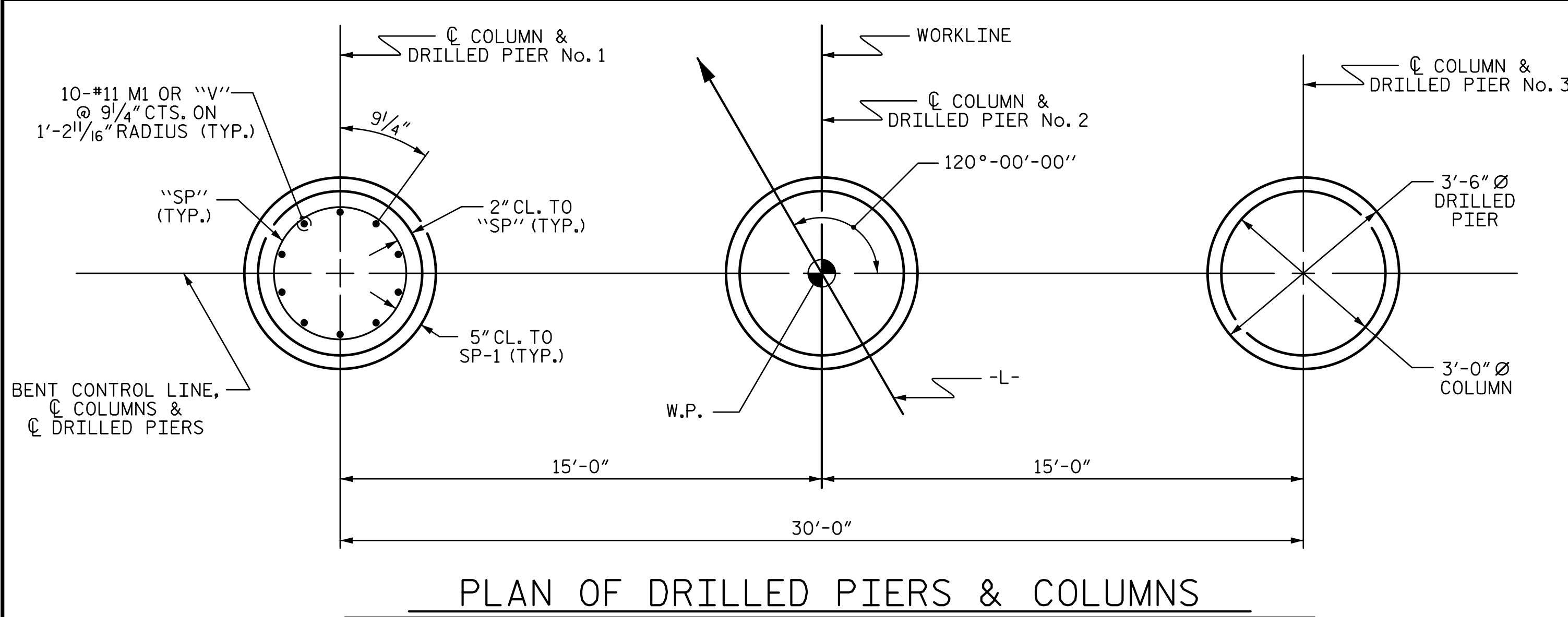
