*REVERSED LAYOUT

FRONT ELEVATION 'A'

FRONT ELEVATION 'B'

ENSURE PERMIT APPROVED DOCUMENTATION IS AVAILABLE ON SITE FOR ALL INSPECTIONS.

FINAL GRADING CERTIFICATE REQUIRED BEFORE FINAL INSPECTION SIGN-OFF

Drawing List:

TOWNSHIP OF NORTH DUMFRIES BUILDING DEPARTMENT

These Plans have been examined for Compliance with the Ontario Building Code requirements. A Building Permit has been Issued, subject to any changes noted, under the condition that the building will be constructed in accordance with the code.

Megan Opersko — REVIEWED BY

06/12/2019 — DATE

Areas:

	ELEVATION 'A'		ELEVATION 'B'	
	SF	SM	SF	SM
GROUND FLOOR	855.5	79.5	864.6	80.3
SECOND FLOOR	1119.4	104.0	1127.7	104.8
TOTAL AREA	**1974.9**	**183.5**	**1992.3**	**185.1**
COVERAGE INC PORCH	1317.7	122.4	1317.7	122.4
COVERAGE NOT INC PORCH	1249.1	116.0	1257.4	116.8

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONSTRUCTION CONFORMS TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. NOTATIONS MADE ON THESE DRAWINGS ARE FOR YOUR INFORMATION AND ASSISTANCE ONLY AND DO NOT NECESSARILY COMMENT ON ALL AREAS OF CONSTRUCTION.

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

Tice River Homes

Legacy

NOV 23 2019

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE:

SIGNATURE:

client: Tice River Homes
location: Ayr
project: Legacy
marketing name:

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	23-FEB-18	BU	JM					
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM					
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM					

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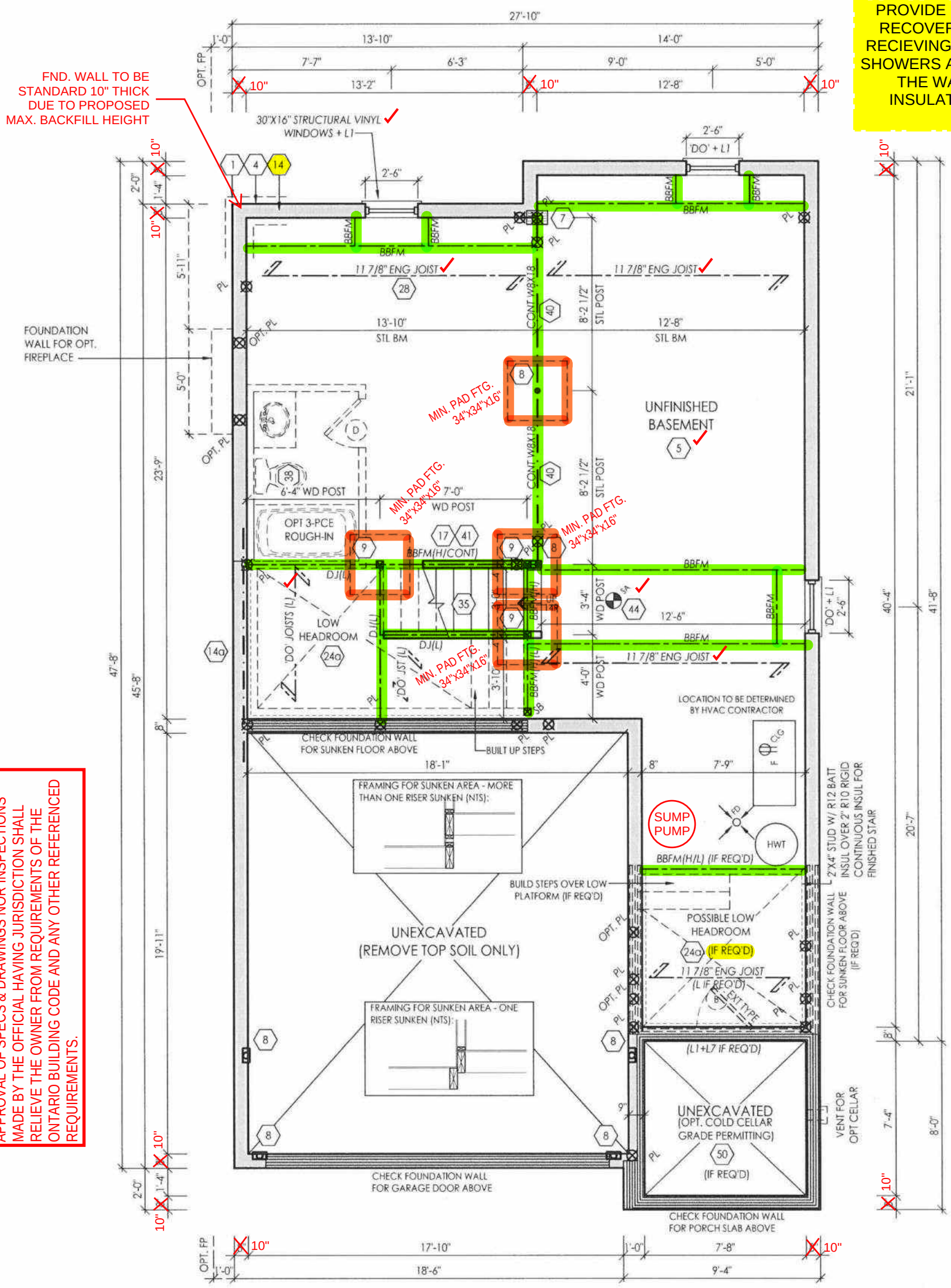
model: 36-01
scale: 3/16" = 1'0"
project #: 17052
page: A0

*REVERSED LAYOUT

PROVIDE DRAIN WATER HEAT RECOVERY UNIT ON STACKS RECIEVING DRAIN WATER FROM SHOWERS AND BE INSTALLED ON THE WARM SIDE OF THE INSULATION AS PER SB-12 2.1.1.11.



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SUMP PUMP/PIT SHALL BE INSTALLED AND CONNECTED ACCORDING TO LOCAL REGULATIONS.

SUMP PUMP LIDS, JOINTS AT INTERSECTIONS & ALL PENETRATIONS OF SLAB MUST BE SEALED TO PREVENT AIR LEAKAGE.

BASEMENT PLAN ELEV. 'A'

NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

CALL FOR INSPECTION OF EXCAVATION CRIBBING BEFORE POURING ANY CONCRETE

A SEPARATE PERMIT IS REQUIRED TO FINISH THE BASEMENT

JUN 23 2018

J. G. ALVAREZ
100014328

File: C:\...\Plot Standards\Temp\AcPublish_12640\17052-36-01-FINAL.dwg Plotted: Jul 19, 2018 By: WadeU

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

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page: A1

*REVERSED LAYOUT

LVL BEAM DESIGN CALCULATION SHEETS ARE REQUIRED TO BE PROVIDED FOR ALL LVLS AT FRAMING INSPECTION

1) FLOOR JOIST LAYOUTS AND INSTALLATION MANUAL SHALL BE AVAILABLE AT FRAMING INSPECTION.

2) BLOCKING REQUIRED UNDER ALL POINT LOADS TO SUITABLE BEARING.

3) SEE ATTACHED REQUIREMENTS FOR FIELD GLUED FLOORS WHERE REQUIRED.

A LANDING IS REQUIRED AT THE ENTRANCE FROM AN ATTACHED GARAGE WHEN THERE ARE MORE THAN 3 RISERS BETWEEN THE GARAGE FLOOR AND THE INTERIOR FLOOR LEVELS IN ACCORDANCE WITH 9.8.6.2.(3)(a). GUARDS CONFORMING TO O.B.C. 9.8.8. & SB-7 ARE REQUIRED WHEN LANDING EXCEEDS 24" ABOVE GARAGE FLOOR.

AN ELECTRIC VEHIVLE CHARGING ROUGH-IN IS REQUIRED IN THE GEARAGE. THIS INCLUDES A 200 AMP PANEL, CONDUIT AND 4-11/16" ELECTRICAL BOX AS PER DIV. B 9.34.4.

TALL WALL REQUIREMENTS
(A) THE STUDS ARE CLAD WITH NOT LESS THAN 9.5 MM THICK PLYWOOD, OSB OR WAFERBOARD SHEATHING ON THE EXTERIOR FACE, AND NOT LESS THAN 12.5 MM GYPSUM BOARD ON THE INTERIOR FACE,
(B) SOLID BRIDGING IS PROVIDED AT NOT MORE THAN 1.2 M O.C,
(C)THE STUDS ARE FASTENED TO THE TOP AND BOTTOM PLATES WITH NO FEWER THAN THREE 82 MM TOE-NAILS,
(D) THE DOUBLE TOP PLATES ARE FASTENED TOGETHER WITH NOT LESS THAN 76 MM NAILS SPACED NOT MORE THAN 200 MM O.C,
(E) ROOF FRAMING MEMBERS SPACED NOT MORE THAN 610 MM ARE FASTENED TO THE TOP PLATES WITH NO FEWER THAN FOUR 82 MM TOE-NAILS, AND
(F) THE BOTTOM PLATE IS FASTENED TO THE FLOOR JOISTS, BLOCKING OR RIM JOIST WITH NOT LESS THAN 82 MM NAILS SPACED NOT MORE THAN 200 MM O.C.

NOTE: ELECTRICAL, GAS AND VENT LOCATIONS ARE SCHEMATIC ONLY. TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL DRAWINGS BY THE CONTRACTOR

NOTE: REFER TO FLOOR JOIST DRAWINGS FOR APPROVED FLOOR JOIST LAYOUT AND SPACING

NOTE: CONC FRONT PORCH POURED PRIOR TO BRICK

GROUND FLOOR ELEV. 'A'

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JUN 23 2018

LICENSED PROFESSIONAL ENGINEER J. G. ALVAREZ 100014328

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**,UNDER DIVISION C,PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

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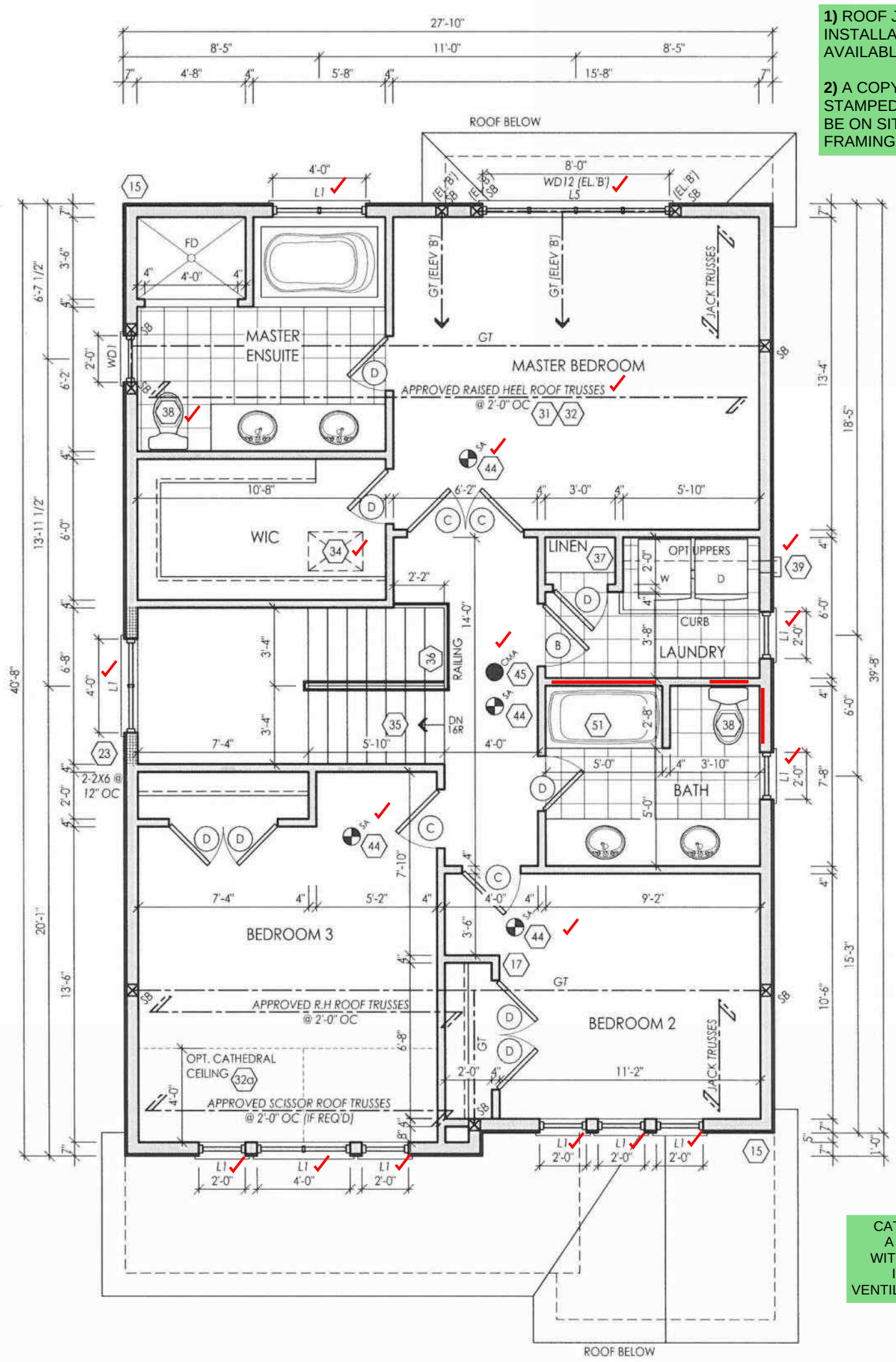
*REVERSED LAYOUT

1) ROOF JOIST LAYOUTS AND INSTALLATION MANUAL SHALL BE AVAILABLE AT FRAMING INSPECTION

2) A COPY OF THE LAYOUT AND PENG STAMPED ROOF COMPNENT DWGS TO BE ON SITE FOR COLLECTION AT FRAMING INSPECTION



SECOND FLOOR ELEV. 'A'

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

WINDOW SILL TO BE MINIMUM 2'-11" ABOVE STAIR/LANDING, OR BE PROTECTED BY A GUARD, OR BE DESIGNED TO WITHSTAND THE LOADS.

REINFORCEMENT REQUIRED IN MAIN BATHROOM STUD WALLS TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS.

CATHEDRAL CEILINGS SHALL HAVE A MINIMUM OF R-31 INSULATION WITH 2 1/2" CLEAR SPACE BETWEEN INSULATION AND SHEATHING. VENTILATED AT 1/300 OF THE ROOF AREA

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**, UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

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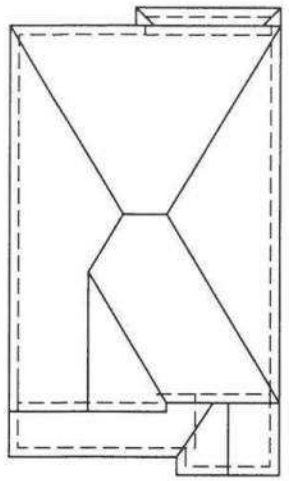

ROOF PLAN ELEV 'A'

NOTE: ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART 9 OF THE OBC. ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4" SPF @ 24" OC WITH A 2"X4" SPF VERTICAL POST TO THE TRUSS UNDER. AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

NOTE: REFER TO TRUSS DRAWINGS FOR APPROVED TRUSS LAYOUT

NOTE: REFER TO STREET-SCAPES FOR POSSIBLE MINOR CHANGES DUE TO GRADING CONDITIONS

GROSS GLAZING AREA

TOTAL PERIPHERAL WALL AREA	2716.58 SF	252.37 m²
FRONT GLAZING AREA	77.86 SF	7.23 m²
LEFT SIDE GLAZING AREA	23 SF	2.14 m²
RIGHT SIDE GLAZING AREA	52.66 SF	4.89 m²
REAR GLAZING AREA	127.22 SF	11.82 m²
TOTAL GLAZING AREA	280.74 SF	26.08 m²
TOTAL GLAZING PERCENTAGE	10.33 %	

FRONT ELEVATION 'A'

model 36-01
scale 3/16" = 1'0"
project # 17052
page A6

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location Ayr
marketing name

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client Tice River Homes
project Legacy

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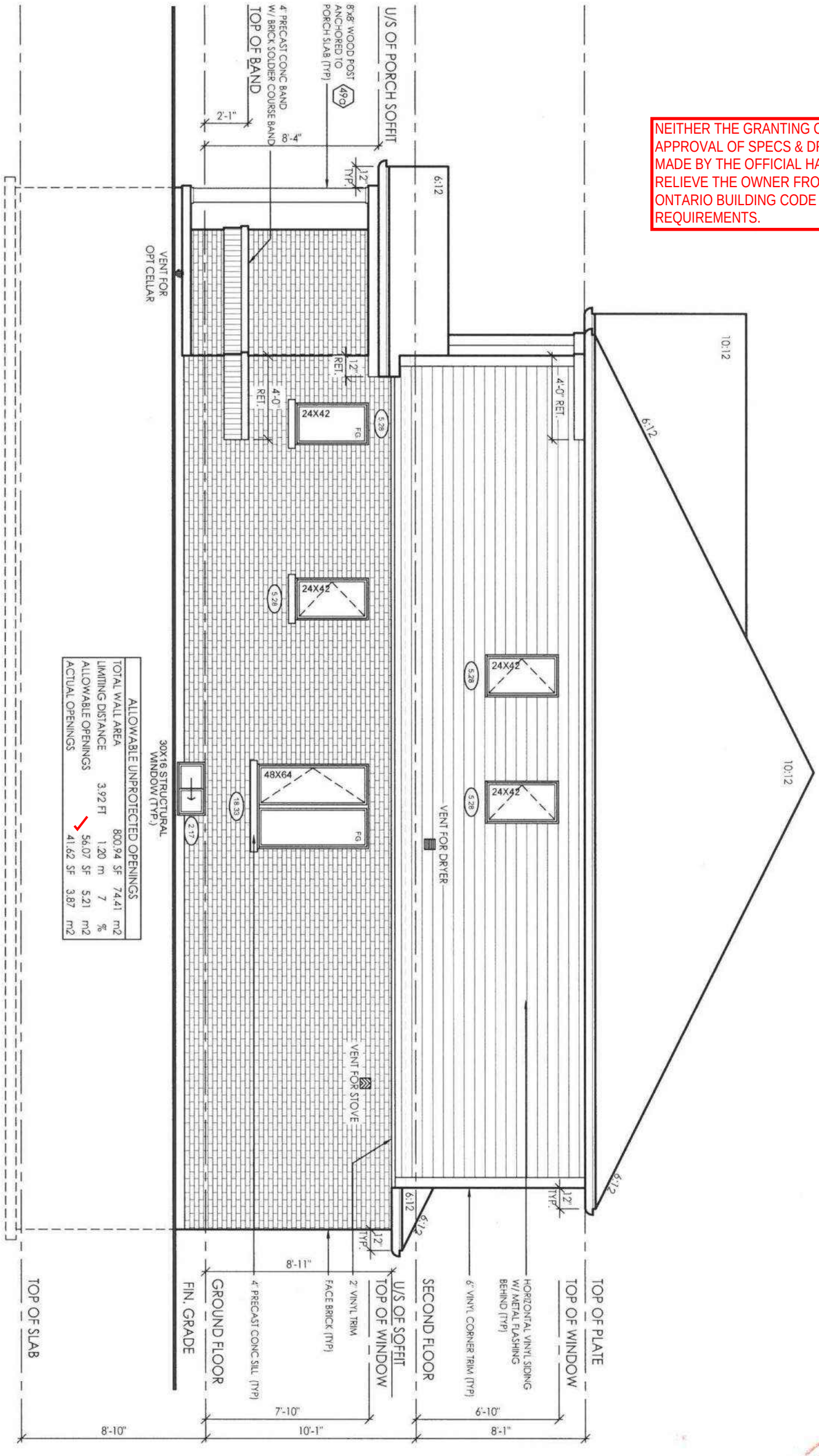
RIGHT SIDE ELEVATION 'A'



30X16 STRUCTURAL WINDOW (TYP.)

ALLOWABLE UNPROTECTED OPENINGS			
TOTAL WALL AREA	800.94 SF	74.41	m2
LIMITING DISTANCE	3.92 FT	1.20 m	7 %
ALLOWABLE OPENINGS	56.07 SF	5.21	m2
ACTUAL OPENINGS	41.62 SF	3.87	m2

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RN design
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model: 36-01
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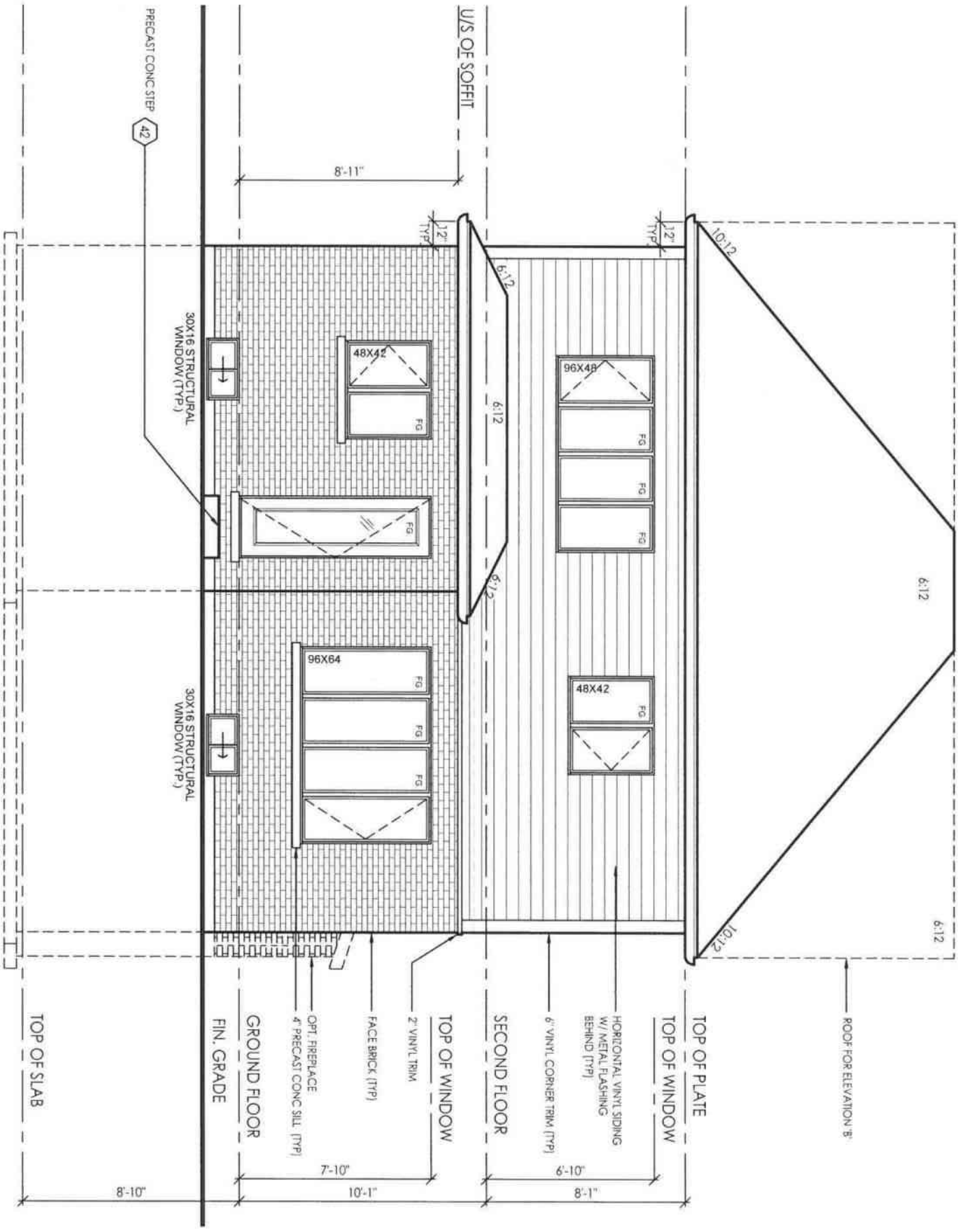
REAR ELEVATION 'A' & 'B'



PROVIDE STAIR, GUARD AND LANDING OR INSTALL PERMANENT BLOCKING TO RESTRICT DOOR OPENING TO MAXIMUM 4" WHEN DOOR SILL EXCEEDS 24" ABOVE GRADE.

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RN design
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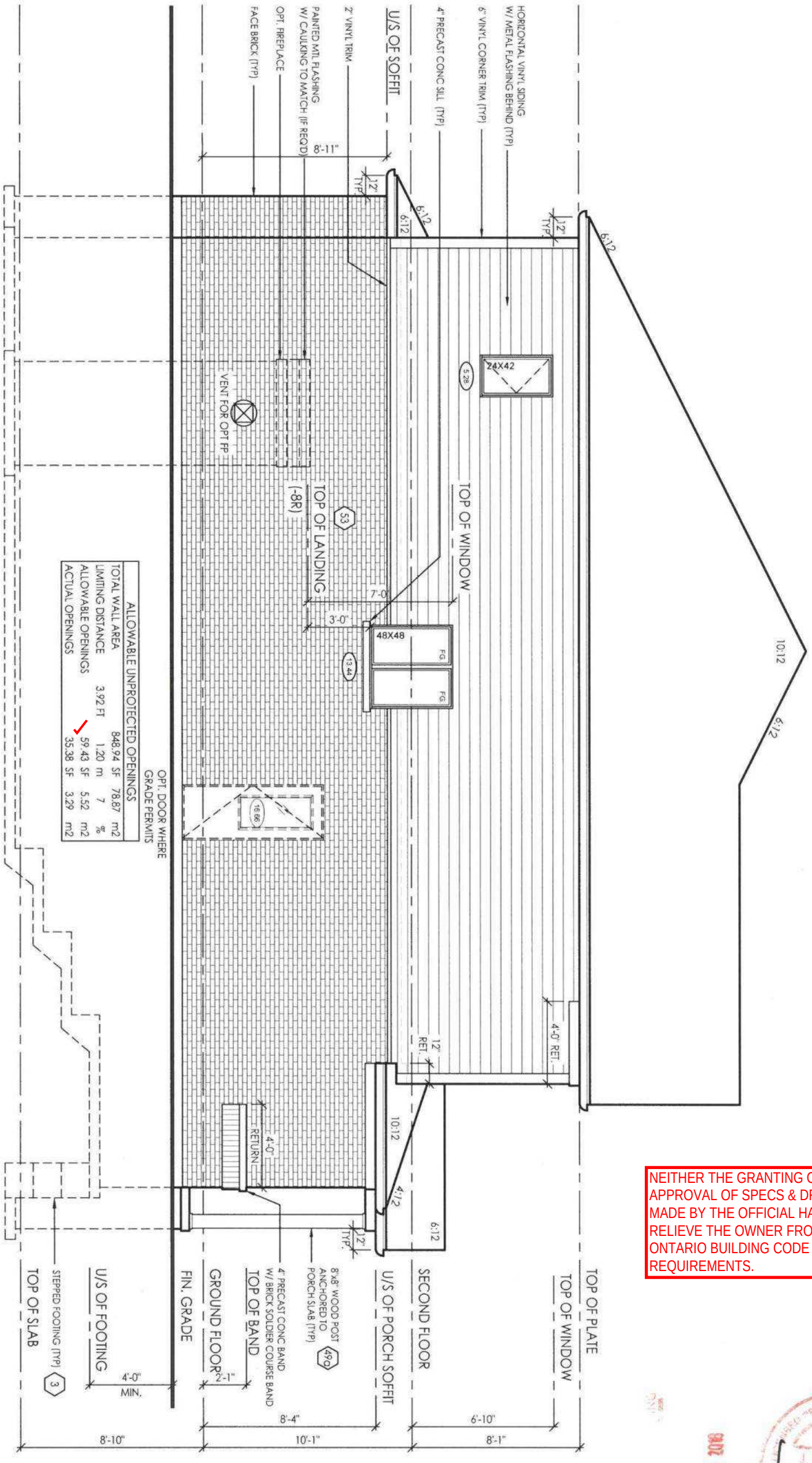
LEFT SIDE ELEVATION 'A'



ALLOWABLE UNPROTECTED OPENINGS			
TOTAL WALL AREA	848.94	SF	78.87 m2
LIMITING DISTANCE	3.92 FT	1.20 m	7 %
ALLOWABLE OPENINGS		59.43 SF	5.52 m2
ACTUAL OPENINGS		35.38 SF	3.29 m2

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CONSTRUCTION NOTES:

COMPLIANCE PACKAGE A1 - OBC 2012 - 2017 ENACTMENT

(UNLESS OTHERWISE NOTED)
-ALL CONSTRUCTION TO CONFORM TO THE ONTARIO BUILDING CODE (O.B.C.) AND ALL OTHER CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.
-ALL DIMENSIONS GIVEN FIRST IN IMPERIAL FOLLOWED BY METRIC.
-THERMAL RESISTANCE VALUES BASED ON ZONE 1

FOOTINGS / SLABS:

TYPICAL STRIP FOOTING:
O.B.C. 9.15.3.
-BASED ON 16'-1"(4.9m) MAX. SUPPORTED JOIST LENGTH
-MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS
-SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
-FTG. TO HAVE CONTINUOUS KEY
-FTG. SIZES MAY BE REDUCED FOR SOILS W/ GREATER BEARING CAPACITY (AS PER SOILS ENGINEERING REPORT)
-REFER TO WORKING DRAWINGS FOR SPECIFIC SIZES THAT MAY SUPERSEDE NOTES #1 & #2 FOR FOOTING SIZES

(1) **TYPICAL STRIP FOOTING: (EXTERIOR WALLS)**
O.B.C. 9.15.3.5.
-FTG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE

BRICK VENEER	-1 STOREY	- 13" X 4"	(330mm X 100mm)
	-2 STOREY	- 19" X 6"	(485mm X 155mm)
	-3 STOREY	- 26" X 9"	(660mm X 230mm)
SIDING-	-1 STOREY	- 10" X 4"	(255mm X 100mm)
	-2 STOREY	- 14" X 4"	(360mm X 100mm)
	-3 STOREY	- 18" X 5"	(460mm X 130mm)

(2) **TYPICAL STRIP FOOTING: (INTERIOR BEARING WALLS)**
O.B.C. 9.15.3.6.

