



City of Santa Barbara  
Public Works Department  
**PUBLIC IMPROVEMENT PLANS  
(C-1 CONSTRUCTION DRAWINGS)**

**Introduction:**

Public Works Department C-1 construction drawings may be required when new or altered public improvements are proposed within the public right of way. Typical improvements include, but are not limited to, new or realigned street, curb and gutter and/or City utility mains. However, improvements such as new sidewalk or replacement of existing curb and gutter at the same alignment and elevation, do not invoke the requirement for a C-1 drawing. (10-16-06)

**MINIMUM SUBMITTAL REQUIREMENTS**

(See DRAFT City Engineering Design Guidelines & Land Development Process Guide for more details)

- City Master Application.** At the time of application, the Applicant shall submit a completed City Master Application to the Public Works Department Engineering Counter at 630 Garden Street to apply for a new Public Works permit (PBW). Be sure to list all public improvements proposed to be included in the C-1 drawings. In addition, a separate application for water and sewer may be required.
- Plans shall be submitted on 24" x 36" (Arch D, not ANSI D) bond with City Titleblock
- Provide **Project Description** on Title Sheet of Public Improvements Proposed (not on-site improvements).
- Provide **Engineer's Estimate of Probable Costs** for all public improvements and work in the public right-of-way (R/W).
- Submit **plan check fee** per City Fee Resolution. If no Engineer's Estimate is available at time of submittal, use 1.7% of approximate valuation of work proposed in the R/W.
- Design standards shall be listed on plans**, e.g.: the most current Standard Specifications for Public Works Construction (Greenbook); the most current City Construction Standard Details; 2006 CA M.U.T.C.D.; ADAAG/Title 24 guidelines for improvements in public R/W; City Standards for Parking Design; City Storm Water Master Plan (*see City Design Engineer to review*); City Post-Construction Management Practices (BMP's); City Pedestrian Master Plan; 2006 Cal Trans Highway Design Manual; SBMC; etc.
- Hydrology calculations.** Required primarily for storm drains.
- C-1 plans at initial submittal.** Submit a minimum of **six (6) sets** of plans prepared by a civil engineer registered in the state of CA for routing and plan checking. Submit a minimum of **3 sets in subsequent submittals**, unless otherwise directed in initial plan check comments.

- ❑ **DART requirements:** When an **Engineer's Estimate** and Land Development Agreement is required, submit a current **Preliminary Title Report (PTR)** dated within 3 months of the application for the property related to the public improvements.

## **SPECIFIC PLAN REQUIREMENTS**

### **C-1 plans shall include:**

- ❑ **Legend, Sheet Index and City Title Block** (*available on CD*). Engineering staff will assign a C-1 drawing number as a part of the initial plan check, and a Public Works permit tracking number (PBW). The project title block shall be limited to 3 lines. *For example:* the 1<sup>st</sup> line is the basic description (e.g.: Coyote Rd. Sewer Main Extension), the 2<sup>nd</sup> line would be the “xxx hundred block of xxx street” where improvements are proposed, and the 3<sup>rd</sup> line will vary between, “Title Sheet and Construction Notes”/ “Plan and Profile”/ “Details”, etc. A sample C-1 drawing with title block and revised City drafting standards are available upon request. (*Soon to be online*).
- ❑ **Engineer of Record's name and license number** including stamp with expiration date, company address, telephone number.
- ❑ Draw plans using an **Engineering scale** at an appropriate scale. Staff recommends 1”=20’ horizontal and 1”=4’ vertical minimum, or 40 scale horizontal at the smallest and 10 scale horizontal at the largest.
- ❑ **On the Title Sheet** provide a site plan, vicinity map with north arrow, abbreviation legend, and symbol legend
- ❑ **Plan and profile** views for subsurface improvements and plan view for surface public improvements.
- ❑ **General Notes** for project as determined by the Engineer of Record. See the DRAFT Engineering Design Guidelines and City Standard Notes for examples. (*Soon to be online*).
- ❑ Clearly **label existing and proposed improvements**, and differentiate with gray scale for existing and bold lines for proposed.
- ❑ Assessor's Parcel Numbers (**APN's**), street **addresses** shown for any parcels adjacent to the proposed project, **street segment id #** (available from PW counter staff), and list **SHO or PC Reso. No.** on Title Sheet, if applicable.
- ❑ Provide **dimensions** for property lines, and dimensions on right of way boundaries, street widths and provide bearings on new underground utilities (e.g.: water main, sewer main, or storm drain).
- ❑ Show all **existing and proposed utilities**, including but not limited to the sizes of mains, type of materials, services or laterals, driveways, sidewalk, curb, buildings, poles, signs, drainage structures, fences, walls, street trees, parkway improvements, and any other obstruction existing or proposed in the public right of way.
- ❑ **Structural section(s)**. Indicate thickness and type of sub-base, base and paving materials and compaction requirements as identified in a soils report and per the City's Construction Standard

**The above addresses Public Works Department concerns and requirements.  
Other City Divisions/Departments may have additional requirements.**

*For information call (805) 564-5388*

Details. Structural calculations are required for any structures in the R/W such as structural sections, retaining walls, vaults, etc.

- Indicate any **abandonment** in place, or removal of public utilities.

### **SPECIFIC PLAN REQUIREMENTS continued...**

- Indicate how **site drainage** will be accommodated and discharged into the public right of way drainage systems.
- Identify all **survey monuments** within the public R/W.
- Identify all **sandstone curbs** located at the property frontage.
- Soils report** and engineering geology report if needed.
- Survey datum** must be identified and the proposed improvements tied into the City of Santa Barbara Control Network grid, using NAVD 88 for the vertical and NAD 83 for the horizontal datum coordinate elevations. See SBMC 27.10.080. Provide **basis of bearing** on new water main, storm drain and sewer main alignments.
- Show all **proposed and existing contours**, flow arrows and drainage pipes. Site drainage to the gutter must be conveyed via City standard curb outlets with the appropriate City standard detail listed. Preliminary **hydrology calculations** may be required for any proposed drainage conveyance systems.
- Identify **cracked or uplifted concrete** sidewalks and/or driveway in construction notes to be saw-cut and replaced to City standard.
- Show new **street trees**, tree wells, and where required, tree grates. Coordinate with City Arborist. Removal of existing street trees requires Parks Commission review and approval.
- Proposed trenching in **archeologically sensitive zones** requires the applicant to consult with City Planning Division.
- Submit as a part of the C-1's a **permanent** traffic control plan (TTC) including, but not limited to, a striping plan, signals, street signs, and specifications, in addition to any improvements within the pedestrian corridor. A proposed **temporary TTC** shall be supplementary to the C-1 drawings.
- Refer to the City of Santa Barbara "draft" Engineering Design Guidelines for additional design criteria to be followed.

**The above addresses Public Works Department concerns and requirements.  
Other City Divisions/Departments may have additional requirements.**

*For information call (805) 564-5388*