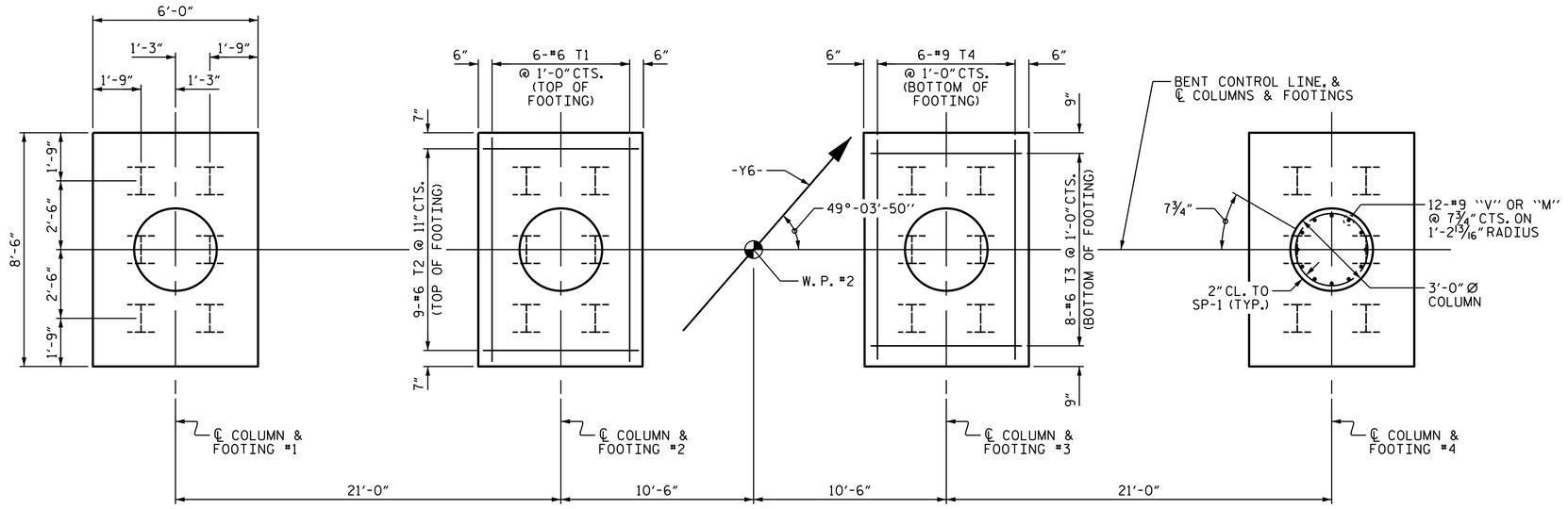
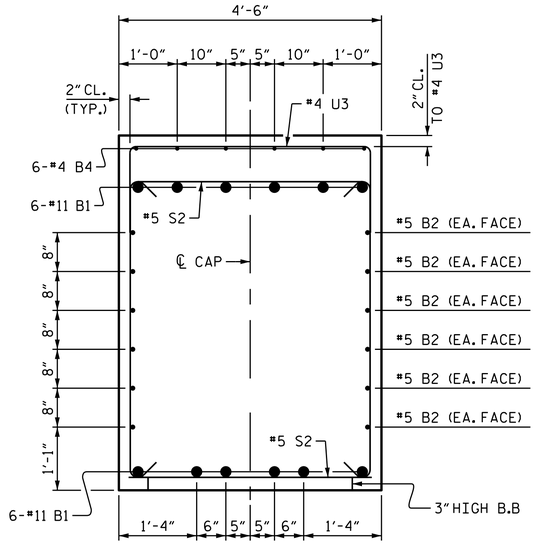
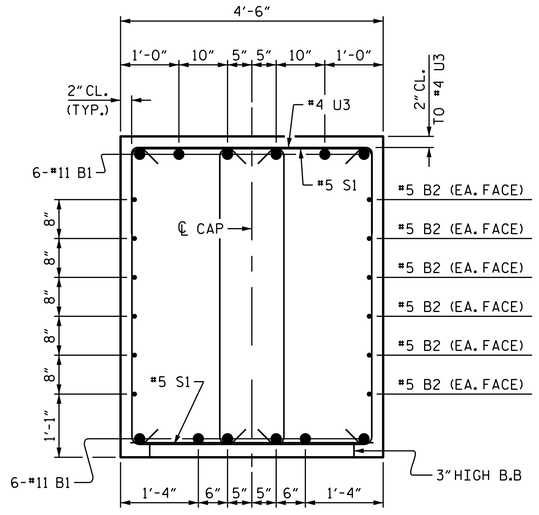


PLAN OF FOOTINGS

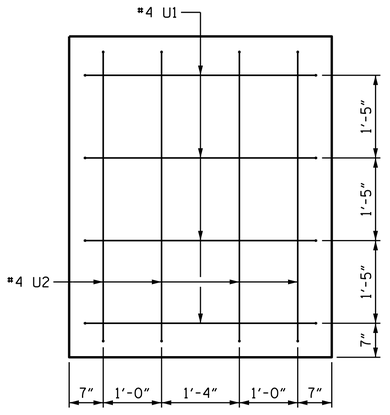
(REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR EACH FOOTING AND COLUMN.)



