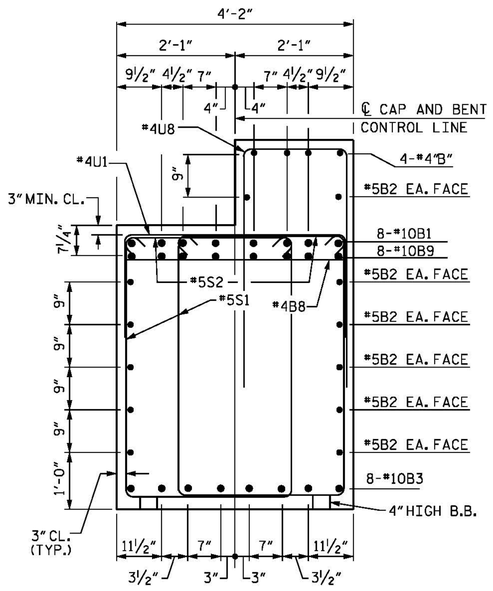
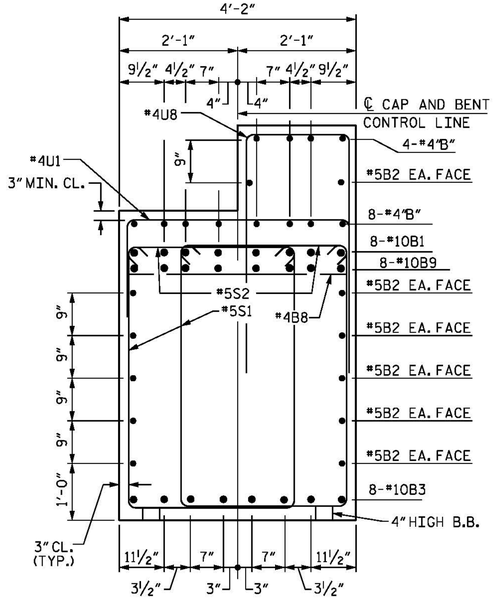
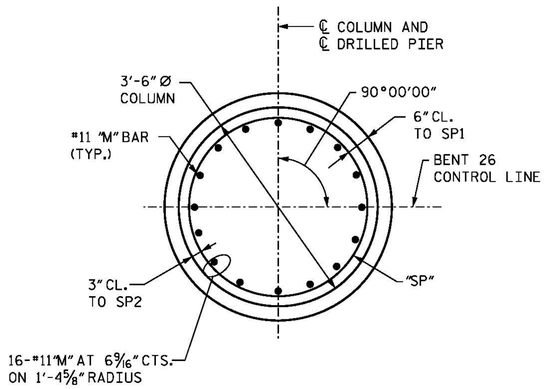


