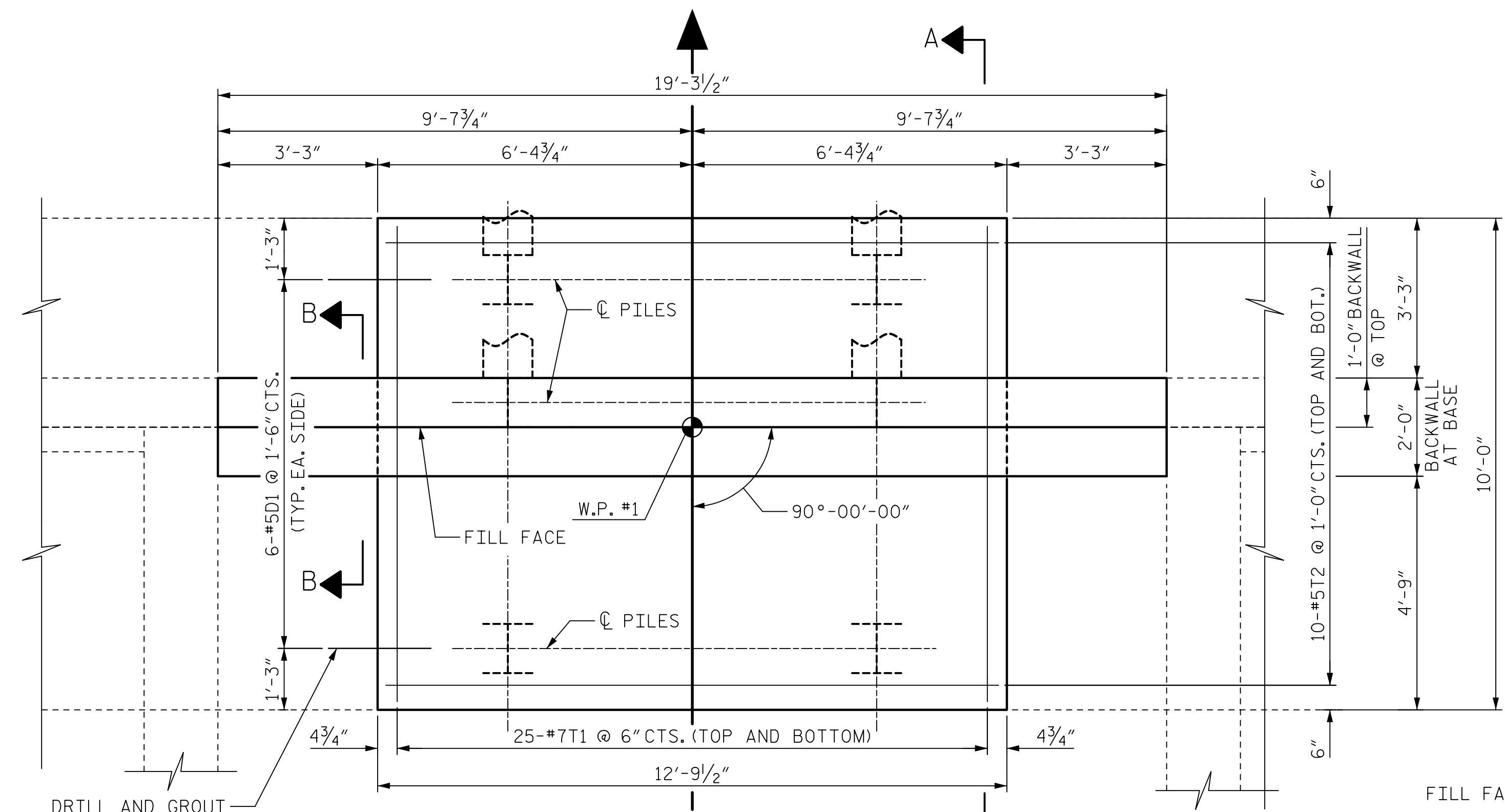
