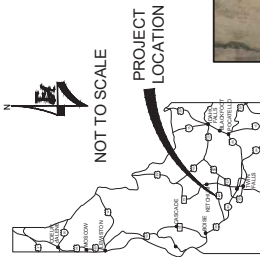


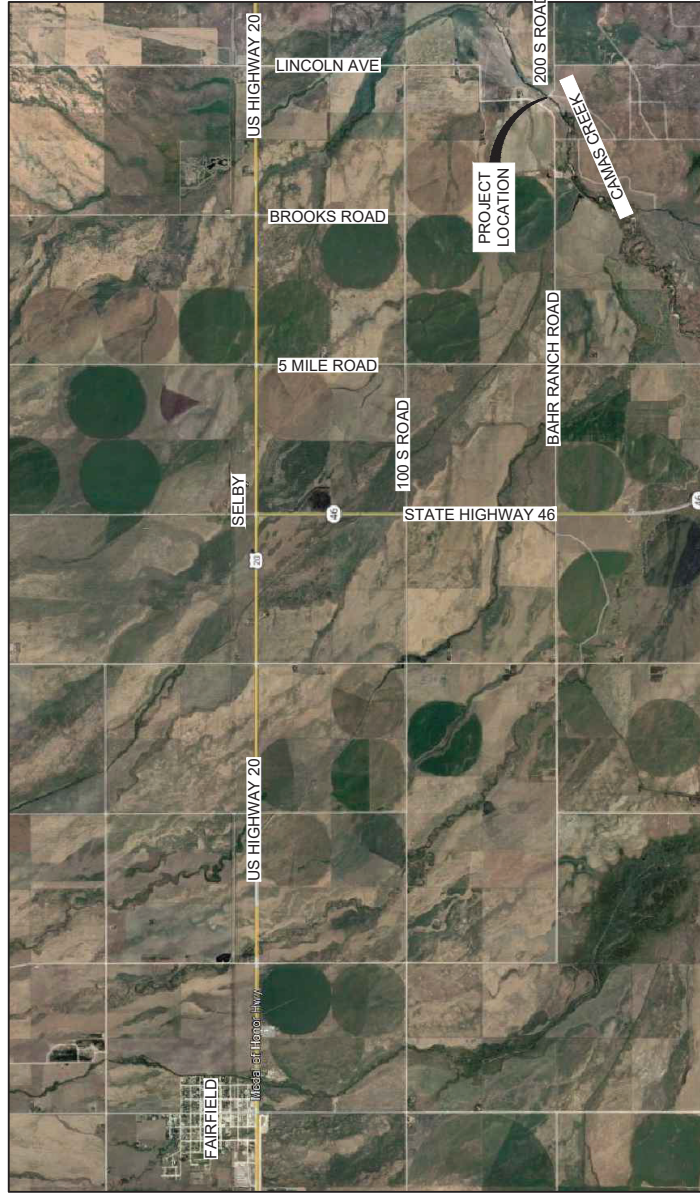
LEADING IDAHO LOCAL BRIDGE PROGRAM

200 S ROAD OVER CAMAS CREEK CAMAS COUNTY, IDAHO BRIDGE KEY NUMBER 23801



NOT TO SCALE

PROJECT
LOCATION



VICINITY MAP

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ADT: 45
DESIGN SPEED: 30 MPH

SCALES SHOWN	SCALE
ARE FOR 11'x17'	
PRINTS ONLY	
COUNTY	CAMAS
BRIDGE KEY NUMBER	23801
DESIGNED	BY DATE
APPROVED	BY DATE
QA	BY DATE



COVER SHEET
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 9/29/26
SHEET NO.: 1 OF 47

FOOTING DESIGN LOADS

STRENGTH LIMIT STATE	ABUT. 1	PIER	ABUT. 2
BEARING	40 ksf	40 ksf	40 ksf
NOMINAL BEARING RESISTANCE [q _n]	7.51 ft	8.86 ft	6.74 ft
EFFECTIVE FOOTING WIDTH B'	1 ft	1 ft	1 ft
EFFECTIVE FOOTING LENGTH L'	0.45	0.45	0.45
RESISTANCE FACTOR Φ	18 ksf	18 ksf	18 ksf
FACTORED BEARING RESISTANCE [φ _b 'q _n]	12.05 ksf	10.29 ksf	9.61 ksf
FACTORED APPLIED LOAD [Q _U /B _L]			
SLIDING	ABUT. 1	PIER	ABUT. 2
NOMINAL SLIDING RESISTANCE [R _n]	30.87 klf	34.86 klf	23.62 klf
RESISTANCE FACTOR Φ	1.00	1.00	1.00
FACTORED SLIDING RESISTANCE [φ _R 'R _n]	30.87 klf	34.86 klf	23.62 klf
FACTORED APPLIED LOAD [W]	19.43 klf	2.76 klf	11.11 klf
<u>SERVICE LIMIT STATE</u>			
BEARING	ABUT. 1	PIER	ABUT. 2
PRESUMPTIVE BEARING CAPACITY [q _p]	10 ksf	10 ksf	10 ksf
BASED UPON FOOTING SETTLEMENT	0.5 inches OR LESS		
EFFECTIVE FOOTING WIDTH B'	6.88 ft	7.97 ft	6.13 ft
EFFECTIVE FOOTING LENGTH L'	1 ft	1 ft	1 ft
RESISTANCE FACTOR Φ	1.00	1.00	1.00
FACTORED PRESUMPTIVE BEARING RESISTANCE [φ _n q _p]	10 ksf	10 ksf	10 ksf
FACTORED APPLIED LOAD [Q _U /B _L]	9.58 ksf	9.24 ksf	7.81 ksf
<u>EXTREME LIMIT STATE</u>			
BEARING	ABUT. 1	PIER	ABUT. 2
NOMINAL BEARING RESISTANCE [q _n]	40 ksf	40 ksf	40 ksf
EFFECTIVE FOOTING WIDTH B'	6.07 ft	3.49 ft	5.38 ft
EFFECTIVE FOOTING LENGTH L'	1 ft	1 ft	1 ft
RESISTANCE FACTOR Φ	1.00	1.00	1.00
FACTORED PRESUMPTIVE BEARING RESISTANCE [φ _n q _p]	40 ksf	40 ksf	40 ksf
FACTORED APPLIED LOAD [Q _U /B _L]	9.17 ksf	17.53 ksf	7.05 ksf
SLIDING	ABUT. 1	PIER	ABUT. 2
NOMINAL SLIDING RESISTANCE [R _n]	25.82 klf	30.95 klf	18.28 klf
RESISTANCE FACTOR Φ	1.00	1.00	1.00
FACTORED SLIDING RESISTANCE [φ _R 'R _n]	25.82 klf	30.95 klf	18.28 klf
FACTORED APPLIED LOAD [W]	14.16 klf	9.34 klf	8.43 klf

DESIGN NOTES

DESIGN SPECIFICATIONS: IN ACCORDANCE WITH "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" 10th EDITION AND DECEMBER 2024 ITD BRIDGE DESIGN LRFD MANUAL.
 DESIGN PROCEDURES: PROPRIETARY COMPUTER SOFTWARE PROGRAMS USED TO FACILITATE THE DESIGN:
 DESIGN SPEED IS 30 mph.

NAME	VERSION	RELEASE DATE
PTC MATHCAD	PRIME 8.0.0.0	MARCH 15, 2022
EXCEL	2501, BUILD 18429.20132	JANUARY 30, 2025
PSBEAM	4.81	2021

DESIGN LOADS:
 PERMANENT LOADS:
 DC UNIT WEIGHT OF REINFORCED CONCRETE 0.150 kcf
 42" SINGLE SLOPE CONCRETE PARAPET 0.518 klf/ft side
 DW INITIAL SURFACING 0.047 ksf
 FUTURE WEARING SURFACE 0.028 ksf
 EV UNIT WEIGHT OF SOIL 0.125 kcf
 EH ACTIVE PRESSURE 0.034 kcf
 AT REST PRESSURE 0.053 kcf
 TRANSIENT LOADS:
 LL HL-93
 IM DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM
 LS LIVE LOAD SURCHARGE AT ABUTMENT 1 2 feet
 LIVE LOAD SURCHARGE AT ABUTMENT 2 2.6 feet
 LIVE LOAD SURCHARGE AT WING WALL 2 feet
 TU UNIFORM TEMPERATURE RANGE 0° F TO 80° F
 BASE SETTING TEMPERATURE 60° F

QUANTITIES

ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
203-020A	REMOVAL OF BRIDGE - FULL (Bridge Key # 23796)	1	EA
210-005A	STRUCTURE EXCAVATION SCH. NO. 1 - SOIL AND GRAVEL	550	CY
210-005B	STRUCTURE EXCAVATION SCH. NO. 1 - ROCK	356	CY
210-015A	COMPACTING BACKFILL	679	CY
301-010A	GRANULAR SUBBASE	1,145	TON
502-140A	CONCRETE CLASS 40A SCH. NO. 1	316	CY
502-310A	CONCRETE CLASS 40AF SCH. NO. 2	200.4	CY
502-380A	PRESTRESS WF GIRDER (50" DEPTH)	816	FT
502-430A	CONCRETE PARAPET (TYPE SINGLE SLOPE, HEIGHT 42")	476	FT
503-010A	METAL REINFORCEMENT SCH. NO. 1	40,024	LB
503-015A	METAL REINFORCEMENT SCH. NO. 2	15,358	LB
503-020A	EPOXY-COATED METAL REINFORCEMENT	28,534	LB
507-010A	ELASTOMERIC BEARINGS LAMINATED (1.25" x 8" x 32")	16	EA
509-005A	NON-STRUCTURAL CONCRETE CLASS 15	111	CY
511-005A	CONCRETE WATERPROOFING SYSTEM TYPE D	637.3	SY
560-005A	DEWATERING FOUNDATION	1	LS
566-010A	COMPRESSION EXPANSION JOINT	62	FT
S501-20A	SP BRIDGE, COURSE AGGREGATE DRAIN	16	EA

DESIGN NOTES CONTINUED:

CONSTRUCTION SPECIFICATIONS: 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.

MATERIAL:

CONCRETE: ABUTMENTS, WINGWALLS, AND SPREAD FOOTINGS
 - CLASS 40A f_c = 4,000 ksi
 DECK AND CURB - CLASS 40AF f_c = 4,000 ksi
 LEVELING PADS - CLASS 15 f_c = 1,800 ksi
 PRESTRESS GIRDERS f_c = 8,500 ksi
 METAL REINFORCEMENT: AASHTO M61, GRADE 60 TYPE S f_y = 60,000 ksi
 PRESTRESSING REINFORCEMENT: 0.6" ASTM M203 GRADE 270 LOW RELAXATION f_p = 270,000 ksi

PLAN DIMENSIONS AND ELEVATIONS: BEVEL EXPOSED EDGES OF CONCRETE 3/4" 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: PROVIDE CONSTRUCTION JOINTS ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.
 EPOXY-COATED REINFORCEMENT IS DESIGNATED BY AND (E) AFTER THE BAR MARK.

DO NOT EXCEED A DIFFERENCE OF 2 FEET IN ELEVATION OF THE BACKFILL MATERIAL ON BOTH SIDES OF THE STRUCTURE DURING BACKFILL OPERATIONS.
 SET THE ROLLER IN THE STATIC MODE FOR COMPACTING THE ASPHALT WEARING SURFACE, WHEN THE DEPTH OF FILL IS LESS THAN 3".
 ELEVATIONS ARE BASED ON NAVD 88 DATUM.

CONTRACTOR TO SUBMIT METHODS AND EQUIPMENT USED FOR THE BRIDGE REMOVAL FOR ENGINEERS REVIEW AND APPROVAL AT LEAST 4 WEEKS PRIOR TO COMMENCING WORK.

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

SPREAD FOOTING DESIGN DATA FOR SCOUR

TOP OF FOOTING ELEVATION ABUTMENT 1 4979.40 feet
 TOP OF FOOTING ELEVATION PIER 4980.72 feet
 TOP OF FOOTING ELEVATION ABUTMENT 2 4988.00 feet
 SPREAD FOOTINGS FOUNDED ON ROCK, SCOUR NOT EVALUATED.

ELASTOMERIC BEARINGS

DESIGN PROCEDURE: METHOD B
 SHEAR MODULUS 130 PSI
 GRADE 4 POLYISOPRENE
 DESIGN LOADS: (SERVICE I) 287.6 kips



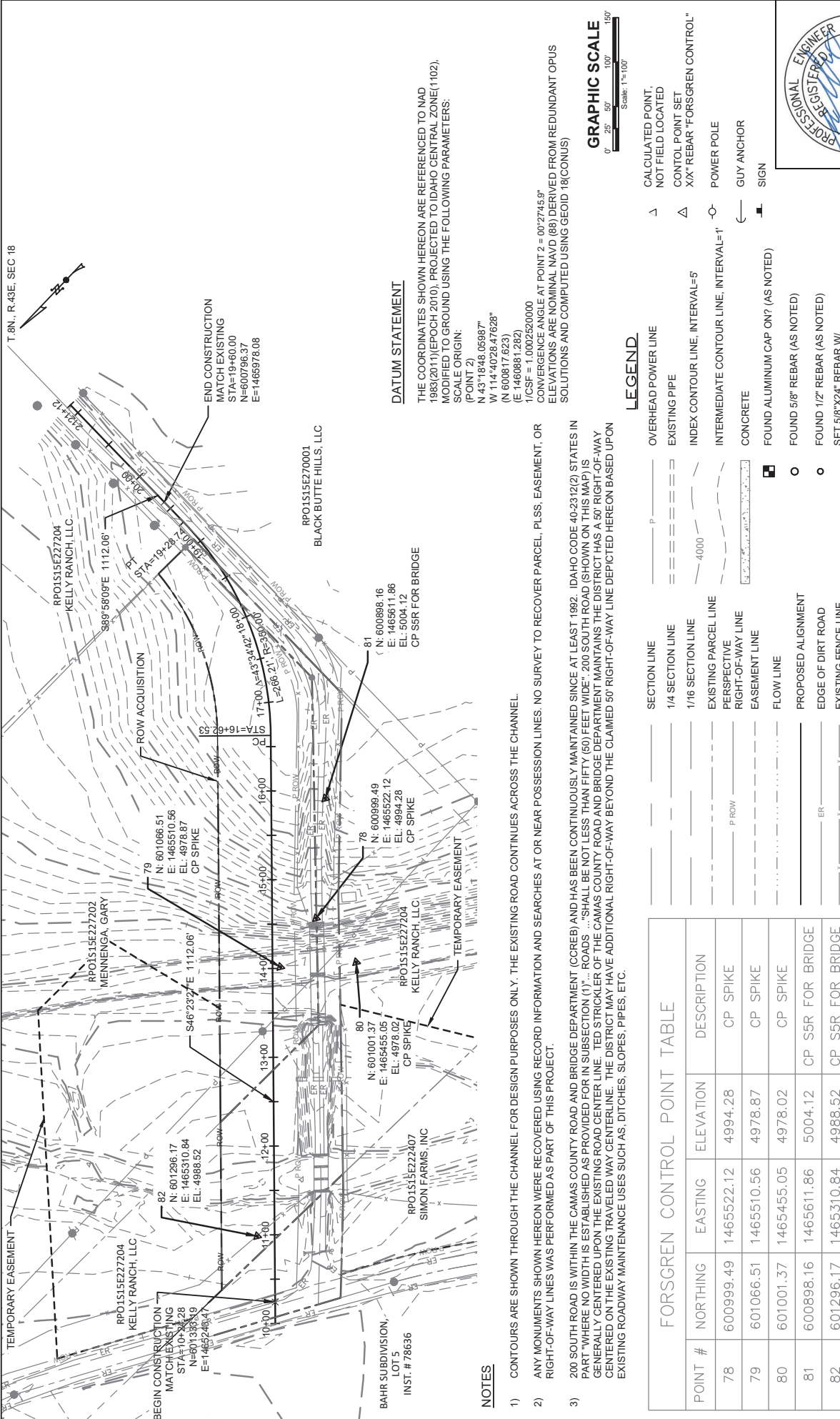
PROJECT NO.: 02-23-0135
 DRAWING NO.: 18294
 DATE: 9/23/26
 SHEET NO.: 3 OF 47



NOTES (2 OF 2)
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

SCALE SHOWN	DRAWN	H. REVISE	ARE FOR 11'x17' PRINTS ONLY
	DESIGNED	H. REVISE	COUNTY
	APPROVED	S. YEARSLEY	CANVAS
	QA	S.W.A.L. DINGER	BRIDGE KEY NUMBER
			23801

LEADING IDAHO LOCAL BRIDGE PROGRAM



DATUM STATEMENT

THE COORDINATES SHOWN HEREON ARE REFERENCED TO NAD 1983(2011) (EPOCH 2010), PROJECTED TO IDAHO CENTRAL ZONE(1102), MODIFIED TO GROUND USING THE FOLLOWING PARAMETERS:
 SCALE ORIGIN:
 (POINT 2)
 N 43°18'48.05987"
 W 114°40'28.47628"
 (N 600817.623)
 (E 1460881.282)
 1/CSF = 1.0002520000
 CONVERGENCE ANGLE AT POINT 2 = 09°27'45.8"
 ELEVATIONS ARE NOMINAL NAVD (88) DERIVED FROM REDUNDANT OPUS SOLUTIONS AND COMPUTED USING GEOID 18(CONSUS)

NOTES

- 1) CONTOURS ARE SHOWN THROUGH THE CHANNEL FOR DESIGN PURPOSES ONLY. THE EXISTING ROAD CONTINUES ACROSS THE CHANNEL.
- 2) ANY MONUMENTS SHOWN HEREON WERE RECOVERED USING RECORD INFORMATION AND SEARCHES AT OR NEAR POSSESSION LINES. NO SURVEY TO RECOVER PARCEL, P.L.S.S. EASEMENT, OR RIGHT-OF-WAY LINES WAS PERFORMED AS PART OF THIS PROJECT.
- 3) 200 SOUTH ROAD IS WITHIN THE CAMAS COUNTY ROAD AND BRIDGE DEPARTMENT (CCREB) AND HAS BEEN CONTINUOUSLY MAINTAINED SINCE AT LEAST 1982. IDAHO CODE 40-23-12(2) STATES IN PART "WHERE NO WIDTH IS ESTABLISHED AS PROVIDED FOR IN SUBSECTION (1) ... ROADS ... SHALL BE NOT LESS THAN FIFTY (50) FEET WIDE". 200 SOUTH ROAD (SHOWN ON THIS MAP) IS GENERALLY CENTERED UPON THE EXISTING ROAD CENTERLINE. TED STRICKLER OF THE CAMAS COUNTY ROAD AND BRIDGE DEPARTMENT MAINTAINS THE DISTRICT HAS A 50' RIGHT-OF-WAY CENTERED ON THE EXISTING TRAVELED WAY CENTERLINE. THE DISTRICT MAY HAVE ADDITIONAL RIGHT-OF-WAY LINE BEYOND THE CLAIMED 50' RIGHT-OF-WAY LINE DEPICTED HEREON BASED UPON EXISTING ROADWAY MAINTENANCE USES SUCH AS, DITCHES, SLOPES, PIPES, ETC.

FORSGREN CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
78	600999.49	1465522.12	4994.28	CP SPIKE
79	601066.51	1465510.56	4978.87	CP SPIKE
80	601001.37	1465455.05	4978.02	CP SPIKE
81	600898.16	1465611.86	5004.12	CP S5R FOR BRIDGE
82	601296.17	1465310.84	4988.52	CP S5R FOR BRIDGE

LEGEND

SECTION LINE	OVERHEAD POWER LINE	CALCULATED POINT,
1/4 SECTION LINE	EXISTING PIPE	NOT FIELD LOCATED
1/16 SECTION LINE	INDEX CONTOUR LINE, INTERVAL=5	CONTROL POINT SET
EXISTING PARCEL LINE	INTERMEDIATE CONTOUR LINE, INTERVAL=1'	X"X" REBAR "FORSGREN CONTROL"
PERSPECTIVE RIGHT-OF-WAY LINE	CONCRETE	POWER POLE
EASEMENT LINE	FOUND ALUMINUM CAP ON? (AS NOTED)	GUY ANCHOR
FLOW LINE	FOUND 5/8" REBAR (AS NOTED)	SIGN
PROPOSED ALIGNMENT	FOUND 1/2" REBAR (AS NOTED)	
EDGE OF DIRT ROAD	SET 5/8"x24" REBAR W/ PLASTIC CAP MARKED. *PLS XXXXX*	
EXISTING FENCE LINE		

FORSGREN Associates, Inc.		Unfact2 SINCE 1994	
LEADING IDAHO LOCAL BRIDGE PROGRAM		SURVEY CONTROL PLAN	
SCALES SHOWN ARE FOR 11"x17" PRINTS ONLY		PROJECT NO. 02-23-0135	
DRAWN _____ DESIGNED _____ APPROVED _____		DRAWING NO. 18294	
BY DATE _____		DATE: 9/23/26	
BRIDGE KEY NUMBER 28001		SHEET NO. 4 OF 47	
200 S ROAD OVER CAMAS CREEK			
207' PRESTRESSED CONCRETE BRIDGE			



T. 36N., R. 43E, SEC 18

RPO1S15E227204
KELLY RANCH, LLC.

RPO1S15E227202
MENNENGA, GARY

RPO1S15E227204
KELLY RANCH, LLC

RPO1S15E222407
SIMON FARMS, INC

RPO1S15E270001
BLACK BUTTE HILLS, LLC

N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

N: 600999.49
E: 1465522.12
EL: 4994.28
CP SPIKE

N: 601001.37
E: 1465455.05
EL: 4978.02
CP SPIKE

N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

N: 601296.17
E: 1465310.84
EL: 4988.52
CP S5R FOR BRIDGE

END CONSTRUCTION
MATCH EXISTING
STA=19+60.00
N=600796.37
E=1465978.08

79
N: 601066.51
E: 1465510.56
EL: 4978.87
CP SPIKE

82
N: 601296.17
E: 1465310.84
EL: 4988.52
CP SPIKE

78
N: 600999.49
E: 1465522.12
EL: 4994.28
CP SPIKE

81
N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

80
N: 601001.37
E: 1465455.05
EL: 4978.02
CP SPIKE

81
N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

82
N: 601296.17
E: 1465310.84
EL: 4988.52
CP S5R FOR BRIDGE

BEGIN CONSTRUCTION
MATCH EXISTING
STA=10+22.28
N=6001385.89
E=1465246.47

79
N: 601066.51
E: 1465510.56
EL: 4978.87
CP SPIKE

82
N: 601296.17
E: 1465310.84
EL: 4988.52
CP SPIKE

78
N: 600999.49
E: 1465522.12
EL: 4994.28
CP SPIKE

81
N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

80
N: 601001.37
E: 1465455.05
EL: 4978.02
CP SPIKE

81
N: 600898.16
E: 1465611.86
EL: 5004.12
CP S5R FOR BRIDGE

82
N: 601296.17
E: 1465310.84
EL: 4988.52
CP S5R FOR BRIDGE

TEMPORARY EASEMENT

ROW ACQUISITION

TEMPORARY EASEMENT

ROW ACQUISITION

TEMPORARY EASEMENT

ROW ACQUISITION

TEMPORARY EASEMENT

ROW ACQUISITION

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ROW ACQUISITION

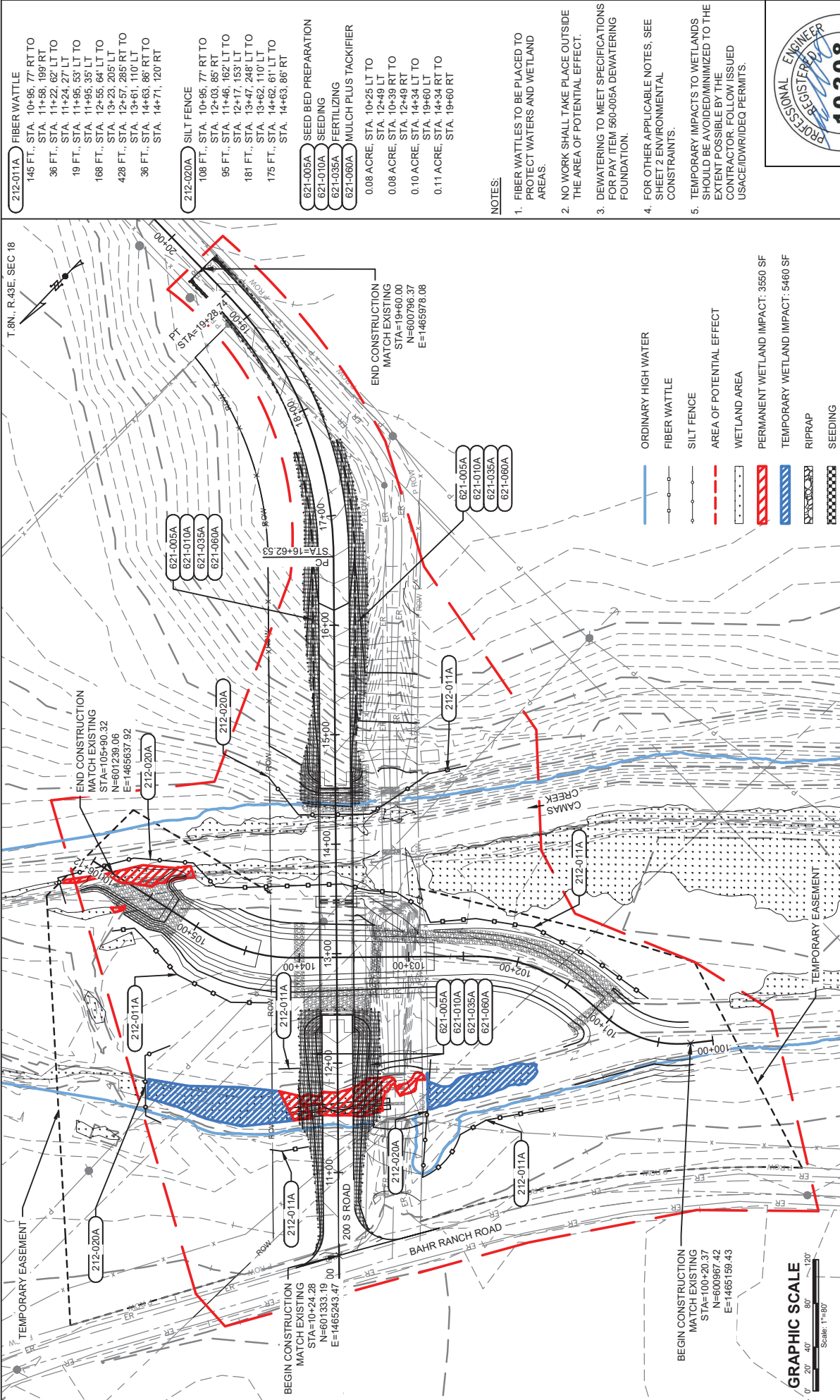
TEMPORARY EASEMENT

ROW ACQUISITION

TEMPORARY EASEMENT

ROW ACQUISITION

TEMPORARY EASEMENT



- 212-011A) FIBER WATTLE**
 145 FT., STA. 10+95.77 RT TO STA. 11+58.19 RT
 36 FT., STA. 11+22.82 LT TO STA. 11+24.27 LT
 19 FT., STA. 11+95.53 LT TO STA. 11+95.35 LT
 168 FT., STA. 12+55.84 LT TO STA. 12+23.90 LT
 428 FT., STA. 12+57.89 RT TO STA. 13+61.10 LT
 36 FT., STA. 14+63.86 RT TO STA. 14+71.120 RT

- 212-020A) SILT FENCE**
 108 FT., STA. 10+95.77 RT TO STA. 12+03.85 RT
 95 FT., STA. 11+46.162 LT TO STA. 12+17.153 LT
 181 FT., STA. 13+47.248 LT TO STA. 13+62.110 LT
 175 FT., STA. 14+62.81 LT TO STA. 14+63.86 RT

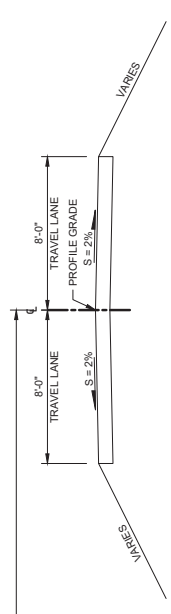
- 621-005A) SEED BED PREPARATION**
621-010A) SEEDING
621-035A) FERTILIZING
621-060A) MULCH PLUS TACKIFIER
 0.08 ACRE STA. 10+25 LT TO STA. 12+49 LT
 0.08 ACRE STA. 10+39 RT TO STA. 12+49 RT
 0.10 ACRE STA. 14+34 LT TO STA. 19+60 LT
 0.11 ACRE STA. 14+34 RT TO STA. 19+60 RT

- NOTES:**
 1. FIBER WATTLES TO BE PLACED TO PROTECT WATERS AND WETLAND AREAS.
 2. NO WORK SHALL TAKE PLACE OUTSIDE THE AREA OF POTENTIAL EFFECT.
 3. DEWATERING TO MEET SPECIFICATIONS FOR PAY ITEM 860-005A DEWATERING FOUNDATION.
 4. FOR OTHER APPLICABLE NOTES, SEE SHEET 2 ENVIRONMENTAL CONSTRAINTS.
 5. TEMPORARY IMPACTS TO WETLANDS SHOULD BE AVOIDED/MINIMIZED TO THE EXTENT POSSIBLE BY THE CONTRACTOR. FOLLOW ISSUED USACE/IDWR/REG PERMITS.