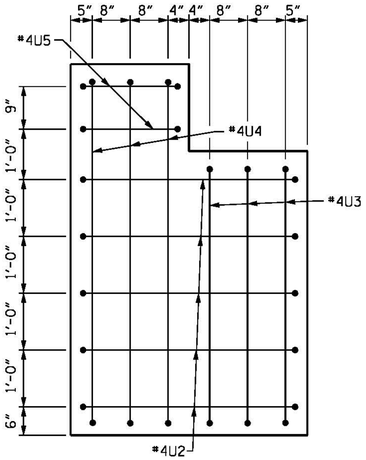
SECTION A-A



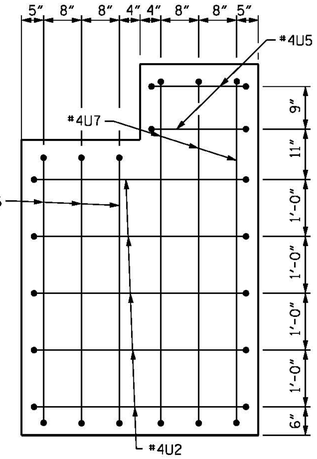
SECTION B-B



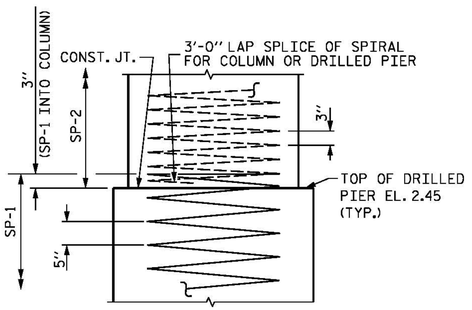
COLUMN AND DRILLED PIER DETAIL



VIEW X-X



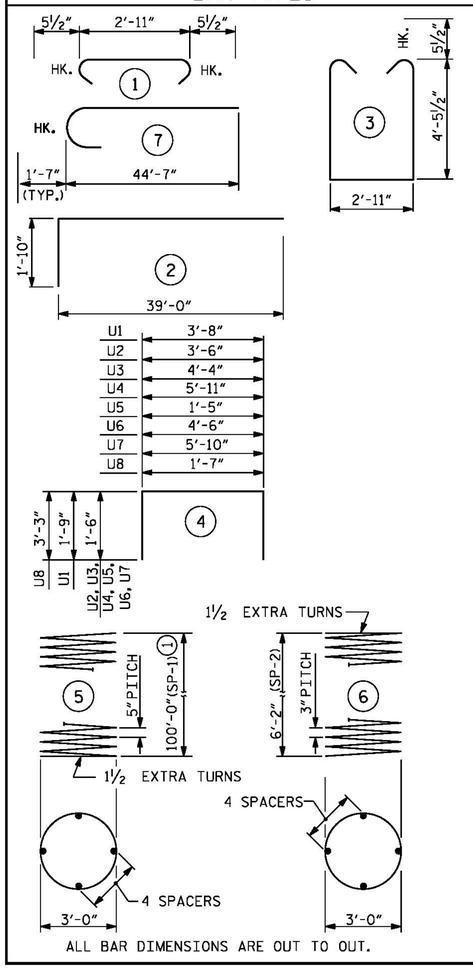
VIEW Y-Y



CONSTRUCTION JOINT DETAIL

"M" BARS NOT SHOWN FOR CLARITY

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 26

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#10	2	40'-10"	2811
B2	24	#5	STR	33'-11"	849
B3	16	#10	STR	38'-1"	2622
B4	4	#4	STR	23'-6"	63
B5	8	#4	STR	9'-9"	52
B6	8	#4	STR	10'-2"	54
B7	16	#4	STR	23'-2"	248
B8	16	#4	STR	3'-8"	39
B9	16	#10	STR	39'-0"	2685
M1	128	#11	STR	44'-7"	30,320
M2	64	#11	7	46'-2"	15,698
S1	208	#5	3	12'-9"	2766
S2	208	#5	1	3'-10"	832
U1	80	#4	4	7'-2"	383
U2	10	#4	4	6'-6"	43
U3	3	#4	4	7'-4"	15
U4	3	#4	4	8'-11"	18
U5	4	#4	4	4'-5"	12
U6	3	#4	4	7'-3"	15
U7	3	#4	4	8'-10"	18
U8	80	#4	4	8'-1"	432
SP1	4	*	5	2243'-6"	9360
SP2	4	**	6	251'-1"	671

EPOXY COATED REINFORCING STEEL — LBS. 59,975

EPOXY COATED SPIRAL COLUMN REINFORCING STEEL — LBS. 10,031

CLASS "AA" CONCRETE BREAKDOWN

POUR #2 - COLUMNS	8.4 C.Y.
POUR #3 - CAP	67.1 C.Y.
CLASS "AA" CONCRETE	75.5 C.Y.

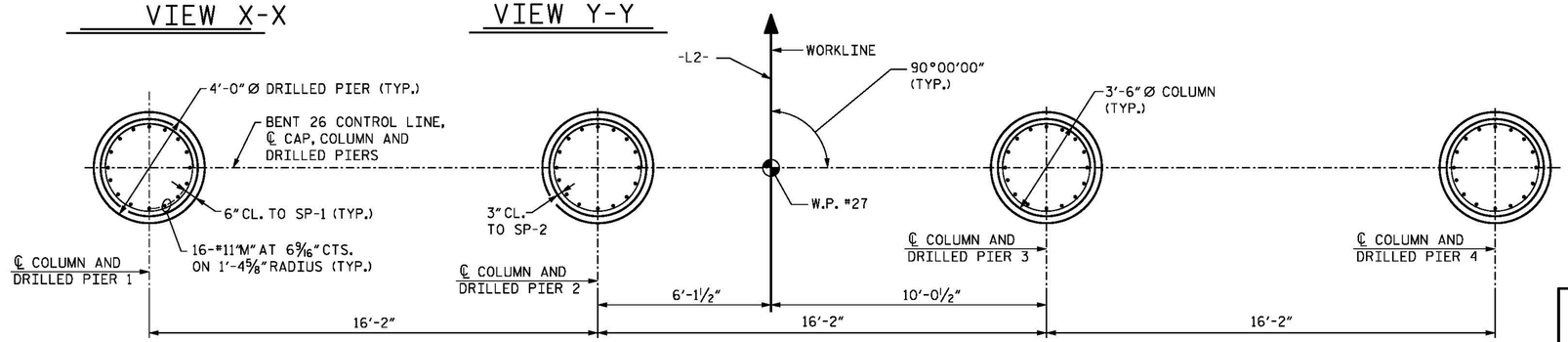
DRILLED PIER QUANTITIES

POUR #1 - DRILLED PIER CONCRETE	187.0 C.Y.
4'-0" Ø DRILLED PIERS	401.8 L.F.
PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS	69.8 L.F.
SID INSPECTIONS	1 EA.
CSL TUBES	1631.2 L.F.

** THE SP-2 EPOXY COATED SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

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

(1) CONTRACTOR MAY PROVIDE 3'-0" MIN. SPLICE AT MID HEIGHT OF EPOXY COATED SPIRAL REINFORCING STEEL. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR SPLICES.



PLAN OF COLUMNS AND DRILLED PIERS

(REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN AND DRILLED PIER)

PROJECT NO. B-4929

PENDER COUNTY

STATION: 38+13.81 -L2-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 26

SECTIONS AND DETAILS

DESIGNED BY:	M. WAGNER	DATE :	JAN. 2016
DRAWN BY:	B. CALDWELL	DATE :	FEB. 2016
CHECKED BY:	J. SHERMAN	DATE :	MAR. 2016
DESIGN ENGINEER OF RECORD:	J. DOUGHTY	DATE :	MAY 2016

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

NORTH CAROLINA PROFESSIONAL SEAL 032967 ENGINEER JASON R. DOUGHTY
5/12/16
DocuSigned by: Jason R Doughty
00F1C86448274F7...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-197
1			3			TOTAL SHEETS
2			4			278

5/12/2016
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