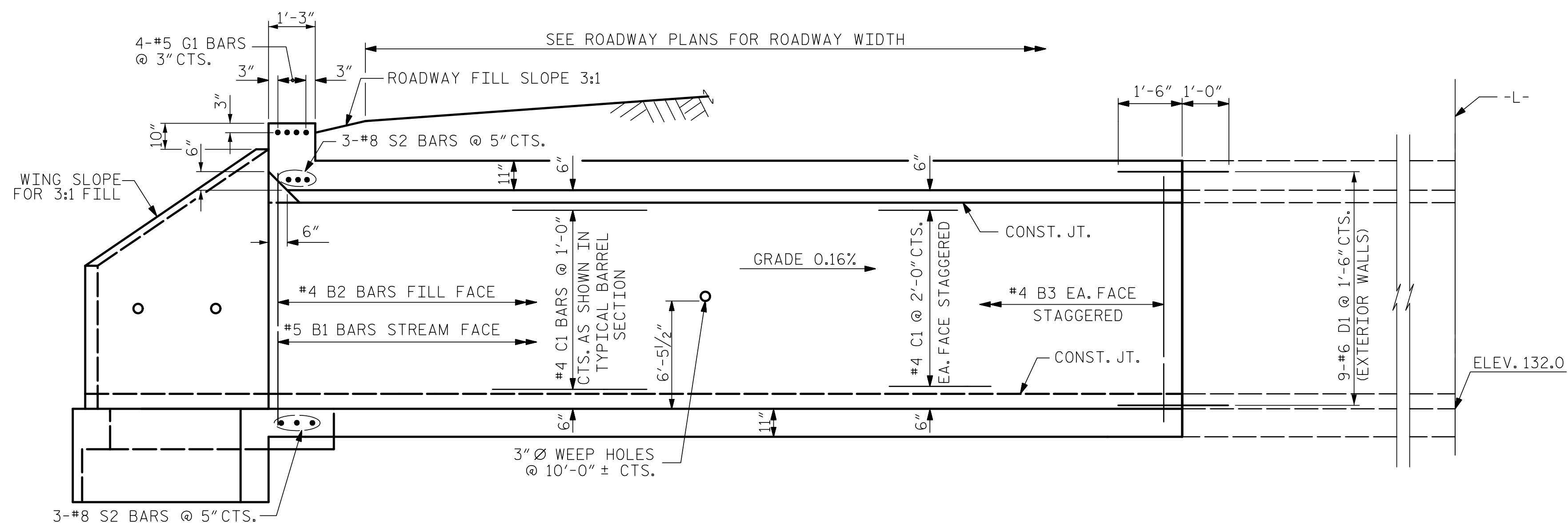


**RIGHT ANGLE SECTION OF BARREL**

THERE ARE 148 "C" BARS IN SECTION OF BARREL.



