NOTES

**GRATE AND FRAME:** Provide a design essentially the same and equally as strong as the one shown in the plans. The requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

Cost the following text into the top of the grate:

"DUMP NO WASTE" and "DRAINS TO WATERWAY"

Print text in bold, capital letters at least 4" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

**BEARING AREAS:** Fit and finish frame and grate to provide a firm and even seat for all portions of the grate in the frame. No projections are permitted on bearing areas of either Casting. With the grate and frame set to the same elevation, mark frame and grate before delivery to the project.

**WALLS:** Construct brick or cast-in-place walls with a nominal thickness of 8". Precast walls to be used shall be at least 6" thick with sufficient reinforcing to permit shipping and handling without damage.

**CONCRETE:** Use 4000 psi compressive strength concrete. Meet the requirements of CMS 105.13 for precast concrete and mark with the catch basin number. Reduce the wall thickness from the outside.

**MINIMUM DEPTH:** The minimum depth is the outside diameter (O.D.) of the outlet pipe plus 1/2".

**OPENINGS:** Ensure pipe openings are the O.D. of the pipe being supplied plus 1/4" when fabricated or field cut. Fill any voids per CMS 611.

**DOWELS:** Furnish four 1" dowels for pavement and curb, see SOC BP-2.3 for dowel detail.

**BLOCKOUT APRONS:** Use 4000 psi compressive strength concrete. Cost of apron is not included in catch basin price when located in PCC pavement, and as such are deducted in normal pavement quantities. This is made because of blockout. When adjacent paving is asphalt, omit the dowels, and the cost of the concrete apron is included in the catch basin bid price. Cost of curbs, if any, is included in CMS 629. For basins without curbs, the grate elevation is 1" below the normal pavement slope measured at the center of the grate.

**PAYMENTS:** All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 6.

**CONSTRUCTION INFORMATION**

Minimum weight of grate, 210 lbs.

Minimum weight of frame, 265 lbs.