



COMMERCIAL/INDUSTRIAL PLAN SET

Checklist

Carefully follow the Checklist below and **initial each item** as being completed or put N/A if waived by staff or not applicable to approval process. Incomplete Applications will not be accepted for review. The West Valley City Engineering Standards can be found online on our website: <https://www.wvc-ut.gov/20/Engineering>

Construction drawings

1. _____ Final construction drawings of all required public improvements consistent with West Valley City Design Standards. An engineer must stamp and date all construction drawings in accordance with the procedures of the Utah State Board for Professional Registration. Construction drawings shall include:
 - a. _____ Vicinity Map
 - b. _____ North arrow, Standard Engineering Scale and Legend
 - c. _____ Sheet Index
2. _____ Show and label existing and proposed right of way and property lines on all applicable sheets
3. _____ **Street Plan** (see WVC Engineering Standards – Part 3: Roadway Design)
 - a. _____ Include north arrow, standard engineering scale and legend.
 - b. _____ Show existing and proposed improvements on subject parcel(s) and opposite and adjacent frontages.
 - c. _____ Show existing utility and storm drain infrastructure in plan and profile with location, pipe type (may be noted in a utility legend), and size.
 - i. _____ Include existing and proposed culinary and pressurized irrigation lines and associated fire hydrants, valves, and blowoffs (per Water-Sewer District Standards).
 - ii. _____ Include depth, and slope of all sewer lines, with the proper spacing of all boxes, manholes and other improvements.
 - iii. _____ Include depth, and slope of all drainage lines, with the proper spacing of all boxes, manholes and other improvements (Minimum 15" RCP required within public right-of-way).
 - iv. _____ Location of power line extensions, streetlights, domes, and transformers. Location of existing power infrastructure and ownership.
 - v. _____ Include all applicable callouts to Standard Drawings (see WVC Engineering Standards 2.2 and 2.3)
 - d. _____ Typical sections of all roads including pavement design, base and subbase amounts and location of utilities within the street right of way.
 - e. _____ The California Bearing Ratio (CBR) value (used to determine the amount of road sub-base required) must be noted on each road cross section. (see WVC Engineering Standards 3.3.2.1, Verify if MINOR STREET, MINOR COLLECTOR, COLLECTOR or greater (66' ROW+)
 - f. _____ Show plan and profile of streets, including curb and gutter when roadway widening occurs. Label slopes (see WVC Engineering Standards 3.1.3), roadway width, lane and shoulder widths.
 - g. _____ Asphalt pavement tie-in per APWA Standard Plan 251 (see WVC Engineering Standards 3.1.4). Include existing edge of asphalt elevations and label proposed cross



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- h. _____ slopes.
 - h. _____ Pedestrian Access Ramps per UDOT Standard Drawings (see WVC Engineering Standards 3.2.3)
 - i. _____ Include TBC and Centerline stations and elevations to be shown at 50' intervals and at all PC, PT, PRC, PVI, BVC and EVC locations.
 - j. _____ Vertical curve stations and elevations to be shown at 25' intervals.
 - k. _____ Identify County benchmark location and elevation.
 - 4. _____ **Grading and Drainage Plan** (see WVC Engineering Standards – Part 4: Drainage Design Standards)
 - a. _____ Reference Drainage Report completed for the project.
 - b. _____ Label size, type, slope, and length of each existing and proposed gravity flow pipe. All storm drain piping within the public right-of-way to be minimum 15" RCP.
 - c. _____ Provide table of all pervious and impervious areas on the site, new and existing
 - d. _____ Identify required/provided volumes for each detention/retention area.
 - e. _____ Label high water contour of detention/retention areas.
 - f. _____ Minimum 1 foot freeboard required.
 - g. _____ Orifice/Water Quality Treatment BMPs
 - h. _____ Show all irrigation and drainage ditches and proposed piping. Written approval from water users to pipe or abandon any ditches on property (see WVC Code 7-13-808 (3))
 - i. _____ Include Cross Sections or Typical Sections for channels or ponds.
 - j. _____ Final grading shall be performed in such a way that excess water shall be contained entirely on the site. Excess water shall not be allowed to drain onto adjacent property unless approved as part of an overall system, as reflected in the subdivision approval or otherwise.
 - 5. _____ **Drainage Report** (see WVC Engineering Standards 4.2)
 - a. _____ Narrative
 - b. _____ Retention/ Detention calculations
 - i. _____ Retention 100 yr, 24 hr storm event calculations (no percolation)
 - ii. _____ Detention – 10 yr storm event calculations (see WVC Engineering Standards Appendix 8.1 for release rate map)
 - c. _____ Low Impact Development Evaluation - Does Site meet "Land Disturbance Threshold"? (see WVC Engineering Standards 4.1.1.1.)
 - i. _____ LID Design/Calculations (see West Valley Engineering Standards 4.1.1.5)
 - ii. _____ LID BMPs for Project Volume Retention Goal (see WVC Engineering Standards 4.1.1.5.2)
 - d. _____ Pipe Sizing Calculations
 - e. _____ Inlet Spacing and Gutter Spread Calculations
 - f. _____ Orifice Calculations
 - 6. _____ **Street Lighting Plan** (see WVC Engineering Standards 3.5)
 - 7. _____ **Roadway Striping Plan** for all Collector Streets or larger
 - a. _____ Label striping color, size, type
 - b. _____ Label existing and proposed lane widths
 - c. _____ Label all tapers
 - d. _____ Detail all existing and proposed signs



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8. _____ **Storm Water Pollution Prevention Plan (SWPPP)** for developments meeting the “Land Disturbance Threshold”. Developments of areas less than one acre will still be required to take appropriate measures to prevent sediment from entering the storm drain system and to prevent the tracking of mud and debris onto city streets. (see WVC Engineering Standards Section 4.3)
 9. _____ **Traffic Generation Analysis (TGA)**
 10. _____ **Traffic Impact Study (TIS)** if required
 11. _____ **Engineer’s Estimate** of all quantities, unit prices and total cost of Public Infrastructure, Storm Water Storage Facilities, and Permanent Storm Water Quality BMPs.

CERTIFICATION

I (we) certify under penalty of perjury that this submittal and all information submitted as a part of this submittal is true, complete, and accurate to the best of my knowledge. Should any of the information or representations submitted in connection with this submittal be incorrect or untrue, I (we) understand that West Valley City may rescind any approval or take any other legal or appropriate action. I (we) also acknowledge that I (we) have reviewed the applicable sections of the West Valley City Development Code and Engineering Standards that items and checklists contained in this submittal are basic and minimum requirements only and that other requirements may be imposed that are unique to individual projects or uses. I (we) also agree to allow the Staff, appointed agent(s) of the City to enter the subject property to make any necessary inspections thereof.

Applicant’s Signature _____ Title _____ Date _____

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