

STRUCTURAL ENGINEER NOTES:
• PLANS BONDED BY:

MARCEL PAPINEAU, P.E.
INTELLIGENT DESIGN ENGINEERING
1945 J N Pease Pl, #204
Charlotte, NC 28262
704.335.7200
http://idecharlotte.com/
Email: Marcel@IDEcharlotte.com



FOUNDATION, BEAMS & POSTING WORK NOTES:
• CONSULTING & CONSTRUCTION WITH:

Craig Scanlon
R.E. Burns & Sons Co., Inc.
P.O. Box 7168
Statesville, NC 28687
704-881-3135
https://www.reburns.com/REBurns.htm
craig.reburns@gmail.com

TREE HARDWARE USED TO SUPPORT BEAM IN TREES
& GENERAL TREEHOUSE INFORMATION NOTES:
• CONSULTING & DIRECTION WITH:

Daryl McDonald
Nelson Treehouse and Supply
(Treehouse Masters)
PO Box 1135
Fall City, WA 98024
www.nelsontreehouse.com

TREE INSPECTION NOTES:

- TREE #1 - RED OAK
- TREE #2 - WHITE OAK
- BOTH TREES INSPECTED AND FOUND SOUND TO BUILD IN (REPORT SUBMITTED FOR REFERENCE):

John A Maurice
Heartwood Tree Service LLC
ISA Board Certified Master Arborist SO-5414BT ISA Quali-
fied Tree Risk Assessor john@heartwoodtree.com

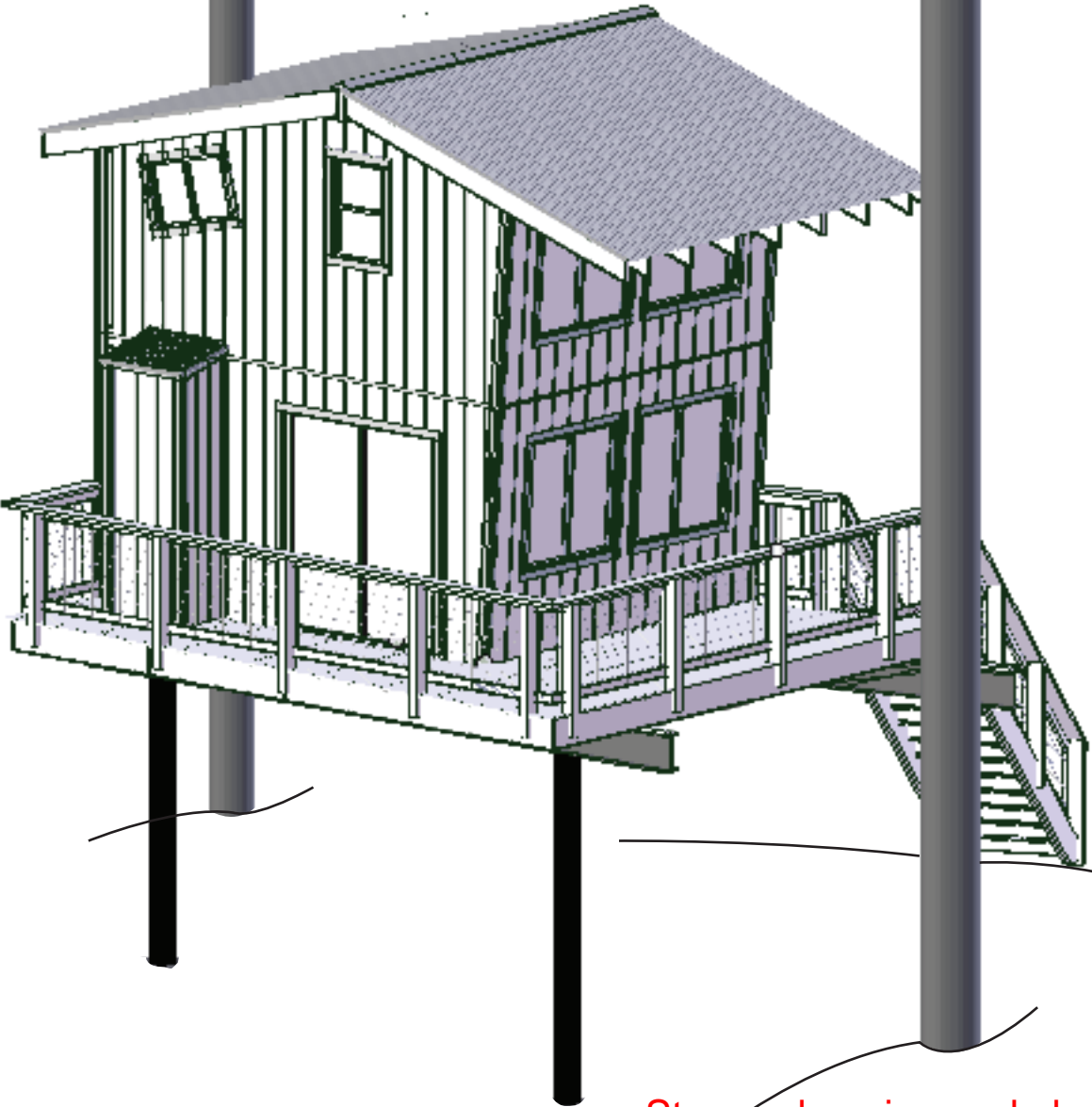
GENERAL NOTES:

- STANDARD STUD FRAMING 2"x4" @ 16" O.C. UNLESS OTHER- WISE INDICATED
- 7/16" OSB EXTERIOR WALL SHEATHING AND FELT ROOF UNDER- LAYMENT AS HOUSE WRAP
- NUMBER OF STAIR TREADS AND RISERS MAY VARY AS A RESULT OF LOCAL BUILDING CODES, STANDARDS AND FINAL GRADE
- BOARD AND BATTEN EXTERIOR IN ROUGH CUT LUMBER OR RECLAIMED LUMBER
- ALL PLUMBING FIXTURES SHOWN ARE A REPRESENTATION OF SIZE AND LOCATION ONLY. ACTUAL BRAND AND STYLE OF FIXTURES MAY VARY PER OFFICE LOCATION
- R-15 INSULATION IN WALLS
- R-38 INSULATION IN ROOF

BRACED WALL LINE NOTE:

THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING CONTINUOUSLY SHEATHED 7/16" OSB WALL SHEATHING USING 8d NAILS AT 6" O.C. ALONG EDGES AND 12" O.C. AT INTERMEDIATE FRAMING. BLOCK AND NAIL ALL PANEL EDGES.

WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATER- AL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE. SEE PLANS FOR ALL NOTES AND DETAILS.



Stamped engineered plans,
any deviation from these plans will
also require a sealed design change

SHEET LIST CONSTRUCTION

SHEET NUMBER	SHEET NAME
C.0	COVER SHEET
FR.2	FRONT & REAR ELEVATIONS
LR.2	LEFT & RIGHT ELEVATIONS
TBF.1	TREE, BEAM FOUNDATION & FIRST FLOOR JOIST LAYOUT
TBP.2	TREE, BEAM & POST ELEVATION
S.1.1	FIRST FLOOR PLAN
S.1.2	LOFT JOIST LAYOUT
S.1.3	LOFT PLAN
S.1.4	ROOF JOIST LAYOUT
S.1.5	ROOF PLAN
S.5.1	FRONT WALL FRAMING DETAILS
S.5.2	LEFT WALL FRAMING DETAILS
S.5.3	RIGHT WALL FRAMING DETAILS
S.5.4	DETAILS 1
S.5.5	DETAILS 2
S.6	SCHEDULE DETAILS

REVIEWED FOR CODE COMPLAINE
ALL WORK SUBJECT TO FIELD INSPECTION

AREAS

FIRST FLOOR HABITABLE	145.8 SQ. FT.
GROSS FLOOR AREA	
LOFT HABITABLE	112.5 SQ. FT.
GROSS FLOOR AREA	

FIRST FLOOR HEATED	173 SQ. FT.
LOFT HEATED	112.5 SQ. FT.
TOTAL HEATED	285.5 SQ. FT.

COVERED FRONT DECK	76.8 SQ. FT.
COVERED READING NOOK/ OUTDOOR SHOWER AREA	11.6 SQ. FT.
TOTAL UNHEATED UNDER ROOF	88.4 SQ. FT.
TOTAL UNDER ROOF	373.9 SQ. FT.

REVISIONS	BY
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tim.thomson2016@gmail.com
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Date: 11 - 8 - 18
Scale: 3/16" =1'- 0"
Paper: 11"x17"
Print @ 101.5%
The: Treehouse
Sheet Number:

