DrJ ENGINEERING
6300 Enterprise Lane | Madison, WI 53719 | drjengineering.org

Paragon ID: 41768

Re: 221734DS1

Site Information:

Project Customer:	GARMAN HOMES	Project Name:	221734DS1
Lot/Block:	78	Subdivision:	SERENITY
Address:	165 RETREAT DR	Model:	WISTERIA B
City:	FUQUAY VARINA	State:	North Carolina

Name Address and License # of the Building Designer, if there is one, for the Building:

Name: - License: - State: North Carolina
Address: - City: -

The Truss Manufacturer (TM) is Carolina Structural Systems

The TM has Communicated Truss Design Criteria (TDC) to DrJ Engineering, LLC (DrJ). Refer to the individual Truss Design Drawings (TDDs) for specifics. Building Code, Software & engineering information follows:

Design Code:	IRC 2015
Software Program:	STRUCTURE
Truss Design Engineer:	Ryan Dexter

The TM has obtained, through the TM's Customer, the TDC &Truss design requirements from the Construction Documents &/or one of the Construction Professionals. The TM has Communicated the TDC & any related Truss design requirements to DrJ. This Communication includes transfer of TDC & any related Truss cesign requirements using proprietary Truss industry Software. DrJ designs each individual Truss, as illustrated on each TDD, relying upon the accuracy & completeness of Communicated information.

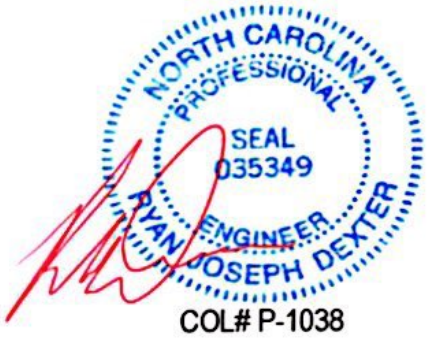
The seal on the Cover/Truss Index Sheet & on the individual TDD represents acceptance of responsibility for the review of the TDC & the design of each individual Truss. Each Truss then becomes one element of a Building Structural System (BSS). For any other BSS information needed, please contact the TM.

The TM is responsible for supplying the truss-to-truss connector type. Contact the TM for questions regarding truss-to-truss connector type, application and/or installation.

All dimensions are reproduced from the referenced Building Designer's plans.

⚠ WARNING: Always review the handling, storage, installation, lateral restraint & diagonal bracing information provided by TM through their delivery of the Truss Submittal Package (TSP). Do not cut or alter any part of a Truss or Structural Element. Never stack building material without proper lateral restraint & diagonal bracing. Never overload/exceed the design load shown on any TDD or Structural Element design drawing (SEDD). Property damage &/or personal injury happen when there is complacency regarding safety items. DrJ presumes the TM submits their TSP to be reviewed, approved & used by one or more of the following; building Owner, Building Official, Building Designer, Registered Design Professional in Responsible Charge, Contractor &/or Framer.

My license renewal date for North Carolina is 12/31/2023 DrJ Consulting, PLLC P-1038



COL# P-1038

1/18/2023

Ryan Dexter

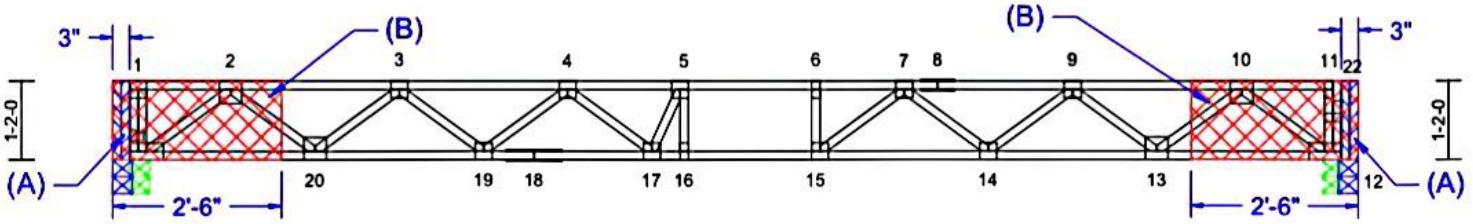
Job	Truss	Truss Type	Qty	Ply	221734FT1	Paragon ID: 41768
221734FT1	F204	Floor	1	1	Job Reference (optional)	I55926817 P4430053

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Dec 29 12:37:48

REPAIR:

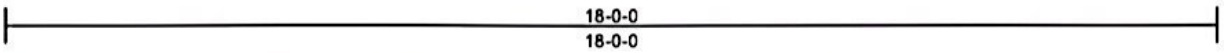
1) EXTEND 3" OF THE TRUSS AT EACH END AS SHOWN. BEARING RELOCATED.

- NOTE - THIS REPAIR IS VALID FOR THE DESIGN CONDITIONS PROVIDED IN THIS TRUSS REPAIR DRAWING. IT'S ADEQUACY FOR THE ACTUAL CONDITIONS MUST BE VERIFIED BY OTHERS.
- REFER TO ORIGINAL TRUSS DESIGN DRAWING FOR ADDITIONAL NOTES.
- IF TRUSS IS IN PLACE, SHORE UP TRUSS TO RELIEVE ANY LOAD IT MAY BE SUPPORTING BEFORE BEGINNING REPAIR.
- UNLESS OTHERWISE SPECIFIED, REMOVE ALL ELECTRICAL, MECHANICAL, PLUMBING, ETC. RUNS INTERFERING WITH THE REPAIR MATERIALS AND RE-ROUTE. DO NOT CUT, DRILL, NOTCH, OR MODIFY REPAIR MATERIALS.



(A) ADD (4) NEW 4 x 2" SP No.2 MEMBER(S) AS SHOWN - CUT TO FIT TIGHT. ATTACH ONE MEMBER TO EACH END VERTICAL WITH ONE ROW OF 10d (3" X 0.131") NAILS SPACED 4" OC. FASTEN NEW MEMBERS TOGETHER WITH 10d (3" X 0.131) NAILS SPACED AT 4" OC. STAGGER NAILS FROM FIRST MEMBER TO SECOND MEMBER FOR A NET 2" OC.

(B) APPLY 23/32" 48/24 OR 24 OC SPAN RATED OSB GUSSETS TO EACH SIDE OF TRUSS AS SHOWN. ATTACH EACH GUSSET WITH (1) ROW OF 10d (3" X .131") NAILS SPACED @ 4" OC INTO ALL MEMBERS. STAGGER SPACING FROM FRONT SIDE TO BACK SIDE FOR A NET 2" OC SPACING IN THE TRUSS MEMBER.



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.26	15-16	>832	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.35	15-16	>606	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%F, 11%E

LUMBER

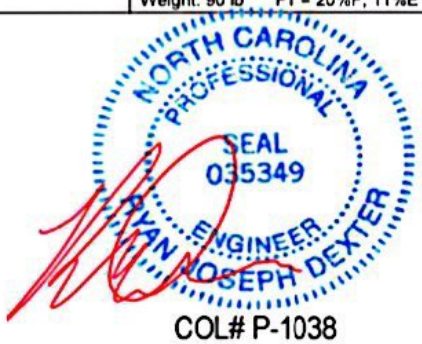
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 18-12:2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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