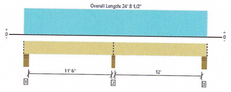
FORTE WEB

MEMBER REPORT

PASSED

Level, Floor: Drop Beam

4 piece(s) 2 x 10 DF No.1



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load Combination (Pattern)
Member Reaction (lbs)	5320 @ 12' 1 1/4"	11725 (1.15ll")	Passed (45%)	—	1.0 D + 1.0 L (All Spans)
Shear (lbs)	2229 @ 13' 5 1/4"	6060	Passed (37%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	4560 @ 12' 1 1/4"	7643	Passed (60%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.531 @ 12' 3 3/8"	0.809	Passed (L=809.1)	—	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.760 @ 12' 3 3/8"	0.814	Passed (L=627)	—	1.0 D + 1.0 L (All Spans)

System : Floor
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			
	Total	Available	Required	Dead	Floor Live	Total	Accessories
1 - Stud wall - SP	5.50"	5.50"	1.50"	470	1030~1561	1500~2031	Blocking
2 - Stud wall - SP	3.50"	3.50"	1.50"	1010	3602	4612	Blocking
3 - Stud wall - SP	3.50"	3.50"	1.50"	552	1950~1951	2502~2503	Blocking

- Bearing Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	24' 8" o/c	
Bottom Edge (Le)	24' 8" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
1 - Self Weight (PLF)	0 to 24' 8 1/2" (Front)	N/A	14.4	40.0	Default Load
2 - Uniform (PSF)	0 to 24' 8 1/2" (Front)	4'	14.4	40.0	Default Load

Weyerhaeuser Notes

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties, express or implied, including, but not limited to, implied warranty of merchantability or fitness for a particular purpose. Actual performance of Weyerhaeuser products in any given application is the responsibility of the builder or designer. Weyerhaeuser accepts no responsibility for any damages except as expressly stated in Weyerhaeuser's warranty. Consult your local building official or design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to ensure that this calculation is compatible with the overall project. Access Weyerhaeuser literature at www.weyerhaeuser.com/woodproducts. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC-ES under evaluation reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports, the preferred product thickness and installation details refer to: www.weyerhaeuser.com/woodproducts/document library

The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Name:Hayn Company:Bruno Home Designs By Bruno (860) 885-6189 brunoofficeadmin@sbcglobal.com	

5/11/2022 7:44:39 PM UTC

ForteWEB v3.2, Engine: V8.2.0.17, Data: V8.1.0.16

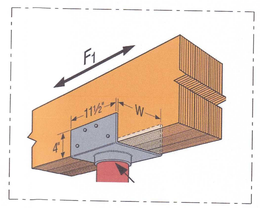
File Name: Hubn

Page 1 / 1

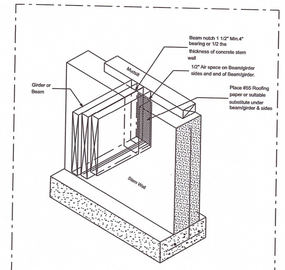
Bruce P. Hayn aka "Bruno" 2015

ELECTRICAL LEGEND

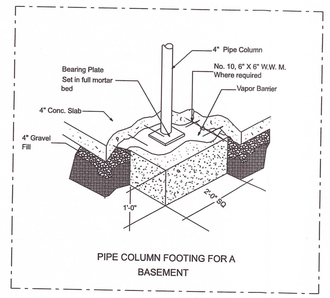
ELECTRICAL	COUNT	SYMBOL
electrical panel	1	
co detector	4	CO
fan 90 CFM	1	90 CFM
outlet gfi	4	GFI
smoke detector	4	



6x6PT Support Column w/ 12" Concrete Filled Sonat Tube w/ 20" x 20" x 10" Concrete Footing - Typ.



BEAM POCKET DETAIL



PIPE COLUMN FOOTING FOR A BASEMENT

78'-0" | 5'-0" | 29'-0" | 12'-0" | 12'-0" | 20'-0"

6'-0" | 6'-0" | 6'-0" | 6'-0" | 2'-6" | 9'-6" | 8'-0"

22'-0"

4'-0" | 5'-8" | 5'-8" | 5'-8"

6" | 6"

4 - 2x8PT Built Up Girder

22'-0"

6'-0"

16'-0"

2x10PT - 16" O.C. Deck Joists Above

2x4PT Solid Blocks

9'-5⅜" x 5'-4⅞"

11'-0"

11'-6"

4 - 2x10 DF #1 Built Up Girder

4 - 2x10 DF #1 Built Up Girder

4" dia. STEEL JACK POST ON 24" x 24" x 8" REINFORCED CONCRETE PAD

6'-3⅜" x 5'-4⅞"

3'-0"

5'-0" | 5'-0" | 6" | 10'-0" | 6"

16'-0"

Roof Line Above

ELECTRICAL PANEL BOX & METER

4" Concrete Floor w/ 6 mil poly Under

2x10 - 16" O.C. Floor Joists Above

Unfinished Storage

FURNACE

HOT WATER HEATER

5'-0"

3'-3"

3"

1'-0"

Load Bearing Point - DO NOT RELOCATE

Depressed Footing to be Poured w/ Concrete Floor

Family Room

Depressed Footing to be Poured w/ Concrete Floor

Office

13'-8½"

13'-4¾"

15'-8¼"

9'-9⅜"

3'-0"

2'-0"

3¼"

16'-4½"

4 - 1-3/4" x 11-1/4" 2.0E Microllam LVL

Load Bearing Wall - DO NOT RELOCATE

Load Bearing Point - DO NOT RELOCATE

BEAM POCKET (TYP.)

BEAM POCKET - (TYP.)

Drop T.O.W. Down to be 10" Below Grade then Pour Concrete Floor Over - Typ.

3" Radon Pipe

2x10 - 16" O.C. Floor Joists Above

Hall

Bath

90 CFM

Builder Must Follow Elevator Manufactures Spec for Installation

Elevator Shaft

Load Bearing Wall - DO NOT RELOCATE

Depressed Footing to be Poured w/ Concrete Floor

4" Concrete Floor w/ 6 mil poly Under

38'-5 1/32"

Slope

Drop T.O.W. Down to be 10" Below Grade then Pour Concrete Floor Over - Typ.

UP

Covered Porch

Slab on Grade

Unfinished Storage

Drop T.O.W. Down to be 10" Below Grade then Pour Concrete Floor Over - Typ.

56'-0" | 22'-0" | 8'-0" | 9'-8" | 38'-0" | 56'-0" | 8'-0"

2'-0" | 6'-3" | 1'-9" | 3'-10½" | 16'-3" | 3'-10½" | 8'-0" | 15'-4" | 20'-8"

10'-0" | 24'-0" | 23'-4"

78'-0"

Proposed Lower Level Plan

Revision	By

IF THIS STAMP IS NOT RED IT IS A COPYRIGHT VIOLATION AND ILLEGAL ANY MEANS IS PROHIBITED BY FEDERAL LAW VIOLATORS WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW

Builder to verify all dimensions
Follow dimensions, Do Not Scale Drawings
The Contractor is to be fully familiar with all laws and statutes that govern the area in which this structure will be built
Note:
Great care and effort has come into the design and structural engineering of these plans, however, because of the impossibility of providing against human error on the part of others during the actual construction and because of variances by local building code requirements, No responsibility for any damages including structural failure. Due to any deficiencies, omissions or errors in the design of blueprints, it is recommended that your contractor & local Architect be employed to review and check with your local Building Officials prior to the start of actual construction.

May 12, 2022

Scale = 1/4" = 1'0"

Drawn By BPH

Page 4 of 7

Proposed Lower Level Plan

Huhn
32 Village Dr
Ledyard, CT 06339

If below is not in Color then this copy is not an original and therefore is not to be used.

HOME DESIGNS BY BRUNO
See Me Before You Build!
75 Lebanon Ave
Colchester, CT 06415
860-885-6189
860-603-2622 fax