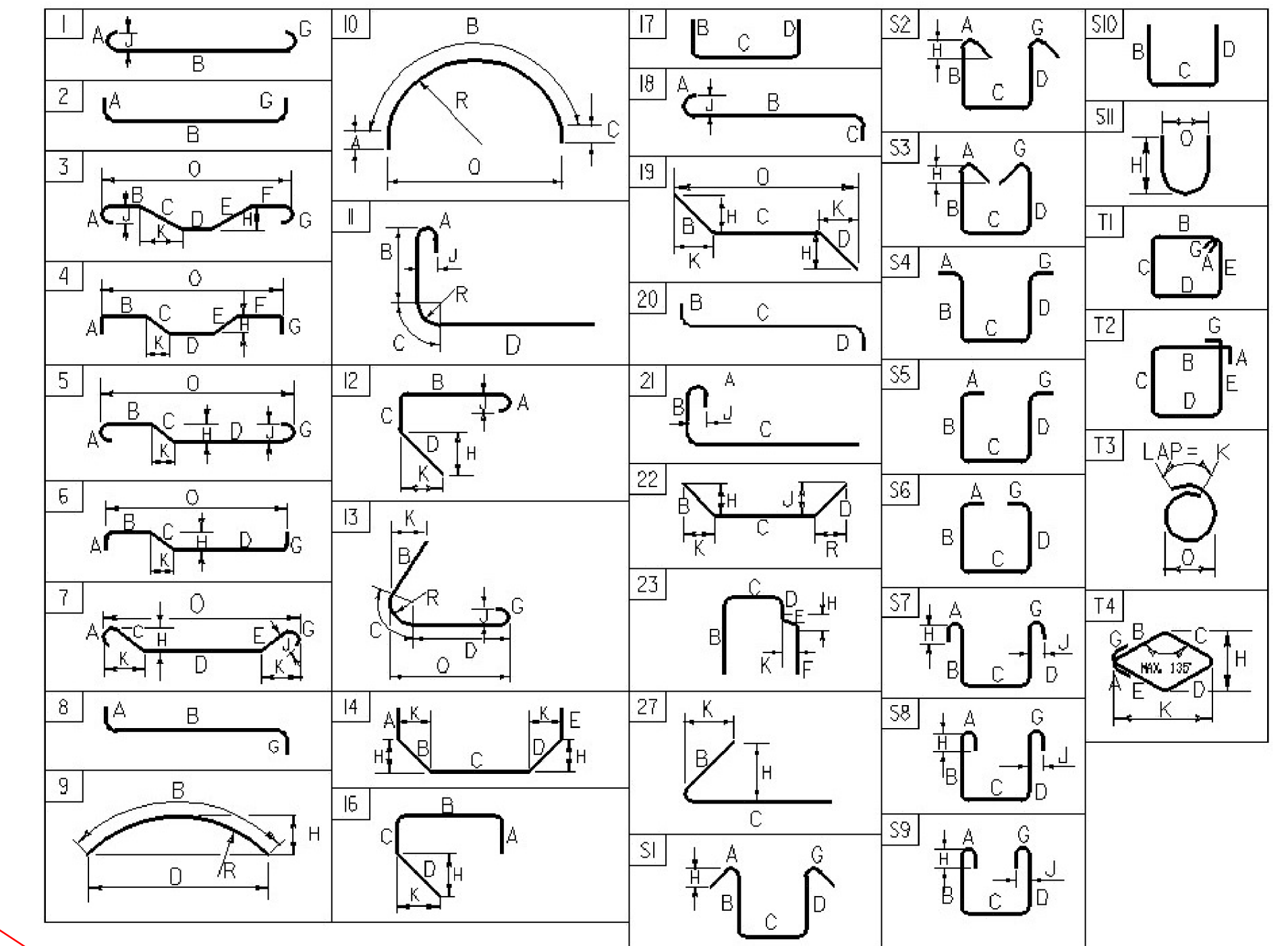


REINFORCING STEEL SCHEDULE

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
DECK																																			
*	13	5	25'- 1"	D501.2	STR																														
ABUTMENT #1																																			
	8	5	18'- 6"	1A502	STR	18'- 6"																													
▲	70	5	4'- 6"	1A501	S-10		1'- 5"	3'- 1"	---																										
	8	5	7'- 3"	1A503	22		3'- 5"	3'- 10"	---				2'- 5"	---	2'- 5"	---																			
ABUTMENT #2																																			
	8	5	18'- 6"	2A502	STR	18'- 6"																													
▲	70	5	4'- 10"	2A501	S-10		1'- 5"	3'- 5"	---																										
	8	5	7'- 5"	2A503	22		3'- 7"	3'- 10"	---				2'- 6"	---	2'- 6"	---																			
WINGWALL #1																																			
	12	5	6'- 3"	1W501	STR	6'- 3"																													
▲	4	5	9'- 8"	1W505	STR	9'- 8"																													
	2	5	10'- 1"	1W507	STR	10'- 1"																													
*	2	5	5'- 1"	1W508	STR	5'- 1"																													
▲	5	5	7'- 11"	1W502	S-10		3'- 6"	0'- 11"	3'- 6"																										
	2	5	5'- 9"	1W503	S-10		2'- 2"	1'- 5"	2'- 2"																										
	6	5	5'- 3"	1W504	S-10		2'- 2"	0'- 11"	2'- 2"																										
▲	8	5	7'- 6"	1W506	22		1'- 0"	6'- 6"	---				0'- 9"	---	0'- 9"	---																			
WINGWALL #2																																			
▲	12	5	6'- 5"	2W501	STR	6'- 5"																													
▲	4	5	9'- 9"	2W505	STR	9'- 9"																													
	2	5	10'- 3"	2W507	STR	10'- 3"																													
	2	5	5'- 1"	2W508	STR	5'- 1"																													
▲	5	5	8'- 3"	2W502	S-10		3'- 8"	0'- 11"	3'- 8"																										
	2	5	5'- 9"	2W503	S-10		2'- 2"	1'- 5"	2'- 2"																										
	6	5	5'- 3"	2W504	S-10		2'- 2"	0'- 11"	2'- 2"																										
▲	8	5	8'- 1"	2W506	22		1'- 4"	6'- 9"	---				0'- 11"	---	0'- 11"	---																			
WINGWALL #3																																			
▲	10	5	6'- 1"	3W501	STR	6'- 1"																													
▲	4	5	9'- 8"	3W505	STR	9'- 8"																													
	2	5	10'- 5"	3W507	STR	10'- 5"																													
	2	5	5'- 3"	3W508	STR	5'- 3"																													
▲	6	5	8'- 11"	3W502	S-10		4'- 0"	0'- 11"	4'- 0"																										
	2	5	5'- 9"	3W503	S-10		2'- 2"	1'- 5"	2'- 2"																										
	5	5	5'- 3"	3W504	S-10		2'- 2"	0'- 11"	2'- 2"																										
▲	8	5	6'- 8"	3W506	22		1'- 3"	5'- 5"	---				0'- 11"	---	0'- 11"	---																			
WINGWALL #4																																			
▲	12	5	6'- 6"	4W501	STR	6'- 6"																													
▲	4	5	10'- 4"	4W505	STR	10'- 4"																													
	2	5	10'- 11"	4W507	STR	10'- 11"																													
	2	5	5'- 6"	4W508	STR	5'- 6"																													
▲	5	5	7'- 9"	4W502	S-10		3'- 5"	0'- 11"	3'- 5"																										
	2	5	5'- 9"	4W503	S-10		2'- 2"	1'- 5"	2'- 2"																										
	6	5	5'- 3"	4W504	S-10		2'- 2"	0'- 11"	2'- 2"																										
▲	8	5	7'- 10"	4W506	22		0'- 9"	7'- 1"	---				0'- 6"	---	0'- 6"	---																			

~ 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 BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	YIELD STRENGTH (MIN)	TENSILE STRENGTH (MIN)	ELONGATION (MIN)	WELDING (MIN)
#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	2.04	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.14
#9	3.400	1.13	1.00	3.54
#10	4.3	1.270	1.27	3.990
#11	5.31	1.410	1.56	4.430
#14	7.65	1.69	2.25	5.32
#18	13.60	2.26	4.00	7.09

~ REINFORCING STEEL CORROSION RESISTANCE LEVEL ~

THE REINFORCING STEEL MARKS IN THIS SCHEDULE INDICATE THE REQUIRED BAR CORROSION RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX. .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET P SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT NAME: **ANDOVER**
 PROJECT NUMBER: **BHF 016-1(29)**
 FILE NAME: **s12b140rfs** PLOT DATE: **11/20/2014**
 PROJECT MANAGER: **C. CARLSON** DRAWN BY: **G. ROKES**
 DESIGNED BY: **D. PETERSON** CHECKED BY: **D. PETERSON**
REINFORCING STEEL SCHEDULE SHEET 32 OF 48