

REVISIONS AND CORRECTIONS

APPROVED

DRAWN BY: R.S. HAUPT NOV. 1960

TRACED BY: R.S. HAUPT NOV. 1960

CHECKED BY: A.H. SMALLEY NOV. 1960

CORRECT: Nov 21 1960 *[Signature]*
BRIDGE ENGINEER

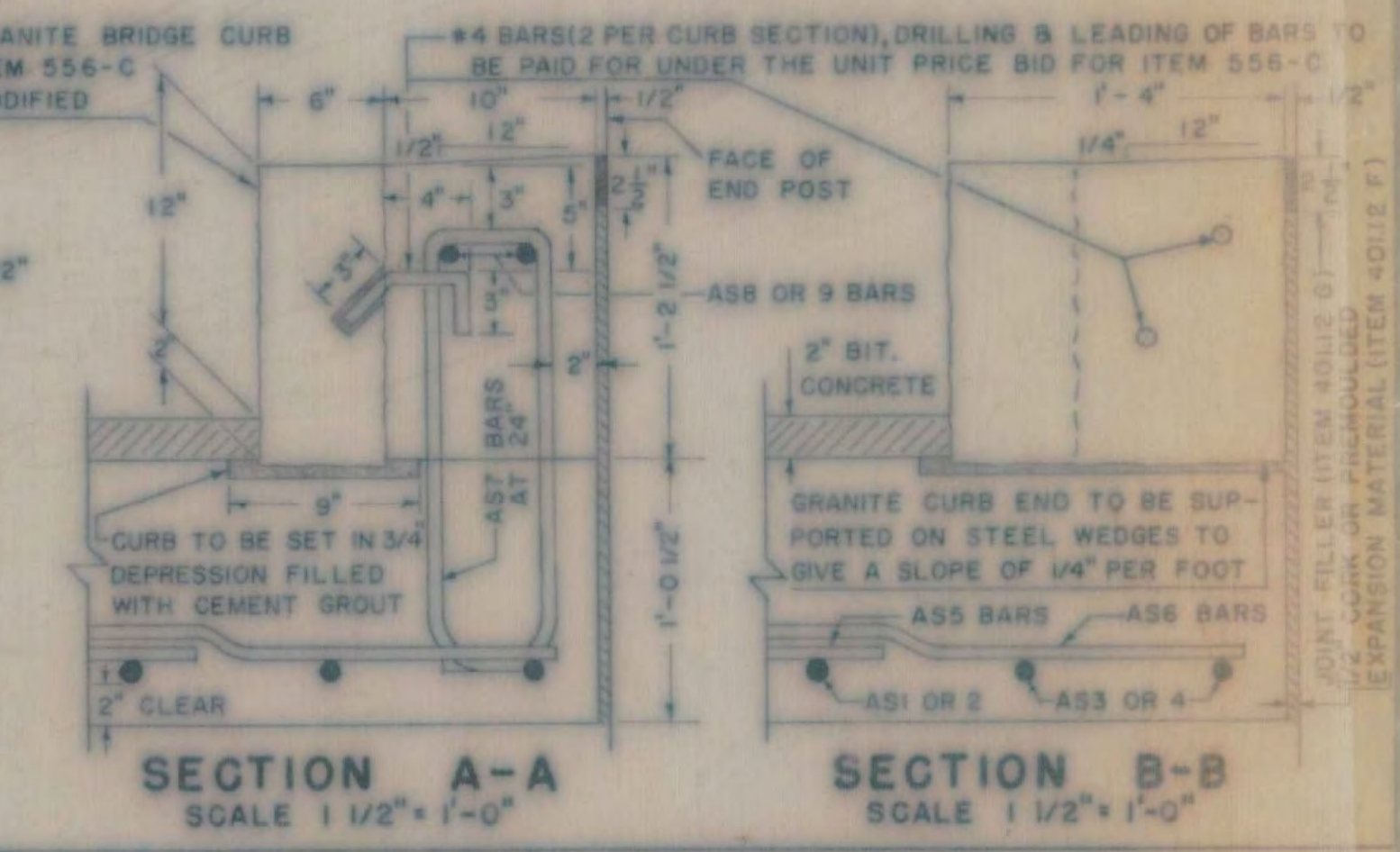
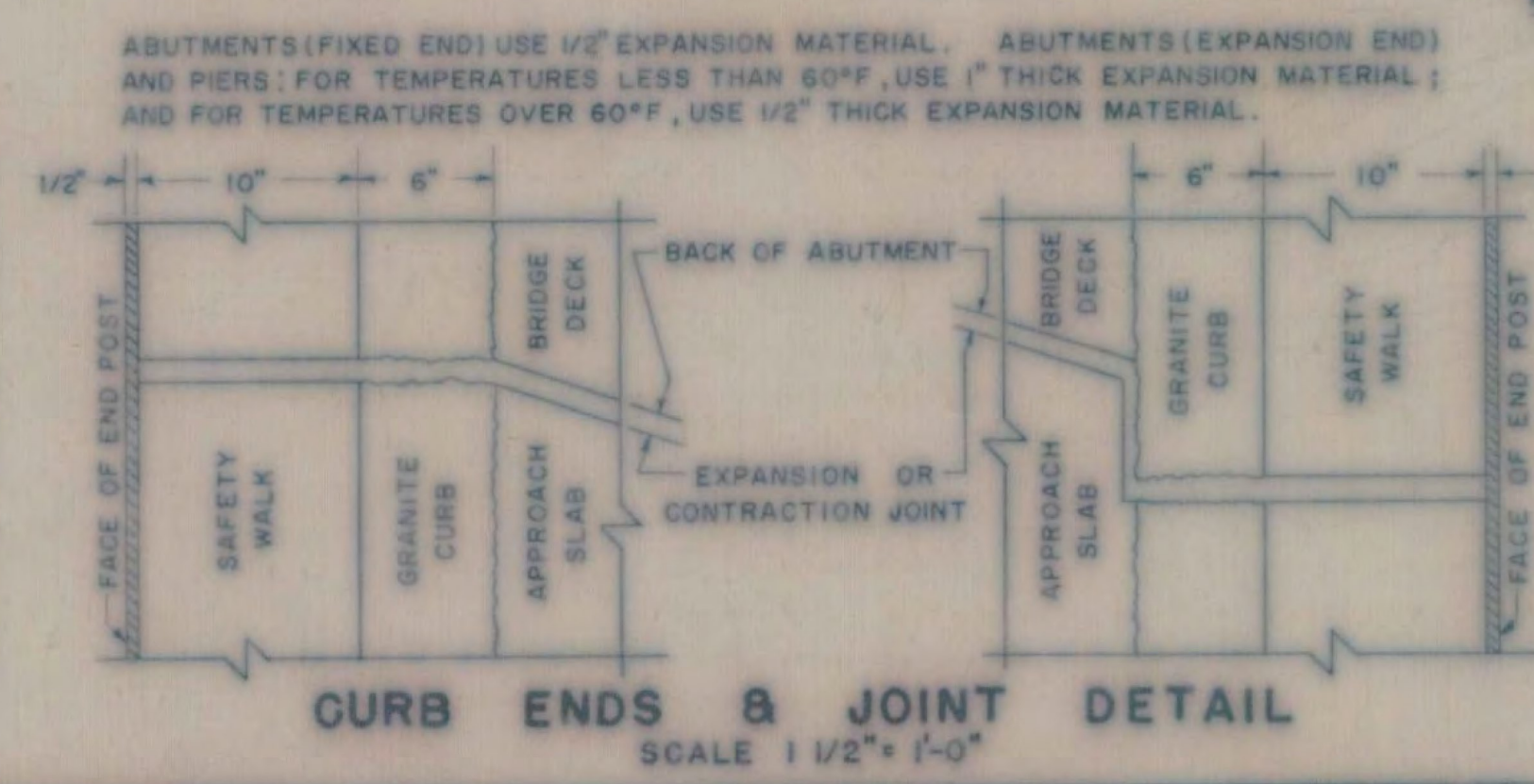
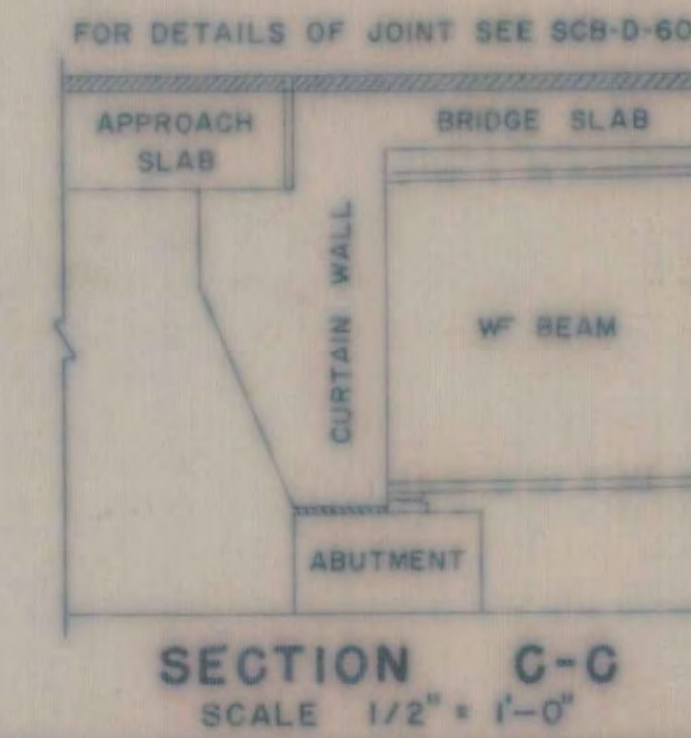
APPROVED: Nov 22 1960 *[Signature]*
CHIEF ENGINEER

