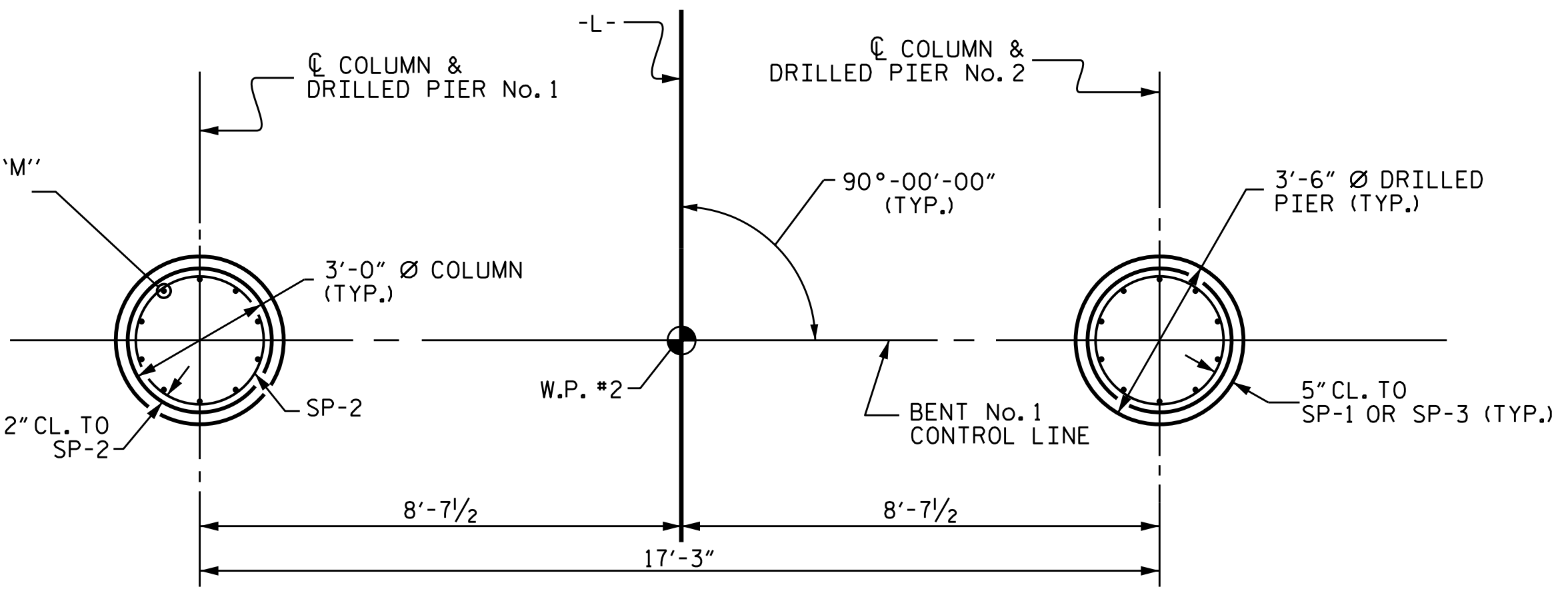
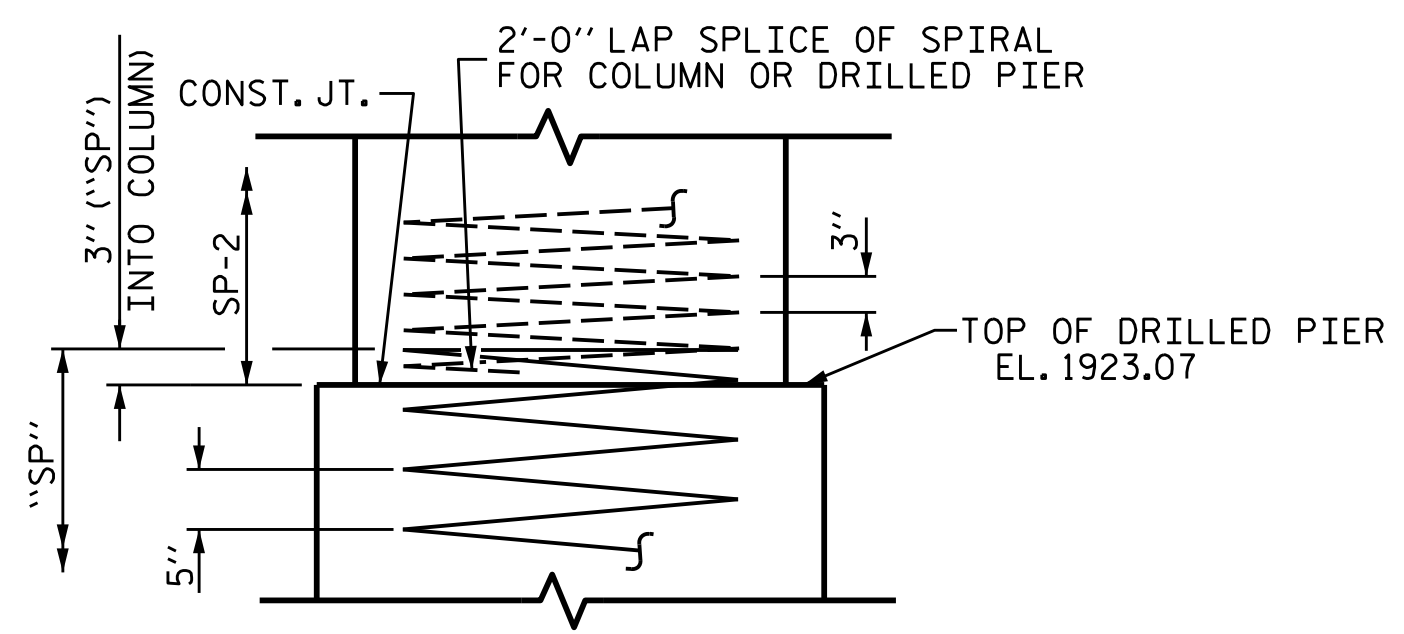


BILL OF MATERIAL					
BENT No. 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#10	STR	28'-5"	734
B2	8	#9	1	30'-9"	836
B3	10	#4	STR	28'-5"	190
B4	6	#4	STR	11'-3'	45
M1	10	#11	STR	26'-1"	1386
M2	10	#11	STR	20'-1"	1067
S1	51	#5	3	12'-0"	638
U1	27	#4	4	6'-4"	114
U2	6	#4	4	6'-9"	27
U3	8	#4	4	6'-2"	33
V1	20	#11	2	18'-9"	1992
REINFORCING STEEL				7062 LBS.	
SPIRAL COLUMN REINFORCING STEEL					
SP-1	1	***	6	324'-11"	339
SP-2	2	***	5	523'-11"	700
SP-3	1	***	6	201'-7"	210
TOTAL SPIRAL COLUMN REINFORCING STEEL				1249 LBS.	
** THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
*** THE SP-1 & SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.					
CLASS A CONCRETE BREAKDOWN					
POUR #2 - COLUMNS				7.9 CU. YDS.	
POUR #3 - CAP				16.9 CU. YDS.	
TOTAL CLASS A CONCRETE				24.8 CU. YDS.	
DRILLED PIERS:					
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)				9.3 CU. YDS.	
3'-6" Ø DRILLED PIERS IN SOIL				7.16 LIN. FT.	
3'-6" Ø DRILLED PIERS NOT IN SOIL				19.00 LIN. FT.	
PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIERS				8.14 LIN. FT.	
CSL TUBES				116.72 LIN. FT.	

END ELEVATION

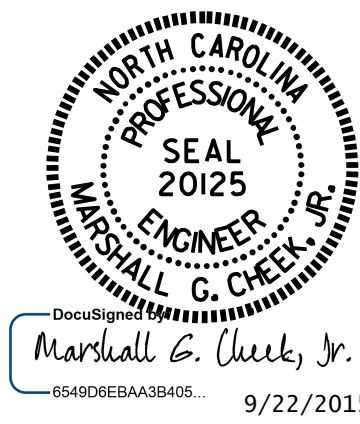


PLAN OF DRILLED PIERS & COLUMNS
(REINFORCING STEEL IS TYPICAL FOR EACH COLUMN & DRILLED PIER)

PROJECT NO. B-3868
MACON COUNTY
 STATION: 18+33.50 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT NO. 1					
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					S-31
					TOTAL SHEETS 40



DRAWN BY: R.W. BRANNAN DATE: 7/10/15
 CHECKED BY: B. N. GRADY DATE: 7/15/15
 DESIGN ENGINEER OF RECORD: S.T. CHAMPION DATE: 8/15