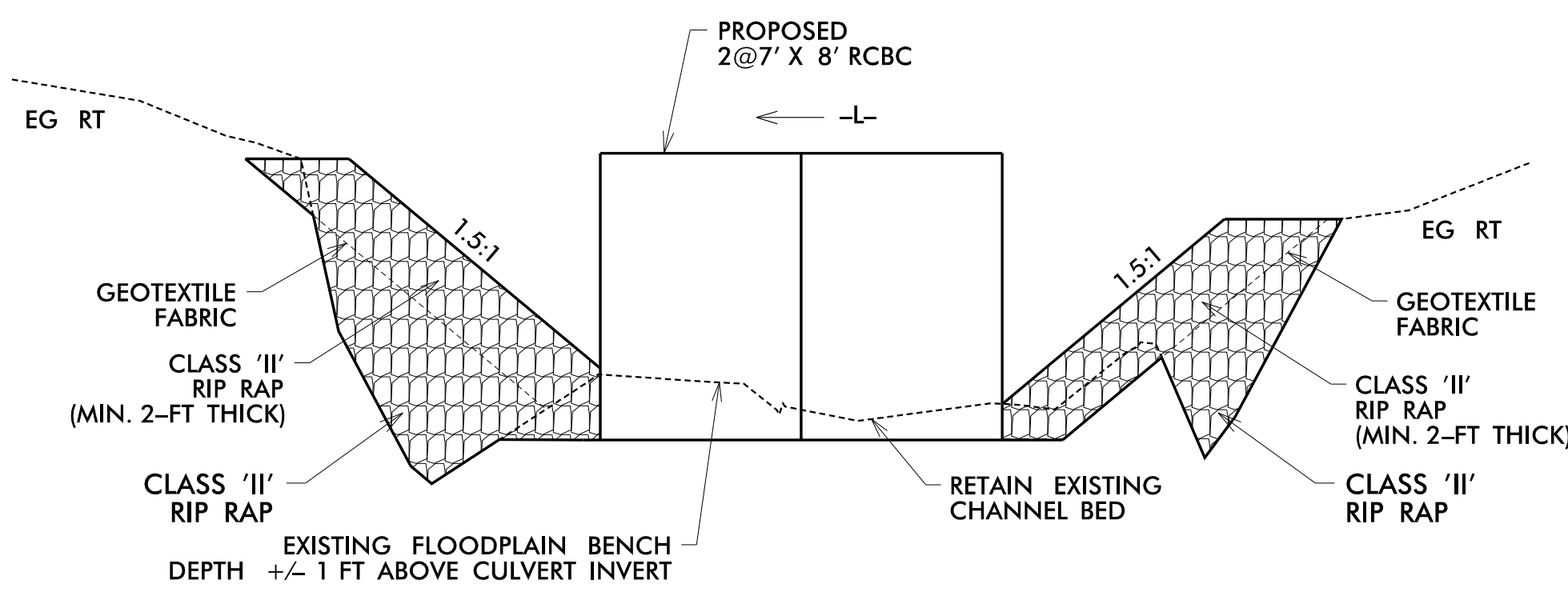


INLET DETAIL

TOTAL EST. EXCAVATION AT INLET = 10 C.Y.
 TOTAL EST. CL II RIP RAP AT INLET = 75 TONS
 TOTAL EST. GEOTEXTILE AT INLET = 85 S.Y.
 TOTAL EST. COIR FIBER MAT = 40 S.Y.



OUTLET DETAIL

TOTAL EST. CL II RIP RAP AT INLET = 100 TONS
 TOTAL EST. GEOTEXTILE AT INLET = 85 S.Y.
 TOTAL EST. COIR FIBER MAT = 40 S.Y.

