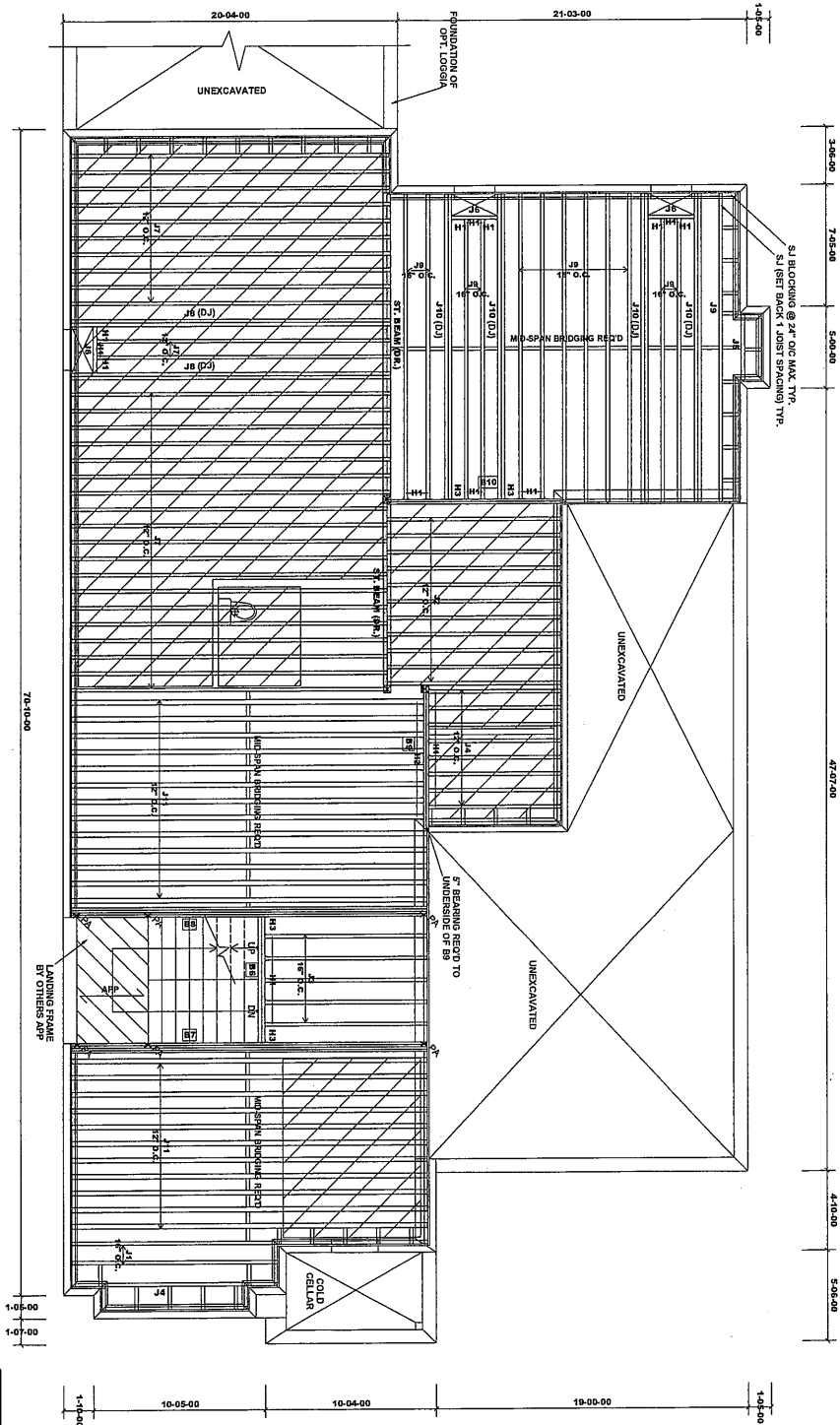


Part	Length	Product	Plus	Net Qty
B6	8-00-00	11/16" N-20	2	2
B7	22-00-00	1 3/4" x 11/16" 1.55E TimberStrand LSL	4	4
B8	8-00-00	1 3/4" x 11/16" 1.55E TimberStrand LSL	2	2
B10	11-00-00	1 3/4" x 11/16" 1.55E TimberStrand LSL	2	2
J1	13-00-00	11/16" N-20	1	1
J2	10-00-00	11/16" N-20	1	1
J3	10-00-00	11/16" N-20	1	1
J4	4-00-00	11/16" N-20	1	1
J5	4-00-00	11/16" N-20	1	1
J6	20-00-00	11/16" N-20	1	1
J7	20-00-00	11/16" N-20	1	1
J8	20-00-00	11/16" N-40x	1	1
J9	18-00-00	11/16" N-40x	1	1
J10	18-00-00	11/16" N-40x	1	1
J11	20-00-00	11/16" N-20	1	1
J12	20-00-00	11/16" N-20	1	1
B11	107-00-00	11/16" N-20	1	1

Part	Quantity	Material	Notes
H1	31	L75S1188	
H2	8	L75S1188	
H3	4	M731188-2	



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION A

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

HATCH LEGEND
Ceramic Tile
Conv Framed

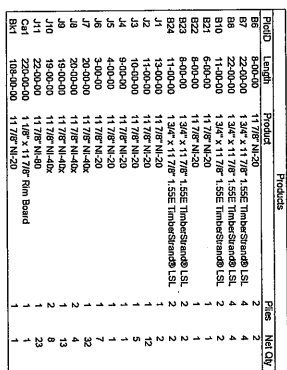
APP - AS PER PLAN
BBO - BEAM BY OTHERS
PA - POST ABOVE
OTB - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/16" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

Blocking panels are required over all interior
Squeak blocks are required under concentrated
loads.
Ceramic Tile Application as per O.B.C. 9.30.5
Provide I-joist blocking between cantilevered
joists (along bearing) and imbedded closure at
ends.
Do not scale - refer to architectural plans for
dimensions.

JT/PL: 45147/116409
LI: 343074*

Builder: Gold Park Homes
Project: Pine Valley Ph2
Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL
Sheet: 1 of 24
Alpa Roof Trusses Inc.
Stouffville, Ontario
Salesperson: Derek F.
Home Lumber Inc.



Connector Summary			
PtID	Qty	Manuf	Product
H1	1		HGUS410
H2	30		LT251188
H3	7		LT351188
H4	4		MIT311-88-2

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 - 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.
Snauch blocks are required under concentrated loads.

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

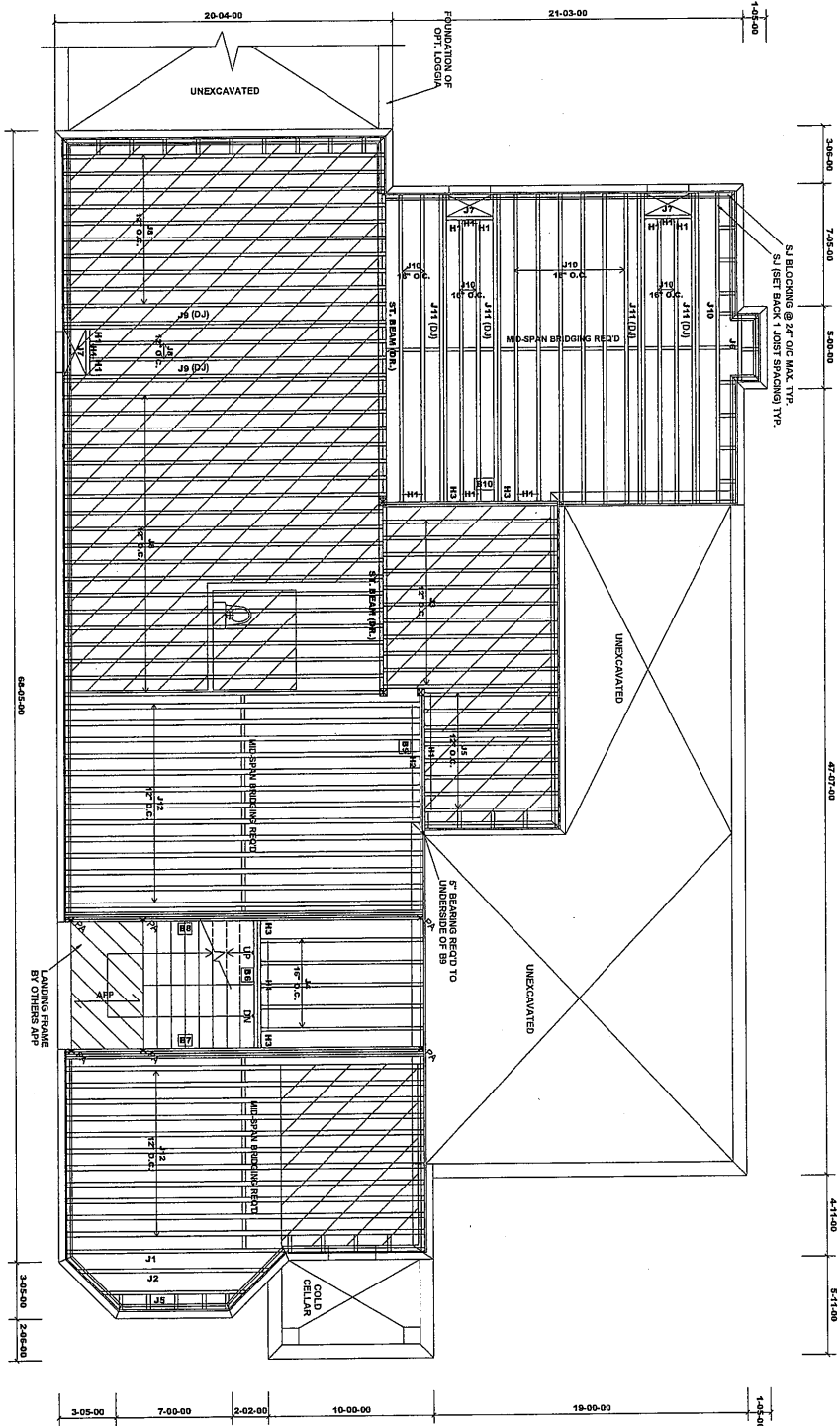
Provide 1-loist blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Do not scale - refer to architectural plans for dimensions.

Salesperson: Derek F. Home Lumber Inc.

Predicts			
Field	Length	Product	Piles - Net Qty
B8	8-00-00	11/78 N-20	2
B9	8-00-00	11/78 N-20	2
B10	22-00-00	1 3/4" x 11/78 1.55E Timberstrand LSL	4
B11	8-00-00	1 3/4" x 11/78 1.55E Timberstrand LSL	2
B12	11-00-00	1 3/4" x 11/78 1.55E Timberstrand LSL	2
B13	11-00-00	11/78 N-20	2
B14	11-00-00	11/78 N-20	2
B15	11-00-00	11/78 N-20	2
B16	11-00-00	11/78 N-20	2
B17	11-00-00	11/78 N-20	2
B18	11-00-00	11/78 N-20	2
B19	11-00-00	11/78 N-20	2
B20	11-00-00	11/78 N-20	2
B21	11-00-00	11/78 N-20	2
B22	11-00-00	11/78 N-20	2
B23	11-00-00	11/78 N-20	2
B24	11-00-00	11/78 N-20	2
B25	11-00-00	11/78 N-20	2
B26	11-00-00	11/78 N-20	2
B27	11-00-00	11/78 N-20	2
B28	11-00-00	11/78 N-20	2
B29	11-00-00	11/78 N-20	2
B30	11-00-00	11/78 N-20	2
B31	11-00-00	11/78 N-20	2
B32	11-00-00	11/78 N-20	2
B33	11-00-00	11/78 N-20	2
B34	11-00-00	11/78 N-20	2
B35	11-00-00	11/78 N-20	2
B36	11-00-00	11/78 N-20	2
B37	11-00-00	11/78 N-20	2
B38	11-00-00	11/78 N-20	2
B39	11-00-00	11/78 N-20	2
B40	11-00-00	11/78 N-20	2
B41	11-00-00	11/78 N-20	2
B42	11-00-00	11/78 N-20	2
B43	11-00-00	11/78 N-20	2
B44	11-00-00	11/78 N-20	2
B45	11-00-00	11/78 N-20	2
B46	11-00-00	11/78 N-20	2
B47	11-00-00	11/78 N-20	2
B48	11-00-00	11/78 N-20	2
B49	11-00-00	11/78 N-20	2
B50	11-00-00	11/78 N-20	2
B51	11-00-00	11/78 N-20	2
B52	11-00-00	11/78 N-20	2
B53	11-00-00	11/78 N-20	2
B54	11-00-00	11/78 N-20	2
B55	11-00-00	11/78 N-20	2
B56	11-00-00	11/78 N-20	2
B57	11-00-00	11/78 N-20	2
B58	11-00-00	11/78 N-20	2
B59	11-00-00	11/78 N-20	2
B60	11-00-00	11/78 N-20	2
B61	11-00-00	11/78 N-20	2
B62	11-00-00	11/78 N-20	2
B63	11-00-00	11/78 N-20	2
B64	11-00-00	11/78 N-20	2
B65	11-00-00	11/78 N-20	2
B66	11-00-00	11/78 N-20	2
B67	11-00-00	11/78 N-20	2
B68	11-00-00	11/78 N-20	2
B69	11-00-00	11/78 N-20	2
B70	11-00-00	11/78 N-20	2
B71	11-00-00	11/78 N-20	2
B72	11-00-00	11/78 N-20	2
B73	11-00-00	11/78 N-20	2
B74	11-00-00	11/78 N-20	2
B75	11-00-00	11/78 N-20	2
B76	11-00-00	11/78 N-20	2
B77	11-00-00	11/78 N-20	2
B78	11-00-00	11/78 N-20	2
B79	11-00-00	11/78 N-20	2
B80	11-00-00	11/78 N-20	2
B81	11-00-00	11/78 N-20	2
B82	11-00-00	11/78 N-20	2
B83	11-00-00	11/78 N-20	2
B84	11-00-00	11/78 N-20	2
B85	11-00-00	11/78 N-20	2
B86	11-00-00	11/78 N-20	2
B87	11-00-00	11/78 N-20	2
B88	11-00-00	11/78 N-20	2
B89	11-00-00	11/78 N-20	2
B90	11-00-00	11/78 N-20	2
B91	11-00-00	11/78 N-20	2
B92	11-00-00	11/78 N-20	2
B93	11-00-00	11/78 N-20	2
B94	11-00-00	11/78 N-20	2
B95	11-00-00	11/78 N-20	2
B96	11-00-00	11/78 N-20	2
B97	11-00-00	11/78 N-20	2
B98	11-00-00	11/78 N-20	2
B99	11-00-00	11/78 N-20	2
B100	11-00-00	11/78 N-20	2

Connected Summary			
Field	Qty	Material	Product
H1	31	N-20	1.55E Timberstrand LSL
H2	8	N-20	1.55E Timberstrand LSL
H3	4	N-20	1.55E Timberstrand LSL
H4	4	N-20	1.55E Timberstrand LSL



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION B

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

HATCH LEGEND
Ceramic Tile
Conv Framed

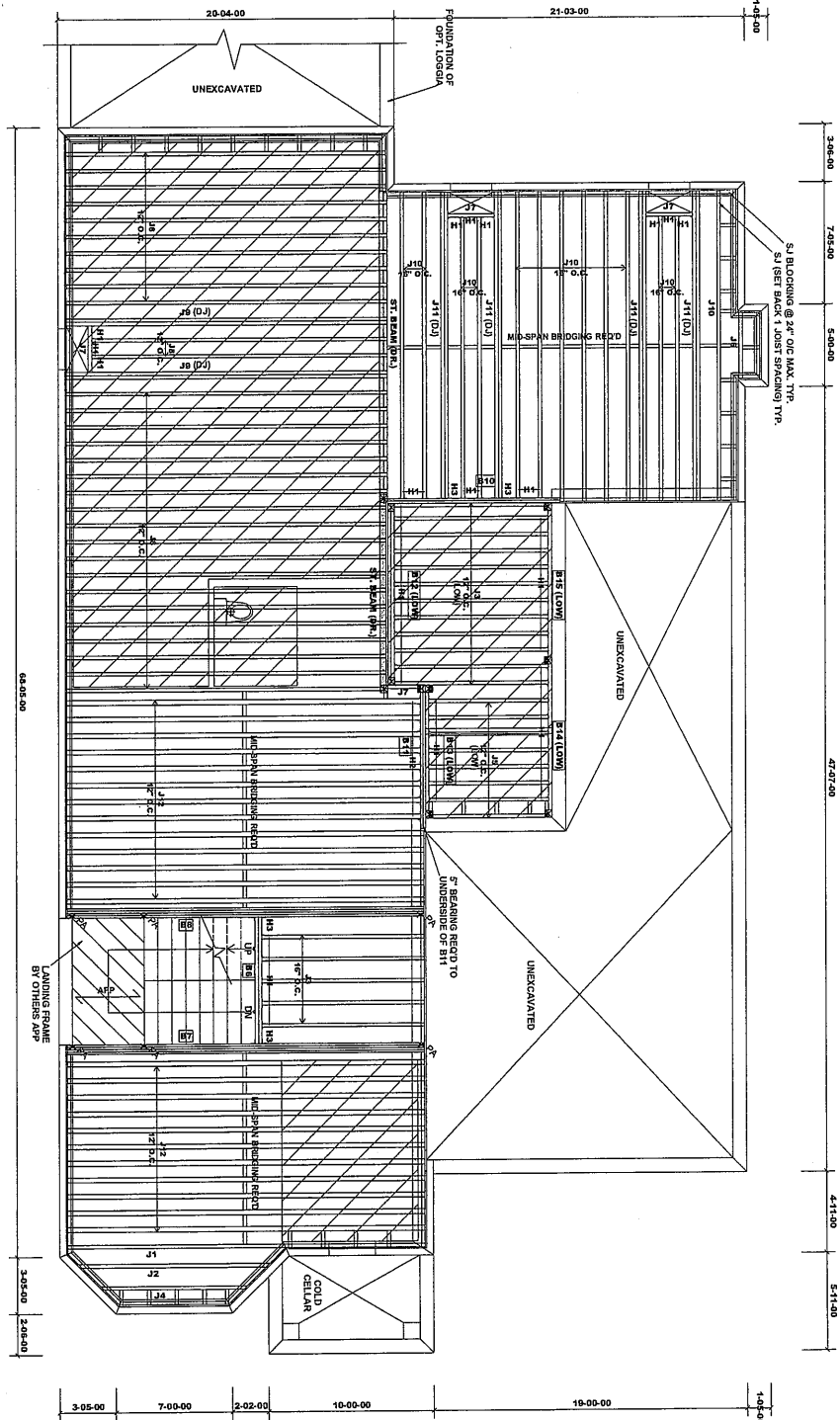
APP - AS PER PLAN
BBO - BEAM BY OTHERS
PA - POST ABOVE
TR - TRUSS ABOVE
GT - GIRDER TRUSS
RT - ROOF TRUSS
RIMBOARD
1-1/2" X 11/78" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.C. 9.20.6
Provide 1-1/2" blocking between cantilevered ends (along bearing) and inboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

JT/PL: 45147/116409
 LI: 343074*

Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 21, 2022

Designer: TL
 Sheet: 5 of 24
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
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

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

Bricking 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) steel blocking between cantilevered joist (bearing) and imbedded closure at ends.

Do not scale - refer to architectural plans for dimensions.

Field	Qty	Material	Product
H1	60	L251188	
H2	8	M131188.2	
H3	4	M131188.2	

Field	Length	Product	Units	Qty
B6	14'-00-00	11/78" N-20	2	2
B7	22'-00-00	1 3/4" x 11/78" 155E TimberStrand LSL	4	4
B8	22'-00-00	1 3/4" x 11/78" 155E TimberStrand LSL	2	2
B9	11'-00-00	1 3/4" x 11/78" 155E TimberStrand LSL	2	2
B10	11'-00-00	1 3/4" x 11/78" 155E TimberStrand LSL	2	2
B11	11'-00-00	1 3/4" x 11/78" 155E TimberStrand LSL	2	2
B12 (LOW)	13'-00-00	11/78" N-20	2	2
B13 (LOW)	13'-00-00	11/78" N-20	2	2
B14 (LOW)	10'-00-00	11/78" N-20	1	1
B15 (LOW)	10'-00-00	11/78" N-20	1	1
J1	14'-00-00	11/78" N-20	1	1
J2	14'-00-00	11/78" N-20	1	1
J3	14'-00-00	11/78" N-20	1	1
J4	14'-00-00	11/78" N-20	1	1
J5	14'-00-00	11/78" N-20	1	1
J6	14'-00-00	11/78" N-20	1	1
J7	14'-00-00	11/78" N-20	1	1
J8	14'-00-00	11/78" N-20	1	1
J9	14'-00-00	11/78" N-20	1	1
J10	14'-00-00	11/78" N-20	1	1
J11	14'-00-00	11/78" N-20	1	1
J12	14'-00-00	11/78" N-20	1	1
C1	14'-00-00	11/78" N-20	1	1
C2	14'-00-00	11/78" N-20	1	1
C3	14'-00-00	11/78" N-20	1	1
C4	14'-00-00	11/78" N-20	1	1
C5	14'-00-00	11/78" N-20	1	1
C6	14'-00-00	11/78" N-20	1	1
C7	14'-00-00	11/78" N-20	1	1
C8	14'-00-00	11/78" N-20	1	1
C9	14'-00-00	11/78" N-20	1	1
C10	14'-00-00	11/78" N-20	1	1
C11	14'-00-00	11/78" N-20	1	1
C12	14'-00-00	11/78" N-20	1	1
C13	14'-00-00	11/78" N-20	1	1
C14	14'-00-00	11/78" N-20	1	1
C15	14'-00-00	11/78" N-20	1	1
C16	14'-00-00	11/78" N-20	1	1
C17	14'-00-00	11/78" N-20	1	1
C18	14'-00-00	11/78" N-20	1	1
C19	14'-00-00	11/78" N-20	1	1
C20	14'-00-00	11/78" N-20	1	1
C21	14'-00-00	11/78" N-20	1	1
C22	14'-00-00	11/78" N-20	1	1
C23	14'-00-00	11/78" N-20	1	1
C24	14'-00-00	11/78" N-20	1	1
C25	14'-00-00	11/78" N-20	1	1
C26	14'-00-00	11/78" N-20	1	1
C27	14'-00-00	11/78" N-20	1	1
C28	14'-00-00	11/78" N-20	1	1
C29	14'-00-00	11/78" N-20	1	1
C30	14'-00-00	11/78" N-20	1	1
C31	14'-00-00	11/78" N-20	1	1
C32	14'-00-00	11/78" N-20	1	1
C33	14'-00-00	11/78" N-20	1	1
C34	14'-00-00	11/78" N-20	1	1
C35	14'-00-00	11/78" N-20	1	1
C36	14'-00-00	11/78" N-20	1	1
C37	14'-00-00	11/78" N-20	1	1
C38	14'-00-00	11/78" N-20	1	1
C39	14'-00-00	11/78" N-20	1	1
C40	14'-00-00	11/78" N-20	1	1
C41	14'-00-00	11/78" N-20	1	1
C42	14'-00-00	11/78" N-20	1	1
C43	14'-00-00	11/78" N-20	1	1
C44	14'-00-00	11/78" N-20	1	1
C45	14'-00-00	11/78" N-20	1	1
C46	14'-00-00	11/78" N-20	1	1
C47	14'-00-00	11/78" N-20	1	1
C48	14'-00-00	11/78" N-20	1	1
C49	14'-00-00	11/78" N-20	1	1
C50	14'-00-00	11/78" N-20	1	1
C51	14'-00-00	11/78" N-20	1	1
C52	14'-00-00	11/78" N-20	1	1
C53	14'-00-00	11/78" N-20	1	1
C54	14'-00-00	11/78" N-20	1	1
C55	14'-00-00	11/78" N-20	1	1
C56	14'-00-00	11/78" N-20	1	1
C57	14'-00-00	11/78" N-20	1	1
C58	14'-00-00	11/78" N-20	1	1
C59	14'-00-00	11/78" N-20	1	1
C60	14'-00-00	11/78" N-20	1	1
C61	14'-00-00	11/78" N-20	1	1
C62	14'-00-00	11/78" N-20	1	1
C63	14'-00-00	11/78" N-20	1	1
C64	14'-00-00	11/78" N-20	1	1
C65	14'-00-00	11/78" N-20	1	1
C66	14'-00-00	11/78" N-20	1	1
C67	14'-00-00	11/78" N-20	1	1
C68	14'-00-00	11/78" N-20	1	1
C69	14'-00-00	11/78" N-20	1	1
C70	14'-00-00	11/78" N-20	1	1
C71	14'-00-00	11/78" N-20	1	1
C72	14'-00-00	11/78" N-20	1	1
C73	14'-00-00	11/78" N-20	1	1
C74	14'-00-00	11/78" N-20	1	1
C75	14'-00-00	11/78" N-20	1	1
C76	14'-00-00	11/78" N-20	1	1
C77	14'-00-00	11/78" N-20	1	1
C78	14'-00-00	11/78" N-20	1	1
C79	14'-00-00	11/78" N-20	1	1
C80	14'-00-00	11/78" N-20	1	1
C81	14'-00-00	11/78" N-20	1	1
C82	14'-00-00	11/78" N-20	1	1
C83	14'-00-00	11/78" N-20	1	1
C84	14'-00-00	11/78" N-20	1	1
C85	14'-00-00	11/78" N-20	1	1
C86	14'-00-00	11/78" N-20	1	1
C87	14'-00-00	11/78" N-20	1	1
C88	14'-00-00	11/78" N-20	1	1
C89	14'-00-00	11/78" N-20	1	1
C90	14'-00-00	11/78" N-20	1	1
C91	14'-00-00	11/78" N-20	1	1
C92	14'-00-00	11/78" N-20	1	1
C93	14'-00-00	11/78" N-20	1	1
C94	14'-00-00	11/78" N-20	1	1
C95	14'-00-00	11/78" N-20	1	1
C96	14'-00-00	11/78" N-20	1	1
C97	14'-00-00	11/78" N-20	1	1
C98	14'-00-00	11/78" N-20	1	1
C99	14'-00-00	11/78" N-20	1	1
C100	14'-00-00	11/78" N-20	1	1

JT/PL: 45147/116409
 LI: 343074*

Builder: Gold Park Homes
 Project: Pine Valley Ph2

Location: Vaughan, ON
 Date: Apr. 21, 2022

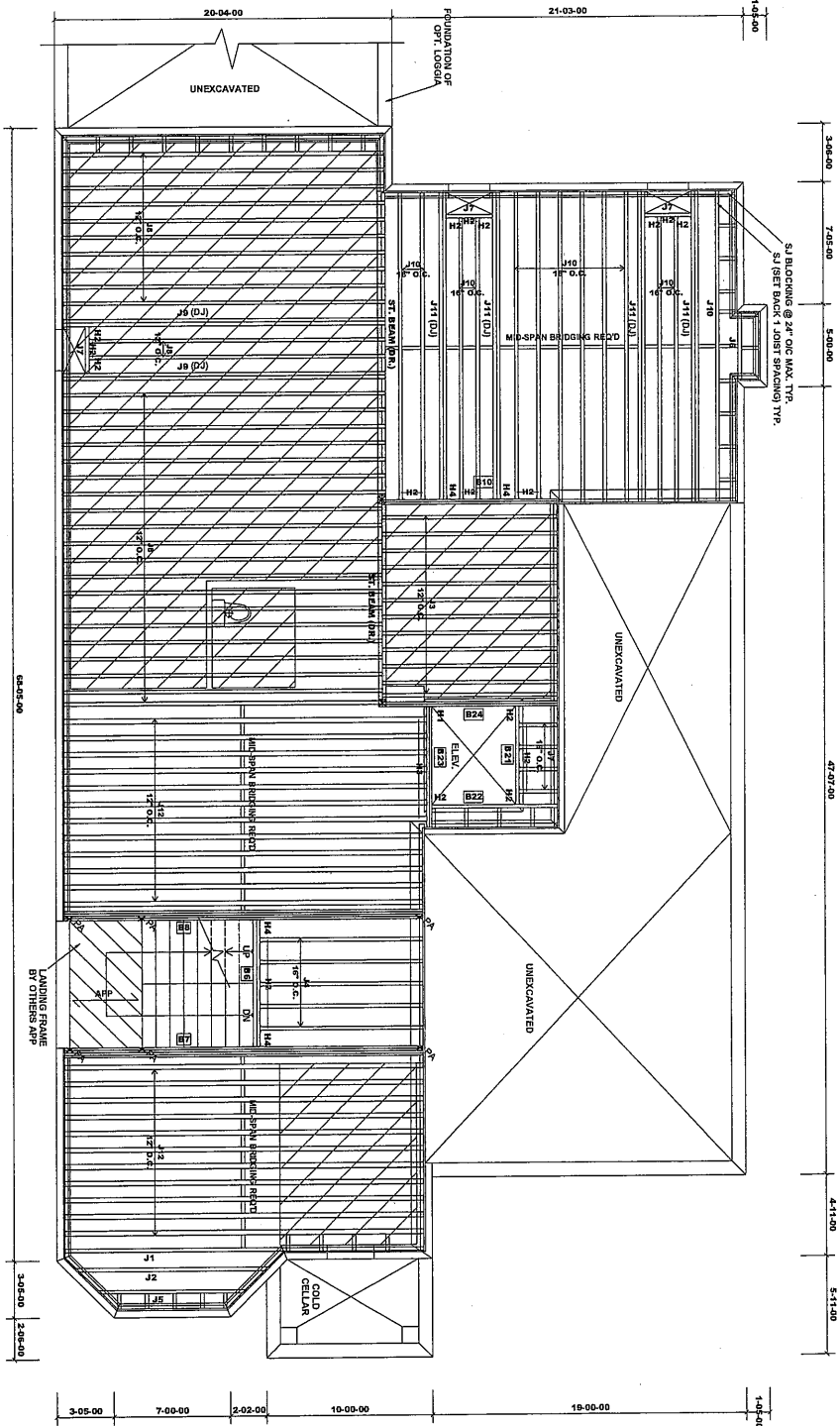
Designer: TL
 Sheet: 6 of 24

Alpa Roof Trusses Inc.
 Stouffville, Ontario

Salesperson: Derek F.
 Home Lumber Inc.

