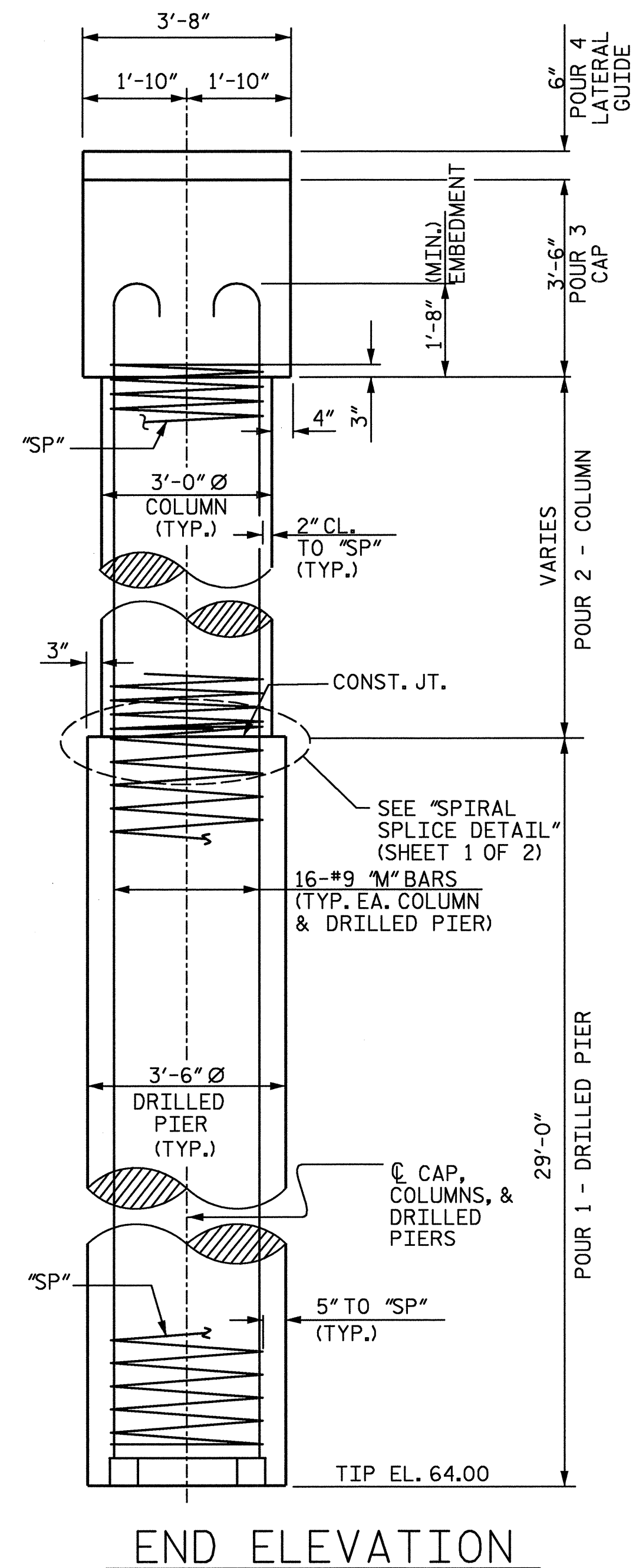
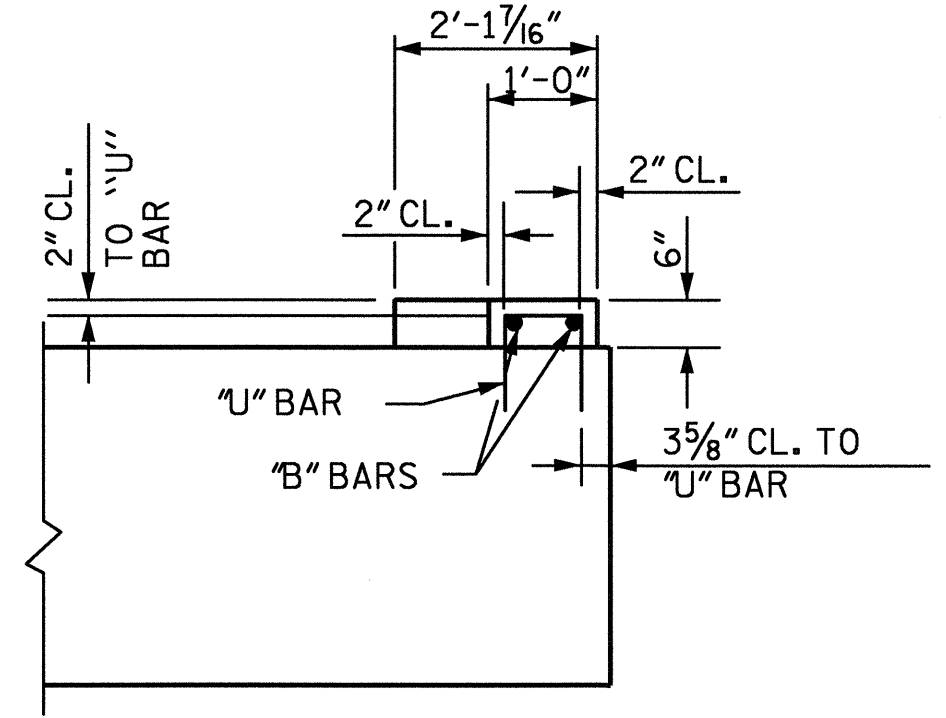


