

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 DETAILS

NOTES :

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHOR BOLTS.

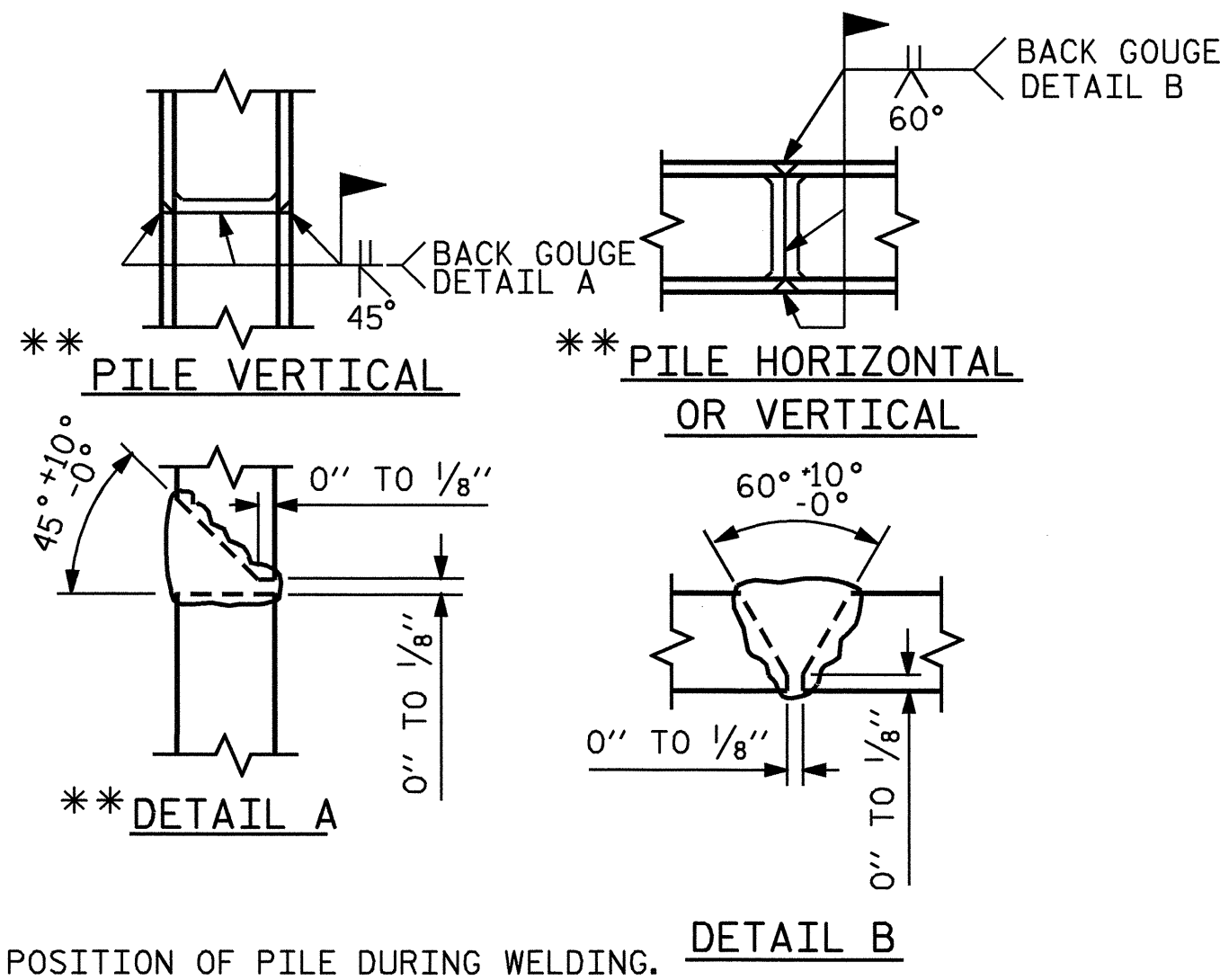
FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

BACKWALL SHALL BE PLACED BEFORE APPLYING THE EPOXY PROTECTIVE COATING.

THE TOP SURFACE OF THE CAP EXCEPT THE BRIDGE SEAT BUILDUPS SHALL BE SLOPED TRANSVERSELY FROM THE FILL FACE TO THE BACK FACE AT THE RATE OF 2%.