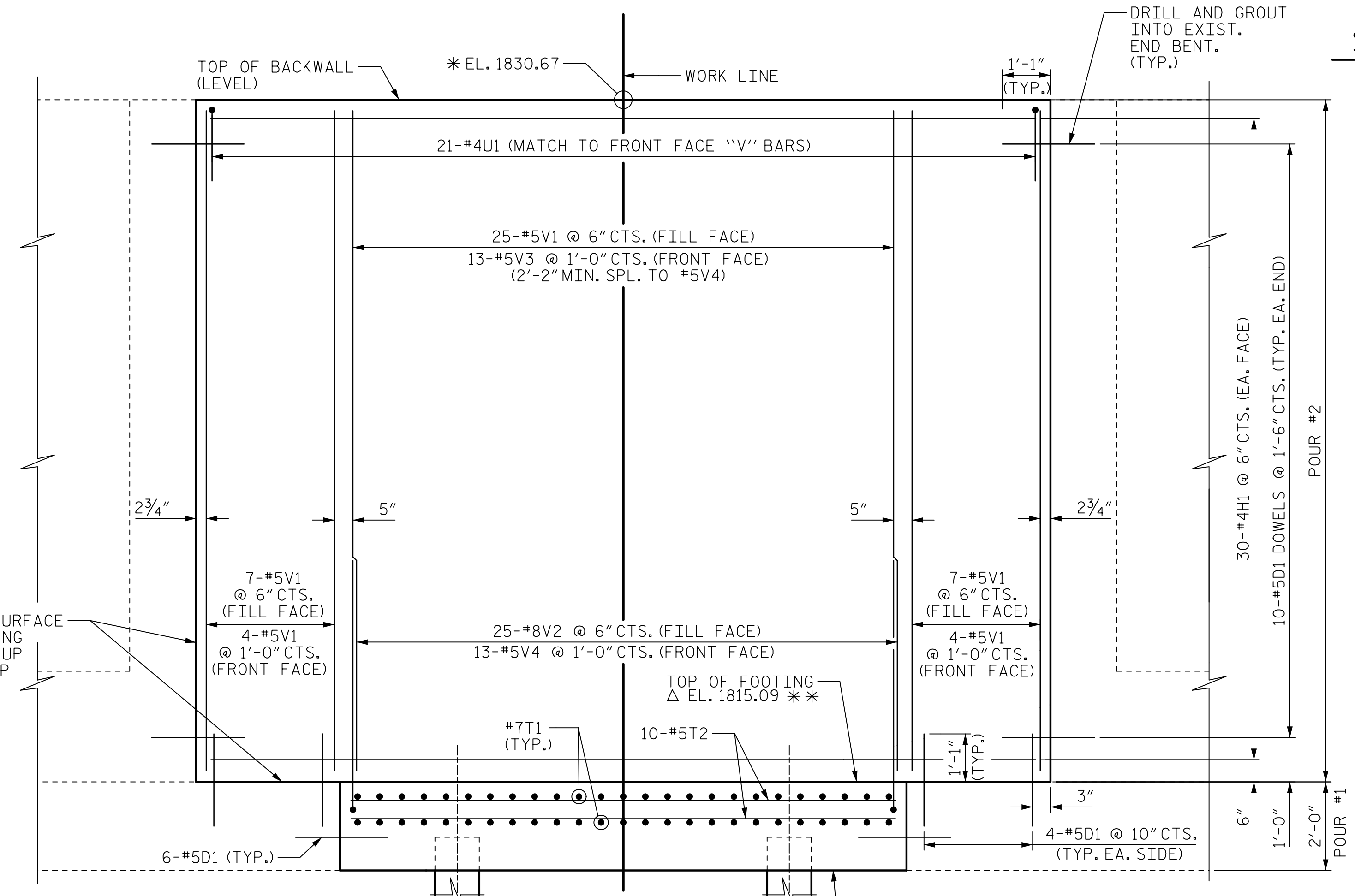