PLAN OF DRILLED PIERS

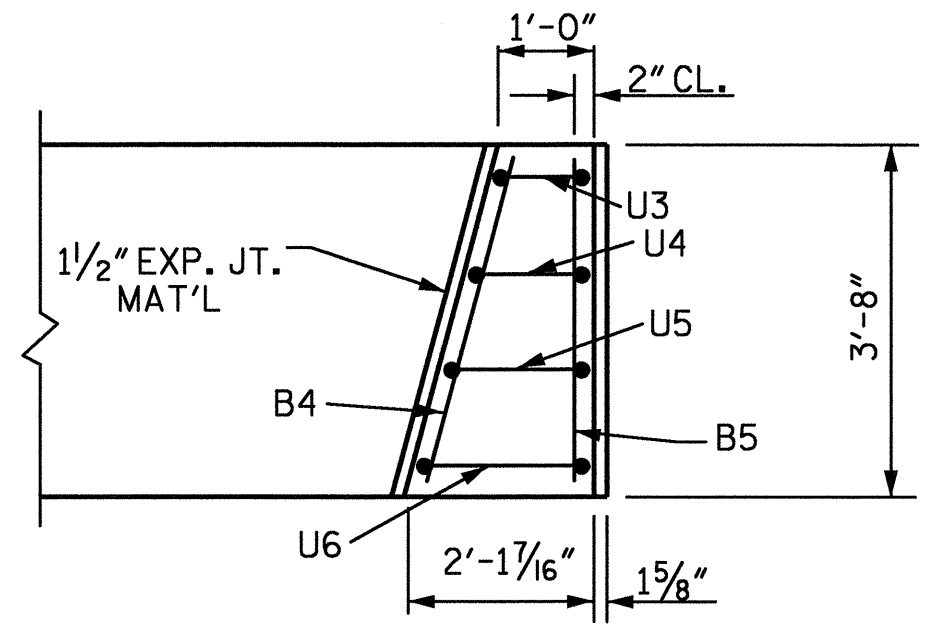
REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL DRILLED PIERS



