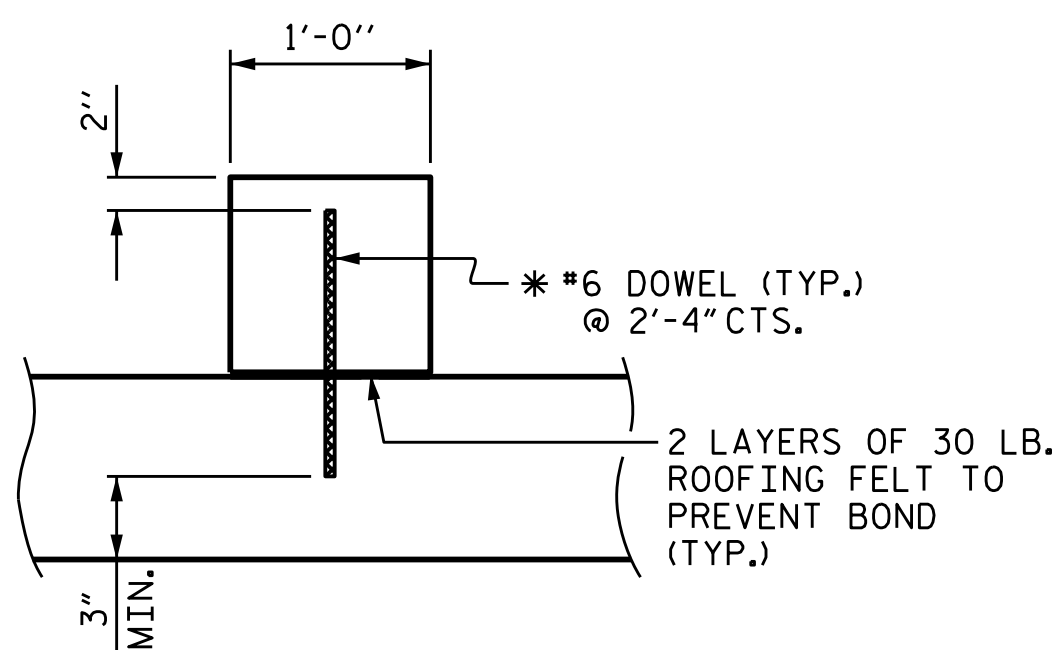


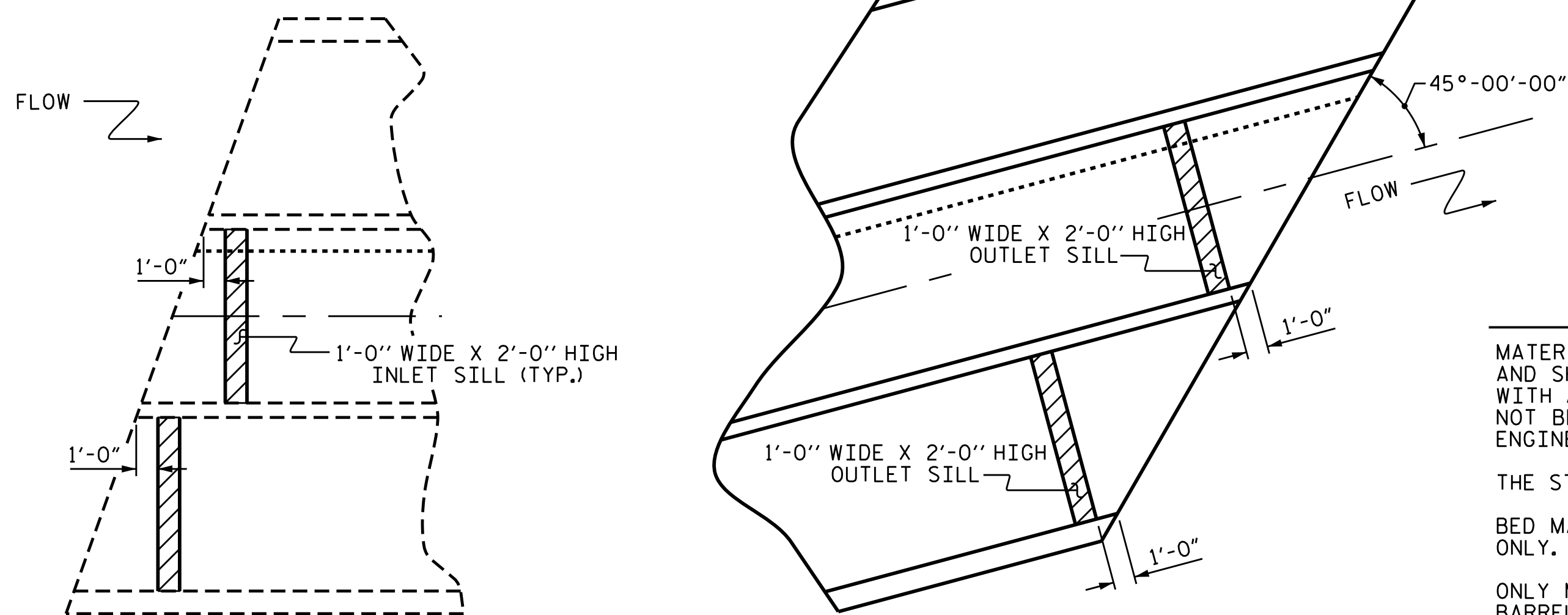
ELEVATION
(LOOKING DOWN STREAM)



SECTION THROUGH SILL

* DOWELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.

