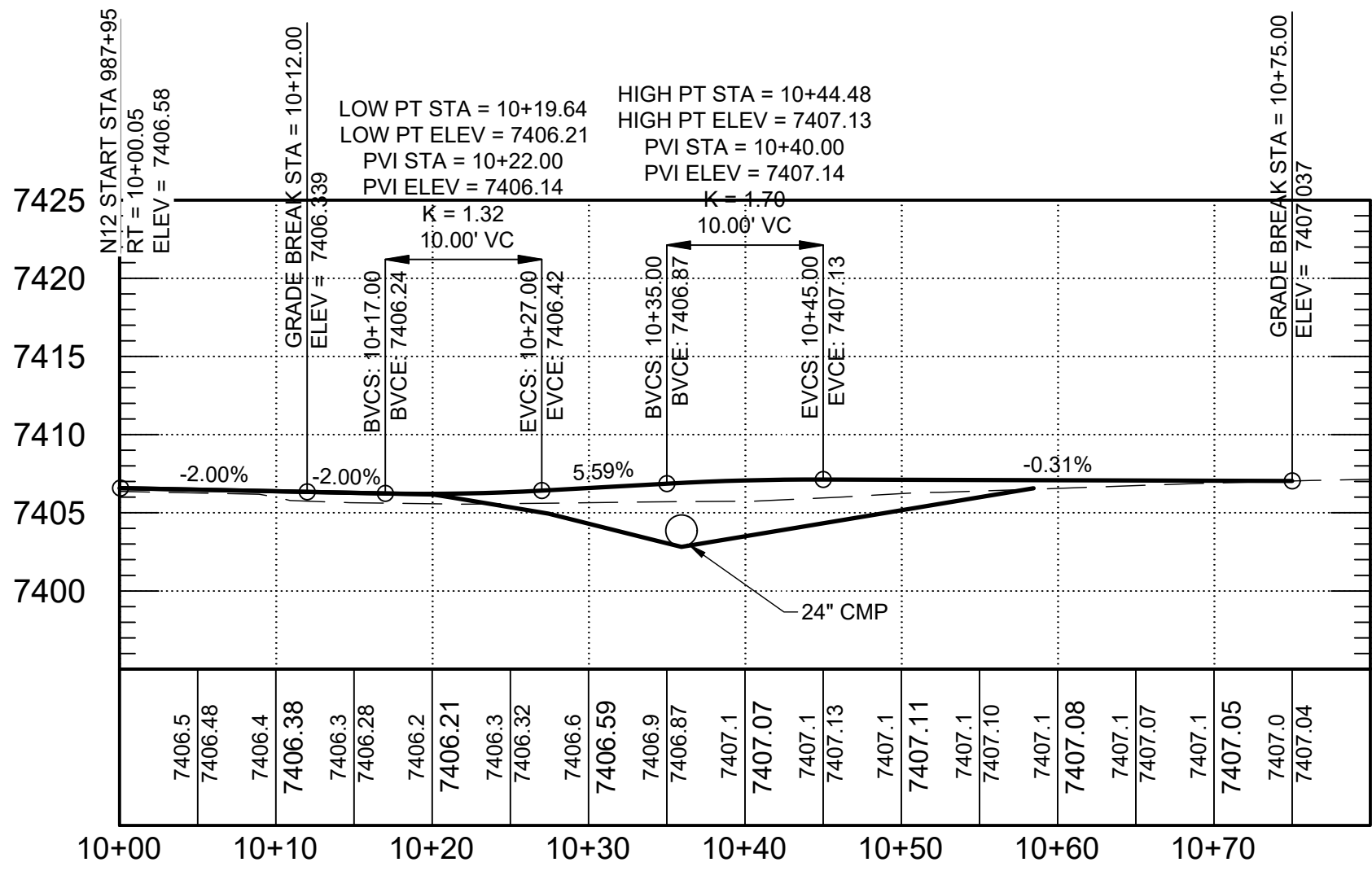
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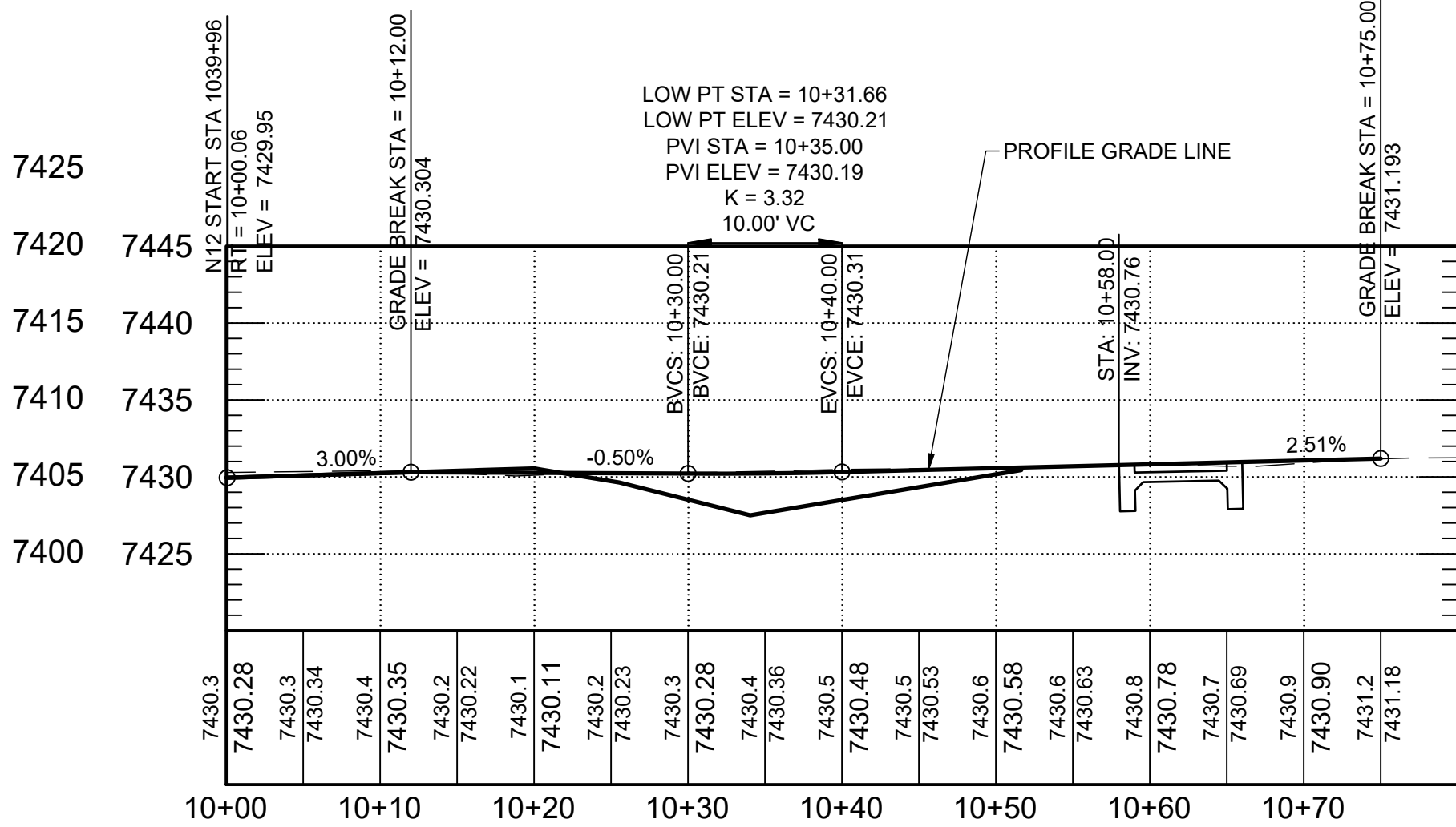
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012		DATE 2025
DRAWN	ERG	PROJECT NO. N12(13-2) 1,2,&4		SHEET NO. 69 OF 120
CHECK	ASF			

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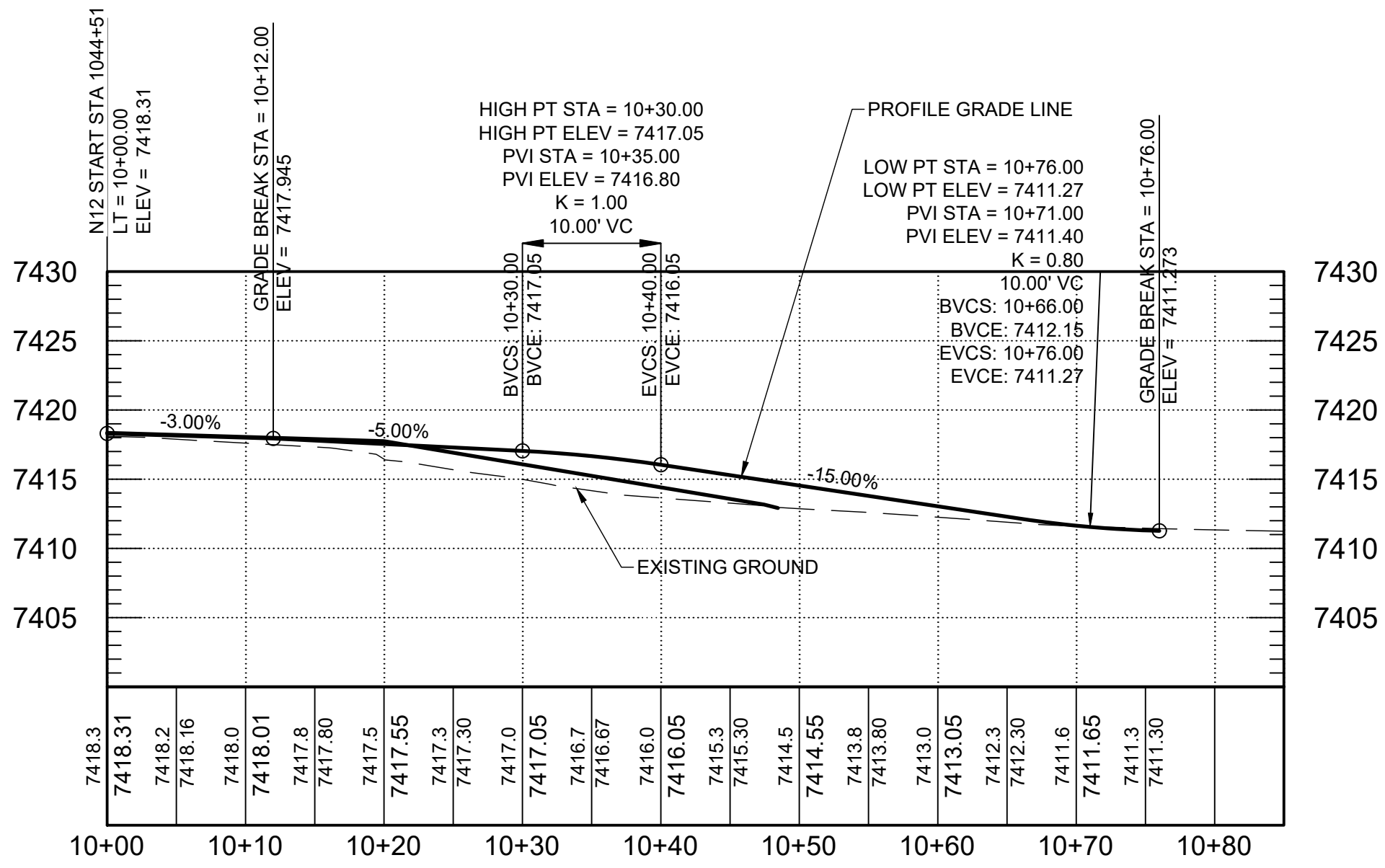
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	70	120



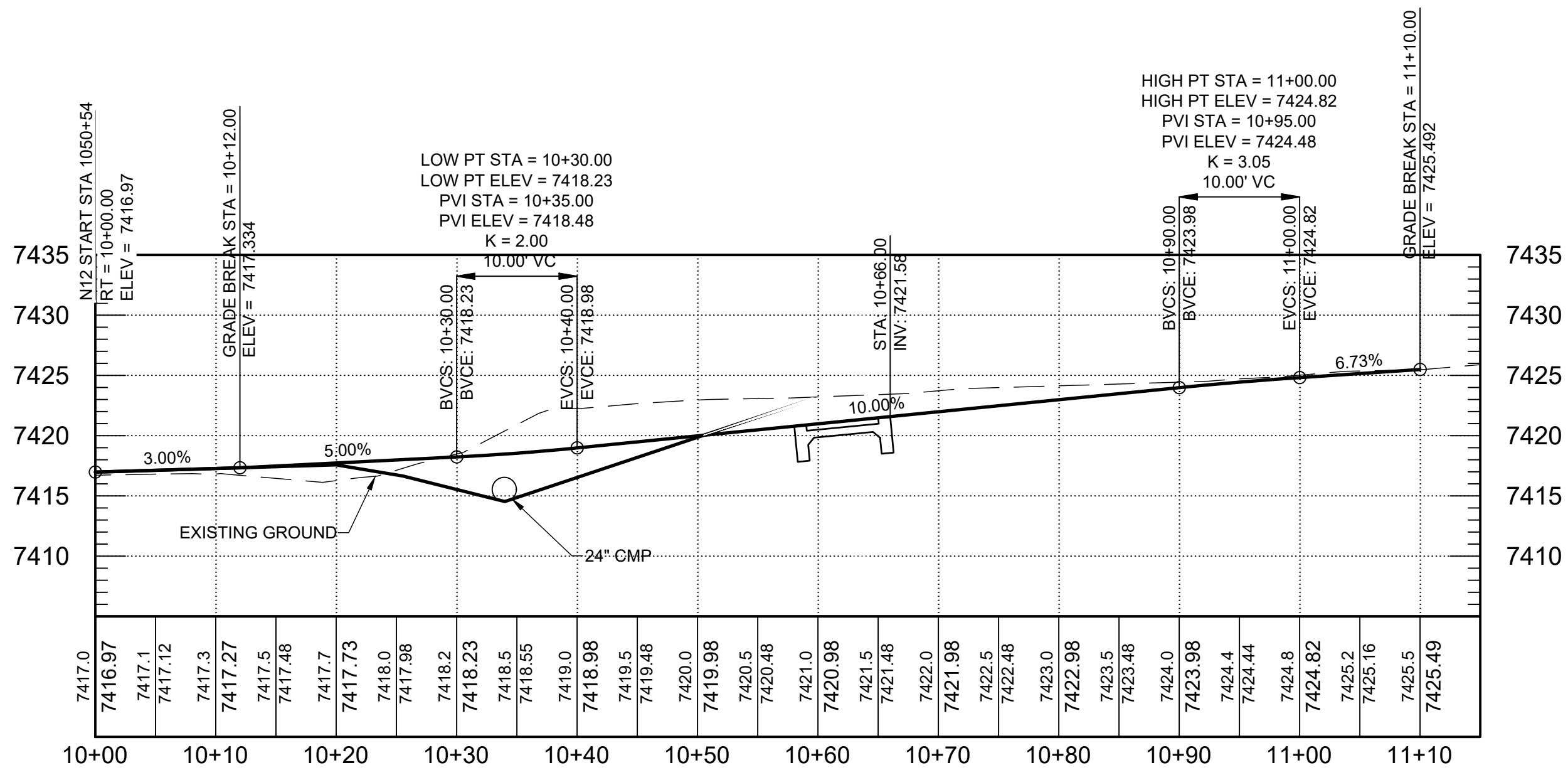
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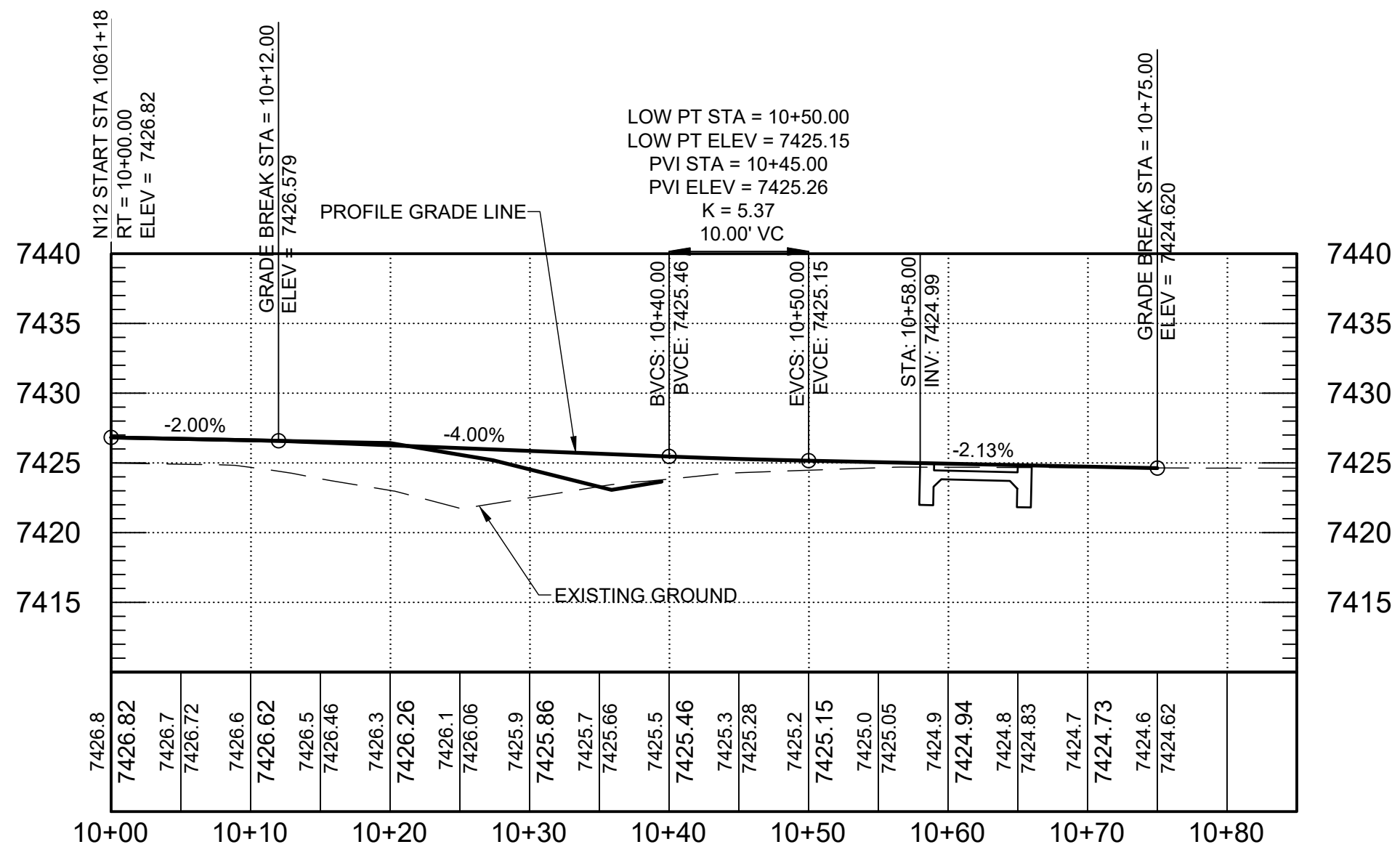
TO-7



TO-8



TO-9



TO-10

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

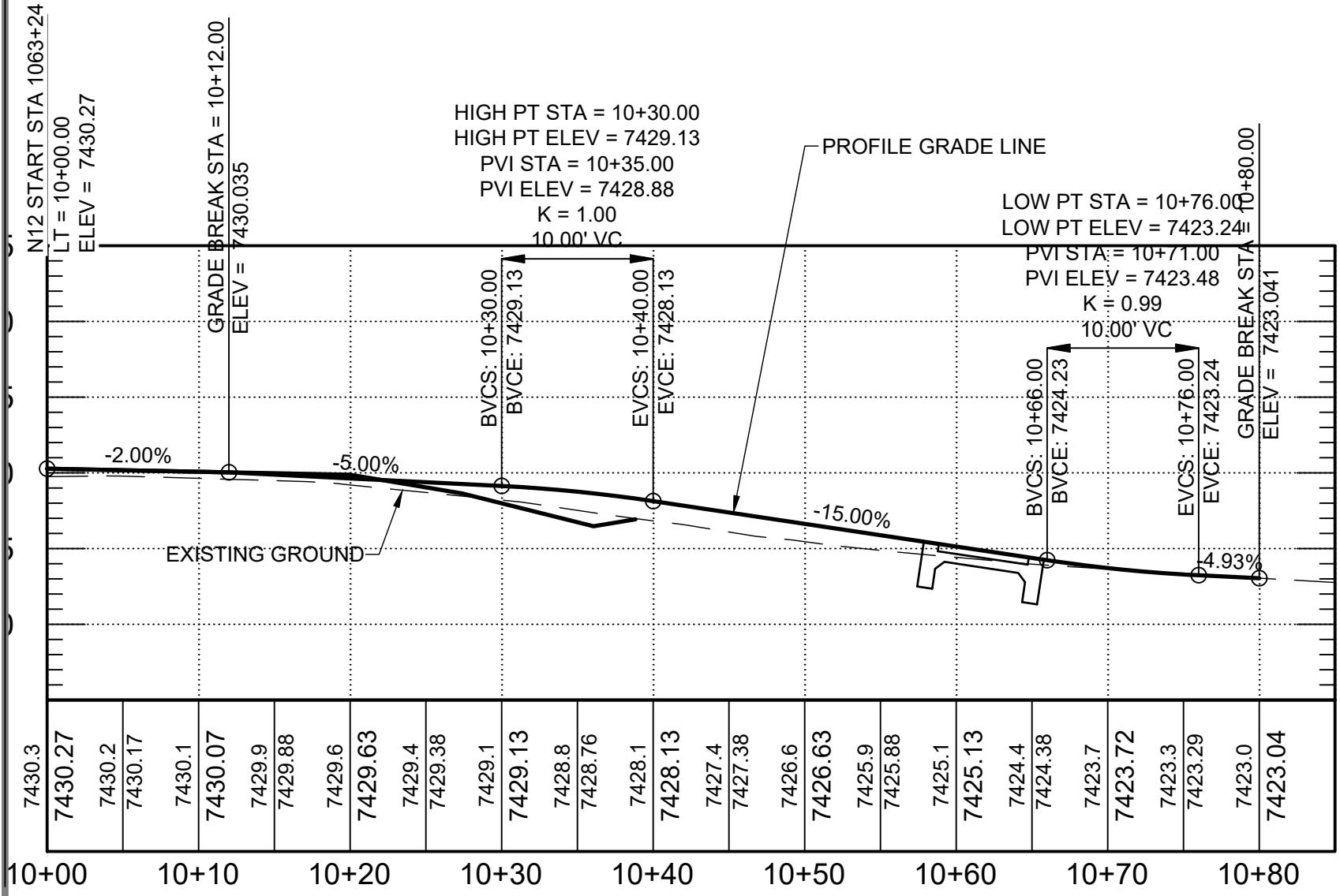
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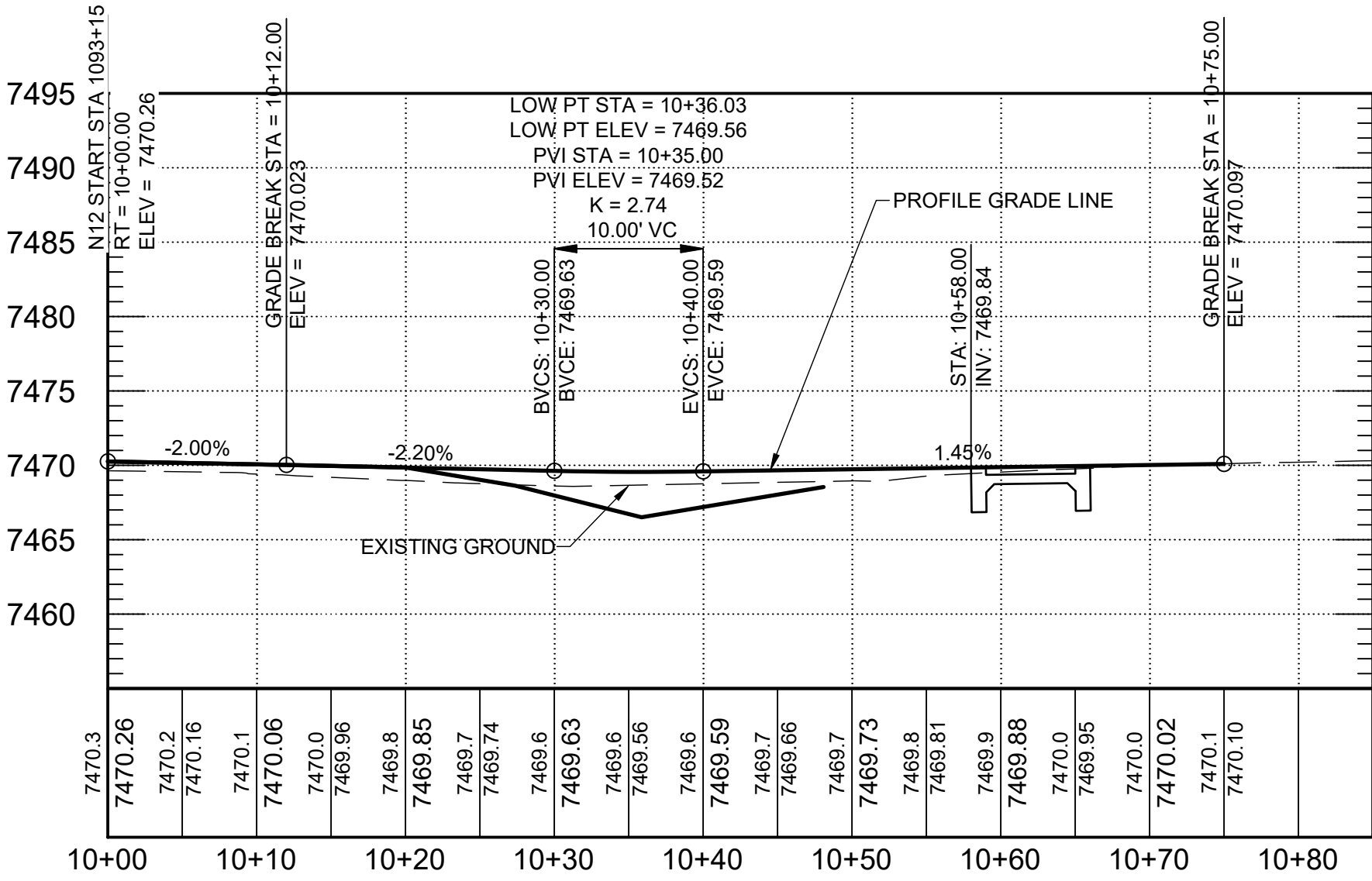
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	70 OF 120	

