

CITY OF PORTERVILLE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

IMPROVEMENT PLANS CHECKLIST

Subdivision: _____ Date: _____

Owner: _____ Checked By: _____

Engineer: _____

OK
 Needs Correction
 No Requirement
 Needs Clarification
 Submittal Required

A. DOCUMENTS REQUIRED;

- _____ Engineer's estimate for cost of improvements.
- _____ Soils report (R-value and percolation data, where applicable).
- _____ Calculations for structural section of street pavement
- _____ Calculations for design of gutters, storm drains and drainage reservoirs.
- _____ Calculations for design of lift stations (sewer or drainage).
- _____ Calculations for the design of size of water mains.
- _____ Design calculation for retaining walls.
- _____ Calculations for design of size of sewer mains.

B. DESIGN AND CONSTRUCTION STANDARDS:

STREETS

- _____ Specifications for materials and construction methods.
- _____ Width based on street classification and/or conditions.
- _____ Name of streets and lot numbers conform with subdivision map.
- _____ Minimum and maximum slopes of streets.
- _____ Minimum and maximum cross slopes of streets.
- _____ Minimum slope of curb and gutter. Elevations conform with slopes as shown.
- _____ Structural street sections as drawn conform with design calculations.
- _____ Emergency access road designed properly.
- _____ Deadend streets adequately designed and barricaded.
- _____ New pavement must meet grade of existing pavement properly.
- _____ Centerlines of streets offset at least 150 feet from existing street if continuation is impractical.
- _____ Street intersections at right angle and no less than 60 degrees.
- _____ Minimum curb return radius; residential = 20 feet, commercial area, arterial or collector streets = 20 feet.

- _____ Cul-de-sac's – length must not exceed 600 feet.
- _____ Street center line radius; arterial streets must not be less than 600 feet, other streets not less than 200 feet.
- _____ Frontage street required if lots on any major arterial street, expressway or freeway are allowed ingress to and egress from such lots.

SEWER SYSTEM

- _____ Specifications for materials and construction methods.
- _____ Complete drawing and specifications of sewage lift station.
- _____ Size and slope of sewer mains conform with design calculations and slope complies with minimum slopes for pipe size.
- _____ Type of material to be used for sewer pipes.
- _____ Slope of sewer mains conforms with elevations shown.
- _____ Minimum cover of 32 inches for sewer mains is provided.
- _____ Maximum spanning of manholes is 550 feet.

WATER SYSTEM

- _____ Specifications for materials and construction methods.
- _____ Size of water mains to provide minimum fire flow of 1000 g.p.m. @ 20 p.s.i. min. residual pressure.
- _____ Type of material to be used for water pipe.
- _____ Spacing and proper location of water valves.
- _____ Maximum spacing and proper location of fire hydrants. (Residential – 500 feet; multiple residential – 450 feet; commercial/industrial – 300 feet) or per Tentative Subdivision Map.
- _____ Minimum cover of 32 inches for water mains is provided.
- _____ Minimum horizontal separation of 12 feet between water mains and sewer mains and vertical separation of 12 inches is provided.
- _____ Blow off assembly at deadends of water mains.

DRAINAGE SYSTEM

- _____ Specifications for materials and construction methods.
- _____ Grading plan of lots showing existing and finished grade elevations throughout and especially along perimeter of subdivision.
- _____ Drain inlets located so that depth of flow in gutters does not exceed 0.4 foot (4.8 inches).
- _____ Size and slope of storm drain based on design calculations.
- _____ Minimum cover of 32 inches for storm water pipe.
- _____ Type of material to be used for storm drain pipe.
- _____ Capacity of drainage reservoir base on design calculations.
- _____ Complete drawing and specification of storm water lift station.
- _____ Cross section of retaining walls conform with design specifications.
- _____ Project meets "Storm Water Management Plan" guidelines.

MISC.

- _____ Specifications for materials and construction methods.
- _____ Easements needed for sewer, water and storm drain pipes.
- _____ Location and intensity of street lights.
- _____ Railroad crossings, access allowed with improvements to be made.
- _____ North Arrow, scale, signature of engineer, title of drawing, sheet numbers, and legibility.
- _____ Benchmark used must be USGS NAVD88.

C. DESIGN BASED ON MASTER PLANS:

- _____ Verify that sewer pipes are sized according to Sewer Master Plan.
- _____ Verify that storm drain pipes are sized according to Storm Drain Master Plan.
- _____ Verify that water pipes are sized according to Water Master Plan.
- _____ Identify oversized facilities that need City's reimbursement for extra costs.

D. OTHER REQUIREMENTS:

- _____ 1. Permit/application for the abandonment of wells, septic tanks, house demolition, etc.
- _____ 2. Approval of other agency required.
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____
- _____ 9. _____
- _____ 10. _____