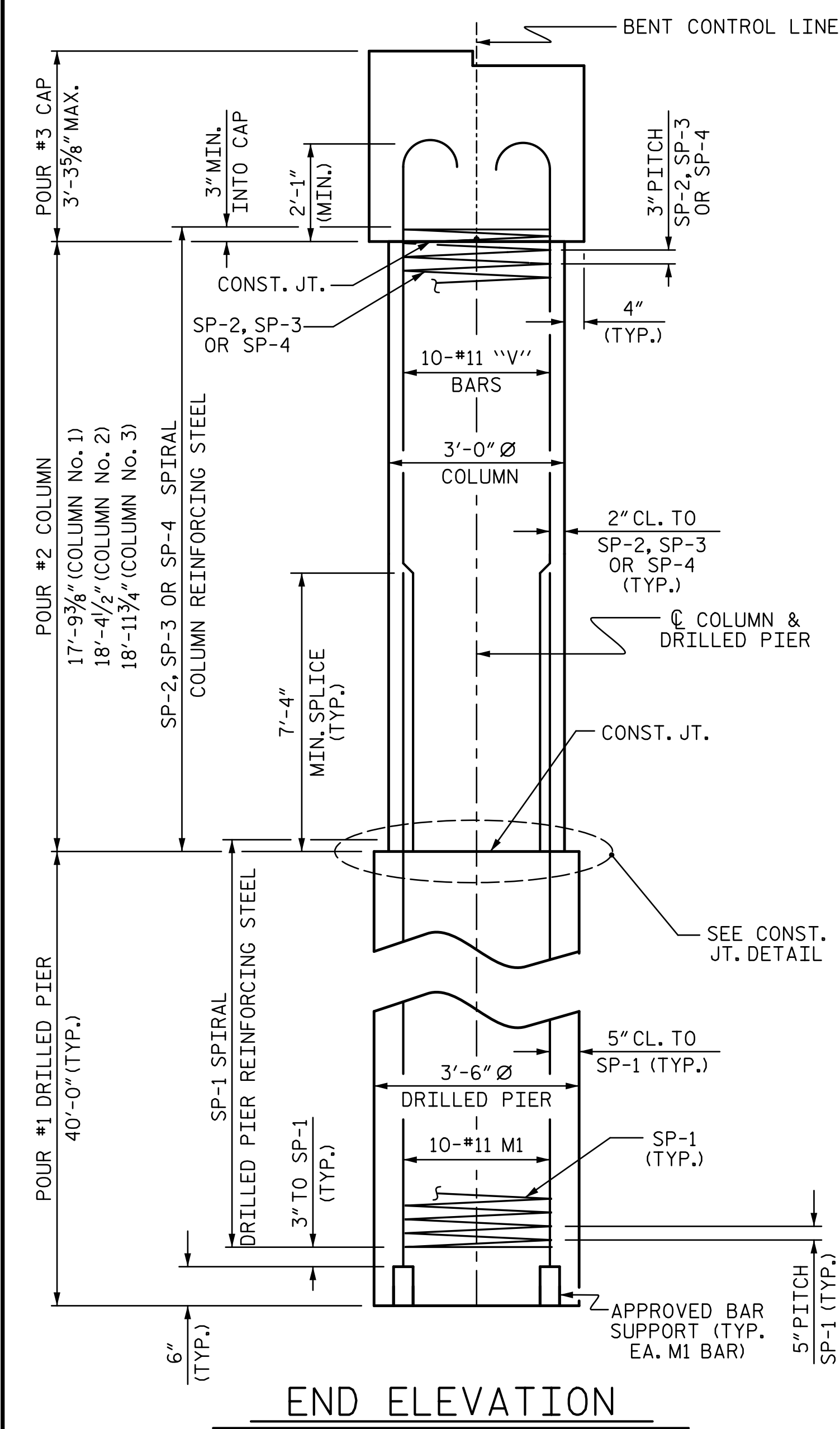


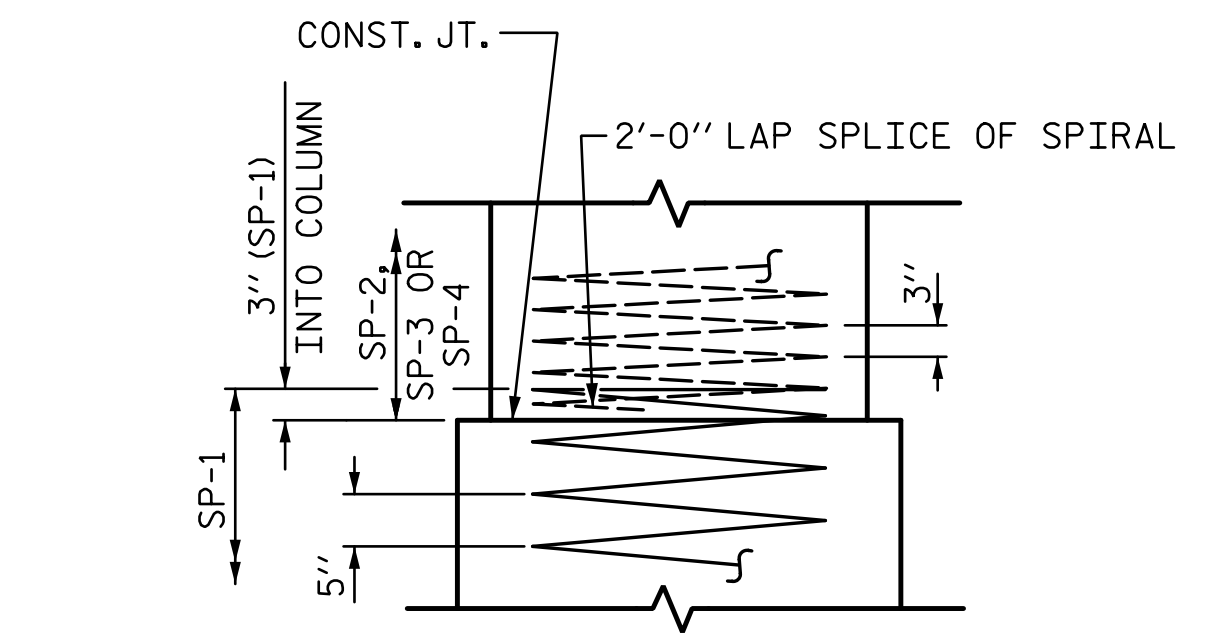
5/4/2020 3:12:25 PM R:\Structures\ustation\Finals\401_037_BR-0125_SML_B2_019_960663.dgn



