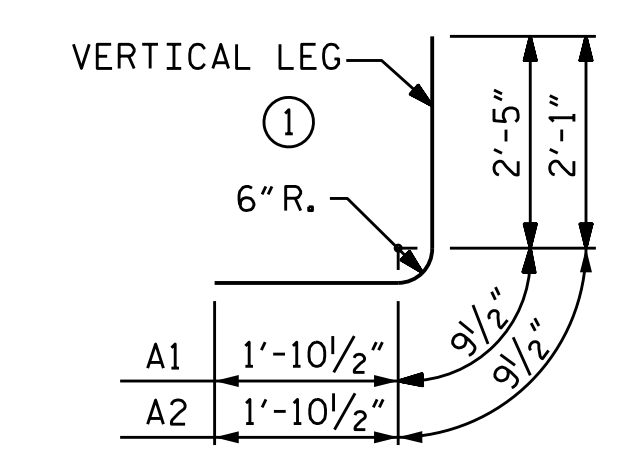


RIGHT ANGLE SECTION OF BARREL

THERE ARE 80 "C" BARS IN SECTION OF BARREL.
(4 BAR RUNS)

BAR TYPE **REINFORCING STEEL BAR SCHEDULE**



BAR DIMENSIONS ARE OUT TO OUT

SPLICE LENGTH CHART

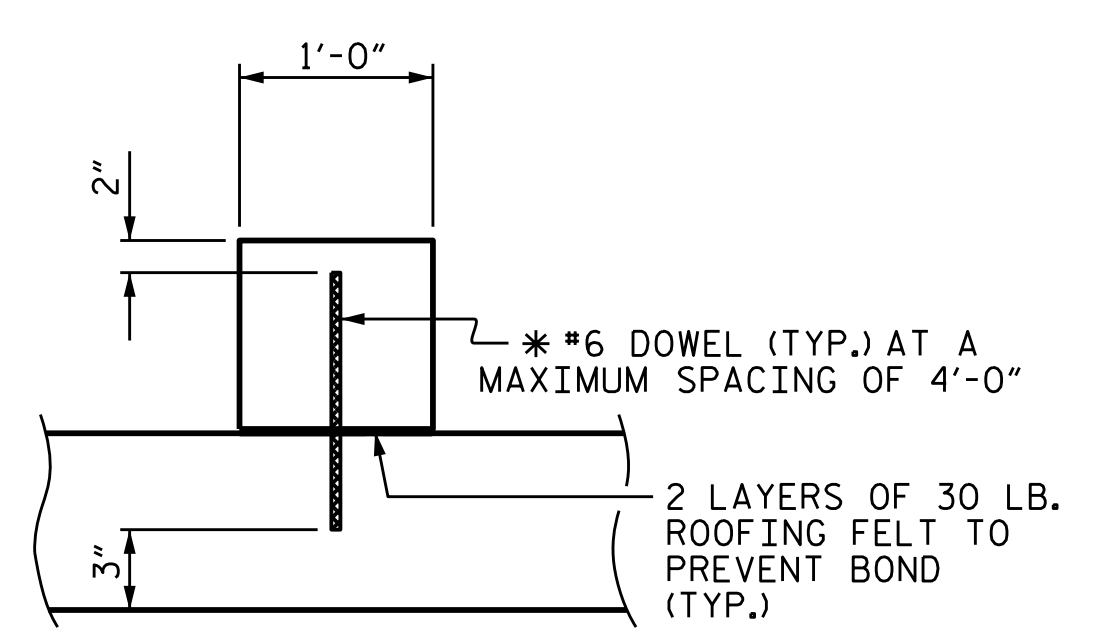
BAR	SIZE	SPLICE LENGTH
A200	4	1'-5"
A400	4	1'-9"
B1	4	1'-5"
B3	4	1'-5"
C1	4	1'-11"

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		
A100	120	4	STR	21'-7"	1730	A400	156	4	STR	21'-7"	2249
A101	6	4	STR	19'-11"	80	A401	8	4	STR	19'-11"	106
A102	6	4	STR	18'-4"	73	A402	8	4	STR	18'-3"	98
A103	6	4	STR	16'-8"	67	A403	8	4	STR	16'-7"	89
A104	6	4	STR	15'-1"	60	A404	8	4	STR	14'-11"	80
A105	6	4	STR	13'-5"	54	A405	8	4	STR	13'-3"	71
A106	6	4	STR	11'-10"	47	A406	8	4	STR	11'-7"	62
A107	6	4	STR	10'-2"	41	A407	8	4	STR	9'-11"	53
A108	6	4	STR	8'-7"	34	A408	8	4	STR	8'-3"	44
A109	6	4	STR	6'-11"	28	A409	8	4	STR	6'-7"	35
A110	6	4	STR	5'-4"	21	A410	8	4	STR	4'-11"	26
A111	6	4	STR	3'-8"	15	A411	8	4	STR	3'-3"	17
A112	6	4	STR	2'-1"	8						
A200	130	4	STR	21'-7"	1874	A2	418	4	1	5'-1"	1419
A201	6	4	STR	20'-1"	80	A2	418	4	1	4'-9"	1326
A202	6	4	STR	18'-7"	74	B1	174	4	STR	9'-3"	1075
A203	6	4	STR	17'-1"	68	B2	418	4	STR	7'-4"	2048
A204	6	4	STR	15'-7"	62	B3	174	4	STR	9'-3"	1075
A205	6	4	STR	14'-1"	56						
A206	6	4	STR	12'-7"	50	C1	320	4	STR	23'-3"	4970
A207	6	4	STR	11'-1"	44						
A208	6	4	STR	9'-7"	38	D1	6	6	STR	2'-6"	23
A209	6	4	STR	8'-1"	32						
A210	6	4	STR	6'-7"	26	G1	8	5	STR	30'-7"	255
A211	6	4	STR	5'-1"	20						
A212	6	4	STR	3'-7"	14	S2	12	8	STR	30'-7"	980
A213	6	4	STR	2'-1"	8						
REINFORCING STEEL LBS. 23735											
A300	156	4	STR	21'-7"	2249						
A301	8	4	STR	19'-11"	106						
A302	8	4	STR	18'-3"	98						
A303	8	4	STR	16'-7"	89						
A304	8	4	STR	14'-11"	80						
A305	8	4	STR	13'-3"	71						
A306	8	4	STR	11'-7"	62						
A307	8	4	STR	9'-11"	53						
A308	8	4	STR	8'-3"	44						
A309	8	4	STR	6'-7"	35						
A310	8	4	STR	4'-11"	26						
A311	8	4	STR	3'-3"	17						

NOTES

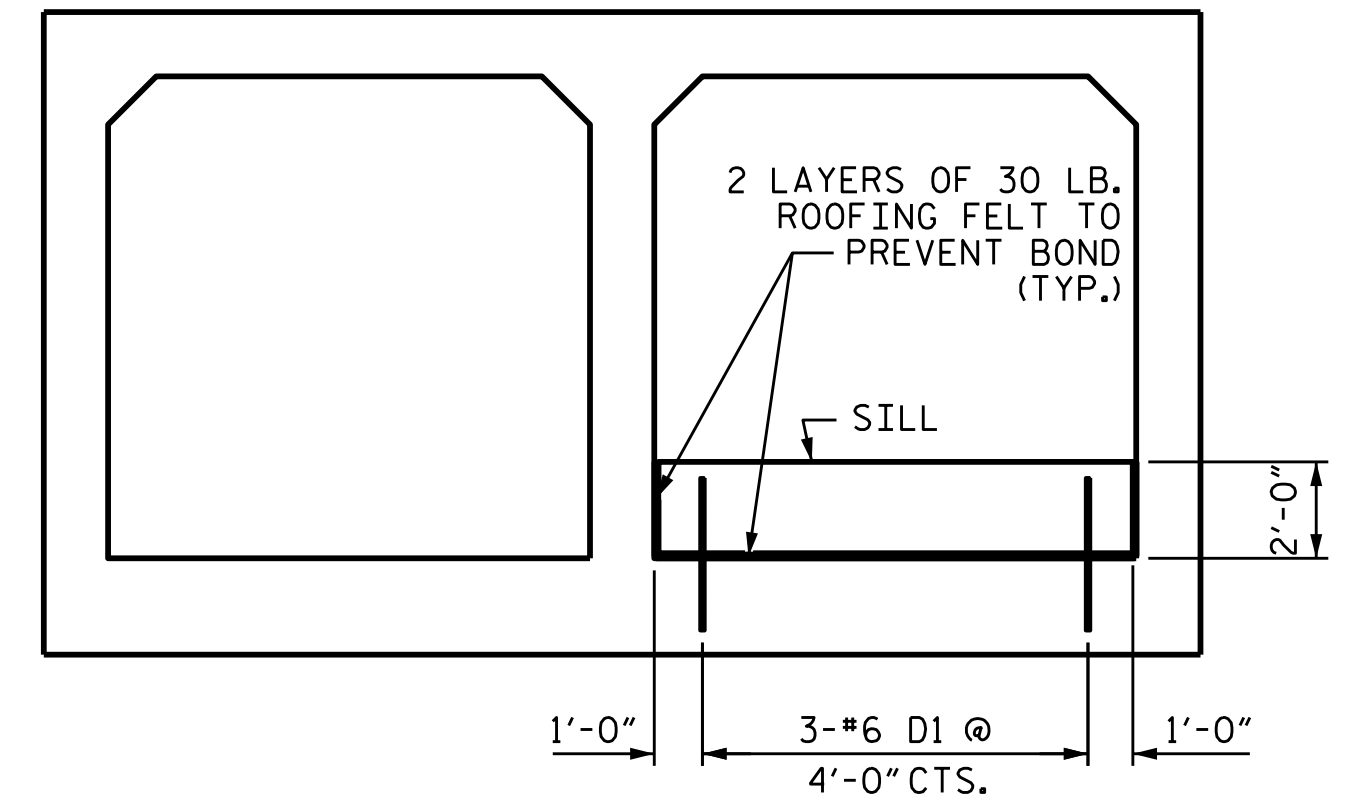
NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM OR FLOODPLAIN AT THE PROJECT SITE DURING CONSTRUCTION. RIP-RAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL IN THE HIGH FLOW CULVERT BARREL(S). NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

DO NOT SET ELEVATION OF HIGH SILL ABOVE THE BANK FULL.



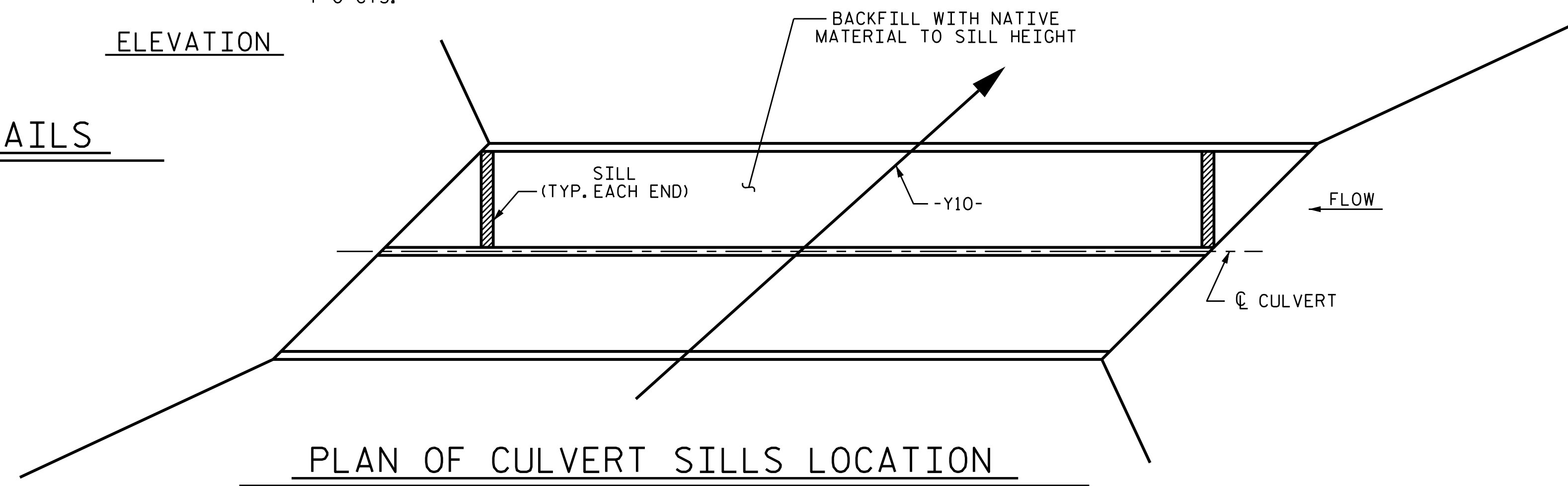
SECTION THROUGH SILL

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



ELEVATION

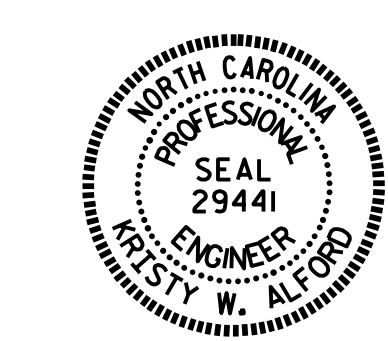
CULVERT SILL DETAILS



PLAN OF CULVERT SILLS LOCATION

PROJECT NO. U-3109A
ALAMANCE COUNTY
 STATION: 19+77.00 -Y10-

SHEET 3 OF 5



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

CULVERT DETAILS

DRAWN BY : A.C. OUTLAW DATE : 4/25/14
 CHECKED BY : W.F. PARKER DATE : 5/14
 DESIGN ENGINEER OF RECORD: K.W. ALFORD DATE : 2/17

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			C3-3
2			4			5