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SHEET NO.	DESCRIPTION
1	TITLE SHEET
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3	TOTAL OWNERSHIP MAP
4	PROJECT CLEARANCE SUMMARY
5-7	TYPICAL SECTIONS
8-9	ROADWAY SUMMARY
10	BRIDGE SUMMARY
11	CRASH CUSHION SUMMARY
12	STORM DRAIN PIPE SUMMARY
13-16	ROADWAY PLAN AND PROFILE
17-18	ROADWAY GRADING DETAIL
19	PARCEL 1 APPROACH PLAN AND PROFILE
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24	SIGNING AND PAVEMENT MARKING PLAN
25	SIGN DETAIL
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1-6	RIGHT OF WAY PLANS

LEADING IDAHO LOCAL BRIDGE PROGRAM

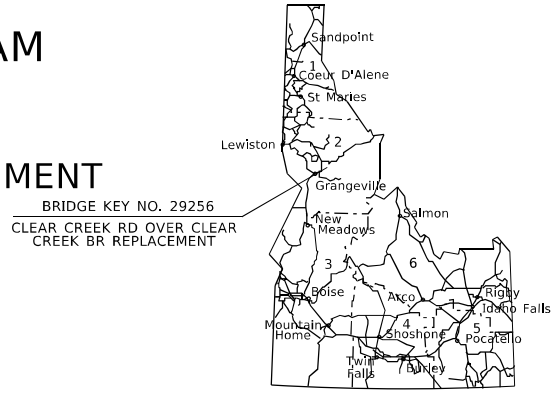
PLAN AND PROFILE OF PROPOSED

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

BRIDGE KEY NO. 29256

IDAHO COUNTY

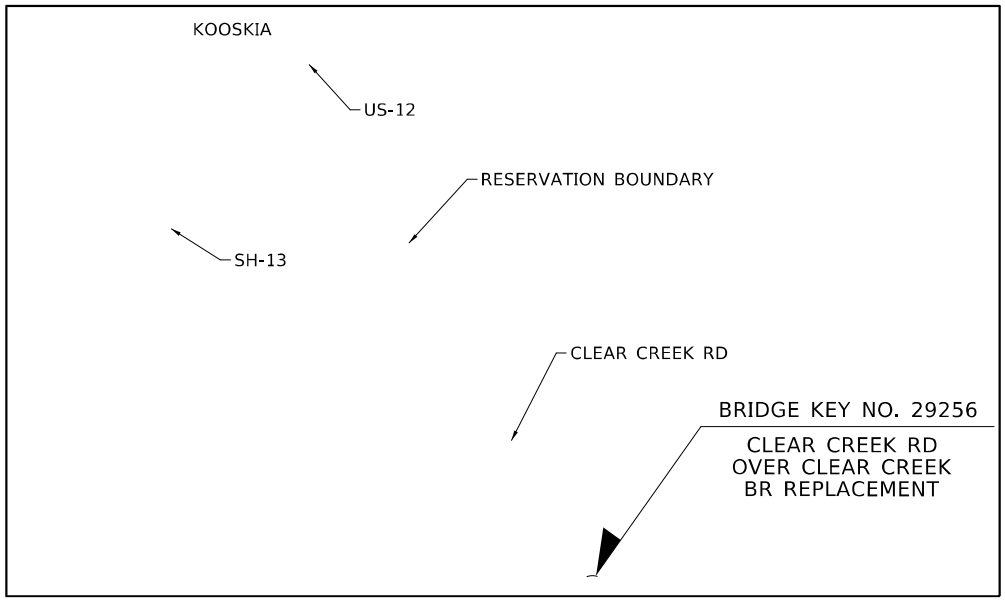
MARCH, 2026



SCALES IN FEET

HORIZONTAL 0 20 40 FEET

VERTICAL 0 5 10 FEET



VICINITY MAP SCALE

1.5 0 1.5 3

MILES

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
29256 TITL D01.dgn

DRAWING DATE:
3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

TITLE SHEET
CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY
IDAHO

KEY NUMBER
29256

SHEET 1 OF 27

Approved for Advertising

Date Approved

March 24, 2026 12:51:23 PM
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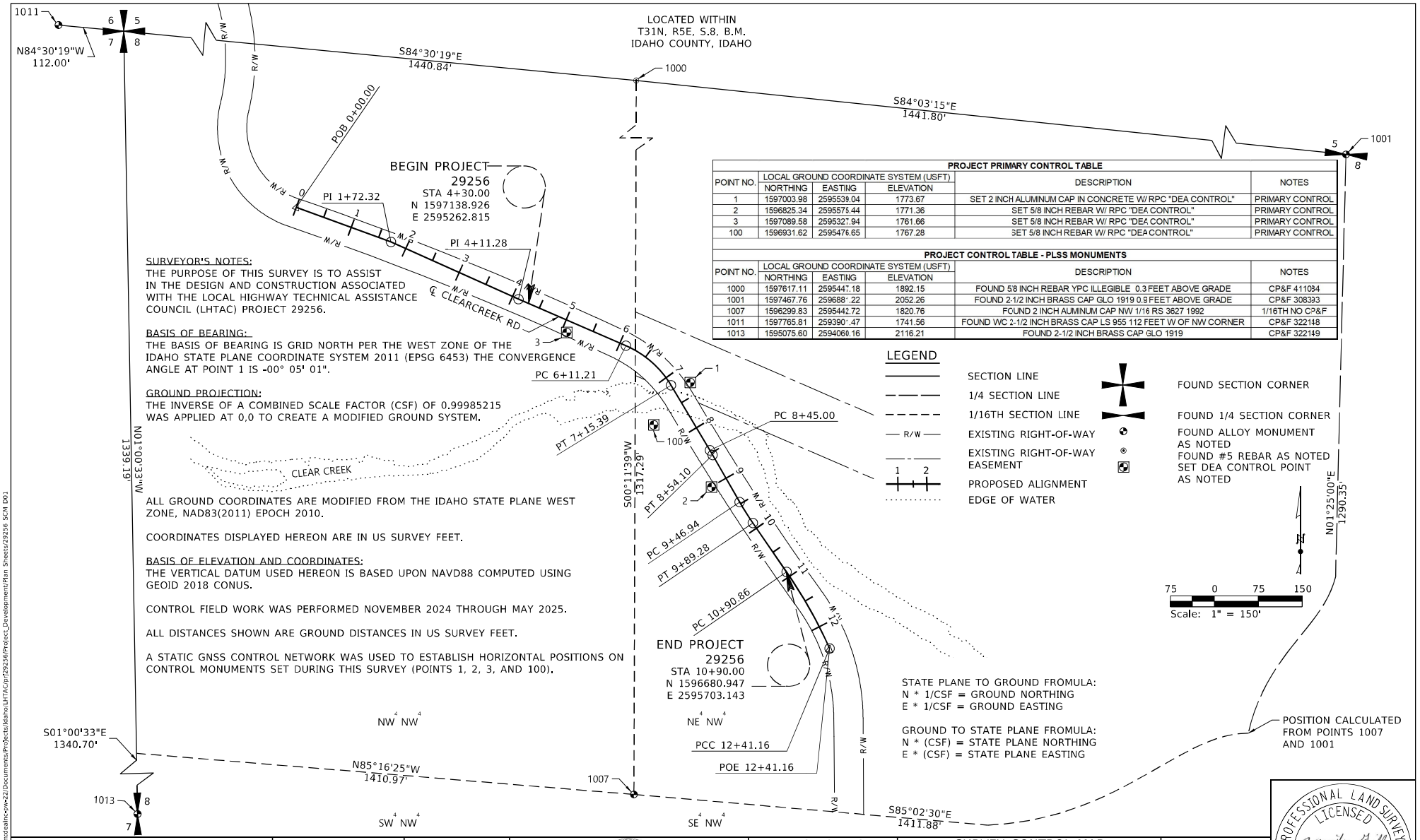

PROJECT PRIMARY CONTROL TABLE

POINT NO.	LOCAL GROUND COORDINATE SYSTEM (USFT)			DESCRIPTION	NOTES
	NORTHING	EASTING	ELEVATION		
1	1597003.98	2595539.04	1773.67	SET 2 INCH ALUMINUM CAP IN CONCRETE W/ RPC "DEA CONTROL"	PRIMARY CONTROL
2	1596825.34	2595575.44	1771.36	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL
3	1597089.58	2595327.94	1761.66	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL
100	1596931.62	2595476.65	1767.28	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL

PROJECT CONTROL TABLE - PLSS MONUMENTS

POINT NO.	LOCAL GROUND COORDINATE SYSTEM (USFT)			DESCRIPTION	NOTES
	NORTHING	EASTING	ELEVATION		
1000	1597617.11	2595447.18	1892.15	FOUND 5/8 INCH REBAR YPC ILLEGIBLE 0.3 FEET ABOVE GRADE	CP&F 411084
1001	1597467.76	259688[illegible].22	2052.26	FOUND 2-1/2 INCH BRASS CAP GLO 1919 0.9 FEET ABOVE GRADE	CP&F 308393
1007	1596299.83	2595442.72	1820.76	FOUND 2 INCH AUMINUM CAP NW 1/16 RS 3627 1992	1/16TH NO CP&F
1011	1597765.81	259390[illegible].47	1741.56	FOUND WC 2-1/2 INCH BRASS CAP LS 955 112 FEET W OF NW CORNER	CP&F 322148
1013	1595075.60	2594060.16	2116.21	FOUND 2-1/2 INCH BRASS CAP GLO 1919	CP&F 322149

SURVEYOR'S NOTES:
THE PURPOSE OF THIS SURVEY IS TO ASSIST IN THE DESIGN AND CONSTRUCTION ASSOCIATED WITH THE LOCAL HIGHWAY TECHNICAL ASSISTANCE COUNCIL (LHTAC) PROJECT 29256.

BASIS OF BEARING:
THE BASIS OF BEARING IS GRID NORTH PER THE WEST ZONE OF THE IDAHO STATE PLANE COORDINATE SYSTEM 2011 (EPSG 6453) THE CONVERGENCE ANGLE AT POINT 1 IS -00° 05' 01".

GROUND PROJECTION:
THE INVERSE OF A COMBINED SCALE FACTOR (CSF) OF 0.99985215 WAS APPLIED AT 0,0 TO CREATE A MODIFIED GROUND SYSTEM.

ALL GROUND COORDINATES ARE MODIFIED FROM THE IDAHO STATE PLANE WEST ZONE, NAD83(2011) EPOCH 2010.

COORDINATES DISPLAYED HEREON ARE IN US SURVEY FEET.

BASIS OF ELEVATION AND COORDINATES:
THE VERTICAL DATUM USED HEREON IS BASED UPON NAVD88 COMPUTED USING GEOID 2018 CONUS.

CONTROL FIELD WORK WAS PERFORMED NOVEMBER 2024 THROUGH MAY 2025.

ALL DISTANCES SHOWN ARE GROUND DISTANCES IN US SURVEY FEET.

A STATIC GNSS CONTROL NETWORK WAS USED TO ESTABLISH HORIZONTAL POSITIONS ON CONTROL MONUMENTS SET DURING THIS SURVEY (POINTS 1, 2, 3, AND 100).

LEGEND

- SECTION LINE
- 1/4 SECTION LINE
- 1/16TH SECTION LINE
- R/W — EXISTING RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY EASEMENT
- 1 2 — PROPOSED ALIGNMENT
- EDGE OF WATER
- FOUND SECTION CORNER
- FOUND 1/4 SECTION CORNER
- FOUND ALLOY MONUMENT AS NOTED
- FOUND #5 REBAR AS NOTED SET DEA CONTROL POINT AS NOTED

75 0 75 150
Scale: 1" = 150'

STATE PLANE TO GROUND FROMULA:
N * 1/CSF = GROUND NORTHING
E * 1/CSF = GROUND EASTING

GROUND TO STATE PLANE FROMULA:
N * (CSF) = STATE PLANE NORTHING
E * (CSF) = STATE PLANE EASTING

PROFESSIONAL LAND SURVEYOR LICENSED 22135 03/23/2026 STATE OF IDAHO JENNIFER R. GILLEY

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	SURVEY CONTROL MAP	ENGLISH
NO.	DATE	BY	DESCRIPTION	J. GILLEY			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL				KEY NUMBER 29256
				DETAILED J. GILLEY	CADD FILE NAME 29256 SCM D01.dgn			
				DRAWING CHECKED D. GOWER	DRAWING DATE: 3/26/2026			SHEET 2 OF 27

DAVID EVANS AND ASSOCIATES INC.

March 23, 2026 3:49:31 PM
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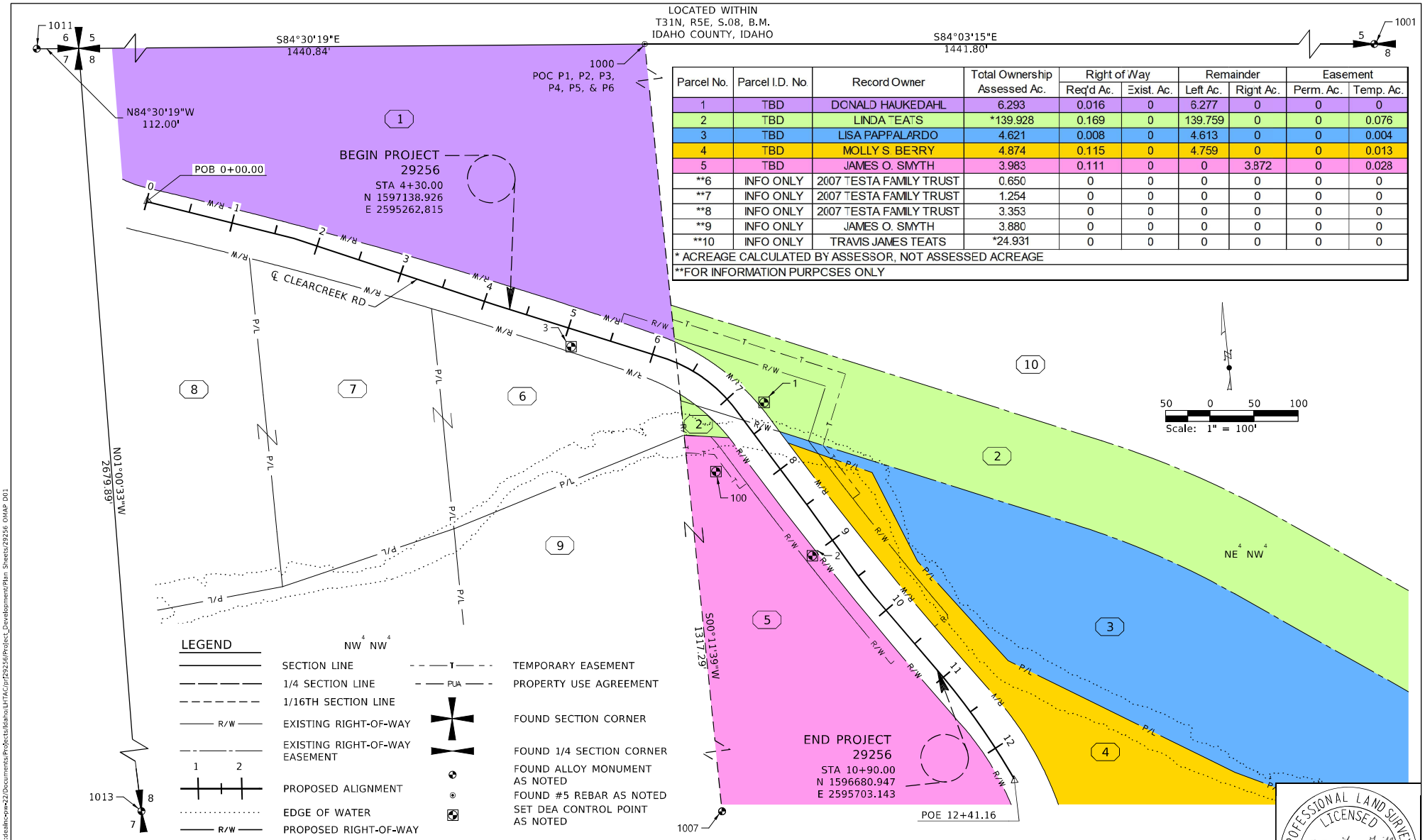

Parcel No.	Parcel I.D. No.	Record Owner	Total Ownership Assessed Ac.	Right of Way		Remainder		Easement	
				Req'd Ac.	Exist. Ac.	Left Ac.	Right Ac.	Perm. Ac.	Temp. Ac.
1	TBD	DONALD HAUKEDAHL	6.293	0.016	0	6.277	0	0	0
2	TBD	LINDA TEATS	*139.928	0.169	0	139.759	0	0	0.076
3	TBD	LISA PAPPALARDO	4.621	0.008	0	4.613	0	0	0.004
4	TBD	MOLLY S. BERRY	4.874	0.115	0	4.759	0	0	0.013
5	TBD	JAMES O. SMYTH	3.983	0.111	0	0	3.872	0	0.028
**6	INFO ONLY	2007 TESTA FAMILY TRUST	0.650	0	0	0	0	0	0
**7	INFO ONLY	2007 TESTA FAMILY TRUST	1.254	0	0	0	0	0	0
**8	INFO ONLY	2007 TESTA FAMILY TRUST	3.353	0	0	0	0	0	0
**9	INFO ONLY	JAMES O. SMYTH	3.880	0	0	0	0	0	0
**10	INFO ONLY	TRAVIS JAMES TEATS	*24.931	0	0	0	0	0	0

* ACREAGE CALCULATED BY ASSESSOR, NOT ASSESSED ACREAGE

**FOR INFORMATION PURPCSES ONLY

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED J. GILLEY	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	DAVID EVANS AND ASSOCIATES INC.	PROJECT NO.
DESIGN CHECKED D. GOWER			
DETAILED D. GOWER	CADD FILE NAME 29256 OMAP D01.dgn		
DRAWING CHECKED J. GILLEY	DRAWING DATE: 3/26/2026		

TOTAL OWNERSHIP MAP
CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH
COUNTY IDAHO
KEY NUMBER 29256
SHEET 3 OF 27

PROFESSIONAL LAND SURVEYOR LICENSED 22135 03/23/2026 STATE OF IDAHO JENNIFER R. GILLEY

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CLEARANCES

	CLEARED UNDER PROJECT NO.	APPROVAL DATE
PROJECT STANDARDS		
CHARTER APPROVAL ☐ AASHTO ☐ 3R ☐ 1R ☐ STATE ☐ PP ■ OTHER PRELIMINARY DESIGN REPORT	29256	5/28/2025
DESIGN EXCEPTIONS:		
PUBLIC HEARING WAIVER	N/A	
PUBLIC HEARING DATE (Latest hearing date held or scheduled for opportunity)	N/A	
DESIGN APPROVAL	29256	6/18/2025
RECLAMATION PLAN APPROVAL NO(S)	N/A	
AIRPORT	N/A	
Land Survey Monument Search and Documentation (I.C.55-1613)	29256	TBD
R/W CERTIFICATE: Issued by ☐ HQ ☐ DISTRICT	29256	TBD
TRIBAL LANDS: ☐ AGREEMENT REQUIRED ☐ SPECIAL PROVISIONS FOR CONTRACT PROPOSAL	N/A	
BRIDGE PS & E	N/A	
ENVIRONMENTAL DECISION: TYPE ■ CAT-EX ☐ FONSI ☐ ROD	29256	
ENVIRONMENTAL RE-EVALUATION	N/A	

PERMITS

	CLEARED UNDER PROJECT NO.	APPROVAL DATE	EXPIRATION DATE
IDAHO DEPARTMENT OF WATER RESOURCES PERMIT NO(S) TBD	29256	TBD	TBD
US ARMY CORPS OF ENGINEERS 404 PERMIT NO(S) TBD	29256	TBD	TBD
OTHER	N/A		

DEQ SECTION 401 WATER QUALITY CERTIFICATION	☐ YES	■ NO
NPDES GENERAL PERMIT/SWPPP REQUIRED	☐ YES	■ NO
POLLUTION PREVENTION PLAN REQUIRED	■ YES	☐ NO

AGREEMENTS (List Appropriate Name)

	CLEARED UNDER PROJECT NO.	APPROVAL DATE
LOCAL: CITY	N/A	
COUNTY	N/A	
HIGHWAY DISTRICT	N/A	
ROAD CLOSURE AND MAINTENANCE	N/A	
STATE/LOCAL CONSTRUCTION	N/A	

IRRIGATION DISTRICT(S): Crossing Agreement Required ☐ YES ■ NO
(Signatures Required on either Structure Drawing or Bridge Sheet)

UTILITIES: List all Utilities shown on plans

	RETAIN & PROTECT	APPROVAL DATES: UTILITY HEARING WAIVER	APPROVAL DATES: AGREEMENT	AGREEMENT NO.
Co. LUMEN	☐	SENT 11/7/2025		
Co. IDAHO COUNTY LIGHT & POWER	■	SENT 11/7/2025		
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			
Co.	☐			

ESTIMATING BASIS

CONCRETE:

PORTLAND CEMENT CONCRETE USING COURSE AGGREGATE SIZE NO. 4.

TACK COAT:

NEW CONSTRUCTION CSS-1 DILUTED EMULSIFIED ASPHALT FOR TACK COAT AT 0.12 GALLONS/SY.

EXISTING SURFACES CSS-1 DILUTED EMULSIFIED ASPHALT FOR TACK COAT AT 0.18 GALLONS/SY.

PAVING:

CLEAR CREEK RD: PG 64-28 ASPHALT BINDER FOR SUPERPAVE HMA PAVEMENT CLASS SP-3 (1/2 INCH NOMINAL AGGREGATE) ESTIMATED AT 146 PCF WET DENSITY.

AGGREGATE:

3/4-INCH TYPE B AGGREGATE BASE, WET DENSITY ESTIMATED AT 140 PCF @ 7% MOISTURE CONTENT.

SUBGRADE:

ALLUVIUM GRAVEL WITH SAND AND COBBLES, WET DENSITY ESTIMATED AT 130 PCF @ 5% MOISTURE CONTENT.

WATER FOR DUST ABATEMENT:

0.5 GAL. PER SY OF EXPOSED SUBGRADE.

SMOOTHNESS:

PAVEMENT SMOOTHNESS TEST WILL BE WITH A 10 FT STRAIGHTEDGE.

NOTES

1. GRANULAR SUBBASE AND STRUCTURAL BACKFILL IN THE PLANS ARE UNFACTORED AND ASSUMED 100% WASTE OF EXISTING PAVEMENT, BASE, AND SUBGRADE SOILS.
2. EXCAVATION QUANTITIES SHOWN IN THE PLANS ARE UNFACTORED.
3. MATERIAL REPORTS ARE AVAILABLE FOR CONTRACTORS USE.

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO.	PROJECT CLEARANCE SUMMARY	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER		GREAT SEAL OF IDAHO COUNTY		CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL	CADD FILE NAME 29256 PCSM D01.dgn				KEY NUMBER 29256
				DETAILED B. CARVER		DAVID EVANS AND ASSOCIATES INC.			
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026				SHEET 4 OF 27

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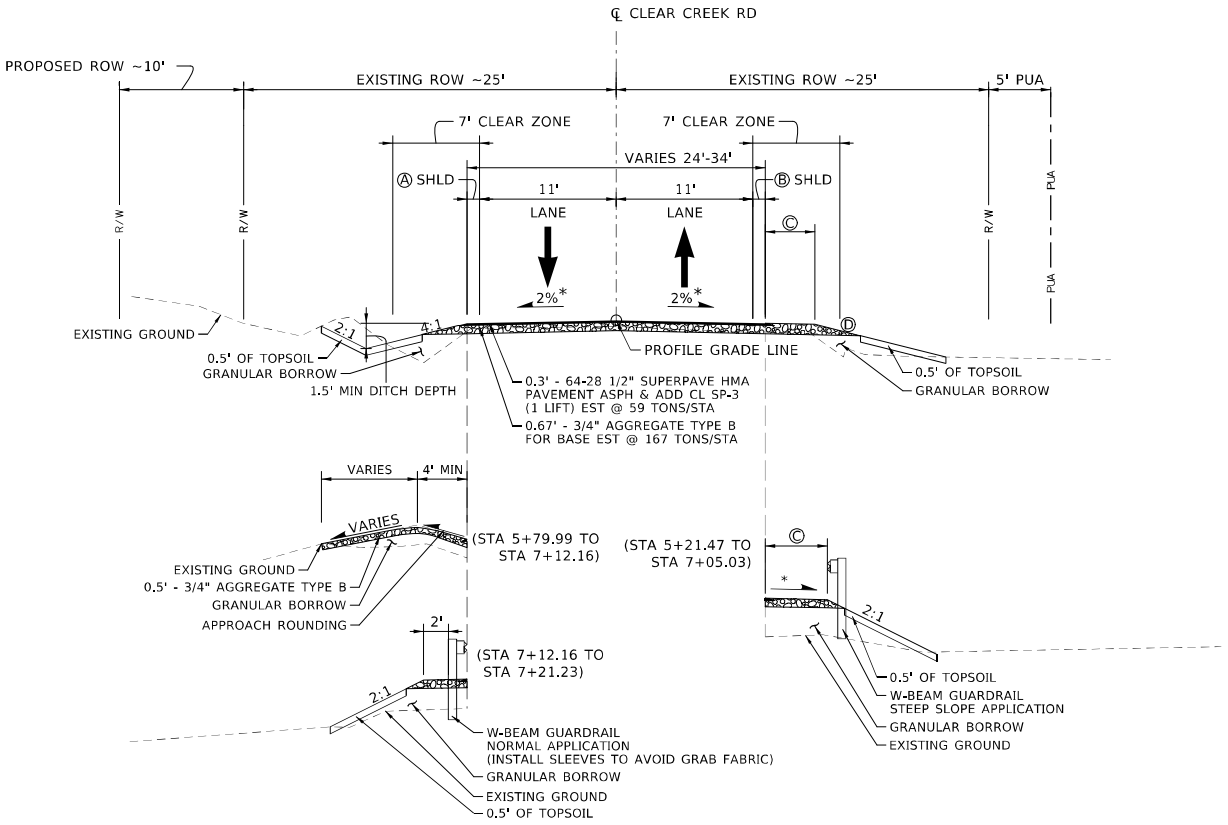
CLEAR CREEK RD TYPICAL SECTION

(STA 4+30.00 TO STA 7+18.19)
N.T.S.



CLEAR CREEK RD BRIDGE TYPICAL SECTION

(STA 7+18.19 TO STA 7+96.80)
(SEE BRIDGE PLANS)

NOTES

* SEE SUPERELEVATION DIAGRAM

SHOULDER WIDTH	
STATION RANGE	Ⓐ
4+30.00 TO 6+11.21	1.0'
6+11.21 TO 7+22.72	1.0' - 6.0'
7+22.72 TO 7+30.27	6.0'
STATION RANGE	Ⓑ
4+30.00 TO 6+71.67	1.0'
6+71.67 TO 7+05.03	1.0' - 6.0'

GRAVEL SHOULDER WIDTH	
STATION RANGE	Ⓒ
4+30.00 TO 5+02.00	2.0'
5+02.00 TO 5+14.00	2.0' - 5.0'
5+14.00 TO 6+71.67	5.0'
6+71.67 TO 7+05.03	5.0' - 0'

FORESLOPE	
STATION RANGE	Ⓓ
4+30.00 TO 5+02.00	4:1
5+02.00 TO 5+14.00	4:1 - 2:1
5+14.00 TO 7+05.03	2:1

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	
DESIGN CHECKED A. MCCALL		
DETAILED B. CARVER	CADD FILE NAME 29256 TYPI D01.dgn	
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026	DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.	TYPICAL SECTIONS	ENGLISH
	CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
		KEY NUMBER 29256
		SHEET 5 OF 27

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CLEAR CREEK RD TYPICAL SECTION

(STA 7+96.80 TO STA 10+00.00)
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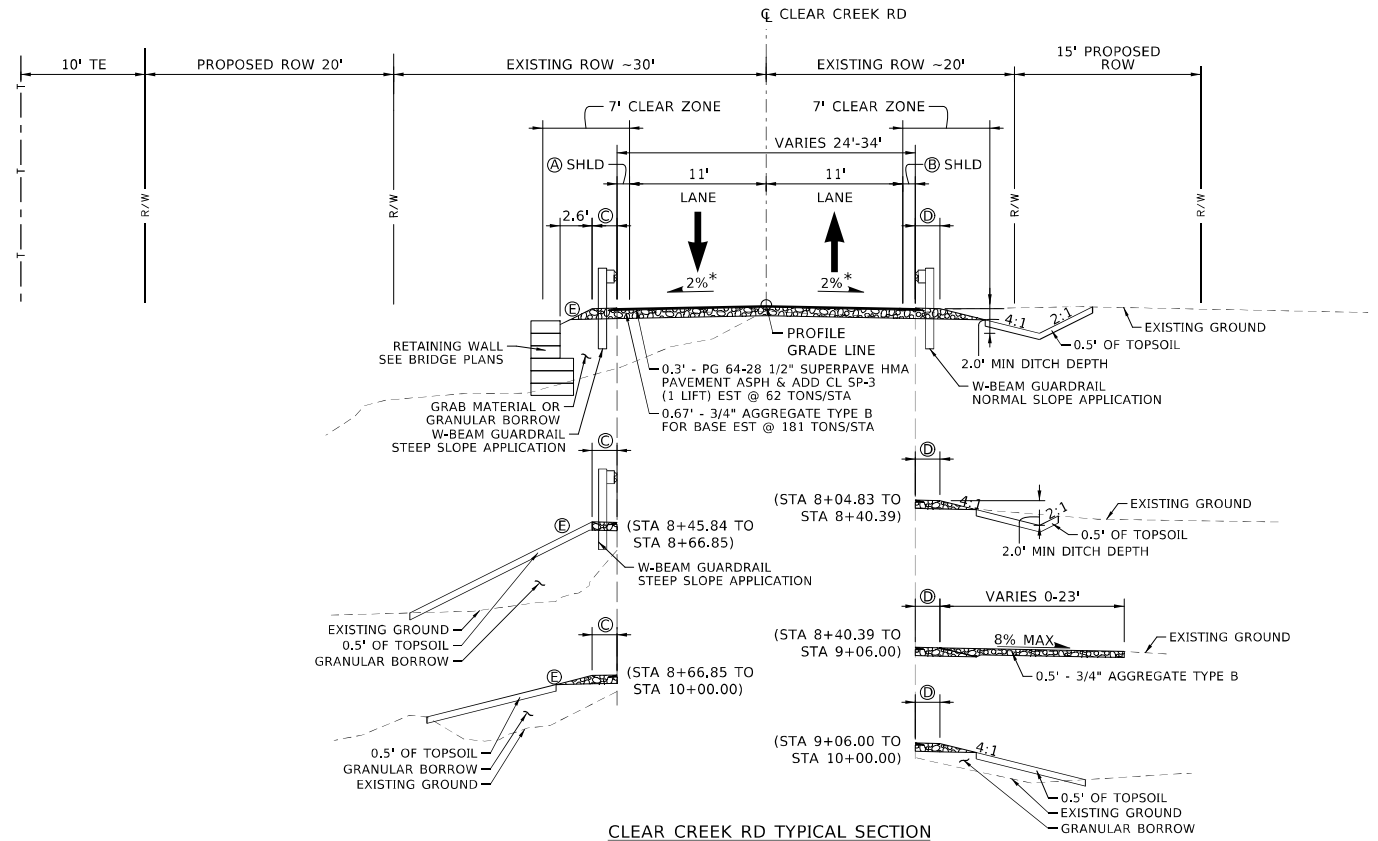
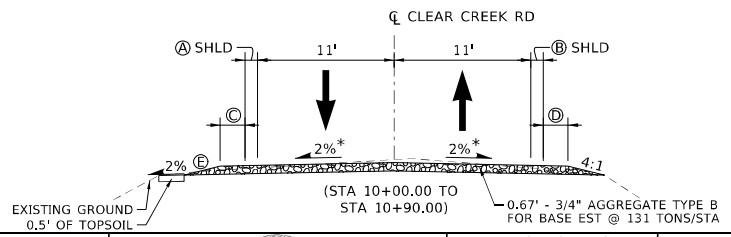


CLEAR CREEK RD TYPICAL SECTION

(STA 10+00.00 TO STA 10+90.00)
N.T.S.



NOTES

* SEE SUPERELEVATION DIAGRAM

SHOULDER WIDTH	
STATION RANGE	Ⓐ
8+08.90 TO 8+77.00	6.0'
8+77.00 TO 8+97.00	6.0' - 1.0'
8+97.00 TO 10+90.00	1.0'
STATION RANGE	Ⓑ
7+84.69 TO 8+06.00	6.0'
8+06.00 TO 8+36.00	6.0' - 1.0'
8+36.00 TO 10+90.00	1.0'

SHOULDER WIDTH	
STATION RANGE	Ⓒ
8+08.90 TO 10+00.00	2.0'
10+00.00 TO 10+20.00	2.0' - 0'
10+20.00 TO 10+90.00	0'
STATION RANGE	Ⓓ
7+84.69 TO 10+00.00	2.0'
10+00.00 TO 10+20.00	2.0' - 0'
10+20.00 TO 10+90.00	0'

FORESLOPE	
STATION RANGE	Ⓔ
7+84.69 TO 8+81.00	2:1
8+81.00 TO 8+96.13	2:1 - 4:1
8+96.13 TO 10+90.00	4:1

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	
DESIGN CHECKED A. MCCALL		
DETAILED B. CARVER	CADD FILE NAME 29256 TYPI D02.dgn	
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026	

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.	TYPICAL SECTIONS
	CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY	IDAHO
KEY NUMBER	29256
SHEET	6 OF 27

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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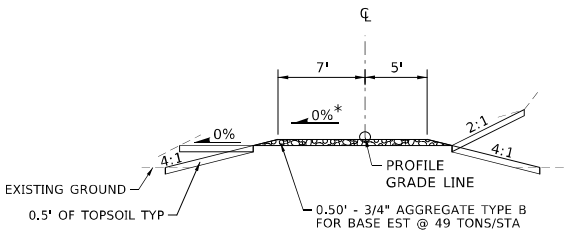
NOTES
* MATCH EXISTING CROSS SLOPE AT STA 1+65.44 AND TRANSITION FROM STA 1+40.00

PARCEL 1 APPROACH TYPICAL SECTION

(STA 0+12.53 TO STA 1+65.44)
N.T.S.



REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	DAVID EVANS AND ASSOCIATES INC.	PROJECT NO.	TYPICAL SECTIONS	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER				CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL					KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 TYPI D03.dgn				
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026				SHEET 7 OF 27

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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SHEET NUMBER				13	15	21	22	24	26						
SECTION				ROADWAY	ROADWAY	HYDR	PPP	PMP	TTC						
ITEM NO.	ITEM	UNIT	TOTAL												
107-019A	SURVEY MONUMENT PRESERVATION	CA	5000												
201-010A	CLEARING & GRUBBING	LS	1												
203-002A	REMOVAL OF OBSTRUCTIONS	EACH	3	1	2										
203-006A	REMOVAL OF SIGN	EACH	11					11							
203-075A	REMOVAL OF FENCE	FT	347	317	30										
203-080A	REMOVAL OF GUARDRAIL	FT	160		160										
205-005A	EXCAVATION	CY	2180												
205-040A	GRANULAR BORROW	CY	1520			182									
205-060A	WATER FOR DUST ABATEMENT	MG	1												
205-100A	GUARDRAIL TERMINAL GRADING	EACH	3	1	2										
212-105A	WATER AND POLLUTION	CA	10000												
212-110A	WATER POLLUTION CONTROL MANAGER	LS	1												
213-005A	TOPSOIL (6")	CY	254				254								
251-005A	MIGRATORY BIRD TREATY ACT COMPLIANCE	CA	7000												
303-022A	3/4" AGGREGATE TYPE B FOR BASE	TON	1180												
401-020A	CSS-1 DILUTED EMULSIFIED ASPHALT FOR TACK COAT	GAL	290												
405-435A	SUPERPAVE HMA PAVEMENT INCLUDING ASPHALT & ADDITIVES CLASS SP-3	TON	300												
602-025A	12" PIPE CULVERT	FT	38	38											
610-045A	FENCE TYPE 5 B	FT	347	314	33										
610-101A	GATE TYPE 1A	EACH	2	2											
610-300A	TEMPORARY FENCE	FT	153	153											
610-305A	TEMPORARY GATE	EACH	1	1											
612-005A	W-BEAM GUARDRAIL	FT	301	99	202										
612-115C	GUARDRAIL TERMINAL, TANGENT	EACH	4	1	3										
612-120A	GUARDRAIL TRANSITION, LOW SPEED	EACH	4		4										
616-010A	SIGN TYPE B-1	SF	24					24							
616-055B	WOOD SIGN POST TYPE D-2	FT	34					34							
621-005A	SEED BED PREPARATION	ACRE	0.324				0.324								
621-010A	SEEDING (PERMANENT)	ACRE	0.324				0.324								
621-035A	FERTILIZING	ACRE	0.324				0.324								
621-065A	HYDRAULICALLY APPLIED EROSION CONTROL PRODUCTS	ACRE	0.324				0.324								
624-005A	LOOSE RIPRAP (CLASS VII)	CY	547			547									
624-005B	LOOSE RIPRAP (CLASS I)	CY	5				5								
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	SF	280						280						
626-040A	BARRICADE TYPE 3	EACH	8						8						
626-100A	MISCELLANEOUS TEMPORARY TRAFFIC CONTROL ITEMS	CA	3000						3000						
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	HR	224						224						
630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE	FT	2282					2282							
640-010A	RIPRAP/EROSION CONTROL GEOTEXTILE (HIGH STRENGTH)	SY	447			447									
675-005A	SURVEY	LS	1												

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	DAVID EVANS AND ASSOCIATES INC.	PROJECT NO.
DESIGN CHECKED A. MCCALL			
DETAILED B. CARVER	CADD FILE NAME 29256 RSUM D01.dgn		
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026		

ROADWAY SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 8 OF 27

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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SHEET NUMBER				13	15	21	22	24	26						
SECTION				ROADWAY	ROADWAY	HYDR	PPP	PMP	TTC						
ITEM NO.	ITEM	UNIT	TOTAL												
675-010A	DIRECTED SURVEYING	CA	3000												
677-005A	RECORD DRAWINGS	LS	1												
S900-50A	CONTINGENCY AMOUNT - MISC WORK	CA	10000												
S900-50B	CONTINGENCY AMOUNT - REMOVAL OF LEAD-BASED PAINT	CA	10000												
S904-05A	SP TEMPORARY DIVERSION	LS	1												
S913-05A	SP STREAMBED MATERIAL	CY	881			881									
Z629-05A	MOBILIZATION	LS	1												

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 29256 RSUM D02.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO. 21208

ROADWAY SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 9 OF 27

PROFESSIONAL ENGINEER LICENSED Alan McCall 3/23/2026 STATE OF IDAHO ALAN MCCALL

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SHEET NUMBER				BRIDGE
STATION - STATION				7+18.19 TO 7+96.80
ITEM NO.	ITEM	UNIT	TOTAL	
203-020A	REMOVAL OF BRIDGE - FULL (CLEAR CREEK ROAD)	EACH	1	1
210-005A	STRUCTURE EXCAVATION SCHEDULE NO. 1	CY	442	442
215-005A	GEOSYNTHETIC REINFORCED ABUTMENT BACKFILL	CY	672	672
502-140A	CONCRETE CLASS 40-A SCHEDULE NO. 1	CY	168.3	168.3
502-310A	CONCRETE CLASS 40 AF SCHEDULE NO. 2	CY	118.4	118.4
502-375A	PRESTRESSED BULB TEE GIRDER (36" DEPTH)	FT	376.7	376.7
503-010A	METAL REINFORCEMENT SCHEDULE NO. 1	LB	29941	29941
503-015A	METAL REINFORCEMENT SCHEDULE NO. 2	LB	11568	11568
503-020A	EPOXY COATED METAL REINFORCEMENT	LB	15235	15235
504-050A	3-TUBE CURB MOUNT RAIL	FT	155.0	155.0
507-005A	ELASTOMERIC BEARINGS PLAIN (1/2" X 12" X 2'-0")	EA	10	10
519-005A	CONCRETED PILES	FT	372	372
520-005A	PREDRILLING FOR PILING IN SOIL	FT	348	348
560-005A	DEWATERING FOUNDATION	LS	1	1
586-005A	UTILITY CONDUIT (CLEAR CREEK ROAD)	L S	1	1
S501-15A	RETAINING WALL	SF	535	535

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	I. BECKER
DESIGN CHECKED	A. RIGEB
DETAILED	A. MITCHELL
DRAWING CHECKED	T. ZANONI

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 29256 BSUM D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

BRIDGE SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 10 OF 27

PROFESSIONAL ENGINEER LICENSED 21316 3/23/2026 STATE OF IDAHO TIMOTHY R. ZANONI

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PERMANENT

STATION	OFFSET			MAINTENANCE CHARACTERISTIC				PERFORMANCE CHARACTERISTICS			TEST LEVEL		DIMENSIONS			LOCATION			CONNECTION			REMARKS
	DISTANCE	RIGHT	LEFT	SACRIFICIAL - SAND	SACRIFICIAL - METAL	PARTIALLY REUSABLE	LOW MAINTENANCE	NON-REDIRECTIVE, GATING	REDIRECTIVE, GATING	REDIRECTIVE, NON-GATING	TL-2 (SPEED LESS THAN 44 MPH)	TL-3 (SPEED GREATER THAN 44 MPH)	WIDTH OF OBSTACLE	MAXIMUM LENGTH	MAXIMUM HEIGHT	SHOULDER	GORE	MEDIAN	W-BEAM GUARDRAIL	CONCRETE BARRIER OR PARAPET	OTHER (INDICATE IN REMARKS)	
	FT.	X	X	X	X	X	X	X	X	X	X	X	IN.	FT.	IN.	X	X	X	X	X	X	
5+24.49	17.00	X			X				X		X			162.5	31	X			X			INCLUDE CHEVRONS
7+54.90	64.33		X		X				X		X			75	31	X			X			INCLUDE CHEVRONS
8+04.83	17.00	X			X				X		X			12.5	31	X			X			INCLUDE CHEVRONS
8+67.36	17.00		X		X				X		X			50	31	X			X			INCLUDE CHEVRONS

TEMPORARY

STATION	OFFSET			MAINTENANCE CHARACTERISTIC					PERFORMANCE CHARACTERISTICS			TEST LEVEL		DIMENSIONS			LOCATION			CONNECTION			REMARKS
	DISTANCE	RIGHT	LEFT	SACRIFICIAL - SAND	SACRIFICIAL - WATER FILLED	SACRIFICIAL - METAL	PARTIALLY REUSABLE	LOW MAINTENANCE	NON-REDIRECTIVE, GATING	REDIRECTIVE, GATING	REDIRECTIVE, NON-GATING	TL-2 (SPEED LESS THAN 44 MPH)	TL-3 (SPEED GREATER THAN 44 MPH)	WIDTH OF OBSTACLE	MAXIMUM LENGTH	MAXIMUM HEIGHT	SHOULDER	GORE	MEDIAN	W-BEAM GUARDRAIL	CONCRETE BARRIER OR PARAPET	OTHER (INDICATE IN REMARKS)	
	FT.	X	X	X	X	X	X	X	X	X	X	X	X	IN.	FT.	IN.	X	X	X	X	X	X	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 29256 CCSM D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

CRASH CUSHION SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY: IDAHO

KEY NUMBER: 29256

SHEET 11 OF 27

PROFESSIONAL ENGINEER LICENSED 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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STATION TO STATION	SANITARY/STORM SEWER PIPE (LENGTH IN FEET)					PLASTIC PIPE						METAL PIPE + COATING IS REQUIRED IF CHECKED					CONCRETE PIPE		MAN-HOLES		CATCH BASINS			INLETS			REMARKS
	PIPE SIZE (INCHES)					POLYPROPYLENE (PP)	CORRUGATED POLYETHYLENE (PE)	RIBBED POLYETHYLENE (PE)	RIBBED POLYVINYL CHLORIDE (PVC)	SOLID WALL POLYVINYL CHLORIDE (PVC)	ABS COMPOSITE	STEEL 1/2" CORR. DEPTH	STEEL 2-2/3" CORR. LENGTH	ALUM. 1/2" CORR. DEPTH	ALUM. 2-2/3" CORR. LENGTH	+ BITUMINOUS OR POLYMER COATING	REINFORCED CLASS	NON-REINFORCED CLASS	TYPE___	TYPE___	TYPE___	TYPE___	TYPE___	TYPE___	TYPE___	TYPE___	
	12					EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	
						X	X	X	X	X	X	THICKNESS (INCHES)				X	II-V	X									
5+54.80, 67.86' LT TO 5+81.19, 94.22' LT	38					X	X	X	X	X	X	0.064	0.064	0.060	0.060		III										
SHEET TOTAL	38																										
PROJECT TOTAL	38																										

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 29256 SDSM D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

STORM DRAIN PIPE SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 12 OF 27

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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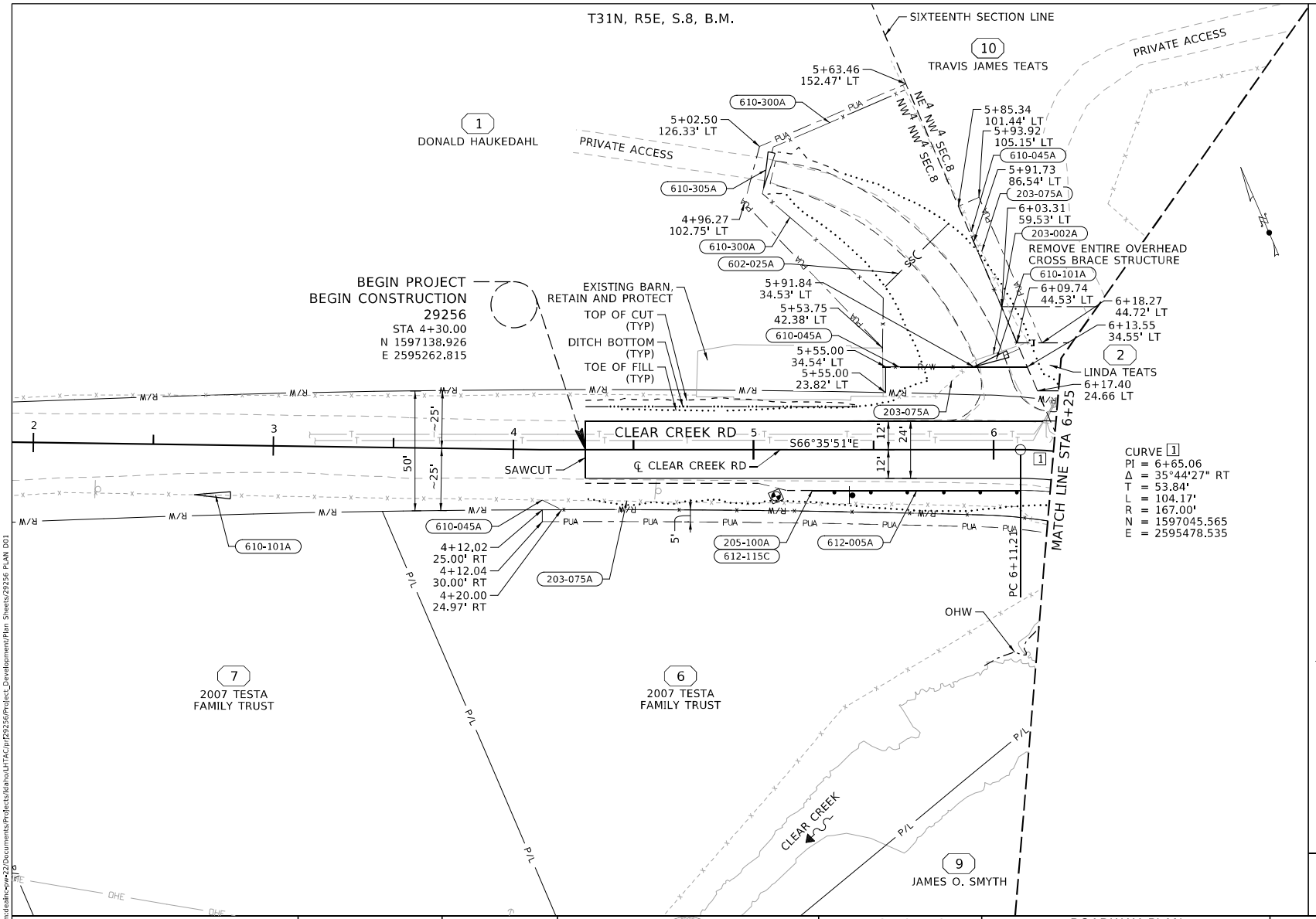

203-002A	REMOVAL OF OBSTRUCTIONS	
1 EA		STA 5+99.92, 39.89' LT
203-075A	REMOVAL OF FENCE	
212 FT		STA 4+12.00, 20.97' RT TO STA 6+25.00, 30.75' RT
44 FT		STA 5+53.95, 22.15' LT TO STA 5+91.84, 37.17' LT
61 FT		STA 6+07.99, 42.60' LT TO STA 5+90.39, 92.73' LT
205-100A	GUARDRAIL TERMINAL GRADING	
1 EA		STA 5+24.49, 17.00' RT
602-025A	12" PIPE CULVERT	
38 FT		STA 5+54.80, 67.86' LT TO STA 5+81.19, 94.22' LT
610-045A	FENCE TYPE 5 B	
212 FT		STA 4+12.00, 20.97' RT TO STA 6+25.00, 29.20' RT
40 FT		STA 5+53.83, 34.54' LT TO STA 5+93.04, 34.99' LT
62 FT		STA 6+04.27, 39.21' LT TO STA 5+90.39, 92.73' LT
610-101A	GATE TYPE 1A	
1 EA		STA 2+75.00, 20.80' RT
1 EA		STA 5+99.92, 39.89' LT
610-300A	TEMPORARY FENCE	
90 FT		STA 5+53.75, 42.38' LT TO STA 5+04.26, 109.13' LT
63 FT		STA 5+07.70, 123.84' LT TO STA 5+63.16, 149.89' LT
610-305A	TEMPORARY GATE	
1 EA		STA 5+06.00, 177.50' LT
612-005A	W-BEAM GUARDRAIL	
99 FT		STA 5+24.49, 17.00' RT TO STA 6+25.00, 16.97' RT
612-115C	GUARDRAIL TERMINAL, TANGENT	
1 EA		STA 5+24.49, 17.00' RT

NOTES:
1. REMOVAL OF OBSTRUCTIONS INCLUDES REMOVAL OF GATES AND OVERHEAD CROSS BRACE STRUCTURE.
2. SEE ROADWAY DETAIL SHEETS FOR GRADING DETAILS.
3. RETAIN AND PROTECT SURVEY MONUMENTS ACCORDING TO ITD 107.19.
4. REMOVAL OF BITUMINOUS SURFACE IS INCIDENTAL TO AND INCLUDED IN BID ITEM 205-005A EXCAVATION
5. SEE APPROACH PLAN AND PROFILE FOR CULVERT ELEVATOINS.
6. RETURN ANY REMOVED STEEL GATES TO HOUSE FOR PARCEL 6.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 29256 PLAN D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

ROADWAY PLAN

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

STA 4+30 TO STA 6+25

ENGLISH

COUNTY: IDAHO

KEY NUMBER: 29256

SHEET 13 OF 27

PROFESSIONAL ENGINEER LICENSED 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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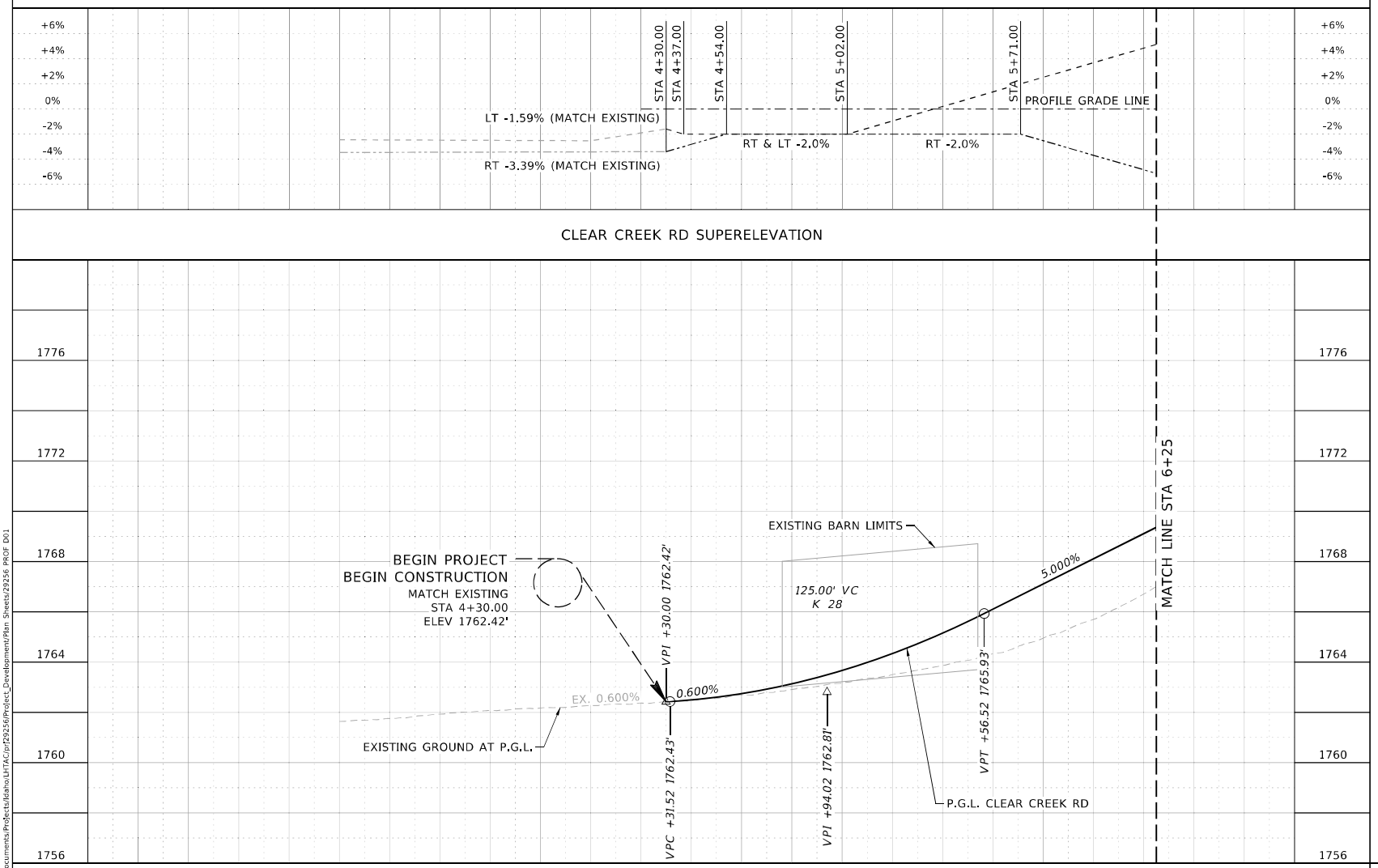

CLEAR CREEK RD SUPERELEVATION

P.G.L. CLEAR CREEK RD

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	ROADWAY PROFILE	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL				KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 PROF D01.dgn		STA 4+30 TO STA 6+25	SHEET 14 OF 27
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026			

DAVID EVANS AND ASSOCIATES INC.

