

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Stone Dust Surfacing.
- B. Stone Mulch Surfacing.

1.2 RELATED REQUIREMENTS

- A. Section 31 2200 – Earthwork: Preparation of site paving, compacted subbase for paving, and base courses.

1.3 ACTION SUBMITTALS

- A. CTHPB Documentation Submittals: Comply with Division 01 Section “Sustainable Design Requirements” and provide the following in addition to other action submittals:
 - 1. Product Data for Credit 5d: For adhesives and sealants, documentation including printed statement of VOC content.
 - 2. Product Data for Credit 5d: For paints and coatings, including printed statement of VOC content.
 - 3. Product Data for Credit d8: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
 - 4. Product Certificates for Credit d10: For products and materials required to comply with requirements for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
 - 5. Certificates for Credit d13: Chain-of-custody certificates indicating that products specified to be made from certified wood comply with forest certification requirements. Include documentation that manufacturer is certified for chain of custody by an FSC-accredited certification body. Include statement indicating cost for each certified wood product.
 - 6. Laboratory Test Reports for Credit b4: For composite wood and agrifiber products, documentation indicating that products comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Verification:

- 1. For each stone type indicated. Include at least two samples in each set for each type of stone, exhibiting extremes of the full range of color and other visual characteristics expected in completed Work. Samples will establish the standard by which stone provided will be judged.
- 2. Weed Control Barrier: 12 by 12 inches (300 by 300 mm).
- 3. Edging Materials and Accessories: Manufacturer's standard size, to verify color selected.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of aggregate through one source from a single manufacturer.
- B. Pre-installation conference: Conduct conference at project site to comply with requirements in Section 01 3000 - Administrative Requirements.

PART 2 PRODUCTS

2.1 STONE SOURCE

- A. Varieties and Sources: Obtain materials of each type from same source for the entire project. Approval of stone supplier is required prior to purchase. Subject to compliance with requirements, provide stone of one of the following varieties from the following source or equivalent:
- B. STABILIZED STONE DUST SURFACING
 - 1. Stabilized Pathway Aggregate: Premixed blend of crushed aggregate and binder.
 - a) Basis-of-Design Product: Subject to compliance with requirements, provide "Stabilized Stonedust" Aggregate as manufactured by Read Custom Soils, 158 Tihonet Road, Wareham, MA 02571 www.readcustomsoils.com and supplied by or comparable product.
 - 2. Materials:
 - a) Binder: Powdered organic binder designed to be blended with crushed aggregate.
 - 1) List of Manufacturers:
 - (a) Envirobond Products Corporation, 6191-2100 Bloor Street West Toronto, Ontario Canada M6S 5A5 (866) 636-8476 www.organic-lock.com
 - (b) Stabilizer Solutions, 333 South 28th Street, Phoenix, AZ 85034 (800) 336-2468, www.stabilizersolutions.com.
 - b) Stone Dust: Crushed, sound limestone screenings complying with the following gradation:
 - 1) Color: As selected by Landscape Architect from manufacturer's full range.

