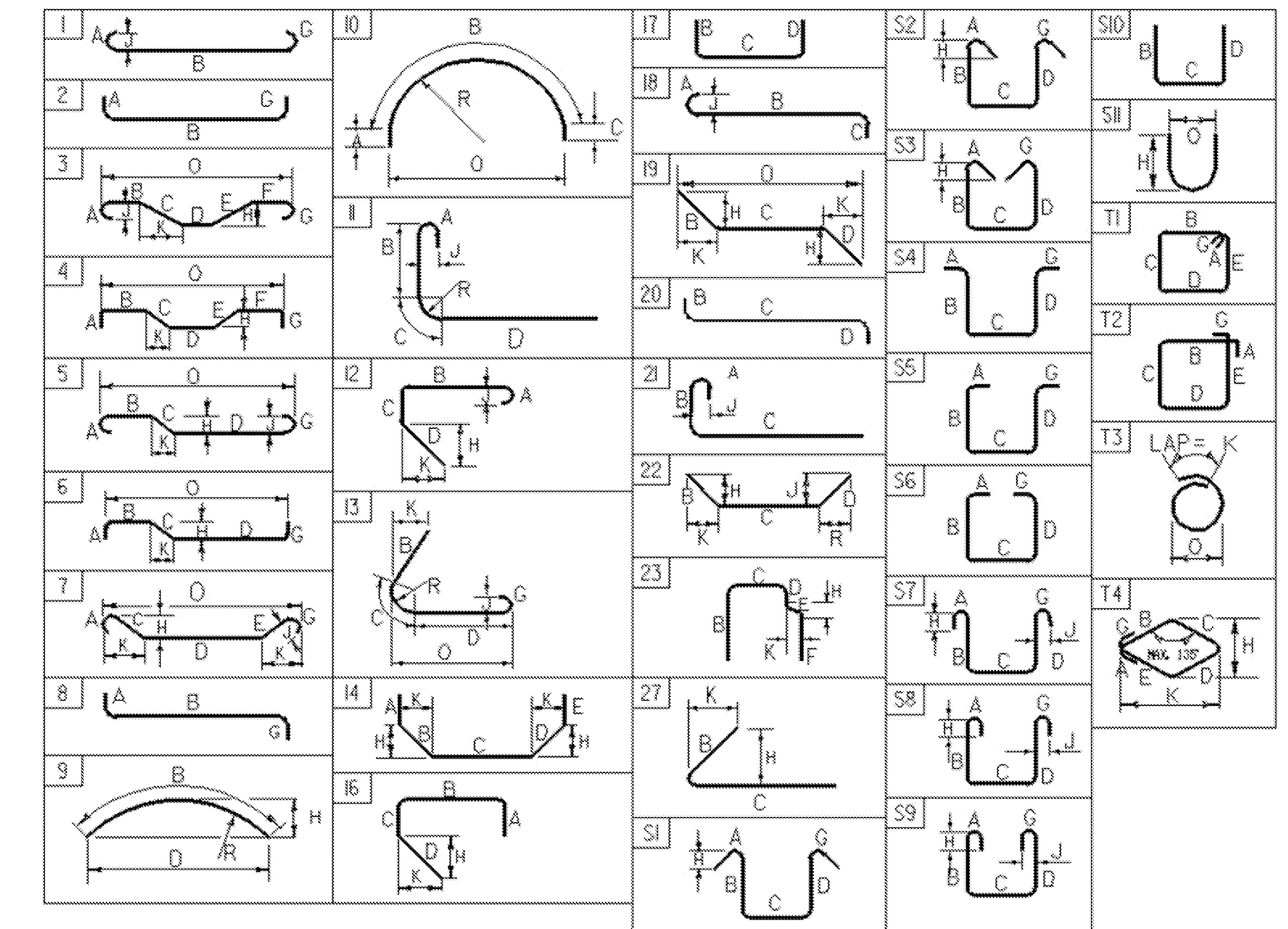


REINFORCING STEEL SCHEDULE

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
ABUTMENT NO.1																																			
▲	3	5	14'-9"	1EA501	17		1'-0"	12'-9"	1'-0"																										
▲	3	5	2'-10"	1EA502	17			1'-10"	1'-0"																										
▲	3	5	3'-9"	1EA503	17			2'-9"	1'-0"																										
	34	5	1'-9"	1EA504	17			1'-3"	0'-6"																										
	2	5	12'-9"	1EA505	STR																														
	2	5	17'-2"	1EA506	STR																														
	2	5	3'-6"	1EA507	STR																														
	2	5	4'-3"	1EA508	STR																														
ABUTMENT NO.2																																			
	3	5	12'-9"	2EA501	STR																														
	8	5	4'-1"	2EA502	STR																														
	3	5	9'-7"	2EA503	S10		4'-0"	1'-7"	4'-0"																										
	2	5	11'-0"	2EA504	S10		4'-0"	3'-0"	4'-0"																										
WINGWALL NO.3																																			
▲	20	8	3'-6"	3W801	STR																														
	6	5	7'-3"	3EW501	STR																														
*	7	5	6'-3"	3EW502	STR																														
	6	5	2'-0"	3EW503	STR																														
	2	5	4'-3"	3EW504	STR																														
	2	5	4'-5"	3EW505	STR																														
	2	5	4'-7"	3EW506	STR																														
	2	5	4'-10"	3EW507	STR																														
*	3	5	5'-1"	3EW508	STR																														
WINGWALL NO.4																																			
	4	5	7'-7"	4EW501	S10		3'-3"	1'-1"	3'-3"																										
	6	5	3'-1"	4EW502	STR																														
CONCRETE FACING ABUTMENT NO.2																																			
▲	4	5	1'-6"	2ECF501	STR																														
*	3	4	5'-6"	2ECF401	STR																														
	6	4	1'-7"	2ECF402	STR																														
CONCRETE FACING WINGWALL NO.1																																			
	8	5	1'-6"	1ECF501	STR																														
	4	4	14'-1"	1ECF401	STR																														
	15	4	3'-7"	1ECF402	STR																														
CONCRETE FACING WINGWALL NO.4																																			
▲	9	5	1'-6"	4ECF501	STR																														
	6	4	9'-8"	4ECF401	STR																														
	1	4	6'-11"	4ECF402	STR																														
*	11	4	6'-6"	4ECF403	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 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 DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	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

Hoyle, Tanner & Associates, Inc.

PROJECT NAME: **FAIRFIELD**
PROJECT NUMBER: **BHO 1448(32)**

FILE NAME: **Z04J144rein.xls** PLOT DATE: **4/15/2008**
PROJECT MANAGER: **J.H.WEAVER** DRAWN BY: **J.BICJA**
DESIGNED BY: **J.BICJA** CHECKED BY: **S.T.JAMES**
REINFORCING STEEL SCHEDULE SHEET SHEET **34** OF **36**