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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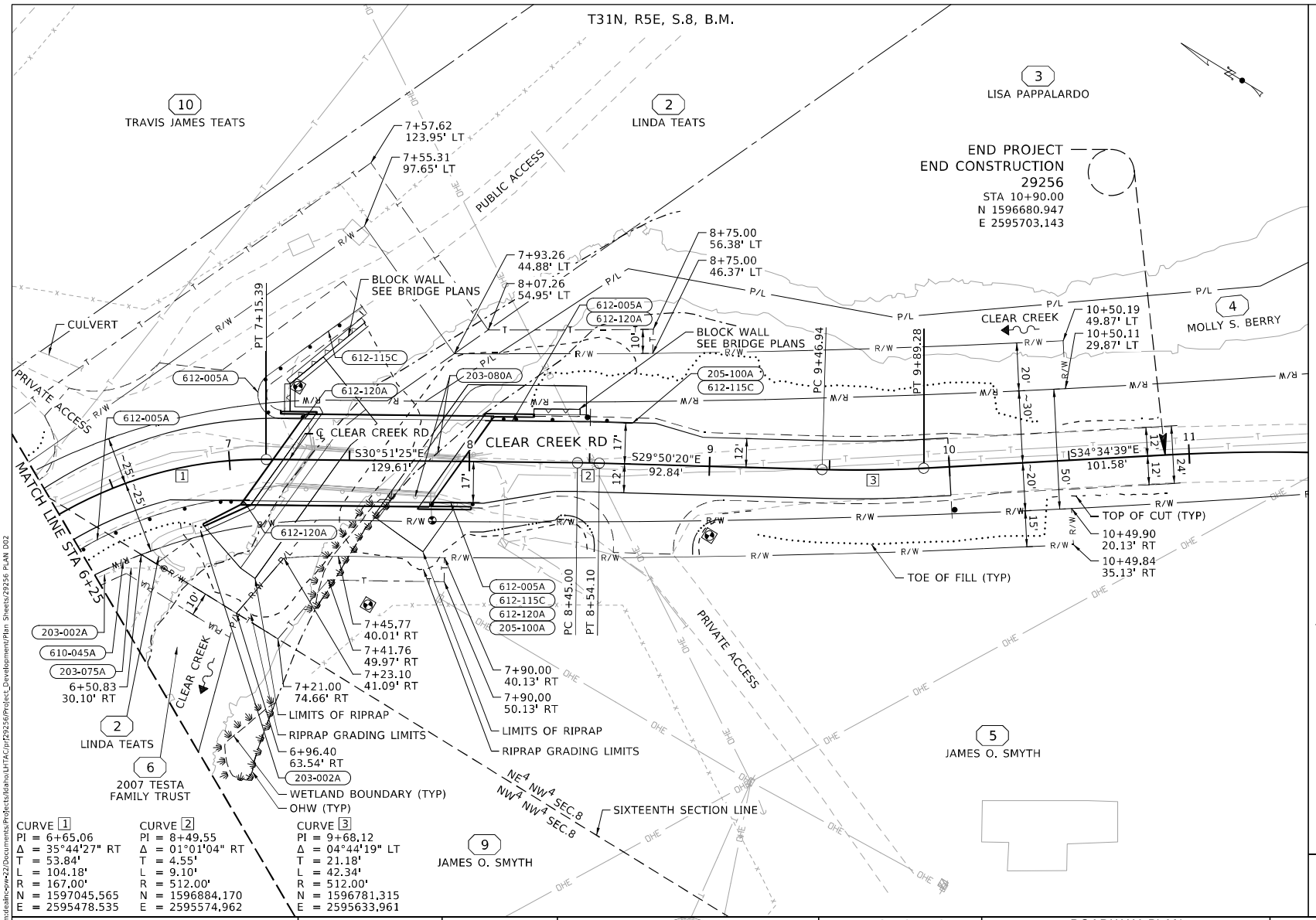

203-002A REMOVAL OF OBSTRUCTIONS
1 EA STA 6+28.39, 31.07' RT
1 EA STA 6+83.71, 23.51' RT

203-075A REMOVAL OF FENCE
30 FT STA 6+25.00, 30.75' RT TO STA 6+59.48, 38.91' RT

203-080A REMOVAL OF GUARDRAIL
80 FT STA 7+09.02, 12.68' RT TO STA 7+87.04, 14.92' RT
80 FT STA 7+31.35, 6.47' LT TO STA 8+09.38, 3.41' LT

205-100A GUARDRAIL TERMINAL GRADING
1 EA STA 8+04.83, 17.00' RT
1 EA STA 8+67.36, 17.00' LT

610-045A FENCE TYPE 5 B
33 FT STA 6+25.00, 29.20' RT TO STA 6+59.48, 38.91' RT

612-005A W-BEAM GUARDRAIL
64 FT STA 6+25.00, 16.97' RT TO STA 7+07.82, 17.00' RT
75 FT STA 7+33.93, 17.00' LT TO STA 7+54.90, 64.33' LT
13 FT STA 7+81.06, 17.00' RT TO STA 8+04.83, 17.00' RT
50 FT STA 8+06.40, 17.00' LT TO STA 8+67.36, 17.00' LT

612-115C GUARDRAIL TERMINAL, TANGENT
1 EA STA 7+54.90, 64.33' LT
1 EA STA 8+04.83, 17.00' RT
1 EA STA 8+67.36, 17.00' LT

612-120A GUARDRAIL TRANSITION, LOW SPEED
1 EA STA 7+07.82, 17.00' RT
1 EA STA 7+33.93, 17.00' LT
1 EA STA 7+81.06, 17.00' RT
1 EA STA 8+06.40, 17.00' LT

NOTES:
1. SEE ROADWAY DETAIL SHEETS FOR GRADING DETAILS.
2. RETAIN AND PROTECT PICNIC TABLE AND PAVERS. MOVE NORTHWEST OUTSIDE OF THE ROADWAY FILL AND WITHIN EXISTING RIGHT OF WAY.
3. RETAIN AND PROTECT SURVEY MONUMENTS ACCORDING TO ITD 107.19.
4. INSTALL SLEEVES FOR GUARDRAIL POST INSTALL TO AVOID GRAB FABRIC.
5. USGS STREAM GAUGE AND SOLAR PANEL TO BE REMOVED AND REPLACED BY OTHERS PER SPECIAL PROVISIONS.
6. REMOVAL OF BITUMINOUS SURFACE IS INCIDENTAL TO AND INCLUDED IN BID ITEM 205-005A EXCAVATION

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER
DESIGN CHECKED A. MCCALL
DETAILED B. CARVER
DRAWING CHECKED A. MCCALL

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CADD FILE NAME 29256 PLAN D02.dgn
DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

ROADWAY PLAN
CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT
STA 6+25 TO STA 10+90

ENGLISH
COUNTY IDAHO
KEY NUMBER 29256
SHEET 15 OF 27

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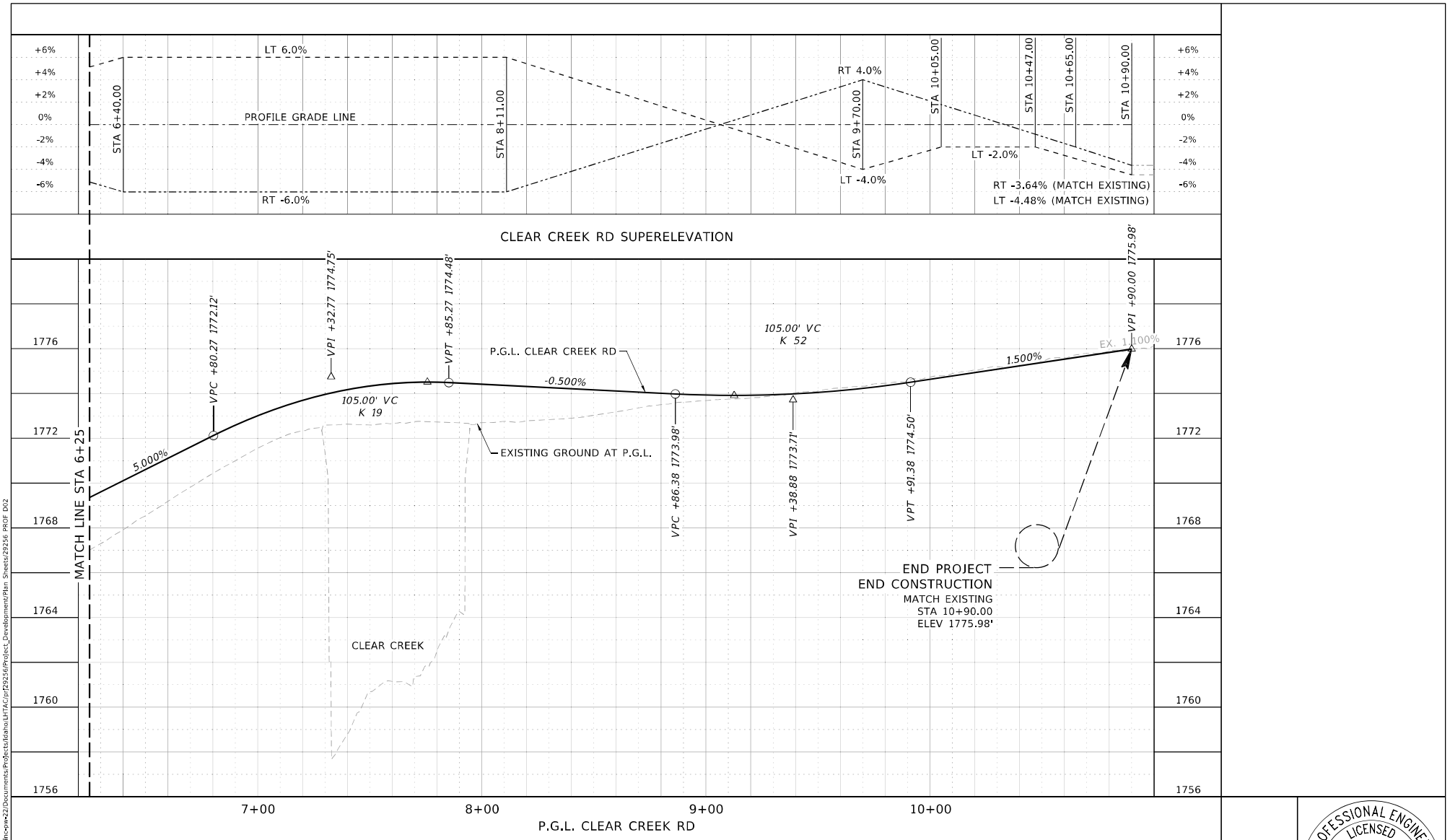

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	ROADWAY PROFILE	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL				KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 PROF D02.dgn		STA 6+25 TO STA 10+90	SHEET 16 OF 27
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026			

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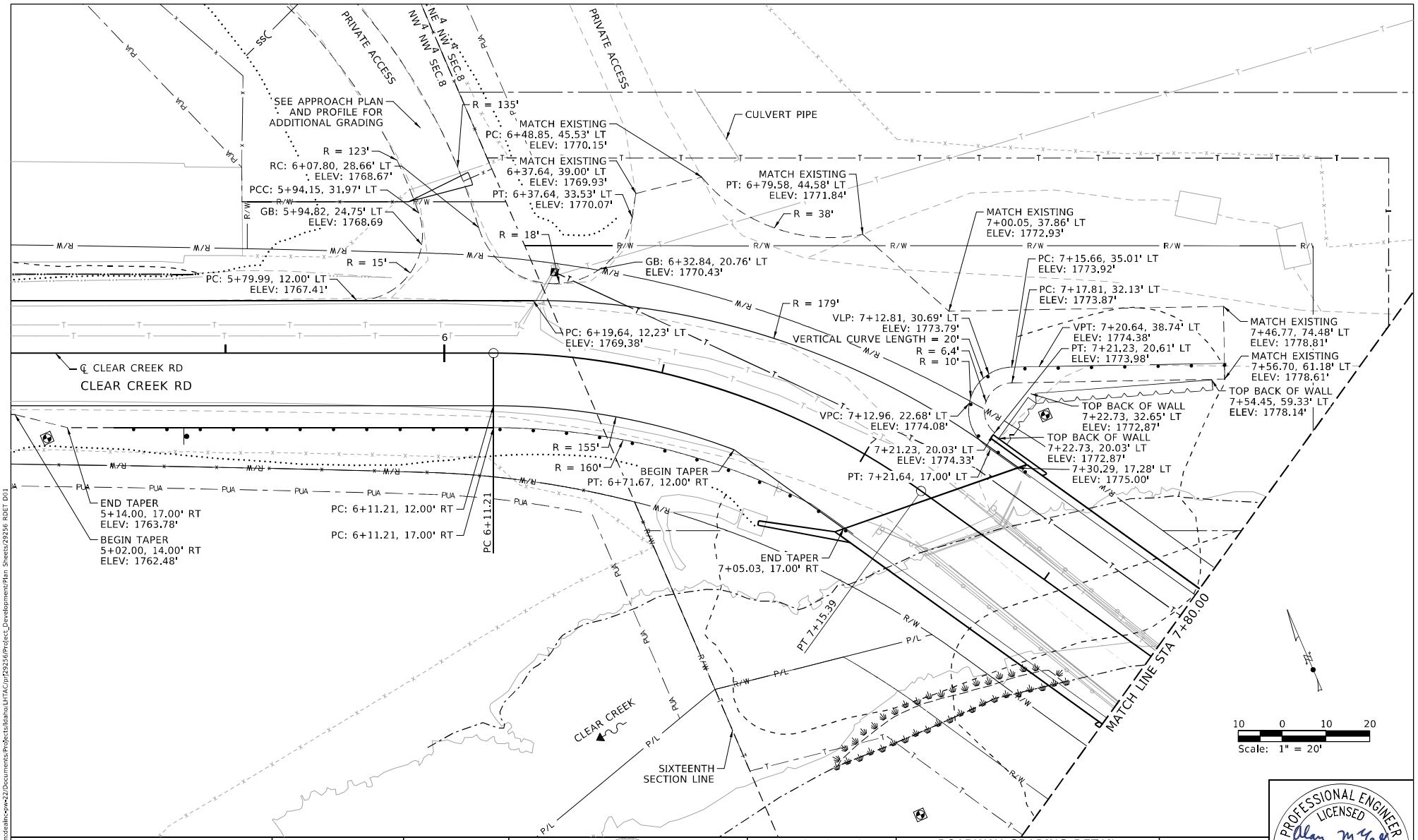

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 29256 RDET D01.dgn

DRAWING DATE: 3/26/2026

GREAT SEAL OF THE STATE OF IDAHO COUNTY OF Mountains Prairie Rivers

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

ROADWAY GRADING DETAIL

CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

ENGLISH

COUNTY: IDAHO

KEY NUMBER: 29256

SHEET 17 OF 27

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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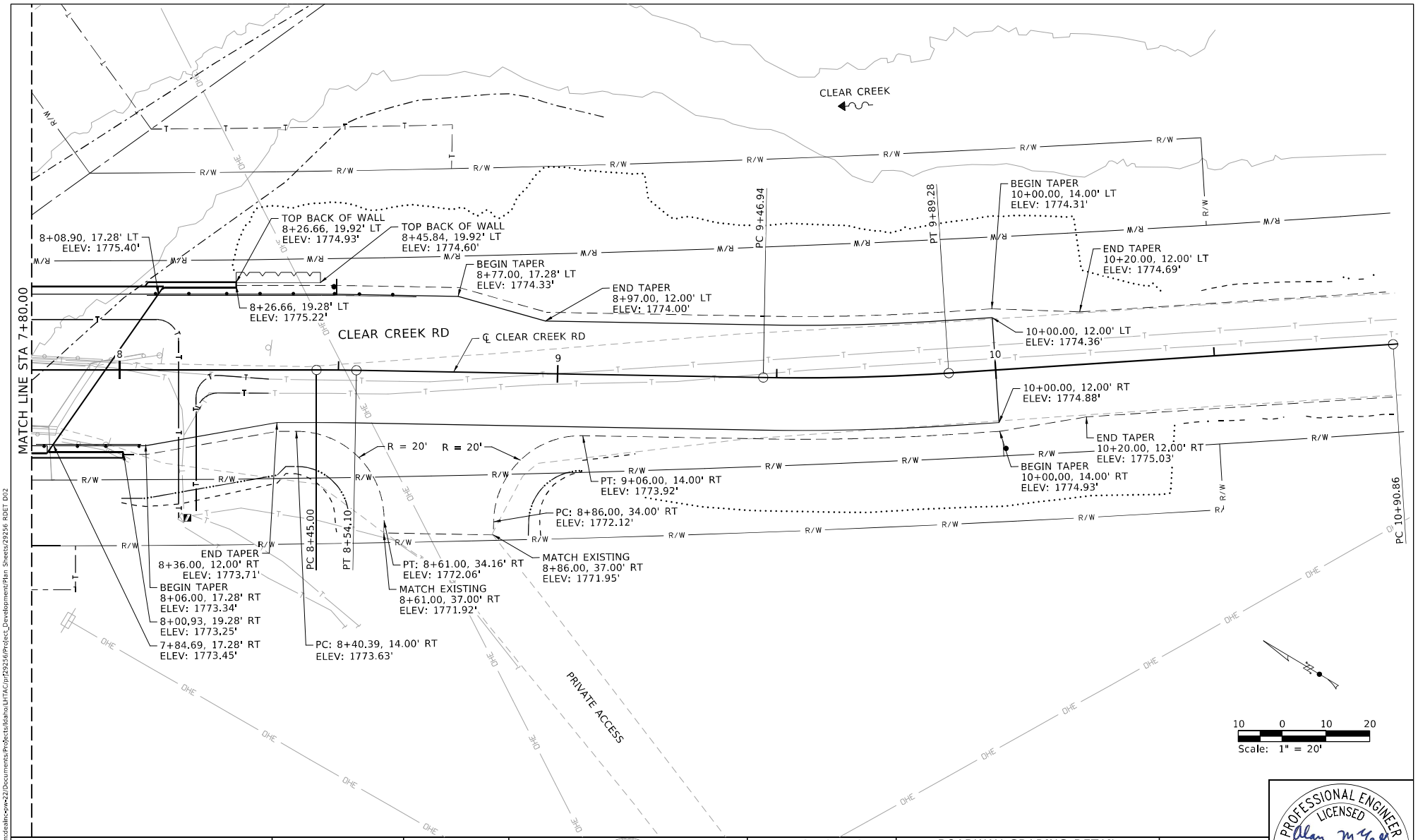

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED A. MCCALL	
DETAILED B. CARVER	CADD FILE NAME 29256 RDET D02.dgn
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

ROADWAY GRADING DETAIL
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

ENGLISH

COUNTY	IDAHO
KEY NUMBER	29256
SHEET	18 OF 27

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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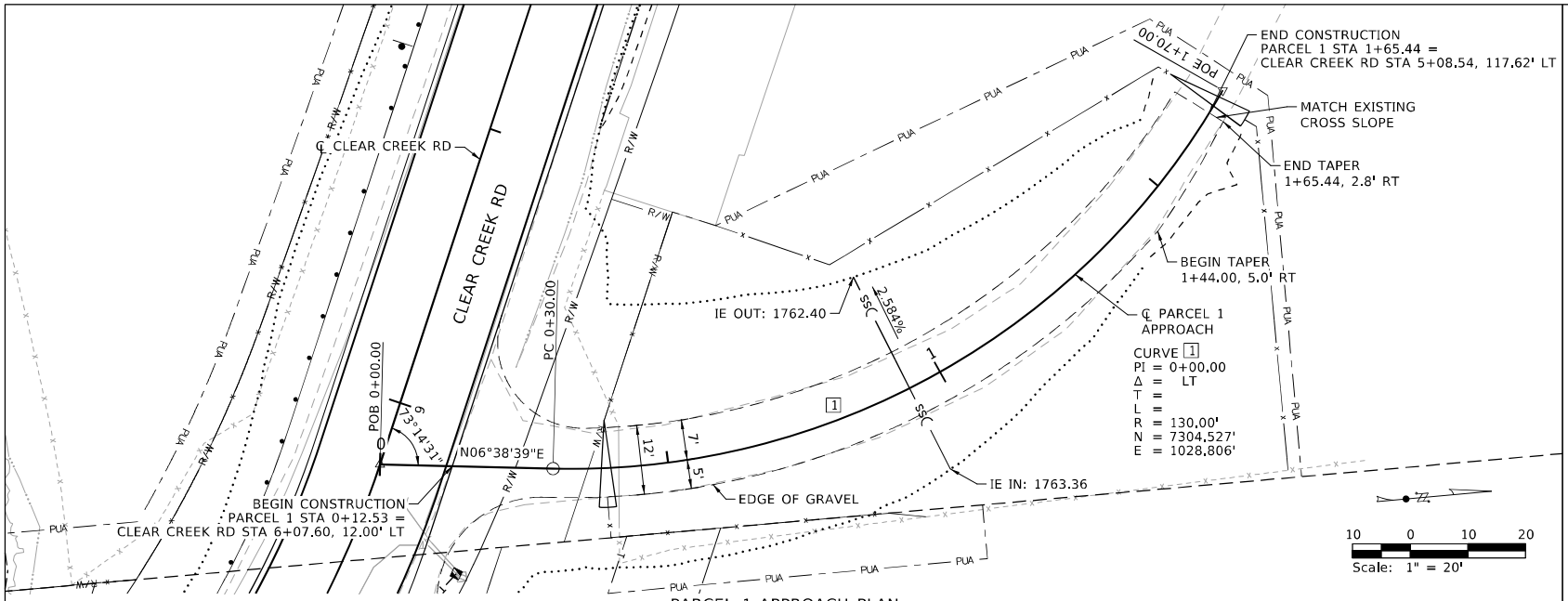
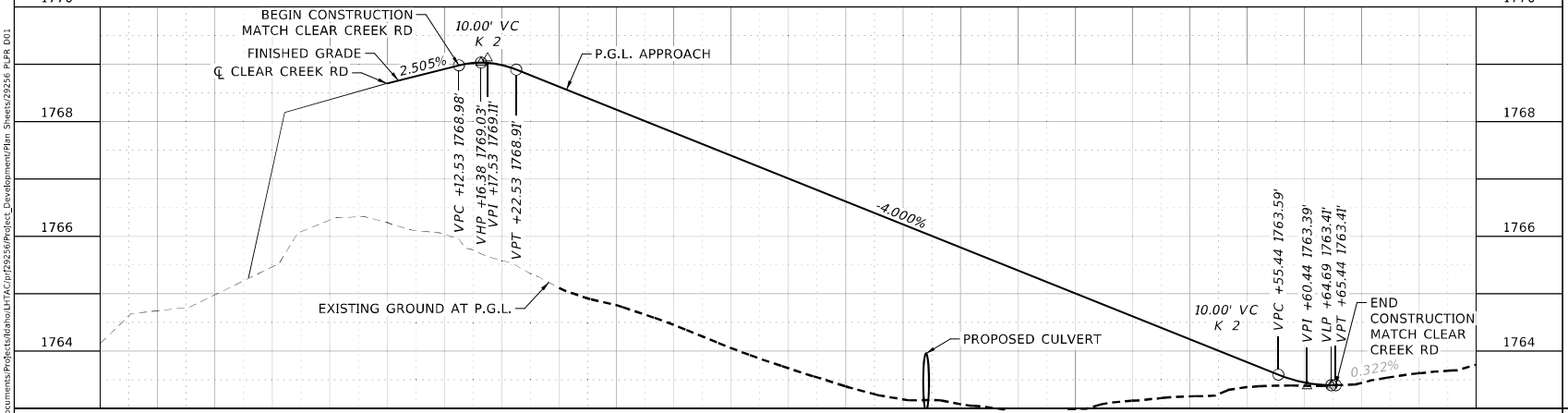


PARCEL 1 APPROACH PLAN



PARCEL 1 APPROACH PROFILE

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	PARCEL 1 APPROACH PLAN AND PROFILE	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL				KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 PLPR D01.dgn			
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026			SHEET 19 OF 27

DAVID EVANS AND ASSOCIATES INC.

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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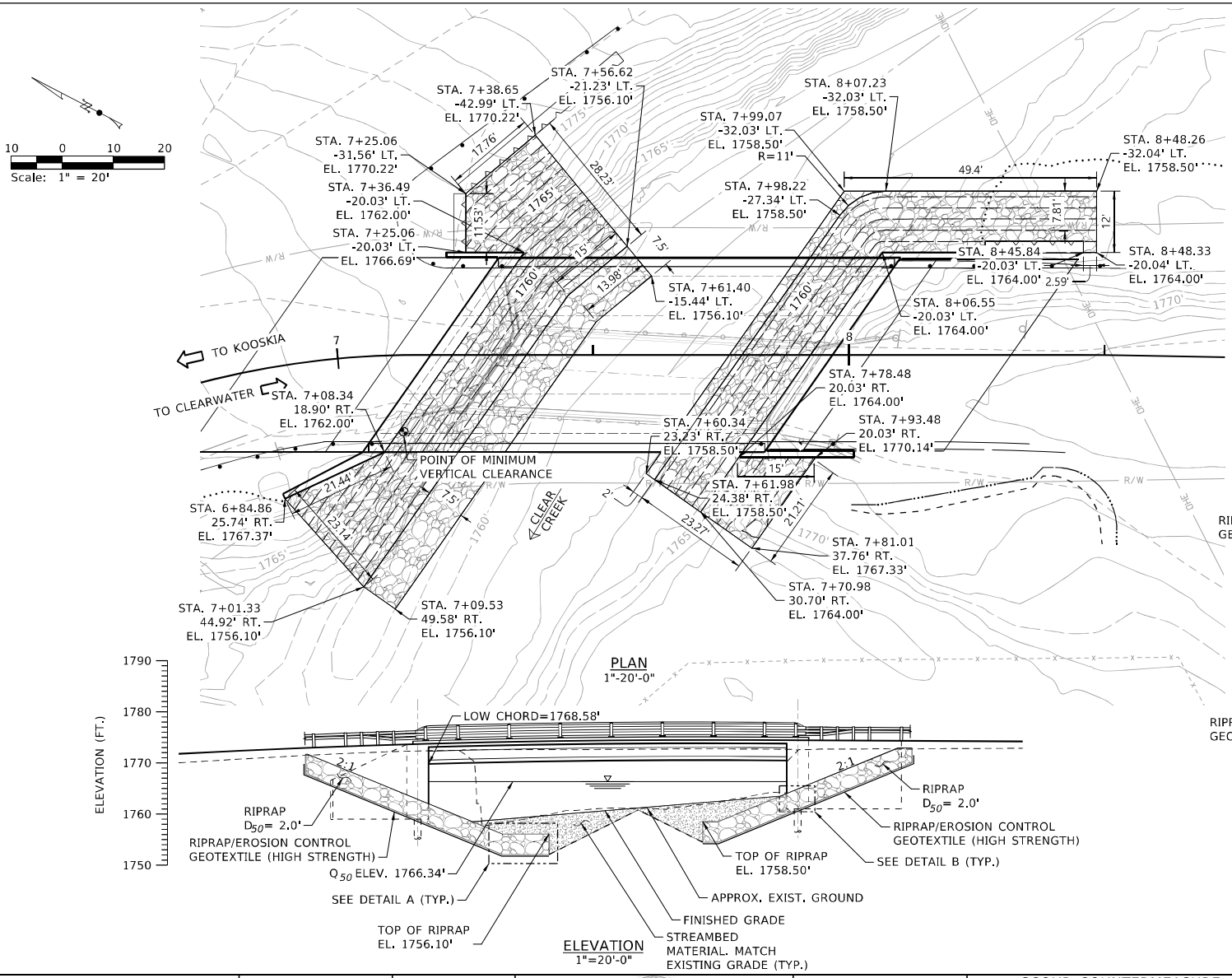

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO.	SCOUR COUNTERMEASURE	ENGLISH
NO.	DATE	BY	DESCRIPTION	P. JONES				CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED S. SAVAGE					KEY NUMBER 29256
				DETAILED P. JONES	CADD FILE NAME 29256 HYDR D01.dgn			CHANNEL RIPRAP DETAIL	SHEET 20 OF 27
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026	DAVID EVANS AND ASSOCIATES INC.			

PROFESSIONAL ENGINEER LICENSED 7061579 3/23/2026 STATE OF IDAHO PARKER JONES

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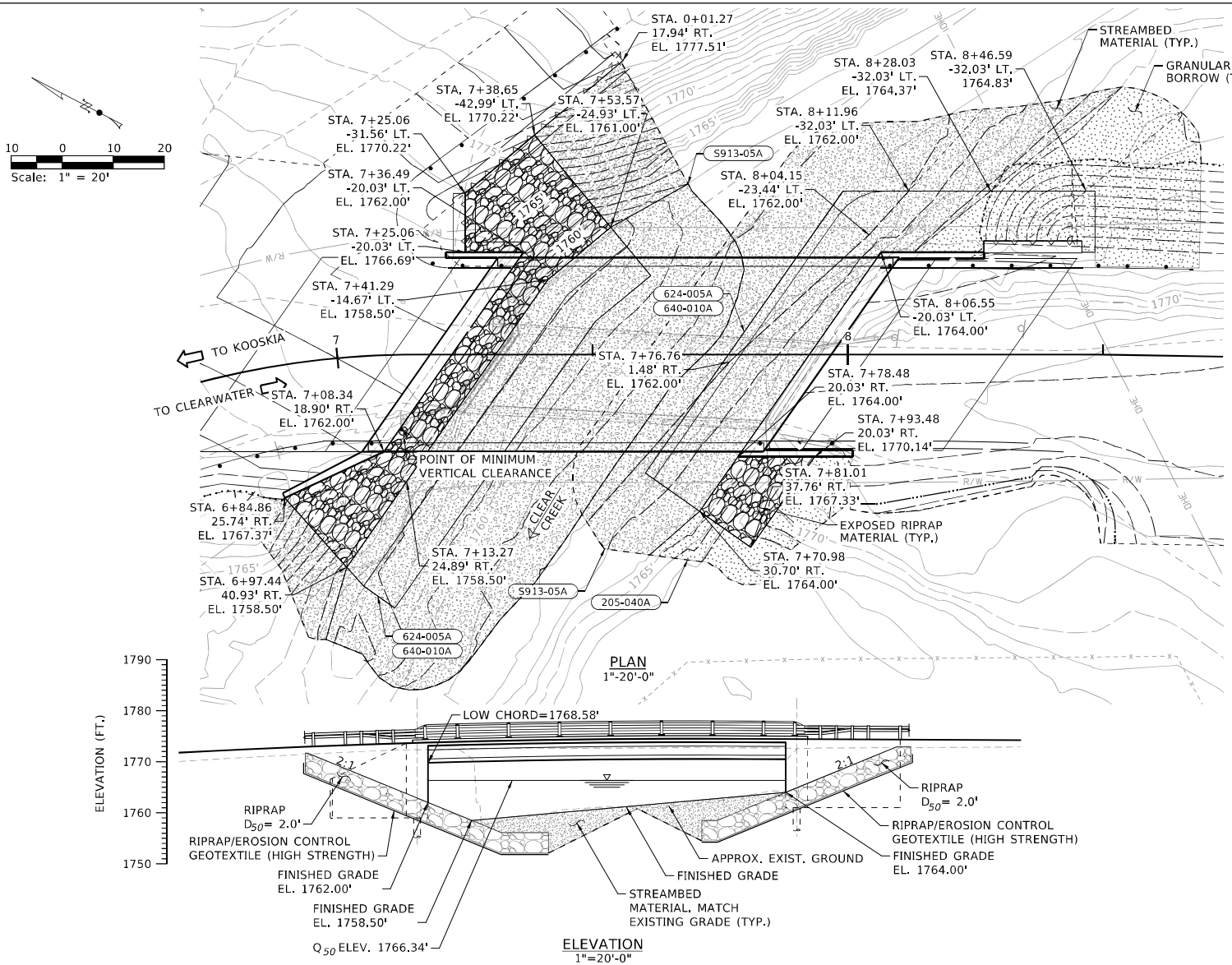

205-040A	**GRANULAR BORROW**	
182 CY	STA 7+61.20, 39.27 RT TO	STA 8+52.82, 52.45 LT
624-005A	**LOOSE RIPRAP (CLASS VII)**	
310 CY	STA 6+84.86, 25.74' RT TO	STA 7+61.40, 15.44' LT
237 CY	STA 7+60.34, 23.23' RT TO	STA 8+48.26, 32.04' LT
640-010A	**RIPRAP/EROSION CONTROL GEOTEXTILE (HIGH STRENGTH)**	
251 SY	STA 6+84.86, 25.74' RT TO	STA 7+61.40, 15.44' LT
196 SY	STA 7+60.34, 23.23' RT TO	STA 8+48.26, 32.04' LT
S913-05A	**SP STREAMBED MATERIAL**	
588 CY	STA 6+89.15, 54.45' RT TO	STA 7+77.12, 23.35' LT
293 CY	STA 7+47.95, 31.31' RT TO	STA 8+52.82, 52.45' LT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED P. JONES	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	
DESIGN CHECKED S. SAVAGE		
DETAILED P. JONES	CADD FILE NAME 29256 HYDR D02.dgn	
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026	

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

SCOUR COUNTERMEASURE
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

CHANNEL PLAN AND SECTION

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 21 OF 27

PROFESSIONAL ENGINEER LICENSED 7061579 3/23/2026 STATE OF IDAHO PARKER JONES

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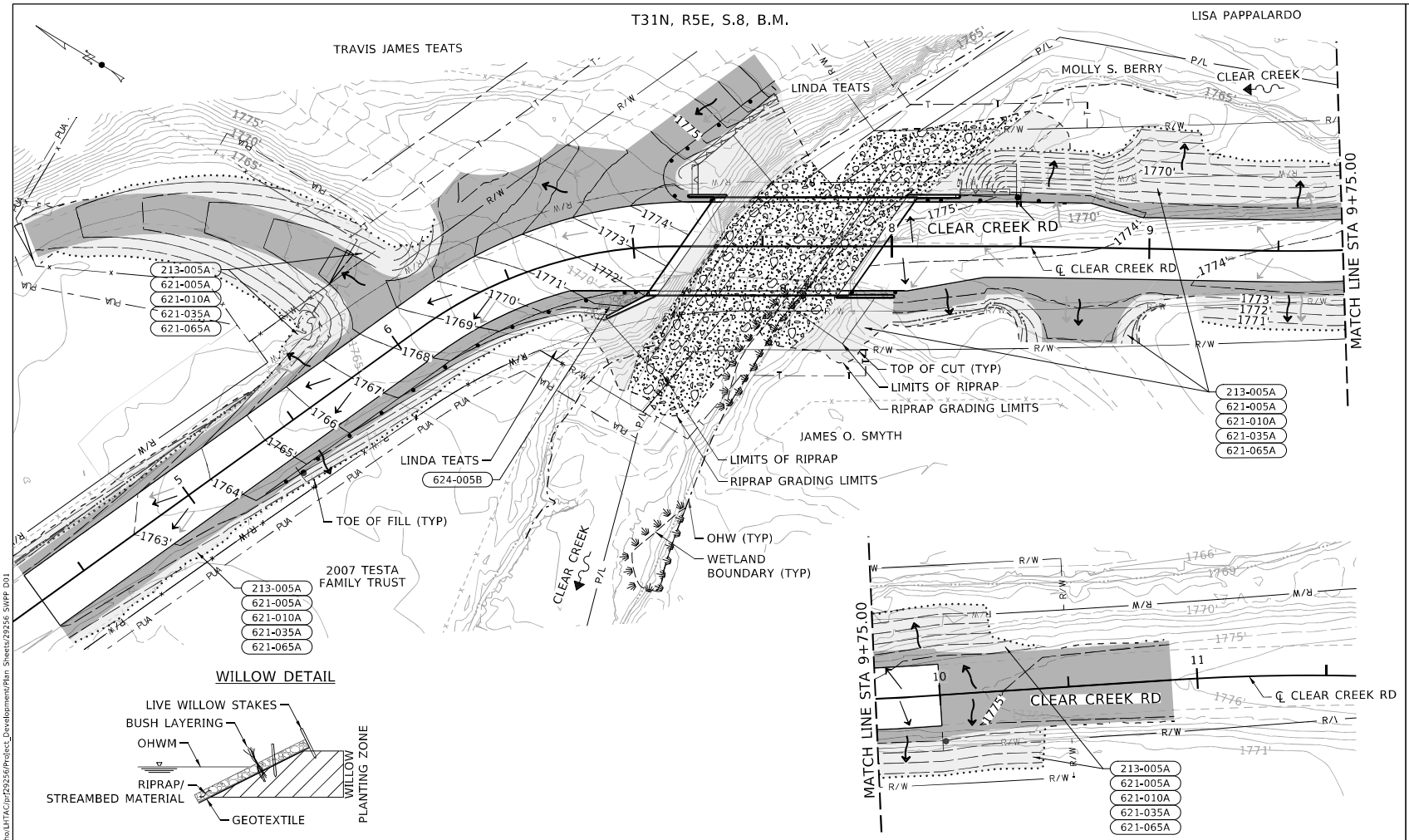

WILLOW DETAIL

213-005A	**TOPSOIL (6")**
57 CY	STA 4+30.00, 20.58' RT TO STA 7+67.12, 32.52' LT
66 CY	STA 4+30.00, 20.55' LT TO STA 6+35.98, 34.53' LT
20 CY	STA 7+61.20, 39.27' RT TO STA 8+59.00, 37.00' RT
75 CY	STA 8+12.94, 20.03' LT TO STA 10+90.00, 15.27' LT
36 CY	STA 8+88.00, 37.00' RT TO STA 10+90.00, 15.92' RT
621-005A	**SEED BED PREPARATION**
0.070 AC	STA 4+30.00, 20.58' RT TO STA 7+67.12, 32.52' LT
0.081 AC	STA 4+30.00, 20.55' LT TO STA 6+35.98, 34.53' LT
0.023 AC	STA 7+61.20, 39.27' RT TO STA 8+59.00, 37.00' RT
0.100 AC	STA 8+12.94, 20.03' LT TO STA 10+90.00, 15.27' LT
0.050 AC	STA 8+88.00, 37.00' RT TO STA 10+90.00, 15.92' RT
621-010A	**SEEDING (PERMANENT)**
0.070 AC	STA 4+30.00, 20.58' RT TO STA 7+67.12, 32.52' LT
0.081 AC	STA 4+30.00, 20.55' LT TO STA 6+35.98, 34.53' LT
0.023 AC	STA 7+61.20, 39.27' RT TO STA 8+59.00, 37.00' RT
0.100 AC	STA 8+12.94, 20.03' LT TO STA 10+90.00, 15.27' LT
0.050 AC	STA 8+88.00, 37.00' RT TO STA 10+90.00, 15.92' RT
621-035A	**FERTILIZING**
0.070 AC	STA 4+30.00, 20.58' RT TO STA 7+67.12, 32.52' LT
0.081 AC	STA 4+30.00, 20.55' LT TO STA 6+35.98, 34.53' LT
0.023 AC	STA 7+61.20, 39.27' RT TO STA 8+59.00, 37.00' RT
0.100 AC	STA 8+12.94, 20.03' LT TO STA 10+90.00, 15.27' LT
0.050 AC	STA 8+88.00, 37.00' RT TO STA 10+90.00, 15.92' RT
621-065A	**HYDRAULICALLY APPLIED EROSION CONTROL PRODUCTS**
0.070 AC	STA 4+30.00, 20.58' RT TO STA 7+67.12, 32.52' LT
0.081 AC	STA 4+30.00, 20.55' LT TO STA 6+35.98, 34.53' LT
0.023 AC	STA 7+61.20, 39.27' RT TO STA 8+59.00, 37.00' RT
0.100 AC	STA 8+12.94, 20.03' LT TO STA 10+90.00, 15.27' LT
0.050 AC	STA 8+88.00, 37.00' RT TO STA 10+90.00, 15.92' RT
624-005B	**LOOSE RIPRAP (CLASS I)**
5 CY	STA 6+70.00, 21.80' RT TO STA 7+05.03, 17.00' RT

NOTES:
1. SOAK CUTTINGS 24 HOURS (MIN) PRIOR TO INSTALLATION.
2. INSTALL BRUSH LAYERING DURING BANK GRADING AND RIPRAP PLACEMENT.
3. BRUSH LAYERS TILT DOWN INTO SLOPE 10 TO 20 DEGREES.
4. BRUSH LAYERS SHOULD PROTRUDE 8 TO 18 INCHES BEYOND THE STONE LAYER.
5. PLACE SOIL FILL AROUND CUTTINGS.
6. PLACE RIPRAP CAREFULLY, DO NOT END DUMP.

NOTES:
1. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
2. NO TOPSOIL, SEED BED PREPARATION, SEEDING, FERTILIZER, OR HYDRAULICALLY APPLIED EROSION CONTROL PRODUCTS ON STREAMBED MATERIAL OR 3/4" AGG TYPE B FOR BASE.
3. RIPRAP DEWATERING WILL BE PAID FOR UNDER S904-05A SP TEMPORARY DIVERSION.
4. COMPLY WITH ALL SPECIAL CONDITIONS TO IDWR'S PERMIT.

LEGEND

- TOPSOIL, SEED BED PREPARATION, SEEDING (PERMANENT), FERTILIZING, HYDRAULICALLY APPLIED EROSION CONTROL PRODUCTS (SEE NOTES FOR EXCEPTIONS)
- NATIVE STREAMBED MATERIAL
- 3/4" AGG TYP B FOR BASE
- RIPRAP CLASS I
- EXISTING PERVIOUS FLOW ARROW
- EXISTING IMPERVIOUS FLOW ARROW
- PROPOSED PERVIOUS FLOW ARROW
- PROPOSED IMPERVIOUS FLOW ARROW

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	POLLUTION PREVENTION PLAN	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL				KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 SWPP D01.dgn			SHEET 22 OF 27
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026			

DAVID EVANS AND ASSOCIATES INC.

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

March 23, 2026 3:51:18 PM
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SIGN ASSEMBLY	STATION, OFFSET (XXX+XX.XX, RT/LT, SHLD. OR MEDIAN IF ON DIVIDED HWY)	RAMP NUMBER OR LOCAL STREET	FOUNDATION SIZE ((INxIN OR INxINxIN)	POST TYPE (A-X, B-X, D-X, E-X)	OFFSET FROM SHLD. OR FACE OF CURB TO POST 1 CENTER (FT)	DISTANCE BETWEEN POSTS (IF USING 2 OR 3 POSTS, FT)	POST 1 LENGTH * (FT)	POST 2 LENGTH * (IF USING 2 OR 3 POSTS, FT)	POST 3 LENGTH * (IF USING 3 POSTS, FT)	DISTANCE FROM SHOULDER OR TOP OF CURB TO SIGN BOTTOM (FT)	SIGN TYPE (B-X, C-X, E)	SIGN DESIGNATION	SIGN SIZE † (IN x IN)			SIGN AREA (SF)	SIGN BACKGROUND † COLOR	MAIN SIGN LEGEND † COLOR	SIGN BRACE WEIGHT (LBS)	SIGN BRACKET WEIGHT (LBS)	BRACKET NUMBER	NOTES (SIGN LEGEND, SIGN DESCRIPTION, ETC.)
1-1	5+40 RT			D-2	8.0		12			7	B-1	W1-2R	30	x	30	6.3	YELLOW	BLACK				RIGHT CURVE
											B-1	W13-1P	18	x	18	2.3	YELLOW	BLACK				25 MPH
1-2	8+50 LT			D-2	8.0		11			7	B-1	W1-2L	30	x	30	6.3	YELLOW	BLACK				LEFT CURVE
											B-1	W13-1P	18	x	18	2.3	YELLOW	BLACK				25 MPH
1-3	10+00 RT			D-2	7.0		11			7	B-1	W8-3	30	x	30	6.3	YELLOW	BLACK				PAVEMENT ENDS

* POST LENGTHS ARE APPROXIMATE. FINALIZE POST LENGTHS IN THE FIELD BEFORE ASSEMBLY.
† FABRICATE SIGNS IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS AND MARKINGS (SHSM) BOOK, FHWA SHSM SUPPLEMENT, ITD SHSM SUPPLEMENT, OR AS SPECIFIED.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 29256 SSUM D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

SIGN SUMMARY

CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 23 OF 27

PROFESSIONAL ENGINEER LICENSED 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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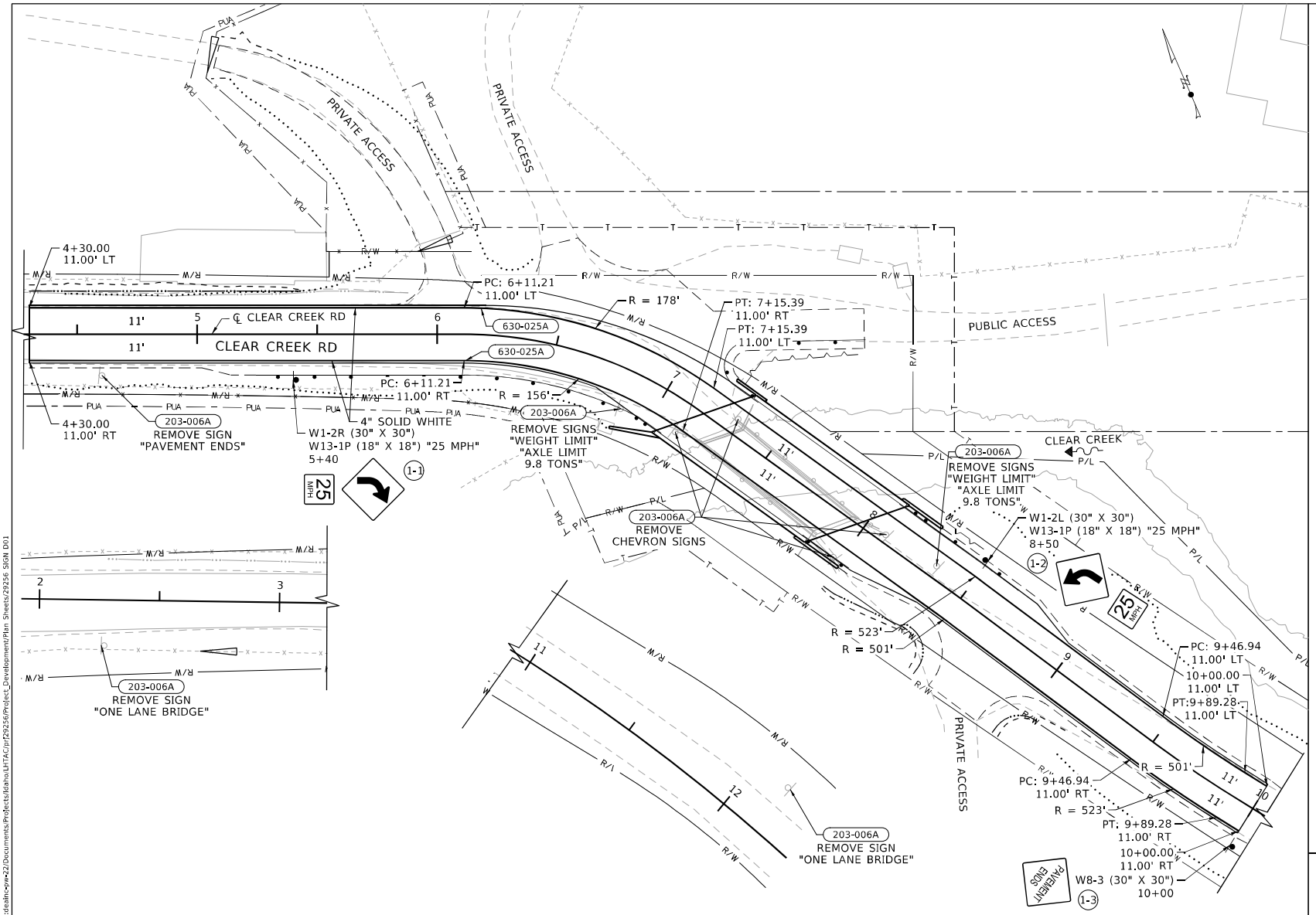

203-006A	REMOVAL OF SIGN
1 EA	STA 2+25.99, 19.05' RT
1 EA	STA 4+59.17, 17.08' RT
2 EA	STA 6+84.52, 16.27' RT
1 EA	STA 7+11.54, 13.12' RT
1 EA	STA 7+29.97, 6.56' LT
1 EA	STA 7+98.05, 17.45' RT
1 EA	STA 8+10.39, 3.13' LT
2 EA	STA 8+35.20, 4.99' LT
1 EA	STA 12+17.07, 22.39' LT

630-025A	LONGITUDINAL PAVEMENT MARKING - WATERBORNE WHITE
1128 FT	STA 4+30.00, 11.00' RT TO STA 10+00.00, 11.00' RT
1154 FT	STA 4+30.00, 11.00' LT TO STA 10+00.00, 11.00' LT

NOTES:
1. WATERBORNE PAVEMENT MARKING QUANTITIES SHOWN WERE DOUBLED TO ACCOUNT FOR TWO PAINT APPLICATIONS PER SECTION 630.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 29256 SIGN D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

SIGNING AND PAVEMENT MARKING PLAN
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

ENGLISH

COUNTY: IDAHO

KEY NUMBER: 29256

SHEET 24 OF 27

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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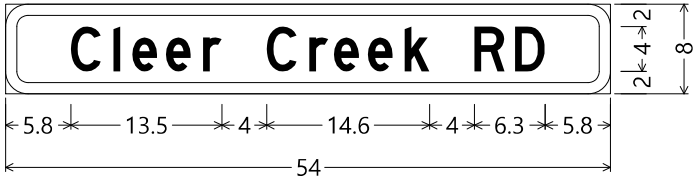

2.0" Radius, 1.0" Border, Black on White;
"Cleer Creek RD", D;

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		PROJECT NO.	SIGN DETAIL	ENGLISH
NO.	DATE	BY	DESCRIPTION	B. CARVER				CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED A. MCCALL					KEY NUMBER 29256
				DETAILED B. CARVER	CADD FILE NAME 29256 SDET D01.dgn				SHEET 25 OF 27
				DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026	DAVID EVANS AND ASSOCIATES INC.			

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2' TO TEMPORARY BARRIER ON THE INSIDE AND OUTSIDE SHOULDER DURING ALL STAGES OF CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE ANY UNUSED TEMPORARY TRAFFIC CONTROL DEVICES FROM THE EDGE OF TRAVELED WAY AND PUT OUTSIDE OF THE CLEAR ZONE OR BEHIND GUARDRAIL.
3. BLUNT ENDS WILL HAVE TEMPORARY CRASH CUSHIONS MEETING AASHTO MASH (TL-3) STANDARDS INSTALLED BEFORE TRAFFIC IS ALLOWED TO PROCEED IN THE ADJACENT LANE.
4. TEMPORARY CRASH CUSHION ELEMENTS TO BE WATER FILLED AND NOT SAND FILLED. CHEMICAL ADDITIVES MUST BE USED TO PREVENT FREEZING IN COLD SEASONS.
5. PLACE TEMPORARY CONCRETE BARRIER AT A MINIMUM OF 30 DEGREES TO THE ONCOMING LANE.
6. FABRICATE AND INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO CONFORM TO ALL APPLICABLE PROVISIONS OF THE FHWA'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY THE STATE.
7. THE ENGINEER WILL VERIFY, DIRECT, OR APPROVE ANY CHANGES TO MOUNTING CONFIGURATION, NUMBER OF SIGNS, AND MINOR ADJUSTMENTS NEEDED FOR TRAFFIC CONTROL DEVICES. FOR THE DURATION OF THIS PROJECT, MONITOR THE OVERALL EFFECTIVENESS UNDER BOTH NIGHT AND DAYTIME CONDITIONS AND THE PLACEMENT OF THESE INSTALLATIONS. ADJUST AND CLEAN THE TRAFFIC CONTROL DEVICES TO PROVIDE THE OPTIMUM PERFORMANCE OF THESE DEVICES. PAYMENT FOR THIS ACTIVITY IS MADE UNDER BID ITEM 626-105A TEMPORARY TRAFFIC CONTROL MAINTENANCE.
8. THE CONTRACTOR SHALL VERIFY THAT ALL TEMPORARY TRAFFIC CONTROL SIGNS CONFORM TO STANDARD SPECIFICATION 712.02. MOUNT ALL SIGNS IN A HIGH PROFILE MANNER WITH 2 STANDARD FLAGS AND TYPE B FLASHING WARNING LIGHTS. PLACE ALL SIGNS REMAINING UP FOR MORE THAN 3 CALENDAR DAYS ON GROUND-MOUNTED WOOD POSTS.
9. THE CONTRACTOR SHALL COVER UP OR REMOVE ALL EXISTING SIGNING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL. IF ANY OF THE SIGNS ARE REMOVED BY THE CONTRACTOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET THE SIGNS AND/OR REPLACE ANY SIGNS THAT ARE DAMAGED AT THEIR OWN EXPENSE OR AS DIRECTED BY THE ENGINEER.
10. ALL PORTABLE SIGN STANDS, SIGN POSTS, RADIOS, FLAGS, AND FLASHERS ARE PAID UNDER BID ITEM 626-100A MISCELLANEOUS TEMPORARY TRAFFIC CONTROL ITEMS.
11. INITIAL SIGN INSTALLATION AND TAKE-DOWN ARE INCIDENTAL TO BID ITEM 626-010A TEMPORARY TRAFFIC CONTROL SIGNS.
12. PLACE ALL SIGNS AT 100' INTERVALS UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL INSURE THE TOP LIFT JOINT IS CENTERED ON THE ALIGNMENT CENTERLINE AND NOT ALONG THE PHASED SAWCUT.

