

GENERAL

1. Permanent control points provided approximately every 300'.
2. All features visible within the R/W shall be surveyed, including, but not limited to, the following:
 - a. Typical transverse shots would include the CL, gutter lip, flow line, top of curb, front of sidewalk, back of sidewalk, property line and enough shots to define the slope on adjacent property.
 - b. Any roof drains or scuppers draining to the R/W.
 - c. Carriage walks must have sides shot. Any unusual materials must be noted.
 - d. Steps will be located by shooting the bottom step and noting the size and number of steps.
 - e. Fences will be located and material noted by code or attribute.
 - f. Trees should be located and size noted.
 - g. Signs in and adjacent to the R/W must be located and described in the notes.
 - h. Large above ground structures located from corners of pad with notes on size and type of structure.
 - i. Additional shots as per the experience and expertise expected from our survey crews.
3. All longitudinal features should have shots a maximum of 25' spacing or at all breaks.
4. Curbs shall be identified by code.
5. Curb returns include ends of radii, and enough shots to outline horizontal and vertical curve.
6. Adjacent parking lots must have enough shots to show drainage of the entire lot and note materials.
7. Locate concrete and bituminous headers.
8. Side streets must have centerline and curbs shot 100' from mainline.
9. Driveways will outline radii and sides, and back of drive located as separate line. Shots on center line of driveway to show slope and breaks behind property line.
10. Survey building face at or adjacent to R/W and include doorway shots.
11. Retaining walls are shot clockwise at front bottom and top defined either with a shot or height attribution. Materials must be noted either by code or attribution.
12. Shoot longitudinal concrete joints.
13. Property irons where found, condition noted. Desired minimum 3 property irons per block to facilitate the design, and more if available.

UTILITIES

1. Center of all manholes shot and identified by code.
2. Underground measurements and condition information should follow City standard manhole condition form.
3. Water manholes should have shots on the top stem of the gate valve.
4. All traffic structures located and identified.
5. Electrical poles identified by type (with or without lights).
6. Street lights identified by type.
7. Hydrants surveyed at the center nut.
8. Stop boxes surveyed from water records.
9. Vault corners surveyed.