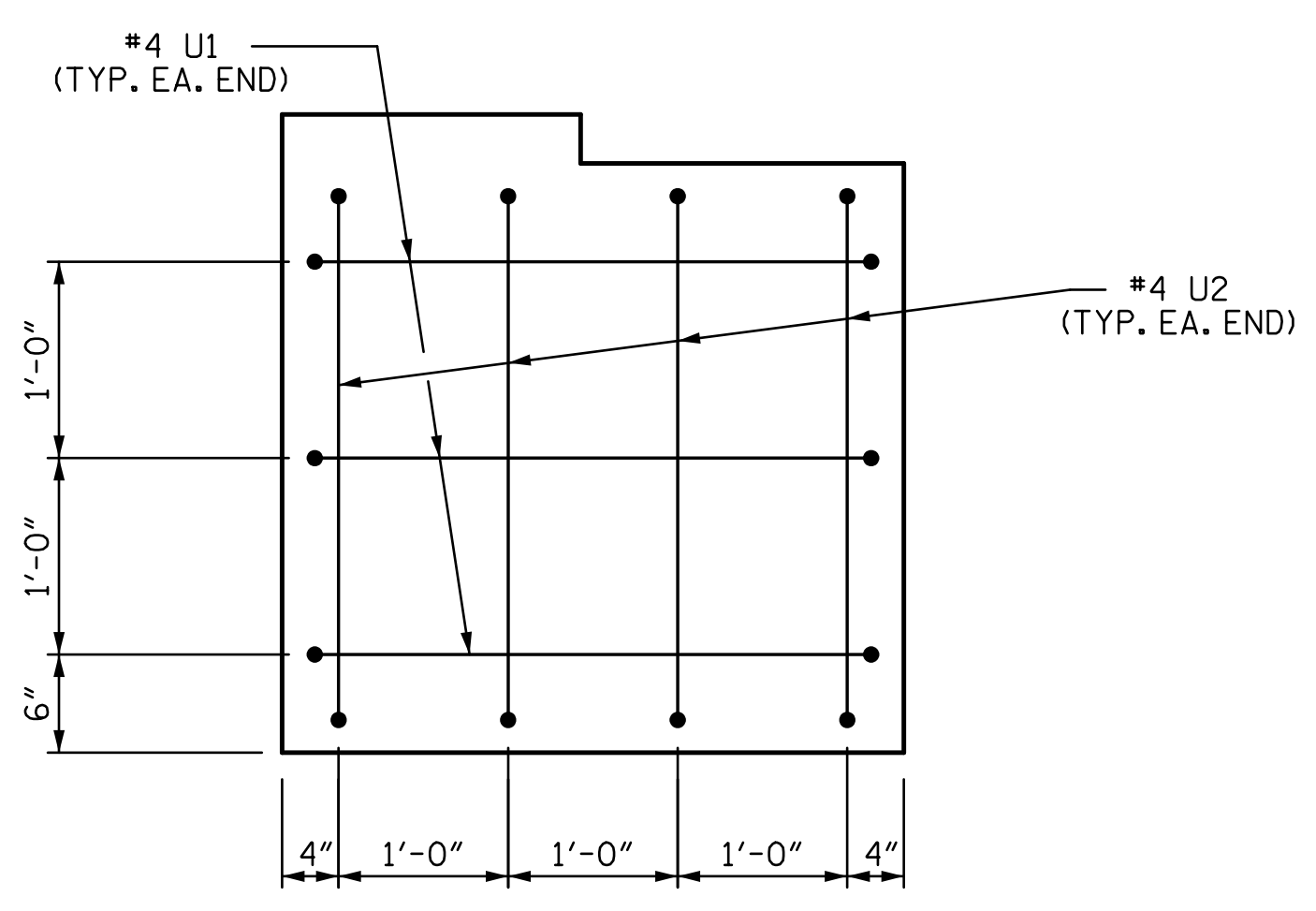
PLAN OF DRILLED PIERS & COLUMNS



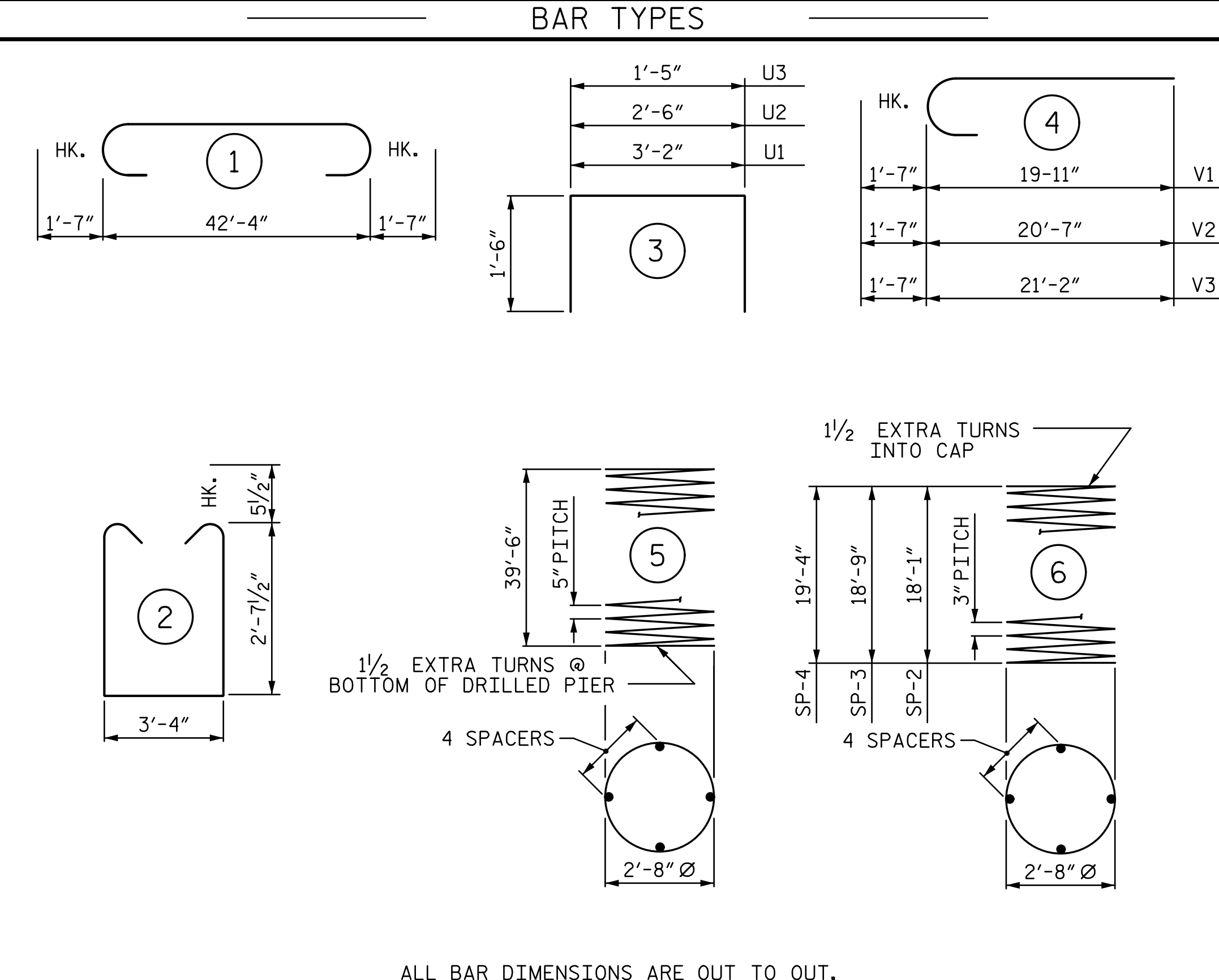
END ELEVATION



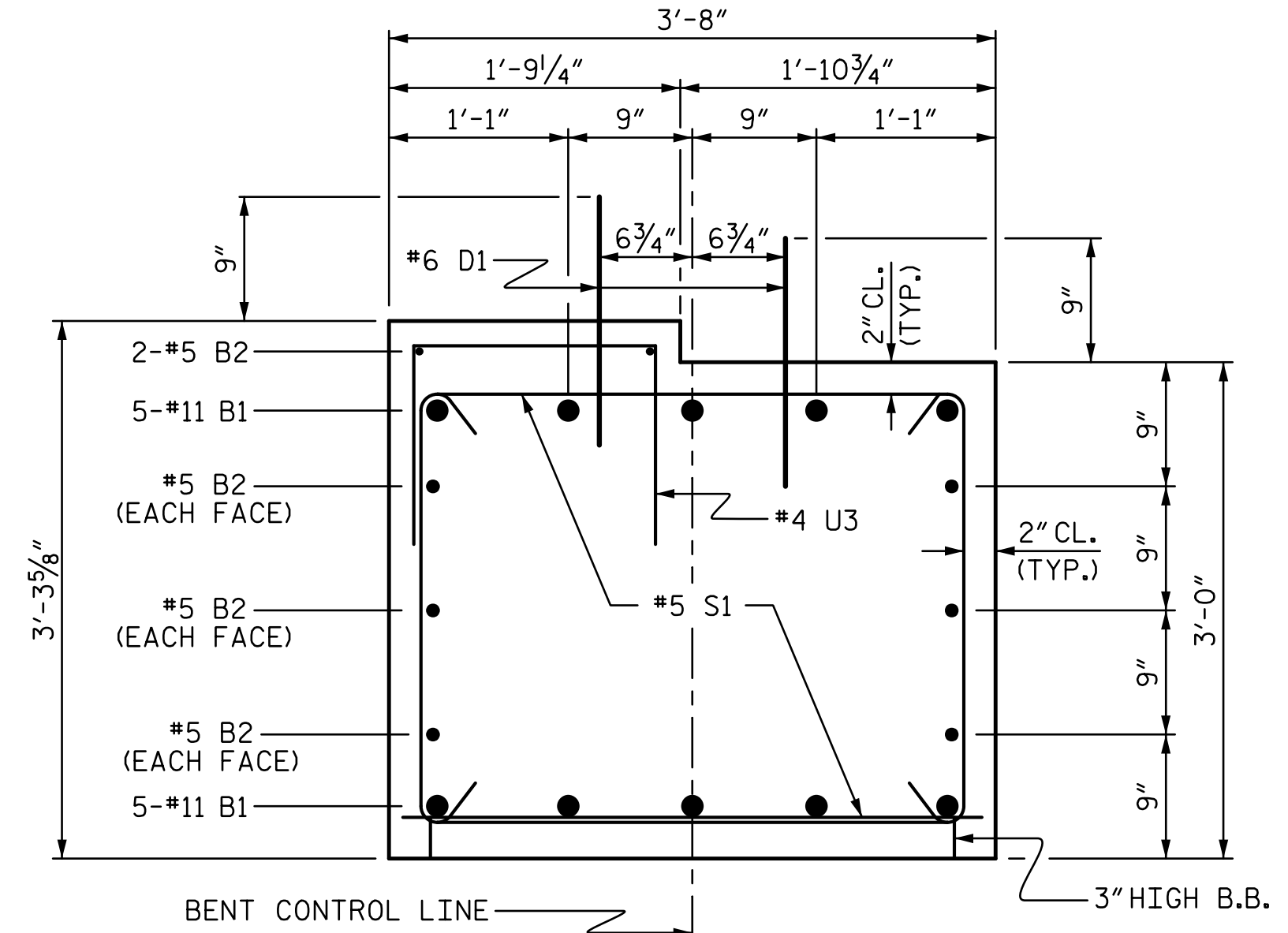
CONSTRUCTION JOINT DETAIL



END OF CAP VIEW
(TYPICAL BOTH ENDS)



ALL BAR DIMENSIONS ARE OUT TO OUT.



SECTION THRU CAP

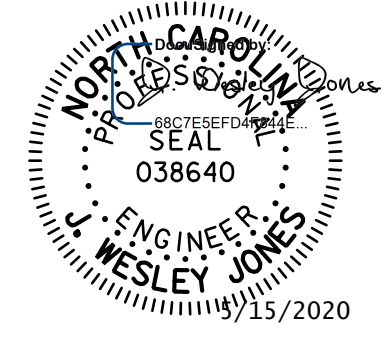
BILL OF MATERIAL FOR ONE BENT					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#11	1	45'-6"	2417
B2	8	#5	STR	42'-6"	355
D1	44	#6	STR	1'-6"	99
M1	30	#11	STR	49'-10"	7,943
S1	74	#5	2	9'-6"	733
U1	6	#4	3	6'-2"	25
U2	8	#4	3	5'-6"	29
U3	42	#4	3	4'-5"	124
V1	10	#11	4	21'-6"	1,142
