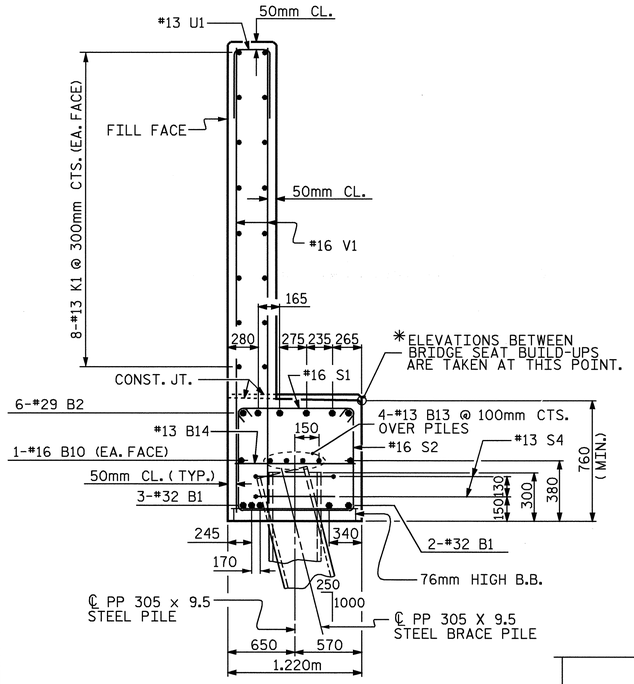
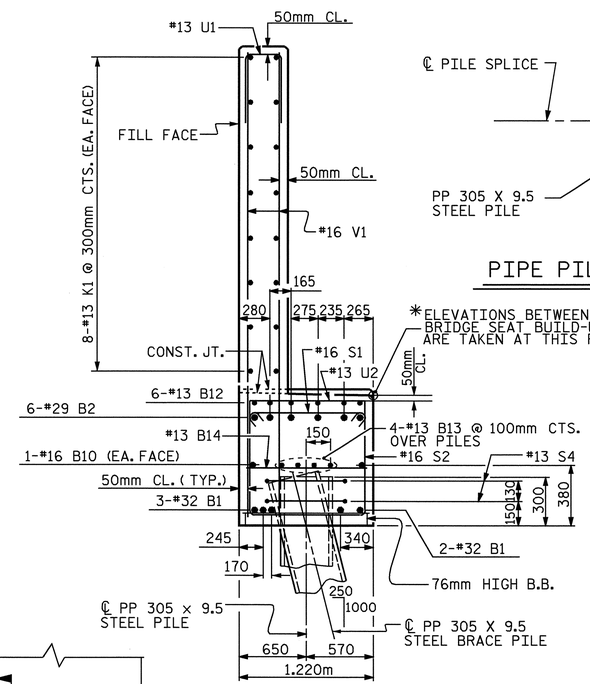
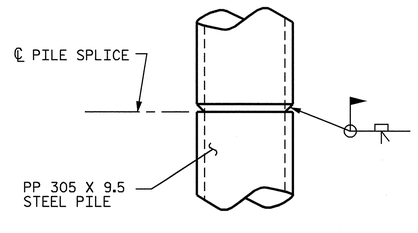


