



City of Danville, Virginia

J. Gary Via, CPPO
Director of Purchasing
e-mail: viajg@danvilleva.gov

PO Box 3300
Danville, VA 24543

427 Patton Street, Room 304
Danville, VA 24541
Phone (434) 799-6528
Fax (434) 799-5102
e-mail: purchasinbg@danvilleva.gov

March 17, 2015
IFB 14/15-114
“Bridge Street Substation Fencing”
Addendum No. 2

Please note the following changes:

1. Bid dated has been extended to **March 26, 2015** at 2:00 p.m.
2. Option 1: Specifications clarifications:
7' high, Black PVC coated Chain Link Fence. Schedule 40 throughout, 3" terminal posts, 2 ½" line posts, 1/5/8" top and bottom rail #9 gauge core chain link, 2" mesh, class 2B, Schedule 40 gate frames, 2".
3. Add Option 3: Provide pricing for Ideal “Talon” (or approved equal) Aluminum fencing and gates. Specifications are attached.
4. All existing posts and concrete to be removed. Provide option to cut off posts and grind flush.
5. Revised bid proposal sheets are attached.

All other specifications remain the same.

J. Gary Via, Director of Purchasing

Company Name: _____ Signature: _____

Signature: _____ Title: _____
(Printed)

Address:

City _____ State _____ Zip Code _____

Date: _____

e-mail address: _____

Phone No: _____ Fax No: _____



FENCES AND GATES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Industrial ornamental aluminum fence system.
- B. Pedestrian walk gates.
- C. Commercial / Industrial Estate Gates.
- D. Cantilever Gates.

1.2 RELATED SECTIONS

- A. Section 02300 - Earthwork.
- B. Section 03300 - Cast-In-Place Concrete.

1.3 REFERENCES

- A. ASTM - American Society for Testing and Materials:
 - 1. ASTM B 221/B 221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
- B. American Architectural Manufacturers Association (AAMA): AAMA 2604 - Voluntary Specification, Performance Requirements, and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
- C. American Welding Society (AWS):
 - 1. AWS D1.1 - Structural Welding Code - Steel (copyrighted by AWS, ANSI approved).
 - 2. AWS D1.2 - Structural Welding Code - Aluminum (copyrighted by AWS, ANSI approved).

1.4 SUBMITTALS

- A. Product Data: Submit product data showing materials proposed for use. Submit sufficient information to determine compliance with the Drawings and Specifications.
- B. Shop Drawings: Submit shop drawings for each product and accessory required. Include information not fully detailed in manufacturer's standard product data.
- C. Closeout Submittals: Submit the following:
 - 1. Maintenance and operation data, including methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance.

2. Warranty documents specified herein.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall be a firm engaged in the manufacture of ornamental metal fences and gates of types and sizes required, and whose products have been in satisfactory use in similar service for a minimum of five years.
- B. Installer Qualifications: Installer shall be a firm that shall have a minimum of two years of successful installation experience with projects utilizing ornamental metal fences and gates similar in type and scope to that required for this Project.
- C. Single Source Responsibility: Obtain ornamental metal fences and gates from a single source with resources to produce products of consistent quality in appearance and physical properties without delaying the work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the Project site in supplier's or manufacturer's original wrappings and containers, labeled with supplier's or manufacturer's name, material or product brand name, if any.
- B. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and be protected against damage, weather, vandalism, and theft.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to fabrication of the work and preparation of shop drawings, to ensure proper fitting of the work. Show recorded measurements on final shop drawings. Notify the Owner and the Architect, in writing, of any dimensions found which are not within specified dimensions and tolerances in the Contract Documents, prior to proceeding with the fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the work.

1.8 WARRANTY

- A. The powder coated surface on all components (pickets, rails, and posts) is warranted for 5 years. Refer to manufacturer for complete details regarding warranty.
- B. The powder coated surface on all components (pickets, rails, and posts) is warranted for 15 years. Refer to manufacturer for complete details regarding warranty.
- C. The entire fence and gate system shall have a limited lifetime warranty against defects in workmanship and material. Refer to manufacturer for complete details regarding warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Ideal Aluminum Products, which is located at: 2000 Brunswick Lane ; Deland, FL 32751; Toll Free Tel: 877-323-6496; Tel: 386-736-1700; Fax: 386-822-4956; Email: [request info \(arch@ideal-ap.com\)](mailto:request info (arch@ideal-ap.com)); Web: <http://www.ideal-ap.com>

B Approved equals will be considered.

2.2 MATERIALS

- A. Aluminum Extrusions: 6063-T5 alloy in accordance with ASTM B 221/B 221M.
- B. Fasteners: Type 302 stainless steel, self-drilling head screws. Screws shall be painted to match the finish of the fence.
- C. Accessories: Aluminum castings shall be used for post caps, wall brackets, scrolls, finials, and other miscellaneous hardware. Hinges and latches shall be fabricated from aluminum extrusions with stainless steel springs.

