

[illegible]

	CLEAR SPAN	CLEAR HEIGHT	QUANTITIES								CLEAR HEIGHT	CLEAR SPAN
			REINF. STEEL			CONCRETE						
			LBS. PER LINEAL FT. OF BARREL			CU.YDS. PER LINEAL FT. OF BARREL		WINGWALLS & PARAPETS				
			DES. NO. 1	DES. NO. 2	WINGWALLS & PARAPETS TOTAL LBS.	DES. NO. 1	DES. NO. 2	CU YD CONC.	Z			
DOUBLE	3'	2'-6"	79.8	79.8	185	.481	.481	7.92	1'-II"	2'-6"	3'	
		3'	80.9	80.9	212	.509	.509	8.73	1'-II"	3'		
	4'	2'-6"	92.2	92.2	191	.568	.568	8.56	1'-III"	2'-6"	4'	
		3'	93.2	93.2	217	.596	.596	9.37	1'-II"	3'		
	5'	4'	100.0	100.0	296	.778	.778	11.66	1'-II 1/2"	4'		
		2'-6"	104.8	99.1	196	.690	.761	9.24	1'-II 1/2"	2'-6"		
		3'	105.8	100.1	223	.718	.789	10.05	1'-II 1/2"	3'		
		4'	113.4	106.3	301	.944	.944	12.40	2'-0 1/2"	4'		
		5'	117.8	110.6	377	1.019	1.019	14.72	2'-0 1/2"	5'		
	6'	3'	120.8	122.8	228	.934	1.019	10.89	2'-0 1/2"	3'		
		4'	126.4	133.5	306	1.049	1.136	13.05	2'-0 1/2"	4'		
		5'	131.9	138.9	383	1.183	1.271	15.47	2'-0 1/2"	5'		
6'		136.3	143.2	488	1.266	1.354	18.17	2'-0 1/2"	6'			
3'	2'-6"	121.2	121.2	195	.688	.688	9.15	1'-II"	2'-6"	3'		
	3'	122.6	122.6	221	.725	.725	9.98	1'-II"	3'			
TRIPLE	4'	2'-6"	144.3	144.3	203	.818	.818	10.10	1'-III"	2'-6"	4'	
		3'	145.6	145.6	229	.855	.855	10.93	1'-III"	3'		
	5'	4'	155.4	155.4	308	1.102	1.102	13.37	1'-III 1/2"	4'		
		2'-6"	160.6	152.0	211	1.000	1.105	11.11	1'-III 1/2"	2'-6"		
		3'	162.0	153.4	237	1.037	1.142	11.95	1'-III 1/2"	3'		
		4'	174.3	162.3	316	1.350	1.350	14.46	2'-0 1/2"	4'		
		5'	180.0	168.1	392	1.449	1.449	16.83	2'-0 1/2"	5'		
	6'	3'	189.2	192.5	246	1.354	1.479	13.18	2'-0 1/2"	3'		
		4'	196.9	208.6	324	1.507	1.635	15.44	2'-0 1/2"	4'		
		5'	204.8	216.6	401	1.685	1.815	17.98	2'-0 1/2"	5'		
		6'	210.6	222.3	506	1.796	1.926	20.75	2'-0 1/2"	6'		

