Stephen F. Austin State University

NACOGDOCHES, TEXAS

INVITATION TO BID

FAILURE TO SIGN WILL DISQUALIFY BID

Signature  City  Zip

Printed Name  VENDOR NAME AND ADDRESS  PHONE/FAX

Name of Firm

Mailing Address

City  State  Zip  EMAIL

Due Date:  12/04/19  at 3:00 P.M.

Show bid opening and bid invitation number in lower left hand corner of sealed bid envelope and return sealed bids to:

Stephen F. Austin State University  P. O. Box 13030, SFA Station  2124 Wilson Drive  Nacogdoches, Texas 75962-3030  Phone (936) 468-2206  FAX (936) 468-4282 (See 2.3 reverse side)

See Instruction 2.10 on Back for Vendor ID Number

Is Vendor a State of Texas certified HUB?  □ Yes

Delivery in ______ Days  Cash Disc. _______ % _______ Days

Check all that apply if Preference Claimed under Rule 34 TAC 20.38

□ Supplies, materials or equipment produced in TX/offered by TX bidders*
□ Agricultural products grown in TX
□ Agricultural products offered by TX bidders*
□ USA produced supplies, materials or equipment
□ Products produced at facilities located on formerly contaminated property
□ Products of persons with mental or physical disabilities
□ Products made of recycled, remanufactured, or environmentally sensitive materials
□ Energy efficient products
□ Rubberized asphalt paving material
□ Recycled motor oil and lubricants
□ Products and services from economically depressed or blighted areas

*By signing this bid, bidder certifies that if a Texas address is shown as the address of the bidder, bidder qualifies as a Texas resident Bidder as defined in Rule 34 TAC 20.38.

IF QUOTING OTHER THAN THE REFERENCED ITEM(S) BELOW, BROCHURE AND/OR SPECIFICATIONS SHOULD BE ENCLOSED. ALL BIDS WILL BE CONSIDERED F.O.B. DESTINATION UNLESS OTHERWISE NOTED.

AWARD NOTICE: Stephen F. Austin State University (SFASU) reserves the right to make an award on the basis of low line item bid, low total of line items, or in any other combination that will serve the best interest of SFASU and to reject any and all bid items in the sole discretion of SFASU.

<table>
<thead>
<tr>
<th>Item No.</th>
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<th>Qty. &amp; Unit</th>
<th>Unit Price</th>
<th>Extension</th>
</tr>
</thead>
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Quote price on quantity and unit of measure, extend and show total. If error in extension, unit price shall govern.

Items for state use are exempt from state sales and federal excise tax. Do not include tax in your bid.

ADDENDUM NO. 2

THIS ADDENDUM MUST BE ACKNOWLEDGED IN ORDER FOR THE RESPONSE TO RECEIVE CONSIDERATION. FAILURE TO ACKNOWLEDGE THE ADDENDUM WILL RESULT IN DISQUALIFICATION OF THE RESPONSE.

SPECIFICATIONS

Reference attached cut sheets for owner supplied bollards.
Bollard R-7591

General Description:
The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:
- Height: 31 3/4" Base Diameter: 10 1/4"
- Weight: 79 lbs (Bollard Only)
- Material: Ductile Iron
- Max. Interior Security Post Size: 4 1/2" x 25" (Diameter x Height)

Finish Options:
- Polyester Powdercoated
See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

Installation Options:
- Fixed - Anchor Casting in New Concrete (see sheet 2 of 12)
- Fixed - Concrete Insert Anchor in Existing Concrete (see sheet 3 of 12)
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For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.
See Reliance Foundry's maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

Optional Accessories:
- Chain Eye
- Quick Link Connector 5/16" (Powder Coated)
- Bollard Chain 3/8" (Powder Coated)
See Reliance Foundry's optional accessories at: www.reliance-foundry.com/bollard/accessories-bollards

