

Hanger Name	Symbol	QTY
LUS24	_	6
LJS26DS		1
HGUS26-2		2



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			



CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE HAN 24 SF# @ 24 °C/C WITH A 24 V ERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE LATERALLY BRACED SO THAT UNBRACE LENGTH DOES NOT EXCEED 6. DESIGN OF CONVENTIONAL FRAMING 15 THE RESPONSIBILITY OF THE PROJECT BIGIDIEST.

JOB INFORMATION								
Customer	GREENPARK HOMES							
Job #	20-00421R0							
Address	TRINAR HALL EAST GWILLIMBURY,ON							
Model	BRENTWOOD 3 EL 2							
Sales Rep	RALPH MIRIGELLO							
Designer	KR							
Date	12/18/2020							
Path	C:\MITEK\CA\JOBS\GREENPARKHOMES\TRINAR							

DESIGN INFORMATION

Code	NBCC 2010
Bldg	Residential - HSB (NBCC Part 9)
TC LL	34.8 lb/ft ²
TC DL	8.0 lb/ft ²
BC LL	10.5 lb/ft²
BC DL	7.3 lb/ft²
Deflection	LL=L/360 TL=L/360
Spacing	24" O/C unless otherwise noted
Complies With	OBC 2012 (2019 Amendment) CSA 086-14 and TPIC 2014

IMPORTANT INFORMATION

Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes

For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines

Read all notes on this page in addition to those shown on the KOTT Truss Engineering package

Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering

Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span >40 ft. See hanger legend for type.

Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span <40 ft use 3-1/4" nails @ each bearing; trusses with a clear span >40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc. 14 Anderson Blvd. Uxbridge, ON 905.642.4400





NE1220-142 GREENPARK - TRINAR HALL -BRENTWOOD 3 EL 2

ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION. SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled Information for Truss Installers and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss. **KOTT**

JOB DESC.

ENSUITE 3 SIDE



LUMBER N. L. G. A. RULES N. L. G. A. CHORDS A - D D - G G - J S - B K - I S - O O - K DESCR. SPF SPF SPF SPF SPF 2100F 1.8E 2100F 1.8E 2100F 1.8E DRY 2x4 2x4 2x4 2x6 2x6 SPF SPF No.2 ALL WEBS 2x3 EXCEPT DRY No.2 SPF

TRUSS NAME

JOB NAME

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS#ROWS SURFACE LOAD(PLF) SPACING (IN) TOP CHORDS: (0.122"X3") SPIRAL NAILS TOP CHORDS: (0.122"X3") SPIRAL NAILS
A-D 1 12
D-G 1 12
G-J 1 12
S-B 2 12
K-I 2 12
BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS SIDE(0.0) SIDE(0.0) TOP TOP S- 0 O- K 12 12 TOP SIDE(22.0) WEBS: (0.122"X3") SPIRAL NAILS

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING, REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PROFESSIONAL CHARLES Dec 20, 2020

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

Γ.	DIME	ENSIONS	. SUPPORT	S AND LO	OADING	S SPECI	FIED BY	FABRICATOR TO	BE VERIFIED BY BUI	LDING DESIGNER	₹
l.	BEA	RINGS									Į
Ι.		FACT	ORED	MAXIMU	IM FACT	ORED	INPUT	REQRD			ľ
		GROSS	REACTION	GROSS	REACTION	ON	BRG	BRG			1
	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			1
	S	3066	0	3066	0	0	5-8	1-11			ı
	K	5310	0	5310	n	n	5-8	3-2			ı

UNFACTORED REACTIONS

QUANTITY

REACTIONS
I.LIVE WIND DEAD SOIL
/0 0/0 560/0 0/0
/0 0/0 991/0 0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K

BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.53 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING TOTAL LOAD CASES: (4)

MAX. FACTORED MEMB. FORCE FACTORED MAX. FACTORED VERT. LOAD LC1 MAX MAX. M (PLF) CSI (LC) UNBRAC FROM TO LENGTHE MEMB. FORCE MAX CSI (LC) (LBS) (LBS) FR-TO LENGTHFR-TO FROM TO 124.4 0.08 (1) -124.4 -124.4 0.05 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.18 (1) -124.4 -124.4 0.18 (1) -124.4 -124.4 0.19 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.11 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -124.4 -124.4 0.07 (1) -1 HFR-TO
R-C -830 / 0
C-Q 0/31
Q-D 0/12
D-P 0/21
P-E -861 / 0
P-F -959 / 0
N-F 0/17
N-G 0/16
M-G 0/25
M-H -1639 / 0
L-H 0/11 10.00 6.13 5.92 5.30 5.30 5.00 A-B B-C 0 / 47 -830 / 0 0 / 315 0 / 127 0 / 2158 -861 / 0 -959 / 0 0.04 (1) 0.02 (3) 0.27 (1) 0.14 (1) 0.44 (1) -3204 / 0 C-D D-E E-F F-G -3516 / 0 -4431 / 0 G- H H- I -6178 / 0 -6381 / 0 4.71 4.53 0 / 172 0 / 169 0.02 (3) 0.02 (1) I- J 0 / 47 -124.4 -124.4 0.06 (1) 10.00 0 / 2597 0.32(1) 0.0 0.11 (1) 0.0 0.18 (1) S-B K-I -2979 / 0 0.0 7.81 0.29 (1) 6.48 -5046 / 0 0 / 1155 -39.2 -39.2 0.04 (1) -39.2 -39.2 0.21 (1) -39.2 -39.2 0.23 (1) -39.2 -39.2 0.37 (1) -39.2 -39.2 0.37 (1) -39.2 -39.2 0.43 (1) -74.0 -74.0 0.40 (1) 10.00 10.00 10.00 10.00 10.00 0/0 S- R R- Q Q- P P- O O- N N- M M- L L- K 0 / 4984 10.00

FACTORED CONCENTRATED LOADS (LBS)									
JΤ	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	21-0-0	-560	-560		FRONT	VERT	TOTAL		C1
L	21-10-0	-665	-745		FRONT	VERT	DEAD		C1
L	21-10-0	-366	-549		FRONT	VERT	LIVE		C1
L	21-10-0	-1818	-1818		FRONT	VERT	SNOW		C1

CONNECTION REQUIREMENTS

0/5323

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

TOTAL WEIGHT = 2 X 139 = 277

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

GIRDER TYPE: CPrimeHip GIRDER TYPE: CPrimeHip
SIDE SETBACK = 6-0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
APPULED TO FRONT SIDE
ADDIT LADES BASED ON 55-8 OF GS. - ADDT'L LOADS BASED ON 55 % OF GSL. LOADS APPLIED TO FIRST 6-2-0 OF SPAN MEASURED FROM THE RIGHT.

** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT)

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.90") ALLOWABLE DEPL.(LL)= L7300 (0.30)
CALCULATED VERT. DEFL.(LL) = L7 999 (0.08")
ALLOWABLE DEFL.(TL)= L7380 (0.90")
CALCULATED VERT. DEFL.(TL) - L7 999 (0.13")

CSI: TC=0.27/1.00 (H-I:1) , BC=0.49/1.00 (L-M:1) , WB=0.67/1.00 (I-L:1) , SSI=0.28/1.00 (L-M:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

| NAIL VALUES | PLATE | GRIP(DRY) | SHEAR | SECTION | (PSI) | (PLI) |



NE1220-142	G01	1	2	TRUSS DESC.	BRENTWOOD 3 EL 2	Page 3 of 38
552 TU UII E	THOSE IS AME	407			DDENTINGOD OF G	
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - TRINAR HALL -	DRWG NO.

ID:qKy8nLSCtBps7zaDJTm7k2zFzGC-bo?GWIrV4mNEfOMDtcMnCOG7rmkRZgl8y7Cu2ly7

PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (L) (INPUT = 0.90) JSI METAL= 0.80 (L) (INPUT = 1.00)



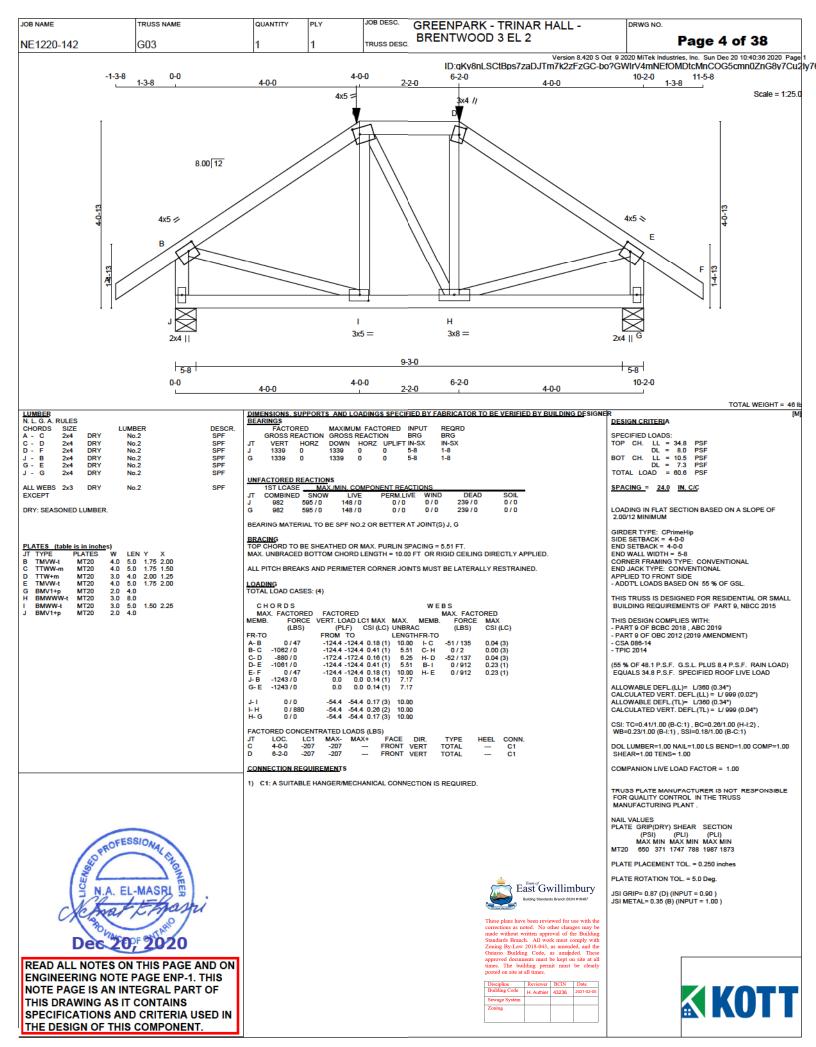
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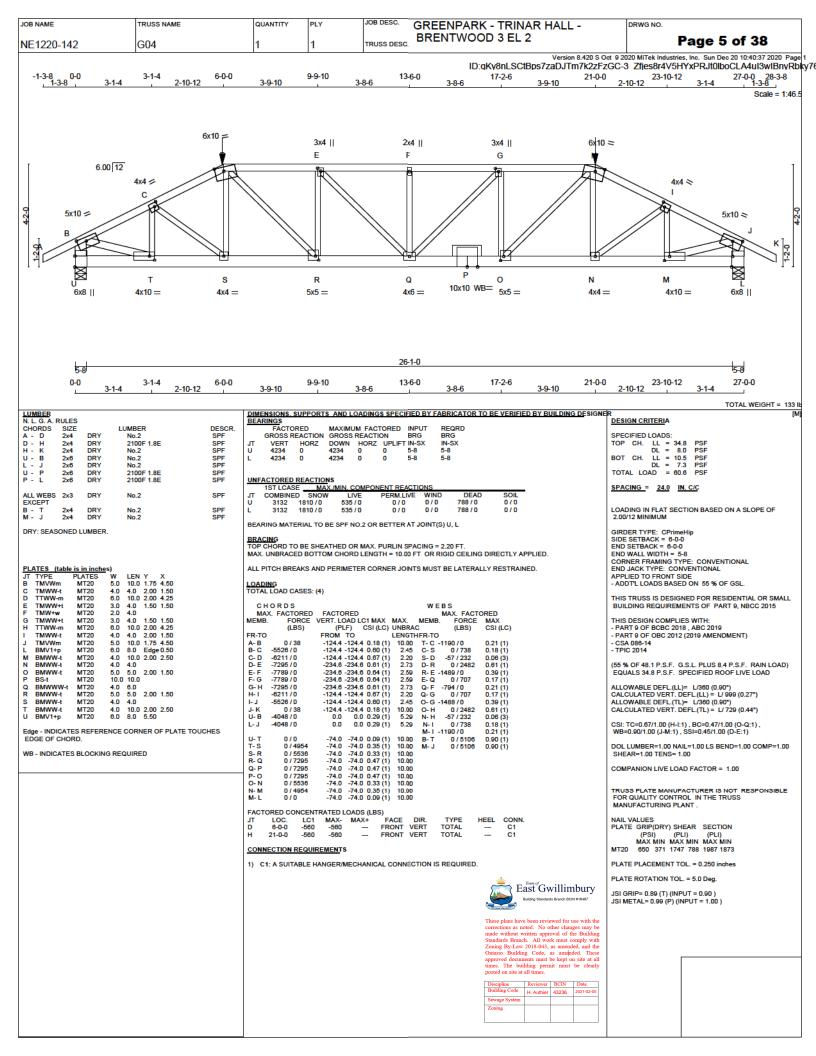
Discipline	Reviewer	BCIN	Date
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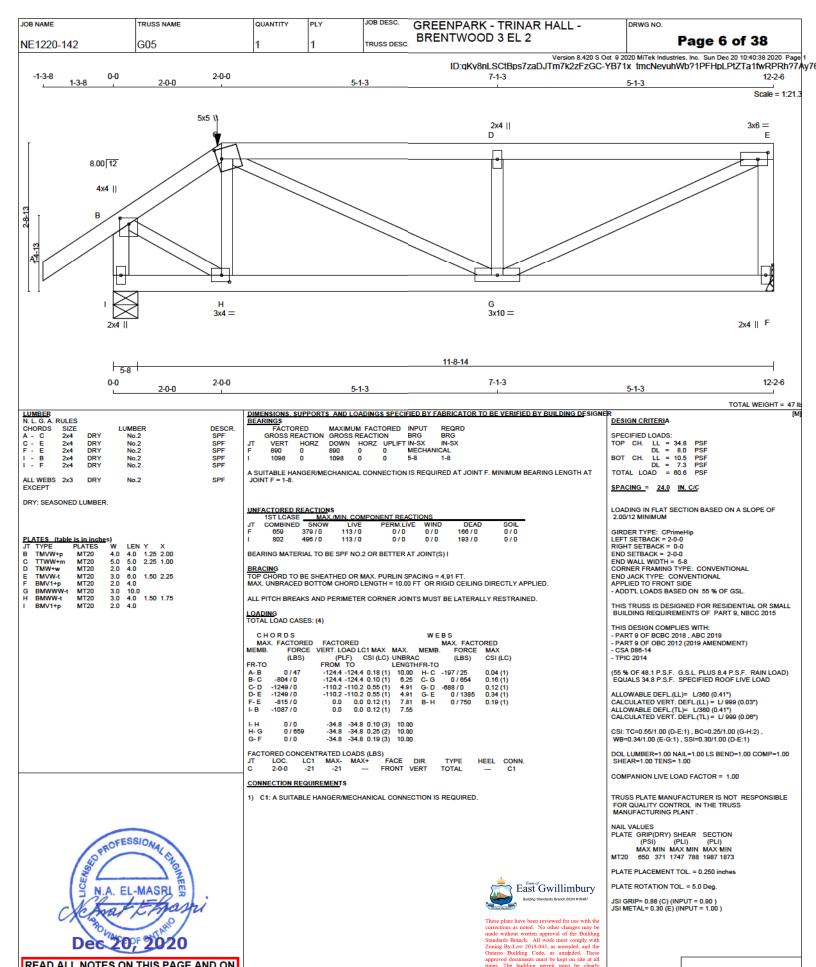
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 $\operatorname{\sf Edge}$ - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.





