

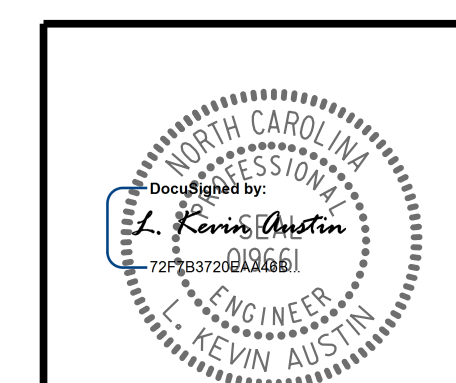
ALL BAR DIMENSIONS ARE OUT TO OUT
 ** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.
 FOR PILE SPLICE DETAILS, SEE "END BENT 1" SHEET 3 OF 3.

BILL OF MATERIAL					
BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	18	#10	STR	47'-9"	3698
B2	24	#5	STR	46'-9"	1170
B3	12	#9	2	45'-11"	1873
B4	6	#9	STR	55'-10"	1139
B5	36	#4	STR	4'-1"	98
M1	80	#10	2	8'-0"	2754
S1	188	#5	3	12'-4"	2418
S2	114	#5	3	13'-6"	1605
T1	272	#6	1	8'-6"	3473
U1	68	#4	4	7'-0"	318
U2	8	#4	4	6'-10"	37
V1	80	#10	2	22'-0"	7573
TOTAL REINFORCING STEEL					26156 lbs.
SPIRAL COLUMN REINFORCING STEEL (SP)					
SP-1	8	**	5	775'-10"	4146
TOTAL SPIRAL COLUMN REINFORCING STEEL					4146 lbs.
CLASS "A" CONCRETE - CU. YARDS					
POUR 1 - FOOTINGS					50.0 CU. YDS.
POUR 2 - COLUMNS					53.2 CU. YDS.
POUR 3 - CAP (LT.)					49.0 CU. YDS.
POUR 4 - CAP (RT.)					59.1 CU. YDS.
TOTAL CLASS "A" CONCRETE					211.3 CU. YDS.
HP12X53 STEEL PILES					
40 PILES REQUIRED - LIN. FEET					2200
PILE DRIVING EQUIPMENT					
SETUP FOR HP12X53 STEEL PILES					40 EA.
PILE REDRIVES					20 EA.
FOUNDATION EXCAVATION FOR BENT					LUMP SUM

PLANS PREPARED BY:

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PROJECT NO. U-2519BB
 CUMBERLAND COUNTY
 STATION: 80+65.32 -Y17- POT

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT 1

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

SHEET NO.
 S-33
 TOTAL SHEETS
 41

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DRAWN BY: M. D. METZGER DATE: 2/22
 CHECKED BY: L. K. AUSTIN DATE: 2/22
 DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE: 2/22

PLAN OF COLUMNS AND FOOTINGS
 (DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH FOOTING)

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

3/29/2022