DATE: 2/27/2020
TIME: 4:24:50 PM

USER: Merch/Resonard
DGN: R:\Structures\04 Drawings\01_2019\15BPR.20_SML_EB2.dgn



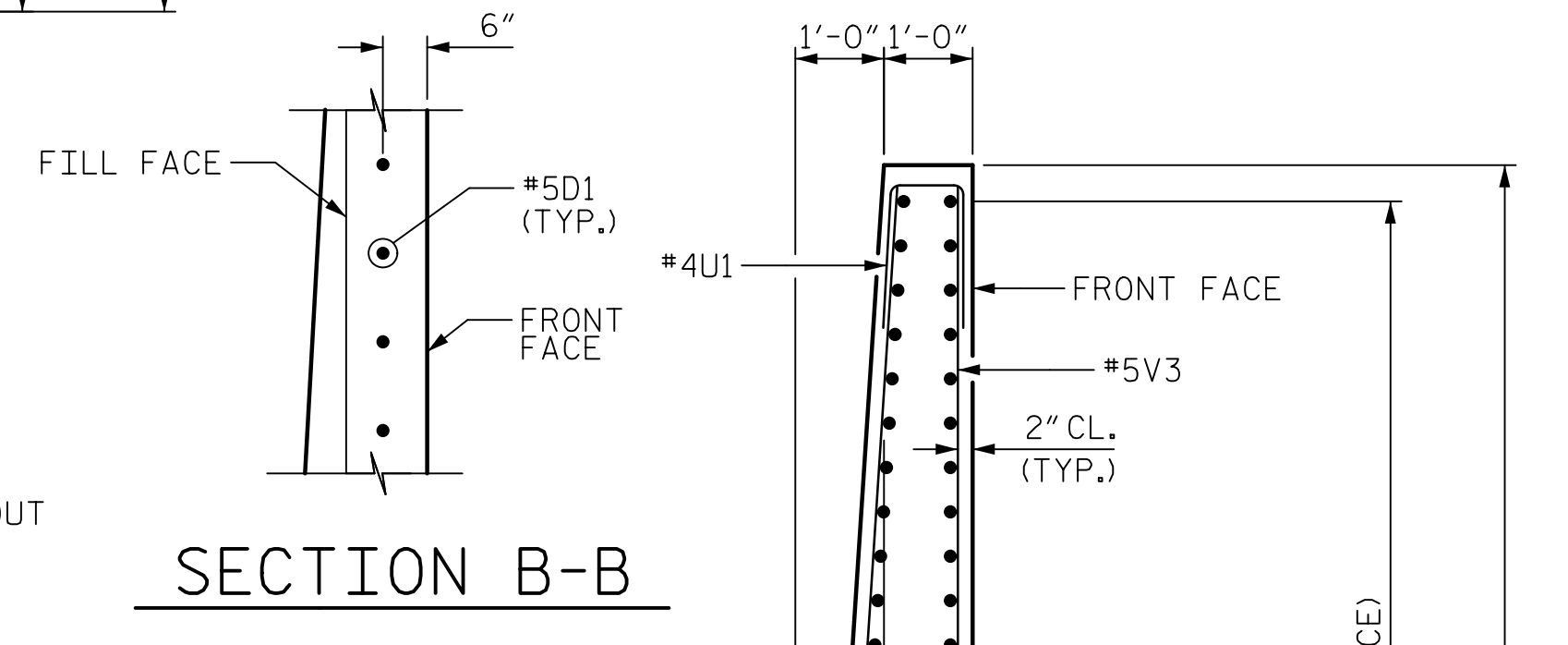
PLAN OF FOOTING
FOR PILE LOCATIONS, SEE SHEET 1.
BACKWALL REINFORCING NOT SHOWN.



