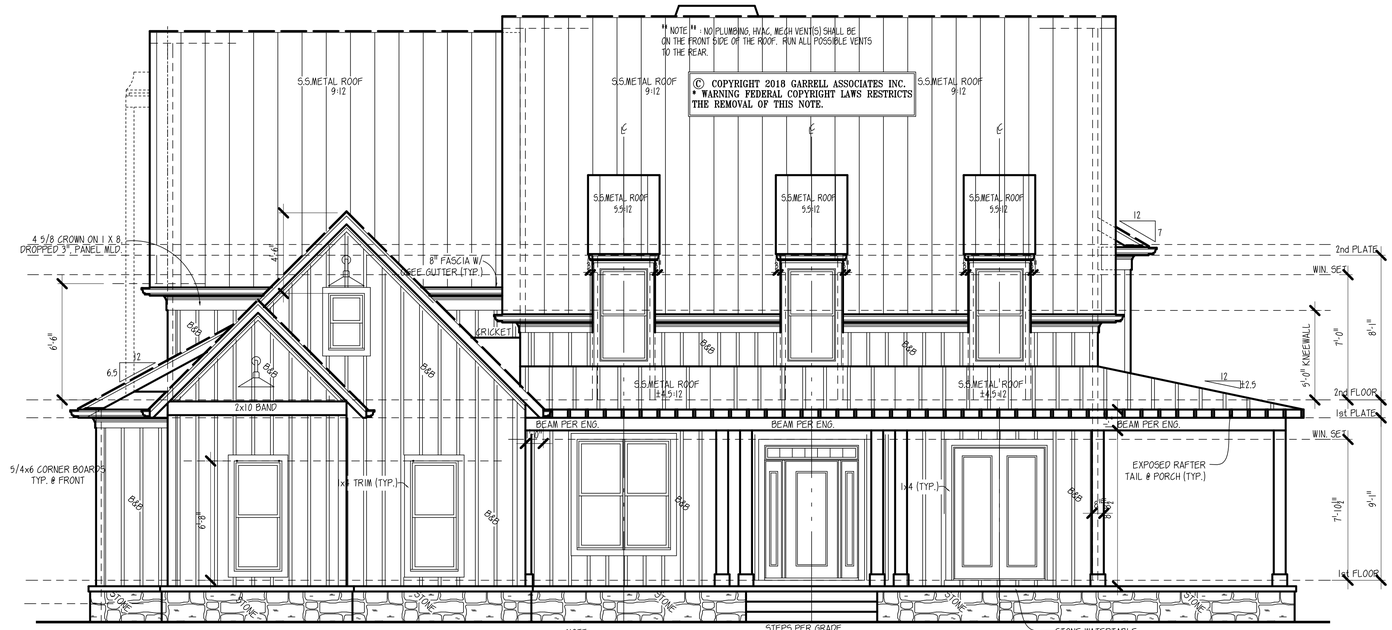
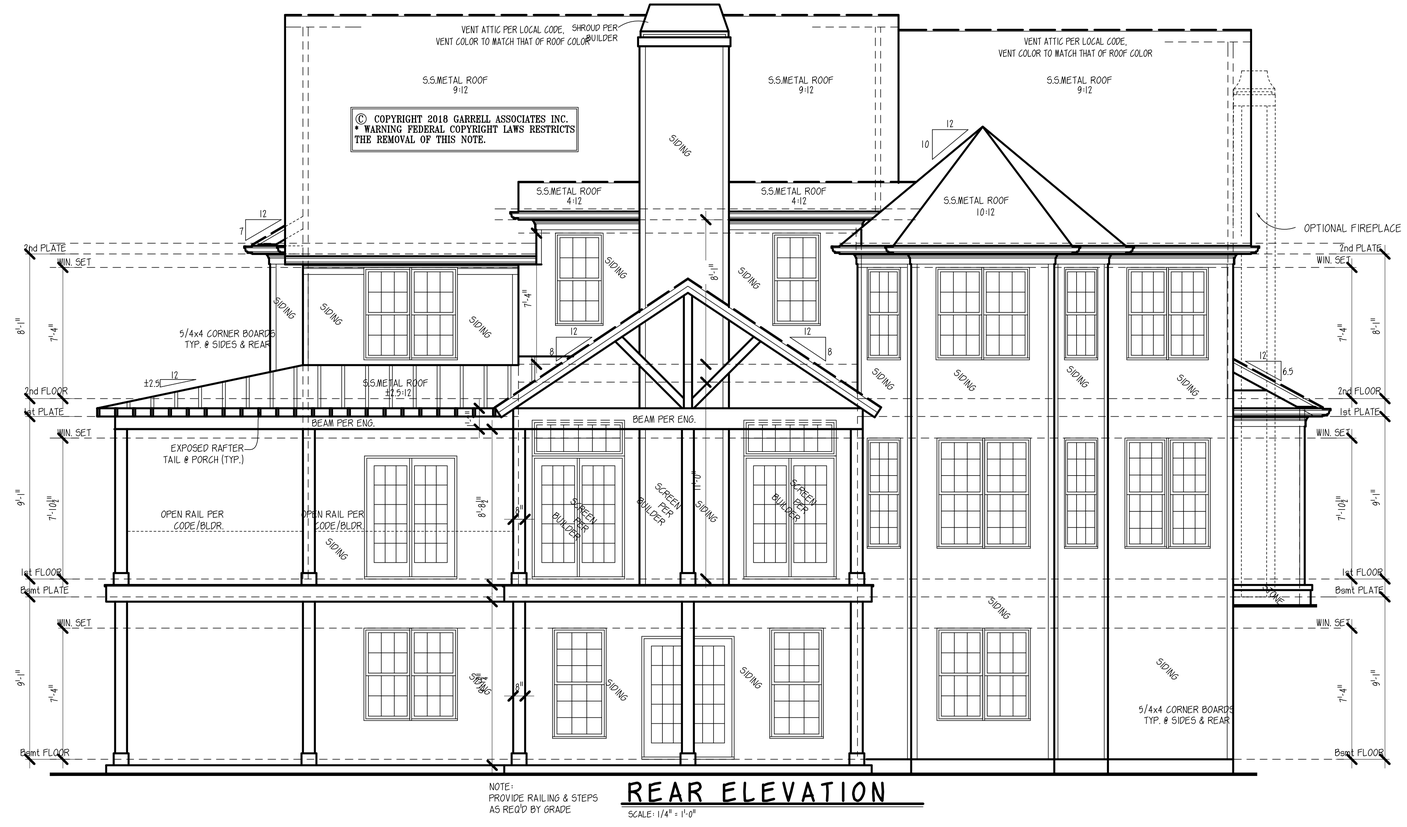


