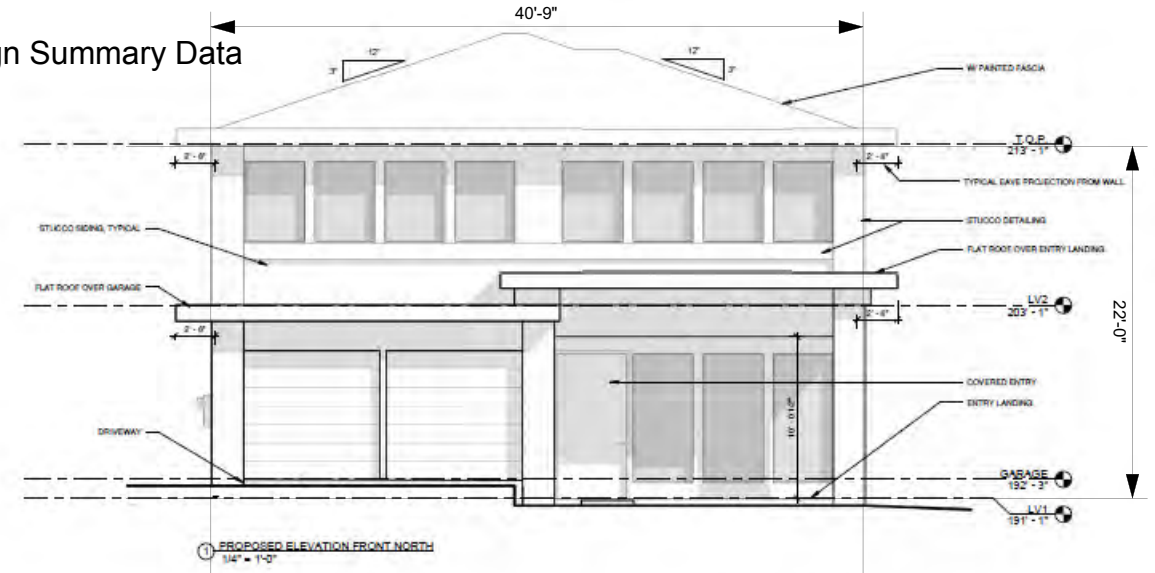
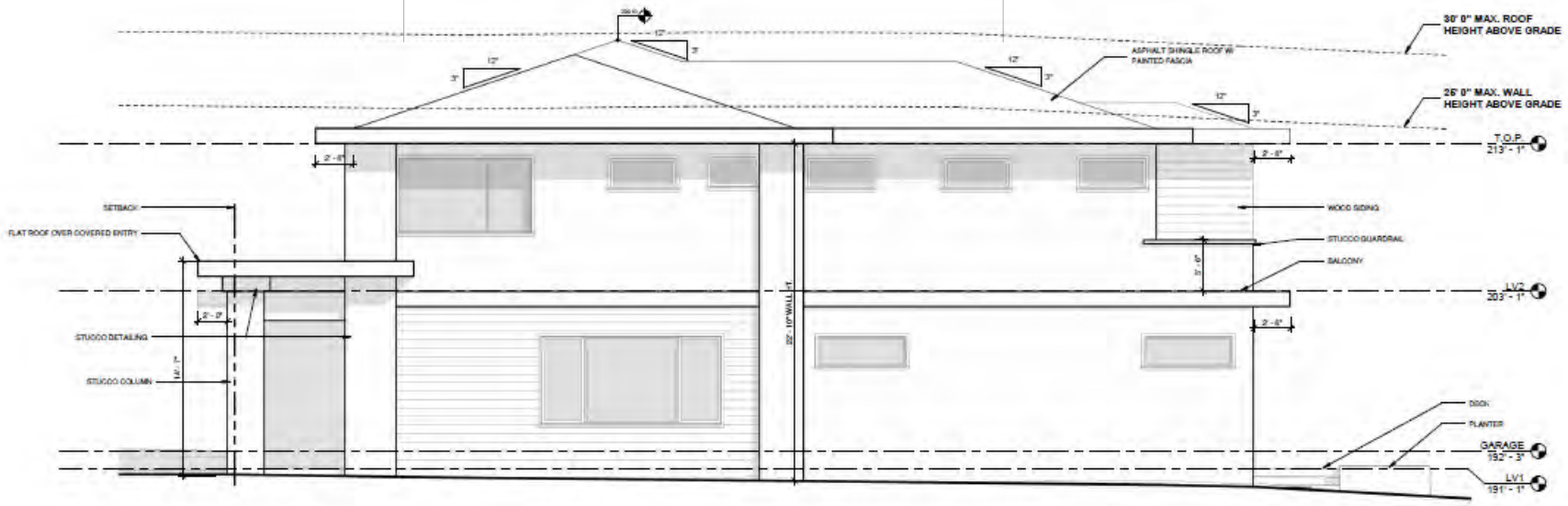


