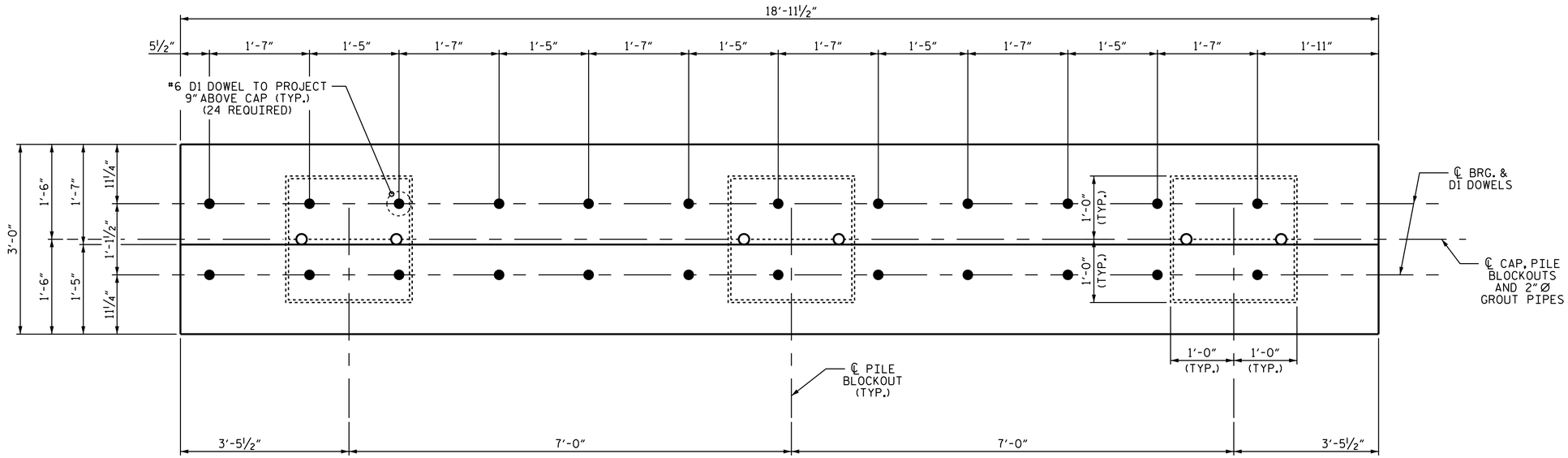
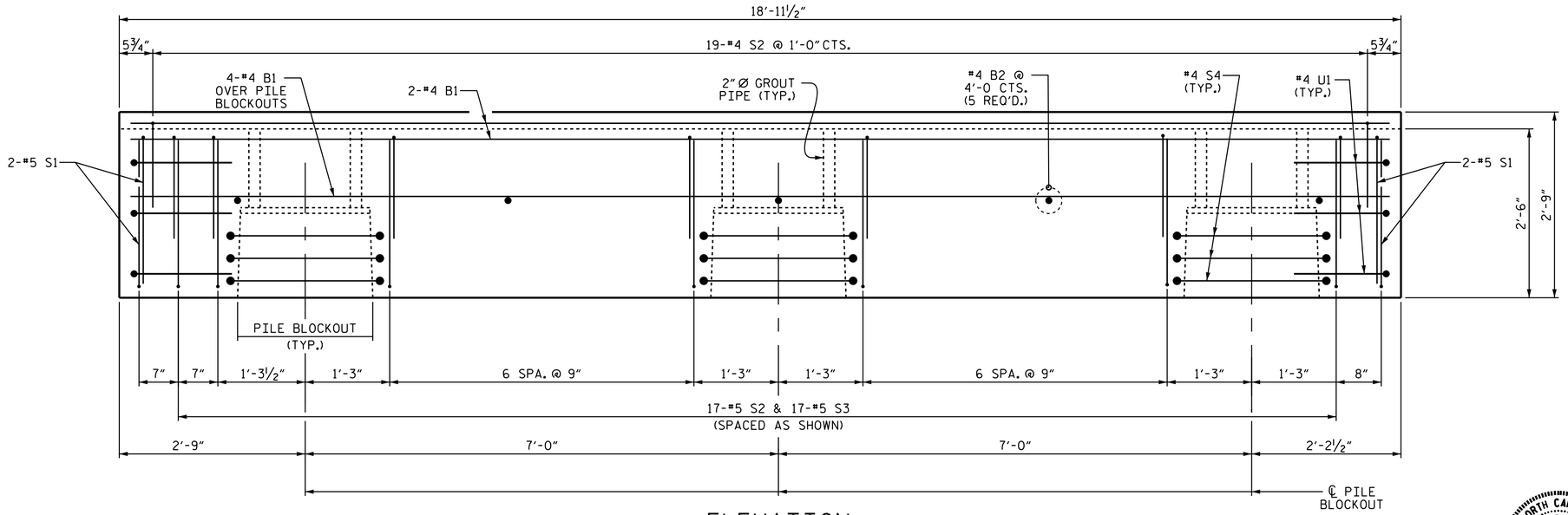


PLAN

(FOR PILE BLOCKOUT DETAILS, SEE SHEET 6 OF 6)



ELEVATION

(#6 D1 DOWELS NOT SHOWN FOR CLARITY)

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRECAST PIECES ARE ORIENTED DIFFERENTLY FOR BENT No. 1 AND BENT No. 2.

BILL OF MATERIAL FOR ONE PIECE B-05

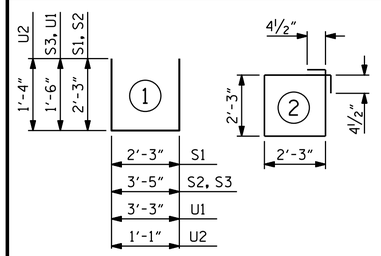
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#4	STR	18'-7"	99
B2	5	#4	STR	2'-8"	9
D1	24	#6	STR	1'-6"	54
S1	8	#5	1	6'-5"	54
S2	17	#5	1	7'-3"	129
S3	17	#5	1	5'-9"	102
S4	9	#4	2	9'-9"	59
U1	6	#4	1	5'-7"	22
U2	19	#4	1	3'-9"	48

REINFORCING STEEL 576 LBS

4000 PSI PRESTRESSED CONCRETE 4.7 C.Y.
PILE BLOCKOUT GROUT ▲ 0.4 C.Y.

0.6" Ø L.R. STRANDS No. 12

BAR TYPES



▲ GROUT DISPLACED BY THE 16" PRESTRESSED CONCRETE PILES HAS BEEN DEDUCTED FROM THE GROUT QUANTITY.

GRADE 270 STRANDS	0.6" Ø L.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

PROJECT NO. B-5124
NASH COUNTY
STATION: 54+85.50 -L-

SHEET 5 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
PRESTRESSED PIECE B-05
ALTERNATE 1

NORTH CAROLINA PROFESSIONAL SEAL 025516 ENGINEER EMILY E. MURRAY
3/9/2015
DocuSigned by: Emily Murray
CAEB97AEDCSB4E0...

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-64E
1			3			TOTAL SHEETS
2			4			71

DRAWN BY : M. A. ALLEN DATE : 3/15
CHECKED BY : E. E. MURRAY DATE : 3/15

09-MAR-2015 09:28
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STR. #3