FRONT ELEVATION

SCALE: 1/4" = 1'-0"



REAR ELEVATION

SCALE: 1/4" = 1'-0"

NOTE:
PROVIDE RAILING & STEPS AS REQ'D BY GRADE

COLOR PACKAGE

BRICK:	
SIDING:	
TRIM:	
SHUTTERS:	
METAL ROOFING:	
SHINGLE ROOF:	

BUILDER PLEASE NOTE: REUSE FEE

UNLESS RENEWED IN WRITING, THE LICENSE TO BUILD FROM THIS GARRELL ASSOCIATES, INC. COPYRIGHT PROTECTED PLAN EXPIRES ONE (1) YEAR FROM THE DATE BELOW. IT IS UNLAWFUL TO PRINT OR BUILD FROM THIS PLAN AFTER EXPIRATION DATE. RENEWAL OR REUSE FEE MAY APPLY.

PLAN ISSUED TO: _____ SIGNED: _____

PHONE # : _____ LOT : _____

(GARRELL ASSOCIATES, INC. REP.)

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NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

09/24/2021

Harnett COUNTY NORTH CAROLINA

See Notes on plans

REVISED 12/03/2021. SEE FRAMING CHANGES FROM TRUSS TO CONVENTIONAL ATTCHED AT REAR OF PLANS

LICENSED TO:
EUNICE BUCUR

GARRELL ASSOCIATES INC.
790 PEACHTREE IND. BLVD.
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PHONE (770) 614-3239
WWW.GARRELLASSOCIATES.COM

