

GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP - AS PER PLAN
PA - POST ABOVE
OTB - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports. Blocking is required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.30.6

Provide 1-1/8" blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Do not scale - refer to architectural plans for dimensions.

Prod	Length	Product	Plus	Nat City
B10	13.00-00	11 7/8" N120	1	1
B11	12.00-00	1 3/4" X 11 7/8" 1.55E TimberShore® LSL	1	1
B12	12.00-00	1 3/4" X 11 7/8" 1.55E TimberShore® LSL	3	4
B13	19.00-00	1 3/4" X 11 7/8" VERSA LAM® 2.0 3100 SP	4	4
B14	19.00-00	11 7/8" N140x	2	2
B15	4.00-00	1 3/4" X 11 7/8" 1.55E TimberShore® LSL	2	2
B16	12.00-00	11 7/8" N120	1	3
B17	12.00-00	11 7/8" N120	1	1
B18	4.00-00	11 7/8" N120	1	1
B19	3.00-00	11 7/8" N120	1	1
B20	20.00-00	11 7/8" N140x	1	20
B21	20.00-00	11 7/8" N140x	2	2
B22	20.00-00	11 7/8" N140x	2	10
B23	18.00-00	11 7/8" N140x	1	7
B24	18.00-00	11 7/8" N140x	2	2
B25	22.00-00	11 7/8" N140x	2	23
B26	22.00-00	11 7/8" N140x	2	4
B27	100.00-00	11 7/8" N120	1	1

Prod	Qty	Manuf	Product
H1	1	HQUS55070	
H2	1	HQUS22010	
H3	1	HQUS71110	
H4	7	UP259	
H5	59	LT351188	
H6	2		

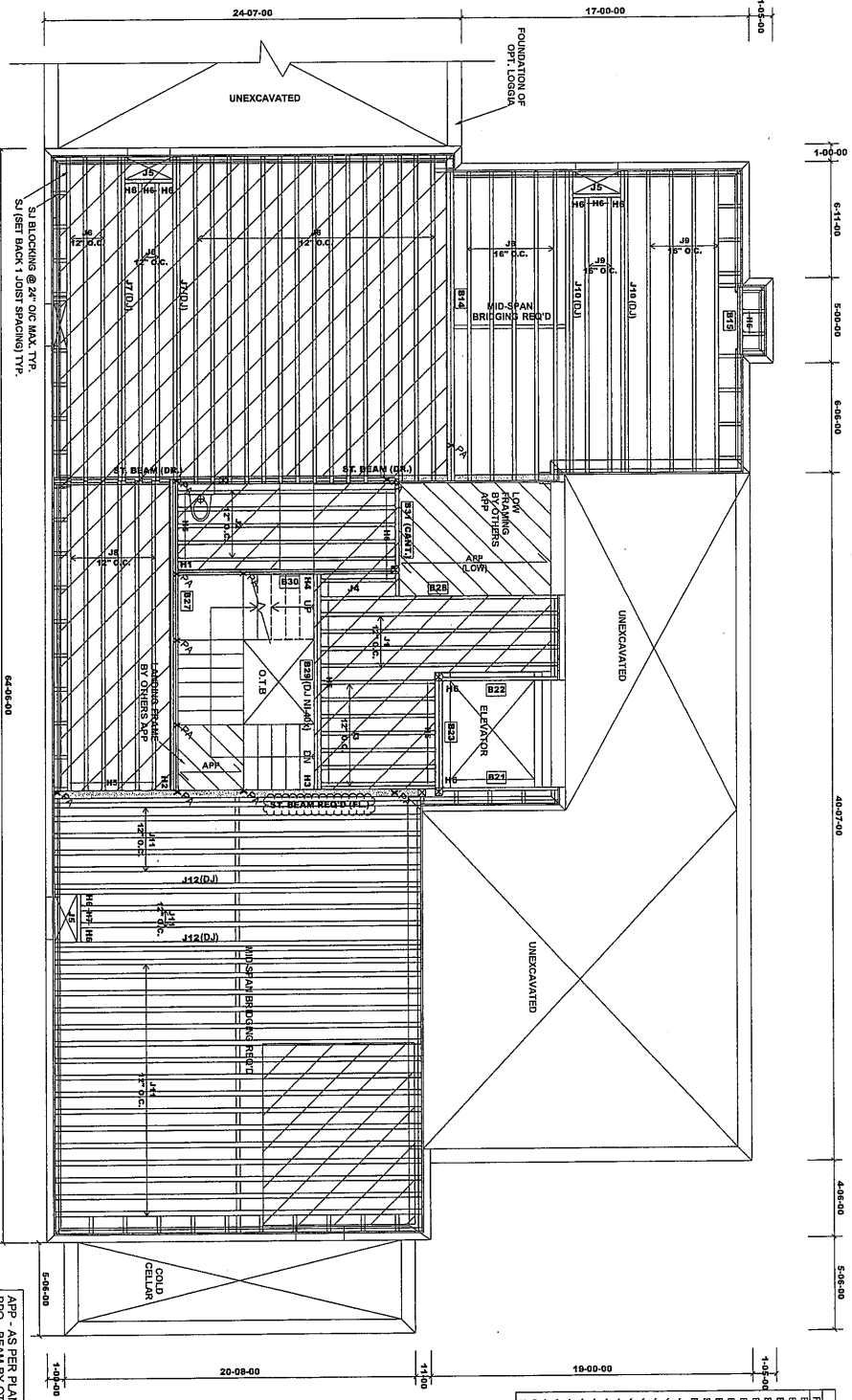
JT/PL: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 1 of 24

Alpha Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A
W/ SUNKEN MUDROOM
W/ ELEVATOR

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 25 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

AS PER PLAN
PA - POST ABOVE
OTB - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports. Sunk blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide L-List blocking between cantilevered joists (along bearing) and imboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

Field	Qty	Material	Product
H1	1	H01810	
H2	1	H01810	
H3	1	H01810	
H4	1	H01810	
H5	6	U259	
H6	45	L251188	
H7	2		

Field	Length	Product	Phis	Nat Qty
B14	18-05-00	11 7/8" N-40x	2	2
B15	4-00-00	1 3/4" x 11 7/8" 1.55E TimberStrang® LSL	1	1
B16	18-05-00	11 7/8" N-40x	2	2
B22	7-00-00	11 7/8" N-40x	1	1
B23	8-00-00	11 7/8" N-40x	2	2
B27	19-00-00	1 3/4" x 11 7/8" 1.55E TimberStrang® LSL	3	3
B28	14-00-00	11 7/8" N-40x	1	1
B29	14-00-00	11 7/8" N-40x	2	2
B30	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrang® LSL	2	2
B31 (CANT)	7-00-00	11 7/8" N-40x	1	1
J1	14-00-00	11 7/8" N-40x	1	1
J2	13-00-00	11 7/8" N-40x	1	1
J3	13-00-00	11 7/8" N-40x	1	1
J4	5-00-00	11 7/8" N-40x	1	1
J5	3-00-00	11 7/8" N-40x	1	1
J6	20-00-00	11 7/8" N-40x	2	20
J7	20-00-00	11 7/8" N-40x	2	2
J8	18-00-00	11 7/8" N-40x	1	1
J9	18-00-00	11 7/8" N-40x	1	6
J10	18-00-00	11 7/8" N-40x	2	4
J11	22-00-00	11 7/8" N-40x	1	23
J12	22-00-00	11 7/8" N-40x	2	4
J13	22-00-00	11 7/8" N-40x	2	4
B1	81-00-00	11 7/8" N-40x	1	1

JT/PL: 45147/116409
LI: 343073*

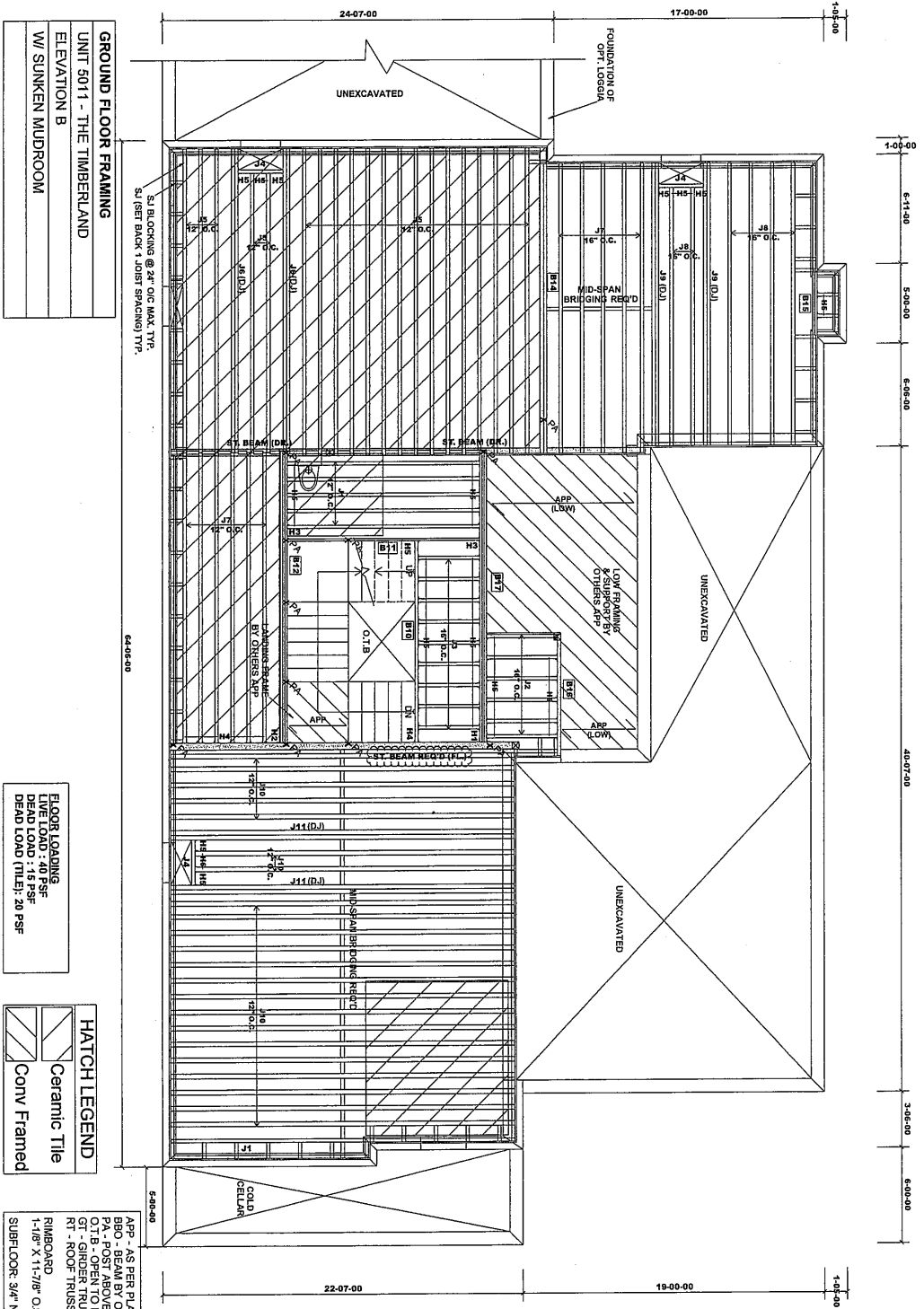
Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 4 of 24

Alpa Roof Trusses Inc.
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION B
W/ SUNKEN MUDROOM

FLOOR LOADING
LIVE LOAD - 40 PSF
DEAD LOAD - 15 PSF
DEAD LOAD (TILE): 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

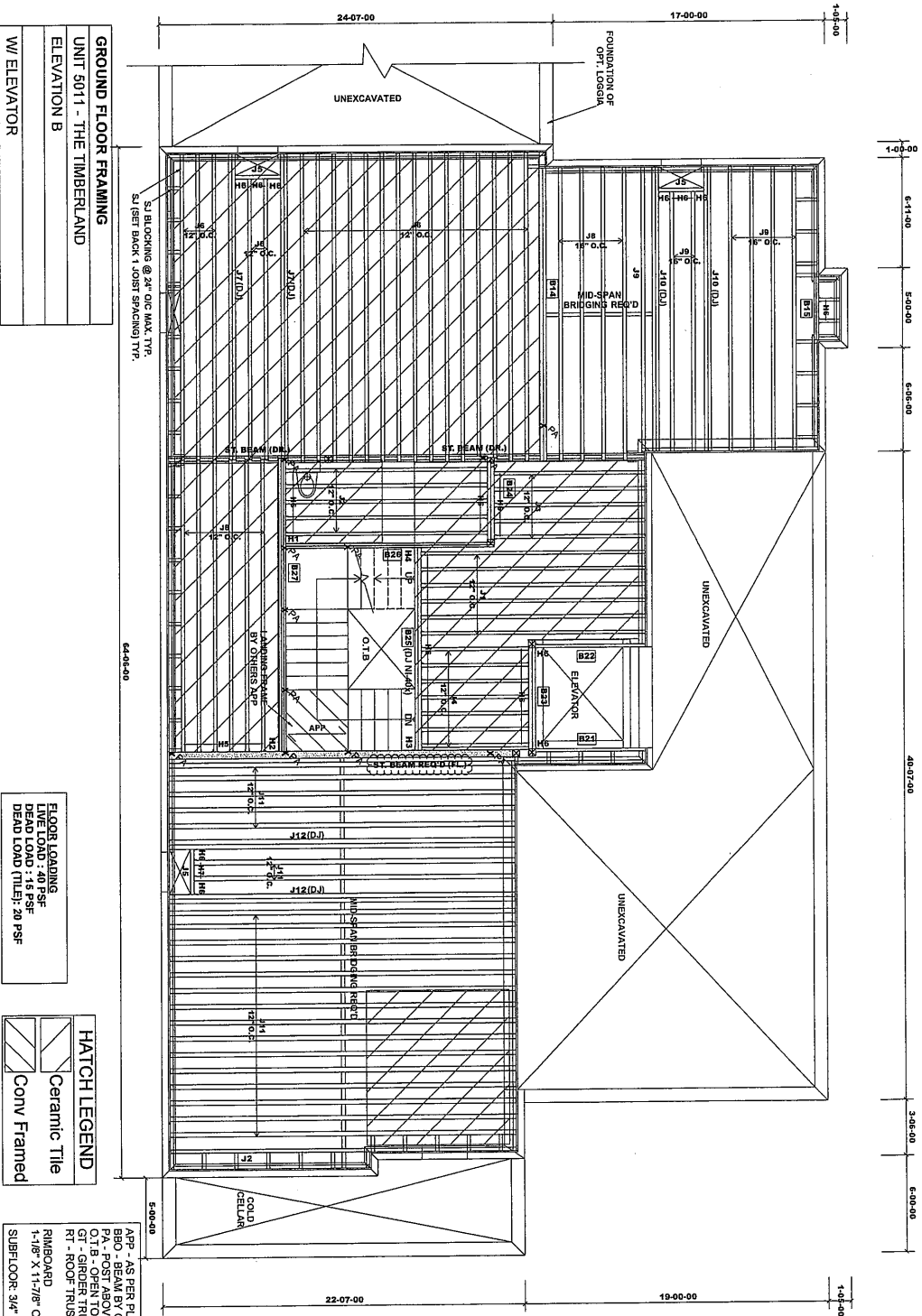
APPROX. AS PER PLAN
BRO - BEAM BY OTHERS
PA - POST ABOVE
O.T.B - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/2" X 11-7/8" O.S.B
SUBFLOOR: 3/4" VAILED & GULFED

Blocking panels are required over all interior supports. Blocking panels are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide joist blocking between cantilevered joists (along bearing) and inboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

Product	Qty	Manuf.	Product
H1	1	HUS18710	
H2	1	HUS18710	
H3	2	HUS18710	
H4	7	LF259	
H5	52	L7251188	
H6	2	L7251188	

Product	Length	Product	Qty	Manuf.	Product
B10	13-00-00	11 7/8" N-20	1		
B11	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B12	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B13	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B14	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B15	4-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B16	4-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B17	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B18	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B19	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B20	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B21	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B22	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B23	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B24	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B25	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B26	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B27	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B28	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B29	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B30	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B31	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B32	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B33	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B34	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B35	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B36	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B37	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B38	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B39	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B40	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B41	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B42	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B43	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B44	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B45	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B46	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B47	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B48	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B49	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B50	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B51	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B52	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B53	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B54	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B55	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B56	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B57	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B58	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B59	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B60	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B61	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B62	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B63	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B64	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B65	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B66	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B67	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B68	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B69	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B70	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B71	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B72	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B73	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B74	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B75	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B76	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B77	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B78	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B79	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B80	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B81	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B82	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B83	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B84	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B85	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B86	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B87	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B88	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B89	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B90	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B91	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B92	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B93	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B94	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B95	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B96	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B97	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B98	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B99	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		
B100	13-00-00	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1		

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 LI: 343073*
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 Project: Pine Valley Ph2
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 Sheet: 6 of 24
 Alpa Roof Trusses Inc.
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



Product	Length	Product	Quantity	Unit	Qty
B14	19-00-00	11 7/8" N4-DK	2	2	2
B15	19-00-00	11 7/8" N4-DK	2	2	2
B16	19-00-00	11 7/8" N4-DK	2	2	2
B17	19-00-00	11 7/8" N4-DK	2	2	2
B18	19-00-00	11 7/8" N4-DK	2	2	2
B19	19-00-00	11 7/8" N4-DK	2	2	2
B20	19-00-00	11 7/8" N4-DK	2	2	2
B21	19-00-00	11 7/8" N4-DK	2	2	2
B22	19-00-00	11 7/8" N4-DK	2	2	2
B23	19-00-00	11 7/8" N4-DK	2	2	2
B24	19-00-00	11 7/8" N4-DK	2	2	2
B25	19-00-00	11 7/8" N4-DK	2	2	2
B26	19-00-00	11 7/8" N4-DK	2	2	2
B27	19-00-00	11 7/8" N4-DK	2	2	2
B28	19-00-00	11 7/8" N4-DK	2	2	2
B29	19-00-00	11 7/8" N4-DK	2	2	2
B30	19-00-00	11 7/8" N4-DK	2	2	2
B31	19-00-00	11 7/8" N4-DK	2	2	2
B32	19-00-00	11 7/8" N4-DK	2	2	2
B33	19-00-00	11 7/8" N4-DK	2	2	2
B34	19-00-00	11 7/8" N4-DK	2	2	2
B35	19-00-00	11 7/8" N4-DK	2	2	2
B36	19-00-00	11 7/8" N4-DK	2	2	2
B37	19-00-00	11 7/8" N4-DK	2	2	2
B38	19-00-00	11 7/8" N4-DK	2	2	2
B39	19-00-00	11 7/8" N4-DK	2	2	2
B40	19-00-00	11 7/8" N4-DK	2	2	2
B41	19-00-00	11 7/8" N4-DK	2	2	2
B42	19-00-00	11 7/8" N4-DK	2	2	2
B43	19-00-00	11 7/8" N4-DK	2	2	2
B44	19-00-00	11 7/8" N4-DK	2	2	2
B45	19-00-00	11 7/8" N4-DK	2	2	2
B46	19-00-00	11 7/8" N4-DK	2	2	2
B47	19-00-00	11 7/8" N4-DK	2	2	2
B48	19-00-00	11 7/8" N4-DK	2	2	2
B49	19-00-00	11 7/8" N4-DK	2	2	2
B50	19-00-00	11 7/8" N4-DK	2	2	2
B51	19-00-00	11 7/8" N4-DK	2	2	2
B52	19-00-00	11 7/8" N4-DK	2	2	2
B53	19-00-00	11 7/8" N4-DK	2	2	2
B54	19-00-00	11 7/8" N4-DK	2	2	2
B55	19-00-00	11 7/8" N4-DK	2	2	2
B56	19-00-00	11 7/8" N4-DK	2	2	2
B57	19-00-00	11 7/8" N4-DK	2	2	2
B58	19-00-00	11 7/8" N4-DK	2	2	2
B59	19-00-00	11 7/8" N4-DK	2	2	2
B60	19-00-00	11 7/8" N4-DK	2	2	2
B61	19-00-00	11 7/8" N4-DK	2	2	2
B62	19-00-00	11 7/8" N4-DK	2	2	2
B63	19-00-00	11 7/8" N4-DK	2	2	2
B64	19-00-00	11 7/8" N4-DK	2	2	2
B65	19-00-00	11 7/8" N4-DK	2	2	2
B66	19-00-00	11 7/8" N4-DK	2	2	2
B67	19-00-00	11 7/8" N4-DK	2	2	2
B68	19-00-00	11 7/8" N4-DK	2	2	2
B69	19-00-00	11 7/8" N4-DK	2	2	2
B70	19-00-00	11 7/8" N4-DK	2	2	2
B71	19-00-00	11 7/8" N4-DK	2	2	2
B72	19-00-00	11 7/8" N4-DK	2	2	2
B73	19-00-00	11 7/8" N4-DK	2	2	2
B74	19-00-00	11 7/8" N4-DK	2	2	2
B75	19-00-00	11 7/8" N4-DK	2	2	2
B76	19-00-00	11 7/8" N4-DK	2	2	2
B77	19-00-00	11 7/8" N4-DK	2	2	2
B78	19-00-00	11 7/8" N4-DK	2	2	2
B79	19-00-00	11 7/8" N4-DK	2	2	2
B80	19-00-00	11 7/8" N4-DK	2	2	2
B81	19-00-00	11 7/8" N4-DK	2	2	2
B82	19-00-00	11 7/8" N4-DK	2	2	2
B83	19-00-00	11 7/8" N4-DK	2	2	2
B84	19-00-00	11 7/8" N4-DK	2	2	2
B85	19-00-00	11 7/8" N4-DK	2	2	2
B86	19-00-00	11 7/8" N4-DK	2	2	2
B87	19-00-00	11 7/8" N4-DK	2	2	2
B88	19-00-00	11 7/8" N4-DK	2	2	2
B89	19-00-00	11 7/8" N4-DK	2	2	2
B90	19-00-00	11 7/8" N4-DK	2	2	2
B91	19-00-00	11 7/8" N4-DK	2	2	2
B92	19-00-00	11 7/8" N4-DK	2	2	2
B93	19-00-00	11 7/8" N4-DK	2	2	2
B94	19-00-00	11 7/8" N4-DK	2	2	2
B95	19-00-00	11 7/8" N4-DK	2	2	2
B96	19-00-00	11 7/8" N4-DK	2	2	2
B97	19-00-00	11 7/8" N4-DK	2	2	2
B98	19-00-00	11 7/8" N4-DK	2	2	2
B99	19-00-00	11 7/8" N4-DK	2	2	2
B100	19-00-00	11 7/8" N4-DK	2	2	2

Field	Qty	Manuf	Product
H1	1	HQUS-610	HQUS-610
H2	1	HQUS-5010	HQUS-5010
H3	1	HQUS-5012	HQUS-5012
H4	1	HQUS-5014	HQUS-5014
H5	6	LP269	LP269
H6	49	LP269	LP269
H7	2	LP269	LP269

Blocking panels are required over all interior support blocks are required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.30.6

Provide L-joist blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Do not scale - refer to architectural plans for dimensions.

JT/PL: 45147/116409
 LI: 343073*

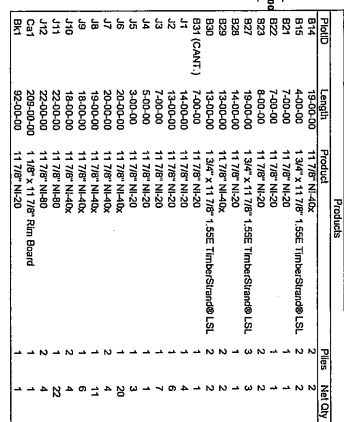
Builder: Gold Park Homes
 Project: Pine Valley Ph2

Location: Vaughan, ON
 Date: Apr. 04, 2022

Designer: TL
 Sheet: 7 of 24

Alpa Roof Trusses Inc.
 Stouffville, Ontario

Salesperson: Derek F.
 Home Lumber Inc.



Connector Summary		
PtID	Qty	Manuf Product
H1	1	HGUS410
H2	1	HGUS5,50/70
H3	1	HU310-2
H4	1	HU312-2
H5	6	LF259
H6	45	LT25188
H7	2	LT35188

APP - AS PER PLAN
BBO - BEAM BY OTHERS
PA - POST ABOVE
O.T.B. - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS

RIMBOARD
1-1/8" X 11-7/8" O.S.B

SUBFLOOR: 3/4" NAILED & GLUED*

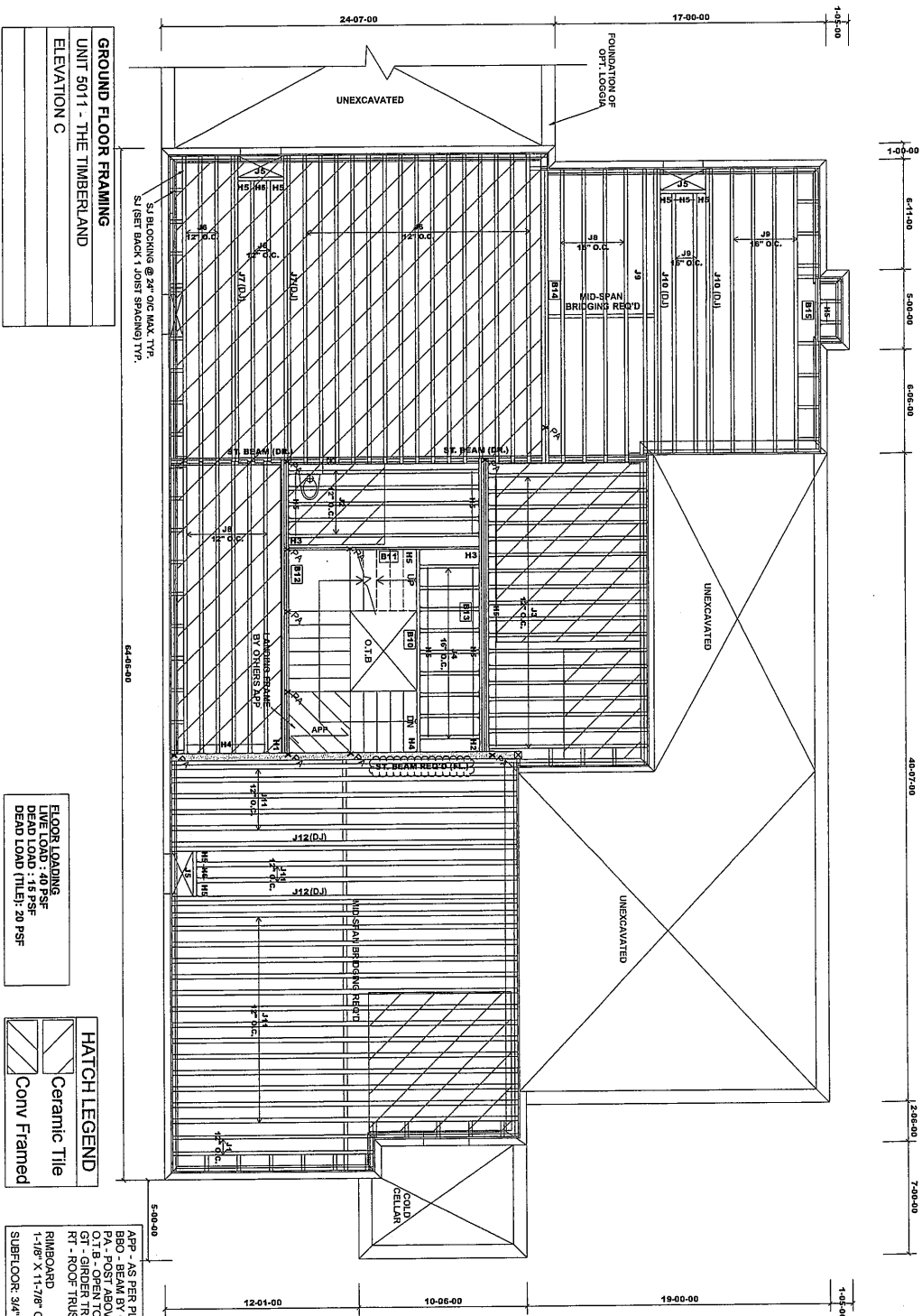
Blocking panels are required over all interior supports.
Squash blocks are required under concentrate loads.

Ceramic Tile Application as per O.B.C. 9.30.6

Provide J-joist blocking between cantilevered joists (along bearing) and imboord closure at ends.

Do not scale - refer to architectural plans for dimensions.

Designer: TL Alpa Roof Trusses Inc. Salesperson: Derek F.
Sheet: 8 of 24 Stouffville, Ontario Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION C

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

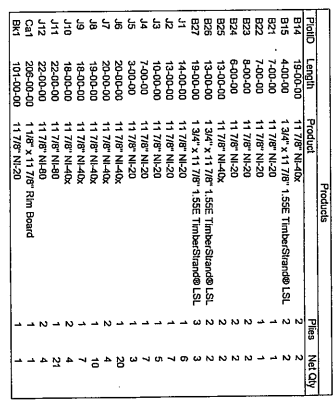
APP - AS PER PLAN
BRO - BEAM BY OTHERS
RT - ROOF TRUSS
OT - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" OSB
SUBFLOOR: 3/4" NAILED & GUEP

Blocking panels are required over all interior supports. Squash blocks are required under concentrated loads. Ceramic Tile Application as per O.B.C. 9.30.6 Provide L-List blocking between cantilevered joists (along bearing) and rimboard closure at ends. Do not scale - refer to architectural plans for dimensions.

Prod	Length	Product	Plate	Net Qty
B10	13-05-00	11/76" N-20	1	1
B11	13-05-00	1 3/4" x 11/76" 1.55E TimberStrang® LSL	1	1
B12	13-05-00	1 3/4" x 11/76" 1.55E TimberStrang® LSL	4	4
B13	13-05-00	1 3/4" x 11/76" 1.55E TimberStrang® LSL	4	4
B14	13-05-00	1 3/4" x 11/76" 1.55E TimberStrang® LSL	2	2
B15	4-00-00	1 3/4" x 11/76" 1.55E TimberStrang® LSL	2	2
J1	13-05-00	11/76" N-20	1	2
J2	13-05-00	11/76" N-20	1	2
J3	13-05-00	11/76" N-20	1	2
J4	4-00-00	11/76" N-20	1	1
J5	4-00-00	11/76" N-20	1	1
J6	20-00-00	11/76" N-40x	1	20
J7	20-00-00	11/76" N-40x	1	20
J8	18-00-00	11/76" N-40x	1	10
J9	18-00-00	11/76" N-40x	1	7
J10	18-00-00	11/76" N-40x	2	4
J11	22-00-00	11/76" N-40	1	21
J12	22-00-00	11/76" N-40	1	1
C1	213-00-00	1 1/8" x 11/76" Rim Board	1	1
B1	102-00-00	11/76" N-20	1	1

Prod	Qty	Material	Product
H1	1	180SS-3810	180SS-3810
H2	1	180SS-3810	180SS-3810
H3	2	180SS-3810	180SS-3810
H4	7	180SS-3810	180SS-3810
H5	59	180SS-3810	180SS-3810
H6	2	180SS-3810	180SS-3810

JT/PL: 45147/116409
 LI: 343073*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 04, 2022
 Designer: TL
 Sheet: 9 of 24
 Alpa Roof Trusses Inc.
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



Connector Summary		
PtCtID	Qty	Product
H1	2	HGSU5.50/10
H2	1	HU312-2
H3	1	L4259
H4	6	L7251188
H5	49	L7351186
H6	2	

Blocking panels are required over all interior supports. Squash blocks are required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.30.6

Provide J-joist blocking between cantilevered joists (along bearings) and rimboard closure at ends.

Do not scale - refer to architectural plans for dimensions.

APP - AS PER PLAN
BBO - BEAM BY OTHERS
PA - POST ABOVE
O.T.B - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS

RIMBOARD
1-1/8" X 11-7/8" O.S.B

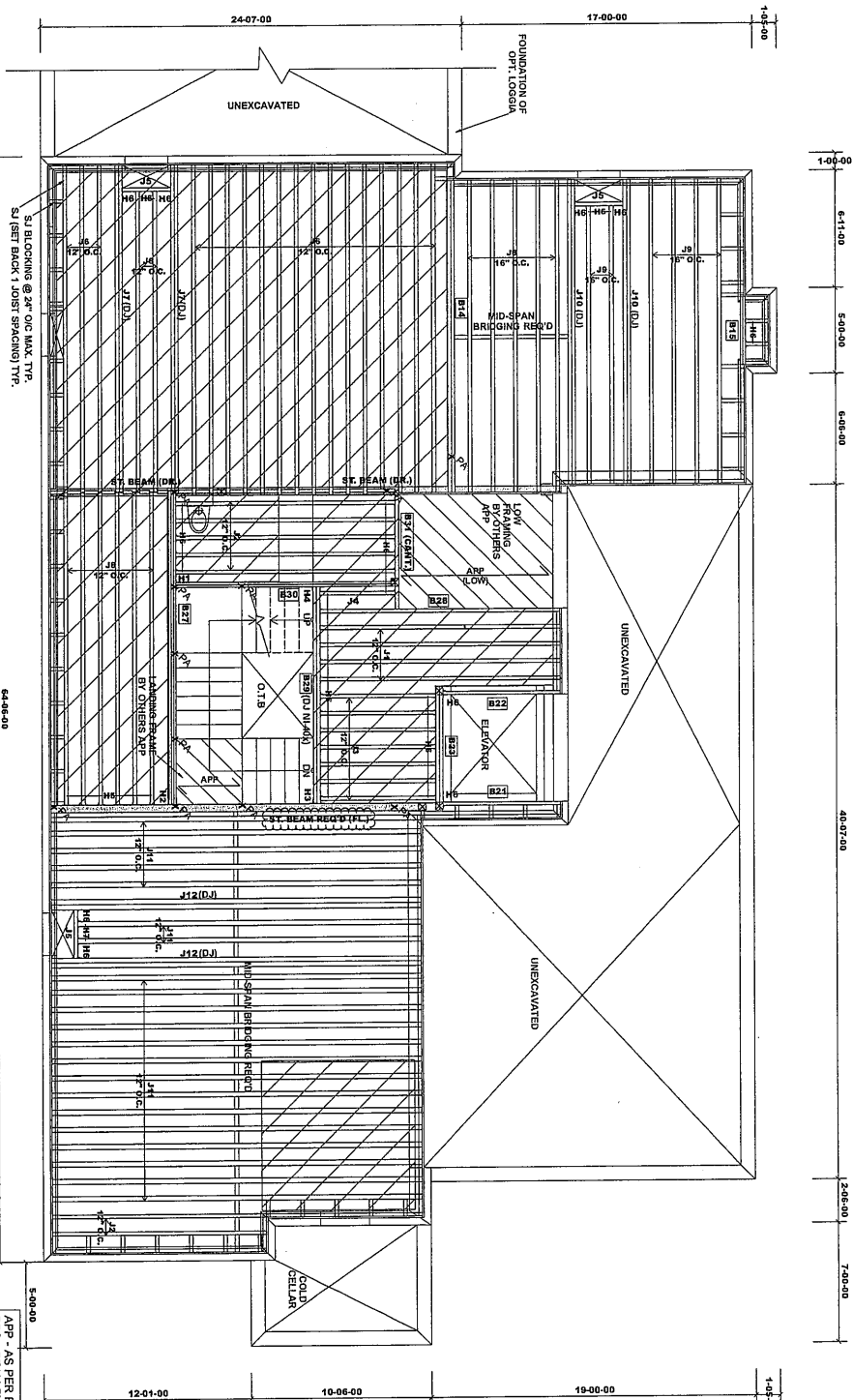
SUBFLOOR: 3/4" NAILED & GLUED*

HATCH LEGEND	
	Ceramic Tile
	Conv Framed

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE): 20 PSF

GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION C
W/ ELEVATOR

JT/PL: 45147/116409
 LI: 343073*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 04, 2022
 Designer: TL
 Alpha Roof Trusses Inc.
 Sheet: 11 of 24
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION C
W/ SUNKEN MUDROOM
W/ ELEVATOR

FLOOR LOADING
 LIVE LOAD : 40 PSF
 DEAD LOAD : 15 PSF
 DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP - AS PER PLAN
 BRD - BEAM BY OTHERS
 O.T.B. - OPEN TO BELOW
 GR - GIRDER TRUSS
 RT - ROOF TRUSS
 RIMBOARD
 1-1/8" X 11-7/8" O.S.B
 SUBFLOOR 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports.
 Spanish blocks are required under concentrated loads.
 Ceramic Tile Application as per O.B.C. 9.30.6
 Provide 1-1/8" blocking between cantilevered joists (along bearing) and masonry closure at ends.
 Do not scale - refer to architectural plans for dimensions.