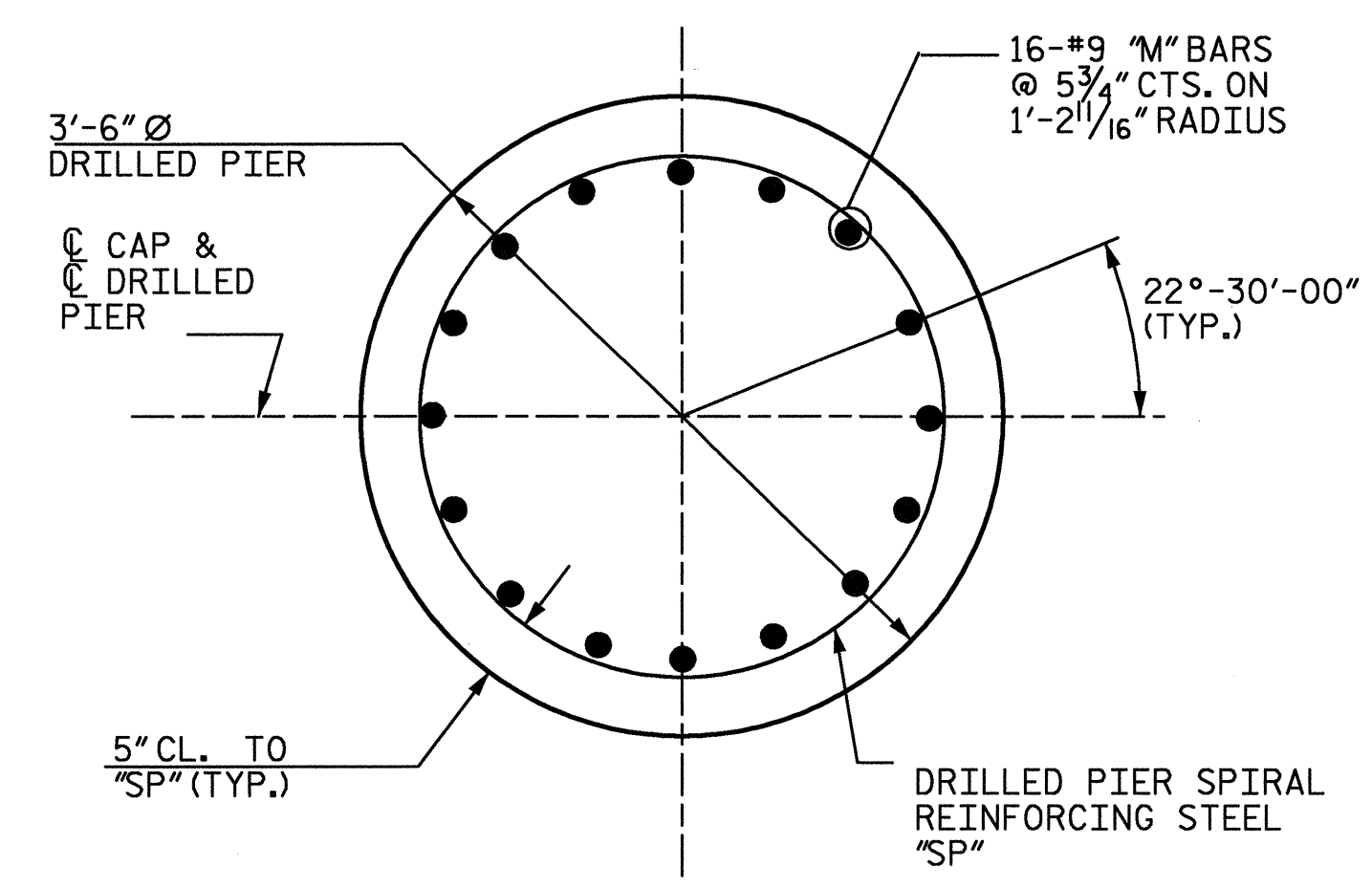
END ELEVATION