NATIVE BED MATERIAL SHALL BE PLACED ALONG THE FLOODPLAIN BENCH UP AND DOWNSTREAM OF THE PROPOSED CULVERT. NATIVE MATERIALS CONSIST OF MATERIAL THAT IS EXCAVATED FROM THE STREAM BED OR FLOODPLAIN AT THE PROJECT SITE DURING CULVERT CONSTRUCTION. RIP RAP SHOULD BE USED TO SUPPLEMENT THE NATIVE MATERIAL. NATIVE MATERIAL SHOULD BE PLACED ON TOP OF RIP RAP TO FACILITATE ANIMAL PASSAGE. THE TOP SURFACE OF THE NATURAL STREAM BED MATERIAL SHALL BE PLACED AND LEVELED TO A FLAT SURFACE TO ALLOW FOR ANIMAL PASSAGE. NATIVE MATERIAL AND RIP RAP ARE SUBJECT TO PERMIT CONDITIONS.

NO SILLS ARE TO BE INSTALLED IN THE PROPOSED CULVERT. NO BACKFILL IS TO BE PLACED WITHIN THE PROPOSED CULVERT.

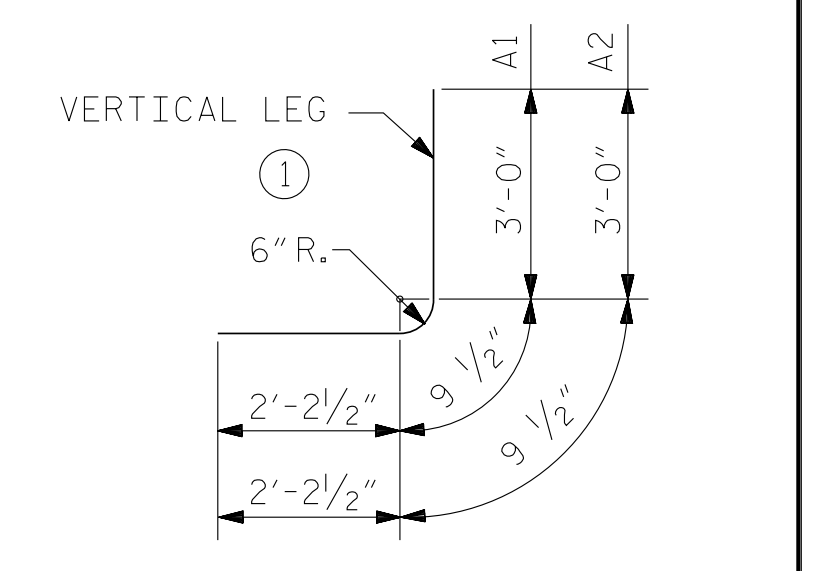
BED MATERIALS; SAND, SILT, COBBLE, SMALL BOULDERS.

MAINTAIN EXISTING FLOODPLAIN BENCH DEPTH OF +/- 1 FT UPSTREAM OF CULVERT INLET.

