**NOTES**

GENERAL: With normal soil and site conditions, this standard precast manhole may be used for any required manhole depth. Cast and assemble sections of the precast manholes with eccentric risers, and ties at each riser as shown on SCD MH-3.1. LIFT holes may be provided in each section for handling.

TOP: Provide a flat slab for this section unless an eccentric cone is specified.

TRANSITION (OR REDUCER): This section can be either eccentric cone or flat slab.

BASE: Manhole No. 3 is shown with a monolithic floor and riser which may be cast in one of two operations. A permissible alternate is to cast and ship the floor and barrel separately. Provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirements. Bottom channels may be formed of concrete, precast in the base or field constructed as shown on SCD MH-1.1 and MH-1.11.

RISER SECTIONS: Openings for 8" and smaller inlet pipes may be either prefabricated or cut in the field provided the sides of the pipe at the springline do not project into the manhole.

CONNECTIONS: Connections between precast manhole sections and pipes on sanitary sewers may be sealed with resilient connectors conforming to ASTM C 820.

JOINT SEAL: Furnish resilient seal between precast manhole sections on sanitary sewers and flexible gasket joints per CMS 706.11.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.

MATERIALS: Provide materials for bases and other precast sections, including reinforcement not specified here, that meet the requirements of CMS 706.13.

DROP PIPE: When specified on the plans, construct drop pipe as shown on SCD MH-3.1. When specified on the plans, construct drop pipe as shown on SCD MH-3.1.

STEPS, FRAMES AND COVERS: Meet the requirements shown on SCD MH-3.1

TOP SLAB REBAR: Use epoxy coated reinforcing steel within the top slab.

LEGEND

- Reconstruction to grade only. Approved materials are kept on file by the Office of Materials Management.

**MAXIMUM PIPE SIZES**

<table>
<thead>
<tr>
<th>BASE I.D.</th>
<th>MIN. &quot;t&quot;</th>
<th>MAX. PIPE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>60&quot;</td>
<td>5&quot;</td>
<td>38&quot;</td>
</tr>
<tr>
<td>72&quot;</td>
<td>6&quot;</td>
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<td>96&quot;</td>
<td>8&quot;</td>
<td>60&quot;</td>
</tr>
<tr>
<td>108&quot;</td>
<td>9&quot;</td>
<td>72&quot;</td>
</tr>
</tbody>
</table>

**SECTION VIEWS OF REINFORCED PRECAST MANHOLES**

**BASE I.D.**

- 60" to 108" PRECAST BASE
- 48" PRECAST BASE

SEE TABLE FOR MAXIMUM PIPE SIZES

FOR 30" AND SMALLER PIPE
FLAT SLAB TOP

Weir

Diversion

Base I.D. as shown on plans

Furnish weir height as shown in plans.

DIVERSION WEIR DETAIL

FLAT SLAB TRANSITION

SECTION A-A

FLAT SLAB TOP

NOTES

MANHOLE NO. 3 W/ "BASE I.D. AND ___ WEIR"

ALTERNATE ECCENTRIC CONE TOP

(Only if specified)

FLAT SLAB TOP

ITEM 611 - are paid for at the contract price for All materials and labor, including excavation and backfill, weir. diversion weir and space 16" on center across the entire #4 reinforcing bars. Start dowels at the center of the base of the manhole to a depth of 3" using epoxy coated trunk sewer. Dowel concrete or masonry units into the Place diversion weir perpendicular to flow of inflowing manhole is not required when a diversion weir is specified conforming to CMS 611. A bottom channel section for the concrete or Brick and Masonry Units struct diversion weir from Structural Concrete, 4000 psi furnishing manhole base with precast diversion weir or con- compressive strength concrete or Brick and Masonry units forming to CMS 611. A bottom channel section for the manhole is not required when a diversion weir is specified on the plans.

Place diversion weir perpendicular to flow of flowing Truck speed. Sowel concrete or masonry units into this section. Use metal angle 2" to 3" away from the manhole drain, forming a tape and as required for reinforcing bars. Start dowels at the center of the diversion weir and spaced 16" on center across the entire weir.

* Furnish weir height as shown in plans.