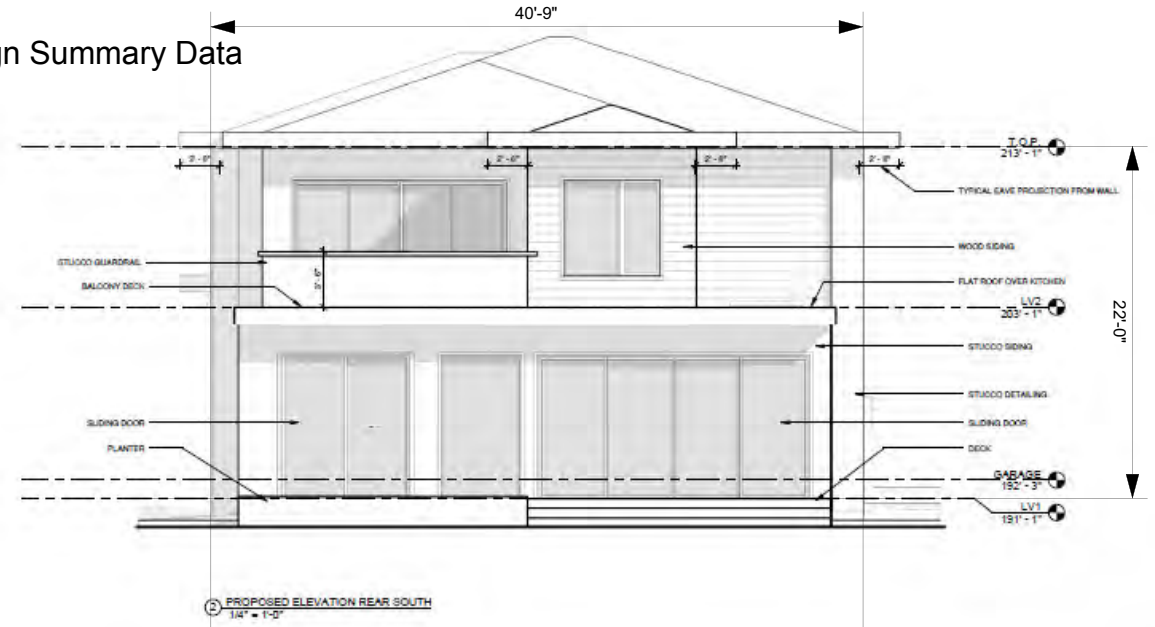
1 PROPOSED ELEVATION FRONT NORTH
1/4" = 1'-0"



