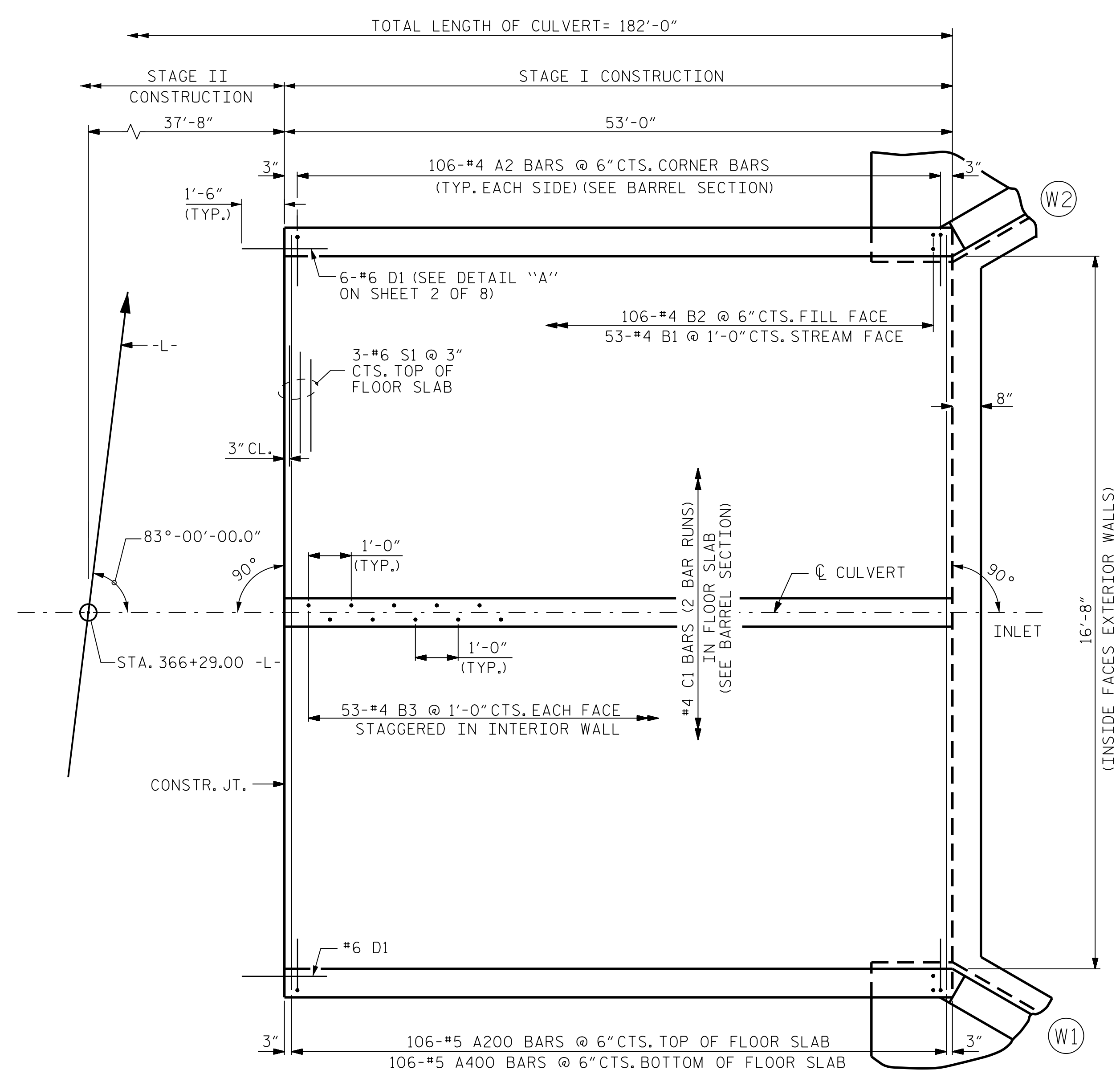
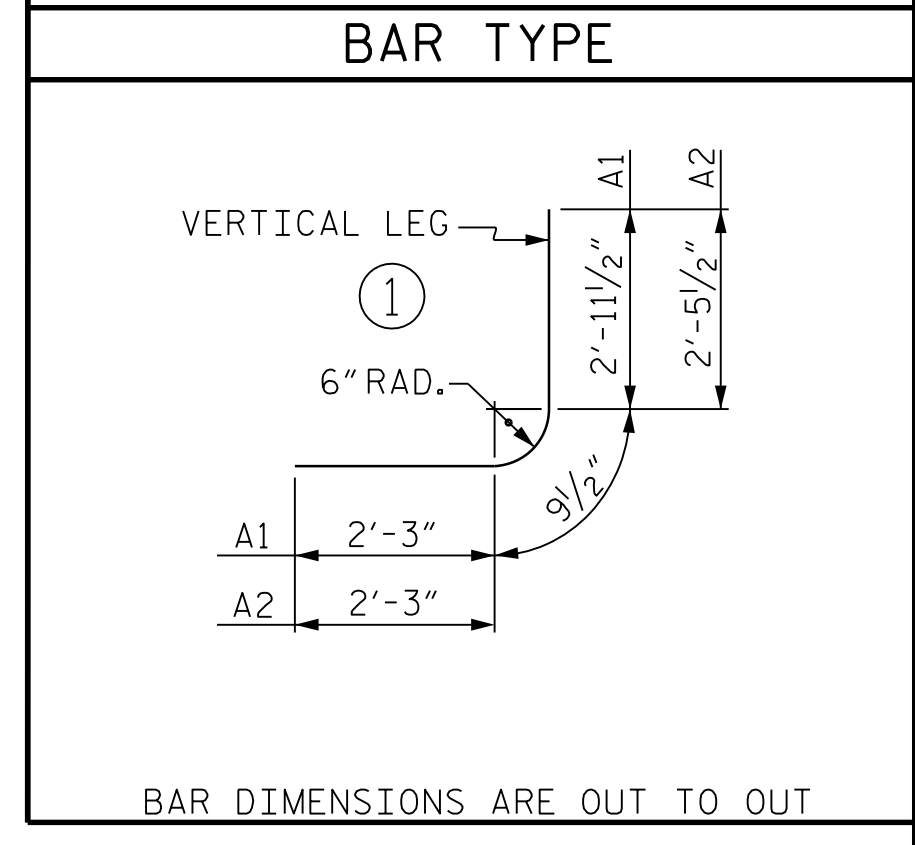