-1 STOREY MASONRY	- 16" X 4"	(410mm X 100mm)
-1 STOREY STUD	- 12" X 4"	(305mm X 100mm)
-2 STOREY MASONRY	- 26" X 9"	(650mmX 230mm)
-2 STOREY STUD	- 18" X 5"	(450mm X 130mm)
-3 STOREY MASONRY	- 36" X 14"	(900mm X 360mm)
-3 STOREY STUD	- 24" X 8"	(600mm X 200mm)

(3) **STEP FOOTING:**
O.B.C. 9.15.3.9.
-23 5/8" (600mm) MAX. VERTICAL RISE & 23 5/8" (600mm) MIN. HORIZONTAL RUN.

(4) **DRAINAGE TILE OR PIPE:**
O.B.C. 9.14.3.
-4" (100mm) MIN. DIA. LAID ON UNDISTURBED OR WELL COMPACTED SOIL W/ TOP OF TILE OR PIPE TO BE BELOW BOTTOM OF FLR. SLAB.
-COVER TOP & SIDES OF TILE OR PIPE W/ 5 7/8" (150mm) OF CRUSHED STONE OR OTHER COURSE CLEAN GRANULAR MATERIAL.
-TILE SHALL DRAIN TO A SEWER, DRAINAGE DITCH, OR DRY WELL.

(5) **BASEMENT SLAB:**
O.B.C. 9.13. & 9.16.
-3" (75mm) CONCRETE SLAB
-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
-DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-4" (100mm) OF COURSE GRANULAR MATERIAL
-PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
-WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
-FLOOR DRAIN PER O.B.C.9.31.4.4.
-R10 (RSI 1.76) INSULATION AT PERIMETER OF SLAB WHERE GRADE IS WITHIN 23-1/2" (600mm) OF BASEMENT SLAB EDGE. INSULATION TO EXTEND TO NOT LESS THAN 23-1/2" (600mm) BELOW EXTERIOR GRADE LEVEL (OBC SB-12 - 3.1.1.7 (5))
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

(5a) **SLAB ON GROUND:**
-3" (75mm) CONCRETE SLAB - O.B.C. 9.16.4.3.
-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.
-DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.
-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-R10 (RSI 1.76) INSULATION UNDER ENTIRE SLAB WHERE THE ENTIRE SLAB IS WITHIN 23-1/2" (600mm) OF GRADE. (OBC SB-12 3.1.1.7.(6))
-4" (100mm) OF COURSE GRANULAR MATERIAL
-PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG.
-WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO O.B.C. 9.13.3.
-FLOOR DRAIN PER O.B.C.9.31.4.4.
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

(6) **GARAGE SLAB / EXTERIOR SLAB:**
-4"(100mm) CONCRETE SLAB
-4650psi (32MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS FOR UNREINFORCED CONC. & W/ 5-8% AIR ENTRAINMENT - O.B.C. 9.3.1.6.
-6" X 6" (W2.9 X W 2.9) WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB
-4" (100mm) OF COURSE GRANULAR MATERIAL
-ANY FILL PLACED UNDER SLAB , OTHER THAN COURSE CLEAN GRANULAR MATERIAL, SHALL BE COMPACTED.

(7) **PILASTERS:**
O.B.C. 9.15.5.3.
PILASTER
-CONCRETE NIB - 4" X 12" (100mm X 300mm)
-BLOCK NIB - 4" X 12" (100mm X 300mm) BONDED & TIED TO WALL AS PER O.B.C. 9.20.11.2. TOP 7 7/8" (200mm) SOLID.
OR
BEAM POCKET
-4" (100mm) INTO FDN. WALL W/ WIDTH TO MATCH BEAM SIZE.
-1/2" (13mm) SPACE AROUND WOOD BEAMS (O.B.C. 9.23.2.2.)
STRUCTURAL COLUMNS
-SIZES BASED ON COLUMN SUPPORTING BEAMS CARRYING LOADS FROM NOT MORE THAN 2 WOOD FRAME FLOORS, WHERE THE LENGTHS OF JOISTS CARRIED BY SUCH BEAMS DO NOT EXCEED 16'-1" (4.9m) AND THE LIVE LOAD ON ANY FLOOR DOES NOT EXCEED 50psf (2.4kPa).

(8) **STEEL PIPE COLUMN:**
O.B.C. 9.15.3.4. & 9.17.3.
-FIXED COLUMN
-MIN. 3 1/2" (90mm) DIA. W/ 3/16" (4.76mm) WALL THICKNESS
-FOR STEEL BEAMS, CLIPS @ TOP & MIN. 6" X 4" X 1/4" (152mmX 100mmx 6.35mm) STEEL BTM. PLATE
-FOR WOOD BEAMS, MIN. 4"X4"X1/4" (100mmX 100mm X 6.35mm) STEEL TOP & BTM. PLATES, OR TOP PLATE TO EXTEND MIN. WIDTH OF BEAM
-ADJUSTABLE COLUMNS TO CONFORM TO CAN//CGSB-7.2-M WHERE IMPOSED LOAD DOES NOT EXCEED 36 KN (O.B.C. 9.17.3.4.)

COL. SPACING:	FTG SIZE:
2 STOREY	
-MAX. 9'-10" (2997mm)	- 34" X 34" X 16" - (860mmX 860mmX 400mm)
-MAX. 16'-0" (4880mm)	- 44" X 44" X 21" - (1120mmX 1120mmX 530mm)
3 STOREY	
-MAX. 9'-10" (2997mm)	- 40" X 40" X 19" - (1010mmX 1010mmX 480mm)
-MAX. 16'-0" (4880mm)	- 51" X 51" X 24" - (1295mmX 1295mmX 610mm)

-WHERE COL. SITS ON FDN. WALL, USE 4" X 8" X 5/8" (100mmX 200mmX 16mm) STEEL PLATE WITH 2-5/8" (16mm) ANCHOR BOLTS

(9) **WOOD COLUMN:**
OBC 9.17.4.1 , 9.17.4.2, & 9.17.4.3.
-5 ½" x 5 ½" (140mm x 140mm) SOLID WOOD COLUMN - OR
-3-2"x6" (38mm x 140mm) BUILT UP COLUMN NAILED TOGETHER W/ 3" (76mm) NAILS SPACED NOT MORE THAN 12" (300mm) APART OR BOLTED TOGETHER W/ 3/8"(9.52mm) DIA BOLTS SPACED AT 18" (450mm) O.C.
-WRAP COLUMN BASE W/ 6 MIL POLY
-COLUMN TO SIT DIRECTLY ON CONC PAD (NOT ON CONC SLAB)
-25"x25"x12" (640mm x 640mm x 300mm) CONC PAD (1 FLOOR SUPPORTED W/ 9'-10" COL SPACING)
-34"x34"x14" (860mm x 860mm x 360mm) CONC PAD (2 FLOORS SUPPORTED W/ 9'-10" COL SPACING)

(10) **BLOCK PARTY WALL BEAM END BEARING: (WOOD BEAM / GIRDER TRUSSES)**
-2"X8"X12" LEDGER BOARD FASTENED W/ 2/ 1/2" ANCHOR BOLTS @ 4" O.C.
-WHERE WOOD BEAMS BEAR ON FIREWALLS USE GENERAL NOTE 11 WHERE REQUIRED TO OBTAIN 5" SEPARATION DISTANCE BETWEEN ADJACENT BEAMS

(11) **BLOCK PARTY WALL BEAM END BEARING: (STEEL BEAM)**
-12"X11"X 5/8" STL. PLATE ON TOP OF SOLID CONCRETE BLOCK WITH 2- 1/2"Ø x8" ANCHOR BOLTS.

WALL ASSEMBLIES:

(14) **FOUNDATION WALL:**
O.B.C. 9.15.4.2.
-FOR WALLS NOT EXCEEDING 8'-2" (2500mm) IN LATERALLY SUPPORTED HEIGHT.
-8" (200mm) SOLID 2200psi (15MPa) CONCRETE
-MAX. UNSUPPORTED HEIGHT OF 3'-11" (1200mm) & MAX. SUPPORTED HEIGHT OF 7'-0" (2150mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
-FOR WALLS NOT EXCEEDING 9'-0" (2750mm) IN LATERALLY SUPPORTED HEIGHT.
-10" (250mm) SOLID 2200psi (15MPa) CONCRETE
-MAX. UNSUPPORTED HEIGHT OF 4'-7" (1400mm) & MAX. SUPPORTED HEIGHT OF 8'-6" (2600mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR.
-LATERAL SUPPORT PROVIDED BY ANCHORED SILL PLATE TO JOISTS.
-FOR CONDITIONS EXCEEDING THESE MAXIMUMS AN ALTERNATIVE IN CONFORMANCE TO O.B.C.- 1.9.15.4.2.A SHALL BE USED OR IT SHALL BE DESIGNED UNDER O.B.C.- PART 4
-WALL SHALL EXTEND A MIN. 5 7/8" (150mm) ABOVE GRADE
-INSULATE W/ R20 (RSI 3.52) CONTINUOUS INSULATION FROM UNDERSIDE OF SUBFLOOR TO NOT MORE THAN 8" (200mm) ABOVE FINISHED FLOOR OF BASEMENT (ZONE 1 OBC SB-12 1.3.1.1.2.A.)
- ALTERNATE INSULATION METHOD: 2" (51mm) R10 (RSI 1.76)RIGID INSULATION W/ 2"x4"(38mm X 89mm) WOOD STUD W/ R12 (RSI 2.11) BATT INSULATION
-BACK FILL W/ NON-FROST SUSCEPTIBLE SOIL
REDUCTION OF THICKNESS:
O.B.C. 9.15.4.7.
-WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO ALLOW MASONRY FACING, THE MIN. REDUCED THICKNESS SHALL NOT BE LESS THAN 3-1/2" (90mm) THICK.
-TIE TO FACING MATERIAL WITH METAL TIES SPACED MAX. @ 7 7/8" (200mm) VERTICALLY O.C. & 2'-11" (900mm) HORIZONTALLY.
-FILL SPACE BETWEEN WALL AND FACING SOLID W/ MORTAR
-WHERE WALL IS REDUCED FOR JOISTS, THE REDUCED THICKNESS SHALL BE MAX. 13-3/4" (350mm) HIGH & MIN. 3-1/2" (90mm) THICK

DAMPPROOFING & WATERPROOFING:
-DAMPPROOF THE EXTERIOR FACE OF WALL BELOW GRADE AS PER O.B.C. 9.13.2.
-WHERE INSULATION EXTENDS TO MORE THAN 2'-11" (900mm) BELOW GRADE, A FDN. WALL DRAINAGE LAYER SHALL BE PROVIDED IN CONFORMANCE TO O.B.C. 9.14.2.1.(2) (3) (4)
-FINISHED BASEMENTS SHALL HAVE INTERIOR DAMPPROOFING EXTENDING FROM SLAB TO GRADE LEVEL & SHALL CONFORM TO O.B.C. 9.13.3.3.(3)
-WHERE HYDROSTATIC PRESSURE OCCURS, FDN. WALLS SHALL BE WATERPROOFED AS PER O.B.C. 9.13.3.
-WALLS THAT ARE WATERPROOFED DO NOT REQUIRE DAMPPROOFING.

(14a) **FOUNDATION WALLS @ UNSUPPORTED OPENINGS:**
-2-20M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING)
-3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING)
-4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)
-BARS STACKED VERTICALLY AT INTERIOR FACE APPROX 4" TO 6" APART.
-BARS TO HAVE MIN. 2" (50mm) CONCRETE COVER
-BARS TO EXTEND 2'-0" (600mm) BEYOND BOTH SIDES OF OPENING.

(15) **FRAME WALL CONSTRUCTION:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
-2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4..
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:
-REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
-REPLACE 1/2" (12.7mm) INTERIOR GYPSUM BOARD WITH 1/2" (12.7mm) TYPE 'X' GYPSUM BOARD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):
-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
OR
-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

(15a) **ALTERNATE FRAME WALL CONSTRUCTION:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)
-BRACE W/ CONT. 16 GAUGE STEEL 'T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS.
-R14 (RSI 2.46) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD.
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

(15b) **FRAME WALL CONSTRUCTION @ GARAGE:**
O.B.C. 9.23.
-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):
-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).
OR
-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING ON EXTERIOR SIDE OF RIGID INSULATION

(16) **BRICK VENEER CONSTRUCTION:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-REPLACE R22 (RSI 3.87) INSULATION WITH R22 (RSI 3.87) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

(16a) **ALTERNATE BRICK VENEER CONSTRUCTION:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS
-BRACE W/ CONT. 16 GAUGE STEEL 'T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR
-CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL
-R14 (RSI 2.46) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):
O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

(16b) **BRICK VENEER CONSTRUCTION @ GARAGE:**
O.B.C. 9.23.
-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. HEIGHT
-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING
-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER OPENINGS
-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2))
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER
-1" (25mm) AIR SPACE
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C.
-1/2" (12.7mm) GYPSUM BOARD
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

◆ *CLIENT SPECIFIC REVISIONS*
ONTARIO REGULATION 332/12 OBC. AMMENDMENT O. REG. 139/17 JAN. 1, 2018

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE:

SIGNATURE:

client: Tice River Homes
location: Ayr
project: Legacy
marketing name:

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	20-JUL-18	BU	JM					
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM					
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM					

RN design
Imagine • Inspire • Create

model: 36-01
scale: 3/16" = 1'0"
project #: 17052
page: D1

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:
-ADD R15 (RSI 2.64) ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.
-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

(17) **INTERIOR STUD WALLS:**

O.B.C. T.9.23.10.1.
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/
- DOUBLE 2" X 4" OR 2" X 6" TOP PLATES AND SINGLE BOTTOM PLATE
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.

(18) **BEARING STUD WALL (BASEMENT):**

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/
- DBL. 2" X 4" OR 2" X 6" TOP PLATE.
- 2" X 4" OR 2" X 6" BOTTOM PLATE ON DAMPPROOFING MATERIAL.
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C.
-FOOTING AS PER GENERAL NOTE #2 W/ 4" CONC. CURB

(19) **PARTY WALL - BLOCK:**

O.B.C. SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-SPACE BETWEEN TOP OF WALL & ROOF DECK SHALL BE TIGHTLY FILLED W/ MINERAL WOOL OR NONCOMBUSTIBLE MATERIAL & CAULKED TO PREVENT SMOKE PASSAGE
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. BOTH SIDES
-ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY.
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-STAGGER JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1. SB-2
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)

(19a) **PARTY WALL - BLOCK (AGAINST GARAGE):**

O.B.C. SB-3 WALL = B5c (STC = 51, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS
-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-2" X 6" (38mmX 140mm) WOOD STRAPPING @ 16" (400mm) O.C.
-R22 (RSI 3.52) RIGID INSULATION
-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)
-1/2" (12.7mm) GYPSUM BOARD @ WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT

(19b) **FIREWALL:**

O.B.C. 9.10.11. & 3.1.10. & SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
- ONE FIREWALL IS REQUIRED FOR EVERY 6460 S.F. (600 SQ.M) OF BUILDING AREA, O.B.C. T.3.2.2.47.
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. ON BOTH SIDES OF WALL
-SOUND ABSORPTIVE MATERIAL EACH SIDE FILLING 90% OF THE CAVITY
-7 1/2" (190mm) CONC. BLOCK, MIN. 2 HR. FIRE-RESISTANT RATING
-EVERY FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS
-STAGGER JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1 SB-2
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
-PROTRUDE PAST FASCIA @ EAVES W/ BRICK CORBELLING
-EXTEND 5 7/8" (150mm) ABOVE ROOF SURFACES & HAVE ALUMINUM CAP W/ THROUGH WALL FLASHING PER O.B.C. 3.1.10.4.(1)
-WHERE THE DIFFERENCE IN HEIGHT BETWEEN ADJACENT ROOFS IS GREATER THAN 9'10" (3m), WALL NEED NOT EXTEND PAST UPPER ROOF SURFACE PER O.B.C. 3.1.10.4.(2)

(20) **PARTY WALL - FOUNDATION:**

O.B.C. 9.15.4.2.
-7 7/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS
-FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2

(21) **PARTY WALL - WOOD STUD:**

O.B.C. SB-3 WALL = W13a (STC = 57, FIRE = 1 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK
-2 ROWS 2"X4"(38mmX 89mm) STUDS @ 16"(400mm) O.C. W/ SEPARATE 2" X 4" (38mmX 89mm) BOTTOM PLATE & SEPARATE DOUBLE 2" X 4" (38mmX 89mm) TOP PLATES
-SOUND ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE CAVITY.
-5/8" (16mm) TYPE 'X' GYPSUM BOARD BOTH SIDES W/ JOINTS TAPED & FILLED.
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. =
-FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE. 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.
- IF 2"x6" STUDS ARE USED AT STAIR OPENING CONTINUE TO USE ON REMAINING FLOORS AT THE STAIR OPENING AT 16" O.C.

(22) **GARAGE WALL & CEILING:**

O.B.C. 9.10.9.16.(3)
-1/2" (12.7mm) GYPSUM BOARD ON BOTH SIDES OF WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT
-R22 (RSI 3.87) INSULATION IN WALLS,
-R31 (RSI 5.41) INSULATION IN CEILINGS W/ FLOOR ABOVE
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.. FOR FLOOR ABOVE.
-INSULATION AROUND DUCTS AND PIPING NOT TO ENCROACH MIN. REQUIRED GARAGE AREA (REFER TO MUNICIPAL STANDARDS).
-1/2" (12.7mm) GYPSUM BOARD
-ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH 4 - 3 1/4" (82mm) TOE NAILS
-BOTTOM PLATES ARE FASTENED TO FLOOR JOISTS, BLOCKING OR RIM JOIST WITH 3 1/4" (82mm) NAILS AT 7 7/8" (200mm) O.C.

(22a) **WALLS ADJACENT TO ATTIC SPACE:**

-1/2" (12.7mm) GYPSUM BOARD
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C.
-R22 (RSI 3.87) INSULATION
-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6mm) PLYWOOD SHEATHING ON ATTIC SIDE.
-ATTIC ACCESS TO BE PROVIDED AS PER O.B.C. 9.19.2.1.

(23) **DOUBLE VOLUME WALLS:**

O.B.C. 9.23.10.1.
-3/8" (9.5mm) PLYWOOD, OSB OR WATERBOARD SHEATHING
-REFER TO PLAN FOR STUD SPECIFICATION
-STUDS FASTENED AT TOP & BOTTOM WITH 3/ 3-1/4" (82mm) TOE NAILS
-DOUBLE TOP PLATES FASTENED TOGETHER WITH 3" (76mm) AT 7 7/8" (200mm) O.C.
-SOLID BRIDGING AT 3'-11" (1200mm) O.C.
-MIN. R22 (RSI 3.87) INSULATION (ZONE 1 OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.9.

◆ *CLIENT SPECIFIC REVISIONS*

(24) **EXPOSED FLOOR:**

-FLOOR AS PER NOTE # 28
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4.
-R31 (RSI 5.46) INSULATION
-VENTED ALUMINUM SOFFIT

(24a) **SUNKEN FINISHED AREAS:**

-USE SOLID BUILT-UP WOOD BEARING POST TO SUPPORT SUNKEN AREA AT FOUNDATION WALLS. EXTEND FOOTINGS TO SUPPORT POSTS.
- WHERE GRADING CONDITIONS WILL ALLOW, CHECK FOUNDATION WALLS INSTEAD OF USING BEARING POSTS.
-FLOOR STRUCTURE AS PER NOTE # 28.

(25) **DOUBLE MASONRY WYTHE WALL:**

O.B.C. 9.20.8.2.
-3 1/2" MASONRY VENEER ON 2" MORTAR JOINT ON 3 1/2" MASONRY VENEER
-WYTHES TO BE TIED W/ METAL TIES INSTALLED AS PER O.B.C. 9.20.9.4.
SILL PLATE REQUIRED FOR ROOF AND CEILING FRAMING MEMBERS
-6" SILL W/ 2" BEARING ON EACH SIDE & ANCHOR BOLTS @ 4'-0" O.C.
NOTE: MASONRY TO BE SOLID & MORTAR JOINT FILLED SOLID FOR FLOOR JOISTS BEARING ON WYTHES. FLOOR JOISTS ARE NOT TO PROJECT INTO CAVITY AREA.

(25a) **CORBEL MASONRY VENEER:**

-MASONRY VENEER TO BE CORBELLED AS PER O.B.C. 9.20.12.3.(1)

FLOOR ASSEMBLIES:

(26) **SILL PLATE:**

O.B.C. 9.23.7.
-2" X 4" (38mm X 89mm) PLATE
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C. FASTENED TO PLATE W/ NUTS AND WASHERS & SHALL BE EMBEDDED NOT LESS THAN 4" (100mm) INTO FOUNDATION WALL.
-SILL PLATE TO BE CAULKED, OR PLACED ON A LAYER NOT LESS THAN 1" (25mm) THICK BEFORE COMPRESSING, OR FOAM GASKET, OR PLACED ON FULL BED OF MORTAR.

(27) **BRIDGING & STRAPPING:**

O.B.C. 9.23.9.4.
a) STRAPPING
-1" X 3" (19mmX 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C.
-FASTENED TO SILL OR HEADER @ ENDS
b) BRIDGING
-1" X 3" (19mmX 64mm) OR 2" X 2" (38mmX 38mm) CROSS BRIDGING @ MAX. 6'-11" (2100mm) O.C.
c) BRIDGING & STRAPPING
- a) & b) USED TOGETHER OR
-1 1/2" (38mm) SOLID BLOCKING @ MAX. 6'-11" (2100mm) O.C. USED WITH STRAPPING (a)
d) FURRING OR PANEL TYPE CEILING
-STRAPPING NOT REQUIRED IF FURRING STRIPS OR PANEL TYPE CEILING FINISH IS ATTACHED DIRECTLY TO JOISTS.

(28) **FLOOR ASSEMBLY:**

O.B.C. 9.23.14.3. 9.23.14.4
-5/8" (15.9mm) WAFERBOARD (R-1 GRADE) OR EQUIVALENT
-FLOOR JOISTS AS PER FLOOR PLANS

(29) **PORCH SLAB:**

O.B.C. 9.39.1.4.
-4 7/8" (125mm) 4650 psi (32 MPa) CONC. SLAB WITH 5 TO 8% AIR ENTRAINMENT
-REINFORCE WITH 10M BARS @ 7 7/8" (200mm) EACH WAY
-1 1/4" (30mm) CLEAR COVER FROM THE BOTTOM OF THE SLAB
-3" (75mm) END BEARING ON FOUNDATION WALL
-23 5/8" (600mm) X 23 5/8" (600mm) 10M DOWELS @ 23 5/8" (600mm) O.C.
-IF A COLD CELLAR IS LOCATED BELOW THE SLAB, SUPPORT ON FOUNDATION WALLS NOT TO EXCEED 8'-2"

(30) **EXTERIOR BALCONY ASSEMBLY:**

-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING
-2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. LAYING UNFASTENED ON SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT ON 5/8" (15.9mm) EXTERIOR GRADE PLYWOOD SHEATHING ON 2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. DIRECTLY ON 2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)
- EXTERIOR GUARD AS PER #36a
- SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER
REQUIRED FOR OVER HEATED SPACES:
-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C.-T.9.29.5.3.)

(30a) **EXTERIOR FLAT ROOF ASSEMBLY:**

-SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
-1/4" EXTERIOR GRADE WOOD PANEL TYPE UNDERLAY TAPERED PURLINS SLOPED MIN. 2% TO ROOF SCUPPER.
-3/8" EXTERIOR GRADE PLYWOOD SHEATHING ON
-2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)
REQUIRED FOR OVER HEATED SPACES:
-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

ROOF ASSEMBLIES

(31) **TYPICAL ROOF:**

O.B.C. 9.26.
-NO. 210 (30. 5KG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS
-APPROVED WOOD TRUSSES @ 24" (600mm) O.C. (REFER TO MANUFACTURER'S LAYOUT)
-TRUSS BRACING AS PER TRUSS MANUFACTURER
-EAVESTROUGH ON PREFINISHED FASCIA AND VENTED SOFFIT (VINYL OR ALUMINUM)
-ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH, 50% AT SOFFIT.

(32) **CEILING:**

-R60 (RSI 10.56) INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR
-5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

(32a) **VAULTED OR CATHEDRAL CEILING:**

O.B.C. 9.26. & TABLE A4
-NO. 210 (30. 5KG/m2) ASPHALT SHINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES OR WHERE ROOF SLOPES ARE 8:12 OR GREATER PER O.B.C. 9.26.5.1.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)
-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS.
-2"x8" (38mm x 184mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 13'-3" (4050mm) OR
-2"x10" (38mm x 235mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 17'-0" (5180mm)
-R31 (RSI 5.46) INSULATION
-MIN. 3" CLEARANCE FROM U/S OF ROOF SHEATHING TO INSULATION
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.4.
-1/2" (12.7mm) GYPSUM BOARD

(33) **CONVENTIONAL FRAMING:**

O.B.C. TABLE A6 OR A7
-2" X 6" (38mm X 140mm) RAFTERS @ 16" (400mm) O.C. MAX. SPAN 12'-9" (3890mm)
-2"X4" (38mm X 89mm) COLLAR TIES AT MIDSPANS
-CEILING JOISTS TO BE 2" X 6" (38mmX 140mm) @ 16" (400mm) O.C. UNLESS OTHERWISE NOTED.
-HIP & VALLEY RAFTERS TO BE MIN. 2" (50mm) LARGER THAN COMMON RAFTERS & MIN. 1 1/2" (38mm) THICK.

(34) **ATTIC ACCESS HATCH:**

OBC 9.19.2.1. & SB-12 3.1.1.8.(1)
-19 3/4" X 27 1/2" (500mm X 700mm) ATTIC HATCH WITH WEATHERSTRIPPING & BACKED W/ R20 (RSI 3.52) INSULATION.

GENERAL:

(35) **PRIVATE STAIRS:**

O.B.C. 9.8.4.

-MAX. RISE	= 7-7/8"	(200mm)
-MIN. RUN	= 8-1/4"	(210mm)
-MIN. TREAD	= 9-1/4"	(235mm)
-MAX. NOSING	= 1"	(25mm)
-MIN. HEADROOM	= 6'-5"	(1950mm)
-MIN. WIDTH (BETWEEN WALL FACES)	= 2'-10"	(860mm)
-MIN. WIDTH (EXIT STAIRS, BETWEEN GUARDS)	= 2'-11"	(900mm)
ANGLED TREADS:		
-MIN. RUN	= 5 7/8"	(150mm)
-MIN. AVG. RUN	= 7 7/8"	(200mm)

-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-EXTERIOR CONC. STEPS TO HAVE MIN. 9 1/4" (235mm) TREAD & MAX. 7 7/8" (200mm) RISE
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

HANDRAILS:

O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)
-ONE HANDRAIL IS REQUIRED ON CURVED STAIRS OF ANY WIDTH WITHIN DWELLING UNITS
-HANDRAILS ARE TO BE CONTINUOUS EXCEPT WHERE INTERRUPTED BY DOOR WAYS, LANDINGS OR POSTS AT CHANGES IN DIRECTION

HEIGHT:

O.B.C. 9.8.7.4
- 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
- 3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

PROJECTIONS:

O.B.C. 9.8.7.6
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR

(35a) **PUBLIC STAIRS:**

O.B.C. 9.8.4.

-MAX. RISE	= 7-3/32"	(180mm)
-MIN. RUN	= 11"	(280mm)
-MIN. TREAD	= 11"	(280mm)
-MAX. NOSING	= 1"	(25mm)
-MIN. HEADROOM	= 6'-9"	(2050mm)
-MIN. WIDTH (EXIT STAIRS, BETWEEN GUARDS)	= 2'-11"	(900mm)

-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

HANDRAILS:

O.B.C. 9.8.7
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)
-TWO HANDRAILS ARE REQUIRED ON CURVED STAIRS OF ANY WIDTH
-HANDRAILS ARE TO BE CONTINUOUS INCLUDING AT LANDINGS EXCEPT WHERE INTERRUPTED BY DOOR WAYS OR NEWEL POSTS AT CHANGES IN DIRECTION

HEIGHT:

O.B.C. 9.8.7.4
- 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.
- 3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS)
- MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

PROJECTIONS:

O.B.C. 9.8.7.6
- HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED WIDTH OF THE STAIR

TERMINATION:

O.B.C. 9.8.7.3
- ONE HAND RAIL SHALL EXTEND HORIZONTALLY NOT LESS THAN 11 3/4" (300mm) BEYOND THE TOP & BOTTOM OF EACH STAIR

FINISH:

O.B.C. 9.8.9.6
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE FROM DEFECTS PER OBC 9.8.9.6.(4)
- STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DISTINCTIVE VISUAL PATTERN TO DEMARCATE THE LEADING EDGE OF THE TREADS, LANDING AND THE BEGINNING AND END OF A RAMP.

