CONTRACT DOCUMENTS
FOR
L-638 Tennis Courts Renovation
AT
Los Medanos College
2700 E Leland Rd,
Pittsburg, CA 94565

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

Consist of the following:

ADDENDUM # 3

DSA File #7-C1
DSA Application #01-114956

LPAS Architecture + Design
2484 Natomas Park Dr, Sacramento, CA 95833

May 3rd, 2016
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
L-638 Los Medanos College Gym Modernization – Package 3
Los Medanos College
ADDENDUM #3 Date: May 3, 2016

NOTICE TO ALL PRE-QUALIFIED CONTRACTORS ONLY

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated 05.14.2015. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. Deletions, Additions, Changes, Revisions

Project Manual

Section 00 30 00 – Bid Form

1. Delete previously issued Section 00300 Bid Form and replace with revised section 00300 Bid Form.

Section 31 20 00 – Earth Moving

1. Add section 31 20 00 – Earth Moving in its entirety.

Section 32 31 13 – Chain Link Fences and Gates

1. Add section 32 31 13 – Chain Link Fences and Gates in its entirety.

Civil Drawings

Sheet 3-C-2 – Grading & Layout Plan

1. Delete previously issued full-size sheet 3-C-2 and replace with attached full-size sheet 3-C-2 in its entirety.
2. Revise Pavement Legend as indicated on attached full-size sheet 3-C-2.
3. Remove existing A.C., fabric and base rock at existing half court, scarify and re-compact per attached full-size sheet 3-C-2.
ADDENDUM #3

Sheet 3-C-3 – Grading & Layout Plan
1. Delete previously issued full-size sheet 3-C-3 and replace with attached full-size sheet 3-C-3 in its entirety.
2. Remove existing A.C., fabric and base rock at existing half court, scarify and recompact per attached full-size sheet 3-C-3.
3. Revise detail 3B/3-C-3 per attached full-size sheet 3-C-3.

Architectural Drawings

Sheet 3-A0.10 – General Information
4. Delete previously issued full-size sheet 3-A0.10 and replace with attached full-size sheet 3-A0.10 in its entirety.
5. Added Bid Alternate #1: Concrete cut off curb wall at North and East sides of tennis court.

Sheet 3-A1.02 – Partial Site Plan at Tennis Courts
1. Delete previously issued full-size sheet 3-A1.02 and replace with attached full-size sheet 3-A1.02 in its entirety.

Sheet 3-A1.03 – Tennis Court Layout
1. Delete previously issued full-size sheet 3-A1.03 and replace with attached full-size sheet 3-A1.03 in its entirety.
3. Added bid alternate per attached full-size sheet 3-A1.02.

If you have any questions regarding this Addendum, please contact:

Jovan Esprit
Contra Costa Community College District
500 Court St., Martinez, CA 94553
Email: jesprit@4cd.edu;
Facsimile: 925-229-6959;

All other terms and conditions of BID are to remain the same.

LPAS Architecture + Design
2484 Natomas Park Drive, Suite 100
Sacramento, CA 95833

END OF ADDENDUM #3
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 Court St, Martinez, CA 94553

Herein referred to as "District"

1. INTRODUCTION

A. The Bidder proposes to perform the Work for the Contract Sum and within the proposed Contract Time, based upon an examination of the site and the Bid and Contract Documents.

B. The Bidder certifies this Bid is submitted in good faith.

C. The Bidder agrees that the Contract Sum and other proposed terms will be considered in evaluating Bids and may be negotiated and adjusted before awarding of Contract.

D. The signed copy of the Certification of the Visit to the Site shall be attached to the Bid Form Submittal.

E. A fully executed Statement of Bidder’s Qualifications signed by an authorized officer of the Bidder submitting the Bid shall be attached to the Bid Form.

F. A fully executed Non-Collusion Affidavit signed by an authorized officer of the Bidder submitting Bid shall be attached to the Bid Form.

G. The District shall award the contract to the lowest responsive and responsible Bidder. The evaluation of the low bid shall be based on the total of Item 2.A Base Bid plus Additive Alternate 3.A.

H. The District reserves the right to award the other Additive/Deductive Alternates through change orders as budget allows.

2. CONTRACT SUM

A. BASE BID (Alternates Not Included.)

For labor, materials, bonds, fixtures, equipment, tools, transportation, services, sales taxes and other costs necessary to complete the general construction in accordance with the Contract Documents, for a stipulated Contract Sum in the amount of:

____________________________________________ Dollars ($______________________)
3. **ADDITIONAL ALTERNATES**

A. **New Drainage, Curb and Fence**

Partial removal of existing fencing, new curb, fence, posts and drainage per Details A/3-C-2, 7&8 /3-C-3.

Provide all labor, materials, bonds, fixtures, equipment, tools, transportation, services, sales taxes and other costs necessary to complete this Alternate construction in accordance with the Contract Documents:

____________________________________________   Dollars  ($________________)

**TOTAL BASE BID PLUS ALTERNATES**

____________________________________________   DOLLARS  ($________________)

4. **COMPLETION TIME**

A. For establishing the Date of Final Completion the contract time for the Base Bid shall be as indicated in Section 00600, Construction Agreement. This time may be subject to modification to facilitate the work, as mutually agreed upon at a later date.

B. The Bidder certifies that the Bid is based on the Contract Time for completion as stated in Section 00600, Construction Agreement. Bidder further certifies that the Base Bid amount is sufficient to cover all labor, materials, central office and construction site overhead, profit, and all other costs related to the completion of the Project for the entire Project construction time for both the General Contractor and all Subcontractors, as stated above in paragraphs 2 and 3.

5. **ADDENDA**

A. The Bidder acknowledges receipt of the following Addenda, and certifies the Bid has provided for all modifications and considerations required therein.

None [ ]

Addendum No.: ________ dated __________________

Addendum No.: ________ dated __________________

Addendum No.: ________ dated __________________

Addendum No.: ________ dated __________________

Addendum No.: ________ dated __________________
Addendum No.: ________ dated __________________

B. List of Additional Addenda Attached: Yes [ ] No [ ].

6. DESIGNATION OF SUBCONTRACTORS

A. The Bidder has set forth a complete list indicating the type of work, name, and business address of each Subcontractor who will perform work in excess of one-half of one percent of the Contract Sum.

B. Any portion of the work in excess of the specified amount having no designated Subcontractor shall be performed by the Bidder.

C. Substitution of listed Subcontractors will not be permitted unless approved in advance by the District.

D. Prior to signing the Contract, the District reserves the right to reject any listed Subcontractor.

<table>
<thead>
<tr>
<th>Type of Work</th>
<th>Subcontractor's Name</th>
<th>Business Address</th>
<th>License #</th>
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E. Complete list of Subcontractors is attached: Yes [ ] No [ ]

F. Continuation list of Subcontractors is attached: Yes [ ] No [ ]

7. ACCEPTANCE AND AWARD

A. The District reserves the right to reject this Bid and to negotiate changes before or after execution of the Contract. This Bid shall remain open and shall not be withdrawn for a period of 90 days after Bid Opening date.

B. If written notice of acceptance of this Bid is mailed or delivered to the Bidder within 90 days after the date set for the receipt of this Bid, or other time before it is withdrawn, the Bidder will execute and deliver to the District a Contract prepared by District with the required Surety Bonds and Certificates of Insurance, within 10 days after personal delivery or deposit in the mail of the notification of acceptance.
C. Notice of acceptance or request for additional information may be addressed to the Bidder at the address provided.

8. **BID SECURITY**

A. The required 10 percent (10%) Bid Security for this Bid is attached in the form of:

   ( ) Bid Bond Issued By: _______________________________

   ( ) Certified or Cashier's Check No.________________________

   Issued by: ______________________________________________

9. **BIDDER'S BUSINESS INFORMATION**

A. **Individual [ ]:**

   Personal Name: __________________________________________

   Business Name: __________________________________________

   Address: ________________________________________________

   ___________ Zip Code: _____________

   Telephone: ________________________________

   Fax Number: ________________________________

B. **Partnership [ ]:**

   Co-partners' Names: _______________________________________

   Business Name: __________________________________________

   Address: ________________________________________________

   ___________ Zip Code: _____________

   Telephone: ________________________________

   Fax Number: ________________________________

C. **Corporation [ ]:**

   Firm Name: ______________________________________________

Contra Costa Community College District
Los Medanos College
L-638 Tennis Courts Renovation
Address: ________________________________

________________ Zip Code _____________

Telephone: ______________________________

Fax Number: ______________________________

State of Incorporation: ______________________

President: ________________________________

Secretary: ________________________________

Treasurer: ________________________________

Manager: ________________________________

**D. Power of Attorney:** Name: ______________________________

Title: ______________________________

**E. Contractor License No.** ________State of________

**F.** Bidder is submitting this proposal on behalf of a Joint Venture. Names, license numbers, and relevant information are given on a separate attachment:

Yes [ ] No [ ].

**G.** Upon request, furnish appropriate documentation to substantiate and/or support the data given.
10. The undersigned hereby certifies under penalty of perjury under the laws of the State of California that all the information submitted by the Bidder in connection with this Bid and all the representations herein made are true and correct.

Executed this day of ________________________________

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<th>Contractor’s License No.</th>
<th>Expiration Date</th>
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______________________________
Firm Name

______________________________
Signature

______________________________
By (Print or Type Name)

______________________________
Title

End of Section 00300
PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Preparing subgrades for slabs-on-grade, walks, pavements, turf and grasses, and plants.
2. Excavating and backfilling for buildings and structures.
3. Drainage course for concrete slabs-on-grade.
4. Subbase course for concrete pavements.
5. Excavating and backfilling for utility trenches.

1.2 REFERENCES

A. Standard Specifications, latest edition, issued by California Department of Transportation (CSS).


1.3 DEFINITIONS


B. Backfill: Soil material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.

E. Degree of Compaction: The ratio, expressed as a percentage of the dry density of the fill material as compacted in the field relative to the maximum dry density for the same material as determined by Test Method Number California 231-E or ASTM D 1557.

F. Engineered Fill: Engineered fill is a fill upon which the geotechnical engineer have made sufficient tests and observations to enable them to issue a statement that, in their opinion, the fill has been placed and compacted in accordance with the specification and plan requirements and to the satisfaction of the Architect.

G. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Landscape Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.

2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Landscape Architect. Unauthorized excavation, as well as remedial work directed by Landscape Architect, shall be without additional compensation.

H. Fill: Fill is all soil or soil/rock materials placed to raise the grade of the site to finish grade.

I. Import Fill: Material hauled in from off-site.

J. On-Site Material: Material obtained from the required excavations on the site.

K. Optimum Moisture Content: The moisture content at which the maximum laboratory density is achieved using the standard compaction procedure ASTM Test Designation D 1557 (AASHTO Test T-180).

L. Select Material: Soil Material meeting the requirements set forth in these specifications.

M. Soils Report: A report prepared specifically for the project by a geotechnical engineer. The Soils Report shall be made a part of these specifications by reference.

N. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

O. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.

P. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.4 PROJECT CONDITIONS

A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations.

B. Do not commence earth moving operations until plant-protection measures specified in on the contract plans or as specified in Section 01 56 39 "Temporary Tree and Plant Protection" (if included) are in place.

C. The Contractor shall be familiar with the soil conditions on the site, whether covered in the Soils Report or not, and shall thoroughly understand all recommendations associated with the grading.

1.5 QUALITY ASSURANCE

A. All work under this section will be subject to the inspection and approval of both the Architect and the District’s Geotechnical Engineer. Compaction testing shall be performed by a District approved independent testing laboratory under the supervision of a California registered geotechnical engineer.
B. Any fill where the site preparation, type of material, or compaction is not approved by the geotechnical engineer shall be removed and/or recompacted until the requirements are satisfied and approved by said geotechnical engineer.

C. Testing or retesting caused by unsatisfactory contract operations shall be paid for by the Contractor.

PART 2 - PRODUCTS

2.1 GENERAL

A. All fill material shall be in conformance with applicable requirements of Section 19 Earthwork, of the State Standard Specifications. Imported material shall conform to the requirements for harmful contaminants test for pollutants.

2.2 SOIL MATERIALS

A. General Engineered Fill: All fill material must be approved by the geotechnical engineer. The material for fill shall be a soils or soil/rock that is free from organic mater or other deleterious substances. The material shall not contain rocks or gravel larger than 3 inches in any dimension.

B. Select Fill Material beneath floor slabs: In addition to the requirements above, select material, when called for on the plans and for use under floor slabs, must conform to the requirements of the soils report.

C. Base Course: Class 2 aggregate base material, ¾” maximum grading, per State Standard Specifications.

D. Engineered Fill: Recycled Aggregate base, as specified by the Geotechnical Engineer.

E. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.

F. Permeable Material: Class 1 Type B permeable material per State Standard Specification Section 68-2.02F.

2.3 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored to comply with local practice or requirements of authorities having jurisdiction.
PART 3 - EXECUTION

3.1 GENERAL

A. Work done under this Section shall meet the applicable requirements of Section 19, Earthwork, of the State Specifications. The Contractor shall cut, fill, import, or export materials as required to meet the lines and grades for subgrade or grade as shown on the plans.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.

B. Protect and maintain erosion and sedimentation controls during earth moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

D. After stripping, the areas to be filled shall be over-excavated to the minimum depth called for on the plans or that is required by the geotechnical engineer. The over-excavated soil that is clean and free from organic material may be used later as engineered fill, as approved by the geotechnical engineer.

E. After stripping the surface vegetation and over-excavating to the required depths, the exposed surface shall be scarified to a minimum depth of eight inches (8") under the proposed building pad, and a minimum of 8 inches (8") elsewhere or as specified by the geotechnical engineer. The Contractor shall water and aerate as necessary to bring the soil to a moisture content that will permit proper compaction, and shall compact to the requirement of engineered fill as specified. Prior to placing fill, the Contractor shall obtain the geotechnical engineer’s approval of the site preparation in the area to be filled.

3.3 EXCAVATION, GENERAL

A. All excavations shall be carefully made true to the grades and elevations shown on the plans. The excavated surfaces shall be properly graded to provide positive drainage during construction and to prevent ponding of water.

B. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

3.4 EXCAVATION FOR STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1/2 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

B. Excavations at Edges of Tree- and Plant-Protection Zones:

1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Cut and protect roots according to requirements in Section 01 56 39 "Temporary Tree and Plant Protection."

3.5 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

3.6 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.

B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.

1. Clearance: As indicated.

C. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.

1. Over-excavate trenches 6 inches deeper than elevation required in rock or other unyielding bearing material, 4 inches deeper elsewhere, to allow for bedding course, and as shown on the contract plans.

D. Trenches in Tree- and Plant-Protection Zones:

1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
3. Cut and protect roots according to requirements in Section 01 56 39 "Temporary Tree and Plant Protection."

3.7 SUBGRADE INSPECTION

A. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.
3.8 **UNAUTHORIZED EXCAVATION**

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by the Architect.

1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.9 **STORAGE OF SOIL MATERIALS**

A. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

B. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within the percentage of optimum moisture content recommended by the Soils Report.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.10 **PLACING AND COMPACTING OF FILL MATERIAL**

A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

C. Before compaction begins, the fill shall be brought to a water content that will permit proper compaction by either aerating the material if it is too wet, or spraying the material with water if it is too dry. Each lift shall be thoroughly mixed before compaction to ensure a uniform distribution of water content. Compact soil materials in accordance with the “minimum percent relative compaction” and “minimum percent above optimum moisture content” listed in Section 6.3 “Site Grading” of the project Geotechnical Report.

1. Lift thickness requirements may be modified by the geotechnical engineer to suit equipment and materials or other conditions when required to assure satisfactory compaction.
2. Moisture-condition fill material by aerating or watering and thoroughly mix material to obtain moisture content permitting proper compaction.
3. Place and compact each layer of fill to indicated density before placing additional fill material. Repeat filling until proposed grade, profile, or contour is attained.
4. Suspend fill operations when satisfactory results cannot be obtained because of environmental or other unsatisfactory site conditions. Do not place fill material on muddy or frozen subgrade surface.

D. Place backfill material in uniform layers not greater than eight inches (8") loose thickness over entire backfill area.

1. Use hand tampers or vibrating compactors at foundation walls, retaining walls, and similar locations. Do not use large rolling equipment adjacent to foundation walls and retaining walls.

2. Do not backfill against foundation walls or retaining walls until walls for bearing surfaces have reached design strength or are properly braced, and backfilling operations approved. Provide clean backfill materials or granular materials as required.

3. Provide compaction control and request testing and inspection of all fill and backfill.

4. Unless specifically approved by the geotechnical engineer, water settling, puddling, and jetting of fill and backfill materials, as a compaction method is not permitted.

5. Maintain moisture content of materials during compaction operations within required moisture range to obtain indicated compaction density.

6. Provide adequate equipment to achieve consistent and uniform compaction of fill and backfill materials.

3.11 GRADING

A. General:

1. Uniformly grade areas to a smooth surface, free of irregular surface changes.
2. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Turf or Unpaved Areas: Plus or minus 1 inch.
2. Walks: Plus or minus 1 inch.
3. Pavements: Plus or minus 1/2 inch.

C. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.

D. Re-grading of Pathway: Pathways shall be re-graded to be uniformly smooth for access by pedestrians and maintenance vehicles. Debris shall be removed prior to re-grading. Erosion control measures shall be implemented as described on plans.

3.12 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.

B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
1. Shape subbase course and base course to required crown elevations and cross-slope grades.
2. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
3. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 90 percent of maximum dry unit weight according to ASTM D 698.

3.13 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.

D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.14 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.15 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off of Owner's property.

END OF SECTION
SECTION 32 31 13
CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Fence framework, fabric, and accessories.
B. Excavation for post bases; concrete foundation for posts.
C. Manual gates and related hardware.

1.02 RELATED REQUIREMENTS
A. Section 03 30 00 - Cast-in-Place Concrete: Concrete anchorage for posts.

1.03 REFERENCE STANDARDS
F. CLFMI CLF 2445 - Product Manual; Chain Link Fence Manufacturers Institute; 1997.

1.04 SUBMITTALS
A. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.
B. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components.
C. Samples: Submit two samples of fence fabric, 12 inch by 12 inch in size illustrating construction and finish.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Chain Link Fences and Gates:
   3. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MATERIALS AND COMPONENTS
A. Materials and Components: Conform to CLFMI Product Manual.
B. Fabric Size: CLFMI Tennis Court service.
C. Intermediate Posts: Type I round.
D. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round.
E. Wind Screen Fabric: 43 lb fabric, as manufactured by Tenax or approved equal.

2.03 ACCESSORIES
A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.
B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.
C. Hardware for Single Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; butterfly latch; keeper to hold gate in fully open position.
2.04 FINISHES
   A. Components (Other than Fabric): Galvanized in accordance with ASTM A123/A123M, at 1.7 oz/sq ft.
   B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M.

PART 3 EXECUTION

3.01 INSTALLATION
   A. Install framework, fabric, accessories and gates in accordance with ASTM F567.
   B. Place fabric on tennis court side of posts and rails.
   C. Set intermediate posts plumb, in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water runoff.
   D. Line Post Footing Depth Below Finish Grade: ASTM F567.
   E. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.
   F. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.
   G. Provide top rail through line post tops and splice with 6 inch long rail sleeves.
   H. Install center brace rail on corner gate leaves.
   I. Do not stretch fabric until concrete foundation has cured 28 days.
   J. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.
   K. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches on centers.
   L. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.

3.02 TOLERANCES
   A. Maximum Variation From Plumb: 1/4 inch.
   B. Maximum Offset From True Position: 1 inch.

END OF SECTION
ANCHOR ALL SITE FURNISHINGS, INCLUDING BUT NOT LIMITED TO
ANCHOR CENTER OF NET WITH CENTER STRAP

PROVIDE 3.0 MM (MIN) BRAIDED POLYETHYLENE FL.

REMOVE EXISTING CHAIN LINK FENCE GATES AND REPLACE WITH NEW
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ALL STRIPING SHALL BE WHITE. 4" WIDE WHITE STRIPING UNLESS

REMOVE EXISTING CHAIN LINK FENCE GATES WHERE INDICATED AND

NETS SHALL BE 3'-0" HIGH AT THE CENTERPOINT. FIX CENTERPOINT

BASE OF DESIGN IS TU-400 PRO TOURNAMENT

SEE CIVIL SHEET C-2 FOR ADDITIONAL INFORMATION ON GRADING,

REPLACE CHAIN LINK FENCE FABRIC, SLATS, ETC. AT

CUT OFF CURB WALL - SEE

INTERNAL WINDER

ANCHOR TO HEAVY DUT GALVANIZED GROUND

ANCHOR INSTALLED PER NET MANUFACTURER RECOMMENDATIONS.

1/2"Ø ANCHOR PIN

3" ROUND STEEL TENNIS POST (BLACK) AS A.C. PAVING DISTRIBUTED BY TENNIS UNIVERSAL, INC.

CONC POST FOOTING

NET W/ DOUBLE LAYER VINYL HEADBAND.

PROVIDE 5 YEAR WARRANTY.

3/4" Ø STEEL TENNIS POST (BLACK) AS A.C. PAVING DISTRIBUTED BY TENNIS UNIVERSAL, INC.

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