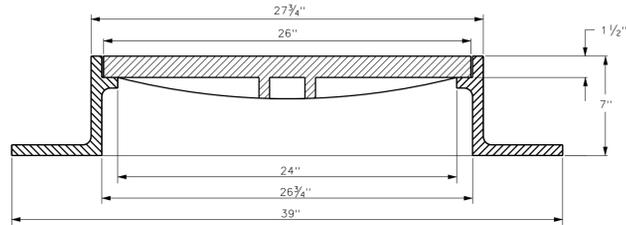
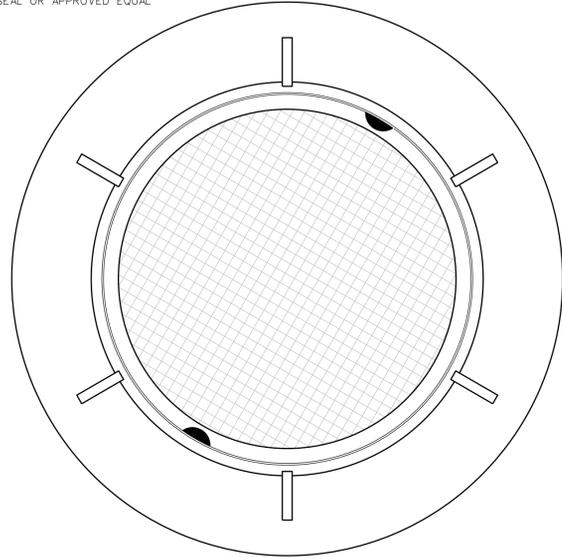


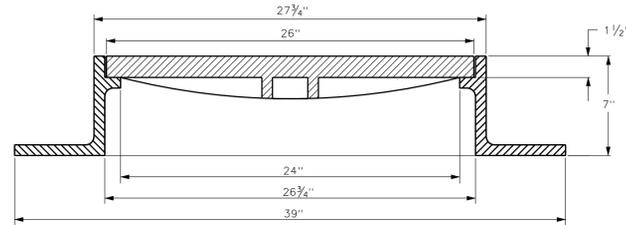
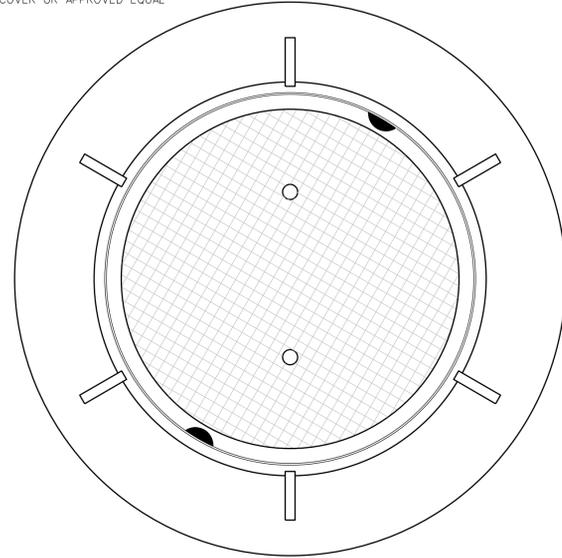
EJ CO. \*1040 TYPE "A" HEAVY DUTY  
BOLT DOWN SOLID COVER WITH WATER TITE  
GASKET SEAL OR APPROVED EQUAL



FRAME & COVER - MINIMUM WEIGHT - 400 LBS.  
(ALL DIMENSIONS ARE EJ CO. STANDARD)

**STANDARD SANITARY MANHOLE FRAME & COVER**

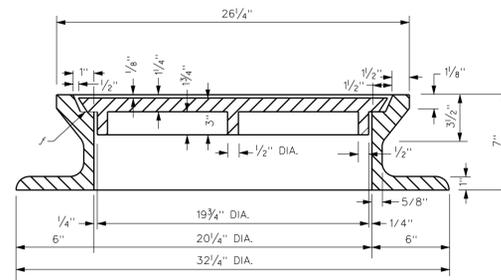
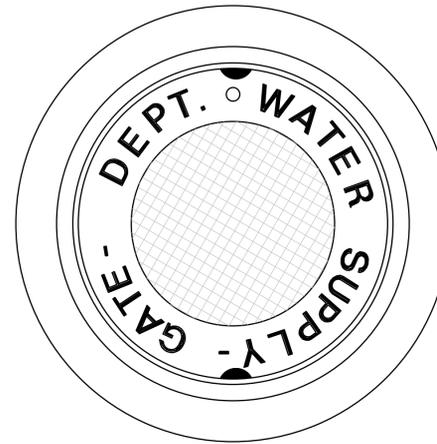
EJ CO. \*1040 TYPE "C" HEAVY DUTY  
VENTED COVER OR APPROVED EQUAL



FRAME & COVER - MINIMUM WEIGHT - 400 LBS.  
(ALL DIMENSIONS ARE EJ CO. STANDARD)

**STANDARD STORM MANHOLE FRAME & COVER**

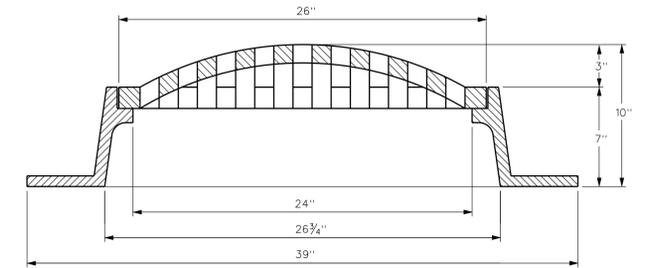
EJ CO. 1010 OR NEENAH  
1722 FRAME, WITH  
TYPE COVER SHOWN



NOTE: GATEWELL FRAME & COVER SHALL BE MADE  
OF CAST IRON (A.S.T.M. A - 48 CLASS 30)  
AS DETAILED HERE & D.W.S.D. DETAIL SHEET  
NO. A - 120 - 234  
WEIGHT (FRAME & COVER)-----410 LBS. MIN.

**STANDARD GATE WELL FRAME & COVER**

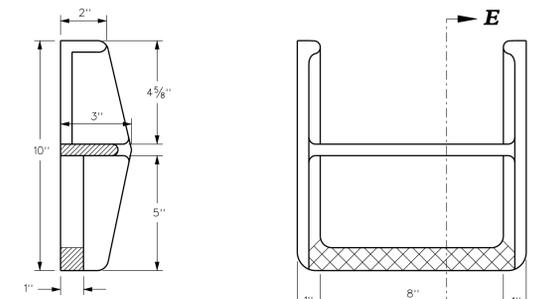
EJ CO. \*1040 FRAME WITH  
TYPE "N" COVER OR APPROVED EQUAL



FRAME & GRATE - MINIMUM WEIGHT - 400 LBS.  
(ALL DIMENSIONS ARE E.J.I.W. STANDARD)

**STANDARD OVAL (TYPE "N") GRATE & FRAME  
FOR CATCH BASINS & INLETS  
IN UNPAVED AREAS**

EJ CO. \*8500  
NEENAH \*R-1980-E  
OR EQUAL

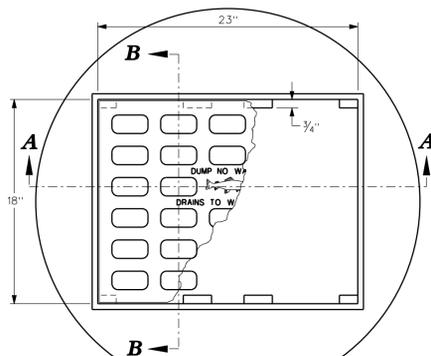


SECTION E-E

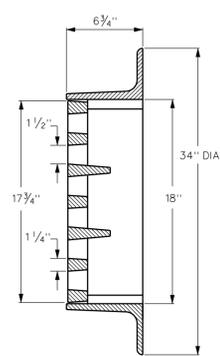
PLAN

**STANDARD MANHOLE STEP**

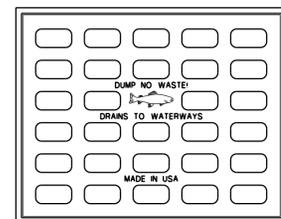
EJ CO. \*5080Z TYPE M1 FLAT GRATE  
NEENAH \*R-3448-C OR APPROVED EQUAL  
FRAME & COVER - MINIMUM WEIGHT - 285 LBS.



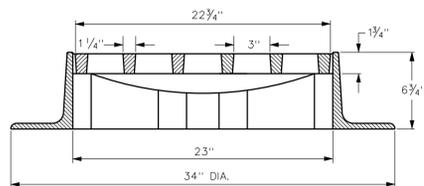
PLAN OF FRAME



SECTION B-B



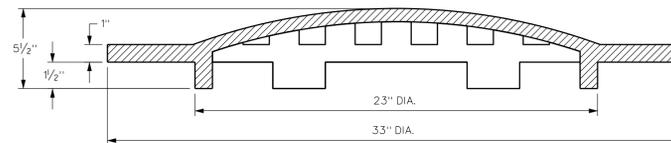
VIEW OF COVER



SECTION A-A

**STANDARD CATCH BASIN FRAME & GRATE**

EJ CO. \*6527  
NEENAH \*R-4340-B  
OR EQUAL



GRATE - MINIMUM WEIGHT - 200 LBS.

THIS GRATE SHALL BE USED ONLY ON  
CATCH BASINS FOR REAR YARD DRAINAGE  
EXCEPT WHEN OTHERWISE SHOWN ON  
CONSTRUCTION DRAWINGS

**STANDARD BEEHIVE GRATE - TYPE "R.Y."**

**GENERAL NOTES - CASTINGS:**

1. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF THE A.S.T.M. DESIGNATION: A-48 AND SHALL HAVE STRENGTH AS PROVIDED FOR CLASS NO. 30 GREY IRON CASTINGS.
2. ALL CASTINGS SHALL BE CLEANED BY SANDBLASTING.
3. THE SEATING FACE OF THE LID OF MANHOLE COVERS & CATCH BASIN GRATES, AND THE SEATS ON THEIR RESPECTIVE FRAMES SHALL BE MACHINE FINISHED OR EQUIVALENT, SO THE LID OR GRATE SHALL SIT EVEN ON ITS SEAT AT ALL POINTS WITHOUT ROCKING OR TILTING.

12/11	R.M.A.	UPDATED COMPANY NAME 'EAST JORDAN'
12/06	R.M.A.	UPDATED (T.S.S.)
4/99	D.D.Z.	REDRAWN (R.T.D.)
DATE	BY	CHANGE

**DIVISION OF ENGINEERING**  
CITY OF WARREN, MICHIGAN

**CASTING DETAILS**