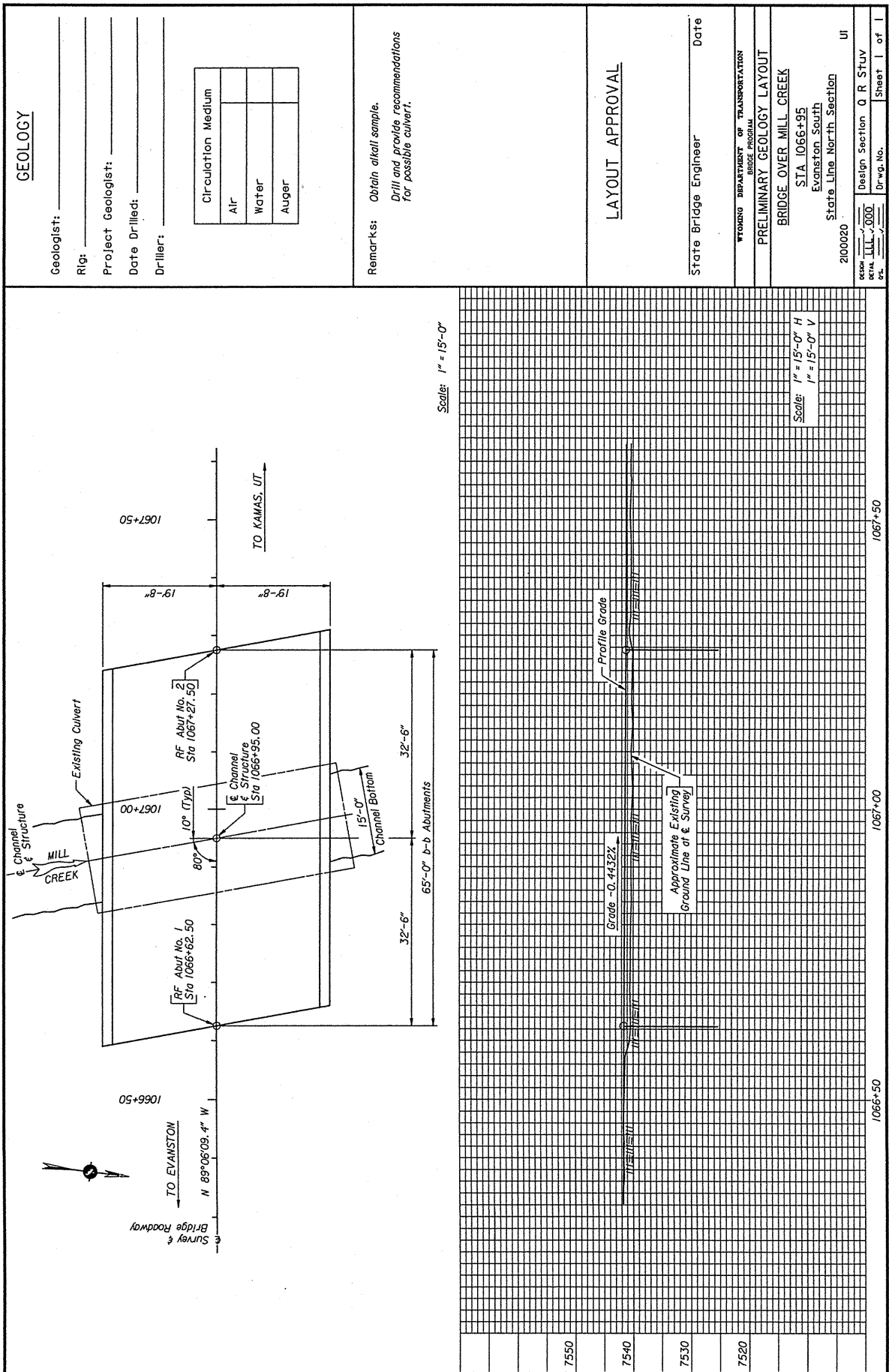


Section 4.01 - Preliminary



Wyo. Proj. 2100020
Sheet of Sheets

BRIDGE OVER MILL CREEK

STA 1066 ± 95

EVANSTON SOUTH

STATE LINE NORTH SECTION

UNTA COUNTY

2100020

PRELIMINARY

DESIGN DATA

SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition

ADT: 750 (Year 2018)

LOADING: HS25, Asphalt overlay 30 psf. Future wearing surface 18 psf.

REINFORCED CONCRETE: Load Factor Design -
 Class B Concrete $f'_c = 3250$ psi
 Reinforcing Steel $f_y = 60,000$ psi (Grade 60)
 $f_y = 40,000$ psi (Grade 40)

PRESTRESSED CONCRETE: Load Factor Design -
 Concrete $f'_c = 5000$ psi
 $f'_{ci} = 4000$ psi
 Reinforcing Steel $f_y = 60,000$ psi (Grade 60)
 $f_y = 40,000$ psi (Grade 40)
 Prestressing Steel $f_s = 270,000$ psi (Grade 270)

STRUCTURAL STEEL: Load Factor Design - $F_y = 36,000$ psi (Grade 36)

APPROACH ROADWAY WIDTH: 36'-0"

FOOTING PRESSURES: Allowable Stress -
 Abutments, x Tsf per footing

INDEX OF DRAWINGS

Drawing:	Title Sheet	Sheet No. 1
	General Notes	2
	General Plan and Elevation	3
	Substructure Layout	4
	Riprap Details	5
	Log Boring Sheet	6
	Abutment Details	7-8
	Superstructure Details	9-11
	Bridge Railing Details	12-13
	Approach Slab Details	14-15

ITEM NO.	ITEM	ESTIMATED QUANTITIES - CODE 08		ESTIMATE
		UNIT	TOTAL QUANTITY	
202.03100	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	LUMP SUM	X EA
212.02100	DRY EXCAVATION	CY	X	
212.02200	WET EXCAVATION	CY	X	
217.01010	GEOTEXTILE, EROSION CONTROL	SY	X	
217.01030	GEOTEXTILE, EMB AND RETAINING WALL	SY	X	
501.01000	STRUCTURAL STEEL	LS	LUMP SUM	X LB
502.50044	PRESTRESSED PRECAST CONC BULB T 44 In	FT	X	
503.01000	BRIDGE RAILING	FT	X	
507.01000	REINFORCED CONC APPROACH SLABS	SY	X	
511.02000	GABIONS	CY	X	
512.01040	COMPRESSED JOINT MATERIAL	FT	X	
513.00015	CLASS B CONCRETE	LS	LUMP SUM	X CY
514.00015	REINFORCING STEEL	LS	LUMP SUM	X LB
514.00025	REINFORCING STEEL (COATED)	LS	LUMP SUM	X LB
605.10006	UNDERDRAIN PIPE (PERF) 6 In	FT	X	
605.20006	UNDERDRAIN PIPE (NON-PERF) 6 In	FT	X	

STRUCTURE NO. LNB, RM 19.12
SEC 6, T12N, R19W

WYOMING DEPARTMENT OF TRANSPORTATION
BRIDGE PROGRAM

APPROVED: _____
 DATE: _____
 DESIGN SECTION: Q R STUV
 DRAWING NO.: P-0004
 SHEET 1 OF 3

2100020_2p11.dgn

Wyo. Proj. 200020
Sheet of Sheets

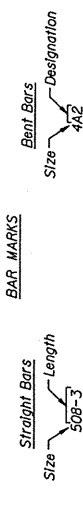
GENERAL NOTES

SPECIFICATIONS: WYDOT Standard Specification for Road and Bridge Construction, 2003 Edition

DIMENSIONS: Longitudinal dimensions for the substructure are horizontal and include no correction for grade. Longitudinal dimensions for the superstructure are along grade. Slopes are vertical; horizontal.

CONCRETE: Use class B concrete at all locations except the prestressed precast bridge sections.

REINFORCING STEEL: Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.



STRUCTURAL STEEL: Ensure structural steel conforms to ASTM A 709 (Grade 36).

BRIDGE RAILING ANCHORAGES: Work necessary for the embedded anchor plates and pipes is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 in.

EYEBOLTS: Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay item Class B Concrete.

COMPRESSED JOINT MATERIAL: Use 3" wide (uncompressed) by 2" deep compressed joint material. Provide one of the following products: Willseal 600 as manufactured by Illbruck Sealant Systems, Inc. 20H System as manufactured by Emscol Joint Systems, Ltd.

WELD TIE ASSEMBLY: Work necessary for the weld tie assemblies is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 in.

BACKER ROD: Use a closed cell polyethylene backer rod with a diameter 1/4" larger than the gap width. Work necessary for the backer rod is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 in.

SPONGE RUBBER: Use sponge rubber conforming to AASHTO M 153 Type I. Work necessary for the sponge rubber is incidental to the contract pay item Class B Concrete.

NONSHRINK GROUT: Work necessary for the nonshrink grout is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 in.

GABIONS: Use aggregate conforming to Subsection 803.15.6, Stone-Filled Gabions.

PRESTRESSED PRECAST CONCRETE GIRDERS: Low-relaxation strands conforming to ASTM A 416 (Grade 270) may be used, provided that design computations are submitted along with data regarding the properties and effects of the low-relaxation strands used.

Ensure the title pages of the design computations and shop plans bear the seal and signature of a professional engineer.

