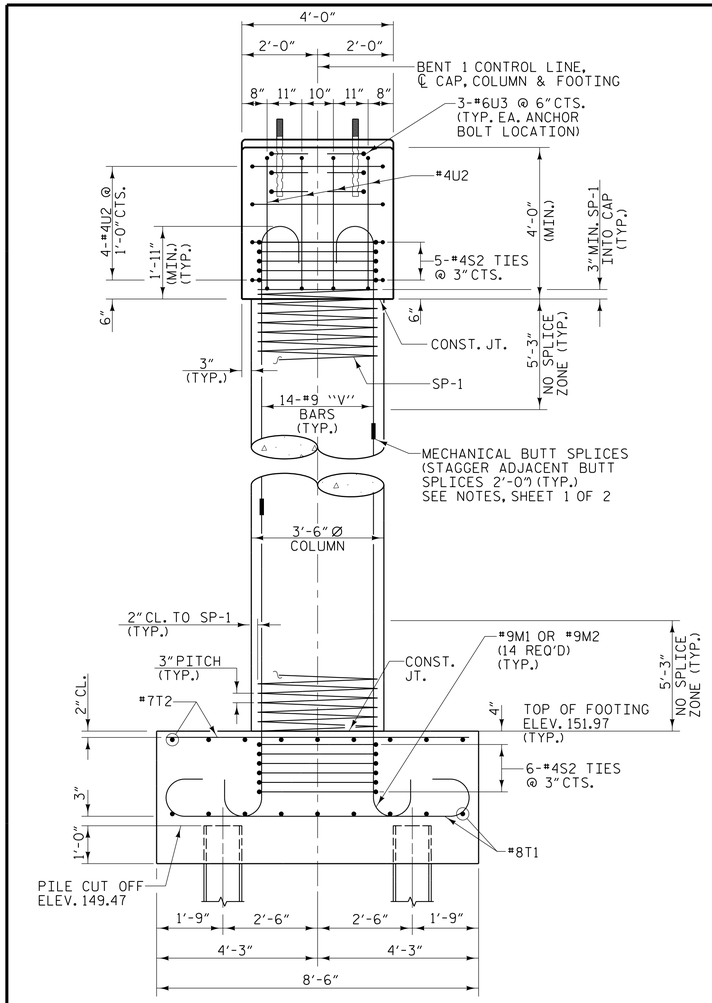
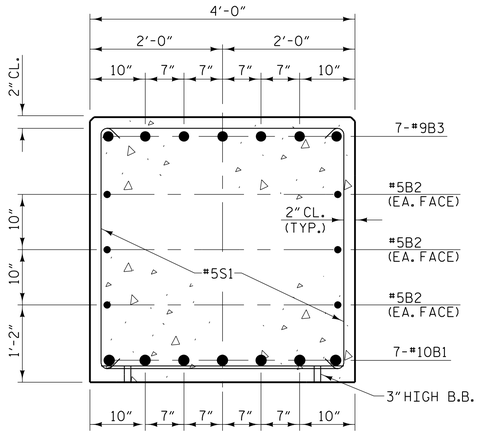
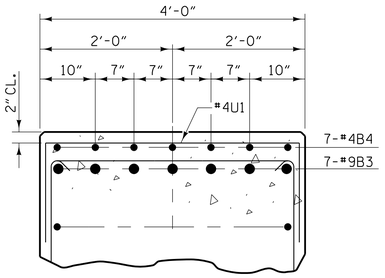
DocuSign Envelope ID: 360FD1EB-57F8-4796-A654-F9F0877950DE