Bollard Chain Eye 3/8" (Powder Coated)  Quick Link Connector 5/16" (Powder Coated)  Bollard Chain 5/16" (Powder Coated)
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**Notes:**

1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.  
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.  
3) Dimensions herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.  
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.
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**Tools needed:**

1) Measuring tape
2) 1 1/8" wrench
3) 3/16" hex key
4) Hammer drill
5) 1" Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool

**Notes:**

1) Use hammer drill to make hole 1" dia. x 3 1/8" depth.
2) Clean drill hole of debris.
3) Insert drop-in anchor into hole
4) Use hammer and setting tool to drive plug down.
5) Tighten threaded bar until it reached approx. 1" into the drop-in anchor.
7) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

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<thead>
<tr>
<th>ITEM</th>
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<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>R7591B</td>
<td>R7591 Base</td>
<td>Ductile Iron Powder Coated</td>
<td>60 lbs</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>R7591C</td>
<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
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<tr>
<td>3</td>
<td>1</td>
<td>Drop-in Concrete Insert 3/4&quot;</td>
<td>Drop-in Concrete Insert 3/4&quot; - requires 1&quot; x 3 1/8&quot; hole (dia. x depth)</td>
<td>Steel Plated</td>
<td>1/2 lbs</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>R7500BAR 3/4&quot;</td>
<td>R7500 Threaded Bar 3/4&quot; x 31&quot;</td>
<td>Steel Plated</td>
<td>3 1/4 lbs</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Washer 3/4&quot; OD 3 1/2&quot;</td>
<td>Washer 3/4&quot; OD 3 1/2&quot; Thick 1/4&quot;</td>
<td>Steel Plated</td>
<td>5/8 lbs</td>
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<tr>
<td>6</td>
<td>1</td>
<td>Hex Nut 3/4&quot;</td>
<td>Hex Nut 3/4&quot; - requires 1 1/8&quot; wrench</td>
<td>Steel Plated</td>
<td>1/8 lbs</td>
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<tr>
<td>7</td>
<td>3</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
</tr>
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**Copyright:**

This plan drawing and design are, and at all times remain, the exclusive property of Reliance Foundry Co. Ltd.

**Unit:**

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
1-877-789-3245 info@reliance-foundry.com
www.reliance-foundry.com
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<td>R7591 Cap</td>
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<td>19 lbs</td>
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<tr>
<td>3</td>
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<td>Adhesive Anchor</td>
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<td>Vinylester Adhesive Mortar</td>
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<td>R7500 Threaded Bar 1&quot; x 34&quot;</td>
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<td>3</td>
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<td>R7590AN 1&quot;</td>
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<td>Hex Nut 1&quot; - requires 1 1/2&quot; wrench</td>
<td>Steel Plated</td>
<td>1/4 lbs</td>
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<tr>
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<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dims are provided for guidance only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

---

### Diagram Details

1. Use 1 piece of 1" nut on bar as anchor in wet concrete.
2. Ensure the bar is centered and extend no more than 30" above grade.
3. Wait until concrete is cured.
4. Secure bollard base with 1" washer and 1" nut.
5. Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

**Tools needed:**
1) Measuring tape  
2) 1 1/2" wrench  
3) 3/16" hex key
Bollard R-7591

**General Description:**
The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

**Specifications:**
- **Height:** 31 3/4" (dia. x height) Filled with concrete
- **Base Diameter:** 10 1/4"
- **Weight:** 79 lbs (Bollard Only)
- **Material:** Ductile Iron
- **Max. Interior Security Post Size:** 4 1/2" x 25" (Diameter x Height)

**Finish Options:**
- Polyester Powdercoated

See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**
- Fixed - Anchor Casting in New Concrete
- Fixed - Concrete Insert Anchor in Existing Concrete
- Fixed - Adhesive Anchor in Existing Concrete
- Fixed - Anchor Casting in New Concrete Form
- Post Cover - New Post in New Concrete
- Post Cover - New Post in Existing Concrete
- Post Cover - Existing Post with Adhesive Anchor
- Post Cover - Existing Post with Concrete Anchor
- Removable - Anchor Casting in New Concrete
- Removable - Concrete Insert Anchor in Existing Concrete
- Removable - Premium Retractable in New Concrete