2 PROPOSED ELEVATION RIGHT SOUTH
1/4" = 1'-0"

SECTIONS I - SHEET S5.0

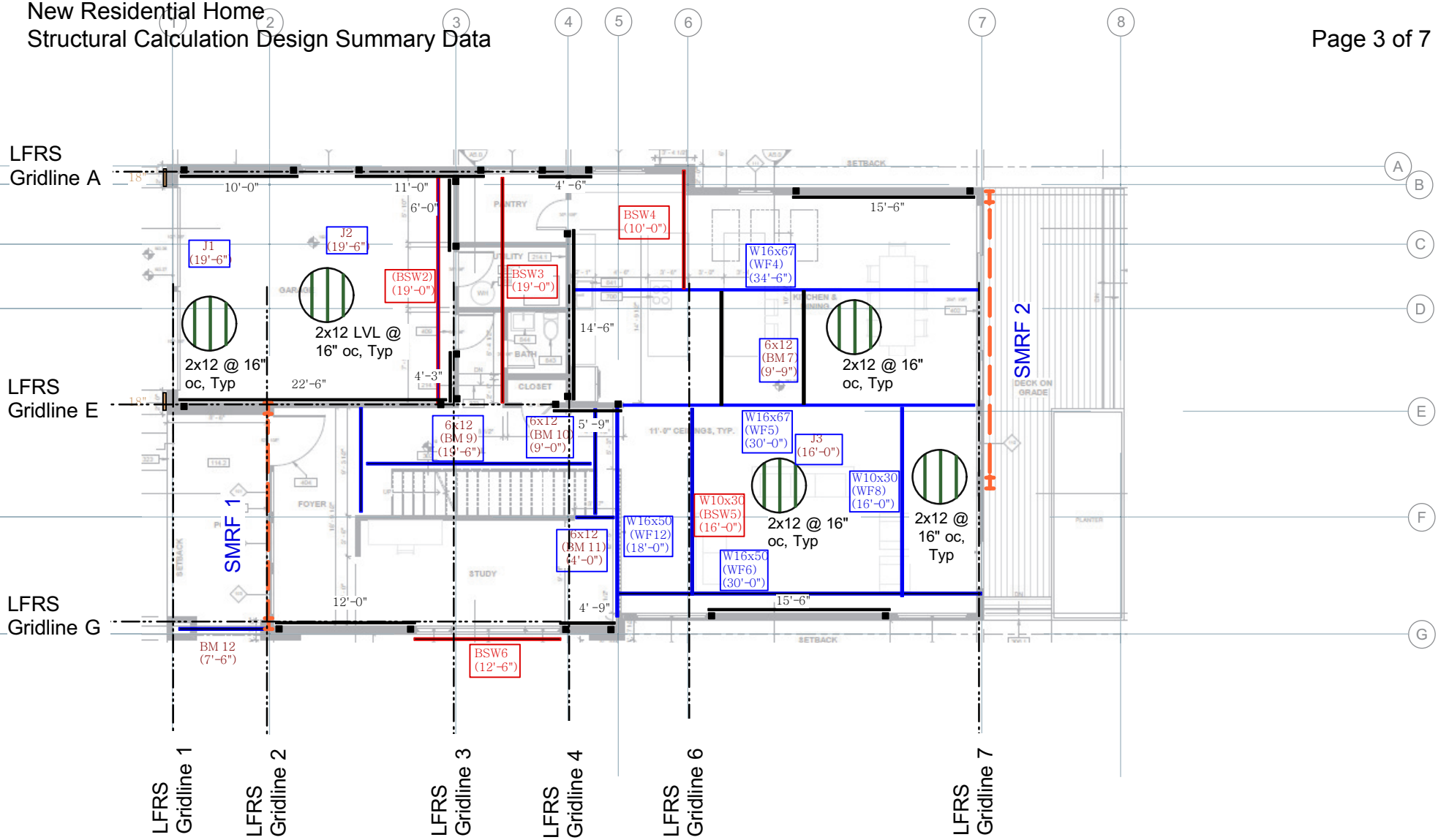
NTS



SECTIONS II - SHEET S5.1

NTS

GRAPHIC SCALE 1/4" = 1'



Lateral Force Resisting System (LFRS) Elements :

