

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 - 3	SURVEY CONTROL
4 - 18	TOPOGRAPHIC & SURVEY CONTROL
19	TYPICAL SECTIONS
20	PROJECT CLEARANCE SUMMARY
21 - 22	ROADWAY SUMMARY
23 - 24	PROJECT SHEET KEY
25 - 48	REMOVAL PLANS & PROJECT ALIGNMENT
49 - 72	PLAN AND UTILITY SHEETS
73	DETAILS
74 - 76	SIGNING ERECTION SPECIFICATIONS
77 - 100	SIGNING PLAN
101	TRAFFIC CONTROL PLAN
1 - 10	ITD STANDARD DRAWINGS

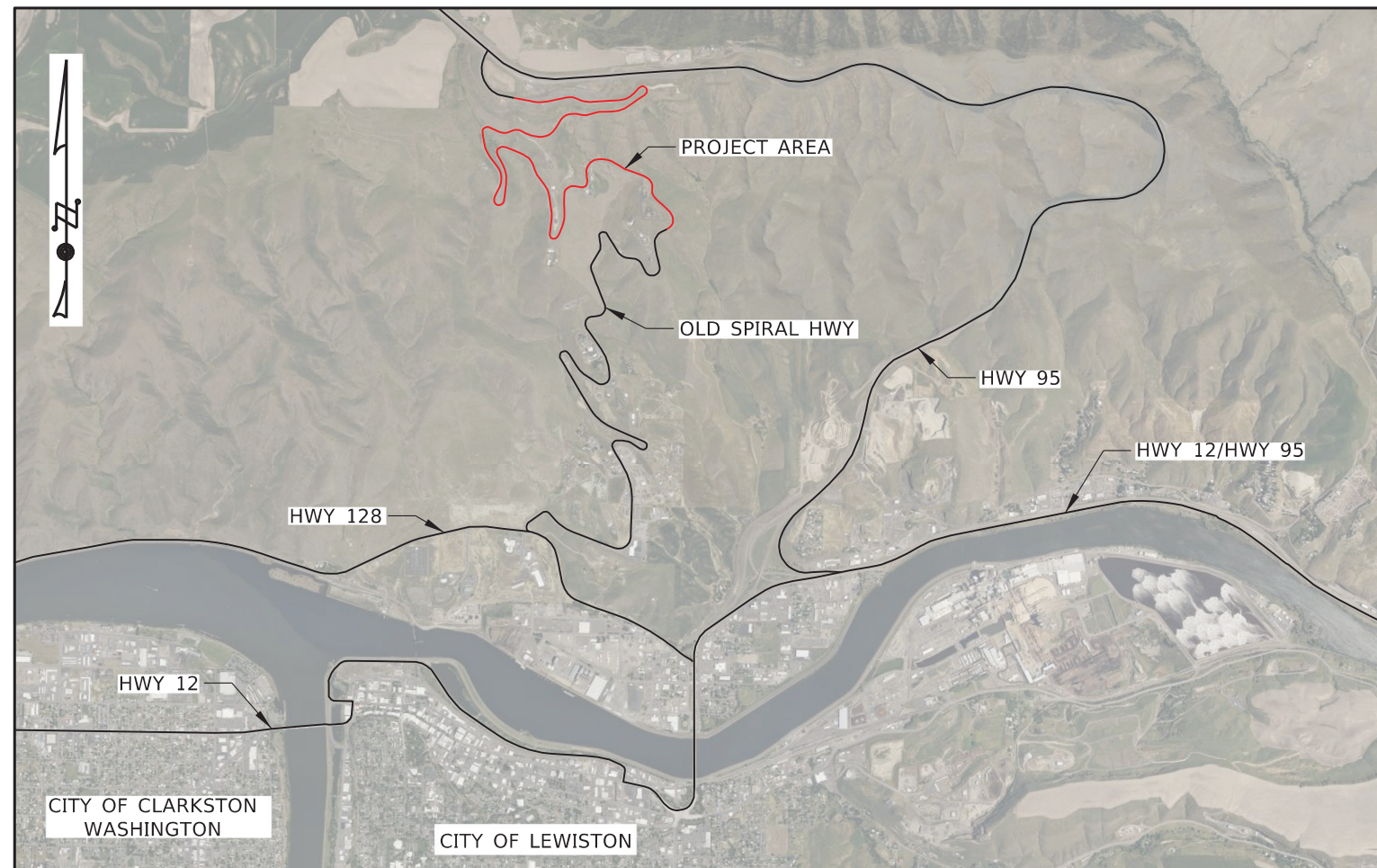
# IDAHO TRANSPORTATION DEPARTMENT

## PLAN AND PROFILE OF PROPOSED OLD SPIRAL HIGHWAY GUARDRAIL, PH 1 FEDERAL AID PROJECT NO. A024(342) KEY NO. 24342 NEZ PERCE COUNTY

APRIL 2026



A024(342)  
OLD SPIRAL HWY  
GUARDRAIL, PH 1  
NEZ PERCE COUNTY  
3.6 MILES



**DESIGN DESIGNATION**

ADT 2023	180
ADT 2043	220
DHV 2023	22
DHV 2043	27
D	
V	35 MPH
TRUCKS	5%
ADT 2023	9
ADT 2043	11
DHV 2023	1
DHV 2043	1

REVISIONS			
NO.	DATE	BY	DESCRIPTION

THE DIMENSIONS SHOWN ON THE PLANS SHALL BE ATTAINED WITHIN LIMITS OF PRECISION THAT GOOD CONSTRUCTION PRACTICES WILL PERMIT

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
CADD FILE NAME 24342\_TITL\_000.DGN  
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION DEPARTMENT**

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**J-U-B ENGINEERS, INC.**

PROJECT NO.  
A024(342)

TITLE SHEET  
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO

**ENGLISH**  
COUNTY NEZ PERCE  
KEY NUMBER 24342  
SHEET 1 OF 101

*Jana Kral*  
Approved for Advertising  
**04/10/2026**  
Date Approved

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO

METHOD OF SURVEY

THE PROJECT CONTROL WAS ESTABLISHED USING RTK GPS (TRIMBLE R10) INSTRUMENTS. PRIMARY CONTROL POINTS 1-12 WERE ESTABLISHED USING RTK METHODS WITH REDUNDANT TIES. ALL SECONDARY CONTROL POINTS AND MONUMENT TIES WERE ESTABLISHED USING RTK METHODS.

BASIS OF BEARINGS

ESTABLISHED BY GPS OBSERVATIONS NAD 83 (2011) MODIFIED IDAHO STATE PLANE COORDINATE SYSTEM (WEST ZONE 1103) (EPOCH:2010.0000). BEARINGS SHOWN ARE AT GRID

LOCAL GROUND CONSTANTS

A RECIPROCAL COMBINATION SCALE FACTOR OF 1.0000746738 WAS APPLIED AT LATITDUE N46°27'37.15146" AND LONGITUDE W117°00'52.33068"(N: 1749934.74 AND E: 2305990.10) TO CREATE A LOCAL GROUND COORDINATE SYSTEM.

TO CALCULATE GRID COORDINATES, SCALE PROJECT COORDINATES BY THE COMMBINED SCALE FACTOR OF 0.999925332 ABOUT LATITDUE N46°27'37.15146"AND LONGITUDE W117°00'52.33068"(N: 1749934.74 AND E: 2305990.10).

THE CONVERGENCE ANGLE AT LATITDUE N46°27'37.15146" AND LONGITUDE W117°00'52.33068" (N: 1749934.74 AND E: 2305990.10) = -00°55'00.23"

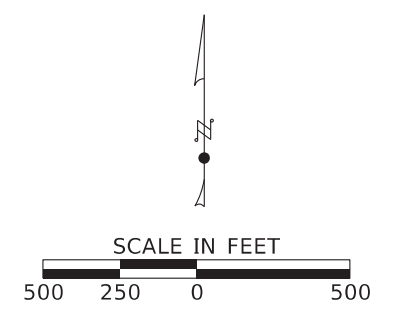
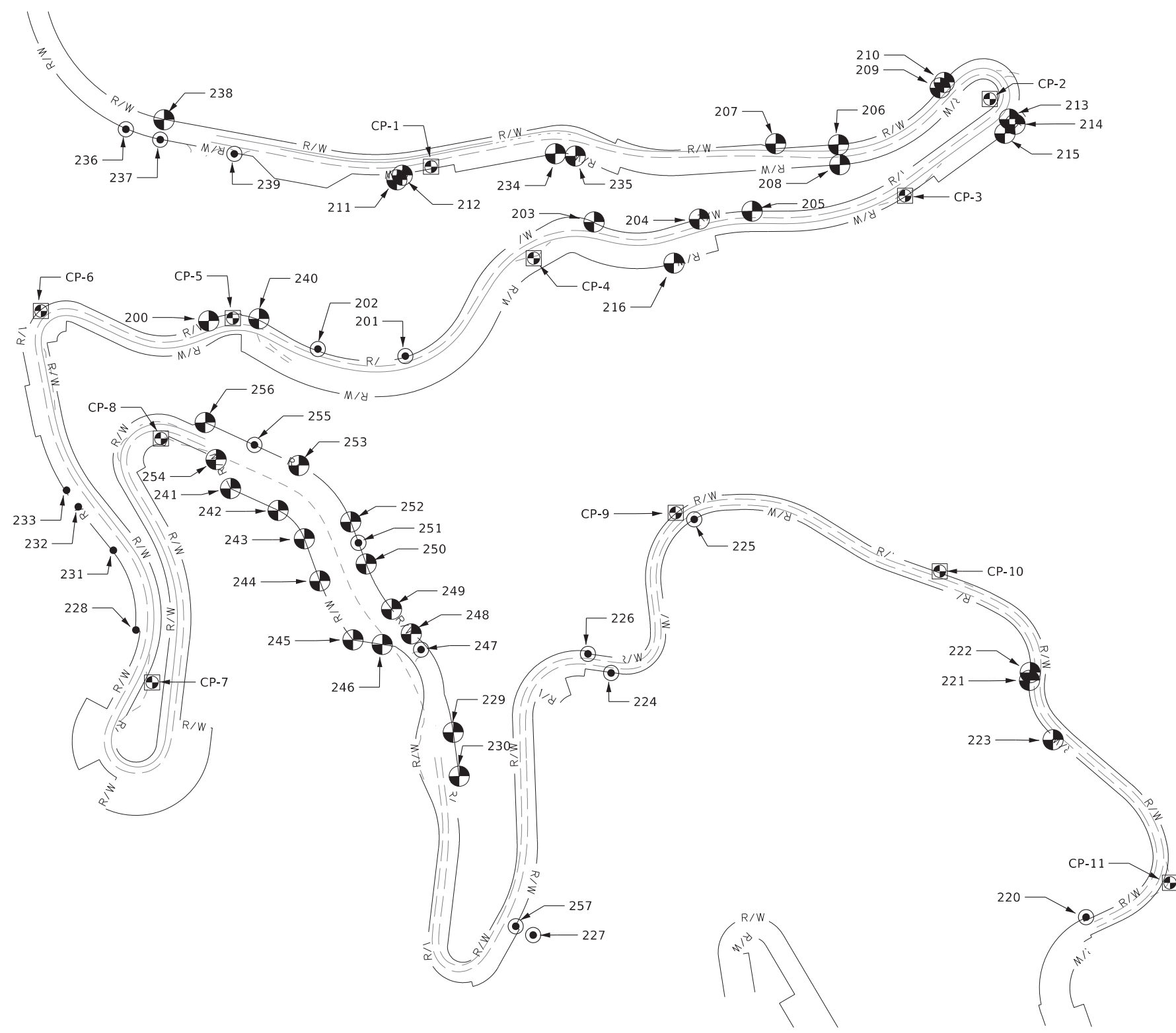
VERTICAL DATUM = NAVD88' (GEOID 18)

FOUND MONUMENTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	1749328.77	2305112.15	2326.05	BRC 3.5" IN CONC PUB WORKS
201	1749188.29	2305887.08	2344.00	5/8' REBAR PLS 7379
202	1749216.94	2305542.16	2328.85	5/8' REBAR PLS 7379
203	1749715.24	2306632.29	2399.48	BRC 3.5" IN CONC PUB WORKS
204	1749725.87	2307047.39	2418.32	BRC 3.5" IN CONC PUB WORKS
205	1749756.41	2307255.49	2427.53	BRC 3.5" IN CONC PUB WORKS
206	1750017.64	2307596.58	2519.87	BRC 3.5" IN CONC PUB WORKS
207	1750022.35	2307349.02	2547.30	ALC 2" PLS 17534
208	1749938.64	2307601.57	2502.72	BRC 3.5" IN CONC PUB WORKS
209	1750240.90	2307998.06	2509.70	BRC 3.5" IN CONC PUB WORKS
210	1750262.38	2308013.82	2509.03	BRC 3.5" IN CONC PUB WORKS
211	1749883.17	2305855.26	2600.00	BRC 3.5" IN CONC PUB WORKS
212	1749901.25	2305876.96	2600.01	BRC 3.5" IN CONC PUB WORKS
213	1750117.14	2308270.67	2459.13	BRC 3.5" IN CONC PUB WORKS
214	1750096.73	2308292.92	2448.73	BRC 3.5" IN CONC PUB WORKS
215	1750060.75	2308252.81	2446.13	BRC 3.5" IN CONC PUB WORKS
216	1749552.09	2306946.71	2343.96	BRC 3.5" IN CONC PUB WORKS
220	1746969.24	2308565.30	1809.03	5/8" REBAR LS 912 TAG
221	1747903.28	2308344.54	1870.69	BRC 3.5" IN CONC PUB WORKS
222	1747934.34	2308347.13	1871.94	BRC 3.5" IN CONC PUB WORKS
223	1747668.91	2308436.80	1868.48	BRC 3.5" IN CONC PUB WORKS
224	1747936.65	2306695.31	1959.75	5/8" REBAR
225	1748541.66	2307024.31	1925.93	5/8" REBAR
226	1748012.20	2306604.08	1985.84	5/8" REBAR
227	1746903.78	2306385.33	1972.55	5/8" REBAR LS 912 TAG
228	1748110.58	2304822.46	2259.02	1/2" REBAR LS 849
229	1747704.22	2306072.41	2101.11	BRC 3.5" IN CONC PUB WORKS
230	1747531.11	2306095.60	2105.90	BRC 3.5" IN CONC PUB WORKS
231	1748425.20	2304734.19	2266.30	1/2" REBAR LS 849
232	1748597.13	2304596.33	2272.20	1/2" REBAR LS 849
233	1748662.38	2304550.20	2274.10	1/2" REBAR LS 849
234	1749984.80	2306480.25	2531.03	BRC 3.5" IN CONC PUB WORKS
235	1749975.67	2306558.99	2521.94	BRC 3.5" IN CONC PUB WORKS
236	1750085.36	2304787.51	2648.29	5/8" REBAR
237	1750044.01	2304922.63	2643.20	DRILL STEEL 1"
238	1750122.56	2304937.93	2649.70	BRC 3.5" IN CONC PUB WORKS
239	1749987.28	2305214.77	2622.97	5/8" REBAR
240	1749336.54	2305310.28	2322.14	BRC 3.5" IN CONC PUB WORKS
241	1748667.82	2305196.78	2054.87	BRC 3.5" IN CONC PUB WORKS
242	1748580.85	2305383.95	2061.11	BRC 3.5" IN CONC PUB WORKS
243	1748468.75	2305487.07	2053.45	BRC 3.5" IN CONC PUB WORKS
244	1748302.45	2305547.58	2036.35	BRC 3.5" IN CONC PUB WORKS
245	1748069.92	2305678.03	2031.93	BRC 3.5" IN CONC PUB WORKS
246	1748051.17	2305793.27	2065.87	BRC 3.5" IN CONC PUB WORKS
247	1748030.56	2305946.27	2086.62	5/8" REBAR LS 912 TAG
248	1748092.61	2305907.62	2100.05	BRC 3.5" IN CONC PUB WORKS
249	1748190.43	2305830.44	2117.74	BRC 3.5" IN CONC PUB WORKS
250	1748369.09	2305730.60	2125.80	BRC 3.5" IN CONC PUB WORKS
251	1748452.39	2305700.33	2124.55	5/8" REBAR LS 912 TAG
252	1748535.06	2305670.01	2128.59	BRC 3.5" IN CONC PUB WORKS
253	1748757.89	2305466.03	2134.04	BRC 3.5" IN CONC PUB WORKS
254	1748782.09	2305139.75	2101.31	BRC 3.5" IN CONC PUB WORKS
255	1748839.33	2305291.23	2137.61	5/8" REBAR LS 912 TAG
256	1748928.11	2305097.33	2144.76	BRC 3.5" IN CONC PUB WORKS
257	1746938.64	2306316.70	2003.93	5/8" REBAR LS 912 TAG

SURVEY CONTROL				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1749934.74	2305990.10	2594.03	PK MAG NAIL WASHER
2	1750196.49	2308193.42	2468.43	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
3	1749815.75	2307858.46	2441.82	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
4	1749572.84	2306394.01	2362.52	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
5	1749339.57	2305207.19	2294.17	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
6	1749369.76	2304450.51	2255.40	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
7	1747903.62	2304885.70	2213.82	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
8	1748865.65	2304922.64	2113.58	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
9	1748567.58	2306951.37	1939.89	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
10	1748334.44	2307991.67	1887.61	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
11	1747104.07	2308896.34	1805.51	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL
12	1746274.16	2307648.65	1683.35	5/8" REBAR, RED PLASTIC CAP, JUB CONTROL

<b>REVISIONS</b> NO. DATE BY DESCRIPTION				DESIGNED JJS DESIGN CHECKED GJR DETAILED JJS DRAWING CHECKED GJR	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 24342_SURV_000.DGN DRAWING DATE: OCTOBER 2024	IDAHO <b>TRANSPORTATION                  DEPARTMENT</b> YOUR Safety→YOUR Mobility→YOUR Economic Opportunity <b>J-U-B ENGINEERS, INC.</b>	PROJECT NO.  A024(342)	SURVEY CONTROL OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO	ENGLISH COUNTY NEZ PERCE KEY NUMBER 24342 SHEET 2 OF 101	
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SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO  
 OLD SPIRAL HIGHWAY



- LEGEND
- ☒ SURVEY CONTROL
  - BRASS CAP OR ALUMINUM CAP
  - ⊙ 5/8" REBAR
  - 1/2" REBAR

REVISIONS			
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GJR

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**DEPARTMENT**

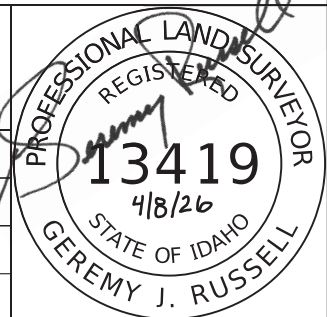
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**J-U-B ENGINEERS, INC.**

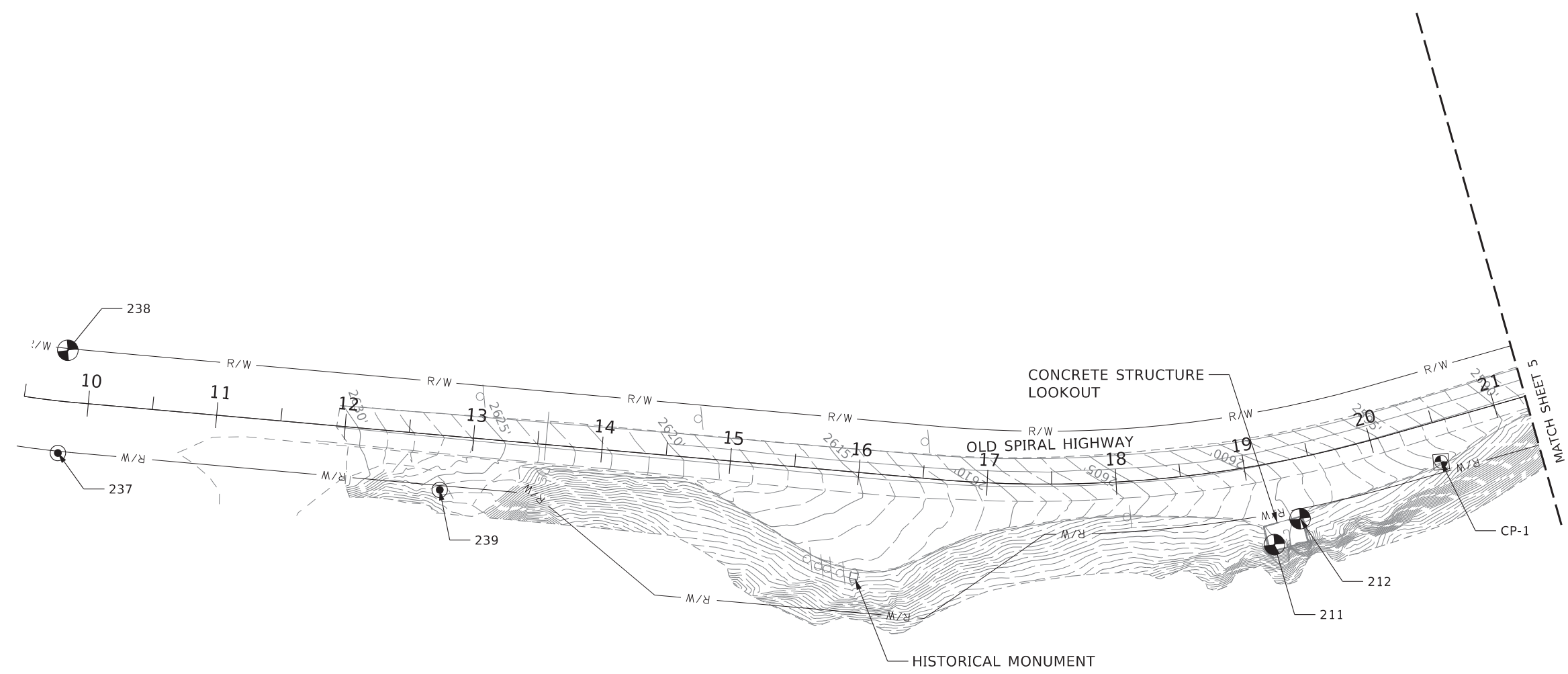
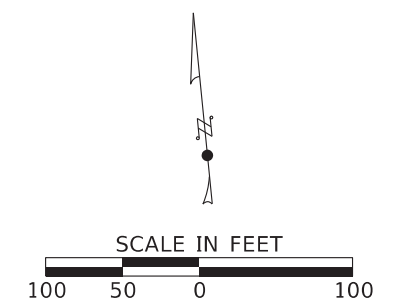
PROJECT NO.  
  
 A024(342)

SURVEY CONTROL  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
 COUNTY  
NEZ PERCE  
 KEY NUMBER  
24342  
 SHEET 3 OF 101



SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



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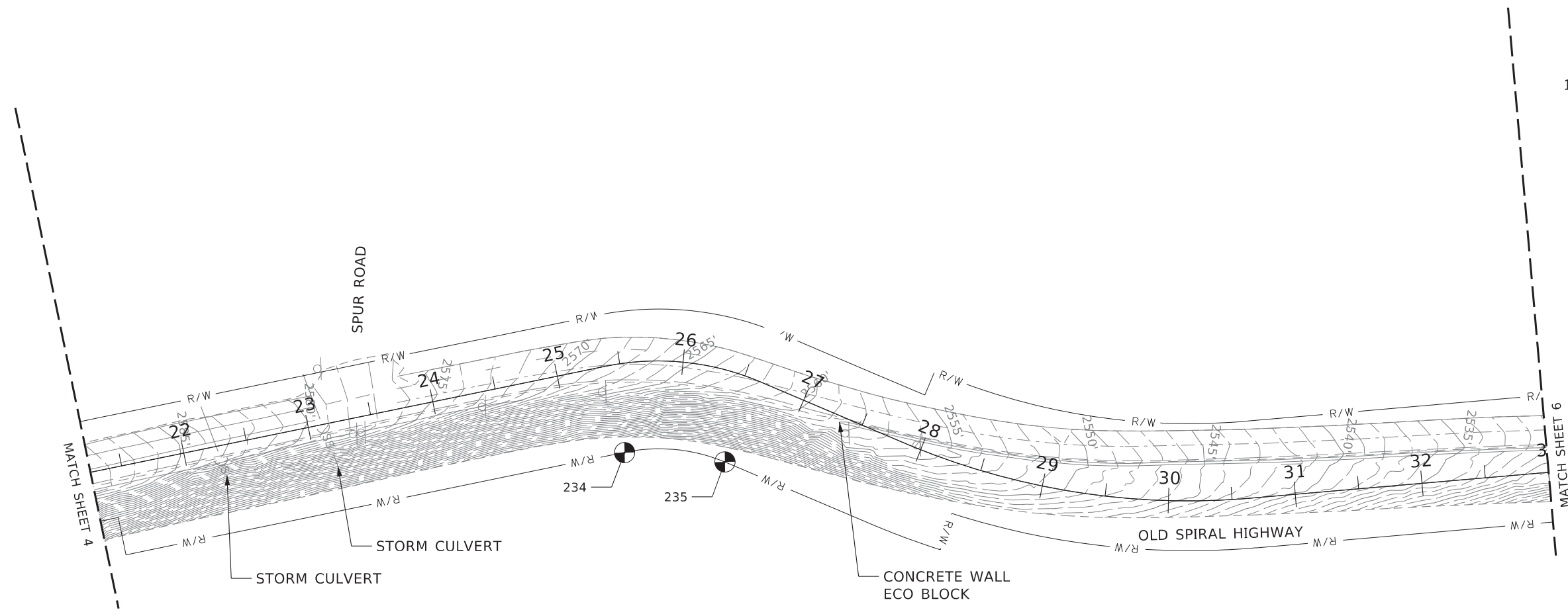
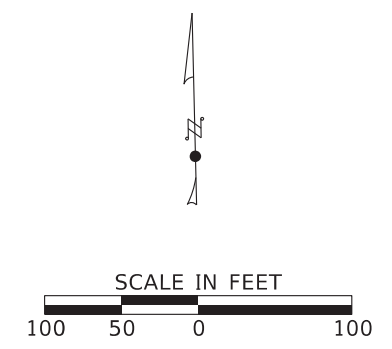


PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 4 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

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JJS  
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SCALES SHOWN  
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DRAWING DATE:  
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**J-U-B ENGINEERS, INC.**

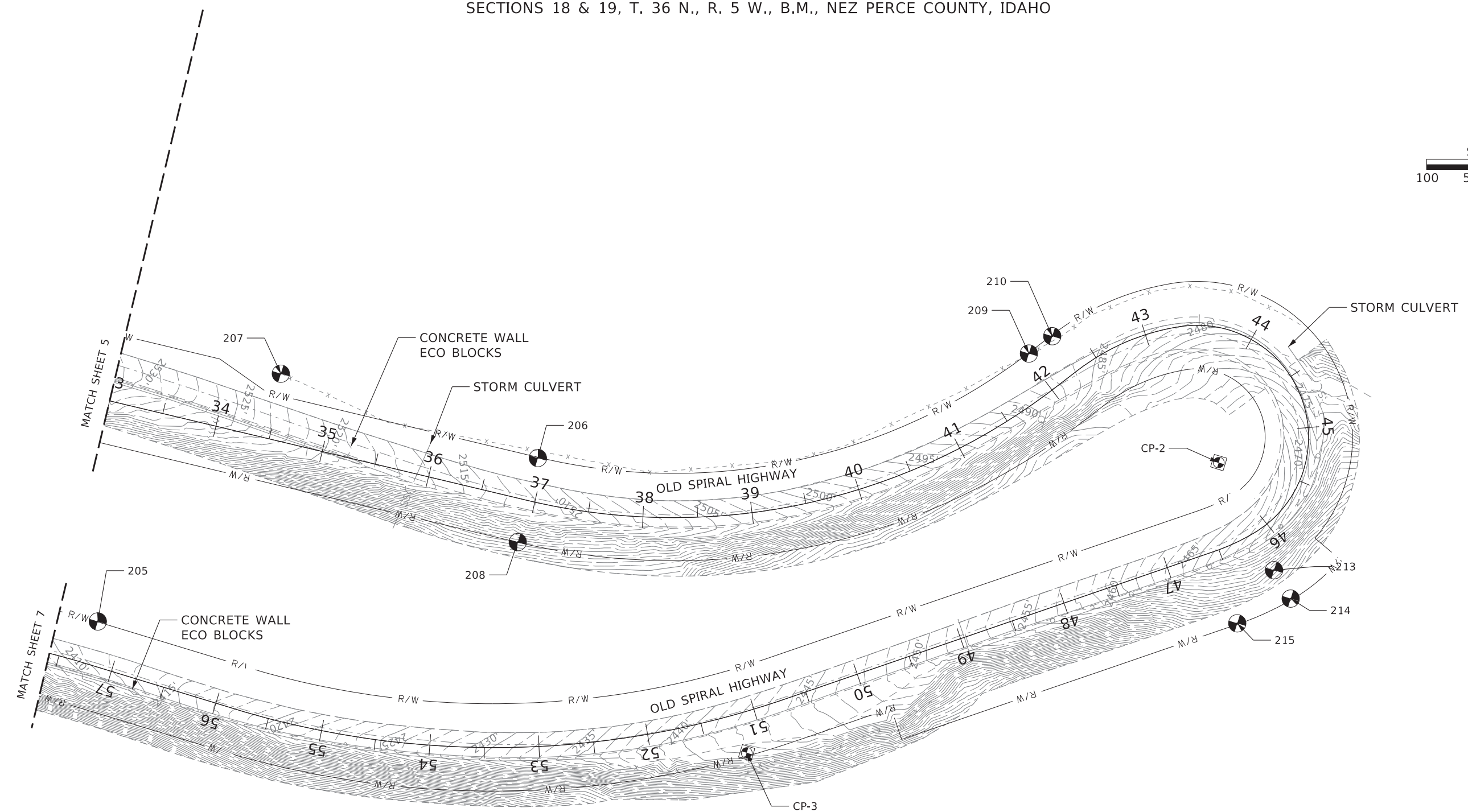
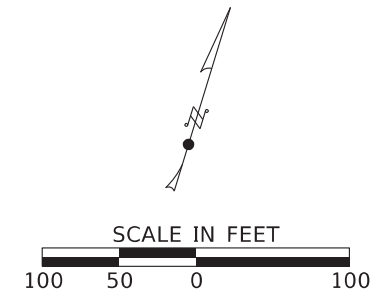


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 5 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
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GJR

SCALES SHOWN  
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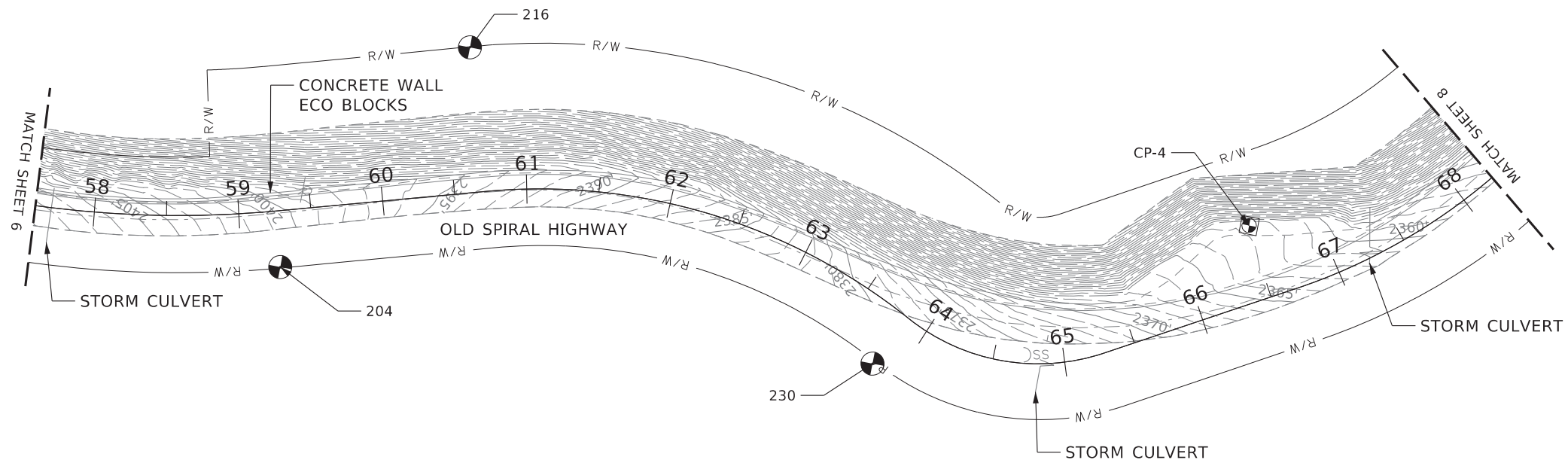
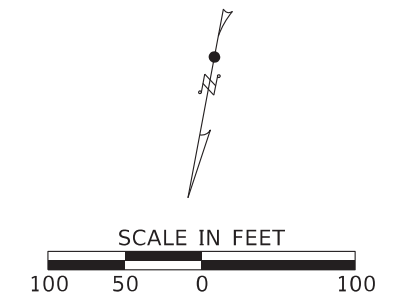


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 6 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
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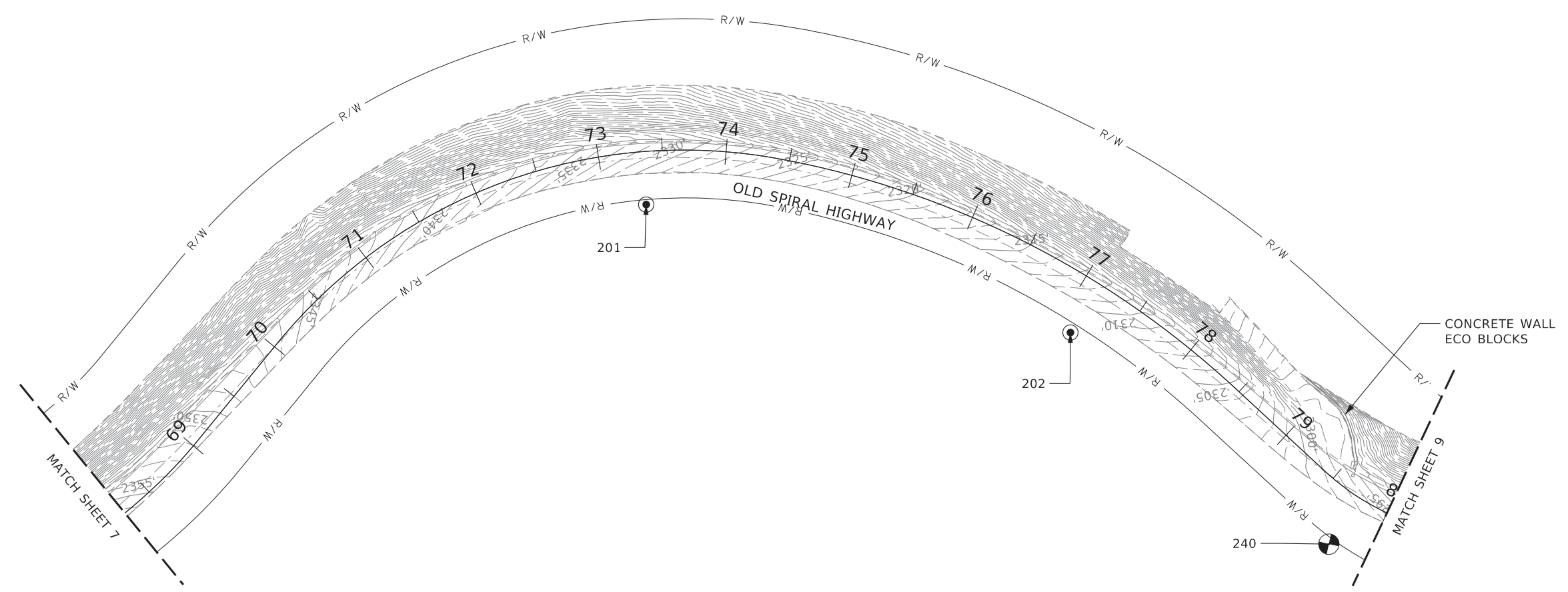
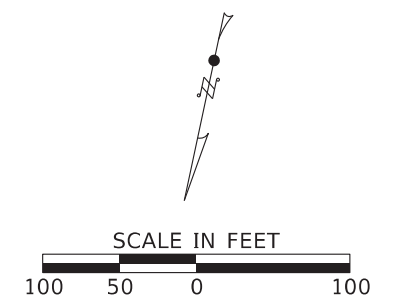
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 7 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
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SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
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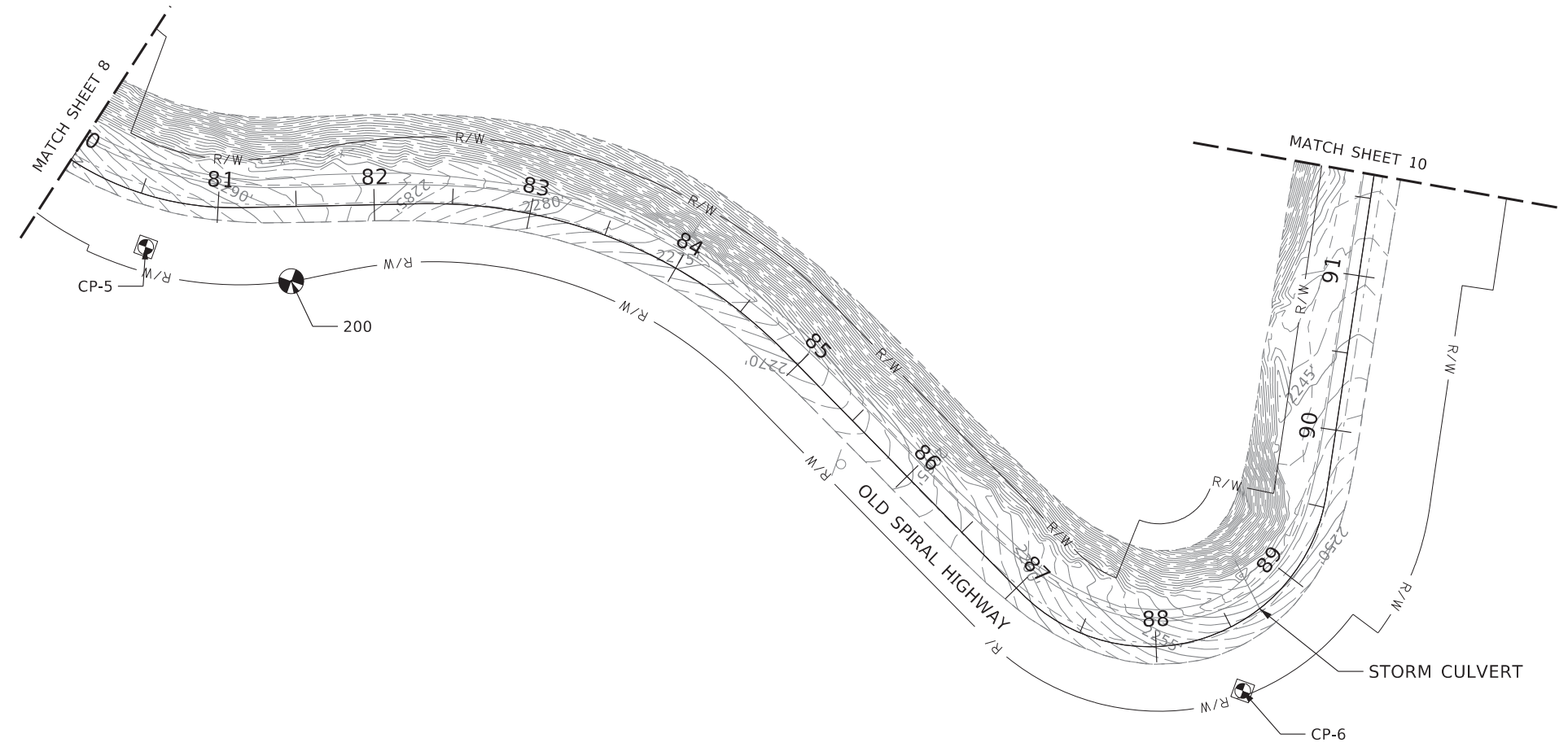
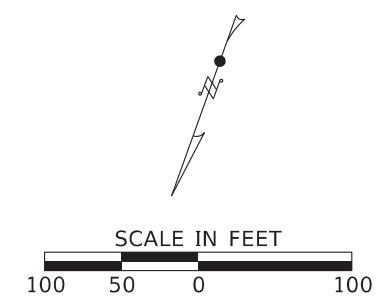


PROJECT NO.
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL
OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 8 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
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24342\_SURV\_007.dgn  
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DEPARTMENT**

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**J-U-B ENGINEERS, INC.**

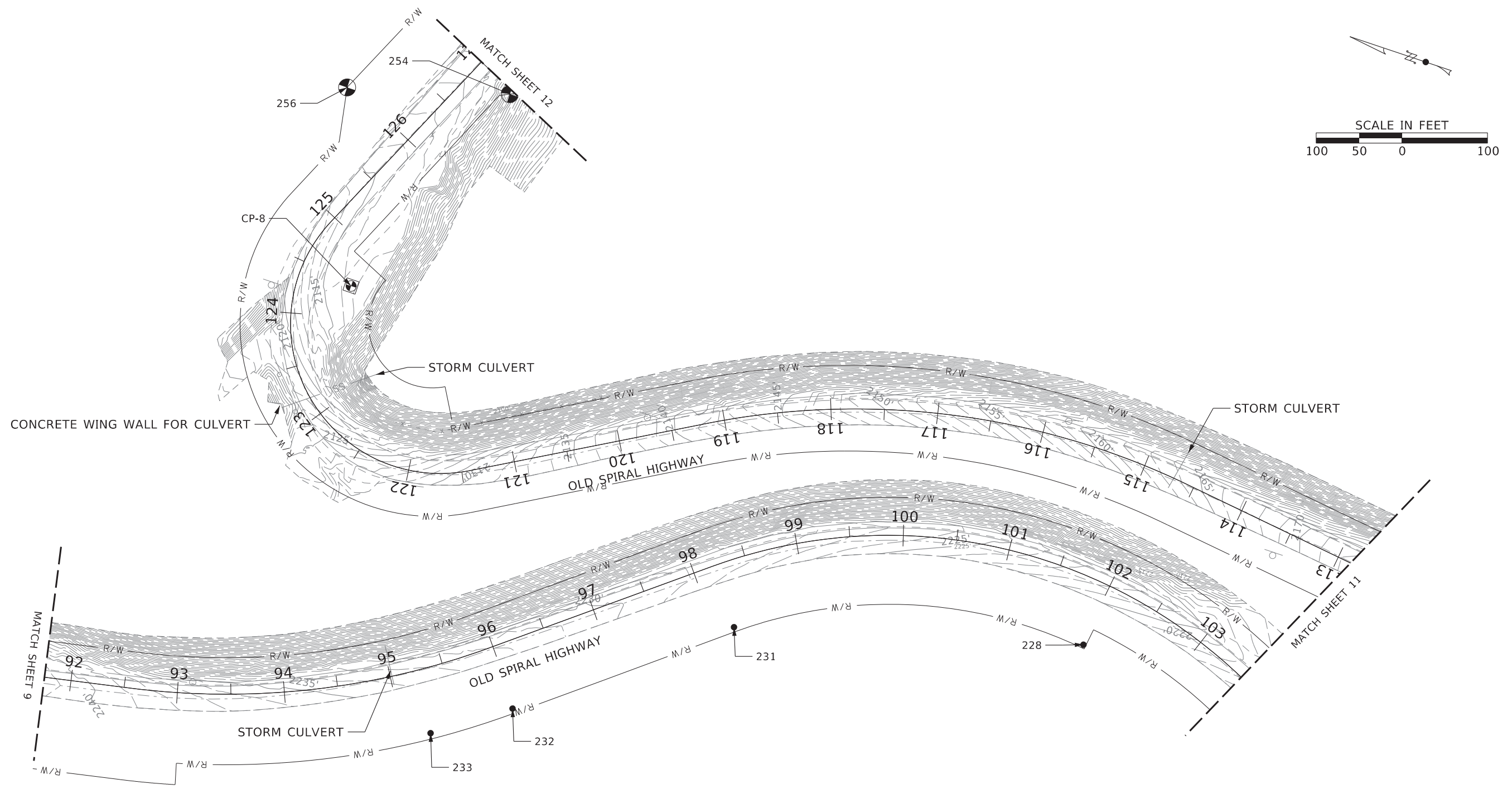


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 9 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED JJS
DESIGN CHECKED GJR
DETAILED JJS
DRAWING CHECKED GJR

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DRAWING DATE: OCTOBER 2024

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TRANSPORTATION  
DEPARTMENT**

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**J-U-B ENGINEERS, INC.**



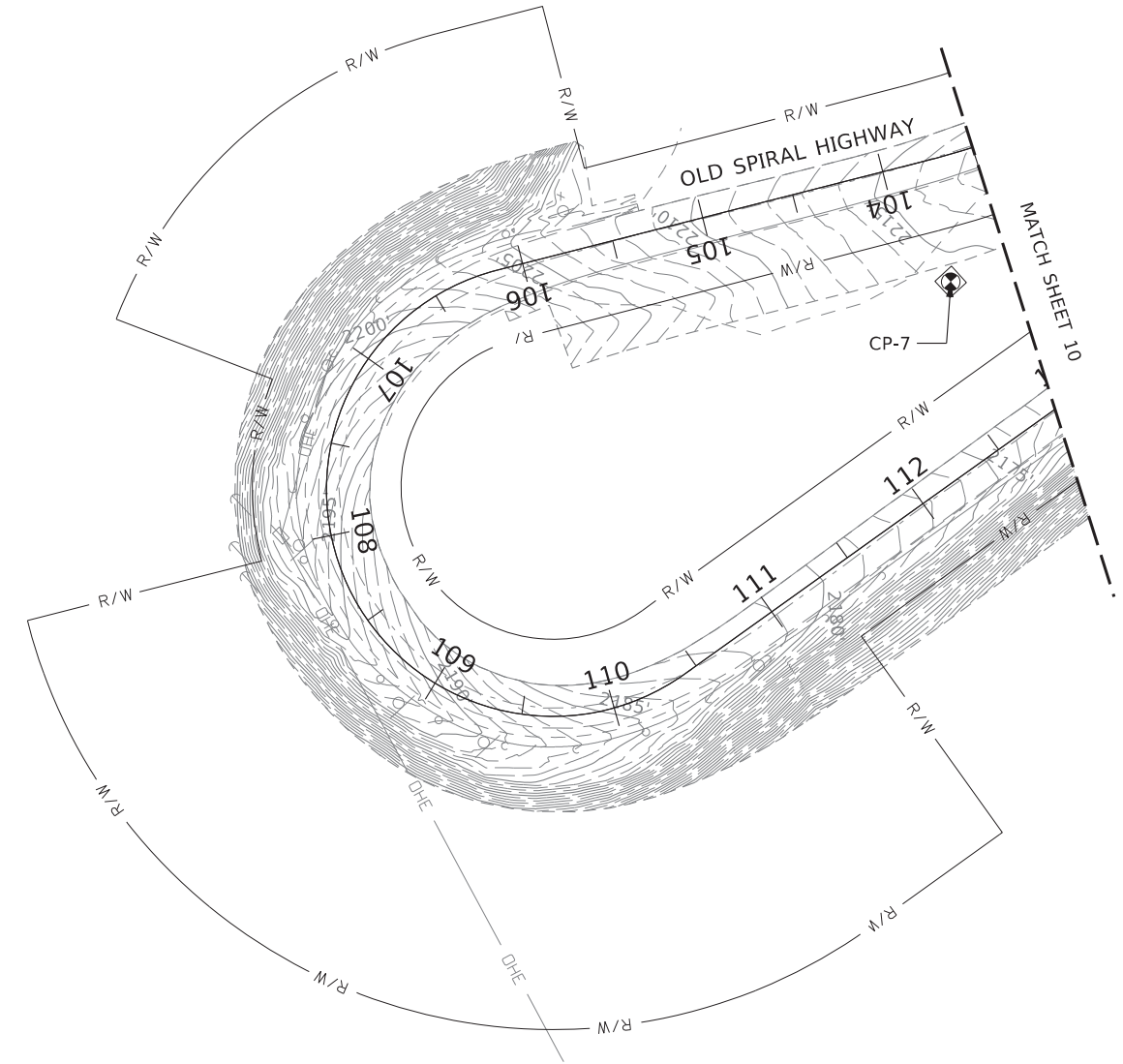
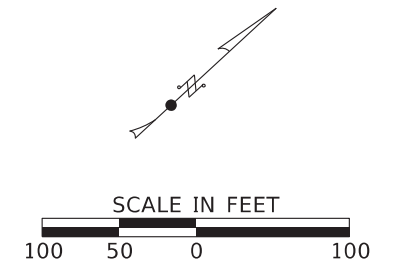
PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
---

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 10 OF 101

PROFESSIONAL LAND SURVEYOR  
REGISTERED  
**13419**  
4/8/26  
STATE OF IDAHO  
GEREMY J. RUSSELL

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

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JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
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24342\_SURV\_009.dgn  
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OCTOBER 2024

**IDAHO  
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DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

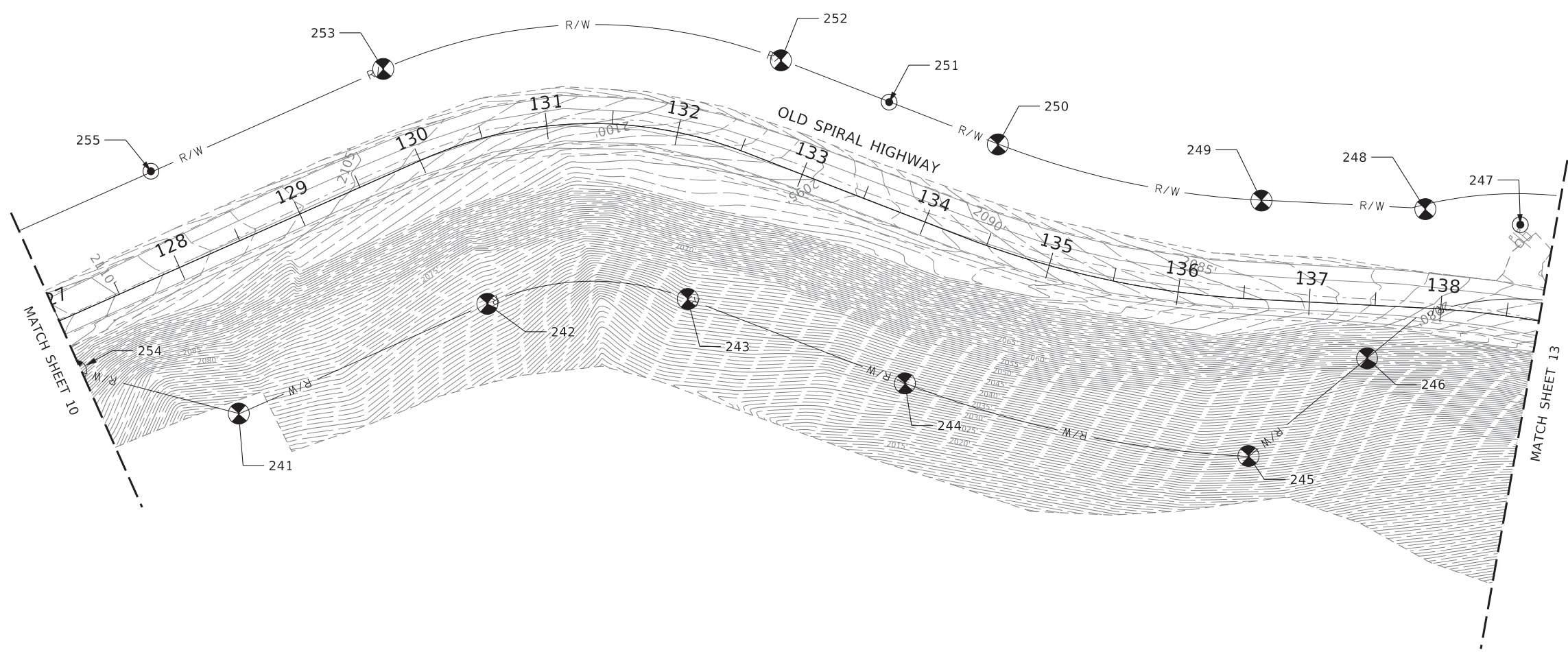
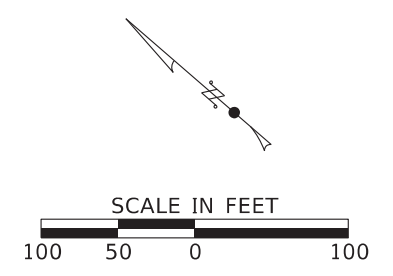


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 11 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_SURV\_010.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

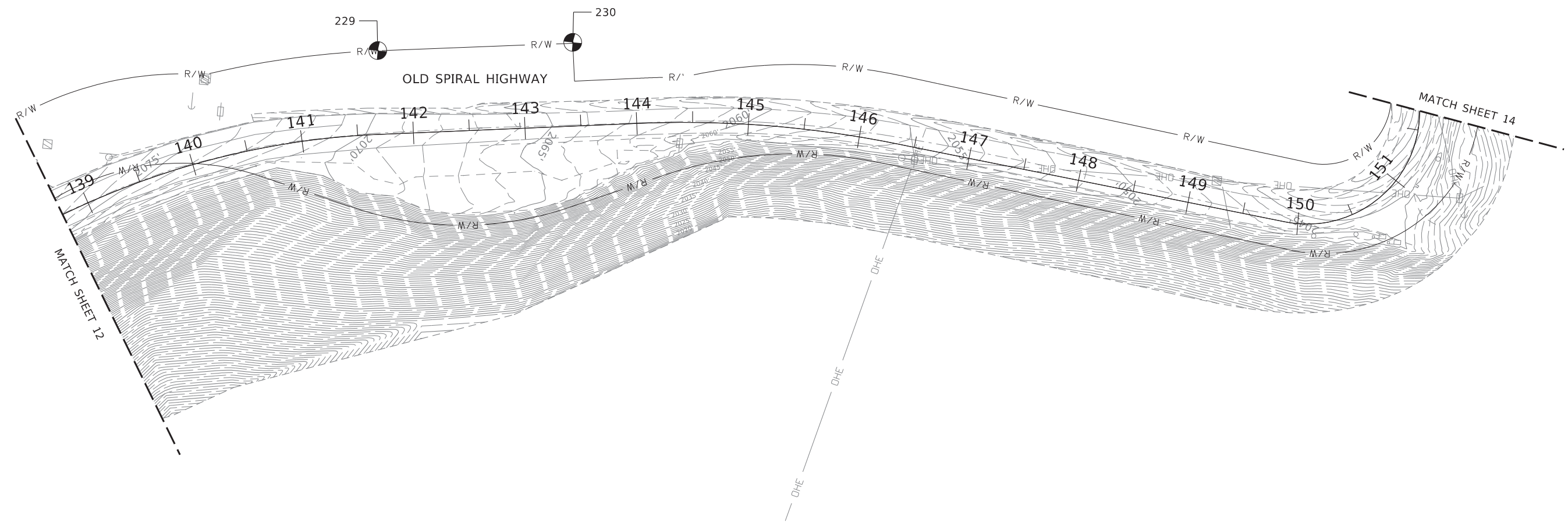
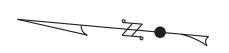


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 12 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_SURV\_011.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
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YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

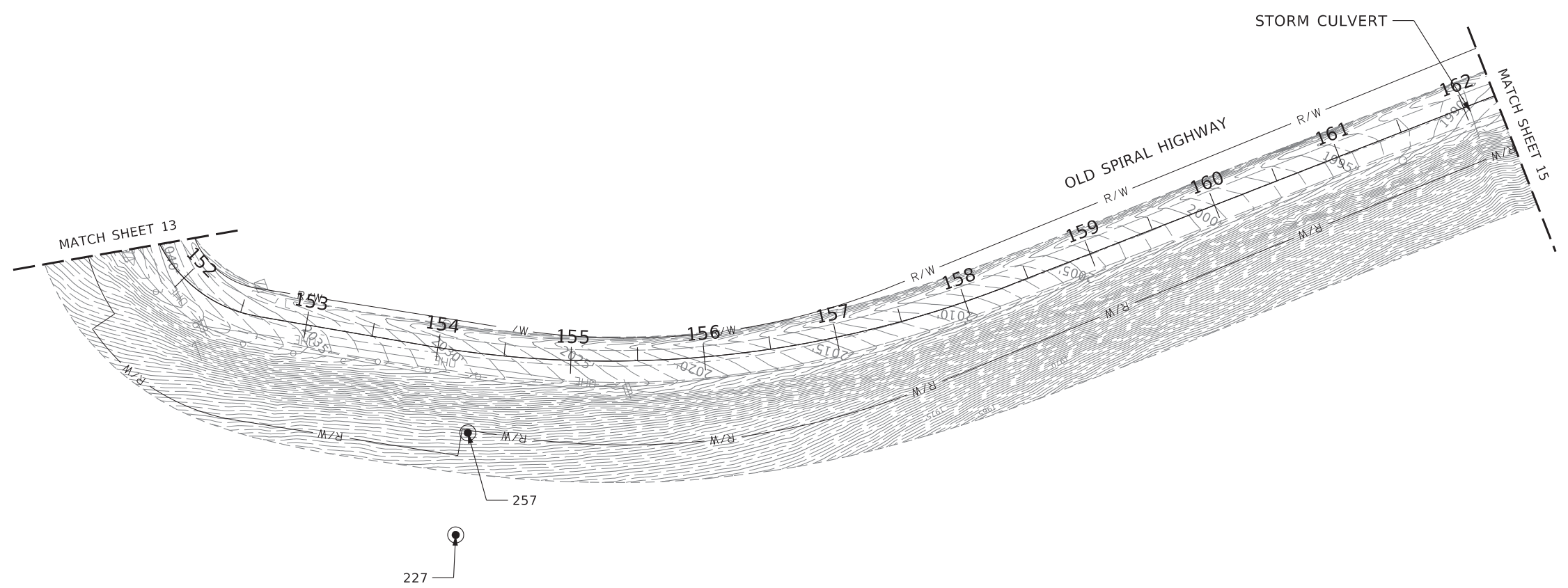
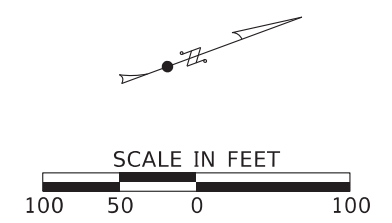


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 13 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_SURV\_012.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

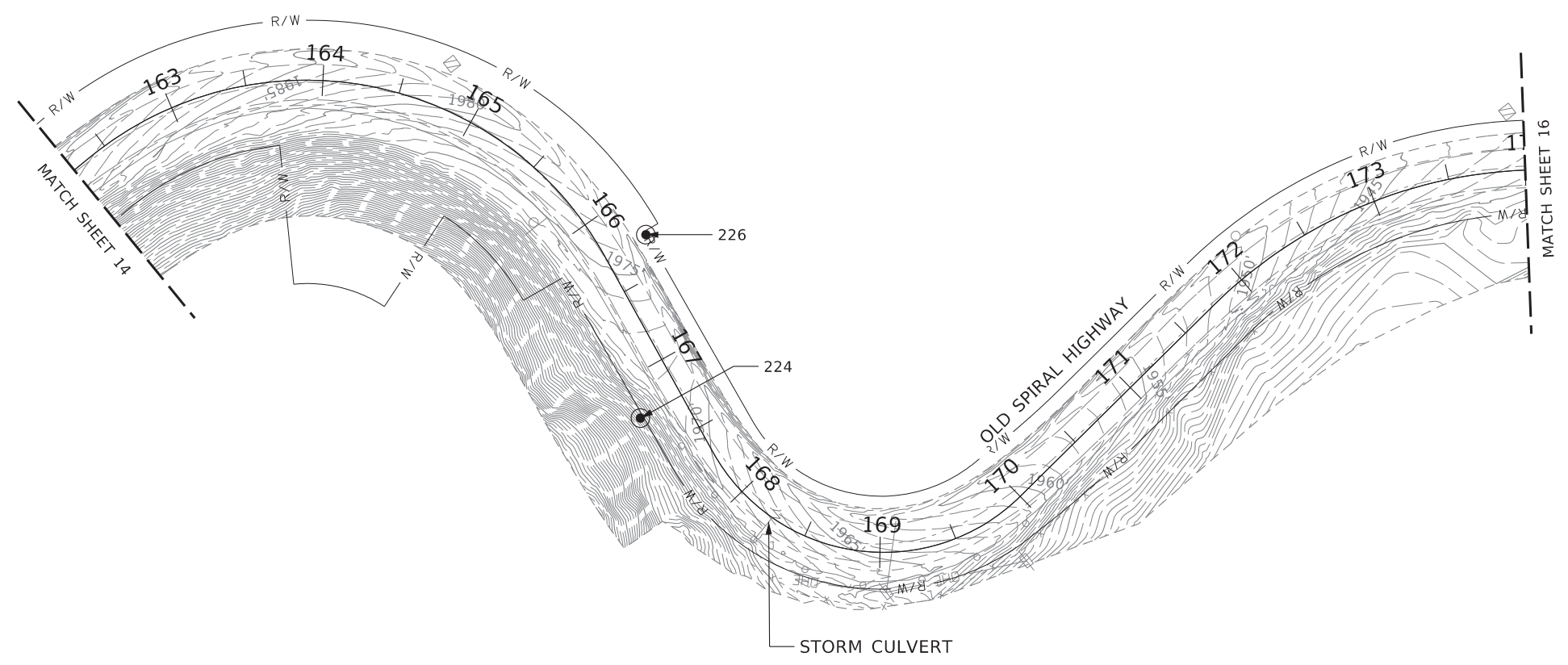
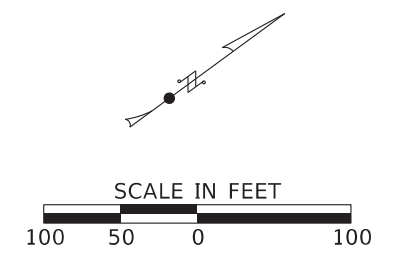


PROJECT NO.  
  
A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 14 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



4342\_SURV\_013  
1"=100'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED JJS
DESIGN CHECKED GJR
DETAILED JJS
DRAWING CHECKED GJR

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SURV_013.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
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DEPARTMENT**

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**J-U-B ENGINEERS, INC.**

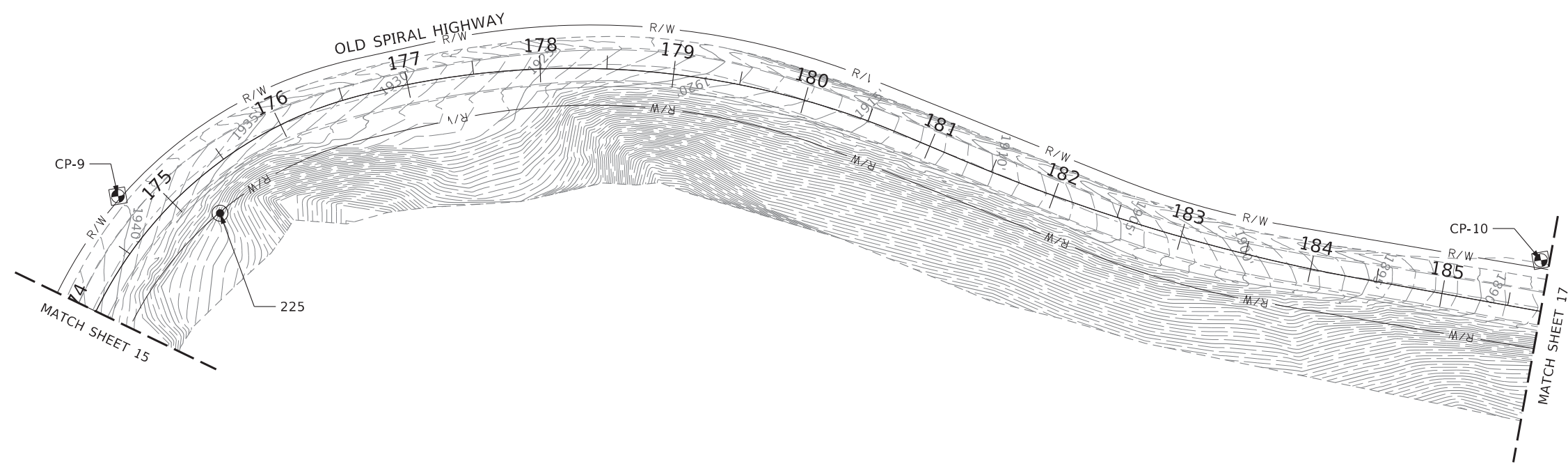
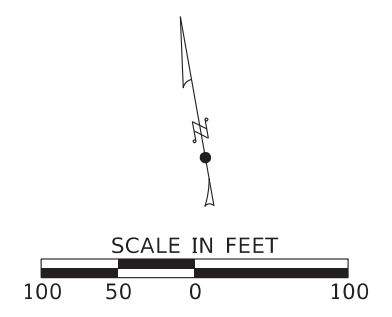


PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 15 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED JJS
DESIGN CHECKED GJR
DETAILED JJS
DRAWING CHECKED GJR

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SURV_014.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

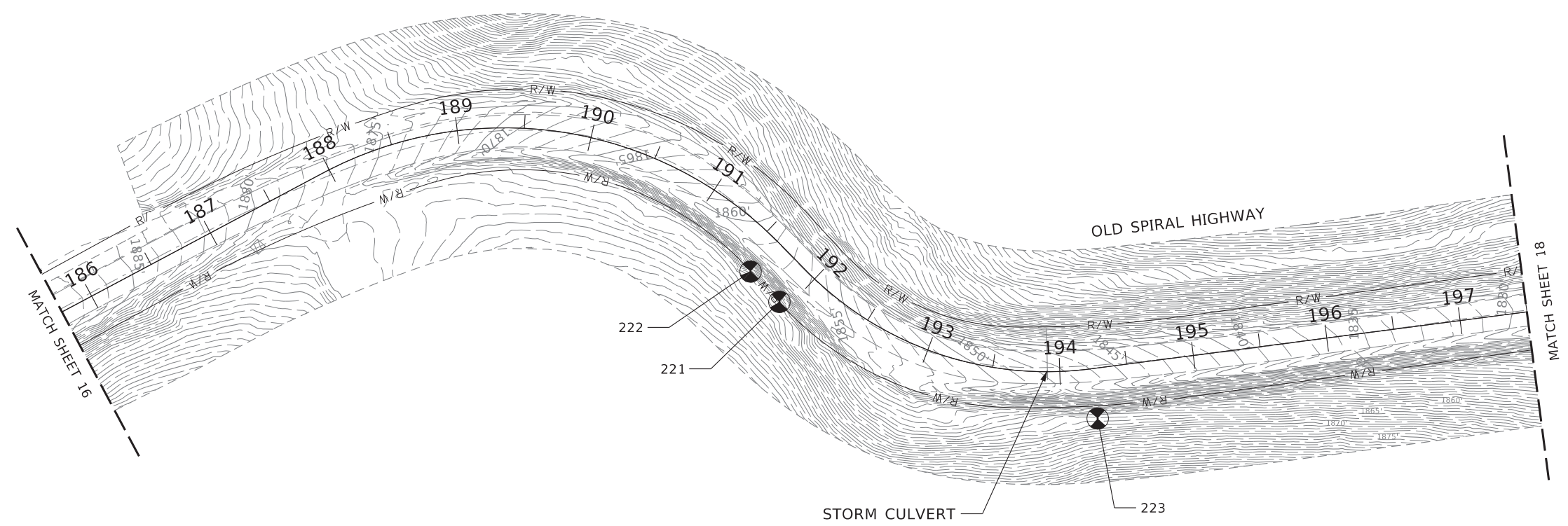
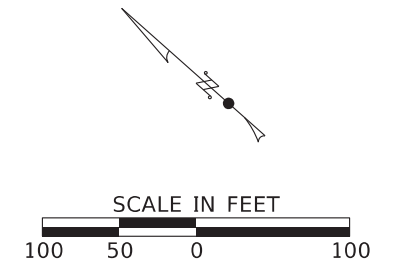


PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 16 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED JJS
DESIGN CHECKED GJR
DETAILED JJS
DRAWING CHECKED GJR

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SURV_015.dgn
DRAWING DATE: OCTOBER 2024

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DEPARTMENT**

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**J-U-B ENGINEERS, INC.**

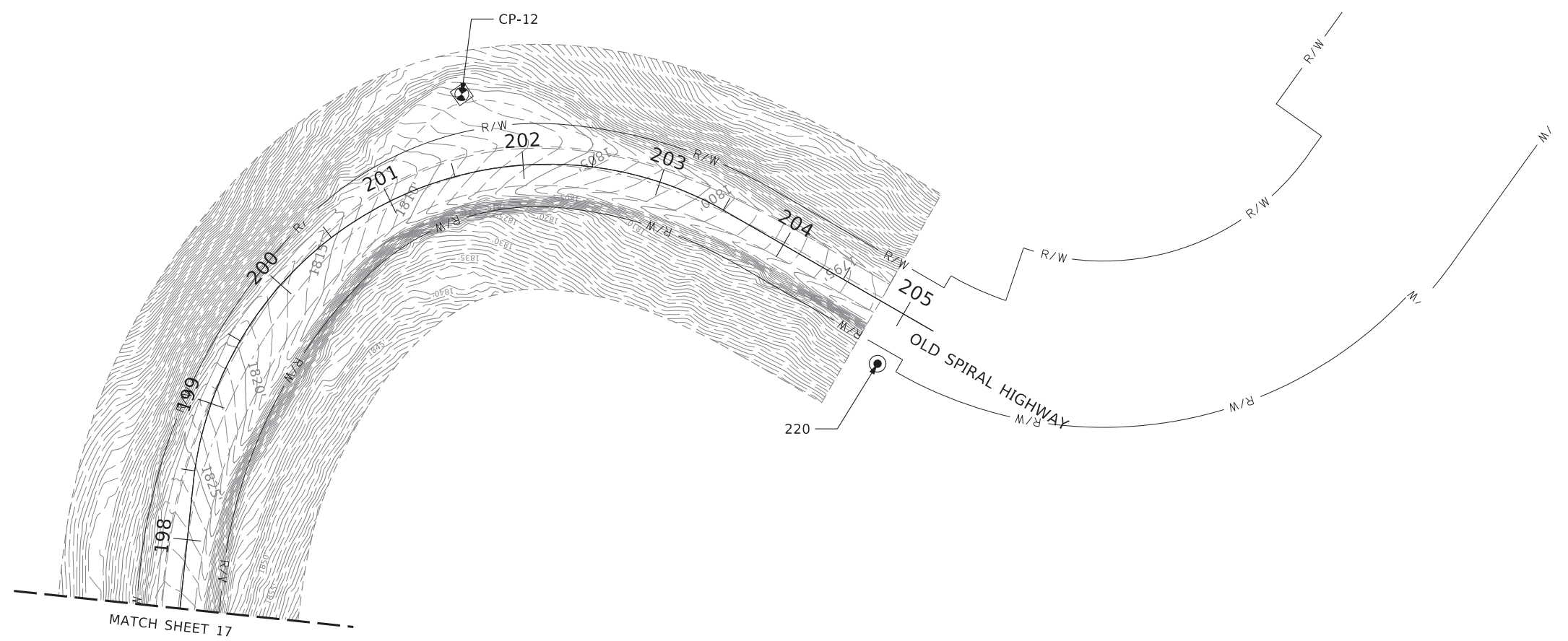
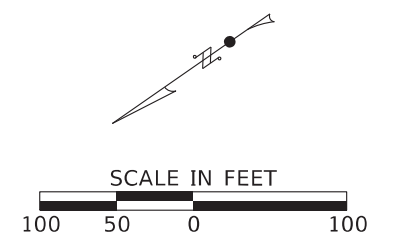


PROJECT NO.  A024(342)
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TOPOGRAPHIC AND SURVEY CONTROL  OLD SPIRAL HWY GUARDRAIL, PH 1 GUARDRAIL IMPRV, NEZ PERCE CO
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 17 OF 101

SECTIONS 18 & 19, T. 36 N., R. 5 W., B.M., NEZ PERCE COUNTY, IDAHO



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
JJS  
DESIGN CHECKED  
GJR  
DETAILED  
JJS  
DRAWING CHECKED  
GJR

SCALES SHOWN  
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PRINTS ONLY  
CADD FILE NAME  
24342\_SURV\_016.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



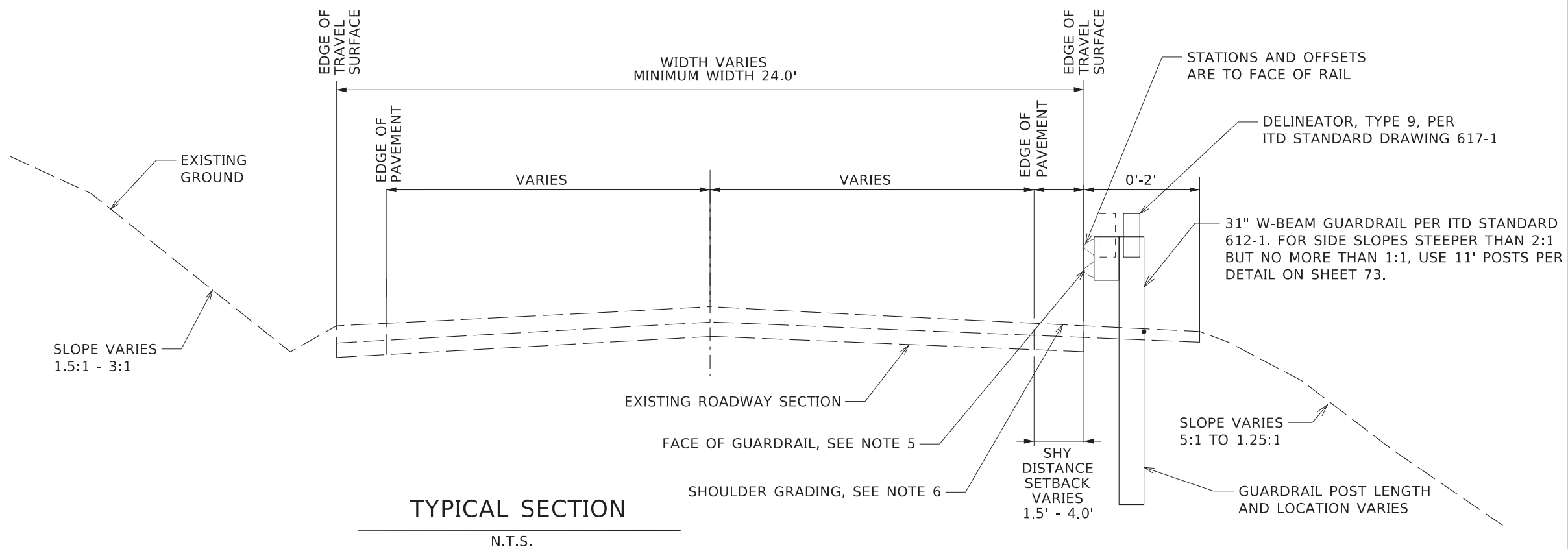
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A024(342)

TOPOGRAPHIC AND SURVEY CONTROL  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 18 OF 101

**NOTE:**

1. THE GUARDRAIL POSTS SHALL BE PLUMBED AND SET VERTICALLY. REFER TO SECTION 612-GUARDRAIL, OF THE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. GUARDRAIL POST SPACING SHALL BE 6'-3" C.T.C. UNLESS OTHERWISE SHOWN.
3. RETAIN AND PROTECT ALL UNDERGROUND UTILITIES.
4. USE WIDE-FLANGE POSTS ONLY.
5. PLAN CALL OUTS ARE TO FACE OF GUARDRAIL.
6. GRADE SHOULDER FROM EDGE OF TRAVEL WAY TO FACE OF GUARDRAIL AT 10:1 OR FLATTER. NATIVE MATERIAL SHALL BE USED PRIOR TO IMPORTED MATERIAL.
7. INSTALL DELINEATORS, TYPE 9, AS SHOWN ON THE PLANS AND ITD STANDARD DRAWING 617-1.
8. ENGINEER SHALL REVIEW GUARDRAIL LAYOUT PRIOR TO INSTALLATION OF GUARDRAIL.



