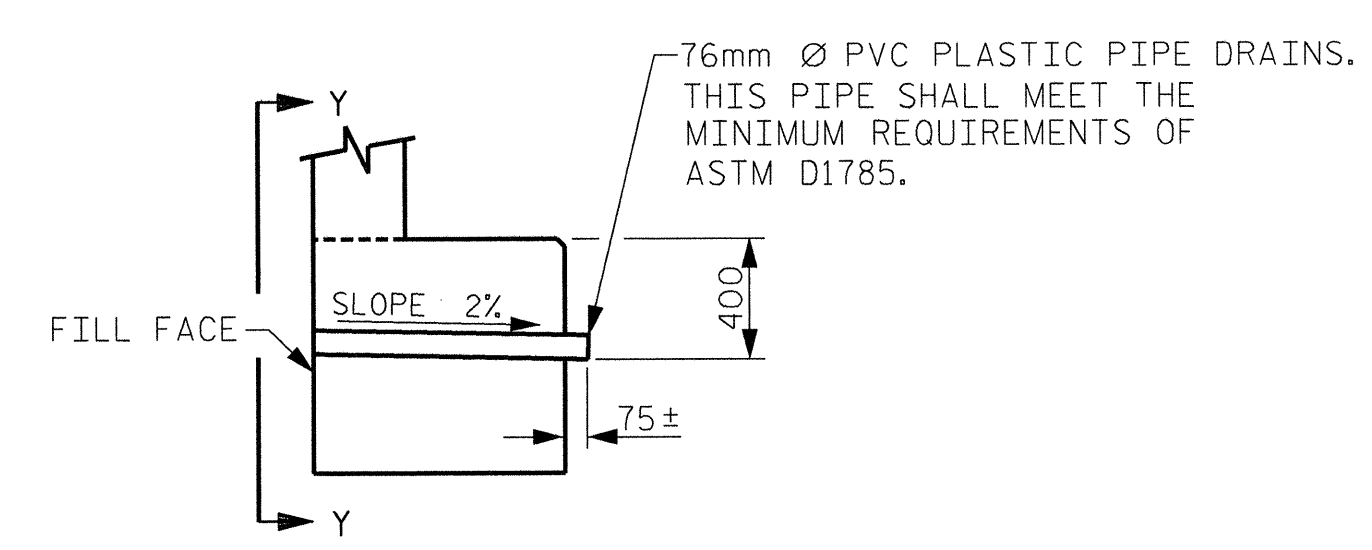
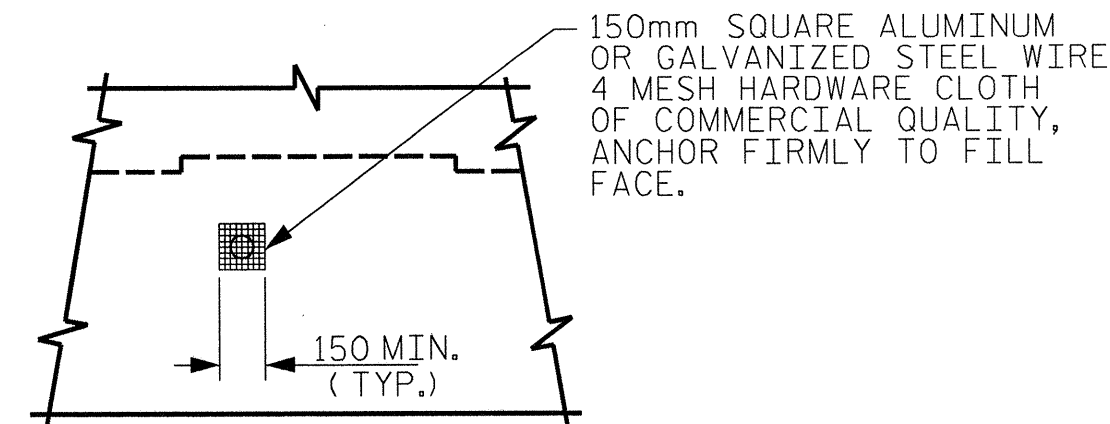


