SECTION 32 31 00

ALUMINUM FENCING AND GATES

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Key-Link; Aluminum Fencing and Gate products.  
.  
This section is based on the products of Key-Link, which is located at:110 Peters Rd.New Holland, PA 17557Toll Free Tel: 888-704-7130Tel: 717-435-3196Fax: 717-355-7129Email: [request info (jsurovi@keylinkonline.com)](https://arcat.com/rfi?action=email&company=Key-Link&message=RE%253A%2520Spec%2520Question%2520(02821key)%253A%2520&coid=48043&spec=02821key&rep=&fax=717-355-7129)  
Web: <https://keylinkonline.com>   
 [ [Click Here](https://arcat.com/company/key-link-48043) ] for additional information.  
Key-Link is a leading manufacturer of Aluminum Railing, Fencing and Chain Link Fence for both residential and commercial projects. With multiple product line styles to choose from in 8 stock colors, various baluster options plus a Cable Rail system, you'll see why Key-Link is the preferred choice for your aluminum fence and railing needs. Key-Link Fencing & Railing is an affiliate company of Superior Plastic Products located in picturesque Lancaster County PA. and has been in business since the early 1980's.  
Experience outdoor living as you were meant to. Key-Link Fencing & Railing offers an array of options to surround you with a beautiful, lasting outdoor living space. Offering exceptional versatility and innovative solutions with a variety of baluster options, curved and glass panel railing and complete ADA handrail to enhance the enjoyment and safety of your outdoor living space.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Residential Fencing
    2. Commercial Fencing
    3. Post Caps
    4. Gates.
    5. Gate Hardware.
    6. Postcap LED Lighting.
    7. Accessories.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 02 20 00 - Assessment.
    2. Section 32 31 23 - Plastic Fences and Gates.
    3. Section 03 30 00 - Cast-in-Place Concrete.
    4. Section 05 50 00 - Metal Fabrications.
    5. Section 05 73 16 - Wire Rope Decorative Metal Railings Aluminum Railings and Balustrades.
    6. Section 06 10 00 - Rough Carpentry.
    7. Section 06 63 00 - Plastic Railings.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. AAMA 2604 - Performance Requirements and Test Procedures for High-Performance Organic Coatings on Aluminum Extrusions and Panels
    2. AAMA 609 and AAMA 610.02 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum
    3. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
    4. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
    5. ASTM B 247 - Standard Specification for Aluminum and Aluminum Die Forgings, Hand Forgings and rolled Ring Forgings.
    6. ASTM B 429 - Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.
    7. NAHB ICC 700-2011 - Practice #601.7 No Site-Applied Finishing Materials
    8. NAHB ICC 700-2011 - Practice #604.1 Recycled Content.
    9. U. S. Green Building Council, LEED Building Design & Construction (BD+C) 2009 (Version 3.0) (LEED v2009).
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Details of material and construction.
        3. Storage and handling requirements and recommendations.
        4. Installation methods and requirements.
     3. Shop Drawings: Submit shop drawings for fabrication and installation of ornamental metalwork. Include plans, elevations and detail sections. Indicate materials, methods, finishes and types of joinery, fasteners, anchorages and accessory items.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraphs if LEED is not applicable.

* + 1. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
       1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
       2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.
    2. NAHB ICC 700-2011:
       1. Practice #601.7 No Site-Applied Finishing Materials.
       2. Practice #604.1 Recycled Content.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm), representing actual product, color, and patterns.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic cleaning and maintenance of all components.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 10 years documented experience manufacturing products specified in this section.
     2. Installers Qualifications: Minimum 3 years documented experience installing systems specified in this section.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
       4. Accepted mock-ups shall be comparison standard for remaining Work

\*\* NOTE TO SPECIFIER \*\* Include a Pre-Installation Meeting if the project size and/or quality warrant taking such a precaution. Delete if not required.

