	REMOVAL OF EXISTING STRUCTURE	ASBESTOS ASSESSMENT	PDA TESTING	PDA ESTING UNCLASSIFIED STRUCTURE EXCAVATION		BRIDGE APPROACH SLABS	REINFORCING STEEL	PILE DRIVING EQUIP.SETUP FOR HP 12 X 53 STEEL PILES	PILE DRIVING EQUIP. SETUP FOR HP 14 X 89 GALVANIZED STEEL PILES	
	LS	LS	EA	LS	CY	LS	LB	EA	EA	
SUPERSTRUCTURE						LS				
END BENT 1				LS	24.3		2,937	7		
BENT 1									8	
BENT 2									8	
END BENT 2				LS	24.3		2,937	7		
TOTAL	LS	LS	1	LS	48.6	LS	5,874	14	16	

TOTAL BILL OF MATERIAL														
	HP 14 X 89 GALVANIZED STEEL PILES				STEEL PILE POINTS	S PREDRILLING PILE VERTICAL RIP RAP GEOTES FOR PILES REDRIVES BARRIER RAIL (2'-O"THICK) DRAIN		GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0"X 1'-9" PRESTRESSED CONCRETE CORED SLABS		3'-0"X 2'-6" PRESTRESSED CONCRETE BENT CAPS		
	NO.	LF	NO.	LF	EA	LF	EA	LF	TON	SY	LS	NO.	LF	LF
SUPERSTRUCTURE								270.75			LS	36	1620.00	
END BENT 1			7	140	7		4		90	100				
BENT 1	8	400			8	168	4							38.33
BENT 2	8	400			8	184	4							38.33
END BENT 2			7	105	7		4		120	135				
TOTAL	16	800	14	245	30	352	16	270.75	210	235	LS	36	1620.00	76.66

$\hat{c}$	DRAWN BY:	S.D. COOPER		DATE:	2-20
	CHECKED BY:	J.A. BATTS		DATE:	2-20
V	DESIGN ENGI	NEER OF RECORD: _	J.A. BATTS	DATE:	2-20

## FOUNDATION NOTES:

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 65 TONS PER PILE AND 71 TONS PER PILE, RESPECTIVELY. PILES AT BENT 1 AND BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE

OF 100 TONS PER PILE.

DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 110 TONS PER PILE AND 120 TONS PER PILE, RESPECTIVELY. DRIVE PILES AT BENT 1 AND BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR SCOUR.

INSTALL PILES AT BENT 1 AND BENT 2 TO A TIP ELEVATION NO HIGHER THAN -10 FT.

STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT END BENT 1, BENT 1, BENT 2 AND END BENT 2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

THE SCOUR CRITICAL ELEVATION FOR BENT 1 AND BENT 2 IS ELEVATION 12.5 FT. AND 13.5 FT., RESPECTIVELY. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POŚSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING.FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PREDRILLING THROUGH HARD GRAY LIMESTONE FOR PILES IS REQUIRED AT BENT 1 AND BENT 2. PREDRILL PILE LOCATIONS TO AN ELEVATION NO LOWER THAN 6.5 FT. AND 3.5 FT., RESPECTIVELY, WITH EQUIPMENT THAT WILL RESULT IN A MAXIMUM PREDRILLING DIAMETER OF 20". FOR PREDRILLING FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

FOR INTERIOR BENTS 1 AND 2, ONLY PARTIAL GALVANIZING OF THE PILES IS REQUIRED. SEE INTERIOR BENT SHEETS FOR REQUIRED GALVANIZED LENGTHS. PAYMENT FOR PARTIALLY GALVANIZED PILES WILL BE MADE UNDER THE CONTRACT UNIT PRICE FOR GALVANIZED STEEL PILES.

PLANS PREPARED



DOCUME UNLESS /

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C-2521	2/20/2020		REVISION		DATE	SHEET NO. S-4			
	NSIDERED FINAL JRES COMPLETED	NO. BY: 1 2	DATE: NO. 3 4	BY:	DATE:	TOTAL SHEETS 26			