WBA
ARCHITECTURE

18 October 2019

Copiah-Lincoln Community College | New Tennis Complex
WBA Project #7318

ADDENDUM NO. 02

NOTICE TO ALL DOCUMENT HOLDERS:
The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

GENERAL

ITEM NO. 1 **CHAIN LINK FENCING – TENNIS COURTS**
REVISE all references in the drawings to Sch. 40 pipe regarding the tennis court fencing to read *"CS-40 (Carbon Steel)."*
REVISE all references in the drawings to 9 ga. fence fabric to read *"11 ga."* as per the attached revised specification section 32.3113.26. Fabric finish shall remain 8 ga. as shown.

SPECIFICATIONS

ITEM NO. 2 **01.2000 PRICE AND PAYMENT PROCEDURES**
Section 1, Paragraph 1.7 "Potential Financing of the Work"
DELETE Paragraph in its entirety.

ITEM NO. 3 **32.1800 ACRYLIC TENNIS COURT SURFACING SYSTEM**
ADD the attached specification **32.1800 Acrylic Tennis Court Surfacing System** in its entirety.

ITEM NO. 4 **32.3113.26 CHAIN LINK FENCING – TENNIS COURT**
REPLACE specification with the attached specification **32.3113.26 Chain Link Fencing – Tennis Court** in its entirety.

Encl: Specifications (8.5x11):
32.1800 ACRYLIC TENNIS COURT SURFACING SYSTEM; **32.3113.26** CHAIN LINK FENCING – TENNIS COURT

cc: All Document Holders
File 7318.C2

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SECTION 32.1800

ACRYLIC TENNIS COURT SURFACING SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes: Acrylic Tennis Court Surfacing System

B. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.

1.2 RELATED REQUIREMENTS

A. Section 01.1000 – Summary: Contract descriptions, description of alterations work, work by others, future work, occupancy conditions, use of site and premises, work sequence.

B. Section 01.2300 – Alternates: Description of items, administrative requirements.

C. Section 01.4000 – Quality Requirements: Procedures for testing, inspection, mock-ups, reports, certificates; use of reference standards

D. Section 01.7800 – Closeout Submittals: Project record documents, operation and maintenance (O&M) data, warranties, and bonds.

E. Section 03.3000 – Cast-in-Place Concrete

1.3 PRICE AND PAYMENT PROCEDURES

A. Alternates: See Section 01.2300 – Alternates, for project alternatives affecting this section.

1.4 REFERENCE STANDARDS

A. National Collegiate Athletic Association (NCAA)

B. International Tennis Federation (ITF)

C. American Sports Builders Association (ASBA)

1.5 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate the installation of the court surfacing system with size, location and installation of service utilities.

B. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three (3) years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three (3) years of documented experience.

C. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

D. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

E. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.7 SUBMITTALS

A. Submit one set of Manufacturer's System Specifications.

B. Submit Technical Data Sheets (TDS) for all system components.
C. Submit Safety Data Sheets for all system components.
D. Submit current ISO Quality Management System Certification certificate.
E. Submit Manufacturer's complete Color Chart.
F. Submit current ITF surface classification.
G. Submit specified manufacturer's warranty and ensure that forms have been completed in the Owner's name and are registered with manufacturer.

1.8 WORKING CONDITIONS AND LIMITATIONS

A. Asphalt and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, Laykold Epoxy VTB Primer can be applied to 5-day old (minimum) concrete substrates according to coatings manufacturer guidelines. RH testing is required. Submit Technical Data Sheets (TDS) for all system components.
B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.
C. Water used in all mixtures shall be fresh and potable.
D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.
E. Do not apply coatings to a cold surface. Surface and air temperatures must be a minimum of 50°F (10°C) and rising.
F. Do not apply coatings if extremely high humidity prevents drying.
G. No coatings are to be applied if surface temperature exceeds 130°F (54°C).
H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

1.9 WARRANTY

A. See Section 01.7800 – Closeout Submittals, for additional warranty requirements.
B. Manufacturer's Warranty: One (1) Year

PART 2 – PRODUCT

2.1 MANUFACTURERS

A. Basis-of-Design: Laykold ColorCoat system by Advanced Polymer Technology (109 Conica Lane / P.O. Box 160 / Harmony, PA 16037 / Tel: 724-452-1330 / www.sportsbyapt.com) ColorCoat system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

1. Substitutions: See Section 01.6000 – Product Requirements

2.2 MATERIALS

A. Laykold Acrylic Concrete Primer. A water-based primer. 1 coat required.
B. Laykold Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2 coats, as needed.
    1. Percent Solids by Weight 52% (minimum).
    2. Weight 10.68 lbs./gallon
C. Laykold ColorCoat Concentrate textured batch mixture. Pigmented wear-resistant acrylic emulsion. 2 coats required.
    1. Percent Solids by Weight 49% (minimum).
    2. Weight: 12.9 (+/- 3) lbs/gallon

D. Laykold Line Prime. Clear drying acrylic emulsion line primer. 1 coat required.
    1. Percent Solids by Weight 29% (minimum).
    2. Weight: 8.9 lbs/gallon
E. Laykold Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1 to 2 coats as required.
    1. Percent Solids by Weight 67% (minimum).
    2. Weight: 11.4 lbs/gallon

2.3 ACCESSORIES

A. Laykold Deep Patch: A high-strength acrylic cement modifier used for filling cracks.
B. Laykold Crack Filler: A two-component, thixotropic polyurethane-based filler and sealer designed to fill cracks in concrete substrates.

PART 3 – EXECUTION

3.1 SURFACE PREPARATION

A. Concrete substrates shall be installed with a vapor barrier according to ASBA guidelines and be finished with a CSP 3 profile.
B. Acid Etching: Concrete slabs must be etched with Phosporic or Muriatic Acid. Acid must be mixed properly and applied with a broom to ensure proper etching. Acid shall remain on slab until all etching is complete. Acid shall be completely pressure washed off immediately after etching.
C. Inspect concrete or asphalt substrate for dryness. Concrete substrates are to be tested according to coatings manufacturer guidelines using ASTM F2170 (Relative Humidity testingvia probe) or ASTM F1869-98 (Anhydrous Calcium Chloride test)). Report any discrepancies to general contractor.
D. Surface of substrate shall be cleaned by general contractor as required.
E. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 INSTALLATION

A. Primer (for concrete substrates only): When installing the Laykold ColorCoat system over concrete, Laykold Poly Primer must be applied as the first layer of the system. After RH tests less than 75%, Laykold Poly Primer can be applied. Laykold Poly Primer is mixed by pouring the “B” component into the “A” component and mixing using a low speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed primer on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately 0.030 gal/yd^2 (0.15 kg/m^2 - 300 ft^2/gal). The working time for the Primer is approximately 50 minutes and is reduced in high temperatures. Lightly broadcast 40 to 60 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.24 kg/m^2) to create a rough texture. Allow 5 to 6 hours drying time before proceeding. If the concrete substrate tests with RH of 75% or greater or a MVER (Anhydrous Calcium Chloride) of greater than 3 lbs/1000 sqf/24 hours, more cure time is required or Laykold Epoxy VTB Primer can be used (see Laykold Epoxy VTB Primer TDS for application guidelines). Acrylic Concrete Primer may be substituted under certain conditions when approved by owner and/or design professional. If approved for use, see Acrylic Concrete Primer technical data sheet for application details.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.
    1. Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch binder slurry. Prime area to be patched with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer

directions.

2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.
3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Filler Coat(s): Apply one coat of Laykold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270- 400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold Nusurf is an acceptable substitute for Laykold Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods over cushioned courts.

D. Textured Color Coats:

1. Laykold MS2 – ITF Classification 2: Apply two (2) coats of Laykold ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted Laykold ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats.

E. Game Lines

1. Wait a minimum of 24 hours after final color coat before applying line paint.
2. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.
3. Prime masked lines with Laykold Line Prime and allow a minimum drying time of 1 hour.
4. Apply 1 to 2 coats as needed of Laykold Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

F. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.3 PROTECTION

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.
B. Other Trades: It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.
C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.
D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.
E. Do not allow black-soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed.

END OF SECTION

PART 1 - GENERAL

1-01 DESCRIPTION

A. This item consists of the construction of chain link fencing, gates and appurtenances of the various types specified on the Proposal at the locations shown on the PLANS.

B. This item shall include the furnishing all materials, labor, tools, equipment, and incidentals, and performing all operations necessary for the erection of chain link fencing on steel posts in accordance with the PLANS and SPECIFICATIONS.

C. The CONTRACTOR shall submit such material certifications and laboratory test results as may be needed to establish the quality of the fencing components being provided.

PART 2 - MATERIALS

2-01 CHAIN LINK FENCE FABRIC

A. Shall be of steel and conform to Federal Specification RR-F-191d.

B. The size of mesh shall be 1 ¾" inches.

C. The fence fabric shall be woven of 11 ga. (0.120") core, with an 8 ga. (0.162") finish, and shall be 120 inches high. The fence fabric shall be ASTM F 668 – Class 1. Extruded Polymer Coated.

2-02 POSTS

A. Shall be galvanized steel pipe, CS-40, and conform to Federal Specification RR-F-183 (1), ASTM Specification A 120. Post will be coated with 3 mil Polyester (minimum) to match framework. Post of different types shall be as specified herein.

B. End, corner and pull posts shall be 3.0 inches O.D., CS-40.

C. Intermediate posts shall be 2.5 inches O.D., Schedule CS-40.

D. Gate posts shall be 3.0 inches nominal, Schedule CS-40.

2-03 POST TOPS

A. Shall be of malleable iron or pressed steel plain post caps, as shown on the PLANS or specified on the Proposal, poly coated.

2-04 POST BRACES

A. Shall be provided for each gate, corner, pull, and end post.

B. Braces shall be galvanized steel pipe, 1.660 inches O.D., 1.806 pounds per linear foot, poly coated

C. Provide malleable iron or pressed steel clamps, galvanized, for fastening braces to posts.

2-05 TOP RAIL

A. Shall be provided as specified for post braces.

2-06 STRETCHER BARS

A. Shall be of galvanized steel not less than 3/16 inch by 3/4 inch and shall be in length one (1) inch less than the full height of the fabric, polymer coated.

B. Provide one stretcher bar for each gate and end post and two stretcher bars for each pull and corner post.

2-07 ACCESSORIES

A. Shall be of steel, malleable iron, or ductile iron, galvanized.

B. Ties and clips may be of aluminum.

2-08 GATES

A. The chain link fence gates shall be swing type complete with fabric, latches, stop, keepers, and hinges. Frames shall be constructed of tubular members welded at all corners or assembled with fittings. Frames shall have vertical bracing so that no vertical members are more than eight (8) feet apart.

B. Frame construction and galvanizing shall conform to Federal Specification RR-F-183 (1), ASTM Specification A-120.

2-09 LATCH

A. Shall be provided for the gate. Heavy duty, forked latches shall be provided for gates.

2-10 LOCK (NOT REQUIRED)

A. OWNER shall provide his own locks.

2-11 CONCRETE FOR POST SETTING

A. Shall attain a compressive strength of 2,500 pounds per square inch at 28 days.

B. Test cylinders and testing laboratory services shall be provided by the CONTRACTOR as specified

elsewhere herein.

PART 3 - EXECUTION

3-01 POST SPACING

A. Line posts shall be spaced at intervals not to exceed 10 feet when measured from center between terminal posts.

B. Measurements shall be made parallel to the slope of the court surface, and posts shall be placed in a vertical position.

3-02 POST SETTING

A. End, gate, corner, pull, and brace posts shall be set 36 inches deep in concrete bases 12 inches in diameter. All line posts shall be set 32 inches deep in concrete bases eight (9) inches in diameter.

B. Concrete bases shall be allowed to cure at least seven (7) days before installing fence fabric.

3-04 CHAIN LINK FABRIC

A. The fabric shall be placed on the inside of the posts, stretched taut, and fastened securely to the post. Fastening to terminal posts shall be by means of stretcher bars, with fabric bands spaced at a maximum of 15 inches on centers.

B. Fabrics shall be fastened to line posts by means of tie wire, metal bands, or other appropriate method, spaced at maximum of 15 inches on centers. The top edge of the fabric shall be fastened to the top rail by means of wire ties spaced at a maximum of 18 inches on centers. The bottom edge of the fabric shall be fastened to the bottom rail by means of wire ties spaced at a maximum of two (2) feet on centers. Ends of abutting rolls of fabric shall be joined by weaving a single strand of wire into the ends to form a continuous mesh.

3-05 GATES

A. Shall be erected to swing 180 degrees in each direction. Concrete in the base on the hinged side of gate leaves shall extend up to the bottom of the lower hinge so as to provide support.

B. All hardware shall be thoroughly secured, properly adjusted, and left in perfect working order. Adjust hinges and diagonal bracing so that the gates hang level.

3-06 WINDSCREEN

A. Windscreen shall be vinyl coated polyester, 85% opacity, 10.0 oz. per square yard, dark green or black in color. All fabrics will have four-ply hems, reinforced with 18 oz. vinyl tape. Brass grommets shall be placed on maximum 12” spacing.

END OF SECTION