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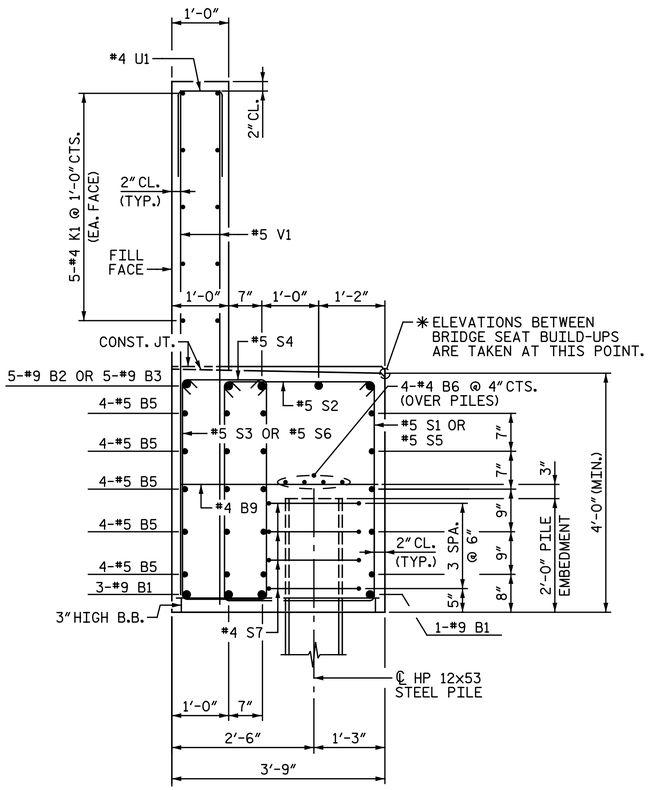
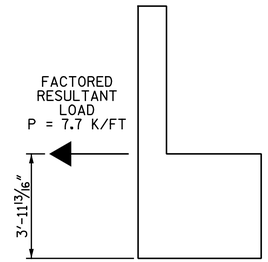
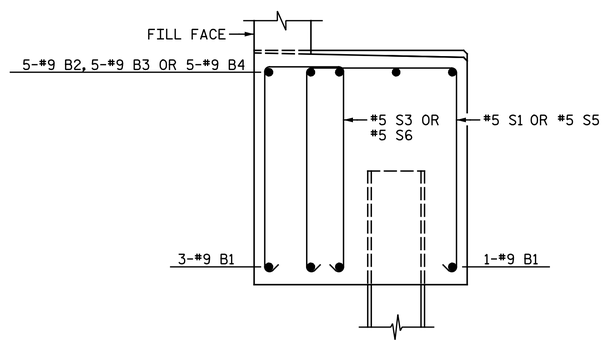


SECTION A-A



MSE REINFORCING STRAP LOAD DETAIL

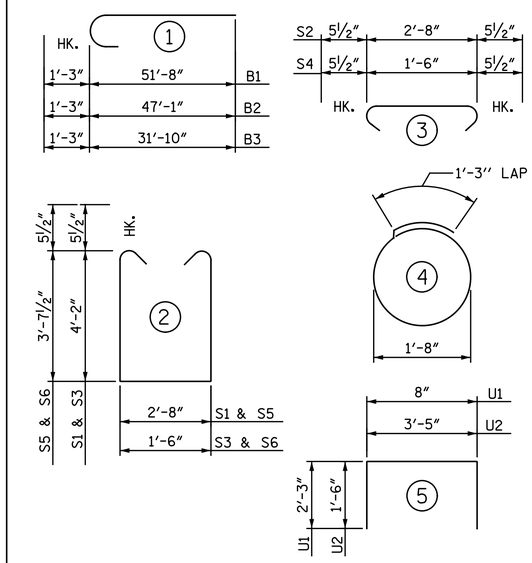
MSE REINFORCING STRAPS SHALL BE ATTACHED TO THE END BENT CAP AND/OR BACKWALL. FOR DESIGN CRITERIA AND DETAILS, SEE MSE WALL SHEETS AND SPECIAL PROVISIONS.



PARTIAL SECTION C-C

ONLY B1, B2, B3, B4, S1, S3, S5 & S6 BARS SHOWN FOR CLARITY.