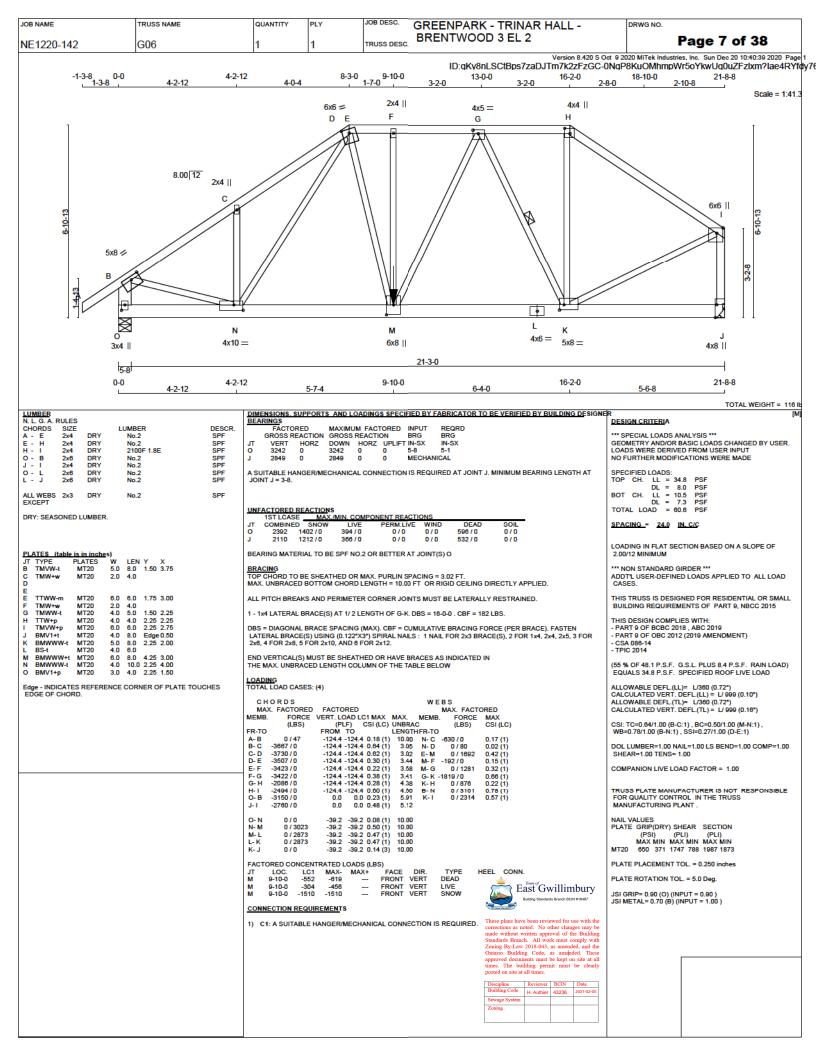




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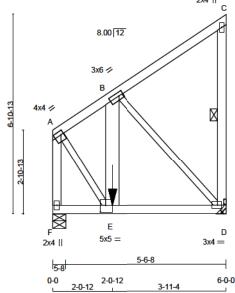




JOB NAME TRUSS NAME QUANTITY JOB DESC. GREENPARK - TRINAR HALL -**BRENTWOOD 3 EL 2** Page 8 of 38 NE1220-142 G07 TRUSS DESC

Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:39 2020 Page ID:qKy8nLSCtBps7zaDJTm7k2zFzGC-0NqP8KuOMhmpWr5oYkwUq0uqNzhFm5Cae4RYfdy76

0-0 2-0-12 6-0-0 2-0-12 Scale = 1:39.8 2x4 ||



TOTAL WEIGHT = 2 X 39 = 77

RULES			
SIZE		LUMBER	DESCR.
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x3	DRY	No.2	SPF
2x6	DRY	No.2	SPF
	2x4 2x4 2x4 2x4 2x4	SIZE 2x4 DRY 2x4 DRY 2x4 DRY 2x4 DRY 2x3 DRY	SIZE LUMBER 2x4 DRY No.2 2x3 DRY No.2

DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS#ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS: (0.122"X3") SPIRAL NAILS F- A A- C 12 TOP C-D TOP BOTTOM CHORDS: (0.122"X3") SPIRAL NAILS SIDE(241.0)

WEBS: (0.122"X3") SPIRAL NAILS 2x3 1 6 2x6 2 6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

JT	TYPE	PLATES	w	LEN	Y	X	
Α	TMVW-t	MT20	4.0	4.0	1.50	1.00	
В	TMWW-t	MT20	3.0	6.0	1.50	1.75	
C	TM\/+n	MT20	2.0	4.0			



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DIM	ENSIONS, S	UPPORTS	S AND LO	DADINGS	SPECI	FIED BY F	ABRICATOR	TO BE VERIFIED	BY BUILDING DESIGNE	R
BEA	RINGS									I
	FACTOR	RED	MAXIMU	M FACT	ORED	INPUT	REQRD			ľ
	GROSS RE	ACTION	GROSS I	REACTIO	N	BRG	BRG			3
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			(
F	1991	0	1991	0	0	5-8	1-8			ı
D	2366	0	2366	0	0	MECHANI	CAL			1

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

UNFACTORED REACTIONS

	1ST LCASI	EMAX./	MIN, COMP	ONENT REACTION	ONS		
JT	COMBINE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1475	848 / 0	255 / 0	0/0	0/0	372 / 0	0/0
D	1752	1007 / 0	304 / 0	0/0	0/0	442/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF C-D, DBS = 20-0-0, CBF = 26 LBS.

DBS = DIAGONAL BRACE SPACING (MAX), CBF = CUMULATIVE BRACING FORCE (PER BRACE), FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING TOTAL LOAD CASES: (4)

C	HORDS							W E	BS		
MA	AX. FACTO	RED	FACTO	RED					MAX. FACT	TORED	
MEME	 FOF 	RCE 1	VERT. LO	DAD LO	1 MA)	(MA)	<. M	EMB	. FORCE	MAX	
	(LBS	S)	(Pl	LF) (CSI (L(C) UNE	BRAC		(LBS)	CSI (LC)
FR-TO)		FROM	TO		LEN	GTHF	R-TO			
F-A	-2219/0		0.0	0.0	0.18 ((1) 7	.49 A	۱- E	0 / 1810	0.22	(1)
A-B	-1316/0		-124.4	-124.4	0.12	1) 6	.25 E	- B	0 / 1399	0.09	(1)
B- C	-22 / 0		-124.4	-124.4	0.13 ((1) 6	.25 E	3- D	-1602 / 0	0.40	(1)
D- C	-205 / 0		0.0	0.0	0.02	1) 6	.25				. ,
F-E	0/0		-137.3	-137.3	0.57 ((1) 10	.00				
E- D	0 / 11	130	-619.3	-619.3	0.74	1) 10	.00				
FACT	ORED CON	ICENT	RATED	LOADS	(LBS)						
	LOC.		MAX-			FACE			TYPE	HEEL	CONN.
E	2-0-12	-208	-232	-	E	BACK	VER:	Т	DEAD		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 4-10-4 END DISTANCE = 6-0-0 END SPAN CARRIED = 4-10-4 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. -ADDT'L LOADS BASED ON 55 % OF GSL. (DEFINED BY USER)

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/380 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/380 (0.20")
CALCULATED VERT. DEFL.(TL)= L/598 (0.12")

CSI: TC=0.18/1.00 (A-F:1), BC=0.74/1.00 (D-E:1), WB=0.40/1.00 (B-D:1), SSI=0.61/1.00 (D-E:1)

DOL LUMBER-1.00 NAIL-1.00 L3 BEND-1.00 COMP-1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - TRINAR HALL -	DRWG NO.
NE1220-142	G07	1	2	TRUSS DESC.	BRENTWOOD 3 EL 2	Page 9 of 38
	<u> </u>	·			Version 8.420 S O	ct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:40 2020 Page UZEnMgu07?ug8?g_6SRjMEQr7N1TVYSktkA5B8
					ib.qryoncooparzabo iiiirkzzi zoo-	OZETINIGUOT: ugo: g_osiqiniEqititi i Takuvobb
PLATES (table is in inches) JT TYPE PLATES W D BMVW1-t MT20 3.0	4.0 1.50 1.75					JSI GRIP= 0.85 (B) (INPUT = 0.90) JSI METAL= 0.32 (A) (INPUT = 1.00)
E BMWW-t MT20 5.0 F BMV1+p MT20 2.0	5.0 2.75 2.25					

