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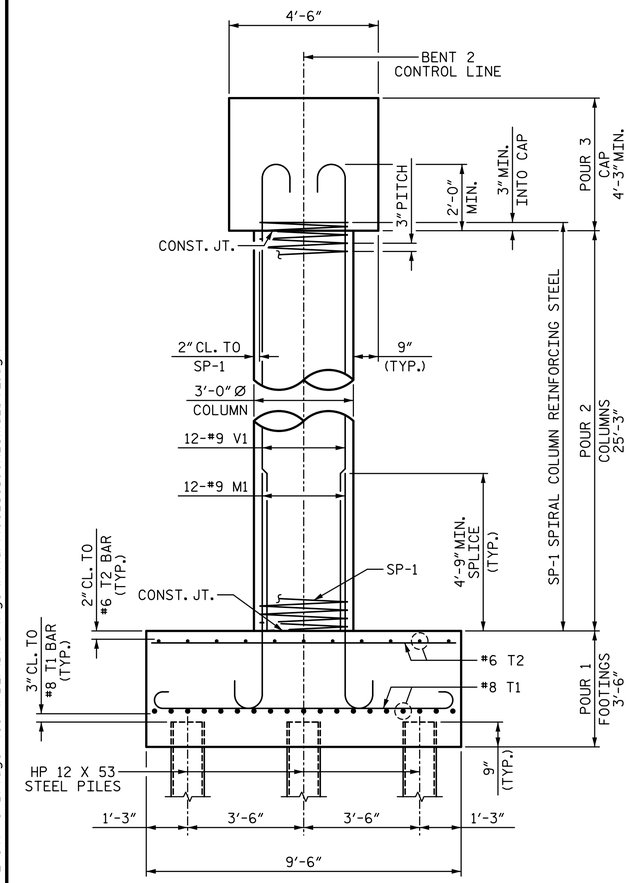
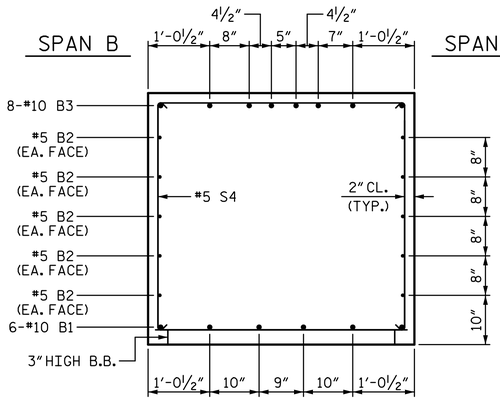
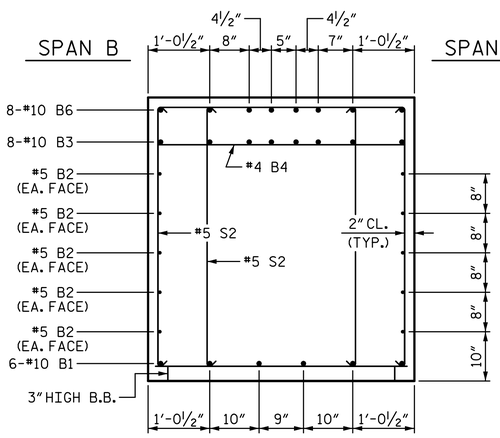


END ELEVATION

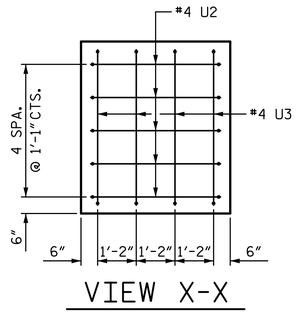
DETAILS, DIMENSIONS & REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN AND FOOTING



