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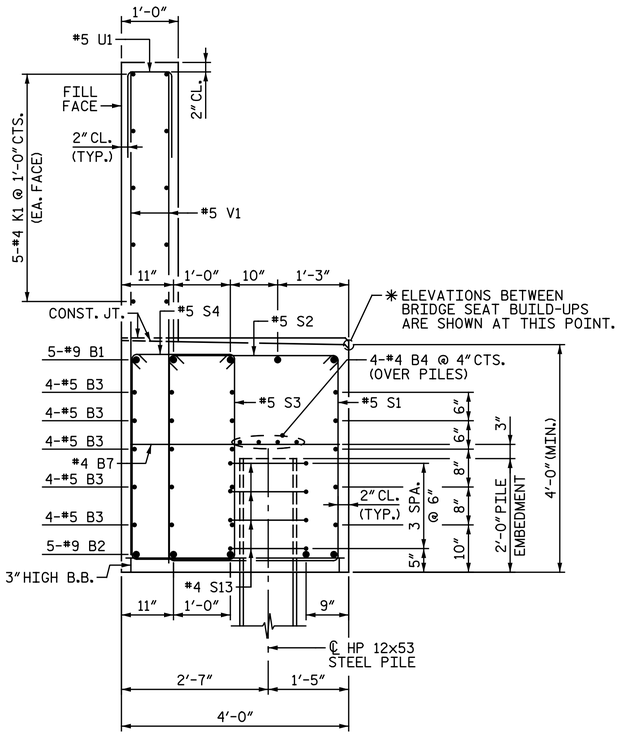
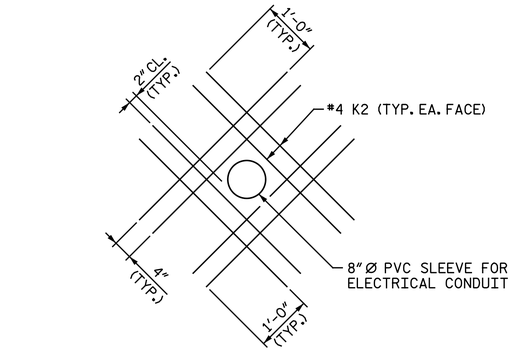
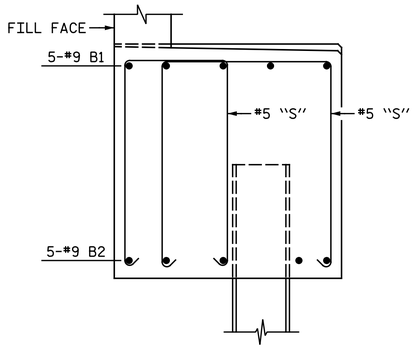


SECTION A-A



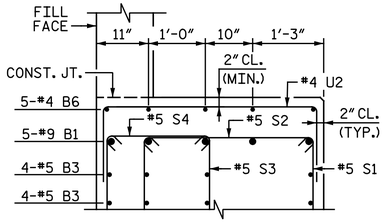
DETAIL "E"

THE PVC SLEEVE THROUGH THE BACKWALL SHALL BE LOCATED BY THE ENGINEER.



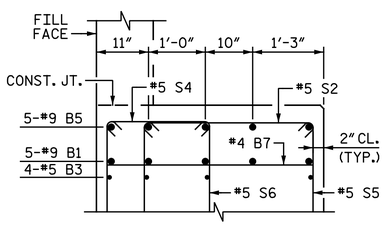
PARTIAL SECTION D-D

ONLY #9 "B" & "S" BARS SHOWN FOR CLARITY (TYP. EA. PILE)



