

Appendix B

As-built Drawing Format

The Developer shall submit one hard copy of the As-Built Drawings. Drawings shall be 24" x 36" or 22" x 34" and shall be printed on bond paper. The Developer shall also submit electronic files containing the information depicted on the As-Built Drawings.

In the event that the Developer does not have the capability of producing electronic drawings, the District will accept the hard copy drawings as fulfillment of the As-Built requirements. However, the cost to the District for scanning, vectorizing and manipulating drawings to develop the required electronic data will be deducted from the Project Documentation Deposit

Electronic files shall conform to the following requirements:

- File format shall be AutoCad Release 12-14 compatible.
- Files shall be submitted on portable media such as 3.5-inch floppy diskette, ZIP disk or CD-ROM. The media containing the files shall become the property of the District, and will not be returned to the Developer. Files may be compressed in a format that is compatible with the WinZip decompression software.
- The Developer shall submit all files used to produce the As-Built Drawings. Drawing files may utilize external references to reduce file size. However, all such reference files shall be included in the submittal.
- Drawing layer structure shall be as given in Table 1. The Developer may use any combination of other layer names as desired for other elements depicted in the drawings. However, the relevant infrastructure system facilities shall appear on the designated layers. If certain facilities indicated by a given layer are not included as part of the project, the corresponding drawing layers may be purged from the drawing file.

Table 1. Standard Layering Convention

Layer Name	Description
Electric System	
E-NEW_PRI3PH	All new underground primary 3-phase circuits to be constructed as part of the project.
E-EXIST_PRI3PH	All existing underground primary 3-phase circuits.
E-NEW_PRI1PH	All new underground primary single-phase circuits to be constructed as part of the project.
E-EXIST_PRI1PH	All existing underground primary single-phase circuit.
E-NEW_SEC	All new secondary distribution to be constructed as part of the project.
E-EXIST_SEC	All existing secondary distribution.
E-NEW_VAULT	All new vaults, boxes, manholes and other similar underground structures.
E-EXIST_VAULT	All existing vaults, boxes, manholes and other similar underground structures.
E-NEW_SYSTEM	All new transformers, switches, risers and similar structures.

Layer Name	Description
E-EXIST_SYSTEM	All existing transformers, switches, risers and similar structures.
Roadways & Traffic	
R-EXIST_RW	All existing edge of right-of-way within the vicinity of the project under development. The edge of right-of-way for both public and private roads shall be indicated.
R-NEW_RW	All new edge of right-of-way to be constructed as part of the project under development. The edge of right-of-way for both public and private roads shall be indicated.
R-EXIST_EOP	All existing edge of pavement within the vicinity of the project under development. The edge of pavement for both public and private roads shall be indicated.
R-NEW_EOP	All new edge of pavement to be constructed as part of the project under development. The edge of pavement for both public and private roads shall be indicated.
R-EXIST_TRAFFIC	All existing traffic signals, signal poles, control boxes, sensor loops and similar traffic control devices within the vicinity of the project under development.
R-NEW_TRAFFIC	All new traffic signals, signal poles, control boxes, sensor loops and similar traffic control devices to be constructed as part of the project under development.
R-EXIST_LIGHTING	All existing street lighting, light poles, circuits (both underground and overhead), control boxes and similar lighting devices within the vicinity of the project under development.
R-NEW_LIGHTING	All new street lighting, light poles, circuits (both underground and overhead), control boxes and similar lighting to be constructed as part of the project under development.
Sanitary Sewer	
S-NEW_PIPE	All new sewer mains to be constructed as part of the project under development. Manholes and other appurtenances shall be depicted on separate layers as noted below.
S-EXIST_PIPE	All existing sewer mains within the vicinity of the project under development. Such mains may or may not be a point of connection for new piping to be constructed.
S-NEW_LATERAL	All new sewer laterals to be constructed as part of the project under development. The depiction of laterals may be stopped where they enter a structure.
S-EXIST_LATERAL	All existing sewer laterals within the vicinity of the project under development.
S-NEW_MH	All new sewer manholes to be constructed as part of the project under development. Other new appurtenances such as tees and wyes shall also be depicted on this layer.
S-EXIST_MH	All existing sewer manholes and appurtenances within the vicinity of the project under development.
Storm Drainage	

Layer Name	Description
D-NEW_PIPE	All new storm drain piping and culverts to be constructed as part of the project under development.
D-EXIST_PIPE	All existing storm drain piping and culverts within the vicinity of the project under development. Such piping may or may not be a point of connection for new piping to be constructed.
D-NEW_APP	All new storm drain drop inlets, junction boxes, manholes, headwalls and similar appurtenances to be constructed as part of the project under development.
D-EXIST_APP	All existing storm drain drop inlets, junction boxes, manholes, headwalls and similar appurtenances within the vicinity of the project under development. Such appurtenances may or may not be a point of connection for new facilities to be constructed.
Water System	
W-NEW_PIPE	All new main line water piping to be constructed as part of the project under development. Main line piping is all piping to be dedicated to the District and maintained by the District upon successful completion of testing & acceptance of the facilities by the District. Valves and fittings shall be depicted on separate layers as noted below.
W-EXIST_PIPE	All existing water piping within the vicinity of the project under development. Such piping may or may not be a point of connection for new piping to be constructed.
W-NEW_LATERAL	All new water service laterals to be constructed as part of the project under development. For the purposes of As-Built Drawings only, the lateral is considered all piping from the main line pipe through the meter box to the point of termination. The depiction of laterals may be stopped where they enter a structure.
W-EXIST_LATERAL	All existing water service laterals within the vicinity of the project under development.
W-NEW_BOX	All new water meter boxes to be constructed as part of the project under development.
W-EXIST_BOX	All existing water meter boxes within the vicinity of the project under development.
W-NEW_VALVE	All new main line water valves to be constructed as part of the project under development. Valves shall also include blow-offs, air-release valves, vacuum release valves and pressure reducing valves.
W-EXIST_VALVE	All existing main line water valves within the vicinity of the project under development.
W-NEW_FITTING	All new main line fittings to be constructed as part of the project under development. Fittings shall include tees, elbows, crosses and hydrants.
W-EXIST_FITTING	All existing main line fittings within the vicinity of the project under development.

Layer Name	Description
W-NEW_OTHER	All other water system facilities not given above to be constructed as part of the project shall be located on this layer.
W-EXIST_OTHER	All other existing water system facilities not given above shall be located on this layer.

- The size, material, lining and coating of all new water system facilities shall be noted on the plans.
- The size and type of all new electric system facilities including conduit, vaults, boxes, service panels and meter panels shall be noted on the plans.
- The coordinate system for all as-built drawings shall be California State Plane Coordinates, NAD 83, Zone 2 in US feet. All elevations shall be referenced to the NGVD 88 datum with elevations given in feet.
- The complete coordinates (northing, easting and elevation) shall be noted for at least three points on the drawings.
- In cases where plan and profile sheets cannot completely depict the facilities as constructed, the Developer shall utilize details, sections, elevations or other similar drawings to illustrate the facilities as constructed. Such drawings shall be to scale and the scale shall be clearly noted on the drawings.
- All plan sheets shall be to scale and the scale shall be clearly noted on the drawings.
- All plan sheets shall have an arrow indicating the direction North.

See also: Customer Relations Section 5.01.027; Water Service Section 6.04.027; Electric Service Section 7.012.027

(Reso. 2001)