(36) **INTERIOR GUARDS:**

O.B.C. SB-7 & 9.8.8.3.
-GUARDS TO BE 3'-6" (1070mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-INCLUDES WINDOWS OVER STAIRS, RAMPS AND LANDINGS
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH

(36a) **EXTERIOR GUARDS:**

O.B.C. SB-7 & 9.8.8.3.
-GUARDS ARE REQUIRED WHEN WALKING SURFACE TO GRADE IS GREATER THAN 23 5/8" (600mm).
-GUARDS TO BE 3'-6" (1070mm)
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH
-FOR DWELLING UNITS GUARDS TO BE 3'-6" (1070mm) HIGH WHERE WALKING SURFACE IS MORE THAN 5'-11" (1800mm) ABOVE ADJACENT GRADE.
-PICKETS TO HAVE 4" (100mm) MAX. SPACING
-PROVIDE MID-SPAN POSTS AS PER SB-7.
-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

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I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.**UNDER DIVISION C,PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE:

SIGNATURE:

client: Tico River Homes
location: Ayr
project: Legacy
marketing name:

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	23-FEB-18	BU	JM					
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM					
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM					

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model: 36-01
scale: 3/16" = 1'0"
project #: 17052
page: D2

(36b) **EXTERIOR GUARDS @ JULIET BALCONY:**
-FOR RAILING SPANNING MAXIMUM OF 6'-0".
-PROVIDE PREFIN. METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C. APPENDIX A-9.8.8.5.
-GUARDS TO BE 3'-6" (1070mm)
-FOR DWELLING UNITS GUARDS TO BE 2'-11" (900mm) WHERE FLOOR TO GRADE DIFFERENCE IS LESS THAN 5'-11" (1800mm) AS PER O.B.C. 9.8.8.2. OR
-FOR DWELLING UNITS GUARDS TO BE 3'-6" WHERE FLOOR TO GRADE DIFFERENCE IS 5'-11" (1800mm) OR GREATER AS PER O.B.C. 9.8.8.2.
-VERTICAL END RAILING ANCHORED TO CORNER DOUBLE STUDS USING 3 ROWS OF 3/8"Ø MIN. ANCHOR BOLTS EQUALLY SPACED WITH 3" MIN. EMBEDMENT TO STUDS.
-PROVIDE SAME ANCHOR BOLTS @ 36" O.C. FOR BASE PLATE CONNECTION.

(37) -LINEN CLOSET 4 SHELVES MIN. 1'-2" (350mm) DEEP

(38) -WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR, O.B.C.- 9.32.1.3.(3)

(39) -CAPPED DRYER VENT

(40) -1"X2" (19mmX38mm) BOTH SIDES OF STEEL.

(41) -WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESSURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE.

(42) -PRECAST CONC. STEP
-2 RISERS MAXIMUM PERMITTED TO BE LAID ON GROUND

(44) SMOKE ALARM, O.B.C.- 9.10.19.
-PROVIDE 1 ON EACH FLOOR INCLUDING BASEMENTS
-PROVIDE 1 IN EACH BEDROOM
-PROVIDE 1 IN EACH HALLWAY SERVICING BEDROOMS
- INSTALLED AT OR NEAR CEILING
-ALARMS TO BE CONNECTED IN CIRCUIT AND INTERCONNECTED SO ALL ALARMS WILL BE ACTIVATED IF ANY ONE OF THEM SOUNDS AND HAVE A VISUAL SIGNALLING COMPONENT
-ALARMS MUST BE HARDWIRED AND HAVE AN ALTERNATE POWER SOURCE THAT CAN POWER ALARM FOR 7 DAYS, FOLLOWED BY 4 MINUTES OF ALARM

(45) CARBON MONOXIDE ALARM (CMA), O.B.C.- 9.33.4.
-WHERE THERE IS A FUEL BURNING APPLIANCE A CMA SHALL BE PROVIDED ADJACENT TO EACH SLEEPING AREA.
-CMA TO BE WIRED IN CIRCUIT TO SOUND SMOKE ALARMS WHEN ACTIVATED.

(46) -MAIN DOOR TO BE OPERABLE FROM INSIDE W/OUT KEY
-PROVIDE A VIEWER WITH A VIEWING ANGLE OF NOT LESS THAN 160 DEG. UNLESS GLAZING IS PROVIDED IN DOOR OR A SIDELIGHT IS PRESENT.
-R4 (RSI 0.70) WHERE A STORM DOOR IS NOT PROVIDED

(47) -GARAGE MAN DOORS TO BE GAS PROOFED WITH SELF CLOSER, WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.15.
-R4 (RSI 0.70)

(48) -TRAVEL FROM A FLOOR LEVEL TO AN EXIT OR EGRESS DOOR SHALL BE LIMITED TO ONE FLOOR EXCEPT:
1) WHERE THAT FLOOR LEVEL HAS ACCESS TO A BALCONY
OR
2) WHERE THAT FLOOR LEVEL HAS A WINDOW PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 3'-3" (1000mm) IN HEIGHT AND 21 5/8" (550mm) IN WIDTH; SUCH WINDOW SHALL BE LOCATED SO THAT THE SILL IS NOT MORE THAN 3'-3" (1000mm) ABOVE FLOOR AND 23'-0" (7.0m) ABOVE ADJACENT GROUND LEVEL.

(49) **EXTERIOR COLUMN W/ MASONRY PIER:**
-MIN. 6"X6" (140mm X 140mm) WOOD POST ANCHORED TO PORCH SLAB W/ METAL SADDLE.
-TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS.
-14" X 14" MASONRY VENEER SURROUND W/ PRECAST CONCRETE CAP.
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
-SURROUND TO BE TIED W/ METAL TIES @ 16" (400mm) O.C. VERT. INSTALLED PER O.B.C. 9.20.9.4.
-3/4" AIR SPACE AROUND POST.
OR
-MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE.
-14" X 14" MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST CONCRETE CAP.
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" POST PROVIDED THAT THEY ARE IN CONFORMANCE WITH O.B.C. 9.17.4.

(49a) **EXTERIOR COLUMN:**
-MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO PORCH SLAB W/ METAL SADDLE
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" ABOVE PROVIDED THAT THEY ARE IN ACCORDANCE WITH O.B.C. 9.17.4.

(50) **COLD CELLARS:**
FOR COLD CELLARS PROVIDE THE FOLLOWING:
-VENTING AREA TO BE EQUIVALENT TO 0.2% OF COLD CELLAR AREA.
-COVER VENT W/ BUG SCREEN
-WALL MOUNTED LIGHT FIXTURE
-L1+L7 FOR DOOR OPENING
-2'-8" X 6'-8" EXTERIOR TYPE DOOR (MIN.R-4 RSI 0.7)
-INSULATE FULL HEIGHT OF INTERIOR BASEMENT WALL W/ MIN. R12 (RSI 2.11)

(51) **STUD WALL REINFORCEMENT:**
O.B.C. 9.5.2.3.
-WALL STUDS ADJACENT TO WATER CLOSETS & SHOWER BATH TUBS IN MAIN BATHROOM ARE TO BE REINFORCED TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS AS PER O.B.C. 3.8.3.8.(3)(a)&(c) & 3.8.3.13.(2)(f) & 3.8.3.13.(4)(c)
-GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.7.7.(2)

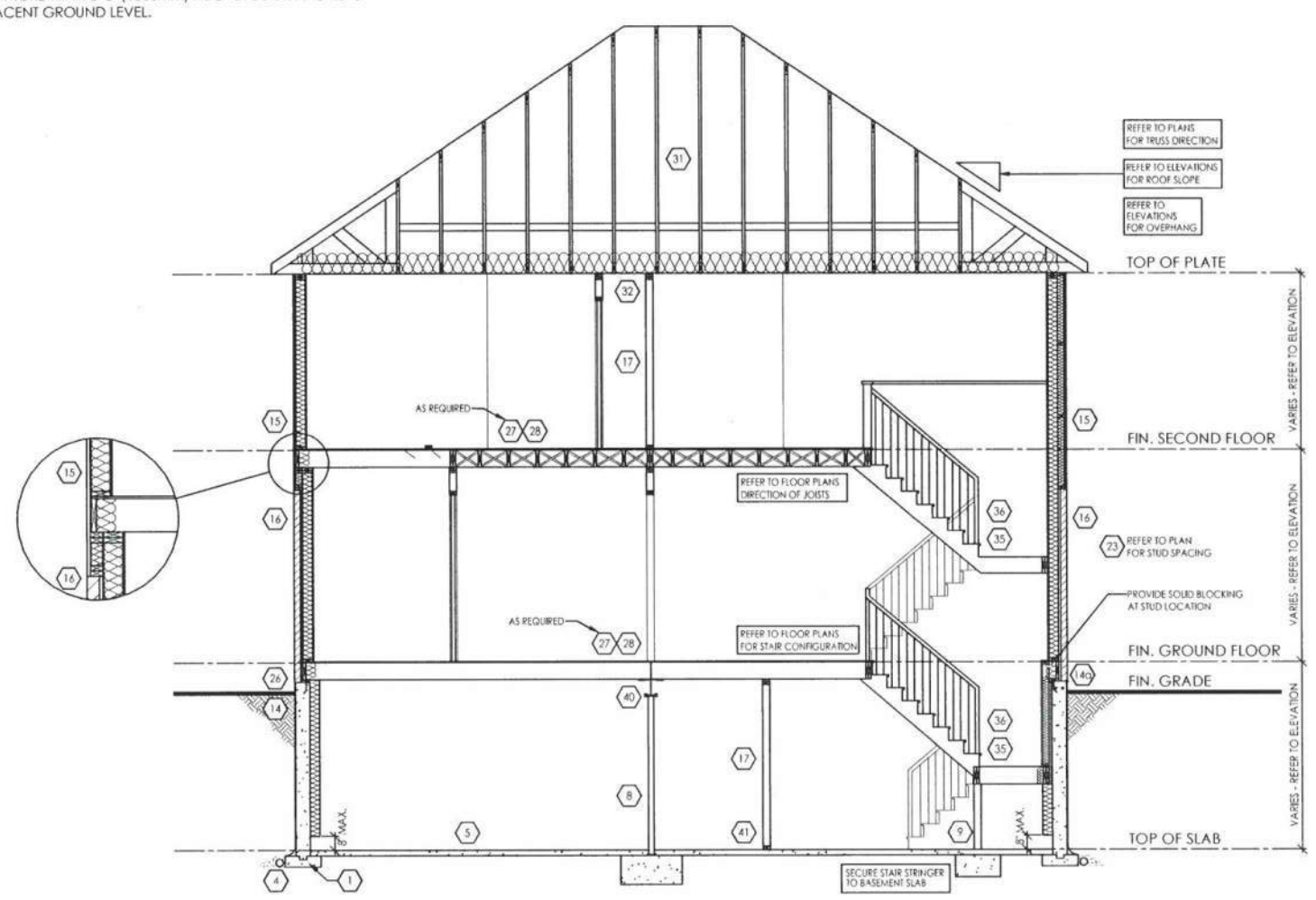
(52) **ELECTRICAL VEHICLE CHARGING REQUIREMENTS:**
- REFER TO OBC 9.34.4.1. FOR REQUIRMENTS (EFFECTIVE JANUARY 2018)

(53) **WINDOW GUARDS:**
@ STAIRS, LANDINGS & RAMPS - OBC 9.8.8.1.(8)
WINDOW SILL AT 3'-0" (900mm) OR GREATER DOES NOT REQUIRE GUARDS
@ FLOORS - OBC 9.8.8.1.(6)
WINDOWS LESS THAN 1'-7" (480mm) ABOVE FLOORS WHERE ADJACENT GRADE IS GREATER THAN 5'-11" (1800mm) REQUIRE A GUARD PER OBC 9.8.8.2.
- OR -
WINDOW TO BE NON-OPERABLE AND DESIGNED TO WITHSTAND LATERAL LOADS PER OBC 9.8.8.1.(8)(b)

FRAME CONSTRUCTION:
-ALL FRAMING LUMBER TO BE No.1 AND No. 2 SPF UNLESS NOTED OTHERWISE.
-ROOF LOADING IS BASED ON 1.5kPa SPECIFIED COMPOSITE SNOW AND RAIN LOADS.
-JOISTS TO HAVE MIN. 1-1/2" (38mm) END BEARING
-BEAMS TO HAVE MIN. 3-1/2" (89mm) END BEARING
-DOUBLE STUDS @ OPENINGS
-DOUBLE HEADER JOISTS AROUND FLOOR OPENINGS WHEN THEY ARE BETWEEN 3'-11" (1200mm) AND 10'-6" (3200mm)
-DOUBLE TRIMMER JOISTS WHEN HEADER JOIST LENGTH IS BETWEEN 2'-7" (800mm) AND 6'-7" (2000mm)
-DOUBLE JOISTS OR SOLID BLOCKING UNDER NON-LOAD BEARING PARALLEL PARTITIONS
-BEAMS TO BE PLACED UNDER LOADBEARING WALLS WHEN WALLS ARE PARALLEL TO FLOOR JOISTS
-BEAMS MAY BE A MAX. 24" (600mm) FROM LOADBEARING WALLS WHEN WALLS ARE PERPENDICULAR TO FLOOR JOISTS
-APPROVED METAL HANGERS TO BE USED FOR JOISTS AND BEAMS WHEN THEY FRAME INTO SIDES OF BEAMS, TRIMMERS AND HEADERS
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 15 3/4" (400mm) BEYOND SUPPORTS FOR 2" X 8" (38mm X 184mm)
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 23 5/8" (600mm) BEYOND SUPPORTS FOR 2" X 10" (38mm X 235mm) OR LARGER.

WINDOWS:
-WINDOWS TO BE SEALED TO THE AIR & VAPOR BARRIER
-WINDOWS THAT SEPARATE HEATED SPACE FROM UNHEATED SPACE SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 1.6 W/(m2.K) OR
-AN ENERGY RATING OF NOT LESS THAN 25 FOR WINDOWS
-BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL FRAME SHALL BE DOUBLE GLAZED WITH LOW-E COATING
-SKYLIGHTS SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 2.8 W/(m2.K)
-FOR GROSS GLAZED AREAS LESS THAN AND EQUAL TO 17%

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.



TYPICAL CROSS SECTION - 2 STOREY (SIDING & BRICK)
N.T.S.

◆ *CLIENT SPECIFIC REVISIONS*

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

SCHEDULES

DOORS (46) (47)

A	865x2030x45 (2'10"x6'8"x1-3/4")
B	815x2030x35 (2'8"x6'8"x1-3/8")
C	760x2030x35 (2'6"x6'8"x1-3/8")
D	710x2030x35 (2'4"x6'8"x1-3/8")
E	460x2030x35 (1'6"x6'8"x1-3/8")
F	610x2030x35 (2'0"x6'8"x1-3/8")
G	OVER SIZED EXTERIOR DOOR

STEEL BEAMS

ST1	W 6 X 15
ST2	W 6 X 20
ST3	W 8 X 18
ST4	W 8 X 21
ST5	W 8 X 24

WOOD BEAMS

WD1	3/ 2" X 8" SPR
WD2	4/ 2" X 8" SPR
WD3	5/ 2" X 8" SPR
WD4	3/ 2" X 10" SPR
WD5	4/ 2" X 10" SPR
WD6	5/ 2" X 10" SPR
WD7	3/ 2" X 12" SPR
WD8	4/ 2" X 12" SPR
WD9	5/ 2" X 12" SPR
WD10	2/ 1 3/4" X7 1/4" (2.0E) LVL
WD11	3/ 1 3/4" X7 1/4" (2.0E) LVL
WD12A	1/ 1 3/4" X9 1/2" (2.0E) LVL
WD12	2/ 1 3/4" X9 1/2" (2.0E) LVL
WD13	3/ 1 3/4" X9 1/2" (2.0E) LVL
WD14A	1/ 1 3/4" X11 7/8" (2.0E) LVL
WD14	2/ 1 3/4" X11 7/8" (2.0E) LVL
WD15	3/ 1 3/4" X11 7/8" (2.0E) LVL
WD16A	1/ 1 3/4" X14" (2.0E) LVL
WD16	2/ 1 3/4" X14" (2.0E) LVL
WD17	3/ 1 3/4" X14" (2.0E) LVL

LINTELS

L1	2/ 2" X 8" SPR	L9	4" X 3-1/2" X 1/4" L	L14	5-7/8" X 3-1/2" X 1/2" L
L3	2/ 2" X 10" SPR	L10	4-7/8" X 3-1/2" X 5/16" L	L15	5-7/8" X 4" X 1/2" L
L5	2/ 2" X 12" SPR	L11	4-7/8" X 3-1/2" X 3/8" L	L16	7-1/8" X 4" X 3/8" L
L7	3-1/2" X 3-1/2" X 1/4" L	L12	6" X 3-1/2" X 5/8" L	L17	7-1/8" X 4" X 1/2" L
L8	4-7/8" X 3-1/2" X 1/4" L	L13	5-7/8" X 3-1/2" X 3/8" L		

PLAN/ELEVATION LEGEND

- SMOKE ALARM (44)
- WATERPROOF DUPLEX OUTLET
- VENTS AND INTAKES
- HOSE BIB
- (38) EXHAUST FAN
- COLD CELLAR VENT (50)
- STOVE VENT
- FIRE PLACE VENT
- DRYER VENT
- CMA CARBON MONOXIDE ALARM (45)
- DJ DOUBLE JOIST
- PT PRESSURE TREATED LUMBER
- GT GIRDER TRUSS
- AFF ABOVE FINISHED FLOOR
- BBFM BEAM BY FLOOR MANUF.
- (FL) FLUSH
- (DR) DROPPED
- 'DO' REPEAT SAME JOIST SIZE
- U/S UNDER SIDE
- FG FIXED GLAZING
- GB GLASS BLOCK
- BG BLACK GLASS
- FD FLOOR DRAIN
- SOLID BEARING (TO BE SAME WIDTH AS SUPPORTED MEMBER)
- POINT LOAD
- FLAT ARCH
- 2 STORY WALL
- EXT. LIGHT FIXTURE (WALL MOUNTED)
- H HYDRO METER
- G GAS METER

I, JORGE MORENO DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN: 47245
FIRM BCIN: 26995
DATE:

SIGNATURE:

client: Tice River Homes
location: Ayr
project: Legacy
marketing name:

#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	23-FEB-18	BU	JM
2	REVISED PER TRUSS COORDINATION	23-APR-18	LO	JM
3	REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT	20-JUL-18	WU	JM

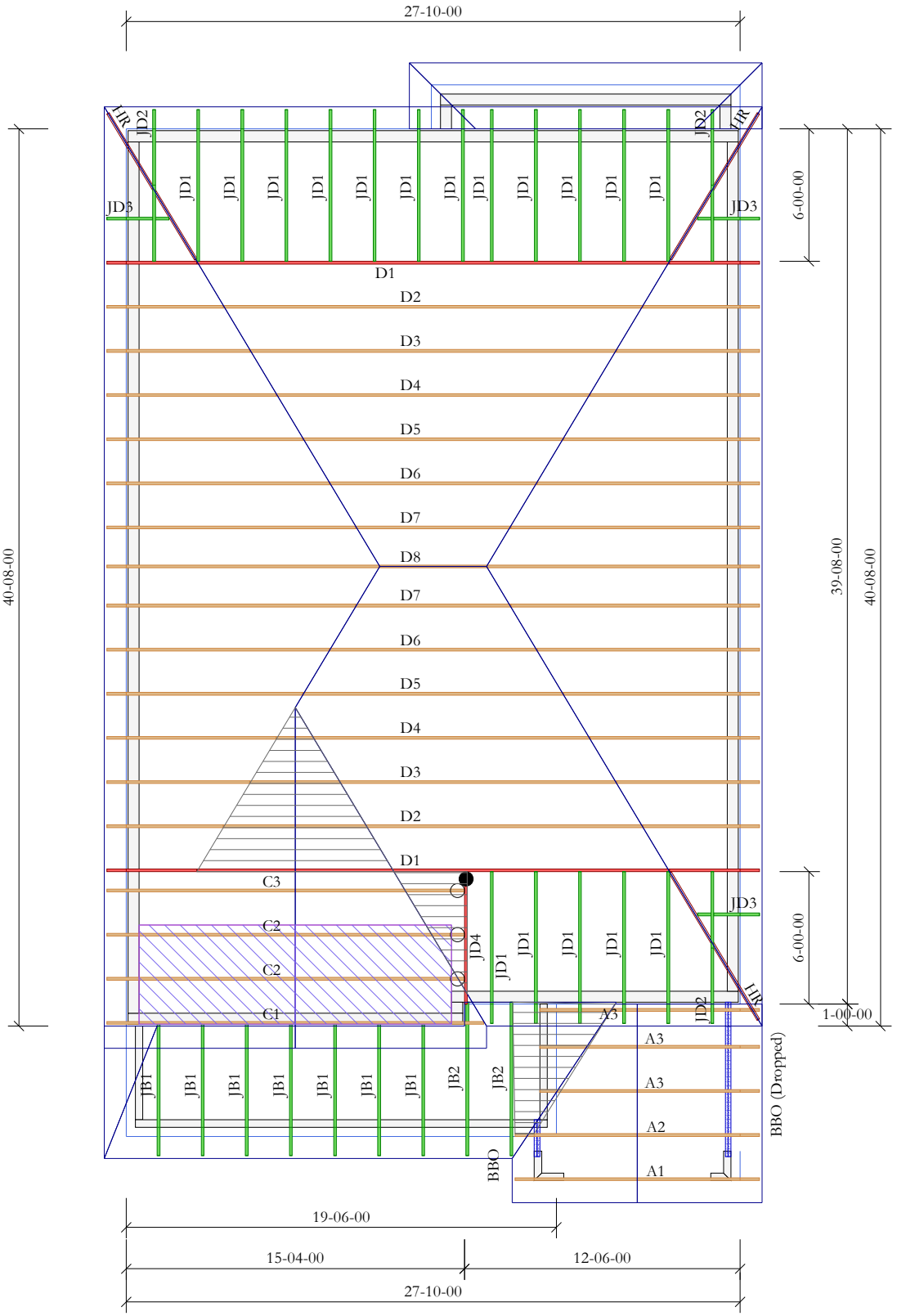
RN design
Imagine • Inspire • Create

model: 36-01
scale: 3/16" = 1'0"
project #: 17052

page: D3

NOTES:

- 6/12 & 10/12 pitch
- 12" Finished OH
- 0" Soffit Drop (Upper)
- 7 1/4" Soffit Drop (Garage)



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Hanger Schedule

○	JUS26	(3)
●	HUS26	(1)

-All conventional roof framing to comply with O.B.C. 2012.
-Roof rafters that meet or cross trusses below to be minimum 2x4 SPF#2 or better at minimum 24"o.c.
-Rafters to be installed with minimum 2x4 SPF#2 or better vertical post to the truss below at each intersection (24"o.c. typical).
-Vertical posts longer than 6' must be laterally braced at its midpoint.

JOB #: 91258 (permit)

WATFORD
ESTABLISHED 1972
Watford Roof Truss Ltd.
330 Front St.
Watford, Ontario
N0M 2S0
1-800-265-3470
Fax: 1-519-876-3200

CLIENT: Moffatt & Powell (Tillsonburg)
BUILDER: Tice River Homes
ADDRESS: Lot 3 Vincent Drive
CITY: Ayr

MODEL: 36-1 A
DATE: May 06 2019
DRAWN BY: SH
GROUND SNOW:

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	A1	1	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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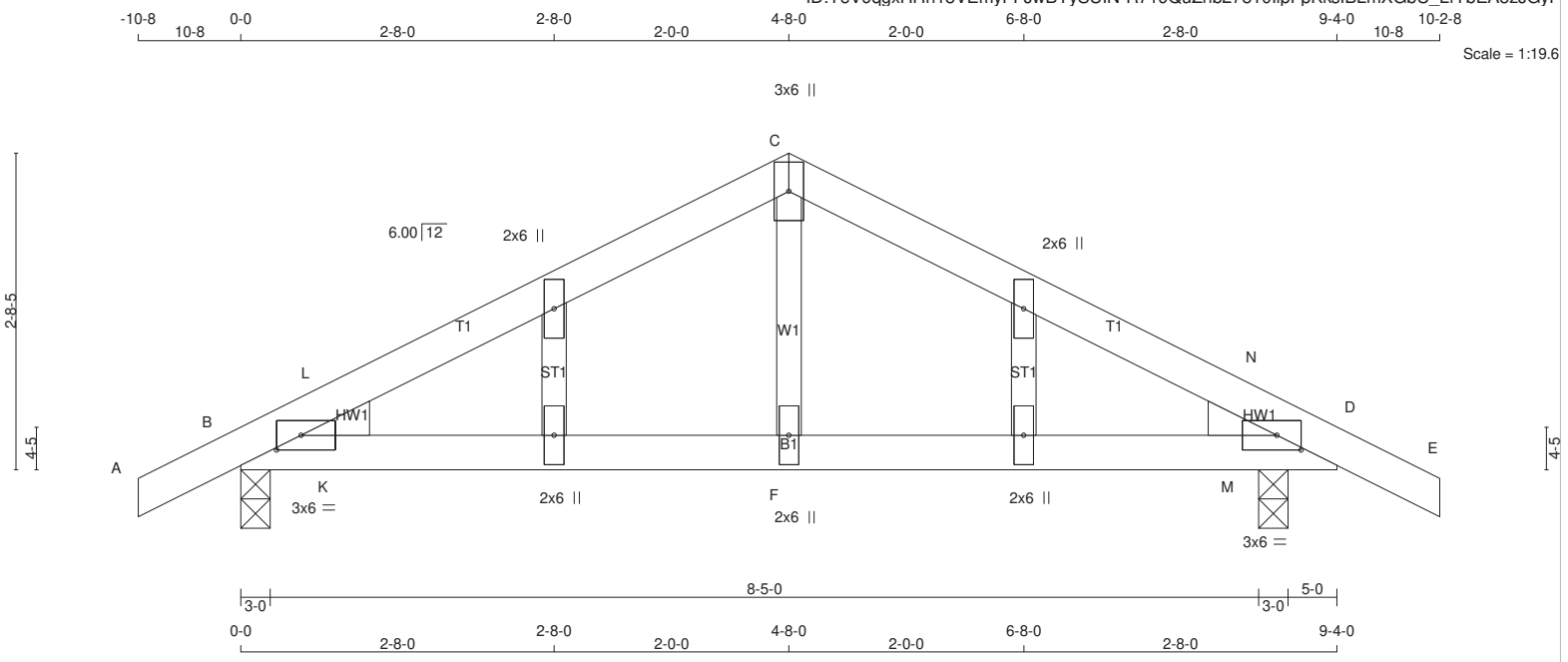

TOTAL WEIGHT = 30 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBH1-I	MT20	3.0	6.0	1.50	2.50
C	TTW+p	MT20	3.0	6.0		
D	TMBH1-I	MT20	3.0	6.0	1.50	2.50
F	BMW+w	MT20	2.0	6.0		
G, H, I, J						
G	NP+w	MT20	2.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
B	693	0	693	0	0	3-0	1-8	2x4 L
D	693	0	693	0	0	3-0	1-8	2x4 R

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	484	351 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0
D	484	351 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 21	-109.0	-109.0	0.07 (1)	10.00	F- C	0 / 234	0.05 (1)
B- L	-711 / 0	-109.0	-109.0	0.04 (1)	6.25	K- L	-262 / 0	0.00 (1)
L- C	-715 / 0	-109.0	-109.0	0.24 (1)	6.25	M- N	-262 / 0	0.00 (1)
C- N	-715 / 0	-109.0	-109.0	0.24 (1)	6.25			
N- D	-711 / 0	-109.0	-109.0	0.04 (1)	6.25			
D- E	0 / 21	-109.0	-109.0	0.07 (1)	10.00			
B- K	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
K- F	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
F- M	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
M- D	0 / 636	-17.5	-17.5	0.35 (1)	10.00			

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this seal is for this structural component only
Refer to FT2009

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.24/1.00 (C-L:1) , BC=0.35/1.00 (B-K:1) , WB=0.05/1.00 (C-F:1) , SSI=0.18/1.00 (B-K: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (D) (INPUT = 0.90)
JSI METAL= 0.18 (D) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	A2	1	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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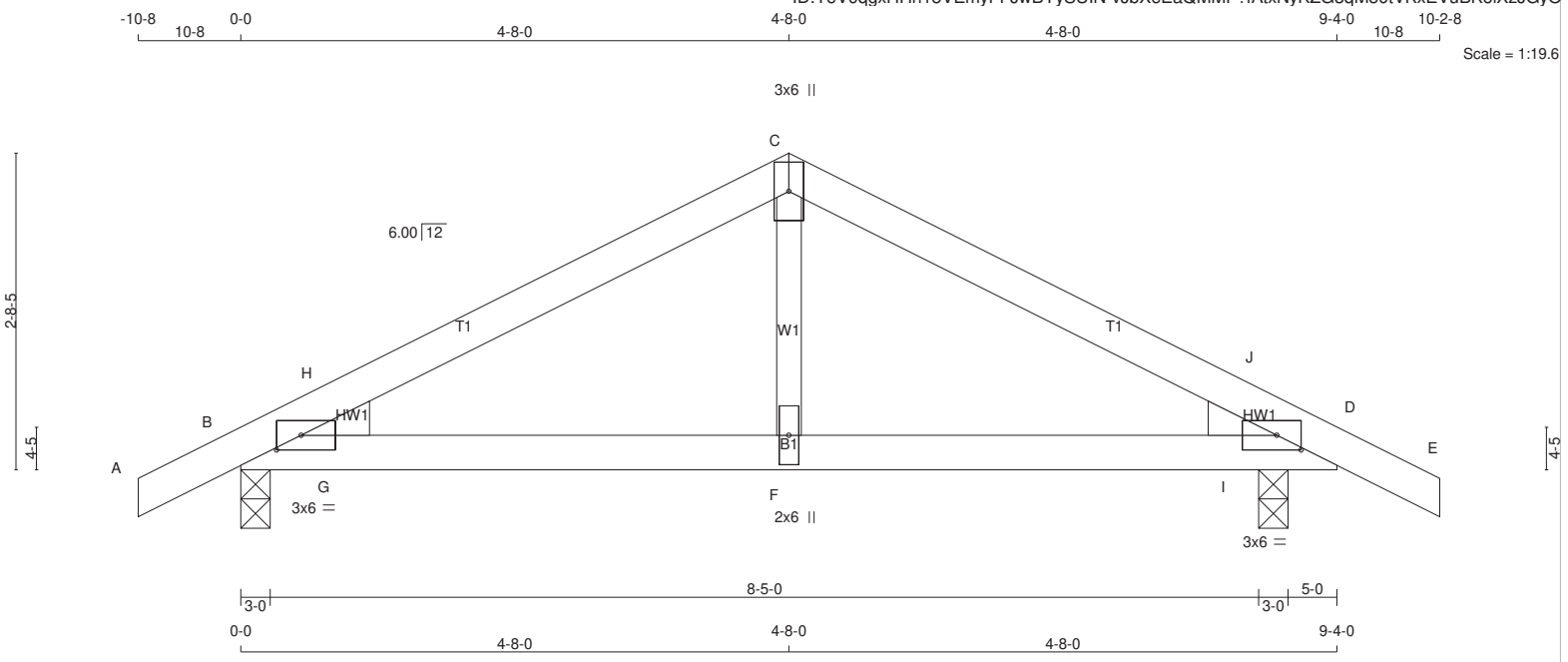

TOTAL WEIGHT = 28 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBH1-I	MT20	3.0	6.0	1.50	2.50
C	TTW+p	MT20	3.0	6.0		
D	TMBH1-I	MT20	3.0	6.0	1.50	2.50
F	BMW+w	MT20	2.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
B	693	0	693	0	0	3-0	1-8	2x4 L
D	693	0	693	0	0	3-0	1-8	2x4 R

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	484	351 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0
D	484	351 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 21	-109.0	-109.0	0.07 (1)	10.00	F- C	0 / 234	0.05 (1)
B- H	-711 / 0	-109.0	-109.0	0.04 (1)	6.25	G- H	-262 / 0	0.00 (1)
H- C	-715 / 0	-109.0	-109.0	0.24 (1)	6.25	I- J	-262 / 0	0.00 (1)
C- J	-715 / 0	-109.0	-109.0	0.24 (1)	6.25			
J- D	-711 / 0	-109.0	-109.0	0.04 (1)	6.25			
D- E	0 / 21	-109.0	-109.0	0.07 (1)	10.00			
B- G	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
G- F	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
F- I	0 / 636	-17.5	-17.5	0.35 (1)	10.00			
I- D	0 / 636	-17.5	-17.5	0.35 (1)	10.00			

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SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.24/1.00 (C-H:1) , BC=0.35/1.00 (B-G:1) , WB=0.05/1.00 (C-F:1) , SSI=0.18/1.00 (B-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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (D) (INPUT = 0.90)
JSI METAL= 0.18 (D) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	A3	3	1	36-01-A TRUSS DESC.	