ALTERNATE BULB T SECTIONS: Two alternate bulb tee girder sections for the bridge superstructure are included. The estimated quantity for the bulb tee girder sections is based on Alternate 1 (44" depth bulb tee).

REMOVAL OF STRUCTURES AND OBSTRUCTIONS: Remove the existing 199' x 121' x 74'-0" structural plate pipe arch culvert.

DRY EXCAVATION: The estimated quantity of dry excavation is calculated below existing ground line to the limits shown at approach slabs and below existing ground line at abutments.

WET EXCAVATION: The estimated quantity of wet excavation is calculated below elevation 7532.0 at abutments.

FOUNDATIONS: Abutments are on columns on spread footings founded in dense to very dense sand and gravel with cobbles and some boulders. Anticipate shoring or flattened slopes for the construction of the footings.

PAINT: Use a gray tan top coat color for structural steel.

BRIDGE OFFICE NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 14 calendar days after the new structure has been opened to traffic.

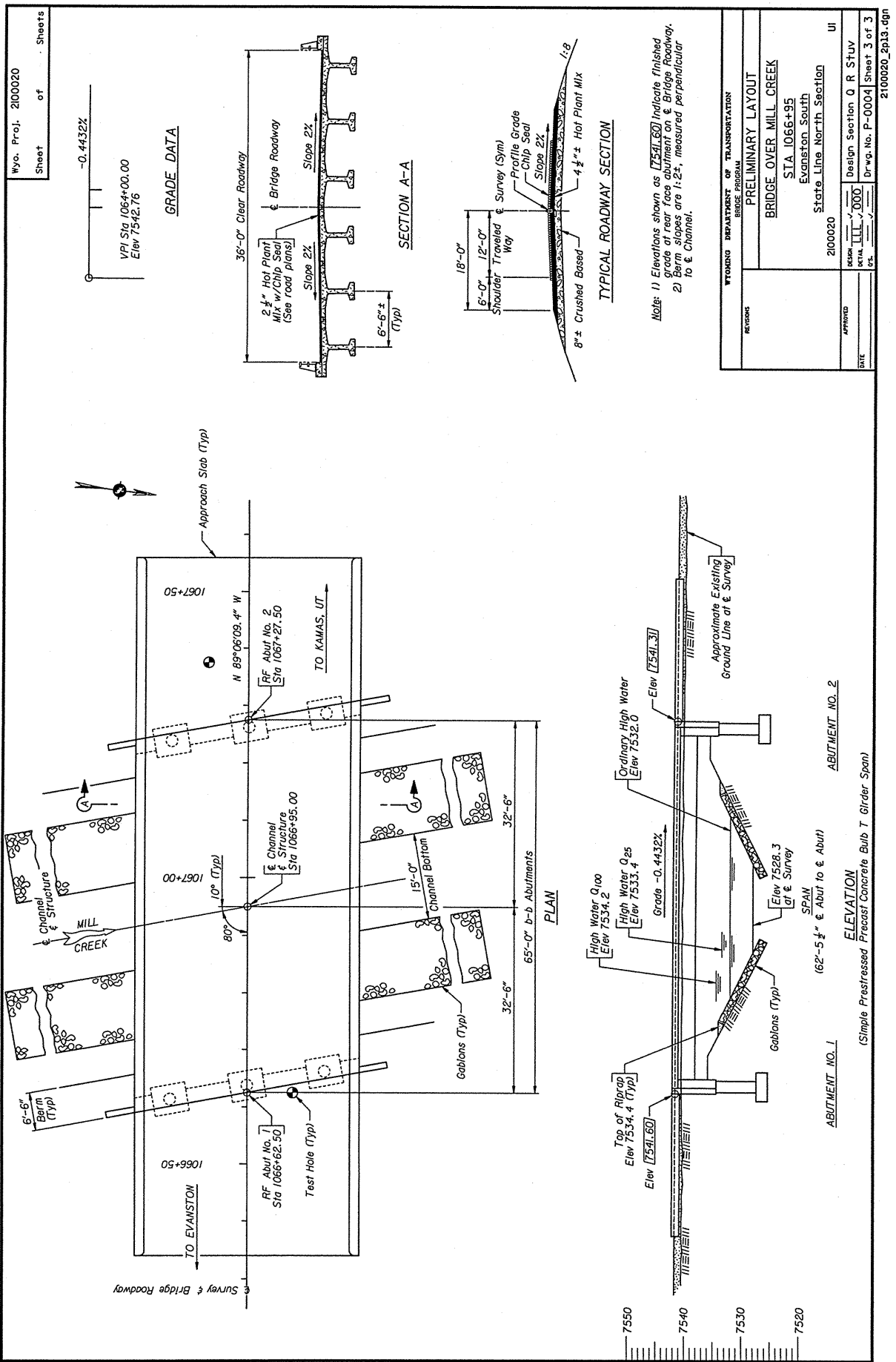
REFERENCES

Supplementary Specifications: Dated
SS-500B Walder Qualification --- Rev 12-7-04
SS-500E Bridge Bearing Correction --- Rev 7-9-04
Standard Plans: Wire Enclosed Riprap and Gablions
511-1

STREAM DATA

Drainage Area	58.6 Sq Mi
Channel Slope	0.02%
Description of Channel Material	Sandy gravel
Drift Potential	Trees and logs
Ordinary High Water Elevation	7532.0 ft
Headwater Elevation	7534.8 ft
High Water Elevation	7536.0 ft
Constriicted Velocity	9.51 fps
Design Frequency	25 Year
Design Discharge	890 cfs
Review Discharge	1290 cfs
Source of Discharge	Floodflow Characteristics of Wyoming Streams
Method of Analysis	HEC-RAS and WSP
Flood History	Unknown

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM	
PRELIMINARY GENERAL NOTES	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
200020	UI
DESIGN DATE 11/1/00	Design Section Q R STUV
ISS. 1/1/00	Drwg. No. P-0004 Sheet 2 of 3



Wyo. Proj. 2100020
Sheet B8 of B25 Sheets

BRIDGE OVER MILL CREEK

STA 1066 + 95

EVANSTON SOUTH

STATE LINE NORTH SECTION

UINTA COUNTY

2100020

DESIGN DATA

SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition

ADI: 750 (Year 2018)

LOADING: HS25, Asphalt overlay 30 psf, Future wearing surface 18 psf.

REINFORCED CONCRETE: Load Factor Design -
 Class B Concrete $f'_c = 3250$ psi
 Reinforcing Steel $f_y = 60,000$ psi (Grade 60)
 $f_y = 40,000$ psi (Grade 40)

PRESTRESSED CONCRETE: Load Factor Design -
 Concrete $f'_c = 5000$ psi
 $f'_ci = 4000$ psi
 Reinforcing Steel $f_y = 60,000$ psi (Grade 60)
 $f_y = 40,000$ psi (Grade 40)
 Prestressing Steel $f_s = 270,000$ psi (Grade 270)

STRUCTURAL STEEL: Load Factor Design - $F_y = 36,000$ psi (Grade 36)

APPROACH ROADWAY WIDTH: 36'-0"

FOOTING PRESSURES: Allowable Stress -
 Abutments, 5.0 Tsf per Footing

INDEX OF DRAWINGS

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Substructure Layout	4
Gabions Details	5
Log Boring Sheet	6
Abutment Details	7-8
Superstructure Details	9-12
Bridge Railing Details	13-14
Approach Slab Details	15-16

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES - CODE 08	
			TOTAL QUANTITY	ESTIMATE
202.03100	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	LUMP SUM	1 EA
212.02100	DIRT EXCAVATION	CY	570	
212.02200	WET EXCAVATION	CY	120	
217.01010	GEOTEXTILE, EROSION CONTROL	SY	450	
217.01030	GEOTEXTILE, EMB AND RETAINING WALL	SY	1410	
501.01000	STRUCTURAL STEEL	LS	LUMP SUM	800 LB
502.50044	PRESTRESSED PRECAST CONC BULB T 44 In	FT	383	
503.01000	BRIDGE RAILING	FT	244	
507.01000	REINFORCED CONC APPROACH SLABS	SY	249	
507.01000	BRIDGE APPROACH BACKFILL	CY	480	
511.02000	GABIONS	SY	450	
512.01040	COMPRESSED JOINT MATERIAL	FT	83	
513.00015	CLASS B CONCRETE	LS	LUMP SUM	84.5 CY
514.00015	REINFORCING STEEL	LS	LUMP SUM	11,880 LB
514.00025	REINFORCING STEEL (COATED)	LS	LUMP SUM	1120 LB
605.10006	UNDERDRAIN PIPE (PERF) 6 In	FT	80	
605.20006	UNDERDRAIN PIPE (NON-PERF) 6 In	FT	40	

STRUCTURE NO. LNB, RM 19.12
 SEC 6, T12N, R19W

WYOMING DEPARTMENT OF TRANSPORTATION
 BRIDGE PROGRAM

DATE	DESIGN SECTION	Q R STUV
APPROVED	DRWG. NO.	0004
	SHEET	1 OF 16

2100020_218.dgn

Myo. Proj. 2100020
Sheet B9 of B25 Sheets

GENERAL NOTES

SPECIFICATIONS: WYDOT Standard Specification for Road and Bridge Construction, 2003 Edition

DIMENSIONS: Longitudinal dimensions for the substructure are horizontal and include no correction for grade. Longitudinal dimensions for the superstructure are along grade. Slopes are vertical : horizontal.

