

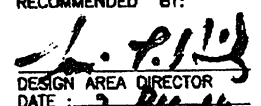
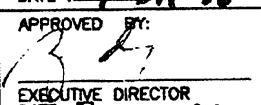
APPROVED LIST OF MANUFACTURERS AND PRODUCTS

| M A N U F A C T U R E R | | | | |
|-------------------------|--|---|---|--|
| | NEENAH FOUNDRY COMPANY P.O. BOX 729, NEENAH, WI 54957 FAX (920) 729-3661 | U.S. FOUNDRY & MANUFACTURING CORP. 8351 N.W. 93 STREET, MEDLEY, FLORIDA 33166-2096 FAX (305) 884-3253 | EAST JORDAN IRON WORKS, INC. P.O. BOX 510, MIDDLETON, DELAWARE 19709-051 FAX (302) 378-1109 | ANDREWS METAL PRODUCTS 745 ANDREWS AVE. YOUNGSTOWN, OH. 44505 1-800-837-3901 FAX (330) 744-1044 |
| | CATALOG "R", 11th EDITION | CATALOG OF CONSTRUCTION CASTINGS AND STEEL GRATES, 4th EDITION | ATTACHMENTS TO EAST JORDAN LETTER OF SEPTEMBER 2, 1998 ON FILE AT AUTHORITY EXECUTIVE DIRECTOR OFFICE | |
| STANDARD DRAWING | PRODUCT OR CATALOG NUMBER | PRODUCT OR CATALOG NUMBER | PRODUCT OR CATALOG NUMBER | PRODUCT OR CATALOG NUMBER |
| DR-2 | NONE | NONE | NONE | NONE |
| DR-3 | R-5900-F | NONE | NONE | NONE |
| DR-4 | NONE | NONE | NONE | NONE |
| DR-5 | R-1878-A3L, R-1878-A5L, R-1878-A9L, R-1878-A10L | 1609-HA, 1617-HA, 665-AC, OR 672-AE | 703010, 703062, 703064 & 703055 | NONE |
| DR-6 | R-1982-W, R-3067 | 5130-6431 | 703010, 703062, 703064 & 703055 | NONE |
| DR-7 | R-1982-W, R-3293 | 5181-6428 | 703010, 703062, 703064 & 703055 | NONE |
| DR-8 | R-1982-W, R-3293 | 5130-6428 | 703010, 703062, 703064 & 703055 | NONE |
| DR-9 | R-1982-W, R-3067 | 5130-6431 | 703010, 703062, 703064 & 703055 | NONE |
| DR-10 | R-1982-W, R-5900-F, R-3317-R, R-3317-L | 5176-HO, MA | NONE | NONE |
| DR-11 | R-1982-W, R-5900-F, R-3317-R, R-3317-L | 5176-HO, MA | NONE | NONE |
| DR-12 | R-1982-W, R-5900-F | 5176-HO, MA | NONE | NONE |
| DR-13 | R-1982-W, R-5900-F | 5176-HO, MA | NONE | NONE |
| DR-14 | R-1982-W, R-4840, R-1885-P1 | 4122-6172 | V-5760 | NONE |
| DR-15 | R-1982-W, R-4840, R-1885-P1 | 4122-6172 | V-5760 | NONE |
| DR-16 | R-1982-W, R-4840, R-1885-P1 | 4122-6172 | V-5760 | NONE |
| DR-17 | R-4996-A1, R-4996-A2 (SEE NOTE 7) | 6515-6100 | NONE | NONE |
| DR-18 | NONE | NONE | V-5760 | NONE |
| DR-19 | NONE | NONE | NONE | NONE |
| DR-20 | NONE | NONE | NONE | NONE |
| DR-21 | NONE | NONE | NONE | NONE |
| DR-22 | R-3801-8 (SEE NOTE 8) | NONE | NONE | NONE |
| DR-23 | R-1885-P1, R-4840-C | NONE | NONE | TYPE 1, TYPE 2, TYPE 5, TYPE 7 MANHOLE RISER SYSTEM |
| DR-24 | NONE | NONE | NONE | TYPE 1, TYPE 2, TYPE 5, TYPE 7 MANHOLE RISER SYSTEM |
| DR-25 | NONE | NONE | NONE | NONE |
| DR-26 | NONE | NONE | NONE | NONE |

GENERAL NOTES:

- ONLY GRAY CAST IRON PRODUCTS FROM THE MANUFACTURES LISTED IN THE APPROVED LIST, AND THEIR APPROVED PRODUCTS MAY BE USED IN STANDARD DRAWINGS DR 1 TO 23, INCLUSIVE.
- MANUFACTURERS WHO WISH TO HAVE THEIR PRODUCTS INCLUDED IN THE APPROVED LIST MUST FORMALLY SUBMIT TO THE EXECUTIVE DIRECTOR A COMPLETE DESCRIPTION OF THEIR PRODUCTS, INCLUDING BUT NOT LIMITED TO FULL DIMENSIONAL DESCRIPTION, FULL MATERIALS DESCRIPTION, PRODUCT OR CATALOG NUMBER AND AUTHORITY'S STANDARD DRAWING FOR WHICH THE PRODUCT IS PROPOSED.
- ALL CASTINGS SHALL COMPLY WITH U.S. GOVERNMENT FEDERAL SPECIFICATION RR-F-621 D AS EMBEDDED AND THE GRAY IRON MUST COMPLY WITH AASHTO M-105, CLASS 35B. ALL CASTING SHALL BE DESIGNED AND QUALITY CONTROL TESTED FOR HEAVY DUTY HIGHWAY TRAFFIC LOADING. H 20 WHEEL LOADS OF 16,000 POUNDS MINIMUM.
- ALL APPROVALS OF MANUFACTURES AND APPROVED PRODUCTS ARE BASED UPON THE PRODUCT DESCRIBED IN THE LISTED CATALOG OR MANUFACTURER CORRESPONDENCE. APPROVED MANUFACTURERS ARE RESPONSIBLE TO FORMALLY NOTIFY THE AUTHORITY OF SUBSEQUENT EDITIONS AND CHANGES TO THEIR CATALOGS AND APPROVED PRODUCTS.
- THE CONTRACTOR MUST ADJUST, AS A SUBSIDIARY OBLIGATION, THE REINFORCED CONCRETE STRUCTURE TO ACCOMMODATE THE SELECTED CASTINGS.
- ALL DIMENSION SHOWN IN THE DR SERIES OF THE STANDARD DRAWINGS ARE IN METERS UNLESS OTHERWISE SPECIFIED. DIMENSIONS GIVEN IN MILLIMETERS SHALL BE INDICATED WITH MM. DIMENSIONS GIVEN IN INCHES SHALL BE INDICATED WITH ". DIMENSIONS GIVEN IN FEET SHALL BE INDICATED WITH '.

EFFECTIVE DATE: DECEMBER 2000

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| COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY | | | |
| DRAINAGE APPROVED LIST OF CAST IRON MANUFACTURERS AND PRODUCTS | | | RECOMMENDED BY:  DESIGN AREA DIRECTOR DATE: 7 Dec 00 APPROVED BY:  EXECUTIVE DIRECTOR DATE: 7 Dec 00 |
| DATE | REVISION | BY | STD. DR |
| 4-1999 | NEENAH'S PRODUCTS | I.V. | DWG. 1 OF 40 |
| 12-2000 | ANDREWS METAL PRODUCTS | I.V. | |