

PART 1 - GENERAL

- 1.1 SUMMARY .1 This section defines correction to maximum dry density to take into account aggregate particles larger than 19 mm.
- 1.2 REFERENCES .1 American Society for Testing and Materials (ASTM)
- .1 ASTM C127-12, Standard Test Method for Specific Gravity and Absorption of Coarse Aggregate.
 - .2 ASTM D698-1221, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
 - .3 ASTM D1557-12, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
 - .4 ASTM D4253-00 (2006), Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table.
- 1.3 DEFINITIONS .1 Corrected maximum dry density is defined as:
- .1 $D = (D1 \times D2) / ((F1 \times D2) + (F2 \times D1))$
 - .2 $D = (F1 \times D1) + (0.9 \times D2 \times F2)$
 - .3 Where: D = corrected maximum dry density kg/m³.
 - .1 F1 = fraction (decimal) of total field sample passing 19 mm sieve
 - .2 F2 = fraction (decimal) of total field sample retained on 19 mm sieve (equal to 1.00 - F1)
 - .3 D1 = maximum dry density, kg/m³ of material passing 19 mm sieve determined in accordance with Method A of ASTM D698.
 - .4 D2 = bulk density, kg/m³, of material retained on 19 mm sieve, equal to 1000G where G is bulk specific gravity (dry basis) of material when tested to ASTM C127.
 - .4 For free draining aggregates, determine D1 (maximum dry density) to ASTM D4253 dry method when directed by Departmental Representative.
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<u>1.4 MEASUREMENT FOR PAYMENT</u>	.1	All work covered under this specification is considered to be incidental to the project and will not be measured for payment.
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PART 2 - PRODUCTS

<u>2.1 NOT USED</u>	.1	Not Used.
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PART 3 - EXECUTION

<u>3.1 NOT USED</u>	.1	Not Used.
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