DETAILS OF APPROACH SLAB
FOR 38 FOOT BRIDGE
TO BE USED FOR BRIDGE AT STATION 1907+70
LOCATION INTERSTATE OVER MUDDY BROOK (NORTHBOUND ROADWAY)
APPROACH SLAB NO. 4

30' ROADWAY					38' ROADWAY					42' ROADWAY					44' ROADWAY					ROADWAY															
NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS						
SQUARE OR SKEWED																																			
2	10		AS3	STR.		2	10	7-0	AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.	
2	10		AS4	STR.		2	10	7-0	AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.	
5	3'-6"		AS6	STR.		14	5	3'-6"	AS6	STR.		5	3'-6"		AS6	STR.		5	3'-6"		AS6	STR.		5	3'-6"		AS6	STR.		5	3'-6"		AS6	STR.	
5	5'-0"		AS7	S6		8	5	5'-0"	AS7	S6		5	5'-0"		AS7	S6		5	5'-0"		AS7	S6		5	5'-0"		AS7	S6		5	5'-0"		AS7	S6	
2	5		AS8	STR.		2	5	5-4	AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.	
2	5		AS9	STR.		2	5	5-4	AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.	
SQUARE																																			
30	10	20'-7"	AS1	I		38	10	20'-7"	AS1	I		42	10	20'-7"	AS1	I		44	10	20'-7"	AS1	I		10	20'-7"		AS1	I							
20	5	25'-6"	AS5	STR.		40	5	19'-9"	AS5	STR.		40	5	21'-9"	AS5	STR.		40	5	22'-9"	AS5	STR.		5			AS5	STR.							
SKEWED UP TO 15°																																			
30	10		AVE	AS1	I	1	38	10		AVE	AS1	I	1	42	10		AVE	AS1	I	1	44	10		AVE	AS1	I	1	10			AVE	AS1	I	1	
5	29'-6"		AS5	STR.	2	5	19'-9"		AS5	STR.	3	5	21'-9"		AS5	STR.	3	5	22'-9"		AS5	STR.	3	5			AS5	STR.	3						
ALL SKEWED SPANS																																			
2	5		ASIO	STR.		5			ASIO	STR.		5			ASIO	STR.		5			ASIO	STR.		5			ASIO	STR.							
ABOVE 15° SKEW																																			
30	10	20'-7"	AS1	I		38	10	20'-7"	AS1	I		42	10	20'-7"	AS1	I		44	10	20'-7"	AS1	I		10	20'-7"		AS1	I							
29	10		AVE	AS2	STR.	4	37	10		AVE	AS2	STR.	4	41	10		AVE	AS2	STR.	4	43	10		AVE	AS2	STR.	4	10			AVE	AS2	STR.	4	
5	29'-6"		AS5	STR.	2	5	19'-9"		AS5	STR.	3	5	21'-9"		AS5	STR.	3	5	22'-9"		AS5	STR.	3	5			AS5	STR.	3						

