

Inspector Quantlist Report 20240401

Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division III: Subgrade, Subbases, and Bases
 Title: Cement Treated Subgrade

Lot Number:	Offset:
Station:	Lane:
Lift:	

Attribute Numbers	Compliance	Narratives	Reference
0.		All stakeholders have participated in the pre-activity meeting.	Construction Bulletin 02-01
1.		The Contractor is protecting both private and public property i.e.; fences, poles, signs and facilities that are to remain as noted in the plans or special provisions.	2021 Standard Specifications 107.11 pg. 104-106
2.		The area is Blue Staked (Arizona 811) prior to beginning work.	2021 Standard Specifications 107.15 pg. 114
3.		The Hydraulic cement used meets the requirements of Subsection 1006-2 (Certificates of Analysis were submitted or reviewed).	2021 Standard Specifications 302-2.02 pg. 237
4.		Curing seal is Emulsified Asphalt Grade SS-1 (conforming to the requirements of Section 1005).	2021 Standard Specifications 302-2.03 pg. 228
5.		The water used is free from injurious amounts of oil, acid, alkali, clay, vegetable matter, silt or other harmful contaminants.	2021 Standard Specifications 1006-2 pg. 1152
6.		The in-place material to be treated is scarified to the full depth and width of the roadway shown on the project plans.	2021 Standard Specifications 302-3.01 pg. 228
7.		The material to be treated contains no rocks larger than 2.5 inches in any dimension.	2021 Standard Specifications 302-3.01 pg. 228
8.		If a mixing machine is used, the material is windrowed so that it can pass through the mixer.	2021 Standard Specifications 302-3.01 pg. 228
9.		The cement is placed at the required rate and does not vary more than ± 10 % from the rate specified.	2021 Standard Specifications 302-3.02 pg. 228

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10.		The equipment used to distribute the cement is approved by the Engineer.	2021 Standard Specifications 302-3.02 pg. 229
11.		Cement or cement treated material is not spread or mixed when the soil is frozen, when the air temperature is less than 40 degrees F in the shade, or when conditions indicate that the temperature may fall below 40 degrees F within 24 hours. It will also not be placed on frozen subgrade or mixed when the aggregate is frozen.	2021 Standard Specifications 302-3.02 pg. 229
12.		No traffic other than water trucks and mixing equipment were allowed to pass over the spread cement until after completion of the mixing.	2021 Standard Specifications 302-3.02 pg. 229
13.		The mixing is accomplished by a traveling pugmill, or a single or multiple transverse shaft mixers.	2021 Standard Specifications 302-3.03 pg. 229
14.		The equipment used is capable of introducing water and approved admixtures at a controlled rate and continues until the material is uniformly mixed.	2021 Standard Specifications 302-3.03 pg. 229
15.		The moisture content of the completed mixture is within two percent of the optimum moisture content of the material being treated.	2021 Standard Specifications 302-3.03 pg. 229
16.		The in-place material and cement is mixed in a manner that does not create cement balls.	2021 Standard Specifications 302-3.03 pg. 229
17.		The thickness of the compacted layer does not exceed eight inches. Compacted layer shall achieve at least 100% of the maximum density.	2021 Standard Specifications 302-3.04 pg. 229
18.		The initial compaction is done with sheep foot or grid rollers.	2021 Standard Specifications 302-3.04 pg. 229
19.		The final compaction is done with steel wheel or pneumatic tired rollers.	2021 Standard Specifications 302-3.04 pg. 229
20.		The surface of the treated subgrade does not vary by more than 0.04 feet above or below the grade established by the Engineer.	2021 Standard Specifications 302-3.04 pg. 230
21.		No more than two hours elapses between the time water is added to the subgrade and cement, and completion of initial compaction prior to trimming.	2021 Standard Specifications 302-3.05 pg. 230
22.		No more than 2.5 hours elapses between the time water is added to the subgrade and cement, and the completion of final compaction after trimming.	2021 Standard Specifications 302-3.05 pg. 230

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23.		The treated surface is kept moist until a bituminous curing seal is applied.	2021 Standard Specifications 302-3.06 pg. 230
24.		The bituminous curing seal was uniformly applied at an approximate rate of 0.15 gallons per square yard.	2021 Standard Specifications 302-3.06 pg. 230
25.		After the curing seal has been applied, the cement treated subgrade is kept free of heavy equipment and traffic for a period of at least three days. Light construction traffic will be allowed after the curing seal has been placed.	2021 Standard Specifications 302-3.06 pg. 230
26.		When the project plans call for 4 inches or more of aggregate base over the cement treated subgrade, the aggregate base may be used as the curing seal in lieu of a bituminous curing seal. The aggregate base is kept moist for 72 hours	2021 Standard Specifications 302-3.06 pg. 230
27.		Proper sampling procedures are being used.	Materials Testing Manual Ariz 105f Materials Quality Assurance, Sampling Guide Schedule, Appendix C
28.		Quantlist Minimum Frequency is being followed, once a week.	Construction Bulletin 07-01