\_\_ DATE : <u>3/2016</u> \_\_ DATE : <u>7/2016</u>

\_ DATE : <u>3/2016</u>

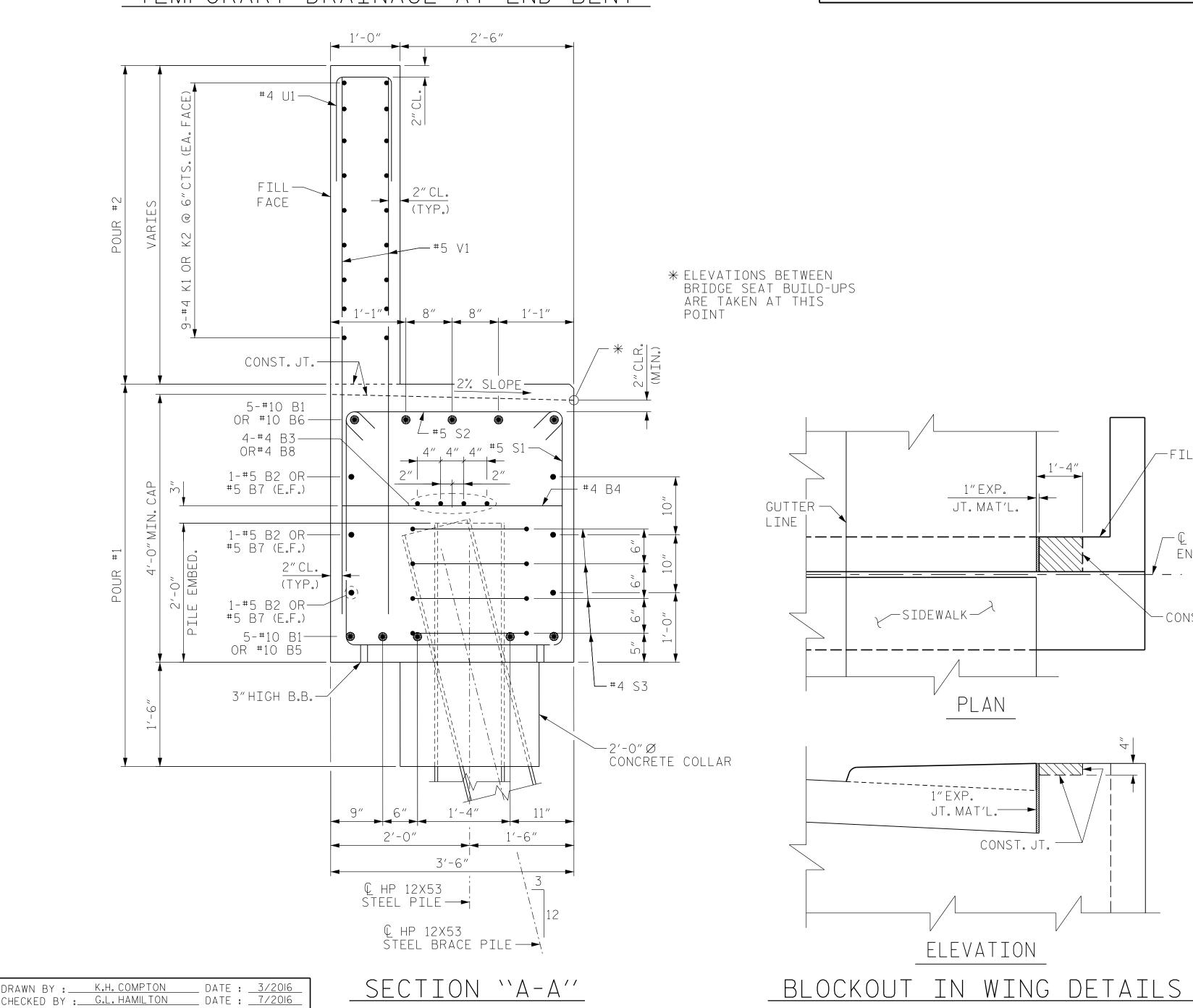
DESIGNED BY : <u>K.H. COMPTON</u>

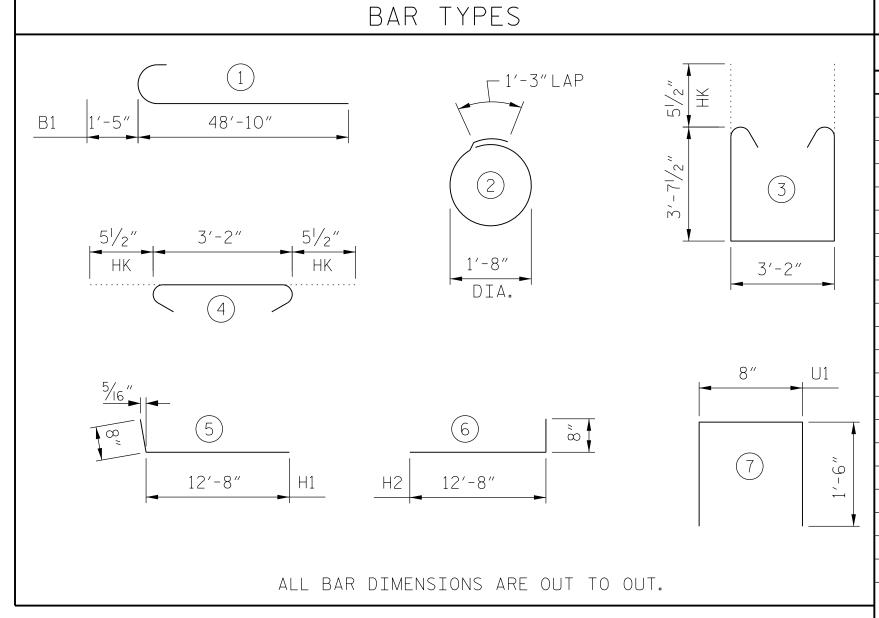
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED

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 DETER-MINES 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





STAGE I						STAGE II						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	10	#10	1)	50′-3′′	2162	B1	10	#10	1)	50′-3′′	2162	
B2	6	#5	STR	49'-10''	312	В4	16	#4	STR	3'-2''	34	
В3	8	#4	STR	26'-2''	140	B5	5	#10	STR	22'-11''	493	
В4	12	#4	STR	3'-2''	25	В6	5	#10	STR	26'-1''	561	
						В7	12	#5	STR	33′-5′′	418	
						В8	8	#4	STR	33′-2′′	177	
H1	40	#5	5	13'-4''	556	H2	38	#5	6	13'-4''	528	
K1	36	#4	STR	26'-2''	629	K2	54	#4	STR	22'-11''	827	
К3	2	#4	STR	2'-9''	4	К3	2	#4	STR	2'-9''	4	
K 4	4	#4	STR	4'-0''	11	K4	4	#4	STR	4'-0''	11	
S1	56	#5	3	11'-4''	662	S1	79	#5	3	11'-4''	934	
S2	56	#5	4	4'-1''	238	S2	79	#5	4	4'-1''	336	
S3	24	#4	2	6′-6′′	104	S3	28	# 4	2	6′-6′′	122	
U1	43	#4	7	3′-8′′	105	U1	60	#4	7	3′-8′′	147	
			0.7.0	0.7	7.40		100		0.75	<u> </u>		
V1	86	#5	STR	8'-3''	740	V1	120	#5	STR	8'-3''	1033	
V2	36	#5	STR	10'-6''	394	V3	36	#5	STR	9'-10''	369	
REINFORCING STEEL LBS. 6082						REINFORCING STEEL LBS. 8156						
CLASS A CONCRETE						CLASS A CONCRETE						
POUR #1 (CAP, COLLAR & LOWER WING) C.Y. 27.7						POUR #1 (CAP, COLLAR & LOWER WING) C.Y. 36.8						
POUR 2 (BACKWALL & UPPER WING) C.Y. 11.2						POUR 2 (BACKWALL & UPPER WING) C.Y. 13.7						
TOTAL C.Y. 38.9									TO	TAL C.	Y. 50.5	
HP 12×53 STEEL PILES NO. 6							HP 12×53 STEEL PILES NO. 7					

END BENT 1 - BILL OF MATERIAL

## NOTES:

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

BACKWALL SHALL BE PLACED BEFORE APPLYING THE EPOXY PROTECTIVE COATING.

LIN.FT. 240

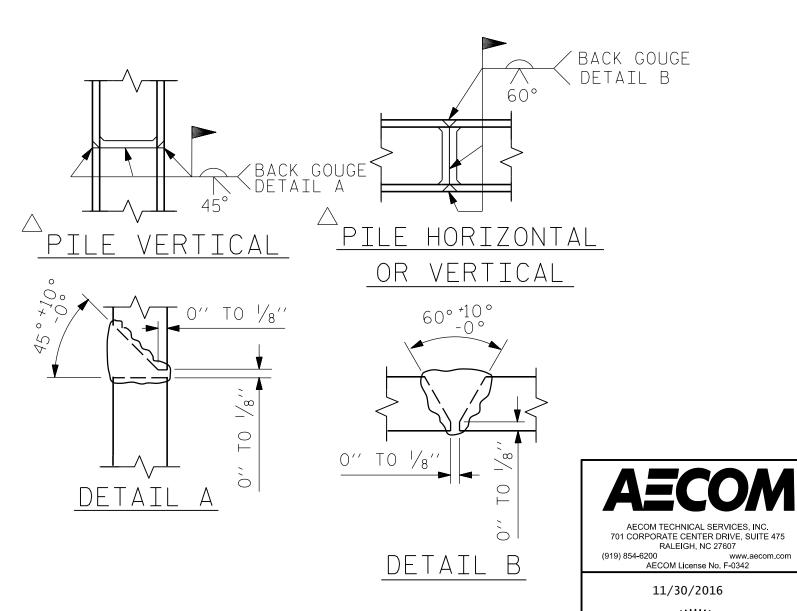
THE TOP SURFACE AREAS OF THE END BENT CAP SHALL BE CURED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT THAT THE MEMBRANE CURING COMPOUND METHOD SHALL NOT BE USED.

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%.

FOR OTHER NOTES, SEE "FOUNDATION LAYOUT" SHEET AND "LONG CHORD LAYOUT" SHEET.

THE CONCRETE IN THE SHADED AREA OF THE WING SHALL BE POURED AFTER THE JOINT BETWEEN THE DECK AND THE APPROACH SLAB HAS BEEN SAWED AND THE END POST ARE CAST IF SLIP FORMING IS USED.

INSTALL THE 4" DIA. 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.



U-4910A PROJECT NO. CABARRUS COUNTY 147+80.00 -L-

LIN.FT. 280

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENT 1 SECTION AND DETAILS

SHEET NO REVISIONS S-38 NO. BY: DATE: DATE: TOTAL SHEETS 55

**AECOM** 

11/30/2016

030474

PILE SPLICE DETAILS A POSITION OF PILE DURING WELDING.

> OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

1"EXP.

JT. MAT'L.

ELEVATION

FILL FACE

─CONST.JT.

END BENT

PLAN 1" EXP. JT. MAT'L.— CONST.JT.

—\_A2FDE142C82F4AB...