



June 24, 2024

Sylvester & Gwendolyn Burton Landrum  
603 Augusta Dr.  
Fairburn GA 30213  
Email: [nyconnectg@yahoo.com](mailto:nyconnectg@yahoo.com)

Reference: Engineering Services  
1014 Piney Grove Rawls Rd.  
Knightdale, NC 27545  
TE&D Project No.: 2201-010322\_E

To Whom It May Concern;

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to inspect and observe the following:

- 1) Analysis of the cracked 2 x 6 ceiling joist over the living room.
- 2) Analysis of the 2 x 4 blocking installed to allow for rafter bearing.
- 3) Analysis (2) 2 x 10 blocking installed above the LVL beam for rafter bearing.

The following conclusions and recommendations were noted:

- 1) We observed a crack in a 2 x 6 ceiling joist spanning front to back over the living room. Based on our observations and analysis, a new 2 x 6 joist is to be "sistered" to the cracked joist with (2) rows of 10D nails at 16" o.c. The new joist is to have full bearing at each end.
- 2) We observed the damaged 2 x 6 rafter over the kitchen to be bearing on (2) 2 x 4 blocking installed to the side of the LVL beam. Based on our observations and analysis, this configuration is inadequate to support the anticipated loading conditions. A 2 x 6 x 4'-0" scab is to be fastened to the end of the damaged rafter with (2) rows of 10D nails at 8" o.c. The new rafter scab is to have full bearing at the LVL beam below.
- 3) We observed a (2) 2 x 10 to be stacked on top of the existing ceiling joists to allow bearing for the 2 x 6 rafters. Based on our observations and analysis, the existing configuration is inadequate to support the anticipated loading conditions and following modifications are to be made:
  - A) The rafters are to be secured to the (2) 2 x 10 with Simpson L50 hangers (or equivalent) installed per the manufacturer's specifications.
  - B) The (2) 2 x 10 is to be secured to the ceiling joists below with Simpson H2.5A ties (or equivalent) installed per the manufacturer's specifications.



Upon completion, the new framing will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,  
Tyndall Engineering & Design

Tripp Amos  
BH | 2201-010322\_E

Prentice Tyndall Jr., P.E.



