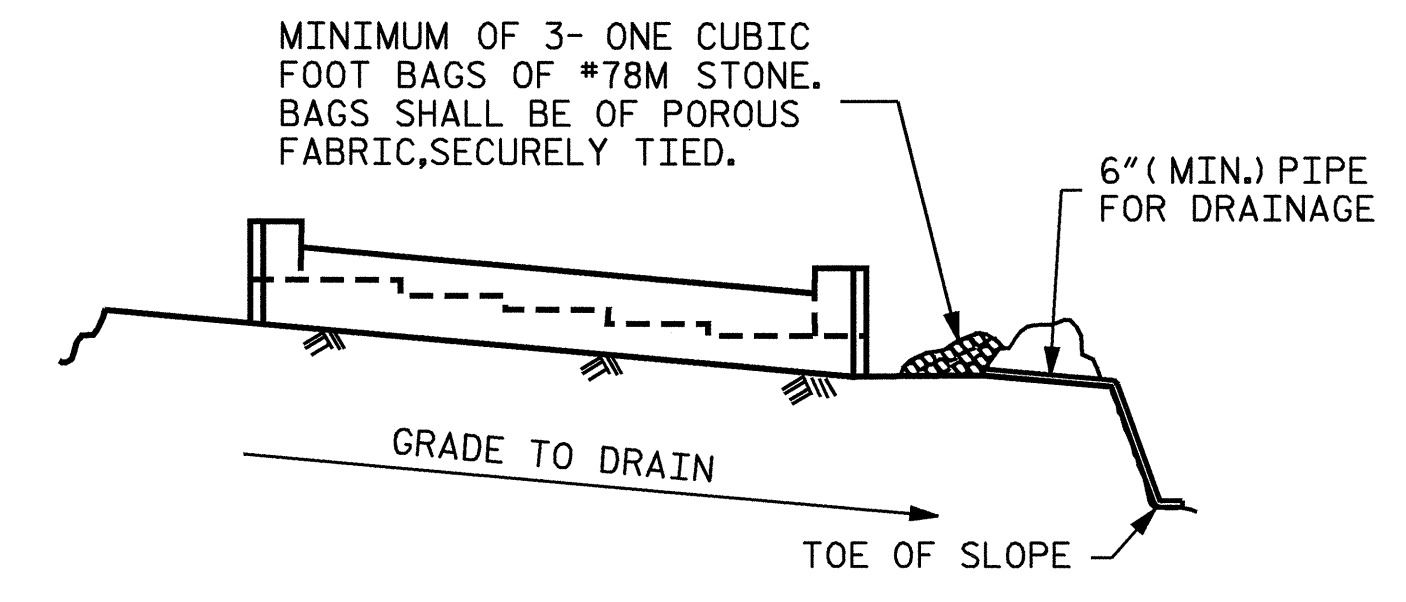


BILL OF MATERIAL					
STAGE 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B9	13	4	STR.	3'-6"	30
B17	5	9	1	53'-10"	915
B18	5	9	2	38'-7"	656
B19	2	5	STR.	16'-10"	35
B20	2	5	STR.	51'-5"	107
B21	8	4	STR.	26'-11"	144
B22	5	4	STR.	11'-8"	39
B23	5	4	STR.	8'-5"	28
B24	1	9	2	21'-3"	72
B25	1	9	2	21'-9"	74
B26	1	9	2	22'-3"	76
B27	1	9	2	22'-10"	78
B28	1	9	2	23'-5"	80
H3	11	5	3	14'-10"	170
H4	11	5	3	15'-2"	174
K3	24	4	STR.	27'-1"	434
K4	4	4	STR.	3'-10"	10
S1	50	5	5	4'-5"	230
S5	20	4	7	6'-6"	87
S6	3	6	8	3'-9"	17
S7	1	6	9	8'-11"	13
S8	22	5	4	10'-2"	233
S9	28	5	4	8'-8"	253
U1	15	4	6	6'-6"	65
U2	47	4	6	3'-8"	115
V3	94	5	STR.	7'-8"	752
V4	38	5	STR.	9'-1"	360
REINFORCING STEEL					5247
CLASS A CONCRETE BREAKDOWN					
POUR #1					
CAP & LOWER WINGS					23.8 Yds.3
POUR #2					
BACKWALL & UPPER WINGS					15.5 Yds.3
TOTAL CLASS A CONCRETE					39.3 Yds.3
HP 12 X 53 STEEL PILES					
NO. 10					700 Lin. Ft.



MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

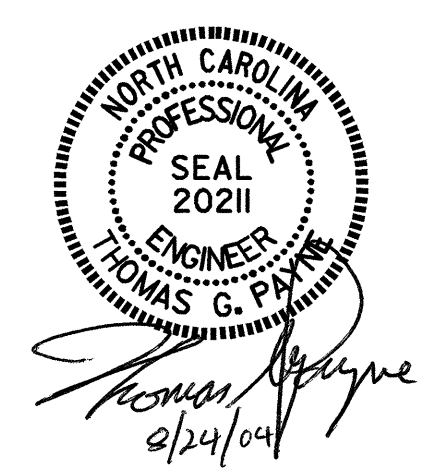
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

	STAGE 1	STAGE 2	TOTAL
REINFORCING STEEL (LBS.)	7769	5247	13016
TOTAL CLASS A CONCRETE (C.Y.)	65.6	39.3	104.9
HP 12 X 53 STEEL PILES	NO.	14	10
	LIN. FT.	980	700
			1680

PROJECT NO. I-2102
 FORSYTH COUNTY
 STATION: 20+71.54 -L-

SHEET 5 OF 5



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUBSTRUCTURE
 END BENT #2**

(STAGE 2)

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	DATE:	S-45
1			3		TOTAL SHEETS 51
2			4		

DRAWN BY: J.P. ADAMS DATE: 1/21/04
 CHECKED BY: H.A. LOCKLEAR DATE: 5/04