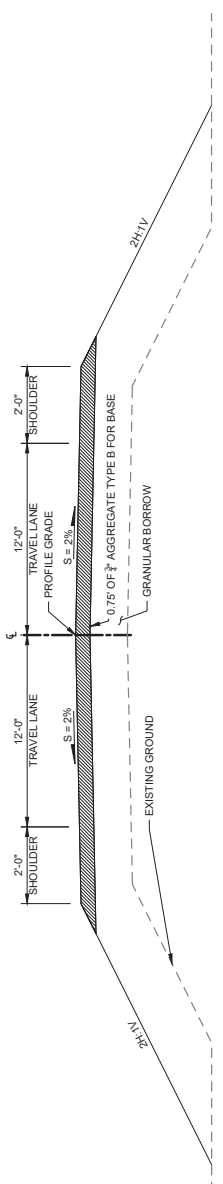
PROJECT NO. 02-23-0135	PROJECT NO. 02-23-0135
DRAWING NO. 18294	DRAWING NO. 18294
DATE: 9/23/26	DATE: 9/23/26
SHEET NO. 5 OF 47	SHEET NO. 5 OF 47
POLLUTION PREVENTION PLAN	
200 S ROAD OVER CAMAS CREEK	
207' PRESTRESSED CONCRETE BRIDGE	
FORSGREN Associates Inc.	
LEADING IDAHO LOCAL BRIDGE PROGRAM	
SCALES SHOWN	ARE FOR 11'x17' PRINTS ONLY
DRAWN	H. REAVIS
DESIGNED	H. REAVIS
APPROVED	S. TERRELL
DATE	BY DATE
NO. REVISIONS	BY DATE
This document or any part thereof is issued in total or design form as the property of Forsgren Associates Inc. and is not to be reproduced without the written authorization of Forsgren Associates Inc.	
BRIDGE KEY NUMBER	23801
DATE	9/23/26

200 S ROAD EXISTING
N.T.S.



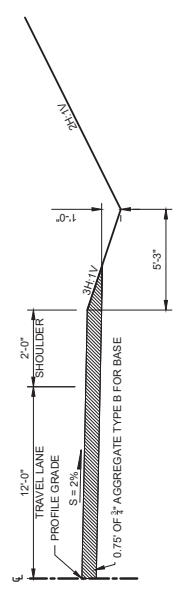
200 S ROAD
N.T.S.

STA 10+24.28 TO STA 12+43.95
STA 14+50.95 TO STA 19+60.00



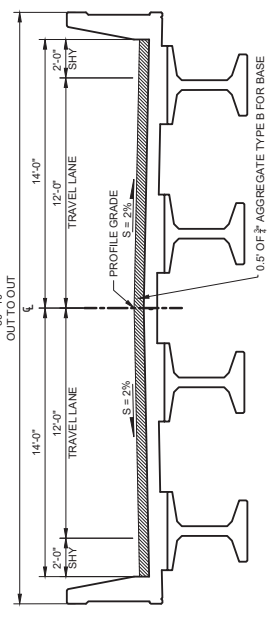
200 S ROAD - BORROW DITCH DETAIL
N.T.S.

STA 14+97.6 TO STA 17+65.00



200 S BRIDGE
N.T.S.

STA 12+43.95 TO STA 14+50.95
30'-10"



NOTE: STRUCTURAL BRIDGE DETAILS SHOWN IN PLANS ARE NOT FOR CONSTRUCTION

SCALE SHOWN	ARE FOR 11"x17"	PRINTS ONLY
DESIGNED	H. EVANS	COUNTY
APPROVED	S. YEARSLEY	BRIDGE KEY NUMBER
QA	S.W.A. DINGER	23801

LEADING IDAHO LOCAL BRIDGE PROGRAM

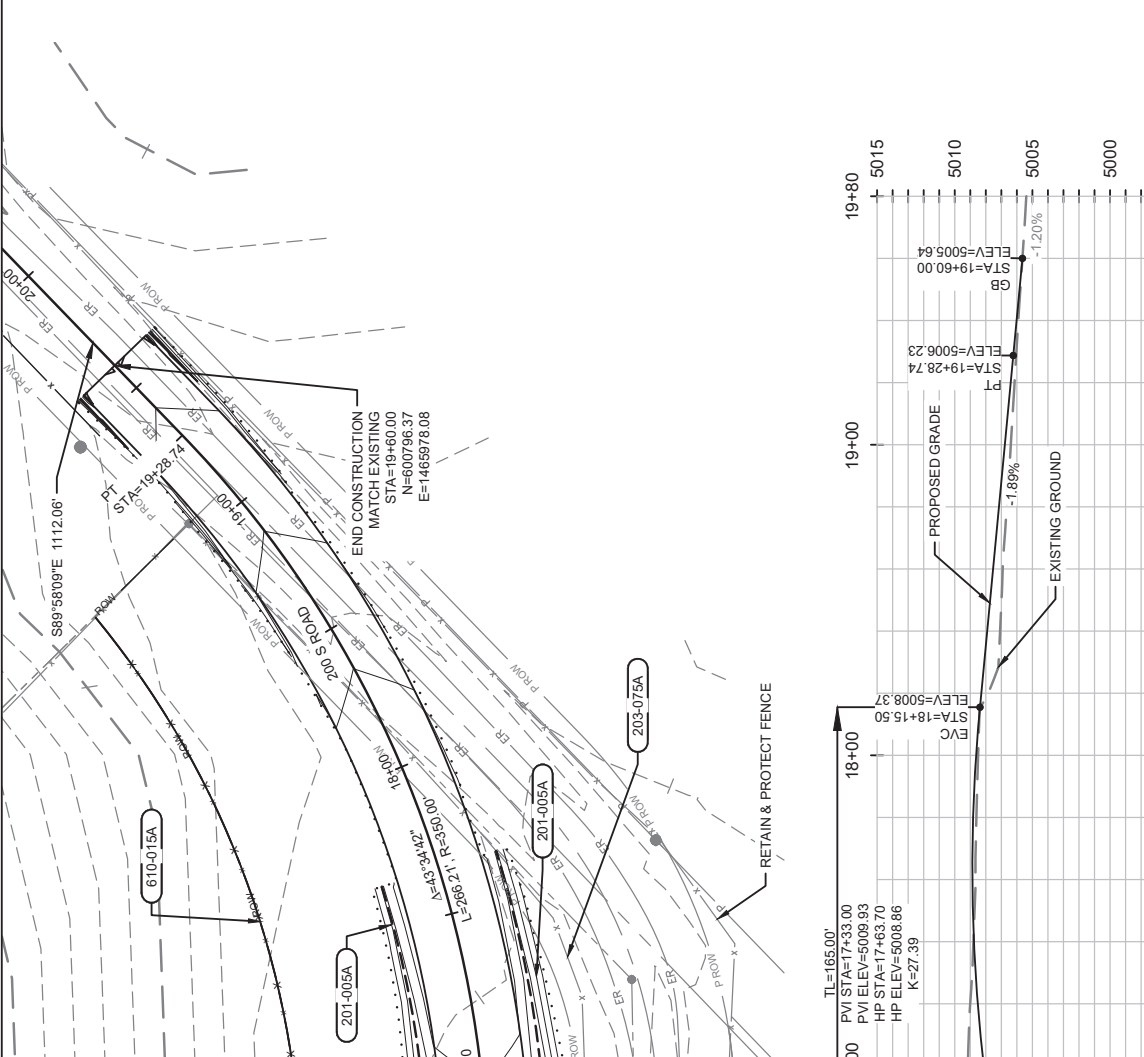


TYPICAL SECTIONS
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

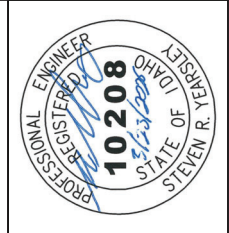
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DRAWING NO: 18294
DATE: 3/23/26
SHEET NO: 6 OF 47



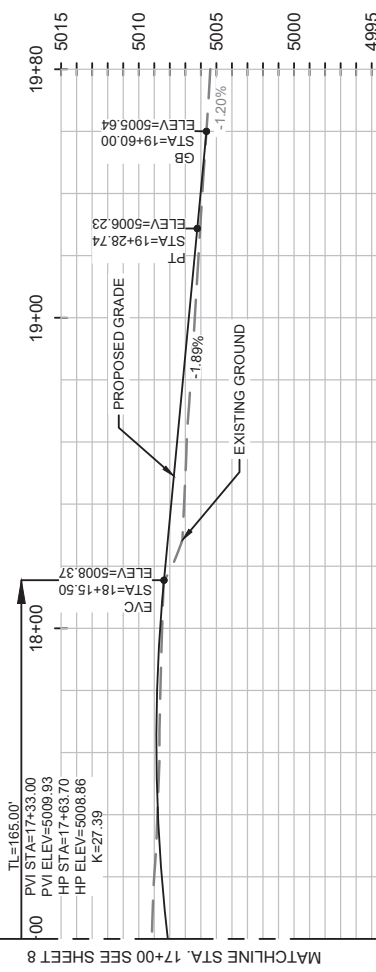
T.8N., R.43E, SEC.18



- 201-005A CLEARING & GRUBBING
0.03 ACRE, STA. 17+00 TO 19+60 LT
0.03 ACRE, STA. 17+00 TO 19+60 RT
- 203-075A REMOVAL OF FENCE
226 FT, STA. 17+00, 34' RT TO
STA. 19+13, 18' LT
- 610-015A FENCE TYPE 1 B
167 FT, STA. 17+00, 60' LT TO
STA. 19+02, 60' LT



PROFILE
5:1 HORIZ. TO VERT. SCALE



PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE:	3/23/26
SHEET NO.:	9 OF 47

PLAN & PROFILE STA 17+00 TO 19+60.00
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

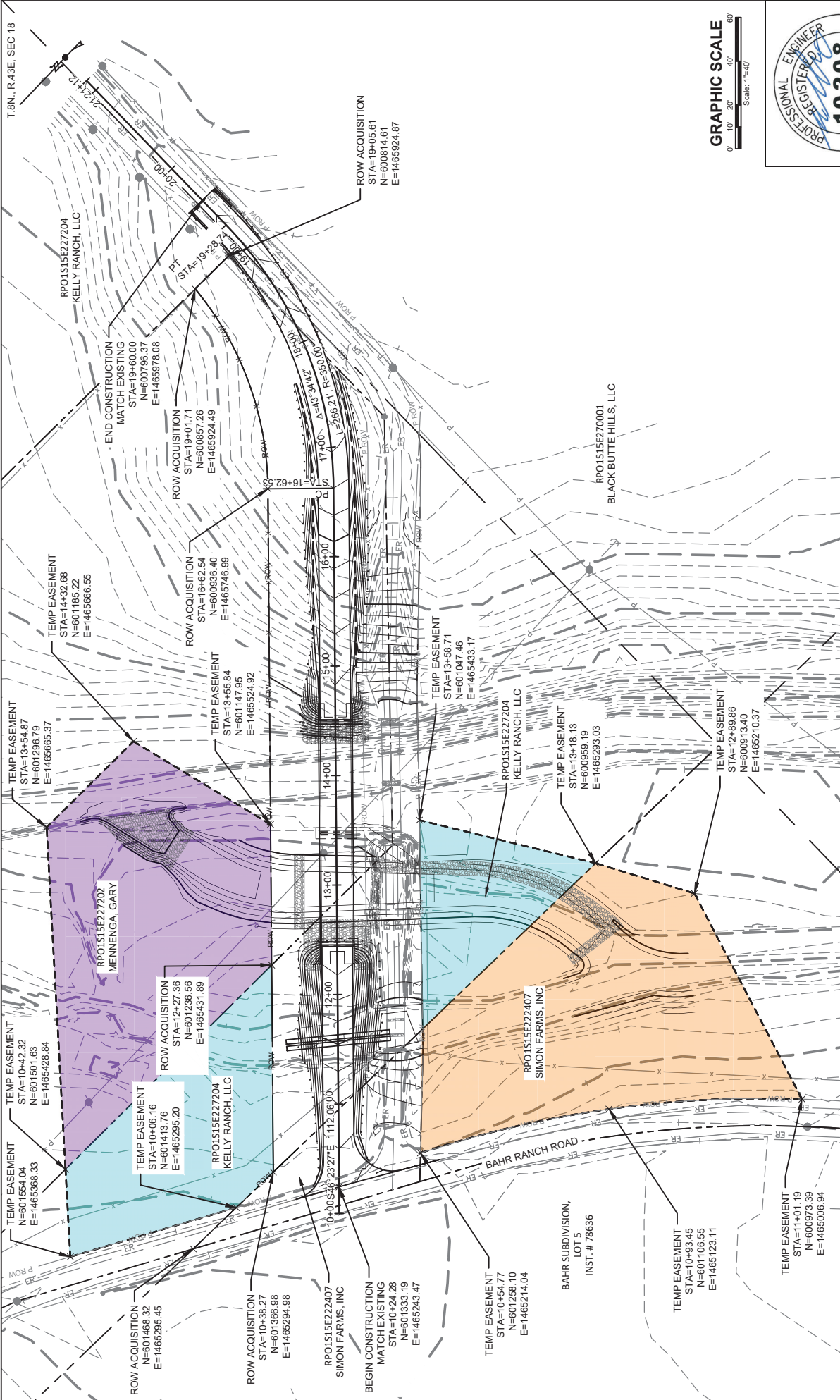


LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	ARE FOR 11x17 PLOTS ONLY
DESIGNED	BY DATE
APPROVED	BY DATE
BRIDGE KEY NUMBER	23801

DRAWN	H. REVING
DESIGNED	H. REVING
APPROVED	S. FARSLEY
QA	S.WALDBERG

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PROJECT NO: 02-23-0135
 DRAWING NO: 18294
 DATE: 9/23/26
 SHEET NO: 10 OF 47

EASEMENT & ROW DETAIL
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

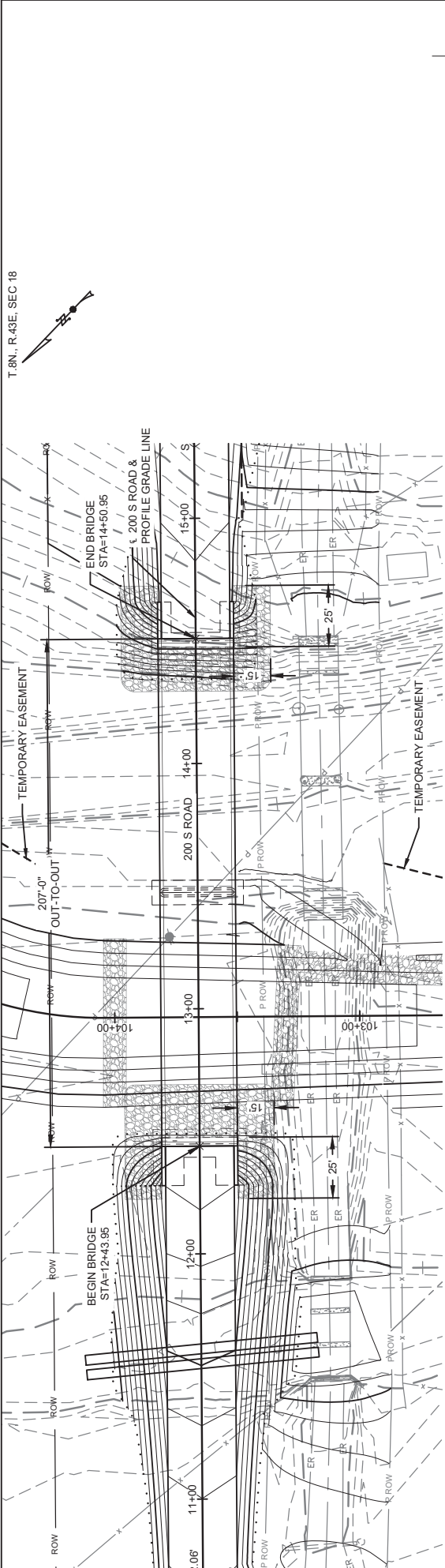


LEADING IDAHO LOCAL BRIDGE PROGRAM

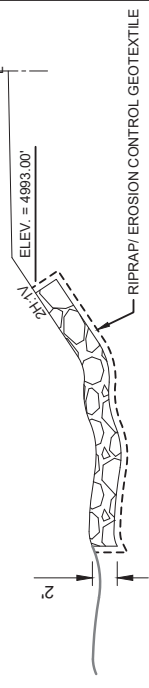
SCALES SHOWN ARE FOR 11"x17" PLOTS ONLY
 CAMAS
 BRIDGE KEY NUMBER 23801

DRAWN	H. REVING	DESIGNED	H. REVING	APPROVED	J. TEARSLE
BY DATE	BY DATE	BY DATE	BY DATE	BY DATE	BY DATE
REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
NO.	DATE	NO.	DATE	NO.	DATE

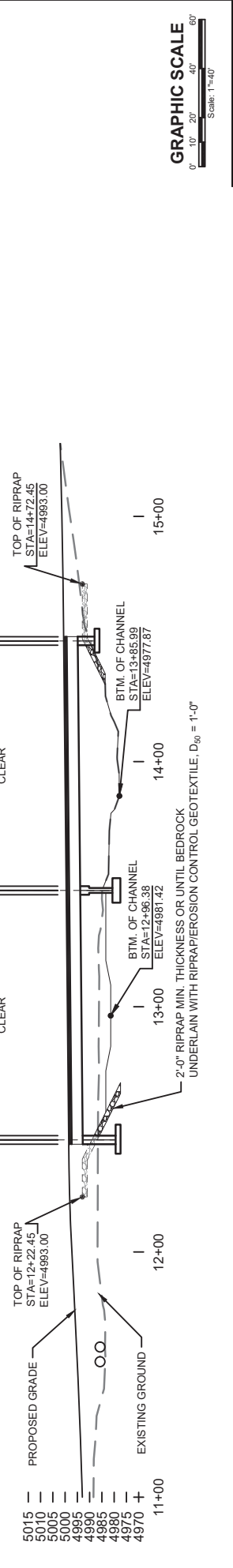
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BRIDGE PLAN
SCALE: 1"=40'



TYPICAL SECTION
A



BRIDGE ELEVATION
SCALE: 1"=40'

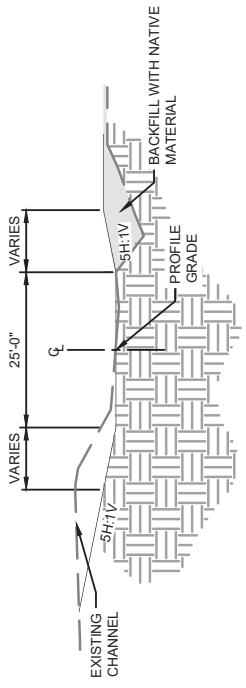


PROJECT NO. 02-23-0135		DRAWING NO. 18294		DATE: 9/23/26		SHEET NO. 11 OF 47	
RIPRAP DETAIL				200 S ROAD OVER CAMAS CREEK			
207' PRESTRESSED CONCRETE BRIDGE							
LEADING IDAHO LOCAL BRIDGE PROGRAM							
SCALES SHOWN ARE FOR 11'x17' PLOTS ONLY		DRAWN H. IRVING		DESIGNED H. IRVING		BRIDGE KEY NUMBER 23801	
APPROVED S. YEASSELL		BY DATE		BY DATE		S.W.A.L.D.B.G.E.R.	
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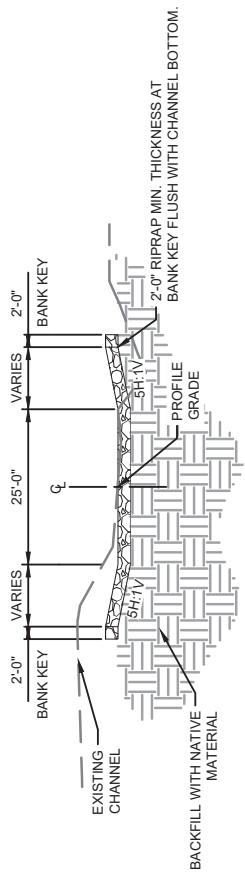
T. 8N., R. 43E, SEC 18

CHANNEL WORK NOTES

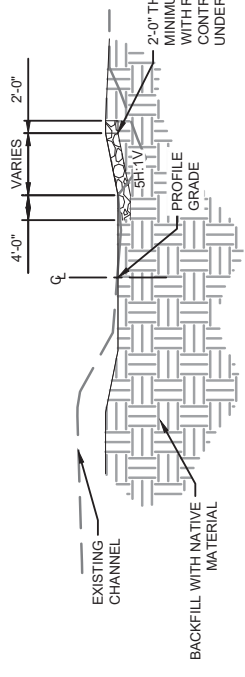
1. PAYMENT FOR CHANNEL EARTHWORK IS MADE UNDER PAY ITEM 205-005C.
2. PAYMENT FOR RIPRAP SHOWN IN THE CHANNEL ON SHEET 12 AND 13 IS MADE UNDER PAY ITEM 624-005B.
3. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING/PLACEMENT OF MATERIAL FOR CHANNEL IMPROVEMENTS.
4. THE PREVIOUSLY LISTED ITEMS ABOVE WILL BE PAID BY SURVEYED QUANTITIES IN THE FIELD.



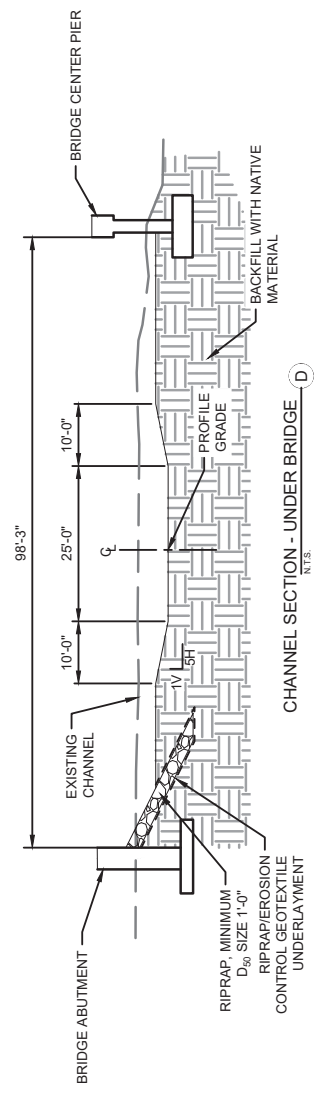
CHANNEL SECTION - NO RIPRAP
NT.S A



CHANNEL SECTION - WITH RIPRAP GRADE CONTROL STRUCTURE
NT.S B



CHANNEL SECTION - WITH RIPRAP BANK PROTECTION
NT.S C



CHANNEL SECTION - UNDER BRIDGE
NT.S D



PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE:	9/23/26
SHEET NO.:	13 OF 47

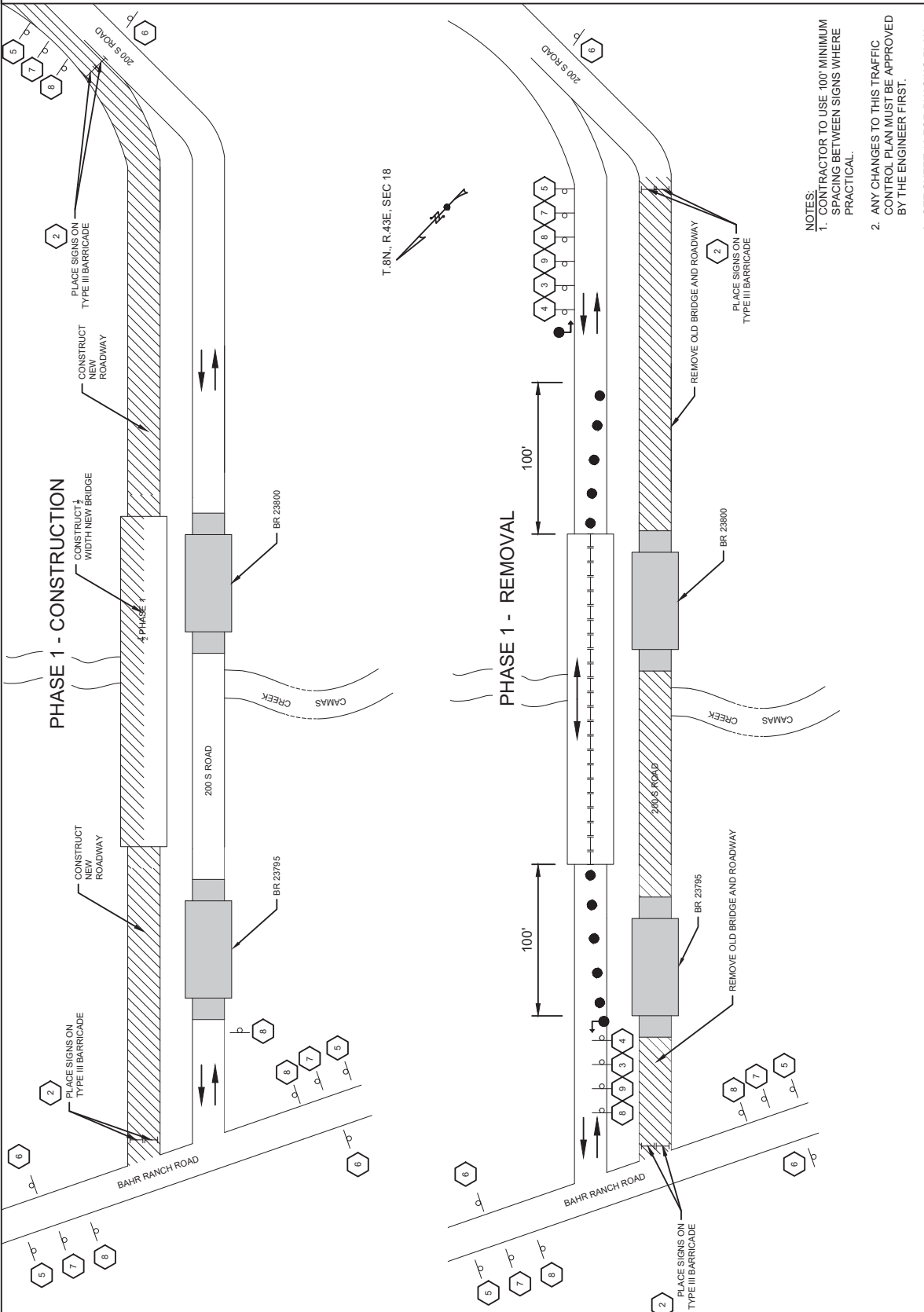
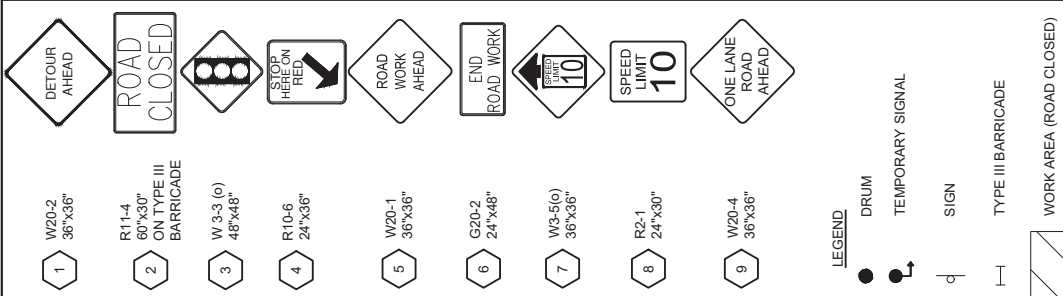
CHANNEL IMPROVEMENTS (2 OF 2)
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	AREA FOR 11'x17' PRINTS ONLY
DRAWN	H. IRVING
DESIGNED	H. IRVING
APPROVED	S. TEASSEL
BY	DATE
BRIDGE KEY NUMBER	23801

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PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE:	9/23/26
SHEET NO.:	15 OF 47

TRAFFIC CONTROL (1 OF 2)
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



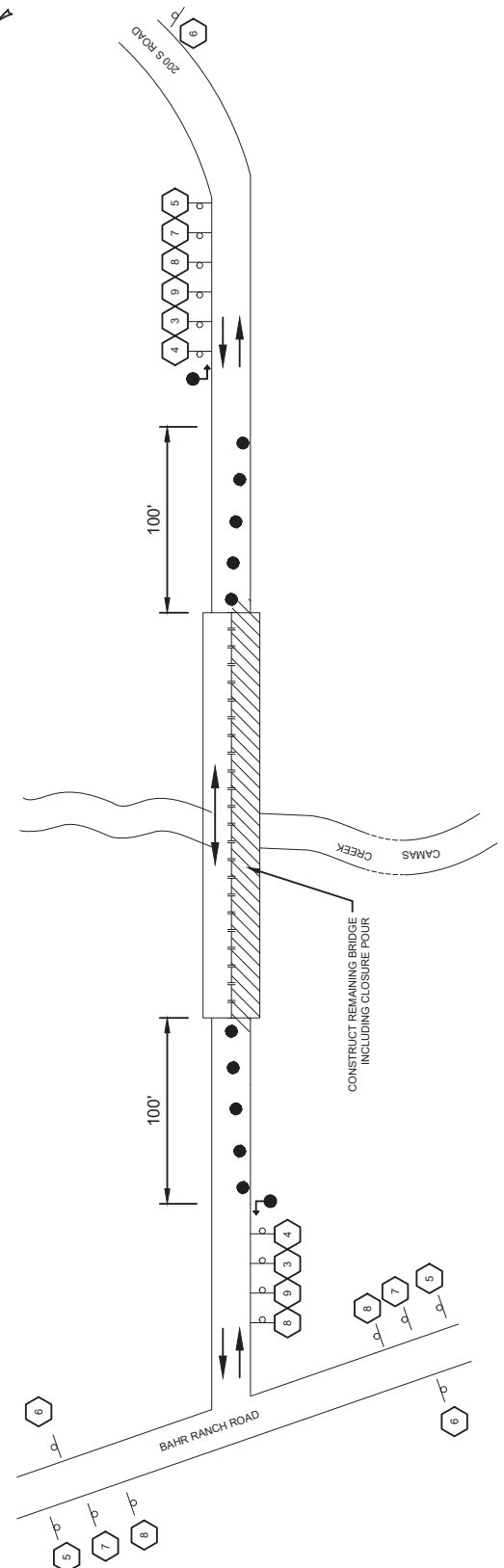
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN ARE FOR 11"x17' PLOTS ONLY	CAMAS	BRIDGE KEY NUMBER	23801
DRAWN	H. BRUNS	DESIGNED	H. BRUNS
APPROVED	S. TEASSEL	DATE	
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- NOTES:
- CONTRACTOR TO USE 100' MINIMUM SPACING BETWEEN SIGNS WHERE PRACTICAL.
 - ANY CHANGES TO THIS TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE ENGINEER FIRST.
 - SEE SHEET 18 FOR PHASING PLAN.