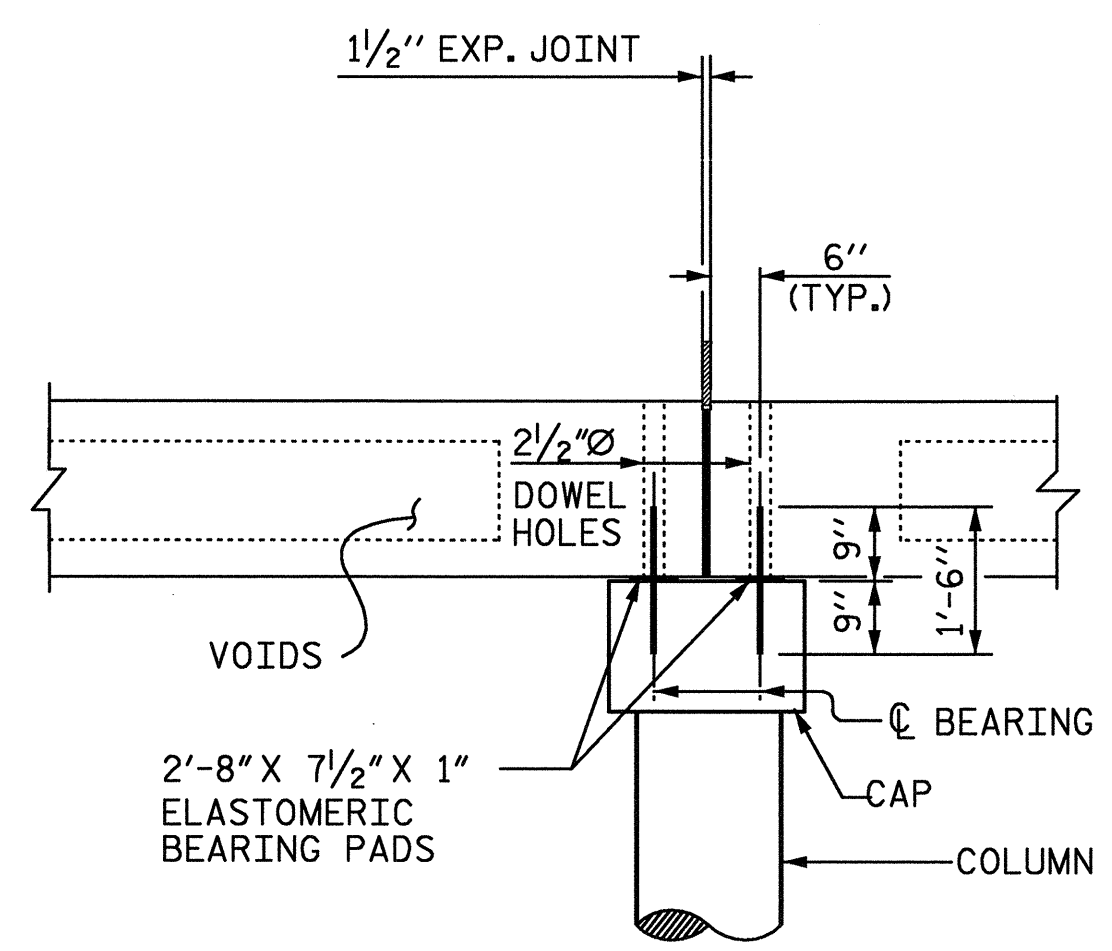
ELEVATION



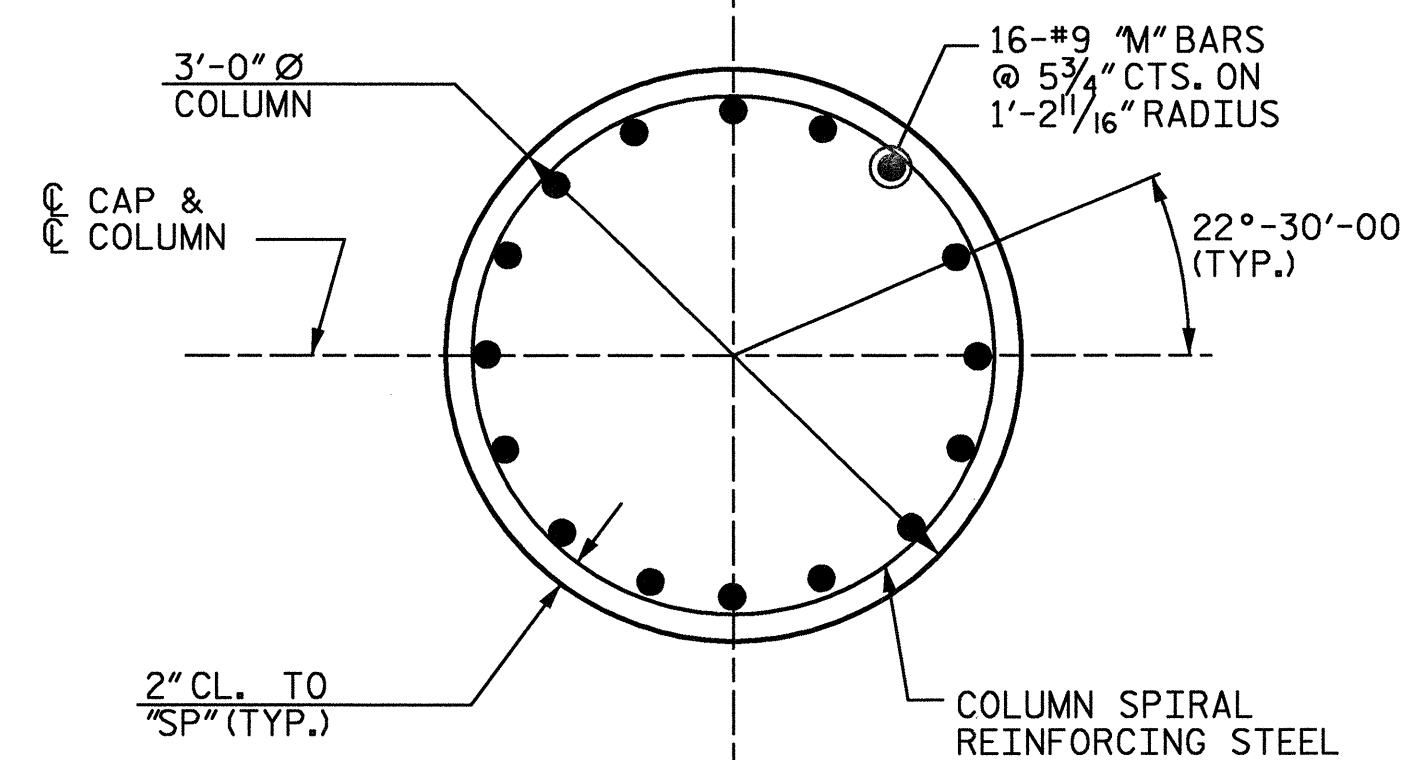
LATERAL GUIDE DETAIL
(TYP. EA. LATERAL GUIDE)