CULVERT SILL DETAILS



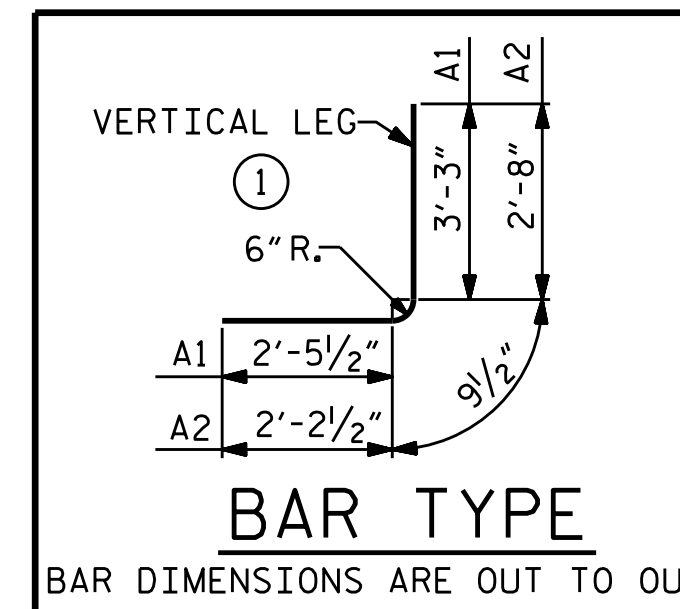
EXISTING INLET END

PROPOSED OUTLET END

PLAN VIEW SHOWING SILL/BAFFLE LOCATIONS

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	321	#4	1	6'-6"	1394	A300	138	#4	STR.	26'-11"	2481	B3	520	#4	STR.	11'-6"	3995
A2	321	#5	1	5'-8"	1897	A301	2	#4	STR.	24'-5"	33	C1	665	#4	STR.	26'-6"	11772
A100	138	#6	STR.	26'-11"	5579	A302	2	#4	STR.	20'-2"	27	D1	50	#6	STR.	2'-6"	188
A101	2	#6	STR.	24'-5"	73	A303	2	#4	STR.	15'-11"	21	D2	8	#6	STR.	3'-1"	37
A102	2	#6	STR.	20'-2"	61	A304	2	#4	STR.	11'-10"	16	D3	8	#6	STR.	3'-3"	39
A103	2	#6	STR.	15'-11"	48	A305	2	#4	STR.	7'-7"	10	E1	16	#5	STR.	4'-7"	76
A104	2	#6	STR.	11'-10"	36	A306	2	#4	STR.	3'-5"	5	E2	16	#5	STR.	5'-9"	96
A105	2	#6	STR.	7'-7"	23	A307	2	#4	STR.	26'-0"	35	G1	4	#5	STR.	38'-5"	160
A106	2	#6	STR.	3'-5"	10	A308	2	#4	STR.	24'-6"	33	S2	6	#8	STR.	38'-5"	615
A107	2	#6	STR.	26'-0"	78	A309	2	#4	STR.	23'-0"	31	S3	12	#8	STR.	28'-7"	916
A108	2	#6	STR.	24'-6"	74	A310	2	#4	STR.	21'-6"	29	TOTAL REINFORCING STEEL 47977 LBS.					
A109	2	#6	STR.	23'-0"	69	A311	2	#4	STR.	20'-0"	27						
A110	2	#6	STR.	21'-6"	65	A312	2	#4	STR.	18'-6"	25						
A111	2	#6	STR.	20'-0"	60	A313	2	#4	STR.	17'-0"	23						
A112	2	#6	STR.	18'-6"	56	A314	2	#4	STR.	15'-6"	21						
A113	2	#6	STR.	17'-0"	51	A315	2	#4	STR.	14'-0"	19						
A114	2	#6	STR.	15'-6"	47	A316	2	#4	STR.	12'-6"	17						
A115	2	#6	STR.	14'-0"	42	A317	2	#4	STR.	11'-0"	15						
A116	2	#6	STR.	12'-6"	38	A318	2	#4	STR.	9'-6"	13						
A117	2	#6	STR.	11'-0"	33	A319	2	#4	STR.	8'-0"	11						
A118	2	#6	STR.	9'-6"	29	A320	2	#4	STR.	6'-6"	9						
A119	2	#6	STR.	8'-0"	24	A321	2	#4	STR.	5'-0"	7						
A120	2	#6	STR.	6'-6"	20	A322	2	#4	STR.	3'-6"	5						
A121	2	#6	STR.	5'-0"	15	A400	138	#6	STR.	26'-11"	5579						
A122	2	#6	STR.	3'-6"	11	A401	2	#6	STR.	24'-5"	73						
A200	138	#6	STR.	26'-11"	5579	A402	2	#6	STR.	20'-2"	61						
A201	2	#6	STR.	24'-5"	73	A403	2	#6	STR.	15'-11"	48						
A202	2	#6	STR.	20'-2"	61	A404	2	#6	STR.	11'-10"	36						
A203	2	#6	STR.	15'-11"	48	A405	2	#6	STR.	7'-7"	23						
A204	2	#6	STR.	11'-10"	36	A406	2	#6	STR.	3'-5"	10						
A205	2	#6	STR.	7'-7"	23	A407	2	#6	STR.	26'-0"	78						
A206	2	#6	STR.	3'-5"	10	A408	2	#6	STR.	24'-6"	74						
A207	2	#6	STR.	26'-0"	78	A409	2	#6	STR.	23'-0"	69						
A208	2	#6	STR.	24'-6"	74	A410	2	#6	STR.	21'-6"	65						
A209	2	#6	STR.	23'-0"	69	A411	2	#6	STR.	20'-0"	60						
A210	2	#6	STR.	21'-6"	65	A412	2	#6	STR.	18'-6"	56						
A211	2	#6	STR.	20'-0"	60	A413	2	#6	STR.	17'-0"	51						
A212	2	#6	STR.	18'-6"	56	A414	2	#6	STR.	15'-6"	47						
A213	2	#6	STR.	17'-0"	51	A415	2	#6	STR.	14'-0"	42						
A214	2	#6	STR.	15'-6"	47	A416	2	#6	STR.	12'-6"	38						
A215	2	#6	STR.	14'-0"	42	A417	2	#6	STR.	11'-0"	33						
A216	2	#6	STR.	12'-6"	38	A418	2	#6	STR.	9'-6"	29						
A217	2	#6	STR.	11'-0"	33	A419	2	#6	STR.	8'-0"	24						
A218	2	#6	STR.	9'-6"	29	A420	2	#6	STR.	6'-6"	20						
A219	2	#6	STR.	8'-0"	24	A421	2	#6	STR.	5'-0"	15						
A220	2	#6	STR.	6'-6"	20	A422	2	#6	STR.	3'-6"	11						
A221	2	#6	STR.	5'-0"	15	B1	321	#4	STR.	11'-6"	2466						
A222	2	#6	STR.	3'-6"	11	B2	321	#4	STR.	8'-4"	1787						



