

SPECIFICATIONS FOR REMEDIATION & NEW CONCRETE PLACEMENT
FOR THE CITY OF PALACIOS SPORT COURTS

Scope Summary

Bids for remediation of existing 120'x120' basketball court are being solicited by the City of Palacios. Interested contractors must be registered, insured entities, in good standing with the City of Palacios, contact the City Manager's office for information.

The work will include, but is not limited to, the cleaning of the existing 120'x120' basketball courts located off to South Bay adjacent to the Pavilion, application of bonding agents to existing "cleaned" surface, installation of a 4" concrete cap with provisions to drain to outside edges. When concrete has cured sufficiently, 4 pickleball courts and a basketball court schematic will be painted on the new surface. Sleeves for court equipment will be installed under the direction of the City Manager or her designate.

01 71 00 - Local Conditions

The City of Palacios requires that contractors adhere to local and regional codes. Concrete placement, and the means and methods of performing the work, must comply with ACI Standards and described techniques. Contractors must be mindful of the impact of inclement weather on new concrete.

01 74 00 - Cleaning and Waste Management of Site

Construction site to be in a clean and orderly condition throughout the construction process. All waste from operations, garbage from meals, paper items, and plastic fragments to be removed daily and hauled from the site. Contractor acknowledges high wind conditions at the worksite and will maintain at all times waste disposal containers with secured covers. Contractor is responsible for the removal of all spoils from excavation and concrete placement including any waste or surplus materials.

01 76 00 - Protecting Installed Construction

Contractor shall protect all installed contiguous construction. Curbs, adjacent roads, walks, landscaping, and buildings will be protected and immediately restored if damaged by contractor, its suppliers, or machinery. All contiguous areas, automobiles and boats will be protected when applying any sealers or coatings.

03 00 00 - Concrete

Contractor shall review construction documents and provide labor and materials pertaining to the preparation of existing concrete surface as sub-base for new concrete placement and coatings of same as required in said documents and as specified herein, while complying with all applicable building codes.

03 00 01 – Preparation of Existing Surface

Cleaning

Contractor to clean existing 120'x120' basketball area with high pressure washing equipment, minimum @4000PSI. All dirt and buildup shall be removed leaving a clean substrate. Area shall be blown clear of standing water and allowed to dry sufficiently for inspection.

- Surface must be clean and sound.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the surface.
- Preparation work should be done by high pressure water blast, scabber, or other appropriate mechanical

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means to obtain an aggregate-fractured surface with a minimum CSP 3 surface profile or greater.

- Ensure there are no curing compounds or other contaminants remaining on the substrate before application.
- Substrate must be dry before application.

Bonding Agent

Apply SikaLiquid® Weld bonding agent or equivalent to existing concrete substrate. Follow manufacturer instructions.

03 05 00 – Installation of Concrete

Form, install rebar, pour, and finish 4” thick concrete cap over existing 120’x120’ concrete area. Install sleeves where required to accommodate pickle ball nets and basketball goals. See details.

03 05 01 Common Work Results for Concrete

All concrete work shall be designed on the basis of “Strength Design” in accordance with ACI 318 “Building Code Requirements for reinforced Concrete.” Concrete work shall be proportioned in accordance with ACI 301 “Specifications for Structural Concrete” and ACI 211.1 “Recommended Practice for Selecting Proportions for Normal Weight Concrete”. Concrete slabs, patios, driveways, walls, and foundations shall be constructed of a minimum 3000 to 3600 psi concrete, 28-day test, with a 4” minimum to 6” maximum slump maximum, air-entrained to 5 - 8%. No additional water shall be added to concrete after slump test is recorded. Cylinders shall be taken from every batch truck and tested for compressive strength at 7 and 28 days. Concrete should be a mix of high-grade Portland cement, clean sand or granular fill and washed gravel or crushed stone as coarse aggregate per ACI 530. Maximum aggregate size shall be 1”. All aggregates shall conform to ASTM C33. Water shall not exceed 5 1/2 gallons for each bag unless sand is very dry. Concrete shall be mixed using an approved batch machine or mobile mixer until uniform in color and providing a 4” minimum to 6” maximum slump.

03 05 02 Alternate

Alternates for the installation of a 3” fiber reinforced concrete cap utilizing mesh panel reinforcement may be submitted for approval if desired. The City of Palacios reserves the right to proceed with either option.

3 10 00 - Concrete Forming and Accessories

Provide all labor, materials, and equipment necessary for the completion of cleaning, preparing, and applying bonding agents prior to placing a 4” thick concrete cap over existing 120’x120’ concrete area. Concrete when deposited shall have a temperature ranging between a minimum of 50 degrees Fahrenheit and a maximum of 90 degrees Fahrenheit.

Construction of Forms - Construct wood forms of sound material, and of the correct shape and dimensions, constructed tightly and of sufficient strength. Brace and tie the forms together. Make joints and seams mortar tight. Install leakage control materials in accordance with manufacturer’s installation instructions.

Embedded Items - make provisions for sleeves, anchors, inserts, water-stops, and other items for pickleball nets and basketball hoops. City Manager or her designate will provide locations prior to scheduling the concrete pour.

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03 21 00 - Reinforcing Steel

Reinforcing steel (rebar) shall be minimum ASTM A615, grade 40. Rebar to be installed in a grid pattern, 18"x18", tied both ways and installed on plastic chairs or equivalent prior to pouring any concrete. All reinforcement splices shall be #3 bars 24" in length minimum. All rebar (reinforcing steel) shall be located 2" clear from top. All reinforcement steel shall be accurately placed, rigidly supported, and firmly tied in place with bar supports and spacers in accordance with ACI 301 and ACI 318.

03 35 00 - Concrete Finishing

Repair of surface defects shall begin immediately after removal of form or pouring of slab foundation. Provide smooth steel trowel finish, apply light coating of play sand over troweled concrete to roughen surface for play. Slope slabs away from center of slab with 1/4" of drop in elevation for every 1'-0" in distance. Patch all voids and depressions exceeding 3/8 inch in any direction.

09 97 23 - Concrete and Masonry Coatings

Allow masonry, concrete, and stucco to age at least one month before cleaning or applying a finish. Remove dirt, grease, loose particles, etc. Where efflorescence has occurred, wash with a 10% muriatic solution, rinse thoroughly with clean water and allow to thoroughly dry at least one week before painting or sealing.

09 97 24 - Application of Court Schematic Striping

Apply schematic striping for 4 Pickle Ball Courts and 1 Basketball Court with a paint prescribed for intended application. Adhere to all manufacturer preparation and application instructions. City Manager to provide diagram to assist in the layout of the courts.