

SECTION 221423 - STORM DRAINAGE PIPING SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. General-purpose roof drains.

B. Related Requirements:

1. Section 076200 "Sheet Metal Flashing and Trim" for penetrations of roofs.
2. Section 075323 "Ethylene-Propylene-Diene-Monomer (EPDM) Roofing" for repair of existing roof membrane required to replace roof drain assembly.

1.2 ACTION SUBMITTALS

A. Product Data:

1. General-purpose roof drains.

1.3 QUALITY ASSURANCE

- A. Provide drainage piping specialties are to bear label, stamp, or other markings of specified testing agency.

PART 2 - PRODUCTS

2.1 GENERAL-PURPOSE ROOF DRAINS

A. Cast-Iron Roof Drains:

1. Cast-Iron, Large-Sump, General-Purpose Roof Drains:
 - a. Standard: ASME A112.6.4.
 - b. Body Material: Cast iron.
 - c. Dimension of Body: Nominal 14-to 16-inch (357- to 406-mm) diameter.
 - d. Dome Material: Cast iron.
 - e. Combination flashing ring and gravel stop.
 - f. Outlet: Bottom.
 - g. Outlet Type: Field verify and match existing.
 - h. Options:

- 1) Flow-control weirs.
- 2) Extension collars.
- 3) Underdeck clamp.
- 4) Sump receiver plate.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install roof drains to replace damaged existing roof drains in accordance with roof membrane manufacturer's written installation instructions at low points of roof areas.
 1. Install flashing collar or flange of roof drain to maintain integrity of waterproof membranes where penetrated.
 2. Install expansion joints, if indicated, in roof drain outlets.
 3. Position roof drains for easy access and maintenance.

3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Section 221414 "Storm Drainage Piping." Drawings indicate general arrangement of piping, fittings, and specialties.

3.3 INSTALLATION OF FLASHING

- A. Fabricate flashing from single piece of metal unless large pans, sumps, or other drainage shapes are required.
- B. Install sheet flashing on pipes, sleeves, and specialties passing through or embedded in floors and roofs with waterproof membrane.
- C. Set flashing on floors and roofs in solid coating of bituminous cement.
- D. Secure flashing into sleeve and specialty clamping ring or device.

3.4 CLEANING

- A. Clean piping specialties during installation and remove dirt and debris as work progresses.

3.5 PROTECTION

- A. Protect piping specialties during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic and construction work.
- B. Place plugs in ends of uncompleted piping at end of each day and when work stops.

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SHERMAN SCHOOL
EXISTING ROOF RECOVERY PROJECT

END OF SECTION 221423