* + 1. Pre-Installation Meeting: Convene a meeting at the project site prior to scheduled commencement of the Work of this Section. Attendees to include the Architect the Manufacturer's representative, the Contractor, the Installer, and related trades. Review the following.
       1. Project conditions.
       2. Status of other trades.
       3. Project duration.
       4. Field-constructed mock-ups.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Handle and store materials in accordance with manufacturers instructions and to prevent damage.
     2. Store products in manufacturer's unopened, properly labeled, original packaging until ready for installation.
     3. Store components to avoid damage from moisture, abrasion, and other construction activities.
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
  3. WARRANTY
     1. Provide with manufacturer's limited lifetime warranty.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Key-Link, which is located at:110 Peters Rd.New Holland, PA 17557Toll Free Tel: 888-704-7130Tel: 717-435-3196Fax: 717-355-7129Email: [request info (jsurovi@keylinkonline.com)](https://arcat.com/rfi?action=email&company=Key-Link&message=RE%253A%2520Spec%2520Question%2520(02821key)%253A%2520&coid=48043&spec=02821key&rep=&fax=717-355-7129);Web: <https://keylinkonline.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. MATERIALS
     1. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than strength and durability properties of alloy and temper designated below for each aluminum form required.
        1. Extruded Bar and Tube: ASTM B 221 (ASTM B 221 M), alloy 6063T5/ T52.
        2. Extruded Structural Pipe and Tube: ASTM B 429, alloy 6063T832.
        3. Drawn Seamless Tube: ASTM B 210 (ASTM B 210M), alloy 6063T832.
        4. Plate and Sheet: ASTM B 209 (ASTM B 209M), alloy 6061T6.
        5. Die and Hand Forgings: ASTM B Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate247 (ASTM B 247 M), alloy 6061T6.

\*\* NOTE TO SPECIFIER \*\* Select the Residential Series or Commercial Series fencing as required and delete the one not required. Key-Link's Aluminum Fence System is manufactured of the highest quality aluminum and has a "no screw" assembly process for easier installations. Most fence systems can be used for residential and pool applications alike.

* 1. RESIDENTIAL FENCING

\*\* NOTE TO SPECIFIER \*\* Select the Model Number fencing required and delete those not required.

* + 1. Model: 202003
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3.79 inches.
       6. Quad or Spear Finial Options:None
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 48 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: No.
    2. Model: 211011/Model 211014
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3.79 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 62.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    3. Model: 211051/ Model: 211054
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 62.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    4. Model: 211111/ Model: 211114
       1. Width Options: 6 foot
       2. Fence Height: Varies between 64 inches to 72 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3.79 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 67.5 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    5. Model: 211151/ Model: 211154
       1. Width Options: 6 foot
       2. Fence Height: Varies between 64 inches to 72 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 67.5 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    6. Model: 211211/ Model: 211414
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 72 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3.79 inches.
       6. Quad or Spear Finial Options: Spears/ Quad.
       7. Ring Option: No Rings.
       8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 75.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    7. Model: 211251/ Model: 211454
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 72 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 75.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    8. Model: 212011/ Model: 212014
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3.79 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 58.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    9. Model: 212051/ Model: 212054
       1. Width Options: 6 foot
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2 inches by 2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
       4. Vertical Pickets: 5/8 inch by 5/8 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 58.75 inches or larger.
       11. Racking: 23 inches over 6 foot section.
       12. Convex or Concave Gate: Yes
    10. Model: 212111/ Model: 212114
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 63.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: Yes
    11. Model: 212151/ Model: 212154
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 63.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: Yes
    12. Model: 212211/Model: 212414
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: No Rings.
        8. Short Picket Option: Spear Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 75.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: Yes
    13. Model: 212251/ Model: 212454
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: Rings
        8. Short Picket Option: Spear Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 75.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: Yes
    14. Model: 221022/ Model: 221032/ Model: 221042
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    15. Model: 221122/ Model: 221132/ Model: 221142
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    16. Model: 221322/ Model: 221332/ Model: 221342
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65 inches or larger
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    17. Model: 222022/ Model: 222032/ Model: 222042
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 48 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    18. Model: 222122/ Model: 222132/ Model: 222142
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    19. Model: 222322/ Model: 222332/ Model: 222342
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65 inches or larger
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    20. Model: 231013
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    21. Model: 231053
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    22. Model: 231113
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 61.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    23. Model: 231153
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 61.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    24. Model: 231313
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    25. Model: 231353
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    26. Model: 232013
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    27. Model: 232053
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    28. Model: 232113
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 57.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    29. Model: 232153
        1. Width Options: 6 foot
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 57.5 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    30. Model: 232313
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3.79 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.
    31. Model: 232353
        1. Width Options: 6 foot
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2 inches by 2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1-1/8 inch by 1 inch.
        4. Vertical Pickets: 5/8 inch by 5/8 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 23 inches over 6 foot section.
        12. Convex or Concave Gate: No.

