

SECTION 32 15 40
CRUSHED STONE PAVING

PART 0 - GENERAL

0.0 RELATED DOCUMENTS:

- . Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

0.0 DESCRIPTION OF WORK:

- . The extent of work in this Section includes the provision and installation of the following paving materials, base foundations and appurtenances required for installation.
- . The general extent of work for this Section is shown on the drawings and includes, but is not limited to, the following:
 - 0. Infield Fines.
 - 0. Header Board.
 - 0. Aggregate Base.

0.0 QUALITY ASSURANCE:

- . All manufactured items shall be inspected and approved upon delivery.
- . Protect from damage and intrusion of deleterious materials during delivery, handling, storage, and installation.
- . Materials Source: Sources of materials specified herein shall not be changed during the course of work without review and written acceptance by the Owner's Representative.

0.0 SUBMITTALS:

- . Contractor shall submit a one (1) quart sample indicating variation of size and color of the following:
 - 0. Infield fines mixture.
 - 0. Infield clay mixture.

0.0 DELIVERY, STORAGE, AND HANDLING:

- . Store stone paving material in a secure location. Coordinate with General Contractor for available stockpile location.

0.0 PROJECT CONDITIONS:

A. Protection of Work: Protect work from trespass until paving has cured.

PART 0 - PRODUCTS

0.0 SAND AND CLAY MATERIALS:

. Suppliers:

- 0. Sand: TMT Enterprises, Inc., San Jose, CA (408) 432-9040 as specified unless otherwise noted, or equal. Contact: Matt Moore.
- 0. Fines and Clay: Ewing Irrigation and Landscape Supply, Sacramento, CA (916) 383-2400 as specified unless otherwise noted, or equal. Contact: Jim Barbuto.

. Infield Fines and Clay Mix:

- 0. Mix shall be free of rocks, debris, vegetation, clay balls, foreign materials, etc. Infield mixes shall be sterilized to eliminate the possibility of any growth of vegetation.
- 0. Infield Fines: "DuraEdge Infield Fines" by DuraEdge Products, Inc. or equal.
 - . The composition of the mix shall be achieved using mechanical blending equipment prior to delivery to the site and shall be as follows:
 - 0) Total sand content shall be 70-75 percent.
 - 0) The combined amount of sand retained on the medium, coarse and very coarse sieves shall be greater than or equal to 50 percent.
 - 0) The combined amount of silt and clay shall be 25-30 percent.
 - 0) The ratio of silt divided by clay, otherwise known as the SCR, shall be 0.5 – 1.0.
 - 0) No particles greater than 3 millimeters.
 - 0) Equal to or less than 5 percent of particles shall be retained on the 2 millimeter.
- 0. Warning Track: "DuraTrax CO Lava Warning Track" by DuraEdge Products, Inc. or equal.
 - . Warning Track shall be clean, crushed red lava rock resulting in a mix that is red in color, having a yield of approximately 0.9 tons per cubic yard and possessing the following particle size analysis:

Sieve Size	Range of % Passing
3/8"	100
No. 4	90-100
No. 8	60-80
No. 16	45-60
No. 30	30-50
No. 50	20-35
No. 100	10-25
No. 200	5-15

4. Pitcher's Mound Mix: 100 percent, high-density pure virgin clay; "DuraPitch ProLoc Block" by DuraEdge Products, Inc. or equal.
 - a. Color: Reddish brown.
 - b. Pitching mound and batter's box clay is pre-compressed clay blocks that are reddish brown in color and possessing the following particle size analysis:
 - 1) Total sand content shall be less than 15 percent.
 - 2) The overall clay/silt content shall be greater than 85 percent.
 5. Home Plate and Bases Clay: 100 percent pure virgin clay blocks; "DuraPitch ProLoc Block" by DuraEdge Products, Inc. or equal.
 - a. Color: Reddish Brown.
 - b. Pitching mound and batter's box clay is pre-compressed clay blocks that are reddish brown in color and possessing the following particle size analysis:
 - 1) Total sand content shall be less than 15 percent.
 - 2) The overall clay/silt content shall be greater than 85 percent.
 6. Bases Clay: "TMT Pro-Grade Screened Clay."
- C. Sports Field Conditioner: ProSlide Calcined Clay Conditioner as supplied by DuraEdge Products, Inc., or equal.
- D. Aggregate Base: Shall be coarse aggregate for regular weight concrete. Aggregate shall be hard, durable, uncoated, graded, cleaned and screened crushed rock or gravel conforming to Class II aggregate base per Caltrans Standard Specifications. Crusher-run stone or bank-run gravel will not be permitted.

PART 3 - EXECUTION

3.1 AGGREGATE BASE ROCK

- A. Install Class II aggregate base rock to depth and compaction as detailed on Drawings.
- B. Place aggregate in maximum 6-inch layers and compact to specified density.
- C. Level and contour surfaces to elevations and gradients indicated.
- D. Add small quantities of fine aggregate to coarse aggregate as appropriate to assist compaction.
- E. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.
- F. Use mechanical tamping equipment in areas inaccessible to compaction equipment.
- G. Tolerances:

1. Flatness: Compaction testing will be performed in accordance with ASTM D1557.
0. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at no cost to Owner.

0.0 INFIELD CLAY MIX AT HOME PLATE AND BASES

- . Home Plate: Excavate evenly designated infield areas and lay a ½ - inch course of loose clay and compact. Lay clay bricks across entire area and alternate brick joints in courses. Bricks to be worked together to bond and hand tamp. Apply ½-inch layer of loose clay to cover and finish with fines layer.

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- . **Infield Skin:** Excavate evenly designated infield areas and lay loose clay in 2-inch lifts and compact. Lay additional lifts to achieve 4-inches of clay and compact.

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- A. Water **as needed** and compact with 1,000 to 3,000-pound roller **per manufacturer recommendation**.

- A. Spread additional material, roll and compact to establish even finished grade at specified elevation.

1.1 INFIELD FINES AND WARNING TRACK MIX

- . Spread infield fines mix evenly where shown in drawings and screed in 2-inch lifts. Thoroughly water each lift until the entire depth is moist.

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- . ~~Roto-till specified sports field conditioner into the top 3-inches of fines at a rate of 1.0 ton per 1,000 square feet.~~

- . Compact with a 1,000 to 3,000-pound roller after grading and wetting final lift.

1.1 SPORTS FIELD CONDITIONER

- . As specified for infield fines mix.

1.1 PITCHER'S MOUND MIX

- . Apply the pitcher's mound clay mix at 2-inch lifts, tamp, compact and repeat.
- . Compact with a 1,000 to 3,000-pound roller after grading and wetting final lift.
- . Fill in back and sides of sloping to the edge of the circle.

1.1 TOLERANCES

- . Vertical deviation from the specified lines, grades and detail cross sections shall not exceed 0.04 foot for all surfacing specified in this Section.

END OF SECTION