- Wood Frame Shear Wall
- Simpson Strong Wall - Wood
- Simpson SMRF

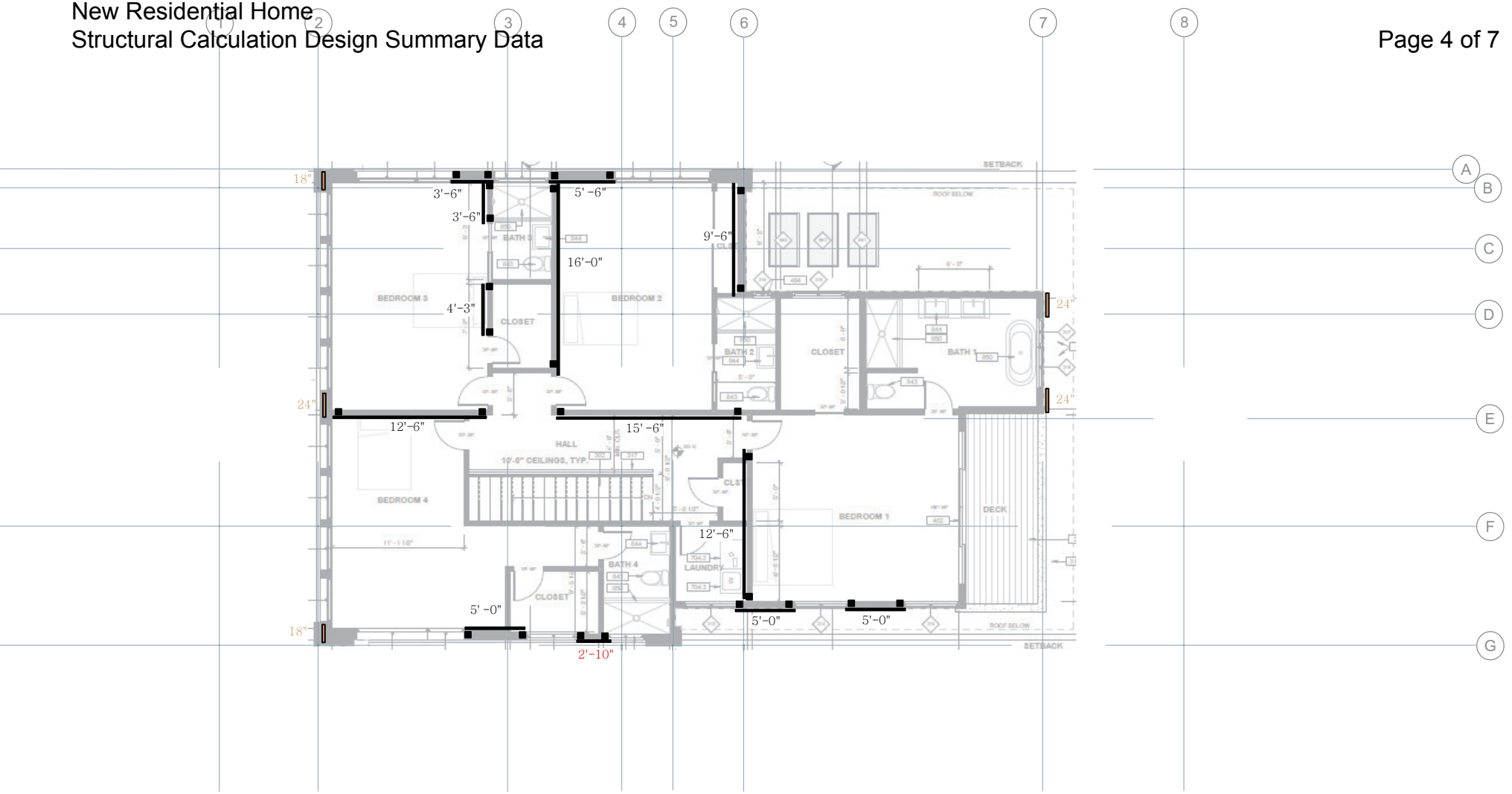
- VFRS LAYOUT V3.5

LEVEL 1 FLOOR PLAN - LFRS LAYOUT V3.2 - SHEET S2.0

NTS

Vertical Force Resisting System (VFRS) Elements :

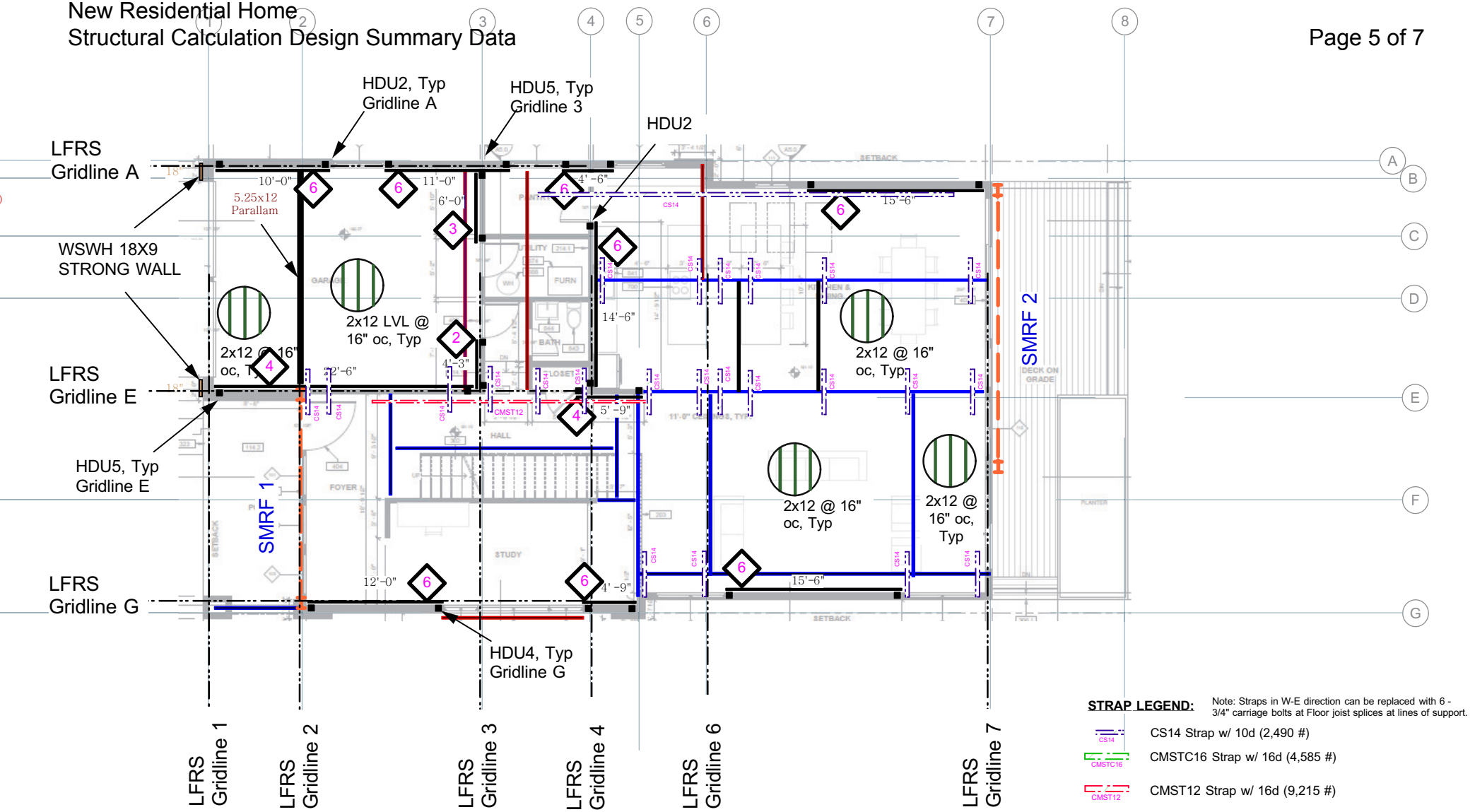
- WF Beam
- Timber Beam or Header (J, BM)
- Beam supporting Shear Walls (BSW)



Lateral Force Resisting System (LFRS) Elements :

- Wood Frame Shear Wall
- Simpson Strong Wall - Wood
- Simpson Strong Wall - Steel

LEVEL 2 FLOOR PLAN - LFRS LAYOUT V3.2 - SHEET S2.0
NTS



Lateral Force Resisting System (LFRS) Elements :

- Wood Frame Shear Wall
- Simpson Strong Wall - Wood
- Simpson SMRF

LEVEL 1 FLOOR PLAN - LFRS ELEMENTS
NTS

Vertical Force Resisting System (VFRS) Elements :

- WF Beam
- Timber Beam or Header (J, BM)
- Beam supporting Shear Walls (BSW)

LFRS ELEMENT LEGEND:

- 3 — 1/2" Struct I Sheathing w/ 10d Edge Nailing
- Holdown each side, as indicated

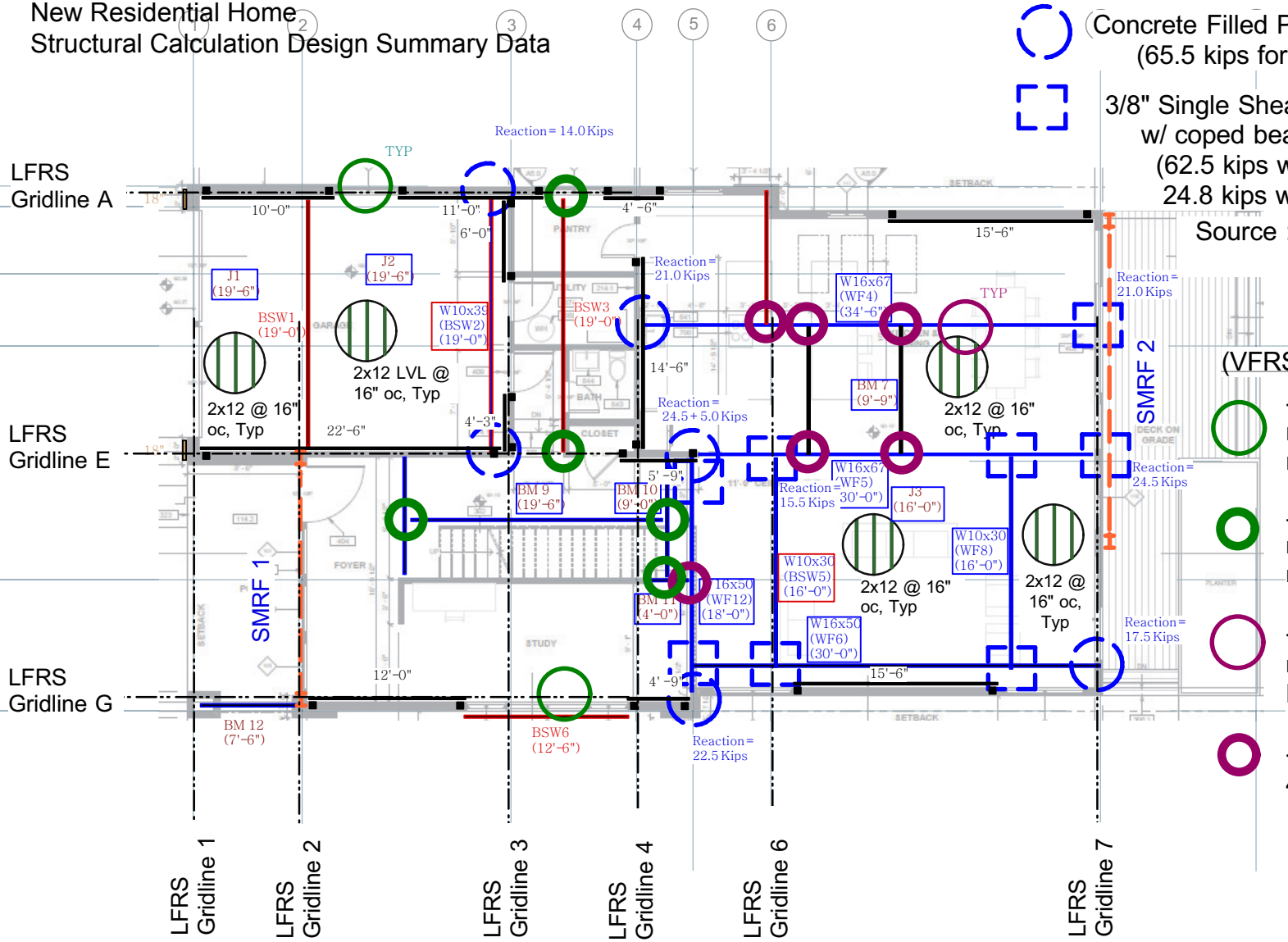
NBSD Sample Building Design Project
New Residential Home
Structural Calculation Design Summary Data

(VFRS) Supports - Steel:

Concrete Filled Pipe 4
(65.5 kips for KL = 12.0 feet)

3/8" Single Shear Plate (Main Member)
w/ coped beam (Supported Member)
(62.5 kips w/ 4- 3/4" bolts at W16,
24.8 kips w/ 2- 3/4" bolts at W10)

Source : AISC 360-10 Tables 4-19
and Table 10-10a



(VFRS) Supports - Timber:

- Use LUS Hangers for 2x members framing into Wood members
- Use HU Hangers for 6x members framing into Wood members
- Use JB Hangers for 2x members on 4x nailer at WF Beams
- Use HGLT for 6x beams on 4x nailer at WF beams

Lateral Force Resisting System (LFRS) Elements :

