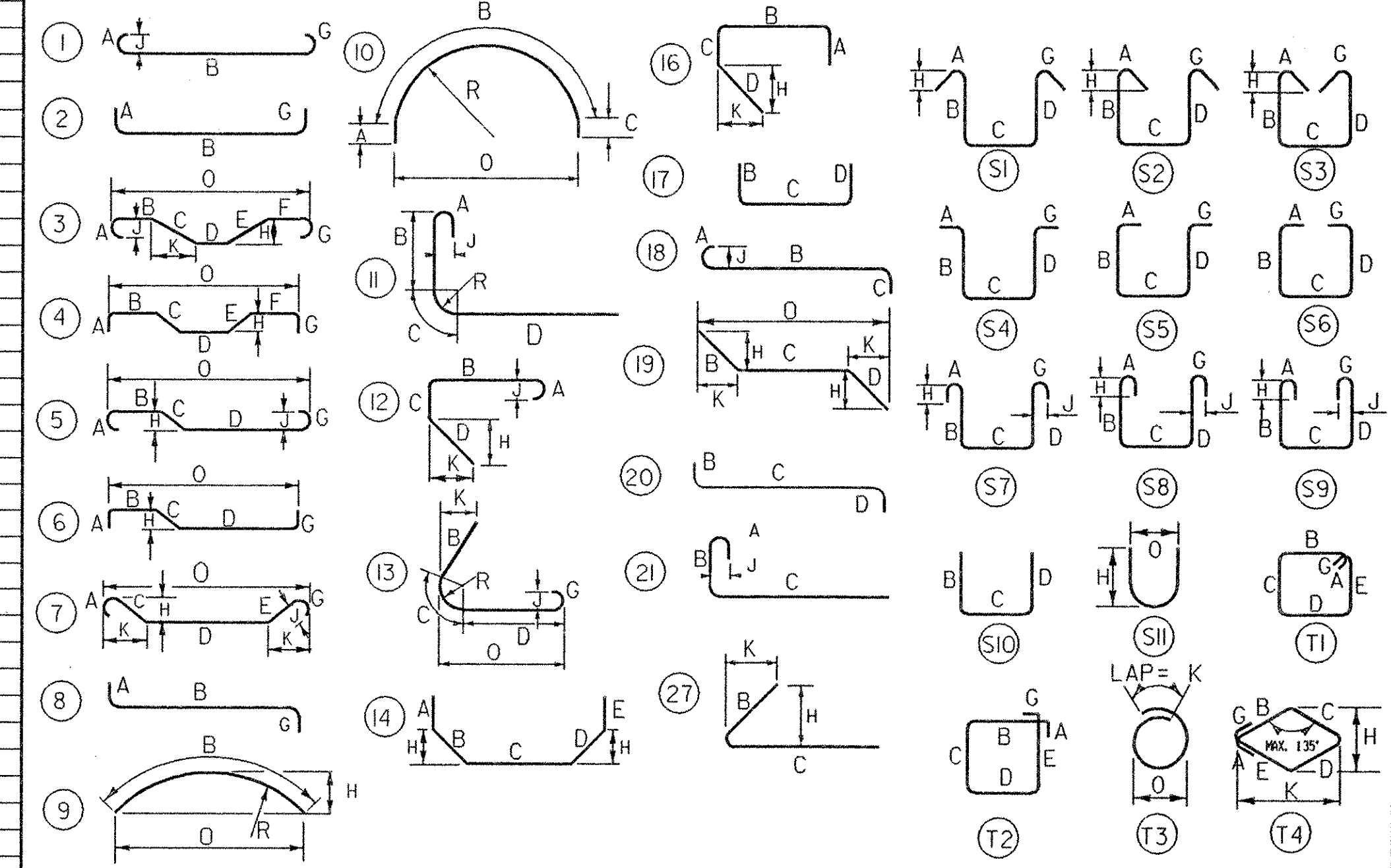


ITEM NO.	ITEM	UNIT	QUANTITY BREAKDOWN			TOTAL	FINAL
			CLARK HATCH BROOK	DARIUS JAMES BROOK			
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY	670	1080		1750	
203.32	GRANULAR BORROW	CY	1120	760		1880	
204.25	STRUCTURE EXCAVATION	CY	370	740		1110	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY	56	60		116	
501.25	CONCRETE, CLASS B	CY	29	33		62	
507.15	REINFORCING STEEL	LB	3600	480		4080	
511.25	84" CORRUGATED ALUMINUM ALLOY PLATE PIPE (120 LF X 7356 LBS)	EA	1			1	
511.30	14'-0" X 8'-7" CORR. ALUM. ALLOY PLATE PIPE ARCH (90 LF = 9306 LBS)	EA		1		1	
528.11	TWO-WAY TEMPORARY BRIDGE @ STA. 388+25	LS	1			1	
528.11	TWO-WAY TEMPORARY BRIDGE @ STA. 418+36	LS		1		1	
529.15	REMOVAL OF STRUCTURE @ STA. 388+25	EA	1			1	
529.15	REMOVAL OF STRUCTURE @ STA. 418+36	EA		1		1	
613.11	STONE FILL, TYPE II	CY	40	320		360	
613.12	STONE FILL, TYPE III	CY		370		370	
613.13	STONE FILL, TYPE IV	CY	900			900	
649.31	GEOTEXTILE UNDER STONE FILL	SY	700	960		1660	
651.40	GRUBBING MATERIAL	SY	110	190		300	

ITEM NO.	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	G	H	K
PIPE INLET HEADWALL												
5	*	40	5	7-9	IHW503	STR						
6		14	5	14-3	IHW505	STR						
7		18	5	13-3	IHW506	STR						
8		14	5	6-3	IHW507	STR						
9		18	5	5-1	IHW508	STR						
10		20	5	7-11	IHW501	17						
11		19	5	5-2	IHW502	17			3-5	4-6	3-5	
12		9	5	2-9	IHW504	S10			1-0	0-9	1-0	
PIPE OUTLET HEADWALL												
15	*	40	6	5-6	IHW601	STR						
PIPE ARCH HEADWALLS												
133	△	6	5	25-6	HW501	STR						
135	△	8	6	25-6	HW601	STR						

NOTES

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town of **GROTON-RYEGATE** Bridge No. _____
 Highway No. **US 302** Log Sta. _____
 Surv. Sta. **388+00 & 418+20**

**US 302 OVER CLARK HATCH & DARIUS JAMES
QUANTITY AND REINFORCING SHEET**

Designed By **RSD & R WHITCOMB** Drawn By **G. ROY**
 Checked By **R. WHITCOMB** Date **2/96** Bridge Design Supervisor **J. H. WEAVER** Date **2/96**

PROJECT **GROTON-RYEGATE** PROJECT NO. **F 026 - 1(30)**

J.G.C. Info. /str/3/TBd073/sd073.dgn sd073.dgn
 Bridge Sheet No. 1 OF 5 Sheet 75 of 152

PLOTTED 12-MAR-1997