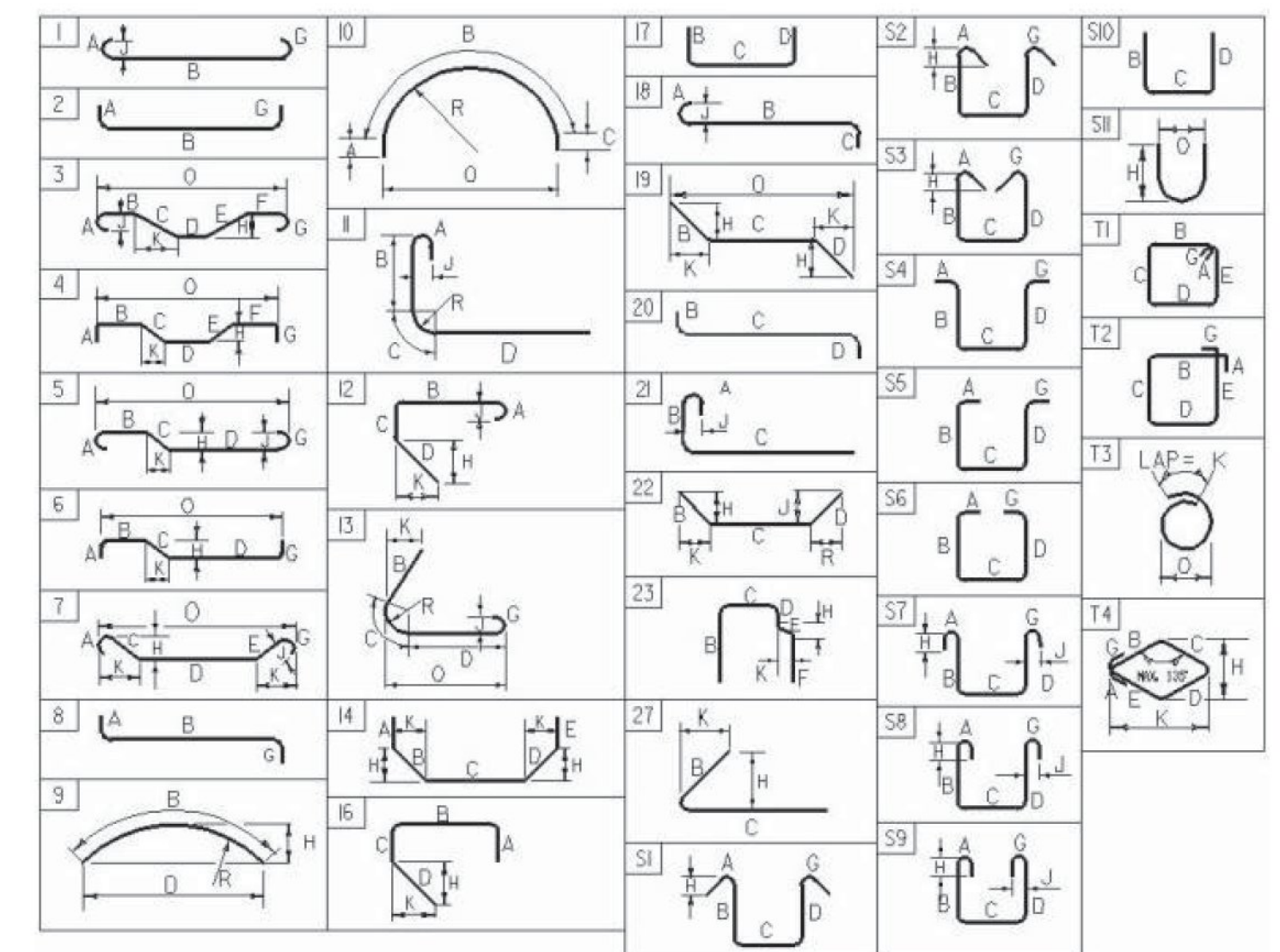


REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	
WINGWALL NO. 1																																				
	52	5	7'-4"	1W501.3	17		2'-2"	3'-0"	2'-2"																											
	2	5	7'-7"	1W502.3	17		2'-2"	3'-3"	2'-2"																											
	2	5	7'-11"	1W503.3	17		2'-2"	3'-7"	2'-2"																											
	6	5	6'-8"	1W504.3	22		1'-6"	3'-7"	1'-6"				1'-3"	1'-3"	0'-10"	0'-10"																				
*▲	30	5	5'-0"	1W505.3	STR																															
▲	11	5	14'-3"	1W506.3	STR																															
▲	7	5	14'-6"	1W507.3	STR		4'-5"	10'-1"	--				1'-0"		4'-4"		14'-4"																			
	27	7	5'-0"	1W701.3	STR																															
	11	8	12'-0"	1W801.3	STR																															
	12	5	2'-6 1/2"	1P501.3	T1	0'-2"	0'-8"	0'-8"	0'-8"	0'-8"	0'-2"																									
WINGWALL NO. 2																																				
▲	46	5	7'-4"	2W501.3	17		2'-2"	3'-0"	2'-2"																											
	2	5	7'-7"	2W502.3	17		2'-2"	3'-3"	2'-2"																											
	2	5	7'-11"	2W503.3	17		2'-2"	3'-7"	2'-2"																											
	6	5	6'-7"	2W504.3	22		1'-6"	3'-7"	1'-6"				1'-3"	1'-3"	0'-10"	0'-10"																				
▲	23	5	5'-1"	2W505.3	STR																															
*▲	12	5	11'-0"	2W506.3	STR																															
▲	7	5	14'-3"	2W507.3	STR		3'-5"	10'-10"	--				1'-5"		3'-1"		14'-3"																			
*▲	30	7	5'-1"	2W701.3	STR																															
	11	8	13'-4"	2W801.3	STR																															
	12	5	2'-6 1/2"	2P501.3	T1	0'-2"	0'-8"	0'-8"	0'-8"	0'-8"	0'-2"																									
WINGWALL NO. 3																																				
	48	5	7'-4"	3W501.3	17		2'-2"	3'-0"	2'-2"																											
	2	5	7'-7"	3W502.3	17		2'-2"	3'-3"	2'-2"																											
	2	5	7'-11"	3W503.3	17		2'-2"	3'-7"	2'-2"																											
	6	5	6'-7"	3W504.3	22		1'-6"	3'-7"	1'-6"				1'-3"	1'-3"	0'-10"	0'-10"																				
*▲	23	5	5'-1"	3W505.3	STR																															
▲	11	5	11'-0"	3W506.3	STR																															
▲	7	5	13'-5"	3W507.3	STR		3'-6"	9'-11"	--				0'-8"		3'-5"		13'-5"																			