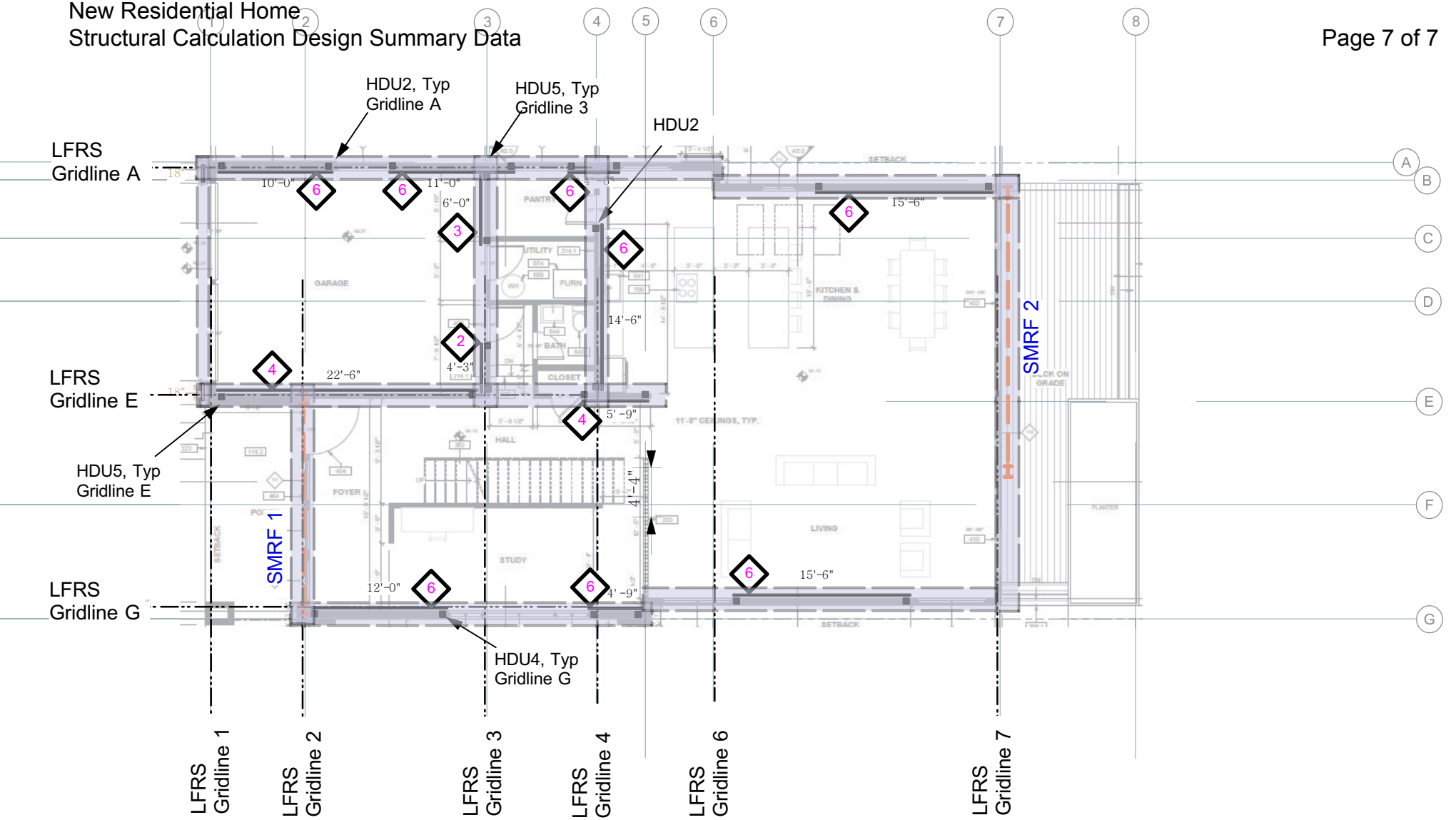
- Wood Frame Shear Wall
- Simpson Strong Wall - Wood
- Simpson SMRF

- VFRS LAYOUT V3.5

LEVEL 1 FLOOR PLAN - LFRS LAYOUT V3.2 - SHEET S2.0
NTS

Vertical Force Resisting System (VFRS) Elements :

- WF Beam
- Timber Beam or Header (J, BM)
- Beam supporting Shear Walls (BSW)



Lateral Force Resisting System (LFRS) Elements :

- Wood Frame Shear Wall
- Simpson Strong Wall - Wood
- Simpson SMRF

LEVEL 1 FLOOR PLAN - LFRS ELEMENTS
NTS

FOUNDATION ELEMENTS:

- (N) Footings

LFRS ELEMENT LEGEND:

- 3 — 1/2" Struct I Sheathing w/ 10d Edge Nailing
- ■ — Holdown each side, as indicated