2.3 ORNAMENTAL FENCING

- A. Industrial Style Fence System:
 - 1. Product: "Industrial (I-Series)," as manufactured by Ideal Aluminum Products.
 - 2. Style: Talon (Curved press point)
 - 3. Panel Width:
 - a. 6 foot (1829 mm) panels.
 - 4. Pickets: 1 inch (25.4 mm) by 1 inch (25.4 mm) by 0.062 inch (1.57 mm).
 - 5. Rails: 1.625 inch (41.8 mm) by 1.625 inch (41.28 mm) by 1.625 inch (41.28 mm).
 - a. Side Wall: 0.100 inch (2.54 mm).
 - b. Top Wall: 0.075 inch (1.91 mm).
 - 6. Posts: 3 inches (64 mm) by 3 inches (64 mm) by 0.125 (1.91 mm) wall.
 - 7. Gate Posts: 3 inches (64 mm) by 3 inches (64 mm) by wall.
 - 8. Picket Spacing: 4.375 inches (111.13 mm) on center.
 - 9. Height: 84 inches (2133 mm).
 - 10. Alloy: 6063-T5
 - 11. Post: 3 inches (64 mm) by 3 inches (64 mm) by 0.100 inch (2.54 mm) wall.
 - 12. Fence Design: Maine (#203). Posts:
 - a. Size: 2.5 inches (64 mm) by 2.5 inches (64 mm) by 0.075 inch (1.91 mm) wall w/ standard post cap.
 - b. Size: 3 inches (64 mm) by 3 inches (64 mm) by 0.100 inch (2.54 mm) wall w/standard post cap.
 - c. Size: 2.5 inches (64 mm) by 2.5 inches (64 mm) by 0.125 inch (3.18 mm) wall w/standard post cap.

2.4 GATES

Commercial / Industrial Estate Gates: As manufactured by Ideal Aluminum Products provide estate gates as indicated on the Drawings, available to match fence style or custom Ideal design. Provide heavy-walled all-welded aluminum construction. Gates shall have standard Ideal aluminum barrel hinges.

2.5 FINISH

- A. IdealCoat: The fence and gate system shall have an electrostatically applied TGIC polyester powder coated finish that meets or exceeds industry standard 2604 tests.
 - 1. Coating Process:
 - a. Pretreatment: Before the finish is applied, a five-stage acidic pretreatment must be applied to assure maximum adhesion and corrosion resistance.
 - b. Stage 1: Phosphoric acid and Complex Organic Phosphate cleaner to prepare the surface
 - c. Stage 2: Water rinse
 - d. Stage 3: Acid based metal cleaner and oxide remover which conditions

the aluminum surfaces for accepting coatings where consistent uniformity is required

- e. Stage 4: Deionized water rinse
 - f. Stage 5: Chrome free, non-phosphate liquid coating chemical used to produce on aluminum and zinc alloys, a clear nearly colorless chemical Dried-In-Place (DIP) coating. The coating, when properly applied, has excellent paint bonding properties and affords under film protection
2. Coating Performance Requirements: Coating meets or exceeds the following.
- a. Minimum Initial Dry Film Thickness: > 30 microns (1.2 mil) for 80% of measurements, > 25 microns (0.68 mil) or 85% of film thickness specified. Minimum primer > 7.75 microns (0.4 mil)
 - b. Outdoor Weathering Exposure Time: 5 years, South Florida
 - c. Chalking Resistance (After Weather Exposure) (ASTM D 4214, Met. A): 5 years: Chalk < 8 rating
 - d. Color Retention (After Weather Exposure): 5 year fade: delta E < 5
 - e. Gloss Retention (After Weathering): 5 years > 30% retention
 - f. Erosion Resistance (After Weathering): 5 years < 10% loss
 - g. Humidity Resistance (per ASTM D 2247 or D4585)-no visually apparent change and "few" blisters < size 8 per ASTM D 968)
 - h. Film Erosion: < 10%
 - i. Abrasion Resistance (per ASTM D 968): Abrasion Coefficient > 20
 - j. Salt Spray Corrosion Resistance: 3000 hr < 8 blisters, > 7 scribe
 - k. Boiling Water Film Adhesion: No loss of adhesion after 20 minutes in 212OF water

2.6 FABRICATION

- A. Horizontal Rails: Rails shall be "U" channels. Pickets shall pass through holes punched in the top rail. The number of rails shall vary with the style, height, and strength of the fence system according to manufacturer's specifications.
- B. Pickets: Pickets shall be fastened to the rails using stainless steel tek screws painted to match the color of the fence. Screws shall be used on only one side of the rail leaving the other side with a clean appearance.
- C. Posts: Posts shall be pre-punched to allow the Horizontal rails to slide in and be attached with stainless steel tek screws. Cast aluminum post caps shall be affixed to all posts. Post size and wall thickness shall be based on manufacturer's recommendations. A gate requires a gate post on both sides.
- D. Gates: Swing gates shall be fabricated to manufacturer's standard methods based on application. Standard hardware should be used.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare the grade and remove surface irregularities, if any, which may cause

interference with the installation of fencing.

- C. If preparation and condition is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use of non-Ideal Aluminum Products parts/components will negate manufacturer's warranty.
- C. Fence posts shall be set in accordance with the manufacturer recommended spacing.
- D. Insert fence horizontal rail end into pre-punched posts and fasten with Tek screws.
- E. Center and align posts, place concrete around posts and vibrate or tamp for consolidation. Recheck vertical and top alignment of posts, and make necessary corrections.
- F. Install gates plumb, level, and secure for full opening without interference. For double gates, install drop rod. Adjust hardware for smooth operation.
- G. Division 2 and Division 3 Sections shall govern post base material requirements.
- H. Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected.
 - 1. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles.
 - 2. The manufacturer's gate drawings shall identify the necessary gate hardware required for the application.
 - 3. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations

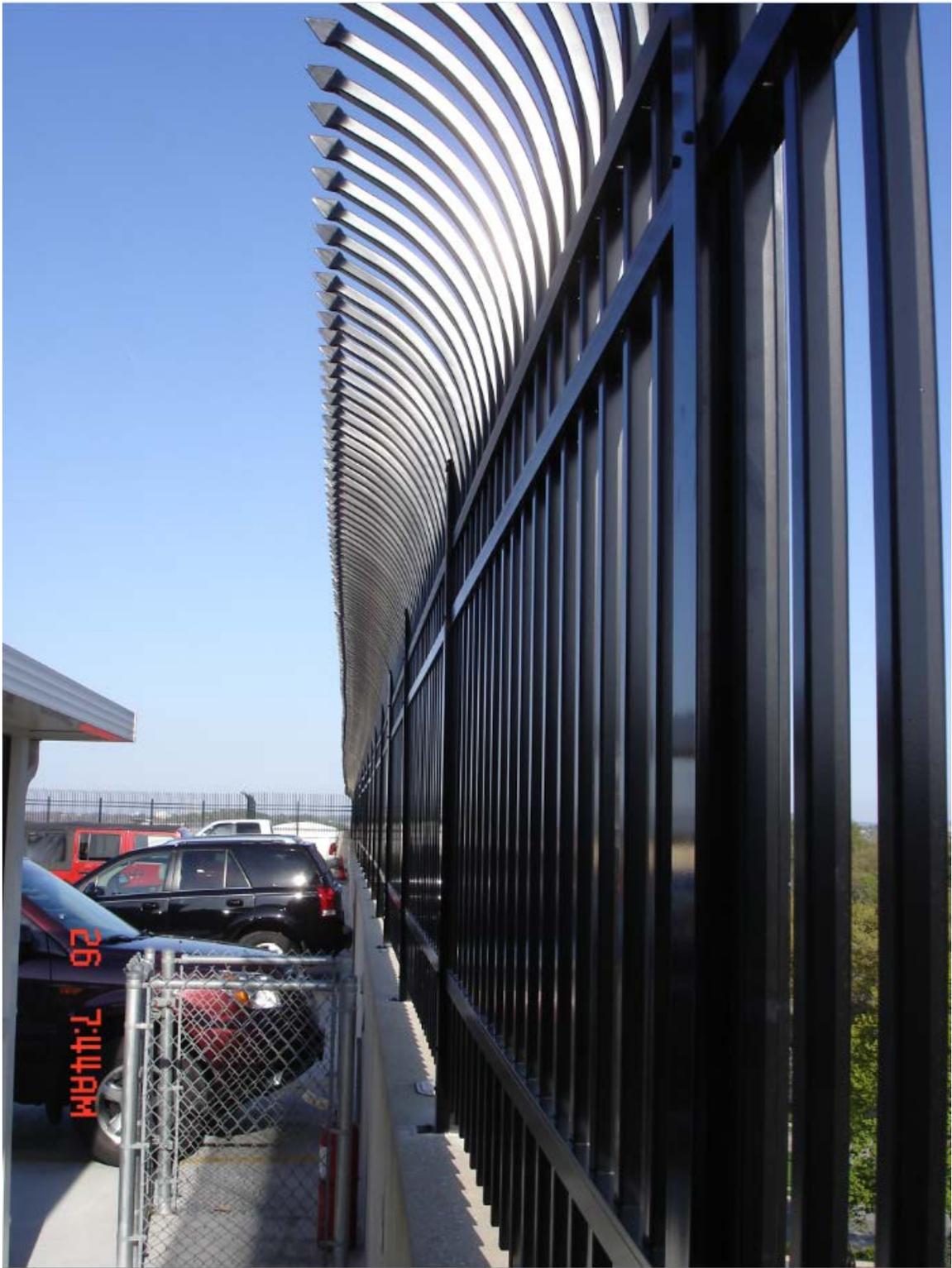
3.4 CLEANING

- A. Leave immediate work area neat at end of each work day.
- B. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- C. Clean fence with mild household detergent and clean water rinse well. Mortar should be removed from exposed posts and other fencing material using a 10% solution of muriatic acid followed immediately by several rinses with clean water.
- D. Touch up scratched surfaces using materials recommended by manufacturer. Match touchup paint color to fence finish.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION



City of Danville

IFB 14/15-114 Bid Proposal REVISED FOR ADDENDUM 2

Bridge Street Substation Fencing

The undersigned, as Bidder, hereby declares that he or he and his associates are the only person or persons interested in the proposal as principal or principals; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined specifications for the work and contractual documents relative thereto, and has read all special provisions furnished prior to the bid opening; that he has satisfied himself relative to the work to be performed, and materials and equipment to be furnished.

The Bidder proposes and agrees, if this proposal is accepted, to contract with the City of Danville, Virginia in the form of contract specified, to furnish all necessary materials, equipment, machines, tools apparatus, means of transportation, and labor necessary to perform in full and complete the requirements of the specifications and contract documents, to the full and entire satisfaction of the City of Danville, Virginia with definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents, for the lump sum prices of =

Option 1: Black PVC coated chain link fencing with two (2) vehicle gates

\$ _____

Option 2: 7' high, Black Ameristar impasse 2 Stronghold style" high security fence (or Equal); with three (3) vehicle gates.

\$ _____

Option 3: 7' high, Black Ideal Aluminum- 4 rails "Talon" style" high security fence (or Equal); with three (3) vehicle gates.

\$ _____

CREDIT TO Cutoff existing fence posts and grind flush with ground (leave concrete)

\$ _____ (deduct)

My signature certifies that the accompanying bid is not the result of or affected by any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud punishable under Title 18.2, Chapter 12, Article 1.1 of the Code of Virginia, 1950, as amended. Furthermore, I understand that fraudulent and collusive bidding is a crime under the Virginia Governmental Frauds Act, the Virginia Government Bid Rigging Act, and Virginia Antitrust Act, and Federal

Law and can result in fines, prison sentences, and civil damage awards. I hereby certify that I am authorized to sign this bid for the BIDDER.

The Bidder further agrees that:

1. The City, in protecting its best interest, reserves the right to reject any or all bids or waive any defects in favor of the City. Any changes, erasures, deletions in the unit or lump sum prices above, modifications in the bid form, or alternate proposals not specified in the bid proposal shall make the proposal irregular and subject to rejection.

2. All quantities listed above are estimates only and the City reserves the right to raise, lower, or eliminate any quantity or item and in any case the unit or lump sum prices shall be used in determining partial or final payment.

3. If awarded the contract, to execute and deliver to the City within ten (10) consecutive calendar days after their receipt of the contract documents, a satisfactory Performance Bond and Labor & Material Bond, as required, in the amount of one hundred percent (100%) of the contract amount along with the signed agreement.

4. In case of failure on their part to execute the said agreement within ten (10) consecutive calendar days after receipt of the contract documents, the monies payable by the Security accompanying this bid shall be paid to the City of Danville, Virginia, as liquidated damages for such failure; otherwise, the Security accompanying this bid shall be returned to the Bidder.

5. The work under this contract shall commence not later than five (5) consecutive calendar days after the date of a written Notice To Proceed is given by the City to the Contractor and shall be completed in forty five (45) calendar days.

6. The amount of Liquidated Damage, as stipulated in the specifications, shall be one hundred dollars (\$100.00) for each day, including Saturdays, Sundays, and Holidays, after the established date of completion.

7. This bid is subject to acceptance within a period of ninety (90) days from the date of this bid.

The undersigned Bidder acknowledges receipt of the following Addenda, which have been considered in the preparation of this Bid:

No. _____ Dated _____

No. _____ Dated _____

Company Name _____ **Date** _____

Address _____

Zip Code

Signature _____

**Affix Company Seal
(if applicable)**

Signature (Printed) _____

Title _____

Phone _____ **Fax** _____

**Commonwealth of VA Contractor License
#** _____

City of Danville business license # _____

**Commonwealth of VA State Corporation
Identification #**