BOLT DOWN ASSEMBLY

STRUCTURAL NOTES
1. MATERIAL: ASTM A36 STRUCTURAL STEEL STANDARDS
2. ASSEMBLY: AWS D1.1 WELDING STANDARDS
3. COATING: ASTM A123 HOT-DIP GALVANIZING STANDARDS

BILL OF MATERIAL

<table>
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<tr>
<th>PART</th>
<th>QTY</th>
<th>Description</th>
<th>ITEM #</th>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1/2&quot; Hex Nut Stainless Steel</td>
<td>GPC</td>
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<tr>
<td></td>
<td>.54</td>
<td>Angle 2&quot; x 3&quot; x 1/4&quot;</td>
<td>010-5510320-000</td>
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<td>Hot Dipped Per Lb.</td>
<td>010-5800000-000</td>
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LAYOUT CUT LIST

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<td>Angle 2&quot; x 3&quot; x 1/4&quot;</td>
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**STRUCTURAL NOTES**

1. MATERIAL: ASTM A36 STRUCTURAL STEEL STANDARDS
   CONCRETE MIX-T7

2. ASSEMBLY: AHS D1.1 WELDING STANDARDS
   THE STANDARD DUTY CONCRETE JUNCTION BOX
   STEEL FRAME, LID SUPPORT, AND LID SHALL BE
   PAINTED WITH A BLACK PAINT CONTAINING
   RUST INHIBITORS OR PAINTED WITH A SHOP
   APPLIED, INORGANIC ZINC PRIMER IN
   ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP
   GALVANIZED IN ACCORDANCE WITH ASTM A 112.

3. COATING:
   - CONCRETE JUNCTION BOX
   - STEEL FRAME, UD SUPPORT, AND
   - LID SHAPED WITH A BLACK PAINT CONTAINING
   - RUST INHIBITORS OR PAINTED WITH A SHOP
   - APPLIED, INORGANIC ZINC PRIMER IN
   - ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP
   - GALVANIZED IN ACCORDANCE WITH ASTM A 112.

4. LOADS:
   SUITABLE FOR AASHTO H-20 WHEEL LOADING
   IN OFF-STREET LOCATIONS WHERE NOT
   SUBJECTED TO HIGH-DENSITY TRAFFIC

**GENERAL NOTES**

1. COVERS AVAILABLE TO USE WITH THIS FRAME:
   - 6010830 (J11-TYPE2-DFP)
   - 6010852 (J11-TYPE2-SD)

2. FOR DIAMOND PLATE FRAME DETAILS SEE DWG: 010-6010840-001 REV E.

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**SECTION A-A**

- GALVANIZED BOLT DOWN ANGLE
  - DWG: 010-601780-001

**SECTION B-B**

- HEX COUPLING NUT
  - WITH 5/8" x 18 NC THREADED HOLE
    (2) PLACES

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**DRAWN**
T. BARKER
02/09/10

**CHECKED**
A. LOUCKS

**APPROVED**

---

**WSDOT TYPE 2 CONCRETE BOX**

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**SCALE**
1/" = 1'-0"
SHOP NOTES
1. OVERALL DIMENSIONS HAVE A MAXIMUM ALLOWABLE TOLERANCE OF ±1/32".
2. ALL WELDS ARE 3/32" FILLET WELDS, UNLESS OTHERWISE NOTED.
3. GRIND ALL SHARP EDGES.
4. THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
PART NO. 2
SCALE: 2" = 1'-0"

PART NO. 3
SCALE: 1'-0" = 1'-0"

PART NO. 4
SCALE: 6" = 1'-0"

LAYOUT CUT LIST

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<th>SIZE</th>
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<tbody>
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<tr>
<td>3</td>
<td>1</td>
<td>Flat Bar 3/16&quot; x 1&quot;</td>
<td>1</td>
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<tr>
<td>4</td>
<td>1</td>
<td>Channel 2&quot; x 1/2&quot; x 1/8&quot;</td>
<td>1 1/4</td>
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SHOP NOTES
1. PLASMA PROGRAM NAME: J11-TYPE2-DP-BD
2. CUT w/DAIMOND PATTERN UP
**STRUCTURAL NOTES**

1. **MATERIAL:** 3/4" ASTM A36 STRUCTURAL STEEL STANDARDS.
2. **ASSEMBLY:** AWS D1.1 WELDING STANDARDS.
3. **COATING:** THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
4. **LOADS:** SUITABLE FOR AASHTO H-20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH-DENSITY TRAFFIC.

**GENERAL NOTES**

1. **COVERS AVAILABLE TO USE WITH THIS FRAME**
   - 6010850 (J11-TYPE 2-DP)
   - 6010852 (J11-TYPE 2-DP-BD)
SHOP NOTES

1. OVERALL DIMENSIONS HAVE A MAXIMUM ALLOWABLE TOLERANCE OF ±1/8".
2. ALL WELDS ARE 3/16" FILLET WELDS, UNLESS OTHERWISE NOTED.
3. GRIND ALL SHARP EDGES.
4. THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
**Approved**

Washington State Department of Transportation
HQ Traffic Operations Office

**DATE** February 10, 2010

**TAT**

**Part No. 5**

Scale: 1\(\frac{1}{2}\)" = 1'-0"

**Part No. 2**

Scale: 1'-0" = 1'-0"

**5/16" NC Thread (2 Places)**

*Oldcastle Precast*

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Drawing
T. Barker 02/09/10

Title
J11-TYPE2-DP-FRAME

Unless otherwise specified, all dimensions are in inches.

Tolerances:
- \(X = \pm 1/16\) 005
- \(X = \pm 1/32\) 005
- \(X = \pm .250\) 005

Fraction = \(+/+1/16\)

Angle = \(+/+1\)°

**Layout Cut List**

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<tr>
<td>5</td>
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<td>Angle 1-1/2&quot; x 1-1/2&quot; x 1/4&quot;</td>
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**Shop Notes**

1. Plasma Program Name: J11-TYPE2-DP-FRAME
2. Cut w/Diamond Pattern Up