ESTIMATED TTC CONSTRUCTION QUANTITIES

PAY ITEM	DESCRIPTION	QTY	UNIT
626-010A	TEMPORARY TRAFFIC CONTROL SIGNS	280	SF
626-040A	BARRICADE TYPE 3	8	EA
626-100A	MISC TEMPORARY TRAFFIC CONTROL ITEMS	3000	CA
626-105A	TEMPORARY TRAFFIC CONTROL MAINTENANCE	224	HR

ESTIMATED DETOUR SIGNING QUANTITIES

SIGN	CLASS	LEGEND	SIZE	QTY	SQ FT	TOTAL SQ FT
M4-9	B	DETOUR ARROW	30" X 24"	11	5.00	55.0
R11-2	B	ROAD CLOSED	48" X 30"	2	10.0	20.0
R11-3b	B	BRIDGE OUT * MILES AHEAD	60" X 30"	8	12.5	100.0
R11-4	B	ROAD CLOSED TO THRU TRAFFIC	60" X 30"	2	12.5	25.0
W16-8P	B	CLEAR CREEK RD	54" X 8"	11	3.00	33.0
		20% CONTINGENCY = 47		TOTAL		280

PROFESSIONAL ENGINEER LICENSED Alan McCall 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED A. MCCALL	
DETAILED B. CARVER	CADD FILE NAME 29256 TRAF D01.dgn
DRAWING CHECKED A. MCCALL	DRAWING DATE: 3/26/2026

GREAT SEAL OF THE STATE OF IDAHO COUNTY

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.	TEMPORARY TRAFFIC CONTROL PLAN CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	ENGLISH
		COUNTY IDAHO
		KEY NUMBER 29256
		SHEET 26 OF 27

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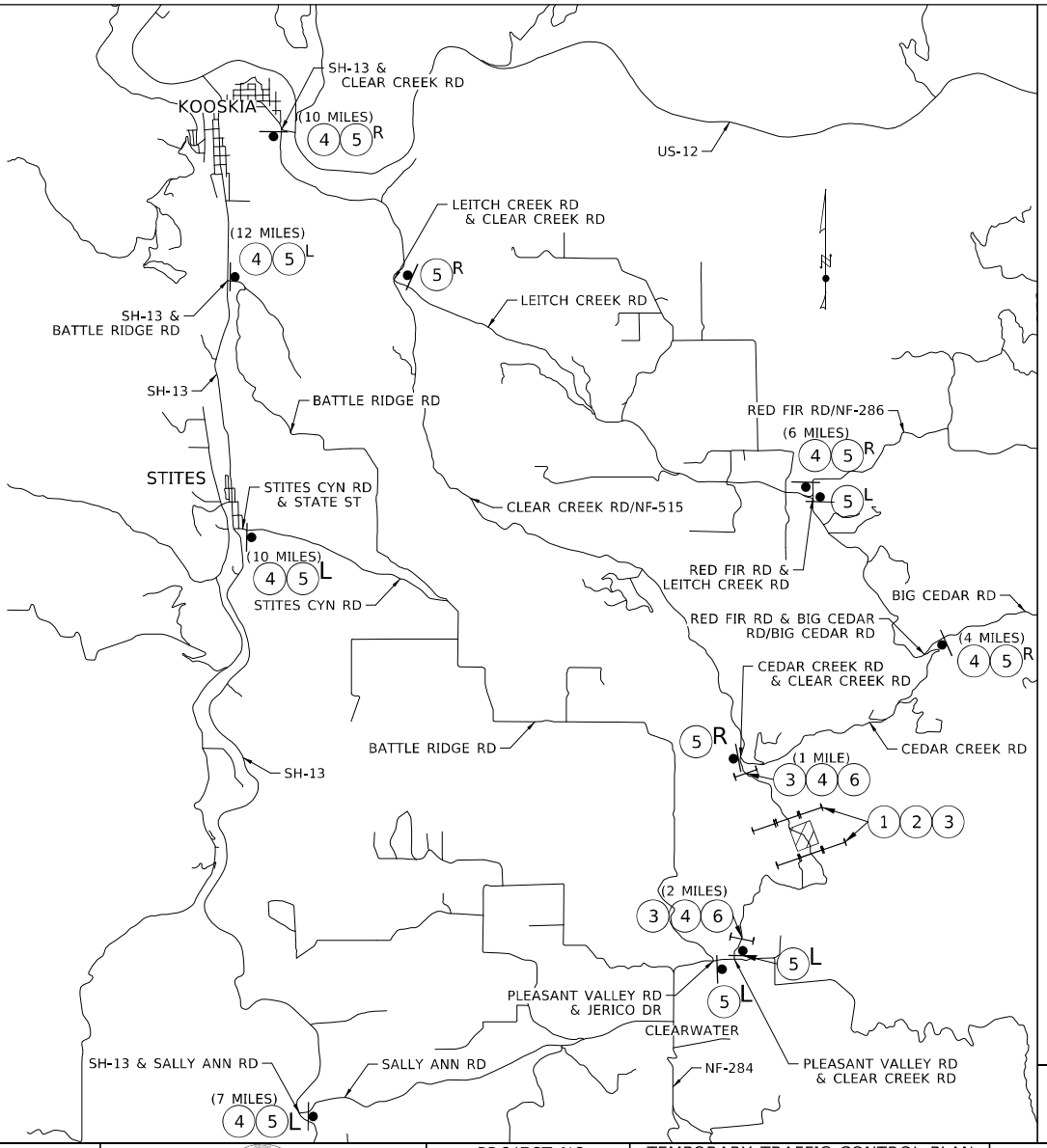
1. R11-2(48"x30") MOUNT TO TYPE 3 BARRICADE (CENTER)
2. TYPE 3 BARRICADE (RIGHT)
3. TYPE 3 BARRICADE (LEFT)
4. R11-3b(60"x30")
5. W16-8P(54"x8") M4-9(30"x24")
6. R11-4(60"x30")



LEGEND

- ROAD CLOSURE
- SINGLE POST SIGN
- TYPE 3 BARRICADE

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	B. CARVER
DESIGN CHECKED	A. MCCALL
DETAILED	B. CARVER
DRAWING CHECKED	A. MCCALL

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME 29256 TRCP D01.dgn

DRAWING DATE: 3/26/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

TEMPORARY TRAFFIC CONTROL PLAN
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

DETOUR PLAN

ENGLISH

COUNTY IDAHO

KEY NUMBER 29256

SHEET 27 OF 27

PROFESSIONAL ENGINEER LICENSED
21208
3/23/2026
STATE OF IDAHO
ALAN MCCALL

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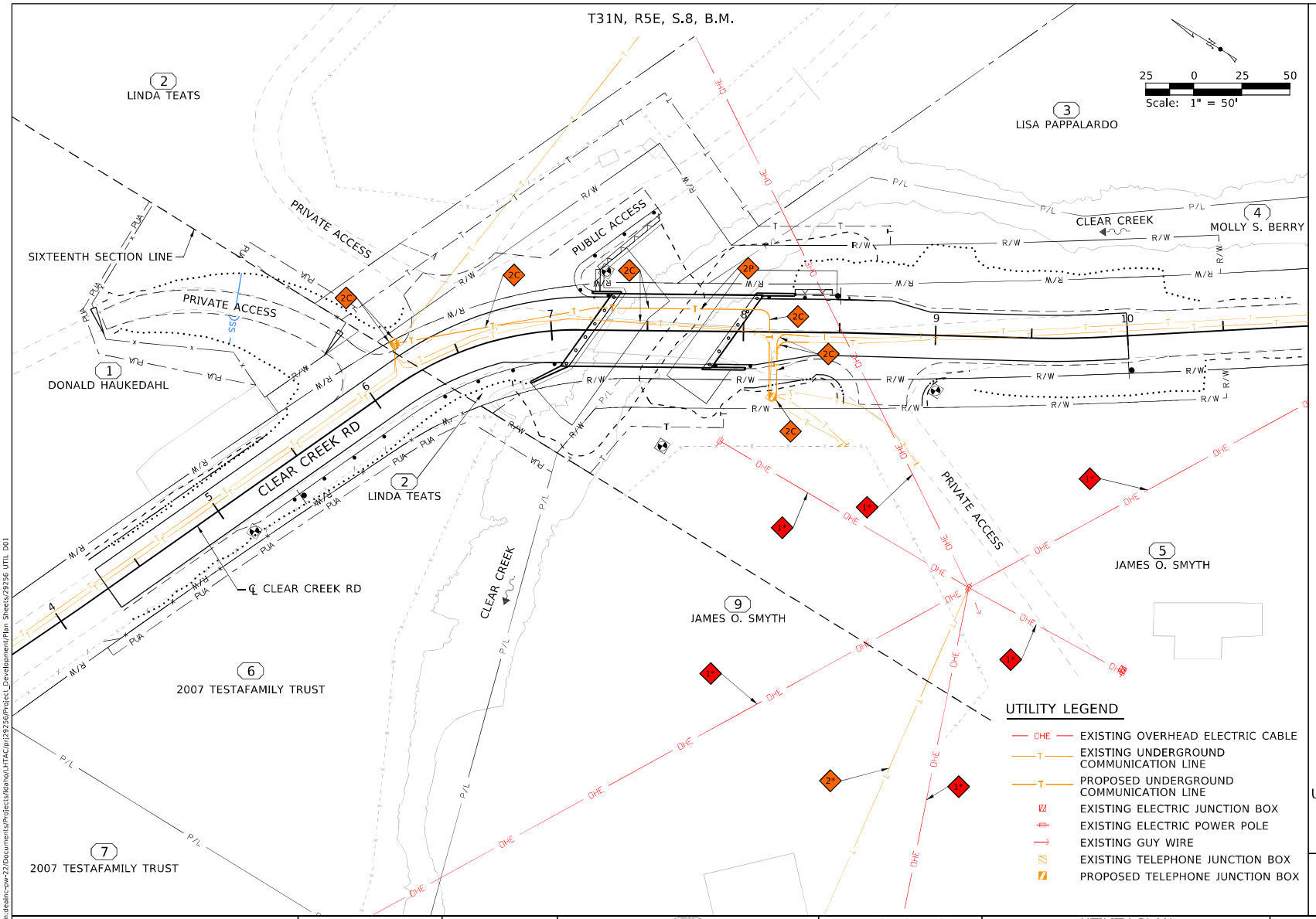

1 IDAHO COUNTY LIGHT & POWER

2 LUMEN (CENTURY LINK) COMMUNICATION/FIBER LINE/POLE

NOTES

1. ALL LUMEN UTILITIES SHOULD BE CONSIDERED UNLOCATED AND LOCATES SHOULD BE CALLED PRIOR TO EXCAVATION.
2. LUMEN IS REQUIRED TO COORDINATE A TEMPORARY ALIGNMENT AND REMOVE EXISTING WIRES AND CONDUIT OUTSIDE OF THE EXISTING BRIDGE. CONTRACTOR FOR THIS PROJECT IS ONLY INSTALLING THE CONDUIT UNDER THE BRIDGE AND THROUGH THE ABUTMENTS. LUMEN IS REQUIRED TO COMPLETE ALL WORK OUTSIDE THE PROPOSED ABUTMENTS.

UTILITY LEGEND

- OHE — EXISTING OVERHEAD ELECTRIC CABLE
- T — EXISTING UNDERGROUND COMMUNICATION LINE
- T — PROPOSED UNDERGROUND COMMUNICATION LINE
- EXISTING ELECTRIC JUNCTION BOX
- EXISTING ELECTRIC POWER POLE
- EXISTING GUY WIRE
- EXISTING TELEPHONE JUNCTION BOX
- PROPOSED TELEPHONE JUNCTION BOX

KEY

UTILITY COMPANY
RESPONSIBLE PARTY
P = REMOVE / RELOCATE AT PROJECT EXPENSE
C = REMOVE / RELOCATE AT COMPANY EXPENSE
* = RETAIN & PROTECT

EXISTING OHE
RELOCATED FROM EXISTING TO PROPOSED LOCATION
OHE PROPOSED

UTILITY COMPANIES

1 = IDAHO COUNTY LIGHT & POWER
2 = LUMEN (CENTURYLINK)

REVISIONS						
NO.	DATE	BY	DESCRIPTION	DESIGNED B. CARVER	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.
				DESIGN CHECKED A. MCCALL	CADD FILE NAME 29256 UTIL D01.dgn	UTILITY PLAN: CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT
				DETAILED B. CARVER	DRAWING DATE: 3/26/2026	ENGLISH
				DRAWING CHECKED A. MCCALL	DAVID EVANS AND ASSOCIATES INC.	COUNTY IDAHO; KEY NUMBER 29256; SHEET 1 OF 1

PROFESSIONAL ENGINEER LICENSED 21208 3/23/2026 STATE OF IDAHO ALAN MCCALL

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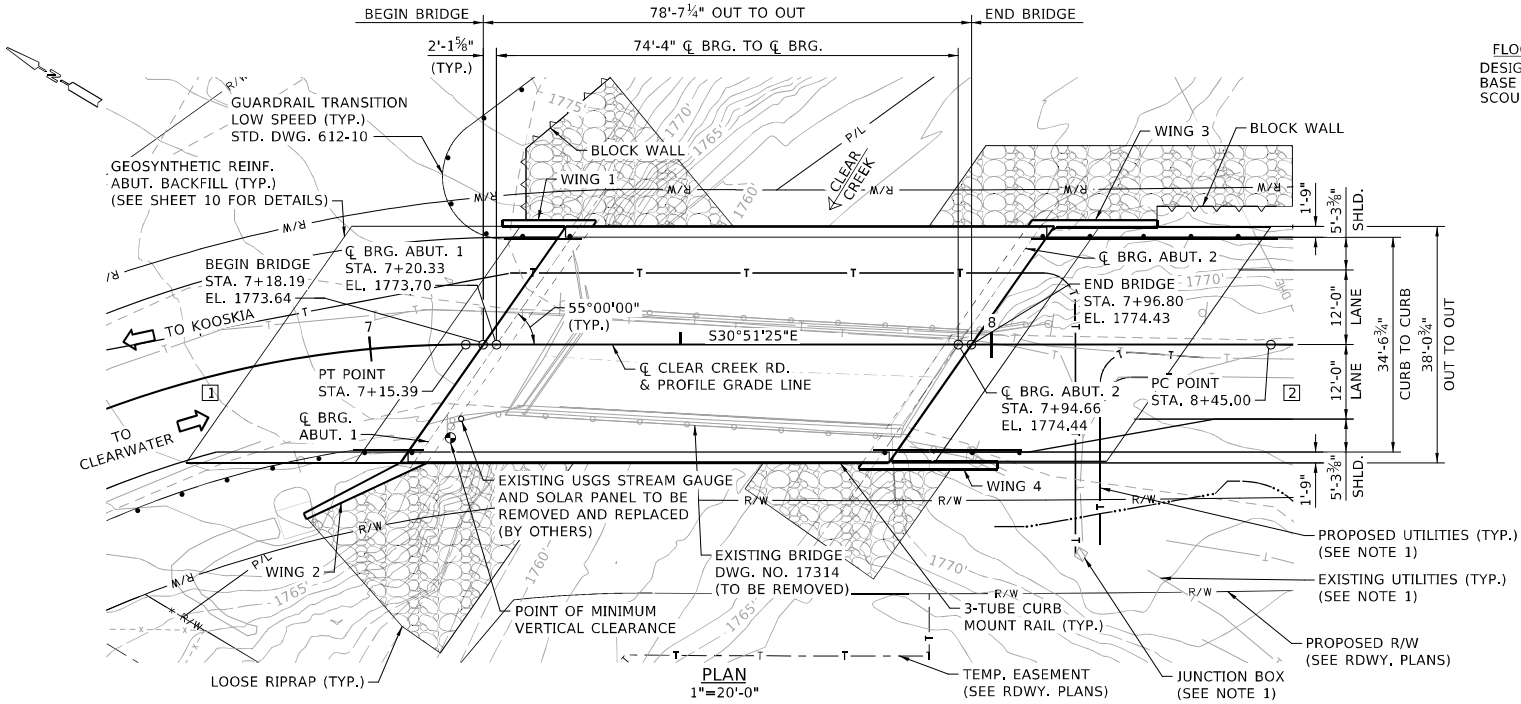


PLAN
1"=20'-0"

HYDRAULIC DATA

FLOOD	DISCHARGE	H.W. ELEVATION	VELOCITY
DESIGN (Q_{50})	1,200 cfs	1766.34'	6.95 fps
BASE (Q_{100})	1,340 cfs	1766.64'	7.18 fps
SCOUR (Q_{500})	1,660 cfs	1767.30'	7.61 fps

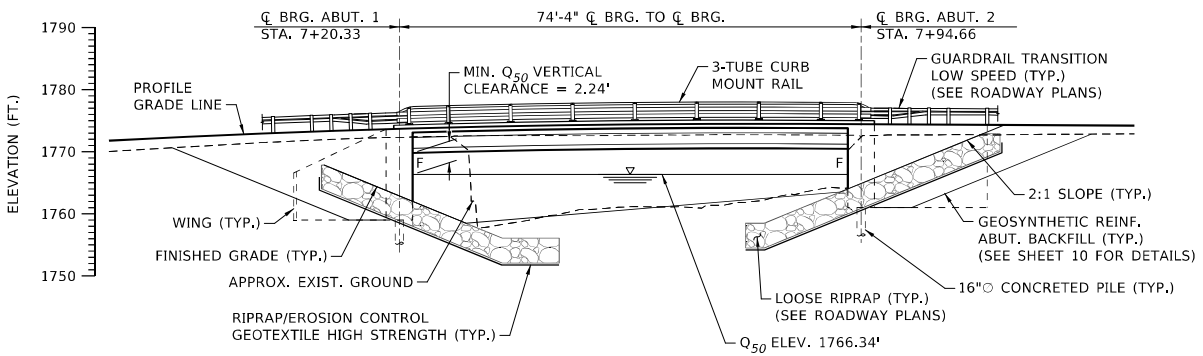
HORIZONTAL ALIGNMENT DATA

CURVE 1
PI = 6+65.06
Δ = 35°44'27" RT
T = 53.84'
L = 104.18'
R = 167.00'
N = 1597045.565
E = 2595478.535

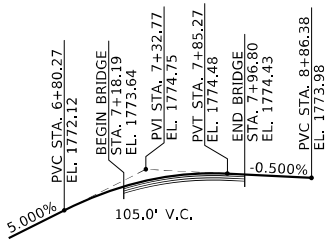
CURVE 2
PI = 8+49.55
Δ = 01°01'04" RT
T = 4.55'
L = 9.10'
R = 512.00'
N = 1596884.170
E = 2595574.962

NOTES

1. SEE RDWY. PLANS FOR RELOCATION OR IMPROVEMENTS OF EXISTING UTILITIES.



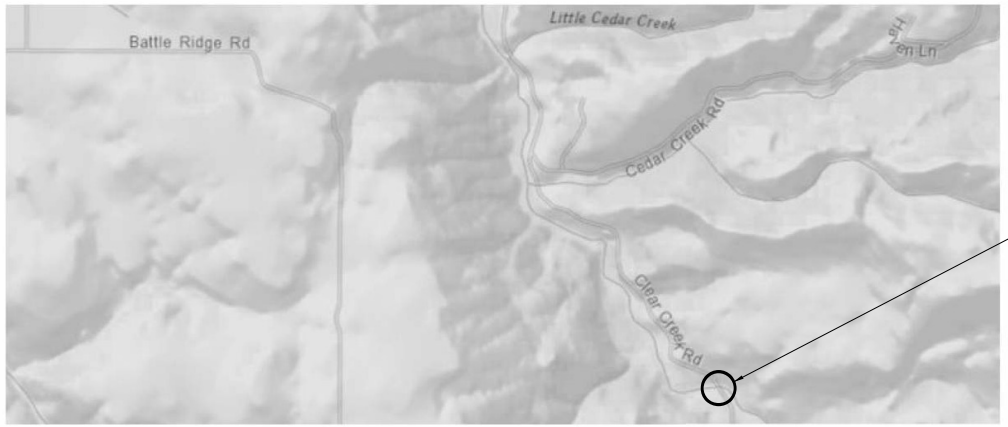
ELEVATION
1"=20'-0"



PROFILE DATA
CLEAR CREEK RD.
NTS

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	SITUATION AND LAYOUT	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED A. RIGEB	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D01.dgn				BRIDGE DWG. NO. 18486	SHEET 1 OF 26
				DWG. CHECKED A. RIGEB	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.				
				CORRECTIONS						

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



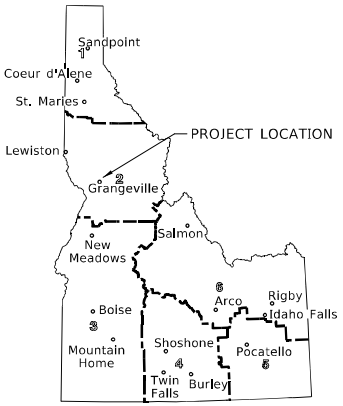
VICINITY MAP

NTS

ONE DIRECTIONAL TRAFFIC DATA

CONSTRUCTION YEAR 2026
AADT ..... N/A
CAADT% ..... N/A

FUTURE YEAR 2046
AADT ..... N/A
CAADT% ..... N/A



IDAHO MAP

NTS

SHEET INDEX

QUANTITIES

203-020A	REMOVAL OF BRIDGE - FULL (CLEAR CREEK ROAD)	1	EA
+ 210-005A	STRUCTURE EXCAVATION SCHEDULE NO. 1	442	CY
+ 215-005A	GEOSYNTHETIC REINFORCED ABUTMENT BACKFILL	672	CY
502-140A	CONCRETE CLASS 40-A SCHEDULE NO. 1	168.3	CY
+ 502-310A	CONCRETE CLASS 40 AF SCHEDULE NO. 2	118.4	CY
+ 502-375A	PRESTRESSED BULB TEE GIRDER (36" DEPTH)	376.7	FT
+ 503-010A	METAL REINFORCEMENT SCHEDULE NO. 1	29,941	LB
+ 503-015A	METAL REINFORCEMENT SCHEDULE NO. 2	11,568	LB
+ 503-020A	EPOXY COATED METAL REINFORCEMENT	15,235	LB
+ 504-050A	3-TUBE CURB MOUNT RAIL	155.0	FT
507-005A	ELASTOMERIC BEARINGS PLAIN (½" x 12" x 2'-0")	10	EA
519-005A	CONCRETED PILES	372	FT
520-005A	PREDRILLING FOR PILING IN SOIL	348	FT
560-005A	DEWATERING FOUNDATION	1	LS
586-005A	UTILITY CONDUIT (CLEAR CREEK ROAD)	1	LS
S501-15A	RETAINING WALL	535	SF

+ PAID BY PLAN QUANTITY

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED I. BECKER
DESIGN CHECKED A. RIGEB
DETAILED A. MITCHELL
DWG. CHECKED A. RIGEB
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME

29256 bdtl D02.dgn

DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

SHEET INDEX, QUANTITIES, & VICINITY MAP

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 2 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

DESIGN

DESIGN SPECIFICATIONS

"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" 10th EDITION AND DECEMBER 2024 ITD BRIDGE DESIGN LRFD MANUAL.

DESIGN PROCEDURES

DECK SLAB DESIGNED USING EMPIRICAL DESIGN METHOD. RAILING IN ACCORDANCE WITH MASH TL-4. DESIGN SPEED IS 25 MPH.

PROPRIETARY COMPUTER SOFTWARE PROGRAMS USED TO FACILITATE THE DESIGN:

NAME	VERSION	RELEASE DATE		NAME	VERSION	RELEASE DATE
PGSUPER	8.0.5.0	2024				
LPILE	2019.11.02	2019				

DESIGN LOADS

PERMANENT LOADS

DC	UNIT WEIGHT OF REINFORCED CONCRETE	0.150 kcf
	UNIT WEIGHT OF PRESTRESSED CONCRETE	0.153 kcf
	3-TUBE CURB MOUNT RAIL	0.232 klf/SIDE
DW	INITIAL WEARING SURFACE	0.000 ksf
	FUTURE WEARING SURFACE	0.028 ksf
	UTILITIES	0.01 klf/GIRDER
	FUTURE UTILITIES	0.04 klf/GIRDER
EV	UNIT WEIGHT OF SOIL	0.140 kcf
EH	ACTIVE PRESSURE	0.033 kcf
	AT REST PRESSURE	0.054 kcf
	PASSIVE PRESSURE	0.589 kcf

TRANSIENT LOADS

LL	HL-93	
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM	
LS	LIVE LOAD SURCHARGE AT ABUTMENT	3.00 ft
	LIVE LOAD SURCHARGE AT WINGWALL	2.00 ft
TU	UNIFORM TEMPERATURE RANGE	0°F TO 80°F
	BASE SETTING TEMPERATURE	60°F

EXTREME EVENT LOADS

EQ	SITE CLASS	D
	ACCELERATION COEFFICIENT S_{D1}	0.16 g
	SEISMIC PERFORMANCE ZONE	2

PILE DESIGN LOADS FOR INTEGRAL ABUTMENT

STRENGTH LIMIT STATE

NOMINAL AXIAL RESISTANCE R_n	=	539	kips
AXIAL RESISTANCE FACTOR Φ	=	0.525	
FACTORED AXIAL RESISTANCE ΦR_n	=	283	kips
MAX. APPLIED AXIAL LOAD Q	=	248	kips
MIN. APPLIED AXIAL LOAD Q	=	93	kips

PILE DESIGN DATA FOR SCOUR

FOUNDATIONS DESIGNED FOR THE FOLLOWING SCOUR DEPTHS BELOW THE BOTTOM OF THE PILE CAP.

ABUTMENT = 3.09 ft

GENERAL NOTES

MATERIALS, CONSTRUCTION AND WORKMANSHIP IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT: 2023 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2025 SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, AND THE PROJECT PLANS.

MATERIALS

CONCRETE:	DECK SLAB, DIAPHRAGMS, AND RAILING CURB - CLASS 40AF	f'c = 4.0 ksi
	ABUTMENTS AND WINGS - CLASS 40A	f'c = 4.0 ksi
	PRESTRESS GIRDERS	f'c = 8.0 ksi
METAL REINFORCEMENT:	AASHTO M31, GRADE 60	fy = 60 ksi
PRESTRESSING REINFORCEMENT:	AASHTO M203, GRADE 270 LOW RELAXATION	fpu = 270 ksi

PLAN DIMENSIONS AND ELEVATIONS

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.

PROVIDE 2" CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

CONSTRUCTION

EPOXY-COATED REINFORCEMENT IS DESIGNATED BY AN (E) AFTER THE BAR MARK.

PROVIDE ROUGHENED CONSTRUCTION JOINTS TO ¼" AMPLITUDE UNLESS NOTED OTHERWISE. PROVIDE CONSTRUCTION JOINTS ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.

ELEVATIONS BASED ON NAVD 88 DATUM.

INCIDENTAL ITEMS

WORK NECESSARY TO FULFILL THE CONTRACT THAT IS NOT MEASURED OR PAID FOR SEPARATELY.

ELASTOMERIC BEARINGS

DESIGN PROCEDURE: METHOD A

GRADE 3 60 DUROMETER POLYCHLOROPRENE

DESIGN LOAD (SERVICE 1)

ABUTMENT ..... 172 kips

ABBREVIATIONS

E.F. = EACH FACE
F.F. = FILL FACE
N.F. = NEAR FACE
UNO = UNLESS NOTED OTHERWISE
SPS. = SPACES
T&B = TOP AND BOTTOM

BLOCK WALLS

THE FOLLOWING TABLE SUMMARIZES THE SOIL INFORMATION TO BE USED IN THE WALL DESIGN. OTHER INFORMATION NEEDED FOR THE WALL DESIGN CAN BE FOUND IN THE GEOTECHNICAL ENGINEERING REPORT.

BLOCK WALL DESIGN PARAMETERS

SOIL	WET UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (DEGREE)	ALLOWABLE BEARING CAPACITY (ksf)	ULTIMATE BEARING CAPACITY ** (ksf)
WALL BACKFILL	*	*	*	N/A	N/A
RETAINED SOIL	140	0	38°	N/A	N/A
FOUNDATION SOIL	140	0	38°	*	*

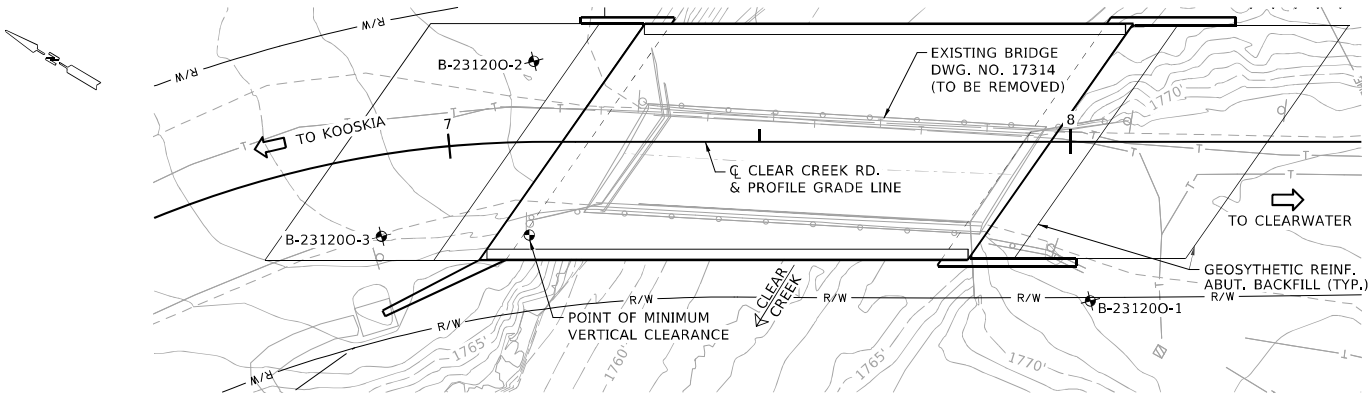
* - TO BE DETERMINED BY THE CONTRACTOR

** - RESISTANCE FACTOR = 0.65 (STRENGTH)

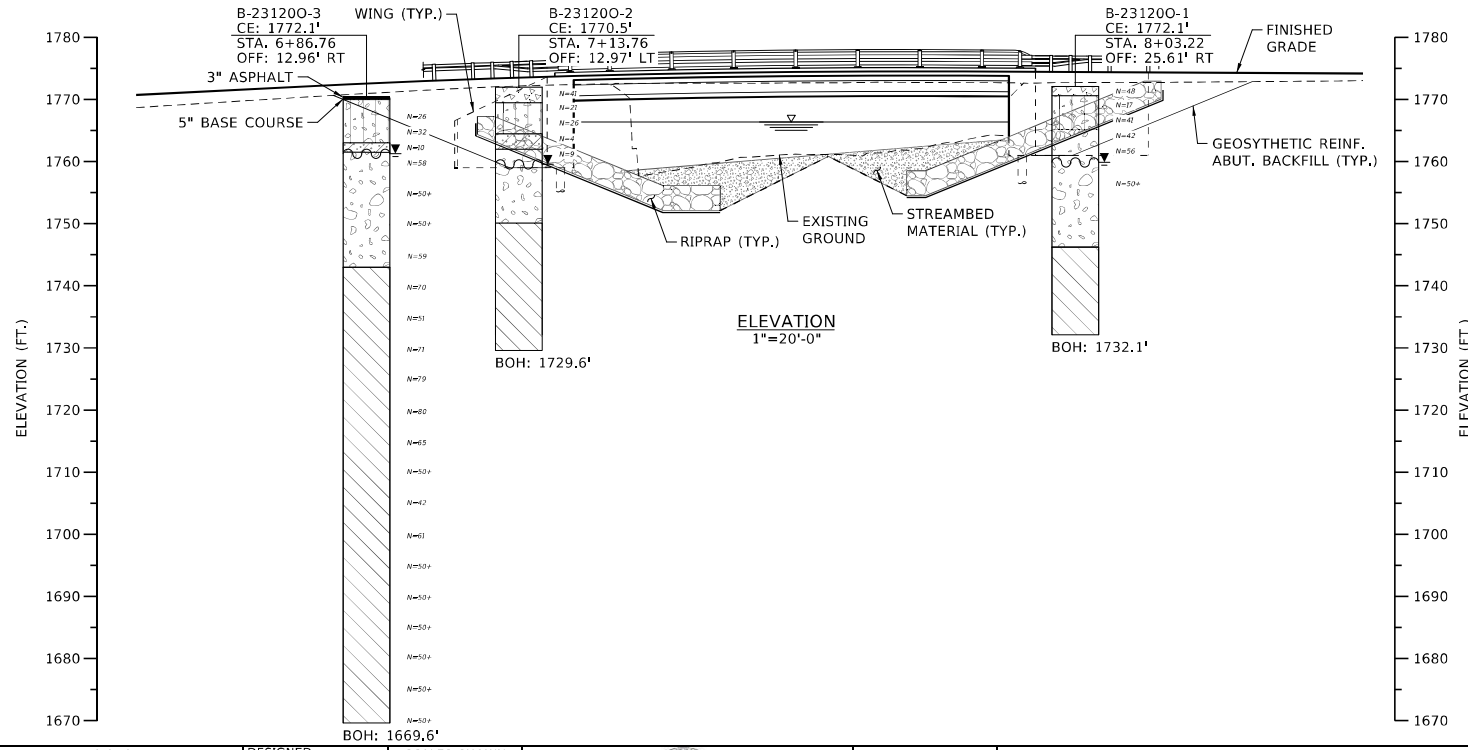
REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	DESIGN AND GENERAL NOTES	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED A. RIGEB	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D03.dgn				BRIDGE DWG. NO. 18486	SHEET 3 OF 26
				DWG. CHECKED A. RIGEB	DRAWING DATE: MARCH 2026					
				CORRECTIONS						

DAVID EVANS AND ASSOCIATES INC.

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



PLAN
1"=20'-0"



ELEVATION
1"=20'-0"

LEGEND:

OFF	OFFSET FROM CENTERLINE (FEET)
CE	COLLAR ELEVATION (FEET)
N	BLOWS OF A 140 LB HAMMER FALLING 30' REQUIRED TO DRIVE A 2" OD SPLIT-SPOON SAMPLE A DISTANCE OF 12 INCHES
	APPROXIMATE GROUNDWATER ELEVATION ENCOUNTERED DURING DRILLING

NOTES:

1. THE SUBSURFACE CONDITIONS SHOWN REPRESENTS THE APPROXIMATE DEPTHS OF CHANGES IN SOIL TYPE. THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL OR ABRUPT.
2. THIS PROFILE SHOWS SUBSURFACE CONDITIONS ENCOUNTERED AT THE SPECIFIC BORING LOCATIONS AT THE TIME THE BORINGS WERE DRILLED. THEY MAY NOT BE REPRESENATIVE OF SUBSURFACE SOIL, ROCK AND GROUNDWATER CONDITIONS AT OTHER LOCATIONS AND TIMES.
3. COBBLES AND BOULDERS PRESENT AND ANTICIPATED TO BE ENCOUNTERED AT THE SITE. PREDRILLING FOR THE 16"∅ SHELL PILES IS REQUIRED.
4. GROUNDWATER ELEVATIONS SHOWN ARE BASED ON WATER LEVELS AT THE TIME OF DRILLING GROUNDWATER LEVELS ARE APPROXIMATE AND SHOULD BE EXPECTED TO FLUCTUATE.

- (AC) ASPHALT
- (GW) BASE COURSE - WELL-GRADED GRAVEL WITH SAND
- (GM) EMBANKMENT FILL - SILTY GRAVEL WITH SAND, COBBLES, AND BOULDERS
- (GW) ALLUVIUM - WELL-GRADED GRAVEL WITH SAND, BOULDERS, AND COBBLES
- (SC) ALLUVIUM - CLAYEY SAND
- (CL) INTERBED - SANDY LEAN CLAY

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED T. WAMBEKE
DESIGN CHECKED S. LARSON
DETAILED A. MITCHELL
DWG. CHECKED T.WAMBEKE
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D04.dgn
DRAWING DATE: MARCH 2026

GeoProfessional Innovation

ENGLISH

PROJECT NO.

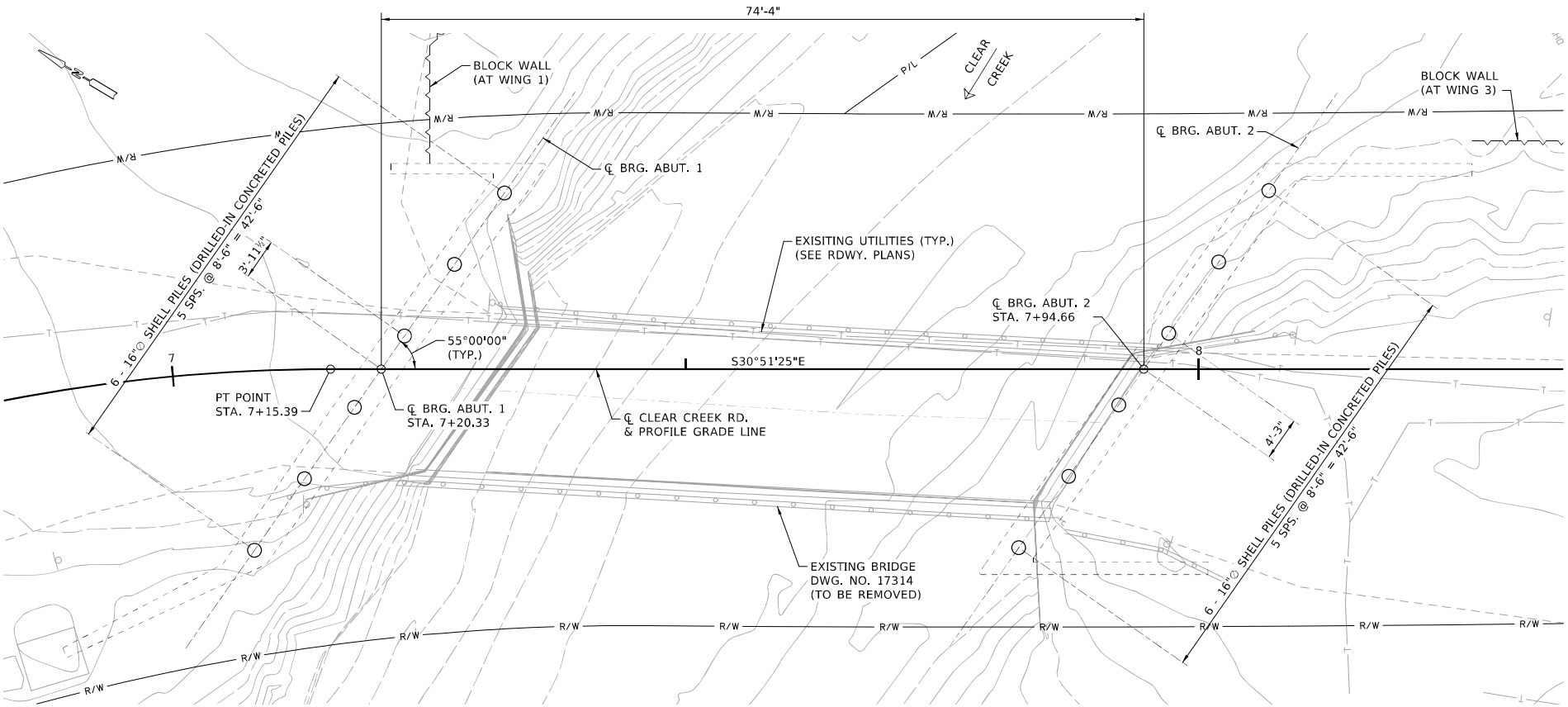
FOUNDATION INVESTIGATION PLAT

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 4 OF 26

PROFESSIONAL ENGINEER LICENSED
P-8863
3/23/2026
STATE OF IDAHO
TRAVIS JAMES WAMBEKE



FOUNDATION PLAN AND PILE LAYOUT
1"=10'-0"

LEGEND:

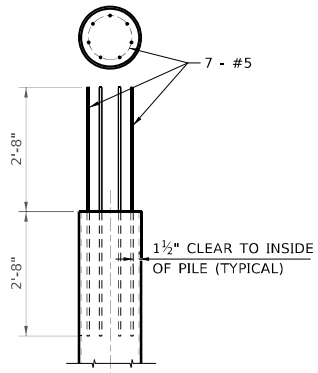
◯ DENOTES VERTICAL PILING

NOTES:

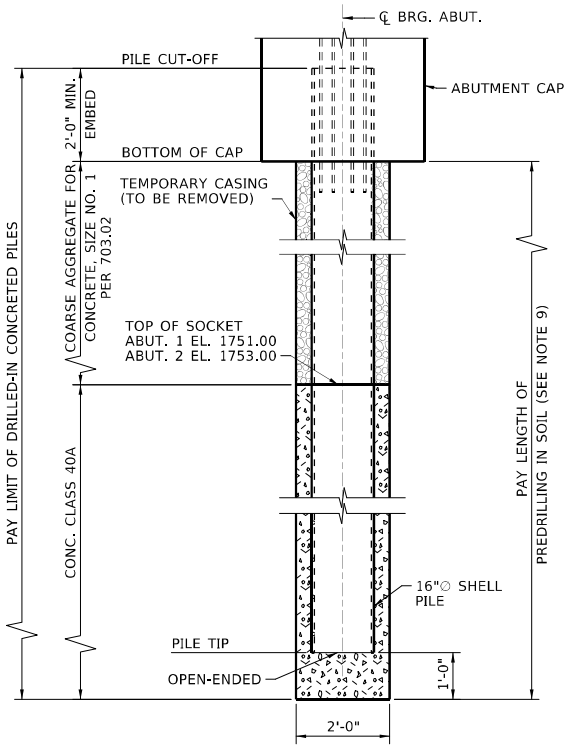
1. SEE SHEET 6 FOR PILE NOTES, PILE DETAILS, AND PILE SCHEDULE.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	FOUNDATION PLAN	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED G. VAIDYA	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D05.dgn				BRIDGE DWG. NO. 18486	SHEET 5 OF 26
				DWG. CHECKED A. RIGEB	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.				
				CORRECTIONS						

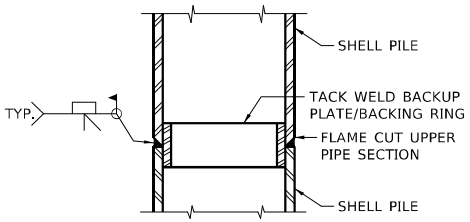
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



SHELL PILE TENSION CONNECTION
NTS



DRILLED-IN CONCRETED PILE DETAIL
⅜"=1'-0"



OPTIONAL SHELL PILE SPLICE DETAIL
NTS

NOTES

MATERIAL SPECIFICATIONS

1. PROVIDE 16"∅ CONCRETE-FILLED STEEL SHELL PILES WITH ½" WALL THICKNESS THAT CONFORM TO ASTM A-252 GRADE 3 AND 708.30. PROVIDE CLASS 30 CONCRETE THAT IS INCIDENTAL TO THE STEEL SHELL PILE PAY ITEM.
2. PROVIDE BACKUP PLATES/BACKING RINGS THAT ARE AT LEAST ⅜" THICK AND CONFORM TO ASTM A-36 OR OF THE SAME MATERIAL AS THE STEEL SHELL PILES.
3. SPLICE PILE ACCORDING TO THE PILE SPLICE DETAIL OR PROVIDE PREFABRICATED SPLICERS ACCORDING TO ITD'S QUALIFIED PRODUCTS LIST FOR CATEGORY 505 PILING AND SUB-CATEGORY "SPLICING FOR STEEL PIPE PILE".

WELDING

4. QUALIFICATION OF WELDERS, MATERIALS, INSPECTION, AND PROCEDURES FOR WELDING SHELL PILES MUST CONFORM TO THE CURRENT EDITION OF AWS D1.1.
5. PROVIDE WELDING QUALIFICATION TESTS TO DEMONSTRATE THE WELDABILITY OF SHELL PILES UNDER FIELD CONDITIONS FOR ALL TYPES OF WELDS TO BE MADE ON THE PILES.
6. ATTACH PREFABRICATED SPLICERS BY WELDING IN ACCORDANCE WITH THE CURRENT EDITION OF AWS D1.1. SUBMIT WELDING DETAILS AND PROCEDURES FOR APPROVAL.

MISCELLANEOUS

7. PILE TIP ELEVATIONS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
8. ESTIMATED PILE LENGTHS ARE COMPUTED FROM PILE CUT-OFF AND ESTIMATED PILE TIP ELEVATIONS.
9. CONTRACTOR SHOULD EXPECT SIGNIFICANT COBBLES AND BOULDERS AS WELL AS LARGE BURIED LOGS.
10. SEE SECTION 230.08 OF PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS ON DRILLED PILE EXCAVATION, TEMPORARY CASING, AND CONSTRUCTION.

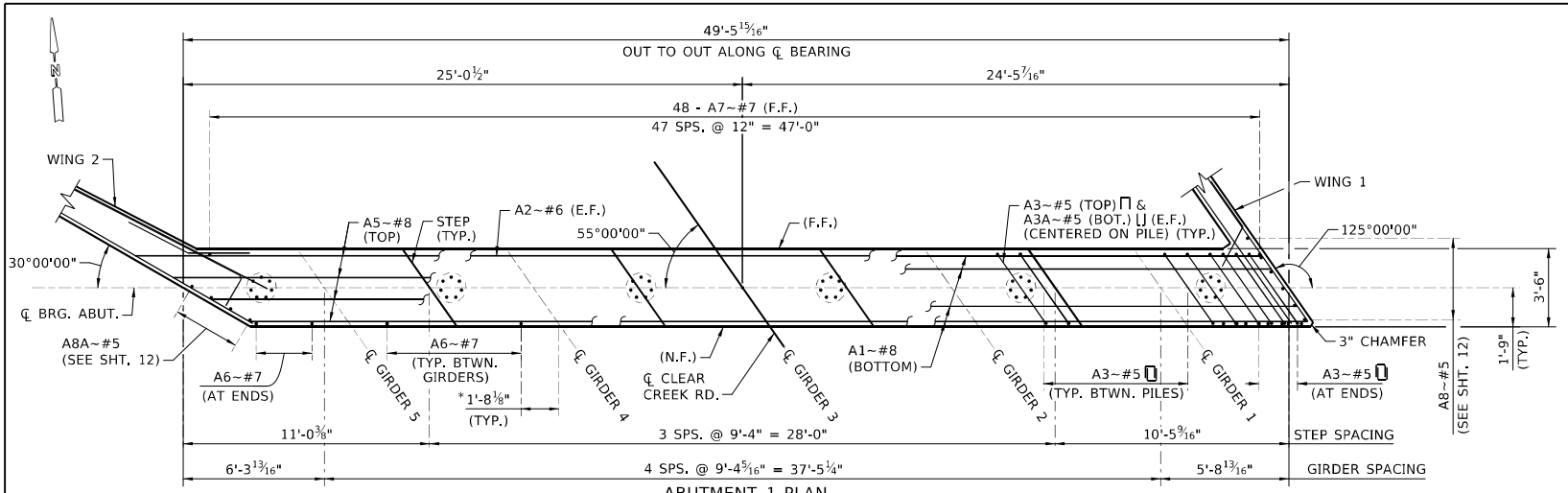
PILE SCHEDULE

LOCATION	NO.	ELEVATION			ESTIMATED STEEL SHELL PILE LENGTH (FT)	ESTIMATED PAY LIMIT (FT)
		PILE CUT-OFF	ESTIMATED PILE TIP	HIGHEST PILE TIP		
ABUT. 1	6	1761.00	1731.00	1731.00	30.0	31.0
ABUT. 2	6	1763.00	1733.00	1733.00	30.0	31.0

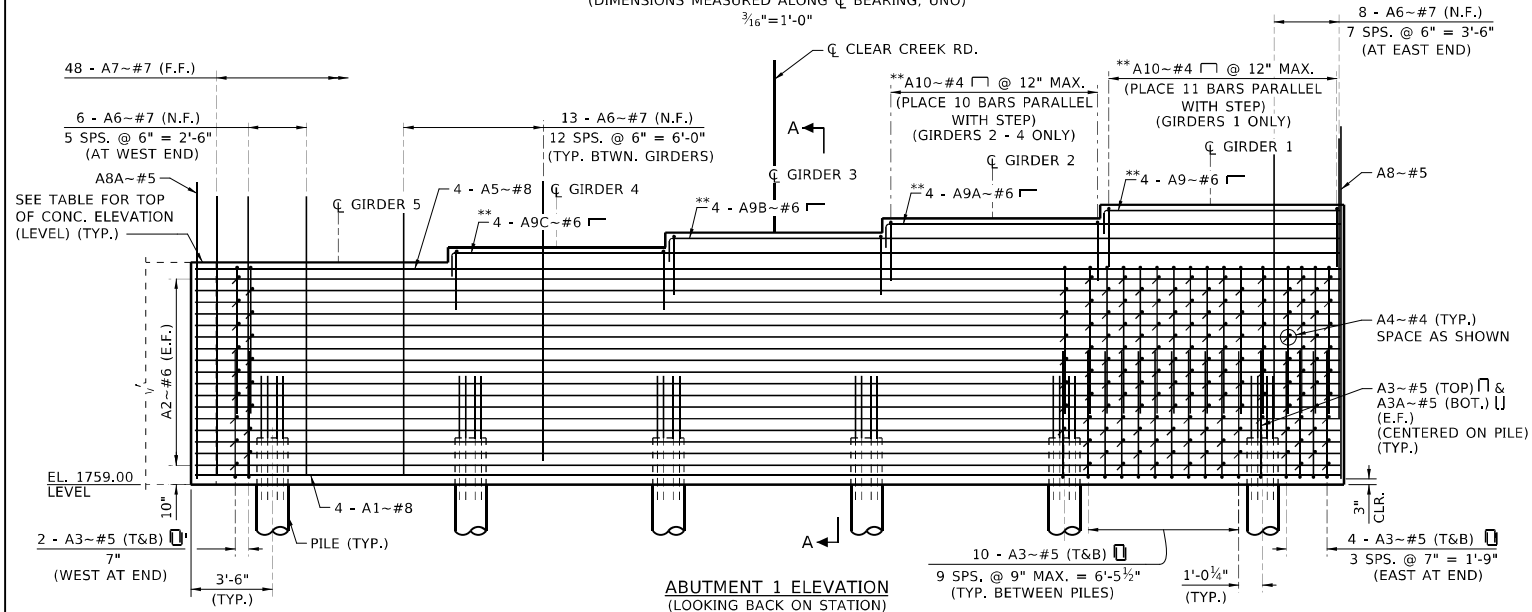
REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	FOUNDATION DETAILS	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED G. VAIDYA	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D06.dgn				BRIDGE DWG. NO. 18486	SHEET 6 OF 26
				DWG. CHECKED A. RIGEB	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.				
				CORRECTIONS						

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

ABUT. 1 TOP OF CONCRETE ELEVATION TABLE	
GIRDER NO.	EL.
1	1771.02
2	1770.43
3	1769.82
4	1769.19
5	1768.54



ABUTMENT 1 PLAN
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3/16"=1'-0"



ABUTMENT 1 ELEVATION
(LOOKING BACK ON STATION)
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3/16"=1'-0"

NOTES
1. SEE SHEET 9 FOR SECTION A-A AND ABUTMENT DETAILS.
2. ALL ELEVATIONS ARE AT ℄ BEARING.
* MEASURED ALONG N.F. OF ABUTMENT.
** A9 SPACING TO MATCH WITH A5, A10 STIRRUP ORIENTATION TO MATCH WITH A3 STIRRUPS (PARALLEL TO GIRDERS).

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED G. VAIDYA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D07.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

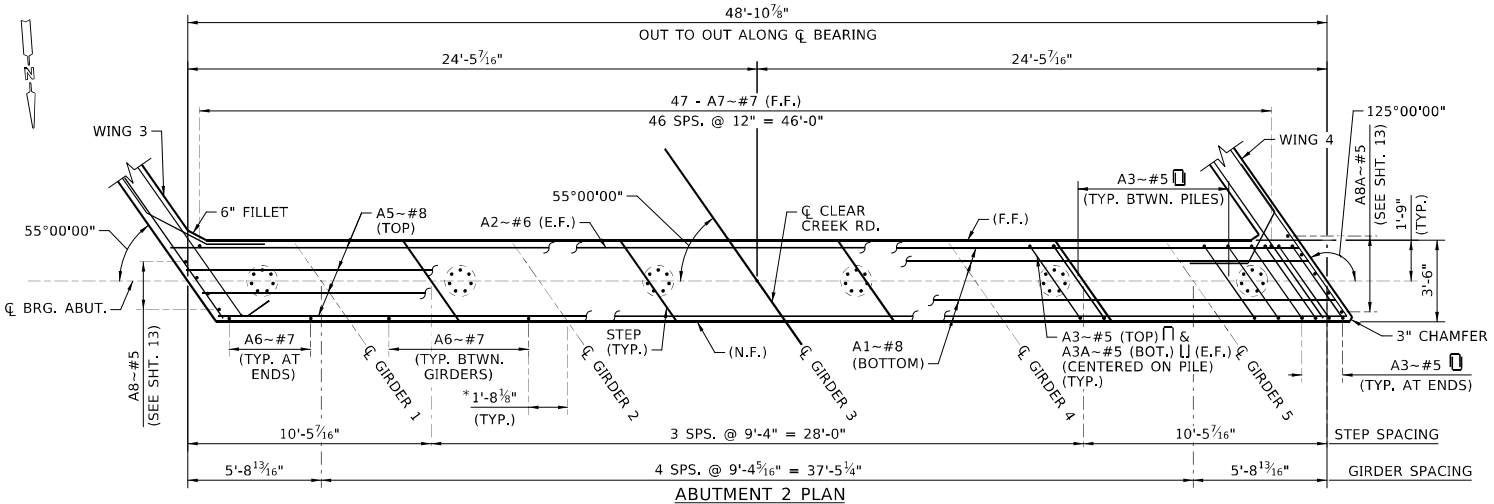
ABUTMENT 1 PLAN & ELEVATION

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

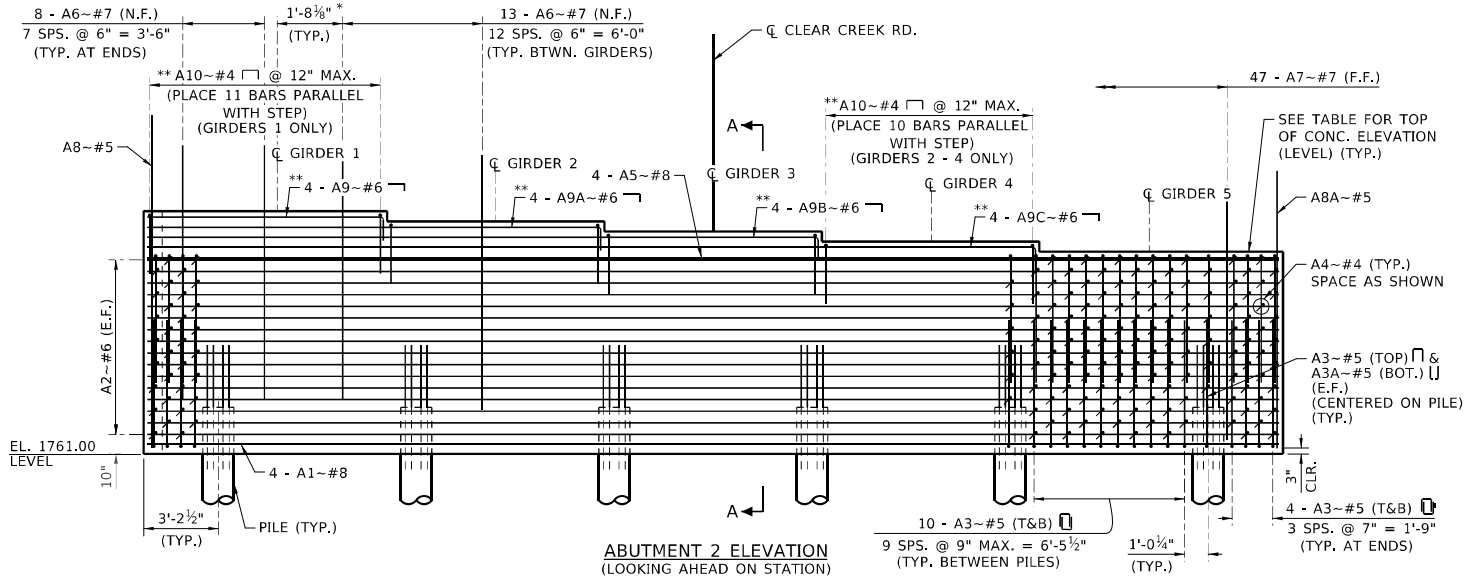
BRIDGE PLANS
BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 7 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

ABUT. 2 TOP OF CONCRETE ELEVATION TABLE	
GIRDER NO.	EL.
1	1771.42
2	1770.98
3	1770.55
4	1770.12
5	1769.68



ABUTMENT 2 PLAN
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3/16"=1'-0"



ABUTMENT 2 ELEVATION
(LOOKING AHEAD ON STATION)
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3/16"=1'-0"

NOTES
1. SEE SHEET 9 FOR SECTION A-A AND ABUTMENT DETAILS.
2. ALL ELEVATIONS ARE AT ℄ BEARING.
* MEASURED ALONG N.F. OF ABUTMENT.
** A9 SPACING TO MATCH WITH A5, A10 STIRRUP ORIENTATION TO MATCH WITH A3 STIRRUPS (PARALLEL TO GIRDERS).

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED G. VAIDYA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D08.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

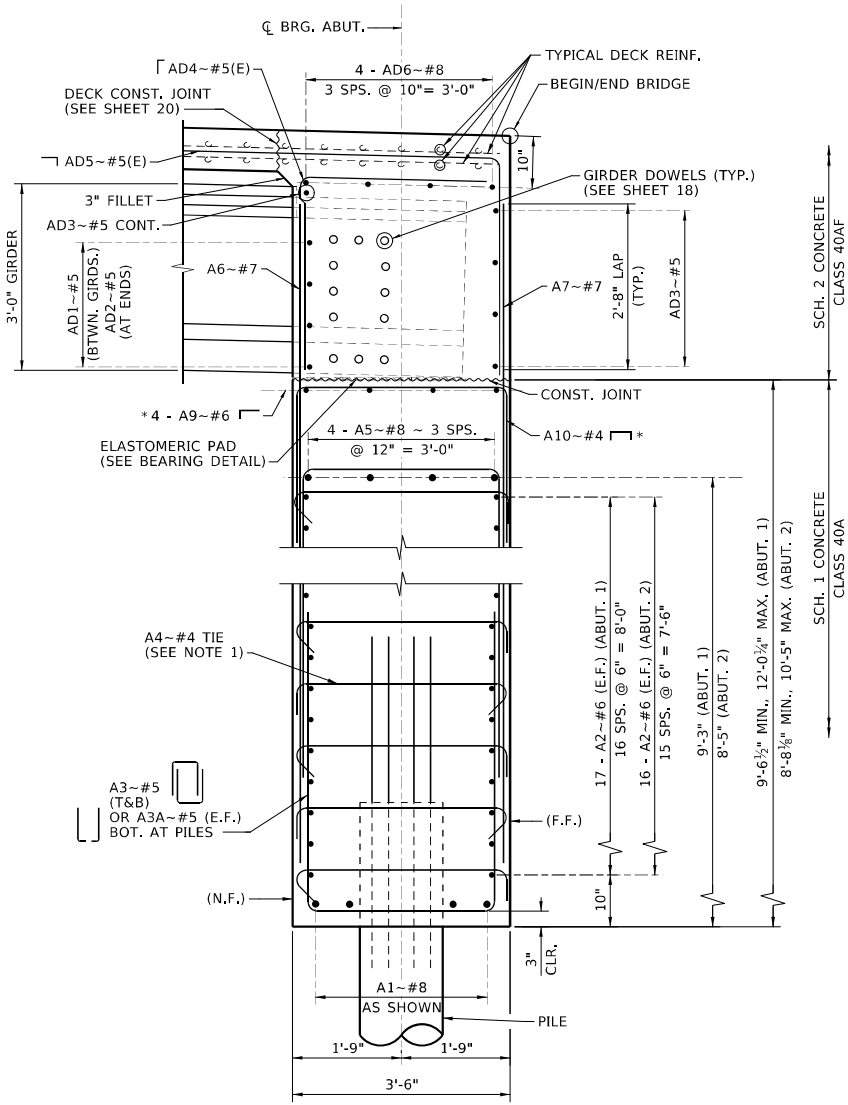
ENGLISH
PROJECT NO.

ABUTMENT 2 PLAN & ELEVATION

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS
BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 8 OF 26

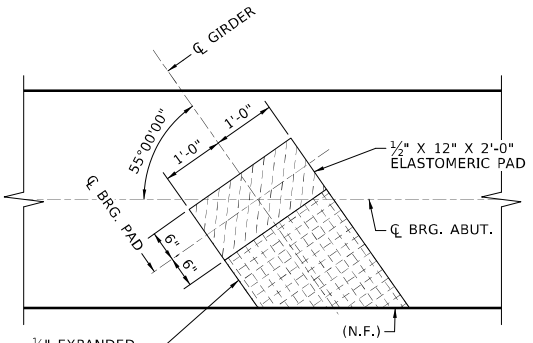
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



SECTION A-A
½"=1'-0"

NOTES

1. HOOK TIES AROUND HORIZONTAL AND VERTICAL BARS. ALTERNATE 135° HOOKS ON ADJACENT BARS.
* AT GIRDERS 1 - 4 ONLY.



BEARING DETAIL
½"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED G. VAIDYA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D09.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

ABUTMENT DETAILS (1 OF 2)

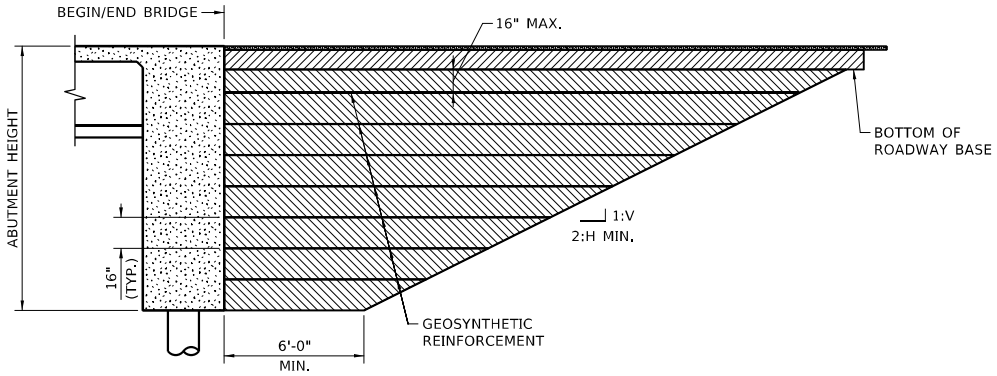
79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 9 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

NOTES
1. PROVIDE GEOSYNTHETIC REINFORCED ABUTMENT BACKFILL IN ACCORDANCE WITH 215.
2. PROVIDE 2" DIAMETER REINFORCED CARDBOARD TUBE TO INSTALL ROADWAY GUARDRAIL POSTS. DO NOT DRIVE POSTS THROUGH GEOSYNTHETIC REINFORCEMENT.



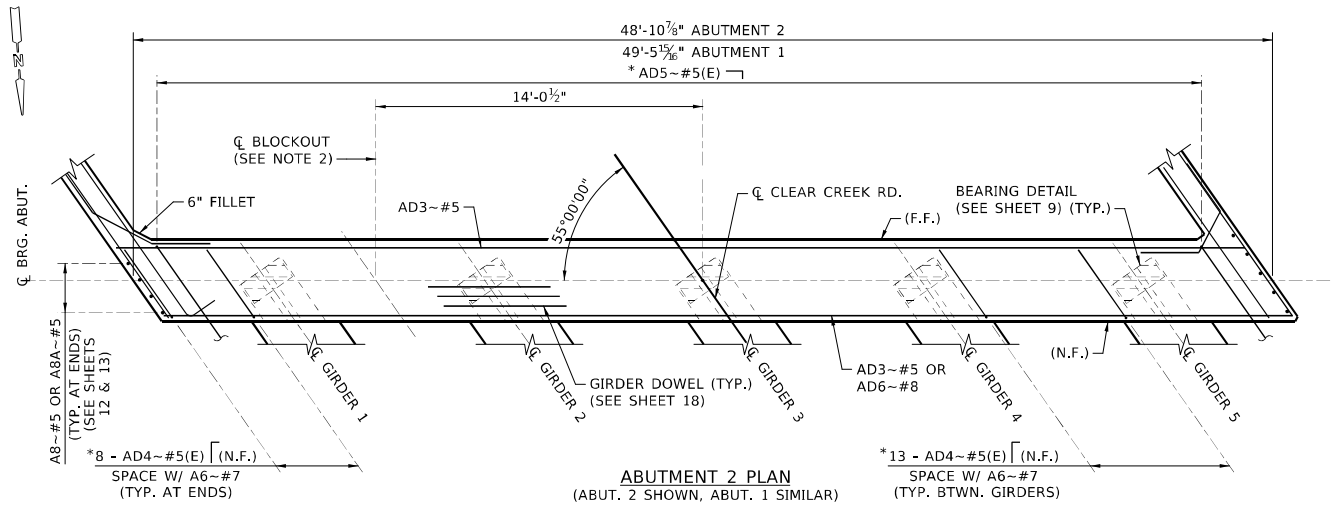
TYPICAL SECTION GEOSYNTHETIC REINFORCED ABUTMENT BACKFILL
(TYPICAL BOTH ABUTMENTS)
(ABUTMENT SHOWN, SIMILAR PLACEMENT AT WINGS)
NTS

LEGEND
- ROADWAY BASE (SEE RDWY. PLANS)
- GEOSYNTHETIC REINFORCED ABUTMENT BACKFILL

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	ABUTMENT DETAILS (2 OF 2)	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER		DAVID EVANS AND ASSOCIATES INC.	PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	BRIDGE KEY NO. 29256	
				DESIGN CHECKED G. VAIDYA	CADD FILE NAME 29256 bdtl D10.dgn				COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	DRAWING DATE: MARCH 2026				BRIDGE DWG. NO. 18486	SHEET 10 OF 26
				DWG. CHECKED M. PETERSEN						
				CORRECTIONS						

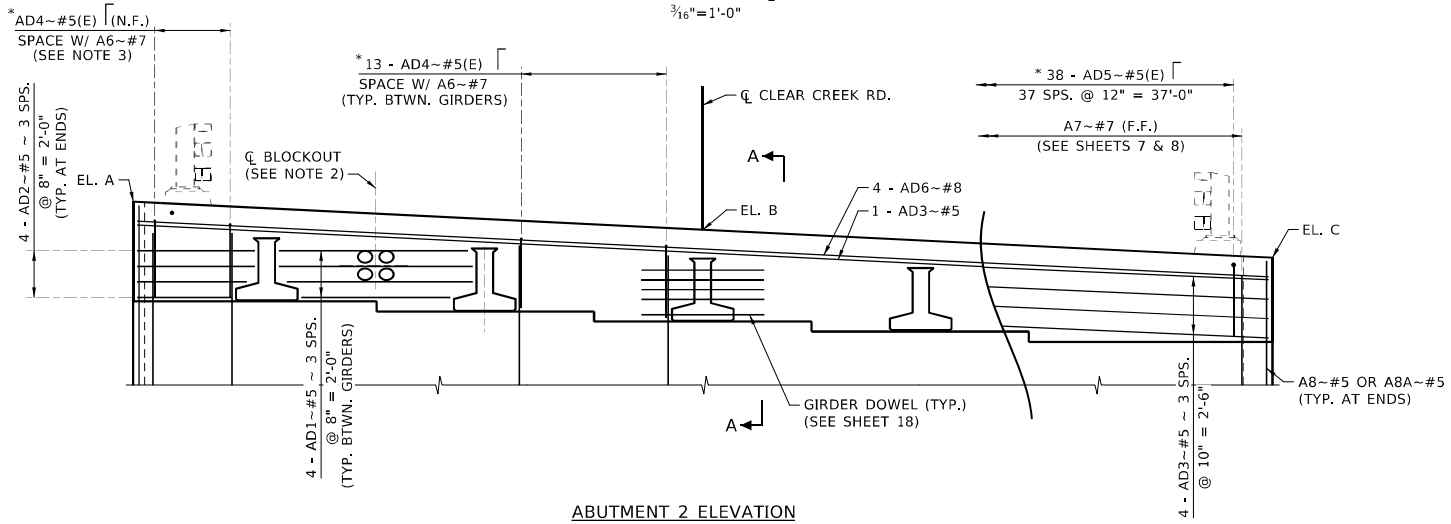
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

TOP OF CONC. ELEVATIONS ALONG ℄ BRG.			
LOCATION	EL. A	EL. B	EL. C
ABUT. 1	1775.26	1773.70	1771.97
ABUT. 2	1775.57	1774.44	1773.30



ABUTMENT 2 PLAN

(ABUT. 2 SHOWN, ABUT. 1 SIMILAR)
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3⁄16"=1'-0"



NEAR FACE REINFORCEMENT

ABUTMENT 2 ELEVATION

(LOOKING AHEAD ON STATION)
(ABUT. 2 SHOWN, ABUT. 1 SIMILAR)
(DIMENSIONS MEASURED ALONG ℄ BEARING, UNO)
3⁄16"=1'-0"

FILL FACE REINFORCEMENT

NOTES

1. SEE SHEET 9 FOR SECTION A-A AND ABUTMENT DETAILS.
2. SEE SHEET 21. ADJUST AD4, AD5 AND AD7 BARS IN CONFLICT WITH UTILITY BLOCKOUT. TRIM OTHER REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEAR AT UTILITY BLOCKOUT.
3. 8 - AD4~#5(E) (TYP. ABUT. 2 END)
   6 - AD4~#5(E) EAST SIDE ABUT. 1 END
   8 - AD4~#5(E) WEST SIDE ABUT. 1 END

* PLACE PARALLEL TO GIRDERS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED G. VAIDYA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D11.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

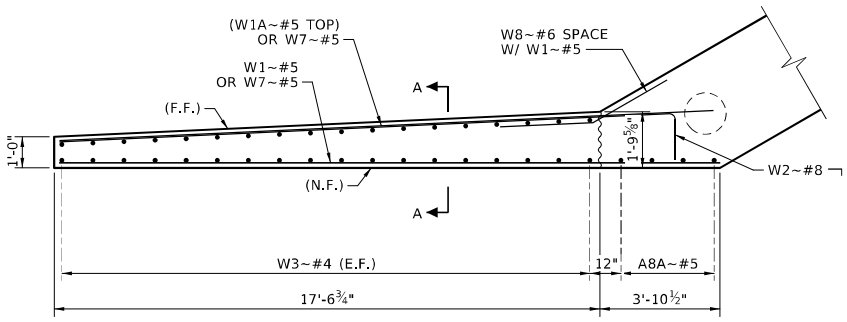
ABUTMENT END DIAPHRAGM DETAILS

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

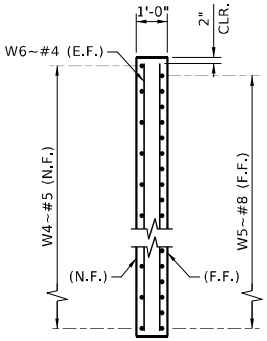
BRIDGE PLANS

BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 11 OF 26

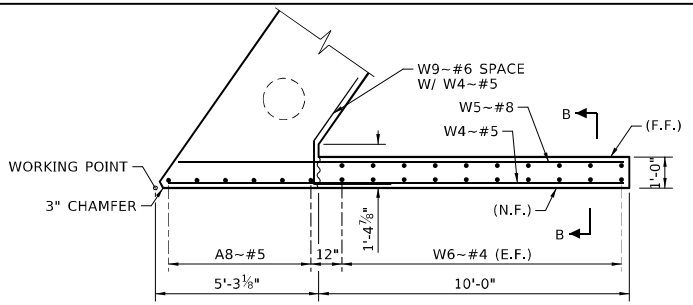
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



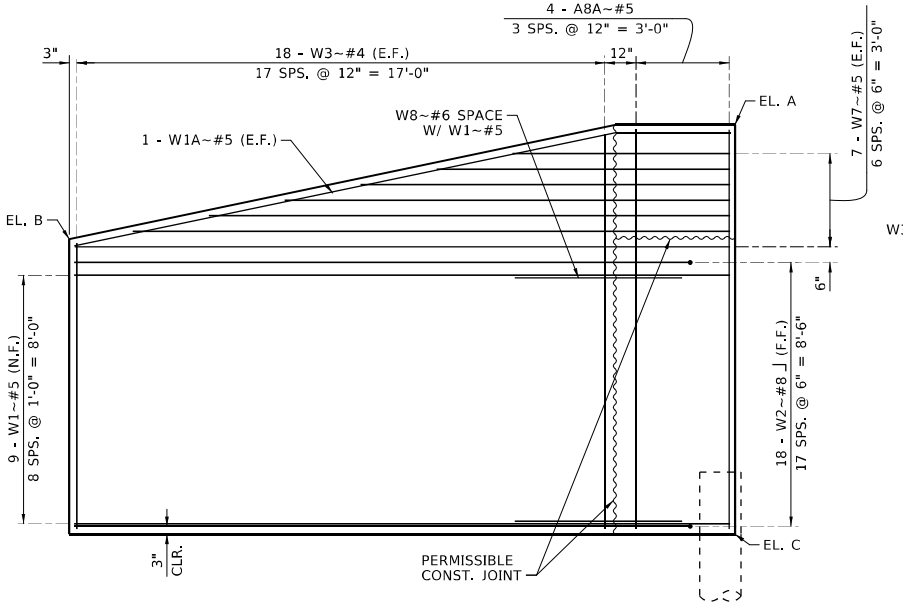
WING 2 PLAN
¼"=1'-0"



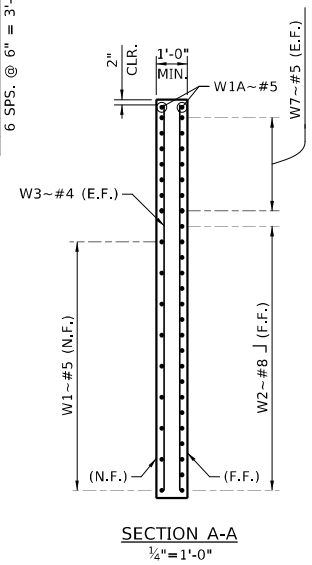
SECTION B-B
¼"=1'-0"



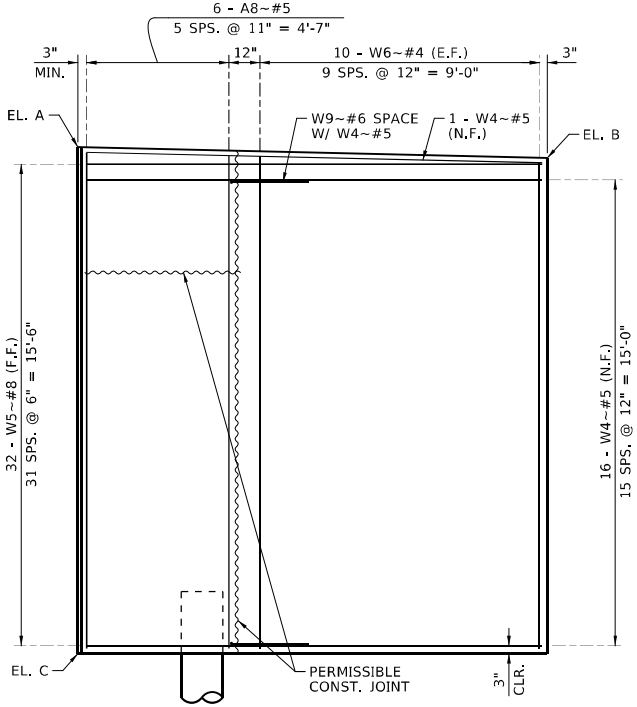
WING 1 PLAN
¼"=1'-0"



WING 2 ELEVATION
¼"=1'-0"



SECTION A-A
¼"=1'-0"



WING 1 ELEVATION
¼"=1'-0"

WING ELEVATION SCHEDULE			
LOCATION	EL. A	EL. B	EL. C
WING 1	1775.31	1774.96	1759.00
WING 2	1772.18	1768.50	1759.00

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED I. BECKER
DESIGN CHECKED N. KUHTA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D12.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

WINGWALL DETAILS (1 OF 2)

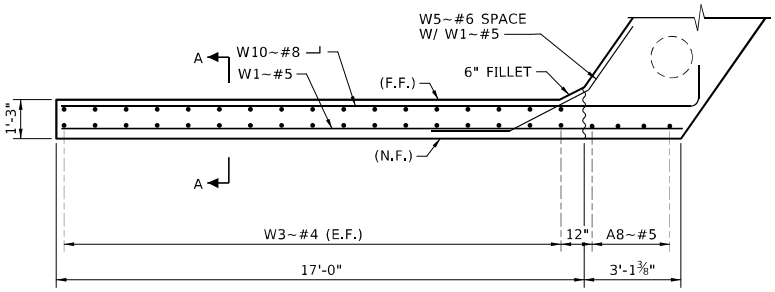
79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

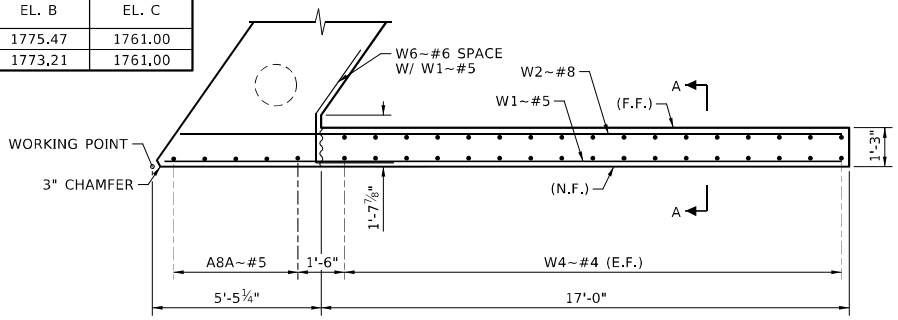
BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 12 OF 26

PROFESSIONAL ENGINEER
LICENSED
23269
3/23/2026
STATE OF IDAHO
ISAAC FINDLAY BECKER

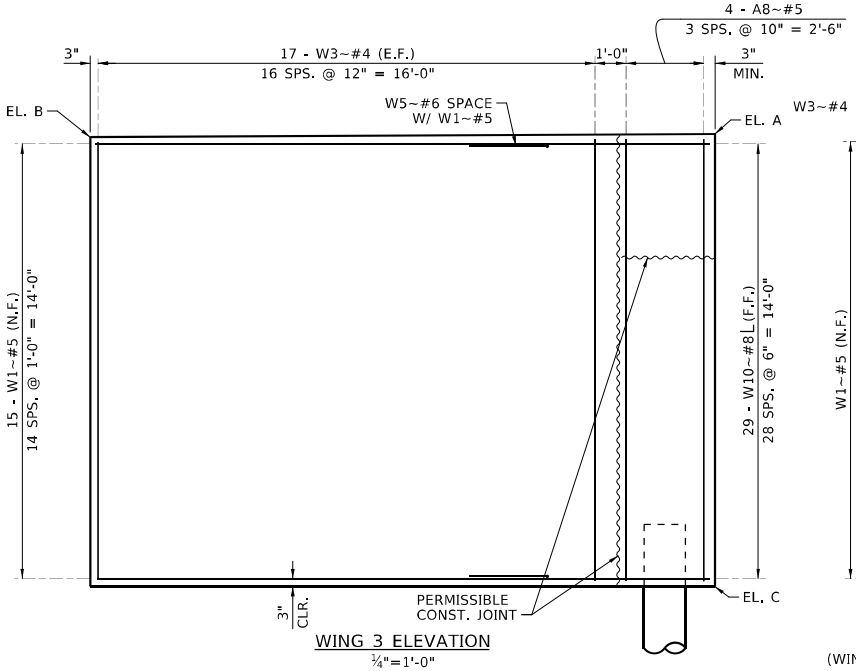
WING ELEVATION SCHEDULE			
LOCATION	EL. A	EL. B	EL. C
WING 3	1775.57	1775.47	1761.00
WING 4	1773.30	1773.21	1761.00



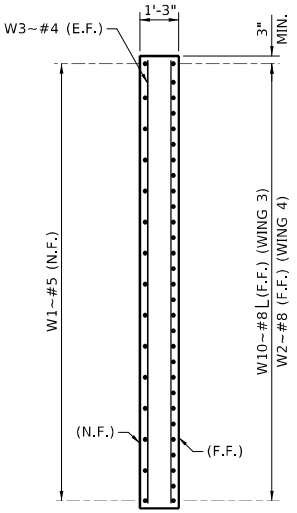
WING 3 PLAN
¼"=1'-0"



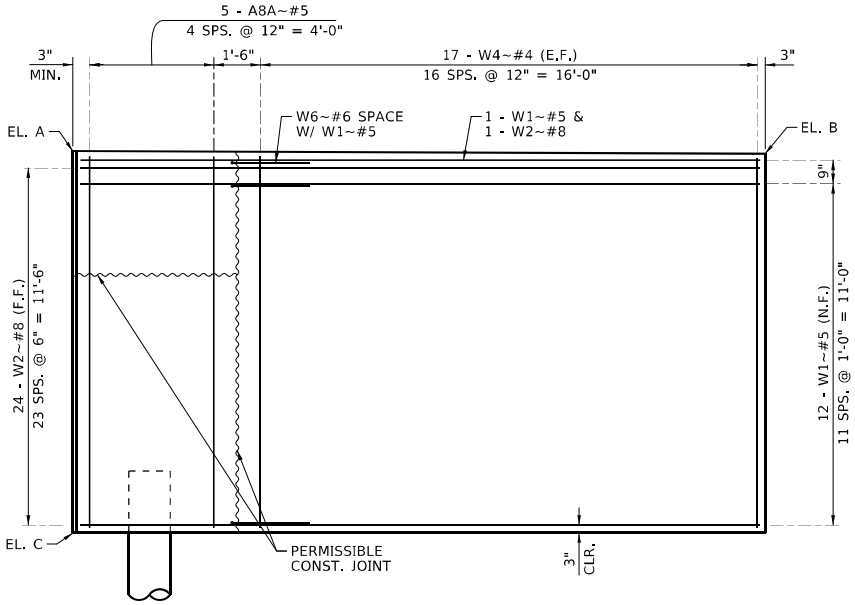
WING 4 PLAN
¼"=1'-0"



WING 3 ELEVATION
¼"=1'-0"



SECTION A-A
(WING 3 SHOWN, WING 4 SIMILAR)
¼"=1'-0"



WING 4 ELEVATION
¼"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED N. KUHTA
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D13.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

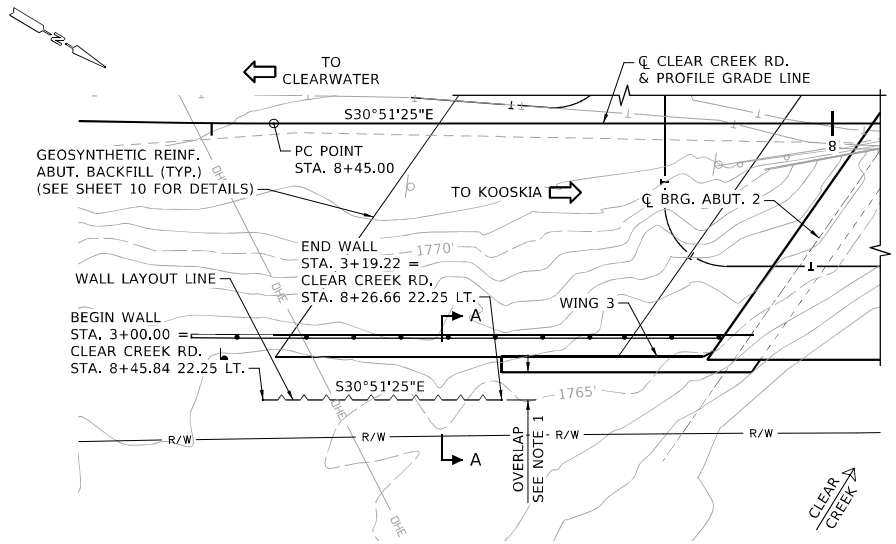
WINGWALL DETAILS (2 OF 2)

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

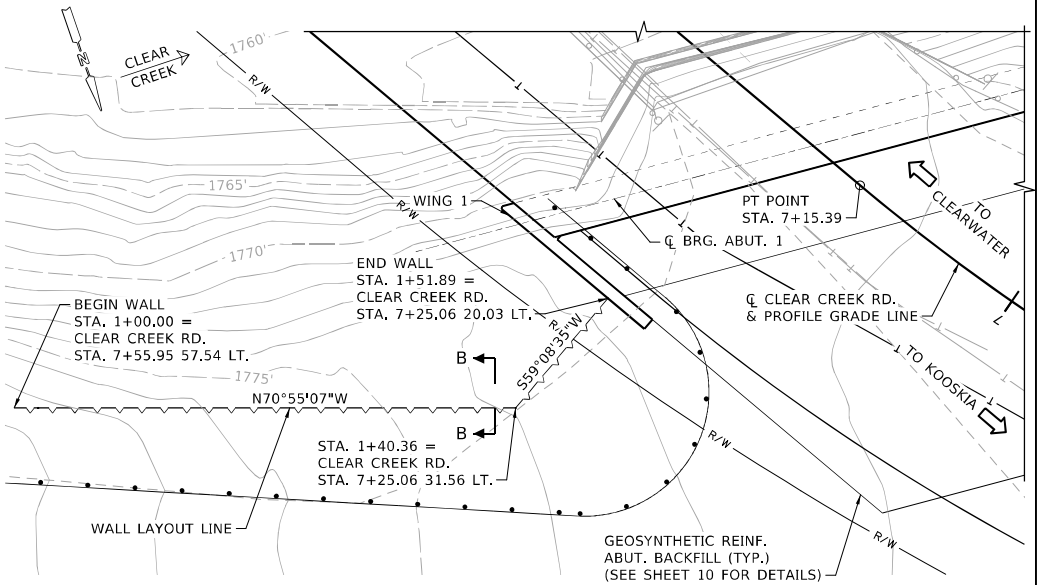
BRIDGE PLANS

BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 13 OF 26

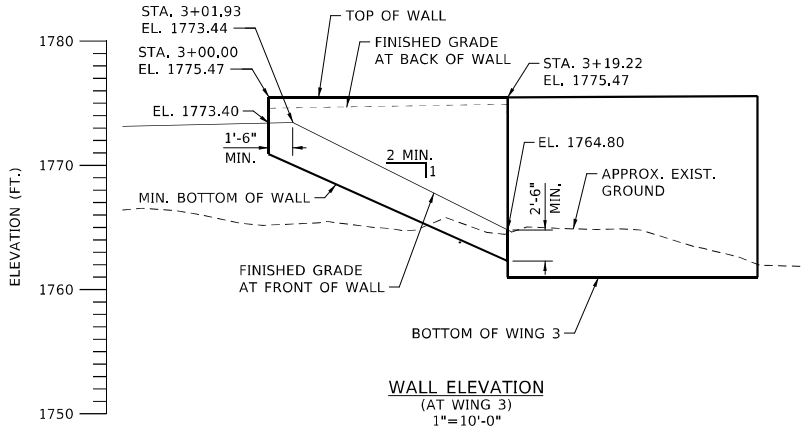
PROFESSIONAL ENGINEER
LICENSED
23269
3/23/2026
STATE OF IDAHO
ISAAC FINDLAY BECKER



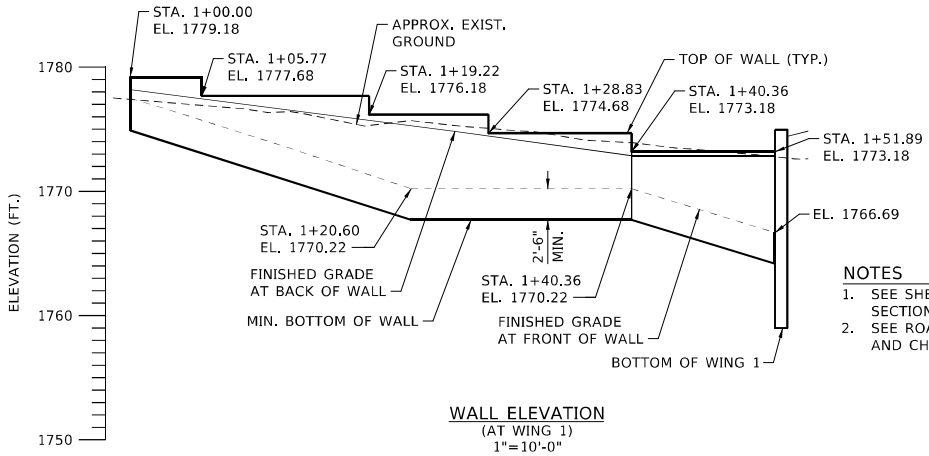
BLOCK WALL PLAN
(AT WING 3)
1"=10'-0"



BLOCK WALL PLAN
(AT WING 1)
1"=10'-0"



WALL ELEVATION
(AT WING 3)
1"=10'-0"



WALL ELEVATION
(AT WING 1)
1"=10'-0"

NOTES
1. SEE SHEET 15 FOR SECTION A-A, SECTION B-B AND OVERLAP DETAIL.
2. SEE ROADWAY PLANS FOR RIPRAP AND CHANNEL GRADING.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED M. PETERSEN
DETAILED A. MITCHELL
DWG. CHECKED A. RIGEB
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D14.dgn
DRAWING DATE: MARCH 2026

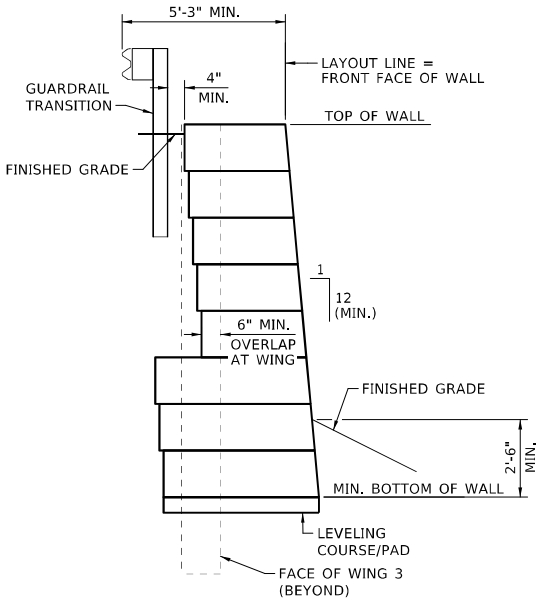
DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

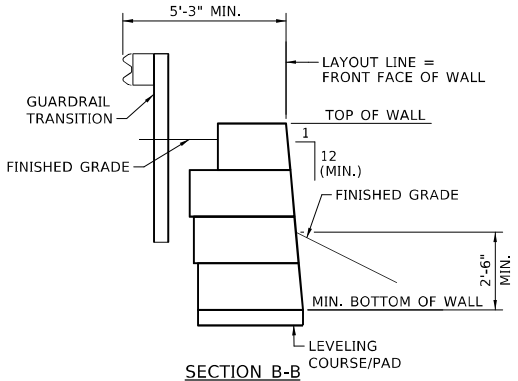
BLOCK WALL LAYOUT
79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS
BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 14 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



SECTION A-A
AND OVERLAP DETAIL
(AT WING 3)
¼"=1'-0"



SECTION B-B
(AT WING 1)
¼"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED
I. BECKER
DESIGN CHECKED
M. PETERSEN
DETAILED
A. MITCHELL
DWG. CHECKED
A. RIGEB
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME

29256 bdtl D15.dgn

DRAWING DATE:
MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

BLOCK WALL DETAILS

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

BRIDGE KEY NO.
29256

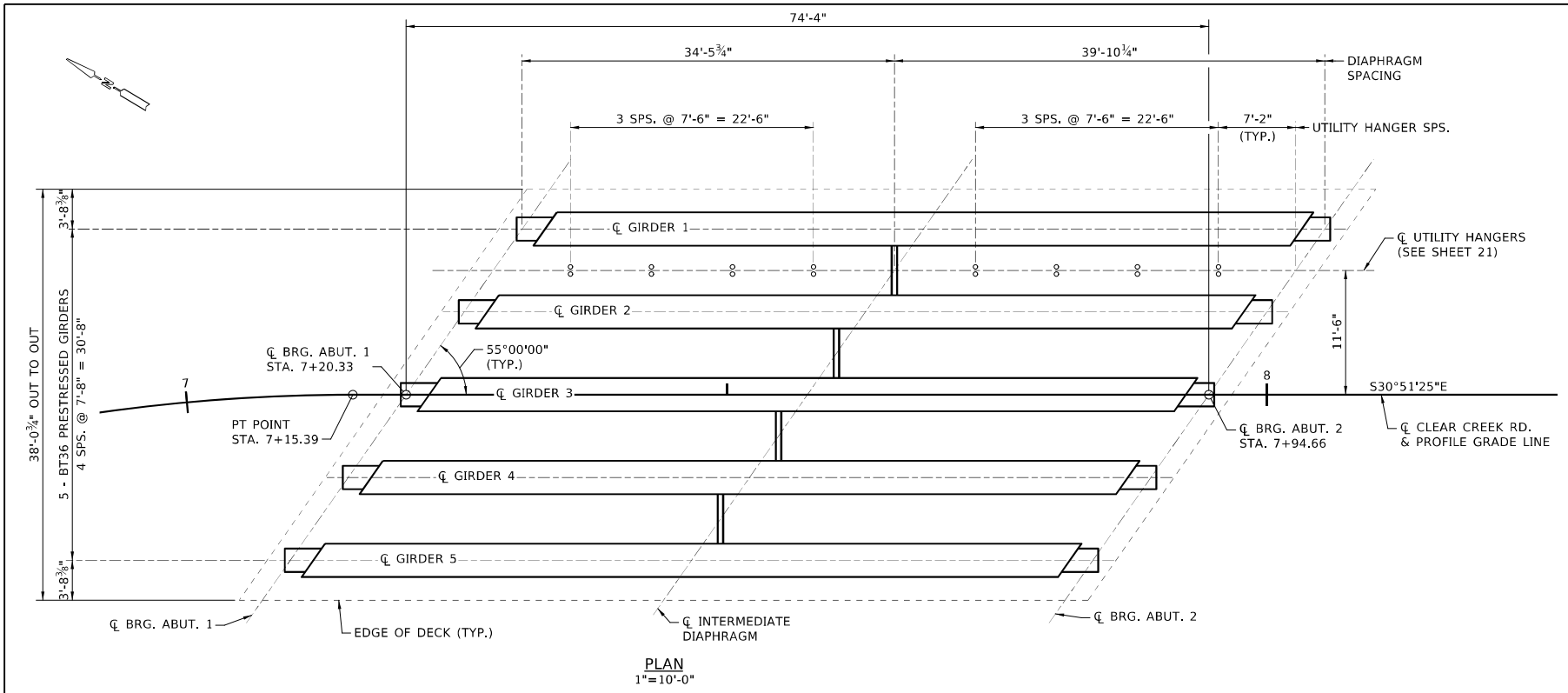
COUNTY
IDAHO

KEY NO.

BRIDGE DWG. NO.
18486

SHEET
15 OF 26

PROFESSIONAL ENGINEER
LICENSED
23269
3/23/2026
STATE OF IDAHO
ISAAC FINDLAY BECKER



PLAN
1"=10'-0"

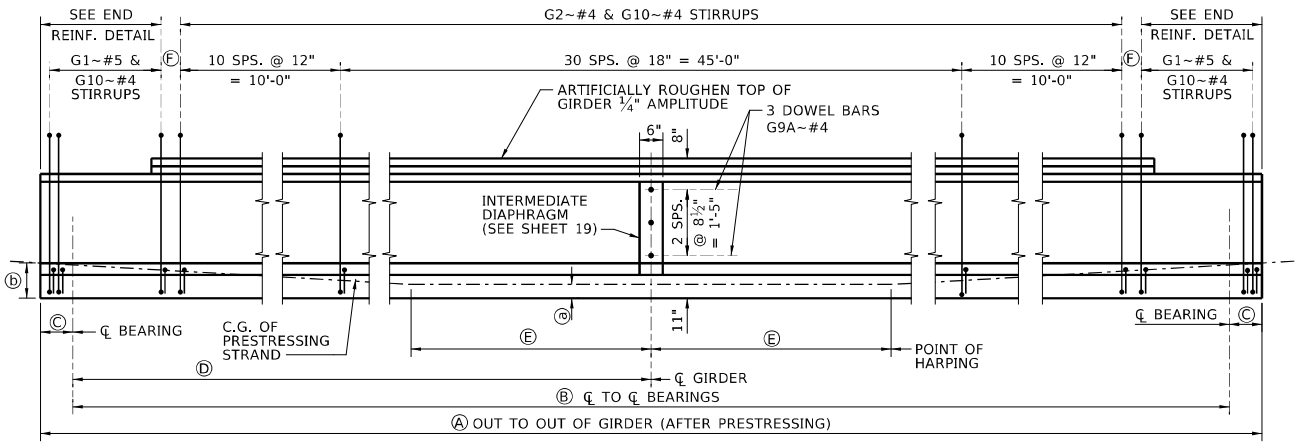
REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	FRAMING PLAN	BRIDGE PLANS
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256
				DESIGN CHECKED T. ZANONI	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO / KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D16.dgn				BRIDGE DWG. NO. 18486 / SHEET 16 OF 26
				DWG. CHECKED A. RIGEB	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.			
				CORRECTIONS					

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

PRESTRESSED GIRDER SCHEDULE

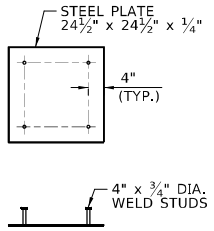
GIRDERS		PRESTRESS FORCE ~ KIPS		PRESTRESS LOSSES ~ KSI		CONCRETE STRENGTH ~ KSI		GIRDER DIMENSIONS								END DETAIL		C.G. OF STRAND	
NO.	LOCATION	INITIAL BEFORE LOSSES	FINAL AFTER LOSSES	IMMEDIATE LOSSES	FINAL TOTAL LOSSES	AT RELEASE f'ci	AT 28 DAYS f'c	(A)	(B)	(C) LEFT	(C) RIGHT	(D) LEFT	(D) RIGHT	(E)	(F)	LEFT	RIGHT	(b) GIRDER END	(a) MID SPAN
ALL	SPAN 1	1142	867	21.11	48.83	7.0	8.0	75'-4"	74'-4"	6"	6"	**	**	7'-5"	5"	TYPE B	TYPE B	9.08"	3.54"

** REFER TO FRAMING PLAN FOR INTERMEDIATE DIAPHRAGM SPACING.



GIRDER ELEVATION AND STIRRUP LAYOUT

⅜"=1'-0"



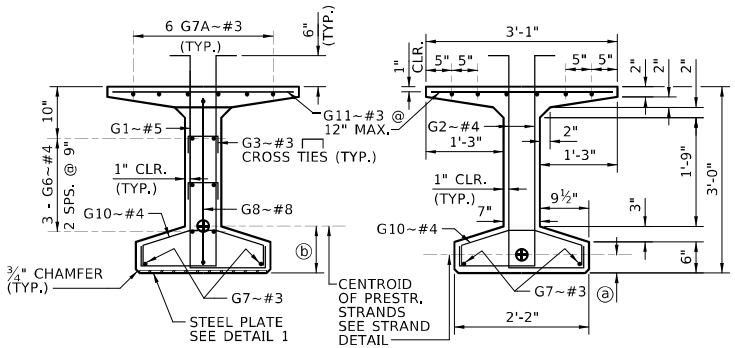
DETAIL 1

⅜"=1'-0"

REINFORCEMENT DIAGRAM

AASHTO M31 GRADE 60 TYPE S

MARK	SIZE	GRADE	SKETCH
G1*	#5	60	3'-5", 1'-2½", 4¼"
G2*	#4	60	
G3*	#3	60	5"
G4	#5	60	NOT USED
G4A	#5	60	NOT USED
G5	#6	60	5'-3"
G5A	#6	60	NOT USED
G6	#4	60	4'-9"
G7	#3	60	Ⓐ - 4"
G7A	#3	60	Ⓐ - 2 (BLOCKOUT + 2")
G8	#8	60	2'-8", 1'-3", 3'-6"
G9	#4	60	NOT USED
G9A	#4	60	2'-0", 8"
G10*	#4	60	4½", 10", 5", 3, 9½"
G11	#3	60	2'-11"

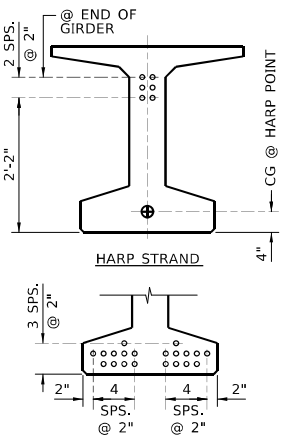


SECTION AT END OF GIRDER

½"=1'-0"

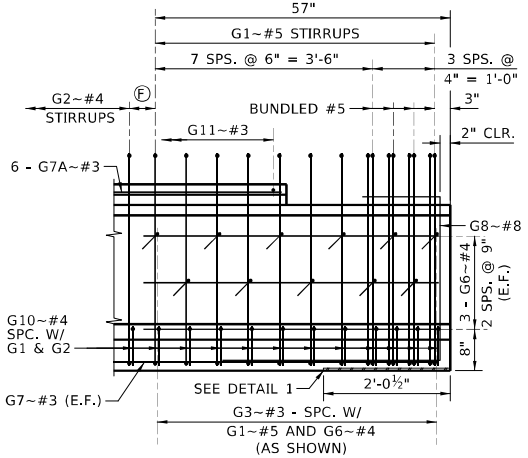
SECTION AT ℄ SPAN

½"=1'-0"



STRAND DETAIL

NTS



END REINFORCEMENT DETAIL

½"=1'-0"

NOTES

1. DIMENSIONS TO STIRRUPS AND DOWEL BARS ARE GIVEN AT ℄ OF GIRDER.
2. SEE PRESTRESSED GIRDER DETAILS SHEET FOR NOTES, DIAPHRAGM DOWEL DETAILS, END DETAILS AND DEFLECTION DATA.
3. BEND DETAILS IN ACCORDANCE WITH LATEST ACI STANDARD PRACTICE.

* STIRRUP AND TIE HOOK BEND DIMENSIONS. STIRRUPS AND TIES MUST HAVE A MINIMUM 1" COVER OUTSIDE OF BARS.

GIRDER WEIGHT ..... 523 LB/FT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED T. ZANONI
DETAILED A. MITCHELL
DWG. CHECKED A. RIGEB
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME

29256 bdtl D17.dgn

DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

36" BULB TEE PRESTRESSED GIRDER

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

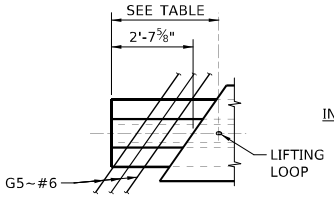
BRIDGE PLANS

BRIDGE KEY NO. 29256

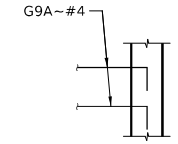
COUNTY IDAHO | KEY NO.

BRIDGE DWG. NO. 18486 | SHEET 17 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



PLAN

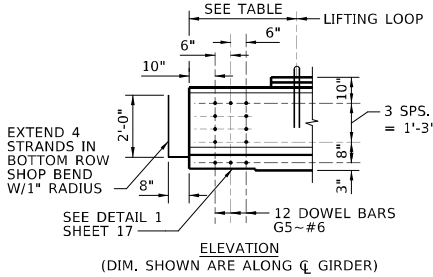


INTERMEDIATE DIAPHRAGM DOWEL DETAILS

¼"=1'-0"

	MIN.	MAX.
RELEASE	3'-0"	4'-0"
ERECTION	3'-0"	4'-0"

LIFT LOOP LOCATION

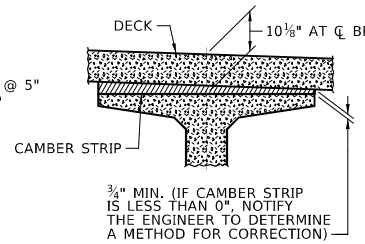


ELEVATION

(DIM. SHOWN ARE ALONG ℄ GIRDER)

TYPE B (FIXED) GIRDER END DETAILS

¼"=1'-0"

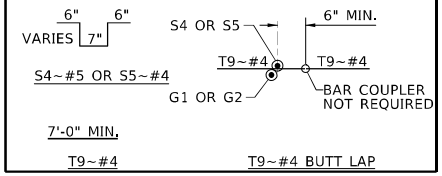


¾" MIN. (IF CAMBER STRIP IS LESS THAN 0", NOTIFY THE ENGINEER TO DETERMINE A METHOD FOR CORRECTION)

CAMBER STRIP DETAIL

NTS

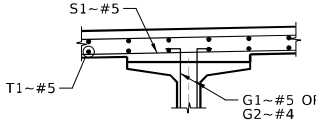
REINFORCEMENT DIAGRAM



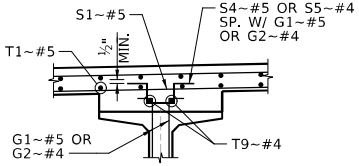
NOTE:

A. ADD HAT BARS S4, S5, AND T9 WHERE THE GIRDER STIRRUPS (G1 AND G2 BARS) DO NOT RISE ABOVE THE BOTTOM MAT OF REINFORCEMENT.

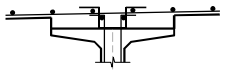
B. ADDITIONAL S4, S5, AND T9 BARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR METAL REINF. SCH. NO. 2.



TYPICAL HAUNCH DETAIL



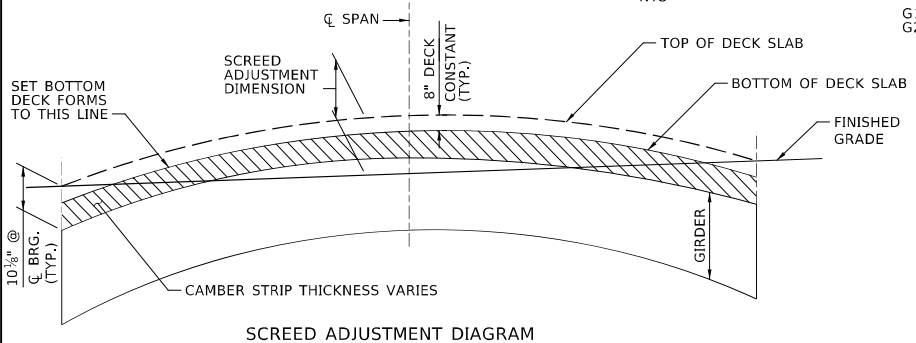
MODIFIED HAUNCH DETAIL



S4 & S5 ADJUSTMENT RANGE

HAT BAR DETAILS

¾"=1'-0"



SCREED ADJUSTMENT DIAGRAM

NTS

SCREED ADJUSTMENT DIMENSIONS AT ℄ OF GIRDERS												
LOCATION	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	SPAN (TENTH POINTS)
ALL GIRDERS	0	½	1	1⅜	1⅝	1⅝	1⅝	1⅜	1	½	0	SCREED ADJUSTMENT DIMENSION - INCHES

NOTES

DOWELS

1. PROVIDE DOWELS BY ANY OF THE FOLLOWING METHODS:
   a. PROVIDE COIL ROD INSERTS AND THREADED DOWELS, IF THE ULTIMATE STRENGTH OF THE INSERT IS IN ACCORDANCE WITH THE FOLLOWING:

BAR SIZE	MINIMUM ULTIMATE TENSION CAPACITY (LBS.)
#4	12,000
#5	18,600
#6	26,400

   b. ON INTERIOR GIRDERS ONLY, 1½"Ø HOLES MAY BE PROVIDED DURING FABRICATION AND DOWELS GROUTED IN PLACE AFTER DELIVERY TO THE JOB SITE.
2. PLACE ABUTMENT DIAPHRAGM DOWELS PARALLEL TO ℄ BEARING. PLACE INTERMEDIATE DIAPHRAGM DOWELS PERPENDICULAR TO ℄ GIRDERS.

SHOP DRAWINGS

3. PROVIDE SHOP DRAWING DETAILS THAT CONFORM TO CURRENT AASHTO SPECIFICATIONS. SHOW DETENSIONING SEQUENCE AND GIRDER LIFT POINTS ON SHOP DRAWINGS.
4. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 506.03 AND 105.02.
5. LATERALLY RESTRAIN THE GIRDER DURING TRANSPORTATION AND ERECTION. SHOW THE METHOD OF LATERAL RESTRAINT ON THE SHOP DRAWINGS.
6. PROVIDE DESIGN CALCULATIONS AND SHOW THE DETAILS ON THE SHOP DRAWINGS IF TEMPORARY STRANDS ARE ADDED IN THE TOP FLANGE FOR HANDLING, TRANSPORTATION, OR ERECTION. PROVIDE A REVISED DEFLECTION DATA TABLE AND SCREED ADJUSTMENT TABLE. APPROVED CHANGES AT THE CONTRACTOR'S EXPENSE.

MISCELLANEOUS GIRDER DETAILS

7. PROVIDE GIRDERS WITH ENDS THAT ARE PLUMB WHEN SET TO GRADE.
8. DIMENSION Ⓐ IN THE PRESTRESSED GIRDER SCHEDULE TABLE IS A HORIZONTAL DIMENSION. CORRECT THE FINISHED GIRDER LENGTH FOR GRADE AND PROVIDE AN ALLOWANCE FOR BEAM SHORTENING.
9. BLOCK OUT TOP FLANGE OF BULB TEE GIRDERS TO ALLOW PLACEMENT OF CONCRETE FOR THE END DIAPHRAGMS.
10. IF THE TOP FLANGE OVERHANG IS USED FOR SUPPORT OF DECK FORMS OR SCREEDS, APPROVAL OF THE METHOD TO BE USED IS REQUIRED BEFORE CASTING OF THE BEAMS. SHOW THE METHOD OF DECK FORM AND SCREED SUPPORT ON SHOP DRAWINGS, AND DESIGN THE REINFORCEMENT ACCORDINGLY.
11. GIRDER ERECTION/DECK PLACEMENT ASSUMED TO OCCUR WITHIN 60-90 DAYS AFTER GIRDER FABRICATION.
12. FABRICATE IN ACCORDANCE WITH 506.

STRAND

13. DESIGN BASED UPON 0.6" DIA. AASHTO M203 LOW RELAXATION STRAND.

GIRDER SHIPPING

14. DO NOT SHIP PRESTRESSED CONCRETE MEMBERS UNTIL TESTS ON CONCRETE CYLINDERS MANUFACTURED FROM THE SAME CONCRETE AND CURED UNDER THE SAME CONDITIONS AS THE GIRDERS INDICATE THAT THE CONCRETE OF THE PARTICULAR MEMBER HAS ATTAINED A COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED DESIGN 28 DAY COMPRESSIVE STRENGTH.

BASIS OF PAYMENT

15. PRESTRESSING CONCRETE MEMBERS IS INCIDENTAL TO THE PRECAST AND PRESTRESSED PAY ITEMS IN 502.

DEFLECTION DATA ~ INCHES							
LOCATION	ΔP PRESTRESS	ΔG GIRDER	∑Δ * ΔP + ΔG	Δ1 ** 1.95 ΔP + 1.65 ΔG	ΔS NON COMP. DL	ΔC COMP. DL	Δ2 ΔS + ΔC
ALL GIRDERS	3⅛↑	⅞↑	2¼↑	4⅝↑	1½↑	¼↑	1⅝↑

*ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT RELEASE

**ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT GIRDER ERECTION/DECK PLACEMENT

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED T. ZANONI
DETAILED A. MITCHELL
DWG. CHECKED A. RIGEB
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME

29256 bdtl D18.dgn

DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

PRESTRESSED GIRDER DETAILS

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

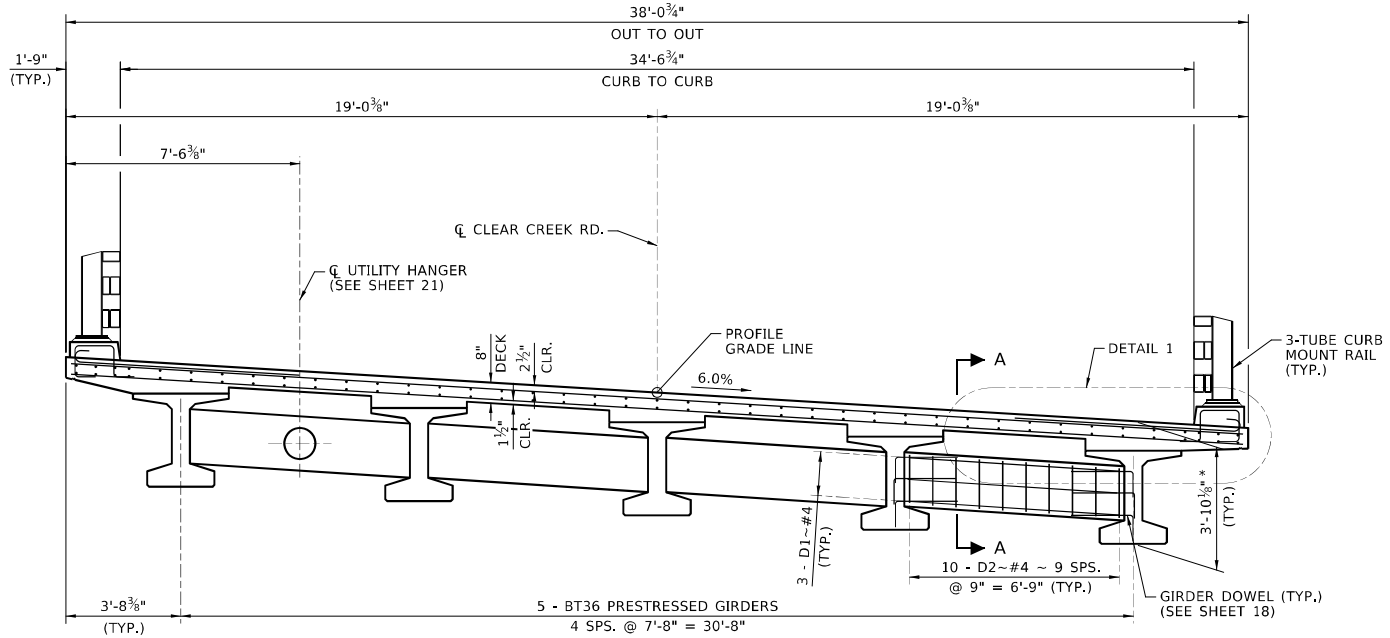
BRIDGE PLANS

BRIDGE KEY NO. 29256

COUNTY IDAHO | KEY NO.

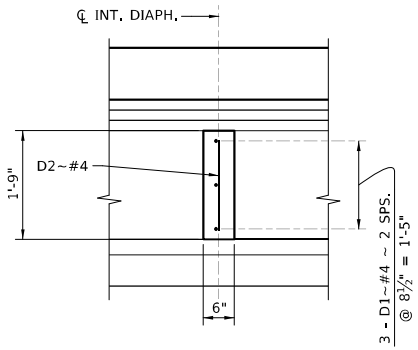
BRIDGE DWG. NO. 18486 | SHEET 18 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

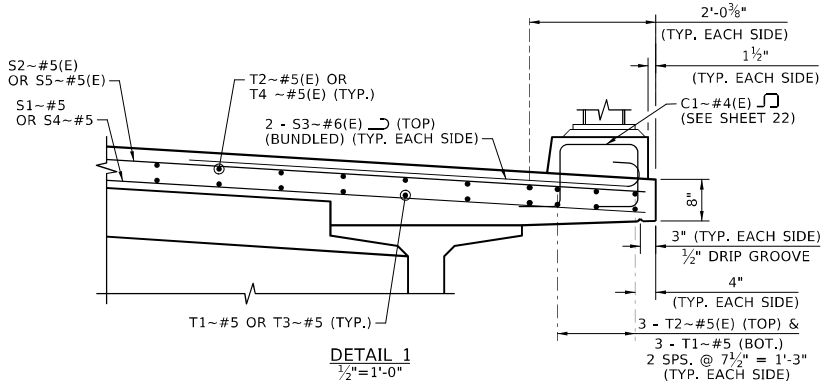


* MEASURED AT ℄ BRG. ABUTMENT

DECK TYPICAL SECTION
¼"=1'-0"



SECTION A-A
INTERMEDIATE DIAPHRAGM
½"=1'-0"



DETAIL 1
½"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED A. RIGEB
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME
29256 bdtl D19.dgn

DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

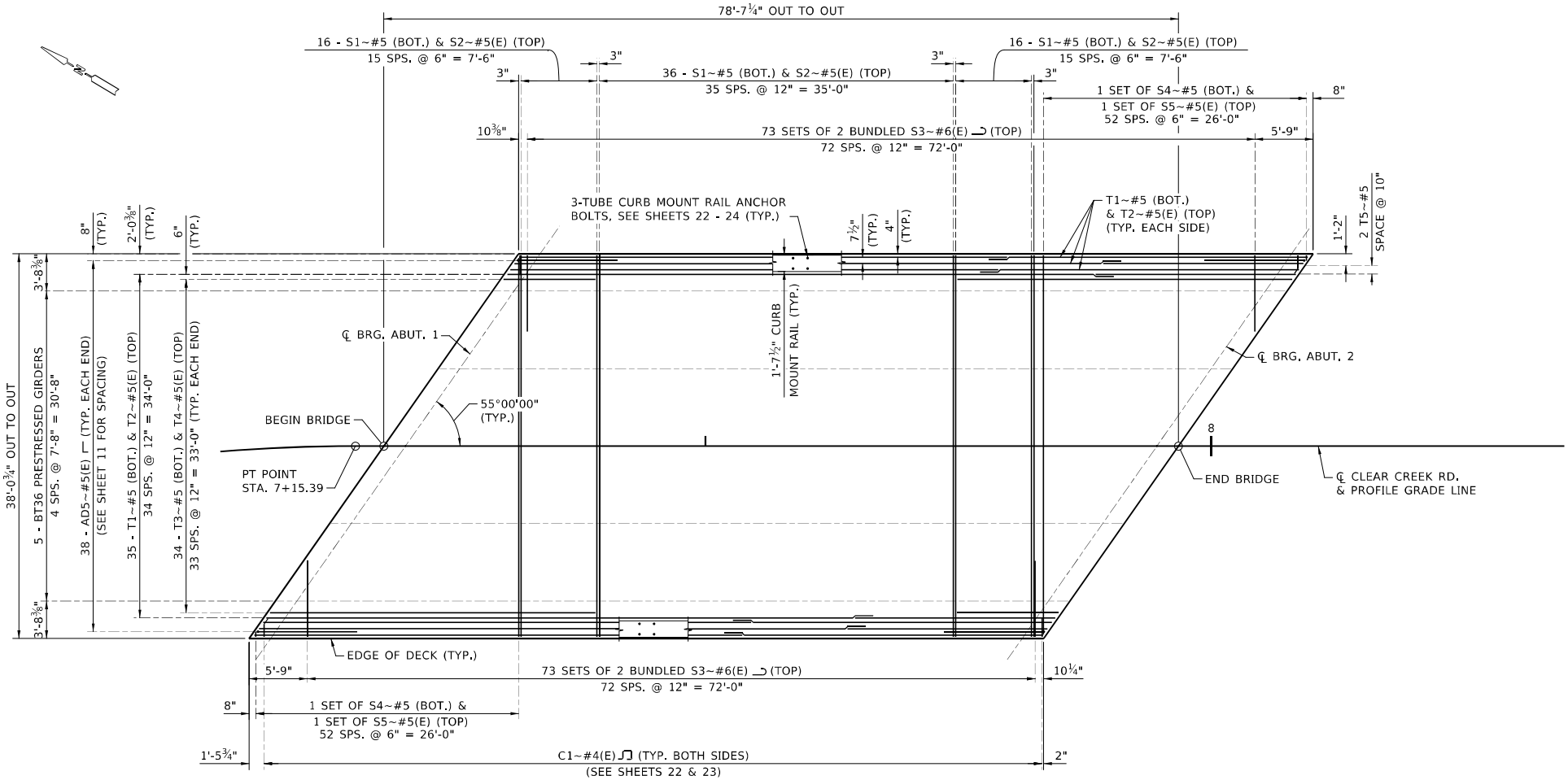
DECK TYPICAL SECTION & DETAILS

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

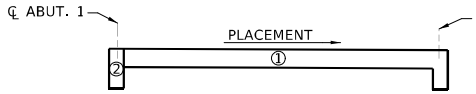
BRIDGE PLANS

BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 19 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



DECK REINFORCEMENT PLAN
1"=10'-0"



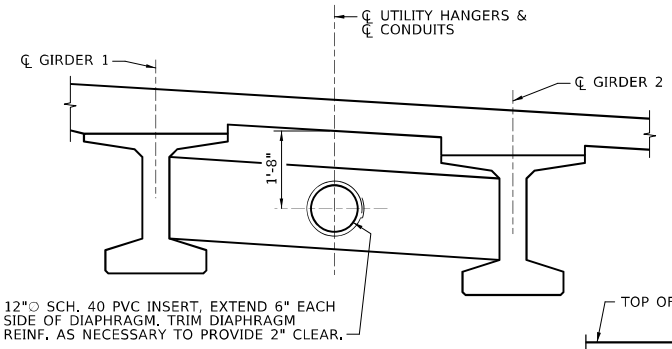
DECK PLACING SEQUENCE
NTS

NOTE:
1. AREAS MARKED ① ARE TO BE PLACED BEFORE AREAS MARKED ②.
2. PLACEMENT OF AREAS MARKED ② ARE TO NOT COMMENCE UNTIL AT LEAST 24 HOURS HAVE ELAPSED AFTER COMPLETION OF PLACEMENT OF AREAS MARKED ①.

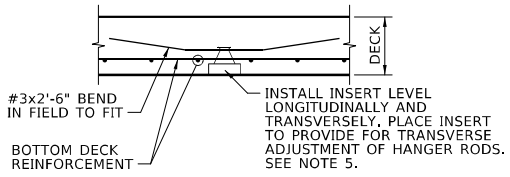
NOTES
1. SEE SHEET 16 FOR UTILITY LOCATIONS. SEE SHEET 21 FOR REINFORCEMENT DETAILS AT HANGERS.
2. PROVIDE 1'-9" LAP ON DECK REINFORCING AND STAGGER LAP SPLICES ON ADJACENT BARS, UNLESS NOTED OTHERWISE.
3. CONCRETE CURB REINFORCEMENT TO BE PLACED WITH DECK REINFORCEMENT NOT SHOWN, SEE SHEETS 22 AND 23.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	DECK PLAN & REINFORCEMENT DETAILS	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED A. RIGEB	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 bdtl D20.dgn				BRIDGE DWG. NO. 18486	SHEET 20 OF 26
				DWG. CHECKED M. PETERSEN	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.				
				CORRECTIONS						

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



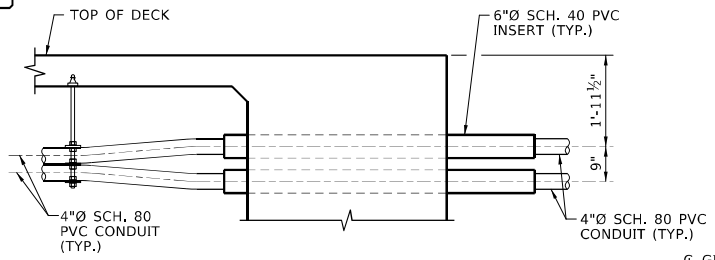
INTERMEDIATE DIAPHRAGM DETAIL
⅜"=1'-0"



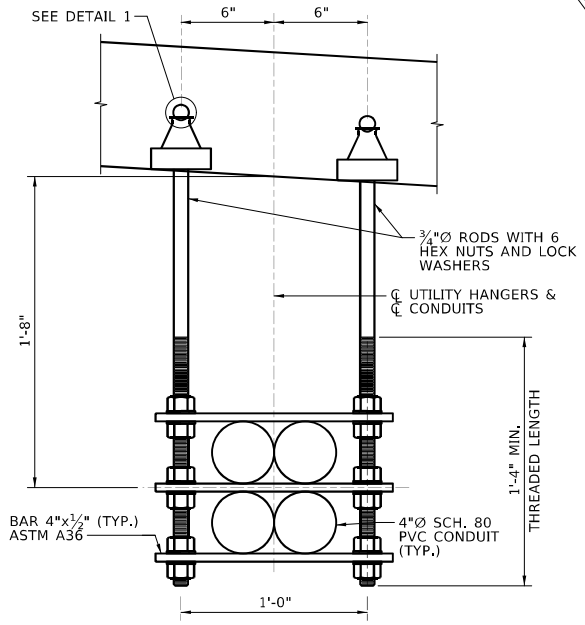
DETAIL 1
NTS

NOTES

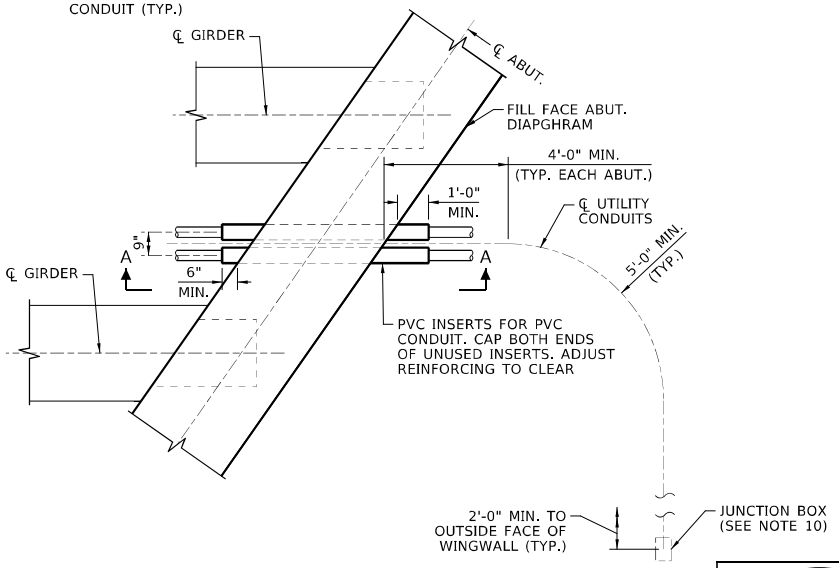
1. INSTALL A PULL ROPE IN UNUSED CONDUIT AND CAP BOTH ENDS.
2. PROVIDE ANCHOR RODS IN ACCORDANCE WITH ASTM F1554 GRADE 36 AND GALVANIZED IN ACCORDANCE WITH ASTM A153.
3. PROVIDE NUTS IN ACCORDANCE WITH ASTM A563 GRADE A.
4. GALVANIZE STEEL MATERIALS AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR ASTM A153.
5. PROVIDE ZINC PLATED OR GALVANIZED CONCRETE INSERTS IN ACCORDANCE WITH ANVIL 282 UNIVERSAL CONCRETE INSERT, UNISTRUT P3246 CONCRETE INSERT, ANVIL IRON CROSS FIG. 286 CONCRETE INSERT, OR APPROVED EQUAL.
6. EXTEND PVC SLEEVES 6" BEYOND FRONT FACE OF ABUTMENTS AND 12" BEYOND FILL FACE OF ABUTMENTS. CAP BOTH ENDS OF UNUSED SLEEVES.
7. FIELD ADJUST ABUTMENT DIAPHRAGM REINFORCEMENT TO CLEAR SLEEVES.
8. FILL ANNULAR VOID BETWEEN 6"Ø PVC SLEEVES AND 4"Ø PVC CONDUIT WITH GROUT FOLLOWING INSTALLATION OF CONDUITS.
9. COST OF FURNISHING AND INSTALLING CONCRETE INSERTS, INSERT REINFORCEMENT, UTILITY HANGER ASSEMBLIES, 4"Ø SCH. 80 PVC EXPANSION COUPLERS, 6"∅ PVC SLEEVES, 4"Ø SCH. 80 PVC CONDUITS, AND GROUT ARE INCLUDED IN PAY ITEM "586-005A UTILITY CONDUIT".
10. SEE UTILITY PLANS FOR PROPOSED UTILITIES. DAYLIGHT UNUSED UTILITY CONDUITS TO PROPOSED JUNCTION BOX. CAP ENDS OF UNUSED UTILITY CONDUITS.
11. SEE SHEET 16 FOR UTILITY HANGER SPACING.



SECTION A-A
⅜"=1'-0"



UTILITY HANGER DETAIL
1½"=1'-0"



PARTIAL END DIAPHRAGM PLAN
(ABUT. 2 SHOWN, ABUT. 1 SIMILAR)
¼"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED N. KUHTA
DETAILED A. MITCHELL
DWG. CHECKED N. KUHTA
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D21.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

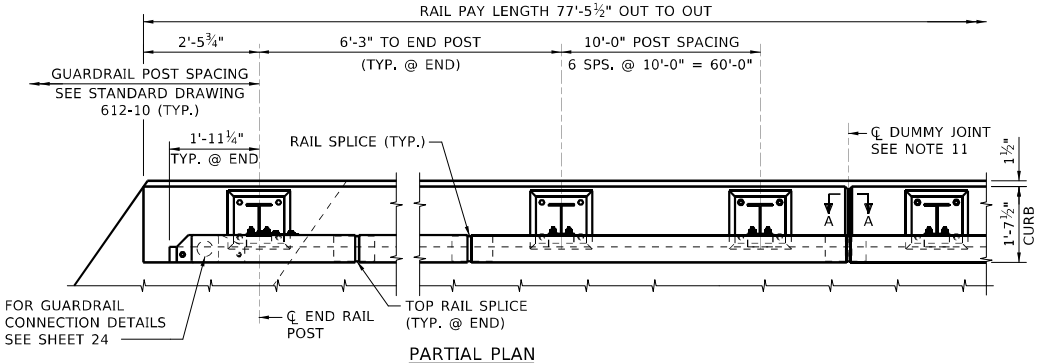
ENGLISH
PROJECT NO.

UTILITY LAYOUT & DETAILS
79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

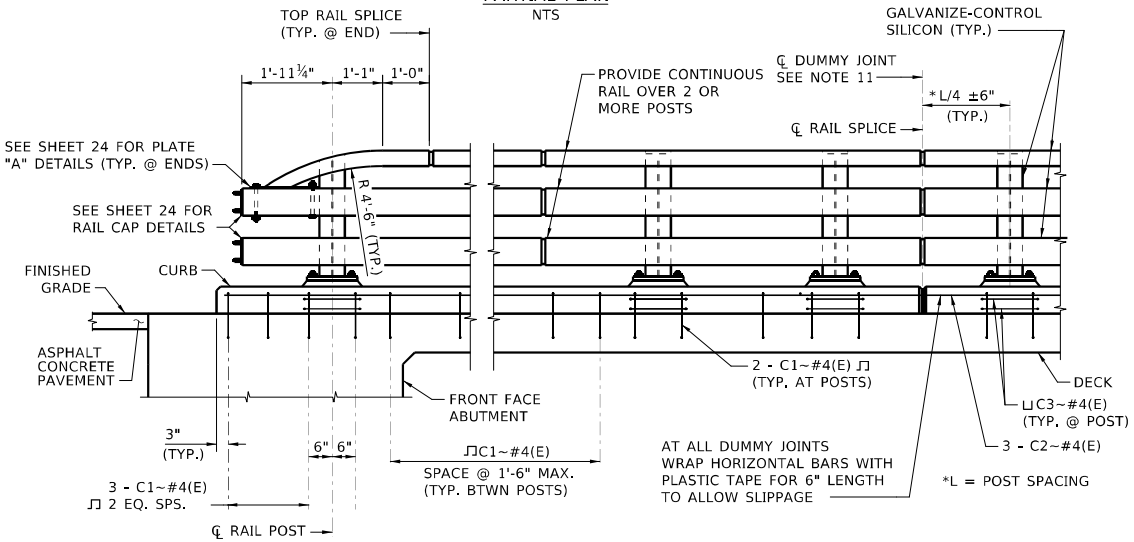
BRIDGE PLANS

BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 21 OF 26

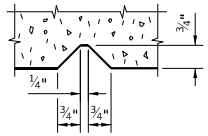
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



PARTIAL PLAN
NTS



PARTIAL ELEVATION
NTS



SECTION A-A ~ DUMMY JOINT
(TYP. @ BOTH SIDES AND TOP OF CURB)
3"=1'-0"

NOTES

MATERIALS

1. PROVIDE STRUCTURAL STEEL TUBING IN ACCORDANCE WITH ASTM A500 GRADE B, OR ASTM A501 STEEL.
2. PROVIDE STRUCTURAL STEEL POSTS, RAIL SPLICES, AND BASE PLATES IN ACCORDANCE WITH ASTM A709 GRADE 50.
3. PROVIDE ANCHOR BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH ASTM F1554 GRADE 105. PROVIDE H.S. BOLTS IN ACCORDANCE WITH ASTM F3125 GRADE A325.
4. PROVIDE CLASS 40AF CONCRETE.
5. PROVIDE EPOXY-COATED GRADE 60 TYPE S REINFORCEMENT IN ACCORDANCE WITH 708.02.
6. PROVIDE TYPE B CLASS 1 GROUT IN ACCORDANCE WITH 705.02.

GALVANIZING

7. GALVANIZE STRUCTURAL STEEL PARTS, RAILING, AND SLEEVES AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A153. THOROUGHLY CLEAN WELDED AREAS BEFORE GALVANIZING TO REMOVE SLAG OR OTHER MATERIAL THAT WOULD INTERFERE WITH THE ADHERENCE OF THE ZINC. PROVIDE GALVANIZED SURFACES FREE OF FINS, ABRASIONS, ROUGH OR SHARP EDGES, OR OTHER SURFACE DEFECTS. REPAIR DAMAGED COATINGS IN ACCORDANCE WITH ASTM A780 AND ASTM A123.
8. GALVANIZE-CONTROL SILICON MEANS SILICON CONTENT OF THE BASE METAL WILL BE IN THE RANGE OF 0% TO 0.06% (PREFERABLY 0% TO 0.04%) OR 0.15% TO 0.28% (PREFERABLY 0.15% TO 0.25%)

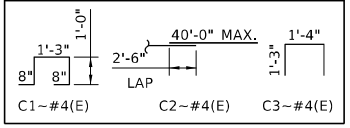
FABRICATION AND ERECTION

9. FABRICATE AND ERECT THE RAILING IN ACCORDANCE WITH THE CURRENT EDITION OF AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES AND ITD STANDARD SPECIFICATIONS.
10. CONSTRUCT RAILING WITH TOP OF POST 3'-6" ABOVE FINISHED GRADE. ADJUST HEIGHT OF CURB TO COMPENSATE FOR THE CAMBER AND LOAD DEFLECTION OF THE SUPERSTRUCTURE. CALCULATE THE AMOUNT OF ADJUSTMENT FOR APPROVAL.
11. SPACE CURB DUMMY JOINTS AT ALL RAIL SPLICE LOCATIONS, EXPANSION JOINTS, AND AT THE ABUTMENT/APPROACH SLAB NOTCH ON INTEGRAL ABUTMENTS. SPACE INTERMEDIATE CURB DUMMY JOINTS UNIFORMLY THE LENGTH OF THE BRIDGE WITH SPACING NOT LESS THAN 6'-0" NOR GREATER THAN 12'-0".
12. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 504.01 F AND 105.02.
13. CONSTRUCT RAILING CONFORMING TO THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE STRUCTURE. INSTALL POSTS NORMAL TO GRADE IN THE LONGITUDINAL DIRECTION AND VERTICAL IN THE TRANSVERSE DIRECTION.
14. SAW OR MILL BASE PLATES AND END TUBE SECTIONS AT SPLICES. PROVIDE CUT ENDS THAT ARE TRUE, SMOOTH AND FREE FROM BURRS OR RAGGED EDGES.
15. PROVIDE VENT HOLES FOR GALVANIZING AS REQUIRED AND SHOW ON THE SHOP DRAWINGS. DRILL VENT HOLES AWAY FROM TRAFFIC FACE AND NOT ON THE TOP SURFACE OF THE HORIZONTAL TUBES.
16. PROVIDE EXPANSION JOINT OR SPLICE JOINT IN RAIL AS REQUIRED.
17. ROUND OR CHAMFER EXPOSED EDGES OF STEEL COMPONENTS 1/16" BY GRINDING BEFORE GALVANIZING.

METHOD OF MEASUREMENT

18. PAYMENT FOR "3-TUBE CURB MOUNT RAIL" IS PAY ITEM 504-050A. THE COST OF CONCRETE AND EPOXY-COATED REINFORCEMENT IS INCIDENTAL TO PAY ITEM 504-050A.

EPOXY COATED REINFORCEMENT



APPROXIMATE QUANTITIES (10' POSTS SPACING)

CONCRETE	0.92 CF/LF
STRUCTURAL STEEL	66 LB/LF
EPOXY REINFORCEMENT	5 LB/LF

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED N. KUHTA
DETAILED A. MITCHELL
DWG. CHECKED N. KUHTA
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D22.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

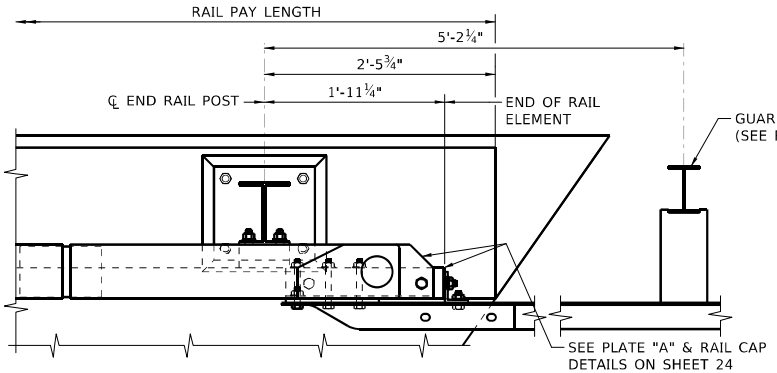
3-TUBE CURB MOUNT RAIL (1 OF 3)

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

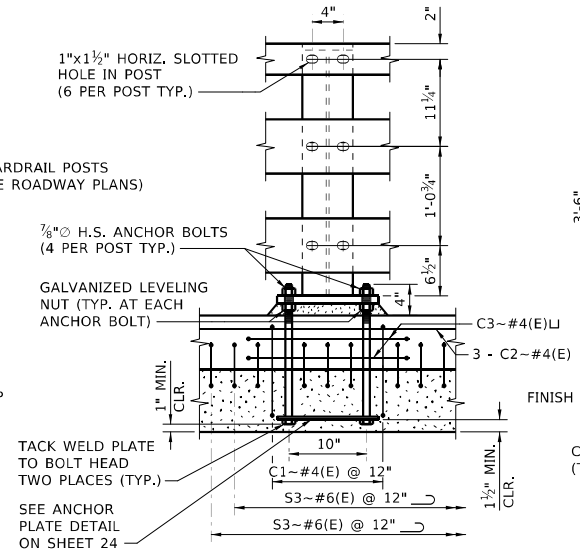
BRIDGE PLANS

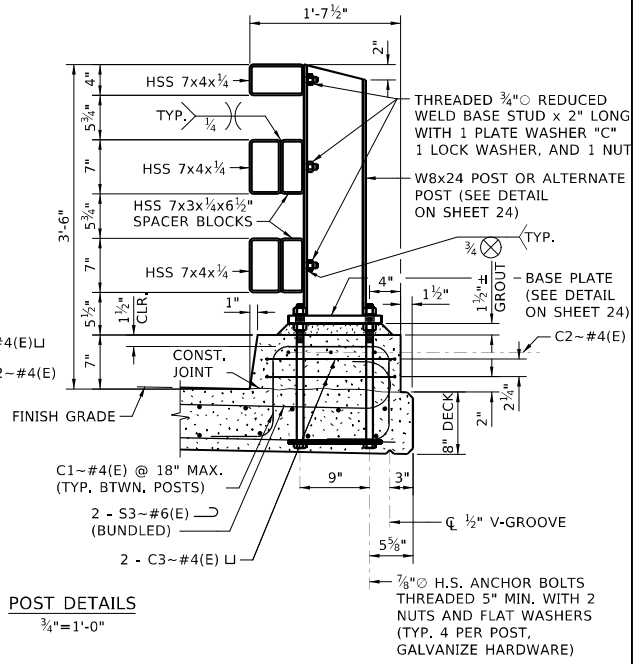
BRIDGE KEY NO. 29256	
COUNTY IDAHO	KEY NO.
BRIDGE DWG. NO. 18486	SHEET 22 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

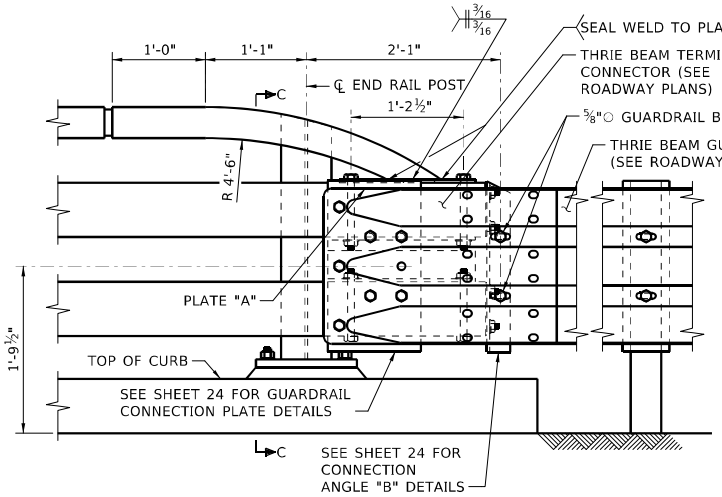


PLAN
¾"=1'-0"

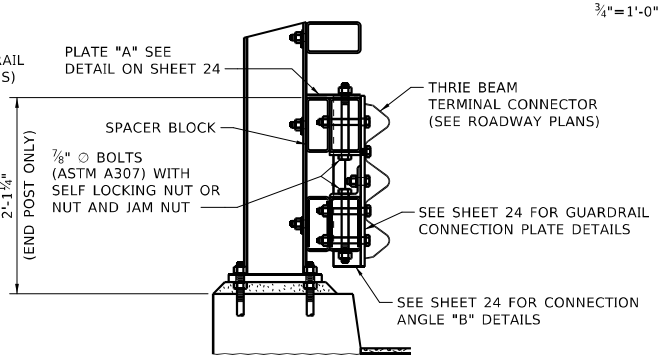




POST DETAILS
¾"=1'-0"



ELEVATION
¾"=1'-0"

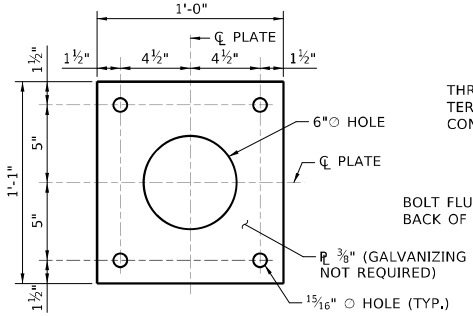


SECTION C-C
¾"=1'-0"

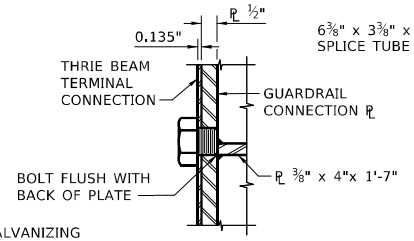
TRANSITION CONNECTION

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		ENGLISH	3-TUBE CURB MOUNT RAIL (2 OF 3)	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	I. BECKER					BRIDGE KEY NO. 29256	
				DESIGN CHECKED N. KUHTA	CADD FILE NAME		PROJECT NO.	79' PRESTRESSED CONCRETE BRIDGE CLEAR CREEK RD. OVER CLEAR CREEK STA. 7+57.50	COUNTY IDAHO	KEY NO.
				DETAILED A. MITCHELL	29256 tdtl D23.dgn				BRIDGE DWG. NO. 18486	SHEET 23 OF 26
				DWG. CHECKED N. KUHTA	DRAWING DATE: MARCH 2026	DAVID EVANS AND ASSOCIATES INC.				
				CORRECTIONS						

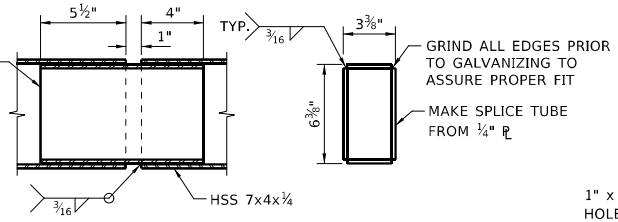
PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER



ANCHOR PLATE DETAIL
(ASTM A709 GRADE 36)
1½"=1'-0"



DETAIL 1
3"=1'-0"



RAIL SPLICE DETAILS
1½"=1'-0"

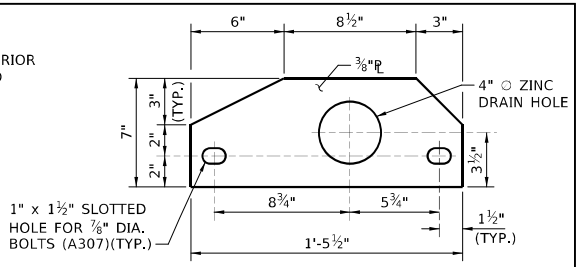
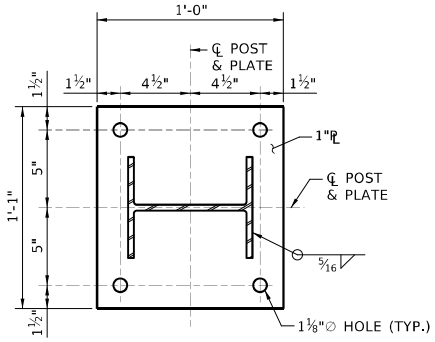


PLATE "A"
(ASTM A709 GRADE 36)
1½"=1'-0"



BASE PLATE DETAIL
1½"=1'-0"

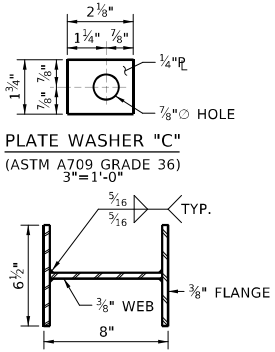
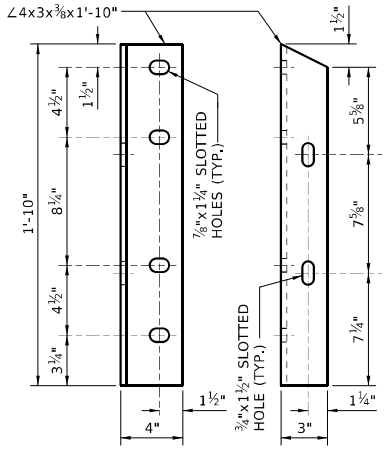
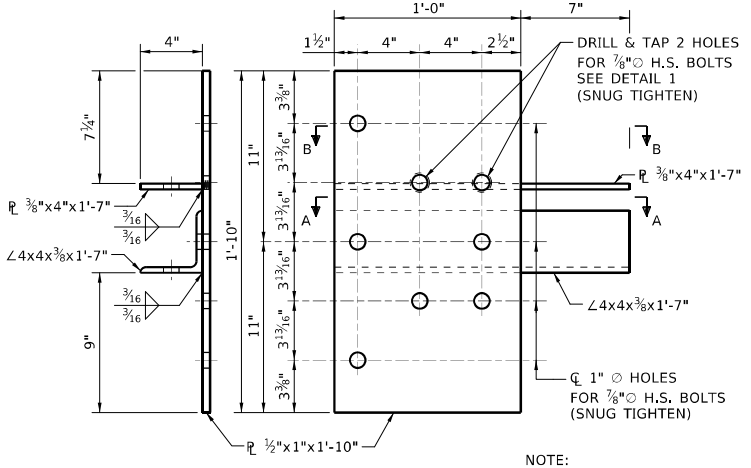


PLATE WASHER "C"
(ASTM A709 GRADE 36)
3"=1'-0"

ALTERNATE POST
1½"=1'-0"

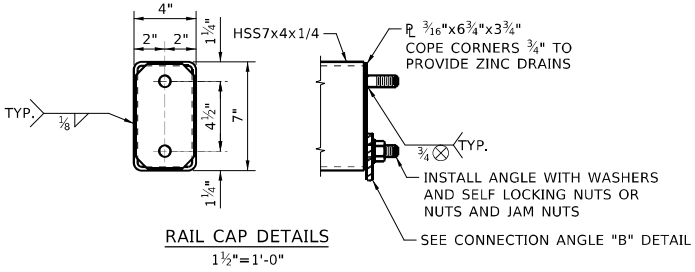


CONNECTION ANGLE "B"
(ASTM A709 GRADE 36)
1½"=1'-0"

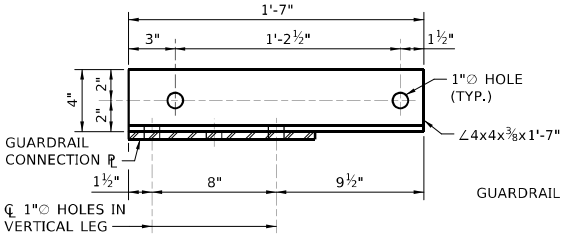


GUARDRAIL CONNECTION PLATE
(ASTM A709 GRADE 36)
1½"=1'-0"

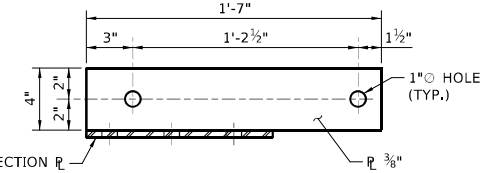
NOTE:
VERIFY ALL BOLT HOLE LOCATIONS MATCH THRIE BEAM TERMINAL CONNECTOR



RAIL CAP DETAILS
1½"=1'-0"



SECTION A-A
1½"=1'-0"



SECTION B-B
1½"=1'-0"

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED I. BECKER
DESIGN CHECKED N. KUHTA
DETAILED A. MITCHELL
DWG. CHECKED N. KUHTA
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D24.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

3-TUBE CURB MOUNT RAIL (3 OF 3)
79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

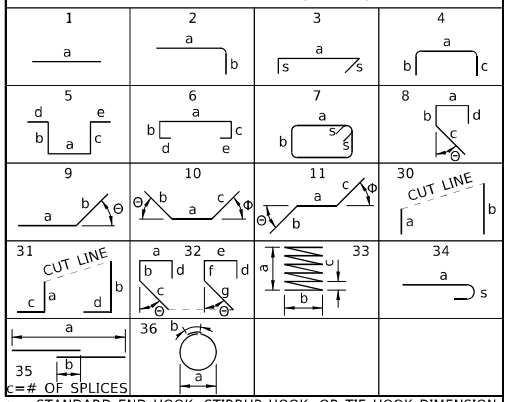
BRIDGE PLANS
BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 24 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

SUBSTRUCTURE

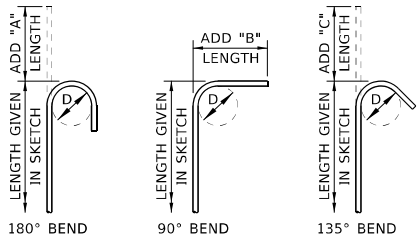
MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	BEND TYPE	BARS/ SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE θ	ANGLE Φ	TOTAL LENGTH
A1	ABUT. 1	8		4	S	30		47'-0"	50'-6"						195'-0"
A2	ABUT. 1	6		34	S	30		47'-0"	50'-6"						1657'-6"
* A3	ABUT. 1	5		118	S	4		3'-11"	6'-0"	6'-0"					1878'-2"
*A3A	ABUT. 1	5		12	S	2		6'-0"	10"						82'-0"
* A4	ABUT. 1	4		519	S	3		3'-11"							2422'-0"
A5	ABUT. 1	8		4	S	30		47'-0"	50'-6"						195'-0"
A6	ABUT. 1	7		66	S	1		12'-0"							792'-0"
A7	ABUT. 1	7		48	S	1		12'-0"							576'-0"
A8	ABUT1/WING1	5		6	S	1		15'-9"							94'-6"
A8A	ABUT1/WING2	5		4	S	1		12'-8"							50'-8"
A9	ABUT. 1 & 2	6		8	S	2		10'-1"	12"						88'-8"
A9A	ABUT. 1 & 2	6		8	S	2		19'-5"	12"						163'-4"
A9B	ABUT. 1 & 2	6		8	S	2		28'-9"	12"						238'-0"
A9C	ABUT. 1 & 2	6		8	S	2		38'-1"	12"						312'-8"
*A10	ABUT. 1 & 2	4		82	S	4		3'-11"	2'-6"	2'-6"					731'-2"
A1	ABUT. 2	8		4	S	1		48'-5"							193'-8"
A2	ABUT. 2	6		32	S	1		48'-5"							1549'-4"
* A3	ABUT. 2	5		122	S	4		3'-11"	6'-0"	6'-0"					1941'-10"
*A3A	ABUT. 2	5		12	S	2		6'-0"	10"						82'-0"
* A4	ABUT. 2	4		500	S	3		3'-11"							2333'-4"
A5	ABUT. 2	8		4	S	1		48'-5"							193'-8"
A6	ABUT. 2	7		68	S	1		10'-11"							742'-4"
A7	ABUT. 2	7		47	S	1		10'-11"							513'-1"
A8	ABUT 2/WING3	5		4	S	1		14'-0"							56'-0"
A8A	ABUT 2/WING4	5		5	S	1		11'-10"							59'-2"
W4	WING 1	5		17	S	1		14'-10"							252'-2"
W5	WING 1	8		32	S	1		14'-4"							458'-8"
W6	WING 1	4		20	S	1		15'-6"							310'-0"
W9	WING 1	6		16	S	10		1'-4"	2'-6"	2'-6"			90°	35°	101'-4"
W1	WING 2	5		9	S	1		21'-1"							189'-9"
W1A	WING 2	5		2	S	9		17'-9"	3'-8"				11.83°		42'-10"
W2	WING 2	8		18	S	2		19'-10"	1'-6"						384'-0"
W3	WING 2	4		36	S	30		9'-1"	12'-8"						391'-6"
W7	WING 2	5		14	S	30		7'-4"	21'-1"						198'-11"
W8	WING 2	6		9	S	9		2'-9"	3'-0"				28°		51'-9"
W1	WING 3	5		15	S	1		19'-9"							296'-3"
W10	WING 3	8		29	S	2		20'-0"	1'-4"						618'-8"
W3	WING 3	4		34	S	1		14'-0"							476'-0"
W5	WING 3	6		29	S	10		2'-8"	2'-6"	2'-6"			27.5°	27.5°	222'-4"
W1	WING 4	5		13	S	1		21'-10"							283'-10"
W2	WING 4	8		25	S	1		21'-4"							533'-4"
W4	WING 4	4		34	S	1		11'-9"							399'-6"
W6	WING 4	6		13	S	10		1'-7"	2'-6"	2'-6"			90°	35°	85'-7"

BAR BEND DIAGRAMS



s = STANDARD END HOOK, STIRRUP HOOK, OR TIE HOOK DIMENSION

BEND DETAILS



"L" = LENGTH GIVEN IN SKETCH

SUBSTRUCTURE BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#3		0.376	
#4	7,063'-6"	0.668	4,718
#5	5,508'-1"	1.043	5,745
#6	4,470'-6"	1.502	6,715
#7	2,623'-5"	2.044	5,362
#8	2,772'-0"	2.670	7,401
#9		3.400	
#10		4.303	
#11		5.313	
#14		7.650	
#18		13.600	
TOTAL WEIGHT			29,942

STANDARD END HOOK DIMENSIONS

BAR SIZE	ALL GRADES D	A	B
#3	2¼"	5"	6"
#4	3"	6"	8"
#5	3¾"	7"	10"
#6	4½"	8"	1'-0"
#7	5¼"	10"	1'-2"
#8	6"	11"	1'-4"
#9	9½"	1'-3"	1'-7"
#10	10¾"	1'-5"	1'-10"
#11	1'-0"	1'-7"	2'-0"
#14	1'-6¼"	2'-3"	2'-7"
#18	2'-0"	3'-0"	3'-5"

STIRRUP AND TIE HOOK DIMENSIONS

ALL GRADES D	B	C
1½"	4"	4"
2"	4½"	4½"
2½"	6"	5½"
4½"	1'-0"	8"
5¼"	1'-2"	9"
6"	1'-4"	10½"

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED I. BECKER
DESIGN CHECKED M. PETERSEN
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D25.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH
PROJECT NO.

METAL REINFORCEMENT (1 OF 2)

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS
BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 25 OF 26

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

SUPERSTRUCTURE

MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	BEND TYPE	BARS/ SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE θ	ANGLE Φ	TOTAL LENGTH
AD1	ABUT 1 DIAPH	5		16	S	1		8'-2"							130'-8"
AD2	ABUT 1 DIAPH	5		8	S	1		3'-9"							30'-0"
AD3	ABUT 1 DIAPH	5		4	S	1		49'-3"							197'-0"
AD4	ABUT 1 DIAPH	5	E	66	S	2		3'-11"	3'-0"						456'-6"
AD5	ABUT 1 DIAPH	5	E	38	S	2		10'-0"	3'-6"						513'-0"
AD6	ABUT 1 DIAPH	8		4	S	30		47'-3"	50'-9"						196'-0"
AD1	ABUT 2 DIAPH	5		16	S	1		8'-2"							130'-8"
AD2	ABUT 2 DIAPH	5		8	S	1		3'-9"							30'-0"
AD3	ABUT 2 DIAPH	5		4	S	1		48'-8"							194'-8"
AD4	ABUT 2 DIAPH	5	E	68	S	2		3'-11"	3'-0"						470'-4"
AD5	ABUT 2 DIAPH	5	E	38	S	2		10'-0"	3'-6"						513'-0"
AD6	ABUT 2 DIAPH	8		4	S	1		48'-8"							194'-8"
S1	DECK	5		68	S	1		37'-8"							2561'-4"
S2	DECK	5	E	68	S	1		37'-8"							2561'-4"
S3	DECK	6	E	292	S	34		7'-4"							2336'-0"
S4	DECK	5		106	S	30	106	1'-0"	37'-8"						2049'-4"
S5	DECK	5	E	106	S	30	106	1'-0"	37'-8"						2049'-4"
T1	DECK	5		41	S	35		78'-3"	1'-9"	1					3280'-0"
T2	DECK	5	E	41	S	35		78'-3"	1'-9"	1					3280'-0"
T3	DECK	5		68	S	30		9'-0"	32'-2"						1399'-8"
T4	DECK	5	E	68	S	30		9'-0"	32'-2"						1399'-8"
D1	INT. DIAPH.	4		12	S	1		6'-9"							81'-0"
D2	INT. DIAPH.	4		40	S	1		1'-5"							56'-8"

SUPERSTRUCTURE BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#4	137'-8"	0.668	92
#5	10,003'-4"	1.043	10,433
#6		1.502	
#8	390'-8"	2.044	1,043
	TOTAL WEIGHT		11,568

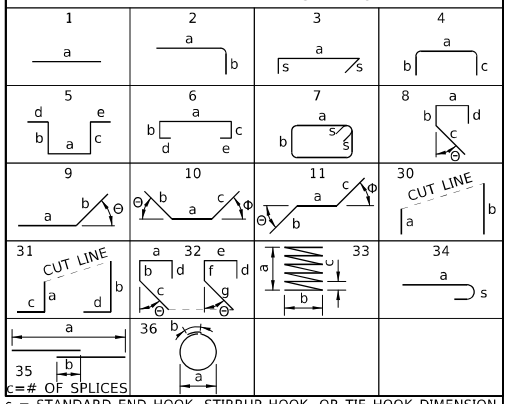
EPOXY COATED BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#4		0.668	
#5	11,243'-2"	1.043	11,727
#6	2,336'-0"	1.502	3,509
#8		2.670	
	TOTAL WEIGHT		15,235

REINFORCEMENT NOTES

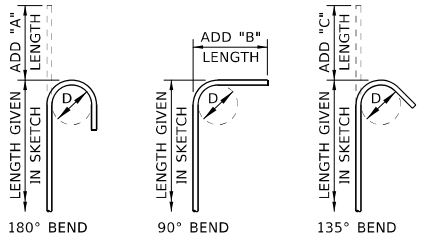
1. PROVIDE BEND DETAILS IN ACCORDANCE WITH THE LATEST ACI STANDARD PRACTICE AND AASHTO SPECIFICATIONS.
2. DIMENSIONS SHOWN IN THE "BAR BEND DIAGRAMS" ARE OUT TO OUT OF BEND POINTS, HOOKS, OR BAR ENDS, UNLESS NOTED OTHERWISE. PIN DIAMETER "D" IS THE SAME FOR BENDS AND HOOK ON A BAR.
3. NO DEDUCTIONS FOR CURVATURE AT BENDS ARE MADE EXCEPT FOR THE ADJUSTMENTS INCLUDED IN THE ABOVE "ADD LENGTH" DIMENSIONS.
4. * INDICATES STIRRUP OR TIE BAR.
5. PROVIDE BARS THAT CONFORM TO AASHTO M31, GRADE 60.
6. A. PROVIDE EPOXY COATED BARS DESIGNATED "E" IN THE "COAT" COLUMN.
   B. PROVIDE BAR TYPE S OR W DESIGNATED IN THE "BAR TYPE" COLUMN.
7. BAR WEIGHTS ONLY INCLUDE REINFORCING STEEL PAID FOR UNDER THE PAY ITEMS 503-010A, 503-015A & 503-020A. OTHER REINFORCING STEEL NOT LISTED IS INCIDENTAL TO OTHER PAY ITEMS.

BAR BEND DIAGRAMS



s = STANDARD END HOOK, STIRRUP HOOK, OR TIE HOOK DIMENSION

BEND DETAILS



"L" = LENGTH GIVEN IN SKETCH

BAR SIZE	STANDARD END HOOK DIMENSIONS ALL GRADES D	A	B	STIRRUP AND TIE HOOK DIMENSIONS ALL GRADES D	B	C
#3	2¼"	5"	6"	1½"	4"	4"
#4	3"	6"	8"	2"	4½"	4½"
#5	3¾"	7"	10"	2½"	6"	5½"
#6	4½"	8"	1'-0"	4½"	1'-0"	8"
#7	5¼"	10"	1'-2"	5¼"	1'-2"	9"
#8	6"	11"	1'-4"	6"	1'-4"	10½"
#9	9½"	1'-3"	1'-7"			
#10	10¾"	1'-5"	1'-10"			
#11	1'-0"	1'-7"	2'-0"			
#14	1'-6¼"	2'-3"	2'-7"			
#18	2'-0"	3'-0"	3'-5"			

PROFESSIONAL ENGINEER LICENSED 23269 3/23/2026 STATE OF IDAHO ISAAC FINDLAY BECKER

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED I. BECKER
DESIGN CHECKED M. PETERSEN
DETAILED A. MITCHELL
DWG. CHECKED M. PETERSEN
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
29256 bdtl D26.dgn
DRAWING DATE: MARCH 2026

DAVID EVANS AND ASSOCIATES INC.

ENGLISH

PROJECT NO.

METAL REINFORCEMENT (2 OF 2)

79' PRESTRESSED CONCRETE BRIDGE
CLEAR CREEK RD. OVER CLEAR CREEK
STA. 7+57.50

BRIDGE PLANS

BRIDGE KEY NO. 29256
COUNTY IDAHO | KEY NO.
BRIDGE DWG. NO. 18486 | SHEET 26 OF 26

IDAHO
TRANSPORTATION DEPARTMENT

STANDARD DRAWINGS

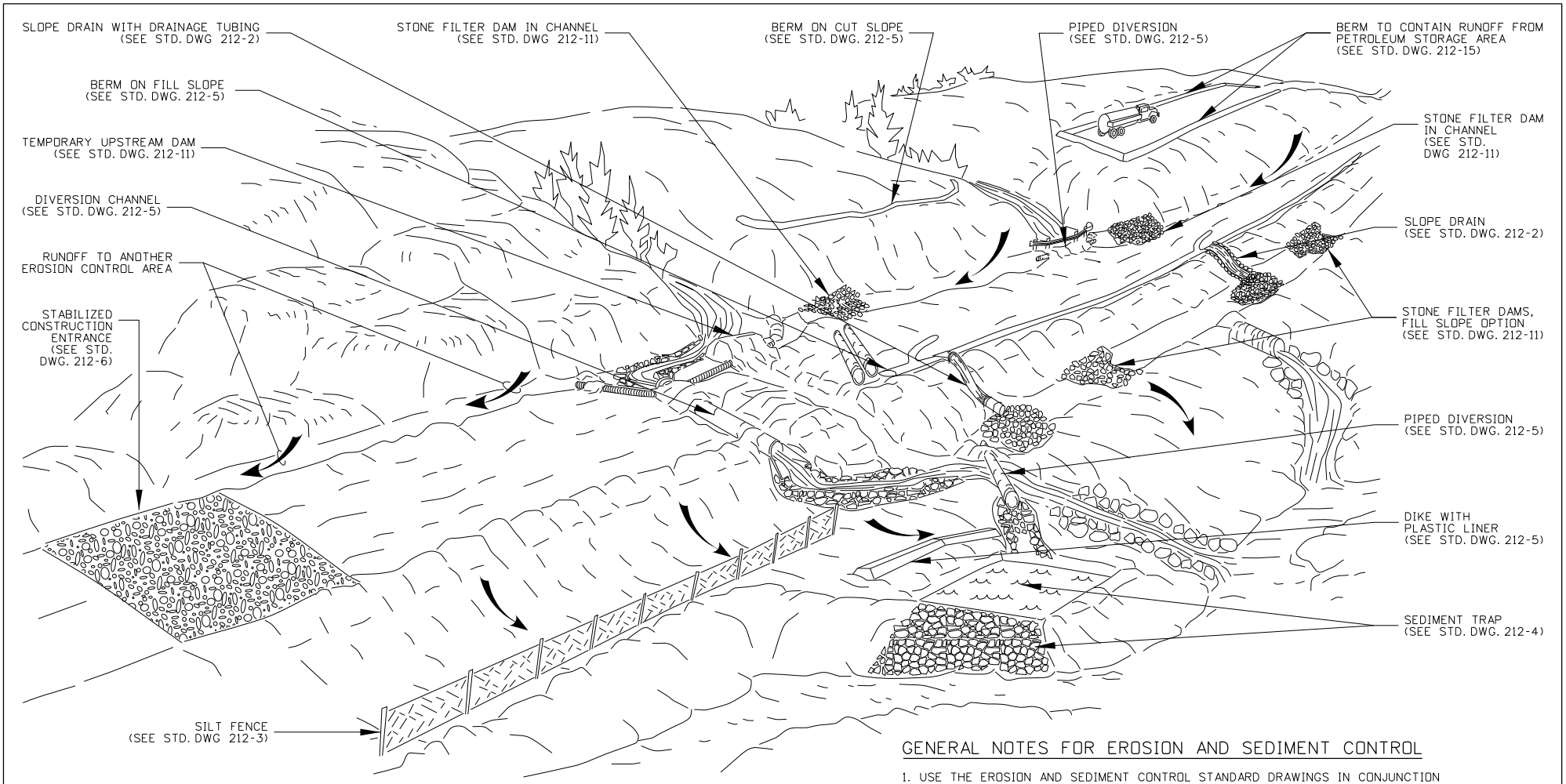
APRIL 2024

STANDARD DRAWINGS
APRIL 2024

DRAWING NUMBER	DRAWING NAME
212-1	Erosion and Sediment Control - Example Applications
212-2	Temporary Erosion and Sediment Control - Slope Drains
212-3	Temporary Erosion and Sediment Control - Silt Fence, Fiber Wattle, and Compost Sock
212-4	Temporary Erosion and Sediment Control - Sediment Trap
212-5	Temporary Erosion and Sediment Control - Diversion Channel, Ditch, Swale, Dike, Berm, Waterbar, and Rolling Dip
212-6	Temporary Erosion and Sediment Control - Stabilized Construction Entrance and Vehicle Washdown
212-7	Temporary Erosion and Sediment Control - Inlet Protection
212-10	Permanent Erosion Control and Sediment Control - Gabion and Revet Mattress
212-11	Permanent Erosion Control and Sediment Control - Stone Filter Berms, Dams and Weirs
212-12	Permanent Erosion Control and Sediment Control - Slope and Channel Protection
212-15	Petroleum Storage Area
212-16	Temporary Concrete Washout
405-1	Rural Approaches
405-2	Mailbox Turnout
409-1	Portland Cement Concrete Pavement
409-2	Portland Cement Concrete Pavement Ramp Gore Details
411-1	Urban Concrete Pavement
411-2	Urban Concrete Pavement Manhole Collars
601-1	Pipe and Conduit Installation
605-1	Storm Sewer Pipe, 12" Thru 30" Slotted Drain
605-10	Manhole Type A
605-11	Manhole Type B
605-12	Manhole Types C & D
605-13	Manhole Frame, Cover, & Concrete Collar
605-20	Inlets & Catch Basins, Types 1, 2, & 3
605-21	Inlets & Catch Basins, Types 1A, 2A, & 3A
605-22	Inlets & Catch Basins, Types 4 & 5
605-23	Catch Basin, Type 6
605-24	Catch Basin, Type 7
605-25	Inlet, Type 8
605-26	Inlet Median Drain, Type 9
605-27	Catch Basin, Type 10
605-28	VANE GRATE INLET
605-30	Sediment Control Catch Basin
605-31	Sediment and Oil Trap Manhole
605-32	Sediment and Oil Trap Manhole (In Street)
605-35	Drywell
606-2	Edge Drain
607-1	Embankment Protector
607-2	Embankment Protector with Slotted Drain
608-1	Galvanized Steel Aprons for Pipe Culverts
608-2	Concrete Aprons for Pipe Culverts
608-3	Metal Safety Slope Apron
609-1	Culvert Inlet Headwall
609-2	Concrete Headwall for Single Pipe Culvert
609-3	Concrete Headwall for Twin Pipe Culvert
609-4	Concrete Headwall for Arch Pipe Culvert
609-5	Concrete Headwall for Siphons
609-6	Precast Concrete Headgate
610-1	Fences
610-2	Gates
610-3	Fence Braces
611-1	Cattle Guard Type A
611-2	Cattle Guard, Pavement Markings

DRAWING NUMBER	DRAWING NAME
612-1	31" W-Beam Guardrail
612-3	Short Radius W-Beam Guardrail System
612-5	Guardrail Anchor
612-6	Guardrail Terminal, Buried-in-Backslope
612-7	Guardrail Terminal, Flared
612-8	Guardrail Terminal, Tangent
612-10	Guardrail Transition, Low Speed
612-11	Guardrail Transition, High Speed
612-18	Precast Concrete Barrier
612-20	Precast Concrete Barrier Terminals
612-24	F-Shape to New Jersey Shape Transition
612-25	F-Shape to Single Slope Transition
613-1	Bullnose Crash Cushion
614-1	Sidewalks
614-2	Driveways
614-3	Curb Ramps
615-1	Curb and Gutter
616-1	Punching Schedule for Type "B" or Type "E" Signs
616-2	Extruded Aluminum Signs
616-5	Breakaway Steel Sign Post Installation, Type A - Wide Flange
616-6	Breakaway Steel Sign Post Installation, Type B
616-7	Breakaway Steel Sign Post Installation, Type E
616-10	Breakaway Sign Posts, Type D
616-15	Route Marker Bracket Details
616-16	B Post and Brace Angle Detail
616-17	Route Sign
617-1	Delineators
617-2	Milepost Assemblies
618-1	Marker Post, Witness Posts, and Street Monuments
619-1	Light Pole Foundation Detail
628-1	Snow Poles
630-1	Pavement Markings
631-1	Rumble Strips
634-1	Mailboxes
634-2	Mailbox Snow Shield
656-1	Mast Arm Traffic Signal Poles
656-2	Frangible Cast Base Traffic Signal Poles
656-3	Mast Arm Signal Pole Foundation Detail
656-5	Signal Cabinet & Service Pedestral Foundation Details
656-6	Signal Cabinet Foundation Detail
656-10	Loop Detectors, 10 ft/sec^2 Deceleration Rate
656-15	Pedestrian Pushbutton Placement
657-1	Flashing Beacons
706-6	Corrugated Metal Pipe Watertight Coupling Bands

INDIVIDUAL STANDARD DRAWINGS AND AN ELECTRONIC BOOK OF ALL STANDARD DRAWINGS ARE AVAILABLE ON THE ITD WEBSITE



GENERAL NOTES FOR EROSION AND SEDIMENT CONTROL

1. USE THE EROSION AND SEDIMENT CONTROL STANDARD DRAWINGS IN CONJUNCTION WITH THE ITD BEST MANAGEMENT PRACTICES MANUAL.
2. THE PLACEMENT OF EROSION CONTROL MEASURES IS SITE SPECIFIC. OBTAIN THE ENGINEER'S APPROVAL OF THE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO INSTALLATION.
3. EROSION AND SEDIMENT CONTROL MEASURES PLACEMENT AND INSTALLATION MAY BE CONTROLLED BY THE NPDES, 404 PERMIT OR CONTRACT SPECIFICATIONS.
4. DRAWING NOT TO SCALE

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED MARCH 18, 2010 13683 RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	9-93	MSM	6	12-16	RDL			
2	6-96	MSM	7	02-21	TWF			
3	10-10	KEH						
4	10-11	KEH						
5	12-12	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 212-01_0421.dgn

DRAWING DATE: APRIL, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

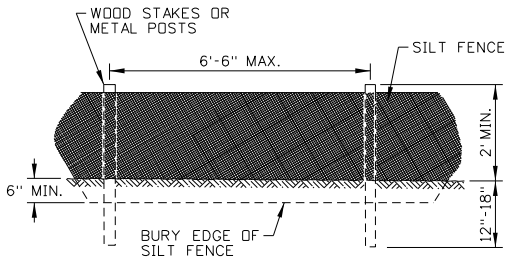
STANDARD DRAWING

EROSION AND SEDIMENT CONTROL EXAMPLE APPLICATIONS

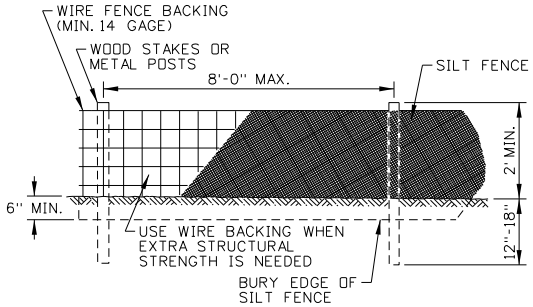
English

STANDARD DRAWING NO. 212-1

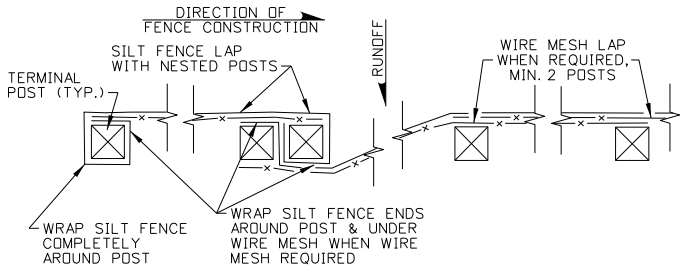
SHEET 1 OF 1



SILT FENCE (NO WIRE BACKING)



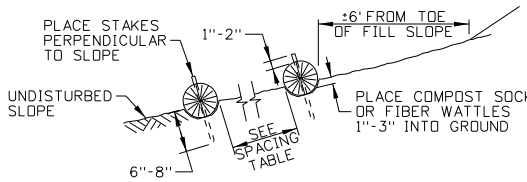
SILT FENCE (WIRE BACKING)



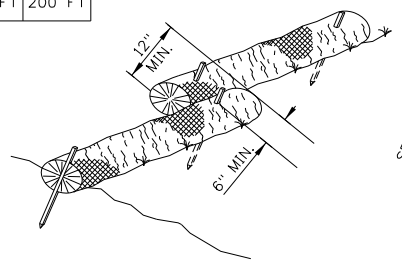
SILT FENCE LAP DETAIL

FIBER WATTLE & COMPOST SOCK SPACING TABLE				
SLOPE	WATTLE SIZE			
	6"	9"	12"	20"
1:1	5 FT	10 FT	15 FT	20 FT
2:1	10 FT	20 FT	30 FT	40 FT
3:1	15 FT	30 FT	45 FT	60 FT
4:1 OR FLATTER	20 FT	40 FT	60 FT	80 FT

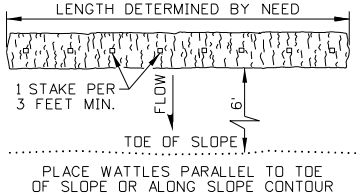
SILT FENCE SPACING TABLE			
SLOPE	SOIL TYPE		
	SILTY	CLAYS	SANDY
1:1	50 FT	75 FT	100 FT
2:1	75 FT	100 FT	125 FT
4:1	100 FT	125 FT	150 FT
10:1 OR FLATTER	125 FT	150 FT	200 FT



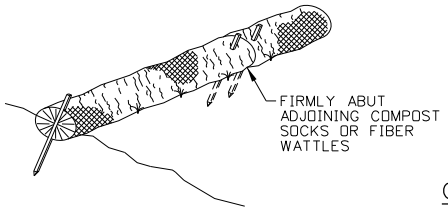
COMPOST SOCK AND FIBER WATTLE
SIDE VIEW



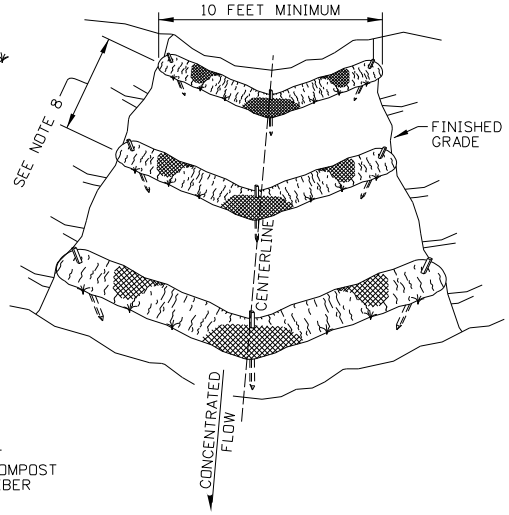
COMPOST SOCK AND FIBER WATTLE
OVERLAPPING DETAIL



COMPOST SOCK AND FIBER WATTLE
PLAN VIEW



COMPOST SOCK AND FIBER WATTLE
ABUTTING DETAIL



COMPOST SOCK AND FIBER WATTLE
TEMPORARY CHECK DAM DETAIL

NOTES

1. SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. THE NEED FOR TEMPORARY SEDIMENT CONTROL DEVICES ARE DETERMINED BY SITE DESIGN. SPACE SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES IN ACCORDANCE WITH THE SILT FENCE SPACING TABLE AND FIBER WATTLE & COMPOST SOCK SPACING TABLE.
3. INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
4. PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. USE EITHER METAL POSTS OR WOOD STAKES.
5. ENSURE RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
6. GROUND SILT FENCES WITH WIRE MESH IN ACCORDANCE WITH THE GROUNDING DETAIL SHOWN ON STANDARD DRAWING 610-1.
7. EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
8. SPACE CHECK DAMS ACCORDING TO THE HEIGHT OF THE DAM AND THE SLOPE OF THE CHANNEL SO THE BACKWATER FROM THE DOWNSTREAM DAM REACHES THE TOE OF THE UPSTREAM DAM.
9. ON SLOPES, TURN THE ENDS OF EACH ROW OF COMPOST SOCKS AND FIBER WATTLES UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE SOCK OR WATTLE.
10. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES WHEN ACCUMULATION HAS REACHED ½ OF THE EFFECTIVE HEIGHT OF THE BARRIER.
11. DRAWING NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 MARCH 18, 2010 ORIGINAL SIGNED BY RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	09-93	MSM	6	01-13	RDL			
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3	06-96	GFK						
4	10-10	KEH						
5	10-11	KEH						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 212-03_0421.dgn

DRAWING DATE: APRIL, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

TEMPORARY EROSION AND SEDIMENT CONTROL

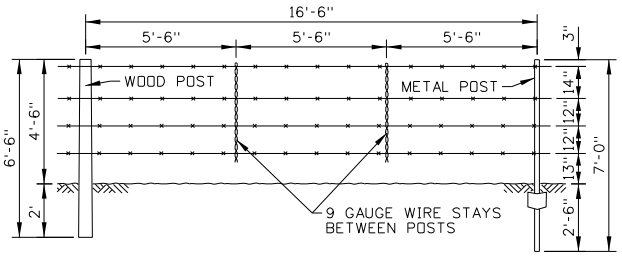
SILT FENCE, FIBER WATTLE, AND COMPOST SOCK

REQUIRES STD. DWG. 212-1

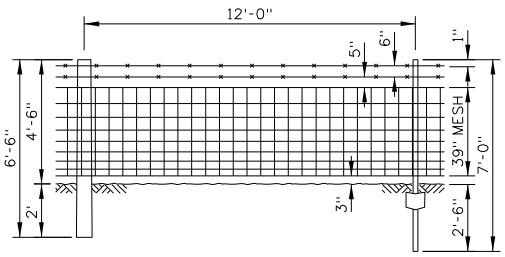
English

STANDARD DRAWING NO. 212-3

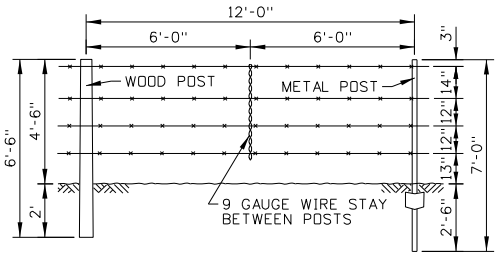
SHEET 1 OF 1



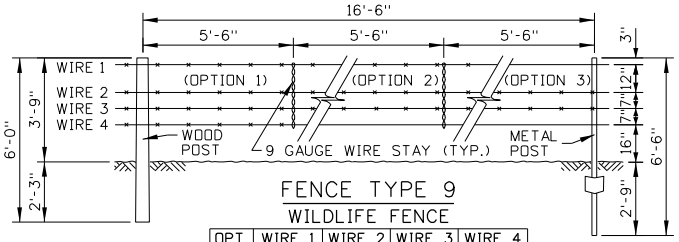
1A (WOOD) FENCE TYPE 1 1B (METAL)



3A (WOOD) FENCE TYPE 3 3B (METAL)



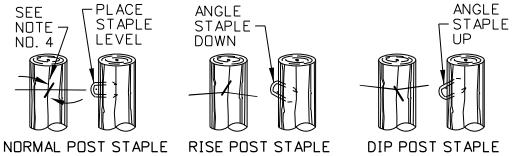
5-A (WOOD) FENCE TYPE 5 5-B (METAL)



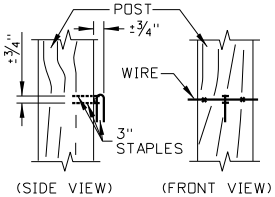
FENCE TYPE 9
WILDLIFE FENCE

OPT.	WIRE 1	WIRE 2	WIRE 3	WIRE 4
1	BARBED	BARBED	BARBED	BARBED
2	BARBED	BARBED	BARBED	SMOOTH
3	SMOOTH	BARBED	BARBED	SMOOTH

9-A (WOOD) 9-B (METAL)

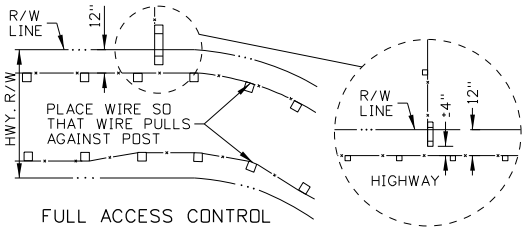


WOOD FENCE POST STAPLE DETAILS
(SEE NOTE NO. 4)

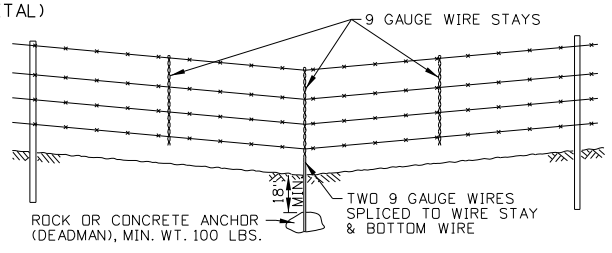


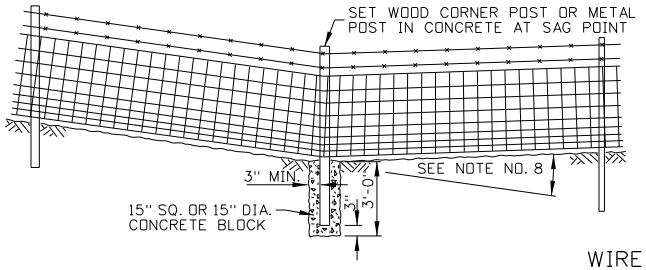
DROP FENCE STAPLE DETAIL
(SEE NOTE NO. 1)

WIRE AND WIRE MESH FENCE GROUNDING TABLE			
FENCE DIST. FROM TRANSMISSION LINE	kV	POST MATERIAL	GROUNDING INTERVAL
0' - 100'	500	ALL	200'
100' - 200'	500	ALL	500'
0' - 100'	345	ALL	400'
100' - 150'	345	ALL	1,000'
50' - 100'	230	ALL	500'

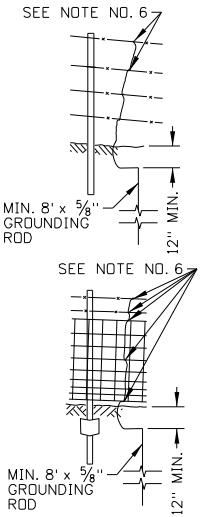


RIGHT-OF-WAY FENCE LOCATION DETAILS





SAG DETAILS



WIRE AND WIRE MESH FENCE GROUNDING DETAILS

BARBED OR WOVEN WIRE FENCE NOTES

1. DESIGNATE POST MATERIAL ON PROJECT PLANS. INDICATE WHETHER THE FENCE WILL BE A DROP FENCE AND THE LOCATION WHERE DROP FENCE STAPLES WILL BE USED.
2. DESIGNATE OPTION 1, 2, OR 3 FOR FENCE TYPE 9 - WILDLIFE FENCE - ON PROJECT PLANS.
3. ATTACH ANCHOR PLATES TO METAL POSTS UNLESS THE POST IS SET IN SOLID ROCK. GROUT DRILL HOLES WHEN METAL POSTS ARE SET IN SOLID ROCK.
4. STAPLE EACH WIRE TO EACH WOOD POST. STAPLE ALTERNATING WIRES ON MESH WIRE FENCES. USE TWO STAPLES ON BRACES AND IN SAG SECTIONS. ROTATE THE STAPLES TO STRADDLE ACROSS THE WOOD GRAIN. ALLOW ENOUGH SPACE FOR WIRE TO SLIDE THROUGH THE STAPLE.
5. ATTACH FENCE WIRE OR WIRE MESH TO STEEL POSTS WITH WIRE CLAMPS. USE ONE WIRE CLAMP PER WIRE. ON WIRE MESH, USE FOUR WIRE CLAMPS PER POST OR EIGHT WIRE CLAMPS PER POST IN SAG SECTIONS.
6. GROUND WIRE AND WIRE MESH FENCES THAT ARE NEAR POWER TRANSMISSION LINES OR THAT PASS UNDER TRANSMISSION LINES. SEE THE WIRE AND WIRE MESH FENCE GROUNDING TABLE AND WIRE AND WIRE MESH FENCE GROUNDING DETAILS. TO GROUND, CONNECT EACH FENCE WIRE TO 6 GAUGE BRAIDED GROUND CABLE WITH SPLIT BOLT CABLE CONNECTORS. FOR WIRE MESH FENCE, CONNECT THE BRAIDED GROUND CABLE EVERY 18". GROUND THE FENCE ONCE IF THE FENCE SECTION IS SHORTER THAN THE GROUNDING INTERVAL.
7. WHEN THE FENCE TERMINATES AT A BRIDGE, ENSURE THAT THE TOP OF THE FENCE DOES NOT EXTEND BEYOND THE TOP OF THE PARAPET OR RAILING.
8. ON THE SAG DETAIL, INSTALL CORNER BRACE IN ADDITION TO THE CONCRETE BASE WHEN THE ANGLE IS GREATER THAN 20°.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER ORIGINAL SIGNED DECEMBER 6, 2016 STATE OF IDAHO 13683 RYAN D. LANCASTER

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

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-1_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

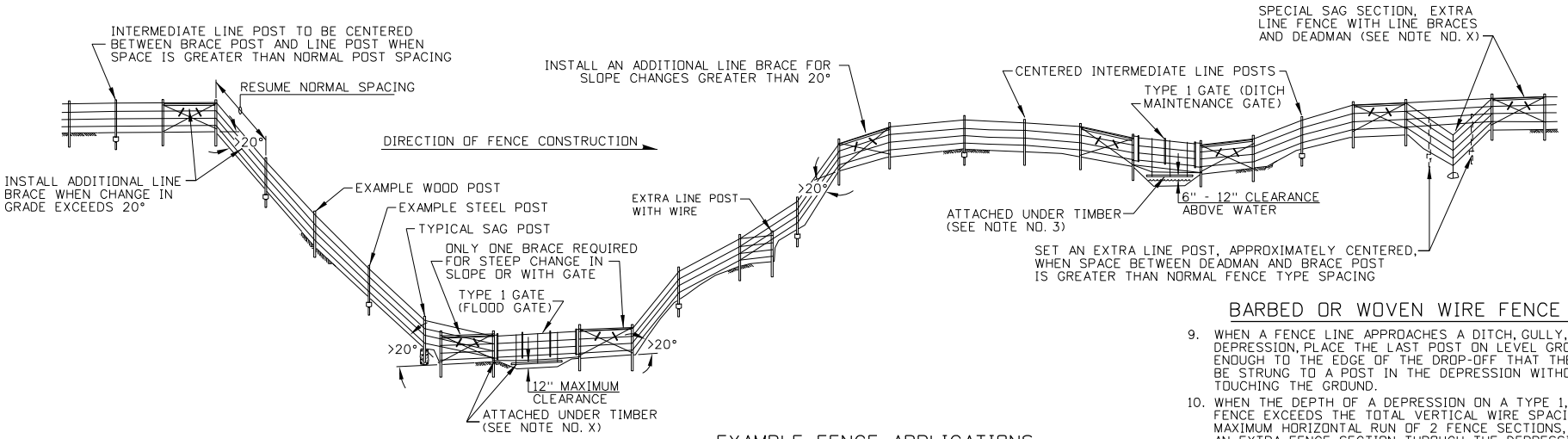
STANDARD DRAWING

FENCES

English

STANDARD DRAWING NO. 610-1

SHEET 1 OF 3

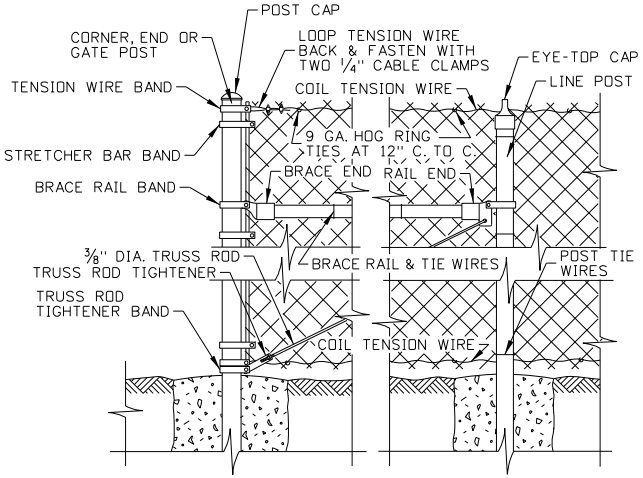


EXAMPLE FENCE APPLICATIONS

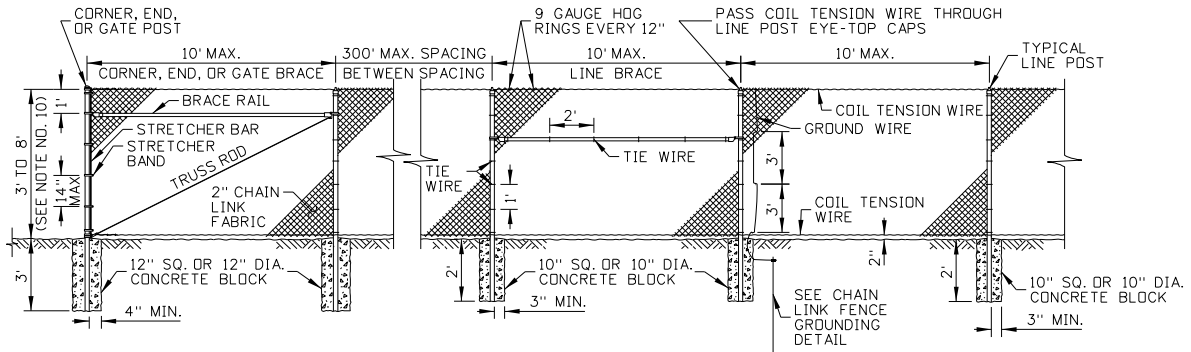
FOR FENCE TYPES 1, 3, 5, & 9

BARBED OR WOVEN WIRE FENCE NOTES

9. WHEN A FENCE LINE APPROACHES A DITCH, GULLY, OR DEPRESSION, PLACE THE LAST POST ON LEVEL GROUND CLOSE ENOUGH TO THE EDGE OF THE DROP-OFF THAT THE WIRE MAY BE STRUNG TO A POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.
10. WHEN THE DEPTH OF A DEPRESSION ON A TYPE 1, 5, OR 9 FENCE EXCEEDS THE TOTAL VERTICAL WIRE SPACING OVER A MAXIMUM HORIZONTAL RUN OF 2 FENCE SECTIONS, CONSTRUCT AN EXTRA FENCE SECTION THROUGH THE DEPRESSION. SEE THE EXAMPLE FENCE APPLICATIONS.
11. IF THE DISTANCE BETWEEN THE GROUND AND THE BOTTOM WIRE OF A TYPE 1 GATE IS GREATER THAN 16", INSTALL AN UNDER TIMBER, ADDITIONAL WIRE, AND WIRE STAYS, AND BRACES.



FENCE TYPE 4
CHAIN LINK FENCE



FENCE TYPE 4 - CHAIN LINK FENCE DETAILS

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

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 610-1_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

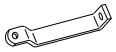
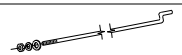
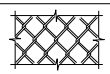
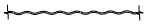
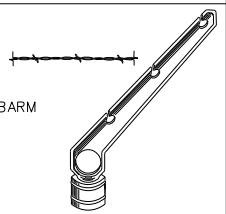
STANDARD DRAWING

FENCES

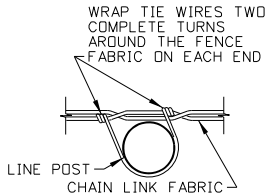
English

STANDARD DRAWING NO. 610-1

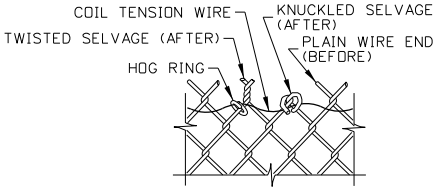
SHEET 2 OF 3

CHAIN LINK FENCE HARDWARE TABLE		
CORNER, END AND GATE POSTS		SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
LINE POST		SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
BRACE RAIL/TOP RAIL		SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONST.
POST CAP		CAST NON-FERROUS ALLOY OR GALVANIZED PRESSED STEEL CAP. MUST FIT SNUGGLY ON POST.
EYE-TOP CAP		GALVANIZED PRESSED STEEL MIN. 3/32" THICKNESS OR GALVANIZED MALLEABLE FERROUS ALLOY
STRECHER BAR BAND		CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
TENSION WIRE/BRACE BAND		CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
BAND BOLT		CLASS 1 - 5/16" DIA. x 1 3/4" GALV. CARRIAGE BOLT CLASS 2 - 3/8" DIA. x 1 1/4" GALV. CARRIAGE BOLT, (LOCK WASHER & FLAT WASHER FOR EACH BAND)
RAIL END		GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
BRACE END		GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
TRUSS ROD TIGHTENER		CLASS 1 - MIN. 3/8" FORMED GALVANIZED STEEL CLASS 2 - MIN. 1/4" FORMED GALVANIZED STEEL
TRUSS ROD		3/8" GALVANIZED, NC TREADED ROD, LOCK WASHER, & FLAT WASHER WITH TWO 90° BENDS OPPOSITE OF TREADED END
TOP RAIL SLEEVE		GALVANIZED STEEL, NOT TO BE USED ON R/W FENCES, MUST MEET REQUIRED PIPE THICKNESSES
TENSION BAR		CLASS 1 - MIN. 1/8" x 3/4" GALVANIZED STEEL CLASS 2 - MIN. 1/8" x 5/16" GALVANIZED STEEL
FENCE FABRIC		2" GALVANIZED DIAMOND MESH STEEL FABRIC
TIE WIRES		MIN. 9 GAUGE ALUMINUM WITH ONE HOOKED END
COIL TENSION WIRE		MIN. 7 GAUGE
BARBED WIRE & 3-WIRE BARBARM		BARBED WIRE: 14 GAUGE SPACED GALVANIZED MEDIUM CARBON STEEL WIRE WITH BARBS SPACED AT 5" C. to C. GALVANIZING SHALL CONFORM TO APPLICABLE A.S.T.M. DES. A-121-66 FOR ZINC-COATED & AASHTO M 280 SPECIFICATIONS. 3-WIRE BARBARM: BARBWIRE ARM (ONE PIECE "Z" CUT) FITS 1 5/8" O.D. POST, 1 5/8" TOP RAIL" FITS 2" O.D. POST, 1 5/8" TOP RAIL" FITS 2 1/2" O.D. POST, 1 5/8" TOP RAIL" FITS 3" O.D. POST, 1 5/8" TOP RAIL"

CHAIN LINK FENCE GROUNDING TABLE		
FENCE DIST. FROM TRANSMISSION LINE	kV	GROUNDING INTERVAL
0' - 100'	500	200'
100' - 200'	500	500'
0' - 100'	345	400'
100' - 150'	345	1,000'
50' - 100'	230	500'

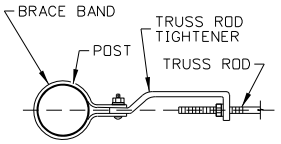


CHAIN LINK FENCE TIE DETAIL

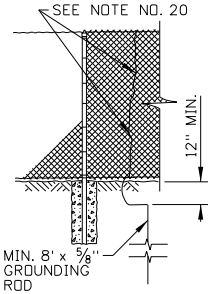


WIRE SELVAGE DETAIL

(SEE NOTE NO. 16)



TRUSS ROD TIGHTENER DETAIL



CHAIN LINK FENCE GROUNDING DETAIL

CHAIN LINK FENCE NOTES

12. THE MINIMUM FENCE HEIGHT IS 8' WHEN BARBED WIRE AND THE 3-WIRE BARBARM ARE USED. DO NOT USE RAZOR WIRE WITH THE 3-WIRE BARBARM.
13. SPACE POSTS EQUAL DISTANCES APART, 10' MAXIMUM SPACING.
14. ADJUST THE POST TOP ELEVATIONS TO PROVIDE A SMOOTH VISUAL FENCE PROFILE. INSTALL CORNER POSTS AT HORIZONTAL BREAKS IN THE FENCE OF 15° OR MORE.
15. STRETCH THE FENCE FABRIC SMOOTH SO THAT IT HAS A UNIFORM APPEARANCE.
16. SELVAGE THE PLAIN WIRE ENDS ON THE TOP AND BOTTOM OF THE CHAIN LINK FABRIC BY THE TWISTED OR KNUCKLED METHOD. SEE WIRE SELVAGE DETAIL.
17. CHAIN LINK FENCE HARDWARE MAY VARY SOMEWHAT FROM THAT SHOWN IN THE CHAIN LINK FENCE HARDWARE TABLE. ENSURE THAT HARDWARE AND MATERIALS USED ARE UNIFORM AND COMPATIBLE.
18. INSTALL A TOP RAIL WHEN BARBED WIRE AND THE 3-WIRE BARBARM ARE USED.
19. INSTALL PRIVACY FENCE SLATS IF SHOWN ON PROJECT PLANS.
20. GROUND CHAIN LINK FENCES THAT ARE NEAR POWER TRANSMISSION LINES OR THAT INTERSECT TRANSMISSION LINES. SEE THE CHAIN LINK FENCE GROUNDING TABLE AND CHAIN LINK FENCE GROUNDING DETAILS. TO GROUND, CONNECT 6 GAUGE BRAIDED GROUND CABLE TO THE CHAIN LINK FABRIC EVERY 36'. GROUND THE FENCE ONCE IF THE FENCE SECTION IS SHORTER THAN THE GROUNDING INTERVAL.
21. DRAWING NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED DECEMBER 6, 2016

REVISIONS

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

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IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

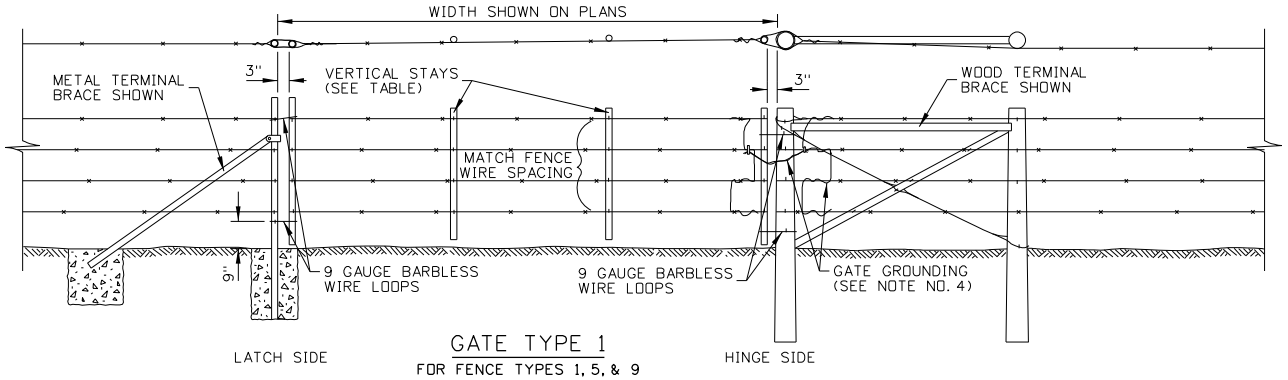
STANDARD DRAWING

FENCES

English

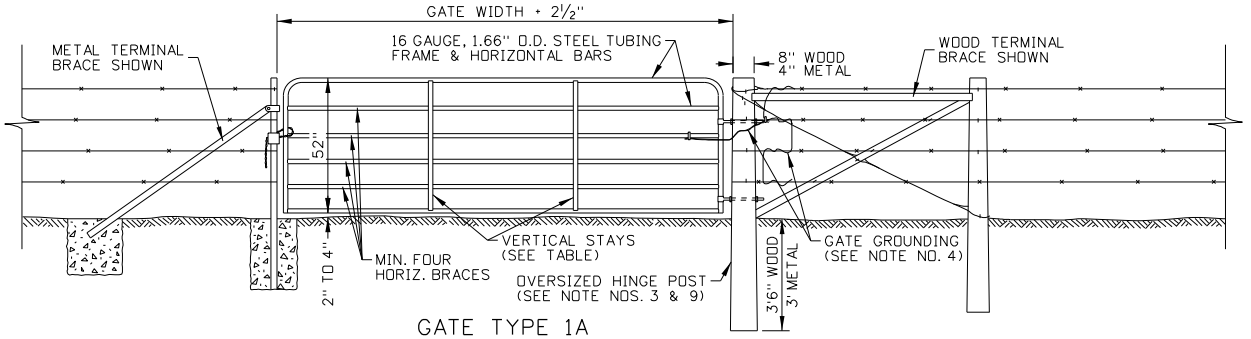
STANDARD DRAWING NO. 610-1

SHEET 3 OF 3



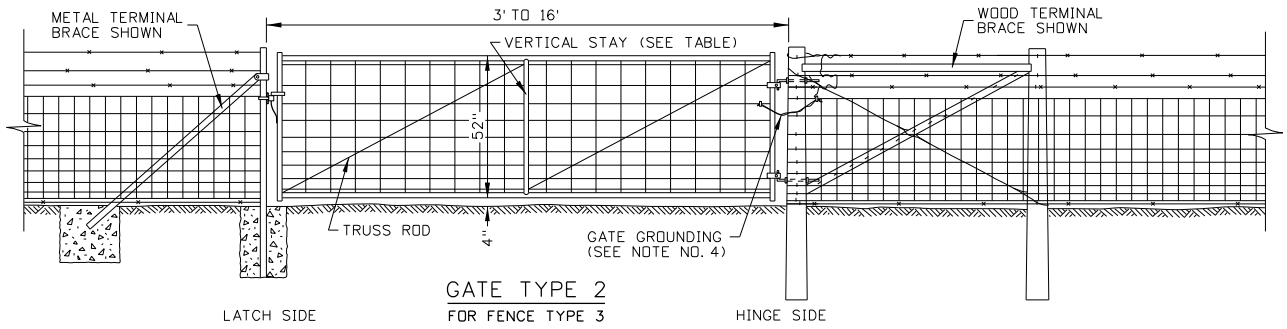
GATE TYPE 1

FOR FENCE TYPES 1, 5, & 9



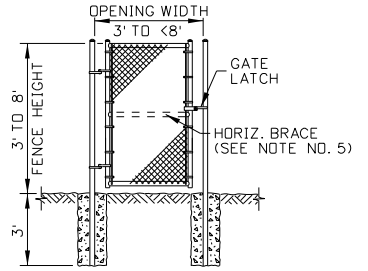
GATE TYPE 1A

FOR FENCE TYPES 1, 5, & 9

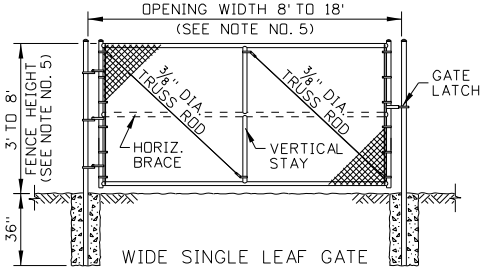


GATE TYPE 2

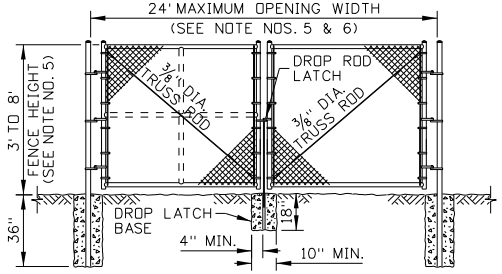
FOR FENCE TYPE 3



NARROW SINGLE LEAF GATE



WIDE SINGLE LEAF GATE



DOUBLE LEAF GATES

GATE TYPE 3

FOR FENCE TYPE 4

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IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

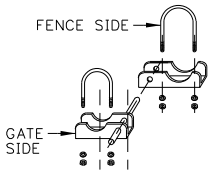
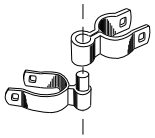
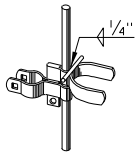
GATES

REQUIRES STD. DWGS. 610-1 & 610-3

English

STANDARD DRAWING NO. 610-2

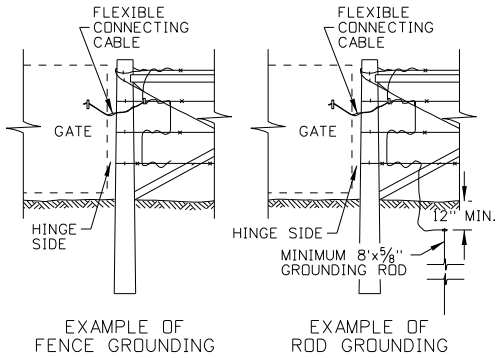
SHEET 1 OF 2

CHAIN LINK FENCE GATE HARDWARE TABLE		
GATE FORK LATCH		MIN. 1/8" GALVANIZED PRESSED STEEL OR MALLEABLE FERROUS ALLOY. ONE LATCH PER EACH SINGLE GATE WITH BENT MIN. 3/8" DIA. ATTACHMENT BOLT, WASHER & NUT.
HEAVY GATE HINGE		MIN. 1/8" GALVANIZED PRESSED STEEL WITH TWO 3/8" U-BOLTS, LOCK WASHER & NUTS PER HINGE. USE 2 HINGES PER GATE LEAF UP TO 8' IN WIDTH AND 3 HINGES PER GATE LEAF WIDTHS GREATER THAN 8' (THESE HINGES ARE RECOMMENDED FOR MAINTENANCE & COMMERCIAL INSTALLATIONS).
RESIDENTAL GATE HINGE		MIN. 1/8" GALVANIZED PRESSED STEEL WITH 3/8" DIA. x 3" CARRIAGE BOLTS, LOCK WASHER & NUTS PER HINGE. USE 2 HINGES PER GATE LEAF UP TO 6' IN HEIGHT AND 3 HINGES PER GATE LEAF HEIGHTS GREATER THAN 6'.
INDUSTRIAL DROP ROD FORK & GUIDE		MIN. 1/8" GALVANIZED PRESSED STEEL. DROP ROD GUIDE INCLUDES 3/8" x 3" CARRIAGE BOLT WITH LOCK WASHER & NUT. DROP ROD FORK IS TO BE WELDED TO ROD & PAINTED WITH AN APPROVED ZINC RICH PAINT.

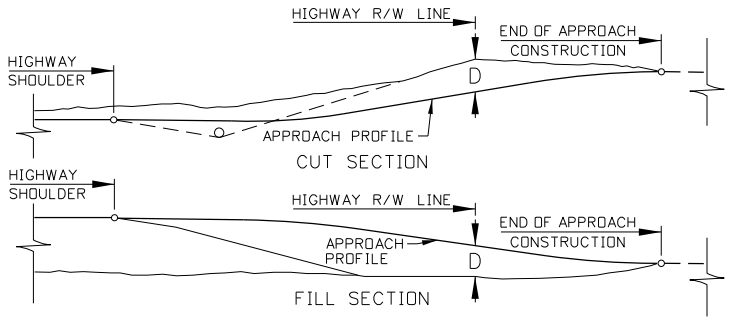
GATE GROUNDING TABLE			
FENCE DIST. FROM TRANSMISSION LINE	kV	GATE TYPE	GROUNDING TYPE
0' - 100'	500	1A, 2, 3	ROD
100' - 200'	500	1A, 2, 3	FENCE
0' - 100'	345	1A, 2, 3	ROD
100' - 150'	345	1A, 2, 3	FENCE
50' - 100'	230	1A, 2, 3	FENCE

GATE VERTICAL STAY TABLE		
GATE TYPE	GATE WIDTH	NO. OF VERT. STAYS
TYPE 1	4' TO 6'	0
	8' TO 12'	1
	14' TO 16'	2
TYPE 1A	4' TO 6'	0
	8' TO 12'	1
	14' TO 16'	2
TYPE 2	3' TO 7'	0
	8' TO 16'	1
TYPE 3	3' TO 7'	0
	8' TO 15'	1
	16' TO 18'	2

GATE HORIZONTAL BRACE TABLE		
GATE TYPE	GATE HEIGHT	NO. OF HORIZ. BRACES
TYPE 1A	4.33'	4
TYPE 3	4' TO 5'	0
	6' TO 8'	1



GATE GROUNDING DETAILS



GATE LOCATION DETAIL
(SEE NOTE NO. 7)

NOTES

1. CONSTRUCT GATES FROM THE MATERIALS SHOWN ON FENCES STANDARD DRAWING UNLESS OTHERWISE SHOWN.
2. ALTERNATE GATE DESIGNS MAY BE USED WITH ENGINEER APPROVAL.
3. CONSTRUCT MATCHING METAL OR WOOD TERMINAL BRACES ON BOTH SIDES OF THE GATE OPENING. MODIFY THE TERMINAL BRACE ON THE HINGE SIDE OF TYPE 1A GATES.
4. GROUND GATES THAT ARE NEAR POWER TRANSMISSION LINES OR THAT PASS UNDER TRANSMISSION LINES. GROUND BY CONNECTING THE HINGE SIDE OF THE GATE TO THE FENCE OR TO THE FENCE AND A GROUNDING ROD. SEE THE GATE GROUNDING TABLE AND GATE GROUNDING DETAILS. ENSURE THAT THE GATE IS GROUNDED WITH A FLEXIBLE COPPER CABLE. TYPE 1 GATES DO NOT NEED TO BE GROUNDED.
5. CONSTRUCT VERTICAL STAYS AND HORIZONTAL BRACES IN ACCORDANCE WITH THE GATE VERTICAL STAY TABLE AND THE GATE HORIZONTAL BRACE TABLE.
6. WHERE TWO TYPE 1A, TYPE 2, OR TYPE 3 GATES ARE USED IN A SINGLE OPENING, PROVIDE A DROP ROD TO SECURE THE GATES.
7. ON THE GATE LOCATION DETAIL, WHEN D IS 5' OR LESS, INSTALL GATES AT THE RIGHT-OF-WAY LINE. WHEN D IS GREATER THAN 5', INSTALL GATES AT THE END OF THE APPROACH CONSTRUCTION OR AS OTHERWISE DIRECTED BY THE ENGINEER. IF INSTALLED AT THE END OF THE APPROACH, ANGLE AND INSTALL RIGHT-OF-WAY FENCE ALONG THE EDGE OF THE APPROACH CUT OR FILL SLOPE.
8. TYPE 1 GATES:
   A. CONSTRUCT GATE ENDS AND VERTICAL STAYS FROM A SECTION OF METAL FENCE POST OR ROUND WOOD POST 2 1/2" TO 3" IN DIAMETER. PLACE LARGER WOODEN STAYS AT THE GATE ENDS.
   B. ATTACH WIRE LOOPS MADE WITH A DOUBLE WOVEN 9 GAUGE BARBLESS WIRE OR A SUITABLE CHAIN. ADJUST THE LOOPS SO THAT THE GATE IS TAUT WHEN CLOSED. FASTEN THE LOOPS TO THE ADJACENT LATCH/HINGE POST.
   C. STAPLE THE STAYS AND END POSTS TO THE CONNECTING WIRES.
9. TYPE 1A GATES:
   A. USE A MODIFIED METAL OR WOOD POST ON THE HINGE SIDE. USE A 4" DIAMETER, 7'-6" METAL TUBE OR A 8" DIAMETER, 8' WOOD POST. IF THE METAL POST IS USED, SET THE POST IN AN 18" SQUARE OR ROUND FOUNDATION.
   B. ENSURE THAT HINGES ON GATES WIDER THAN 10' HAVE LEVELING THREADS ON A 3/4" DIAMETER OR LARGER ROD.
   C. ENSURE THAT LATCHES ARE LOCKABLE.
   D. CLEAR THE GROUND NEAR THE GATE SO THAT THE GATE CAN SWING 90° IN EACH DIRECTION.
10. TYPE 2 GATES:
   A. FABRICATE GATE FRAMES WITH 1.05" O.D. GALVANIZED STEEL TUBING WITH 0.095" WALL THICKNESS OR 1" DIAMETER GALVANIZED PIPE.
   B. USE 12.5 GAUGE OR HEAVIER GALVANIZED WIRE MESH.
   C. EQUIP GATE WITH AN ADJUSTABLE DIAGONAL TRUSS ROD. THE TRUSS ROD TIGHTENER AND NON-TIGHTENING END OF THE TRUSS ROD MAY BE WELDED TO THE GATE.
   D. USE GALVANIZED MALLEABLE STEEL HINGES AND LATCHES.
   E. PAINT WELDS WITH ITD PAINT FORMULA NO. 2.
   F. CLEAR THE GROUND NEAR THE GATE SO THAT THE GATE CAN SWING 90° IN EACH DIRECTION.
11. TYPE 3 GATES:
   A. CHAIN LINK FENCE HARDWARE MAY VARY SOMEWHAT FROM THAT SHOWN. ENSURE THAT THE HARDWARE AND MATERIALS USED ARE UNIFORM AND COMPATIBLE.
   B. PAINT WELDS WITH ITD PAINT FORMULA NO. 2.
   C. CLEAR THE GROUND NEAR THE GATE SO THAT THE GATE CAN SWING 90° IN EACH DIRECTION.
12. DRAWING NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED DECEMBER 6, 2016 13683 RYAN D. LANCASTER

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DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

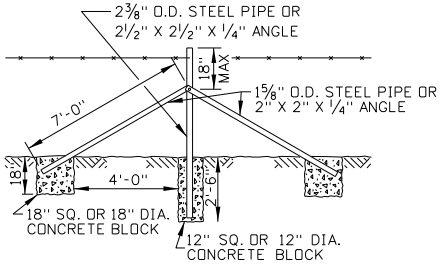
GATES

REQUIRES STD. DWGS. 610-1 & 610-3

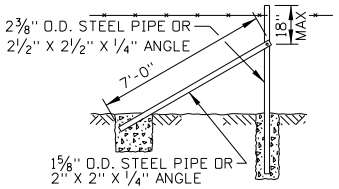
English

STANDARD DRAWING NO. 610-2

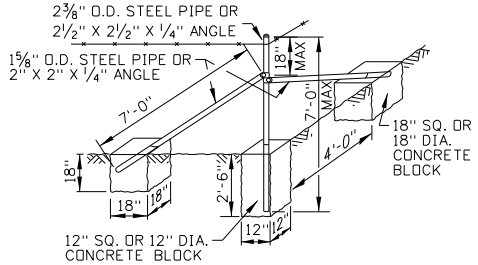
SHEET 2 OF 2



LINE BRACE



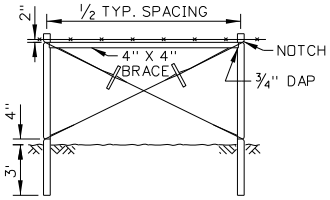
TERMINAL BRACE



CORNER BRACE

METAL BRACES

BRACE SPACING TABLE			
FENCE TYPE	DISTANCE BETWEEN BRACES	METAL BRACES	WOOD BRACES
1, 5, & 9	<66'	NONE	NONE
	66' TO 660'	SINGLE	SINGLE
	660' TO 990'	DO NOT EXCEED 660'	DOUBLE
3	<33'	NONE	NONE
	33' TO 330'	SINGLE	SINGLE
	330' TO 660'	DO NOT EXCEED 330'	DOUBLE
4	INTEGRATED INTO CHAIN LINK FENCE		



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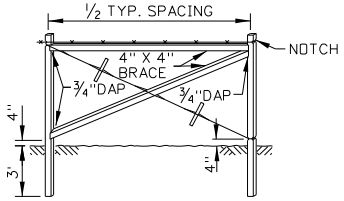
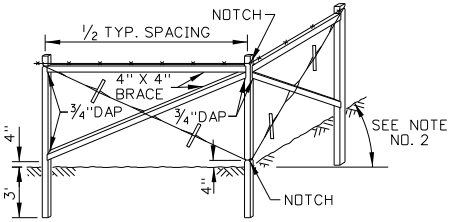
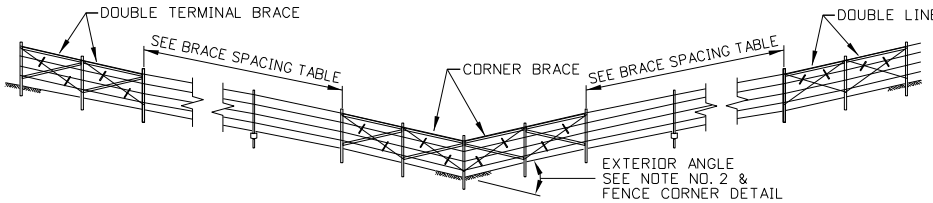


TERMINAL BRACE

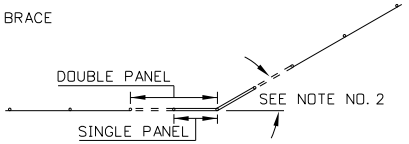


CORNER BRACE

WOOD BRACES



WOOD DOUBLE BRACE PANELS



FENCE CORNER DETAIL

NOTES

1. USE METAL BRACES WHEN METAL FENCE POSTS ARE USED. USE WOOD BRACES WHEN WOOD FENCE POSTS ARE USED.
2. USE DOUBLE WOOD CORNER BRACES WHEN THE EXTERIOR FENCE CORNER ANGLE EXCEEDS 30°. INSTALL DOUBLE LINE AND TERMINAL BRACES IN ACCORDANCE WITH THE FENCE BRACE TABLE.
3. SEE THE BRACE SPACING TABLE FOR THE MAXIMUM DISTANCES BETWEEN BRACES.

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DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

FENCE BRACES

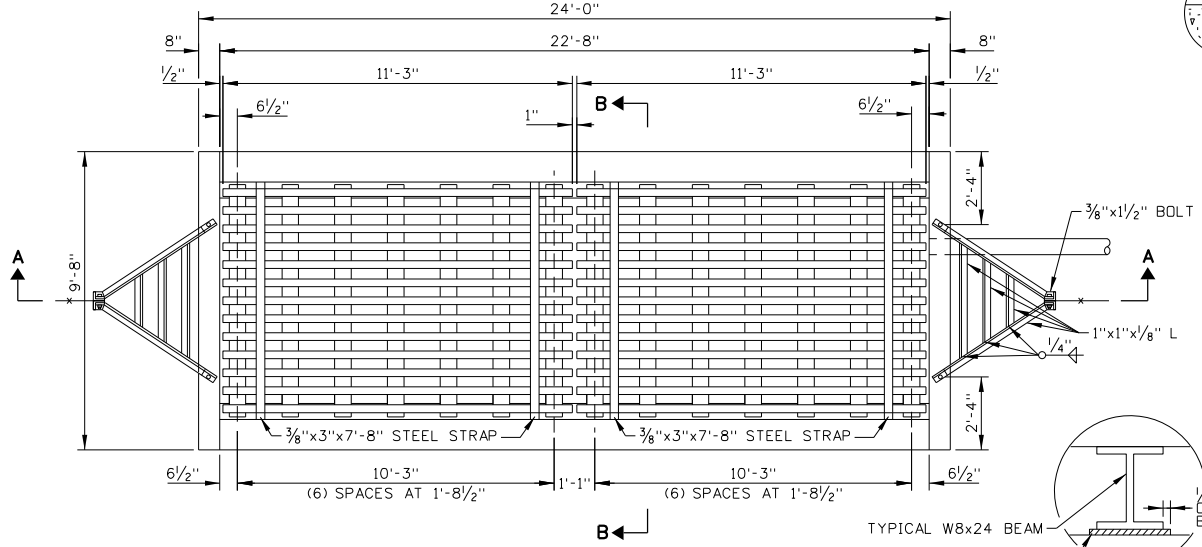
REQUIRES STD. DWG. 610-1

English

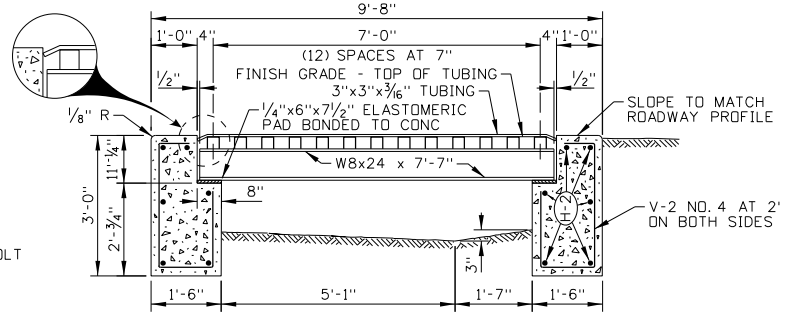
STANDARD DRAWING NO.

610-3

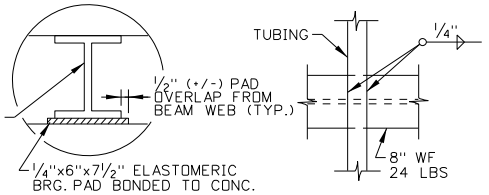
SHEET 1 OF 1



PLAN



SECTION B-B

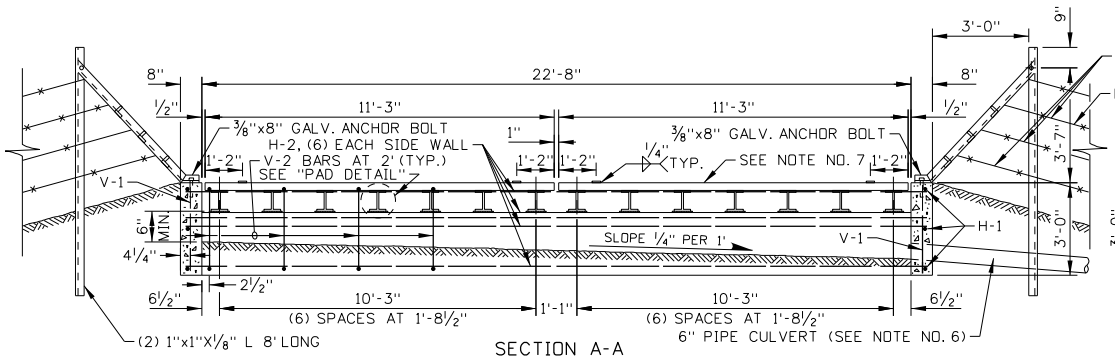


PAD DETAIL
(SEE NOTE NO. 3)

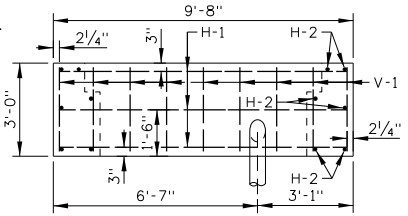
TYPICAL WELD DETAIL

REINFORCEMENT STEEL				
MARK	LOCATION	SIZE NO.	BAR LENGTH	NO. REQ'D
V-1	END WALLS	4	2'-8"	18
V-2	SIDE WALLS	4	6'-0"	11
H-1	END WALLS	4	9'-4"	6
H-2	SIDE WALLS (TIE BARS)	4	23'-8"	12
454 LIN. FT. NO.4 BARS @ 0.668 LB./FT.= 304 LB.				