SECTION A-A



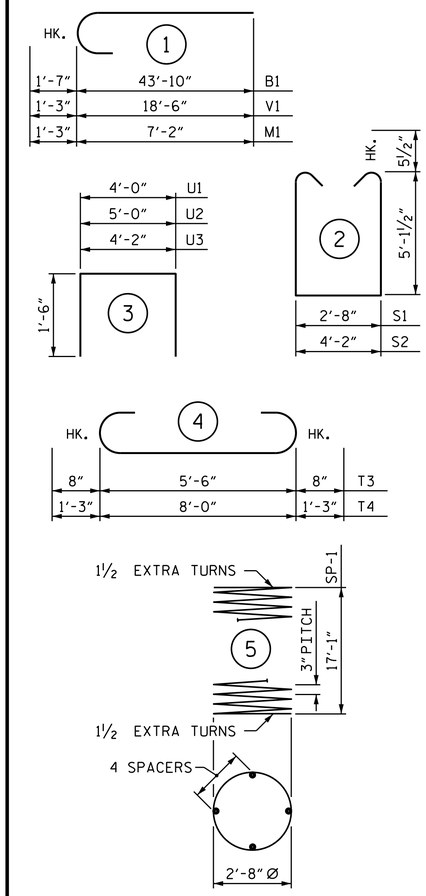
SECTION B-B



END VIEW

(TYP. EA. END)

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	24	#11	1	45'-5"	5791
B2	24	#5	STR	38'-7"	966
B3	18	#4	STR	10'-0"	120
B4	6	#4	STR	24'-1"	97
M1	48	#9	1	8'-5"	1374
S1	76	#5	2	13'-10"	1097
S2	81	#5	2	15'-4"	1295
T1	24	#6	STR	8'-0"	288
T2	36	#6	STR	5'-6"	297
T3	32	#6	4	6'-10"	328
T4	24	#9	4	10'-6"	857
U1	8	#4	3	7'-0"	37
U2	8	#4	3	8'-0"	43
U3	84	#4	3	7'-2"	402
V1	48	#9	1	19'-9"	3223

REINFORCING STEEL					16215
SP-1	4	**	5	594'-1"	1588

TOTAL SPIRAL COLUMN REINFORCING STEEL 1588

CLASS A CONCRETE BREAKDOWN:

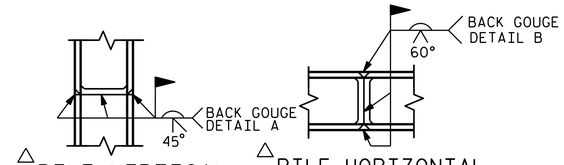
POUR 1 (FOOTINGS)	26.4 C.Y.
POUR 2 (COLUMNS)	17.6 C.Y.
POUR 3 (CAP)	72.8 C.Y.
TOTAL CLASS A CONCRETE	116.8 C.Y.

**THE "SP" SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

FOUNDATION EXCAVATION LUMP SUM

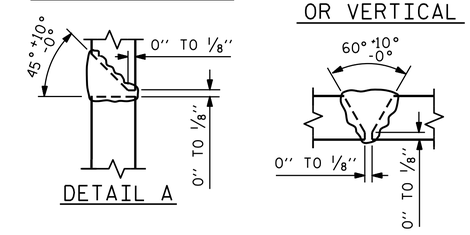
HP 12 X 53 STEEL PILES

NUMBER = 24 LIN. FT. = 720



△ PILE VERTICAL

△ PILE HORIZONTAL OR VERTICAL



△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TING HSIUNG FANG

DocuSigned by: Ting Fang E720884009774358... 7/1/2016

PROJECT NO. U-2524D

GUILFORD COUNTY

STATION: 25+18.62 -Y6-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 1

DRAWN BY : P. K. NEWTON DATE : 4/12/16
CHECKED BY : T. H. FANG DATE : 5/3/16
DESIGN ENGINEER OF RECORD: P. K. NEWTON DATE : 5/12/16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-26
1			3			TOTAL SHEETS
2			4			33

01-JUL-2016 13:11
K:\TIPProjects-U\U2524D\Structures\Plans\bridge\str1\Finalplans\u2524d_sd_bt.dgn
ttfang