Part	Length	Product	Piles	Nd Qty
B6	6-00-00	11/76" N-20	2	2
B7	22-00-00	1 3/4" x 11/76" 1.555 TimberStrand® SL	4	4
B8	22-00-00	1 3/4" x 11/76" 1.555 TimberStrand® SL	4	4
B9	11-00-00	1 3/4" x 11/76" 1.555 TimberStrand® SL	2	2
B10	11-00-00	1 3/4" x 11/76" 1.555 TimberStrand® SL	2	2
B21	6-00-00	11/76" N-20	1	1
B22	6-00-00	11/76" N-20	1	1
B23	6-00-00	11/76" N-20	1	1
B24	6-00-00	11/76" N-20	1	1
J1	14-00-00	1 3/4" x 11/76" 1.555 TimberStrand® SL	2	2
J2	12-00-00	11/76" N-20	1	1
J3	12-00-00	11/76" N-20	1	1
J4	10-00-00	11/76" N-20	1	1
J5	9-00-00	11/76" N-20	1	1
J6	4-00-00	11/76" N-20	1	1
J7	4-00-00	11/76" N-20	1	1
J8	20-00-00	11/76" N-40x	2	2
J9	20-00-00	11/76" N-40x	2	2
J10	19-00-00	11/76" N-40x	2	2
J11	18-00-00	11/76" N-40x	2	2
J12	22-00-00	11/76" N-40x	2	2
C41	215-00-00	1 1/8" x 11/76" Rim Board	1	1
B41	99-00-00	11/76" N-20	1	1

Part	Qty	Material	Product
H1	1	160US-10	160US-10
H2	30	1725-188	1725-188
H3	10	1725-188	1725-188
H4	4	MT311-85-2	MT311-85-2



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION B
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
BBO - BEAM BY OTHERS
PA - POST ABOVE
OTB - OPEN TO BELOW
OTB - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11/76" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

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 I-Joist blocking between cantilevered joists (blocking bearing) and inboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

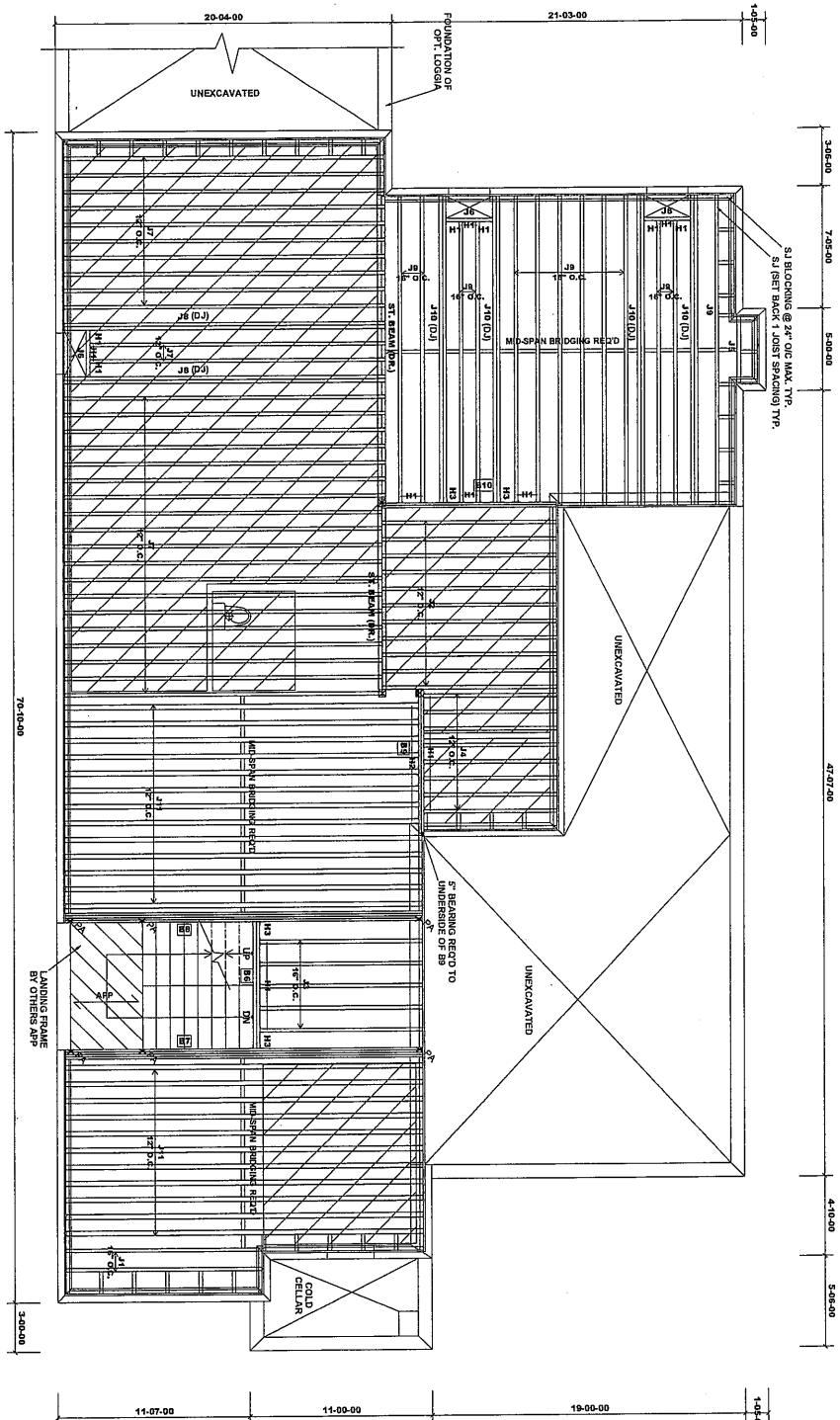
JT/PL: 45147/116409
LI: 343074*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL
Sheet: 7 of 24
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
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
BBO - BEAM BY OTHERS
PA - POST ABOVE
O.T.B - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SUBFLOOR: 3/4" NAILER & GUEP

Blocking panels are required over all interior
Squash blocks are required under concentrated
loads.
Ceramic Tile Application as per O.C. 9.305
Provide (Joist blocking between cantilevered
joists (along bearing) and rimboard closure at
ends.
Do not scale - refer to architectural plans for
dimensions.

Item	Length	Product	Units	Qty
B1	6-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B2	22-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	4	4
B3	22-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B4	22-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B5	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B6	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B7	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B8	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B9	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
B10	11-00-00	1 3/4" x 11 7/8" 155E TimberStrand LSL	2	2
J1	12-00-00	1 7/8" N-20	1	1
J2	12-00-00	1 7/8" N-20	1	1
J3	12-00-00	1 7/8" N-20	1	1
J4	12-00-00	1 7/8" N-20	1	1
J5	12-00-00	1 7/8" N-20	1	1
J6	12-00-00	1 7/8" N-20	1	1
J7	12-00-00	1 7/8" N-20	1	1
J8	12-00-00	1 7/8" N-20	1	1
J9	12-00-00	1 7/8" N-20	1	1
J10	12-00-00	1 7/8" N-20	1	1
C1	12-00-00	1 7/8" N-20	1	1
C2	12-00-00	1 7/8" N-20	1	1
C3	12-00-00	1 7/8" N-20	1	1
C4	12-00-00	1 7/8" N-20	1	1
C5	12-00-00	1 7/8" N-20	1	1
C6	12-00-00	1 7/8" N-20	1	1
C7	12-00-00	1 7/8" N-20	1	1
C8	12-00-00	1 7/8" N-20	1	1
C9	12-00-00	1 7/8" N-20	1	1
C10	12-00-00	1 7/8" N-20	1	1
C11	12-00-00	1 7/8" N-20	1	1
C12	12-00-00	1 7/8" N-20	1	1
C13	12-00-00	1 7/8" N-20	1	1
C14	12-00-00	1 7/8" N-20	1	1
C15	12-00-00	1 7/8" N-20	1	1
C16	12-00-00	1 7/8" N-20	1	1
C17	12-00-00	1 7/8" N-20	1	1
C18	12-00-00	1 7/8" N-20	1	1
C19	12-00-00	1 7/8" N-20	1	1
C20	12-00-00	1 7/8" N-20	1	1
C21	12-00-00	1 7/8" N-20	1	1
C22	12-00-00	1 7/8" N-20	1	1
C23	12-00-00	1 7/8" N-20	1	1
C24	12-00-00	1 7/8" N-20	1	1
C25	12-00-00	1 7/8" N-20	1	1
C26	12-00-00	1 7/8" N-20	1	1
C27	12-00-00	1 7/8" N-20	1	1
C28	12-00-00	1 7/8" N-20	1	1
C29	12-00-00	1 7/8" N-20	1	1
C30	12-00-00	1 7/8" N-20	1	1
C31	12-00-00	1 7/8" N-20	1	1
C32	12-00-00	1 7/8" N-20	1	1
C33	12-00-00	1 7/8" N-20	1	1
C34	12-00-00	1 7/8" N-20	1	1
C35	12-00-00	1 7/8" N-20	1	1
C36	12-00-00	1 7/8" N-20	1	1
C37	12-00-00	1 7/8" N-20	1	1
C38	12-00-00	1 7/8" N-20	1	1
C39	12-00-00	1 7/8" N-20	1	1
C40	12-00-00	1 7/8" N-20	1	1
C41	12-00-00	1 7/8" N-20	1	1
C42	12-00-00	1 7/8" N-20	1	1
C43	12-00-00	1 7/8" N-20	1	1
C44	12-00-00	1 7/8" N-20	1	1
C45	12-00-00	1 7/8" N-20	1	1
C46	12-00-00	1 7/8" N-20	1	1
C47	12-00-00	1 7/8" N-20	1	1
C48	12-00-00	1 7/8" N-20	1	1
C49	12-00-00	1 7/8" N-20	1	1
C50	12-00-00	1 7/8" N-20	1	1
C51	12-00-00	1 7/8" N-20	1	1
C52	12-00-00	1 7/8" N-20	1	1
C53	12-00-00	1 7/8" N-20	1	1
C54	12-00-00	1 7/8" N-20	1	1
C55	12-00-00	1 7/8" N-20	1	1
C56	12-00-00	1 7/8" N-20	1	1
C57	12-00-00	1 7/8" N-20	1	1
C58	12-00-00	1 7/8" N-20	1	1
C59	12-00-00	1 7/8" N-20	1	1
C60	12-00-00	1 7/8" N-20	1	1
C61	12-00-00	1 7/8" N-20	1	1
C62	12-00-00	1 7/8" N-20	1	1
C63	12-00-00	1 7/8" N-20	1	1
C64	12-00-00	1 7/8" N-20	1	1
C65	12-00-00	1 7/8" N-20	1	1
C66	12-00-00	1 7/8" N-20	1	1
C67	12-00-00	1 7/8" N-20	1	1
C68	12-00-00	1 7/8" N-20	1	1
C69	12-00-00	1 7/8" N-20	1	1
C70	12-00-00	1 7/8" N-20	1	1
C71	12-00-00	1 7/8" N-20	1	1
C72	12-00-00	1 7/8" N-20	1	1
C73	12-00-00	1 7/8" N-20	1	1
C74	12-00-00	1 7/8" N-20	1	1
C75	12-00-00	1 7/8" N-20	1	1
C76	12-00-00	1 7/8" N-20	1	1
C77	12-00-00	1 7/8" N-20	1	1
C78	12-00-00	1 7/8" N-20	1	1
C79	12-00-00	1 7/8" N-20	1	1
C80	12-00-00	1 7/8" N-20	1	1
C81	12-00-00	1 7/8" N-20	1	1
C82	12-00-00	1 7/8" N-20	1	1
C83	12-00-00	1 7/8" N-20	1	1
C84	12-00-00	1 7/8" N-20	1	1
C85	12-00-00	1 7/8" N-20	1	1
C86	12-00-00	1 7/8" N-20	1	1
C87	12-00-00	1 7/8" N-20	1	1
C88	12-00-00	1 7/8" N-20	1	1
C89	12-00-00	1 7/8" N-20	1	1
C90	12-00-00	1 7/8" N-20	1	1
C91	12-00-00	1 7/8" N-20	1	1
C92	12-00-00	1 7/8" N-20	1	1
C93	12-00-00	1 7/8" N-20	1	1
C94	12-00-00	1 7/8" N-20	1	1
C95	12-00-00	1 7/8" N-20	1	1
C96	12-00-00	1 7/8" N-20	1	1
C97	12-00-00	1 7/8" N-20	1	1
C98	12-00-00	1 7/8" N-20	1	1
C99	12-00-00	1 7/8" N-20	1	1
C100	12-00-00	1 7/8" N-20	1	1

Connector Summary			
PileID	Qty	Manuf	Product
H1	31		L7251188
H2	8		L7351188
H3	4		MT311.88-2

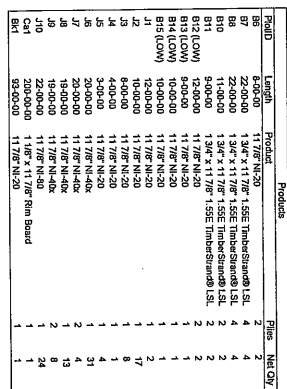
JT/PL: 45147/116409
LI: 343074*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL
Sheet: 9 of 24

Salesperson: Derek F.
Home Lumber Inc.



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION C
W/ SUNKEN MUDROOM

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 - 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

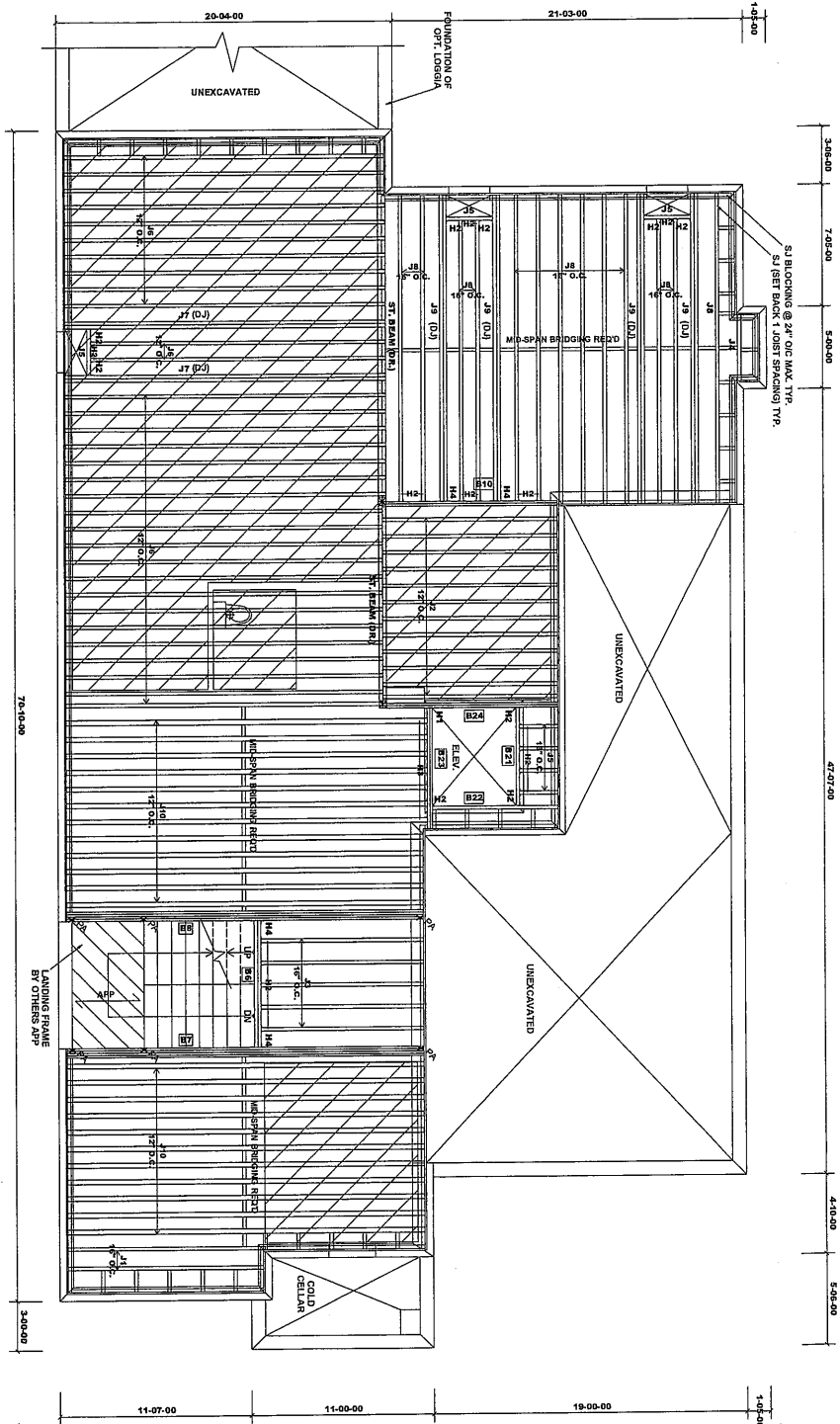
SUBFLOOR: 3/4" NAILED & GLUED

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

Salesperson: Derek F.
Home Lumber Inc.

Field	Length	Product	Plates	Net Qty
B6	6'-0"-00	11/78" N-20	2	2
B7	22'-0"-00	1 3/4" x 11/78" 155E TimberStrand LSL	4	4
B8	22'-0"-00	1 3/4" x 11/78" 155E TimberStrand LSL	4	4
B9	22'-0"-00	1 3/4" x 11/78" 155E TimberStrand LSL	4	4
B21	6'-0"-00	11/78" N-20	1	1
B22	6'-0"-00	11/78" N-20	1	1
B23	6'-0"-00	1 3/4" x 11/78" 155E TimberStrand LSL	2	2
J1	12'-0"-00	11/78" N-20	1	1
J2	11'-0"-00	11/78" N-20	1	1
J3	10'-0"-00	11/78" N-20	1	1
J4	10'-0"-00	11/78" N-20	1	1
J5	3'-0"-00	11/78" N-20	1	1
J6	20'-0"-00	11/78" N-40x	1	32
J7	20'-0"-00	11/78" N-40x	2	4
J8	18'-0"-00	11/78" N-40x	2	8
J10	22'-0"-00	11/78" N-40	1	23
C41	10'-0"-00	1 1/8" x 11/78" Rim Band	1	1
C41	10'-0"-00	11/78" N-20	1	1

Field	Qty	Manuf	Product
H1	1		H252410
H2	30		L7351188
H4	4		M1731189-2



GROUND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION C
W/ ELEVATOR

FLOOR LOADING
DEAD LOAD - 15 PSF
CEILING LOAD - 10 PSF
DEAD LOAD (TILE) 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

155E - AS PER PLAN
B6D - B6D ONLY
PA - POST ABOVE
OT - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11-7/8" O.S.B
SURFLOOR: 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. 9.30.5. Provide 1x6 blocking between cantilevered joists (along bearing) and rimboard closure at ends. Do not scale - refer to architectural plans for dimensions.

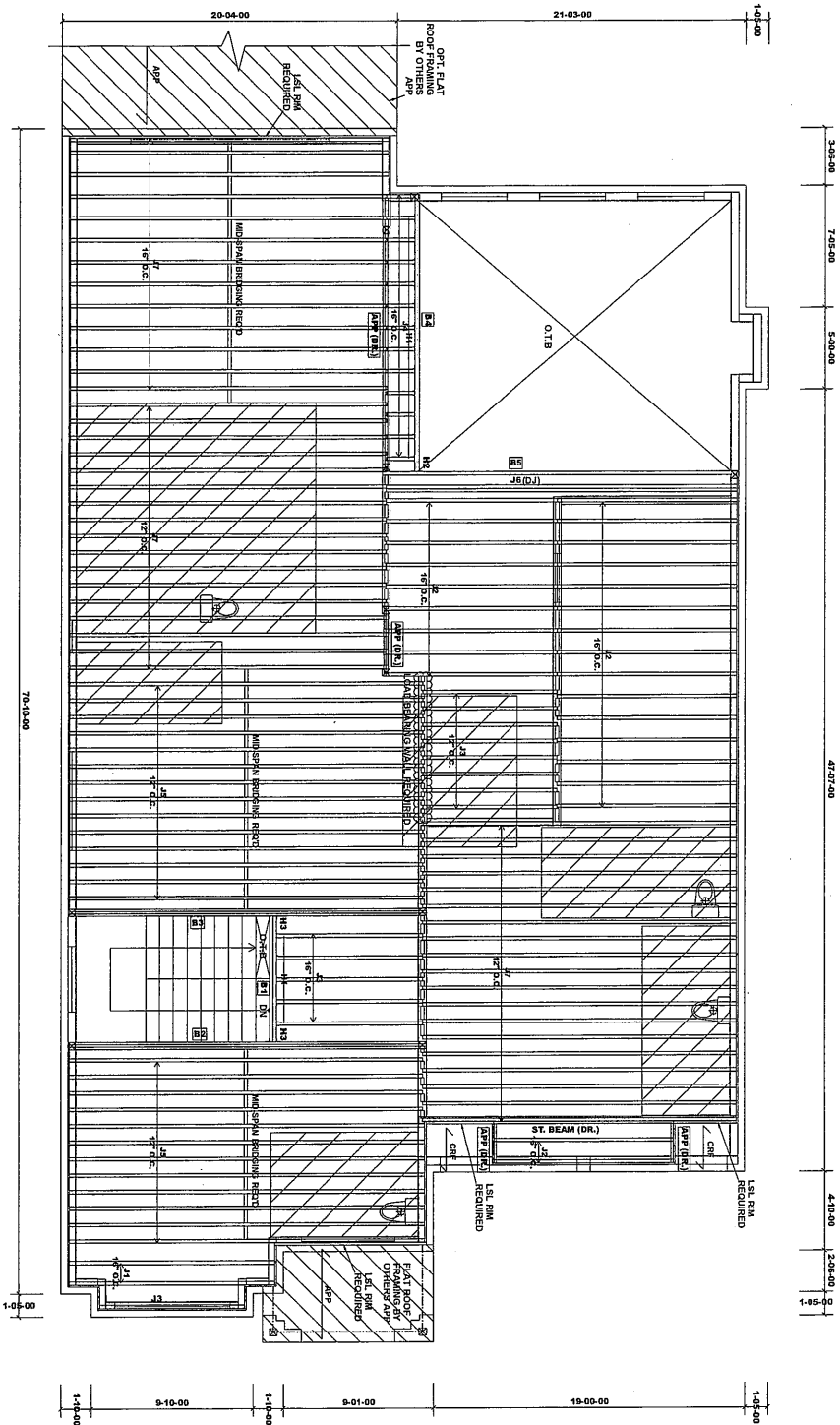
JT/PL: 45147/116409
LI: 343074*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL
Sheet: 11 of 24
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.