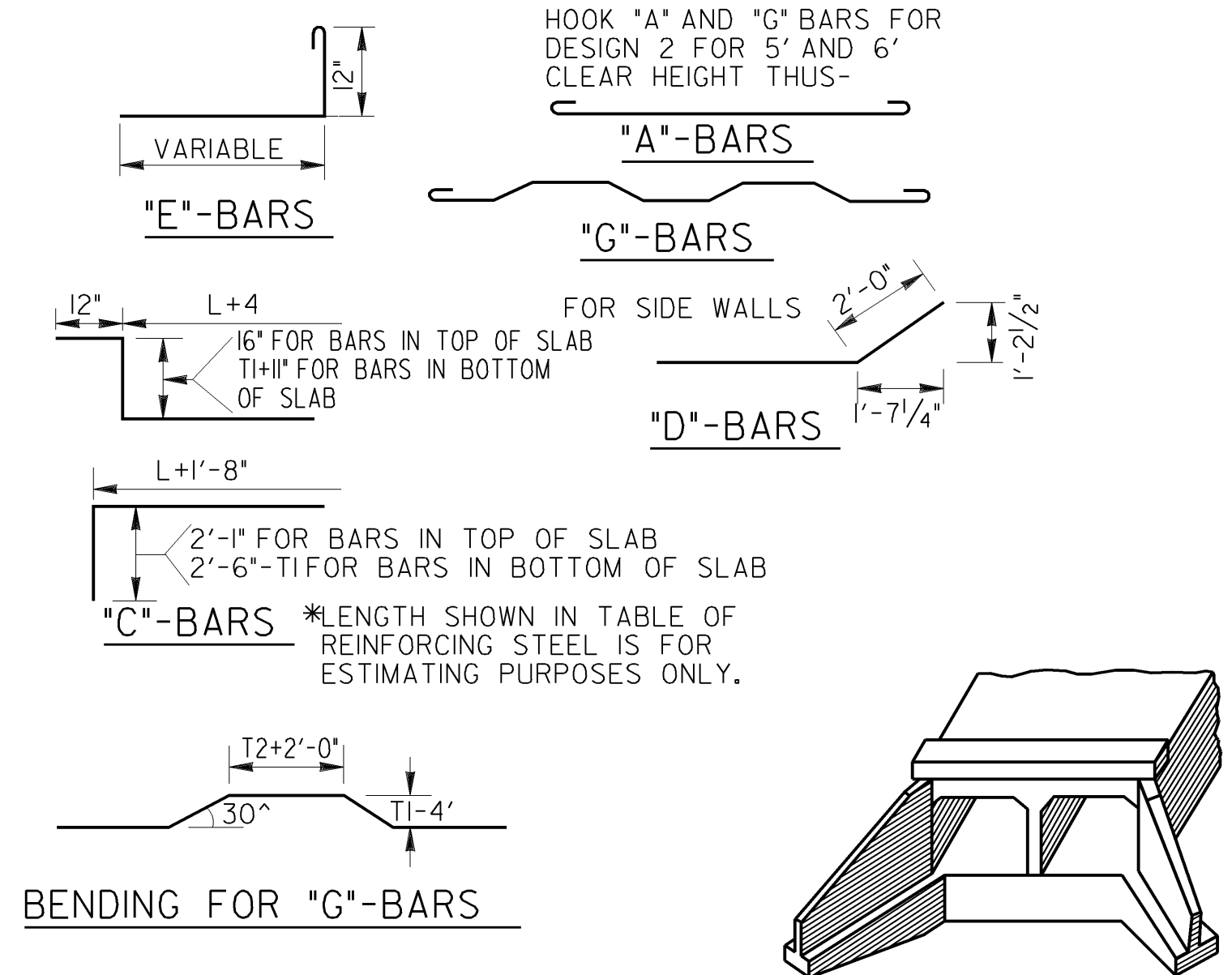
GENERAL NOTES

1. CHAMFER - CHAMFER ALL EXPOSED EDGES $\frac{3}{4}$ ".
2. APRON WALLS - APRON WALLS MAY BE OMITTED IF ENGINEER APPROVES. ENGINEER MAY ALSO REQUIRE BOTTOM SLAB TO EXTEND TO ENDS OF WINGS AND APRON PLACED AT THIS POINT.
3. QUANTITIES - QUANTITIES FOR STEEL SHOWN ON THIS SHEET COMPUTED CONSIDERING ALL A, B, C, D, G AND H BARS AS PART OF BARREL QUANTITIES. STEEL PER LINEAL FOOT S' AN AVERAGE VALUE FOR A CULVERT OF 40' LENGTH ALLOWING ONE LAP IN LONGITUDINAL BARS.
4. SIZE OF CULVERT - IN DESIGNATING SIZES OF CULVERTS STATE CLEAR SPAN FIRST. I.E. A 6' X 4' CULVERT HAS A 6' CLEAR SPAN AND A 4' CLEAR HEIGHT.
 $L =$ LENGTH OF CULVERT = DISTANCE BETWEEN BACKS OF PARAPETS.
 PAVEMENT.
5. COVER - CULVERT TO HAVE MINIMUM OF 1.0' BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.

2. BAR SUPPORTS - FOR CULVERT SIZES WHERE BARS "G" ARE NOT UTILIZED, BAR SUPPORTS ARE REQUIRED FOR POSITIONING OF SLAB BARS "H".

DESIGN DATA

LOADING-H2O S-16-44 AND/OR MILITARY
SPECIFICATIONS A.A.S.H.O. 1957, T-58



BOX CULVERT REQUIREMENTS:

MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF
BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.

MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK POINTS. LONGITUDINAL BARREL REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN 15 FEET FROM THE BARREL ENDS.

WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE JOINTS.

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