

CITY OF PALM SPRINGS ENGINEERING DIVISION  
**STREET IMPROVEMENT PLAN CHECK SHEET**  
Revised March 15, 2011  
**Most Recent Changes to this Document are Underlined**

- I. Preparation of Plan OR Plan and Profile sheets.
  1. Mylar plan and profile sheets (3 mil) 24" x 36" or approved equal.
  2. Drawings will be in ink and all work must be clearly reproducible.
  3. Quantity estimate to be placed on first sheet.
  4. **No applicate film** to be used on final plans.
  5. **Existing features may be greyscaled, but no less than 40% black. Lines may be solid or dashed. No dotted lines are permitted for existing features.**
  
- II. Vicinity Map
  1. Shown on first sheet: Scale 1" = 800' min.
  2. Street names shown thereon with lot numbers.
  3. If part of tract, show drainage flow.
  
- III. Research
  1. Investigate engineering records for previous designs and surveys of project area.
  2. Investigate all monuments within project area.
  3. Investigate all bench marks within project area.
  4. Field check before checking plan.
  5. Check condition of existing improvements.
  6. Landscaping.
  7. Private property structure encroachments.
  
- IV. Title Block
  1. City Standard Title Block shown on all sheets.

2. City project number, drawing and file number to be shown on all sheets.
3. Registered Engineer's signature and R.C.E. number on all sheets.
4. Date plans prepared and checked by consulting engineer's staff.
5. Show benchmark description, as described by the City of Palm Springs Benchmark Book, on all sheets.
6. Number all drawings as follows:  
  
Sheet 1 of \_\_ (do not use letters)

V. General Notes

1. General Notes shall be shown on the first sheet.

VI. Plan

1. North arrow (pointing up or to the left) and scale (1" = 20', 1" = 40' or as approved by City Engineer) to be shown.
2. The center line station to be shown on plan and profile.
3. Stationing at intersections with equations (if any)
4. Stationing of all B.C.'s and E.C.'s
5. Stationing of all B.C.R.'s, M.C.'s and E.C.R.'s of curves
6. Stationing of end of improvements from left to right. No negative stationing. Show match lines on consecutive sheets.
7. Scales as required for all segments of the plans
8. Names of all streets shown on plan and profile
9. Bearing of all streets shown on plan
10. Curb return data:



21. Note size, length and gauge of C.M.P. or aluminum pipe for drainage
22. Note size, length, "D" strength or class of R.C.P. or class/type of drain pipes
23. Show construction notes wherever necessary to clarify construction details if not standard
24. The term "by others" shall not be used.
25. Show existing and proposed underground and overhead utilities, including approximate locations of laterals and services to property line

Desert Water Agency  
Contact: Debbie Randall  
(760) 323-4971 Ext. 146

Verizon  
Contact: Larry Moore  
(760) 778-3603

So. California Edison  
Contact: Amber N. Wright  
(760) 202-4250

So. California Gas Company  
Contact:  
1-800-427-2200

Time Warner Cable  
Contact: Dale Scrivner  
(760) 674-5472

Whitewater Mutual Water Company  
c/o Desert Water Agency  
Contact: Debbie Randall  
(760) 323-4971 Ext. 146

26. Refer to City Standard Drawing Number if applicable to structure or work.
27. Specifications, notes and details, if different from City Standards.
28. Improved drainage easement shall provide either pipe or lined ditch sections. Ditches lined with asphaltic material shall have the soil sterilized prior to the placement of the lining.
29. Slope easements
30. Feather the straight saw cut edge when meeting existing pavement.
31. Driveway approaches being installed shall be shown on the plan view only.

32. Minimum centerline curve radii and design speeds shall be as follows, except for hillside streets, which radii shall be determined by specific plans for individual sites:

<u>Type Street</u>	<u>TI</u>	<u>Min. CL Radii</u>	<u>Design Speed</u>
A. Major Thoroughfare (limited access)	9	1,150 feet	60 mph
B. Major Thoroughfare	9	1,000 feet	55 mph
C. Hillside Major Thoroughfare	8	600 feet	45 mph
D. Secondary Thoroughfare	8	850 feet	50 mph
E. Hillside Secondary Thoroughfare	7	250 feet	30 mph
F. Collector Street	6	700 feet	45 mph
E. Minor Street	5	300 feet	30 mph
F. Private/Hillside Street	4	130 feet	20 mph

33. Average street grades along property frontage shall not exceed 10% and shall not exceed 15% at any time. Minimum rate of grade for cross fall on asphalt pavement is 1.5% and for concrete pavement is 0.5%.
34. Generally minimum street grade shall be 0.35%, UNLESS otherwise approved by the City Engineer.
35. Grade breaks are not to exceed 0.5% along the curb line without going to a vertical curve design
36. Cul-de-sac min. flow line grade is 0.5%. Max. street grade into gutter at back of cul-de-sac shall not exceed 3%. On flat cul-de-sacs with a 0.5% grade in cul-de-sac high-point, omit vertical curve at cul-de-sac high point.
37. Use Manning's "n" for streets - 0.02 for residential and 0.015 for major streets.
38. Show construction notes on all sheets.

VII. Profile

1. Scale, unless otherwise authorized by City Engineer, is 1" = 40' horizontal and 1" = 4' vertical - horizontal scale shall match plan scale
2. Profile of center line in existing streets or ground line is dashed
3. Finish center line grade is heavy solid line

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4. Right-of-way or property line profile, both sides if full improvements, is dashed
5. Finish top of curb grade is heavy solid line
6. Label all grade lines and profiles; show percent of grade on center line and curb lines
7. Stations and elevations at beginning and end of improvement
8. P.I. (Point of Intersection) stations with elevations
9. Elevations as required on vertical curves
10. Elevations and stations on all grade breaks
11. Elevation and stationing of all equations both sides of curb
12. Extend profiles beyond end of improvement a minimum of 100' as necessary to justify grade. Show elevations of nearest intersection street. If new street intersects existing street, show profiles on existing street. Submit work profiles and sections. Show connection with or future design to existing improvements.
13. In all "grade to drain" situations show profile of ditch with elevations from beginning of ditch to daylight at 100' intervals
14. Indicate length of curb returns, show in projection
15. Show 100' stationing at bottom of profile
16. Names and stationing at intersecting street points
17. Structures to scale, note critical flow line elevations
18. Use vertical curves for all grade break differentials in excess of 1.0%. Check for flat spots at high and low points.
19. Minimum fall around curb returns with no cross gutters shall be 0.10'
20. Profile of ditch for piped drainage facilities
21. When widening an existing street, show elevations of top edge of existing pavement

VIII. Striping Plan - Separate Sheet(s)

1. Show barricades needed at temporary dead ends
2. Show widening and narrowing flare lengths
3. Show construction notes on all sheets.

IX. Americans Disabilities Act (A.D.A.) Requirements

1. The Americans With Disabilities Act (ADA) Requirements must be complied with and shown on plans.
2. The 4-foot wide sidewalk required behind driveway approaches shall have a maximum of 2% cross-slope.
3. The A.D.A. special criteria required at bay parking spaces shall be complied with. Proposed bay parking spaces must have the approval of the City of Palm Springs.