STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
✳	181	5	33'- 9"	ES501	STR	33'- 9"											
	40	5	14'- 0"	ES504	STR	14'- 0"											
	134	5	12'- 3"	ES502	22		1'- 5"	10'- 10"	---				0'- 1"		1'- 5"		
	134	5	20'- 0"	ES503	22		1'- 5"	18'- 7"	---				0'- 1"		1'- 5"		
	52	5	11'- 8"	ES505	S5	2'- 2"	3'- 6"	0'- 7"	3'- 3"			2'- 2"					
	48	5	8'- 7"	ES506	S5	1'- 7"	3'- 9"	0'- 7"	1'- 8"			1'- 0"					
✳	195	6	16'- 3"	ES601	3	0'- 6"	1'- 5"	14'- 4"	---	---	---	---	0'- 10"	**	14'- 4"		
	194	6	16'- 3"	ES602	3	0'- 6"	1'- 5"	14'- 4"	---	---	---	---	0'- 10"		14'- 4"		
	194	6	5'- 7"	ES603	3	0'- 6"	1'- 5"	3'- 8"	---	---	---	---	0'- 3"	**	3'- 8"		
	194	6	5'- 7"	ES604	3	0'- 6"	1'- 5"	3'- 8"	---	---	---	---	0'- 3"		3'- 8"		
	WINGWALL #1																
	9	5	4'- 7"	1EW501	STR	***											
	12	5	7'- 7"	1EW502	STR												
	11	6	4'- 4"	1EW601	STR	***											
	2	5	5'- 10"	1EW503	17		2'- 4"	1'- 2"	2'- 4"								
	10	5	5'- 9"	1EW504	17		2'- 4"	1'- 1"	2'- 4"								
	WINGWALL #2																
	10	5	7'- 10"	2EW501	STR												
	18	5	8'- 4"	2EW502	STR												
	13	6	8'- 1"	2EW601	STR												
	2	5	5'- 10"	2EW503	17		2'- 4"	1'- 2"	2'- 4"								
	16	5	5'- 9"	2EW504	17		2'- 4"	1'- 1"	2'- 4"								

NOT CAST-IN-PLACE, SEE RFI #2 AND CORRESPONDING CHANGE OF DESIGN

ADDITIONAL BARS REQUIRED

	20	5	5'		STR	5'											

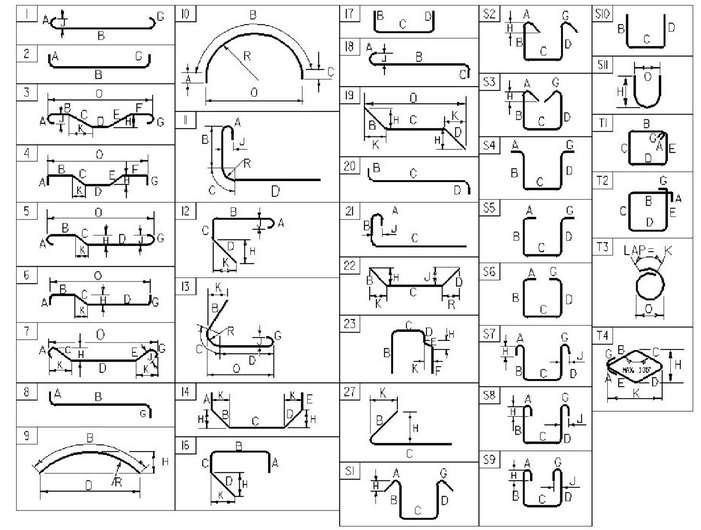
ES504 NOT LONG ENOUGH AT 14'-0" TO HAVE 2"-2" MIN. SPLICE, THESE 20 BARS REQUIRED

5'X1.043#/FT X 20= 104.3 LB

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	#																
	6371.43																
	584.08																
	1712.08																
	2795.24																
	632.76																
	429.71																
	4759.46																
	4735.06																
	1626.91																
	1626.91																
	104.3																
	25,378 LB																

~ NOTES ~

1. 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.
2. 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".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. 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

** INDICATES DIMENSION IN OPPOSITE DIRECTION SHOWN IN BEND DIAGRAM

*** EXCLUDES BAR LENGTH INTO ABUTMENT

PROJECT NAME: **HUNTINGTON**
PROJECT NUMBER: **BF 0211(32)**

FILE NAME: **z13j080rss.dgn**
PROJECT MANAGER: **S.E. BURBANK**
DESIGNED BY: **R.H. BARNES**
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: **8/12/2016**
DRAWN BY: **R.H. BARNES**
CHECKED BY: **S.E. BURBANK**
SHEET **46** OF **62**

VHB 57737.00