



CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT
 DESIGN AND CONSTRUCTION MANAGEMENT
 MATERIALS LAB

2018 CITY OF PHOENIX COMPACTION REQUIREMENTS

City of Phoenix Supplements

Trench Excavating, Backfilling and Compaction City Supplement Table 601-3

% Moisture for Trench Backfill Optimum Moisture ±2% (City Supplement 601.3.2 2015)

City Supplement Table 601-3 (2015)				
Minimum Density Required for Trench Backfill				
Backfill Type	Location	Surface to 2' Below Surface	From 2' Below Surface to Top of Initial Backfill	Haunching and Initial Backfill
I	Under any existing or proposed pavement, curb, gutter, sidewalk or, such construction included in the contract, or when any part of the trench excavation is within 2' of the above.	100% for Granular 100% for Non-Granular	95%	95%
II	On any utility easement, street, road or alley right-of-way outside limit (I)	95%	95%	95%
III	Around any structures or exposed utilities	95% in all cases		

Native Subgrade, City of Phoenix Supplement 301 (2015)

% Moisture +2 to -2 % Optimum Moisture (301.3)

301.3 Relative Compaction

(A) Street Pavement Section

- (1) Top 6" Subgrade (under ABC) 100% for Arterial Streets/Major Streets
- (2) Top 6" Subgrade (under ABC) 95% for Collector/Local Streets
- (3) Top 6" Subgrade (under Asphalt/Concrete) 100%

(B) Sidewalks, Curbs, Gutters, ADA Ramps, Driveways, Driveway Entrances.....

- 95%
- (1) Marginally Expansive (340.3.1)..... 90% (Optimum to +3)
- (2) Expansive..... Treat or Remove & Replace

(C) Manholes (Surface to 2' Below Surface)

- 100% (City Supplement Table 601-3 2015)
- (1) Manholes (Under and Around) 95% (City Supplement Table 601-3 2015)

Untreated Base, (ABC) City of Phoenix Supplement 310 (2015)

% Moisture +2 to -2 % Optimum Moisture (310.3)

- (A) Below Asphalt Concrete Pavement..... 100%
- (B) Below Portland Cement Concrete Pavement, Driveways, Curb & Gutter, Sidewalks and Roadway Shoulders..... 95%
- (C) All Other Areas Not Subject to Vehicular Traffic..... 95%

Asphaltic Concrete Paving City of Phoenix Supplement 321 (2015)

Asphalt Base Course, Intermediate and Surface Course Material..... 95%

(Asphalt Cores needed to check gauge calibration and/or at inspectors request) MAG 321.10.1

Table 321-1.1 Asphalt Concrete Mix Temperature at Production Plant		
Type of Asphalt	Minimum Temperature °F	Maximum Temperature °F
Conventional Asphalt (1/2", 3/4", 1-1/2")	285	325
Rubberized Asphalt	290	350

For any pavement courses 2" thick or greater, the atmospheric temperature shall be a minimum of 40 °F and rising.
 For all pavement surface courses less than 2" thick, the surface temperature on which the course is to be placed, shall be a minimum 50 °F and rising. (City Supplement 321.3 2015)

These requirements are for **most** City of Phoenix Projects. Check individual project plans/specs for job specific requirements.