**TYPICAL SECTION**

N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	
DETAILED SMGC	CADD FILE NAME 24342_TYP_001.DGN
DRAWING CHECKED JRW	DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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TYPICAL SECTIONS	OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO
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ENGLISH
COUNTY IDAHO
KEY NUMBER 24342
SHEET 19 OF 101

**PROFESSIONAL ENGINEER**  
LICENSED  
*J.C. Wilson*  
21621  
4/8/2026  
STATE OF IDAHO  
J.C. WILSON

CLEARANCES

PROJECT STANDARDS

CHARTER APPROVAL  AASHTO  3R  1R  STATE  PP  OTHER

DESIGN EXCEPTIONS:

PUBLIC HEARING WAIVER

PUBLIC HEARING DATE (Latest hearing date held or scheduled for opportunity)

DESIGN APPROVAL

RECLAMATION PLAN APPROVAL NO(S)

AIRPORT

Land Survey Monument Search and Documentation (I.C.55-1613)

R/W CERTIFICATE: Issued by  HQ  DISTRICT

TRIBAL LANDS:  AGREEMENT REQUIRED  SPECIAL PROVISIONS FOR CONTRACT PROPOSAL

BRIDGE PS & E

ENVIRONMENTAL DECISION: TYPE  CAT-EX  FONSI  ROD

ENVIRONMENTAL RE-EVALUATION

+ CLEARED UNDER PROJECT NO. + APPROVAL DATE

Table with 2 columns: Project No., Approval Date. Rows include A024(342) with dates 9/24/2024, 10/04/2024, 10/04/2024, 3/11/2026, 7/11/2024, 3/10/2026.

ESTIMATING BASIS

AGGREGATE:

SHOULDER AGGREGATE AT AN ESTIMATE 140 PCF. INCLUDING 7% MOISTURE CONTENT (ESTIMATED).

PLACEMENT AREA IS ESTIMATED AT 4 FEET WIDE X 3 INCHES DEEP.

NOTES

- 1) GUARDRAIL STATION AND OFFSET CALL OUTS REFERENCE THE FACE OF RAIL.
2) REMOVAL OF DELINEATORS IS INCIDENTAL TO OTHER BID ITEMS. RETURN TO NEZ PERCE COUNTY.

KEYED NOTES:

- DELINEATOR, TYPE 9
- POST HEIGHT (FEET)

UTILITIES:

LUMEN COPPER LINE PER UTILITY SUPPLIED MAPS
OVERHEAD POWER

PERMITS

IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S)

US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S)

OTHER

DEQ SECTION 401 WATER QUALITY CERTIFICATION YES NO

NPDES GENERAL PERMIT/SWPPP REQUIRED YES NO

POLLUTION PREVENTION PLAN REQUIRED YES NO

+ EXPIRATION DATE

AGREEMENTS (List Appropriate Name)

LOCAL:

CITY

COUNTY

HIGHWAY DISTRICT

ROAD CLOSURE AND MAINTENANCE

STATE/LOCAL CONSTRUCTION NEZ PERCE COUNTY

A024(342) 12/22/2025

IRRIGATION DISTRICT(S): Crossing Agreement Required YES NO

UTILITIES:

List all Utilities shown on plans

Table with 3 columns: Co., Name, Retain & Protect. Rows include LUMEN TECHNOLOGIES, CLEARWATER POWER COMPANY, AVISTA CORPORATION.

+ APPROVAL DATES + AGREEMENT NO.

Table with 3 columns: Utility Hearing Waiver, Agreement, Agreement No. Rows include dates 10/10/2024, 11/04/2024, 11/04/2024.

RAILROAD

List all Railroads encroached upon

Table with 3 columns: Co., Agreement For, Effective Date, No. Row includes N/A.

+ ENTER "N/A" WHEN NOT APPLICABLE
++ LPA PROJECTS - DATE ENTERED BY ROADWAY DESIGN WHEN PROJECT SENT TO PS&E.

REVISIONS table with columns: NO, DATE, BY, DESCRIPTION.

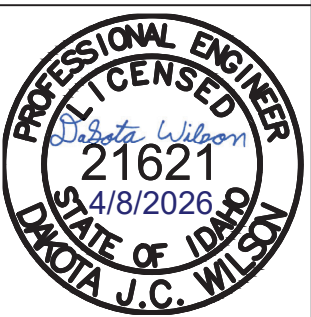
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IDAHO TRANSPORTATION DEPARTMENT logo and J-U-B ENGINEERS, INC. logo.


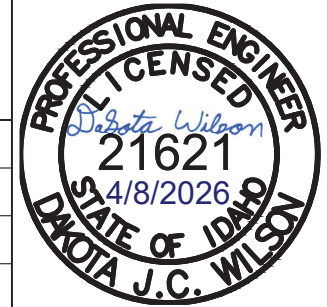
PROJECT NO. A024(342)

PROJECT CLEARANCE SUMMARY OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO



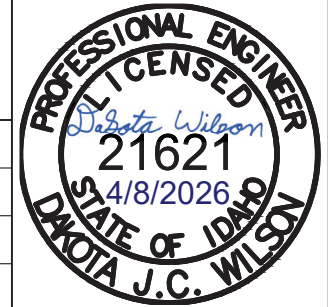

ENGLISH COUNTY NEZ PERCE KEY NUMBER 24342 SHEET 20 OF 101

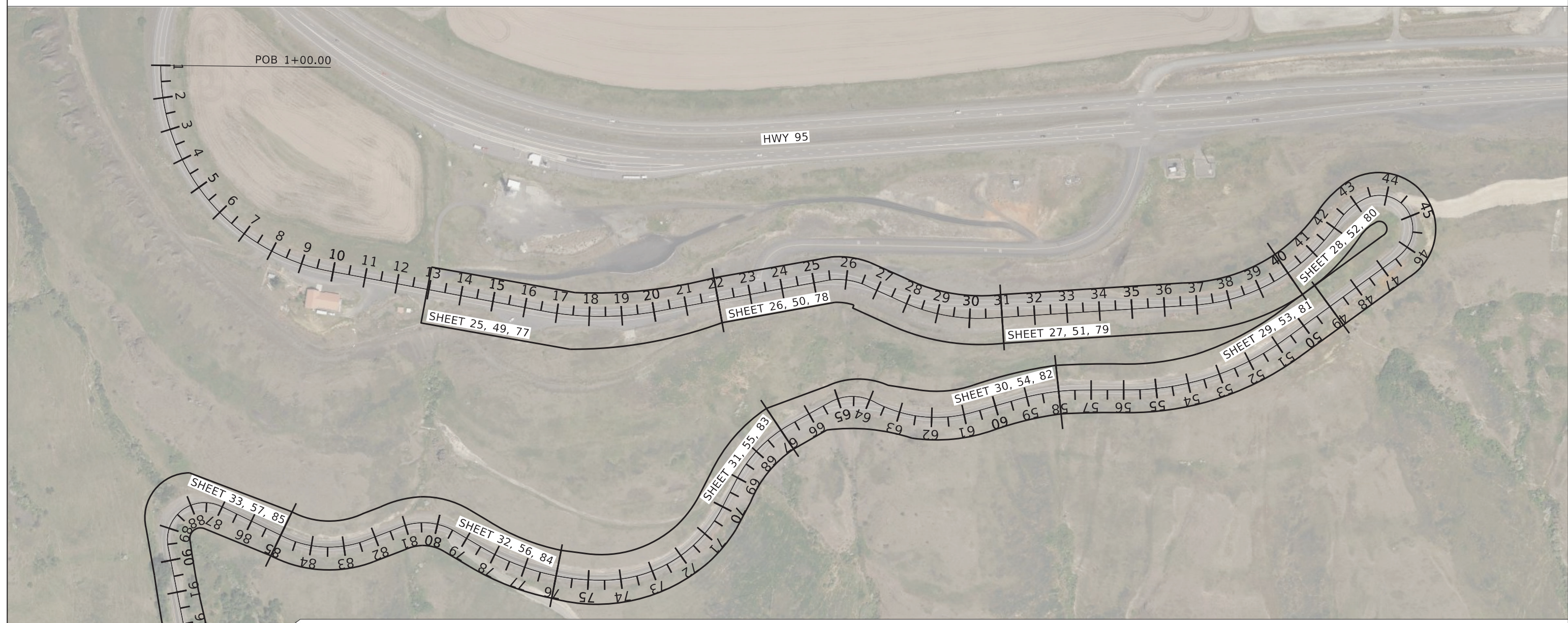
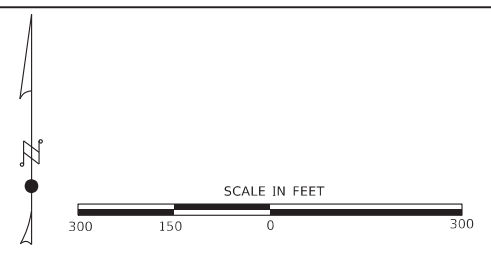


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STATION - STATION				13+00 TO 22+00	22+00 TO 31+00	31+00 TO 40+00	40+00 TO 49+00.00	49+00 TO 58+00	58+00 TO 67+00	67+00 TO 76+00	76+00 TO 85+00	85+00 TO 94+00	94+00 TO 103+00	103+00 TO 112+00	112+00 TO 121+00
ITEM NO.	ITEM	UNIT	TOTAL												
BASE SET															
203-006A	REM OF SIGN	EA	13.00				1					2		5	2
203-080B	REM OF BARRIER	FT	1082.50		367.5	439.5		128.5	147						
203-123A	REM OF MISC. ITEMS - GUARDRAIL,CABLE RAIL, & GUARDRAIL POSTS	FT	10508.50	858.5	270		446	462.5	587.5	873.5	789.5	543.5	896.5	669	908.5
205-085A	SHOULDER AGGREGATE	TON	566.00	30	31	32	23	32	31	31	28	30	32	23	32
205-090A	SHOULDER GRADING	MI	2.75	0.16	0.17	0.17	0.12	0.17	0.17	0.17	0.17	0.15	0.16	0.17	0.17
212-105A	WATER AND POLLUTION	CA	5000.00												
612-005A	W-BEAM GUARDRAIL	FT	14582.50	868.0	882.5	908.5	644.5	915.5	879.0	898	807.5	854.5	909.5	659	909.5
612-110A	GUARDRAIL ANCHOR	EACH	7.00	2			2				1				
612-115C	GUARDRAIL TERMINAL, TANGENT	EACH	5.00	1							1			2	
616-010A	SIGNS TY B-1	SF	229.40			8.6	44.6				6.3	36.3		47.6	14.9
616-040K	BRKAWY STL SIGN POST INST TY E-2	FT	386.00			10.0	78.0				9.5	70.5		75.0	23.5
617-045A	DELINEATOR TY9	EACH	269.00	25	11	9	11	18	14	16	14	18	13	17	12
626-100A	MISCELLANEOUS TEMPORARY TRAFFIC CONTROL ITEMS	CA	5000.00												
675-005A	SURVEY	LS	1.00												
S904-05A	SP - TEMPORARY TRAFFIC CONTROL	LS	1.00												
Z629-05A	MOBILIZATION	LS	1.00												
OPTION A															
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203-123A	REM OF MISC. ITEMS - GUARDRAIL,CABLE RAIL, & GUARDRAIL POSTS	FT	2268.50												
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205-090A	SHOULDER GRADING	MI	0.43												
212-105A	WATER AND POLLUTION	CA	1000.00												
612-005A	W-BEAM GUARDRAIL	FT	2304.00												
612-110A	GUARDRAIL ANCHOR	EACH	1.00												
612-115C	GUARDRAIL TERMINAL, TANGENT	EACH	1.00												
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616-040K	BRKAWY STL SIGN POST INST TY E-2	FT	169.50												
617-045A	DELINEATOR TY9	EACH	47.00												
626-100A	MISCELLANEOUS TEMPORARY TRAFFIC CONTROL ITEMS	CA	1000.00												
675-005A	SURVEY	LS	1.00												
S904-05A	SP - TEMPORARY TRAFFIC CONTROL	LS	1.00												
Z629-05A	MOBILIZATION	LS	1.00												
OPTION B															
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212-105A	WATER AND POLLUTION	CA	1000.00												
612-005A	W-BEAM GUARDRAIL	FT	1312.50												
612-110A	GUARDRAIL ANCHOR	EACH	1.00												
612-115C	GUARDRAIL TERMINAL, TANGENT	EACH	1.00												
616-010A	SIGNS TY B-1	SF	27.00												
616-040K	BRKAWY STL SIGN POST INST TY E-2	FT	50.00												
617-045A	DELINEATOR TY9	EACH	23.00												
626-100A	MISCELLANEOUS TEMPORARY TRAFFIC CONTROL ITEMS	CA	1000.00												
675-005A	SURVEY	LS	1.00												
S904-05A	SP - TEMPORARY TRAFFIC CONTROL	LS	1.00												
Z629-05A	MOBILIZATION	LS	1.00												

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NO.	DATE	BY	DESCRIPTION																											

SHEET NO.	SHEET 37,61,89	SHEET 38,62,90	SHEET 39,63,91	SHEET 40,64,92	SHEET 41,65,93	SHEET 42,66,94	SHEET 43,67,95	SHEET 44,68,96	SHEET 45,69,97	SHEET 46,70,98	SHEET 47,71,99	SHEET 48,72,100								
STA.-STA.	121+00 TO 130+00	130+00 TO 139+00	139+00 TO 148+00	148+00 TO 151+00	151+00 TO 157+00	157+00 TO 166+00	166+00 TO 174+00	174+00 TO 179+50	179+50 TO 188+00	188+00 TO 193+00	193+00 TO 202+00	202+00 TO 205+25								
ITEM NO.																				
BASE SET																				
203-006A	1		1								1	0								
203-080B												0								
203-123A	325	888	526.5	277.5						423	763.5	0								
205-085A	30	31	32	10						33	65	10								
205-090A	0.16	0.17	0.17	0.05						0.09	0.18	0.03								
212-105A																				
612-005A	846.5	885.5	901.5	274						473	927.5	138.5								
612-110A				1						1										
612-115C												1								
616-010A	36.3		8.6	9.0							8.6	8.6								
616-040K	67.5		10.0	18.0							10.0	14.0								
617-045A	23	13	21	3						11	17	3								
626-100A																				
675-005A																				
S904-05A																				
Z629-05A																				
OPTION A																				
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612-110A							1													
612-115C					1															
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617-045A					11	16	20													
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S904-05A																				
Z629-05A																				

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> <th>DESIGNED SMGC</th> <th>SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY</th> <th rowspan="4"> <b>IDAHO TRANSPORTATION DEPARTMENT</b>                        YOUR Safety→YOUR Mobility→YOUR Economic Opportunity  <b>J-U-B ENGINEERS, INC.</b> </th> <th>PROJECT NO.</th> <th>ROADWAY SUMMARY</th> <th>ENGLISH</th> </tr> </thead> <tbody> <tr> <td>NO.</td> <td>DATE</td> <td>BY</td> <td>DESCRIPTION</td> <td>DESIGN CHECKED DJW</td> <td>CADD FILE NAME 24342_RDSM_002.DGN</td> <td>A024(342)</td> <td>OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO</td> <td>COUNTY NEZ PERCE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>DETAILED SMGC</td> <td>DRAWING DATE: OCTOBER 2024</td> <td></td> <td></td> <td>KEY NUMBER 24342</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>DRAWING CHECKED JRW</td> <td></td> <td></td> <td></td> <td>SHEET 22 OF 101</td> </tr> </tbody> </table>										REVISIONS				DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	<b>IDAHO TRANSPORTATION DEPARTMENT</b>  YOUR Safety→YOUR Mobility→YOUR Economic Opportunity <b>J-U-B ENGINEERS, INC.</b>	PROJECT NO.	ROADWAY SUMMARY	ENGLISH	NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED DJW	CADD FILE NAME 24342_RDSM_002.DGN	A024(342)	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO	COUNTY NEZ PERCE					DETAILED SMGC	DRAWING DATE: OCTOBER 2024			KEY NUMBER 24342					DRAWING CHECKED JRW				SHEET 22 OF 101										
REVISIONS				DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	<b>IDAHO TRANSPORTATION DEPARTMENT</b>  YOUR Safety→YOUR Mobility→YOUR Economic Opportunity <b>J-U-B ENGINEERS, INC.</b>	PROJECT NO.	ROADWAY SUMMARY	ENGLISH																																															
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED DJW	CADD FILE NAME 24342_RDSM_002.DGN		A024(342)	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO	COUNTY NEZ PERCE																																															
				DETAILED SMGC	DRAWING DATE: OCTOBER 2024				KEY NUMBER 24342																																															
				DRAWING CHECKED JRW					SHEET 22 OF 101																																															



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DETAILED SMGC	
DRAWING CHECKED DJW	DRAWING DATE: OCTOBER 2024
CADD FILE NAME 24342_PRKEY_001.DGN	

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.
A024(342)

PROJECT SHEET KEY
OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 23 OF 101

**PROFESSIONAL ENGINEER**  
Dakota Wilson  
LICENSED  
21621  
4/8/2026  
STATE OF IDAHO  
Dakota J.C. WILSON



SCALE IN FEET  
300 150 0 300

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DETAILED  
SMGC  
DRAWING CHECKED  
DJW  
CADD FILE NAME  
24342\_PRKEY\_002.DGN

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
DRAWING DATE:  
OCTOBER 2024

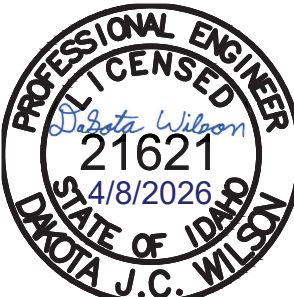
**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

  
**J-U-B ENGINEERS, INC.**

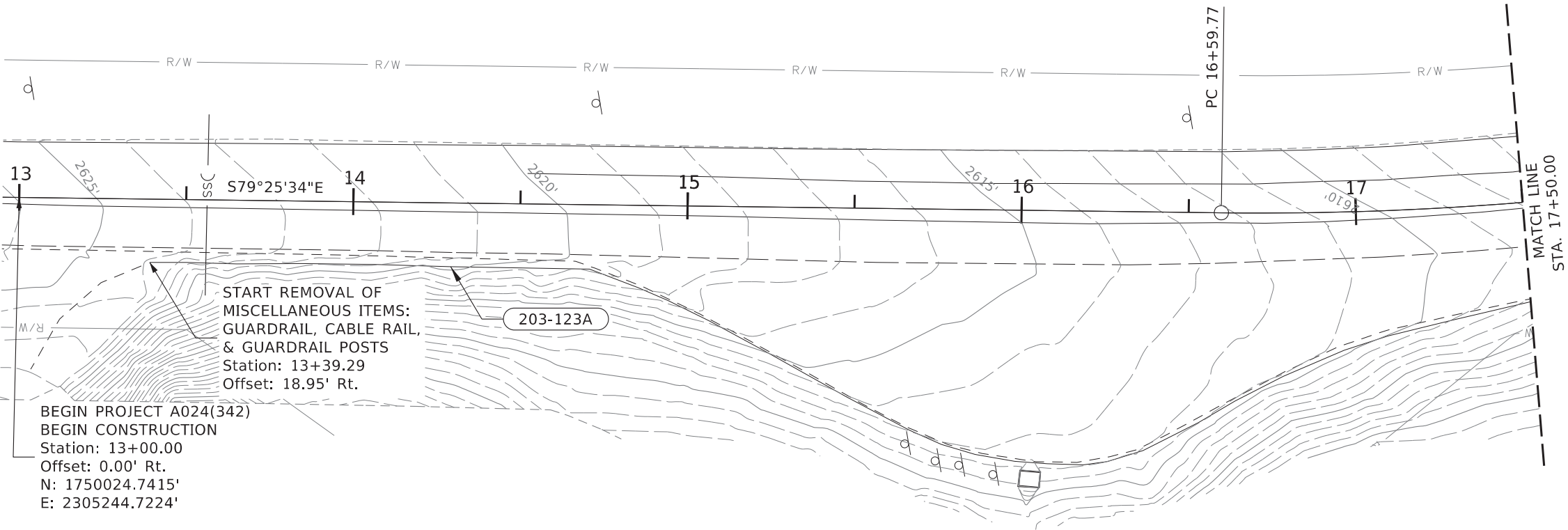
PROJECT NO.  
  
A024(342)

PROJECT SHEET KEY  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO

ENGLISH  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 24 OF 101

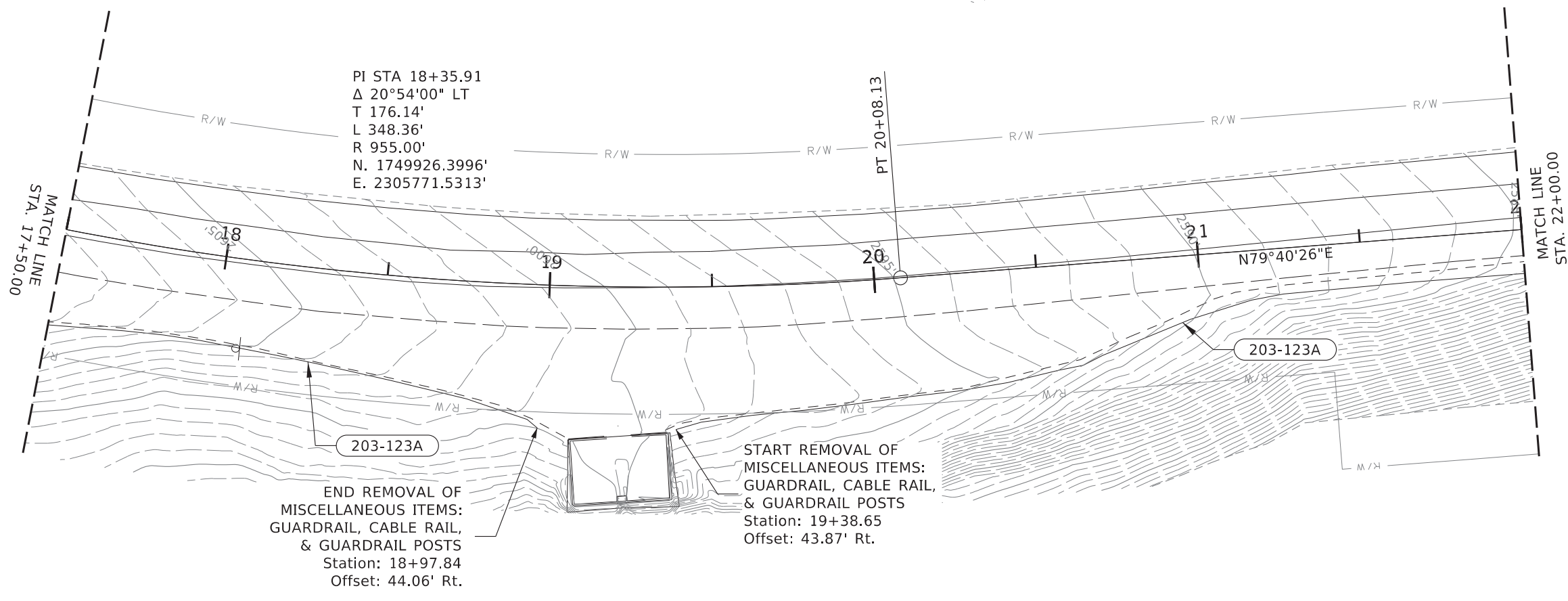
  
**PROFESSIONAL ENGINEER**  
 LICENSED  
*Dakota Wilson*  
 21621  
 4/8/2026  
 STATE OF IDAHO  
 DAKOTA J.C. WILSON

BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
436.0 FT	STA. 13+39.29, 18.95 R TO 17+50.00, 29.85 R
155.0 FT	STA. 17+50.00, 29.85 R TO 18+97.84, 44.06 R
267.5 FT	STA. 19+38.65, 43.87 R TO 22+00.00, 13.50 R



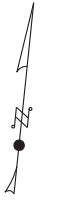
BEGIN PROJECT A024(342)  
 BEGIN CONSTRUCTION  
 Station: 13+00.00  
 Offset: 0.00' Rt.  
 N: 1750024.7415'  
 E: 2305244.7224'

PI STA 18+35.91  
 Δ 20°54'00" LT  
 T 176.14'  
 L 348.36'  
 R 955.00'  
 N. 1749926.3996'  
 E. 2305771.5313'



END REMOVAL OF MISCELLANEOUS ITEMS:  
 GUARDRAIL, CABLE RAIL,  
 & GUARDRAIL POSTS  
 Station: 18+97.84  
 Offset: 44.06' Rt.

START REMOVAL OF MISCELLANEOUS ITEMS:  
 GUARDRAIL, CABLE RAIL,  
 & GUARDRAIL POSTS  
 Station: 19+38.65  
 Offset: 43.87' Rt.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_001.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

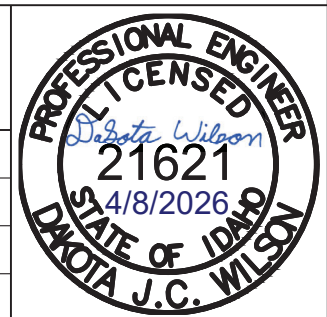
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

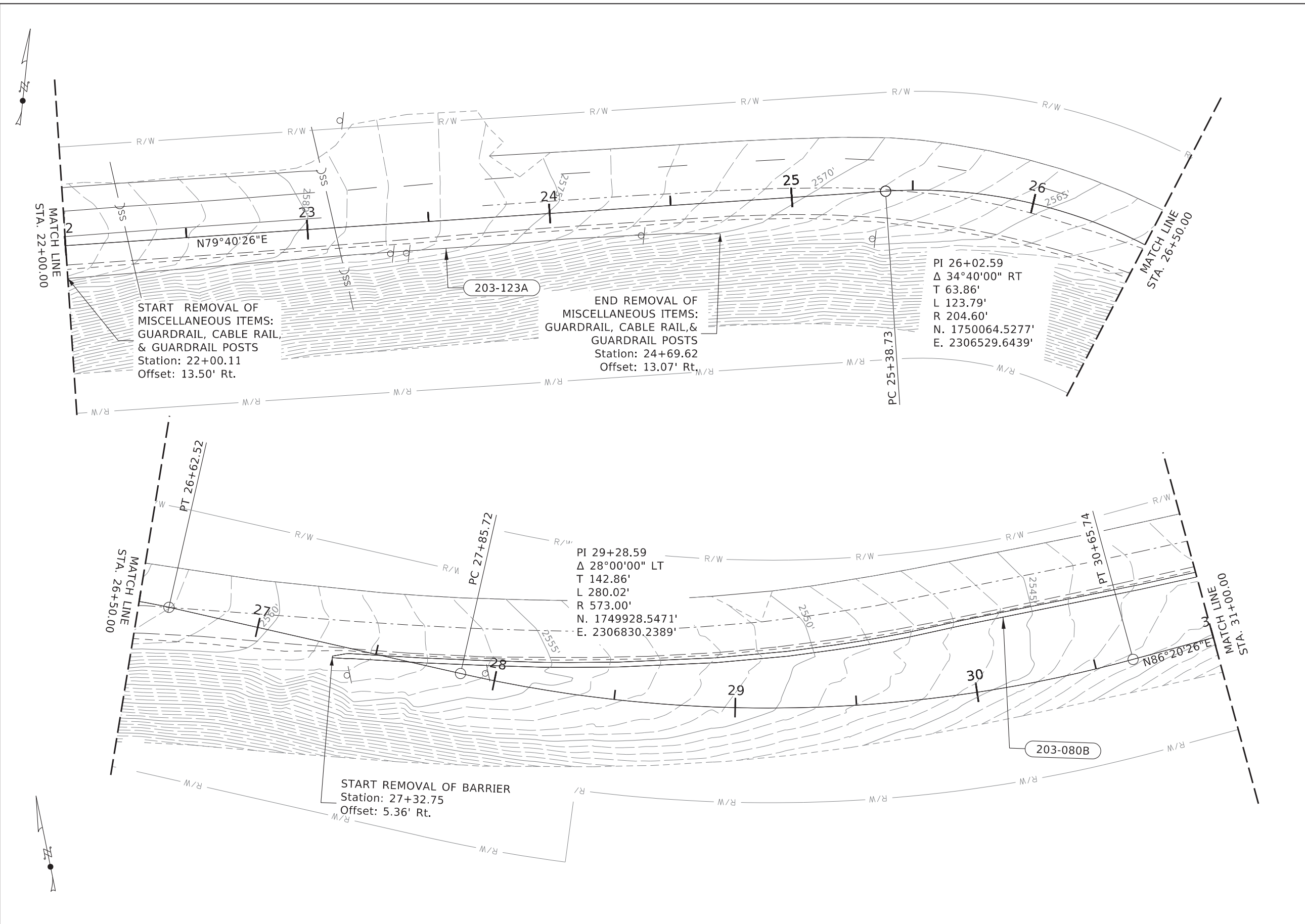
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 13+00.00 TO STA. 22+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 25 OF 101





BASE SET	
203-080B	REMOVAL OF BARRIER
367.5 FT	STA. 27+32.75, 5.36 R TO STA. 31+00, 25.91 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
270.0 FT	STA. 22+00, 13.50 R TO 24+69.62, 13.07 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_002.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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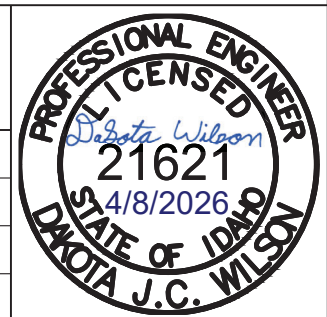
**J-U-B ENGINEERS, INC.**



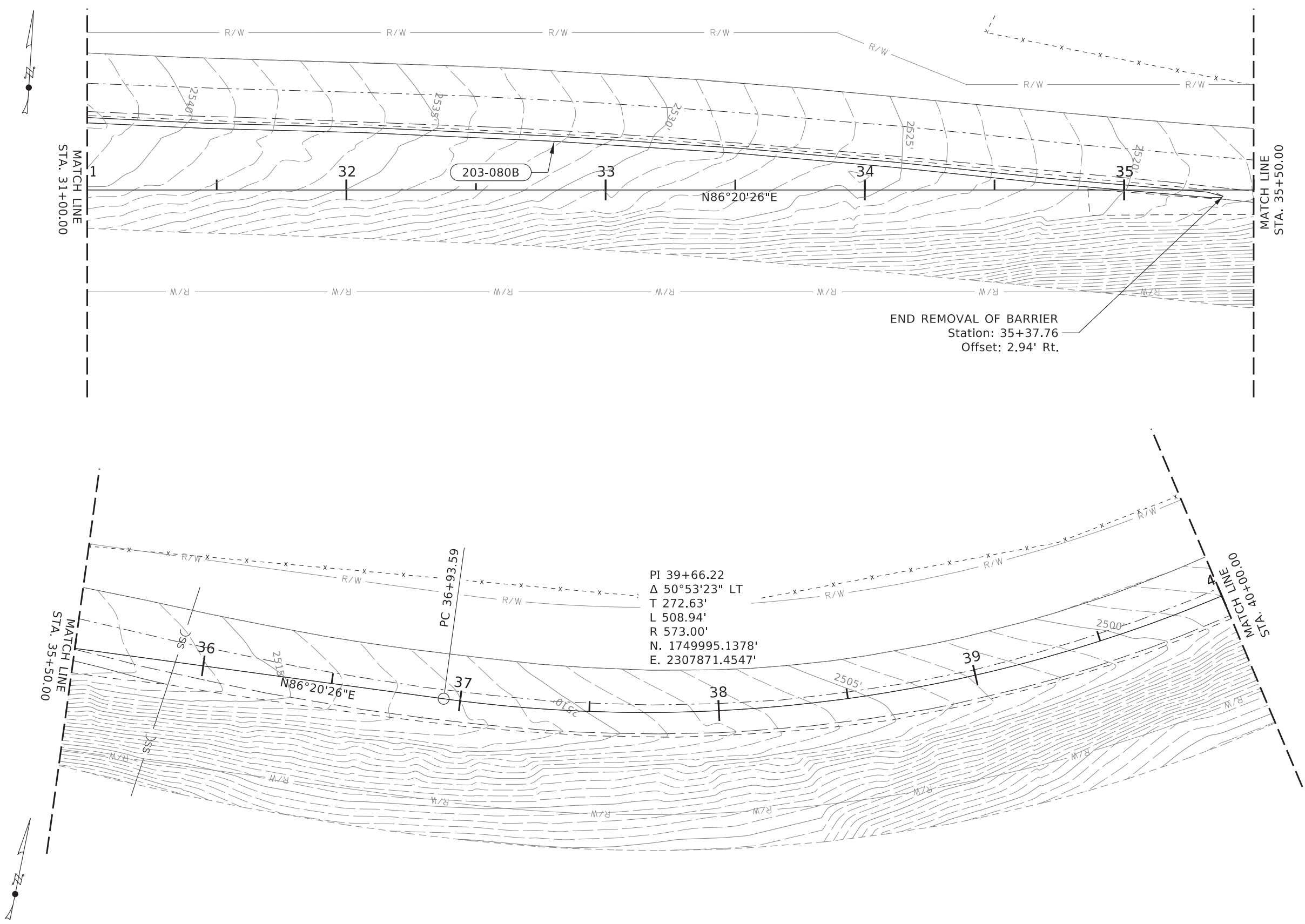
PROJECT NO.	A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 22+00.00 TO STA. 31+00.00
-----------------------------------	--

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 26 OF 101



BASE SET  
 203-080B REMOVAL OF BARRIER  
 439.5 FT STA. 31+00.00, 25.91 L TO  
 35+37.76, 2.94 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
 DESIGN CHECKED  
DJW  
 DETAILED  
SMGC  
 DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
 CADD FILE NAME  
24342\_REM\_003.dgn  
 DRAWING DATE:  
OCTOBER 2024

**IDAHO TRANSPORTATION DEPARTMENT**  
 YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

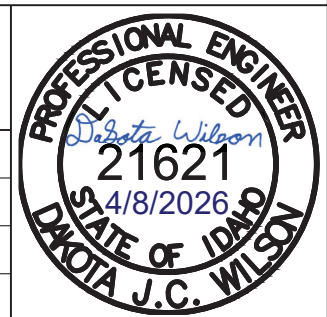
**J-U-B ENGINEERS, INC.**

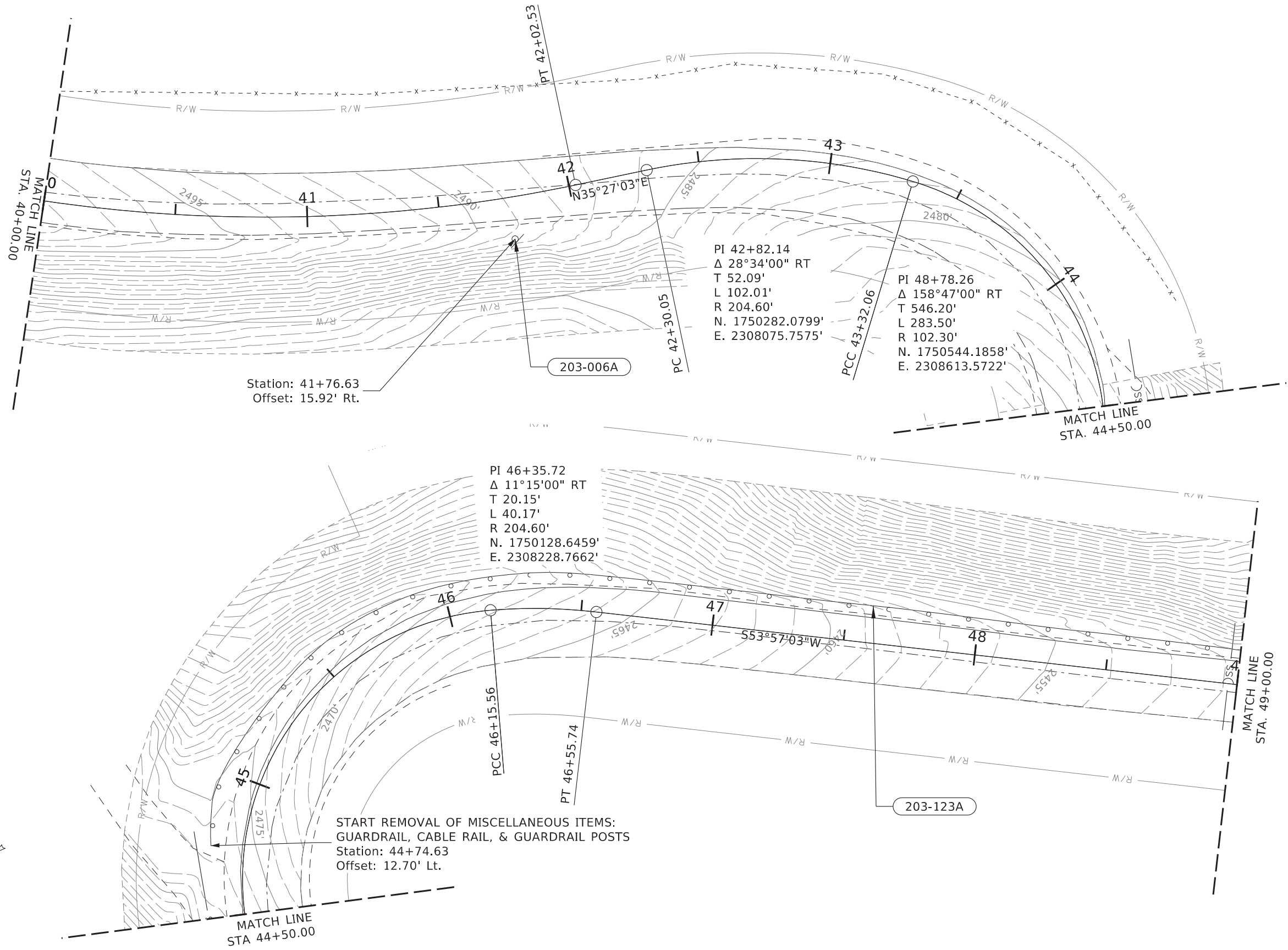


PROJECT NO.  
**A024(342)**

REMOVAL PLANS & PROJECT ALIGNMENT  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 NEZ PERCE CO  
 STA. 31+00.00 TO STA. 40+00.00

**ENGLISH**  
 COUNTY  
NEZ PERCE  
 KEY NUMBER  
24342  
 SHEET 27 OF 101





BASE SET	
203-006A 1 EA	REMOVAL OF SIGN STA. 41+76.63, 15.92 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
446.0 FT	STA. 44+74.63, 12.71 L TO 49+00.00, 13.08 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_004.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
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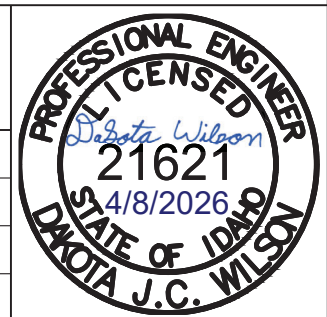


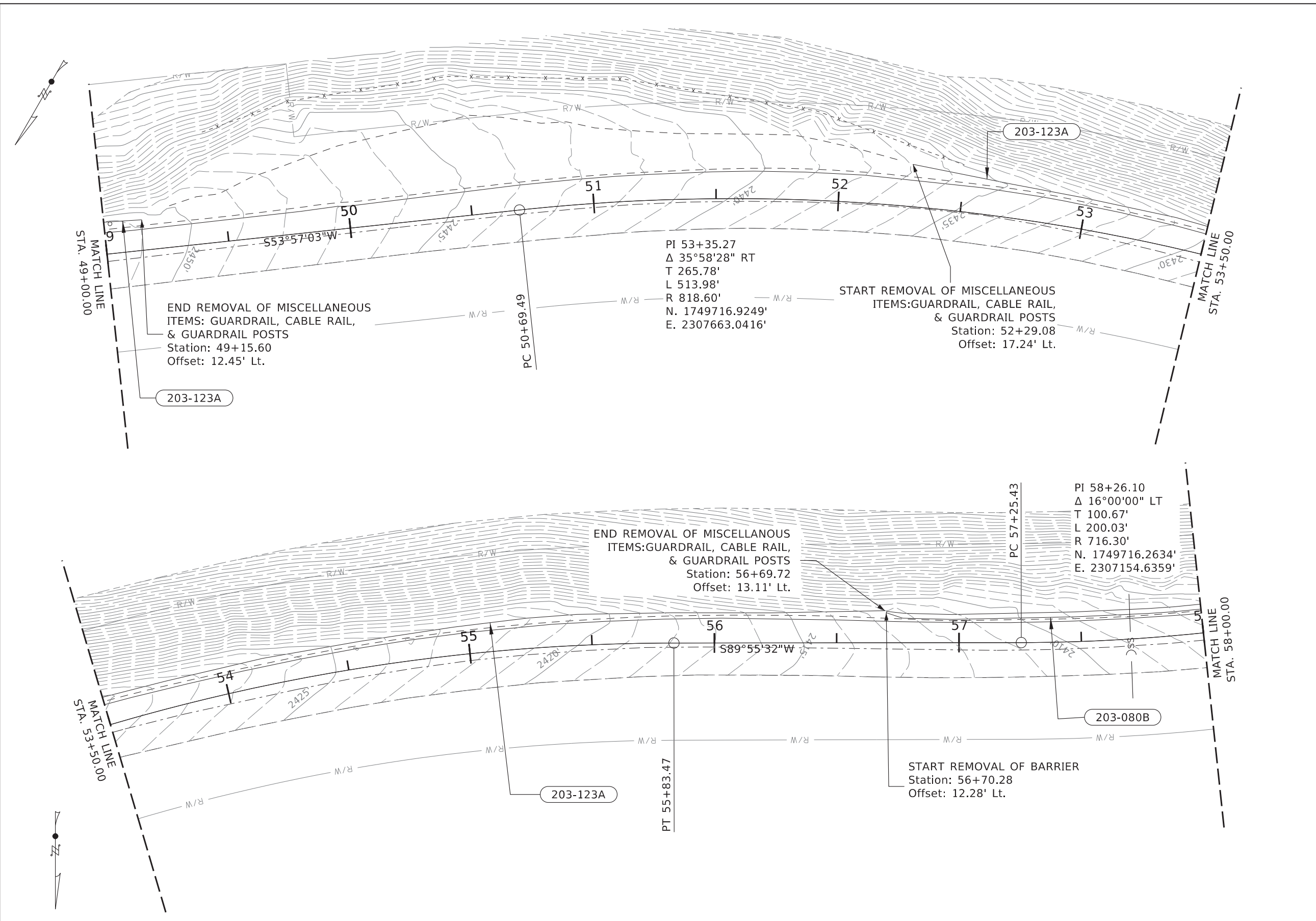
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 40+00.00 TO STA. 49+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 28 OF 101





BASE SET

203-080B	REMOVAL OF BARRIER
128.5 FT	STA. 56+70.28, 12.28 L TO STA. 58+00.00, 9.76 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
16.0 FT	STA. 49+00.00, 13.08 L TO 49+15.60, 12.45 L
123.5 FT	STA. 52+29.08, 17.24 L TO 53+50.00, 11.65 L
323.0 FT	STA. 53+50.00, 11.65 L TO 56+69.72, 13.11 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_REM\_005.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT

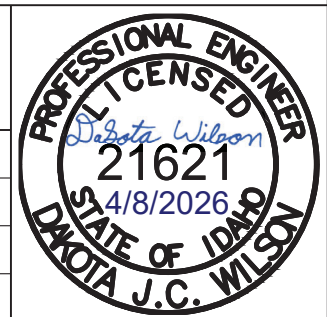
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 49+00.00 TO STA. 58+00.00

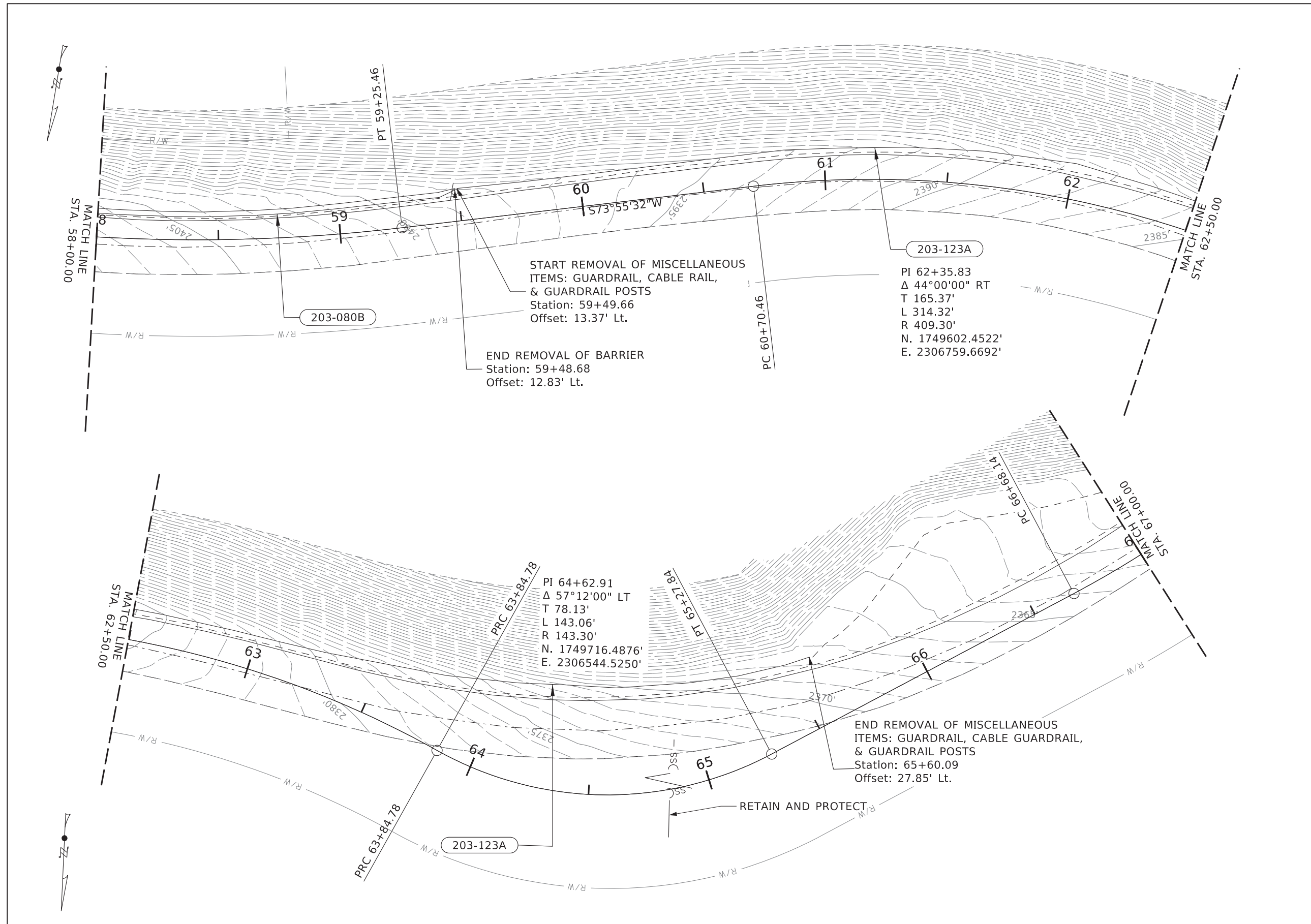
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 29 OF 101





BASE SET	
203-080B 147.0 FT	REMOVAL OF BARRIER STA. 58+00.00, 9.76 L TO STA. 59+48.68, 12.83 L
203-123A 306.5 FT	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS STA. 59+49.66, 13.37 L TO 62+50.00, 12.75 L
281.0 FT	STA. 62+50.08, 12.75 L TO 65+60.09, 27.85 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_006.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

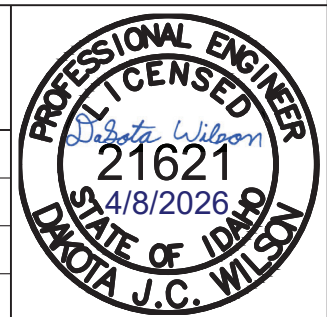


**J-U-B ENGINEERS, INC.**

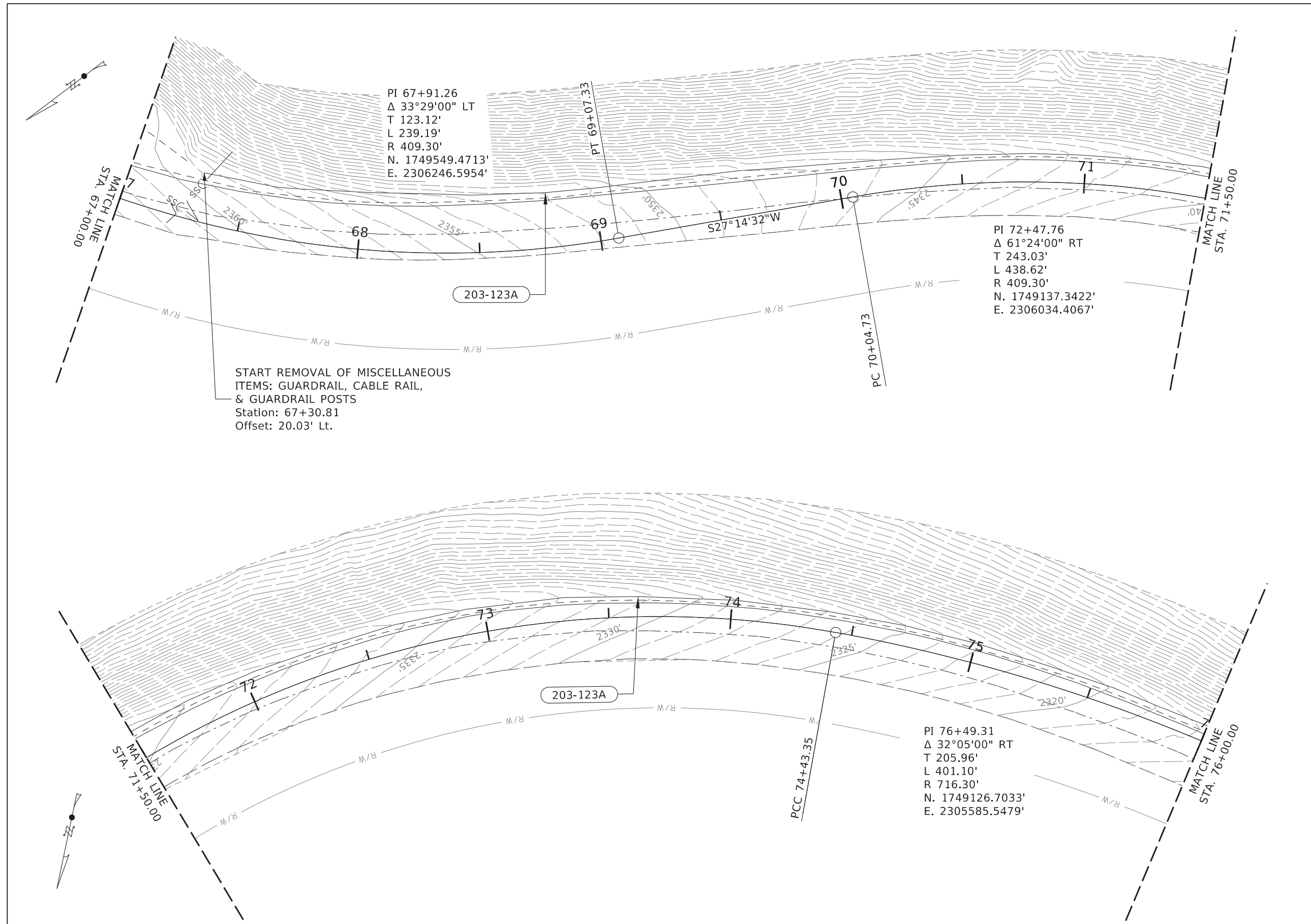
PROJECT NO.  A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 58+00.00 TO STA. 67+00.00
---

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 30 OF 101



BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
414.5 FT	STA. 67+30.81, 20.03 L TO 71+50.00, 12.42 L
459.0 FT	STA. 71+50.00, 12.42 L TO 76+00.00, 6.59 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_007.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

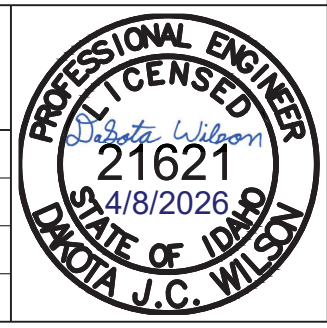
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

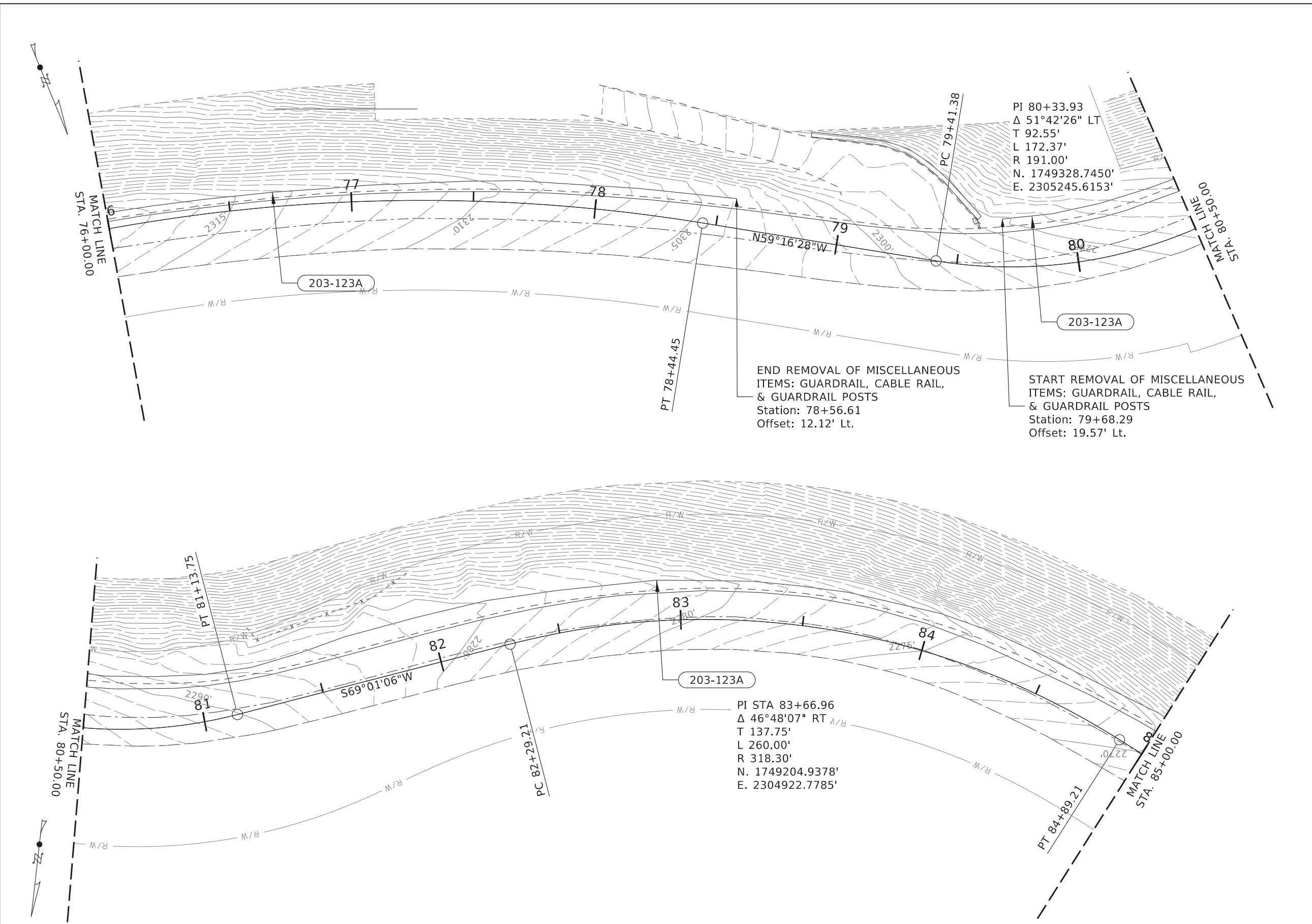
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 67+00.00 TO STA. 76+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 31 OF 101





BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
259.5 FT	STA. 76+00.00, 6.59 L TO 78+56.61, 12.12 L
73.0 FT	STA. 79+68.29, 19.57 L TO 80+50.00, 22.26 L
457.0 FT	STA. 80+50.00, 22.26 L TO 85+00.00, 17.69 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_008.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

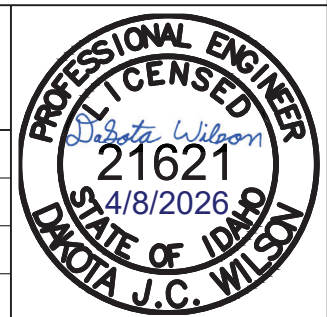
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

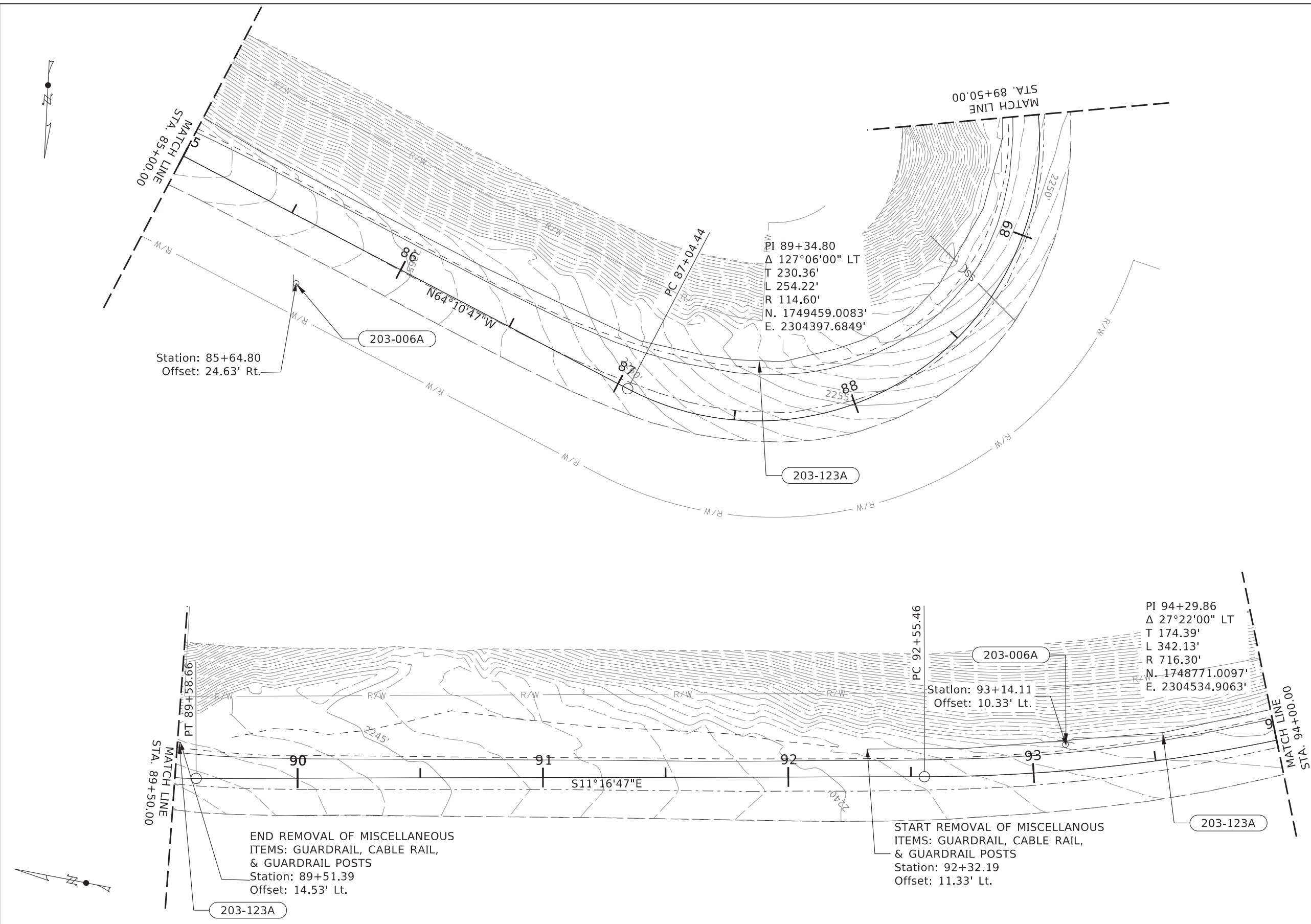
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 76+00.00 TO STA. 85+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 32 OF 101





BASE SET

203-006A	REMOVAL OF SIGN
1 EA	STA. 85+64.80, 24.63 R
1 EA	STA. 93+14.11, 10.33 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
376.5 FT	STA. 85+00.00, 17.69 L TO 89+50.00, 14.64 L
1.5 FT	STA. 89+50.00, 14.64 L TO 89+51.51, 14.52 L
165.5 FT	STA. 92+32.19, 11.33 L TO 94+00.00, 12.74 L

Station: 85+64.80  
Offset: 24.63' Rt.

PI 89+34.80  
Δ 127°06'00" LT  
T 230.36'  
L 254.22'  
R 114.60'  
N. 1749459.0083'  
E. 2304397.6849'

PI 94+29.86  
Δ 27°22'00" LT  
T 174.39'  
L 342.13'  
R 716.30'  
N. 1748771.0097'  
E. 2304534.9063'

END REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS  
Station: 89+51.39  
Offset: 14.53' Lt.

START REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS  
Station: 92+32.19  
Offset: 11.33' Lt.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC  
DESIGN CHECKED DJW  
DETAILED SMGC  
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
CADD FILE NAME 24342\_REM\_009.dgn  
DRAWING DATE: OCTOBER 2024

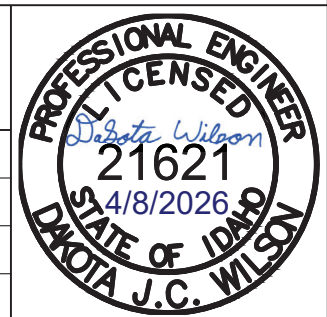
**IDAHO TRANSPORTATION DEPARTMENT**  
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

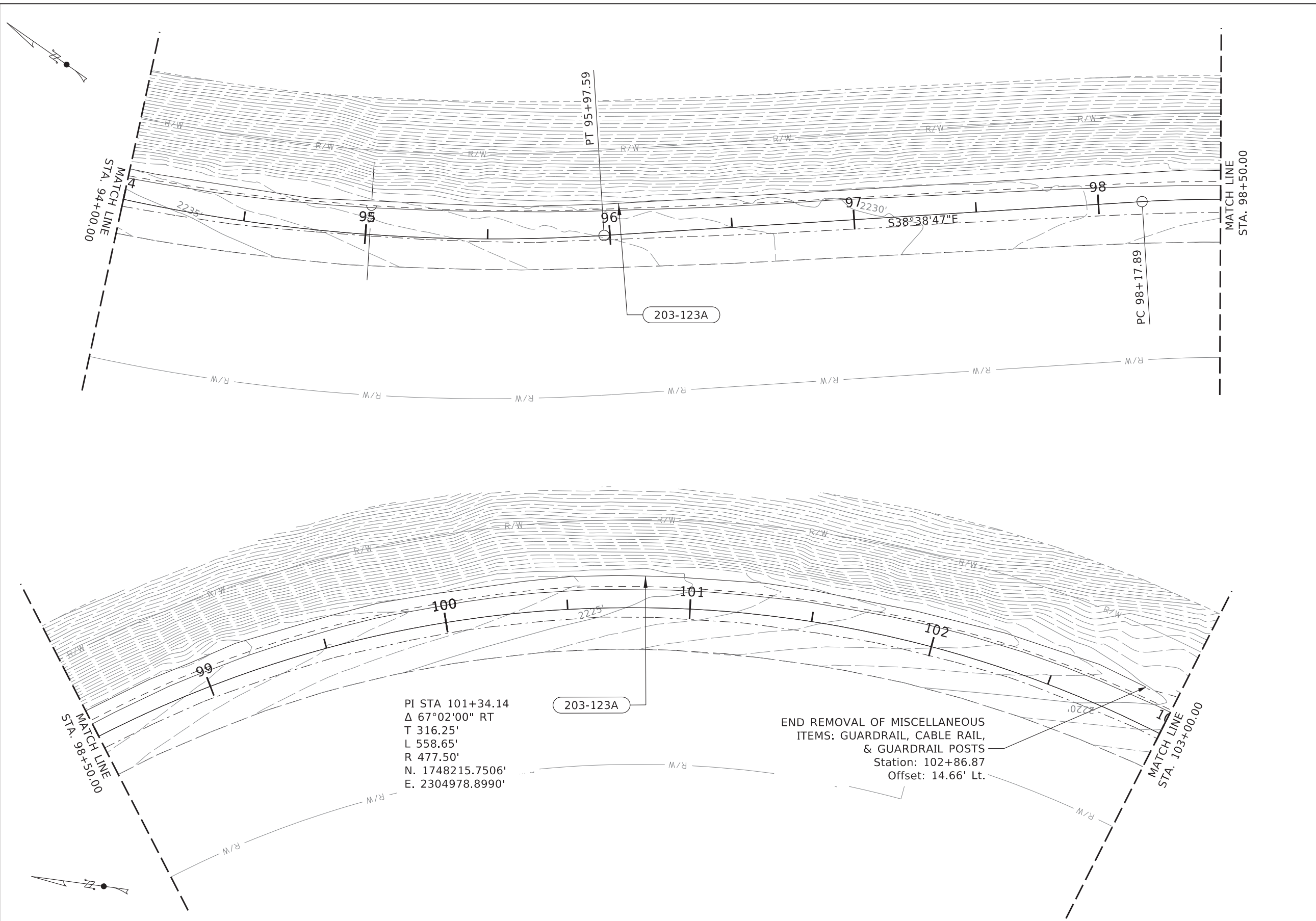
**J-U-B ENGINEERS, INC.**

PROJECT NO. A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 85+00.00 TO STA. 94+00.00

ENGLISH  
COUNTY NEZ PERCE  
KEY NUMBER 24342  
SHEET 33 OF 101





BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
447.5 FT	STA. 94+00.00, 12.74 L TO 98+50.00, 11.72 L
449.0 FT	STA. 98+50.00, 17.24 L TO 102+86.87, 14.66 L

PI STA 101+34.14  
 $\Delta$  67°02'00" RT  
 T 316.25'  
 L 558.65'  
 R 477.50'  
 N. 1748215.7506'  
 E. 2304978.8990'

END REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS  
 Station: 102+86.87  
 Offset: 14.66' Lt.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
 DESIGN CHECKED  
DJW  
 DETAILED  
SMGC  
 DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
 CADD FILE NAME  
24342\_REM\_010.dgn  
 DRAWING DATE:  
OCTOBER 2024

**IDAHO TRANSPORTATION DEPARTMENT**



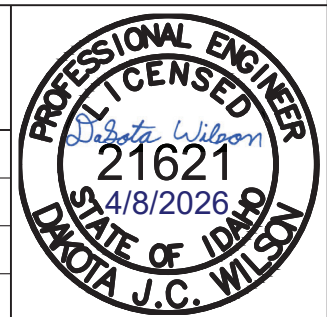
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

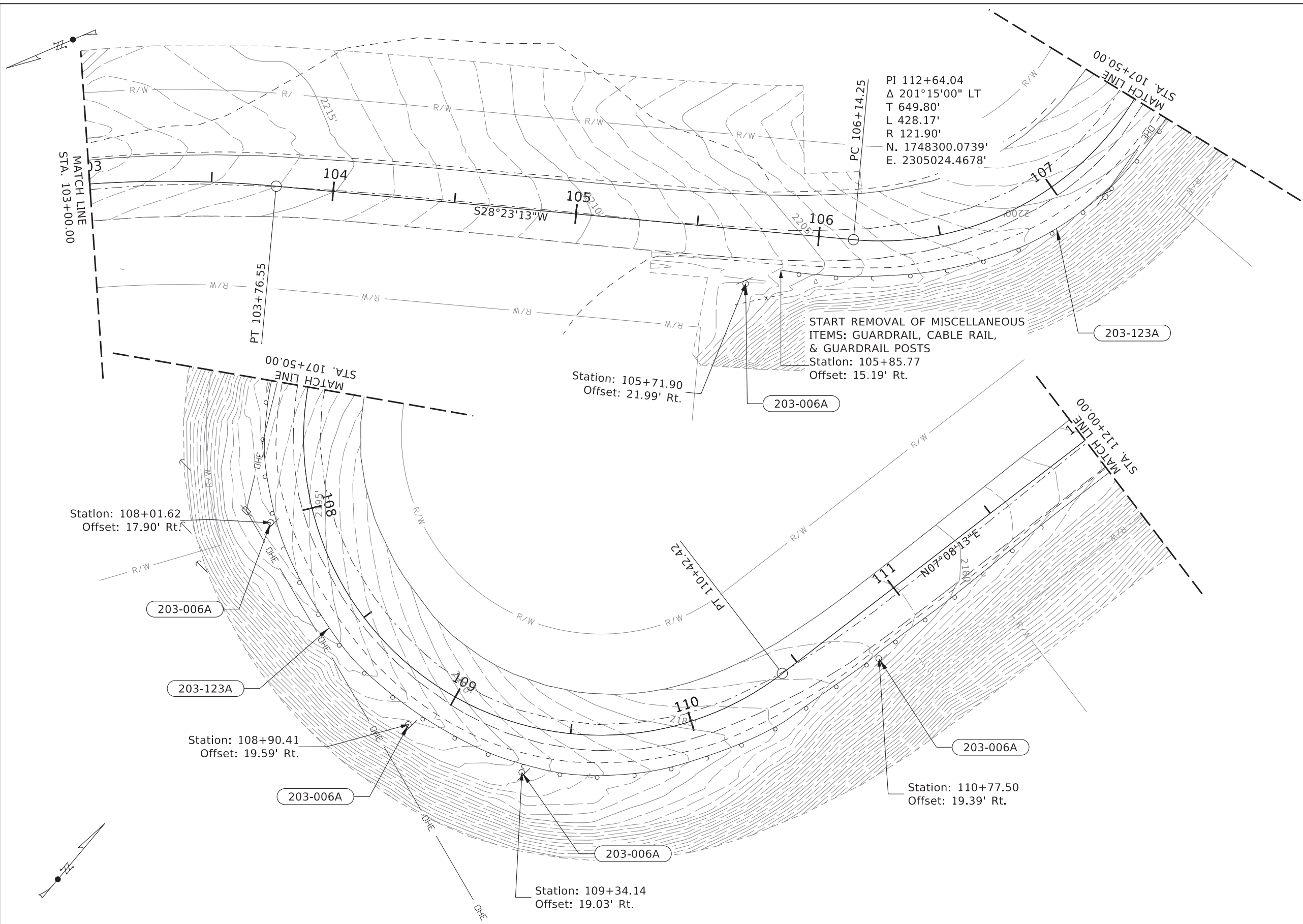
**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 NEZ PERCE CO  
 STA. 94+00.00 TO STA. 103+00.00

**ENGLISH**  
 COUNTY  
NEZ PERCE  
 KEY NUMBER  
24342  
 SHEET 34 OF 101





BASE SET

203-006A	REMOVAL OF SIGN
1 EA	STA. 105+71.90, 21.99 R
1 EA	STA. 108+01.62, 17.90 R
1 EA	STA. 108+90.41, 19.59 R
1 EA	STA. 109+34.14, 19.03 R
1 EA	STA. 110+77.50, 19.39 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
182.0 FT	STA. 105+85.77, 15.19 R TO 107+50.00, 15.23 R
487.0 FT	STA. 107+50.00, 15.23 R TO 112+00.00, 16.47 R

Station: 108+01.62  
Offset: 17.90' Rt.