REMARKS: 1. ASI BAR "B" DIMENSION VARIES FROM 15'-6" TO 20'-0". 2. 20' + DIMENSION (P+L)/4 (IN FEET) + NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. 3. 40' + DIMENSION (P+L)/2 (IN FEET) + NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. 4. THE LENGTH OF AS2 BARS VARIES FROM 19'-9" TO 21'-9". THE AS2 BARS MUST BE DIVIDED INTO TWO OR MORE PIECES, AS MAY BE NECESSARY, TO LIMIT THE MAXIMUM BAR LENGTH TO 30 FEET. THE LOCATION OF SPLICES IS LEFT TO THE OPTION OF THE DESIGNER. THE NO. PIECES SHOWN ARE FOR CONDITION 1. (FOR CONDITION 2 & 3, SEE REINF. SCHEDULE.)

GENERAL NOTES: ALL REINFORCING STEEL SHALL BE DETAILED ON THE REINFORCING STEEL SCHEDULE. WHEN A BAR LENGTH VARIES IN INCREMENTS EACH BAR MUST BE DETAILED. SPLICES SHALL BE 2'-1" FOR NUMBER 5 BARS, AND 4'-3" FOR NUMBER 10 BARS. ALL WORK AND MATERIALS SHALL CONFORM TO THE STATE OF VERMONT, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JANUARY 1956, AND THE A.A.S.H.O. SPECIFICATIONS DATED 1957. DESIGNED FOR H20-S16-44.



DETAILS OF REINFORCING BARS					REINFORCING STEEL				QUANTITY COMPUTATION	
TYPE I		TYPE S6 C			A	B	C	A X B X C	W	Z
A = 1'-1"	J = 0'-9"	A = 0'-6"	B = 1'-9"	C = 0'-6"	BAR NO.	NO. PIECES	LENGTH	WEIGHT PER FT.	WEIGHT IN LBS.	W = WIDTH OF ROADWAY
B = 19'-6" OR VARIES		D = 1'-9"	G = 0'-6"		AS1	38	20-7	4.303	3365.6	Z = 20' + DIMENSION (P+L)/4
					AS2	-	-	4.303	-	T = DIMENSION (M+R)/2
					AS3	2	7-0	4.303	60.2	W = 38'-0"
					AS4	2	7-0	4.303	60.2	Z = 20'-0"
					AS5	40	19-9	1.043	824.0	T = 7'-6"
					AS6	14	3'-6"	1.043	51.1	BITUMINOUS CONCRETE = W x Z x 0.0123 = TONS
					AS7	8	5'-0"	1.043	41.7	38 x 20 x 0.0123 = 9.35 TONS
					AS8	2	5-4	1.043	11.1	TAR EMULSION = W x Z x 0.0444 = GALLONS
					AS9	2	5-4	1.043	11.1	38 x 20 x 0.0444 = 33.7 GALLONS
					ASIO	-	-	1.043	-	CONCRETE CLASS B = W x Z x 0.0386 + T x 0.1029 + (T - 1.8333) x 0.0733 = CUBIC YARDS
										[38 x 20 x 0.0386] + [75 x 0.1029] + [75 - 1.8333] x 0.0733 = 32.5 CUBIC YARDS
										GRANITE BRIDGE CURB = 2(T + 0'-5") x LINEAR FEET
										2(75 + 0.25) = 155 LINEAR FEET
										ADD AN OVERRUN OF 15% TO BIT. CONCRETE, AND AN OVERRUN OF 5% TO CONCRETE CLASS B
										BAR LENGTHS: AS3 BARS = DIMENSION "M" - 0'-6"
										AS4 BARS = DIMENSION "R" - 0'-6"
										AS6 BARS = 3'-6"
										AS7 BARS = 5'-0"
										AS8 BARS = DIMENSION "M" - 2'-2"
										AS9 BARS = DIMENSION "R" - 2'-2"
										TOTAL WEIGHT = 4425.0

WILLISTON - GEORGIA
IM MEMB(25)
SHEET 18 OF 38
BRIDGES 63 N AND S
FOR REFERENCE ONLY

TOWN OF WILLISTON - S. BURLINGTON
ROUTE NO. I 89
LOG STA. 1907+70
SCALE AS NOTED
DESIGNED BY RSH CHECKED BY AHS
PROJECT NO. I-89-3(14) Cont. #1
BR. 8 OF 10 SHEET 96B OF 115

SB-AS-60