Field	Qty	Material	Product
H1	1	HQUS470	HQUS470
H2	1	HQUS5070	HQUS5070
H3	1	HQUS5072	HQUS5072
H4	1	HQUS5074	HQUS5074
H5	6	LF269	LF269
H6	45	LF251188	LF251188
H7	2	LF251188	LF251188

Field	Length	Product	Units	Qty
B14	19-00-00	11/7/8" N4-DX	2	2
B15	4-00-00	1 3/4" X 11/7/8" 1.5SE TimberStrand® SL	2	2
B16	7-00-00	11/7/8" N4-DX	1	1
B17	11-00-00	11/7/8" N4-DX	1	1
B18	6-00-00	11/7/8" N4-DX	2	2
B19	19-00-00	1 3/4" X 11/7/8" 1.5SE TimberStrand® SL	3	3
B20	14-00-00	11/7/8" N4-DX	1	1
B21	13-00-00	11/7/8" N4-DX	2	2
B22	13-00-00	11/7/8" N4-DX	1	1
B23	14-00-00	11/7/8" N4-DX	1	1
B24	14-00-00	11/7/8" N4-DX	1	1
B25	14-00-00	11/7/8" N4-DX	1	1
B26	14-00-00	11/7/8" N4-DX	1	1
B27	14-00-00	11/7/8" N4-DX	1	1
B28	14-00-00	11/7/8" N4-DX	1	1
B29	14-00-00	11/7/8" N4-DX	1	1
B30	14-00-00	11/7/8" N4-DX	1	1
B31	14-00-00	11/7/8" N4-DX	1	1
B32	14-00-00	11/7/8" N4-DX	1	1
B33	14-00-00	11/7/8" N4-DX	1	1
B34	14-00-00	11/7/8" N4-DX	1	1
B35	14-00-00	11/7/8" N4-DX	1	1
B36	14-00-00	11/7/8" N4-DX	1	1
B37	14-00-00	11/7/8" N4-DX	1	1
B38	14-00-00	11/7/8" N4-DX	1	1
B39	14-00-00	11/7/8" N4-DX	1	1
B40	14-00-00	11/7/8" N4-DX	1	1
B41	14-00-00	11/7/8" N4-DX	1	1
B42	14-00-00	11/7/8" N4-DX	1	1
B43	14-00-00	11/7/8" N4-DX	1	1
B44	14-00-00	11/7/8" N4-DX	1	1
B45	14-00-00	11/7/8" N4-DX	1	1
B46	14-00-00	11/7/8" N4-DX	1	1
B47	14-00-00	11/7/8" N4-DX	1	1
B48	14-00-00	11/7/8" N4-DX	1	1
B49	14-00-00	11/7/8" N4-DX	1	1
B50	14-00-00	11/7/8" N4-DX	1	1
B51	14-00-00	11/7/8" N4-DX	1	1
B52	14-00-00	11/7/8" N4-DX	1	1
B53	14-00-00	11/7/8" N4-DX	1	1
B54	14-00-00	11/7/8" N4-DX	1	1
B55	14-00-00	11/7/8" N4-DX	1	1
B56	14-00-00	11/7/8" N4-DX	1	1
B57	14-00-00	11/7/8" N4-DX	1	1
B58	14-00-00	11/7/8" N4-DX	1	1
B59	14-00-00	11/7/8" N4-DX	1	1
B60	14-00-00	11/7/8" N4-DX	1	1
B61	14-00-00	11/7/8" N4-DX	1	1
B62	14-00-00	11/7/8" N4-DX	1	1
B63	14-00-00	11/7/8" N4-DX	1	1
B64	14-00-00	11/7/8" N4-DX	1	1
B65	14-00-00	11/7/8" N4-DX	1	1
B66	14-00-00	11/7/8" N4-DX	1	1
B67	14-00-00	11/7/8" N4-DX	1	1
B68	14-00-00	11/7/8" N4-DX	1	1
B69	14-00-00	11/7/8" N4-DX	1	1
B70	14-00-00	11/7/8" N4-DX	1	1
B71	14-00-00	11/7/8" N4-DX	1	1
B72	14-00-00	11/7/8" N4-DX	1	1
B73	14-00-00	11/7/8" N4-DX	1	1
B74	14-00-00	11/7/8" N4-DX	1	1
B75	14-00-00	11/7/8" N4-DX	1	1
B76	14-00-00	11/7/8" N4-DX	1	1
B77	14-00-00	11/7/8" N4-DX	1	1
B78	14-00-00	11/7/8" N4-DX	1	1
B79	14-00-00	11/7/8" N4-DX	1	1
B80	14-00-00	11/7/8" N4-DX	1	1
B81	14-00-00	11/7/8" N4-DX	1	1
B82	14-00-00	11/7/8" N4-DX	1	1
B83	14-00-00	11/7/8" N4-DX	1	1
B84	14-00-00	11/7/8" N4-DX	1	1
B85	14-00-00	11/7/8" N4-DX	1	1
B86	14-00-00	11/7/8" N4-DX	1	1
B87	14-00-00	11/7/8" N4-DX	1	1
B88	14-00-00	11/7/8" N4-DX	1	1
B89	14-00-00	11/7/8" N4-DX	1	1
B90	14-00-00	11/7/8" N4-DX	1	1
B91	14-00-00	11/7/8" N4-DX	1	1
B92	14-00-00	11/7/8" N4-DX	1	1
B93	14-00-00	11/7/8" N4-DX	1	1
B94	14-00-00	11/7/8" N4-DX	1	1
B95	14-00-00	11/7/8" N4-DX	1	1
B96	14-00-00	11/7/8" N4-DX	1	1
B97	14-00-00	11/7/8" N4-DX	1	1
B98	14-00-00	11/7/8" N4-DX	1	1
B99	14-00-00	11/7/8" N4-DX	1	1
B100	14-00-00	11/7/8" N4-DX	1	1

JT/PL: 45147/116409
 LI: 343073*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 04, 2022
 Designer: TL
 Sheet: 12 of 24
 Alpa Roof Trusses Inc.
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.

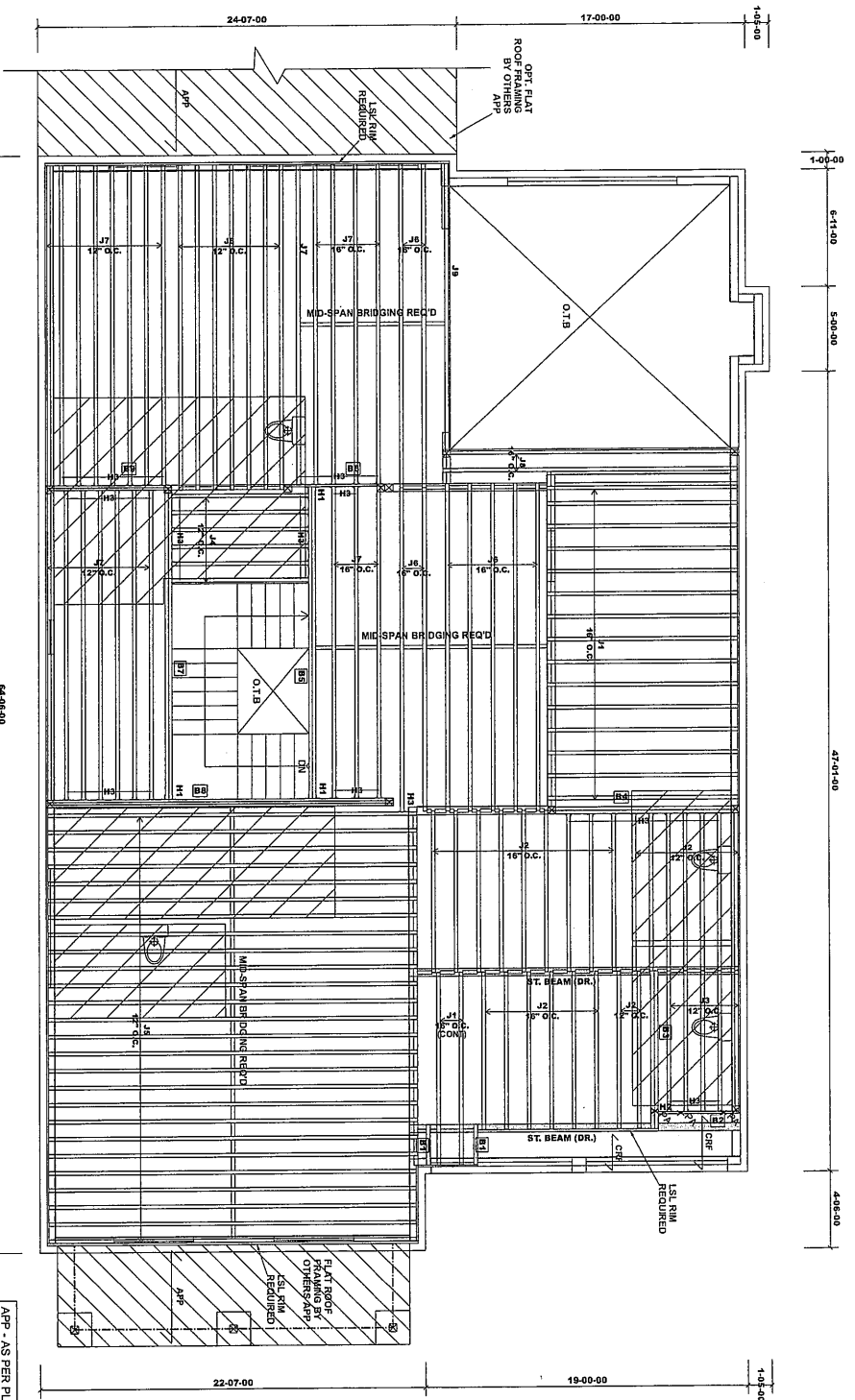
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A

FLOOR LOADING
 LIVE LOAD: 40 PSF
 DEAD LOAD: 10 PSF
 DEAD LOAD (TILE): 20 PSF

	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
 BBO - BEAM BY OTHERS
 PA - POST ABOVE
 OTB - GIRDER TO BELOW
 RT - ROOF TRUSS
 RIMBOARD
 1-1/8" X 11-7/16" O.S.B
 SUBFLOOR: 3/4" NAILED & GULDED

Blocking panels are required over all interior support blocks are required under concentrated loads.
 Ceramic Tile Application as per O.B.C. 9.30.6
 Provide (1) rigid blocking between cantilevered joists (along bearing) and rimboard closure at ends.
 Do not scale - refer to architectural plans for dimensions.



Products			Plate	Mat	Qty
ProdID	Length	Product			
B1	5-05-00	11/16" M-20	1	1	2
B2	5-05-00	1 3/4" x 11/16" 1.5SE TimberStrand® LSL	1	1	2
B3	10-00-00	11/16" M-20	2	2	2
B4	10-00-00	1 3/4" x 11/16" 1.5SE TimberStrand® LSL	2	2	2
B5	15-00-00	11/16" M-40x	1	1	2
B6	15-00-00	1 3/4" x 11/16" 1.5SE TimberStrand® LSL	1	1	2
B7	19-00-00	11/16" M-40x	1	1	2
B8	21-00-00	1 3/4" x 11/16" VERSA-LAM® 2.0 3100 SP	2	2	2
B9	21-00-00	1 3/4" x 11/16" 1.5SE TimberStrand® LSL	2	2	2
B10	6-00-00	11/16" M-20	1	1	2
C1	10-00-00	11/16" M-20	1	1	24
C2	9-00-00	11/16" M-20	1	1	5
C3	8-00-00	11/16" M-20	1	1	5
C4	22-00-00	11/16" M-40x	1	1	28
C5	20-00-00	11/16" M-40x	1	1	28
C6	18-00-00	11/16" M-40x	1	1	20
C7	18-00-00	11/16" M-40x	1	1	2
C8	17-00-00	11/16" M-40x	1	1	2
C9	15-00-00	1 1/8" x 11/16" Rein Board	1	1	1
C10	57-00-00	1 3/4" x 11/16" 1.5SE TimberStrand® LSL	1	1	1
C11	10-00-00	11/16" M-20	1	1	1

ProdID	Qty	Material	Notes
H2	1	HUB	HUB
H3	55	L75x188	

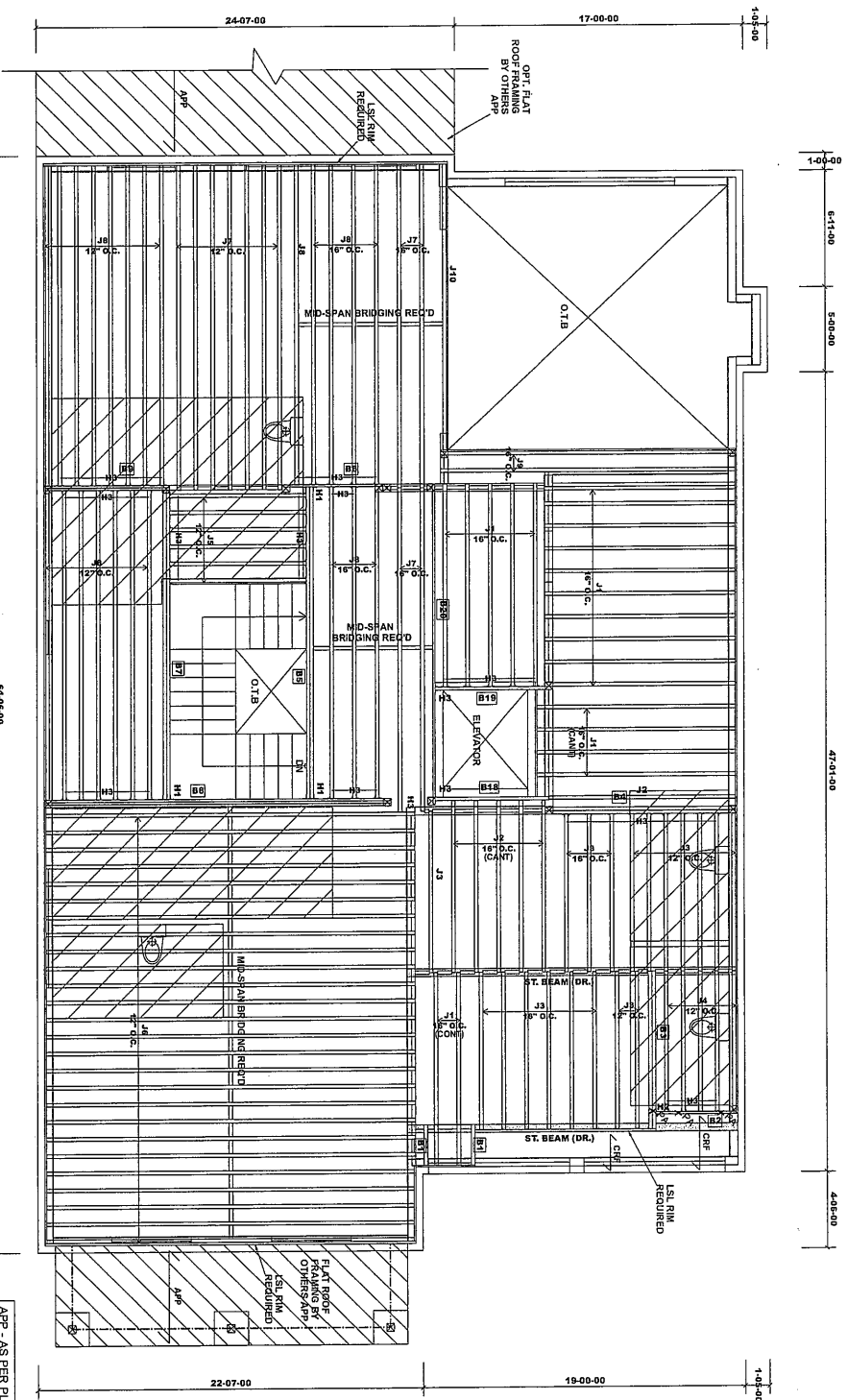
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A
W/ ELEVATOR

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP - AS PER PLAN
BEO - BENCH OVER OTHERS
RT - ROOF TRUSS
RIMJOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR- 3/4" NAILED & GULDED

Blocking panels are required over all interior supports.
Blocking panels are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide L-joint blocking between cantilevered joists (along bearing) and ribboard closure at ends.
Do not scale - refer to architectural plans for dimensions.



Field	Length	Product	Plan	Mat	Qty
B1	3.00-00	11/78" N-20	1	1	2
B2	5.00-00	1 3/4" x 11 7/8" 1.5SE TimberStrand® LSL	1	1	1
B3	12.00-00	11/78" N-20	2	2	2
B4	12.00-00	11/78" N-20	2	2	2
B5	19.00-00	11/78" N-40x	1	1	1
B6	6.00-00	1 3/4" x 11 7/8" 1.5SE TimberStrand® LSL	2	2	2
B7	19.00-00	11/78" N-40x	1	1	1
B8	19.00-00	1 3/4" x 11 7/8" 1.5SE TimberStrand® LSL	2	2	2
B9	7.00-00	11/78" N-20	1	1	1
B10	19.00-00	11/78" N-40x	1	1	1
B11	12.00-00	11/78" N-20	1	1	1
B12	12.00-00	11/78" N-20	1	1	1
B13	12.00-00	11/78" N-20	1	1	1
B14	12.00-00	11/78" N-20	1	1	1
B15	12.00-00	11/78" N-20	1	1	1
B16	12.00-00	11/78" N-20	1	1	1
B17	12.00-00	11/78" N-20	1	1	1
B18	12.00-00	11/78" N-20	1	1	1
B19	12.00-00	11/78" N-20	1	1	1
B20	12.00-00	11/78" N-20	1	1	1
B21	12.00-00	11/78" N-20	1	1	1
B22	12.00-00	11/78" N-20	1	1	1
B23	12.00-00	11/78" N-20	1	1	1
B24	12.00-00	11/78" N-20	1	1	1
B25	12.00-00	11/78" N-20	1	1	1
B26	12.00-00	11/78" N-20	1	1	1
B27	12.00-00	11/78" N-20	1	1	1
B28	12.00-00	11/78" N-20	1	1	1
B29	12.00-00	11/78" N-20	1	1	1
B30	12.00-00	11/78" N-20	1	1	1
B31	12.00-00	11/78" N-20	1	1	1
B32	12.00-00	11/78" N-20	1	1	1
B33	12.00-00	11/78" N-20	1	1	1
B34	12.00-00	11/78" N-20	1	1	1
B35	12.00-00	11/78" N-20	1	1	1
B36	12.00-00	11/78" N-20	1	1	1
B37	12.00-00	11/78" N-20	1	1	1
B38	12.00-00	11/78" N-20	1	1	1
B39	12.00-00	11/78" N-20	1	1	1
B40	12.00-00	11/78" N-20	1	1	1
B41	12.00-00	11/78" N-20	1	1	1
B42	12.00-00	11/78" N-20	1	1	1
B43	12.00-00	11/78" N-20	1	1	1
B44	12.00-00	11/78" N-20	1	1	1
B45	12.00-00	11/78" N-20	1	1	1
B46	12.00-00	11/78" N-20	1	1	1
B47	12.00-00	11/78" N-20	1	1	1
B48	12.00-00	11/78" N-20	1	1	1
B49	12.00-00	11/78" N-20	1	1	1
B50	12.00-00	11/78" N-20	1	1	1
B51	12.00-00	11/78" N-20	1	1	1
B52	12.00-00	11/78" N-20	1	1	1
B53	12.00-00	11/78" N-20	1	1	1
B54	12.00-00	11/78" N-20	1	1	1
B55	12.00-00	11/78" N-20	1	1	1
B56	12.00-00	11/78" N-20	1	1	1
B57	12.00-00	11/78" N-20	1	1	1
B58	12.00-00	11/78" N-20	1	1	1
B59	12.00-00	11/78" N-20	1	1	1
B60	12.00-00	11/78" N-20	1	1	1
B61	12.00-00	11/78" N-20	1	1	1
B62	12.00-00	11/78" N-20	1	1	1
B63	12.00-00	11/78" N-20	1	1	1
B64	12.00-00	11/78" N-20	1	1	1
B65	12.00-00	11/78" N-20	1	1	1
B66	12.00-00	11/78" N-20	1	1	1
B67	12.00-00	11/78" N-20	1	1	1
B68	12.00-00	11/78" N-20	1	1	1
B69	12.00-00	11/78" N-20	1	1	1
B70	12.00-00	11/78" N-20	1	1	1
B71	12.00-00	11/78" N-20	1	1	1
B72	12.00-00	11/78" N-20	1	1	1
B73	12.00-00	11/78" N-20	1	1	1
B74	12.00-00	11/78" N-20	1	1	1
B75	12.00-00	11/78" N-20	1	1	1
B76	12.00-00	11/78" N-20	1	1	1
B77	12.00-00	11/78" N-20	1	1	1
B78	12.00-00	11/78" N-20	1	1	1
B79	12.00-00	11/78" N-20	1	1	1
B80	12.00-00	11/78" N-20	1	1	1
B81	12.00-00	11/78" N-20	1	1	1
B82	12.00-00	11/78" N-20	1	1	1
B83	12.00-00	11/78" N-20	1	1	1
B84	12.00-00	11/78" N-20	1	1	1
B85	12.00-00	11/78" N-20	1	1	1
B86	12.00-00	11/78" N-20	1	1	1
B87	12.00-00	11/78" N-20	1	1	1
B88	12.00-00	11/78" N-20	1	1	1
B89	12.00-00	11/78" N-20	1	1	1
B90	12.00-00	11/78" N-20	1	1	1
B91	12.00-00	11/78" N-20	1	1	1
B92	12.00-00	11/78" N-20	1	1	1
B93	12.00-00	11/78" N-20	1	1	1
B94	12.00-00	11/78" N-20	1	1	1
B95	12.00-00	11/78" N-20	1	1	1
B96	12.00-00	11/78" N-20	1	1	1
B97	12.00-00	11/78" N-20	1	1	1
B98	12.00-00	11/78" N-20	1	1	1
B99	12.00-00	11/78" N-20	1	1	1
B100	12.00-00	11/78" N-20	1	1	1

Field	Qty	Material	Product
H1	3	1/2"	H10322
H2	2	1/2"	H10322
H3	2	1/2"	H10322
H4	2	1/2"	H10322
H5	2	1/2"	H10322
H6	2	1/2"	H10322
H7	2	1/2"	H10322
H8	2	1/2"	H10322
H9	2	1/2"	H10322
H10	2	1/2"	H10322
H11	2	1/2"	H10322
H12	2	1/2"	H10322
H13	2	1/2"	H10322
H14	2	1/2"	H10322
H15	2	1/2"	H10322
H16	2	1/2"	H10322
H17	2	1/2"	H10322
H18	2	1/2"	H10322
H19	2	1/2"	H10322
H20	2	1/2"	H10322
H21	2	1/2"	H10322
H22	2	1/2"	H10322
H23	2	1/2"	H10322
H24	2	1/2"	H10322
H25	2	1/2"	H10322
H26	2	1/2"	H10322
H27	2	1/2"	H10322
H28	2	1/2"	H10322
H29	2	1/2"	H10322
H30	2	1/2"	H10322
H31	2	1/2"	H10322
H32	2	1/2"	H10322
H33	2	1/2"	H10322
H34	2	1/2"	H10322
H35	2	1/2"	H10322
H36	2	1/2"	H10322
H37	2	1/2"	H10322
H38	2	1/2"	H10322
H39	2	1/2"	H10322
H40	2	1/2"	H10322
H41	2	1/2"	H10322
H42	2	1/2"	H10322
H43	2	1/2"	H10322
H44	2	1/2"	H10322
H45	2	1/2"	H10322
H46	2	1/2"	H10322
H47	2	1/2"	H10322
H48	2	1/2"	H10322
H49	2	1/2"	H10322
H50	2	1/2"	H10322
H51	2	1/2"	H10322
H52	2	1/2"	H10322
H53	2	1/2"	H10322
H54	2	1/2"	H10322
H55	2	1/2"	H10322
H56	2	1/2"	H10322
H57	2	1/2"	H10322
H58	2	1/2"	H10322
H59	2	1/2"	H10322
H60	2	1/2"	H10322
H61	2	1/2"	H10322
H62	2	1/2"	H10322
H63	2	1/2"	H10322
H64	2	1/2"	H10322
H65	2	1/2"	H10322
H66	2	1/2"	H10322
H67	2	1/2"	H10322
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H69	2	1/2"	H10322
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H71	2	1/2"	H10322
H72	2	1/2"	H10322
H73	2	1/2"	H10322
H74	2	1/2"	H10322
H75	2	1/2"	H10322
H76	2	1/2"	H10322
H77	2	1/2"	H10322
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H88	2	1/2"	H10322
H89	2	1/2"	H10322
H90	2	1/2"	H10322
H91	2	1/2"	H10322
H92	2	1/2"	H10322
H93	2	1/2"	H10322
H94	2	1/2"	H10322
H95	2	1/2"	H10322
H96	2	1/2"	H10322
H97	2	1/2"	H10322
H98	2	1/2"	H10322
H99	2	1/2"	H10322
H100	2	1/2"	H10322

JT/PL: 45147/116409
LI: 343073*
Builder: Gold Park Homes
Project: Pine Valley Ph2
Location: Vaughan, ON
Date: Apr. 04, 2022
Designer: TL
Sheet: 14 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
Home Lumber Inc.

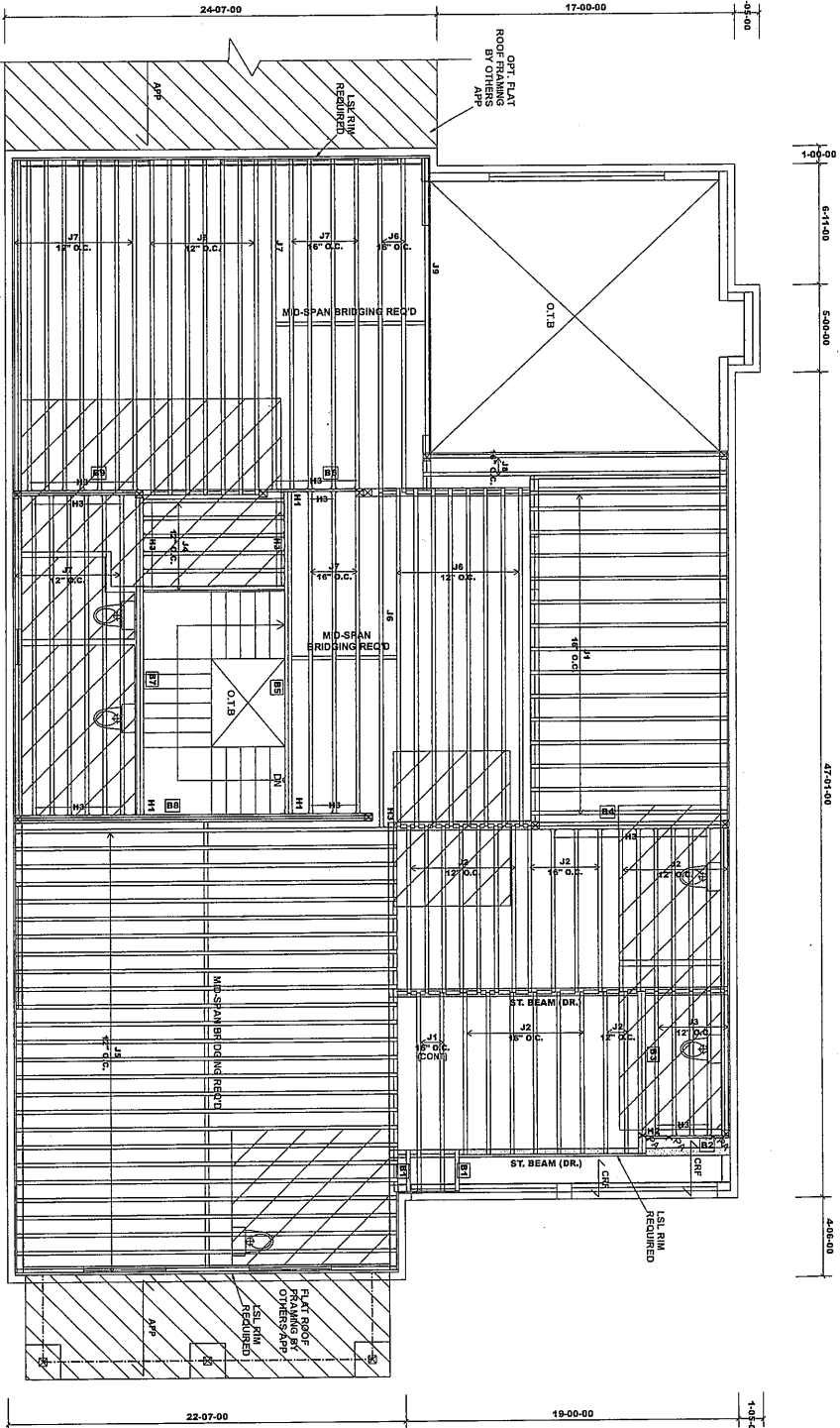
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A
W/ 5 BEDROOM

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP - AS PER PLAN
STAIRS - AS PER OTHERS
RT - ROOF TRUSS
GI - GIRDER ABOVE
O.T.B - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR: 3/4" NAILED & GULDED

Blocking panels are required over all interior supports.
Supports must be blocked under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide 1x6 blocking between cantilevered joists (along bearing) and rimboard closure at ends.
Do not scale - refer to architectural plans for dimensions.



Prod#	Length	Product	File	Nat	Qty
B1	3'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	1	2	
B2	6'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	1	
B3	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B4	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B5	18'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B6	6'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	1	2	
B7	18'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B8	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B9	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B10	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B11	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B12	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B13	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B14	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B15	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B16	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B17	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B18	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B19	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B20	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B21	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B22	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B23	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B24	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B25	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B26	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B27	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B28	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B29	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B30	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B31	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B32	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B33	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B34	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B35	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B36	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B37	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B38	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B39	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B40	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B41	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B42	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B43	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B44	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B45	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B46	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B47	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B48	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B49	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B50	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B51	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B52	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B53	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B54	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B55	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B56	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B57	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B58	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B59	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B60	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B61	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B62	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B63	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B64	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B65	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B66	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B67	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B68	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B69	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B70	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B71	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B72	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B73	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B74	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B75	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B76	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B77	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B78	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B79	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B80	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B81	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B82	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B83	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B84	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B85	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B86	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B87	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B88	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B89	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B90	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B91	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B92	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B93	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B94	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B95	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B96	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B97	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B98	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B99	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	
B100	12'-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	2	

Prod#	Qty	Manuf	Product
H2	1	HU9	L725188
H3	55		

JT/PL: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 15 of 24
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.

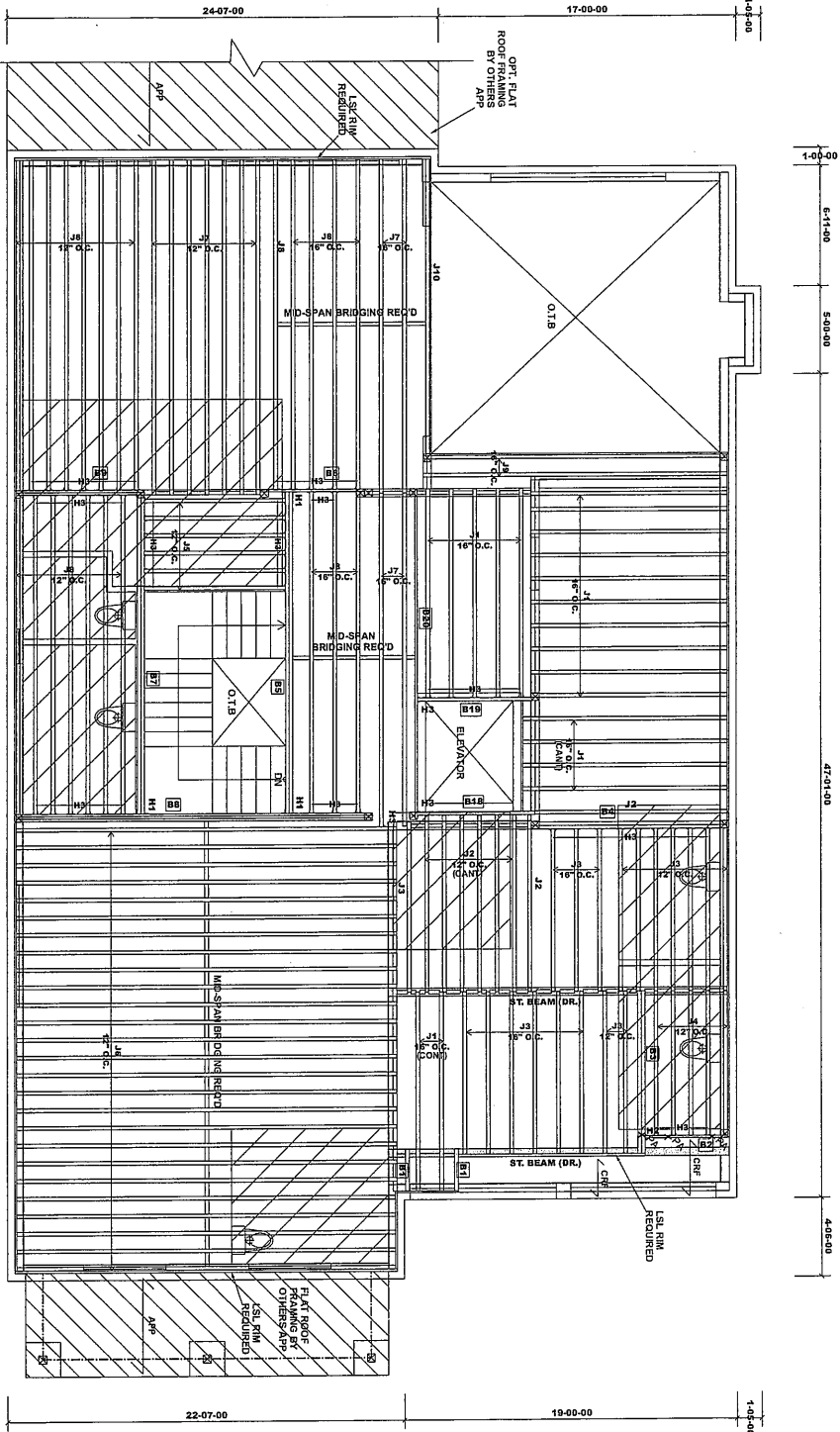
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION A
W/ 5 BEDROOM
W/ ELEVATOR

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
BBO - BEAM BY OTHERS
P.T.B. - POINT TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR- 3/4" NAILD & GULDED

Blocking panels are required over all interior supports.
Squeak blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 3.30.6
Provide 1x6 blocking between cantilevered ends (along bearing) and imbedded closure at ends.
Do not scale - refer to architectural plans for dimensions.