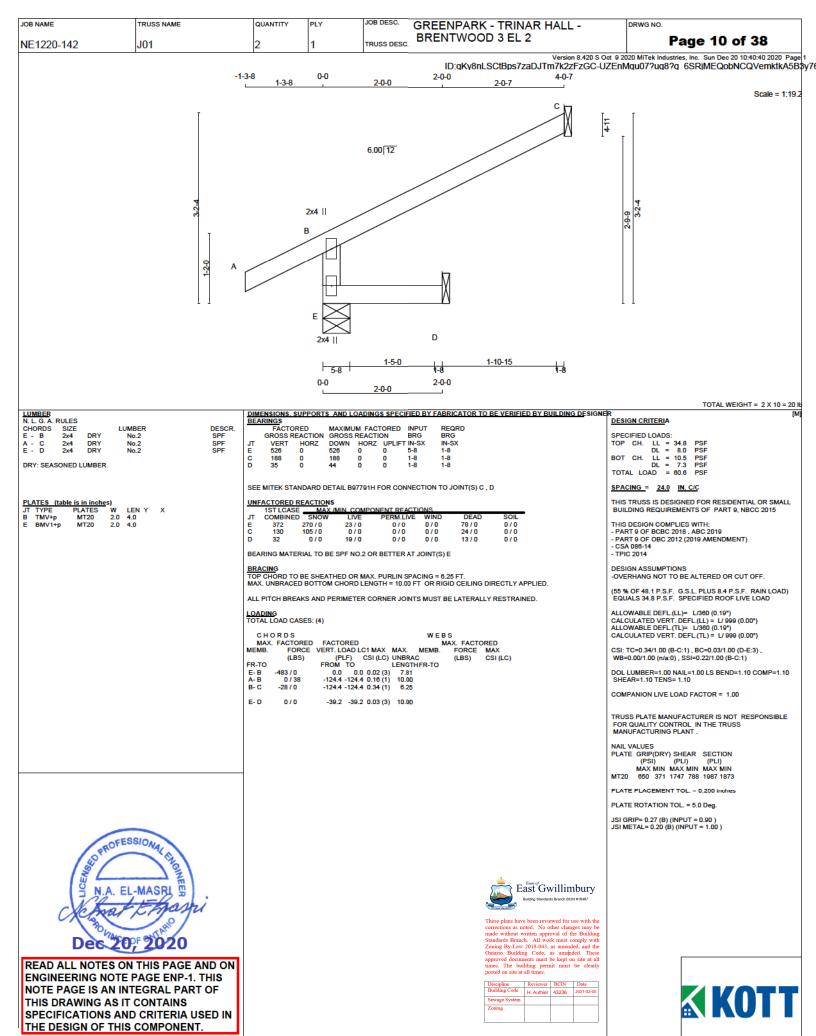


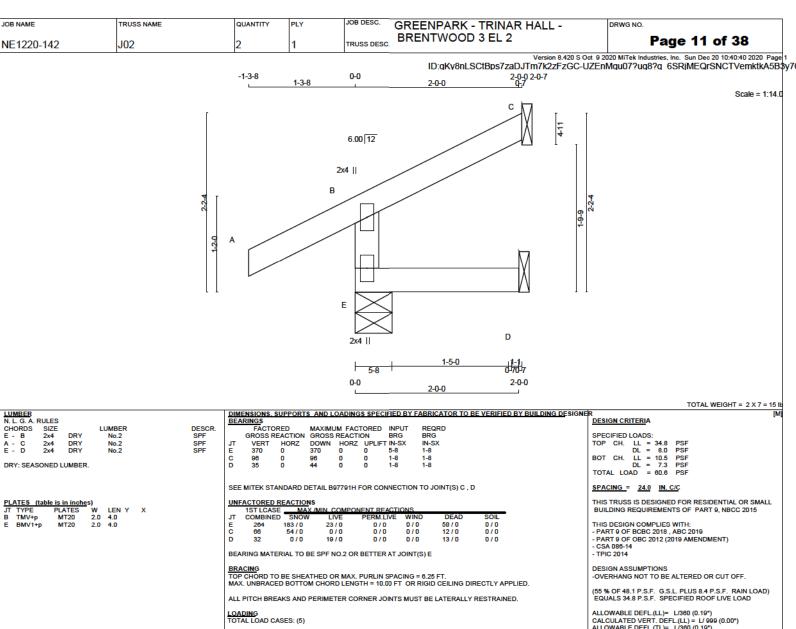
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Fanach. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amedied. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.







CHORDS WEBS MAX. FACTORED FACTORED MAX. FACTORED ACTORED FACTORED FACTORED FACTORED (LEST LOAD LC1 MAX MAX. MEMB. (LBS) (PLF) CSI (LC1 UNBRAC FROM TO LENGTHER-TO 0.0 0.0 0.02 (3) 7.81 (0.38 -1.24.4 -1.24.4 0.16 (1) 10.00 (4/0 -1.24.4 -1.24.4 0.16 (1) 10.00 MEMB. FR-TO -327 / 0 0 / 38 -14 / 0 E-B A-B B-C -39.2 -39.2 0.03 (3) 10.00 E-D

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PROFESSIONAL CHARLES Dec 20, 2020

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

ALLOWABLE DEFL.(LL)= L/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.16/1.00 (A-B:1) , BC=0.03/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.12/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

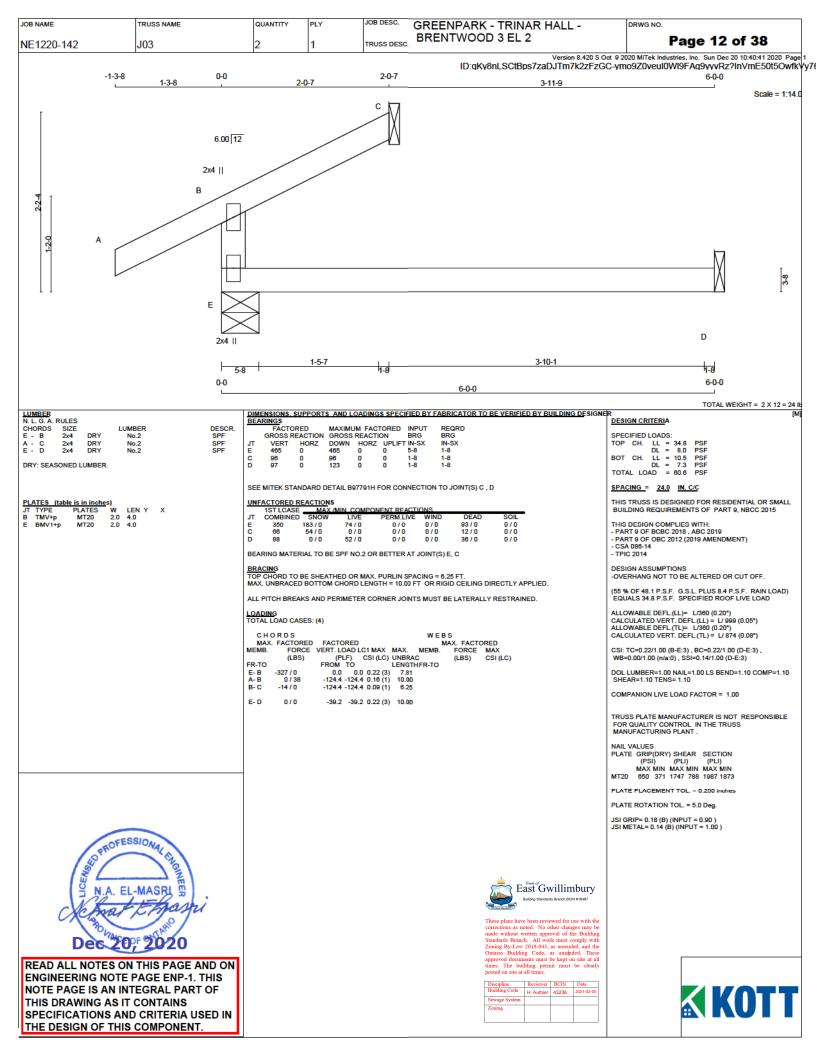
PLATE PLACEMENT TOL. - 0.250 inches

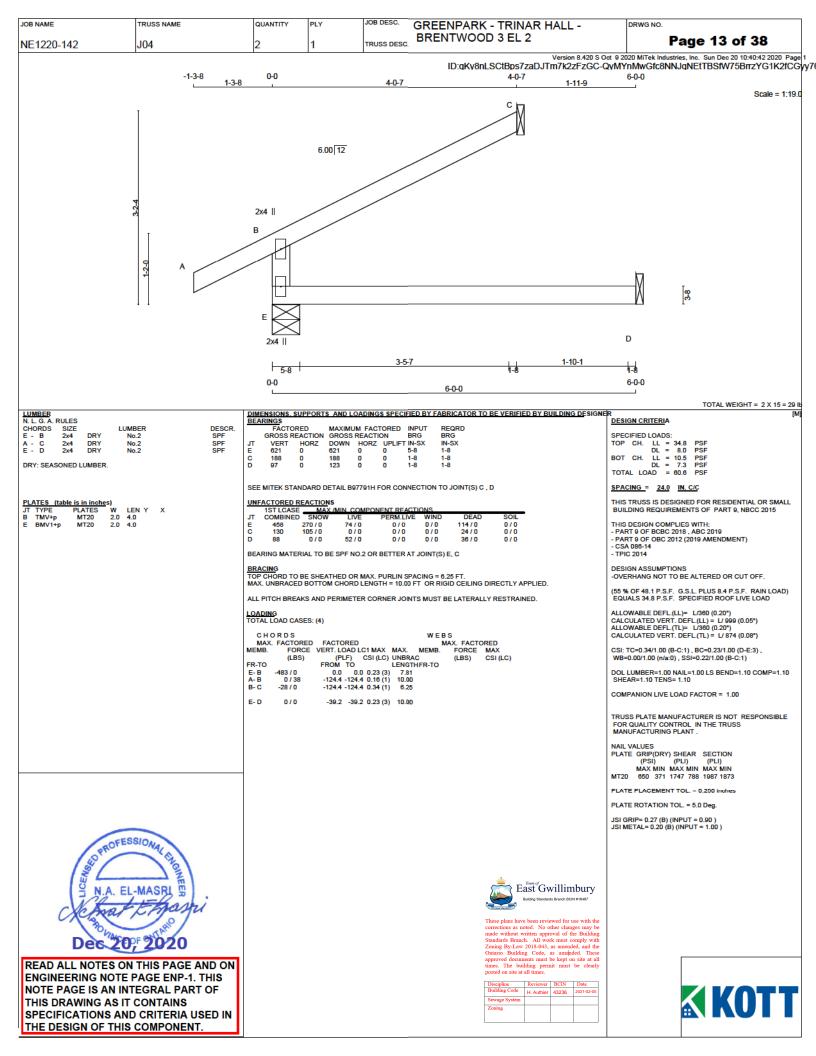
PLATE ROTATION TOL. = 5.0 Deg

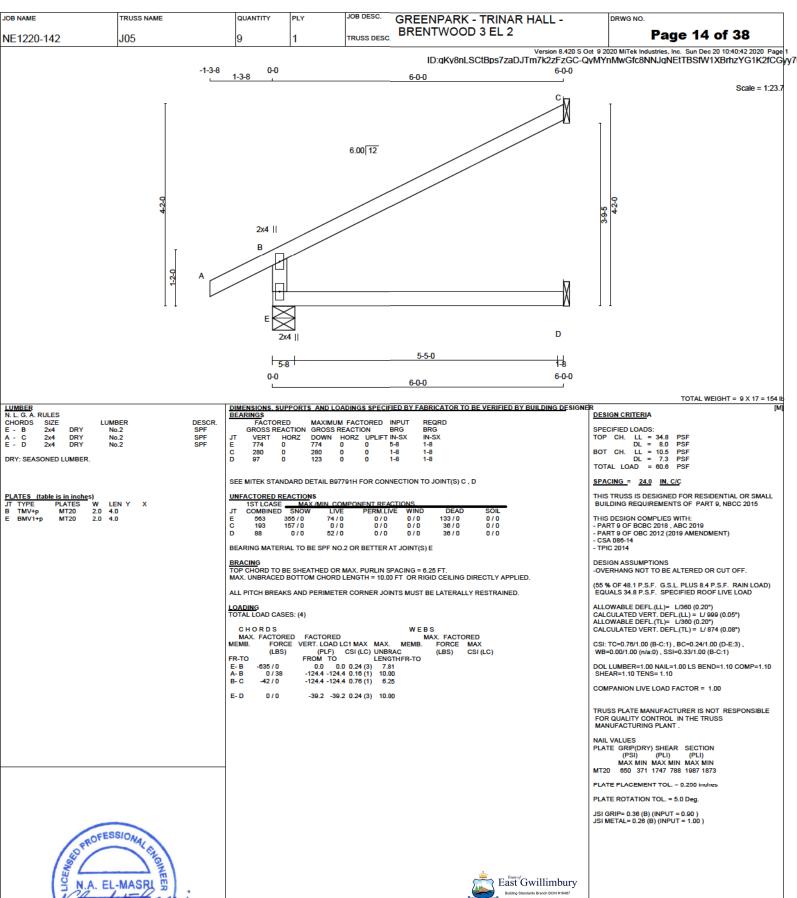
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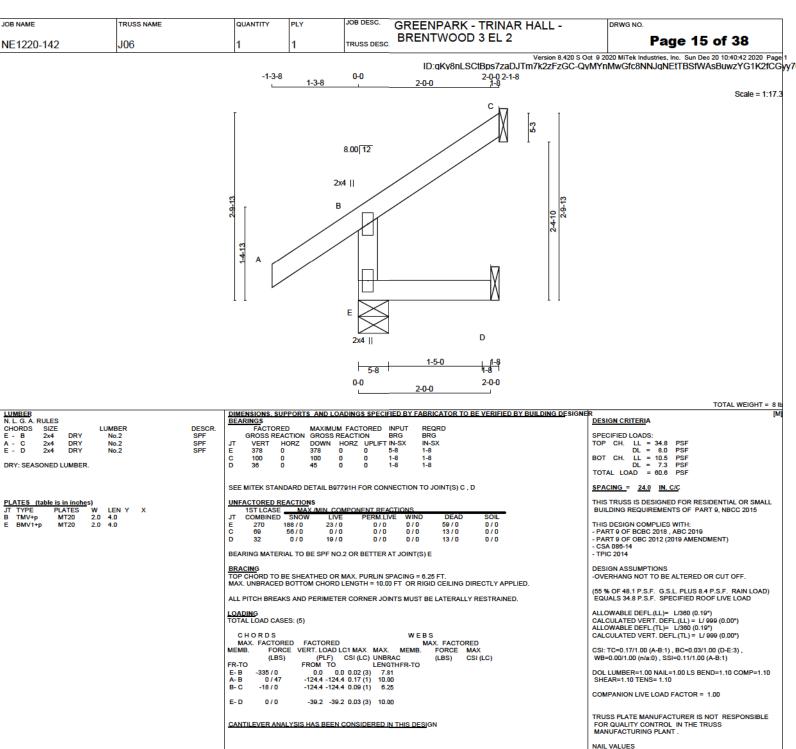
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			







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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

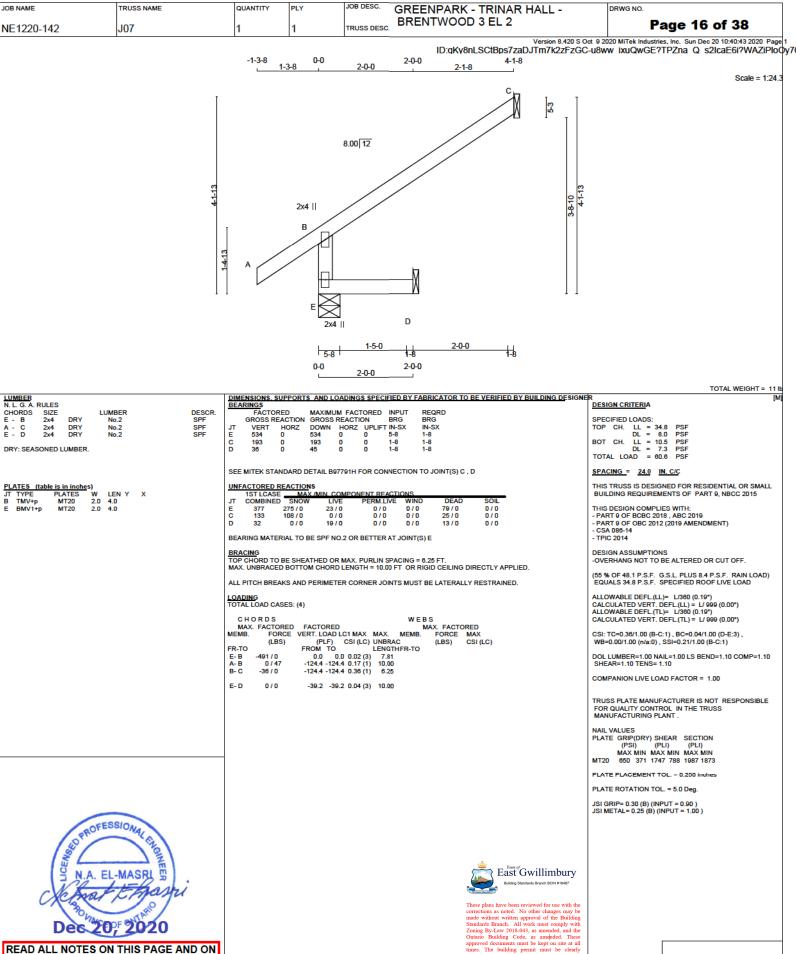
PLATE PLACEMENT TOL. - 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90) JSI METAL= 0.17 (B) (INPUT = 1.00)



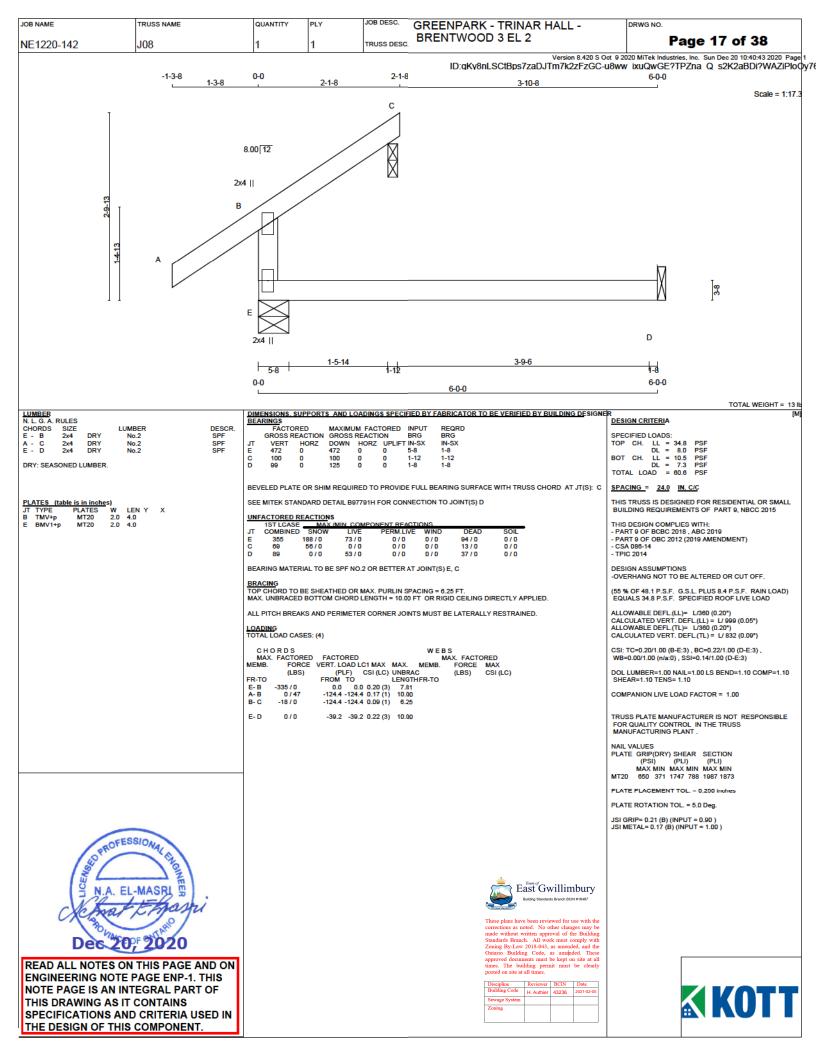


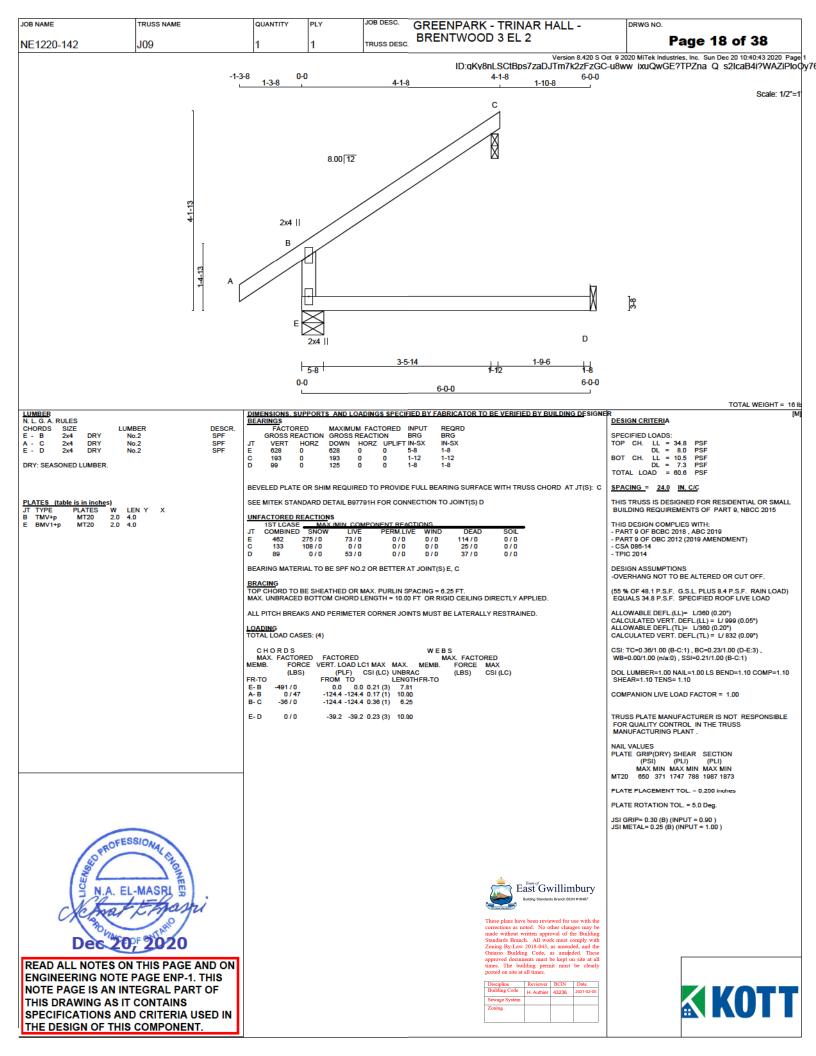


ENGINEERING NOTE PAGE ENP-1. THIS

NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.







JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL -**BRENTWOOD 3 EL 2** Page 19 of 38 NE1220-142 J10 TRUSS DESC. Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:43 2020 Page ID:qKy8nLSCtBps7zaDJTm7k2zFzGC-u8ww ixuQwGE?TPZna Q s2LcaE9i?WAZiPloQy70 -1-3-8 0-0 2-0-0 1-3-8 2-0-0 Scale = 1:16.9 С 8.00 12 В 2-3-10 D

LUMBER N. L. G. A. RULES CHORDS E - B A - C E - D SIZE 2x4 LUMBER DESCR SPF DRY

 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES
 W

 B
 TMV+p
 MT20
 2.0

 E
 BMV1+p
 MT20
 2.0

DIMENSIONS, SUPPORTS, AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED INPUT GROSS REACTION BRG REORD | MAXIMUM FACTORED | INPUT | IGROSS REACTION | BRG | DOWN | HORZ | UPLIFT IN-SX | 388 | 0 | 0 | 5-8 | 94 | 0 | 0 | 1-8 | 45 | 0 | 0 | 1-8 | IN-SX 1-8 1-8 1-8 HORZ 0

0-0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS JT C D

	1ST LCASE	MAX /	MIN COMPO	ONENT REACTI	ONS		
Γ	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
	263	182 / 0	23 / 0	0/0	0/0	58 / 0	0/0
	65	53/0	0/0	0/0	0/0	12 / 0	0/0
	32	0/0	19/0	0/0	0/0	13 / 0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

E-D

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING TOTAL LOAD CASES: (5)

CHORDS WEBS MAX. FACTORED FACTORED MAX. FACTORED ACTORED FACTORED FACTORED FACTORED (LBS) (PLF) CSI (LC) UNBRAC (LBS) FROM TO ENGTHER-TO 0.0 0.0 0.02 (3) 7.81 (0.47 - 1.24.4 - 1.24.4 0.17 (1) 10.00 (7.00 - 1.24.4 - 1.24.4 0.17 (1) 6.25 MEMB. FR-TO -325 / 0 0 / 47 -17 / 0 E-B A-B B-C -39.2 -39.2 0.03 (3) 10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

₹ East Gwillimbury

1-8

2-0-0

2-0-0

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

TOTAL WEIGHT = 6 X 8 = 49

SPECIFIED LOADS:

DESIGN CRITERIA

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14

DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.17/1.00 (A-B:1) , BC=0.03/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. - 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90) JSI METAL= 0.17 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN

THE DESIGN OF THIS COMPONENT.

