

SECTION 32 14 13 - CONCRETE PAVERS

PART 1 GENERAL

1.01 DESCRIPTION

- A. Provide interlocking concrete unit paving as shown and specified. The work includes:
 - 1. Prest interlocking concrete unit paving over a flexible base.
 - 2. Edging (Mortar paver on reinforced concrete footing)

- B. Related work:
 - 1. Section 31 20 00- Earth Moving
 - 2. Section 32 13 13- Concrete Paving Joint Sealants

1.02 QUALITY ASSURANCE

- A. Comply with Section 01 40 00 quality requirements.

- B. Installation: Performed only by skilled workmen with satisfactory record of performance on completed projects of comparable size and quality.

- C. Sample panel: Before starting interlocking concrete unit paving, provide a sample panel using materials, patterns, and joints indicated for project work. Build panel at the site of full thickness and approximately 4' x 4'. Provide the range of color, texture, and workmanship, proposed for the work. Correct and rebuild sample panel until Landscape Architect's acceptance of the work. Retain panel during construction as a standard for completed paving work.
 - 1. The approved sample panel may be a portion of the work and remain in place. Location as directed by the Landscape Architect.
 - 2. Provide a sample panel for each type of interlocking concrete unit paving required.

1.03 SUBMITTALS

- A. In accordance with section entitled "Shop Drawings, Product Data and Samples." Two samples of paving stones shall be submitted to the Landscape Architect to indicate colors to be supplied on this job. Colors to be selected from manufacturers available paving stone colors.

- B. Submit manufacturer's product data and installation instructions for interlocking concrete paver units.

- C. Submit manufacturer's certification that paver units comply with specified material and physical requirements.

- D. Submit material certificates for base and bedding materials.

1.04 PRODUCT HANDLING

- A. Paving stones shall be delivered and unloaded at jobsite in metal strapped cubes in such a manner that no damage occurs to the product during hauling, handling or unloading at the jobsite. Strapped cubes shall be raised off the ground and covered with plastic to prevent staining or contamination of paver.
- B. Store loose granular materials in a well-drained area on a solid surface to prevent mixing with foreign materials.

1.05 PROJECT CONDITIONS

- A. Review installation procedures and coordinate paving work with other work affected by the interlocking concrete unit paving work.
- B. Cold weather:
 - 1. Do not use frozen materials or materials mixed or coated with ice or frost.
 - 2. Do not build on frozen work or wet, saturated or muddy subgrade. Remove and replace paving damaged by frost or freezing.
- C. Protect partially completed paving against weather damage when work is not in progress.
- D. Provide temporary barricades and warning lights as required for protection of project work and public safety.
- E. Protect adjacent work from damage, soiling, or staining during paving operations.

PART 2 PRODUCTS

2.01 PRODUCT INFORMATION

- A. All interlocking concrete paving stones shall conform to ASTM C-936-83 "Standard Specification for Solid Concrete Interlocking Paving Units." Pavers shall be concrete pavers by 'Techobloc Pavers'. Sizes, colors and models, as per plans.
 - 1. Pavers shall have a minimum compressive strength of 8,000 psi. and a maximum absorption of 5% when tested in accordance with ASTM C-140.
 - 2. Materials used to manufacture interlocking concrete paving stones shall conform to the following:
 - a. Cement-ASTM C-150 Portland Cement Type II
 - b. Aggregates-ASTM C-33 (washed, graded sand and limestone, no expanded shale or lightweight aggregates) Colored aggregates as per selected sample.
 - c. Custom colors, as per plans.

PART 3 EXECUTION

3.01 PAVER CONDITIONS

- A. Pavers shall be free of foreign materials before installation. Pavers showing signs of efflorescence or bloom due to soil, water contamination or improper manufacturing shall be discarded.

3.02 INSTALLATION: BASE MATERIALS

- A. Bedding and leveling course:
 - 1. Obtain Landscape Architect's inspection and acceptance of finished base course before placing bedding, leveling course materials.

3.03 PAVER LAYOUT

- A. Field measure all areas to receive pavers.
- B. Installation should start from the center of each panel to the outer edges. Adjust paver courses to prevent coursing less than 4" wide at course parallel to concrete bands or edge.

3.04 PAVER INSTALLATION

- A. Paving work shall be plumb, level and true to line and grade; shall be installed to properly coincide and align with adjacent work and elevations. (All edges must be restrained to secure the perimeter stones and the sand laying course. Provide walls, curbs or steel edging at exterior courses.)
- B. Paving stones should be installed hand tight and level on the undisturbed sand laying course. String lines should be used to hold pattern lines true.
- C. Where applicable, adjust overall nominal dimensions shown on plans to reduce cutting of pavers where they abut planting or lawn areas.
- D. Where pavers abut existing pavement or concrete curbs, prepare the existing pavement as required to create a neat and consistent joint between the two paving materials. Chip or grind concrete as required. Maximum sand joint 1/8".
- E. The completed paving stone installation should be cleaned and washed down to provide a finished workmanlike installation.
- F. All surface utilities should be encased in concrete to set stones against.
- G. Where abrupt grade changes occur in paving; bend, cut, file recess and/or weld metal edging as required to conceal metal edging below pavers.
- H. Paver panels as shown are designed to eliminate cutting pavers at edges. Verify actual dimensions and report any variations to Landscape Architect. Paver coursing shall only be altered at the direction of the Landscape Architect.
- I. Edging to be continuous around all edges of pavers.

3.05 PAVER CUTTING

- A. Cutting of paving stones may be done with diamond tip masonry saw and/or laser only. Paving stones to be cut with laser only in cul de sac. The cutting of the pavers on this project shall be made with a masonry saw as per manufacturer's recommendations.

3.06 SITE CONDITIONS

- A. Paving contractor shall protect and be responsible for all finished surfaces surrounding his work, such as adjacent walls, window frames, glass, etc.

3.07 QUALITY

- A. Quality workmanship shall be strictly high grade in accordance with best practices of the trades.

END OF SECTION