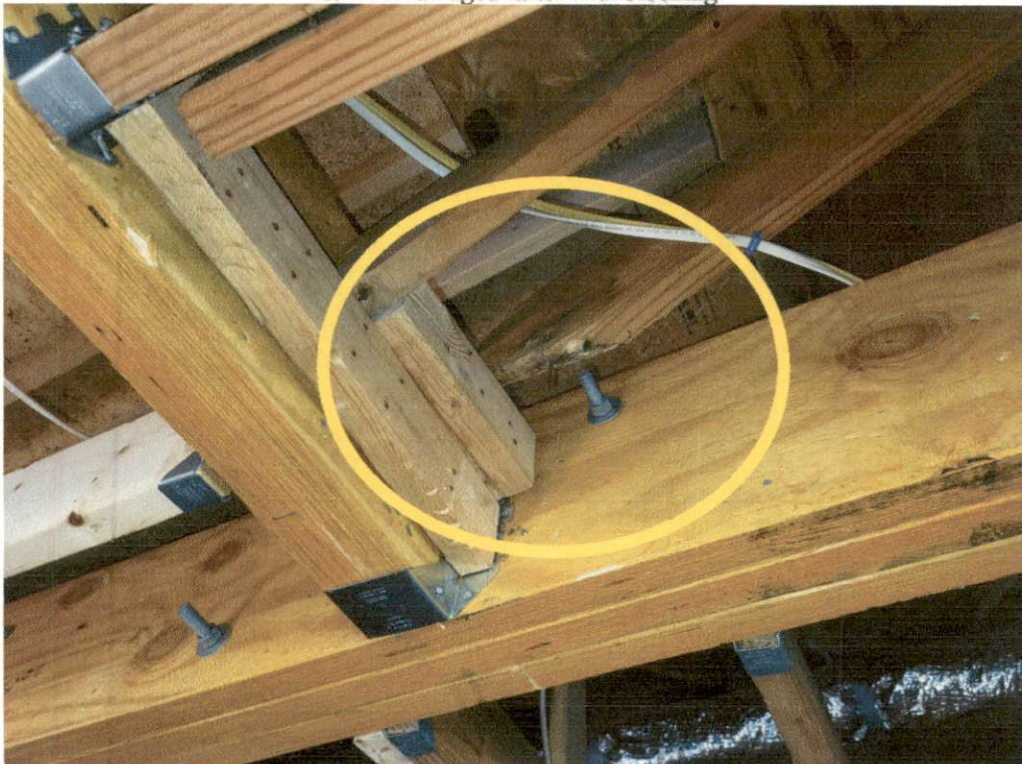




**Item 1: Cracked Ceiling Joist**



**Item 2: Damaged rafter with blocking**





Item 3: (2) 2 x 10 installed on ceiling joists







January 11, 2024

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*Engineer  
Reports*

Reference: Engineering Services  
1014 Piney Grove Rawls Rd.  
Knightdale, NC 27545  
TE&D Project No.: 2201-010322\_B

To Whom It May Concern;

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to inspect and observe the following:

- 1) Proposed removal of the left exterior kitchen wall.
- 2) Proposed removal of the living room/dining room wall.
- 3) Proposed removal of the rear exterior wall of the living room to the right of the chimney.
- 4) Proposed removal of the rear wall of the living room to the left of the chimney.
- 5) Proposed notching of new 2 x 10 floor joists to allow for bearing ledge installation.

The following conclusions and recommendations were noted:

- 1) Based on our observations and analysis, the new opening is to be framed per the detail included in the plans sealed on 9/26/2023.
- 2) Based on our observations and analysis, the new opening is to be framed per the detail included in the plans sealed on 9/26/2023.
- 3) Based on our observations and analysis, the new opening is to be framed per the detail included in the plans sealed on 9/26/2023.
- 4) Based on our observations and analysis, the new opening is to be framed per the detail included in the plans sealed on 9/26/2023.
- 5) We understand the 2 x 10 floor joists below the rear addition are to be notched in order to be secured to the 2 x 8 band. Based on our observations and analysis, the floor joists may be notched to achieve the required support for the anticipated loading conditions.



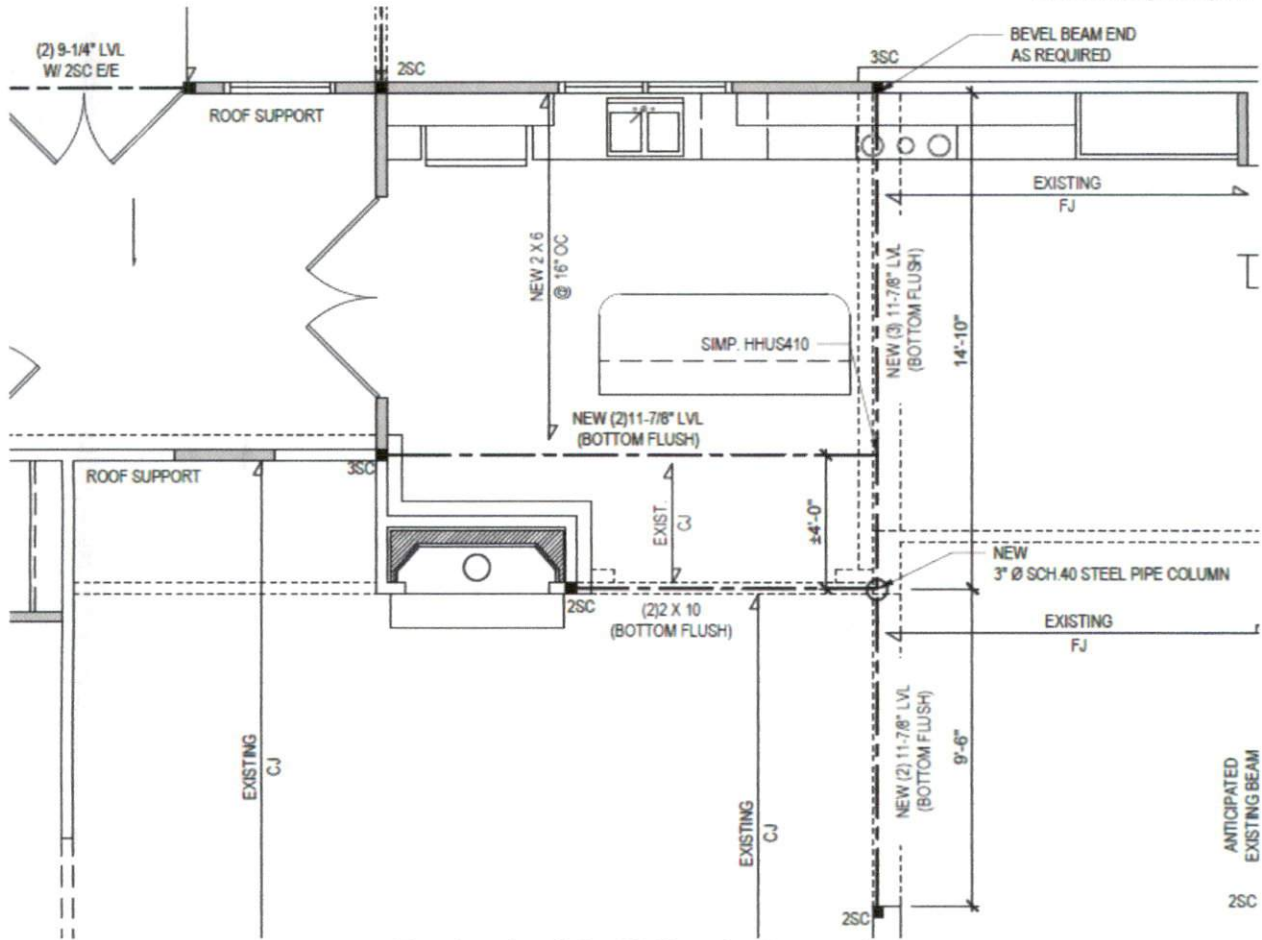
Upon completion, the new framing will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,  
Tyndall Engineering & Design