THE CONTRACTOR SHALL PROVIDE FOR INSTALLATION OF THE 4" DIAMETER DRAIN PIPE THROUGH THE WING WALL AS REQUIRED FOR REINFORCED BRIDGE APPROACH FILLS. SEE THE ROADWAY PLANS. REINFORCING STEEL IN THE WING WALL MAY BE SHIFTED AS NECESSARY TO CLEAR THE DRAIN PIPE.

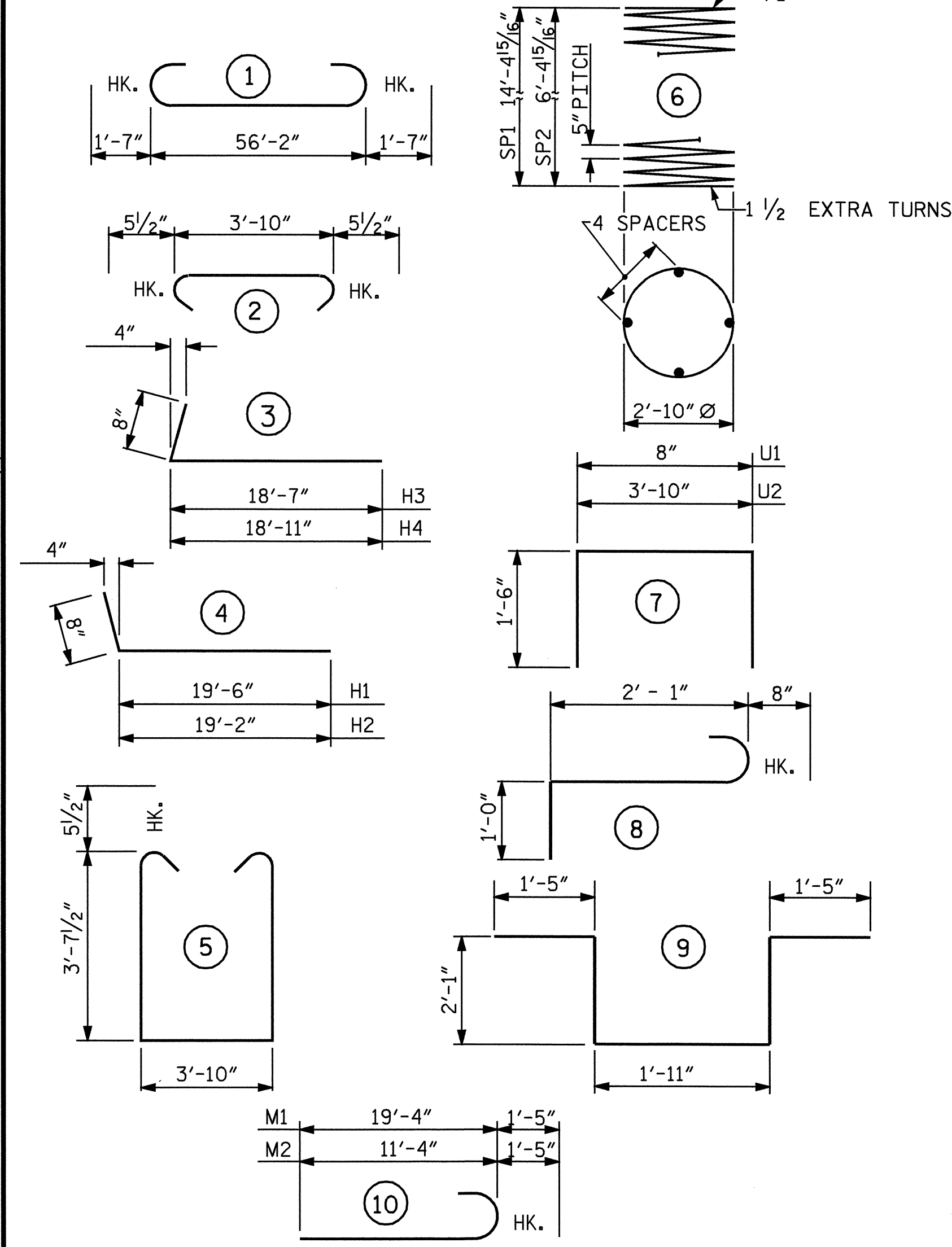
THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE LONGITUDINAL REINFORCEMENT FOR THE DRILLED PIERS IS DETAILED WITH THREE FEET OF EXTRA LENGTH.



