

NEW

HOLMAN SLS FORMS & SYSTEMS (2017) 783-0430

BACK

PROFILE

6'X16' DECK

346 Woodford Street  
Portland ME.

EXISTING  
HOUSE

Railings 42" Height to top of 2x4 Railings

2" x 4" - Cross Rails P.T.

2" x 2" P.T. Spindles 5' oc - Attached w/ 3" GRK screws

4" x 4" Railing P.T. 6" oc POST \* Connected to Joist Ban with 1/2" through Bolt & washers thru

P.T. 2" x 8" 16" oc Joists + Band

2" x 10" (3) Girder P.T.

6" x 6" Post P.T.

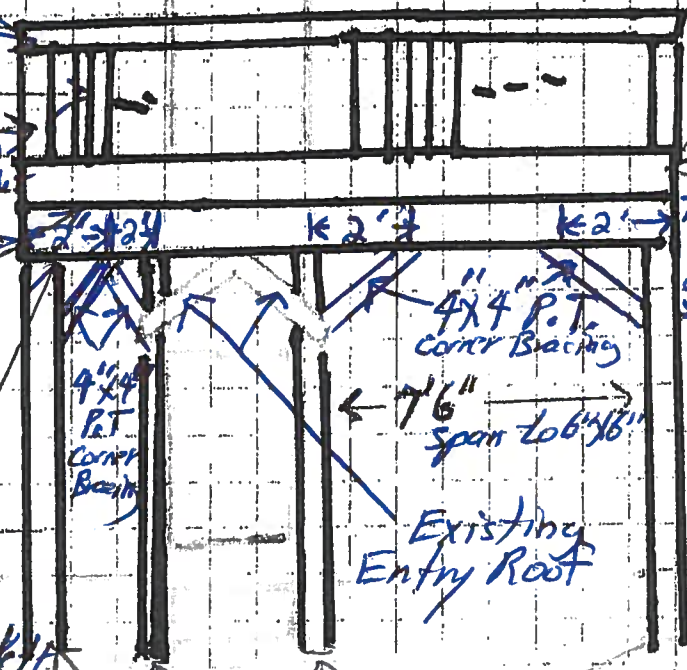
1st Floor Entry  
New Railings  
Existing Stairs -  
2" x 4" P.T. - Top Rail  
2" x 2" P.T. Balusters  
4" x 4" P.T. Post -

Post & Rail Details

6" x 6" P.T. Post Connected by Simpson Top Bracket to 3" x 10" Girder

5" oc.  
6" oc. Maximum

\* Joist Details  
Simpson Hurricane clips  
Every Floor Joist to Girder. Joist are top loaded into Girder (3-2x10s) P.T.



\* Lateral load connections per IRC 302.2.2.3 see Figure A2 Attached  
\* Ledger Fastening per IRC 302.2.2.1 see Figure A2 Attached  
Joist Ban 2" x 10" P.T. Attached w/ 1/2" x 4" (32" o.c.) Lags \* To be screwed into house Joist Ban or Floor Joist  
\* Attached w/ Joist hangers + Simpson non shearing nails. W/ 2" x 2" P.T. Ledger with 3" GRK screws

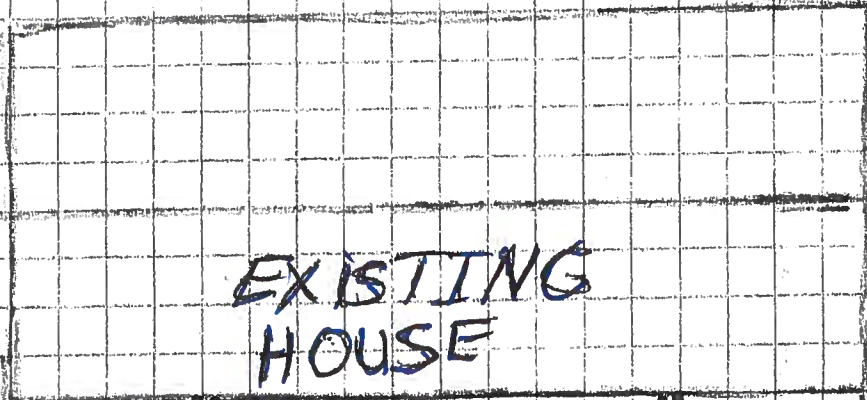
\* Attachment - Bottom of 6" x 6" P.T. Post Simpson 6" x 6" Base Bracket's Bolted Post to pre-cast piers w/ Concr Bolt  
NOT TO SCALE

