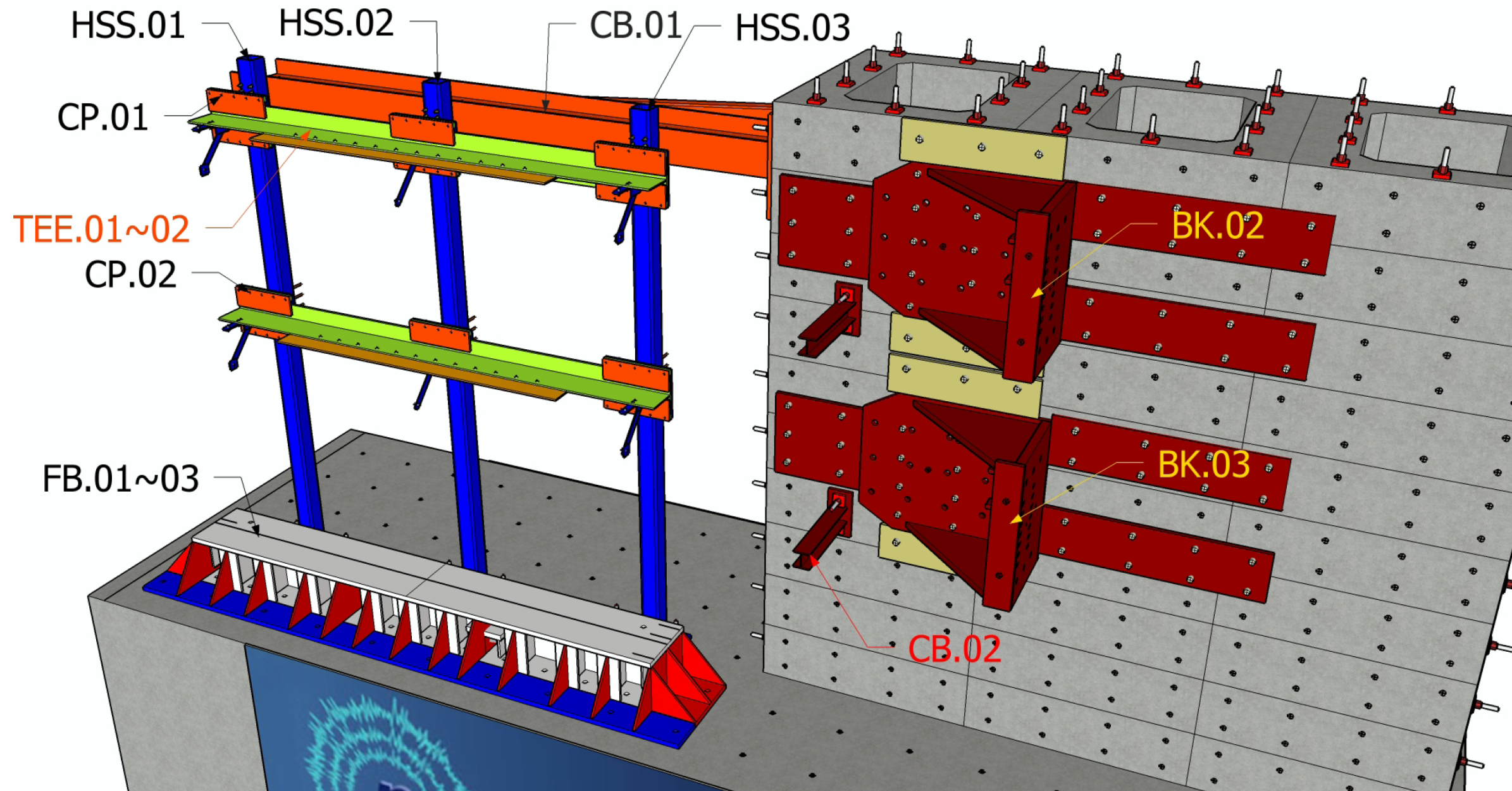

Appendix B

Test Set Up Shop Drawings



SCBF Test Rig

General Notes:

- (1) Tolerance: $\pm \frac{1}{16}$ ".
- (2) Anything unclear please see TR.01 for reference.
- (3) Other questions please email to: adrian.jwlai@berkeley.edu.

Material:

- (1) ASTM A572 GR.50 steel plates and sections.
- (2) ASTM A36 steel plates.
- (3) ASTM A490 bolts and bolt rods.
- (4) E70XX electrode.
- (5) ASTM A500B for HSS sections.

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content

Test Rig
3D Overview

drawn by: Jiun-Wei Lai (Adrian)

checked by: Jiun-Wei Lai (Adrian)

date: Aug. 2008

drawing no.
TR.01



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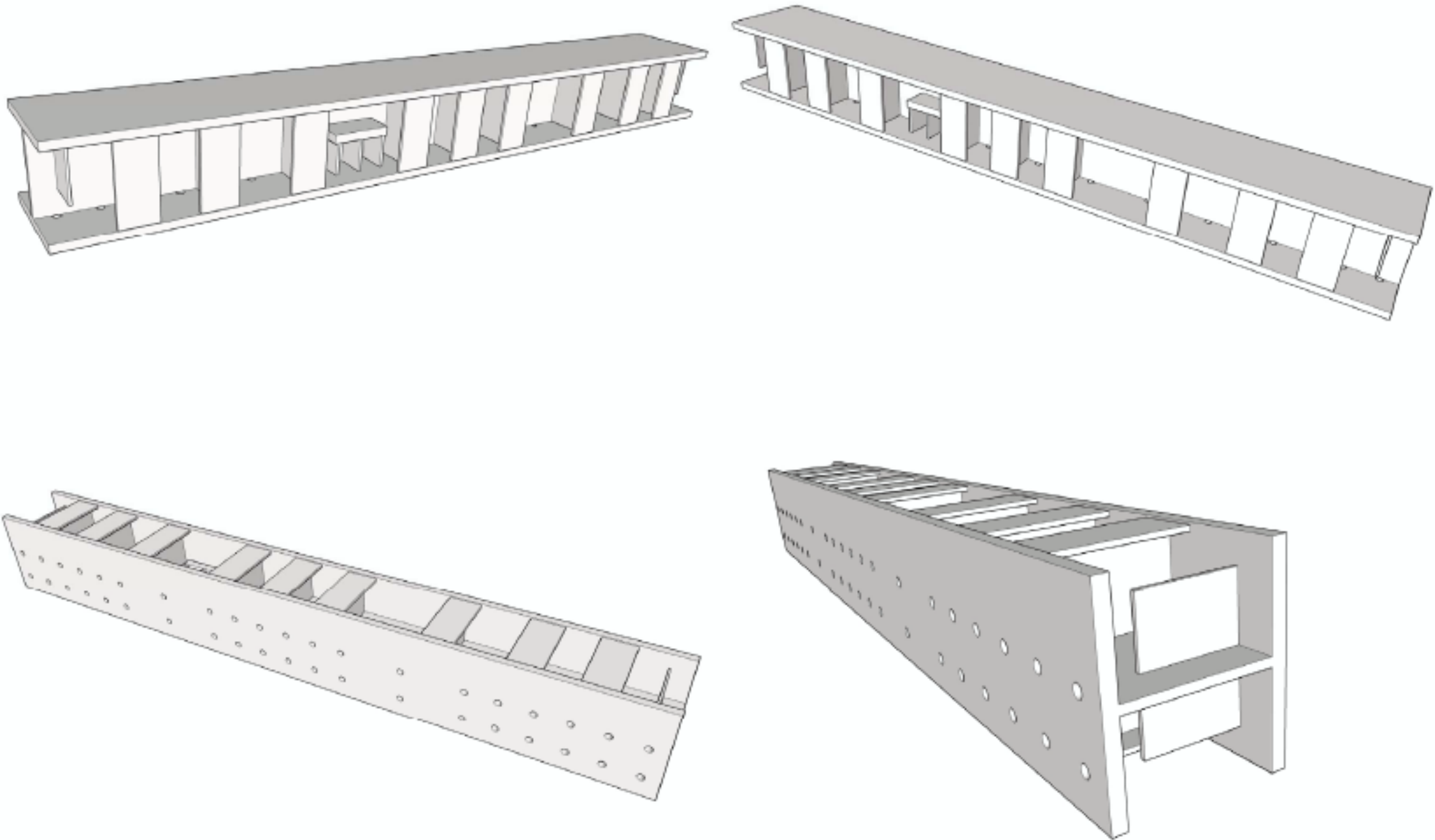
Test Rig
3D Overview

drawn by: Jiun-Wei Lai (Adrian)

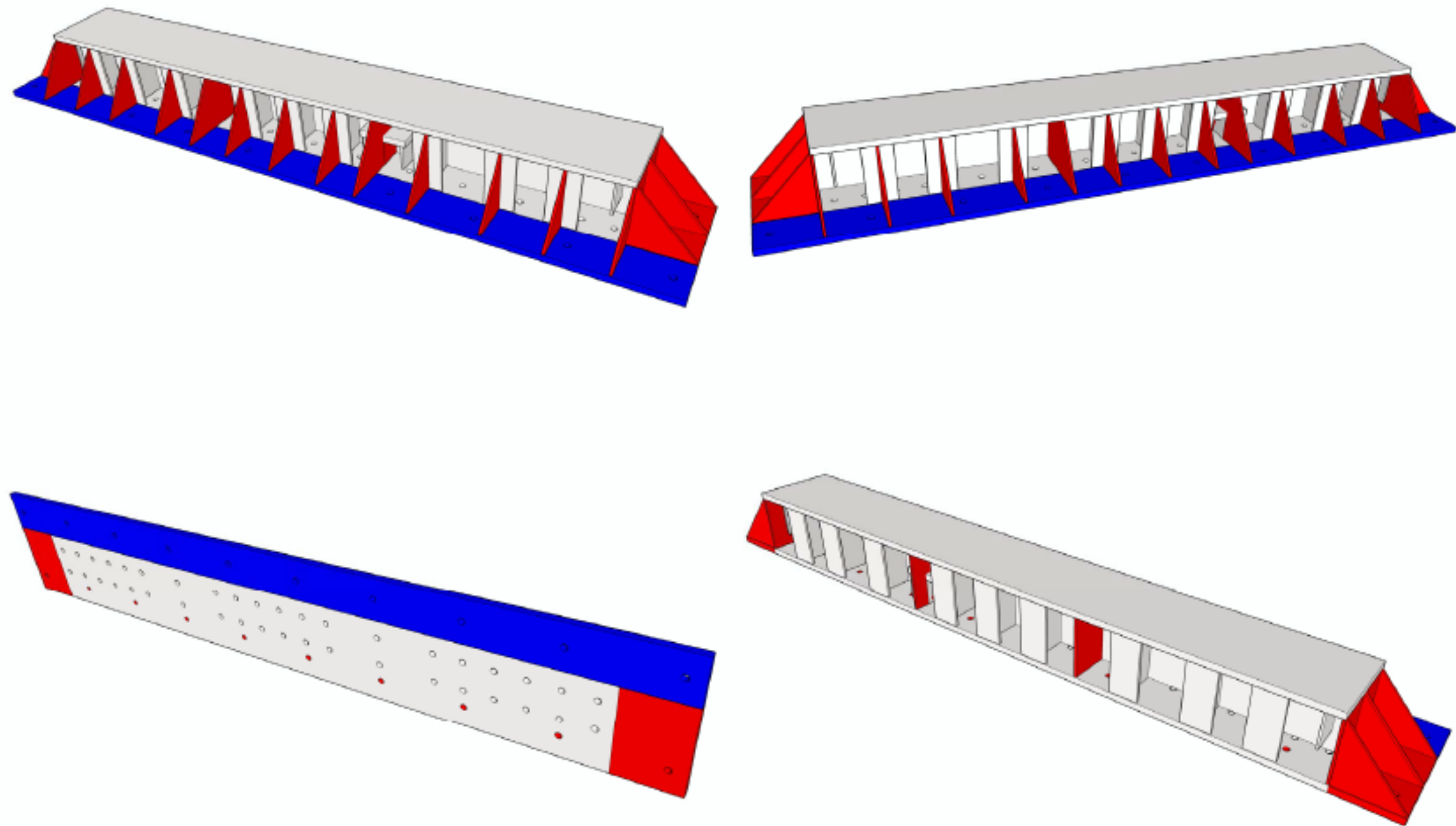
checked by: Jiun-Wei Lai (Adrian)

date: Aug. 2008

drawing no.
TR.01



Filename: SCBF-Test-Rig_Updated.dwg Plotted: 8/27/2008 8:54:53 Plot Device: Adobe PDF Page Setup: ---
Plotted by: Jwlai