Item	Length	Product	Qty	Unit	Notes
B1	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B2	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B3	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B4	17.00-00	1 1/2\" N-40	1	1	
B5	17.00-00	1 1/2\" N-40	1	1	
B6	13.00-00	1 1/2\" N-40	1	1	
B7	13.00-00	1 1/2\" N-40	1	1	
B8	13.00-00	1 1/2\" N-40	1	1	
B9	13.00-00	1 1/2\" N-40	1	1	
B10	13.00-00	1 1/2\" N-40	1	1	
B11	13.00-00	1 1/2\" N-40	1	1	
B12	13.00-00	1 1/2\" N-40	1	1	
B13	13.00-00	1 1/2\" N-40	1	1	
B14	13.00-00	1 1/2\" N-40	1	1	
B15	13.00-00	1 1/2\" N-40	1	1	
B16	13.00-00	1 1/2\" N-40	1	1	
B17	13.00-00	1 1/2\" N-40	1	1	
B18	13.00-00	1 1/2\" N-40	1	1	
B19	13.00-00	1 1/2\" N-40	1	1	
B20	13.00-00	1 1/2\" N-40	1	1	
B21	13.00-00	1 1/2\" N-40	1	1	
B22	13.00-00	1 1/2\" N-40	1	1	
B23	13.00-00	1 1/2\" N-40	1	1	
B24	13.00-00	1 1/2\" N-40	1	1	
B25	13.00-00	1 1/2\" N-40	1	1	
B26	13.00-00	1 1/2\" N-40	1	1	
B27	13.00-00	1 1/2\" N-40	1	1	
B28	13.00-00	1 1/2\" N-40	1	1	
B29	13.00-00	1 1/2\" N-40	1	1	
B30	13.00-00	1 1/2\" N-40	1	1	
B31	13.00-00	1 1/2\" N-40	1	1	
B32	13.00-00	1 1/2\" N-40	1	1	
B33	13.00-00	1 1/2\" N-40	1	1	
B34	13.00-00	1 1/2\" N-40	1	1	
B35	13.00-00	1 1/2\" N-40	1	1	
B36	13.00-00	1 1/2\" N-40	1	1	
B37	13.00-00	1 1/2\" N-40	1	1	
B38	13.00-00	1 1/2\" N-40	1	1	
B39	13.00-00	1 1/2\" N-40	1	1	
B40	13.00-00	1 1/2\" N-40	1	1	
B41	13.00-00	1 1/2\" N-40	1	1	
B42	13.00-00	1 1/2\" N-40	1	1	
B43	13.00-00	1 1/2\" N-40	1	1	
B44	13.00-00	1 1/2\" N-40	1	1	
B45	13.00-00	1 1/2\" N-40	1	1	
B46	13.00-00	1 1/2\" N-40	1	1	
B47	13.00-00	1 1/2\" N-40	1	1	
B48	13.00-00	1 1/2\" N-40	1	1	
B49	13.00-00	1 1/2\" N-40	1	1	
B50	13.00-00	1 1/2\" N-40	1	1	
B51	13.00-00	1 1/2\" N-40	1	1	
B52	13.00-00	1 1/2\" N-40	1	1	
B53	13.00-00	1 1/2\" N-40	1	1	
B54	13.00-00	1 1/2\" N-40	1	1	
B55	13.00-00	1 1/2\" N-40	1	1	
B56	13.00-00	1 1/2\" N-40	1	1	
B57	13.00-00	1 1/2\" N-40	1	1	
B58	13.00-00	1 1/2\" N-40	1	1	
B59	13.00-00	1 1/2\" N-40	1	1	
B60	13.00-00	1 1/2\" N-40	1	1	
B61	13.00-00	1 1/2\" N-40	1	1	
B62	13.00-00	1 1/2\" N-40	1	1	
B63	13.00-00	1 1/2\" N-40	1	1	
B64	13.00-00	1 1/2\" N-40	1	1	
B65	13.00-00	1 1/2\" N-40	1	1	
B66	13.00-00	1 1/2\" N-40	1	1	
B67	13.00-00	1 1/2\" N-40	1	1	
B68	13.00-00	1 1/2\" N-40	1	1	
B69	13.00-00	1 1/2\" N-40	1	1	
B70	13.00-00	1 1/2\" N-40	1	1	
B71	13.00-00	1 1/2\" N-40	1	1	
B72	13.00-00	1 1/2\" N-40	1	1	
B73	13.00-00	1 1/2\" N-40	1	1	
B74	13.00-00	1 1/2\" N-40	1	1	
B75	13.00-00	1 1/2\" N-40	1	1	
B76	13.00-00	1 1/2\" N-40	1	1	
B77	13.00-00	1 1/2\" N-40	1	1	
B78	13.00-00	1 1/2\" N-40	1	1	
B79	13.00-00	1 1/2\" N-40	1	1	
B80	13.00-00	1 1/2\" N-40	1	1	
B81	13.00-00	1 1/2\" N-40	1	1	
B82	13.00-00	1 1/2\" N-40	1	1	
B83	13.00-00	1 1/2\" N-40	1	1	
B84	13.00-00	1 1/2\" N-40	1	1	
B85	13.00-00	1 1/2\" N-40	1	1	
B86	13.00-00	1 1/2\" N-40	1	1	
B87	13.00-00	1 1/2\" N-40	1	1	
B88	13.00-00	1 1/2\" N-40	1	1	
B89	13.00-00	1 1/2\" N-40	1	1	
B90	13.00-00	1 1/2\" N-40	1	1	
B91	13.00-00	1 1/2\" N-40	1	1	
B92	13.00-00	1 1/2\" N-40	1	1	
B93	13.00-00	1 1/2\" N-40	1	1	
B94	13.00-00	1 1/2\" N-40	1	1	
B95	13.00-00	1 1/2\" N-40	1	1	
B96	13.00-00	1 1/2\" N-40	1	1	
B97	13.00-00	1 1/2\" N-40	1	1	
B98	13.00-00	1 1/2\" N-40	1	1	
B99	13.00-00	1 1/2\" N-40	1	1	
B100	13.00-00	1 1/2\" N-40	1	1	

Item	Length	Product	Qty	Unit	Notes
B1	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B2	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B3	22.00-00	1 3/4\" x 11 7/8\" L.S.E. Timber@Stand L.S.L.	3	3	
B4	17.00-00	1 1/2\" N-40	1	1	
B5	17.00-00	1 1/2\" N-40	1	1	
B6	13.00-00	1 1/2\" N-40	1	1	
B7	13.00-00	1 1/2\" N-40	1	1	
B8	13.00-00	1 1/2\" N-40	1	1	
B9	13.00-00	1 1/2\" N-40	1	1	
B10	13.00-00	1 1/2\" N-40	1	1	
B11	13.00-00	1 1/2\" N-40	1	1	
B12	13.00-00	1 1/2\" N-40	1	1	
B13	13.00-00	1 1/2\" N-40	1	1	
B14	13.00-00	1 1/2\" N-40	1	1	
B15	13.00-00	1 1/2\" N-40	1	1	
B16	13.00-00	1 1/2\" N-40	1	1	
B17	13.00-00	1 1/2\" N-40	1	1	
B18	13.00-00	1 1/2\" N-40	1	1	
B19	13.00-00	1 1/2\" N-40	1	1	
B20	13.00-00	1 1/2\" N-40	1	1	
B21	13.00-00	1 1/2\" N-40	1	1	
B22	13.00-00	1 1/2\" N-40	1	1	
B23	13.00-00	1 1/2\" N-40	1	1	
B24	13.00-00	1 1/2\" N-40	1	1	
B25	13.00-00	1 1/2\" N-40	1	1	
B26	13.00-00	1 1/2\" N-40	1	1	
B27	13.00-00	1 1/2\" N-40	1	1	
B28	13.00-00	1 1/2\" N-40	1	1	
B29	13.00-00	1 1/2\" N-40	1	1	
B30	13.00-00	1 1/2\" N-40	1	1	
B31	13.00-00	1 1/2\" N-40	1	1	
B32	13.00-00	1 1/2\" N-40	1	1	
B33	13.00-00	1 1/2\" N-40	1	1	
B34	13.00-00	1 1/2\" N-40	1	1	
B35	13.00-00	1 1/2\" N-40	1	1	
B36	13.00-00	1 1/2\" N-40	1	1	
B37	13.00-00	1 1/2\" N-40	1	1	
B38	13.00-00	1 1/2\" N-40	1	1	
B39	13.00-00	1 1/2\" N-40	1	1	
B40	13.00-00	1 1/2\" N-40	1	1	
B41	13.00-00	1 1/2\" N-40	1	1	
B42	13.00-00	1 1/2\" N-40	1	1	
B43	13.00-00	1 1/2\" N-40	1	1	
B44	13.00-00	1 1/2\" N-40	1	1	
B45	13.00-00	1 1/2\" N-40	1	1	
B46	13.00-00	1 1/2\" N-40	1	1	
B47	13.00-00	1 1/2\" N-40	1	1	
B48	13.00-00	1 1/2\" N-40	1	1	
B49	13.00-00	1 1/2\" N-40	1	1	
B50	13.00-00	1 1/2\" N-40	1	1	
B51	13.00-00	1 1/2\" N-40	1	1	
B52	13.00-00	1 1/2\" N-40	1	1	
B53	13.00-00	1 1/2\" N-40	1	1	
B54	13.00-00	1 1/2\" N-40	1	1	
B55	13.00-00	1 1/2\" N-40	1	1	
B56	13.00-00	1 1/2\" N-40	1	1	
B57	13.00-00	1 1/2\" N-40	1	1	
B58	13.00-00	1 1/2\" N-40	1	1	
B59	13.00-00	1 1/2\" N-40	1	1	
B60	13.00-00	1 1/2\" N-40	1	1	
B61	13.00-00	1 1/2\" N-40	1	1	
B62	13.00-00	1 1/2\" N-40	1	1	
B63	13.00-00	1 1/2\" N-40	1	1	
B64	13.00-00	1 1/2\" N-40	1	1	
B65	13.00-00	1 1/2\" N-40	1	1	
B66	13.00-00	1 1/2\" N-40	1	1	
B67	13.00-00	1 1/2\" N-40	1	1	
B68	13.00-00	1 1/2\" N-40	1	1	
B69	13.00-00	1 1/2\" N-40	1	1	
B70	13.00-00	1 1/2\" N-40	1	1	
B71	13.00-00	1 1/2\" N-40	1	1	
B72	13.00-00	1 1/2\" N-40	1	1	
B73	13.00-00	1 1/2\" N-40	1	1	
B74	13.00-00	1 1/2\" N-40	1	1	
B75	13.00-00	1 1/2\" N-40	1	1	
B76	13.00-00	1 1/2\" N-40	1	1	
B77	13.00-00	1 1/2\" N-40	1	1	
B78	13.00-00	1 1/2\" N-40	1	1	
B79	13.00-00	1 1/2\" N-40	1	1	
B80	13.00-00	1 1/2\" N-40	1	1	
B81	13.00-00	1 1/2\" N-40	1	1	
B82	13.00-00	1 1/2\" N-40	1	1	
B83	13.00-00	1 1/2\" N-40	1	1	
B84	13.00-00	1 1/2\" N-40	1	1	
B85	13.00-00	1 1/2\" N-40	1	1	
B86	13.00-00	1 1/2\" N-40	1	1	
B87	13.00-00	1 1/2\" N-40	1	1	
B88	13.00-00	1 1/2\" N-40	1	1	
B89	13.00-00	1 1/2\" N-40	1	1	
B90	13.00-00	1 1/2\" N-40	1	1	
B91	13.00-00	1 1/2\" N-40	1	1	
B92	13.00-00	1 1/2\" N-40	1	1	
B93	13.00-00	1 1/2\" N-40	1	1	
B94	13.00-00	1 1/2\" N-40	1	1	
B95	13.00-00	1 1/2\" N-40	1	1	
B96	13.00-00	1 1/2\" N-40	1	1	
B97	13.00-00	1 1/2\" N-40	1	1	
B98	13.00-00	1 1/2\" N-40	1	1	
B99	13.00-00	1 1/2\" N-40	1	1	
B100	13.00-00	1 1/2\" N-40	1	1	

SECOND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION A
W/ 5 BEDROOM

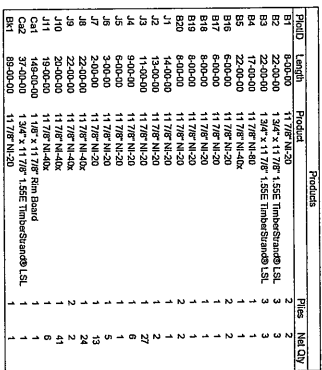
FLOOR LOADS
DEAD LOAD: 15 PSF
DEAD LOAD (TILE): 20 PSF

HATCH LEGEND
Ceramic Tile
Conv Framed

APP. AS PER PLAN
PAV. POST ABOVE
O.T.B. - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/2\" x 11-7/8\" O.S.B
SUBFLOOR: 3/4\" NAILED & GLEUED

Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.30.5
Provide 1/2\" blocking between cantilevered joists (along bearing) and imbed close at ends.
Do not scale - refer to architectural plans for dimensions.

JT/PL: 45147/116409 Builder: Gold Park Homes Location:



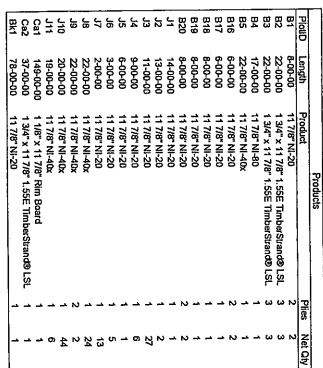
Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.30.5

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

Do not scale - refer to architectural plans for dimensions.

Salesperson: Derek F. Home Lumber Inc.



SECOND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION A
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
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" MAILED & GLUED*

Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.306
Provide J-Loist blocking between cantilevered joists (along bearing and rimboard closure at ends).
Do not scale - refer to architectural plans for dimensions.

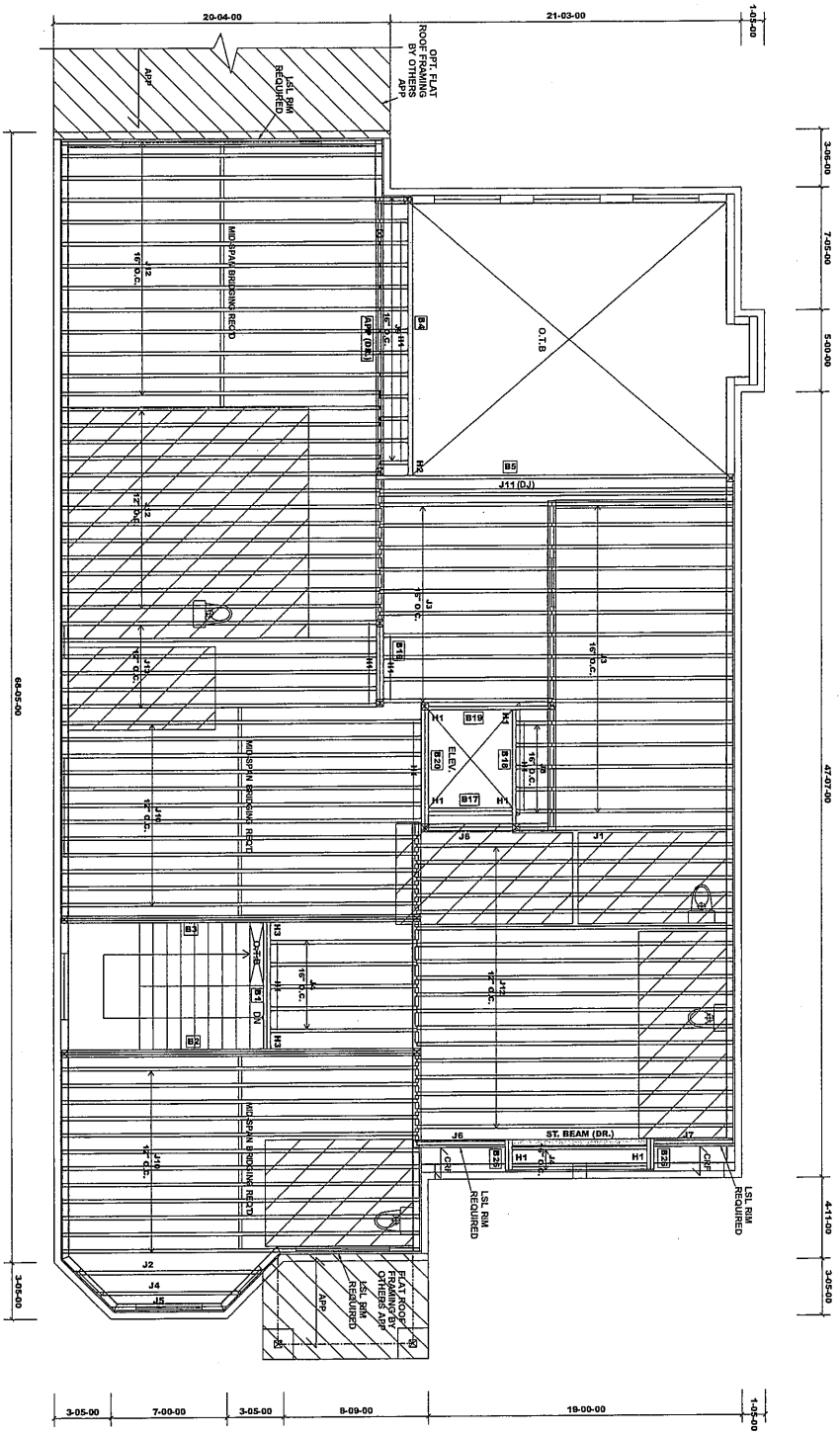
JT/PL: 45147/116409
LI: 343074*

Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL Alpha Roof Trusses Inc.
Sheet: 16 of 24 Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.



SECOND FLOOR FRAMING	
UNIT 5012 - THE WILLOWCREEK	
ELEVATION B	
W/ 5 BEDROOM	
W/ ELEVATOR	

FLOOR LOADINGS	
DEAD LOAD : 15 PSF	
DEAD LOAD (TILE): 20 PSF	

HATCH LEGEND	
	Ceramic Tile
	Conv Framed

APR - 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 & GULFED	

Blocking panels are required over all interior supports.
Blocking panels are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 3.305
Provide L-joint blocking between cantilevered joists (along bearing) and rimboard closure at ends.
Do not scale - refer to architectural plans for dimensions.

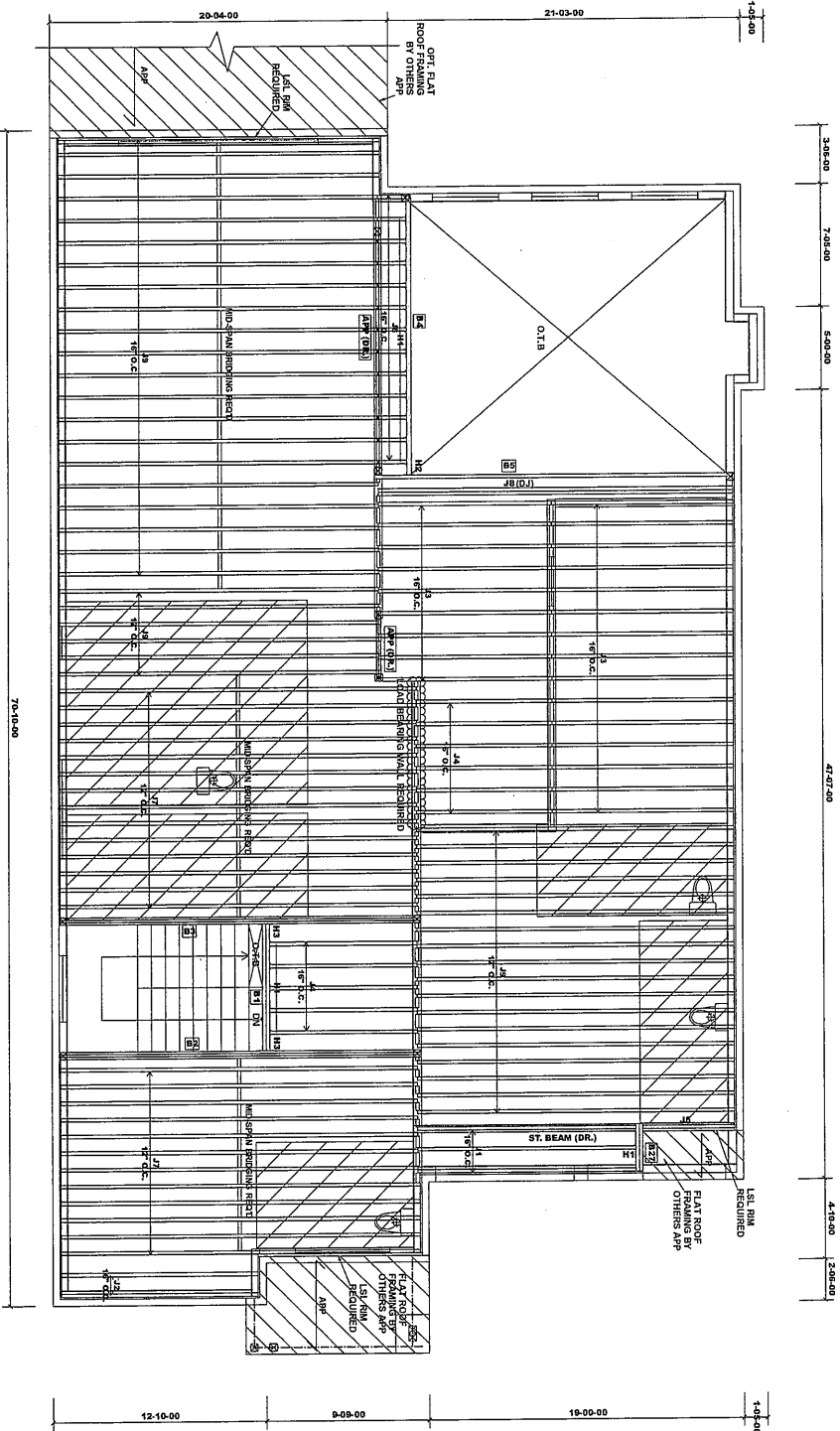
Component Summary	
HT	48
HT	1
HT	2

Beam	Length	Material	Notes	Qty	Unit
B1	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B2	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B3	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B4	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B5	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B6	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B7	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B8	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B9	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B10	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B11	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B12	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B13	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B14	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B15	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B16	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B17	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B18	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B19	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B20	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B21	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B22	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B23	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B24	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B25	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B26	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B27	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B28	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B29	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B30	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B31	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B32	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B33	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B34	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B35	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B36	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B37	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B38	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B39	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B40	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B41	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B42	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B43	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B44	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B45	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B46	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B47	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B48	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B49	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B50	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B51	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B52	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B53	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B54	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B55	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B56	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B57	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B58	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B59	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B60	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B61	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B62	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B63	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B64	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B65	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B66	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B67	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B68	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B69	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B70	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B71	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B72	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B73	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B74	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B75	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B76	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B77	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B78	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B79	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B80	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B81	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B82	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B83	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B84	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B85	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B86	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B87	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B88	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B89	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B90	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B91	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B92	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B93	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B94	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B95	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B96	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B97	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B98	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B99	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3
B100	22.00-00	1 3/4" X 11 7/8" LSL	Imbedded LSL	2	3

JT/PL: 45147/116409
 LI: 343074*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 21, 2022
 Designer: TL
 Sheet: 20 of 24
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.

Part	Length	Product	Pieces	Notes
B1	8-00-00	11/16" N-20	2	
B2	22-00-00	1 3/4" x 11/16" 1.55E TimberStrand LSL	2	
B3	22-00-00	1 3/4" x 11/16" 1.55E TimberStrand LSL	3	
B4	17-00-00	11/16" N-40	1	
B5	22-00-00	11/16" N-40x	1	
B6	22-00-00	11/16" N-20	1	
B7	22-00-00	11/16" N-20	1	
B8	22-00-00	11/16" N-20	1	
B9	22-00-00	11/16" N-20	1	
B10	22-00-00	11/16" N-20	1	
B11	22-00-00	11/16" N-20	1	
B12	22-00-00	11/16" N-20	1	
B13	22-00-00	11/16" N-20	1	
B14	22-00-00	11/16" N-20	1	
B15	22-00-00	11/16" N-20	1	
B16	22-00-00	11/16" N-20	1	
B17	22-00-00	11/16" N-20	1	
B18	22-00-00	11/16" N-20	1	
B19	22-00-00	11/16" N-20	1	
B20	22-00-00	11/16" N-20	1	
B21	22-00-00	11/16" N-20	1	
B22	22-00-00	11/16" N-20	1	
B23	22-00-00	11/16" N-20	1	
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B67	22-00-00	11/16" N-20	1	
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B72	22-00-00	11/16" N-20	1	
B73	22-00-00	11/16" N-20	1	
B74	22-00-00	11/16" N-20	1	
B75	22-00-00	11/16" N-20	1	
B76	22-00-00	11/16" N-20	1	
B77	22-00-00	11/16" N-20	1	
B78	22-00-00	11/16" N-20	1	
B79	22-00-00	11/16" N-20	1	
B80	22-00-00	11/16" N-20	1	
B81	22-00-00	11/16" N-20	1	
B82	22-00-00	11/16" N-20	1	
B83	22-00-00	11/16" N-20	1	
B84	22-00-00	11/16" N-20	1	
B85	22-00-00	11/16" N-20	1	
B86	22-00-00	11/16" N-20	1	
B87	22-00-00	11/16" N-20	1	
B88	22-00-00	11/16" N-20	1	
B89	22-00-00	11/16" N-20	1	
B90	22-00-00	11/16" N-20	1	
B91	22-00-00	11/16" N-20	1	
B92	22-00-00	11/16" N-20	1	
B93	22-00-00	11/16" N-20	1	
B94	22-00-00	11/16" N-20	1	
B95	22-00-00	11/16" N-20	1	
B96	22-00-00	11/16" N-20	1	
B97	22-00-00	11/16" N-20	1	
B98	22-00-00	11/16" N-20	1	
B99	22-00-00	11/16" N-20	1	
B100	22-00-00	11/16" N-20	1	

Part	Qty	Material	Product
H1	18		L7551188
H2	1		L7551188
H3	2		M0311092



SECOND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
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
BBO - BEAM BY OTHERS
PA - POST ABOVE
OTB - OPEN TO BELOW
RT - ROOF TRUSS
RIMBOARD
1-1/8" X 11/16" O.S.B
SUBFLOOR: 3/4" NAILED & GLUED*

Bracing panels are required over all interior support beams.
Squeak blocks are required under concentrated loads.
Ceramic Tile Application as per O.B.C. 9.20.6
Provide I-Joist blocking between cantilevered joists (adding blocking and inboard closure at ends).
Do not scale - refer to architectural plans for dimensions.