C.0

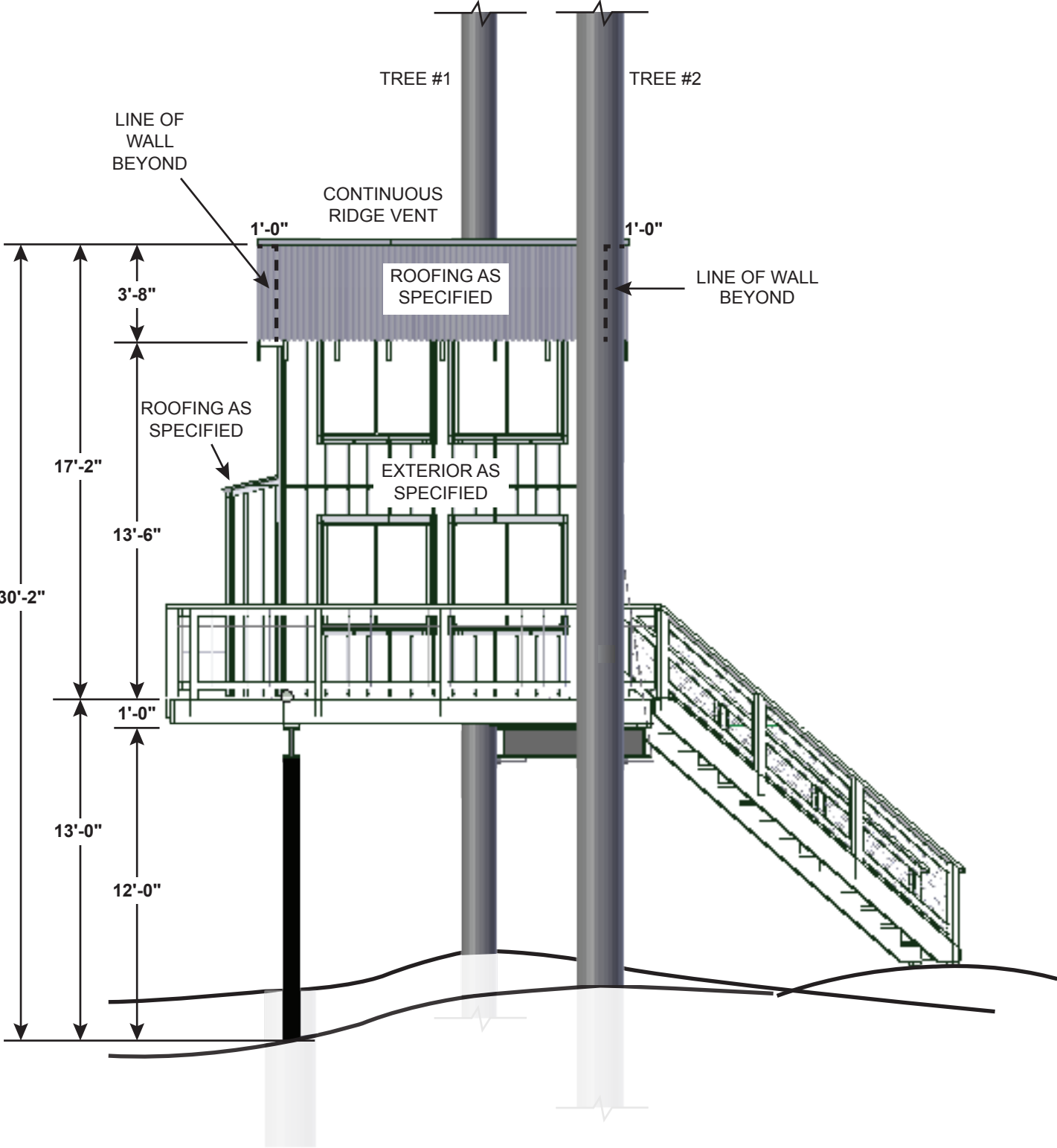
COVER
SHEET

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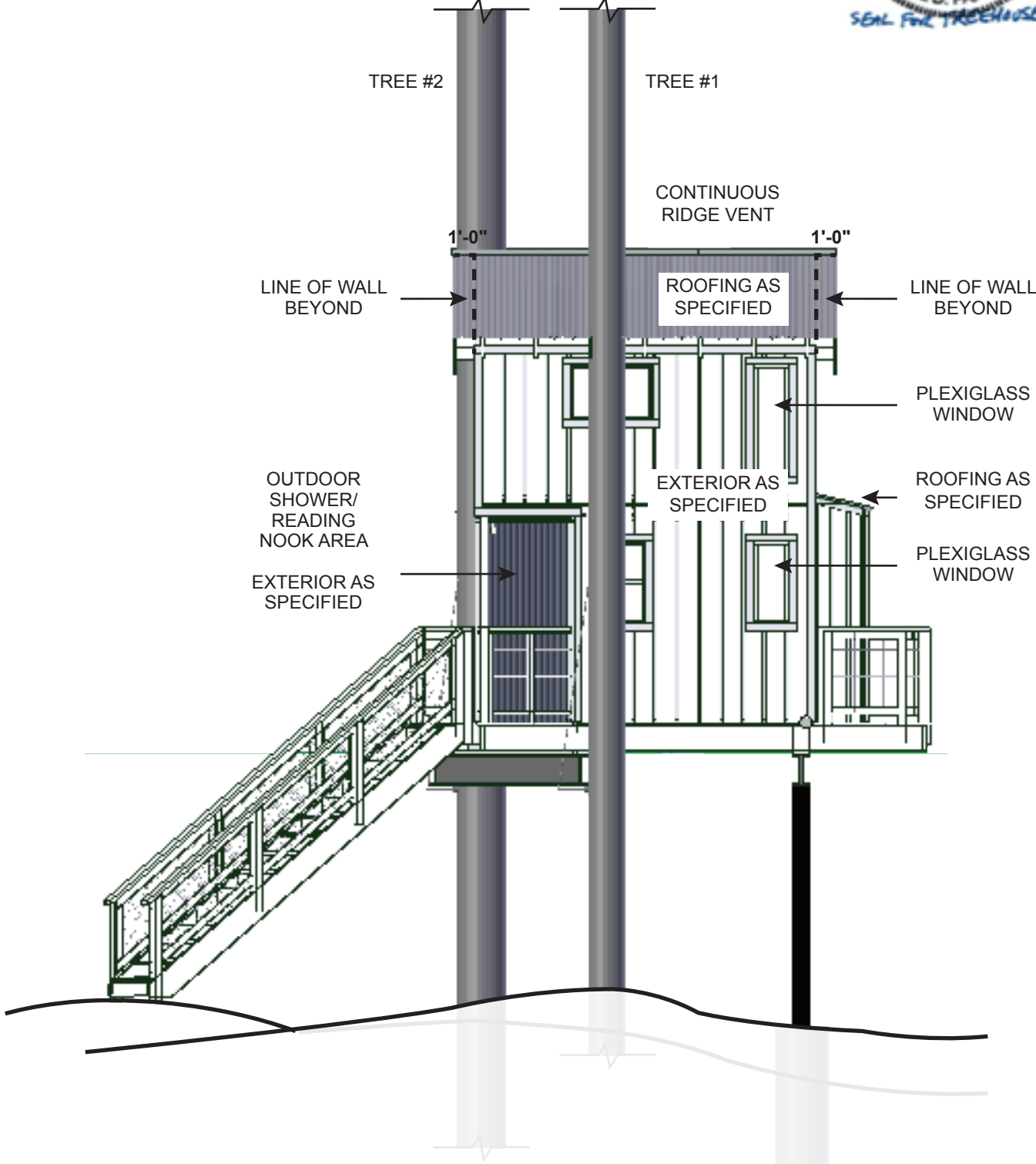
GENERAL NOTES:
• ALL WINDOWS ARE VINYL UNLESS OTHERWISE INDICATED

ELEVATION NOTES:
• ROOF OVERHANGS, AS NOTED, ARE FROM WALL SHEATHING TO RAFTER TAILS
• RAILINGS SHOW N ON ELEVATIONS ARE FOR ILLUSTRATION PURPOSES ONLY, ACTUAL RAIL DETAIL WILL VARY PER LOCATION

FRONT ELEVATION



REAR ELEVATION



IDE
INTELLIGENT DESIGN
ENGINEERING
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FR.2

FRONT &
REAR
ELEVATIONS

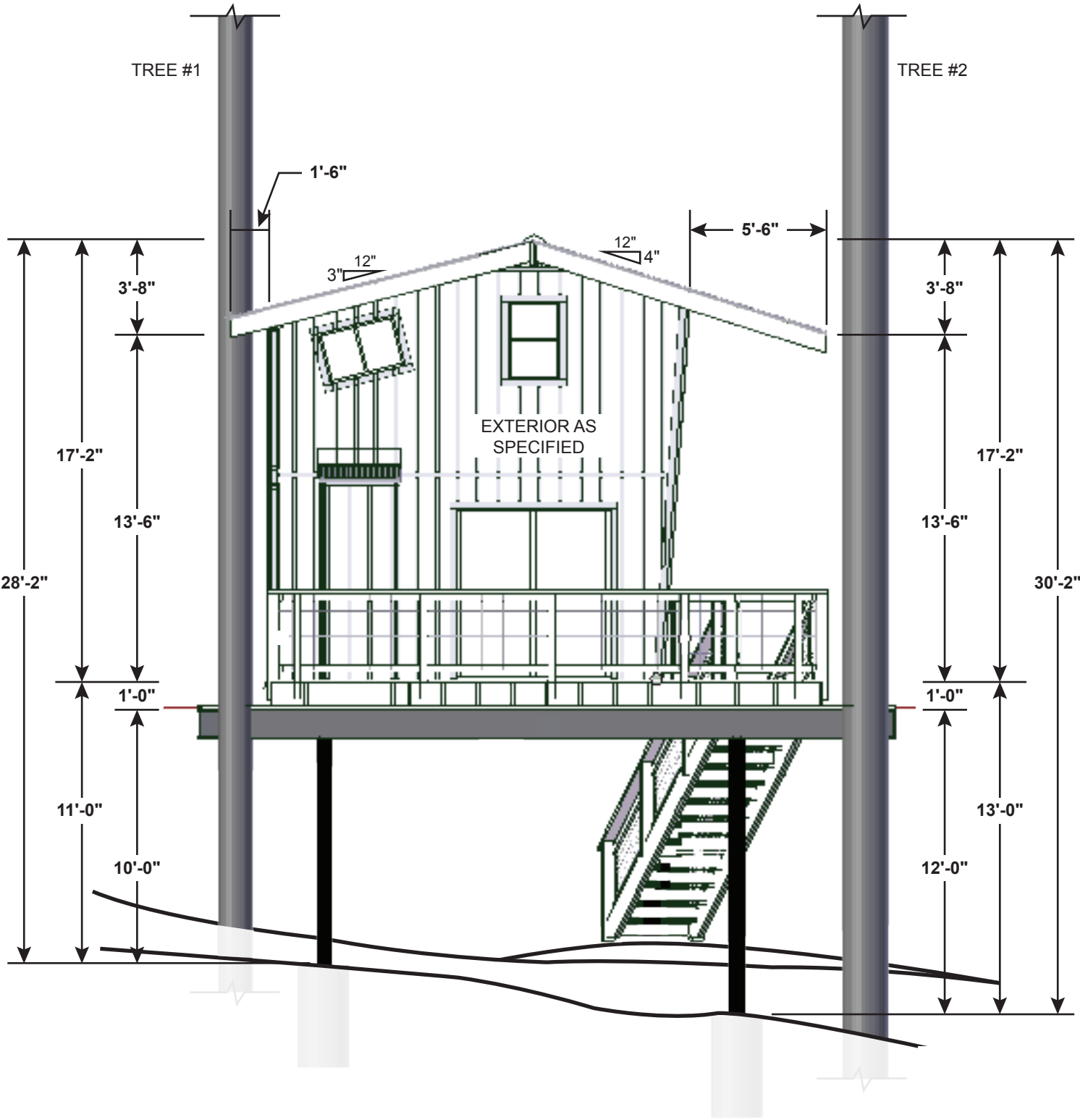
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GENERAL NOTES:
• ALL WINDOWS ARE VINYL

