

BuildingName
The Description of the Project
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SPECIFICATION DIVISION 31

NUMBER SECTION DESCRIPTION

DIVISION 31 EARTHWORK

SECTION 312323 - FILL

END OF CONTENTS TABLE

DIVISION 31 EARTHWORK
SECTION 312323 - FILL

PART 1 - GENERAL

THIS SECTION SPECIFIES ENGINEERED COMPACTED GRANULAR FILL MATERIAL. USE ONLY WHEN FILL MUST BE ENGINEERED, NOT FOR ORDINARY BELOW-SLAB USE.

1.1 SUMMARY

- A. Extent of engineered granular fill indicated on drawings.
- B. Type of engineered granular fill is compacted sand and gravel, installed in layers and tested for compliance with requirements.

1.2 QUALITY ASSURANCE

- A. Employ an approved Geotechnical Testing Laboratory to evaluate and confirm compaction effort by testing for moisture content, and density of materials in place. For each 6 inch lift, test 6 locations at intervals not exceeding 25 feet. Immediately obtain test results, and re-compact and re-test areas not conforming to specified compaction requirements prior to placing additional fill materials.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Comply with the following Michigan Department of Transportation "1984 Standard Specifications for Construction" Section 8.02.06 for Granular Material Class I:
 - 1. Sieve Analysis: ASTM C 136
 - 2. Total Percent Passing - Dry Weights:
 - a. For 2-inch: 100 percent.
 - b. For 1/2-inch: 45-85 percent.
 - c. For No. 4: 20-85 percent.
 - d. For No. 30: 5-3 percent.
 - 3. Percent Loss by Washing - Dry Weights: ASTM C 117; 0-5 percent.
- B. Provide Granular Materials consisting of one, or any combination of, the following:
 - 1. Sand; gravel; crushed stone; foundry sand; iron blast-furnace slag; reverberatory-furnace slag.
 - 2. Provide foundry sand free of combustible materials and containing negligible quantities of iron.
- C. The following materials are not permitted:
 - 1. Cementitious shale.
 - 2. Crushed concrete.

PART 3 - EXECUTION

3.1 PLACEMENT AND COMPACTION

- A. Place fill materials in layers not exceeding 6 inches and compacted with portable pneumatic tampers and vibratory compactors to not less than 95 percent of maximum dry density as determined in accordance with ASTM D 1557 (modified Proctor).

END OF SECTION 312323