**SECTION A-A**



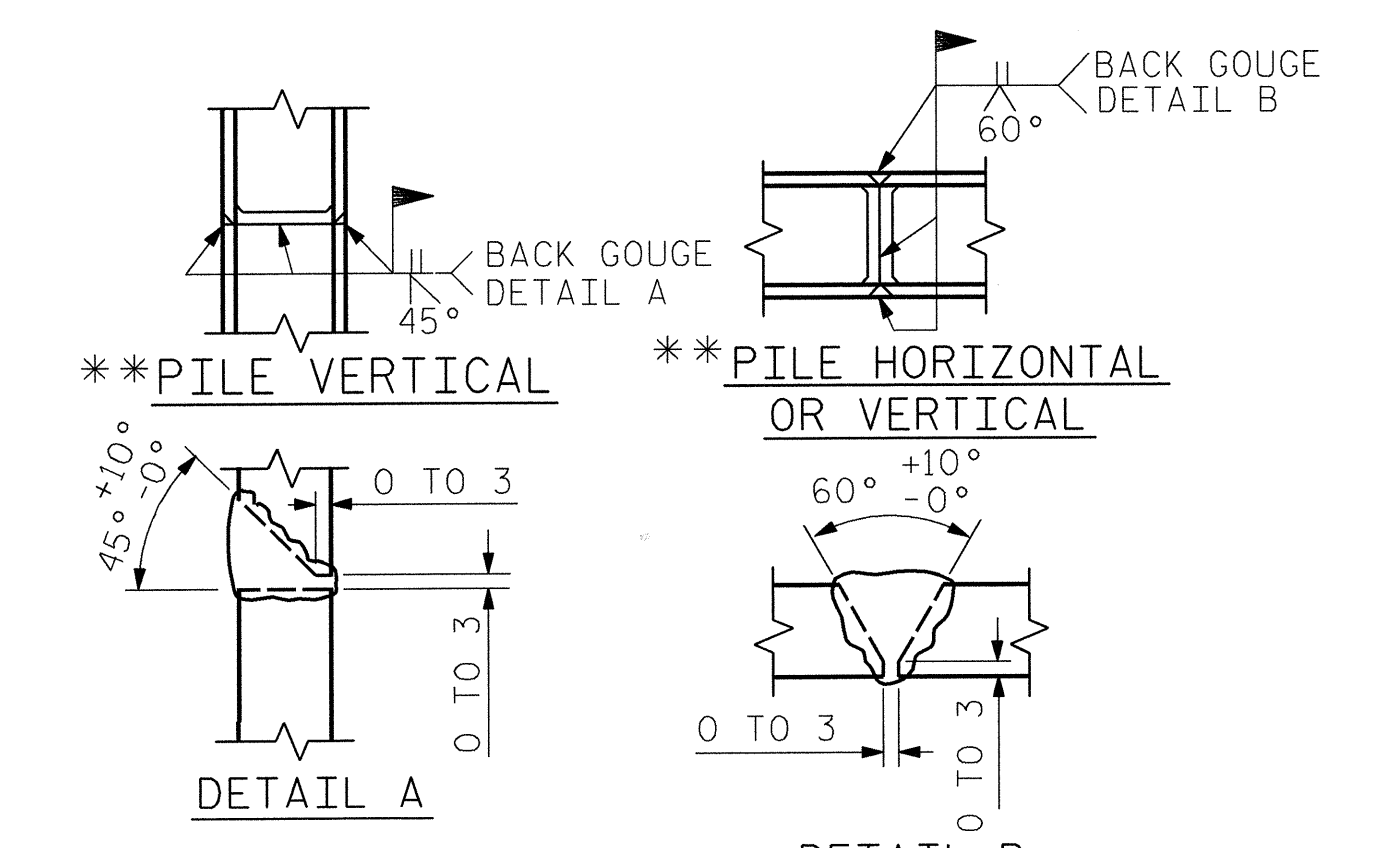
**SECTION THRU CAP**



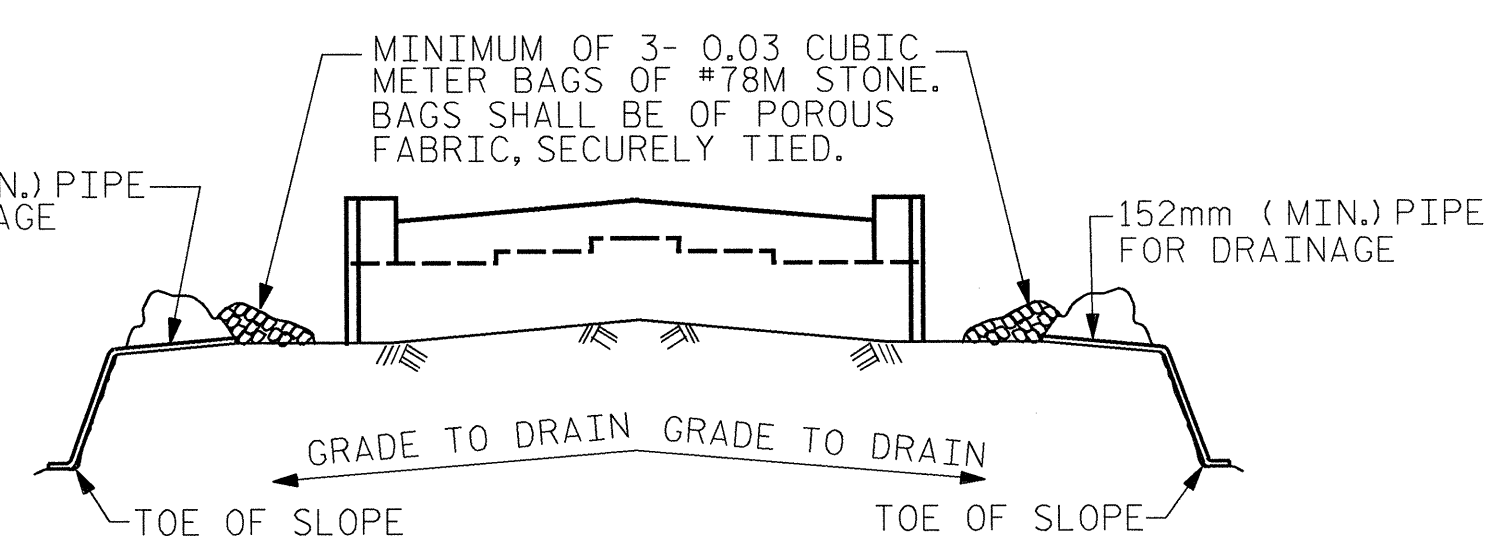
**VIEW Y-Y**

NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