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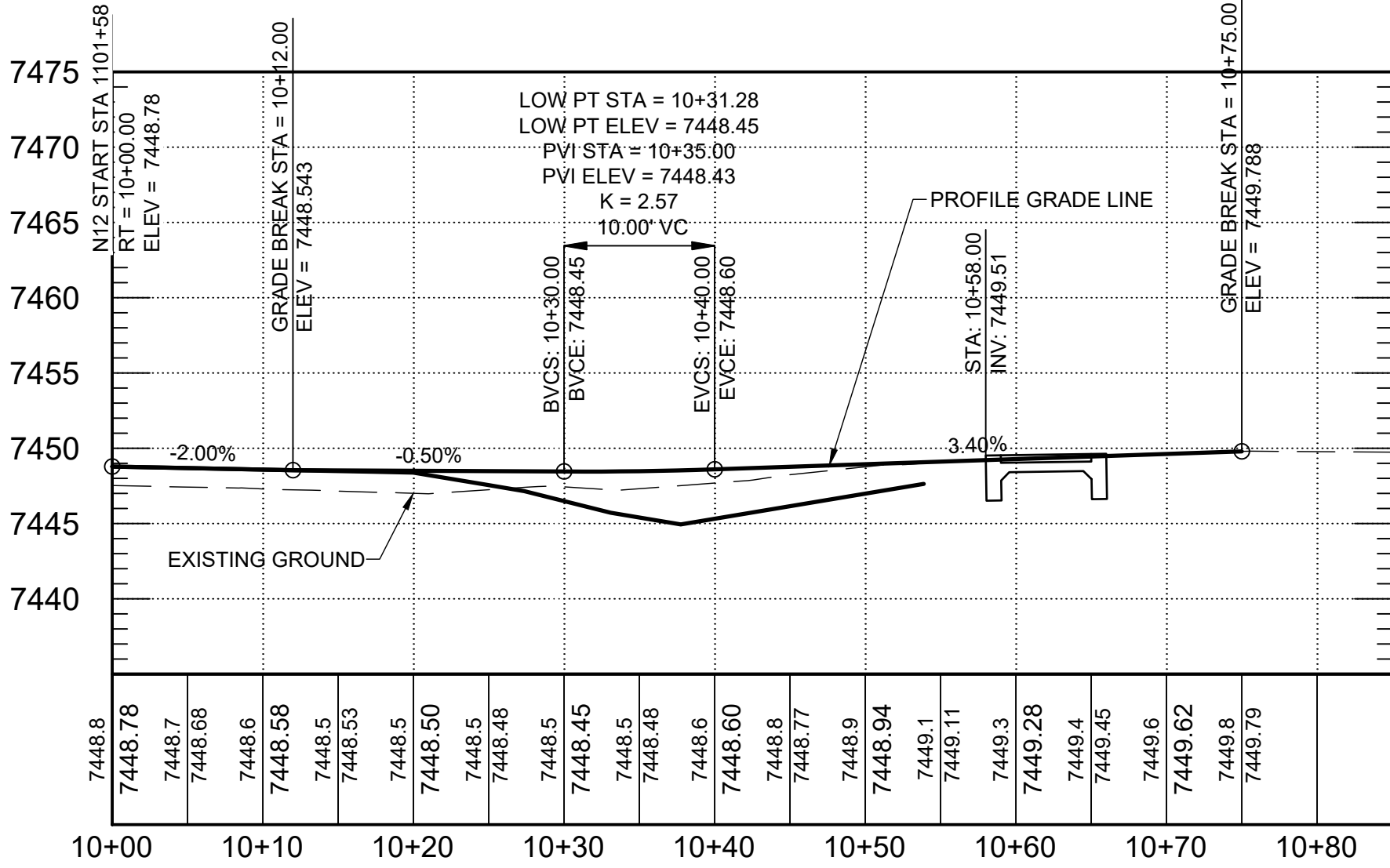
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	71	120



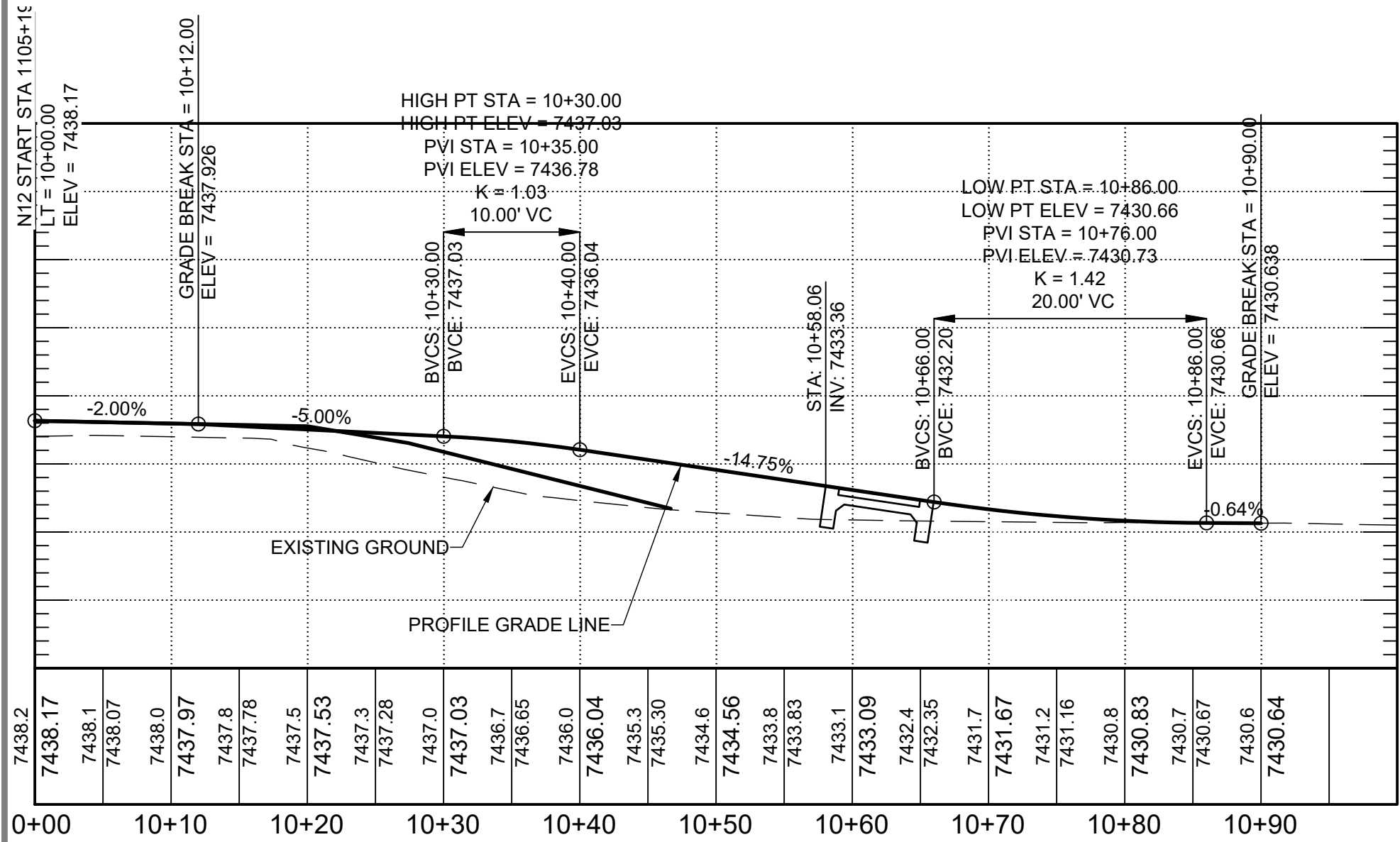
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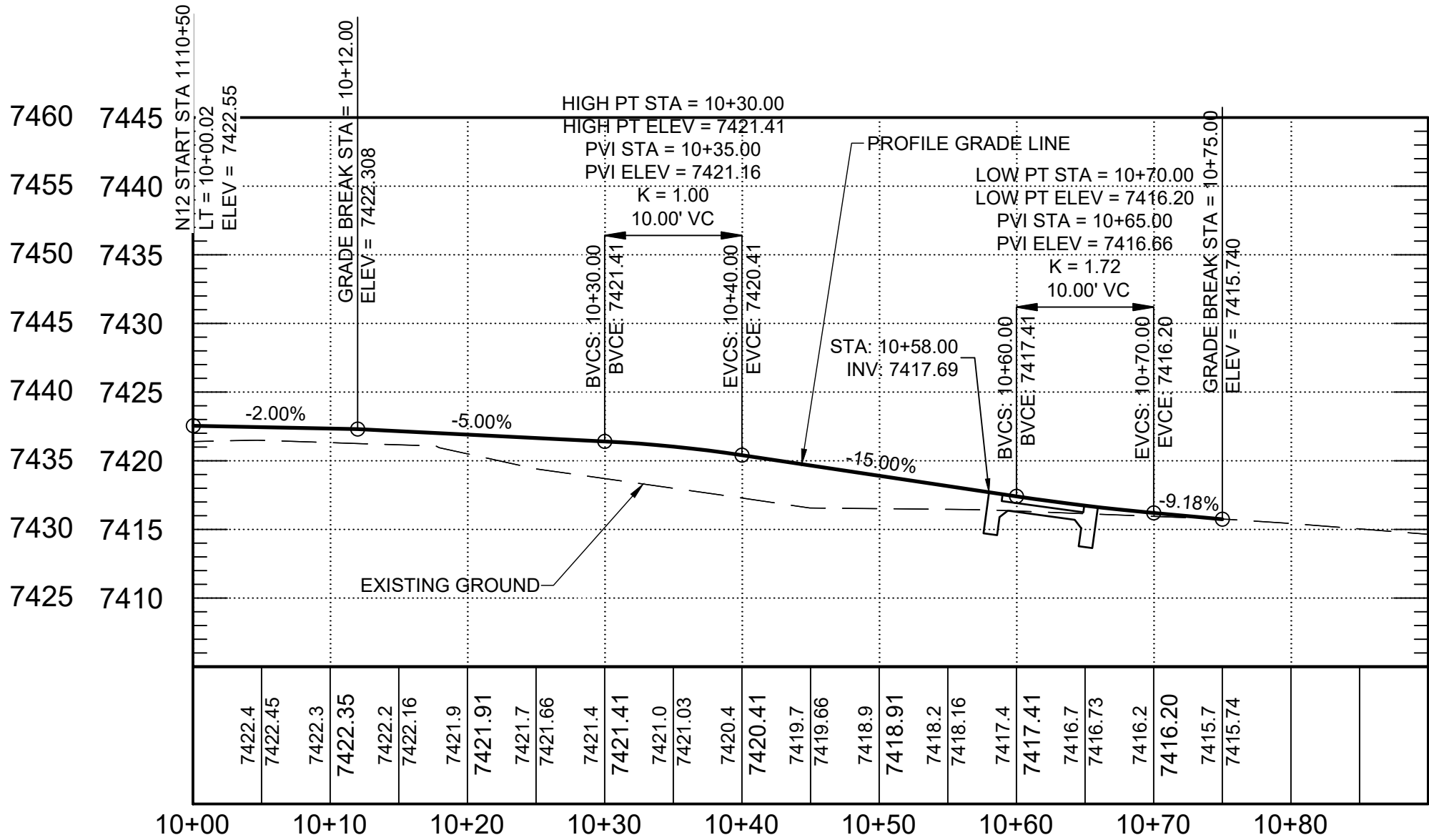
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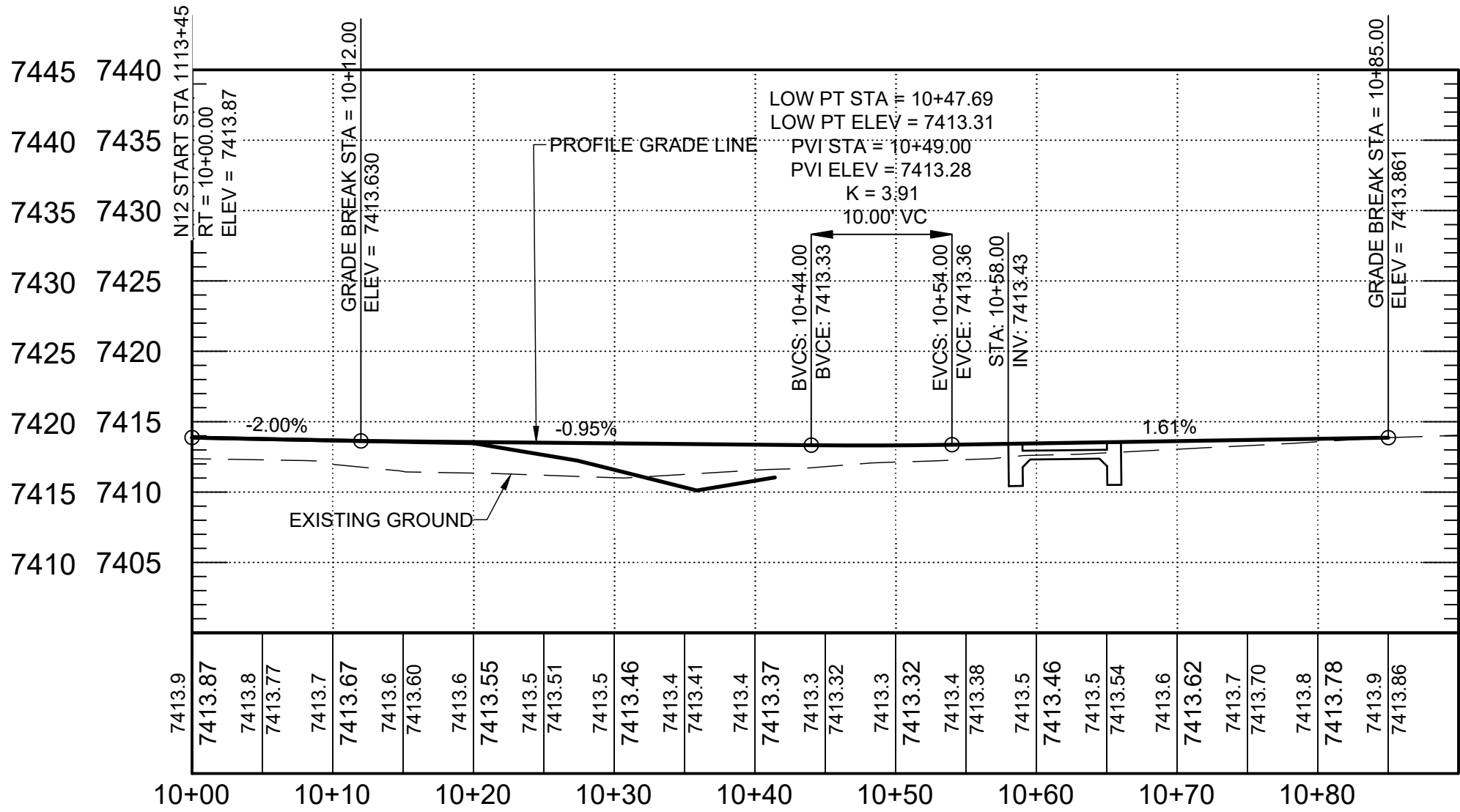
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TO-14



