

ACCEPTABLE CASTINGS & RELATED ITEMS	NEENAH FOUNDRY COMPANY NUMBER	EAST JORDAN IRON WORKS, INC. NUMBER
MANHOLE, 9" HIGH FRAME	R-1642-B	1048Z
MANHOLE, 5" HIGH FRAME (REVERSIBLE FRAME)	R-1642-A	
MANHOLE, 4" HIGH FRAME		1046Z
MANHOLE COVER, SOLID	R-1642 PLATEN LID "CITY OF AKRON, SEWER"	1040A LID "CITY OF AKRON, SEWER"
MANHOLE COVER, SOLID, WITH TYPE K LOCK	R-1642 LID, WITH TYPE K LOCK "CITY OF AKRON, SEWER"	
MANHOLE COVER, SOLID, WITH CAM LOCK	R-1642 LID, WITH "G" CAM LOCK "CITY OF AKRON, SEWER"	1040AGS CAM COVER "CITY OF AKRON, SEWER"
MANHOLE COVER, ALTERNATE, SLOTTED GRATE	R-2370 GRATE	1040M1, 1040M2, 1040M3
MANHOLE COVER, ALTERNATE, SLOTTED GRATE, DOME		1040N
MANHOLE COVER, ALTERNATE, SLOTTED GRATE, BEEHIVE	2560-0015 BEEHIVE	1040-02
MANHOLE ADJUSTING RING (TO BE USED ONLY AS DIRECTED BY THE ENGINEER)	1642 SIZES (1 1/2", 2", 2 1/2" & 3")	1040H 3", 1040H 2"
MANHOLE STEP (NEW)	R-3357	
MANHOLE STEP (REPLACEMENT)	R-3514-F	
NO. 2 INLET FRAME & GRATE	R-3357	5385
NO. 2R INLET FRAME & GRATE	R-3514-F	7390
NO. 3 INLET FRAME & COVER, W/6"x18" CURB	R-3326	7266
NO. 3 INLET FRAME & COVER, W/COMB. CURB	R-3326-A	7266
NO. 3 INLET T-PLATE	R-3326-007	7265J
NO. 5 INLET, FRAME, CURB CASTING, GRATE "V"	R-3289-HV, GRATE TYPE V	7350, GRATE TYPE M3
NO. 5 INLET, FRAME, CURB CASTING, DIAGONAL GRATE	R-3289-HV, GRATE TYPE R	7350, GRATE TYPE M2
NO. 5 INLET (DOUBLE), FRAME, CURB CASTING, GRATE "V" (2)	R-3288-HV, GRATE TYPE V	7358, GRATE TYPE M3
NO. 5 INLET (DOUBLE), FRAME, CURB CASTING, DIAGONAL GRATE (2)	R-3288-HV, GRATE TYPE R	7358, GRATE TYPE M2
MONUMENT BOX, FRAME & COVER	R-1973-A	1574 "HAS RISERS AVAILABLE"
HEAVY DUTY TRENCH FRAME & GRATE	R-4990, GRATE TYPE A,C,P	6900 GRATE TYPE M
HEAVY DUTY TRENCH FRAME & COVER (SOLID)	R-4990, GRATE TYPE D,E	6900 GRATE TYPE A

BEARING PARTS OF FRAMES AND COVERS SHALL BE MACHINED TO PROVIDE A FIRM AND EVEN SEAT FOR ANY POSITION OF THE COVER.

CASTINGS SHALL NOT VARY MORE THAN 1/16" PER FOOT IN ANY DIMENSION OR MORE THAN 5% IN WEIGHT FROM THOSE CALLED FOR BY THE MANUFACTURER AND BE FREE OF ALL DEFECTS.

ALL CASTINGS SHALL BE MARKED TO SHOW THE MANUFACTURER'S NAME, PART NUMBER, AND CAST DATE IN CAST-ON LETTERS/NUMBERS.

STEP TREADS SHALL HAVE SHARP WELL DEFINED CHECKS AND ALL CORNERS SHALL BE ROUNDED.

MANHOLE STEPS FOR PRECAST MANHOLES SHALL MEET OR EXCEED ASTM C-478 AND SHALL BE POLYPROPYLENE MEETING THE REQUIREMENTS OF 711.31.

SOLID MANHOLE COVERS SHALL BE USED FOR SANITARY AND COMBINED SEWERS.

SOLID MANHOLE COVERS SHALL BE USED FOR STORM SEWERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ALL CASTINGS, COVERS, GRATES AND RELATED APPURTENANCES MUST MEET ASHTO M-306.

ALTERNATE CASTINGS, USE ONLY AS DIRECTED BY THE ENGINEER, NEENAH FOUNDRY R-1642-LM, LIFTMATE FRAME AND COVER.

MANHOLE STEPS BY M.A. INDUSTRIES, INC.  
PSI-PF-DF 004-501-DF OR APPROVED EQUAL.

MANHOLE IDENTIFICATION				
MANHOLE			SEWER TYPE	PIPE DIAMETER
DESIGNATION	DIAMETER	MATERIAL		
MH-1A	48"	BRICK	STORM	12" - 18"
MH-1B	60"			21" - 27"
MH-1C	72"			30" - 36"
MH-2A	48"	PRECAST	SANITARY & STORM	8" - 18"
MH-2B	60"			21" - 27"
MH-2C	72"			30" - 36"
MH-3A	48"	CONCENTRIC PIPE TEE	SANITARY & STORM	42"
MH-3B	48"			48"
MH-3C	48"			54"
MH-4A	48"	ECCENTRIC PIPE TEE	SANITARY & STORM	60"
MH-4B	48"			66"
MH-4C	48"			72"
MH-4D	48"			78"
MH-4E	48"			84"
MH-4F	48"			90"
MH-4G	48"	96"		
MH-5A	48"	CAST-IN-PLACE BASE SECTION PRECAST RISER	SANITARY & STORM	8" - 30"
MH-5B	60"			33" - 45"
MH-5C	48"			48" - 96"

DO NOT SCALE - USE DIMENSIONS ONLY

CITY OF AKRON BUREAU OF ENGINEERING	CONSTRUCTION STANDARD DWG. No. <b>MH-8</b>
<i>Kenneth F. Kestner</i> 4/20/10 MANAGER, DESIGN DIVISION	SEWER RELATED ITEMS
<i>James P. Weln</i> 4/20/2010 MANAGER, CONSTRUCTION DIVISION	
<i>RJCEH</i> 4-20-10 CITY ENGINEER	AUTOCAD DRAWING - STD_MH-8.DWG February 28, 2002 REVISIONS: APRIL 4, 2008 DECEMBER 18, 2009 APRIL 20, 2010