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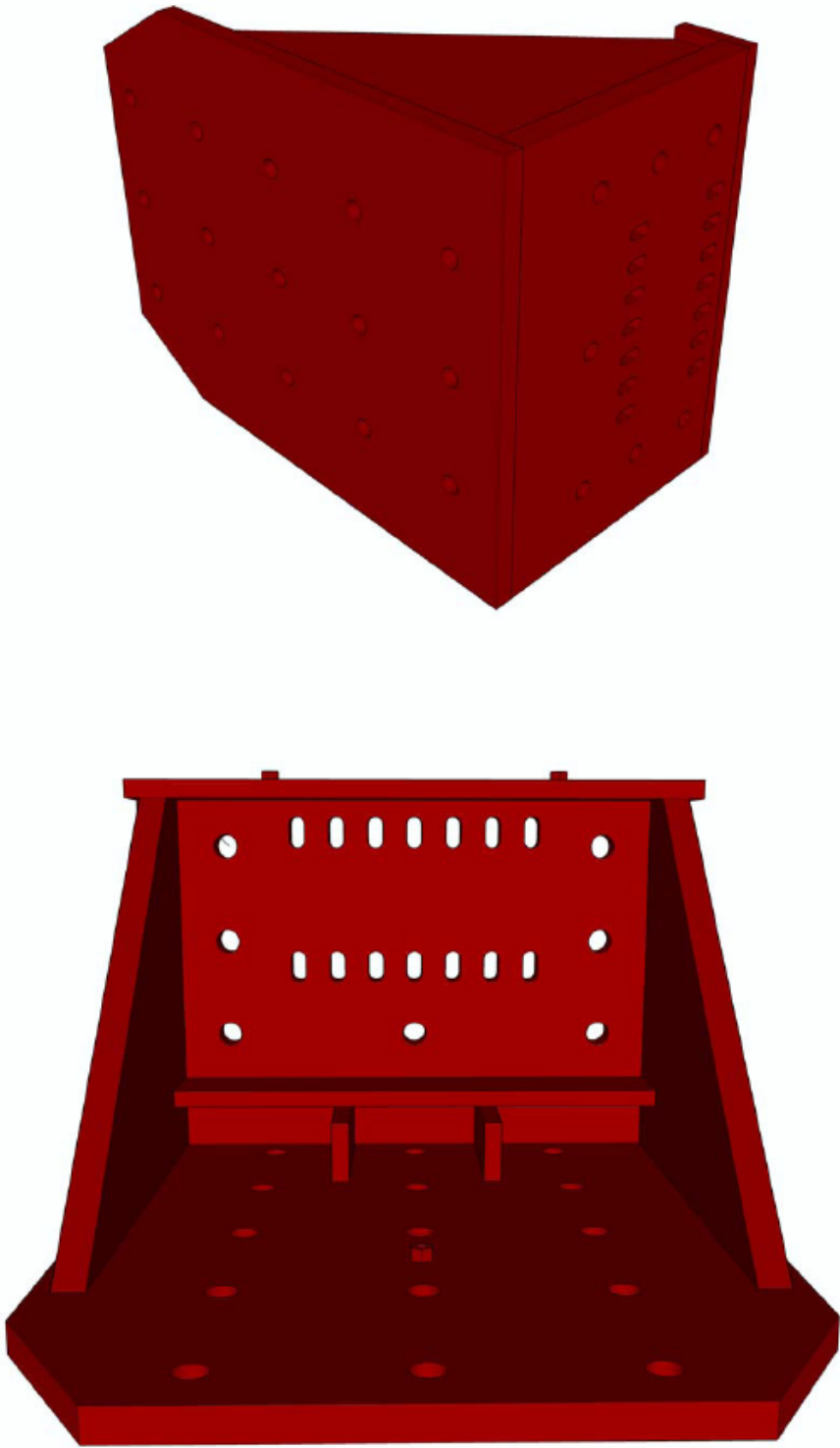
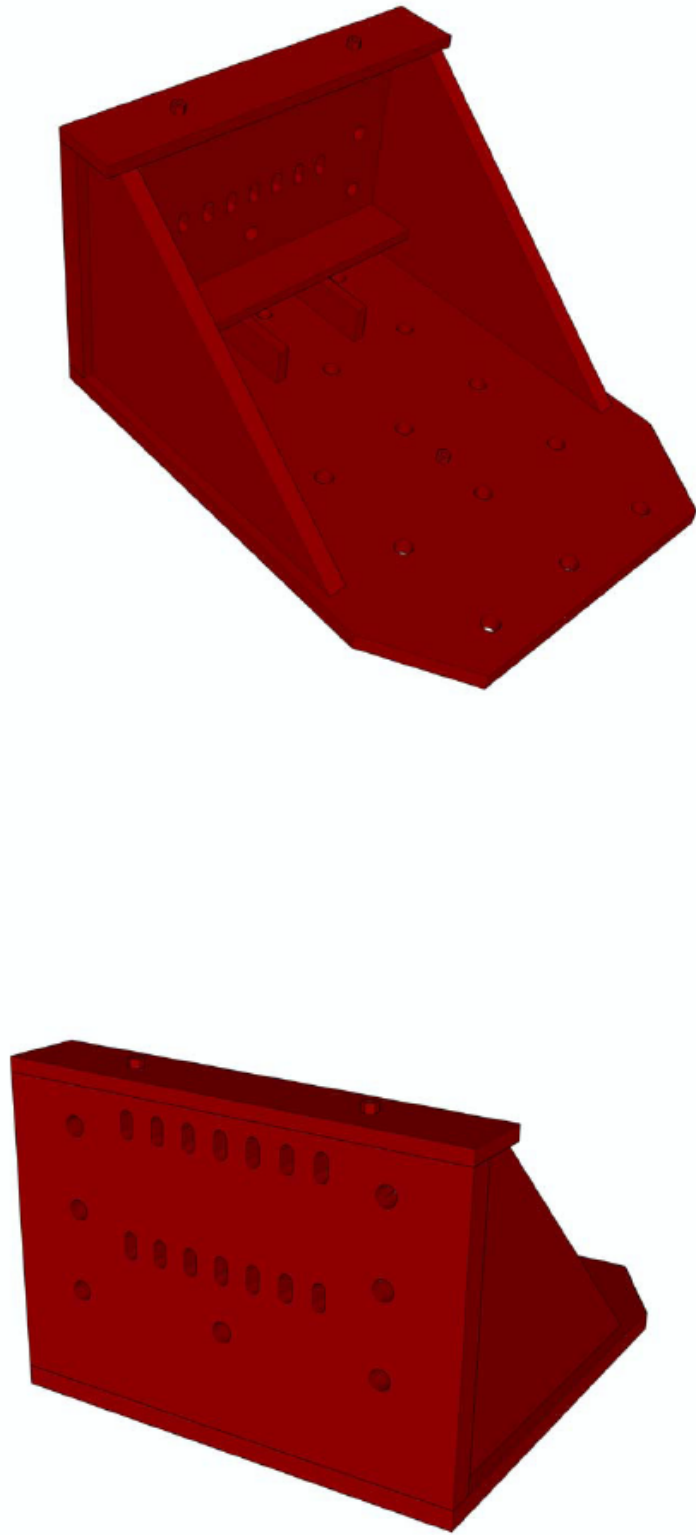
project
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Test Rig
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checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

TR.01



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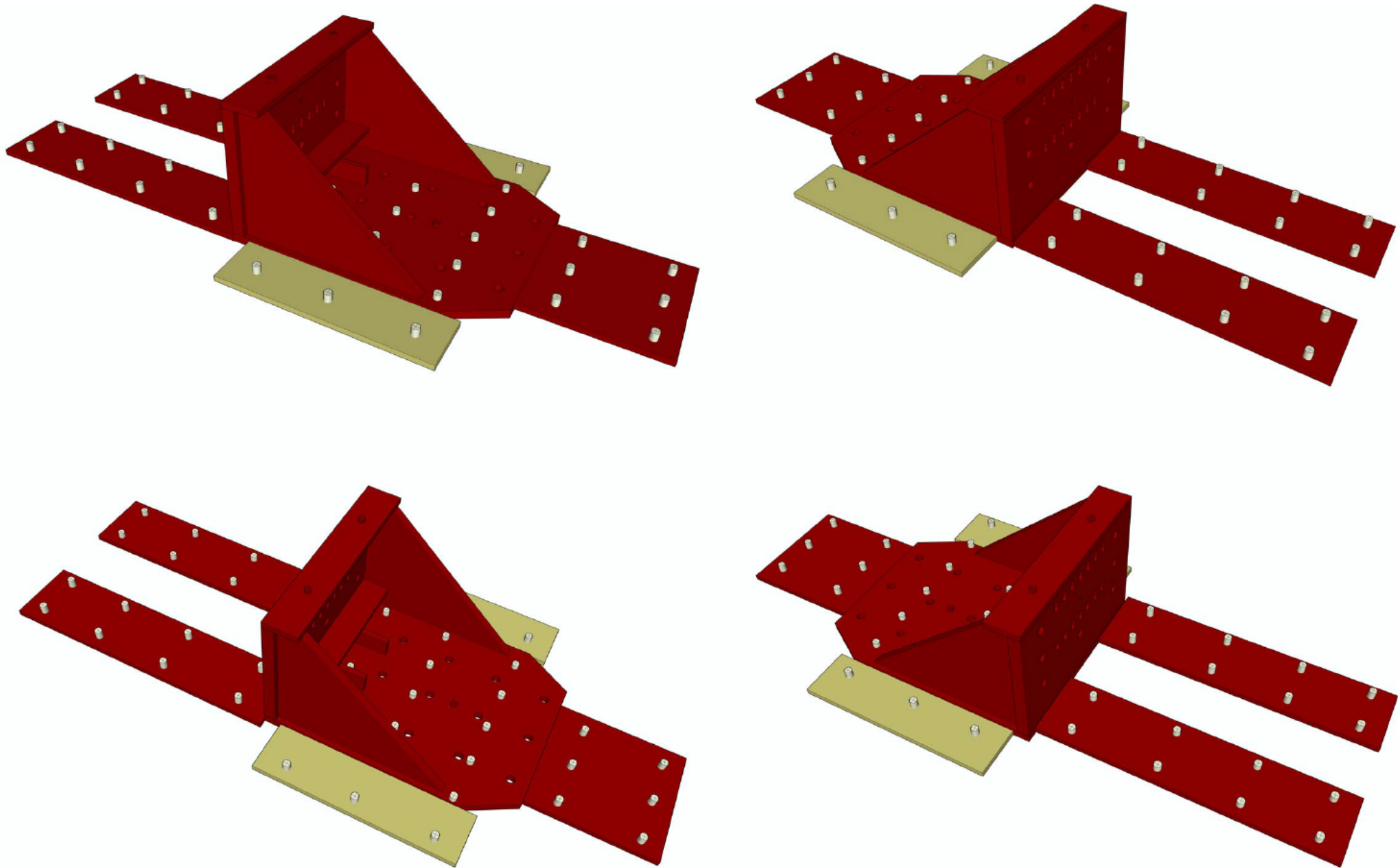
project
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Test Rig
3D Overview

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
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drawing no.

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content

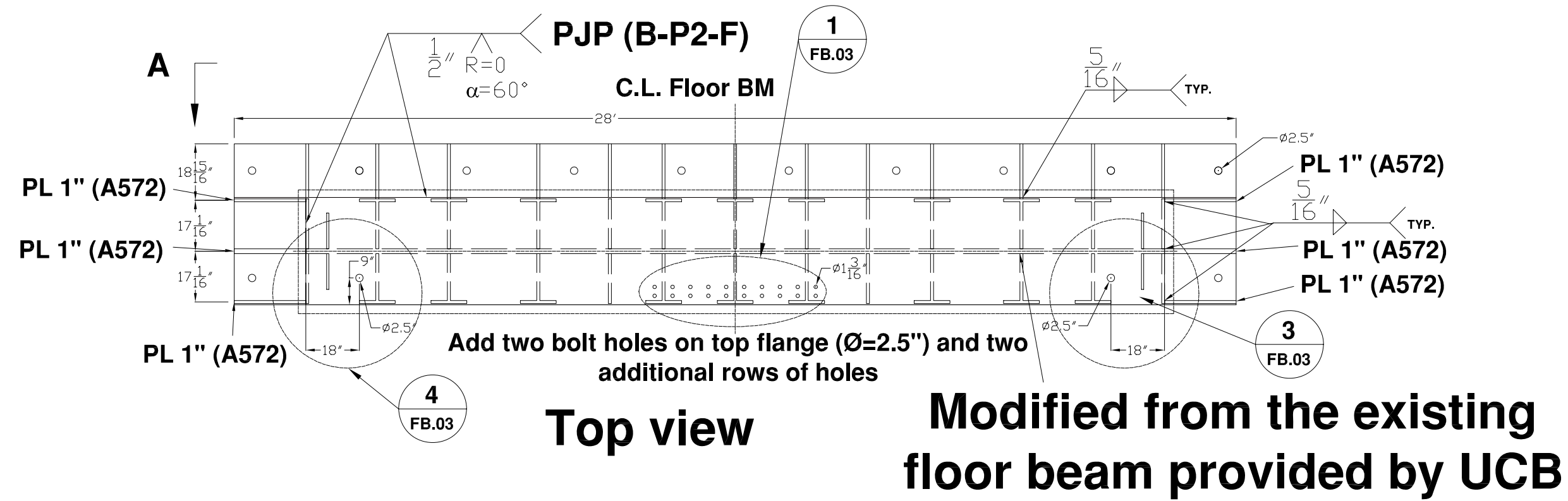
Test Rig
3D Overview

drawn by: Jiun-Wei Lai (Adrian)

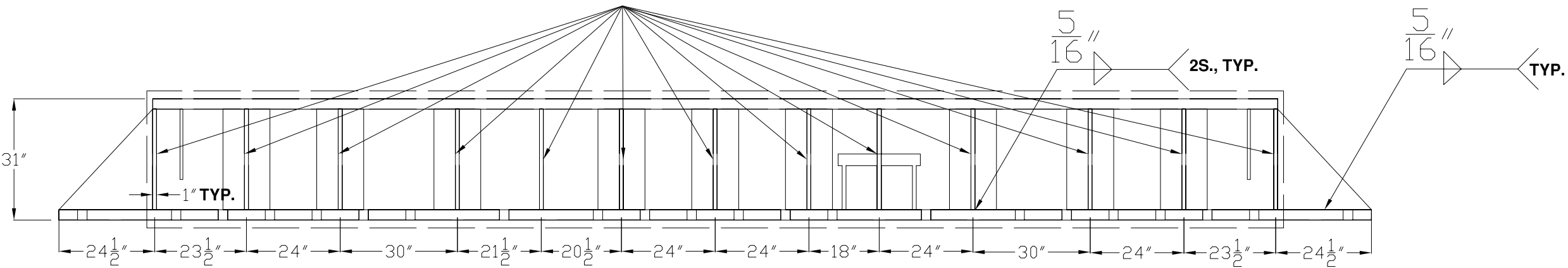
checked by: Jiun-Wei Lai (Adrian)

date: Aug. 2008

drawing no.
TR.01



Total 13 stiffener plates 1" (A572) added this side.