348 Woodford St.

PLAN VIEW  
ARIEL VIEW

HOLTAN BUS FORMS & SYSTEMS (207) 783-0400

■ NEW  
■ EXISTING



EXISTING HOUSE

NEW DECK

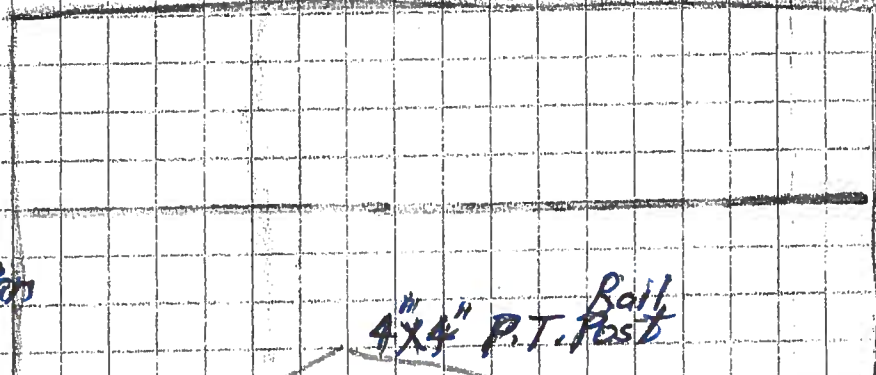
← 6' x 16'

\* See Attached Figure A1 + A2

\* Details

Deck Joist Support

Joist Hangers on P.T. Deck Beam  
w/ Simpson Nbr Sheeting Nails  
w/ a "x" P.T. Ledger Under Floor Joist



ARIEL STRUCTURAL VIEW

4" x 4" P.T. Post

POST

4" x 4" POST RAILING - P.T.

4) 6" x 6" P.T.

2" x 10" (3) GIRDER - P.T.

4) 4" x 4" P.T. Rail Post  
6' o.c.

2" x 8" 16 O.C. JOIST + Band  
P.T.

6" x 6" 6" x 6" 6" x 6"  
← 4' → 4' → 4' → 8' ac. -  
o.c. o.c.

Ref. No. G 050911523

NOT TO SCALE

# SIDE PROFILE

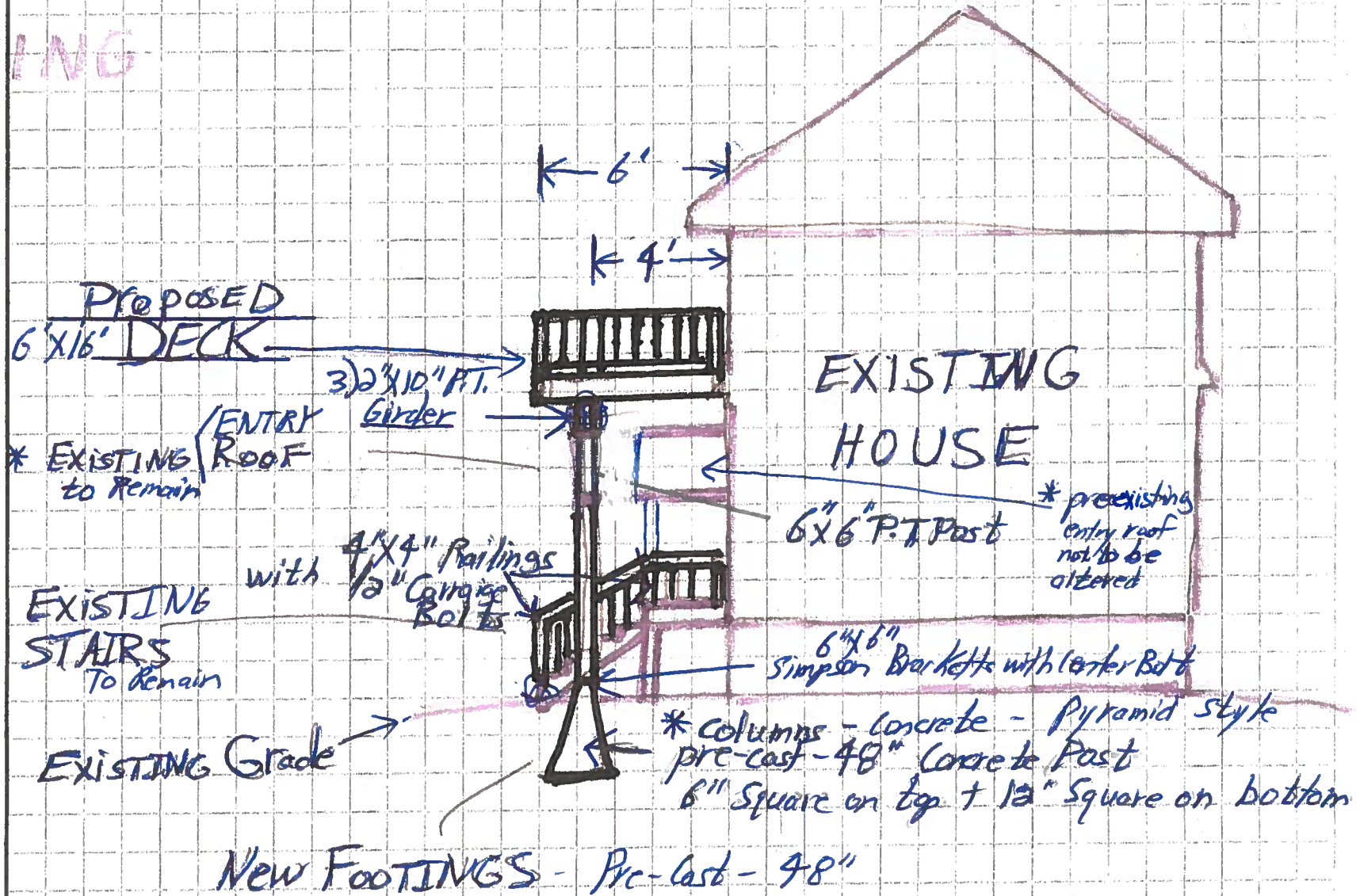
8' X 16' DECK

346 Woodford St  
Portland, ME

■ NEW

■ EXISTING

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Ref. No. G 059211553

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# SIDE PROFILE

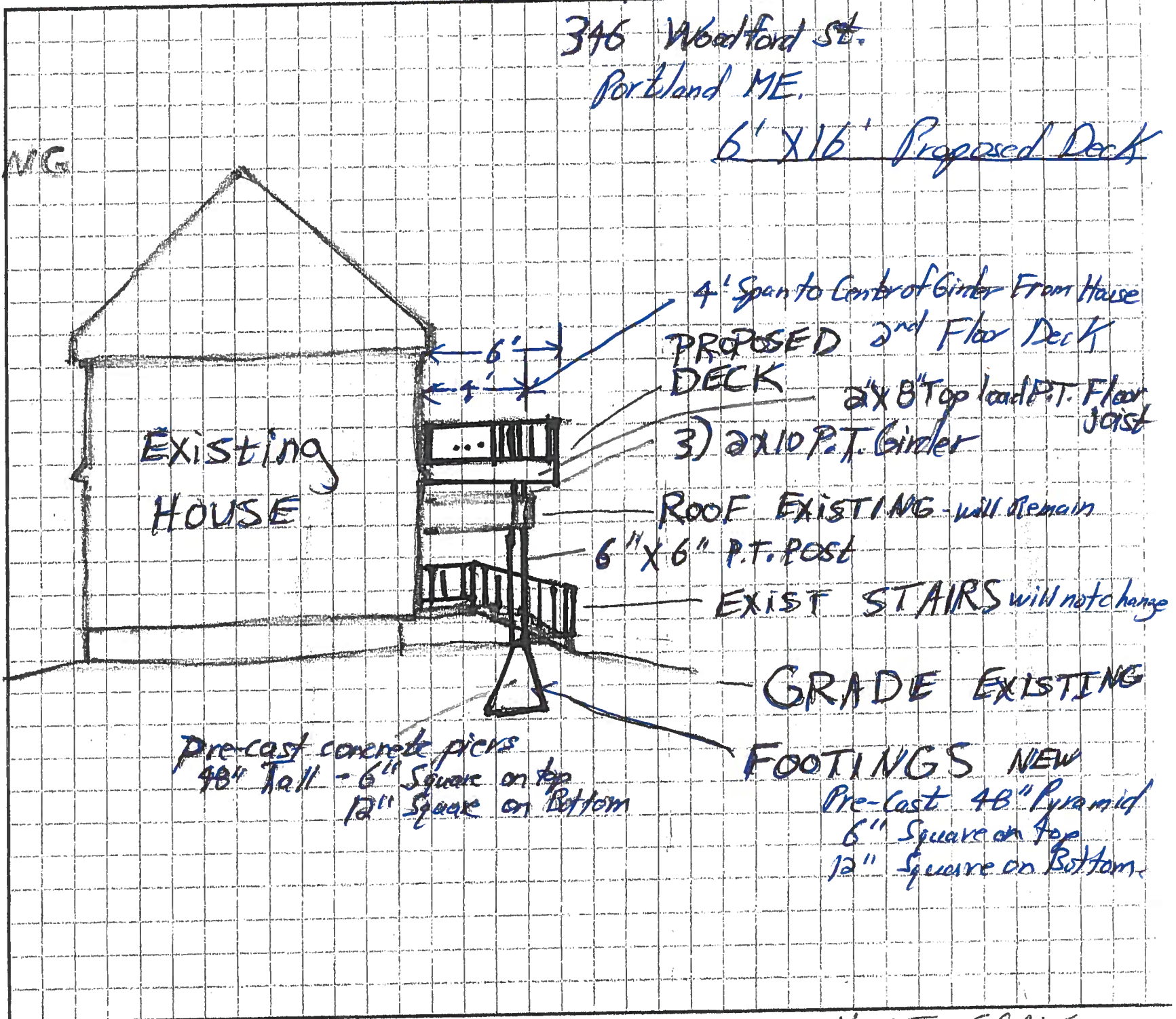
346 Woodford St.  
Portland ME.

6' x 16' Proposed Deck

HOLDAN BUS FORMS & SYSTEMS - (207) 783-0400

■ NEW

■ EXISTING



Existing HOUSE

4' Span to Center of Girder From House  
PROPOSED 2nd Floor Deck

2x8 Top load P.T. Floor Joist  
3) 2x10 P.T. Girder

ROOF EXISTING - will remain

6" x 6" P.T. Post

EXIST STAIRS will not change

GRADE EXISTING

Pre-cast concrete piers  
48" Tall - 6" Square on top  
12" Square on Bottom

FOOTINGS NEW  
Pre-Cast 48" Pyramid  
6" Square on top  
12" Square on Bottom

Pat. No. 9 05911553

NOT TO SCALE

346 Woodford Street  
6' x 16' Deck

Table A1

IRC TABLE 502.2.2.1  
FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND A 2-INCH NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST<sup>c,f,g</sup> (Deck live load = 40 psf, deck dead load = 10 psf)

FLOOR JOIST SPAN	6' and less	6'1" to 8'	8'1 to 10'	10'1" to 12'	12'1" to 14'	14'1" to 16'	16'1" to 18'
Connection details	On-center spacing of fasteners <sup>d,e</sup>						
1/2 inc diameter lag screw with 15/32 inch maximum sheathing <sup>a</sup>	30	23	18	15	13	11	10
1/2 inch diameter bolt with 15/32 inch maximum sheathing	36	36	34	29	24	21	19
1/2 inch diameter bolt with 15/32 inch maximum sheathing and 1/2 inch stacked washers, <sup>b,h</sup>	36	36	29	24	21	18	16

Figure A1

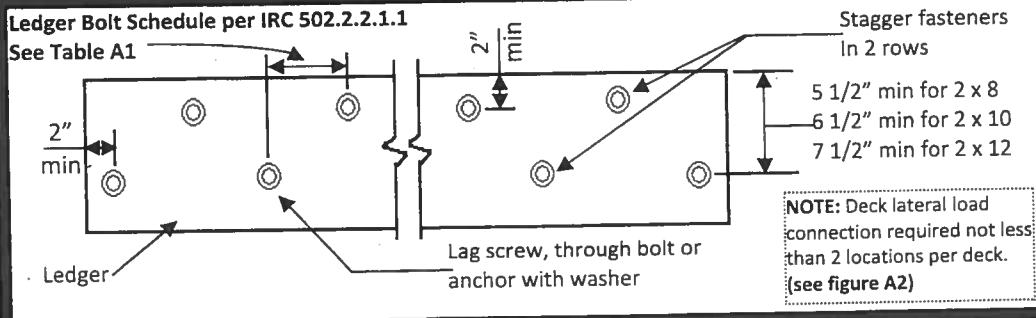
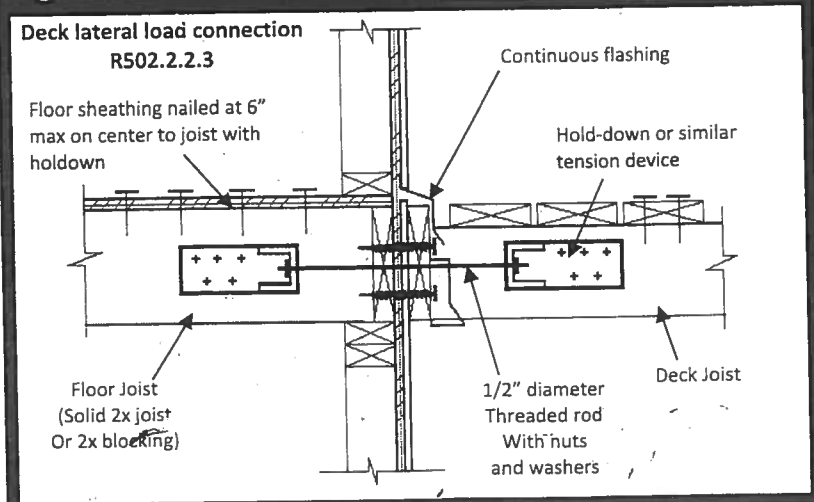


Figure A2



- The tip of the lag screw shall fully extend beyond the inside face of the band joist.
- The maximum gap between the face of the ledger board and face of the band joist.
- Ledgers shall be flashed to prevent water from contacting the house band joist.
- Lag screws and bolts shall be staggered in accordance with the diagram above.
- Deck ledger shall be minimum 2 x 8 pressure-preservative-treated No. 2 grade lumber, or other approved materials by standard engineering practice.
- When solid-sawn preservative-treated deck ledgers are attached to a minimum 1 inch thick engineered wood product (structural composite lumber, LVL or wood structural panel band joist), the ledger attachment shall be designed in accordance with accepted engineering practice.
- A minimum 1 x 9 1/2 Douglas Fir LVL rimboard shall be permitted in lieu of the 2-inch nominal band joist.
- Wood structural panel sheathing, gypsum board sheathing or foam sheathing not exceeding 1 inch thickness shall be permitted. The maximum distance between the face of the ledger board and the face of the band joist shall be 1 inch.