

TABLE OF QUANTITIES

REINFORCING STEEL

TYPE	L	CONCRETE		BARS A	BARS B	BARS E	BARS H	BARS U-1	BARS U-2	BARS V	BARS V-1	BARS V-2	BARS V-3	TYPE I	TYPE II										
		TYPE I	TYPE II																						
		Ft.	Cu. Yd.													Cu. Yd.	No.	Ln.*Ft.	No.	Ln.*Ft.	No.	Ln.*Ft.	No.	Ln.*Ft.	No.
DI-10G	3'	2.08	2.05	3	4'-0"	3	4'-0"	-	-	38	4'-0"	-	-	-	-	48	3'-4"	12	2'-6"	3	2'-4"	8	4'-5"	426	426
	4'	2.26	2.25	3	5'-0"	3	5'-0"	8	1'-4"	38	4'-0"	2	5'-2" to 5'-8"	2	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	4	2'-4"	8	4'-5"	456	451
	6'	2.65	2.63	3	7'-0"	3	7'-0"	8	3'-4"	38	4'-0"	4	5'-2" to 5'-8"	4	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	5	2'-4"	8	4'-5"	499	490
	8'	3.04	3.02	3	9'-0"	3	9'-0"	8	5'-4"	38	4'-0"	6	5'-2" to 5'-8"	6	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	7	2'-4"	8	4'-5"	544	531
DI-10H	10'	3.43	3.40	3	11'-0"	3	11'-0"	8	7'-4"	38	4'-0"	8	5'-2" to 5'-8"	8	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	8	2'-4"	8	4'-5"	588	571
	12'	3.82	3.78	3	13'-0"	3	13'-0"	8	9'-4"	38	4'-0"	10	5'-2" to 5'-8"	10	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	9	2'-4"	8	4'-5"	631	610
	14'	4.21	4.16	3	15'-0"	3	15'-0"	8	11'-4"	38	4'-0"	12	5'-2" to 5'-8"	12	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	11	2'-4"	8	4'-5"	677	650
	16'	4.60	4.54	3	17'-0"	3	17'-0"	8	13'-4"	38	4'-0"	14	5'-2" to 5'-8"	14	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	12	2'-4"	8	4'-5"	720	690
	18'	5.00	4.94	3	19'-0"	3	19'-0"	8	15'-4"	38	4'-0"	16	5'-2" to 5'-8"	16	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	13	2'-4"	8	4'-5"	764	729
	20'	5.39	5.32	3	21'-0"	3	21'-0"	8	17'-4"	38	4'-0"	18	5'-2" to 5'-8"	18	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	15	2'-4"	8	4'-5"	809	770
	6'	2.65	2.63	3	7'-0"	3	7'-0"	16	2'-0"	38	4'-0"	6	5'-2" to 5'-8"	6	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	5	2'-4"	8	4'-5"	514	501
	8'	3.04	3.02	3	9'-0"	3	9'-0"	16	3'-0"	38	4'-0"	8	5'-2" to 5'-8"	8	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	7	2'-4"	8	4'-5"	559	542
DI-10 I	10'	3.43	3.40	3	11'-0"	3	11'-0"	16	4'-0"	38	4'-0"	10	5'-2" to 5'-8"	10	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	8	2'-4"	8	4'-5"	603	581
	12'	3.82	3.78	3	13'-0"	3	13'-0"	16	5'-0"	38	4'-0"	12	5'-2" to 5'-8"	12	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	9	2'-4"	8	4'-5"	646	620
	14'	4.21	4.16	3	15'-0"	3	15'-0"	16	6'-0"	38	4'-0"	14	5'-2" to 5'-8"	14	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	11	2'-4"	8	4'-5"	691	661
	16'	4.60	4.54	3	17'-0"	3	17'-0"	16	7'-0"	38	4'-0"	16	5'-2" to 5'-8"	16	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	12	2'-4"	8	4'-5"	735	700
	18'	5.00	4.94	3	19'-0"	3	19'-0"	16	8'-0"	38	4'-0"	18	5'-2" to 5'-8"	18	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	13	2'-4"	8	4'-5"	778	739
	20'	5.39	5.32	3	21'-0"	3	21'-0"	16	9'-0"	38	4'-0"	20	5'-2" to 5'-8"	20	3'-1" to 3'-7"	48	3'-4"	12	2'-6"	15	2'-4"	8	4'-5"	824	780

NOTES

1. DEPTH OF INLET (H) TO BE SHOWN ON PLANS.
2. THE "H" DIMENSION SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF THE OUTFALL PIPE TO THE TOP OF THE STRUCTURE. PLAN "H" DIMENSIONS ARE APPROXIMATE ONLY FOR ESTIMATING PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.
3. WHEN SPECIFIED ON THE PLANS THE INVERT IS TO BE SHAPED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR STRUCTURE.
4. IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT STANDING OR PONDING OF WATER IN THE STRUCTURE. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
5. STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER. FOR DETAILS SEE STANDARD ST-1.
6. THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.
7. 3" DIAMETER WEEP HOLE TO BE LOCATED TO DRAIN SUBBASE MATERIAL. WEEP HOLE WITH 12"X12" PLASTIC HARDWARE CLOTH 1/4" MESH OR GALVANIZED STEEL WIRE, MINIMUM WIRE DIAMETER 0.03", NUMBER 4 MESH HARDWARE CLOTH ANCHORED FIRMLY TO THE OUTSIDE OF THE STRUCTURE.
8. ALL REINFORCING STEEL SHALL HAVE A MIN. COVER OF 2".
9. ALL REINFORCING STEEL TO BE CUT CLEAR OF ALL OPENINGS BY 2".
10. CAST-IN PLACE CONCRETE IS TO BE CLASS A3 (3000 PSI). PRECAST CONCRETE IS TO BE 4000 PSI.
11. LENGTH OF SLOT (L) WILL, IN EVERY CASE, BE SHOWN ON PLANS.
12. CONCRETE QUANTITIES SHOWN ARE FOR DEPTH (H) OF 3'-0" WITHOUT PIPES. THE AMOUNT DISPLACED BY PIPES MUST BE DEDUCTED TO OBTAIN TRUE QUANTITIES. FOR INLETS OF DIFFERENT DEPTHS ADD OR SUBTRACT 0.36 CUBIC YARDS OF CONCRETE FOR EACH FOOT OF DEPTH. AND 84 LBS. OF REINFORCING STEEL.
13. LENGTH OF ANGLE IRON AS SHOWN ON SHEET 1 OF 2 IS TO BE L +16" AT 4.10 LBS./FT..
14. * DENOTES LENGTH OF ONE (1) BAR.
15. GRATE TO BE INSTALLED SO SLOTS WILL DIRECT WATER TOWARD THE INLET THROAT. GRATE MUST BE REVERSIBLE (RIGHT HAND GRATE IS SHOWN).
16. PROVIDE SAFETY SLABS WHEN SPECIFIED ON PLANS.
17. FOR DETAILS AND DIMENSIONS NOT SHOWN FOR MEDIAN BARRIER SEE STANDARD MB-7D.
18. QUANTITIES INCLUDE MB-7D.



ROAD AND BRIDGE STANDARDS

CONCRETE MEDIAN BARRIER DROP INLET (WITH MB-7D)

12" - 36" PIPE: DEPTH (H)-20'-0" MAX.

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE

233
302

SHEET 2 OF 2

REVISION DATE

104.27