Sideview (Section A)

1 set

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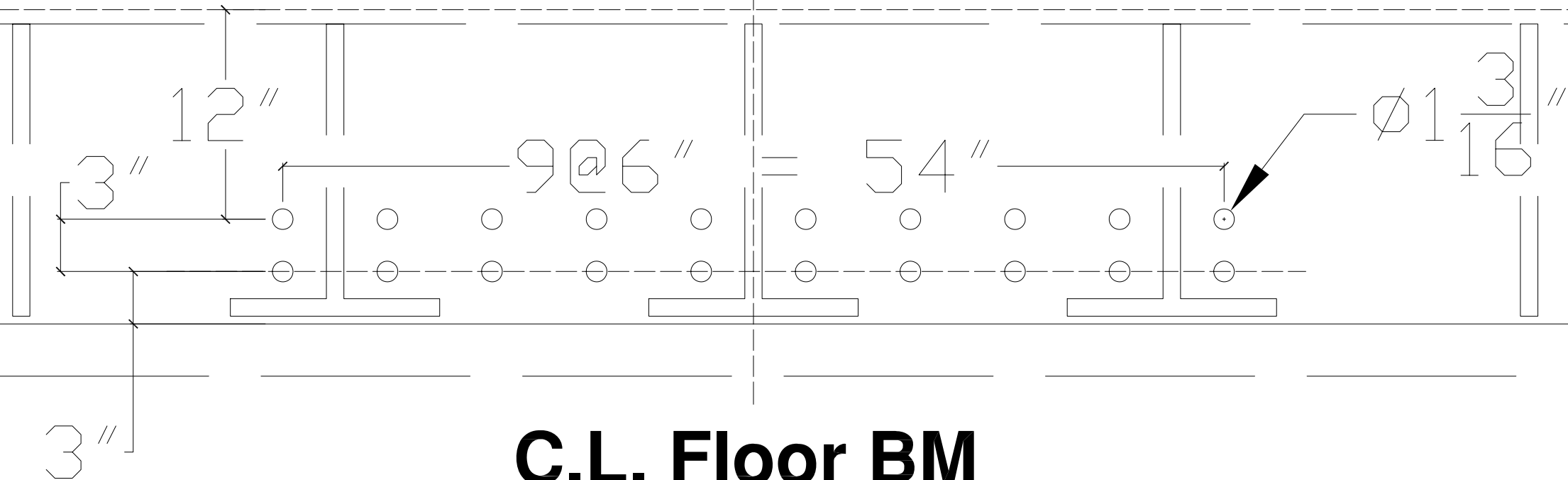
Address
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content
Test Rig
Floor Beam

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no. FB.01

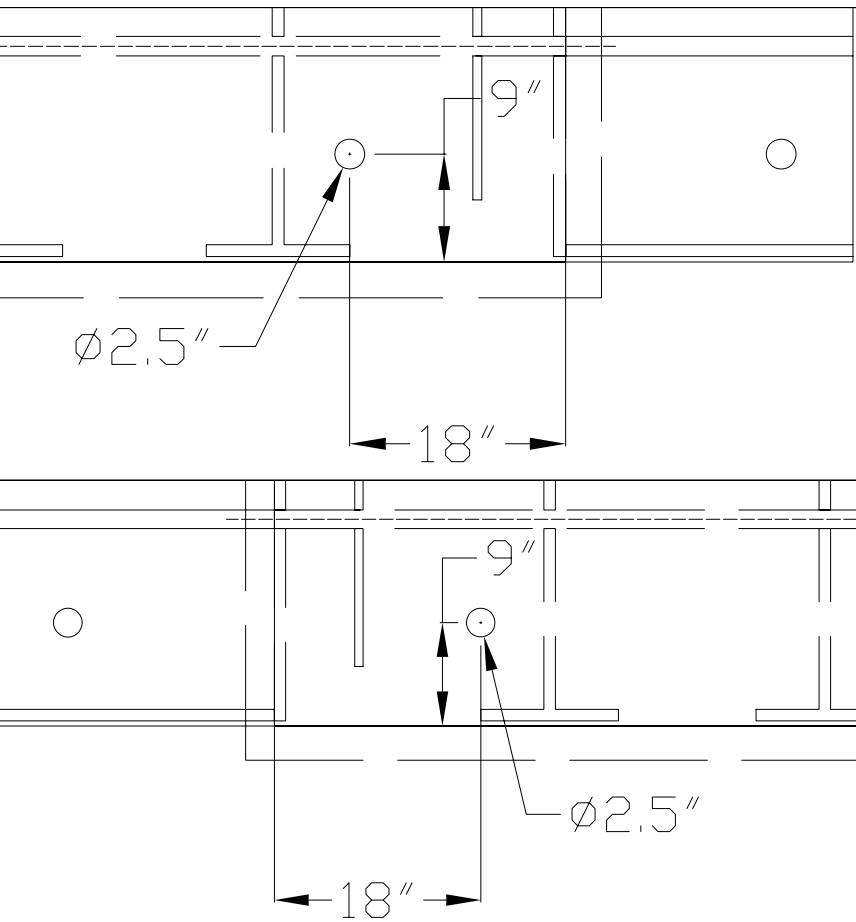
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Page Setup: --- Plotted by: Jwlai

Add two and two additional rows of holes



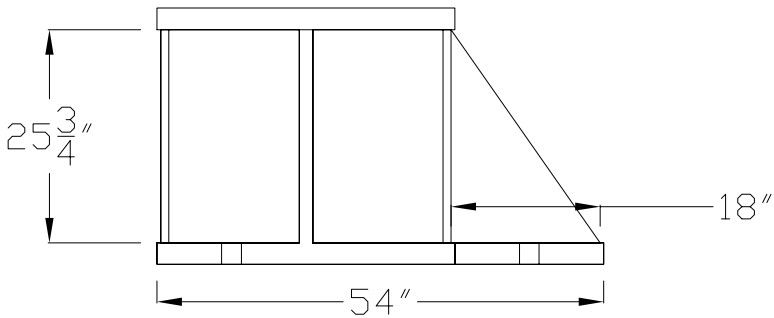
C.L. Floor BM

1



3

4



Section B

2

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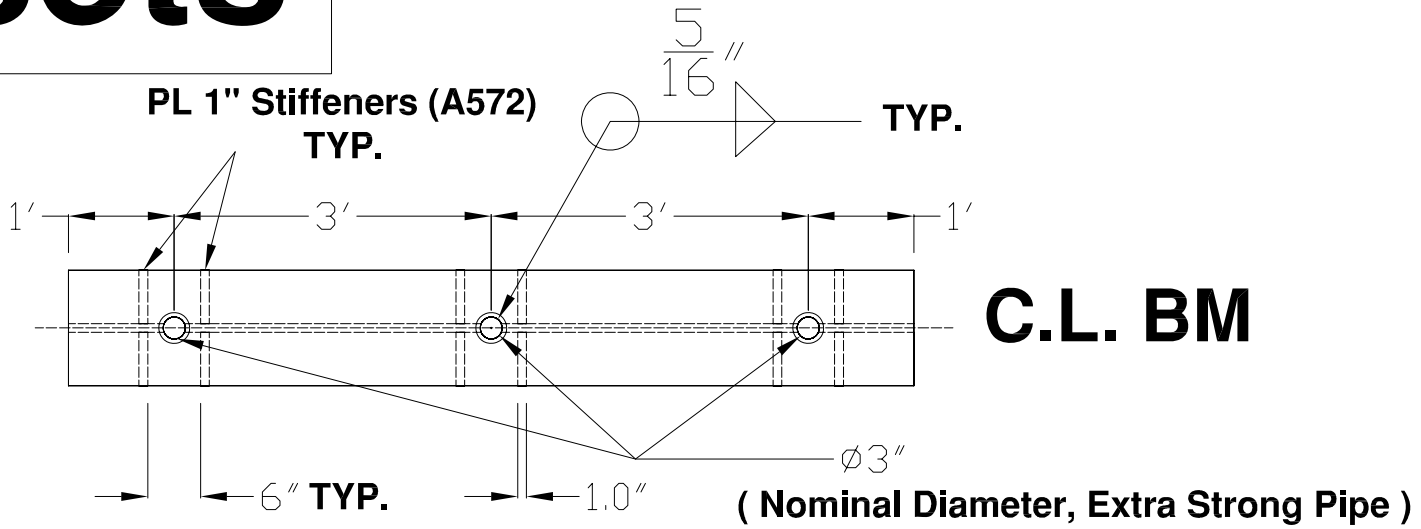
content
Test Rig
Floor Beam

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

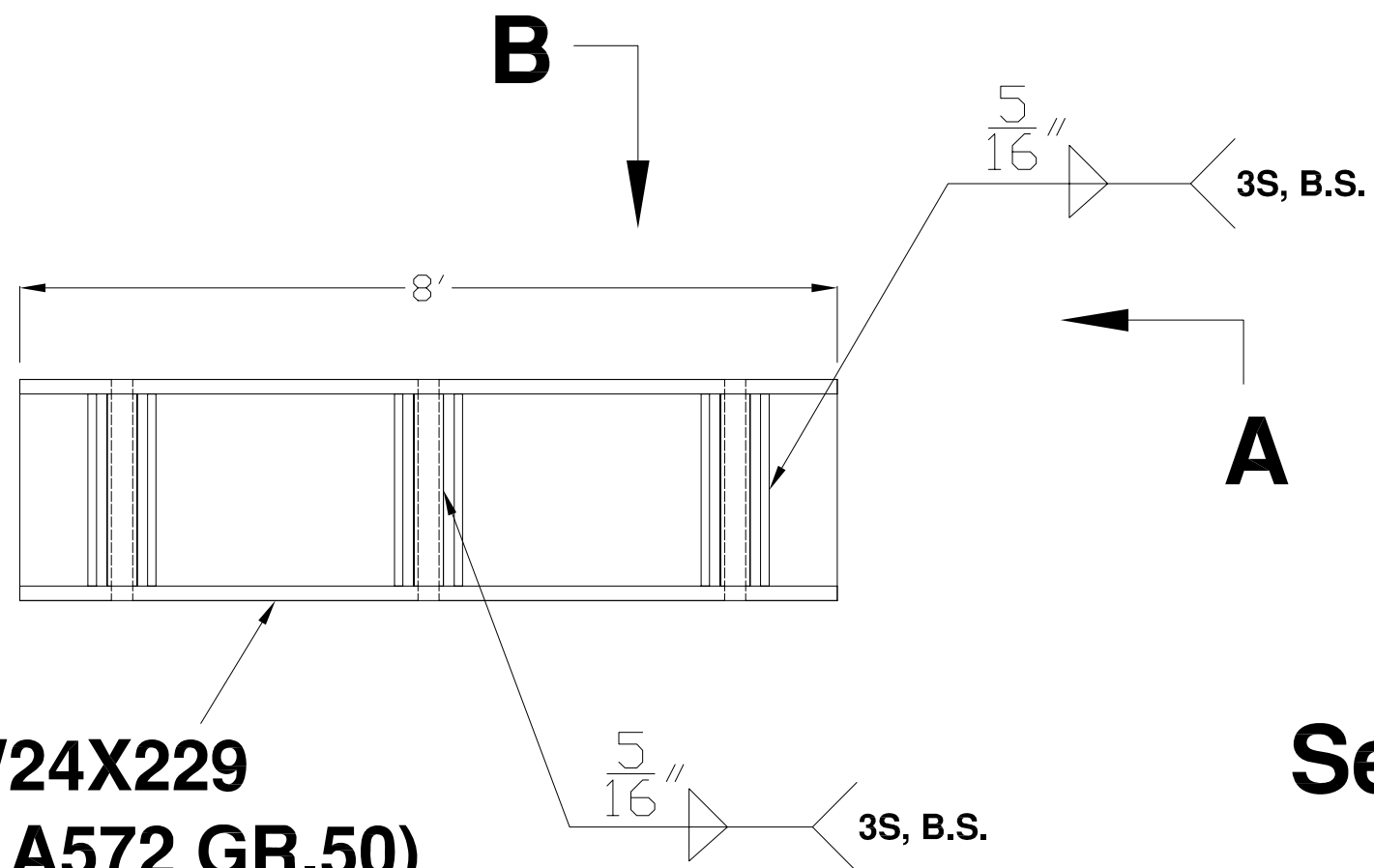
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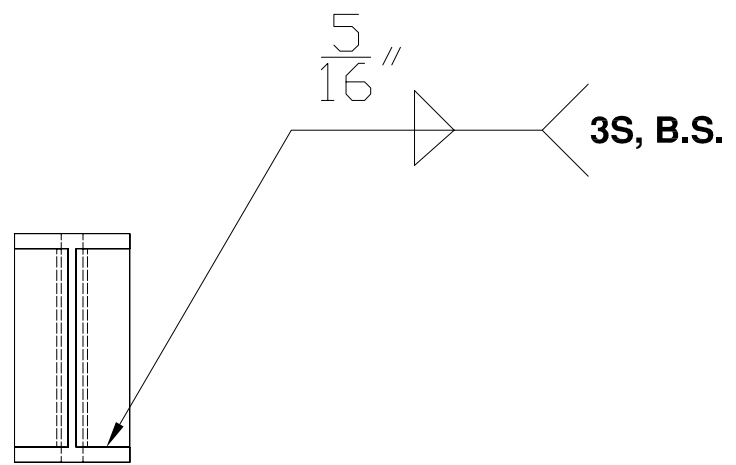
4 sets