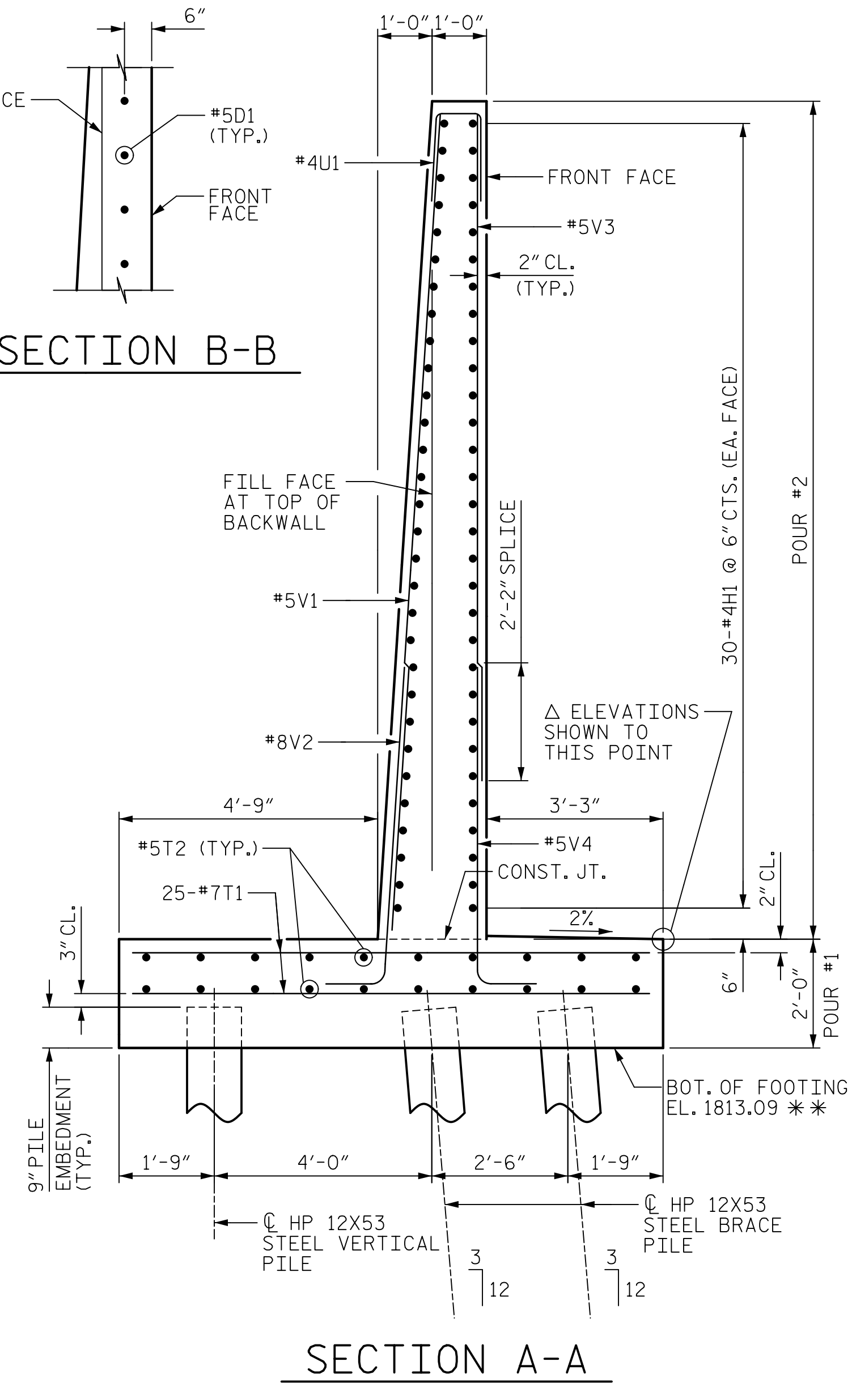
ELEVATION

NOTES

- EXISTING WINGWALL AND TOP OF EXISTING FOOTING AT SIDES TO BE CONNECTED TO NEW SECTION SHALL BE CLEANED AND SCARIFIED TO 1/4" DEEP.
- REINFORCEMENT MAY BE SLIGHTLY SHIFTED AS NECESSARY TO AVOID DOWELS.
- *#5V1 AND *#5V3 BARS IN BACKWALL SHALL BE PLACED 2" CLEAR FROM THE TOP OF THE BACKWALL.
- THE TOP SURFACE AREAS OF THE END BENT CAP SHALL BE CURED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- DOWELS SHALL BE DRILLED AND GROUTED WITH A TYPE 3A EPOXY IN ACCORDANCE WITH SECTION 1081 OF THE STANDARD SPECIFICATIONS.
- EXPOSED SURFACES OF END BENT SHALL BE PROTECTED WITH SILANE. SILANE SHALL NOT BE APPLIED UNTIL STAGES II AND III ARE COMPLETE. SEE SPECIAL PROVISIONS.
- INSTALL THE 2" Ø PIPE DRAIN THROUGH THE BACKWALL AS REQUIRED ON THE TYPICAL SECTION DETAILS SHEET. REINFORCING MAY BE SHIFTED AS NECESSARY TO CLEAR THE DRAIN.
- * TOP OF BACKWALL ELEVATION SHALL MATCH TOP OF PROPOSED FLOORBEAM AT END BENT.
- ** ELEVATIONS SHOWN ARE BASED ON BEST AVAILABLE INFORMATION AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. TOP AND BOTTOM OF PROPOSED FOOTING SHALL MATCH ELEVATIONS OF ADJACENT EXISTING FOOTINGS. ANY DEVIATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTING THE FOOTING.
- FOR SILANE TREATMENT, SEE SPECIAL PROVISIONS.



