GENEVA ROCK PRODUCTS, INC.

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AGGREGATE SUBMITTAL

Report of Physical Properties and Aggregate Target Submittal

| GRP Material Description: 3/4 APWA | Report Date: January 24, 2024 | |
|--|-------------------------------|--|
| GRP Material Code: GRAC | Reviewed by: Dan McDaniel | |
| Source Location/Code: Hansen Pit North / 527 | Report No. 527GRAC00124 | |

| TEST RESULTS | | | | | | |
|----------------|---------------------|---------------------------------|-------|-----------|--|--|
| Standard | PHYSICAL PROPERTIES | | | Test Spec | | |
| ASTM C 29 | Unit | Unit Weight, lbs./cu.ft. = | 112.0 | | | |
| AASHTO T19 | Weight | Voids, % = | 30 | | | |
| | _ | ☐ Jigged ☐ Loose ✓ Rodded | | | | |
| ASTM D1557 | Modified | Max. density, lbs./cu.ft. = | 131.3 | | | |
| AASHTO T180 | Proctor | Optimum Moisture, % = | 7.4 | | | |
| ASTM D698 | Standard | Max. density, lbs./cu.ft. = | 128.2 | | | |
| AASHTO T99 | Proctor | Optimum Moisture, % = | 8.7 | | | |
| ASTM D4318 | Liquid Limit | Liquid Limit= | 0 | | | |
| AASHTO T89/90 | Plastic Limit | Plastic Limit= | 0 | | | |
| | Plasticity Index | Plasticity Index= | NP | | | |
| ASTM C131 | L.A. | Small Coarse Loss, % = | 25 | | | |
| AASHTO T96 | Abrasion | Grading/Revolutions, = | B/500 | | | |
| ASTM C535 | L.A. | Large Coarse Loss, % = | | | | |
| | Abrasion | Grading/Revolutions, = | | | | |
| | Combined | Bulk Specific Gravity (dry) = | 2.534 | | | |
| ASTM C 128/127 | Specific | Bulk Specific Gravity, SSD = | 2.564 | | | |
| AASHTO T84/85 | Gravity & | Apparent Specific Gravity = | 2.615 | | | |
| | Absorption | Absorption, % = | 1.2 | | | |
| | Coarse | Bulk Specific Gravity (dry) = | | | | |
| ASTM C 127 | Specific | Bulk Specific Gravity, SSD = | | | | |
| AASHTO T85 | Gravity & | Apparent Specific Gravity = | | | | |
| | Absorption | Absorption, % = | | | | |
| ASTM D2419 | Sand | Sand Equivalent, % = | 35 | | | |
| AASHTO T176 | Equivalent | | | | | |
| | Soundness | Coarse Soundness Loss, % = | | | | |
| ASTM C 88 | | Sodium No. of Cycles = | | | | |
| AASHTO T104 | Soundness | Fine Soundness Loss, % = | 1.0 | | | |
| | | Sodium No. of Cycles = | 5 | | | |
| ASTM C 1252 | Fine Aggregate | Uncompacted Voids, % = | | | | |
| AASHTO T304 | Angularity | Method C (as received material) | | | | |
| ASTM C40 | Organic | Coarse Aggregate, % = | | | | |
| AASHTO T21 | Impurities | Fine Aggregate, % = | | | | |
| ASTM C142 | Clay / Friable | Coarse Aggregate, % = | | | | |
| AASHTO T112 | Particles | Fine Aggregate, % = | | | | |
| ASTM C123 | Lightweight | Coarse Aggregate, % = | | | | |
| AASHTO T113 | Pieces | Fine Aggregate, % = | - | | | |
| ASTM D1883 | CBR | Surcharge = 10 lbs CBR @ 0.1"= | 60 | | | |
| AASHTO T193 | | Swell% = 0.0% CBR @ 0.2"= | 115 | _ | | |
| AASHTO 335 | Fractured Face | 1 or 2 Faces = | 1 | 2 | | |
| | | Fractured Face, % = | 99 | 95 | | |
| ASTM D2487 | Soil Classification | Group Symbol = | | | | |
| | | Group Name = | | | | |

| SIEVE ANALYSIS | | | | | |
|---------------------------|----------------------|-------|--|--|--|
| ASTM C136 AA | ASTM C136 AASHTO T27 | | | | |
| | Target % | | | | |
| Sieve Size | Passing | Spec. | | | |
| 300 mm (12") | | | | | |
| 250 mm (10") | | | | | |
| 225 mm (9") | | | | | |
| 200 mm (8") | | | | | |
| 150 mm (6") | | | | | |
| 125 mm (5") | | | | | |
| 100 mm (4") | | | | | |
| 75.0 mm (3") | | | | | |
| 63.0 mm (2-1/2") | | | | | |
| 50.0 mm (2") | | | | | |
| 37.5 mm (1-1/2") | | | | | |
| 25.0 mm (1") | | | | | |
| 19.0 mm (3/4") | 100 | | | | |
| 12.5 mm (1/2") | 90 | | | | |
| 9.5 mm (3/8") | 81 | | | | |
| 6.3 mm (1/4") | | | | | |
| 4.75 mm (No.4) | 59 | | | | |
| 2.36 mm (No.8) | 40 | | | | |
| 2.00 mm (No.10) | 32 | | | | |
| 1.18 mm (No.16) | 29 | | | | |
| 0.600 mm (No.30) | | | | | |
| 0.425 mm (No.40) | 21 | | | | |
| 0.300 mm (No.50) | 19 | | | | |
| 0.180 mm (No.80) | | | | | |
| 0.150 mm (No.100) | 16 | | | | |
| 0.075 mm (No.200) | 10.8 | | | | |
| ASTM D422 | | | | | |
| Hydrometer = | | | | | |
| ASTM C566 AASHTO T255 | | | | | |
| Moisture Content, % = | | | | | |
| ASTM C136 AASHTO T27 | | | | | |
| Fineness Modulus (FM) = | | | | | |
| AASHTO M145 | | | | | |
| Classification of Soils = | A1A | | | | |
| ASTM D4791 Ratio = | 5:1 | | | | |
| Flat & Elongated, % = | 0 | | | | |
| | | | | | |

Soil Description &

Identification

ASTM D2488

Group Symbol =

Group Name =