



# Mesa Union School Elementary Playground Paving Project

Located at 3901 N. Mesa School Road

Somis, CA 93066

July 30, 2019

## Specifications

### #1 Elementary Playground Paving Project

**Work required under Project #1:** Supply all materials and labor for the removal and replacement of 25,122 sq. ft. of existing asphalt concrete playground area as specified in this specification document.

#### **Scope of work:**

#### **Grade Control**

- Establish and maintain the required lines and grades, including crown and cross-slope, for each course during construction operations.

#### **Materials and Quality Control**

- Aggregate base: use sound, angular crushed stone, crushed gravel, or crushed slag ASTM D 1241, Type 1, and for subgrade, provide base rock compacted to not less than 95 percent of maximum laboratory density ASTM D 1557, Method D.
- Do not apply when base surface is wet or contains an excess of moisture which would prevent uniform distribution and the required penetration.
- Place aggregate base material on compacted layers 4 inches thick. Compaction shall be obtained by use of a power roller weighing not less than 10 tons.
- Areas that show a pronounced deflection under heavy construction traffic will require removal of the material and replacement with suitable subgrade soil material such as compacted, crushed stone or compacted, bituminous-concrete base.
- Uniformly apply "Prime Coat" (cut-back liquid asphalt, medium -curing Type:ASTM D2027, Grade AR-800 or PG 64-28 as defined in the Caltrans Specifications Table 203-1.2(A)through Table 203-1.4(A), at a rate of 0.20 to 0.25 gallons per square yard over compacted and clean sub-base surface, do not flood surface. Allow prime coat to cure and dry.

- Apply “Tack Coat” SS-1 Emulsified Asphalt to contact surfaces of curbs, gutters, manholes, and other structures projecting into or abutting asphalt concrete pavement and allow surfaces to dry until material is at condition of tackiness to receive pavement.
- Furnish certification, in written form, from the asphalt concrete producer, confirming the conformance of the following with the requirements of the specification for materials proposed for incorporation into the work and asphaltic concrete mix design formulae.
- Asphalt concrete paving provide 3/8” aggregate with PG 6416 oil, 2 1/2” thick, to be applied with vibrating screed to produce a smooth finish. Return to original grade.
- Carefully make “Joints” between old and new pavements, or between successive day’s work, to ensure a continuous bond between adjoining work. Clean contact surfaces free of sand, dirt, or other objectionable material and apply tack coat.
- Compact the mix by use of a power roller weighing not less than 10 tons and provide enough power rollers to obtain the required pavement density and begin rolling operations as soon after placing the mixture will bear weight of roller without excessive displacement. Do not permit heavy equipment, including rollers to stand on finished surface before it has thoroughly cooled or set. Compact mixture with hot hand tampers or vibrating plate compactors in areas inaccessible to rollers. Accomplish breakdown or initial rolling immediately following rolling of transverse and longitudinal joints and outside edges. Follow with second rolling as soon as possible, while mixture is hot and in condition for compaction. Continue second rolling until mixture has been thoroughly compacted. Next, preform finish rolling while mixture is still warm enough for removal of all roller marks.
- The surface shall not vary more than 3/4” from the established grade. Minimum pavement cross-slope to be 2 percent or 1/4 inch per foot to preclude standing water and ensure rapid drainage.

### **Protection**

- Throughout the entire project provide barricades and warning devices as required to protect the work site and the general public.
- After final rolling, do not permit vehicular traffic on asphalt concrete until it has cooled and hardened, and in no case sooner than 6 hours.

### **Flood Test**

- A water test shall be made in the presence of the district representative or inspector of record. The flooding shall be done by a water tank truck. All depressions, where water ponds to a depth of more than 1/8 inch shall be filled, or the slop shall be corrected to provide proper drainage. The edges of the fill shall be feathered and smoothed so that the joint between the fill and the original surface is invisible. All corrected work of the asphalt concrete paving be of the same mix design.

### **Striping**

- The contractor shall reestablish and repaint (minimum two (2) coats to the same existing line widths, colors, symbol design colors and graphics to the satisfaction of the Owner.
- Provide factory mixed, quick drying and non-bleeding epoxy modified acrylic latex paint, manufactured specifically for asphalt and concrete traffic surfaces in accordance with CARB rules in effect at the time of application. Manufacture, Frazee No. 502, Dunn-Edwards W-801-6 or equal.

## Details

- Install a 24”wide by 79 ft. long of concrete drainage “V-gutter” at the west and north edge between the new asphalt and the rubberized play area. Grade the drainage “V-gutter” to divert water to the north and south of the rubberized play area.
- Provide a level transition from all existing concrete onto new asphalt.
- Provide two concrete downspout drain pads on the west side of office building.
- All concrete “v gutter” or headers called out in the plan shall be a minimum of 8 inches deep and shall be installed and in place for a minimum of seven (5) days prior to placement of any aggregate base. Concrete design strength shall be a minimum of 2,500 psi.
- Replace approximately 135 ft. of main sewer line and approximately 40 ft. each of two lateral lines .
- Install 3 basketball posts.
- Paint on new surface, play lines and markings as described on attachment “P” (see striping specification)
- All existing polls must be removed and new posts installed by contractor. (The district will supply the new posts).

## Delivery and storage of materials

- Protection of materials and equipment against vandalism and theft is the responsibility of the contractor.
- All materials shall be protected against damage by construction traffic.

## Work Time Frame:

- Project to begin as soon as documents are received and approved by VCSBSA and the work must be completed by August 20, 2019.

## Substitution Procedures

- A bidder who proposes to quote on the basis of an alternate system or materials shall submit to the School District a written application for approval of the alternate, to include the following:

1. An explanation of why the alternate should be considered.
2. A detailed description, and specifications, for the alternate system.

**Note:** The proposed alternates will not be considered without sufficient time for thorough examination by the School District, therefore any application for approval of alternates must be received in a timely manner.

- The Mesa Union School District request that any application for approval of alternates must be submitted and approved PRIOR to the scheduled bid opening date.
- The Mesa Union School District reserves the right to be the final authority on the acceptance or rejection of any proposed alternate material or system.

## General Provisions

- Contractor will maintain a safe work area and is responsible for the storage and security of all materials on the job site.

## Warranty

- Contractor to provide a one-year warranty on materials and workmanship.
- Contractor shall water test the paving prior to acceptance. All puddles shall not exceed 1/8-inch depth.

## California Contractors Licence Type Required

- C-12

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Attachment P.