BAR	SIZE	SPLICE LENGTH
A200	#6	3'-3"
A400	#6	2'-4"
B1 & B3	#4	1'-5"
C1	#4	1'-11"

NOTES

MATERIAL EXCAVATED FROM THE EXISTING BED SHALL BE STOCKPILED FOR USE IN THE PROPOSED CULVERT AND SHALL PROVIDE A CONTINUOUS HIGH FLOW CHANNEL AS SHOWN. THE MATERIAL SHALL BE NATURAL STONE WITH A GRADATION SIZE SIMILAR TO THAT OF CLASS B RIP RAP. STONES LARGER THAN 6 INCHES SHALL NOT BE PLACED WITHIN THE LOW FLOW CHANNEL. BED MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

THE STOCKPILED MATERIAL SHALL BE PLACED TO THE LEVEL OF 2' BETWEEN THE HIGH FLOW SILLS.

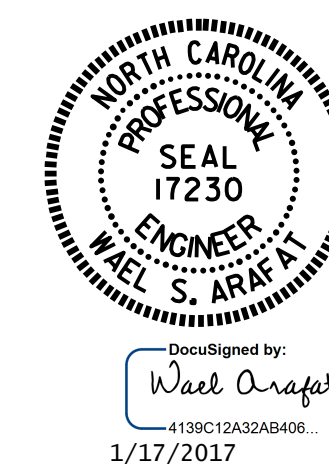
BED MATERIAL SHALL BE SUPPLEMENTED BY CLASS B RIP RAP AS NECESSARY IN THE HIGH FLOW BARRELS ONLY.

ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAM BED MAY BE USED TO LINE THE LOW FLOW CULVERT BARREL.

BED MATERIAL SHALL BE PLACED ON TOP OF THE SUPPLEMENTAL FILL, IF USED, TO PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE.

THE ENTIRE COST OF WORK REQUIRED TO PLACE EXCAVATED OR SUPPLEMENTAL MATERIAL AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR CULVERT EXCAVATION.

THE ENTIRE COST OF WORK REQUIRED TO CONSTRUCT THE SILLS SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.



PROJECT NO. I-5000
GASTON COUNTY
STATION: 16+57.60 -RPA-

SHEET 6 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRIPLE 8 FT. X 9 FT.
RCBC
51°-00'-00" SKEW
(RIGHT EXTENSION)

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			C-17
2			4			TOTAL SHEETS 26

DRAWN BY : H. T. BARBOUR DATE : 11-16-16
CHECKED BY : I. L. AVERETTE DATE : 11-16-16
DESIGN ENGINEER OF RECORD : A. M. LEE DATE : 11-16-16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED