

Albert Putnam PE
183 Park Row
Brunswick, Maine 04011
(207)729-6230

January 22, 2013

Rachel Conly
26 Sterling Street
Peaks Island, Maine 04108

RE: Steed/Frexes Residence
Peaks Island, Maine

Dear Rachel,

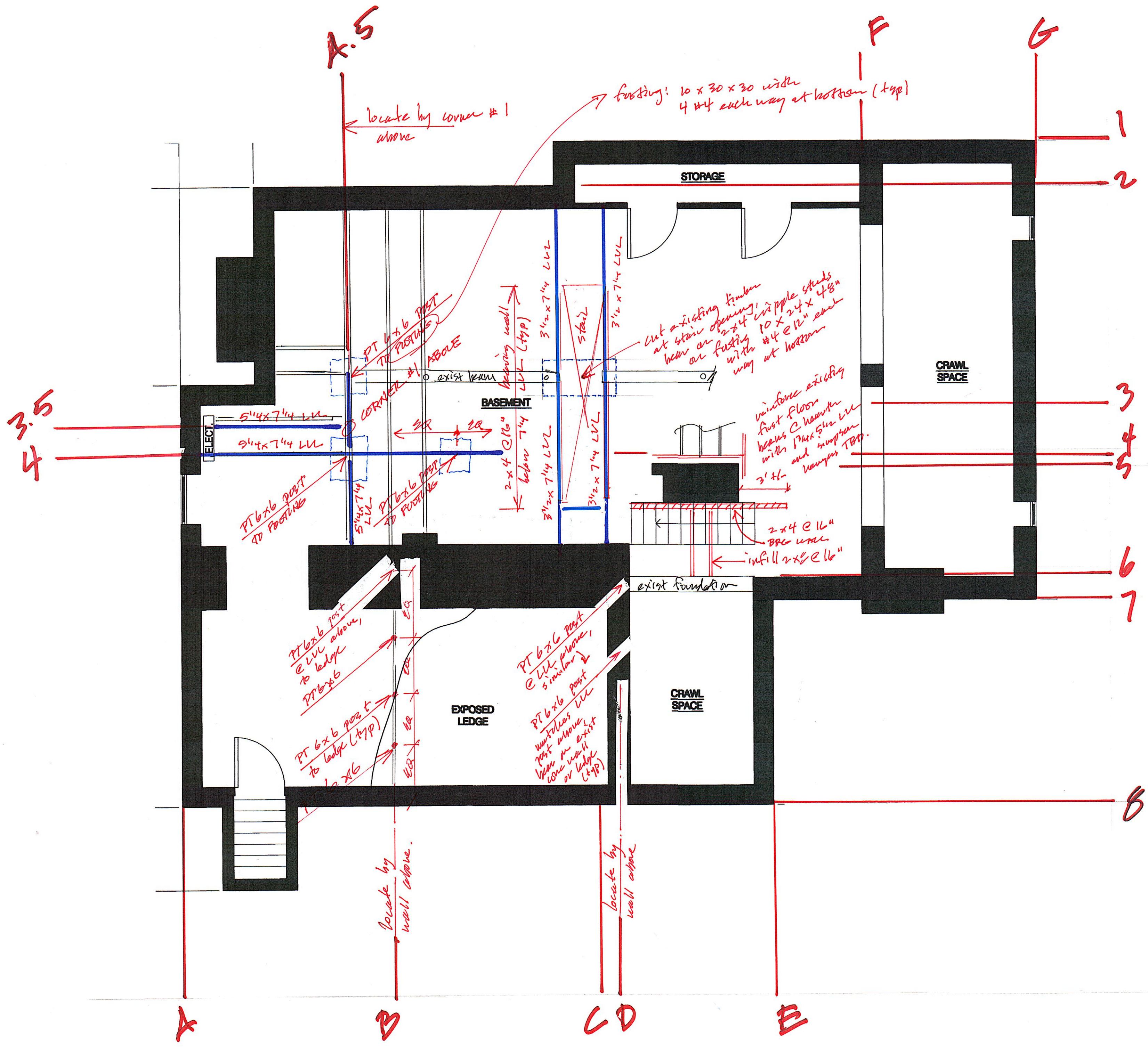
Please find attached my redline structural comments addressing the conditions exposed to view during the demolition phase of the kitchen renovation / first floor stabilization at the Steed/Frexes Residence on Peaks Island. I am glad to visit the site again during construction if you or the contractor wish.

Please do not hesitate to call with questions.

Thank you,



Albert Putnam PE
Maine PE #10273



FIRST FLOOR
FRAMING
& FOUNDATION

1/4"

Rachel Conly

Architectural Design

207.766.5625

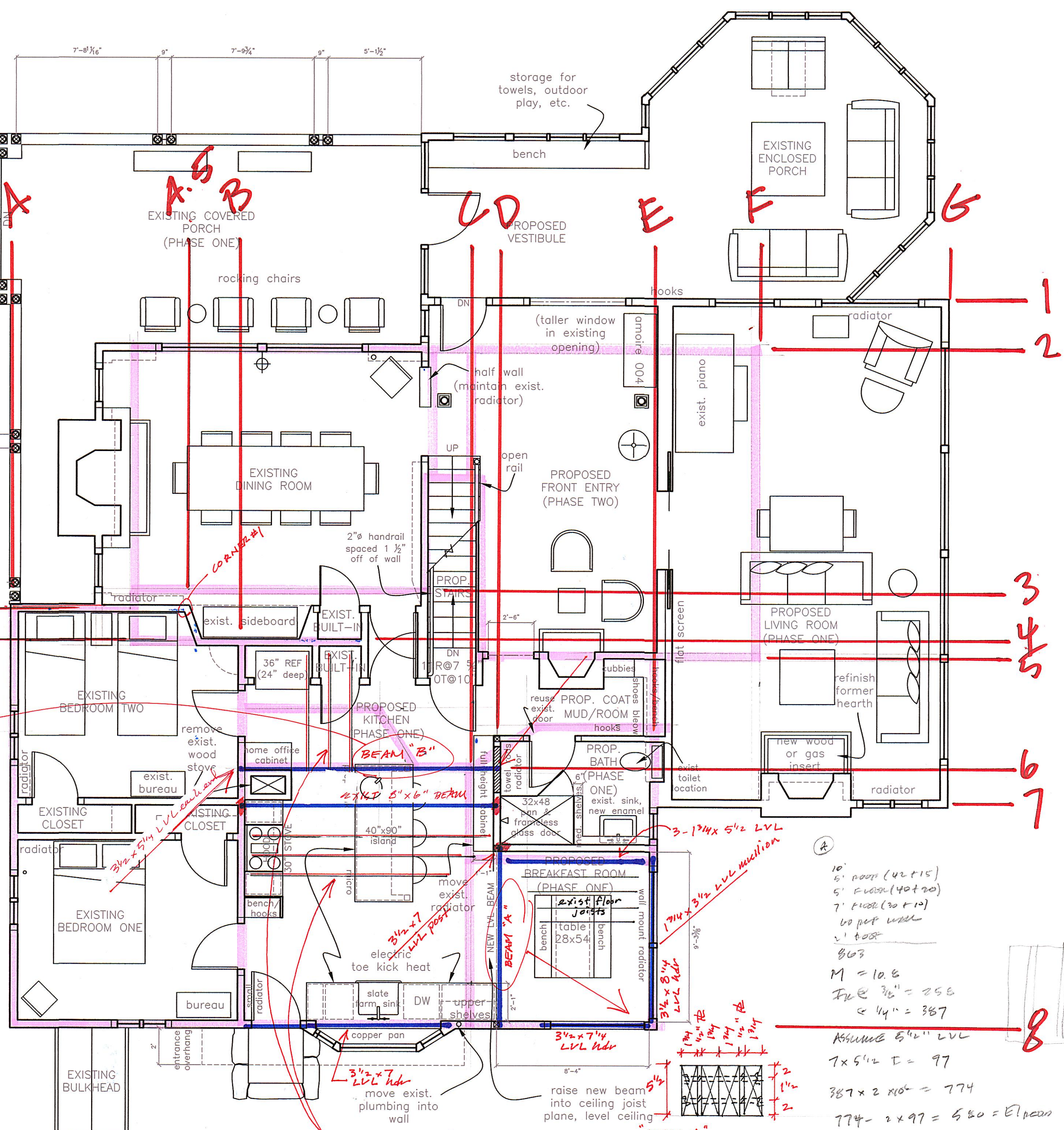
Proposed First Floor Plan: Revision

PROJECT
Freres Steed Residence
3 Torrington Point
Peaks Island, Maine
04108

DATE 1.3.12 REVISIONS 3.27.12
1.9.12 5.31.12
SCALE 1/4"=1'-0" DRAWN BY Rachel

NOTES
SECOND FLOOR FRAMING

10' floor (42+15)
5' floor (40+20)
7' floor (30+10)
60 post walls
2' post
803
M = 10.6
I_{eq} @ 3/8" = 256
I_{eq} @ 1/2" = 387
ASSUME 5 1/2" LVL
7 x 5 1/2" I = 97
387 x 2 x 10 = 774
774 = 2 x 97 = 580 = EI_{beam}
E = 29 x 10⁴
I = 20
2 PL h = 5 1/2"
10 = bh³/12 → b = 0.72"
2-PL 1/2" x 5 1/2" 4-1 3/4" x 5 1/2" LVL
STRENGTH OK. ✓ Δ = 0.33"



ind. cavity wall above

ML6 x 15.3

1 3/4 x 5 1/2 LVL

BEAM B

ML6 x 15.3
1-1 3/4 x 5 1/2 LVL
1/2" bolts staggered at
16" or 3 1/2 x 5 1/2 LVL
post each end

3.5' (30 x 0.76 + 10) =
9.5' (38 x 0.76 + 10) =
40 post walls =
520 plf

13.75'
12.3 kft
I_{eq} @ 3/8" = 304 @ 2.0E
I_{eq} @ 1/2" = 3075 psi

SS HEAVY-PIN F_h = 1200
C_d = 0.80 (WID & PACE)
1200 x 1.15 x 0.80 = 1286 psi
I_{eq} = 3075 / 1286 = 2.40

ADD 3 1/2 x 6 LVL EACH SIDE
I = 270

NO MODIFICATIONS,
STRENGTHENING EXISTING
NON-CORRELATING
BEAMS.



Proposed First Floor Plan: 6.5.12

1/4" = 1'-0"

stick existing floor joists
with 1 3/4 x 5 1/2 LVL.
shim tight and install
Simpson U44R hangers
at beam B

"BEAM A"
4-1 3/4 x 5 1/2 LVL
2-1 1/2" x 5 1/2" STEEL PL
1/2" bolts staggered at
16" or 4 within 12"
of each end.