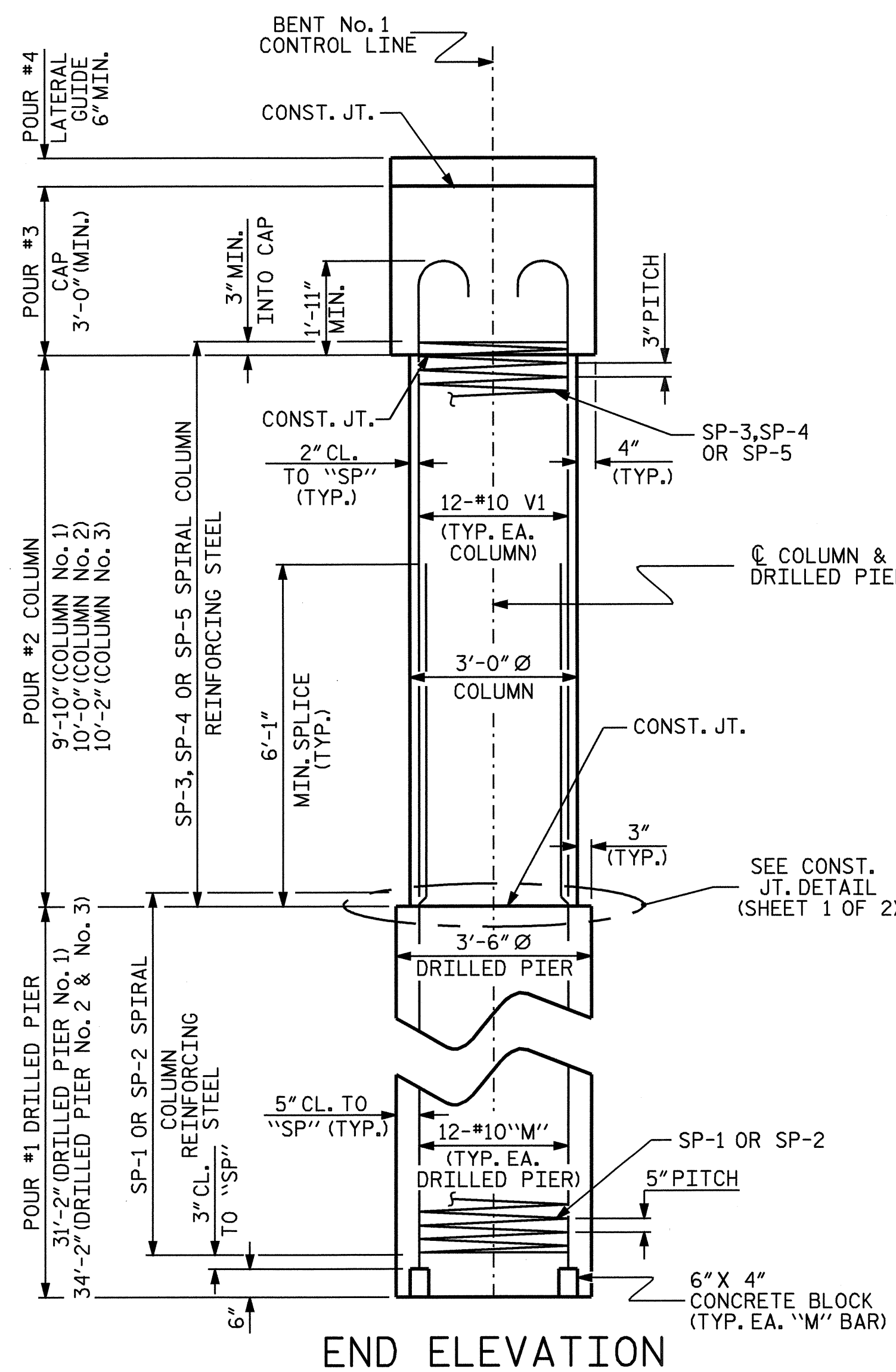
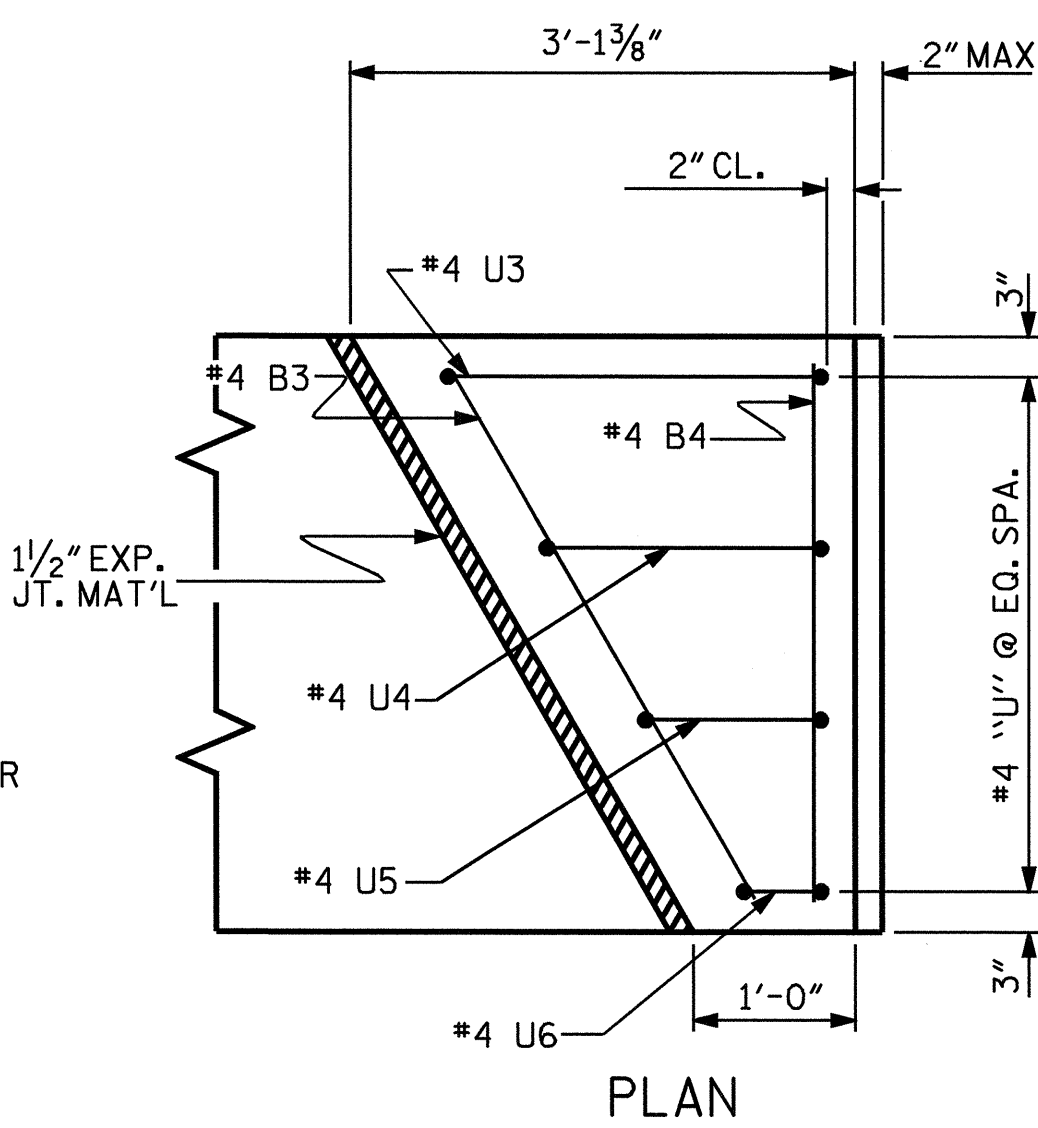


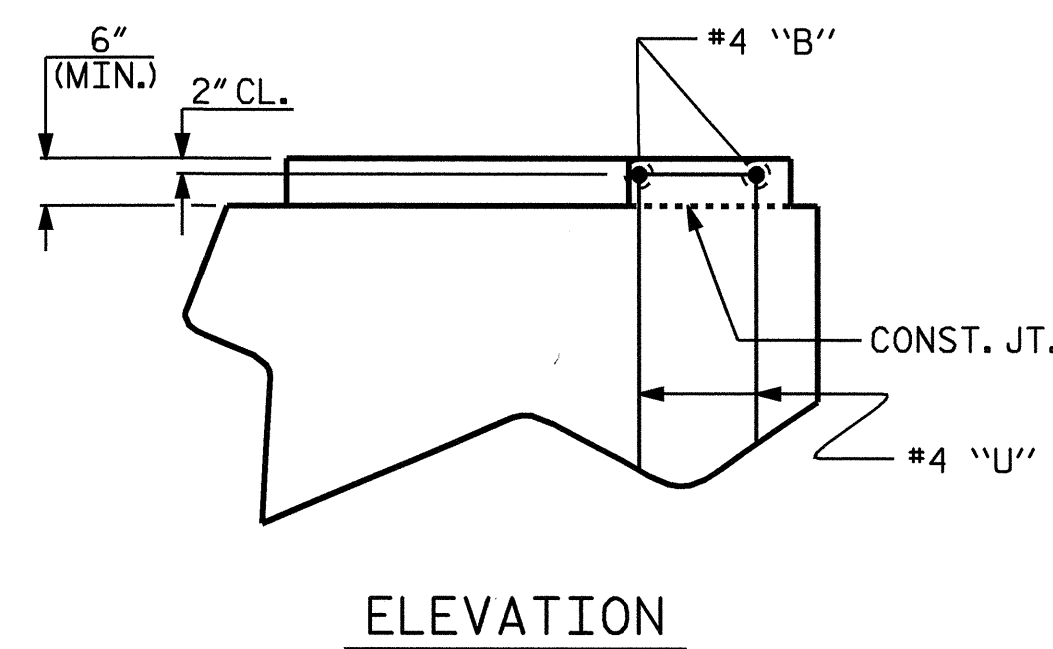
PLAN OF DRILLED PIERS & COLUMNS



END ELEVATION

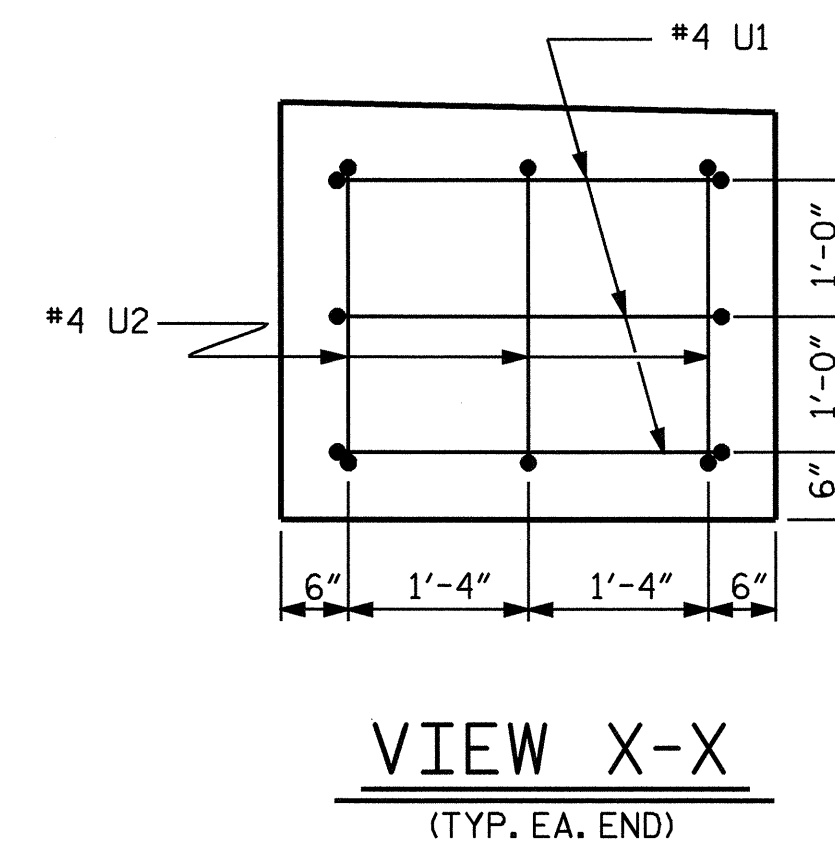


PLAN

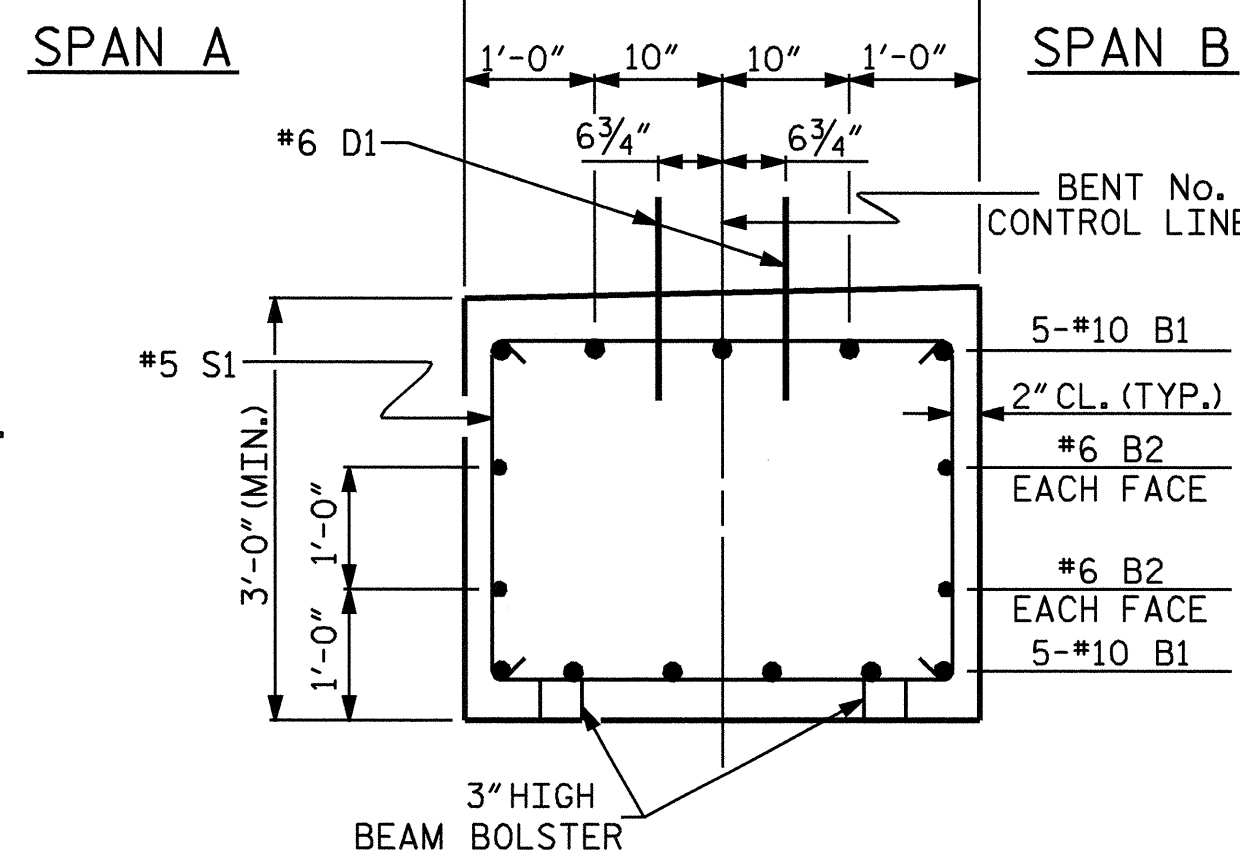


ELEVATION

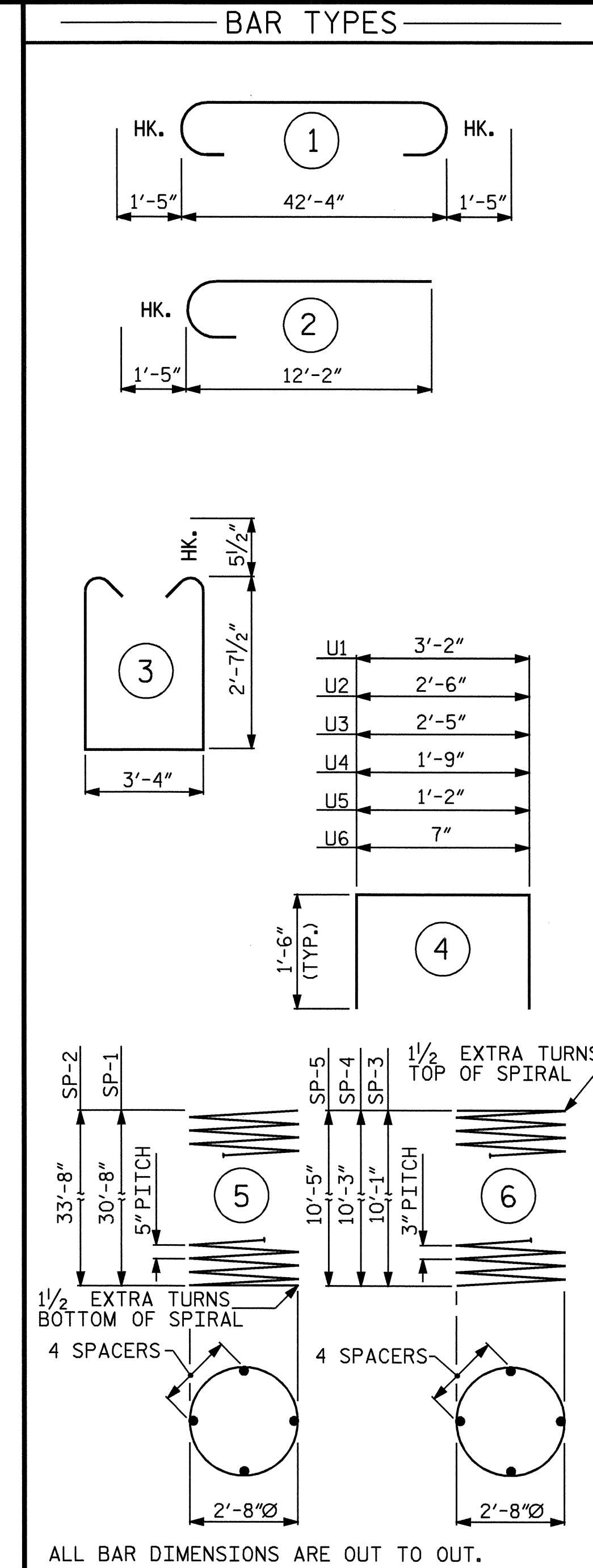
LATERAL GUIDE DETAIL
(RIGHT LATERAL GUIDE SHOWN, LEFT SIDE SIMILAR)



VIEW X-X
(TYP. EA. END)



SECTION A-A



BAR TYPES

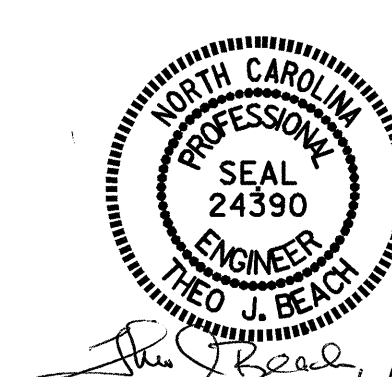
BILL OF MATERIAL					
BENT No. 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	10		45'-2"	1944
B2	4	6	STR	42'-4"	255
B3	2	4	STR	3'-10"	5
B4	2	4	STR	3'-4"	4
D1	44	6	STR	1'-6"	99
S1	38	5	3	9'-6"	377
M1	12	10	STR	39'-9"	2053
M2	24	10	STR	42'-9"	4415
U1	6	4	4	6'-2"	25
U2	6	4	4	5'-6"	22
U3	2	4	4	5'-5"	7
U4	2	4	4	4'-9"	6
U5	2	4	4	4'-2"	6
U6	2	4	4	3'-7"	5
V1	36	10	2	13'-7"	2104
REINFORCING STEEL					LBS. 11327
SP-1	1	*	5	625'-1"	652
SP-2	2	*	5	682'-8"	1424
SP-3	1	**	6	346'-7"	232
SP-4	1	**	6	354'-10"	237
SP-5	1	**	6	363'-1"	243
SPIRAL COLUMN REINFORCING STEEL					LBS. 2788
* THE SP-3, SP-4, SP-5 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
* THE SP-1, SP-2 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 C.Y.
POUR #3 (CAP)					17.7 C.Y.
POUR #4 (LATERAL GUIDES)					0.3 C.Y.
TOTAL					25.9 C.Y.
DRILLED PIERS:					
DRILLED PIER CONCRETE					
POUR #1 (DRILLED PIERS)					35.5 C.Y.
3'-6" Ø DRILLED PIER NOT IN SOIL					22.0 LIN. FT.
3'-6" Ø DRILLED PIER IN SOIL					77.50 LIN. FT.
PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIERS					36.5 LIN. FT.
CSL TUBES					428.00 LIN. FT.

PROJECT NO. B-3899
ROCKINGHAM COUNTY
 STATION: 23+91.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT No. 1



DRAWN BY: N. PIERCE DATE: 3/05
 CHECKED BY: S.B. WILLIAMS DATE: 4/05

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

S-15
 TOTAL SHEETS
 24