CONCRETE: Use class B concrete at all locations except the prestressed precast bridge sections.

REINFORCING STEEL: Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.



STRUCTURAL STEEL: Ensure structural steel conforms to ASTM A 709 (Grade 36).

BRIDGE RAILING ANCHORAGES: Work necessary for the embedded anchor plates and pipes is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 In.

EYEBOULTS: Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay item Class B Concrete.

COMPRESSED JOINT MATERIAL: Use 3" wide (uncompressed) by 2" deep compressed joint material. Provide one of the following products: Willseal 600 as manufactured by Illbruck Sealant Systems, Inc. 20H System as manufactured by Enseld Joint Systems, Ltd.

WELD TIE ASSEMBLY: Work necessary for the weld tie assemblies is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 In.

BACKER ROD: Use a closed cell polyethylene backer rod with a diameter 1/8" larger than the gap width. Work necessary for the backer rod is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 In.

Sponge Rubber: Use sponge rubber conforming to AASHTO M 153 Type I. Work necessary for the sponge rubber is incidental to the contract pay item Class B Concrete.

NONSHRINK GROUT: Work necessary for the nonshrink grout is incidental to the contract pay item Prestressed Precast Concrete Bulb T 44 In.

GABLONS: Use aggregate conforming to Subsection 803.15.6, Stone-Filled Gablons.

PRESTRESSED PRECAST CONCRETE GIRDERS: Low-relaxation strands conforming to ASTM A 416 (Grade 270) may be used, provided that design computations are submitted along with data regarding the properties and effects of the low-relaxation strands used.

Ensure the title pages of the design computations and shop plans bear the seal and signature of a professional engineer.

ALTERNATE BULB T SECTIONS: Two alternate bulb tee girder sections for the bridge superstructure are included. The estimated quantity for the bulb tee girder sections is based on Alternate 1 (44" depth bulb tee).

REMOVAL OF STRUCTURES AND OBSTRUCTIONS: Remove the existing 199" x 12" x 74"-0" structural plate pipe arch culvert.

DRY EXCAVATION: The estimated quantity of dry excavation is calculated below existing ground line to the limits shown at approach slabs and below existing ground line at abutments.

WET EXCAVATION: The estimated quantity of wet excavation is calculated below elevation 7532.0 at abutments.

FOUNDATIONS: Abutments are on columns on spread footings founded in dense to very dense sand and gravel with cobbles and some boulders. Anticipate shoring or flattened slopes for the construction of the footings.

PAINT: Use a gray tan top coat color for structural steel.
BRIDGE OFFICE NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 14 calendar days after the new structure has been opened to traffic.

REFERENCES

Supplementary Specifications: Dated
SS-500B Welder Qualification --- Rev 12-7-04
SS-500E Bridge Bearing Correction --- Rev 7-9-04
Standard Plans: Wire Enclosed Riprap and Gablons
511-1

STREAM DATA

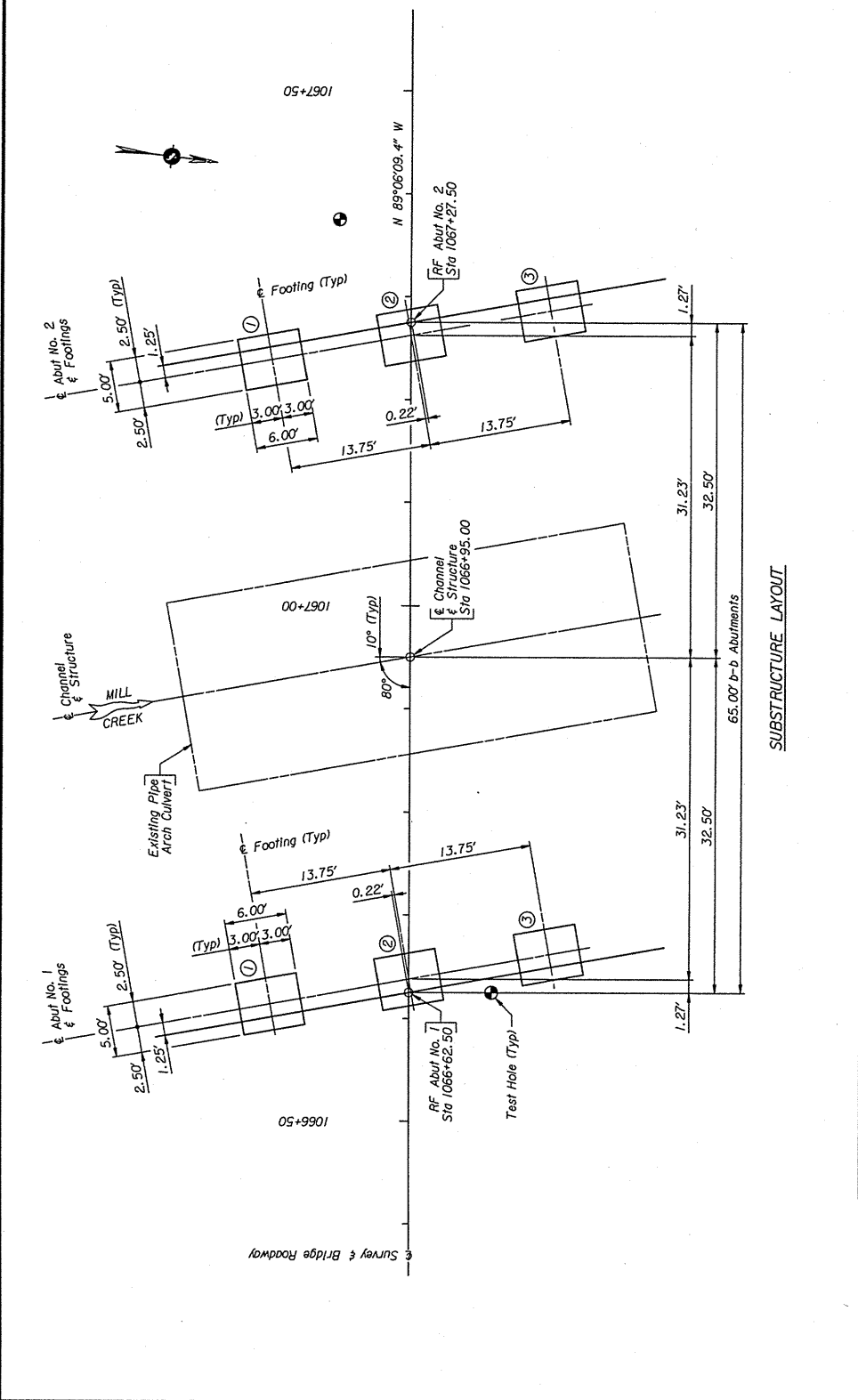
Drainage Area --- 58.6 Sq. Mi
Channel Slope --- 0.02%
Description of Channel Material --- Sandy gravel
Drift Potential --- Trees and logs
Ordinary High Water Elevation --- 7532.0 ft
Headwater Elevation Q25 --- 7534.8 ft
Q100 --- 7536.0 ft
High Water Elevation Q25 --- 7533.4 ft
Q100 --- 7534.2 ft
Constricted Velocity Q25 --- 9.51 fps
Q100 --- 12.23 fps
Design Frequency --- 25 Year
Design Discharge Q25 --- 890 cfs
Review Discharge Q25 --- 1290 cfs
Source of Discharge --- Floodflow Characteristics of Wearing Streams
Method of Analysis --- HEC-RAS and WSP
Flood History --- Unknown

WORKING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM	
GENERAL NOTES	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
2100020	
DESIGN	2100020
DATE	11/1/00
DESIGN SECTION	Q R Stuv
DRWG. NO.	0004
Sheet 2 of 16	

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Section 4.04 – Substructure Layout