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Care and Maintenance:**
Reliance’s line of bollards is finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided are for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Tools needed:**
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
1-877-789-3245 info@reliance-foundry.com
www.reliance-foundry.com

**PARTS LIST**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<th>WEIGHT</th>
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<td>R7591 Base</td>
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<td>R7591 Cap</td>
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<td>Steel Plated</td>
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<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
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<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
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Bollard R-7591

**General Description:**
The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

**Specifications:**
- **Height:** 31 3/4"  
  **Base Diameter:** 10 1/4"  
  **Weight:** 79 lbs (Bollard Only)  
  **Material:** Ductile Iron  
  **Max. Interior Security Post Size:** 4 1/2" x 25" (Diameter x Height)

**Finish Options:**
- Polyester Powdercoated

See Reliance Foundry's standard color options at: [www.reliance-foundry.com/bollard/colors-bollards](http://www.reliance-foundry.com/bollard/colors-bollards)

**Tools needed:**
1) Measuring tape  
2) 1 1/2" wrench  
3) 3/16" hex key  
4) Hammer drill  
5) 1 1/8" Masonry drill bit  
6) Caulking gun and utility knife

**Notes:**
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.  
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.  
3) Dimensions provided hereby are for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.  
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Installation Options:**
- Fixed - Anchor Casting in New Concrete  
  (see sheet 2 of 12)  
- Fixed - Concrete Insert Anchor in Existing Concrete  
  (see sheet 3 of 12)  
- Fixed - Adhesive Anchor in Existing Concrete  
  (see sheet 4 of 12)  
- Fixed - Anchor Casting with Concrete Form  
  (see sheet 5 of 12)  
- Post Cover - New Post in New Concrete  
  (see sheet 6 of 12)  
- Post Cover - New Post in Existing Concrete  
  (see sheet 7 of 12)  
- Post Cover - Existing Post with Adhesive Anchor  
  (see sheet 8 of 12)  
- Post Cover - Existing Post with Concrete Anchor  
  (see sheet 9 of 12)  
- Removable - Anchor Casting in New Concrete  
  (see sheet 10 of 12)  
- Removable - Concrete Insert Anchor in Existing Concrete  
  (see sheet 11 of 12)  
- Removable - Premium Retractable in New Concrete  
  (see sheet 12 of 12)

For more information on bollard post installation, please visit: [www.reliance-foundry.com/bollard/installation-bollards](http://www.reliance-foundry.com/bollard/installation-bollards)

**Care and Maintenance:**
Reliance's line of bollards are finished with a long-lasting powder coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at: [www.reliance-foundry.com/bollard/maintenance-bollards](http://www.reliance-foundry.com/bollard/maintenance-bollards)
Bollard R-7591

General Description:
The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:
Height: 31 3/4"
Base Diameter: 10 1/4"
Weight: 79 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size: 4 1/2" x 25" (Diameter x Height)

Finish Options:
- Polyester Powdercoated

Installation Options:
- Fixed - Anchor Casting in New Concrete (see sheet 4 of 12)
- Fixed - Anchor Casting with Concrete Form (see sheet 9 of 12)
- Fixed - Adhesive Anchor in Existing Concrete (see sheet 4 of 12)
- Fixed - Anchor Casting with Concrete Form (see sheet 5 of 12)
- Post Cover - New Post in New Concrete (see sheet 6 of 12)
- Post Cover - New Post in Existing Concrete (see sheet 7 of 12)
- Post Cover - Existing Post with Adhesive Anchor (see sheet 8 of 12)
- Post Cover - Existing Post with Concrete Anchor (see sheet 9 of 12)
- Removable - Anchor Casting in New Concrete (see sheet 10 of 12)
- Removable - Anchor Casting in Existing Concrete (see sheet 11 of 12)
- Removable - Concrete Insert Anchor in Existing Concrete (see sheet 12 of 12)