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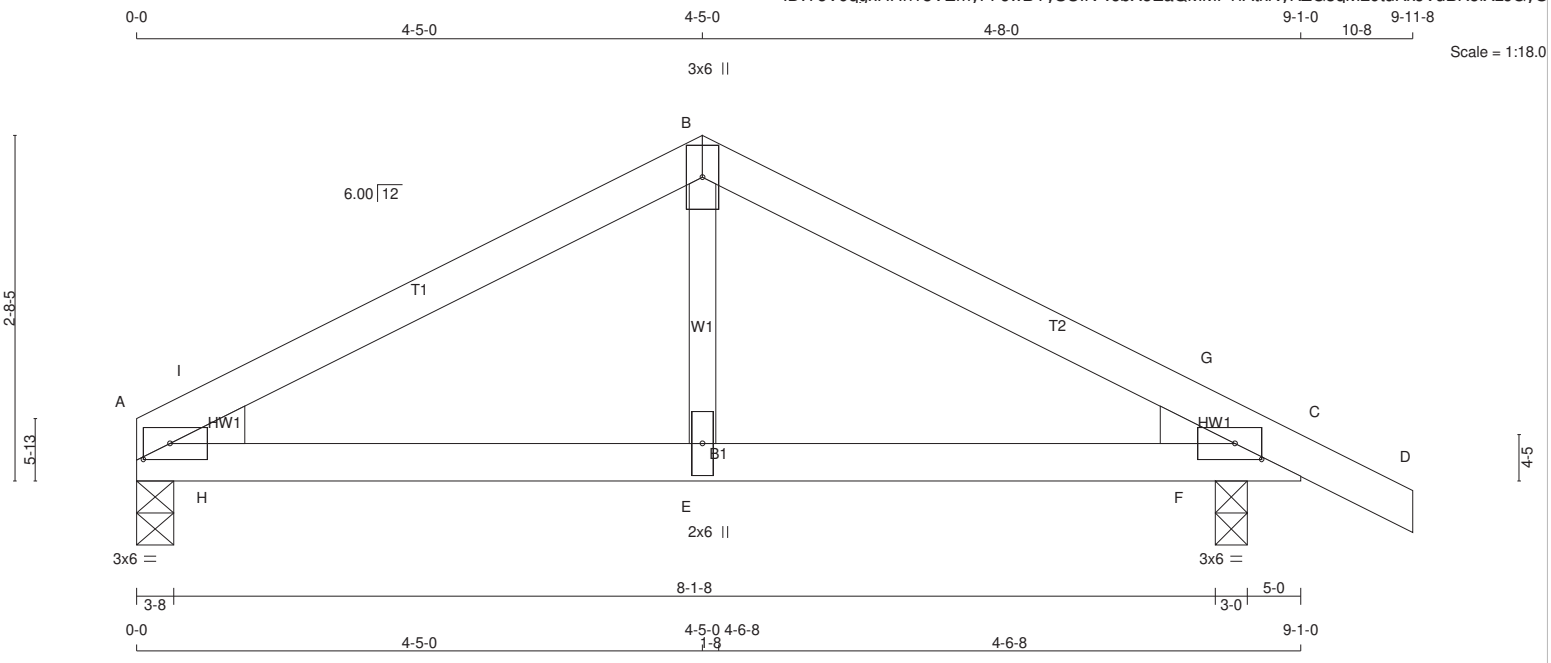

TOTAL WEIGHT = 3 X 26 = 79 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMBH1-I	MT20	3.0	6.0	1.50	2.50
B	TTW+p	MT20	3.0	6.0		
C	TMBH1-I	MT20	3.0	6.0	1.50	2.50
E	BMW+w	MT20	2.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
C	677	0	677	0	0	3-0	1-8	2x4 R
A	574	0	574	0	0	3-8	1-8	2x4 L

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	473	343 / 0	0 / 0	0 / 0	0 / 0	129 / 0	0 / 0
A	403	285 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0

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

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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- I	-681 / 0	-109.0	-109.0	0.09 (1)	6.25	E- B	0 / 209	0.05 (1)
I- B	-677 / 0	-109.0	-109.0	0.21 (1)	6.25	F- G	-255 / 0	0.00 (1)
B- G	-671 / 0	-109.0	-109.0	0.25 (1)	6.25	H- I	-218 / 4	0.00 (1)
G- C	-670 / 0	-109.0	-109.0	0.03 (1)	6.25			
C- D	0 / 21	-109.0	-109.0	0.07 (1)	10.00			
A- H	0 / 597	-17.5	-17.5	0.26 (1)	10.00			
H- E	0 / 597	-17.5	-17.5	0.26 (1)	10.00			
E- F	0 / 597	-17.5	-17.5	0.34 (1)	10.00			
F- C	0 / 597	-17.5	-17.5	0.34 (1)	10.00			

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

this seal is for this structural component only
Refer to FT2009

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.30")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.25/1.00 (B-G:1) , BC=0.34/1.00 (E-F:1) , WB=0.05/1.00 (B-E:1) , SSI=0.18/1.00 (C-F: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (C) (INPUT = 0.90)
JSI METAL= 0.17 (C) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC. 36-01-A	DRWG NO.
36-01-A	C1	1	1	TRUSS DESC.	

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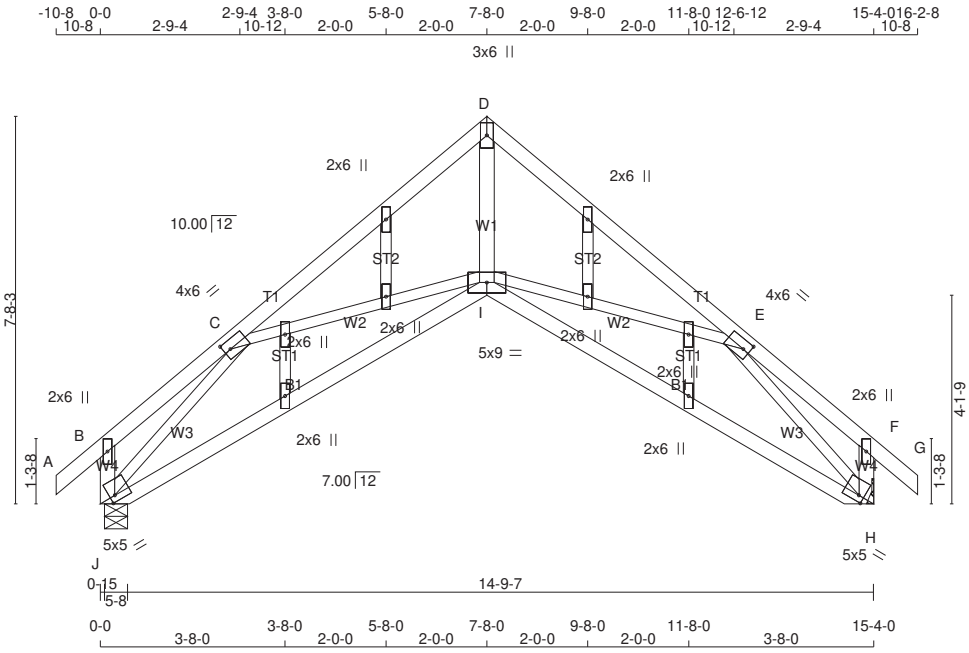

TOTAL WEIGHT = 72 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
J - I	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
I - D	2x4	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	6.0	2.00	1.50
D	TTW+p	MT20	3.0	6.0		
E	TMWW-t	MT20	4.0	6.0	2.00	1.50
F	TMV+p	MT20	2.0	6.0		
H	BMVW1-t	MT20	5.0	5.0	1.50	1.25
I	BBWWW-p	MT20	5.0	9.0		
J	BMVW1-t	MT20	5.0	5.0	1.50	1.25
K, N, O, R						
K	WMW+w	MT20	2.0	6.0		
L	TMW+w	MT20	2.0	6.0		
M	BMW+w	MT20	2.0	6.0		
P	TMW+w	MT20	2.0	6.0		
Q	BMW+w	MT20	2.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
J	1075	0	1075	0	0	5-8	1-8
H	1075	0	1075	0	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT H TO RESIST THE MAX FACTORED REACTIONS.

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0
H	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 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)

CHORDS					WEBS			
MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	I- D	0 / 1484	0.24 (1)
B- C	0 / 51	-109.0	-109.0	0.30 (1)	10.00	I- E	0 / 71	0.02 (4)
C- D	-1544 / 0	-109.0	-109.0	0.38 (1)	4.90	C- I	0 / 71	0.02 (4)
D- E	-1544 / 0	-109.0	-109.0	0.38 (1)	4.90	J- C	-1899 / 0	0.59 (1)
E- F	0 / 51	-109.0	-109.0	0.30 (1)	10.00	E- H	-1899 / 0	0.59 (1)
F- G	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
J- B	-172 / 0	0.0	0.0	0.02 (1)	7.81			
H- F	-172 / 0	0.0	0.0	0.02 (1)	7.81			
J- I	0 / 1335	-17.5	-17.5	0.39 (1)	10.00			
I- H	0 / 1335	-17.5	-17.5	0.39 (1)	10.00			

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.51")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/ 774 (0.24")

CSI: TC=0.38/1.00 (C-D:1) , BC=0.39/1.00 (H-I:1) , WB=0.59/1.00 (E-H:1) , SSI=0.19/1.00 (D-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (H) (INPUT = 0.90)
JSI METAL= 0.55 (H) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	C2	2	1	36-01-A TRUSS DESC.	

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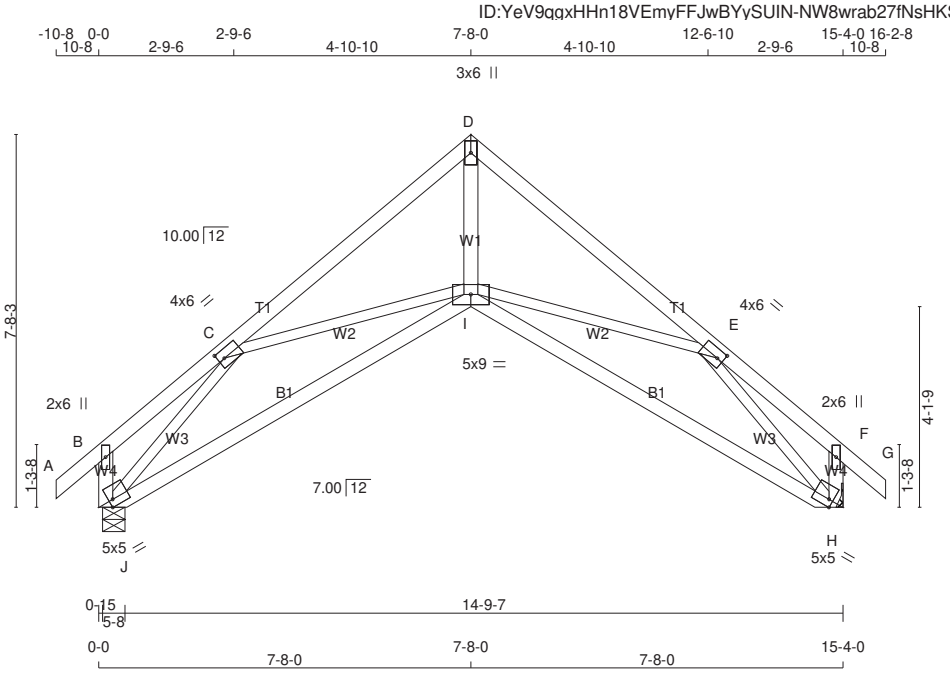

TOTAL WEIGHT = 2 X 67 = 134 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
J - I	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
I - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	6.0	2.00	1.50
D	TTW+p	MT20	3.0	6.0		
E	TMWW-t	MT20	4.0	6.0	2.00	1.50
F	TMV+p	MT20	2.0	6.0		
H	BMVW1-t	MT20	5.0	5.0	Edge	1.00
I	BBWWW-p	MT20	5.0	9.0		
J	BMVW1-t	MT20	5.0	5.0	Edge	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG	REQRD BRG
J	1075	0	1075	0	0	5-8	1-8
H	1075	0	1075	0	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT H TO RESIST THE MAX FACTORED REACTIONS.

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): H

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0
H	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00
B- C	0 / 51	-109.0	-109.0	0.30 (1)	10.00
C- D	-1544 / 0	-109.0	-109.0	0.37 (1)	4.90
D- E	-1544 / 0	-109.0	-109.0	0.37 (1)	4.90
E- F	0 / 51	-109.0	-109.0	0.30 (1)	10.00
F- G	0 / 34	-109.0	-109.0	0.07 (1)	10.00
J- B	-173 / 0	0.0	0.0	0.02 (1)	7.81
H- F	-173 / 0	0.0	0.0	0.02 (1)	7.81
J- I	0 / 1336	-17.5	-17.5	0.39 (1)	10.00
I- H	0 / 1336	-17.5	-17.5	0.39 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
I- D	0 / 1485	0.24 (1)
I- E	0 / 71	0.02 (4)
C- I	0 / 71	0.02 (4)
J- C	-1900 / 0	0.59 (1)
E- H	-1900 / 0	0.59 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.51")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/ 774 (0.24")

CSI: TC=0.37/1.00 (C-D:1) , BC=0.39/1.00 (H-I:1) , WB=0.59/1.00 (E-H:1) , SSI=0.19/1.00 (D-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (C) (INPUT = 0.90)
JSI METAL= 0.55 (J) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	C3	1	1	36-01-A TRUSS DESC.	

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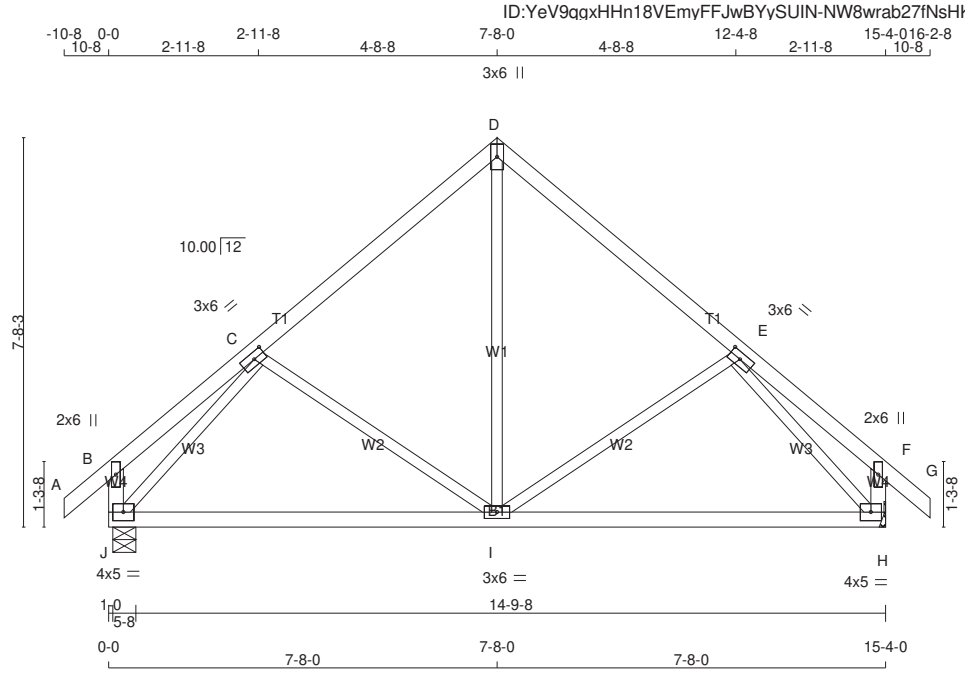

TOTAL WEIGHT = 67 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	3.0	6.0	1.50	2.75
D	TTW+p	MT20	3.0	6.0		
E	TMWW-t	MT20	3.0	6.0	1.50	2.75
F	TMV+p	MT20	2.0	6.0		
H	BMVW1-t	MT20	4.0	5.0		
I	BMWWW-t	MT20	3.0	6.0		
J	BMVW1-t	MT20	4.0	5.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
J	1075	0	1075	0	0	5-8	1-8
H	1075	0	1075	0	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT H TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0
H	752	541 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0

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

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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	I- D	0 / 438	0.10 (1)
B- C	0 / 51	-109.0	-109.0	0.32 (1)	10.00	I- E	-240 / 0	0.14 (1)
C- D	-710 / 0	-109.0	-109.0	0.30 (1)	6.25	C- I	-240 / 0	0.14 (1)
D- E	-710 / 0	-109.0	-109.0	0.30 (1)	6.25	J- C	-1109 / 0	0.34 (1)
E- F	0 / 51	-109.0	-109.0	0.32 (1)	10.00	E- H	-1109 / 0	0.34 (1)
F- G	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
J- B	-181 / 0	0.0	0.0	0.02 (1)	7.81			
H- F	-181 / 0	0.0	0.0	0.02 (1)	7.81			
J- I	0 / 721	-17.5	-17.5	0.34 (4)	10.00			
I- H	0 / 721	-17.5	-17.5	0.34 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.51")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.32/1.00 (E-F:1) , BC=0.34/1.00 (I-J:4) , WB=0.34/1.00 (E-H:1) , SSI=0.19/1.00 (D-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.26 (C) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D1-Cond1	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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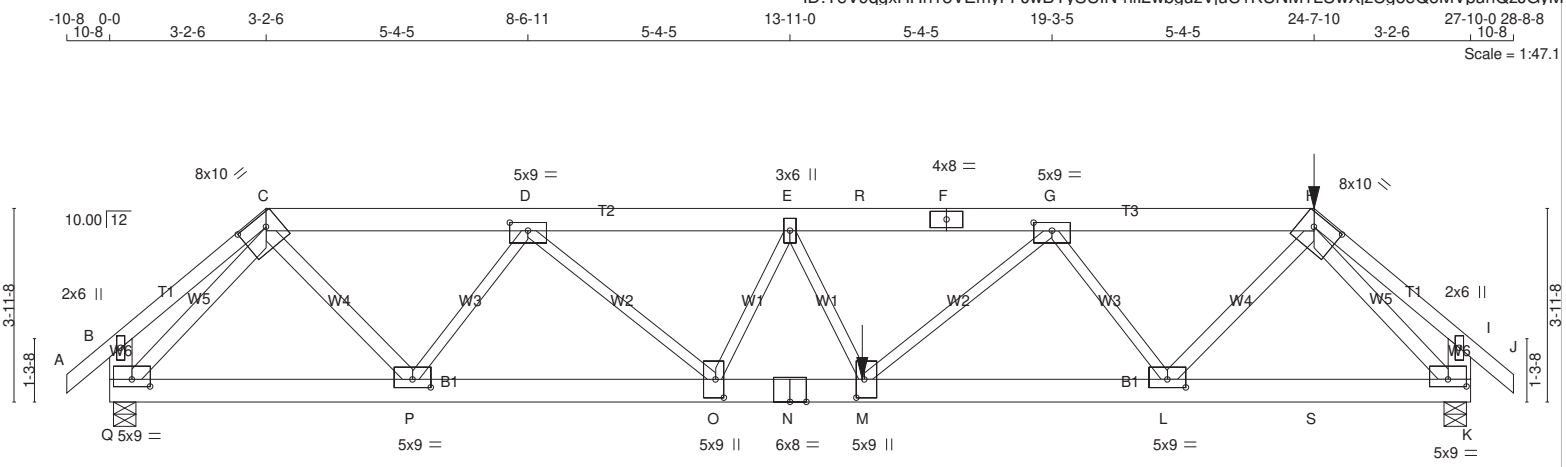

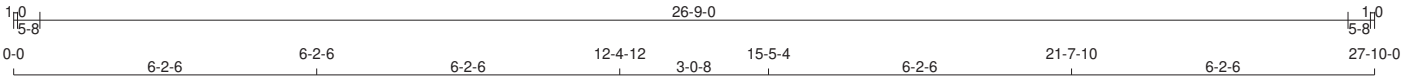

TOTAL WEIGHT = 2 X 143 = 286 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	1650F 1.5E	SPF
N - K	2x6	DRY	1650F 1.5E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
C - P	2x4	DRY	No.2	SPF
L - H	2x4	DRY	No.2	SPF
Q - C	2x4	DRY	2100F 1.8E	SPF
H - K	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TTWW-h	MT20	8.0	10.0	3.00	6.50
D	TMWW-t	MT20	5.0	9.0	2.00	4.50
E	TMWW+t	MT20	3.0	6.0		
F	TS-t	MT20	4.0	8.0		
G	TMWW-t	MT20	5.0	9.0	2.00	4.50
H	TTWW-h	MT20	8.0	10.0	3.00	6.50
I	TMV+p	MT20	2.0	6.0		
K	BMVW1-t	MT20	5.0	9.0	1.75	4.50
L	BMWW-t	MT20	5.0	9.0	2.00	4.50
M	BMWW+t	MT20	5.0	9.0	4.50	2.00
N	BS-t	MT20	6.0	8.0		
O	BMWW+t	MT20	5.0	9.0	4.50	2.00
P	BMWW-t	MT20	5.0	9.0	2.00	4.50
Q	BMVW1-t	MT20	5.0	9.0	1.75	4.50

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 261.4 lbs FACTORED DOWN AT 24-7-10 ON TOP CHORD, AND 1600.7 lbs FACTORED DOWN AT 15-4-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
Q	2902	0	2902	0	0	5-8	3-2
K	3775	0	3775	0	0	5-8	4-6

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	2032	1447 / 0	0 / 0	0 / 0	0 / 0	585 / 0	0 / 0
K	2645	1874 / 0	0 / 0	0 / 0	0 / 0	771 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.27 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.08 (1)		10.00	C- P	0 / 2855	0.50 (1)
B- C	0 / 0	-109.0	-109.0	0.21 (1)		10.00	P- D	-2464 / 0	0.75 (1)
C- D	-4192 / 0	-109.0	-109.0	0.35 (1)		3.93	D- O	0 / 2035	0.50 (1)
D- E	-7072 / 0	-109.0	-109.0	0.61 (1)		2.89	O- E	-1400 / 0	0.36 (1)
E- R	-7917 / 0	-109.0	-109.0	0.94 (1)		2.27	E- M	0 / 719	0.18 (1)
R- F	-7917 / 0	-205.5	-205.5	0.94 (1)		2.27	M- G	0 / 1501	0.37 (1)
F- G	-7917 / 0	-205.5	-205.5	0.94 (1)		2.27	G- L	-2757 / 0	0.84 (1)
G- H	-5266 / 0	-205.5	-205.5	0.65 (1)		3.19	L- H	0 / 3341	0.59 (1)
H- I	0 / 0	-109.0	-109.0	0.21 (1)		10.00	Q- C	-3479 / 0	0.52 (1)
I- J	0 / 34	-109.0	-109.0	0.08 (1)		10.00	H- K	-4608 / 0	0.69 (1)
Q- B	-280 / 0	0.0	0.0	0.02 (1)		7.81			
K- I	-280 / 0	0.0	0.0	0.02 (1)		7.81			
Q- P	0 / 2340	-17.5	-17.5	0.22 (1)		10.00			
P- O	0 / 5569	-17.5	-17.5	0.51 (1)		10.00			
O- N	0 / 7630	-17.5	-17.5	0.69 (1)		10.00			
N- M	0 / 7630	-17.5	-17.5	0.69 (1)		10.00			
M- L	0 / 6807	-33.0	-33.0	0.65 (1)		10.00			
L- S	0 / 3100	-33.0	-33.0	0.31 (1)		10.00			
S- K	0 / 3100	-33.0	-33.0	0.31 (1)		10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
H	24-7-10	-261	-261	---	FRONT	VERT	TOTAL
M	15-4-12	-1601	-1601	---	FRONT	VERT	TOTAL

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-2-6
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 12-5-4 OF SPAN MEASURED FROM THE RIGHT.

