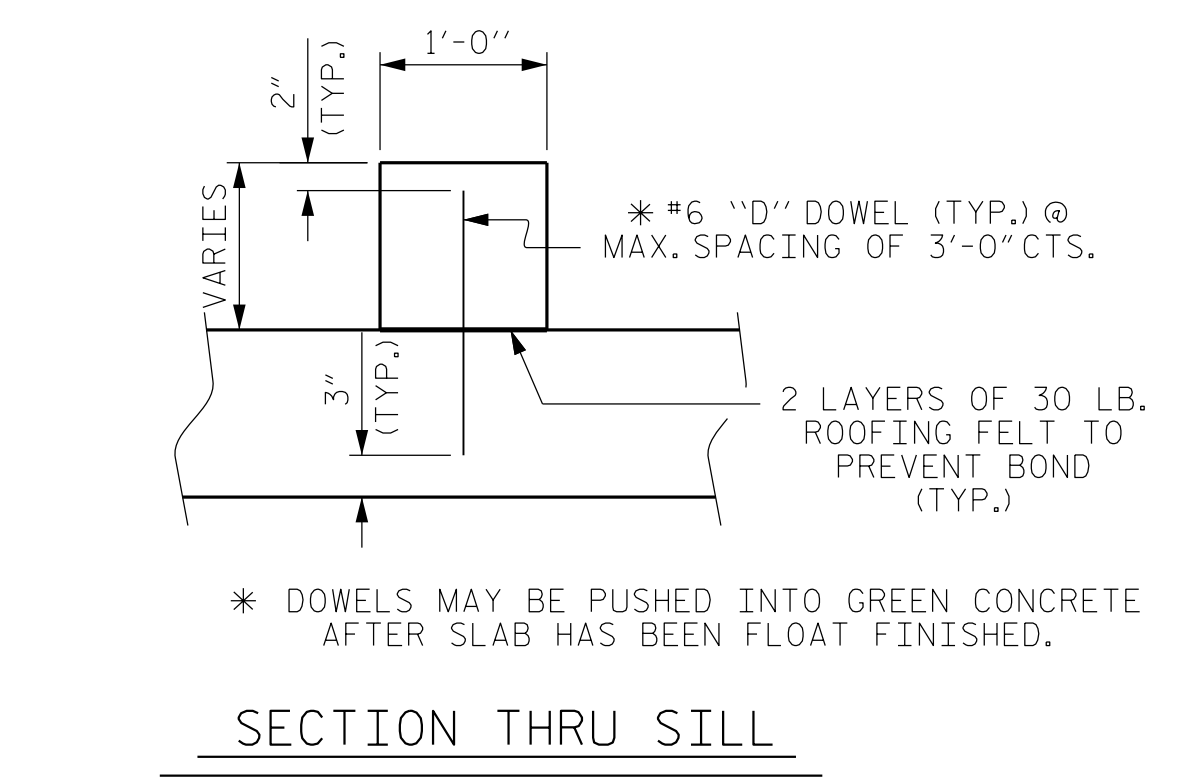
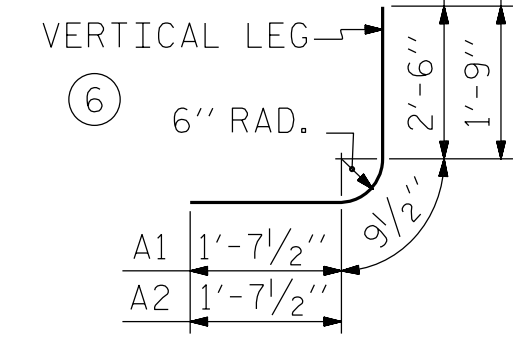