T.8N., R.43E, SEC.18

PHASES 2, 3 & 4 - CONSTRUCTION



1	W20-2 36"x36"	DETOUR AHEAD
2	R11-2 48"x30" ON TYPE III BARRICADE	ROAD CLOSED
3	W3-3 (o) 48"x48"	STOP ON RED
4	R10-6 24"x36"	ROAD WORK AHEAD
5	W20-1 36"x36"	END ROAD WORK
6	G20-2 24"x48"	ROAD WORK AHEAD
7	W3-5(o) 36"x36"	ROAD WORK AHEAD
8	R2-1 24"x30"	SPEED LIMIT 10
9	W20-4 36"x36"	ONE LANE ROAD AHEAD

LEGEND

- DRUM
- TEMPORARY SIGNAL
- SIGN
- TYPE III BARRICADE
- ▨ WORK AREA (ROAD CLOSED)

PROFESSIONAL ENGINEER
REGISTERED
10208
STATE OF IDAHO
STEVEN R. KERLEY

- NOTES:**
- CONTRACTOR TO USE 100' MINIMUM SPACING BETWEEN SIGNS WHERE PRACTICAL.
 - ANY CHANGES TO THIS TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE ENGINEER FIRST.
 - SEE SHEET 18 FOR PHASING PLAN.

PROJECT NO. 02-23-0135	TRAFFIC CONTROL (2 OF 2)
DRAWING NO. 18294	200 S ROAD OVER CAMAS CREEK
DATE: 9/23/26	207' PRESTRESSED CONCRETE BRIDGE
SHEET NO. 16 OF 47	

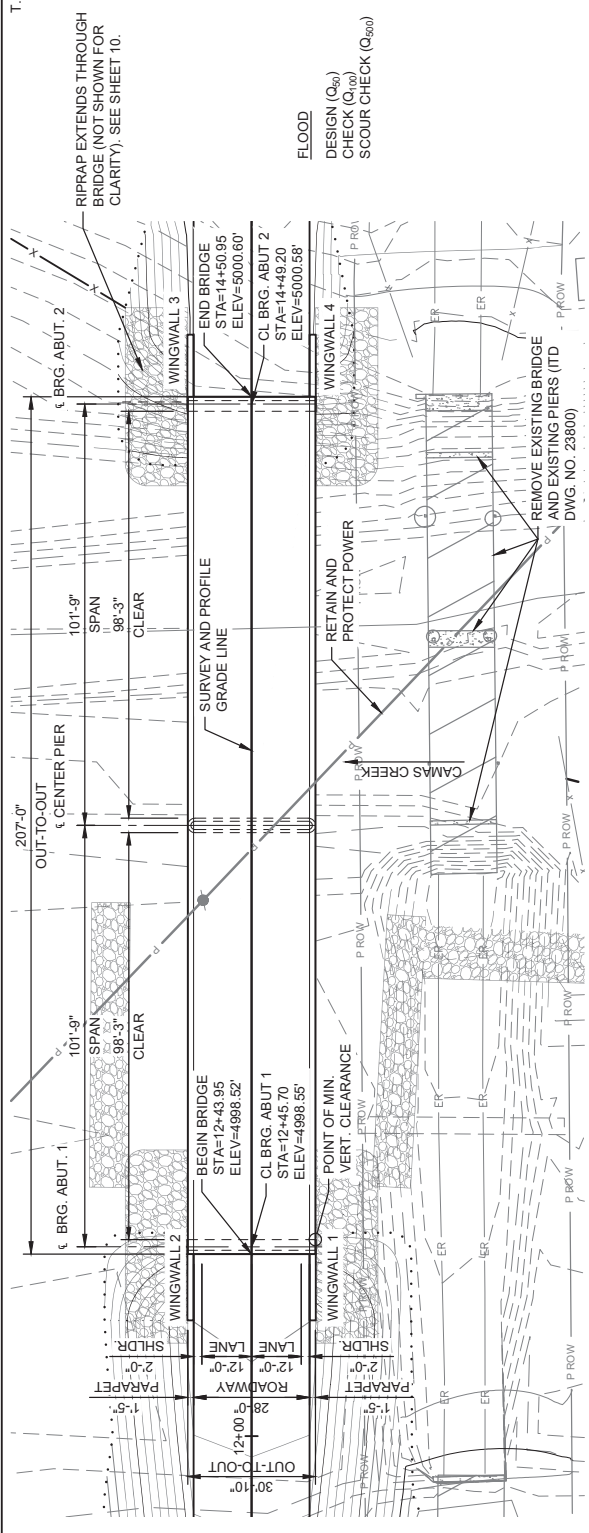
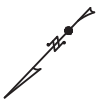


LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	SCALE
AREA FOR 11'x17' PRINTS ONLY	
CAMAS	
BRIDGE KEY NUMBER	23801
DRAWN	H. IRVING
DESIGNED	H. IRVING
APPROVED	S. YEASLEE
DATE	09/23/26
BY	DATE
NO. REVISIONS	

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T.8N., R.43E., SEC 18

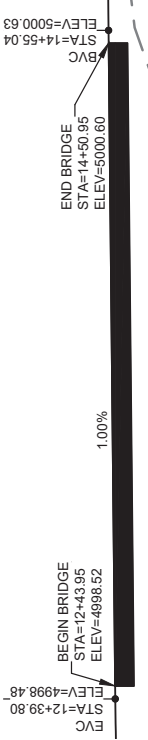


BRIDGE PLAN
1" = 30'-0"

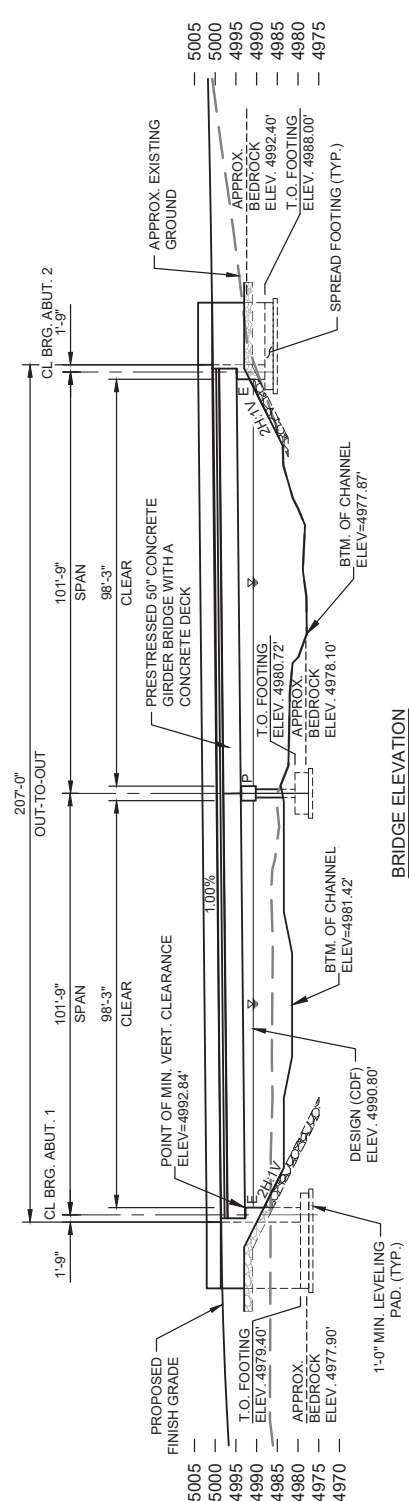
HYDRAULIC DATA

DISCHARGE	H.W. ELEVATION	VELOCITY
6220 CFS	4980.78 FT	5.08 FPS
6808 CFS	4980.99 FT	5.39 FPS
7709 CFS	4981.24 FT	5.92 FPS

FLOOD
DESIGN (Q₅₀)
CHECK (Q₁₀₀)
SCOUR CHECK (Q₅₀₀)



PROFILE DATA
N.T.S.



BRIDGE ELEVATION
1" = 30'-0"



PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE:	3/23/26
SHEET NO.:	17 OF 47

SITUATION & LAYOUT
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

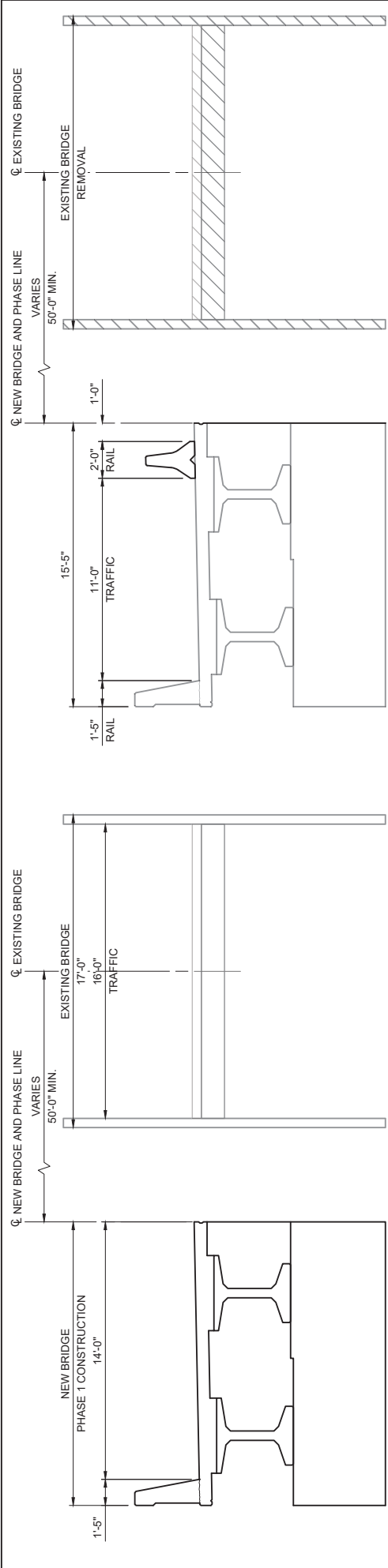


LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	ARE FOR 11"x17"
PRINTS ONLY	
CAMAS	
BRIDGE KEY NUMBER	23801

DRAWN	J. SCOTT
DESIGNED	J. LARSEN
APPROVED	R. SIEMAN
DATE	
BY	
QA	B. BRADSHAW

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PHASE 1 CONSTRUCTION
3/16"=1'-0"

PHASE 2 & 3 CONSTRUCTION
3/16"=1'-0"

PHASE 1 REMOVAL
3/16"=1'-0"

PHASE 4 CONSTRUCTION
3/16"=1'-0"

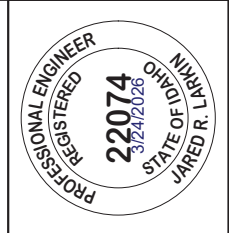
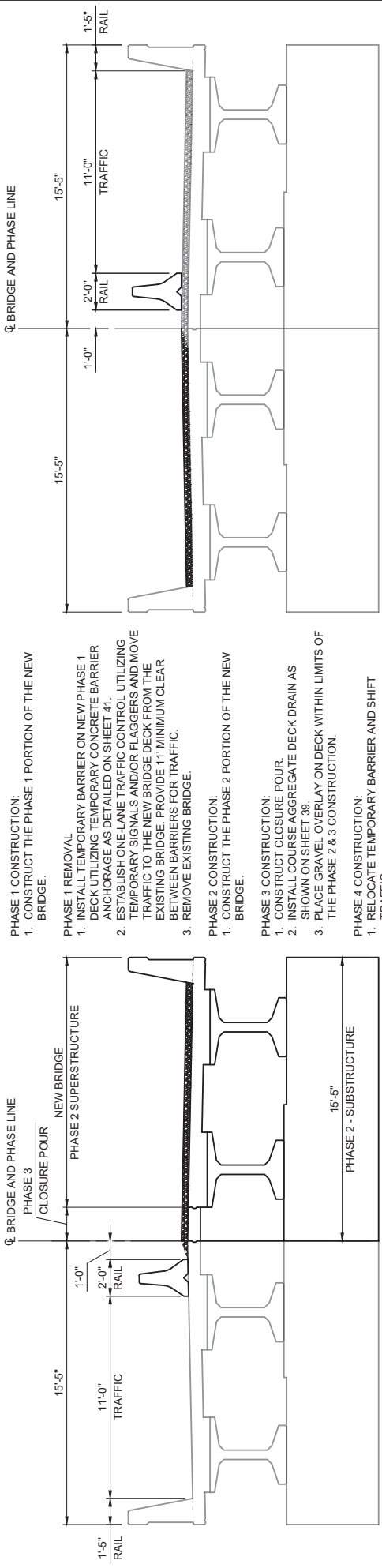
NOTES:
PHASE CONSTRUCTION OF THE BRIDGE NEAR THE NEW ABUTMENTS IS SHOWN. PHASE CONSTRUCTION OF BRIDGE IN OTHER AREAS IS SIMILAR.

PHASE 1 CONSTRUCTION:
1. CONSTRUCT THE PHASE 1 PORTION OF THE NEW BRIDGE.

PHASE 2 CONSTRUCTION:
1. CONSTRUCT THE PHASE 2 PORTION OF THE NEW BRIDGE.

PHASE 3 CONSTRUCTION:
1. CONSTRUCT CLOSURE POUR.

PHASE 4 CONSTRUCTION:
1. RELOCATE TEMPORARY BARRIER AND SHIFT TRAFFIC.
2. CLEAN AND FILL DECK HOLES WITH GROUT IN ACCORDANCE WITH 705.02
3. INSTALL COURSE AGGREGATE DECK DRAIN
4. PLACE REMAINDER OF GRAVEL OVERLAY ON DECK.
5. REMOVE TEMPORARY BARRIER AND FULLY OPEN BRIDGE TO 2-WAY TRAFFIC.



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 3/23/26
SHEET NO.: 18 OF 47

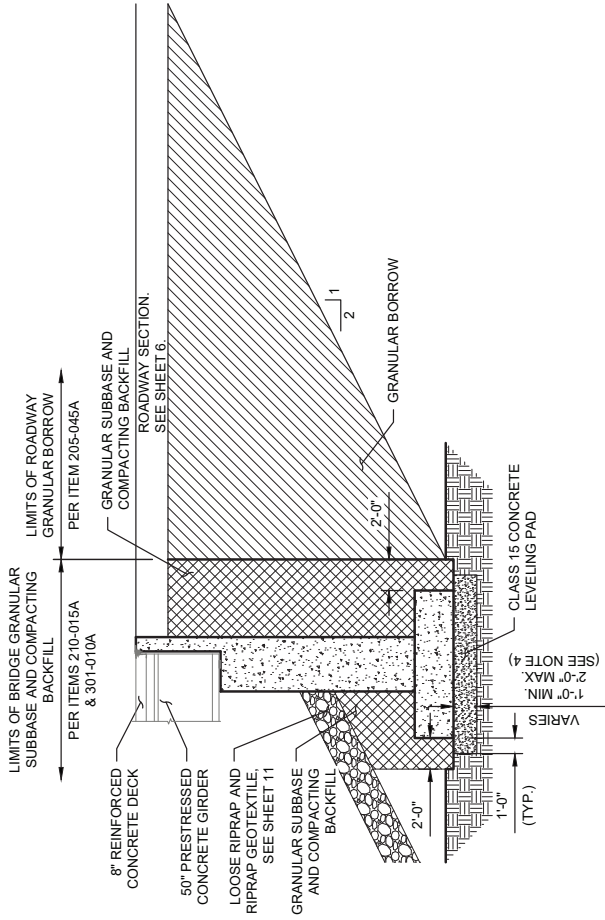
PHASING PLAN
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



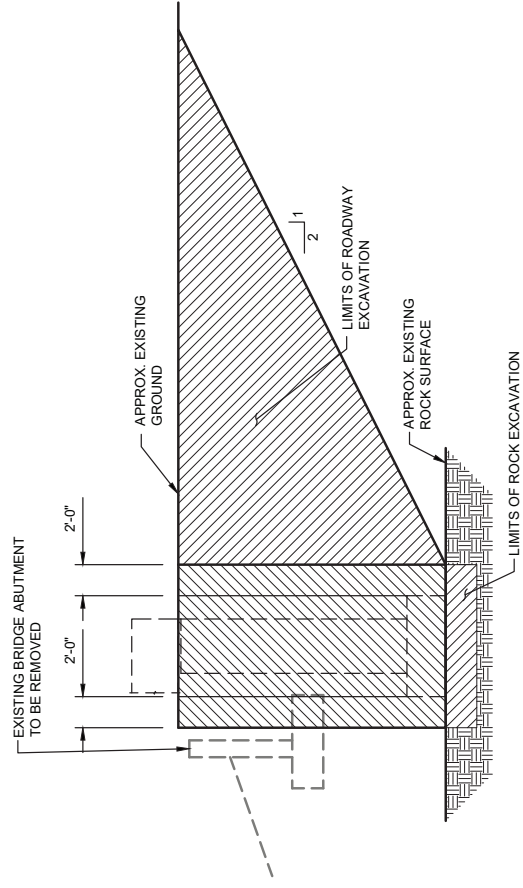
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALE SHOWN	ARE FOR 11"x17" PRINTS ONLY
DRAWN	J. GHAN
DESIGNED	B. PHOTOBOG
CHECKED	J. SHERMAN
APPROVED	J.R. SHERMAN
DATE	03/23/26
BRIDGE KEY NUMBER	23801
QA	B. BRADSHAW

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ABUTMENT BACKFILL DETAIL
N.T.S.



ABUTMENT EXCAVATION DETAIL
N.T.S.

- NOTES:
1. EXCAVATE ROCK AS NEEDED TO OBTAIN A MINIMUM 1'-0" THICK LEVELING PAD.
 2. USE CLASS 15 CONCRETE FOR LEVELING PAD UP TO 2'-0" THICK.
 3. ARTIFICIALLY ROUGHEN TOP OF LEVELING PAD TO 1/4" AMPLITUDE.
 4. IF SOUND ROCK IS MORE THAN 2'-0" BELOW BOTTOM OF FOOTING, CONTACT ENGINEER FOR BACKFILL DIRECTION.
 5. QUANTITY SHOWN FOR BID ITEM 210-005B, STRUCTURE EXCAVATION SCH. NO. 1 - ROCK, SHOWN ON SHEET 3 IS BASED ON AN ASSUMED UNIFORM EXCAVATION DEPTH OF 1'-6" BELOW THE BOTTOM OF THE FOOTINGS.



PROJECT NO.:	02-23-0135
DRAWING NO.:	18294
DATE:	3/23/26
SHEET NO.:	19 OF 47

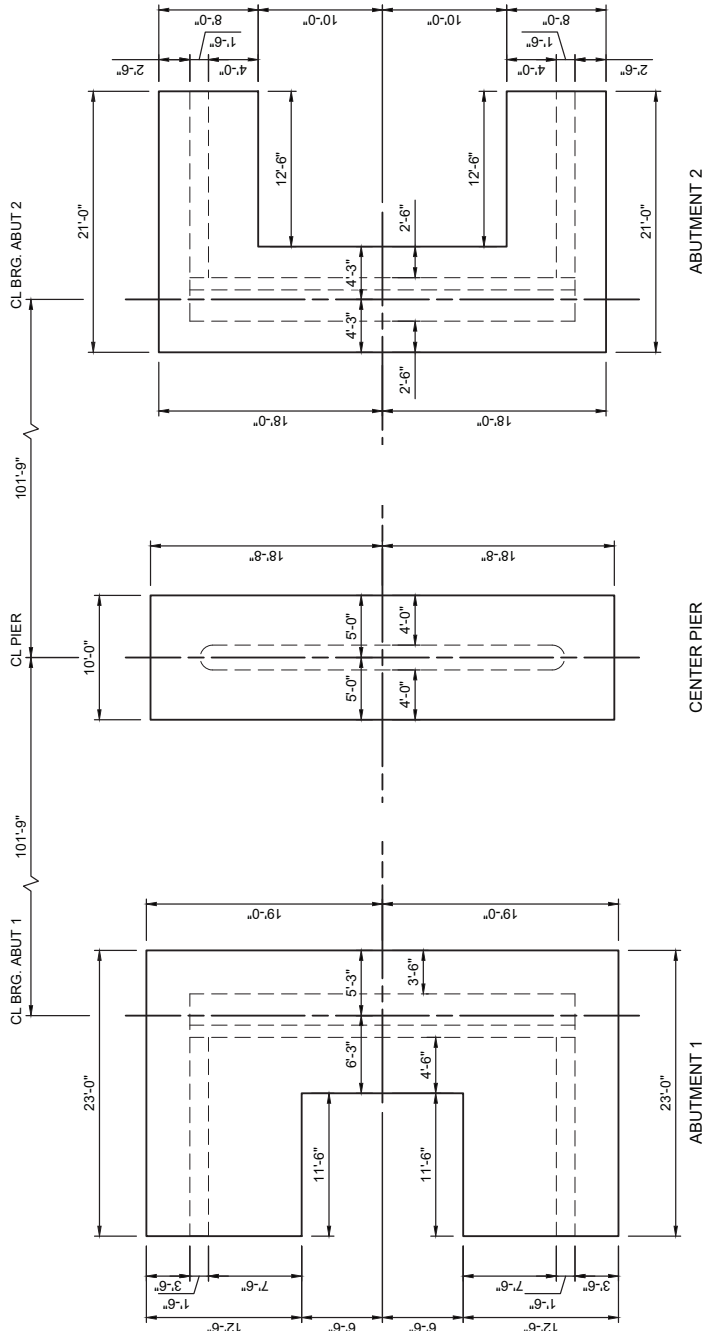
EXCAVATION AND BACKFILL
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	ARE FOR 11"x17" PRINTS ONLY
COUNTY	CAMAS
BRIDGE KEY NUMBER	23801

DRAWN	J. SCOTT
DESIGNED	J. JARVIN
APPROVED	J.R. SHERMAN
DATE	03/23/26



FOOTING LAYOUT PLAN
1" = 10'



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 3/23/26
SHEET NO.: 20 OF 47

FOOTING LAYOUT
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

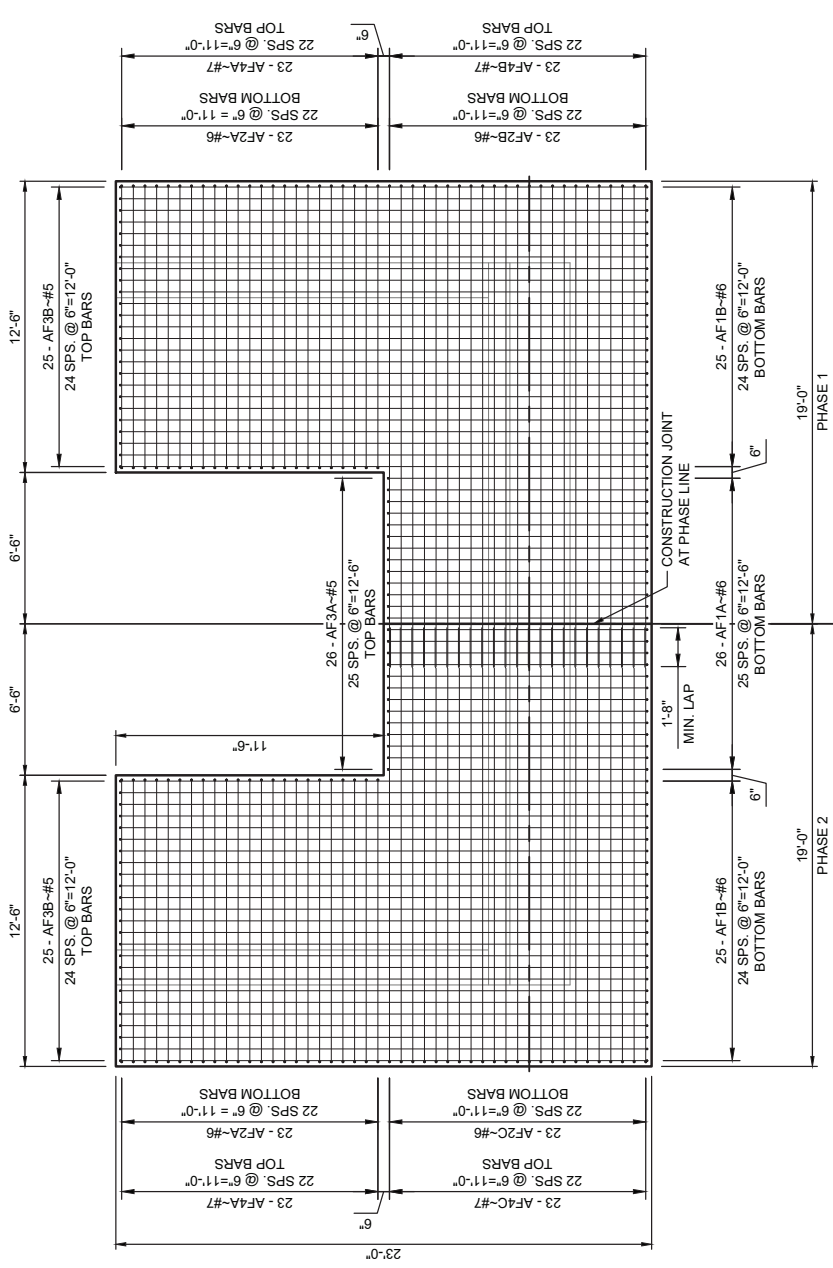


LEADING IDAHO LOCAL BRIDGE PROGRAM

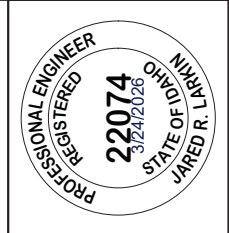
SCALES SHOWN	SCALE
ARE FOR 11"x17"	
PRINTS ONLY	
COUNTY	IDAHO
CANVAS	
BRIDGE KEY NUMBER	23801

DRAWN	J. SCOTT
DESIGNED	J. JARRIN
APPROVED	J. SHERMAN
DATE	03/23/26

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ABUTMENT 1 FOOTING PLAN
 3/16" = 1'-0"
 (LOOKING BACK ON STATION)



PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE	3/23/26
SHEET NO.	21 OF 47

ABUTMENT 1 FOOTING DETAILS
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

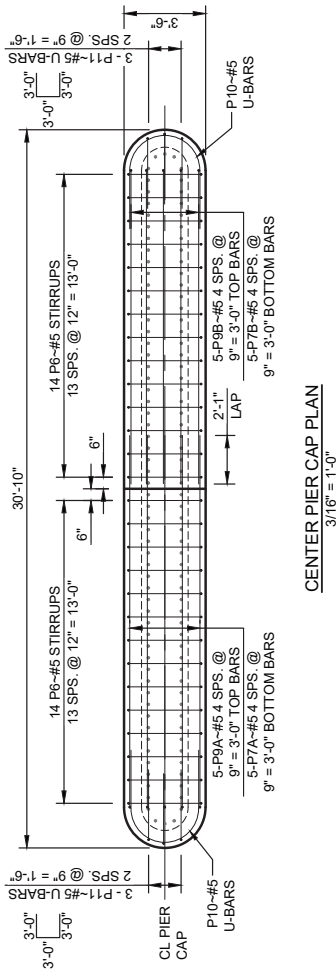


LEADING IDAHO
 LOCAL BRIDGE
 PROGRAM

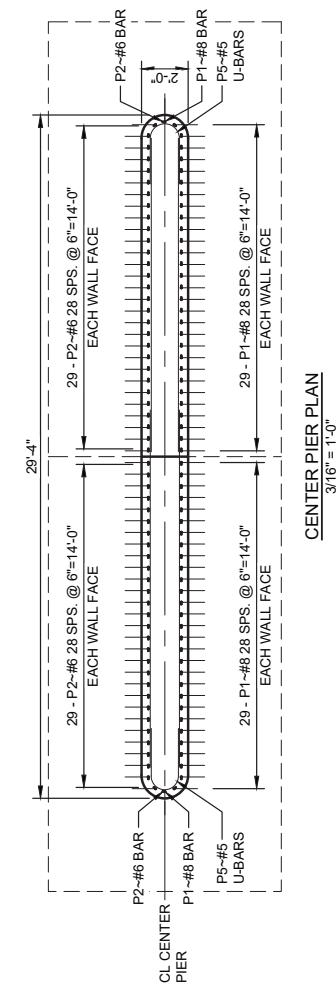
SCALES SHOWN	ARE FOR 11x17 PRINTS ONLY
COUNTY	CANVAS
BRIDGE KEY NUMBER	23801

DRAWN	J. SECOTI
DESIGNED	J. JARVIN
APPROVED	J. SHERMAN
QA	B. BRADSHAW

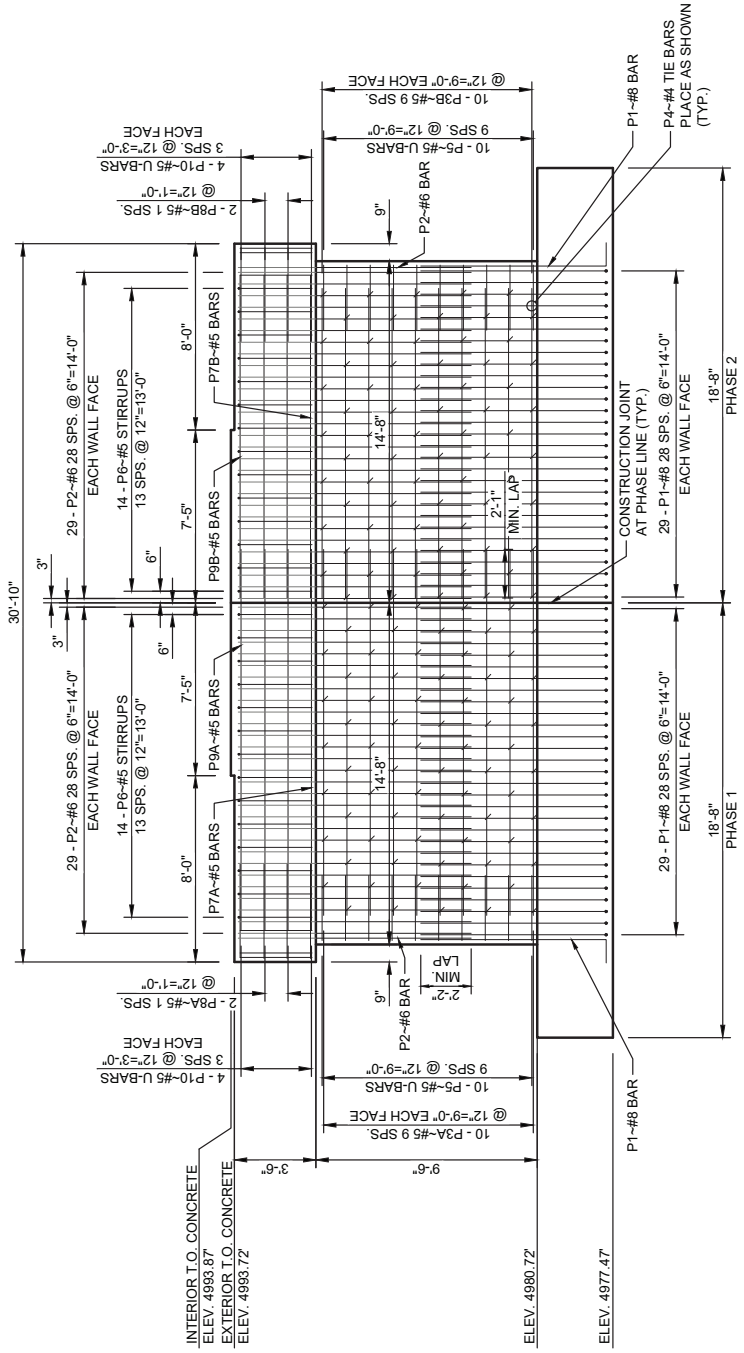
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CENTER PIER CAP PLAN
3/16" = 1'-0"



CENTER PIER PLAN
3/16" = 1'-0"



CENTER PIER ELEVATION
3/16" = 1'-0"
(LOOKING AHEAD ON STATION)



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 9/23/26
SHEET NO.: 25 OF 47

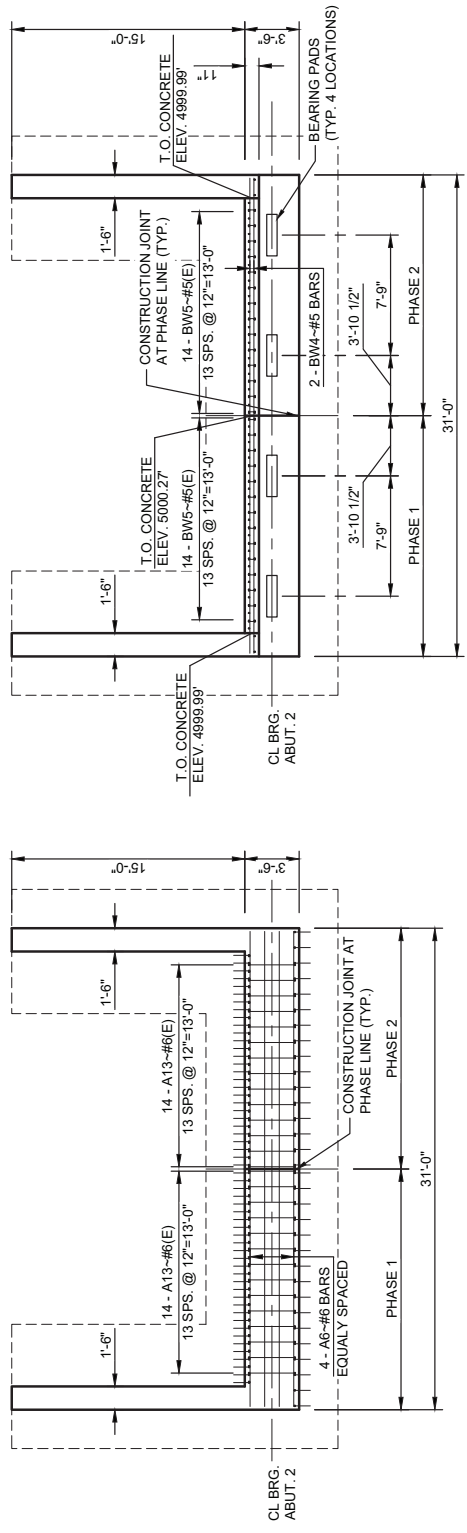
CENTER PIER PLAN AND ELEVATION
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



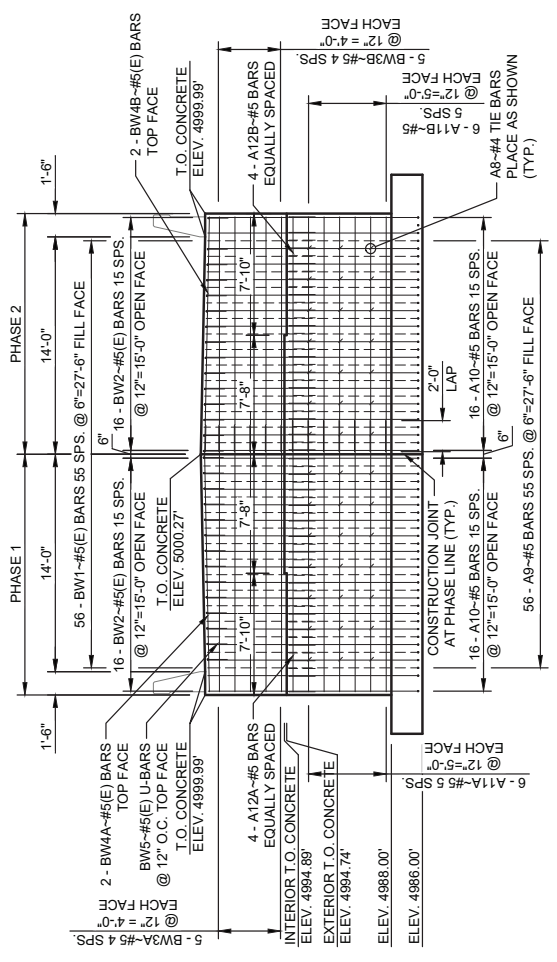
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	AREA FOR 11x17 PRINTS ONLY
DESIGNED	COUNTY
APPROVED	BRIDGE KEY NUMBER
QA	28801

DRAWN	T. GHAN
DESIGNED	B. PHOTOGRAPH
APPROVED	J.R. SHERMAN
QA	B. BRADSHAW



ABUTMENT 2 PLAN
 1/8" = 1'-0"
 (LOOKING AHEAD ON STATION)



ABUTMENT 2 ELEVATION
 1/8" = 1'-0"
 (LOOKING AHEAD ON STATION)



PROJECT NO.: 02-23-0135
 DRAWING NO.: 18294
 DATE: 3/23/26
 SHEET NO.: 26 OF 47

ABUT. 2 PLAN AND ELEVATION
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE



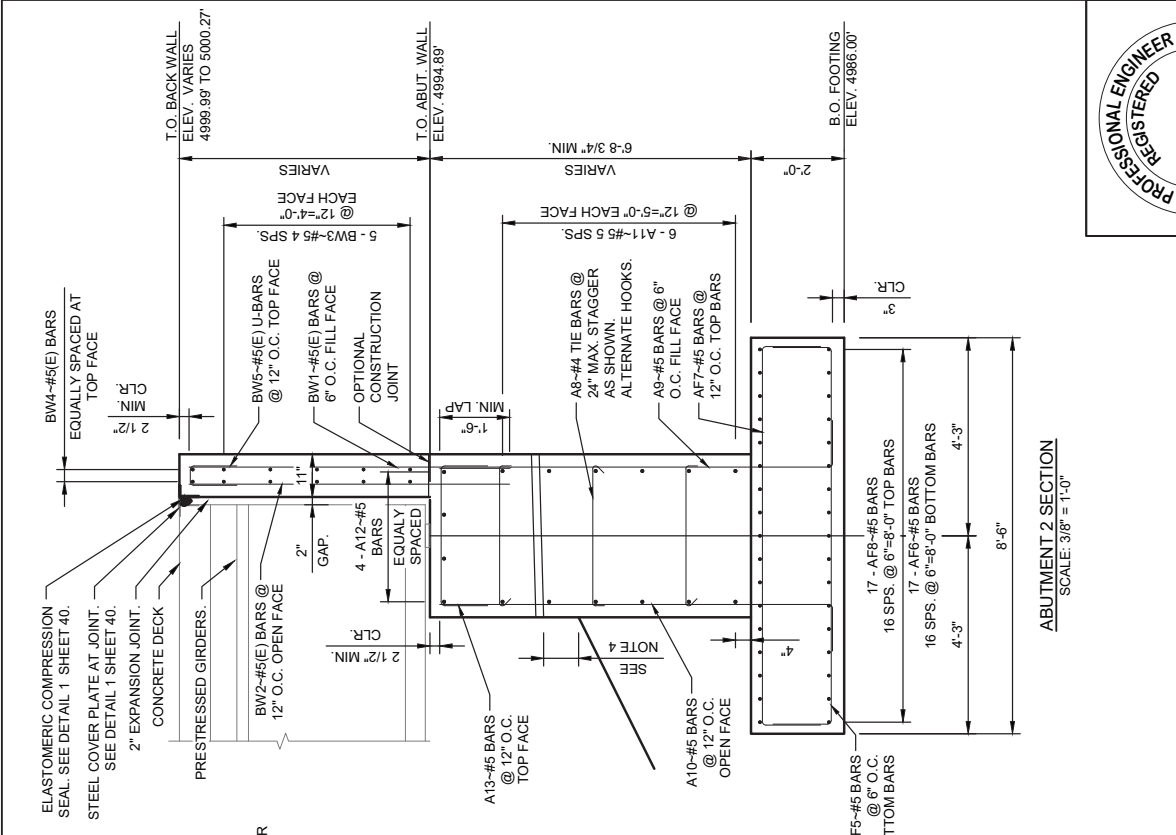
FORSYREN Associates, Inc.

LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALE SHOWN	ARE FOR 11"x17"
PRINTS ONLY	
COUNTY	CAMAS
BRIDGE KEY NUMBER	23801

DRAWN	J. SECOTT
DESIGNED	J. JARVIN
APPROVED	J.R. SHERMAN
QA	B. BRADSHAW

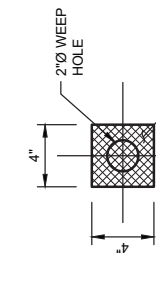
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ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A6-#6 BARS EQUALLY SPACED
 MIN. LAP 1'-6"

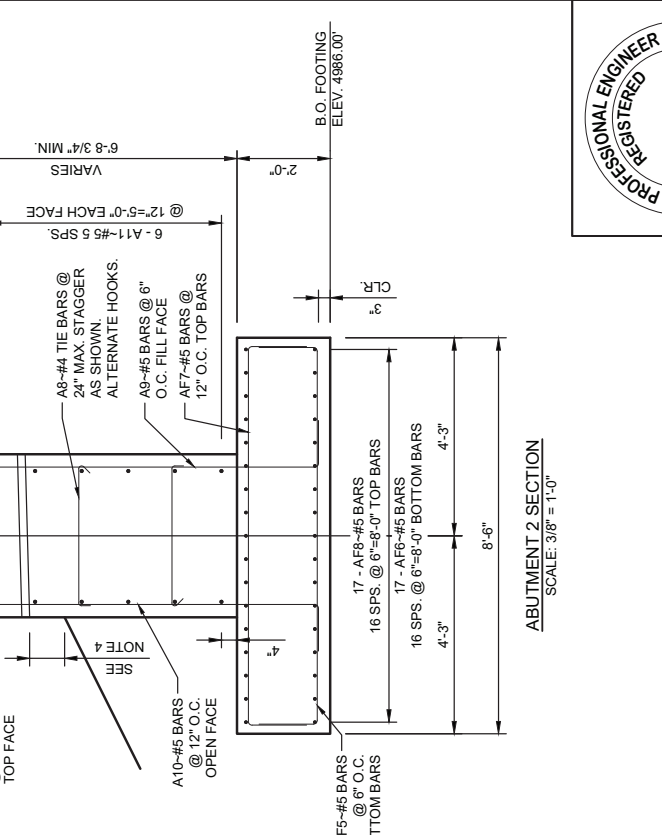
ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A6-#6 BARS EQUALLY SPACED
 MIN. LAP 1'-6"

ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A6-#6 BARS EQUALLY SPACED
 MIN. LAP 1'-6"



NOTES:
 1. STAINLESS STEEL MESH IS TO BE ATTACHED TO EXTERIOR ABUTMENT FACE WITH APPROVED SILICONE SEALANT. INCIDENTAL TO PAY ITEM 502-140A CONCRETE CLASS 40A SCHEDULE NO. 1.
 2. ENSURE MINIMUM 2" CLEARANCE TO TRANSVERSE AND LONGITUDINAL BARS. SHIFT REINFORCEMENT AS NECESSARY TO MAINTAIN MINIMUM CLEARANCE.
 PROTECTIVE MESH DETAIL
 SCALE: 1 1/2" = 1'-0"

NOTES:
 1. STAINLESS STEEL MESH IS TO BE ATTACHED TO EXTERIOR ABUTMENT FACE WITH APPROVED SILICONE SEALANT. INCIDENTAL TO PAY ITEM 502-140A CONCRETE CLASS 40A SCHEDULE NO. 1.
 2. ENSURE MINIMUM 2" CLEARANCE TO TRANSVERSE AND LONGITUDINAL BARS. SHIFT REINFORCEMENT AS NECESSARY TO MAINTAIN MINIMUM CLEARANCE.
 PROTECTIVE MESH DETAIL
 SCALE: 1 1/2" = 1'-0"



ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A12-#5 BARS EQUALLY SPACED
 MIN. LAP 1'-6"

ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A12-#5 BARS EQUALLY SPACED
 MIN. LAP 1'-6"

ELASTOMERIC COMPRESSION SEAL - SEE DETAIL 1 SHEET 40.
 STEEL COVER PLATE AT JOINT - SEE DETAIL 1 SHEET 40.
 2" EXPANSION JOINT.
 CONCRETE DECK
 PRESTRESSED GIRDERS.
 BW2-#5(E) BARS @ 12" O.C. OPEN FACE
 4 - A12-#5 BARS EQUALLY SPACED
 MIN. LAP 1'-6"



PROJECT NO. 02-23-0135
 DRAWING NO. 18294
 DATE: 9/23/26
 SHEET NO. 27 OF 47

ABUTMENT DETAILS
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE



FORSYDEN Associates, Inc.

LEADING IDAHO LOCAL BRIDGE PROGRAM

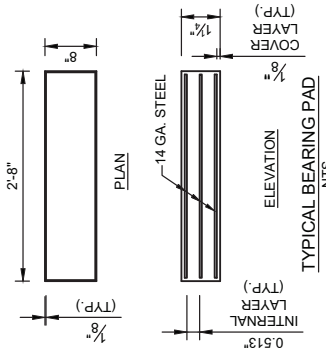
NO.	REVISIONS	BY	DATE

SCALES SHOWN ARE FOR 1 1/4" X 17" PRINTS ONLY

DRAWN	J. SHERMAN
DESIGNED	J. SHERMAN
APPROVED	J. SHERMAN
CHECKED	B. BRADSHAW

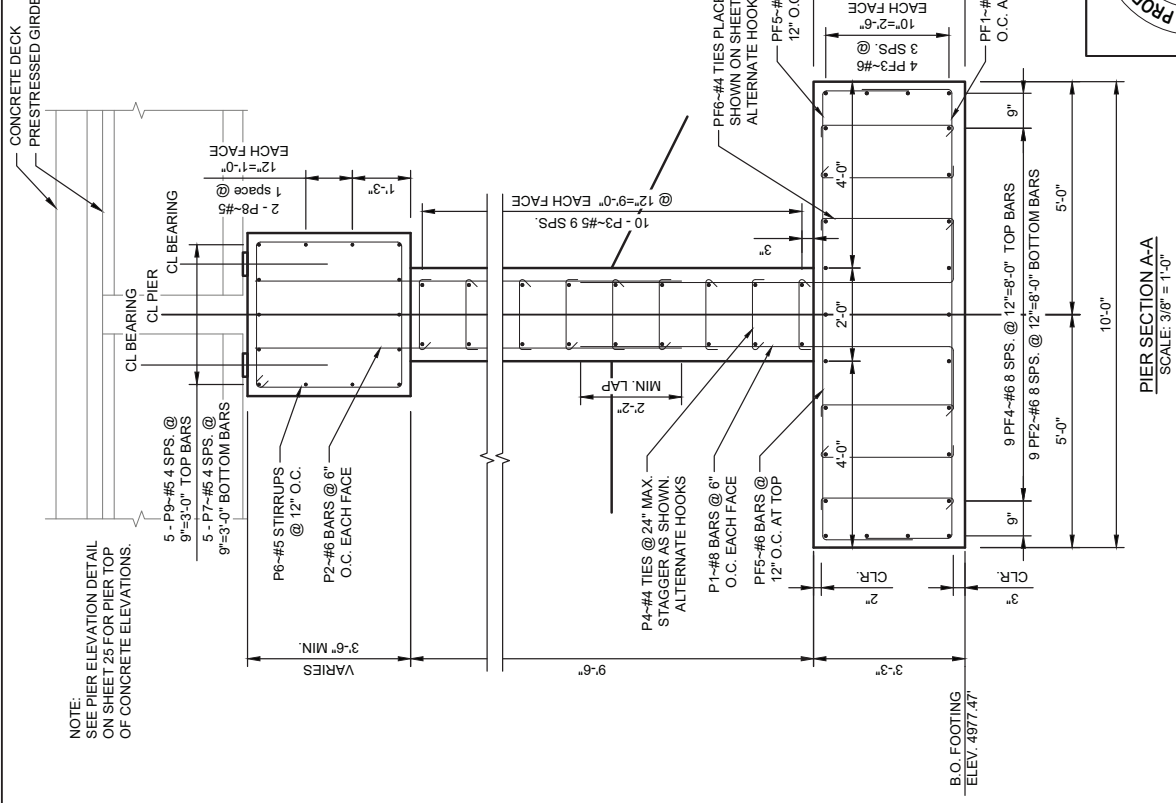
BRIDGE KEY NUMBER: 23801

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TYPICAL BEARING PAD NIS

ELASTOMERIC BEARINGS
 DESIGN PROCEDURE: METHOD B
 SHEAR MODULUS 130 PSI
 GRADE 4 POLYISOPRENE
 DESIGN LOADS: SERVICE I = 288 KIPS PER BRG.



NOTE:
 SEE PIER ELEVATION DETAIL
 ON SHEET 25 FOR PIER TOP
 OF CONCRETE ELEVATIONS.



PROJECT NO.: 02-23-0135
 DRAWING NO.: 18294
 DATE: 9/23/26
 SHEET NO.: 28 OF 47

CENTER PIER DETAIL
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

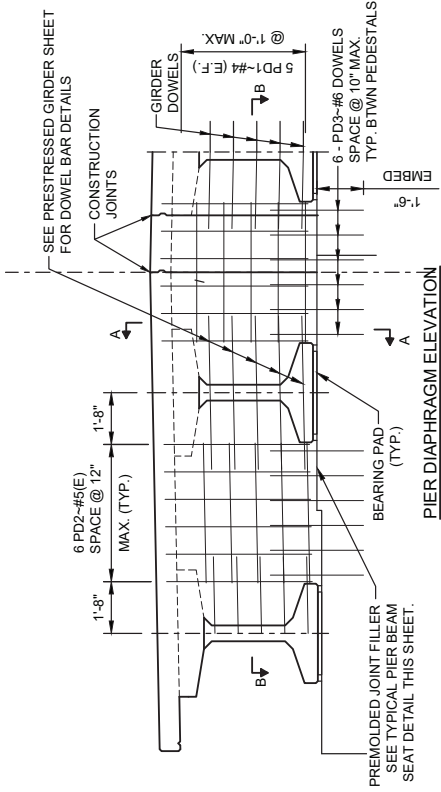


LEADING IDAHO
 LOCAL BRIDGE
 PROGRAM

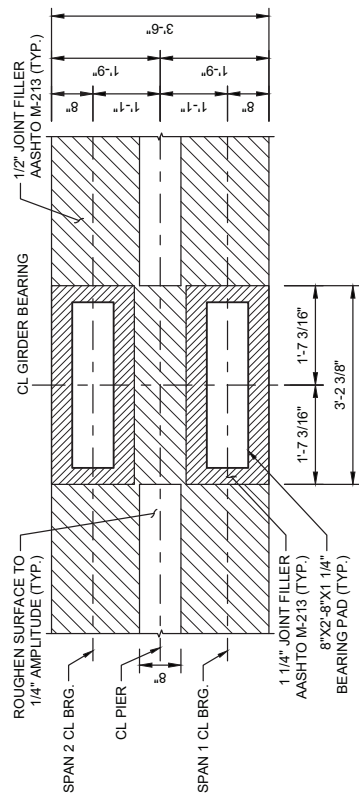
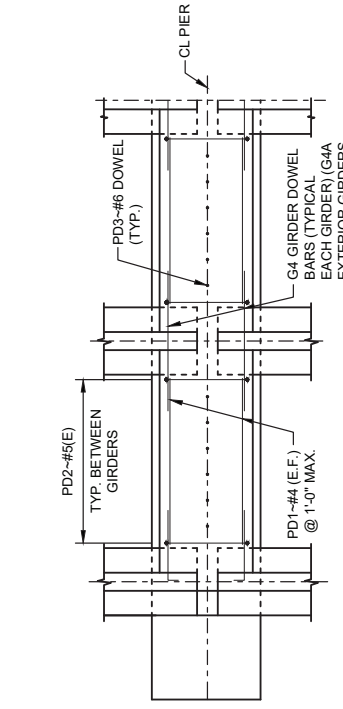
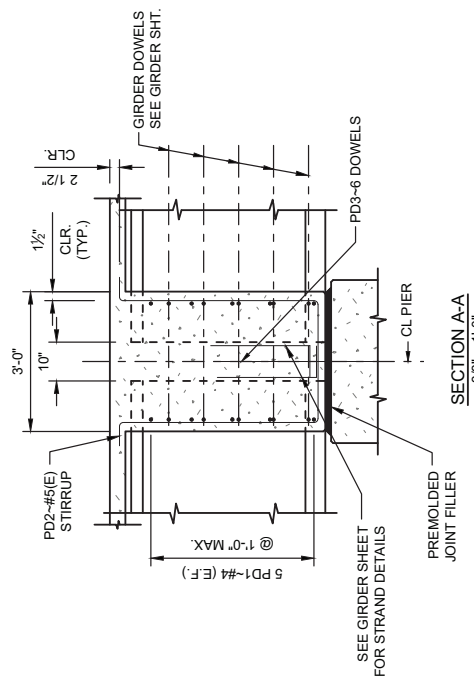
SCALES SHOWN	ARE FOR 11"x17"
PRINTS ONLY	COUNTY
CAMAS	BRIDGE KEY NUMBER
28801	

DRAWN	J. SECOT
DESIGNED	J. JARVIN
APPROVED	J.R. SHERMAN
QA	B. BRADFIELD

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NOTE:
NO HORIZONTAL CONSTRUCTION JOINTS ALLOWED BETWEEN TOP SLAB AND PIER DIAPHRAGM



PROJECT NO. 02-23-0135		DRAWING NO. 18294	
DATE: 9/23/26		SHEET NO. 29 OF 47	
PIER DIAPHRAGM DETAILS			
200 S ROAD OVER CAMAS CREEK			
207' PRESTRESSED CONCRETE BRIDGE			



LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	ARE FOR 11'X17' PRINTS ONLY
DRAWN	T. GHAN
DESIGNED	B. PHOTOHOS
APPROVED	J.R. SHERMAN
DATE	9/23/26
BRIDGE KEY NUMBER	23801





PROJECT NO.: 02-23-0135
 DRAWING NO.: 18294
 DATE: 3/23/26
 SHEET NO.: 30 OF 47

WING WALLS 1 & 2 DETAILS
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

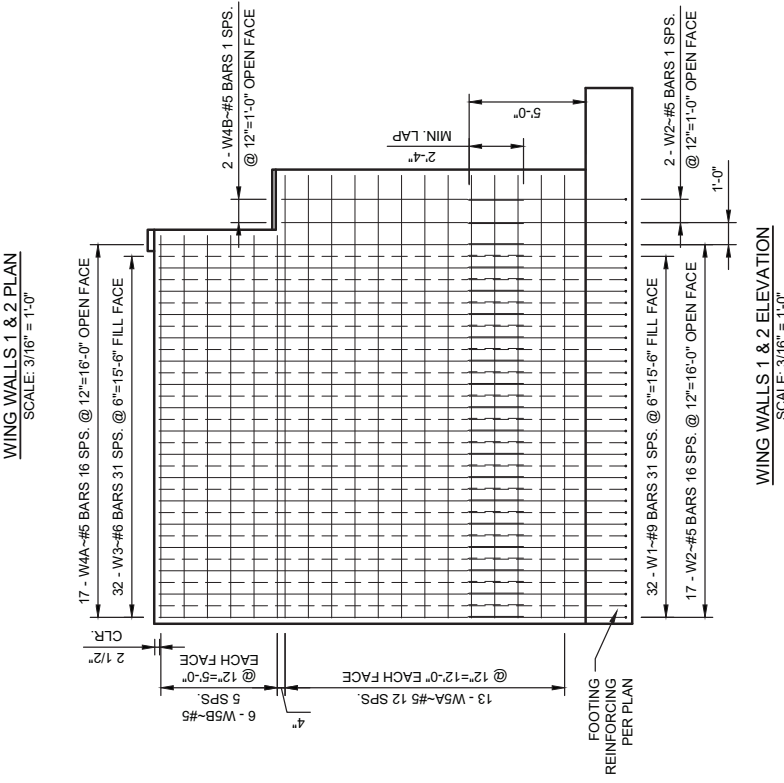
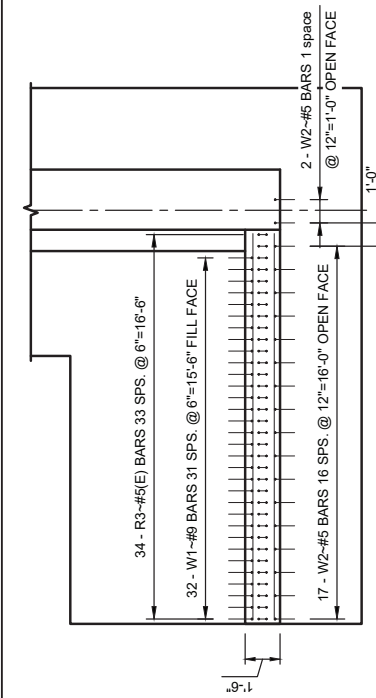
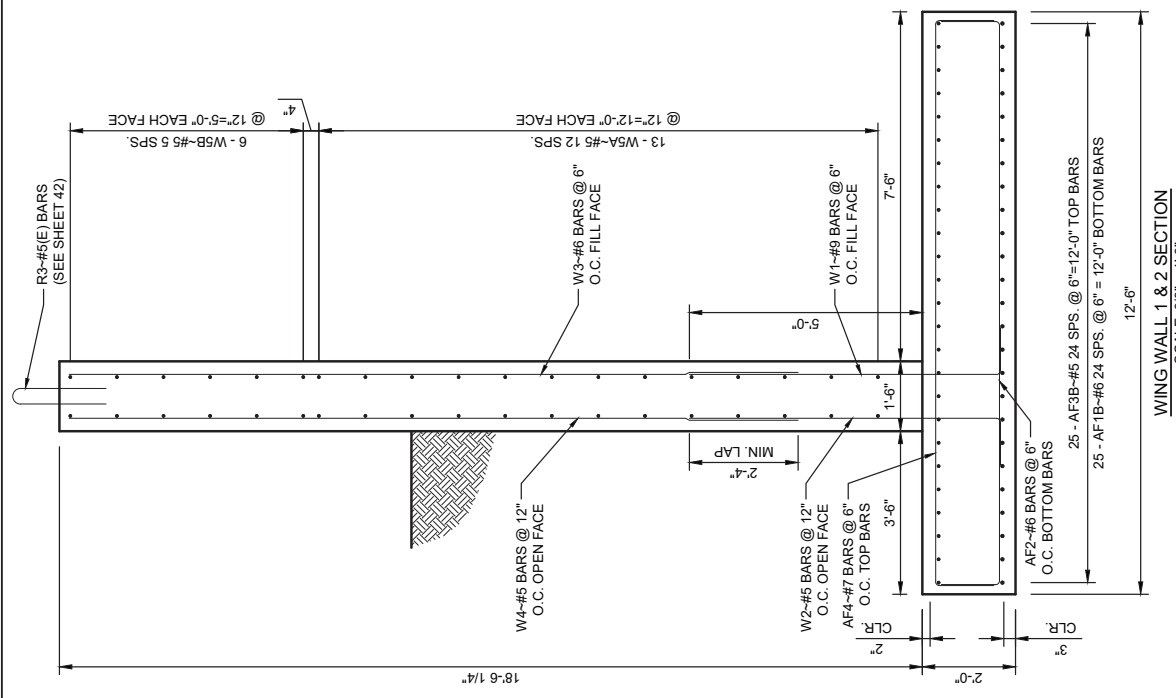


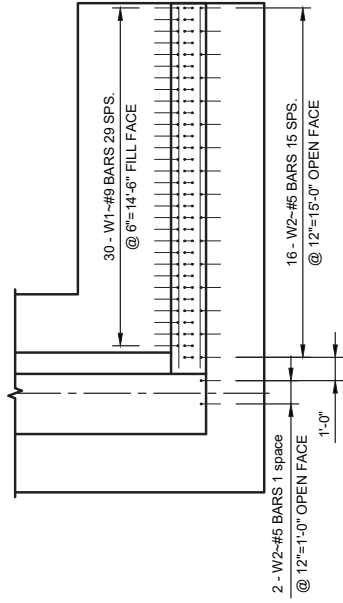
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN
 ARE FOR 11"x17"
 PRINTS ONLY
 COUNTY: CAMAS
 BRIDGE KEY NUMBER: 23801

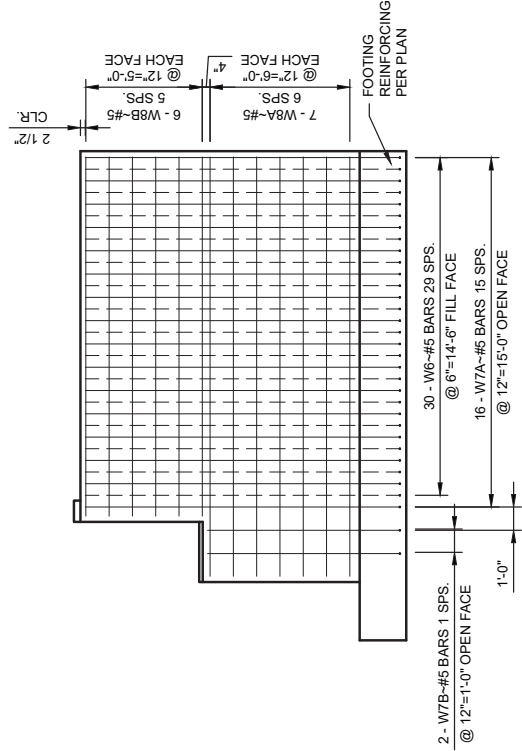
DRAWN: J. GHAN
 DESIGNED: B. PHOTOHOS
 APPROVED: J.R. SHERMAN
 BY DATE
 GA B. BRADFIELD

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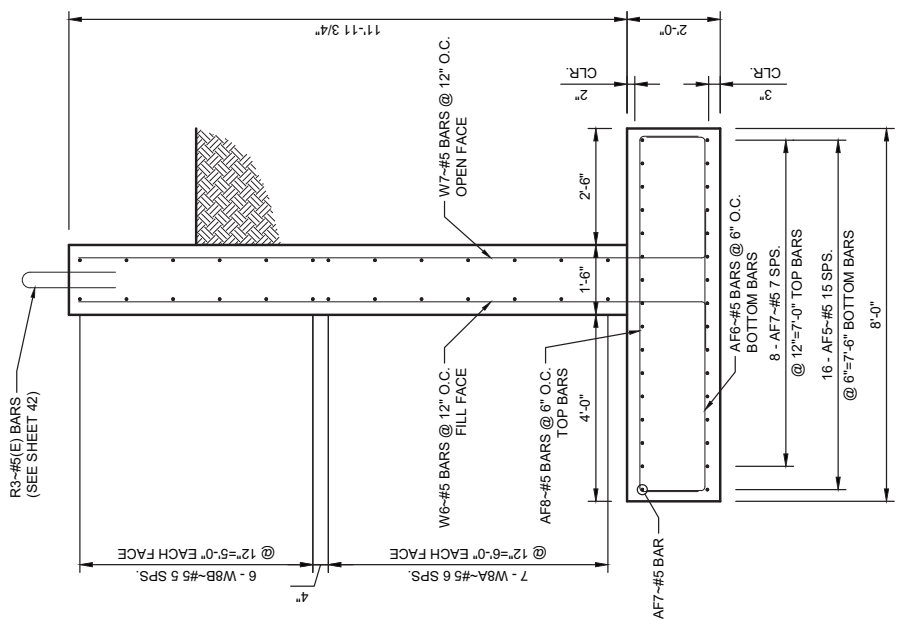




WING WALLS 3 & 4 PLAN
SCALE: 3/16" = 1'-0"



WING WALLS 3 & 4 ELEVATION
SCALE: 3/16" = 1'-0"

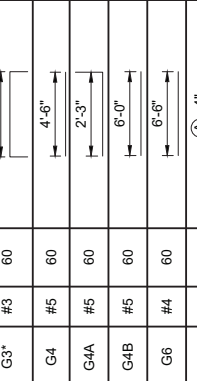


WING WALLS 3 & 4 SECTION
SCALE: 3/8" = 1'-0"

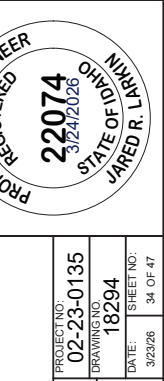
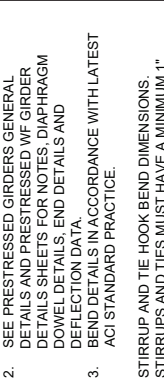
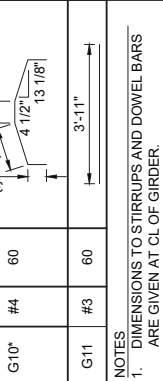
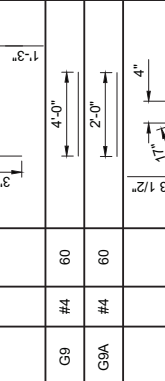
DRAWN: J. SCOTT DESIGNED: J. LARKIN APPROVED: J.R. SHERMAN QA: B. BRADFIELD	SCALES SHOWN ARE FOR 11"x17" PRINTS ONLY	LEADING IDAHO LOCAL BRIDGE PROGRAM			WING WALLS 3 & 4 DETAILS	PROJECT NO.: 02-23-0135
	COUNTY: CAMAS	BRIDGE KEY NUMBER: 23801			200 S ROAD OVER CAMAS CREEK 207' PRESTRESSED CONCRETE BRIDGE	DRAWING NO.: 18294



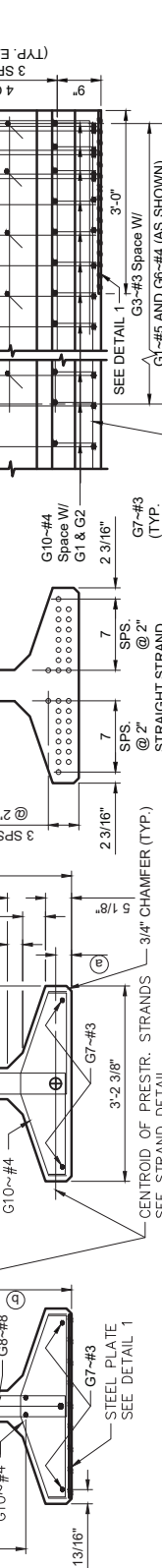
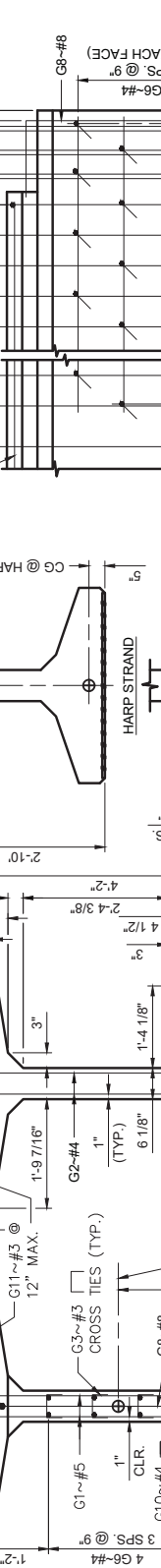
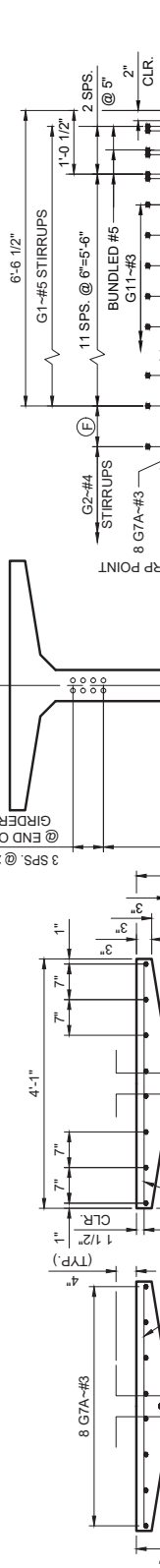
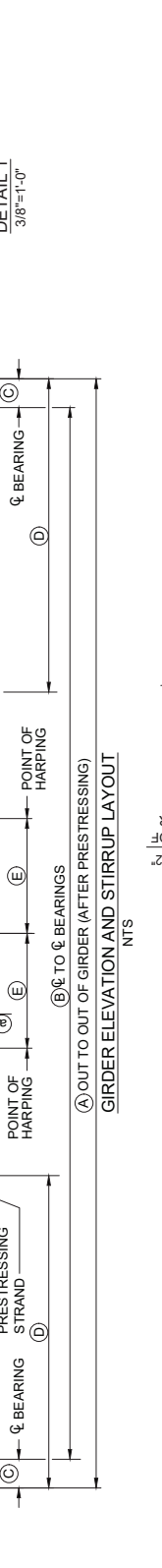
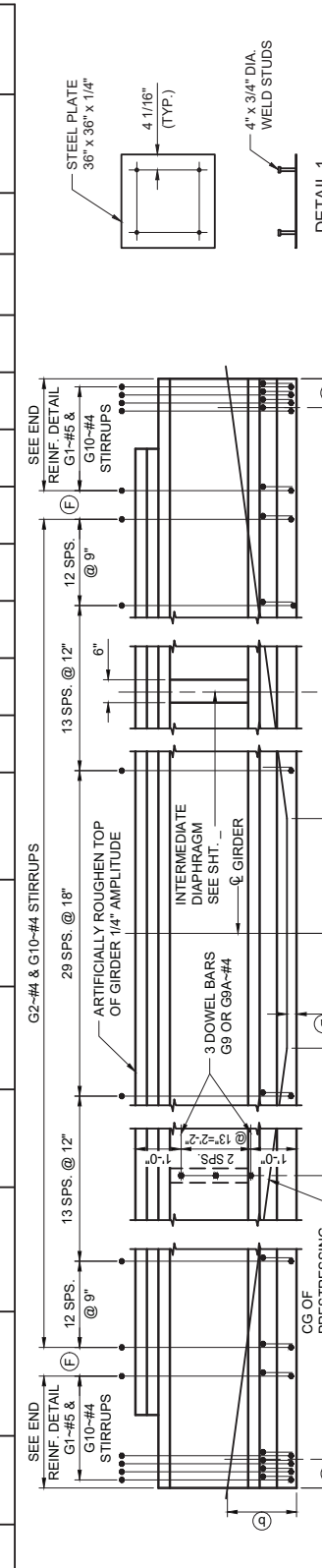
REINFORCEMENT DIAGRAM		
ASHTO M31 GRADE 60 TYPE S		
MARK	SIZE	GRADE
G1*	#5	60
G2*	#4	60
G3*	#3	60
G4	#5	60
G4A	#5	60
G4B	#5	60
G6	#4	60
G7	#3	60
G7A	#3	60
G8	#8	60
G9	#4	60
G9A	#4	60
G10*	#4	60
G11	#3	60



NOTES
 1. DIMENSIONS TO STIRRUPS AND DOWEL BARS ARE GIVEN AT CL OF GIRDER.
 2. SEE PRESTRESSED GIRDERS GENERAL DETAILS AND PRESTRESSED WF GIRDER DETAILS SHEETS 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 ----- 628 LB/FT



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	IMMEDIATE AFTER LOSSES	FINAL TOTAL	AT RELEASE	AT 28 DAYS	f _{ci}	f _c	(A)	(B)	(C)	(D)	(E)	(F)	LEFT	RIGHT	TYPE A	TYPE C	(a)	(b)	MID SPAN	
4	SPAN 1	1757.7	1332.2	20.08	49.02	6.5	8.5	102'-0"	100'-8"	8"	8"	34'-0"	34'-0"	10'-3"	8.5"	8"	8"	10'-3"	10'-3"	10,000"	10,000"	3,600"	3,600"
4	SPAN 2	1757.7	1332.2	20.08	49.02	6.5	8.5	102'-0"	100'-8"	8"	8"	34'-0"	34'-0"	10'-3"	8.5"	8"	8"	10'-3"	10'-3"	10,000"	10,000"	3,600"	3,600"



PROJECT NO. 02-23-0135
 DRAWING NO. 18294
 DATE: 9/23/26
 SHEET NO. 34 OF 47

WF50 PRESTRESSED GIRDER
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE

FORSYTH Associates, Inc.
 LEADING IDAHO LOCAL BRIDGE PROGRAM

Intact2
 2025 PERM

PROFESSIONAL ENGINEER
 REGISTERED
 22074
 3/24/2026
 STATE OF IDAHO
 JARED R. OWARD

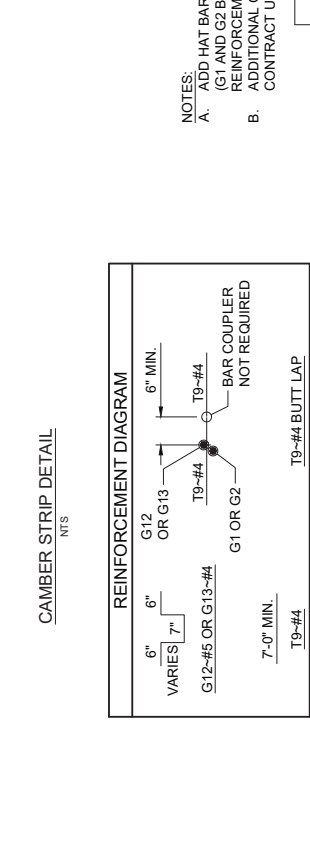
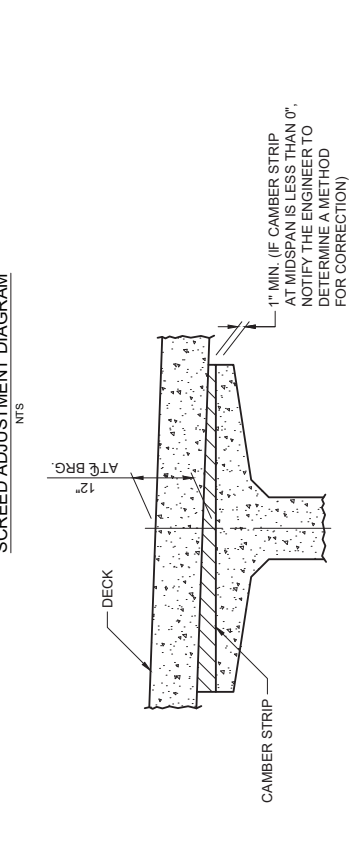
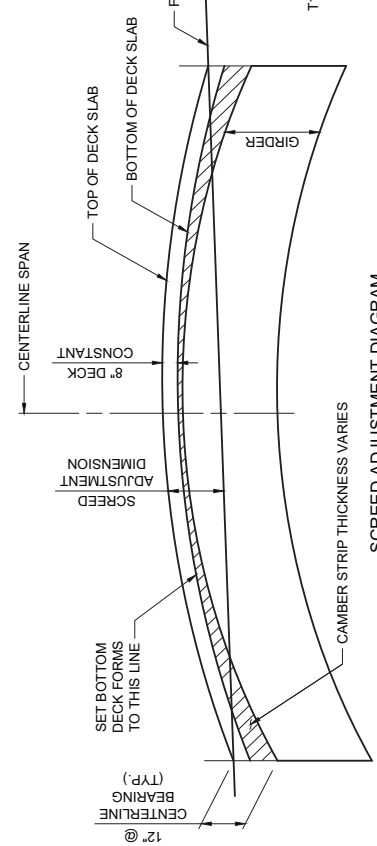
DESIGNED BY: J. SHERMAN
 APPROVED BY: J. SHERMAN
 DRAWN BY: J. SHERMAN
 CHECKED BY: J. SHERMAN
 BRIDGE KEY NUMBER: 23801

SCALE SHOWN: 1/2" = 1'-0"
 AREA FOR 1"x17" PRINTS ONLY: COUNTY: CANVAS

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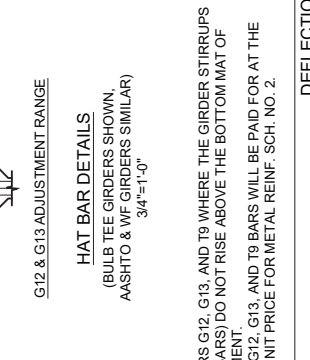
NOTES

- DOWELS**
- PROVIDE DOWELS BY ANY OF THE FOLLOWING METHODS:
 1.1. PROVIDE COIL ROD INSERTS AND THREADED DOWELS, IF THE ULTIMATE STRENGTH OF THE INSERT IS IN ACCORDANCE WITH THE FOLLOWING:
 BAR SIZE #4 #6 #8 #10 #12
 MINIMUM ULTIMATE TENSION CAPACITY (LBS.) 12,000 18,000 26,400 35,000 43,800
 - ON INTERIOR GIRDERS ONLY, 1½" Ø HOLES MAY BE PROVIDED DURING FABRICATION AND DOWELS GROUTED IN PLACE AFTER DELIVERY TO THE JOB SITE.
 - PLACE END DIAPHRAGM DOWELS PARALLEL TO CENTERLINE BEARING.
- SHOP DRAWINGS**
- PROVIDE SHOP DRAWING DETAILS THAT CONFORM TO CURRENT AASHTO SPECIFICATIONS. SHOW DETENSIONING SEQUENCE AND GIRDER LIFT POINTS ON SHOP DRAWINGS.
 - SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 506.03 AND 105.02.
 - LATERALLY RESTRAIN THE GIRDER DURING TRANSPORTATION AND ERECTION. SHOW THE METHOD OF LATERAL RESTRAINT ON THE SHOP DRAWINGS.
 - 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**
- PROVIDE GIRDERS WITH ENDS THAT ARE PLUMB WHEN SET TO GRADE.
 - DIMENSION/JOIN THE PRESTRESSED GIRDER SCHEDULE TABLE IS A HORIZONTAL DIMENSION. CORRECT THE FINISHED GIRDER LENGTH FOR GRADE AND PROVIDE AN ALLOWANCE FOR BEAM SHORTENING.
 - BLOCK OUT TOP FLANGE OF BULB TEE AND WF GIRDERS TO ALLOW PLACEMENT OF CONCRETE FOR THE END DIAPHRAGMS.
 - 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.
 - GIRDER ERECTION/DECK PLACEMENT ASSUMED TO OCCUR WITHIN 60-90 DAYS AFTER GIRDER FABRICATION.
 - FABRICATE IN ACCORDANCE WITH 506.
 - STRAND
 - DESIGN BASED UPON 0.6" DIA. AASHTO M203 LOW RELAXATION STRAND.
 - 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
 - PRESTRESSING CONCRETE MEMBERS IS INCIDENTAL TO THE PRECAST AND PRESTRESSED PAY ITEMS IN 502.



SCREENED ADJUSTMENT DIMENSIONS AT CENTERLINE OF GIRDERS

SPAN (TENTH POINTS)	SCREED ADJUSTMENT DIMENSION - INCHES
0.0	0.1
0.0	0.2
0.0	0.3
0.0	0.4
0.0	0.5
0.0	0.6
0.0	0.7
0.0	0.8
0.0	0.9
0.0	1.0
0.0	1.70
0.0	1.94
0.0	2.02
0.0	1.70
0.0	1.30
0.0	0.73
0.0	0



DEFLECTION DATA - INCHES

LOCATION	AP PRESTRESS GIRDER	AG GIRDER	ΣΔ * ΔP + ΔG	ΔI **	ΔJ **	NON COMP. DL	ΔC COMP. DL	ΔZ AS + AC
SPANS 182	4.33	1.38	2.95	1.65	1.65	ΔG	0.78	2.02
			4.44	1.42				

NOTES:

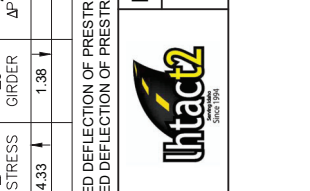
- ADD HAT BARS G12, G13, AND T9 WHERE THE GIRDER STIRRUPS (G1 AND G2 BARS) DO NOT RISE ABOVE THE BOTTOM MAT OF REINFORCEMENT.
- ADDITIONAL G12, G13, AND T9 BARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR METAL REINF. SCH. NO. 2.

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

PROFESSIONAL ENGINEER
 REGISTERED
 22074
 3/24/2026
 OHIO
 STATE OF
 JARED R.

PROJECT NO. 02-23-0135
 DRAWING NO. 18294
 DATE: 9/23/26
 SHEET NO. 35 OF 47

PRESTRESSED GIRDER GENERAL DETAILS
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE



FORSYREN Associates Inc.

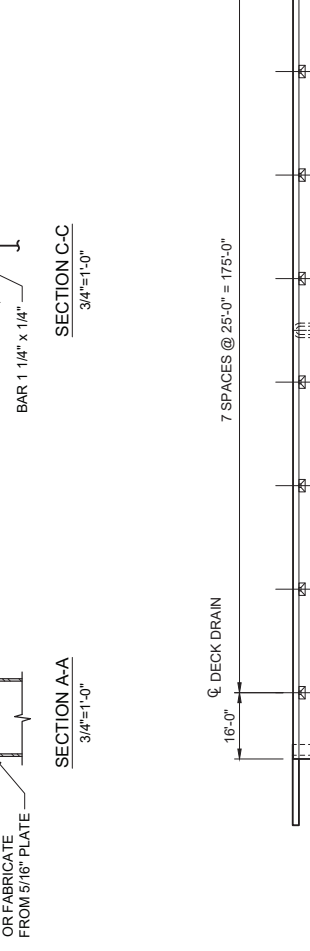
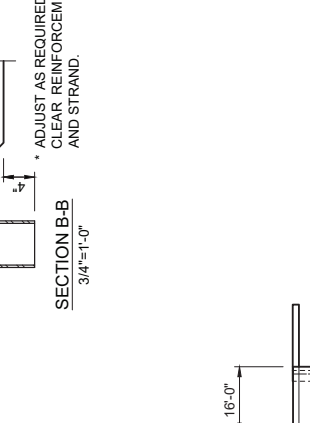
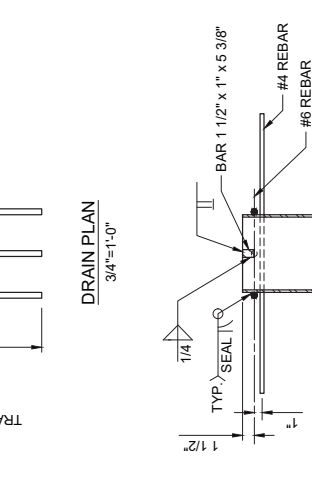
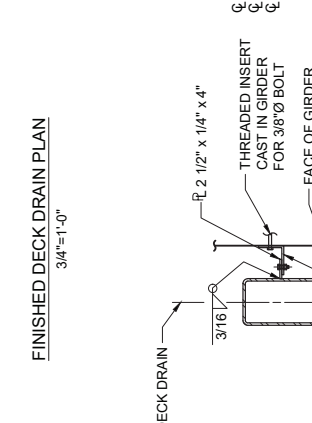
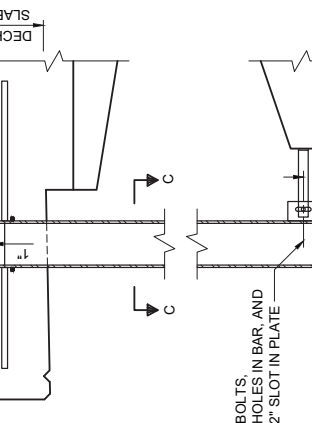
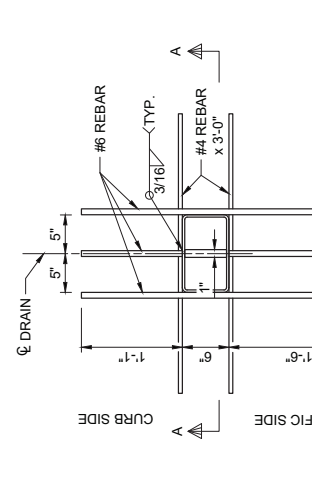
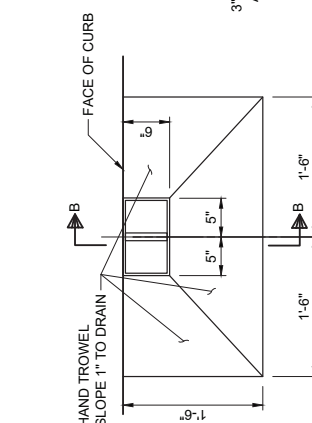
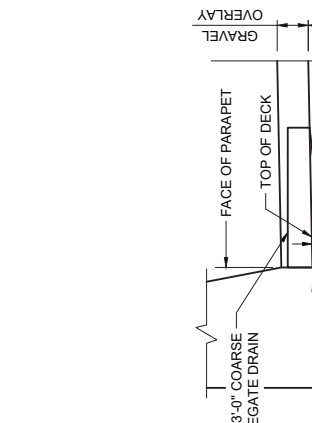
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN ARE FOR 1"X17' PRINTS ONLY

DRAWN	J. GHAN
DESIGNED	B. PROTHINGS
CHECKED	J. SHERMAN
APPROVED	J.R. SHERMAN
COUNTY	CLATSOP
BRIDGE KEY NUMBER	23801
DATE	09/23/26

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- DRAIN NOTES**
- HOT DIP GALVANIZE DRAIN ASSEMBLY AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
 - SEAL WELD SEAMS NOT SHOWN WELDED.
 - GRIND SMOOTH SEAMS ON TOP OF THE DRAIN.
 - FIELD BEND OR CUT ANY BARS THAT CONFLICT WITH DRAINS.
 - PROVIDE STRUCTURAL STEEL IN ACCORDANCE WITH ASTM A709 GRADE 36.
 - PROVIDE STRUCTURAL STEEL TUBING IN ACCORDANCE WITH ASTM A500 OR A501.
 - PROVIDING AND INSTALLING THE DRAIN ASSEMBLIES IS INCIDENTAL TO PAY ITEM 602.310A.
 - PAYMENT FOR COARSE AGGREGATE DECK DRAIN IS PAY ITEM S601.20A.
 - PROVIDE ONE COARSE AGGREGATE DRAIN AT EACH DECK DRAIN.
 - PLACE COARSE AGGREGATE DRAIN SUCH THAT THE LONGITUDINAL CENTERLINES OF THE COARSE AGGREGATE DRAIN AND DECK DRAIN ALIGN.



PROJECT NO. 02-23-0135
DRAWING NO. 18294
DATE: 9/23/26
SHEET NO. 39 OF 47

FORSGREN Associates, Inc.
LEADING IDAHO LOCAL BRIDGE PROGRAM

Untact2
SINCE 1994

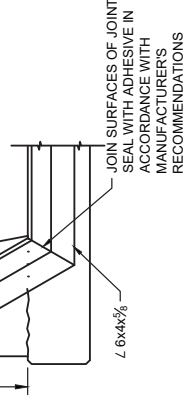
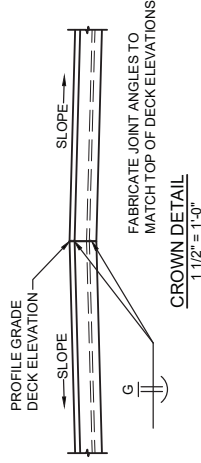
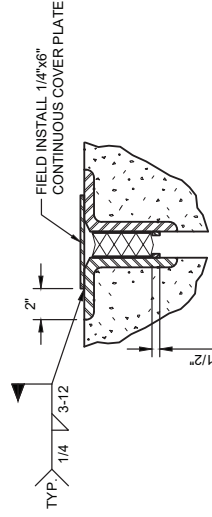
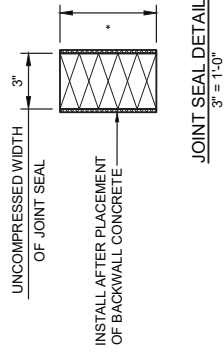
DECK DRAIN DETAILS
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

PROFESSIONAL ENGINEER
REGISTERED
22074
3/24/2026
OHARD
STATE OF
JARED R.

DRAWN	T. GHAN	SCALES SHOWN	ARE FOR 11"x17" PRINTS ONLY
DESIGNED	B. PHOTOHOS	COUNTY	COMALS
APPROVED	J.R. SHERMAN	BRIDGE KEY NUMBER	22801
DATE		B. BRIDGE/BLD	

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- NOTES:**
1. PROVIDE STRUCTURAL STEEL IN ACCORDANCE WITH ASTM A709 GRADE 36, AND GALVANIZE IN ACCORDANCE WITH ASTM A123.
 2. INSTALL THE TOP OF THE JOINT ANGLE PARALLEL TO THE PROFILE GRADE.
 3. PROVIDE JOINT ANGLES WITH A MINIMUM THICKNESS OF 3/8".
 4. PROVIDE SUITABLE SUPPORT DURING DECK POUR AND INCLUDE SUPPORT SYSTEM DETAILS ON SHOP PLANS.
 5. DIMENSIONS MARKED * ARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 6. ADJUST THE EXPANSION JOINT 0.07" FOR EVERY 10°F CHANGE IN TEMPERATURE FROM THE MEDIAN TEMPERATURE OF 60°F AT THE TIME OF INSTALLATION OF THE JOINT.
 7. PROVIDE CONTINUOUS JOINT SEAL.
 8. DO NOT LOCATE THE FIELD SPLICE IN THE WHEEL PATH, AND SHOW THE LOCATION ON THE SHOP DRAWINGS.
 9. INSTALL THE SEAL AS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS USING AN ADHESIVE LUBRICANT. PROVIDE ADHESIVE LUBRICANT IN ACCORDANCE WITH ASTM D4070.
 10. PROVIDE PREFORMED EXPANSION JOINT SEAL IN ACCORDANCE WITH AASHTO M297.
 11. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 105.02.
 12. FABRICATE THE COMPLETED JOINT ASSEMBLY, INCLUDING COMPONENTS AND SUBASSEMBLIES, BY ONE MANUFACTURER.

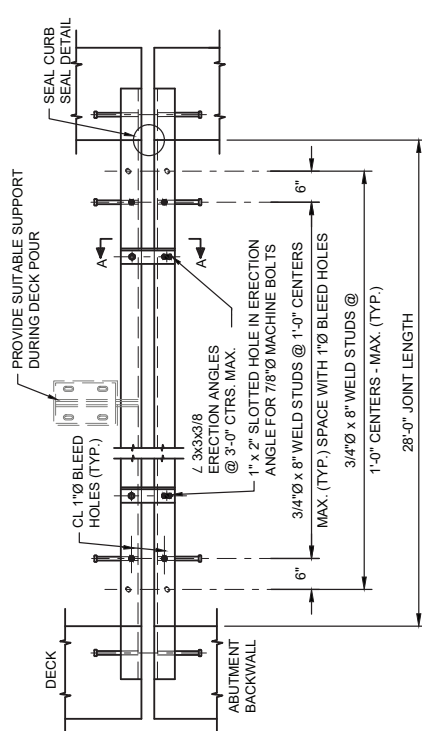


APPROXIMATE STEEL WEIGHT 50 LB/FT.

RECOMMENDED MANUFACTURERS OF THE SHOWN JOINT ASSEMBLY **

LOCATION	MANUFACTURER	STYLE	NOMINAL SEAL SIZE INCHES	WIDTH	HEIGHT
ABUT. 1 & 2	WATSON BOWMAN ACME	WA-300	3.00	3.00	3.00
ABUT. 1 & 2	D. S. BROWN	CV-3000	3.00	3.00	3.25
ABUT. 1 & 2	LYMAL INTERNATIONAL	C30	3.00	3.00	2.375

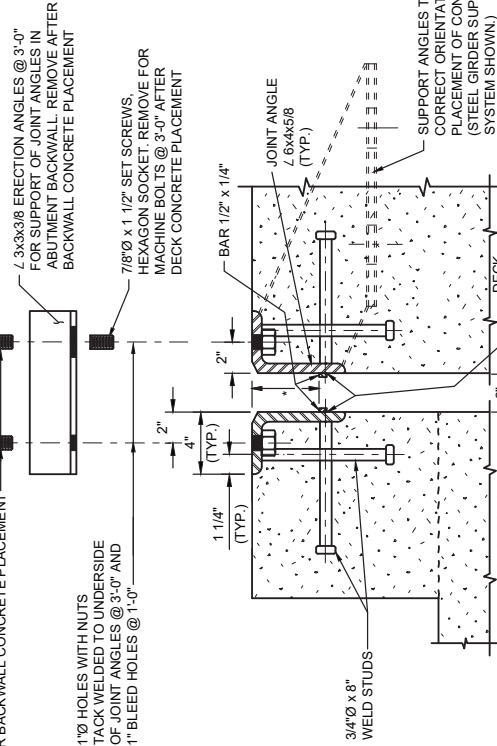
** OR APPROVED EQUAL



PLAN
1 1/2" = 1'-0"

7/8"Ø x 1 3/4" MACHINE BOLTS FOR SUPPORT OF ERECTION ANGLES @ 3'-0" BOLTS AND ANGLES TO BE PLACED AFTER DECK CONCRETE PLACEMENT. REMOVE IMMEDIATELY AFTER BACKWALL CONCRETE PLACEMENT.

1"Ø HOLES WITH NUTS TACK WELDED TO UNDERSIDE OF JOINT ANGLES @ 3'-0" AND 1" BLED HOLES @ 1'-0"



SECTION A-A
1 1/2" = 1'-0"

SUPPORT ANGLES TO MAINTAIN CORRECT ORIENTATION DURING PLACEMENT OF CONCRETE. (STEEL GIRDER SUPPORT SYSTEM SHOWN)

PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 3/23/26
SHEET NO.: 40 OF 47

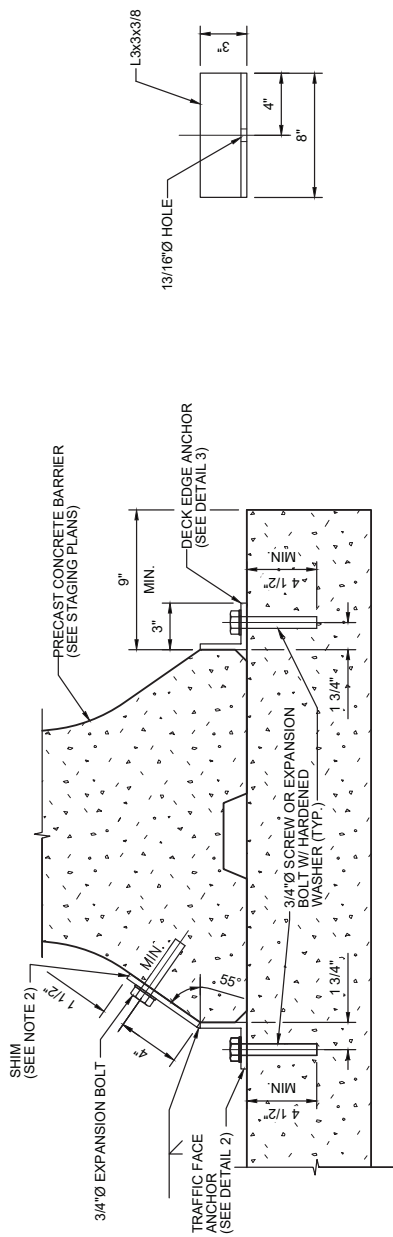
COMPRESSION SEAL EXPANSION JOINT
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



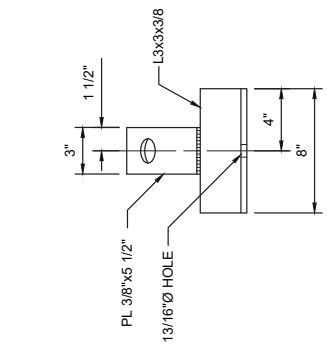
FORSYTH Associates, Inc.
LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN ARE FOR 11x17 PRINTS ONLY
DRAWN: J. GHAN
DESIGNED: B. PHOTONS
COUNTY: GARLAND
APPROVED: J.R. SHERMAN
BRIDGE KEY NUMBER: 23801
DATE: 3/23/26
BY: J. GHAN
CHECKED: B. BROADBENT



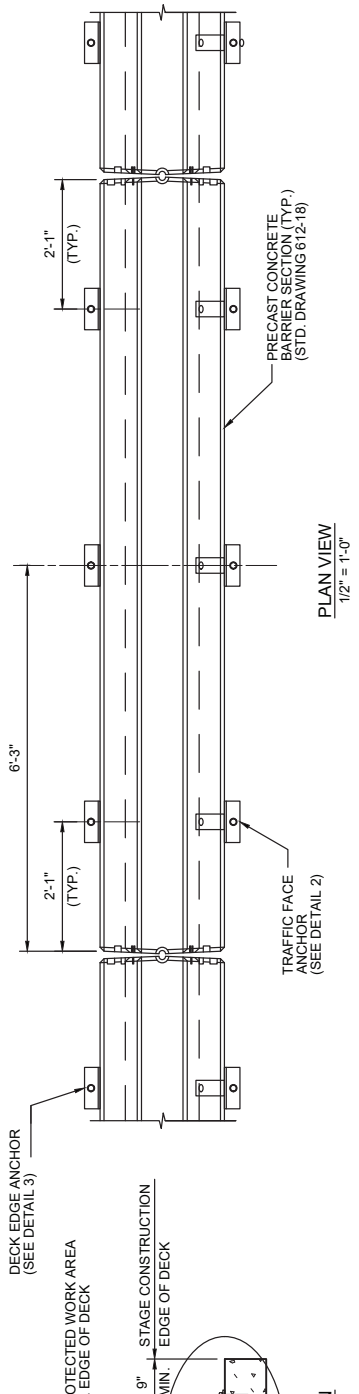


DETAIL 1
1 1/2" = 1'-0"

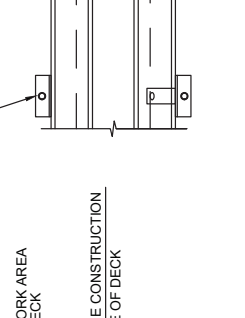


DETAIL 2
1 1/2" = 1'-0"

NOTES:
 1. ADJUST THE LOCATION OF THE ANCHORS TO AVOID THE DECK REINFORCEMENT AND GIRDER STIRRUPS WHEN DRILLING HOLES.
 2. SHIM ANCHOR PLATES FLUSH WITH BARRIER AND DECK SURFACES PRIOR TO INSTALLING BOLTS.
 3. AFTER BARRIER REMOVAL, CLEAN AND FILL DECK HOLES WITH GROUT IN ACCORDANCE WITH 705.02.



PLAN VIEW
1/2" = 1'-0"



TYPICAL SECTION
1/2" = 1'-0"



PROJECT NO: 02-23-0135
 DRAWING NO: 18294
 DATE: 3/23/26
 SHEET NO: 41 OF 47

TEMPORARY BARRIER DETAILS
 200 S ROAD OVER CAMAS CREEK
 207' PRESTRESSED CONCRETE BRIDGE



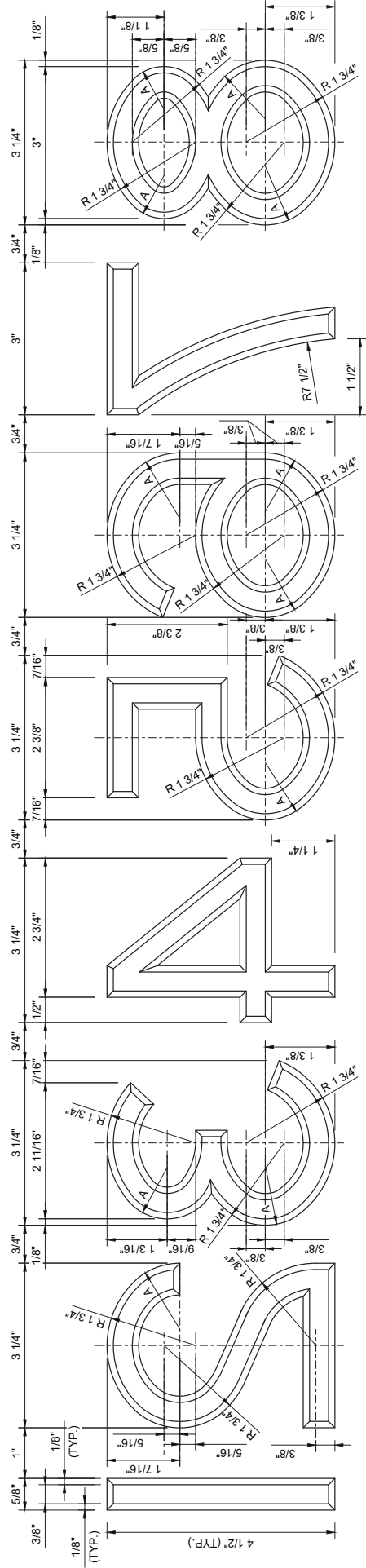
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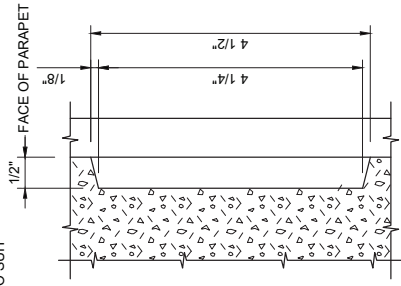
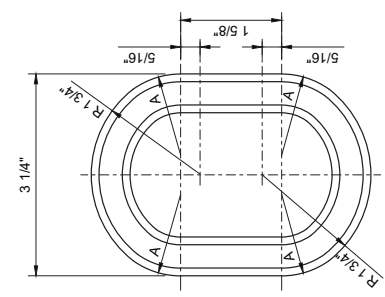
SCALES SHOWN ARE FOR 11"x17" PRINTS ONLY
 COUNTY: CAMAS
 BRIDGE KEY NUMBER: 23801

DRAWN: J. GHAN
 DESIGNED: B. PHOTOGRAPH
 APPROVED: J.R. SHERMAN
 BY DATE: B. BRADFIELD

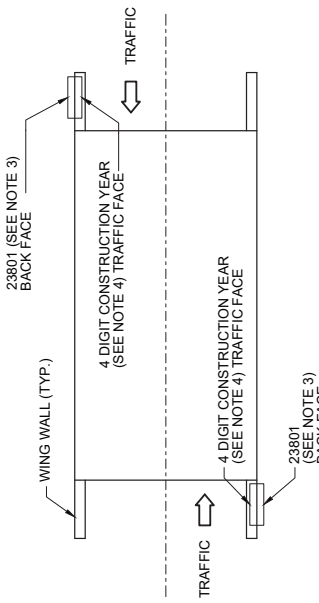
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A = RADIUS TO SUIT



THE NUMBER '9' IS NOT SHOWN, BUT IS SIMILAR TO NUMBER '6'.



END VIEW OF NUMERALS
SHOWING ATTACHMENT TO FORMS
NTS

DATE PANEL LOCATION - BRIDGE
NTS
(SEE PARAPET SHEET FOR DETAILS)

- GENERAL NOTES - BRIDGE**
1. RECESS NUMBERS INTO THE DATE PANEL
 2. DATE PANEL IS INCIDENTAL TO THE PARAPET PAY ITEM
 3. PLACE THE 5 DIGIT BRIDGE KEY NUMBER ON BACK FACE
 4. PLACE THE 4 DIGIT YEAR CONSTRUCTION COMPLETED ON TRAFFIC FACE
 5. FIELD ADJUST LOCATION OF DATE PANEL ON BACK OF PARAPETS WITH PROTECTIVE FENCE.



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 9/23/26
SHEET NO.: 43 OF 47

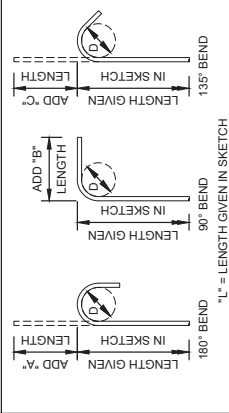
DATE PANEL
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



LEADING IDAHO
LOCAL BRIDGE
PROGRAM

SCALE SHOWN	ARE FOR 11'x17'	DESIGNED	J. LARKIN	COUNTY	CANAWAS	BRIDGE KEY NUMBER	23801
PRINTS ONLY		APPROVED	J.R. SHERMAN				
		BY DATE	GA	B. BRADSHAW			

BEND DETAILS



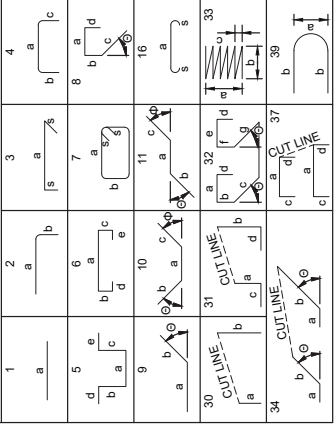
STANDARD END HOOK DIMENSIONS		STIRRUP AND TIE HOOK DIMENSIONS	
ALL GRADES		ALL GRADES	
BAR SIZE	ALL GRADES	D	B
#3	2 1/2"	5"	4"
#4	3"	6"	4 1/2"
#5	3 3/4"	7"	5"
#6	4 1/4"	8"	5 1/2"
#7	5 1/4"	10"	6 1/2"
#8	6"	11"	7 1/2"
#9	6 3/4"	13"	8 1/2"
#10	7 1/4"	15"	10"
#11	8 1/4"	17"	11 1/2"
#14	10 1/4"	21"	14 1/2"
#18	13 1/4"	27"	18 1/2"

- 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 CENTER OF BARS UNLESS NOTED OTHERWISE. DIMETER "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 GLASS FIBER REINFORCED POLYMER COATED BARS DESIGNATED "G" IN THE "COAT" COLUMN.
C. PROVIDE BARS TYPE S OR Y 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.



PROJECT NO.: 02-23-0135
 DRAWING NO.: 18294
 DATE: 9/23/26
 SHEET NO.: 44 OF 47

BAR BEND DIAGRAMS



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

SUBSTRUCTURE BAR WEIGHT		
BAR SIZE	LINEAR FEET	POUNDS PER FOOT
#3	0.376	0.376
#4	1290' - 6"	0.668
#5	14001' - 5"	1.043
#6	10443' - 4"	1.502
#7	2024' - 2"	2.044
#8	1101' - 4"	2.670
#9	528' - 0"	3.400
#10	4.303	4.303
#11	5.313	5.313
#14	7.650	7.650
#18	13.600	13.600
TOTAL WEIGHT		40024

EPOXY COATED BAR WEIGHT		
BAR SIZE	LINEAR FEET	POUNDS PER FOOT
#3	0.376	0.376
#4	1290' - 6"	0.668
#5	1506' - 0"	1.043
#6	1502	1.502
#7	2044	2.044
#8	2670	2.670
#9	3400	3.400
#10	4303	4.303
#11	5313	5.313
TOTAL WEIGHT		1571

SUBSTRUCTURE

MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE θ	ANGLE φ	TOTAL LENGTH
AF1A	ABUT. FOOTING	#6		26	4		11' - 2"	1' - 3"	1' - 3"					355' - 4"
AF1B	ABUT. FOOTING	#6		50	4		22' - 8"	1' - 3"	1' - 3"					1258' - 4"
AF2A	ABUT. FOOTING	#6		46	4		12' - 2"	1' - 3"	1' - 3"					674' - 8"
AF2B	ABUT. FOOTING	#6		23	2		20' - 8"	1' - 3"						504' - 1"
AF2C	ABUT. FOOTING	#6		23	2		18' - 8"	1' - 3"						458' - 1"
AF3A	ABUT. FOOTING	#5		26	4		11' - 2"	1' - 3"	1' - 3"					355' - 4"
AF3B	ABUT. FOOTING	#5		50	4		22' - 8"	1' - 3"	1' - 3"					1258' - 4"
AF4A	ABUT. FOOTING	#7		46	4		12' - 2"	1' - 3"	1' - 3"					674' - 8"
AF4B	ABUT. FOOTING	#7		23	2		20' - 8"	1' - 3"						504' - 1"
AF4C	ABUT. FOOTING	#7		23	2		18' - 8"	1' - 3"						458' - 1"
AF5A	ABUT. FOOTING	#5		40	4		8' - 2"	1' - 3"	1' - 3"					426' - 8"
AF5B	ABUT. FOOTING	#5		32	4		20' - 8"	1' - 3"	1' - 3"					741' - 4"
AF6A	ABUT. FOOTING	#5		50	4		7' - 8"	1' - 3"	1' - 3"					508' - 4"
AF6B	ABUT. FOOTING	#5		17	2		19' - 8"	1' - 3"						355' - 7"
AF6C	ABUT. FOOTING	#5		17	2		17' - 8"	1' - 3"						321' - 7"
AF7A	ABUT. FOOTING	#5		20	4		8' - 2"	1' - 3"	1' - 3"					213' - 4"
AF7B	ABUT. FOOTING	#5		16	4		20' - 8"	1' - 3"	1' - 3"					370' - 8"
AF8A	ABUT. FOOTING	#5		50	4		7' - 8"	1' - 3"	1' - 3"					508' - 4"
AF8B	ABUT. FOOTING	#5		17	2		19' - 8"	1' - 3"						355' - 7"
AF8C	ABUT. FOOTING	#5		17	2		17' - 8"	1' - 3"						321' - 7"
PF1	PIER FOOTING	#6		74	4		9' - 8"	2' - 0"	2' - 0"					1011' - 4"
PF2A	PIER FOOTING	#6		9	2		20' - 9"	2' - 0"						204' - 9"
PF2B	PIER FOOTING	#6		9	2		18' - 4"	2' - 0"						183' - 0"
PF3A	PIER FOOTING	#6		8	1		20' - 9"							166' - 0"
PF3B	PIER FOOTING	#6		8	1		18' - 4"							146' - 8"
PF3C	PIER FOOTING	#6		8	1		9' - 8"							77' - 4"
PF4A	PIER FOOTING	#6		9	2		20' - 9"	2' - 0"						204' - 9"
PF4B	PIER FOOTING	#6		9	2		18' - 4"	2' - 0"						183' - 0"
PF5	PIER FOOTING	#6		38	4		9' - 8"	2' - 0"	2' - 0"					519' - 4"
PF6	PIER FOOTING	#4		128	3		2' - 10"							458' - 8"



LEADING IDAHO LOCAL BRIDGE PROGRAM

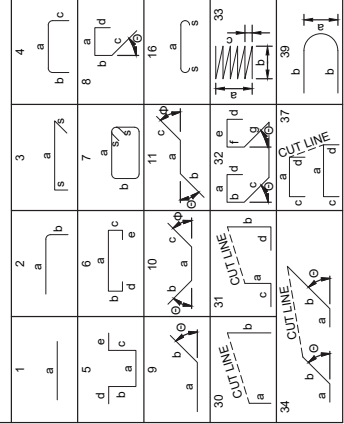
SCALES SHOWN ARE FOR 1"X17' PRINTS ONLY
 COUNTY: CAMAS
 BRIDGE KEY NUMBER: 23801

