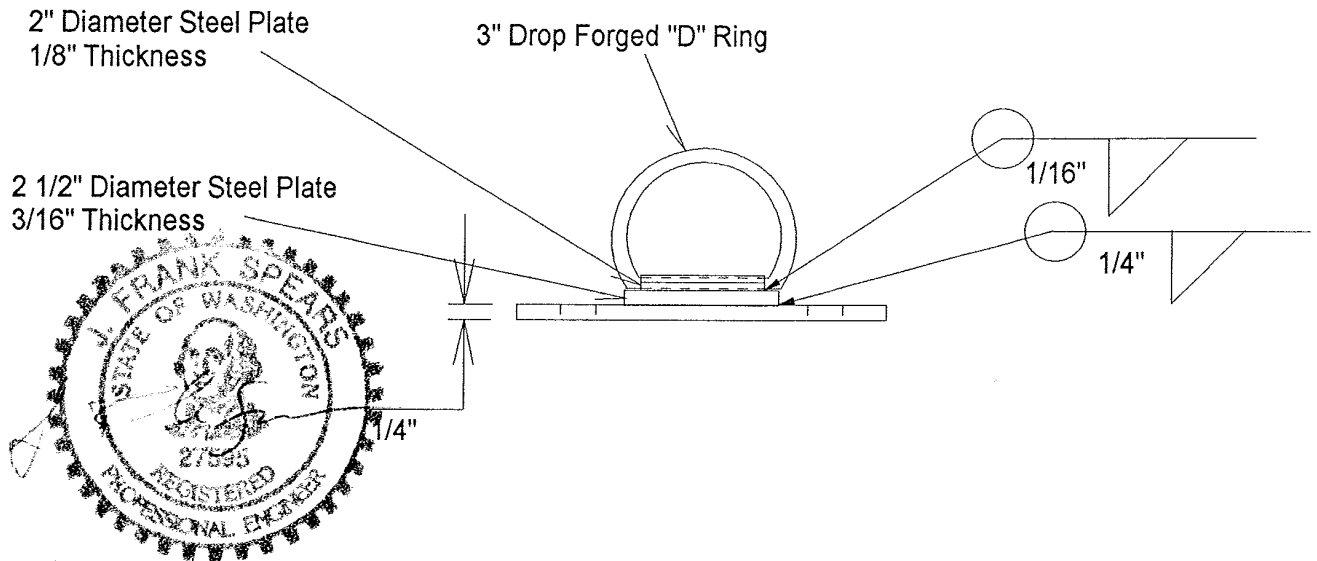


# Side View



Notes:

EXPIRES 6-16-99

Steel Base plate shall be 1/4" hot rolled steel plate that meets ASTM A-570 specifications

2 1/2" diameter steel plate, 3/16" thick attached to base plate using 1/4" fillet weld.

2" diameter formed steel plate, 1/8" thick used to attached "D" ring to the 2 1/2" diameter steel plate using a 1/16" fillet weld.

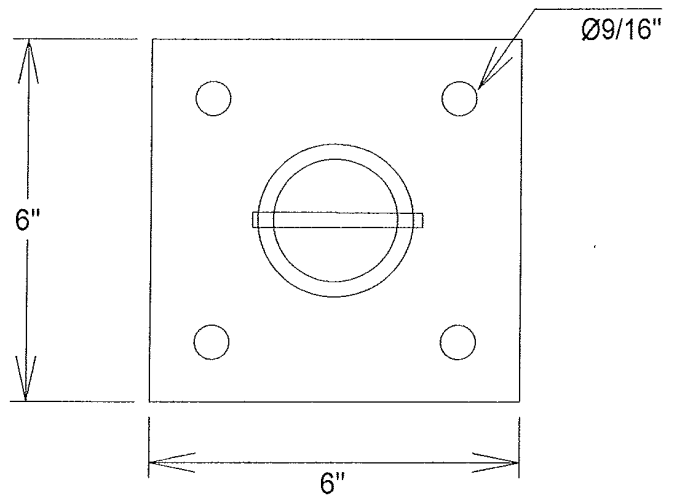
Base plate can be bolted to concrete, steel, or wood as needed per application.

Anchor bolts shall be 1/2" diameter anchor bolts.

Anchor Bolts shall sustain a minimum ultimate pull-out load of at least 6,000 pounds.

Welding shall be performed by a certified welder using E-70xx rod or wire feed.

