NOTES:

CULVERT FLOOR SLAB IS BURIED 1.0' BELOW EXISTING STREAM BED. SILLS ARE NOT REQUIRED IN LOW FLOW BARREL 2. BACKFILL BARRELS WITH NATIVE MATERIAL TO APPROXIMATE STREAM BED LEVEL IN LOW FLOW BARREL 2, AND TO SILL HEIGHT IN BARREL 1.

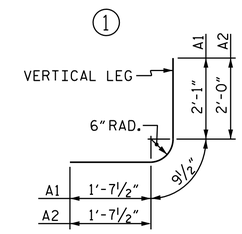
NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM BED AT THE PROJECT SITE DURING CULVERT CONSTRUCTION. ONLY NATIVE MATERIAL MAY BE USED TO BACKFILL THE LOW FLOW CULVERT BARREL 2. RIP RAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL USED TO BACKFILL THE HIGH FLOW CULVERT BARREL 1. IF RIP RAP IS USED TO BACKFILL THE HIGH FLOW CULVERT BARREL, NATIVE MATERIAL SHALL BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE.

NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	300	#4	1	4'-6"	902
A2	328	#4	1	4'-5"	968
A100	328	#4	STR	23'-7"	5167
A200	328	#4	STR	23'-7"	5167
A300	400	#4	STR	23'-7"	6302
A400	360	#5	STR	23'-7"	8855
B1	300	#4	STR	8'-7"	1720
B2	300	#4	STR	6'-4"	1269
B3	300	#4	STR	8'-7"	1720
C1	510	#4	STR	26'-9"	9113
D1	8	#6	STR	2'-8"	32
G1	8	#5	STR	23'-8"	197
REINFORCING STEEL				LBS	41,414

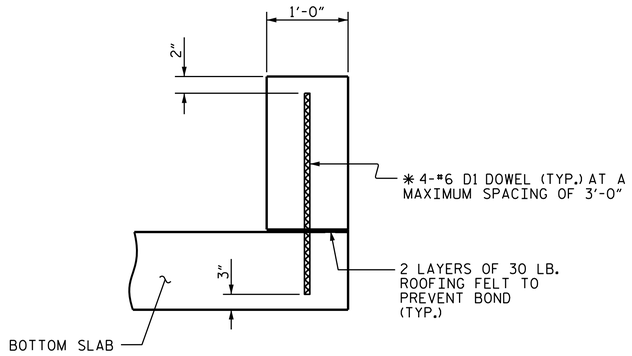
BAR TYPE



BAR DIMENSIONS ARE OUT TO OUT

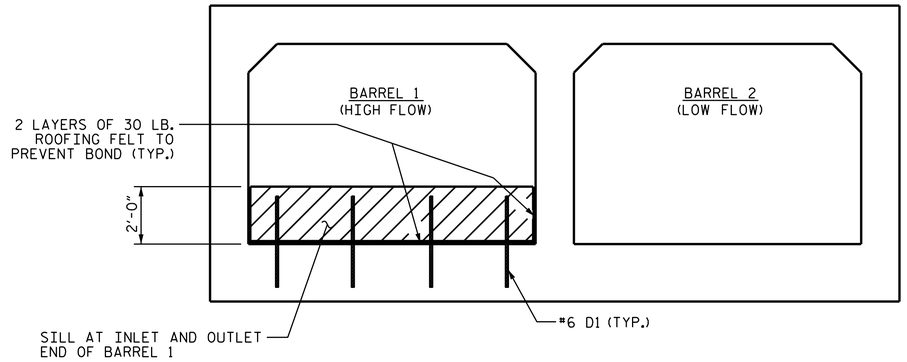
SPLICE LENGTHS CHART

BAR	SIZE	SPLICE LENGTH
C1	#4	1'-11"



SECTION THROUGH SILL

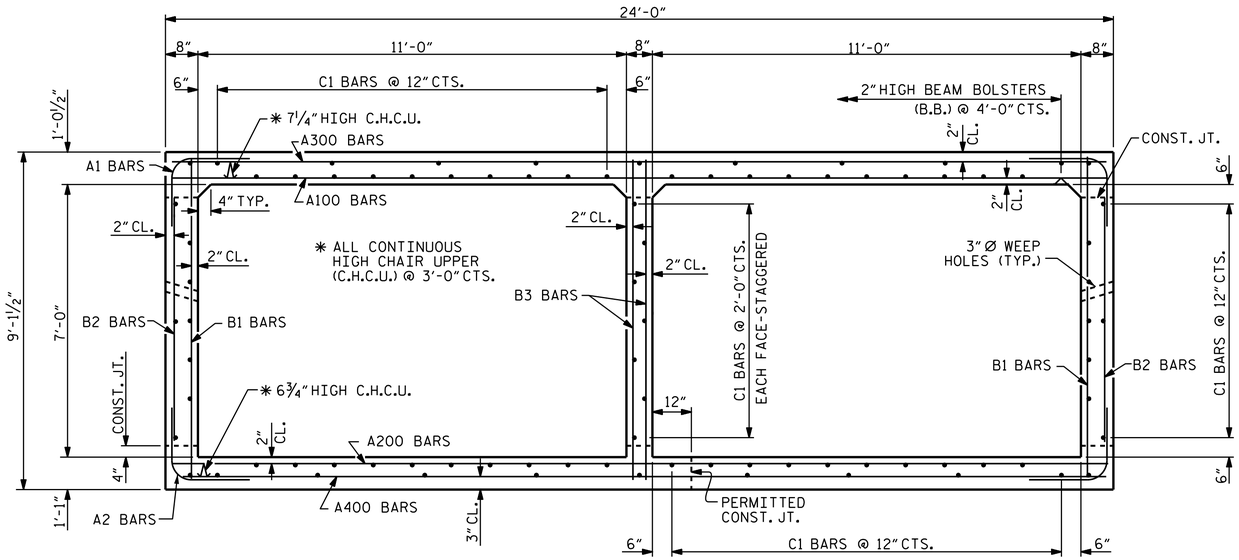
✱ DOWELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.



ELEVATION

CONCRETE SILL DETAILS

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE NATIVE MATERIAL BACKFILL SHALL BE PLACED PRIOR TO THE CASTING OF THE ROOF SLAB.



RIGHT ANGLE SECTION OF BARREL

THERE ARE 85 C1 BARS IN SECTION OF BARREL. (6 BAR RUNS)

PROJECT NO. R-0623

MONTGOMERY COUNTY

STATION: 283+62.00 -L-

SHEET 3 OF 5

NORTH CAROLINA PROFESSIONAL SEAL 21545 ENGINEER STEVEN L. WANCE

9/29/2014

DocuSigned by: Steve L. Wance 986CB74EEDF1402...

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 11 FT. X 7 FT. CONCRETE BOX CULVERT 88° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-27
1			3			TOTAL SHEETS
2			4			29

CULVERT #5

DRAWN BY : S. WANCE DATE : 12/12

CHECKED BY : F. LEA DATE : 12/12

29-SEP-2014 11:37
K:\TIPProjects-R\R0623\Structures\Plans\FinalPlans\R0623_sd_cul5.dgn
tfang