DRAWN: J. SCOTT
 DESIGNED: J. JARVIN
 APPROVED: J. SHERMAN
 DATE: 9/23/26

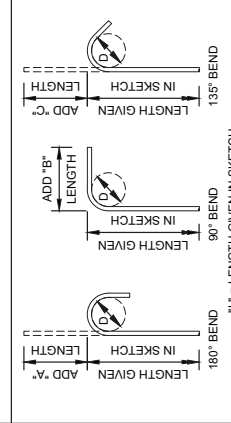
SUBSTRUCTURE

MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	BAR SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE θ	ANGLE φ	TOTAL LENGTH
A1	ABUTMENT 1	#7		56	2		5'-9"	1'-2"						387'-4"
A2	ABUTMENT 1	#6		32	2		5'-9"	1'-2"						221'-4"
A3	ABUTMENT 1	#6		56	1		11'-0"							616'-0"
A4	ABUTMENT 1	#6		32	1		11'-0"							352'-0"
ASA	ABUTMENT 1	#6		26	1		17'-6"							455'-0"
ASB	ABUTMENT 1	#6		26	1		15'-2"							394'-4"
AGA	ABUTMENT 1	#6		4	1		17'-6"							70'-0"
A6B	ABUTMENT 1	#6		4	1		15'-2"							60'-8"
A7	ABUTMENT 1	#6		28	4		3'-2"	1'-0"	1'-0"					144'-8"
* A8	ABUTMENTS	#4		126	3		3'-2"							493'-6"
A9	ABUTMENT 2	#5		56	2		8'-5"	0'-10"						518'-0"
A10	ABUTMENT 2	#5		32	2		8'-5"	0'-10"						296'-0"
A11A	ABUTMENT 2	#5		12	1		17'-6"							210'-0"
A11B	ABUTMENT 2	#5		12	1		15'-2"							182'-2"
A12A	ABUTMENT 2	#5		4	1		17'-6"							70'-0"
A12B	ABUTMENT 2	#5		4	1		15'-2"							60'-8"
A13	ABUTMENT 2	#5		28	4		3'-2"	1'-0"	1'-0"					144'-8"
BW1	ABUT. BACKWALL	#5	E	112	1		6'-10"							765'-4"
BW2	ABUT. BACKWALL	#5	E	64	1		6'-10"							437'-4"
BW3A	ABUT. BACKWALL	#5		20	1		17'-6"							350'-0"
BW3B	ABUT. BACKWALL	#5		20	1		15'-2"							303'-4"
BW4A	ABUT. BACKWALL	#5	E	4	1		17'-6"							70'-0"
BW4B	ABUT. BACKWALL	#5	E	4	1		15'-2"							60'-8"
BW5	ABUT. BACKWALL	#5	E	56	4		0'-7"	1'-3"	1'-3"					172'-8"

BAR BEND DIAGRAMS



BEND DETAILS



BAR SIZE	STANDARD END HOOK DIMENSIONS			STIRRUP AND TIE HOOK DIMENSIONS		
	D	A	B	D	B	C
#3	2 1/2"	5"	6"	1 1/2"	4"	4"
#4	3"	6"	8"	2"	4 1/2"	4 1/2"
#5	3 3/4"	7"	10"	2 1/2"	6"	5 1/2"
#6	4 1/4"	8"	11 1/2"	3"	7 1/2"	6 1/2"
#7	5 1/4"	10"	13 1/2"	3 1/2"	8 1/2"	7 1/2"
#8	6"	11"	14 1/2"	4"	9 1/2"	8 1/2"
#9	6 3/4"	11 3/4"	15 1/2"	4 1/2"	10 1/2"	9 1/2"
#10	7 1/4"	12 1/2"	16 1/2"	5"	11 1/2"	10 1/2"
#11	8 1/4"	13 1/2"	17 1/2"	5 1/2"	12 1/2"	11 1/2"
#12	9 1/4"	14 1/2"	18 1/2"	6"	13 1/2"	12 1/2"
#13	10 1/4"	15 1/2"	19 1/2"	6 1/2"	14 1/2"	13 1/2"
#14	11 1/4"	16 1/2"	20 1/2"	7"	15 1/2"	14 1/2"
#15	12 1/4"	17 1/2"	21 1/2"	7 1/2"	16 1/2"	15 1/2"
#16	13 1/4"	18 1/2"	22 1/2"	8"	17 1/2"	16 1/2"
#17	14 1/4"	19 1/2"	23 1/2"	8 1/2"	18 1/2"	17 1/2"
#18	15 1/4"	20 1/2"	24 1/2"	9"	19 1/2"	18 1/2"

REINFORCEMENT NOTES:

1. PROVIDE BEND DETAILS IN ACCORDANCE WITH THE LATEST ACI STANDARD PRACTICE AND ASHTO SPECIFICATIONS.
2. DIMENSIONS SHOWN IN THE "BAR BEND DIAGRAMS" ARE OUT TO CENTER POINTS; HOOKS, OR BAR ENDS UNLESS NOTED OTHERWISE, ARE TO CENTER. 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 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 GLASS FIBER REINFORCED POLYMER COATED BARS DESIGNATED "GFRP" IN THE "COAT" COLUMN.
C. PROVIDE BARS 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.



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 9/23/26
SHEET NO.: 45 OF 47

METAL REINFORCEMENT (2 OF 4)
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

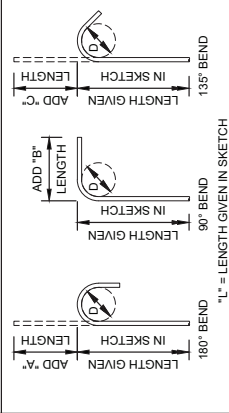


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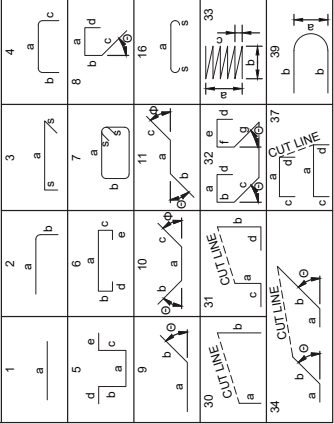
SCALES SHOWN ARE FOR 1"X17' PRINTS ONLY
COUNTY: CAMAS
BRIDGE KEY NUMBER: 23801

DRAWN: J. SHERMAN
DESIGNED: J. SHERMAN
APPROVED: J. SHERMAN
BY: DATE
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BEND DETAILS



BAR BEND DIAGRAMS



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

SUBSTRUCTURE

MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	BAR SET	LENGTH a	LENGTH b	LENGTH c	LENGTH d	LENGTH e	ANGLE θ	ANGLE φ	TOTAL LENGTH
W1	WINGWALLS	#9		64	2	6'-8"	1'-7"							528'-0"
W2	WINGWALLS	#5		38	2	6'-8"	0'-10"							285'-0"
W3	WINGWALLS	#6		64	1	15'-8"								1002'-8"
W4A	WINGWALLS	#5		34	1	15'-8"								532'-8"
W4B	WINGWALLS	#5		4	1	10'-5"								41'-8"
W5A	WINGWALLS	#5		52	1	19'-2"								996'-8"
W5B	WINGWALLS	#5		24	1	16'-7"								398'-0"
W6	WINGWALLS	#5		60	2	13'-6"	0'-10"							860'-0"
W7A	WINGWALLS	#5		32	2	13'-6"	0'-10"							458'-8"
W7B	WINGWALLS	#5		4	2	13'-6"	0'-10"							57'-4"
W8A	WINGWALLS	#5		28	1	18'-2"								508'-8"
W8B	WINGWALLS	#5		24	1	15'-7"								374'-0"
P1	PIER	#8		118	2	8'-0"	1'-4"							1101'-4"
P2	PIER	#6		118	1	10'-0"								1180'-0"
P3A	PIER	#5		20	1	15'-11"								318'-4"
P3B	PIER	#5		20	1	13'-6"								270'-0"
P4	PIER	#4		140	3	1'-8"								338'-4"
P5	PIER	#5		20	39	1'-6"	1'-9"							117'-2"
P6	PIER	#5		28	7	3'-2"	3'-2"							380'-4"
P7A	PIER	#5		5	1	15'-11"								79'-7"
P7B	PIER	#5		5	1	13'-6"								67'-6"
P8A	PIER	#5		4	1	15'-11"								63'-8"
P8B	PIER	#5		4	1	13'-6"								54'-0"
P9A	PIER	#5		5	1	15'-11"								79'-7"
P9B	PIER	#5		5	1	13'-6"								67'-6"
P10	PIER	#5		8	39	3'-0"	1'-9"							65'-9"
P11	PIER	#5		6	4	3'-0"	3'-0"							54'-0"

BAR SIZE	STANDARD END HOOK DIMENSIONS			STIRRUP AND TIE HOOK DIMENSIONS		
	D	A	B	D	B	C
#3	2 1/2"	5"	6"	1 1/2"	4"	4"
#4	3"	6"	8"	2"	4 1/2"	4 1/2"
#5	3 1/2"	7"	10"	2 1/2"	6"	5 1/2"
#6	4 1/4"	8"	11 1/2"	3 1/4"	7 1/2"	6 1/2"
#7	5 1/4"	10"	13 1/2"	4 1/4"	9"	8"
#8	6"	11"	15 1/2"	5 1/4"	10 1/2"	9 1/2"
#9	6 3/4"	11 3/4"	17"	6"	11 1/4"	10 1/4"
#10	7 1/2"	13 1/2"	19 1/2"	7 1/4"	13 1/4"	12 1/4"
#11	8 1/2"	15 1/2"	21 1/2"	8 1/4"	15 1/4"	14 1/4"
#12	9 1/2"	17 1/2"	23 1/2"	9 1/4"	17 1/4"	16 1/4"
#13	10 1/2"	19 1/2"	25 1/2"	10 1/4"	19 1/4"	18 1/4"
#14	11 1/2"	21 1/2"	27 1/2"	11 1/4"	21 1/4"	20 1/4"
#15	12 1/2"	23 1/2"	29 1/2"	12 1/4"	23 1/4"	22 1/4"
#16	13 1/2"	25 1/2"	31 1/2"	13 1/4"	25 1/4"	24 1/4"
#17	14 1/2"	27 1/2"	33 1/2"	14 1/4"	27 1/4"	26 1/4"
#18	15 1/2"	29 1/2"	35 1/2"	15 1/4"	29 1/4"	28 1/4"

- 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 OUTER BEND POINTS; HOOKS, OR BAR ENDS UNLESS NOTED OTHERWISE, ARE TO THE CENTER OF THE BAR. 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 GLASS FIBER REINFORCED POLYMER COATED BARS DESIGNATED "G" IN THE "COAT" COLUMN.
C. PROVIDE BARYTE 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.



PROJECT NO.: 02-23-0135
DRAWING NO.: 18294
DATE: 9/23/26
SHEET NO.: 46 OF 47

METAL REINFORCEMENT (3 OF 4)
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE



LEADING IDAHO LOCAL BRIDGE PROGRAM

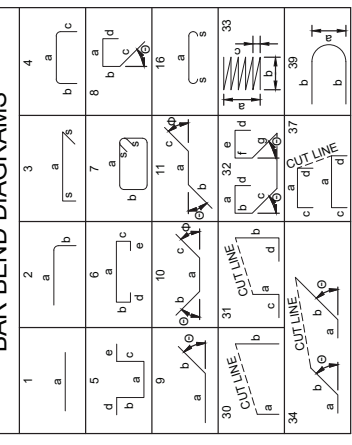
SCALES SHOWN ARE FOR 1"X7' PRINTS ONLY
COUNTY: CAMAS
BRIDGE KEY NUMBER: 23801

DRAWN: J. SHERMAN
DESIGNED: J. SHERMAN
APPROVED: J. SHERMAN
DATE: 9/23/26
BY: J. SHERMAN
DATE: 9/23/26
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SUPERSTRUCTURE

MARK	LOCATION	BAR SIZE	COAT	NO. OF BARS	BAR TYPE	SET	a	b	c	d	e	ANGLE θ	ANGLE φ	TOTAL LENGTH
S1A	DECK - PHASE 1	#5		206	1		17'-1"							3519' - 2"
S1B	DECK - PHASE 2	#5		206	1		15'-2"							3124' - 4"
S2A	DECK - PHASE 1	#5	E	206	16		16'-11"							3725' - 2"
S2B	DECK - PHASE 2	#5	E	206	16		15'-0"							3330' - 4"
S3	DECK	#6	E	820	2		7'-6"	1'-0"						6970' - 0"
T1A	DECK	#5		96	1		60'-0"							5760' - 0"
T1B	DECK	#5		32	1		29'-9"							952' - 0"
T2A	DECK	#5	E	96	1		60'-0"							5760' - 0"
T2B	DECK	#5	E	32	1		29'-9"							952' - 0"
T3	DECK	#6	E	30	1		37'-6"							1125' - 0"
D1A	INT. DIAPHRAGM	#4		24	1		5'-6"							132' - 0"
D1B	INT. DIAPHRAGM	#4		24	1		7'-0"							168' - 0"
D2	INT. DIAPHRAGM	#4		72	1		3'-0"							216' - 0"
ED1A	END DIAPHRAGM	#5		36	1		7'-0"							252' - 0"
ED1B	END DIAPHRAGM	#5		8	1		11'-6"							92' - 0"
ED1C	END DIAPHRAGM	#5		22	1		5'-3"							115' - 6"
ED1D	END DIAPHRAGM	#5		8	1		3'-4"							26' - 8"
* ED2	END DIAPHRAGM	#5		44	5		1'-0"	3'-6"	3'-6"	0'-10"	0'-0"			388' - 8"
ED3	END DIAPHRAGM	#5	E	44	2		2'-0"	2'-0"						176' - 0"
PD1	PIER DIAPHRAGM	#4		30	1		4'-6"							135' - 0"
* PD2	PIER DIAPHRAGM	#5	E	18	5		2'-9"	4'-9"	4'-9"	0'-10"	0'-10"			250' - 6"
PD3	PIER DIAPHRAGM	#6		18	1		3'-0"							54' - 0"

BAR BEND DIAGRAMS



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

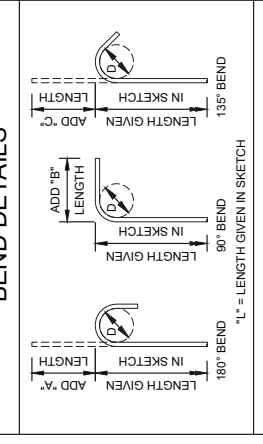
SUPERSTRUCTURE BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#3		0.376	
#4	651' - 0"	0.668	435
#5	14230' - 5"	1.043	14842
#6	54' - 0"	1.502	81
#7		2.044	
#8		2.670	
#9		3.400	
#10		4.303	
#11		5.313	
#14		7.650	
#18		13.600	
TOTAL WEIGHT			15358

EPOXY COATED BAR WEIGHT

BAR SIZE	LINEAR FEET	POUNDS PER FOOT	TOTAL WEIGHT
#3		0.376	
#4		0.668	
#5	14194' - 0"	1.043	14804
#6	8095' - 0"	1.502	12159
#7		2.044	
#8		2.670	
#9		3.400	
#10		4.303	
#11		5.313	
TOTAL WEIGHT			26963

BEND DETAILS



BAR SIZE	STANDARD END HOOK DIMENSIONS ALL GRADES			STIRRUP AND TIE HOOK DIMENSIONS ALL GRADES		
	D	A	B	D	B	C
#3	2 1/2"	5"	6"	1 1/2"	4"	4"
#4	3"	6"	8"	2"	4 1/2"	4 1/2"
#5	3 3/4"	7"	10"	2 1/2"	6"	5 1/2"
#6	4 1/4"	8"	11 1/2"	3"	7"	6"
#7	5 1/4"	10"	13 1/2"	3 1/2"	8"	7"
#8	6"	11"	14 1/2"	4"	9"	8"
#9	6 3/4"	11 3/4"	15 1/2"	4 1/2"	10"	9 1/2"
#10	7 1/4"	12 1/2"	16 1/2"	5"	11"	10"
#11	8 1/4"	13 1/2"	17 1/2"	5 1/2"	12"	11 1/2"
#14	10 1/2"	16 1/2"	20"	7 1/2"	15"	14"
#18	14 1/2"	20 1/2"	27 1/2"	10 1/2"	20"	19"

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 CENTER OF BARS UNLESS NOTED OTHERWISE. "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 GLASS FIBER REINFORCED POLYMER COATED BARS DESIGNATED "GFRP" IN THE "COAT" COLUMN.
C. PROVIDE BARS TYPE "S" OR "V" 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.



PROJECT NO.	02-23-0135
DRAWING NO.	18294
DATE:	9/23/26
SHEET NO.:	47 OF 47

METAL REINFORCEMENT (4 OF 4)
200 S ROAD OVER CAMAS CREEK
207' PRESTRESSED CONCRETE BRIDGE

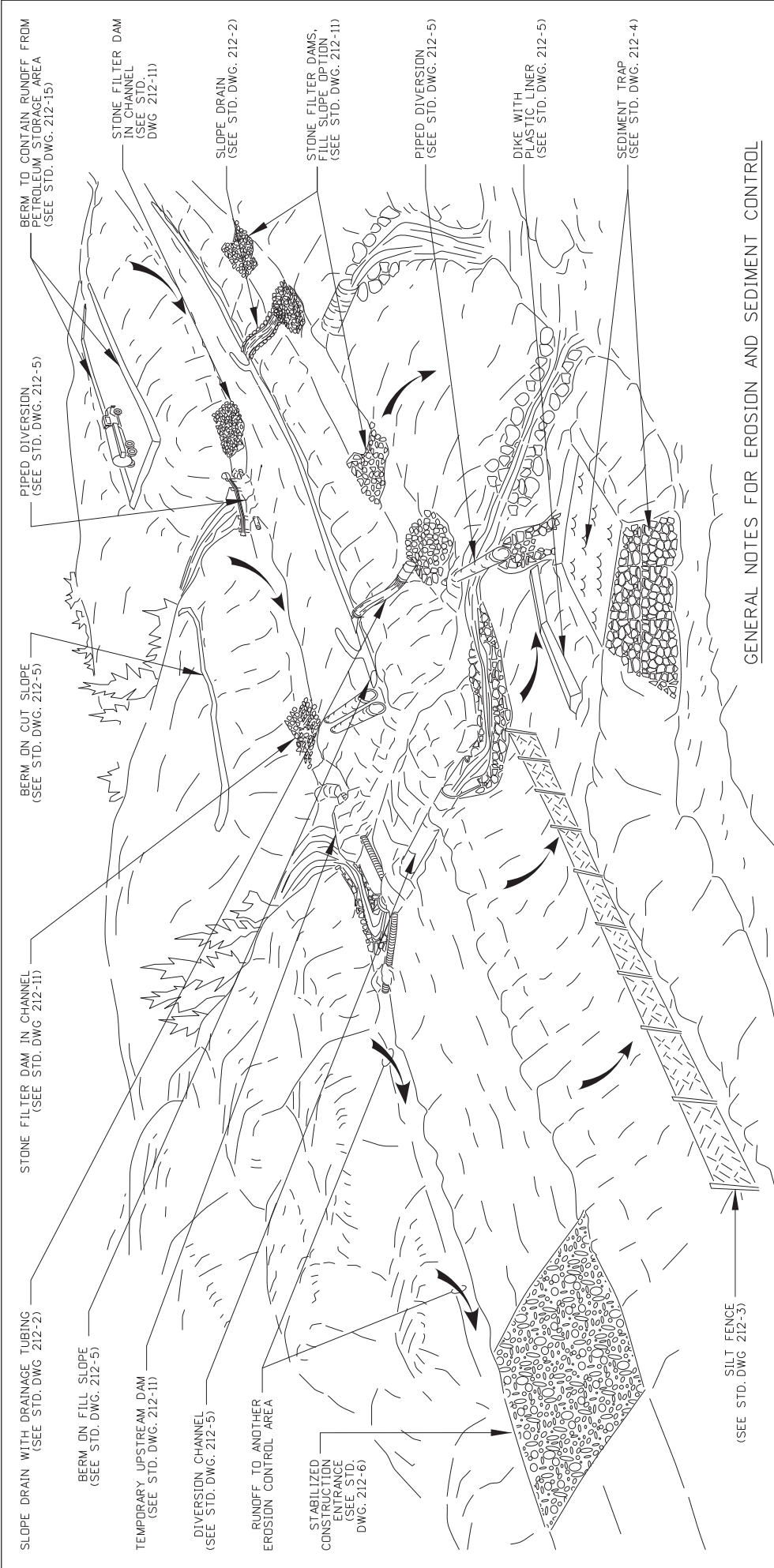


LEADING IDAHO LOCAL BRIDGE PROGRAM

SCALES SHOWN	AS NOTED
ARE FOR 11x17	
PRINTS ONLY	
COUNTY	CANAWAS
BRIDGE KEY NUMBER	23801

DRAWN	J. SHERMAN
DESIGNED	J. SHERMAN
APPROVED	J. SHERMAN
DATE	

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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
 RYAN D. LANCASTER
 STATE OF IDAHO
 LICENSE NO. 13683

STANDARD DRAWING NO.	212-1
SHEET 1 OF 1	

English

EROSION AND SEDIMENT CONTROL
 EXAMPLE APPLICATIONS

STANDARD DRAWING

ORIGINAL SIGNED BY: KEVIN SABLAN
 DESIGN/TRAFFIC SERVICES ENGINEER

IDAHO TRANSPORTATION DEPARTMENT

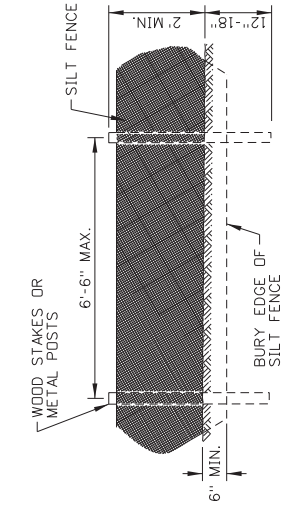
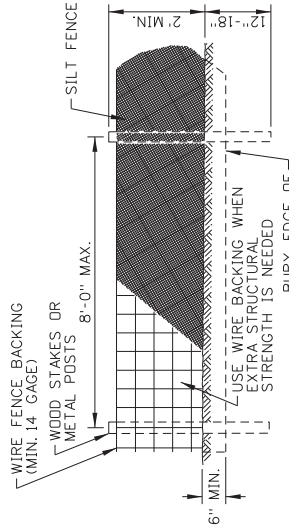
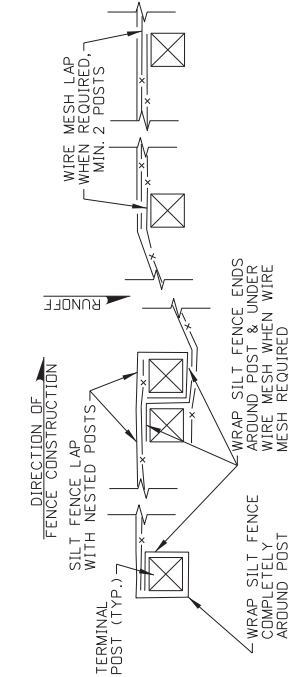
BOISE IDAHO

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

ARC FILE: "17"
 PRINTS ONLY

CADD FILE NAME:
 212-01_0421.dgn

DRAWING DATE:
 APRIL, 1993



SILT FENCE LAP DETAIL

SILT FENCE (WIRE BACKING)

SILT FENCE (NO WIRE BACKING)

FIBER WATTLE & COMPOST SOCK SPACING TABLE

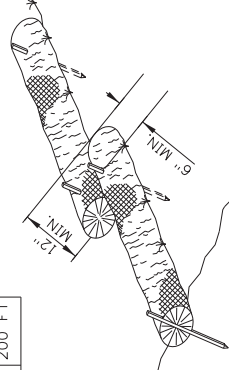
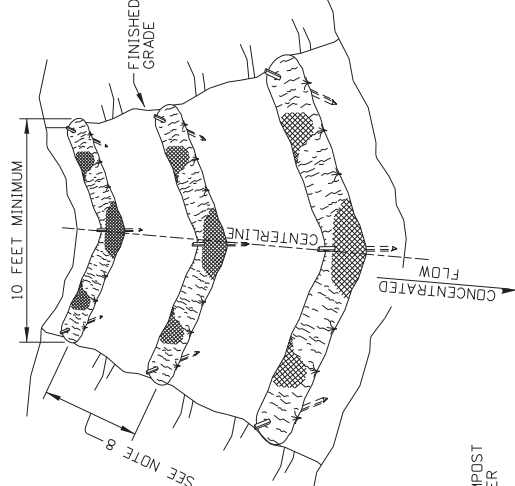
SLOPE	WATTLE SIZE
6"	9" 12" 20"
1:1	5 FT 10 FT 15 FT 20 FT
2:1	10 FT 20 FT 30 FT 40 FT
3:1	15 FT 30 FT 45 FT 60 FT
4:1 OR FLATTER	20 FT 40 FT 60 FT 80 FT

SILT FENCE SPACING TABLE

SLOPE	SOIL TYPE
1:1	CLAYS SANDY
2:1	50 FT 75 FT 100 FT
4:1	75 FT 100 FT 125 FT
10:1 OR FLATTER	100 FT 125 FT 150 FT 200 FT

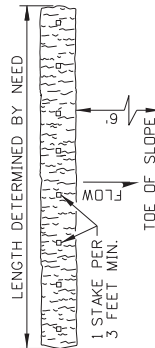
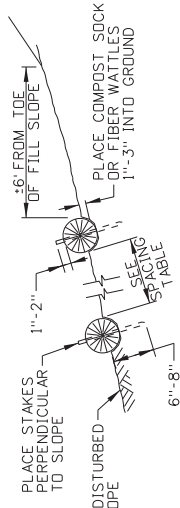
NOTES

- SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
- 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.
- INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
- PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. USE EITHER METAL POSTS OR WOOD STAKES.
- ENSURE RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
- GROUND SILT FENCES WITH WIRE MESH IN ACCORDANCE WITH THE GROUNDING DETAIL SHOWN ON STANDARD DRAWING 610-1.
- EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
- 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.
- 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.
- REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE BARRIER.
- DRAWING NOT TO SCALE.