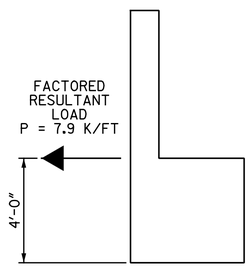
PARTIAL SECTION B-B

"K" & "V" BARS NOT SHOWN FOR CLARITY



PARTIAL SECTION C-C

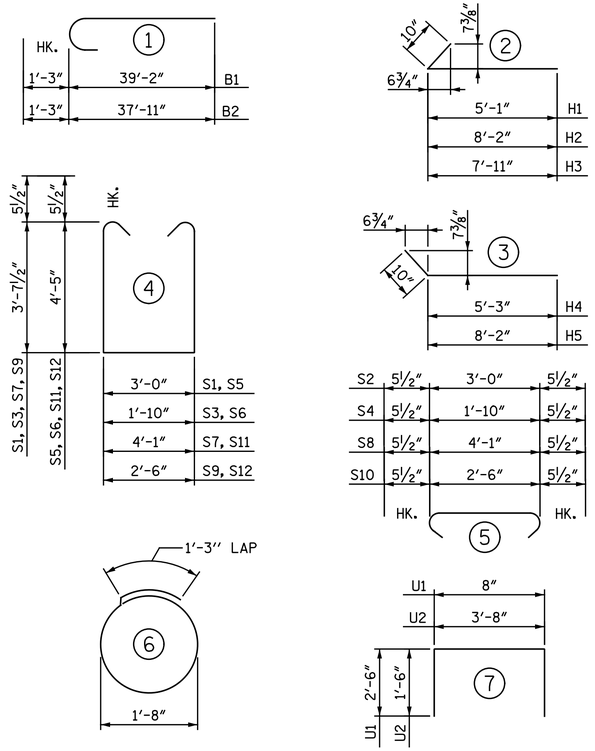
"K" & "V" BARS NOT SHOWN FOR CLARITY



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.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

NOTE:

FOR "PILE SPLICE DETAILS", SEE "END BENT 2 DETAILS" SHEET.

BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	1	40' - 5"	1,374
B2	10	#9	1	39' - 2"	1,332
B3	40	#5	STR.	36' - 3"	1,512
B4	8	#4	STR.	36' - 0"	192
B5	10	#9	STR.	23' - 1"	785
B6	5	#4	STR.	12' - 5"	41
B7	26	#4	STR.	3' - 8"	64
H1	4	#5	2	5' - 11"	25
H2	23	#5	2	9' - 0"	216
H3	23	#5	2	8' - 9"	210
H4	4	#5	3	6' - 1"	25
H5	50	#5	3	9' - 0"	469
K1	20	#4	STR.	36' - 0"	481
K2	16	#4	STR.	3' - 8"	39
S1	48	#5	4	11' - 2"	559
S2	90	#5	5	3' - 11"	368
S3	48	#5	4	10' - 0"	501
S4	90	#5	5	2' - 9"	258
S5	52	#5	4	12' - 9"	692
S6	52	#5	4	11' - 7"	628
S7	1	#5	4	12' - 3"	13
S8	2	#5	5	5' - 0"	10
S9	1	#5	4	10' - 8"	11
S10	2	#5	5	3' - 5"	7
S11	1	#5	4	13' - 10"	14
S12	1	#5	4	12' - 3"	13
S13	40	#4	6	6' - 6"	174
U1	59	#5	7	5' - 8"	349
U2	9	#4	7	6' - 8"	40
V1	118	#5	STR.	8' - 9"	1,077
V2	30	#5	STR.	10' - 10"	339
V3	30	#5	STR.	11' - 9"	368

REINFORCING STEEL		LBS. 12,186
CLASS A CONCRETE		
POUR 1 - CAP & LOWER PART OF WINGS	C.Y.	47.7
POUR 2 - BACKWALL & UPPER PART OF WINGS	C.Y.	18.4
TOTAL	C.Y.	66.1
PILE DRIVING EQUIPMENT SETUP FOR HP 12x53 STEEL PILES	EA.	10
HP 12x53 STEEL PILES NO. 10	LIN. FT.	700
PILE REDRIVES	EA.	5

PROJECT NO. I-5878

HARNETT COUNTY

STATION: 26+05.28 -Y14-

DocuSigned by: Amanda Sharpe 81D6FFFF4ECEF4D2...

4/10/2020

NORTH CAROLINA PROFESSIONAL SEAL 043878 ENGINEER AMANDA H. SHARPE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE

END BENT 1 DETAILS

DRAWN BY : M. D. MAYHEW DATE : 10-1-19
CHECKED BY : A. H. SHARPE DATE : 3-2-20

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Michael Baker INTERNATIONAL

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SI-25
1			3			TOTAL SHEETS
2			4			35