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.24")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 798 (0.42")

CSI: TC=0.94/1.00 (E-G:1) , BC=0.69/1.00 (M-O:1) , WB=0.84/1.00 (G-L:1) , SSI=0.43/1.00 (G-H: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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (H) (INPUT = 0.90)
JSI METAL= 1.00 (N) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D1-Cond2	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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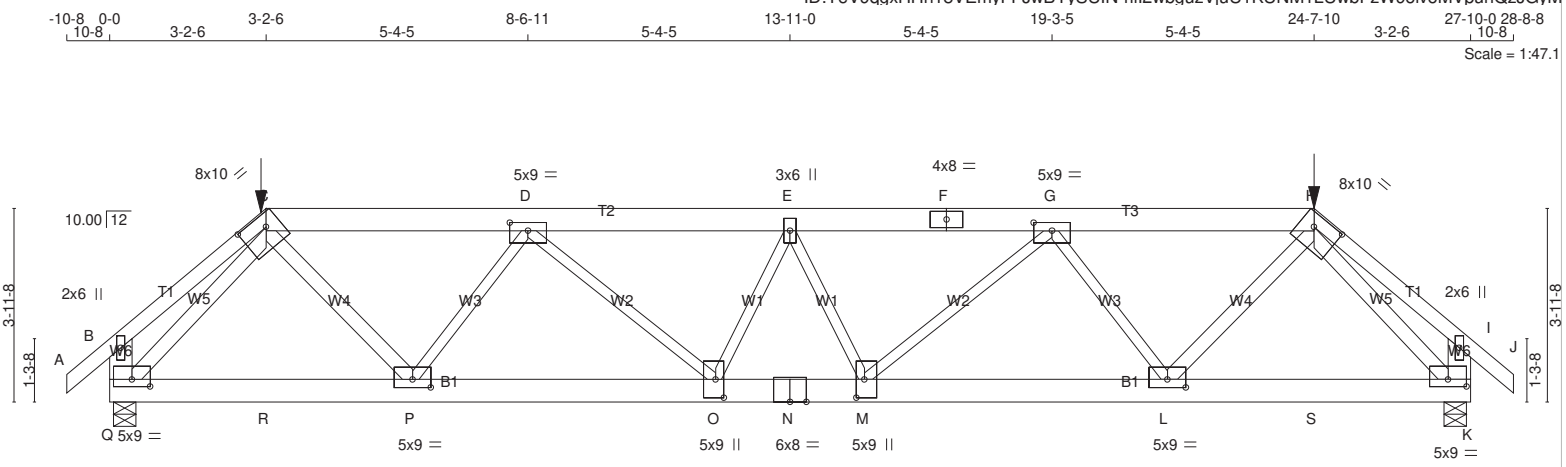

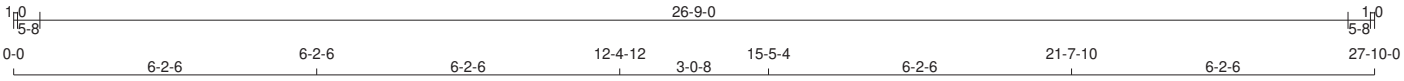

TOTAL WEIGHT = 2 X 143 = 286 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	1650F 1.5E	SPF
N - K	2x6	DRY	1650F 1.5E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
C - P	2x4	DRY	No.2	SPF
L - H	2x4	DRY	No.2	SPF
Q - C	2x4	DRY	2100F 1.8E	SPF
H - K	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TTWW-h	MT20	8.0	10.0	3.00	6.50
D	TMWW-t	MT20	5.0	9.0	2.00	4.50
E	TMWW+t	MT20	3.0	6.0		
F	TS-t	MT20	4.0	8.0		
G	TMWW-t	MT20	5.0	9.0	2.00	4.50
H	TTWW-h	MT20	8.0	10.0	3.00	6.50
I	TMV+p	MT20	2.0	6.0		
K	BMVW1-t	MT20	5.0	9.0	1.75	4.50
L	BMWW-t	MT20	5.0	9.0	2.00	4.50
M	BMWW+t	MT20	5.0	9.0	4.50	2.00
N	BS-t	MT20	6.0	8.0		
O	BMWW+t	MT20	5.0	9.0	4.50	2.00
P	BMWW-t	MT20	5.0	9.0	2.00	4.50
Q	BMVW1-t	MT20	5.0	9.0	1.75	4.50

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 228.3 lbs FACTORED DOWN AT 24-7-10, AND 228.3 lbs FACTORED DOWN AT 3-2-6 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
Q	3008	0	3008	0	0	5-8	3-4
K	3008	0	3008	0	0	5-8	3-4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	2120	1431 / 0	0 / 0	0 / 0	0 / 0	689 / 0	0 / 0
K	2120	1431 / 0	0 / 0	0 / 0	0 / 0	689 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.06 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 30	-95.2	-95.2	0.07 (1)	10.00	C- P	0 / 2520	0.45 (1)
B- C	0 / 0	-95.2	-95.2	0.18 (1)	10.00	P- D	-2024 / 0	0.62 (1)
C- D	-4068 / 0	-179.5	-179.5	0.50 (1)	3.78	D- O	0 / 856	0.21 (1)
D- E	-5832 / 0	-179.5	-179.5	0.65 (1)	3.06	O- E	-485 / 0	0.13 (1)
E- F	-5832 / 0	-179.5	-179.5	0.65 (1)	3.06	E- M	-485 / 0	0.13 (1)
F- G	-5832 / 0	-179.5	-179.5	0.65 (1)	3.06	M- G	0 / 856	0.21 (1)
G- H	-4068 / 0	-179.5	-179.5	0.50 (1)	3.78	G- L	-2024 / 0	0.62 (1)
H- I	0 / 0	-95.2	-95.2	0.18 (1)	10.00	L- H	0 / 2520	0.45 (1)
I- J	0 / 30	-95.2	-95.2	0.07 (1)	10.00	Q- C	-3617 / 0	0.54 (1)
Q- B	-245 / 0	0.0	0.0	0.02 (1)	7.81	H- K	-3617 / 0	0.54 (1)
K- I	-245 / 0	0.0	0.0	0.02 (1)	7.81			
Q- R	0 / 2433	-33.0	-33.0	0.26 (1)	10.00			
R- P	0 / 2433	-33.0	-33.0	0.26 (1)	10.00			
P- O	0 / 5199	-33.0	-33.0	0.49 (1)	10.00			
O- N	0 / 6025	-33.0	-33.0	0.53 (1)	10.00			
N- M	0 / 6025	-33.0	-33.0	0.53 (1)	10.00			
M- L	0 / 5199	-33.0	-33.0	0.49 (1)	10.00			
L- S	0 / 2433	-33.0	-33.0	0.26 (1)	10.00			
S- K	0 / 2433	-33.0	-33.0	0.26 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	3-2-6	-228	-228	---	FRONT	VERT	TOTAL
H	24-7-10	-228	-228	---	FRONT	VERT	TOTAL

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	26.7	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	39.7	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-2-6
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.33")

CSI: TC=0.65/1.00 (E-G:1) , BC=0.53/1.00 (M-O:1) , WB=0.62/1.00 (G-L:1) , SSI=0.38/1.00 (G-H: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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (Q) (INPUT = 0.90)
JSI METAL= 0.78 (N) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D2	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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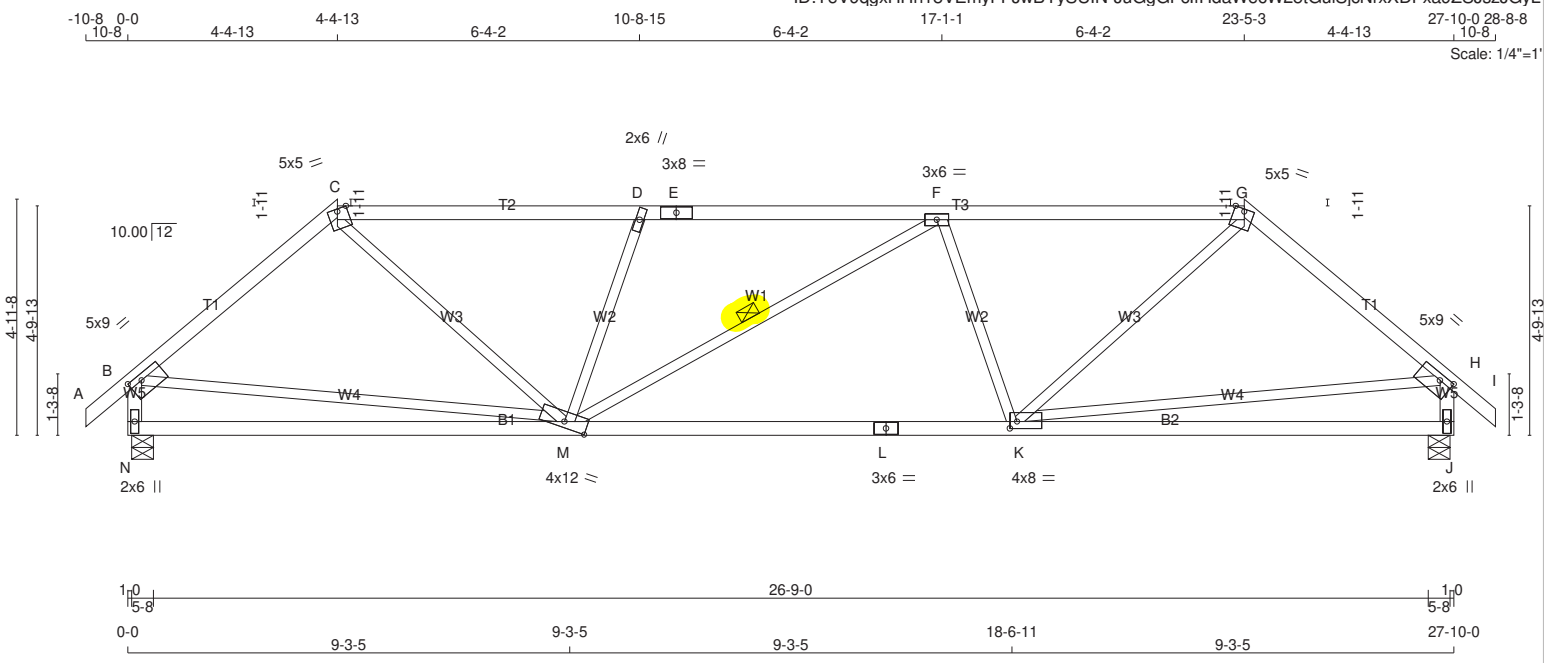

TOTAL WEIGHT = 2 X 111 = 222 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	9.0	1.50	3.25
C	TTW-m	MT20	5.0	5.0	Edge	
D	TMW+w	MT20	2.0	6.0		
E	TS-t	MT20	3.0	8.0		
F	TMWW-t	MT20	3.0	6.0		
G	TTW-m	MT20	5.0	5.0	Edge	
H	TMVW-t	MT20	5.0	9.0	1.50	3.25
J	BMV1+p	MT20	2.0	6.0		
K	BMWWW-t	MT20	4.0	8.0	1.75	1.75
L	BS-t	MT20	3.0	6.0		
M	BMWWWW*-w	MT20	4.0	12.0	1.50	5.75
N	BMV1+p	MT20	2.0	6.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	3-3
J	1866	0	1866	0	0	5-8	3-3

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF F-M.

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)

CHORDS MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO					FR-TO			
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- M	0 / 1143	0.26 (1)
B- C	-2034 / 0	-109.0	-109.0	0.48 (1)	4.25	M- D	-816 / 0	0.32 (1)
C- D	-2396 / 0	-109.0	-109.0	0.81 (1)	3.50	M- F	-7 / 1	0.00 (1)
D- E	-2663 / 0	-109.0	-109.0	0.87 (1)	3.27	F- K	-829 / 0	0.32 (1)
E- F	-2663 / 0	-109.0	-109.0	0.87 (1)	3.27	K- G	0 / 1125	0.25 (1)
F- G	-2374 / 0	-109.0	-109.0	0.83 (1)	3.49	B- M	0 / 1579	0.36 (1)
G- H	-2032 / 0	-109.0	-109.0	0.48 (1)	4.25	K- H	0 / 1578	0.36 (1)
H- I	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
N- B	-1801 / 0	0.0	0.0	0.18 (1)	6.23			
J- H	-1802 / 0	0.0	0.0	0.18 (1)	6.23			
N- M	0 / 0	-17.5	-17.5	0.35 (4)	10.00			
M- L	0 / 2669	-17.5	-17.5	0.62 (1)	10.00			
L- K	0 / 2669	-17.5	-17.5	0.62 (1)	10.00			
K- J	0 / 0	-17.5	-17.5	0.35 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.87/1.00 (D-F:1) , BC=0.62/1.00 (K-M:1) , WB=0.36/1.00 (B-M:1) , SSI=0.32/1.00 (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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.72 (L) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D3	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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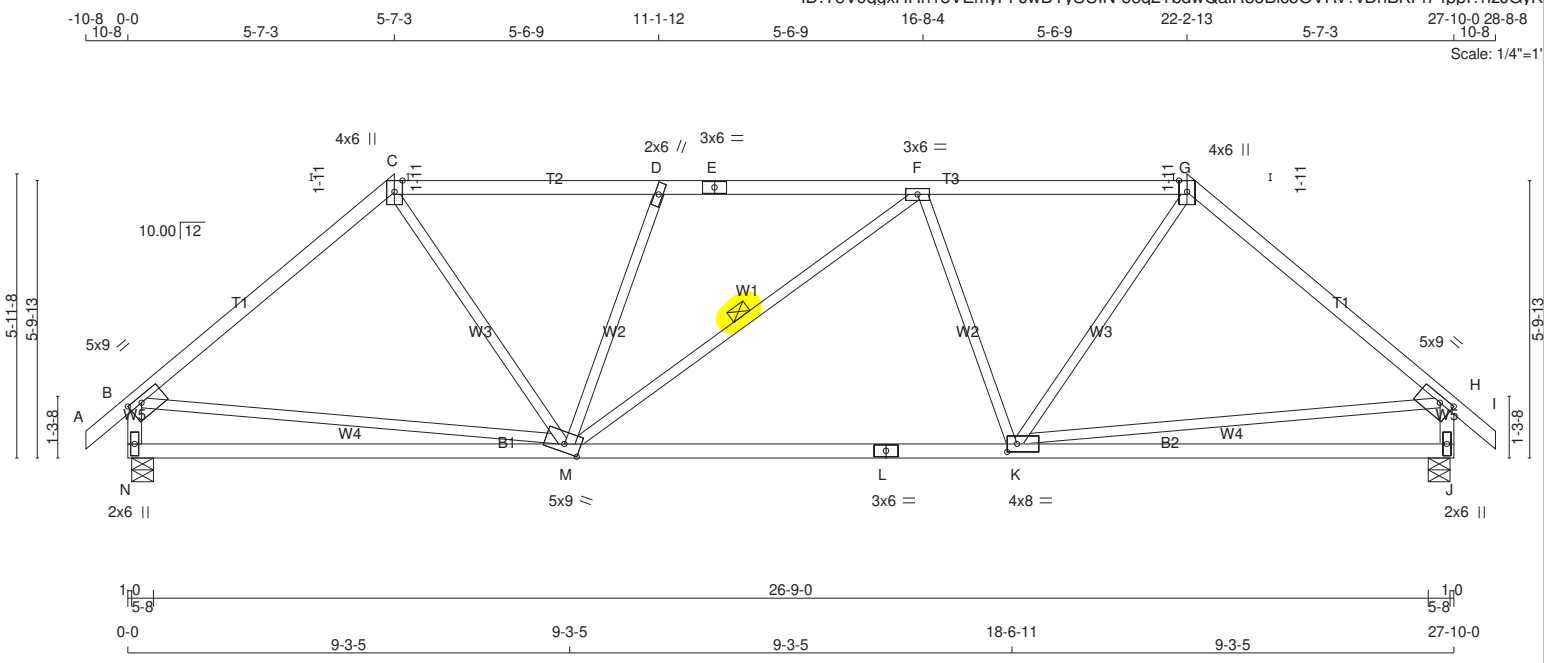

TOTAL WEIGHT = 2 X 114 = 227 lb

[M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	9.0	1.50	3.25
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMW+w	MT20	2.0	6.0		
E	TS-t	MT20	3.0	6.0		
F	TMWW-t	MT20	3.0	6.0		
G	TTW+p	MT20	4.0	6.0	Edge	
H	TMVW-t	MT20	5.0	9.0	1.50	3.25
J	BMV1+p	MT20	2.0	6.0		
K	BMWWW-t	MT20	4.0	8.0	2.00	2.50
L	BS-t	MT20	3.0	6.0		
M	BMWWWW*-w	MT20	5.0	9.0	2.00	4.00
N	BMV1+p	MT20	2.0	6.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	3-3
J	1866	0	1866	0	0	5-8	3-3

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF F-M.

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)

CHORDS MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO					FR-TO			
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- M	0 / 837	0.19 (1)
B- C	-1940 / 0	-109.0	-109.0	0.81 (1)	3.87	M- D	-713 / 0	0.44 (1)
C- D	-1954 / 0	-109.0	-109.0	0.55 (1)	4.19	M- F	-7 / 0	0.00 (1)
D- E	-2187 / 0	-109.0	-109.0	0.59 (1)	3.94	F- K	-723 / 0	0.44 (1)
E- F	-2187 / 0	-109.0	-109.0	0.59 (1)	3.94	K- G	0 / 828	0.19 (1)
F- G	-1941 / 0	-109.0	-109.0	0.57 (1)	4.17	B- M	0 / 1505	0.34 (1)
G- H	-1940 / 0	-109.0	-109.0	0.81 (1)	3.87	K- H	0 / 1504	0.34 (1)
H- I	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
N- B	-1800 / 0	0.0	0.0	0.18 (1)	6.23			
J- H	-1801 / 0	0.0	0.0	0.18 (1)	6.23			
N- M	0 / 0	-17.5	-17.5	0.35 (4)	10.00			
M- L	0 / 2193	-17.5	-17.5	0.55 (1)	10.00			
L- K	0 / 2193	-17.5	-17.5	0.55 (1)	10.00			
K- J	0 / 0	-17.5	-17.5	0.35 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.81/1.00 (B-C:1) , BC=0.55/1.00 (K-M:1) , WB=0.44/1.00 (F-K:1) , SSI=0.28/1.00 (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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (M) (INPUT = 0.90)
JSI METAL= 0.59 (L) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D4	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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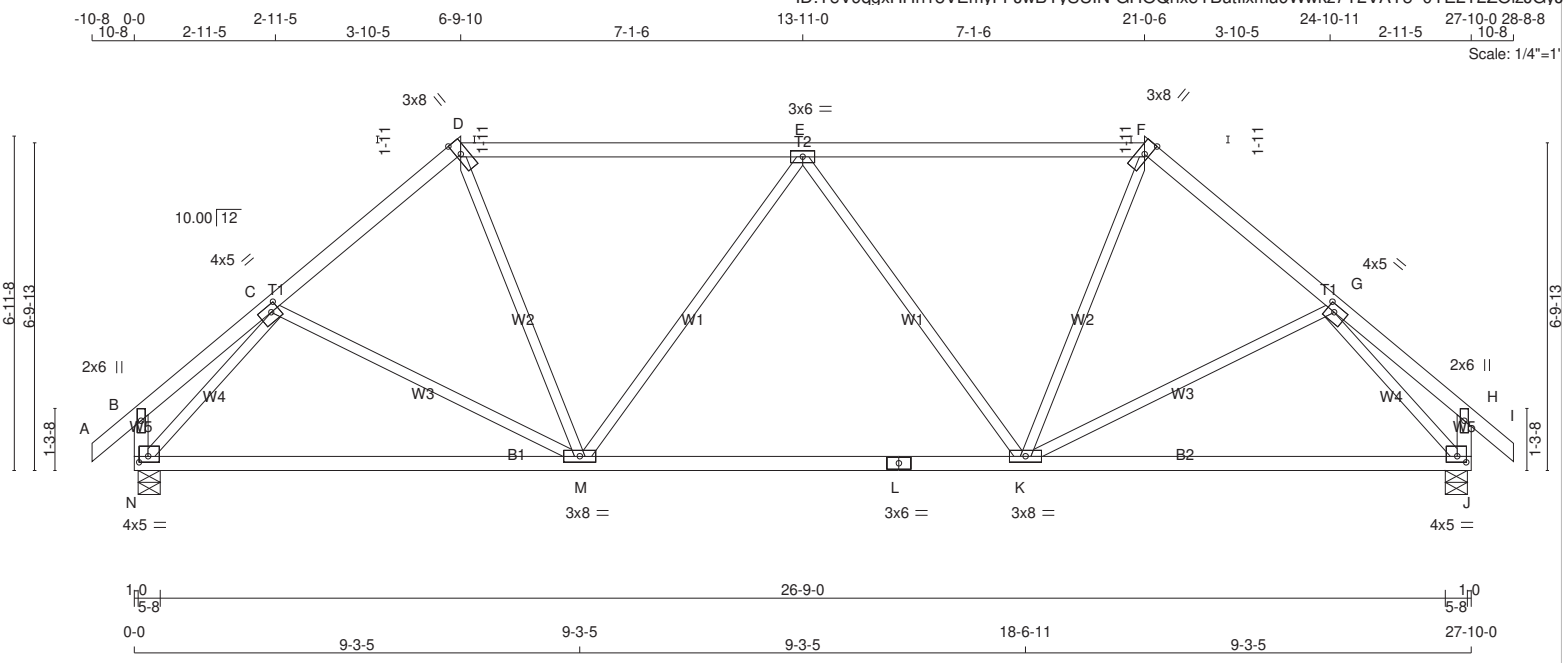

TOTAL WEIGHT = 2 X 115 = 229 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	1650F 1.5E	SPF
F - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	5.0	1.75	2.00
D	TTW+h	MT20	3.0	8.0	Edge	1.25
E	TMWW-t	MT20	3.0	6.0		
F	TTW+h	MT20	3.0	8.0	Edge	1.25
G	TMWW-t	MT20	4.0	5.0	1.75	2.00
H	TMV+p	MT20	2.0	6.0		
J	BMVW1-t	MT20	4.0	5.0	1.50	2.25
K	BMWWW-t	MT20	3.0	8.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	3.0	8.0		
N	BMVW1-t	MT20	4.0	5.0	1.50	2.25

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	2-2
J	1866	0	1866	0	0	5-8	2-2

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07	(1)	10.00	C- M	0 / 47	0.02 (4)
B- C	0 / 32	-109.0	-109.0	0.20	(1)	10.00	D- M	0 / 712	0.16 (1)
C- D	-1797 / 0	-109.0	-109.0	0.27	(1)	4.73	M- E	-603 / 0	0.82 (1)
D- E	-1628 / 0	-109.0	-109.0	0.90	(1)	4.13	E- K	-603 / 0	0.82 (1)
E- F	-1628 / 0	-109.0	-109.0	0.90	(1)	4.13	K- F	0 / 712	0.16 (1)
F- G	-1797 / 0	-109.0	-109.0	0.27	(1)	4.73	K- G	0 / 47	0.02 (4)
G- H	0 / 32	-109.0	-109.0	0.20	(1)	10.00	N- C	-2091 / 0	0.65 (1)
H- I	0 / 34	-109.0	-109.0	0.07	(1)	10.00	G- J	-2091 / 0	0.65 (1)
N- B	-209 / 0	0.0	0.0	0.02	(1)	7.81			
J- H	-209 / 0	0.0	0.0	0.02	(1)	7.81			
N- M	0 / 1358	-17.5	-17.5	0.43	(4)	10.00			
M- L	0 / 1974	-17.5	-17.5	0.51	(1)	10.00			
L- K	0 / 1974	-17.5	-17.5	0.51	(1)	10.00			
K- J	0 / 1358	-17.5	-17.5	0.43	(4)	10.00			

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.90/1.00 (D-E:1) , BC=0.51/1.00 (K-M:1) , WB=0.82/1.00 (E-M:1) , SSI=0.38/1.00 (D-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (N) (INPUT = 0.90)
JSI METAL= 0.62 (C) (INPUT = 1.00)

this seal is for this structural component only
Refer to FT2009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D5	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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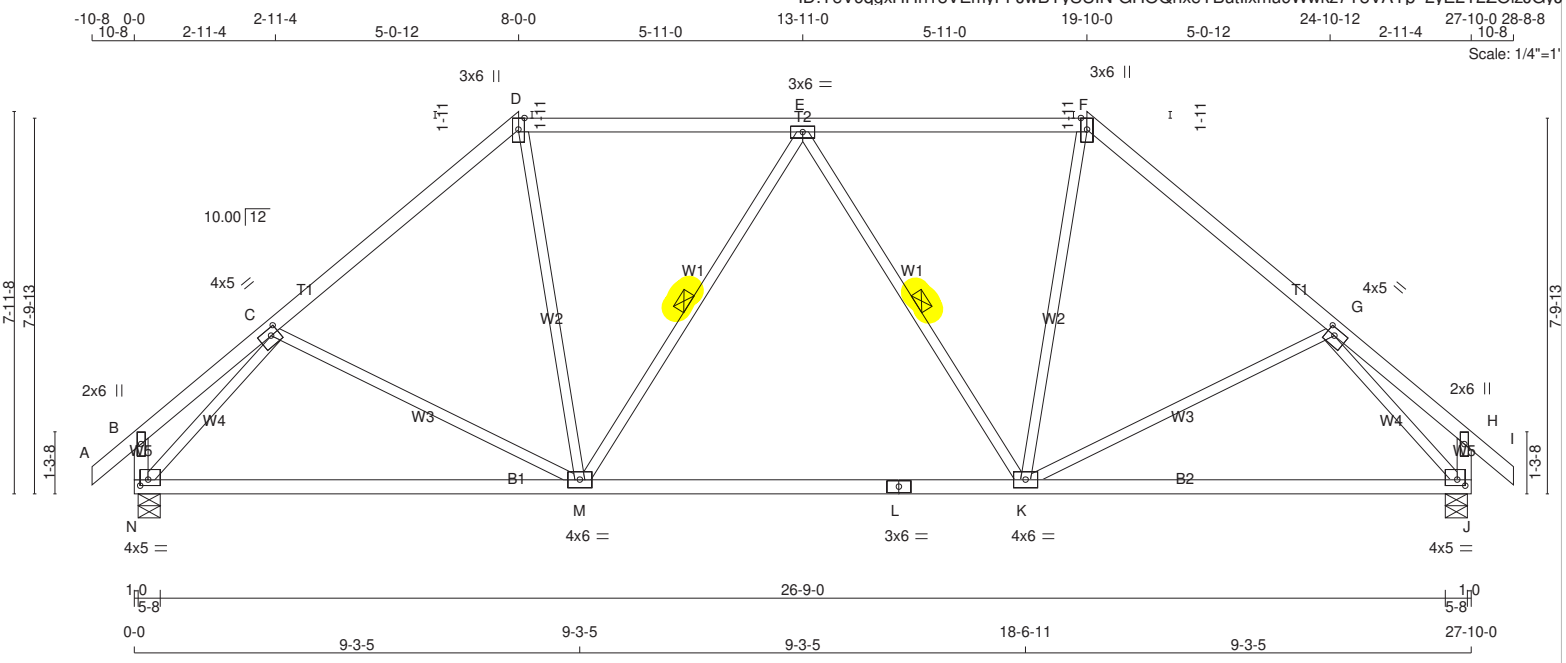

TOTAL WEIGHT = 2 X 118 = 236 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	5.0	1.75	2.00
D	TTW+p	MT20	3.0	6.0	Edge	
E	TMWW-t	MT20	3.0	6.0		
F	TTW+p	MT20	3.0	6.0	Edge	
G	TMWW-t	MT20	4.0	5.0	1.75	2.00
H	TMV+p	MT20	2.0	6.0		
J	BMVW1-t	MT20	4.0	5.0	1.50	2.00
K	BMWWW-t	MT20	4.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	4.0	6.0		
N	BMVW1-t	MT20	4.0	5.0	1.50	2.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	2-2
J	1866	0	1866	0	0	5-8	2-2

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF E-M, E-K.

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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- M	-75 / 32	0.08 (1)	
B- C	0 / 56	-109.0	-109.0	0.35 (1)	10.00	D- M	0 / 633	0.14 (1)	
C- D	-1745 / 0	-109.0	-109.0	0.41 (1)	4.63	M- E	-484 / 0	0.26 (1)	
D- E	-1431 / 0	-109.0	-109.0	0.52 (1)	4.78	E- K	-484 / 0	0.26 (1)	
E- F	-1431 / 0	-109.0	-109.0	0.52 (1)	4.78	K- F	0 / 633	0.14 (1)	
F- G	-1745 / 0	-109.0	-109.0	0.41 (1)	4.63	K- G	-75 / 32	0.08 (1)	
G- H	0 / 56	-109.0	-109.0	0.35 (1)	10.00	N- C	-2141 / 0	0.66 (1)	
H- I	0 / 34	-109.0	-109.0	0.07 (1)	10.00	G- J	-2141 / 0	0.66 (1)	
N- B	-172 / 0	0.0	0.0	0.02 (1)	7.81				
J- H	-172 / 0	0.0	0.0	0.02 (1)	7.81				
N- M	0 / 1390	-17.5	-17.5	0.44 (4)	10.00				
M- L	0 / 1683	-17.5	-17.5	0.47 (1)	10.00				
L- K	0 / 1683	-17.5	-17.5	0.47 (1)	10.00				
K- J	0 / 1390	-17.5	-17.5	0.44 (4)	10.00				

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.52/1.00 (D-E:1) , BC=0.47/1.00 (K-M:1) , WB=0.66/1.00 (C-N:1) , SSI=0.31/1.00 (D-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (N) (INPUT = 0.90)
JSI METAL= 0.62 (G) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D6	2	1	36-01-A TRUSS DESC.	