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Notes:
1) Bollard post is provided as shown. Concrete foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

Tools needed:
1) Measuring tape
2) 1 1/8" wrench
3) 1/16" hex key
4) Hammer drill
5) 1" Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool

Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Notes:
1) Bollard post is provided as shown. Concrete foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
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4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

Tools needed:
1) Measuring tape
2) 1 1/8" wrench
3) 1/16" hex key
4) Hammer drill
5) 1" Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool

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### Bollard R-7591

**General Description:**

The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

**Specifications:**

- **Height:** 31 3/4"  
- **Base Diameter:** 10 1/4"  
- **Weight:** 79 lbs (Bollard Only)  
- **Material:** Ductile Iron  
- **Max. Interior Security Post Size:** 4 1/2" x 25" (Diameter x Height)

**Finish Options:**

- Polyester Powdercoated
- See Reliance Foundry's standard color options at: [www.reliance-foundry.com/bollard/colors-bollards](http://www.reliance-foundry.com/bollard/colors-bollards)

**Installation Options:**

- Fixed - Anchor Casting in New Concrete (see sheet 2 of 12)
- Fixed - Concrete Insert Anchor in Existing Concrete (see sheet 3 of 12)
- Fixed - Adhesive Anchor in Existing Concrete (see sheet 4 of 12)
- Fixed - Anchor Casting with Concrete Form (see sheet 5 of 12)
- Removable - Anchor Casting in New Concrete (see sheet 9 of 12)
- Removable - Concrete Insert Anchor in Existing Concrete (see sheet 10 of 12)
- Removable - Premium Retractable in New Concrete (see sheet 11 of 12)
- Removable - Premium Retractable in New Concrete (see sheet 12 of 12)

For more information on bollard post installation, please visit: [www.reliance-foundry.com/bollard/installation-bollards](http://www.reliance-foundry.com/bollard/installation-bollards)

**Care and Maintenance:**

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry’s maintenance guide at: [www.reliance-foundry.com/bollard/maintenance-bollards](http://www.reliance-foundry.com/bollard/maintenance-bollards)

**Notes:**

1. Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4. Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Tools needed:**

1. Measuring tape  
2. 1 1/2" wrench  
3. 3/16" hex key

**Notes:**

1) Ensure top of anchor casting is level and flush with finished concrete grade.  
2) Wait until concrete is cured.  
3) Tighten removable mount with 1" washer and 1" bolt.  
4) Align and insert lock pin through bollard base.  
5) Turn bollard base clockwise to tighten it into position.  
6) Fasten the padlock.

**NEW Concrete Install**

---

### Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>R7591B</td>
<td>R7591 Base</td>
<td>Ductile Iron Powder Coated</td>
<td>60 lbs</td>
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<tr>
<td>2</td>
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<td>R7591 Cap</td>
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<td>19 lbs</td>
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<tr>
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<td>Washer 1&quot; OD 2&quot;</td>
<td>Washer 1&quot; OD 2&quot; Thick 1/8&quot;</td>
<td>Steel Plated</td>
<td>1/8 lbs</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Hex Bolt 1&quot; x 1 1/2&quot;</td>
<td>Hex Bolt 1&quot; x 1 1/2&quot; - requires 1 1/2&quot; wrench</td>
<td>Steel Plated</td>
<td>5/8 lbs</td>
</tr>
<tr>
<td>7</td>
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<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
<td>1/2 lbs</td>
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<td>Padlock (Brass or Stainless Steel)</td>
<td>Choice of Brass or Stainless Steel</td>
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**Notes:**

1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
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General Description:
The R-7591 Decorative Bollard features a classic design, suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:
Height: 31 3/4"
Base Diameter: 10 1/4"
Material: Ductile Iron
Max. Interior Security Post Size: 4 1/2" x 25" (Diameter x Height)

