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__ DATE : <u>09/2019</u> M.G.SHAIKH DRAWN BY : _ H.A. LOCKLEAR _ DATE : <u>09/2019</u> CHECKED BY : ___ DESIGN ENGINEER OF RECORD: <u>H.A.LOCKLEAR</u> DATE : <u>08/2019</u>

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PING DISCHARGE	32,500 CFS.
CY OF OVERTOPPING FLOOD —	•
PING FLOOD ELEVATION	- 531.4 FT.

ILL OF MATERIAL								
PERMANENT EEL CASING OR 3'-6″Ø ILLED PIER	SID INSPECTION	SPT TESTING	CSL TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL
LIN.FT.	EA.	EA.	EA.	SQ.FT.	SQ.FT.	CU.YDS.	LUMP SUM	LBS.
				9,744	10,462		LUMP SUM	
						55 . 3		6,150
57	3	3				47.2		11,094
						55 . 9		6,155
57	3	3	1	9,744	10,462	158.4	LUMP SUM	23,399

OTAL BILL OF MATERIAL								
PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES	HP 14 X 73 STEEL PILES		CONCRETE BARRIER RAIL	CLASS II FOR BEA		ELASTOMERIC BEARINGS		
EA.	NO.	LIN.FT.	LIN.FT.	TONS	SQ. YDS.	LUMP SUM		
			412.4			LUMP SUM		
7	7	210		410	455			
7	7	175		404	449			
14	14	385	412.4	814	904	LUMP SUM		
	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES EA. 7	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES EA. NO. 7 7 7 7 7	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILESHP 14 X 73 STEEL PILESEA.NO.LIN.FT.7721077175	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILESHP 14 X 73 STEEL PILESCONCRETE BARRIER RAILEA.NO.LIN.FT.LIN.FT.77210412.477175175	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILESHP 14 X 73 STEEL PILESCONCRETE BARRIER RAILRIP RAP CLASS II (2'-0" THICK)EA.NO.LIN.FT.LIN.FT.TONS77210412.441077175404	EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILESHP 14 X 73 STEEL PILESCONCRETE BARRIER RAILRIP RAP CLASS II (2'-0"THICK)GEOTEXTILE FOR DRAINAGEEA.NO.LIN.FT.LIN.FT.TONSSO.YDS.7721041045577175404449		

LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

THE EXISTING STRUCTURE CONSISTING OF 4 SPANS 1 @ 47'-7", 1 @ 47'-1", 1 @ 47'-11" AND 1 @ 47'-3" WITH REINFORCED CONCRETE FLOOR ON 5 LINES OF PRESTRESSED CONCRETE GIRDERS @ VARIOUS CTS. AND A CLEAR ROADWAY WIDTH OF 28'-2" ON A SUBSTRUCTURE CONSISTING OF REINFORCED CONCRETE CAPS AND FULL HIGHT ABUTMENTS AND LOCATED AT THE PROPOSED STRUCTURE LOCATION SHALL BE REMOVED.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18-EVALUATING SCOUR AT BRIDGES."

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROVISIONS.

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE

FOR GROUT FOR STRUCTURES, SEE SPECIAL

FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY ACCESS. SEE SPECIAL PROVISIONS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE CLOSE PROXIMITY OF TEMPORARY SHORING TO THE PROPOSED END BENTS. SHORING MUST BE INSTALLED ACCURATELY IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE CAUSEWAY, THE CLASS II RIP RAP USED IN THE CAUSEWAY MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS AT STATION 21+85.00 -L-.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS.NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

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