\*\* NOTE TO SPECIFIER \*\* Select the accessories required from the following paragraphs and delete those not required.

* + 1. Accessories: Provide the following accessories as required for the installation.
       1. Concrete Bracket: 2 inch stainless steel post brackets.
       2. Swivel Wall Mount: Color
          1. Black
          2. Bronze
          3. White
       3. Post Stiffener: 2 inch square post
       4. Wall Mount
          1. Black
          2. Bronze
          3. White

\*\* NOTE TO SPECIFIER \*\* Select the optional features required from the following paragraphs and delete those not required. Coordinate the selections available with the Model Number selected for the options available with each model.

* + 1. Optional Features:
       1. Caps:
          1. 2 inch Caps: Square Flat Cap
          2. 2 inch Caps: Square Raised Cap
          3. 2 inch Square Indented Recess Cap
          4. 2 inch Ball Cap
       2. Finials:
          1. Quad
          2. Spear
       3. Ring Option
       4. Pickets
          1. Short Picket
          2. Convex Picket
          3. Concave Picket
  1. COMMERCIAL FENCING

\*\* NOTE TO SPECIFIER \*\* Select the Model Number fencing required and delete those not required.

* + 1. Model: 402003
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3.56 inches.
       6. Quad or Spear Finial Options: None
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 48 inches or larger.
       11. 12. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: No.
    2. Model: 411011/ Model: 411014
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3.56 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 62.75 inches or larger.
       11. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    3. Model: 411051/ Model: 411054
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 62.75 inches or larger.
       11. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    4. Model: 411111/ Model: 411114
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 64 inches to 72 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3.56 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 67.5 inches or larger.
       11. 12. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    5. Model: 411151/ Model: 411154
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 64 inches to 72 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 67.5 inches or larger.
       11. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    6. Model: 411211/ Model: 411414
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 72 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3.56 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 75.75 inches or larger.
       11. 12. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    7. Model: 411251/ Model: 411454
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 72 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 75.75 inches or larger.
       11. 12. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    8. Model: 412011/ Model: 412014
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3.56 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: No Rings.
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 58.75 inches or larger.
       11. 12. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    9. Model: 412051/ Model: 412054
       1. Width Options: 8 foot.
       2. Fence Height: Varies between 36 inches to 66 inches.
          1. Post Size: 2-1/2 inches by 2-1/2 inches square.
          2. Post Height: Fence Height 30 inches plus.
       3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
       4. Vertical Pickets: 3/4 inch by 3/4 inch.
       5. Picket Spacing: 3-5/8 inches.
       6. Quad or Spear Finial Options: Spears/Quads.
       7. Ring Option: Rings
       8. Short Picket Option: No Short Pickets.
       9. Arched Top Gate: Yes.
       10. Pool Friendly: 58.75 inches or larger.
       11. Racking: 38 inches over 8 foot section.
       12. Convex or Concave Gate: Yes
    10. Model: 412111/ Model: 412114
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: Spears
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 63.5 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: Yes
    11. Model: 412151/ Model: 412154
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 63.5 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: Yes
    12. Model: 412211/ Model: 412414
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: No Rings.
        8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 75.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: Yes
    13. Model: 412251/ Model: 412454
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: Spears/Quads.
        7. Ring Option: Rings
        8. Short Picket Option: Spear Short Pickets/ Quad Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 75.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: Yes
    14. Model: 421022/ Model: 421032/ Model: 421042
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    15. Model: 421122/ Model: 421132/ Model: 421142
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    16. Model: 421322/ Model: 421332/ Model: 421342
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65 inches or larger
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    17. Model: 422022/ Model: 422032/ Model: 422042
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 48 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    18. Model: 422122/ Model: 422132/ Model: 422142
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    19. Model: 422322/ Model: 422332/ Model: 422342
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
        3. Post Size: 2-1/2 inches by 2-1/2 inches square.
        4. Post Height: Fence Height 30 inches plus.
        5. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        6. Vertical Pickets: 3/4 inch by 3/4 inch.
        7. Picket Spacing: 3.56 inches.
        8. Quad or Spear Finial Options: None
        9. Ring Option: No Rings.
        10. Short Picket Option: Flush Top Short Pickets.
        11. Arched Top Gate: Yes.
        12. Pool Friendly: 65 inches or larger
        13. Racking: 38 inches over 8 foot section.
        14. Convex or Concave Gate: No.
    20. Model: 431013
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    21. Model: 431053
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 56.75 inches or larger
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    22. Model: 431113
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 61.5 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    23. Model: 431153
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 61.5 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    24. Model: 431313
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    25. Model: 431353
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    26. Model: 432013
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    27. Model: 432053
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 66 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 52.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    28. Model: 432113
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 57.5 inches or larger.
        11. acking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    29. Model: 432153
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 64 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: No Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 57.5 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    30. Model: 432313
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3.56 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: No Rings.
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.
    31. Model: 432353
        1. Width Options: 8 foot.
        2. Fence Height: Varies between 36 inches to 72 inches.
           1. Post Size: 2-1/2 inches by 2-1/2 inches square.
           2. Post Height: Fence Height 30 inches plus.
        3. Horizontal Fence Rails: 1.25 inches by 1.5 inches.
        4. Vertical Pickets: 3/4 inch by 3/4 inch.
        5. Picket Spacing: 3-5/8 inches.
        6. Quad or Spear Finial Options: None
        7. Ring Option: Rings
        8. Short Picket Option: Flush Top Short Pickets.
        9. Arched Top Gate: Yes.
        10. Pool Friendly: 65.75 inches or larger.
        11. Racking: 38 inches over 8 foot section.
        12. Convex or Concave Gate: No.

