



# CITY OF INDUSTRY

Incorporated June 18, 1957

## DRAINAGE PLAN CHECKLIST

NAME OF DEVELOPMENT		LOCATION
ENGINEERING COMPANY	ENGINEER	PHONE NO.

1. The intent of the plan check is to provide a set of plans from which a contractor can construct all work required on the plan by using the information contained thereon. Where necessary, references shall be made to City of Industry Standard Plans or other public agencies' standard plans approved by the City Engineer.
2. Three sets of blueprints are required for each submittal. Check prints are required to be returned with resubmittal (24" x 36" sheet size is preferred).
3. First plan check requires approximately 2 weeks. Subsequent plan checks require approximately 1 week. These time frames are dependent upon the workload of the Engineering Department and adjust accordingly.
4. All inquiries concerning plan check status, questions, comments, or concerns shall be made by contacting the City of Industry Administrative Office at 15651 East Stafford Street, (626) 333-2211
5. Approval documentation required by item numbers 11, 12, 13 and 34 below shall be provided prior to plan approval.
6. Verify that development plan has been approved by City Council and obtain a copy of Conditions of Approval and approved site plan. The drainage and grading must conform to this approved site plan.
7. Scale is to be 1" = 20', 30', 40' or 50'
8. Show North arrow, legend, scale and bench mark on plan.
9. Show location map and legal description sufficient to identify site. Include site address in title block.
10. Use construction notes and call outs for all descriptions of work. Show limits of each item.
11. Obtain written permission from Los Angeles County Flood Control District for all connections to storm drains. (Required prior to plan approval.)

(REV. 6/98)

12. If plan shows work within an easement, obtain written permission from the controller of that easement. (Required prior to plan approval.)
13. If plan shows work outside property, obtain written permission from owners of properties involved. (Required prior to plan approval.)
14. Catch basin aprons shall be 2 feet in width, and are required in traffic areas. See City of Industry Standard Plan No. 217.
15. 90° "V" gutter angle points are not permissible. See City of Industry Standard Plan No. 216.
16. Show and identify existing sanitary sewer facilities and proposed connections. Call out type of connection required.
17. Show street improvements to be constructed in conjunction with the project.
18. Show building downspouts and how they drain to paved areas. (No drainage is permitted across sidewalks or pedestrian accesses.)
19. Identify areas to be landscaped. (Use call out.)
20. All cut and fill slopes are to be planted with an approved perennial.
21. All retaining walls regardless of height, or a free standing wall which is higher than 6 feet, require a separate building permit and are not a part of the drainage approval. Call out retaining walls on plan.
22. Handicapped facilities are to be constructed per state requirements through Building and Safety regulations and are not a part of the drainage plan approval. Call out handicapped facilities on plan.
23. The supervising civil engineer shall file with the City Engineer a final grading certificate upon completion of work at least 24 hours in advance of requesting final inspection by the City.
24. Show existing contours on entire site and adjacent property so that existing drainage pattern can be clearly established.
25. Show location of all existing natural drainage courses and storm drains. No fill is permitted to divert or block drainage in a natural drainage course without providing adequate drainage devices to allow passage of storm waters. City Engineer is to approve storm drain devices.
26. Give complete drainage pattern of graded areas. Show drainage lines so that water flows to street or improved drainage course only. Storm runoff will not be allowed to surface flow across rear or side property lines and onto adjacent parcels, except where a shared underground drain is placed along such property line.

27. Show spot elevations and finish elevations at all corners of graded areas and structures, enough to show directions of drainage:

#### Minimum Finished Grades

compacted fill or cut - 2% recommended (1% minimum)  
asphaltic concrete pavement - 1.5% recommended (1% minimum)  
concrete facilities such as "V" gutter - 1% recommended (0.4% minimum)

28. Asphalt flow lines are not permitted. Use devices such as curb and gutter or "V" gutter.
29. Show how drainage is prevented from going onto adjacent property. Give details of side swale or berm.
30. No fill may be placed on existing terrain which slopes greater than 2 to 1 without a complete geological report.
31. Existing terrain sloping greater than 5 to 1 must be benched to support fill. Show areas to be benched on plan. Give details on benching.
32. Specify on plans proposed slope of cut and fill banks: 2 to 1 maximum cut, 2 to 1 maximum for compacted fill.
33. Draw top and toe of cut and fill slope to scale.
34. Show typical section for all cut and fill slopes.
35. Cut or fill slopes are not permitted to straddle property lines.
36. Hold toe of fill slopes inside property lines. Slopes up to 5' = 1' minimum; slopes 5' to 20' = 2' minimum; slopes over 20' = 5' minimum.
37. Hold top of cut slopes 3' minimum inside property lines for slopes under 15' high. For cut slopes over 15' high, hold top of cut inside property line a distance equal to 1/5 of the vertical height of slope.
38. Provide berm along top of all fill slopes. Give details.
39. The attached General Notes shall be included on the plan.