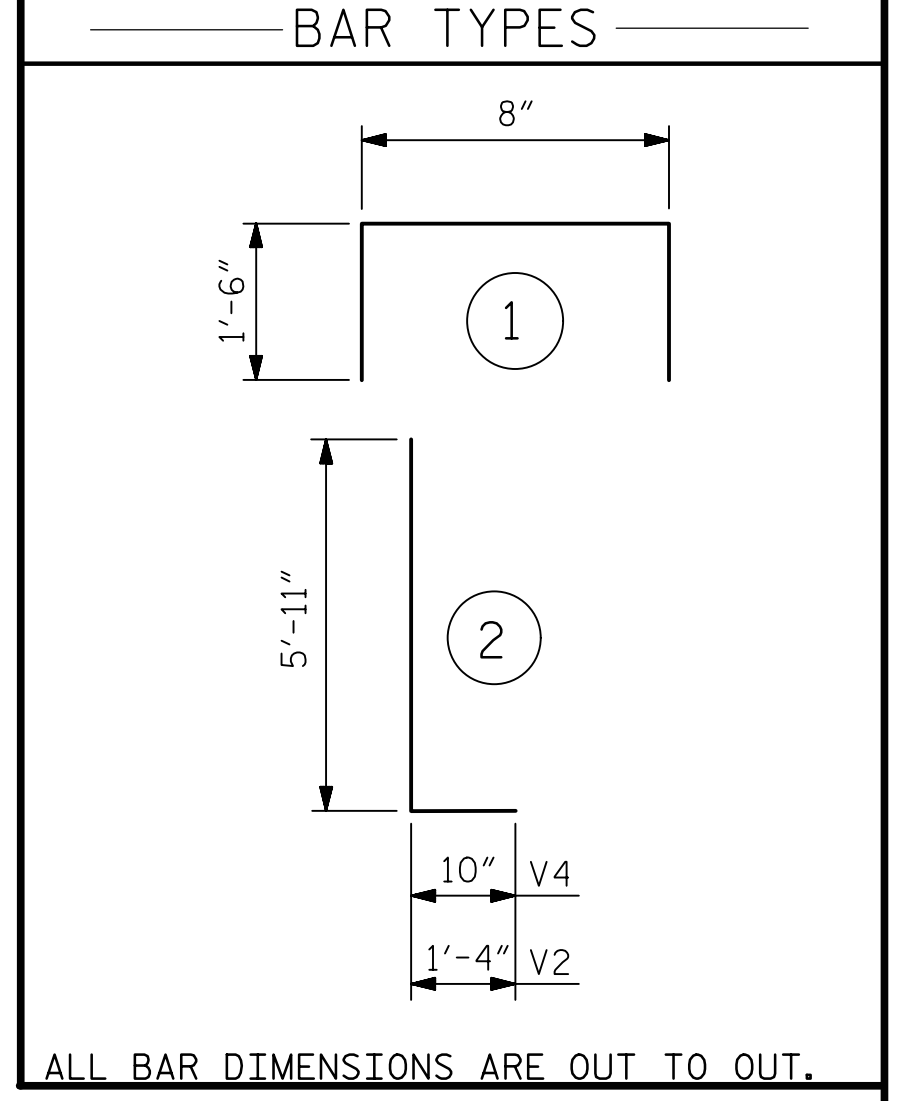
SECTION B-B



SECTION A-A

BILL OF MATERIAL

END BENT 1					
BAR	No.	SIZE	TYPE	LENGTH	WEIGHT
D1	40	5	STR	1'-9"	73
H1	60	4	STR	18'-11"	758
T1	50	7	STR	9'-8"	988
T2	20	5	STR	12'-5"	259
U1	21	4	1	3'-8"	51
V1	47	5	STR	15'-0"	735
V2	25	8	2	7'-3"	484
V3	13	5	STR	12'-5"	168
V4	13	5	2	6'-9"	92
TOTAL REINFORCING STEEL					3608 LBS.
TOTAL CLASS A CONCRETE					26.0 CY
POUR 1 (FOOTING)					9.5 CY
POUR 2 (WALL)					16.5 CY
HP 12 X 53 STEEL PILES					
No. 6					150
STEEL PILE POINTS					6 EA.
PILE EXCAVATION					
IN SOIL					48 LF
NOT IN SOIL					12 LF
PILE DRIVING EQUIP. SETUP					6 EA.
SILANE TREATMENT					1900 SF.
SURFACE PREPARATION FOR SILANE					1900 SF.



ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. 15BPR.20
HENDERSON COUNTY
 STATION: 35+30.22 -L-

SHEET 2 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE

END BENT 1
STAGE IA

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-113
 TOTAL SHEETS 129

DRAWN BY : K. DONALD DATE : 2/2019
 CHECKED BY : G. COLS DATE : 3/2019
 DESIGNED BY : K. MUENCH DATE : 3/2019
 DESIGN CHECKED BY : J. SLOAN DATE : 3/2019

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED