

**BILL OF MATERIAL**

BENT 8											
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	10	*11	1	53'-0"	2816	T1	188	*9	STR	19'-4"	12358
B2	10	*11	STR	49'-10"	2648	T2	136	*7	STR	19'-4"	5374
B3	8	*10	STR	40'-4"	1388	T3	72	*5	STR	19'-4"	1452
B4	6	*10	STR	42'-4"	1093	T4	312	*5	7	6'-10"	2224
B5	8	*10	2	10'-4"	356	T5	110	*5	STR	7'-2"	822
B6	14	*7	STR	49'-10"	1426						
B7	2	*7	STR	47'-8"	195	U1	66	*4	7	8'-6"	375
B8	2	*7	STR	45'-0"	184	U2	10	*4	7	7'-4"	49
B9	10	*4	STR	10'-11"	73	U3	5	*4	7	8'-0"	27
B10	10	*4	STR	21'-10"	146	U4	5	*4	7	8'-2"	27
B11	10	*4	STR	5'-5"	36						
B12	24	*4	STR	4'-6"	72	V1	72	*11	3	24'-4"	9308
						V2	72	*11	9	19'-7"	7491
D1	42	*10	STR	39'-4"	7109						
D2	76	*5	7	10'-4"	819						
D3	14	*5	5	17'-11"	262						
M1	160	*11	3	47'-7"	40450	EPOXY COATED REINFORCING STEEL LBS. 281,578					
M2	160	*11	3	31'-7"	26848						
M3	480	*11	STR	48'-0"	122412	SP-1	8	*	8	2389'-5"	19937
M4	160	*11	STR	31'-4"	26636						
S1	110	*5	4	4'-1"	468	EPOXY COATED SPIRAL DRILLED PIER REINFORCING STEEL LBS. 19,937					
S2	66	*5	5	19'-0"	1308						
S3	4	*5	5	18'-11"	79	CLASS "AA" CONCRETE BREAKDOWN					
S4	4	*5	5	18'-6"	77	POUR #2 - FOOTING C.Y. 179.8					
S5	4	*5	5	18'-1"	75	POUR #3 - STRUT C.Y. 62.7					
S6	4	*5	5	17'-8"	74	POUR #4 - COLUMNS C.Y. 35.3					
S7	4	*5	5	17'-3"	72	POUR #5 - CAP C.Y. 74.7					
S8	4	*5	5	16'-10"	70	CLASS "AA" CONCRETE C.Y. 352.5					
S9	4	*5	5	16'-5"	68	4'-0" Ø DRILLED PIERS QUANTITIES:					
S10	4	*5	5	16'-0"	67	DRILLED PIER LIN. FT. 765.9					
S11	4	*5	5	15'-7"	65	POUR 1 - DRILLED PIER C.Y. 356.5					
S12	4	*5	5	15'-2"	63	PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS LIN. FT. 197.9					
S13	4	*5	5	14'-9"	62	CSL TUBES LIN. FT. 3111.7					
S14	24	*5	5	20'-4"	509						
S15	168	*5	6	14'-1"	2468						
S16	336	*5	10	4'-6"	1577						

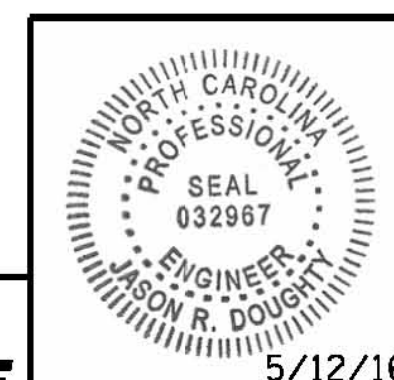
BENT 9											
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	10	*11	1	53'-0"	2816	T1	188	*9	STR	19'-4"	12358
B2	10	*11	STR	49'-10"	2648	T2	136	*7	STR	19'-4"	5374
B3	8	*10	STR	40'-4"	1388	T3	72	*5	STR	19'-4"	1452
B4	6	*10	STR	42'-4"	1093	T4	312	*5	7	6'-10"	2224
B5	8	*10	2	10'-4"	356	T5	110	*5	STR	7'-2"	822
B6	14	*7	STR	49'-10"	1426						
B7	2	*7	STR	47'-8"	195	U1	66	*4	7	8'-6"	375
B8	2	*7	STR	45'-0"	184	U2	10	*4	7	7'-4"	49
B9	10	*4	STR	10'-11"	73	U3	5	*4	7	8'-0"	27
B10	10	*4	STR	21'-10"	146	U4	5	*4	7	8'-2"	27
B11	10	*4	STR	5'-5"	36						
B12	24	*4	STR	4'-6"	72	V1	72	*11	3	28'-0"	10711
						V2	72	*11	9	19'-7"	7491
D1	42	*10	STR	39'-4"	7109						
D2	76	*5	7	10'-4"	819						
D3	14	*5	5	17'-11"	262						
M1	160	*11	3	47'-7"	40450	EPOXY COATED REINFORCING STEEL LBS. 283,655					
M2	160	*11	3	31'-7"	26848						
M3	480	*11	STR	48'-0"	122412	SP-1	8	*	8	2414'-2"	20143
M4	160	*11	STR	31'-4"	26636						
S1	110	*5	4	4'-1"	468	EPOXY COATED SPIRAL DRILLED PIER REINFORCING STEEL LBS. 20,143					
S2	66	*5	5	19'-0"	1308						
S3	4	*5	5	18'-11"	79	CLASS "AA" CONCRETE BREAKDOWN					
S4	4	*5	5	18'-6"	77	POUR #2 - FOOTING C.Y. 179.8					
S5	4	*5	5	18'-1"	75	POUR #3 - STRUT C.Y. 62.7					
S6	4	*5	5	17'-8"	74	POUR #4 - COLUMNS C.Y. 44.2					
S7	4	*5	5	17'-3"	72	POUR #5 - CAP C.Y. 74.7					
S8	4	*5	5	16'-10"	70	CLASS "AA" CONCRETE C.Y. 361.4					
S9	4	*5	5	16'-5"	68	4'-0" Ø DRILLED PIERS QUANTITIES:					
S10	4	*5	5	16'-0"	67	DRILLED PIER LIN. FT. 773.9					
S11	4	*5	5	15'-7"	65	POUR 1 - DRILLED PIER C.Y. 360.2					
S12	4	*5	5	15'-2"	63	PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS LIN. FT. 229.9					
S13	4	*5	5	14'-9"	62	CSL TUBES LIN. FT. 3143.7					
S14	24	*5	5	20'-4"	509						
S15	196	*5	6	14'-1"	2879						
S16	392	*5	10	4'-6"	1840						