Wyo. Proj. 2100020
Sheet Bill of B25 Sheets



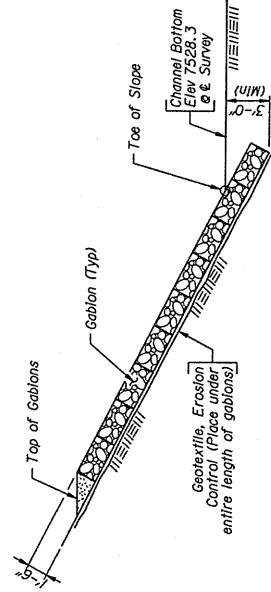
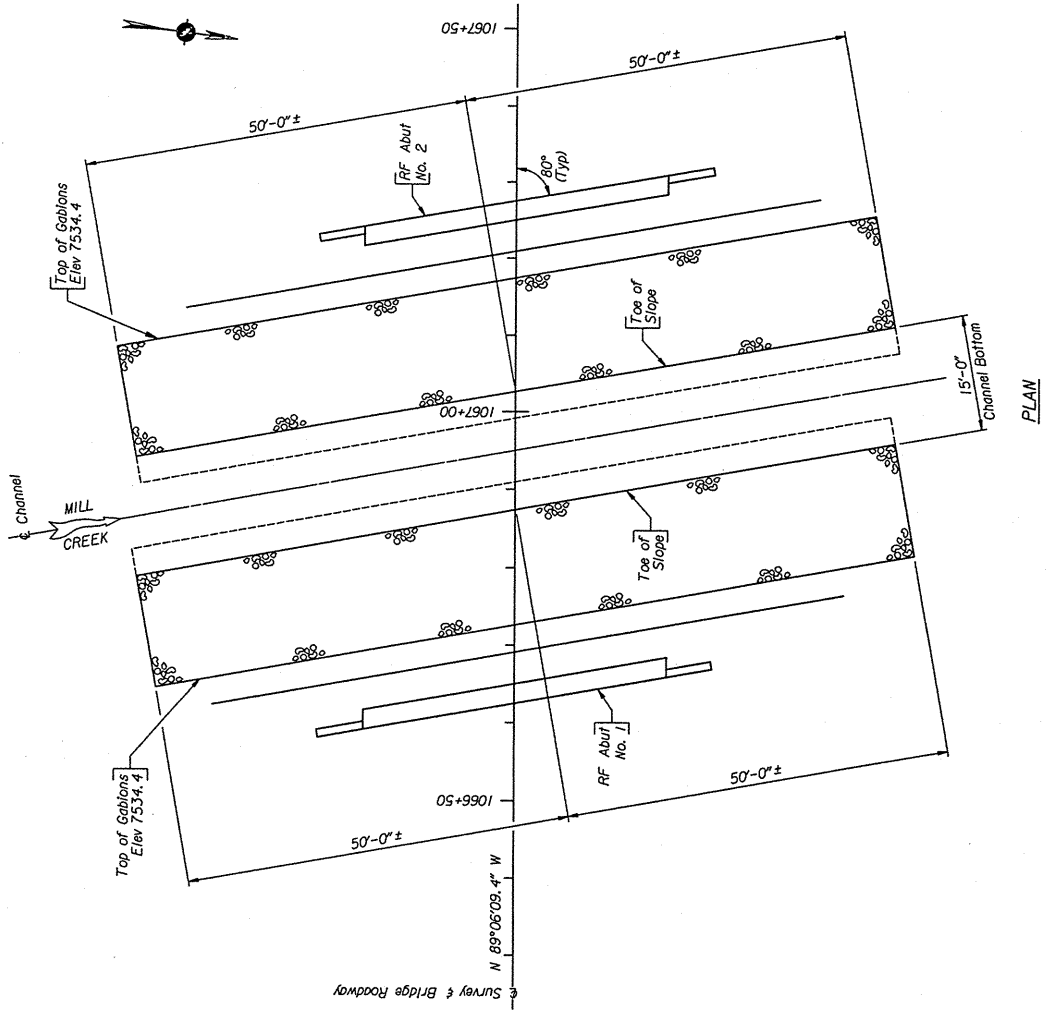
SUBSTRUCTURE DATA	
Location	Bottom of Footing Elevations
	Footing No.
Abut No. 1	① 7524.98
Abut No. 2	② 7524.70
	③ 7524.98

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM	
SUBSTRUCTURE LAYOUT	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
2100020	UI
DESIGN: LLL	Design Section Q R STUV
CHECK: LLL	Draw. No. 0004
DATE: _____	Sheet 4 of 16

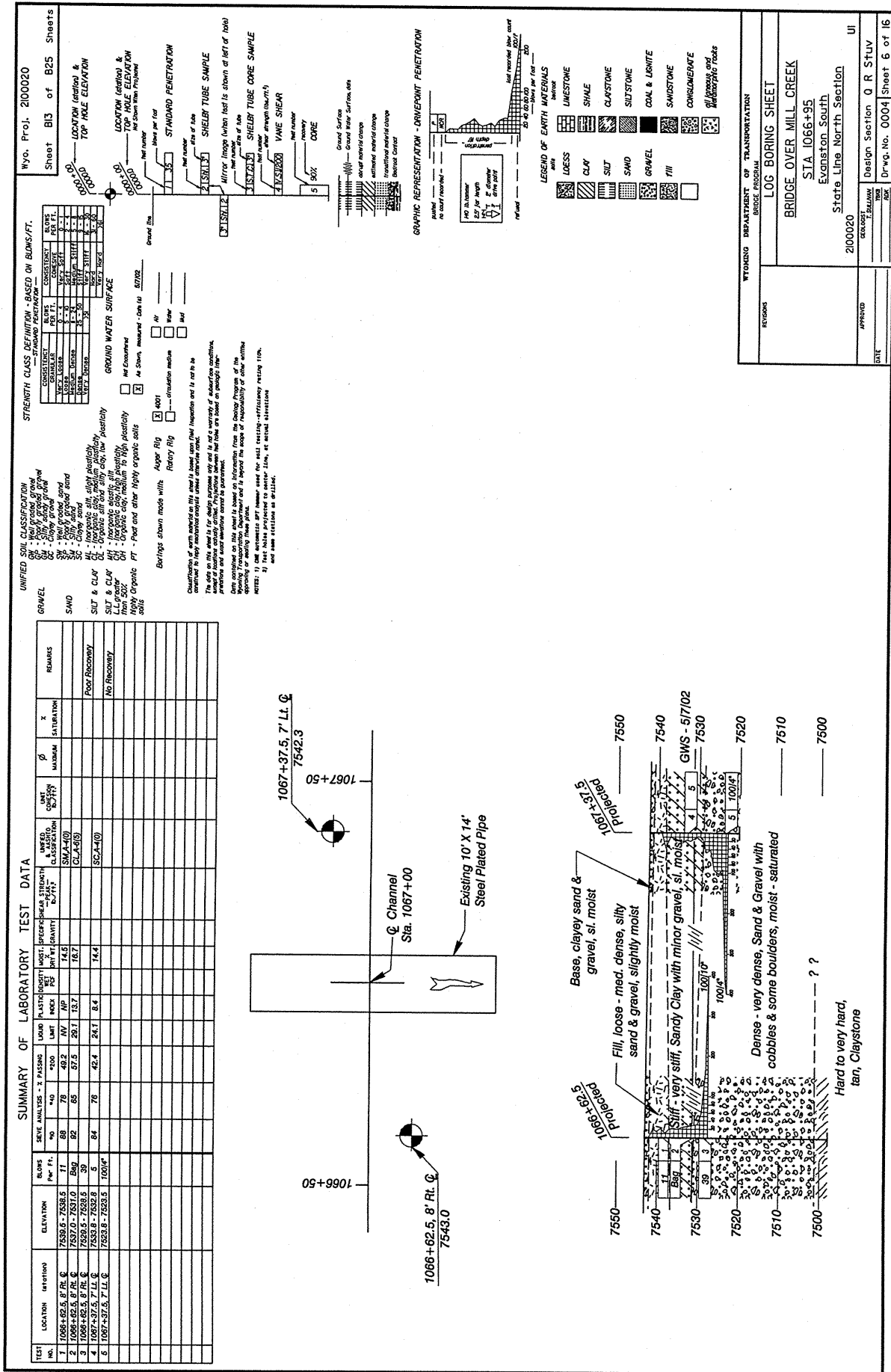
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Section 4.05 - Riprap and Gabions

Wyo. Proj. 2100020
 Sheet B12 of B25 Sheets

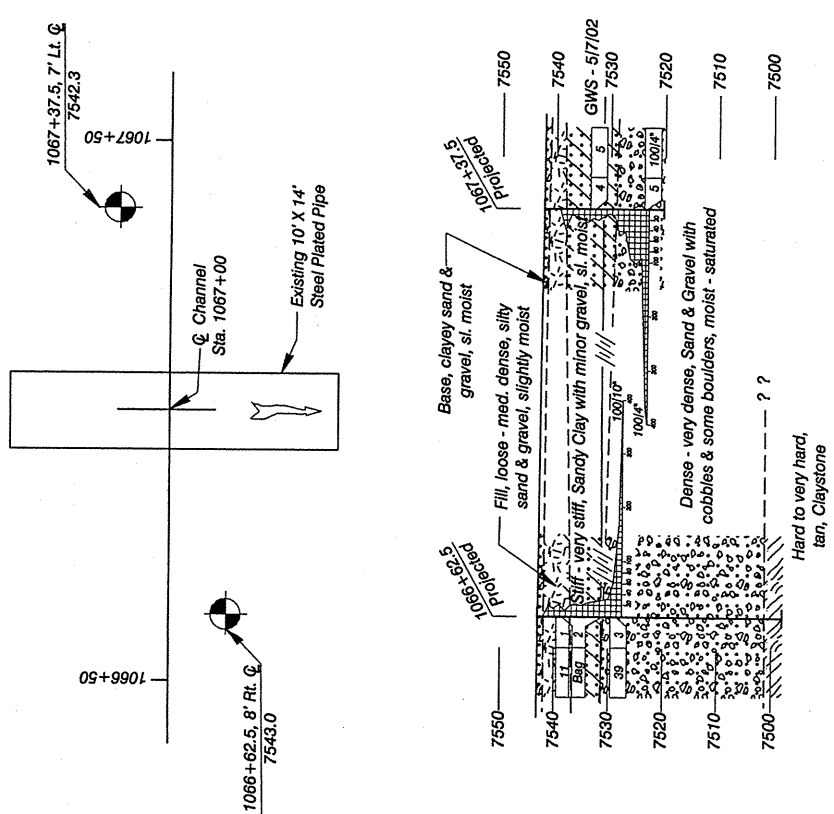


WYOMING DEPARTMENT OF TRANSPORTATION	
BRIDGE PROGRAM	
GABIONS DETAILS	
BRIDGE OVER MILL CREEK	
STA. 1066+95	
Evanston, South	
State Line North Section	
2100020	UI
DESIGN	Design Section Q R STUV
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE

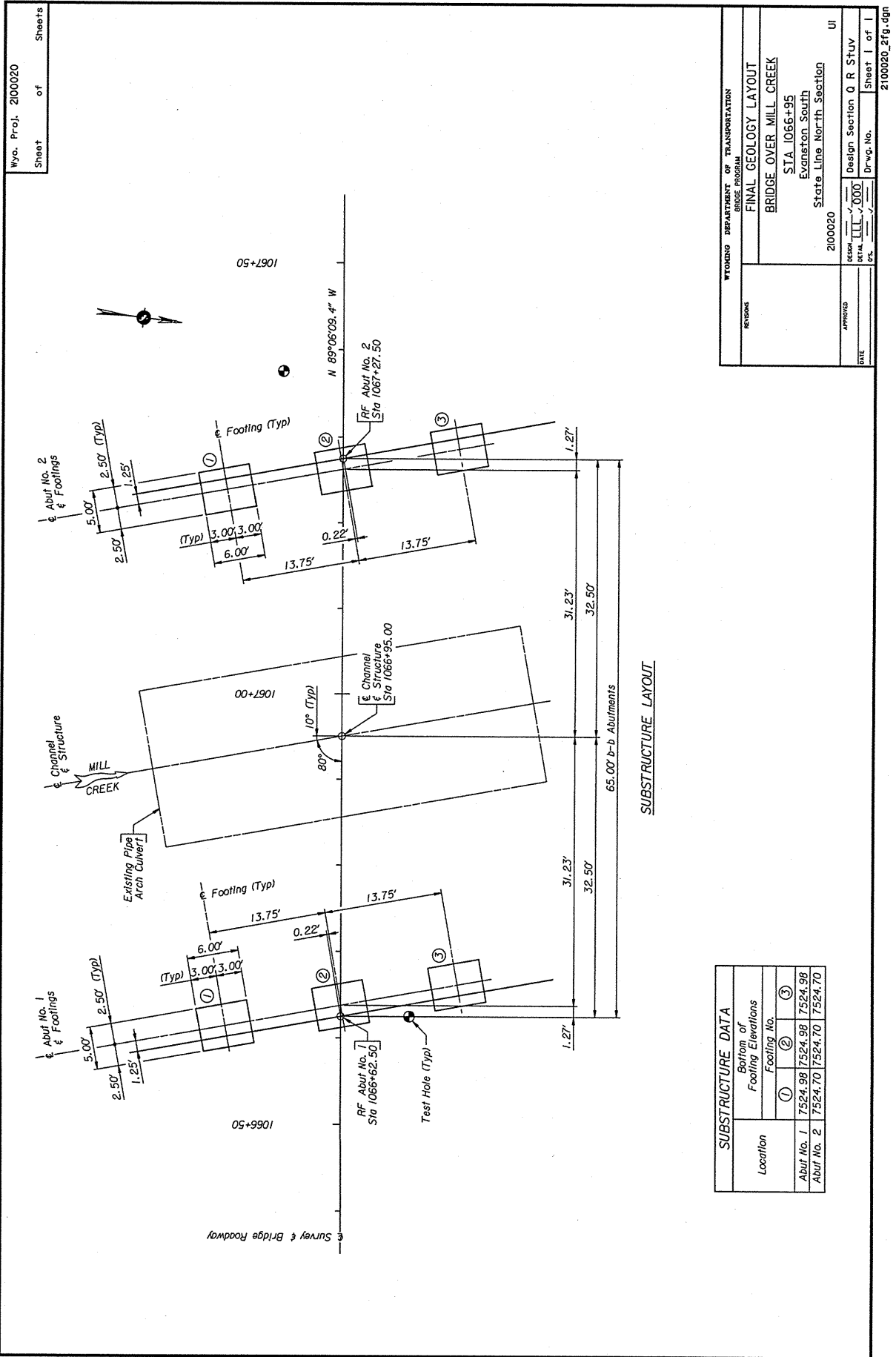


SUMMARY OF LABORATORY TEST DATA

TEST NO.	LOCATION	ELEVATION	BLOWS PER FT.	SEVE ANALYSIS - % PASSING	LIQUID LIMIT	PLASTIC INDEX	SHRINKAGE	UNIT WEIGHT	MOISTURE CONTENT	MAXIMUM SATURATION	REMARKS
1	1068+62.5, 8' RL. Q	7539.5 - 7538.5	11	88	78	49.2	NV	14.8	18.7		
2	1068+62.5, 8' RL. Q	7537.0 - 7531.0	26	82	85	37.5	29.1	13.7	18.7		POOR RECOVERY
3	1068+62.5, 8' RL. Q	7539.5 - 7538.5	59	84	76	42.4	24.1	8.4	14.4		NO RECOVERY
4	1067+37.5, 7' LL. Q	7538.8 - 7535.8	1004								
5	1067+37.5, 7' LL. Q	7538.8 - 7535.8	1004								



Section 4.06 - Geology



SUBSTRUCTURE DATA	
Location	Bottom of Footing Elevations
	Footing No.
Abut. No. 1	①
	②
Abut. No. 2	③
	④

Abut. No. 1	7524.98	7524.98	7524.98
Abut. No. 2	7524.70	7524.70	7524.70

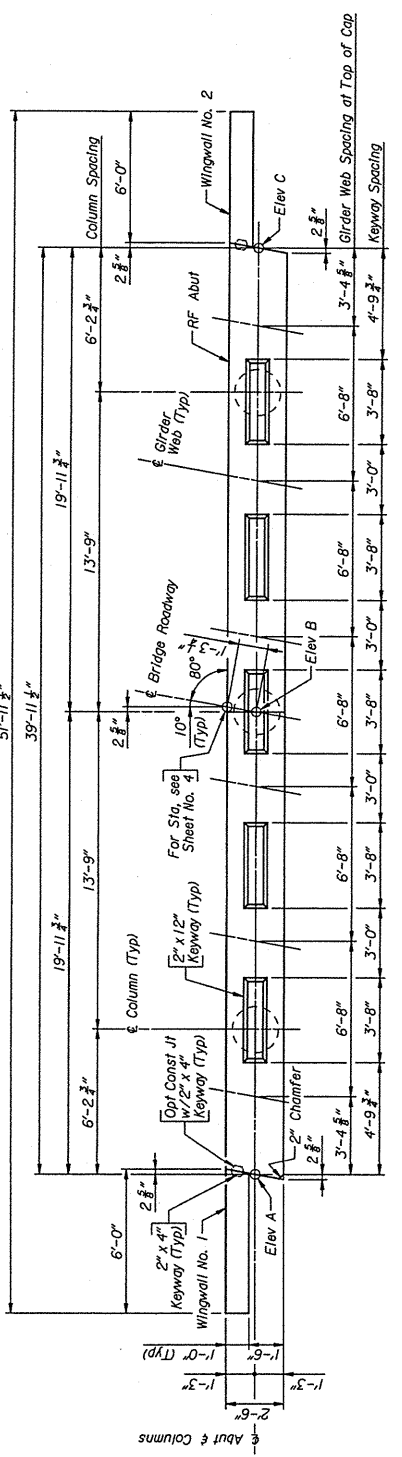
Wyo. Proj. 2100020
Sheet of Sheets

WYOMING DEPARTMENT OF TRANSPORTATION
BRIDGE PROGRAM
FINAL GEOLOGY LAYOUT
BRIDGE OVER MILL CREEK
STA 1066+95
Evanston South
State Line North Section
2100020
Design Section Q R Stuy
Drwg. No. 2100020_2fg.dgn
Sheet 1 of 1

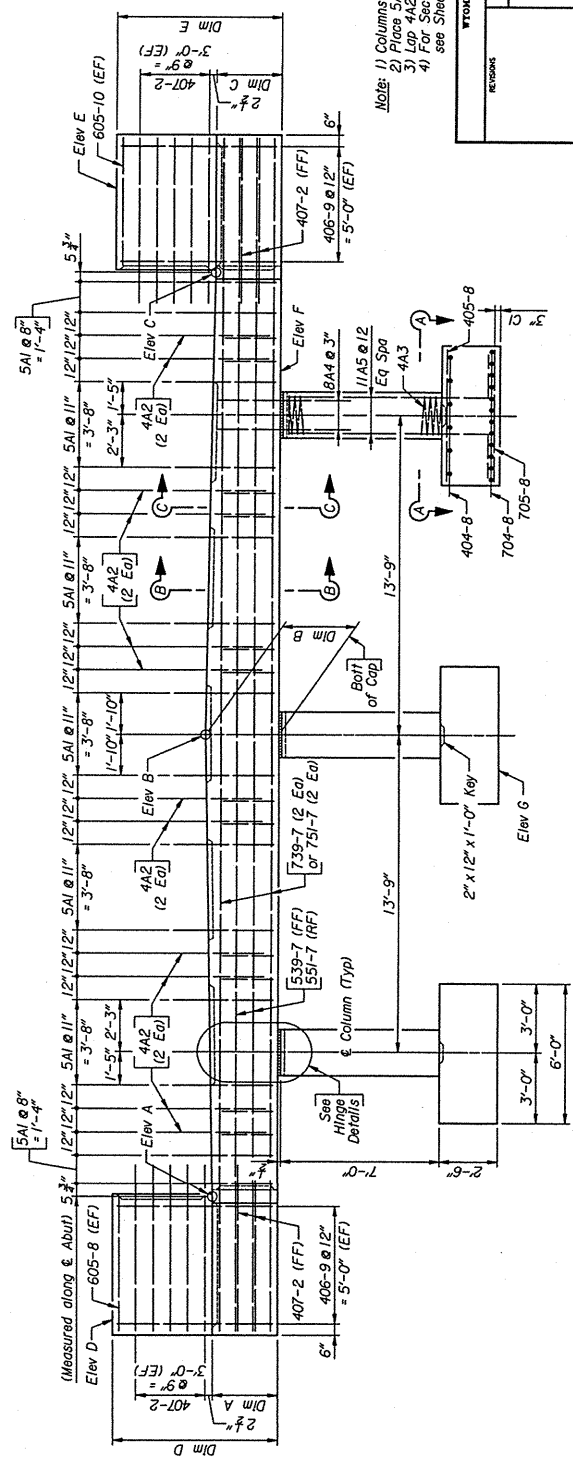
Wyo. Proj. 2100020
Sheet B14 of B25 Sheets