BAR TYPES



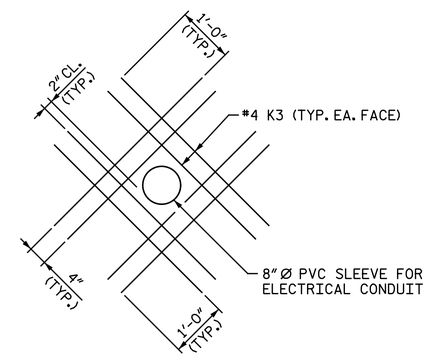
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 1

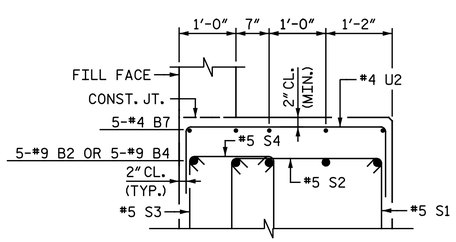
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	52' - 11"	1,439
B2	5	#9	1	48' - 8"	827
B3	5	#9	1	33' - 1"	562
B4	5	#9	STR.	37' - 11"	645
B5	40	#5	STR.	50' - 0"	2,086
B6	12	#4	STR.	34' - 0"	273
B7	5	#4	STR.	23' - 2"	77
B8	10	#4	STR.	10' - 2"	68
B9	26	#4	STR.	3' - 5"	59
B10	8	#5	STR.	3' - 8"	31
B11	15	#4	STR.	2' - 11"	29
D1	12	#6	STR.	3' - 6"	63
K1	30	#4	STR.	34' - 0"	681
K2	8	#4	STR.	18' - 3"	98
K3	16	#4	STR.	3' - 8"	39
S1	101	#5	2	11' - 11"	1,255
S2	122	#5	3	3' - 7"	456
S3	101	#5	2	10' - 9"	1,132
S4	122	#5	3	2' - 5"	308
S5	28	#5	2	10' - 10"	316
S6	28	#5	2	9' - 8"	282
S7	60	#4	4	6' - 6"	261
U1	60	#4	5	5' - 2"	207
U2	80	#4	5	6' - 5"	343
V1	120	#5	STR.	8' - 6"	1,064
V2	40	#5	STR.	8' - 8"	362
V3	40	#5	STR.	8' - 1"	337
V4	4	#5	STR.	4' - 2"	17
V5	4	#5	STR.	3' - 8"	15

REINFORCING STEEL	LBS.	13,332
CLASS A CONCRETE		
POUR 1 - CAP	C.Y.	62.1
POUR 2 - BACKWALL & WINGS	C.Y.	19.6
TOTAL	C.Y.	81.7
PILE DRIVING EQUIPMENT SETUP FOR HP 12x53 STEEL PILES	EA.	15
HP 12x53 STEEL PILES NO. 15	LIN. FT.	1125
PILE REDRIVES	EA.	8



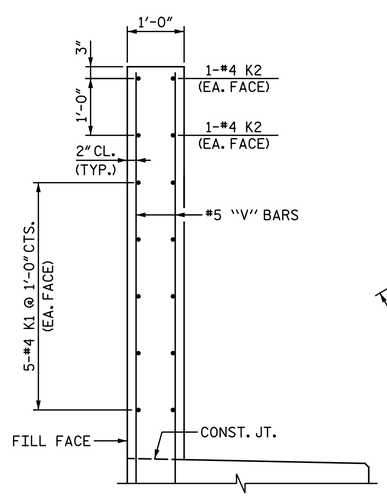
DETAIL "E"

THE PVC SLEEVE THROUGH THE BACKWALL SHALL BE LOCATED BY THE ENGINEER. THE K3 BARS MAY BE SHIFTED AS NECESSARY TO CLEAR TOP OF CAP.

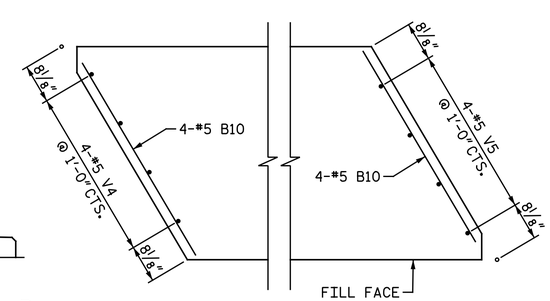


PARTIAL SECTION B-B

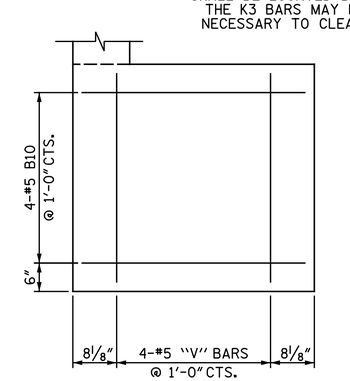
V1 BARS NOT SHOWN FOR CLARITY.



PARTIAL SECTION D-D



PLAN



END VIEW

END OF CAP

PROJECT NO. I-5883

HARNETT COUNTY

STATION: 27+09.19 -Y16-

DocuSigned by: Amanda H. Sharpe 81D6FFF4ECEF4D2...

4/8/2020

NORTH CAROLINA PROFESSIONAL SEAL 043878 ENGINEER AMANDA H. SHARPE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1 DETAILS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Michael Baker INTERNATIONAL

Michael Baker Engineering
8000 Regency Parkway, Suite 600
Cary, North Carolina 27518
NC License No. : F-1084

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

SHEET NO. S1-24

TOTAL SHEETS 35

DRAWN BY : N. B. SPEAKS DATE : 1-10-19
CHECKED BY : A. H. SHARPE DATE : 3-26-20