COMPOST SOCK AND FIBER WATTLE OVERLAPPING DETAIL

COMPOST SOCK AND FIBER WATTLE ABUTTING DETAIL



COMPOST SOCK AND FIBER WATTLE PLAN VIEW

REVISIONS

NO.	DATE	BY	NO.	DATE	BY
1	09-93	MSM	6	01-13	ROL
2	12-94	MSM	7	03-21	TWF
3	06-96	GPK			
4	10-10	KEH			
5	10-11	KEH			

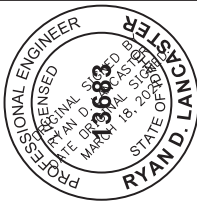
SCALES SHOWN: ARC. 1" = 10' (V), 7" PRINTS ONLY
CADD FILE NAME: 212-03_0421.dgn
DRAWING DATE: APRIL, 1993

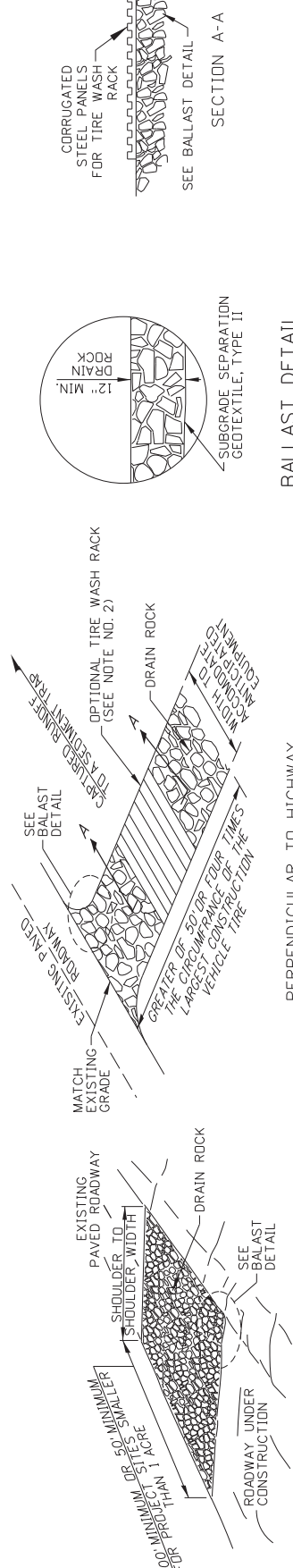


ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

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



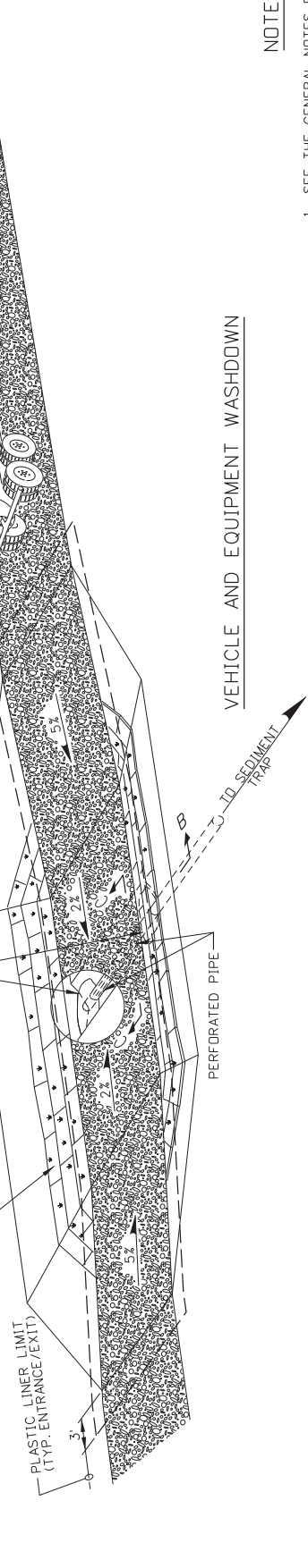


STABILIZED CONSTRUCTION ENTRANCE

PERPENDICULAR TO HIGHWAY

IN-LINE WITH HIGHWAY

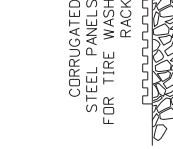
VEHICLE AND EQUIPMENT WASHDOWN



VEHICLE AND EQUIPMENT WASHDOWN

SECTION B-B

SECTION C-C



SECTION A-A



BALLAST DETAIL

NOTES

1. SEE THE GENERAL NOTES FOR EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. DRAWING NOT TO SCALE.

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

English
STANDARD DRAWING NO. 212-6
SHEET 1 OF 1

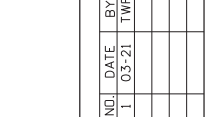
STANDARD DRAWING
TEMPORARY EROSION AND SEDIMENT CONTROL STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE WASHDOWN
REQUIRES STD. DWG. 212-1

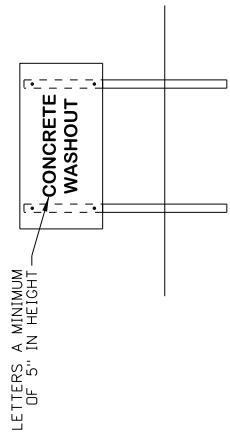
ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

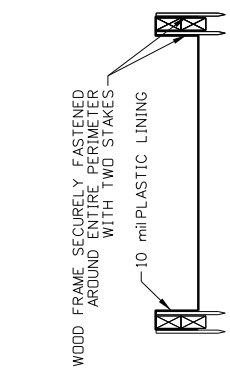
REVISIONS				SCALES SHOWN	
NO.	DATE	BY	NO.	DATE	BY
1	03-21	TWF			

ARC LENGTH 11" x 17" PRINTS ONLY
CADD FILE NAME: 212-06_0421.dgn
DRAWING DATE: NOVEMBER, 2016

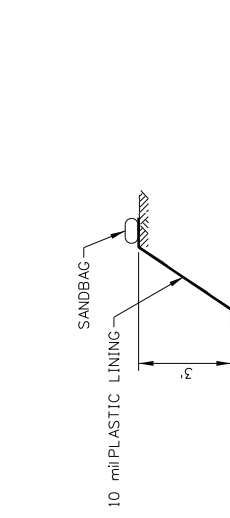




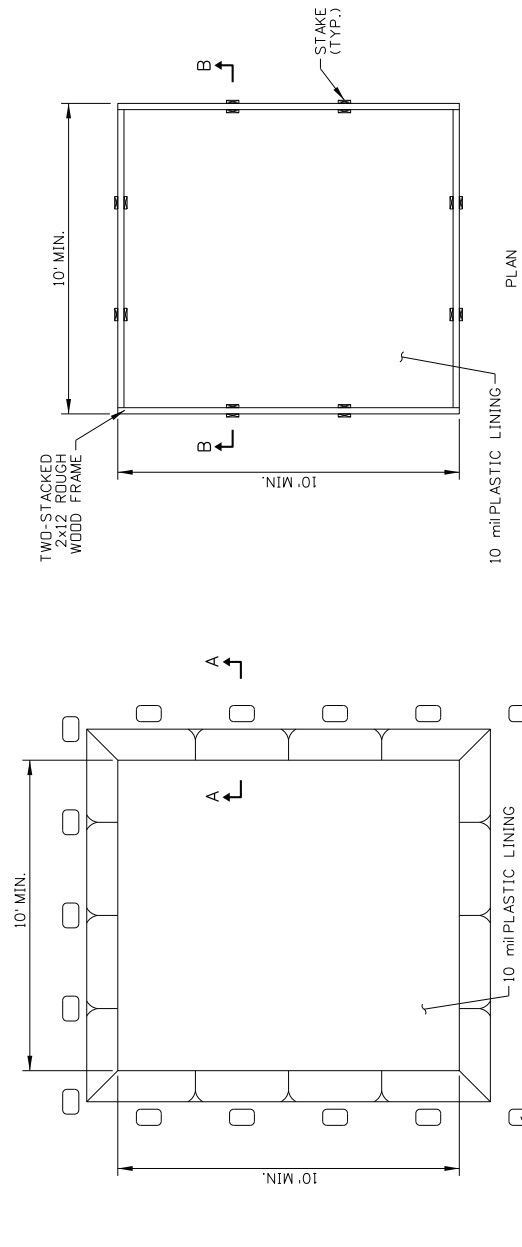
CONCRETE WASHOUT SIGN DETAIL
(SEE NOTE NO. 2)



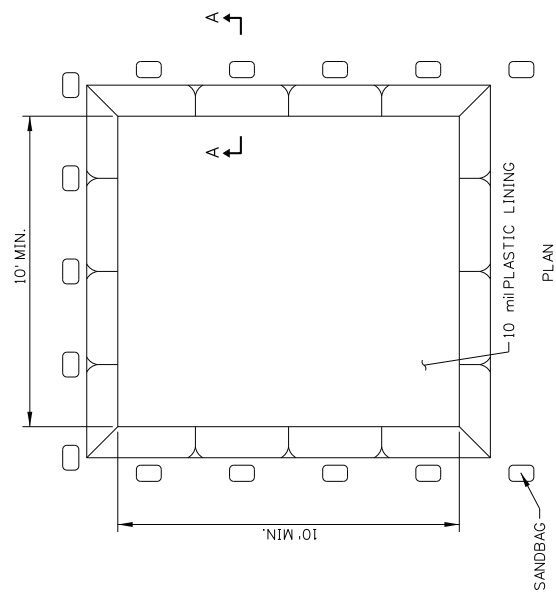
SECTION B-B



SECTION A-A



TYPE ABOVE GRADE



TYPE BELOW GRADE

NOTES

1. USE THIS DRAWING IN CONJUNCTION WITH THE ITD BEST MANAGEMENT PRACTICES (BMP) MANUAL.
2. ACTUAL LAYOUT DETERMINED IN THE FIELD
3. INSTALL THE CONCRETE WASHOUT SIGN WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
4. USE OF PREFABRICATED TEMPORARY WASHOUT MAY ONLY BE USED ON APPROVAL BY THE ENGINEER.
5. NOT TO SCALE.

REVISIONS				SCALES SHOWN	
NO.	DATE	BY	IND.	NO.	DATE
1	11-13				


IDAHO TRANSPORTATION DEPARTMENT
 BOISE, IDAHO

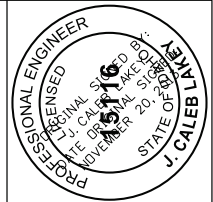
ORIGINAL SIGNED BY: TOM CDLE for HIGHWAYS PROGRAM OVERSIGHT ENGINEER
 ORIGINAL SIGNED BY: TOM CDLE CHIEF ENGINEER

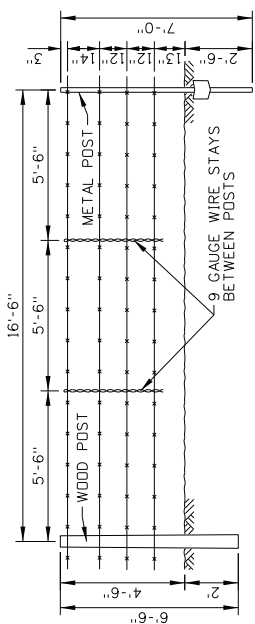
STANDARD DRAWING
TEMPORARY CONCRETE WASHOUT

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

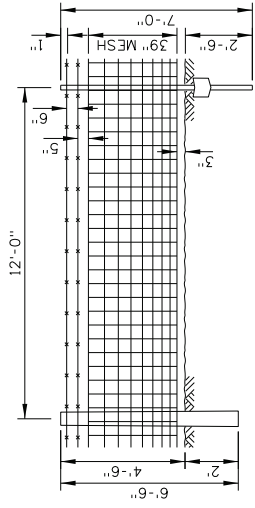
English
 STANDARD DRAWING NO. 212-16

SHEET 1 OF 1

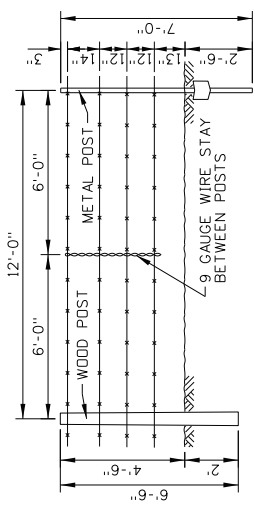




1A (WOOD)
FENCE TYPE 1



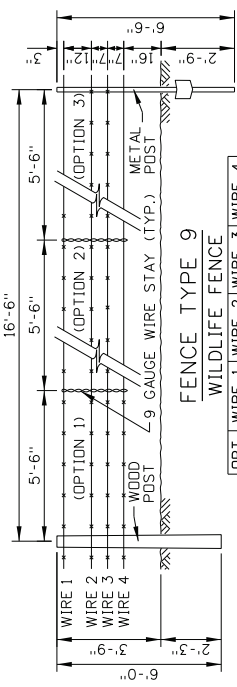
3A (WOOD)
FENCE TYPE 3



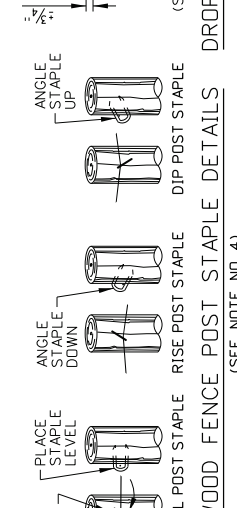
5-A (WOOD)
FENCE TYPE 5



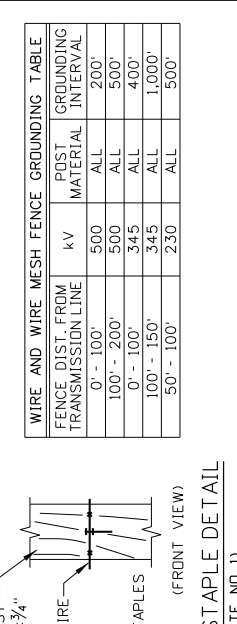
5-B (METAL)
FENCE TYPE 5



9-A (WOOD)
FENCE TYPE 9



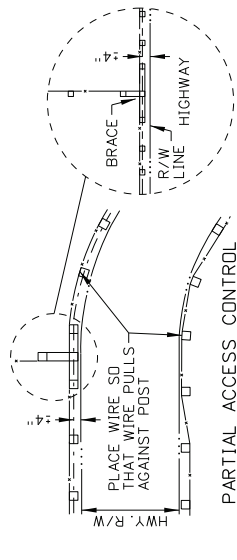
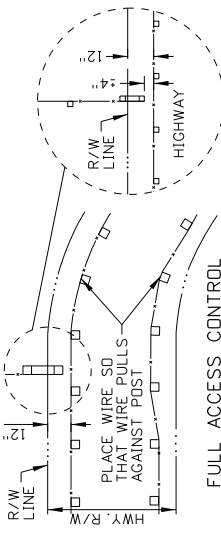
9-B (METAL)
FENCE TYPE 9



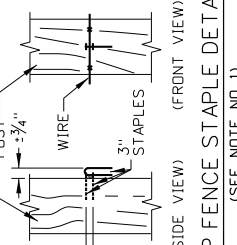
9-C (METAL)
FENCE TYPE 9

WILDLIFE FENCE

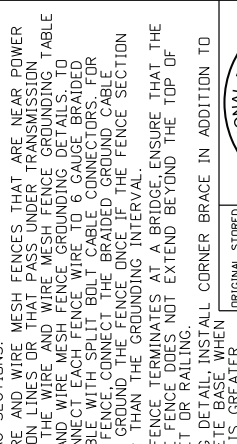
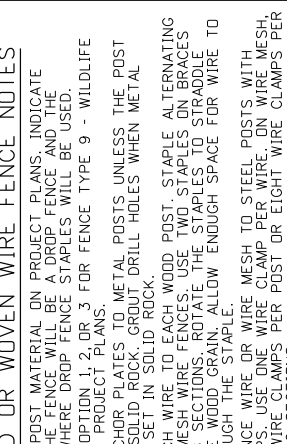
OPT.	WIRE 1	WIRE 2	WIRE 3	WIRE 4
1	BARBED	BARBED	BARBED	BARBED
2	BARBED	BARBED	BARBED	SMOOTH
3	SMOOTH	BARBED	BARBED	SMOOTH



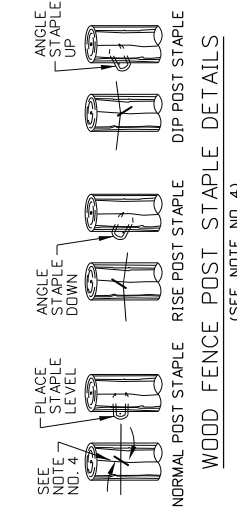
RIGHT-OF-WAY FENCE LOCATION DETAILS



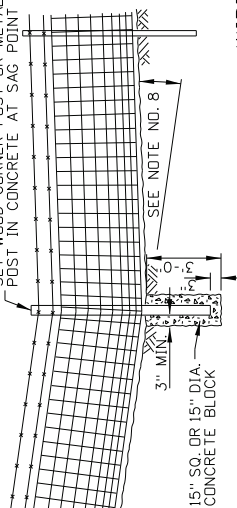
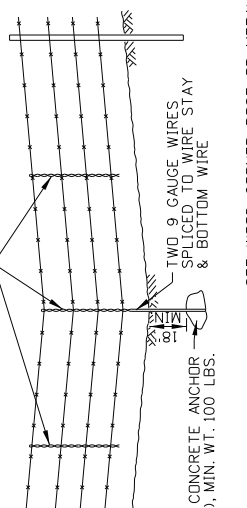
WOOD FENCE POST STAPLE DETAILS
(SEE NOTE NO. 4)



BARBED OR WOVEN WIRE FENCE NOTES
(SEE NOTE NO. 6)



WIRE AND WIRE MESH FENCE GROUNDING TABLE



WIRE AND WIRE MESH FENCE GROUNDING DETAILS

NO.	DATE	BY	NO.	DATE	BY

REVISIONS

SCALES SHOWN: ARC FOR 1" = 17'-0"

PRINTS ONLY

CADD FILE NAME: 610-1-1216.dgn

DRAWING DATE: NOVEMBER, 2016

ORIGINAL SIGNED BY: TED MASON
DESIGN/TRAFFIC SERVICES ENGINEER

BOISE IDAHO

STANDARD DRAWING

FENCES

610-1

SHEET 1 OF 3

English

STANDARD DRAWING NO.

610-1

SHEET 1 OF 3

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

PROFESSIONAL ENGINEER

RYAN D. LANCASTER

STATE OF IDAHO

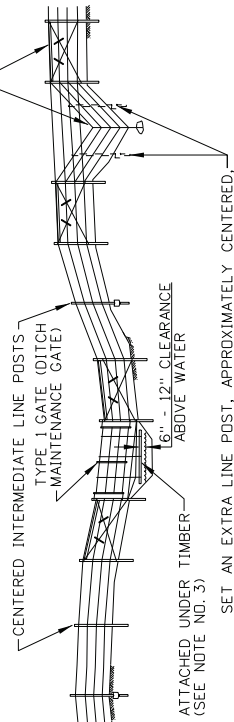
PROFESSIONAL ENGINEER

NO. 13683

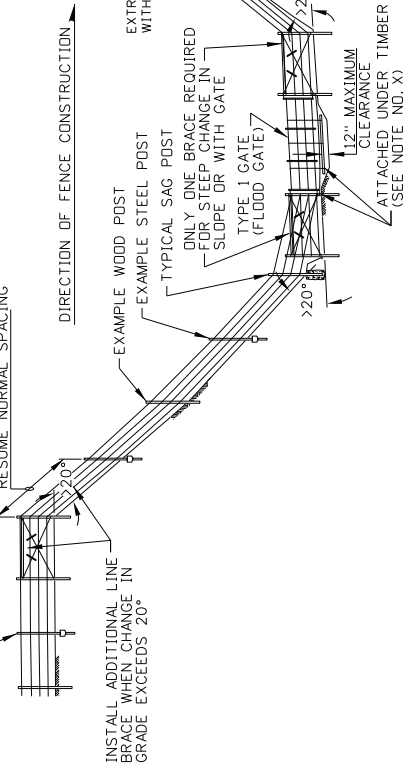
EXPIRES 12/31/2016

RECEIVED 6/15/2016

SPECIAL SAG SECTION, EXTRA LINE FENCE WITH LINE BRACES AND DEADMAN (SEE NOTE NO. X)



INSTALL AN ADDITIONAL LINE BRACE FOR SLOPE CHANGES GREATER THAN 20°

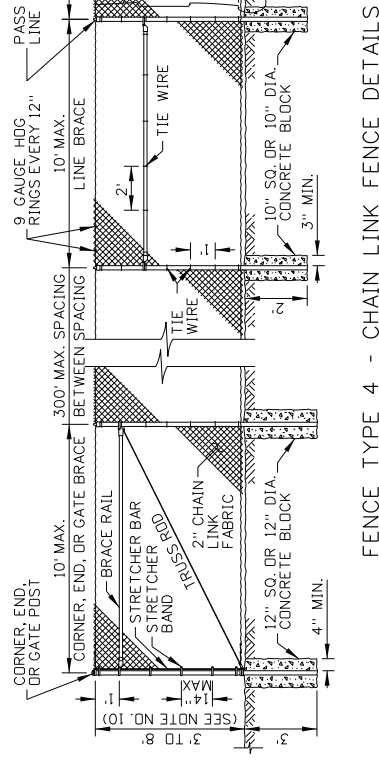
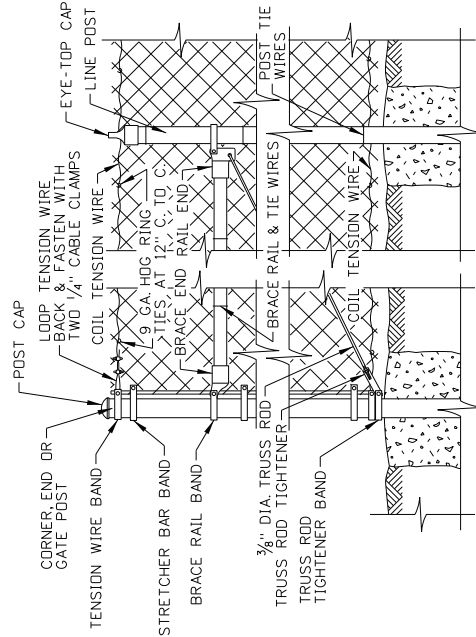


BARBED OR WOVEN WIRE FENCE NOTES

9. WHEN A FENCE LINE APPROACHES A DITCH, GULLY, OR DEPRESSION, PLACE THE LINE POST ON LEVEL GROUND CLOSE TO THE DEPRESSION, PLACE THE DEADMAN AND BRACE POST 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 TYPICAL WIRE SPACING, 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.

EXAMPLE FENCE APPLICATIONS

FOR FENCE TYPES 1, 3, 5, & 9



FENCE TYPE 4 - CHAIN LINK FENCE DETAILS

FENCE TYPE 4
CHAIN LINK FENCE

REVISIONS		SCALES SHOWN	
NO.	DATE	BY	NO.



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FENCES

English
STANDARD DRAWING NO.
610-1
SHEET 2 OF 3

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RYAN D. LANCASTER
STATE OF IDAHO
NO. 13683
EXPIRES: DECEMBER 6, 2016

ORIGINAL SIGNED BY: TED MASON
DESIGN/TRAFFIC SERVICES ENGINEER

IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

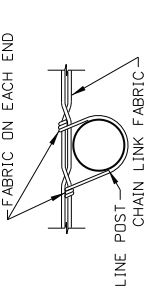
NO. DATE BY NO. DATE BY NO. DATE BY
PRINTS ONLY
CADD FILE NAME: 610-1-1216.dgn
DRAWING DATE: NOVEMBER, 2016

CHAIN LINK FENCE HARDWARE TABLE

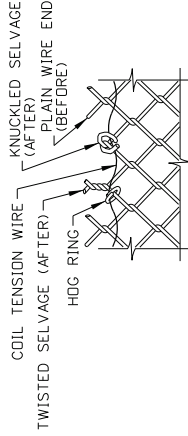
DESCRIPTION	QUANTITY	UNIT	REVISIONS	SCALES SHOWN	ARC LENGTH	DATE	BY	DATE	BY
CORNER, END AND GATE POSTS									
LINE POST									
BRACE RAIL/TOP RAIL									
POST CAP									
EYE-TOP CAP									
STRECHER BAR BAND									
TENSION WIRE/BRACE BAND									
BAND BOLT									
RAIL END									
BRACE END									
TRUSS ROD TIGHTENER									
TRUSS ROD									
TOP RAIL SLEEVE									
TENSION BAR									
FENCE FABRIC									
TIE WIRES									
COIL TENSION WIRE									
BARBED WIRE & 3-WIRE BARBARM									

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'

WRAP TIE WIRES TWO COMPLETE TURNS AROUND THE FENCE FABRIC ON EACH END

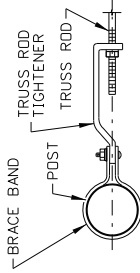


CHAIN LINK FENCE TIE DETAIL



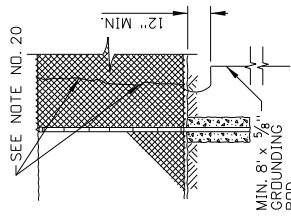
WIRE SELVAGE DETAIL (SEE NOTE NO. 16)

TRUSS ROD TIGHTENER DETAIL



CHAIN LINK FENCE NOTES

- 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.
- SPACE POSTS EQUAL DISTANCES APART, 10' MAXIMUM SPACING. 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.
- STRETCH THE FENCE FABRIC SMOOTH SO THAT IT HAS A UNIFORM APPEARANCE.
- 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.
- 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.
- INSTALL A TOP RAIL WHEN BARBED WIRE AND THE 3-WIRE BARBARM ARE USED.
- INSTALL PRIVACY FENCE SLATS IF SHOWN ON PROJECT PLANS.
- 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.
- DRAWING NOT TO SCALE.



CHAIN LINK FENCE GROUNDING DETAIL

NO.	DATE	BY	NO.	DATE	BY



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DEPARTMENT

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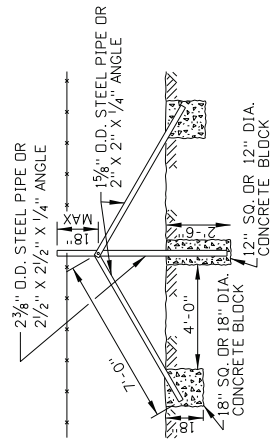
STANDARD DRAWING
FENCES

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 3311 West State
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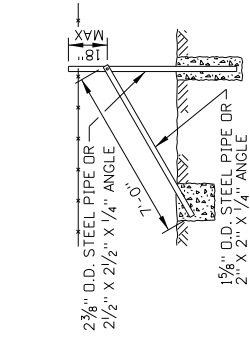
English
 STANDARD DRAWING NO.
610-1

SHEET 3 OF 3

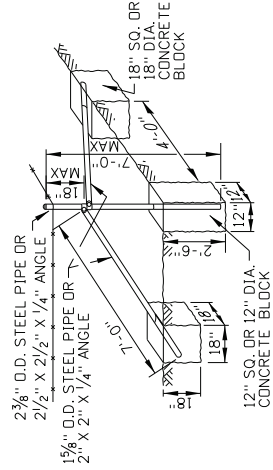
PROFESSIONAL ENGINEER
 RYAN D. LANCASTER
 STATE OF IDAHO
 LICENSE NO. 133683
 EXPIRES 6/30/2016



LINE BRACE

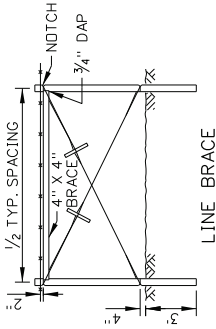


TERMINAL BRACE

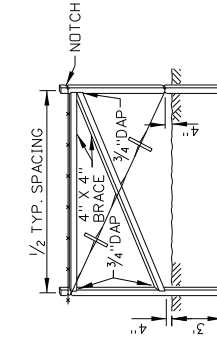


CORNER BRACE

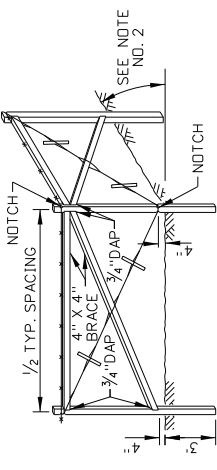
FENCE TYPE	DISTANCE BETWEEN BRACES	METAL BRACES	WOOD BRACES
1, 5, & 9	<66'	NONE	NONE
	66' TO 660'	SINGLE	SINGLE
	660' TO 990'	DO NOT EXCEED 660'	DOUBLE
3	<33'	NONE	NONE
	33' TO 330'	SINGLE	SINGLE
	330' TO 660'	DO NOT EXCEED 330'	DOUBLE
4	INTEGRATED INTO CHAIN LINK FENCE		



LINE BRACE

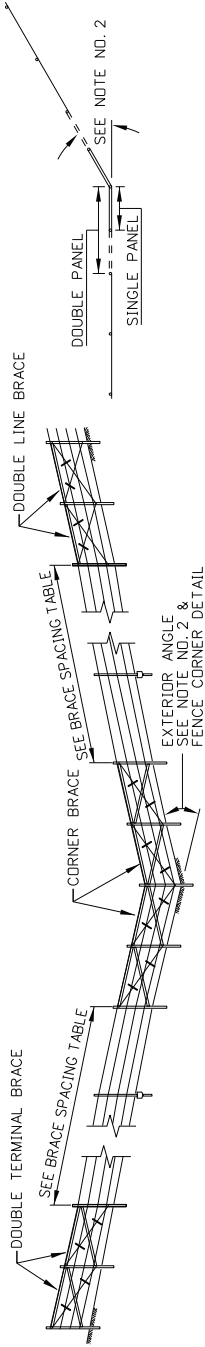


TERMINAL BRACE



CORNER BRACE

WOOD BRACES



WOOD DOUBLE BRACE PANELS

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 CIRCLES DO NOT EXCEED 30'. FIRST ALL DOUBLE LINE AND TERMINAL BRACES IN ACCORDANCE WITH THE FENCE BRACE TABLE.
3. SEE THE BRACE SPACING TABLE FOR THE MAXIMUM DISTANCES BETWEEN BRACES.

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

IDAHO TRANSPORTATION DEPARTMENT

 ORIGINAL SIGNED BY: TED MASON
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
FENCE BRACES
 REQUIRES STD. DWG. 610-1

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English
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610-3
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 SHEET 1 OF 1