Station: 108+90.41  
Offset: 19.59' Rt.

Station: 109+34.14  
Offset: 19.03' Rt.

Station: 105+71.90  
Offset: 21.99' Rt.

START REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS  
Station: 105+85.77  
Offset: 15.19' Rt.

Station: 110+77.50  
Offset: 19.39' Rt.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DESIGN CHECKED  
DJW  
DETAILED  
SMGC  
DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_REM\_011.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

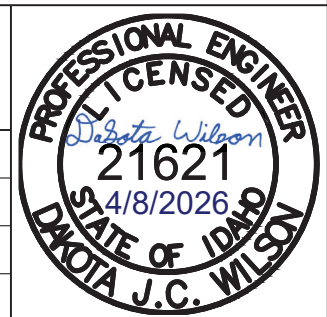
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

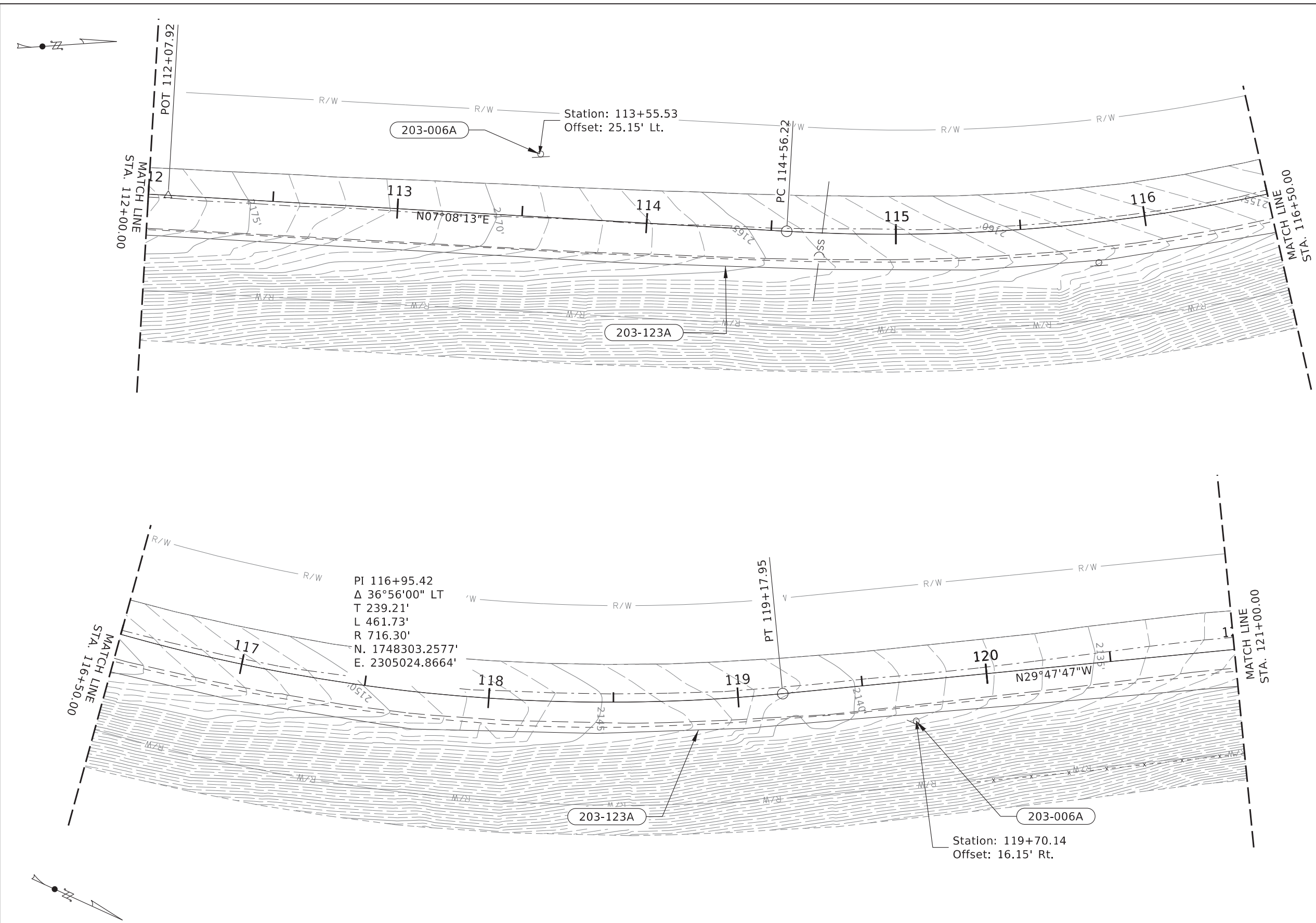
**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 103+00.00 TO STA. 112+00.00

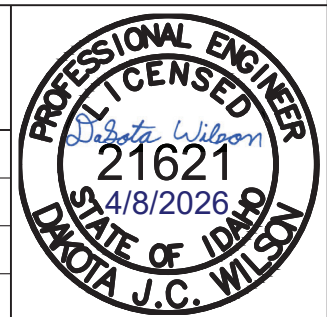
**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 35 OF 101





BASE SET	
203-006A	REMOVAL OF SIGN
1 EA	STA. 113+55.94, 25.15 L
1 EA	STA. 119+70.14, 16.15 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
453.5 FT	STA. 112+00.00, 16.47 R TO 116+50.00, 15.61 R
455.0 FT	STA. 116+50.00, 15.61 R TO 121+00.00, 14.83 R

PI 116+95.42  
 $\Delta$  36°56'00" LT  
 T 239.21'  
 L 461.73'  
 R 716.30'  
 N. 1748303.2577'  
 E. 2305024.8664'



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_012.dgn
DRAWING DATE: OCTOBER 2024

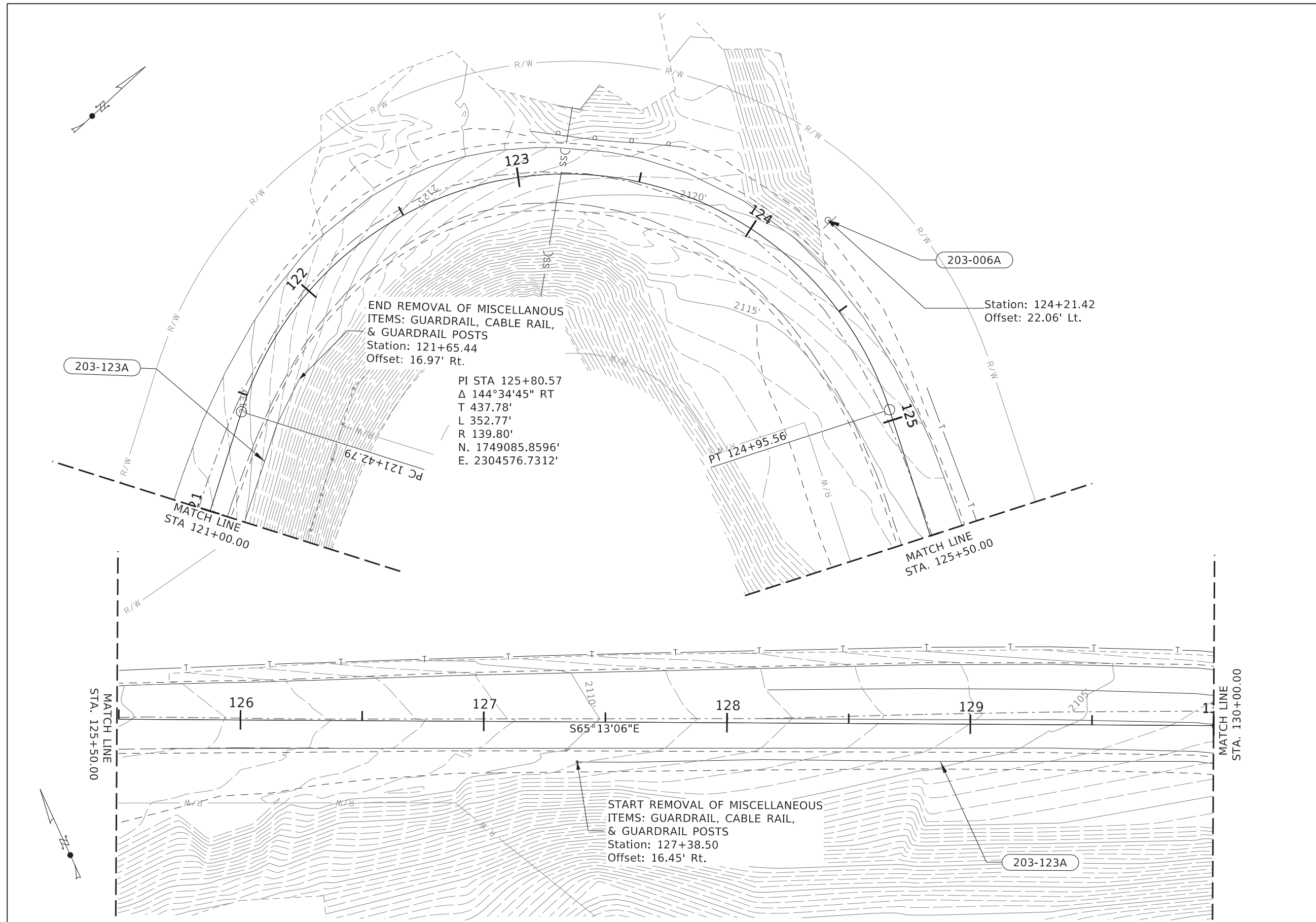
**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 112+00.00 TO STA. 121+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 36 OF 101



BASE SET	
203-006A 1 EA	REMOVAL OF SIGN STA. 124+21.42, 22.06 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
63.0 FT	STA. 121+00.00, 14.83 R TO 121+65.44, 16.97 R
262.0 FT	STA. 127+38.50, 16.45 R TO STA. 130+00.00, 15.60 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DESIGN CHECKED  
DJW  
DETAILED  
SMGC  
DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_REM\_013.dgn  
DRAWING DATE:  
OCTOBER 2024

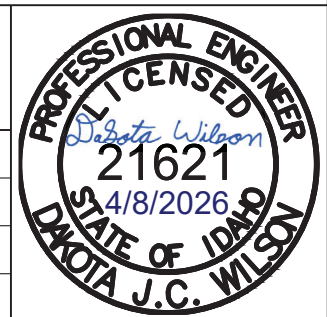
**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity  
**J-U-B ENGINEERS, INC.**



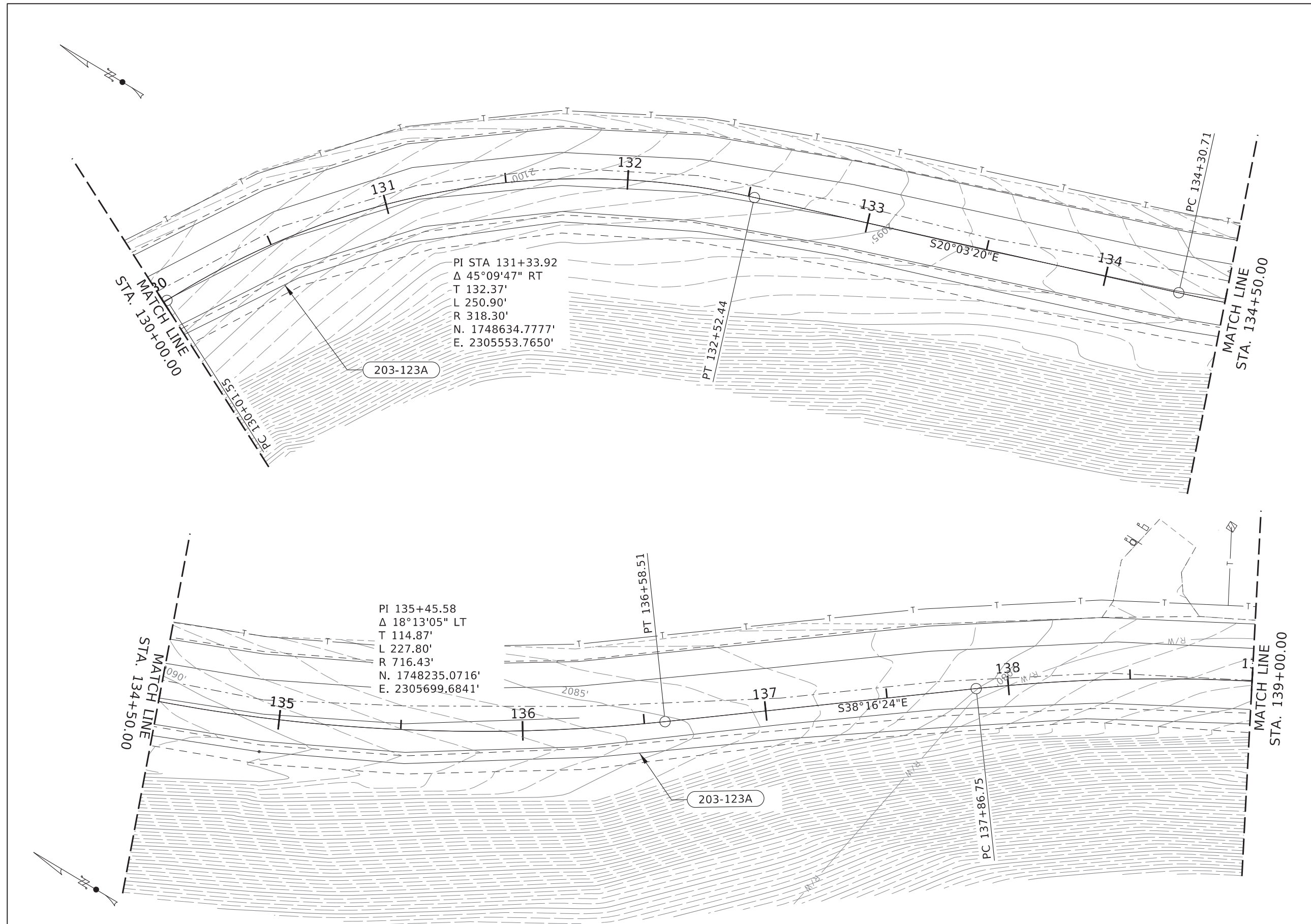
PROJECT NO.  
**A024(342)**

REMOVAL PLANS & PROJECT ALIGNMENT  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 NEZ PERCE CO  
 STA. 121+00.00 TO STA. 130+00.00

**ENGLISH**  
 COUNTY  
NEZ PERCE  
 KEY NUMBER  
24342  
 SHEET 37 OF 101



BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
436.5 FT	STA. 130+00.00, 15.60 R TO 134+50.00, 14.25 R
451.5 FT	STA. 134+50.00, 14.25 R TO 139+00.00, 17.50 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_014.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

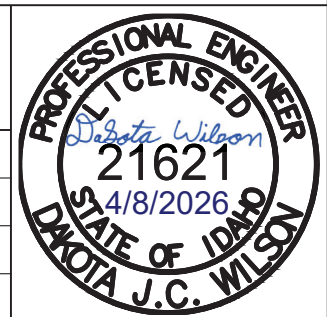
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

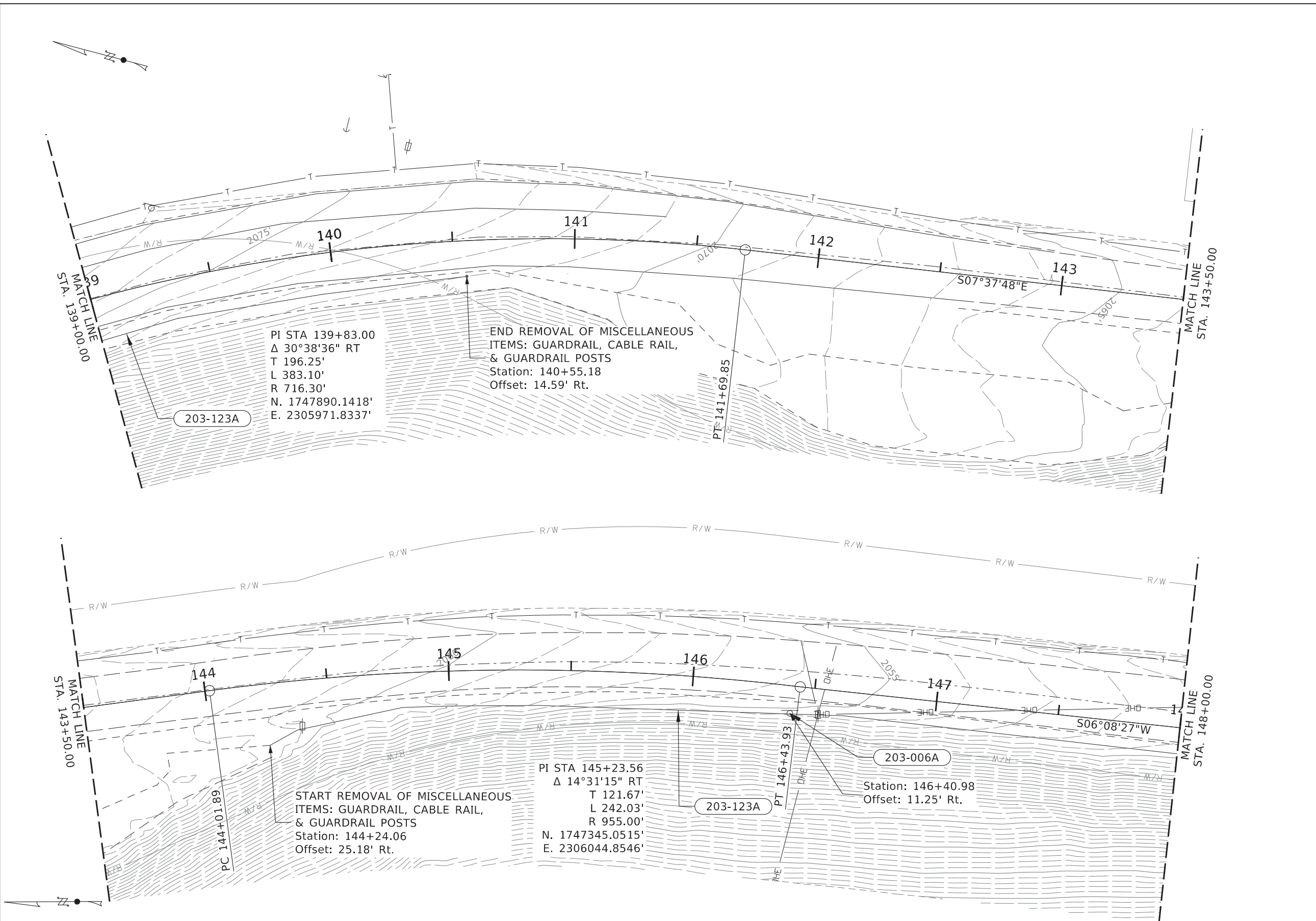
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
------------------------------

REMOVAL PLANS & PROJECT ALIGNMENT  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 130+00.00 TO STA. 139+00.00
---

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 38 OF 101





BASE SET	
203-006A 1 EA	REMOVAL OF SIGN STA. 146+40.98, 11.25 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
152.0 FT	STA. 139+00.00, 17.50 R TO STA. 140+55.18, 14.59 R
374.5 FT	STA. 144+24.06, 25.18 R TO 148+00.00, 10.72 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_015.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

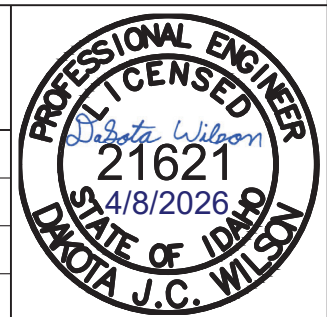
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

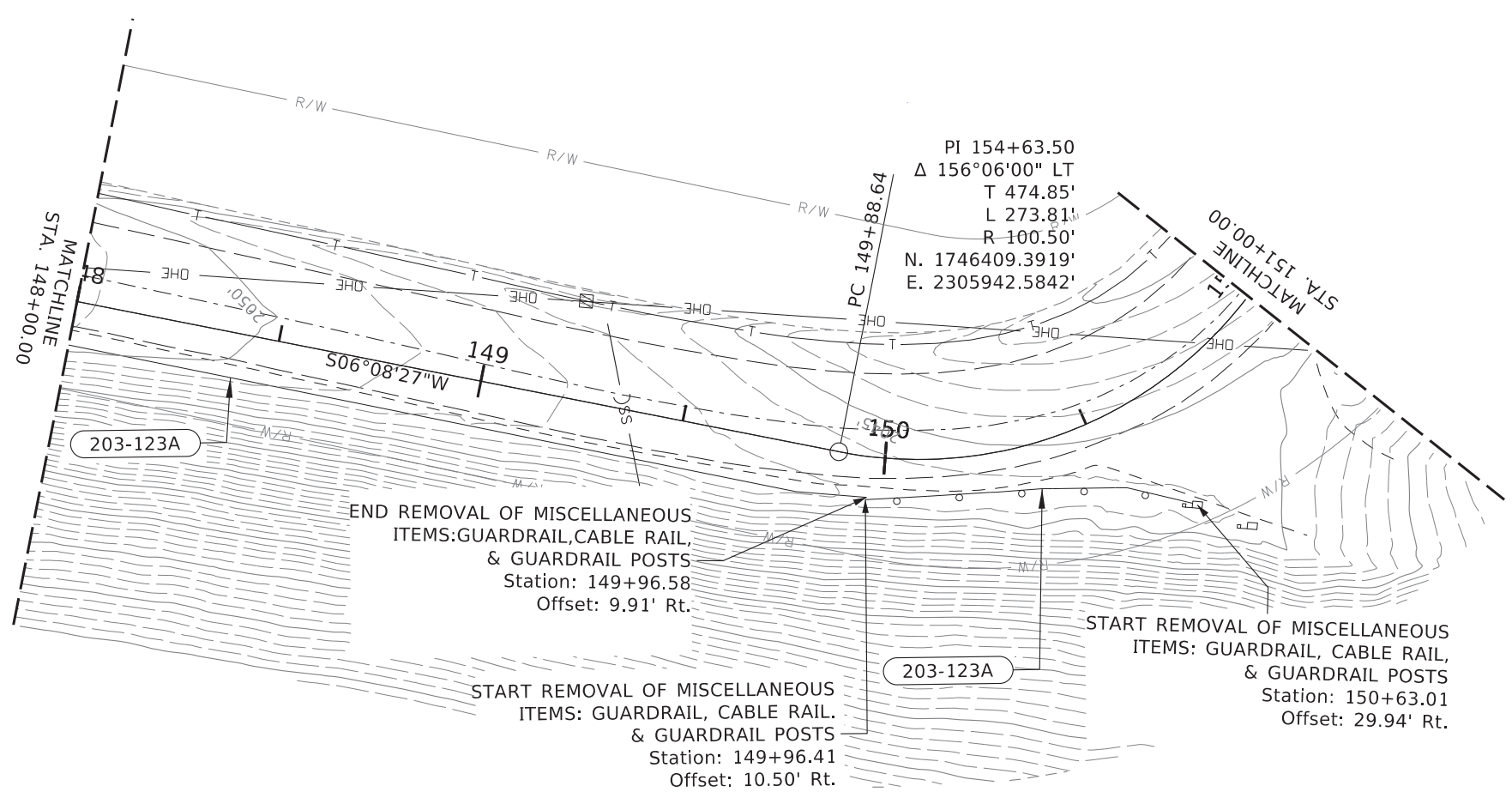
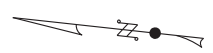
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 139+00.00 TO STA. 148+00.00
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 39 OF 101





BASE SET	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
197.5 FT	STA. 148+00.00, 10.72 R TO 149+96.58, 9.91 R
80.0 FT	STA. 149+96.41, 10.50 R TO 150+62.43, 29.05 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_016A.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

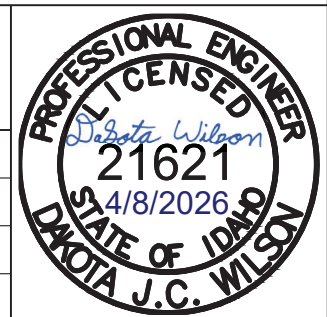


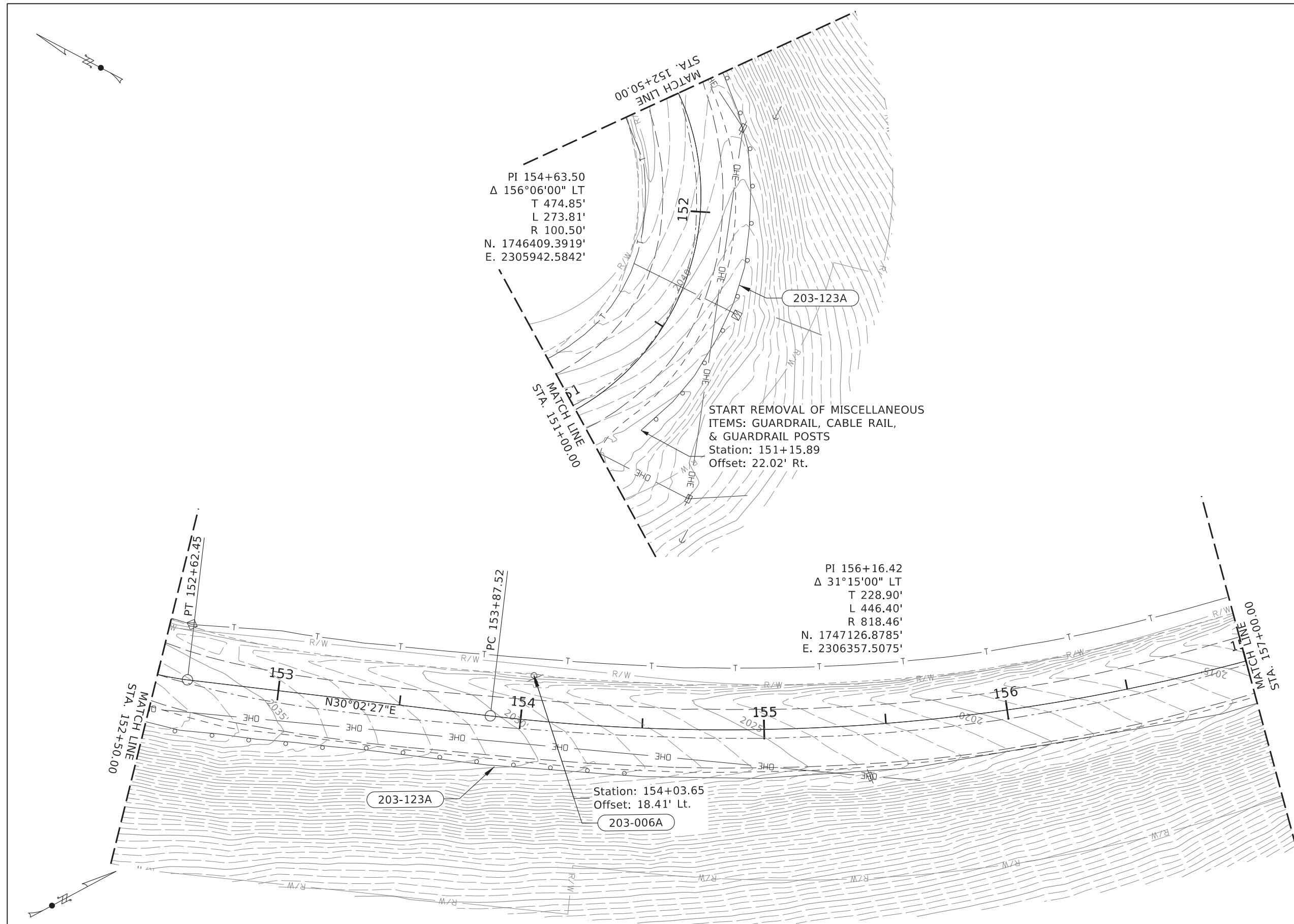
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity  
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 148+00.00 TO STA. 151+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 40 OF 101





OPTION A

203-006A	REMOVAL OF SIGN
1 EA	STA. 154+03.65, 18.41 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
162.5 FT	STA. 151+15.89, 22.02 R TO 152+50.00, 19.98 R
460.5 FT	STA. 152+50.00, 19.98 R TO 157+00.00, 17.95 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_REM\_017.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT

OLD SPIRAL HWY GUARDRAIL, PH 1

NEZ PERCE CO

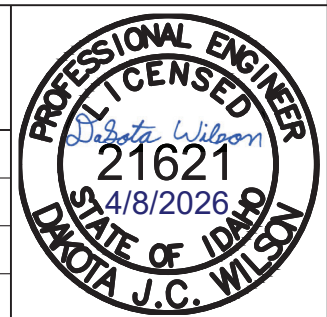
STA. 151+00.00 TO STA. 157+00.00

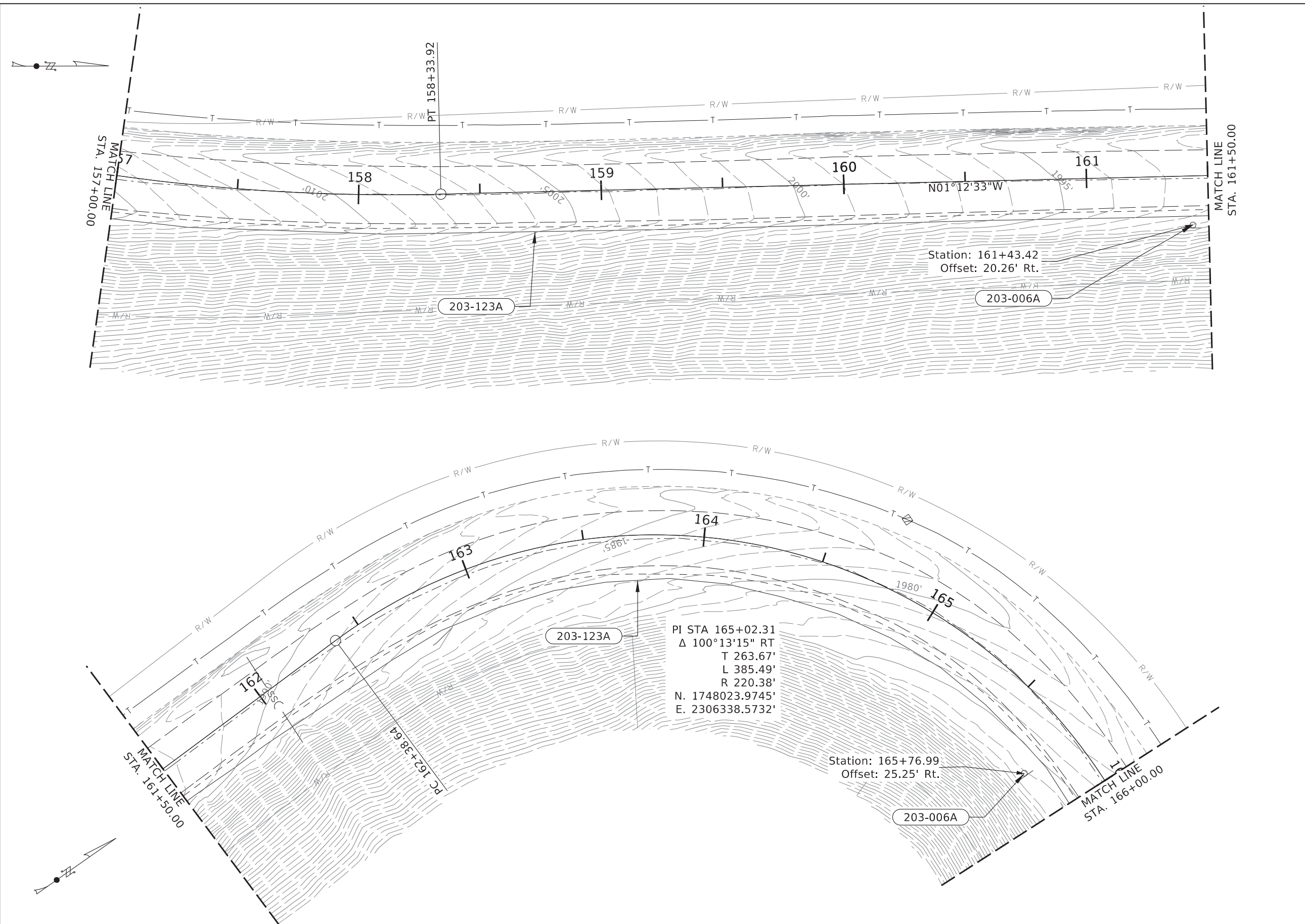
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 41 OF 101





OPTION A

203-006A	REMOVAL OF SIGN
1 EA	STA. 161+43.42, 20.26 R
1 EA	STA. 165+76.99, 25.25 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
453.0 FT	STA. 157+00.00, 17.95 R TO 161+50.00, 16.56 R
420.5FT	STA. 161+50.00, 16.56 R TO 166+00.00, 17.40 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_018.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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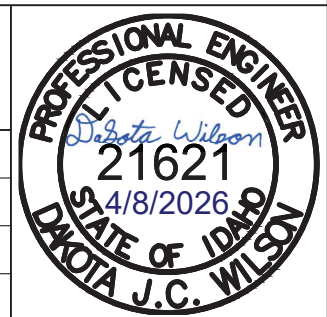
**J-U-B ENGINEERS, INC.**

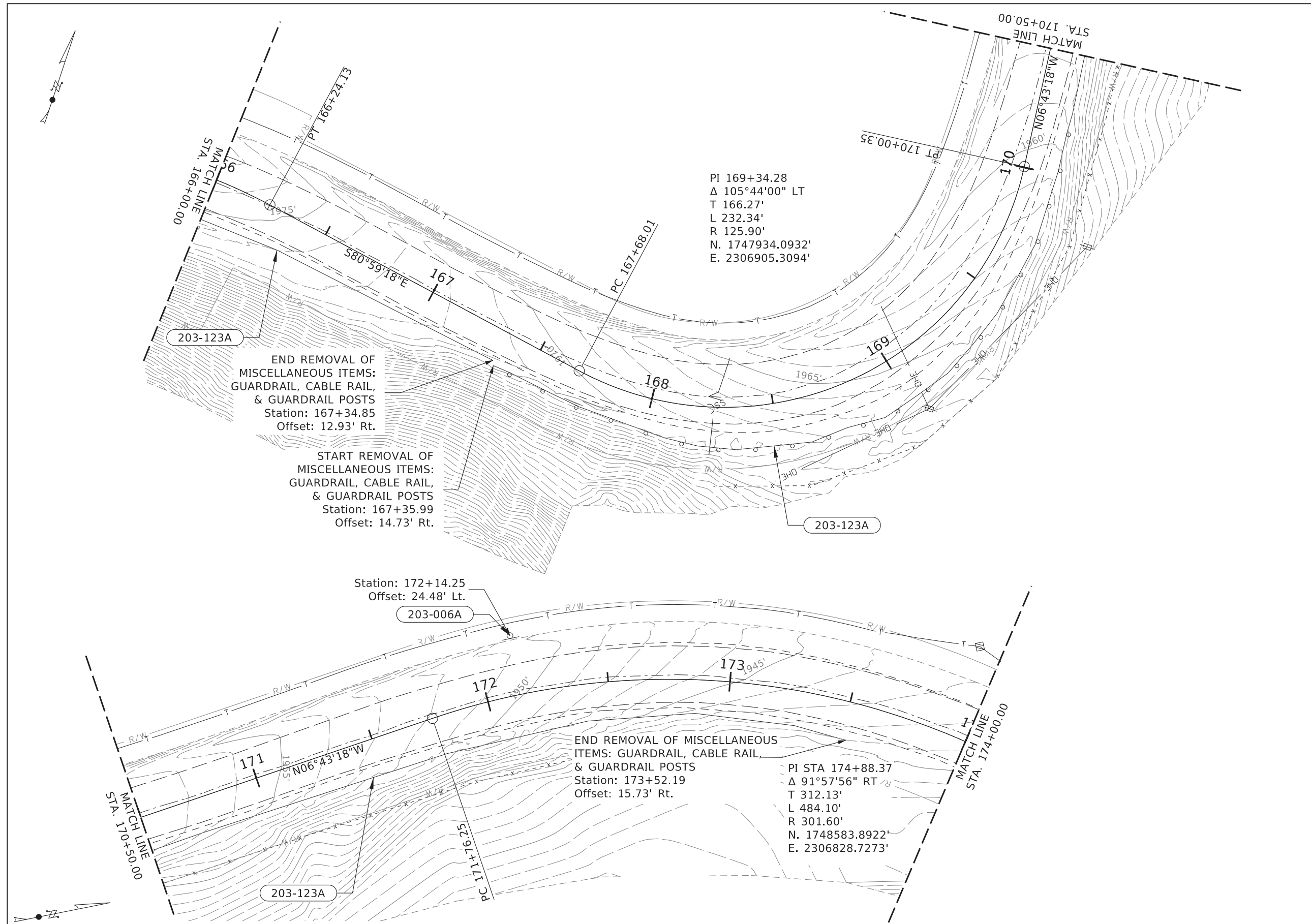


PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 157+00.00 TO STA. 166+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 42 OF 101





OPTION A

203-006A	REMOVAL OF SIGN
1 EA	STA. 172+14.25, 24.48 L
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
133.0 FT	STA. 166+00.00, 17.40 R TO 167+34.85, 12.93 R
345.0 FT	STA. 167+35.99, 14.73 R TO 112+00.00, 16.47 R
294.0 FT	STA. 170+50.00, 14.33 R TO STA. 173+52.19, 15.73 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_019.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

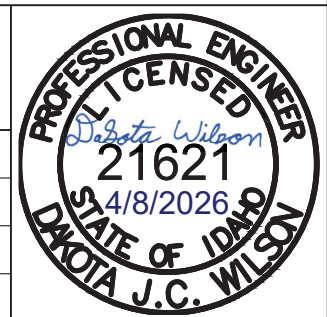
**J-U-B ENGINEERS, INC.**

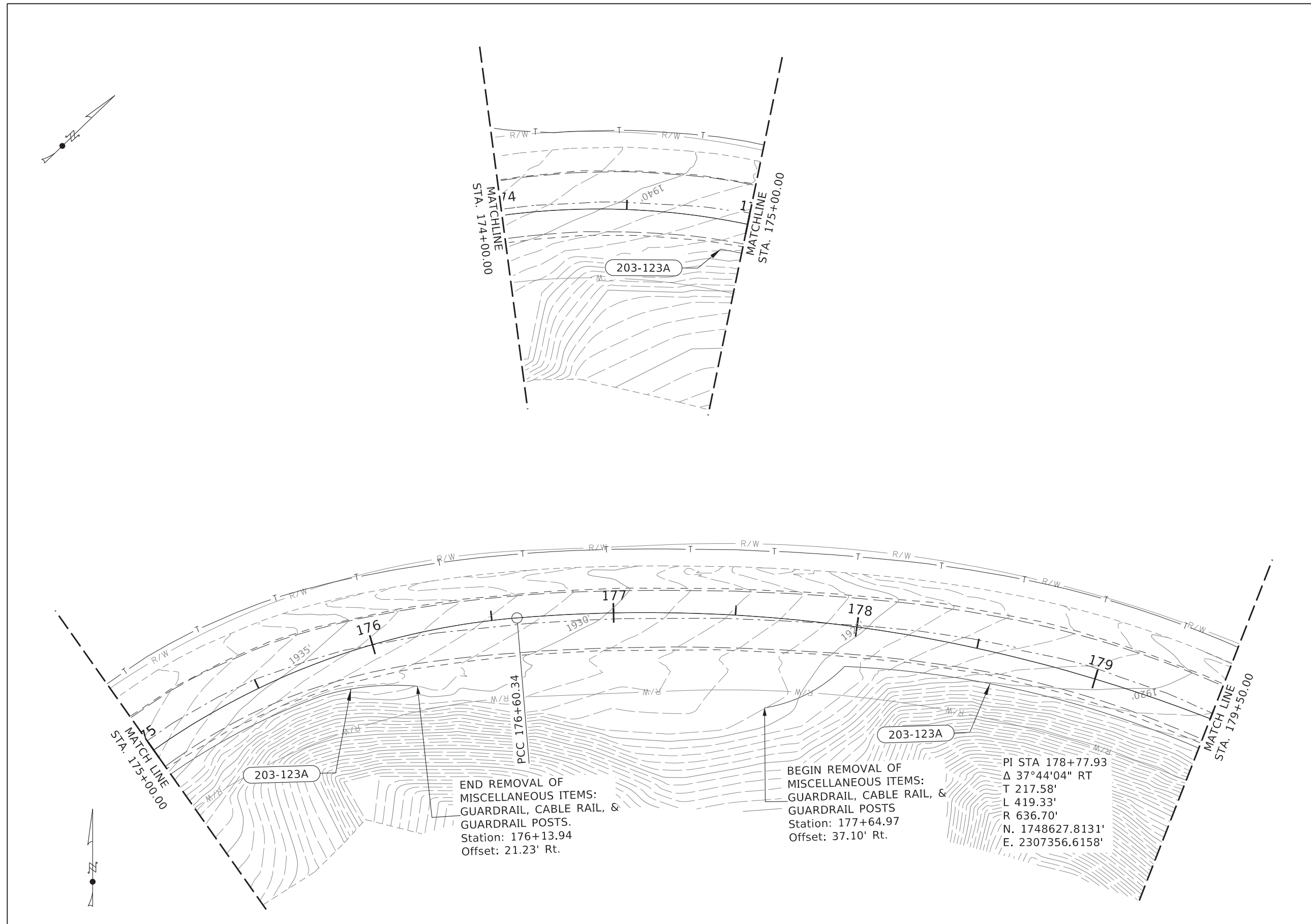


PROJECT NO.	A024(342)
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REMOVAL PLANS & PROJECT ALIGNMENT	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 166+00.00 TO STA. 174+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 43 OF 101





OPTION B	
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
9.0 FT	STA. 174+90.94, 12.10 R TO STA. 175+00.00, 12.11 R
110.0 FT	STA. 175+00.00, 12.11 R TO 176+13.94, 21.23 R
187.0 FT	STA. 177+64.97, 37.10 R TO 179+50.00, 12.95 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_020.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

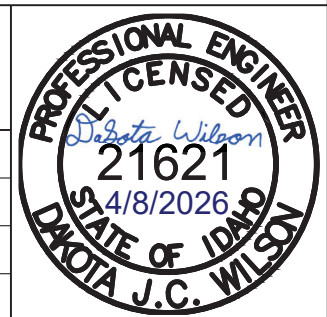
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

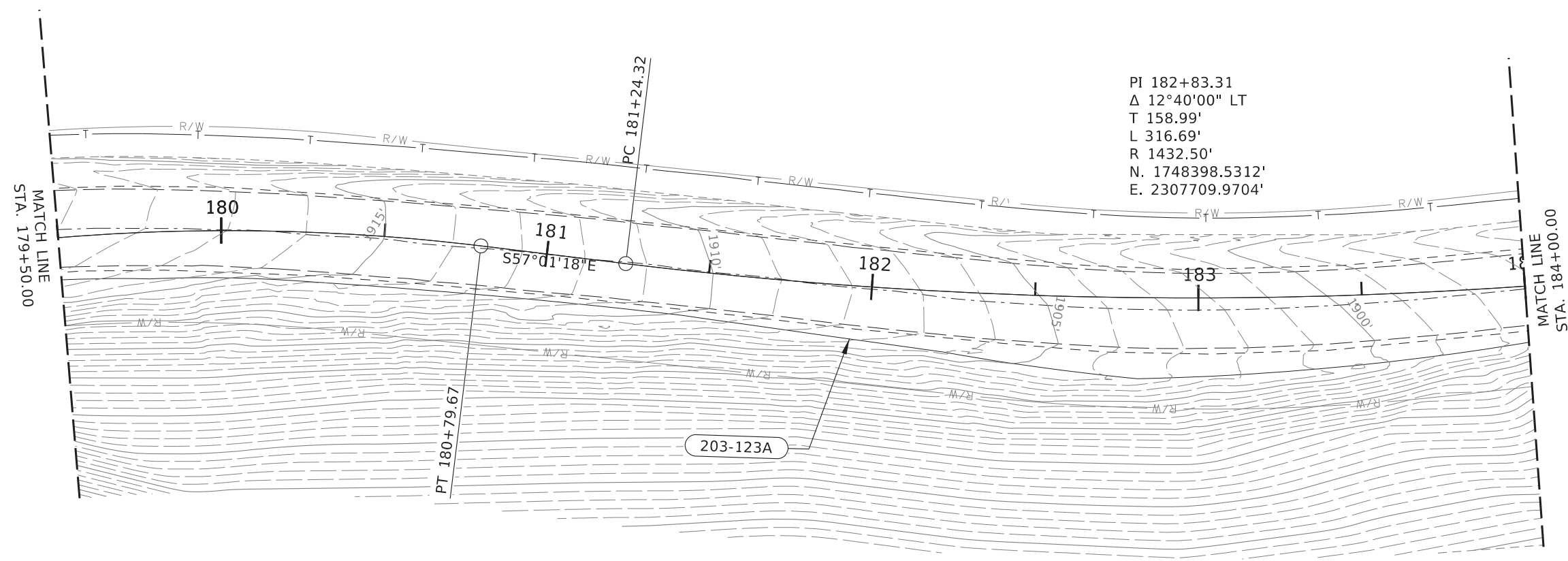
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 174+00.00 TO STA. 179+50.00

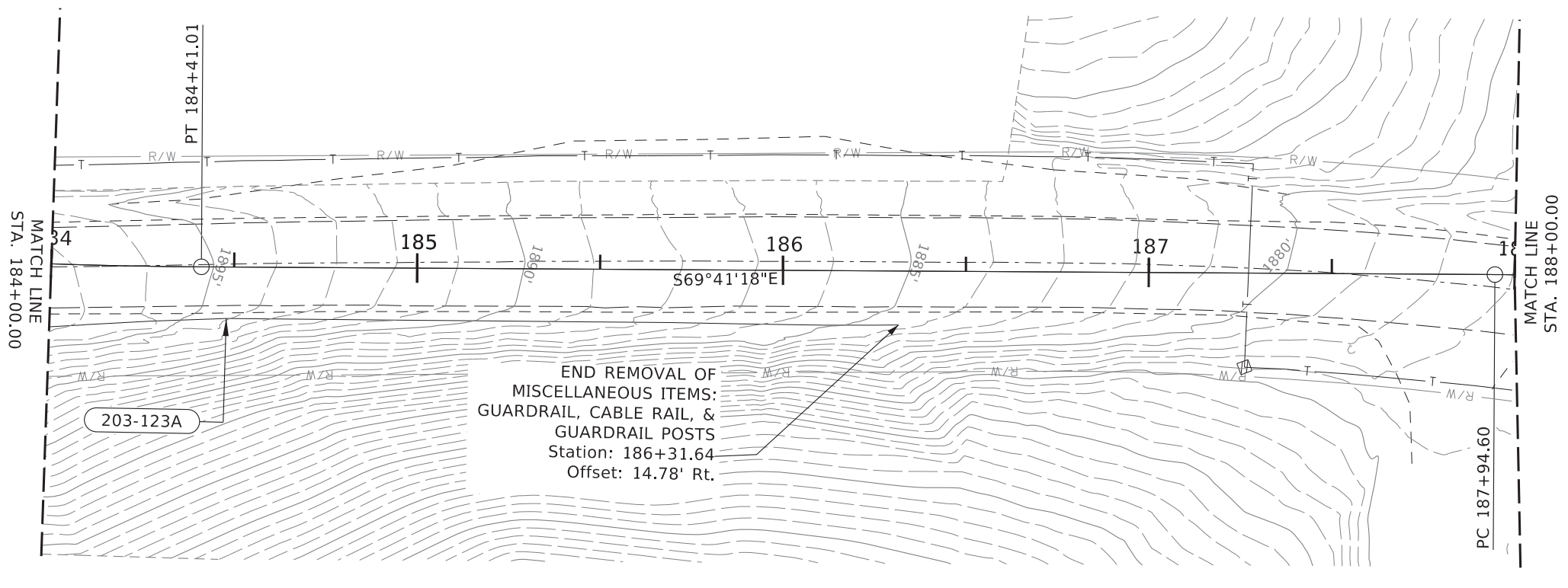
ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 44 OF 101





PI 182+83.31  
 $\Delta$  12°40'00" LT  
 T 158.99'  
 L 316.69'  
 R 1432.50'  
 N. 1748398.5312'  
 E. 2307709.9704'

OPTION B  
 203-123A REMOVAL OF MISCELLANEOUS  
 ITEMS: GUARDRAIL, CABLE  
 RAIL, & GUARDRAIL POSTS  
 452.0 FT STA. 179+50.00, 12.95 R TO  
 184+00.00, 17.26 R  
 232.0 FT STA. 184+00.00, 17.26 R TO  
 186+31.64, 14.78 R



END REMOVAL OF  
 MISCELLANEOUS ITEMS:  
 GUARDRAIL, CABLE RAIL, &  
 GUARDRAIL POSTS  
 Station: 186+31.64  
 Offset: 14.78' Rt.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
 SMGC  
 DESIGN CHECKED  
 DJW  
 DETAILED  
 SMGC  
 DRAWING CHECKED  
 JRW

SCALES SHOWN  
 ARE FOR 11" X 17"  
 PRINTS ONLY  
 CADD FILE NAME  
 24342\_REM\_021.dgn  
 DRAWING DATE:  
 OCTOBER 2024

**IDAHO  
 TRANSPORTATION  
 DEPARTMENT**

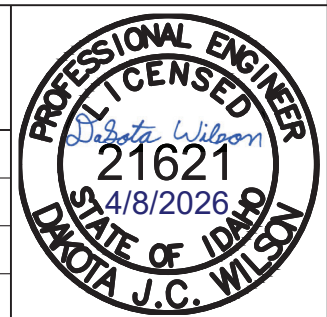
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

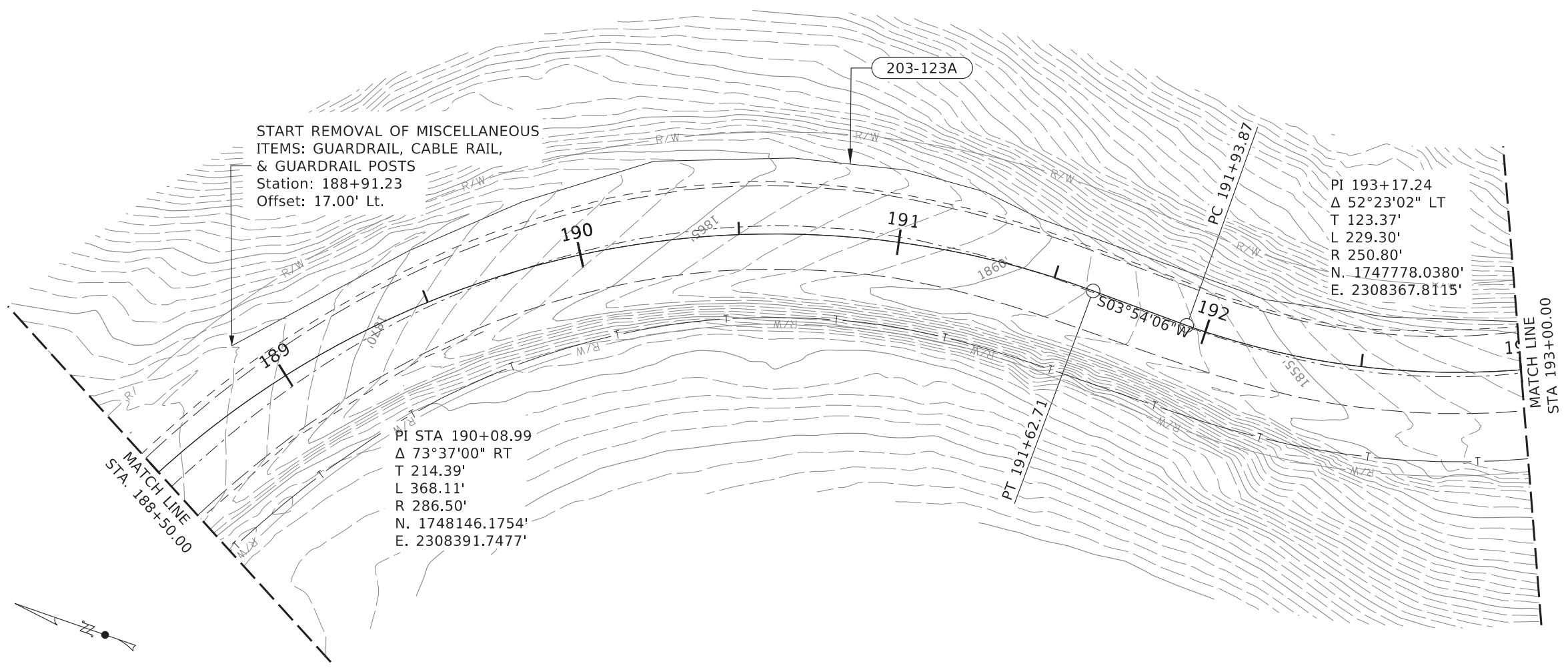
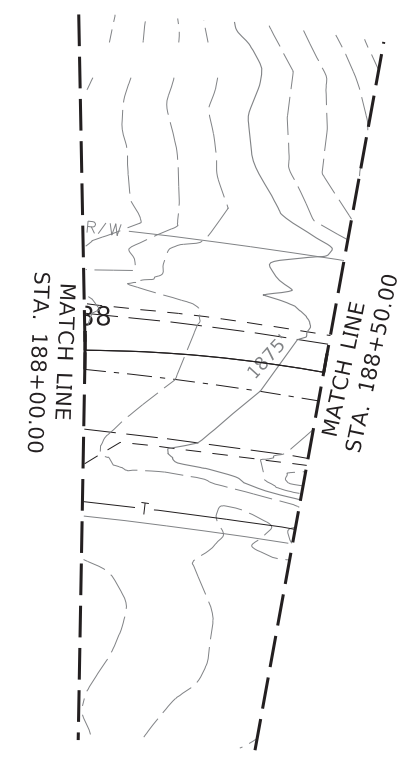
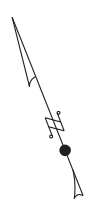
PROJECT NO.  
 A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 NEZ PERCE CO  
 STA. 179+50.00 TO STA. 188+00.00

**ENGLISH**  
 COUNTY  
 NEZ PERCE  
 KEY NUMBER  
 24342  
 SHEET 45 OF 101



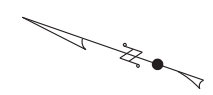
BASE SET  
 203-123A REMOVAL OF MISCELLANEOUS  
 ITEMS: GUARDRAIL, CABLE  
 RAIL, & GUARDRAIL POSTS  
 423.0 FT STA. 188+91.23, 17.00 L TO  
 193+00.00, 15.10 L



START REMOVAL OF MISCELLANEOUS  
 ITEMS: GUARDRAIL, CABLE RAIL,  
 & GUARDRAIL POSTS  
 Station: 188+91.23  
 Offset: 17.00' Lt.

PI 193+17.24  
 $\Delta$  52°23'02" LT  
 T 123.37'  
 L 229.30'  
 R 250.80'  
 N. 1747778.0380'  
 E. 2308367.8115'

PI STA 190+08.99  
 $\Delta$  73°37'00" RT  
 T 214.39'  
 L 368.11'  
 R 286.50'  
 N. 1748146.1754'  
 E. 2308391.7477'



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
 SMGC  
 DESIGN CHECKED  
 DJW  
 DETAILED  
 SMGC  
 DRAWING CHECKED  
 JRW

SCALES SHOWN  
 ARE FOR 11" X 17"  
 PRINTS ONLY  
 CADD FILE NAME  
 24342\_REM\_022.dgn  
 DRAWING DATE:  
 OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

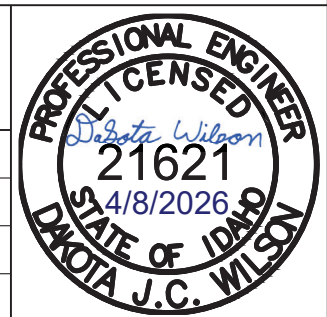
**J-U-B ENGINEERS, INC.**

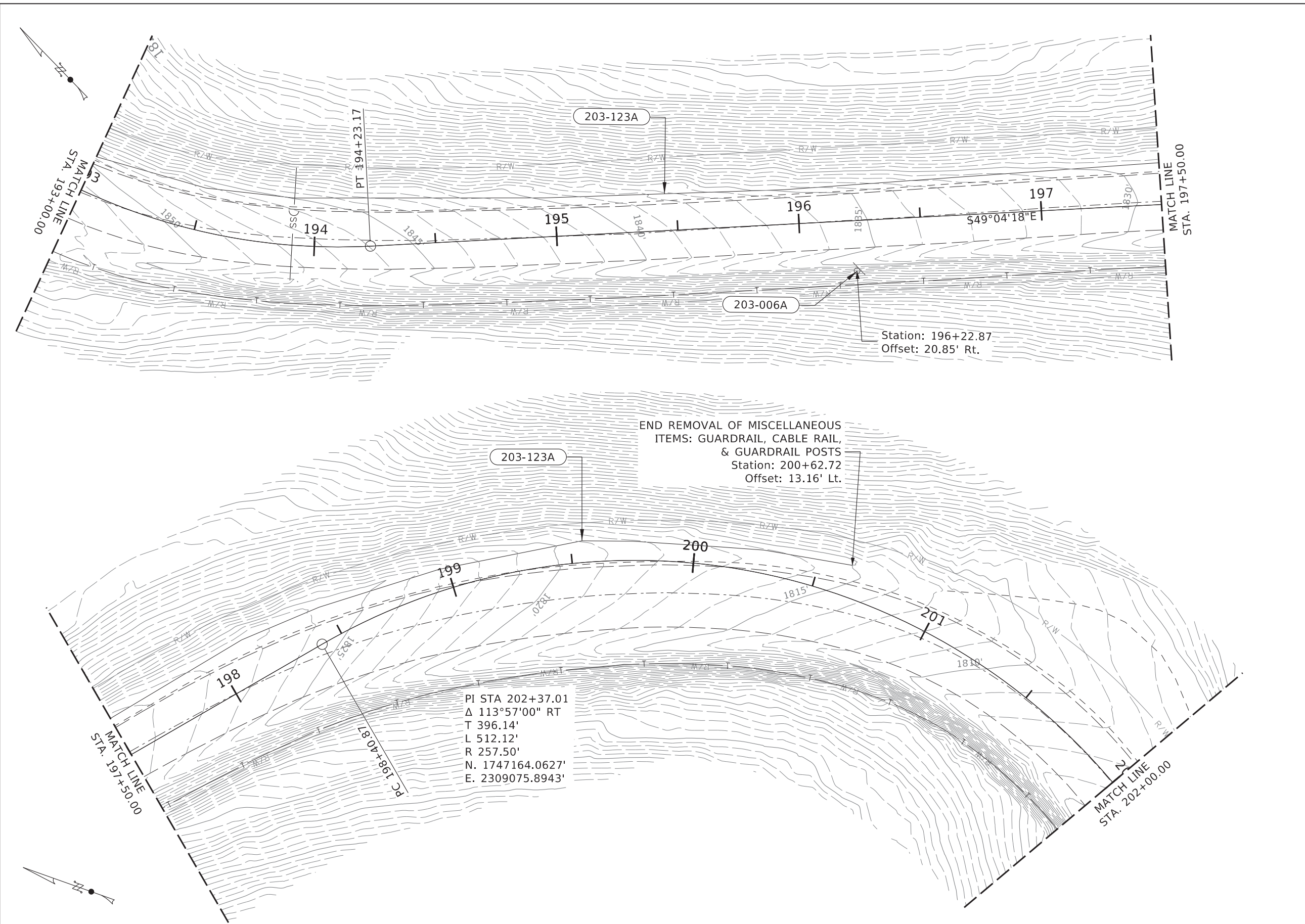


PROJECT NO.  
 A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
 OLD SPIRAL HWY GUARDRAIL, PH 1  
 NEZ PERCE CO  
 STA. 188+00.00 TO STA. 193+00.00

**ENGLISH**  
 COUNTY  
 NEZ PERCE  
 KEY NUMBER  
 24342  
 SHEET 46 OF 101





BASE SET	
203-006A	REMOVAL OF SIGN
1 EA	STA. 196+22.87, 20.85 R
203-123A	REMOVAL OF MISCELLANEOUS ITEMS: GUARDRAIL, CABLE RAIL, & GUARDRAIL POSTS
441.5 FT	STA. 193+00.00, 115.05 L TO 197+50.00, 17.22 R
322.0 FT	STA. 197+50.00, 17.22 R TO 200+62.72, 13.16 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_REM_023.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

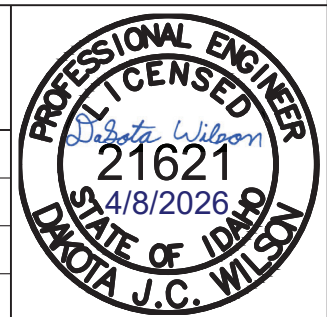
**J-U-B ENGINEERS, INC.**



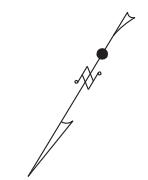
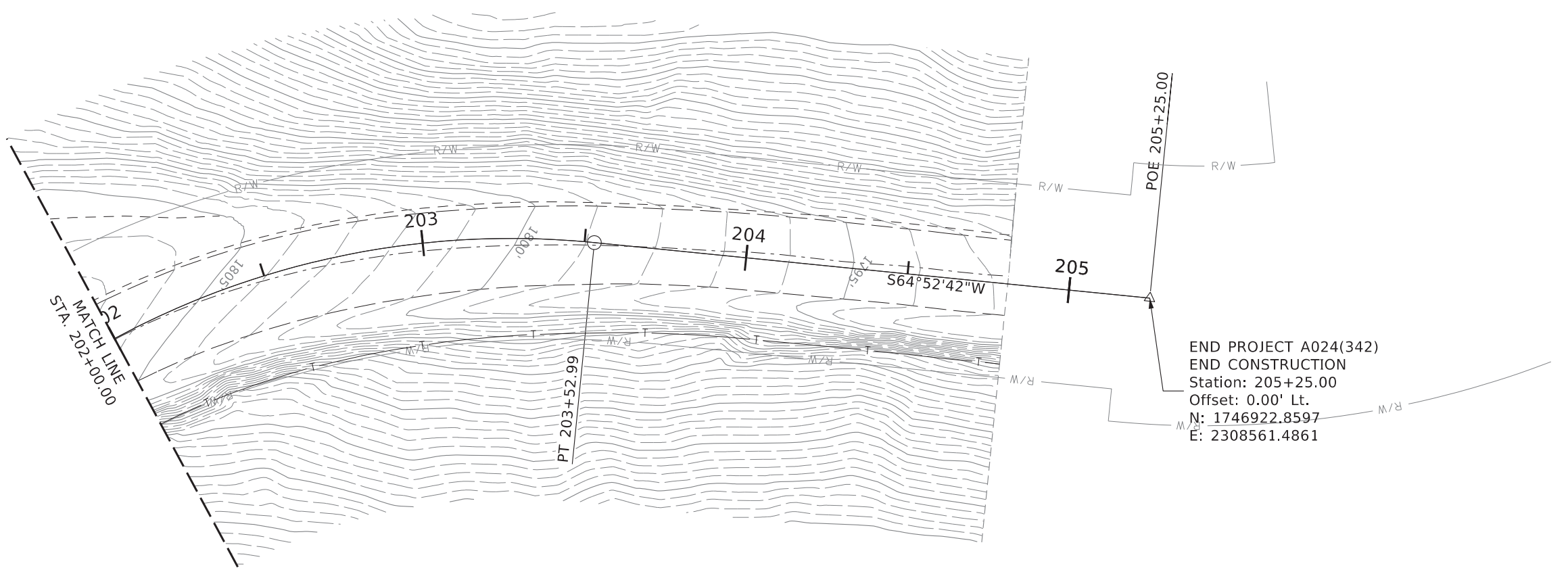
PROJECT NO.
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 193+00.00 TO STA. 202+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 47 OF 101



BASE SET  
NOTE: NO REMOVALS



END PROJECT A024(342)  
END CONSTRUCTION  
Station: 205+25.00  
Offset: 0.00' Lt.  
N: 1746922.8597  
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DESIGN CHECKED  
DJW  
DETAILED  
SMGC  
DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_REM\_024.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

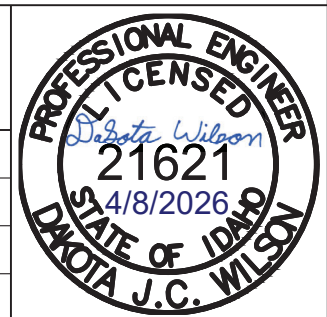
**J-U-B ENGINEERS, INC.**

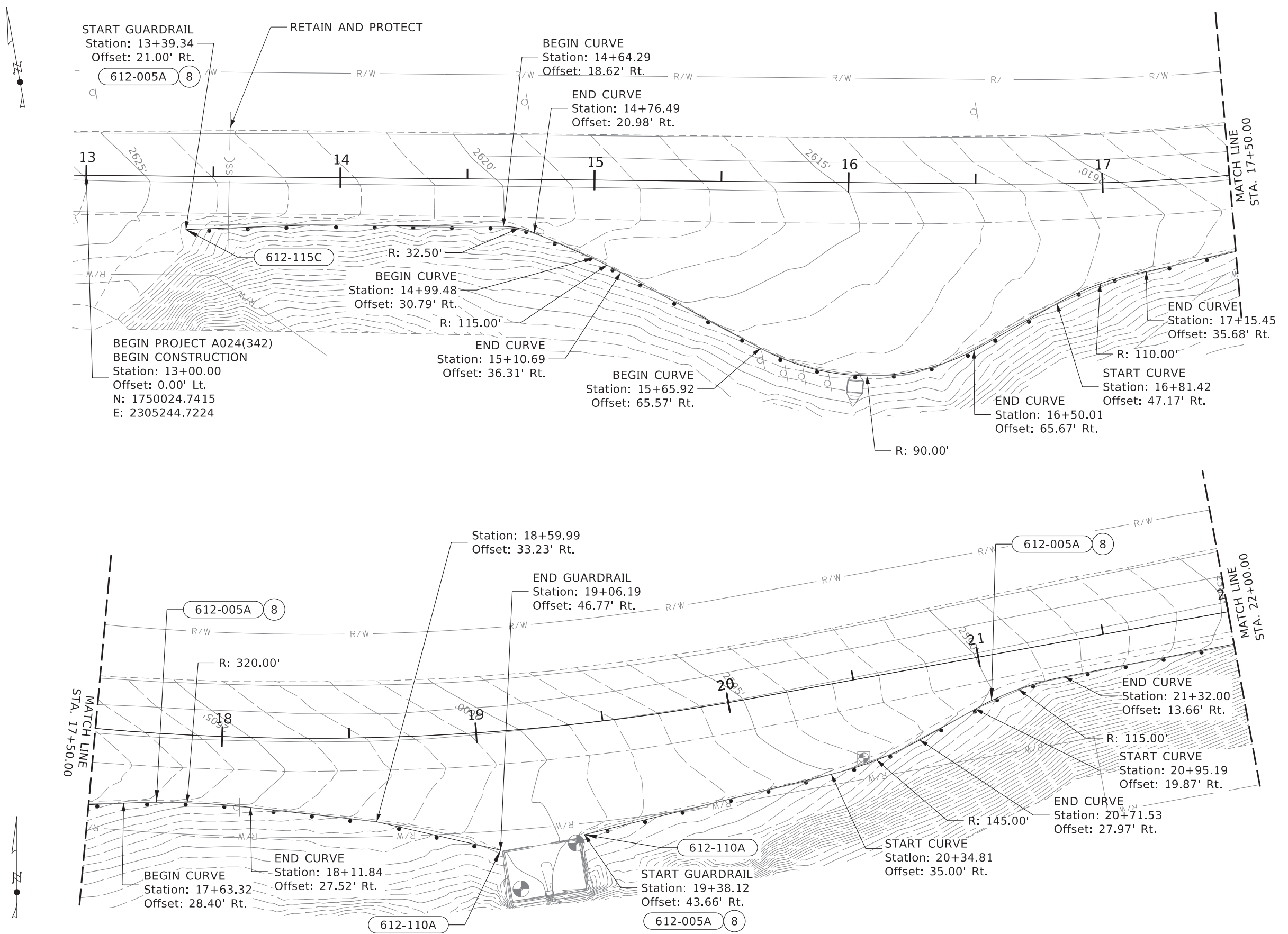


PROJECT NO.  
  
A024(342)

REMOVAL PLANS & PROJECT ALIGNMENT  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 202+00.00 TO STA. 205+25.00

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 48 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
436.0 FT	STA. 13+39.34, 21.00 R TO STA. 17+50.00, 30.17 R
164.0 FT	STA. 17+50.00, 30.17 R TO STA. 19+06.19, 46.77 R
268.0 FT	STA. 19+38.12, 43.66 R TO STA. 22+00.00, 13.01 R
612-110A	GUARDRAIL ANCHOR
1 EA	STA 19+06.19, 46.77 R
1 EA	STA. 19+38.12, 43.66 R
612-115C	GUARDRAIL TERMINAL, TANGENT
1 EA	STA. 13+39.34, 21.00 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_001.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO TRANSPORTATION DEPARTMENT**

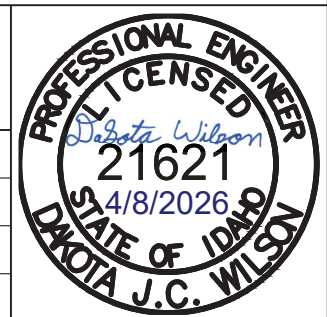
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

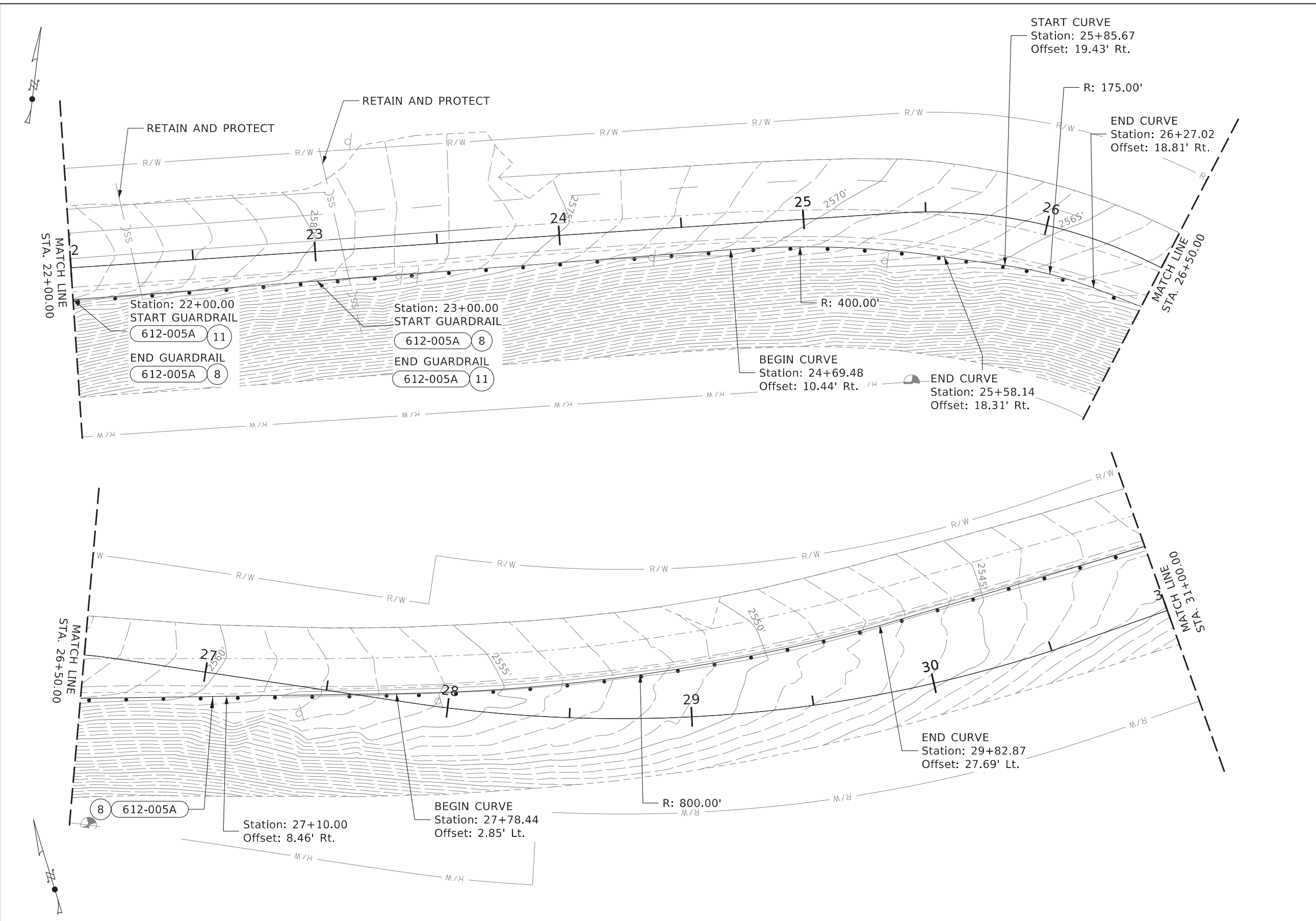
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 13+00.00 TO STA. 22+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 49 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL (11)
100.0 FT	STA. 22+00.00, 13.01 R TO STA. 23+0.00, 12.06 R
612-005A	W-BEAM GUARDRAIL (8)
340.5 FT	STA. 23+00.00, 12.06 R TO STA. 26+50.00, 17.84 R
442.0 FT	STA. 26+50.00, 17.84 R TO STA. 31+00.00, 27.67 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_002.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

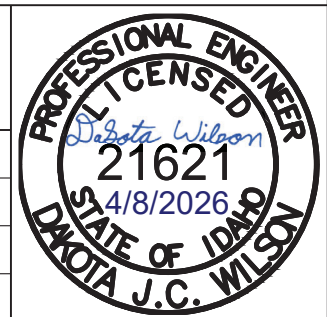
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

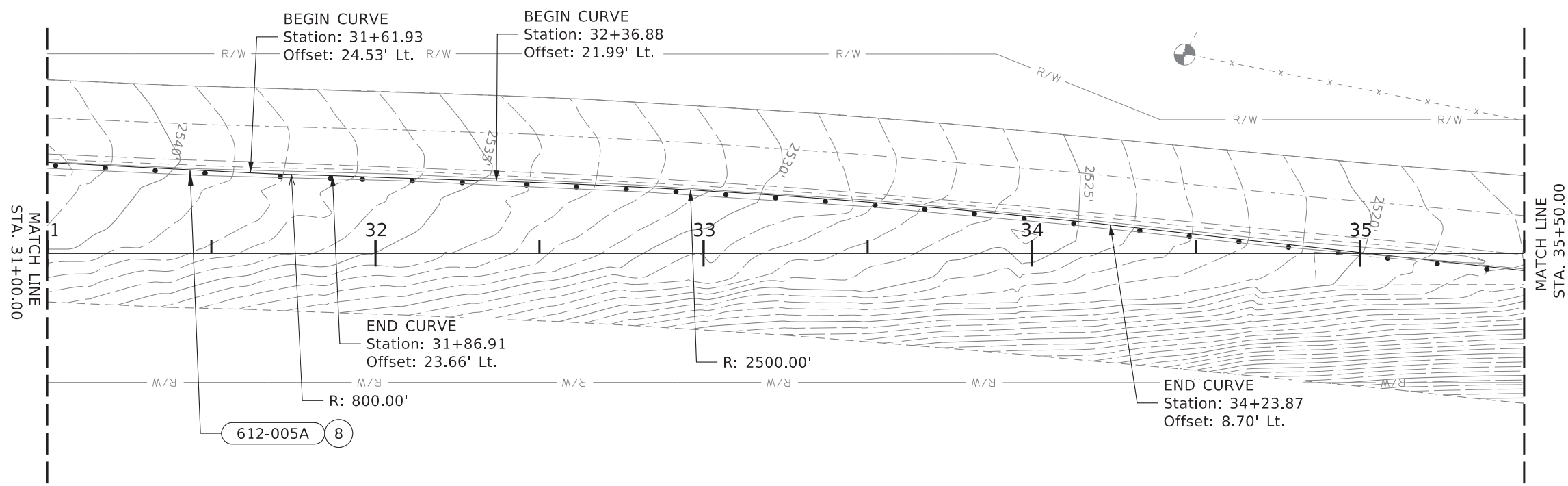
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

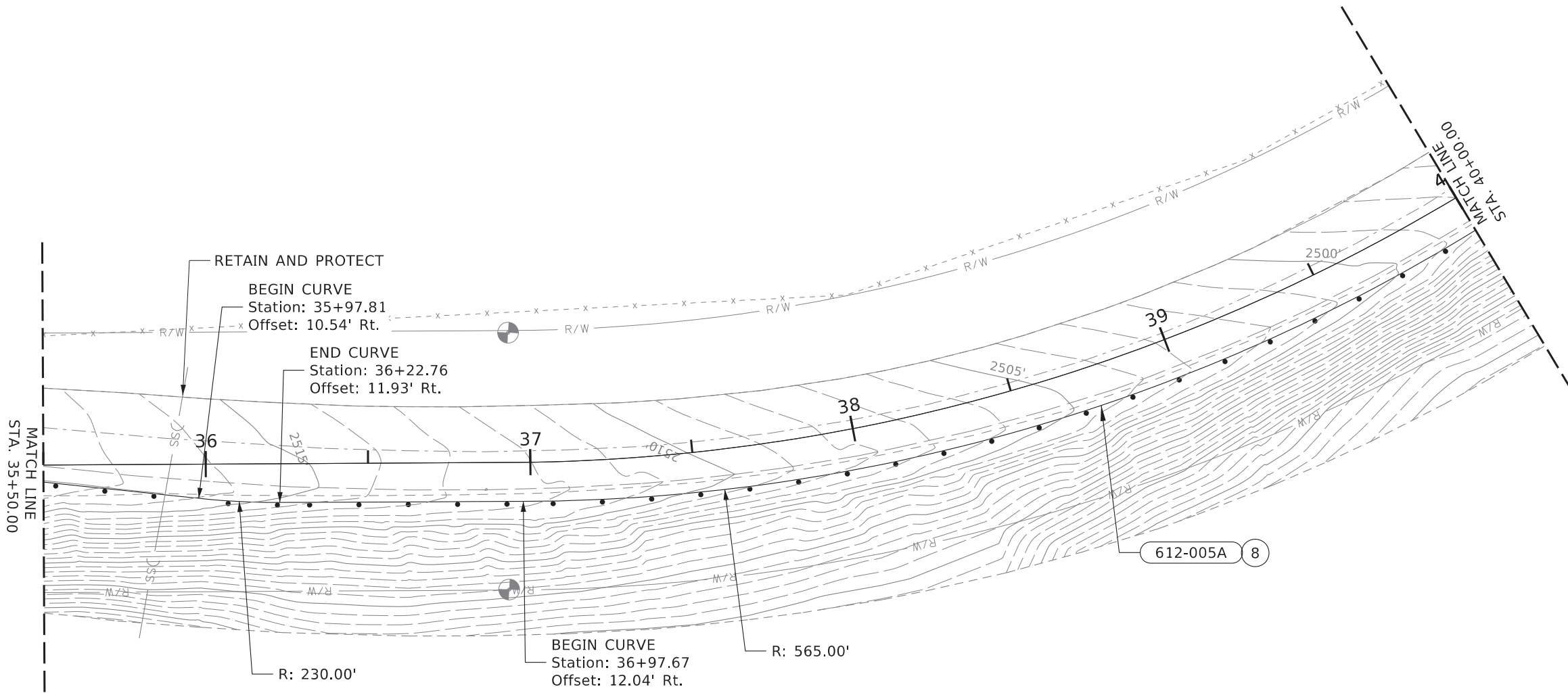
ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 22+00.00 TO STA. 31+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 50 OF 101





BASE SET	W-BEAM GUARDRAIL (8)
612-005A	STA. 31+00.00, 27.67 L TO
451.5 FT	STA. 35+50.00, 5.25 R
457.0 FT	STA. 35+50.00, 5.25 R TO
	STA. 40+00.00, 11.66 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_003.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

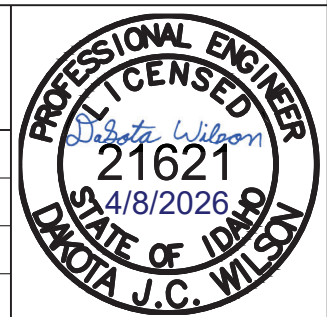
YOUR Safety-YOUR Mobility-YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

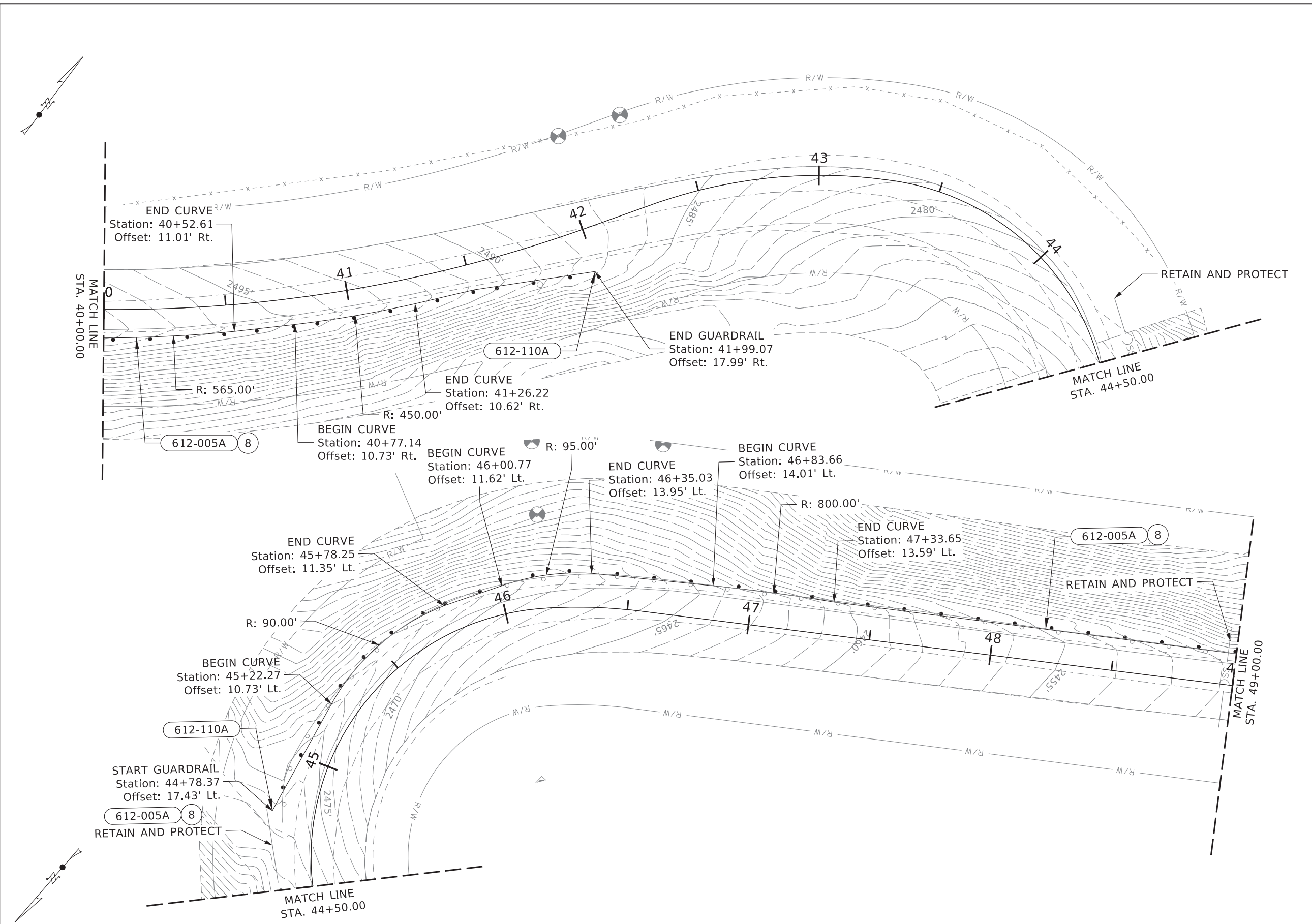
PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 31+00.00 TO STA. 40+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 51 OF 101



BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
203.0 FT	STA. 40+00.00, 11.66 R TO STA. 41+99.07, 17.99 R
441.5 FT	STA. 44+78.37, 17.43 L TO STA. 49+00.00, 13.14 L
612-110A GUARDRAIL ANCHOR	
1 EA	STA. 41+99.07, 17.99 R
1 EA	STA. 44+78.37, 17.43 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_004.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

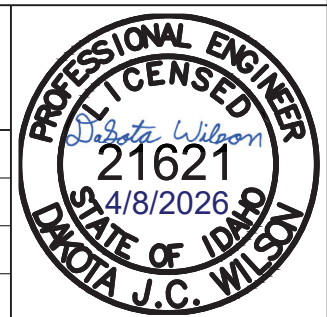
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

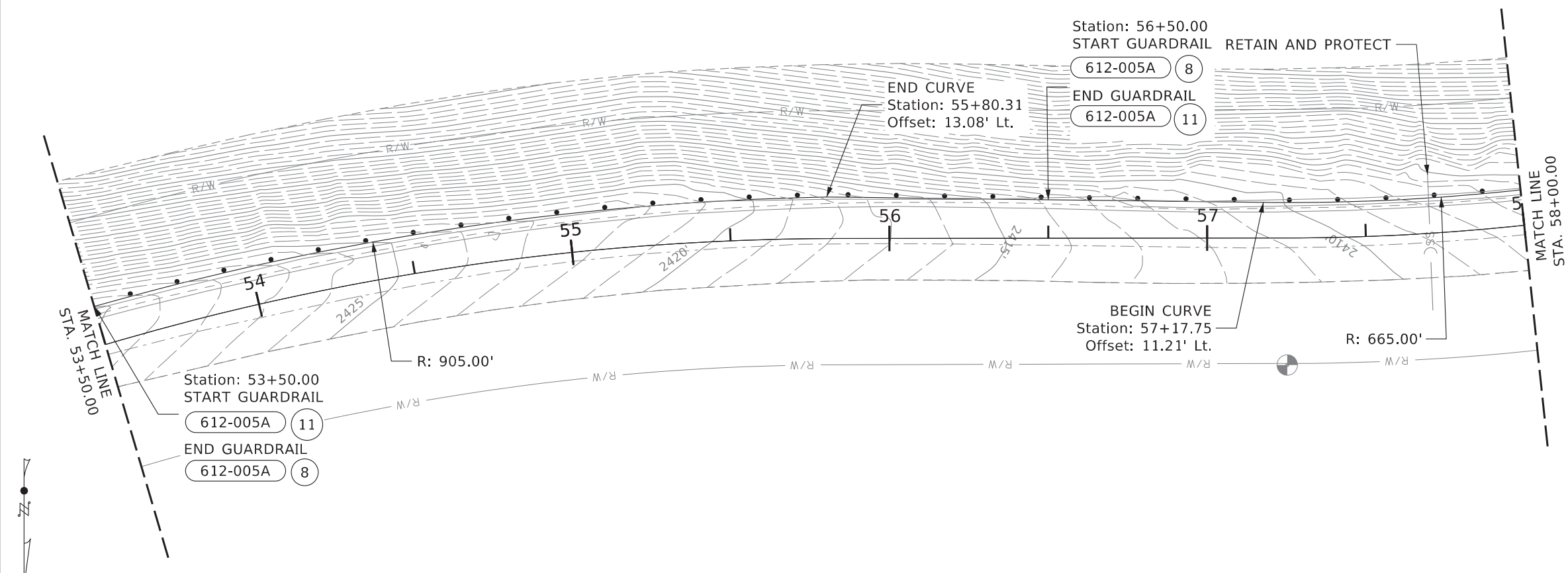
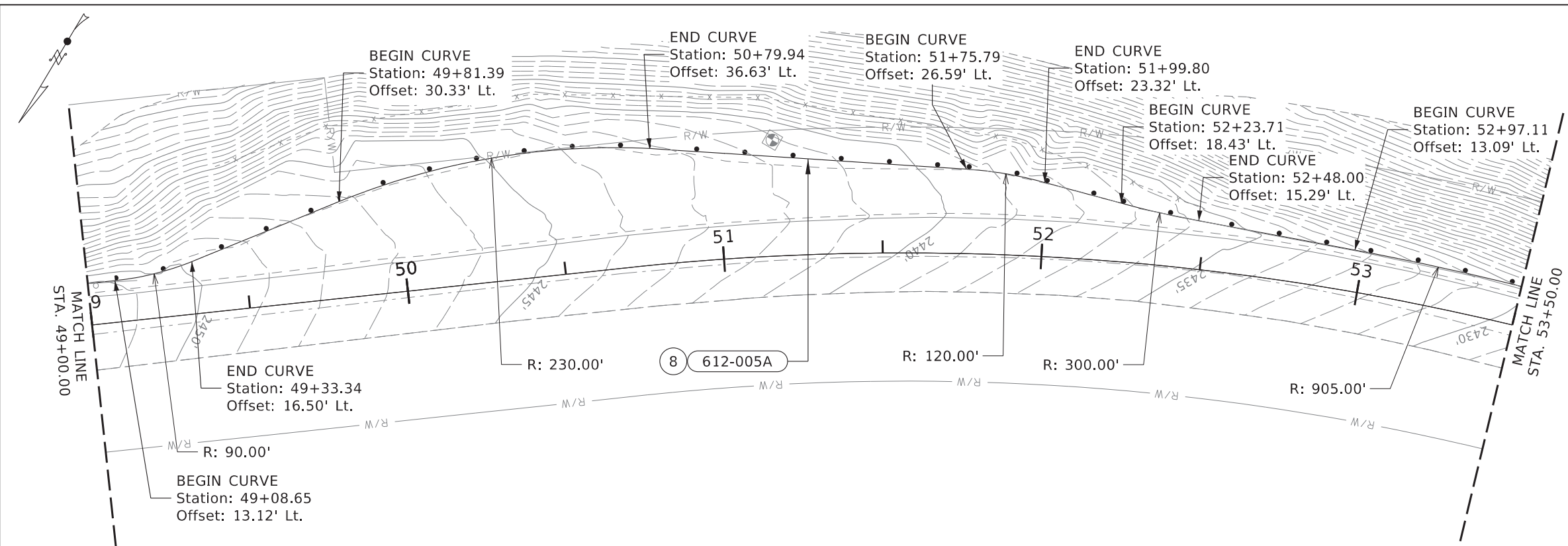
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 40+00.00 TO STA. 49+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 52 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
463.0 FT	STA. 49+00.00, 13.14 L TO STA. 53+50.00, 12.47 L
152.5 FT	STA. 56+50.00, 12.12 L TO STA. 58+00.00, 11.23 L
612-005A	W-BEAM GUARDRAIL (11)
300.0 FT	STA. 53+50.00, 12.47 L TO STA. 56+50.00, 12.12 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_005.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**



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**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

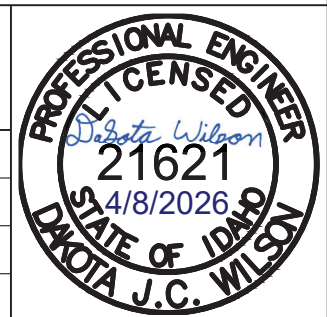
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 49+00.00 TO STA. 58+00.00

**ENGLISH**

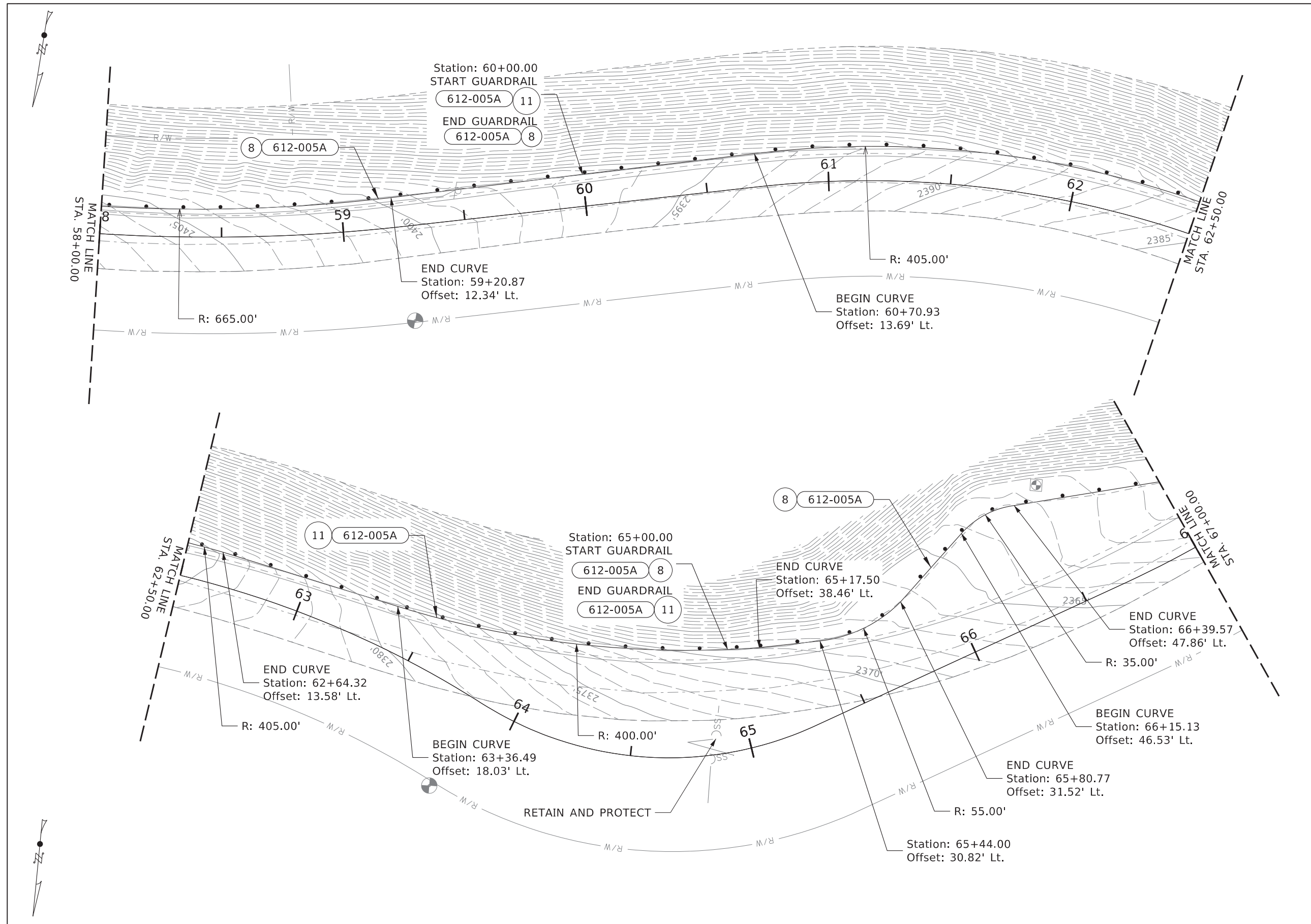
COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 53 OF 101



BASE SET	W-BEAM GUARDRAIL (8)
612-005A	STA. 58+00.00, 11.23 L TO STA. 60+00.00, 13.06 L
198.0 FT	STA. 60+00.00, 13.06 L TO STA. 65+00.00, 41.57 L
198.0 FT	STA. 65+00.00, 41.57 L TO STA. 67+00.00, 30.70 L
612-005A	W-BEAM GUARDRAIL (11)
256.0 FT	STA. 60+00.00, 13.06 L TO STA. 62+50.00, 13.73 L
227.0 FT	STA. 62+50.00, 13.73 L TO STA. 65+00.00, 41.57 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_006.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

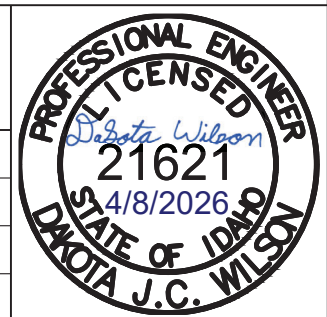
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

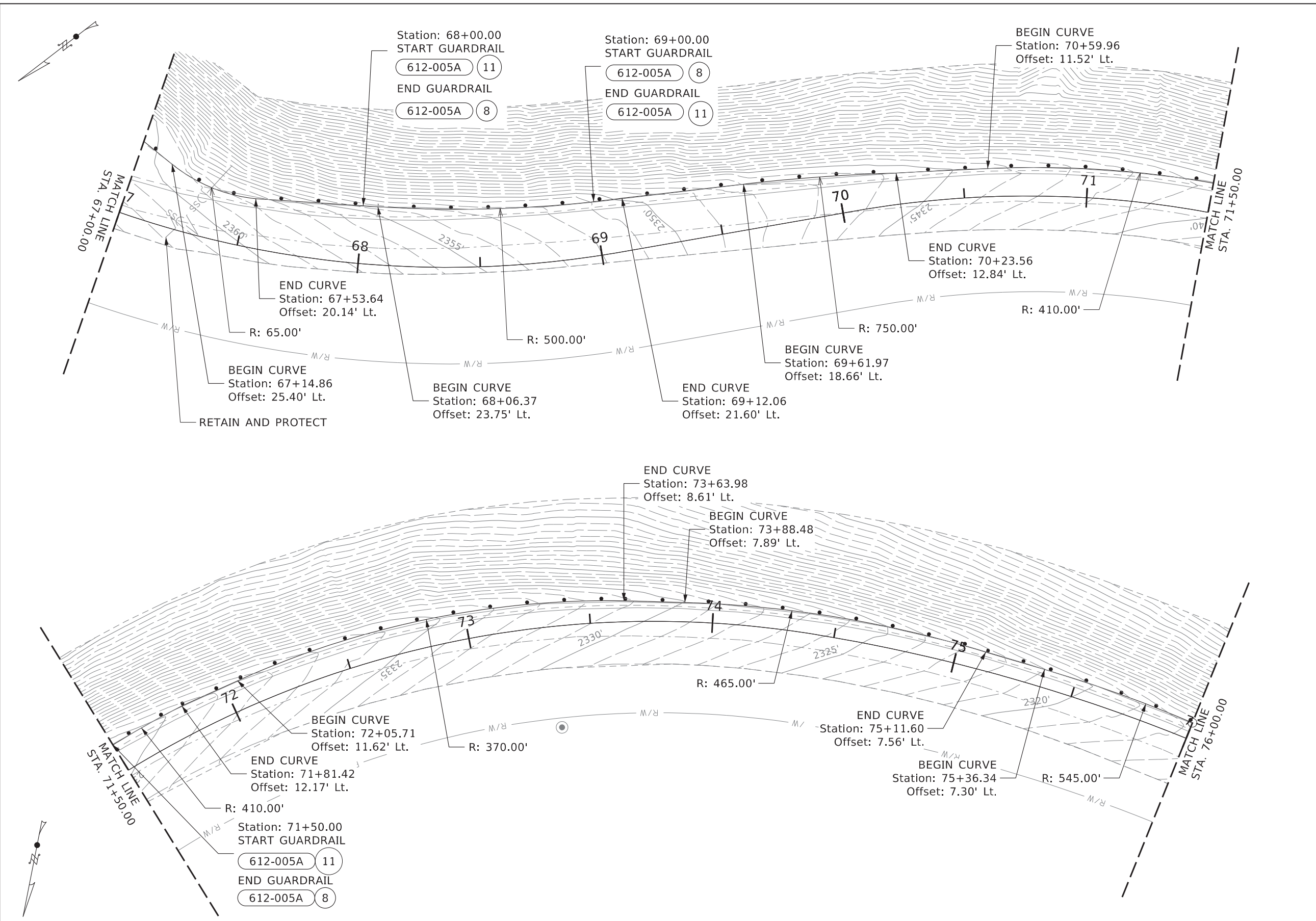
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 58+00.00 TO STA. 67+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 54 OF 101





BASE SET	
612-005A 96.5 FT	W-BEAM GUARDRAIL (8) STA. 67+00.00, 30.70 L TO STA. 68+00.00, 23.66 L
255.0 FT	STA. 69+00.00, 22.13 L TO STA. 71+50.00, 12.10 L

612-005A W-BEAM GUARDRAIL (11)	
94.0 FT	STA. 68+00.00, 23.66 L TO STA. 69+00.00, 22.13 L
452.5 FT	STA. 71+50.00, 12.10 L TO STA. 76+00.00, 6.82 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_007.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

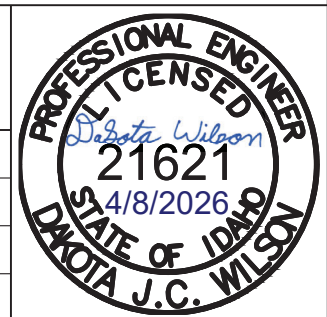
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

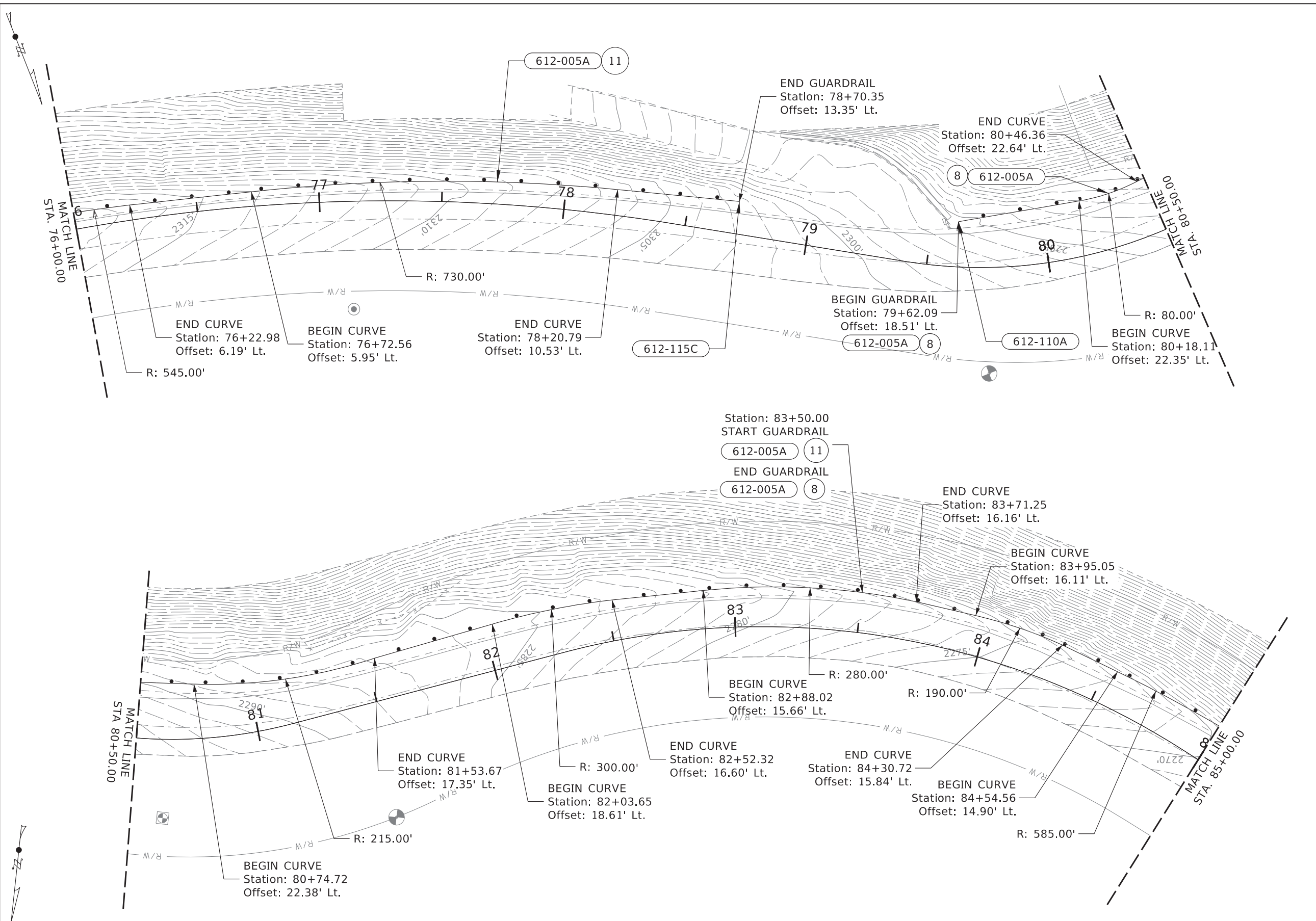
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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ROADWAY PLANS AND UTILITY SHEET  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 67+00.00 TO STA. 76+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 55 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL (8)
78.5 FT	STA. 79+62.09, 18.51 L TO STA. 80+50.00, 22.81 L
299.5 FT	STA. 80+50.00, 22.81 L TO STA. 83+50.00, 16.46 L
612-005A	W-BEAM GUARDRAIL (11)
273.5 FT	STA. 76+00.00, 6.82 L TO STA. 78+70.35, 13.35 L
156.0 FT	STA. 83+50.00, 16.46 L TO STA. 85+00.00, 16.14 L
612-110A	GUARDRAIL ANCHOR
1 EA	STA. 79+62.09, 18.51 L
612-115C	GUARDRAIL TERMINAL, TANGENT
1 EA	STA. 78+70.35, 13.35 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_008.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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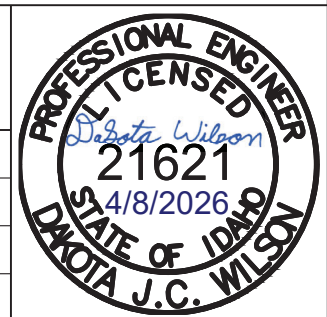
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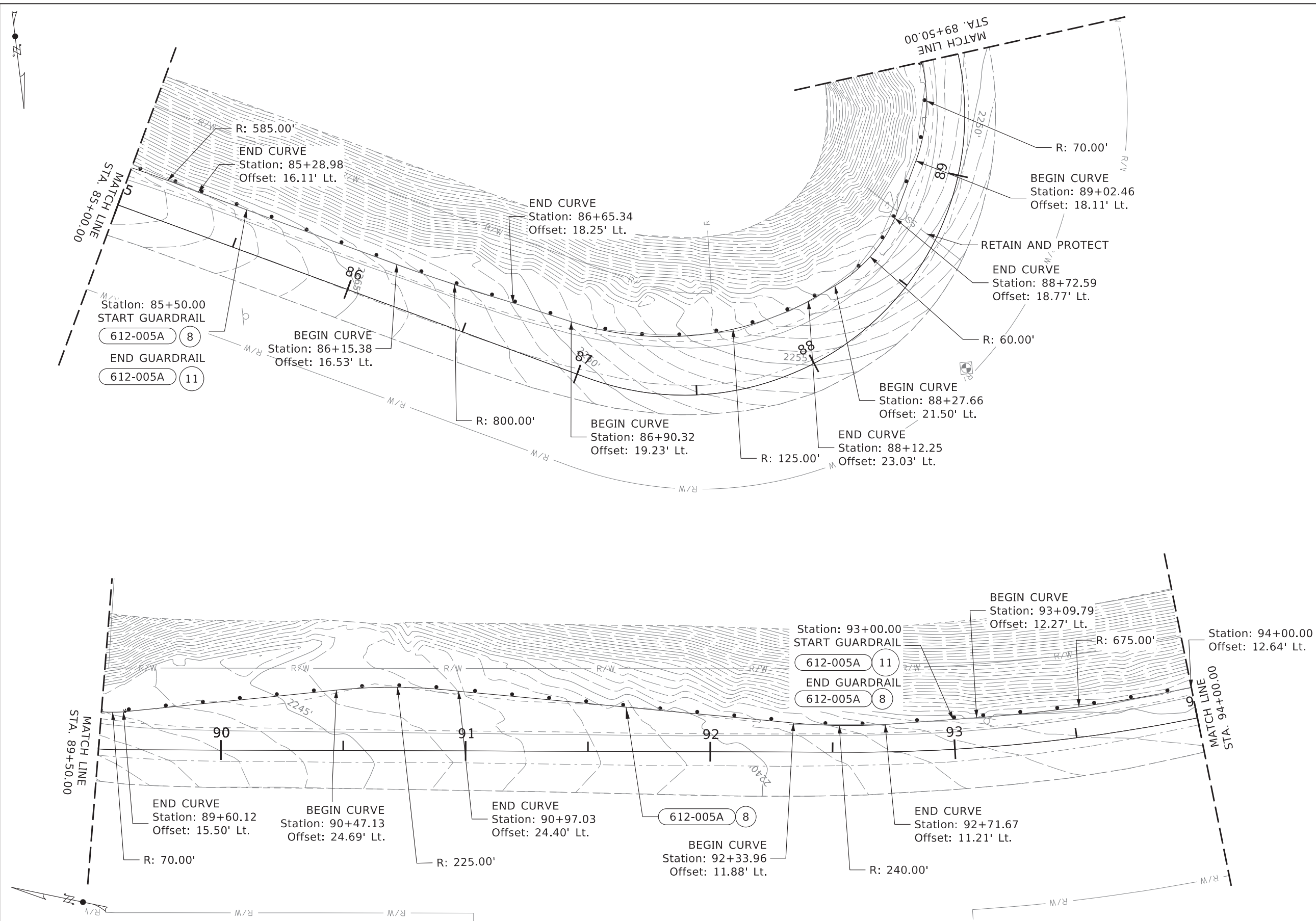


PROJECT NO.
A024(342)

ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 76+00.00 TO STA. 85+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 56 OF 101





BASE SET	
612-005A 356.5 FT	W-BEAM GUARDRAIL (8) STA. 85+50.00, 16.33 L TO STA. 89+50.00, 15.19 L
359.0 FT	STA. 89+50.00, 15.19 L TO STA. 93+00.00, 12.19 L
612-005A 50.0 FT	W-BEAM GUARDRAIL (11) STA. 85+00.00, 16.15 L TO STA. 85+50.00, 16.33 L
89.0 FT	STA. 93+00.00, 12.19 L TO STA. 94+00.00, 12.64 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_009.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

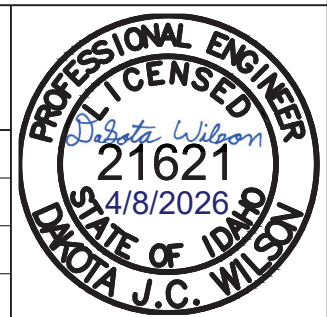
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 85+00.00 TO STA. 94+00.00

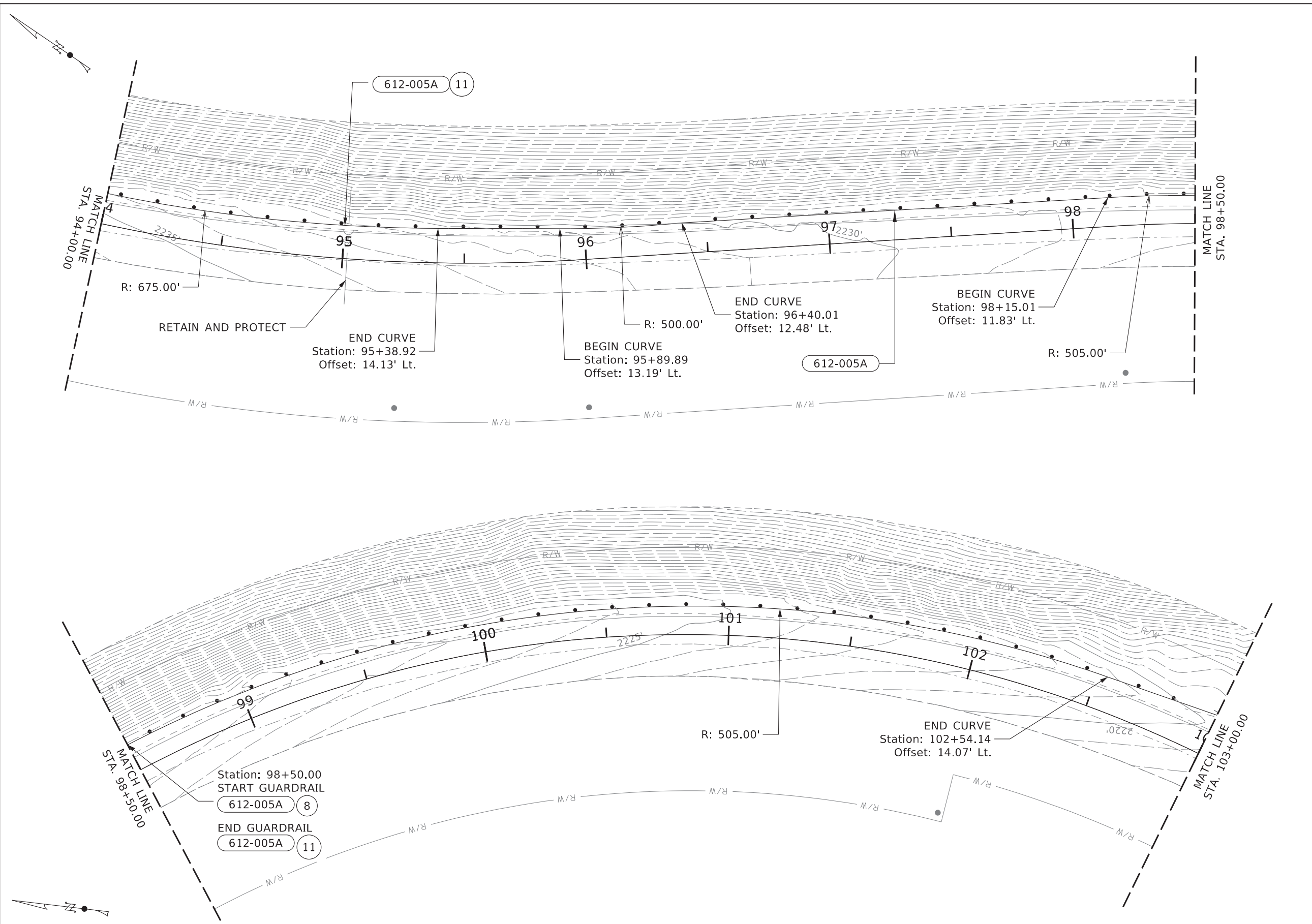
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 57 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL (8)
462.0 FT	STA. 98+50.00, 11.53 L TO STA. 103+00.00, 17.47 L
612-005A	W-BEAM GUARDRAIL (11)
447.5 FT	STA. 94+00.00, 12.64 L TO STA. 98+50.00, 11.53 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_010.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety-YOUR Mobility-YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

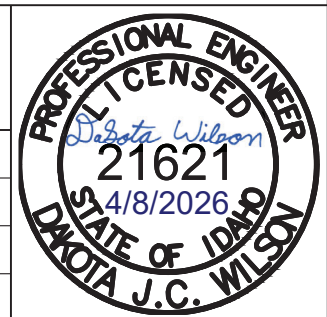
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 94+00.00 TO STA. 103+00.00

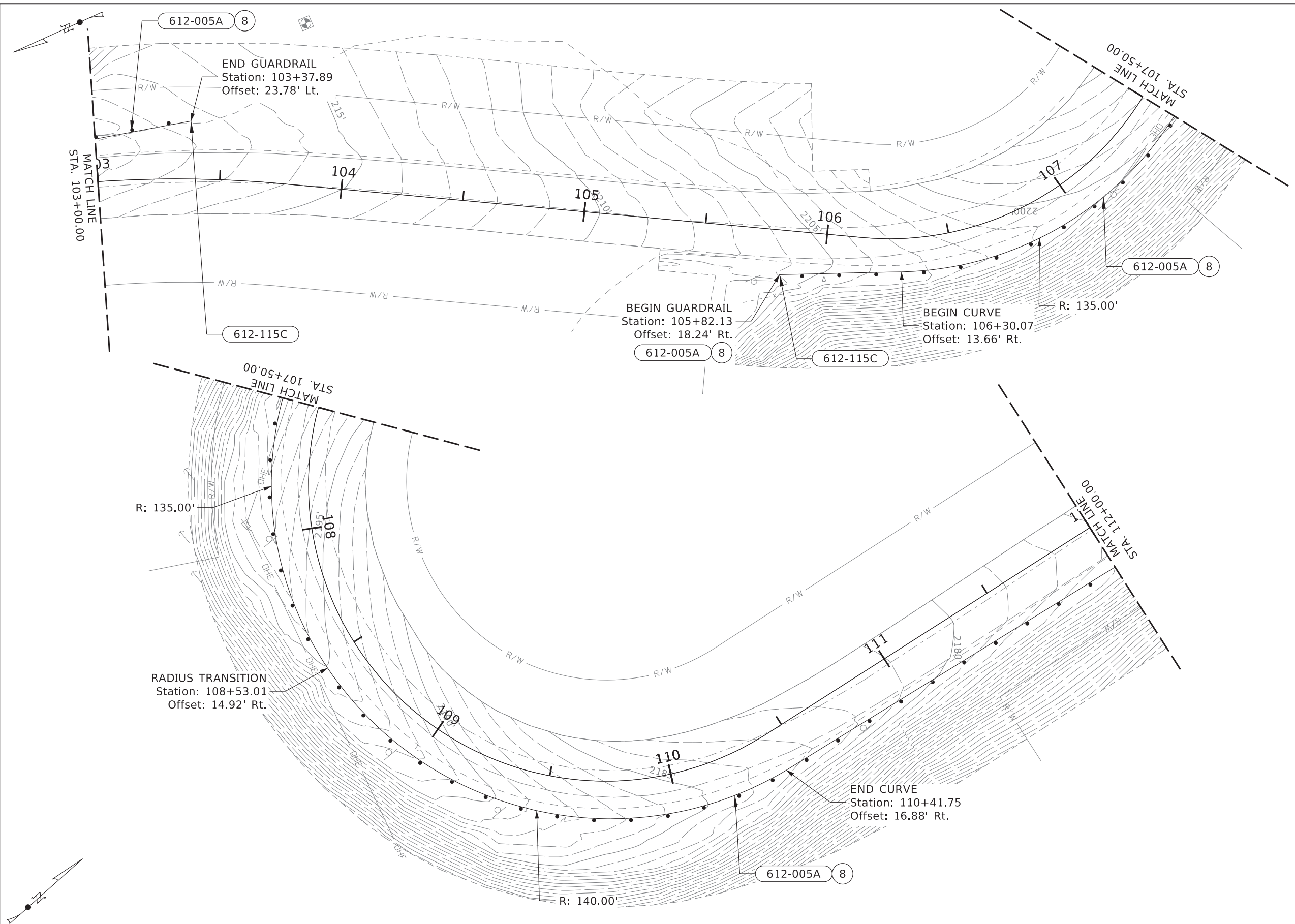
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 58 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL (8)
38.0 FT	STA. 103+00.00, 17.45 L TO STA. 103+37.89, 23.78 L
134.0 FT	STA. 105+82.13, 18.24 R TO STA. 107+50.00, 15.11 R
487.0 FT	STA. 107.50+00.00, 15.11 R TO STA. 112+00.00, 19.19 R

612-115C	GUARDRAIL TERMINAL, TANGENT
1 EA	STA. 103+37.89, 23.78 L
1 EA	STA. 105+82.13, 18.24 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_011.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

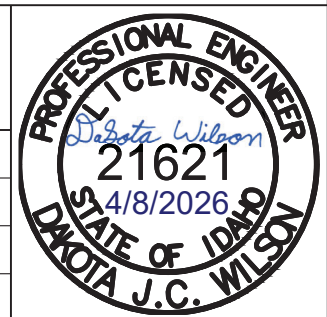
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

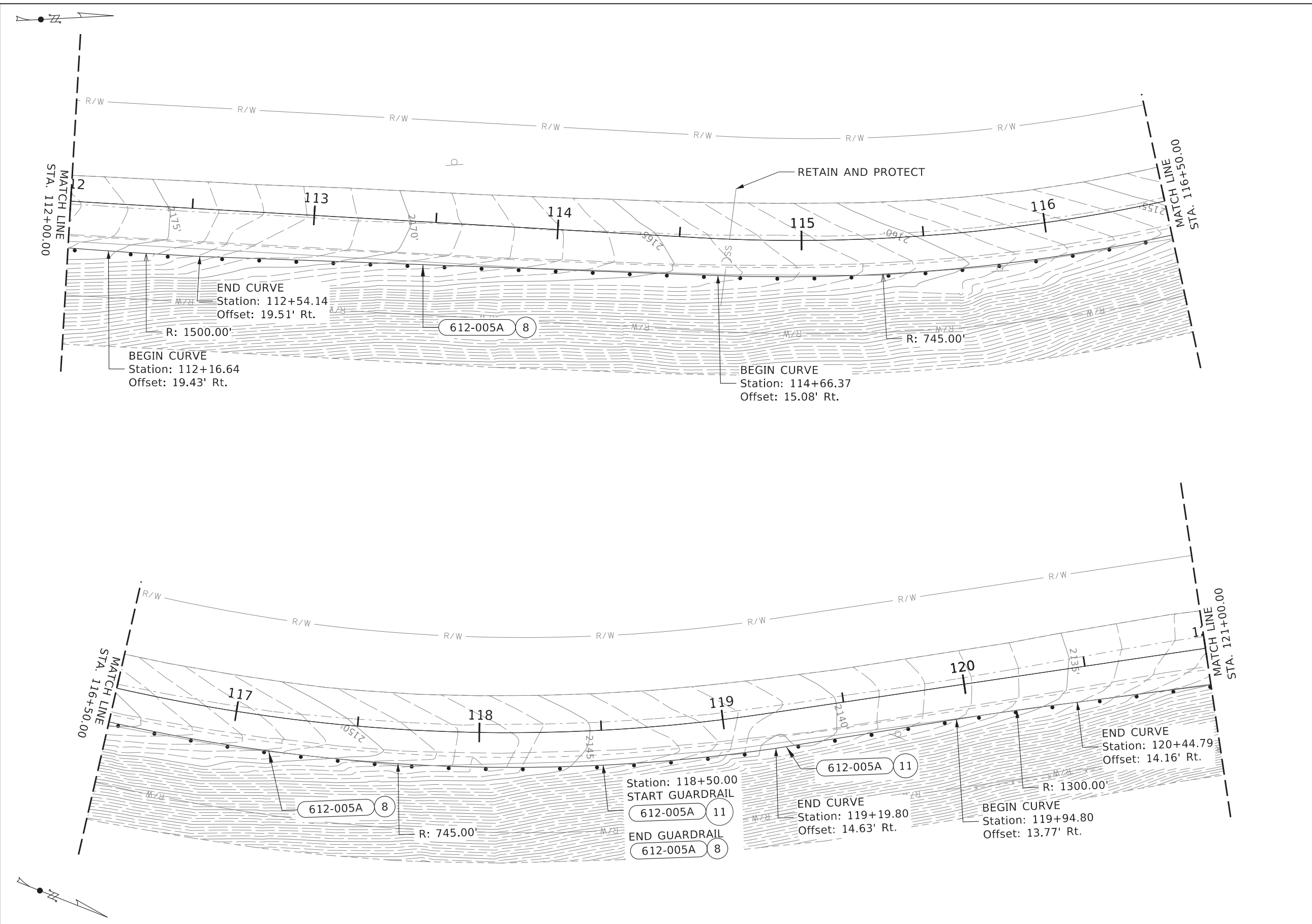
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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ROADWAY PLANS AND UTILITY SHEET  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 103+00.00 TO STA. 112+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 59 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
454.5 FT	STA. 112+00.00, 19.19 R TO STA. 116+50.00, 14.22 R
204.0 FT	STA. 116.50+00.50, 14.22 R TO STA. 118+50.00, 14.34 R
612-005A	W-BEAM GUARDRAIL (11)
251.0 FT	STA. 118+50.00, 14.34 R TO STA. 121+00.00, 15.15 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_012.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

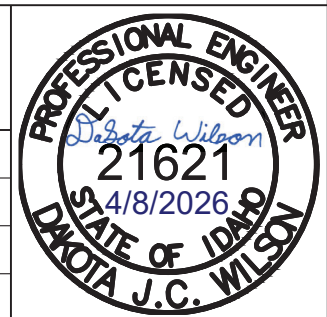
**J-U-B ENGINEERS, INC.**

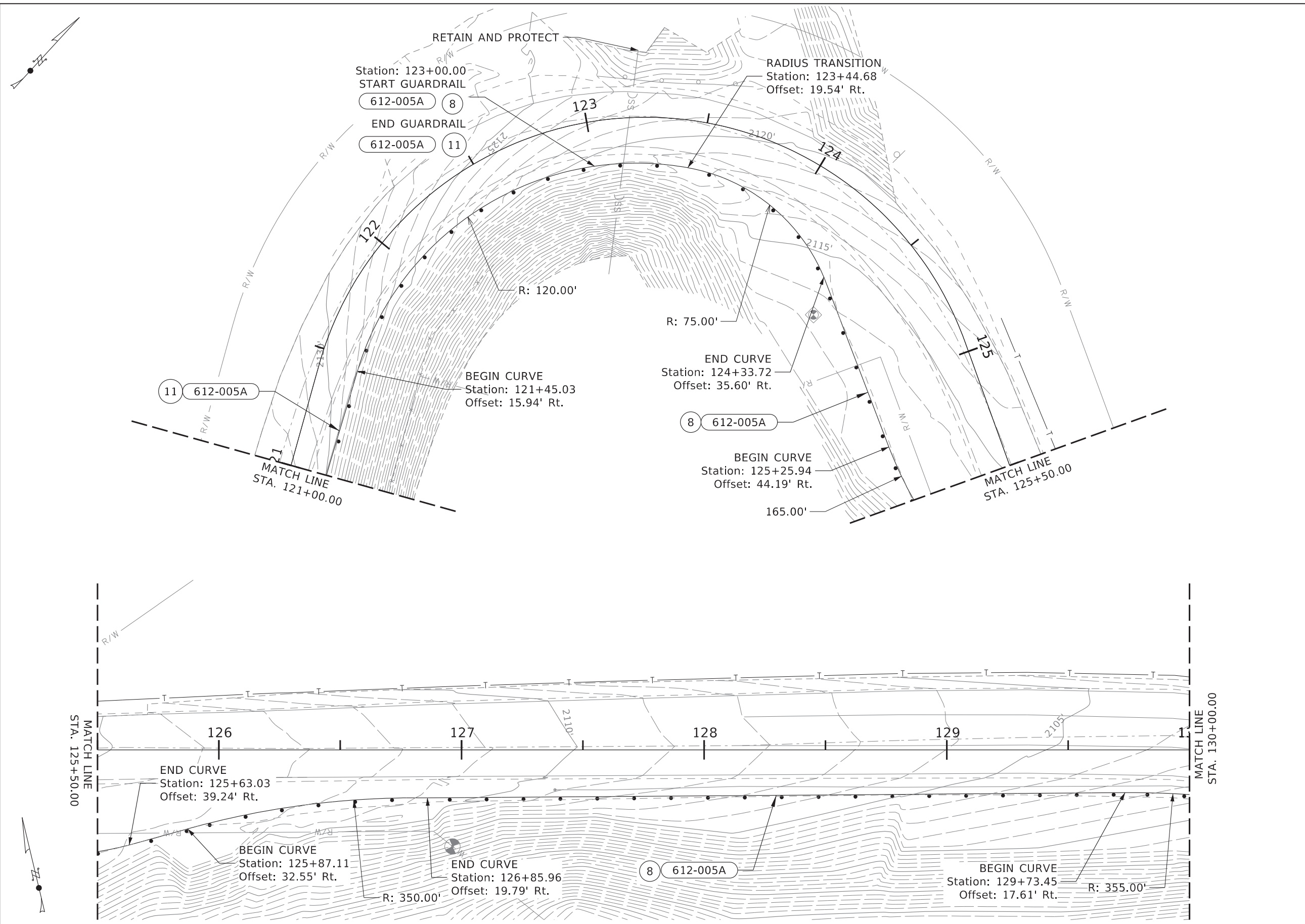


PROJECT NO.
A024(342)

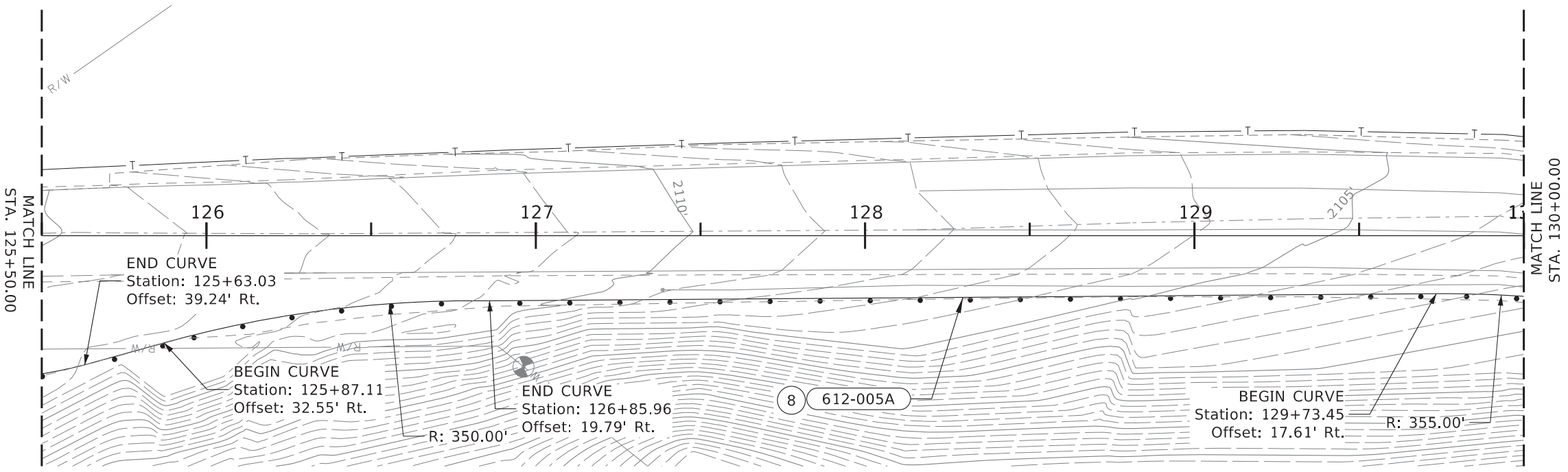
ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 112+00.00 TO STA. 121+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 60 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
215.0 FT	STA. 123+00.00, 18.33 R TO STA. 125+50.00, 41.97 R
452.5 FT	STA. 125+50.00, 41.97 R, TO STA. 130+00.00, 18.40 R
612-005A	W-BEAM GUARDRAIL (11)
179.0 FT	STA. 121+00.00, 13.66 R TO STA. 123+00.00, 18.33 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_013.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

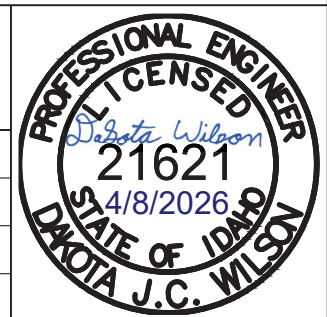
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

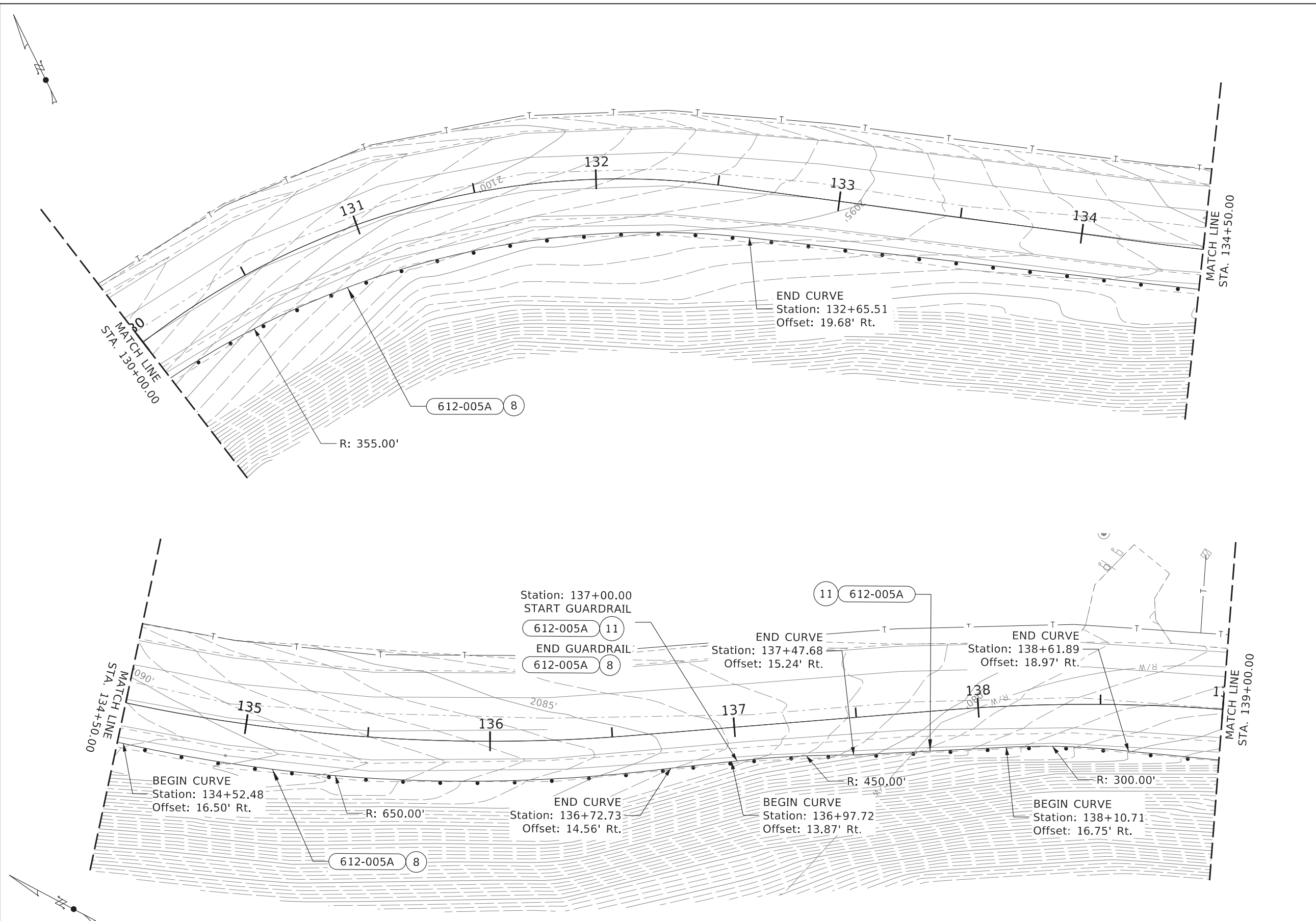
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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ROADWAY PLANS AND UTILITY SHEET  OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 121+00.00 TO STA. 130+00.00
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 61 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
433.5 FT	STA. 130+00.00, 18.40 R TO STA. 134+50.00, 16.47 R
252.5 FT	STA. 134+50.00, 16.47 R TO STA. 137+00.00, 13.81 R
612-005A	W-BEAM GUARDRAIL (11)
199.5 FT	STA. 137+00.00, 13.81 R TO STA. 139+00.00, 20.72 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_014.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

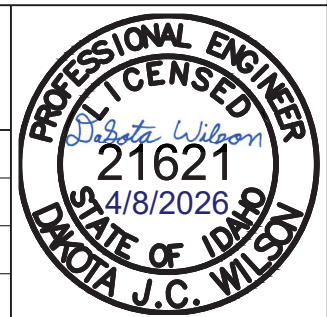


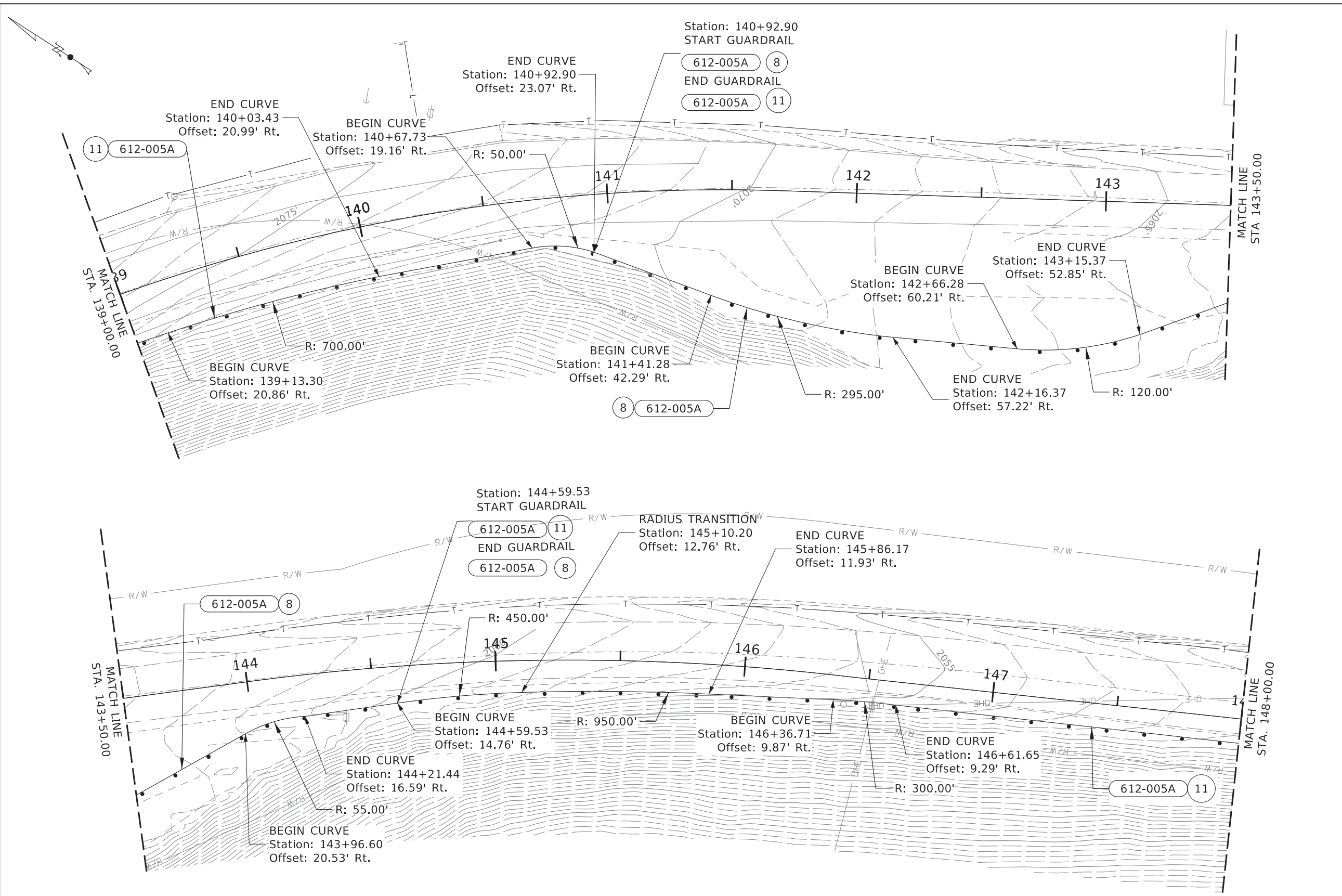
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 130+00.00 TO STA. 139+00.00
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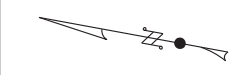
ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 62 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL	(8)
264.0 FT	STA. 140+92.90, 23.07 R TO STA. 143+50.00, 39.07 R	
113.0 FT	STA. 143+50.00, 39.07 R TO STA. 144+59.53, 14.76 R	
612-005A	W-BEAM GUARDRAIL	(11)
186.5 FT	STA. 139+00.00, 20.72 R TO STA. 140+92.90, 23.07 R	
338.0 FT	STA. 144+59.53, 14.76 R TO STA. 148+00.00, 9.90 R	




REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	CADD FILE NAME Roadway_015.dgn
DETAILED SMGC	DRAWING DATE: OCTOBER 2024
DRAWING CHECKED JRW	

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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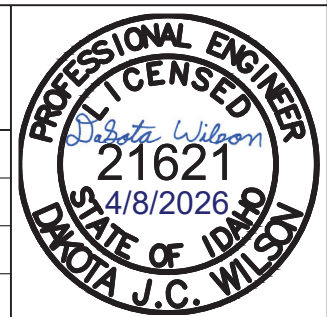
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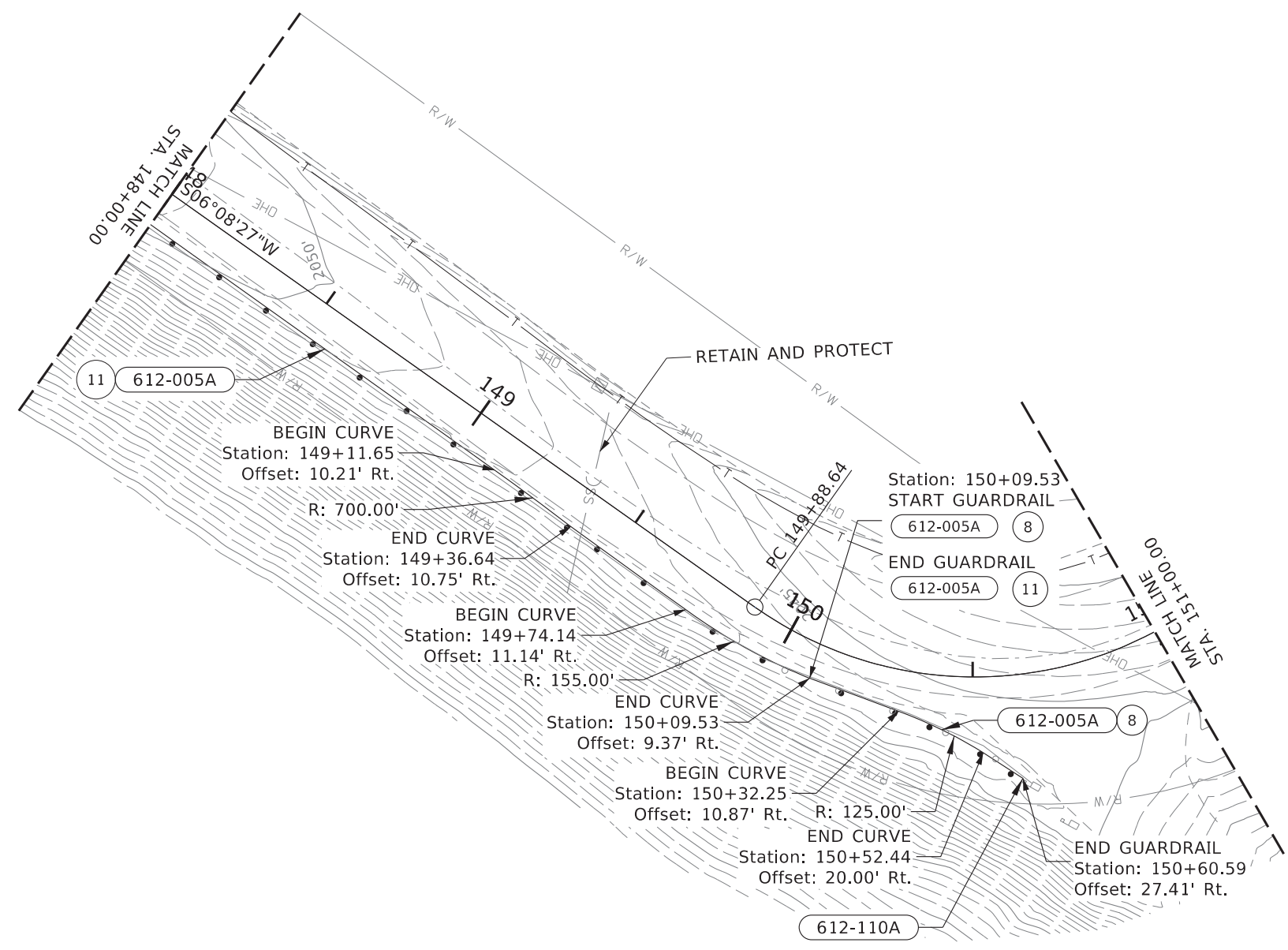
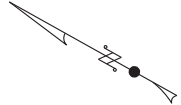


PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 139+00.00 TO STA. 148+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 63 OF 101





REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_016A.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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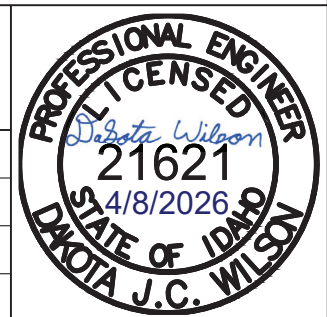
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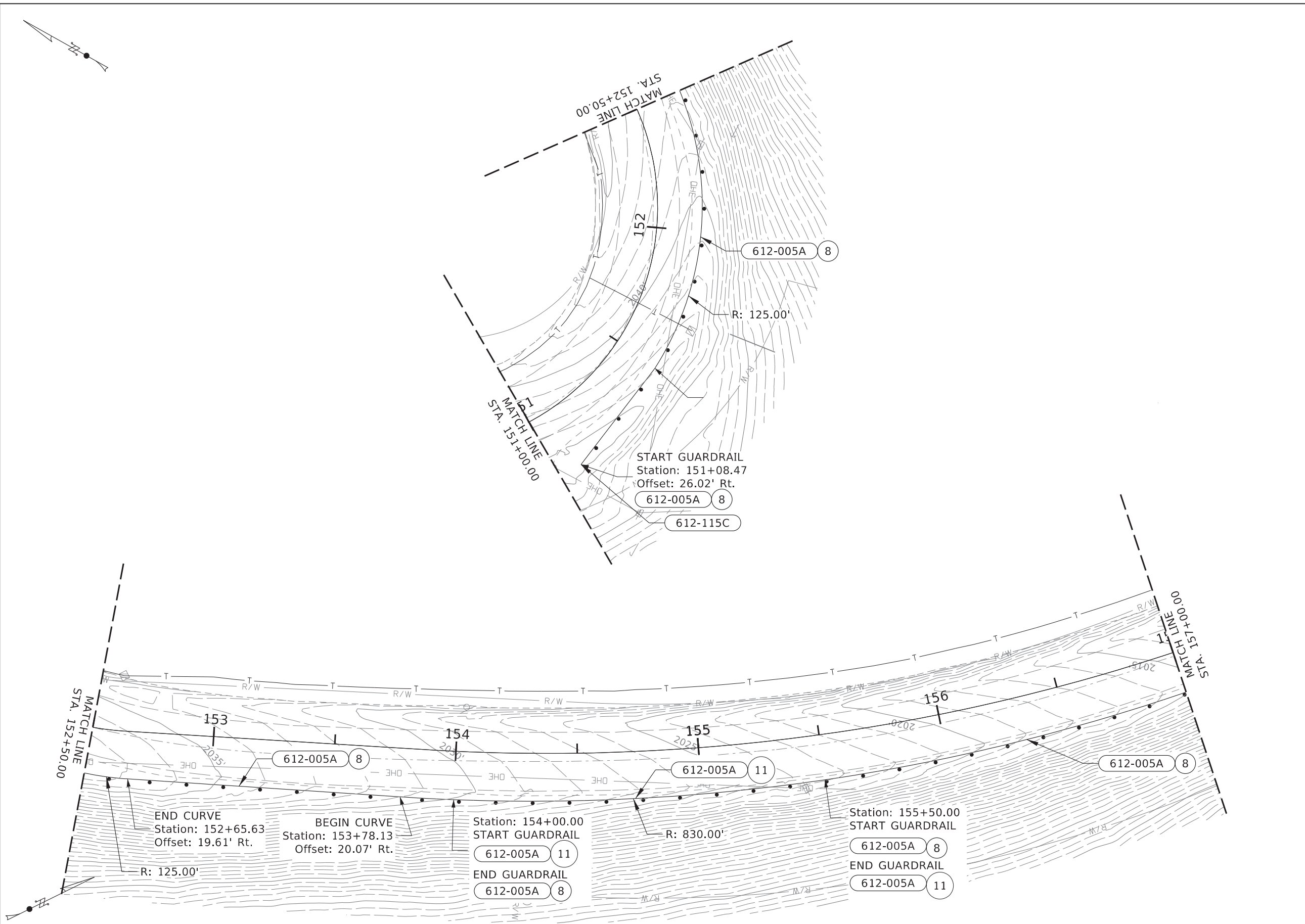


PROJECT NO.
A024(342)

ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1
NEZ PERCE CO
STA. 148+00.00 TO STA. 151+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 64 OF 101





OPTION A

612-005A	W-BEAM GUARDRAIL	8
194.5 FT	STA. 151+08.47, 26.02 R TO STA. 152+50.00, 19.15 R	
150.0 FT	STA. 152+50.00, 19.15 R TO STA. 154+00.00, 19.96 R	
156.0 FT	STA. 155+50.00, 18.70 R TO STA. 157+00.00, 17.19 R	
612-005A	W-BEAM GUARDRAIL	11
153.5 FT	STA. 154+00.00, 19.96 R TO STA. 155+50.00, 18.70 R	
612-115C	GUARDRAIL TERMINAL, TANGENT	
1 EA	STA. 151+08.47, 26.02 R	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_017.dgn
DRAWING DATE: OCTOBER 2024

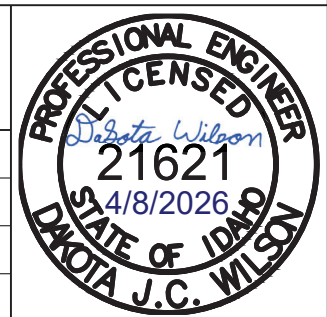
**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

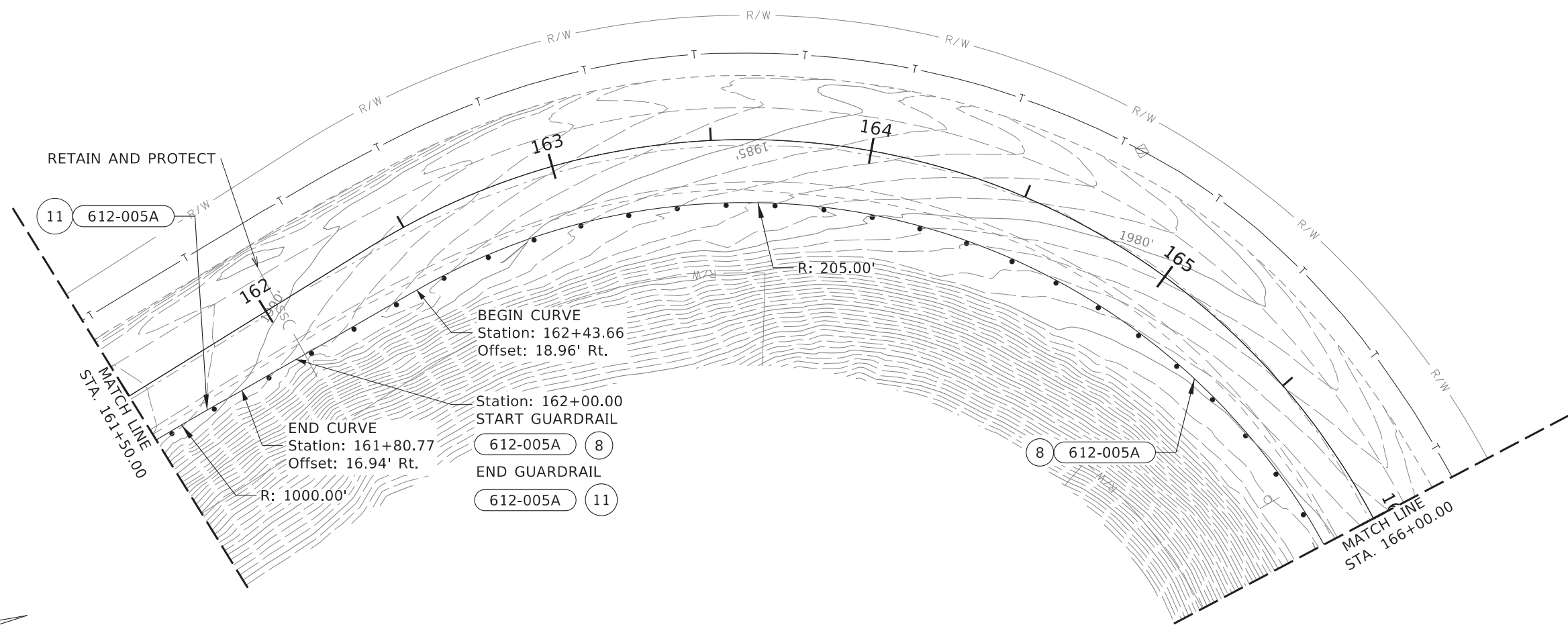
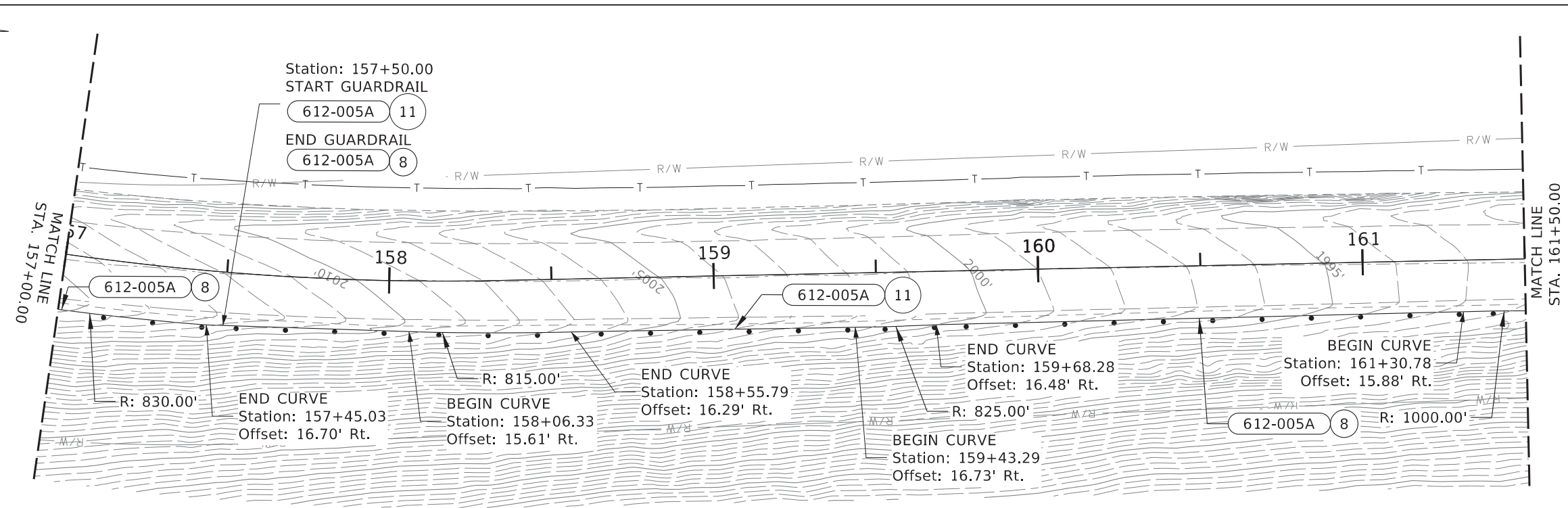
  
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	ENGLISH
OLD SPIRAL HWY GUARDRAIL, PH 1	COUNTY NEZ PERCE
NEZ PERCE CO	KEY NUMBER 24342
STA. 151+00.00 TO STA. 157+00.00	SHEET 65 OF 101

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OPTION A

612-005A	W-BEAM GUARDRAIL	8
50.0 FT	STA. 157+00.00, 17.19 R TO STA. 157+50.00, 16.44 R	
369.5 FT	STA. 162+00.00, 17.58 R TO STA. 166+00.00, 17.37 R	
612-005A	W-BEAM GUARDRAIL	11
433.5 FT	STA. 157+50.00, 16.44 R TO STA. 161+50.00, 15.99 R	
18.0 FT	STA. 161+50.00, 15.99 R TO STA. 162+00.00, 17.58 R	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_018.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

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**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

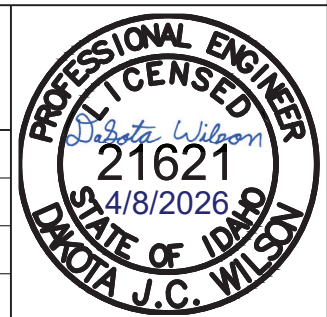
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 157+00.00 TO STA. 166+00.00

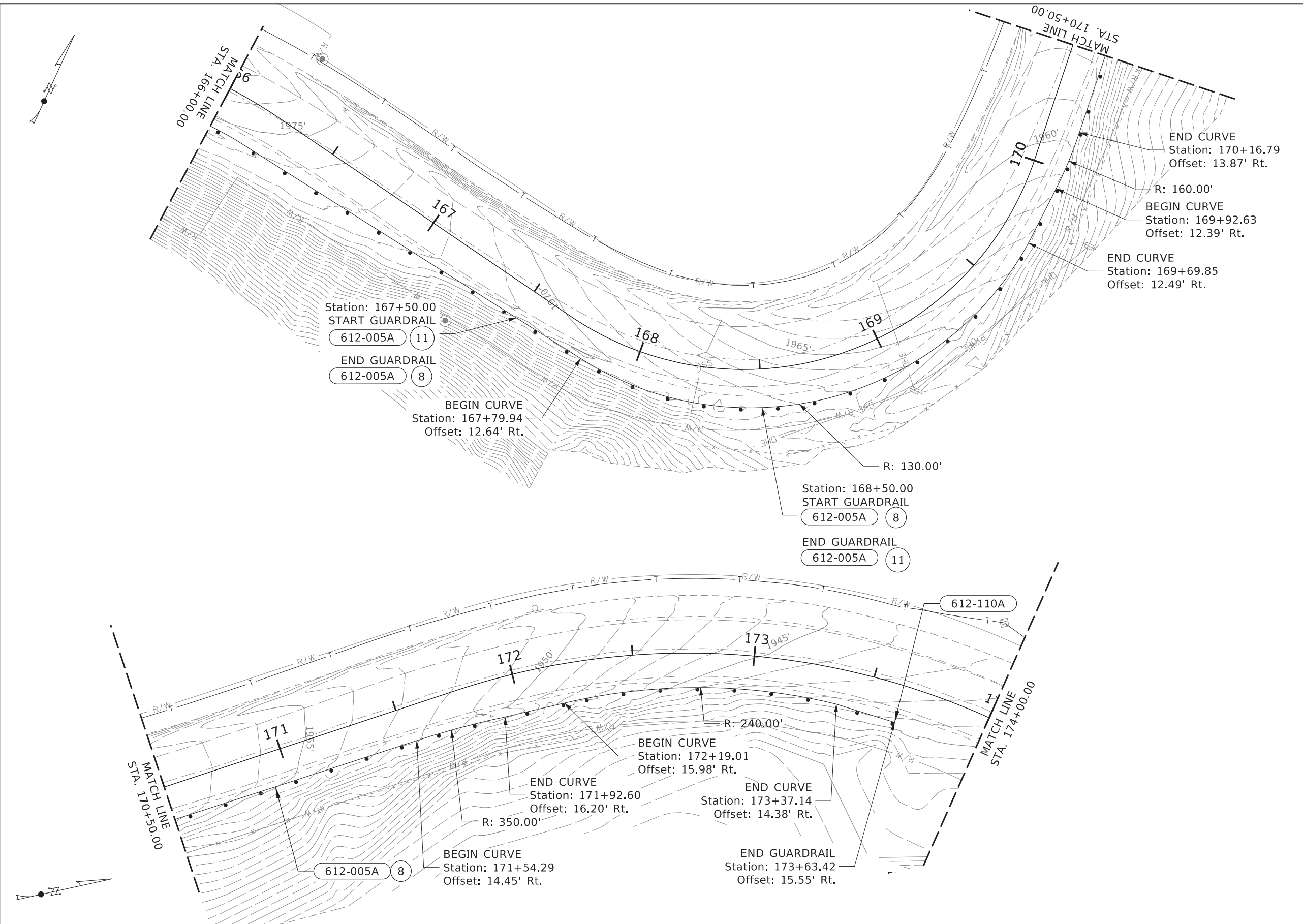
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 66 OF 101





OPTION A

612-005A	W-BEAM GUARDRAIL (8)
148.0 FT	STA. 166+00.00, 17.37 R TO STA. 167+50.00, 13.02 R
217.0 FT	STA. 168+50.00, 15.84 R TO STA. 170+50.00, 14.01 R
304.0 FT	STA. 170+50.00, 14.01 R TO STA. 173+63.42, 15.55 R
612-005A	W-BEAM GUARDRAIL (11)
110.0 FT	STA. 167+50.00, 13.02 R TO STA. 168+50.00, 15.84 R
612-110A	GUARDRAIL ANCHOR
1 EA	STA. 173+63.42, 15.55 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_019.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

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**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

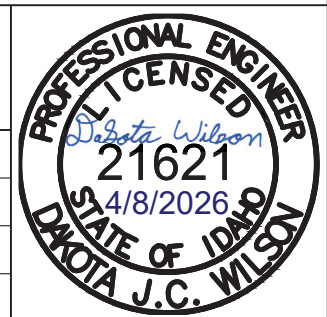
OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 166+00.00 TO STA. 174+00.00

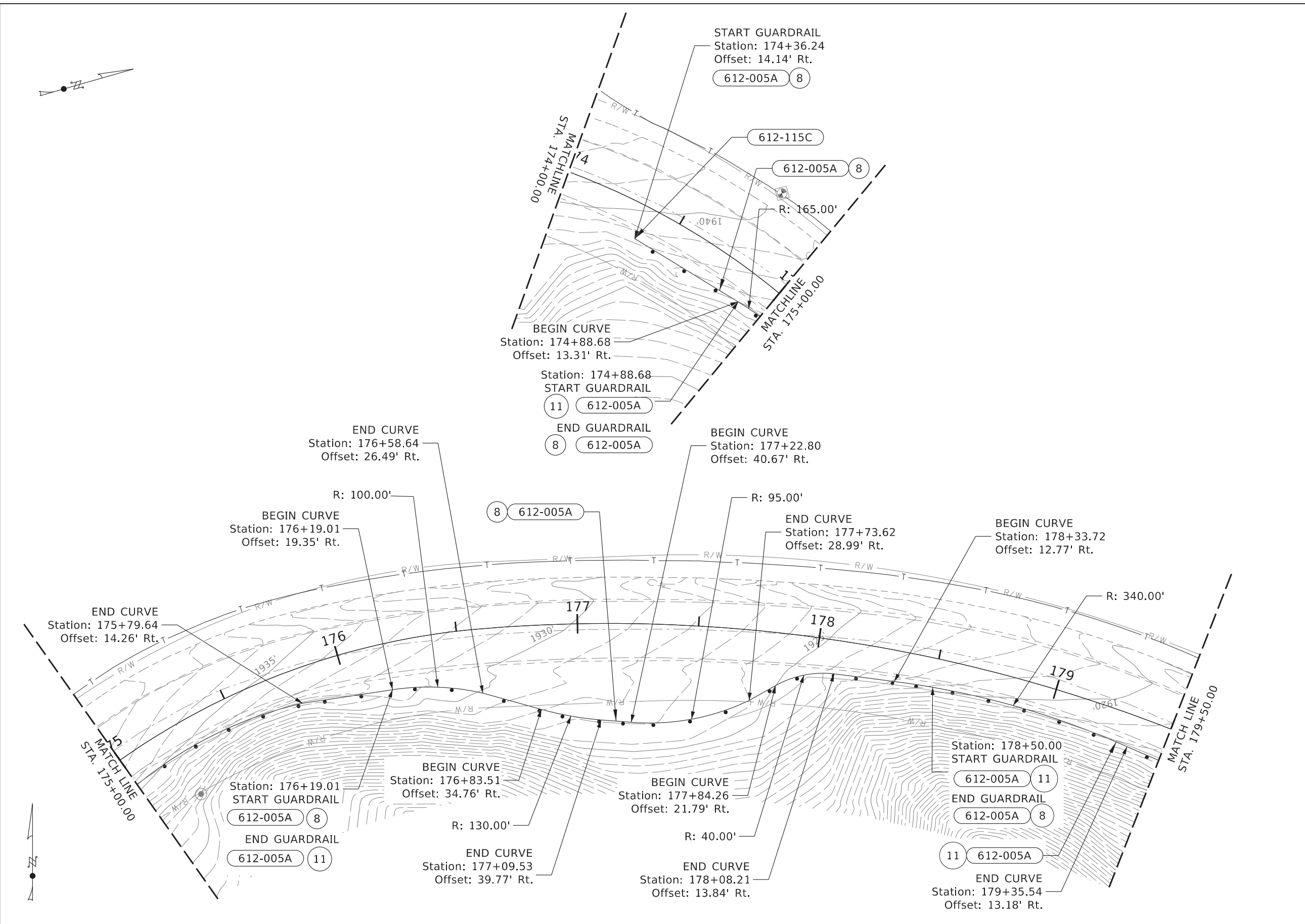
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 67 OF 101





OPTION B

612-005A	W-BEAM GUARDRAIL	8
50.0 FT	STA. 174+36.24, 14.14 R TO STA. 174+88.68, 13.31 R	
226.5 FT	STA. 176+19.01, 17.52 R TO STA. 178+50.00, 11.93 R	
612-005A	W-BEAM GUARDRAIL	11
10.5 FT	STA. 174+88.68, 13.31 R TO STA. 175+00.00, 12.34 R	
114.5 FT	STA. 175+00.00, 12.34 R TO STA. 176+19.01, 17.52 R	
100.5 FT	STA. 178+50.00, 11.93 R TO STA. 179+50.00, 13.81 R	
612-115C	GUARDRAIL TERMINAL, TANGENT	
1 EA	STA. 174+36.24, 14.14 R	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_020.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
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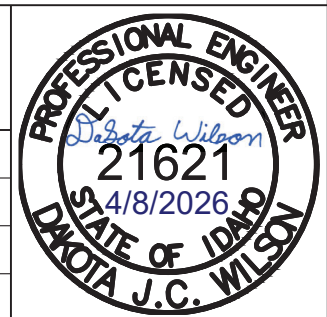


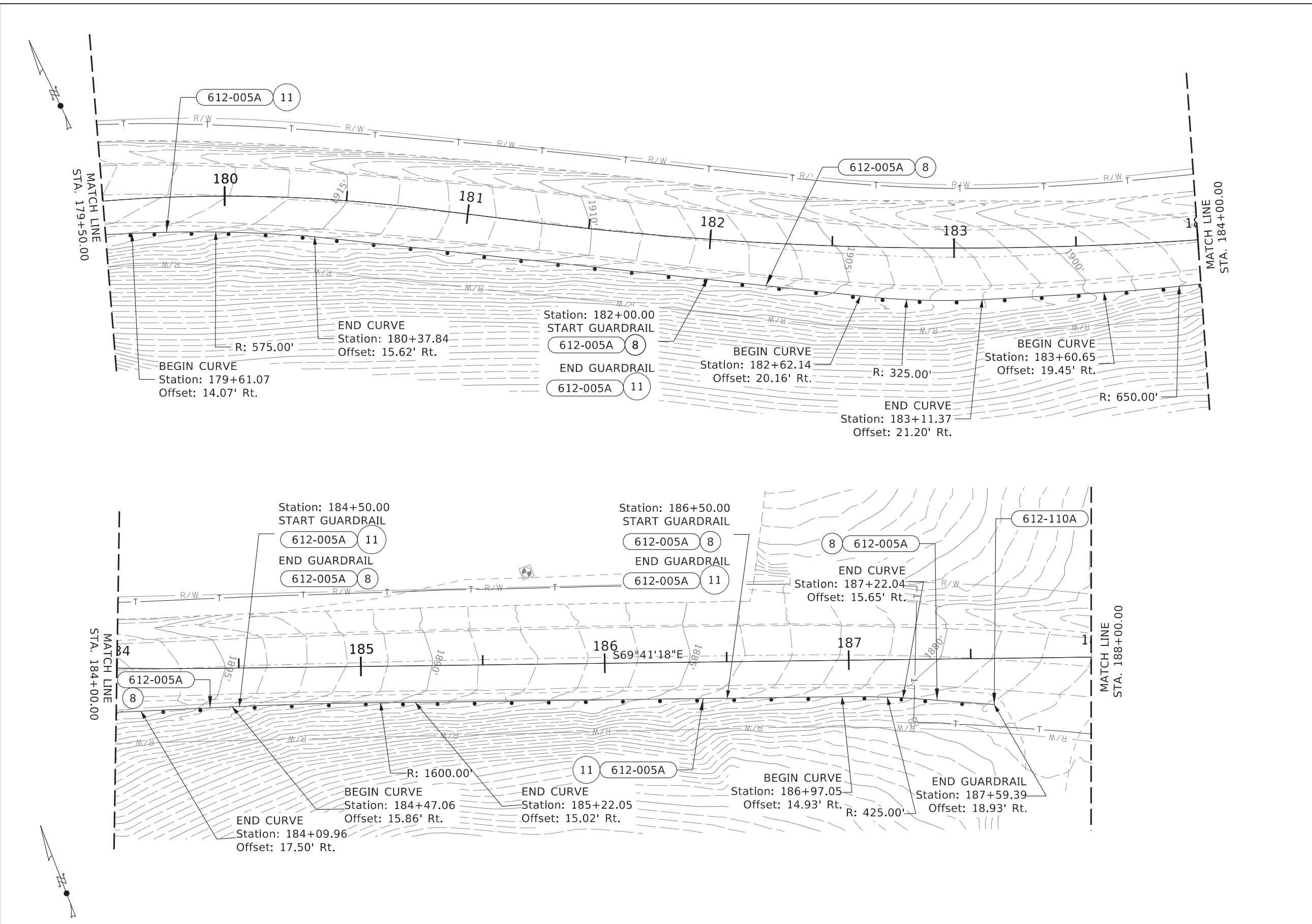
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	ENGLISH
OLD SPIRAL HWY GUARDRAIL, PH 1	
NEZ PERCE CO	
STA. 174+00.00 TO STA. 179+50.00	

COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 68 OF 101





OPTION B

612-005A	W-BEAM GUARDRAIL	(8)
200.5 FT	STA. 182+00.00, 16.45 R TO STA. 184+00.00, 18.07 R	
50.5 FT	STA. 184+00.00, 18.07 R TO STA. 184+50.00, 15.766 R	
110.0 FT	STA. 186+50.00, 14.96 R TO STA. 187+59.39, 18.93 R	
612-005A	W-BEAM GUARDRAIL	(11)
250.0 FT	STA. 179+50.00, 13.81 R TO STA. 182+00.00, 16.45 R	
199.5 FT	STA. 184+50.00, 15.76 R TO STA. 186+50.00, 14.96 R	
612-110A	GUARDRAIL ANCHOR	
1 EA	STA. 187+59.39, 19.93 R	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_021.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO TRANSPORTATION DEPARTMENT**

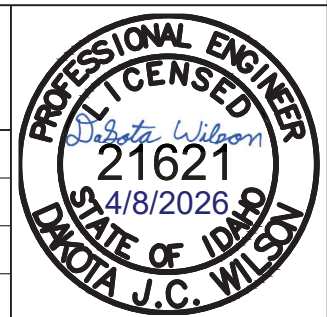
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

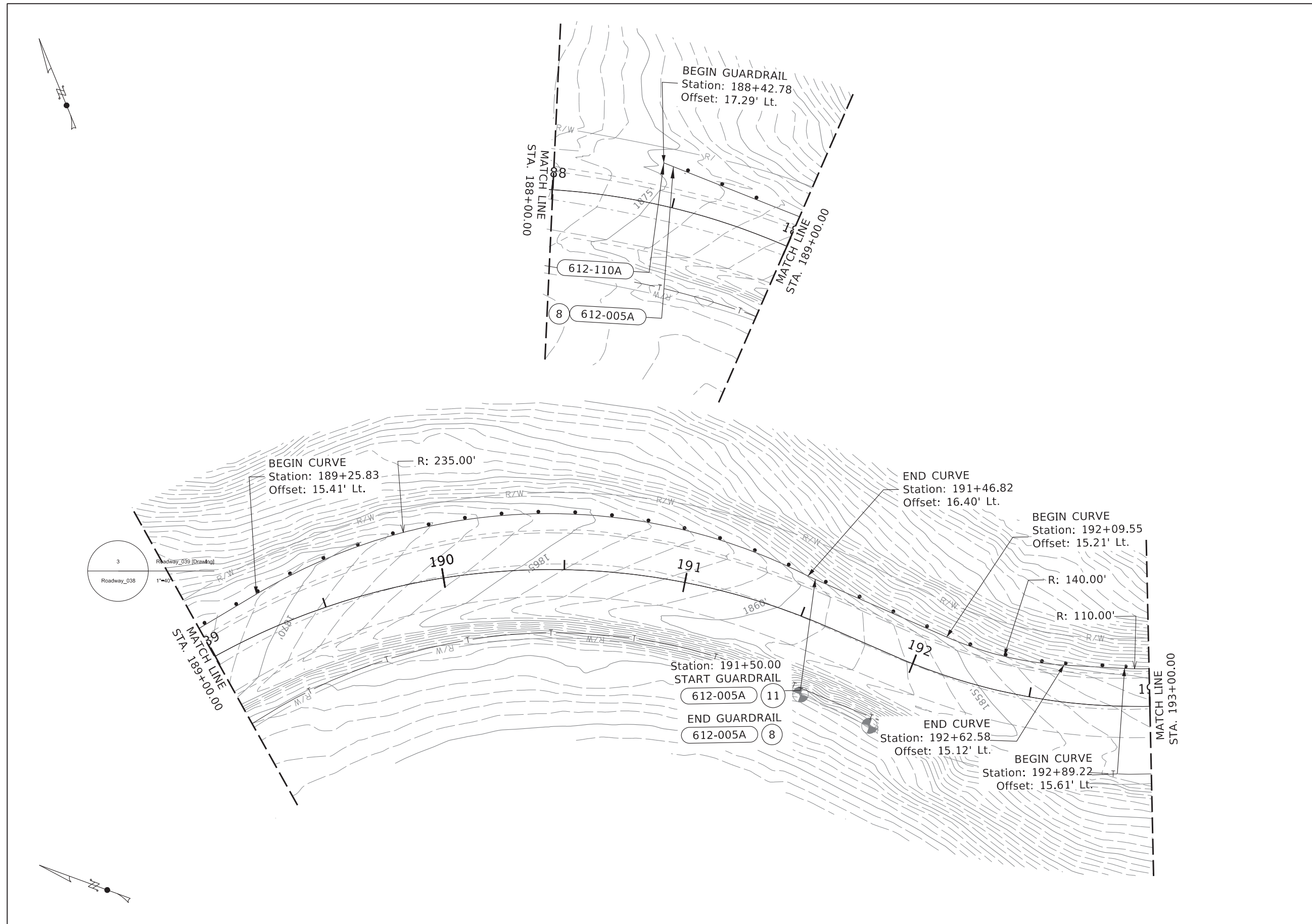
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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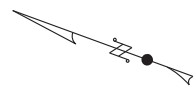
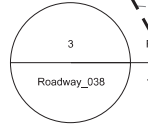
ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 179+50.00 TO STA. 188+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 69 OF 101





BASE SET	
612-005A	W-BEAM GUARDRAIL (8)
8.0 FT	STA. 188+42.78, 17.29 L TO STA. 188+50.00, 16.10 L
321.0 FT	STA. 188+50.00, 16.10 L TO STA. 191+50.00, 16.23 L
612-005A	W-BEAM GUARDRAIL (11)
144.0 FT	STA. 191+50.00, 16.23 L TO STA. 193+00.00, 15.53 L
612-110A	GUARDRAIL ANCHOR
1 EA	STA. 188+42.78, 17.29 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_022.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO TRANSPORTATION DEPARTMENT**

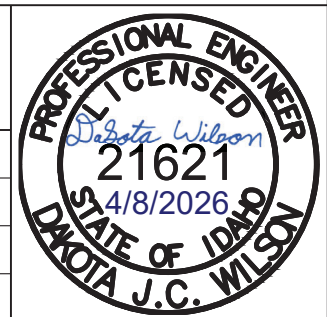
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

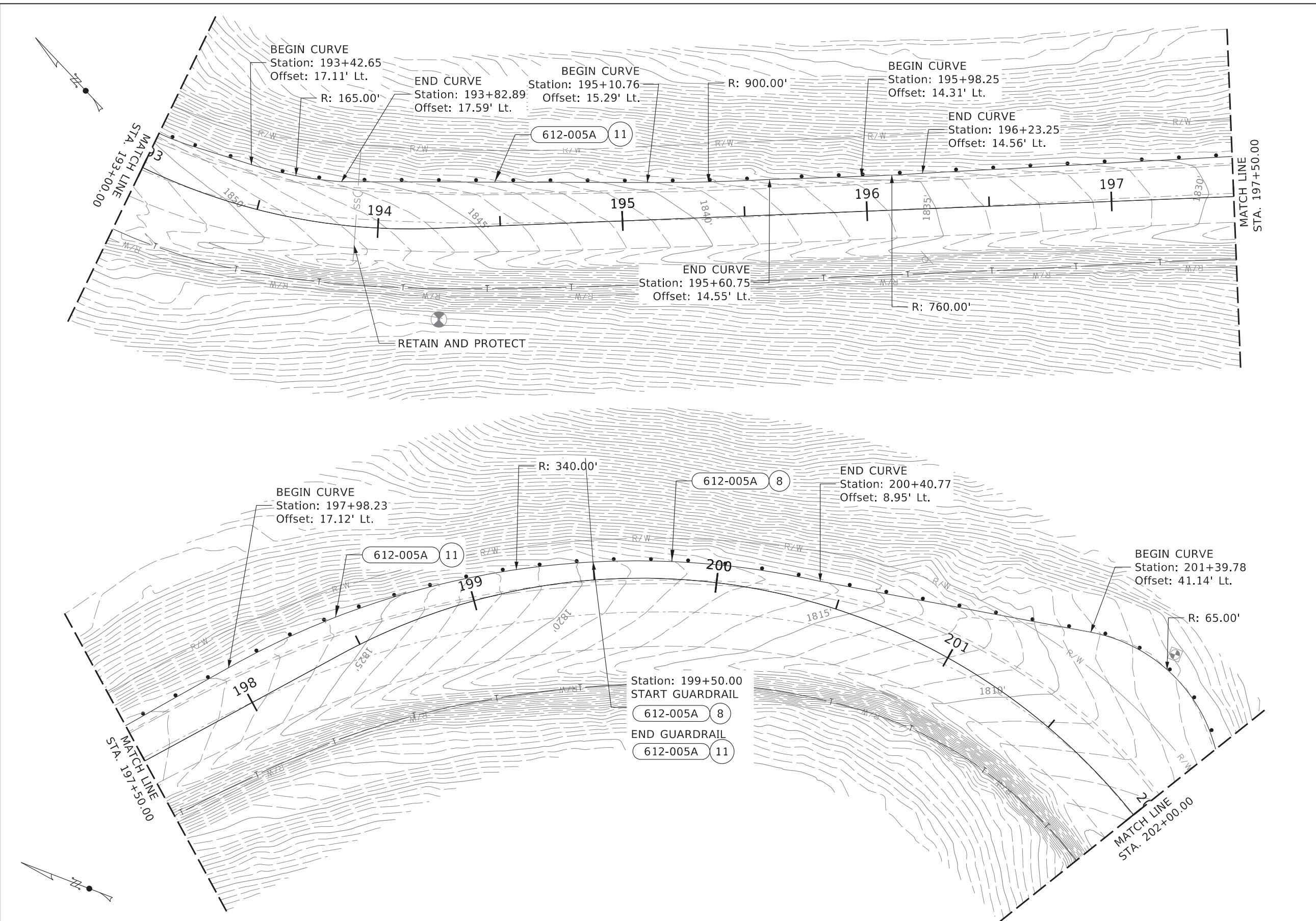
**J-U-B ENGINEERS, INC.**

PROJECT NO.	A024(342)
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ROADWAY PLANS AND UTILITY SHEET	OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 188+00.00 TO STA. 193+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 70 OF 101





BASE SET

612-005A	W-BEAM GUARDRAIL	8
281.0 FT	STA. 199+50.00, 7.36 L TO STA. 202+00.00, 42.97 L	
612-005A	W-BEAM GUARDRAIL	11
442.0 FT	STA. 193+00.00, 15.53 L TO STA. 197+50.00, 16.41 L	
204.5 FT	STA. 197+50.00, 16.41 L TO STA. 199+50.00, 7.36 L	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
Roadway\_023.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

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**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

ROADWAY PLANS AND UTILITY SHEET

OLD SPIRAL HWY GUARDRAIL, PH 1  
NEZ PERCE CO  
STA. 193+00.00 TO STA. 202+00.00

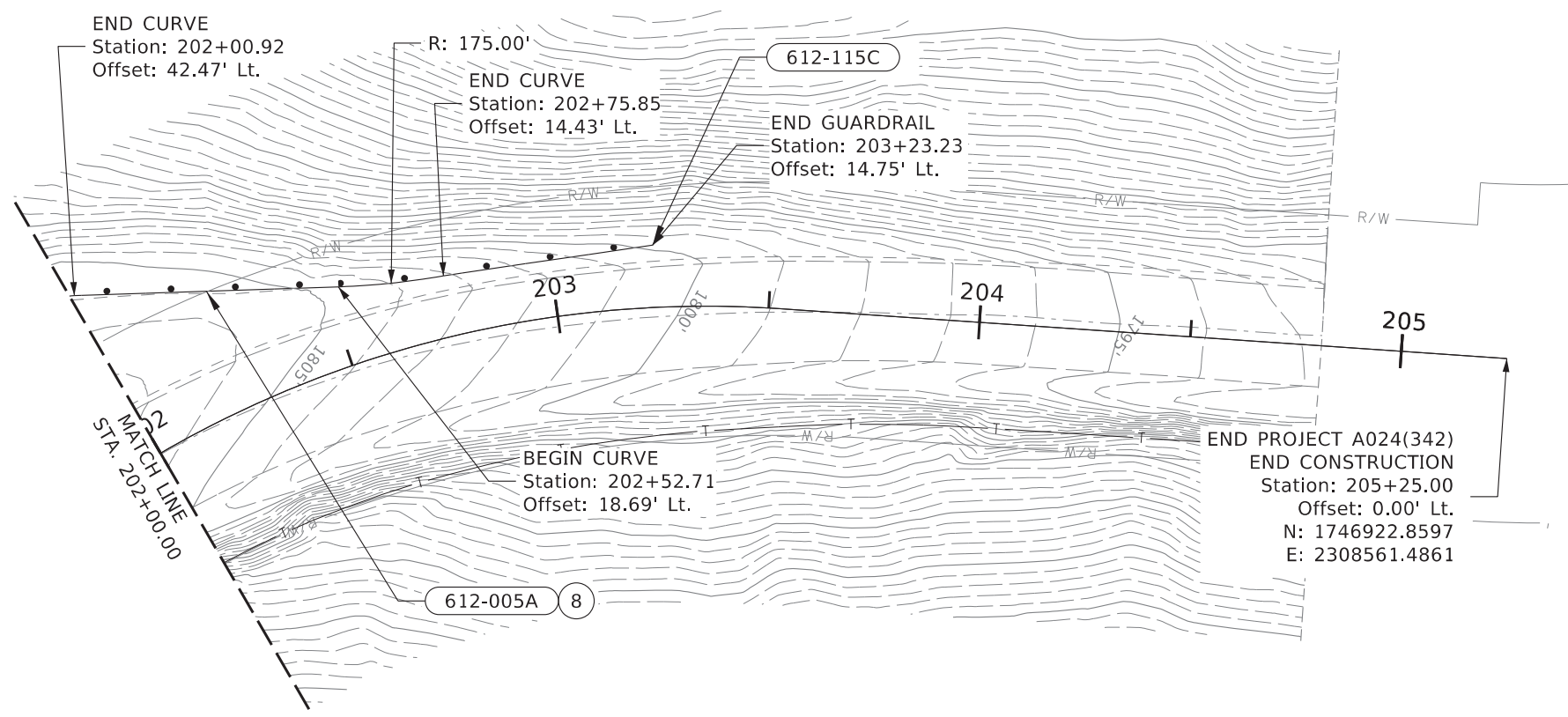
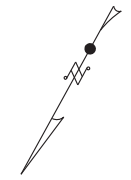
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 71 OF 101

PROFESSIONAL ENGINEER  
LICENSED  
*Dakota Wilson*  
21621  
4/8/2026  
STATE OF IDAHO  
DAKOTA J.C. WILSON



BASE SET	
612-005A 138.5 FT	W-BEAM GUARDRAIL (8) STA. 202+00.00, 42.97 L TO STA. 203+23.23, 14.75 L
612-115C 1 EA	GUARDRAIL TERMINAL, TANGENT STA. 203+23.23, 14.75 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME Roadway_024.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

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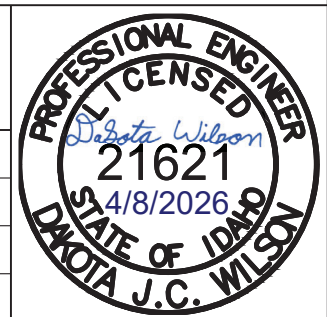
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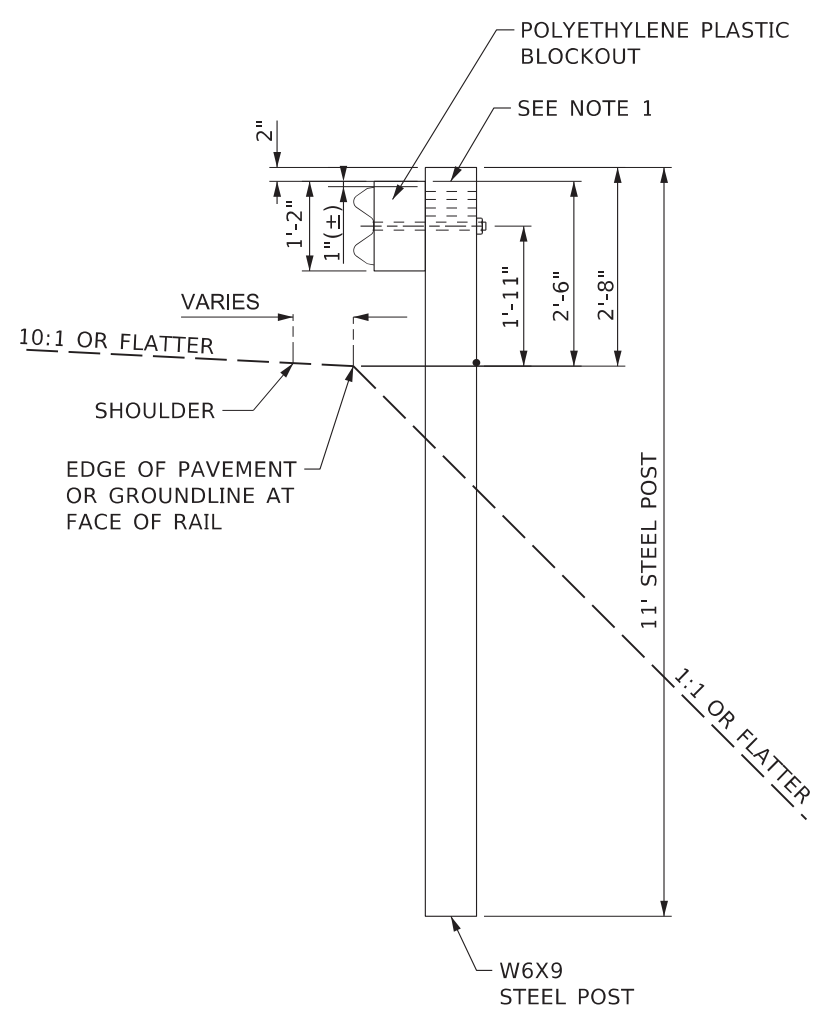


PROJECT NO.
A024(342)

ROADWAY PLANS AND UTILITY SHEET
OLD SPIRAL HWY GUARDRAIL, PH 1 NEZ PERCE CO STA. 202+00.00 TO STA. 205+25.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 72 OF 101





NOTE:

1. THE GUARDRAIL POSTS SHALL BE PLUMBED AND SET VERTICALLY. REFER TO SECTION 612-GUARDRAIL, OF THE ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. GUARDRAIL POST SPACING SHALL BE 6'-3" C.T.C. UNLESS OTHERWISE SHOWN.
3. RETAIN AND PROTECT ALL UNDERGROUND UTILITIES.

**W-BEAM GUARDRAIL - 11 FT POST (612-005A)**  
N.T.S.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_RDTL_001.DGN
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

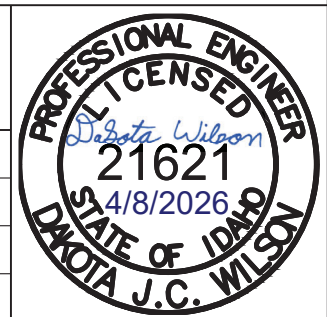
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

DETAILS
OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 73 OF 101



SIGN ASSEMBLY NO.	STATION LT. OR RT.	RAMP NO.	FOUNDATION SIZE	POST TYPE	NO. OF POSTS	POST SPACING	APPROX. LENGTH OF 1st POST	APPROX. LENGTH OF 2nd POST	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W" x H"	APPROX. SQ. FT. OF SIGN	SIGN BACKGROUND COLOR	SIGN BRACKETS & BRACE ANGLES WEIGHT (LBS)	BRACKET NO.	REMARKS
1	39+66.80, 15.90 RT		E-2	E-2	1		10'-0"		5'-7"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, BASE SET
												W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, BASE SET
2	41+81.90, 26.95 LT		E-2	E-2	1		8'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
3	42+59.42, 19.53 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
4	43+32.60, 20.69 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
5	44+00.85, 18.97 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
6	45+08.15, 17.28 LT		E-2	E-2	1		10'-0"		9'-10"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
7	45+79.16, 16.74 LT		E-2	E-2	1		11'-0"		6'-2"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
8	46+51.66, 16.31 LT		E-2	E-2	1		9'-0"		6'-7"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
9	48+51.36, 16.77 LT		E-2	E-2	1		10'-0"		6'-6"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, BASE SET
												W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, BASE SET
10	84+50.11, 26.86 RT		E-2	E-2	1		9'-6"		13'-3"	5'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, BASE SET
11	86+53.45 24.94 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
12	87+37.39, 20.75 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
13	88+05.23, 24.19 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
14	88+71.40, 26.13 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
15	89+30.48, 25.37 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
16	90+04.30, 27.90 RT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
17	92+44.10, 14.67 LT		E-2	E-2	1		10'-6"		7'-2"	5'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, BASE SET
18	103+49.99, 27.21 RT		E-2	E-2	1		11'-0"		13'-3"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, BASE SET
												W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, BASE SET
19	106+00.98, 19.06 RT		E-2	E-2	1		9'-0"		6'-10"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
20	106+73.21, 17.33 RT		E-2	E-2	1		9'-0"		7'-8"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
21	107+44.06, 18.07 RT		E-2	E-2	1		9'-0"		7'-6"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
22	108+14.70, 18.32 RT		E-2	E-2	1		10'-0"		8'-8"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
23	108+85.41, 17.74 RT		E-2	E-2	1		9'-0"		8'-2"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
24	109+56.13, 18.15 RT		E-2	E-2	1		9'-0"		6'-10"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
25	110+26.38, 19.50 RT		E-2	E-2	1		9'-0"		7'-0"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
												W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
26	112+23.20, 24.09 LT		E-2	E-2	1		11'-0"		13'-3"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, BASE SET
												W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, BASE SET
27	120+15.21, 15.21 RT		E-2	E-2	1		12'-6"		6'-8"	5'-0"	B	W1-2	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-CURVE, BASE SET
28	122+09.50, 26.57 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET

CONSTRUCT SIGNS IN ACCORDANCE TO THE LATEST FHWA'S PUBLICATION OF STANDARD HIGHWAY SIGNS (SHS) AND SUPPLEMENT, THE IDAHO SUPPLEMENT TO THE SHS OR AS SPECIFIED.

COLUMN C, DISTANCE FROM EDGE OF SHOULDER TO CENTER LINE OF FIRST POST  
 COLUMN E, THE HEIGHT ABOVE THE EDGE OF FINISHED SHOULDER TO THE BOTTOM OF LOWEST SIGN.

POST LENGTHS SHOWN ARE APPROXIMATE. DETERMINE FINAL VALUES IN THE FIELD PRIOR TO FABRICATION

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED BPRR	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	
DETAILED SMGC	CADD FILE NAME 24342_SNER_001.DGN
DRAWING CHECKED JRW	DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

SIGNING ERECTION SPECIFICATIONS  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
 COUNTY  
NEZ PERCE  
 KEY NUMBER  
24342  
 SHEET 74 OF 101



SIGN ASSEMBLY NO.	STATION LT. OR RT.	RAMP NO.	FOUNDATION SIZE	POST TYPE	NO. OF POSTS	POST SPACING	APPROX. LENGTH OF 1st POST	APPROX. LENGTH OF 2nd POST	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W" x H"	APPROX. SQ. FT. OF SIGN	SIGN BACKGROUND COLOR	SIGN BRACKETS & BRACE ANGLES WEIGHT (LBS)	BRACKET NO.	REMARKS
29	122+76.86, 29.02 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
30	123+44.48, 24.98 LT		E-2	E-2	1		11'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
31	124+13.56, 22.39 LT		E-2	E-2	1		16'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
32	124+83.82, 22.16 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
33	126+23.22, 30.19 LT		E-2	E-2	1		10'-6"		13'-3"	5'-0"	B	W1-2	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-CURVE, BASE SET
34	147+72.39, 13.12 RT		E-2	E-2	1		10'-0"		6'-6"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, BASE SET
											B	W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, BASE SET
35	149+72.39, 13.89 RT		E-2	E-2	1		9'-0"		4'-11"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
36	150+44.09, 20.30 RT		E-2	E-2	1		9'-0"		10'-6"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, BASE SET
37	151+75.81, 23.49 RT		E-2	E-2	1		9'-0"		8'-7"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
38	152+42.03, 22.75 RT		E-2	E-2	1		10'-0"		9'-6"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
39	153+17.57, 21.87 RT		E-2	E-2	1		9'-0"		4'-2"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
40	155+14.72, 21.43 LT		E-2	E-2	1		12'-0"		13'-3"	4'-0"	B	W1-11	30" x 30"	6.3	YELLOW			HAIRPIN CORNER, OPTION A
											B	W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, OPTION A
41	161+28.73, 20.36 RT		E-2	E-2	1		13'-0"		6'-4"	4'-0"	B	W1-5	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT - WINDING ROAD, OPTION A
											B	W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, OPTION A
42	163+39.58, 22.66 LT		E-2	E-2	1		9'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
43	164+12.35, 23.34 LT		E-2	E-2	1		9'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
44	164+84.73, 25.14 LT		E-2	E-2	1		9'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
45	165+57.05, 23.84 LT		E-2	E-2	1		9'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
46	166+63.72, 23.87 RT		E-2	E-2	1		10'-0"		10'-0"	4'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, OPTION A
											B	W13-1P	18" x 18"	2.3	YELLOW			20 MPH ADVISORY SPEED PLAQUE, OPTION A
47	167+74.83, 13.87 RT		E-2	E-2	1		11'-0"		4'-10"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
48	168+46.39, 19.07 RT		E-2	E-2	1		9'-0"		8'-1"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
49	169+16.92, 18.52 RT		E-2	E-2	1		9'-0"		7'-8"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
50	169+88.51, 14.52 RT		E-2	E-2	1		10'-0"		6'-7"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
51	171+88.36, 25.66 LT		E-2	E-2	1		9'-6"		13'-3"	5'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, OPTION A
52	173+00.22, 26.52 LT		E-2	E-2	1		12'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
53	173+73.95, 26.49 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION A

CONSTRUCT SIGNS IN ACCORDANCE TO THE LATEST FHWA'S PUBLICATION OF STANDARD HIGHWAY SIGNS (SHS) AND SUPPLEMENT, THE IDAHO SUPPLEMENT TO THE SHS OR AS SPECIFIED.

COLUMN C, DISTANCE FROM EDGE OF SHOULDER TO CENTER LINE OF FIRST POST

COLUMN E, THE HEIGHT ABOVE THE EDGE OF FINISHED SHOULDER TO THE BOTTOM OF LOWEST SIGN.

POST LENGTHS SHOWN ARE APPROXIMATE. DETERMINE FINAL VALUES IN THE FIELD PRIOR TO FABRICATION

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED BPRR	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	
DETAILED SMGC	CADD FILE NAME 24342_SNER_002.DGN
DRAWING CHECKED JRW	DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

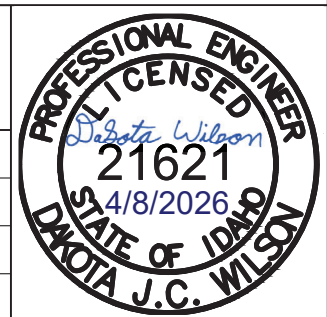


**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

SIGNING ERECTION SPECIFICATIONS  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 75 OF 101



SIGN ASSEMBLY NO.	STATION LT. OR RT.	RAMP NO.	FOUNDATION SIZE	POST TYPE	NO. OF POSTS	POST SPACING	APPROX. LENGTH OF 1st POST	APPROX. LENGTH OF 2nd POST	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W" x H"	APPROX. SQ. FT. OF SIGN	SIGN BACKGROUND COLOR	SIGN BRACKETS & BRACE ANGLES WEIGHT (LBS)	BRACKET NO.	REMARKS
54	174+47.47, 28.10 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
55	175+20.72, 29.12 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
56	175+93.94, 24.83 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
57	176+68.62, 21.87 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
											B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
58	177+45.98, 22.45 LT		E-2	E-2	1		10'-0"		12'-9"	5'-0"	B	W1-8	18" x 24"	3.0	YELLOW			CHEVRON, OPTION B
59	195+42.51, 21.65 RT		E-2	E-2	1		10'-0"		10'-0"	4'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, BASE SET
											B	W13-1P	18" x 18"	2.3	YELLOW			25 MPH ADVISORY SPEED PLAQUE, BASE SET
60	204+60.05, 25.37 LT		E-2	E-2	1		14'-0"		10'-0"	4'-0"	B	W1-1	30" x 30"	6.3	YELLOW			HORIZONTAL ALIGNMENT-TURN, BASE SET
											B	W13-1P	18" x 18"	2.3	YELLOW			25 MPH ADVISORY SPEED PLAQUE, BASE SET

CONSTRUCT SIGNS IN ACCORDANCE TO THE LATEST FHWA'S PUBLICATION OF STANDARD HIGHWAY SIGNS (SHS) AND SUPPLEMENT, THE IDAHO SUPPLEMENT TO THE SHS OR AS SPECIFIED.

COLUMN C, DISTANCE FROM EDGE OF SHOULDER TO CENTER LINE OF FIRST POST

COLUMN E, THE HEIGHT ABOVE THE EDGE OF FINISHED SHOULDER TO THE BOTTOM OF LOWEST SIGN.

POST LENGTHS SHOWN ARE APPROXIMATE. DETERMINE FINAL VALUES IN THE FIELD PRIOR TO FABRICATION

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED BPRR	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	CADD FILE NAME 24342_SNER_003.DGN
DETAILED SMGC	DRAWING DATE: OCTOBER 2024
DRAWING CHECKED JRW	

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

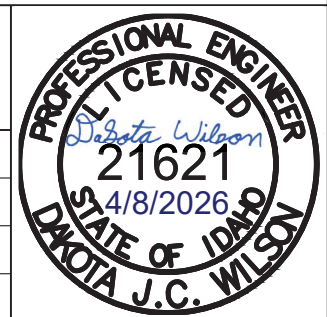
SIGNING ERECTION SPECIFICATIONS  
  
OLD SPIRAL HWY GUARDRAIL, PH 1  
GUARDRAIL IMPRV, NEZ PERCE CO

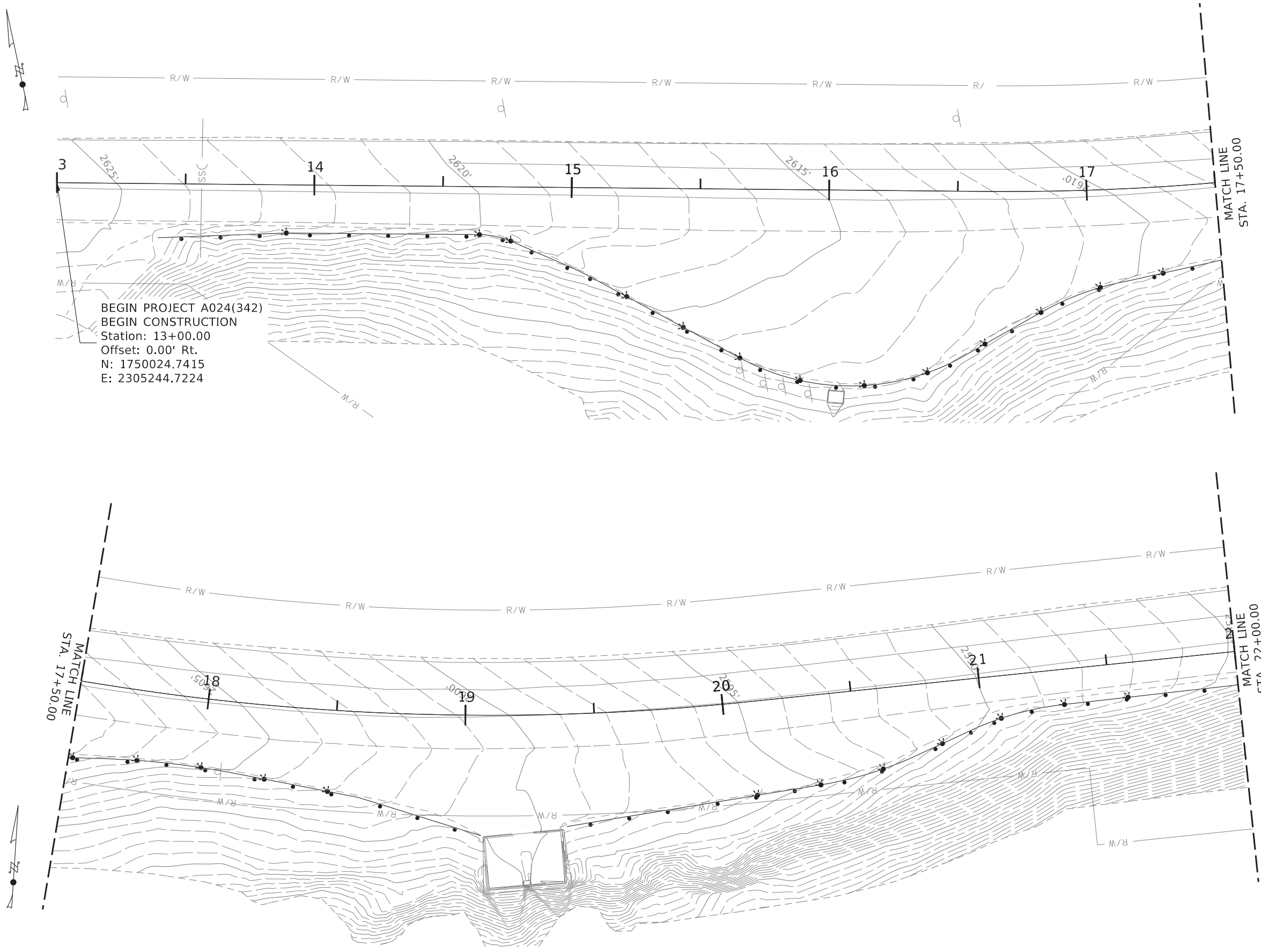
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 76 OF 101





BEGIN PROJECT A024(342)  
 BEGIN CONSTRUCTION  
 Station: 13+00.00  
 Offset: 0.00' Rt.  
 N: 1750024.7415  
 E: 2305244.7224

BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 13+89.29	18.71 R
1 EA	STA. 14+64.29	18.62 R
1 EA	STA. 14+76.49	20.98 R
1 EA	STA. 15+21.74	42.16 R
1 EA	STA. 15+43.83	53.86 R
1 EA	STA. 15+65.92	65.57 R
1 EA	STA. 15+89.42	74.09 R
1 EA	STA. 16+14.36	75.82 R
1 EA	STA. 16+38.81	70.63 R
1 EA	STA. 16+61.01	59.27 R
1 EA	STA. 16+81.66	47.03 R
1 EA	STA. 17+03.95	37.93 R
1 EA	STA. 17+27.68	33.57 R
1 EA	STA. 17+51.62	29.94 R
1 EA	STA. 17+75.75	27.19 R
1 EA	STA. 18+00.06	26.79 R
1 EA	STA. 18+24.28	28.75 R
1 EA	STA. 18+48.35	31.61 R
1 EA	STA. 20+09.85	36.50 R
1 EA	STA. 20+34.81	35.00 R
1 EA	STA. 20+59.54	31.36 R
1 EA	STA. 20+83.40	23.91 R
1 EA	STA. 21+07.16	16.48 R
1 EA	STA. 21+32.11	13.66 R
1 EA	STA. 21+57.00	13.42 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_SIGN\_001.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**



YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.  
  