Section B



Section A



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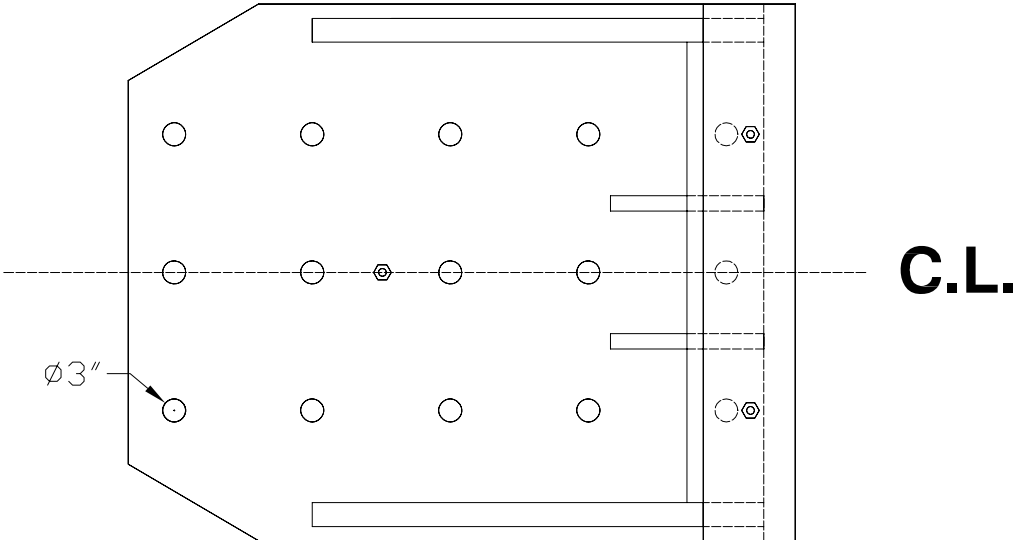
project
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Test Rig
Under Floor Beams

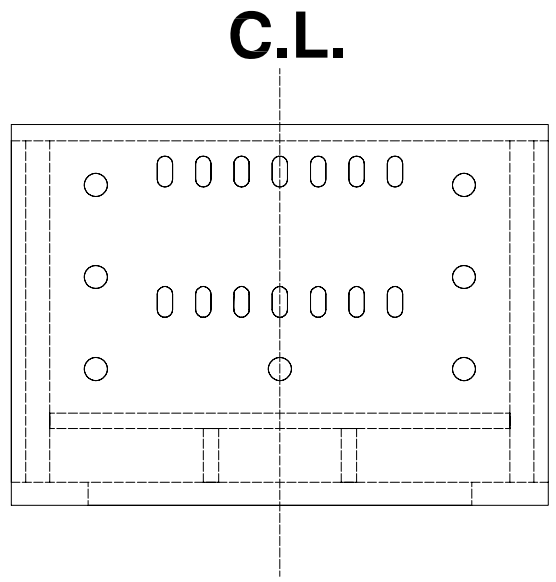
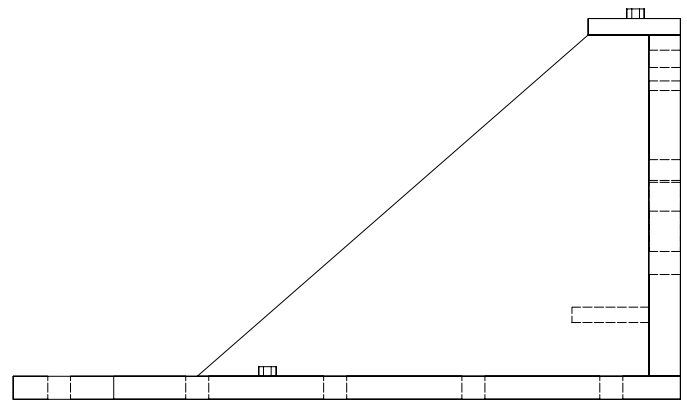
drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no. UB.01

2 sets



Top view

Existing Brackets in UCB Lab



Side view

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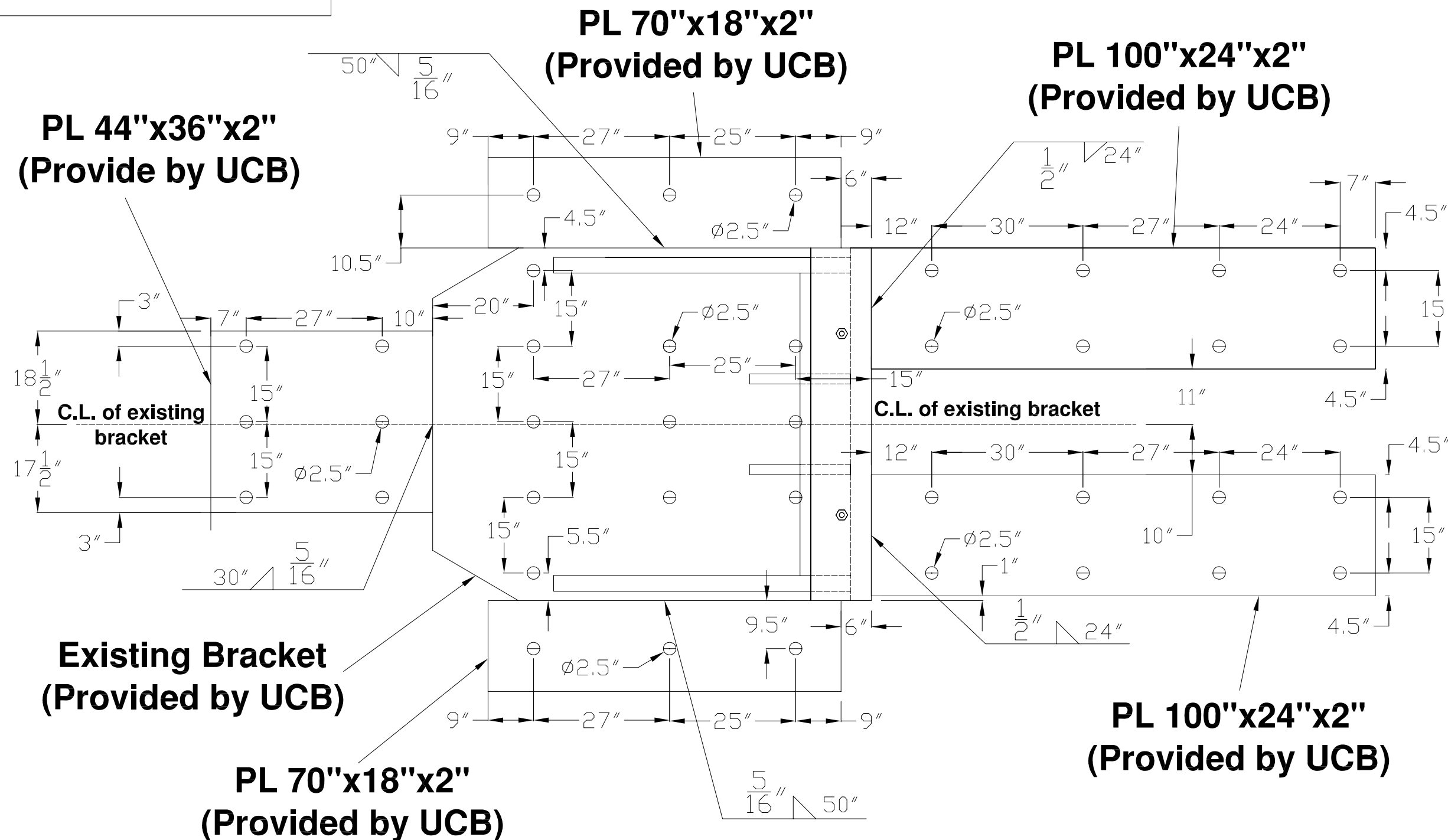
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Test Rig
Existing Brackets (Provided by UCB)

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no. BK.01

Filename: SCBF-Test-Rig_Updated_Check_20081119.dwg Plotted: 11/21/2008 10:28:23 Plot Device: Adobe PDF
Page Setup: --- Plotted by: Jwlai

1 set

Upper Level Bracket



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Test Rig
Upper Level Bracket

drawn by: Jiun-Wei Lai (Adrian)

checked by: Jiun-Wei Lai (Adrian)

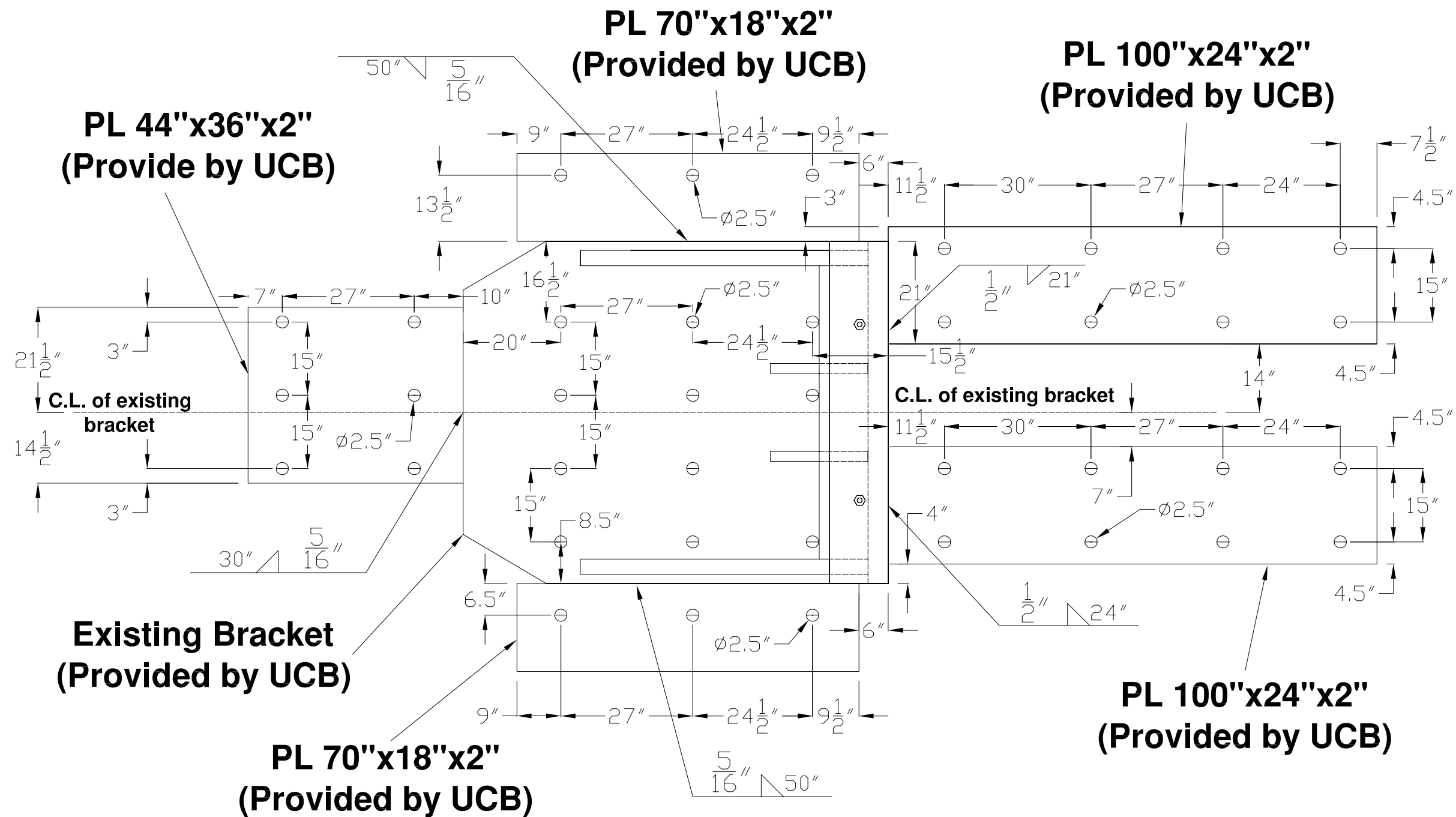
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drawing no.
BK.02

Filename: SCBF-Test-Rig_Updated_Check_20081119.dwg Plotted: 11/21/2008 10:28:43 Plot Device: Adobe PDF
Page Setup: --- Plotted by: Jwlai

1 set

Lower Level Bracket



Top view

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Test Rig
Lower Level Bracket

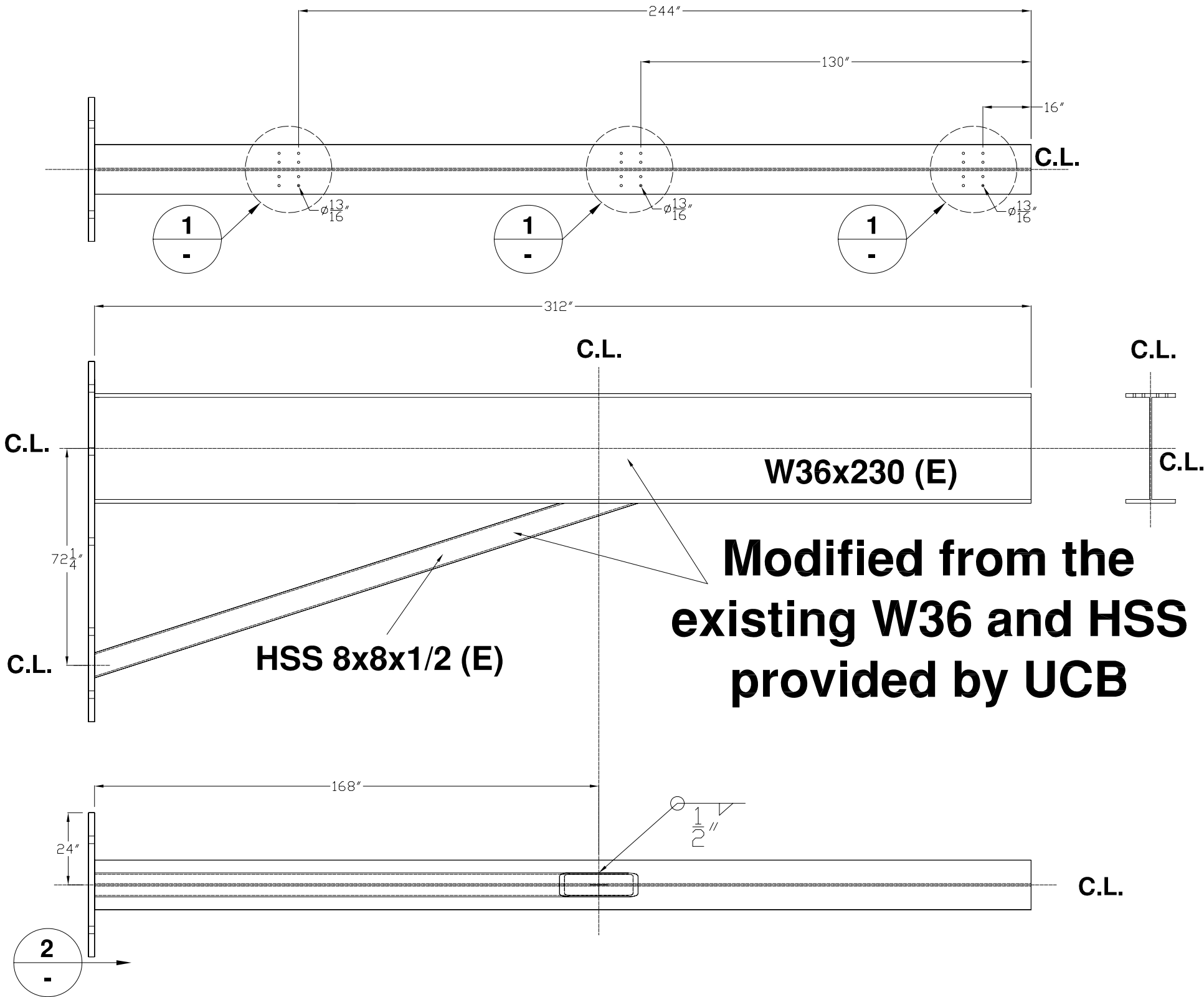
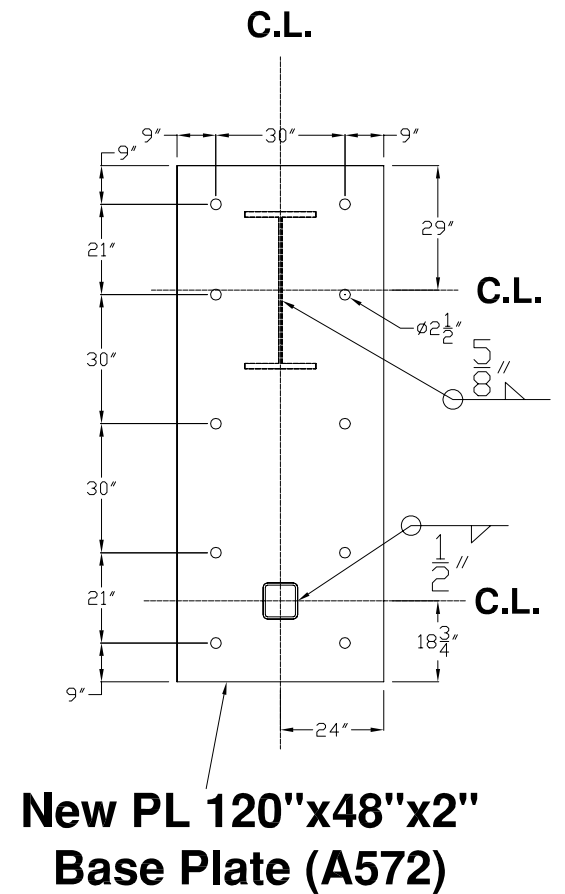
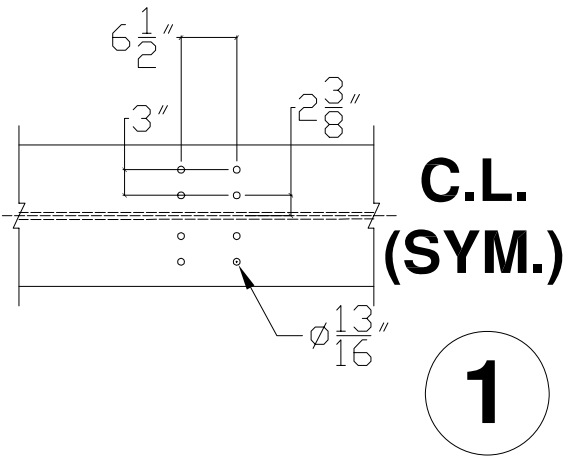
drawn by: Jiun-Wei Lai (Adrian)

checked by: Jiun-Wei Lai (Adrian)

date: Aug. 2008

drawing no.
BK.03

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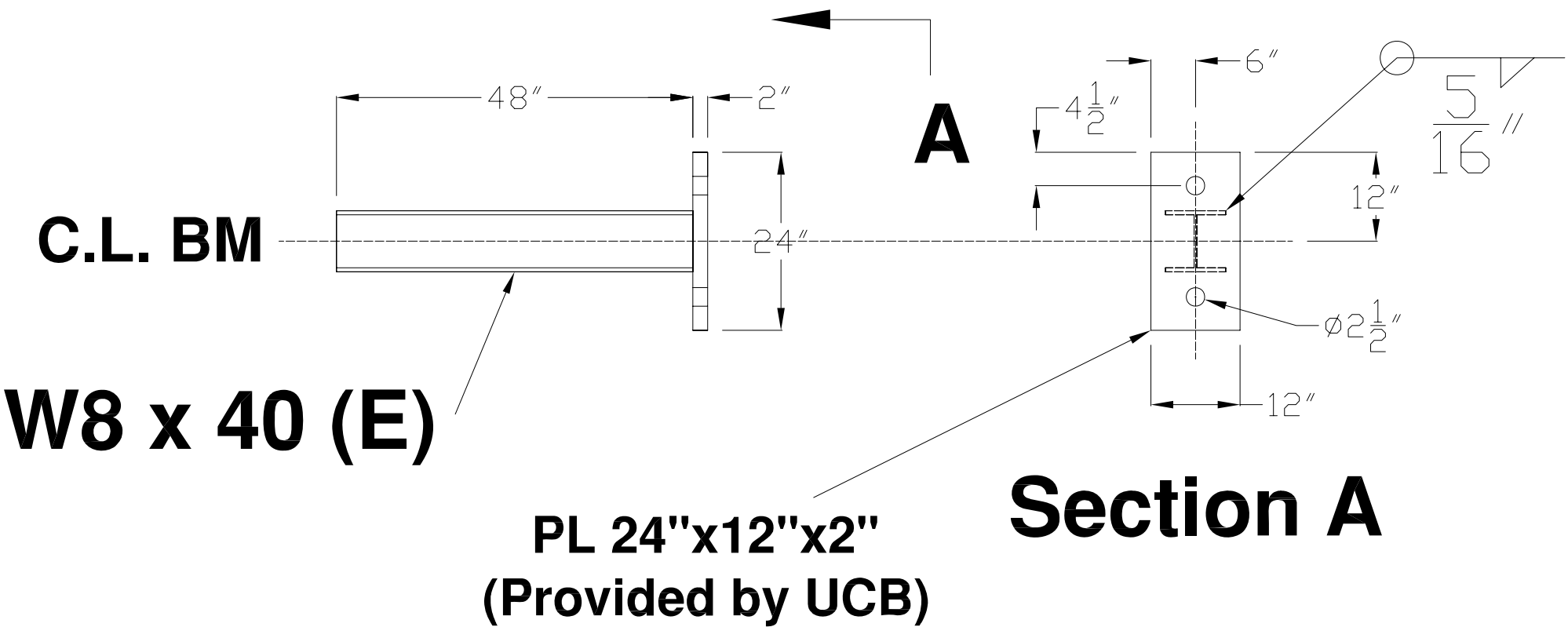
content
Test Rig
Cantilever Beam

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

CB.01

2 sets

Modified from the existing sections and
2" plates provide by UCB



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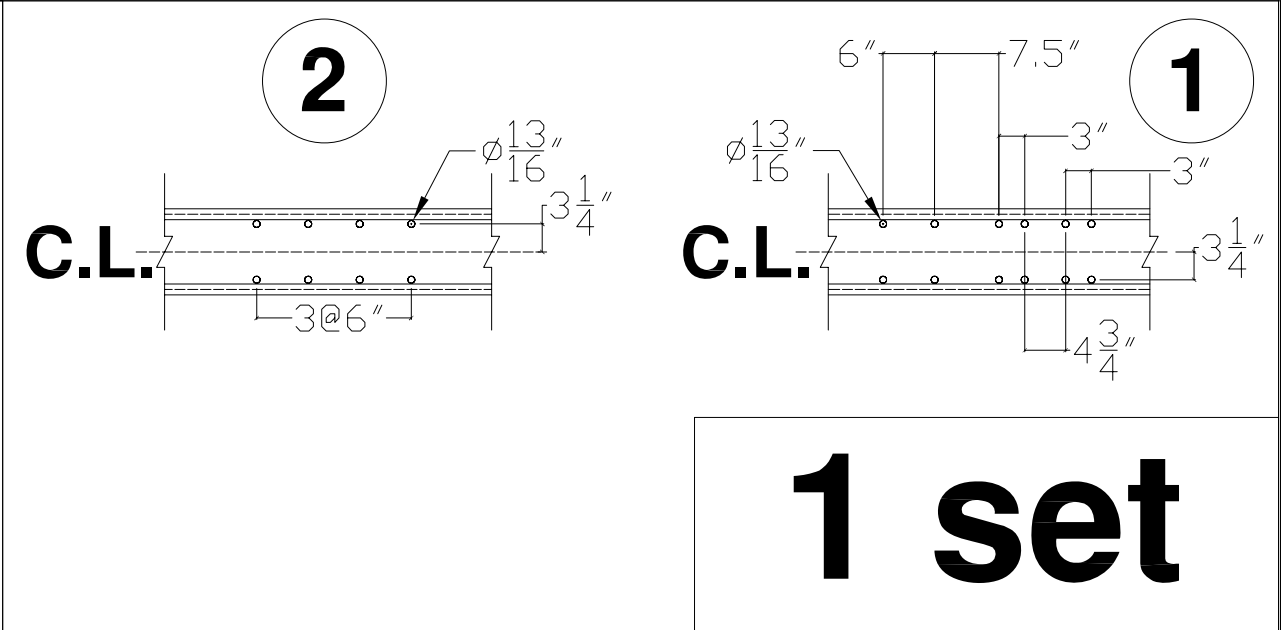
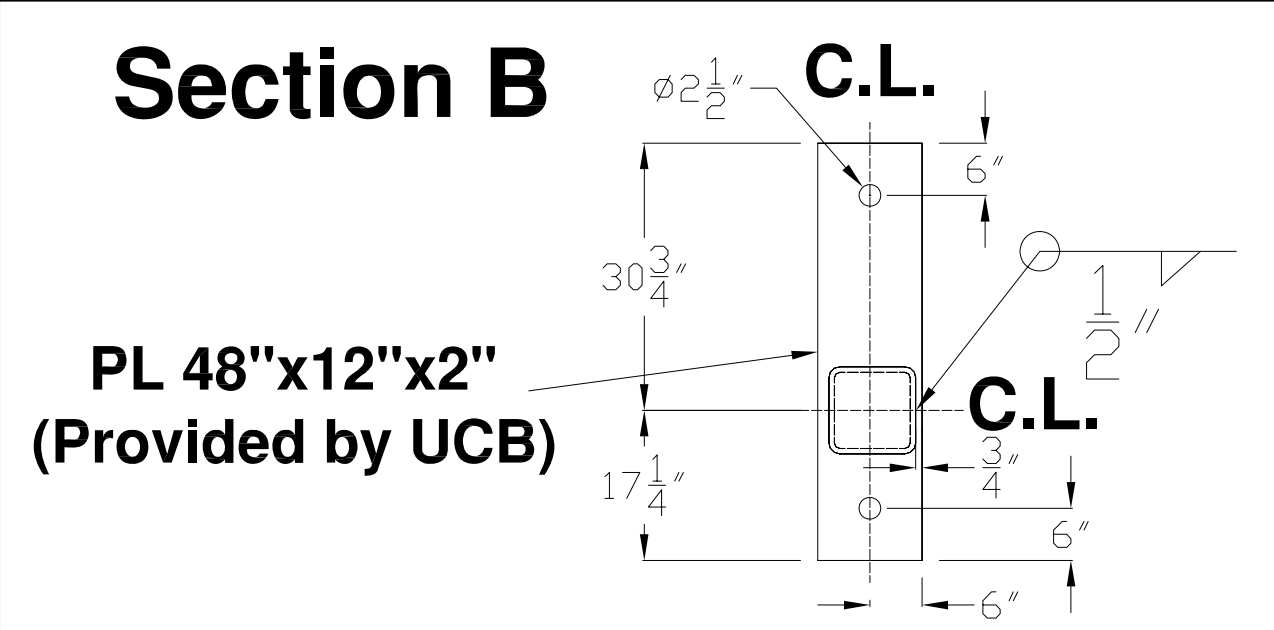
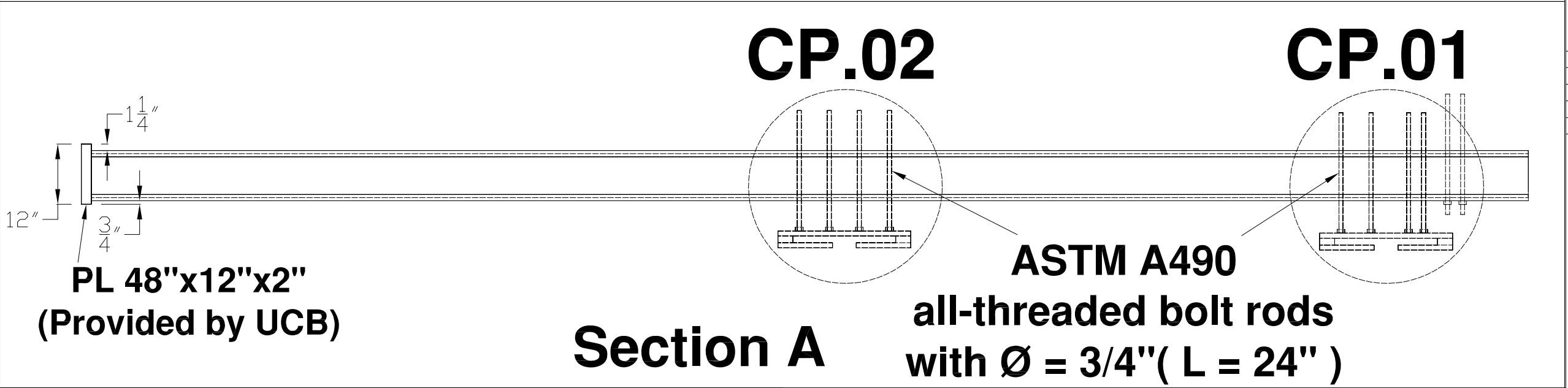
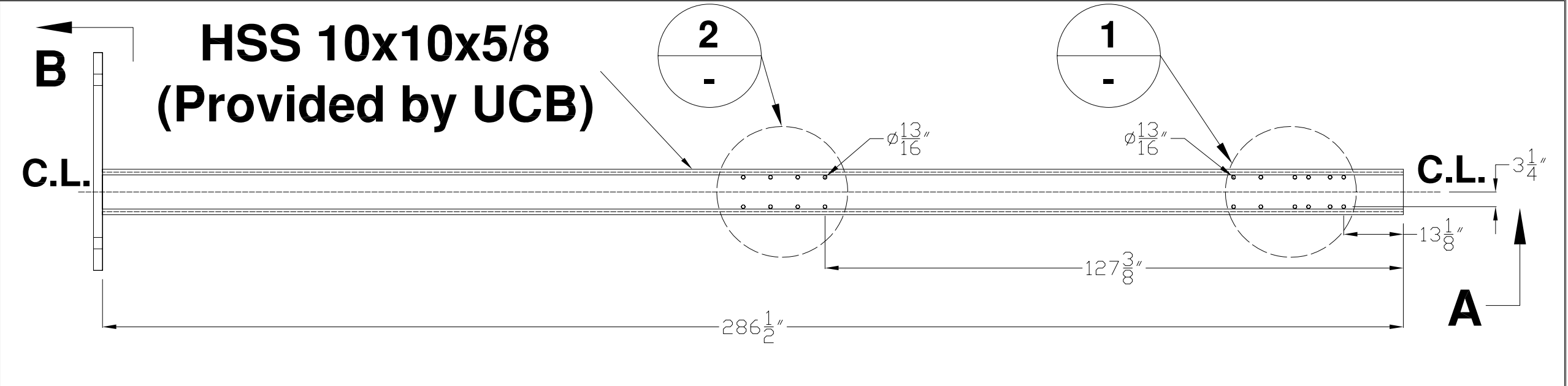
project
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content
Test Rig
Cantilever Beams

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

CB.02



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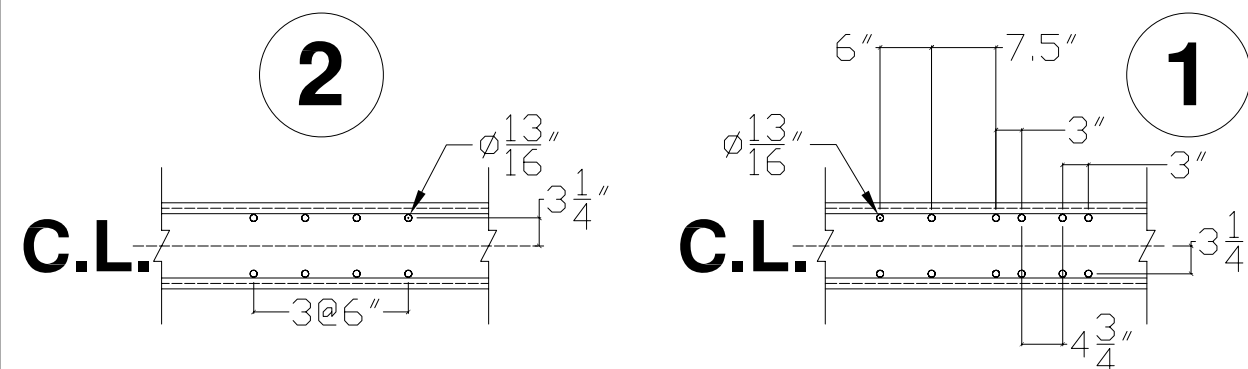
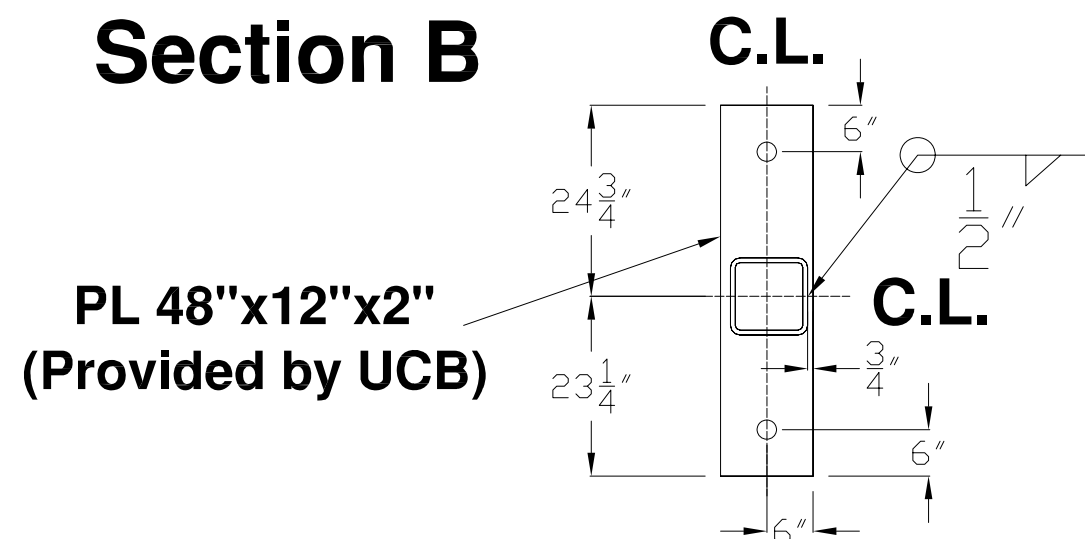
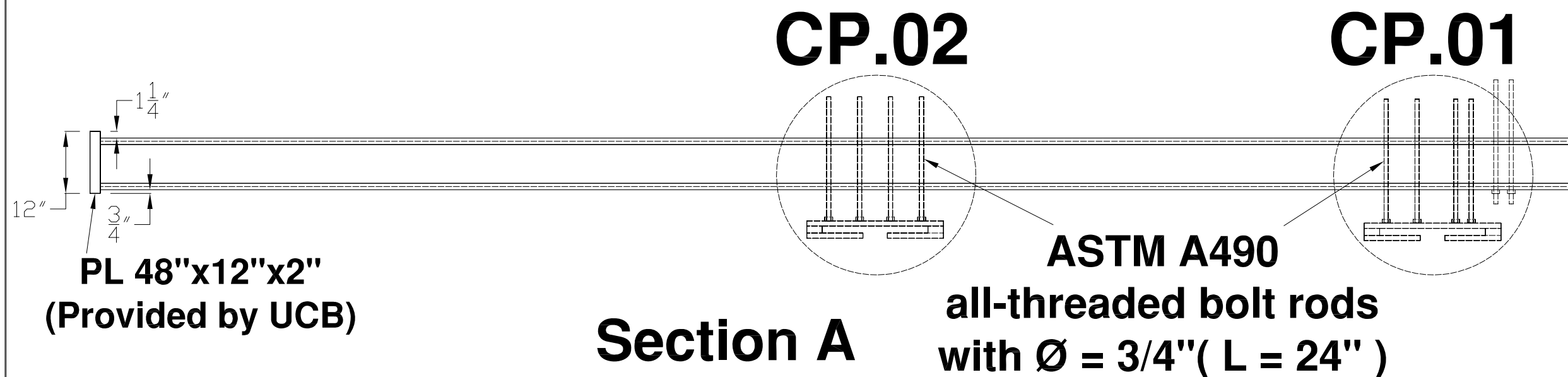
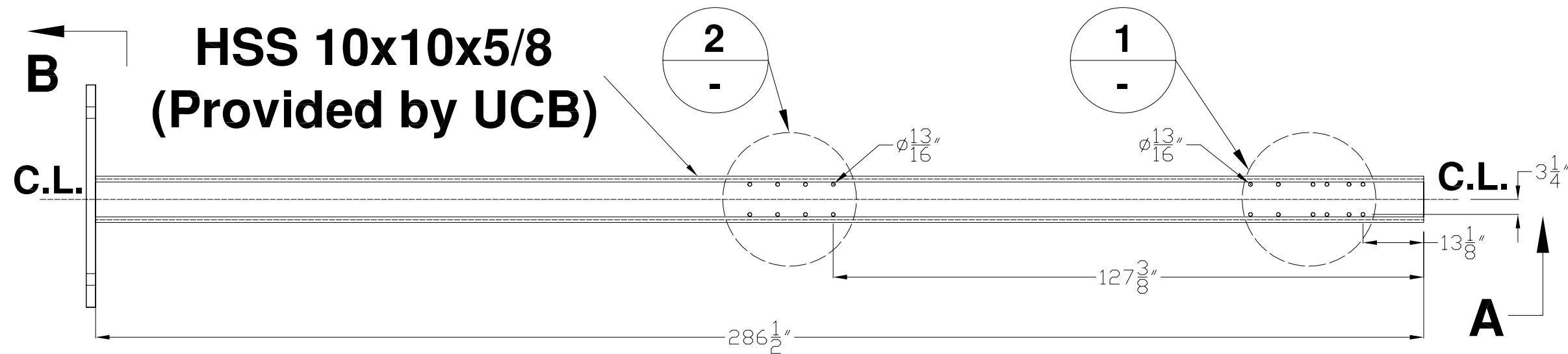
revisions

