Authority:  City of Tampa Code  
Stormwater Technical Standard  
Chapter 21

Objective:  The purpose of this policy is to review site drainage designs to prevent problems which frequently occur as a result of inadequate drainage for development within the City Construction performed without adequate consideration for drainage on both the site and surrounding property, often results in costly drainage problems for the City. This connection with building permits greatly assists in preventing and reducing drainage problems associated with new construction.

General:  The Site Review Services section approves the designs for proposed culvert construction, in conjunction with new home or driveway construction. Applications for doing work only in the Right-of-way are filled out and submitted with the Transportation Division.

Required Information for All Culverts:

A proposed construction plan showing:

1. Existing culverts up and down stream: material (RCP, CMP, PVC, etc.) size, inverts.

2. Minimum required elevations: center line of street, edge of pavement, top of ditch bank, and center line of ditch up and down stream. Inverts to/at the nearest public system or intersection may be required.

3. Any other ditch or drainage feature, headwall, utility crossing, utility pole, tree, out fall, etc.

4. Proposed new construction: material, inverts, size, headwall, mitered sections, length, driveway inlet, tie-ins. All construction details and specifications shall comply with City of Tampa Standard drawings and specifications. If City of Tampa Standards and specifications do not exist, F.D.O.T. Standard drawings and specifications shall be utilized.

Specifications:

1. Minimum size culvert is 15" or 12" x 18" elliptical. A larger culvert may be required.

2. Reinforced concrete - at least ASTM 6-76-72A rated, or polyvinyl/plastic pipe (smooth inside, corrugated or smooth outside). Pipe must be rated for H20, E80 loading or manufacturer-specified rated for maximum site loading.

3. Any culvert that is less than 15" in diameter, or any culvert that is constructed of a non-accepted material (PVC, VCP, etc.) or any culvert that is not in an acceptable condition, can not be tied into, or in any way become a part of the new construction. New driveway
aprons can not be constructed over a culvert that does not meet current City of Tampa specifications.

4. Headwalls, mitered ends, inlets, collars, manholes, etc., shall be per City of Tampa Standards, and if not available, F.D.O.T. standards shall be used.

5. All joints shall be wrapped with filter fabric (2 feet wide minimum) and banded. All joints shall be inspected and accepted prior to covering.

**Formal Engineering:** A design sealed by a Civil Engineer is not normally required for residential culverts, but the City of Tampa reserves the right to require an engineered plan if warranted. Commercial culvert designs shall be sealed by a Professional Engineer.

**Procedures:**

1. Submit all plans, surveys and other appropriate information to the Construction Service Center. The submitted package will be reviewed and coordinated with the Site Review Services section as required. The reviewer will compile all the available information and approve or disapprove the proposed construction.

2. Any proposed work to be done only in the Right-of-way requires a Transportation Department permit. An application to work in the Right-of-way will be accepted by the Transportation Department for processing.

**Inspections:**

1. The Site Review Services section shall inspect driveway culverts, related to new construction, that are 18" or less in diameter. Culverts over 18" in diameter, inlet or manhole construction, or any construction that connects to an existing system, or any culvert installation of 36' in length or more shall be inspected and accepted by the Transportation Departments Construction Engineering Division.

2. Prior to acceptance by the City of Tampa, the Site Review Services section may inspect, at its option and reject any stormwater system, culvert or related construction that does not meet current construction and maintenance criteria, or in the opinion of the official, would not be in the best interest of the City of Tampa.

**Cost of Construction:** All cost for design, survey and construction is the responsibility of the applicant. All work shall be done by a City of Tampa approved contractor obtained by the applicant.

The degree of detail required on submitted plans varies depending on the complexity, area and size. These requirements are deemed to be the minimum necessary for an adequate evaluation to be made. More detail and/or information may be required. For more information, please contact the Construction Services Division at 813-274-3100.
TOTAL LENGTH = X + 8 + 2Y

CULVERT CROSS SECTION TYPICAL DETAILS

MITRED END TYPE

HEADCOLUMN TYPE

Concrete Elevation

MITRED ENDS

MAX. SLOPE 1/6

MIN. SLOPE 1/6

MIN. DRIVE WAY 4’-0’

MIN. 1’-0’

1’-0’ MIN.

VARIES

CULVERT INSERT

#3 REBAR

1’-9’ ON CENTER

2’-0’ LONG (APPROX.)

3’ VERTICAL

1’ HORIZONTAL

MAX. SLOPE

POURED IN-PLACE HEADWALL

SAND-CEMENT BAG RIP-RAP HEADWALL

N.T.S.