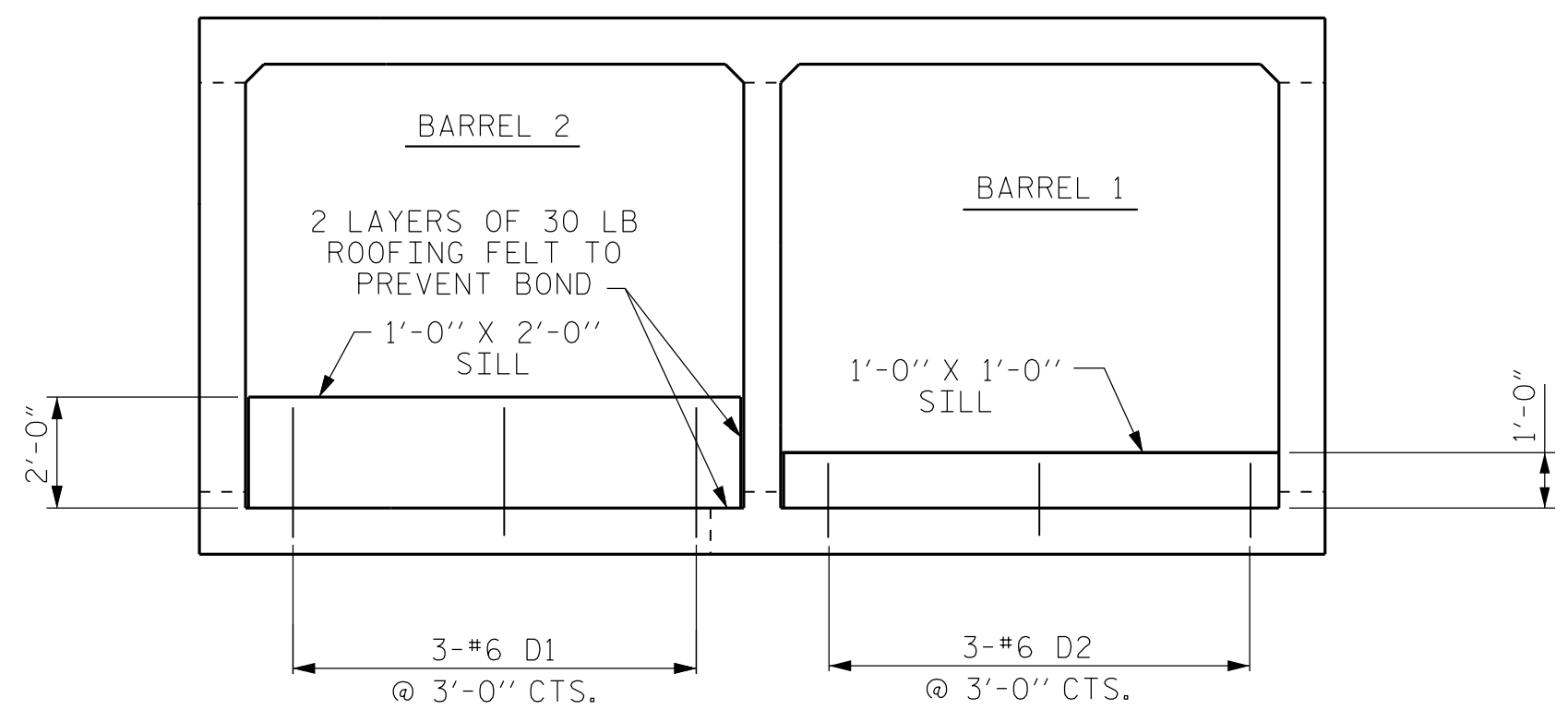
FLOOR SILL LAYOUT

BAR TYPE		REINFORCING BAR SCHEDULE									
		PHASE I					PHASE II				
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	84	#4	1	4'-11"	276	A1	84	#4	1	4'-11"	276
A2	188	#4	1	4'-2"	523	A2	84	#4	1	4'-2"	234
A200	96	#4	STR.	12'-9"	818	A100	84	#5	STR.	19'-8"	1723
A400	84	#5	STR.	13'-1"	1146	A250	96	#4	STR.	8'-4"	534
B1	52	#4	STR.	9'-7"	333	A300	84	#4	STR.	19'-8"	1104
B2	84	#4	STR.	7'-4"	411	A450	84	#5	STR.	8'-4"	730
B3	104	#4	STR.	9'-7"	666	B1	52	#4	STR.	9'-7"	333
C1	62	#4	STR.	26'-10"	1111	B2	84	#4	STR.	7'-4"	411
D2	6	#6	STR.	1'-5"	13	C1	90	#4	STR.	26'-10"	1613
REINFORCING STEEL					5297 LBS.	REINFORCING STEEL					7144 LBS.
G1					8	#5	STR.	19'-8"	164		
D1					6	#6	STR.	2'-5"	22		
REINFORCING STEEL						REINFORCING STEEL					7144 LBS.

SPLICE CHART		
BAR	SIZE	SPLICE LENGTH
A200	#4	1'-5"
A400	#5	1'-9"
C1	#4	1'-11"
B1	#4	1'-5"
B3	#4	1'-5"



SECTION THRU SILL



ELEVATION
LOOKING DOWNSTREAM

PHASE I STRUCTURE QUANTITIES	
CLASS A CONCRETE	
BARREL	37.9 C.Y.
WINGS ETC.	11.9 C.Y.
TOTAL	49.8 C.Y.
REINFORCING STEEL	
BARREL	5297 LBS.
WINGS ETC.	721 LBS.
TOTAL	6018 LBS.
CULVERT EXCAVATION	LUMP SUM
FOUNDATION COND. MAT'L.	49 TONS

PHASE II STRUCTURE QUANTITIES	
CLASS A CONCRETE	
BARREL	68.8 C.Y.
WINGS ETC.	17.4 C.Y.
TOTAL	86.2 C.Y.
REINFORCING STEEL	
BARREL	7144 LBS.
WINGS ETC.	1043 LBS.
TOTAL	8187 LBS.
CULVERT EXCAVATION	LUMP SUM
FOUNDATION COND. MAT'L.	39 TONS

NOTES

BED MATERIAL PLACED IN THE CULVERT BARRELS SHALL BE MATERIAL THAT IS EXCAVATED FROM THE STREAM BED OR FLOODPLAIN DURING CONSTRUCTION OF THE CULVERT. RIP RAP MAY BE USED TO SUPPLEMENT THE BED MATERIAL IN THE HIGH FLOW BARREL. IF RIP RAP IS USED, IT SHOULD BE PLACED IN THE BOTTOM PORTION OF THE BARREL WITH BED MATERIAL PLACED ON TOP TO FILL THE VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. BED MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

SILLS ARE TO BE 1.0 FT. WIDE AND CAST SEPARATELY AND ATTACHED BY DOWELS. TOP OF SILL IN LOW FLOW BARREL SHOULD MATCH STREAM BED ELEVATION IN LOW FLOW CHANNEL OF STREAM.

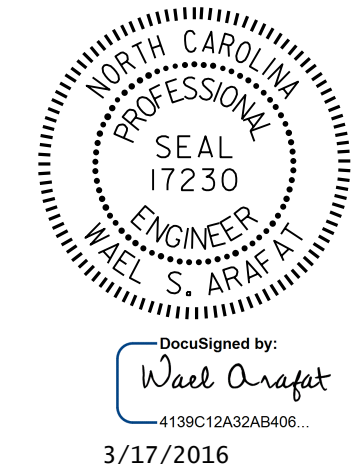
THE ENTIRE COST OF WORK REQUIRED TO STOCKPILE AND PLACE THE EXCAVATED MATERIAL, AND SUPPLEMENTAL MATERIAL IF USED, SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR CULVERT EXCAVATION.

PROJECT NO. B-5147
ASHE COUNTY
 STATION: 10+66.00 -L-

SHEET 5 OF 9

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DOUBLE 9 FT. X 8 FT.
 CONCRETE BOX CULVERT
 90°-00'-00" SKEW



DRAWN BY: V.X. NGUYEN DATE: 12-7-15
 CHECKED BY: H.T. BARBOUR DATE: 1-4-16
 DESIGN ENGINEER OF RECORD: A. M. LEE DATE: 1-26-16

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-5
1			3			TOTAL SHEETS
2			4			9