**EXTERIOR WALL**

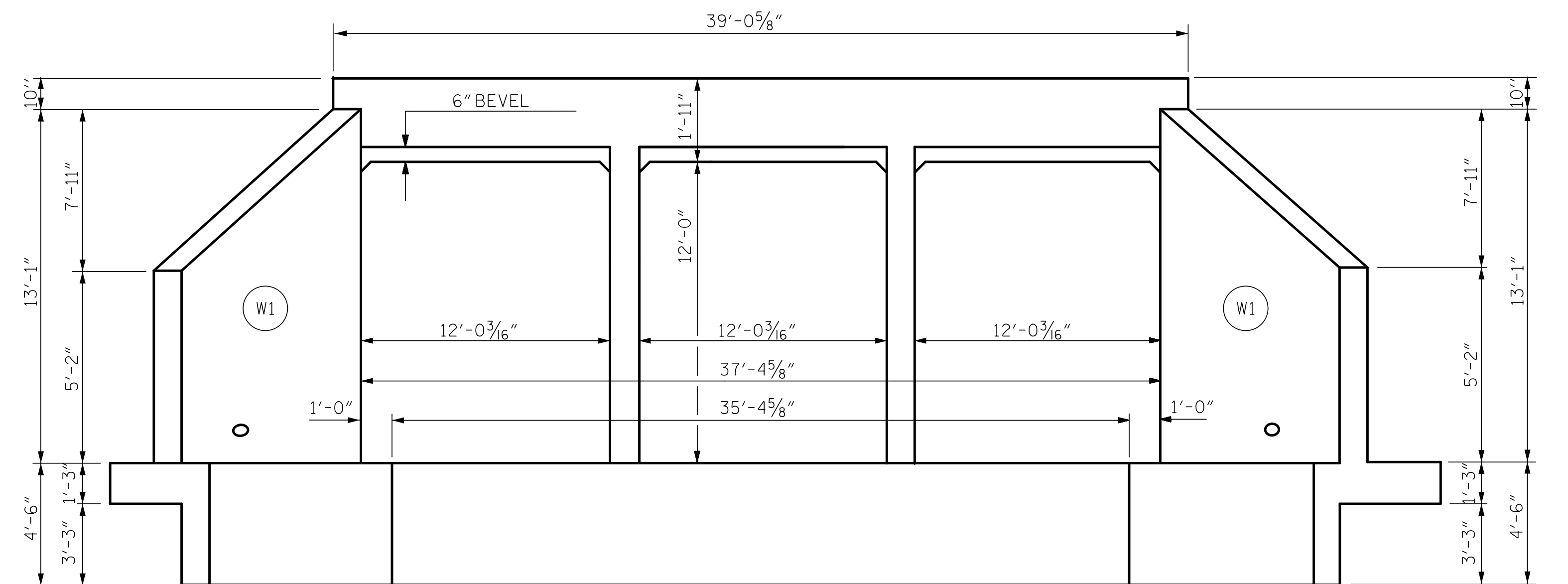
**INTERIOR WALL**

**STAGE III - CULVERT SECTION NORMAL TO ROADWAY**

DRAWN BY : ZCS DATE : 10/21  
 CHECKED BY : MGC DATE : 1/22  
 DESIGN ENGINEER OF RECORD: ZCS DATE : 1/22

STAGE III QUANTITIES			
CLASS A CONCRETE			
BARREL @	3.99	CY/FT	302.2 C.Y.
WINGS, ETC.			45.1 C.Y.
SILLS			1.3 C.Y.
TOTAL			348.6 C.Y.
REINFORCING STEEL			
BARREL & SILLS			44,787 LBS.
WINGS, ETC.			3,028 LBS.
TOTAL			47,815 LBS.
CULVERT EXCAVATION LUMP SUM			
FOUNDATION COND. MAT'L. 230 TONS			

STAGE III BAR SCHEDULE											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A100	112	#6	STR	38'-7"	6491	A1	227	#6	1	7'-1"	2415
A101	1	#6	STR	32'-0"	48	A2	227	#5	1	5'-10"	1381
A102	1	#6	STR	19'-3"	29	B1	152	#5	STR	13'-4"	2114
A103	1	#6	STR	6'-6"	10	B2	227	#4	STR	11'-4"	1719
A200	112	#5	STR	38'-7"	4507	B3	454	#4	STR	13'-4"	4044
A201	1	#5	STR	32'-0"	33	C1	296	#4	STR	39'-2"	7744
A202	1	#5	STR	19'-3"	20	D1	70	#6	STR	2'-6"	263
A203	1	#5	STR	6'-6"	7	D2	12	#6	STR	1'-6"	27
A300	112	#6	STR	38'-7"	6491	G1	4	#5	STR	38'-7"	161
A301	1	#6	STR	32'-0"	48	S2	6	#8	STR	38'-7"	618
A302	1	#6	STR	19'-3"	29						
A303	1	#6	STR	6'-6"	10						
A400	112	#6	STR	38'-7"	6491						
A401	1	#6	STR	32'-0"	48						
A402	1	#6	STR	19'-3"	29						
A403	1	#6	STR	6'-6"	10						
REINFORCING STEEL											44,787 LBS



**INLET END ELEVATION NORMAL TO SKEW**

BAR TYPE		
VERTICAL LEG	A1	A2
6" R.	3'-4"	2'-6"
2'-11 1/2"	9/2"	9/2"
2'-6 1/2"		
DIMENSIONS ARE OUT TO OUT		
SPlice LENGTHS CHART		
BAR	SIZE	SPlice LENGTH
"B"	#4	1'-10"
"B"	#5	2'-4"
C1	#4	1'-10"
A200	#5	2'-4"
A400	#6	2'-9"
S2	#8	3'-8"

PROJECT NO. I-5987A  
 ROBESON COUNTY  
 STATION: 310+73.00 -L-

SHEET 9 OF 14

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

TRIPLE 12 FT. X 12 FT.  
 CONCRETE BOX CULVERT  
 STAGE III

5/10/2022 | 10:02 AM EDT

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS  
 706 HILLSBOROUGH STREET  
 SUITE 200  
 RALEIGH, NC 27603  
 PH (919) 773-8887  
 CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C11-9
1			3			TOTAL SHEETS 14
2			4			