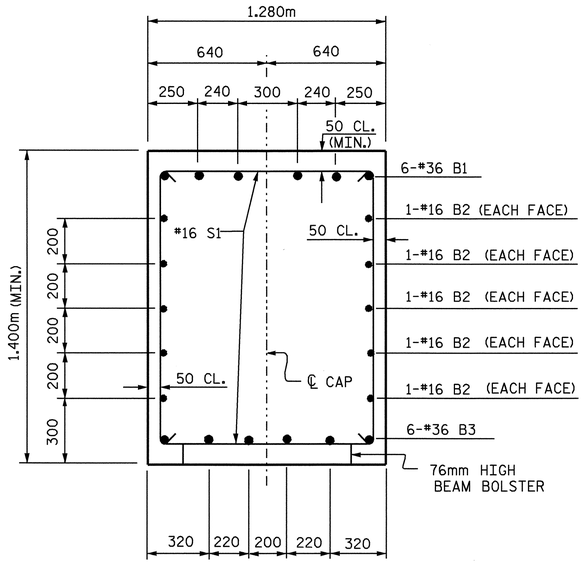
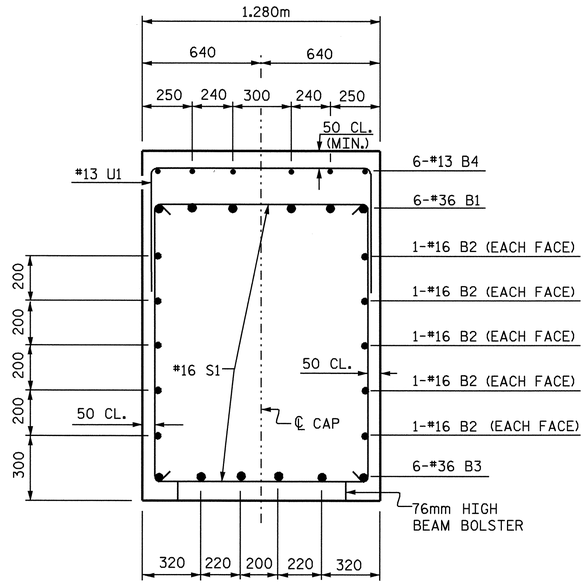
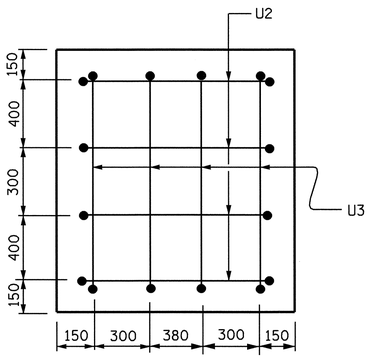


