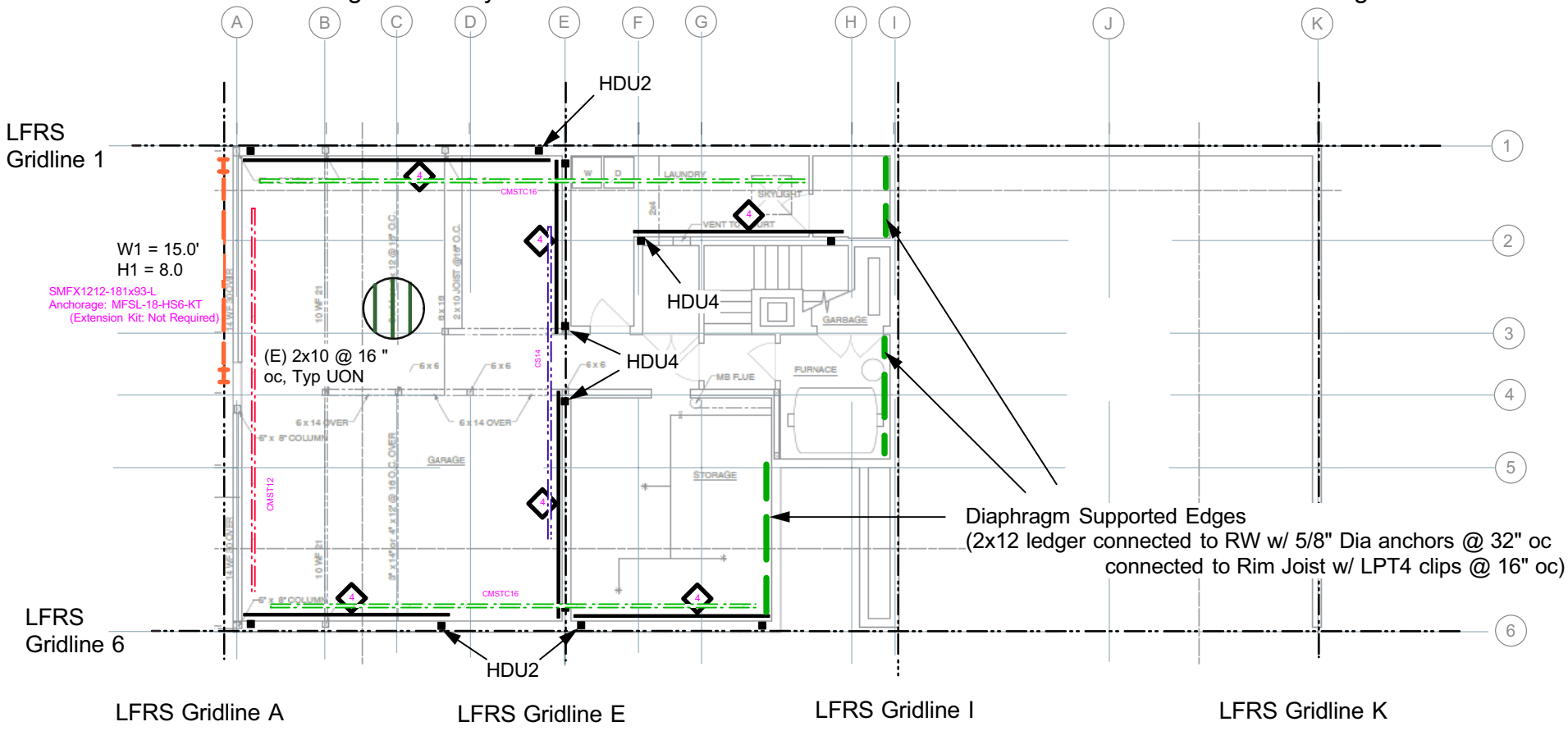
2016 Sample Retrofit Project - San Francisco, CA

Performed Seismic Retrofit (ground floor levels) of 5 Story multi-family residential wood framed building in San Francisco built in 1956, using wood framed shear walls and Simpson Special Moment Resisting Frames.



