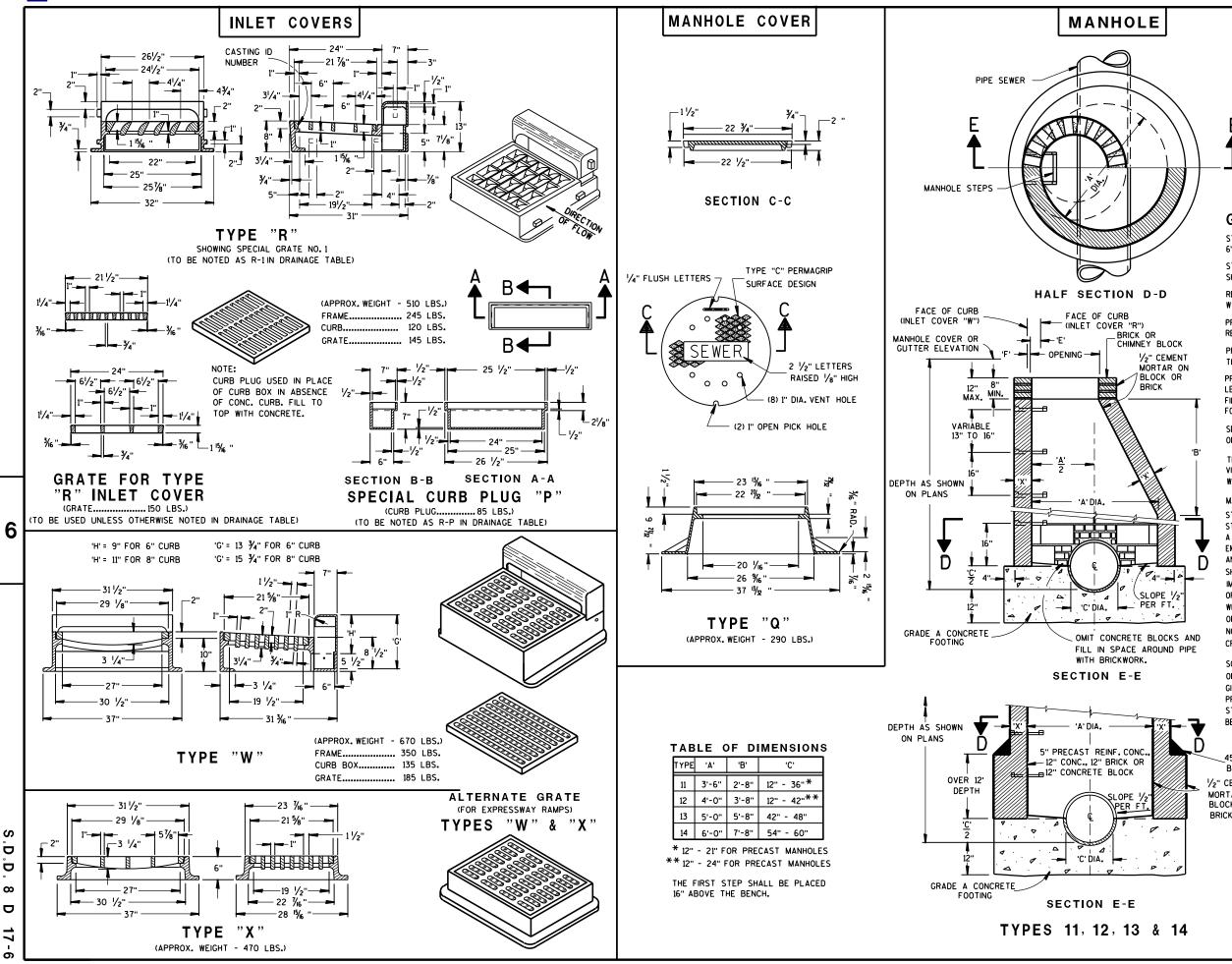
# SDD 8D17 Manholes, Manhole and Inlet Covers



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TABLE OF OPENING DIMENSIONS

COVER				
TYPE	DESCRIPTION	OPENING	Έ'	'F'
"0"	ROUND	2'-2" DIA.	-	—
<b>w</b>	CURB BOX	1'-8" X 2'-6"	Ι	1"
"X"	INLET	1'-10" X 2'-6"	Ι	Ι
"R"	CURB BOX	2'-0" X 2'-1"	4"	Ι

#### **GENERAL NOTES**

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL, THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT.LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PRO-VIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

#### MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS. WITH A MIN-IMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 3/6 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

45° MORTAR BEVEL 1/2" CEMENT MORTAR ON BLOCK OR BRICK

MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 4/12/201 DATE FHWA

/S/ Jerry H. Zoga ROADSIDE STANDARDS DEVELOPMENT ENGINEER

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## Standard Detail Drawing 8D17

#### Manholes, Manhole and Inlet Covers

#### **References:**

#### FDM 13-25-30

Neenah Foundry Company Catalog "Construction Castings"

#### Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
611.0225	Manholes Type 11	EACH
611.0230	Manholes Type 12	EACH
611.0235	Manholes Type 13	EACH
611.0240	Manholes Type 14	EACH
611.0555	Manhole Covers Type Q	EACH
611.0657	Inlet Covers Type W	EACH
611.0663	Inlet Covers Type X	EACH
601.0648	Inlet Covers Type R	

#### Standardized Special Provisions associated with this drawing:

STSP NUMBER	<u>TITLE</u>
NONE	

#### Other SDDs associated with this drawing:

NONE

#### **Design Notes:**

This SDD replaces SDD 8M3-5. It is for use in Milwaukee County only. This includes the City of Milwaukee and other communities in Milwaukee County.

When special grate No. 1 is needed for Type R Inlet Covers, bid as Type R but show as R-1 in drainage table. Special curb plug "P" should be shown as R-P in drainage table, but is bid as Type R.

### **Contact Person:**

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