Sieve (ASTM D422)	Percent Passing
3/8-inch	100
#4	80 to 100
#8	65 to 90

#16	40 to 60
#30	25 to 55
#50	15 to 35
#100	10 to 20
#200	5 to 15

2.2 STONE DUST SURFACING

- A. ~~Stone Dust: Crushed, sound stone screenings complying with the following gradation:~~
- a. ~~Sieve (ASTM D422) — Percent Passing~~
 - a. ~~3/8 inch — 100~~
 - a. ~~1/4 inch — 95 to 99~~
 - a. ~~#4 — 90 to 95~~
 - a. ~~#10 — 45 to 55~~
 - a. ~~#50 — 15 to 20~~
 - a. ~~#100 — 10 to 15~~
 - a. ~~#200 — 8 to 12~~
- B. ~~Sand for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.~~
- C. ~~Timber Edging:~~
- 1. ~~Timber Species and Grade: Southern pine; No. 2, SPIB.~~
 - 2. ~~Moisture Content: Provide timber with 19 percent maximum moisture content at time of dressing or provide timber that is unseasoned at time of dressing but with 19 percent maximum moisture content at time of installation.~~
 - 3. ~~Dressing: Provide timber that is rough sawn (Rgh) unless otherwise indicated.~~
 - 4. ~~Preservative Treatment: Pressure treat materials with waterborne preservative according to UC4a for items in contact with the ground.~~
 - a) ~~Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.~~
 - 1) ~~Use process that includes water repellent treatment.~~
 - 2) ~~After treatment, redry materials to 19 percent maximum moisture content.~~
 - b) ~~Mark treated materials with treatment quality mark of an inspection agency approved by ALSC's Board of Review.~~
 - 5. ~~Timber Connectors:~~
 - a) ~~Round steel bars complying with ASTM A 575, Grade M 1020.~~
 - b) ~~Hot dip galvanize steel connectors to comply with ASTM A 123/A 123M or ASTM A 153/A 153M.~~

2.3 STONE MULCH SURFACING

- A. ~~Riverwashed Stone Mulch: Screened, off-site crushed stone free of iron, fines, dust (less than 2 percent passing the No. 200 sieve), organic materials, snow, ice, and other unsuitable materials as approved by Landscape Architect.~~
- 1. ~~Size: 3/4-inch (19 mm) diameter. Mulch shall be washed free of all fines.~~
 - 2. ~~Color: Readily available natural gravel color range as approved by Landscape Architect.~~
- B. ~~Stone Mulch Edge Restraints: Standard commercial-aluminum angle edging, rolled edge, fabricated in sections of standard lengths.~~

1. Basis-of-Design Product: Subject to compliance with requirements, provide “Perma-Strip” angled aluminum landscape edging as manufactured by Permaloc Corporation or comparable product by a licensee of one of the following:
 - a) Brickstop Corporation.
 - b) Curv-Rite, Inc.
 - c) Sure-loc Edging Corporation.
2. Edging Size: 3/16 inch (3.2 mm) thick by 6 inches (102 mm) tall by 1-1/2 inches wide.
3. Stakes: 18 inches (300 mm) long, 3 minimum per 8-foot section.
4. Accessories: Standard tapered ends, corners, and splicers.
5. Finish: Electrostatically-applied baked on paint.
6. Color: Black.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 STONE DUST SURFACING

- A. Place surface course on base course free of mud, frost, snow, or ice.
- B. On prepared base course, place surface course as follows:
 1. Install separation geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
 2. Place base course material over subbase course under hot-mix asphalt pavement.
 3. Shape surface course to required crown elevations and cross-slope grades.
 4. Place surface course, 6 inches (150 mm) or less, in compacted thickness in a single layer.
 5. Place surface course that exceeds 6 inches (150 mm) in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick.
 6. Compact surface course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.
- C. Pavement Shoulders: Place shoulders along edges of surface course to prevent lateral movement. Construct shoulders, at least 12 inches (300 mm) wide, of satisfactory soil materials and compact simultaneously with surface layer to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

3.3 STONE MAINTENANCE STRIP INSTALLATIONS

- A. Steel Edging: Install steel edging where indicated according to manufacturer's written instructions. Anchor with steel stakes spaced approximately 30 inches (760 mm) apart, driven below top elevation of edging.
- B. Install weed-control barriers before mulching according to manufacturer's written instructions. Completely cover area to be mulched, overlapping edges a minimum of 6 inches (150 mm) and secure seams with galvanized pins.

1. Mulch backfilled and compacted surfaces areas to receive stone mulch. Apply 4-inch (100-mm) average thickness of mineral mulch over whole surface, and finish level with adjacent finish grades.

3.4 CLEANUP AND PROTECTION

- A. During installation, keep adjacent paving and construction clean and work area in an orderly condition.
- B. After completing installation of stone materials, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

3.5 DISPOSAL

- A. Remove surplus stone materials and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

END OF SECTION