

ATTACHMENT 1-14/2-6
AS-BUILT REQUIREMENTS
PAVING AND DRAINAGE

General

- 1) Two (2) signed and sealed sets of prints of the construction drawing(s) with the design information (elevations, pipe lengths, stationing, etc.) lined through (~~28.48~~) and the as-built information placed adjacent to it. Erasures should be kept to a minimum (i.e. for placement of certification statements and "AS-BUILT" lettering).

NOTE: To minimize the possibility of as-built drawings looking too cluttered, the plan(s) can be redrawn specifically for as-built information. If this is done, the drawing(s) are to be on 24" X 36" sheet(s) and contain the following in addition to the as-built information:

Project name as it appears on the plat
Development number
Street names
Lined through design information for all as-built information provided
North arrow
Scale
Show and label all survey-lines used for locations

- 2) The words "AS-BUILT" in at least one-inch high letters.
- 3) Materials certification statement (Attachment No. 19A) signed by the contractor.
- 4) Signed registered professional's OR surveyor's certification statement (Attachment No. 18 or 19).
- 5) Information pertaining to benchmark (location, elevation, and reference type).

Paving

Stations, offsets, and elevations on:

Center-line or profile grade line
Top of curb
Gutter or edge of pavement (specify which)
Back of sidewalks
a minimum of every 300 feet and at the following changes in vertical and horizontal alignment: PVC and PVT
Low and high points
Curb returns
Centerline intersections
Begin and end valley gutter
Begin and end superelevation transition
Begin and end full superelevation

Drainage

- 1) Location of all drainage structures. Location should be by station and offset whenever possible, otherwise structures must be tied down from at least two directions.
- 2) Sizes, lengths, and types of drainage pipes including underdrain.
- 3) Information for all structures to include:

Pipe invert elevations including underdrain
Top or grate elevations (specify which)
Weir or slot elevations and sizes

- 4) Cross sections through all swale and ditch construction a minimum of every 100 feet to include **elevations** and **locations** of the centerline or toes of slope (specify which) and the tops of bank.
- 5) Information for retention / detention basins to include:

- Elevations and locations along the top of bank a minimum of every 100 feet
- Dated elevation of the water stage at the time of as-built
- Ties from the top of bank to the waters edge a minimum of every 100 feet
- Elevations along the bottom of basin (2 shots per average pond acreage)

- 6) Information for control structure to include:

- Location
- Top elevation
- Weir or slot elevation and size
- Elevation and size of drawdown orifice
- Length, size, and inverts (at high and low points) of filter drain
- Invert of outfall pipe

- 7) Show all drainage easements, encroachments within the easements, and any encroachments of drainage outside of easements.