A024(342)

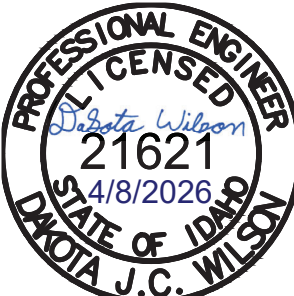
SIGN PLANS  
 OLD SPIRAL HWY GUARDRAIL, PH1  
 NEZ PERCE CO  
 STA. 13+00.00 TO STA. 22+00.00

**ENGLISH**

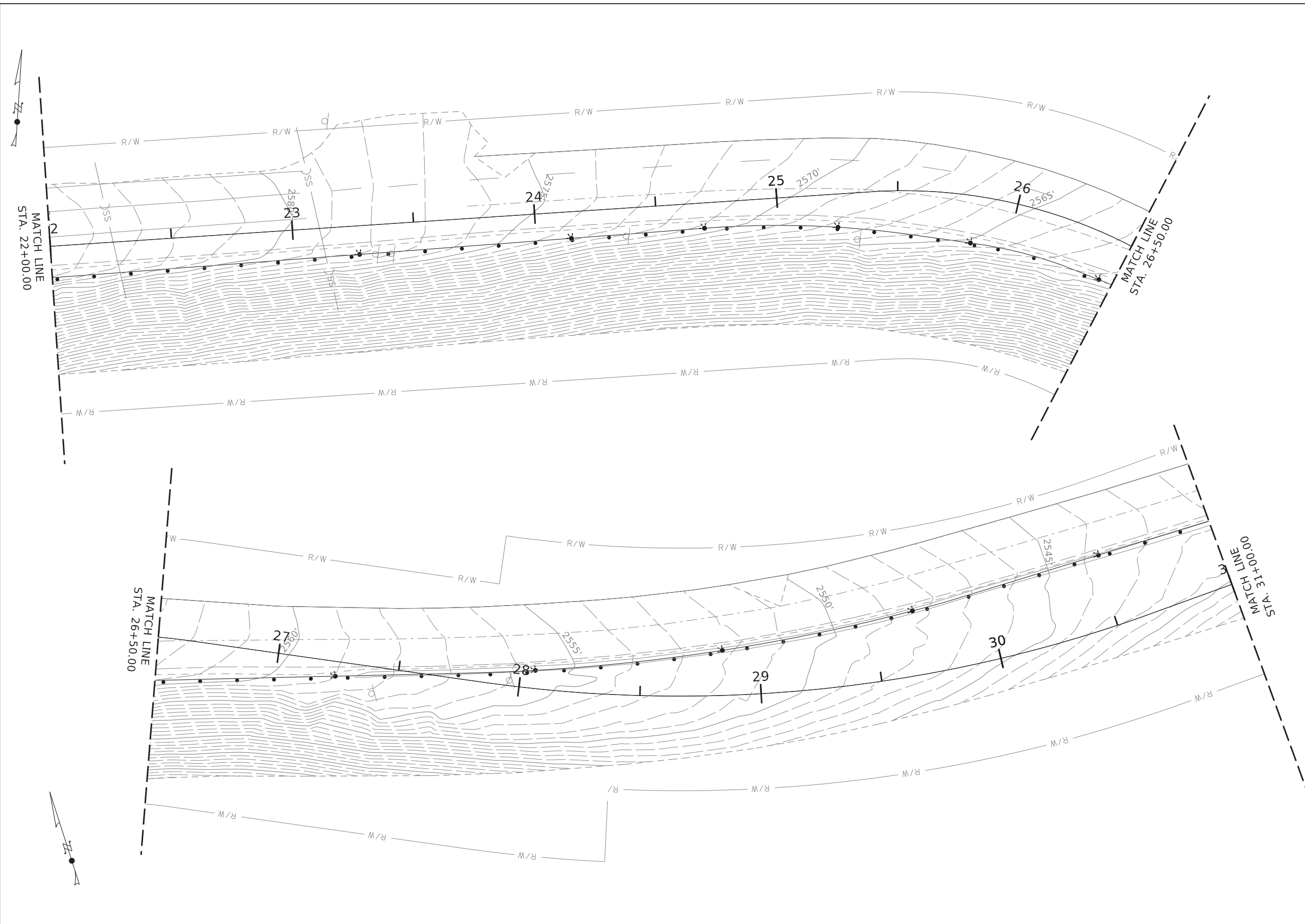
COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 77 OF 101



PROFESSIONAL ENGINEER  
 LICENSED  
 Dakota Wilson  
 21621  
 4/8/2026  
 STATE OF IDAHO  
 DAKOTA J.C. WILSON



BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 23+26.95	11.80 R
1 EA	STA. 24+14.49	10.97 R
1 EA	STA. 24+69.48	10.44 R
1 EA	STA. 25+24.39	13.70 R
1 EA	STA. 25+82.98	19.47 R
1 EA	STA. 26+43.79	18.34 R
1 EA	STA. 27+24.42	6.08 R
1 EA	STA. 28.06.02	7.50 L
1 EA	STA. 28+84.56	18.56 L
1 EA	STA. 29+67.50	26.61 L
1 EA	STA. 30+51.65	29.92 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DESIGN CHECKED  
DJW  
DETAILED  
SMGC  
DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_SIGN\_002.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity



**J-U-B ENGINEERS, INC.**

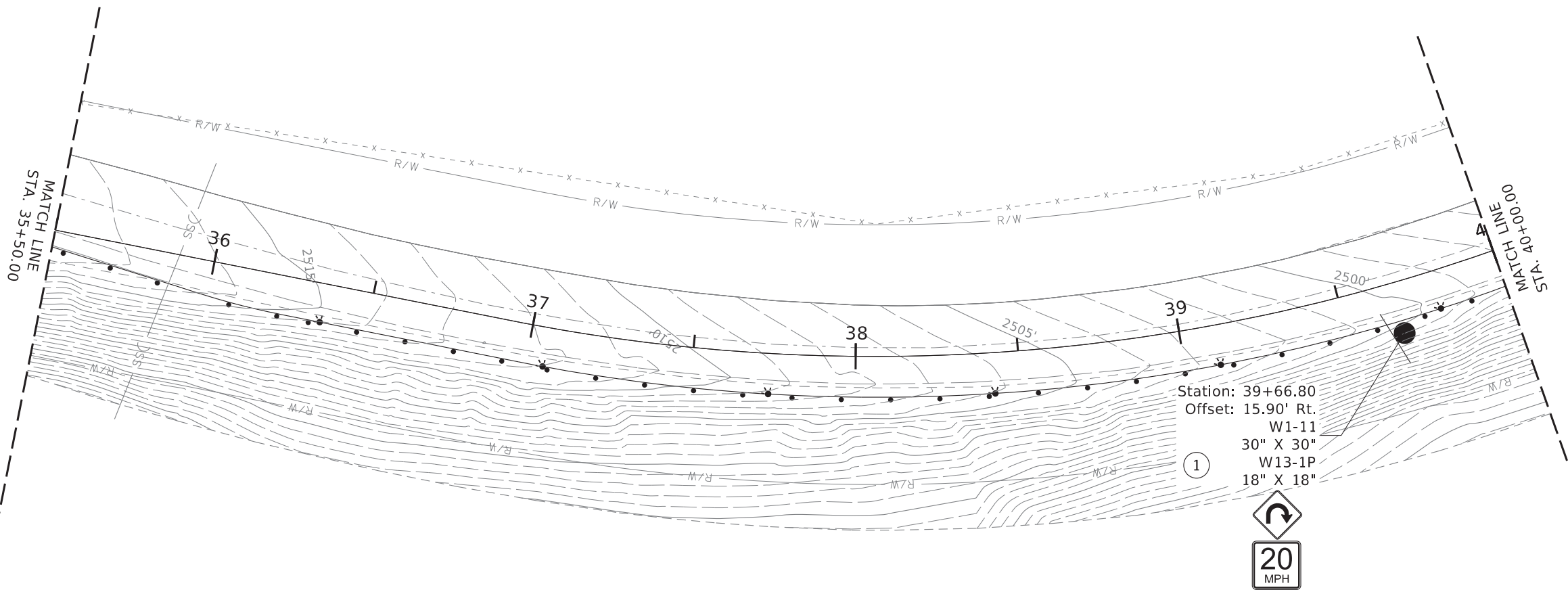
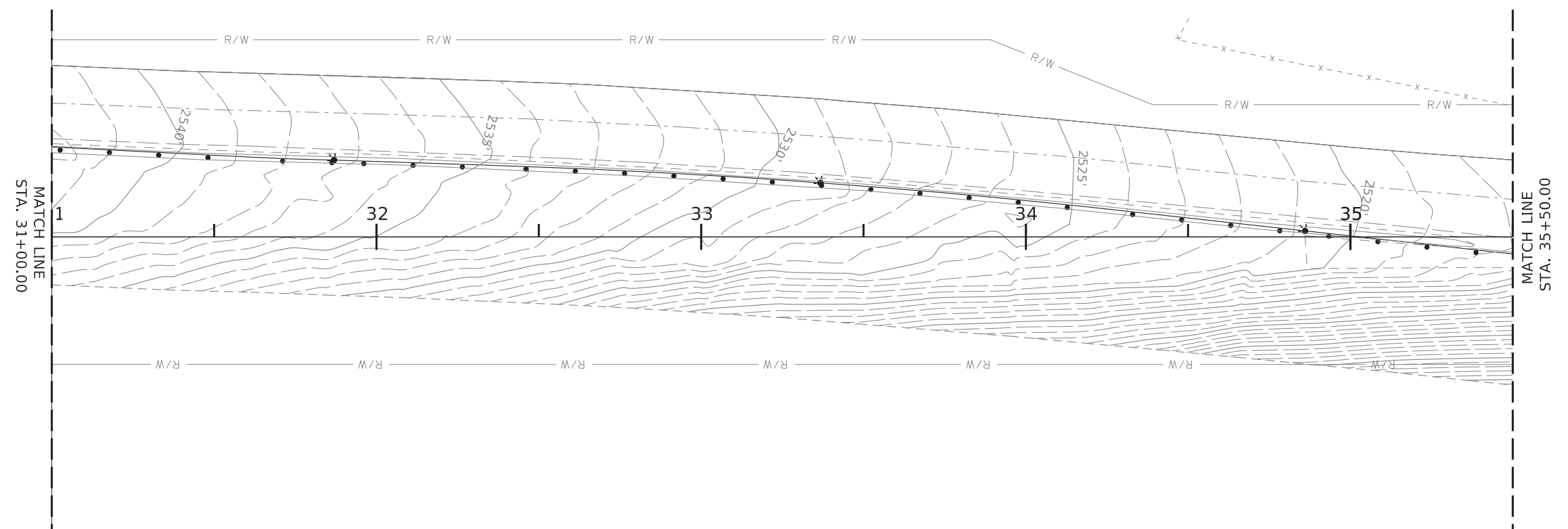
PROJECT NO.  
  
A024(342)

SIGN PLANS  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO  
STA. 22+00.00 TO STA. 31+00.00

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 78 OF 101

BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 31+86.91	23.66 L
1 EA	STA. 33+36.75	16.64 L
1 EA	STA. 34+86.01	1.82 L
1 EA	STA. 36+35.38	11.95 R
1 EA	STA. 37+05.14	12.10 R
1 EA	STA. 37+73.71	12.50 R
1 EA	STA. 38+42.25	12.60 R
1 EA	STA. 39+10.79	12.39 R
1 EA	STA. 39+79.38	11.88 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_003.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

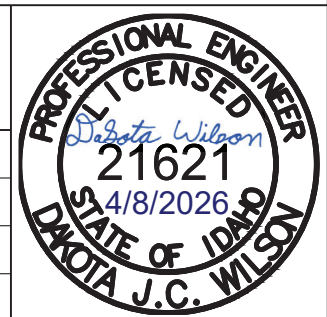
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

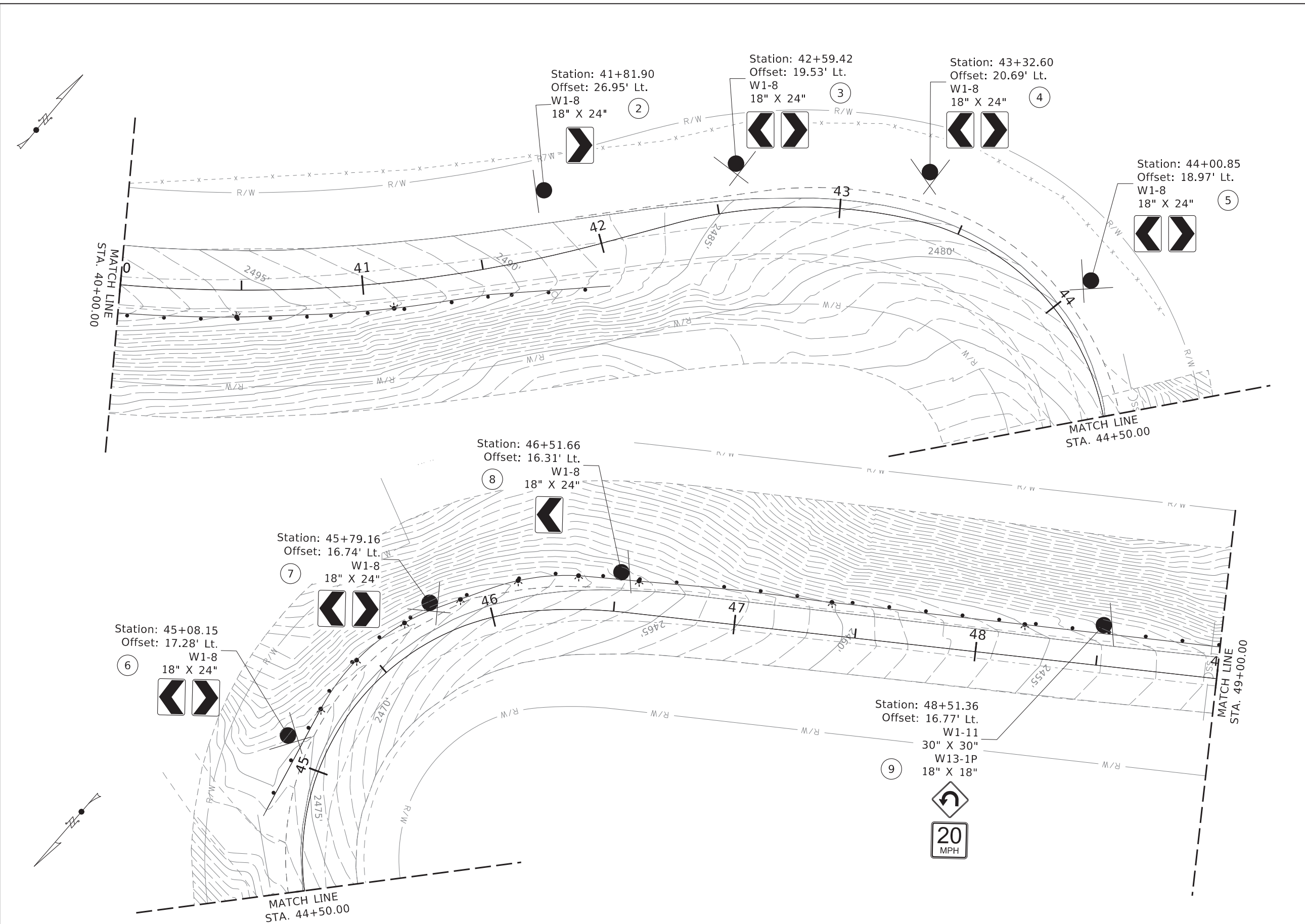
SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 31+00.00 TO STA. 40+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 79 OF 101



BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 40+48.04	11.07 R
1 EA	STA. 41+11.86	10.79 R
1 EA	STA. 45+22.27	10.73 L
1 EA	STA. 45+44.78	12.09 L
1 EA	STA. 45+67.19	11.96 L
1 EA	STA. 45+89.71	10.80 L
1 EA	STA. 46+12.06	13.00 L
1 EA	STA. 46+35.31	13.93 L
1 EA	STA. 46+58.97	13.45 L
1 EA	STA. 47+38.97	13.57 L
1 EA	STA. 48+18.97	13.36 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_004.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

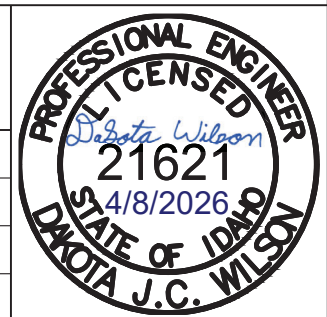
YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

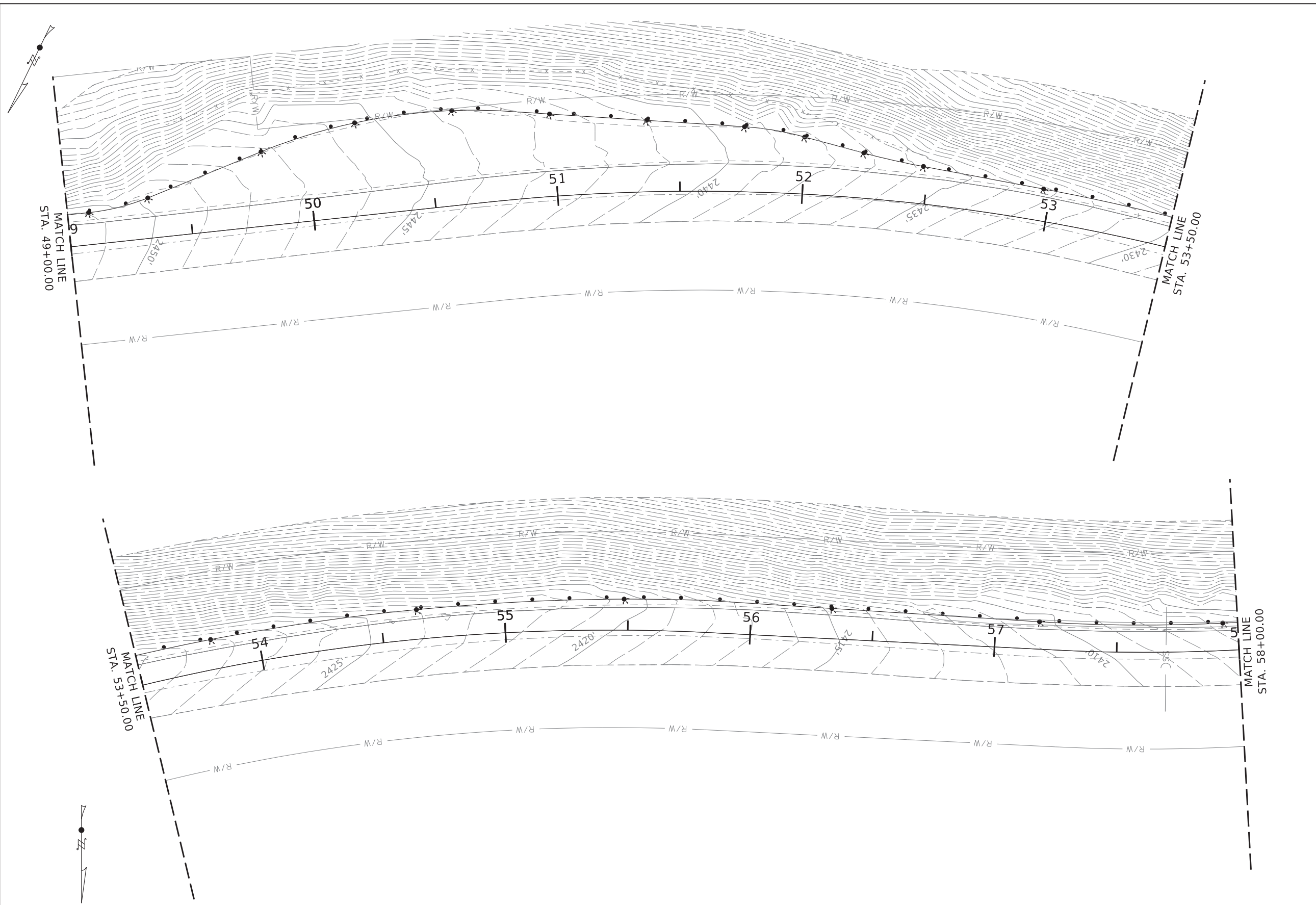
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO STA. 40+00.00 TO STA. 49+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 80 OF 101





BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 49+08.65	13.12 L
1 EA	STA. 49+33.34	16.50 L
1 EA	STA. 49+81.39	30.33 L
1 EA	STA. 50+20.64	38.01 L
1 EA	STA. 50+60.64	38.77 L
1 EA	STA. 50+99.03	33.68 L
1 EA	STA. 51+37.06	29.22 L
1 EA	STA. 51+75.79	26.59 L
1 EA	STA. 51+99.80	23.32 L
1 EA	STA. 52+23.71	18.43 L
1 EA	STA. 52+48.00	15.29 L
1 EA	STA. 52+97.11	13.09 L
1 EA	STA. 53+80.85	12.23 L
1 EA	STA. 54+64.64	12.10 L
1 EA	STA. 55+48.41	12.67 L
1 EA	STA. 56+32.88	12.36 L
1 EA	STA. 57+17.87	11.20 L
1 EA	STA. 57+93.85	11.20 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC  
DESIGN CHECKED  
DJW  
DETAILED  
SMGC  
DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY  
CADD FILE NAME  
24342\_SIGN\_005.dgn  
DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

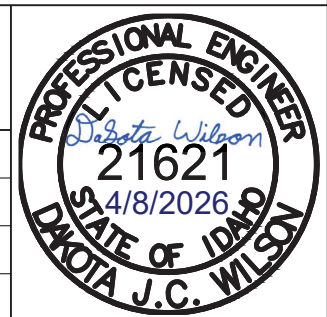
**J-U-B ENGINEERS, INC.**

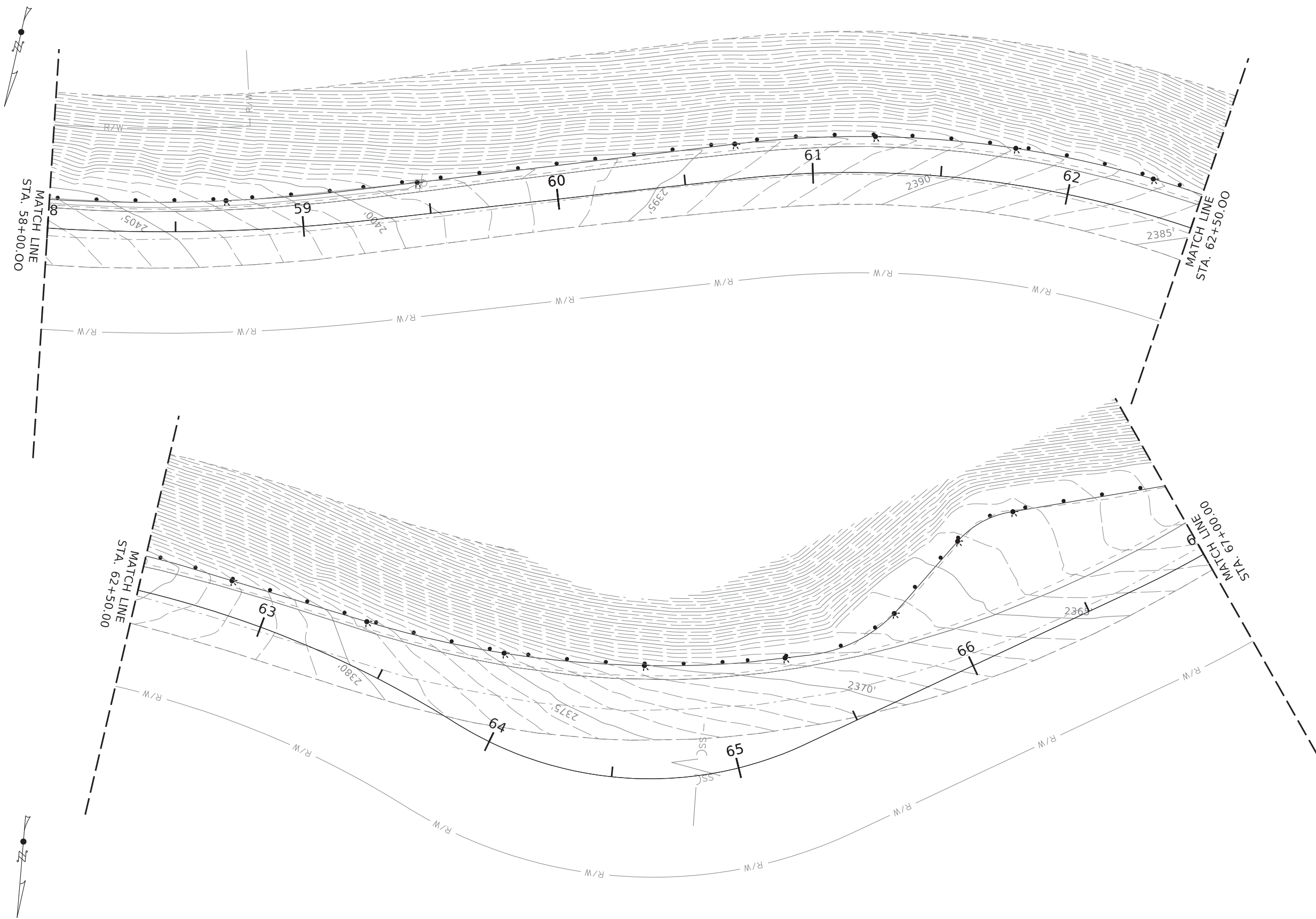


PROJECT NO.  
  
A024(342)

SIGN PLANS  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO  
STA. 49+00.00 TO STA. 58+00.00

**ENGLISH**  
COUNTY  
NEZ PERCE  
KEY NUMBER  
24342  
SHEET 81 OF 101





BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 58+70.11	11.73 L
1 EA	STA. 59+46.06	12.58 L
1 EA	STA. 60+70.93	13.69 L
1 EA	STA. 61+24.16	14.09 L
1 EA	STA. 61+77.36	14.16 L
1 EA	STA. 62+30.58	13.91 L
1 EA	STA. 62+83.83	13.48 L
1 EA	STA. 63+36.65	18.06 L
1 EA	STA. 63+87.14	33.15 L
1 EA	STA. 64+61.87	44.17 L
1 EA	STA. 65+34.80	33.89 L
1 EA	STA. 65+80.77	31.52 L
1 EA	STA. 66+15.13	46.53 L
1 EA	STA. 66+39.57	47.86 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_006.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

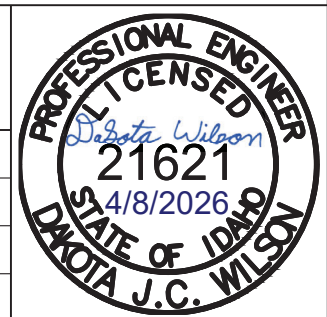
**J-U-B ENGINEERS, INC.**

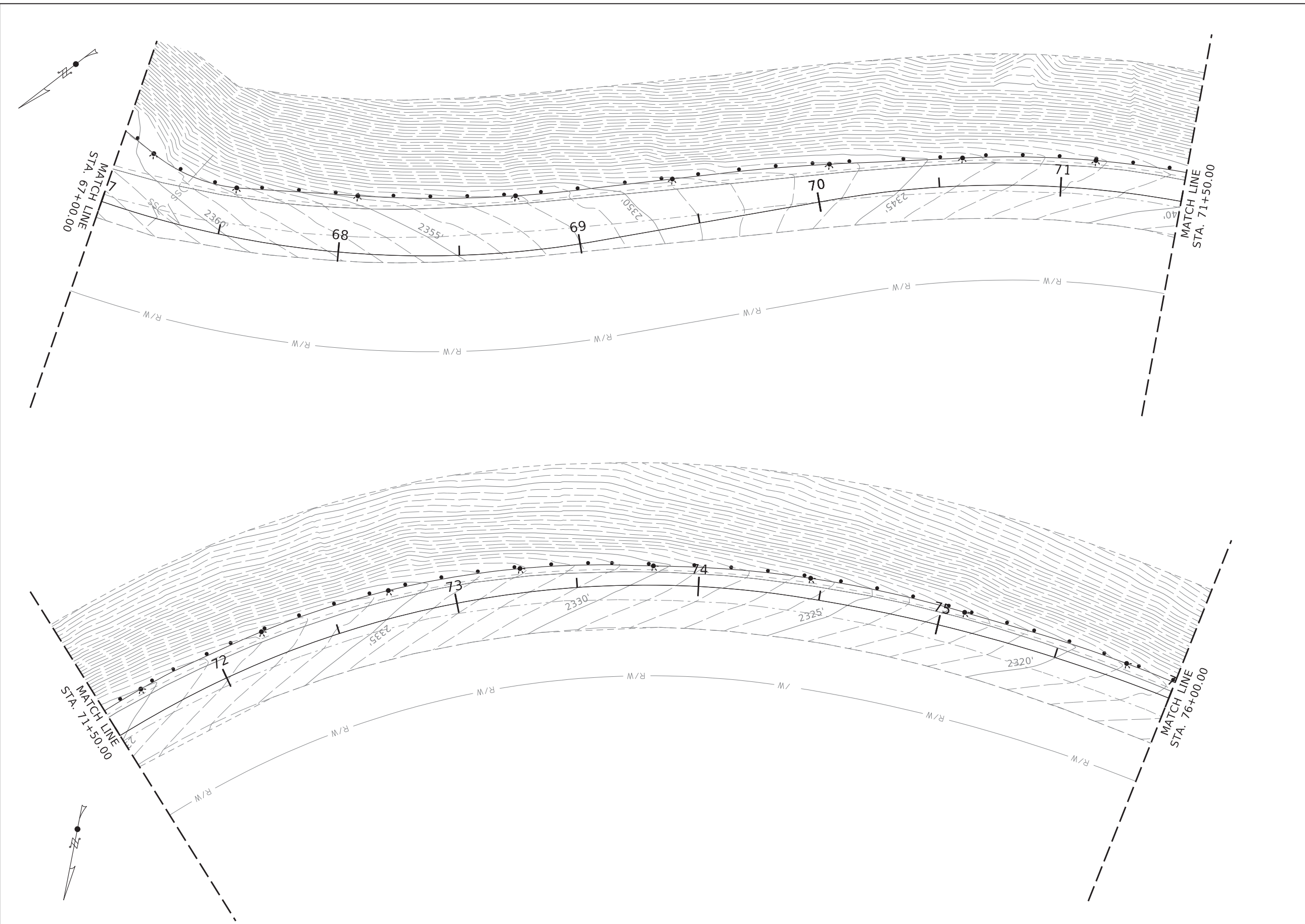


PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 58+00.00 TO STA. 67+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 82 OF 101





BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 67+14.86	25.40 L
1 EA	STA. 67+53.64	20.14 L
1 EA	STA. 68+06.37	23.75 L
1 EA	STA. 68+75.38	23.00 L
1 EA	STA. 69+42.06	19.83 L
1 EA	STA. 70+06.78	14.67 L
1 EA	STA. 70+59.96	11.52 L
1 EA	STA. 71+13.47	11.93 L
1 EA	STA. 71+66.93	12.15 L
1 EA	STA. 72+20.41	11.71 L
1 EA	STA. 72+73.94	11.37 L
1 EA	STA. 73+27.56	10.05 L
1 EA	STA. 73+81.38	7.95 L
1 EA	STA. 74+45.19	8.38 L
1 EA	STA. 75+09.48	7.64 L
1 EA	STA. 75+78.79	7.19 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_007.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

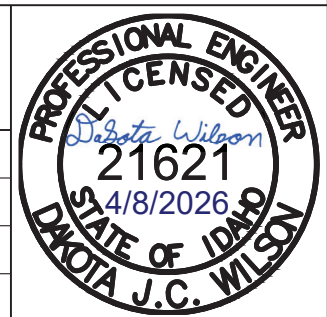
**J-U-B ENGINEERS, INC.**



PROJECT NO.
A024(342)

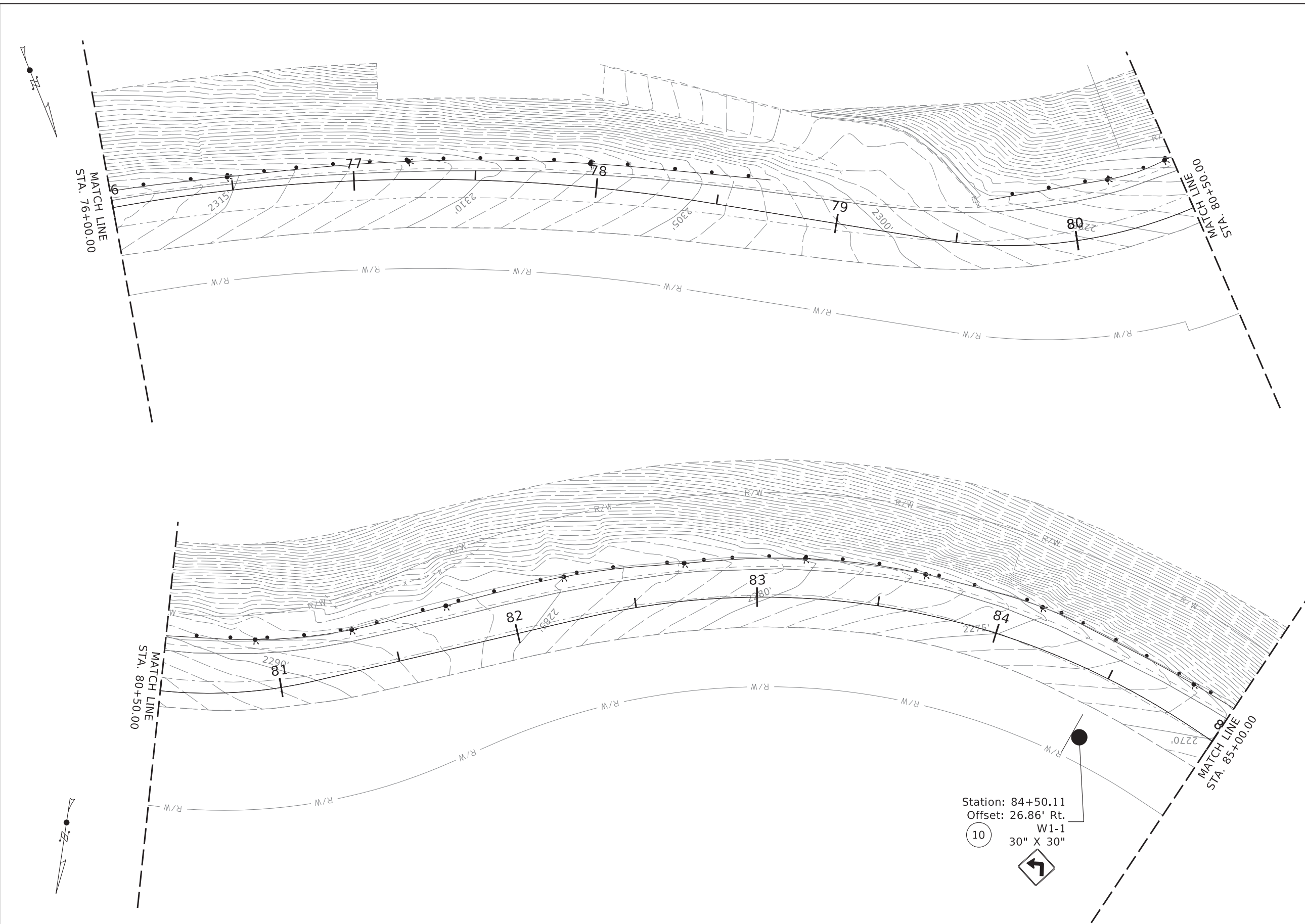
SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 67+00.00 TO STA. 76+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 83 OF 101



BASE SET

617-045A	DELINATOR TY 9	
1 EA	STA. 76+48.18	5.64 L
1 EA	STA. 77+22.51	7.46 L
1 EA	STA. 77+96.62	9.77 L
1 EA	STA. 80+18.11	13.70 R
1 EA	STA. 80+46.36	22.64 L
1 EA	STA. 80+91.58	20.97 L
1 EA	STA. 81+33.74	17.08 L
1 EA	STA. 81+73.73	17.86 L
1 EA	STA. 82+23.73	18.45 L
1 EA	STA. 82+71.45	15.57 L
1 EA	STA. 83+19.10	16.37 L
1 EA	STA. 83+66.71	16.25 L
1 EA	STA. 84+14.32	16.36 L
1 EA	STA. 84+81.11	15.39 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_008.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

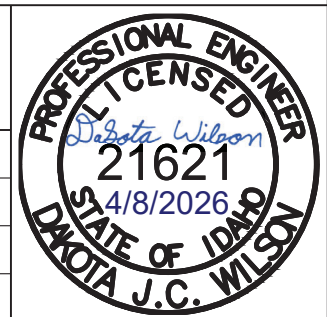


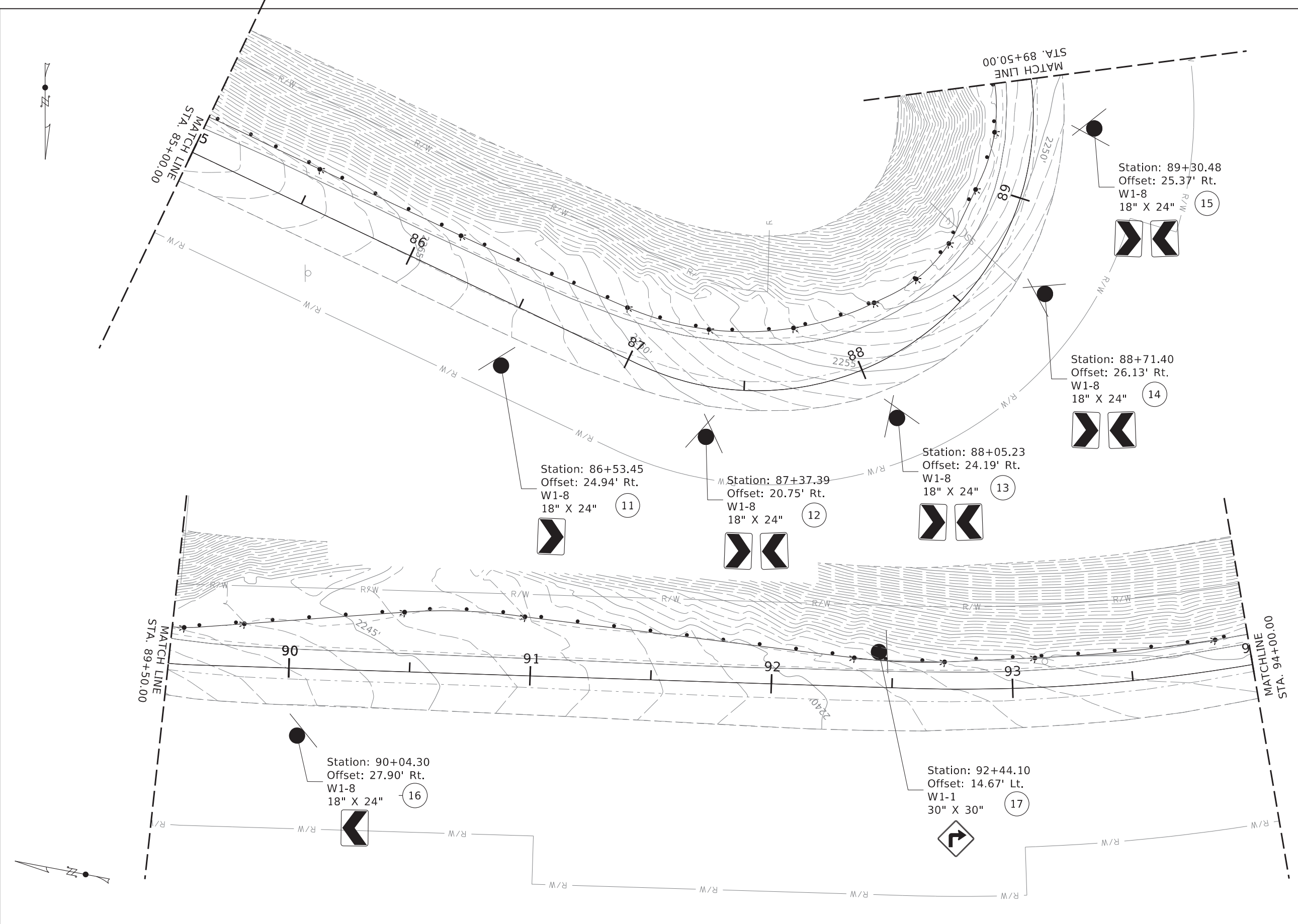
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 76+00.00 TO STA. 85+00.00

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 84 OF 101





**BASE SET**

617-045A	DELINATOR TY 9	
1 EA	STA. 85+50.71	16.33 L
1 EA	STA. 86+15.38	16.53 L
1 EA	STA. 86+90.47	19.24 L
1 EA	STA. 87+30.31	23.22 L
1 EA	STA. 87+74.81	24.72 L
1 EA	STA. 88+19.10	22.56 L
1 EA	STA. 88+43.37	19.57 L
1 EA	STA. 88+67.39	18.64 L
1 EA	STA. 88+97.34	18.69 L
1 EA	STA. 89+26.65	15.75 L
1 EA	STA. 89+55.64	15.31 L
1 EA	STA. 89+80.93	17.70 L
1 EA	STA. 90+47.13	24.69 L
1 EA	STA. 90+97.03	24.40 L
1 EA	STA. 92+33.96	11.88 L
1 EA	STA. 92+71.67	11.21 L
1 EA	STA. 93+09.79	12.27 L
1 EA	STA. 93+86.14	12.55 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_009.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety-YOUR Mobility-YOUR Economic Opportunity

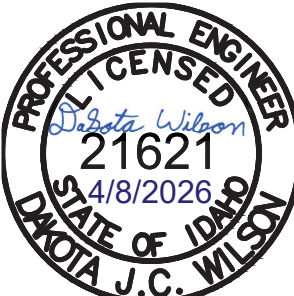


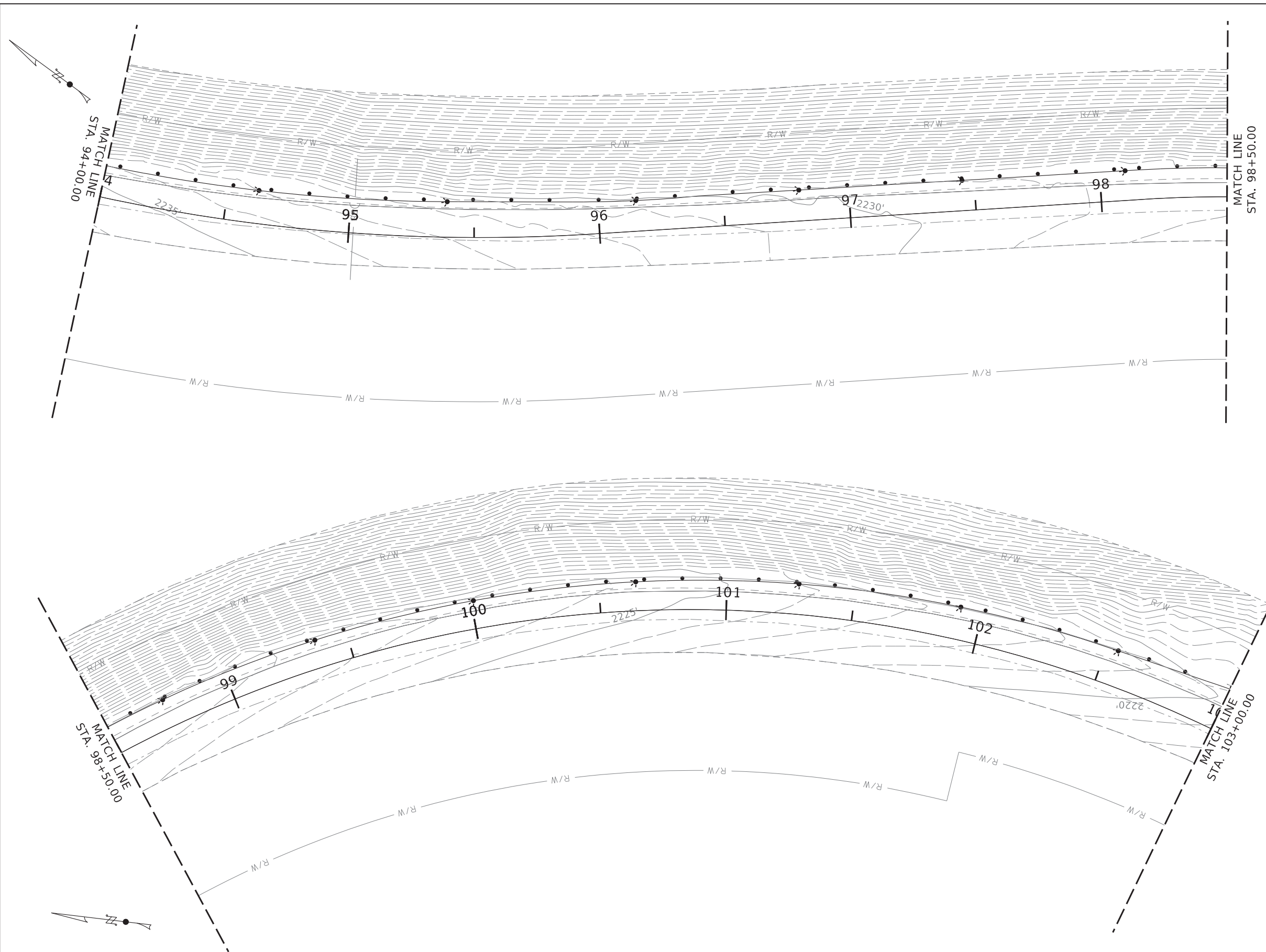
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 85+00.00 TO STA. 94+00.00

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 85 OF 101





BASE SET

617-045A	DELINEATOR TY 9		
1 EA	STA. 94+62.55	13.17	L
1 EA	STA. 95+39.04	14.13	L
1 EA	STA. 96+15.14	12.23	L
1 EA	STA. 96+80.14	12.33	L
1 EA	STA. 97+45.14	12.09	L
1 EA	STA. 98+10.14	11.85	L
1 EA	STA. 98+73.82	11.38	L
1 EA	STA. 99+37.37	11.14	L
1 EA	STA. 100+00.93	11.19	L
1 EA	STA. 100+64.47	11.51	L
1 EA	STA. 101+27.94	12.11	L
1 EA	STA. 101+91.32	12.97	L
1 EA	STA. 102+54.57	14.08	L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_010.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

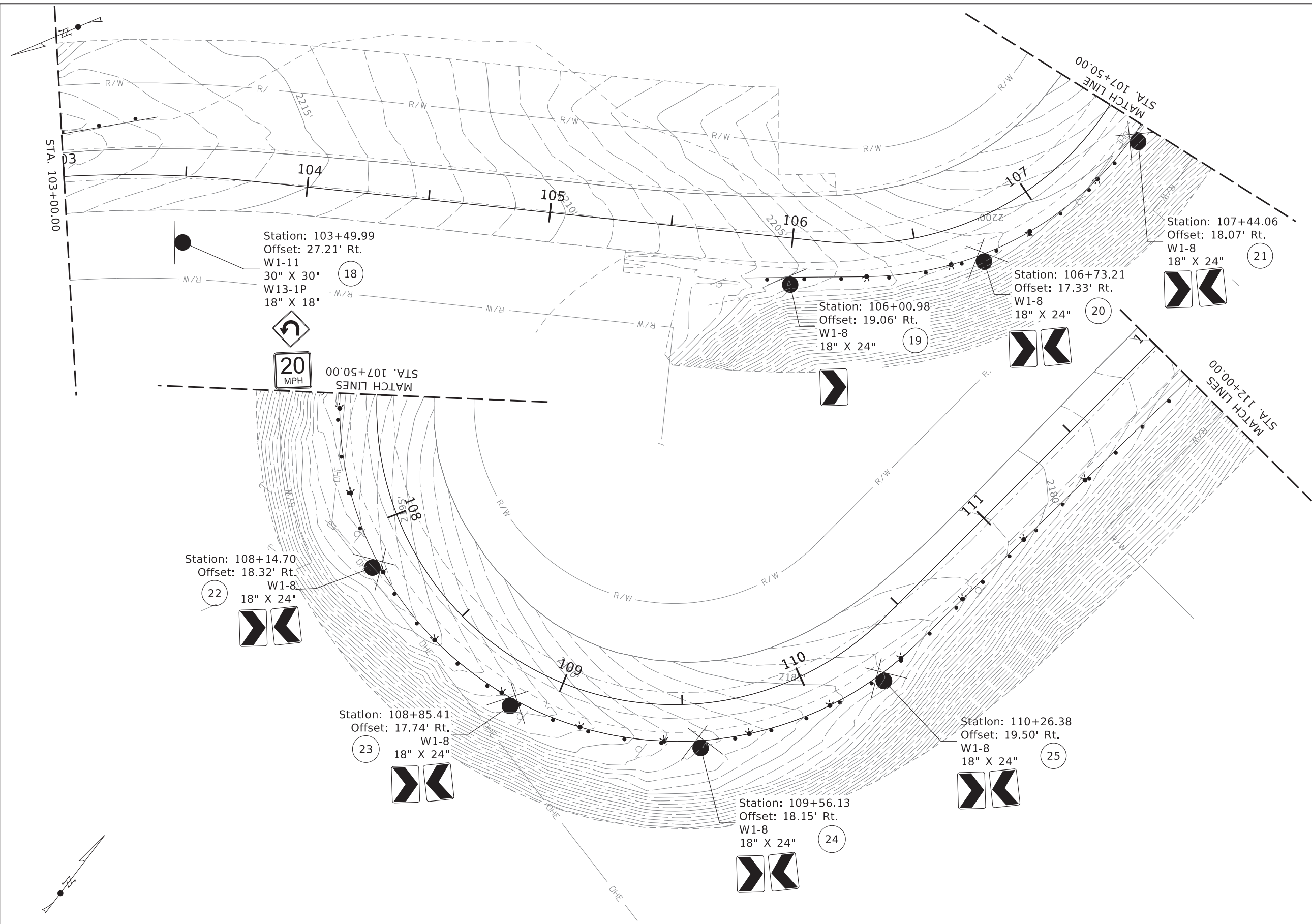


PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 94+00.00 TO STA. 103+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 86 OF 101

**PROFESSIONAL ENGINEER**  
LICENSED  
*Debra Wilson*  
**21621**  
4/8/2026  
**STATE OF IDAHO**  
DAKOTA J.C. WILSON



BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 106+30.07	13.65 R
1 EA	STA. 106+61.57	14.16 R
1 EA	STA. 106+92.96	14.59 R
1 EA	STA. 107+24.27	14.92 R
1 EA	STA. 107+55.51	15.14 R
1 EA	STA. 107+86.72	15.21 R
1 EA	STA. 108+17.93	14.95 R
1 EA	STA. 108+49.17	15.15 R
1 EA	STA. 108+80.45	14.75 R
1 EA	STA. 109+11.76	14.77 R
1 EA	STA. 109+43.04	15.00 R
1 EA	STA. 109+74.24	15.42 R
1 EA	STA. 110+05.32	16.02 R
1 EA	STA. 110+36.25	16.74 R
1 EA	STA. 110+70.40	17.30 R
1 EA	STA. 111+05.40	17.81 R
1 EA	STA. 111+40.39	18.32 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	
DETAILED SMGC	CADD FILE NAME 24342_SIGN_011.dgn
DRAWING CHECKED JRW	DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

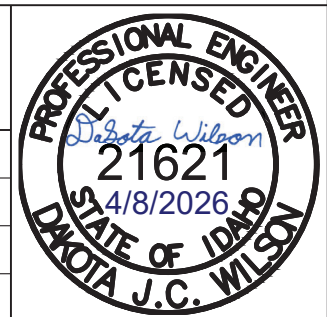
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

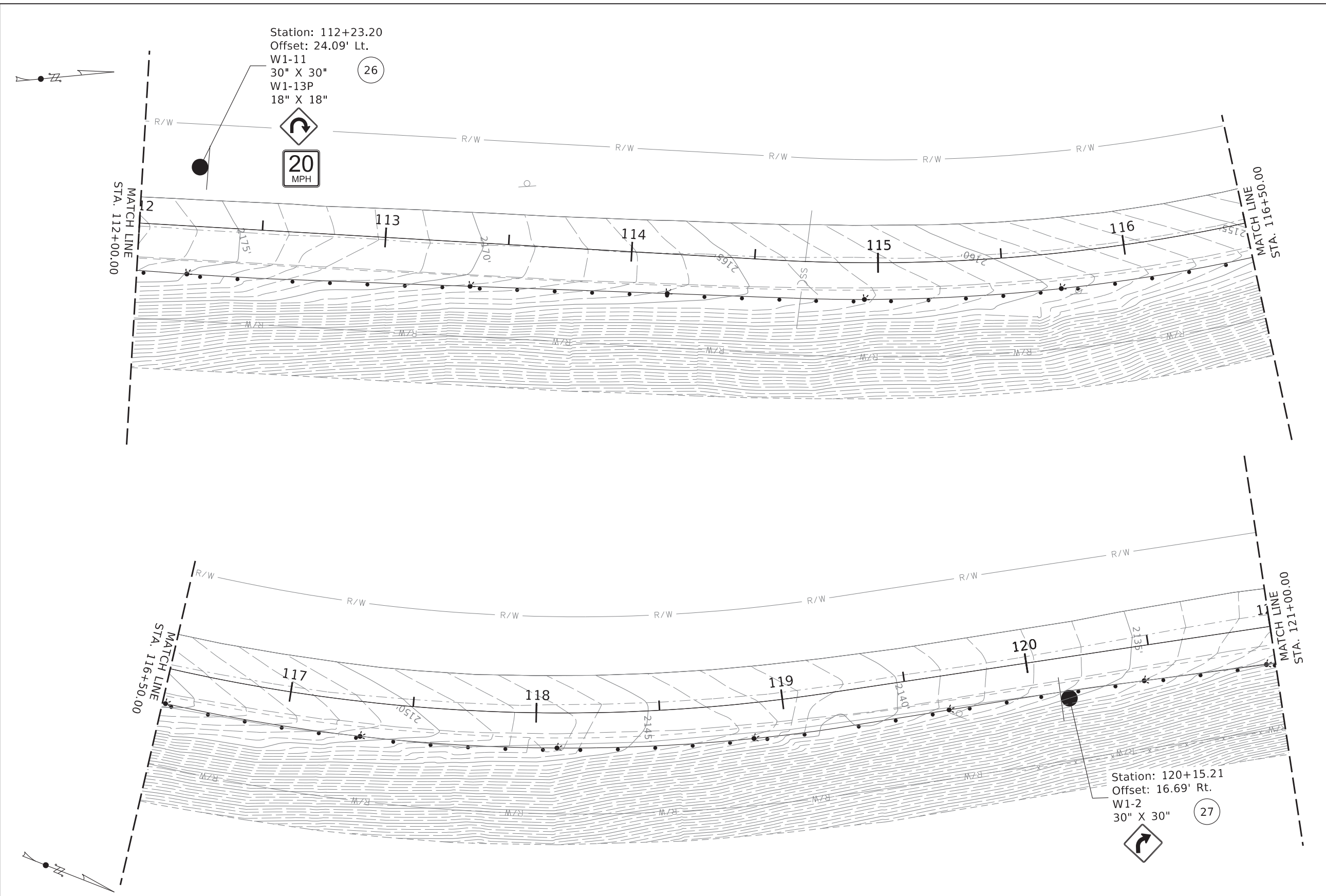
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
------------------------------

SIGN PLANS  OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO STA. 103+00.00 TO STA. 112+00.00
---

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 87 OF 101





**BASE SET**

617-045A	DELINEATOR TY 9		
1 EA	STA. 112+20.38	19.48	R
1 EA	STA. 113+35.37	17.79	R
1 EA	STA. 114+15.35	16.09	R
1 EA	STA. 114+94.54	14.89	R
1 EA	STA. 115+72.97	14.47	R
1 EA	STA. 116+51.44	14.22	R
1 EA	STA. 117+29.93	14.13	R
1 EA	STA. 118+08.42	14.22	R
1 EA	STA. 118+86.88	14.48	R
1 EA	STA. 119+66.27	14.10	R
1 EA	STA. 120+46.27	14.19	R
1 EA	STA. 120+96.26	15.08	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_012.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

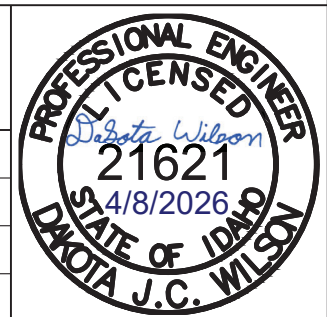
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

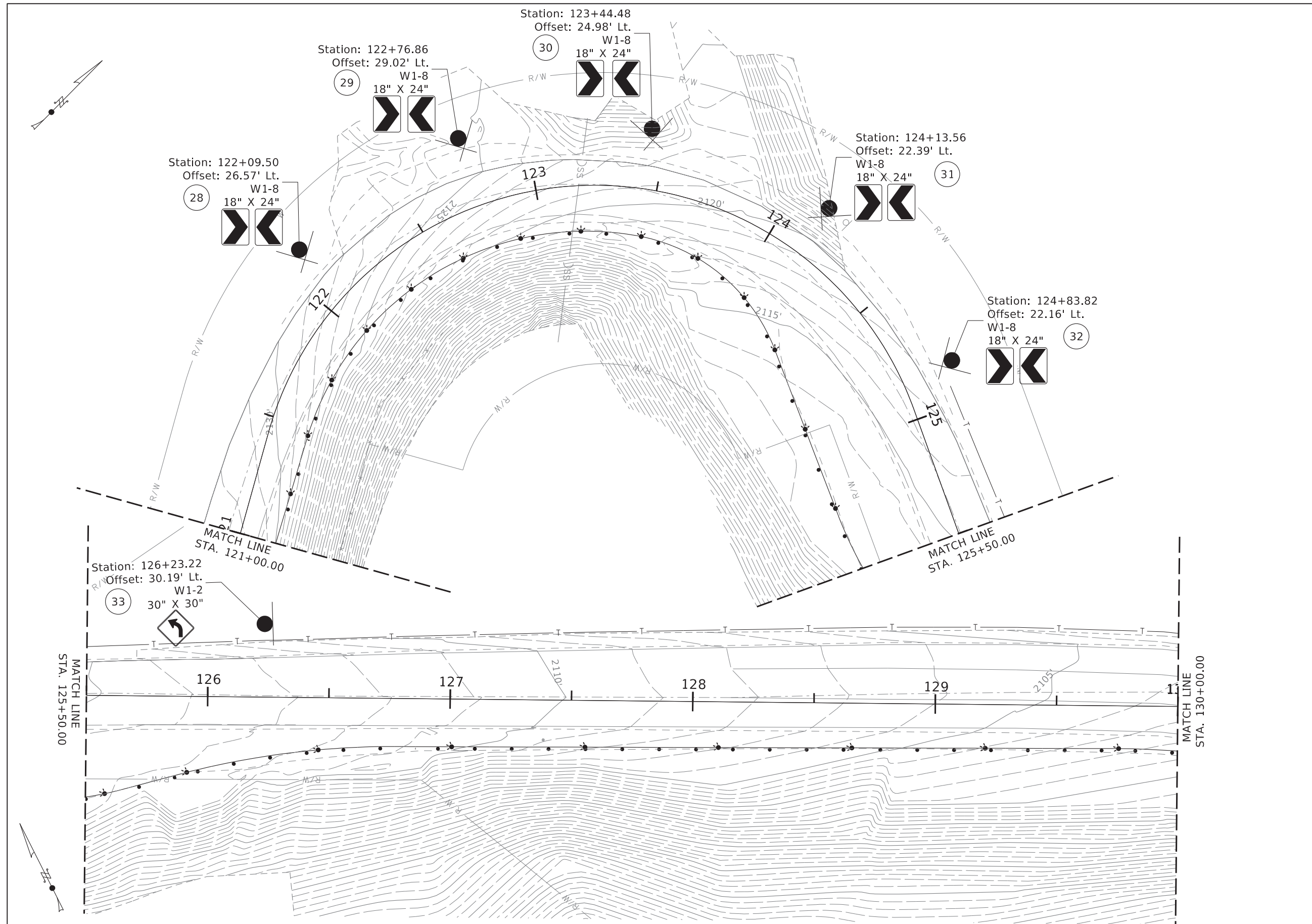
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 112+00.00 TO STA. 121+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 88 OF 101





BASE SET

617-045A	DELINATOR TY 9		
1 EA	STA. 121+21.25	15.53 R	
1 EA	STA. 121+46.69	15.94 R	
1 EA	STA. 121+74.98	16.08 R	
1 EA	STA. 122+03.30	16.37 R	
1 EA	STA. 122+31.72	16.81 R	
1 EA	STA. 122+60.24	17.38 R	
1 EA	STA. 122+88.91	18.05 R	
1 EA	STA. 123+17.74	18.80 R	
1 EA	STA. 123+46.76	19.60 R	
1 EA	STA. 123+76.05	22.21 R	
1 EA	STA. 124+05.78	27.88 R	
1 EA	STA. 124+36.37	36.46 R	
1 EA	STA. 124+84.58	44.62 R	
1 EA	STA. 125+23.09	44.25 R	
1 EA	STA. 125+57.88	40.45 R	
1 EA	STA. 125+91.67	31.31 R	
1 EA	STA. 126+45.79	21.52 R	
1 EA	STA. 127+00.76	19.68 R	
1 EA	STA. 127+55.75	19.26 R	
1 EA	STA. 128+10.75	18.84 R	
1 EA	STA. 128+65.75	18.43 R	
1 EA	STA. 129+20.75	18.01 R	
1 EA	STA. 129+75.75	17.60 R	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_SIGN\_013.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

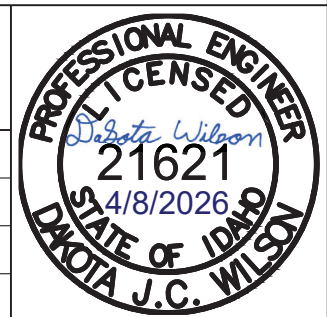
SIGN PLANS  
  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO  
STA. 121+00.00 TO STA. 130+00.00

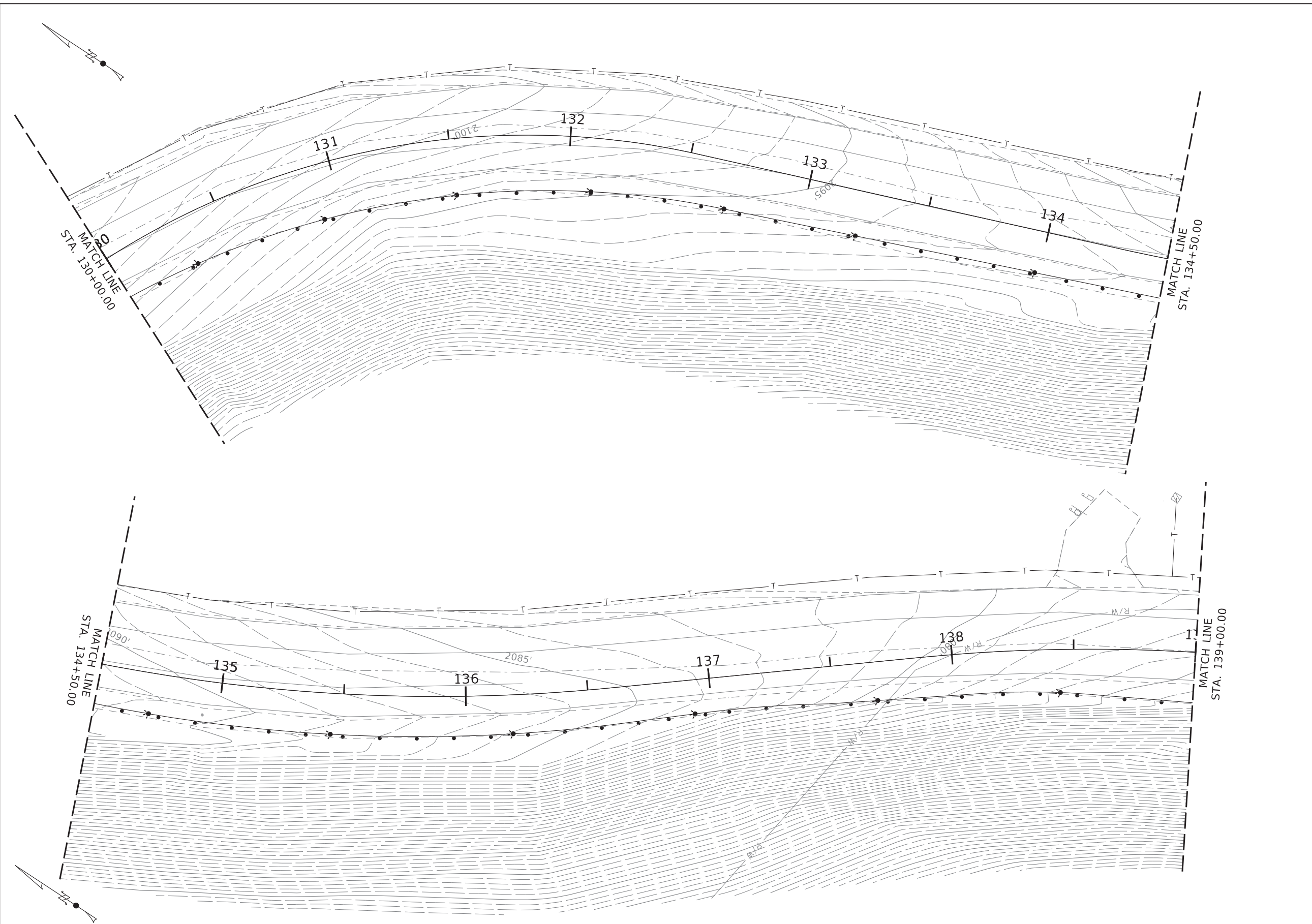
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 89 OF 101





BASE SET

617-045A	DELINEATOR TY 9		
1 EA	STA. 130+32.62	20.38	R
1 EA	STA. 130+91.65	22.65	R
1 EA	STA. 131+51.00	23.22	R
1 EA	STA. 132+10.28	22.06	R
1 EA	STA. 132+68.09	19.63	R
1 EA	STA. 133+23.08	18.60	R
1 EA	STA. 133+98.07	17.19	R
1 EA	STA. 134+72.11	16.70	R
1 EA	STA. 135+45.42	16.82	R
1 EA	STA. 136+18.77	15.95	R
1 EA	STA. 136+92.91	14.00	R
1 EA	STA. 137+67.94	15.86	R
1 EA	STA. 138+44.25	17.67	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_014.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

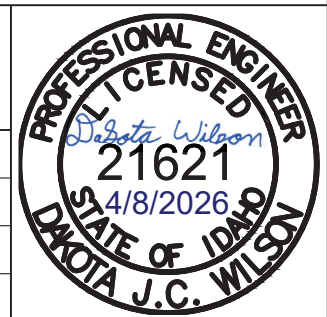
**J-U-B ENGINEERS, INC.**

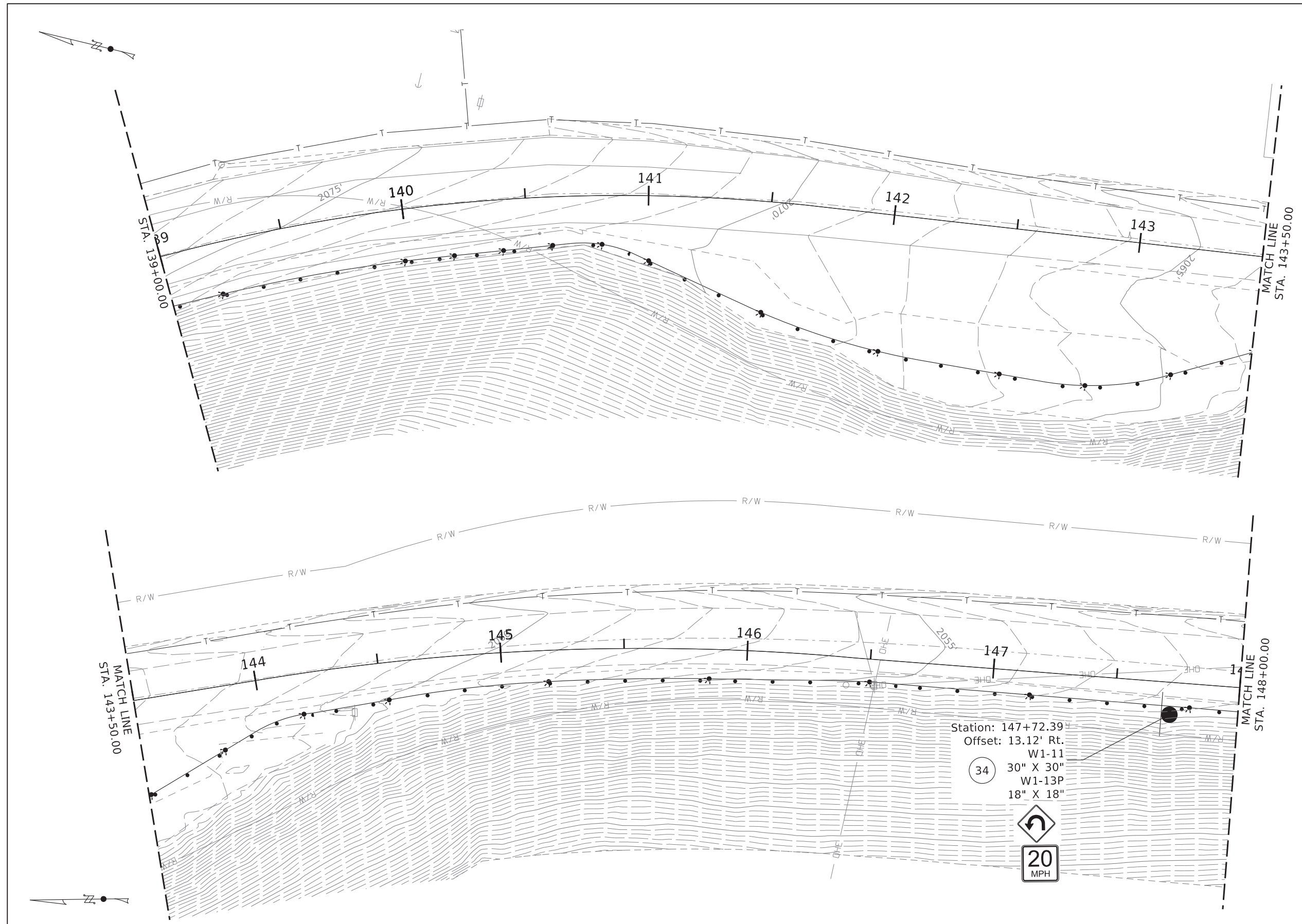


PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 130+00.00 TO STA. 139+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 90 OF 101





BASE SET

617-045A	DELINEATOR TY 9	
1 EA	STA. 139+21.29	20.88 R
1 EA	STA. 139+98.59	20.99 R
1 EA	STA. 140+19.19	21.06 R
1 EA	STA. 140+39.79	20.65 R
1 EA	STA. 140+60.34	19.66 R
1 EA	STA. 140+80.91	19.75 R
1 EA	STA. 141+00.42	26.34 R
1 EA	STA. 141+49.27	44.96 R
1 EA	STA. 141+99.47	55.61 R
1 EA	STA. 142+49.35	59.19 R
1 EA	STA. 142+84.34	59.92 R
1 EA	STA. 143+18.35	51.67 R
1 EA	STA. 143+50.87	38.73 R
1 EA	STA. 143+83.39	25.79 R
1 EA	STA. 144+17.44	16.51 R
1 EA	STA. 144+53.01	15.18 R
1 EA	STA. 145+18.93	12.67 R
1 EA	STA. 145+84.79	11.94 R
1 EA	STA. 146+50.29	9.26 R
1 EA	STA. 147+15.29	9.49 R
1 EA	STA. 147+80.28	9.73 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_015.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

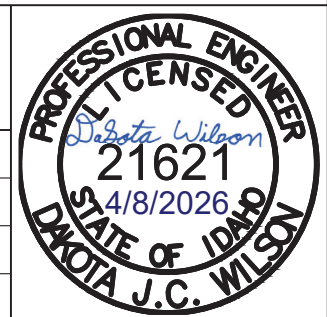
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PROJECT NO.
A024(342)

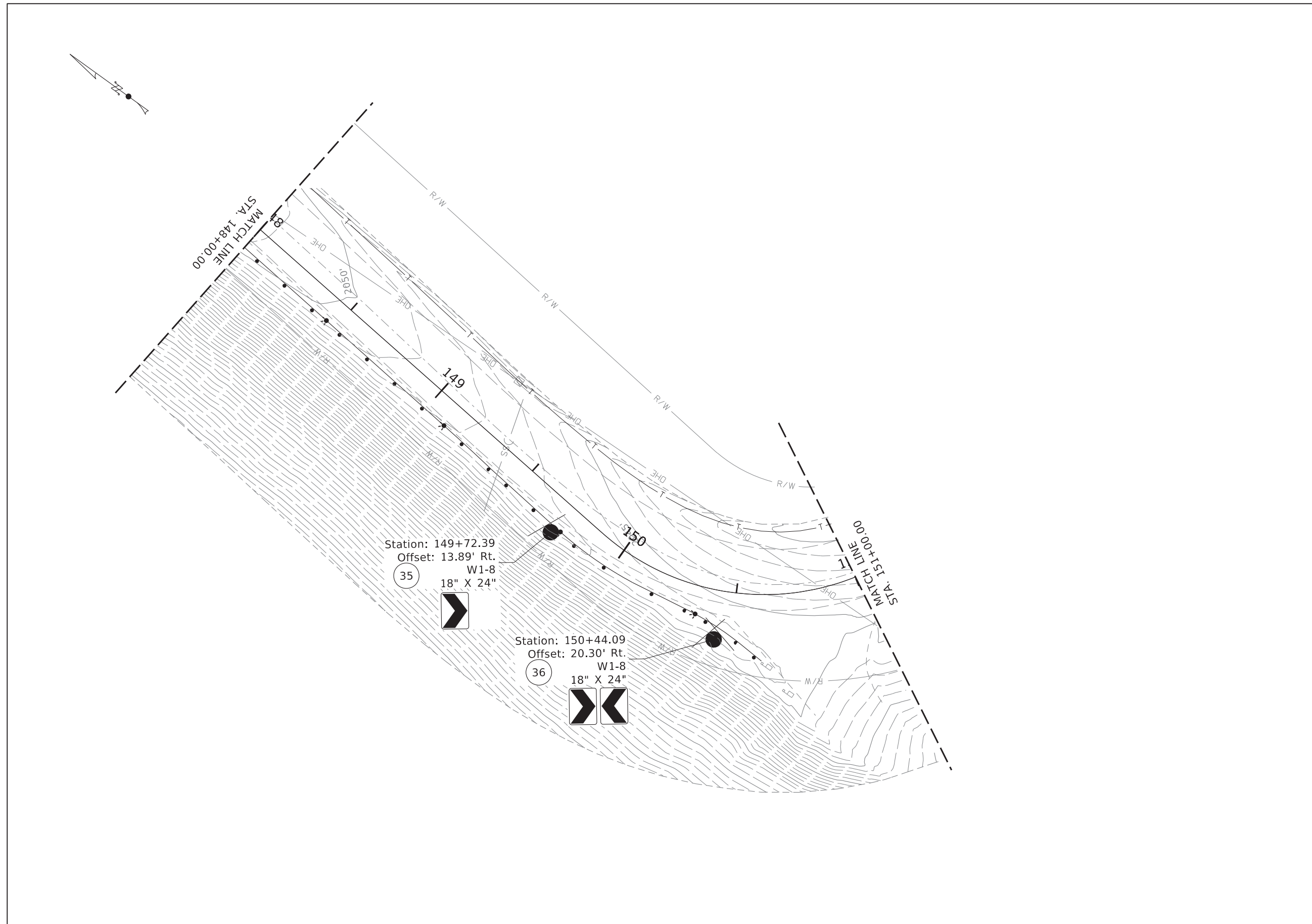
SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 139+00.00 TO STA. 148+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 91 OF 101



BASE SET

617-045A	DELINEATOR TY 9
1 EA	STA. 148+45.28 9.97 R
1 EA	STA. 149+10.28 10.21 R
1 EA	STA. 150+35.68 11.66 R



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_016.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

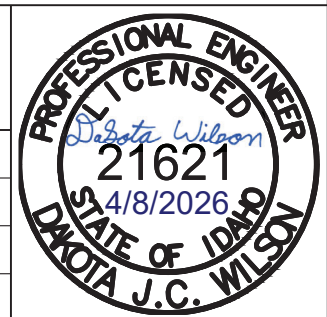
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

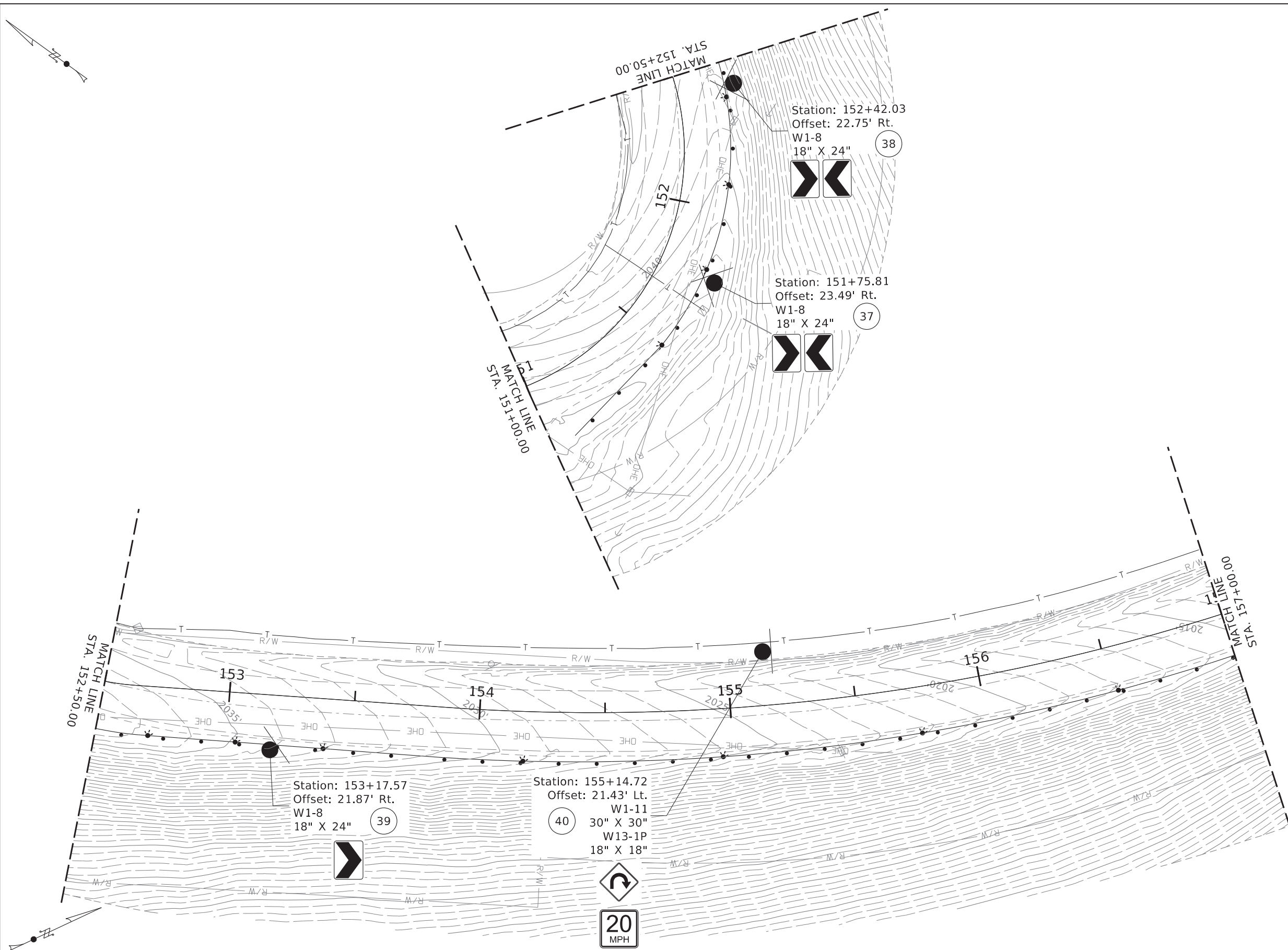
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 148+00.00 TO STA. 151+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 92 OF 101





OPTION A

617-045A	DELINEATOR TY 9		
1 EA	STA. 151+49.21	19.04	R
1 EA	STA. 151+78.81	18.47	R
1 EA	STA. 152+08.49	18.41	R
1 EA	STA. 152+38.12	18.84	R
1 EA	STA. 152+68.58	19.62	R
1 EA	STA. 153+03.54	19.76	R
1 EA	STA. 153+38.72	19.91	R
1 EA	STA. 154+17.85	19.83	R
1 EA	STA. 154+96.02	19.18	R
1 EA	STA. 155+74.25	18.47	R
1 EA	STA. 156+52.54	17.69	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_017.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
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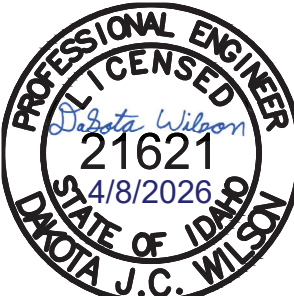


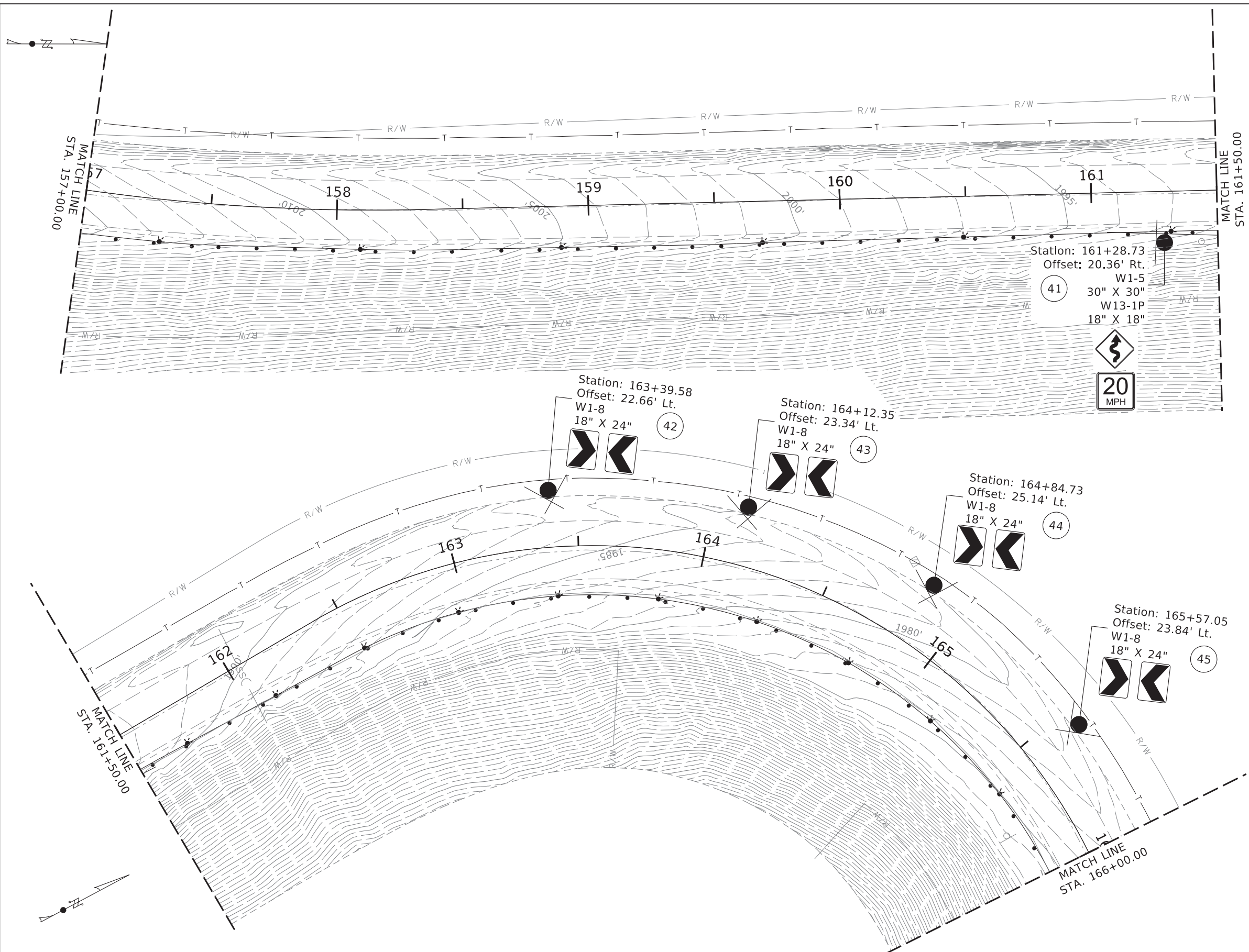
**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 151+00.00 TO STA. 157+00.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 93 OF 101





OPTION A

617-045A	DELINEATOR TY 9	
1 EA	STA. 157+30.91	16.86 R
1 EA	STA. 158+09.38	15.67 R
1 EA	STA. 158+88.90	16.45 R
1 EA	STA. 159+68.90	16.47 R
1 EA	STA. 160+48.90	16.18 R
1 EA	STA. 161+31.47	15.88 R
1 EA	STA. 161+71.46	16.56 R
1 EA	STA. 162+11.44	17.96 R
1 EA	STA. 162+52.62	19.04 R
1 EA	STA. 162+96.51	19.36 R
1 EA	STA. 163+40.59	19.52 R
1 EA	STA. 163+84.41	19.51 R
1 EA	STA. 164+28.49	19.35 R
1 EA	STA. 164+72.38	19.03 R
1 EA	STA. 165+16.15	18.57 R
1 EA	STA. 165+59.84	17.99 R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_018.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

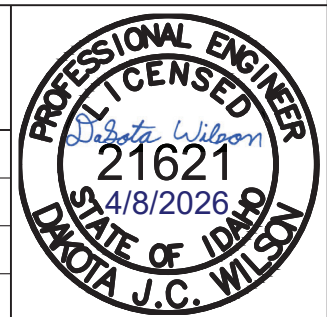
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

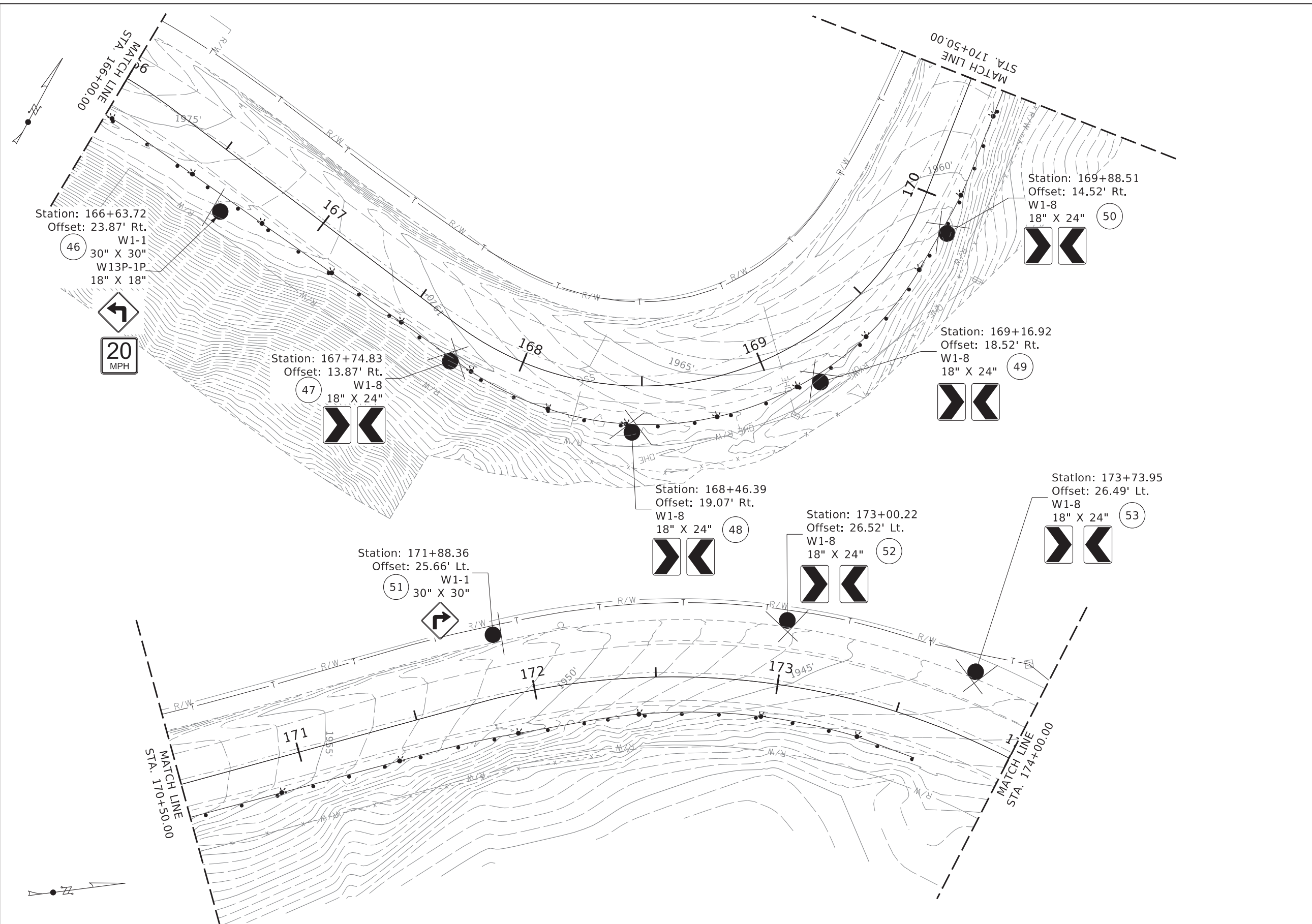
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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SIGN PLANS  OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO STA. 157+00.00 TO STA. 166+00.00
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ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 94 OF 101





OPTION A

617-045A	DELINEATOR TY 9		
1 EA	STA. 166+03.39	17.31	R
1 EA	STA. 166+45.00	16.41	R
1 EA	STA. 166+79.98	15.28	R
1 EA	STA. 167+14.97	14.15	R
1 EA	STA. 167+49.95	13.03	R
1 EA	STA. 167+83.40	12.88	R
1 EA	STA. 168+14.99	14.68	R
1 EA	STA. 168+44.22	15.71	R
1 EA	STA. 168+77.51	16.07	R
1 EA	STA. 169+08.68	15.57	R
1 EA	STA. 169+40.03	14.32	R
1 EA	STA. 169+71.71	12.31	R
1 EA	STA. 170+03.86	13.46	R
1 EA	STA. 170+38.86	13.97	R
1 EA	STA. 170+88.86	14.18	R
1 EA	STA. 171+38.86	14.39	R
1 EA	STA. 171+89.53	16.03	R
1 EA	STA. 172+42.30	14.98	R
1 EA	STA. 172+94.87	13.95	R
1 EA	STA. 173+37.17	14.38	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED DJW	CADD FILE NAME 24342_SIGN_019.dgn
DETAILED SMGC	DRAWING DATE: OCTOBER 2024
DRAWING CHECKED JRW	

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

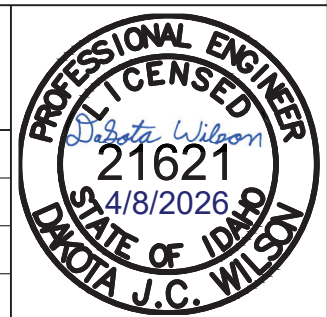


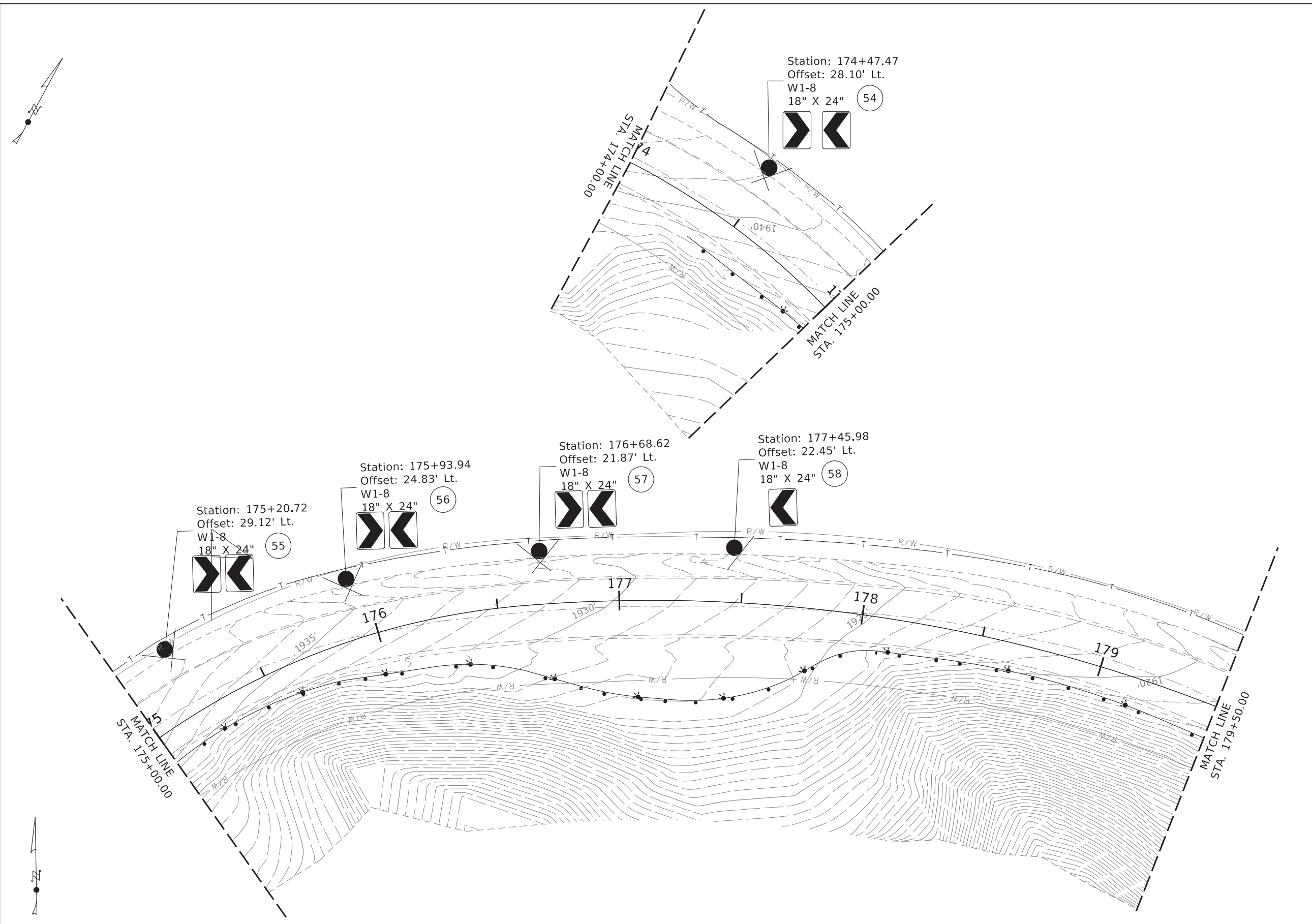
**J-U-B ENGINEERS, INC.**

PROJECT NO.  A024(342)
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SIGN PLANS OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO STA. 166+00.00 TO STA. 174+00.00
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<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 95 OF 101





OPTION B

617-045A	DELINEATOR TY 9		
1 EA	STA. 174+88.68	13.31	R
1 EA	STA. 175+25.13	11.29	R
1 EA	STA. 175+61.56	12.48	R
1 EA	STA. 175+98.06	17.27	R
1 EA	STA. 176+35.23	21.17	R
1 EA	STA. 176+71.43	30.87	R
1 EA	STA. 177+07.33	39.55	R
1 EA	STA. 177+44.65	39.43	R
1 EA	STA. 177+78.57	25.68	R
1 EA	STA. 178+12.53	13.73	R
1 EA	STA. 178+63.50	11.50	R
1 EA	STA. 179+14.45	12.00	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_SIGN\_020.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

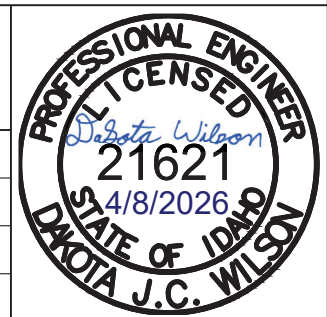
SIGN PLANS  
  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO  
STA. 174+00.00 TO STA. 179+50.00

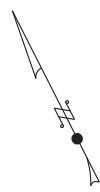
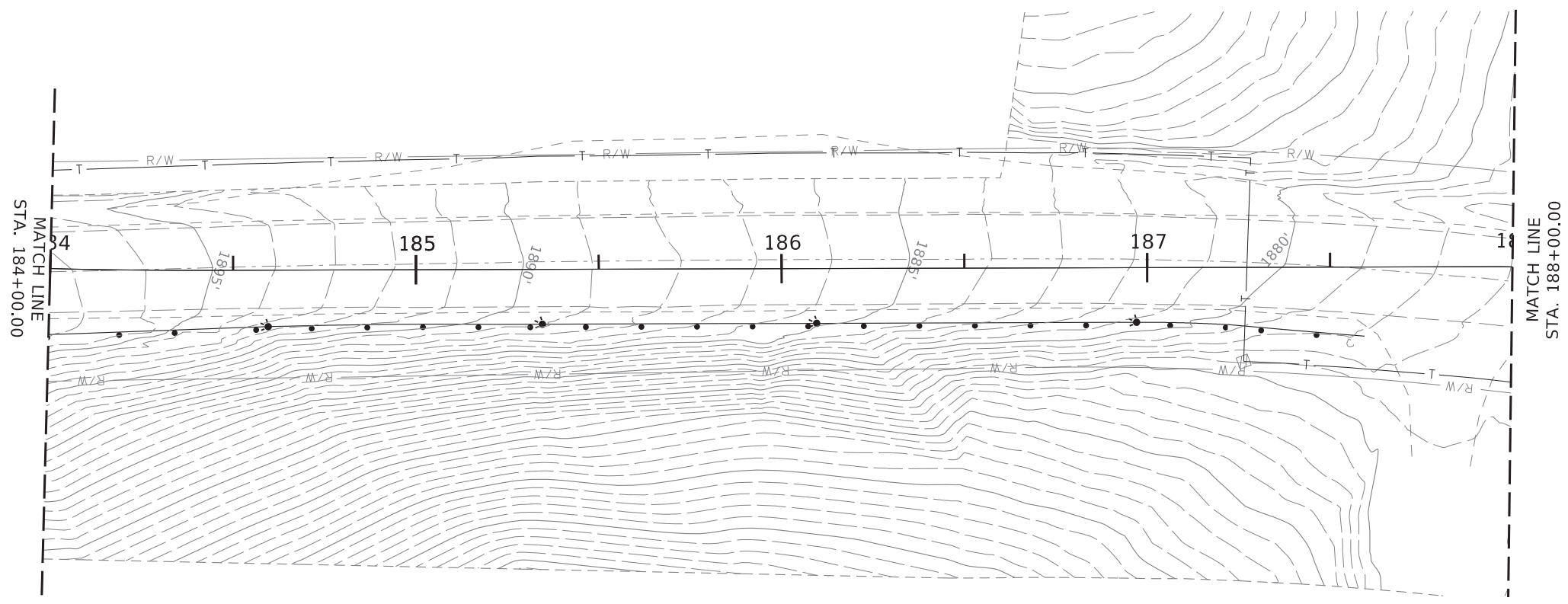
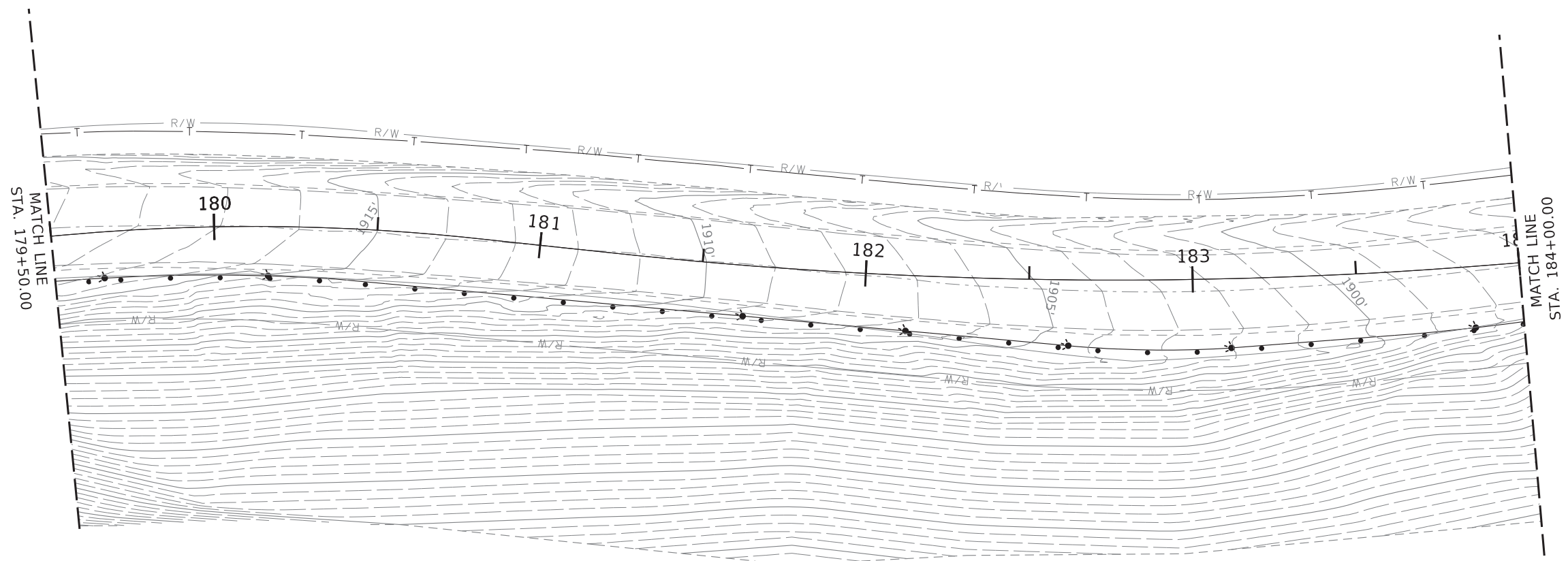
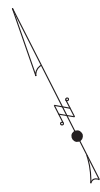
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 96 OF 101





OPTION B

617-045A	DELINEATOR TY 9		
1 EA	STA. 179+65.47	14.14	R
1 EA	STA. 180+16.65	15.12	R
1 EA	STA. 181+63.46	15.55	R
1 EA	STA. 182+12.88	16.99	R
1 EA	STA. 183+62.14	20.16	R
1 EA	STA. 183+11.37	21.20	R
1 EA	STA. 183+85.31	18.74	R
1 EA	STA. 184+59.57	15.48	R
1 EA	STA. 185+34.56	15.01	R
1 EA	STA. 186+09.56	14.98	R
1 EA	STA. 186+97.05	14.93	R

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_021.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

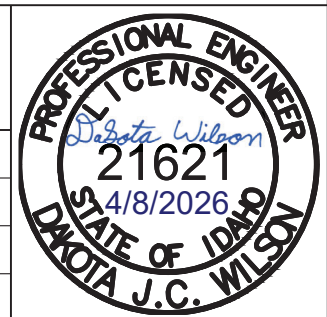
**J-U-B ENGINEERS, INC.**

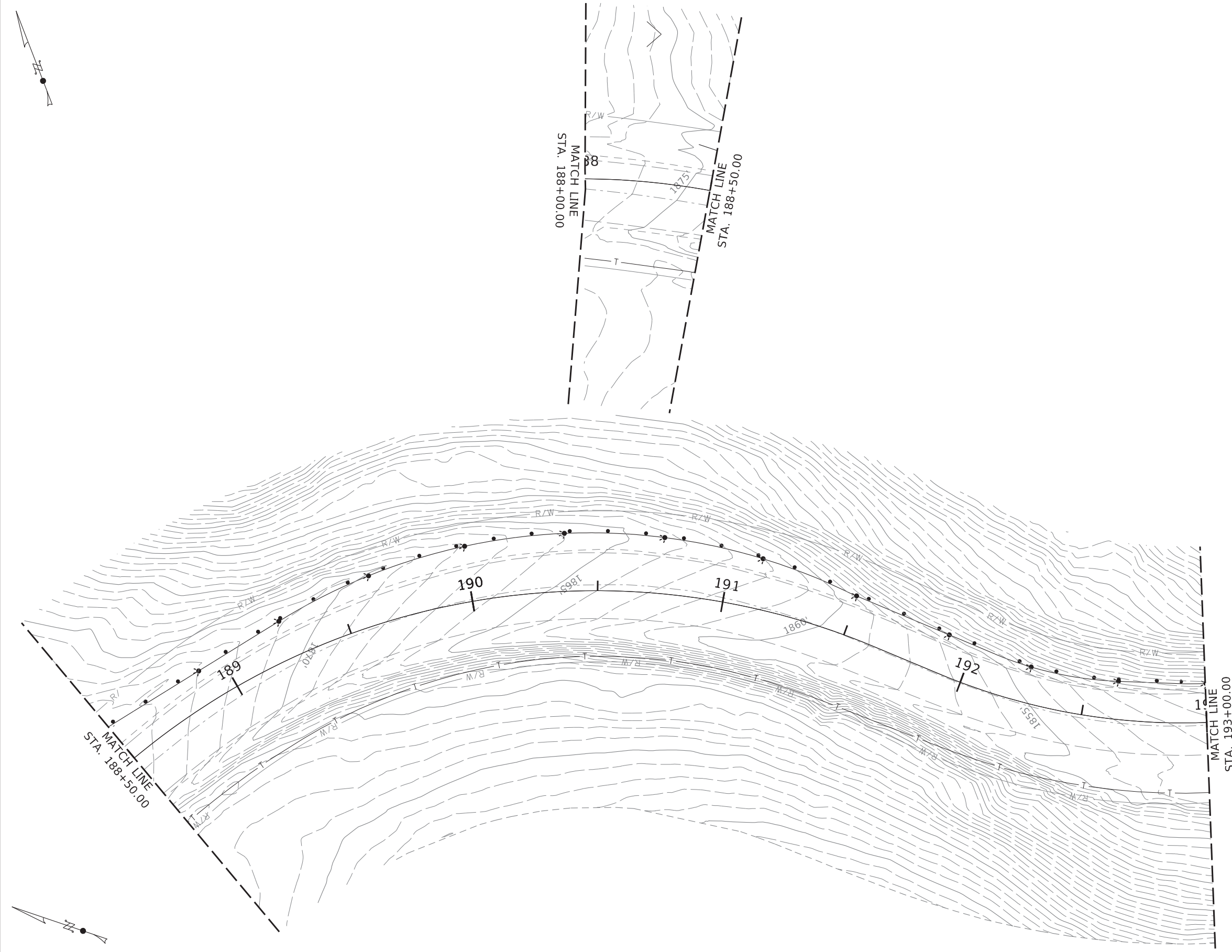


PROJECT NO.  A024(342)
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SIGN PLANS  OLD SPIRAL HWY GUARDRAIL, PH1 NEZ PERCE CO STA. 179+50.00 TO STA. 188+00.00
---

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 97 OF 101





BASE SET

617-045A	DELINEATOR TY 9
1 EA	STA. 188+90.15 13.10 L
1 EA	STA. 189+25.83 15.41 L
1 EA	STA. 189+63.35 19.57 L
1 EA	STA. 190+00.59 22.13 L
1 EA	STA. 190+37.68 23.07 L
1 EA	STA. 190+74.76 22.36 L
1 EA	STA. 191+12.02 18.35 L
1 EA	STA. 191+49.45 16.26 L
1 EA	STA. 191+88.71 15.86 L
1 EA	STA. 192+25.78 14.41 L
1 EA	STA. 192+63.18 15.16 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN  
ARE FOR 11" X 17"  
PRINTS ONLY

CADD FILE NAME  
24342\_SIGN\_022.dgn

DRAWING DATE:  
OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**



PROJECT NO.  
  
A024(342)

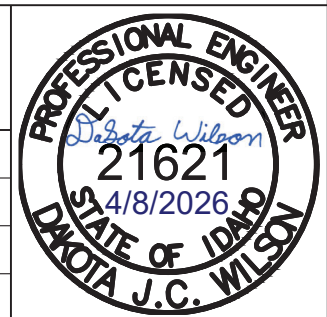
SIGN PLANS  
  
OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO  
STA. 188+00.00 TO STA. 193+00.00

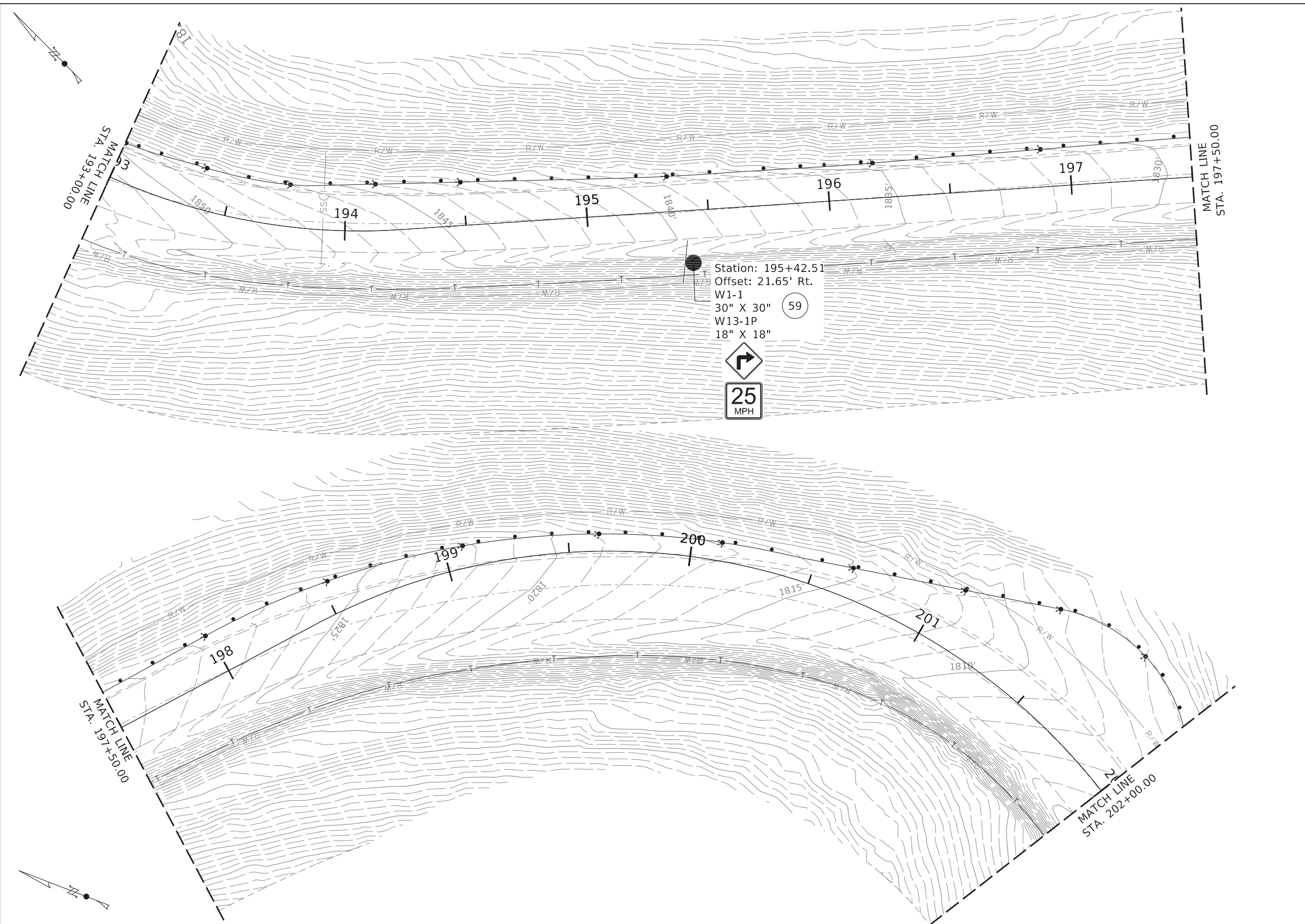
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 98 OF 101





BASE SET

617-045A	DELINATOR TY 9	
1 EA	STA. 193+00.31	15.53 L
1 EA	STA. 193+37.75	17.16 L
1 EA	STA. 193+75.36	17.31 L
1 EA	STA. 194+13.09	19.21 L
1 EA	STA. 194+48.84	17.91 L
1 EA	STA. 195+33.77	14.60 L
1 EA	STA. 196+18.77	14.46 L
1 EA	STA. 196+88.24	15.51 L
1 EA	STA. 197+98.23	17.12 L
1 EA	STA. 198+52.58	13.74 L
1 EA	STA. 199+07.64	9.11 L
1 EA	STA. 199+62.42	7.15 L
1 EA	STA. 200+12.06	7.66 L
1 EA	STA. 200+64.88	12.47 L
1 EA	STA. 201+07.31	25.02 L
1 EA	STA. 201+39.78	41.14 L
1 EA	STA. 201+72.89	50.21 L

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_023.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO**  
**TRANSPORTATION**  
**DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

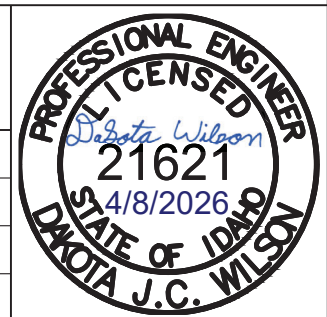


**J-U-B ENGINEERS, INC.**

PROJECT NO.
A024(342)

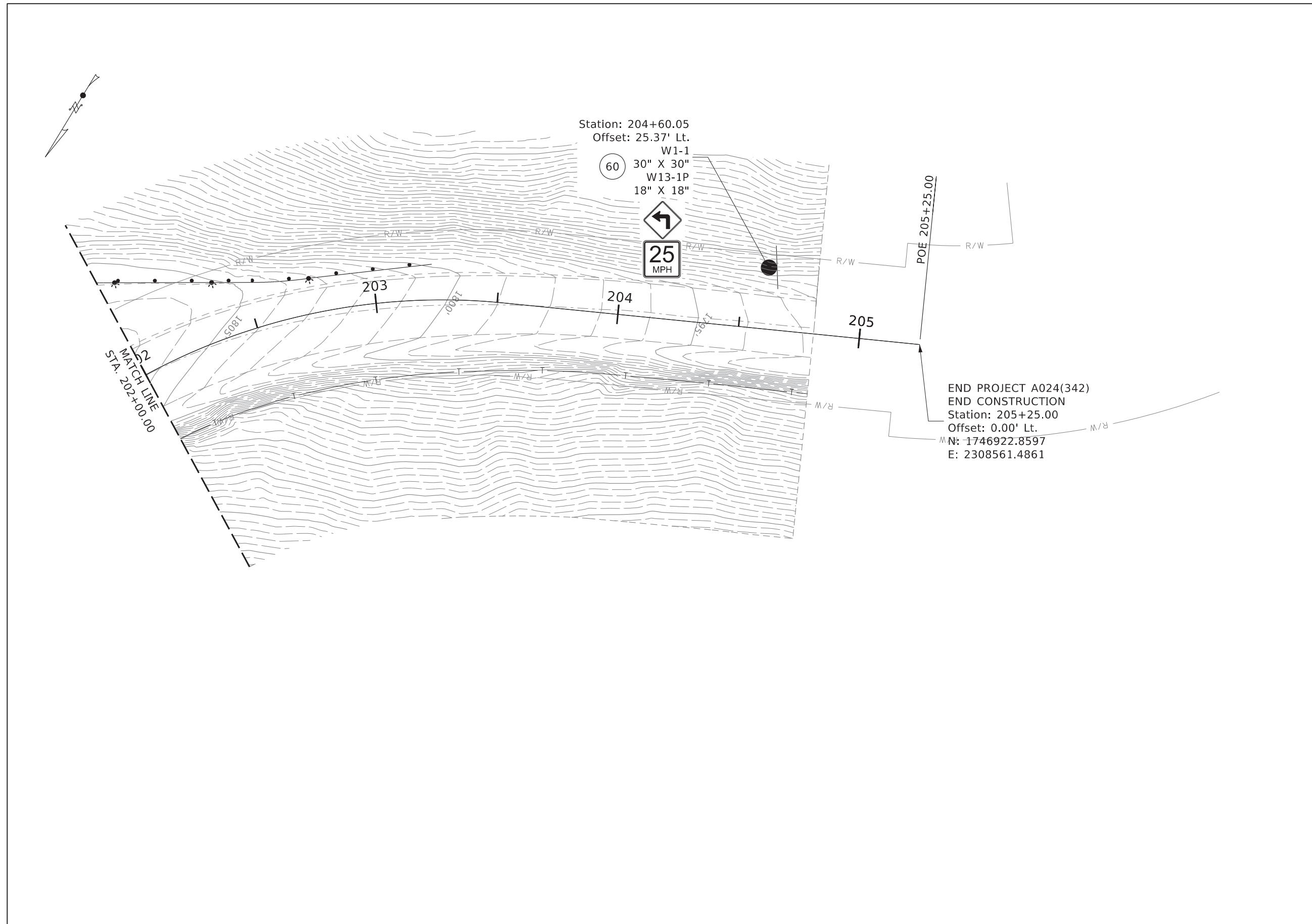
SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 193+00.00 TO STA. 202+00.00

<b>ENGLISH</b>
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 99 OF 101



BASE SET

617-045A	DELINEATOR TY 9
1 EA	STA. 202+05.75 39.56 L
1 EA	STA. 202+38.50 23.71 L
1 EA	STA. 202+74.77 14.50 L



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED SMGC
DESIGN CHECKED DJW
DETAILED SMGC
DRAWING CHECKED JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 24342_SIGN_024.dgn
DRAWING DATE: OCTOBER 2024

**IDAHO  
TRANSPORTATION  
DEPARTMENT**

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

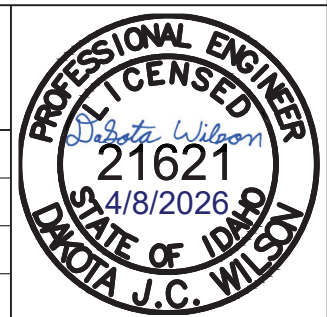
**J-U-B ENGINEERS, INC.**



PROJECT NO.
A024(342)

SIGN PLANS
OLD SPIRAL HWY GUARDRAIL, PH1
NEZ PERCE CO
STA. 202+00.00 TO STA. 205+25.00

ENGLISH
COUNTY NEZ PERCE
KEY NUMBER 24342
SHEET 100 OF 101



**GENERAL NOTES**

- ALL CONSTRUCTION SIGNING SHALL MEET OR EXCEED THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), AS CURRENTLY ADOPTED BY THE STATE.
- ALL EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS, SHALL BE COVERED IN AN APPROVED MANNER WHILE CONSTRUCTION SIGNING IS IN EFFECT.
- IF THE TRAFFIC CONTROL PLAN AS SHOWN DOES NOT CONFORM TO THE CONTRACTOR'S METHOD OF OPERATION, THE CONTRACTOR SHALL SUBMIT A NEW TRAFFIC CONTROL PLAN FOR APPROVAL AT LEAST 48 HOURS BEFORE OPERATIONS BEGIN.
- ALL DISTANCES BETWEEN SIGNS ARE MINIMUMS AND MAY REQUIRE SPACING ADJUSTMENTS IN THE FIELD DEPENDING ON PREVAILING CONDITIONS.
- ALL CONSTRUCTION SIGNING SHALL BE IN PLACE PRIOR TO DIVERSION OF TRAFFIC.
- ADDITIONAL SIGNING MAY BE REQUIRED AS DIRECTED.
- THIS IS A GENERAL REPRESENTATION OF THE PROJECT. THIS TRAFFIC CONTROL PLAN MAY BE USED FOR EACH WORK ZONE BASED ON THE CONTRACTOR'S SEQUENCING OF CONSTRUCTION.
- NO SIGN SHALL BE REMOVED WITHOUT PRIOR APPROVAL. IF ANY SIGNS DESIGNATED FOR REMOVAL ARE NEEDED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEY SHALL BE PLACED ON TEMPORARY SIGN POSTS AND WORKED INTO THE TRAFFIC CONTROL CONSTRUCTION SIGNING SEQUENCES AS DIRECTED.
- ACCESS TO LOCAL RESIDENCES AND EMERGENCY VEHICLE ACCESS SHALL REMAIN OPEN AT ALL TIMES. IF A TEMPORARY CLOSURE IS NECESSARY, IT SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO CLOSURE.
- CONTRACTOR IS RESPONSIBLE FOR ACCOMMODATING ANY PEDESTRIAN AND BICYCLE TRAFFIC NEAR THE WORK ZONE.
- LIMITED SIGHT DISTANCE MAY REQUIRE ADDITIONAL ADJUSTMENT TO THE WORK ZONE.
- CONTRACTOR SHALL MAINTAIN ONE LANE/TWO WAY TRAFFIC WITH THE USE OF FLAGGERS OR RESTORE TWO LANES OF TRAFFIC FOR THE DURATION OF THE PROJECT.
- WIDTH OF SINGLE LANE SHALL NOT BE LESS THAN 12 FEET.

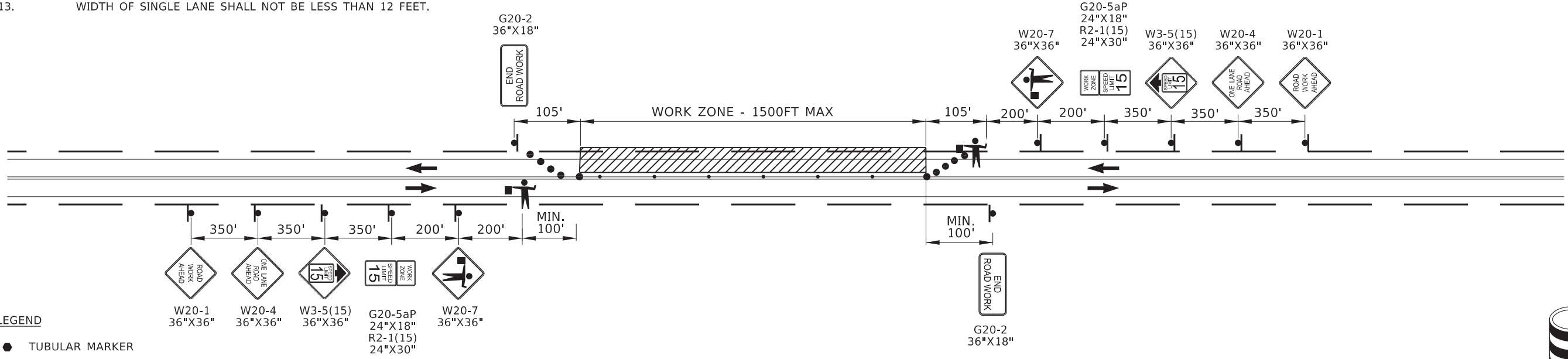
APPROXIMATE QUANTITIES PER MOBILIZATION*					
SIGN NO	DESCRIPTION	SIZE	SQ. FT.	QUANTITIES	SQ. FT. CLASS B
G20-2	END ROAD WORK	36"X18"	4.5	2	9
W20-1	ROAD WORK AHEAD	36"X36"	9	2	18
W20-4	ONE LANE ROAD AHEAD	36"X36"	9	2	18
W20-7	FLAGGER (SYMBOL)	36"X36"	9	2	18
W3-5(35)	REDUCED SPEED LIMIT AHEAD	36"X36"	9	2	18
G20-5aP	WORK ZONE	24"X18"	3	2	6
R2-1(35)	SPEED LIMIT (15)	24"X30"	5	2	10
				TOTAL	97
WEIGHTED BASE TUBULAR MARKERS				50 EA	
TRAFFIC DRUMS				10 EA	
FLAGGERS				HR**	
TRAFFIC CONTROL MAINTENANCE				HR***	

BASE SET:  
 \*ASSUMES 12 TOTAL MOBILIZATIONS  
 \*\*ASSUMES 30 WORKING DAYS \* 8 HOURS \* 2 FLAGGERS = 480 HR  
 \*\*\*ASSUMES 3 HOURS PER MOBILIZATION \* 12 MOBS + 30 WORKING DAYS \* 0.5 HOUR = 51.0 HR

BASE SET + OPTION A  
 \*ASSUMES 14 TOTAL MOBILIZATIONS  
 \*\*ASSUMES 45 WORKING DAYS \* 8 HOURS \* 2 FLAGGERS = 720 HR  
 \*\*\*ASSUMES 3 HOURS PER MOBILIZATION \* 14 MOBS + 45 WORKING DAYS \* 0.5 HOUR = 64.5 HR

BASE SET + OPTION A + OPTION B  
 \*ASSUMES 16 TOTAL MOBILIZATIONS  
 \*\*ASSUMES 55 WORKING DAYS \* 8 HOURS \* 2 FLAGGERS = 880 HR  
 \*\*\*ASSUMES 3 HOURS PER MOBILIZATION \* 16 MOBS + 55 WORKING DAYS \* 0.5 HOUR = 75.5 HR

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

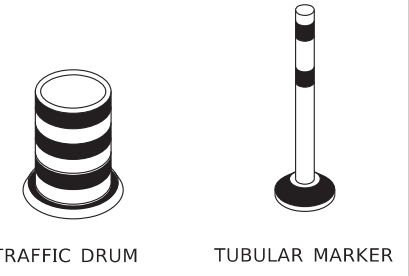


- LEGEND**
- TUBULAR MARKER
  - SIGN LOCATION
  - TRAFFIC DRUM
  - TYPE III BARRICADE
  - TRAFFIC DIRECTION
  - FLAGGER

**NOTE:**

- SPACING BETWEEN CONES, TUBULAR MARKERS, AND DRUMS WILL NOT EXCEED A DISTANCE IN FEET EQUAL TO 1.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TANGENT CHANNELIZATION.

**LANE CLOSURE PLAN - ONE LANE/TWO WAY**  
SCALE: NTS



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED  
SMGC

DESIGN CHECKED  
DJW

DETAILED  
SMGC

DRAWING CHECKED  
JRW

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

**IDAHO TRANSPORTATION DEPARTMENT**

YOUR Safety → YOUR Mobility → YOUR Economic Opportunity

**J-U-B ENGINEERS, INC.**

PROJECT NO.  
**A024(342)**

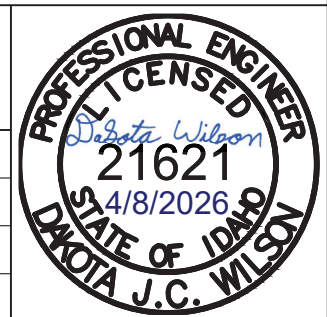
TRAFFIC CONTROL PLAN  
**OLD SPIRAL HWY GUARDRAIL, PH1  
NEZ PERCE CO**

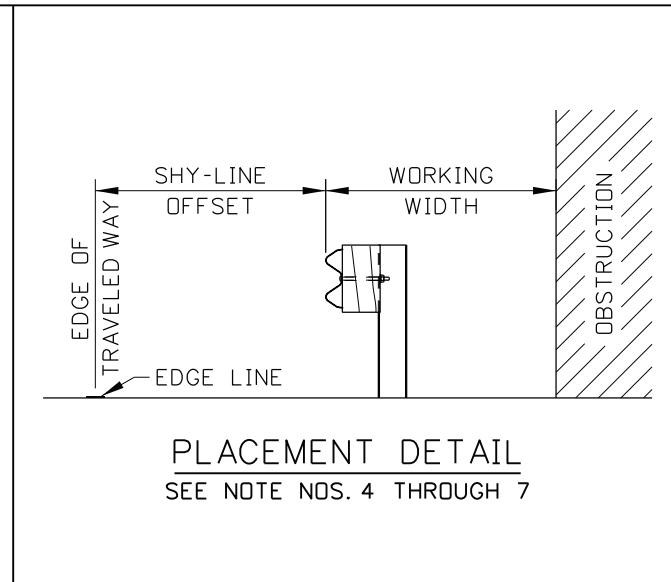
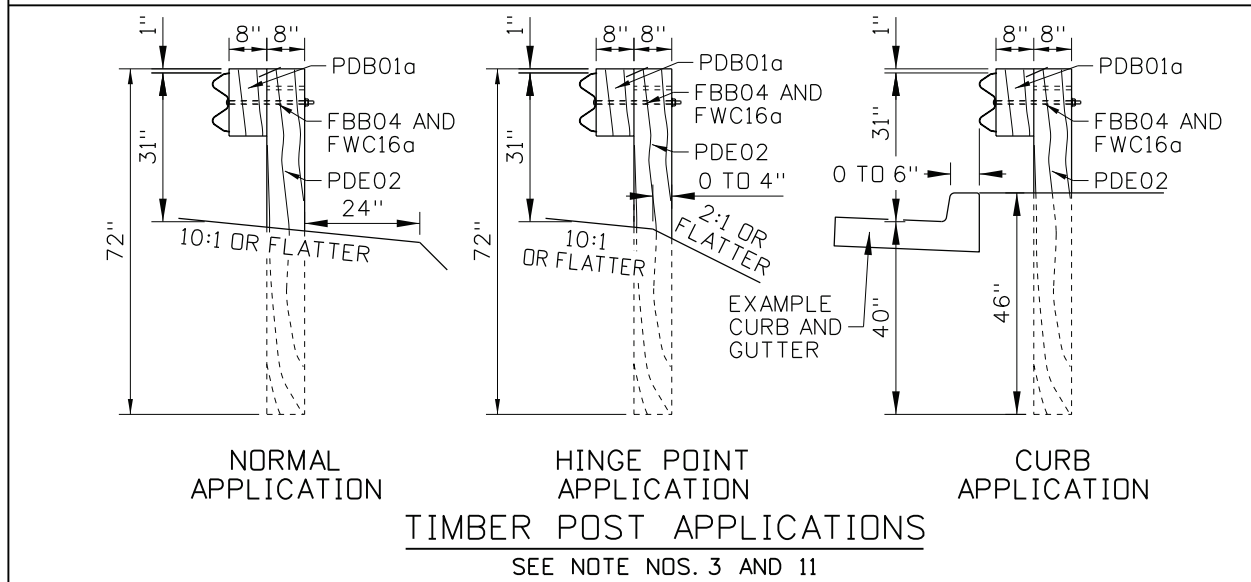
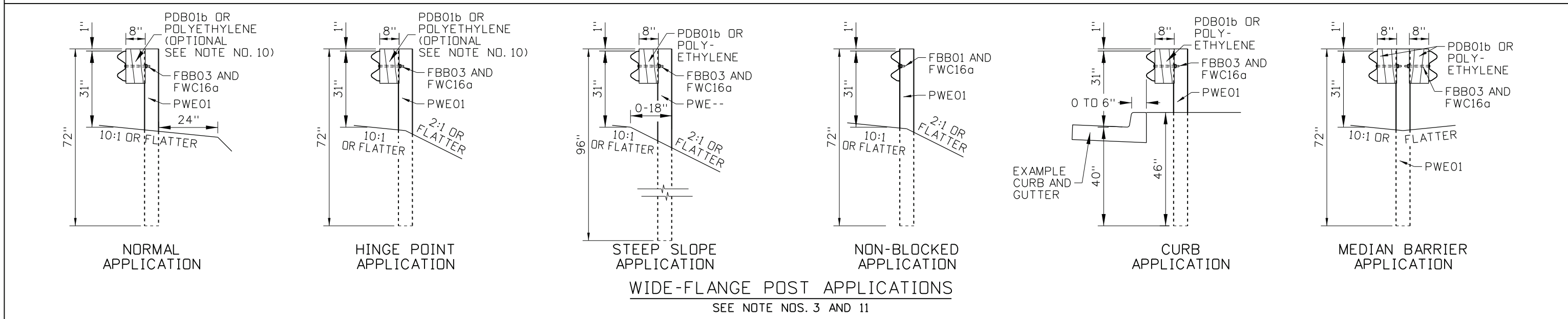
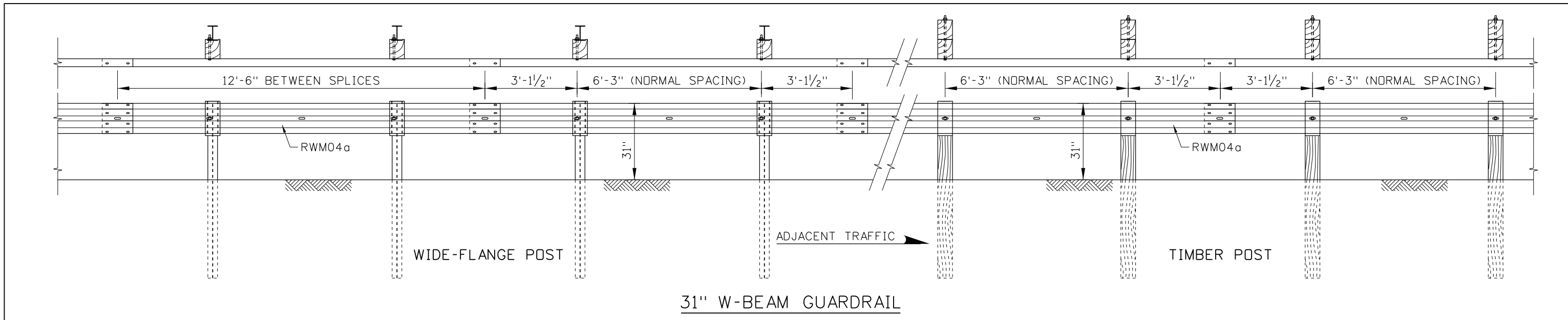
**ENGLISH**

COUNTY  
NEZ PERCE

KEY NUMBER  
24342

SHEET 101 OF 101





**SHY-LINE OFFSET AND FLARE RATE TABLE**

DESIGN SPEED (MPH)	SHY-LINE OFFSET (FT)	BARRIER FLARE RATE	
		INSIDE SHY LINE	AT OR BEYOND SHY LINE
80	12	30:1	15:1
70	9	30:1	15:1
60	8	26:1	14:1
55	7	24:1	12:1
50	6.5	21:1	11:1
45	6	18:1	10:1
40	5	16:1	8:1
30	4	13:1	7:1

**DEFLECTION TABLE**

APPLICATION	POST SPACING	WORKING WIDTH
NORMAL SPACING	6'-3"	54"
1/2 SPACING	3'-1/2"	46"
1/4 SPACING	1'-6 3/4"	38"
STEEP SLOPE	6'-3"	56"
HINGE POINT	6'-3"	78"
LONG SPAN	≤ 25'	96"

**REVISIONS**

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	03-19	RDL						
3	03-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 612-1\_0420.dgn

DRAWING DATE: JUNE, 2017

**IDAHO TRANSPORTATION DEPARTMENT**

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

**31" W-BEAM GUARDRAIL**

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

**English**

STANDARD DRAWING NO. 612-1

SHEET 1 OF 5

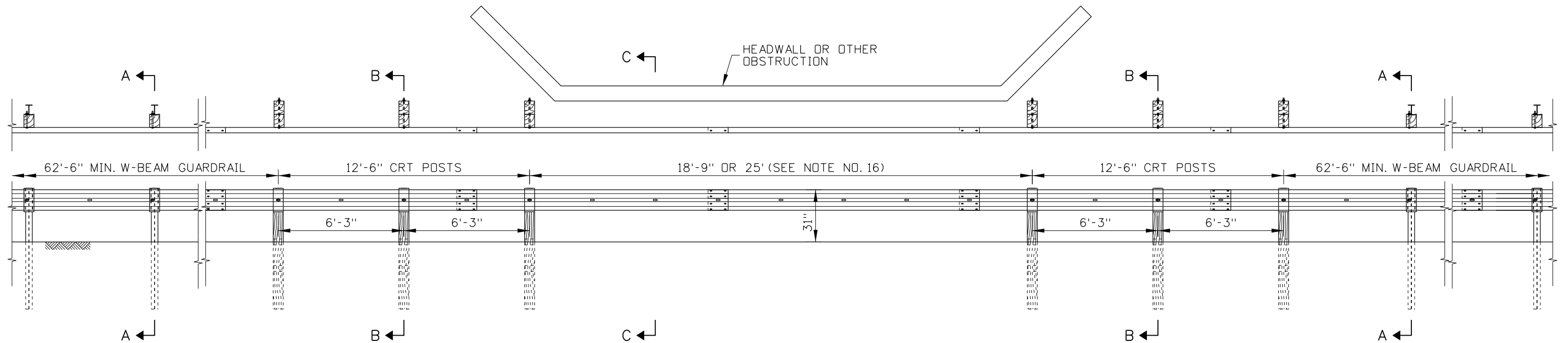
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REGISTERED

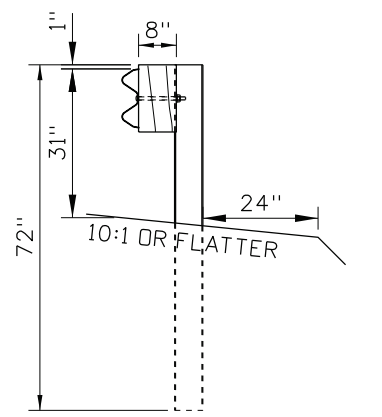
13683

RYAN D. LANCASTER

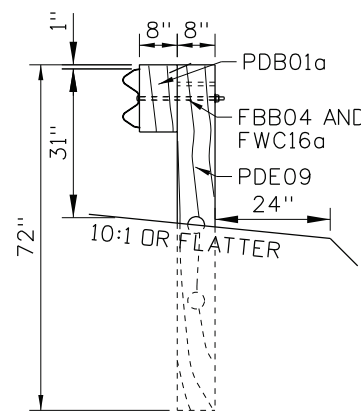
STATE OF IDAHO



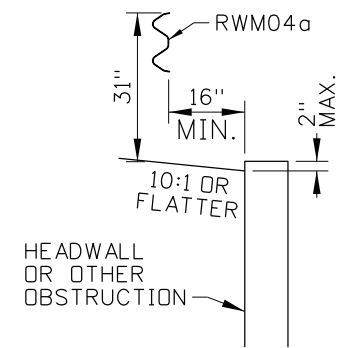
**31" LONG-SPAN APPLICATION**  
SEE NOTE NOS. 17 AND 18



SECTION A-A  
WIDE-FLANGE OR TIMBER POST



SECTION B-B



SECTION C-C

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	03-19	RDL						
3	03-20	RDL						

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**IDAHO TRANSPORTATION DEPARTMENT**



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ORIGINAL SIGNED BY: KEVIN SABLAN  
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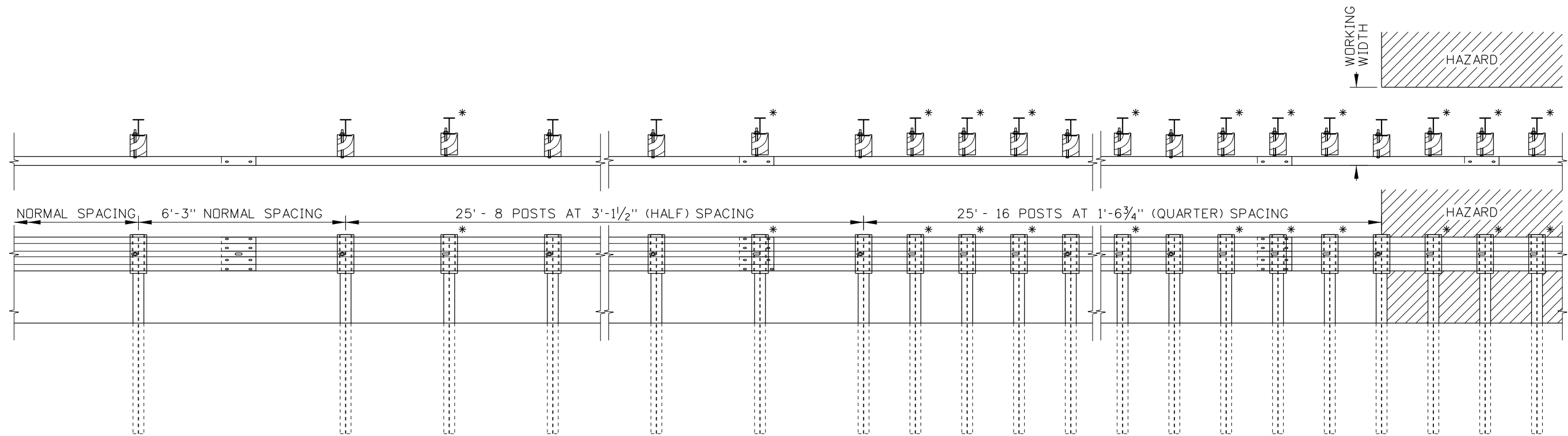
STANDARD DRAWING  
**31" W-BEAM GUARDRAIL**

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

**English**

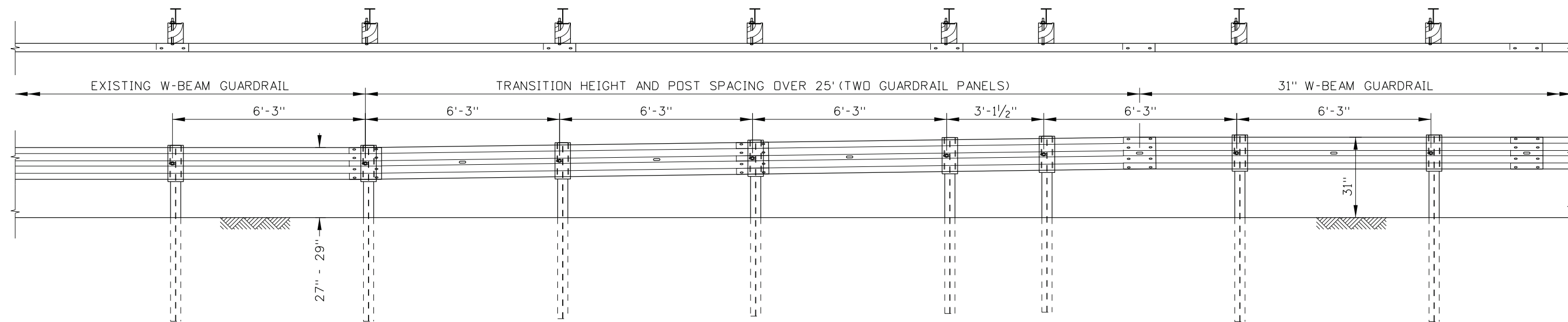
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**612-1**

SHEET 2 OF 5



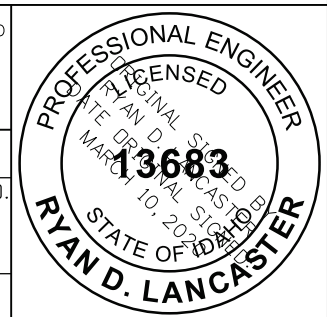
**REDUCED POST SPACING**  
SEE NOTE NO. 7

LEGEND:  
\* EXTRA POSTS.  
BOLT BLOCKOUT TO POST, BUT  
DO NOT BOLT TO GUARDRAIL



**TRANSITION TO 31" W-BEAM GUARDRAIL**  
SEE NOTE NO. 19

ORIGINAL STORED  
AT: ITD,  
Headquarters  
3311 West State  
Boise, Idaho



REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	03-19	RDL						
3	03-20	RDL						

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**IDAHO  
TRANSPORTATION  
DEPARTMENT**

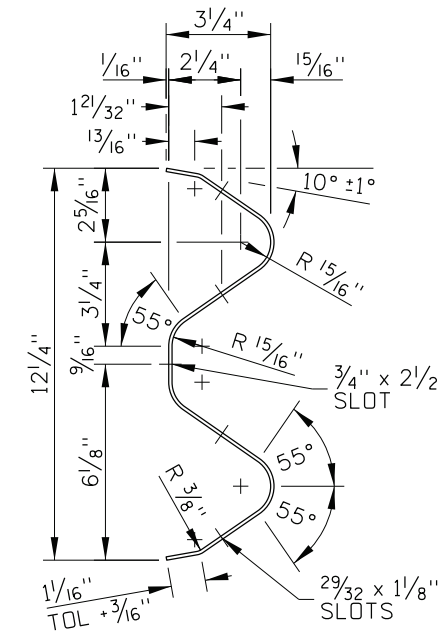
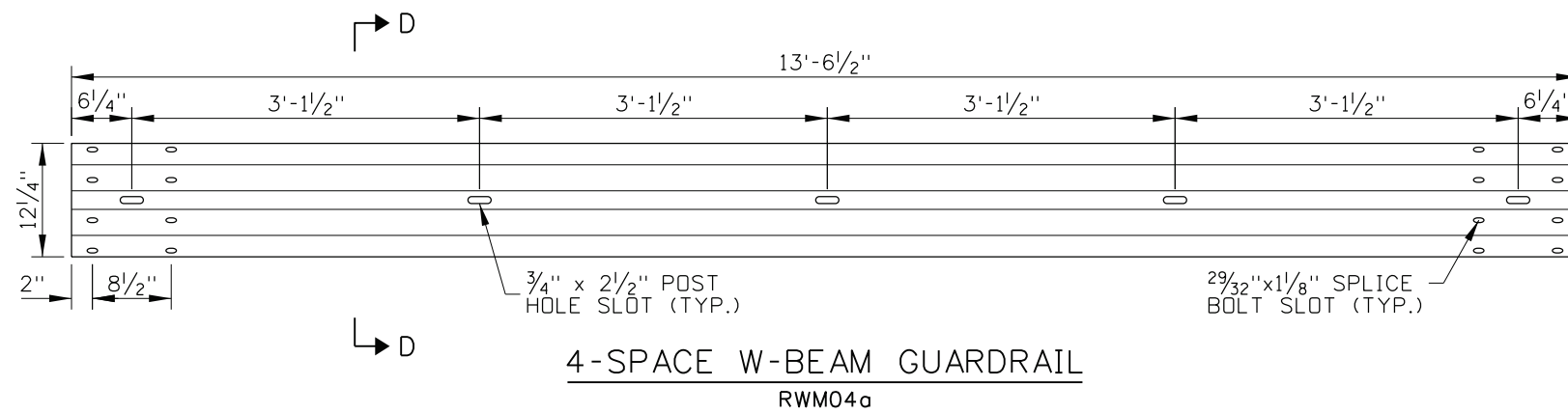


