

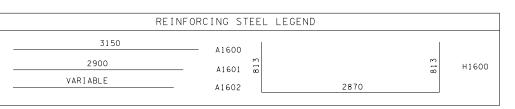
MANHOLE MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 8.5 m. WHEN DEPTH REQUIREMENTS EXCEED THIS DEPTH THE CONTRACTOR IS TO USE OTHER VERSIONS OF THE NO. 3 MANHOLE.

■ REV. 5-30-02: MODIFIED REINFORCING STEEL.

REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE (B)

■ REV. 9-11-02: CHANGED REINFORCING STEEL IN BASE SECTION.



MANHOLE DIMENSIONS					
INSIDE WIDTH OF MANHOLE (mm)	WALL THICKNESS W (mm)	OUTSIDE WIDTH OF MANHOLE (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - STR. (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - 90° (mm)	DIMENSION C (mm)
2743	254	3251	1950	1800	114

CUT-0	CUT-OUT HOLES FOR INLET & OUTLET PIPES					
INSIDE DIAMETER	DIAMETER OF CUT-OUT HOLES F & G - (MILLIMETERS)					
(X) OF PIPE (mm)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE			
450	660	535	610			
600	815	685	785			
750	1015	840	990			
900	1195	1015	1145			
1050	1370	1170	1270			
1200	1550	1320	1420			
1350	1730	1475				
1500	1905	1625				
1650	2085	1780				
1800	2260	1930				
1950	2440	2085				

50 CLEAR

 $_{0}^{N}$

50 CLEAR

1320	2440	2085	
CUT- OUT HOLES FO	OR PRECAST STRUCTI	URES TO BE CORED	OR FORMED IN
ORDER TO OBTAIN A	SMOOTH EDGED HOL	LE. SCORED OR ET	CHED HOLES WITH
REINFORCING STEEL	. LEFT UNCUT WILL	NOT BE PERMITTED	

MANHOLE MINIMUM DEPTH TABLE				
INSIDE DIAMETER	MINIMUM DEPTH - (m)			
(X) OF PIPE (mm)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE	
450	1.51	1.44	1.48	
600	1.66	1.59	1.65	
750	1.83	1.75	1.82	
900	2.00	1.91	1.98	
1050	2.16	2.06	2.12	
1200	2.33	2.22	2.27	
1350	2.50	2.37		
1500	2.66	2.52		
1650	2.83	2.67		
1800	2.99	2.83		
1950	3.15	2.98		

- 1 DEPTH MEASUREMENT MADE FROM TOP OF THE MANHOLE COVER TO OUTLET FLOW ELEVATION BASED ON INLET AND OUTLET PIPES BEING THE SAME DIAMETER, IF OUTLET PIPE IS GREATER ADJUSTMENT IN DEPTHS MUST BE MADE TO ACCOMMODATE THIS
- ② TO DETERMINE FLOOR OF MANHOLE ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE SAME SIZE, ADD PIPE WALL THICKNESS PLUS 40 mm TO THE ABOVE MINIMUM DEPTHS.

GENERAL NOTES

- (A) CAST-IN-PLACE CONCRETE MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- B THE CONTRACTOR MAY WITH PERMISSION FROM THE ENGINEER SUBSTITUTE PRECAST CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM M913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.

CONCRETE: f'c = 28 MPa AT 28 DAYS REINFORCING STEEL: ASTM A615M, f_Y = 415 MPa

ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

- © PRECAST MANHOLE UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED MANHOLE UNITS AT HIS OWN EXPENSE.
- D ADDITIONAL REINFORCING STEEL NECESSARY ABOVE THE CORED OR FORMED CUT-OUT HOLES TO MAINTAIN THE INTEGRITY OF THE STRUCTURE DURING HANDLING AND PLACEMENT SHALL BE THE RESPONSIBILITY OF THE FABRICATOR
- © APPROPRIATE SIZING AND LOCATION OF LIFTING INSERTS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR TO ASSURE BALANCED HANDLING DURING INSTALLATION OF THE MANHOLE.
- THE CONTRACTOR IS TO PATCH ALL LIFTING INSERT HOLES AND PLACE A MINIMUM OF 25 mm OF COVER OVER THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- (G) INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- $\stackrel{\textstyle \leftarrow}{\mathbb{H}}$ SEE STANDARD DRAWING DM-MH-4 FOR DETAILS REGARDING CAST IRON COVERS AND FRAMES, AND DETAILS FOR VARIOUS STEPS.
- PAYMENT FOR MANHOLE WILL BE MADE UNDER ITEM NUMBERS 611M01.02 MANHOLES, > 1m-2m DEPTH THROUGH 611M01.09 MANHOLE, > 8m-9m DEPTH PER EACH.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STANDARD 2743 mm X 2743 mm SQUARE CONCRETE NO. 3 MANHOLE

DM-MH-7 9-5-98