BILL OF MATERIALS	
CONCRETE, CLASS 30	8.2 C.Y.
METAL REINFORCEMENT	304 LBS
STRUCTURAL STEEL	4600 LBS



SECTION A-A



END VIEW

NOTES

1. ENSURE THAT CATTLE GUARD MEETS THE REQUIREMENTS OF SECTION 611 - CATTLE GUARDS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. ENSURE THAT THE EXPOSED STEEL SURFACES ARE BLASTED CLEAN TO AN SSPC SP-10 AND PAINTED WITH PAINT SYSTEM D IN ACCORDANCE WITH SECTION 627 - PAINTING OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. ENSURE THAT THE CATTLE GUARD AND SUPPORTS ARE DESIGNED FOR HS-25 LOADING. ENSURE THAT THE ELASTOMERIC BEARING PADS ARE 50 DUROMETER IN HARDNESS.
4. PLACE THE CATTLE GUARD ON BASE AGGREGATE, 3" MINIMUM THICKNESS OVER HAND LEVELED SOIL COMPACTED TO 95% DENSITY.
5. GALVANIZE CATTLE GUARD HARDWARE FASTENERS.
6. GRADE TO DRAIN.
7. PLACE THE CATTLE GUARD TO MATCH THE ROADWAY SLOPE, CROWN, OR BOTH.
8. ALTERNATE CATTLE GUARD DESIGNS MAY BE USED. PRIOR APPROVAL, BY THE ENGINEER, OF SHOP DRAWINGS IS REQUIRED FOR THE USE OF ALTERNATE CATTLE GUARDS.
9. NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 DECEMBER 17, 2012 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-72		6	5-95	IJR	11	12-12	RDL
2	12-73		7	1-00	MSM			
3	2-74		8	9-02	MSM			
4	3-81		9	10-05	MSM			
5	6-81		10	08-11	RSC			

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 611-1_1212.dgn

DRAWING DATE: JANUARY, 1971

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

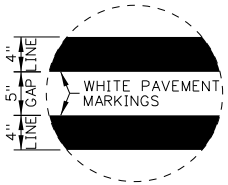
STANDARD DRAWING

CATTLE GUARD TYPE A

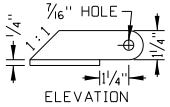
English

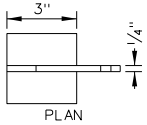
STANDARD DRAWING NO. 611-1

SHEET 1 OF 1

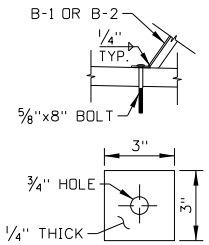


MARKINGS DETAIL

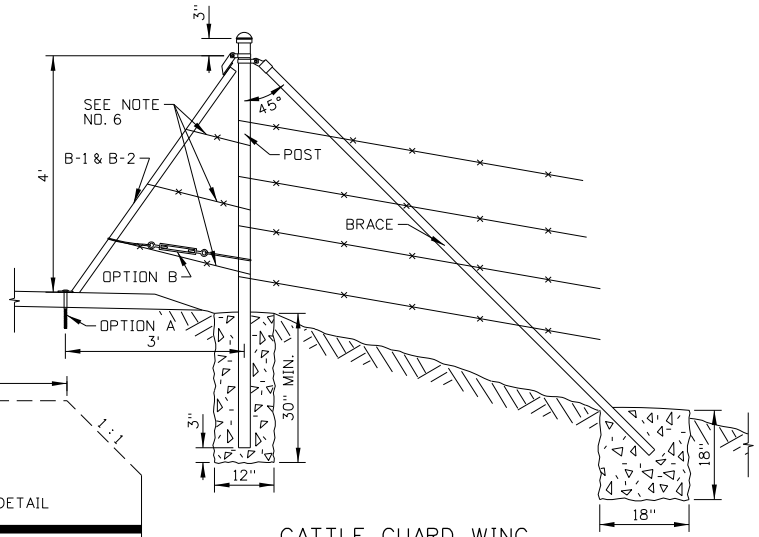




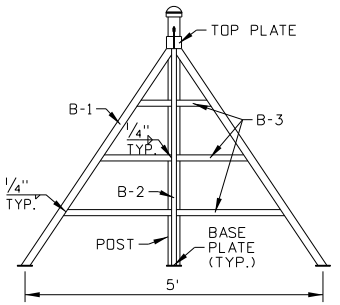
WING TOP PLATE DETAIL



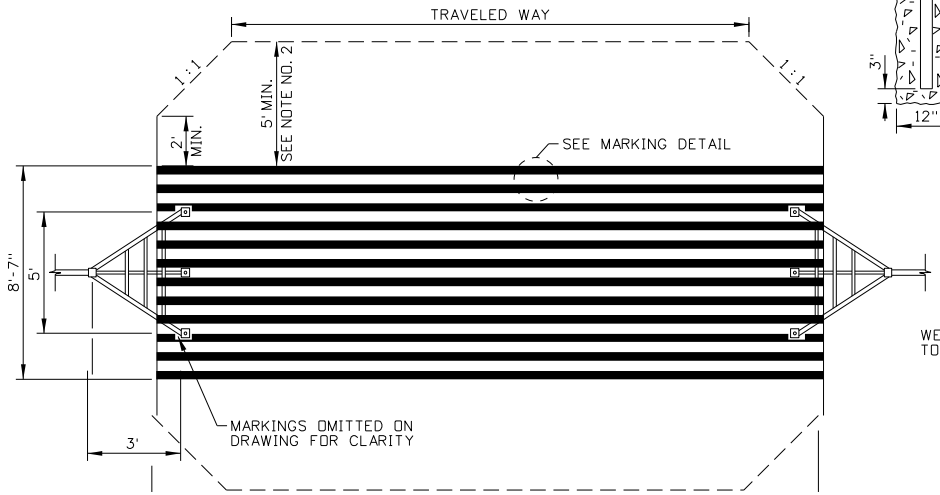
WING BASE PLATE DETAIL



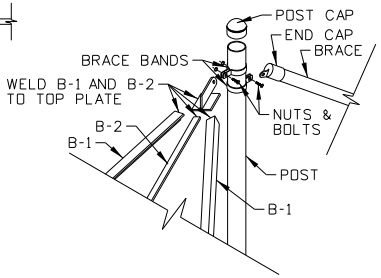
CATTLE GUARD WING



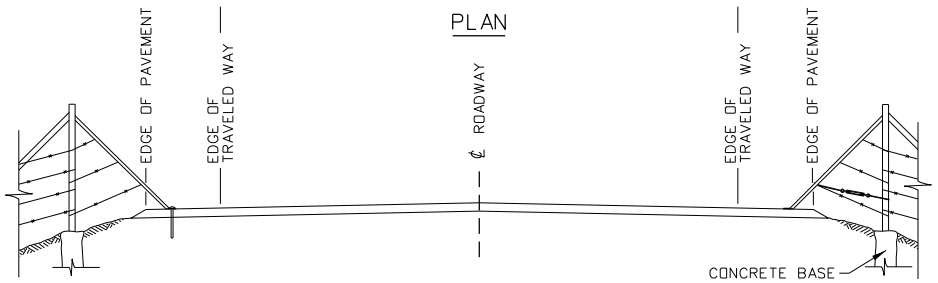
CATTLE GUARD WING ELEVATION



PLAN



ISOMETRIC VIEW



OPTION A SHOWN

ELEVATION

OPTION B SHOWN

MATERIALS TABLE		
COMPONENT	QUANTITY	SIZE
POST	2	2 3/8" DIA. x 8'-0"
BRACE	2	1 5/8" DIA. x 10'-0"
B-1: WING SIDE LEGS	4	1 1/2"x1 1/2"x1/4"x68" ANGLE
B-2: WING CENTER LEG	2	1"x1/4"x60" FLAT
B-3: WING CROSS BARS	2	1 1/2"x1 1/2"x1/4" ANGLE 16", 31", & 46" LENGTHS
WING BASE PLATE	6	3"x3"x1/4"
WING TOP PLATE	2	SEE DETAIL
BRACE BAND	4	2 3/8" DIA.
POST CAP	2	2 3/8" DIA.
BRACE END CAP	2	1 5/8" DIA.
NUTS & BOLTS	4	5/16"x1 1/4" BOLT AND NUT
BASE BOLTS (OPTION A)	6	5/8"x8"
TURNBUCKLE (OPTION B)	2	3/8"

NOTES

1. IF THE CATTLE GUARD IS CONSTRUCTED ON A PAVED ROAD WITH PAVEMENT MARKINGS, TERMINATE OR OBLITERATE THE LONGITUDINAL PAVEMENT MARKINGS 25 FEET FROM THE CATTLE GUARD MARKINGS.
2. IF THE CATTLE GUARD IS CONSTRUCTED ON AN UNPAVED ROAD, PAVE THE CATTLE GUARD AREA AND EXTEND PAVEMENT A MINIMUM OF FIVE FEET BEYOND WHERE THE CATTLE GUARD IS TO BE MARKED.
3. MARK THE CATTLE GUARD PRIOR TO ATTACHING THE CATTLE GUARD WINGS. USE WHITE WATERBORNE PAINT OR THERMOPLASTIC PAVEMENT MARKINGS. MARK A MINIMUM OF EIGHT LINES.
4. SECURE THE CATTLE GUARD WINGS TO PAVEMENT WITH ONE OF THE FOLLOWING OPTIONS:
   OPTION A:
   INSERT 5/8"x8" BOLTS INTO PRE-DRILLED HOLES IN THE PAVEMENT. ENSURE THAT THE BOLT HEAD IS FLUSH WITH THE BASE PLATE.
   OPTION B:
   PLACE A 3/8" TURNBUCKLE FASTENED WITH 10 GAUGE OR THICKER WIRE BETWEEN THE WING CENTER MEMBER (B-2) AND THE BRACE POST. TIGHTEN TURNBUCKLE TO PRESS WING FEET TO ROADWAY PAVEMENT.
5. PAINT THE CATTLE GUARD WINGS YELLOW WITH ITD PAINT SYSTEM C.
6. TIE A MINIMUM OF THREE BARBED WIRES FROM THE POST TO THE INTERSECTIONS OF THE WING B-1 AND B-3 ANGLE BARS.
7. DRAWINGS NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED JUNE 27, 2016 RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-04	MSM	6	06-18	HEB			
2	10-05	MSM						
3	12-12	RDL						
4	12-15	RDL						
5	05-16	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 611-2_0618.dgn

DRAWING DATE: JANUARY, 2004

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

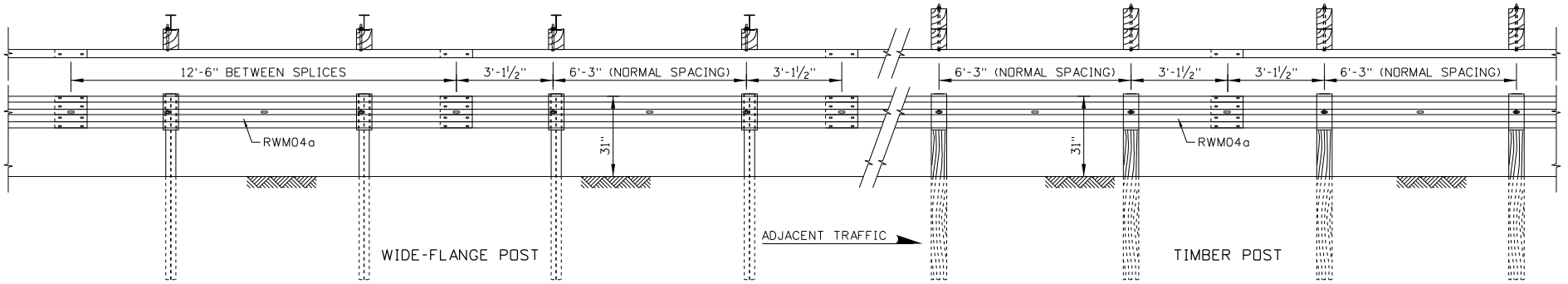
STANDARD DRAWING

CATTLE GUARD PAVEMENT MARKINGS

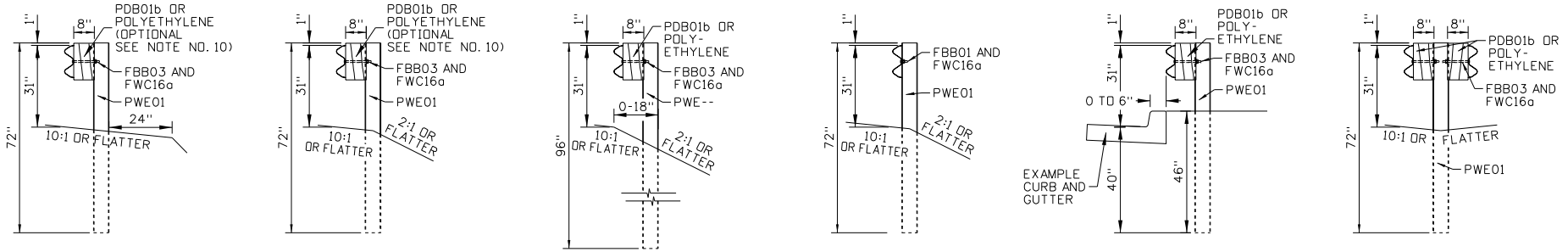
English

STANDARD DRAWING NO. 611-2

SHEET 1 OF 1

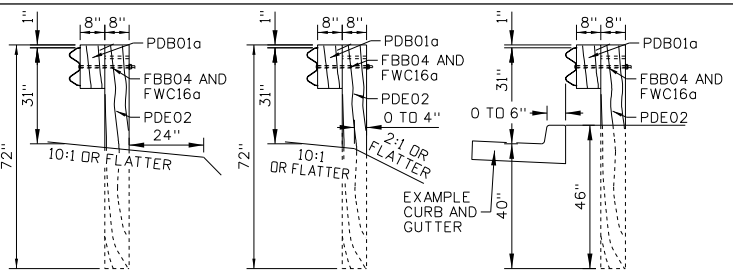


31" W-BEAM GUARDRAIL



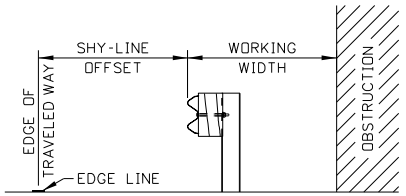
WIDE-FLANGE POST APPLICATIONS

SEE NOTE NOS. 3 AND 11



TIMBER POST APPLICATIONS

SEE NOTE NOS. 3 AND 11



PLACEMENT DETAIL

SEE NOTE NOS. 4 THROUGH 7

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"
½ SPACING	3'-1½"	46"
¼ SPACING	1'-6¾"	38"
STEEP SLOPE	6'-3"	56"
HINGE POINT	6'-3"	78"
LONG SPAN	≤ 25'	96"

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY MARCH 10, 2020 13683 RYAN D. LANCASTER

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

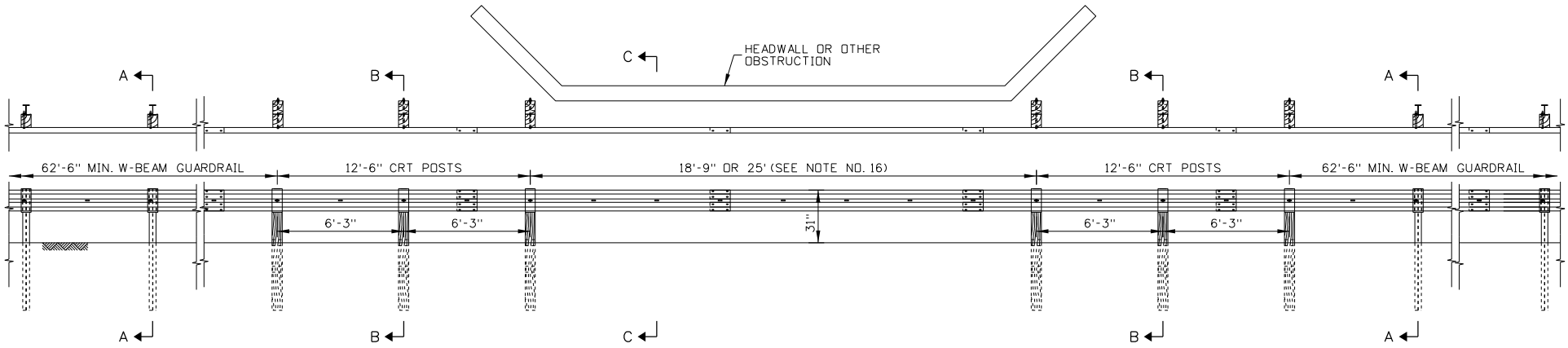
STANDARD DRAWING

31" W-BEAM GUARDRAIL

English

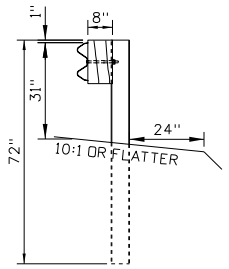
STANDARD DRAWING NO. 612-1

SHEET 1 OF 5

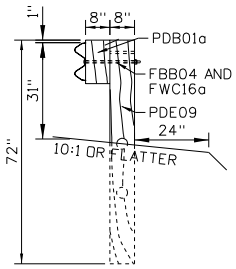


31" LONG-SPAN APPLICATION

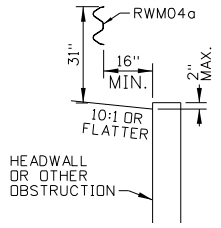
SEE NOTE NOS. 17 AND 18



SECTION A-A
WIDE-FLANGE OR TIMBER POST



SECTION B-B



SECTION C-C

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY MARCH 10, 2020 ORIGINAL SIGNED 13683 RYAN D. LANCASTER

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

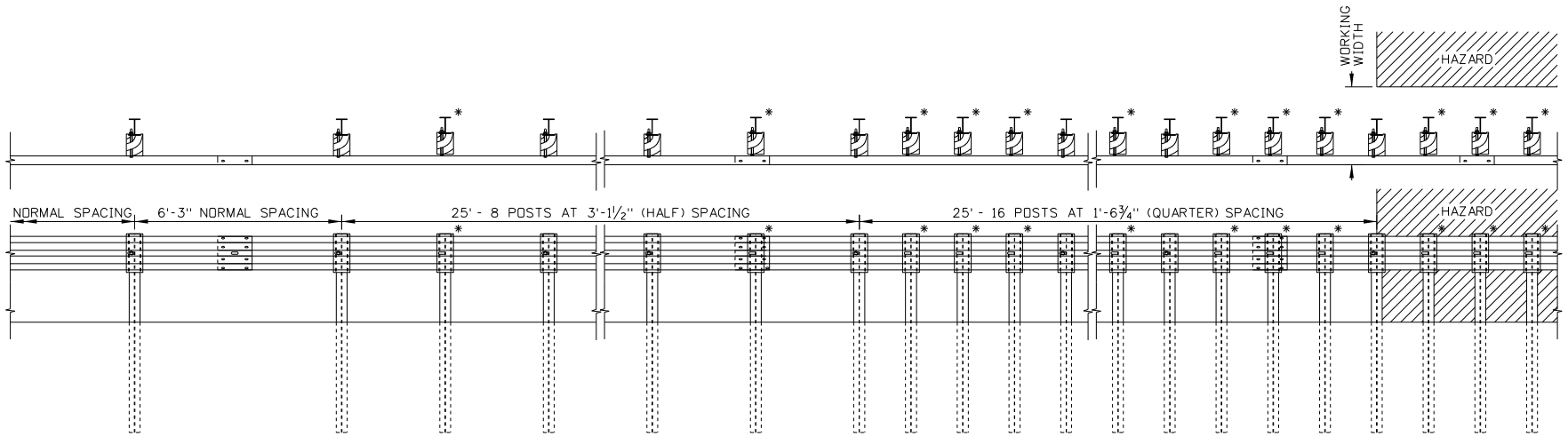
31" W-BEAM GUARDRAIL

English

STANDARD DRAWING NO.

612-1

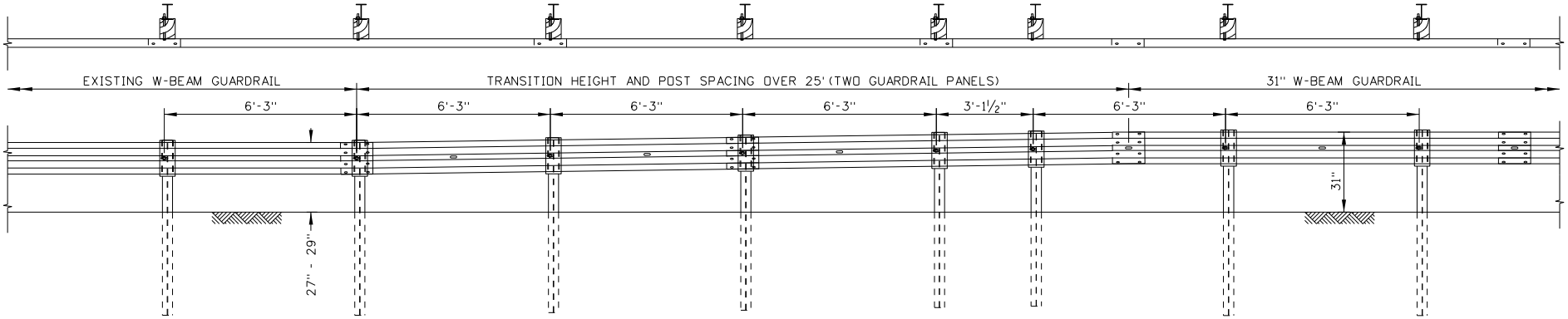
SHEET 2 OF 5



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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY MARCH 10, 2020 13683 RYAN D. LANCASTER

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

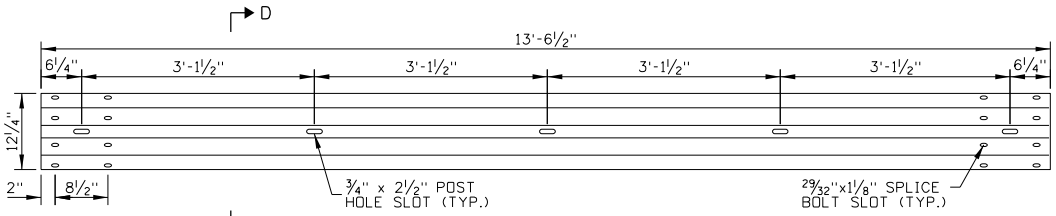
STANDARD DRAWING

31" W-BEAM GUARDRAIL

English

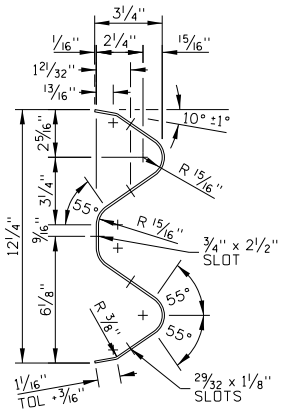
STANDARD DRAWING NO. 612-1

SHEET 3 OF 5



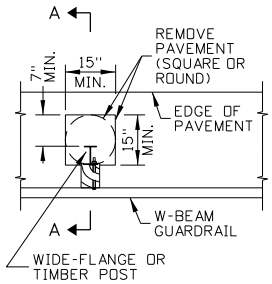
4-SPACE W-BEAM GUARDRAIL

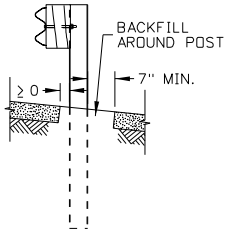
RWM04a



SECTION D-D

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

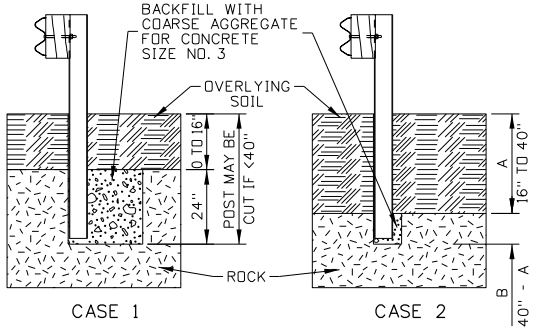




SECTION A-A

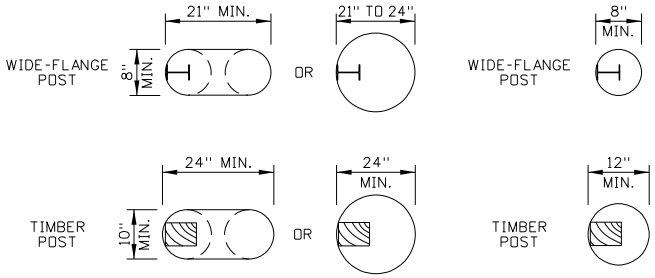
GUARDRAIL POST IN PAVEMENT

SEE NOTE NO. 9



GUARDRAIL POST IN ROCK FORMATION

SEE NOTE NO. 9



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						

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

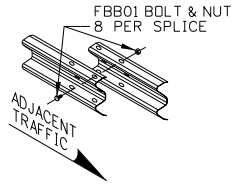
31" W-BEAM GUARDRAIL

English

STANDARD DRAWING NO. 612-1

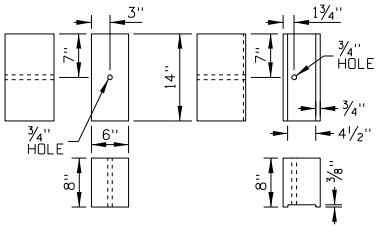
SHEET 4 OF 5

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO ORIGINAL SIGNED BY MARCH 10, 2020 13683 RYAN D. LANCASTER



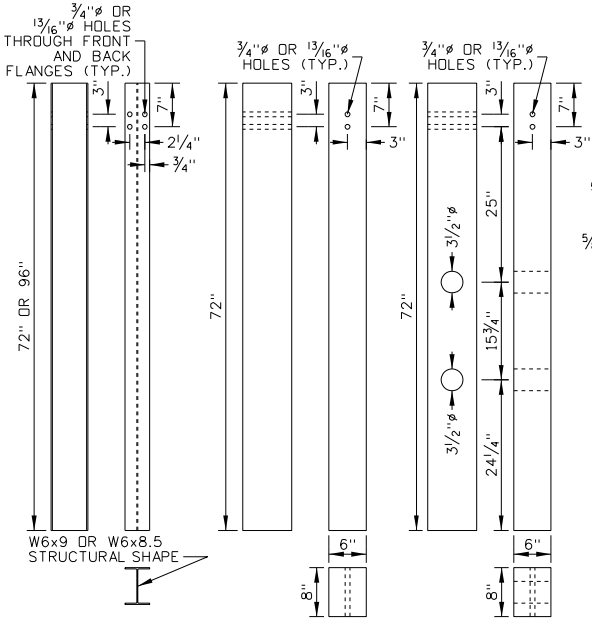
W-BEAM SPLICE DETAIL

SEE NOTE NO. 14



PDB01a PDB01b

W-BEAM TIMBER BLOCKOUTS

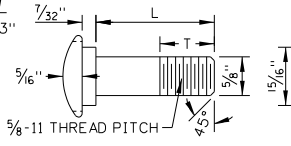


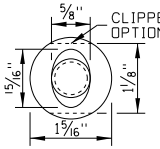
WIDE-FLANGE PWE01, PWE--

TIMBER PDE02, PDE--

CRT TIMBER POST PDE09

GUARDRAIL POSTS

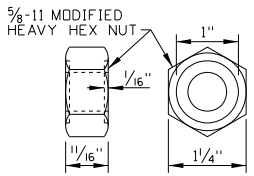




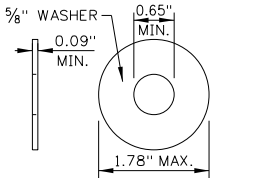
BOLT DIMENSION TABLE		
DESIGNATOR	L	T
FBB01	1¼"	1⅛"
FBB03	10"	1¾"
FBB04	18"	4"

GUARDRAIL BOLT (BUTTON-HEADED)

FBB01, FBB03, FBB04



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 APPLICATON 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.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 PROFESSIONAL SEAL MARCH 10, 2020 RYAN D. LANCASTER

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

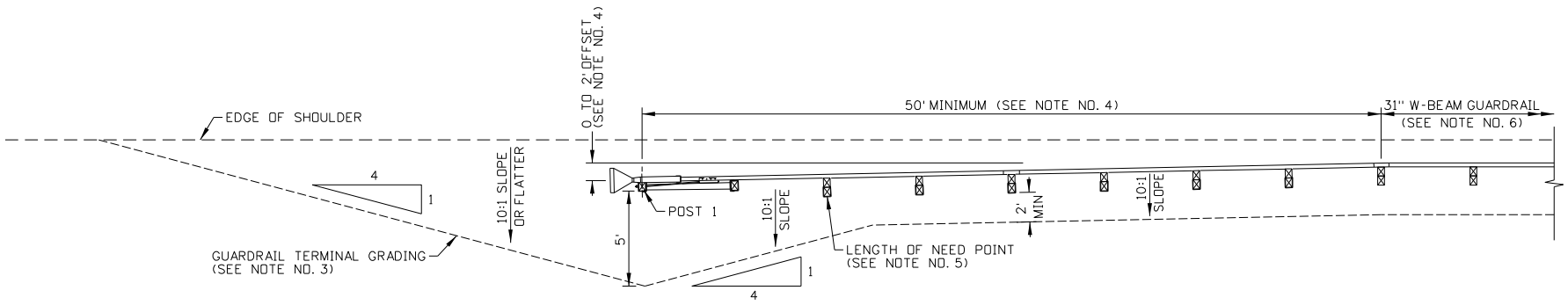
STANDARD DRAWING

31" W-BEAM GUARDRAIL

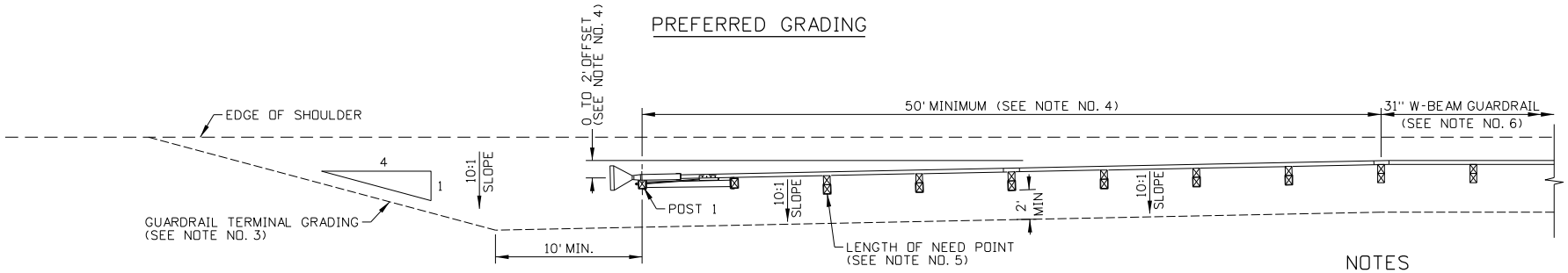
English

STANDARD DRAWING NO. 612-1

SHEET 5 OF 5



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.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 MARCH 18, 2010 PROFESSIONAL SEAL SIGNED STATE OF IDAHO RYAN D. LANCASTER

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

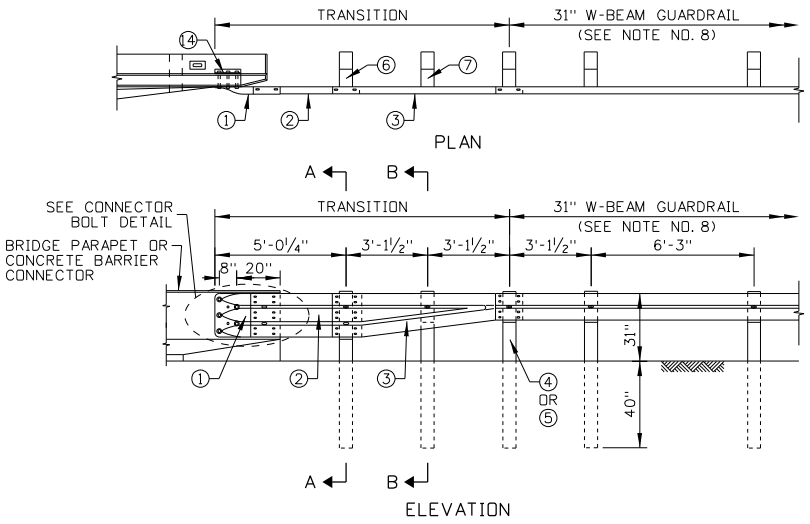
STANDARD DRAWING

GUARDRAIL TERMINAL TANGENT

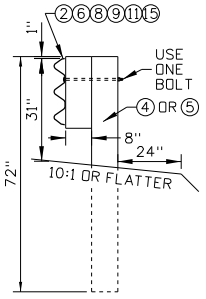
English

STANDARD DRAWING NO. 612-8

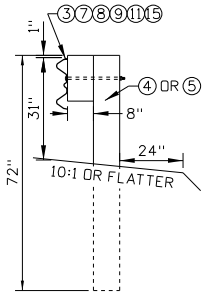
SHEET 1 OF 1



LOW SPEED GUARDRAIL TRANSITION



SECTION A-A



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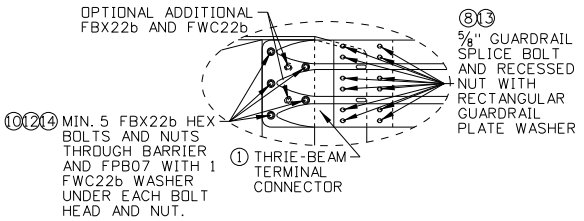
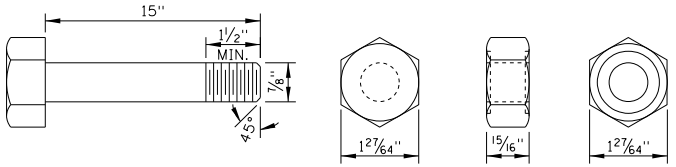
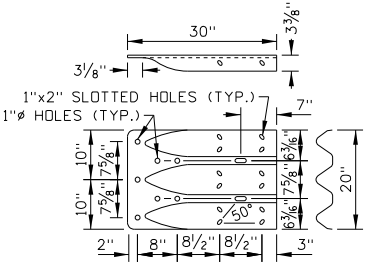


CONNECTOR BOLT DETAIL



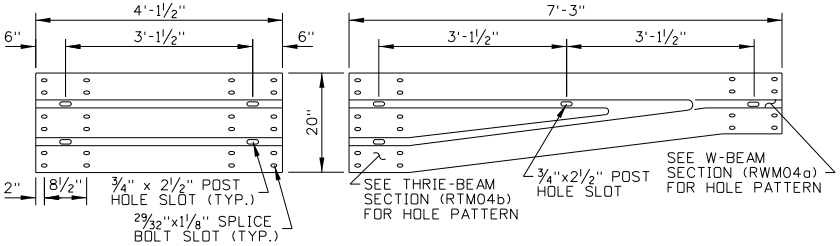
⑩ STRUCTURAL HEX BOLT AND NUT

FBX22b



THRIE-BEAM
① TERMINAL CONNECTOR

RTE01b (10 GAUGE)

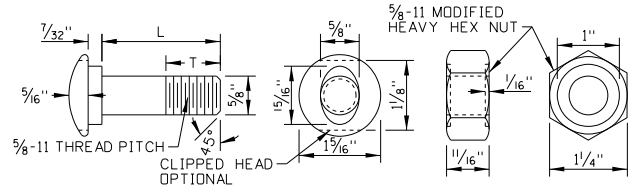


4-SPACE THRIE-
② BEAM GUARDRAIL

RTM04b (10 GAUGE)

ASYMMETRICAL W-THRIE
③ BEAM TRANSITION SECTION

RWT01b (10 GAUGE)



BOLT DIMENSION TABLE		
DESIGNATOR	L	T
FBB01	1¼"	1⅛"
FBB03	10"	4"
FBB04	18"	4"

⑧⑨ GUARDRAIL BOLT AND RECESSED NUT

FBB01, FBB03, FBB04

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED BY MARCH 10, 2020 ORIGINAL SIGNED

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	02-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 612-10_0420.dgn

DRAWING DATE: JUNE, 2017

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

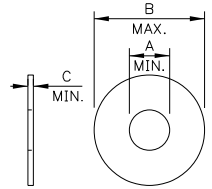
STANDARD DRAWING

GUARDRAIL TRANSITION LOW SPEED

English

STANDARD DRAWING NO. 612-10

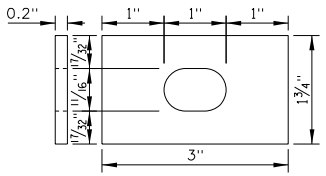
SHEET 1 OF 2



WASHER DIMENSION TABLE			
DESIGNATOR	A	B	C
FWC16a	0.649"	1.780"	0.090"
FWC22b	0.938"	1.780"	0.136"

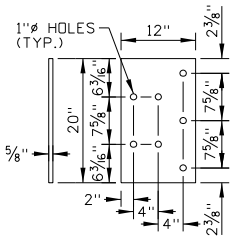
⑪⑫ ROUND WASHERS

FWC16a, FWC22b



⑬ RECTANGULAR GUARDRAIL PLATE WASHER

FWR03



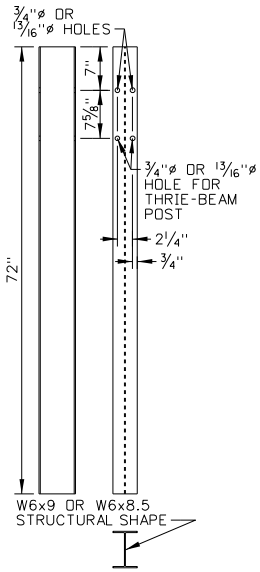
⑭ THRIE-BEAM TERMINAL CONNECTOR PLATE

FPB07

LOW SPEED GUARDRAIL TRANSITION HARDWARE COMPONENTS TABLE				
ITEM NO.	COMPONENT DESCRIPTION	QTY.	WIDE-FLANGE POST	TIMBER POST
①	THRIE-BEAM TERMINAL CONNECTOR	1	RTE01b	RTE01b
②	4-SPACE THRIE-BEAM GUARDRAIL	1	RTM04b	RTM04b
③	ASYMMETRICAL W-THRIE BEAM TRANSITION SECTION	1	RWT01b	RWT01b
④	72" WIDE-FLANGE GUARDRAIL POST	3	PWE01	-
⑤	72" TIMBER GUARDRAIL POST	3	-	PDE02
⑥	THRIE-BEAM BLOCKOUT	1	PDB02b OR POLYETHYLENE	PDB02a
⑦	W-BEAM BLOCKOUT	2	PDB01b OR POLYETHYLENE	PDB01a
⑧	5/8" GUARDRAIL SPLICE BOLT AND RECESSED NUT	32	FBB01	FBB01
⑨	5/8" GUARDRAIL BOLT AND RECESSED NUT	3	FBB03	FBB04
⑩	7/8" X 15" STRUCTURAL HEX BOLT & NUT	5	FBX22b	FBX22b
⑪	5/8" PLAIN ROUND WASHER	3	FWC16a	FWC16a
⑫	7/8" HARDENED ROUND WASHER	10	FWC22b	FWC22b
⑬	RECTANGULAR GUARDRAIL PLATE WASHER	12	FWR03	FWR03
⑭	THRIE-BEAM TERMINAL CONNECTOR PLATE	1	FPB07	FPB07
⑮	16D GALVANIZED NAIL	6	-	N/A

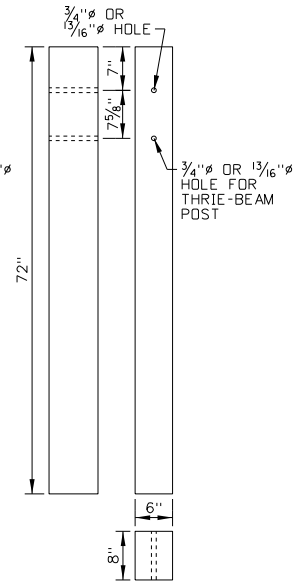
NOTES

1. THE GUARDRAIL TRANSITION SHOWN IS A MASH TEST LEVEL 2 TRANSITION. USE THE TRANSITION ON HIGHWAYS WHERE THE POSTED SPEED LIMIT IS 40 MPH OR LESS AND WHERE A SEMI-RIGID GUARDRAIL, SUCH AS 31" W-BEAM GUARDRAIL, JOINS A RIGID BARRIER, SUCH AS A BRIDGE RAIL, BRIDGE PARAPET OR CONCRETE BARRIER.
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. WIDE-FLANGE OR TIMBER POSTS MAY BE USED UNLESS OTHERWISE INDICATED. USE THE SAME POST MATERIAL AS IN THE ADJOINING 31" W-BEAM GUARDRAIL.
4. USE TIMBER OR POLYETHYLENE BLOCKOUTS WITH WIDE-FLANGE POSTS. USE TIMBER BLOCKOUTS WITH TIMBER POSTS.
5. NAIL TIMBER BLOCKOUTS TO TIMBER POSTS TO RESTRICT BLOCK ROTATION.
6. 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.
7. OVERLAP SPLICES SO THAT THE EXPOSED W-BEAM EDGE IS DOWNSTREAM OF THE ADJACENT TRAFFIC.
8. PROVIDE A MINIMUM OF 12'-6" OF 31" W-BEAM GUARDRAIL BETWEEN THE GUARDRAIL TRANSITION AND A GUARDRAIL TERMINAL OR ANCHOR.
9. INSTALL RECTANGULAR GUARDRAIL PLATE WASHERS UNDER GUARDRAIL NUTS AT THE SPLICE BETWEEN THE THRIE-BEAM GUARDRAIL AND THRIE-BEAM TERMINAL CONNECTOR.
10. A CONNECTOR PLATE TO KEEP THE THRIE-BEAM TERMINAL CONNECTOR IN A VERTICAL PLANE IS OPTIONAL. SEE THE DETAIL ON THE HIGH SPEED GUARDRAIL TRANSITION STANDARD DRAWING.
11. DELINEATE THE TRANSITION. SEE THE DELINEATOR STANDARD DRAWING.
12. DRAWING NOT TO SCALE.



④ WIDE-FLANGE

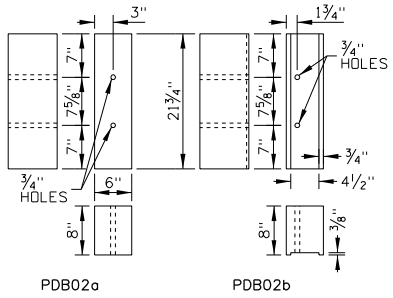
PWE01



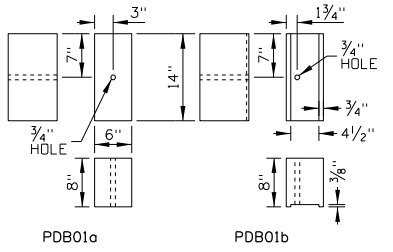
⑤ TIMBER

PDE02

GUARDRAIL POSTS



⑥ THRIE-BEAM TIMBER BLOCKOUTS



⑦ W-BEAM TIMBER BLOCKOUTS

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 PROFESSIONAL SEAL ISSUED MARCH 10, 2020 SIGNED RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	08-18	RDL						
2	02-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 612-10_0420.dgn

DRAWING DATE: JUNE, 2017

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

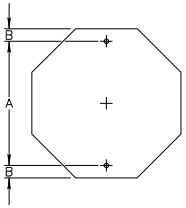
STANDARD DRAWING

GUARDRAIL TRANSITION LOW SPEED

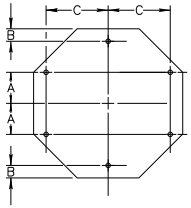
English

STANDARD DRAWING NO. 612-10

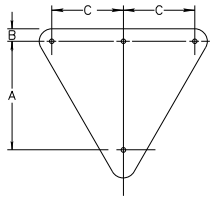
SHEET 2 OF 2



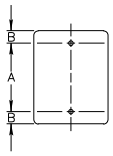
SIGN SIZE	A	B
30"X30"	24"	3"



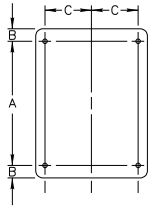
SIGN SIZE	A	B	C
36"X36"	8"	3"	12"
48"X48"	10"	—	20"



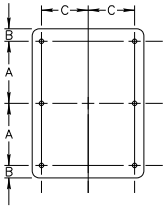
SIGN SIZE	A	B	C
30"X30"	18"	3"	—
36"X36"	23"	3"	—
48"X48"	25"	3"	17"
60"X60"	35"	4"	23"



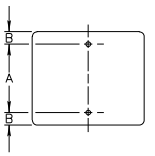
SIGN SIZE	A	B
6"X12"	9"	1½"
6"X18"	15"	1½"
9"X12"	9"	1½"
12"X18"	15"	1½"
12"X30"	24"	3"
12"X36"	32"	2"
18"X24"	18"	3"
24"X30"	24"	3"
24"X36"	30"	3"
30"X36"	30"	3"



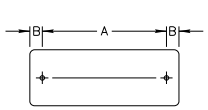
SIGN SIZE	A	B	C
36"X36"	30"	3"	15"
36"X48"	42"	3"	15"
48"X30"	24"	3"	15"
48"X36"	30"	3"	15"
60"X36"	30"	3"	21"



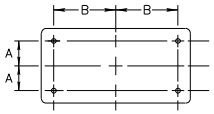
SIGN SIZE	A	B	C
48"X60"	27"	3"	15"



SIGN SIZE	A	B
12"X6"	3"	1½"
18"X9"	6"	1½"
18"X12"	9"	1½"
18"X18"	15"	1½"
21"X15"	12"	1½"
24"X6"	3"	1½"
24"X10"	7"	1½"
24"X12"	9"	1½"
24"X18"	15"	1½"
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"



SIGN SIZE	A	B
30"X15"	24"	3"
36"X12"	30"	3"
36"X18"	24"	6"
48"X12"	42"	3"
48"X18"	42"	3"
54"X18"	48"	3"



SIGN SIZE	A	B
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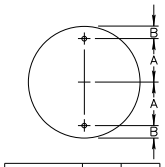
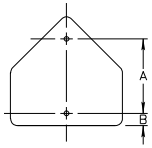
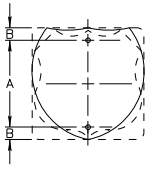


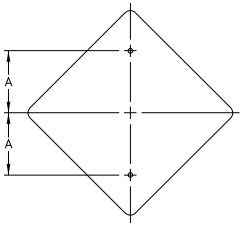
SIGN SIZE	A	B
36"	15"	3"
48"	21"	3"



SIGN SIZE	A	B
30"X30"	21"	3"
36"X36"	24"	3"



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



SIGN SIZE	A
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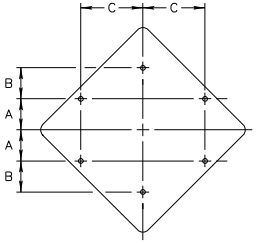
24"X24"	12"
30"X30"	15"



SIGN SIZE	A	B	C
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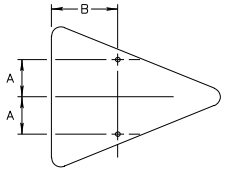
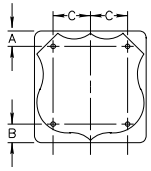
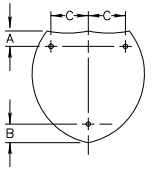
48"X48"	10"	—	20"



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:

1. ALL MOUNTING HOLES SHALL BE ⅜" DIAMETER.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED MAY 1, 2017 RYAN D. LANCASTER

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

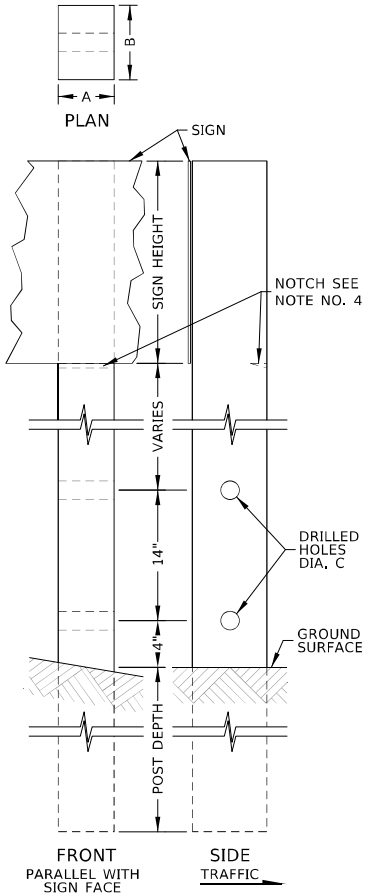
STANDARD DRAWING

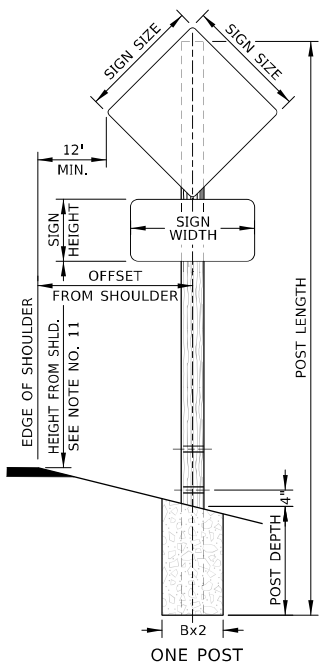
PUNCHING SCHEDULE FOR TYPE "B" OR TYPE "E" SIGNS

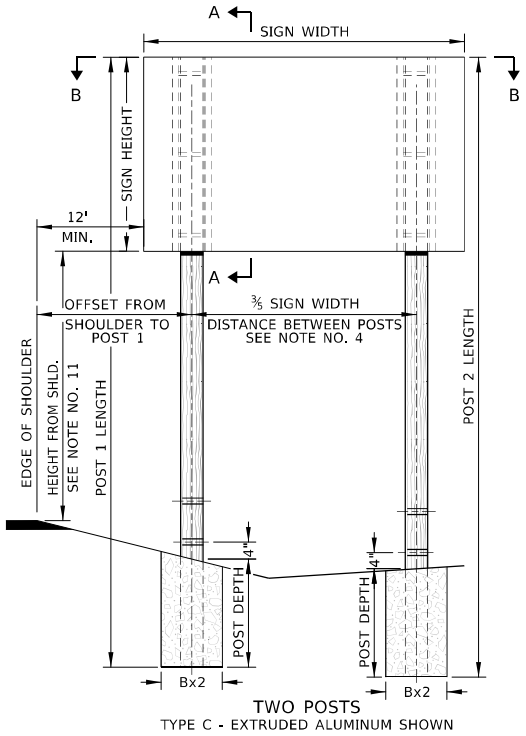
English

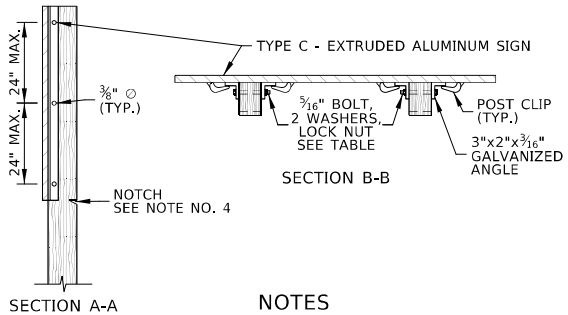
STANDARD DRAWING NO. 616-1

SHEET 1 OF 1









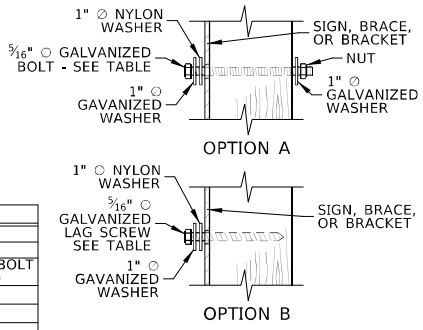
SIGN ASSEMBLY MEASUREMENTS

NOTES

1. USE TYPE D - WOOD POSTS - WITH TYPE B - SHEET ALUMINUM, TYPE C - EXTRUDED ALUMINUM PANEL, AND TYPE E - HDO PLYWOOD SIGNS.
2. SEE THE TRAFFIC MANUAL TO CALCULATE SIGN LOAD PER POST.
3. SEE PROJECT SIGN SUMMARY FOR SIGN ASSEMBLY DIMENSIONS.
4. USE ONE OR MORE TYPE D - WOOD POST. DO NOT MIX POST SIZES ON THE SAME SIGN ASSEMBLY. WHEN MULTIPLE POSTS ARE INSTALLED:
   A. NOTCH THE BACK SIDE OF THE POSTS.
   B. PROVIDE MORE THAN ⅗ SPACING BETWEEN POSTS FOR SIGNS THAT ARE NARROWER THAN 6'.
   C. PROVIDE A MINIMUM 7' DISTANCE BETWEEN POST TYPES D-3 AND D-4.
5. POST 1 IS CLOSEST TO THE HIGHWAY, WHETHER INSTALLED ON THE RIGHT OR LEFT SIDE.
6. ALIGN POST SO DIMENSION B IS PARALLEL TO THE TRAFFIC DIRECTION. ENSURE DRILLED HOLES ARE PERPENDICULAR TO TRAFFIC DIRECTION.
7. PRE-DRILL OR FIELD DRILL D-2, D-3, AND D-4 POSTS. ENSURE THE BOTTOM DRILLED HOLE IS ABOVE AND WITHIN 4" OF THE GROUND SURFACE.
8. SIGNS CAN BE MOUNTED BACK-TO-BACK IF THE SHAPE OF STOP, YIELD, OR WARNING SIGNS ARE NOT SHIELDED.
9. SIGNS ARE INSTALLED WITH OR WITHOUT BRACES OR BRACKETS DEPENDENT ON SIGN SIZE AND APPLICATION.
10. TYPE B - SHEET ALUMINUM - OR TYPE E - HDO PLYWOOD - SIGNS CAN BE AFFIXED TO THE POST OR THROUGH BRACES OR BRACKETS. FOR TYPE C - EXTRUDED ALUMINUM SIGNS, AFFIX GALVANIZED ANGLE TO POST AND CLIP SIGN TO ANGLE.
11. INSTALL SIGNS AT THE FOLLOWING HEIGHTS:
    A. IF INSTALLED IN A RURAL AREA, 5 FEET ABOVE THE PAVEMENT ELEVATION OR 4 FEET IF A SUPPLEMENTARY PLAQUE IS INSTALLED BELOW THE SIGN.
    B. 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.
12. EXCAVATE POST HOLE TWICE AS LARGE AS DIMENSION B. BACKFILL AROUND POST IN ACCORDANCE WITH SECTION 210.
13. TYPE D - WOOD POSTS DO NOT NEED TO BE SHIELDED BY GUARDRAIL OR BARRIER. WHEN WOOD POSTS ARE INSTALLED BEHIND GUARDRAIL OR BARRIER, ENSURE THE POSTS ARE OUTSIDE OF THE GUARDRAIL OR BARRIER WORKING WIDTH.
14. WHEN THE SIGN IS INSTALLED ON A BACKSLOPE, ENSURE THE SIGN POST IS AT LEAST 5' HIGHER THAN THE GROUND SURFACE.
15. DRAWING NOT TO SCALE.