LEVEL 0 - RETROFIT PLAN

NTS

Lateral Force Resisting System (LFRS) Elements :

- (N) Shear Wall
- Simpson Strong Frame
- Diaphragm Supported Edges at Retaining Wall

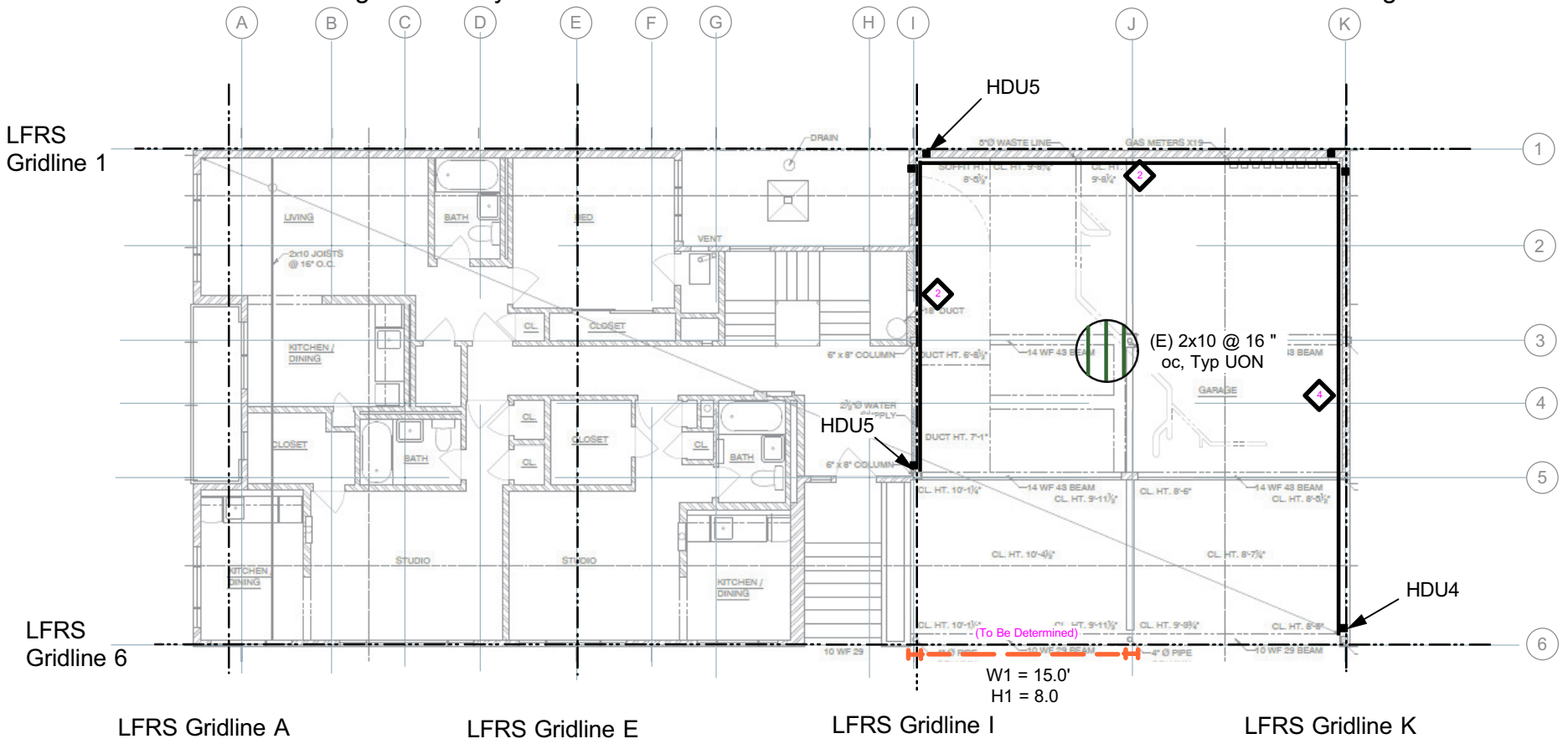
Ground Floor Retrofit Plan (from calcs)

RETROFIT LEGEND:

- 4 — 1/2" Struct I Sheathing w/ 10d Edge Nailing
- ■ — Holdown each side, as indicated

STRAP LEGEND: Note: Straps in W-E direction can be replaced with 6 - 3/4" carriage bolts at Floor joist splices at lines of support.

- CS14 Strap w/ 10d (2,490 #)
- CMSTC16 Strap w/ 16d (4,585 #)
- CMST12 Strap w/ 16d (9,215 #)



LEVEL 1 - RETROFIT PLAN
NTS

Lateral Force Resisting System (LFRS) Elements :

(N) Shear Wall

Simpson Strong Frame

First Floor Retrofit Plan (from calcs)

RETROFIT LEGEND:

4 1/2" Struct I Sheathing w/ 8d Edge Nailing

Holdown each side, as indicated

STRAP LEGEND: Note: Straps in W-E direction can be replaced with 6 - 3/4" carriage bolts at Floor joist splices at lines of support.

CS14 Strap w/ 10d (2,490 #)

CMSTC16 Strap w/ 16d (4,585 #)

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