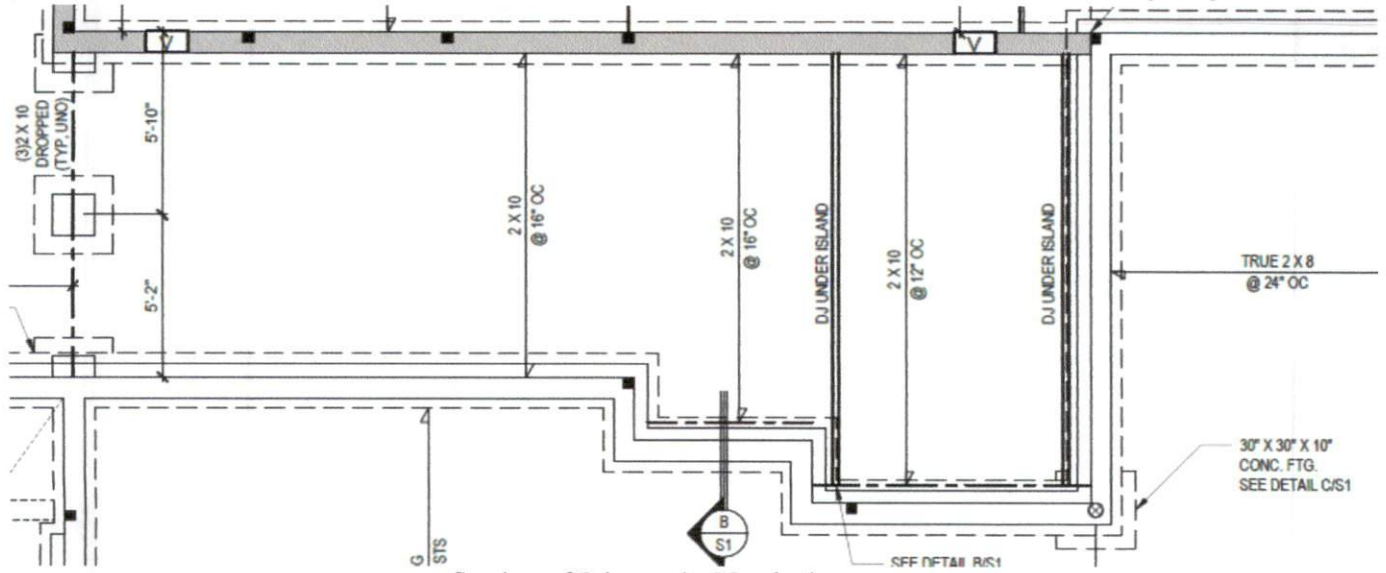
Tripp Amos  
BH | 2201-010322\_B

Prentice Tyndall Jr., P.E.