*▲	30	7	5'-1"	3W701.3	STR																															
	11	8	13'-4"	3W801.3	STR																															
	12	5	2'-6 1/2"	3P501.3	T1	0'-2"	0'-8"	0'-8"	0'-8"	0'-8"	0'-2"																									
WINGWALL NO. 4																																				
	50	5	7'-4"	4W501.3	17		2'-2"	3'-0"	2'-2"																											
	2	5	7'-7"	4W502.3	17		2'-2"	3'-3"	2'-2"																											
	2	5	7'-11"	4W503.3	17		2'-2"	3'-7"	2'-2"																											
	6	5	6'-8"	4W504.3	22		1'-6"	3'-7"	1'-6"				1'-3"	1'-3"	0'-10"	0'-10"																				
	30	5	5'-0"	4W505.3	STR																															
*▲	12	5	14'-3"	4W506.3	STR																															
▲	7	5	14'-6"	4W507.3	STR		4'-4"	10'-2"	--				1'-2"		4'-1"		14'-3"																			
*▲	27	7	5'-0"	4W701.3	STR																															
	11	8	12'-0"	4W801.3	STR																															
	12	5	6'-2 1/2"	4P501.3	T1	0'-2"	0'-8"	0'-8"	0'-8"	0'-8"	0'-2"																									
SIDEWALK																																				
*	332	4	8'-0"	SW401.3	S5	1'-6"	2'-0"	0'-7"	2'-5"				1'-6"																							
	42	5	40'-0"	SW501.3	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-SI). 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 STRRUPS 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 BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	DIAMETER INCHES	CROSS SECTIONAL AREA INCHES ²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	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

Vermont Agency of Transportation
RECEIVED
CK'D BY **VHB** OK'D BY **TAS**
March 7, 2017
RESUBMIT NO APPROVED AS NOTED
BY **T Sumner** DATE **3/9/17**

PROJECT NAME: **LUDLOW**
PROJECT NUMBER: **BRF 025-1(42)**
FILE NAME:

CALDERWOOD ENGINEERING, ETC.
STRUCTURAL ENGINEERING • DETAILING SERVICES
222 RIVER RD, RICHMOND, ME 04877 PH: (207) 752-2007 FAX: (207) 752-2008
PREPARED FOR:
COLD RIVER BRIDGES, LLC
CEE 16-16-COLD RIVER BRIDGES
01-CS-LUDLOW

DESIGN-DRAWN	DATE	BY	DATE
CHECKED-REVIEWED	JAN 2017	TJC	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

VE SUPER DESIGN
LUDLOW VT. BRF 025-1(42)
REINFORCING STEEL SCHEDULE

SHEET NUMBER
48
of 73