TO-15

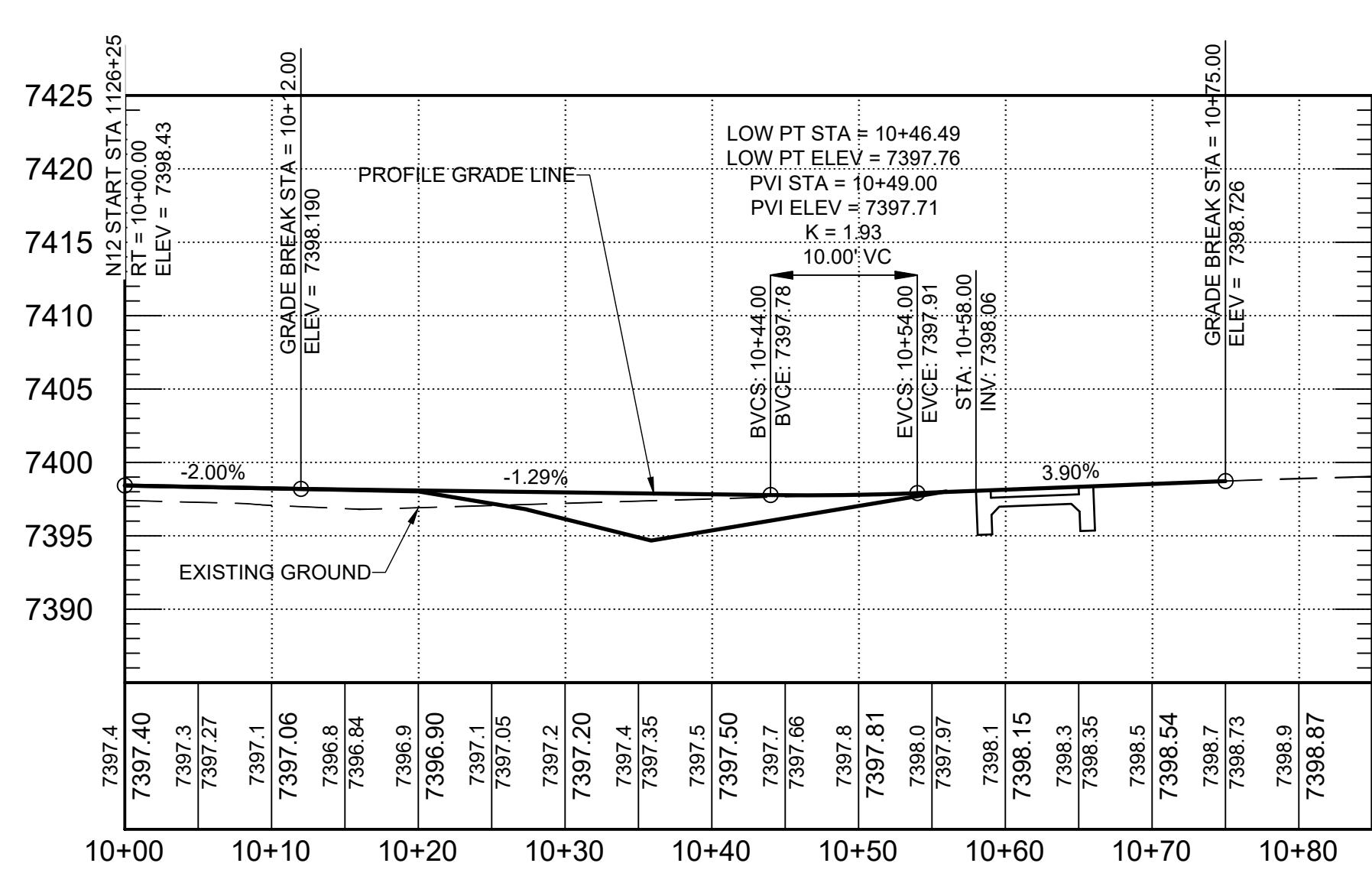


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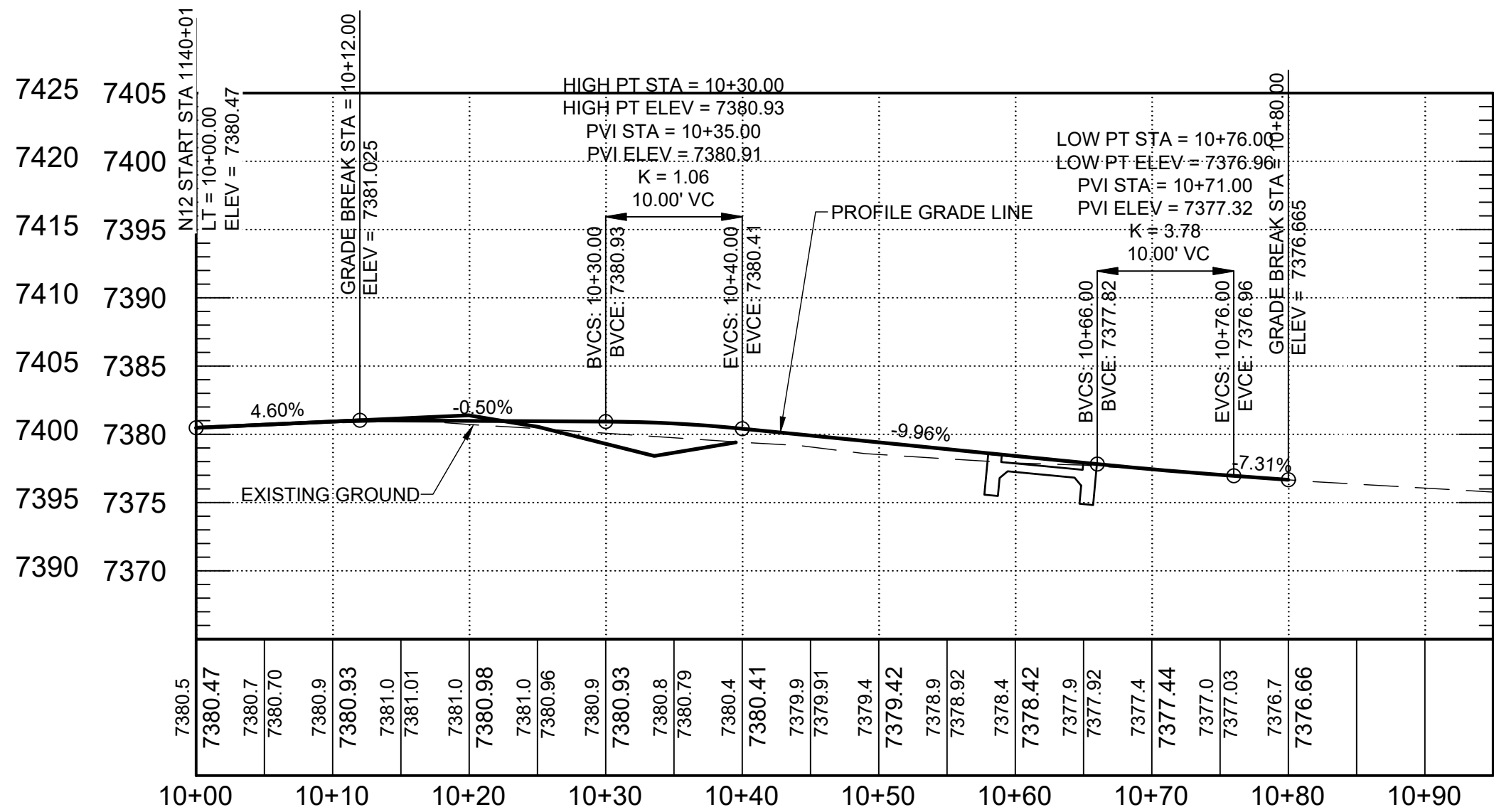
AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701 Registered Professional Engineer (Civil) CERTIFICATE NO. 76131 JOSHUA BROWN Date Signed: 12/16/2025 ARIZONA, U.S.A.		ROUTE N12		
		TURNOUT PROFILE		
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO.1710009012		DATE 2025
DRAWN	ERG	PROJECT NO.		SHEET NO.
CHECK	ASF	N12(13-2) 1,2,&4		71 OF 120

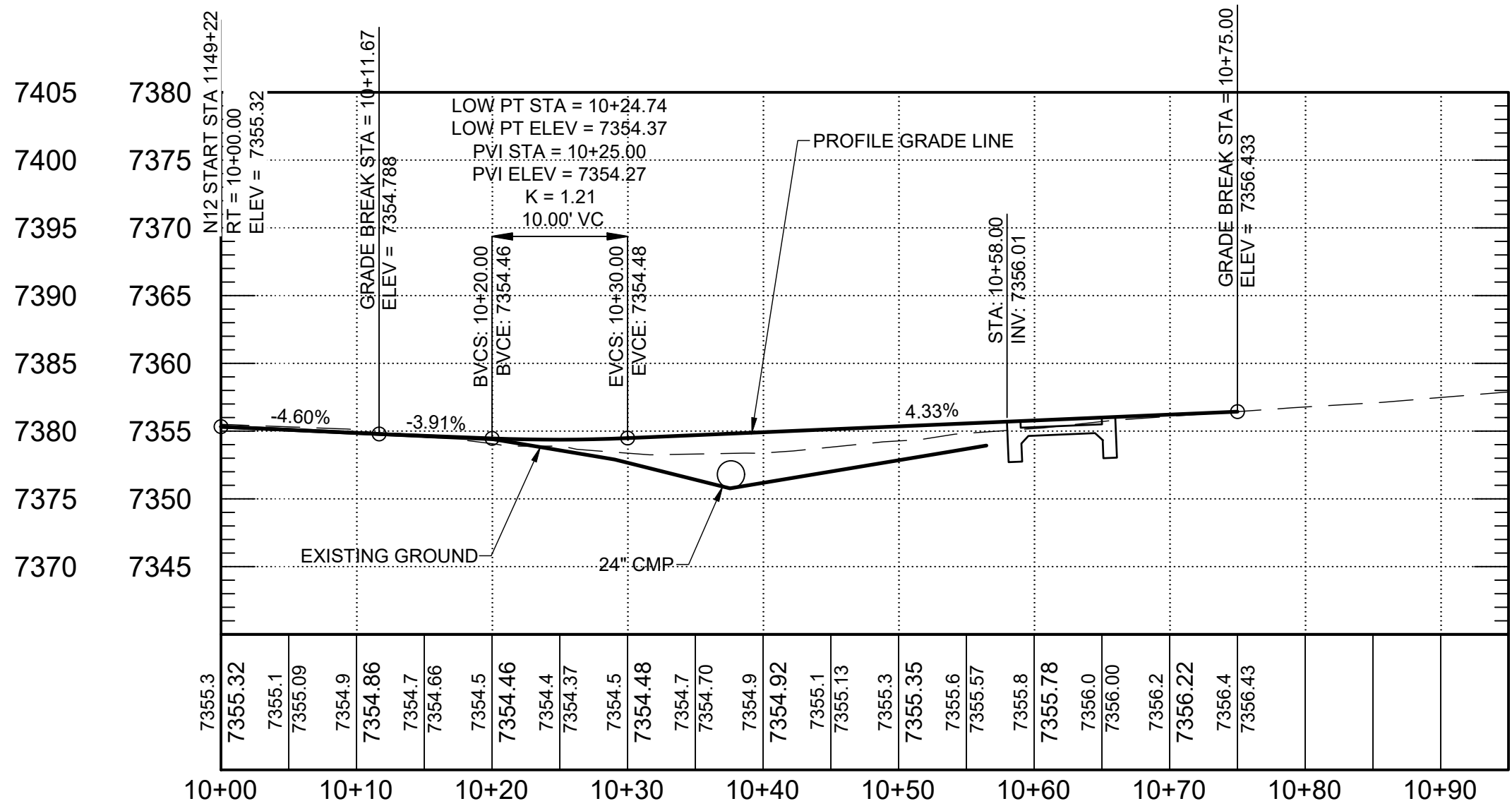
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	72	120



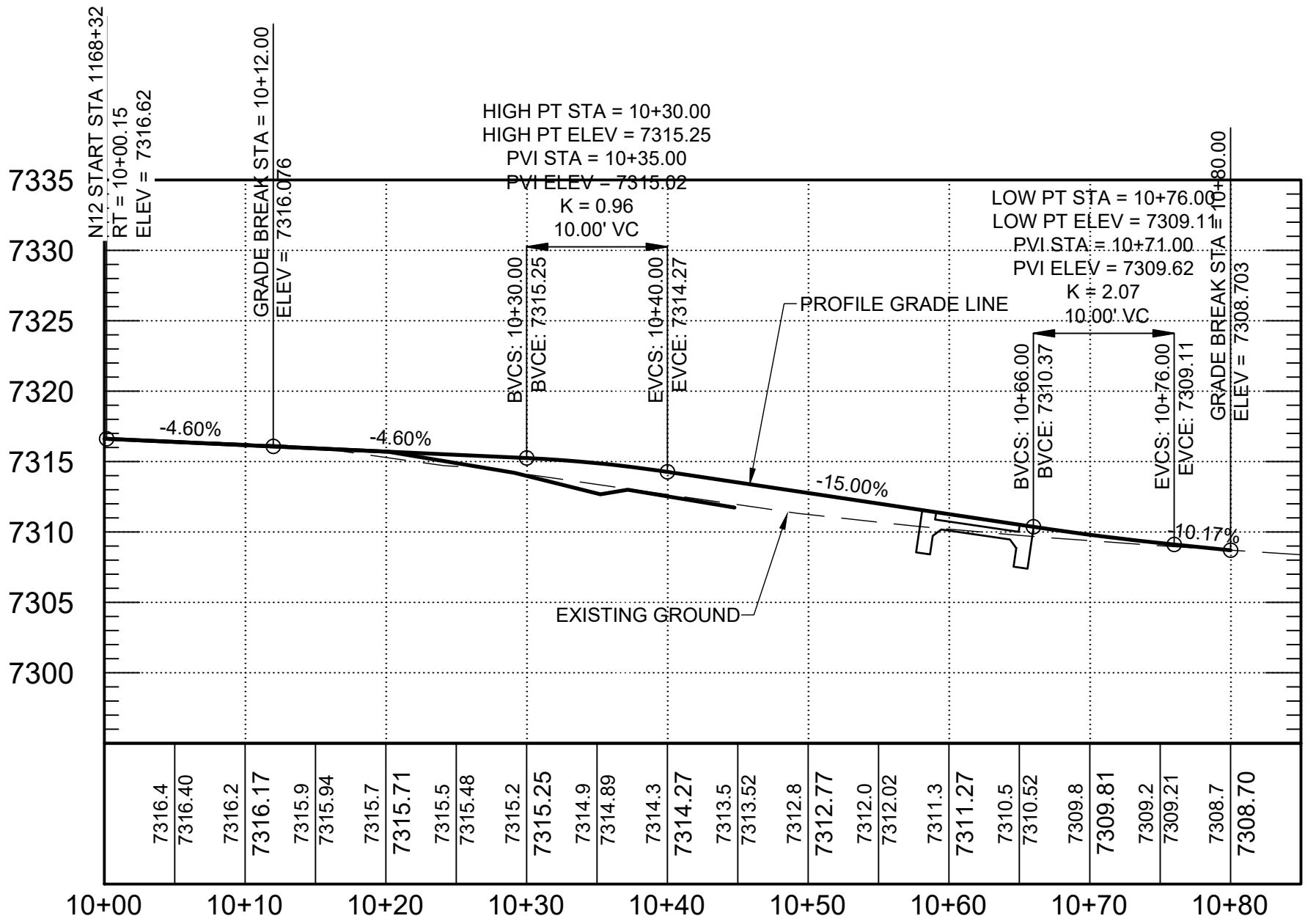
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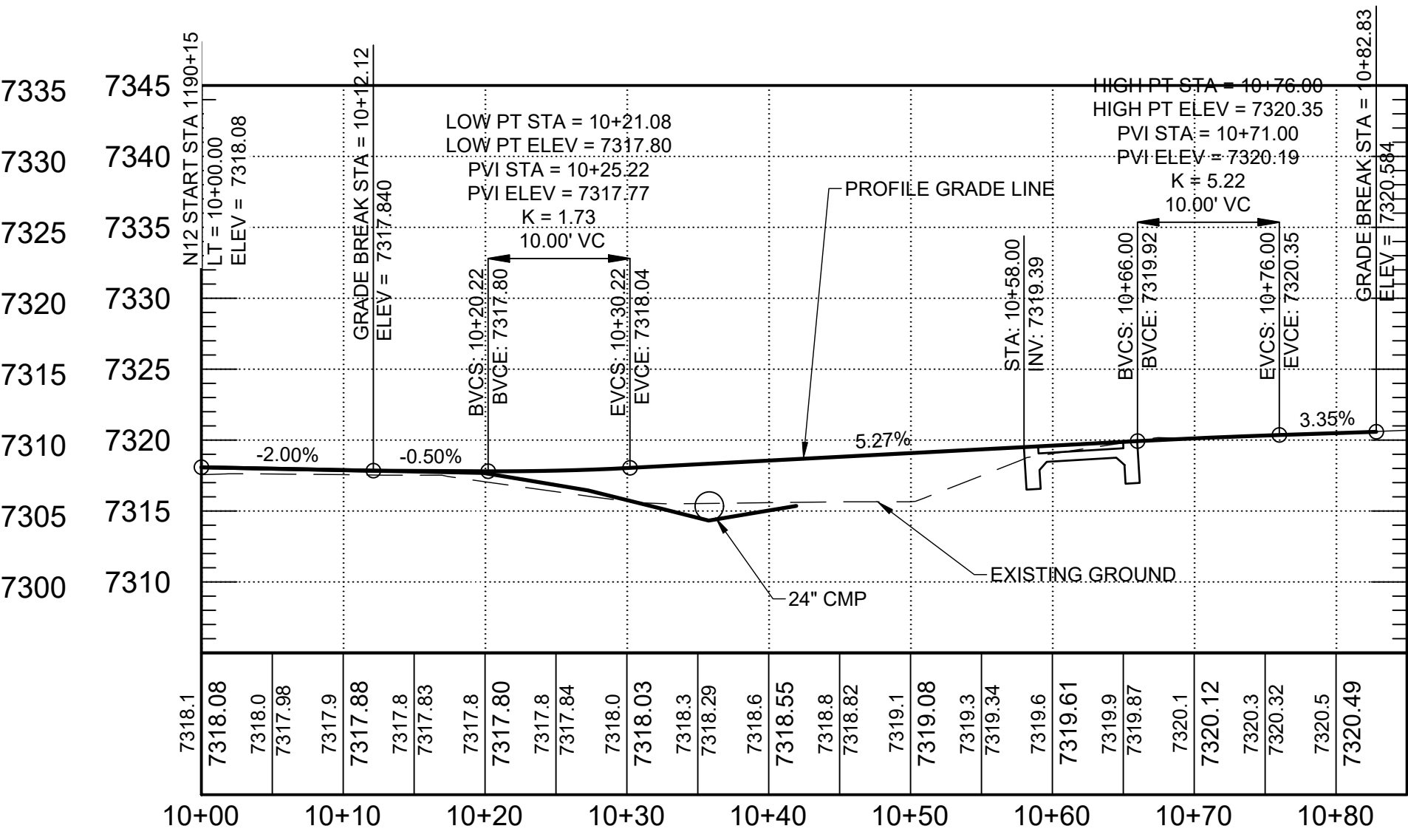
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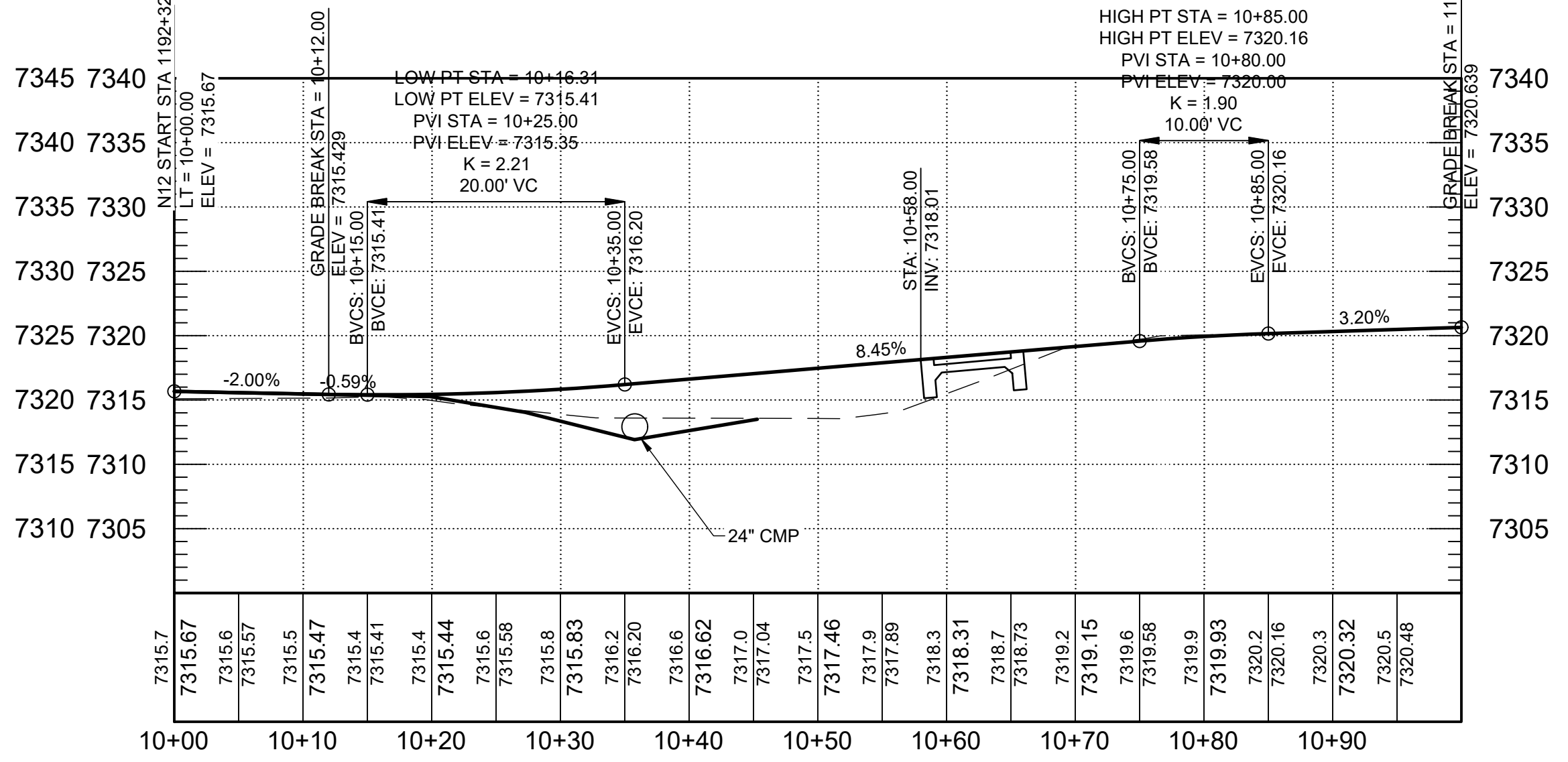
TO-19