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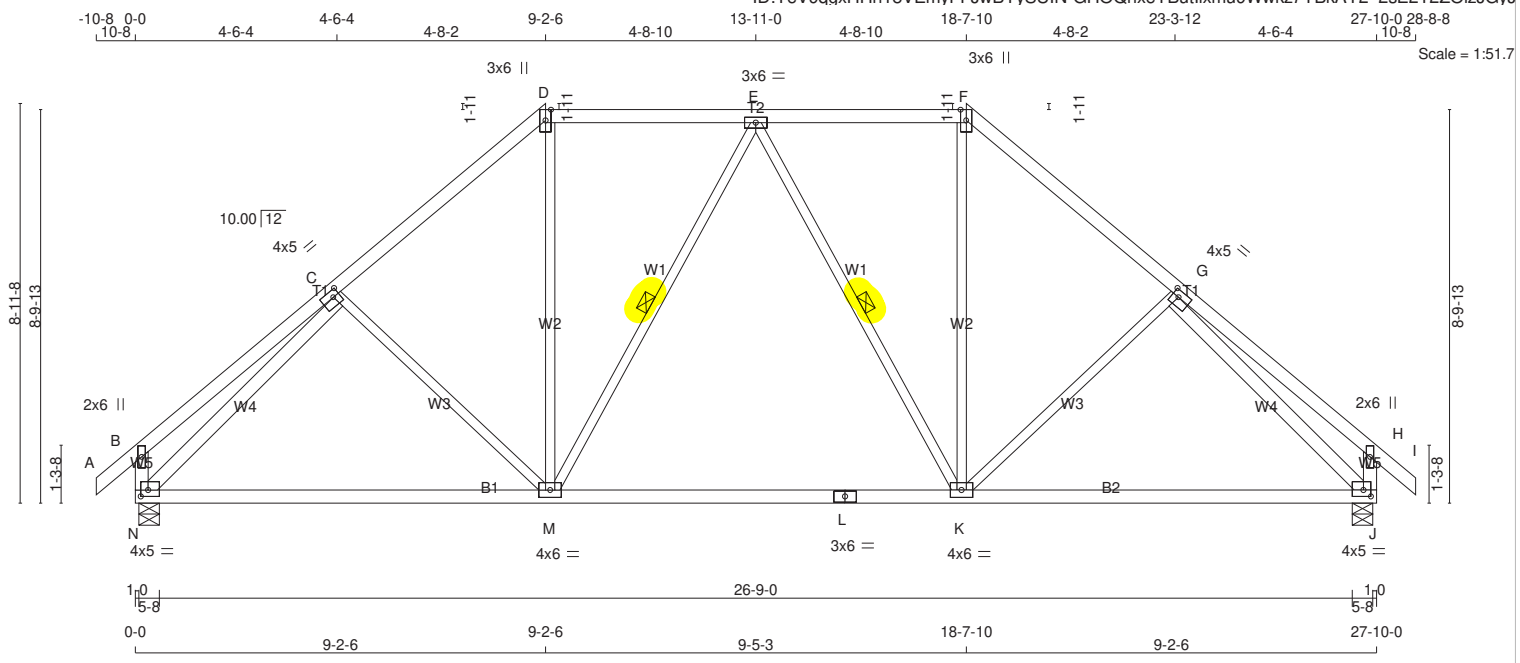

TOTAL WEIGHT = 2 X 128 = 256 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER		DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
N - C	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	5.0	1.75	1.75
D	TTW+p	MT20	3.0	6.0	Edge	
E	TMWW-t	MT20	3.0	6.0		
F	TTW+p	MT20	3.0	6.0	Edge	
G	TMWW-t	MT20	4.0	5.0	1.75	1.75
H	TMV+p	MT20	2.0	6.0		
J	BMVW1-t	MT20	4.0	5.0	1.75	2.00
K	BMWWW-t	MT20	4.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	4.0	6.0		
N	BMVW1-t	MT20	4.0	5.0	1.75	2.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	2-0
J	1866	0	1866	0	0	5-8	2-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF E-M, E-K.

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)

CHORDS MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO					FR-TO			
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- M	-227 / 0	0.19 (1)
B- C	0 / 40	-109.0	-109.0	0.38 (1)	10.00	M- D	0 / 664	0.15 (1)
C- D	-1692 / 0	-109.0	-109.0	0.35 (1)	4.77	M- E	-376 / 0	0.25 (1)
D- E	-1287 / 0	-109.0	-109.0	0.33 (1)	5.31	E- K	-376 / 0	0.25 (1)
E- F	-1287 / 0	-109.0	-109.0	0.33 (1)	5.31	K- F	0 / 664	0.15 (1)
F- G	-1692 / 0	-109.0	-109.0	0.35 (1)	4.77	K- G	-227 / 0	0.19 (1)
G- H	0 / 40	-109.0	-109.0	0.38 (1)	10.00	N- C	-2094 / 0	0.67 (1)
H- I	0 / 34	-109.0	-109.0	0.07 (1)	10.00	G- J	-2094 / 0	0.67 (1)
N- B	-283 / 0	0.0	0.0	0.03 (1)	7.81			
J- H	-283 / 0	0.0	0.0	0.03 (1)	7.81			
N- M	0 / 1443	-17.5	-17.5	0.44 (4)	10.00			
M- L	0 / 1465	-17.5	-17.5	0.45 (4)	10.00			
L- K	0 / 1465	-17.5	-17.5	0.45 (4)	10.00			
K- J	0 / 1443	-17.5	-17.5	0.44 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	31.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.22")

CSI: TC=0.38/1.00 (B-C:1) , BC=0.45/1.00 (K-M:4) , WB=0.67/1.00 (C-N:1) , SSI=0.25/1.00 (D-E: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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)
JSI METAL= 0.61 (C) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D7	2	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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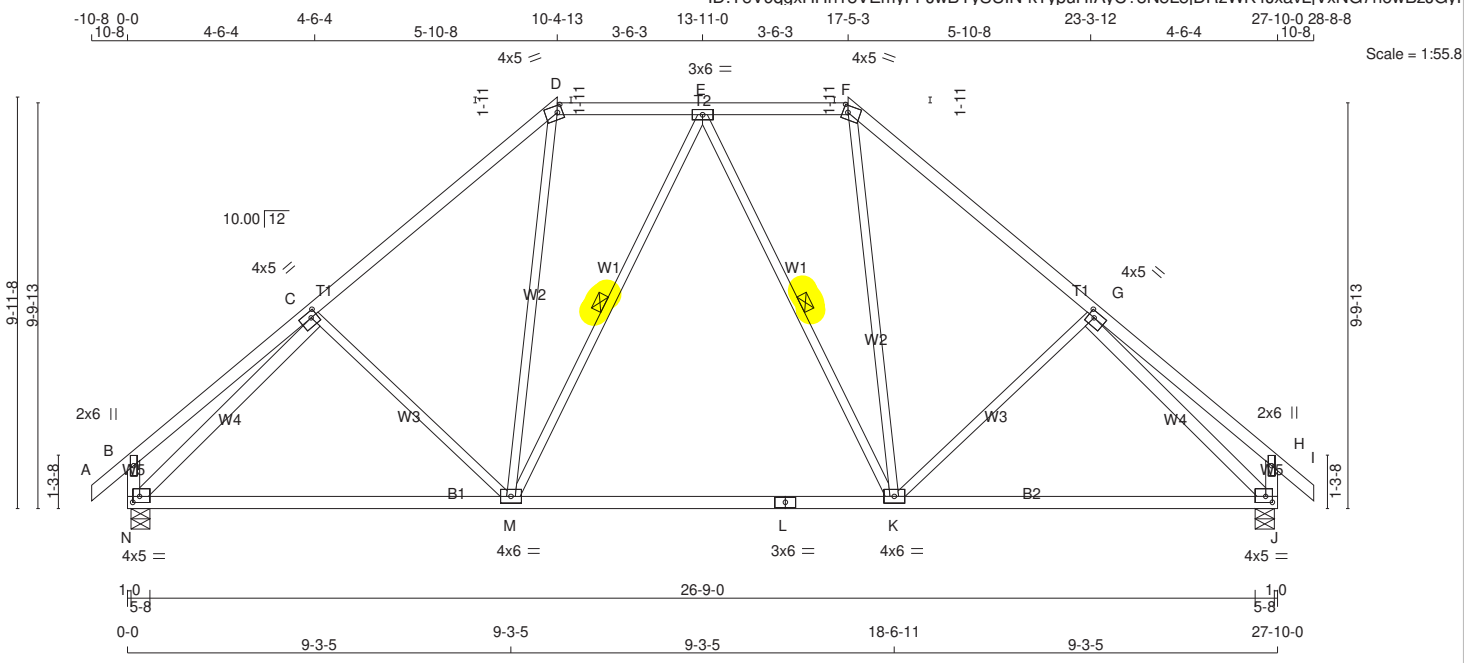

TOTAL WEIGHT = 2 X 132 = 264 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
N - C	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	5.0	1.75	1.75
D	TTW-m	MT20	4.0	5.0	2.00	1.50
E	TMWW-t	MT20	3.0	6.0		
F	TTW-m	MT20	4.0	5.0	2.00	1.50
G	TMWW-t	MT20	4.0	5.0	1.75	1.75
H	TMV+p	MT20	2.0	6.0		
J	BMVW1-t	MT20	4.0	5.0	1.75	2.00
K	BMWWW-t	MT20	4.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMWWW-t	MT20	4.0	6.0		
N	BMVW1-t	MT20	4.0	5.0	1.75	2.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
N	1866	0	1866	0	0	5-8	2-0
J	1866	0	1866	0	0	5-8	2-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
J	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.54 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF E-M, E-K.

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)

CHORDS MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB.	FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- M	-299 / 0	0.25 (1)
B- C	0 / 55	-109.0	-109.0	0.52 (1)	10.00	M- D	0 / 637	0.14 (1)
C- D	-1661 / 0	-109.0	-109.0	0.54 (1)	4.54	M- E	-276 / 0	0.23 (1)
D- E	-1175 / 0	-109.0	-109.0	0.17 (1)	5.71	E- K	-276 / 0	0.23 (1)
E- F	-1175 / 0	-109.0	-109.0	0.17 (1)	5.71	F- K	0 / 637	0.14 (1)
F- G	-1661 / 0	-109.0	-109.0	0.54 (1)	4.54	K- G	-299 / 0	0.25 (1)
G- H	0 / 55	-109.0	-109.0	0.52 (1)	10.00	N- C	-2128 / 0	0.68 (1)
H- I	0 / 34	-109.0	-109.0	0.07 (1)	10.00	G- J	-2128 / 0	0.68 (1)
N- B	-259 / 0	0.0	0.0	0.03 (1)	7.81			
J- H	-259 / 0	0.0	0.0	0.03 (1)	7.81			
N- M	0 / 1467	-17.5	-17.5	0.45 (4)	10.00			
M- L	0 / 1296	-17.5	-17.5	0.44 (4)	10.00			
L- K	0 / 1296	-17.5	-17.5	0.44 (4)	10.00			
K- J	0 / 1467	-17.5	-17.5	0.45 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	31.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21")

CSI: TC=0.54/1.00 (C-D:1) , BC=0.45/1.00 (M-N:4) , WB=0.68/1.00 (C-N:1) , SSI=0.23/1.00 (C-D: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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.62 (C) (INPUT = 1.00)

this seal is for this structural component only
Refer to FT2009

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	D8	1	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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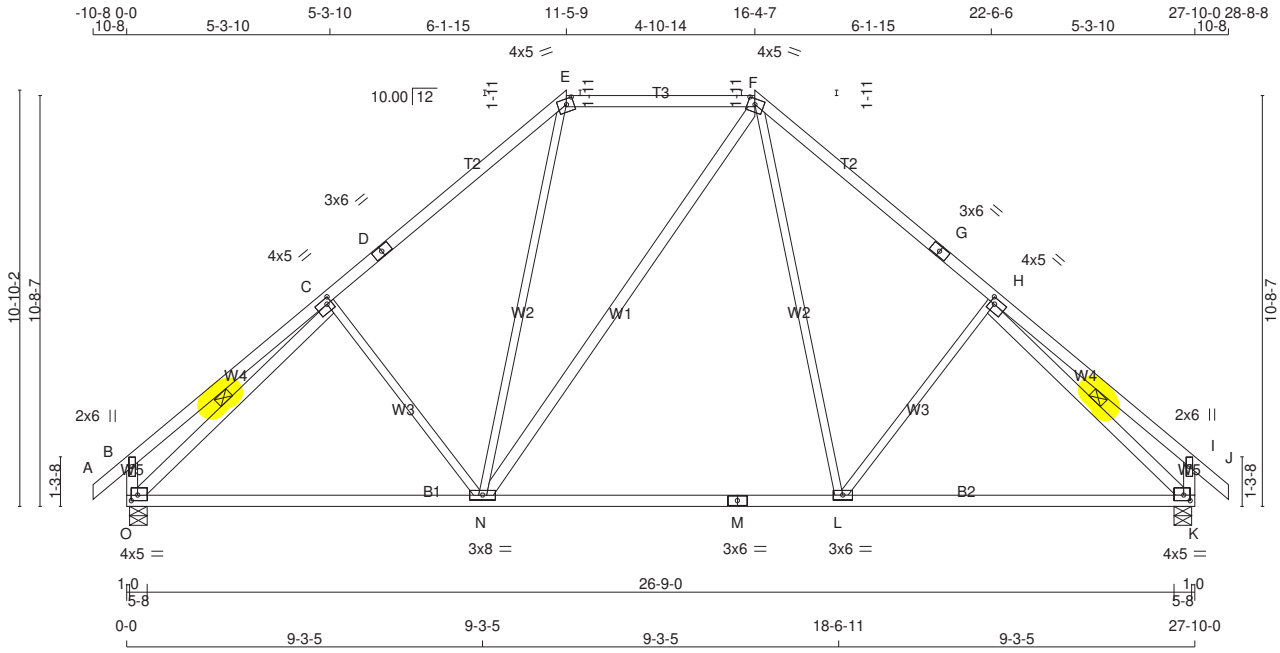

TOTAL WEIGHT = 134 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
O - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
C - N	2x3	DRY	No.2	SPF
N - E	2x3	DRY	No.2	SPF
F - L	2x3	DRY	No.2	SPF
L - H	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
C	TMWW-t	MT20	4.0	5.0	1.75	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	5.0	1.75	2.25
F	TTWW-m	MT20	4.0	5.0	1.75	2.25
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	5.0	1.75	1.50
I	TMV+p	MT20	2.0	6.0		
K	BMVW1-t	MT20	4.0	5.0	1.75	2.00
L	BMWW-t	MT20	3.0	6.0		
M	BS-t	MT20	3.0	6.0		
N	BMWWW-t	MT20	3.0	8.0		
O	BMVW1-t	MT20	4.0	5.0	1.75	2.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
O	1866	0	1866	0	0	5-8	2-0
K	1866	0	1866	0	0	5-8	2-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	MAX./MIN. COMPONENT REACTIONS PERM.LIVE	WIND	DEAD	SOIL
O	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0
K	1306	933 / 0	0 / 0	0 / 0	0 / 0	373 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.46 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 LATERAL BRACE(S) AT 1/ 2 LENGTH OF C-O, H-K.

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)

CHORDS MEMB. FR-TO	FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	FORCE (LBS)	MAX CSI (LC)
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00	C- N	-382 / 0	0.31 (1)
B- C	0 / 54	-109.0	-109.0	0.60 (1)	10.00	N- E	0 / 490	0.11 (1)
C- D	-1649 / 0	-109.0	-109.0	0.60 (1)	4.46	N- F	0 / 0	0.00 (1)
D- E	-1649 / 0	-109.0	-109.0	0.60 (1)	4.46	F- L	0 / 490	0.11 (1)
E- F	-1135 / 0	-109.0	-109.0	0.36 (1)	5.52	L- H	-382 / 0	0.31 (1)
F- G	-1649 / 0	-109.0	-109.0	0.60 (1)	4.46	O- C	-2100 / 0	0.54 (1)
G- H	-1649 / 0	-109.0	-109.0	0.60 (1)	4.46	H- K	-2100 / 0	0.54 (1)
H- I	0 / 54	-109.0	-109.0	0.60 (1)	10.00			
I- J	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
O- B	-302 / 0	0.0	0.0	0.03 (1)	7.81			
K- I	-302 / 0	0.0	0.0	0.03 (1)	7.81			
O- N	0 / 1471	-17.5	-17.5	0.45 (4)	10.00			
N- M	0 / 1135	-17.5	-17.5	0.43 (4)	10.00			
M- L	0 / 1135	-17.5	-17.5	0.43 (4)	10.00			
L- K	0 / 1471	-17.5	-17.5	0.45 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.22")

CSI: TC=0.60/1.00 (H-I:1) , BC=0.45/1.00 (N-O:4) , WB=0.54/1.00 (C-O:1) , SSI=0.24/1.00 (F-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 = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.63 (C) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JB1	7	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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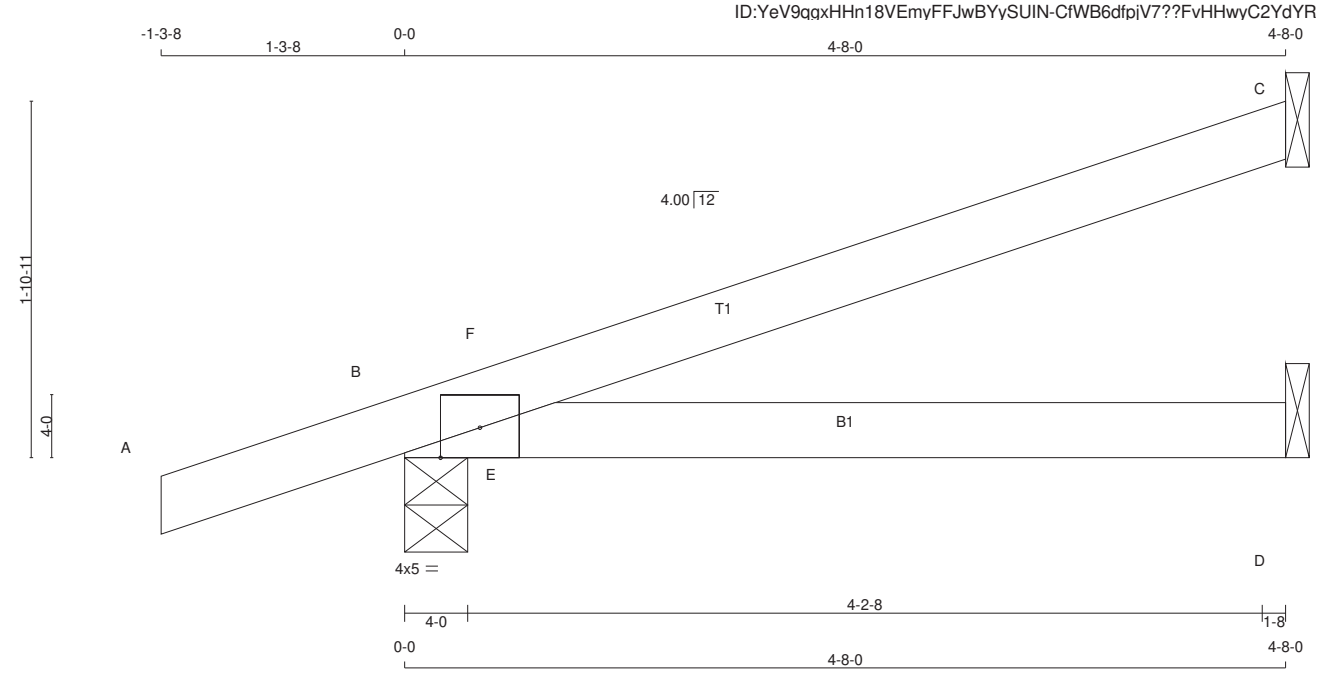

TOTAL WEIGHT = 7 X 13 = 88 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	4.0	5.0	Edge	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
C	219	0	219	0	0	1-8	1-8
B	441	0	441	0	0	4-0	1-8
D	76	0	76	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	151	122 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
B	307	230 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0
D	56	24 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0

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

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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 21	-109.0	-109.0	0.14 (1)	10.00	E- F	-275 / 5	0.00 (1)
B- F	-14 / 7	-109.0	-109.0	0.05 (4)	6.25			
F- C	0 / 2	-109.0	-109.0	0.30 (1)	10.00			
B- E	0 / 0	-17.5	-17.5	0.22 (1)	10.00			
E- D	0 / 0	-17.5	-17.5	0.22 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 842 (0.07")

CSI: TC=0.30/1.00 (C-F:1) , BC=0.22/1.00 (B-E:1) , WB=0.00/1.00 (E-F:1) , SSI=0.22/1.00 (B-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

this seal is for this structural component only
Refer to FT2009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JB2	2	1	36-01-A TRUSS DESC.	

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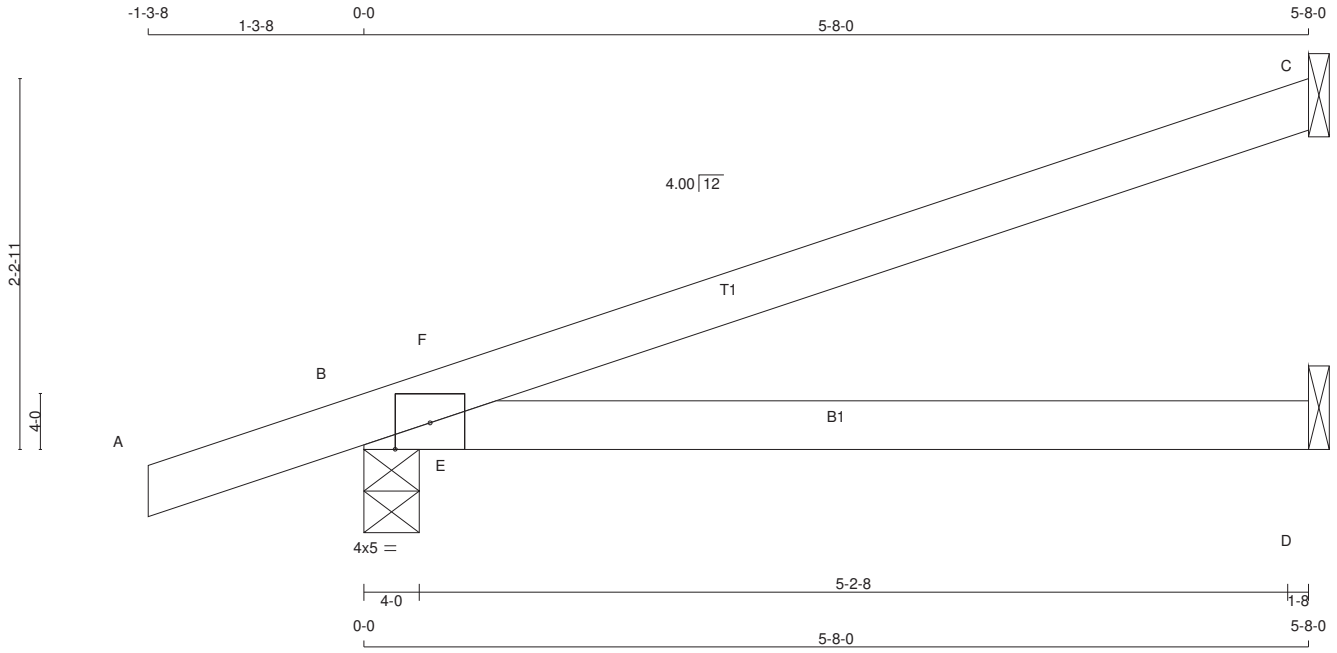

TOTAL WEIGHT = 2 X 15 = 30 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	4.0	5.0	Edge	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	268	0	268	0	0	1-8	1-8
B	504	0	504	0	0	4-0	1-8
D	91	0	91	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	184	150 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
B	351	261 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0
D	67	28 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0

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

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: (4)

CHORDS						WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)		MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
A- B	0 / 21	-109.0	-109.0	0.14 (1)	10.00	E- F	-389 / 7	0.00 (1)
B- F	-18 / 26	-109.0	-109.0	0.06 (1)	6.25			
F- C	-3 / 2	-109.0	-109.0	0.45 (1)	10.00			
B- E	0 / 0	-17.5	-17.5	0.32 (1)	10.00			
E- D	0 / 0	-17.5	-17.5	0.32 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 911 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 481 (0.14")

CSI: TC=0.45/1.00 (C-F:1) , BC=0.32/1.00 (B-E:1) , WB=0.00/1.00 (E-F:1) , SSI=0.31/1.00 (B-E: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

this seal is for this structural component only
Refer to FT2009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JD1	17	1	36-01-A TRUSS DESC.	

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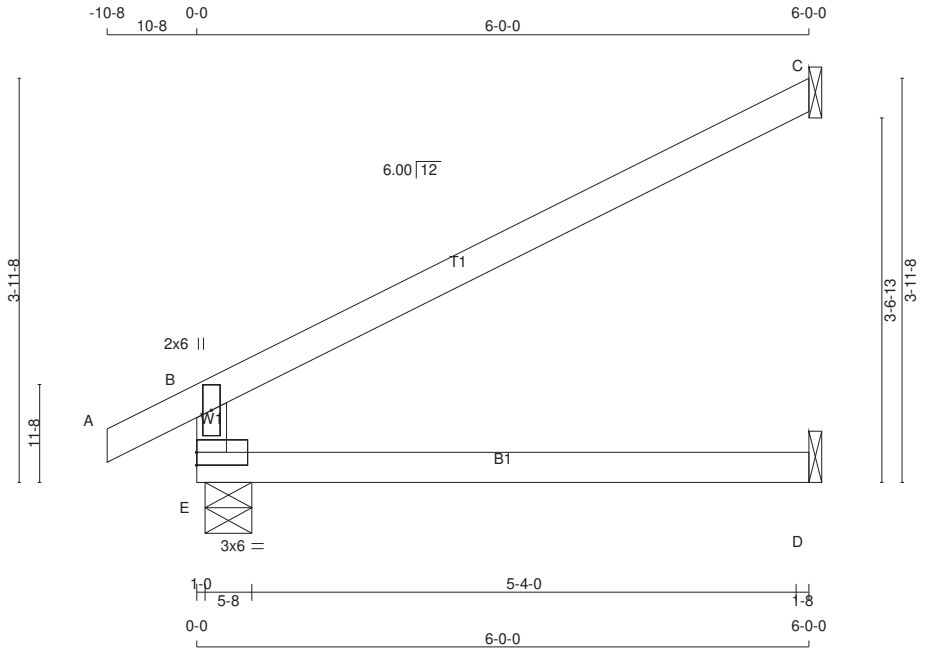

TOTAL WEIGHT = 17 X 16 = 278 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
E	BMV1-I	MT20	3.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	574	0	574	0	0	5-8	1-8
C	245	0	245	0	0	1-8	1-8
D	43	0	48	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	400	294 / 0	0 / 0	0 / 0	0 / 0	106 / 0	0 / 0
C	168	141 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	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.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-511 / 0	0.0	0.0	0.11 (4)	7.81			
A- B	0 / 23	-109.0	-109.0	0.07 (1)	10.00			
B- C	-37 / 0	-109.0	-109.0	0.51 (1)	6.25			
E- D	0 / 0	-17.5	-17.5	0.14 (4)	10.00			

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

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

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.51/1.00 (B-C:1) , BC=0.14/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.29/1.00 (B-C: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (E) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
G. XHAFA
100089397
PROVINCE OF ONTARIO
May 6, 2019

this seal is for this structural component only
Refer to FT2009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JD2	3	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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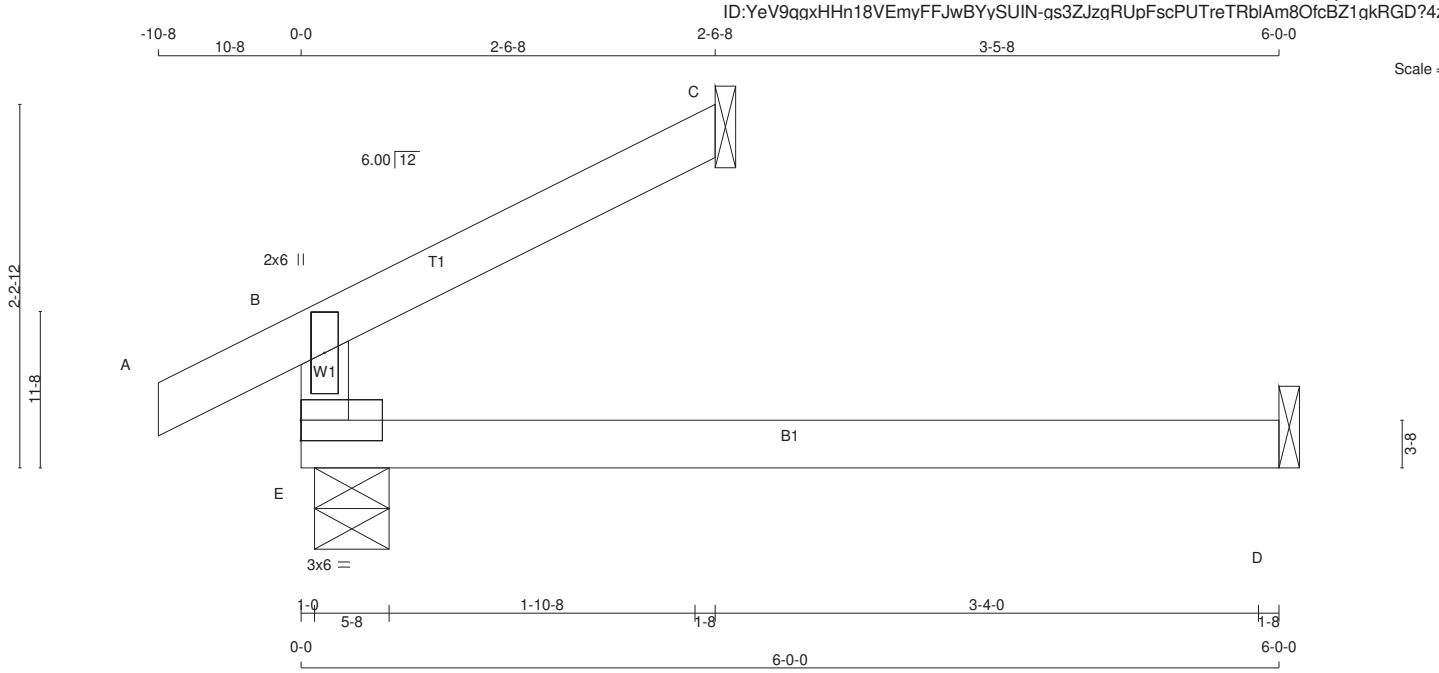

TOTAL WEIGHT = 3 X 12 = 36 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
E	BMV1-I	MT20	3.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	338	0	338	0	0	5-8	1-8
C	104	0	104	0	0	1-8	1-8
D	43	0	48	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	239	158 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
C	71	60 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

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: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM (PLF)	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-275 / 0	0.0	0.0	0.11 (4)	7.81			
A- B	0 / 23	-109.0	-109.0	0.07 (1)	10.00			
B- C	-15 / 0	-109.0	-109.0	0.09 (1)	6.25			
E- D	0 / 0	-17.5	-17.5	0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

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

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.11/1.00 (B-E:4) , BC=0.14/1.00 (D-E:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.12/1.00 (B-C: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

this seal is for this structural component only
Refer to FT2009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JD3	3	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

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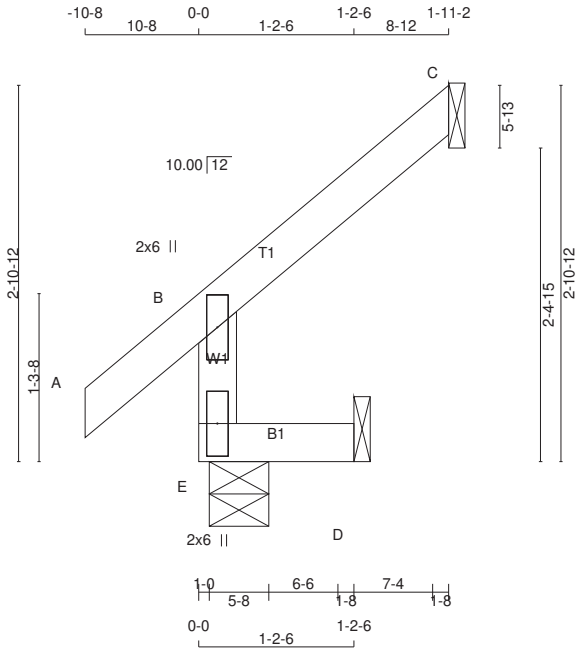

TOTAL WEIGHT = 3 X 7 = 20 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER		DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0		
E	BMV1+p	MT20	2.0	6.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
E	247	0	247	0	0	5-8	1-8
C	79	0	79	0	0	1-8	1-8
D	10	0	11	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	171	136 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
C	54	46 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	8	0 / 0	0 / 0	0 / 0	0 / 0	8 / 0	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.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
E- B	-236 / 0	0.0	0.0	0.00 (4)	7.81			
A- B	0 / 34	-109.0	-109.0	0.07 (1)	10.00			
B- C	-16 / 0	-109.0	-109.0	0.07 (1)	6.25			
E- D	0 / 0	-17.5	-17.5	0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	31.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	44.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

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

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.07/1.00 (A-B:1) , BC=0.01/1.00 (D-E:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.08/1.00 (B-C: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
36-01-A	JD4	1	1	36-01-A TRUSS DESC.	

Watford Roof Truss, Watford, Ont.

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Mon May 6 09:34:37 2019 Page 1

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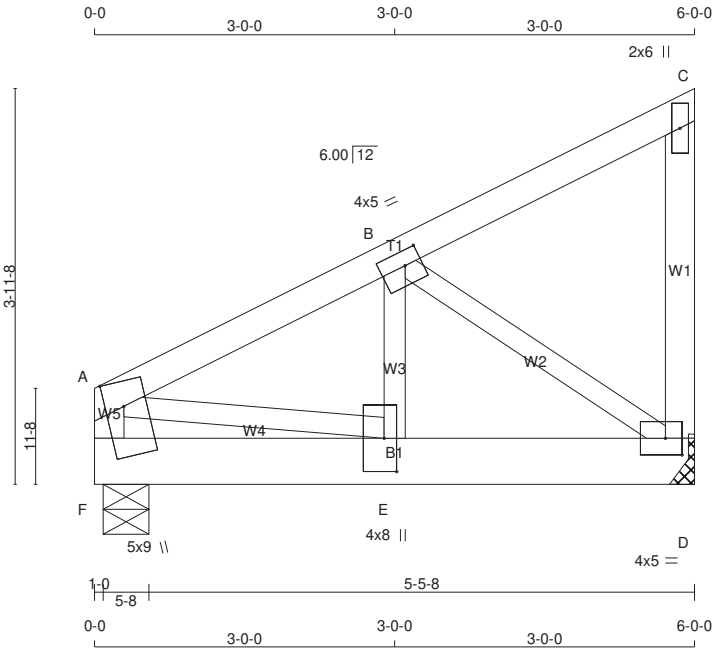


Scale = 1:23.0

TOTAL WEIGHT = 29 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER		DESCR.
F - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - D	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A						
B	TMWW-t	MT20	4.0	5.0	1.75	2.00
C	TMV+p	MT20	2.0	6.0		
D	BMVW1-t	MT20	4.0	5.0	2.00	2.00
E	BMWW+t	MT20	4.0	8.0	4.00	1.50
F						
F	TMBMVW1*+m	MT20	5.0	9.0	3.00	2.25

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
F	1601	0	1601	0	0	5-8	2-12
D	1601	0	1601	0	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT D TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1122	793 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
D	1122	793 / 0	0 / 0	0 / 0	0 / 0	329 / 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 = 5.17 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)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
F- A	-1059 / 0	0.0	0.0	0.12 (1)	7.62	A- E	0 / 1368	0.34 (1)
A- B	-1489 / 0	-109.0	-109.0	0.17 (1)	5.17	E- B	0 / 1211	0.30 (1)
B- C	-13 / 0	-109.0	-109.0	0.13 (1)	6.25	B- D	-1632 / 0	0.38 (1)
D- C	-134 / 0	0.0	0.0	0.03 (1)	7.81			
F- E	0 / 0	-424.6	-424.6	0.25 (1)	10.00			
E- D	0 / 1344	-424.6	-424.6	0.43 (1)	10.00			

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	31.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.3	PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 15-4-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 15-4-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 41.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 31.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.17/1.00 (A-B:1) , BC=0.43/1.00 (D-E:1) , WB=0.38/1.00 (B-D:1) , SSI=0.49/1.00 (E-F: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

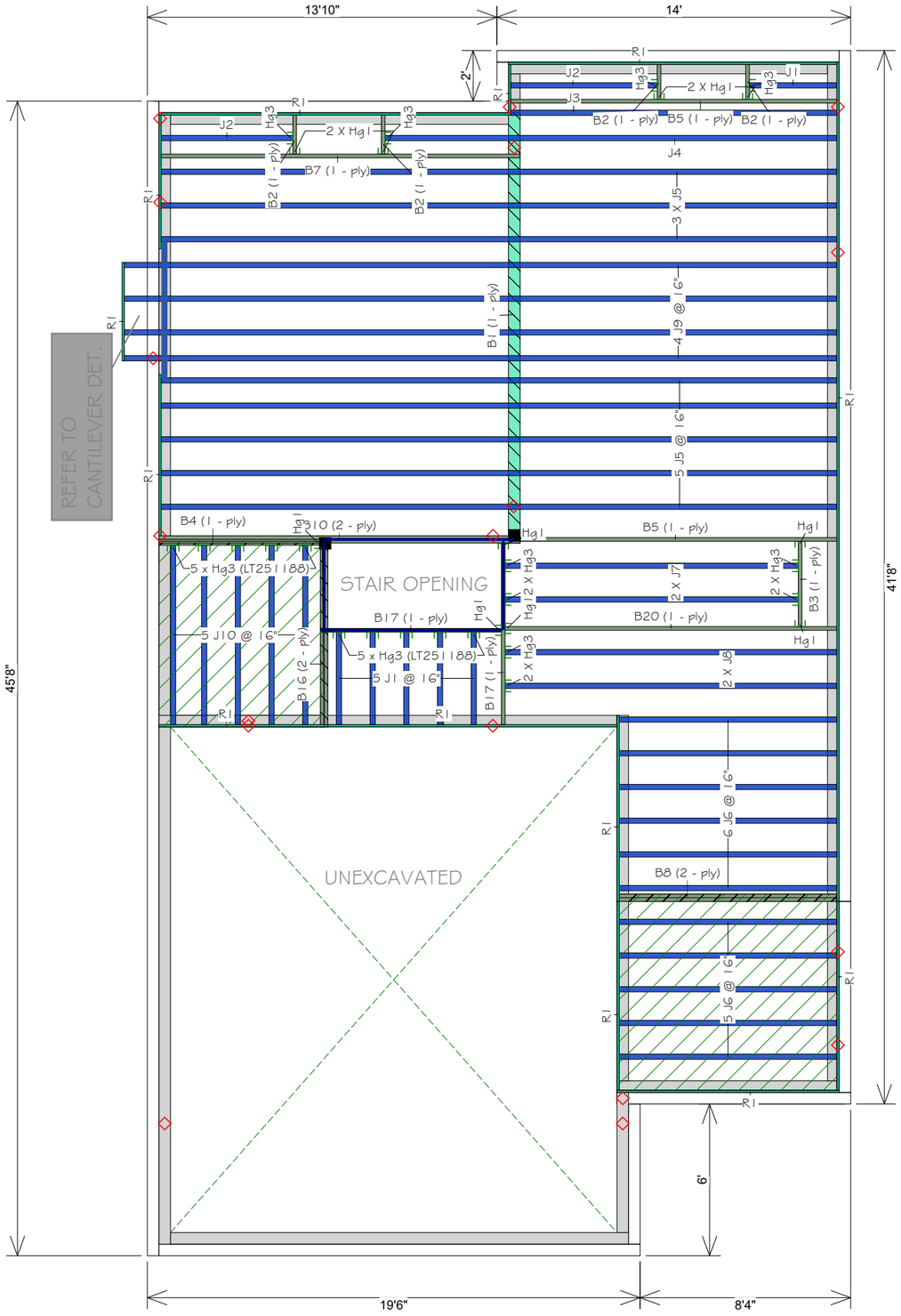
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

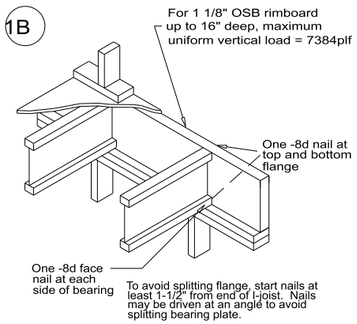
JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.48 (F) (INPUT = 1.00)

Lot 3 Vincent Drive - 36-01A

Ground Floor Framing
REVISION 1
05.03.2019



1B



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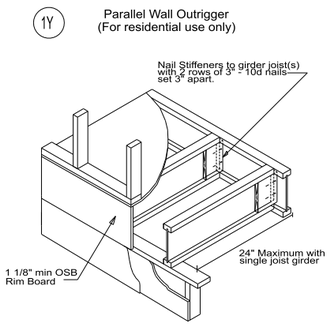

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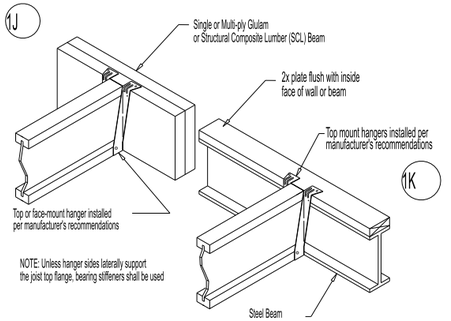
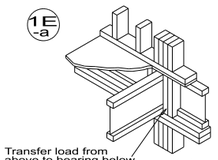


1K

1E -a

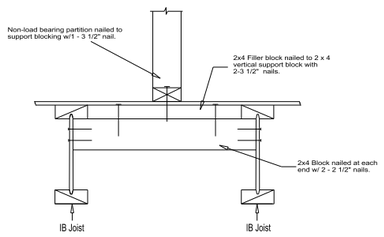


Maximum factored vertical load per pair of squash blocks as shown (lbs)

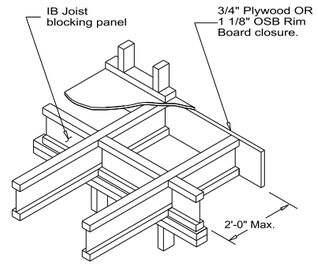
Pair of Squash Blocks	3 1/2" wide		5 1/2" wide	
	up to 16" tall	18-24" tall	up to 16" tall	18-24" tall
2x lumber	5500	5500	8700	8700
1 1/8" APA OSB Rim Board	4100	2900	6500	4600
1 1/8" IB OSB Rim Board Plus	4100	3100	6500	4900

1V

Parallel Partition Detail

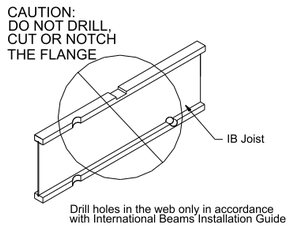


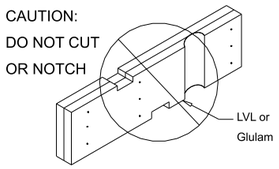
Insert blocking detail @ 24" o.c. (Typical)



Load Bearing Cantilever Detail N
(Reinforcing not required)

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.





Ground Floor	
Design Method	LSD
Building Code	NBCC 2015 / OBC 2012
Floor	
Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Deflection Girder	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Decking	
Deck	SPF Plywood
Thickness	5/8"
Fastener	Nailed & Glued
Vibration	

MOFFATT & POWELL
RONA

Dealer Address
MOFFATT POWELL
1282 Hyde Park Rd.
London, Ontario
N6H 5K5

Project
20181667 - 18-0458 A - 36-01A

Dealer
MOFFATT & POWELL LTD

Layout Name
18-0458 A - Lot 3 Vincent Drive - 36-01A

Design Method
LSD

Created
April 19, 2018

Designer
Aaron Scherle

Revised
May 03, 2019

Ground Floor

I Joist

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J9	MAX-CORE IB400	2.5	11.875			4	29-0-0
J5	MAX-CORE IB400	2.5	11.875			8	27-0-0
J4	MAX-CORE IB400	2.5	11.875			1	18-0-0
J8	MAX-CORE IB400	2.5	11.875			2	14-0-0
J3	MAX-CORE IB400	2.5	11.875			1	13-0-0
J7	MAX-CORE IB400	2.5	11.875			2	12-0-0
J6	MAX-CORE IB400	2.5	11.875			11	9-0-0
J10	MAX-CORE IB400	2.5	11.875			5	8-0-0
J2	MAX-CORE IB400	2.5	11.875			2	6-0-0
J1	MAX-CORE IB400	2.5	11.875			6	4-0-0

LVL/LSL

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
B10	West Fraser 2.0 LVL	1.75	11.875	1	2	2	15-0-0
B7	West Fraser 2.0 LVL	1.75	11.875			1	15-0-0
B20	West Fraser 2.0 LVL	1.75	11.875			1	14-0-0
B5	West Fraser 2.0 LVL	1.75	11.875			2	13-0-0
B8	West Fraser 2.0 LVL	1.75	11.875	1	2	2	9-0-0
B16	West Fraser 2.0 LVL	1.75	11.875	1	2	2	8-0-0
B17	West Fraser 2.0 LVL	1.75	11.875			2	8-0-0
B4	West Fraser 2.0 LVL	1.75	11.875			1	7-0-0
B3	West Fraser 2.0 LVL	1.75	11.875			1	4-0-0
B2	West Fraser 2.0 LVL	1.75	11.875			4	2-0-0

Rim Board

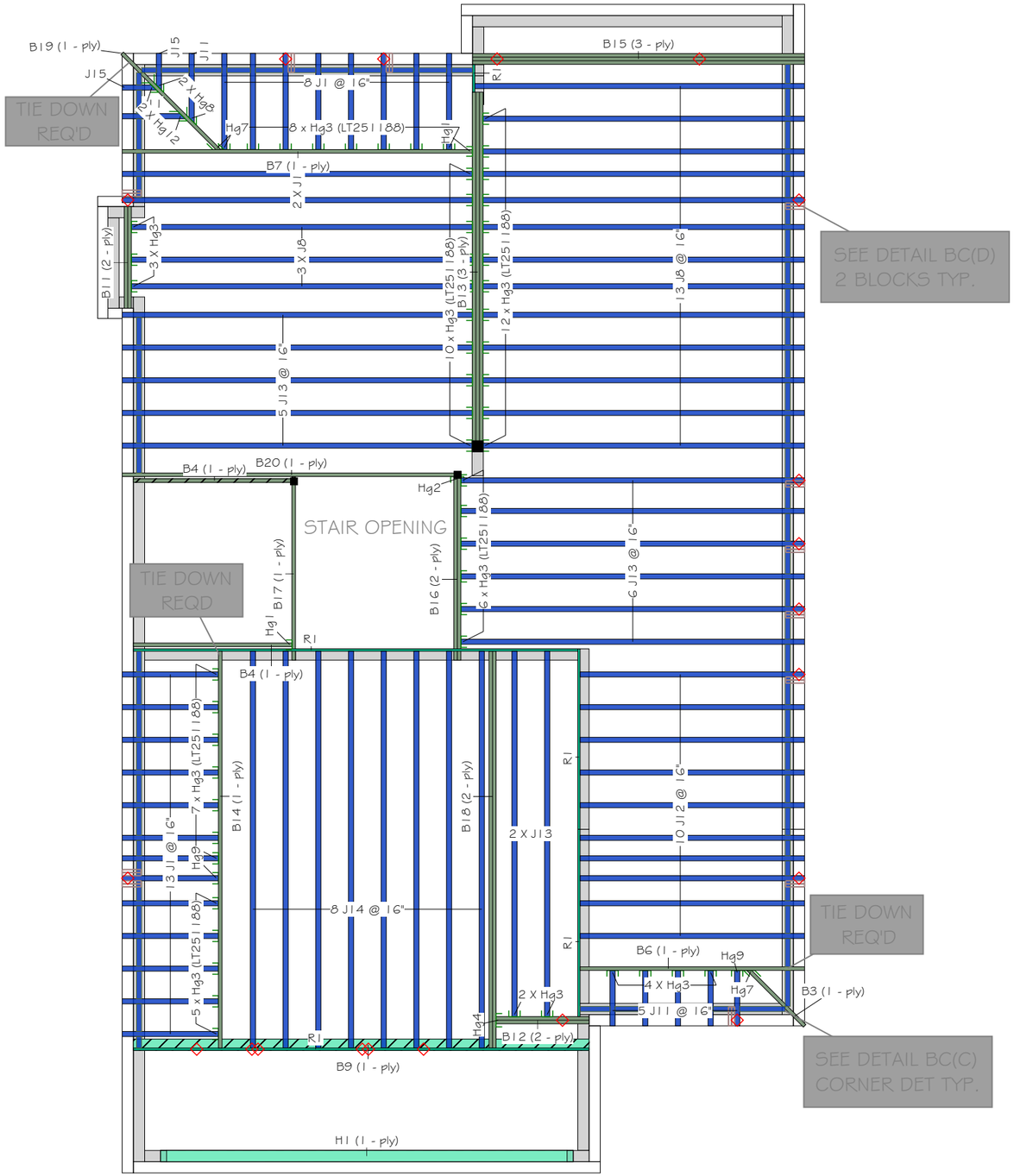
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 11.875	1.125	11.875			11	12

Blocking

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	IB400	2.5	11.875	LinFt		Varies	5-0-0

Hanger

					Beam/Girder	Supported Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
Hg1	10	HUS1.81/10			30 16d	10 16d
Hg3	20	LT251188			4 10dx1 1/2	2 10dx1 1/2



Lot 3 Vincent Drive - 36-01A

Second Floor Framing
REVISION 1
05.03.2019

Second Floor	
Design Method	LSD
Building Code	NBCC 2015 / OBC 2012
Floor	
Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Deflection Girder	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Decking	
Deck	SPF Plywood
Thickness	5/8"
Fastener	Nailed & Glued
Vibration	
Ceiling:	Gypsum 1/2"

MOFFATT & POWELL
RONA

Dealer Address
MOFFATT POWELL
1282 Hyde Park Rd.
London, Ontario
N6H 5K5

Project
20181667 - 18-0458 A - 36-01A

Dealer
MOFFATT & POWELL LTD

Layout Name
18-0458 A - Lot 3 Vincent Drive - 36-01A

Design Method
LSD

Created
April 19, 2018

Designer
Aaron Scherle

Revised
May 03, 2019

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Lot 3 Vincent Drive - 36-01A

Second Floor Details & BOM
REVISION 1
05.03.2019

Second Floor	
Design Method	LSD
Building Code	NBCC 2015 / OBC 2012
Floor	
Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Deflection Girder	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Decking	
Deck	SPF Plywood
Thickness	5/8"
Fastener	Nailed & Glued
Vibration	
Ceiling:	Gypsum 1/2"

MOFFATT & POWELL
RONA

Dealer Address
MOFFATT POWELL
1282 Hyde Park Rd.
London, Ontario
N6H 5K5

Project
20181667 - 18-0458 A - 36-01A

Dealer
MOFFATT & POWELL LTD

Layout Name
18-0458 A - Lot 3 Vincent Drive - 36-01A

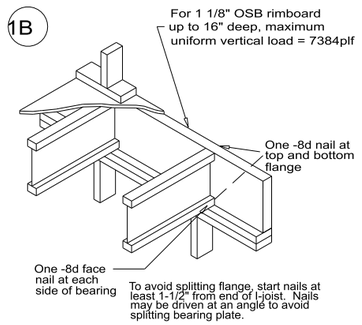
Design Method
LSD

Created
April 19, 2018

Designer
Aaron Scherle

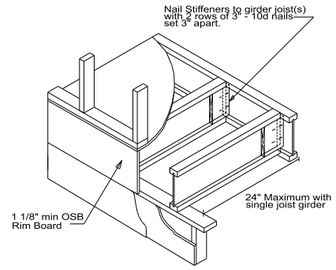
Revised
May 03, 2019

1B



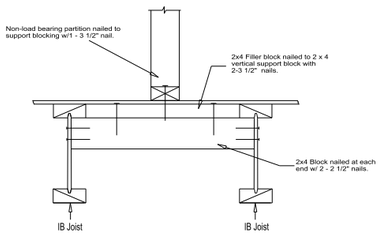
1Y

Parallel Wall Outrigger
(For residential use only)



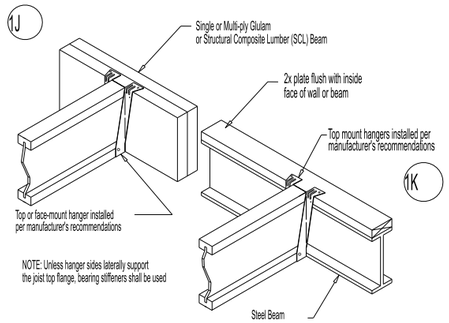
1V

Parallel Partition Detail



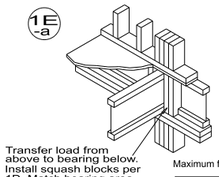
Insert blocking detail @ 24" o.c. (Typical)

1J



1K

1E -a



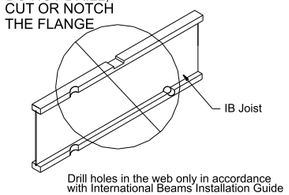
Transfer load from above to bearing below. Install squash blocks per 1D. Match bearing area of blocks below to post above.

Provide lateral bracing per 1A, 1B or 1C

Maximum factored vertical load per pair of squash blocks as shown (lbs)

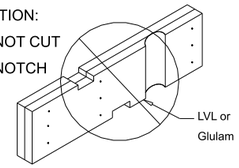
Pair of Squash Blocks	3 1/2" wide		5 1/2" wide	
	up to 16" tall	18-24" tall	up to 16" tall	18-24" tall
2x lumber	5500	5500	8700	8700
1 1/8" APA OSB Rim Board	4100	2900	6500	4600
1 1/8" IB OSB Rim Board Plus	4100	3100	6500	4900

CAUTION:
DO NOT DRILL,
CUT OR NOTCH
THE FLANGE

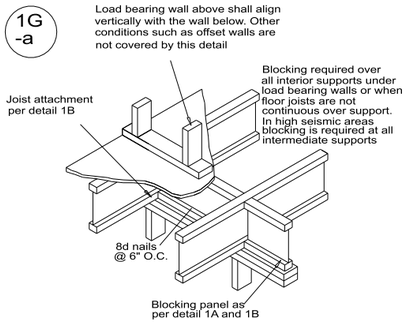


Drill holes in the web only in accordance with International Beams Installation Guide

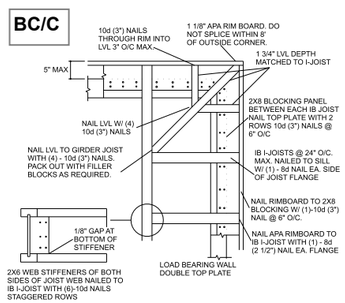
CAUTION:
DO NOT CUT
OR NOTCH



1G -a

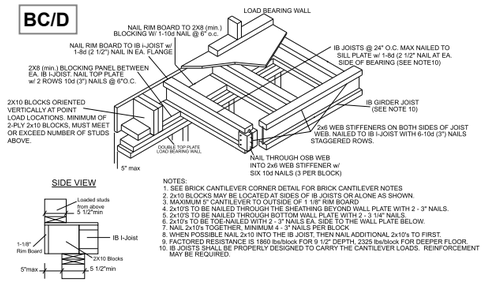


BC/C



NOTES:
1. THIS DETAIL IS APPLICABLE TO RESIDENTIAL APPLICATIONS ONLY.
2. IB I-JOISTS AND LVL SHALL BE PROPERLY DESIGNED TO CARRY THE CANTILEVERED LOADS.
3. MAX. UPLIFT AT BACKSPAN SHALL BE LIMITED TO 200LBS (UNFACTORED). 350LBS (FACTRD)
4. GIRDERS SHALL BE PROPERLY DESIGNED TO CARRY JOIST LOAD. MULTI-JOIST CONSTRUCTION MAY BE REQUIRED.
5. INDICATED NAILS ARE BOX NAILS OR EQUIVALENT.
8d min. 0.113"x2 1/2" LONG
10d MIN. 0.128"x3" LONG
6. FULL DEPTH BLOCKING PANELS MAY BE INSTALLED DIRECTLY OVER WALL INSTEAD OF FLAT 2X8 BLOCKING SHOWN.
7. DETAIL SHOWN IS ADEQUATE FOR LATERAL STABILITY OF THE I-JOIST ITSELF. ADDITIONAL LATERAL RESISTANCE MAY BE REQUIRED IN HIGH WIND AND/OR SEISMIC AREAS. CONSULT WITH PROJECT DESIGN PROFESSIONAL.

BC/D



SIDE VIEW

NOTES:
1. SEE BRICK CANTILEVER CORNER DETAIL FOR BRICK CANTILEVER NOTES
2. 2x10 BLOCKS MAY BE LOCATED AT SIDES OF IB JOISTS ON ALONE AS SHOWN.
3. MAXIMUM 5" CANTILEVER TO OUTSIDE OF 1 1/8" RIM BOARD.
4. 2x10'S TO BE NAILED THROUGH THE SHEATHING BEYOND WALL PLATE WITH 2 - 3" NAILS.
5. 2x10'S TO BE NAILED THROUGH BOTTOM WALL PLATE WITH 2 - 3 1/4" NAILS.
6. 2x10'S TO BE TOE-NAILED WITH 2 - 3" NAILS EA. SIDE TO THE WALL PLATE BELOW.
7. NAIL 2x10's TOGETHER, MINIMUM 4 - 3" NAILS PER BLOCK
8. WHEN POSSIBLE NAIL 2x10 INTO THE IB JOIST, THEN NAIL ADDITIONAL 2x10's TO FIRST.
9. FACTORED RESISTANCE IS 1860 lbs/block FOR 9 1/2" DEPTH, 2325 lbs/block FOR DEEPER FLOOR.
10. IB JOISTS SHALL BE PROPERLY DESIGNED TO CARRY THE CANTILEVER LOADS. REINFORCEMENT MAY BE REQUIRED.

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Second Floor
I Joist

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J14	MAX-CORE IB400	2.5	11.875			8	17-0-0
J13	MAX-CORE IB400	2.5	11.875			15	15-0-0
J8	MAX-CORE IB400	2.5	11.875			16	14-0-0
J12	MAX-CORE IB400	2.5	11.875			10	10-0-0
J1	MAX-CORE IB400	2.5	11.875			21	4-0-0
J11	MAX-CORE IB400	2.5	11.875			7	3-0-0
J15	MAX-CORE IB400	2.5	11.875			2	2-0-0

LVL/LSL

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
B18	West Fraser 2.0 LVL	1.75	11.875	1	2	2	17-0-0
B14	West Fraser 2.0 LVL	1.75	11.875			1	17-0-0
B13	West Fraser 2.0 LVL	1.75	11.875	1	3	3	15-0-0
B7	West Fraser 2.0 LVL	1.75	11.875			1	15-0-0
B15	West Fraser 2.0 LVL	1.75	11.875	1	3	3	14-0-0
B20	West Fraser 2.0 LVL	1.75	11.875			1	14-0-0
B6	West Fraser 2.0 LVL	1.75	11.875			1	10-0-0
B16	West Fraser 2.0 LVL	1.75	11.875	1	2	2	8-0-0
B17	West Fraser 2.0 LVL	1.75	11.875			1	8-0-0
B4	West Fraser 2.0 LVL	1.75	11.875			2	7-0-0
B19	West Fraser 2.0 LVL	1.75	11.875			1	6-0-0
B11	West Fraser 2.0 LVL	1.75	11.875	1	2	2	5-0-0
B12	West Fraser 2.0 LVL	1.75	11.875	1	2	2	4-0-0
B3	West Fraser 2.0 LVL	1.75	11.875			1	4-0-0

Rim Board

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 11.875	1.125	11.875			5	12

Blocking

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	IB400	2.5	11.875	LinFt		Varies	75-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
Hg1	2	HUS1.81/10			30 16d	10 16d
Hg2	1	HUC410 (Min)			14 10dx1 1/2	6 10d
Hg3	57	LT251188			4 10dx1 1/2	2 10dx1 1/2
Hg4	1	HHUS410			30 16d	10 16d
Hg7	2	SUR1.81/9 (Min)	Right		12 10dx1 1/2	2 10dx1 1/2
Hg8	2	SUR2.56/9 (Max)	Right		14 10dx1 1/2	6 10dx1 1/2
Hg9	2	THAI322 (Max)			20 10dx1 1/2	2 10dx1 1/2
Hg12	2	SUL2.56/9 (Max)	Left		14 10dx1 1/2	6 10dx1 1/2

Stantec Consulting Ltd.
100-300 Hagey Boulevard, Waterloo ON N2L 0A4

May 15, 2019
File: 1603-11282/LG

DIGITAL SUBMISSION VIA EMAIL ONLY

Attention: Mr. Ray Di Donato, P.Eng.
839658 Ontario Inc.
c/o Tice River Homes
1919 Albion Road
Etobicoke ON M9W 6J9

Dear Mr. Di Donato:

Reference: Approved Lot Development Plan, Township of North Dumfries
Lot #: 3, Vincent Drive, R.P. 58M-XXX
Legacy Subdivision

We have reviewed the proposed detailed grading plan for the above mentioned Lot and find it to be in general conformance to the approved overall grading plan for the subdivision.

Please be advised there is a pedestal located along the Lot Lines of Lots 3/4. The site development plan does not provide as-built locations for this item. This site development plan approval is on the basis that the builder provides 1.5 m clearance from the edge of the constructed driveway. **Should adequate clearance not be provided, it will be at the builder's cost to adjust the driveway to provide the minimum clearance or pay for the cost to have the item relocated.**

Please be aware that the legal plans for this subdivision have not yet been registered and that the approval of this site plan is contingent upon plan registration.

After the Lot is graded and sodded, please contact the undersigned for a topographic survey of the property, which will enable the issuance of our Lot Grading Conformance.

Regards,

STANTEC CONSULTING LTD.

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Kathy Schumann
Lot Grading Administrator
Community Development
Phone: (519) 585-7441 / Fax: (519) 579-6733
kathy.schumann@stantec.com

Attachment: Stamped Approved LDP

c. Mr. Adam Miller, Township of North Dumfries
Mr. Tony Weiler, Tice River Homes
Mr. Rod Lord, MacDonald-Tamblyn Surveying Ltd. Inc.

sk w:\active\160311282\construction\correspondence\lot grading\spa letter\let_lot 3 vincentdrive_ticeriver_20170515_ks.docx

NOTES:

1. THIS PLAN MUST BE READ IN CONJUNCTION WITH THE APPROVED LOT GRADING PLAN.
2. LOT DIMENSIONS ARE AS SHOWN ON REGISTERED PLAN xxM-xxx AND HAVE NOT BEEN VERIFIED BY SURVEY. PROPOSED BUILDING POSITIONED BY CALCULATION, NOT BY ACTUAL SURVEY.
3. THE POSITION OF ALL POLE LINES, CONDUITS, WATER MAINS, SEWERS AND OTHER UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THIS PLAN, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
4. ELEVATIONS SHOWN HEREON ARE IN ACCORDANCE WITH THE LOT GRADING PLAN FOR REGISTERED PLAN xxM-xxx AND ARE PROPOSED.

[300.00]	DENOTES PROPOSED GRADE BY MacDONALD TAMBLYN LORD SURVEYING
300.00	DENOTES PROPOSED ELEVATION
——→——	DENOTES DIRECTION OF DRAINAGE
∘	DENOTES IRON PIN TO BE SET ON SITE
T.F.	DENOTES TOP OF FOUNDATION
U.S.F.	DENOTES UNDERSIDE OF FOOTINGS
F.B.F.	DENOTES BASEMENT FLOOR
P.R.V	DENOTES PRESSURE REDUCING VALVE
INFIL	DENOTES INFILTRATION GALLERY

SKETCH

PREPARED FOR BUILDING PERMIT APPLICATION

SCALE 1 : 250

0 5 10 15 METRES

METRIC: DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

CAUTION : THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.

TOWNSHIP OF NORTH DUMFRIES

DRIVEWAY OBSTRUCTIONS TO BE CHECKED AT TIME OF STAKEOUT

NOTE:

LOT AREA = 354.1 sq.m.
HOUSE AREA = 122.4 sq.m.
COVERAGE = 35%
T.F. TO U.S.F. = 2.54 (100")
(8 FOOT FOUNDATION)

Site Plan reviewed and found to be in general conformance with the overall lot grading plan.
Stantec Consulting Ltd.
MAY 10 2019
Date:

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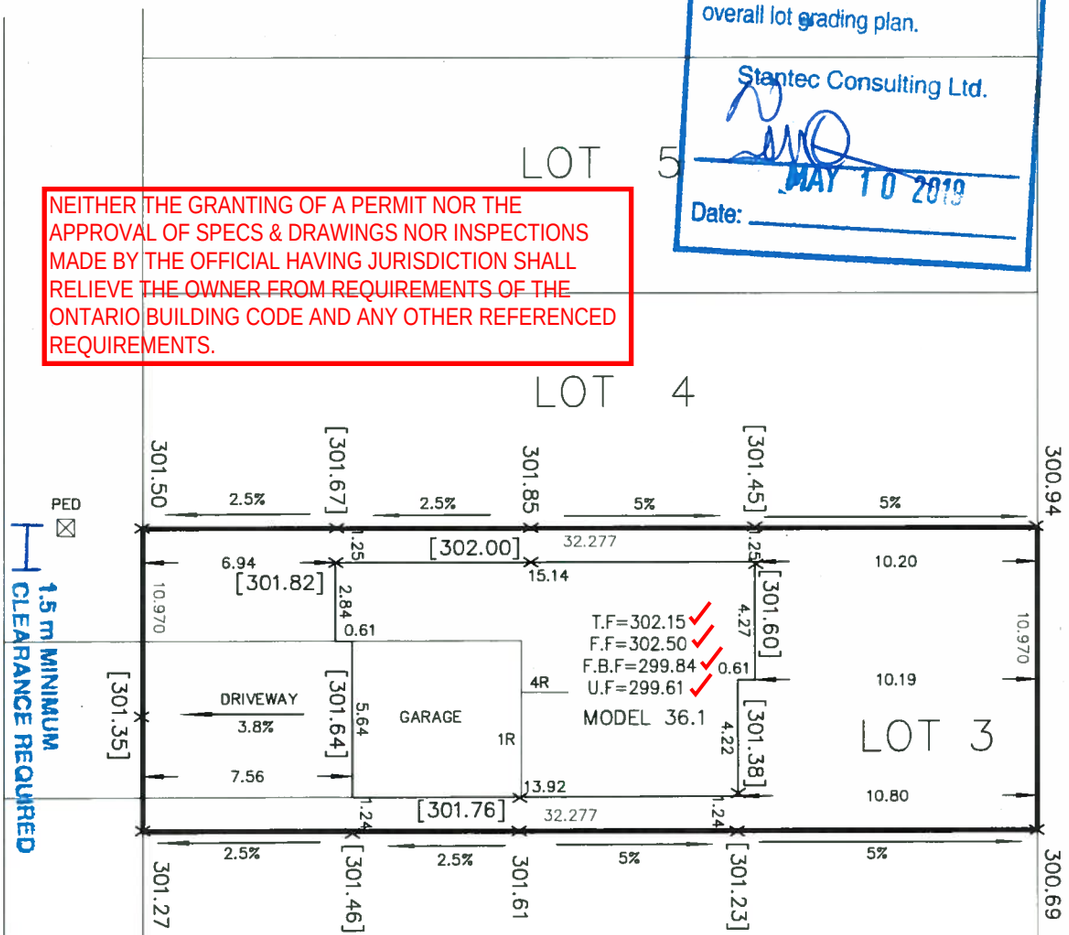

REVISIONS

NO.	DATE	BY	DESCRIPTION
1.			
2.			

THIS SKETCH WAS PREPARED FOR TICE RIVER ESTATES AND THE UNDERSIGNED ACCEPTS NO RESPONSIBILITY FOR USE BY OTHER PARTIES.

ROD LORD
ONTARIO LAND SURVEYOR

MacDONALD TAMBLYN LORD SURVEYING
SURVEYING MAPPING GIS
A Division of J.D. Barnes Limited
50 FLEMING DRIVE, UNIT 2, CAMBRIDGE, ON N1T 2B1
T. (519) 621-9600 F. (519) 621-6480 www.jdbarnes.com

NL	DRAWN
RL	CHECKED
06/05/2019	DATED:
19-40-617-00	Ref. No.

PLOTTED 06/05/2019

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

for design and performance of residential ventilation systems to OBC 2012 Div. B 9.32

RESET

LOCATION

1. Location

Township: Ayr

Civic Address: 36-01

BUILDER

2. Builder

Name: Tice River Homes

Address: _____ City: _____

Postal Code: _____ Ph: _____ Fax: _____

DESIGNER

3. Designer

Name: Allison Scagnetto

Address: 128 Idle Creek Dr

Postal Code: N2A 4B7 City: Kitchener

Ph: 519-893-1378 Fax: _____

Firm BCIN: _____

Designer BCIN: 31108

HRAI#: 7861

HEATING SYSTEM

4. Heating Systems ✓

☑ Forced Air ☐ Non Forced Air ☐ Oil

☐ Electric ☑ Gas ☐ Other

HEATING SYSTEM COMBUSTION APPLIANCES

5. Combustion Appliances 9.32.3.1.(1)

☑ a) Direct Vent

☐ b) Induced Draft

☐ c) Natural Draft

☐ d) Solid Fuel Appliances

☐ e) No combustion appliances

HOUSE TYPE

6. Type of House 9.32.3.1.(2)

☑ Type 1 a) or b) type appliances only

☐ Type 2 a) or b) type appliances with a d) type appliance

☐ Type 3 any type c) appliance = part 6 design

☐ Type 4 electric space heat

SYSTEM DESIGN OPTION

7. System Design Option

☐ Exhaust only forced air system/coupled

☑ HRV with extended exhaust or simplified coupled

☐ HRV full ducting/not coupled to forced air

☐ Part 6 design

TOTAL VENTILATION CAPACITY (TVC)

8.TVC Capacity OBC 9.32.3.3 ✓

Bsmt & Master bedroom	2	@ 21.2 CFM (10 L/S)	42.4	CFM
Other Bedrooms	2	@ 10.6 CFM (5 L/S)	21.2	CFM
Bathrooms & Kitchen	4	@ 10.6 CFM (5 L/S)	42.4	CFM
Other Habitable Rooms	2	@ 10.6 CFM (5 L/S)	21.2	CFM
		Total Ventilation Capacity (TVC)	127.2	CFM

TVC SYSTEM

8. TVC System

☑ HRV ☐ Central Exhaust ☑ Multiple Fans

PRINCIPAL EXH. FAN CAPACITY

9. Principal Exhaust Fan Capacity (PEF)

Master Bedroom	1	@ 31.8CFM(15L/S)	31.8	CFM
Other Bedrooms	2	@ 15.9CFM(7.5L/S)	31.8	CFM
		Total	63.6	CFM

PRINCIPAL EXHAUST FAN

Fan 1

10. Principal Exhaust Fan

Location Venmar

Manufacturer _____ Model _____ ☑ HVI rated

Design Airflow High 100 CFM Low 50 CFM Sones _____

If Using HRV/ERV:

75 % Sensible Efficiency @ 0°C _____ watts

_____ % Sensible Efficiency @ -25°C _____ watts

SUPPLEMENTAL EXHAUST CAPACITY

11. Supplemental Exhaust Fan Capacity (SEF)

Total Ventilation Capacity	127.2	CFM
Less Principle Ventilation Capacity	63.6	CFM
Required Supplemental Ventilation Capacity	63.6	CFM ✓

ADDITIONAL EXHAUST EQUIPMENT

12. Additional Equipment

Fan 2

Location Bath 2.0 Sones ✓

Manufacturer/Model _____ ☑ TVC

Design airflow 50 CFM

Fan 3

Location EnSuite 2.0 Sones ✓

Manufacturer/Model _____ ☑ TVC

Design airflow 50 CFM

Fan 4

Location Powder 2.0 Sones ✓

Manufacturer/Model _____ ☑ TVC

Design airflow 50 CFM

DESIGNER CONSENT

13 Designer Consent

I, Allison Scagnetto

have reviewed and take responsibility for the design work described In this document and I am qualified in the appropriate categories.

Date: 2019 / 01 / 23

Signature: Allison Scagnetto

Digitally signed by Allison Scagnetto
DN: cn=Allison Scagnetto, o, ou=HVAC Dolmation, email=allison@hvacmail.ca, c=CA
Date: 2018.11.02 09:49:20 -04'00'

Conversion Note: 1 L/S = 2.118 CFM

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I have reviewed and take responsibility for this design. OBC requirements and qualifications are met. Allison Scagnetto BCIN# 31108 HRAI# 7861

Project Summary
Entire House
HVAC Delineation

Job: 36-01
Date: Jan 23/19
By: Allison Scagnetto

Cert.#: 7861(RHLG, RASD)
128 Idle Creek Dr., Kitchener, ON N2A 4B7 Phone: 519-893-3766 Email: allison@hvacmail.ca License: BCIN# 31108

Project Information

For: Tice River Homes
36-01 - Elevation A, Ayr, ON

Notes: 36-01

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Design Information

Weather: Cambridge, ON, CA

Winter Design Conditions

Outside db	0	°F ✓
Inside db	72	°F
Design TD	72	°F

Summer Design Conditions

Outside db	84	°F
Inside db	75	°F
Design TD	9	°F ✓
Daily range	M	
Relative humidity	50	%
Moisture difference	40	gr/lb

Heating Summary

Structure	33852	Btuh ✓
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	33852	Btuh

Sensible Cooling Equipment Load Sizing

Structure	14407	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	y	
Rate/swing multiplier	1.00	
Equipment sensible load	14407	Btuh

Infiltration

Method	F280-12
Exposure category	Light local shielding
Const. categ.	Present (1961-) (ACH=3.57)
Number of stories	2.0

	Heating	Cooling
Area (ft²)	2574	1799
Volume (ft³)	21369	15165
Air changes/hour	0.27	0.07
Equiv. AVF (cfm)	97	19

Latent Cooling Equipment Load Sizing

Structure	4322	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	4322	Btuh
Equipment total load	18729	Btuh
Req. total capacity at 0.77 SHR	1.6	ton

Heating Equipment Summary

Make	Keeprite
Trade	KEEPRITE
Model	G9MXE040
AHRI ref	4705686

Efficiency	96 AFUE	✓
Heating input	40000	Btuh
Heating output	39000	Btuh
Temperature rise	56	°F
Actual air flow	650	cfm
Air flow factor	0.019	cfm/Btuh
Static pressure	0.55	in H2O
Space thermostat		

Cooling Equipment Summary ✓

Make	Keeprite
Trade	KEEPRITE
Cond	2.0 Tons
Coil	
AHRI ref	6426815

Efficiency	11.0 EER, 13.7 SEER	
Sensible cooling	13706	Btuh
Latent cooling	4094	Btuh
Total cooling	17800	Btuh
Actual air flow	800	cfm
Air flow factor	0.056	cfm/Btuh
Static pressure	0.55	in H2O
Load sensible heat ratio	0.77	

I have reviewed and take responsibility for this design. OBC requirements and qualifications are met. Allison Scagnetto BCIN # 31108 HRAI # 7861

Right-F280™ Worksheet
Entire House
HVAC Delineation

Job: 36-01
Date: Jan 23/19
By: Allison Scagnetto

Cert#: 7861(RHLG, RASD)
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1	Room name						Entire House				Kitchen				Living Rm			
2	Exposed wall						403.5 ft				28.5 ft				29.8 ft			
3	Room dimensions										12.5 x 13.0 ft				13.5 x 16.3 ft			
4	Room height						8.3 ft		d		9.0 ft		heat/cool		9.0 ft		heat/cool	
	Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	1F13	20.17	n	3.6	0.0	52	40	144	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	0.0	12	0	252	0	0	0	0	0	0	0	0	0
	W	R22	21.74	n	3.3	0.1	442	315	1048	34	113	75	248	8	122	78	261	9
	└G	2 glazi	3.45	n	21.0	18.0	127	0	2671	2289	38	0	798	684	43	0	907	778
	W	1F13	20.17	e	3.6	0.0	84	78	280	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	e	21.0	0.0	6	0	126	0	0	0	0	0	0	0	0	0
	W	R22	21.74	e	3.3	0.6	696	644	2146	363	117	117	390	66	0	0	0	0
	└G	2 glazi	3.45	e	21.0	49.6	52	0	1083	2562	0	0	0	0	0	0	0	0
	W	1F13	20.17	s	3.6	0.0	52	52	187	0	0	0	0	0	0	0	0	0
	W	R22	21.74	s	3.3	0.2	442	293	976	71	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	32.4	80	0	1680	2591	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	17.5	6	0	126	105	0	0	0	0	0	0	0	0
	└D	23G0	7.86	s	9.2	0.7	63	63	580	42	0	0	0	0	0	0	0	0
	W	1F13	20.17	w	3.6	0.0	84	84	302	0	0	0	0	0	0	0	0	0
	W	R22	21.74	w	3.3	0.6	696	673	2241	380	27	27	90	15	146	146	487	82
	└G	2 glazi	3.45	w	21.0	49.6	23	0	483	1142	0	0	0	0	0	0	0	0
	C	R60	58.82	-	1.2	0.6	1061	1061	1305	653	38	38	46	23	0	0	0	0
	F	15AH0	33.38	-	1.1	0.1	285	285	309	28	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	776	776	2834	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								18773	10259			1572	796			1655	868
7	a) Infiltration								7619	187			537	14			565	16
	b) Ventilation								7460	948			829	105			829	105
8	Internal gains:	People@ 239						2		478		0		0		1		239
		Electric/Appliances								2535				195				195
	Subtotal (lines 6 to 8)								33852	14407			2937	1111			3049	1424
9	Less external load							-	0	0		-	0	0		-	0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								33852	14407			2937	1111			3049	1424
12	Distribution losses	Ducts			0%	0%			0	0	0%	0%	0	0	0%	0%	0	0
		Hydronic			0%				0		0%		0		0%		0	
	Redistribution								0	0			0	0			0	0
13	Total room load								33852	14407			2937	1111			3049	1424
14	Air required (cfm)								650	800			56	62			59	79

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Right-F280™ Worksheet
Entire House
HVAC Delineation

Job: 36-01
Date: Jan 23/19
By: Allison Scagnetto

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							Foyer 33.8 ft 1.0 x 117.3 ft 9.0 ft heat/cool				Powder 7.0 ft 3.3 x 7.0 ft 9.0 ft heat/cool				Master Bed 29.0 ft 15.3 x 13.8 ft 8.0 ft heat/cool			
1 Room name 2 Exposed wall 3 Room dimensions 4 Room height	Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	1F13	20.17	n	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	n	3.3	0.1	0	0	0	0	0	0	0	0	122	90	300	10
	└G	2 glazi	3.45	n	21.0	18.0	0	0	0	0	0	0	0	0	32	0	672	576
	W	1F13	20.17	e	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	e	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	e	3.3	0.6	81	73	243	41	63	55	183	31	110	110	366	62
	└G	2 glazi	3.45	e	21.0	49.6	8	0	168	397	8	0	168	397	0	0	0	0
	W	1F13	20.17	s	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	s	3.3	0.2	79	31	102	7	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	32.4	0	0	0	0	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	17.5	6	0	126	105	0	0	0	0	0	0	0	0
	└D	23G0	7.86	s	9.2	0.7	42	42	387	28	0	0	0	0	0	0	0	0
	W	1F13	20.17	w	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	w	3.3	0.6	144	144	480	81	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	w	21.0	49.6	0	0	0	0	0	0	0	0	0	0	0	0
	C	R60	58.82	-	1.2	0.6	0	0	0	0	0	0	0	0	210	210	258	129
	F	15AH0	33.38	-	1.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								1506	660			351	428			1596	777
7	a) Infiltration								514	12			120	8			306	14
	b) Ventilation								829	105			0	0			829	105
8	Internal gains: People@ 239							0		0		0		0		1		239
	Electric/Appliances									195				195				195
	Subtotal (lines 6 to 8)								2849	972			471	631			2730	1330
9	Less external load							-	0	0		-	0	0		-	0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								2849	972			471	631			2730	1330
12	Distribution losses			Ducts			0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
				Hydronic			0%		0		0%		0		0%		0	
	Redistribution								0	0			0	0			0	0
13	Total room load								2849	972			471	631			2730	1330
14	Air required (cfm)								55	54			9	35			52	74

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							EnSuite 20.8 ft 10.8 x 10.0 ft 8.0 ft heat/cool				Bath 8.0 ft 13.8 x 8.0 ft 8.0 ft heat/cool				Bed 2 24.8 ft 13.8 x 11.0 ft 8.0 ft heat/cool			
	Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	1F13	20.17	n	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	n	3.3	0.1	86	72	240	8	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	18.0	14	0	294	252	0	0	0	0	0	0	0	0
	W	1F13	20.17	e	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	e	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	e	3.3	0.6	0	0	0	0	64	57	189	32	88	88	293	50
	└G	2 glazi	3.45	e	21.0	49.6	0	0	0	0	7	0	151	357	0	0	0	0
	W	1F13	20.17	s	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	s	3.3	0.2	0	0	0	0	0	0	0	0	110	78	258	19
	├G	2 glazi	3.45	s	21.0	32.4	0	0	0	0	0	0	0	0	32	0	680	1049
	├G	2 glazi	3.45	s	21.0	17.5	0	0	0	0	0	0	0	0	0	0	0	0
	└D	23G0	7.86	s	9.2	0.7	0	0	0	0	0	0	0	0	0	0	0	0
	W	1F13	20.17	w	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	w	3.3	0.6	80	73	243	41	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	w	21.0	49.6	7	0	147	348	0	0	0	0	0	0	0	0
	C	R60	58.82	-	1.2	0.6	108	108	132	66	110	110	135	68	151	151	186	93
	F	15AH0	33.38	-	1.1	0.1	0	0	0	0	25	25	27	2	55	55	60	5
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								1056	715			503	460			1478	1216
7	a) Infiltration								202	13			96	8			283	22
	b) Ventilation								829	105			829	105			829	105
8	Internal gains: People@ 239							0		0		0		0		0		0
	Electric/Appliances									195				195				195
	Subtotal (lines 6 to 8)								2087	1028			1428	768			2589	1538
9	Less external load							-	0	0		-	0	0		-	0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								2087	1028			1428	768			2589	1538
12	Distribution losses			Ducts			0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
				Hydronic			0%		0		0%		0		0%		0	
	Redistribution								0	0			0	0			0	0
13	Total room load								2087	1028			1428	768			2589	1538
14	Air required (cfm)								40	57			27	43			50	85

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Entire House
HVAC Delineation

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1	Room name						Bed 3				Laundry				Bsmt			
2	Exposed wall						30.0 ft				13.0 ft				136.0 ft			
3	Room dimensions						12.3 x 17.0 ft				1.0 x 172.0 ft				1.0 x 775.5 ft			
4	Room height						8.0 ft heat/cool				8.0 ft heat/cool				8.0 ft heat only			
	Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	1F13	20.17	n	3.6	0.0	0	0	0	0	0	0	0	0	52	40	144	0
	└G	2 glazi	3.45	n	21.0	0.0	0	0	0	0	0	0	0	0	12	0	252	0
	W	R22	21.74	n	3.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	18.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	1F13	20.17	e	3.6	0.0	0	0	0	0	0	0	0	0	84	78	280	0
	└G	2 glazi	3.45	e	21.0	0.0	0	0	0	0	0	0	0	0	6	0	126	0
	W	R22	21.74	e	3.3	0.6	6	6	20	3	50	43	143	24	0	0	0	0
	└G	2 glazi	3.45	e	21.0	49.6	0	0	0	0	7	0	151	357	0	0	0	0
	W	1F13	20.17	s	3.6	0.0	0	0	0	0	0	0	0	0	52	52	187	0
	W	R22	21.74	s	3.3	0.2	98	50	168	12	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	32.4	48	0	999	1542	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	17.5	0	0	0	0	0	0	0	0	0	0	0	0
	└D	23G0	7.86	s	9.2	0.7	0	0	0	0	0	0	0	0	0	0	0	0
	W	1F13	20.17	w	3.6	0.0	0	0	0	0	0	0	0	0	84	84	302	0
	W	R22	21.74	w	3.3	0.6	136	136	453	77	54	38	127	21	0	0	0	0
	└G	2 glazi	3.45	w	21.0	49.6	0	0	0	0	16	0	336	794	0	0	0	0
	C	R60	58.82	-	1.2	0.6	208	208	256	128	172	172	212	106	0	0	0	0
	F	15AH0	33.38	-	1.1	0.1	205	205	223	20	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	776	776	2834	0
6	Total conductive loss/gain								2119	1782			968	1303			4124	0
7	a) Infiltration								406	32			185	24			3809	0
	b) Ventilation								829	105			0	0			0	0
8	Internal gains: People@ 239							0		0		0		0		0		0
	Electric/Appliances									195				195				0
	Subtotal (lines 6 to 8)								3354	2115			1153	1522			7934	0
9	Less external load							-	0	0		-	0	0		-	0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								3354	2115			1153	1522			7934	0
12	Distribution losses			Ducts			0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
				Hydronic			0%		0		0%		0		0%		0	
	Redistribution								0	0			0	0			0	0
13	Total room load								3354	2115			1153	1522			7934	0
14	Air required (cfm)								64	117			22	85			152	0

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1	Room name						WIC				Dining Rm				Entry			
2	Exposed wall						6.0 ft				16.8 ft				20.3 ft			
3	Room dimensions						10.8 x 6.0 ft				12.5 x 13.0 ft				13.5 x 6.8 ft			
4	Room height						8.0 ft heat/cool				9.0 ft heat/cool				9.0 ft heat/cool			
	Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	1F13	20.17	n	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	n	3.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	n	21.0	18.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	1F13	20.17	e	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	└G	2 glazi	3.45	e	21.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	e	3.3	0.6	0	0	0	0	117	96	319	54	0	0	0	0
	└G	2 glazi	3.45	e	21.0	49.6	0	0	0	0	21	0	445	1053	0	0	0	0
	W	1F13	20.17	s	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	s	3.3	0.2	0	0	0	0	34	34	112	8	122	101	335	24
	├G	2 glazi	3.45	s	21.0	32.4	0	0	0	0	0	0	0	0	0	0	0	0
	├G	2 glazi	3.45	s	21.0	17.5	0	0	0	0	0	0	0	0	0	0	0	0
	└D	23G0	7.86	s	9.2	0.7	0	0	0	0	0	0	0	0	21	21	193	14
	W	1F13	20.17	w	3.6	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	R22	21.74	w	3.3	0.6	48	48	160	27	0	0	0	0	61	61	202	34
	└G	2 glazi	3.45	w	21.0	49.6	0	0	0	0	0	0	0	0	0	0	0	0
	C	R60	58.82	-	1.2	0.6	65	65	79	40	0	0	0	0	0	0	0	0
	F	15AH0	33.38	-	1.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								239	67			877	1115			730	72
7	a) Infiltration								46	1			299	20			250	1
	b) Ventilation								0	0			829	105			0	0
8	Internal gains: People@ 239							0		0		0		0		0		0
	Electric/Appliances									195				195				195
	Subtotal (lines 6 to 8)								285	263			2005	1435			980	269
9	Less external load							-	0	0		-	0	0		-	0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								285	263			2005	1435			980	269
12	Distribution losses			Ducts			0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
				Hydronic			0%		0		0%		0		0%		0	
	Redistribution								0	0			0	0			0	0
13	Total room load								285	263			2005	1435			980	269
14	Air required (cfm)								5	15			38	80			19	15

NEITHER THE GRANTING OF A PERMIT NOR THE APPROVAL OF SPECS & DRAWINGS NOR INSPECTIONS MADE BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.