

SECTION 32 12 00 – FLEXIBLE/ASPHALT PAVEMENT

PART 1: GENERAL

1.1 PURPOSE OF STANDARDS

- A. The standards set forth in the following specifications are the minimum criteria required by The University of Texas at Dallas, to be used in asphalt pavement design.
- B. Any unusual circumstances or special designs requiring variance from these specifications must be approved, in writing, by a UT Dallas Engineer or Architect prior to construction.

1.2 REFERENCE STANDARDS

- A. The current editions of the applicable American Concrete Institute (ACI) publications, to the extent applicable in each reference.
- B. The current editions of the applicable American Society for Testing and Materials (ASTM) specifications, to the extent applicable in each reference.
- C. The current editions of the applicable Texas Department of Transportation (TXDOT) Pavement Design Guide.

1.3 ENVIRONMENTAL CONTROLS

- A. Rinsing out of the transit mix trucks, washing or wetting of concrete, site cleanup, or other activities related to water at the site shall be in strict conformance with all EPA requirements for the prevention of water runoff to storm water sewers or creeks.

1.4 GENERAL REQUIREMENTS

- A. Walking surfaces shall be designed to be nominally level. Abrupt changes in elevation of walking surfaces shall not exceed ¼". The slope in the direction of travel shall not exceed 1 in 20. The slope perpendicular to the direction of travel shall not exceed 1 in 48.
- B. Only hot mix asphaltic concrete (HMAC) shall be used.
- C. Apply HMAC in dry weather when the pavement and atmospheric temperatures are at a minimum 40° F and anticipated to remain above this temperature for at least 4 hours after application.
- D. The minimum allowable slope of any asphalt pavement shall be 2%.

PART 2: EXECUTION

2.1 SURFACE CONDITIONS

- A. Contractor shall examine areas and conditions under which this work will be provided and correct all conditions detrimental to the timely and proper completion of the work.
- B. Contractor shall not proceed with work until unsatisfactory conditions are corrected and approved by a UT Dallas Engineer or Architect.

2.2 INSTALLATION

A. New Asphalt

1. Subgrade shall be excavated to a minimum depth of 10½”.
2. Install minimum 7” new “flex-base” (type ‘A’) material.
3. Pave with a compacted 2” minimum type ‘B’ HMAC base course.
4. Overlay with compacted 1½” minimum type ‘D’ HMAC surface course to obtain desired grading schematic.

B. Asphalt Patching

1. Pulverize existing failed asphalt surface to a depth of 9” and blend with cement at a rate of:
 - a. 4.5 lbs/sf. parking lots.
 - b. 5.6 lbs/sf. for roads.
2. Remove excess material and compact recycled base to 95% standard density for a minimum thickness of 7”.
3. Tack edges using asphaltic material for bonding.
4. Pave with type ‘D’ HMAC surface course to achieve a compacted minimum 2” thickness to match existing grades.

END OF SECTION 32 12 00