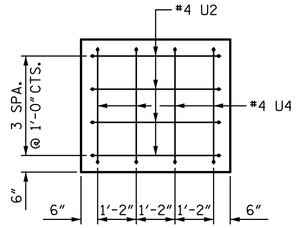
SECTION A-A



SECTION B-B

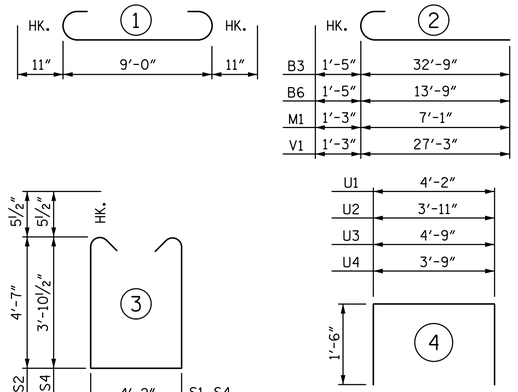


VIEW X-X



VIEW Y-Y

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT 2

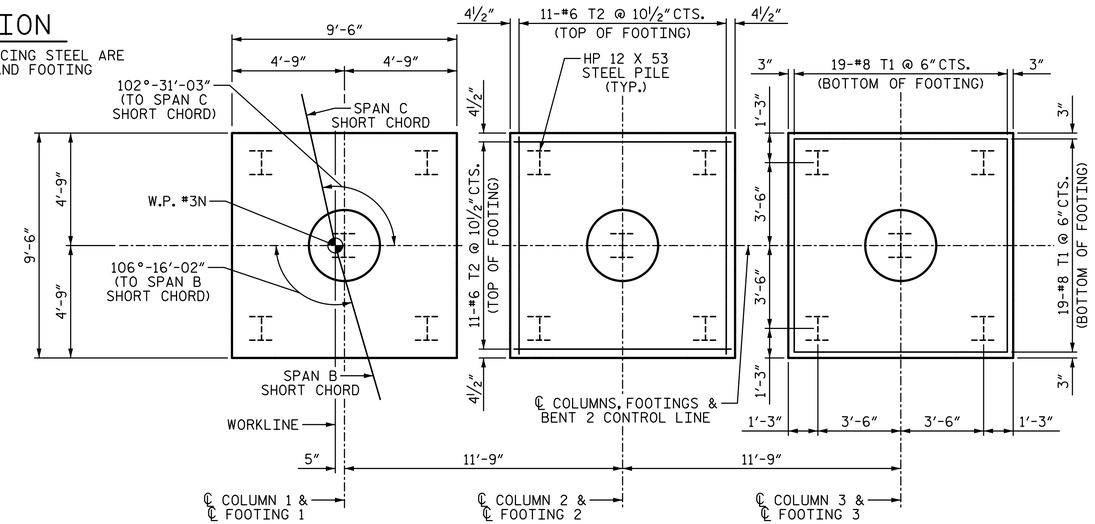
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	10	STR	32'-10"	848
B2	10	5	STR	32'-10"	342
B3	8	10	2	34'-2"	1176
B4	4	4	STR	4'-2"	11
B5	8	4	STR	9'-3"	49
B6	8	10	2	15'-2"	522
B7	8	4	STR	4'-5"	24
M1	36	9	2	8'-4"	1020
S1	9	5	3	14'-3"	134
S2	24	5	3	13'-6"	338
S3	36	5	3	12'-1"	454
S4	9	5	3	12'-10"	120
T1	114	8	1	10'-10"	3297
T2	66	6	STR	9'-0"	892
U1	40	4	4	7'-2"	191
U2	9	4	4	6'-11"	42
U3	4	4	4	7'-9"	21
U4	4	4	4	6'-9"	18
V1	36	9	2	28'-6"	3488
SP-1	3	*	5	866'-4"	1736

REINFORCING STEEL	12987	LB
SPIRAL COL. REINF. STEEL	1736	LB

CLASS "A" CONCRETE BREAKDOWN	
POUR 1 (FOOTINGS)	35.1 CY
POUR 2 (COLUMNS)	19.9 CY
POUR 3 (CAP)	26.1 CY
TOTAL	81.1 CY

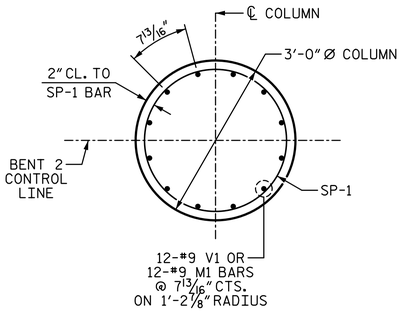
HP 12 X 53 STEEL PILES	
NO. 15	905 LF
PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	15 EA

* THE "SP-1" SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.



PLAN OF FOOTINGS

PILE PLACEMENT, DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH FOOTING



PLAN OF COLUMN

DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN

PROJECT NO. U-3109A

ALAMANCE COUNTY

STATION: 146+61.35 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 2

(NBL)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S03-42
1			3			TOTAL SHEETS
2			4			S03-53

STR. #3

PLANS PREPARED BY:

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(919) 852-0598 (Fax)
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LICENSURE NO. C-2521

NORTH CAROLINA PROFESSIONAL SEAL 18058 ENGINEER JOHN A. BATTS
3/22/2017

DRAWN BY:	T. BANKOVICH	DATE:	9-15
CHECKED BY:	J.A. BATTS	DATE:	9-15
DESIGN ENGINEER OF RECORD:	J.A. BATTS	DATE:	9-15