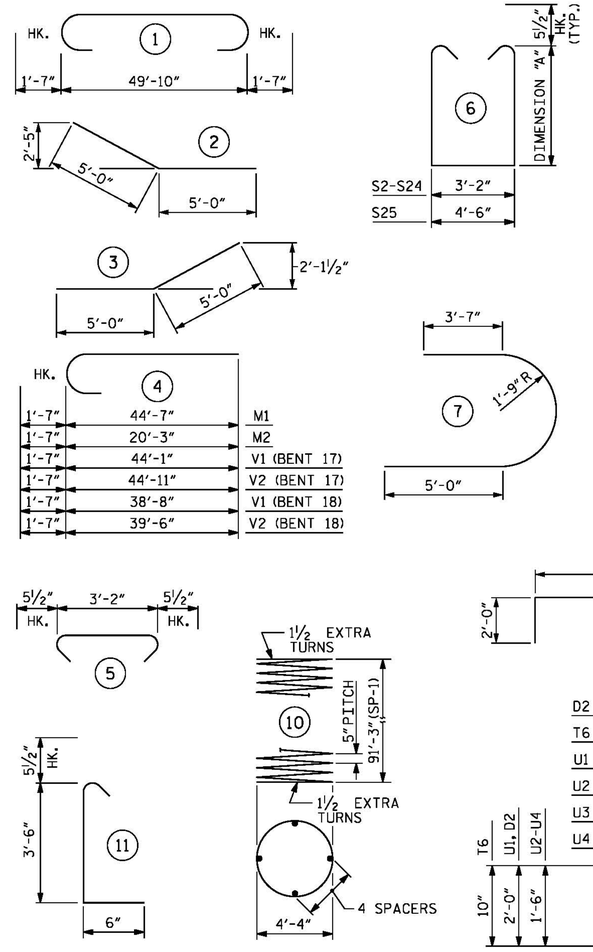
NOTES

FOR NOTES, SEE SHEET 1 OF 5.

BAR TYPES



DIMENSION "A"	
BAR	"A"
S2	7'-5½"
S3	7'-4"
S4	7'-1½"
S5	6'-11"
S6	6'-8"
S7	6'-5½"
S8	6'-3"
S9	6'-0½"
S10	5'-9½"
S11	5'-7"
S12	5'-4½"
S13	5'-2"
S14	7'-5"
S15	7'-3"
S16	7'-1"
S17	6'-10"
S18	6'-8"
S19	6'-5½"
S20	6'-3"
S21	6'-1"
S22	5'-10½"
S23	5'-8"
S24	5'-5½"
S25	7'-5½"

ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 18

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#11	1	53'-0"	2816	T1	93	#9	STR	54'-4"	17180
B2	10	#11	STR	49'-10"	2648	T2	134	#9	STR	24'-4"	11086
B3	8	#10	STR	40'-4"	1388	T3	83	#6	STR	24'-4"	3034
B4	6	#10	STR	42'-0"	1084	T4	20	#6	STR	54'-4"	1632
B5	8	#10	2	10'-0"	344	T5	138	#5	STR	7'-2"	1032
B6	8	#10	3	10'-0"	344	T6	316	#5	9	8'-6"	2801
B7	14	#7	STR	49'-10"	1426						
B8	2	#7	STR	47'-4"	193	U1	50	#4	9	8'-6"	284
B9	2	#7	STR	44'-8"	183	U2	10	#4	9	7'-4"	49
B10	40	#4	STR	6'-3"	167	U3	5	#4	9	8'-2"	27
B11	10	#4	STR	5'-2"	35	U4	5	#4	9	8'-0"	27
B12	24	#4	STR	4'-6"	72						
						V1	36	#11	4	40'-3"	7699
D1	26	#6	STR	39'-4"	1536	V2	36	#11	4	41'-1"	7858
D2	48	#5	9	10'-4"	517	V3	72	#11	8	21'-2"	8097
M1	144	#11	4	46'-2"	35321						
M2	144	#11	4	21'-10"	16704						
M3	432	#11	STR	50'-0"	114761						
M4	144	#11	STR	25'-8"	19637						
S1	110	#5	5	4'-1"	468						
S2	66	#5	6	19'-0"	1308						
S3	2	#5	6	18'-9"	39						
S4	2	#5	6	18'-4"	38						
S5	2	#5	6	17'-11"	37						
S6	2	#5	6	17'-5"	36						
S7	2	#5	6	17'-0"	35						
S8	2	#5	6	16'-7"	35						
S9	2	#5	6	16'-2"	34						
S10	2	#5	6	15'-8"	33						
S11	2	#5	6	15'-3"	32	SP-1	8	*	10	2,987'-1"	24,924
S12	2	#5	6	14'-10"	31						
S13	2	#5	6	14'-5"	30						
S14	2	#5	6	18'-11"	39						
S15	2	#5	6	18'-7"	39						
S16	2	#5	6	18'-3"	38						
S17	2	#5	6	17'-9"	37						
S18	2	#5	6	17'-5"	36						
S19	2	#5	6	17'-0"	35						
S20	2	#5	6	16'-7"	35						
S21	2	#5	6	16'-3"	34						
S22	2	#5	6	15'-10"	33						
S23	2	#5	6	15'-5"	32						
S24	2	#5	6	15'-0"	31						
S25	24	#5	6	20'-4"	509						
S26	292	#5	7	14'-1"	4289						
S27	584	#5	11	4'-6"	2741						

EPOXY COATED REINFORCING STEEL LBS. 270,066

EPOXY COATED SPIRAL COLUMN REINFORCING STEEL LBS. 24,924

CLASS "AA" CONCRETE BREAKDOWN

POUR #2 - FOOTING	C.Y.	412.4
POUR #3 - STRUT	C.Y.	61.5
POUR #4 - COLUMNS	C.Y.	74.6
POUR #5 - CAP	C.Y.	74.0
CLASS "AA" CONCRETE	C.Y.	622.5

5'-0" Ø DRILLED PIERS QUANTIES:

DRILLED PIER	LIN. FT.	733.9
POUR 1 - DRILLED PIER	C.Y.	533.8
PERMANENT STEEL CASING FOR 5'-0" Ø DRILLED PIERS	LIN. FT.	253.9
CSL TUBES	LIN. FT.	3,730

* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN DEFORMED BAR.

PROJECT NO. B-4929

PENDER COUNTY

STATION: 38+13.81 -L2-

SHEET 5 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENTS 17 AND 18 BILL OF MATERIALS

NORTH CAROLINA PROFESSIONAL SEAL 032967 ENGINEER JASON R. DOUGHTY

5/12/16

DocuSigned by: Jason R Doughty
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PARSONS BRINCKERHOFF
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SHEET NO. S-184

TOTAL SHEETS 278

DESIGNED BY:	E. ULLMER	DATE :	MAR 2016
DRAWN BY:	M. HOBBS	DATE :	MAR 2016
CHECKED BY:	B. LOFLIN	DATE :	MAR 2016
DESIGN ENGINEER OF RECORD:	J. DOUGHTY	DATE :	MAY 2016

5/10/2016
400_361_B4929_SMU_IB17_5.dgn