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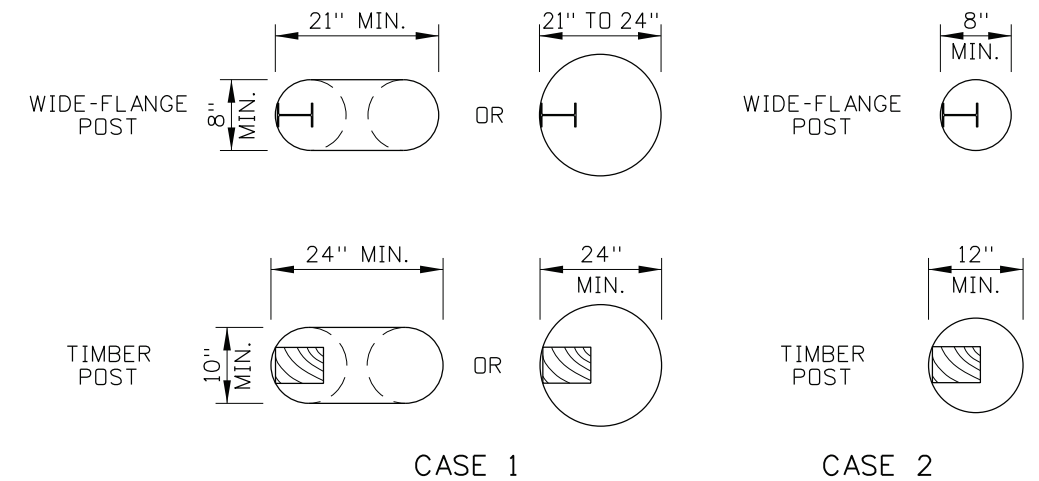
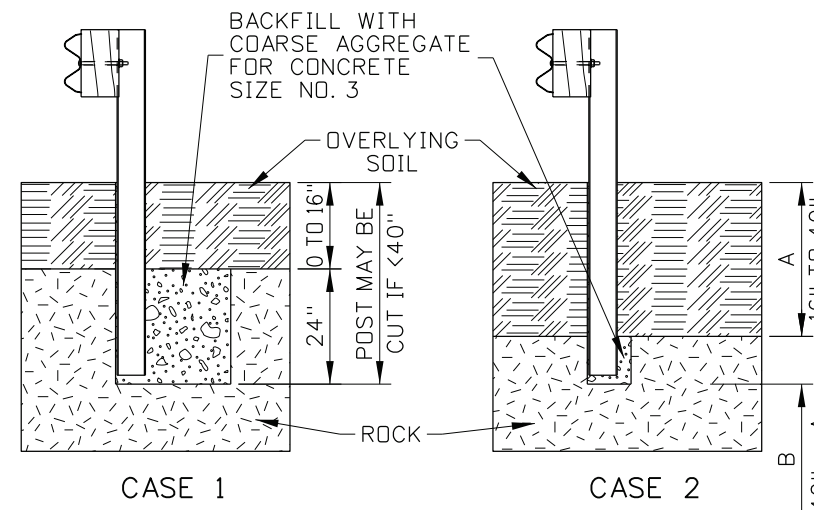
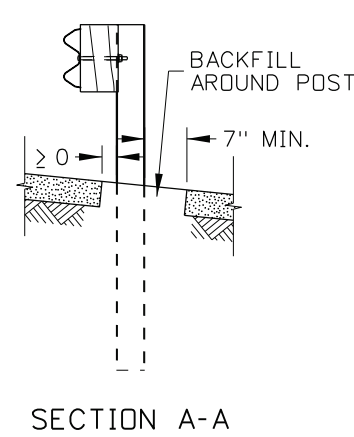
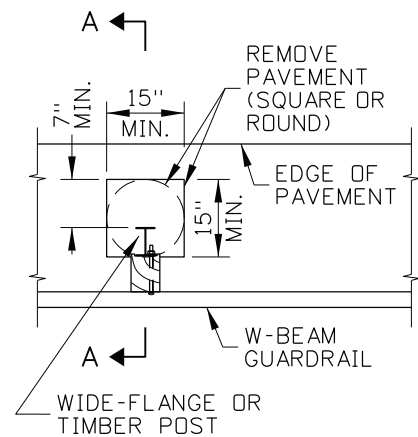
ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**31" W-BEAM GUARDRAIL**

**English**  
STANDARD DRAWING NO.  
**612-1**  
SHEET 3 OF 5



31" W-BEAM GUARDRAIL HARDWARE COMPONENTS TABLE		
COMPONENT DESCRIPTION	WIDE-FLANGE POST	TIMBER POST
4-SPACE W-BEAM GUARDRAIL	RWM04a	RWM04a
WIDE-FLANGE GUARDRAIL POSTS	PWE01, PWE--	-
TIMBER GUARDRAIL POSTS	-	PDE02
CRT TIMBER GUARDRAIL POST	-	PDE09
W-BEAM BLOCKOUT	PDB01b OR POLYETHYLENE	PDB01a
5/8" GUARDRAIL SPLICE BOLT AND RECESSED NUT	FBB01	FBB01
5/8" GUARDRAIL BOLT AND RECESSED NUT	FBB03	FBB04
5/8" PLAIN ROUND WASHER	FWC16a	FWC16a
16D GALVANIZED NAIL	-	N/A



GUARDRAIL POST IN PAVEMENT  
SEE NOTE NO. 9

GUARDRAIL POST IN ROCK FORMATION  
SEE NOTE NO. 9

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	03-19	RDL						
3	03-20	RDL						

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**IDAHO TRANSPORTATION DEPARTMENT**



BOISE IDAHO

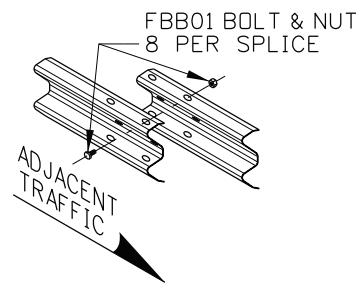
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DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**31" W-BEAM GUARDRAIL**

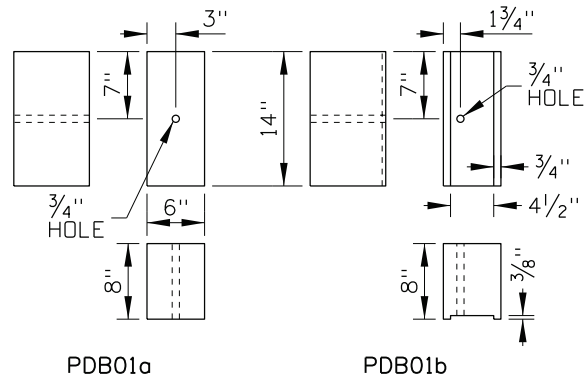
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STANDARD DRAWING NO.  
**612-1**  
SHEET 4 OF 5

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

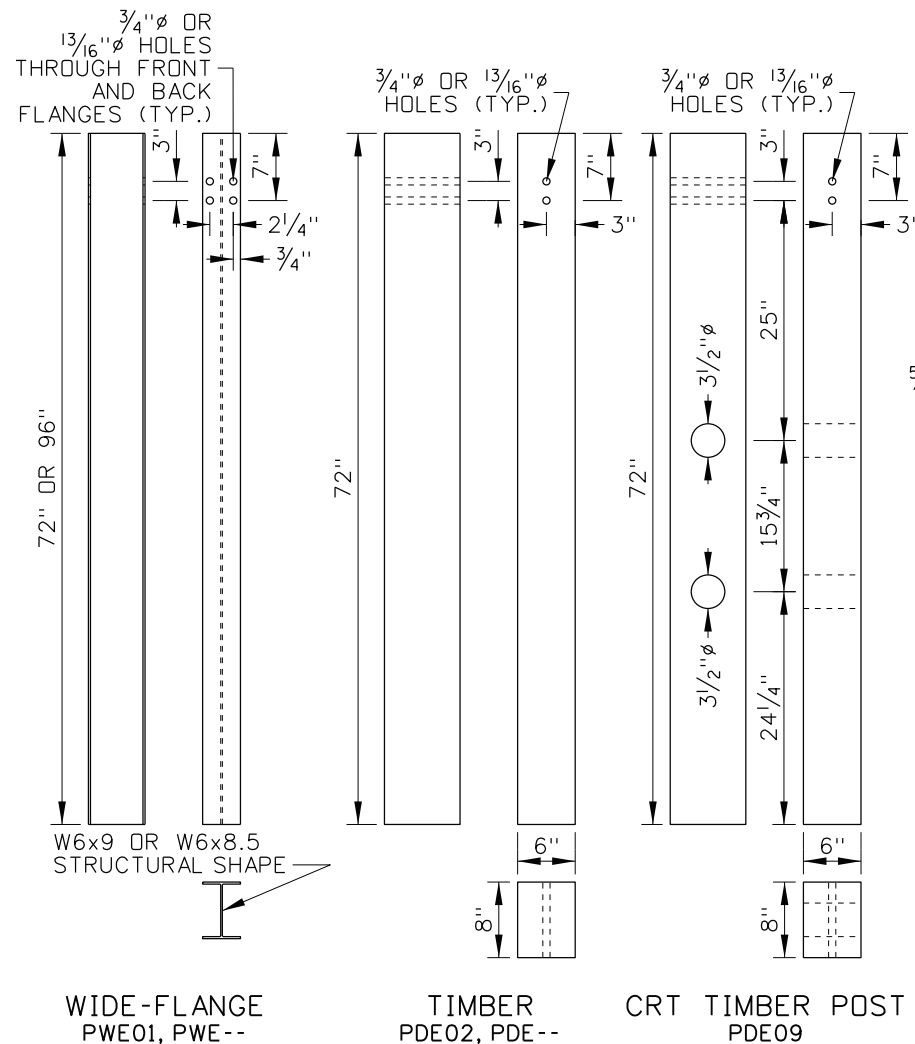
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LICENSED  
13683  
RYAN D. LANCASTER  
STATE OF IDAHO



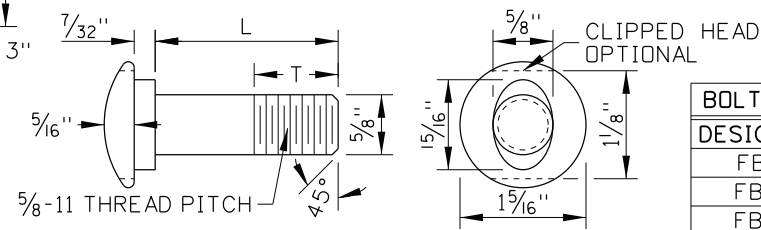
**W-BEAM SPLICE DETAIL**  
SEE NOTE NO. 14



**W-BEAM TIMBER BLOCKOUTS**

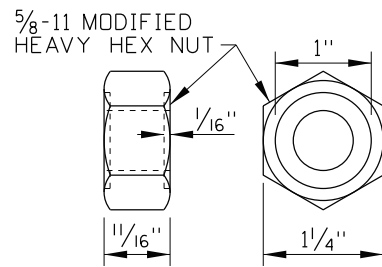


**GUARDRAIL POSTS**

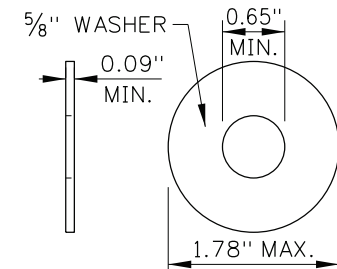


**GUARDRAIL BOLT (BUTTON-HEADED)**  
FBB01, FBB03, FBB04

BOLT DIMENSION TABLE		
DESIGNATOR	L	T
FBB01	1 1/4"	1 1/8"
FBB03	10"	1 3/4"
FBB04	18"	4"



**RECESSED NUT**



**PLAIN ROUND WASHER**  
FWC16a

**NOTES**

1. THE 31" W-BEAM GUARDRAIL SYSTEM SHOWN IS A MASH TEST LEVEL 3 BARRIER SYSTEM.
2. PROVIDE BARRIER HARDWARE AS SHOWN AND AS SPECIFIED IN THE PUBLICATION "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE." WHERE THE GUIDE AND PLANS CONFLICT, PROVIDE HARDWARE COMPONENTS AS SHOWN ON THE PLANS.
3. INSTALL GUARDRAIL AS SHOWN IN THE NORMAL APPLICATION UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS. THE CURB APPLICATIONS CAN BE USED WITH ANY OF THE CURB AND GUTTER OR CURB TYPES SHOWN ON THE CURB AND GUTTER STANDARD DRAWING.
4. PLACE 31" W-BEAM GUARDRAIL AS FAR FROM THE TRAVELED WAY AS PRACTICAL. WHERE PRACTICAL PROVIDE THE SHY-LINE OFFSET DISTANCE SHOWN IN THE SHY-LINE OFFSET TABLE.
5. WHERE PRACTICAL, FLARE THE 31" W-BEAM GUARDRAIL AWAY FROM THE TRAVELED WAY. SEE THE SHY-LINE OFFSET AND FLARE RATE TABLE.
6. PROVIDE ADEQUATE DEFLECTION DISTANCE TO OBSTRUCTIONS BEHIND THE GUARDRAIL BY PROVIDING THE WORKING WIDTH SHOWN ON THE PLACEMENT DETAIL AND IN THE DEFLECTION TABLE.
7. DECREASE DEFLECTION BY REDUCING POST SPACING. INTRODUCE EACH REDUCTION IN POST SPACING OVER 25' OR MORE. DO NOT BOLT THE GUARDRAIL TO THE EXTRA POSTS.
8. WIDE-FLANGE OR TIMBER POSTS MAY BE USED UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS. USE THE SAME POST MATERIAL FOR THE PROJECT LENGTH (EXCEPT IN THE 31" LONG-SPAN APPLICATION).
9. REMOVE PAVEMENT AND ROCK AROUND GUARDRAIL POSTS.
10. USE TIMBER OR POLYETHYLENE BLOCKOUTS WITH WIDE-FLANGE POSTS. USE TIMBER BLOCKOUTS WITH TIMBER POSTS. USE THE SAME BLOCKOUT MATERIAL FOR THE PROJECT LENGTH (EXCEPT IN THE 31" LONG-SPAN APPLICATION). THE WIDE-FLANGE POST NORMAL APPLICATION CAN BE CONSTRUCTED WITHOUT BLOCKOUTS IF INDICATED ON THE PROJECT PLANS OR IF APPROVED BY THE ENGINEER.
11. INSTALL THE BLOCKOUT AND W-BEAM GUARDRAIL USING THE HOLE 7" FROM THE TOP OF THE POST. THE HIGHER HOLE IS RESERVED FOR FUTURE GUARDRAIL HEIGHT ADJUSTMENT.
12. NAIL TIMBER BLOCKOUTS TO TIMBER POSTS TO RESTRICT BLOCK ROTATION. NAIL THROUGH THE SIDES OF THE BLOCKOUT AND POST.
13. WHEN WIDE-FLANGE POSTS ARE USED AND WHEN PRACTICAL, INSTALL THE BOLT (FBB03) ON THE UPSTREAM SIDE OF THE POST IN RELATION TO THE ADJACENT TRAFFIC.
14. SPLICE 31" W-BEAM GUARDRAIL BETWEEN POSTS. OVERLAP SPLICES SO THAT THE EXPOSED W-BEAM EDGE IS DOWNSTREAM OF THE ADJACENT TRAFFIC.
15. BEGIN AND END 31" W-BEAM GUARDRAIL WITH A TERMINAL, ANCHOR, OR TRANSITION. CONSTRUCT TERMINALS OR TRANSITIONS USING THE SAME POST MATERIAL AS THE GUARDRAIL WHEN PRACTICAL. SOME ANCHORS AND TERMINALS ARE ONLY AVAILABLE WITH TIMBER OR WIDE-FLANGE POSTS.
16. DELINEATE GUARDRAILS WITH TYPE 9 DELINEATORS. SEE THE DELINEATOR STANDARD DRAWING FOR DELINEATOR SPACING.
17. ONE POST CAN BE OMITTED WITHOUT OTHER MODIFICATION IF APPROVED BY THE ENGINEER. THE LONG-SPAN APPLICATION CAN BE USED WHERE TWO POSTS (18'-9" SPAN) OR THREE POSTS (25' SPAN) ARE OMITTED.
18. WHEN THE LONG-SPAN APPLICATION (18'-9", OR 25') IS USED, INSTALL THREE CRT TIMBER POSTS (PDE09) WITH TIMBER BLOCKOUTS ADJACENT TO THE UPSTREAM AND DOWNSTREAM ENDS OF THE UNSUPPORTED SECTION. DO NOT NEST THE 4-SPACE W-BEAM GUARDRAIL IN THE UNSUPPORTED SECTION. INSTALL AT LEAST 62'-6" OF 31" W-BEAM GUARDRAIL UPSTREAM AND DOWNSTREAM OF THE CRT POSTS.
19. WHEN CONNECTING TO EXISTING GUARDRAIL, TRANSITION THE GUARDRAIL HEIGHT TO 31". REPLACE THE EXISTING W-BEAM GUARDRAIL IF THE TOP OF GUARDRAIL HEIGHT IS LESS THAN 27".
20. DRAWING NOT TO SCALE.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	08-18	RDL					
2	03-19	RDL					
3	03-20	RDL					

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DRAWING DATE: JUNE, 2017

**IDAHO TRANSPORTATION DEPARTMENT**

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

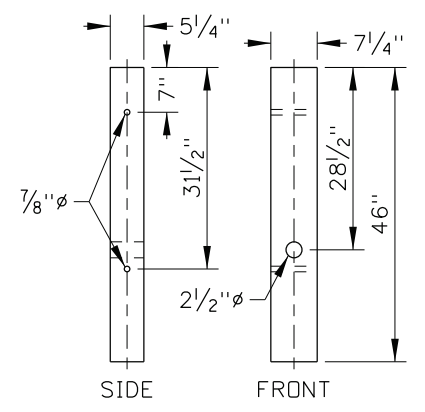
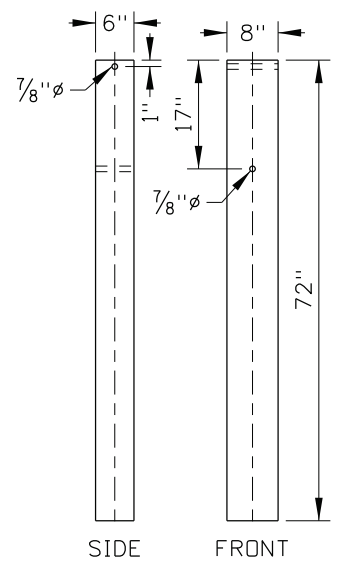
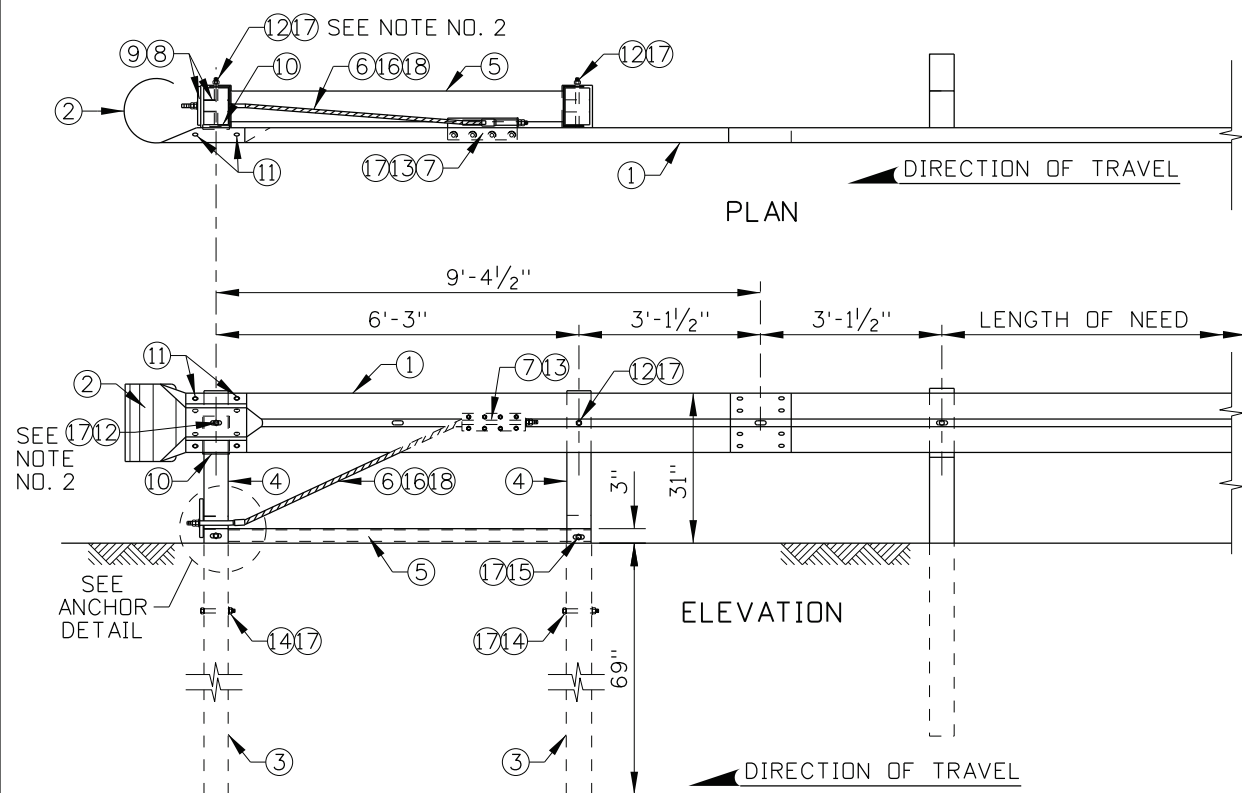
STANDARD DRAWING  
**31" W-BEAM GUARDRAIL**

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

**English**

STANDARD DRAWING NO. 612-1

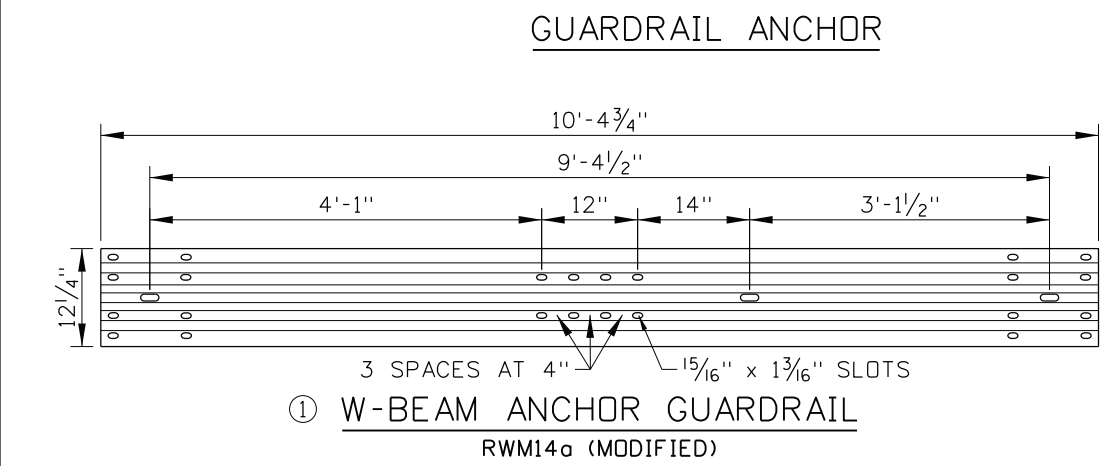
SHEET 5 OF 5



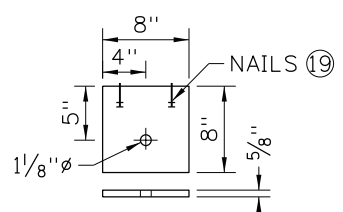
③ FOUNDATION TUBE DETAIL  
PTE06

④ BCT TIMBER POST DETAIL  
PDF--

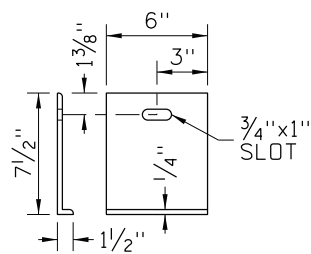
ANCHOR HARDWARE COMPONENTS TABLE			
ITEM NO.	COMPONENT DESCRIPTION	QTY.	TF-13 NAME
①	W-BEAM ANCHOR GUARDRAIL	1	RWM14a (MOD)
②	W-BEAM END SECTION (ROUNDED)	1	RWE03a
③	FOUNDATION TUBE	2	PTE06
④	BCT TIMBER POST	2	PDF--
⑤	STRUT AND YOKE ASSEMBLY	1	PFPO2
⑥	BCT CABLE ANCHOR ASSEMBLY	1	FCA01
⑦	GUARDRAIL ANCHOR BRACKET	1	FPA01
⑧	BCT POST SLEEVE	1	FMM02
⑨	BCT BEARING PLATE	1	FPB01
⑩	SHELF ANGLE BRACKET	1	FPP02
⑪	5/8" GUARDRAIL SPLICE BOLT AND RECESSED NUT	4	FBB01
⑫	10" GUARDRAIL BOLT & RECESSED NUT	2	FBB03
⑬	5/8" X 2" HEX HEAD BOLT & NUT	8	FBX16a
⑭	5/8" X 8" HEX HEAD BOLT & NUT	2	FBX16a
⑮	5/8" X 10" HEX HEAD BOLT & NUT	2	FBX16a
⑯	1" HEX NUTS	4	FNX24a
⑰	5/8" FLAT WASHER	22	FWC16a
⑱	1" FLAT WASHER	2	FWC24a
⑲	16D GALVANIZED NAIL	2	N/A



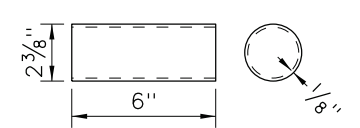
① W-BEAM ANCHOR GUARDRAIL  
RWM14a (MODIFIED)



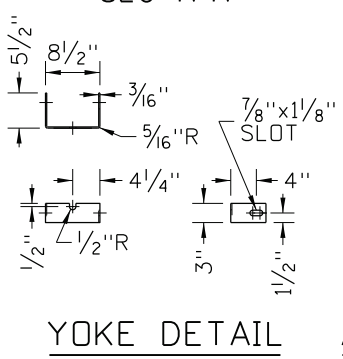
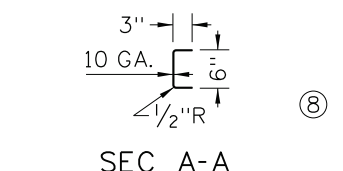
⑨ BCT BEARING PLATE DETAIL  
FPB01



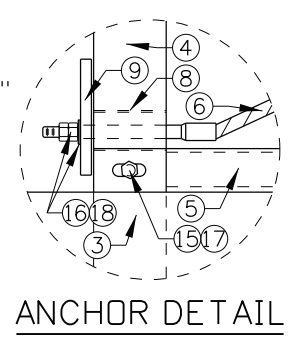
⑩ SHELF ANGLE BRACKET DETAIL  
FPP02



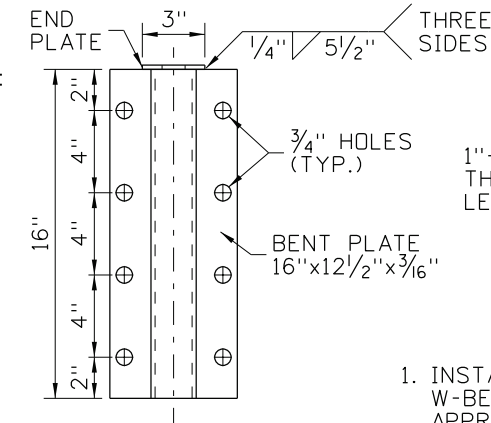
⑧ BCT POST SLEEVE DETAIL  
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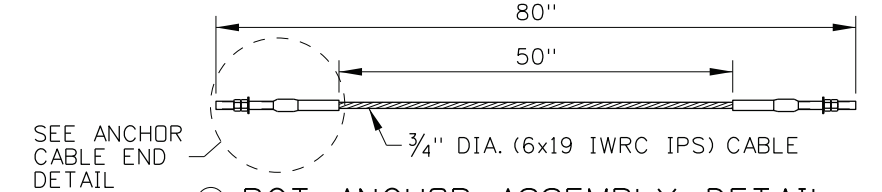
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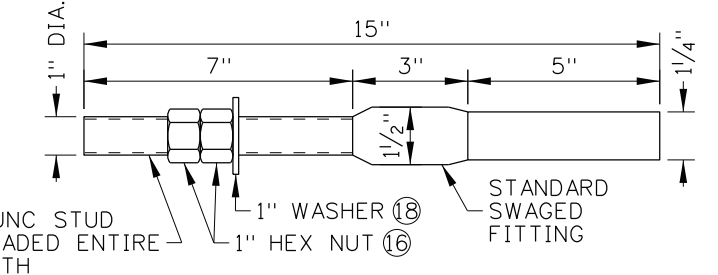
Anchor Detail



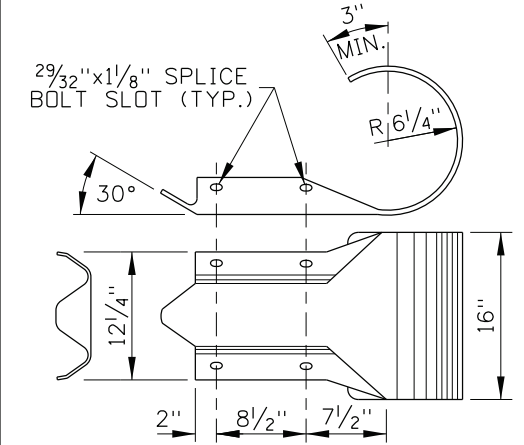
⑦ GUARDRAIL ANCHOR BRACKET DETAIL  
FPA01



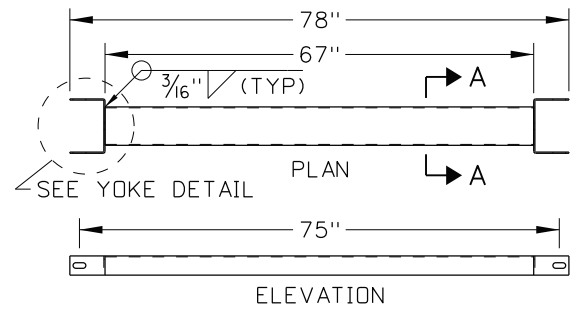
⑥ BCT ANCHOR ASSEMBLY DETAIL  
FCA01



Anchor Cable End Detail



② W-BEAM END SECTION DETAIL  
RWE03a



⑤ STRUT AND YOKE ASSEMBLY DETAIL  
PFPO2

NOTES

1. INSTALL THE ANCHOR SYSTEM ON THE TRAILING END OF 31" W-BEAM GUARDRAIL, OUTSIDE OF THE CLEAR ZONE FOR APPROACHING TRAFFIC, OR BOTH.
2. SUPPORT THE W-BEAM ANCHOR GUARDRAIL AT THE END POST WITH THE SHELF ANGLE BRACKET. DO NOT BOLT THE W-BEAM GUARDRAIL TO THE POST.
3. ENSURE THAT THE FOUNDATION TUBES DO NOT EXTEND MORE THAN 3 3/4" ABOVE THE FINISHED GRADE.
4. INSTALL AN EXTRA HEX NUT ON EACH END OF THE BCT CABLE ANCHOR ASSEMBLY.
5. AFFIX A TYPE 3 OBJECT MARKER TO THE W-BEAM END SECTION WHEN THE ANCHOR IS USED ON AN UNDIVIDED HIGHWAY.
6. DRAWING NOT TO SCALE.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
CADD FILE NAME: 612-5\_0617.dgn  
DRAWING DATE: JUNE, 2017

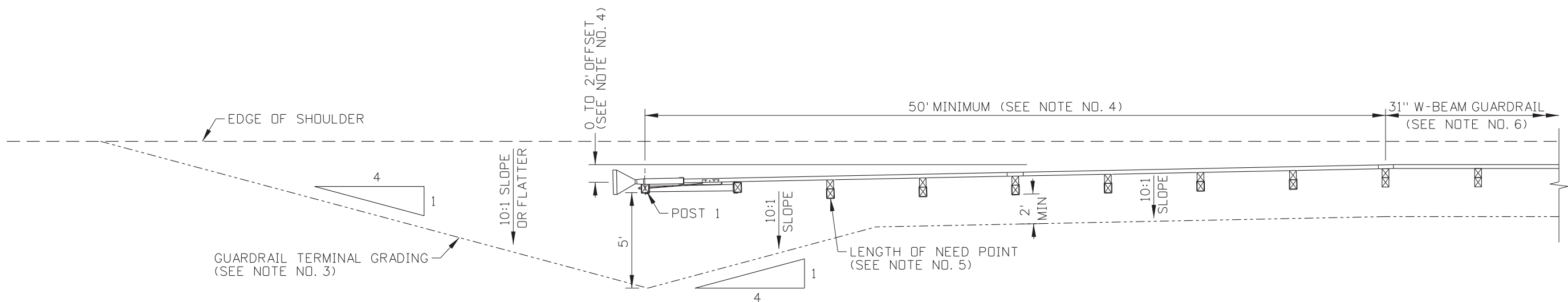
IDAHO TRANSPORTATION DEPARTMENT  
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

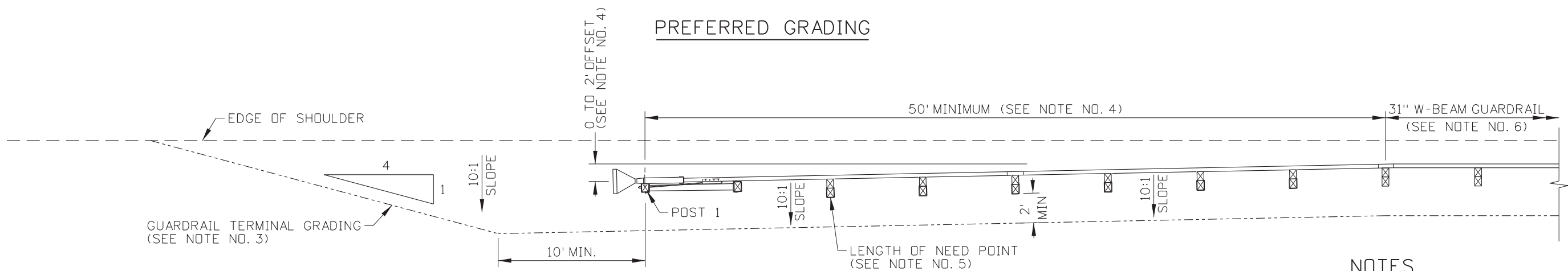
STANDARD DRAWING  
GUARDRAIL ANCHOR

English  
STANDARD DRAWING NO. 612-5  
SHEET 1 OF 1

PROFESSIONAL ENGINEER  
RYAN D. LANCASTER  
13683  
STATE OF IDAHO



PREFERRED GRADING



ALTERNATIVE GRADING

NOTES

1. THE TANGENT TERMINAL SHOWN IS AN EXAMPLE ONLY. TANGENT TERMINAL DESIGNS VARY BY PRODUCT AND MANUFACTURER.
2. USE THE PREFERRED GRADING LAYOUT WHEN PRACTICAL. THE ALTERNATIVE GRADING LAYOUT MAY BE USED WHEN UPGRADING AN EXISTING TERMINAL WITH SITE LIMITATIONS. DISTANCES SHOWN FROM THE TERMINAL POSTS TO THE GRADING EXTENTS ARE MEASURED FROM THE BACK OF THE POST.
3. PROVIDE A 4:1 OR FLATTER SLOPE OUTSIDE OF THE GUARDRAIL TERMINAL GRADING EXTENTS WHERE PRACTICAL.
4. INSTALL THE TERMINAL IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. REFER TO THE INSTRUCTIONS FOR SYSTEM LENGTH, OFFSET, NUMBER OF POSTS, POST SPACING, AND WHEN A TANGENT TERMINAL IS TO BE INSTALLED ON A HORIZONTAL CURVE.
5. VERIFY THE LENGTH OF NEED POINT WITH MANUFACTURER INSTRUCTIONS FOR A SPECIFIC PRODUCT. ELEMENTS OF THE GUARDRAIL TERMINAL DOWNSTREAM OF THE LENGTH OF NEED POINT CAN BE INCLUDED AS PART OF THE LENGTH OF NEED.
6. PROVIDE A MINIMUM OF 12'-6" OF 31" W-BEAM GUARDRAIL BETWEEN THE GUARDRAIL TERMINAL AND A GUARDRAIL TRANSITION.
7. IF THE TANGENT TERMINAL DESIGN USES AN ANCHOR CABLE, INSTALL AN EXTRA HEX NUT ON EACH END OF THE CABLE.
8. AFFIX A TYPE 3 OBJECT MARKER TO THE TERMINAL END SECTION.
9. DRAWING NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	03-21	PBH						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 612-8\_0421.dgn

DRAWING DATE: JUNE, 2017

**IDAHO TRANSPORTATION DEPARTMENT**



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

**GUARDRAIL TERMINAL TANGENT**

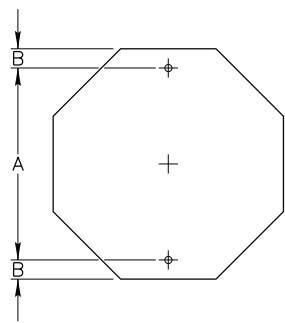
**English**

STANDARD DRAWING NO.

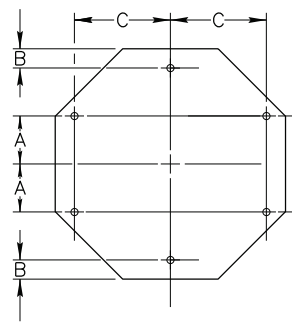
**612-8**

SHEET 1 OF 1

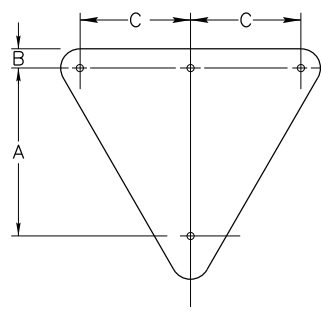
ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho



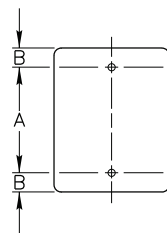
SIGN SIZE	A	B
30"X30"	24"	3"



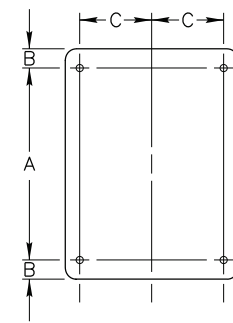
SIGN SIZE	A	B	C
36"X36"	8"	3"	12"
48"X48"	10"	—	20"



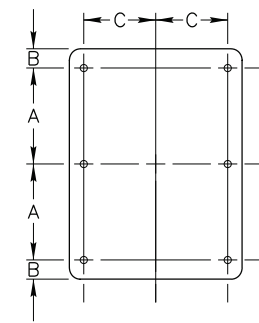
SIGN SIZE	A	B	C
30"X30"	18"	3"	—
36"X36"	23"	3"	—
48"X48"	25"	3"	17"
60"X60"	35"	4"	23"



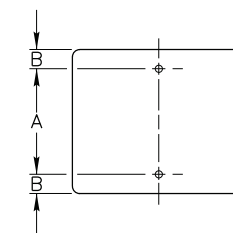
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6"X18"	15"	1 1/2"
9"X12"	9"	1 1/2"
12"X18"	15"	1 1/2"
12"X30"	24"	3"
12"X36"	32"	2"
18"X24"	18"	3"
24"X30"	24"	3"
24"X36"	30"	3"
30"X36"	30"	3"



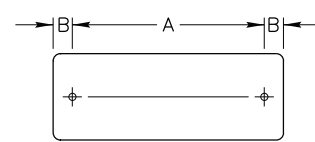
SIGN SIZE	A	B	C
36"X36"	30"	3"	15"
36"X48"	42"	3"	15"
48"X30"	24"	3"	15"
48"X36"	30"	3"	15"
60"X36"	30"	3"	21"



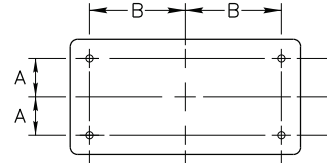
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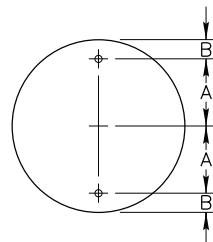
SIGN SIZE	A	B
12"X6"	3"	1 1/2"
18"X9"	6"	1 1/2"
18"X12"	9"	1 1/2"
18"X18"	15"	1 1/2"
21"X15"	12"	1 1/2"
24"X6"	3"	1 1/2"
24"X10"	7"	1 1/2"
24"X12"	9"	1 1/2"
24"X18"	15"	1 1/2"
24"X24"	18"	3"
30"X18"	12"	3"
30"X24"	18"	3"
30"X30"	24"	3"
36"X24"	18"	3"
36"X30"	24"	3"
42"X24"	18"	3"
42"X30"	24"	3"
42"X36"	30"	3"



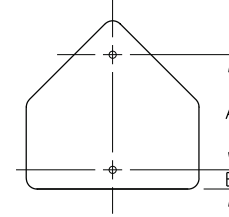
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36"X12"	30"	3"
36"X18"	24"	6"
48"X12"	42"	3"
48"X18"	42"	3"
54"X18"	48"	3"



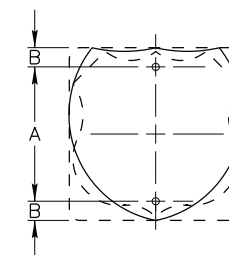
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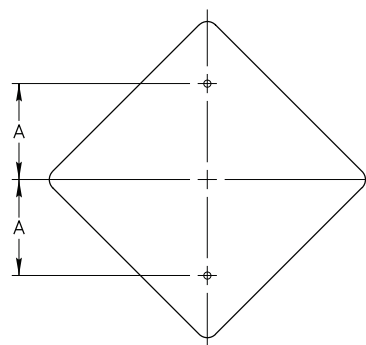
SIGN SIZE	A	B
36"	15"	3"
48"	21"	3"



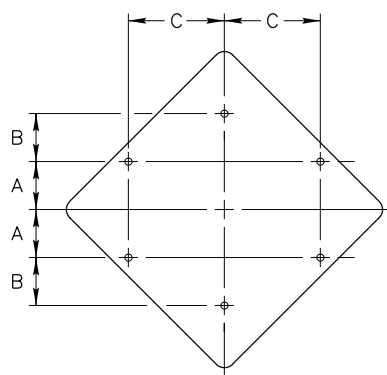
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36"X36"	24"	3"



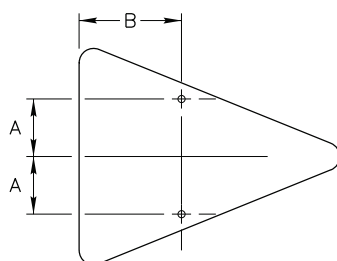
SIGN SIZE	A	B
24"X24"	18"	3"
30"X24"	18"	3"



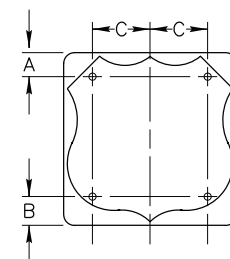
SIGN SIZE	A
18"X18"	10"
24"X24"	12"
30"X30"	15"



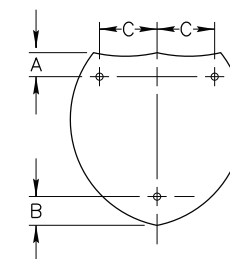
SIGN SIZE	A	B	C
36"X36"	8"	10"	12"
48"X48"	10"	—	20"



SIGN SIZE	A	B
36"X48"	9"	16"



SIGN SIZE	A	B	C
36"X36"	5"	6"	12"



SIGN SIZE	A	B	C
36"X36"	5"	6"	12"
45"X36"	5"	6"	16"

NOTES:

- ALL MOUNTING HOLES SHALL BE 3/8" DIAMETER.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-01	NQB						
2	06-07	HEB						
3	07-14	HEB						
4	05-17	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME: 616-1\_0517.dgn  
 DRAWING DATE: DECEMBER, 1994

**IDAHO TRANSPORTATION DEPARTMENT**



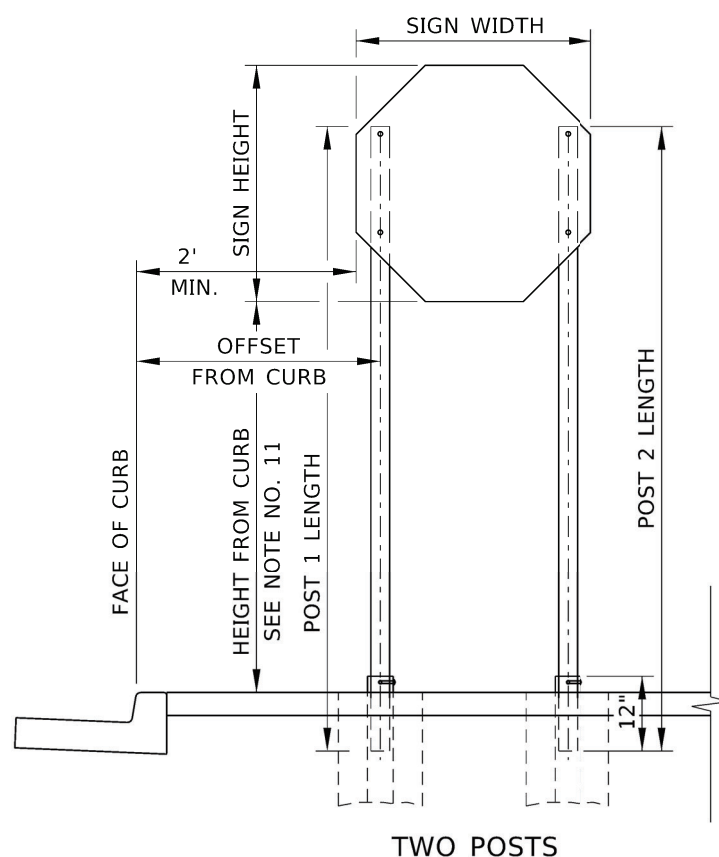
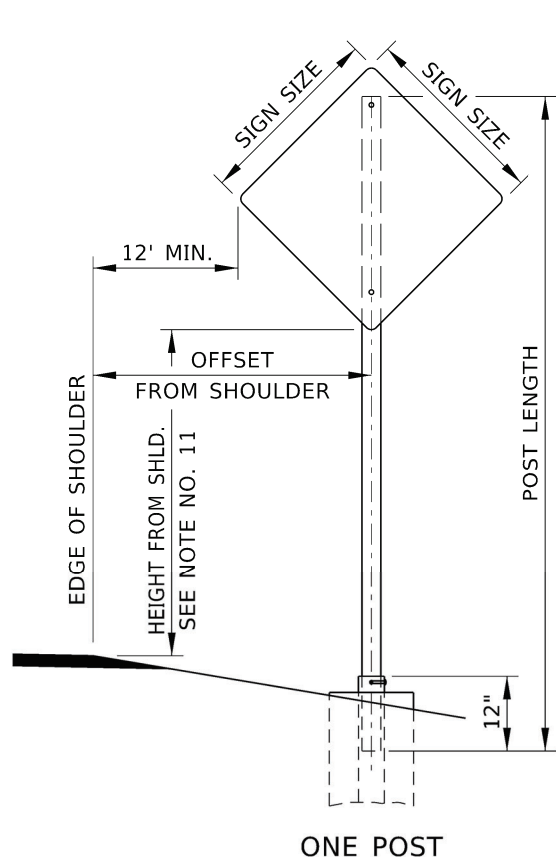
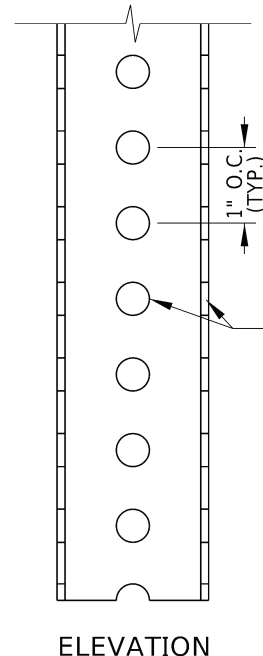
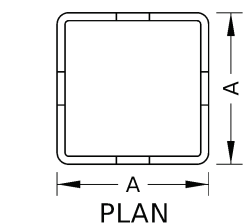
BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
 DESIGN/TRAFFIC SERVICES ENGINEER

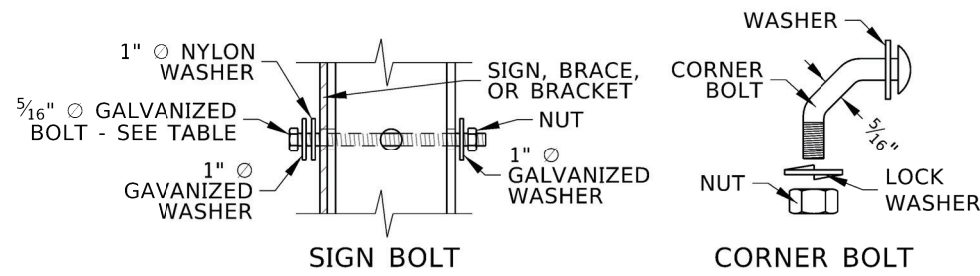
STANDARD DRAWING  
**PUNCHING SCHEDULE FOR TYPE "B" OR TYPE "E" SIGNS**

**English**  
 STANDARD DRAWING NO. **616-1**  
 SHEET 1 OF 1

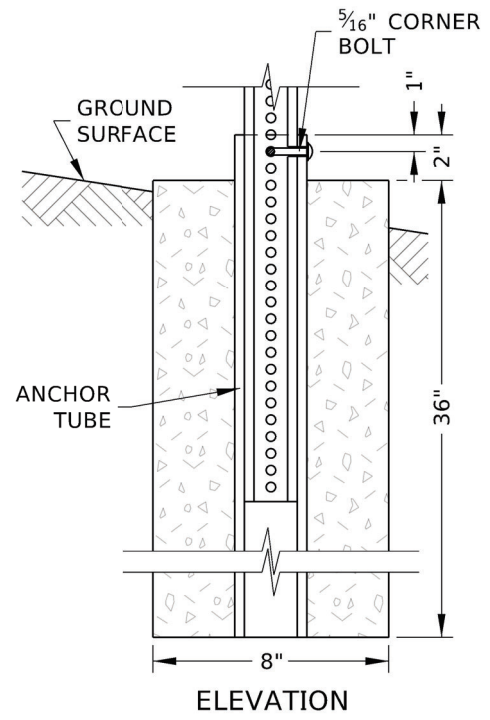
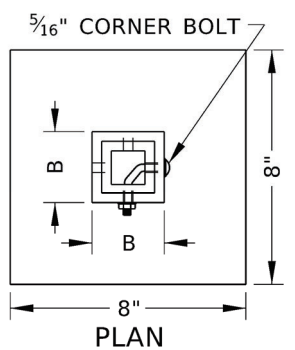
PROFESSIONAL ENGINEER  
 LICENSED  
 RYAN D. LANCASTER  
 STATE OF IDAHO  
 13683



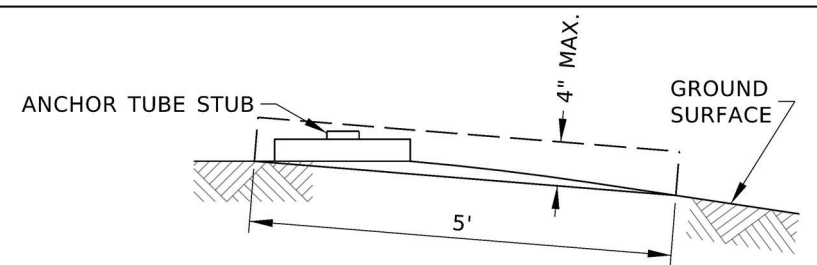
**SIGN ASSEMBLY MEASUREMENTS**



**FASTENER DETAILS**  
SEE NOTE NO. 10



**FOUNDATION**  
SEE NOTE NOS. 12 & 13



**FOUNDATION AND STUB HEIGHT DETAIL**  
SEE NOTE NO. 15

**NOTES**

- USE TYPE E - PERFORATED STEEL TUBE POSTS - WITH TYPE B - SHEET ALUMINUM AND TYPE E - HDO PLYWOOD SIGNS.
- SEE THE TRAFFIC MANUAL TO CALCULATE SIGN LOAD PER POST.
- SEE PROJECT SIGN SUMMARY FOR SIGN ASSEMBLY DIMENSIONS.
- USE ONE OR MORE TYPE E - PERFORATED STEEL TUBE POST. DO NOT MIX E-1 AND E-2 POSTS ON THE SAME SIGN ASSEMBLY.
- POST 1 IS CLOSEST TO THE HIGHWAY, WHETHER INSTALLED ON THE RIGHT OR LEFT SIDE.
- A BREAKAWAY DEVICE MUST BE INSTALLED IF THREE POSTS ARE USED. REFER TO THE ITD QUALIFIED PRODUCTS LIST FOR BREAKAWAY DEVICES.
- TYPE E - PERFORATED STEEL TUBE POSTS - DO NOT NEED TO BE SHIELDED BY GUARDRAIL OR BARRIER. WHEN PERFORATED STEEL POSTS ARE INSTALLED BEHIND GUARDRAIL OR BARRIER, ENSURE THE POSTS ARE OUTSIDE OF THE GUARDRAIL OR BARRIER WORKING WIDTH.
- SIGNS CAN BE MOUNTED BACK-TO-BACK IF THE SHAPE OF STOP, YIELD, OR WARNING SIGNS ARE NOT SHIELDED.
- SIGNS ARE INSTALLED WITH OR WITHOUT BRACES DEPENDENT ON SIGN SIZE AND APPLICATION.
- TYPE B - SHEET ALUMINUM - OR TYPE E - HDO PLYWOOD - SIGNS CAN BE AFFIXED TO THE POST OR THROUGH BRACES OR BRACKETS.
- INSTALL SIGNS AT THE FOLLOWING HEIGHTS:
  - IF INSTALLED IN A RURAL AREA, 5 FEET ABOVE THE PAVEMENT ELEVATION OR 4 FEET IF A SUPPLEMENTARY PLAQUE IS INSTALLED BELOW THE SIGN.
  - IF INSTALLED IN THE VICINITY OF A CURB OR IN A BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA WHERE PARKING OR PEDESTRIAN MOVEMENTS ARE LIKELY, 7 FEET ABOVE THE PAVEMENT ELEVATION OR 6 FEET IF A SUPPLEMENTARY PLAQUE IS INSTALLED BELOW THE SIGN. IF INSTALLED LOWER THAN 7 FEET, ENSURE SIGNS DO NOT PROJECT MORE THAN 4 INCHES INTO THE PEDESTRIAN FACILITY.
- PRECAST FOUNDATION OR CAST FOUNDATION IN PLACE. ENSURE THE BOTTOM OF THE FOUNDATION IS KEPT OPEN TO DRAIN. IF THE ANCHOR TUBE IS PERFORATED, ENSURE THE INSIDE OF THE ANCHOR REMAINS OPEN.
- IF SOLID BEDROCK IS ENCOUNTERED WITHIN THE FOUNDATION DEPTH, DRILL A 4.5 INCH VERTICAL HOLE AND SOCKET THE ANCHOR TUBE. FILL DRILLED HOLES WITH GROUT, TYPE B, CLASS 1. ENSURE THE INSIDE OF THE ANCHOR TUBE REMAINS OPEN. WHEN INSTALLED IN BEDROCK, ENSURE THE E-1 POST IS EMBEDDED 18 INCHES DEEP AND THE E-2 POST IS EMBEDDED 24 INCHES.
- WHEN THE SIGN IS INSTALLED ON A BACKSLOPE, ENSURE THE SIGN POST IS AT LEAST 5' HIGHER THAN THE GROUND SURFACE.
- ENSURE NO PART OF THE FOUNDATION OR SIGN POST STUB PROJECTS MORE THAN 4 IN. ABOVE ANY 5 FT. CHORD ALIGNED PERPENDICULARLY TO THE EDGE OF THE HIGHWAY BETWEEN A POINT ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE OF THE SUPPORT.
- DRAWING NOT TO SCALE.

SIGN POST AND FOUNDATION TABLE										
POST TYPE	TYPE E PERFORATED STEEL TUBE POST		POST WEIGHT (LB/FT)	MAXIMUM SIGN LOAD (SFxFT)	FOUNDATION		ANCHOR TUBE		POST WEIGHT (LB/FT)	SIGN BOLT LENGTH (IN)
	PERFORATED STEEL TUBE POST SIZE A (IN)	GAUGE			SIZE (INxINxIN)	CONCRETE (CY)	B (IN)	GAUGE		
E-1	2	12	2.42	43	8x8x36	0.05	2 1/2 x 2 1/2	7	5.59	2 1/2
E-2	2 1/2	10	4.01	91	8x8x36	0.05	3x3	7	6.87	3

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	
1	02-92	JEC	6	05-15	HEB				
2	12-94	HEB	7	12-16	HEB				
3	06-99	HEB	8	02-23	RDL				
4	12-01	NQB							
5	12-13	HEB							

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
CADD FILE NAME: 616-7\_0423.dgn  
DRAWING DATE: JULY, 1991

**IDAHO TRANSPORTATION DEPARTMENT**  
YOUR Safety→YOUR Mobility→YOUR Economic Opportunity  
BOISE IDAHO

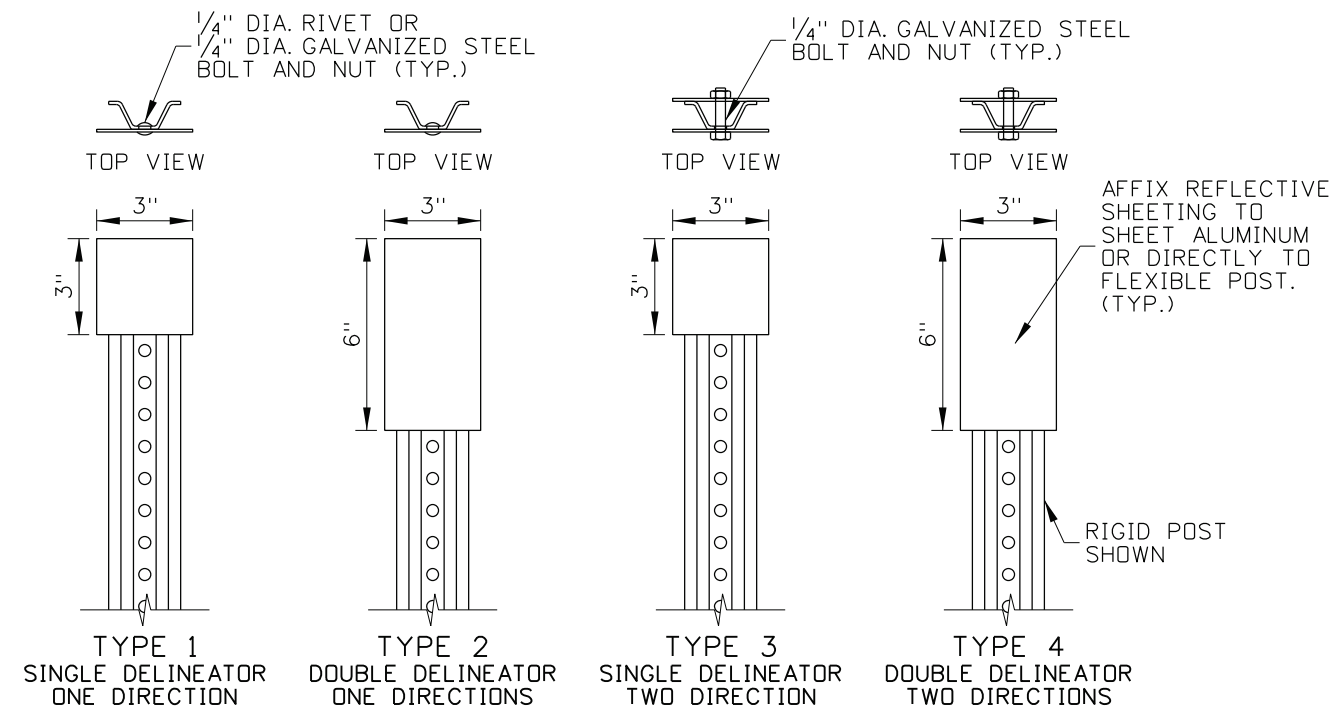
ORIGINAL SIGNED BY: MONICA CRIDER  
HIGHWAY DESIGN ENGINEER

STANDARD DRAWING  
STEEL SIGN POST AND FOUNDATION  
TYPE E - PERFORATED STEEL TUBE POST

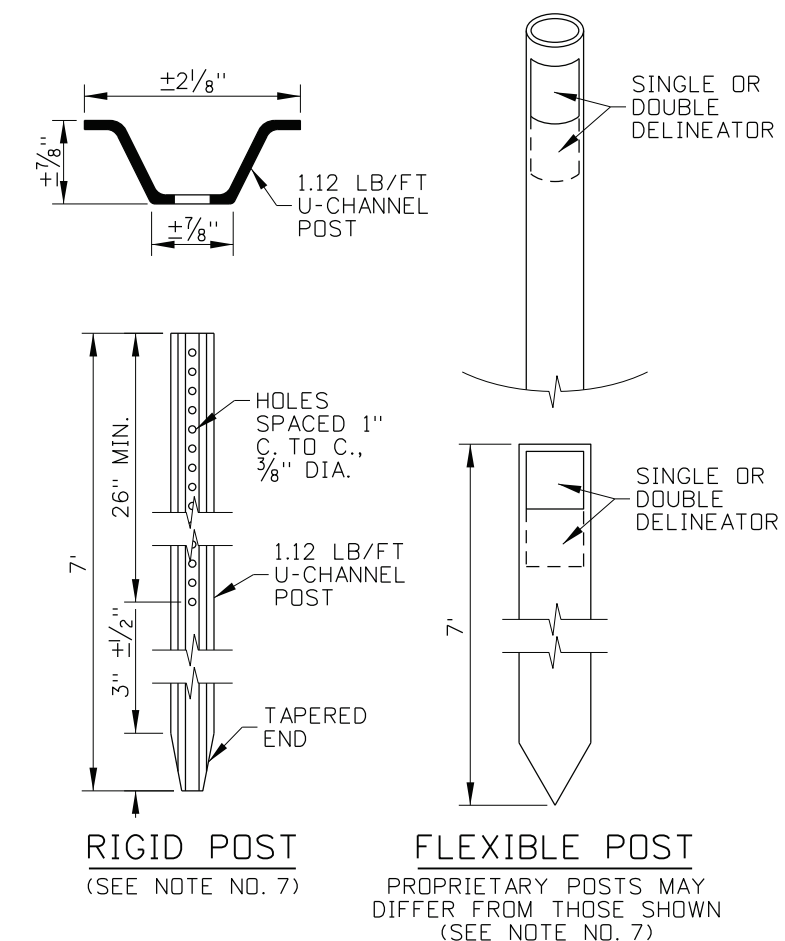
ENGLISH  
STANDARD DRAWING NO. 616-7  
SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

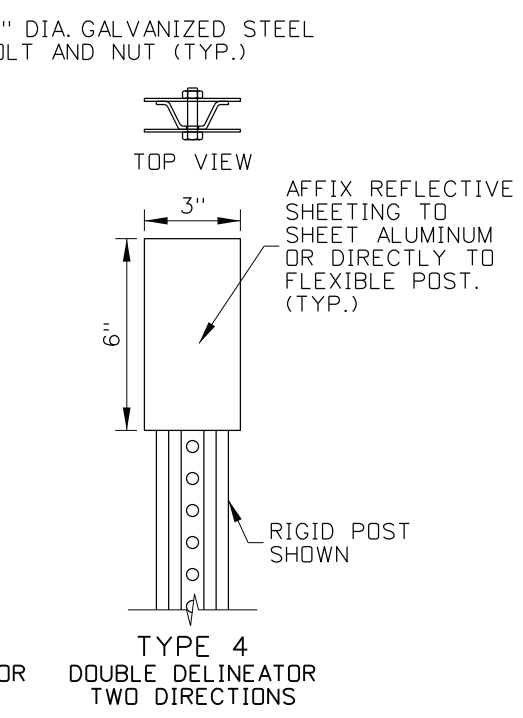
PROFESSIONAL ENGINEER  
RYAN D. LANCASTER  
STATE OF IDAHO  
LICENSED PROFESSIONAL ENGINEER  
MARCH 1, 2004



**DELINEATOR TYPES**  
TYPE 9 NOT SHOWN  
(SEE NOTE NO. 9)

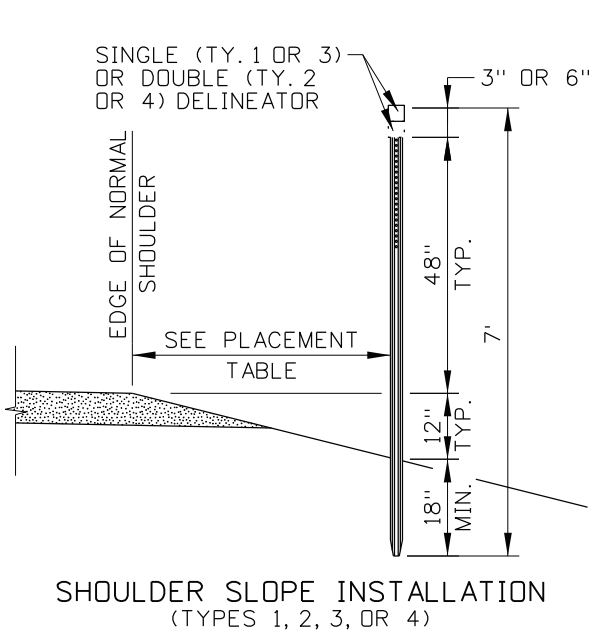


REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	06-05	MSM	6	05-18	RDL		
2	11-11	TEM	7	03-21	RDL		
3	04-14	RDL	8	02-22	RDL		
4	03-15	PJF					
5	05-16	RDL					

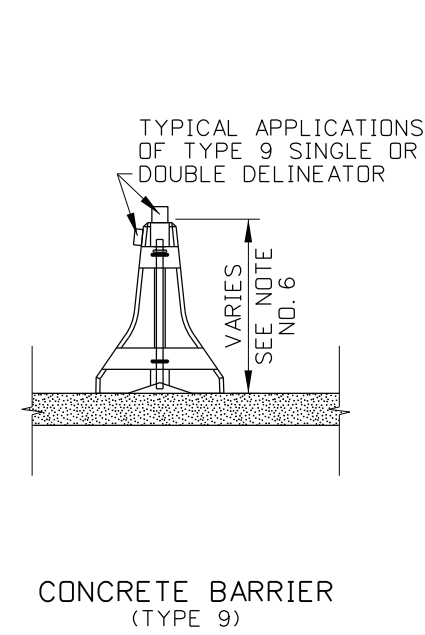


**HORIZONTAL CURVE**  
(SEE NOTE NO. 2)

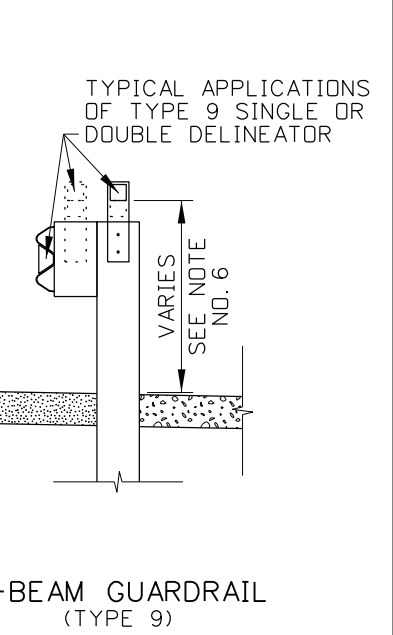
HORIZONTAL CURVE SPACING TABLE				
RADIUS OF CURVE (FEET)	APPROXIMATE SPACING ON CURVE (FEET)	1st SPACE FROM CURVE (FEET)	2nd SPACE FROM CURVE (FEET)	3rd SPACE FROM CURVE (FEET)
50	20	40	60	120
115	25	50	75	150
180	35	70	105	210
250	40	80	120	240
300	50	100	150	300
400	55	110	165	300
500	65	130	195	300
600	70	140	210	300
700	75	150	225	300
800	80	160	240	300
900	85	170	255	300
1,000	90	180	270	300
1,500	115	230	300	300
2,500	150	300	300	300
5,000	210	300	300	300
10,000	300	300	300	300
> 10,000	528	528	528	528



**SHOULDER SLOPE INSTALLATION**  
(TYPES 1, 2, 3, OR 4)



**CONCRETE BARRIER**  
(TYPE 9)



**W-BEAM GUARDRAIL**  
(TYPE 9)

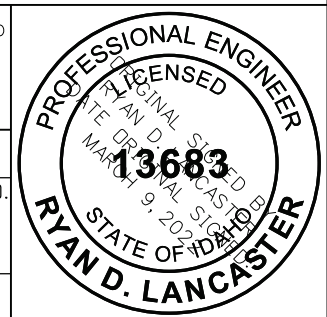
**DELINEATOR INSTALLATIONS**

PLACEMENT TABLE	
SHOULDER TYPE	OFFSET
2:1 SLOPE	2'
4:1 SLOPE	4'
6:1 OR FLATTER	6' TO 8'
CURB SECTION	6' TO 8'
GUARDRAIL OR CONCRETE BARRIER	VARIES

**NOTES**

1. MATCH THE DELINEATOR COLOR TO THE ADJACENT PAVEMENT MARKINGS. USE RED DELINEATORS ON TRUCK ESCAPE RAMPS OR ON THE REVERSE SIDE OF A DELINEATOR TO INDICATE TRAVEL IN THE WRONG DIRECTION ON DIVIDED OR ONE-WAY HIGHWAYS.
2. SPACE DELINEATORS 528 FEET (0.1 MI.) APART ON MAINLINE TANGENT SECTIONS. SPACE DELINEATORS ON CURVES IN ACCORDANCE WITH THE HORIZONTAL CURVE SPACING TABLE. SPACE DELINEATORS 100 FEET APART ON RAMP TANGENT SECTIONS. SPACE RED DELINEATORS ON TRUCK ESCAPE RAMPS AT 50 FOOT INTERVALS.
3. DELINEATE ACCELERATION AND DECELERATION LANES WITH DOUBLE DELINEATORS SPACED AT 100 FOOT INTERVALS.
4. DELINEATE GUARDRAIL AND CONCRETE BARRIERS. SPACING MAY BE REDUCED ON GUARDRAIL AND CONCRETE BARRIER TO FORM A CONTINUOUS OR NEARLY CONTINUOUS "RIBBON" OF DELINEATION.
5. WHEN UNIFORM SPACING IS INTERRUPTED BY DRIVEWAYS, INTERSECTIONS, OR OTHER FEATURES, RELOCATE THE DELINEATOR NOT FURTHER THAN ONE QUARTER OF THE UNIFORM SPACING. DELINEATORS CAN BE OMITTED WHEN STILL FALLING WITHIN THESE FEATURES.
6. MEASURE DELINEATOR HEIGHT VERTICALLY FROM THE BOTTOM OF THE LOWEST REFLECTIVE DEVICE TO THE ELEVATION OF THE EDGE OF NORMAL SHOULDER. DELINEATORS ATTACHED TO GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRIER CAN BE INSTALLED LOWER THAN 48".
7. USE RIGID OR FLEXIBLE POSTS FOR TYPES 1, 2, 3, AND 4. SEE PROJECT PLANS FOR SPECIFIC INSTRUCTIONS.
8. ON GUARDRAIL AND CONCRETE BARRIERS, USE TYPE 9 DELINEATORS OR TYPE 1, 2, 3, OR 4 DELINEATORS BEHIND THE BARRIER.
9. TYPE 9 DELINEATORS VARY IN SHAPE AND CAN BE ATTACHED TO THE TOP OR SIDE OF W-BEAM GUARDRAIL, GUARDRAIL POSTS, OR CONCRETE BARRIER. IF "BUTTERFLY" STYLE GUARDRAIL DELINEATORS ARE USED, ENSURE THE DELINEATORS ARE PLASTIC.
10. DRAWINGS NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho



**IDAHO TRANSPORTATION DEPARTMENT**

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**DELINEATORS**

**English**  
STANDARD DRAWING NO.  
**617-1**  
SHEET 1 OF 1