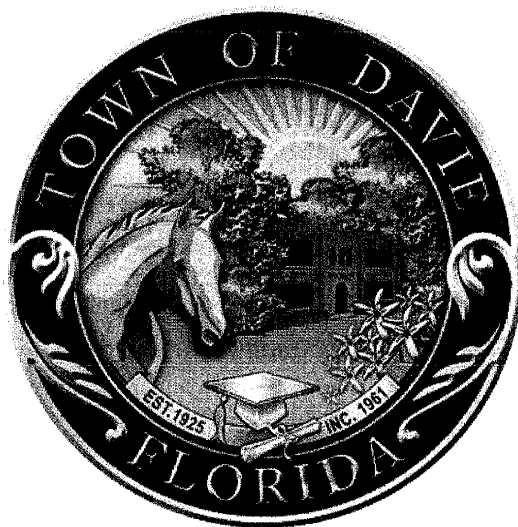


SECTION III
EXCAVATION AND FILL CRITERIA



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EXCAVATION AND FILL CRITERIA:

3.1. Site Fill:

All organic and unsuitable material shall be removed from under proposed paved area and within the full width of the right-of-way.

Suitable fill shall replace the excavated material. The fill shall be minimum LBR of 40 compacted to 98% of the maximum density as determined by AASHTO T-180.

All fill activities within a 100-year flood plain shall provide for compensating storage within the same 100-year flood plain.

The Town Engineer may request a 100-year flood study for a project within a suspected 100-year flood plain with no established 100-year flood elevation.

3.2 Excavation:

Engineering plan approval by the Town for the specific excavation task must be obtained prior to commencement of any excavation activity.

No mining, or quarrying activities are permitted within the Town's limits. Blasting if required due to certain soil conditions must be specifically approved by the Town Engineer based on justifications from the applicant. Blasting is usually required to fracture the competent, to moderately well cemented limestone layers with SPT values typically in excess of 25 blows/foot which are within proposed excavation areas.

Should blasting not be allowed, specialized construction equipment such as large trench excavators may be required to facilitate excavation. For additional information, please reference the SFWMD C-11 Impoundment BODR (current edition).

Bracing and shoring shall be used as required to support the sides of excavation activity and prevent and earth movement and/or accidental collapse. All bracing and sheeting not left in place shall be removed in a matter that shall not endanger the work, personnel or adjacent structures.

Broken pavement and other unused construction material shall be removed from the site as soon as practical and properly disposed of. Excavated material may not be stockpiled within public right-of-way without proper approval from BCHCED.

Water resulting from de-watering or pumping operations during excavation activities must be handled or disposed of in accordance with the State Health Department, Florida

Department of Environmental Protection (FDEP) and Broward County Department of Environmental Protection (BCEPD).

Wetlands excavation: Prior to the commencement of any wetland excavation activity, letters and approvals from South Florida Water Management District (SFWMD), Central Broward Water Control District (CBWCD), Florida Department of Environmental Protection (FDEP), U.S. Army Corps of Engineers (USACOE), Environmental Protection Agency (EPA) and Broward County Department of Environmental Protection (BCDPEP) must be submitted to the Town of Davie for review.

3.3 Backfilling and Compaction:

Field Density Tests: All field density tests shall be in accordance with ASTM Standard D5195 using Surface Moisture-Density Gauges, unless otherwise approved. If the first two (2) densities taken during a test fail, the test shall be rescheduled. Roadway density tests shall be taken in each lane and shoulders at intervals of 500 feet or less, as directed by BCHCED.

Embankments: All material shall be granular, well graded and have a minimum LBR of 40. All stripped asphalt and vegetation must be removed from the backfill material. With the approval of BCHCED, rocks that are removed may be crushed and reused as backfill material.

Backfill material shall be placed in layers with a maximum thickness of 8", with each layer compacted to 100% of maximum density per AASHTO T-99-C. The layering must occur under the supervision of BCHCED. Swale areas need only be compacted to 95% of maximum density per AASHTO T-99-C.

3.4 General:

All construction projects including all active on-site personnel and stakeholder must comply with the US Department of Labor, Occupational Safety and Health Administration (OSHA) Regulations (Standards-29 CFR), Part 1926 entitled "Safety and Health Regulations for Construction".