Location	Abut No. 1	Abut No. 2
Elev A	7537.27	7537.02
Elev B	7537.68	7537.40
Elev C	7537.30	7536.99
Elev D	7541.72	7541.47
Elev E	7541.75	7541.44
Elev F	7534.52	7534.24
Dim A	2'-9"	2'-9 3/8"
Dim B	3'-1 1/2"	3'-1 3/8"
Dim C	2'-9 3/8"	2'-9"
Dim D	7'-2 3/8"	7'-2 1/8"
Dim E	7'-2 3/8"	7'-2 3/8"

Location	Abut No. 1	Abut No. 2
Elev A	7537.44	7537.19
Elev B	7537.84	7537.56
Elev C	7537.47	7537.16
Elev D	7541.72	7541.47
Elev E	7541.75	7541.44
Elev F	7534.52	7534.24
Dim A	2'-11 1/2"	2'-11 3/8"
Dim B	3'-1 1/2"	3'-1 3/8"
Dim C	2'-11 3/8"	2'-11"
Dim D	7'-2 3/8"	7'-2 1/8"
Dim E	7'-2 3/8"	7'-2 3/8"



PLAN



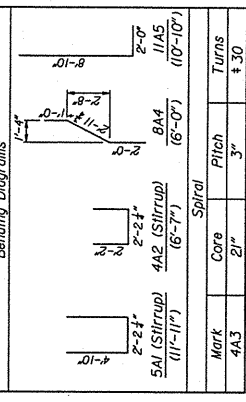
ELEVATION
(Looking back station - Abut No. 1,
looking ahead station - Abut No. 2)

- 1) Columns and footings on each abutment are identical.
- 2) Place 5A1 and 4A2 bars parallel with & Girders.
- 3) Lap 4A2 bars 1'-5" minimum.
- 4) For Sections A-A, B-B, and C-C, and Hinge Details, see Sheet No. 6.

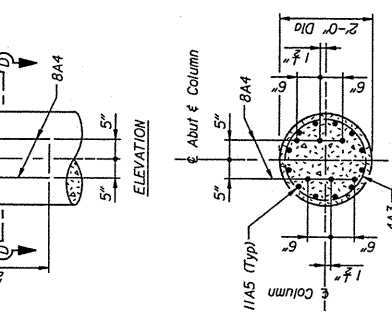
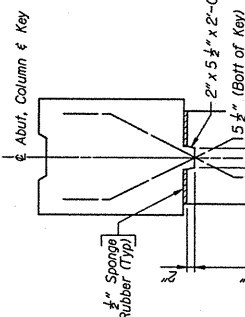
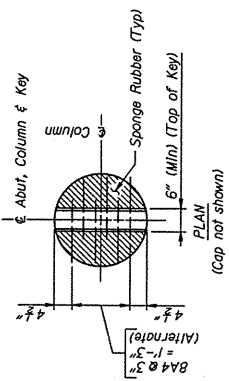
WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE OVER MILL CREEK STA 1066+95 Evanston South State Line North Section 2100020	UI
DESIGNED BY: NIN	Checked by: R Stuv
DRAWN BY: JHH	Design Section Q R Stuv
DATE:	Dr-wg. No. 0004 Sheet 7 of 16

Wyo. Proj. 2100020
 Sheet B15 of B25 Sheets

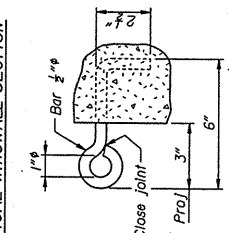
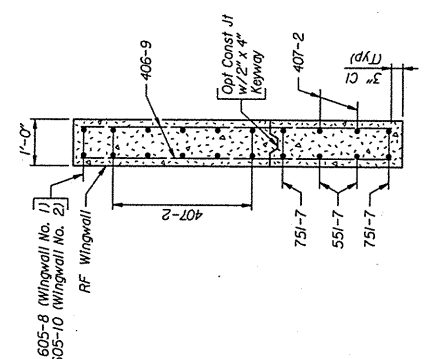
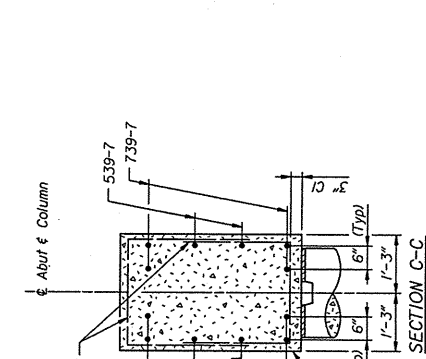
BILL OF REINFORCEMENT		
Location	Mark	
Cap	4A2	Number Required Per Abutment
	5A1	24
	539-7	2
	551-7	2
Wingwalls	751-7	4
	751-7	4
	405-9	1427 LB
	407-2	24
Footings & Columns	605-8	2
	605-10	2
	4A3	239 LB
	404-8	3
	405-8	18
	704-8	15
	705-8	36
	8A4	15
	8A4	18
	11A5	36
Weight		3321 LB



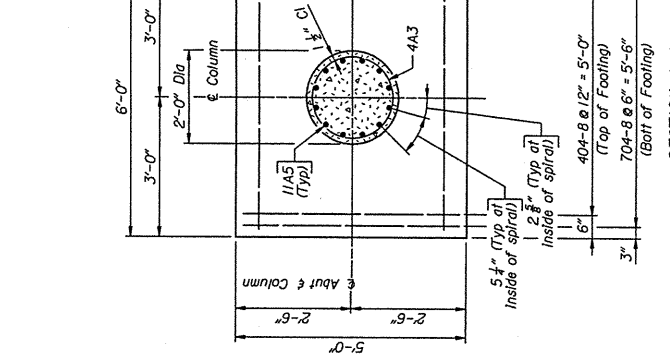
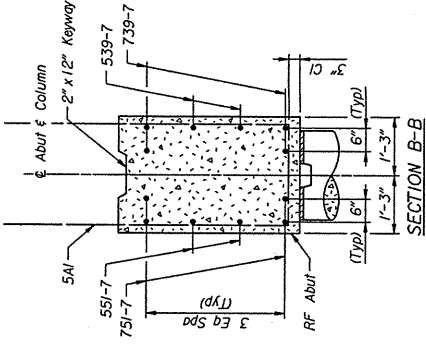
Note: 1) Ensure the reinforcing steel fabricator prefixes bar marks with Abutment No. 1 with numeral 1 and at Abutment No. 2 with numeral 2.
 *2) The number of turns includes 1/2 turns at the top and bottom.
 3) Place 11A5 bars in columns as shown to not interfere with placement of 8A4 bars.
 4) The estimated quantity of class B concrete per abutment is 24.9 CY for Alternate 1 and 25.5 CY for Alternate 2.
 5) For locations of Sections A-A, B-B, and C-C, see Sheet No. 7.



HINGE DETAILS

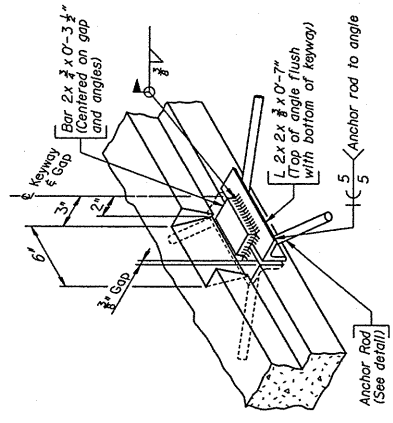


EYEBOLT DETAIL
 (1/6 req'd for securing fence)