V2	10	#11	4	22'-2"	1,178
V3	10	#11	4	22'-9"	1,209
REINFORCING STEEL (FOR ONE BENT)					15,254 LBS.
SP-1	3	*	5	792'-1"	2,478
SP-2	1	**	6	609'-2"	407
SP-3	1	**	6	631'-2"	422
SP-4	1	**	6	650'-5"	434
SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT)					3,741 LBS.
* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR					
** THE SP-2, SP-3 & SP-4 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR					
CLASS A CONCRETE BREAKDOWN (FOR ONE BENT)					
POUR #2 (COLUMNS)					14.4 C.Y.
POUR #3 (CAP)					18.3 C.Y.
TOTAL CLASS A CONCRETE					32.7 C.Y.
DRILLED PIERS: (FOR ONE BENT)					
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)					42.8 C.Y.
3'-6" Ø DRILLED PIER NOT IN SOIL					40.0 LIN. FT.
3'-6" Ø DRILLED PIER IN SOIL					80.0 LIN. FT.
PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIER					29.0 LIN. FT.
CSL TUBES					498.0 LIN. FT.

PROJECT NO. BR-0125
WILKES COUNTY
 STATION: 15+36.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT No. 1



STV ENGINEERS, INC.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : WAW	DATE : 10-19
CHECKED BY : JWJ	DATE : 02-20
DESIGN ENGINEER OF RECORD : JWJ	DATE : 04-20
DRAWN BY : DGE 3/10	REV. 11/14
CHECKED BY : MKT 3/10	MAA/TMG

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

TOTAL SHEETS 23