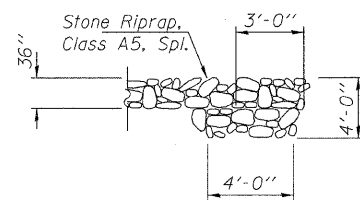


**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)



**SECTION A-A**

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	540.9	533.0	526.3	540.9

**WATERWAY INFORMATION**

Drainage Area = 57.5 Sq. Mi. Existing Low Grade Elev. 558.4 @ Sta. 20+50  
Proposed Low Grade Elev. 558.4 @ Sta. 20+50

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
	10	3780	1060	1060	550.98	0.62	0.62	551.60	551.60
Design	30	5260	1220	1220	552.28	0.43	0.43	552.71	552.71
Base	100	6930	1350	1350	553.31	0.28	0.28	553.59	553.59
Max. Calc.	500	9200	1500	1500	554.47	0.41	0.41	554.88	554.88

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 1/8"φ, holes 1/16"φ, unless otherwise noted.  
 Calculated weight of Structural Steel = 87,170 lbs.  
 All structural steel shall be AASHTO M 270 Grade 50W.  
 No field welding is permitted except as specified in the contract documents.  
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.  
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.  
 All structural steel and exposed surfaces of bearings within a distance of 7 ft. each way from the deck joints shall be painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".  
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 The locations for Structural Repair of Concrete shall be determined by the Engineer. Possible locations include the pier and abutment walls and bearing seats and the abutment backwall face.

STONY CREEK  
 RE-BUILT 201 BY  
 VERMILION COUNTY  
 SEC. 09-00171-00-BR  
 STA. 17+50.00  
 STR. NO. 092-0085  
 LOADING HL-93

**NAME PLATE**  
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5, Special	Ton			1,350
Channel Excavation	Cu. Yd.			500
Removal of Existing Superstructures	Each			1
Concrete Superstructure	Cu. Yd.	115.1		115.1
Concrete Structures	Cu. Yd.		1.8	1.8
Concrete Removal	Cu. Yd.		0.4	0.4
Bridge Deck Grooving	Sq. Yd.	417		417
Protective Coat	Sq. Yd.	486		486
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,826		2,826
Reinforcement Bars, Epoxy Coated	Pound	32,010	240	32,250
Bar Splicers	Each	457	4	461
Steel Railing, Type SM	Foot	272		272
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each		18	18
Anchor Bolts, 1"	Each		48	48
Debris Removal	L. Sum			1
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.		32	32
Performed Joint Strip Seal	Foot	60		60