



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

DESIGN REQUIREMENTS

March 31, 2015

3.2 Civil

A. **Paving**

- (1) Use untreated base course under all curbs and gutters. Use untreated base course material under all sidewalks exterior flatwork and paved areas.
- (2) Untreated base course under asphalt paving: Asphalt - 8" minimum compacted base (96%)
- (3) Concrete – curbs, gutters, sidewalks, exterior flatwork – Minimum 6" compacted base (96%) or minimum 4-3/4" crushed gravel.

Untreated Base Course	
Size	% by Weight Paving Sieve
1"	100
1/2"	70 to 100
#4	41 to 68
#16	21 to 41
#50	10 to 27
#200	4 to 13

- (4) Surface course (asphalt) aggregate:

Surface Course (asphalt)	
Size	% by Weight Paving Sieve
1/2"	100
3/8"	70 to 100
#4	50 to 78
#16	30 to 48
#50	18 to 31
#200	7 to 13

- (5) Base course (lower lift) can be 3/4" asphalt if placed in more than 1 lift.
- (6) Construct asphalt paving only when atmospheric temperature is above 50 degree F and underlying base is from moisture. Permit no vehicular traffic for at least 24 hours after laying asphalt pavements.
- (7) Striping paint: State of Utah #780. Spread at the rate of 103-113 sf/gal. Minimum thickness shall be 7 dry mil.
- (8) Tack coat all adjoining materials, i.e. previously constructed asphalt, concrete, etc. except untreated base course.
- (9) Surface smoothness: variation in the finished surface must not exceed 1/8" in 10 ft. in any direction.
- (10) Asphalt shall comply with Marshall Design with voids 1.5% to 3.0%
- (11) Drainage: Slope all asphalt concrete paving surfaces for positive drainage a minimum of 1.5% and preferable 2%.

- (12) Minimum thickness for parking areas: 3". Minimum thickness for road areas and truck traffic is 3" including dumpster access.
- (13) Maximum thickness for lifts: 3"