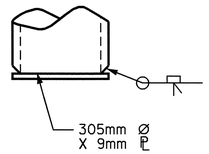
SECTION A-A



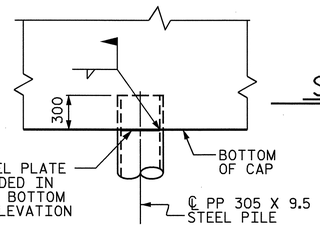
SECTION B-B



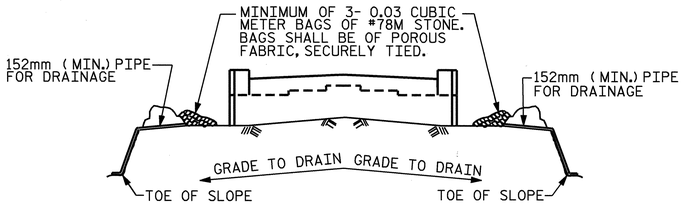
PIPE PILE SPLICE DETAILS



DRIVING PLATE DETAIL



PIPE PILE IN END BENT CAP DETAIL

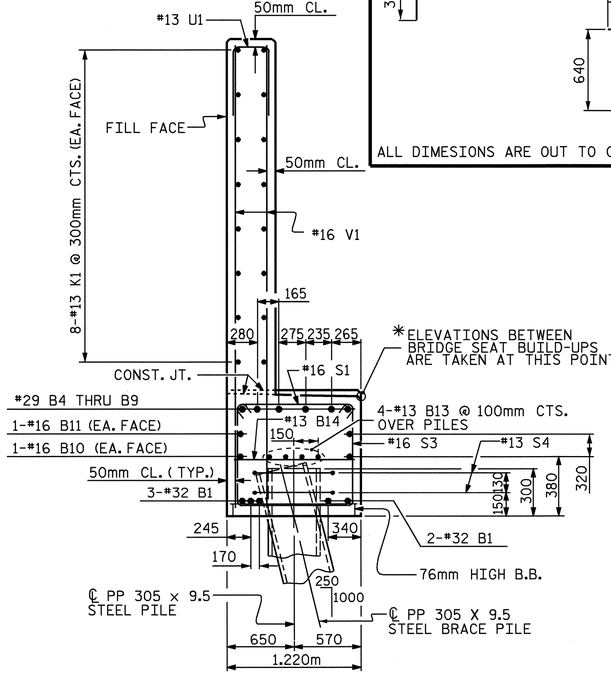


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE,CORRUGATED STEEL,CORRUGATED ALUMINUM ALLOY,OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

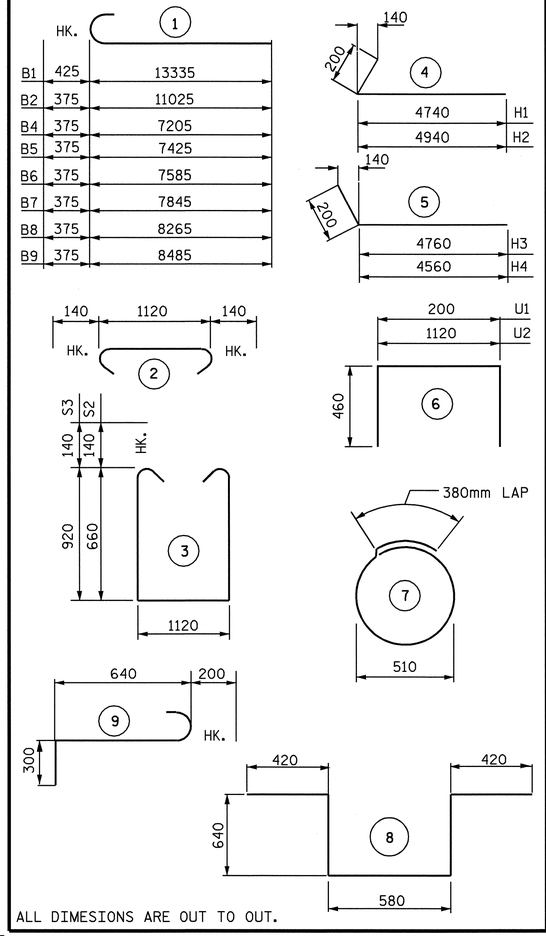
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



SECTION C-C

BAR TYPES



ALL DIMESIONS ARE OUT TO OUT.

BILL OF MATERIAL
END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	32	1	13760	881
B2	6	29	1	11400	346
B3	6	29	STR	11400	346
B4	1	29	1	7580	38
B5	1	29	1	7800	39
B6	1	29	1	7960	40
B7	1	29	1	8220	42
B8	1	29	1	8460	43
B9	1	29	1	8660	44
B10	4	16	STR	12580	78
B11	2	16	STR	6580	20
B12	12	13	STR	5380	64
B13	12	13	STR	8580	102
B14	23	13	STR	1120	26
H1	14	16	4	4940	107
H2	14	16	4	5140	112
H3	13	16	5	4960	100
H4	13	16	5	4760	96
J1	2	19	8	2700	12
J2	6	19	9	1140	15
K1	48	13	STR	8580	409
K2	8	13	STR	1180	9
S1	68	16	2	1400	148
S2	47	16	3	2720	198
S3	21	16	3	4960	106
S4	36	13	7	1980	71
U1	73	13	6	1120	81
U2	22	13	6	2040	45
V1	146	16	STR	3000	680
V2	42	16	STR	3700	241
V3	40	16	STR	3400	211
REINFORCING STEEL				kg	4750

CLASS A CONCRETE BREAKDOWN

POUR 1 (CAP AND LOWER PORTION OF WINGS)	m^3	29.9
POUR 2 (BACKWALL AND UPPER PORTION OF WINGS)	m^3	24.3
CLASS A CONCRETE TOTAL	m^3	54.2

PP 305 X 9.5 STEEL PILES

NO. 20 METERS 380.0

PROJECT NO. R-513BA

ROBESON COUNTY

STATION: 113+73.429 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 2
(RIGHT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 11259 ENGINEER DAVID P ANDERSON
8/20/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-114
1			3			TOTAL SHEETS
2			4			172

DRAWN BY : S. M. RASHIDI DATE : 1/6/03
CHECKED BY : M. A. ALLEN DATE : 03-04

STR. #2