BENT 10											
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	10	*11	1	53'-0"	2816	T1	188	*9	STR	19'-4"	12358
B2	10	*11	STR	49'-10"	2648	T2	136	*7	STR	19'-4"	5374
B3	8	*10	STR	40'-4"	1388	T3	72	*5	STR	19'-4"	1452
B4	6	*10	STR	42'-4"	1093	T4	312	*5	7	6'-10"	2224
B5	8	*10	2	10'-4"	356	T5	110	*5	STR	7'-2"	822
B6	14	*7	STR	49'-10"	1426						
B7	2	*7	STR	47'-8"	195	U1	66	*4	7	8'-6"	375
B8	2	*7	STR	45'-0"	184	U2	10	*4	7	7'-4"	49
B9	10	*4	STR	10'-11"	73	U3	5	*4	7	8'-0"	27
B10	10	*4	STR	21'-10"	146	U4	5	*4	7	8'-2"	27
B11	10	*4	STR	5'-5"	36						
B12	24	*4	STR	4'-6"	72	V1	72	*11	3	33'-4"	12751
						V2	72	*11	9	19'-7"	7491
D1	42	*10	STR	39'-4"	7109						
D2	76	*5	7	10'-4"	819						
D3	14	*5	5	17'-11"	262						
M1	160	*11	3	49'-7"	42150	EPOXY COATED REINFORCING STEEL LBS. 290,155					
M2	160	*11	3	33'-7"	28549						
M3	480	*11	STR	48'-0"	122412	SP-1	8	*	8	2463'-8"	20557
M4	160	*11	STR	31'-4"	26636						
S1	110	*5	4	4'-1"	468	EPOXY COATED SPIRAL DRILLED PIER REINFORCING STEEL LBS. 20,557					
S2	66	*5	5	19'-0"	1308						
S3	4	*5	5	18'-11"	79	CLASS "AA" CONCRETE BREAKDOWN					
S4	4	*5	5	18'-6"	77	POUR #2 - FOOTING C.Y. 179.8					
S5	4	*5	5	18'-1"	75	POUR #3 - STRUT C.Y. 62.7					
S6	4	*5	5	17'-8"	74	POUR #4 - COLUMNS C.Y. 57.1					
S7	4	*5	5	17'-3"	72	POUR #5 - CAP C.Y. 74.7					
S8	4	*5	5	16'-10"	70	CLASS "AA" CONCRETE C.Y. 374.3					
S9	4	*5	5	16'-5"	68	4'-0" Ø DRILLED PIERS QUANTITIES:					
S10	4	*5	5	16'-0"	67	DRILLED PIER LIN. FT. 789.9					
S11	4	*5	5	15'-7"	65	POUR 1 - DRILLED PIER C.Y. 367.7					
S12	4	*5	5	15'-2"	63	PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS LIN. FT. 229.9					
S13	4	*5	5	14'-9"	62	CSL TUBES LIN. FT. 3207.7					
S14	24	*5	5	20'-4"	509						
S15	240	*5	6	14'-1"	3525						
S16	480	*5	10	4'-6"	2253						

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-20 OR D-31 COLD DRAWN WIRE OR #5 PLAIN DEFORMED BAR.

**NOTES:**  
 FOR NOTES, SEE SHEET 1 OF 5.  
 FOR BAR TYPES, SEE SHEET 4 OF 5.

PROJECT NO. B-4929  
PENDER COUNTY  
 STATION: 38+13.81 -L2-  
 SHEET 5 OF 5



**PARSONS BRINCKERHOFF**  
 434 FAYETTEVILLE STREET  
 SUITE 1500  
 RALEIGH, NC 27601  
 LICENSE NO. F-0165

DocuSigned by:  
 Jason R. Doughty  
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENTS 6 THROUGH 10 BILL OF MATERIALS					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-164  
 TOTAL SHEETS 278

DESIGNED BY: J. BORUTA DATE: MAR 2016  
 DRAWN BY: K. WHITE DATE: MAR 2016  
 CHECKED BY: J. DOUGHTY DATE: MAR 2016  
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016

5/10/2016 400\_321\_B4929\_SMU\_IB6\_5.dgn