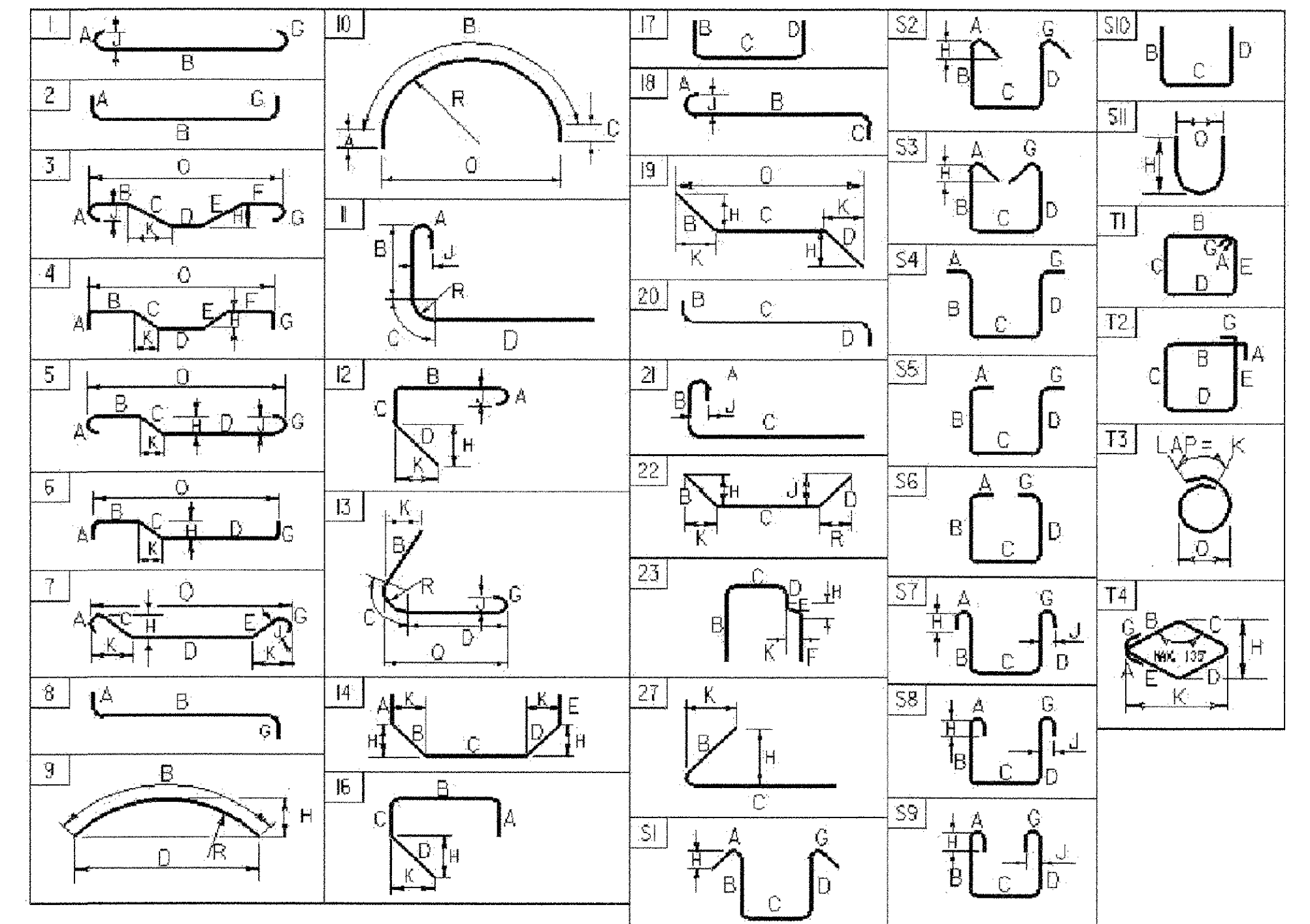


# REINFORCING STEEL SCHEDULE

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
<b>APPROACH SLAB 1</b>																		<b>WINGWALL 4</b>																	
△	23	5	15'-5"	1EA5501	STR													16	5	11'-0"	4W501	STR													
△	22	9	20'-4"	1EA5901	1	1'-1"	19'-3"											12	5	3'-11"	4W502	STR													
<b>APPROACH SLAB 2</b>																		<b>WINGWALL 4</b>																	
△	23	5	15'-5"	2EA5501	STR													*▲	13	5	15'-1"	4W503	STR												
△	22	9	20'-4"	2EA5901	1	1'-1"	19'-3"											*▲	11	5	9'-5"	4W504	STR												
<b>ABUTMENT 1</b>																		<b>WINGWALL 4</b>																	
*▲	26	5	20'-4"	1A503	STR													11	5	5'-11"	4W505	S10	2'-2"	1'-7"	2'-2"										
*▲	21	5	10'-6"	1A504	STR													2	5	9'-3"	4W506	STR													
*▲	50	5	25'-9"	1A505	STR													▲	32	5	11'-0"	4W507	STR												
*▲	26	5	10'-9"	1A506	16	2'-2"	3'-4"	1'-3"	4'-0"									8	5	11'-9"	4W508	14	2'-2"	7'-5"	2'-2"	3'-7"	3'-7"								
*▲	17	5	3'-3"	1A507	17		0'-10"	1'-7"	0'-10"									*▲	18	5	4'-4"	4W509	S10	2'-2"	2'-2"	2'-2"									
*▲	28	5	9'-9"	1EA501	S10		4'-7"	0'-7"	4'-7"									*▲	18	6	13'-8"	4W601	17	4'-1"	9'-7"										
*▲	7	5	23'-7"	1EA502	STR													△△	11	8	3'-6"	4W801	STR												
▲	4	5	3'-8"	1EA503	STR																														
▲	23	7	7'-7"	1A701	STR																														
▲	65	8	11'-0"	1A801	STR																														
▲	11	8	3'-6"	1A802	STR																														
▲	17	8	2'-0"	1EA801	22		1'-6"	0'-6"																											
▲	51	9	15'-3"	1A901	17		5'-1"	10'-2"																											
<b>ABUTMENT 2</b>																		<b>WINGWALL 1</b>																	
*▲	26	5	13'-5"	2A503	STR													*▲	31	5	21'-11"	1W503	STR												
*▲	21	5	10'-6"	2A504	STR													▲	46	5	30'-8"	1W504	STR												
*▲	26	5	10'-9"	2A505	16	2'-2"	3'-4"	1'-3"	4'-0"									28	5	5'-11"	1W505	S10	2'-2"	1'-7"	2'-2"										
*▲	36	5	25'-8"	2A506	STR													2	5	26'-9"	1W506	STR													
*▲	17	5	3'-3"	2A507	17		0'-10"	1'-7"	0'-10"									12	5	11'-9"	1W507	14	2'-2"	7'-5"	2'-2"	3'-7"	3'-7"								
*▲	28	5	9'-11"	2EA501	S10		4'-8"	0'-7"	4'-8"									25	5	4'-4"	1W508	S10	2'-2"	2'-2"											
*▲	7	5	23'-6"	2EA502	STR													▲	30	6	11'-6"	1W601	STR												
*▲	4	5	3'-8"	2EA503	STR													▲	30	8	8'-9"	1W801	STR												
*▲	31	7	7'-6"	2A701	STR													▲	14	8	3'-6"	1W802	STR												
*▲	30	7	10'-11"	2A702	17		4'-1"	6'-10"										*▲	55	10	12'-0"	1W1001	STR												
▲	15	8	3'-6"	2A801	STR													*▲	55	10	16'-5"	1W1002	17	5'-1"	11'-4"										
▲	17	8	2'-0"	2EA801	22		1'-6"	0'-6"																											
<b>WINGWALL 2</b>																		<b>WINGWALL 3</b>																	
*▲	21	5	18'-0"	2W501	STR													16	5	15'-6"	3W501	STR													
*▲	19	5	4'-5"	2W502	STR													17	5	3'-11"	3W502	STR													
*▲	19	5	21'-11"	2W503	STR													▲	17	5	15'-2"	3W503	STR												
*▲	46	5	18'-0"	2W504	STR													*▲	16	5	9'-6"	3W504	STR												
*▲	18	5	5'-11"	2W505	S10	2'-2"	1'-7"	2'-2"										*▲	15	5	5'-11"	3W505	S10	2'-2"	1'-7"	2'-2"									
*▲	3	5	16'-3"	2W506	STR													*▲	3	5	13'-9"	3W506	STR												
*▲	11	5	11'-9"	2W507	14	2'-2"	7'-5"	2'-2"	3'-7"	3'-7"								▲	32	5	15'-6"	3W507	STR												
*▲	25	5	4'-4"	2W508	S10	2'-2"	2'-2"											8	5	11'-9"	3W508	14	2'-2"	7'-5"	2'-2"	3'-7"	3'-7"								
▲	19	6	11'-6"	2W601	STR													18	5	4'-4"	3W509	S10	2'-2"	2'-2"											
▲	19	8	8'-9"	2W801	STR													*▲	29	6	13'-8"	3W601	17	4'-1"	9'-7"										
▲	11	8	3'-6"	2W802	STR													*▲	29	6	8'-6"	3W602	STR												
*▲	34	10	12'-0"	2W1001	STR													▲	13	8	3'-6"	3W801	STR												
*▲	34	10	16'-5"	2W1002	17	5'-1"	11'-4"																												

~ 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-S). 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.



BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES <sup>2</sup>	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

PROJECT NAME: BRADFORD  
 PROJECT NUMBER: STP 1447 (28)  
 FILE NAME: 96\286\structures\96286.dgn PLOT DATE: 2/28/2006  
 PROJECT MANAGER: C. P. WILLIAMS DRAWN BY: M. GAGULIC  
 DESIGNED BY: M. GAGULIC CHECKED BY: R.S.YOUNG  
 REINFORCING STEEL SCHEDULE SHEET #1 SHEET 34 OF 63