Framing detail for Walls to be Removed  
(Cut from Plans Sealed on 9/26/2023)  
(Not to Scale)



Section of Joists to be Notched  
(Cut from Plans Sealed on 9/26/2023)  
(Not to Scale)





February 20, 2024  
Revised March 27, 2024

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TE&D Project No.: 2201-010322\_C-R

To Whom It May Concern;

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to inspect and observe the following:


- 1) The new 2 x 10 floor joists were notched with 2" x 6-1/2" notches to allow for bearing at the new foundation wall.
- 2) New 2 x 10 joists were bearing directly on the existing hollow CMU foundation wall with no sill plate.

The following conclusions and recommendations were noted:

- 1) We understand the 2 x 10 floor joists below the rear addition are to be notched approximately 2" x 6-1/2" in order to be secured to the 2 x 8 band. Based on our observations and analysis, this configuration is adequate to support for the anticipated loading conditions.
- 2) We observed the new, treated 2 x 10 floor joists were installed bearing directly on the existing hollow CMU foundation wall. The existing floor joists were also observed to be treated. Based on our observations and analysis, the existing floor joist and foundation wall configuration is adequate to support the anticipated loading conditions. No modification is required.

We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,  
Tyndall Engineering & Design

  
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**Notched Joists:**



**Joists bearing on existing foundation wall:**







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- 4) Proposed removal of the rear wall of the living room to the left of the chimney.
- 5) Proposed notching of new 2 x 10 floor joists to allow for bearing ledge installation.

The following conclusions and recommendations were noted:

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- 5) We understand the 2 x 10 floor joists below the rear addition are to be notched in order to be secured to the 2 x 8 band. Based on our observations and analysis, the floor joists may be notched to achieve the required support for the anticipated loading conditions.