**STAGE I - PLAN OF ROOF SLAB**



**STAGE I - PLAN OF FLOOR SLAB**

REINFORCING BAR SCHEDULE					
STAGE I					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	212	#4	1	6'-0"	850
A2	212	#4	1	5'-6"	779
B1	106	#4	STR	10'-6"	743
B2	212	#4	STR	8'-4"	1180
B3	106	#4	STR	10'-6"	743
A100	106	#5	STR	17'-8"	1953
A200	106	#5	STR	17'-8"	1953
A300	106	#5	STR	17'-8"	1953
A400	106	#5	STR	17'-8"	1953
C1	150	#4	STR	28'-4"	2839
D1	36	#6	STR	3'-0"	162
D2	8	#6	STR	1'-6"	18
G1	4	#5	STR	17'-8"	74
S1	9	#6	STR	17'-8"	239
REINFORCING STEEL					LBS. 15,440



SPLICE LENGTHS CHART		
BAR	SIZE	SPLICE LENGTH
C1	#4	1'-10"

STRUCTURE QUANTITIES STAGE I	
FOUNDATION COND. MAT'L	82 TONS
CULVERT EXCAVATION	LUMP SUM
CLASS A CONCRETE	
BARREL @ 1.953 CY/FT	103.5 C.Y.
WINGS ETC.	21.2 C.Y.
SILLS	0.6 C.Y.
TOTAL	125.3 C.Y.
REINFORCING STEEL	
BARRELS & SILLS	15,440 LBS.
WINGS ETC.	1,308 LBS.
TOTAL	16,748 LBS.

PROJECT NO. I-5987A  
ROBESON COUNTY  
 STATION: 366+29.00 -L-  
 SHEET 3 OF 8

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 BARREL STANDARD  
**DOUBLE 8 FT. X 9 FT. CONCRETE BOX CULVERT**  
**STAGE I**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C12-3
1			3			TOTAL SHEETS 8
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**CDM Smith**  
 CDM SMITH  
 5400 Glenwood Avenue, Suite 400  
 Raleigh, NC 27612-3228  
 NC COA No. F-1255

DRAWN BY: JJR DATE: 9/21  
 CHECKED BY: THF DATE: 12/21  
 DESIGN ENGINEER: VDK DATE: 12/21

DWG. No.

**North Carolina Professional Engineer Seal 16301**  
 TING FANG  
 3/18/2022