PILE SPICE DETAILS

BAR TYPES

BAR DIMENSIONS ARE OUT TO OUT. 1 1/2 EXTRA TURNS



BILL OF MATERIAL

END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#11	1	59'-4"	3783
B2	6	#6	STR	56'-5"	508
B3	18	#4	STR	2'-8"	32
H1	14	#5	4	20'-2"	294
H2	14	#5	4	19'-10"	290
H3	14	#5	3	19'-3"	281
H4	14	#5	3	19'-7"	286
K1	32	#4	STR	29'-5"	629
K2	8	#4	STR	2'-10"	15
M1	40	#10	10	20'-9"	3571
M2	40	#10	10	12'-9"	2195
S1	48	#5	5	12'-0"	601
S2	48	#5	2	4'-9"	238
S3	2	#6	9	8'-11"	27
S4	6	#6	8	3'-9"	34
U1	50	#4	7	3'-8"	122
U2	9	#4	7	6'-10"	41
V1	100	#5	STR	11'-8"	1217
V2	44	#5	STR	12'-10"	589
V3	46	#5	STR	13'-0"	624

REINFORCING STEEL = 15377 LBS

SPIRAL REINFORCING STEEL = 1,027 LBS

* THE SP1 & SP2 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

CLASS A CONCRETE BREAKDOWN :

POUR 2 (CAP & LOWER WINGS)----- 43.4 C.Y.

POUR 3 (BACKWALL & UPPER WINGS)---- 29.8 C.Y.

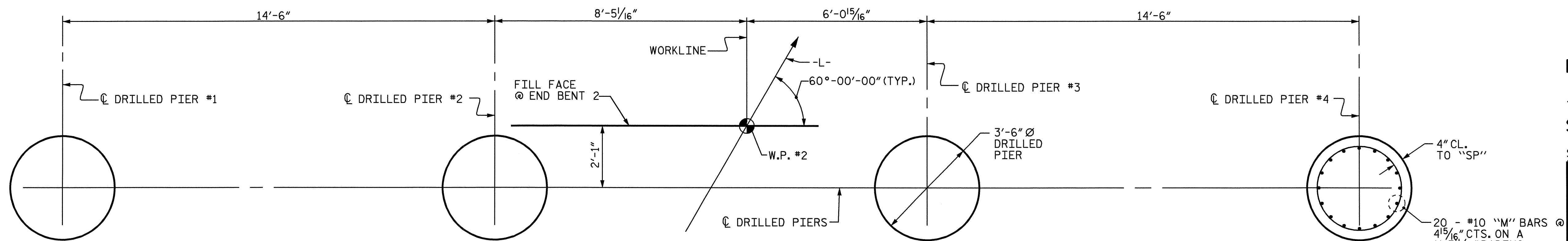
TOTAL ----- 73.2 C.Y.

3'-6" Ø DRILLED PIERS

HP 12 X 53 STEEL PILES	
No. 2	25.0 LIN. FT.
PILE EXCAVATION NOT IN SOIL	6.0 LIN. FT.
PILE EXCAVATION IN SOIL	14.0 LIN. FT.

DRILLED PIER CONCRETE :	
POUR 1	15.6 C.Y.
3'-6" Ø DRILLED PIER NOT IN SOIL	28.00 LIN. FT.
3'-6" Ø DRILLED PIER IN SOIL	15.65 LIN. FT.
CSL TUBES	214.58 LIN. FT.

SHAFT EXCAVATION SHALL BE UTILIZED TO INSTALL PILES TO ELEVATION 1052.000. SEE PILE EXCAVATION SPECIAL PROVISION.



PLAN OF DRILLED PIERS

REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR EACH DRILLED PIER.

DRAWN BY : A.R.CHESSON DATE : 10-03
CHECKED BY : K.D.LAYNE DATE : 1-04

19-AUG-2004 14:24
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brackley

PROJECT NO. B-3419
BURKE COUNTY
STATION: 20+15.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT 2



REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS 23