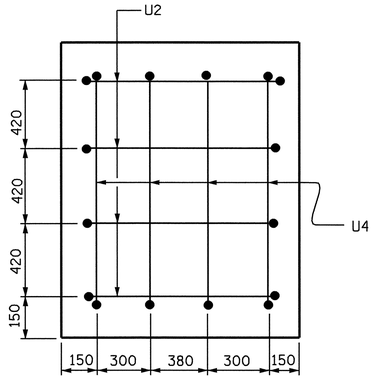
SECTION A-A



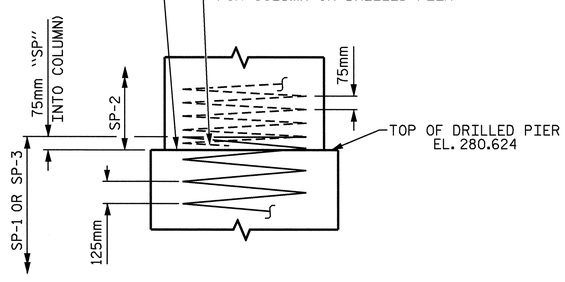
SECTION B-B



LEFT END VIEW

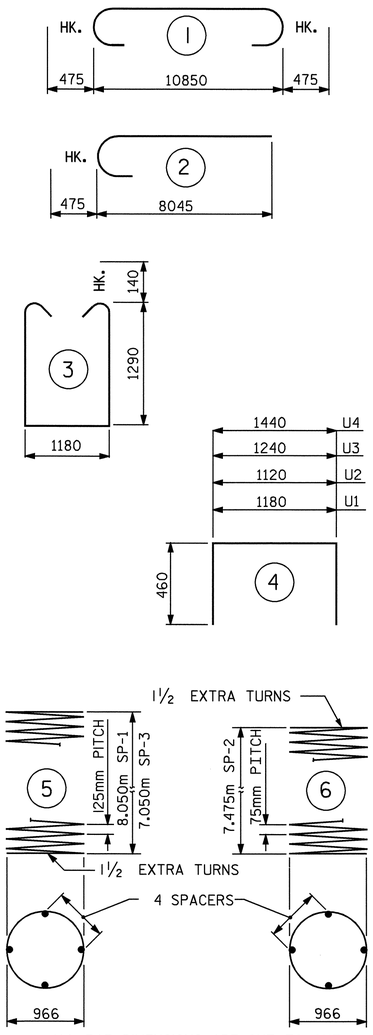


RIGHT END VIEW



CONSTRUCTION JOINT DETAIL

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT #2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	36	1	11800	560
B2	10	16	STR	10900	169
B3	6	36	STR	10900	517
B4	6	13	STR	4340	26
M1	12	36	STR	11320	1074
M2	12	36	STR	10320	979
S1	41	16	3	4040	257
U1	32	13	4	2100	67
U2	8	13	4	2040	16
U3	4	13	4	2160	9
U4	4	13	4	2360	9
V1	24	36	2	8520	1617
REINFORCING STEEL				KG	5300

SP-1	1	*	5	197780	307
SP-2	2	**	6	302960	602
SP-3	1	*	5	173800	270
SPIRAL REINF. STEEL				KG	1179

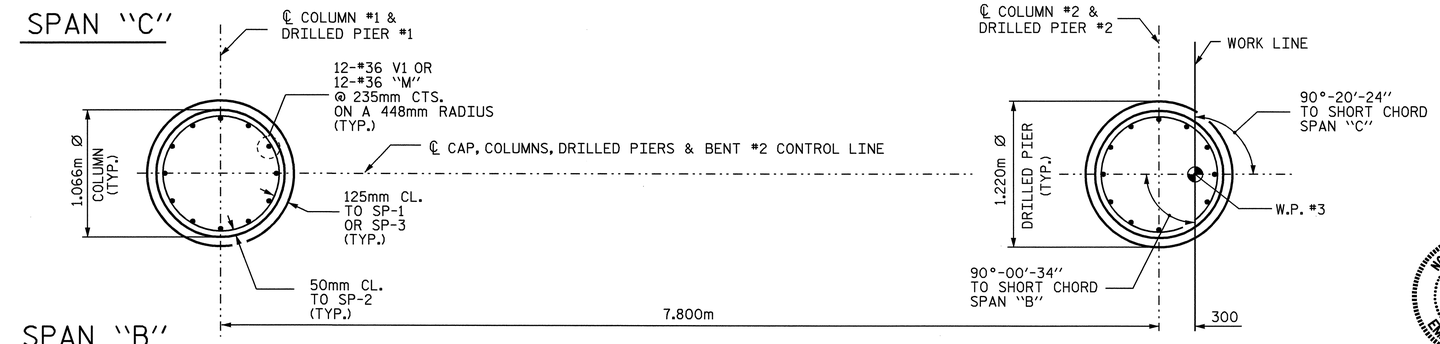
CLASS A CONCRETE		
POUR #2 COLUMNS	m3	13.2
POUR #3 CAP	m3	20.8
TOTAL CLASS A CONCRETE	m3	34.0

DRILLED PIER CONCRETE		
POUR #1 DRILLED PIERS	m3	18.0

1220mm Ø DRILLED PIERS IN SOIL	7.9m
1220mm Ø DRILLED PIERS NOT IN SOIL	7.5m
PERMANEMT STEEL CASING FOR 1220mm Ø DRILLED PIERS	8.2m
CSL TUBES	68.4m

** THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.

* THE SP-1 AND SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.



PLAN OF DRILLED PIERS AND COLUMNS

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER EMILY E. MURRAY
9/10/09

PROJECT NO. R-2206C
LINCOLN-CATAWBA COUNTY
STATION: 256+91.000 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
BENT #2
LEFT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-327
1			3			TOTAL SHEETS
2			4			374

DRAWN BY : C.MILLER DATE : 04-04
CHECKED BY : T.AVERETTE DATE : 06-04

STR#11