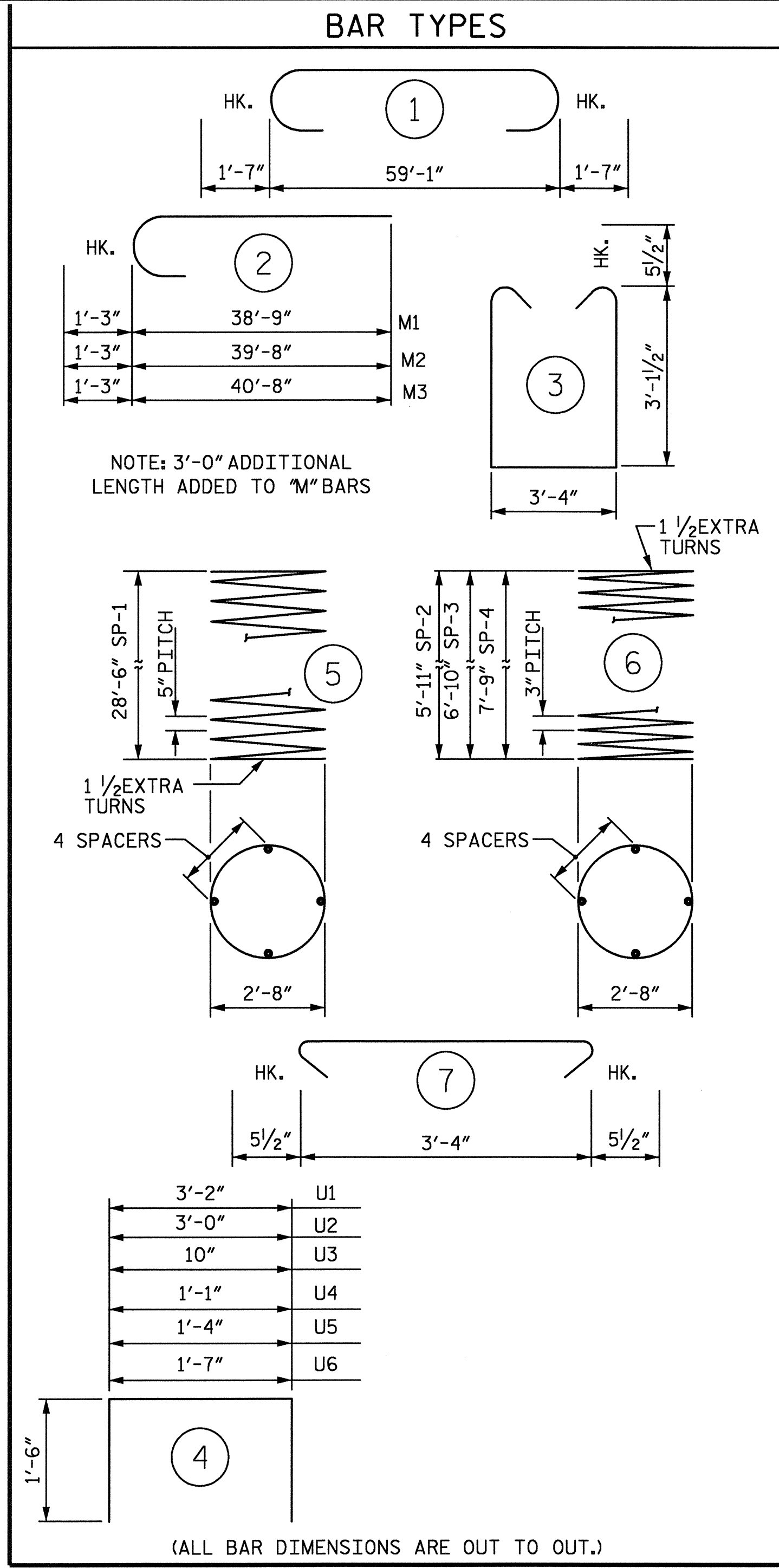
DETAIL "C"



SECTION AT BENT



DETAIL "D"



NOTE: 3'-0" ADDITIONAL LENGTH ADDED TO "M" BARS

1 1/2 EXTRA TURNS

4 SPACERS

2'-8" X 7 1/2" X 1" ELASTOMERIC BEARING PADS

1/2" EXP. JOINT

6" (TYP.)

2 1/2" Ø DOWEL HOLES

VOIDS

2'-8" X 7 1/2" X 1" ELASTOMERIC BEARING PADS

1 1/2 EXTRA TURNS

4 SPACERS

2'-8"

2'-8"

5 1/2"

3'-4"

5 1/2"

3'-2"

3'-0"

10"

1'-1"

1'-4"

1'-7"

U1

U2

U3

U4

U5

U6

(ALL BAR DIMENSIONS ARE OUT TO OUT.)