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Test Rig
HSS Columns

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checked by: Jiun-Wei Lai (Adrian)
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drawing no. HSS.01



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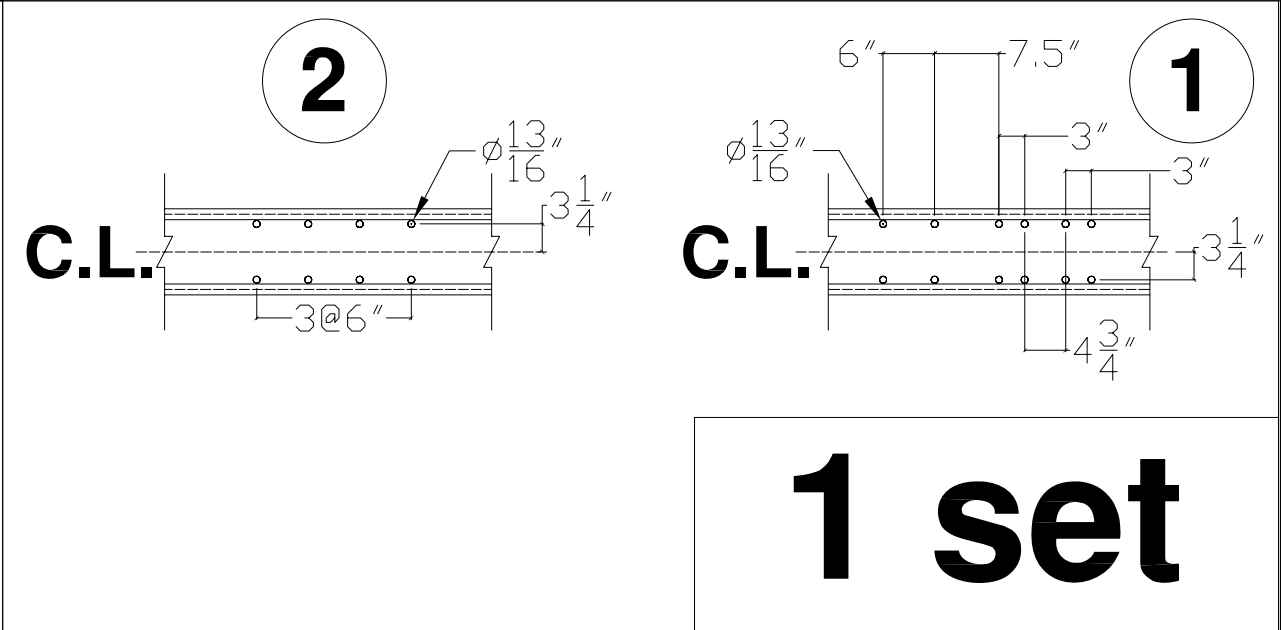
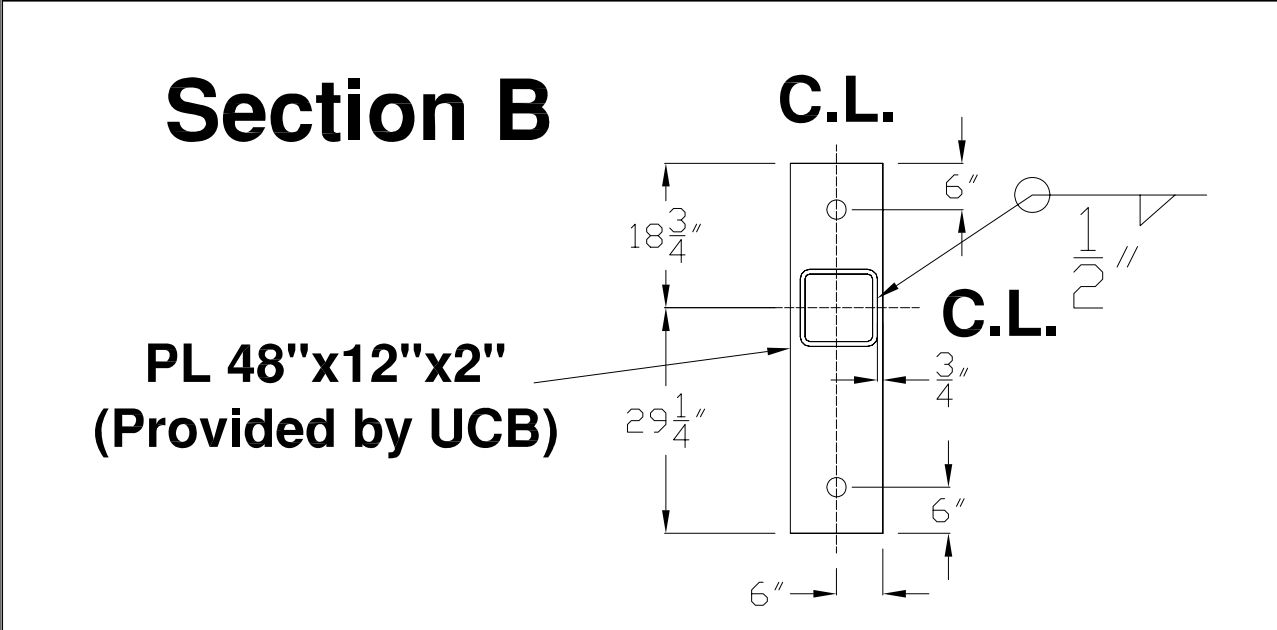
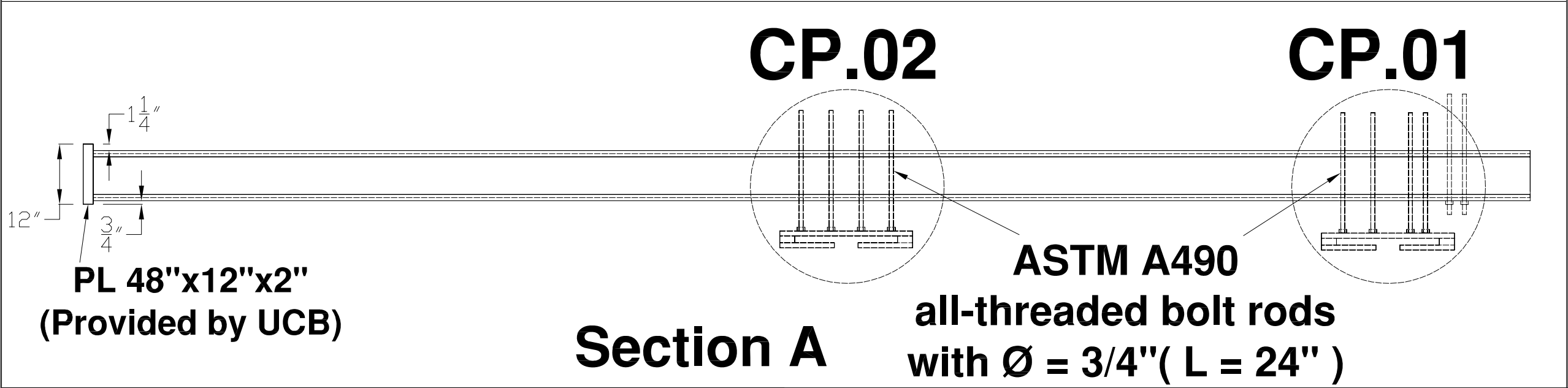
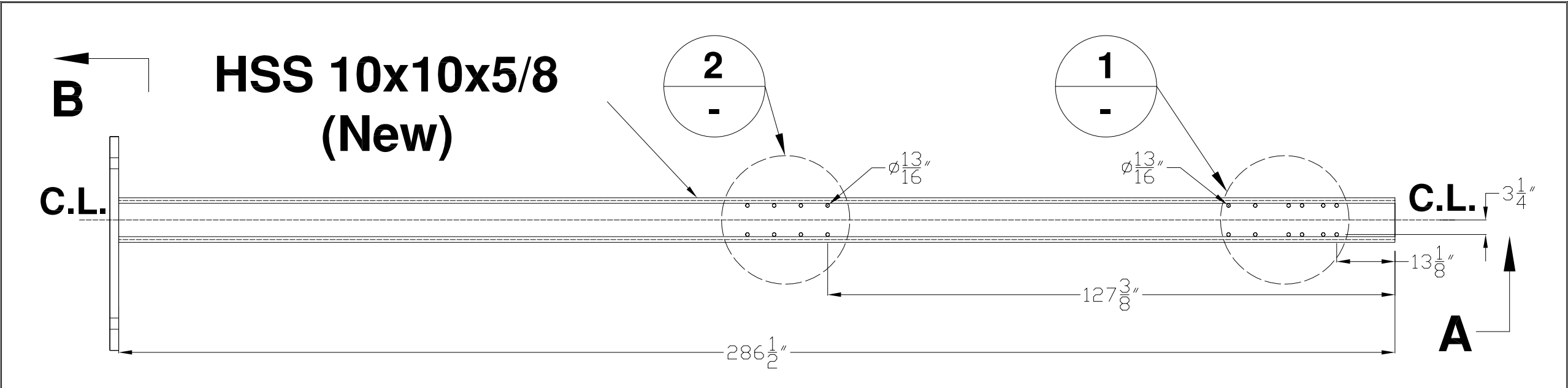
Address
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content
Test Rig
HSS Columns

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

HSS.02

Filename: SCBF-Test-Rig_Updated_Check_20081119.dwg Plotted: 11/21/2008 10:30:37 Plot Device: Adobe PDF
Page Setup: --- Plotted by: Jwlai



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Test Rig
HSS Columns

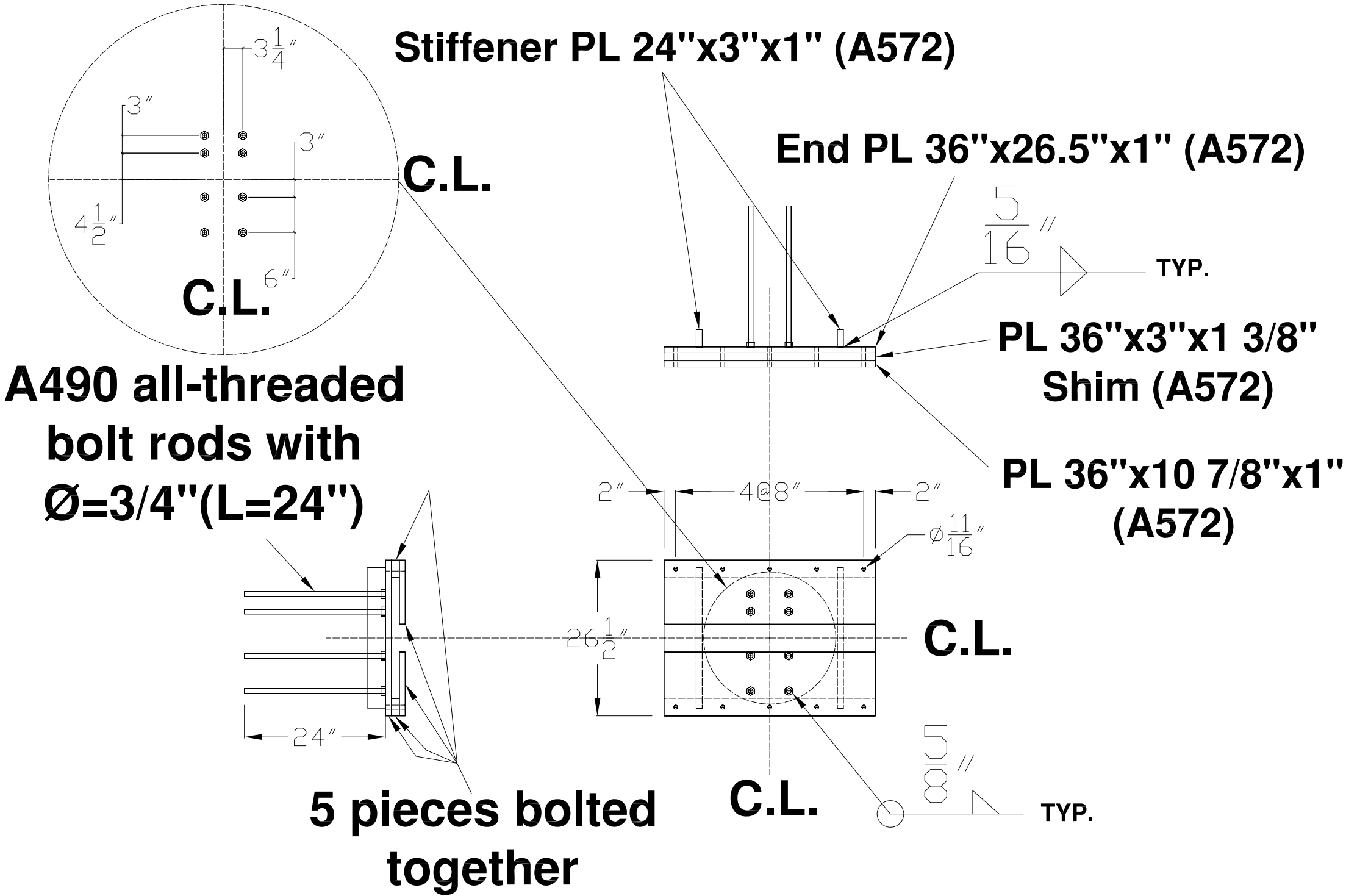
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checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no. HSS.03