FIELD	Length	Product	Qty	Unit	Qty
B1	3-00-00	11/7/8" N-20	1	1	2
B2	5-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	2	1	2
B3	10-00-00	11/7/8" N-20	2	2	2
B4	10-00-00	11/7/8" N-20	2	2	2
B5	18-00-00	11/7/8" N-40x	2	2	2
B6	6-00-00	1 3/4" X 11 7/8" 1.55E TimberStrand® LSL	1	1	1
B7	19-00-00	11/7/8" N-40x	2	2	2
B8	21-00-00	1 3/4" X 11 7/8" VERSA-LUM® 2.0 3100 SP	3	3	3
B9	7-00-00	11/7/8" N-20	1	1	1
B10	7-00-00	11/7/8" N-20	1	1	1
B11	7-00-00	11/7/8" N-20	1	1	1
B12	12-00-00	11/7/8" N-20	1	1	1
B13	10-00-00	11/7/8" N-20	1	1	1
B14	9-00-00	11/7/8" N-20	1	1	1
B15	8-00-00	11/7/8" N-20	1	1	1
B16	22-00-00	11/7/8" N-40x	1	1	6
B17	22-00-00	11/7/8" N-40x	1	1	26
B18	19-00-00	11/7/8" N-40x	1	1	17
B19	18-00-00	11/7/8" N-40x	1	1	23
B20	18-00-00	11/7/8" N-40x	1	1	2
B21	17-00-00	11/7/8" N-40x	1	1	1
B22	19-00-00	1 1/8" X 11 7/8" Rim Board	1	1	1
B23	17-00-00	1 1/8" X 11 7/8" Rim Board	1	1	1
B24	10-00-00	11/7/8" N-20	1	1	1
B25	10-00-00	11/7/8" N-20	1	1	1

FIELD	Qty	Manual	Product
H1	3		HU312-2
H2	1		HU8
H3	62		L1231188

JT/PL: 45147/116409
LI: 343073*
Builder: Gold Park Homes
Project: Pine Valley Ph2
Location: Vaughan, ON
Date: Apr. 04, 2022
Designer: TL
Sheet: 16 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
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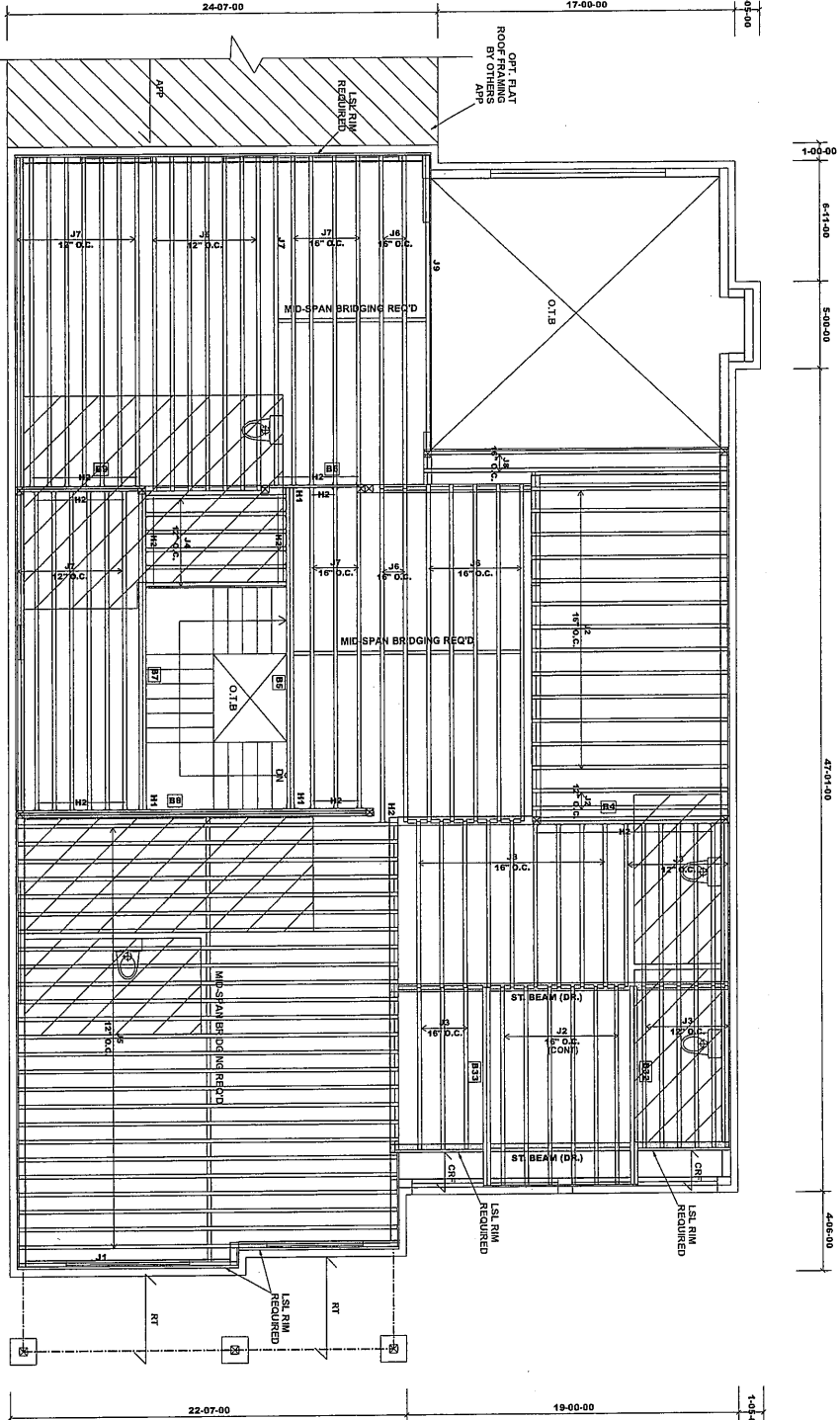
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION B

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD (TILE): 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP - AS PER PLAN
BBO - BEAM BY OTHERS
O.A. - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RUMBOARD
1-1/2" X 11-7/8" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports. Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide L-List blocking at bearing stiffeners and ends.
Do not scale - refer to architectural plans for dimensions.



PROD	Length	Product	Plan	Nat	Qty
B4	12-00-00	11 7/8" N-20	2	2	2
B5	19-00-00	11 7/8" N-40x	2	2	2
B6	6-00-00	1 3/4" x 11 7/8" 1.5SE TimberStrand® LSL	2	2	2
B7	12-00-00	11 7/8" N-20	2	2	2
B8	21-00-00	1 3/4" x 11 7/8" VERSA-LAM® 2.0 3100 SP	3	3	3
B9	8-00-00	1 3/4" x 11 7/8" 1.5SE TimberStrand® LSL	2	2	2
B10	12-00-00	11 7/8" N-20	2	2	2
B11	12-00-00	11 7/8" N-20	2	2	2
B12	12-00-00	11 7/8" N-20	2	2	2
B13	12-00-00	11 7/8" N-20	2	2	2
B14	12-00-00	11 7/8" N-20	2	2	2
B15	12-00-00	11 7/8" N-20	2	2	2
B16	12-00-00	11 7/8" N-20	2	2	2
B17	12-00-00	11 7/8" N-20	2	2	2
B18	12-00-00	11 7/8" N-20	2	2	2
B19	12-00-00	11 7/8" N-20	2	2	2
B20	12-00-00	11 7/8" N-20	2	2	2
B21	12-00-00	11 7/8" N-20	2	2	2
B22	12-00-00	11 7/8" N-20	2	2	2
B23	12-00-00	11 7/8" N-20	2	2	2
B24	12-00-00	11 7/8" N-20	2	2	2
B25	12-00-00	11 7/8" N-20	2	2	2
B26	12-00-00	11 7/8" N-20	2	2	2
B27	12-00-00	11 7/8" N-20	2	2	2
B28	12-00-00	11 7/8" N-20	2	2	2
B29	12-00-00	11 7/8" N-20	2	2	2
B30	12-00-00	11 7/8" N-20	2	2	2
B31	12-00-00	11 7/8" N-20	2	2	2
B32	12-00-00	11 7/8" N-20	2	2	2
B33	12-00-00	11 7/8" N-20	2	2	2
B34	12-00-00	11 7/8" N-20	2	2	2
B35	12-00-00	11 7/8" N-20	2	2	2
B36	12-00-00	11 7/8" N-20	2	2	2
B37	12-00-00	11 7/8" N-20	2	2	2
B38	12-00-00	11 7/8" N-20	2	2	2
B39	12-00-00	11 7/8" N-20	2	2	2
B40	12-00-00	11 7/8" N-20	2	2	2
B41	12-00-00	11 7/8" N-20	2	2	2
B42	12-00-00	11 7/8" N-20	2	2	2
B43	12-00-00	11 7/8" N-20	2	2	2
B44	12-00-00	11 7/8" N-20	2	2	2
B45	12-00-00	11 7/8" N-20	2	2	2
B46	12-00-00	11 7/8" N-20	2	2	2
B47	12-00-00	11 7/8" N-20	2	2	2
B48	12-00-00	11 7/8" N-20	2	2	2
B49	12-00-00	11 7/8" N-20	2	2	2
B50	12-00-00	11 7/8" N-20	2	2	2
B51	12-00-00	11 7/8" N-20	2	2	2
B52	12-00-00	11 7/8" N-20	2	2	2
B53	12-00-00	11 7/8" N-20	2	2	2
B54	12-00-00	11 7/8" N-20	2	2	2
B55	12-00-00	11 7/8" N-20	2	2	2
B56	12-00-00	11 7/8" N-20	2	2	2
B57	12-00-00	11 7/8" N-20	2	2	2
B58	12-00-00	11 7/8" N-20	2	2	2
B59	12-00-00	11 7/8" N-20	2	2	2
B60	12-00-00	11 7/8" N-20	2	2	2
B61	12-00-00	11 7/8" N-20	2	2	2
B62	12-00-00	11 7/8" N-20	2	2	2
B63	12-00-00	11 7/8" N-20	2	2	2
B64	12-00-00	11 7/8" N-20	2	2	2
B65	12-00-00	11 7/8" N-20	2	2	2
B66	12-00-00	11 7/8" N-20	2	2	2
B67	12-00-00	11 7/8" N-20	2	2	2
B68	12-00-00	11 7/8" N-20	2	2	2
B69	12-00-00	11 7/8" N-20	2	2	2
B70	12-00-00	11 7/8" N-20	2	2	2
B71	12-00-00	11 7/8" N-20	2	2	2
B72	12-00-00	11 7/8" N-20	2	2	2
B73	12-00-00	11 7/8" N-20	2	2	2
B74	12-00-00	11 7/8" N-20	2	2	2
B75	12-00-00	11 7/8" N-20	2	2	2
B76	12-00-00	11 7/8" N-20	2	2	2
B77	12-00-00	11 7/8" N-20	2	2	2
B78	12-00-00	11 7/8" N-20	2	2	2
B79	12-00-00	11 7/8" N-20	2	2	2
B80	12-00-00	11 7/8" N-20	2	2	2
B81	12-00-00	11 7/8" N-20	2	2	2
B82	12-00-00	11 7/8" N-20	2	2	2
B83	12-00-00	11 7/8" N-20	2	2	2
B84	12-00-00	11 7/8" N-20	2	2	2
B85	12-00-00	11 7/8" N-20	2	2	2
B86	12-00-00	11 7/8" N-20	2	2	2
B87	12-00-00	11 7/8" N-20	2	2	2
B88	12-00-00	11 7/8" N-20	2	2	2
B89	12-00-00	11 7/8" N-20	2	2	2
B90	12-00-00	11 7/8" N-20	2	2	2
B91	12-00-00	11 7/8" N-20	2	2	2
B92	12-00-00	11 7/8" N-20	2	2	2
B93	12-00-00	11 7/8" N-20	2	2	2
B94	12-00-00	11 7/8" N-20	2	2	2
B95	12-00-00	11 7/8" N-20	2	2	2
B96	12-00-00	11 7/8" N-20	2	2	2
B97	12-00-00	11 7/8" N-20	2	2	2
B98	12-00-00	11 7/8" N-20	2	2	2
B99	12-00-00	11 7/8" N-20	2	2	2
B100	12-00-00	11 7/8" N-20	2	2	2

PROD	Qty	Manuf	Product
H1	3		HL372-2
H2	52		LT27188

JT/P.L: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 17 of 24
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.

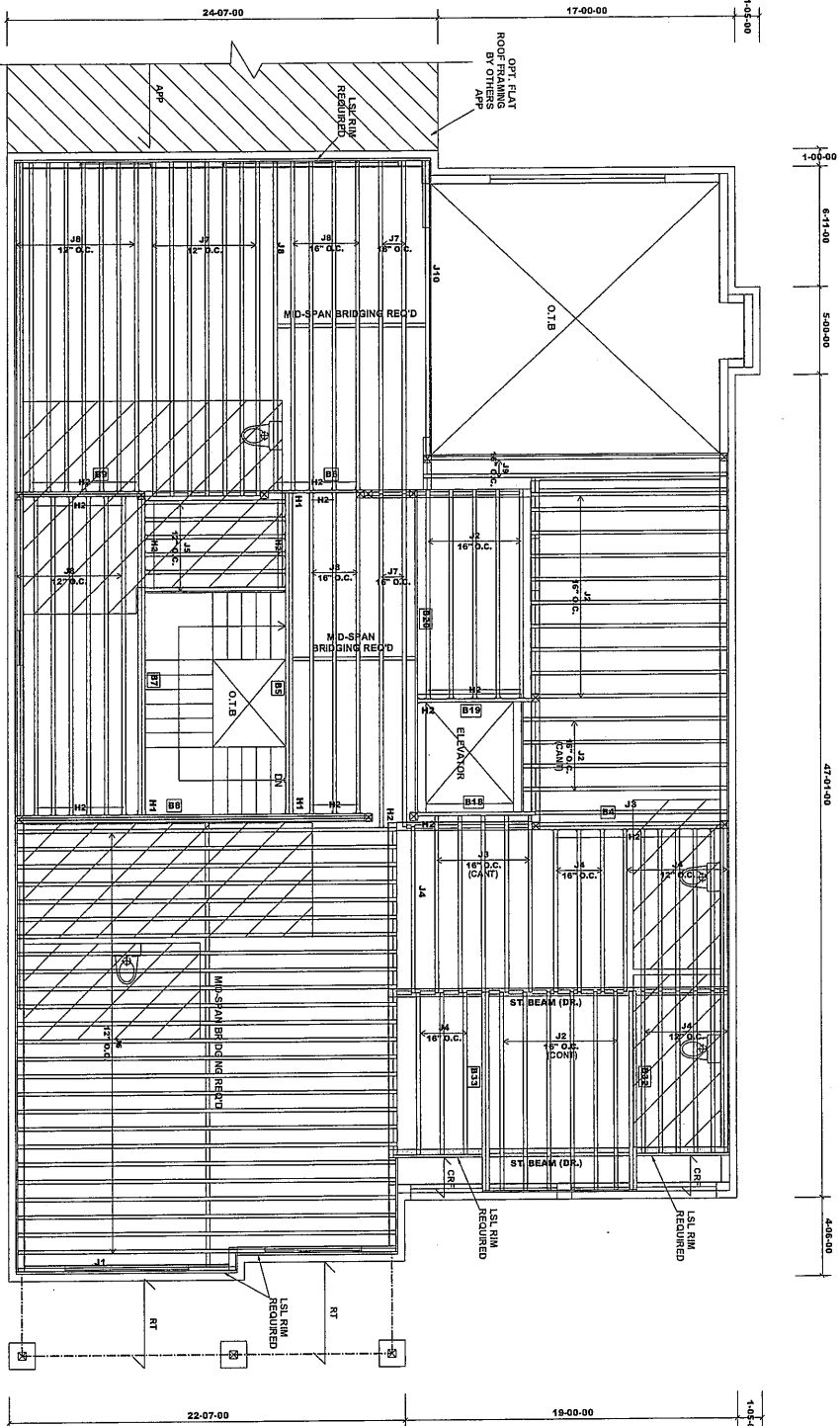
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION B
W/ ELEVATOR

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE): 20 PSF

	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
BBO - BEAM BY OTHERS
O.A. - OPENING ABOVE
O.B. - OPENING BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOC - RIM BOARD
1'-10" X 11'-7 1/2" O.S.B
SUBFLOOR: 3/4" VAILED & GLUED*

Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide 1" x 1" blocking between cantilevered joists (along bearing) and rimboard course at ends.
Do not scale - refer to architectural plans for dimensions.



Field	Length	Product	Plies	Net Qty
B4	12-00-00	11/78" N-20	2	2
B5	19-00-00	11/78" N-40x	2	2
B6	6-00-00	1 3/4" X 11/78" 1.5SE TimberStrand® LSL	2	2
B7	19-00-00	11/78" X 11/78" VERSA-LAM® 2.0 3100 SP	2	2
B8	22-00-00	1 3/4" X 11/78" 1.5SE TimberStrand® LSL	2	2
B9	6-00-00	1 3/4" X 11/78" 1.5SE TimberStrand® LSL	2	2
B10	7-00-00	11/78" N-20	1	1
B18	7-00-00	11/78" N-20	1	1
B20	13-00-00	1 3/4" X 11/78" 1.5SE TimberStrand® LSL	1	1
B22	13-00-00	11/78" N-20	2	2
B33	12-00-00	11/78" N-20	1	1
J1	12-00-00	11/78" N-20	1	1
J2	12-00-00	11/78" N-20	1	1
J3	10-00-00	11/78" N-20	1	1
J4	10-00-00	11/78" N-20	1	1
J5	8-00-00	11/78" N-40x	1	1
J6	20-00-00	11/78" N-40x	1	1
J7	20-00-00	11/78" N-40x	1	1
J8	18-00-00	11/78" N-40x	1	1
J9	18-00-00	11/78" N-40x	1	1
J10	17-00-00	11/78" N-40x	1	1
Cat1	19-00-00	1 3/4" X 11/78" Rim Board	1	1
Cat2	10-00-00	1 3/4" X 11/78" 1.5SE TimberStrand® LSL	1	1
BK1	10-00-00	11/78" N-20	1	1

Field	Qty	Material	Notes
H1	3	4x8	HT312-2
H2	59	4x8	LT21168

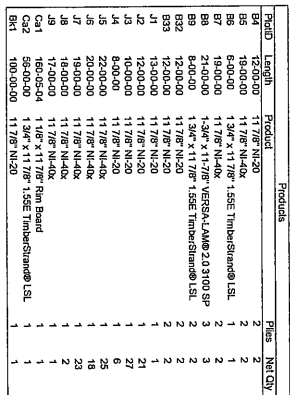
JT/PL: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 18 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.



Blocking panels are required over all interior supporting walls and columns.
Such blocks are required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.3.0.6
Provide 1 Joist blocking between cantilevered joists (along bearing) and inboard closure at ends.

Do not scale - refer to architectural plans for dimensions.

Designer: TL Alpa Roof Trusses Inc. Salesperson: Derek F.
Sheet: 19 of 24 Stouffville, Ontario Home Lumber Inc.

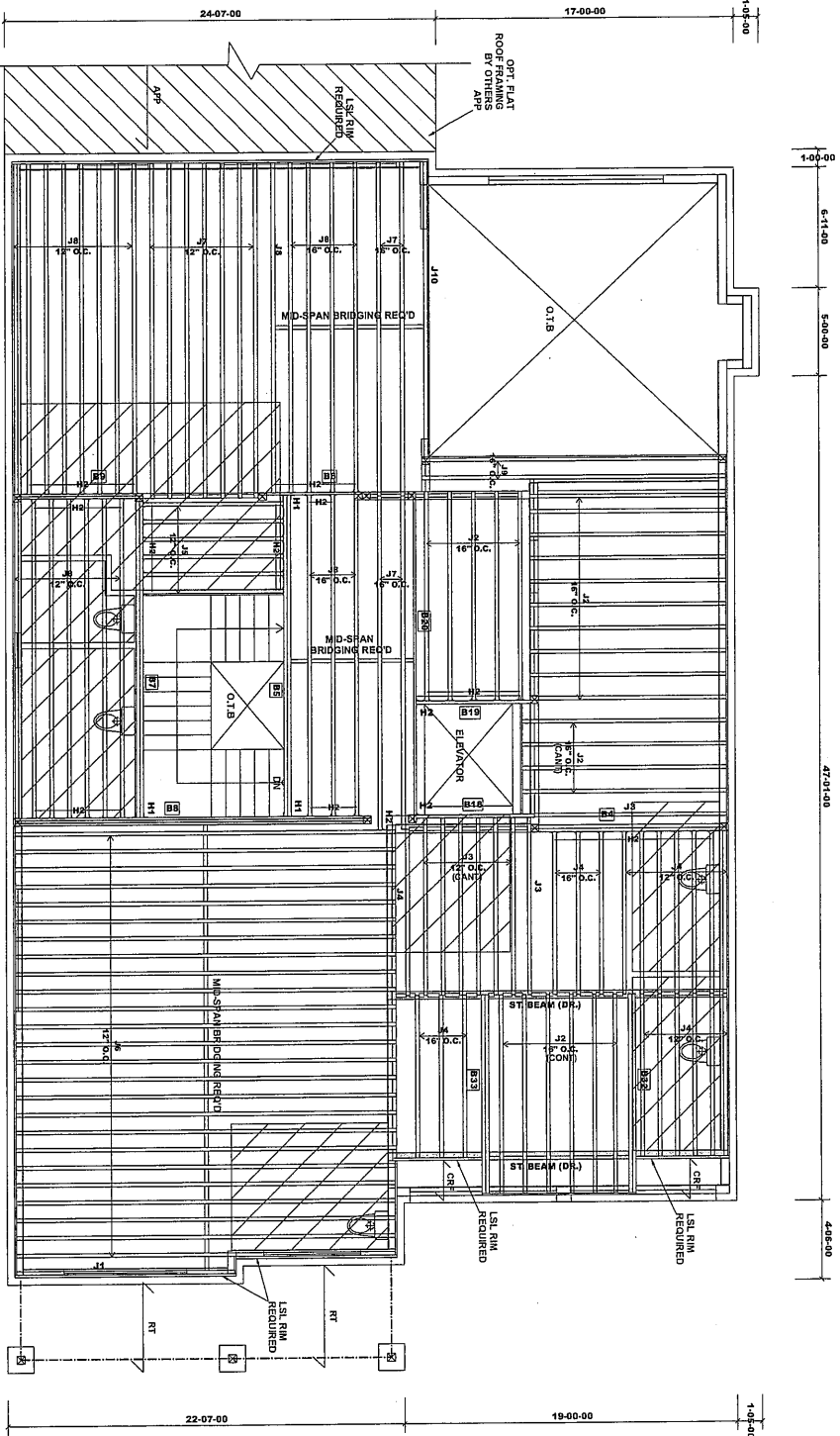
SECOND FLOOR FRAMING	
UNIT 5011 - THE TIMBERLAND	
ELEVATION B	
W/ 6 BEDROOM	
W/ ELEVATOR	

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD (TILE): 20 PSF

HATCH LEGEND	
	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
BBD - BEAM BY OTHERS
BBD - OPEN TO BELOW
O.T.B. - OPEN TO BELOW
G.T. - GIRDER TRUSS
RT - ROOF TRUSS
RUMGCARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR 3/4" VAILED & GLUED*

Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide L-shaped blocking between cantilevered joists (along bearing) and imbedded closure at ends.
Do not scale - refer to architectural plans for dimensions.



Field	Length	Product	Units	Plan	Nat	Qty
B4	1200.00	11/7/8 N-20	2	2		
B5	1800.00	11/7/8 N-40x	2	2		
B6	1800.00	11/7/8 N-40x	2	2		
B7	1800.00	11/7/8 N-40x	2	2		
B8	2100.00	1-3/4" X 11-7/8" VERGAL-LAM@ 2.0 3100 SP	3	3		
B9	800.00	11/7/8 N-20	2	2		
B10	700.00	11/7/8 N-20	1	1		
B11	1800.00	11/7/8 N-40x	2	2		
B12	1200.00	11/7/8 N-20	2	2		
B13	1300.00	11/7/8 N-20	1	1		
B14	1100.00	11/7/8 N-20	1	1		
B15	1000.00	11/7/8 N-20	1	1		
B16	1000.00	11/7/8 N-20	1	1		
B17	1000.00	11/7/8 N-20	1	1		
B18	1000.00	11/7/8 N-20	1	1		
B19	1000.00	11/7/8 N-20	1	1		
B20	1000.00	11/7/8 N-20	1	1		
B21	1000.00	11/7/8 N-20	1	1		
B22	1000.00	11/7/8 N-20	1	1		
B23	1000.00	11/7/8 N-20	1	1		
B24	1000.00	11/7/8 N-20	1	1		
B25	1000.00	11/7/8 N-20	1	1		
B26	1000.00	11/7/8 N-20	1	1		
B27	1000.00	11/7/8 N-20	1	1		
B28	1000.00	11/7/8 N-20	1	1		
B29	1000.00	11/7/8 N-20	1	1		
B30	1000.00	11/7/8 N-20	1	1		
B31	1000.00	11/7/8 N-20	1	1		
B32	1000.00	11/7/8 N-20	1	1		
B33	1000.00	11/7/8 N-20	1	1		
B34	1000.00	11/7/8 N-20	1	1		
B35	1000.00	11/7/8 N-20	1	1		
B36	1000.00	11/7/8 N-20	1	1		
B37	1000.00	11/7/8 N-20	1	1		
B38	1000.00	11/7/8 N-20	1	1		
B39	1000.00	11/7/8 N-20	1	1		
B40	1000.00	11/7/8 N-20	1	1		
B41	1000.00	11/7/8 N-20	1	1		
B42	1000.00	11/7/8 N-20	1	1		
B43	1000.00	11/7/8 N-20	1	1		
B44	1000.00	11/7/8 N-20	1	1		
B45	1000.00	11/7/8 N-20	1	1		
B46	1000.00	11/7/8 N-20	1	1		
B47	1000.00	11/7/8 N-20	1	1		
B48	1000.00	11/7/8 N-20	1	1		
B49	1000.00	11/7/8 N-20	1	1		
B50	1000.00	11/7/8 N-20	1	1		

Connect Summary			
Field	Qty	Material	Product
B1	3		HU3122
B2	58		L7231188

JT/PL: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2
Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet 20 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
Home Lumber Inc.

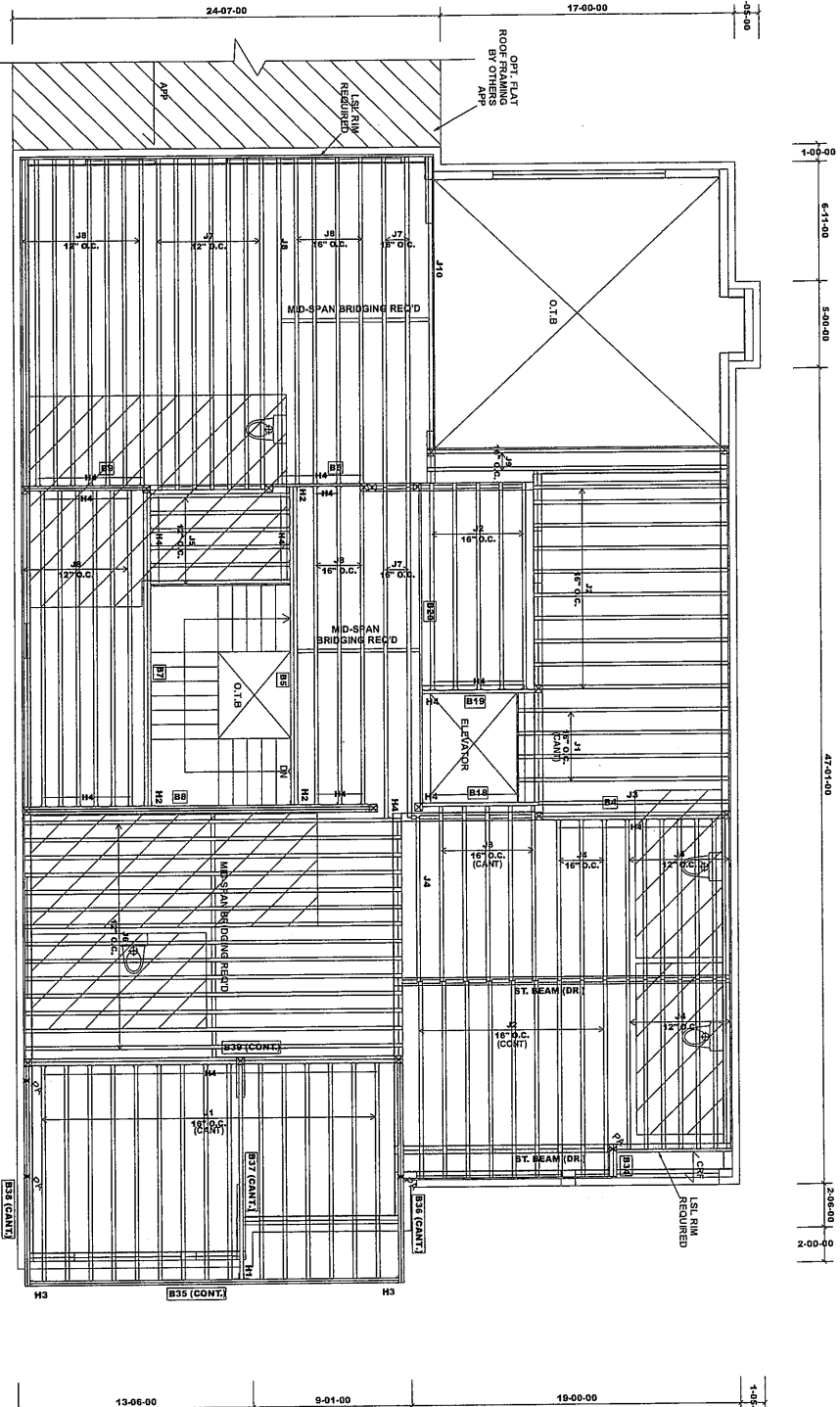
SECOND FLOOR FRAMING
UNIT 5011 - THE TIMBERLAND
ELEVATION C
W/ ELEVATOR

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 10 PSF
DEAD LOAD (TILE) : 20 PSF

	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
PA - POST ABOVE
OTB - OPEN TO BELOW
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUB-FLOOR: 3/4" NAILED & GULFED

Blocking panels are required over all interior support blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide 1-joint blocking between cantilevered joists (along bearing) and inboard closure at ends.
Do not scale - refer to architectural plans for dimensions.