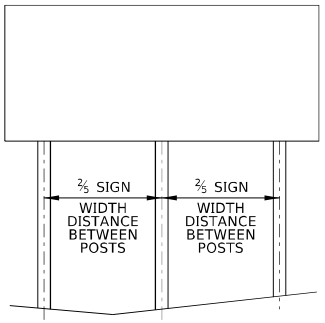
SIGN POST AND FOUNDATION TABLE

POST TYPE	TYPE D WOOD POST								
	WOOD POST SIZE			MAXIMUM SIGN LOAD (SFxFT)	NOTCH DEPTH (IN)	POST DEPTH (FT)	FASTENERS		
	A (IN)	B (IN)	C (IN)				OPT. A (IN)	OPT. B (IN)	ANGLE BOLT (IN)
D-1	4	4	-	47	-	3.5	4.5	3	4.5
D-2	4	6	1½	111	1¾	4	6.5	4	4.5
D-3	6	6	2	162	1¾	5	6.5	4	6.5
D-4	6	8	3	302	2½	6	8.5	4	6.5



FASTENER DETAIL

SEE NOTE NO. 10



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

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY Ryan D. Lancaster DATE OF ORIGINAL SIGNATURE MARCH 1, 2023 13683 STATE OF IDAHO RYAN D. LANCASTER

REVISIONS									SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT		STANDARD DRAWING	ENGLISH
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	CADD FILE NAME: 616-10_0423.dgn	YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	ORIGINAL SIGNED BY: MONICA CRIDER	WOOD SIGN POST TYPE D - WOOD POST	STANDARD DRAWING NO. 616-10
1	08-96	HEB											
2	12-13	HEB							DRAWING DATE: NOVEMBER, 1991	BOISE IDAHO	HIGHWAY DESIGN ENGINEER		SHEET 1 OF 1
3	02-23	RDL											

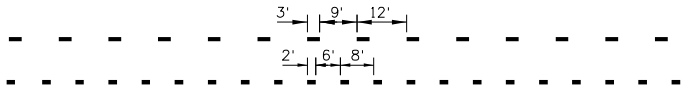
LONGITUDINAL PAVEMENT MARKING LINES

SOLID LINE
COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6") OR WIDE (2X NORMAL WIDTH)

DOUBLE LINE
COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6" LINE, 3" GAP, 4" TO 6" LINE)

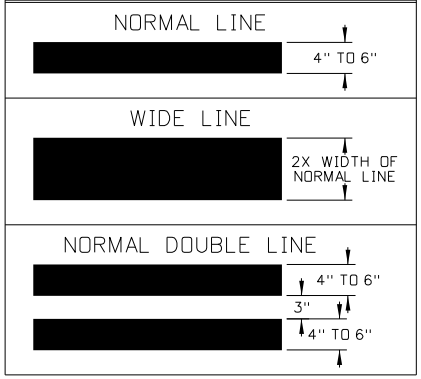
BROKEN LINE
COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6")

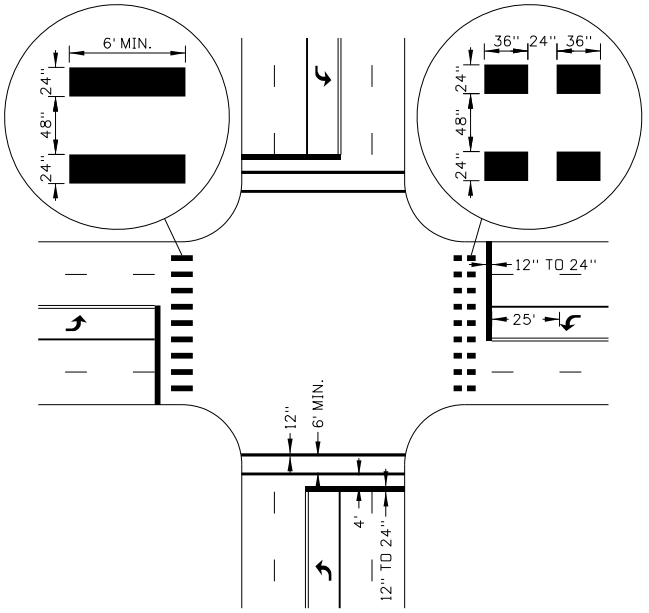
COMBINATION SOLID AND BROKEN LINE
COLOR: YELLOW
WIDTH: NORMAL (4" TO 6" LINE, 3" GAP, 4" TO 6" LINE)



DOTTED LINE
3' LINE SEGMENT, 9' GAP OR 2' LINE SEGMENT, 6' GAP (SEE NOTE NO. 2)
COLOR: WHITE OR YELLOW
WIDTH: NORMAL (4" TO 6") OR WIDE (2X NORMAL WIDTH)

LONGITUDINAL PAVEMENT MARKING LINE WIDTHS





EXAMPLE STOP LINE AND CROSSWALK DETAIL

NOTES

1. USE WHITE AND YELLOW PAVEMENT MARKINGS AS FOLLOWS:
   WHITE:
   A. THE SEPARATION OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
   B. THE RIGHT-HAND EDGE OF THE HIGHWAY.
   YELLOW:
   A. THE SEPARATION OF TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS.
   B. THE LEFT-HAND EDGE DIVIDED HIGHWAYS, ONE-WAY STREETS, OR RAMPS.
   C. TWO-WAY LEFT-TURN LANES.
2. USE LONGITUDINAL PAVEMENT MARKINGS AS FOLLOWS:
   A. USE SOLID LINES TO INDICATE THE LEFT OR RIGHT EDGE OF TRAVEL WAY OR TO DISCOURAGE LANE CHANGING.
   B. USE DOUBLE LINES TO PROHIBIT PASSING OR LANE CHANGING.
   C. USE BROKEN LINES TO INDICATE PASSING OR LANE CHANGING ARE PERMITTED. USE THE 12' LINE SEGMENT, 38' GAP PATTERN FOR ALL SPEEDS.
   D. USE COMBINATION SOLID AND BROKEN LINES TO PROHIBIT PASSING IN ONE DIRECTION WHILE PERMITTING PASSING IN THE OPPOSITE DIRECTION OR TO INDICATE A TWO-WAY LEFT-TURN LANE.
   E. USE DOTTED LINES AS FOLLOWS:
      3' LINE SEGMENT, 9' GAP:
      I. TO SEPARATE A THROUGH LANE AND A LANE THAT BECOMES A MANDATORY EXIT OR TURN LANE (DROPPED LANE).
      II. TO SEPARATE THROUGH LANES AND TURN LANES OR RAMPS.
      III. TO SEPARATE A THROUGH LANE AND AN AUXILIARY LANE 2 MILES OR LESS IN LENGTH BETWEEN FREEWAY ENTRANCE RAMP AND EXIT RAMPS OR 1 MILE OR LESS IN LENGTH BETWEEN INTERSECTIONS.
      2' LINE SEGMENT, 6' GAP:
      I. AS A LANE LINE EXTENSION THROUGH AN INTERSECTION.
3. USE 12' VEHICULAR TRAVEL LANES UNLESS OTHERWISE INDICATED. MEASURE LANE WIDTHS FROM THE CENTER OF LINE TO THE CENTER OF LINE.
4. THE PAVEMENT MARKING APPLICATION EXAMPLES PRESENTED SHOW COMMON APPLICATION. MODIFY AS NEEDED TO ACCOMODATE OTHER SITUATIONS.
5. METHODS FOR DETERMINING TURN-LANE LENGTH ARE DESCRIBED IN THE ITD TRAFFIC MANUAL.
6. USE 15W FOR POSTED SPEED LIMITS OF 45 MPH OR GREATER. USE 8W FOR POSTED SPEED LIMITS OF 40 MPH OR LESS. W IS THE OFFSET WIDTH IN FEET.
7. USE DISTANCE L WHEN PRACTICAL. USE THE FOLLOWING EQUATION TO DETERMINE L:
   $L = WS$
   WHERE:
   W = OFFSET WIDTH IN FEET
   S = POSTED SPEED LIMIT
8. USE LANE-USE ARROWS AND WORD PAVEMENT MARKINGS AS SHOWN. SOME MARKINGS ARE OPTIONAL.
   A. USE TWO OR MORE LANE-USE ARROWS UNLESS THE TURN-LANE LENGTH IS LESS THAN 75 FEET. IF SHORTER THAN 75 FEET, THE DOWNSTREAM ARROW CAN BE OMITTED.
   B. USE TWO-WAY LEFT-TURN ARROW MARKINGS NEAR THE BEGINNING OF A TWO-WAY LEFT-TURN LANE AND EVERY ½ MILE THEREAFTER.
9. BREAK EDGE AND LANE LINES AT INTERSECTIONS WITH MINOR ROADS. CONTINUE EDGE AND LANE LINES THROUGH DRIVEWAY APPROACHES.
10. ON TWO-LANE HIGHWAYS, PAINT THE CENTERLINE IN ONE DIRECTION IN ASCENDING STATION/MILEPOST DIRECTION AS SHOWN.
11. DRAWINGS NOT TO SCALE.

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED BY MARCH 17, 2017 RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	03-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0420.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

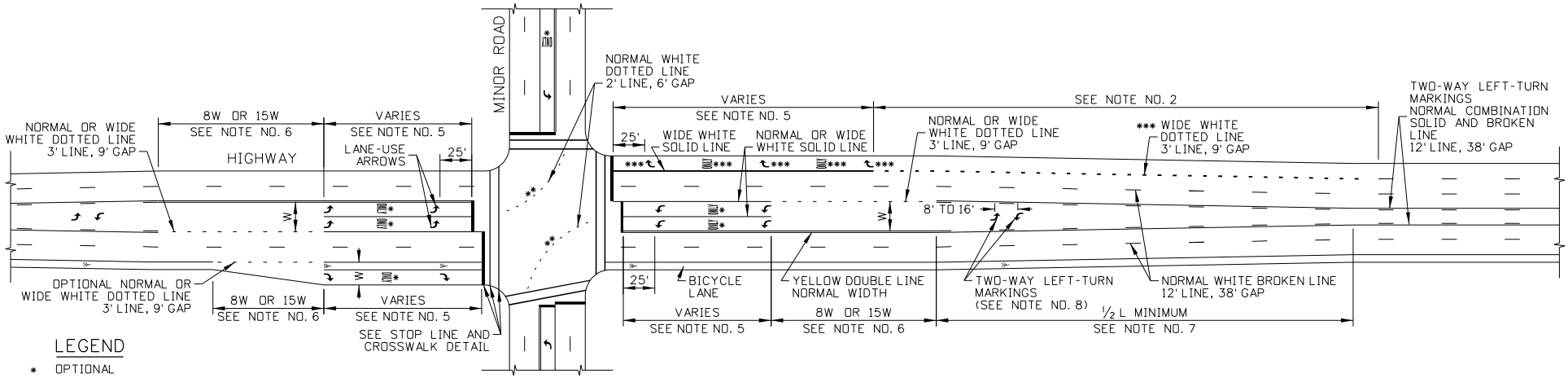
STANDARD DRAWING

PAVEMENT MARKINGS

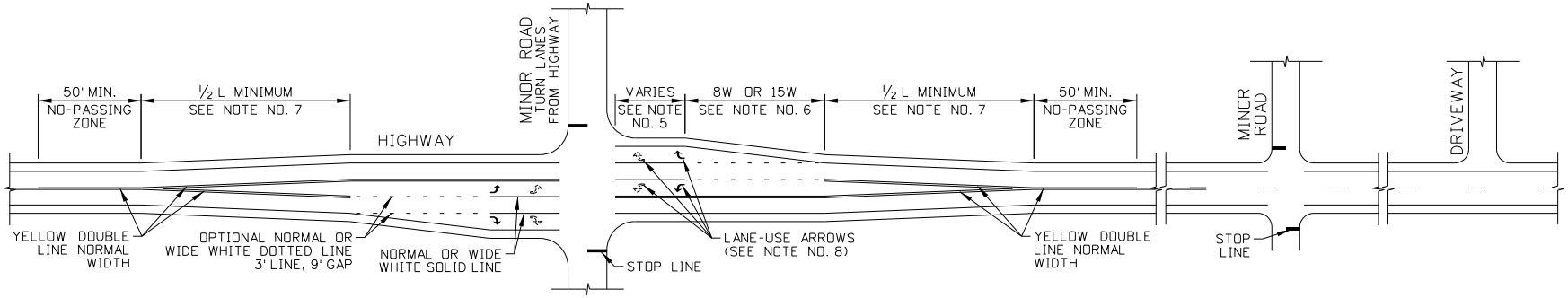
English

STANDARD DRAWING NO. 630-1

SHEET 1 OF 4



EXAMPLE URBAN HIGHWAY PAVEMENT MARKINGS



EXAMPLE RURAL HIGHWAY PAVEMENT MARKINGS
SEE NOTE NO. 9

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO MARCH 17, 2020 13683 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	03-20	RDL						

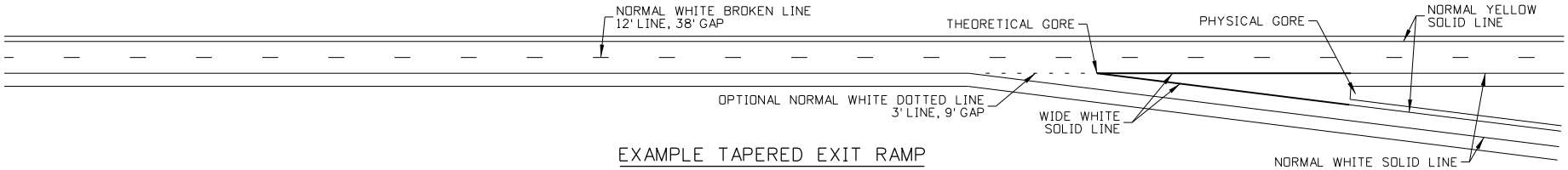
SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 630-1_0420.dgn
DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

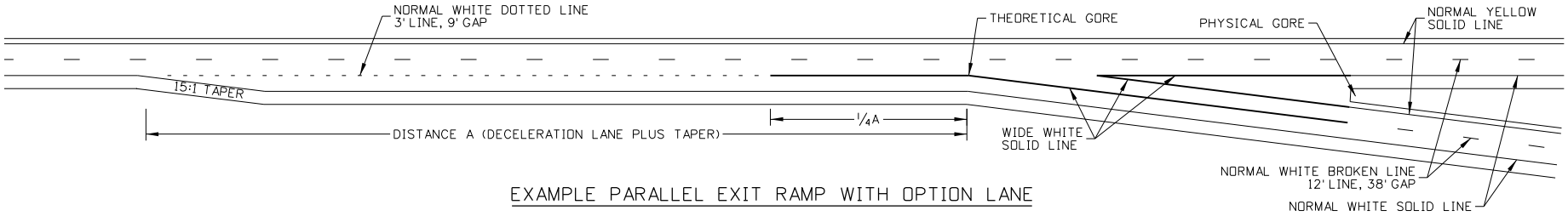
ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
PAVEMENT MARKINGS

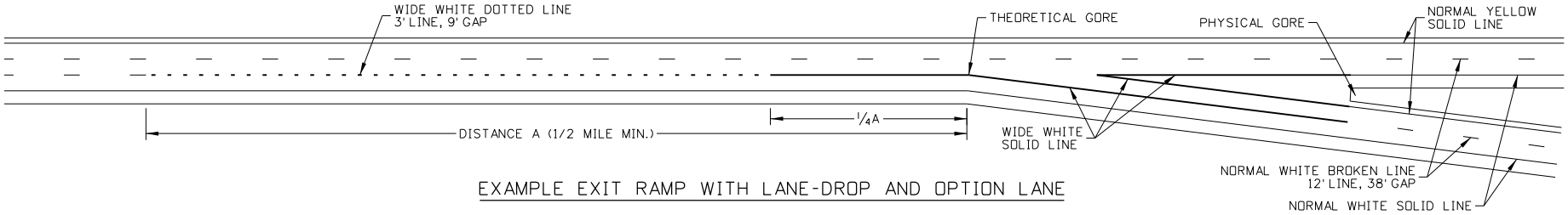
English
STANDARD DRAWING NO. 630-1
SHEET 2 OF 4



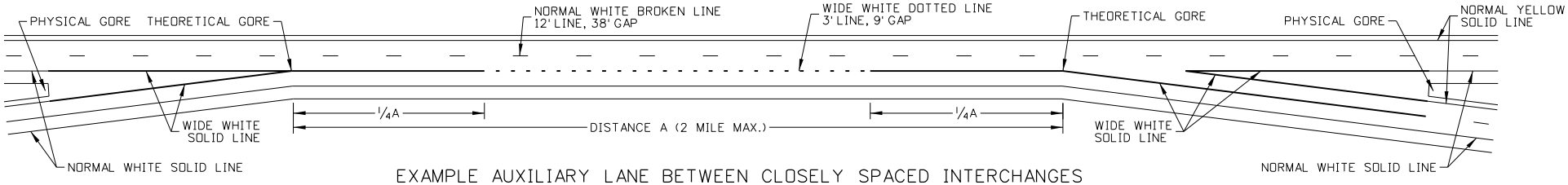
EXAMPLE TAPERED EXIT RAMP



EXAMPLE PARALLEL EXIT RAMP WITH OPTION LANE



EXAMPLE EXIT RAMP WITH LANE-DROP AND OPTION LANE



EXAMPLE AUXILIARY LANE BETWEEN CLOSELY SPACED INTERCHANGES

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 ORIGINAL SIGNED BY RYAN D. LANCASTER MARCH 17, 2017

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	03-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0420.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

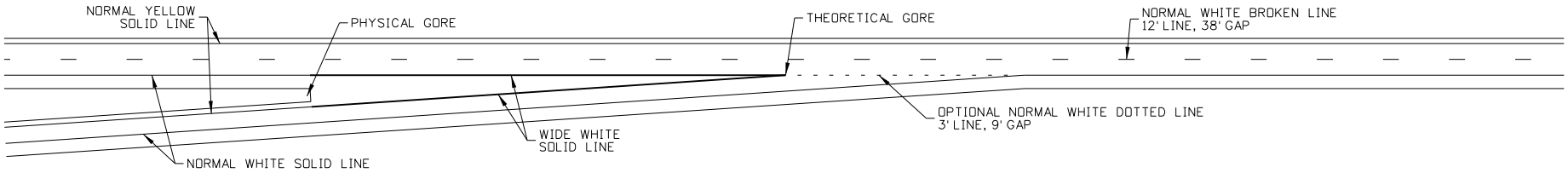
STANDARD DRAWING

PAVEMENT MARKINGS

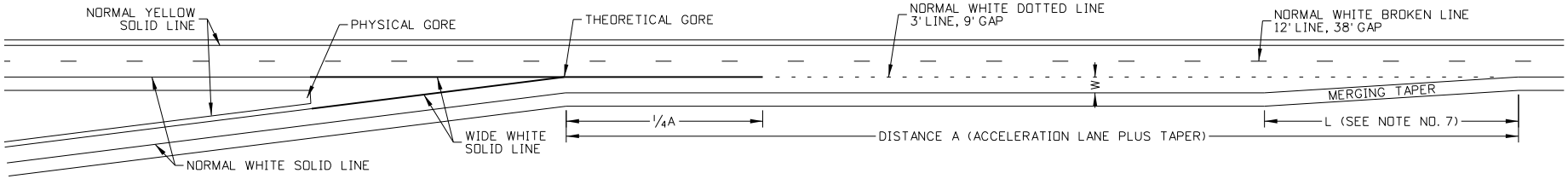
English

STANDARD DRAWING NO. 630-1

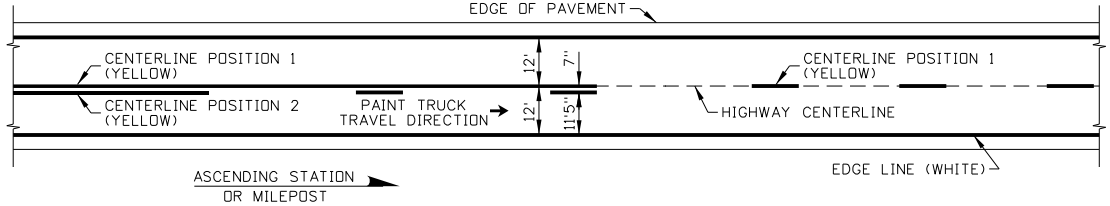
SHEET 3 OF 4



EXAMPLE TAPERED ENTRANCE RAMP

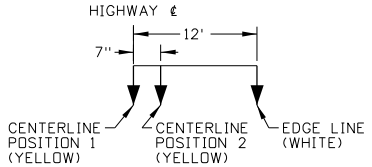


EXAMPLE PARALLEL ENTRANCE RAMP



PAVEMENT MARKINGS
ON TWO-WAY HIGHWAYS

SEE NOTE NO. 10 AND
PAINT TRUCK SETUP DETAIL



PAINT TRUCK SETUP DETAIL

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

PROFESSIONAL ENGINEER LICENSED RYAN D. LANCASTER STATE OF IDAHO 13683 MARCH 17, 2017 ORIGINAL SIGNED BY RYAN D. LANCASTER

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	03-20	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 630-1_0420.dgn

DRAWING DATE: DECEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

PAVEMENT MARKINGS

English

STANDARD DRAWING NO. 630-1

SHEET 4 OF 4

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND SHEET
3	SURVEY CONTROL MAP
4	TOTAL OWNERSHIP MAP
5	RIGHT-OF-WAY PLAN SHEET 1
6	RIGHT-OF-WAY PLAN SHEET 2

IDAHO COUNTY

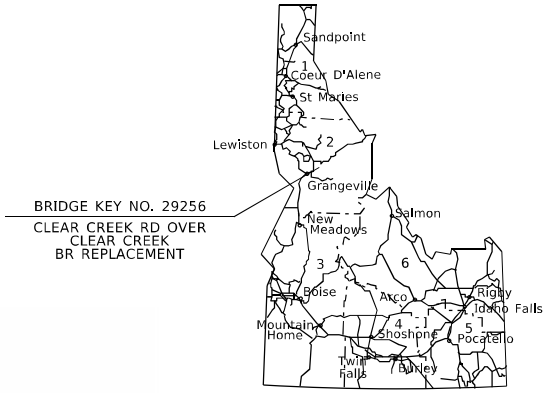
RIGHT-OF-WAY PLANS

CLEARCREEK RD BR REPLACEMENT

BRIDGE KEY NO. 29256

IDAHO COUNTY

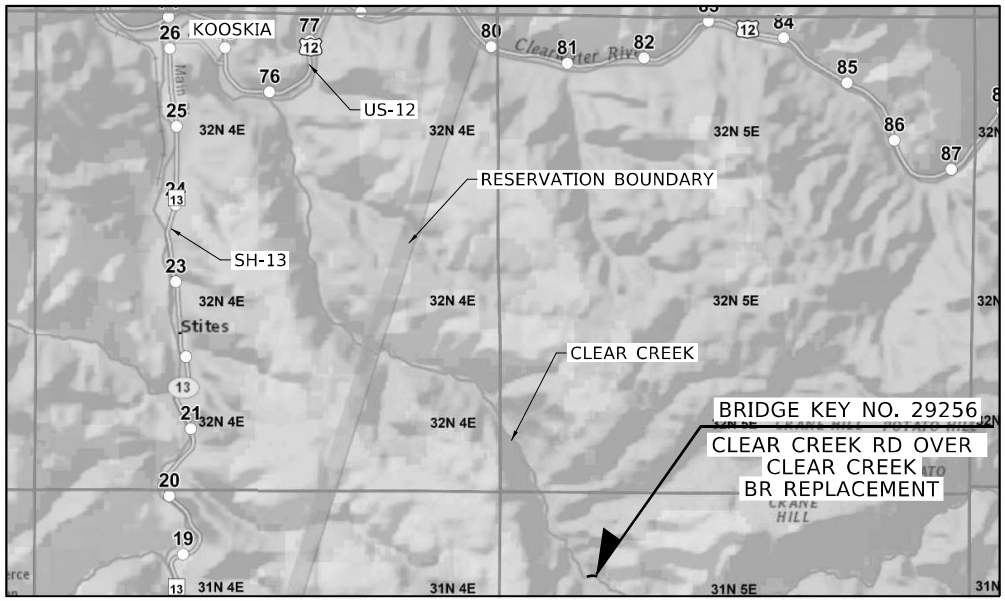
FEBRUARY, 2026



SCALES IN FEET

HORIZONTAL 0 20 40 FEET

VERTICAL 0 5 10 FEET



VICINITY MAP SCALE

1.5 0 1.5 3

MILES

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
29256 ROWP TITL D01.dgn

DRAWING DATE:
2/16/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

TITLE SHEET
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT
IDAHO COUNTY

ENGLISH

COUNTY
IDAHO

KEY NUMBER
29256

SHEET 1 OF 6

PROFESSIONAL LAND SURVEYOR LICENSED 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

February 16, 2026 3:58:13 PM
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EXISTING/PROPOSED

- BUSH
- EMBANKMENT PROTECTOR
- DRAINAGE FLOW
- PIPE APRON
- CATCH BASIN
- DITCH BERM
- FOUND GPS CONTROL POINT
- MAILBOX
- MARSH
- MATERIAL SOURCE
- PHOTO CENTER
- RIPRAP
- SIPHON
- SPOT ELEVATION
- STOCKPILE SITE
- STUMP
- TREE
- WETLAND
- FLAG POLE
- IRRIGATION BOX
- SPRINKLER
- BUSH BOUNDARY
- CULTIVATION BOUNDARY
- TREE BOUNDARY
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- RAILROAD TRACKS
- TOP OF RAIL (RAILROAD)
- CONCRETE MONUMENT
- FOUND /SET BRASS OR ALLOY CAP AS NOTED
- FOUND IRON PIPE /SET IRON PIPE
- PK NAIL
- FOUND /PROPOSED RW MARKER
- FOUND /SET NUMBER 4 REBAR
- FOUND /SET NUMBER 5 REBAR
- FOUND /SET CONTROL POINT
- WILL SET AFTER ACQUISITION
- BARN
- BUILDING FOUNDATION
- HOUSE
- DECK
- SILO

EXISTING/PROPOSED

- FOUND /SET QUARTER CORNER
- FOUND /SET SECTION CORNER
- STATE LINE
- TOWNSHIP AND RANGE LINE
- RESERVATION BOUNDARY
- SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- COUNTY LINE
- CITY LIMITS
- TEMPORARY EASEMENT
- PERMANENT EASEMENT LINE
- RIGHT OF WAY LINE
- PURCHASED ACCESS CONTROL LINE
- INTERSTATE ACCESS CONTROL LINE
- PROPERTY LINE
- RAILROAD RIGHT OF WAY LINE
- SILT FENCE
- FIBER WATTLE
- SEDIMENT BASIN
- DIKE SWALE
- EROSION CONTROL BLANKET
- MULCH
- SEEDING PERMANENT
- SEEDING TEMPORARY
- CONCRETE PAVEMENT
- CONCRETE SLOPE PAVING
- INLET PROTECTION (INSERT)
- INLET PROTECTION (WATTLE)
- POLLUTION PREVENTION FLOW
- SAWCUT LINE
- REMOVAL OF BITUMINOUS SURFACE
- REMOVAL OF CONCRETE PAVEMENT
- COLD MILLING
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- PROPERTY USE AGREEMENT

EXISTING/PROPOSED

- RAILROAD PROTECTION DEVICE
- RAILROAD SIGNAL
- RAILROAD SWITCH
- GUY & ANCHOR
- ILLUMINATION JUNCTION BOX
- ITS JUNCTION BOX
- UNDERDECK LUMINAIRE
- ELECTRIC MANHOLE
- METER
- ELECTRIC POLE
- TRANSMISSION TOWER
- ELECTRIC VAULT
- FIRE HYDRANT
- RISER GAS OR OIL ETC.
- TELEPHONE OR LIGHT POLE
- MANHOLE
- DRY WELL
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC CABLE
- OVERHEAD FIBER OPTIC
- UNDERGROUND FIBER OPTIC
- OVERHEAD TELEPHONE
- UNDERGROUND TELEPHONE
- OVERHEAD TELEVISION
- UNDERGROUND TELEVISION CABLE
- WATER LINE
- GAS LINE
- OIL LINE
- PIPE BELL INDICATES FLOW DIRECTION
- IRRIGATION SIPHON
- IRRIGATION LINE
- SANITARY SEWER
- STORM SEWER
- UNDER DRAIN
- CONDUIT OR CASING
- ITS CONDUIT
- PLASTIC CONDUIT
- OVERHEAD TRAFFIC SIGNAL
- XXXX — POINT NUMBERS FOR SURVEY MONUMENTS. SEE SURVEY CONTROL TABLE FOR DETAILS.

EXISTING/PROPOSED

- HORIZONTAL ALIGNMENT CONTROL LINE
- CURB
- GUTTER
- COMBINATION CURB AND GUTTER
- CULVERT WITH APRONS
- METAL GUARDRAIL
- CONCRETE BARRIER
- FENCE
- GATE
- SNOW FENCE
- RETAINING WALL
- EXISTING GROUND (PROFILE GRADE LINE)
- TOE OF FILL (SLOPE LIMIT)
- TOP OF CUT (SLOPE LIMIT)
- ROAD CLOSURE
- DITCH BOTTOM (FLAT BOTTOM)
- DITCH BOTTOM (V-DITCH)
- TOE OF BASE LINE
- DELINEATOR TYPE 1
- DELINEATOR TYPE 2
- DELINEATOR TYPE 3
- DELINEATOR TYPE 4
- DELINEATOR TYPE 9
- TUBULAR MARKER
- SIGN SINGLE POST
- SIGN DOUBLE POST
- EMERGENCY VEHICLE PREEMPT DETECTOR
- LUMINAIRE POLE
- ELECTRONICS CABINET & SERVICE PEDESTAL
- CAMERA POLE WITH CAMERA
- AUTOMATIC TRAFFIC RECORDER
- SPLICE VAULT
- FIBER OPTIC MANHOLE
- ITS CABINET
- SERVICE PEDESTAL
- DYNAMIC MESSAGE SIGN & STRUCTURE
- TRAFFIC SIGNAL HEAD
- STOP BAR
- YIELD LINE

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	PROJECT NO.	LEGEND SHEET	ENGLISH
NO.	DATE	BY	DESCRIPTION	J. GILLEY			CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
				DESIGN CHECKED D. GOWER				KEY NUMBER 29256
				DETAILED J. GILLEY	CADD FILE NAME 29256 LGND D01.DGN			
				DRAWING CHECKED D. RAMUS	DRAWING DATE: 2/16/2026			SHEET 2 OF 6

DAVID EVANS AND ASSOCIATES INC.

PROFESSIONAL LAND SURVEYOR LICENSED Jennifer Gilley 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

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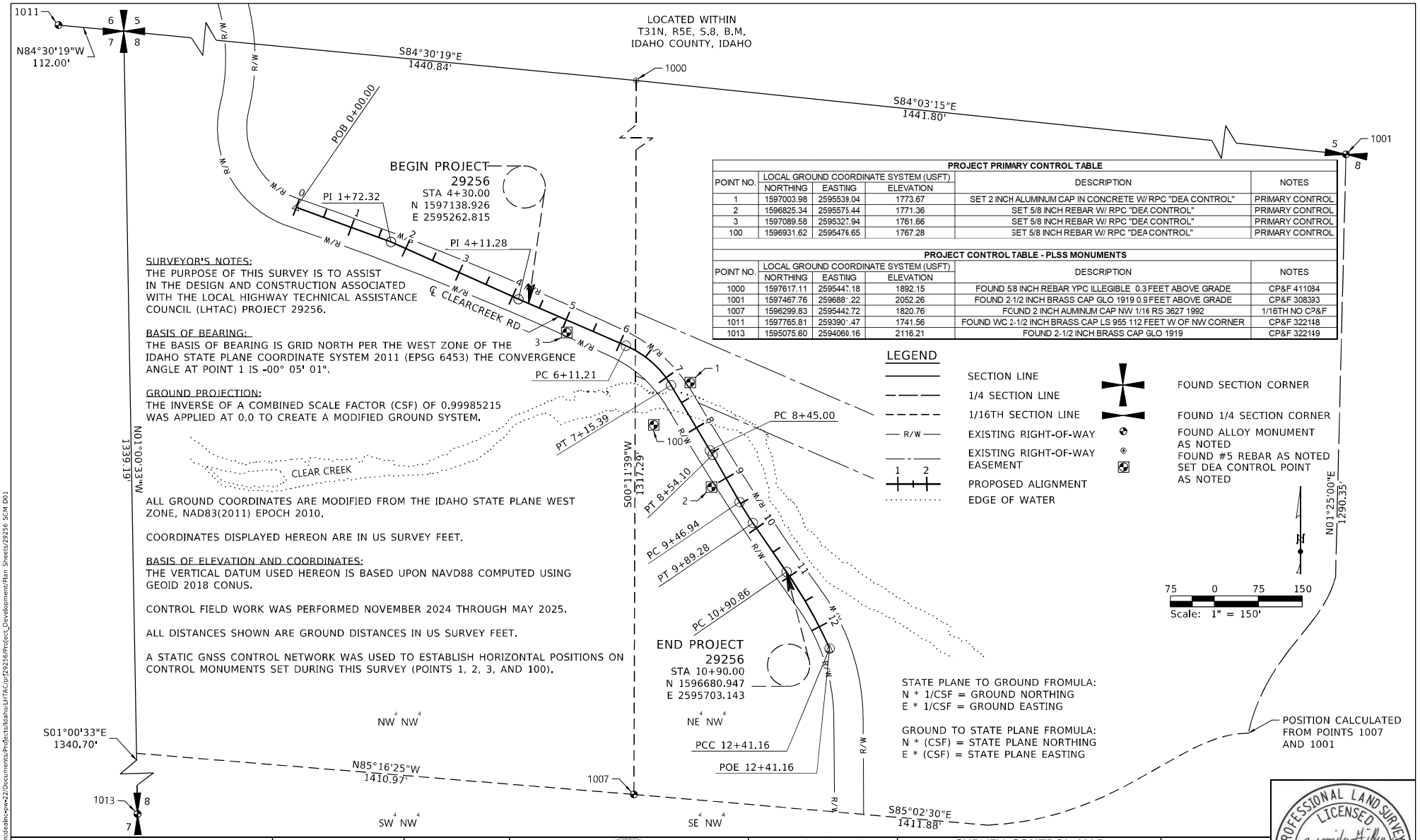

PROJECT PRIMARY CONTROL TABLE

POINT NO.	LOCAL GROUND COORDINATE SYSTEM (USFT)			DESCRIPTION	NOTES
	NORTHING	EASTING	ELEVATION		
1	1597003.98	2595539.04	1773.67	SET 2 INCH ALUMINUM CAP IN CONCRETE W/ RPC "DEA CONTROL"	PRIMARY CONTROL
2	1596825.34	2595575.44	1771.36	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL
3	1597089.58	2595327.94	1761.66	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL
100	1596931.62	2595476.65	1767.28	SET 5/8 INCH REBAR W/ RPC "DEA CONTROL"	PRIMARY CONTROL

PROJECT CONTROL TABLE - PLSS MONUMENTS

POINT NO.	LOCAL GROUND COORDINATE SYSTEM (USFT)			DESCRIPTION	NOTES
	NORTHING	EASTING	ELEVATION		
1000	1597617.11	2595447.18	1892.15	FOUND 5/8 INCH REBAR YPC ILLEGIBLE 0.3 FEET ABOVE GRADE	CP&F 411084
1001	1597467.76	259688[illegible].22	2052.26	FOUND 2-1/2 INCH BRASS CAP GLO 1919 0.9 FEET ABOVE GRADE	CP&F 308393
1007	1596299.83	2595442.72	1820.76	FOUND 2 INCH AUMINUM CAP NW 1/16 RS 3627 1992	1/16TH NO CP&F
1011	1597765.81	259390[illegible].47	1741.56	FOUND WC 2-1/2 INCH BRASS CAP LS 955 1.2 FEET W OF NW CORNER	CP&F 322148
1013	1595075.60	2594060.16	2116.21	FOUND 2-1/2 INCH BRASS CAP GLO 1919	CP&F 322149

SURVEYOR'S NOTES:
THE PURPOSE OF THIS SURVEY IS TO ASSIST IN THE DESIGN AND CONSTRUCTION ASSOCIATED WITH THE LOCAL HIGHWAY TECHNICAL ASSISTANCE COUNCIL (LHTAC) PROJECT 29256.

BASIS OF BEARING:
THE BASIS OF BEARING IS GRID NORTH PER THE WEST ZONE OF THE IDAHO STATE PLANE COORDINATE SYSTEM 2011 (EPSG 6453) THE CONVERGENCE ANGLE AT POINT 1 IS -00° 05' 01".

GROUND PROJECTION:
THE INVERSE OF A COMBINED SCALE FACTOR (CSF) OF 0.99985215 WAS APPLIED AT 0,0 TO CREATE A MODIFIED GROUND SYSTEM.

ALL GROUND COORDINATES ARE MODIFIED FROM THE IDAHO STATE PLANE WEST ZONE, NAD83(2011) EPOCH 2010.

COORDINATES DISPLAYED HEREON ARE IN US SURVEY FEET.

BASIS OF ELEVATION AND COORDINATES:
THE VERTICAL DATUM USED HEREON IS BASED UPON NAVD88 COMPUTED USING GEOID 2018 CONUS.

CONTROL FIELD WORK WAS PERFORMED NOVEMBER 2024 THROUGH MAY 2025.

ALL DISTANCES SHOWN ARE GROUND DISTANCES IN US SURVEY FEET.

A STATIC GNSS CONTROL NETWORK WAS USED TO ESTABLISH HORIZONTAL POSITIONS ON CONTROL MONUMENTS SET DURING THIS SURVEY (POINTS 1, 2, 3, AND 100).

LEGEND

- SECTION LINE
- 1/4 SECTION LINE
- 1/16TH SECTION LINE
- R/W — EXISTING RIGHT-OF-WAY
- EXISTING RIGHT-OF-WAY EASEMENT
- 1 2 — PROPOSED ALIGNMENT
- EDGE OF WATER
- FOUND SECTION CORNER
- FOUND 1/4 SECTION CORNER
- FOUND ALLOY MONUMENT AS NOTED
- FOUND #5 REBAR AS NOTED SET DEA CONTROL POINT AS NOTED

Scale: 1" = 150'

STATE PLANE TO GROUND FROMULA:
N * 1/CSF = GROUND NORTHING
E * 1/CSF = GROUND EASTING

GROUND TO STATE PLANE FROMULA:
N * (CSF) = STATE PLANE NORTHING
E * (CSF) = STATE PLANE EASTING

PROFESSIONAL LAND SURVEYOR LICENSED 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED J. GILLEY	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY		
DESIGN CHECKED A. MCCALL			
DETAILED J. GILLEY	CADD FILE NAME 29256 SCM D01.dgn		
DRAWING CHECKED D. GOWER	DRAWING DATE: 2/16/2026		

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.	SURVEY CONTROL MAP	ENGLISH
	CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO
		KEY NUMBER 29256
		SHEET 3 OF 6

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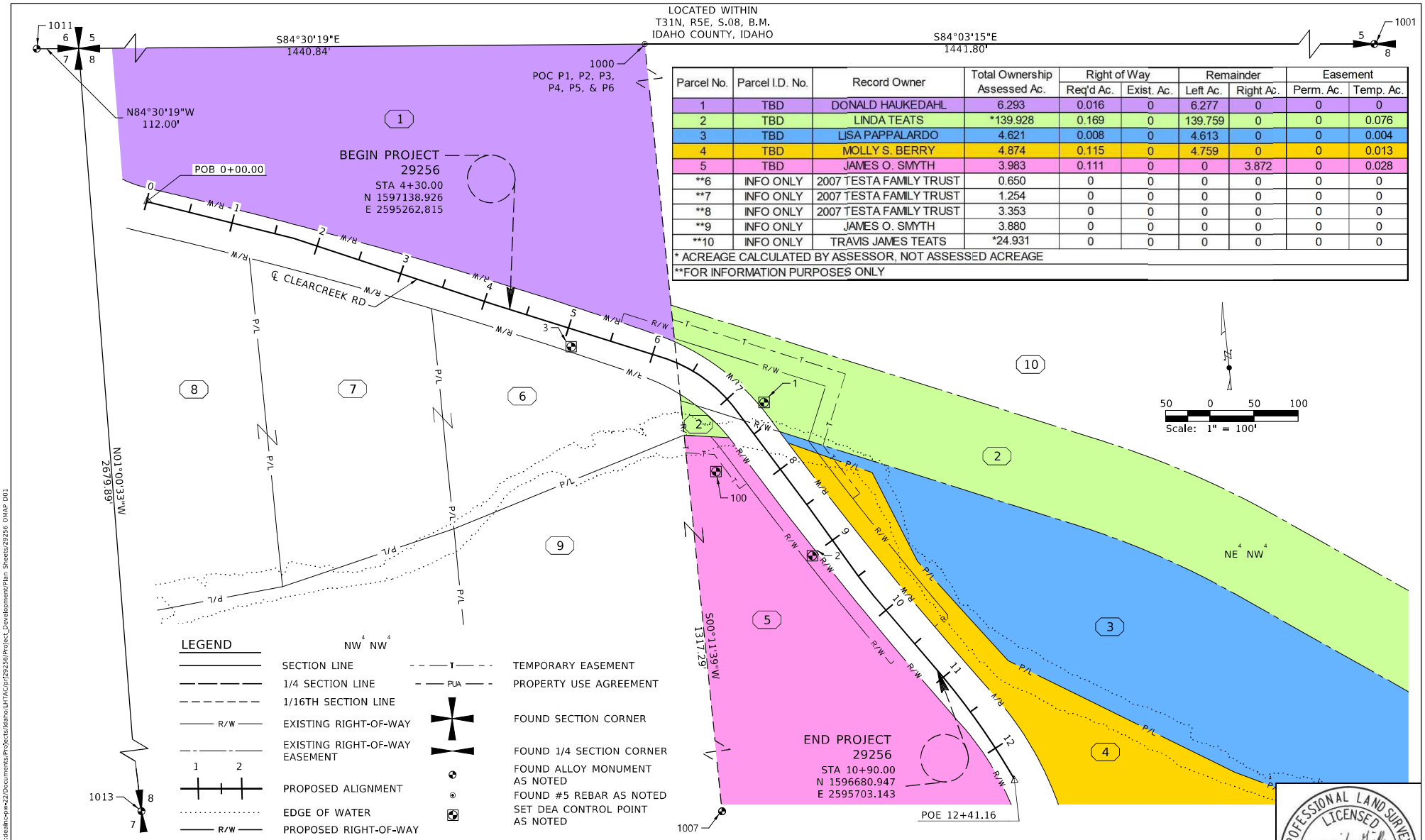

Parcel No.	Parcel I.D. No.	Record Owner	Total Ownership Assessed Ac.	Right of Way		Remainder		Easement	
				Req'd Ac.	Exist. Ac.	Left Ac.	Right Ac.	Perm. Ac.	Temp. Ac.
1	TBD	DONALD HAUKEDAHL	6.293	0.016	0	6.277	0	0	0
2	TBD	LINDA TEATS	*139.928	0.169	0	139.759	0	0	0.076
3	TBD	LISA PAPPALARDO	4.621	0.008	0	4.613	0	0	0.004
4	TBD	MOLLY S. BERRY	4.874	0.115	0	4.759	0	0	0.013
5	TBD	JAMES O. SMYTH	3.983	0.111	0	0	3.872	0	0.028
**6	INFO ONLY	2007 TESTA FAMILY TRUST	0.650	0	0	0	0	0	0
**7	INFO ONLY	2007 TESTA FAMILY TRUST	1.254	0	0	0	0	0	0
**8	INFO ONLY	2007 TESTA FAMILY TRUST	3.353	0	0	0	0	0	0
**9	INFO ONLY	JAMES O. SMYTH	3.880	0	0	0	0	0	0
**10	INFO ONLY	TRAVIS JAMES TEATS	*24.931	0	0	0	0	0	0

* ACREAGE CALCULATED BY ASSESSOR, NOT ASSESSED ACREAGE
**FOR INFORMATION PURPOSES ONLY

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED J. GILLEY	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	DAVID EVANS AND ASSOCIATES INC.
DESIGN CHECKED D. GOWER		
DETAILED D. GOWER	CADD FILE NAME 29256 OMAP D01.dgn	
DRAWING CHECKED J. GILLEY	DRAWING DATE: 2/16/2026	

PROJECT NO.	TOTAL OWNERSHIP MAP	ENGLISH
	CLEAR CREEK RD OVER CLEAR CREEK BR REPLACEMENT	COUNTY IDAHO KEY NUMBER 29256 SHEET 4 OF 6

PROFESSIONAL LAND SURVEYOR LICENSED 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

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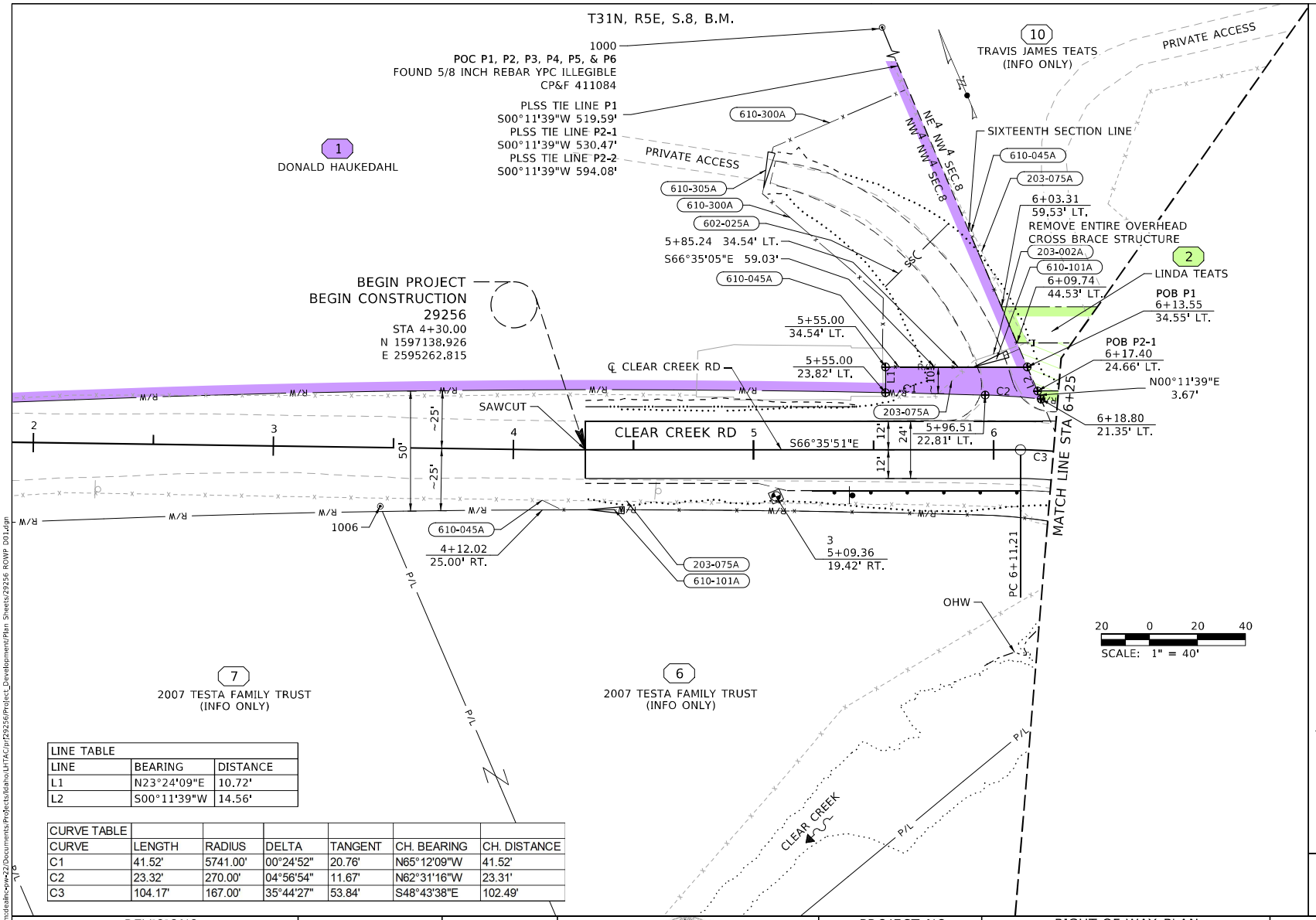

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N23°24'09"E	10.72'
L2	S00°11'39"W	14.56'

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CH. BEARING	CH. DISTANCE
C1	41.52'	5741.00'	00°24'52"	20.76'	N65°12'09"W	41.52'
C2	23.32'	270.00'	04°56'54"	11.67'	N62°31'16"W	23.31'
C3	104.17'	167.00'	35°44'27"	53.84'	S48°43'38"E	102.49'

203-002A	REMOVAL OF OBSTRUCTIONS	
1 EA	STA 5+99.92, 39.89' LT	
203-075A	REMOVAL OF FENCE	
212 FT	STA 4+12.00, 20.97' RT TO	STA 6+25.00, 30.75' RT
44 FT	STA 5+53.95, 22.15' LT TO	STA 5+91.84, 37.17' LT
61 FT	STA 6+07.99, 42.60' LT TO	STA 5+90.39, 92.73' LT
602-025A	12" PIPE CULVERT	
38 FT	STA 5+54.80, 67.86' LT TO	STA 5+81.19, 94.22' LT
610-045A	FENCE TYPE 5 B	
212 FT	STA 4+12.00, 20.97' RT TO	STA 6+25.00, 29.20' RT
40 FT	STA 5+53.83, 34.54' LT TO	STA 5+93.04, 34.99' LT
62 FT	STA 6+04.27, 39.21' LT TO	STA 5+90.39, 92.73' LT
610-101A	GATE TYPE 1A	
1 EA	STA 4+38.61, 24.95' RT	
1 EA	STA 5+99.92, 39.89' LT	
610-300A	TEMPORARY FENCE	
90 FT	STA 5+53.75, 42.38' LT TO	STA 5+04.26, 109.13' LT
63 FT	STA 5+07.70, 123.84' LT TO	STA 5+63.16, 149.89' LT
610-305A	TEMPORARY GATE	
1 EA	STA 5+06.00, 177.50' LT	

NOTES:
1. REMOVAL OF OBSTRUCTIONS INCLUDES REMOVAL OF GATES AND OVERHEAD CROSS BRACE STRUCTURE.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	J. GILLEY
DESIGN CHECKED	D. GOWER
DETAILED	D. GOWER
DRAWING CHECKED	J. GILLEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 29256 ROWP D01.dgn
DRAWING DATE: 2/16/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

RIGHT-OF-WAY PLAN
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

ENGLISH
COUNTY: IDAHO
KEY NUMBER: 29256
SHEET 5 OF 6

PROFESSIONAL LAND SURVEYOR LICENSED 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

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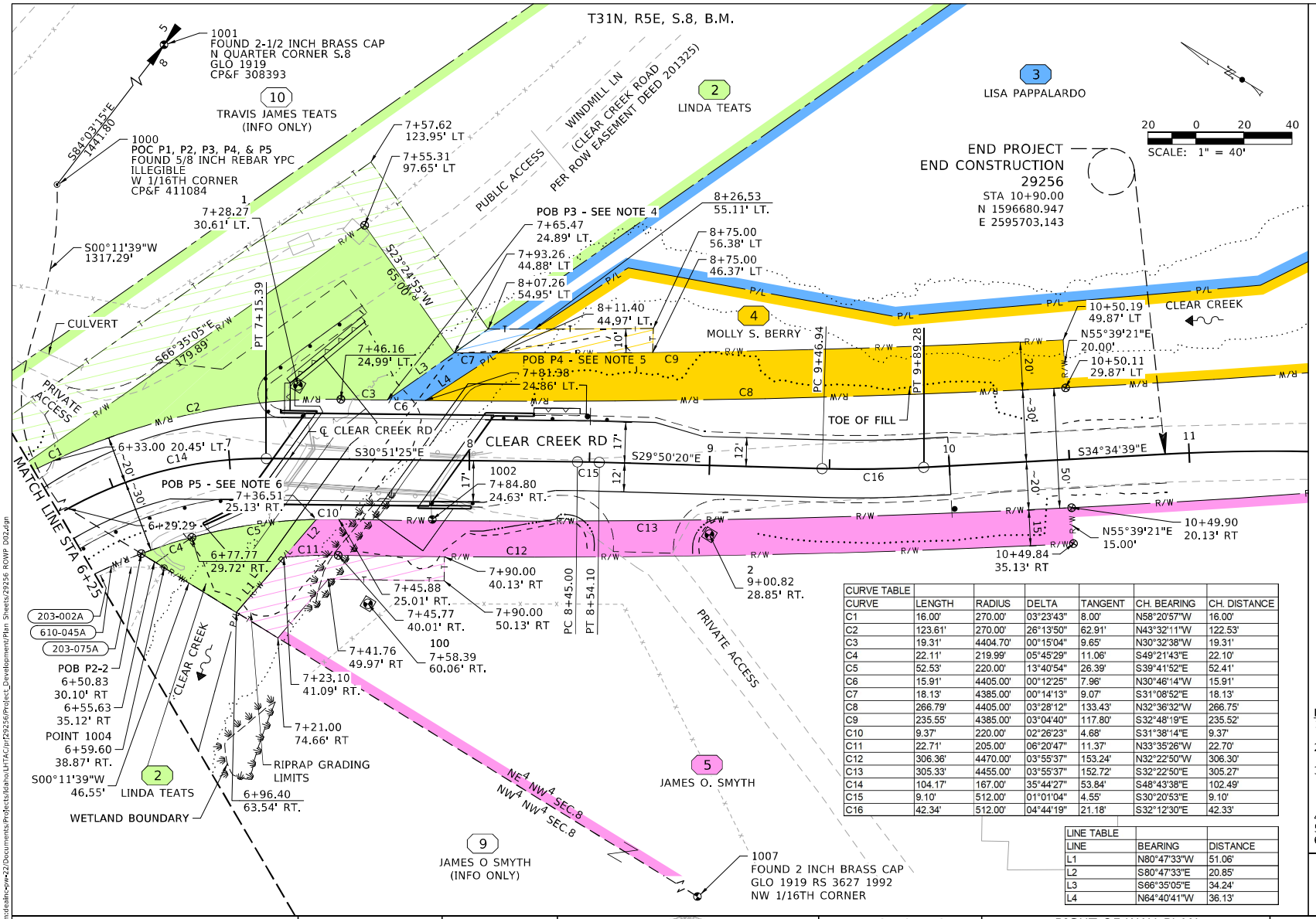

CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CH. BEARING	CH. DISTANCE
C1	16.00'	270.00'	03°23'43"	8.00'	N58°20'57"W	16.00'
C2	123.61'	270.00'	26°13'50"	62.91'	N43°32'11"W	122.53'
C3	19.31'	4404.70'	00°15'04"	9.65'	N30°32'38"W	19.31'
C4	22.11'	219.99'	05°45'29"	11.06'	S49°21'43"E	22.10'
C5	52.53'	220.00'	13°40'54"	26.39'	S39°41'52"E	52.41'
C6	15.91'	4405.00'	00°12'25"	7.96'	N30°46'14"W	15.91'
C7	18.13'	4385.00'	00°14'13"	9.07'	S31°08'52"E	18.13'
C8	266.79'	4405.00'	03°28'12"	133.43'	N32°36'32"W	266.75'
C9	235.55'	4385.00'	03°04'40"	117.80'	S32°48'19"E	235.52'
C10	9.37'	220.00'	02°26'23"	4.68'	S31°38'14"E	9.37'
C11	22.71'	205.00'	06°20'47"	11.37'	N33°35'26"W	22.70'
C12	306.36'	4470.00'	03°55'37"	153.24'	N32°22'50"W	306.30'
C13	305.33'	4455.00'	03°55'37"	152.72'	S32°22'50"E	305.27'
C14	104.17'	167.00'	35°44'27"	53.84'	S48°43'38"E	102.49'
C15	9.10'	512.00'	01°01'04"	4.55'	S30°20'53"E	9.10'
C16	42.34'	512.00'	04°44'19"	21.18'	S32°12'30"E	42.33'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N80°47'33"W	51.06'
L2	S80°47'33"E	20.85'
L3	S66°35'05"E	34.24'
L4	N64°40'41"W	36.13'

203-002A	REMOVAL OF OBSTRUCTIONS
1 EA	STA 6+29.39, 31.07' RT
203-075A	REMOVAL OF FENCE
30 FT	STA 6+25.00, 30.75' RT TO STA 6+59.48, 38.91' RT
610-045A	FENCE TYPE 5 B
33 FT	STA 6+25.00, 29.20' RT TO STA 6+59.48, 38.91' RT

NOTES:
1. INSTALL SELVES TO AVOID GRAB FABRIC.
2. SEE ROADWAY DETAIL SHEETS FOR GRADING DETAILS.
3. RETAIN AND PROTECT PICNIC TABLE AND PAVERS. MOVE NORTHWEST OUTSIDE OF THE ROADWAY FILL ANDWITHIN EXISTING RIGHT OF WAY.
4. POC TO POB P3: S09°17'32"E 656.61'
5. POC TO POB P4: S09°47'22"E 671.45'
6. POC TO POB P5: S04°15'06"E 650.59'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	J. GILLEY
DESIGN CHECKED	D. GOWER
DETAILED	D. GOWER
DRAWING CHECKED	J. GILLEY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 29256 ROWP D02.dgn

DRAWING DATE: 2/16/2026

DAVID EVANS AND ASSOCIATES INC.

PROJECT NO.

RIGHT-OF-WAY PLAN
CLEAR CREEK RD OVER CLEAR CREEK
BR REPLACEMENT

ENGLISH

COUNTY: IDAHO

KEY NUMBER: 29256

SHEET 6 OF 6

PROFESSIONAL LAND SURVEYOR LICENSED 22435 02/16/2026 STATE OF IDAHO JENNIFER R. GILLEY

February 16, 2026 3:58:57 PM
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