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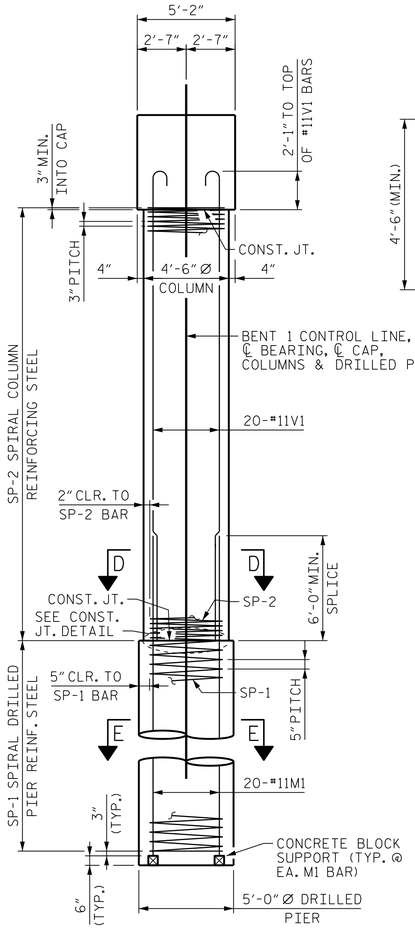
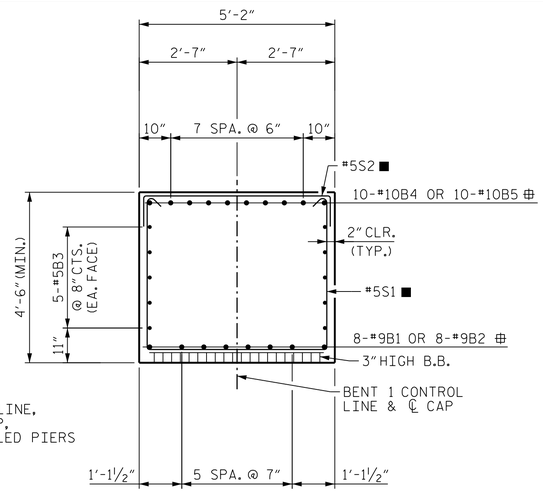
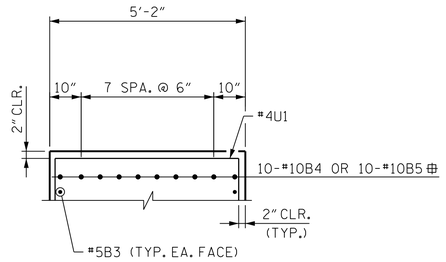