ProdID	Qty	Manuf	Product	Plus	Nat	City
B4	2		11 7/8" N-20	2		
B5	2		11 7/8" N-40x	2		
B6	2		11 7/8" N-40x	2		
B7	2		11 7/8" N-40x	2		
B8	2		11 7/8" N-40x	2		
B9	2		11 7/8" N-40x	2		
B10	2		11 7/8" N-40x	2		
B11	2		11 7/8" N-40x	2		
B12	2		11 7/8" N-40x	2		
B13	2		11 7/8" N-40x	2		
B14	2		11 7/8" N-40x	2		
B15	2		11 7/8" N-40x	2		
B16	2		11 7/8" N-40x	2		
B17	2		11 7/8" N-40x	2		
B18	2		11 7/8" N-40x	2		
B19	2		11 7/8" N-40x	2		
B20	2		11 7/8" N-40x	2		
B21	2		11 7/8" N-40x	2		
B22	2		11 7/8" N-40x	2		
B23	2		11 7/8" N-40x	2		
B24	2		11 7/8" N-40x	2		
B25	2		11 7/8" N-40x	2		
B26	2		11 7/8" N-40x	2		
B27	2		11 7/8" N-40x	2		
B28	2		11 7/8" N-40x	2		
B29	2		11 7/8" N-40x	2		
B30	2		11 7/8" N-40x	2		
B31	2		11 7/8" N-40x	2		
B32	2		11 7/8" N-40x	2		
B33	2		11 7/8" N-40x	2		
B34	2		11 7/8" N-40x	2		
B35	2		11 7/8" N-40x	2		
B36	2		11 7/8" N-40x	2		
B37	2		11 7/8" N-40x	2		
B38	2		11 7/8" N-40x	2		
B39	2		11 7/8" N-40x	2		
B40	2		11 7/8" N-40x	2		
B41	2		11 7/8" N-40x	2		
B42	2		11 7/8" N-40x	2		
B43	2		11 7/8" N-40x	2		
B44	2		11 7/8" N-40x	2		
B45	2		11 7/8" N-40x	2		
B46	2		11 7/8" N-40x	2		
B47	2		11 7/8" N-40x	2		
B48	2		11 7/8" N-40x	2		
B49	2		11 7/8" N-40x	2		
B50	2		11 7/8" N-40x	2		
B51	2		11 7/8" N-40x	2		
B52	2		11 7/8" N-40x	2		
B53	2		11 7/8" N-40x	2		
B54	2		11 7/8" N-40x	2		
B55	2		11 7/8" N-40x	2		
B56	2		11 7/8" N-40x	2		
B57	2		11 7/8" N-40x	2		
B58	2		11 7/8" N-40x	2		
B59	2		11 7/8" N-40x	2		
B60	2		11 7/8" N-40x	2		
B61	2		11 7/8" N-40x	2		
B62	2		11 7/8" N-40x	2		
B63	2		11 7/8" N-40x	2		
B64	2		11 7/8" N-40x	2		
B65	2		11 7/8" N-40x	2		
B66	2		11 7/8" N-40x	2		
B67	2		11 7/8" N-40x	2		
B68	2		11 7/8" N-40x	2		
B69	2		11 7/8" N-40x	2		
B70	2		11 7/8" N-40x	2		
B71	2		11 7/8" N-40x	2		
B72	2		11 7/8" N-40x	2		
B73	2		11 7/8" N-40x	2		
B74	2		11 7/8" N-40x	2		
B75	2		11 7/8" N-40x	2		
B76	2		11 7/8" N-40x	2		
B77	2		11 7/8" N-40x	2		
B78	2		11 7/8" N-40x	2		
B79	2		11 7/8" N-40x	2		
B80	2		11 7/8" N-40x	2		
B81	2		11 7/8" N-40x	2		
B82	2		11 7/8" N-40x	2		
B83	2		11 7/8" N-40x	2		
B84	2		11 7/8" N-40x	2		
B85	2		11 7/8" N-40x	2		
B86	2		11 7/8" N-40x	2		
B87	2		11 7/8" N-40x	2		
B88	2		11 7/8" N-40x	2		
B89	2		11 7/8" N-40x	2		
B90	2		11 7/8" N-40x	2		
B91	2		11 7/8" N-40x	2		
B92	2		11 7/8" N-40x	2		
B93	2		11 7/8" N-40x	2		
B94	2		11 7/8" N-40x	2		
B95	2		11 7/8" N-40x	2		
B96	2		11 7/8" N-40x	2		
B97	2		11 7/8" N-40x	2		
B98	2		11 7/8" N-40x	2		
B99	2		11 7/8" N-40x	2		
B100	2		11 7/8" N-40x	2		

ProdID	Qty	Manuf	Product
H1	1	NA	HU312 (INVERTED)
H2	2		HU312
H3	3		HU312
H4	3		HU312
H5	3		HU312
H6	3		HU312
H7	3		HU312
H8	3		HU312
H9	3		HU312
H10	3		HU312
H11	3		HU312
H12	3		HU312
H13	3		HU312
H14	3		HU312
H15	3		HU312
H16	3		HU312
H17	3		HU312
H18	3		HU312
H19	3		HU312
H20	3		HU312
H21	3		HU312
H22	3		HU312
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H24	3		HU312
H25	3		HU312
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H89	3		HU312
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H94	3		HU312
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H98	3		HU312
H99	3		HU312
H100	3		HU312

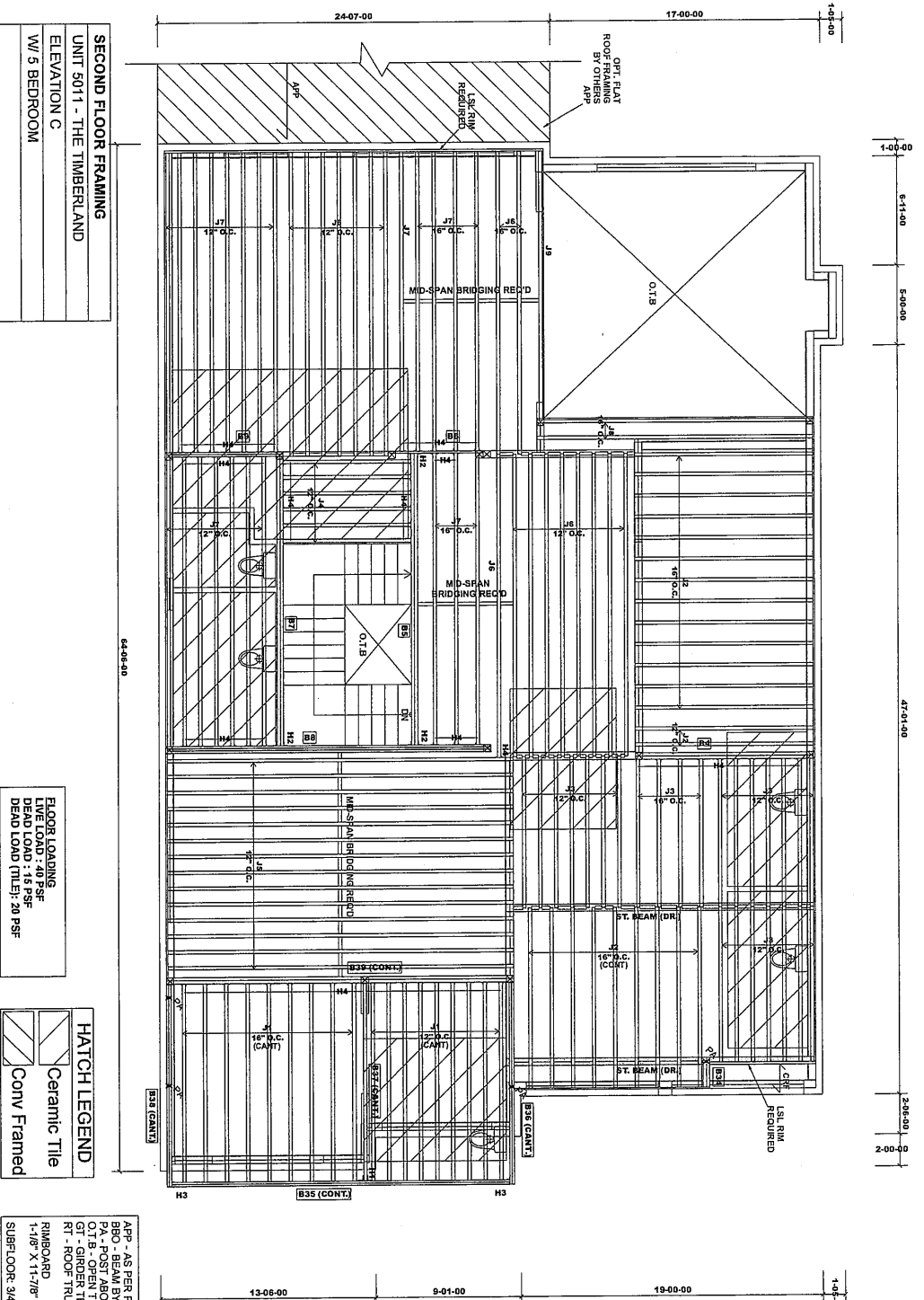
JT/PL: 45147/116409
LI: 343073*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 04, 2022

Designer: TL
Sheet: 22 of 24

Salesperson: Derek F.
Home Lumber Inc.



SECOND FLOOR FRAMING
 UNIT 5011 - THE TIMBERLAND
 ELEVATION C
 W/ 5 BEDROOM

FLOOR LOADING
 LIVE LOAD : 40 PSF
 DEAD LOAD : 15 PSF
 DEAD LOAD (TILE) : 20 PSF

HATCH LEGEND
☒ Ceramic Tile
☒ Conv Framed

APP - AS PER PLAN
 BBO - AS PER PLAN
 BPO - AS PER PLAN
 O.T.B. - OPEN TO BELOW
 RT - ROOF TRUSS
 RT - ROOF TRUSS
 SUBFLOOR 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports.
 Blocking panels are required under concentrated loads.
 Ceramic Tile Application as per O.B.C. 9.30.6
 Provide L-shaped blocking between cantilevered joists (along bearing) and imbed closure at ends.
 Do not scale - refer to architectural plans for dimensions.

Prod	Qty	Material	Product
H1	1	NA	H0312 (INVERTED)
H2	3	NA	H0312
H3	1	NA	H0312
H4	70	NA	L753108

Prod	Length	Product	Plus	Net Qty
B4	13'-00.00	11/16" N-20	2	2
B5	18'-00.00	11/16" N-40x	2	2
B6	18'-00.00	11/16" N-40x	2	2
B7	18'-00.00	11/16" N-40x	2	2
B8	21'-00.00	1-3/4" x 11/16" VERICAL@ 2.010 SP	3	3
B9	8'-00.00	1-3/4" x 11/16" 155E TimberStraw@ LSL	2	2
B10	2'-00.00	11/16" N-20	2	2
B11	18'-00.00	11/16" N-40x	2	2
B12	18'-00.00	11/16" N-40x	2	2
B13	18'-00.00	11/16" N-40x	2	2
B14	18'-00.00	11/16" N-40x	2	2
B15	18'-00.00	11/16" N-40x	2	2
B16	18'-00.00	11/16" N-40x	2	2
B17	18'-00.00	11/16" N-40x	2	2
B18	18'-00.00	11/16" N-40x	2	2
B19	18'-00.00	11/16" N-40x	2	2
B20	18'-00.00	11/16" N-40x	2	2
B21	18'-00.00	11/16" N-40x	2	2
B22	18'-00.00	11/16" N-40x	2	2
B23	18'-00.00	11/16" N-40x	2	2
B24	18'-00.00	11/16" N-40x	2	2
B25	18'-00.00	11/16" N-40x	2	2
B26	18'-00.00	11/16" N-40x	2	2
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B45	18'-00.00	11/16" N-40x	2	2
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B52	18'-00.00	11/16" N-40x	2	2
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B57	18'-00.00	11/16" N-40x	2	2
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B59	18'-00.00	11/16" N-40x	2	2
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B70	18'-00.00	11/16" N-40x	2	2
B71	18'-00.00	11/16" N-40x	2	2
B72	18'-00.00	11/16" N-40x	2	2
B73	18'-00.00	11/16" N-40x	2	2
B74	18'-00.00	11/16" N-40x	2	2
B75	18'-00.00	11/16" N-40x	2	2
B76	18'-00.00	11/16" N-40x	2	2
B77	18'-00.00	11/16" N-40x	2	2
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B79	18'-00.00	11/16" N-40x	2	2
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B86	18'-00.00	11/16" N-40x	2	2
B87	18'-00.00	11/16" N-40x	2	2
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B95	18'-00.00	11/16" N-40x	2	2
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B97	18'-00.00	11/16" N-40x	2	2
B98	18'-00.00	11/16" N-40x	2	2
B99	18'-00.00	11/16" N-40x	2	2
B100	18'-00.00	11/16" N-40x	2	2

JT/PL: 45147/116409
 LI: 343073*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 04, 2022
 Designer: TL
 Sheet 23 of 24
 Alfa Roof Trusses Inc.
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.

SECOND FLOOR FRAMING	
UNIT 5011 - THE TIMBERLAND	
ELEVATION C	
W/ 5 BEDROOM	
W/ ELEVATOR	

FLOOR LOADING
LIVE LOAD : 40 PSF
DEAD LOAD : 15 PSF
DEAD LOAD (TILE) : 20 PSF

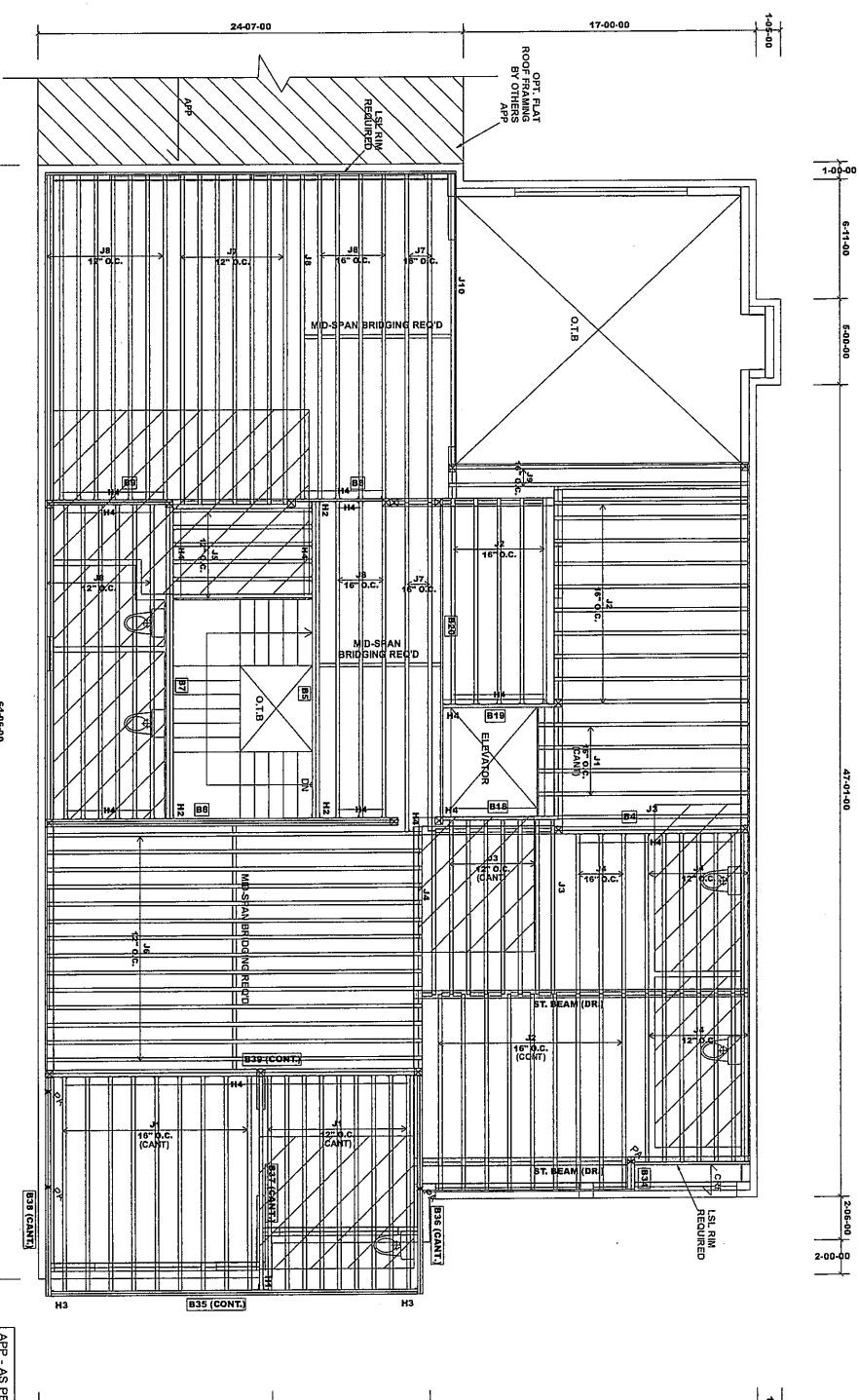
HATCH LEGEND	
	Ceramic Tile
	Conv Framed

APP - AS PER PLAN
BTD - BENT DOWN
BTD - BENT DOWN
OTB - OPEN TO BELOW
RT - ROOF TRUSS
RIMJOIST
1-1/8" X 11-7/8" OSB
SUBFLOOR, 3/4" NAILLED & GULFED

Blocking panels are required over all interior supports.
Squealer blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.6
Provide L-List blocking between cantilevered joists (along bearing) and miscboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

FIELD	QTY	Material	Product
H1	1	N/A	H4312 (INVERTED)
H2	3		H4312-2
H3	2		H4C10
H4	76		L1251185

Field	Length	Product	Plates	Nail Qty
B4	12-00-00	11 7/8" N-20	2	2
B5	19-00-00	11 7/8" N-40x	2	2
B6	19-00-00	11 7/8" N-40x	2	2
B7	21-00-00	1-3/4" x 11-7/8" VERSALAM 2.0 3100 SP	3	3
B8	8-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	2	2
B9	7-00-00	11 7/8" N-20	1	1
B10	19-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	1	1
B11	2-00-00	11 7/8" N-20	2	2
B12	2-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	2	2
B13	13-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	2	2
B14	13-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	2	2
B15	13-00-00	1-3/4" x 11-7/8" 1.55E TimberStrand® LSL	2	2
B16	22-00-00	11 7/8" N-20	2	2
B17	13-00-00	11 7/8" N-20	1	22
B18	13-00-00	11 7/8" N-20	1	24
B19	10-00-00	11 7/8" N-20	1	16
B20	8-00-00	11 7/8" N-20	1	6
B21	22-00-00	11 7/8" N-40x	1	14
B22	22-00-00	11 7/8" N-40x	1	11
B23	18-00-00	11 7/8" N-40x	1	1
B24	18-00-00	11 7/8" N-40x	1	1
B25	17-00-00	11 7/8" N-40x	1	1
B26	17-00-00	11 7/8" N-40x	1	1
B27	17-00-00	11 7/8" N-40x	1	1
B28	17-00-00	11 7/8" N-40x	1	1
B29	17-00-00	11 7/8" N-40x	1	1
B30	17-00-00	11 7/8" N-40x	1	1
B31	17-00-00	11 7/8" N-40x	1	1
B32	17-00-00	11 7/8" N-40x	1	1
B33	17-00-00	11 7/8" N-40x	1	1
B34	17-00-00	11 7/8" N-40x	1	1
B35	17-00-00	11 7/8" N-40x	1	1
B36	17-00-00	11 7/8" N-40x	1	1
B37	17-00-00	11 7/8" N-40x	1	1
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B44	17-00-00	11 7/8" N-40x	1	1
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B97	17-00-00	11 7/8" N-40x	1	1
B98	17-00-00	11 7/8" N-40x	1	1
B99	17-00-00	11 7/8" N-40x	1	1
B100	17-00-00	11 7/8" N-40x	1	1



JT/PL: 45147/116409
LI: 343073*
Builder: Gold Park Homes
Project: Pine Valley Ph2
Location: Vaughan, ON
Date: Apr. 04, 2022
Designer: TL
Sheet: 24 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
Home Lumber Inc.



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B2 - i50187**
Type: **Beam**

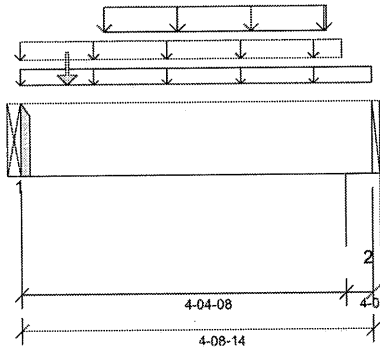
1 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in Mitek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:43



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 0'- 9 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 4'- 5 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 4 3/4"	1.25D + 1.5L + S	0.96	1346 lb ft	12692 lb ft	Passed - 11%
Factored Shear:	0'- 11 7/8"	1.25D + 1.5L + S	0.96	957 lb	6895 lb	Passed - 14%
Total Load (TL) Pos. Defl.:	2'- 2 3/4"	D + L + 0.5S		0.010"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-08	1.25D + 1.5L + S	0.96	1147 lb		3291 lb	-	Passed - 35%
2	4-06	1.25D + 1.5L + S	0.96	1114 lb		9599 lb	4506 lb	Passed - 25%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HU9		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

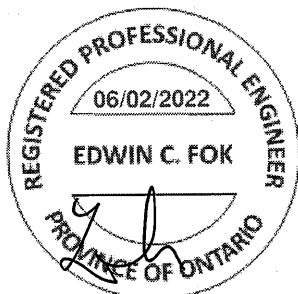
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	4'- 8 7/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	4'- 8 7/8"	User Load	Top	21 lb/ft	-	32 lb/ft	-
Uniform	0'	4'- 4"	E18(41627)	Top	101 lb/ft	-	-	-
Uniform	1'- 1 5/8"	4'- 1 5/8"	Smoothed Load	Back	81 lb/ft	168 lb/ft	-	-
Point	0'- 7 5/8"	0'- 7 5/8"	J3(i50794)	Back	75 lb	155 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B3(i50688)	450 lb	332 lb	71 lb	-
2	4'- 4 1/2"	4'- 8 7/8"	E13(41622)	447 lb	327 lb	81 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



SE046730



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B3 - i50688**
Type: **Beam**

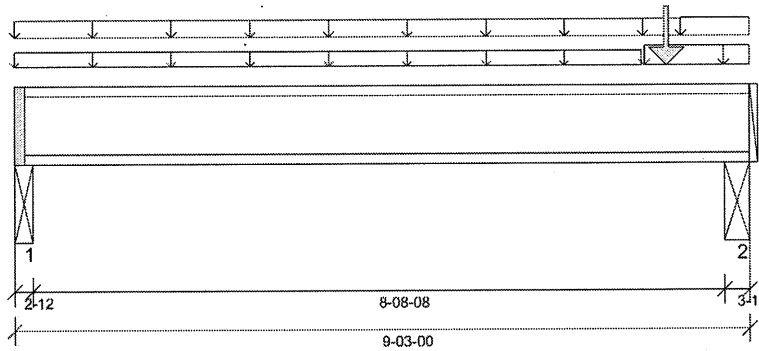
2 Ply Member
11 7/8" NI-20

Status:
**Design
Passed**

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:44



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 8'- 1/4"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 769 psi Beam @ 9'- 1/4"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	6'- 6 1/8"	1.25D + 1.5L + S	0.96	1640 lb ft	10701 lb ft	Passed - 15%
Factored Shear:	8'- 11 3/16"	1.25D + 1.5S + L	0.93	1932 lb	4150 lb	Passed - 47%
Live Load (LL) Pos. Defl.:	4'- 10 1/8"	L + 0.5S		0.021"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	4'- 10 7/8"	D + L + 0.5S		0.041"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2'-12	1.25D + 1.5L + S	0.96	528 lb		4008 lb	10139 lb	Passed - 13%
2	3'-12	1.25D + 1.5S + L	0.93	2005 lb		4095 lb	13358 lb	Passed - 49%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	9'- 3"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	8'- 4 3/4"	FC2 Floor Decking (Plan View Fill)	Top	13 lb/ft	35 lb/ft	-	-
Uniform	0'	7'- 10 3/4"	FC2 Floor Decking (Plan View Fill)	Top	4 lb/ft	-	-	-
Uniform	7'- 11 1/4"	9'- 3"	E19(i41630)	Top	101 lb/ft	-	-	-
Uniform	8'- 4 3/4"	9'- 3"	E19(i41630)	Top	27 lb/ft	-	42 lb/ft	-
Point	8'- 2 9/16"	8'- 2 9/16"	-	Back	641 lb	332 lb	360 lb	-

UNFACTORED REACTIONS

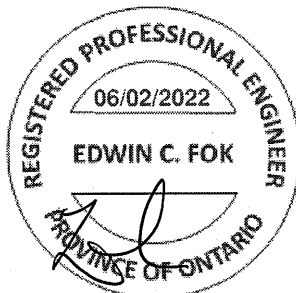
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/4"	ST. BEAM (DR.)(i41694)	167 lb	182 lb	41 lb	-
2	8'- 11 1/4"	9'- 3"	ST. BEAM (DR.)(i41693)	826 lb	442 lb	355 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SE040731



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1**
Level: **Second Floor**
Label: **B4 - i50668**
Type: **Beam**

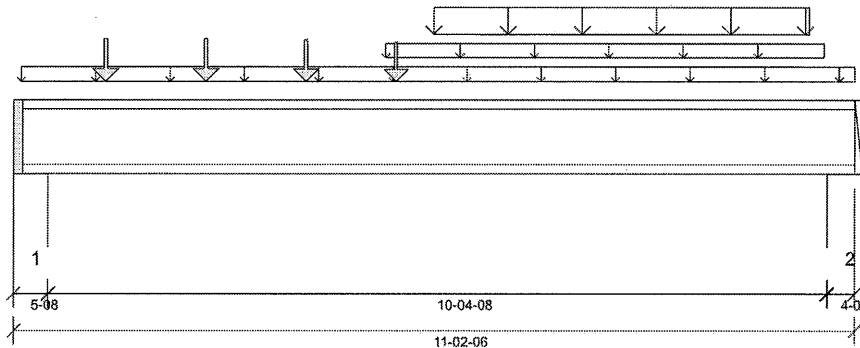
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:44



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 4 1/2"
- 615 psi Wall @ 10'- 11"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	6'- 1 1/8"	1.25D + 1.5L	1.00	6007 lb ft	11160 lb ft	Passed - 54%
Factored Shear:	10'- 9 15/16"	1.25D + 1.5L	1.00	2174 lb	4480 lb	Passed - 49%
Live Load (LL) Pos. Defl.:	5'- 7 3/4"	L		0.135"	L/360	Passed - L/920
Total Load (TL) Pos. Defl.:	5'- 7 15/16"	D + L		0.200"	L/240	Passed - L/623

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L	1.00	2156 lb		4480 lb	16918 lb	Passed - 48%
2	4-06	1.25D + 1.5L	1.00	2190 lb		4480 lb	13457 lb	Passed - 49%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	11'- 2 3/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'- 1 1/4"	11'- 2 3/8"	FC2 Floor Decking (Plan View Fill)	Top	6 lb/ft	15 lb/ft	-	-
Uniform	4'- 11 1/2"	10'- 9 1/2"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	-	-	-
Uniform	5'- 7 1/8"	10'- 7 1/8"	Smoothed Load	Front	95 lb/ft	191 lb/ft	-	-
Point	1'- 2 3/4"	1'- 2 3/4"	J2(i50710)	Front	95 lb	254 lb	-	-
Point	2'- 6 3/4"	2'- 6 3/4"	J2(i50711)	Front	95 lb	254 lb	-	-
Point	3'- 10 3/4"	3'- 10 3/4"	J2(i51034)	Front	91 lb	241 lb	-	-
Point	5'- 1 1/8"	5'- 1 1/8"	J2(i50789)	Front	93 lb	210 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	2(i41619)	469 lb	1051 lb	-	-
2	10'- 10"	11'- 2 3/8"	E13(i41622)	515 lb	1027 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SB046732



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B5 - i51035**
Type: **Beam**

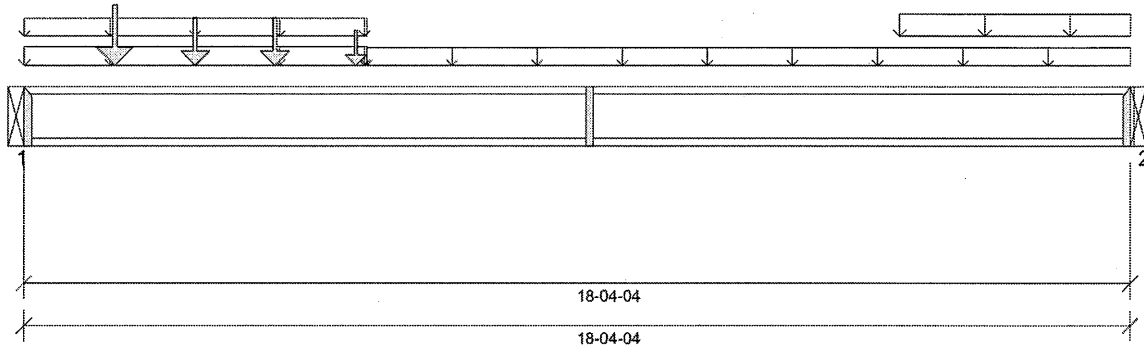
2 Ply Member
11 7/8" NI-40x

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:44



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 8'- 9 1/8"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 18'- 4 1/4"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 5 7/8"	1.25D + 1.5L	1.00	7582 lb ft	12510 lb ft	Passed - 61%
Factored Shear:	0'- 1/16"	1.25D + 1.5L	1.00	2575 lb	4680 lb	Passed - 55%
Live Load (LL) Pos. Defl.:	8'- 8 15/16"	L		0.283"	L/360	Passed - L/779
Total Load (TL) Pos. Defl.:	8'- 8"	D + L		0.476"	L/240	Passed - L/462

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	2579 lb		4020 lb	-	Passed - 64%
2	1-12	1.25D + 1.5L	1.00	1549 lb		4020 lb	-	Passed - 39%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HU312-2		-	-	-	Connector manually specified by the user.
2	HU312-2		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 4 1/4"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	5'- 8 1/4"	User Load	Top	60 lb/ft	-	-	-
Uniform	0'	5'- 8 1/4"	FC2 Floor Decking (Plan View Fill)	Top	10 lb/ft	25 lb/ft	-	-
Uniform	5'- 8 1/4"	18'- 4 1/4"	FC2 Floor Decking (Plan View Fill)	Top	11 lb/ft	29 lb/ft	-	-
Uniform	14'- 6 1/4"	18'- 4 1/4"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Point	1'- 5 7/8"	1'- 5 7/8"	J4(i50736)	Front	155 lb	317 lb	-	-
Point	2'- 9 7/8"	2'- 9 7/8"	J4(i50735)	Front	110 lb	224 lb	-	-
Point	4'- 1 7/8"	4'- 1 7/8"	J4(i50734)	Front	110 lb	224 lb	-	-
Point	5'- 6 1/16"	5'- 6 1/16"		Front	59 lb	146 lb	-	-

UNFACTORED REACTIONS

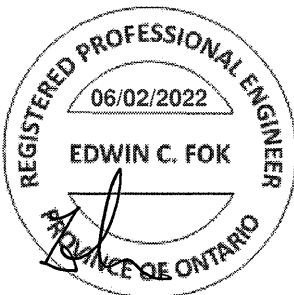
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B6(i50191)	814 lb	1040 lb	-	-
2	18'- 4 1/4"	18'- 4 1/4"	B8(i50995)	389 lb	710 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SE046733



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B6 - i50191**
Type: **Beam**

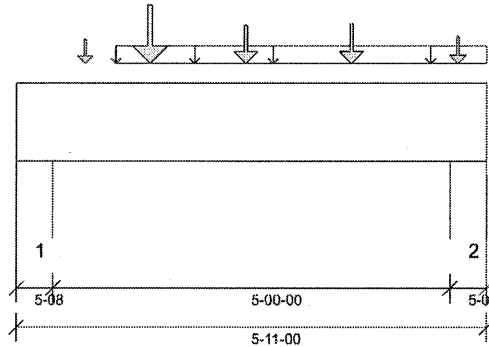
1 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:44



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 4 1/2"
- 615 psi Wall @ 5'- 6 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 10 5/8"	1.25D + 1.5L	1.00	6326 lb ft	13266 lb ft	Passed - 48%
Factored Shear:	1'- 5 3/8"	1.25D + 1.5L	1.00	4757 lb	7207 lb	Passed - 66%
Live Load (LL) Pos. Defl.:	2'- 10 7/8"	L		0.037"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	2'- 10 11/16"	D + L		0.057"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L	1.00	4798 lb		12613 lb	5921 lb	Passed - 81%
2	5-08	1.25D + 1.5L	1.00	4501 lb		12613 lb	5921 lb	Passed - 76%

SPECIFIED LOADS

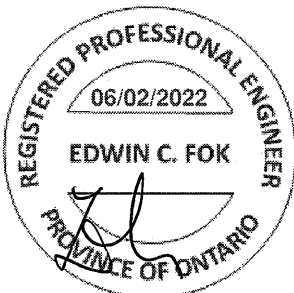
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	5'- 11"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	1'- 3"	5'- 11"	User Load	Top	60 lb/ft	-	-	-
Point	1'- 8 1/8"	1'- 8 1/8"	-	Front	958 lb	1419 lb	-	-
Point	2'- 10 5/8"	2'- 10 5/8"	-	Front	353 lb	940 lb	-	-
Point	4'- 2 5/8"	4'- 2 5/8"	-	Front	373 lb	993 lb	-	-
Point	0'- 10 3/8"	0'- 10 3/8"	J7(i50769)	Back	159 lb	375 lb	-	-
Point	5'- 6 5/8"	5'- 6 5/8"	J7(i50773)	Back	188 lb	502 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	11(i41681)	1232 lb	2094 lb	-	-
2	5'- 5 1/2"	5'- 11"	8(i41678)	1122 lb	2144 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



SEA46734



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1)**
Level: **Second Floor**
Label: **B7 - i50294**
Type: **Beam**

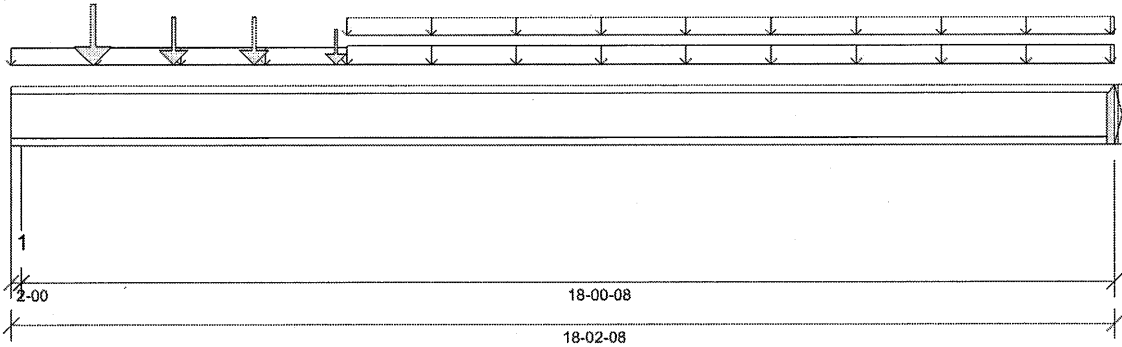
2 Ply Member
11 7/8" NI-40x

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:45



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)
Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 12'- 8"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1"
- 769 psi Beam @ 18'- 2 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	7'- 3 5/8"	1.25D + 1.5L	0.98	7739 lb ft	12220 lb ft	Passed - 63%
Factored Shear:	0'- 2 1/16"	1.25D + 1.5L	0.98	2423 lb	4572 lb	Passed - 53%
Live Load (LL) Pos. Defl.:	8'- 5 5/8"	L		0.217"	L/360	Passed - L/998
Total Load (TL) Pos. Defl.:	8'- 9 13/16"	D + L		0.503"	L/240	Passed - L/430
Permanent Deflection:	9'- 13/16"			-	L/360	Passed - L/823

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-00	1.25D + 1.5L	0.98	2438 lb		3998 lb	6009 lb	Passed - 61%
2	1-12	1.4D	0.65	980 lb		4020 lb	-	Passed - 24%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories		
			Top	Face	Member			
2	HU312-2		-	-	-	Connector manually specified by the user.		

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 2 1/2"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	5'- 6 1/2"	FC2 Floor Decking (Plan View Fill)	Top	8 lb/ft	20 lb/ft	-	-
Uniform	5'- 6 1/2"	18'- 2 1/2"	User Load	Top	60 lb/ft	-	-	-
Uniform	5'- 6 1/2"	18'- 2 1/2"	FC2 Floor Decking (Plan View Fill)	Top	9 lb/ft	24 lb/ft	-	-
Point	1'- 4 1/8"	1'- 4 1/8"	J4(i50736)	Back	157 lb	317 lb	-	-
Point	2'- 8 1/8"	2'- 8 1/8"	J4(i50735)	Back	112 lb	224 lb	-	-
Point	4'- 1/8"	4'- 1/8"	J4(i50734)	Back	112 lb	224 lb	-	-
Point	5'- 4 5/16"	5'- 4 5/16"	-	Back	59 lb	146 lb	-	-

UNFACTORED REACTIONS

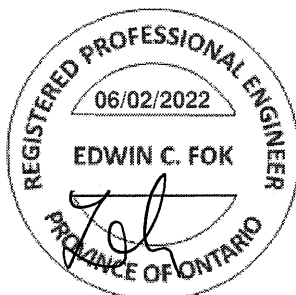
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2"	9(i41679)	781 lb	968 lb	-	-
2	18'- 2 1/2"	18'- 2 1/2"	B8(i50995)	703 lb	366 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SG046731



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

Second Floor\Flush Beams\B8(i50995) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

April 1, 2022 16:45:22

Build 8183

Job name: 45147-Model 5011

File name: 343073 Ground A + Second A (1,13).mmdl

Address: Pine Valley Ph2

Description: Second Floor\Flush Beams\B8(i50995)

City, Province, Postal Code: Vaughan, ON

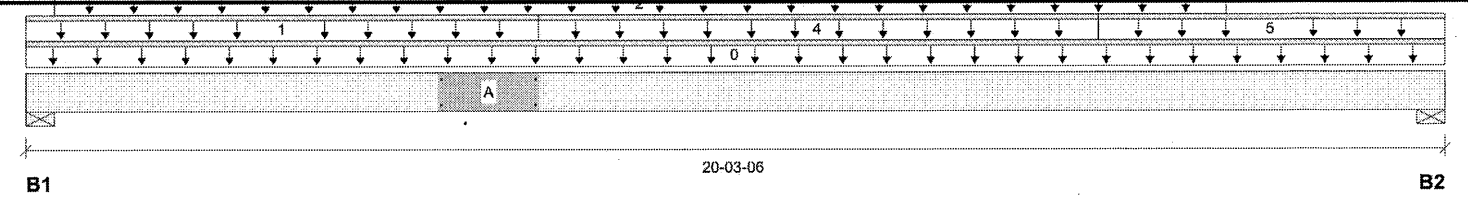
Specifier:

Customer: Gold Park Homes

Designer: TL

Code reports: CMC 12472-R

Company: Alpa Roof Trusses Inc.