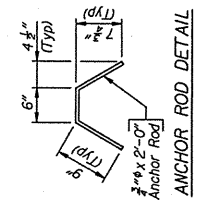


Section 4.09 – Superstructure

Wyo. Proj. 2100020
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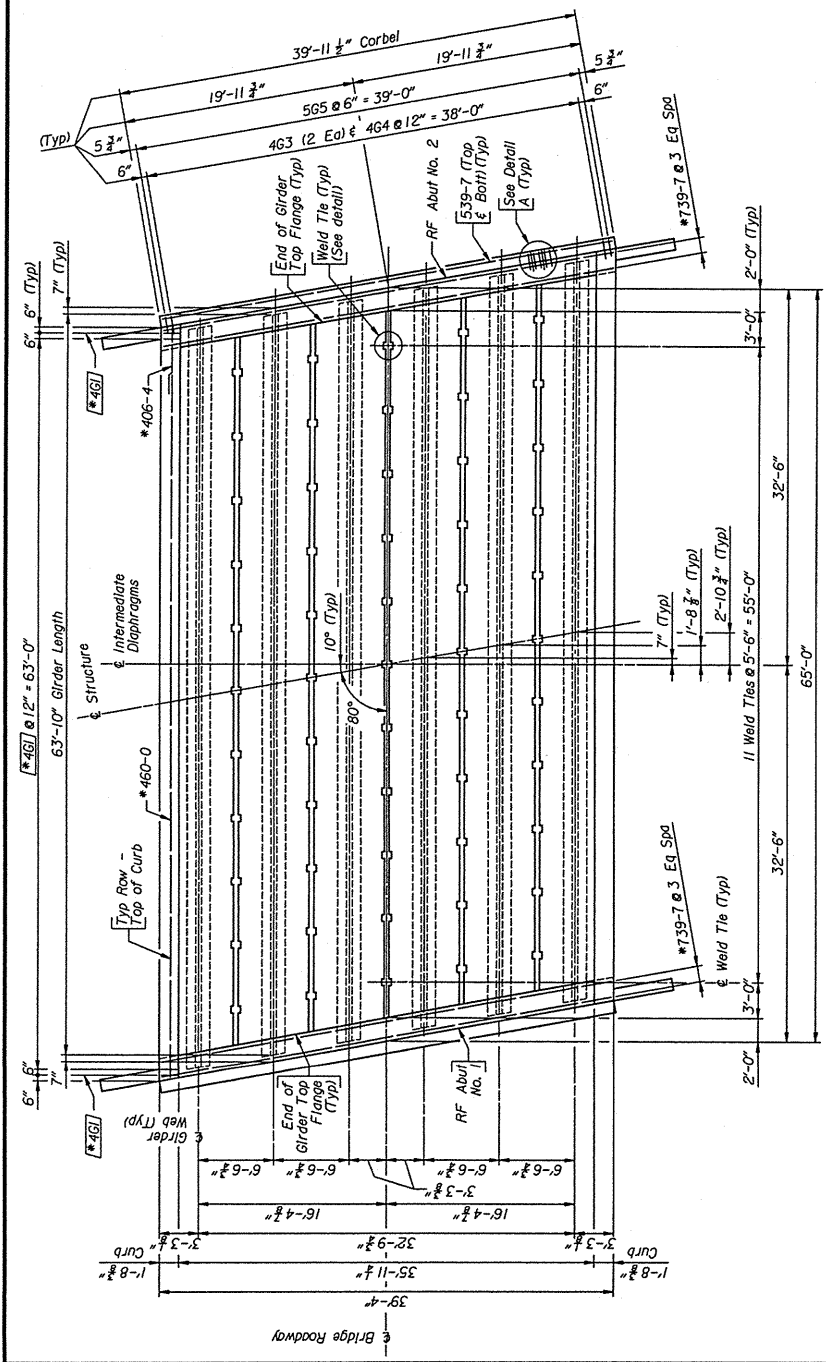


WELD TIE DETAIL
 (Backer rod, nonshrink grout, and near girder flange not shown)
 Weld tie assembly and flange blockout is symmetrical

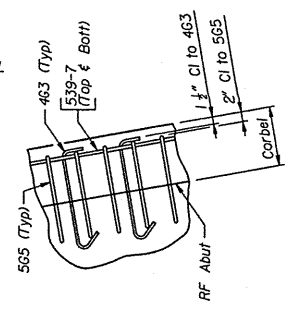


ANCHOR ROD DETAIL

Note: For Bridge Rolling Details, see Sheets No. 13 and 14.



PLAN



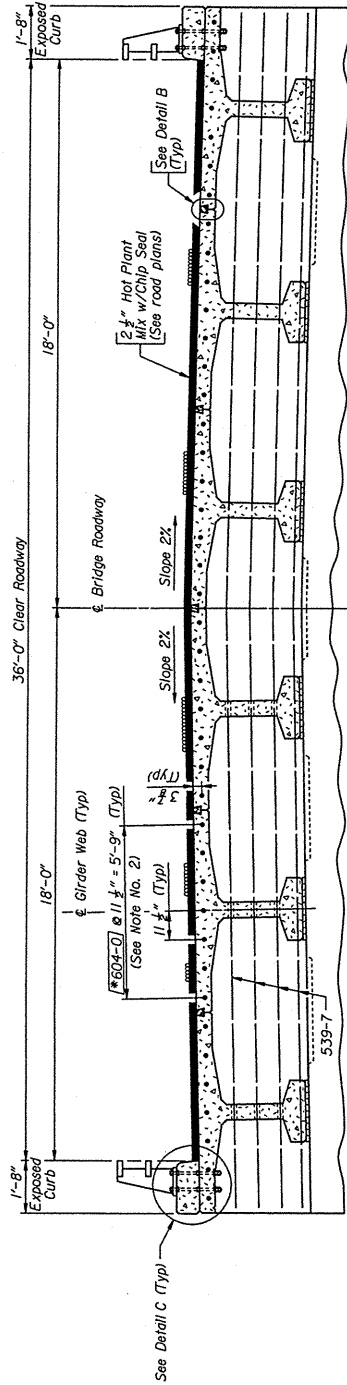
DETAIL A

(Showing corbel reinforcing steel placement)
 (463 shown, 464 similar)

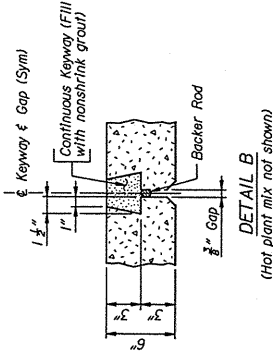
WYOMING DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SUPERSTRUCTURE DETAILS	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
2100020	UI
DESIGNER: 000 JNN	Design Section Q R STUV
DRAWN: LLL YJH	Dr-wg. No. 0004
DATE: 11-1-98	Sheet 9 of 16

2100020_2asst.dgn

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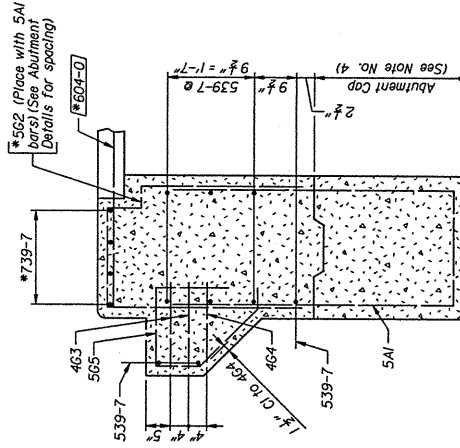


SECTION AT END DIAPHRAGM

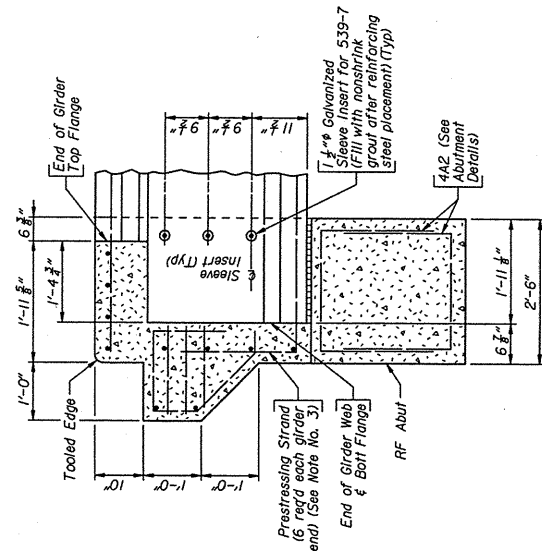


DETAIL B
 (Hot plant mix not shown)

- Note: 1) Ensure reinforcing steel in girder top flange is coated.
 2) Ensure #504 bars extend 1'-9" from end of girder top flange.
 3) Ensure prestressing strands are evenly spaced in bottom layer and extend 2'-0" from each end of girder. Flange bend as shown.
 4) Ensure abutment cap concrete attains 100% of ultimate design strength by cylinder tests before placing girders.
 5) Install backer rod continuous between abutments.
 6) For Detail C, see Sheet No. 12.
 7) For Abutment Details, see Sheets No. 7 and 8.