**PIPE DRAIN DETAILS**



**PILE SPLICE DETAILS**



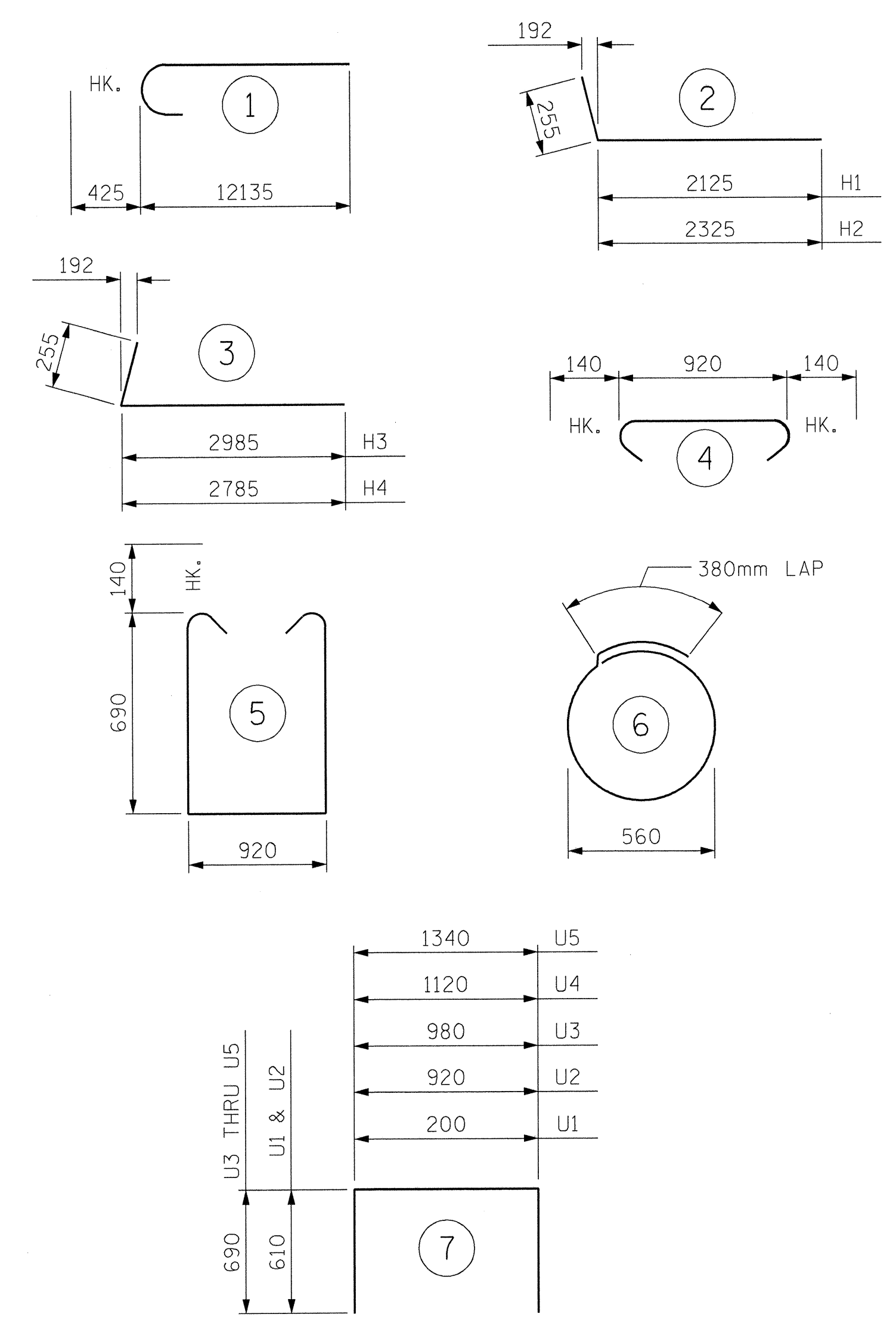
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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 FOR THE SEVERAL PAY ITEMS.

**TEMPORARY DRAINAGE AT END BENT**

**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT TO OUT.

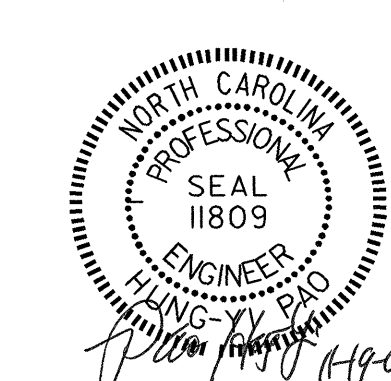
**BILL OF MATERIAL**

END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#32	1	12560	1287
B2	4	#16	STR	10900	68
B3	17	#13	STR	920	16
B4	12	#13	STR	7460	89
B5	4	#13	STR	5640	22
B6	8	#13	STR	4820	38
H1	11	#16	2	2380	41
H2	11	#16	2	2580	44
H3	11	#16	3	3240	55
H4	11	#16	3	3040	52
K1	30	#13	STR	7460	222
K2	8	#13	STR	1320	10
S1	66	#16	4	1200	123
S2	66	#16	5	2580	264
S3	14	#13	6	2140	30
U1	59	#13	7	1420	83
U2	28	#13	7	2140	60
U3	1	#13	7	2360	2
U4	1	#13	7	2500	2
U5	1	#13	7	2720	3
V1	120	#13	STR	1800	215
V2	14	#16	STR	2180	47
V3	6	#16	STR	2140	20
V4	6	#16	STR	2100	20
V5	30	#16	STR	2380	111

REINFORCING STEEL = 2,924 kg

CLASS A CONCRETE BREAKDOWN			
POUR #1	CAP & BOTTOM OF WING	m <sup>3</sup>	20.7
POUR #2	BACKWALL & TOP OF WING	m <sup>3</sup>	9.8
TOTAL CLASS A CONCRETE		m <sup>3</sup>	30.5

HP 310 X 79 STEEL PILES  
 NO. = 7 42.0 METERS



PROJECT NO. R-2610A  
 CHATHAM COUNTY  
 STATION: 27+85.488 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT 2  
 ( LEFT LANE BRIDGE )

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-75
1			3			TOTAL SHEETS
2			4			92

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 www.stantec.com

DRAWN BY: M. J. OSTRISHKO DATE: 3-18-03  
 CHECKED BY: H. PAO DATE: 6-20-03