# Top View



Project:  
Guardian Metal Products  
C.B. Series Fall Protection  
CB-1B Bolt anchored

**SPEARS**  
**ENGINEERING &**  
**TECHNICAL**  
**SERVICES**

P.O. Box 1007  
Auburn, WA 98071-1007  
(206) 833-7967

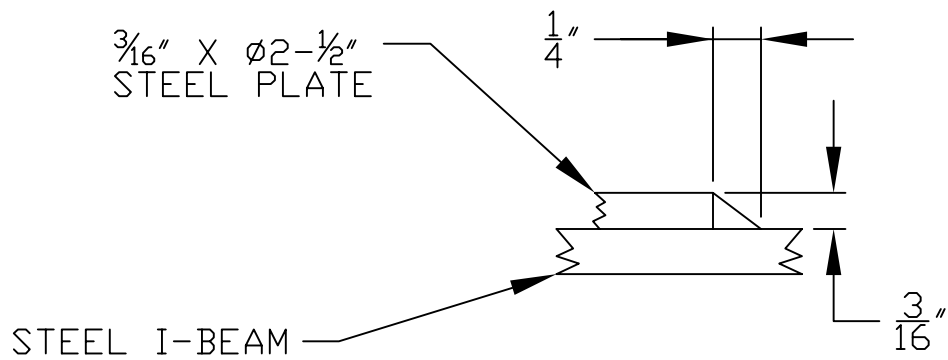
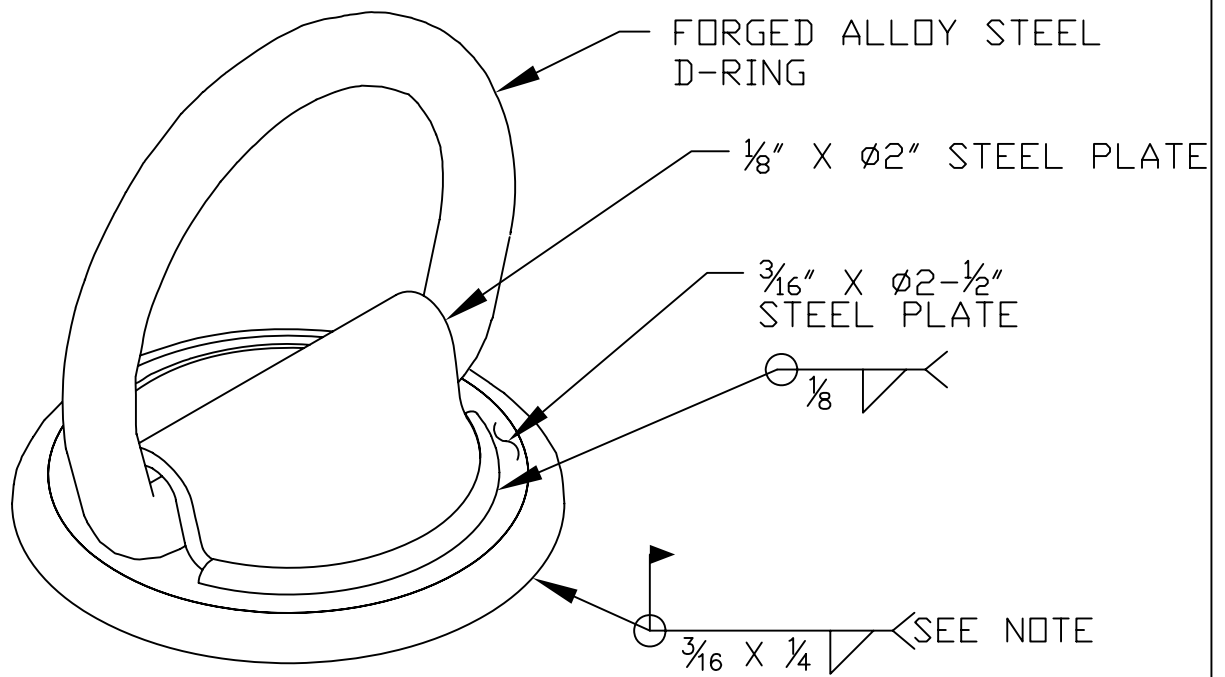
Civil Engineering - Geotechnical Engineering - OA/OC Services

Date:  
8/22/97

Scale:  
n/a

Sheet of  
3 4

SETS' File & Report #:  
96002-024



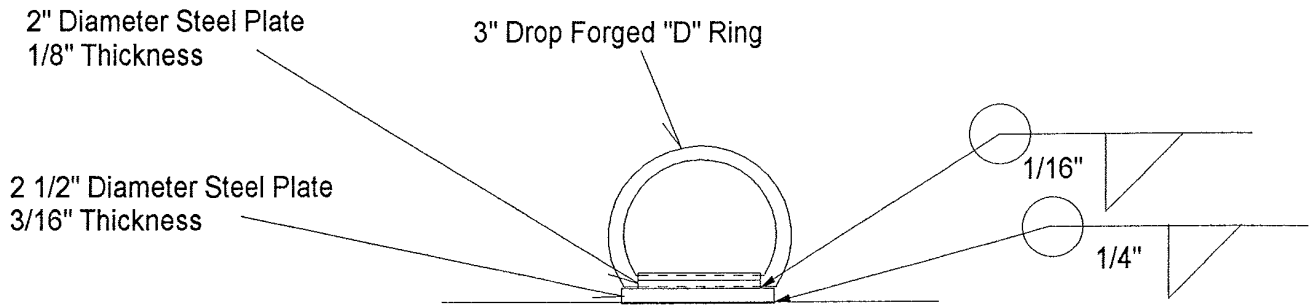
WELD NOTE  
 $\frac{3}{16}$  X  $\frac{1}{4}$  FIELD WELD

**NOTES:**

1. Weld anchor to a steel I-beam capable of resisting a 5,000 lb. load using a  $\frac{3}{16}$ " fillet weld.
2. All welding shall be performed by a certified welder using E-70xx rod or wire feed.

INSTALLATION INSTRUCTIONS		TITLE #00610 CB-1-W WELD-ON ANCHOR			
DESIGNED BY:	06/25/2004	DWG NO. CB-1-W			
DRAWN BY:	06/25/2004	SCALE: NONE		SHEET: 1	
CHECKED BY:	06/25/2004				
APPD BY:	06/25/2004				

# Side View



**Notes:**

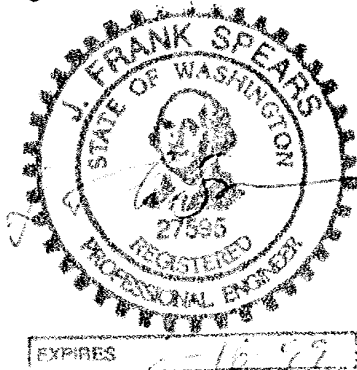
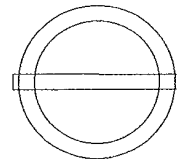
Steel plates shall meet ASTM A-570 specifications

2 1/2" diameter steel plate, 3/16" thick attached to structure using 1/4" fillet weld.

2" diameter formed steel plate, 1/8" thick used to attached "D" ring to the 2 1/2" diameter steel plate using a 1/16" fillet weld.

Welding shall be performed by a certified welder using E-70xx rod or wire feed.

# Top View



<b>Project:</b> Guardian Metal Products C.B. Series Fall Protection CB-1W Weld anchored	<b>SPEARS ENGINEERING &amp; TECHNICAL SERVICES</b> P.O. Box 1007 Auburn, WA 98071-1007 (206) 833-7967 Civil Engineering - Geotechnical Engineering - QA/QC Services	Date: 8/22/97	Sheet      of 4            4
		Scale: n/a	SETS' File & Report #: 96002-024



## CB-1-W Anchor



### APPLICATIONS:

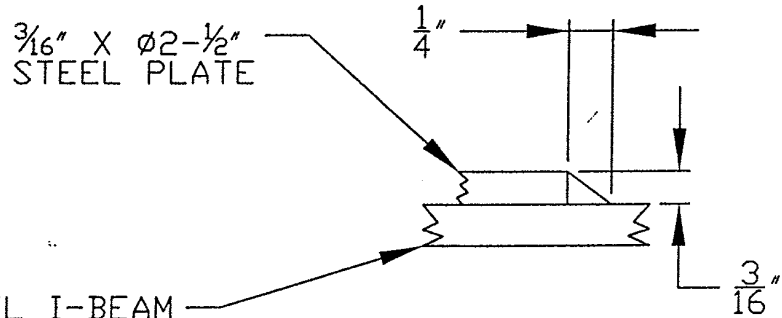
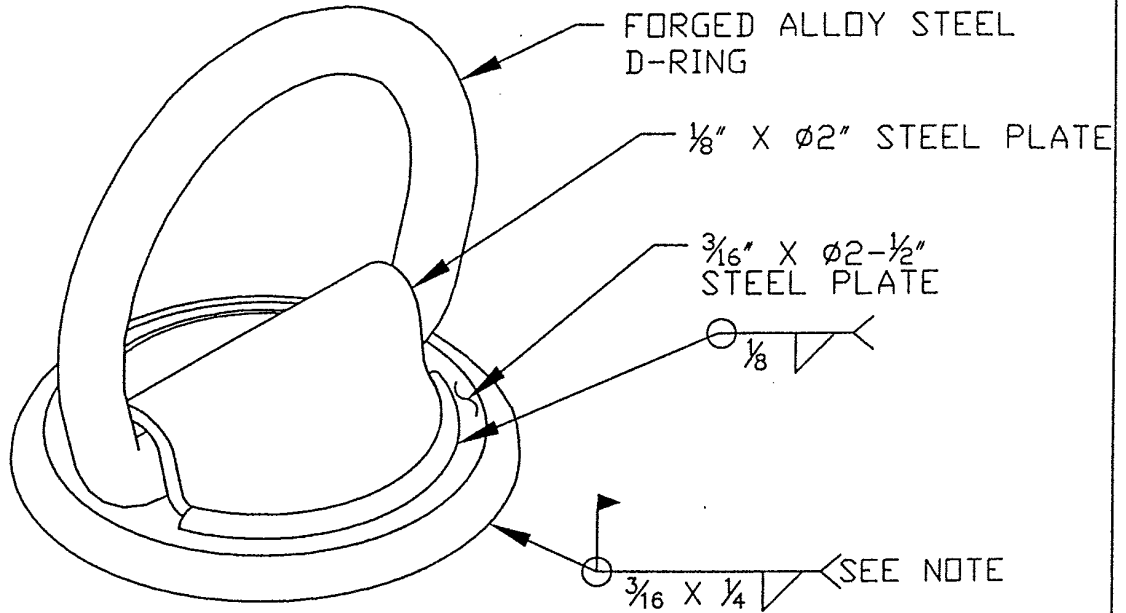
Temporary 5,000 lb anchor for attachment to steel.

### FEATURES:

2 1/2" diameter steel plate with zinc chromate finish. D-ring made of forged steel. Single user attachment. Not for use with horizontal lifeline system.

### PROPER USE:

Must be attached to steel by way of 1/4" fillet weld performed by a certified Welder using E-70xx rod or wire feed.



WELD NOTE  
 $\frac{3}{16}$  X  $\frac{1}{4}$  FIELD WELD

*[Handwritten Signature]*  
 JUN 29 2004

- NOTES:**
1. Weld anchor to a steel I-beam capable of resisting a 5,000 lb. load using a  $\frac{3}{16}$ " fillet weld.
  2. All welding shall be performed by a certified welder using E-70xx rod or wire feed.

INSTALLATION INSTRUCTIONS			TITLE #00610 CB-1-W WELD-ON ANCHOR		<b>GUARDIAN</b> FALL PROTECTION	
DESIGNED BY:	B. WOODYARD	06/25/2004	DWG NO. CB-1-W			
DRAWN BY:	PHIL GOMES	06/25/2004	SCALE: NONE		SHEET: 1	
CHECKED BY:	MATT VOLLMER	06/25/2004				
APPD BY:	MATT VOLLMER	06/25/2004				

Client GUARDIAN

Sheet 1 of 1

Project ANCHOR CB-1-W

Job No. 5983

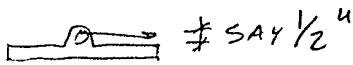
Date 6/28/04

Engineer SEM

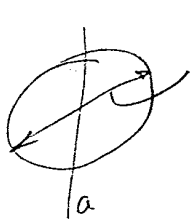
WELD-ON-ANCHOR

LOAD = 5<sup>k</sup>

Disk size c = 2 1/2"



$l = 2\pi r = \pi d = 3.14(2.5) = 7.85$



$I_a = \pi r^3$   
 $S_a = \pi r^2$

$S = \pi \left(\frac{2.5}{2}\right)^2 = 4.9 \text{ in}^2$

$f_w = \frac{5^k}{7.85"} + \frac{5^k(1/2")}{4.9} = 1.15 \text{ k/in}$

Nominal Capacity  $\frac{3}{16}$ " Fillet = 2.71 k

2.71 k > 1.15 k

OK