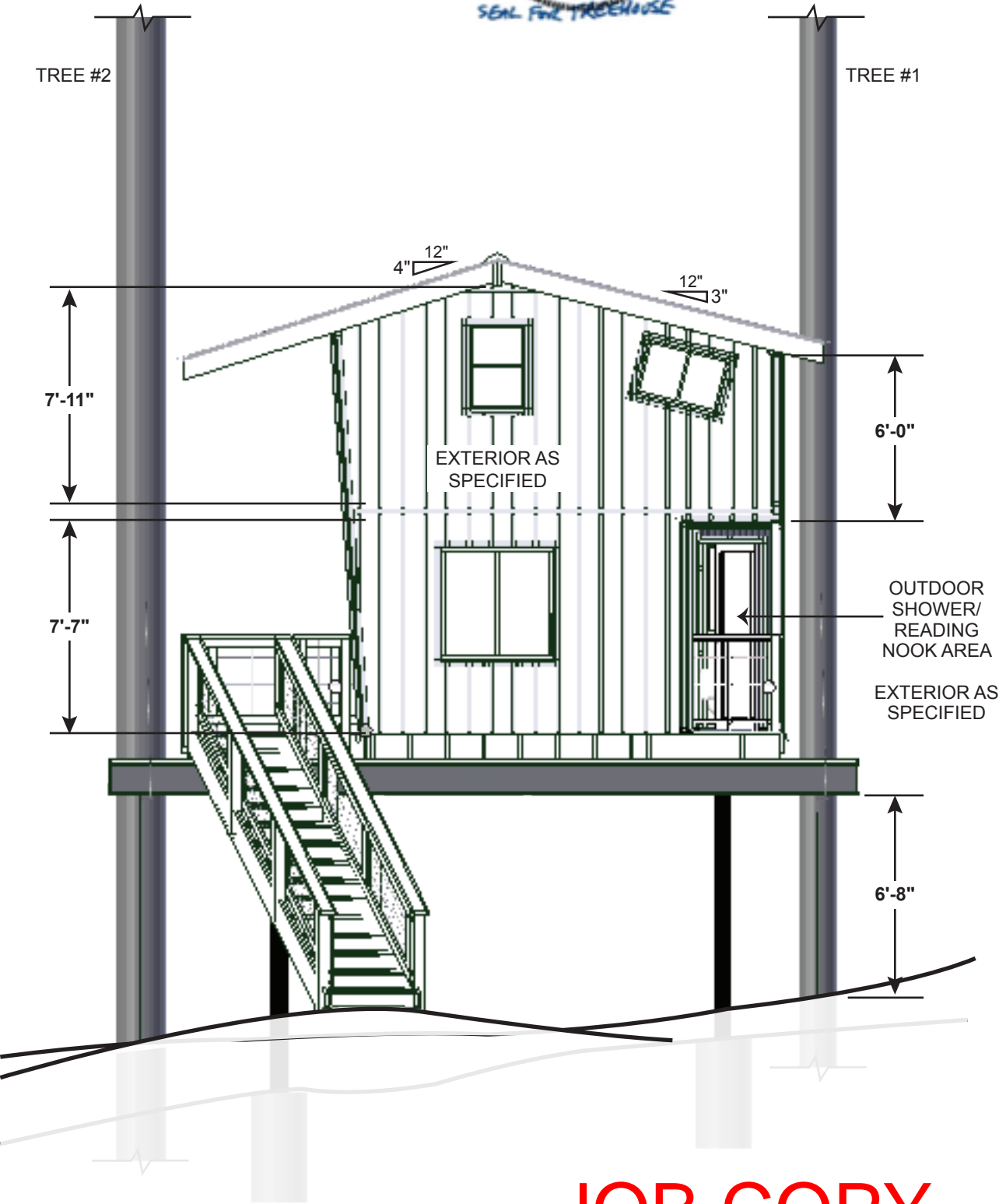
- ELEVATION NOTES:
- MINIMUM 7'-7" CEILING HEIGHT ON FIRST FLOOR
 - MINIMUM 7'-11" CEILING HEIGHT ON LOFT FLOOR
 - ROOF OVERHANGS, AS NOTED, ARE FROM WALL SHEATHING TO RAFTER TAILS
 - RAILINGS SHOW N ON ELEVATIONS ARE FOR ILLUSTRATION PURPOSES ONLY, ACTUAL RAIL DETAIL W ILL VARY PER LOCATION



LEFT ELEVATION



RIGHT ELEVATION



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LR.2	
LEFT & RIGHT ELEVATIONS	

GENERAL NOTES:

- ALL JOISTS TO BE 2"X12" @ 16" O.C. SPF #2 P.T.
- KEEP WALLS & ROOF MIN 6' FROM TREES
- FASTEN ALL JOISTS TO THE 2"X6" P.T. SOLE PLATE ON THE TOP OF STEEL BEAM W/ (3) 16D TOENAILS

TREE #1 & #2 NOTES:

- TREE #1 - RED OAK
- TREE #2 - WHITE OAK
- BOTH TREES INSPECTED AND FOUND SOUND TO BUILD IN (REPORT SUBMITTED FOR REFERENCE):

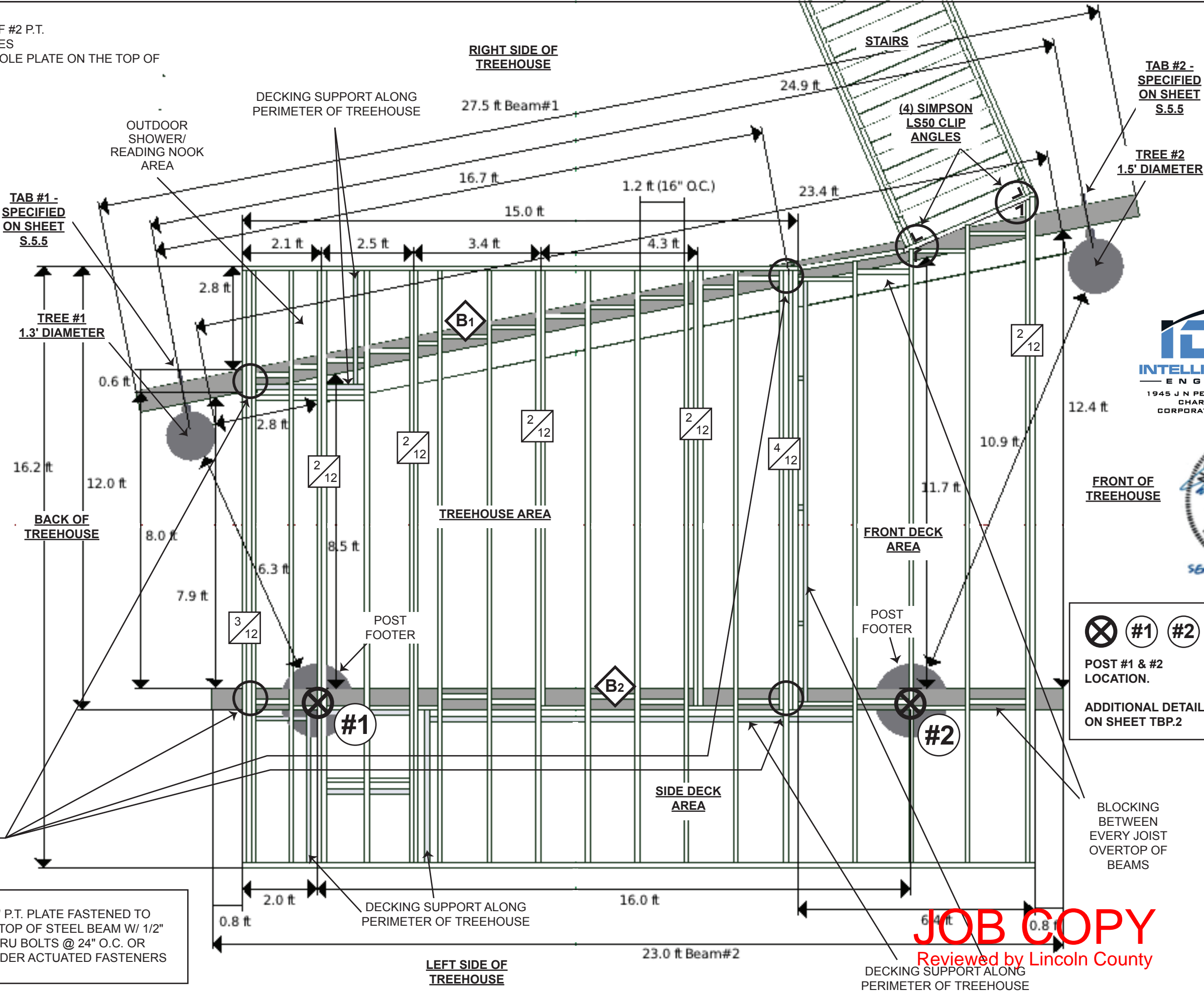
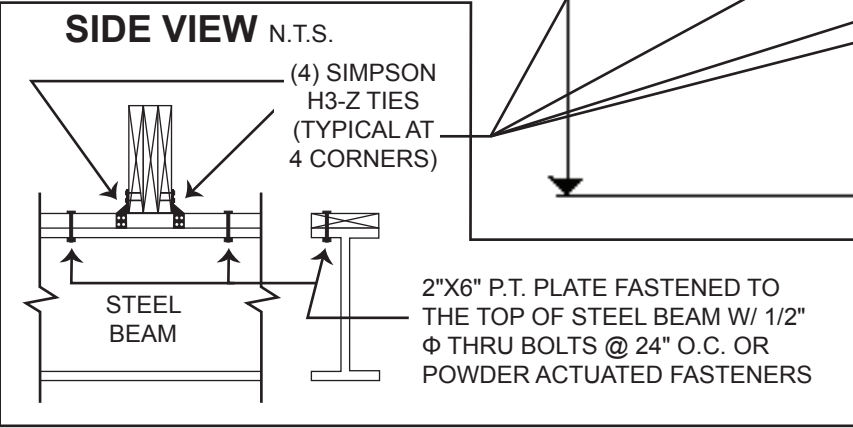
John A Maurice
Heartwood Tree Service LLC
ISA Board Certified Master Arborist
SO-5414BT ISA Qualified Tree Risk Assessor john@heartwoodtree.com

LUMBER NOTES:

- (2) 2"X12" (DBLS) P.T. SYP #2
- (3) 2"X12" P.T. SYP #2 FASTENED TOGETHER 3 ROWS OF 16D NAILS @ 12" O.C.
- (4) 2"X12" P.T. SYP #2 FASTENED TOGETHER WITH 2 ROWS OF 6" FLATLOK-Z SCREWS @ 16" O.C.

BEAM NOTES:

- **B₁** - STEEL I BEAM - W 16 X 36 @ 28' - SPECIFIED ON SHEET S.6
- **B₂** - STEEL I BEAM - W 16 X 36 @ 23' - SPECIFIED ON SHEET S.6
- **B** - SYP #2 P.T. SOLE PLATE BOLTED TO TOP EACH BEAM SO JOISTS CAN BE TOENAILED IN PLACE WHERE CROSSED
- FLASHING TAPE ON TOP OF EXPOSED BEAM TOP PLATES



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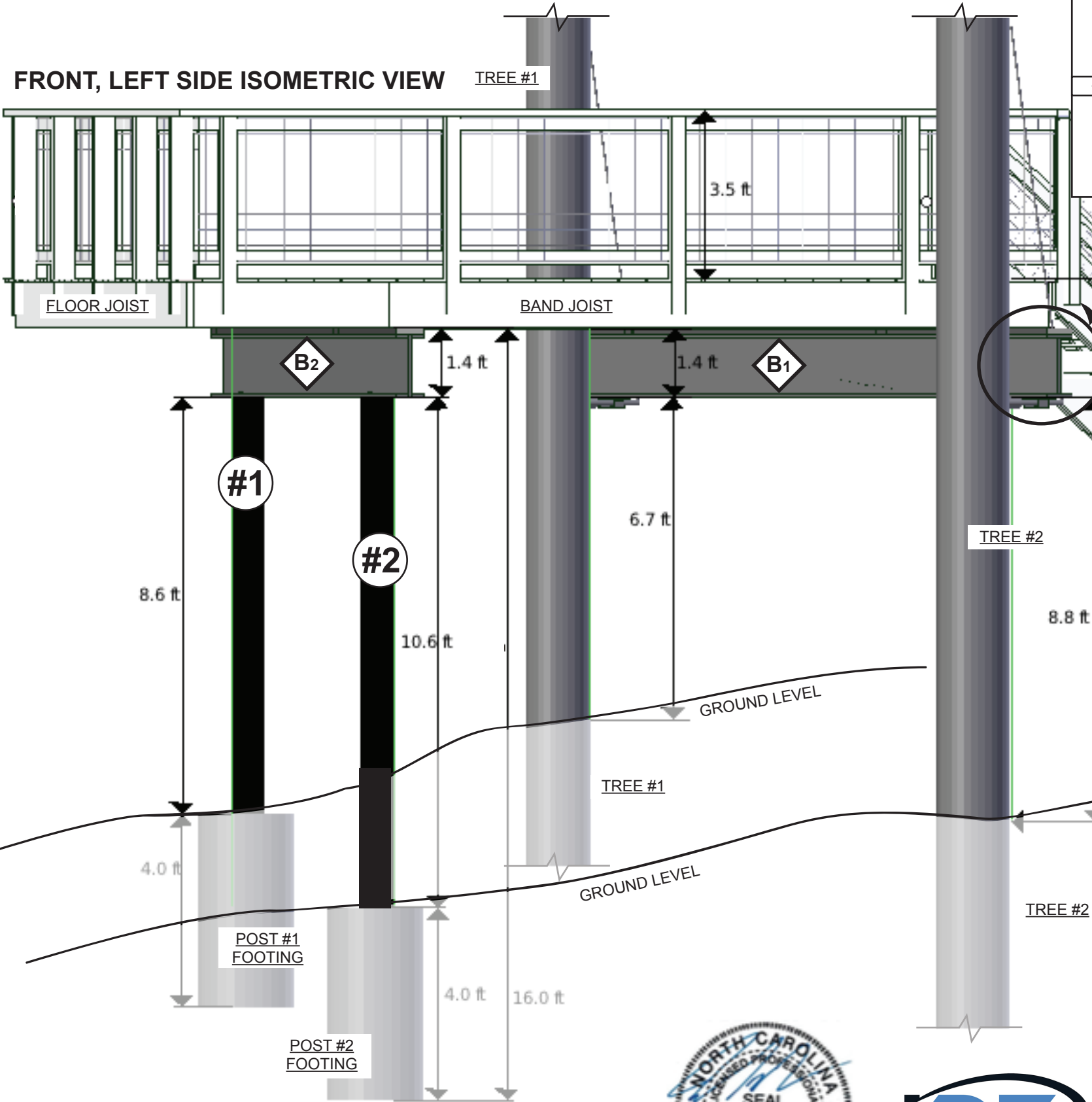
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CORPORATE LICENSE #: C-3118