\*\* NOTE TO SPECIFIER \*\* Select the accessories required from the following paragraphs and delete those not required.

* + 1. Accessories: Provide the following accessories as required for the installation.
       1. Concrete Bracket: 2-1/2 inch stainless steel post brackets.
       2. Swivel Wall Mount: Color
          1. Black
          2. Bronze
          3. White
       3. Post Stiffener: 2-1/2 inch square post
       4. Wall Mount
          1. Black
          2. Bronze
          3. White

\*\* NOTE TO SPECIFIER \*\* Select the optional features required from the following as required. Delete those not required. Coordinate the selections available with the Model Number selected for the options available with each model.

* + 1. Optional Features:
       1. Caps:
          1. 2-1/2 inch Square Flat Cap
          2. 2-1/2 inch Square Raised Cap
          3. 2-1/2 inch Square Indented Recess Cap
          4. 2-1/2 inch Ball Cap
       2. Finials:
          1. Quad
          2. Spear
       3. Ring Option
       4. Pickets
          1. Short Picket
          2. Convex Picket
          3. Concave Picket
  1. GATES
     1. Fence Gates: Match style and grade of fencing system.
        1. Nominal length:

\*\* NOTE TO SPECIFIER \*\* Select the gate size(s) required and delete those not required.

* + - * 1. 3 foot
        2. 4 foot
        3. 5 foot Lengths

\*\* NOTE TO SPECIFIER \*\* Select the gate hardware required from the following paragraphs and delete those not required. Hinges have been independently tested to comply with strict safety standards, especially those relating to stringent swimming pool safety codes. Always verify the hardware specified with your local building code requirements

* + 1. Gate Hardware
       1. Hinges:
          1. TruClose (Regular) Multi-Adjustable Hinge

Maximum Load Capacity: 375 lbs.

Horizontal Adjustment: Up to 1-1/8 inches

Vertical Adjustment: Up to 3/4 inch to 3/4 inch

Self Closing Gate Rating: 55 lbs.

Dimensions: 3-3/4" high by 4" wide

Gate Gap Variance: From 7/8" to 1-1/2"

Ideal Gate Gap: 1-1/8"

Construction: Molded polymer with adjustable stainless steel torsion spring with side legs that wrap around fence post and edge of gate for added strength.

Color:

\*\* NOTE TO SPECIFIER \*\* Select the color require and delete the one not required.

Black

White

* + - * 1. TruClose (Heavy Duty) Multi-Adjustable Hinge

Maximum Load Capacity: 700 lbs.

Horizontal and Vertical Adjustment: Up to 3/4"

Self Closing Gate Rating: 132 lbs.

Dimensions: 5 inches high by 7 inches wide

Gate Gap Variance: From 5/8 inch to 1-3/8 inches

Ideal Gate Gap: 1 inch

Construction: Molded polymer with adjustable stainless steel torsion spring with side legs that wrap around fence post and edge of gate for added strength.

Color:

\*\* NOTE TO SPECIFIER \*\* Select the color require and delete the one not required.

Black

White

* + - * 1. TruClose (Regular) Hinge for Round Posts

Maximum Load Capacity: 375 lbs.

Includes shims/adapters to fit different post and gate diameters

Self Closing Gate Rating: 55 lbs.

Dimensions: 4 inches high by 4 inches wide

Gate Gap Variance: From 7/8 inch to 1-1/2 inches

Ideal Gate Gap: 1-1/8 inches

Construction: Molded polymer with adjustable stainless steel torsion spring with side legs that wrap around fence post and edge of gate for added strength.

Color:

Black

* + - * 1. TruClose (Heavy Duty) Hinge for Round Posts

Maximum Load Capacity: 700 lbs.

Includes shims/adapters to fit different post and gate diameters

Self Closing Gate Rating: 132 lbs.

Dimensions: 5 inches high by 4-1/8 inches wide

Gate Gap Variance: From 3/4 inch to 1-3/8 inches

Ideal Gate Gap: 1 inch

Construction: Molded polymer with adjustable stainless steel torsion spring with side legs that wrap around fence post and edge of gate for added strength.

Color:

Black

* + - * 1. TruClose Self-Closing Gate Hinge

Maximum Load Capacity: 700 lbs.

Horizontal Adjustment: Up to 1-1/8 inches

Vertical Adjustment: Up to 3/4 inch

Self Closing Gate Rating: 66 lbs.

Dimensions: 5 inches high by 4 inches wide

Gate Gap Variance: From 7/8 inch to 1-1/2 inches

Ideal Gate Gap: 3/4 inch

Construction: Molded polymer with adjustable stainless steel torsion spring with side legs that wrap around fence post and edge of gate for added strength.

Color:

\*\* NOTE TO SPECIFIER \*\* Select the color require and delete the one not required.

Black

White

* + - * 1. Heavy Duty Self-Closing S.S. Adjustable Hinge

Designed for larger, heavier vinyl gates

Large enclosed spring provides increased closing power

Very easy tension adjustment

Horizontally Adjustable

Used with 2 inches or Larger Gate Profiles

Post Flange: 4.5 inches (H) by 3.25 inches (W) by 1.25 inches (D)

Gate Flange: 3.5 inches (H) by 2.75 inches (W) by 1.25 inches (D)

Material/Color: 304 Series stainless steel/ powder coated black.

* + - 1. Child Safety Latch (Pool code approved): MAGNALatch ALERT
         1. Model #ML3AVPKA Vertical Pull Safety Latch Alert for Gates 60 inches or Higher

Key Lockable with re-keyable lock.

Color Black.

Gate Gap 1/2 inch to 1-1/2 inches. Provide with spacer if required for larger gaps of 1-1/2 inch to 2 inches.

Height: 12-7/16 inches.

Includes magnetic latching, visual unlatched alarm and audible unlatched alarm.

* + - * 1. Model #ML3ATPKA Top Pull Safety Latch Alert for Gates 48 inches or Higher

Key Lockable with re-keyable lock.

Color Black

Gate Gap 1/2 inch to 1-1/2 inches. Provide with spacer if required for larger gaps of 1-1/2 inch to 2 inches.

Height: 20-1/2 inches High

Includes magnetic latching, visual unlatched alarm and audible unlatched alarm.

* + - 1. Child Safety Latch (Pool code approved): MAGNALatch (Non-Alert)
         1. Model #ML3VPKA (Black)

10 inch Vertical Pull

Gate Gaps of 1/2 inch to 1-1/2 inch

Color Black.

* + - * 1. Model #ML3TPKA

20 inch Top Pull

Gate Gaps of 1/2 inch to 1-1/2 inch

Color Black.

* + - 1. Lockable Gate Latch:
         1. Model #LLAA

Key Lockable.

Color Black

Gap Variance 3/8 inch to 1-3/8 inch

Up to 6 inch post size.

* + - * 1. Model #LLAAW

Key Lockable.

Color White

Gap Variance 3/8 inch to 1-3/8 inch

Up to 6 inch post size.

* + - 1. Lockable Gate Latch (Deluxe)
         1. Model #LLDAB-K

Key Lockable with re-keyable 6-pin lock.

Operates/locks both sides

Color Black

Gap variance 3/8 inch to 1-1/4 inch

Post size 1-1/2 inches to 6 inches

* + - * 1. Model #LLDABW-K

Key Lockable with re-keyable 6-pin lock.