SECTION BETWEEN GIRDER WEBS
 (Showing typical reinforcing steel)

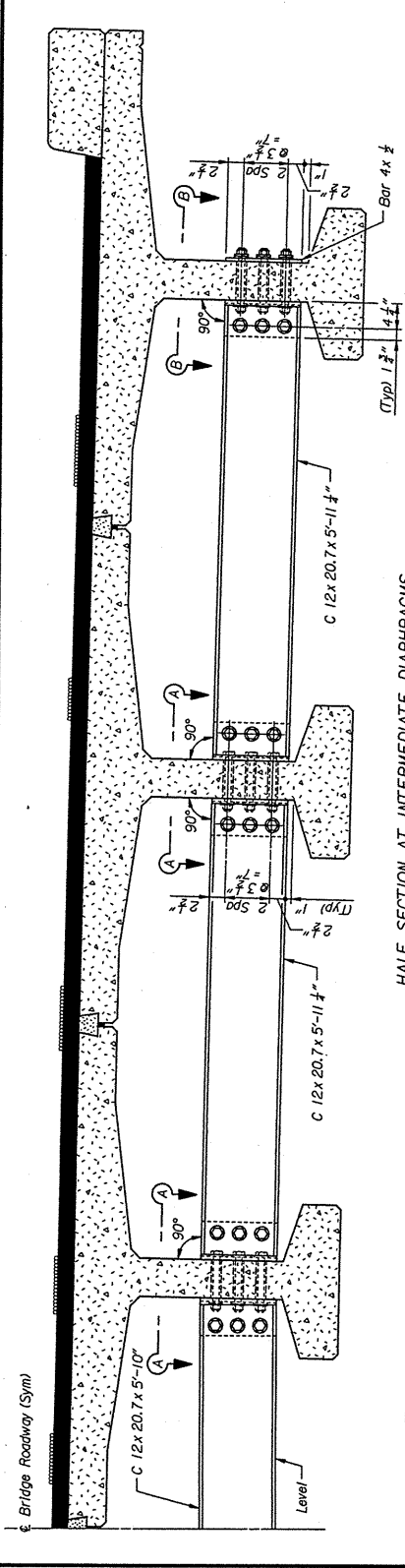


SECTION AT GIRDER WEB
 (Showing typical dimensions)

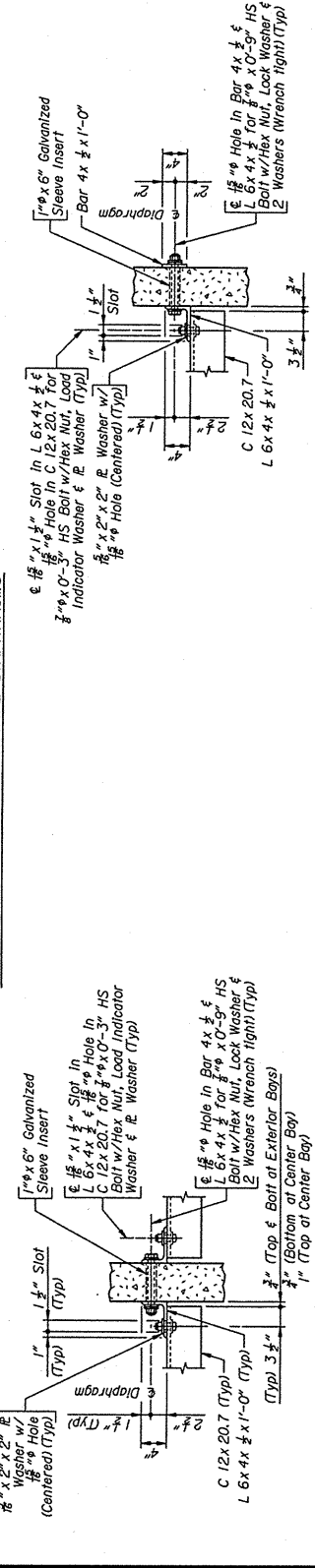
TYPICAL SECTIONS THRU END DIAPHRAGM
 (Dimensions are perpendicular to RF Abut)
 (Hot plant mix not shown)

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM	
SUPERSTRUCTURE DETAILS	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
2100020	UI
DESIGN: 000-ANN	Design Section Q R Stuv
DETAIL: 000-J-000	Drwg. No. 0004
DATE: 11.11.04	Sheet 10 of 16

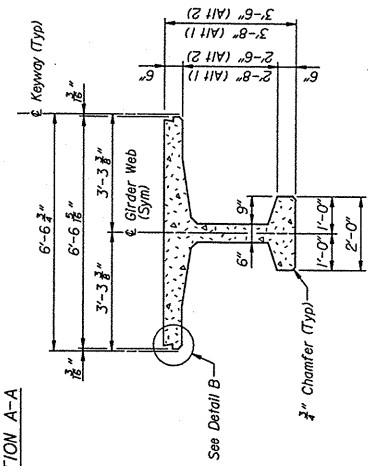
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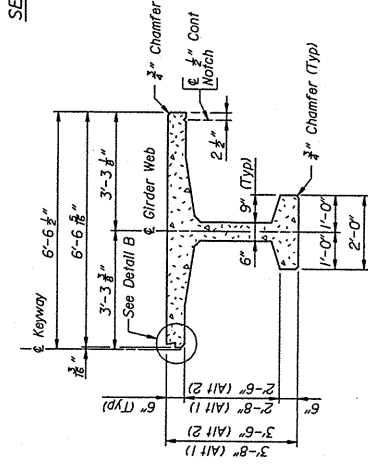
HALF SECTION AT INTERMEDIATE DIAPHRAGMS



SECTION A-A



PRESTRESSED PRECAST INTERIOR GIRDER SECTION



SECTION B-B

PRESTRESSED PRECAST EXTERIOR GIRDER SECTION

Note: For Detail B, see Sheet No. 10.

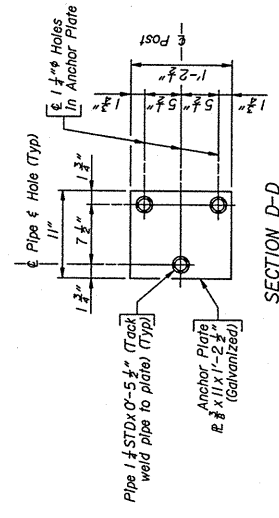
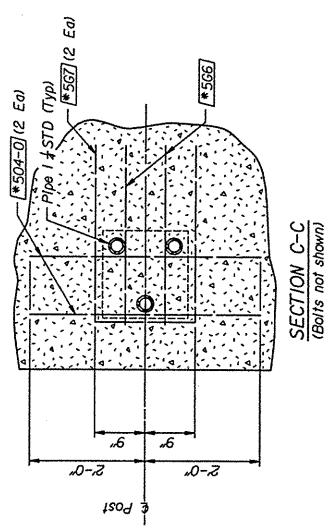
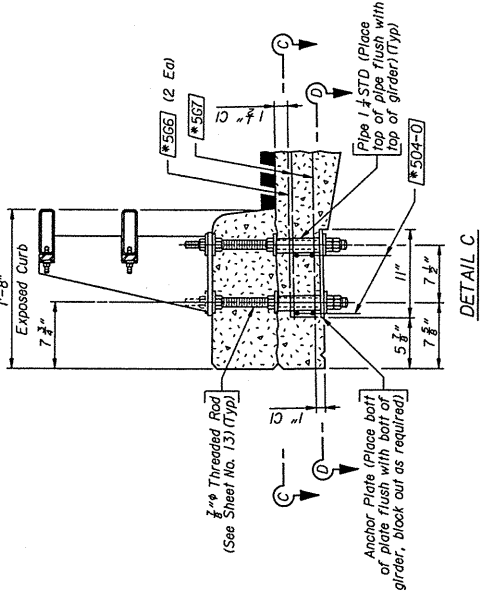
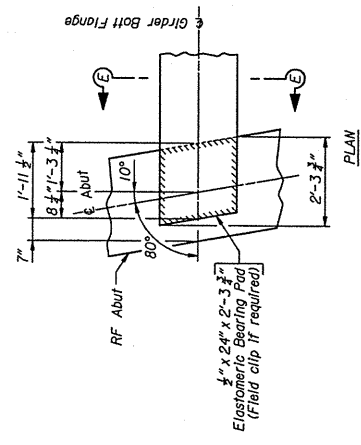
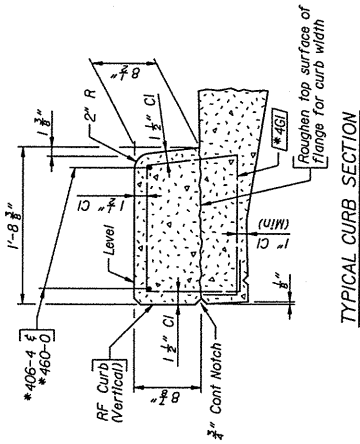
WYOMING DEPARTMENT OF TRANSPORTATION	
BRIDGE PROGRAM	
SUPERSTRUCTURE DETAILS	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston South	
State Line North Section	
2100020	UI
DESIGN: ODD, ANN	Design Section Q R Stuv
DETAIL: LLL, JDD	
CHECK: LLL, JDD	
DATE: _____	Dr'wg. No. 0004 Sheet II of 16

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BILL OF REINFORCEMENT		Bending Diagrams	
Location	Mark	Number Required	
Curbs	*406-4	4	
	*460-0	4	
	*Weight	*178 LB	
Girders	*463	132	
	*565	28	
	*567	28	
	*504-0	56	
	*Weight	*936 LB	
End Diaphragms	464	78	
	*562	31	
	565	158	
	539-7	18	
	*Weight	*936 LB	
		1897 LB	

Note: 1) Reinforcing steel shown as [*463] is not included in the quantity of reinforcing steel and will be provided by the fabricator.
2) Ensure girder manufacturer provides steel reinforcement prefixes superstructure bar marks with numerical 3.
3) The estimated quantity of class B concrete for each end diaphragm is 14.5 CY for Alternate 1 and 13.9 CY for Alternate 2. The estimated quantity of class B concrete for curbs is 5.7 CY.
4) For location of Detail C, see Sheet No. 10.



WYOMING DEPARTMENT OF TRANSPORTATION	
BRIDGE PROGRAM	
SUPERSTRUCTURE DETAILS	
BRIDGE OVER MILL CREEK	
STA 1066+95	
Evanston, South	
State Line North Section	
2100020	UI
DESIGN	MMN
CHECK	JRH
DATE	11-11-11
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