Filename: SCBF-Test-Rig_Updated_Check_20081119.dwg Plotted: 11/21/2008 10:30:55 Plot Device: Adobe PDF
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3 sets

Note: Each all-threaded bolt rod need three bolt nuts and two washers. (one of bolt nuts welded to PL 36"x26.5"x1")

Bolt Group Details



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Test Rig
Clamp Plates (Upper Level)

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

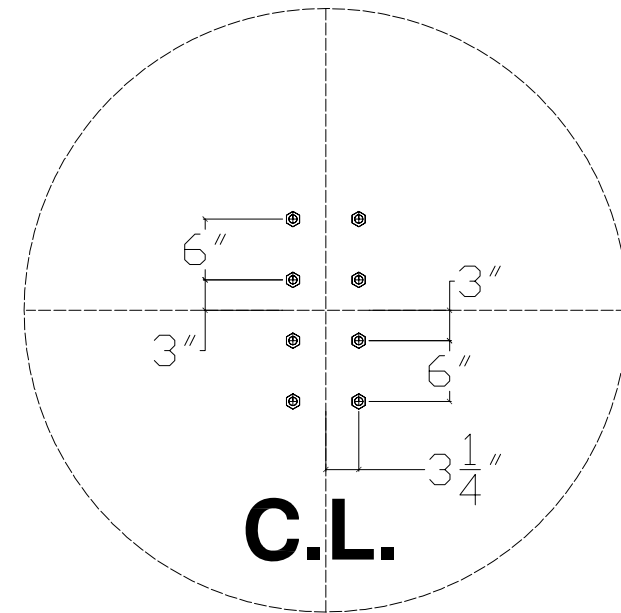
CP.01

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Page Setup: --- Plotted by: Jwlai

3 sets

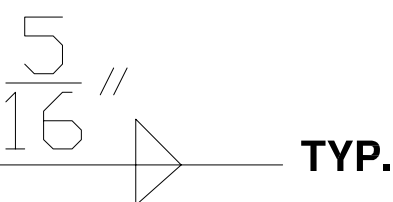
Note: Each all-threaded bolt rod need three bolt nuts and two washers. (one of bolt nuts welded to PL 36"x26.5"x1")

Bolt Group Details



Stiffener PL 24"x3"x1" (A572)

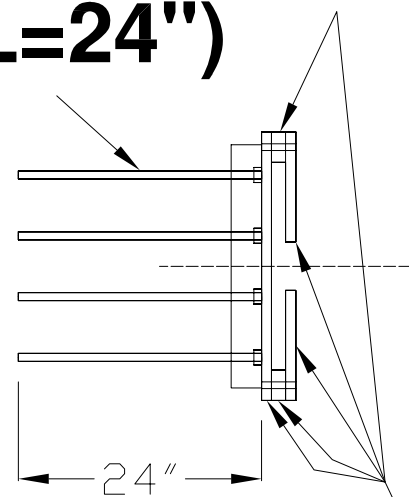
End PL 36"x26.5"x1" (A572)



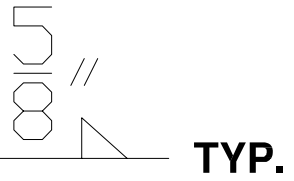
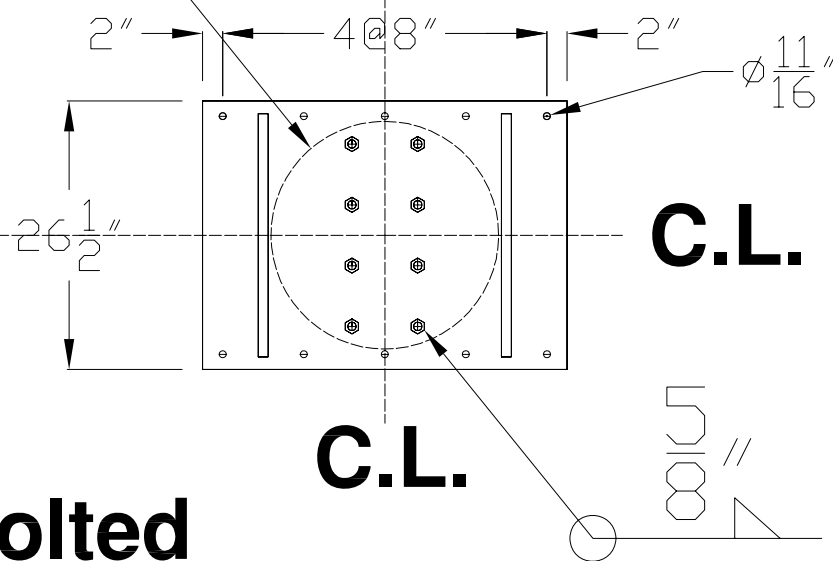
PL 36"x3"x1 3/8" Shim (A572)

PL 36"x10 7/8"x1" (A572)

A490 all-threaded bolt rods with Ø=3/4"(L=24")



5 pieces bolted together



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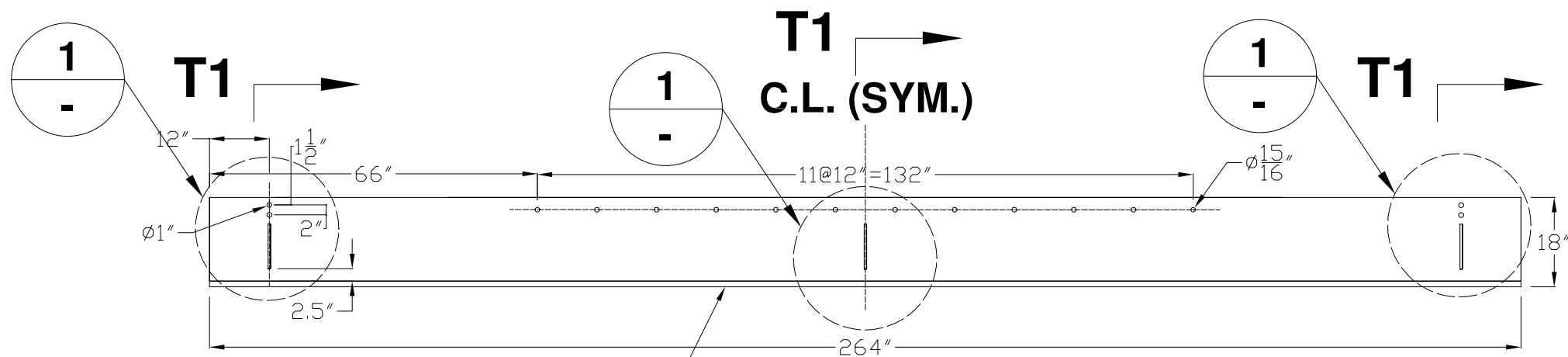
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Test Rig
Clamp Plates (Lower Level)

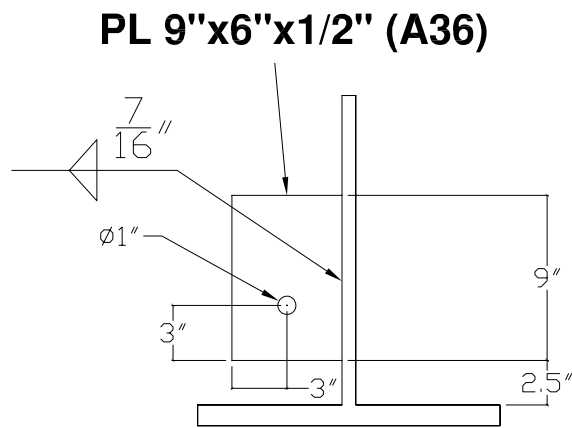
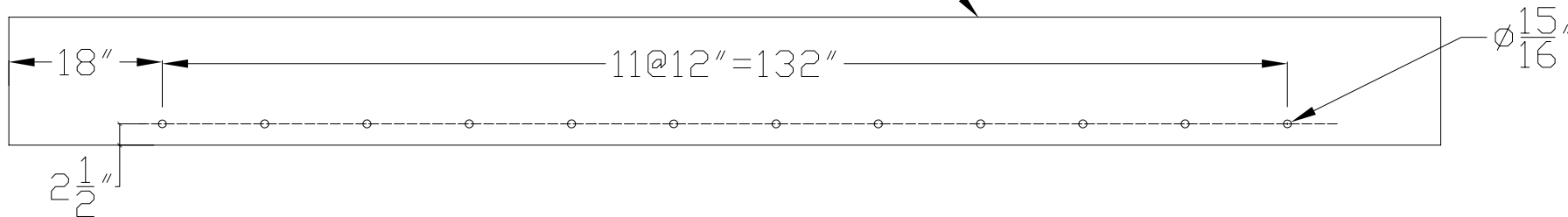
drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

CP.02



Cut from the existing W36x230 provided by UCB

**PL 168"x15"x3/4" (A36), field fillet weld (1/8")
to top flange of specimen beam sections**



Section T1

1

2 sets

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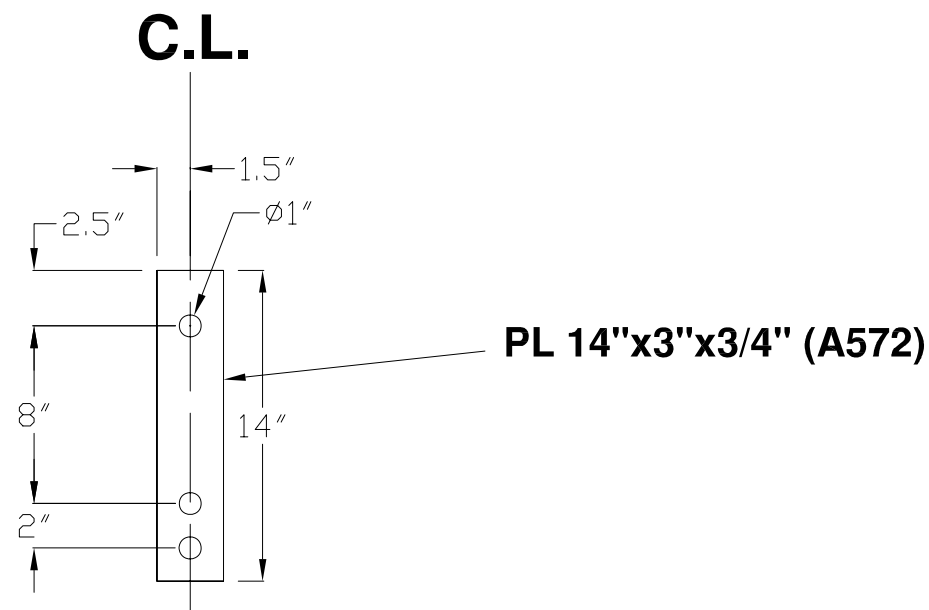
revisions

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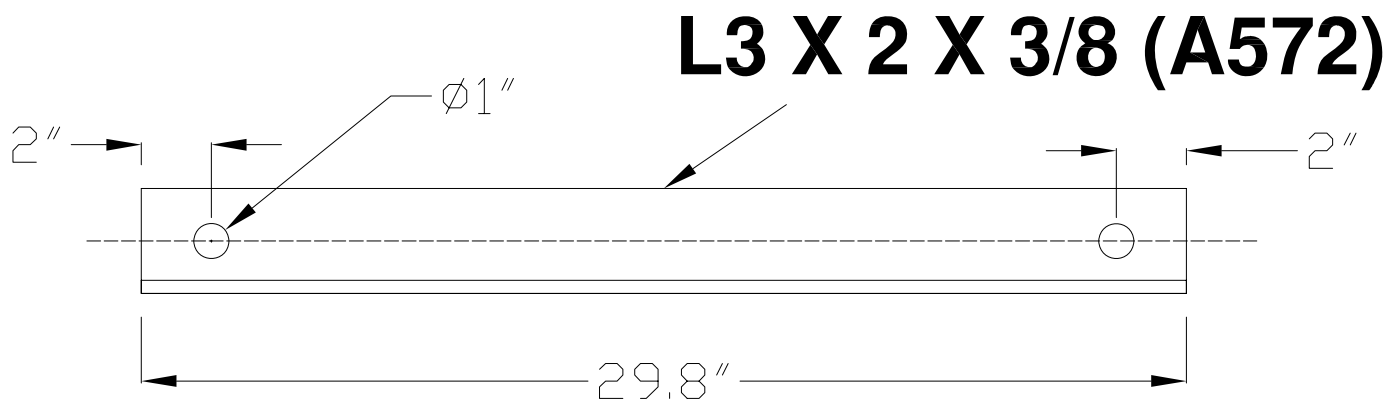
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content
Test Rig
Lateral Tee Sections

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no. TEE.01



4 sets



6 sets

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Test Rig
Lateral Tee Sections

drawn by: Jiun-Wei Lai (Adrian)
checked by: Jiun-Wei Lai (Adrian)
date: Aug. 2008
drawing no.

TEE.02