Operates/locks both sides

Color White

Gap variance 3/8 inch to 1-1/4 inch

Post size 1-1/2 inches to 6 inches

* + - 1. Lockable Gate Latch (Magnetic)
         1. Model #LLMKABT

Key Lockable with re-keyable 6-pin lock.

Operates/locks both sides

Color Black

Gap variance 3/8 inch to 1-1/4 inch

Post size 1-1/2 inches to 6 inches

* + - 1. LokkLatch External Access Kit
         1. (Black) Model #LLB

Lockable Push-Button operates latch from outside the fence.

Color Black

* + - * 1. (White) Model #LLBW

Lockable Push-Button operates latch from outside the fence.

Color White

* + 1. Drop Bolt:
       1. LokkBolt Key Lockable Security Drop Bolt
          1. Model #LB118BX-KSA: 18 inches Black
          2. Model #LB118BXW-KSA 8 inches White
          3. Model #LB124BX-KSA 24 inches Black
          4. Model #LB124BXW-KSA 24 inches White
       2. Heavy Duty Drop Pin Plate:
          1. Model #LBBPBG

Molded, rust-free plate

Color Black

* + 1. Gate Handle: Fits all gates, left /right openings.
       1. Model #LL3GH
          1. Color Black
       2. Model #LLHBGWT
          1. Color White

\*\* NOTE TO SPECIFIER \*\* Select the optional outdoor postcap lighting if required from the following paragraphs and delete those not required. Coordinate with the fence postcaps selected with fencing.

* 1. POSTCAP LED LIGHTING
     1. Construction:
        1. Die-Cast and Powder-Coated Aluminum Housing
        2. Acrylic Lens.
        3. High output 3000K LED bulbs. Rated at over 50,000 hours.
        4. LED light board coated with an Optical Conformal Coating to protect circuitry from normal environmental conditions.
        5. Mizu-P25 2.50mm Pitch Waterproof connections
        6. UL / CSA approved.

\*\* NOTE TO SPECIFIER \*\* Select the fixture Style(s) required from following paragraphs and delete those not required.

* + 1. Fixture Style:
       1. Pyramid Style Post Cap Light: Light shines outward on all sides.
          1. Size: Fits post size:

\*\* NOTE TO SPECIFIER \*\* Select the size required from following paragraphs and delete those not required.

2-1/2 inch

Adapters available for 2-/2 inch cap to fit on 2 inch Post

* + - * 1. Low Power Draw: 0.4 Watts per Cap.

\*\* NOTE TO SPECIFIER \*\* Select the following optional paragraph if required and delete if not required.

* + - * 1. Matching Post Caps: Provide none lighted caps where indicated.
      1. Decorative Style Post Cap Light: Light shines outward on all sides.
         1. Size: Fits post size:

\*\* NOTE TO SPECIFIER \*\* Select the size required from following paragraphs and delete those not required.

2-1/2 inch

Adapters available for 2-/2 inch cap to fit on 2 inch Post

* + - * 1. Low Power Draw: 0.4 Watts per Cap.

\*\* NOTE TO SPECIFIER \*\* Select the following optional paragraph if required and delete if not required.

* + - * 1. Matching Post Caps: Provide none lighted caps where indicated.
      1. Pyramid Style Post Cap Downlight: Light shines downward on all sides.
         1. Size: Fits post size:

\*\* NOTE TO SPECIFIER \*\* Select the size required from following paragraphs and delete those not required.

2-1/2 inch

Adapters available for 2-/2 inch cap to fit on 2 inch Post

* + - * 1. Low Power Draw: 1.6 Watts per Cap.

\*\* NOTE TO SPECIFIER \*\* Select the following optional paragraph if required and delete if not required.

* + - * 1. Matching Post Caps: Provide none lighted caps where indicated.
      1. Decorative Style Post Cap Downlight: Light shines downward on all sides.
         1. Size: Fits post size:

\*\* NOTE TO SPECIFIER \*\* Select the size required from following paragraphs and delete those not required.

2-1/2 inch

Adapters available for 2-/2 inch cap to fit on 2 inch Post

* + - * 1. Low Power Draw: 1.6 Watts per Cap.
      1. Post and Stair Accent Light: Mounts to posts, stair risers or deck fascia. Low profile light shines downward.
         1. Size: 2 inches W by 1 inch H.

\*\* NOTE TO SPECIFIER \*\* Select the fixture Color(s) required from following paragraphs and delete those not required.

* + 1. Fixture Color:

\*\* NOTE TO SPECIFIER \*\* The following colors are color matched for aluminum railing.

* + - 1. Gloss White
      2. Textured White
      3. Silver
      4. Gloss Bronze
      5. Textured Bronze
      6. Kona
      7. Gloss Black
      8. Textured Black

\*\* NOTE TO SPECIFIER \*\* The following colors are color matched for special order color match.

* + - 1. Gloss Beige
      2. Brownstone
      3. Speckled Walnut
      4. Redwood
      5. Hunter Green

\*\* NOTE TO SPECIFIER \*\* The following colors are color matched for vinyl railing.

* + - 1. White
      2. Almond
      3. Clay
      4. Black
    1. Accessories: Provide with the following accessories as required for the installation indicated on the Drawings.

\*\* NOTE TO SPECIFIER \*\* Available in: 2 foot, 5 foot, or 9 foot Lengths

* + - * 1. Wire Extension

\*\* NOTE TO SPECIFIER \*\* Includes: 2-Way Splitter, 5 foot and 9 foot Wire Extensions

* + - * 1. Post Light Wire Kit
        2. 2-Way Wire Splitter

\*\* NOTE TO SPECIFIER \*\* Comes with 1 Plug Cover

* + - * 1. 4-Way Wire Splitter

\*\* NOTE TO SPECIFIER \*\* Available in 3 Per Pack

* + - * 1. Plug Cover

\*\* NOTE TO SPECIFIER \*\* The following accessories are optional select those required from the following paragraphs and delete those not required.

* + - * 1. Remote Dimmer: Control the brightness of lights remotely.
        2. Photoelectric Timer: Set a timer for lights.

\*\* NOTE TO SPECIFIER \*\* Power supply is suitable for up to 40 fixtures. Verify quantity required for installation as required

* + - * 1. Power Supply: Mean Well NPF-40-12 UL8750 constant voltage and constant current LED power supply.

Input Voltage: 90~305Vac

C.V. Output Voltage: 12.0 Volts

C.V. Max Current: 3.340 Amps

Max Output Power: 40 Watts

Constant Current: 3.340 Amps

C.C. Voltage Min: 7.20 VDC

C.C. Voltage Max: 12.00 VDC

\*\* NOTE TO SPECIFIER \*\* Select the accessories and size required from the following paragraphs and delete those not required.

* 1. ACCESSORIES
     1. Post Caps and Trim: Cap all hollow extrusions with aluminum caps and trim as selected by the Architect from the manufacturer's available selections. Provide colors and textures matching railing types selected.
     2. Stainless Steel Post Bracket: All stainless steel heavy duty post bracket facilitates installations on almost any surface, especially concrete, when properly installed.
        1. Size:
           1. 2 inches
           2. 2-1/2 inches
     3. Swivel Wall Mount
        1. Color
           1. Black
           2. Bronze
           3. White
     4. Post Stiffener
        1. Size:
           1. 2 inches
           2. 2-1/2 inches
     5. Wall Mount
        1. Black
        2. Bronze
        3. White
  2. FINISH
     1. Finish railing system components after fabrication as follows:

\*\* NOTE TO SPECIFIER \*\* Select Standard or Special colors from the following paragraphs and delete the one not required. Note that additional lead times may apply for Special colors.

* + - 1. Standard Colors complying with AAMA 2604 powder coatings formulated with super durable or modified polyester resins with colors as selected by the Architect.
      2. Special Colors complying with AAMA 2605 high-performance exterior specifications that are resistant to moisture, weathering, ozone and UV radiation with colors as selected by the Architect.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until conditions have been properly prepared.
      2. Verification of Conditions: Examine locations where fencing is to be installed for any conditions detrimental to the proper and timely completion of the work.
      3. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare the grade and remove surface irregularities, if any, which may cause interference with the installation of the fence.
      3. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Set posts and gate posts for gate openings as indicated on the Drawings.
      3. 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.
      4. Install gates plumb, level, and secure for full opening without interference. For double gates, install drop rod. Adjust hardware for smooth operation.
   4. CLEANING
      1. Touch-up, repair, or replace damaged products before Substantial Completion.
      2. Clean the work according to manufacturer's written instructions. Post hole excavations shall be scattered uniformly away from the posts. Clean fence with mild household detergent and rinse well with clean water. Remove mortar from exposed posts using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water.
   5. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION