



CALCULATIONS

NAVAIRSEFAC Calibration Lab
BRAC – UPGRADE F-15 CRF
Naval Air Station Joint Reserve Base New Orleans

For
Broadmoor, L.L.C.

June 22, 2010

US DEPARTMENT OF THE NAVY – NAVFAC SOUTHEAST

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**NAVAIRSEFAC
NAS JRB NEW ORLEANS
BRAC-UPGRADE F-15 CIRF
FOR BROADMOOR, LLC**

SCOPE OF WORK:

Determine minimum sizes for interior metal stud walls subject to 5 psf internal pressure load. Provide details for all related anchoring, bracing, and fastening systems.

STANDARDS USED:

Cold Formed Metal Framing Specification Section 05 40 00
AISI S100-2007
AISI Manual Cold-Formed Steel Design 2007
ASCE 7-98
IBC 2006

RESULTS SUMMARY:

Interior walls studs-

Unbraced height

0'-0" - 17'-6"

Use 6" web, 1.25" flange, 18ga. @ 16" o.c. Telling Industries (600S125-43 33ksi)

Track -

Interior walls

Use 6" web, 20ga. Telling Industries (600T125-30 33ksi)

Anchors -

Interior walls

Use Redhead drive-pin expansion anchors 1/4"x1-1/2" @ 24" o.c.

Horizontal Bracing -

Interior walls

Use continuous 1-1/2" 16ga. CRC 150U050-54 @ 6'-0" o.c. Vertical.

CALCULATIONS:

See the following calculations and submittal sheets.