BILL OF MATERIAL

LEFT EXTENSION						RIGHT EXTENSION					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	152	#5	1	6'-0"	951	A1	28	#5	1	6'-0"	175
A2	152	#5	1	6'-0"	951	A2	28	#5	1	6'-0"	175
A100	72	#6	STR	15'-8"	1694	A100	14	#6	STR	15'-8"	329
A101	1	#6	STR	14'-4"	22	A200	14	#6	STR	15'-8"	329
A102	1	#6	STR	12'-11"	19	A300	14	#6	STR	15'-8"	329
A103	1	#6	STR	11'-6"	17	A400	14	#6	STR	15'-8"	329
A104	1	#6	STR	10'-0"	15						
A105	1	#6	STR	8'-7"	13	B1	28	#4	STR	9'-9"	182
A106	1	#6	STR	7'-2"	11	B2	28	#4	STR	7'-3"	136
A107	1	#6	STR	5'-8"	9	B3	12	#4	STR	9'-9"	78
A108	1	#6	STR	4'-3"	6						
A109	1	#6	STR	2'-10"	4	C3	104	#4	STR	11'-7"	805
A110	1	#6	STR	1'-4"	2						
A111	4	#6	STR	10'-10"	65	D1	37	#6	STR	2'-6"	139
A200	72	#6	STR	15'-8"	1694	G2	4	#5	STR	15'-8"	65
A201	1	#6	STR	14'-4"	22						
A102	1	#6	STR	12'-11"	19	S2	18	#8	STR	15'-8"	753
A203	1	#6	STR	11'-6"	17						
A204	1	#6	STR	10'-0"	15						
A205	1	#6	STR	8'-7"	13						
A206	1	#6	STR	7'-2"	11						
A207	1	#6	STR	5'-8"	9						
A208	1	#6	STR	4'-3"	6						
A209	1	#6	STR	2'-10"	4						
A210	1	#6	STR	1'-4"	2						
A211	4	#6	STR	10'-10"	65						
A300	72	#6	STR	15'-8"	1694						
A301	1	#6	STR	14'-4"	22						
A302	1	#6	STR	12'-11"	19						
A303	1	#6	STR	11'-6"	17						
A304	1	#6	STR	10'-0"	15						
A305	1	#6	STR	8'-7"	13						
A306	1	#6	STR	7'-2"	11						
A307	1	#6	STR	5'-8"	9						
A308	1	#6	STR	4'-3"	6						
A309	1	#6	STR	2'-10"	4						
A310	1	#6	STR	1'-4"	2						
A311	4	#6	STR	10'-10"	65						
A400	72	#6	STR	15'-8"	1694						
A401	1	#6	STR	14'-4"	22						
A402	1	#6	STR	12'-11"	19						
A403	1	#6	STR	11'-6"	17						
A404	1	#6	STR	10'-0"	15						
A405	1	#6	STR	8'-7"	13						
A406	1	#6	STR	7'-2"	11						
A407	1	#6	STR	5'-8"	9						
A408	1	#6	STR	4'-3"	6						
A409	1	#6	STR	2'-10"	4						
A410	1	#6	STR	1'-4"	2						
A411	4	#6	STR	10'-10"	65						
B1	154	#4	STR	9'-9"	1003						
B2	154	#4	STR	7'-3"	746						
B3	64	#4	STR	9'-9"	417						
C1	104	#4	STR	20'-0"	1389						
C2	208	#4	STR	25'-1"	3485						
D1	37	#6	STR	2'-6"	139						
G1	4	#5	STR	18'-0"	75						
S1	6	#8	STR	18'-0"	288						
S2	12	#8	STR	15'-8"	502						
REINFORCING STEEL					17,454	REINFORCING STEEL					3,824

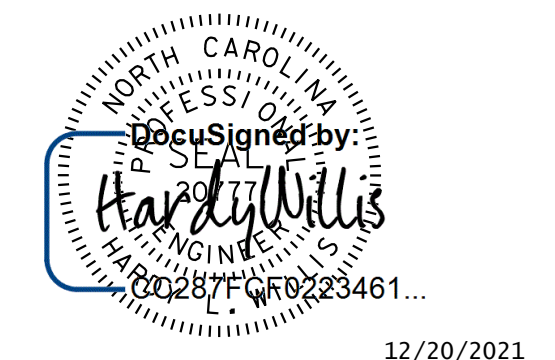
BAR TYPE



BAR DIMENSIONS ARE OUT TO OUT

SPLICE LENGTHS

BAR MARK	SIZE	SPLICE LENGTH
B1	#4	1'-9"
B3	#4	1'-9"
C1	#4	1'-11"



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

V&M
 Vaughn & Melton
 Consulting Engineers

Asheville, North Carolina
 828-253-2796

Raleigh, NC 919-977-9455 | Charlotte, NC 704-357-0488

Boone, NC 828-355-9933 | Tri-Cities, TN 423-467-8401 | Knoxville, TN 865-546-5800 | Spartanburg, SC 864-514-4775 | Charleston, SC 843-974-5650 | Middlesboro, KY 606-248-6600 | Atlanta, GA 770-627-3509

Copyright © 2006 Vaughn & Melton, Inc. All Rights Reserved

PROJECT NO. U-5738
 ROWAN COUNTY
 STATION: 41+20.00 -L-

SHEET 6 OF 9

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DOUBLE 7FT. X 8FT. CONCRETE BOX CULVERT RIGHT EXTENSION

DWN. BY: WDC DATE: 10/2017
 CHKD. BY: HLW DATE: 11/2017
 DES. EGR. OF RECORD: RTS DATE: 11/2017

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-6
1			3			TOTAL SHEETS 9
2			4			