BAR TYPES

BILL OF MATERIAL

BENT 1

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	#6		62'-3"	1984
B2	#5	STR	59'-1"	246
B3	#6	STR	59'-1"	1883
B4	#4	STR	3'-5"	5
B5	#4	STR	3'-4"	4
D1	#6	STR	1'-6"	162
M1	#9	2	40'-0"	2176
M2	#9	2	40'-11"	2226
M3	#9	2	41'-11"	2280
S1	#5	3	10'-6"	767
S2	#5	7	4'-3"	310
U1	#4	4	6'-2"	25
U2	#4	4	6'-0"	24
U3	#4	4	3'-10"	5
U4	#4	4	4'-1"	5
U5	#4	4	4'-4"	6
U6	#4	4	4'-7"	6

REINFORCING STEEL					12114 LBS.
SP-1	3	*	5	574'-7"	1798
SP-2	1	**	6	214'-1"	143
SP-3	1	**	6	247'-1"	165
SP-4	1	**	6	280'-0"	187

SPIRAL COLUMN REINFORCING STEEL					2293 LBS.
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CLASS A CONCRETE BREAKDOWN				
POUR 2 (COLUMN)	5.1	C.Y.		
POUR 3 (CAP)	28.2	C.Y.		
POUR 4 (LATERAL GUIDES)	0.2	C.Y.		
TOTAL CLASS A CONCRETE	33.5	C.Y.		

3'-6" Ø DRILLED PIERS				
DRILLED PIER CONCRETE				
POUR 1 (DRILLED PIERS)	31.0	C.Y.		
3'-6" Ø DRILLED PIERS IN SOIL :	70.0	LIN. FT.		
3'-6" Ø DRILLED PIERS NOT IN SOIL :	17.0	LIN. FT.		

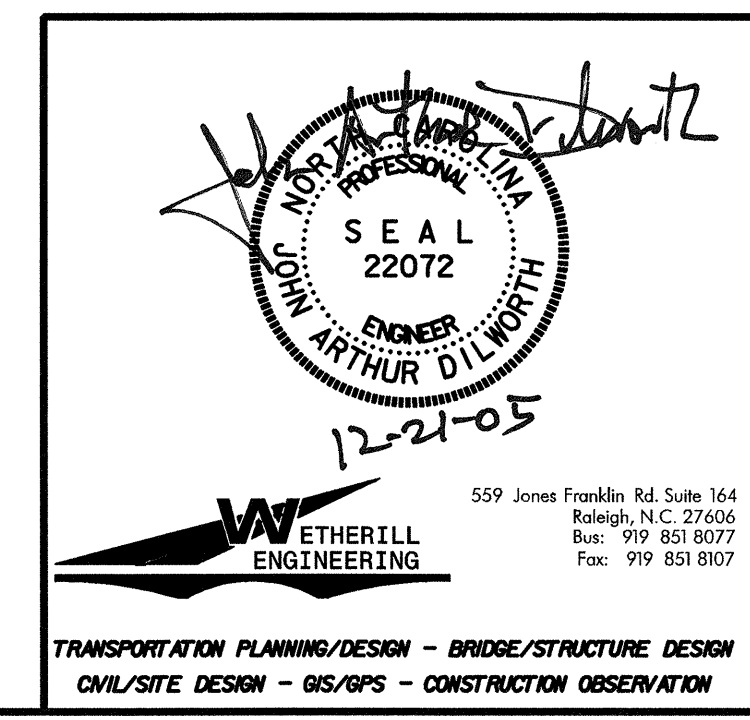
WBS. NO. 37017

WAKE COUNTY

STATION: 14+04.00 -L-

REPLACES BRIDGE NO. 133

SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT 1					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			1		
2			2		

SHEET NO. S-18

TOTAL SHEETS 23

P:\4100\MA05001\EX\Structures\DWG\beam1.dgn
 12/21/2005 10:09:00 AM

DRAWN BY: J. PENDERGRAFT DATE: 3-05
 CHECKED BY: J. DILLWORTH DATE: 3-05