NORTH CAROLINA
SEAL
032627
2/28/19
ENGINEER
MARCEL D. PAPINEAU
SEAL FOR TREEHOUSE

Date: 11 - 8 - 18
Scale: 3/8" = 1'- 0"
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The: Treehouse
Sheet Number:
TBF.1
TREE, BEAM
FOUNDATION
& FIRST
FLOOR
JOIST
LAYOUT

- GENERAL NOTES:
- (OPTIONAL) ADD MULCH ON HIGH TRAFFIC AREAS AROUND TREES
 - AVOID CUTTING TREE ROOTS OVER 3" DIAMETER

FRONT, LEFT SIDE ISOMETRIC VIEW



POST #2 NOTES:

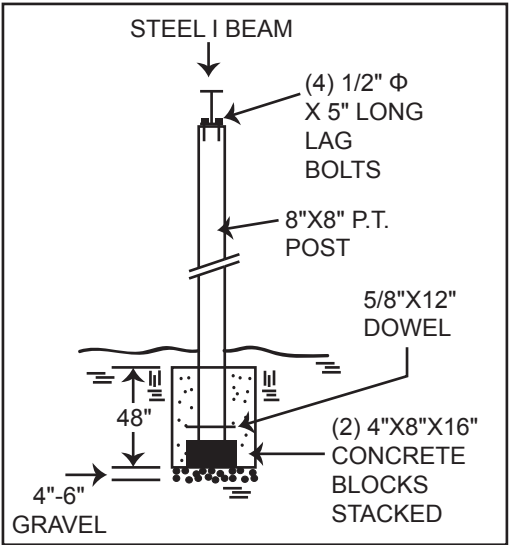
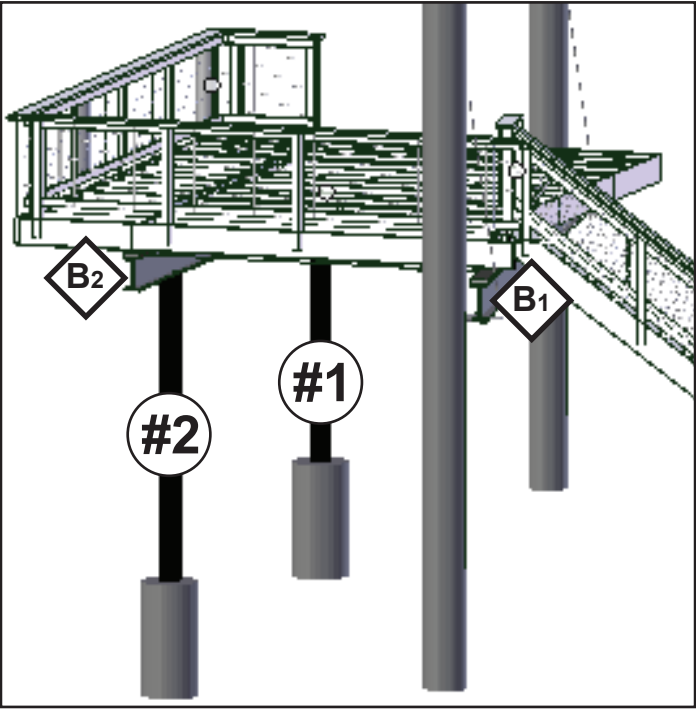
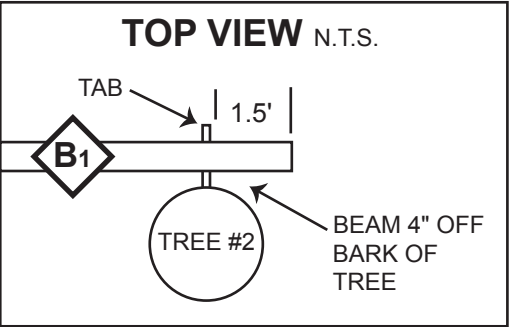
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- BECAUSE STEEL BEAMS ARE BEING USED POST #2 CAN BE LOCATED UNDER CORNER OF TREEHOUSE UNDER BEAM IF NEEDED



TOP, FRONT, RIGHT SIDE ISOMETRIC VIEW

N.T.S.



FULL SECTION VIEW FOR POST #1 #2 (N.T.S.):

- 8"X8" SYP #2 P.T. POST FASTENED TO BOTTOM FLANGE OF STEEL BEAM WITH (4) 1/2" Φ X 5" LONG LAG BOLTS (GALVANIZED)
- (2) 4"X8"X16" CONCRETE BLOCKS STACKED
- CONCRETE FOOTER DIAMETER - 2'
- CONCRETE FOOTER DEPTH - 4'
- FOOTINGS - NO FORMING TUBE USED. NEED SOIL FRICTION TO OBTAIN FULL CAPACITY
- FOOTER OVER 2000 PSF BEARING CAPACITY SOIL
- 4" 6" GRAVEL LAYER AT BOTTOM OF HOLES FOR DRAINAGE

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TBP.2	
TREE, BEAM & POST ELEVATION	

- P.T. 5/4"X6" USED FOR DECKING AND STEPS
- SUB FLOOR STANDARD OSB RUNNING PERPENDICULAR TO FLOOR JOISTS

- NUMBER OF STAIR TREADS AND RISERS MAY VARY AS A RESULT OF LOCAL BUILDING CODES, STANDARDS AND FINAL GRADE
- STAIRS OUTSIDE STRINGERS ARE (2) P.T. 2"X12" SISTERED TOGETHER
- STAIRS CENTER STRINGER (1) P.T. 2"X12"

- P.T. 2"X8" RAILING CAP
- GALVANIZED WELDED WIRE ROLLED FENCING (MESH SIZE - 2"X4")
- P.T. 4"X6" RAILING POSTS
- RAILING POSTS FASTENED TO DECK USING - (2) FASTEN MASTER #0 X 6-1/4-IN SILVER ECOAT HEX-HEAD INTERIOR/EXTERIOR STRUCTURAL WOOD SCREWS
- TOP OF RAILING TO BE 36" HIGH



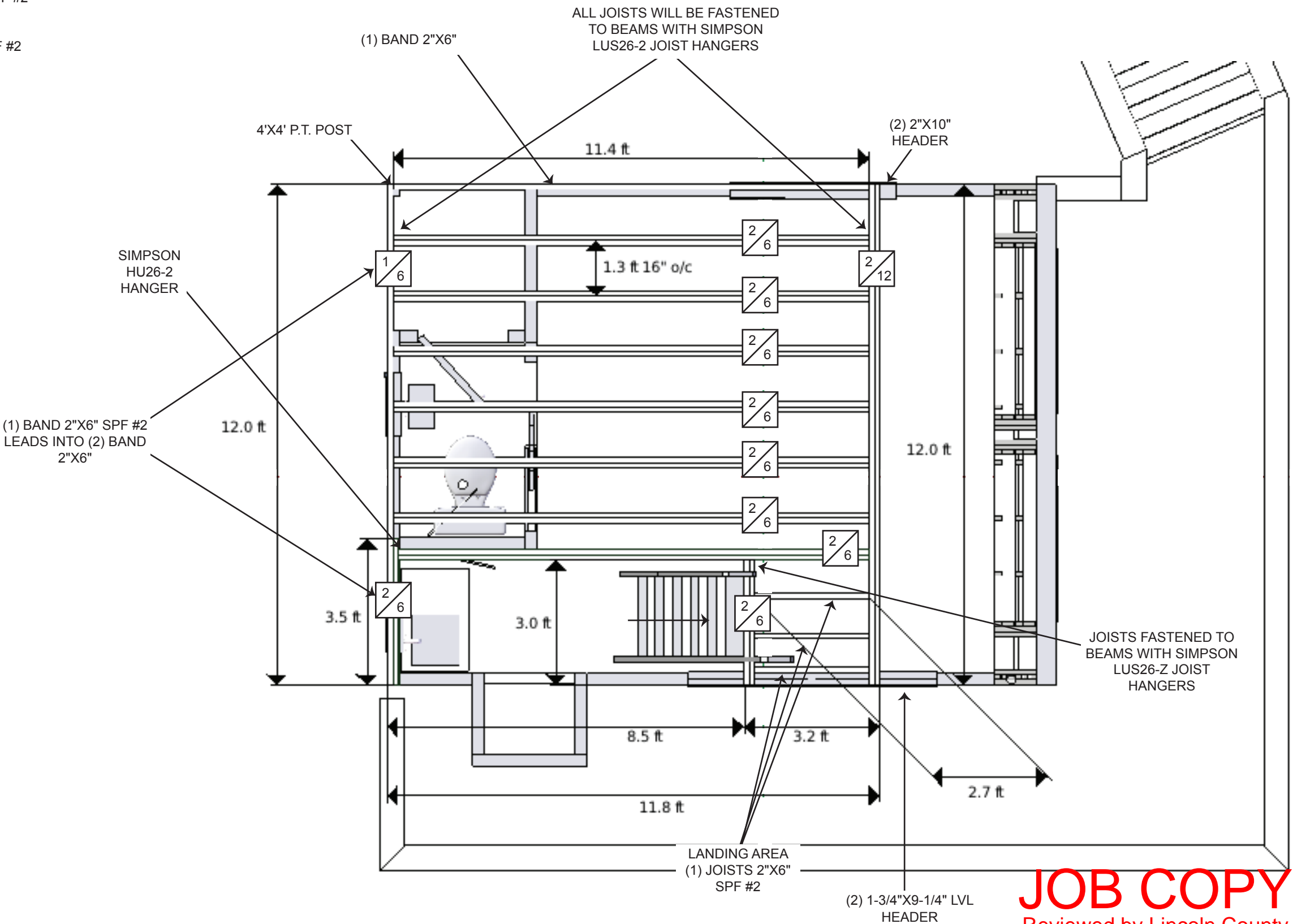
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FIRST FLOOR PLAN