TO-20



TO-21



TO-22

AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

TURNOUT PROFILE

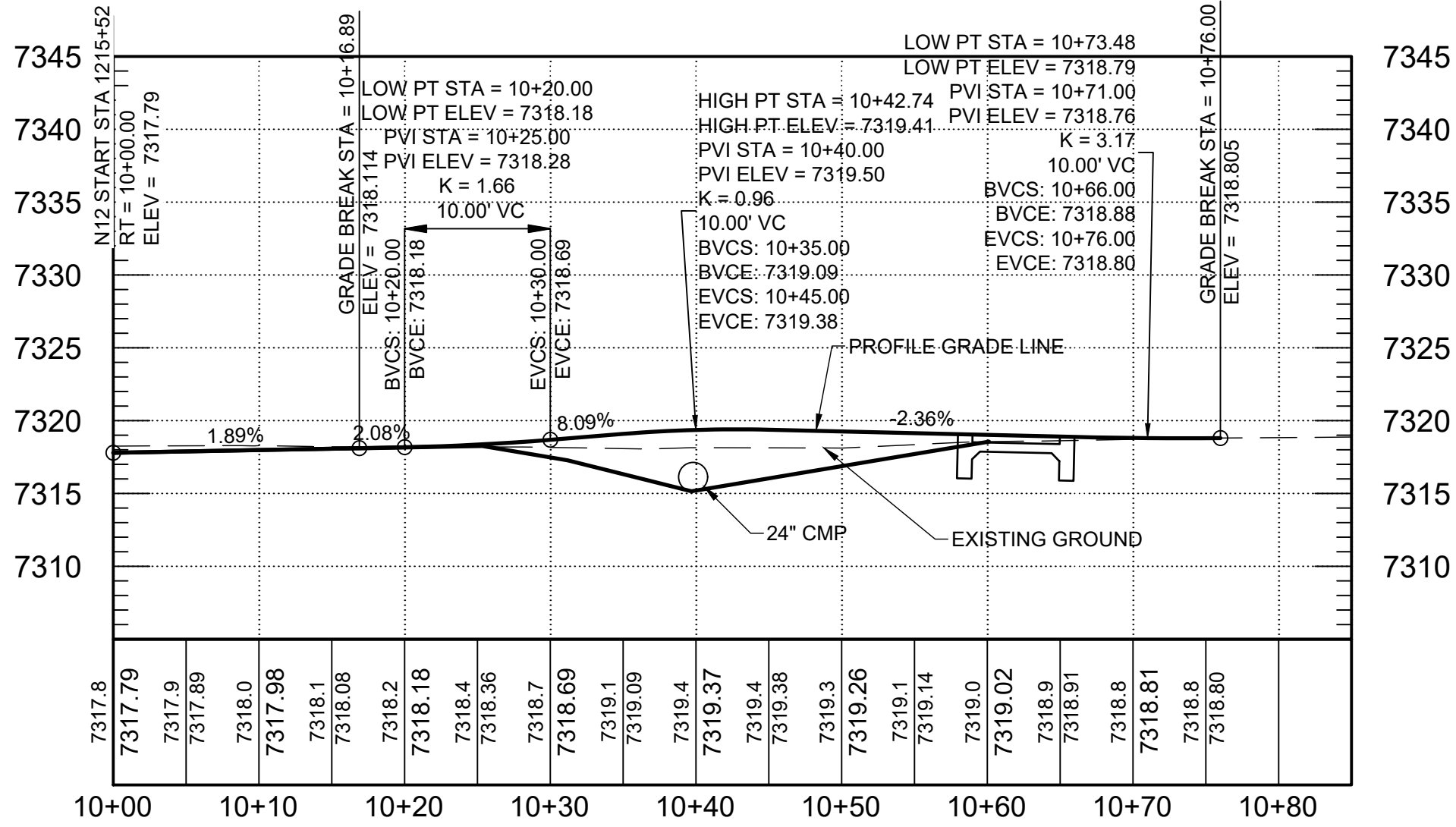
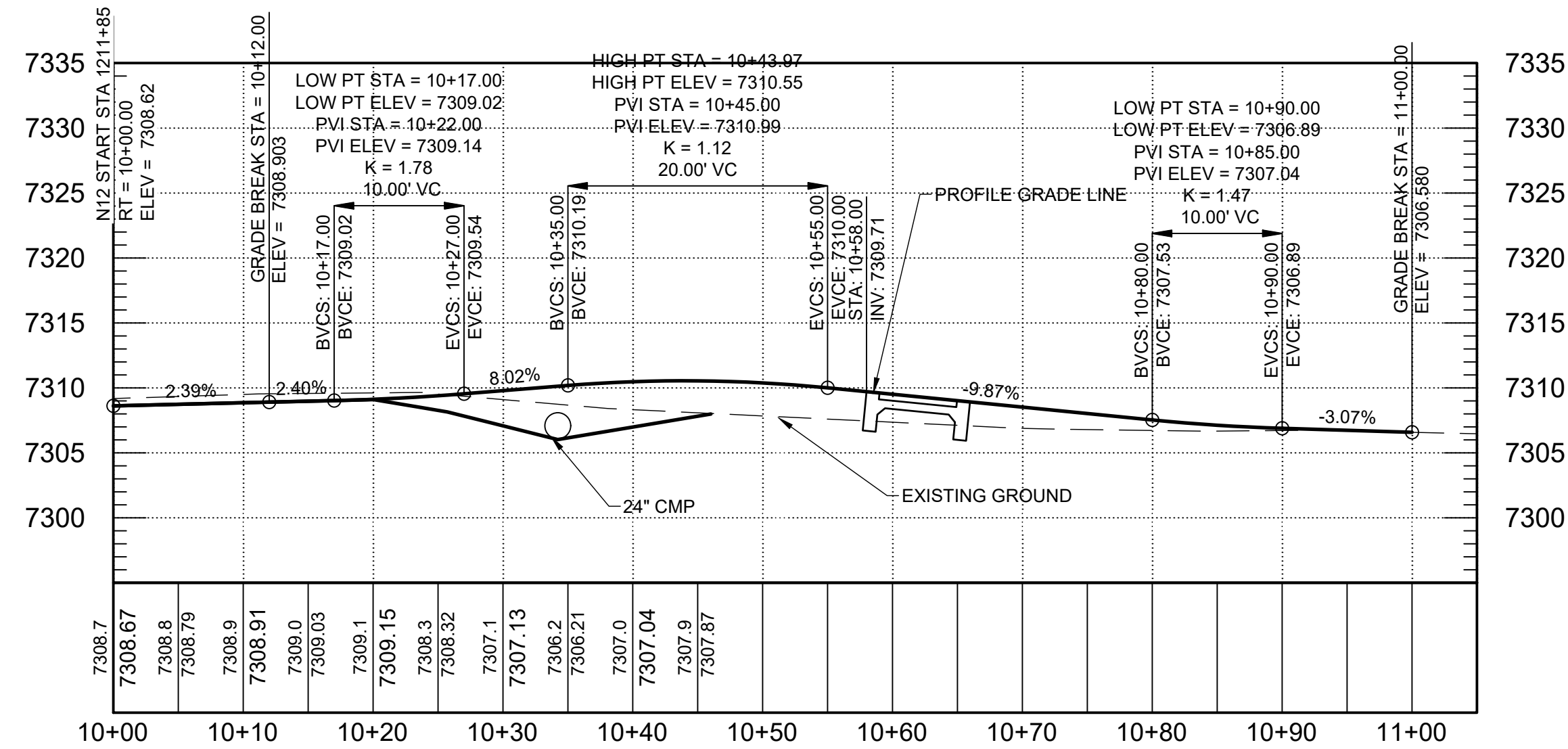
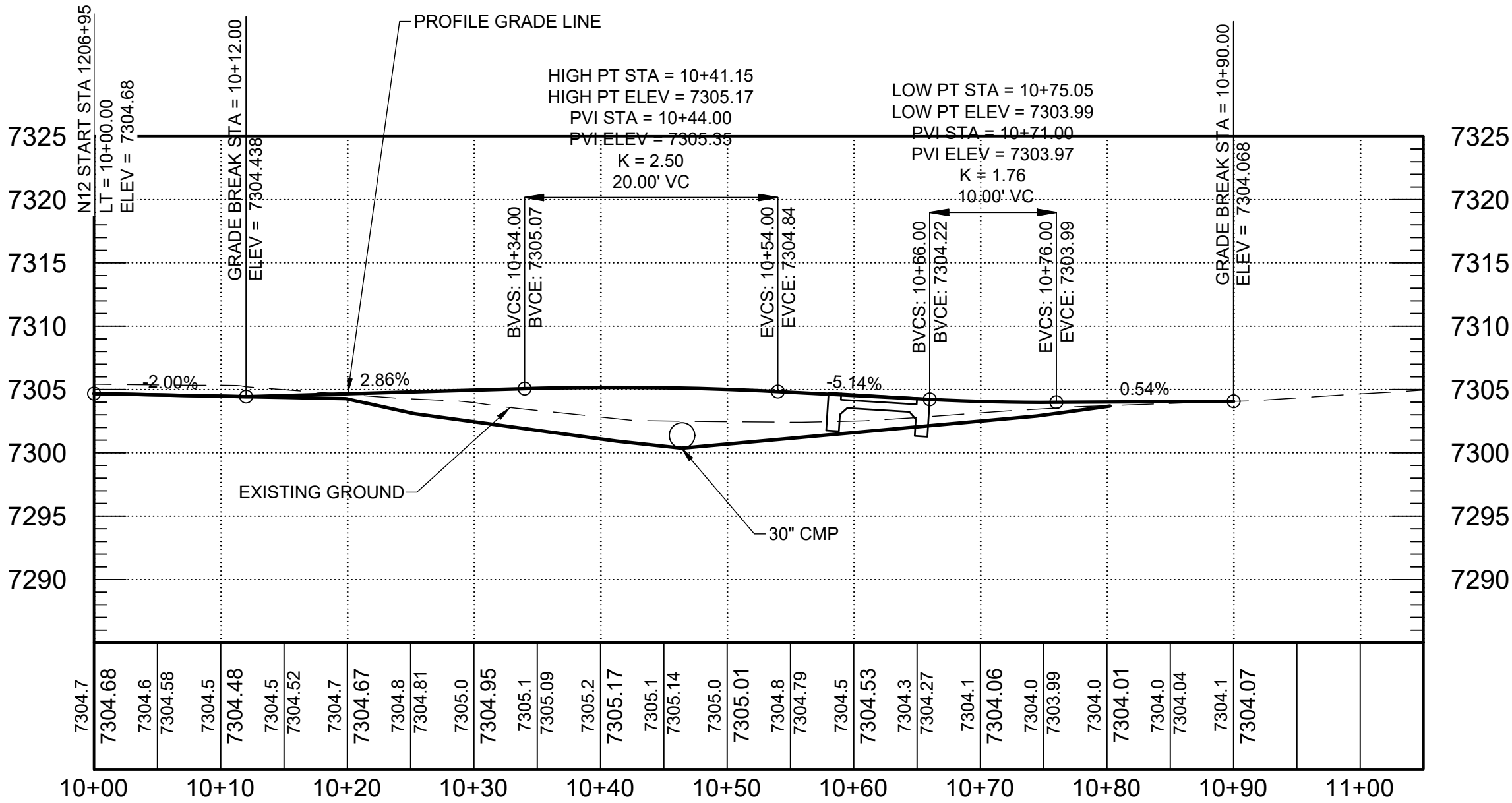
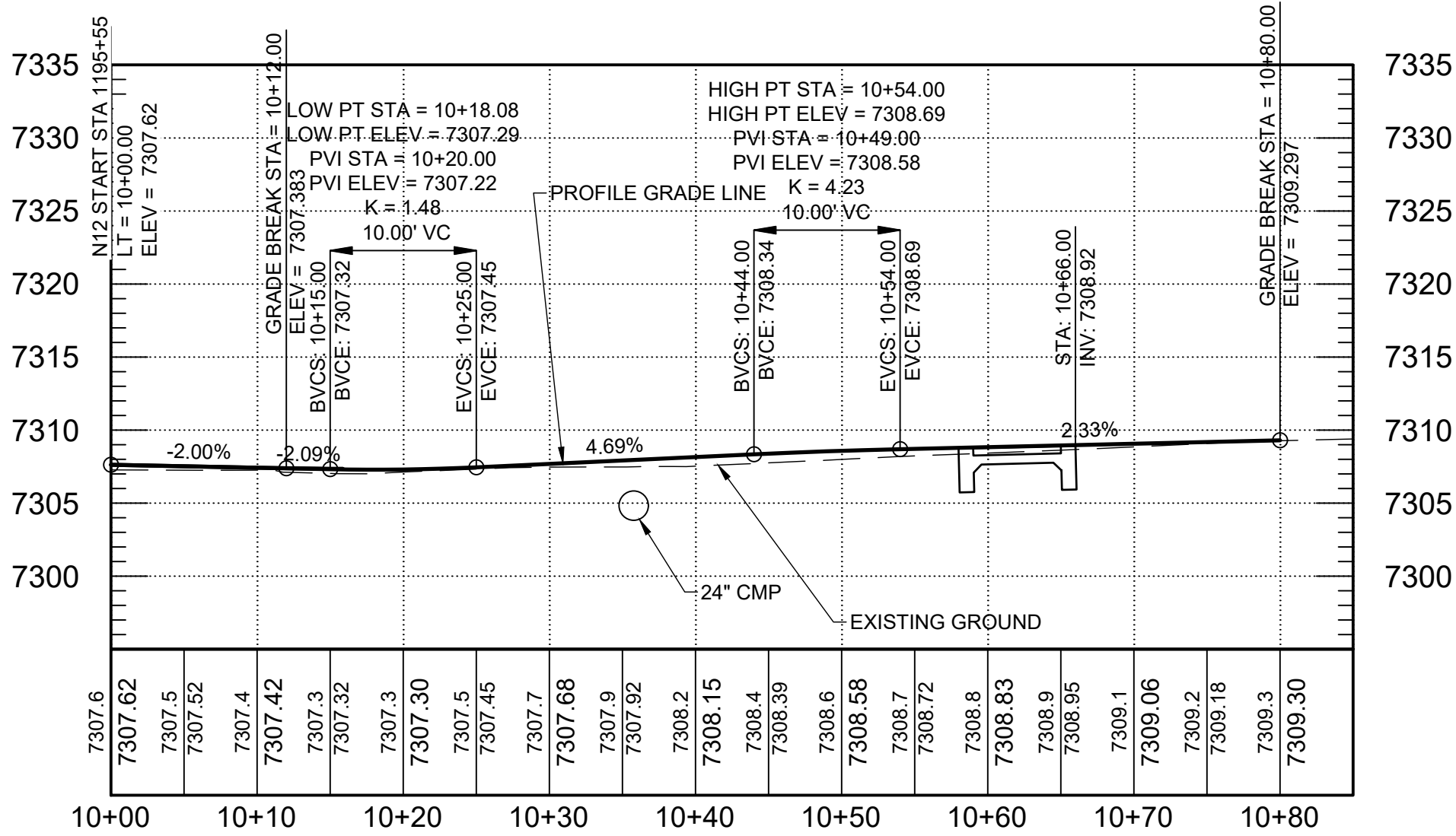
REVISIONS	NO.	DATE	REMARKS	BY

DESIGN	JEB	WCEA NO. 1710009012	DATE 2025
DRAWN	ERG	PROJECT NO.	SHEET NO.
CHECK	ASF	N12(13-2) 1,2,&4	72 OF 120



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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	73	120

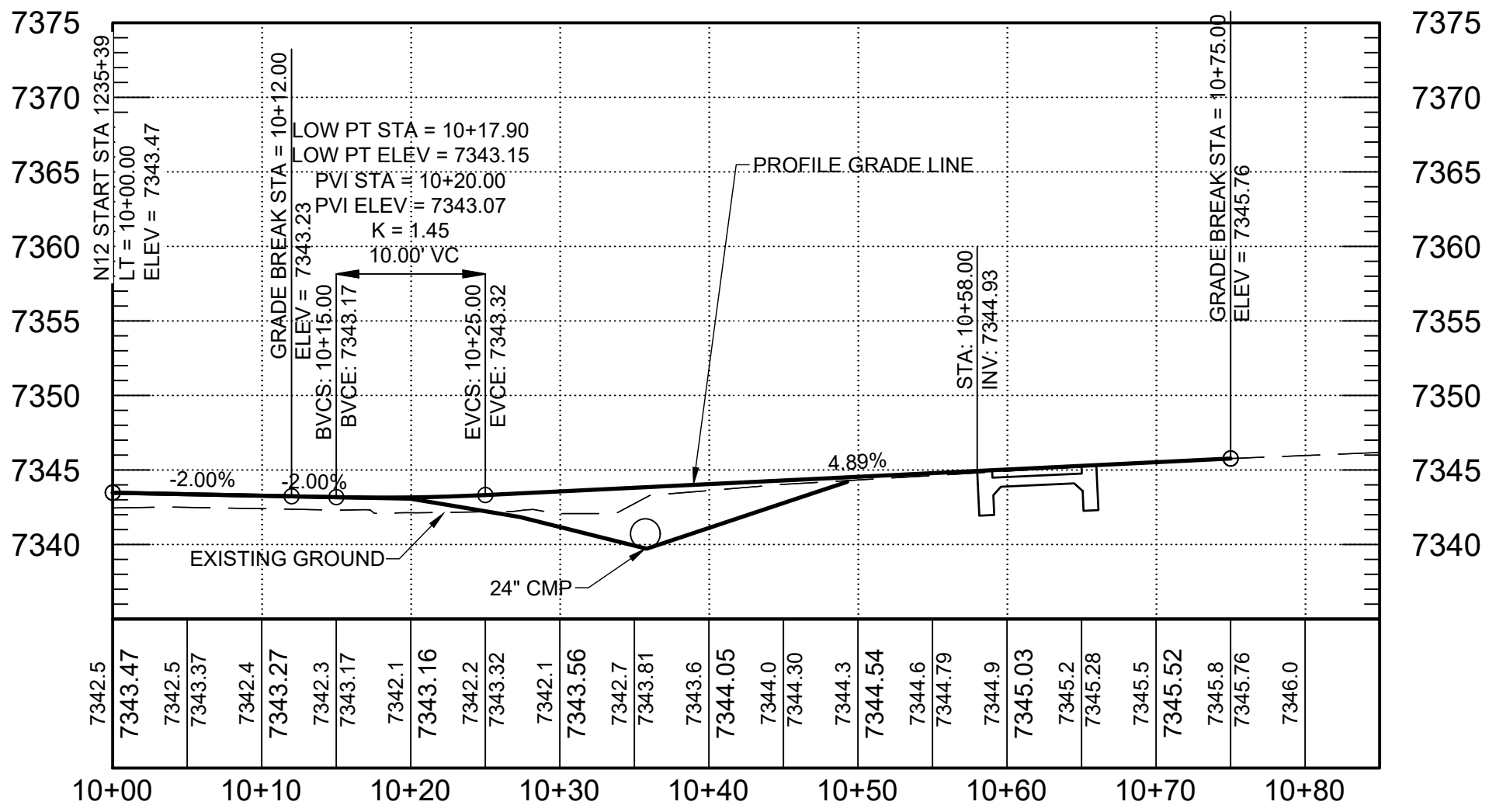
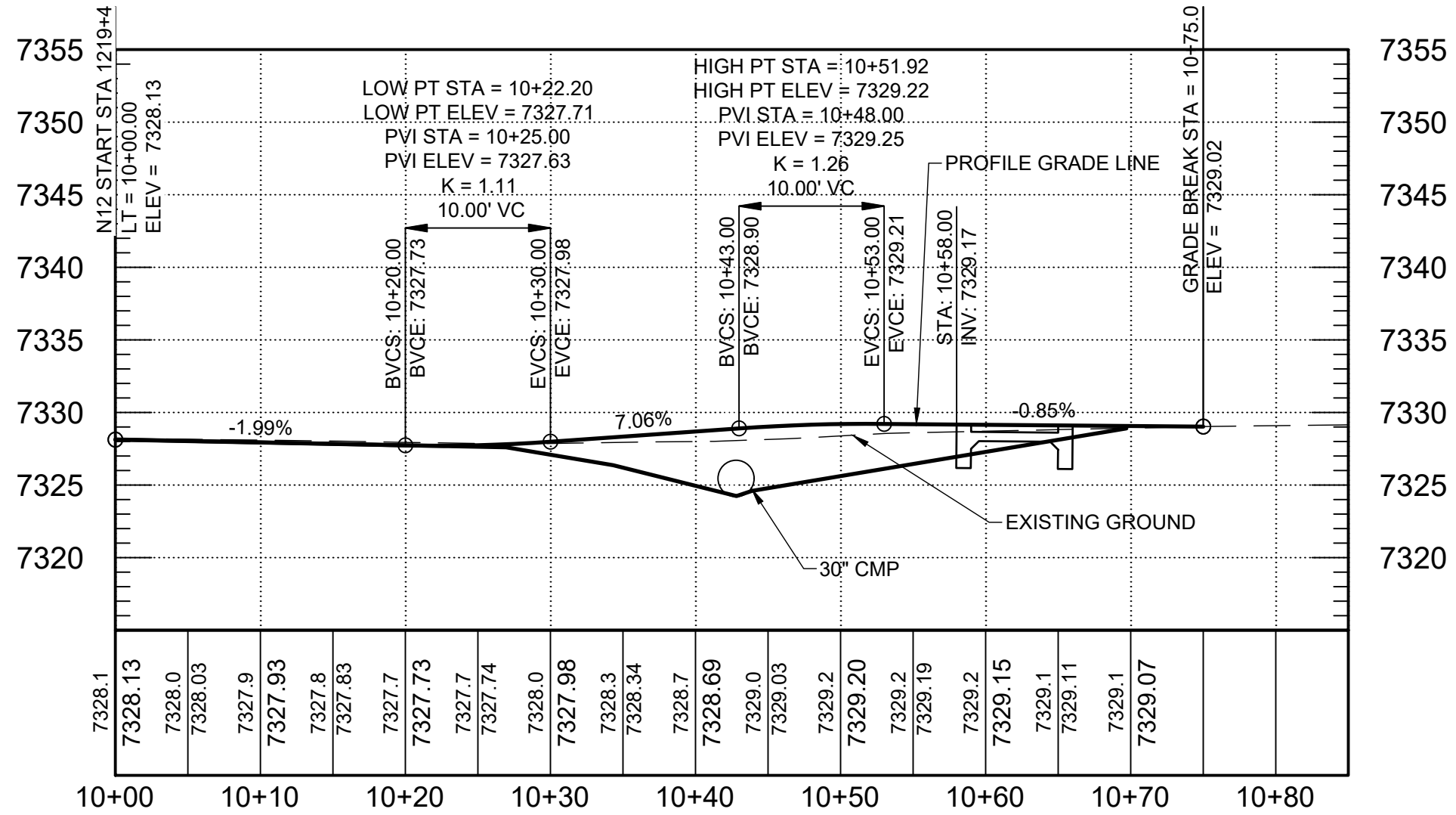
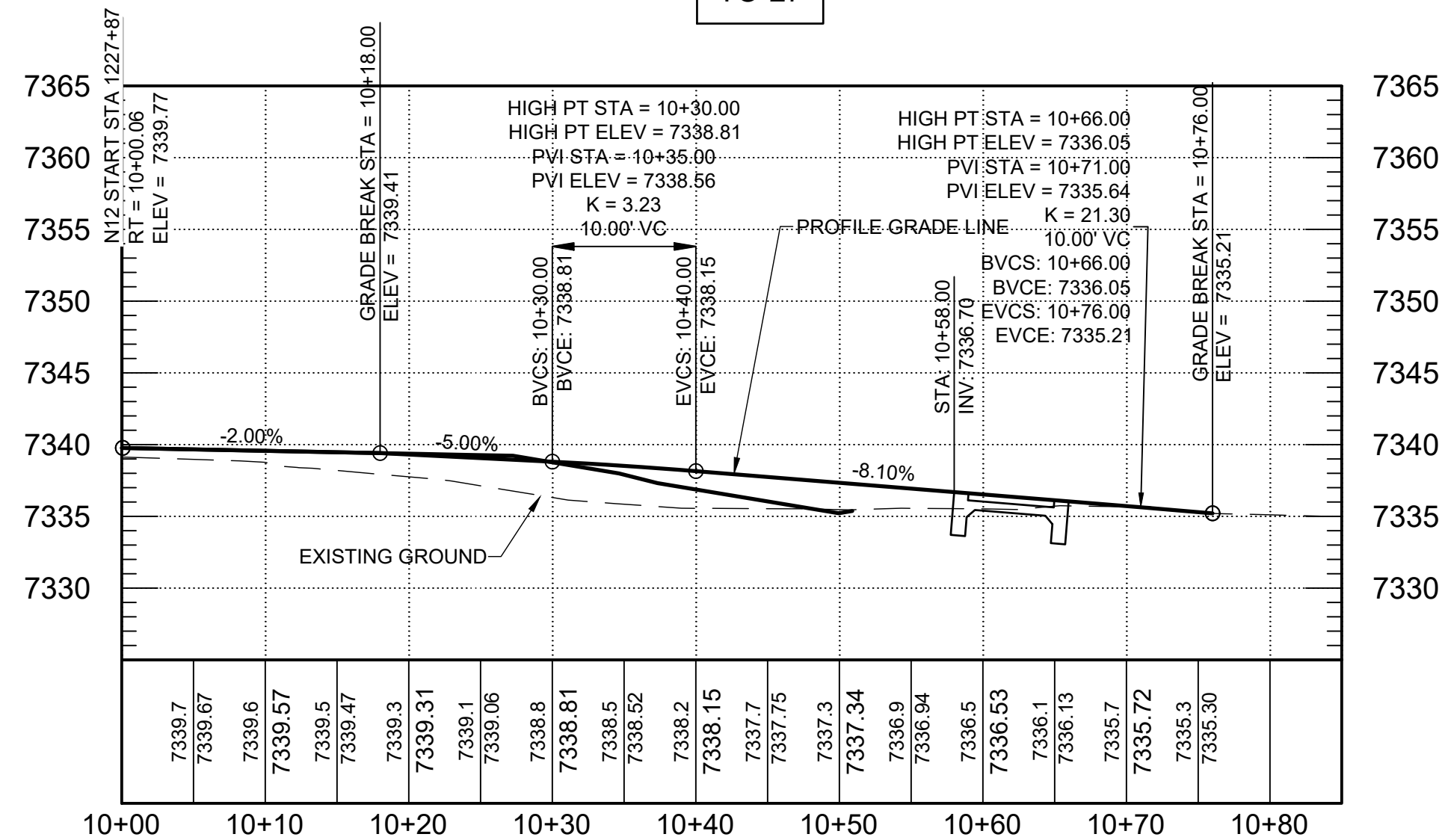
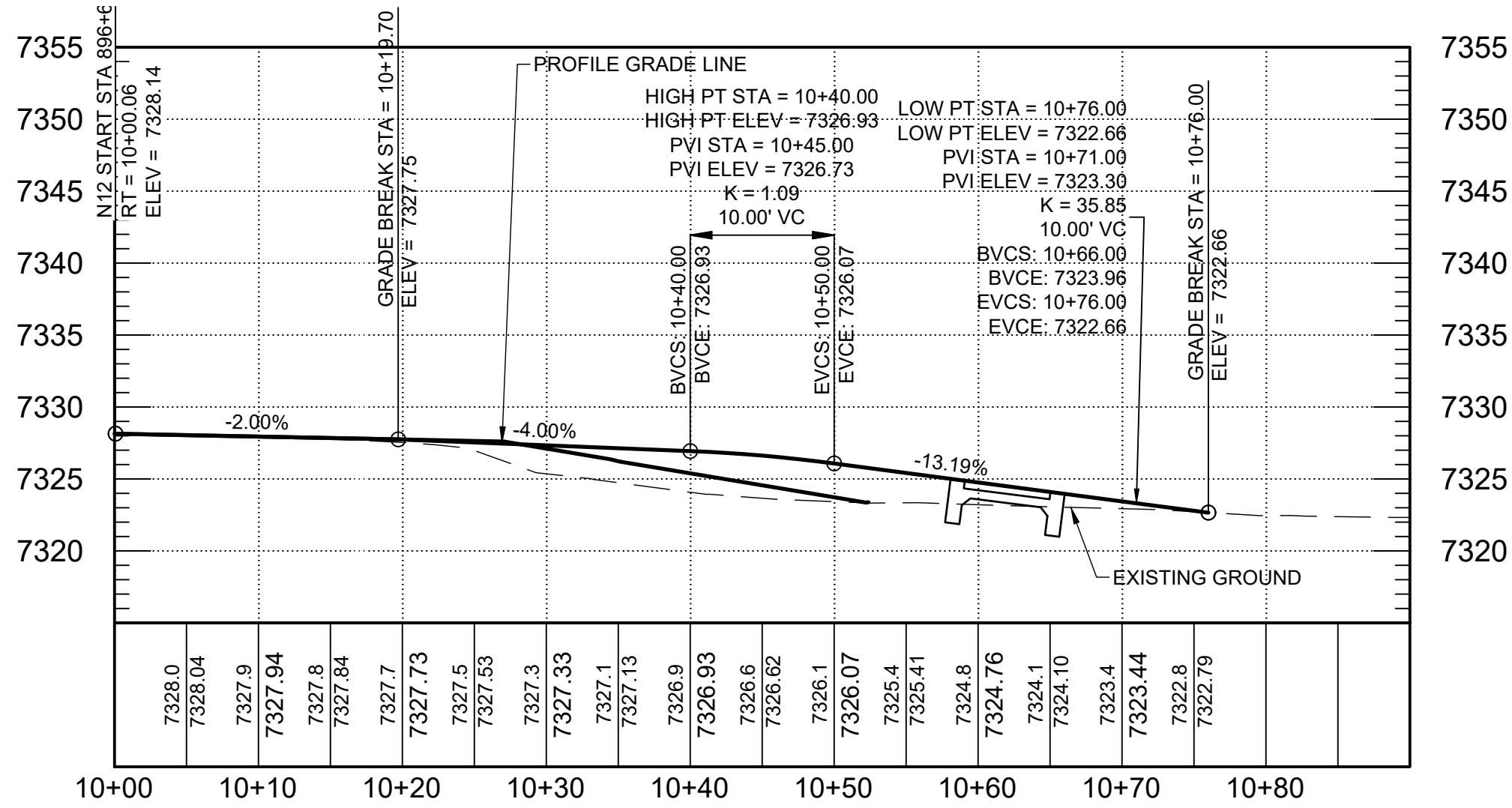


