STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

Metric

ABUTMENT # 1

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★	85	16	2040	1A1601	STR												
	32	16	6420	1A1602	STR												
	88	16	1180	1A1603	STR												
▲	41	16	1810	1A1604	STR												
	14	16	6356	1A1605A	STR												
	14	16	6393	1A1605B	STR												
▲	46	16	3080	1A1606	STR												
	39	16	2460	1A1607A	S10		660	1140	660								
	2	16	2160	1A1607B	S10		660	840	660								
	10	16	7700	1A1608A	STR												
	10	16	6393	1A1608B	STR												
	39	16	1860	1A1609	S10		660	540	660								
▲	43	16	2760	1A1610A	S10		1060	240	1460								
▲	5	16	3560	1A1610B	S10		1460	240	1860								
▲	4	16	900	1A1611	STR												
	12	16	1320	1A1612A	19		660	660					330		572		1232
	12	16	2320	1A1612B	19		660	1660					330		572		2232
	12	16	1320	1A1613A	19		660	660					258		608		1268
	12	16	2145	1A1613B	19		660	1485					258		608		2093

ABUTMENT # 2

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	94	16	2040	2A1601	STR												
★	33	16	7130	2A1602	STR												
	94	16	1190	2A1603	STR												
▲	45	16	2035	2A1604	STR												
	14	16	6860	2A1605A	STR												
	14	16	6733	2A1605B	STR												
▲	49	16	3470	2A1606	STR												
	40	16	2460	2A1607A	S10		660	1140	660								
	8	16	2170	2A1607B	S10		660	850	660								
	12	16	8000	2A1608A	STR												
	10	16	6733	2A1608B	STR												
	40	16	1860	2A1609	S10		660	540	660								
▲	49	16	3660	2EA1610	S10		1460	240	1960								
	4	16	8000	2EA1611	STR												
	12	16	1320	2A1612A	19		660	660					608		258		918
	12	16	2340	2A1612B	19		660	1680					608		258		1938
	12	16	1320	2A1613A	19		660	660					300		588		1248
	12	16	2145	2A1613B	19		660	1485					300		588		1683

WINGWALL # 1

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	13	16	2970	1W1601	STR												
	11	16	1190	1W1602	STR												
★▲	9	16	3640	1W1603A	STR												
	4	16	1750	1W1603B	STR												
▲	7	16	2230	1W1604	STR												
	7	16	2810	1W1605A	STR												
▲	22	16	1590	1W1605B	STR												
	7	16	1225	1W1606	S10		450	325	450								
	2	16	1815	1W1607	19		1595	220					781		1390		1610
	8	25	3530	1W2501	17			920	2610								
★	12	29	2390	1W2901	STR												

WINGWALL # 2

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★	14	16	2970	2W1601	STR												
	11	16	1190	2W1602	STR												
	6	16	3720	2W1603A	STR												
	4	16	1810	2W1603B	STR												
▲	6	16	2300	2W1604	STR												
	7	16	2840	2W1605A	STR												
	21	16	1340	2W1605B	STR												
	6	16	1225	2W1606	S10		450	325	450								
	2	16	1440	2W1607	19		1220	220					471		1125		1345
★	7	25	3530	2W2501	17			920	2610								
★	12	29	2390	2W2901	STR	2390											

WINGWALL # 3

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	13	16	4900	3W1601	STR												
	18	16	1190	3W1602	STR												
▲	13	16	4080	3W1603A	STR												
★	6	16	2040	3W1603B	STR												
▲	13	16	2660	3W1604	STR												
	8	16	4760	3W1605A	STR												
	22	16	3440	3W1605B	STR												
	13	16	1225	3W1606	S10		450	325	450								
	2	16	3570	3W1607	19		3350	220					902		3226		3446
★	14	25	3530	3W2501	17			920	2610								
★	19	29	2390	3W2901	STR												

WINGWALL # 4

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★	14	16	2500	4W1601	STR												
	8	16	1190	4W1602	STR												
▲	5	16	3965	4W1603A	STR												
	3	16	1945	4W1603B	STR												
▲	5	16	2545	4W1604	STR												
	8	16	2105	4W4605A	STR												
	22	16	1450	4W1605B	STR												
	5	16	1225	4W1606	S10			450	325	450							
	2	16	1350	4W1607	19			1130	220				364		1070		1290
★	6	25	3530	4W2501	17				920	2610							
★	11	29	2390	4W2901	STR												

DECK

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★▲	455	16	10940	ES1601	STR												
▲	14	16	12650	ES1602	STR												
	318	16	1720	ES1603	S5	300	375	440	305			300					
	32	16	1960	ES1604	S5	660	190	920	190								
	32	16	1490	ES1605	S5	660	190	450	190								
★	385	19	9200	ES1901	STR	9200											

APPROACH SLAB # 1

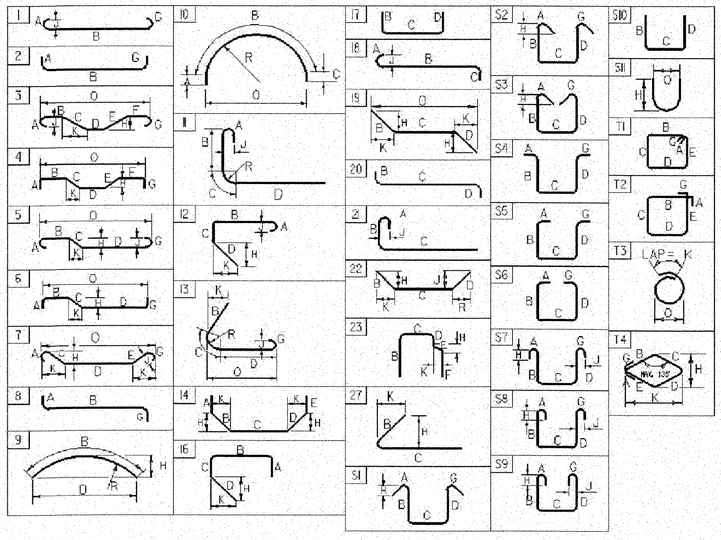
ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★	22	16	11388	EAS160	STR												
★	43	29	6225	EAS290	1	375	5850							300			

APPROACH SLAB # 2

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
★	22	16	11388	EAS160	STR												
★	43	29	6225	EAS290	1	375	5850							300			

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, 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 PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIMENSIONS ROUND SECTION DIAMETER (mm)	CROSS SECTIONAL AREA (mm²)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **MENDON**
PROJECT NUMBER: **BRO 1443 (35)**

FILE NAME: /str5/95j290/sj290rss.xls
PROJECT LEADER: CRAIG KELLER
DESIGNED BY: K. RUTTER
REINFORCING STEEL SCHEDULE SHEET

PLOT DATE: 10/13/2005
DRAWN BY: K. RUTTER
CHECKED BY: 0
SHEET 62 OF 94