## GENERAL NOTES

- A. Supervision of construction shown on this plan, including grades, earthwork operation, paving and drainage facilities, will be performed by \_\_\_\_\_.
- B. A report of soils investigation, including recommendations for grading procedures based on the requirements of Chapter 70, Los Angeles County Building Code (latest edition), and pavement and base thickness, has been prepared by the following soils engineer: \_\_\_\_\_ . Earthwork and paving shall conform to the recommendations contained in the report.
- C. The soils engineer shall observe, inspect and test all earthwork operations including, but not limited to, clearing and grubbing, subgrade preparation, structural and trench excavation and backfill, and placement and compaction of fill.
- D. After completion of the grading operation, and prior to a request for final inspection, the soils engineer shall submit to the undersigned registered civil engineer a copy of density reports, together with his written verification that the completed work conforms to the intent of the plans, specification and soils report recommendations.
- E. Permanent cut or fill slopes shall not exceed a slope of two horizontal to one vertical.
- F. All fill slope faces shall be compacted. If the slope is to be landscaped, the surface six inches may be left uncompacted for planting.
- G. Contractor shall provide protective measures and temporary drainage and desilting facilities to protect adjoining properties from storm waters originating on or diverted from the construction site.
- H. Grade sheets for all concrete curb and gutters, curbs, "V" gutters, slabs, storm drains and sewers shall be prepared by the undersigned engineer. Copies of the grade sheets shall be maintained at the job site for the City Engineer's review.
- I. Grade stakes shall be set at 12.5' intervals for all "V" gutters, curb and gutter, and drainage systems with flow line slopes of less than 0.4%. Contractor shall provide grade sheets to City Engineer's office for acceptance 48 hours prior to pouring concrete.
- J. Existing contours and other existing topographic features are a true representation of site conditions on \_\_\_\_\_ , provided by \_\_\_\_\_ .
- K. The contractor shall keep all adjacent streets and haul routes clear of dirt and debris originating from the construction site or resulting from the project work.
- L. The contractor will be responsible for maintaining low levels of noise and dust.

- M. The contractor shall secure all necessary excavation and construction permits from the City of Industry for all work within the public right-of-way and associated easements.
- N. Retaining walls require a separate building permit.
- O. Handicapped facilities require separate approval from Building and Safety.
- P. A separate Storm Water Pollution Prevention Plan (SWPPP) for implementation of Best Management Practices, temporary drainage and erosion control measures and inventory of potential pollutants shall be submitted to the California State Water Control Board along with the filing of a Notice of Intent (NOI). Both copies of the SWPPP and NOI must be maintained at the site at all times for review by state and local inspectors.
- Q. Any modifications of or changes to this plan must be approved by the City Engineer prior to the institution of said modification or change.
- R. The undersigned registered civil engineer certifies that his plan was prepared under his supervision and that the plan does comply with City of Industry ordinances. **He will, upon completion of the project and prior to request for final acceptance, submit to the City Engineer written verification that the completed work does conform to this plan.** Furthermore, as the engineer of record, he has selected appropriate BMPs to effectively minimize the negative impacts of this project's construction activities on storm water quality. The project owner and contractor are aware that the selected BMPs must be installed, monitored, and maintained to ensure their effectiveness. The BMPs not selected for implementation are redundant or deemed not applicable to the proposed construction activities.

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Signature

Date

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Printed Name

RCE

Expiration

**PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**

The existence and approximate location of underground utilities or structures shown on these plans were determined by a search of the available public records. To the best of our knowledge there are no existing underground utilities or structures except as shown on these plans.

The contractor is required to take due precautionary measures to protect the utilities or structures shown and any other utilities or structures not of record or not shown on these plans.

Estimated project start date \_\_\_\_\_.

Estimated completion date \_\_\_\_\_.