JT/PL: 45147/116409
LI: 343074*

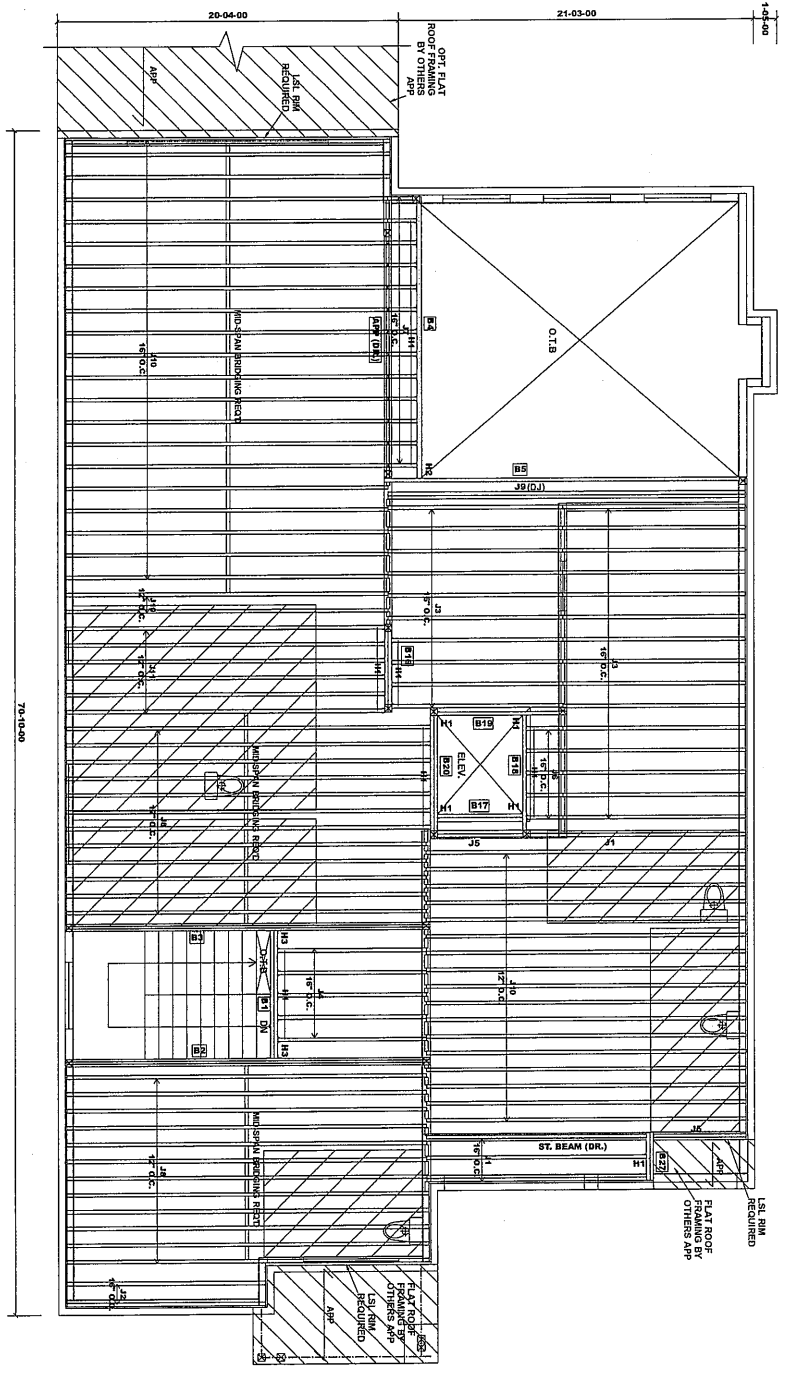
Builder: Gold Park Homes
Project: Pine Valley Ph2

Location: Vaughan, ON
Date: Apr. 21, 2022

Designer: TL
Sheet: 21 of 24
Stouffville, Ontario

Salesperson: Derek F.
Home Lumber Inc.

3.45-00 7.05-00 5.00-00 47.07-00 4.10-00 2.00-00



SECOND FLOOR FRAMING
UNIT 5012 - THE WILLOWCREEK
ELEVATION C
W/ ELEVATOR

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

HATCH LEGEND
Ceramic Tile
Conv. Framed

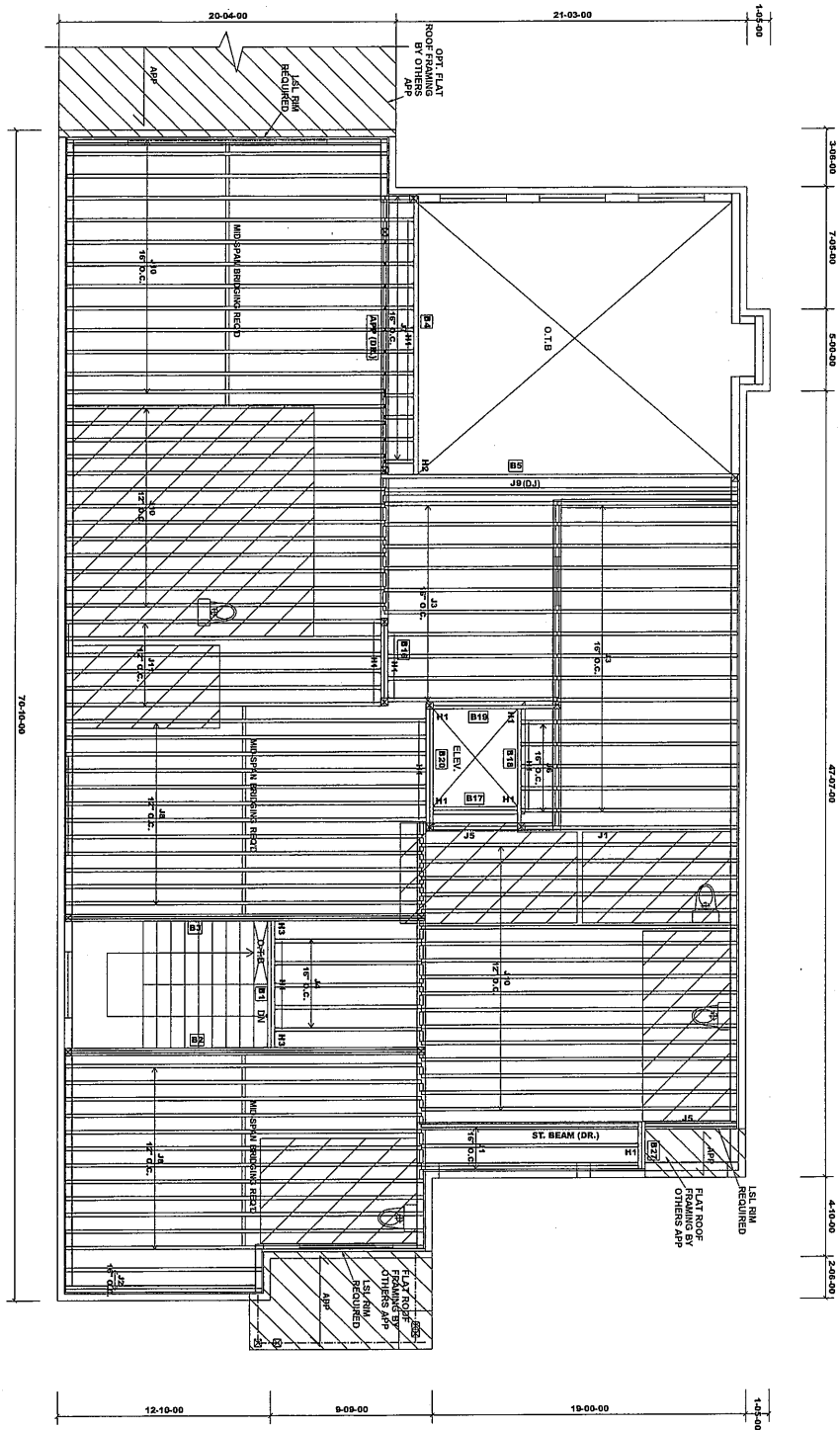
APP - AS PER PLAN
BBO - BEAM BY OTHERS
PA - POST ABOVE
O.T.B. - OPEN TO BELOW
RT - ROOF TRUSS
RIBBOARD
1'-0" X 11'-0" O.S.B
SUBFLOOR: 3/4" NAILED & GULF

Blocking panels are required over all interior
Squash blocks 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.

Item	Length	Product	Plies	Qty
B1	8'-00-00	11/78" N-20	2	1
B2	22'-00-00	1 3/4" X 11/78" L55E TimberStrand® LSL	3	3
B3	17'-00-00	11/78" N-40	1	1
B4	17'-00-00	11/78" N-40	1	1
B5	22'-00-00	11/78" N-40x	1	1
B6	6'-00-00	11/78" N-20	2	2
B7	11'-00-00	11/78" N-20	1	1
B8	6'-00-00	11/78" N-20	1	1
B9	6'-00-00	11/78" N-20	1	1
B10	6'-00-00	11/78" N-20	1	1
B11	6'-00-00	11/78" N-20	1	1
B12	6'-00-00	11/78" N-20	1	1
B13	6'-00-00	11/78" N-20	1	1
B14	6'-00-00	11/78" N-20	1	1
B15	6'-00-00	11/78" N-20	1	1
B16	6'-00-00	11/78" N-20	1	1
B17	6'-00-00	11/78" N-20	1	1
B18	6'-00-00	11/78" N-20	1	1
B19	6'-00-00	11/78" N-20	1	1
B20	6'-00-00	11/78" N-20	1	1
B21	6'-00-00	11/78" N-20	1	1
B22	6'-00-00	11/78" N-20	1	1
B23	6'-00-00	11/78" N-20	1	1
B24	6'-00-00	11/78" N-20	1	1
B25	6'-00-00	11/78" N-20	1	1
B26	6'-00-00	11/78" N-20	1	1
B27	6'-00-00	11/78" N-20	1	1
B28	6'-00-00	11/78" N-20	1	1
B29	6'-00-00	11/78" N-20	1	1
B30	6'-00-00	11/78" N-20	1	1
B31	6'-00-00	11/78" N-20	1	1
B32	6'-00-00	11/78" N-20	1	1
B33	6'-00-00	11/78" N-20	1	1
B34	6'-00-00	11/78" N-20	1	1
B35	6'-00-00	11/78" N-20	1	1
B36	6'-00-00	11/78" N-20	1	1
B37	6'-00-00	11/78" N-20	1	1
B38	6'-00-00	11/78" N-20	1	1
B39	6'-00-00	11/78" N-20	1	1
B40	6'-00-00	11/78" N-20	1	1
B41	6'-00-00	11/78" N-20	1	1
B42	6'-00-00	11/78" N-20	1	1
B43	6'-00-00	11/78" N-20	1	1
B44	6'-00-00	11/78" N-20	1	1
B45	6'-00-00	11/78" N-20	1	1
B46	6'-00-00	11/78" N-20	1	1
B47	6'-00-00	11/78" N-20	1	1
B48	6'-00-00	11/78" N-20	1	1
B49	6'-00-00	11/78" N-20	1	1
B50	6'-00-00	11/78" N-20	1	1
B51	6'-00-00	11/78" N-20	1	1
B52	6'-00-00	11/78" N-20	1	1
B53	6'-00-00	11/78" N-20	1	1
B54	6'-00-00	11/78" N-20	1	1
B55	6'-00-00	11/78" N-20	1	1
B56	6'-00-00	11/78" N-20	1	1
B57	6'-00-00	11/78" N-20	1	1
B58	6'-00-00	11/78" N-20	1	1
B59	6'-00-00	11/78" N-20	1	1
B60	6'-00-00	11/78" N-20	1	1
B61	6'-00-00	11/78" N-20	1	1
B62	6'-00-00	11/78" N-20	1	1
B63	6'-00-00	11/78" N-20	1	1
B64	6'-00-00	11/78" N-20	1	1
B65	6'-00-00	11/78" N-20	1	1
B66	6'-00-00	11/78" N-20	1	1
B67	6'-00-00	11/78" N-20	1	1
B68	6'-00-00	11/78" N-20	1	1
B69	6'-00-00	11/78" N-20	1	1
B70	6'-00-00	11/78" N-20	1	1
B71	6'-00-00	11/78" N-20	1	1
B72	6'-00-00	11/78" N-20	1	1
B73	6'-00-00	11/78" N-20	1	1
B74	6'-00-00	11/78" N-20	1	1
B75	6'-00-00	11/78" N-20	1	1
B76	6'-00-00	11/78" N-20	1	1
B77	6'-00-00	11/78" N-20	1	1
B78	6'-00-00	11/78" N-20	1	1
B79	6'-00-00	11/78" N-20	1	1
B80	6'-00-00	11/78" N-20	1	1
B81	6'-00-00	11/78" N-20	1	1
B82	6'-00-00	11/78" N-20	1	1
B83	6'-00-00	11/78" N-20	1	1
B84	6'-00-00	11/78" N-20	1	1
B85	6'-00-00	11/78" N-20	1	1
B86	6'-00-00	11/78" N-20	1	1
B87	6'-00-00	11/78" N-20	1	1
B88	6'-00-00	11/78" N-20	1	1
B89	6'-00-00	11/78" N-20	1	1
B90	6'-00-00	11/78" N-20	1	1
B91	6'-00-00	11/78" N-20	1	1
B92	6'-00-00	11/78" N-20	1	1
B93	6'-00-00	11/78" N-20	1	1
B94	6'-00-00	11/78" N-20	1	1
B95	6'-00-00	11/78" N-20	1	1
B96	6'-00-00	11/78" N-20	1	1
B97	6'-00-00	11/78" N-20	1	1
B98	6'-00-00	11/78" N-20	1	1
B99	6'-00-00	11/78" N-20	1	1
B100	6'-00-00	11/78" N-20	1	1

Item	Length	Product	Plies	Qty
B1	8'-00-00	11/78" N-20	2	1
B2	22'-00-00	1 3/4" X 11/78" L55E TimberStrand® LSL	3	3
B3	17'-00-00	11/78" N-40	1	1
B4	17'-00-00	11/78" N-40	1	1
B5	22'-00-00	11/78" N-40x	1	1
B6	6'-00-00	11/78" N-20	2	2
B7	11'-00-00	11/78" N-20	1	1
B8	6'-00-00	11/78" N-20	1	1
B9	6'-00-00	11/78" N-20	1	1
B10	6'-00-00	11/78" N-20	1	1
B11	6'-00-00	11/78" N-20	1	1
B12	6'-00-00	11/78" N-20	1	1
B13	6'-00-00	11/78" N-20	1	1
B14	6'-00-00	11/78" N-20	1	1
B15	6'-00-00	11/78" N-20	1	1
B16	6'-00-00	11/78" N-20	1	1
B17	6'-00-00	11/78" N-20	1	1
B18	6'-00-00	11/78" N-20	1	1
B19	6'-00-00	11/78" N-20	1	1
B20	6'-00-00	11/78" N-20	1	1
B21	6'-00-00	11/78" N-20	1	1
B22	6'-00-00	11/78" N-20	1	1
B23	6'-00-00	11/78" N-20	1	1
B24	6'-00-00	11/78" N-20	1	1
B25	6'-00-00	11/78" N-20	1	1
B26	6'-00-00	11/78" N-20	1	1
B27	6'-00-00	11/78" N-20	1	1
B28	6'-00-00	11/78" N-20	1	1
B29	6'-00-00	11/78" N-20	1	1
B30	6'-00-00	11/78" N-20	1	1
B31	6'-00-00	11/78" N-20	1	1
B32	6'-00-00	11/78" N-20	1	1
B33	6'-00-00	11/78" N-20	1	1
B34	6'-00-00	11/78" N-20	1	1
B35	6'-00-00	11/78" N-20	1	1
B36	6'-00-00	11/78" N-20	1	1
B37	6'-00-00	11/78" N-20	1	1
B38	6'-00-00	11/78" N-20	1	1
B39	6'-00-00	11/78" N-20	1	1
B40	6'-00-00	11/78" N-20	1	1
B41	6'-00-00	11/78" N-20	1	1
B42	6'-00-00	11/78" N-20	1	1
B43	6'-00-00	11/78" N-20	1	1
B44	6'-00-00	11/78" N-20	1	1
B45	6'-00-00	11/78" N-20	1	1
B46	6'-00-00	11/78" N-20	1	1
B47	6'-00-00	11/78" N-20	1	1
B48	6'-00-00	11/78" N-20	1	1
B49	6'-00-00	11/78" N-20	1	1
B50	6'-00-00	11/78" N-20	1	1
B51	6'-00-00	11/78" N-20	1	1
B52	6'-00-00	11/78" N-20	1	1
B53	6'-00-00	11/78" N-20	1	1
B54	6'-00-00	11/78" N-20	1	1
B55	6'-00-00	11/78" N-20	1	1
B56	6'-00-00	11/78" N-20	1	1
B57	6'-00-00	11/78" N-20	1	1
B58	6'-00-00	11/78" N-20	1	1
B59	6'-00-00	11/78" N-20	1	1
B60	6'-00-00	11/78" N-20	1	1
B61	6'-00-00	11/78" N-20	1	1
B62	6'-00-00	11/78" N-20	1	1
B63	6'-00-00	11/78" N-20	1	1
B64	6'-00-00	11/78" N-20	1	1
B65	6'-00-00	11/78" N-20	1	1
B66	6'-00-00	11/78" N-20	1	1
B67	6'-00-00	11/78" N-20	1	1
B68	6'-00-00	11/78" N-20	1	1
B69	6'-00-00	11/78" N-20	1	1
B70	6'-00-00	11/78" N-20	1	1
B71	6'-00-00	11/78" N-20	1	1
B72	6'-00-00	11/78" N-20	1	1
B73	6'-00-00	11/78" N-20	1	1
B74	6'-00-00	11/78" N-20	1	1
B75	6'-00-00	11/78" N-20	1	1
B76	6'-00-00	11/78" N-20	1	1
B77	6'-00-00	11/78" N-20	1	1
B78	6'-00-00	11/78" N-20	1	1
B79	6'-00-00	11/78" N-20	1	1
B80	6'-00-00	11/78" N-20	1	1
B81	6'-00-00	11/78" N-20	1	1
B82	6'-00-00	11/78" N-20	1	1
B83	6'-00-00	11/78" N-20	1	1
B84	6'-00-00	11/78" N-20	1	1
B85	6'-00-00	11/78" N-20	1	1
B86	6'-00-00	11/78" N-20	1	1
B87	6'-00-00	11/78" N-20	1	1
B88	6'-00-00	11/78" N-20	1	1
B89	6'-00-00	11/78" N-20	1	1
B90	6'-00-00	11/78" N-20	1	1
B91	6'-00-00	11/78" N-20	1	1
B92	6'-00-00	11/78" N-20	1	1
B93	6'-00-00	11/78" N-20	1	1
B94	6'-00-00	11/78" N-20	1	1
B95	6'-00-00	11/78" N-20	1	1
B96	6'-00-00	11/78" N-20	1	1
B97	6'-00-00	11/78" N-20	1	1
B98	6'-00-00	11/78" N-20	1	1
B99	6'-00-00	11/78" N-20	1	1
B100	6'-00-00	11/78" N-20	1	1

JT/PL: 45147/116409
 LI: 343074*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 21, 2022
 Designer: TL
 Sheet: 23 of 24
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



SECOND FLOOR FRAMING	
UNIT 5012 - THE WILLOWCREEK	
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	
BBO - BEAM BY OTHERS	
PA - POST ABOVE	
O.T.B. - OPEN TO BELOW	
GT - GROSS 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 spans. Blocking panels are required under concentrated loads.

Ceramic Tile Application as per O.B.C. 9.306

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

Do not scale - refer to architectural plans for dimensions.

PROD	QTY	MANUF	PRODUCT
12	44		UT31188
13	2		MT13188-2
14	2		MT13188-2

PROD	Length	Product	Qty	Unit	Qty
B1	6-00-00	11/8" N-20	2	1	2
B2	22-00-00	1 3/4" X 11/8" L-Beam (TimberStrand) LSL	3	3	3
B3	12-00-00	11/8" X 11/8" L-Beam (TimberStrand) LSL	1	1	1
B4	12-00-00	11/8" X 11/8" L-Beam (TimberStrand) LSL	1	1	1
B5	22-00-00	11/8" N-20	2	2	2
B6	6-00-00	11/8" N-20	1	1	1
B7	6-00-00	11/8" N-20	1	1	1
B8	6-00-00	11/8" N-20	1	1	1
B9	6-00-00	11/8" N-20	1	1	1
B10	6-00-00	11/8" N-20	1	1	1
B11	6-00-00	11/8" N-20	1	1	1
B12	6-00-00	11/8" N-20	1	1	1
B13	6-00-00	11/8" N-20	1	1	1
B14	6-00-00	11/8" N-20	1	1	1
B15	6-00-00	11/8" N-20	1	1	1
B16	6-00-00	11/8" N-20	1	1	1
B17	6-00-00	11/8" N-20	1	1	1
B18	6-00-00	11/8" N-20	1	1	1
B19	6-00-00	11/8" N-20	1	1	1
B20	6-00-00	11/8" N-20	1	1	1
B21	6-00-00	11/8" N-20	1	1	1
B22	6-00-00	11/8" N-20	1	1	1
B23	6-00-00	11/8" N-20	1	1	1
B24	6-00-00	11/8" N-20	1	1	1
B25	6-00-00	11/8" N-20	1	1	1
B26	6-00-00	11/8" N-20	1	1	1
B27	6-00-00	11/8" N-20	1	1	1
B28	6-00-00	11/8" N-20	1	1	1
B29	6-00-00	11/8" N-20	1	1	1
B30	6-00-00	11/8" N-20	1	1	1
B31	6-00-00	11/8" N-20	1	1	1
B32	6-00-00	11/8" N-20	1	1	1
B33	6-00-00	11/8" N-20	1	1	1
B34	6-00-00	11/8" N-20	1	1	1
B35	6-00-00	11/8" N-20	1	1	1
B36	6-00-00	11/8" N-20	1	1	1
B37	6-00-00	11/8" N-20	1	1	1
B38	6-00-00	11/8" N-20	1	1	1
B39	6-00-00	11/8" N-20	1	1	1
B40	6-00-00	11/8" N-20	1	1	1
B41	6-00-00	11/8" N-20	1	1	1
B42	6-00-00	11/8" N-20	1	1	1
B43	6-00-00	11/8" N-20	1	1	1
B44	6-00-00	11/8" N-20	1	1	1
B45	6-00-00	11/8" N-20	1	1	1
B46	6-00-00	11/8" N-20	1	1	1
B47	6-00-00	11/8" N-20	1	1	1
B48	6-00-00	11/8" N-20	1	1	1
B49	6-00-00	11/8" N-20	1	1	1
B50	6-00-00	11/8" N-20	1	1	1
B51	6-00-00	11/8" N-20	1	1	1
B52	6-00-00	11/8" N-20	1	1	1
B53	6-00-00	11/8" N-20	1	1	1
B54	6-00-00	11/8" N-20	1	1	1
B55	6-00-00	11/8" N-20	1	1	1
B56	6-00-00	11/8" N-20	1	1	1
B57	6-00-00	11/8" N-20	1	1	1
B58	6-00-00	11/8" N-20	1	1	1
B59	6-00-00	11/8" N-20	1	1	1
B60	6-00-00	11/8" N-20	1	1	1
B61	6-00-00	11/8" N-20	1	1	1
B62	6-00-00	11/8" N-20	1	1	1
B63	6-00-00	11/8" N-20	1	1	1
B64	6-00-00	11/8" N-20	1	1	1
B65	6-00-00	11/8" N-20	1	1	1
B66	6-00-00	11/8" N-20	1	1	1
B67	6-00-00	11/8" N-20	1	1	1
B68	6-00-00	11/8" N-20	1	1	1
B69	6-00-00	11/8" N-20	1	1	1
B70	6-00-00	11/8" N-20	1	1	1
B71	6-00-00	11/8" N-20	1	1	1
B72	6-00-00	11/8" N-20	1	1	1
B73	6-00-00	11/8" N-20	1	1	1
B74	6-00-00	11/8" N-20	1	1	1
B75	6-00-00	11/8" N-20	1	1	1
B76	6-00-00	11/8" N-20	1	1	1
B77	6-00-00	11/8" N-20	1	1	1
B78	6-00-00	11/8" N-20	1	1	1
B79	6-00-00	11/8" N-20	1	1	1
B80	6-00-00	11/8" N-20	1	1	1
B81	6-00-00	11/8" N-20	1	1	1
B82	6-00-00	11/8" N-20	1	1	1
B83	6-00-00	11/8" N-20	1	1	1
B84	6-00-00	11/8" N-20	1	1	1
B85	6-00-00	11/8" N-20	1	1	1
B86	6-00-00	11/8" N-20	1	1	1
B87	6-00-00	11/8" N-20	1	1	1
B88	6-00-00	11/8" N-20	1	1	1
B89	6-00-00	11/8" N-20	1	1	1
B90	6-00-00	11/8" N-20	1	1	1
B91	6-00-00	11/8" N-20	1	1	1
B92	6-00-00	11/8" N-20	1	1	1
B93	6-00-00	11/8" N-20	1	1	1
B94	6-00-00	11/8" N-20	1	1	1
B95	6-00-00	11/8" N-20	1	1	1
B96	6-00-00	11/8" N-20	1	1	1
B97	6-00-00	11/8" N-20	1	1	1
B98	6-00-00	11/8" N-20	1	1	1
B99	6-00-00	11/8" N-20	1	1	1
B100	6-00-00	11/8" N-20	1	1	1

JT/PL: 45147/116409
 LI: 343074*
 Builder: Gold Park Homes
 Project: Pine Valley Ph2
 Location: Vaughan, ON
 Date: Apr. 21, 2022
 Designer: TL
 Alpha Roof Trusses Inc.
 Sheet: 24 of 24
 Stouffville, Ontario
 Salesperson: Derek F.
 Home Lumber Inc.



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B1 - i46207**
Type: **Beam**

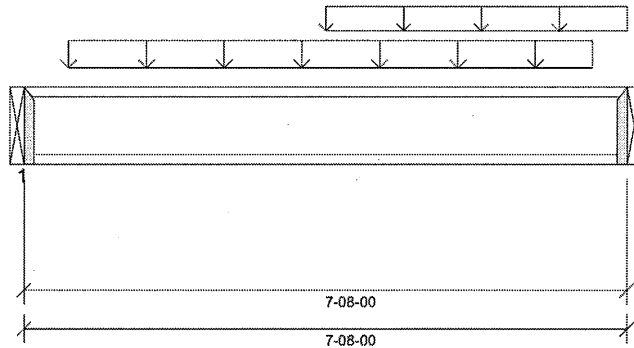
2 Ply Member
11 7/8" NI-20

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 04/19/2022 13:54



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'
- 769 psi Beam @ 7'- 8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 10 3/4"	1.25D + 1.5L	1.00	3959 lb ft	11160 lb ft	Passed - 35%
Factored Shear:	7'- 7 15/16"	1.25D + 1.5L	1.00	2149 lb	4480 lb	Passed - 48%
Live Load (LL) Pos. Defl.:	3'- 11 1/16"	L		0.056"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 11 1/16"	D + L		0.078"	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	1.00	1558 lb		3940 lb	-	Passed - 40%
2	1-12	1.25D + 1.5L	1.00	2151 lb		3940 lb	-	Passed - 55%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	MIT311.88-2		-	-	-	Connector manually specified by the user.
2	MIT311.88-2		-	-	-	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'	7'- 8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'- 6 3/4"	7'- 2 3/4"	Smoothed Load	Back	72 lb/ft	192 lb/ft	-	-
Uniform	3'- 10"	7'- 8"	User Load	Top	57 lb/ft	150 lb/ft	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B3(i46256)	314 lb	780 lb	-	-
2	7'- 8"	7'- 8"	B2(i46205)	427 lb	1075 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.



SG046702



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

Job Name: **343074 Ground A + Second A (1**
Level: **Second Floor**
Label: **B2 - i46205**
Type: **Beam**

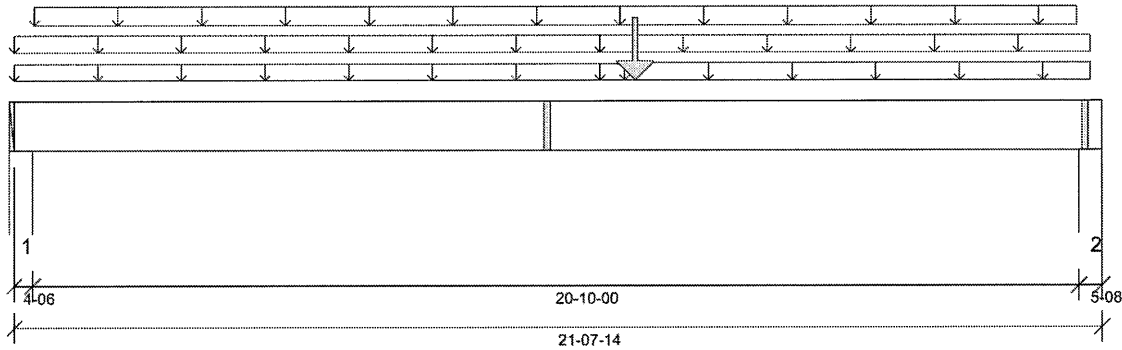
3 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 13:55



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: 10'- 2 15/16"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 3 3/8"
- 615 psi Wall @ 21'- 3 3/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	12'- 4 3/8"	1.25D + 1.5L	0.94	19956 lb ft	37434 lb ft	Passed - 53%
Factored Shear:	20'- 2 1/2"	1.25D + 1.5L	0.94	2866 lb	20337 lb	Passed - 14%
Live Load (LL) Pos. Defl.:	11'- 2 5/16"	L		0.447"	L/360	Passed - L/559
Total Load (TL) Pos. Defl.:	11'- 3/4"	D + L		0.936"	L/240	Passed - L/267
Permanent Deflection:	10'- 11 1/4"			-	L/360	Passed - L/526

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	0.94	2579 lb		28311 lb	13291 lb	Passed - 19%
2	5-08	1.25D + 1.5L	0.94	3078 lb		35591 lb	16709 lb	Passed - 18%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'- 7 7/8"	Self Weight	Top	19 lb/ft	-	-	-
Uniform	0'	21'- 5 1/8"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	17 lb/ft	-	-
Uniform	0'	12'- 1 7/8"	FC2 Floor Decking (Plan View Fill)	Top	3 lb/ft	9 lb/ft	-	-
Uniform	0'- 4 7/8"	21'- 1 7/8"	User Load	Top	60 lb/ft	-	-	-
Uniform	12'- 1 7/8"	21'- 5 1/8"	FC2 Floor Decking (Plan View Fill)	Top	10 lb/ft	26 lb/ft	-	-
Point	12'- 4 3/8"	12'- 4 3/8"	B1(i46207)	Back	427 lb	1075 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 4 3/8"	E18(i41612)	1138 lb	787 lb	-	-
2	21'- 2 3/8"	21'- 7 7/8"	1(i41633)	1227 lb	1013 lb	-	-

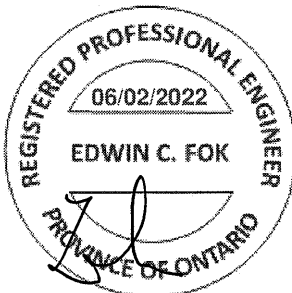
DESIGN NOTES

- 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 piles 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



53046703



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

Job Name: **343074 Ground A + Second A (1**
Level: **Second Floor**
Label: **B3 - I46256**
Type: **Beam**

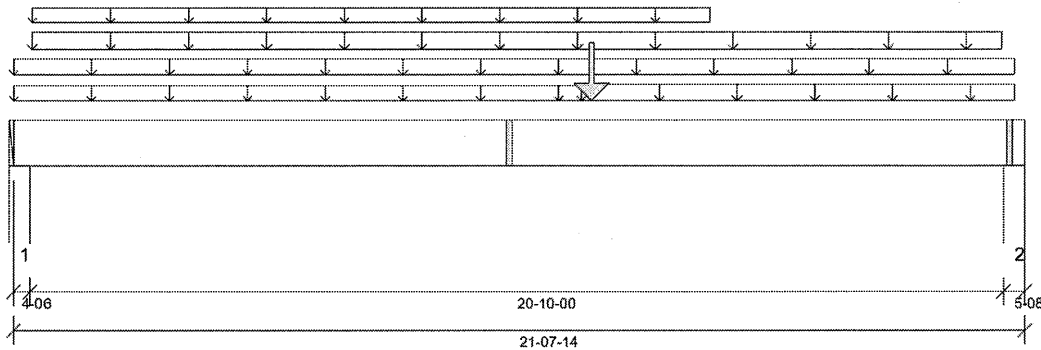
3 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 13:55



DESIGN INFORMATION

Building Code: NBC 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: 10'-2 15/16"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'-3 3/8"
- 615 psi Wall @ 21'-3 3/8"

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:	12'-4 3/8"	1.25D + 1.5L	0.91	17216 lb ft	36349 lb ft	Passed - 47%
Factored Shear:	20'-2 1/2"	1.25D + 1.5L	0.91	2579 lb	19748 lb	Passed - 13%
Live Load (LL) Pos. Defl.:	11'-2 1/8"	L		0.366"	L/360	Passed - L/683
Total Load (TL) Pos. Defl.:	11'-3/8"	D + L		0.830"	L/240	Passed - L/301
Permanent Deflection:	10'-10 7/8"			-	L/360	Passed - L/555

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	0.91	2370 lb		27490 lb	12906 lb	Passed - 18%
2	5-08	1.25D + 1.5L	0.91	2798 lb		34560 lb	16225 lb	Passed - 17%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'-7 7/8"	Self Weight	Top	19 lb/ft	-	-	-
Uniform	0'	21'-5 1/8"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	0'	12'-1 7/8"	FC2 Floor Decking (Plan View Fill)	Top	3 lb/ft	9 lb/ft	-	-
Uniform	0'-4 7/8"	21'-1 7/8"	User Load	Top	60 lb/ft	-	-	-
Uniform	0'-4 7/8"	14'-10 7/8"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	-	-	-
Uniform	12'-1 7/8"	21'-5 1/8"	FC2 Floor Decking (Plan View Fill)	Top	11 lb/ft	29 lb/ft	-	-
Point	12'-4 3/8"	12'-4 3/8"	B1(I46207)	Front	314 lb	780 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'-4 3/8"	E43(I41723)	1110 lb	668 lb	-	-
2	21'-2 3/8"	21'-7 7/8"	1(I41633)	1181 lb	889 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.

SG046704



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B4 - i46475**
Type: **Beam**

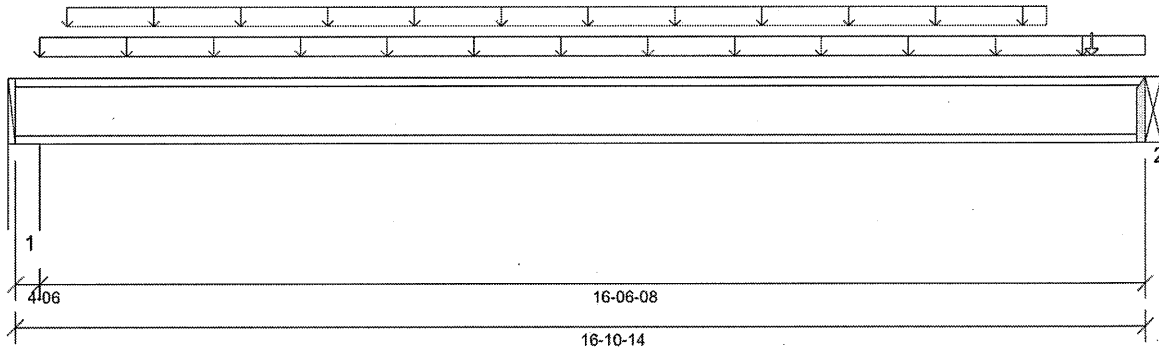
1 Ply Member
11 7/8" NI-80

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 04/19/2022 13:56



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'- 3 3/8"
- 769 psi Beam @ 16'- 10 7/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 4 15/16"	1.25D + 1.5L	0.85	5478 lb ft	9847 lb ft	Passed - 56%
Factored Shear:	16'- 10 13/16"	1.25D + 1.5L	0.85	1293 lb	1985 lb	Passed - 65%
Live Load (LL) Pos. Defl.:	8'- 7 1/8"	L		0.149"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	8'- 7 1/8"	D + L		0.437"	L/240	Passed - L/454
Permanent Deflection:	8'- 7 1/8"			-	L/360	Passed - L/806

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	0.85	1276 lb		1985 lb	7990 lb	Passed - 64%
2	1-12	1.25D + 1.5L	0.85	1294 lb		2130 lb	-	Passed - 61%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories		
			Top	Face	Member			
2	LT351188		-	-	-	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

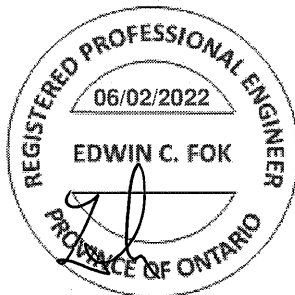
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	16'- 10 7/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'- 4 3/8"	16'- 10 7/8"	User Load	Top	60 lb/ft	-	-	-
Uniform	0'- 9 1/4"	15'- 5 1/4"	Smoothed Load	Front	15 lb/ft	41 lb/ft	-	-
Point	16'- 1 1/4"	16'- 1 1/4"	J4(i46468)	Front	17 lb	46 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 4 3/8"	E3(i41618)	641 lb	317 lb	-	-
2	16'- 10 7/8"	16'- 10 7/8"	B5(i46089)	647 lb	323 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.



SB046705



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Second Floor**
Label: **B5 - i46089**
Type: **Beam**

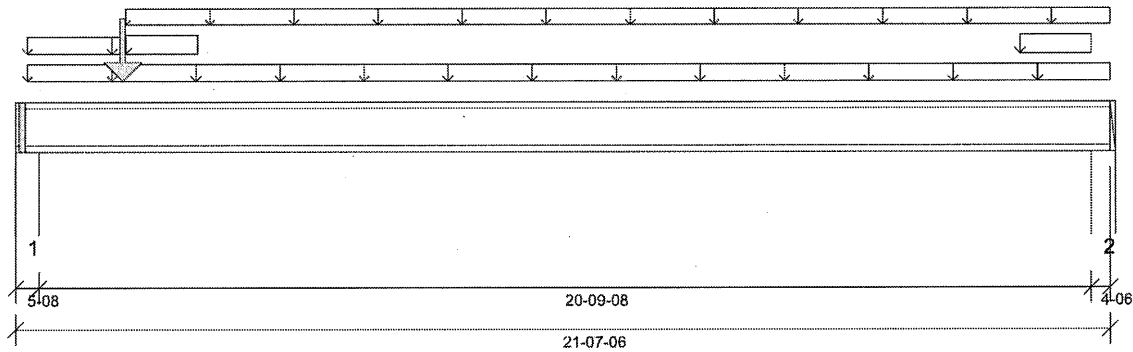
1 Ply Member
11 7/8" NI-40x

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 04/19/2022 13:56



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: 19'

Factored Resistance of Support Material:

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

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	8'- 5"	1.25D + 1.5L	0.95	4107 lb ft	5921 lb ft	Passed - 69%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L	0.95	1830 lb	2215 lb	Passed - 83%
Live Load (LL) Pos. Defl.:	10'- 6 3/8"	L		0.364"	L/360	Passed - L/686
Total Load (TL) Pos. Defl.:	10'- 3 3/4"	D + L		0.698"	L/240	Passed - L/357
Permanent Deflection:	10'- 11/16"			-	L/360	Passed - L/797

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	0.95	1849 lb		2215 lb	8007 lb	Passed - 83%
2	4-06	1.25D + 1.5L	0.95	747 lb		2215 lb	6369 lb	Passed - 34%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'- 7 3/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'- 2 3/4"	21'- 7 3/8"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	0'- 2 3/4"	2'- 2"	FC2 Floor Decking (Plan View Fill)	Top	7 lb/ft	18 lb/ft	-	-
Uniform	2'- 2"	21'- 7 3/8"	FC2 Floor Decking (Plan View Fill)	Top	2 lb/ft	4 lb/ft	-	-
Uniform	2'- 2"	3'- 7"	User Load	Top	60 lb/ft	-	-	-
Uniform	19'- 10"	21'- 3"	User Load	Top	60 lb/ft	-	-	-
Point	2'- 1 1/4"	2'- 1 1/4"	B4(i46475)	Back	647 lb	323 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	7(i41711)	801 lb	562 lb	-	-
2	21'- 3"	21'- 7 3/8"	E8(i41619)	271 lb	275 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.



55046706



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

Job Name: **343074 Ground A + Second A (1.**
Level: **Ground Floor**
Label: **B6 - i47798**
Type: **Beam**

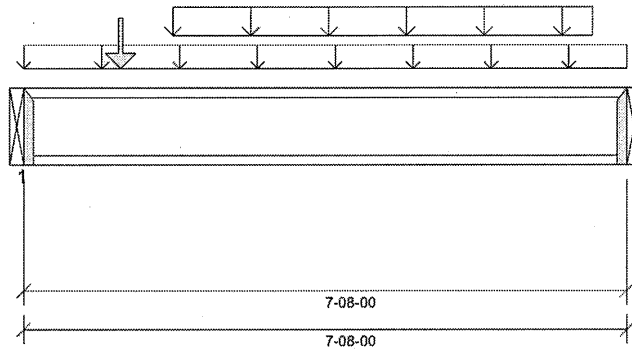
2 Ply Member
11 7/8" NI-20

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 04/19/2022 13:56



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 @ 7'- 8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 10 3/4"	1.25D + 1.5L	1.00	5105 lb ft	11160 lb ft	Passed - 46%
Factored Shear:	7'- 7 15/16"	1.25D + 1.5L	1.00	2459 lb	4480 lb	Passed - 55%
Live Load (LL) Pos. Defl.:	3'- 10"	L		0.073"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 10"	D + L		0.102"	L/240	Passed - L/906

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	2432 lb		3940 lb	-	Passed - 62%
2	1-12	1.25D + 1.5L	1.00	2460 lb		3940 lb	-	Passed - 62%

CONNECTOR INFORMATION

ID	Part No.	Manufacturer	Nailing Requirements			Other Information or Requirement for Reinforcement Accessories
			Top	Face	Member	
1	MIT311.88-2		-	-	-	Connector manually specified by the user.
2	MIT311.88-2		-	-	-	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'	7'- 8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	-0'	7'- 8"	User Load	Top	50 lb/ft	134 lb/ft	-	-
Uniform	1'- 10 3/4"	7'- 2 3/4"	Smoothed Load	Back	79 lb/ft	212 lb/ft	-	-
Point	1'- 2 3/4"	1'- 2 3/4"	J3(i47822)	Back	113 lb	301 lb	-	-

UNFACTORED REACTIONS

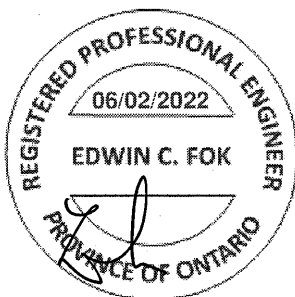
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B8(i47787)	479 lb	1223 lb	-	-
2	7'- 8"	7'- 8"	B7(i47816)	484 lb	1237 lb	-	-

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.



SG046707



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Ground Floor**
Label: **B7 - i47816**
Type: **Beam**

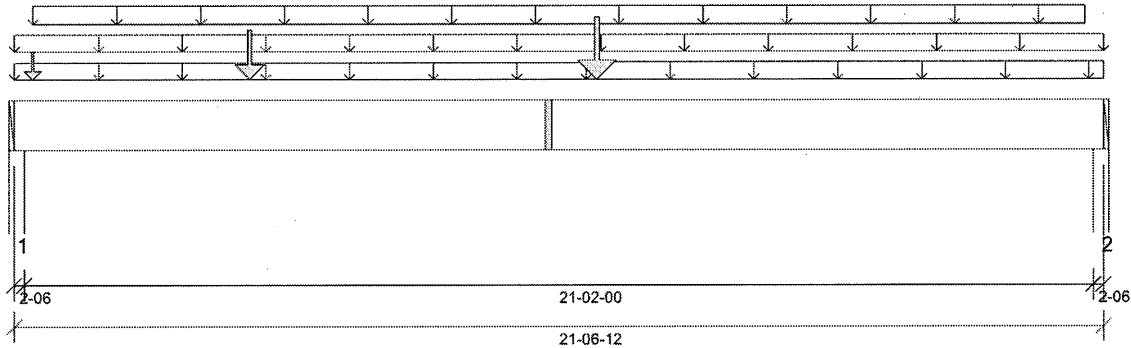
4 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 13:57



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: 10'- 4 1/2"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 3/8"
- 615 psi Wall @ 21'- 5 3/8"

CONNECT 4 PLY MEMBERS
WITH SIMPSON'S SOW 22624
WOOD SCREWS @ 16" O.C.,
STAGGERED IN 2 ROWS



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	11'- 6 3/8"	1.25D + 1.5L	1.00	26947 lb ft	53063 lb ft	Passed - 51%
Factored Shear:	1'- 2 1/4"	1.25D + 1.5L	1.00	4280 lb	28828 lb	Passed - 15%
Live Load (LL) Pos. Defl.:	10'- 8"	L		0.536"	L/360	Passed - L/474
Total Load (TL) Pos. Defl.:	10'- 8 3/8"	D + L		1.014"	L/240	Passed - L/250
Permanent Deflection:	10'- 8 13/16"			-	L/360	Passed - L/547

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	4974 lb		21785 lb	10228 lb	Passed - 49%
2	2'-06"	1.25D + 1.5L	1.00	3683 lb		21785 lb	10228 lb	Passed - 36%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'- 6 3/4"	Self Weight	Top	26 lb/ft	-	-	-
Uniform	0'	21'- 6 3/4"	FC1 Floor Decking (Plan View Fill)	Top	6 lb/ft	16 lb/ft	-	-
Uniform	0'	11'- 3 7/8"	FC1 Floor Decking (Plan View Fill)	Top	4 lb/ft	12 lb/ft	-	-
Uniform	0'- 4 3/8"	21'- 2 3/8"	User Load	Top	60 lb/ft	-	-	-
Uniform	11'- 3 7/8"	21'- 6 3/4"	FC1 Floor Decking (Plan View Fill)	Top	11 lb/ft	28 lb/ft	-	-
Point	11'- 6 3/8"	11'- 6 3/8"	B6(i47798)	Back	484 lb	1237 lb	-	-
Point	0'- 4 3/8"	0'- 4 3/8"	User Load	Top	120 lb	320 lb	-	-
Point	4'- 7 7/8"	4'- 7 7/8"	User Load	Top	341 lb	907 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/8"	W17(i41587)	1649 lb	1961 lb	-	-
2	21'- 4 3/8"	21'- 6 3/4"	W21(i41601)	1395 lb	1273 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.
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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. 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.

320467.8



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Ground Floor**
Label: **B8 - i47787**
Type: **Beam**

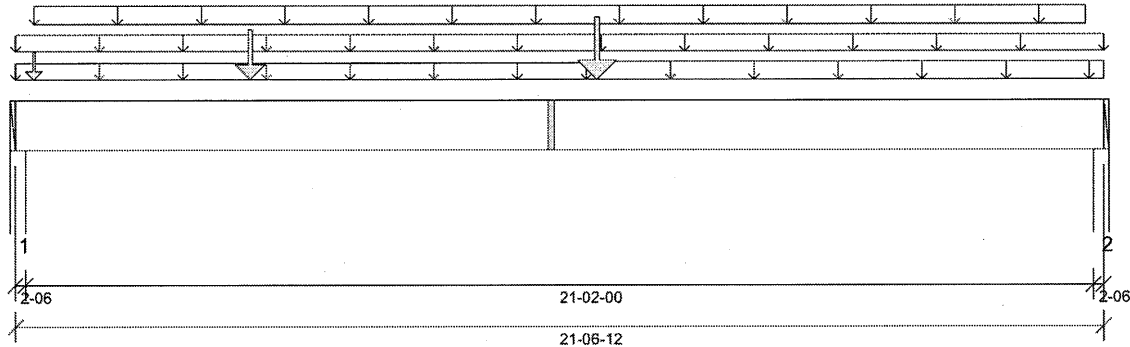
4 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 13:57



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: 10'- 5 1/16"

Factored Resistance of Support Material:

- 615 psi Wall @ 0'- 1 3/8"
- 615 psi Wall @ 21'- 5 3/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	11'- 6 3/8"	1.25D + 1.5L	1.00	26775 lb ft	53063 lb ft	Passed - 50%
Factored Shear:	1'- 2 1/4"	1.25D + 1.5L	1.00	4252 lb	28828 lb	Passed - 15%
Live Load (LL) Pos. Defl.:	10'- 8"	L		0.531"	L/360	Passed - L/478
Total Load (TL) Pos. Defl.:	10'- 8 3/8"	D + L		1.008"	L/240	Passed - L/252
Permanent Deflection:	10'- 8 13/16"			-	L/360	Passed - L/549

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	4942 lb		21785 lb	10228 lb	Passed - 48%
2	2'-06	1.25D + 1.5L	1.00	3676 lb		21785 lb	10228 lb	Passed - 36%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	21'- 6 3/4"	Self Weight	Top	26 lb/ft	-	-	-
Uniform	0'	21'- 6 3/4"	FC1 Floor Decking (Plan View Fill)	Top	6 lb/ft	15 lb/ft	-	-
Uniform	0'	11'- 3 7/8"	FC1 Floor Decking (Plan View Fill)	Top	4 lb/ft	12 lb/ft	-	-
Uniform	0'- 4 3/8"	21'- 2 3/8"	User Load	Top	60 lb/ft	-	-	-
Uniform	11'- 3 7/8"	21'- 6 3/4"	FC1 Floor Decking (Plan View Fill)	Top	11 lb/ft	30 lb/ft	-	-
Point	11'- 6 3/8"	11'- 6 3/8"	B6(i47798)	Front	479 lb	1223 lb	-	-
Point	0'- 4 3/8"	0'- 4 3/8"	User Load	Top	120 lb	320 lb	-	-
Point	4'- 7 7/8"	4'- 7 7/8"	User Load	Top	341 lb	907 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 3/8"	W36(i41726)	1643 lb	1945 lb	-	-
2	21'- 4 3/8"	21'- 6 3/4"	W21(i41601)	1394 lb	1270 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.
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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. 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.



86046709



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

Job Name: **343074 Ground A + Second A (1,**
 Level: **Ground Floor**
 Label: **B9 - i48327**
 Type: **Beam**

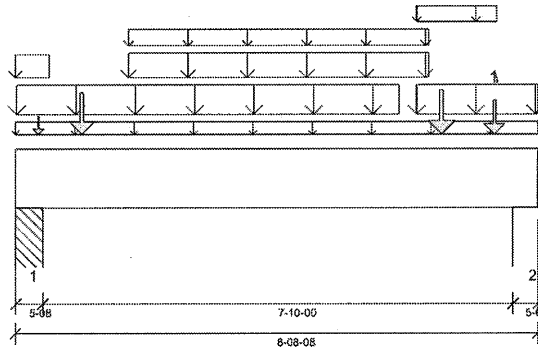
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 13:58



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'- 4 1/8"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 4 1/2"
- 615 psi Wall @ 8'- 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:	4'- 4 5/8"	1.25D + 1.5L	1.00	19427 lb ft	26531 lb ft	Passed - 73%
Factored Neg. Moment:	0'- 4 1/2"	1.25D + 1.5L	1.00	133 lb ft	26531 lb ft	Passed - 1%
Factored Shear:	7'- 3 5/8"	1.25D + 1.5L	1.00	8261 lb	14414 lb	Passed - 57%
Live Load (LL) Pos. Defl.:	4'- 4 1/2"	L		0.145"	L/360	Passed - L/648
Total Load (TL) Pos. Defl.:	4'- 4 1/2"	D + L		0.214"	L/240	Passed - L/438

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	10592 lb		25225 lb	25687 lb	Passed - 42%
1	5-08	1.25D + 1.5L	1.00	10592 lb		25225 lb	25687 lb	Passed - 42%
1	5-08	1.25D + 1.5L	1.00	10592 lb		25225 lb	25687 lb	Passed - 42%
1	5-08	1.25D + 1.5L	1.00	10592 lb		25225 lb	25687 lb	Passed - 42%
1	5-08	1.25D + 1.5L	1.00	10592 lb		25225 lb	25687 lb	Passed - 42%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%
2	5-00	1.25D + 1.5L	1.00	10412 lb		22932 lb	10766 lb	Passed - 97%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	8'- 8 1/2"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	8'- 8 1/2"	1(i41633)	Top	68 lb/ft	-	-	-
Uniform	0'	0'- 6 3/4"	1(i41633)	Top	161 lb/ft	368 lb/ft	-	-
Uniform	0'- 1/4"	6'- 4 3/4"	1(i41633)	Top	238 lb/ft	572 lb/ft	-	-
Uniform	1'- 10 5/8"	6'- 10 5/8"	Smoothed Load	Front	162 lb/ft	431 lb/ft	-	-
Uniform	1'- 10 5/8"	6'- 10 5/8"	Smoothed Load	Back	79 lb/ft	164 lb/ft	-	-
Uniform	6'- 8 1/4"	8'- 8 1/2"	1(i41633)	Top	243 lb/ft	573 lb/ft	-	-
Uniform	6'- 8 1/4"	8'- 1/4"	1(i41633)	Top	55 lb/ft	147 lb/ft	-	-
Point	1'- 1 1/4"	1'- 1 1/4"	-	Front	228 lb	557 lb	-	-
Point	7'- 1 1/4"	7'- 1 1/4"	-	Front	247 lb	606 lb	-	-
Point	7'- 11 13/16"	7'- 11 13/16"	-	Front	162 lb	431/-9 lb	-	-
Point	0'- 4 5/8"	0'- 4 5/8"	J4(i48379)	Back	60 lb	123 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	P11(i48351)	2448 lb	5065 lb	-	-
2	8'- 3 1/2"	8'- 8 1/2"	-	2369 lb	4924/-9 lb	-	-
++>	8'- 6 1/16"	8'- 6 1/16"	W20(i41599)	2369 lb	4924/-9 lb	-	-
++>	8'- 8 7/16"	8'- 8 7/16"	W21(i41601)	-	-	-	-

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.

836046710



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

Job Name: **343074 Ground A + Second A (1,**
Level: **Ground Floor**
Label: **B10 - i48381**
Type: **Beam**

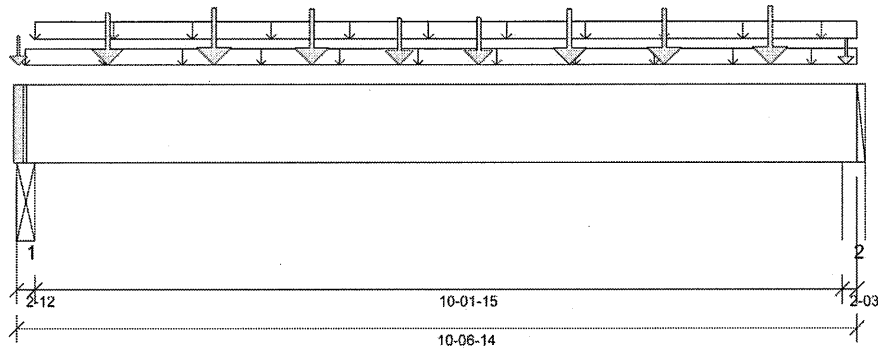
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 14:00



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'- 1 3/4"
- 615 psi Wall @ 10'- 5 11/16"

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



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 4 13/16"	1.25D + 1.5L	1.00	11536 lb ft	26531 lb ft	Passed - 43%
Factored Shear:	9'- 4 13/16"	1.25D + 1.5L	1.00	4108 lb	14414 lb	Passed - 29%
Live Load (LL) Pos. Defl.:	5'- 3 13/16"	L		0.137"	L/360	Passed - L/890
Total Load (TL) Pos. Defl.:	5'- 3 3/4"	D + L		0.214"	L/240	Passed - L/568

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	4520 lb		12613 lb	7402 lb	Passed - 61%
2	2-03	1.25D + 1.5L	1.00	4517 lb		10116 lb	4749 lb	Passed - 95%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	10'- 6 7/8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'- 1 1/4"	10'- 6 7/8"	FC1 Floor Decking (Plan View Fill)	Top	8 lb/ft	21 lb/ft	-	-
Uniform	0'- 2 3/4"	10'- 6 7/8"	User Load	Top	60 lb/ft	-	-	-
Point	1'- 1 3/4"	1'- 1 3/4"	J9(i48375)	Back	161 lb	429 lb	-	-
Point	2'- 5 3/4"	2'- 5 3/4"	J9(i48335)	Back	180 lb	481 lb	-	-
Point	3'- 8 1/2"	3'- 8 1/2"	J10(i48336)	Back	175 lb	467 lb	-	-
Point	4'- 9 3/4"	4'- 9 3/4"	J9(i48371)	Back	137 lb	365 lb	-	-
Point	5'- 9 3/4"	5'- 9 3/4"	J9(i48368)	Back	140 lb	372 lb	-	-
Point	6'- 11 1/2"	6'- 11 1/2"	J10(i48359)	Back	175 lb	466 lb	-	-
Point	8'- 1 3/4"	8'- 1 3/4"	J9(i48338)	Back	177 lb	473 lb	-	-
Point	9'- 5 3/4"	9'- 5 3/4"	J9(i48355)	Back	188 lb	500 lb	-	-
Point	0'- 1/4"	0'- 1/4"	7(i41711)	Top	79 lb	156 lb	-	-
Point	10'- 5 1/4"	10'- 5 1/4"	3(i41831)	Top	71 lb	108 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.)(i41700)	1172 lb	2042 lb	-	-
2	10'- 4 11/16"	10'- 6 7/8"	W19(i41602)	1182 lb	2022 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.

53046711



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

Job Name: **343074 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B11 - i48875**
Type: **Beam**

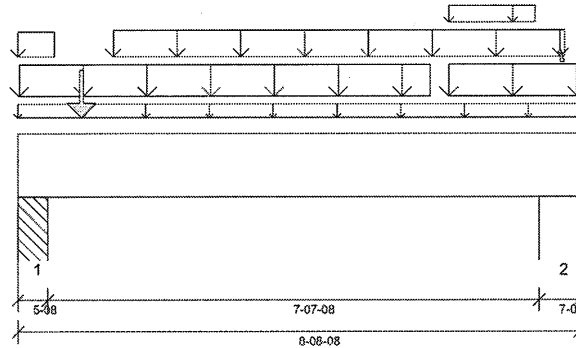
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/19/2022 15:58



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:

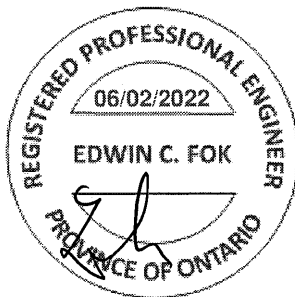
Both ends of the member and the outer supports
must be laterally restrained. Top and bottom edges
of the member must be fully restrained or have the
following maximum unbraced length:

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

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 0'- 4 1/2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 2"
- 615 psi Wall @ 8'- 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:	4'- 1 1/4"	1.25D + 1.5L	1.00	15770 lb ft	26531 lb ft	Passed - 59%
Factored Neg. Moment:	8'- 2"	1.25D + 1.5L	1.00	211 lb ft	26531 lb ft	Passed - 1%
Factored Shear:	7'- 1 1/8"	1.25D + 1.5L	1.00	6969 lb	14414 lb	Passed - 48%
Live Load (LL) Pos. Defl.:	4'- 3 3/16"	L		0.111"	L/360	Passed - L/821
Total Load (TL) Pos. Defl.:	4'- 3 3/16"	D + L		0.165"	L/240	Passed - L/555

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	8899 lb		25225 lb	25687 lb	Passed - 35%
1	5-08	1.25D + 1.5L	1.00	8899 lb		25225 lb	25687 lb	Passed - 35%
1	5-08	1.25D + 1.5L	1.00	8899 lb		25225 lb	25687 lb	Passed - 35%
1	5-08	1.25D + 1.5L	1.00	8899 lb		25225 lb	25687 lb	Passed - 35%
1	5-08	1.25D + 1.5L	1.00	8899 lb		25225 lb	25687 lb	Passed - 35%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%
2	7-08	1.25D + 1.5L	1.00	9448 lb		34398 lb	16149 lb	Passed - 59%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	8'- 8 1/2"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	8'- 8 1/2"	1(i41633)	Top	68 lb/ft	-	-	-
Uniform	0'	0'- 6 3/4"	1(i41633)	Top	161 lb/ft	368 lb/ft	-	-
Uniform	0'- 1/4"	6'- 4 3/4"	1(i41633)	Top	238 lb/ft	572 lb/ft	-	-
Uniform	1'- 5 3/4"	8'- 5 3/4"	Smoothed Load	Front	162 lb/ft	431 lb/ft	-	-
Uniform	6'- 8 1/4"	8'- 8 1/2"	1(i41633)	Top	243 lb/ft	573 lb/ft	-	-
Uniform	6'- 8 1/4"	8'- 1/4"	1(i41633)	Top	55 lb/ft	147 lb/ft	-	-
Point	0'- 11 3/4"	0'- 11 3/4"	J11(i48885)	Front	143 lb	382 lb	-	-
Point	8'- 5"	8'- 5"	1(i41633)	Top	-	-9 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	P11(i48934)	2056 lb	4253 lb	-	-
2	8'- 1"	8'- 8 1/2"	W21(i41601)	2148 lb	4475/-9 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.

SG046712



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

Job Name: **343074 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B12 (LOW) - i48939**
Type: **Beam**

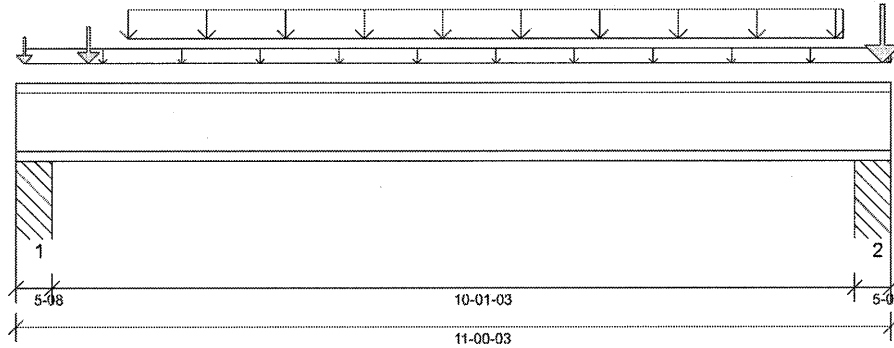
2 Ply Member
11 7/8" NI-20

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 04/19/2022 15:58



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 @ 10'- 7 11/16"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 10 15/16"	1.25D + 1.5L	1.00	5554 lb ft	11160 lb ft	Passed - 50%
Factored Neg. Moment:	10'- 7 11/16"	1.25D + 1.5L	1.00	199 lb ft	11160 lb ft	Passed - 2%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L	1.00	2146 lb	4480 lb	Passed - 48%
Live Load (LL) Pos. Defl.:	5'- 6"	L		0.116"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	5'- 6"	D + L		0.177"	L/240	Passed - L/683

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	2355 lb		4480 lb	36696 lb	Passed - 53%
2	5-08	1.25D + 1.5L	1.00	2872 lb		4480 lb	36696 lb	Passed - 64%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	11'- 3/16"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'- 1 1/4"	11'- 3/16"	FC1 Floor Decking (Plan View Fill)	Top	2 lb/ft	5 lb/ft	-	-
Uniform	1'- 4 15/16"	10'- 4 15/16"	Smoothed Load	Back	97 lb/ft	195 lb/ft	-	-
Point	0'- 1 1/4"	0'- 1 1/4"	J2(i48876)	Back	47 lb	95 lb	-	-
Point	0'- 10 15/16"	0'- 10 15/16"	J2(i48889)	Back	88 lb	176 lb	-	-
Point	10'- 10 15/16"	10'- 10 15/16"	J2(i48935)	Back	186 lb	332 lb	-	-

UNFACTORED REACTIONS

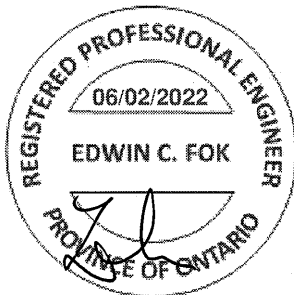
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	Pt1(i48932)	579 lb	1101 lb	-	-
2	10'- 6 11/16"	11'- 3/16"	Pt1(i48931)	705 lb	1313 lb	-	-

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.



82046713



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

Job Name: **343074 Ground A W Sunken M..**
Level: **Ground Floor**
Label: **B13 (LOW) - i48925**
Type: **Beam**

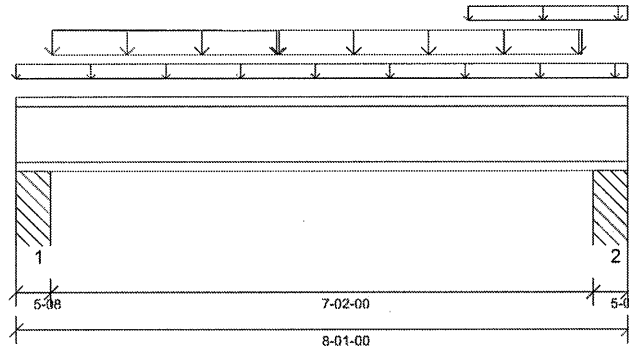
1 Ply Member
11 7/8" NI-20

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 04/19/2022 15:58



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 1/2"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 7'- 8 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 11 3/4"	1.25D + 1.5L	1.00	2255 lb ft	5580 lb ft	Passed - 40%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L	1.00	1186 lb	2240 lb	Passed - 53%
Live Load (LL) Pos. Defl.:	4'- 1/2"	L		0.056"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	4'- 1/2"	D + L		0.085"	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	1193 lb		2240 lb	18348 lb	Passed - 53%
2	5-08	1.25D + 1.5L	1.00	1163 lb		2240 lb	18348 lb	Passed - 52%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	8'- 1"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	8'- 1"	FC1 Floor Decking (Plan View Fill)	Top	2 lb/ft	5 lb/ft	-	-
Uniform	3'- 5 3/4"	7'- 5 3/4"	Smoothed Load	Back	75 lb/ft	148 lb/ft	-	-
Tapered	0'- 5 3/4"	3'- 5 3/4"	Smoothed Load	Back	80 To 67 lb/ft	151 lb/ft	-	-
Tapered	5'- 11 3/4"	8'- 1"	FC1 Floor Decking (Plan View Fill)	Top	-	8 To 4 lb/ft	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	Pt1(i48887)	286 lb	557 lb	-	-
2	7'- 7 1/2"	8'- 1"	Pt1(i48890)	281 lb	542 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.



C2046714



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

Job Name: **343074 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B14 (LOW) - i48937**
Type: **Beam**

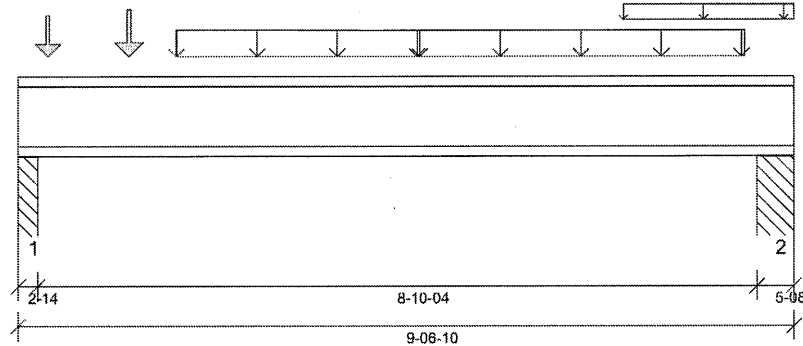
1 Ply Member
11 7/8" NI-20

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 04/19/2022 15:59



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 1/2"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 1 7/8"
- 1334 psi Column @ 9'- 2 1/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 5 3/8"	1.25D + 1.5L	1.00	3464 lb ft	5580 lb ft	Passed - 62%
Factored Shear:	0'- 2 15/16"	1.25D + 1.5L	1.00	1803 lb	2240 lb	Passed - 80%
Live Load (LL) Pos. Defl.:	4'- 7 3/4"	L		0.119"	L/360	Passed - L/895
Total Load (TL) Pos. Defl.:	4'- 7 3/4"	D + L		0.180"	L/240	Passed - L/591

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'-14	1.25D + 1.5L	1.00	1804 lb		2105 lb	9590 lb	Passed - 86%
2	5'-08	1.25D + 1.5L	1.00	1442 lb		2240 lb	18348 lb	Passed - 64%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	9'- 6 5/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	4'- 11 3/8"	8'- 11 3/8"	Smoothed Load	Front	75 lb/ft	150 lb/ft	-	-
Tapered	1'- 11 3/8"	4'- 11 3/8"	Smoothed Load	Front	82 To 69 lb/ft	155 lb/ft	-	-
Tapered	7'- 5 3/8"	9'- 6 5/8"	FC1 Floor Decking (Plan View Fill)	Top	-	11 To 6 lb/ft	-	-
Point	0'- 4 3/8"	0'- 4 3/8"	J2(i48915)	Front	97 lb	195 lb	-	-
Point	1'- 4 3/8"	1'- 4 3/8"	J2(i48935)	Front	121 lb	234 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 2 7/8"	Pt1(i48936)	436 lb	845 lb	-	-
2	9'- 1 1/8"	9'- 6 5/8"	Pt1(i48938)	346 lb	667 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.



83046715



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

Job Name: **343074 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B15 (LOW) - i48920**
Type: **Beam**

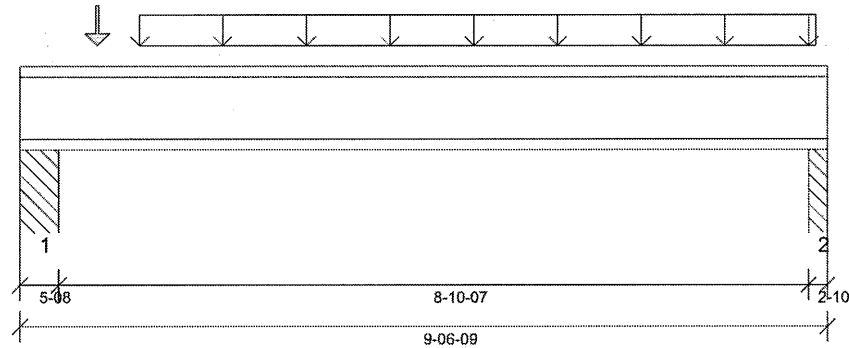
1 Ply Member
11 7/8" NI-20

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 04/19/2022 15:59



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 @ 9'- 4 15/16"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 10 15/16"	1.25D + 1.5L	1.00	4300 lb ft	5580 lb ft	Passed - 77%
Factored Shear:	9'- 3 7/8"	1.25D + 1.5L	1.00	1883 lb	2240 lb	Passed - 84%
Live Load (LL) Pos. Defl.:	4'- 10 3/4"	L		0.147"	L/360	Passed - L/723
Total Load (TL) Pos. Defl.:	4'- 10 3/4"	D + L		0.222"	L/240	Passed - L/478

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	1834 lb		2240 lb	18348 lb	Passed - 82%
2	2-10	1.25D + 1.5L	1.00	1884 lb		2075 lb	8758 lb	Passed - 91%

SPECIFIED LOADS

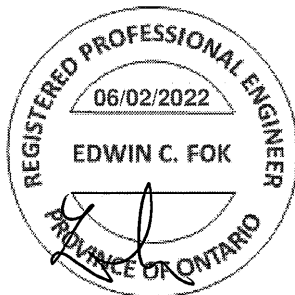
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	9'- 6 9/16"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	1'- 4 15/16"	9'- 4 15/16"	Smoothed Load	Front	97 lb/ft	195 lb/ft	-	-
Point	0'- 10 15/16"	0'- 10 15/16"	J2(i48889)	Front	88 lb	176 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	Pt1(i48888)	440 lb	856 lb	-	-
2	9'- 3 15/16"	9'- 6 9/16"	Pt1(i48936)	451 lb	880 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.



57046716



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

Job Name: **343074 Ground A + Second A...**
Level: **Second Floor**
Label: **B16 - i50242**
Type: **Beam**

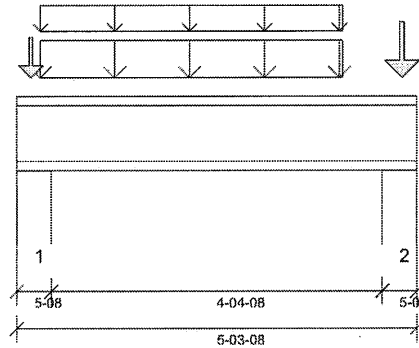
2 Ply Member
11 7/8" NI-20

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 04/20/2022 14:09



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:

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

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'-3 3/4"	1.25D + 1.5L	1.00	2945 lb ft	11160 lb ft	Passed - 26%
Factored Neg. Moment:	4'-11"	1.25D + 1.5L	1.00	221 lb ft	11160 lb ft	Passed - 2%
Factored Shear:	0'-5 9/16"	1.25D + 1.5L	1.00	2490 lb	4480 lb	Passed - 56%
Live Load (LL) Pos. Defl.:	2'-7 5/8"	L		0.022"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	2'-7 5/8"	D + L		0.031"	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	3281 lb		4480 lb	16918 lb	Passed - 73%
2	5-08	1.25D + 1.5L	1.00	3567 lb		4480 lb	16918 lb	Passed - 80%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	5'-3 1/2"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'-3 3/4"	4'-3 3/4"	Smoothed Load	Front	172 lb/ft	382 lb/ft	-	-
Uniform	0'-3 3/4"	4'-3 3/4"	Smoothed Load	Back	78 lb/ft	208 lb/ft	-	-
Point	0'-2 1/4"	0'-2 1/4"	J11(49907)	Front	172 lb	382 lb	-	-
Point	5'-1 1/8"	5'-1 1/8"	-	Front	256 lb	607 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'-5 1/2"	7(41711)	710 lb	1619 lb	-	-
2	4'-10"	5'-3 1/2"	6(41710)	750 lb	1730 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.



SB04671)



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

Job Name: **343074 Ground A + Second A...**
Level: **Second Floor**
Label: **B17 - i49968**
Type: **Beam**

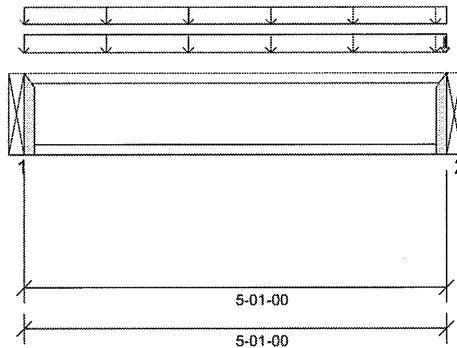
1 Ply Member
11 7/8" NI-20

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 04/20/2022 14:09



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'- 1"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'
- 769 psi Beam @ 5'- 1"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 6 1/2"	1.25D + 1.5L	0.77	421 lb ft	4298 lb ft	Passed - 10%
Factored Shear:	5'- 15/16"	1.25D + 1.5L	0.77	338 lb	1725 lb	Passed - 20%
Total Load (TL) Pos. Defl.:	2'- 6 1/2"	D + L		0.011"	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	0.77	331 lb		1970 lb	-	Passed - 17%
2	1-12	1.25D + 1.5L	0.77	339 lb		1970 lb	-	Passed - 17%

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	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

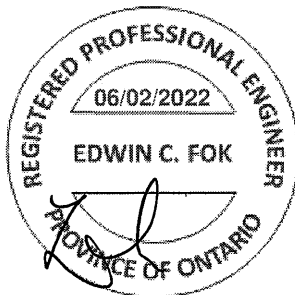
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	5'- 1"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	5'- 1"	19(i49845)	Top	61 lb/ft	-	-	-
Uniform	0'	5'- 1"	FC2 Floor Decking (Plan View Fill)	Top	10 lb/ft	26 lb/ft	-	-
Point	5'- 3/4"	5'- 3/4"	19(i49845)	Top	6 lb	-	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B20(i50472)	186 lb	66 lb	-	-
2	5'- 1"	5'- 1"	B18(i50049)	192 lb	66 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.



343074



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

Job Name: **343074 Ground A + Second A...**
Level: **Second Floor**
Label: **B18 - i50049**
Type: **Beam**

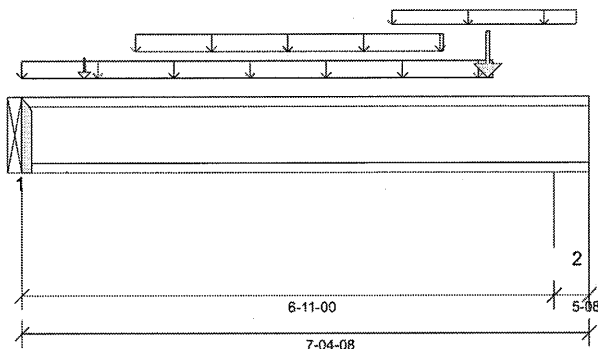
1 Ply Member
11 7/8" NI-20

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 04/20/2022 14:09



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 @ 7'

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 5 3/4"	1.25D + 1.5L	0.85	1255 lb ft	4755 lb ft	Passed - 26%
Factored Shear:	6'- 10 15/16"	1.25D + 1.5L	0.85	865 lb	1909 lb	Passed - 45%
Live Load (LL) Pos. Defl.:	3'- 6 11/16"	L		0.017"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 6 15/16"	D + L		0.048"	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	0.85	631 lb		1970 lb	-	Passed - 32%
2	5-08	1.25D + 1.5L	0.85	869 lb		1909 lb	7209 lb	Passed - 46%

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'	7'- 4 1/2"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	6'- 1 1/2"	18(i49844)	Top	61 lb/ft	-	-	-
Uniform	1'- 5 3/4"	5'- 5 3/4"	Smoothed Load	Back	18 lb/ft	48 lb/ft	-	-
Uniform	4'- 9 3/4"	7'- 2 1/2"	FC2 Floor Decking (Plan View Fill)	Top	-	4 lb/ft	-	-
Point	0'- 9 3/4"	0'- 9 3/4"	J6(i49656)	Back	21 lb	55 lb	-	-
Point	6'- 3/4"	6'- 3/4"	-	Top	258 lb	120 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B19(i50162)	315 lb	166 lb	-	-
2	6'- 11"	7'- 4 1/2"	2(i41632)	431 lb	212 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.



53046719



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

Job Name: **343074 Ground A + Second A...**
Level: **Second Floor**
Label: **B19 - i50162**
Type: **Beam**

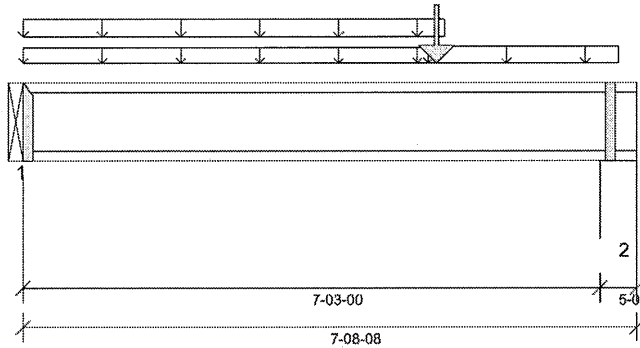
1 Ply Member
11 7/8" NI-20

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 04/20/2022 14:09



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'- 1"

Factored Resistance of Support Material:

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

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	5'- 2 1/4"	1.25D + 1.5L	0.80	1512 lb ft	4480 lb ft	Passed - 34%
Factored Shear:	7'- 2 15/16"	1.25D + 1.5L	0.80	763 lb	1798 lb	Passed - 42%
Live Load (LL) Pos. Defl.:	3'- 11 1/2"	L		0.016"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 10 1/4"	D + L		0.058"	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	1.4D	0.65	461 lb		1970 lb	-	Passed - 23%
2	5-08	1.25D + 1.5L	0.80	778 lb		1798 lb	6791 lb	Passed - 43%

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

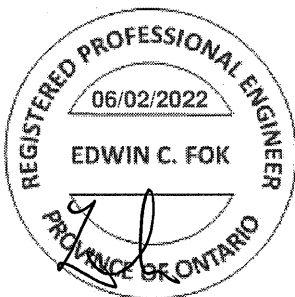
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 8 1/2"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	0'	5'- 3 1/2"	21(i49846)	Top	61 lb/ft	-	-	-
Uniform	0'	5'- 1"	FC2 Floor Decking (Plan View Fill)	Top	4 lb/ft	11 lb/ft	-	-
Uniform	5'- 1"	7'- 5 3/4"	FC2 Floor Decking (Plan View Fill)	Top	10 lb/ft	28 lb/ft	-	-
Point	5'- 2 5/16"	5'- 2 5/16"	-	Front	328 lb	166 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B20(i50472)	339 lb	99 lb	-	-
2	7'- 3"	7'- 8 1/2"	3(i41631)	379 lb	191 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.
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- 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.



SE046720



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

Job Name: **343074 Ground A + Second A...**
Level: **Second Floor**
Label: **B20 - i50472**
Type: **Beam**

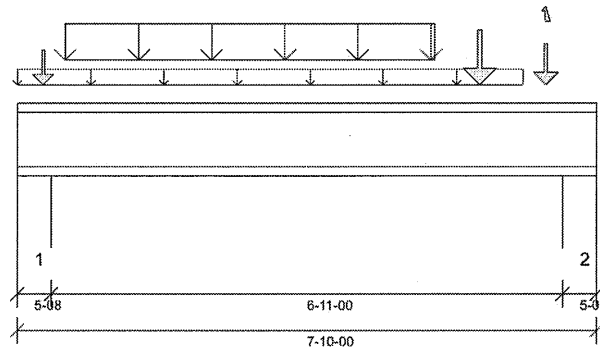
2 Ply Member
11 7/8" NI-20

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 04/20/2022 14:10



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:

- 615 psi Wall @ 0'- 4 1/2"
- 615 psi Wall @ 7'- 5 1/2"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 1 3/4"	1.25D + 1.5L	1.00	6437 lb ft	11160 lb ft	Passed - 58%
Factored Shear:	7'- 4 7/16"	1.25D + 1.5L	1.00	3900 lb	4480 lb	Passed - 87%
Live Load (LL) Pos. Defl.:	3'- 11 1/16"	L		0.073"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 11 3/16"	D + L		0.117"	L/240	Passed - L/710

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	3981 lb		4480 lb	16918 lb	Passed - 89%
2	5-08	1.25D + 1.5L	1.00	3908 lb		4480 lb	16918 lb	Passed - 87%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 10"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	6'- 10"	20(i49847)	Top	61 lb/ft	-	-	-
Uniform	0'- 7 3/4"	5'- 7 3/4"	Smoothed Load	Front	193 lb/ft	447 lb/ft	-	-
Point	7'- 1 3/4"	7'- 1 3/4"	J8(i50302)	Front	176 lb	428/-19 lb	-	-
Point	0'- 4 3/16"	0'- 4 3/16"	-	Back	364 lb	99 lb	-	-
Point	6'- 3"	6'- 3"	-	Top	391 lb	507 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	17(i49616)	1283 lb	1569/-1 lb	-	-
2	7'- 4 1/2"	7'- 10"	2(i41632)	1079 lb	1722/-18 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.



SG04672



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

Job Name: **343074 Ground A + Second A...**
Level: **Ground Floor**
Label: **B21 - i50584**
Type: **Beam**

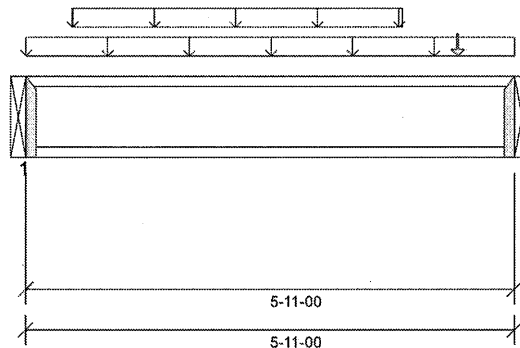
1 Ply Member
11 7/8" NI-20

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 04/20/2022 14:10



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 @ 5'- 11"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 7 9/16"	1.25D + 1.5L	0.86	833 lb ft	4771 lb ft	Passed - 17%
Factored Shear:	5'- 10 15/16"	1.25D + 1.5L	0.86	539 lb	1915 lb	Passed - 28%
Total Load (TL) Pos. Defl.:	2'- 11 7/16"	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	1-12	1.25D + 1.5L	0.86	512 lb		1970 lb	-	Passed - 26%
2	1-12	1.25D + 1.5L	0.86	539 lb		1970 lb	-	Passed - 27%

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	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'	5'- 11"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	5'- 11"	12(i49611)	Top	68 lb/ft	-	-	-
Uniform	0'- 6 3/4"	4'- 6 3/4"	Smoothed Load	Back	20 lb/ft	53 lb/ft	-	-
Point	5'- 2 3/4"	5'- 2 3/4"	J6(i50568)	Back	21 lb	56 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B24(i50571)	258 lb	126 lb	-	-
2	5'- 11"	5'- 11"	B22(i50580)	263 lb	141 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.



53046702



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

Job Name: **343074 Ground A + Second A...**
Level: **Ground Floor**
Label: **B22 - i50580**
Type: **Beam**

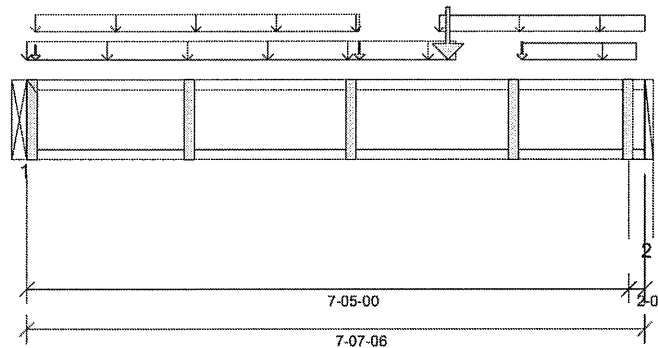
1 Ply Member
11 7/8" NI-20

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 04/20/2022 14:10



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 @ 7'- 6"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	4'- 7 7/16"	1.25D + 1.5L	0.86	1667 lb ft	4796 lb ft	Passed - 35%
Factored Shear:	7'- 4 15/16"	1.25D + 1.5L	0.86	821 lb	1925 lb	Passed - 43%
Live Load (LL) Pos. Defl.:	3'- 11 1/16"	L		0.022"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 10 1/2"	D + L		0.068"	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	0.86	705 lb		1970 lb	-	Passed - 36%
2	2-06	1.25D + 1.5L	0.86	836 lb		1758 lb	3139 lb	Passed - 48%

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

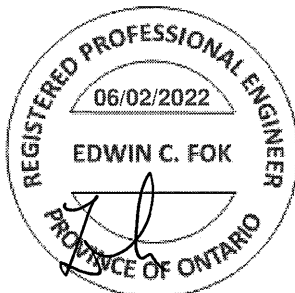
Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	7'- 7 3/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	-0'	5'- 3 1/2"	13(i49612)	Top	68 lb/ft	-	-	-
Uniform	0'- 1 1/4"	4'- 1 1/4"	FC1 Floor Decking (Plan View Fill)	Top	11 lb/ft	29 lb/ft	-	-
Uniform	5'- 1"	7'- 7 3/8"	FC1 Floor Decking (Plan View Fill)	Top	6 lb/ft	16 lb/ft	-	-
Uniform	6'- 1 1/4"	7'- 6 1/8"	FC1 Floor Decking (Plan View Fill)	Top	10 lb/ft	27 lb/ft	-	-
Point	0'- 1 1/4"	0'- 1 1/4"	Bk1(i50401)	Front	-	4 lb	-	-
Point	4'- 1 1/4"	4'- 1 1/4"	Bk1(i50274)	Front	11 lb	29 lb	-	-
Point	6'- 1 1/4"	6'- 1 1/4"	Bk1(i50337)	Front	10 lb	26 lb	-	-
Point	5'- 2 5/16"	5'- 2 5/16"	-	Back	279 lb	141 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B23(i50559)	378 lb	162 lb	-	-
2	7'- 5"	7'- 7 3/8"	W19(i41602)	379 lb	235 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.



36046723



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

Job Name: **343074 Ground A + Second A...**
Level: **Ground Floor**
Label: **B23 - i50559**
Type: **Beam**

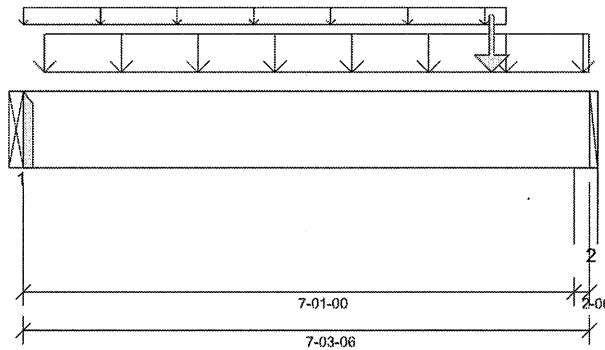
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/20/2022 14:11



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'- 8 1/2"

Factored Resistance of Support Material:

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

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



ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	3'- 9 1/4"	1.25D + 1.5L	1.00	6787 lb ft	26531 lb ft	Passed - 26%
Factored Shear:	6'- 1 1/8"	1.25D + 1.5L	1.00	4095 lb	14414 lb	Passed - 28%
Live Load (LL) Pos. Defl.:	3'- 7 1/4"	L		0.037"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 7 7/16"	D + L		0.061"	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	1.00	3391 lb		6880 lb	-	Passed - 49%
2	2-06	1.25D + 1.5L	1.00	4153 lb		10891 lb	5113 lb	Passed - 81%

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'	7'- 3 3/8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'	6'- 2 1/2"	14(49813)	Top	68 lb/ft	-	-	-
Uniform	0'- 3 1/4"	7'- 3 1/4"	Smoothed Load	Front	166 lb/ft	444 lb/ft	-	-
Point	6'- 5/16"	6'- 5/16"	-	Back	402 lb	162 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'	B24(i50571)	910 lb	1500 lb	-	-
2	7'- 1"	7'- 3 3/8"	W20(i41599)	1181 lb	1787 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.

SE046724



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

Job Name: **343074 Ground A + Second A...**
Level: **Ground Floor**
Label: **B24 - i50571**
Type: **Beam**

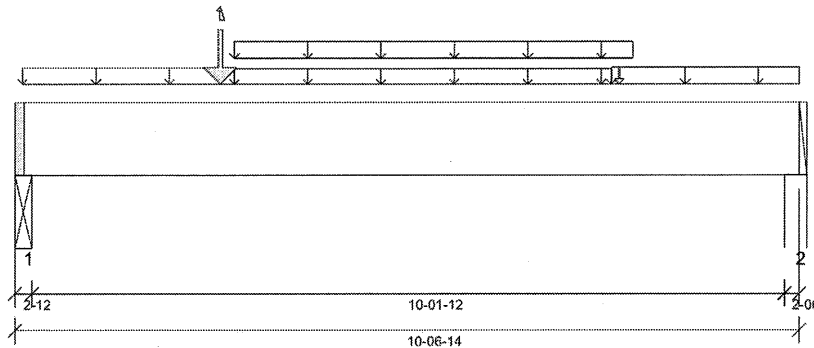
2 Ply Member
1 3/4" x 11 7/8" 1.55E
TimberStrand® LSL

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 04/20/2022 14:11



DESIGN INFORMATION

Building Code: NBCC 2015, Part 9, 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'- 1"

Factored Resistance of Support Material:

- 769 psi Beam @ 0'- 1 3/4"
- 615 psi Wall @ 10'- 5 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:	2'- 9 3/4"	1.25D + 1.5L	1.00	16070 lb ft	26531 lb ft	Passed - 61%
Factored Shear:	1'- 2 5/8"	1.25D + 1.5L	1.00	6177 lb	14414 lb	Passed - 43%
Live Load (LL) Pos. Defl.:	4'- 9 7/16"	L		0.132"	L/360	Passed - L/923
Total Load (TL) Pos. Defl.:	4'- 10 5/16"	D + L		0.251"	L/240	Passed - L/484

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	6296 lb		12612 lb	7402 lb	Passed - 85%
2	2-06	1.25D + 1.5L	1.00	3037 lb		10893 lb	5114 lb	Passed - 59%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	10'- 6 7/8"	Self Weight	Top	13 lb/ft	-	-	-
Uniform	0'- 1 1/4"	2'- 11 1/2"	FC1 Floor Decking (Plan View Fill)	Top	16 lb/ft	42 lb/ft	-	-
Uniform	2'- 11 1/2"	8'- 4"	15(i49614)	Top	68 lb/ft	-	-	-
Uniform	2'- 11 1/2"	8'- 1/2"	FC1 Floor Decking (Plan View Fill)	Top	10 lb/ft	26 lb/ft	-	-
Uniform	8'- 1/2"	10'- 6 7/8"	FC1 Floor Decking (Plan View Fill)	Top	19 lb/ft	51 lb/ft	-	-
Point	2'- 9 3/16"	2'- 9 3/16"	-	Front	2213 lb	3069/-1 lb	-	-
Point	8'- 1 3/4"	8'- 1 3/4"	B21(i50584)	Front	258 lb	126 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.) (i41700)	2064 lb	2513/-1 lb	-	-
2	10'- 4 1/2"	10'- 6 7/8"	W19(i41602)	1106 lb	1068 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.



82046725



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

Job Name: **343074 Ground A W Sunken M...**
Level: **Ground Floor**
Label: **B25 (LOW) - i51663**
Type: **Beam**

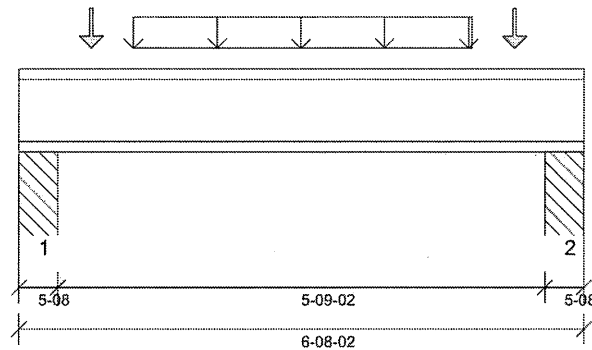
1 Ply Member
11 7/8" NI-20

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 04/20/2022 15:34



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'- 9 1/2"

Factored Resistance of Support Material:

- 1334 psi Column @ 0'- 4 1/2"
- 1334 psi Column @ 6'- 3 5/8"

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	2'- 10 1/4"	1.25D + 1.5L	1.00	1846 lb ft	5580 lb ft	Passed - 33%
Factored Shear:	6'- 2 9/16"	1.25D + 1.5L	1.00	1224 lb	2240 lb	Passed - 55%
Live Load (LL) Pos. Defl.:	3'- 4 1/16"	L		0.035"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	3'- 4 1/16"	D + L		0.053"	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	1219 lb		2240 lb	18348 lb	Passed - 54%
2	5-08	1.25D + 1.5L	1.00	1226 lb		2240 lb	18348 lb	Passed - 55%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	6'- 8 1/8"	Self Weight	Top	3 lb/ft	-	-	-
Uniform	1'- 4 1/4"	5'- 4 1/4"	Smoothed Load	Front	99 lb/ft	199 lb/ft	-	-
Point	0'- 10 1/4"	0'- 10 1/4"	J3(i51699)	Front	87 lb	174 lb	-	-
Point	5'- 10 1/4"	5'- 10 1/4"	J3(i51694)	Front	85 lb	171 lb	-	-

UNFACTORED REACTIONS

ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Wind (W)
1	0'	0'- 5 1/2"	Pt1(i51690)	293 lb	569 lb	-	-
2	6'- 2 5/8"	6'- 8 1/8"	Pt1(i51691)	294 lb	572 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.



5504626



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

Job Name: **343074 Ground B + Second B (\$**
Level: **Second Floor**
Label: **B26 - i48477**
Type: **Beam**

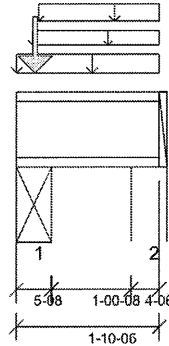
2 Ply Member
11 7/8" NI-20

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 04/21/2022 11:08



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 5/8"

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 Pos. Moment:	1'- 9/16"	0.9D + 1.5L	0.75	14 lb ft	8386 lb ft	Passed - 0%
Factored Neg. Moment:	0'- 4 1/2"	1.25D + 1.5S	0.95	203 lb ft	10590 lb ft	Passed - 2%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L	0.75	431 lb	3367 lb	Passed - 13%

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	0.99	1420 lb		4430 lb	20911 lb	Passed - 32%
2	4-06	1.25D + 1.5L	0.75	141 lb		3367 lb	10113 lb	Passed - 4%

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"	E54(i49572)	Top	101 lb/ft	-	-	-
Uniform	0'- 2 1/2"	1'- 10 3/8"	FC2 Floor Decking (Plan View Fill)	Top	-	8 lb/ft	-	-
Uniform	0'- 3 1/2"	1'- 10 3/8"	E54(i49572)	Top	27 lb/ft	-	42 lb/ft	-
Point	0'- 2 15/16"	0'- 2 15/16"	-	Front	298 lb	159 lb	365 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.) (i41719)	488 lb	166 lb	490 lb	-
2	1'- 6"	1'- 10 3/8"	E9(i41620)	57 lb	8 lb	-59 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.



35046727



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

Job Name: **343074 Ground C + Second C (9,**
Level: **Second Floor**
Label: **B27 - i48477**
Type: **Beam**

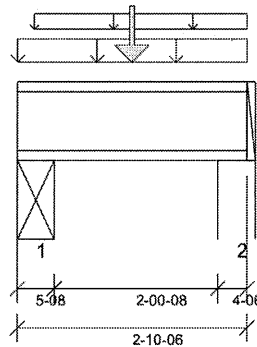
2 Ply Member
11 7/8" NI-20

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 04/22/2022 10:17



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'- 11 5/8"

Factored Resistance of Support Material:

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

ANALYSIS RESULTS

Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Factored Pos. Moment:	1'- 5 1/8"	1.25D + 1.5L + S	0.96	496 lb ft	10671 lb ft	Passed - 5%
Factored Shear:	0'- 5 9/16"	1.25D + 1.5L + S	0.96	584 lb	4284 lb	Passed - 14%

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	0.96	685 lb		4284 lb	20220 lb	Passed - 16%
2	4-06	1.25D + 1.5L + S	0.96	632 lb		4284 lb	12867 lb	Passed - 15%

SPECIFIED LOADS

Type	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Wind (W)
Self Weight	0'	2'- 10 3/8"	Self Weight	Top	6 lb/ft	-	-	-
Uniform	0'	2'- 10 3/8"	E53(i49562)	Top	128 lb/ft	-	42 lb/ft	-
Uniform	0'- 2 1/2"	2'- 10 3/8"	FC2 Floor Decking (Plan View Fill)	Top	3 lb/ft	8 lb/ft	-	-
Point	1'- 5 1/8"	1'- 5 1/8"	J1(i49155)	Front	128 lb	342 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.)(i41719)	271 lb	190 lb	63 lb	-
2	2'- 6"	2'- 10 3/8"	E9(i41620)	249 lb	175 lb	58 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.



320467-8

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				1/2 in. gypsum ceiling			
		On centre spacing				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"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
14"	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"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
16"	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				Mid-span blocking and 1/2 in. gypsum ceiling			
		On centre spacing				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"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
14"	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"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
16"	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.

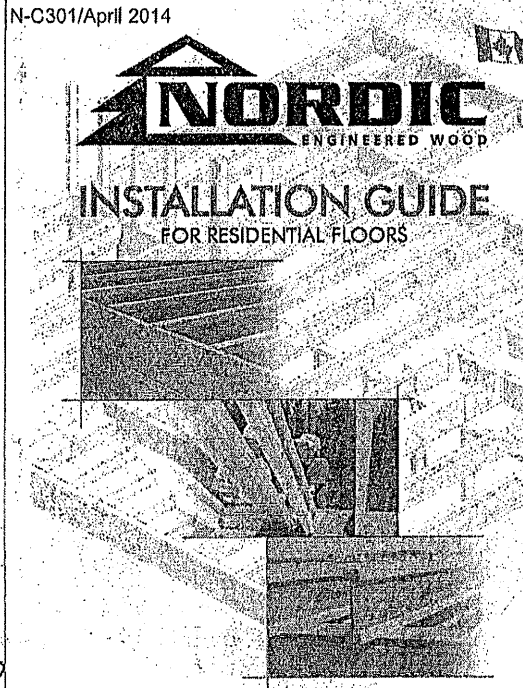
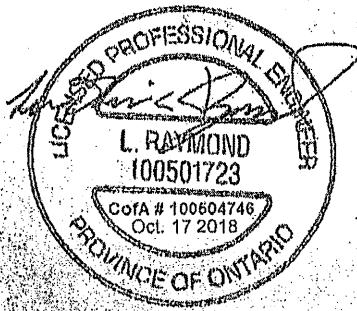
The construction details for residential designs are prone to changes.

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.

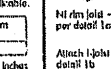
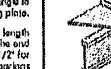
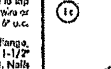
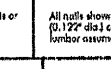
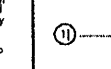
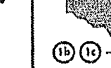
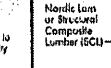
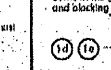
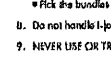
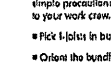
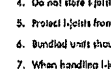
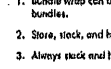
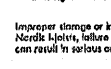
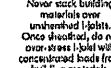
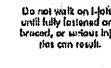
Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



Distributed by:



SAFETY AND CONSTRUCTION PRECAUTIONS



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 temporary blocking panels, rim board, and/or cross-bracing of joist walls. When I-Joists are up and 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 blocking 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.
3. Temporary bracing or struts must be 1-1/2 inch minimum, at least 8 feet long and spaced no more than 6 feet on center, and must be secured with a minimum of two 2-1/2" nails (driven to the top surface of each I-Joist). Nail the bracing in a lateral restraint at the end of each bay. Top ends of adjoining bracing over at least two I-Joists.
4. 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.
5. For cantilevered I-Joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bracing.
6. 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.
7. Never install a damaged I-Joist.

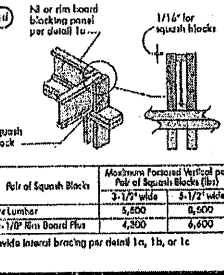
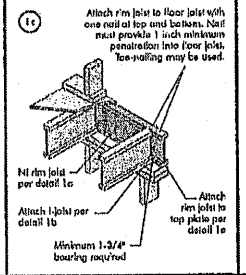
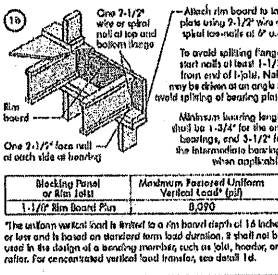
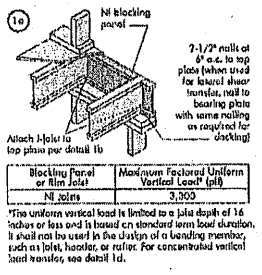
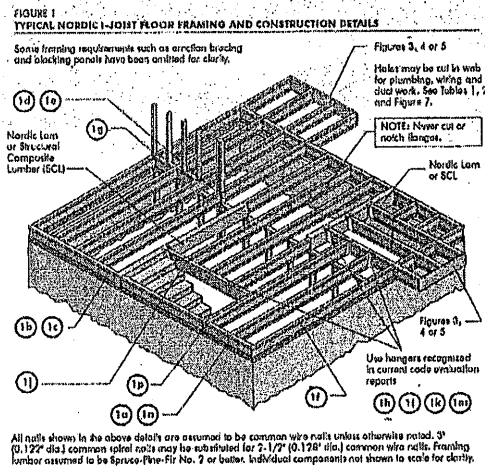
Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-Joists, failure to follow allowable live load and dead load, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines 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 moisture.
5. Protect I-Joists from weather, and use spacers to separate bundles.
6. Bundled units should be kept intact until time of installation.
7. 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 or shipped by the supplier.
 - Orient the bundles so that the webs of the I-Joists are vertical.
 - Pick the bundles at the 5th points, using a spreader bar if necessary.
8. Do not handle I-Joists in a horizontal orientation.
9. NEVER USE CRANE 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: 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 eliminate joist movement.
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 roof lighting fixtures, audio equipment and security cameras. Never suspend unusual or heavy loads from the I-Joist's bottom flange. Whenever possible, suspend 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 joist 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 (riprip 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. Use 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: Splice nails installed to the flange's top face in accordance with the applicable building code requirements or approved building plans.



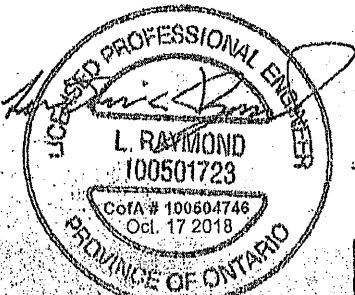
The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

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



N-C301/April 2014

MAXIMUM FLOOR SPANS

- Maximum clear spans applicable to single-span or multiple-span rectangular floor construction with a design live load of 40 psf and dead load of 15 psf. The ultimate live loads are based on the factored loads of 1.50L + 1.25D. The serviceability limit state includes the consideration for floor vibration and a live load deflection limit of L/480. For multiple-span applications, the end spans shall be 40% or more of the adjacent spans.
- Spans are based on a composite floor with precast concrete slabs and steel reinforcement (CSC) sheathing with a minimum thickness of 5/8 inch for joist spacing of 19.2 inches or less, or 3/4 inch for joist spacing of 24 inches. Adhesive shall meet the requirements given in CCB-71.28 Standard. No concrete topping or bridging element was assumed. Increased spans may be achieved with the use of systems and/or a row of blocking at mid-span.
- Minimum bearing length shall be 1 3/4 inches for the end and bearings, and 1 1/2 inches for the intermediate bearings.
- Bearing stiffeners are not required when I-joists are used with the spans and end bearings given in this table, except as required for hangers.
- This span chart is based on uniform loads. For applications with other than uniform loads, an engineering analysis may be required based on the use of the design properties.
- Tables are based on Unit States Design per CAN/CSA C08-09 Standard, and NBC 7010.
- SI units conversion: 1 inch = 25.4 mm, 1 foot = 0.305 m

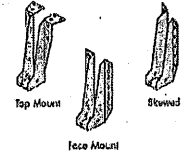
MAXIMUM FLOOR SPANS FOR NORDIC I-JOISTS

I-Joist Size	Span (ft)									
	12	14	16	18	20	22	24	26	28	30
2x8	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
2x10	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0
2x12	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
2x14	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0
2x16	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
2x18	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0
2x20	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0
2x22	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0
2x24	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0
2x26	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0
2x28	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0
2x30	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0

CCBC EVALUATION REPORT 180576

I-JOIST HANGERS

- Hangers shown illustrate the three most commonly used metal hangers to support I-joists.
- All nailing must meet the hanger manufacturer's recommendations.
- Hangers should be selected based on the joist depth, flange width and load capacity based on the maximum spans.
- Web stiffeners are required when the sides of the hangers do not laterally brace the top flange of the I-joist.



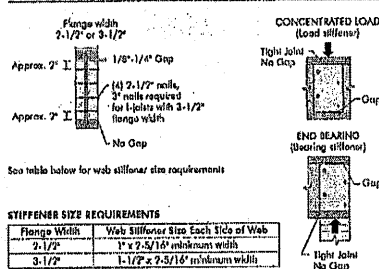
WEB STIFFENERS

RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with lateral reactions greater than shown in the I-joist properties table found in the I-joist Construction Guide (C101) the gap between the stiffener and the flange is at the top.
- A bearing stiffener is required when the I-joist is supported in a hanger and the sides of the hanger do not extend up to, and support, the top flange. The gap between the stiffener and flange is at the top.
- A load stiffener is required at locations where a factored concentrated load greater than 2,370 lbs is applied to the top flange between supports, or in the case of a cantilever, anywhere between the cantilever tip and the support. These walls are for standard term load duration, and may be adjusted for other load durations as permitted by the code. The gap between the stiffener and the flange is at the bottom.

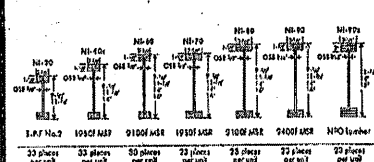
SI units conversion: 1 inch = 25.4 mm

FIGURE 2 WEB STIFFENER INSTALLATION DETAILS



Flange Width	Web Stiffener Size Each Side of Web
2-1/2"	1" x 2-5/16" minimum width
3-1/2"	1-1/2" x 2-5/16" minimum width

NORDIC I-JOIST SERIES



Champion Clutchgum Ltd. harvests its own trees, which enables Nordic products to adhere to strict quality control procedures throughout the manufacturing process. Every phase of the operation, from forest to the finished product, reflects our commitment to quality.

Nordic Engineered Wood I-joists use only finger-jointed black spruce lumber in their flanges, ensuring consistent quality, superior strength, and longer span carrying capacity.

1a Transfer load from above to bearing below. Install equal blocks per detail 1d. Match bearing area of blocks below in post above.

1b Use single I-joist for loads up to 3,300 lbs. double I-joists for loads up to 6,600 lbs. (if less than required). Attach I-joist to top plate using 2-1/2" nails at 6' o.c.

1c Load bearing wall above shall align vertically with the bearing below. Other conditions, such as offset bearing walls, are not covered by this detail.

1d Backer block (use 2 hanger block exceeds 360 lbs). Before installing a backer block to a double I-joist, drive three additional 3" nails through the webs and filler block where the backer block will fit. Clinch, install backer right to top flange. Use twelve 3" nails, clinched when possible. Maximum factored resistance for hanger for this detail = 1,620 lbs.

1e Top- or face-mount hanger installed per manufacturer's recommendations. For nailing schedule for multiple beams, see the manufacturer's recommendations. Notes: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1f 2x plate flush with inside face of wall or beam. 1/8" overhang allowed past inside face of wall or beam.

1g Multiple I-joist hanger with full depth filler block shown. Nordic Lumber or SCL hangers may also be used. Verify double I-joist capacity to support concentrated loads.

1h Do not bore-cut joist beyond inside face of wall.

1i Backer block required (backer block for face-mount hanger). Notes: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1j Top- or face-mount hanger installed per manufacturer's recommendations. Notes: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1k 2x plate flush with inside face of wall or beam. 1/8" overhang allowed past inside face of wall or beam.

1l Multiple I-joist hanger with full depth filler block shown. Nordic Lumber or SCL hangers may also be used. Verify double I-joist capacity to support concentrated loads.

1m Do not bore-cut joist beyond inside face of wall.

1n Backer block required (backer block for face-mount hanger). Notes: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1o Top- or face-mount hanger installed per manufacturer's recommendations. Notes: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1p Filler block. Notes: 1. Support back of I-joist web during nailing to prevent damage to web/flange connection. 2. Leave a 1/8 to 1/4-inch gap between top of filler block and bottom of top I-joist flange. 3. Filler block is required between joists for full length of span. 4. Nail joists together with two rows of 3" nails at 12 inches o.c. (clinched when possible) on each side of the double I-joist. Total of four nails per foot required. If nails can be clinched, only two nails per foot are required. 5. The maximum factored load that may be applied to one side of the double joist using this detail is 860 lb/ft. Verify double I-joist capacity.

1q Filler block requirements for double I-joist construction.

Flange Size	Joist Depth	Filler Block Size
2-1/2" x 2-1/2"	11-7/8"	2-1/8" x 6"
2-1/2" x 3-1/2"	14"	2-1/8" x 6"
3-1/2" x 2-1/2"	11-7/8"	3" x 6"
3-1/2" x 3-1/2"	14"	3" x 6"
3-1/2" x 4-1/2"	17-7/8"	3" x 9"
4-1/2" x 3-1/2"	14"	3" x 9"

1r Lumber 2x4 min., installed block to face of adjacent web. Two 2-1/2" spiral nails from each web to lumber plate, alternate on opposite side.

1s One 2-1/2" nails at top and bottom flange. Two 2-1/2" nails from each web to lumber plate. Two 2-1/2" nails from each web to lumber plate. One 2-1/2" nails are side only. 2-1/2" nails at 6' o.c.

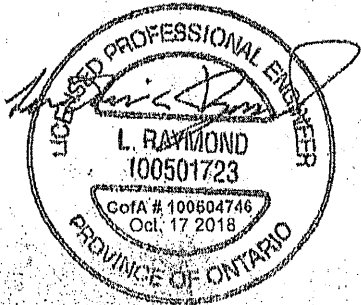
The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

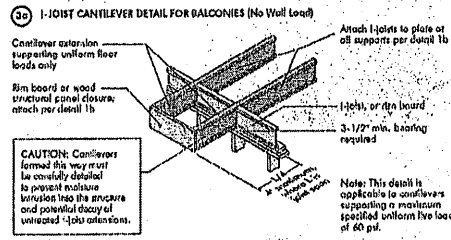
Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

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.

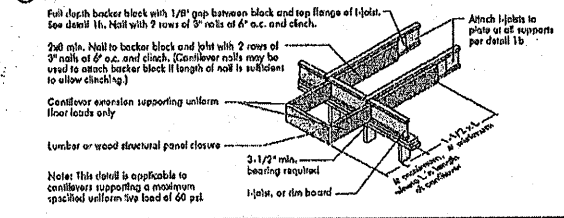
Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



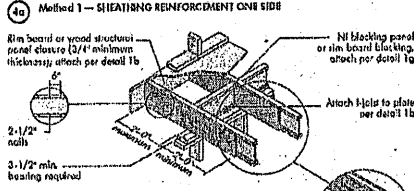
CANTILEVER DETAILS FOR BALCONIES (NO WALL LOAD)



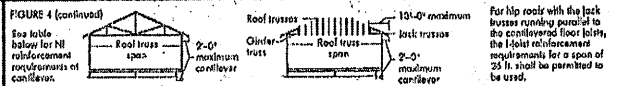
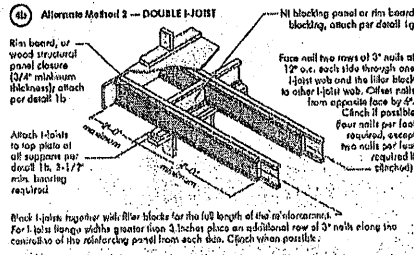
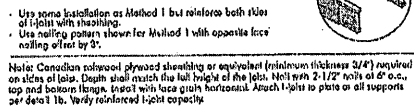
3b) LUMBER CANTILEVER DETAIL FOR BALCONIES (No Wall Load)



CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)



Method 2 - SHEATHING REINFORCEMENT TWO SIDES



CANTILEVER REINFORCEMENT METHODS ALLOWED

		Method 1a				Method 1b				Method 2a				Method 2b				Method 3a				Method 3b			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
9-1/2	24	N	N	N	1	2	N	1	2	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
	26	N	N	1	1	X	N	1	2	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
	30	N	1	1	1	X	N	2	2	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
	32	N	1	1	1	X	N	2	2	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
	34	N	1	1	2	X	N	2	X	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
11-1/2	24	N	1	2	X	N	1	2	X	X	X	N	2	X	X	X	X	X	X	X	X	X	X	X	X
	26	N	N	N	1	1	N	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	30	1	N	N	1	1	N	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	32	1	N	1	N	1	2	2	2	1	1	X	X	1	1	X	X	1	1	2	2	X	X	X	X
	34	2	N	1	2	X	1	2	2	1	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2
14	24	N	N	N	N	N	N	1	1	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	26	N	N	N	N	N	N	N	N	1	1	N	1	N	N	1	N	N	1	1	N	N	1	1	1
	30	N	N	N	N	N	N	N	N	1	1	N	1	N	N	1	N	N	1	1	N	N	1	1	1
	32	N	N	N	N	N	N	N	N	1	1	N	1	N	N	1	N	N	1	1	N	N	1	1	1
	34	N	N	N	N	1	N	N	1	N	1	1	N	1	N	1	N	1	1	1	N	1	1	1	1
16	24	N	N	N	N	1	N	N	1	2	2	N	1	2	2	N	1	2	2	N	1	2	2	N	1
	26	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	30	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	32	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	34	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
18	24	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	26	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	30	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	32	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	34	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
20	24	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	26	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	30	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	32	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1
	34	N	N	N	1	1	N	1	N	1	2	N	1	2	N	1	2	N	1	2	N	1	2	N	1

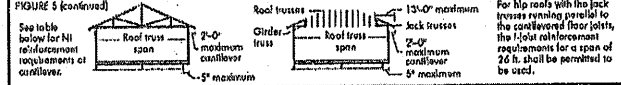
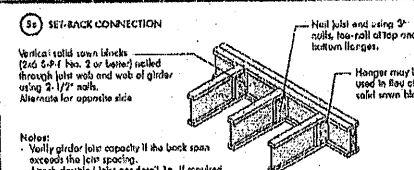
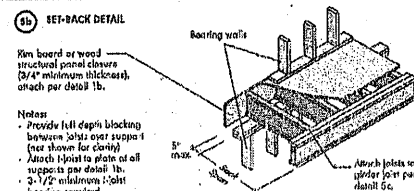
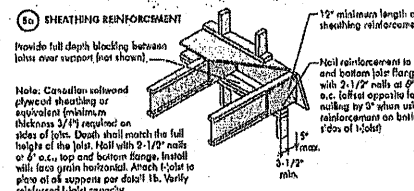
1. N = No reinforcement required.
- 2 = Reinforced with 3/4" wood structural panel on one side only.
- 3 = Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
- 4 = By a deeper joist or closer spacing.
5. Minimum design load shall be 15 psf roof dead load, 85 psf floor live load, and 80 psf wall load. Wall load is based on 2-0" maximum width windows or door openings.

For larger openings, or multiple 2-0" width openings spaced less than 6-0" o.c., additional joist reinforcement is required. See table below for reinforcement requirements of cantilever.

7. Table applies to joists 12" to 24" o.c. that meet the floor span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/180. Use 12" o.c. requirements for lesser spacing.

8. For conventional roof construction using a ridge beam, the roof truss span column shall be equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge board, the roof truss span is equivalent to the distance between the supporting walls as if a truss is used.
9. Cantilevered joist supporting ridge trusses or roof beams may require additional reinforcing.

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

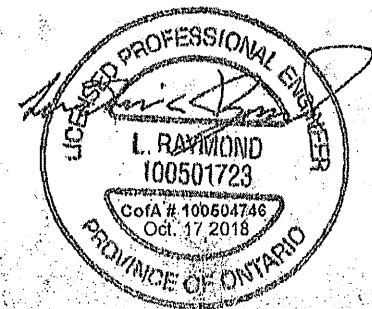


BRICK CANTILEVER REINFORCEMENT METHODS ALLOWED

Span (ft)	Method 1a				Method 1b				Method 2a				Method 2b				Method 3a				Method 3b			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
9-1/2'	26	1	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X
	30	1	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X
	32	2	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X
	34	2	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X
	36	2	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X	X	2	X	X	X
11-1/2'	26	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	30	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	32	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	34	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	36	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14'	26	N	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	X	2	X	X	X
	30	N	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	X	2	X	X	X
	32	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
	34	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
	36	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
	38	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
	40	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
	42	1	2	X	X	1	2	X	X	1	2	X	X	1	2	X	2	X	X	2	2	X	X	X
16'	26	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X
	30	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X
	32	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X
	34	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X
	36	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X
	38	1	2	X	X	1	X	X	X	1	X	X	X	1	X	X	2	X	X	2	X	X	X	X

1. N = No reinforcement required.
 2. Reinforced with 3/4" wood structural panel on one side only.
 3. Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
 4. By a deeper joist or closer spacing.
 5. Minimum design load shall be 15 psf roof dead load, 85 psf floor live load, and 80 psf wall load. Wall load is based on 2-0" maximum width windows or door openings.
 6. For larger openings, or multiple 2-0" width openings spaced less than 6-0" o.c., additional joist reinforcement is required. See table below for reinforcement requirements of cantilever.
 7. Table applies to joists 12" to 24" o.c. that meet the floor span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/180. Use 12" o.c. requirements for lesser spacing.
 8. For conventional roof construction using a ridge beam, the roof truss span column shall be equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge board, the roof truss span is equivalent to the distance between the supporting walls as if a truss is used.
 9. Cantilevered joist supporting gable trusses or roof beams may require additional reinforcing.

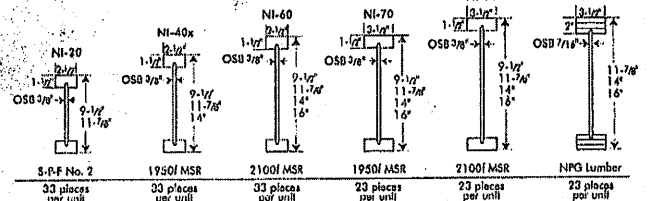
Document prepared for the use of
Stephanie Gori from Alpa, Ontario
(Nordic Request 1810-095)



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 Table 1 or 2, respectively.
2. I-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 an I-joist web shall allow the clear distance between the flanges of the I-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 flange 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 (for 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 or 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.)											
		2	3	4	5	6	6-1/4	7	8	8-5/8	9	10	10-3/4
9-1/2"	NI-20	0-7"	1-6"	2-10"	4-3"	5-8"	6-0"	...	...	...	...	...	...
	NI-40x	0-7"	1-6"	2-10"	4-3"	5-8"	6-0"	...	...	...	...	...	...
	NI-60	1-3"	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"	3-6"	5-0"	6-5"	8-2"	8-8"	...	...	...	...	...	...
11-7/8"	NI-20	0-7"	0-8"	1-0"	2-1"	3-5"	4-0"	5-0"	6-5"	7-5"	...	...	...
	NI-40x	0-7"	0-8"	1-0"	2-1"	3-5"	4-0"	5-0"	6-5"	7-5"	...	...	...
	NI-60	0-7"	1-8"	3-0"	4-3"	5-9"	6-0"	7-3"	8-10"	10-0"	...	...	...
	NI-70	1-3"	2-6"	4-0"	5-4"	6-9"	7-2"	8-4"	10-0"	11-2"	...	...	...
	NI-80	1-6"	2-10"	4-2"	5-6"	7-0"	7-5"	8-8"	10-3"	11-4"	...	...	...
14"	NI-20	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-8"	8-3"	10-2"
	NI-40x	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-8"	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"	6-12"	7-3"	8-9"	9-7"	10-4"	12-0"	13-5"
	NI-80	0-10"	2-0"	3-4"	4-9"	6-12"	6-15"	7-6"	9-0"	10-0"	10-8"	12-4"	13-9"
16"	NI-20	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-8"	8-3"	10-2"
	NI-40x	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-8"	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"	6-12"	7-3"	8-9"	9-7"	10-4"	12-0"	13-5"
	NI-80	0-10"	2-0"	3-4"	4-9"	6-12"	6-15"	7-6"	9-0"	10-0"	10-8"	12-4"	13-9"

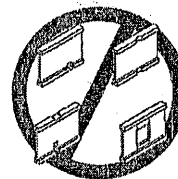
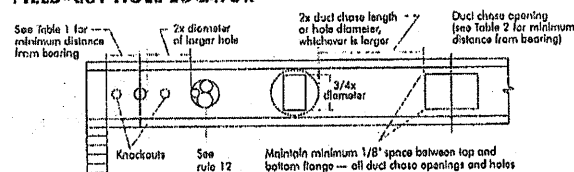
1. Above table may be used for I-joist spacing of 24 inches on centre, or less.
2. Hole location distance is measured from inside face of support to centre of hole.
3. Distances in this chart are based on uniformly loaded joists.
4. The above table is based on the I-joists being used at their maximum 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.)											
		8	10	12	14	16	18	20	22	24			
9-1/2"	NI-20	4-1"	4-5"	4-10"	5-4"	6-8"	6-11"	6-6"	7-1"	7-5"			
	NI-40x	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-6"			
	NI-60	5-4"	5-9"	6-2"	6-7"	7-1"	7-5"	8-0"	8-3"	8-8"			
	NI-70	6-1"	6-5"	6-10"	6-5"	6-10"	7-1"	7-6"	8-1"	8-6"			
	NI-80	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-6"			
11-7/8"	NI-20	5-9"	6-2"	6-6"	7-1"	7-5"	7-9"	8-3"	8-9"	9-4"			
	NI-40x	6-8"	7-2"	7-6"	8-1"	8-5"	9-1"	9-6"	10-1"	10-9"			
	NI-60	7-2"	7-8"	8-0"	8-6"	9-0"	9-9"	10-3"	10-8"	11-0"			
	NI-70	7-1"	7-4"	7-9"	8-3"	8-7"	9-1"	9-6"	10-1"	10-4"			
	NI-80	7-2"	7-7"	8-0"	8-5"	8-10"	9-3"	9-8"	10-2"	10-8"			
14"	NI-20	7-7"	8-1"	8-5"	8-10"	9-4"	9-8"	10-2"	10-8"	11-2"			
	NI-40x	8-1"	8-7"	9-0"	9-6"	10-1"	10-7"	11-2"	12-0"	12-8"			
	NI-60	8-9"	9-3"	9-8"	10-1"	10-6"	10-8"	11-1"	11-6"	12-0"			
	NI-70	8-7"	9-1"	9-5"	10-0"	10-4"	10-8"	11-2"	11-7"	12-3"			
	NI-80	9-0"	9-3"	9-9"	10-1"	10-7"	11-1"	11-6"	12-1"	12-6"			
16"	NI-20	9-4"	9-9"	10-3"	10-7"	11-1"	11-6"	12-1"	12-7"	13-2"			
	NI-40x	10-3"	10-8"	11-2"	11-6"	12-1"	12-6"	13-2"	14-1"	14-10"			
	NI-60	10-1"	10-5"	11-0"	11-4"	11-10"	12-3"	12-8"	13-1"	13-8"			
	NI-70	10-4"	10-9"	11-3"	11-8"	12-1"	12-7"	13-1"	13-8"	14-0"			
	NI-80	11-1"	11-5"	11-10"	12-4"	12-10"	13-2"	13-9"	14-4"	15-2"			

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-joists 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 I-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 cut between the holes is another good method to minimize damage to the I-joist.

SAFETY AND CONSTRUCTION PRECAUTIONS



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



Never stack building materials over unfastened I-joists. Once sheathed, do not over-stress I-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. 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.
3. Temporary bracing or strut must be 1x4 inch minimum, at least 6 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 bay. Top ends of adjoining bracing over at least two I-joists.
4. 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.
5. For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bracing.
6. 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.
7. 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 Chibougoum guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defects in material and workmanship.

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

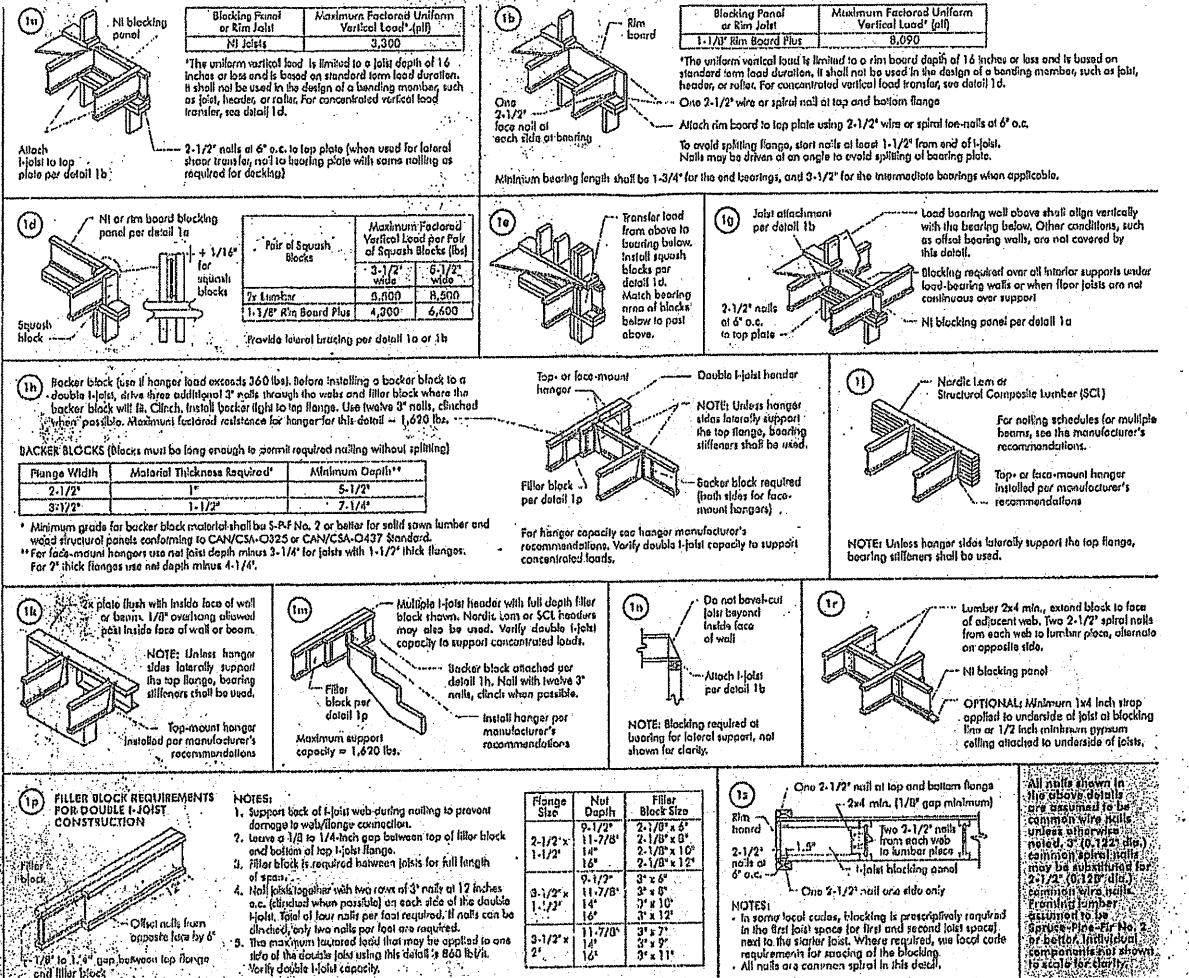
The construction details for residential designs are prone to changes.

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.

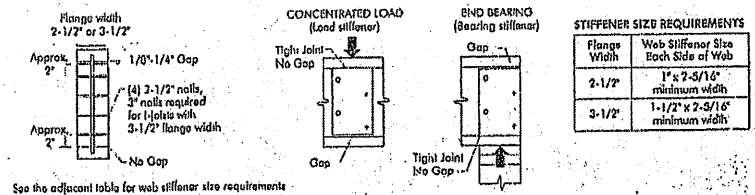
Document prepared for the use of Stephanie Gon from Alpa, Ontario. (Nordic Request 1810-095)



WEB STIFFENERS

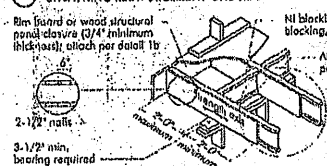
RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with factored reactions greater than shown in the load properties table found in the Joist Construction Guide (C101). The gap between the stiffener and the flange is at the top.
- A bearing stiffener is required when the I-joist is supported in a hanger and the sides of the hanger do not extend up to, and support, the top flange. The gap between the stiffener and flange is at the top.
- A load stiffener is required at locations where a factored concentrated load greater than 2,700 lbs is applied to the top flange between supports. Verify use of a stiffener, anywhere between the cantilever lip and the support. These values are for standard term load duration, and may be required for other load durations as permitted by the code. The gap between the stiffener and the flange is at the bottom.

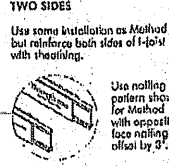
FIGURE 2
WEB STIFFENER INSTALLATION DETAILS

CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET

Method 1 — SHEATHING REINFORCEMENT ONE SIDE



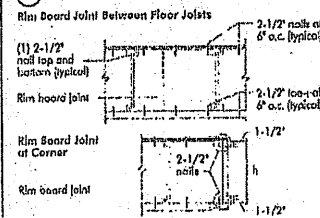
Method 2 — SHEATHING REINFORCEMENT TWO SIDES



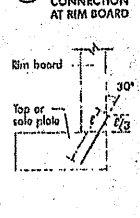
NOTE: Connection selfwood plywood sheathing or equivalent (minimum thickness 3/4") required on sides of joist. Depth shall match the full height of the joist. Nail with 2-1/2" nails at 6" o.c. top and bottom flange. Install with face grain horizontal. Attach I-joist to plate at all supports per detail 1b. Verify reinforced I-joist capacity.

RIM BOARD INSTALLATION DETAILS

a) ATTACHMENT DETAILS WHERE RIM BOARDS ABUT



b) TOE-NAIL CONNECTION AT RIM BOARD



The construction details for residential designs are prone to changes.

Details released after September 2013 supersedes N-303

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

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