Finish Options:
- Polyester Powdercoated

See Reliance Foundry’s standard color options at: www.reliance-foundry.com/bollard/colors-bollards

Installation Options:
- Fixed - Anchor Casting in New Concrete
- Fixed - Concrete Insert Anchor in Existing Concrete
- Fixed - Adhesive Anchor in Existing Concrete
- Fixed - Anchor Casting with Concrete Form
- Post Cover - New Post in New Concrete
- Post Cover - New Post in Existing Concrete
- Post Cover - Existing Post with Adhesive Anchor
- Post Cover - Existing Post with Anchor Casting
- Removable - Anchor Casting in New Concrete
- Removable - Concrete Insert Anchor in Existing Concrete
- Removable - Premium Retractable in New Concrete

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
Reliance’s line of bollards are finished with a long-lasting powder coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

Tools needed:
1) Measuring tape
2) 1 1/8" wrench
3) 3/16" hex key
4) Hammer drill
5) Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key
6) Hammer
7) Drop-in concrete insert setting tool
8) Fasten the padlock.
9) Tighten it into position.
10) Turn bollard base clockwise to tighten it into position.

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
5) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
6) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
7) Drop-in anchor into hole
8) Clean drill hole of debris.
9) Tighten removable mount with 3/8" set screws
10) Use hammer and setting tool to drive plug down.
11) Turn bollard base clockwise to tighten it into position.
12) Fasten the padlock.

PARTS LIST

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
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<td>4 1/2 lbs</td>
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<tr>
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<td>6/8 lbs</td>
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NOT TO SCALE

Sheet 11 of 12

GDP No. R7591

4 0 1
Bollard R-7591

General Description:
The R-7591 Decorative Bollard features a classic design suitable for traditional and contemporary environments. R-7591 bollards are made from a versatile ductile iron, featuring decorative fluting and corniced top casting for simple but elegant stature. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:
- Height: 31 3/4"
- Base Diameter: 10 1/4"
- Material: Ductile Iron
- Weight: 79 lbs (Bollard Only)

Optional Padlock (Brass or Stainless Steel)

Finish Options:
- Polyester Powdercoated

Installation Options:
- Fixed - Anchor Casting in New Concrete
- Fixed - Concrete Insert Anchor in Existing Concrete
- Fixed - Adhesive Anchor in Existing Concrete
- Fixed - Anchor Casting with Concrete Form
- Post Cover - New Post in New Concrete
- Post Cover - New Post in Existing Concrete
- Post Cover - Existing Post with Adhesive Anchor
- Post Cover - Existing Post with Concrete Anchor
- Removable - Anchor Casting in New Concrete
- Removable - Concrete Insert Anchor in Existing Concrete
- Removable - Premium Retractable in New Concrete

Care and Maintenance:
Reliance’s line of bollards are finished with a long-lasting powder coating. Proper care and maintenance are required. Regularly performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements. Minimum sizes provided is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

PARTS LIST

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>R7591B</td>
<td>R7591 Base</td>
<td>Ductile Iron Powder Coated</td>
<td>60 lbs</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>R7591C</td>
<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>R7500</td>
<td>R7500 Retractable Removable Mount w/ Spacer L</td>
<td>Steel Hot Dip Galvanized</td>
<td>17 1/2 lbs</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>R7500 Lock Pin 3/4&quot; x 10&quot;</td>
<td>R7500 Lock Pin 3/4&quot; x 10&quot;</td>
<td>Steel Powder Coated</td>
<td>1 1/2 lbs</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>Padlock (Optional)</td>
<td>Optional Padlock (Brass or Stainless Steel)</td>
<td>Choice of Brass or Stainless Steel</td>
<td>5/8 lbs</td>
</tr>
</tbody>
</table>

Tools needed:
1) Measuring tape
2) 3/16" allen key

Removable - Premium Retractable in New Concrete

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards