

**REINFORCING BAR SCHEDULE  
FOR PIPE HEADWALL**

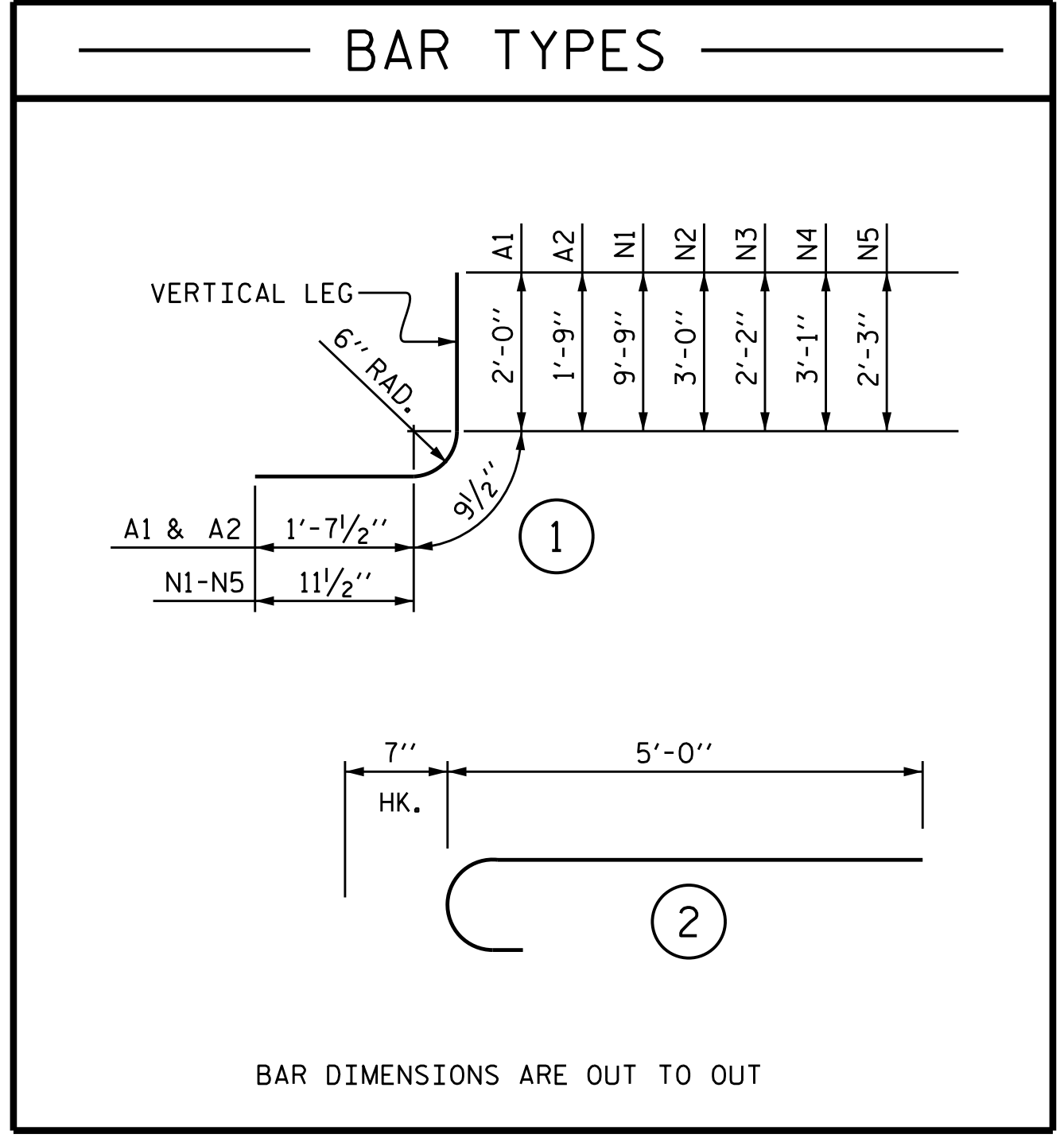
**REINFORCING BAR SCHEDULE FOR BARRELS**

**INLET END - STAGE I      OUTLET END - STAGE I**

**INLET END - STAGE II      OUTLET END - STAGE II**

BAR No.	SIZE	TYPE	LENGTH	WEIGHT	BAR No.	SIZE	TYPE	LENGTH	WEIGHT		
E1	8	#5	STR.	9'-1"	76	E3	4	#5	STR.	8'-8"	36
E2	8	#5	STR.	6'-11"	58	E4	4	#5	STR.	9'-1"	38
G2	4	#5	STR.	20'-1"	84	E5	4	#5	STR.	5'-2"	22
H2	2	#4	STR.	11'-7"	15	E6	4	#5	STR.	6'-3"	26
H3	2	#4	STR.	8'-1"	11	G3	4	#5	STR.	19'-4"	81
H4	2	#4	STR.	7'-10"	10	H13	2	#4	STR.	2'-5"	3
H5	2	#4	STR.	8'-4"	11	H14	2	#4	STR.	1'-8"	2
H6	2	#4	STR.	10'-8"	14	H15	2	#4	STR.	1'-7"	2
H7	4	#4	STR.	17'-7"	47	H16	2	#4	STR.	2'-3"	3
H8	2	#4	STR.	4'-5"	6	H17	6	#4	STR.	16'-10"	67
H9	2	#4	STR.	3'-0"	4	H18	2	#4	STR.	10'-4"	14
H10	2	#4	STR.	2'-8"	4	H19	2	#4	STR.	7'-6"	10
H11	2	#4	STR.	3'-3"	4	H20	2	#4	STR.	7'-5"	10
H12	2	#4	STR.	5'-7"	7	H21	2	#4	STR.	8'-2"	11
N1	20	#5	1	11'-6"	240	N1	18	#5	1	11'-6"	216
N2	4	#5	1	4'-9"	20	N4	4	#5	1	4'-10"	20
N3	4	#5	1	3'-11"	16	N5	4	#5	1	4'-0"	17
T1	4	#5	STR.	20'-0"	83	T2	4	#5	STR.	19'-3"	80
V2	11	#4	STR.	9'-6"	70	V2	10	#4	STR.	9'-6"	63
V3	4	#4	STR.	2'-11"	8	V5	4	#4	STR.	2'-11"	8
V4	4	#4	STR.	2'-1"	6	V6	4	#4	STR.	2'-2"	6
Z1	36	#5	2	5'-7"	210	Z1	34	#5	2	5'-7"	198
TOTAL REINFORCING STEEL    1004 LBS.					TOTAL REINFORCING STEEL    933 LBS.						

BAR No.	SIZE	TYPE	LENGTH	WEIGHT	BAR No.	SIZE	TYPE	LENGTH	WEIGHT		
A100	5	#4	STR.	13'-7"	45	A100	20	#4	STR.	13'-7"	181
A101	2	#4	STR.	12'-0"	16	A101	2	#4	STR.	12'-0"	16
A102	2	#4	STR.	10'-7"	14	A102	2	#4	STR.	10'-7"	14
A103	2	#4	STR.	9'-2"	12	A103	2	#4	STR.	9'-2"	12
A104	2	#4	STR.	7'-8"	10	A104	2	#4	STR.	7'-8"	10
A105	2	#4	STR.	6'-3"	8	A105	2	#4	STR.	6'-3"	8
A106	2	#4	STR.	4'-10"	6	A106	2	#4	STR.	4'-10"	6
A107	2	#4	STR.	3'-4"	4	A107	2	#4	STR.	3'-4"	4
A200	4	#4	STR.	13'-7"	36	A200	18	#4	STR.	13'-7"	163
A201	2	#4	STR.	11'-10"	16	A201	2	#4	STR.	11'-10"	16
A202	2	#4	STR.	10'-3"	14	A202	2	#4	STR.	10'-3"	14
A203	2	#4	STR.	8'-8"	12	A203	2	#4	STR.	8'-8"	12
A204	2	#4	STR.	7'-1"	9	A204	2	#4	STR.	7'-1"	9
A205	2	#4	STR.	5'-6"	7	A205	2	#4	STR.	5'-6"	7
A206	2	#4	STR.	3'-11"	5	A206	2	#4	STR.	3'-11"	5
A207	2	#4	STR.	2'-4"	3	A207	2	#4	STR.	2'-4"	3
A300	4	#4	STR.	13'-7"	36	A300	16	#4	STR.	13'-7"	145
A301	2	#4	STR.	11'-9"	16	A301	2	#4	STR.	11'-9"	16
A302	2	#4	STR.	10'-0"	13	A302	2	#4	STR.	10'-0"	13
A303	2	#4	STR.	8'-3"	11	A303	2	#4	STR.	8'-3"	11
A304	2	#4	STR.	6'-6"	9	A304	2	#4	STR.	6'-6"	9
A305	2	#4	STR.	4'-10"	6	A305	2	#4	STR.	4'-10"	6
A306	2	#4	STR.	3'-1"	4	A306	2	#4	STR.	3'-1"	4
A400	5	#4	STR.	13'-7"	45	A400	23	#4	STR.	13'-7"	209
A401	4	#4	STR.	11'-0"	29	A401	4	#4	STR.	11'-0"	29
A402	4	#4	STR.	8'-7"	23	A402	4	#4	STR.	8'-7"	23
A403	4	#4	STR.	6'-1"	16	A403	4	#4	STR.	6'-1"	16
A404	4	#4	STR.	3'-8"	10	A404	4	#4	STR.	3'-8"	10
A1	24	#4	1	4'-5"	71	A1	48	#4	1	4'-5"	142
A2	24	#4	1	4'-2"	67	A2	48	#4	1	4'-2"	134
B1	24	#4	STR.	7'-11"	127	B1	48	#4	STR.	7'-11"	254
B2	24	#4	STR.	6'-4"	102	B2	48	#4	STR.	6'-4"	203
B3	24	#4	STR.	7'-11"	127	B3	48	#4	STR.	7'-11"	254
C1	57	#4	STR.	11'-1"	422	C1	57	#4	STR.	23'-8"	901
D1	30	#6	STR.	2'-6"	113	D1	30	#6	STR.	2'-6"	113
G1	4	#5	STR.	15'-9"	66	G1	4	#5	STR.	15'-9"	66
S2	6	#8	STR.	15'-9"	252	S2	6	#8	STR.	15'-9"	252
S3	12	#6	STR.	15'-9"	284	S3	12	#6	STR.	15'-9"	284
H1	2	#4	STR.	15'-11"	21	H1	2	#4	STR.	15'-9"	21
V1	32	#4	STR.	2'-4"	50	V1	32	#4	STR.	2'-4"	50
TOTAL REINFORCING STEEL    2,137 LBS.					TOTAL REINFORCING STEEL    3,645 LBS.						



**STAGE I QUANTITIES**

CLASS A CONCRETE	
INLET END HEADWALL	= 11.0 CY
INLET WING W1	= 9.8 CY
OUTLET END HEADWALL	= 11.3 CY
OUTLET WING W4	= 5.8 CY
TOTAL	37.9 CY
REINFORCING STEEL	
INLET END HEADWALL	= 1004 LBS.
INLET WING W1	= 613 LBS.
OUTLET END HEADWALL	= 933 LBS.
OUTLET WING W4	= 389 LBS.
TOTAL	2,939 LBS.

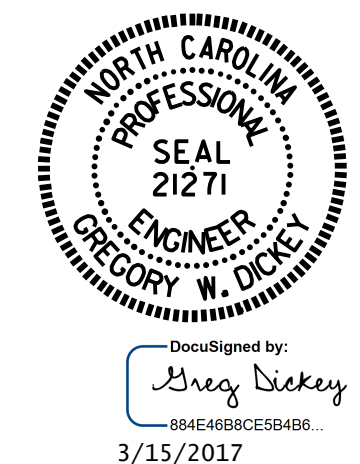
**STAGE II QUANTITIES**

CLASS A CONCRETE	
INLET EXTENSION BARREL @ 1.283 CY/FT	= 14.8 CY
INLET EXTENSION WING W2, HEADWALL, ETC.	= 7.8 CY
INLET EXTENSION EDGE BEAMS	= 1.2 CY
OUTLET EXTENSION BARREL @ 1.283 CY/FT	= 30.9 CY
OUTLET EXTENSION WING W3, HEADWALL, ETC.	= 12.0 CY
OUTLET EXTENSION EDGE BEAMS	= 1.2 CY
TOTAL	67.9 CY
REINFORCING STEEL	
INLET EXTENSION BARREL, ETC.	= 2,137 LBS.
OUTLET EXTENSION BARREL, ETC.	= 3,645 LBS.
INLET EXTENSION WING W2	= 363 LBS.
OUTLET EXTENSION WING W3	= 584 LBS.
TOTAL	6,729 LBS.
FOUNDATION CONDITIONING MATERIAL	
INLET EXTENSION	15 TONS
OUTLET EXTENSION	31 TONS
TOTAL	46 TONS
CULVERT EXCAVATION	
INLET EXTENSION	LUMP SUM
OUTLET EXTENSION	LUMP SUM
TOTAL	LUMP SUM

**SPLICE LENGTHS CHART**

BAR	SIZE	SPLICE LENGTH
A200	#4	1'-5"
A400	#4	1'-5"
B1	#4	1'-5"
B3	#4	1'-5"
C1	#4	1'-11"
'G'	#5	2'-2"
'H'	#4	1'-9"

PROJECT NO. U-3330  
NASH COUNTY  
 STATION: 113+48.00 -L-



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**DOUBLE 6 FT. x 7 FT.  
 CONCRETE BOX CULVERT  
 EXTENSIONS AND  
 66"Ø PIPE HEADWALLS**

DRAWN BY : A. K. PATEL      DATE : 2-7-17  
 CHECKED BY : B. N. BARODAWALA      DATE : 2-7-17  
 DESIGN ENGINEER OF RECORD: KRISHNA SEDAI      DATE : 2-7-17

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					
NO.	BY:	DATE:	NO.	BY:	DATE:
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