AGENCY LINE TO WHEATFIELDS LAKE

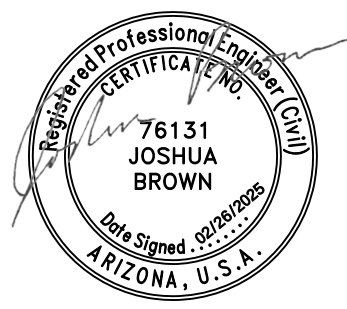
WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701		ROUTE N12			
		TURNOUT PROFILE			
	REVISIONS	NO.	DATE	REMARKS	BY
DESIGN		JEB	WCEA NO. 1710009012		DATE 2025
DRAWN		ERG	PROJECT NO. N12(13-2) 1,2,&4		SHEET NO. 73 OF 120
CHECK		ASF			

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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	74	120

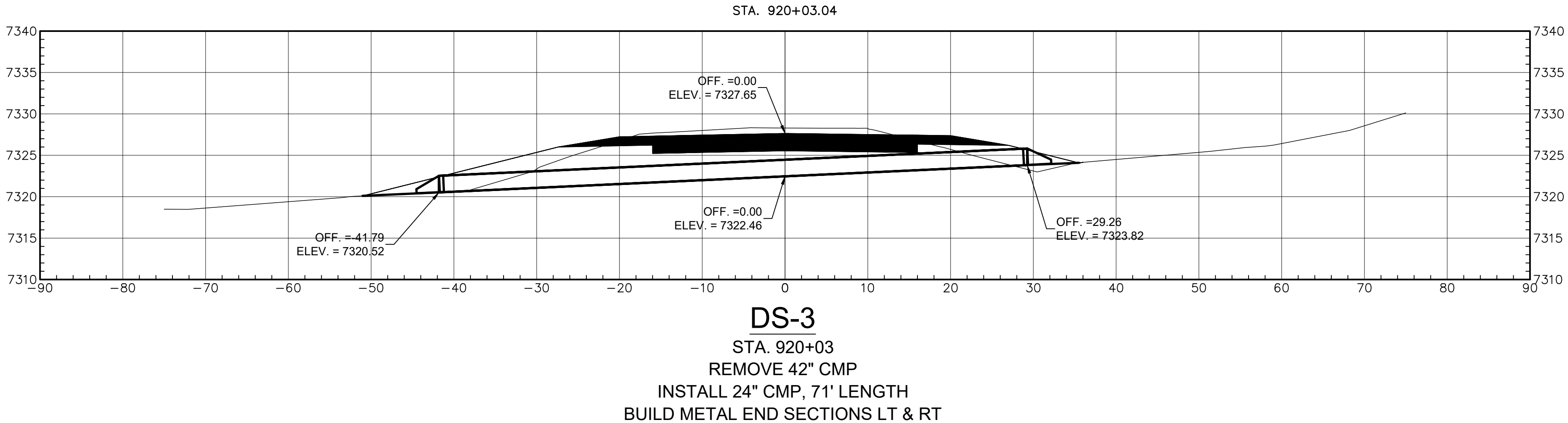
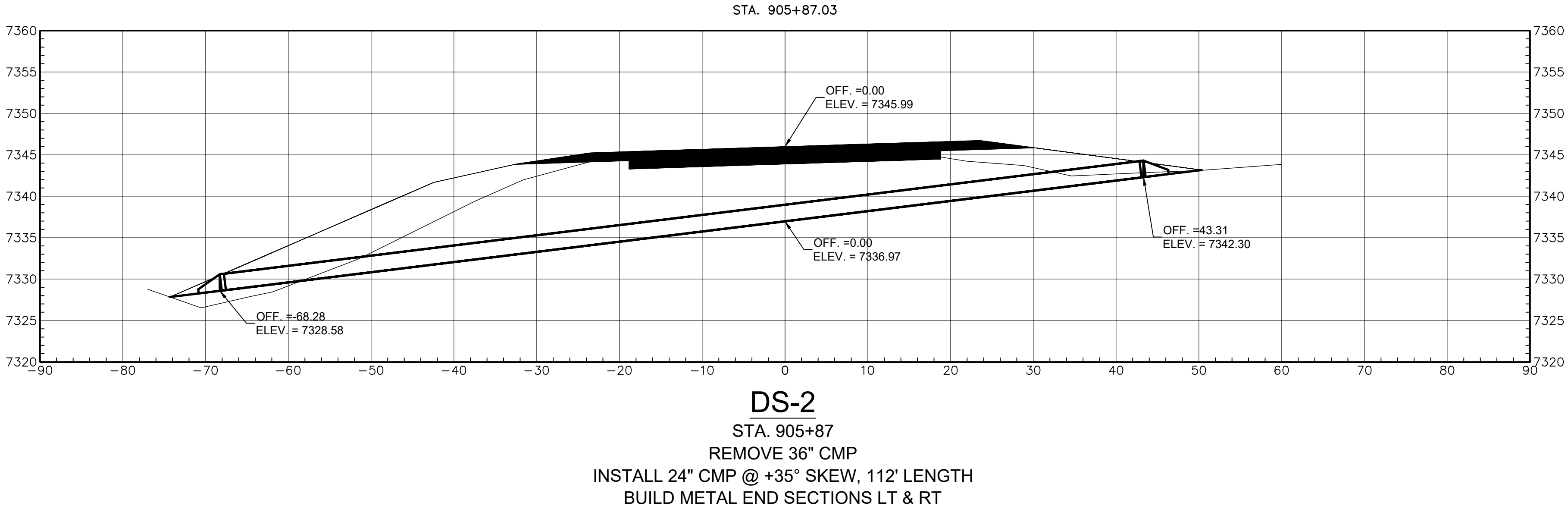
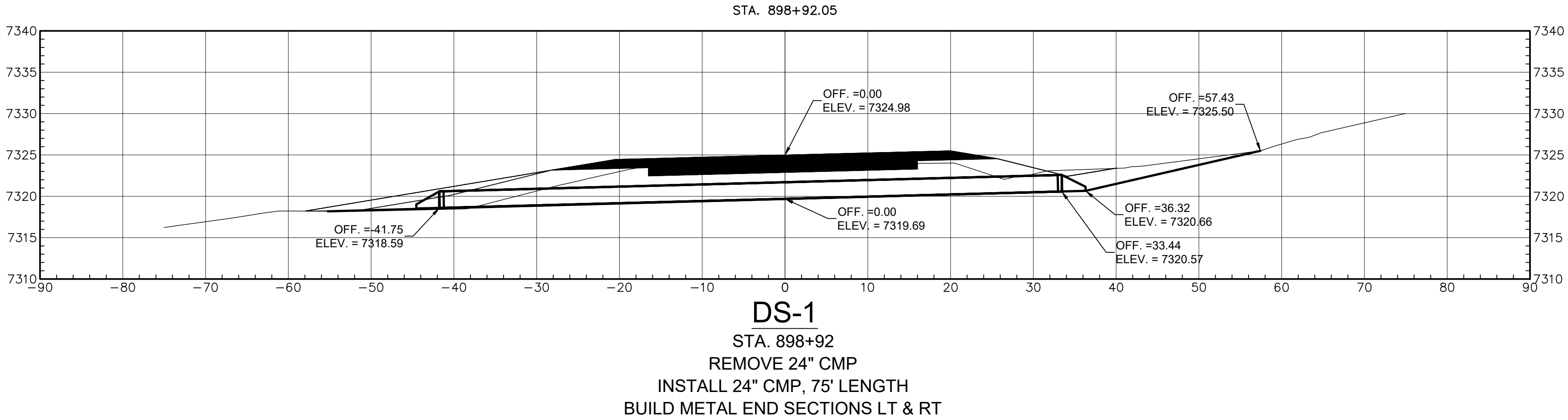


AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701	ROUTE N12				
	TURNOUT PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012		DATE 2025
	DRAWN	ERG	PROJECT NO. N12(13-2) 1,2,&4		SHEET NO. 74 OF 120
CHECK	ASF				

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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	76	48



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

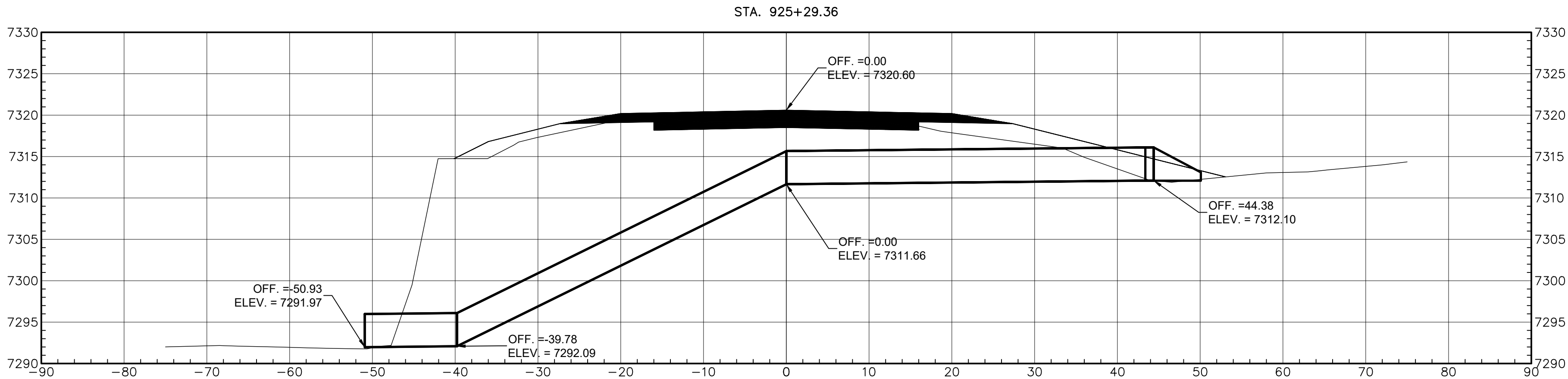
PIPE PROFILES



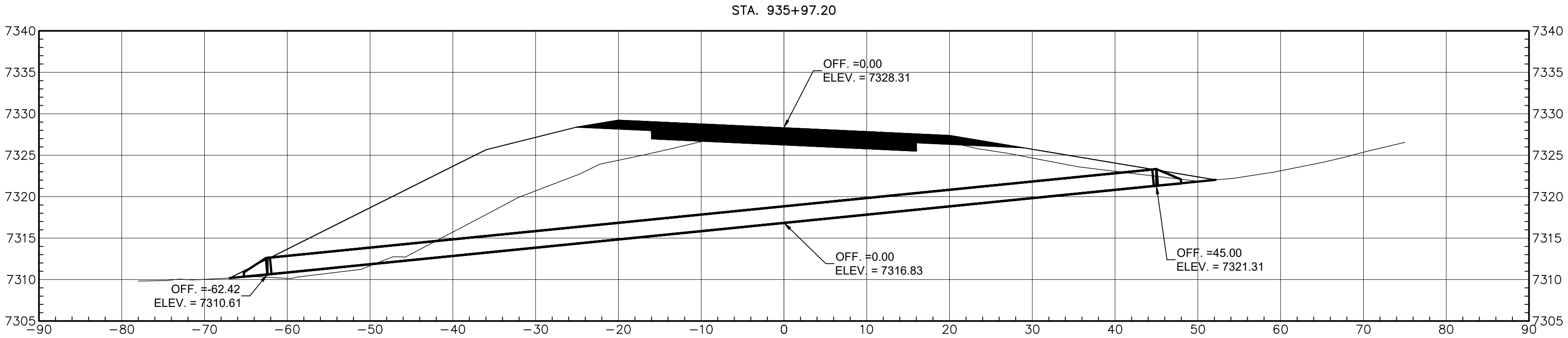
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DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	76 OF 48	

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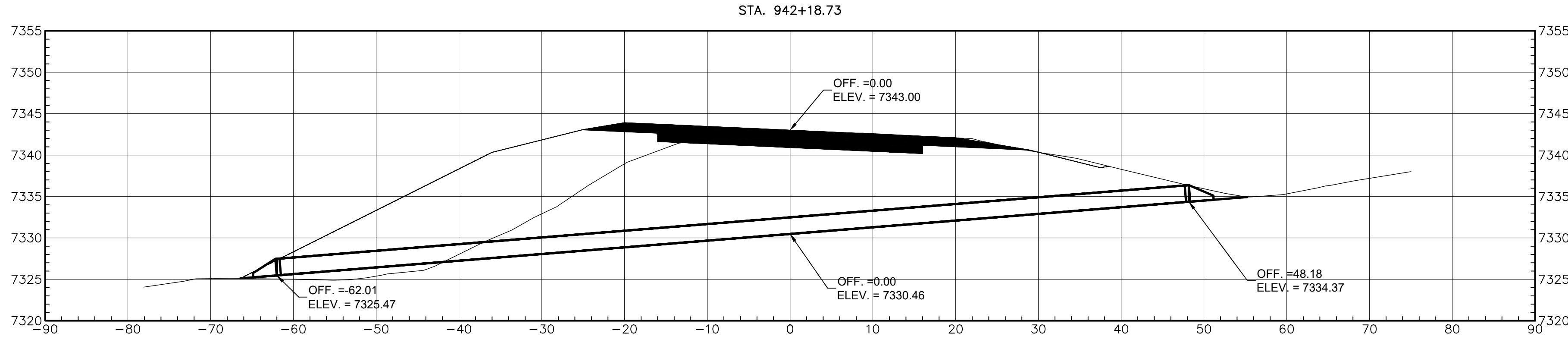
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	77	48



DS-4
STA. 925+29
REMOVE 78" CMP
INSTALL 48" CMP, 102' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-5
STA. 935+97
REMOVE 24" CMP
INSTALL 24" CMP, 108' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-6
STA. 942+19
REMOVE 24" CMP
INSTALL 24" CMP, 110' LENGTH
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

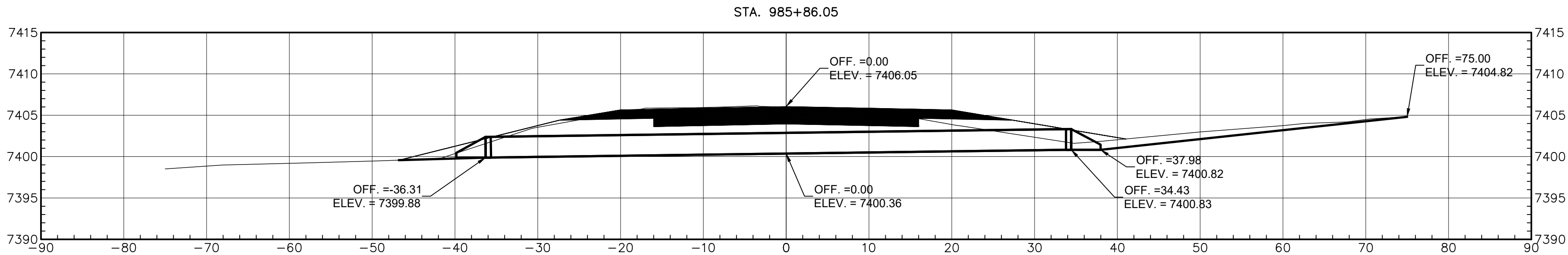
PIPE PROFILES



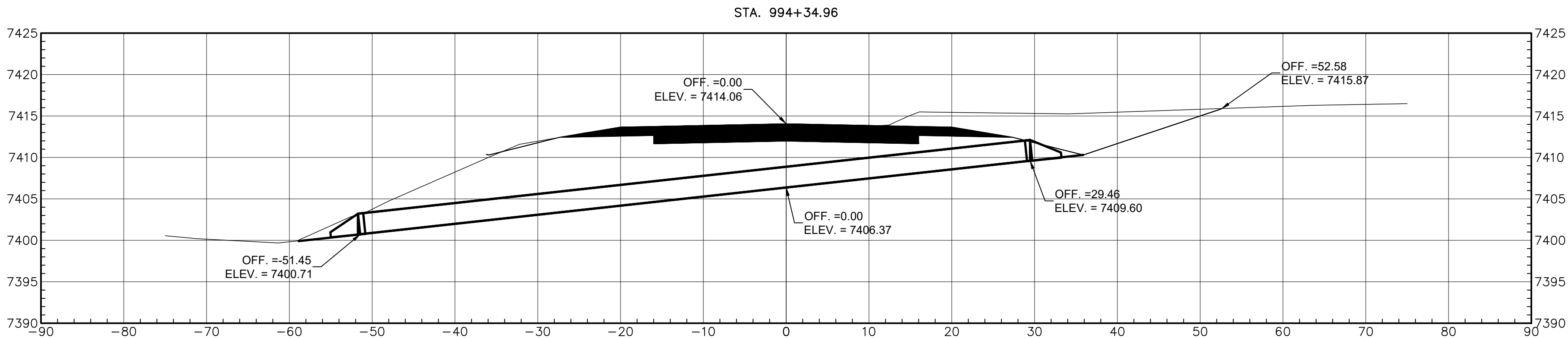
REVISIONS	NO.	DATE	REMARKS		BY
DESIGN	JEB	WCEA NO. 1710009012		DATE	2024
DRAWN	ERG	PROJECT NO.		SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4		77 OF 48	

M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS\3_SHEETS - ROADWAY\X-SECTIONS\PIPE PROFILE - 5.DWG2/26/2025 6:51 AM

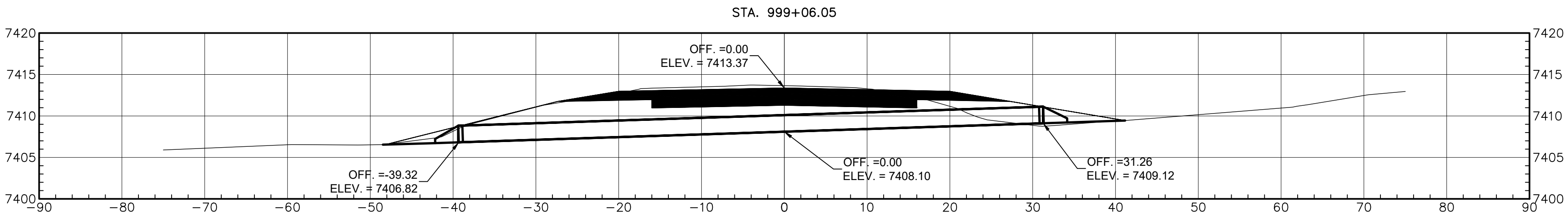
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	80	48



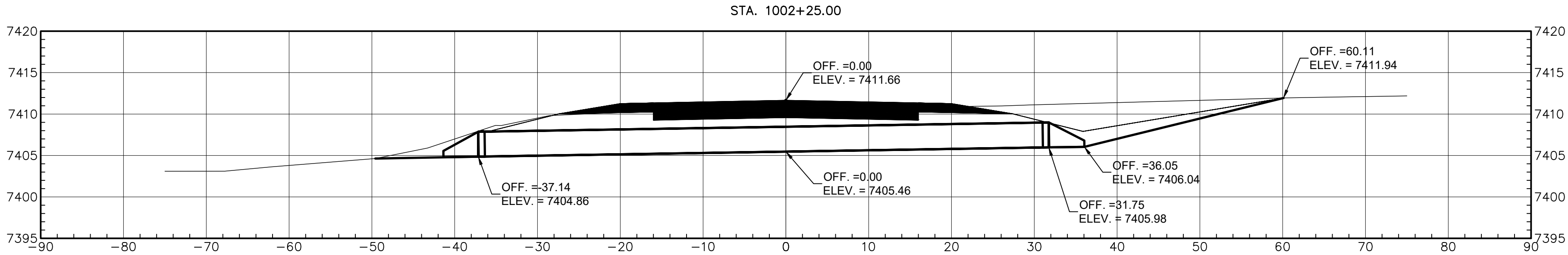
DS-13
STA. 985+86
REMOVE 42" CMP AND INSTALL 30" CMP, 71' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-14
STA. 994+35
REMOVE 42" CMP AND INSTALL 30" CMP, 82' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-15
STA. 999+06
REMOVE 30" CMP AND INSTALL 24" CMP, 71' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-16
STA. 1002+25
REMOVE 42" CMP AND INSTALL 36" CMP, 69' LENGTH
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**

410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

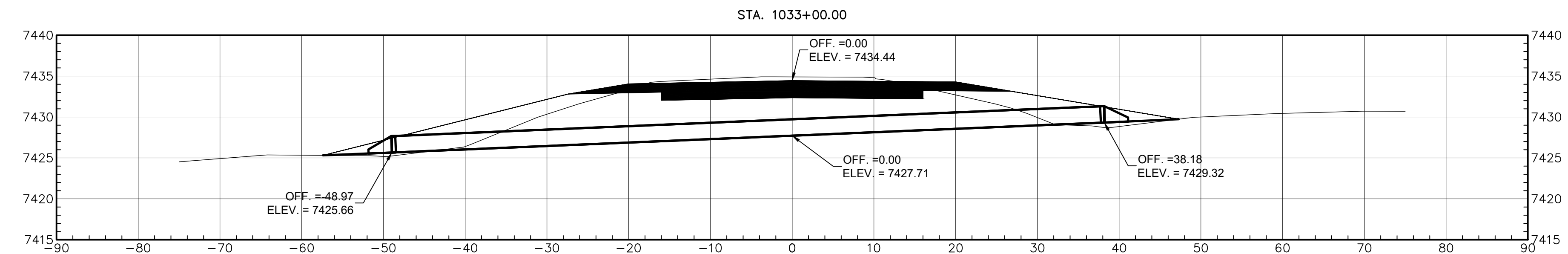


ROUTE N12

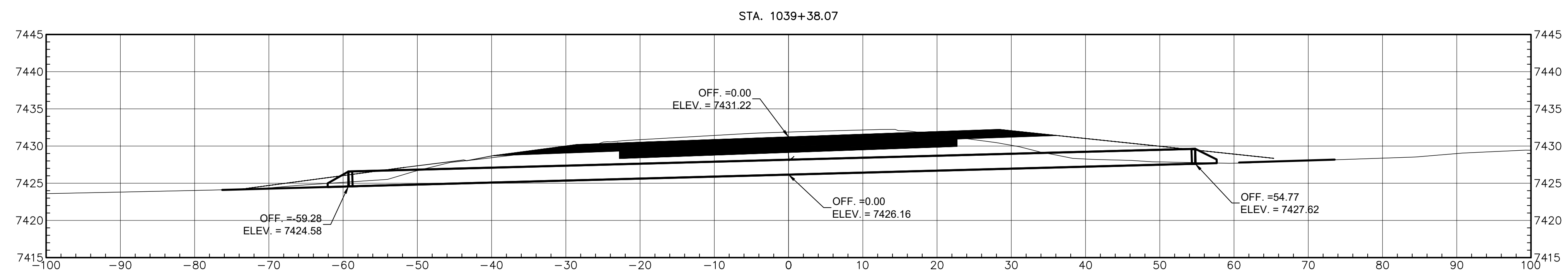
PIPE PROFILES

REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	80 OF 48	

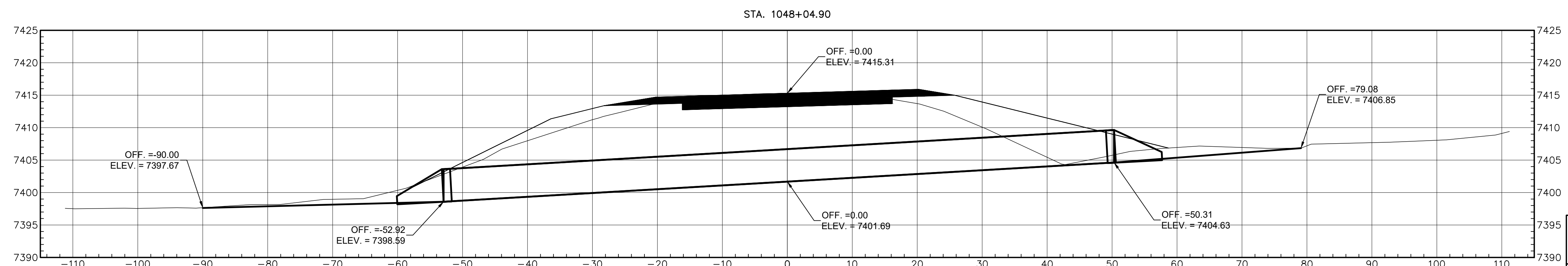
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	82	48



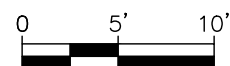
DS-20
STA. 1033+00
REMOVE 24" CMP
INSTALL 24" CMP, LENGTH 87'
BUILD METAL END SECTIONS LT & RT



DS-21
STA. 1039+38
REMOVE 60" CMP
INSTALL 24" CMP @ -46° SKEW, LENGTH 114'
BUILD METAL END SECTIONS LT & RT



DS-22
STA. 1048+05 AND 1048+27
REMOVE 84" CMP
INSTALL 2-60" CMP @ +9° SKEW, LENGTH 2-104'
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

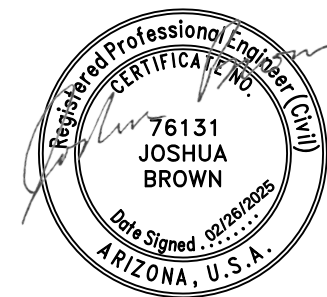
WILSON
& COMPANY

410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

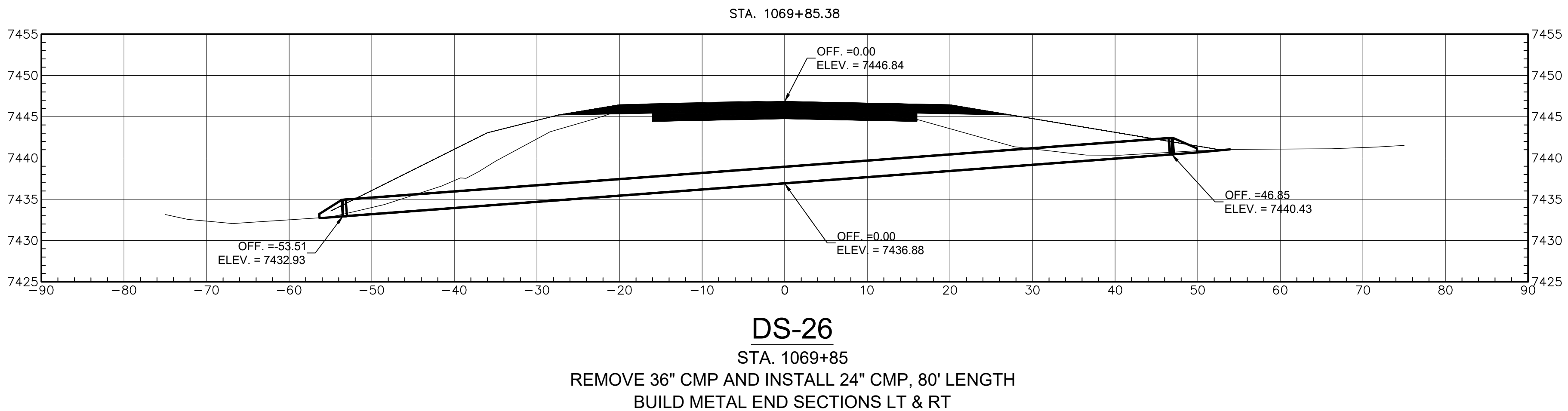
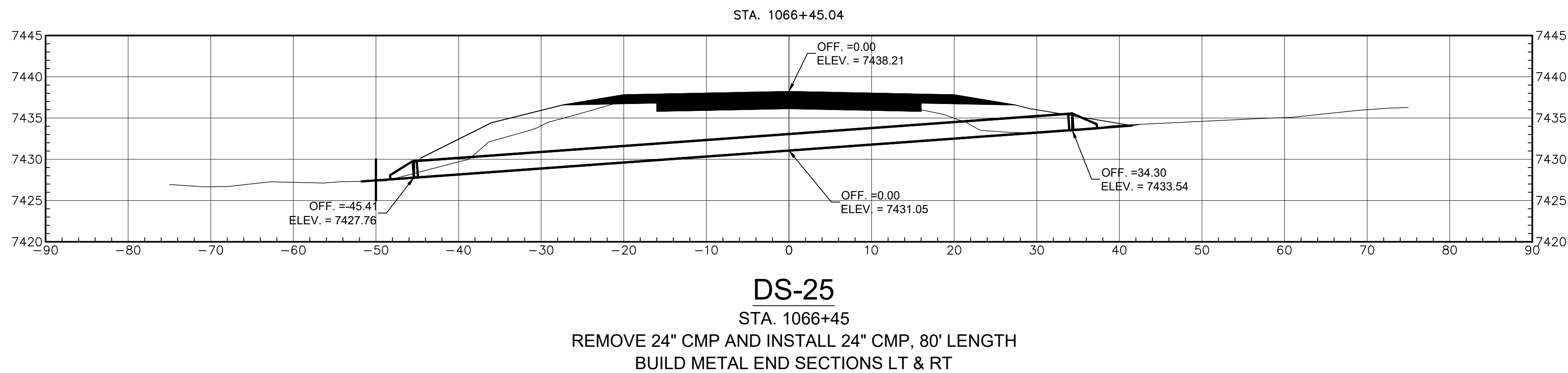
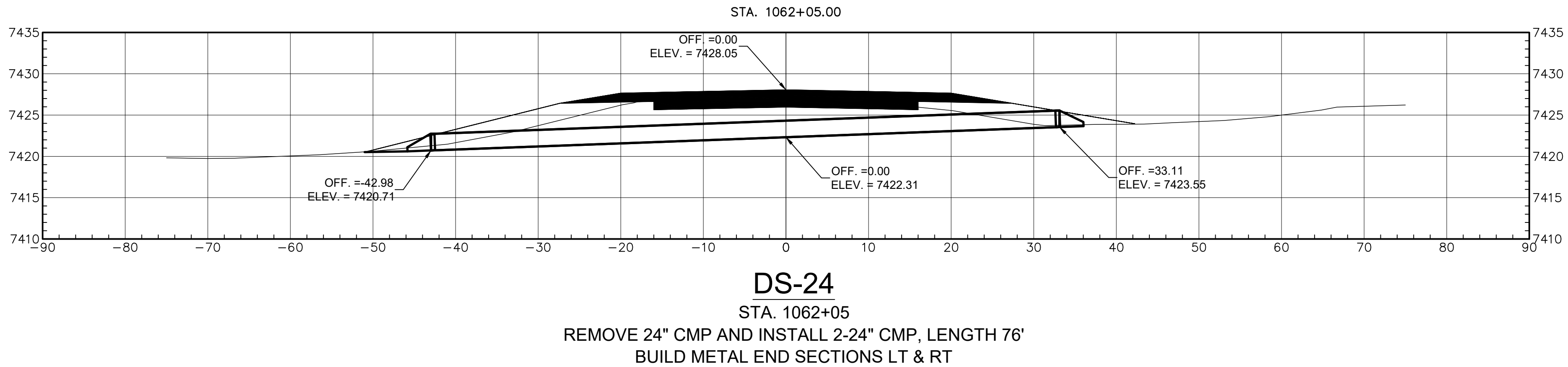
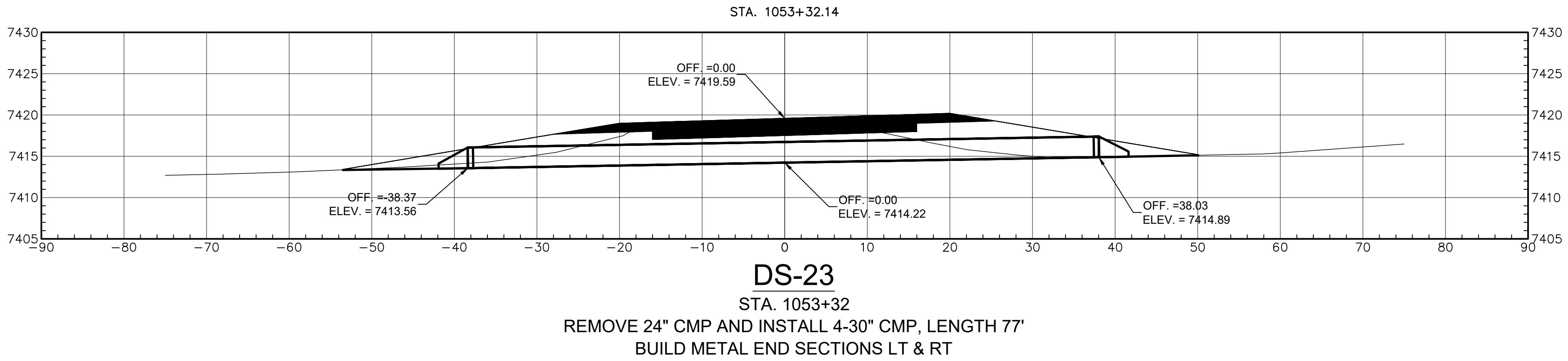
PIPE PROFILES

REVISIONS	NO.	DATE	REMARKS		BY
DESIGN		JEB	WCEA NO. 1710009012	DATE	2024
DRAWN		ERG	PROJECT NO.	SHEET NO.	
CHECK		ASF	N12(13-2) 1,2,&4	82 OF	48



M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS\3_SHEETS - ROADWAY\X-SECTIONS\PIPE PROFILE - 8.DWG2/26/2025 6:52 AM

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	83	48



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**

410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

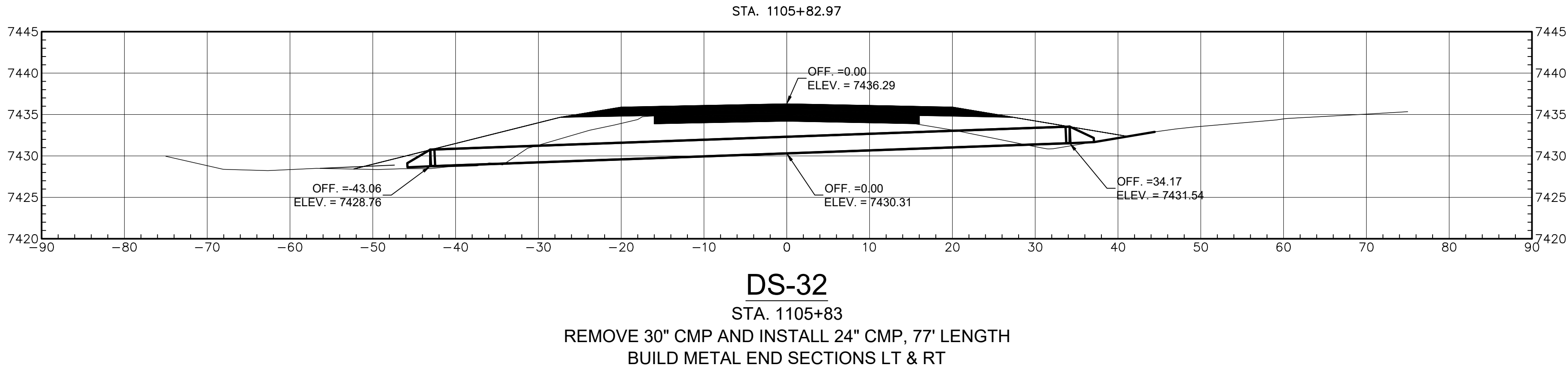
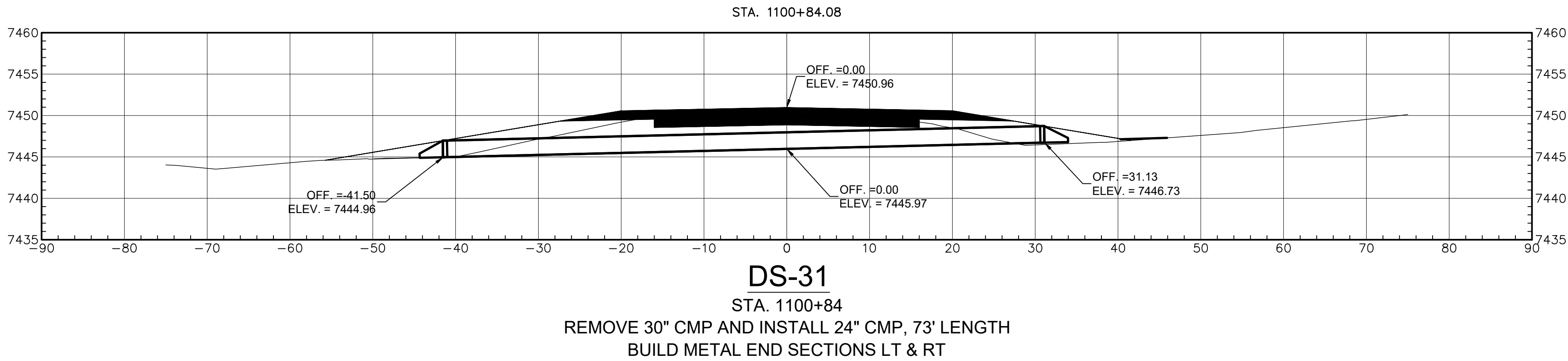
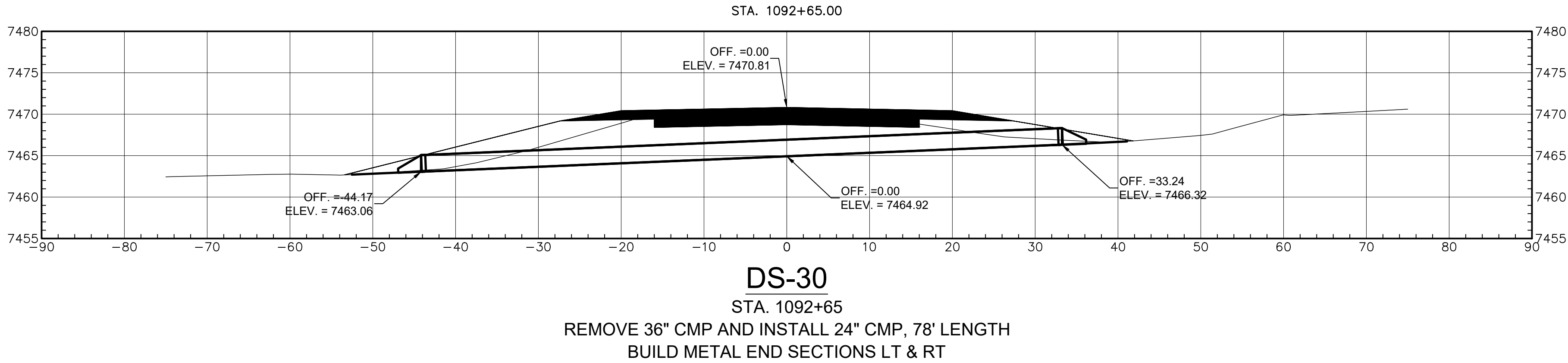
PIPE PROFILES



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	83 OF 48	

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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	85	48



AGENCY LINE TO WHEATFIELDS LAKE

WILSON

& COMPANY

410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA, 85008
(602) 283-2701

REVISIONS

NO.

DATE

REMARKS

BY

DESIGN

JEB

WCEA NO. 1710009012

DATE

2024

DRAWN

ERG

PROJECT NO.

SHEET NO.

CHECK

ASF

N12(13-2) 1,2,&4

85 OF 48

Professional Engineer (Civil)

CERTIFICATE NO.

76131

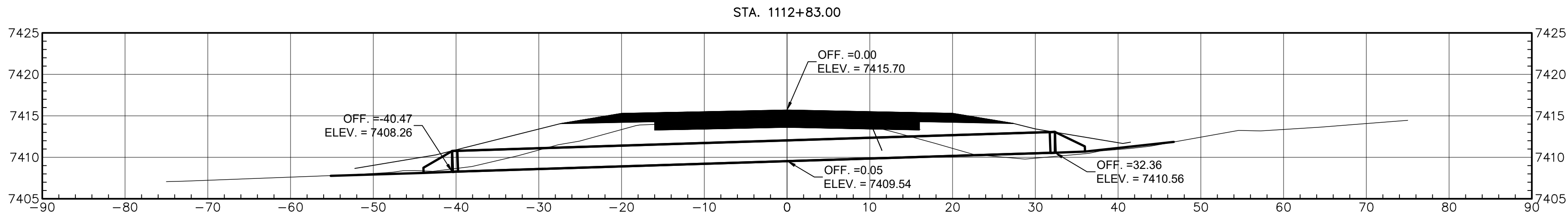
JOSHUA BROWN

Date Signed: 04/19/2025

ARIZONA, U.S.A.

M:\TRN\17-100-090-12\2_DISCIPLINES\SHEETS\3_SHEETS - ROADWAY\X-SECTIONS\PIPE PROFILE - 11.DWG2/26/2025 6:52 AM

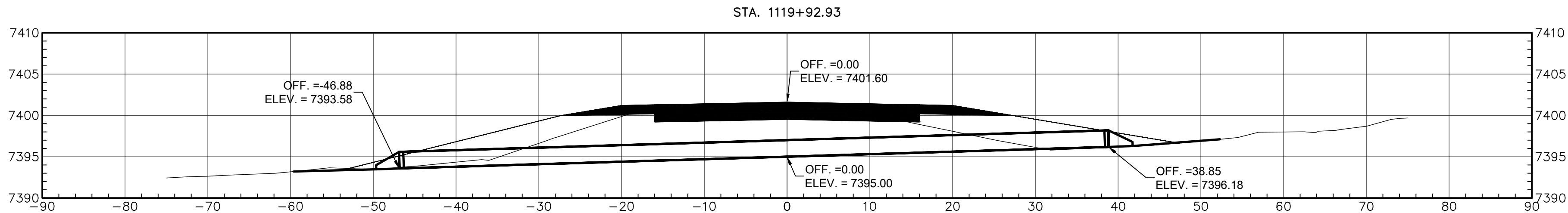
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	86	48



DS-33

STA. 1112+83

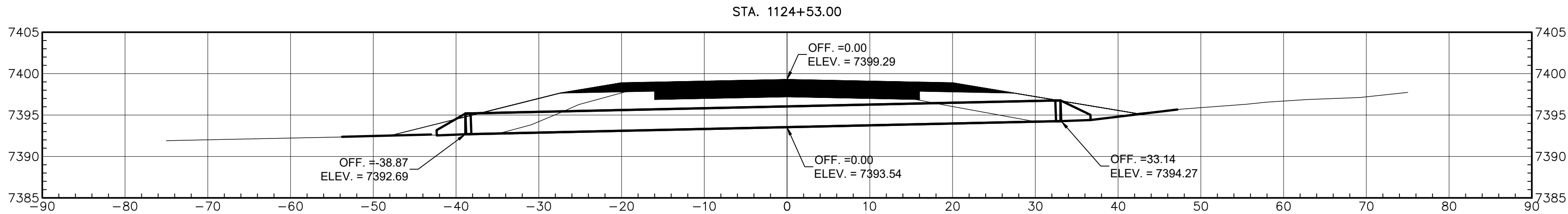
REMOVE 30" CMP AND INSTALL 30" CMP, 73' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-34

STA. 1119+93

REMOVE 42" CMP AND INSTALL 24" CMP, 86' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-35

STA. 1124+53

REMOVE 30" CMP AND INSTALL 30" CMP, 72' LENGTH
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

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410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701



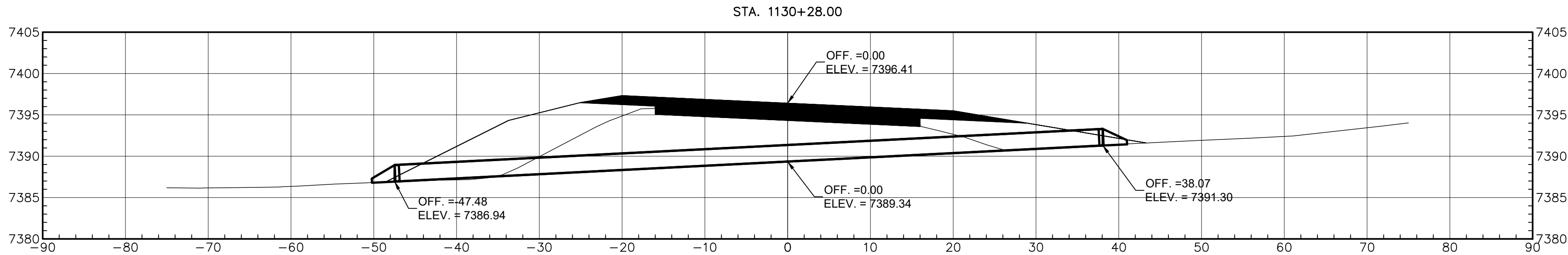
ROUTE N12

PIPE PROFILES

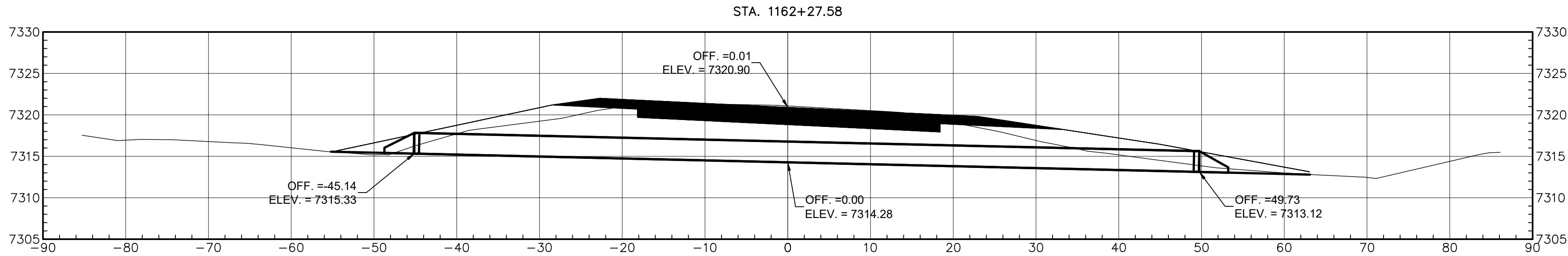
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	86 OF 48	

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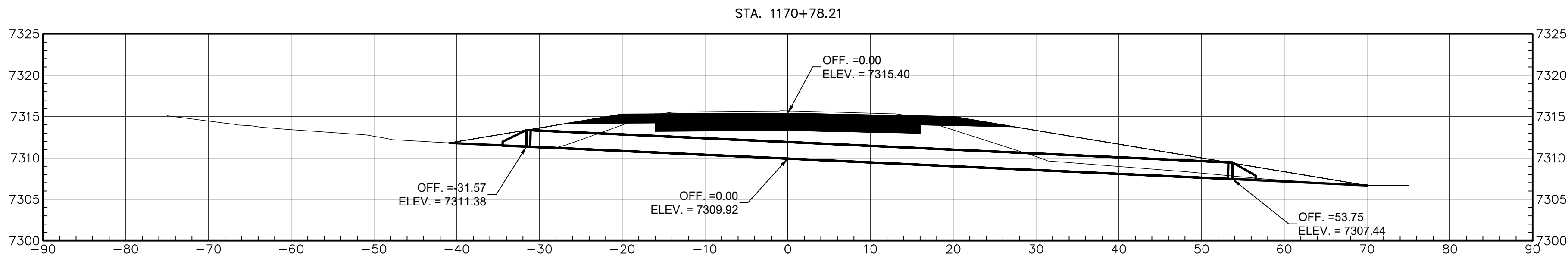
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	87	48



DS-36
STA. 1130+28
REMOVE 36" CMP AND INSTALL 24" CMP, 86' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-40
STA. 1162+28
INSTALL 30" CMP, 95' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-41
STA. 1170+78
REMOVE 30" CMP AND INSTALL 24" CMP, 86' LENGTH
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

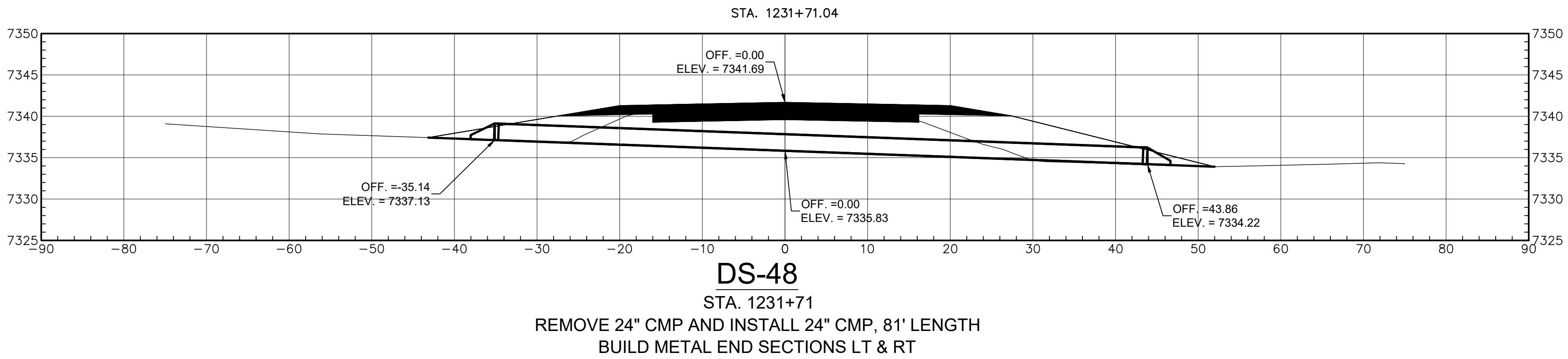
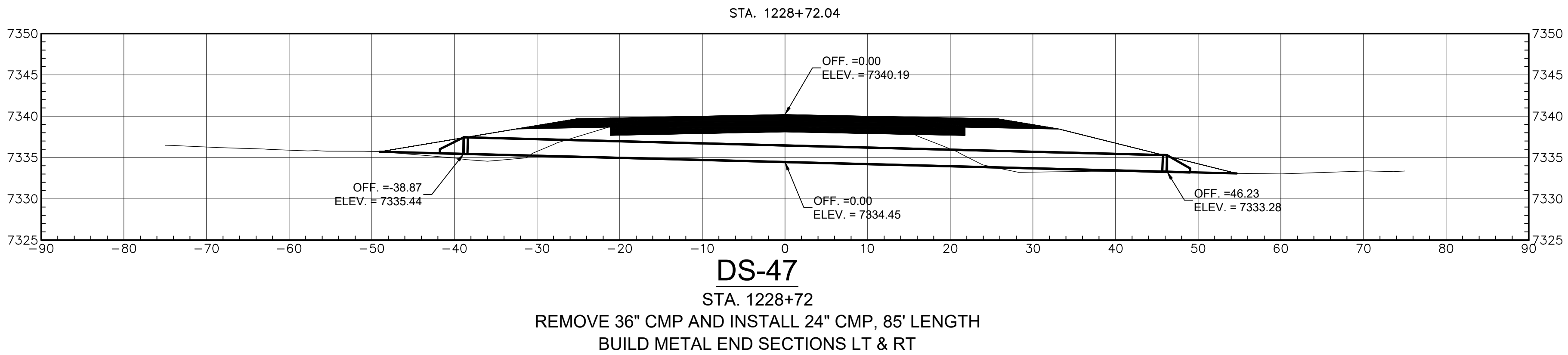
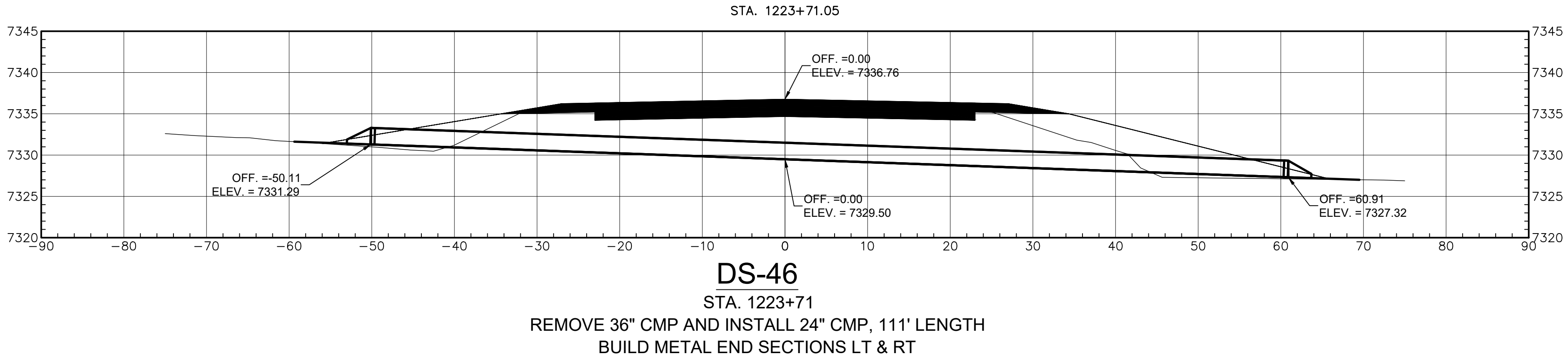
WILSON & COMPANY
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701



ROUTE N12				
PIPE PROFILES				
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	87 OF 48	

M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS\3_SHEETS - ROADWAY\X-SECTIONS\PIPE PROFILE - 15.DWG2/26/2025 6:53 AM

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	89	48



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

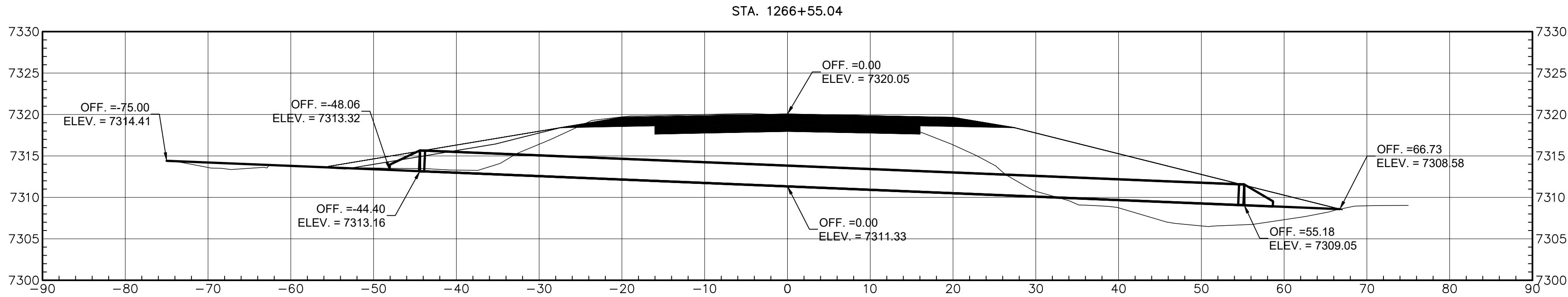
PIPE PROFILES



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	89 OF 48	

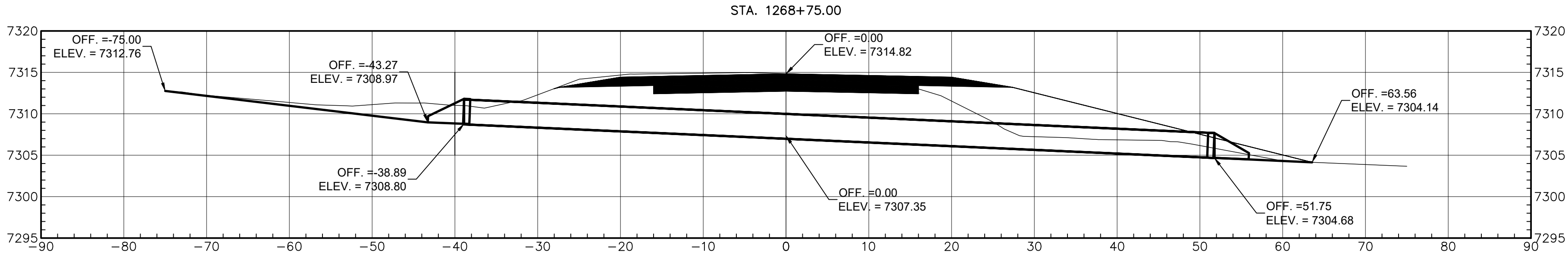
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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	91	48



DS-53

STA. 1266+55
REMOVE 36" CMP AND INSTALL 30" CMP, 100' LENGTH
BUILD METAL END SECTIONS LT & RT



DS-54

STA. 1268+75
REMOVE 36" CMP AND INSTALL 36" CMP, 91' LENGTH
BUILD METAL END SECTIONS LT & RT



AGENCY LINE TO WHEATFIELDS LAKE

**WILSON
& COMPANY**
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

ROUTE N12

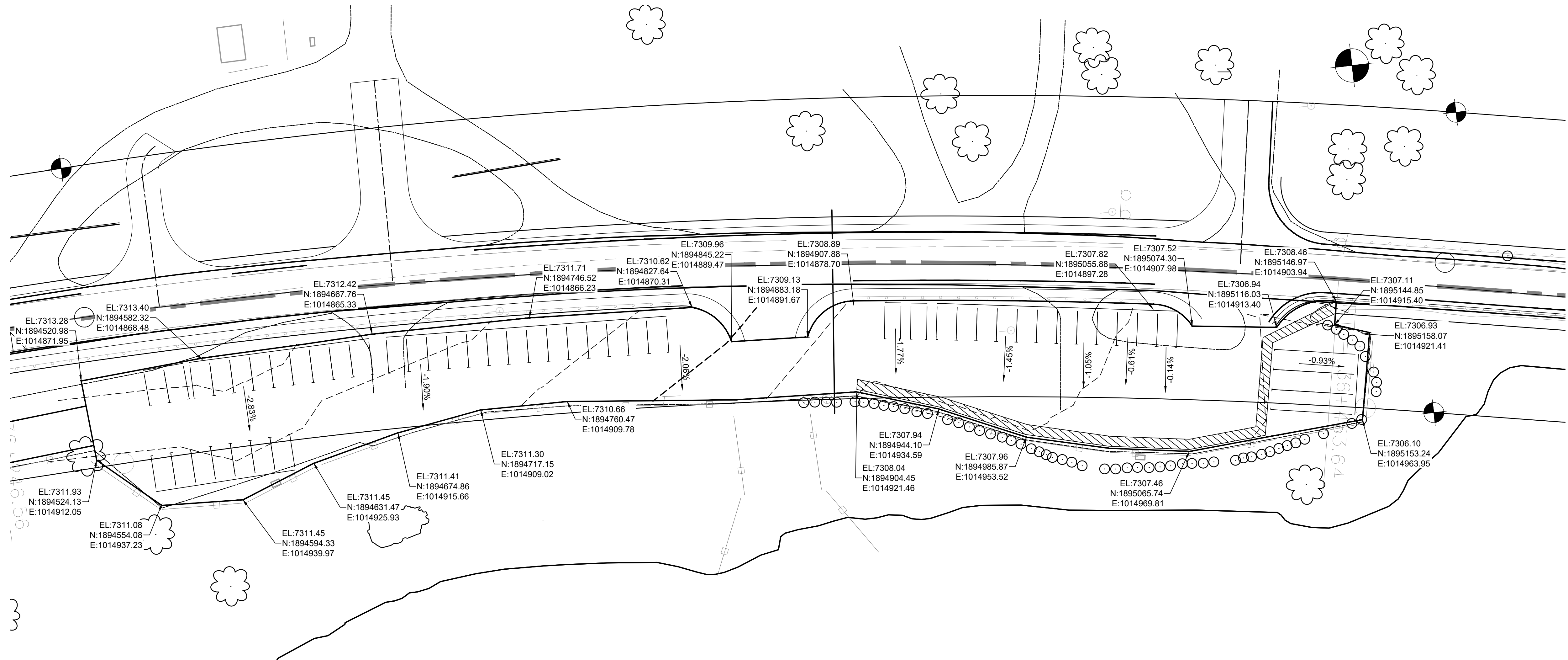
PIPE PROFILES



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2024
DRAWN	ERG	PROJECT NO.	SHEET NO. 91 OF 48	
CHECK	ASF	N12(13-2) 1,2,&4		

M:\TRN\17-100-090-12\2_DISCIPLINES\REFERENCES\REC AREA PARKING.DWG/26/2025 8:27 AM

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	92	120



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701		ROUTE N12			
		REC AREA PARKING			
REVISIONS	NO.	DATE	REMARKS	BY	
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025	
DRAWN	ERG	PROJECT NO.	SHEET NO.		
CHECK	ASF	N12(13-2) 1,2,&4	92	OF 120	



M:\TRN\17-100-090-12\2_DISCIPLINES\SHEETS\4_SHEETS - STRUCTURAL\WHISKEY RIVER\PLN_ELEV.DWG2/25/2025 3:25 PM

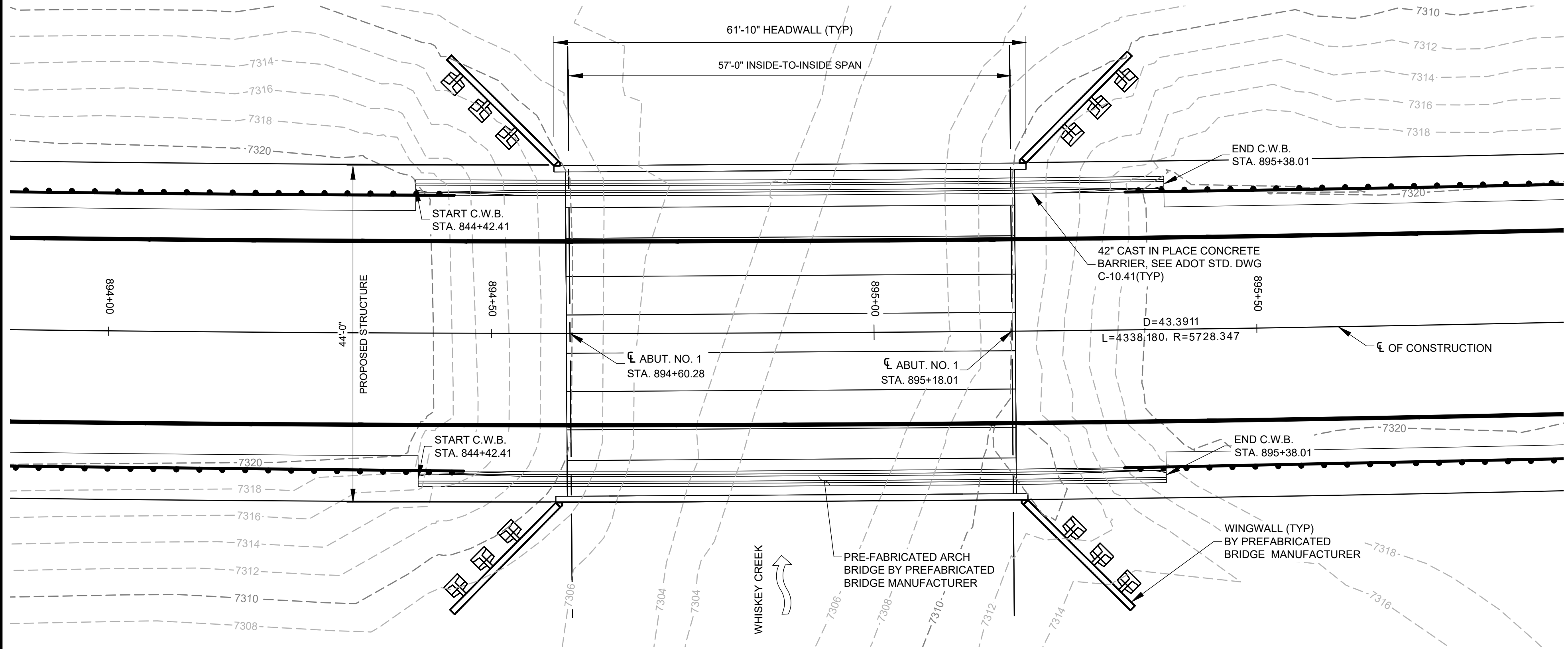
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	117	120

NOTES:

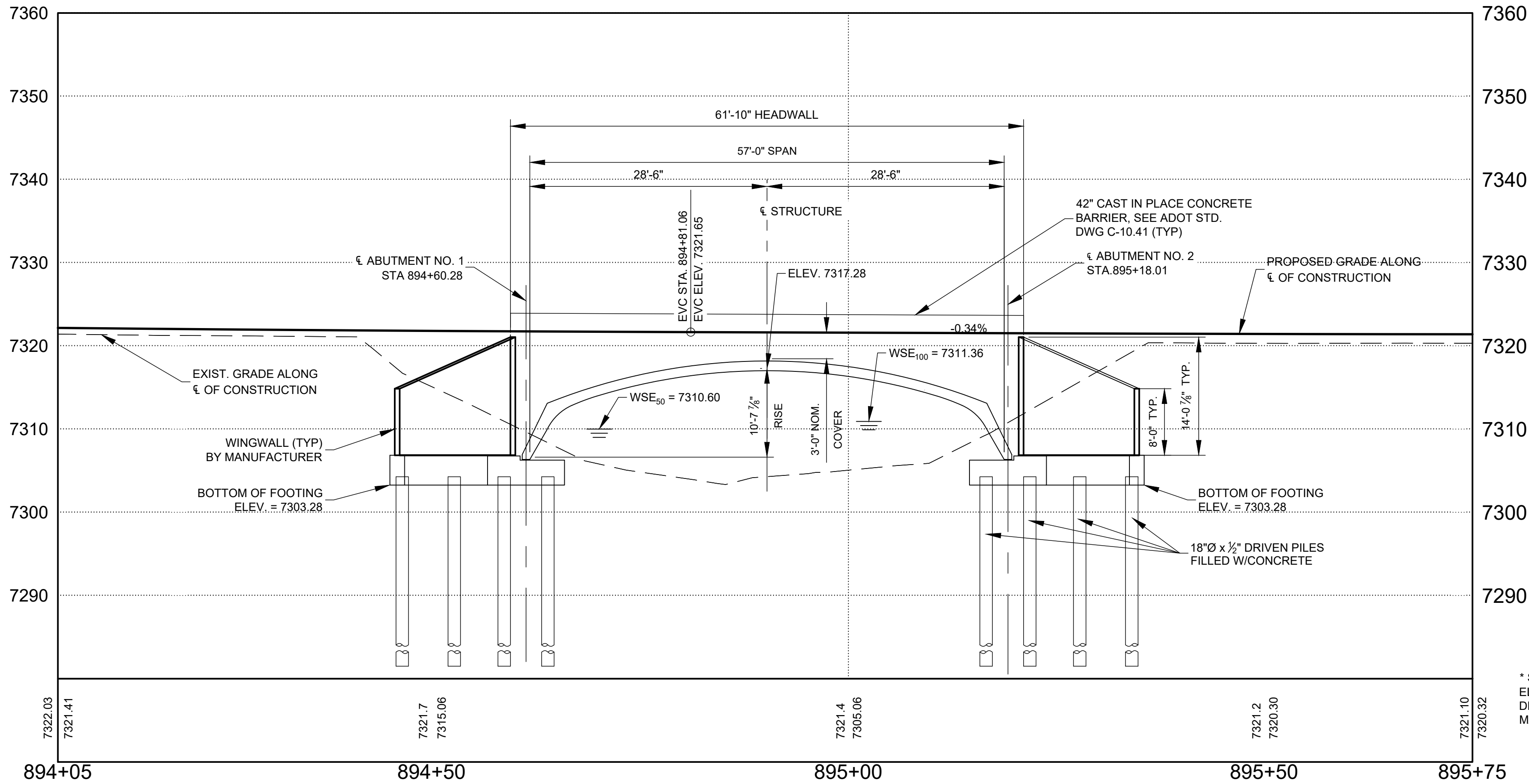
1. DETAILS ARE SHOWN FOR INFORMATION PURPOSES ONLY. ACTUAL DIMENSIONS AND STRUCTURAL DETAILING SHALL BE PROVIDED BY PREFABRICATED BRIDGE MANUFACTURER.

WATERWAY DATA:

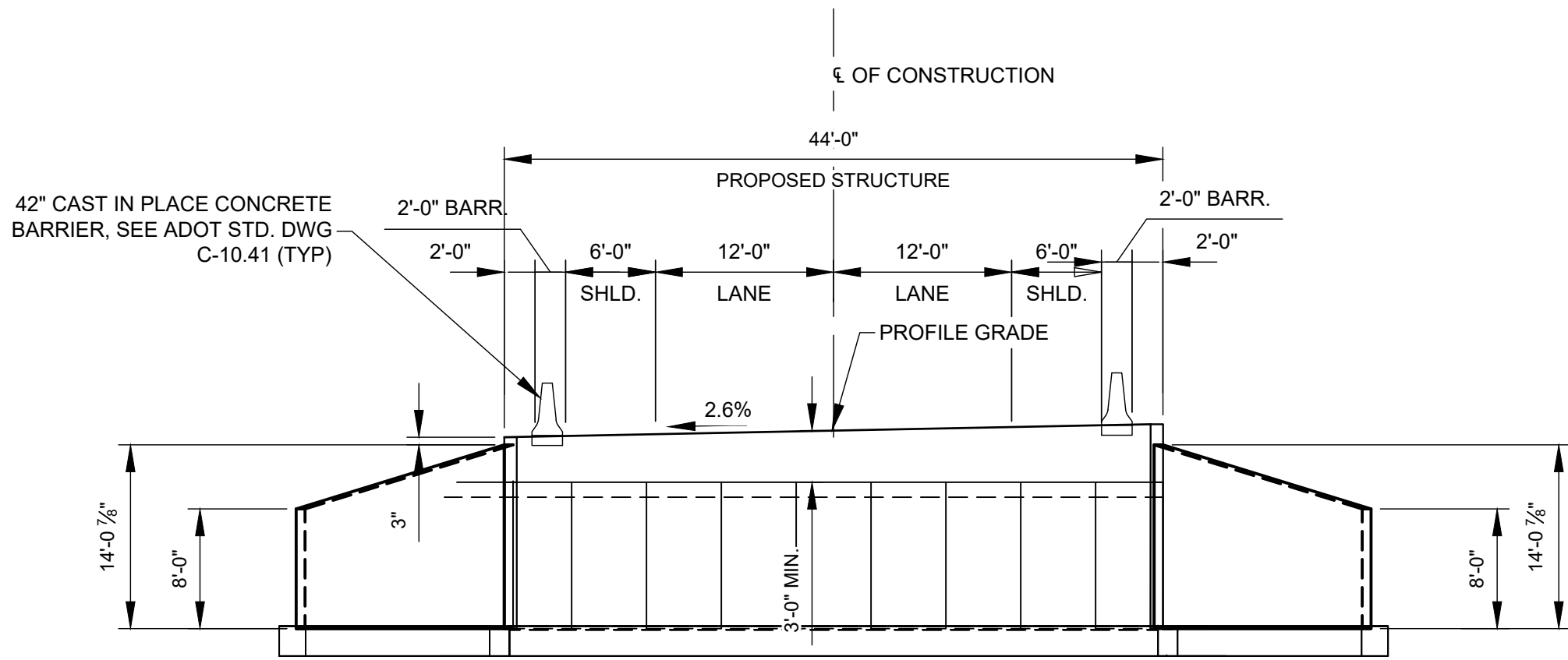
WATERWAY:	WHISKEY CREEK
DRAINAGE AREA:	32.26 SQ. MILE
Q ₁₀₀ :	3337.00 CFS
V ₁₀₀ :	12.07 FT/S
WSE ₁₀₀ :	7311.36 FT
WSE ₅₀ :	7310.60 FT
100 YEAR SCOUR:	12.50 FT
FREEBOARD:	2.00 FT



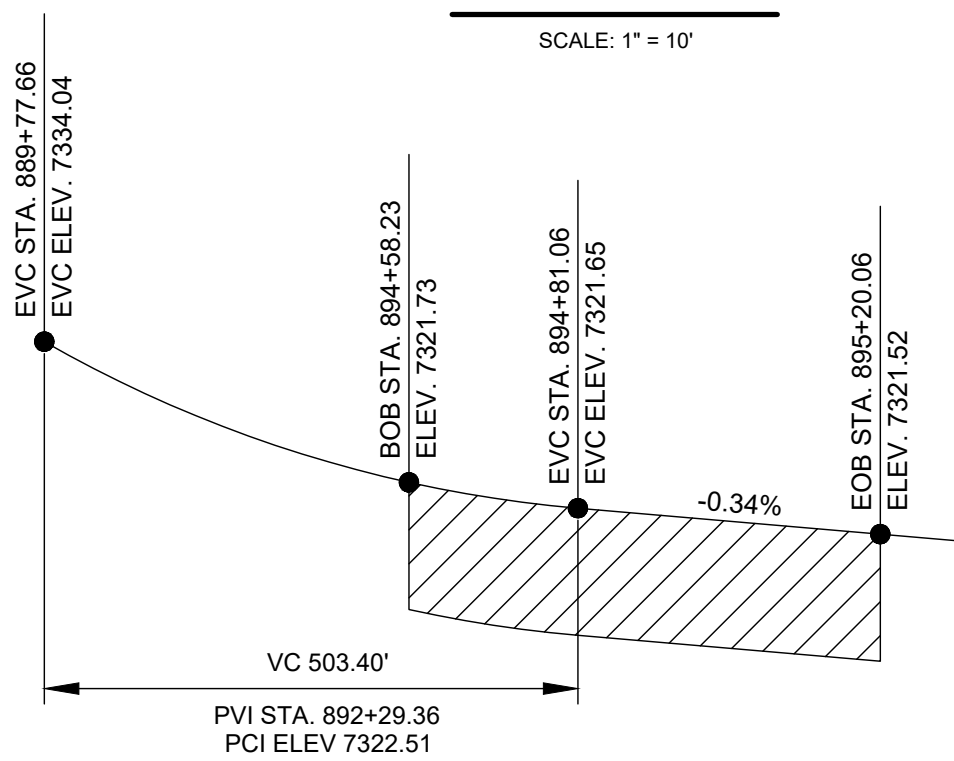
N12 PLAN VIEW
SCALE = 1" = 10'



N12 PROFILE VIEW
SCALE: 1" = 10'



ELEVATION
SCALE: 1" = 10'



PROFILE GRADE DATA
ALONG C/L OF CONSTRUCTION

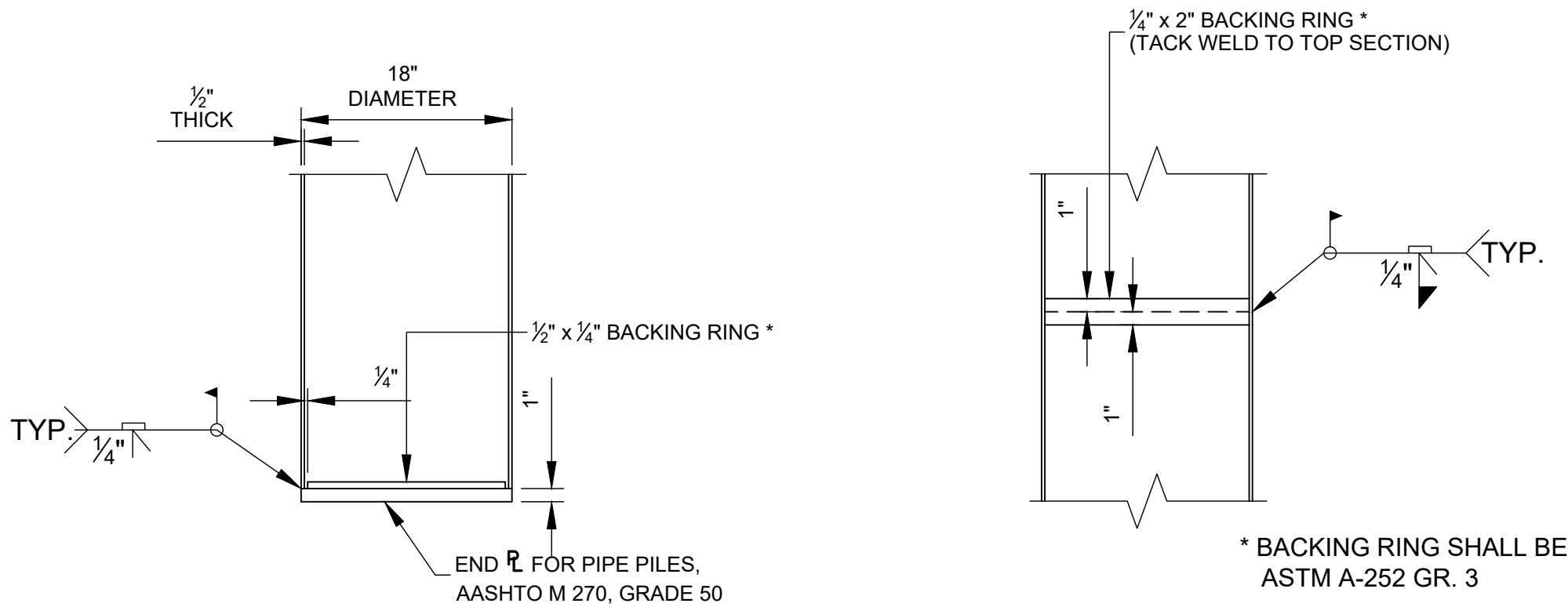
WHEAT FIELDS LAKES				
WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701		ROUTE N12		
		BRIDGE PLAN & ELEVATION		
	REVISIONS	NO.	DATE	REMARKS
DESIGN	CJC	WCEA NO. 1710009012	DATE	2021
DRAWN	CJC	PROJECT NO.	SHEET NO.	
CHECK	DJL	N12(13-2) 1,2,&4	117 OF 120	

M:\TRN\17-100-090-12\2_DISCIPLINES\4_SHEETS\4_SHEETS - STRUCTURAL\WHISKEY RIVER\FDN_PLN.DWG2/25/2025 3:25 PM

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	118	120

DRIVEN PILE NOTES:

1. SOCKET PILES A MINIMUM OF FIVE FEET INTO BEDROCK OR UNTIL REQUIRED BEARING LOAD IS ACHIEVED, WHICHEVER LENGTH IS GREATER.
2. THE CONTRACTOR SHALL DETERMINE THE BEARING VALUES OF THE INDIVIDUAL PILES ACCORDING TO ADOT STANDARD SPECIFICATIONS 603-3.08.
3. INFORMATION PERTAINING TO THE GEOTECHNICAL CONDITIONS CAN BE OBTAINED FROM THE GEOTECHNICAL REPORT BY AMEC ENVIRONMENT & INFRASTRUCTURE, INC. DATED 2014.
4. PER ADOT CONSTRUCTION MANUAL, SECTION 603-3.04, THE CONTRACTOR IS REQUIRED TO ASSIST IN INSPECTING COMPLETED DRIVEN PILE EXCAVATIONS FOR THE CORRECT DEPTH, PLUMBNESS, AND DIAMETER.



PILE REQUIREMENTS											
LOCATION	PILE TYPE	NO. OF TEST PILES	NO. OF PRODUCTION PILES	ESTIMATED LENGTH PER PILE (LNFT)*	TOTAL ESTIMATED LENGTH (LNFT)	ESTIMATED CONCRETE VOLUME INSIDE EACH PIPE (CY)**	TOTAL CONCRETE VOLUME INSIDE PIPES (CY)**	ESTIMATED PREBORE LENGTH PER PILE (LNFT)*	ESTIMATED PILE TIP ELEVATION	APPLIED STRUCT. LOAD (PILE DESIGN) (kip)	ULTIMATE CAPACITY (kip)
ABUTMENT NO. 1 CL PILES STA. 894+60.28	STEEL PIPE PILE 18"φ x 1/2" FILLED WITH CONCRETE	1	20	33.00	660	2.16	43.20	32.00	7271.28	132.8	400
ABUTMENT NO. 2 CL PILES STA. 895+18.01	STEEL PIPE PILE 18"φ x 1/2" FILLED WITH CONCRETE	1	20	33.00	660	2.16	43.20	32.00	7271.28	132.8	400

* ESTIMATED PILE LENGTH AND ESTIMATED PREBORE LENGTH BASED ON LONGEST PILE IN FOUNDATION. INFORMATION IS PROVIDED FOR ESTIMATING PURPOSES ONLY. ACTUAL PILE LENGTH AND BREBORE LENGTH SHALL BE DETERMINED IN THE FIELD BASED ON TEST PILE INSTALLATION AND ADJUSTMENTS FOR DRIVING TO GAIN REQUIRED PILE CAPACITY AS DETERMINED BY CONSTRUCTION INSPECTION OF DRIVING OPERATIONS.

** CONCRETE VOLUME TO BE INCLUDED IN BID ITEM 55101-0200 "CONCRETE FILLED STEEL PIPE PILE, IN PLACE." VOLUME IS FOR ESTIMATING PURPOSES ONLY. FINAL VOLUME SHALL BE DETERMINED IN THE FIELD BASED ON FINAL PILE LENGTH.

WHEAT FIELDS LAKES

WILSON & COMPANY

410 NORTH 44TH STREET, SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

Registered Professional Engineer
CERTIFICATE NO. 68900
TOM MELTON
Date Signed 08/25/2025
ARIZONA, U.S.A.

Tom Melton

ROUTE N12

FOUNDATION PLAN

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN	CJC	WCEA NO. 1710009012	DATE 2021
DRAWN	CJC	PROJECT NO. N12(13-2) 1,2,&4	SHEET NO. 118 OF 120
CHECK	DJL		

1. ALL REINFORCEMENT ON THIS SHEET IS TO BE GRADE 60 EPOXY COATED REBAR UNDER BID ITEM 55401-2000.
2. UNLESS NOTED OTHERWISE, REINFORCEMENT CLEAR DISTANCE IS TO BE 2".



ABUTMENT NO. 1 SHOWN, ABUTMENT NO. 2 SIMILAR
SCALE = 1 : 5



ABUTMENT NO. 1 SHOWN, ABUTMENT NO. 2 SIMILAR
SCALE = 1 : 5



ABUTMENT NO. 1 SHOWN, ABUTMENT NO. 2 SIMILAR
SCALE = 1 : 5

WHEAT FIELDS LAKES

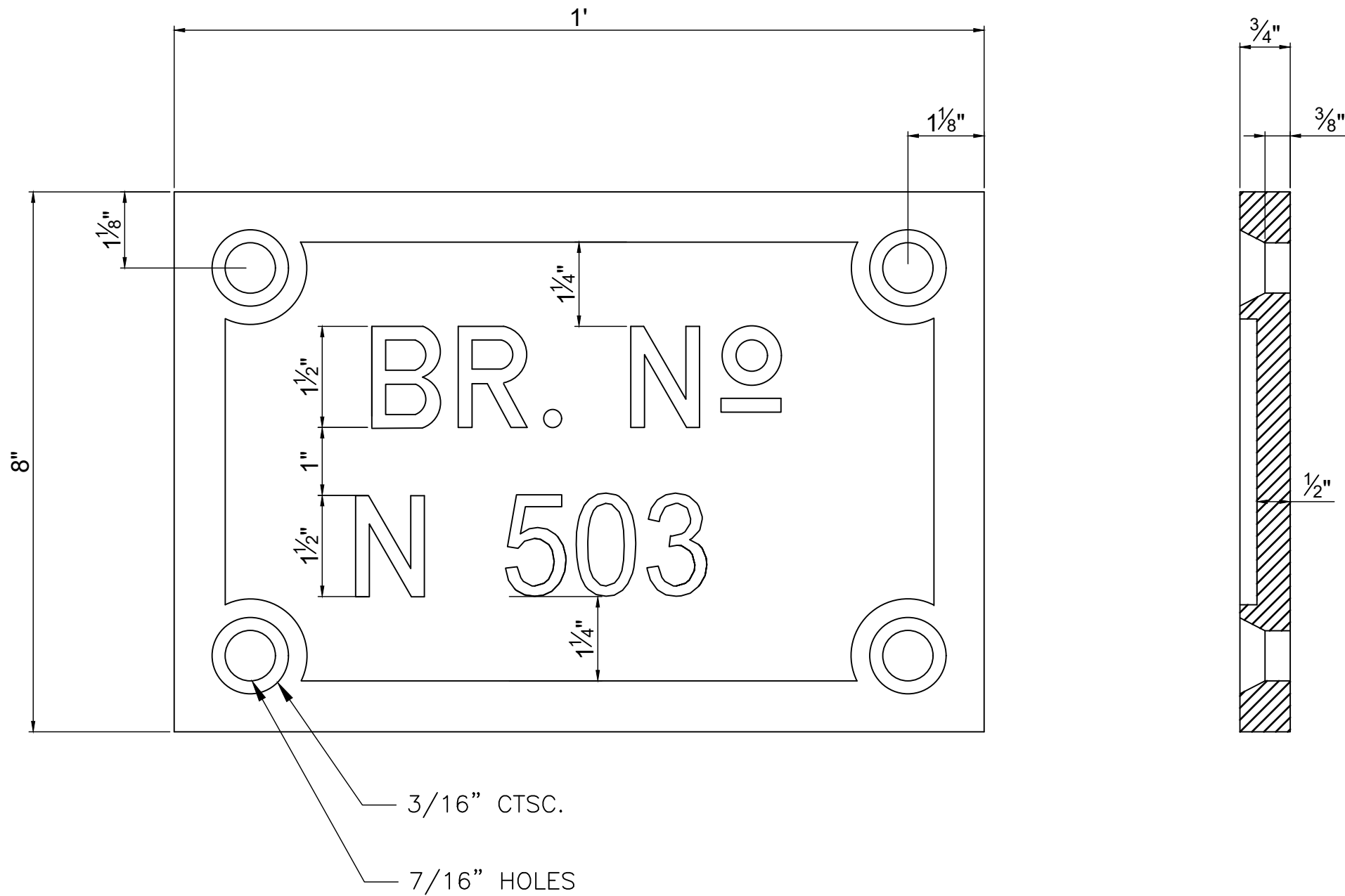
M:\TRN\17-100-090-12\2_DISCIPLINES\SHEETS\4_SHEETS - STRUCTURAL\WHISKEY RIVER\EST_QTY.DWG2/25/2025 3:27 PM

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	120	120

ITEM NUMBER	DESCRIPTION	UNIT	QTY
20301-0400	REMOVAL OF BRIDGE	EACH	1
20801-0000	STRUCTURE EXCAVATION	CUYD	1,387
20803-0000	STRUCTURE BACKFILL	CUYD	1,762
55101-0200	CONCRETE FILLED STEEL PIPE PILE, IN PLACE	LNFT	1,320
55104-1000	DYNAMIC PILE LOAD TEST	EACH	4
55115-1000	PREBORING	LNFT	1,280
55201-0200	STRUCTURAL CONCRETE CLASS A (AE)	CUYD	131
55401-2000	REINFORCING STEEL, EPOXY COATED	LB	19,395
56302-1000	PAINTING, CONCRETE STRUCTURE*	SQFT	4,622
58001-0000	ALTERNATE BRIDGE**	LPSM	1
61801-0000	CONCRETE BARRIER	LNFT	192

* BID ITEM IS FOR ANTI-GRAFFITI PROTECTIVE COATING PER CONSTRUCTION NOTE 5 ON SHEET 116.
** ALTERNATE BRIDGE INCLUDES PRECAST ARCH UNITS, PRECAST HEADWALLS, AND PRECAST WINGWALLS.

BRIDGE NUMBER PLATE DETAILS



NOTES:

- TWO (2) PLATES WITH GALVANIZED FLAT HEAD BOLTS IN EXPANSION SHIELDS ARE REQUIRED. THE PLATES SHALL BE GALVANIZED CAST IRON WITH RAISED BLOCK LETTERS OF NEAT SQUARE CUT DESIGN. GRIND FACE OF LETTERS AND BORDERS SMOOTH. BRONZE PLATES AND BOLTS MAY BE SUBSTITUTED FOR GALVANIZED CAST IRON.
- EACH PLATE IS TO BE PLACED AT EACH END OF THE BRIDGE ON THE ROADWAY FACE OF THE CONCRETE BARRIER RAILING AT THE END OF DECK AND LOCATED ON THE RIGHT-HAND SIDE AS ONE APPROACHES BRIDGE.

WHEAT FIELDS LAKES					
WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701	ROUTE N12				
	BRIDGE ESTIMATED QUANTITIES				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	CJC	WCEA NO. 1710009012	DATE	2021
	DRAWN	CJC	PROJECT NO.	SHEET NO.	
	CHECK	DJL	N12(13-2) 1,2,&4	120 OF 120	