Dec 20, 2020

PROFESSIONAL CHARLES



JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL -**BRENTWOOD 3 EL 2** Page 20 of 38 NE1220-142 J13 TRUSS DESC. Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:44 2020 Page ID:qKy8nLSCtBps7zaDJTm7k2zFzGC-MLUIC1xXBDO5cc ILIVfX4bWM ZORRIKoM8JKqy7 2-0-0 2-0-7 0-7 -1-3-8 0-0 1-3-8 Scale = 1:17.0 С 53 8.00 12 2x4 II В D 1-17 0-0 2-0-0 2-0-0 TOTAL WEIGHT = 2 X 8 = 16 DIMENSIONS, SUPPORTS, AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER LUMBER N. L. G. A. RULES BEARINGS FACTORED GROSS REACTION **DESIGN CRITERIA** CHORDS E - B A - C E - D SIZE 2x4 LUMBER DESCR SPF MAXIMUM FACTORED INPUT GROSS REACTION BRG REORD | MAXIMUM FACTORED | INPUT | I DRY SPECIFIED LOADS: IN-SX 1-8 1-8 1-8 HORZ 0 SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C . D SPACING = 24.0 IN. C/C
 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES
 W

 B
 TMV+p
 MT20
 2.0

 E
 BMV1+p
 MT20
 2.0
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. ALLOWABLE DEFL.(LL)= L/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00") LOADING TOTAL LOAD CASES: (5) CHORDS WEBS MAX. FACTORED FACTORED MAX. FACTORED ACTORED FACTORED FACTORED FACTORED (LEST LOAD LC1 MAX MAX. MEMB. (LBS) (PLF) CSI (LC1 UNBRAC FROM TO LENGTHER-TO 0.0 0.0 0.02 (3) 7.81 (0.47 - 1.24.4 - 1.24.4 0.17 (1) 10.00 (7) - 1.24.4 - 1.24.4 0.17 (1) 10.00 (1) 6.25 MEMB. CSI: TC=0.17/1.00 (A-B:1) , BC=0.03/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (A-B:1) FR-TO -328 / 0 0 / 47 -17 / 0 E-B A-B B-C DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 -39.2 -39.2 0.03 (3) 10.00 E-D TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

₹ East Gwillimbury

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

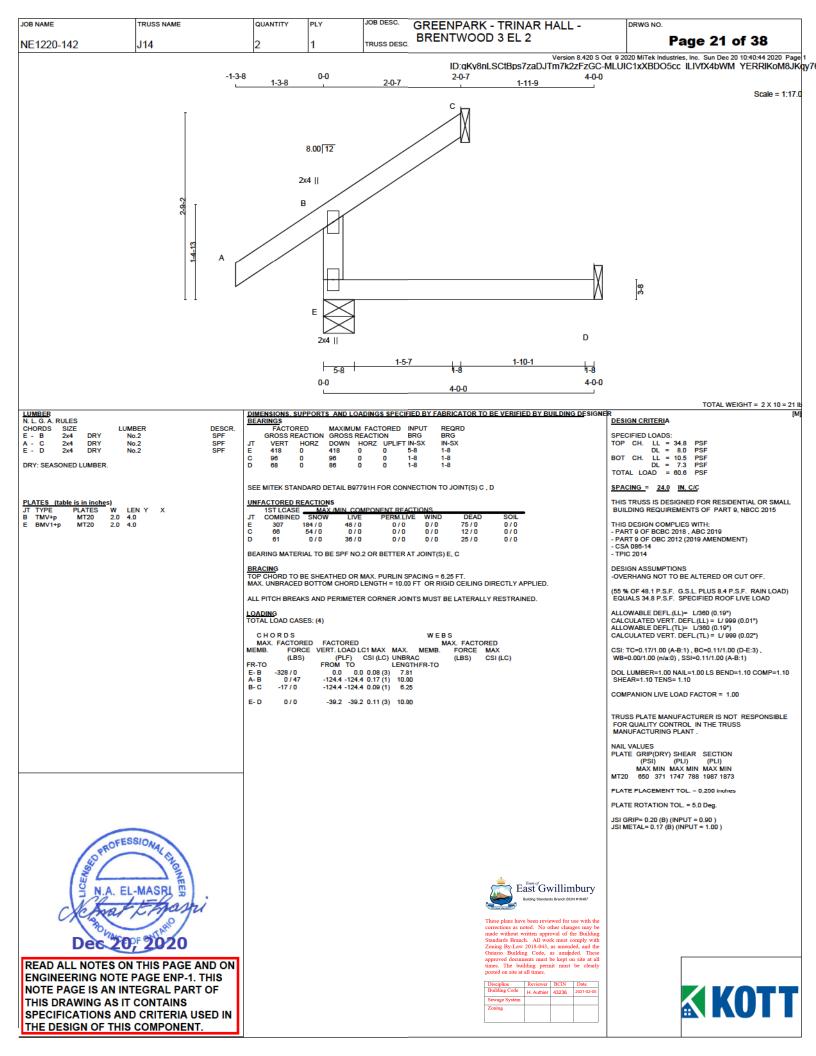
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. - 0.250 inches PLATE ROTATION TOL. = 5.0 Deg JSI GRIP= 0.20 (B) (INPUT = 0.90) JSI METAL= 0.17 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

Dec 20, 2020

PROFESSIONAL CHARLES



JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL -**BRENTWOOD 3 EL 2** Page 22 of 38 NE1220-142 J15 TRUSS DESC. Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:44 2020 Page ID:qKy8nLSCtBps7zaDJTm7k2zFzGC-MLUIC1xXBDO5cc ILIVfX4bTh Y6RRIKoM8JKqy7 -1-3-8 0-0 1-3-8 4-0-0 Scale = 1:23.5 С 8.00 12 4-0-13 2x4 || D 5-8 0-0 4-0-0 4-0-0 TOTAL WEIGHT = 2 X 13 = 26 I DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER LUMBER N. L. G. A. RULES BEARINGS FACTORED GROSS REACTION **DESIGN CRITERIA**
 MAXIMUM
 FACTORED BRG
 INPUT BRG

 DOWN
 HORZ
 UPLIFT IN-SX

 571
 0
 0
 5-8

 187
 0
 0
 1-8

 86
 0
 0
 1-8
 CHORDS E - B A - C E - D SIZE 2x4 LUMBER DESCR SPF REORD DRY SPECIFIED LOADS: DOWN 571 187 IN-SX 1-8 1-8 1-8 HORZ 0 SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C . D SPACING = 24.0 IN. C/C
 PLATES
 (table is in inches)

 JT
 TYPE
 PLATES
 W

 B
 TMV+p
 MT20
 2.0

 E
 BMV1+p
 MT20
 2.0
 UNFACTORED REACTIONS

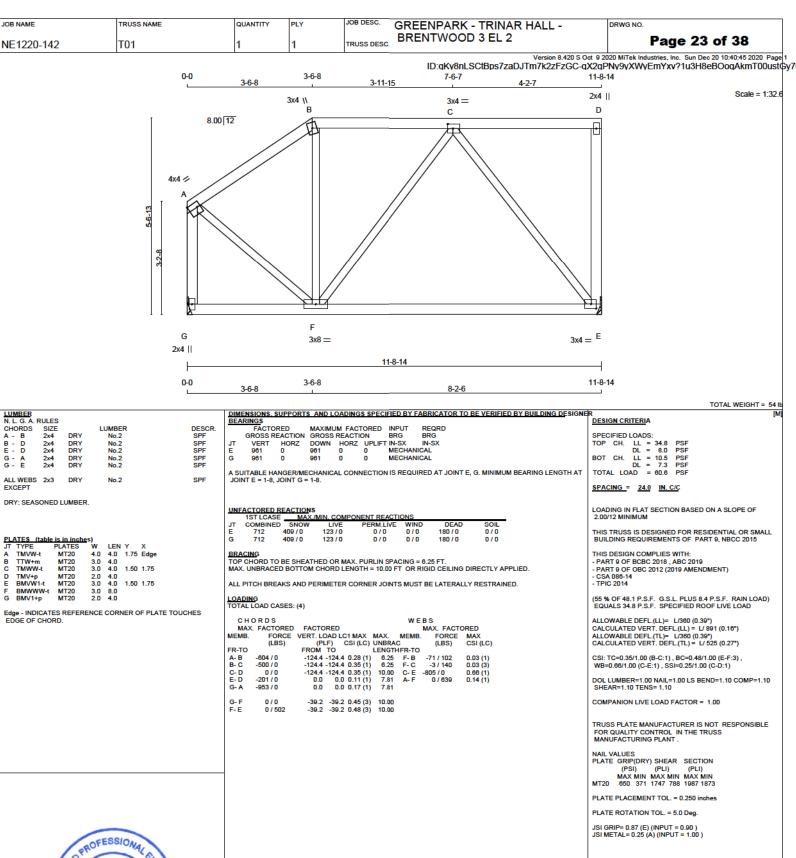
1ST LCASE MAX //

JT COMBINED SNOW THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14 0/0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. ALLOWABLE DEFL.(LL)= L/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02") LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED FACTORED MAX. FACTORED ACTORED FACTORED FACTORED FACTORED (LEST LOAD LC1 MAX MAX. MEMB. (LBS) (PLF) CSI (LC1 UNBRAC FROM TO LENGTHER-TO 0.0 0.0 0.09 (3) 7.81 (0.47 - 1.24.4 - 1.24.4 0.17 (1) 10.00 (4.70 - 1.24.4 - 1.24.4 0.34 (1) 6.25 MEMB. CSI: TC=0.34/1.00 (B-C:1) , BC=0.11/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.20/1.00 (B-C:1) FR-TO -482 / 0 0 / 47 -34 / 0 E-B A-B B-C DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 -39.2 -39.2 0.11 (3) 10.00 E-D 0/0 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. - 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.30 (B) (INPUT = 0.90) JSI METAL= 0.25 (B) (INPUT = 1.00) PROFESSIONAL CHARLES ₹ East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amedded. These approved documents must be kept on site at all times. The Judding nearnity must be clearly Dec 20, 2020

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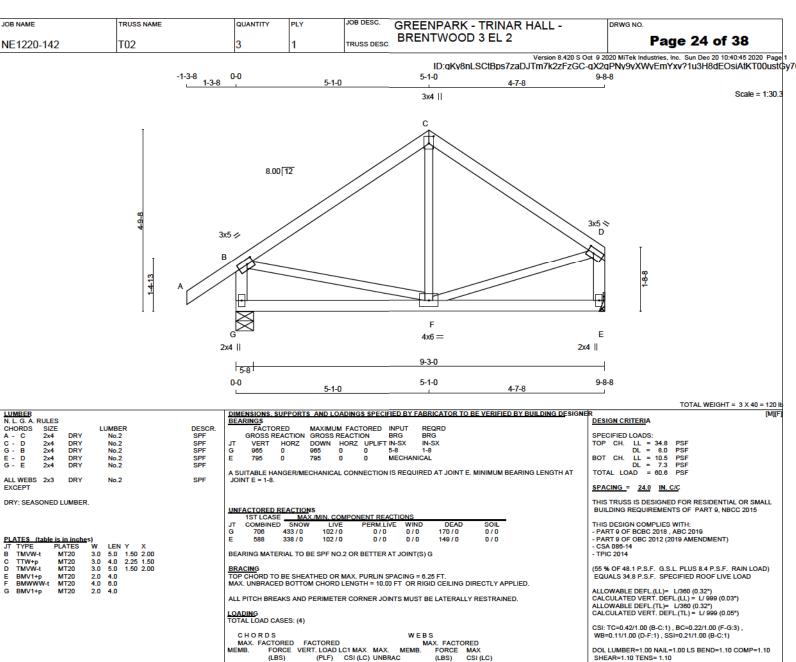
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			





G F

N.A. EL-MASRI TO Des 20: 2020

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LUADIN								
TOTAL I	LOAD CASES:	(4)						
СН	ORDS					WEB	ıs	
	FACTORED	FACTO	RED				MAX. FACTO	ORFD
MEMB.		VERT. LO		1 MAX	MAX.		FORCE	
	(LBS)	(PI	LF) (CSI (LC)	UNBRA	C	(LBS)	CSI (LC)
FR-TO						HFR-TO	/	,
A-B	0 / 47	-124.4	-124.4	0.17(1)	10.00	F-C	0 / 190	0.05(3)
B- C	-546 / 0	-124.4	-124.4	0.42(1)	6.25	B-F	0 / 464	0.10(1)
	-546 / 0		-124.4	0.34 (1)	6.25	F- D	0 / 476	0.11(1)
	-883 / 0	0.0		0.09(1)				
E- D	-732 / 0	0.0	0.0	0.08 (1)	7.81			
G-F	0/0			0.22(3)				
F-E	0/0	-39.2	-39.2	0.22 (3)	10.00			



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			



COMPANION LIVE LOAD FACTOR = 1.00

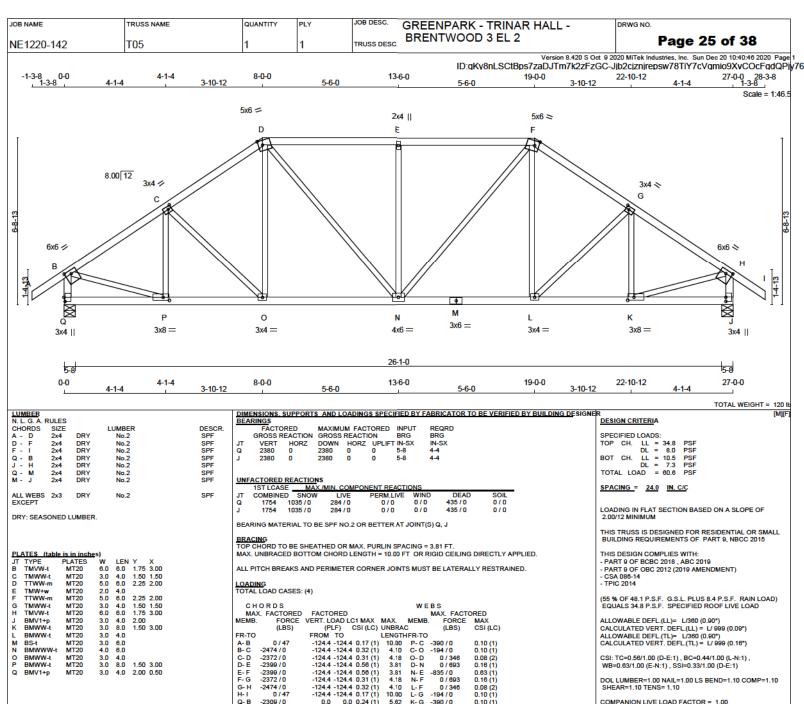
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)

MANUFACTURING PLANT

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS





10.00 4.10 4.18 3.81 3.81 4.18 4.10 10.00 A-B B-C C-D D-E E-F F-G H-I Q-B J-H L- F L- G K- G B- P K- H -2309 / 0 0.0 0.24 (1) 0.0 0.24 (1) 5.62 -390 / 0 0.10(1) -2309 / 0 0.0 5.62 0 / 2155 0 / 2155 0 / 0 0 / 2084 0 / 1949 0 / 1949 0 / 2084 Q- P P- O O- N N- M M- L L- K -39.2 -39.2 0.11 (3) -39.2 -39.2 0.44 (1) -39.2 -39.2 0.44 (1) -39.2 -39.2 0.44 (1) -39.2 -39.2 0.44 (1) -39.2 -39.2 0.44 (1) 10.00 10.00 10.00 10.00 10.00 10.00 0/0

PROFESSIONAL CHORES

Dec 20, 2020 READ ALL NOTES ON THIS PAGE AND ON

ENGINEERING NOTE PAGE ENP-1. THIS

NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

📉 East Gwillimbury

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

KOTT

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

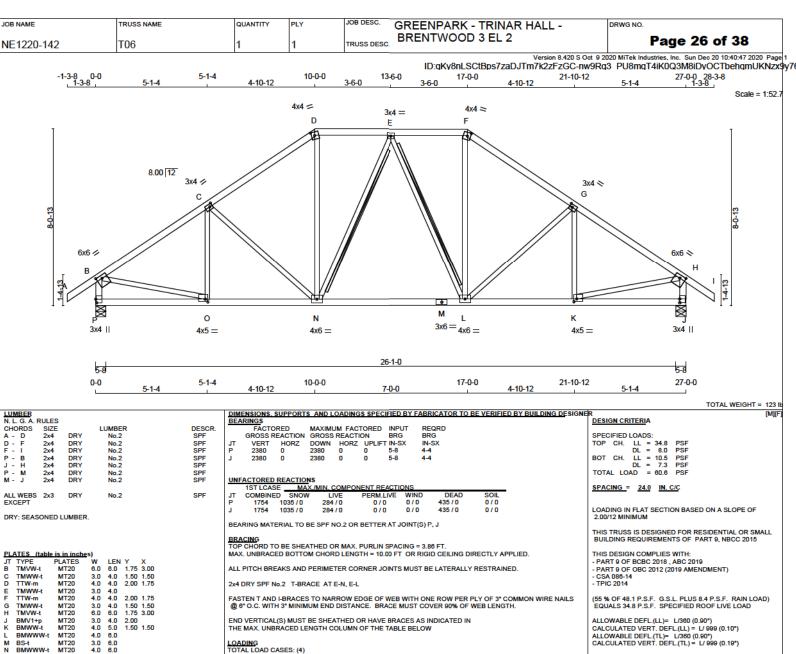
MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.90 (H) (INPUT = 0.90) JSI METAL= 0.69 (M) (INPUT = 1.00)

NAIL VALUES



1.50 1.50 2.00 0.50

СН	ORDS					WE	BS	
MAX	ORDS X. FACTORED	FACTO	RED				MAX. FACTO	RED
	FORCE							
	(LBS)	(PL	.F) (CSI (LC)	UNBRA	C	(LBS)	CSI (LC)
FR-TO					LENGTH			
A-B	0 / 47	-124.4	-124.4	0.17(1)	10.00	O- C	-251 / 71	0.09(1)
B- C	-2529 / 0	-124.4	-124.4	0.50(1)	3.86	C-N	-449 / 0	0.37(1)
C-D	-2212/0	-124.4	-124.4	0.47 (1)	4.11	N- D	0 / 799	0.18(1)
D-E	-1814 / 0	-124.4	-124.4	0.21(1)	4.78	N-E	-280 / 0	0.16(1)
E-F	-1814 / 0	-124.4	-124.4	0.21(1)	4.78	E-L	-280 / 0	0.16(1)
F- G	-2212 / 0	-124.4	-124.4	0.47 (1)	4.11	L-F	0 / 799	0.18(1)
G-H	-2529 / 0	-124.4	-124.4	0.50(1)	3.86	L- G	-449 / 0	0.37(1)
H- I	0 / 47	-124.4	-124.4	0.17(1)	10.00	K-G	-251 / 71	0.09(1)
P-B	-2294 / 0	0.0	0.0	0.24(1)	5.63	B-O	0 / 2185	0.49(1)
J- H	-2294 / 0	0.0	0.0	0.24(1)	5.63	K- H	0 / 2185	0.49(1)
P- 0	0/0	-39.2	-39.2	0.17 (3)	10.00			
O- N	0 / 2138	-39.2	-39.2	0.51(1)	10.00			
N- M	0 / 1926	-39.2	-39.2	0.48 (1)	10.00			
	0 / 1926			0.48 (1)				
L-K	0 / 2138	-39.2	-39.2	0.51(1)	10.00			
K- I	0.70	-30.2	-30.2	0.17 (3)	10.00			

POFESSIONAL CHARLES 20, 2020 Des

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



es. The building permit must be clearly ted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

CSI: TC=0.50/1.00 (G-H:1) , BC=0.51/1.00 (K-L:1) , WB=0.49/1.00 (H-K:1) , SSI=0.25/1.00 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

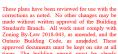
MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

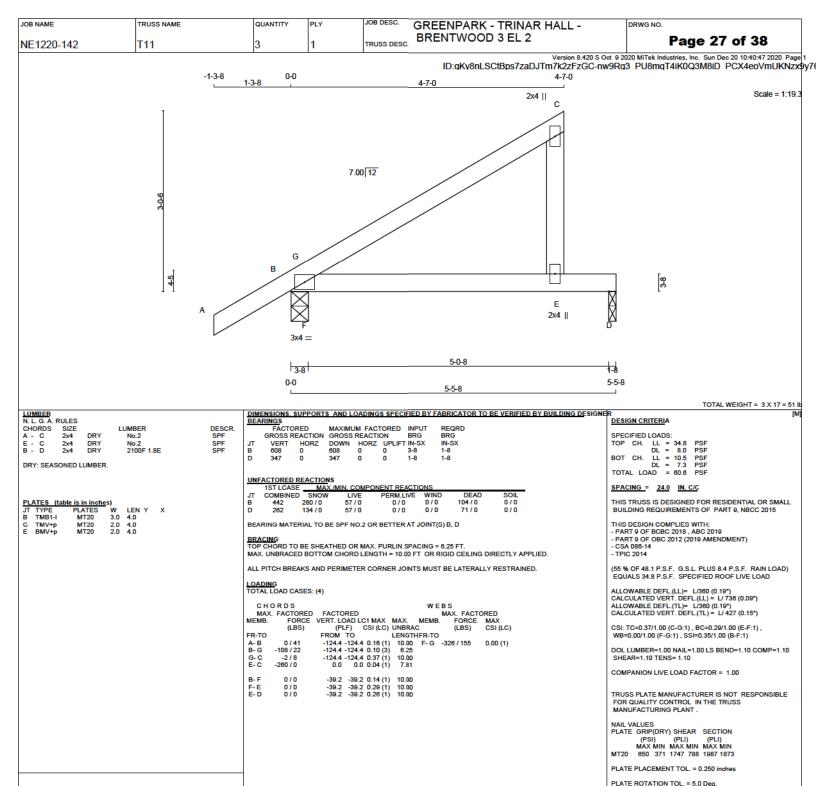
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.89 (H) (INPUT = 0.90) JSI METAL= 0.67 (B) (INPUT = 1.00)









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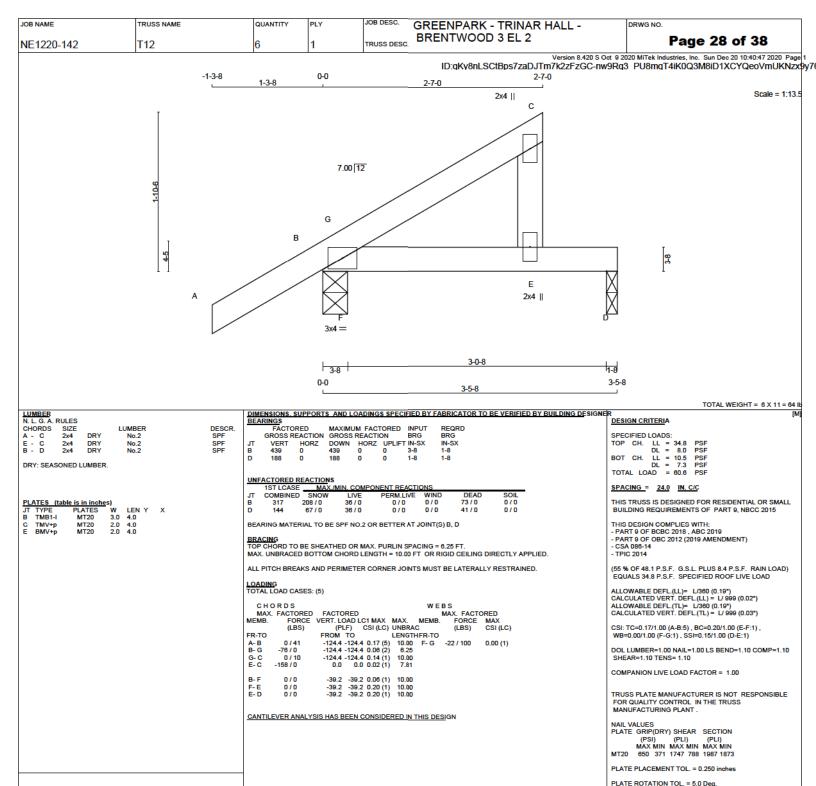
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			





JSI GRIP= 0.41 (B) (INPUT = 0.90) JSI METAL= 0.12 (C) (INPUT = 1.00)





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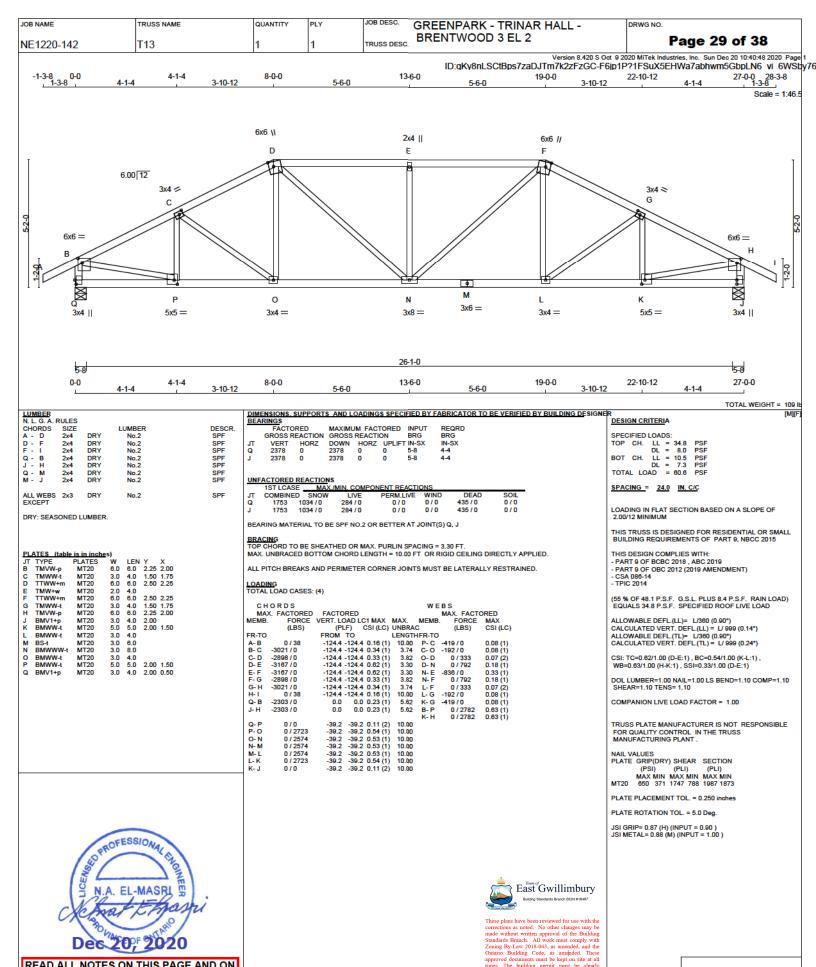
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Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			