END ELEVATION



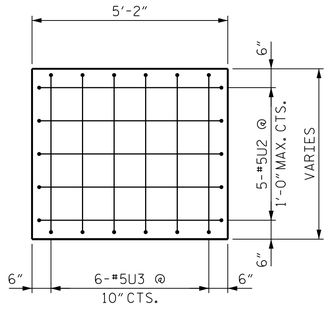
SECTION A-A



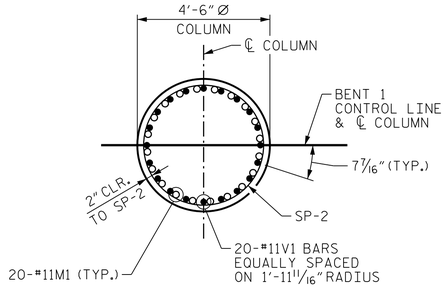
SECTION B-B

■ = INVERT ALTERNATE STIRRUPS

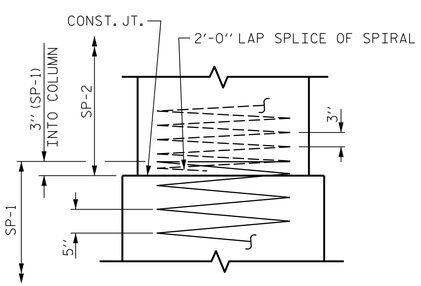
⊞ = ALTERNATE LOCATION OF SPLICE EVERY OTHER BAR



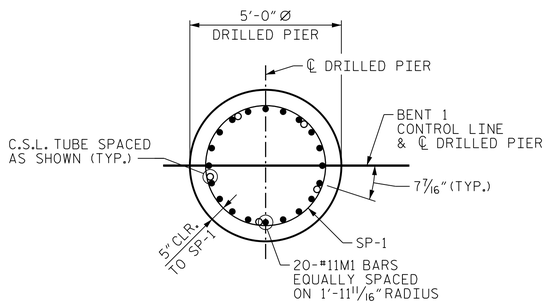
VIEW C-C



SECTION D-D

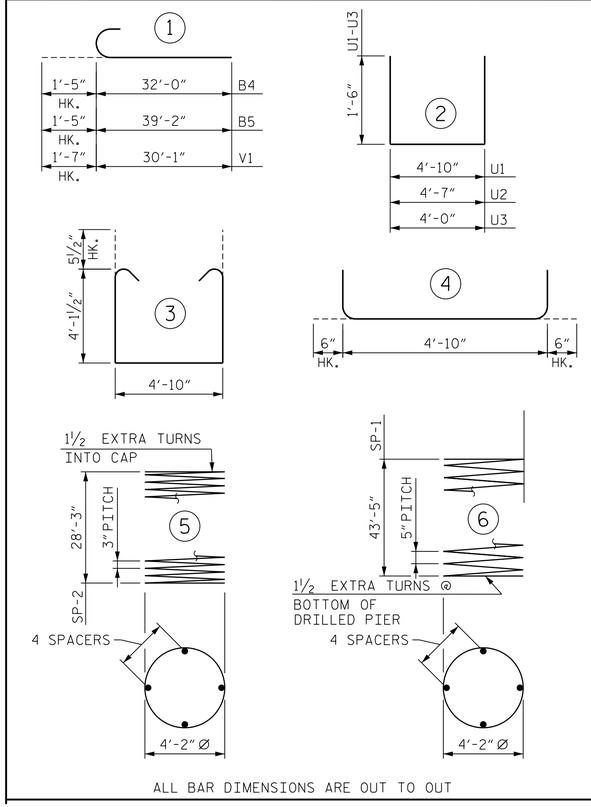


CONSTRUCTION JOINT DETAIL



SECTION E-E

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	STR	39'-6"	1075
B2	8	#9	STR	29'-9"	809
B3	20	#5	STR	34'-1"	711
B4	10	#10	1	33'-5"	1438
B5	10	#10	1	40'-7"	1746
M1	80	#11	STR	52'-2"	22173
S1	79	#5	3	14'-0"	1154
S2	79	#5	4	5'-10"	481
U1	36	#4	2	7'-10"	188
U2	10	#5	2	7'-7"	79
U3	12	#5	2	7'-0"	88
V1	80	#11	1	31'-8"	13460

REINFORCING STEEL LBS. 43,402

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
SP-1	4	**	6	1368'-10"	5711
SP-2	4	*	5	1478'-6"	3951

SPIRAL REINF. STEEL LBS. 9,662

CLASS A CONCRETE	
POUR 2 (COLUMNS)	CU. YDS. 66.0
POUR 3 (CAP)	CU. YDS. 57.1
TOTAL CLASS A CONCRETE	CU. YDS. 123.1
DRILLED PIER CONCRETE	
POUR 1 (DRILLED PIERS)	CU. YDS. 127.0
CSL TUBES	LIN. FT. 903.4
DRILLED PIERS IN SOIL	LIN. FT. 162.6
DRILLED PIERS NOT IN SOIL	LIN. FT. 12.0

* THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

PROJECT NO. B-3186/B-5898

HAYWOOD COUNTY

STATION: 27+54.43 -Y1RT-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE BENT 1 SECTIONS AND DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S02-40
1	--	--	3	--	--	TOTAL SHEETS
2	--	--	4	--	--	48

NORTH CAROLINA PROFESSIONAL SEAL 040791 ENGINEER W. BRIAN WATSON

W. Brian Watson 1/24/2022

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DES BY:	R. BECK	DATE :	05/21
DES CHK:	S. NIFONG	DATE :	06/21
DWG BY:	D. CARTER	DATE :	05/21
CHK BY:	R. BECK	DATE :	06/21

PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.plt PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl
USER: PPETERSO DATE: 1/24/2022 TIME: 1:35:09 PM
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