Phone: 916.683.7111 Fax: 916.691.3168

Web: www.elkgrovecity.org

8401 Laguna Palms Way Elk Grove, California 95758



Modification or Addition to Improvement Standards and Details

M	odif	icatio	n N	iimh	er.
TATA	vuii	ıvaıı	דג גנכ	WILL	· .

2014-01

Effective Date:

January 1, 2014

Modification:

1. Add Modified Type J Inlet language to Section 9-14 of the Improvement Standards. Add Standard Drawing No. SD-19.3 to Improvement Standards and Construction Specifications. Amendments are attached.

Effect of Modification:

1. Modified Type J Inlets allow adequate maintenance access when drain leads exceed 5' or deeper measured from gutter flowline.

Request for Modification Initiated By:

Modification Reviewed for Conformity and Consistency to Standards:

Construction Manager

Engineering Services Manager

Date

Modification to Improvement Standards Approved:

Public Works Director

Date

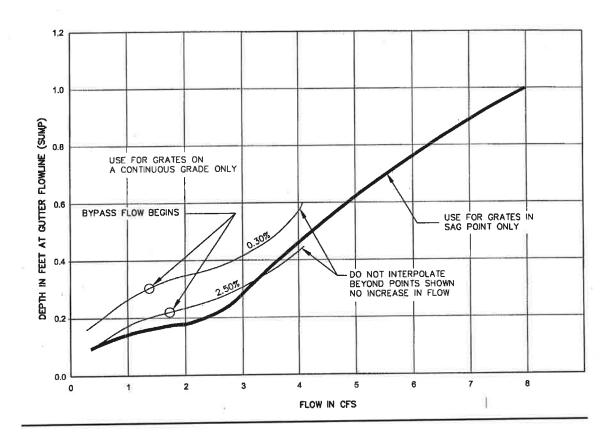
S. Junction boxes larger than ten feet (10') in any dimension shall have two manhole access points.

<u>9-14 INLETS</u>

- A. All inlet design curves in these Standards assume clean inlets. The Consulting Engineer shall assume a 50% clogging factor when determining the number and location of inlets.
- B. Additional inlets are required at sump locations per Section 9-11A of these Standards.
- C. Type B inlets are typically used for streets with concrete curbs and gutters. See Figure 9-3, for flow capacity.

FIGURE 9-3

TYPE B INLET FLOWS



D. Type J Inlets are to be used when inlet invert exceeds 5' below gutter flow line.

- E. Always use grated inlets when the longitudinal slope of the street exceeds 4% where due to the high velocities it is difficult to direct the flows into the curb opening.
- F. Type F inlets may be used in roadside ditches, swales, unimproved medians, and outside of the road right-of-way. Figure 9-1 provides design capacity for one two-foot wide window of a Type F inlet, clear of debris.
- G. Curb opening catch basins with grating(s) and debris skimmers (Drawings 300,301,308,309 in the Specifications) may be used in locations where additional inlet capacity, beyond a single Type B inlet, is needed, or as where directed by the Director. The inlet width may vary from seven feet (7') to twenty-eight feet (28'). The H dimension is the gutter depression depth and shall be a standard two inches (2"). When more than one grate is required, use Drawing SD-16 for support assembly. Assure that the lateral is sized to serve the increased inlet capacity. Flow capacity for the 300 and 301 inlets is calculated using the methods found in the Federal Highway Administration (FHWA) Urban Drainage Design Manual Hydraulic Engineering Circular No. 22.
- H. Inlets in Class "A" and "B" streets shall be placed at lot lines in residential subdivisions and at the curb return of intersections. Inlets shall be placed so that the length of flow does not exceed 500 feet, unless otherwise approved by the Director. Inlets at curb returns shall be constructed so that they are not in conflict with the Americans with Disabilities Act requirements for ramps. No face plates are allowed on inlets at the curb returns.
- I. Type F inlets shall be designed based on the following chart and Figure 9-4. The chart assumes clean openings, so some clogging shall be accounted for by adding a grated lid or increasing the window opening(s).