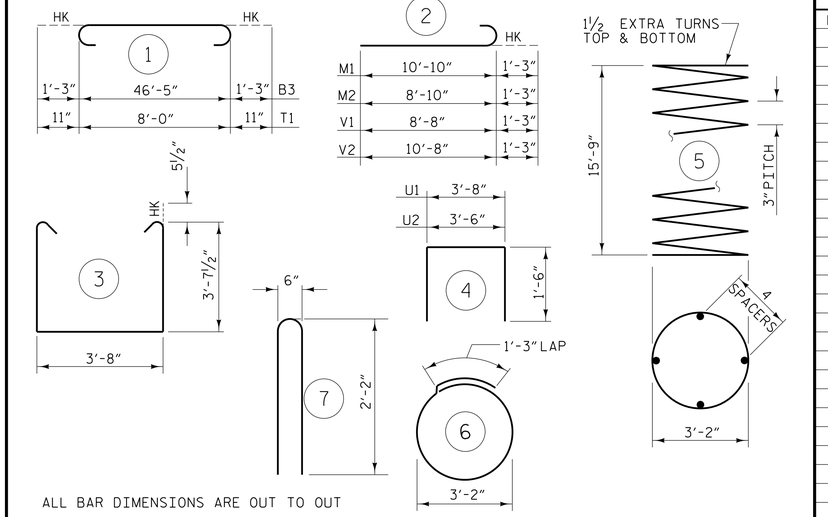
END ELEVATION



SECTION A-A



SECTION B-B



BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	7	#10	STR	46'-5"	1398
B2	12	#5	STR	24'-5"	306
B3	7	#9	1	48'-11"	1164
B4	7	#4	STR	3'-8"	17
M1	21	#9	2	12'-1"	863
M2	21	#9	2	10'-1"	720
S1	72	#5	3	11'-10"	889
S2	33	#4	6	11'-3"	248
U1	40	#4	4	6'-8"	178
U2	16	#4	4	6'-6"	69
U3	60	#6	7	4'-10"	436
V1	21	#9	2	9'-11"	708
V2	21	#9	2	11'-11"	851
T1	54	#8	1	9'-10"	1418
T2	54	#7	STR	8'-0"	883

TOTAL REINFORCING STEEL	10148 lbs.

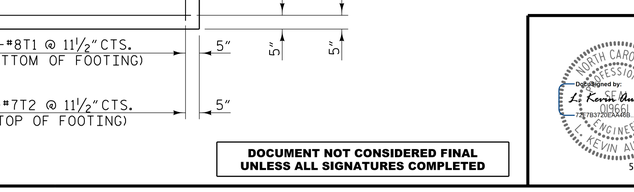
SPIRAL COLUMN REINFORCING STEEL (SP)					
SP-1	3	**	5	646'-0"	2021

TOTAL SPIRAL COLUMN REINFORCING STEEL	2021 lbs.

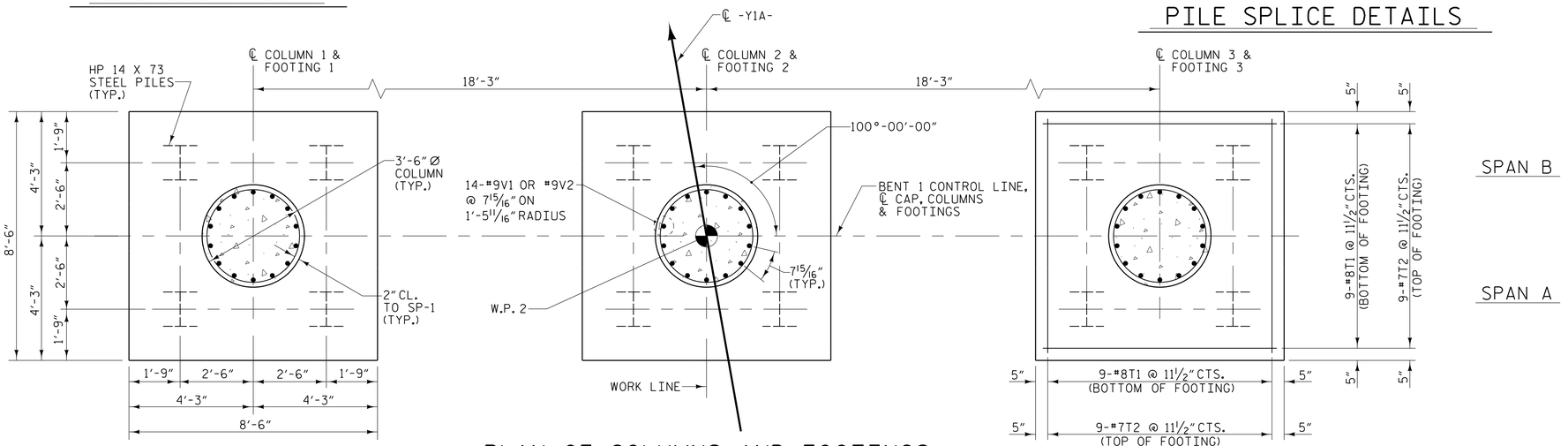
CLASS "A" CONCRETE - CU. YARDS

POUR 1 - FOOTINGS	28.1 CU. YDS.
POUR 2 - COLUMNS	16.6 CU. YDS.
POUR 3 - CAP	28.6 CU. YDS.
TOTAL CLASS "A" CONCRETE	73.3 CU. YDS.

** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.



PILE SPLICE DETAILS



PLAN OF COLUMNS AND FOOTINGS

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

DRAWN BY : W. B. ALLEN DATE : 11/21
CHECKED BY : G. F. WILSON DATE : 11/21
DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE : 12/21

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL ENGINEER L. KEVIN AUSTIN
Digitally signed by: L. Kevin Austin (HCR) 7278372B0A4B8...
5/10/2022

PLANS PREPARED BY:

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333

PROJECT NO. I-5987A
ROBESON COUNTY
STATION: 41+19.02 -Y1A- POT

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-25
1			3			TOTAL SHEETS
2			4			31

5/5/2022 9:23 PM R:\Structures\I-5987A (Y1A\5987A_SMU_B2_T70054.dgn