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 4-3/8"	2583 / 0	2153 / 0		
B2, 5-1/2"	2617 / 0	1903 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	20-03-06	Top		18			00-00-00
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	07-03-14	Top	14	5			n/a
2	WALL	Unf. Lin. (lb/ft)	L	00-04-14	17-01-14	Top		60			n/a
3	Smoothed Load	Unf. Lin. (lb/ft)	L	00-07-04	05-07-04	Back	373	146			n/a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-03-14	15-03-14	Top	18	7			n/a
5	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	15-03-14	20-03-06	Top	14				n/a
6	Smoothed Load	Unf. Lin. (lb/ft)	L	16-01-08	20-01-08	Back	378	142			n/a
7	J7(i50782)	Conc. Pt. (lbs)	L	06-01-04	06-01-04	Back	405	158			n/a
8	B7(i50294)	Conc. Pt. (lbs)	L	07-01-06	07-01-06	Back	366	703			n/a
9	B5(i51035)	Conc. Pt. (lbs)	L	15-06-06	15-06-06	Back	710	389			n/a

Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	26055 ft-lbs	55211 ft-lbs	47.2%	1	07-01-06
End Shear	6310 lbs	21696 lbs	29.1%	1	01-04-04
Total Load Deflection	L/260 (0.905")	n/a	92.5%	4	09-11-07
Live Load Deflection	L/517 (0.455")	n/a	69.7%	5	09-11-07
Max Defl.	0.905"	n/a	n/a	4	09-11-07
Span / Depth	19.8				

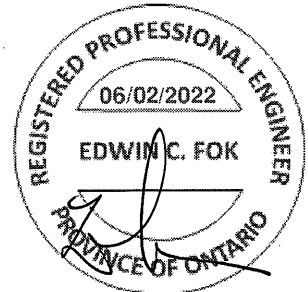
Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B1	Wall/Plate 4-3/8" x 5-1/4"	6566 lbs	46.5%	23.4%	Spruce-Pine-Fir
B2	Wall/Plate 5-1/2" x 5-1/4"	6304 lbs	35.5%	17.9%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.
 Design meets Code minimum (L/360) Live load deflection criteria.
 Resistance Factor phi has been applied to all presented results per CSA O86.
 BC CALCC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.
 Design based on Dry Service Condition.
 Importance Factor : Normal Part code : Part 9
 Calculations assume unbraced length of Top: 00-00-00, Bottom: 04-04-11.

NAIL ONE PLY TO ANOTHER WITH
 3-1/2" SPIRAL NAILS @ 6" O/C
 STAGGERED IN 2 ROWS



343073



Customer: **Gold Park Homes**
 Job Address: **Pine Valley Ph2**
 City: **Vaughan**
 Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
 Level: **Second Floor**
 Label: **B9 - i51052**
 Type: **Beam**

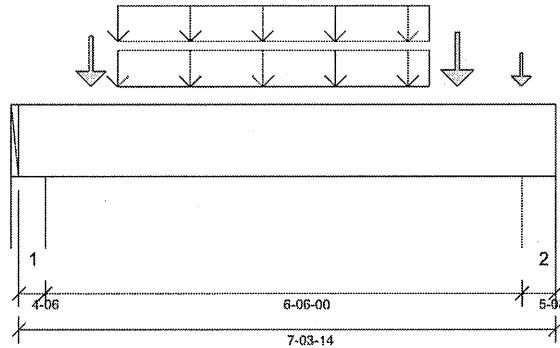
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:45



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
 ABC 2019, OBC 2012 (2019
 Amendment)

Design Methodology: LSD
 Service Condition: Dry
 LL Deflection Limit: L/360,
 TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports
 must be laterally restrained. Top and bottom edges
 of the member must be fully restrained or have the
 following maximum unbraced length:

Top: 0' Bottom: 0'- 6 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 3 3/8"
- 615 psi Wall @ 6'- 11 3/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 10 1/4"	1.25D + 1.5L	1.00	8618 lb ft	26531 lb ft	Passed - 32%
Factored Shear:	5'- 10 1/2"	1.25D + 1.5L	1.00	5248 lb	14414 lb	Passed - 36%
Live Load (LL) Pos. Defl.:	3'- 7 3/8"	L		0.045"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 7 3/8"	D + L		0.066"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	4-06	1.25D + 1.5L	1.00	4783 lb		20065 lb	9420 lb	Passed - 51%
2	5-08	1.25D + 1.5L	1.00	5272 lb		25225 lb	11843 lb	Passed - 45%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 3 7/8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	1'- 4 1/4"	5'- 7 1/4"	Smoothed Load	Back	155 lb/ft	356 lb/ft	-	-
Uniform	1'- 4 1/4"	5'- 7 1/4"	Smoothed Load	Front	157 lb/ft	348 lb/ft	-	-
Point	0'- 11 13/16"	0'- 11 13/16"	-	Front	309 lb	701 lb	-	-
Point	5'- 11 3/4"	5'- 11 3/4"	-	Front	340 lb	768 lb	-	-
Point	6'- 10 1/4"	6'- 10 1/4"	J7(i50761)	Back	165 lb	378 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 4 3/8"	E12(i41614)	1027 lb	2212 lb	-	-
2	6'- 10 3/8"	7'- 3 7/8"	9(i41679)	1210 lb	2627 lb	-	-

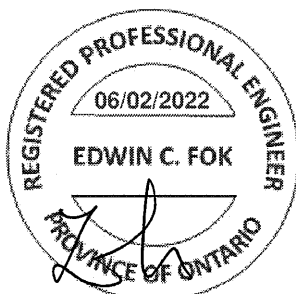
DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

NAIL ONE PLY TO ANOTHER WITH
 3-1/2" SPIRAL NAILS @ 8" O/C
 STAGGERED IN 2 ROWS



33046737



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Ground Floor**
Label: **B10 - i50605**
Type: **Beam**

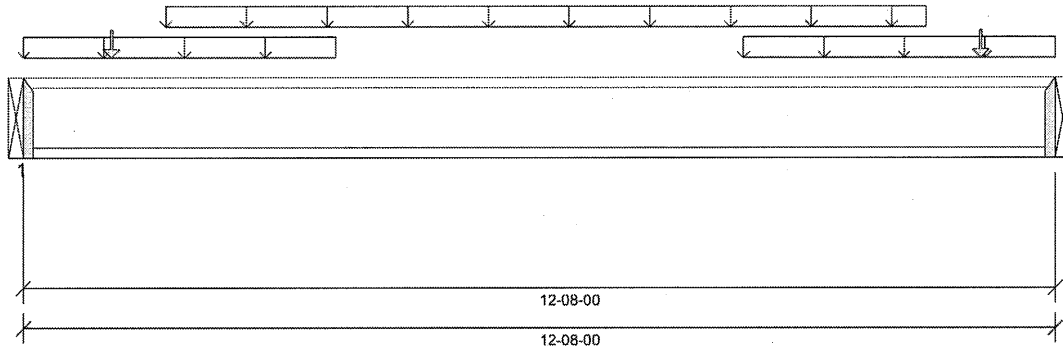
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:46



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, CBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 12'- 8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	6'- 5"	1.25D + 1.5L	1.00	4556 lb ft	5580 lb ft	Passed - 82%
Factored Shear:	12'- 7 15/16"	1.25D + 1.5L	1.00	1628 lb	2240 lb	Passed - 73%
Live Load (LL) Pos. Defl.:	6'- 4"	L		0.303"	L/360	Passed - L/502
Total Load (TL) Pos. Defl.:	6'- 4"	D + L		0.424"	L/240	Passed - L/358

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	1606 lb		1970 lb	-	Passed - 82%
2	1-12	1.25D + 1.5L	1.00	1629 lb		1970 lb	-	Passed - 83%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	LT251188		-	-	-	Connector manually specified by the user.
2	LF259		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

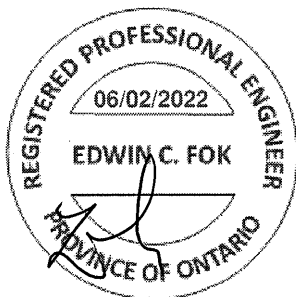
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	3'- 10"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Uniform	1'- 9"	11'- 1"	Smoothed Load	Back	31 lb/ft	83 lb/ft	-	-
Uniform	8'- 10"	12'- 8"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Point	1'- 1"	1'- 1"	J3(i51046)	Back	39 lb	103 lb	-	-
Point	11'- 9"	11'- 9"	J3(i50997)	Back	38 lb	102 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B11(i50611)	322 lb	806 lb	-	-
2	12'- 8"	12'- 8"	ST. BEAM REQ'D (FL.)(i)	324 lb	813 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



SE046728



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Ground Floor**
Label: **B11 - i50611**
Type: **Beam**

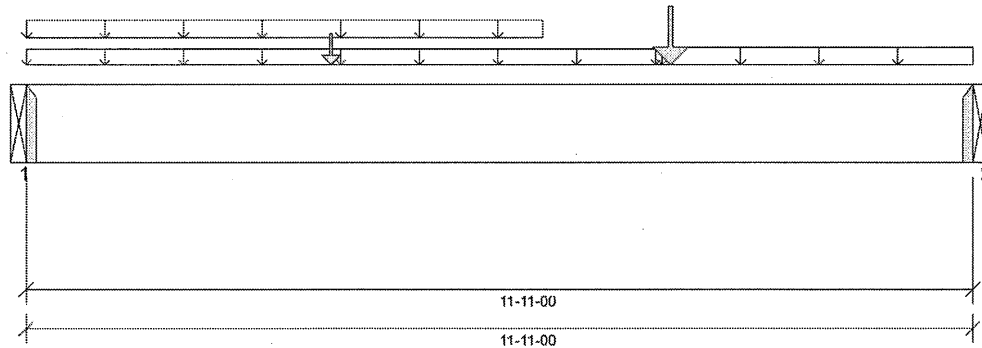
1 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:46



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 8'

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 11'- 11"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 1 1/4"	1.25D + 1.5L	1.00	6329 lb ft	13266 lb ft	Passed - 48%
Factored Shear:	10'- 11 1/8"	1.25D + 1.5L	1.00	1739 lb	7207 lb	Passed - 24%
Live Load (LL) Pos. Defl.:	6'- 2 7/16"	L		0.182"	L/360	Passed - L/785
Total Load (TL) Pos. Defl.:	6'- 1 1/4"	D + L		0.304"	L/240	Passed - L/470

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-08	1.25D + 1.5L	1.00	1573 lb		3440 lb	-	Passed - 46%
2	1-08	1.25D + 1.5L	1.00	1847 lb		3440 lb	-	Passed - 54%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HUS1.81/10		-	-	-	Connector manually specified by the user.
2	HUS1.81/10		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

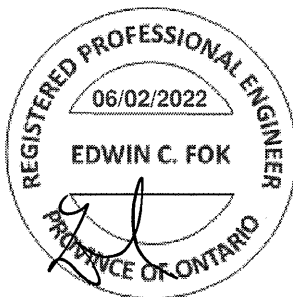
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	11'- 11"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	8'	FC1 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	0'	6'- 6"	User Load	Top	60 lb/ft	-	-	-
Uniform	8'	11'- 11"	FC1 Floor Decking (Plan View Fill)	Top	15 lb/ft	40 lb/ft	-	-
Point	8'- 1 1/4"	8'- 1 1/4"	B12(i50605)	Front	322 lb	806 lb	-	-
Point	3'- 10"	3'- 10"	User Load	Top	116 lb	308 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B12(i50218)	556 lb	595 lb	-	-
2	11'- 11"	11'- 11"	B13(i50963)	471 lb	829 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



83046739

52046740



Ground Floor\Flush Beams\B13(i50963) (Flush Beam)

BC Design Engine Member Report

Dry | 1 span | No cant.

April 1, 2022 16:47:15

Build 8183

Job name: 45147-Model 5011

File name: 343073 Ground A + Second A (1,13).mmdl

Address: Pine Valley Ph2

Description: Ground Floor\Flush Beams\B13(i50963)

City, Province, Postal Code: Vaughan, ON

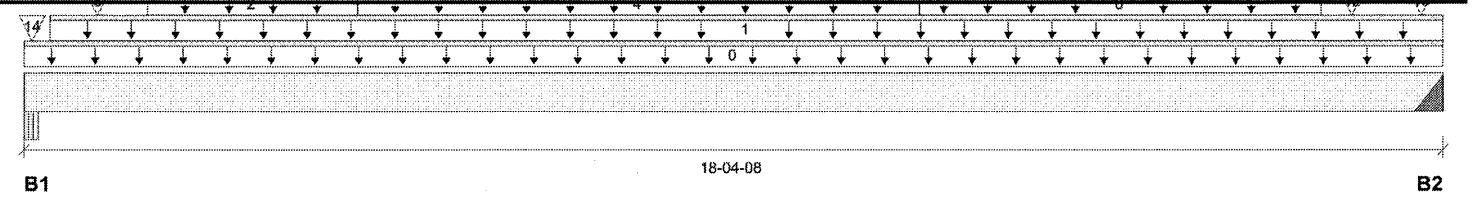
Specifier:

Customer: Gold Park Homes

Designer: TL

Code reports: CCMC 12472R

Company: Alpha Roof Trusses Inc



Total Horizontal Product Length = 18-04-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 4"	6078 / 0	3695 / 0		
B2, 2"	3013 / 0	2060 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	18-04-08	Top		24			00-00-00
1	WALL	Unf. Lin. (lb/ft)	L	00-04-00	18-04-08	Top		60			n/a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	01-07-02	04-03-12	Front	276	112			n/a
3	Smoothed Load	Unf. Lin. (lb/ft)	L	01-07-02	04-03-12	Back	228	109			n/a
4	-	Unf. Lin. (lb/ft)	L	04-03-12	11-07-02	Back	199	95			n/a
5	Smoothed Load	Unf. Lin. (lb/ft)	L	07-05-08	11-07-02	Front	83	31			n/a
6	Smoothed Load	Unf. Lin. (lb/ft)	L	11-07-02	16-09-08	Back	199	81			n/a
7	Smoothed Load	Unf. Lin. (lb/ft)	L	11-07-02	16-09-08	Front	88	33			n/a
8	-	Conc. Pt. (lbs)	L	00-11-06	00-11-06	Front	404	178			n/a
9	J1(i50682)	Conc. Pt. (lbs)	L	04-09-12	04-09-12	Front	232	94			n/a
10	B11(i50611)	Conc. Pt. (lbs)	L	05-07-10	05-07-10	Front	829	471			n/a
11	J3(i51046)	Conc. Pt. (lbs)	L	06-09-08	06-09-08	Front	107				n/a
12	-	Conc. Pt. (lbs)	L	17-02-05	17-02-05	Front	314	84			n/a
13	J2(i50410)	Conc. Pt. (lbs)	L	18-01-02	18-01-02	Back	206	84			n/a
14	8(i41678)	Conc. Pt. (lbs)	L	00-01-04	00-01-04	Top	2312	1216			n/a (TOP BOARD)

Controls Summary

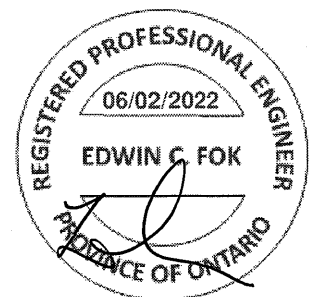
	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	35400 ft-lbs	73615 ft-lbs	48.1%	1	08-01-02
End Shear	8304 lbs	28927 lbs	28.7%	1	01-03-14
Total Load Deflection	L/285 (0.758")	n/a	84.2%	4	09-01-02
Live Load Deflection	L/479 (0.451")	n/a	75.2%	5	09-01-02
Max Defl.	0.758"	n/a	n/a	4	09-01-02
Span / Depth	18.2				

Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B1	Beam 4" x 7"	13736 lbs	79.7%	40.2%	Unspecified
B2	Hanger 2" x 7"	7094 lbs	n/a	41.5%	HGUS7.25/10

Cautions

Hanger model HGUS7.25/10 and seat length were input by the user.
adequate capacity.



CONNECT A PUY MEMBER
WITH SIMPSON SDW22624
WOOD SCREWS @ 24" O.C.,
STAGGERED IN 2 ROWS

35046741



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1**
Level: **Ground Floor**
Label: **B14 - i51051**
Type: **Beam**

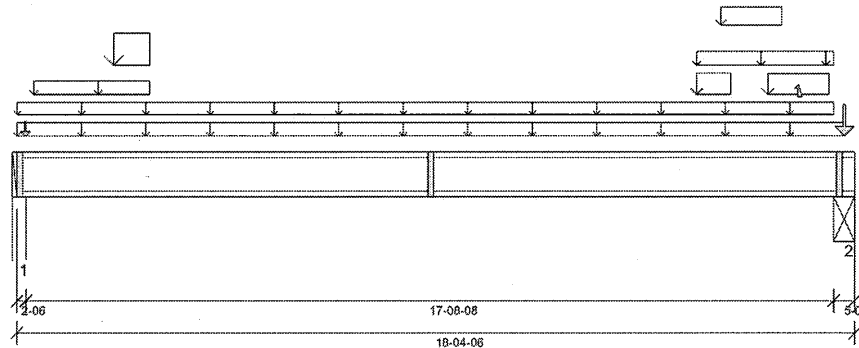
2 Ply Member
11 7/8" NI-40x

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:47



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 8'- 11 7/8"

Factored Resistance of Support Material:

- 1305 psi Wall @ 0'- 1 3/8"
- 769 psi Beam @ 17'- 11 7/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	9'- 4 1/4"	1.25D + 1.5L	1.00	6489 lb ft	12510 lb ft	Passed - 52%
Factored Shear:	17'- 10 13/16"	1.25D + 1.5L	1.00	2724 lb	4680 lb	Passed - 58%
Live Load (LL) Pos. Defl.:	9'- 1 3/8"	L		0.265"	L/360	Passed - L/803
Total Load (TL) Pos. Defl.:	9'- 1 5/16"	D + L		0.420"	L/240	Passed - L/506

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-06	1.25D + 1.5L	1.00	2066 lb		4203 lb	15500 lb	Passed - 49%
2	5-08	1.25D + 1.5L	1.00	3120 lb		4680 lb	21151 lb	Passed - 67%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 4 3/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	18'- 1 5/8"	FC1 Floor Decking (Plan View Fill)	Top	16 lb/ft	42 lb/ft	-	-
Uniform	0'	17'- 10 7/8"	FC1 Floor Decking (Plan View Fill)	Top	2 lb/ft	-	-	-
Uniform	0'- 4 3/8"	2'- 10 7/8"	13(i42108)	Top	68 lb/ft	-	-	-
Uniform	2'- 1 3/8"	2'- 10 7/8"	13(i42108)	Top	244 lb/ft	577 lb/ft	-	-
Uniform	14'- 10 7/8"	17'- 10 7/8"	14(i42109)	Top	68 lb/ft	-	-	-
Uniform	14'- 10 7/8"	15'- 7 7/8"	14(i42109)	Top	104 lb/ft	280 lb/ft	-	-
Uniform	15'- 5 1/4"	16'- 9 1/4"	14(i42109)	Top	69 lb/ft	183 lb/ft	-	-
Uniform	16'- 5 5/8"	17'- 9 5/8"	14(i42109)	Top	99 lb/ft	264 lb/ft	-	-
Point	0'- 2 3/16"	0'- 2 3/16"	E2(i41607)	Top	41 lb	-	-	-
Point	17'- 1 5/8"	17'- 1 5/8"	14(i42109)	Top	-	-1 lb	-	-
Point	18'- 1 5/8"	18'- 1 5/8"	8(i41678)	Top	93 lb	171 lb	-	-

UNFACTORED REACTIONS

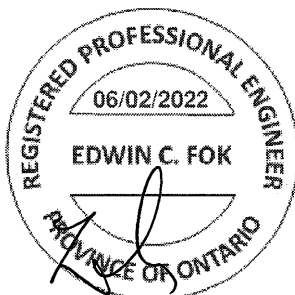
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/8"	-	624 lb	859 lb	-	-
++>	0'- 1/2"	0'- 1/2"	W3(i41588)	272 lb	374 lb	-	-
++>	0'- 11/16"	0'- 11/16"	W2(i41593)	352 lb	485 lb	-	-
2	17'- 10 7/8"	18'- 4 3/8"	ST. BEAM (DR.)(i41669)	821 lb	1394/-1 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between piles according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



83046742



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1**
Level: **Ground Floor**
Label: **B15 - i50139**
Type: **Beam**

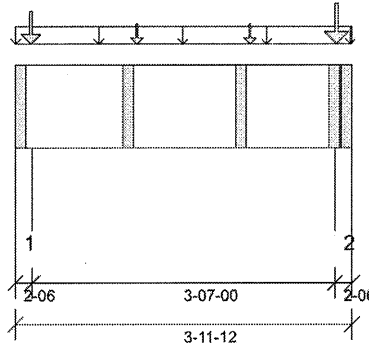
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:47



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 3/8"
- 615 psi Wall @ 3'- 10 3/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	1'- 11"	1.25D + 1.5L	0.76	236 lb ft	20271 lb ft	Passed - 1%
Factored Shear:	2'- 9 1/2"	1.25D + 1.5L	0.76	135 lb	11013 lb	Passed - 1%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-06	1.25D + 1.5L	0.76	449 lb		8322 lb	3907 lb	Passed - 11%
2	2-06	1.25D + 1.5L	0.76	561 lb		8325 lb	3908 lb	Passed - 14%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	3'- 11 3/4"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	3'- 11 3/4"	FC1 Floor Decking (Plan View Fill)	Top	10 lb/ft	28 lb/ft	-	-
Point	1'- 5 1/4"	1'- 5 1/4"	Bk1(i50585)	Back	15 lb	41 lb	-	-
Point	2'- 9 1/4"	2'- 9 1/4"	Bk1(i50664)	Back	14 lb	37 lb	-	-
Point	0'- 2 3/16"	0'- 2 3/16"	E4(i41612)	Top	182 lb	-	-	-
Point	3'- 9 9/16"	3'- 9 9/16"	E8(i41611)	Top	269 lb	-	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/8"	-	249 lb	95 lb	-	-
++>	0'- 7/16"	0'- 7/16"	W4(i41585)	84 lb	32 lb	-	-
++>	0'- 3/4"	0'- 3/4"	W5(i41583)	165 lb	63 lb	-	-
2	3'- 9 3/8"	3'- 11 3/4"	-	326 lb	98 lb	-	-
++>	3'- 10 15/16"	3'- 10 15/16"	W7(i41586)	215 lb	65 lb	-	-
++>	3'- 11 3/8"	3'- 11 3/8"	W8(i41595)	111 lb	33 lb	-	-

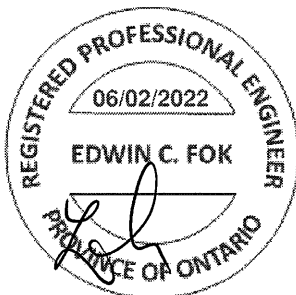
DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 6" O/C
STAGGERED IN 2 ROWS



32046743



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B16 - i52558**
Type: **Beam**

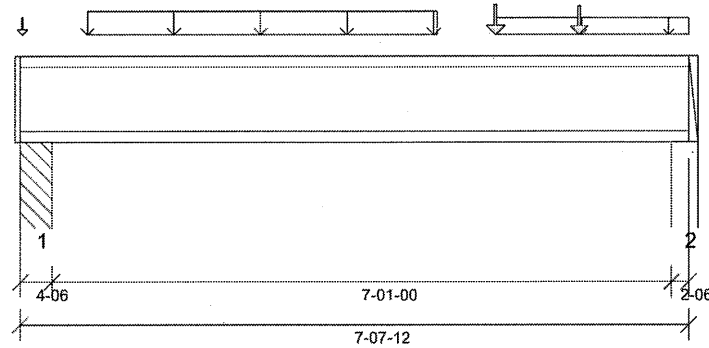
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/04/2022 09:35



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 3 3/8"
- 615 psi Wall @ 7'- 6 3/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 1 1/4"	1.25D + 1.5L	1.00	1292 lb ft	5580 lb ft	Passed - 23%
Factored Shear:	0'- 4 7/16"	1.25D + 1.5L	1.00	614 lb	2240 lb	Passed - 27%
Live Load (LL) Pos. Defl.:	3'- 10 15/16"	L		0.034"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 10 15/16"	D + L		0.047"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	4-06	1.25D + 1.5L	1.00	633 lb		2240 lb	14595 lb	Passed - 28%
2	2-06	1.25D + 1.5L	1.00	617 lb		2045 lb	3653 lb	Passed - 30%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 7 3/4"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'- 9 1/4"	4'- 9 1/4"	Smoothed Load	Front	37 lb/ft	98 lb/ft	-	-
Tapered	5'- 5 1/4"	7'- 7 3/4"	FC1 Floor Decking (Plan View Fill)	Top	4 To 2 lb/ft	11 To 6 lb/ft	-	-
Point	5'- 5 1/4"	5'- 5 1/4"	J2(i52495)	Front	40 lb	107 lb	-	-
Point	6'- 4 3/4"	6'- 4 3/4"	J2(i52472)	Front	36 lb	95 lb	-	-
Point	0'- 1/4"	0'- 1/4"	FC1 Floor Decking (Plan View Fill)	Top	4 lb	9 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 4 3/8"	P1(i52557)	130 lb	314 lb	-	-
2	7'- 5 3/8"	7'- 7 3/4"	W39(i52072)	126 lb	307 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



53046744



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B17 - i52556**
Type: **Beam**

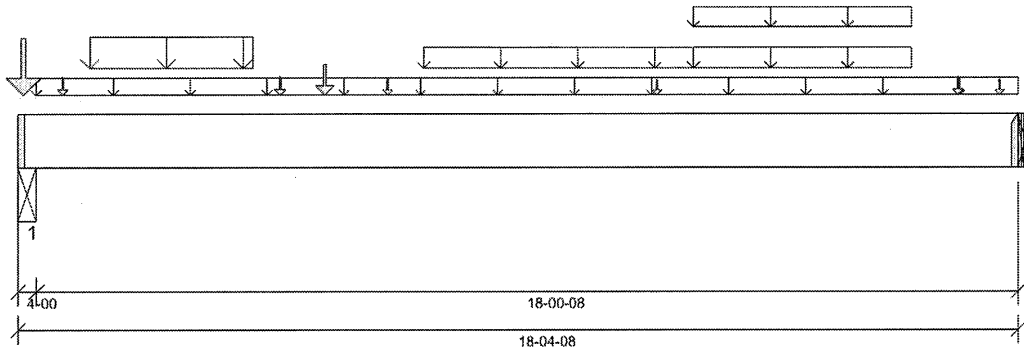
3 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/04/2022 09:35



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, CBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

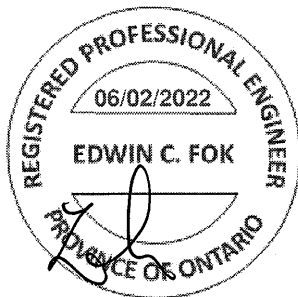
Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 3"
- 769 psi Beam @ 18'- 4 1/2"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 6" O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 1 1/2"	1.25D + 1.5L	1.00	20329 lb ft	39797 lb ft	Passed - 51%
Factored Neg. Moment:	0'- 3"	1.25D + 1.5L	1.00	726 lb ft	38704 lb ft	Passed - 2%
Factored Shear:	1'- 3 7/8"	1.25D + 1.5L	1.00	4805 lb	21621 lb	Passed - 22%
Live Load (LL) Pos. Defl.:	9'- 13/16"	L		0.434"	L/360	Passed - L/498
Total Load (TL) Pos. Defl.:	9'- 1 3/16"	D + L		0.798"	L/240	Passed - L/271
Permanent Deflection:	9'- 1 11/16"			-	L/360	Passed - L/613

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	4-00	1.25D + 1.5L	1.00	10328 lb		27519 lb	16149 lb	Passed - 64%
2	1-08	1.25D + 1.5L	1.00	4191 lb		10319 lb	-	Passed - 41%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
2	HGUS5.50/10		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 4 1/2"	Self Weight	Top	19 lb/ft	-	-	-
Uniform	0'- 4"	18'- 4 1/2"	User Load	Top	60 lb/ft	-	-	-
Uniform	1'- 3 3/4"	4'- 3 3/4"	Smoothed Load	Front	104 lb/ft	259 lb/ft	-	-
Uniform	12'- 4 7/8"	16'- 4 7/8"	Smoothed Load	Back	37 lb/ft	98 lb/ft	-	-
Uniform	12'- 4 7/8"	16'- 4 7/8"	Smoothed Load	Front	32 lb/ft	86 lb/ft	-	-
Tapered	7'- 5 1/2"	12'- 4 7/8"	Smoothed Load	Front	39 To 35 lb/ft	104 To 93 lb/ft	-	-
Point	0'- 9 3/4"	0'- 9 3/4"	J1(i52548)	Front	88 lb	218 lb	-	-
Point	4'- 9 3/4"	4'- 9 3/4"	J1(i52540)	Front	97 lb	240 lb	-	-
Point	5'- 7 5/8"	5'- 7 5/8"	B11(i52545)	Front	476 lb	842 lb	-	-
Point	6'- 9 1/2"	6'- 9 1/2"	J3(i52507)	Front	44 lb	118 lb	-	-
Point	17'- 3 1/8"	17'- 3 1/8"	-	Front	82 lb	217 lb	-	-
Point	11'- 8 7/8"	11'- 8 7/8"	J2(i52559)	Back	-	71 lb	-	-
Point	18'- 3/8"	18'- 3/8"	J2(i52472)	Back	-	86 lb	-	-
Point	0'- 1 1/4"	0'- 1 1/4"	8(i41678)	Top	1212 lb	2304 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 4"	ST. BEAM (DR.)(i41669)	2898 lb	4489 lb	-	-
2	18'- 4 1/2"	18'- 4 1/2"	ST. BEAM REQ'D (FL.)(i)	1379 lb	1627 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.

SE046745



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Second Floor**
Label: **B18 - i52915**
Type: **Beam**

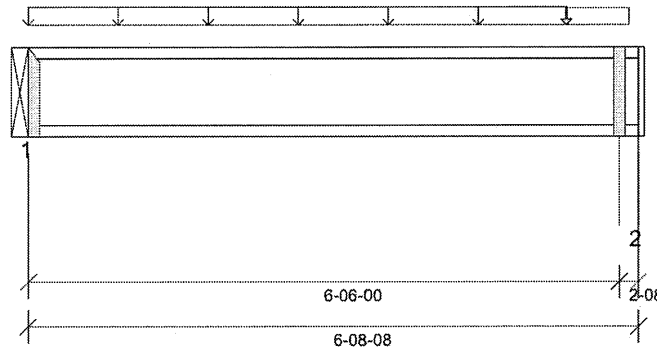
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:02



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 5'- 11"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 6'- 7"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 3 13/16"	1.25D + 1.5L	1.00	196 lb ft	5580 lb ft	Passed - 4%
Factored Shear:	0'- 1/16"	1.25D + 1.5L	1.00	118 lb	2240 lb	Passed - 5%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1'-12"	1.25D + 1.5L	1.00	118 lb		1970 lb	-	Passed - 6%
2	2'-08"	1.25D + 1.5L	1.00	118 lb		2060 lb	3845 lb	Passed - 6%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	LT251188		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

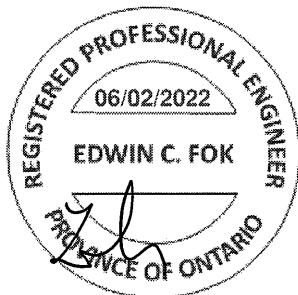
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'- 8 1/2"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	5'- 11"	FC2 Floor Decking (Plan View Fill)	Top	6 lb/ft	16 lb/ft	-	-
Uniform	5'- 11"	6'- 7 1/4"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	4 lb/ft	-	-
Point	5'- 11"	5'- 11"	FC2 Floor Decking (Plan View Fill)	Top	3 lb	9 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B20(i52942)	30 lb	54 lb	-	-
2	6'- 6"	6'- 8 1/2"	31(i52654)	30 lb	54 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



82046746



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Second Floor**
Label: **B19 - i52844**
Type: **Beam**

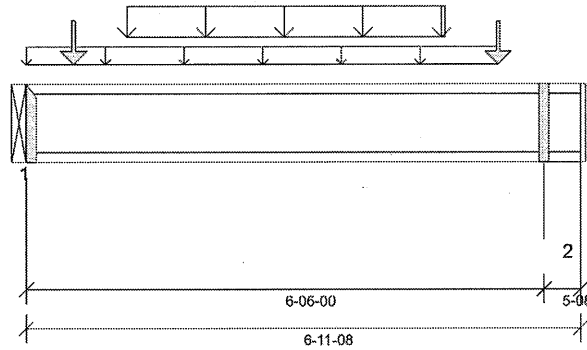
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:03



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 6'- 7"

Reinforcement Accessories Required

- Critical Reaction Web Stiffener @ 0'

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 3 1/8"	1.25D + 1.5L	1.00	3020 lb ft	5580 lb ft	Passed - 54%
Factored Shear:	0'- 1/16"	1.25D + 1.5L	1.00	1707 lb	2240 lb	Passed - 76%
Live Load (LL) Pos. Defl.:	3'- 3 1/2"	L		0.060"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 3 1/2"	D + L		0.098"	L/240	Passed - L/795

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	1707 lb		1970 lb	-	Passed - 87%
2	5-08	1.25D + 1.5L	1.00	1659 lb		2240 lb	8459 lb	Passed - 74%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	LT251188		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

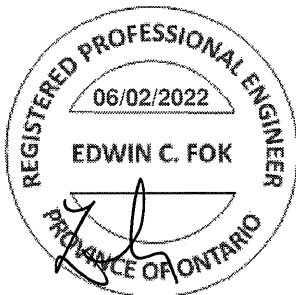
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'- 11 1/2"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	5'- 11"	24(i52019)	Top	61 lb/ft	-	-	-
Uniform	1'- 3 1/8"	5'- 3 1/8"	Smoothed Load	Back	90 lb/ft	242 lb/ft	-	-
Point	0'- 7 1/8"	0'- 7 1/8"	J1(i52862)	Back	91 lb	243 lb	-	-
Point	5'- 11 1/8"	5'- 11 1/8"	J1(i51903)	Back	88 lb	234 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B20(i52942)	482 lb	736 lb	-	-
2	6'- 6"	6'- 11 1/2"	2(i41619)	447 lb	734 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



33046747



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Second Floor**
Label: **B20 - i52942**
Type: **Beam**

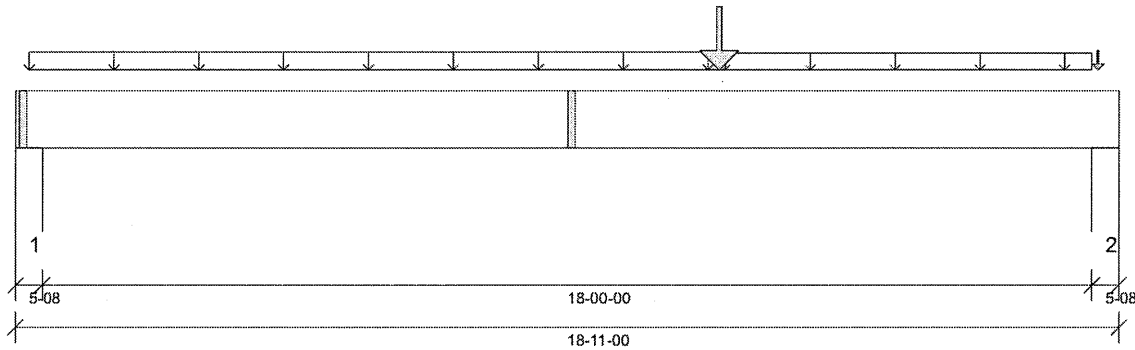
1 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:03



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 9'- 7/8"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 4 1/2"
- 615 psi Wall @ 18'- 6 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	12'- 3/4"	1.25D + 1.5L	1.00	9099 lb ft	13266 lb ft	Passed - 69%
Factored Shear:	17'- 5 5/8"	1.25D + 1.5L	1.00	1486 lb	7207 lb	Passed - 21%
Live Load (LL) Pos. Defl.:	9'- 11 1/4"	L		0.542"	L/360	Passed - L/398
Total Load (TL) Pos. Defl.:	9'- 11 5/16"	D + L		0.897"	L/240	Passed - L/240
Permanent Deflection:	9'- 11 7/16"			-	L/360	Passed - L/628

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L	1.00	1144 lb		12613 lb	5921 lb	Passed - 19%
2	5-08	1.25D + 1.5L	1.00	1662 lb		12613 lb	5921 lb	Passed - 28%

SPECIFIED LOADS

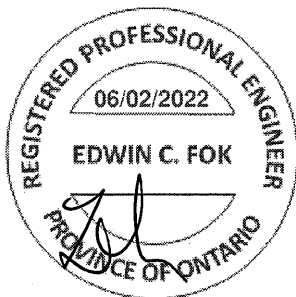
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 11"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'- 2 3/4"	12'- 2"	FC2 Floor Decking (Plan View Fill)	Top	10 lb/ft	27 lb/ft	-	-
Uniform	12'- 2"	18'- 5 1/2"	FC2 Floor Decking (Plan View Fill)	Top	6 lb/ft	15 lb/ft	-	-
Point	12'- 3/4"	12'- 3/4"	B19(i52844)	Back	482 lb	736 lb	-	-
Point	18'- 6 3/4"	18'- 6 3/4"	B18(i52915)	Back	30 lb	54 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	8(i41678)	317 lb	490 lb	-	-
2	18'- 5 1/2"	18'- 11"	27(i52155)	475 lb	720 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



83046798



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B21 - i53530**
Type: **Beam**

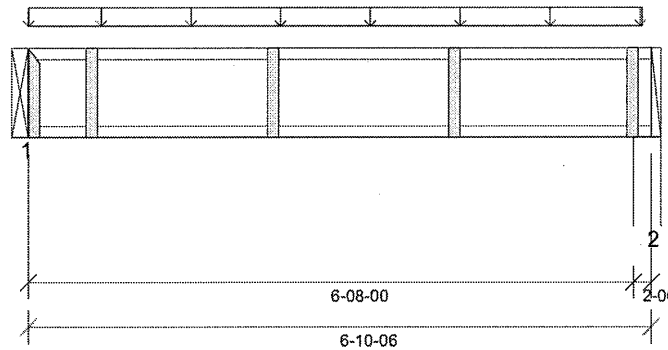
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:03



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'-9 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 6'-9"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'-4 7/16"	1.25D + 1.5L	1.00	255 lb ft	5580 lb ft	Passed - 5%
Factored Shear:	0'-1/16"	1.25D + 1.5L	1.00	154 lb	2240 lb	Passed - 7%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	154 lb		1970 lb	-	Passed - 8%
2	2-06	1.25D + 1.5L	1.00	152 lb		2045 lb	3653 lb	Passed - 7%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	LT251188		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

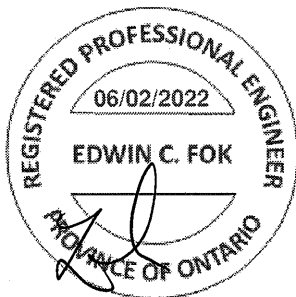
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'-10 3/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	0'-9 5/8"	FC1 Floor Decking (Plan View Fill)	Top	9 lb/ft	23 lb/ft	-	-
Uniform	0'-9 5/8"	6'-9 1/8"	FC1 Floor Decking (Plan View Fill)	Top	8 lb/ft	21 lb/ft	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B23(i53681)	37 lb	72 lb	-	-
2	6'-8"	6'-10 3/8"	W39(i52454)	36 lb	71 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
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- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



82046749



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B22 - i53703**
Type: **Beam**

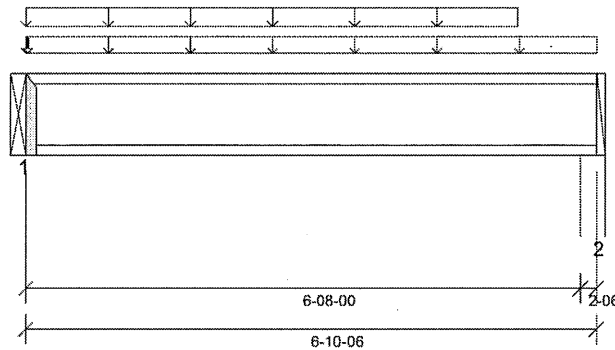
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:03



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 6'-8"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 6'-9"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'-4 1/16"	1.25D + 1.5L	0.73	707 lb ft	4046 lb ft	Passed - 17%
Factored Shear:	0'-1/16"	1.25D + 1.5L	0.73	428 lb	1624 lb	Passed - 26%
Total Load (TL) Pos. Defl.:	3'-4 3/8"	D + L		0.026"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	0.73	429 lb		1970 lb	-	Passed - 22%
2	2-06	1.25D + 1.5L	0.73	369 lb		1483 lb	2649 lb	Passed - 25%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories		
			Top	Face	Member			
1	LT251188		-	-	-	Connector manually specified by the user.		

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

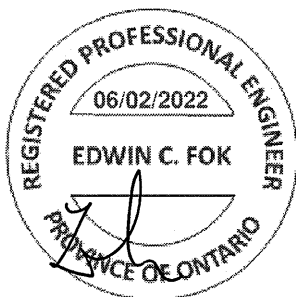
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'-10 3/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	6'-10 3/8"	FC1 Floor Decking (Plan View Fill)	Top	7 lb/ft	19 lb/ft	-	-
Uniform	0'	5'-11"	20(i52013)	Top	68 lb/ft	-	-	-
Point	0'-1/4"	0'-1/4"	FC1 Floor Decking (Plan View Fill)	Top	-	3 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B23(i53681)	263 lb	67 lb	-	-
2	6'-8"	6'-10 3/8"	W18(i41598)	214 lb	68 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
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- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



SB046750



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B23 - i53681**
Type: **Beam**

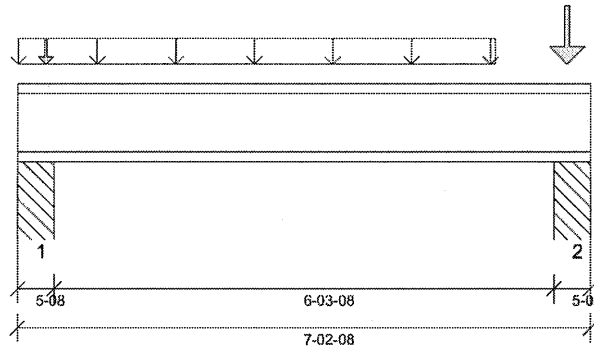
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:04



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 0'- 9 1/2"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 6'- 10"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 6 1/8"	1.25D + 1.5L	1.00	1583 lb ft	11160 lb ft	Passed - 14%
Factored Neg. Moment:	6'- 10"	1.25D + 1.5L	1.00	253 lb ft	11160 lb ft	Passed - 2%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L	1.00	1119 lb	4480 lb	Passed - 25%
Live Load (LL) Pos. Defl.:	3'- 6 3/4"	L		0.016"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 6 3/4"	D + L		0.025"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L	1.00	1558 lb		4480 lb	36688 lb	Passed - 35%
2	5-08	1.25D + 1.5L	1.00	2961 lb		4480 lb	36696 lb	Passed - 66%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 2 1/2"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'- 1/8"	6'- 1/8"	Smoothed Load	Front	73 lb/ft	150 lb/ft	-	-
Point	0'- 4 1/4"	0'- 4 1/4"	B22(i53703)	Back	263 lb	67 lb	-	-
Point	6'- 10 15/16"	6'- 10 15/16"	-	Top	602 lb	918 lb	-	-

UNFACTORED REACTIONS

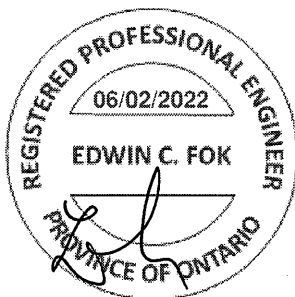
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	Pt1(i53710)	548 lb	612 lb	-	-
2	6'- 9"	7'- 2 1/2"	Pt1(i53679)	798 lb	1280 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
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- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



820046751



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B24 - i53835**
Type: **Beam**

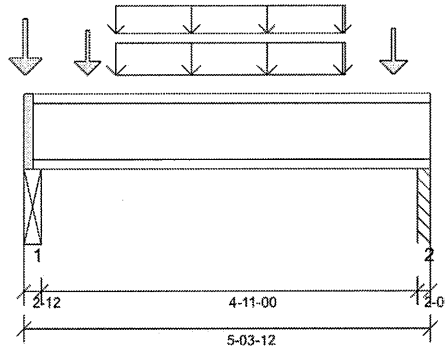
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:05



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 0'- 6 1/8"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 1334 psi Column @ 5'- 2 3/4"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 8 1/2"	1.25D + 1.5L	1.00	3057 lb ft	11160 lb ft	Passed - 27%
Factored Neg. Moment:	0'- 1 3/4"	1.25D + 1.5L	1.00	150 lb ft	11160 lb ft	Passed - 1%
Factored Shear:	5'- 1 11/16"	1.25D + 1.5L	1.00	2455 lb	4480 lb	Passed - 55%
Live Load (LL) Pos. Defl.:	2'- 8 7/16"	L		0.024"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	2'- 8 7/16"	D + L		0.036"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-12	1.25D + 1.5L	1.00	3437 lb		4180 lb	10574 lb	Passed - 82%
2	2-00	1.25D + 1.5L	1.00	2456 lb		4000 lb	13349 lb	Passed - 61%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	5'- 3 3/4"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	1'- 2 1/2"	4'- 2 1/2"	Smoothed Load	Front	124 lb/ft	260 lb/ft	-	-
Uniform	1'- 2 1/2"	4'- 2 1/2"	Smoothed Load	Back	96 lb/ft	194 lb/ft	-	-
Point	0'- 10 1/16"	0'- 10 1/16"	-	Front	198 lb	410 lb	-	-
Point	4'- 10 1/16"	4'- 10 1/16"	-	Front	208 lb	429 lb	-	-
Point	0'- 1/4"	0'- 1/4"	8(i41678)	Top	250 lb	591 lb	-	-

UNFACTORED REACTIONS

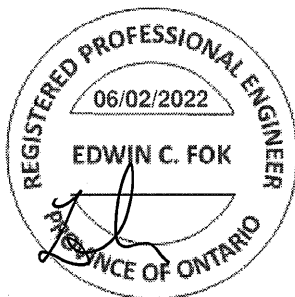
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/4"	ST. BEAM (DR.)(i41669)	753 lb	1600 lb	-	-
2	5'- 1 3/4"	5'- 3 3/4"	Pt1(i53830)	599 lb	1203 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



83046752



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B25 - i53766**
Type: **Beam**

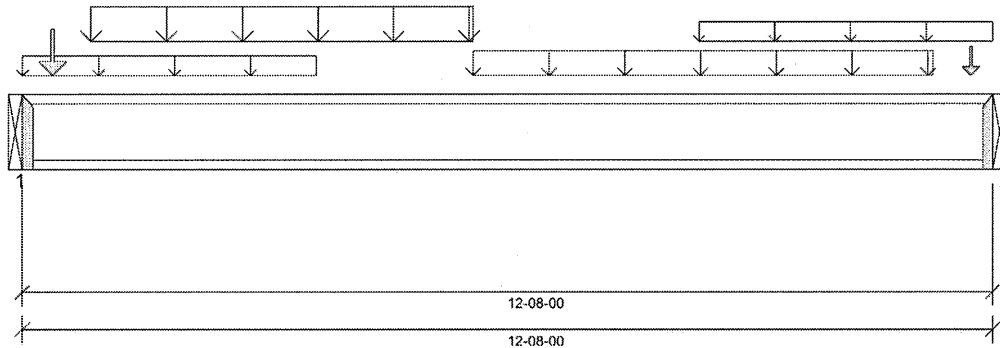
2 Ply Member
11 7/8" NI-40x

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:05



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 0'- 9 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 12'- 8"

Reinforcement Accessories Required

- Critical Reaction Web Stiffener @ 0'

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 4 5/8"	1.25D + 1.5L	1.00	10648 lb ft	12510 lb ft	Passed - 85%
Factored Shear:	0'- 1/16"	1.25D + 1.5L	1.00	4067 lb	4680 lb	Passed - 87%
Live Load (LL) Pos. Defl.:	6'- 2 3/16"	L		0.233"	L/360	Passed - L/652
Total Load (TL) Pos. Defl.:	6'- 2 3/16"	D + L		0.350"	L/240	Passed - L/434

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	4068 lb		4680 lb	-	Passed - 87%
2	1-12	1.25D + 1.5L	1.00	3114 lb		4020 lb	-	Passed - 77%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HU312-2		-	-	-	Connector manually specified by the user.
2	HU310-2		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	-0'	3'- 10"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Uniform	0'- 10 5/8"	5'- 10 5/8"	Smoothed Load	Back	146 lb/ft	294 lb/ft	-	-
Uniform	5'- 10 5/8"	11'- 10 5/8"	Smoothed Load	Back	75 lb/ft	151 lb/ft	-	-
Uniform	8'- 10"	12'- 8"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Point	0'- 4 5/8"	0'- 4 5/8"	J1(i53768)	Back	127 lb	256 lb	-	-
Point	12'- 4 5/8"	12'- 4 5/8"	J4(i53700)	Back	56 lb	115 lb	-	-

UNFACTORED REACTIONS

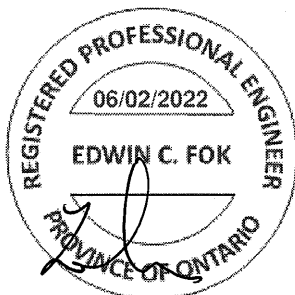
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'		B26(i53857)	950 lb	1917 lb	-	-
2	12'- 8"	12'- 8"	ST. BEAM REQ'D (FL.)()	729 lb	1472 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.
- This member exceeded the 8" limit for no web stiffener support, only web stiffener support design was considered for this member.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



83046753



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B26 - i53857**
Type: **Beam**

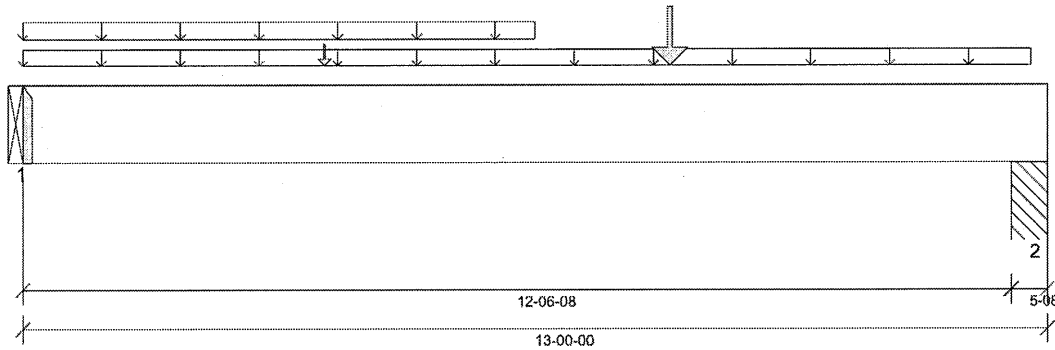
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:05



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 8'

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 1334 psi Column @ 12'- 7 1/2"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 12" O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 2 1/2"	1.25D + 1.5L	1.00	14108 lb ft	26531 lb ft	Passed - 53%
Factored Shear:	11'- 6 5/8"	1.25D + 1.5L	1.00	3275 lb	14414 lb	Passed - 23%
Live Load (LL) Pos. Defl.:	6'- 8 1/16"	L		0.207"	L/360	Passed - L/728
Total Load (TL) Pos. Defl.:	6'- 7 5/16"	D + L		0.340"	L/240	Passed - L/443

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-08	1.25D + 1.5L	1.00	2552 lb		6880 lb	-	Passed - 37%
2	5-08	1.25D + 1.5L	1.00	3366 lb		25225 lb	25688 lb	Passed - 13%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HGUS410		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	13'	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	8'	FC1 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	-0'	6'- 6"	User Load	Top	60 lb/ft	-	-	-
Uniform	8'	12'- 9 1/2"	FC1 Floor Decking (Plan View Fill)	Top	10 lb/ft	26 lb/ft	-	-
Point	8'- 2 1/2"	8'- 2 1/2"	B25(i53766)	Front	950 lb	1917 lb	-	-
Point	3'- 10"	3'- 10"	User Load	Top	116 lb	308 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B27(i53844)	852 lb	1037 lb	-	-
2	12'- 6 1/2"	13'	P1(i53830)	893 lb	1454 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

830467584



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A...**
Level: **Ground Floor**
Label: **B27 - i53844**
Type: **Beam**

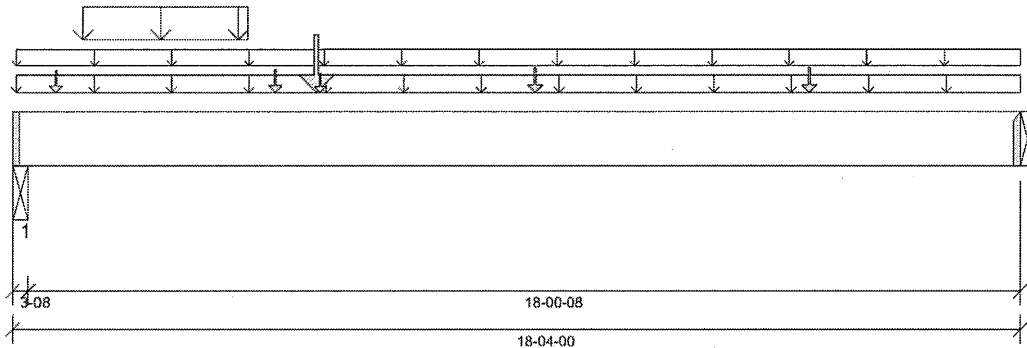
3 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 10:06



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

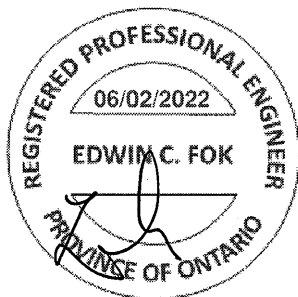
Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 12'- 8"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 2 1/2"
- 769 psi Beam @ 18'- 4"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 6" O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 7 1/8"	1.25D + 1.5L	1.00	23515 lb ft	39797 lb ft	Passed - 59%
Factored Shear:	1'- 3 3/8"	1.25D + 1.5L	1.00	5532 lb	21621 lb	Passed - 26%
Live Load (LL) Pos. Defl.:	8'- 9"	L		0.447"	L/360	Passed - L/484
Total Load (TL) Pos. Defl.:	8'- 9 3/4"	D + L		0.873"	L/240	Passed - L/247
Permanent Deflection:	8'- 10 9/16"			-	L/360	Passed - L/523

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	3-08	1.25D + 1.5L	1.00	6193 lb		24079 lb	14130 lb	Passed - 44%
2	1-08	1.25D + 1.5L	1.00	3520 lb		10319 lb	-	Passed - 34%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
2	HGUS5,50/10		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	18'- 4"	Self Weight	Top	19 lb/ft	-	-	-
Uniform	0'- 3/4"	18'- 4"	User Load	Top	60 lb/ft	-	-	-
Uniform	0'- 3/4"	5'- 8"	FC1 Floor Decking (Plan View Fill)	Top	9 lb/ft	24 lb/ft	-	-
Uniform	1'- 3 1/4"	4'- 3 1/4"	Smoothed Load	Back	125 lb/ft	260 lb/ft	-	-
Uniform	5'- 8"	18'- 4"	FC1 Floor Decking (Plan View Fill)	Top	11 lb/ft	29 lb/ft	-	-
Point	0'- 9 1/4"	0'- 9 1/4"	J2(i53846)	Back	104 lb	217 lb	-	-
Point	4'- 9 1/4"	4'- 9 1/4"	J2(i53855)	Back	114 lb	240 lb	-	-
Point	5'- 6 1/4"	5'- 6 1/4"	B26(i53857)	Back	852 lb	1037 lb	-	-
Point	5'- 7 1/8"	5'- 7 1/8"	User Load	Top	56 lb	148 lb	-	-
Point	9'- 6"	9'- 6"	User Load	Top	127 lb	339 lb	-	-
Point	14'- 6"	14'- 6"	User Load	Top	127 lb	339 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 3 1/2"	ST. BEAM (DR.)(i41668)	2077 lb	2383 lb	-	-
2	18'- 4"	18'- 4"	ST. BEAM REQ'D (FL.)(i)	1354 lb	1233 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

83046755



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Elevator W...**
Level: **Ground Floor**
Label: **B28 - i54872**
Type: **Beam**

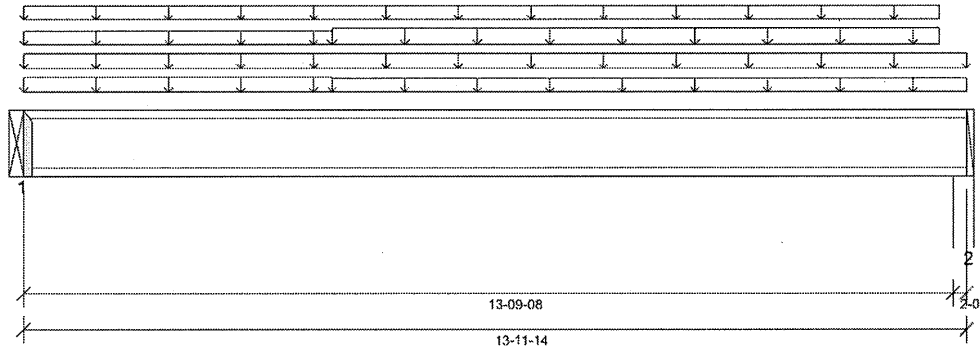
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 11:37



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 13'-9 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 615 psi Wall @ 13'-10 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	7'- 2"	1.25D + 1.5L	0.86	2869 lb ft	4816 lb ft	Passed - 60%
Factored Shear:	13'- 9 7/16"	1.4D	0.65	641 lb	1456 lb	Passed - 44%
Live Load (LL) Pos. Defl.:	6'- 9 3/4"	L		0.100"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	7'- 1/8"	D + L		0.327"	L/240	Passed - L/505
Permanent Deflection:	7'- 1 3/16"			-	L/360	Passed - L/812

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	0.86	771 lb		1970 lb	-	Passed - 39%
2	2-06	1.4D	0.65	646 lb		1329 lb	2375 lb	Passed - 49%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories	
			Top	Face	Member		
1	LT251188		-	-	-	Connector manually specified by the user.	

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	13'- 11 7/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	13'- 11 7/8"	FC1 Floor Decking (Plan View Fill)	Top	7 lb/ft	19 lb/ft	-	-
Uniform	0'	13'- 7"	FC1 Floor Decking (Plan View Fill)	Top	2 lb/ft	-	-	-
Uniform	0'	4'- 7"	FC1 Floor Decking (Plan View Fill)	Top	8 lb/ft	21 lb/ft	-	-
Uniform	0'	4'- 7"	FC1 Floor Decking (Plan View Fill)	Top	3 lb/ft	-	-	-
Uniform	4'- 7"	13'- 11 7/8"	FC1 Floor Decking (Plan View Fill)	Top	2 lb/ft	4 lb/ft	-	-
Uniform	4'- 7"	13'- 7"	User Load	Top	60 lb/ft	-	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B29(i54870)	321 lb	242 lb	-	-
2	13'- 9 1/2"	13'- 11 7/8"	W43(i54814)	467 lb	178 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



SE046786



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Elevator W..**
Level: **Ground Floor**
Label: **B29 - i54870**
Type: **Beam**

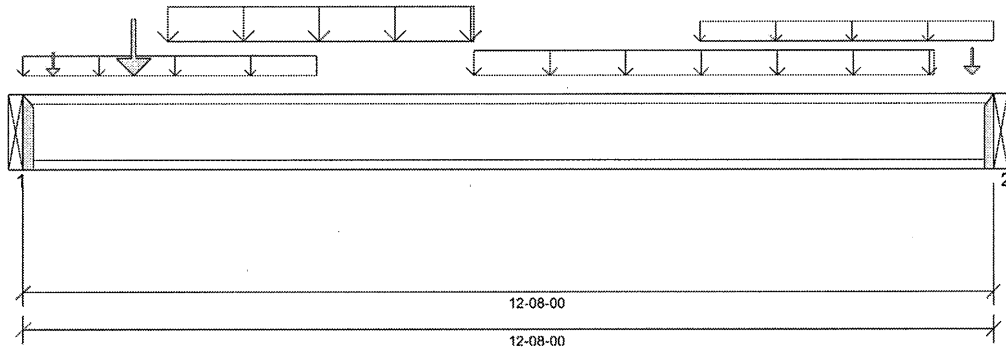
2 Ply Member
11 7/8" NI-40x

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 11:38



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, CBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 0'- 10 1/8"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 12'- 8"

Reinforcement Accessories Required

- Critical Reaction Web Stiffener @ 0'

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 4 5/8"	1.25D + 1.5L	1.00	10679 lb ft	12510 lb ft	Passed - 85%
Factored Shear:	0'- 1/16"	1.25D + 1.5L	1.00	3819 lb	4680 lb	Passed - 82%
Live Load (LL) Pos. Defl.:	6'- 2 5/16"	L		0.229"	L/360	Passed - L/664
Total Load (TL) Pos. Defl.:	6'- 2 1/8"	D + L		0.352"	L/240	Passed - L/431

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-12	1.25D + 1.5L	1.00	3820 lb		4680 lb	-	Passed - 82%
2	1-12	1.25D + 1.5L	1.00	3118 lb		4020 lb	-	Passed - 78%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HU312-2		-	-	-	Connector manually specified by the user.
2	HU310-2		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	-0'	3'- 10"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Uniform	1'- 10 5/8"	5'- 10 5/8"	Smoothed Load	Back	145 lb/ft	292 lb/ft	-	-
Uniform	5'- 10 5/8"	11'- 10 5/8"	Smoothed Load	Back	75 lb/ft	151 lb/ft	-	-
Uniform	8'- 10"	12'- 8"	User Load	Top	32 lb/ft	84 lb/ft	-	-
Point	0'- 4 5/8"	0'- 4 5/8"	J4(i55029)	Back	41 lb	82 lb	-	-
Point	1'- 5 1/4"	1'- 5 1/4"	B28(i54872)	Back	321 lb	242 lb	-	-
Point	12'- 4 5/8"	12'- 4 5/8"	J3(i55082)	Back	56 lb	115 lb	-	-

UNFACTORED REACTIONS

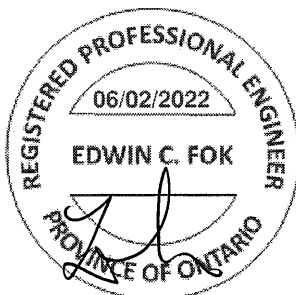
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B30(i54871)	1019 lb	1694 lb	-	-
2	12'- 8"	12'- 8"	ST. BEAM REQ'D (FL.)(I)	746 lb	1461 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SG046757



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Elevator W...**
Level: **Ground Floor**
Label: **B30 - i54871**
Type: **Beam**

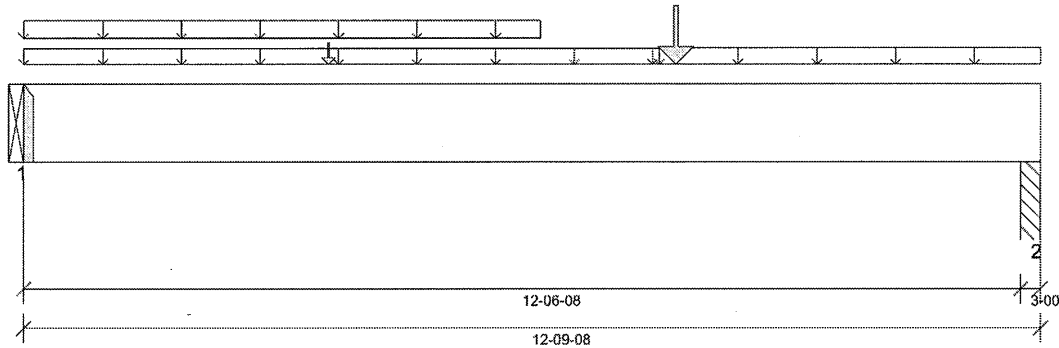
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 11:38



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

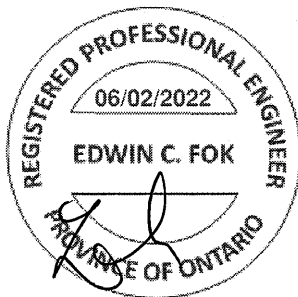
Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 8'

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 1334 psi Column @ 12'- 7 1/2"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 12" O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 2 1/2"	1.25D + 1.5L	1.00	13394 lb ft	26531 lb ft	Passed - 50%
Factored Shear:	11'- 6 5/8"	1.25D + 1.5L	1.00	3114 lb	14414 lb	Passed - 22%
Live Load (LL) Pos. Defl.:	6'- 7 7/8"	L		0.187"	L/360	Passed - L/803
Total Load (TL) Pos. Defl.:	6'- 7 3/16"	D + L		0.326"	L/240	Passed - L/461

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-08	1.25D + 1.5L	1.00	2465 lb		6880 lb	-	Passed - 36%
2	3-00	1.25D + 1.5L	1.00	3213 lb		13759 lb	14011 lb	Passed - 23%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories	
			Top	Face	Member		
1	HGUS410		-	-	-	Connector manually specified by the user.	

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 9 1/2"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	8'	FC1 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	-0'	6'- 6"	User Load	Top	60 lb/ft	-	-	-
Uniform	8'	12'- 9 1/2"	FC1 Floor Decking (Plan View Fill)	Top	10 lb/ft	26 lb/ft	-	-
Point	8'- 2 1/2"	8'- 2 1/2"	B29(i54870)	Front	1019 lb	1694 lb	-	-
Point	3'- 10"	3'- 10"	User Load	Top	116 lb	308 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B27(i54873)	877 lb	955 lb	-	-
2	12'- 6 1/2"	12'- 9 1/2"	P11(i54868)	937 lb	1319 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

860246758



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A W Elevator W...**
Level: **Ground Floor**
Label: **B31 (CANT.) - i54869**
Type: **Beam**

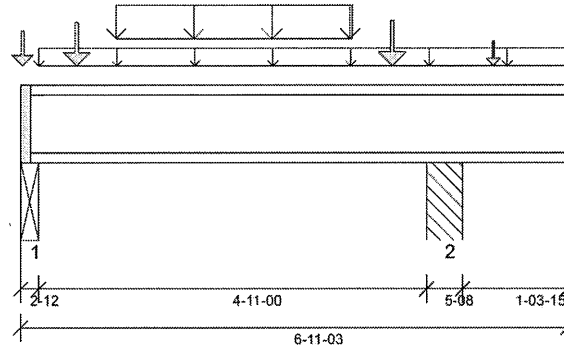
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/05/2022 11:39



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240.

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 0'- 10 1/16"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 1334 psi Column @ 5'- 4 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 8 1/2"	1.25D + 1.5L	1.00	2105 lb ft	5580 lb ft	Passed - 38%
Factored Neg. Moment:	5'- 4 1/2"	1.25D + 1.5L	0.65	195 lb ft	3627 lb ft	Passed - 5%
Factored Shear:	0'- 2 13/16"	1.25D + 1.5L	1.00	1523 lb	2240 lb	Passed - 68%
Live Load (LL) Pos. Defl.:	2'- 9 3/16"	L		0.031"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	2'- 9"	D + L		0.052"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-12	1.25D + 1.5L	1.00	1857 lb		2090 lb	5287 lb	Passed - 89%
2	5-08	1.25D + 1.5L	1.00	1821 lb		5070 lb	18348 lb	Passed - 36%

SPECIFIED LOADS

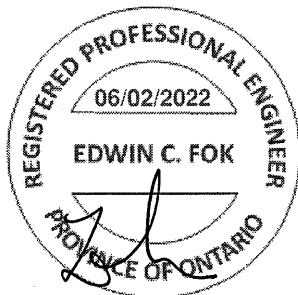
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'- 11 3/16"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'- 2 3/4"	6'- 11 3/16"	User Load	Top	60 lb/ft	-	-	-
Uniform	1'- 2 1/2"	4'- 2 1/2"	Smoothed Load	Front	127 lb/ft	264 lb/ft	-	-
Point	0'- 8 1/2"	0'- 8 1/2"	J2(i54981)	Front	106 lb	223 lb	-	-
Point	4'- 8 1/2"	4'- 8 1/2"	J2(i54998)	Front	114 lb	238 lb	-	-
Point	5'- 11 7/8"	5'- 11 7/8"	J4(i55029)	Front	38 lb	76 lb	-	-
Point	0'- 1/4"	0'- 1/4"	g(i41678)	Top	74 lb	160 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/4"	ST. BEAM (DR.)(i41669)	523 lb	803/-9 lb	-	-
2	5'- 1 3/4"	5'- 7 1/4"	Pt1(i54868)	615 lb	701 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



56041759



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground B + Second B (5,**
Level: **Second Floor**
Label: **B32 - i52156**
Type: **Beam**

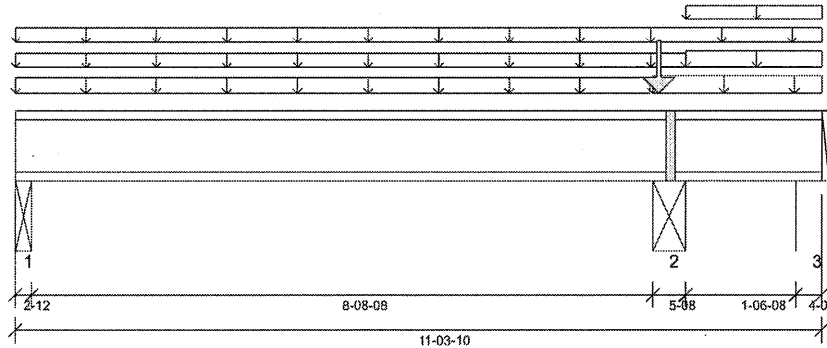
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/06/2022 08:36



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 8'- 8 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 769 psi Beam @ 9'- 2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 8 3/4"	1.25D + 1.5L	0.85	934 lb ft	9506 lb ft	Passed - 10%
Factored Neg. Moment:	9'- 2"	1.25D + 1.5L	0.85	1338 lb ft	9506 lb ft	Passed - 14%
Factored Shear:	9'- 4 13/16"	1.25D + 1.5L	0.65	669 lb	2912 lb	Passed - 23%
Total Load (TL) Pos. Defl.:	4'- 1 3/4"	D + L		0.022"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-12	1.25D + 1.5L	0.85	543 lb		3561 lb	9007 lb	Passed - 15%
2	5-08	1.25D + 1.5L	0.85	2492 lb		8637 lb	18014 lb	Passed - 29%
3	4-06	1.25D + 1.5L	0.85		-499 lb	-	-	

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	11'- 3 5/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	11'- 3 5/8"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	20 lb/ft	-	-
Uniform	0'	9'- 4 3/4"	FC2 Floor Decking (Plan View Fill)	Top	5 lb/ft	12 lb/ft	-	-
Uniform	0'	8'- 10 3/4"	User Load	Top	60 lb/ft	-	-	-
Uniform	8'- 11 1/4"	11'- 3 5/8"	E45(i52080)	Top	101 lb/ft	-	-	-
Uniform	9'- 4 3/4"	11'- 3 5/8"	E45(i52080)	Top	27 lb/ft	42 lb/ft	-	-
Uniform	9'- 4 3/4"	11'- 3 5/8"	FC2 Floor Decking (Plan View Fill)	Top	-	8 lb/ft	-	-
Point	9'- 1/4"	9'- 1/4"	E45(i52080)	Top	231 lb	350 lb	-	-

UNFACTORED REACTIONS

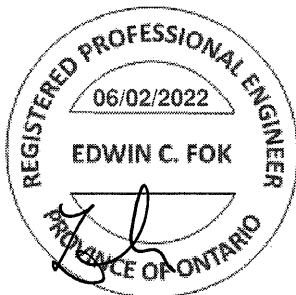
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/4"	ST. BEAM (DR.)(i41694)	286 lb	119 lb	-	-
2	8'- 11 1/4"	9'- 4 3/4"	ST. BEAM (DR.)(i41693)	1147 lb	729 lb	-	-
3	10'- 11 1/4"	11'- 3 5/8"	E9(i41609)	-171 lb	79/-143 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SZ046760



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground B + Second B (5,**
Level: **Second Floor**
Label: **B33 - i52169**
Type: **Beam**

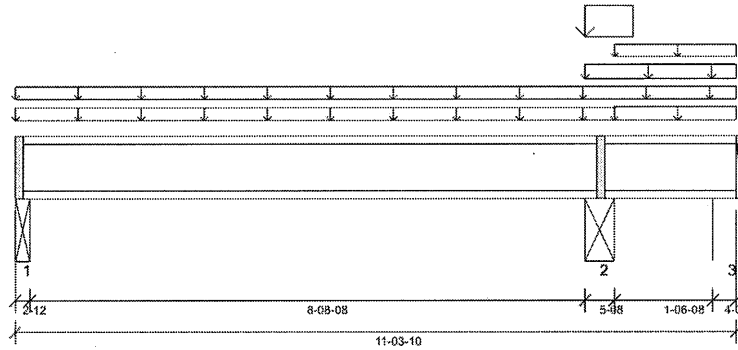
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/06/2022 08:41



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 8'- 8 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 769 psi Beam @ 9'- 2"
- 615 psi Wall @ 11'- 1/4"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 8 1/2"	1.25D + 1.5L	0.91	564 lb ft	10113 lb ft	Passed - 6%
Factored Neg. Moment:	9'- 2"	1.25D + 1.5L	0.91	797 lb ft	10113 lb ft	Passed - 8%
Factored Shear:	9'- 4 13/16"	1.25D + 1.5L	1.00	862 lb	4480 lb	Passed - 19%
Total Load (TL) Pos. Defl.:	4'- 1 1/2"	D + L		0.012"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	2-12	1.25D + 1.5L	0.91	330 lb		3788 lb	9582 lb	Passed - 9%
2	5-08	1.25D + 1.5L	1.00	1933 lb		10140 lb	21147 lb	Passed - 19%
3	4-06	1.25D + 1.5L	0.86	285 lb		3831 lb	11508 lb	Passed - 7%
3	4-06	0.9D + 1.5L	0.91		-211 lb	-	-	

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	11'- 3 5/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	11'- 3 5/8"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	0'	9'- 4 3/4"	FC2 Floor Decking (Plan View Fill)	Top	9 lb/ft	23 lb/ft	-	-
Uniform	8'- 11 1/4"	11'- 3 5/8"	E47(i52083)	Top	101 lb/ft	-	-	-
Uniform	8'- 11 1/4"	9'- 8 1/4"	E47(i52083)	Top	308 lb/ft	467 lb/ft	-	-
Uniform	9'- 4 3/4"	11'- 3 5/8"	E47(i52083)	Top	27 lb/ft	42 lb/ft	-	-
Uniform	9'- 4 3/4"	11'- 3 5/8"	FC2 Floor Decking (Plan View Fill)	Top	-	8 lb/ft	-	-

UNFACTORED REACTIONS

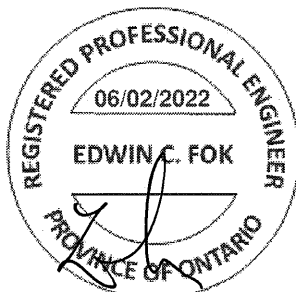
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/4"	ST. BEAM (DR.)(i41694)	79 lb	156/-1 lb	-	-
2	8'- 11 1/4"	9'- 4 3/4"	ST. BEAM (DR.)(i41693)	570 lb	787 lb	-	-
3	10'- 11 1/4"	11'- 3 5/8"	E9(i41609)	104 lb	113/-190 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SZ04676 |



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (9,**
Level: **Second Floor**
Label: **B34 - i56510**
Type: **Beam**

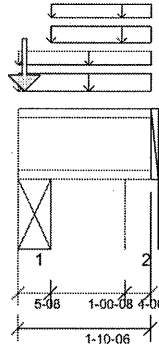
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/07/2022 08:46



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 4 1/2"
- 615 psi Wall @ 1'- 7"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Neg. Moment:	0'- 4 1/2"	1.25D + 1.5S	1.00	355 lb ft	11106 lb ft	Passed - 3%
Factored Moment:	0'- 4 1/2"	1.25D + 1.5S	1.00	355 lb ft	11106 lb ft	Passed - 3%
Factored Moment:				0 lb ft	0 lb ft	
Factored Moment:				0 lb ft	0 lb ft	
Factored Shear:	0'- 5 9/16"	1.25D + 1.5S + L	1.00	417 lb	4480 lb	Passed - 9%
Live Load (LL) Deflection:	0'- 10 9/16"	S		0.000"	L/360	Passed - L/999
Total Load (TL) Deflection:	0'- 10 3/8"	D + S		0.000"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5S + L	1.00	1667 lb		4480 lb	21147 lb	Passed - 37%
2	4-06	1.25D + 1.5L	0.65	77 lb		2912 lb	13392 lb	Passed - 3%
2	4-06	0.9D + 1.5S	1.00		-89 lb	-	-	

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	1'- 10 3/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	1'- 10 3/8"	E45(i55511)	Top	101 lb/ft	-	-	-
Uniform	0'	1'- 10 3/8"	FC2 Floor Decking (Plan View Fill)	Top	-	8 lb/ft	-	-
Uniform	0'- 5 1/2"	1'- 10 3/8"	E45(i55511)	Top	27 lb/ft	-	42 lb/ft	-
Uniform	0'- 5 1/2"	1'- 10 3/8"	FC2 Floor Decking (Plan View Fill)	Top	-	8 lb/ft	-	-
Point	0'- 1"	0'- 1"	E45(i55511)	Top	334 lb	-	510 lb	-

UNFACTORED REACTIONS

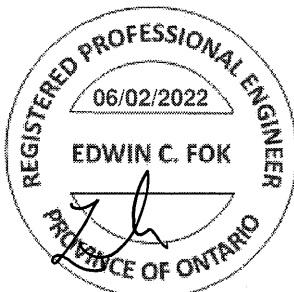
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	ST. BEAM (DR.) (i41693)	550 lb	13 lb	670 lb	-
2	1'- 6"	1'- 10 3/8"	E9(i41609)	32 lb	16 lb	-101 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.



SE046762



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (9,**
Level: **Second Floor**
Label: **B35 (CONT.) - i57825**
Type: **Beam**

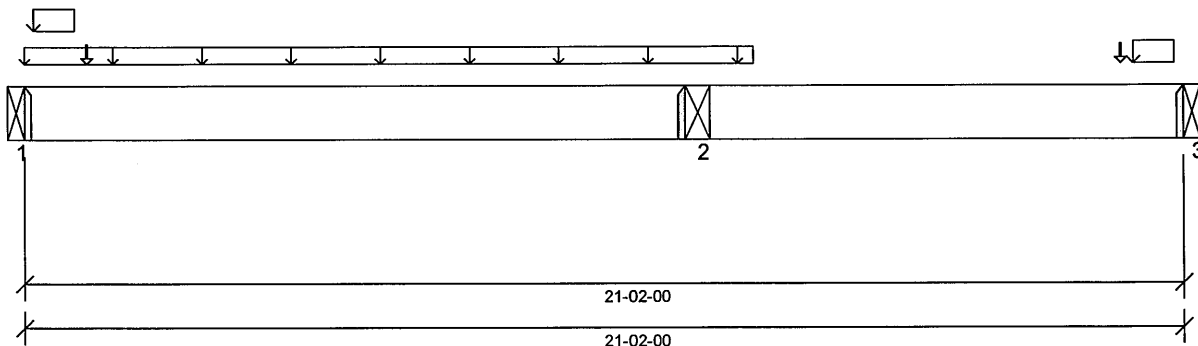
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 06/02/2022 13:13



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 1305 psi Beam @ 12'- 1 3/4"
- 769 psi Beam @ 21'- 2"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 12" O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 6 7/8"	1.25D + 1.5L	0.65	384 lb ft	17245 lb ft	Passed - 2%
Factored Neg. Moment:	12'- 1 3/4"	1.25D + 1.5L	0.65	413 lb ft	17045 lb ft	Passed - 2%
Factored Shear:	11'- 5/8"	1.25D + 1.5L	0.65	180 lb	9369 lb	Passed - 2%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-08	1.25D + 1.5L	0.65	262 lb		4472 lb	-	Passed - 6%
2	2-08	1.25D + 1.5L	0.65	352 lb		7453 lb	7422 lb	Passed - 5%
3	1-08	1.4D	0.65	179 lb		4472 lb	-	Passed - 4%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	HUC410		-	-	-	Connector manually specified by the user.
2	No Solution	Not Specified	N/A	N/A	N/A	Connector manually specified by the user.
3	HUC410		-	-	-	Connector manually specified by the user.

* Connectors: Refer to manufacturer's specifications, fasteners requirements and installation instruction. Where header fasteners are longer than the width of the supporting member, install backer block or clinch header nails.

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	-0'	21'- 2"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	-0'	13'- 3 3/4"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	6 lb/ft	-	-
Uniform	0'- 2"	0'- 11"	E53(i55516)	Top	101 lb/ft	-	-	-
Uniform	20'- 3"	21'	E50(i55515)	Top	101 lb/ft	-	-	-
Point	1'- 1 3/4"	1'- 1 3/4"	E54(i55518)	Top	30 lb	-	-	-
Point	20'- 1/4"	20'- 1/4"	E51(i55514)	Top	30 lb	-	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	-0'	0'	B38 (CANT.)(i57864)	172 lb	32 lb	-	-
2	12'- 7/8"	12'- 2 5/8"	B37 (CANT.)(i57853)	215 lb	54 lb	-	-
3	21'- 2"	21'- 2"	B36 (CANT.)(i57861)	130 lb	-7 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

S2046763



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (9,**
Level: **Second Floor**
Label: **B36 (CANT.) - i56797**
Type: **Beam**

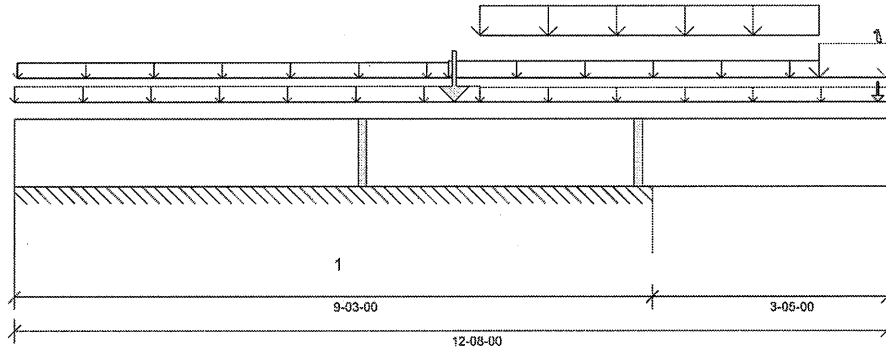
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/07/2022 08:48



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: ,

TL Deflection Limit: ,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 4'- 9 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 1/2"
- 615 psi Wall @ 4'- 7 1/2"
- 615 psi Wall @ 9'- 1 1/2"

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ " O/C
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	6'- 4 1/2"	1.25D + 1.5S + L	0.95	1124 lb ft	25256 lb ft	Passed - 4%
Factored Neg. Moment:	9'- 1 1/2"	1.25D + 1.5S + L	0.96	6255 lb ft	14542 lb ft	Passed - 43%
Factored Shear:	10'- 2 7/8"	1.25D + 1.5L + S	0.84	2037 lb	12168 lb	Passed - 17%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	6'-08	1.25D + 1.5L	0.65	492 lb		19378 lb	9097 lb	Passed - 5%
1	1'-02-08	1.25D + 1.5L + S	0.88	1109 lb		58192 lb	27320 lb	Passed - 4%
1	1'-06-00	1.25D + 1.5S + L	0.96	6878 lb		79102 lb	37136 lb	Passed - 19%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	6'- 9"	FC2 Floor Decking (Plan View Fill)	Top	19 lb/ft	51 lb/ft	-	-
Uniform	0'- 1/2"	6'- 3 1/2"	User Load	Top	60 lb/ft	-	-	-
Uniform	6'- 3 1/2"	11'- 8"	E47(i55509)	Top	101 lb/ft	-	-	-
Uniform	6'- 9"	12'- 8"	FC2 Floor Decking (Plan View Fill)	Top	11 lb/ft	30 lb/ft	-	-
Uniform	6'- 9"	11'- 8"	E47(i55509)	Top	165 lb/ft	-	259 lb/ft	-
Uniform	11'- 8"	12'- 8"	E49(i55513)	Top	266 lb/ft	-	259 lb/ft	-
Point	12'- 6 1/4"	12'- 6 1/4"	B35 (CONT.) (i56712)	Front	271 lb	49/-23 lb	-	-
Point	6'- 4 1/2"	6'- 4 1/2"	E47(i55509)	Top	655 lb	-	1003 lb	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	9'- 3"	-	3046 lb	524/-57 lb	2208/-38 lb	-
++>	0'- 1 1/2"	0'- 1 1/2"	4(i41620)	232 lb	137/-11 lb	-38 lb	-
++>	2'- 4 1/2"	6'- 3 1/2"	4(i41620)	82 lb/ft	68 lb/ft	128 lb/ft	-
++>	6'- 3 1/2"	8'- 9"	E10(i41615)	-	-	-	-
++>	9'- 1 1/2"	9'- 1 1/2"	E41(i52074)	2733 lb	319/-46 lb	2079 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

53046764



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (S,**
Level: **Second Floor**
Label: **B37 (CANT.) - i57853**
Type: **Beam**

1 Ply Member

11 7/8" NI-20

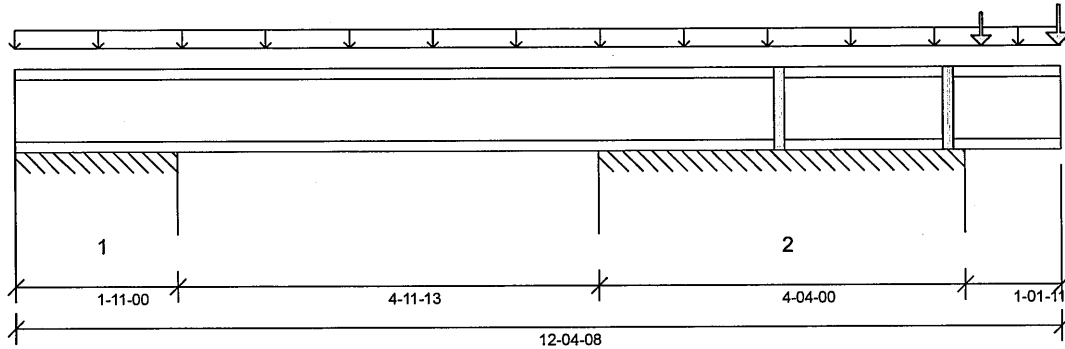
Status:

**Design
Passed**

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 06/02/2022 13:13



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 9'- 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 1/2"
- 615 psi Wall @ 1'- 9 1/2"
- 615 psi Wall @ 7'- 5/16"
- 615 psi Wall @ 11'- 1 5/16"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 11 9/16"	1.25D + 1.5L	0.86	177 lb ft	4825 lb ft	Passed - 4%
Factored Neg. Moment:	11'- 1 5/16"	1.4D	0.65	457 lb ft	3627 lb ft	Passed - 13%
Factored Shear:	11'- 2 7/8"	1.25D + 1.5S	0.65	544 lb	1456 lb	Passed - 37%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	4-12	0.9D + 1.5L	0.80	60 lb		1796 lb	6464 lb	Passed - 3%
1	4-12	1.25D + 1.5L + S	0.88		-100 lb	-	-	
1	1-06-00	1.25D + 1.5L	0.86	380 lb		4384 lb	23936 lb	Passed - 9%
2	11-12	0.9D + 1.5L	0.89	266 lb		4535 lb	16165 lb	Passed - 6%
2	11-12	1.25D + 1.5S	0.65		-51 lb	-	-	
2	1-06-00	1.25D + 1.5S + L	0.80	914 lb		4063 lb	22184 lb	Passed - 22%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 4 1/2"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	12'- 4 1/2"	FC2 Floor Decking (Plan View Fill)	Top	14 lb/ft	37 lb/ft	-	-
Point	11'- 5 1/4"	11'- 5 1/4"	E48(i55512)	Top	130 lb	-	58 lb	-
Point	12'- 4 1/4"	12'- 4 1/4"	B35 (CONT.) (i57825)	Top	215 lb	54 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	1'- 11"	16(i55591)	113/-17 lb	242/-52 lb	2/-1 lb	-
==>	0'- 1 1/2"	0'- 1 1/2"	16(i55591)	-17 lb	50/-52 lb	-1 lb	-
==>	1'- 9 1/2"	1'- 9 1/2"	16(i55591)	113 lb	192 lb	2 lb	-
2	6'- 10 13/16"	11'- 2 13/16"	-	493/-34 lb	400 lb	64/-7 lb	-
++>	7'- 5/16"	7'- 5/16"	15(i55590)	-34 lb	197 lb	-7 lb	-
++>	8'- 9 1/2"	10'- 9"	E42(i52075)	-	-	-	-
++>	11'- 1 5/16"	11'- 1 5/16"	E43(i52076)	493 lb	203 lb	64 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



83046765



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (9.**
Level: **Second Floor**
Label: **B38 (CANT.) - i56748**
Type: **Beam**

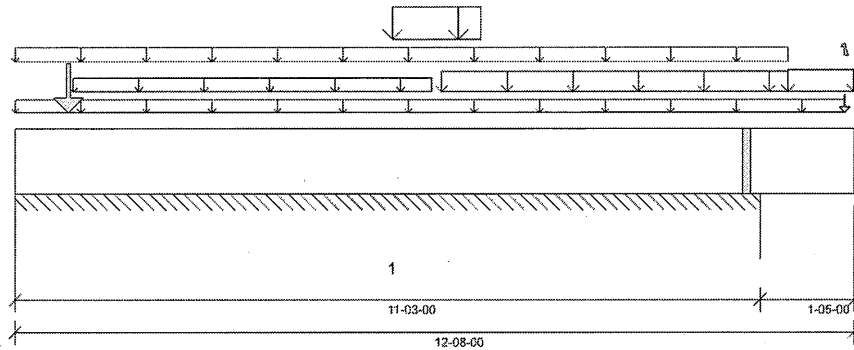
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

Status:
Design
Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MITek® Structure Version
8.5.3.233.Update5.15

Report Version: 2021.03.26 04/07/2022 08:49



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018,
ABC 2019, OBC 2012 (2019
Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit:

TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

Top: 0' Bottom: 10'- 9 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 1/2"
- 615 psi Wall @ 5'- 7 1/2"
- 615 psi Wall @ 11'- 1 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	0'- 9 5/8"	1.25D + 1.5S + L	0.99	2098 lb ft	26251 lb ft	Passed - 8%
Factored Neg. Moment:	5'- 7 1/2"	1.25D + 1.5S + L	0.99	2692 lb ft	6457 lb ft	Passed - 42%
Factored Shear:	12'- 2 7/8"	1.25D + 1.5L	0.65	616 lb	9369 lb	Passed - 7%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	1-06-00	1.25D + 1.5S + L	0.99	3189 lb		81682 lb	38348 lb	Passed - 8%
1	1-06-00	1.25D + 1.5S + L	0.99	5390 lb		81932 lb	38465 lb	Passed - 14%
1	1-06-00	1.25D + 1.5L + S	0.86	3309 lb		70592 lb	33141 lb	Passed - 10%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	12'- 8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	12'- 6 1/4"	FC2 Floor Decking (Plan View Fill)	Top	8 lb/ft	22 lb/ft	-	-
Uniform	0'	11'- 8"	E25(i41626)	Top	101 lb/ft	-	-	-
Uniform	0'- 10 1/2"	6'- 3 1/2"	E25(i41626)	Top	27 lb/ft	-	42 lb/ft	-
Uniform	5'- 8 3/8"	7'- 3/8"	E25(i41626)	Top	440 lb/ft	-	677 lb/ft	-
Uniform	6'- 5 1/4"	11'- 8"	E25(i41626)	Top	165 lb/ft	-	259 lb/ft	-
Uniform	11'- 8"	12'- 8"	E52(i55517)	Top	266 lb/ft	-	259 lb/ft	-
Point	12'- 6 1/4"	12'- 6 1/4"	B35 (CONT.) (i56712)	Back	276 lb	73/-16 lb	-	-
Point	0'- 9 5/8"	0'- 9 5/8"	E25(i41626)	Top	949 lb	-	1457 lb	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	11'- 3"	-	2890 lb	288/-39 lb	2558 lb	-
++>	0'- 1 1/2"	0'- 1 1/2"	E12(i41614)	888 lb	44/-7 lb	1077 lb	-
++>	1'- 11 1/2"	5'- 7 1/2"	E12(i41614)	312 lb/ft	30/-1 lb/ft	247 lb/ft	-
++>	5'- 7 1/2"	9'- 3 1/2"	E12(i41614)	305 lb/ft	26/-6 lb/ft	370 lb/ft	-
++>	11'- 1 1/2"	11'- 1 1/2"	E43(i52076)	1385 lb	187/-25 lb	864 lb	-

DESIGN NOTES

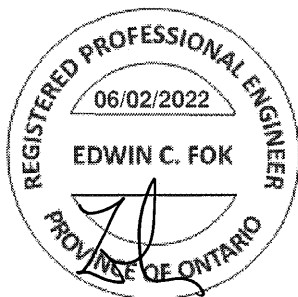
- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Lateral stability factor (KL) was based on user preference to use the width of one ply.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.
- User loads assume a bearing length of 3.5" in determining member capacity for loads near supports.
- Bearing capacity of member at support 1 was verified for the effect of concentrated load applied near the support. At support 1. Required Load Area: L=1.500", W=3.500". LDF=0.99, Pf=3428 lb, Qr=6880 lb, Result=49.83%.

PLY TO PLY CONNECTION

- Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

NAIL ONE PLY TO ANOTHER WITH
3-1/2" SPIRAL NAILS @ 12" O/C
STAGGERED IN 2 ROWS

(TOP WORKED)



52046766



Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground C + Second C (9,**
Level: **Second Floor**
Label: **B39 (CONT.) - i56788**
Type: **Beam**

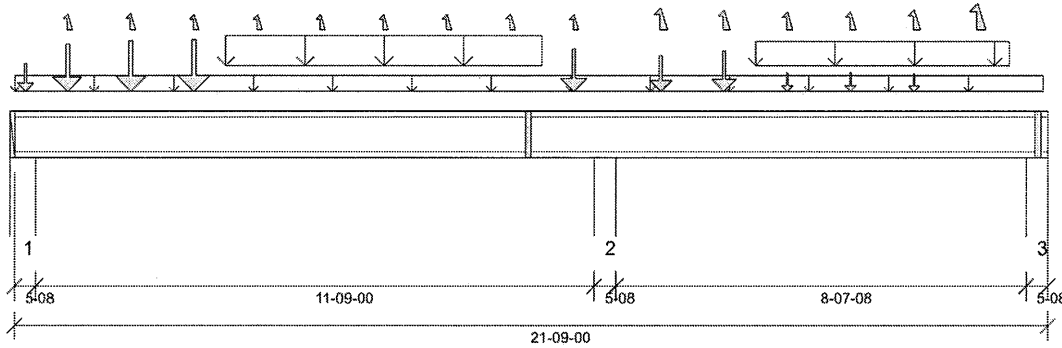
2 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/07/2022 08:49



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD

Service Condition: Dry

LL Deflection Limit: L/360,

TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 1 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 4 1/2"
- 615 psi Wall @ 12'- 5 1/4"
- 615 psi Wall @ 21'- 4 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 1 1/4"	1.25D + 1.5L	1.00	6345 lb ft	11160 lb ft	Passed - 57%
Factored Neg. Moment:	12'- 5 1/4"	1.25D + 1.5L	1.00	6456 lb ft	11160 lb ft	Passed - 58%
Factored Shear:	12'- 2 7/16"	1.25D + 1.5L	1.00	3283 lb	4480 lb	Passed - 73%
Live Load (LL) Pos. Defl.:	6'- 1/8"	L + 0.5S		0.177"	L/360	Passed - L/798
Live Load (LL) Neg. Defl.:	16'- 2 7/8"	L + 0.5S		0.071"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	5'- 11 7/8"	D + L + 0.5S		0.238"	L/240	Passed - L/593
Total Load (TL) Neg. Defl.:	16'- 1 5/16"	D + L + 0.5S		0.089"	L/240	Passed - L/999

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L + S	1.00	2546 lb		4480 lb	16918 lb	Passed - 57%
2	5-08	1.25D + 1.5L	1.00	5392 lb		10140 lb	16918 lb	Passed - 53%
3	5-08	0.9D + 1.5L	1.00	1094 lb		4480 lb	16918 lb	Passed - 24%
3	5-08	1.25D + 1.5L + S	1.00		-514 lb	-	-	

SPECIFIED LOADS

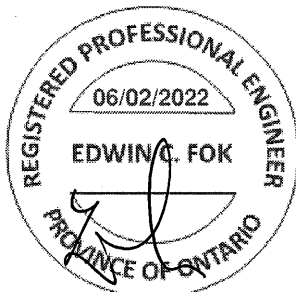
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'- 9"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	-0'	21'- 7 3/4"	FC2 Floor Decking (Plan View Fill)	Top	6 lb/ft	16 lb/ft	-	-
Uniform	4'- 5 1/4"	11'- 1 1/4"	Smoothed Load	Front	80 lb/ft	229 lb/ft	-	-
Uniform	15'- 7 1/4"	20'- 11 1/4"	Smoothed Load	Front	-	189 lb/ft	-	-
Point	1'- 1 1/4"	1'- 1 1/4"	J1(i56762)	Front	86 lb	279/-5 lb	-9 lb	-
Point	2'- 5 1/4"	2'- 5 1/4"	J1(i56745)	Front	96 lb	305/-5 lb	-12 lb	-
Point	3'- 9 1/4"	3'- 9 1/4"	J1(i56781)	Front	109 lb	305/-5 lb	-	-
Point	5'- 1 1/4"	5'- 1 1/4"	J1(i56767)	Front	-	-5 lb	-	-
Point	6'- 5 1/4"	6'- 5 1/4"	J1(i56800)	Front	-	-5 lb	-	-
Point	7'- 9 1/4"	7'- 9 1/4"	J1(i56683)	Front	-	-5 lb	-	-
Point	9'- 1 1/4"	9'- 1 1/4"	J1(i56807)	Front	-	-5 lb	-3 lb	-
Point	10'- 5 1/4"	10'- 5 1/4"	J1(i56718)	Front	-	-5 lb	-9 lb	-
Point	11'- 9 1/4"	11'- 9 1/4"	J1(i56756)	Front	80 lb	229/-4 lb	-2 lb	-
Point	13'- 7 1/4"	13'- 7 1/4"	J1(i56817)	Front	-	236/-34 lb	-48 lb	-
Point	14'- 11 1/4"	14'- 11 1/4"	J1(i56708)	Front	33 lb	252/-38 lb	-18 lb	-
Point	16'- 3 1/4"	16'- 3 1/4"	J1(i56717)	Front	45 lb	-38 lb	-	-
Point	17'- 7 1/4"	17'- 7 1/4"	J1(i56703)	Front	45 lb	-38 lb	-	-
Point	18'- 11 1/4"	18'- 11 1/4"	J1(i56701)	Front	31 lb	-38 lb	-20 lb	-
Point	20'- 3 1/4"	20'- 3 1/4"	J1(i56696)	Front	-32 lb	-40 lb	-58 lb	-
Point	0'- 2 3/4"	0'- 2 3/4"	E25(i41626)	Top	88 lb	-	61 lb	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	E12(i41614)	527 lb	1228/-71 lb	49 lb	-
2	12'- 2 1/2"	12'- 8"	16(i55591)	866 lb	2871/-162 lb	-99 lb	-
3	21'- 3 1/2"	21'- 9"	4(i41620)	-15 lb	739/-284 lb	-68 lb	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



56046767

Maximum Floor Spans – M4.1, L/360

Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing



Maximum Floor Spans

Joist depth	Joist series	Bare On centre spacing				1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	14'-11"
	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
11-7/8"	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-1"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
14"	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
16"	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-8"	17'-6"	16'-7"	14'-11"	19'-2"	17'-8"	16'-7"	14'-11"
	NI-60	18'-11"	17'-8"	16'-10"	15'-7"	19'-5"	18'-0"	16'-10"	15'-7"
	NI-80	20'-3"	18'-10"	17'-11"	17'-2"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	21'-10"	20'-4"	19'-0"	17'-0"	22'-5"	20'-10"	19'-0"	17'-0"
	NI-60	22'-1"	20'-7"	19'-8"	18'-7"	22'-8"	21'-2"	20'-3"	18'-8"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-4"
14"	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
	NI-40x	24'-5"	22'-9"	20'-11"	18'-8"	25'-1"	22'-11"	20'-11"	18'-8"
	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-10"	22'-9"	21'-4"
	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
16"	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	25'-0"	23'-1"
	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

Notes:

- The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

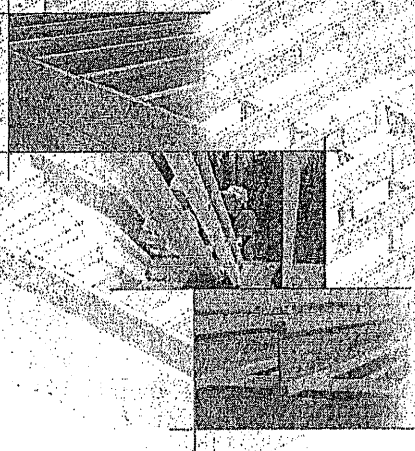
Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)

NORDIC ENGINEERED WOOD

INSTALLATION GUIDE FOR RESIDENTIAL FLOORS



Distributed by:



SAFETY AND CONSTRUCTION PRECAUTIONS



WARNING

I-joists are not stable until completely braced, and will not carry any load until fully braced and sheathed.

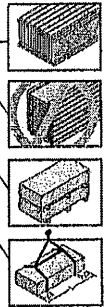
Avoid Accidents by Following these Important Guidelines:

1. Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and/or cross-briding of joist walls. When I-joists are applied continuous over interior supports and a load-bearing wall is situated at that location, blocking will be required at the interior support.
2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover or buckling.
 - Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on center, and must be secured with a minimum of two 2-1/2" nails (screwed to the top surface of each I-joist). Nail the bracing to a lateral resistant at the end of each bay. Top ends of supporting bracing over at least two I-joists.
 - On sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay.
3. For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-briding.
4. Install and fully nail permanent sheathing to each I-joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
5. Never install a damaged I-joist.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable size and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.

STORAGE AND HANDLING GUIDELINES

1. Bundle wrap can be slippery when wet. Avoid walking on wrapped bundles.
2. Store, stack, and handle I-joists vertically and level only.
3. Always stack and handle I-joists in the upright position only.
4. Do not store I-joists in direct contact with the ground and/or flanges.
5. Protect I-joists from weather, and use spacers to separate bundles.
6. Bundled units should be kept insect until time of installation.
 - When handling I-joists with a crane on the job site, take a few simple precautions to prevent damage to the I-joists and injury to your work crew.
 - Pick I-joists in bundles as shipped by the supplier.
 - Orient the bundles so that the webs of the I-joists are vertical.
 - Pick the bundles at the 3rd points, using a spreader bar if necessary.
7. Do not handle I-joists in a horizontal orientation.
8. NEVER USE OR TRY TO REPAIR A DAMAGED I-JOIST.

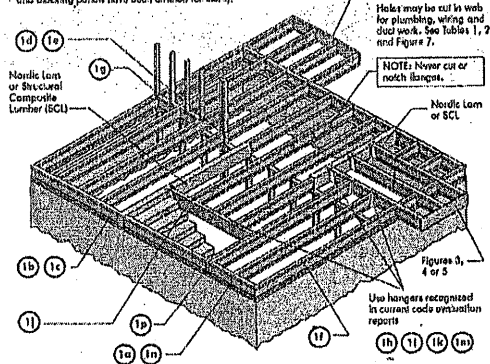


INSTALLING NORDIC I-JOISTS

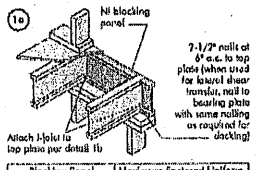
1. Before laying out floor system components, verify that I-joist flange widths match hanger widths. If not, contact your supplier.
2. Except for cutting to length, I-joist flanges should never be cut, drilled, or notched.
3. Install I-joists so that top and bottom flanges are within 1/2 inch of true vertical alignment.
4. I-joists must be anchored securely to supports before floor sheathing is attached, and supports for multiple-span joists must be level.
5. Minimum bearing length is 1-3/4 inches for end bearings and 3-1/2 inches for intermediate bearings.
6. When using hangers, seal I-joist flange to hanger bottoms to minimize rot/fungus.
7. Leave a 1/16-inch gap between the I-joist end and a header.
8. Concentrated loads greater than those that can normally be expected in residential construction should only be applied to the top surface of the top flange. Normal concentrated loads include rock lighting fixtures, audio equipment and security cameras. Never support unusual or heavy loads from the I-joist's bottom flange. Whenever possible, support all concentrated loads from the top of the I-joist. Or, attach the load to blocking that has been securely fastened to the I-joist webs.
9. Never install I-joists where they will be permanently exposed to weather, or where they will remain in direct contact with concrete or masonry.
10. Restrain ends of floor joists to prevent rollover. Use rim board, rim joists or I-joist blocking panels.
11. For I-joists installed over and beneath bearing walls, use full depth blocking panels, rim board, or squash blocks (cripple members) to transfer gravity loads through the floor system to the wall or foundation below.
12. Due to shrinkage, common framing lumber set on edge may never be used as blocking or rim boards. I-joist blocking panels or other engineered wood products – such as rim board – must be cut to fit between the I-joists, and an I-joist-compatible depth selected.
13. Provide permanent lateral support of the bottom flange of all I-joists at interior supports of multiple-span joists. Similarly, support the bottom flange of all cantilevered I-joists at the end support next to the cantilever extension. In the completed structure, the gypsum wallboard ceiling provides this lateral support. Until the final finished ceiling is applied, temporary bracing or struts must be used.
14. If square-edge panels are used, edges must be supported between I-joists with 2x4 blocking. These panels to blocking to minimize squeaks. Blocking is not required under structural finish flooring, such as wood strip flooring, or if a separate underlayment layer is installed.
15. Nail spacing: Space nails installed to the flange's top face in accordance with the applicable building code requirements or approved building plans.

FIGURE 1
TYPICAL NORDIC I-JOIST FLOOR FRAMING AND CONSTRUCTION DETAILS

Some framing requirements such as erection bracing and blocking panels have been omitted for clarity.

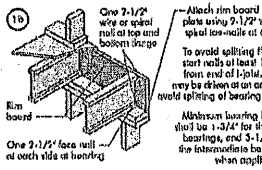


All nails shown in the above details are assumed to be common wire nails unless otherwise noted. 3" (1.22") dia 2 common spiral nails may be substituted for 2-1/2" (6.35") dia 2 common spiral nails. Framing lumber assumed to be Spruce-Pine-Fir No. 2 or better. Individual components not shown to scale for clarity.



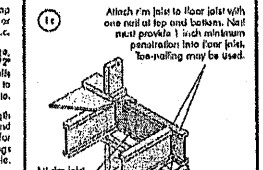
Blocking Panel or Rim Joist	Maximum Factored Uniform Vertical Load* (kN)
1-1/2" Rim Board Plus	3,300

*The uniform vertical load is limited to a joist depth of 14 inches or less and is based on standard term load duration. It shall not be used in the design of a bending member, such as joist, header, or rafter. For concentrated vertical load transfer, see detail 1d.



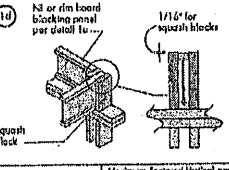
Blocking Panel or Rim Joist	Maximum Factored Uniform Vertical Load* (kN)
1-1/2" Rim Board Plus	3,300

*The uniform vertical load is limited to a joist depth of 14 inches or less and is based on standard term load duration. It shall not be used in the design of a bending member, such as joist, header, or rafter. For concentrated vertical load transfer, see detail 1d.



Blocking Panel or Rim Joist	Maximum Factored Uniform Vertical Load* (kN)
1-1/2" Rim Board Plus	3,300

*The uniform vertical load is limited to a joist depth of 14 inches or less and is based on standard term load duration. It shall not be used in the design of a bending member, such as joist, header, or rafter. For concentrated vertical load transfer, see detail 1d.



Pair of Squash Blocks	Maximum Factored Uniform Vertical Load* (kN)
2x Lumber	5,500
1-1/2" Rim Board Plus	4,300

*The uniform vertical load is limited to a joist depth of 14 inches or less and is based on standard term load duration. It shall not be used in the design of a bending member, such as joist, header, or rafter. For concentrated vertical load transfer, see detail 1d.

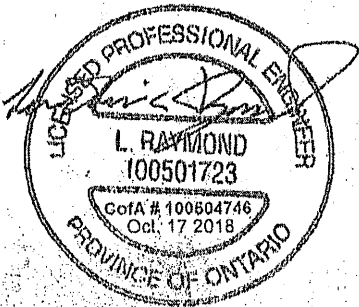
The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

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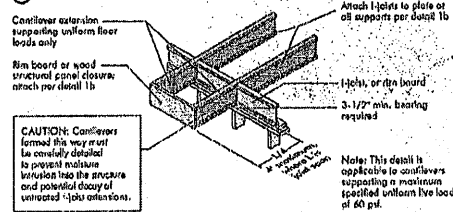
Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



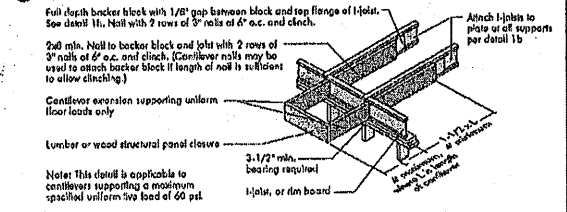
N-C301/April 2014

CANTILEVER DETAILS FOR BALCONIES (NO WALL LOAD)

30 I-JOIST CANTILEVER DETAIL FOR BALCONIES (No Wall Load)

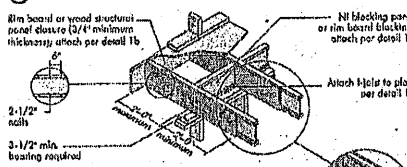


31 LUMBER CANTILEVER DETAIL FOR BALCONIES (No Wall Load)

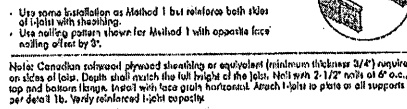


CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)

40 Method 1 - SHEATHING REINFORCEMENT ONE SIDE



Method 2 - SHEATHING REINFORCEMENT TWO SIDES



42 Alternate Method 2 - DOUBLE I-JOIST

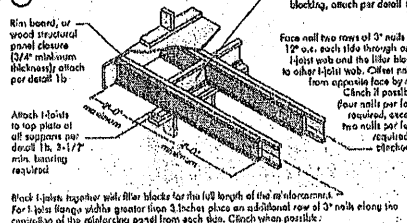


FIGURE 4 (continued)



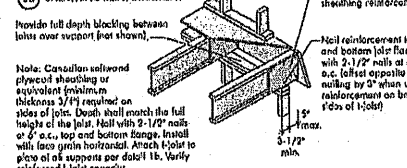
CANTILEVER REINFORCEMENT METHODS ALLOWED

Span	1-1/2" min. bearing required		2-0" min. bearing required		3-1/2" min. bearing required		4-0" min. bearing required		5-0" min. bearing required		6-0" min. bearing required		7-0" min. bearing required		8-0" min. bearing required		9-0" min. bearing required		10-0" min. bearing required	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
2-1/2'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

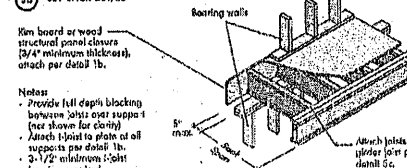
1. N = No reinforcement required.
2. N = Reinforced with 3/4" wood structural panel on one side only.
3. N = Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
4. N = by a deeper joist or closer spacing.
5. Minimum design load shall be 15 psf roof dead load, 85 psf floor dead load, and 60 psf live load. Will load is based on 2'-0" maximum width of clear openings.
6. For larger openings, or multiple 2'-0" with openings spaced less than 6'-0" o.c., additional joist beneath the opening's cripple studs may be required.
7. Table applies to joists 12" to 24" o.c. that meet the floor beam requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/480. Use 12" o.c. requirements for lesser spacing.
8. For conventional roof construction using a ridge beam, the roof truss span column above is equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge beam, the roof truss span is equivalent to the distance between the supporting walls as if a truss is used.
9. Cantilevered joist supporting girder trusses or roof beams may require additional reinforcing.

BRICK CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)

50 SHEATHING REINFORCEMENT



51 SET-BACK DETAIL



52 SET-BACK CONNECTION

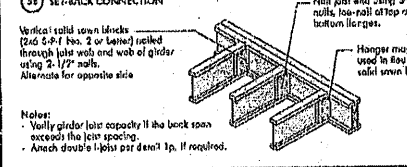
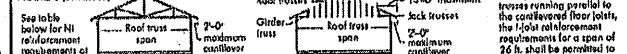


FIGURE 5 (continued)



BRICK CANTILEVER REINFORCEMENT METHODS ALLOWED

Span	1-1/2" min. bearing required		2-0" min. bearing required		3-1/2" min. bearing required		4-0" min. bearing required		5-0" min. bearing required		6-0" min. bearing required		7-0" min. bearing required		8-0" min. bearing required		9-0" min. bearing required		10-0" min. bearing required	
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
2-1/2'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
5-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
6-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
7-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
8-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
9-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10-0'	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10-6"	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

1. N = No reinforcement required.
2. N = Reinforced with 3/4" wood structural panel on one side only.
3. N = Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
4. N = by a deeper joist or closer spacing.
5. Minimum design load shall be 15 psf roof dead load, 85 psf floor dead load, and 60 psf live load. Will load is based on 2'-0" maximum width of clear openings.
6. For larger openings, or multiple 2'-0" with openings spaced less than 6'-0" o.c., additional joist beneath the opening's cripple studs may be required.
7. Table applies to joists 12" to 24" o.c. that meet the floor beam requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/480. Use 12" o.c. requirements for lesser spacing.
8. For conventional roof construction using a ridge beam, the roof truss span column above is equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge beam, the roof truss span is equivalent to the distance between the supporting walls as if a truss is used.
9. Cantilevered joist supporting girder trusses or roof beams may require additional reinforcing.

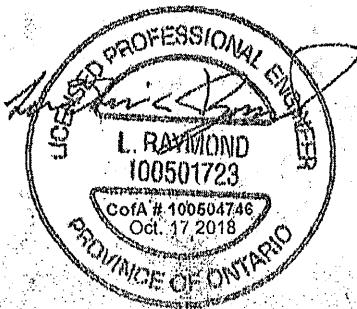
The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



WEB HOLES

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS

1. The distance between the inside edge of the support and the centreline of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
2. Joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field-cut holes should be centred on the middle of the web.
4. The maximum hole or the maximum depth of a duct chase opening that can be cut into an I-joist web shall equal the clear distance between the flanges of the joist minus 1/4 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole or opening and the adjacent joist flange.
5. The sides of square holes or longest sides of rectangular holes should not exceed 3/4 of the diameter of the maximum round hole permitted at that location.
6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole or twice the length of the longest side of the longest rectangular hole or duct chase opening and each hole and duct chase opening shall be sized and located in compliance with the requirements of Tables 1 and 2, respectively.
7. A knockout is not considered a hole, may be utilized anywhere it occurs, and may be ignored for purposes of calculating minimum distances between holes and/or duct chase openings.
8. Holes measuring 1-1/2 inches or smaller shall be permitted anywhere in a continuous section of a joist. Holes of greater size may be permitted subject to verification.
9. A 1-1/2 inch hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
10. All holes and duct chase openings shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 7.
11. Limit three maximum 2 1/2 holes per span, of which one may be a duct chase opening.
12. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole described around them.

TABLE 1
LOCATION OF CIRCULAR HOLES IN JOIST WEBS
Simple or Multiple Span for Dead Loads up to 16 psf and Live Loads up to 40 psf

Span Type	Span Length (ft)	Minimum Distance from Support (ft)				Minimum Distance from Centerline of Span (ft)			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
Simple	10	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	16	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Multiple	10	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	16	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

1. Above table may be used for light spacing of 24 inches on centre or less.
2. Hole location distance is measured from inside face of supports to centre of hole.
3. Distances in this chart are based on uniformly loaded joists.

OPTIONAL:

The above table is based on the hole used of any support span, if the joist are placed at less than their full maximum span (see Minimum Floor Span), the minimum distance from the centreline of the hole to the face of any support (S) is given above may be reduced as follows:

$$\text{Reduced } S = \text{Original } S \times D$$

Where:

Reduced =

Original =

S =

D =

Distance from the inside face of one support to centre of hole, reduced by less than maximum span application (S), the reduced distance shall not be less than 6 inches from the face of the support to edge of the hole.

The actual measured span distance between the inside face of supports (S).

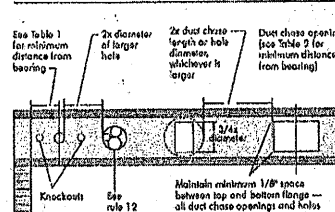
Span Application Factor given in this table.

The minimum distance from the inside face of any support to centre of hole from this table.

If (S) is greater than 1, use 1 in the above calculation for (S).

If (S) is greater than 1, use 1 in the above calculation for (S).

FIGURE 7
FIELD-CUT HOLE LOCATOR



A knockout is NOT considered a hole, may be utilized wherever it occurs and may be ignored for purposes of calculating minimum distances between holes.

Knockouts are preformed holes provided for the contractor's convenience to install electrical or small plumbing lines. They are 1-1/2 inches in diameter and are spaced 15 inches on centre along the length of the joist. Where possible, it is preferable to use knockouts instead of field-cut holes.

Never drill, cut or notch the flange, or overcut the web. Holes in webs should be cut with a shear saw.

For rectangular holes, avoid overcutting the corners, as this can cause unnecessary stress concentrations. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1-inch diameter hole in each of the four corners and then making the cut between the holes is another good method to minimize damage to the I-joist.

TABLE 2
DUCT CHASE OPENING SIZES AND LOCATIONS — Simple Span Only

Span Type	Span Length (ft)	Minimum Distance from Support (ft)				Minimum Distance from Centerline of Span (ft)			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
Simple	10	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	16	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Multiple	10	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	16	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

1. Above table may be used for light spacing of 24 inches on centre or less.
2. Duct chase opening location distance is measured from inside face of supports to centre of opening.
3. The above table is based on simple span joists only. For other applications, contact your local distributor.
4. Distances are based on uniformly loaded floor joists but must also span requirements for a design load of 40 psf and dead load of 15 psf and a live load deflection limit of L/160. For other applications, contact your local distributor.

INSTALLING THE GLUED FLOOR SYSTEM

1. Wipe any mud, dirt, water, or ice from joist flanges before gluing.
2. Snap a chalk line across the joists four feet from the wall for panel edge alignment and as a boundary for spreading glue.
3. Spread only enough glue to lay one or two panels at a time, or follow specific recommendations from the glue manufacturer.
4. Lay the first panel with tongue side to the wall, and nail in place. This protects the tongue of the next panel from damage when tapped into place with a block and sledgehammer.
5. Apply a continuous line of glue (about 1/4-inch diameter) to the top flange of a joist. Apply glue in a winding pattern on wide areas, such as with double joists.
6. Apply two lines of glue on joists where panel ends but to ensure proper gluing of each end.
7. After the first row of panels is in place, spread glue in the groove of one or two panels at a time before laying the next row. Chalk line may be continuous or spaced, but avoid squeaking by applying a distance line (1/8 inch) then use an I-joist flange.
8. Tap the second row of panels into place, using a block to protect groove edges.
9. Stagger and joints in each succeeding row of panels. A 1/8-inch space between all end joints and 1/8-inch at all edges, including T&O edges, is recommended. (Use a spacer tool or an 1-1/2" common nail to ensure accurate and consistent spacing.)
10. Complete all nailing of each panel before glue sets. Check the manufacturer's recommendations for cure time. (When weather conditions give nothing) Use 2" rings or screw-downs for panels 3/4-inch thick or less, and 2-1/2" rings or screw-downs for thicker panels. Space nails per the table below. Closer nail spacing may be required by some codes, or for diaphragm construction. The finished deck can be walked on right away and will carry construction loads without damage to the glue bond.

FASTENERS FOR SHEATHING AND SUBFLOORING(1)

Joist Spacing (ft)	Joist Depth (in)	2"	1-3/4"	2"	6"	12"
16	4/8	2"	1-3/4"	2"	6"	12"
20	5/8	2"	1-3/4"	2"	6"	12"
24	3/4	2"	1-3/4"	2"	6"	12"

1. Fasteners of sheathing and subflooring shall conform to the above table.
2. Staples shall not be less than 1/16-inch in diameter or thickness, with not less than a 3/8-inch crown driven with the crown parallel to framing.
3. Flooring screws shall not be less than 1/8-inch in diameter.
4. Special conditions may impose heavy traffic and concentrated loads that require construction in excess of the minimum above.
5. Use only adhesives conforming to CAN/CGSB-71.26 Standard, Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems, applied in accordance with the manufacturer's recommendations. If OSB panels with scoring surfaces and edges are to be used, use only solvent-based glue; check with panel manufacturer.

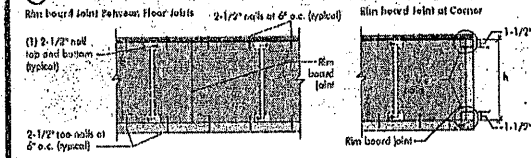
Note: NRC-CNRC, National Building Code of Canada 2010, Table 9.23.3.3.

IMPORTANT NOTE:

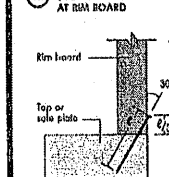
For sheathing must be field glued to the I-joist flanges in order to achieve five nudament spans shown in this document. If sheathing is nailed only, I-joist spans must be verified with your local distributor.

RIM BOARD INSTALLATION DETAILS

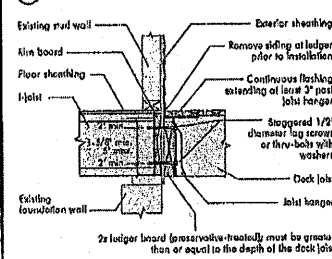
(a) ATTACHMENT DETAILS WHERE RIM BOARD IS CUT



(b) TOE-NAIL CONNECTION AT RIM BOARD



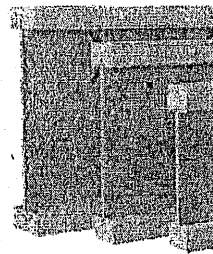
(c) 2X LEDGER TO RIM BOARD ATTACHMENT DETAIL



PRODUCT WARRANTY

Wulfsberg Construction warrants that its products will be free from defects in materials and workmanship for a period of ten (10) years from the date of installation.

This warranty is void if the products are not installed in accordance with the manufacturer's instructions, or if the products are used for purposes other than those intended.



CONSTRUCTION DETAILS FOR RESIDENTIAL FLOORS



Refer to the Installation Guide for Residential Floors for additional information.
CCMC EVALUATION REPORT 13032-R

WEB HOLE SPECIFICATIONS

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS:

1. The distance between the inside edge of the support and the centreline of any hole or duct chase opening shall be in compliance with the requirements of Tables 1 or 2, respectively.
2. Joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field-cut holes should be centred on the middle of the web.
4. The maximum size hole or the maximum depth of a duct chase opening that can be cut into a joist web shall equal the clear distance between the flanges of the joist minus 1/4 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole or opening and the adjacent joist flange.

5. The sides of square holes or longest sides of rectangular holes should not exceed 3/4 of the diameter of the maximum round hole permitted at that location.
6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the largest rectangular hole or duct chase opening) and each hole and duct chase opening shall be sized and located in compliance with the requirements of Tables 1 and 2, respectively.
7. A knockout is not considered a hole; may be utilized anywhere it occurs, and may be ignored for purposes of calculating minimum distances between holes and/or duct chase openings.
8. Holes measuring 1-1/2 inches or smaller are permitted anywhere in a cantilevered section of a joist. Holes of greater size may be permitted subject to verification.

9. A 1-1/2 inch hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
10. All holes and duct chase openings shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 7.
11. Limit three maximum size holes per span, of which one may be a duct chase opening.
12. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

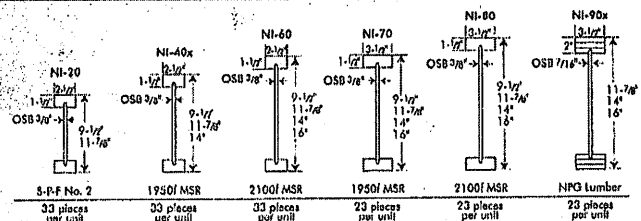


TABLE 1
LOCATION OF CIRCULAR HOLES IN JOIST WEBS

Simple or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 40 psf

Joist Depth	Joist Series	Minimum Distance from Inside Face of Any Support to Centre of Hole (ft. - in.)											
		Round Hole Diameter (in.)											
9-1/2"	NI-20	0-7"	1-6"	2-10"	4-3"	5-8"	6-0"	...	...	...	...	...	...
	NI-40x	0-7"	1-6"	3-0"	4-4"	6-0"	6-4"	...	...	...	...	...	...
	NI-60	1-5"	2-6"	4-0"	5-4"	7-0"	7-5"	...	...	...	...	...	...
	NI-70	2-0"	3-4"	4-8"	6-3"	8-0"	8-4"	...	...	...	...	...	...
	NI-80	2-3"	3-4"	5-0"	6-5"	8-0"	8-8"	...	...	...	...	...	...
11-7/8"	NI-20	0-7"	0-8"	1-0"	2-4"	3-8"	4-0"	5-0"	6-6"	7-9"	...	...	...
	NI-40x	0-7"	0-8"	1-0"	2-4"	4-0"	4-4"	5-8"	7-0"	8-4"	...	...	...
	NI-60	0-7"	1-0"	3-0"	4-3"	6-3"	6-0"	7-3"	8-10"	10-0"	...	...	...
	NI-70	1-2"	2-0"	4-0"	5-4"	6-5"	7-2"	8-4"	10-0"	11-2"	...	...	...
	NI-80	1-6"	2-10"	4-2"	5-6"	7-0"	7-5"	8-6"	10-3"	11-4"	...	...	...
14"	NI-20	0-7"	0-8"	0-9"	2-0"	3-4"	4-4"	4-9"	6-3"	...	...	...	...
	NI-40x	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-6"	8-3"	10-2"
	NI-60	0-7"	0-8"	1-8"	3-0"	4-3"	4-8"	5-8"	7-2"	8-0"	8-8"	10-4"	11-9"
	NI-70	0-8"	1-10"	3-0"	4-5"	6-10"	6-2"	7-3"	8-9"	9-7"	10-4"	12-0"	13-6"
	NI-80	0-10"	2-0"	3-4"	4-9"	6-2"	6-5"	7-6"	9-0"	10-0"	10-8"	12-4"	13-9"
16"	NI-20	0-7"	0-8"	0-8"	1-6"	2-10"	3-2"	4-2"	5-6"	6-4"	7-0"	8-5"	9-8"
	NI-40x	0-7"	1-0"	2-3"	3-6"	4-10"	5-3"	6-3"	7-8"	8-6"	9-2"	10-8"	12-0"
	NI-60	0-7"	1-3"	2-6"	3-10"	4-12"	5-6"	6-6"	8-0"	9-8"	11-0"	12-6"	14-0"
	NI-70	0-7"	1-3"	2-6"	3-10"	4-12"	5-6"	6-6"	8-0"	9-8"	11-0"	12-6"	14-0"
	NI-80	0-7"	1-3"	2-6"	3-10"	4-12"	5-6"	6-6"	8-0"	9-8"	11-0"	12-6"	14-0"

1. Above table may be used for I-joist spacing of 24 inches on centre or less.
2. Hole location distance is measured from inside face of support to centre of hole.
3. Distances in this chart are based on uniformly loaded joists.
4. The above table is based on the I-joist being used at their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

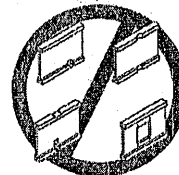
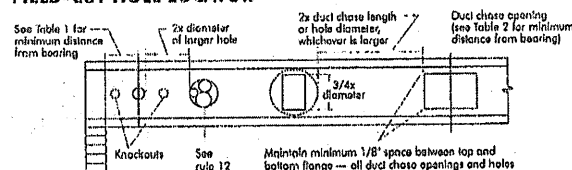
TABLE 2
DUCT CHASE OPENING SIZES AND LOCATIONS

Simple Span Only

Joist Depth	Joist Series	Minimum Distance from Inside Face of Supports to Centre of Opening (ft. - in.)											
		Duct Chase Length (in.)											
9-1/2"	NI-20	4-1"	4-5"	4-10"	5-4"	5-8"	6-11"	6-6"	7-1"	7-5"	8-2"	8-6"	9-4"
	NI-40x	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-7"	9-1"	9-6"	10-1"
	NI-60	6-2"	6-7"	7-1"	7-5"	8-0"	8-5"	9-0"	9-4"	9-9"	10-3"	10-8"	11-2"
	NI-70	5-1"	5-5"	5-10"	6-3"	6-7"	7-1"	7-6"	8-1"	8-4"	8-9"	9-3"	9-8"
	NI-80	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-7"	9-1"	9-6"	10-1"
11-7/8"	NI-20	5-9"	6-2"	6-6"	7-1"	7-5"	7-9"	8-3"	8-9"	9-4"	9-8"	10-1"	10-9"
	NI-40x	6-8"	7-2"	7-6"	8-1"	8-5"	9-0"	9-3"	9-9"	10-3"	10-7"	11-0"	11-9"
	NI-60	7-9"	7-8"	8-0"	8-4"	8-9"	9-3"	9-7"	10-1"	10-5"	10-9"	11-3"	11-7"
	NI-70	7-1"	7-4"	7-9"	8-3"	8-7"	9-1"	9-6"	10-0"	10-4"	10-8"	11-2"	11-6"
	NI-80	7-2"	7-7"	8-0"	8-5"	8-10"	9-3"	9-8"	10-2"	10-6"	11-0"	11-4"	11-8"
14"	NI-20	7-7"	8-1"	8-5"	8-10"	9-3"	9-8"	10-2"	10-6"	11-0"	11-4"	11-8"	12-2"
	NI-40x	8-1"	8-7"	9-0"	9-6"	10-1"	10-5"	10-9"	11-3"	11-7"	12-1"	12-5"	12-9"
	NI-60	8-9"	9-3"	9-8"	10-1"	10-6"	11-1"	11-6"	12-0"	12-4"	12-8"	13-2"	13-6"
	NI-70	8-7"	9-1"	9-5"	9-10"	10-4"	10-8"	11-2"	11-6"	12-0"	12-4"	12-8"	13-2"
	NI-80	9-0"	9-3"	9-9"	10-1"	10-7"	11-1"	11-6"	12-0"	12-4"	12-8"	13-2"	13-6"
16"	NI-20	9-4"	9-9"	10-3"	10-7"	11-1"	11-5"	11-9"	12-3"	12-7"	13-1"	13-5"	13-9"
	NI-40x	10-3"	10-8"	11-2"	11-6"	12-1"	12-5"	12-9"	13-3"	13-7"	14-1"	14-5"	14-9"
	NI-60	10-1"	10-5"	11-0"	11-4"	11-8"	12-2"	12-6"	13-0"	13-4"	13-8"	14-2"	14-6"
	NI-70	10-4"	10-9"	11-3"	11-7"	12-1"	12-5"	12-9"	13-3"	13-7"	14-1"	14-5"	14-9"
	NI-80	11-1"	11-5"	11-9"	12-4"	12-8"	13-2"	13-6"	14-0"	14-4"	14-8"	15-2"	15-6"

1. Above table may be used for I-joist spacing of 24 inches on centre or less.
2. Duct chase opening location distance is measured from inside face of support to centre of opening.
3. The above table is based on simple-span joists only. For other applications, contact your local distributor.
4. Distances are based on uniformly loaded floor joists that meet the span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/480.
5. The above table is based on the I-joist being used at their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

FIGURE 7
FIELD-CUT HOLE LOCATOR



Knockouts are predrilled holes provided for the contractor's convenience to install electrical or small plumbing lines. They are 1-1/2 inches in diameter, and are spaced 15 inches on centre along the length of the joist. Where possible, it is preferable to use knockouts instead of field-cut holes.

Never drill, cut or notch the flange, or over-cut the web.

Holes in webs should be cut with a sharp saw.

For rectangular holes, avoid over-cutting the corners, as this can cause unnecessary stress concentrations. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1-inch diameter hole in each of the four corners and then making the cuts between the holes is another good method to minimize damage to the joist.

SAFETY AND CONSTRUCTION PRECAUTIONS



Do not walk on joists until fully fastened and braced, or serious injury can result.



Never stack building materials over unsupported joists. Once sheathed, do not over-stress joists with concentrated loads from building materials.

WARNING: I-joists are not stable until completely installed, and will not carry any load until fully braced and sheathed.

AVOID ACCIDENTS BY FOLLOWING THESE IMPORTANT GUIDELINES:

1. Brace and nail each I-joist as it is installed, using fenders, blocking panels, rim board, and/or cross-bracing at joist ends. When I-joists are applied continuous over interior supports and a load-bearing wall is planned at that location, blocking will be required at the interior support.
2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover or buckling.
 - * Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on centre, and must be secured with a minimum of two 2-1/2" nails fastened to the top surface of each I-joist. Nail the bracing to a lateral restraint at the end of each joist. Top ends of adjoining bracing over at least two I-joists.
 - * Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay.
3. For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bracing.
4. Install and fully nail permanent sheathing to each I-joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
5. Never install a damaged I-joist.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable hole sizes and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.



PRODUCT WARRANTY

Chambers Construction guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defects in material and workmanship.

Furthermore, Chambers Construction warrants that our products, when utilized in accordance with our handling and installation instructions, will meet or exceed our specifications for the lifetime of the structure.

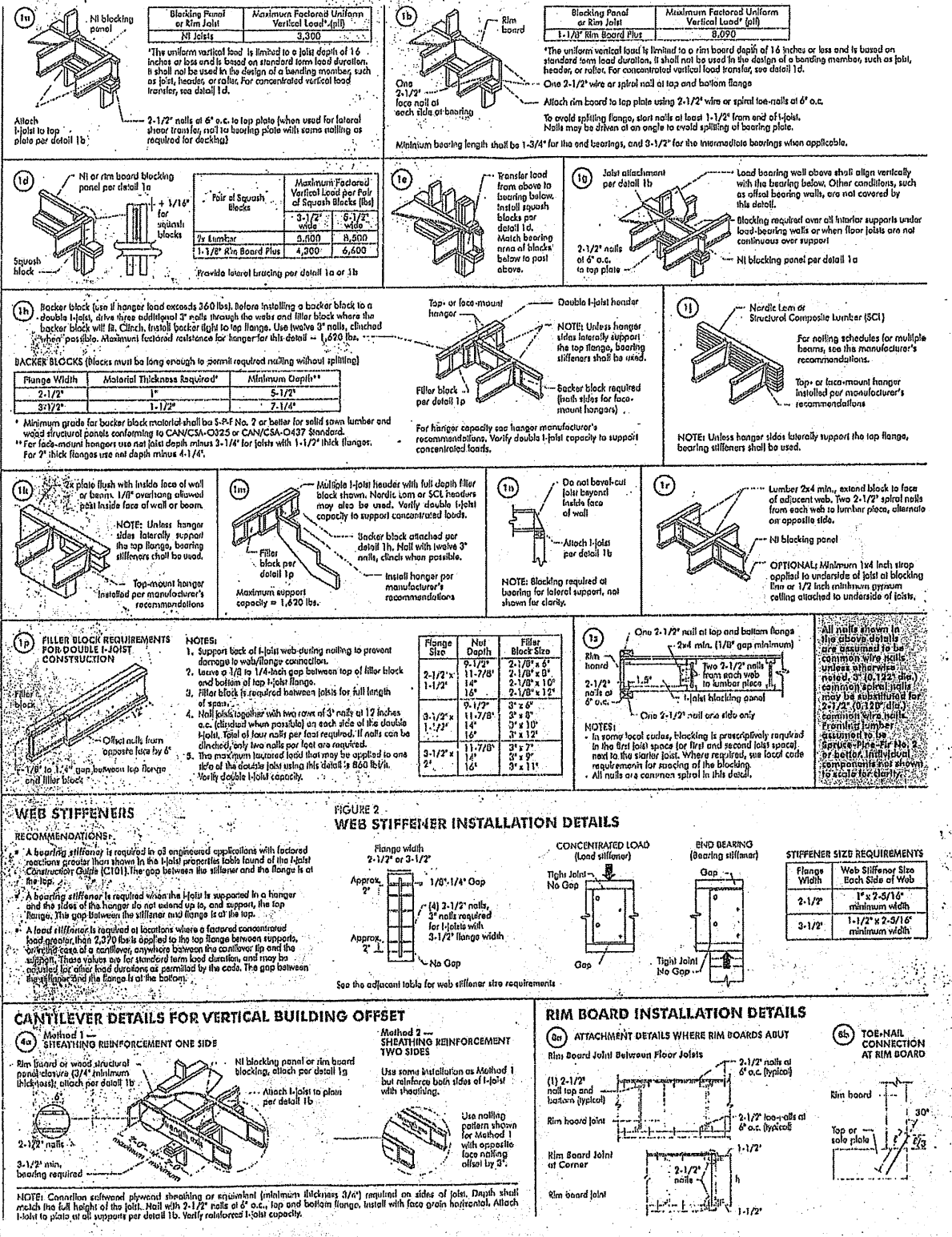
The construction details for residential designs are prone to changes.

Details released after September 2013 supersede N-303

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



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Customer: **Gold Park Homes**
Job Address: **Pine Valley Ph2**
City: **Vaughan**
Job Track: **45147**

Job Name: **343073 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B1 - i50586**
Type: **Beam**

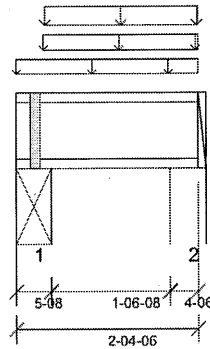
1 Ply Member
11 7/8" NI-20

Status:
Design Passed

Illustration Not to Scale. Pitch: 0/12

Designed by Single Member Design Engine in MiTek® Structure Version 8.5.3.233.Update5.15

Report Version: 2021.03.26 04/01/2022 16:42



DESIGN INFORMATION

Building Code: NBCC 2015, Part9, BCBC 2018, ABC 2019, OBC 2012 (2019 Amendment)

Design Methodology: LSD
Service Condition: Dry
LL Deflection Limit: L/360,
TL Deflection Limit: L/240,

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 6 1/2"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 4 1/2"
- 615 psi Wall @ 2'- 1"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	1'- 2 7/16"	1.25D + 1.5L	0.65	58 lb ft	3649 lb ft	Passed - 2%
Factored Shear:	1'- 11 15/16"	1.25D + 1.5L	0.65	135 lb	1465 lb	Passed - 9%

SUPPORT AND REACTION INFORMATION

ID	Input Bearing Length	Controlling Load Combination	LDF	Factored Downward Reaction	Factored Uplift Reaction	Factored Resistance of Member	Factored Resistance of Support	Result
1	5-08	1.25D + 1.5L	0.65	147 lb		1465 lb	6914 lb	Passed - 10%
2	4-06	1.25D + 1.5L	0.65	203 lb		1465 lb	4400 lb	Passed - 14%

SPECIFIED LOADS

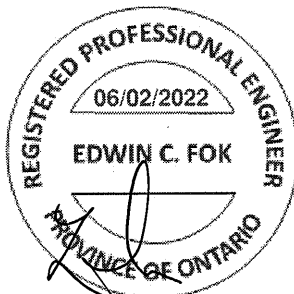
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	2'- 4 3/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	2'- 4 3/8"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	4 lb/ft	-	-
Uniform	0'- 4 1/4"	2'- 4 3/8"	FC2 Floor Decking (Plan View Fill)	Top	6 lb/ft	17 lb/ft	-	-
Uniform	0'- 4 1/2"	2'- 4 3/8"	E26(41636)	Top	101 lb/ft	-	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	ST. BEAM (DR.)(41693)	95 lb	20 lb	-	-
2	2'	2'- 4 3/8"	E9(41609)	130 lb	26 lb	-	-

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if required) as per manufacturer's instruction.
- When the applied loads are coming from a member/post/wall above that does not sit directly on this beam, adequate load transfer elements, such as squash blocks, wall studs, or beveled plates are required to transfer the loads to this beam.



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