- GENERAL NOTES:**
- ALL LOFT FLOOR JOISTS (EXCEPT FOR LOFT LATTER LANDING) TO BE (2) 2"X6" @ 16" O.C. SPF #2
 - LOFT LADDER LANDING FLOOR JOISTS TO BE (1) 2"X6" SPF #2
 - LOFT CROSS BEAM TO BE (2) 2"X12"

- LUMBER NOTES:**
- LOFT BEAM - (2) 2"X12" (DBLS) SPF #2

- LOFT JOISTS (2) 2"X6" (DBLS) SPF #2



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S.1.2	
LOFT JOIST LAYOUT	

GENERAL NOTES:

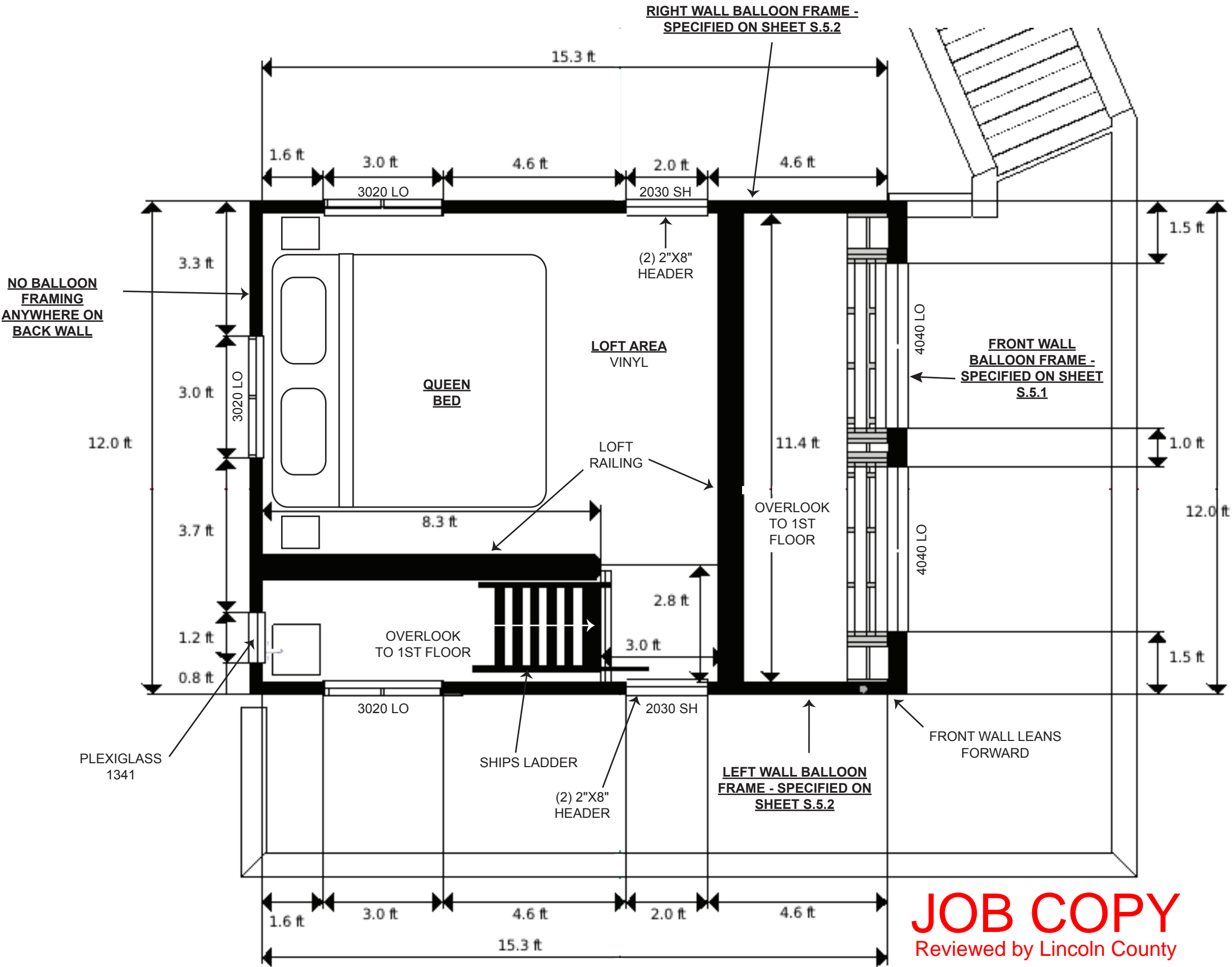
- SUB FLOOR STANDARD 3/4" TONGUE & GROOVE PLYWOOD RUNNING PERPENDICULAR TO FLOOR JOISTS

LOFT RAILING NOTES:

- 2"X8" RAILING CAP
- GALVANIZED WELDED WIRE ROLLED FENCING (MESH SIZE - 2"X4")
- 4"X6" RAILING POSTS
- RAILING POSTS FASTENED TO DECK USING - FASTEN MASTER #0 X 6-1/4-IN SILVER ECOAT HEX-HEAD INTERIOR/EXTERIOR STRUCTURAL WOOD SCREWS

SHIPS LADDER (ACCESS TO LOFT) NOTES:

- SHIPS LADDER USED TO ACCESS THE LOFT
- SHIPS LADDER STEPS TO BE 2"X6"S
- SHIPS LADDER RAILS TO BE 2"X10"S WITH BUILT IN HANDLES

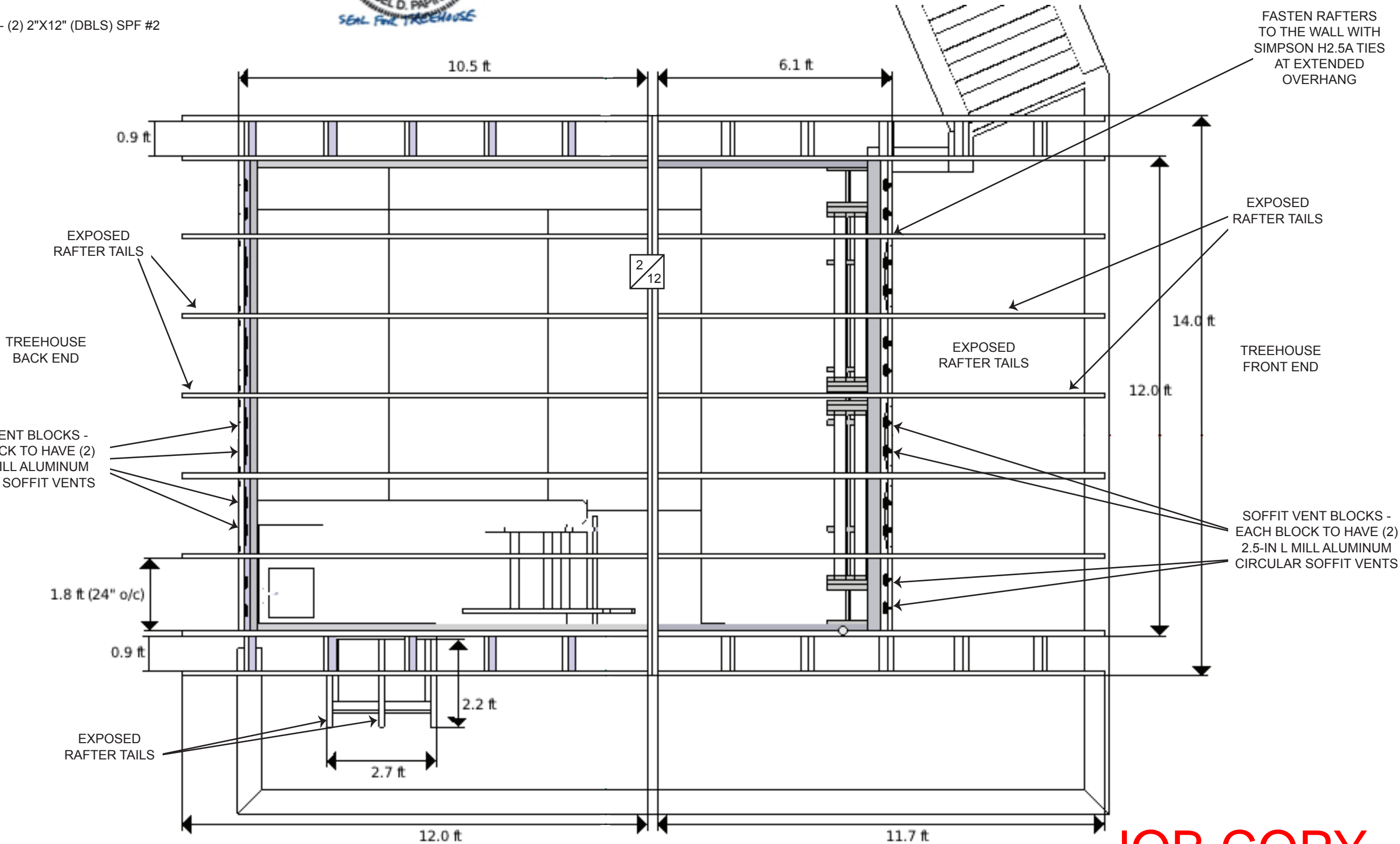


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S.1.3	
LOFT PLAN	

- GENERAL NOTES:**
- RAFTERS FASTENED TO RIDGE BEAM WITH (6) 16D TOENAILS
 - ALL RAFTERS TO BE 2"X10" @ 24 O.C.
 - OVERHANG SOFFIT VENT BLOCKING TO OCCUR OVER WALL
 - ROOF IS 3/12 PITCH ON TREEHOUSE BACK END
 - ROOF IS 4/12 PITCH ON TREEHOUSE FRONT END

