

SECTION 323253
LANDSCAPE STONE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:

1. Outcropping Stone
2. Dry Laid Stone Walls
3. Drainage Aggregate
4. Compacted Aggregate Base
5. Rip Rap

- B. Related Sections include the following:

1. Division 2 Section Earthwork for soil materials, excavating, backfilling, and site grading.

1.3 REFERENCES

- A. Michigan Department of Transportation (MDOT), Standard Specifications for Construction current edition.

1.4 SUBMITTALS

- A. Submit product samples for all types of landscape stone.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Outcropping Stone: Natural quarried dolomitic stone, Provide the following type, size range, and color:

1. Type: Split Face or Weathered Edge
2. Size: 3'-5' length, 8"-12" face height, 30"-36" wide
3. Color: Lake Michigan Limestone natural color range, or University approved equal.

- B. Dry Laid Stone Walls: Natural quarried dolomitic stone, Provide the following type, size range, and color
 - 1. Type: Split Face or Weathered Edge.
 - 2. Size: 1'-3' length, 6"-12" face height, 18"-24" wide
 - 3. Color: Lake Michigan Limestone natural color range, or University approved equal.
- C. Compacted Aggregate Base: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; MDOT 22A, as defined in Michigan Standard Specifications for Construction.
- D. Drainage Aggregate:: Clean $\frac{3}{4}$ " – 1 $\frac{1}{2}$ " diameter washed stone.
- E. Geotextile Fabric for Drainage Backfill:
 - 1. Separation Fabric: 4oz. minimum/square yard, non-woven geotextile fabric.
 - a. TerraTex SD, as manufactured by Hanes Geo Components, or University approved equal.
- F. Rip Rap:
 - 1. Complying with MDOT 813 and 916 except as herein specified:
 - a. Stone to be sound, tough, and durable rock or stone; broken concrete pieces are not acceptable.
 - b. Stone to be washed, native, angular river stone or rock.
 - c. Smaller pieces of angular river stone or rock must be used for filling spaces between rip rap stone.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Grade slope bank to a maximum slope of 1 horizontal to 1 vertical.
- B. Compact subgrade to 95% of Maximum Unit Weight.
- C. Place and compact aggregate base to 95% Maximum Unit Weight.
- D. Place and secure geotextile fabric as shown on the Plans.
- E. Place backfill aggregate inside geotextile fabric in \pm 12 inch wide trench, hold down 4" from top of stone.
- F. Tolerance: \pm 0.2 feet from plan grade.

3.2 INSTALLATION

- A. Landscape Stone: Review placement of stone with Owner's Representative.
- B. Vertical joints between outcropping stone courses of stone shall overlap a minimum of 1 foot.

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- C. Courses of stone shall be stepped back or forward as shown on Drawings or as directed by the Owner's Representative in the field.
- D. Stone shall be stacked in irregular, natural patterns. Uniform or running bond stacking will be rejected.
- E. Shim stone as necessary to prevent any rocking motion between courses.

3.3 CLEAN UP

- A. All excess and waste material shall be disposed of legally off-site.
- B. Upon completion of Work, leave areas in clean condition.

END OF SECTION 323253

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