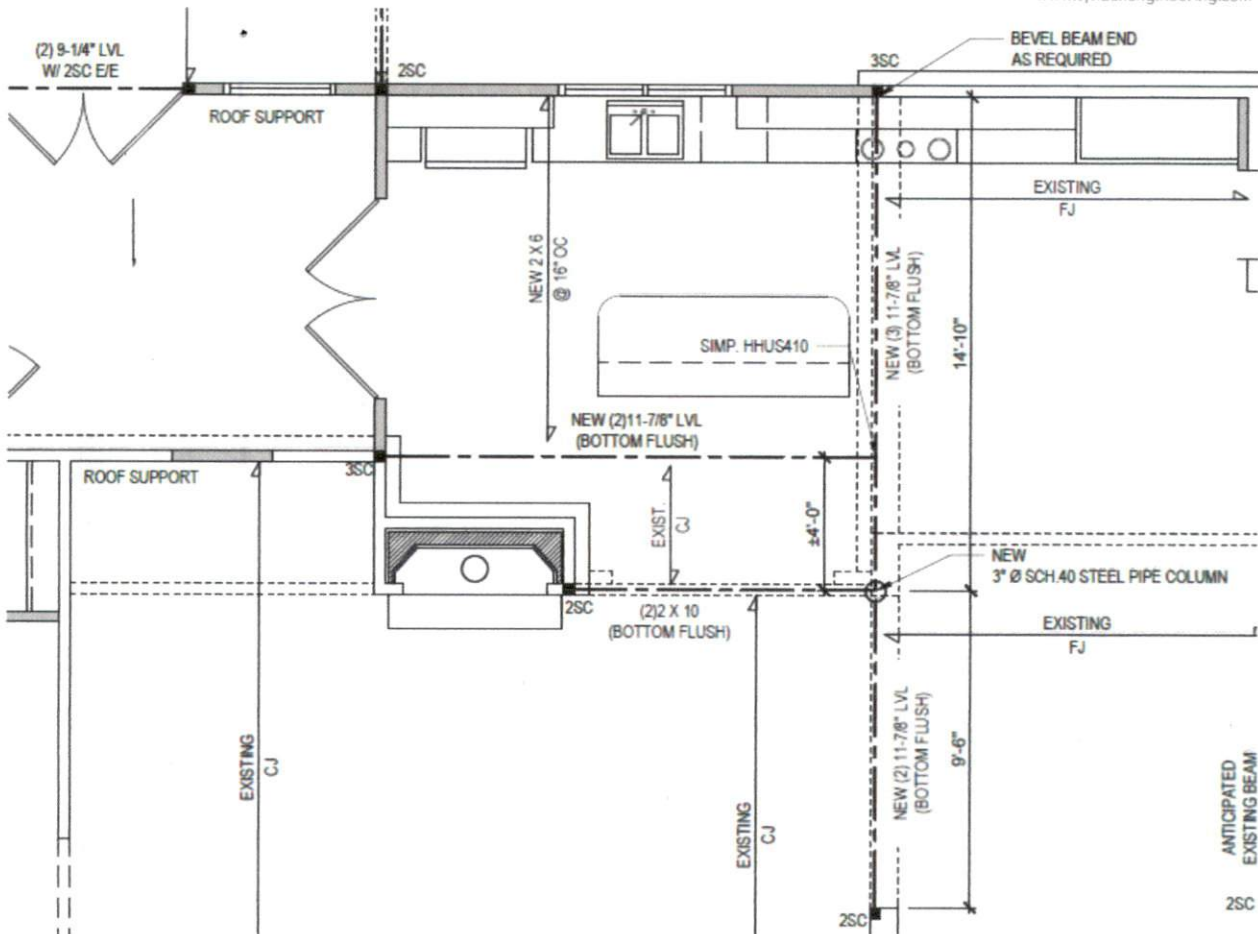
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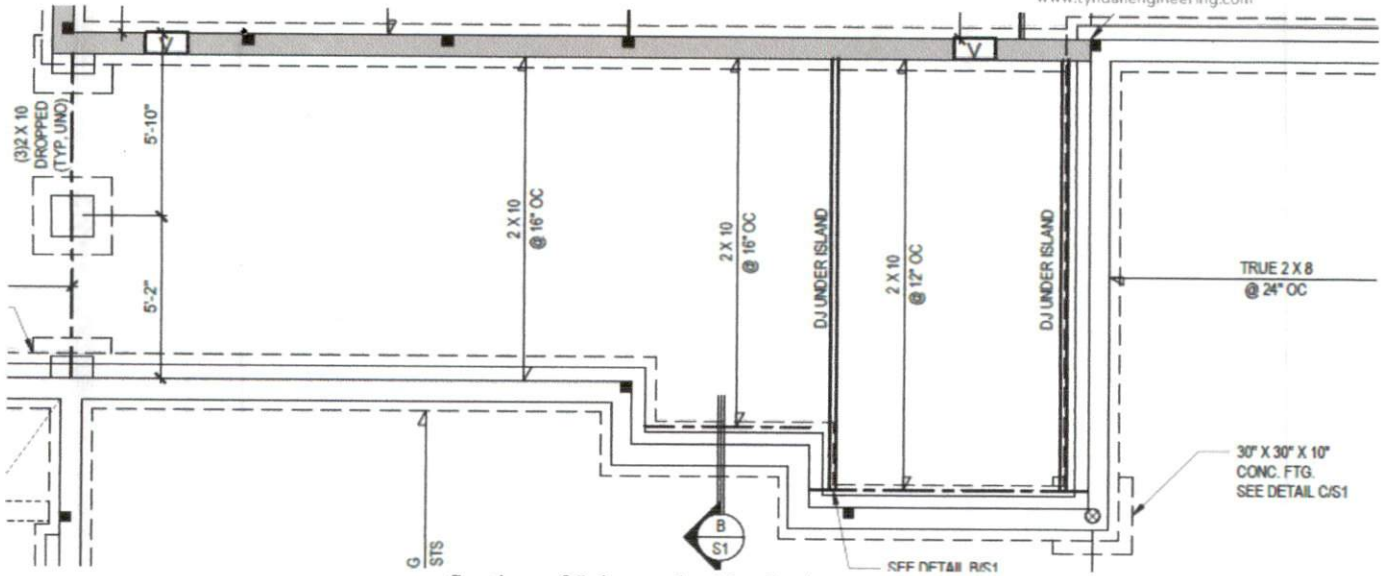
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