Structural Integrity
Consulting Engineers, Inc.

September 22, 2014

Carol Morrissette,
Residential Design Studio
174 Danforth St.
Portland, ME
04102

Reference:
Deck Joist Framing at Residential Dwelling
Portland, Maine

Dear Carol,

The opinions and comments contained in this memo are based on the attached sketch provided to us via an email. No physical testing or site observation was performed. No warranty expressed or implied, as to the condition of the structure, is intended.

The IBC 2009 requires residential decks to carry the loading of the occupancy served. In this case, 40psf live load and 10psf dead load was assumed.

Based on the our calculations and the information provided (see attached sketch), the deck should be framed with 2x4 @ 8" o.c.. Installing additional 2x4 deck joists between the as-built framing will achieve this.

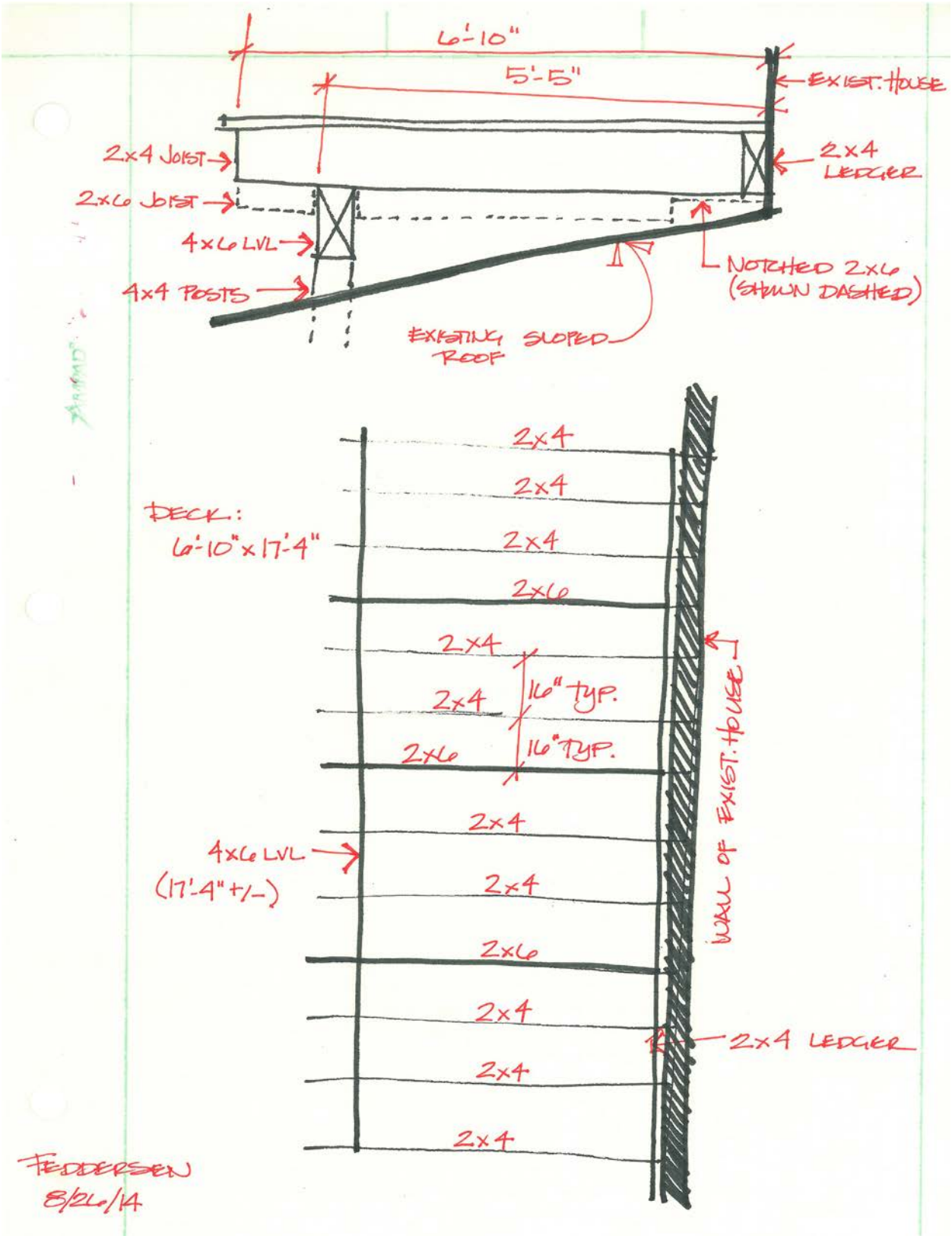
Please do not hesitate to contact us with any questions or if you would like additional evaluation.

Sincerely,

Aaron C. Jones, P.E., SECB, LEED AP BD+C
President

STATE OF MAINE
AARON C. JONES
No. 10968
LICENSED
PROFESSIONAL ENGINEER

9/22/14


6'-10"
5'-5"
EXIST. HOUSE
2x4 JOIST
2x4 LEDGER
2x6 JOIST
4x6 LVL
4x4 POSTS
NOTCHED 2x6 (SHOWN DASHED)
EXISTING SLOPED ROOF
DECK:
6'-10" x 17'-4"
2x4
2x4
2x4
2x6
2x4
2x4
16" TYP.
2x6
16" TYP.
2x4
4x6 LVL
(17'-4" +/-)
2x4
2x6
2x4
2x4 LEDGER
2x4
2x4
WALL OF EXIST. HOUSE
FEDDERSEN
8/26/14