L-11 Type 4 Heavy Duty Box Detail

Frame
L 2" x 2" x 1/4"

Weld all around stud

Frame stud
3/8" x 6"

Ground stud w/ nut

WWR - Tied in 2 places to frame stud (TYP)

Frame
L 3" x 3" x 1/4"

Hex casing nut
S.S. 5/16-NC x 7/8"
w/ B.S. 5/16-NC x 3/8" bolt

C1015
3/8" x 8" stud

ASTM A82/A185

Welded wire fabric
4x4 W5xW5 (TYP)

(2) #5 Steel
reinforcement bars (TYP)

3" min (TYP)

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Washington State Department of Transportation
HQ Traffic Operations Office
BY: __________________ DATE: 8/10/2018
Type 4 Heavy Duty Frame Detail

0.5" dia x 1.5" long penta-bolt: 302, 304, or 316 SS

0.5" dia flat washer; 302, 304, or 316 SS

0.1875" thick A1011

0.5" dia Nylock nut

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Washington State Department of Transportation
HQ Traffic Operations Office
BY: [Signature] DATE: 3/16/2019

FOGTITE INCORPORATED
J-11 Type 4 Heavy Duty Lid (Bottom) Detail

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Washington State Department of Transportation
HQ Traffic Operations Office
BY: ___________________________ DATE: 8/16/2019

Machine after welding

Typical for all intersections

Both sides

2" x 3" x 0.5" block, Grade 50

0.5" x 1.5" flat bar, A36 (typ.)

2" x 3" x 0.125" handle retainer; ASTM A1011

0.375" dia handle; A36

Flat SS washer

8.8 PIN w/ 1/8" Hole Both Sides

1/8" SS Pin w/ 1/8" Holes

Hinge Assembly Detail; plate pieces A36 steel

FOGTITE INCORPORATED
Type 4 Heavy Duty Lid & Frame (Top) Detail

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Washington State Department of Transportation
HQ Traffic Operations Office
BY: DATE: 5/10/2019

[Diagram of Type 4 Heavy Duty Lid & Frame (Top) Detail]