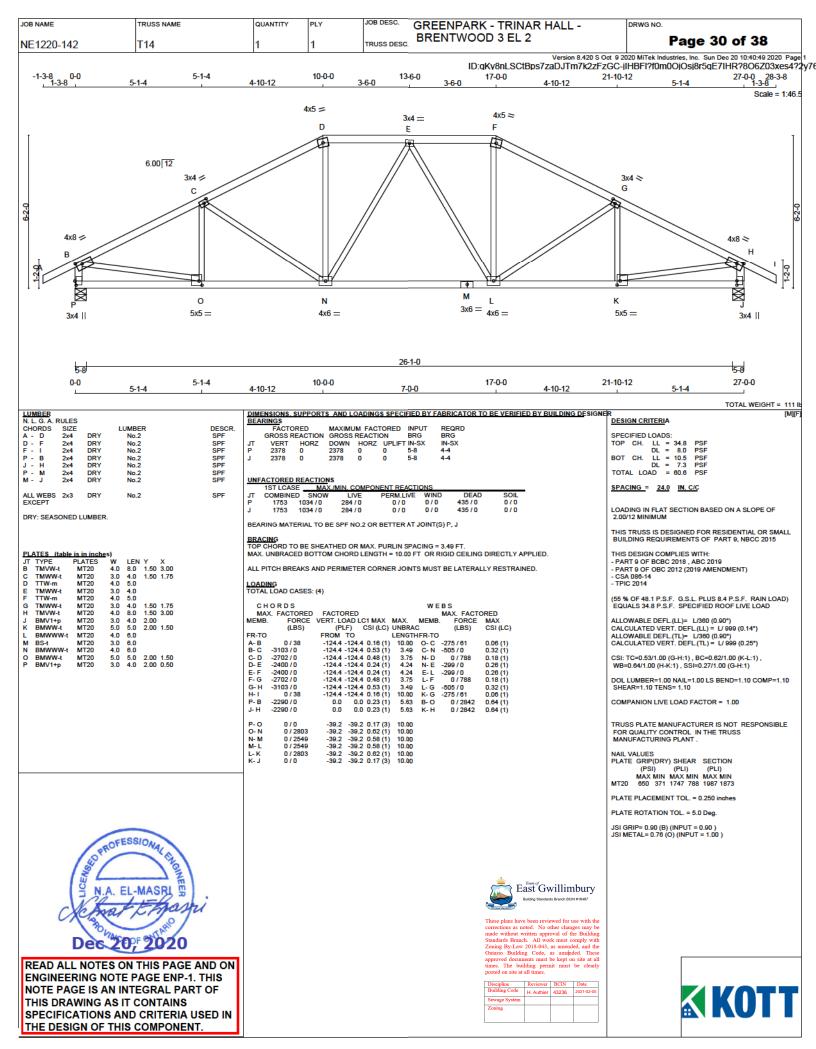
JSI GRIP= 0.27 (B) (INPUT = 0.90) JSI METAL= 0.07 (C) (INPUT = 1.00)

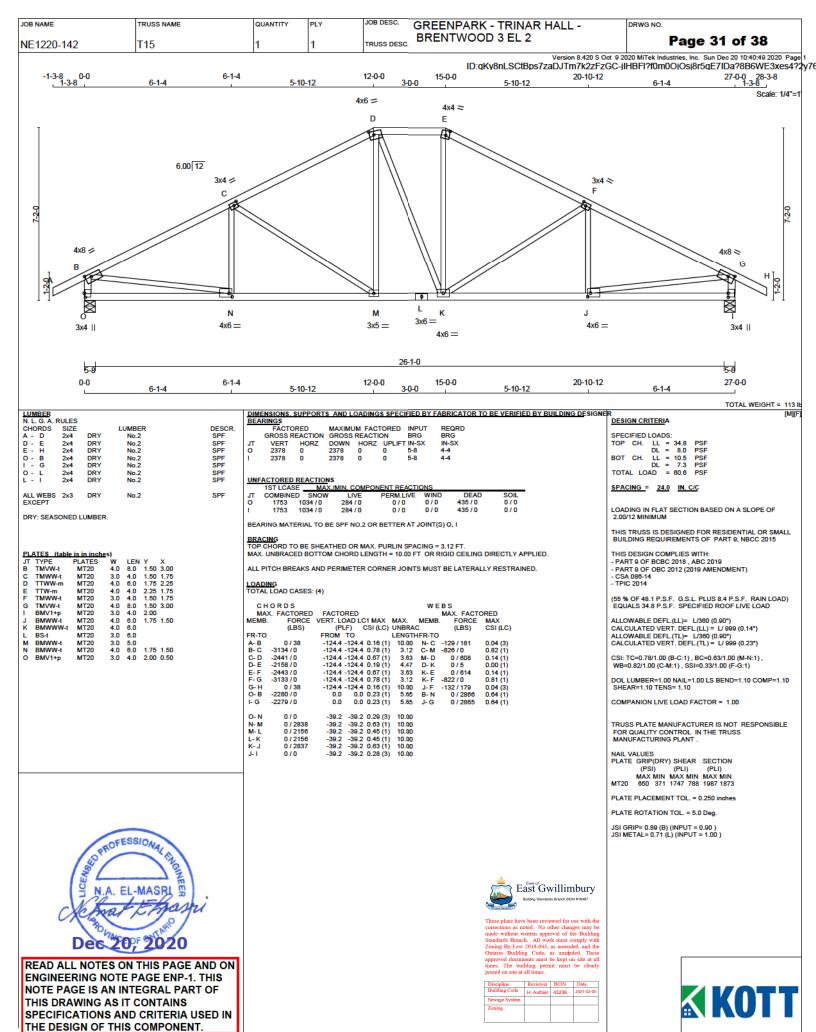


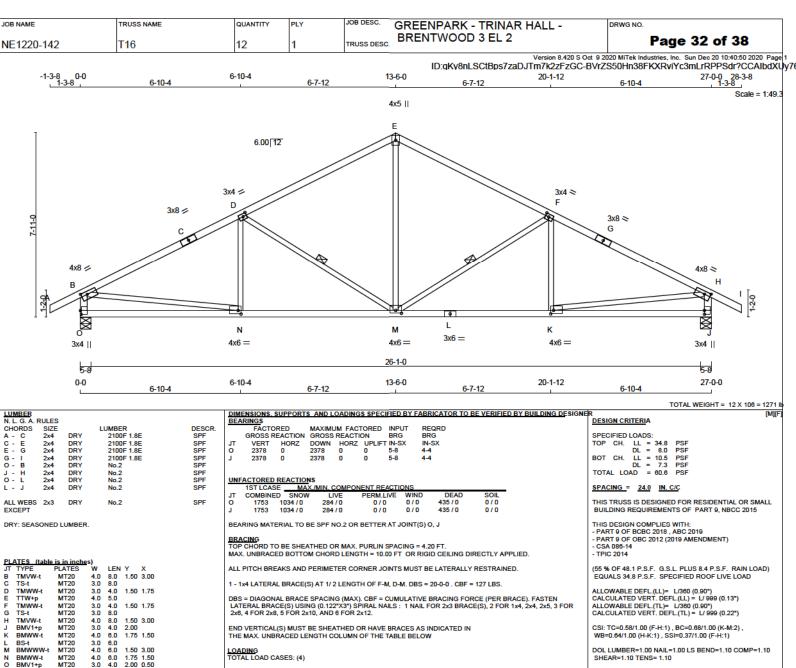
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PROFESSIONAL CHORES

Dec 20, 2020 READ ALL NOTES ON THIS PAGE AND ON

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C H O R D S

MAX. FACTORED FACTORED

MEMB. FORCE VERT. LOAD LC1 MAX MAX. IN CLBS) (PLF) CSI (LC) UNBRAC

FROM TO LENGTHF

124.4 - 124.4 0.11 (1) 10.00

420 4.20 FACTORED MAX. FACTO MEMB. MAX CSI (LC) (LBS) LENGTHFR-TO 10.00 M-E 0/1353 4.20 M-F -1016/0 4.20 K-F -82/230 4.84 D-M -1016/0 4.84 N-D -62/230 4.20 B-N 0/2854 10.00 K-H 0/2854 10.00 LENGTHER-TO -124.4 -124.4 0.11 (1) -124.4 -124.4 0.58 (1) A-B B-C 0.30 (1) -124.4 -124.4 0.58 (1) -124.4 -124.4 0.58 (1) -124.4 -124.4 0.52 (1) -124.4 -124.4 0.52 (1) -124.4 -124.4 0.58 (1) -124.4 -124.4 0.58 (1) -124.4 -124.4 0.11 (1) 0.43 (1) 0.06 (3) 0.43 (1) 0.06 (3) 0.64 (1) 0.64 (1) C- D D- E E- F F- G G- H H- I O- B -3122 / 0 -2257 / 0 -2257 / 0 -2257 / 0 -3122 / 0 -3122 / 0 0 / 38 -2267 / 0 0.0 0.0 0.23 (1) 0.0 0.23 (1) J- H -2267 / 0 -39.2 -39.2 0.35 (3) -39.2 -39.2 0.68 (2) -39.2 -39.2 0.68 (2) -39.2 -39.2 0.68 (2) -39.2 -39.2 0.35 (3) O- N N- M 0 / 0 0 / 2832 10.00 10.00 0 / 2832

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₹ East Gwillimbury

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

KOTT

COMPANION LIVE LOAD FACTOR = 1.00

PLATE PLACEMENT TOL. = 0.250 inches

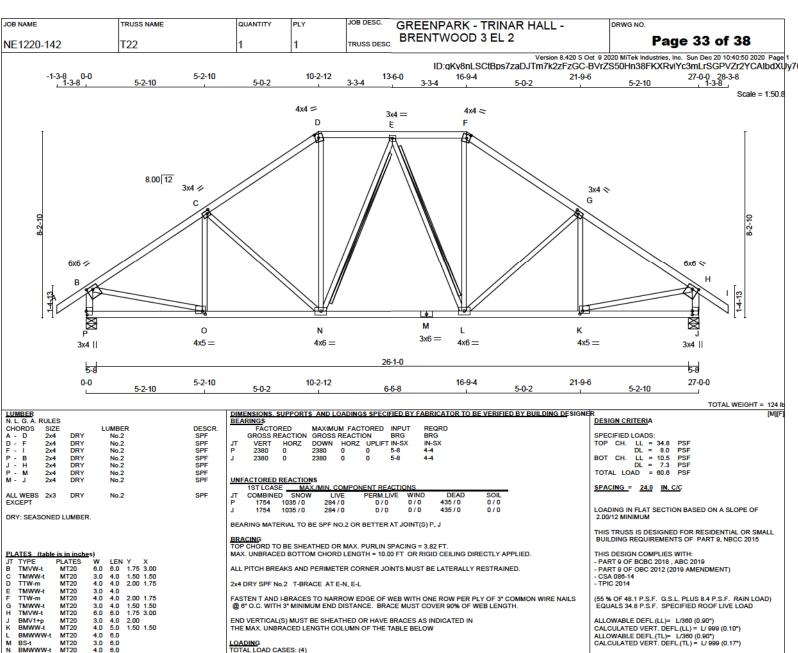
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)

JSI METAL= 0.94 (L) (INPUT = 1.00)

MANUFACTURING PLANT

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS



N.A. EL-MASRI Des 20, 2020

1.50 1.50 2.00 0.50

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IOIAL	LOAD CASES:	(4)						
	ORDS					W E		
	K. FACTORED							
MEMB.	FORCE	VERT. LO.	AD LC	1 MAX	MAX.	MEMB.	FORCE	MAX
							(LBS)	CSI (LC)
FR-TO		FROM	ГО		LENGTI	HFR-TO		
A-B	0 / 47	-124.4 -	124.4	0.17(1)	10.00	0- C	-231 / 88	0.08(1)
B- C	-2534 / 0	-124.4 -	124.4	0.52(1)	3.82	C-N	-482 / 0	
	-2188 / 0							0.18 (1)
	-1793 / 0							
	-1793 / 0							0.14(1)
	-2188 / 0							
	-2534 / 0							
	0 / 47							
	-2293 / 0							
	-2293 / 0							0.49 (1)
							0,2,00	0.10(1)
P-O	0/0	-39.2	-39.2	0.18 (3)	10.00			
O- N	0 / 2142	-39.2	-39.2	0.50(1)	10.00			
N- M	0 / 1888	-39.2	-39.2	0.45(1)	10.00			
M-L	0 / 1888	-39.2	-39.2	0.45(1)	10.00			
	0 / 2142							
K-J	0/0			0.18 (3)				
		,						



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

CSI: TC=0.52/1.00 (G-H:1), BC=0.50/1.00 (K-L:1), WB=0.49/1.00 (H-K:1), SSI=0.26/1.00 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

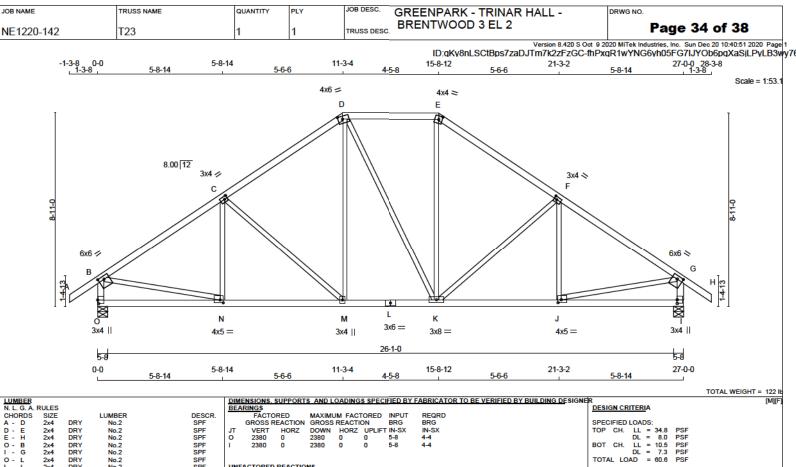
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.89 (H) (INPUT = 0.90) JSI METAL= 0.67 (B) (INPUT = 1.00)







LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
O - B	2x4	DRY	No.2	SPF
1 - G	2x4	DRY	No.2	SPF
0 - L	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

LEN Y

PL	ATES	(table is	in inch	es)
IT	TVDE	DI	ATEC	W

В	TMVW-t	MT20	6.0	6.0	1.75 3.00
C	TMWW-t	MT20	3.0	4.0	1.50 1.50
D	TTWW-m	MT20	4.0	6.0	1.75 2.50
Е	TTW-m	MT20	4.0	4.0	2.00 1.75
F	TMWW-t	MT20	3.0	4.0	1.50 1.50
G	TMVW-t	MT20	6.0	6.0	1.75 3.00
	BMV1+p	MT20	3.0	4.0	2.00
J	BMWW-t	MT20	4.0	5.0	1.50 1.75
K	BMWWW-t	MT20	3.0	8.0	
L	BS-t	MT20	3.0	6.0	
М	BMWW+t	MT20	3.0	4.0	
N	BMWW-t	MT20	4.0	5.0	1.50 1.75
_	D10/4	MITOO	2.0	4.0	2 00 0 50

UNFACTORED REACTIONS

	131 LUASI	IVIAA-/	MIIN, COMP	ONENT REACTI	UNO		
JT	COMBINE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
0	1754	1035 / 0	284 / 0	0/0	0/0	435 / 0	0/0
1	1754	1035 / 0	284 / 0	0/0	0/0	435 / 0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, I

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.64 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

<u>LOADING</u> TOTAL LOAD CASES: (4)

CH	ORDS					W E	BS	
MAX	X. FACTORED	FACTO	RED				MAX. FACTO	DRED
мемв.							. FORCE	
	(LBS)	(PL	.F) (CSI (LC)	UNBRA	С	(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH	HFR-TO		
A-B	0 / 47	-124.4	-124.4	0.17(1)	10.00	N-C	-153 / 154	0.06(1)
B-C	-2546 / 0	-124.4	-124.4	0.65 (1)	3.64	C- M	-622 / 0	0.69(1)
C-D	-2078 / 0	-124.4	-124.4	0.58 (1)	4.04	M- D	0 / 591	0.13(1)
D-E	-1695 / 0	-124.4	-124.4	0.35 (1)	4.73	D-K	0/3	0.00(1)
E-F	-2079 / 0	-124.4	-124.4	0.59(1)	4.04	K-E	0 / 594	0.13(1)
F-G	-2545 / 0	-124.4	-124.4	0.65 (1)	3.64	K-F	-620 / 0	0.69(1)
G-H	0 / 47	-124.4	-124.4	0.17(1)	10.00	J-F	-155 / 153	0.06(1)
O- B	-2289 / 0	0.0	0.0	0.24(1)	5.63	B- N	0 / 2194	0.49(1)
I- G	-2288 / 0	0.0	0.0	0.24(1)	5.63	J-G	0 / 2194	0.49(1)
O- N	0/0	-39.2	-39.2	0.25 (3)	10.00			
N- M	0 / 2156	-39.2	-39.2	0.51(2)	10.00			
M-L	0 / 1694	-39.2	-39.2	0.38(1)	10.00			
L-K	0 / 1694	-39.2	-39.2	0.38 (1)	10.00			
K-J	0 / 2156	-39.2	-39.2	0.51(2)	10.00			
J-I	0/0	-39.2	-39.2	0.25(3)	10.00			

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 . ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09") ALLOWABLE DEFL.(TL)= L/360 (0.90")

CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.65/1.00 (B-C:1) , BC=0.51/1.00 (M-N:2) , WB=0.69/1.00 (C-M:1) , SSI=0.29/1.00 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90) JSI METAL= 0.68 (B) (INPUT = 1.00)



20, 2020

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Dec.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			



JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL -**BRENTWOOD 3 EL 2** Page 35 of 38 NE1220-142 T28 TRUSS DESC. Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sun Dec 20 10:40:51 2020 Page 1
ID:qKv8nLSCtBps7zaDJTm7k2zFzGC-fhPxqR1wYNG6vh05FG7IJYOjUpvaacULPvLB3wy76 -1-3-8 0-0 1-3-8 1-7-0 Scale = 1:17.2 С 12.00 12 В Е 3x4 =2x4 || 3-8 0-0 2-5-8 2-5-8 TOTAL WEIGHT = 8 X 11 = 91 DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER LUMBER N. L. G. A. RULES | DIMENSIONS. SUFFORD | SU **DESIGN CRITERIA** DESCR. SPF SPF SPF SPF CHORDS A - C E - C F - B SIZE 2x4 2x4 2x4 2x4 2x4 LUMBER REQRD DRY SPECIFIED LOADS: No.2 PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED ALL WEBS 2x3 DRY DRY: SEASONED LUMBER. No.2 UNFACTORED REACTIONS SPACING = 24.0 IN. C/C 1ST LCASE MAX COMBINED SNOW ENT REACTIONS
PERM.LIVE W THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015
 PLATES (table is in inches)

 JT TYPE
 PLATES
 W
 LEN Y
 X

 B TMVW+p
 MT20
 4.0
 5.0
 1.75
 2.00

 C TMV+p
 MT20
 2.0
 4.0
 5.0
 1.75
 2.00

 E BMVW+t
 MT20
 3.0
 4.0
 4.0
 4.0
 4.0
 4.0
 4.0
 4.0
 4.0
 4.0
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 0/0 0/0 THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, D BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8,25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. DESIGN ASSUMPTIONS ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD LOADING TOTAL LOAD CASES: (5) ALLOWABLE DEFL.(LL)= L/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00") CHORDS WEBS ACTORED FACTORED
FORCE VERT. LOAD LC1 MAX MAX. MAX. FACTORED MAX. FACTORED мемв. MEMB. FORCE MAX (PLF) CSI (LC) UNBRAC FROM TO LENGTHFR-TO -124.4 -124.4 0.17 (1) 10.00 B-E -124.4 -124.4 0.18 (1) 6.25 0.0 0.0 0.01 (5) 7.81 0.0 0.0 0.03 (1) 7.81 (LBS) (LBS) CSI (LC) FR-TO A-B B-C E-C F-B 0 / 61 0/0 0.00 (1) CSI: TC=0.17/1.00 (A-B:1) , BC=0.06/1.00 (E-F:2) , WB=0.00/1.00 (B-E:1) , SSI=0.10/1.00 (B-C:1) -54 / 0 -22 / 65 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 -39.2 -39.2 0.06 (2) 10.00 -39.2 -39.2 0.06 (2) 10.00 COMPANION LIVE LOAD FACTOR = 1.00 CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. - 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.23 (B) (INPUT = 0.90) JSI METAL= 0.08 (B) (INPUT = 1.00) PROFESSIONAL CHORES ₹ East Gwillimbury These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amedded. These approved documents must be kept on site at all divisors. The building servini must be clearly an experiment of the property of the contract of th

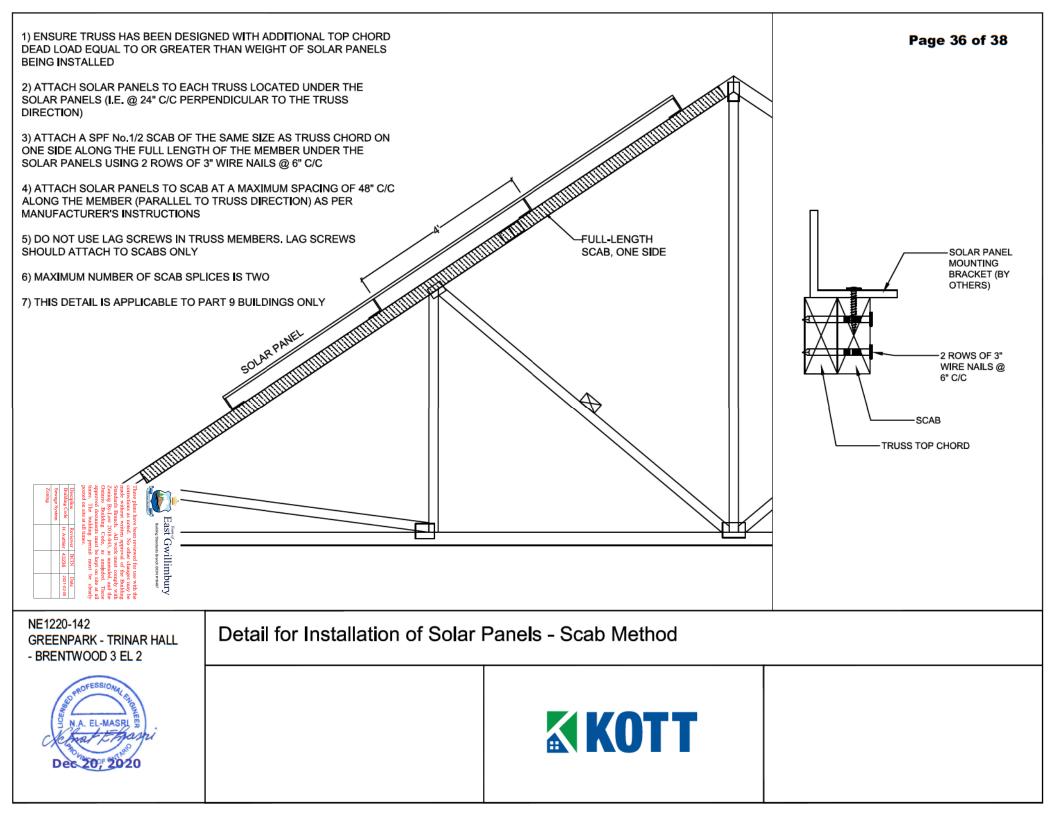
Dec 20, 2020 READ ALL NOTES ON THIS PAGE AND ON

ENGINEERING NOTE PAGE ENP-1. THIS

NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



nes. The building permit must be clearly ested on site at all times.



NE1220-142 GREENPARK - TRINAR HALL -BRENTWOOD 3 EL 2

BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

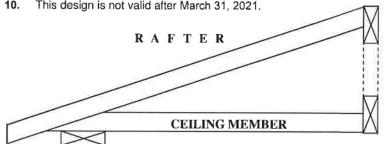
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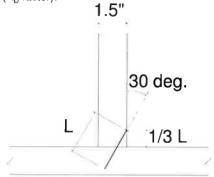
NAIL TYPE	LENGTH	DIAMETER	NAIL LATERAL	CAPACITY (LB)
MAILTHE	(IN)	(IN)	S-P-F	D. FIR
COMMON	3.00	0.144	132	147
WIRE	3.25	0.144	132	147
WINE	3.50	0.160	159	177
COMMON	3.00	0.122	97	108
SPIRAL	3.25	0.122	97	108
SFINAL	3.50	0.152	145	162

NOTES:

- 1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
- 2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
- 3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
- 7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (Kp factor).
- 8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
- 9. Nail values in this table comply with CSA O86-14, section 12.9.4

This design is not valid after March 31, 2021.





TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5'	' nail)	(3" and :	3.25" nail)
LUMBER SIZE	N	MAXIMUM NUMB	ER OF TOE-NA	ILS
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

PEO Certificate No. 10889485 OPROFESSIONAL DE

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-05
Sewage System			
Zoning			

G

I R U D

R

S E S

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

NAIL TYPE	LENGTH	DIAMETER	NAIL WITHDRAW	AL CAPACITY (LB)
NAIL ITE	(IN)	(IN)	S-P-F	D. FIR
COMMON	3.00	0.144	30	42
WIRE	3.25	0.144	32	45
WINE	3.50	0.160	38	52
COMMON	3.00	0.122	26	36
SPIRAL	3.25	0.122	28	40
SFINAL	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

NOTES:

- 1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
- 2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
- 3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- **4.** Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
- 7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
- 8. Nail values in this table comply with CSA O86-14, section 12.9.5
- 9. This design is not valid after March 31, 2021.