- LUMBER NOTES:**
- 2/12 • RIDGE BEAM - (2) 2"X12" (DBLS) SPF #2



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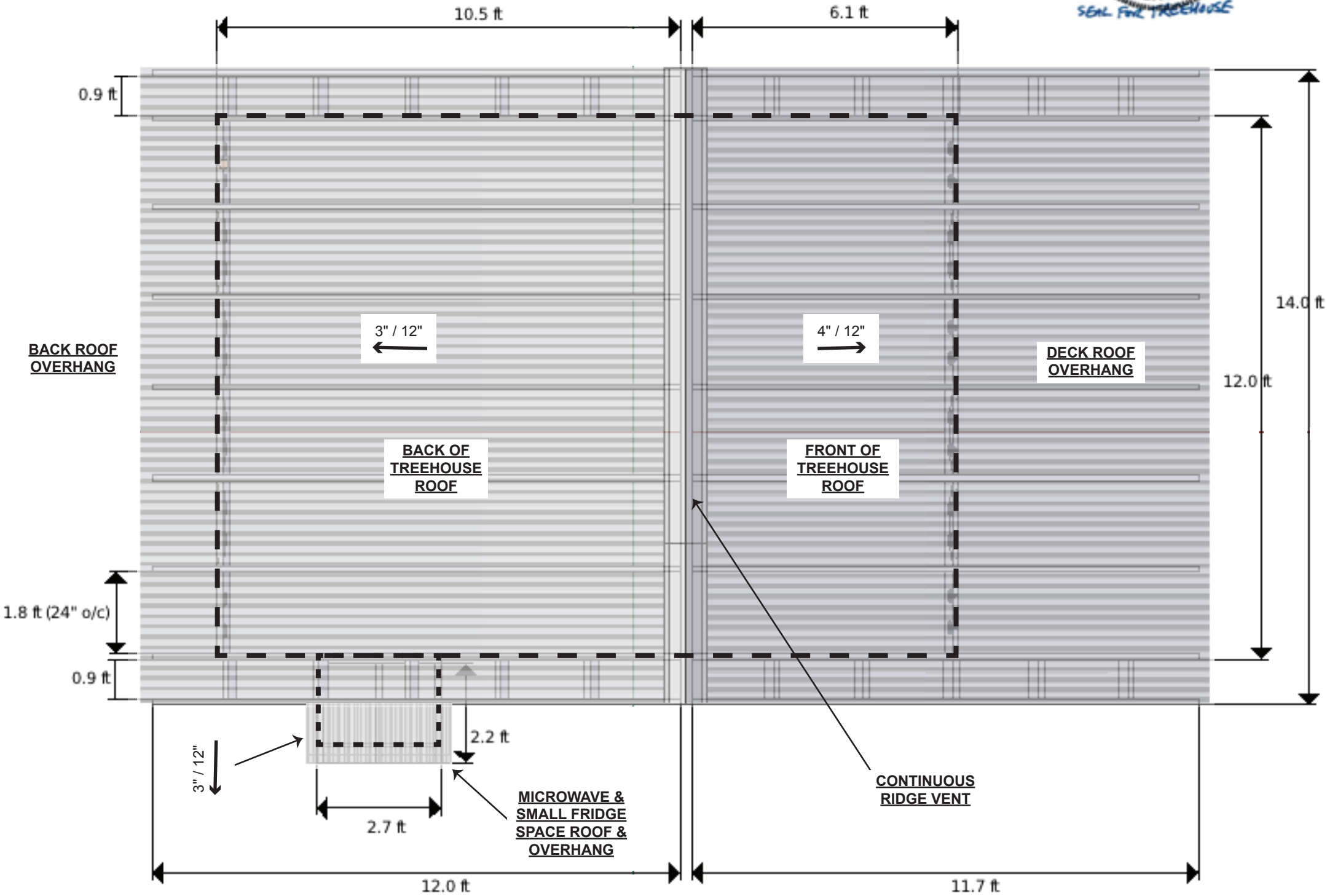
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**ROOF JOIST
LAYOUT**

GENERAL NOTES:
• ROOF OSB TO START AT CORNER OF OVERHANG AND RUN PARALLEL WITH RIDGE BEAM



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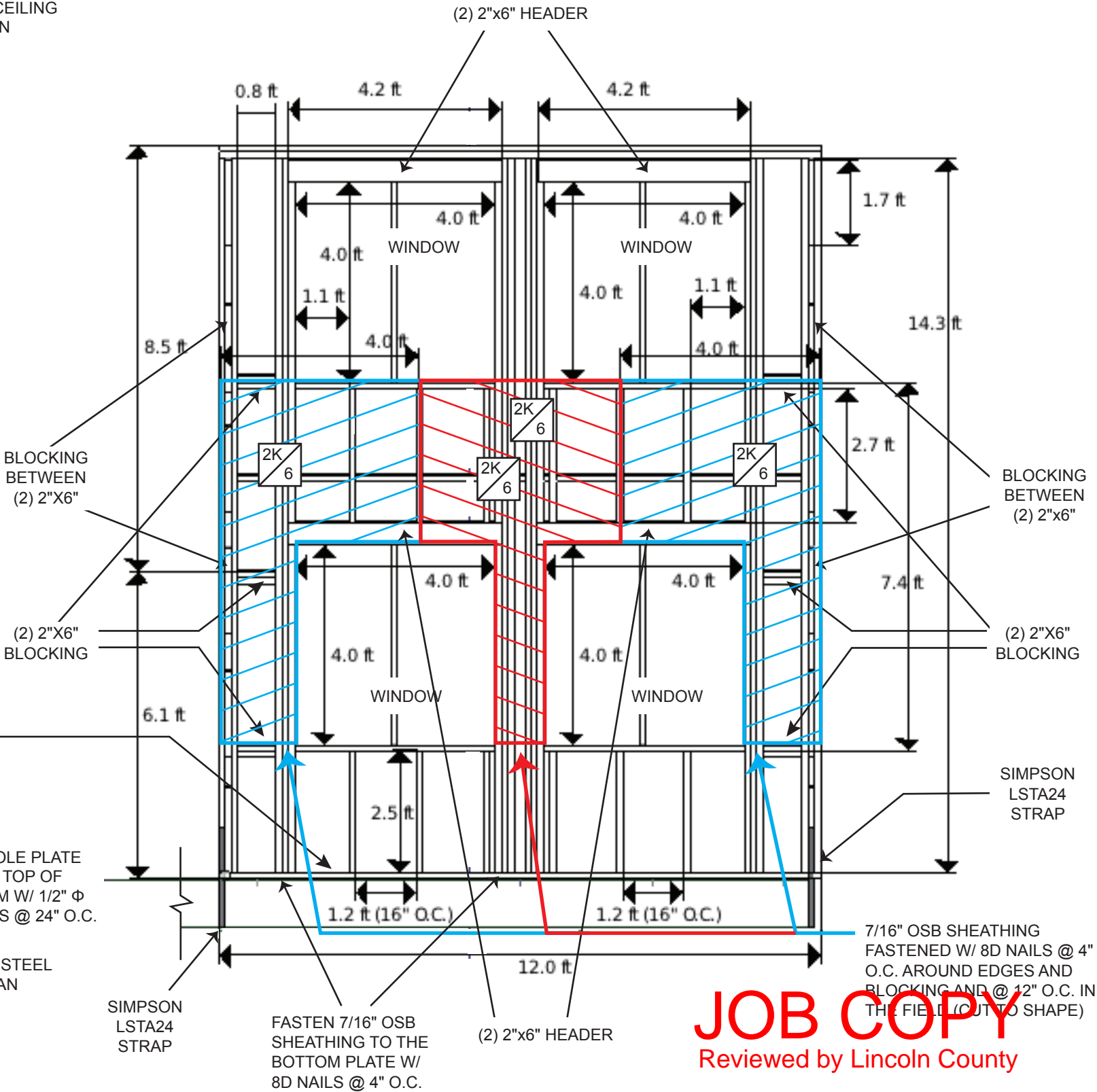
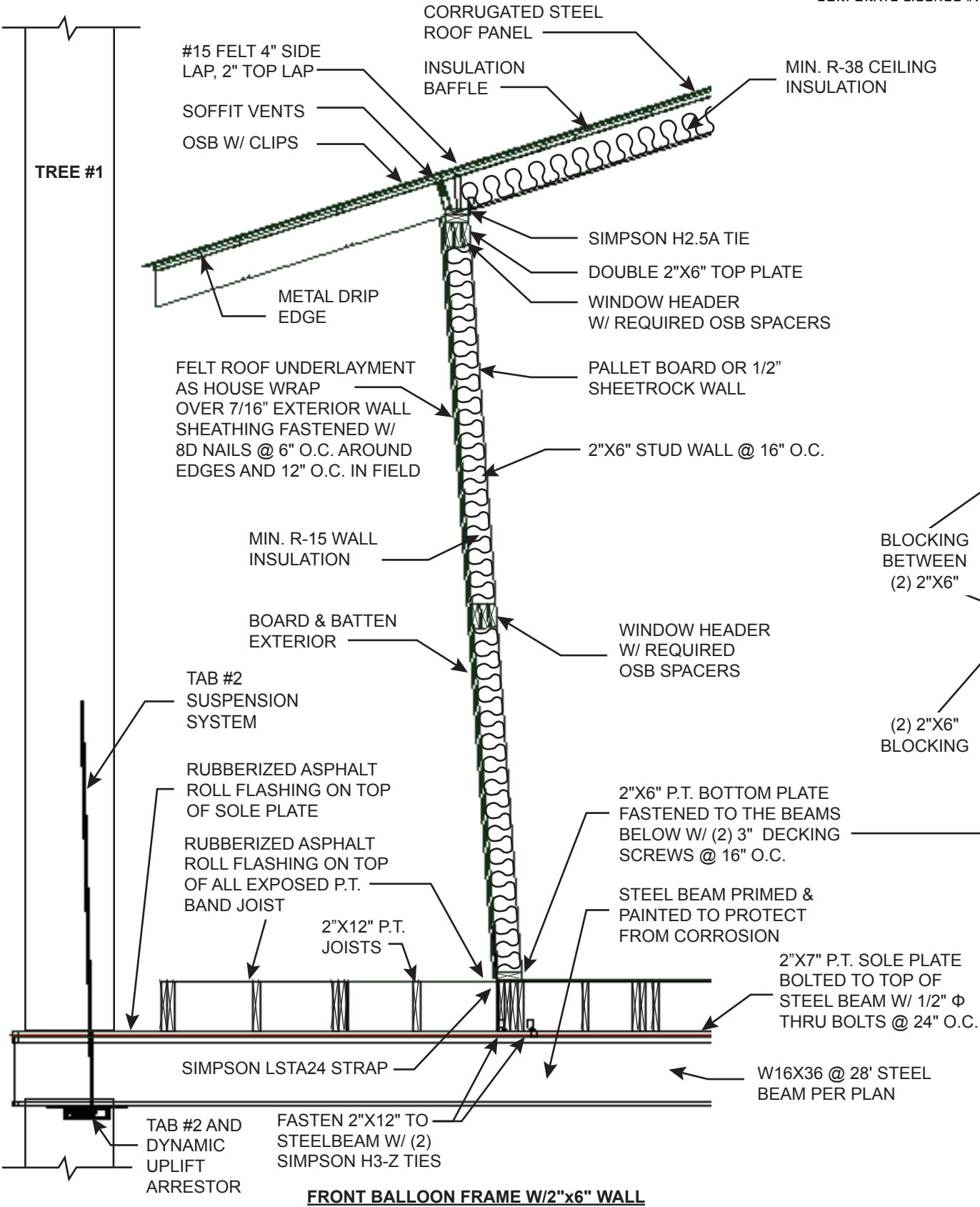
S.1.5

ROOF PLAN

- GENERAL NOTES**
- BALLOON FRAME WALL - 2"x6" @ 16" O.C. SPF #2
 - (1) 2"x6" (JACK) SPF #2 ON EACH SIDE OF THE WINDOWS
 - ALL LUMBER SPF #2 UNLESS OTHERWISE INDICATED
 - FASTEN CORNERS TO BEAM BELOW WITH SIMPSON LSTA24 STRAPS



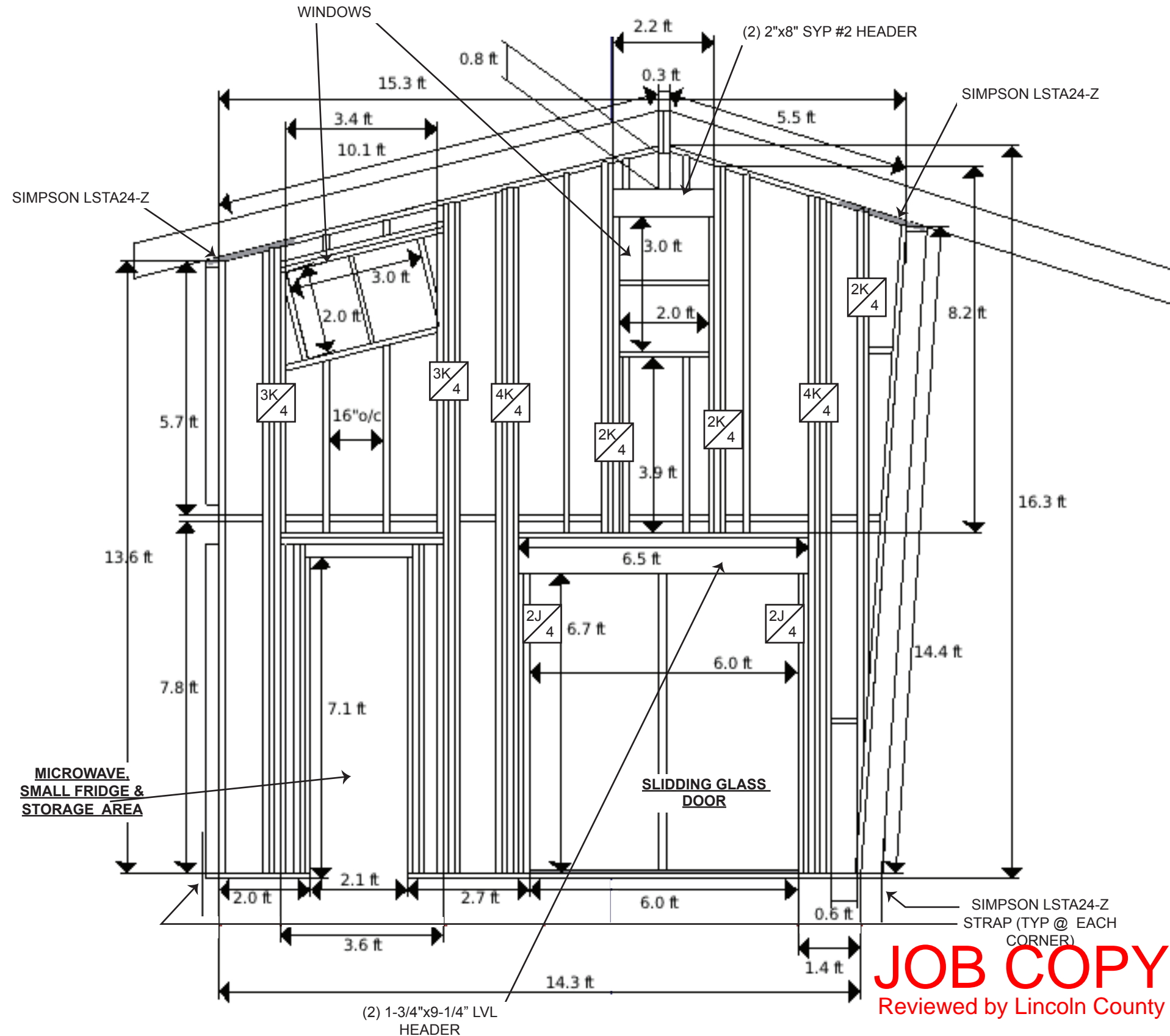
- LUMBER NOTES:**
- (2) 2"x6" (KINGS) SPF #2 ON EACH SIDE OF THE WINDOWS



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S.5.1	
FRONT WALL FRAMING DETAILS	

- STANDARD STUD FRAMING 2"X4" @ 16" O.C. UNLESS OTHERWISE INDICATED
- BALLOON FRAME (2) 2"X4" @ 16" O.C. WALL
- (1) 2"X4" (JACK) ON EACH SIDE OF SECOND STORY WINDOWS
- STRAPS AT TOP LEFT AND RIGHT SIDE OF WALL TO CONNECT TO FRONT & BACK WALL
- ALL LUMBER SPF #2 UNLESS OTHERWISE INDICATED
- FASTEN BOTTOM PLATE TO JOISTS WITH (2) 3" DECKING SCREWS @ 16" O.C.
- FASTEN CORNERS TO BEAM BELOW WITH SIMPSON LSTA24 STRAPS

- (4) 2"X4" (KINGS) ON EACH SIDE OF SLIDING DOOR
- (3) 2"X4" (KINGS)
- (2) 2"X4" (JACKS) ON EACH SIDE OF SLIDING DOOR
- (2) 2"X4" (KINGS)



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S.5.2

LEFT WALL FRAMING DETAILS

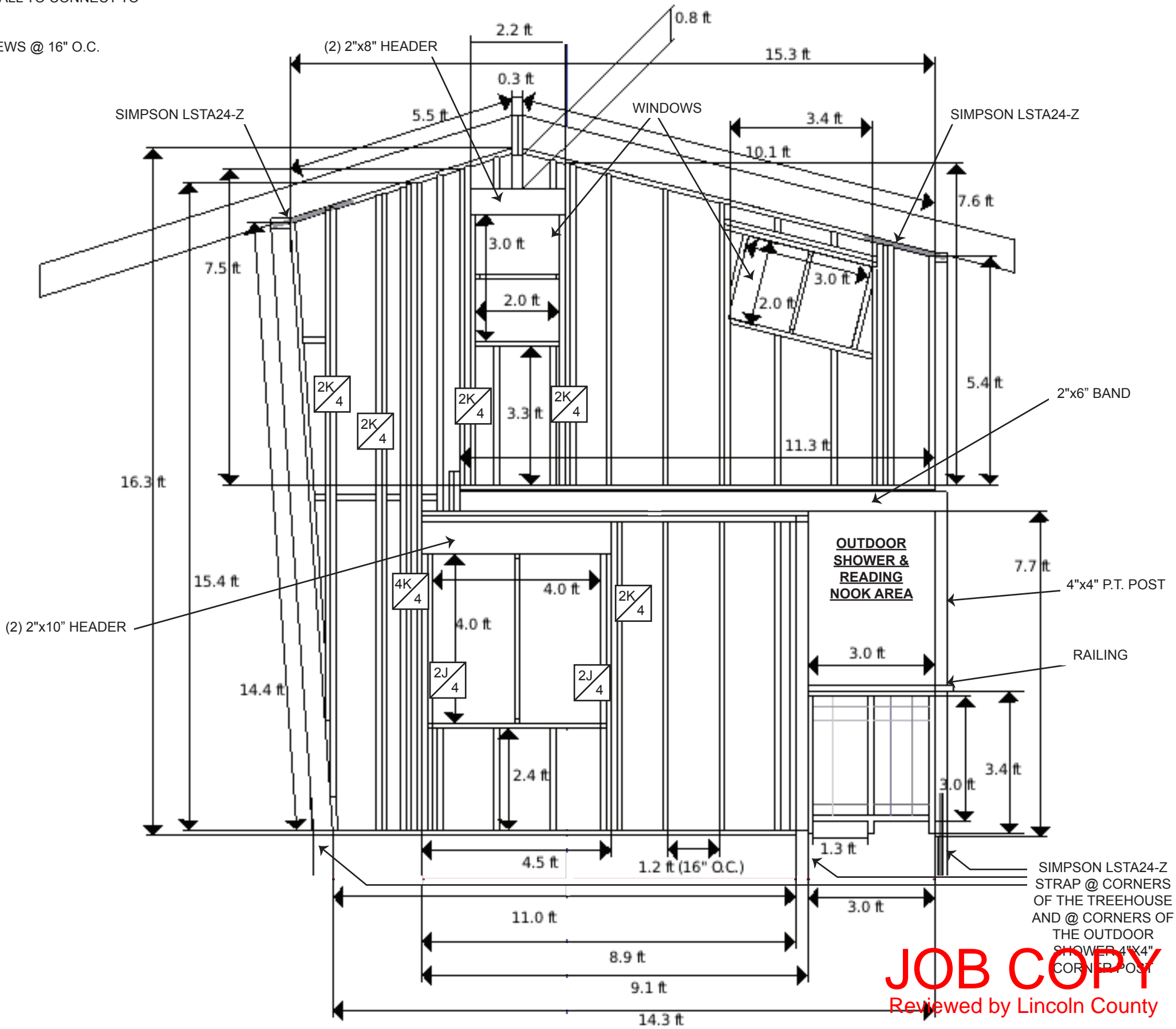
- GENERAL NOTES:**
- STANDARD STUD FRAMING 2"x4" @ 16" O.C. UNLESS OTHERWISE INDICATED
 - BALLOON FRAME (2) 2"x4" @ 16" O.C. WALL
 - (1) 2"x4" (JACK) ON EACH SIDE OF SECOND STORY WINDOWS
 - SIMPSON LSTA24 STRAPS AT TOP LEFT AND RIGHT SIDE OF WALL TO CONNECT TO FRONT & BACK WALL
 - ALL LUMBER SPF #2 UNLESS OTHERWISE INDICATED
 - FASTEN BOTTOM PLATE TO JOISTS WITH (2) 3" DECKING SCREWS @ 16" O.C.

- LUMBER NOTES:**
- 4K
4

• (4) 2"x4" (KINGS) ON EACH SIDE OF SLIDING DOOR
- 2J
4

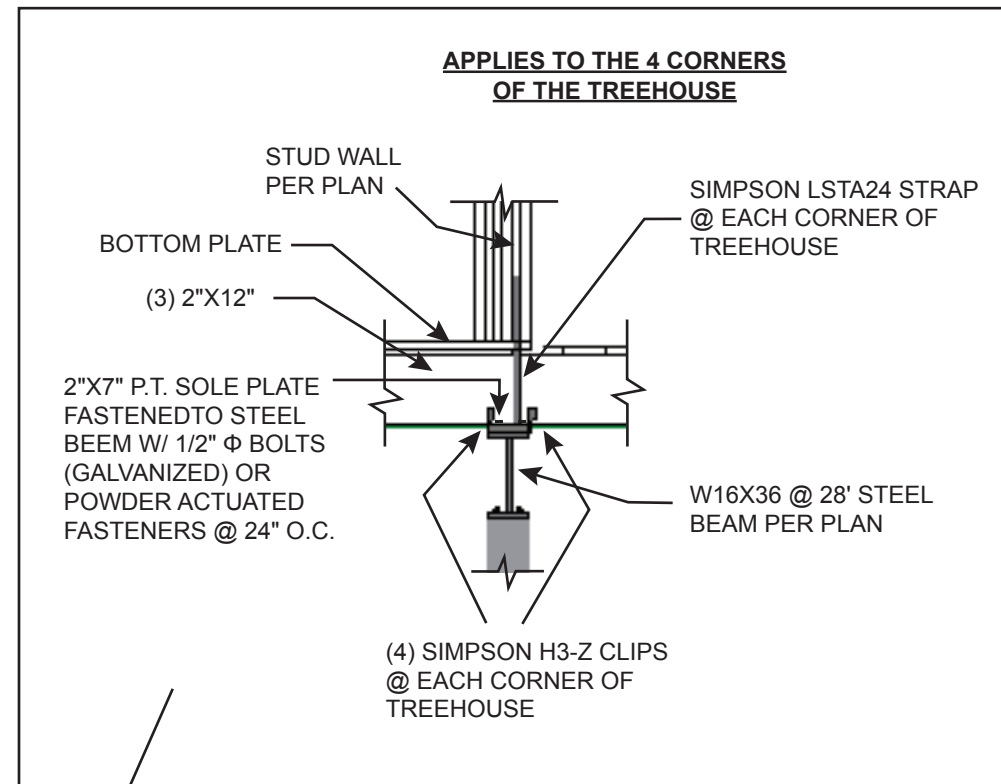
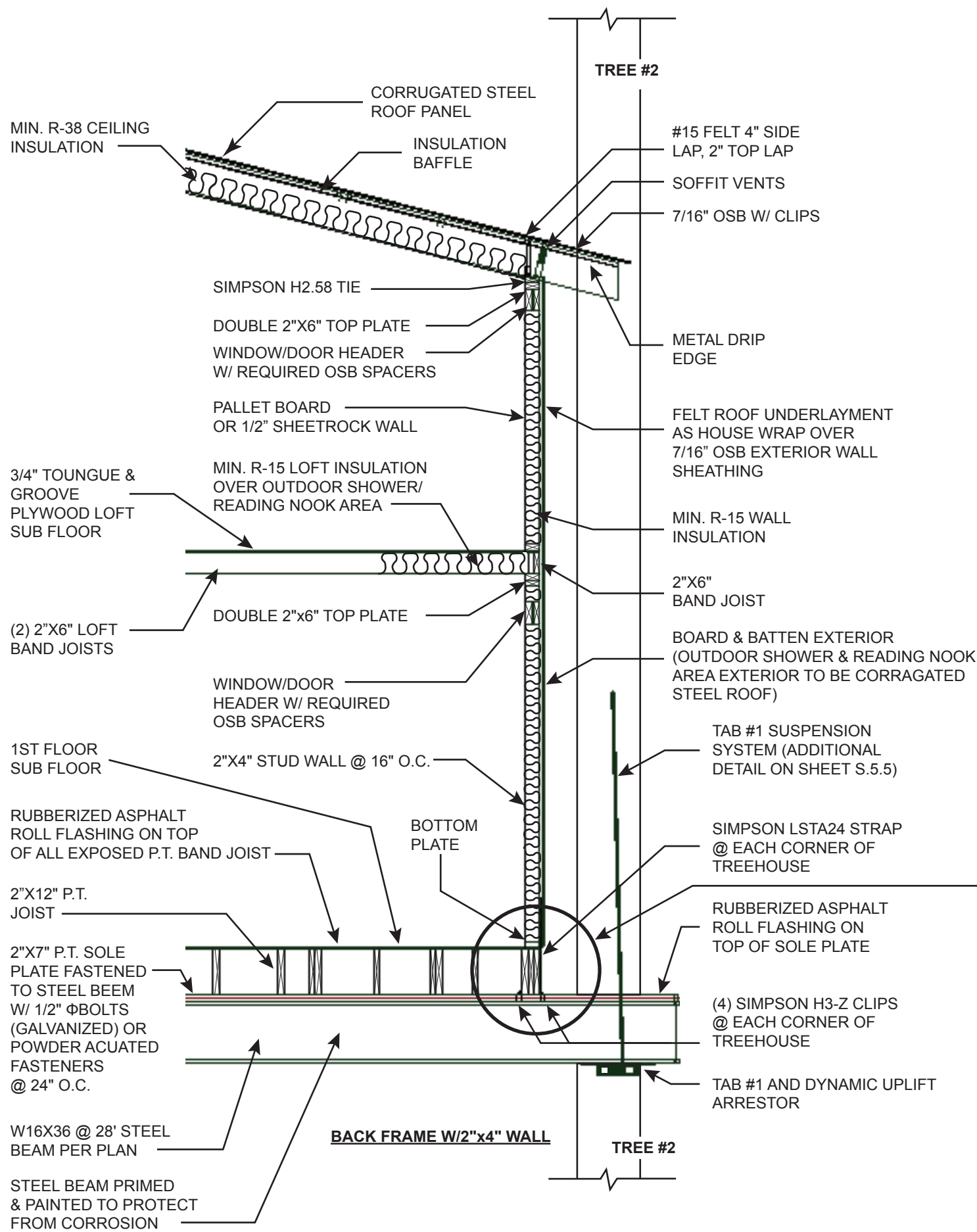
• (2) 2"x4" (JACKS) ON EACH SIDE OF SLIDING DOOR
- 2K
4

• (2) 2"x4" (KINGS)



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S.5.3	
RIGHT WALL FRAMING DETAILS	



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S.5.4	
DETAILS 1	

GENERAL TREE ATTACHMENT BOLT (TAB) #1 & #2 NOTES:

- HEAVY LIMB TREE ATTACHMENT BOLT (HL-TAB) #1 & HEAVY LIMB TREE ATTACHMENT BOLT (HL-TAB) #2 ARE SHOWN ON SHEET TBF.1
- CONSULTATION AND DIRECTION PROVIDED BY DARYL MCDONALD FROM NELSON TREEHOUSE AND SUPPLY (TREEHOUSE MASTERS) ON TABS AND ADDITIONAL HARDWARE NEEDED FOR PROPER TREE STRUCTURE. MARCEL PAPINEAU, P.E. WAS PRESENT DURING A PHONE CALL CONFERENCE WHEN DETERMINING HARDWARE NEEDED.

Daryl McDonald
Nelson Treehouse and Supply
(Treehouse Masters)
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Fall City, WA 98024
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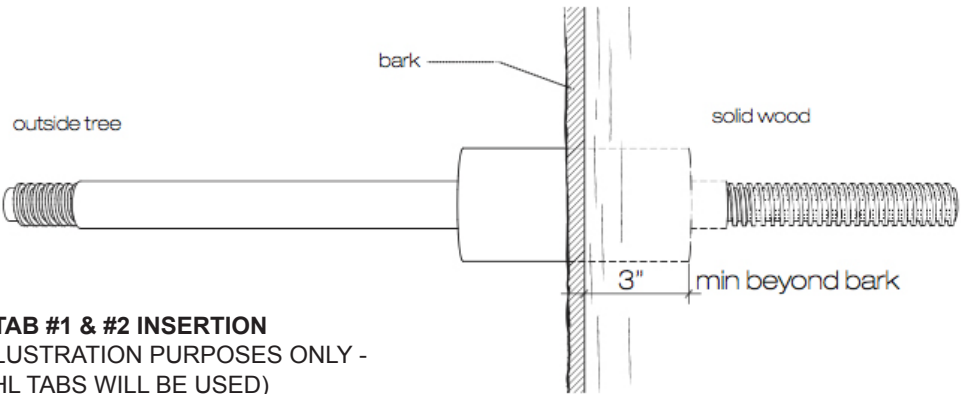
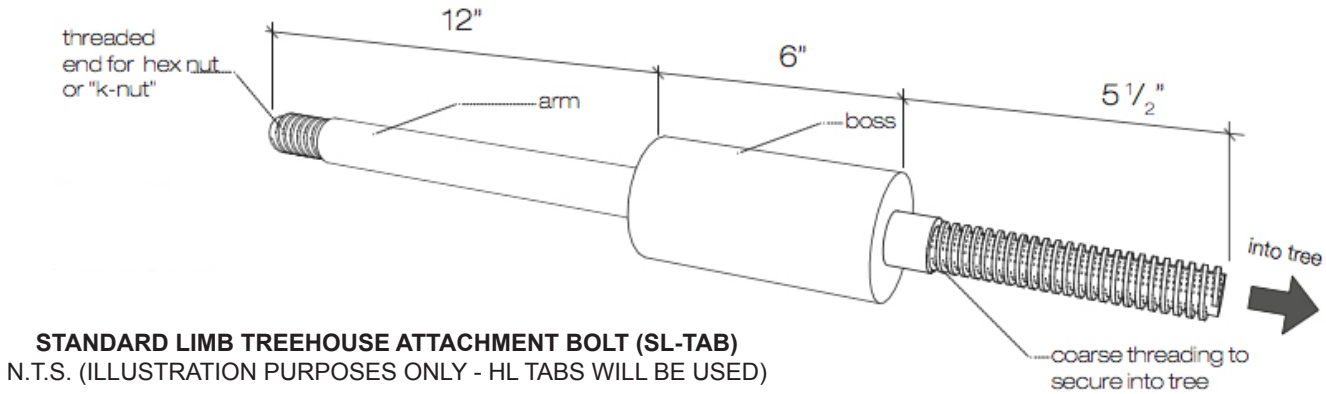
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HEAVY LIMB - TREE ATTACHMENT BOLT (TAB) #1 & #2 NOTES:

- HL (HEAVY LIMB) TAB SUPPORTS 20000LBS ALLOWABLE LOAD CAPACITY
- HL DYNAMIC UPLIFT ARRESTOR USED TO ATTACH THE BEAM TO THE TAB (LOWER RIGHT REFERENCE IMAGE)
- HL TAB SUSPENSION SYSTEM USED AS ADDITIONAL SUPPORT AT THE END OF THE TAB (LOWER RIGHT REFERENCE IMAGE)

HEAVY LIMB TREE ATTACHMENT BOLT (HL-TAB)
N.T.S. (ILLUSTRATION PURPOSES ONLY)



TREE ATTACHMENT BOLT, DYNAMIC UPLIFT ARRESTOR & SUSPENSION SYSTEM
N.T.S. (ILLUSTRATION PURPOSES ONLY - STEEL I BEAM TO BE USED INSTEAD OF WOOD I BEAM SHOWN)



* THE DYNAMIC UPLIFT ARRESTOR WILL EITHER BE WELDED TO THE BOTTOM OF THE STEEL BEAM OR FASTENED WITH (2) 3/4" Φ A325 GALVANIZED BOLTS.

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ROUGH OPENINGS FOR VINYL WINDOWS			
SINGLE WINDOW UNITS			
QUANTITY (1ST FLOOR)	CALL SIZE	ACTUAL SIZE	ROUGH OPENING SIZE
3	4-0 X 4-0	47 1/2" X 47 1/2"	48" X 48"
1	1-6 X 3-0	17.5" X 35.5"	18" X 36"
(LOFT)			
2	4-0 X 4-0	47 1/2" X 47 1/2"	48" X 48"
2	2-0 X 3-0	23.5" X 35.5"	24" X 36"
3	3-0 X 2-0	35.5" X 23.5"	36" X 24"

ROUGH OPENINGS FOR VINYL ENTRY DOOR			
SLIDING GLASS DOOR			
QUANTITY (1ST FLOOR)	CALL SIZE	ACTUAL SIZE	COMMON
1	6-0 X 6-8	70.75" X 79.5"	72" X 80"

ROUGH OPENINGS FOR FIBERGLASS ENTRY DOOR			
INSWING UNIT			
QUANTITY (1ST FLOOR)	CALL SIZE	ACTUAL SIZE	ROUGH OPENING SIZE
1	2-0 X 6-8	24" X 80"	26" X 82"

ROUGH OPENINGS FOR PLEXIGLASS WINDOWS			
SINGLE WINDOW UNITS			
QUANTITY (1ST FLOOR)	CALL SIZE	ACTUAL SIZE	ROUGH OPENING SIZE
1	1-4 X 3-0	15.5" X 35.5"	16" X 36"
(LOFT)			
1	1-4 X 4-1	15.5" X 49.5"	16" X 50"



STEEL I BEAMS													
									STATIC PARAMETERS				BOTH BEAMS PRIMED & PAINTED TO PROTECT FROM CORROSION
									MOMENT OF INERTIA		ELASTIC SECTION MODULUS		
BEAM #	CUT LENGTH	DESIGNATION IMPERIAL (IN X LB/FT)	DEPTH H (IN)	WIDTH W (IN)	WEB THICKNESS T _W (IN)	FLANGE THICKNESS T _F (IN)	SECTIONAL AREA (IN²)	WEIGHT (LB _F /FT)	I _x (IN⁴)	I _y (IN⁴)	S _x (IN³)	S _y (IN³)	
1	28'	W 16 X 36	15.86	6.985	0.295	0.430	10.6	36	448	24.5	56.5	7	
2	23'												

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REVISIONS

BY

2 - 27 - 19

TT

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Date: 11 - 8 - 18

Scale: 3/8" = 1'- 0"

Paper: 11"x17"

Print @ 98%

The: Treehouse

Sheet Number:

S.6

SCHEDULE
DETAILS