ASTORIA -B

FRONT & REAR ELEVATIONS

07/09/18

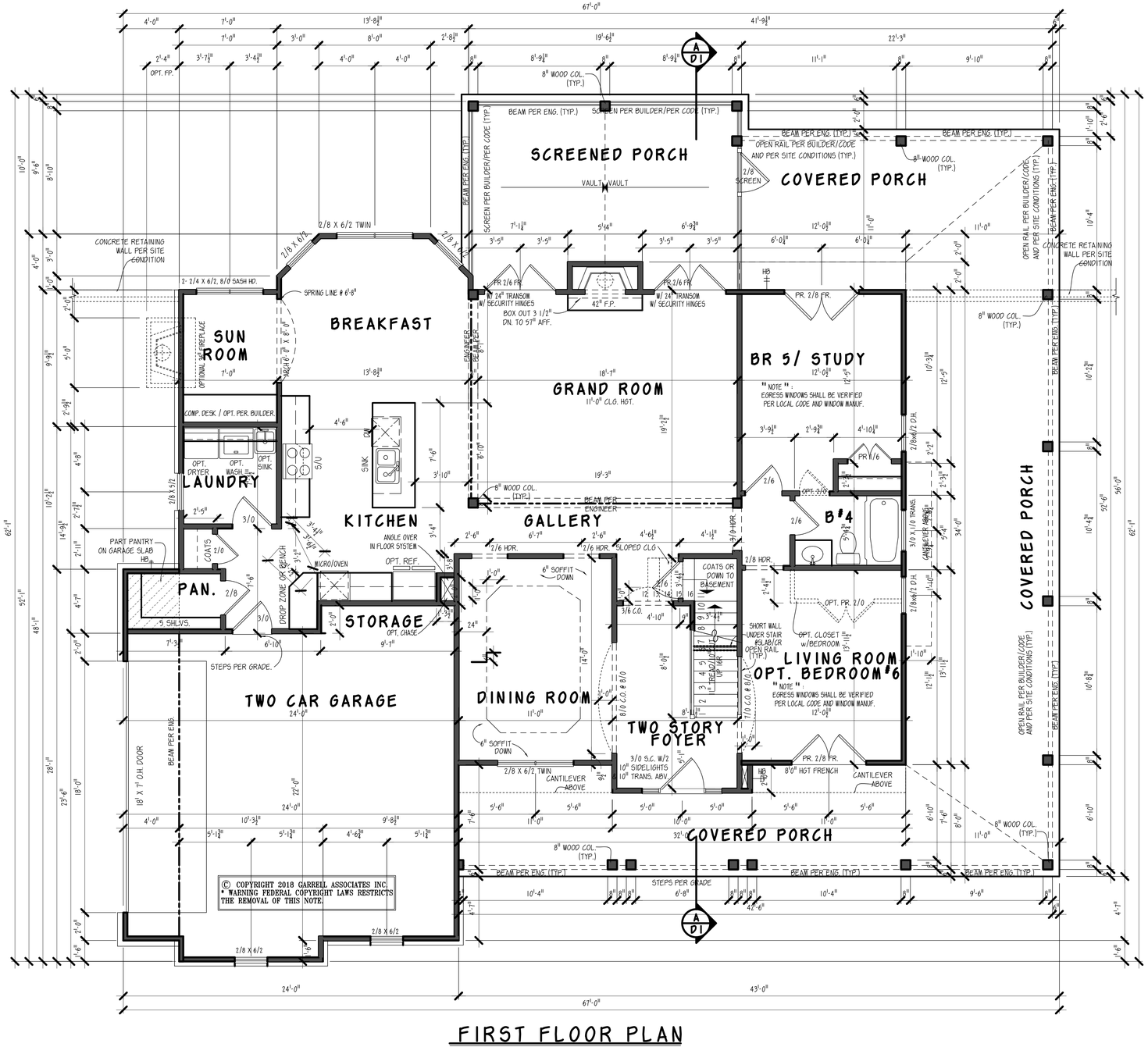
REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

CAUTION: ONLY A QUALIFIED DESIGNER, ARCHITECT, CONTRACTOR, OR STRUCTURAL ENGINEER SHOULD ATTEMPT TO MODIFY THIS PLAN.

FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	E1



FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

SQUARE FOOTAGES	
FIRST FLOOR (HEATED)	1,647 S.F.
2ND FLOOR (HEATED) (CHILDREN RETREAT INCL.)	1,898 S.F.
SUBTOTAL (HEATED)	**3,545 S.F.**
2-CAR GARAGE	559 S.F.
GROSS TOTAL	**4,104 S.F.**

*CALCULATED PER I.R.C. INDUSTRY STD. TO OUTSIDE FACE OF STUD. STAIRS & 2-STORY COUNTED ONCE.

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ASTORIA - B

1st FLOOR PLAN

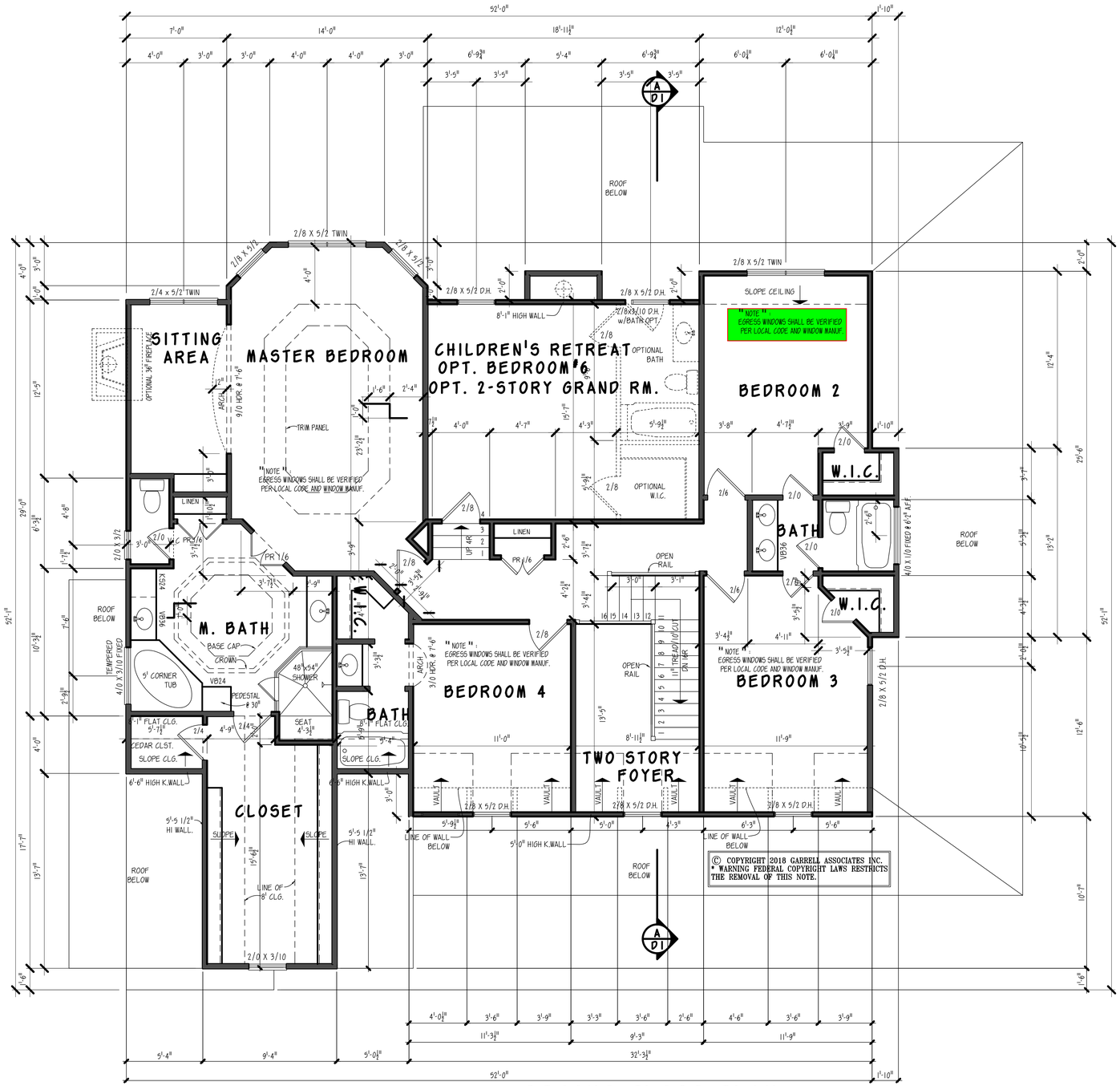
07/09/18

REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	A1



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

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ASTORIA - B

2nd FLOOR PLAN

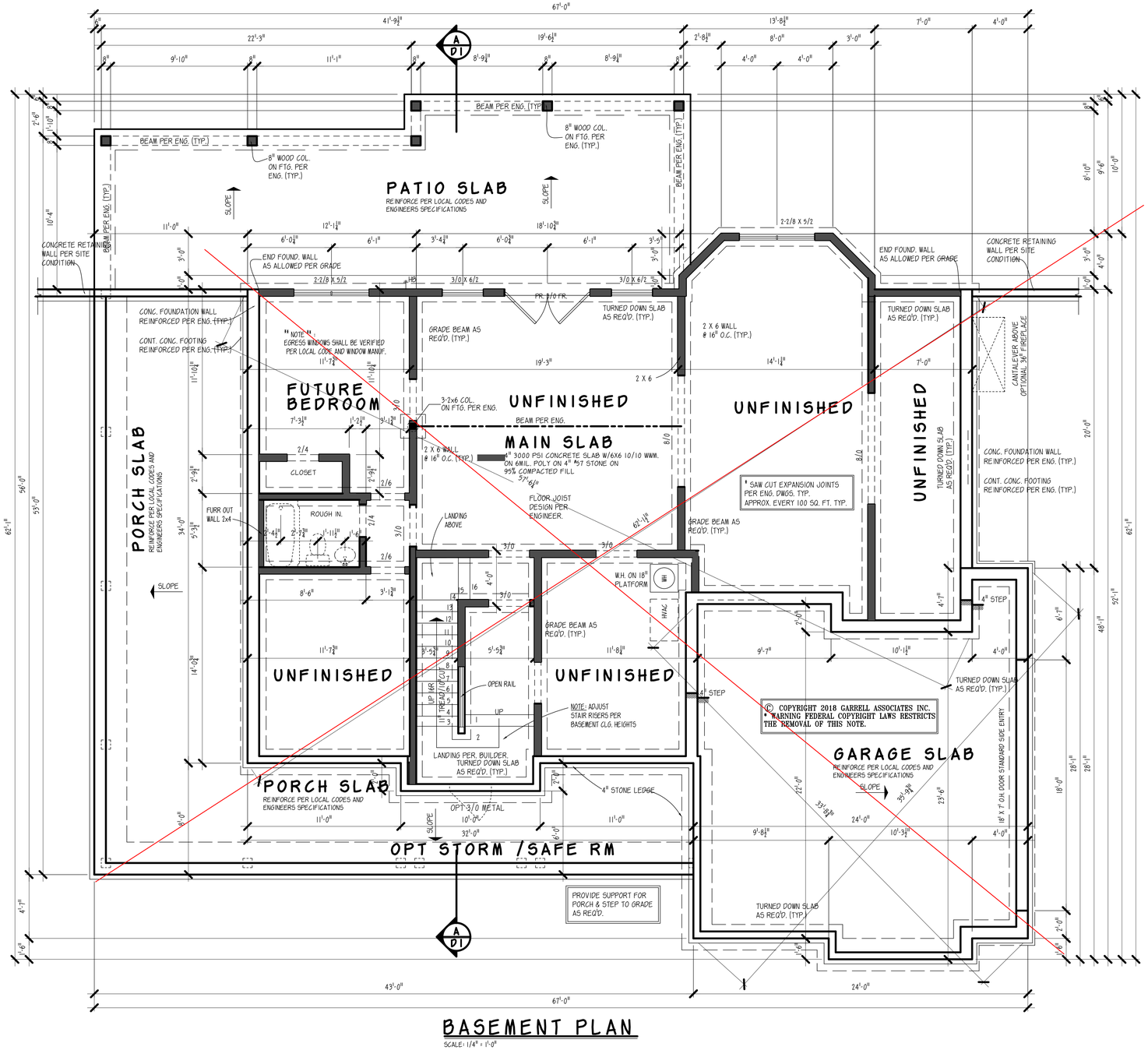
07/09/18

REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	A2



BASEMENT PLAN

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ASTORIA - B

BASEMENT PLAN

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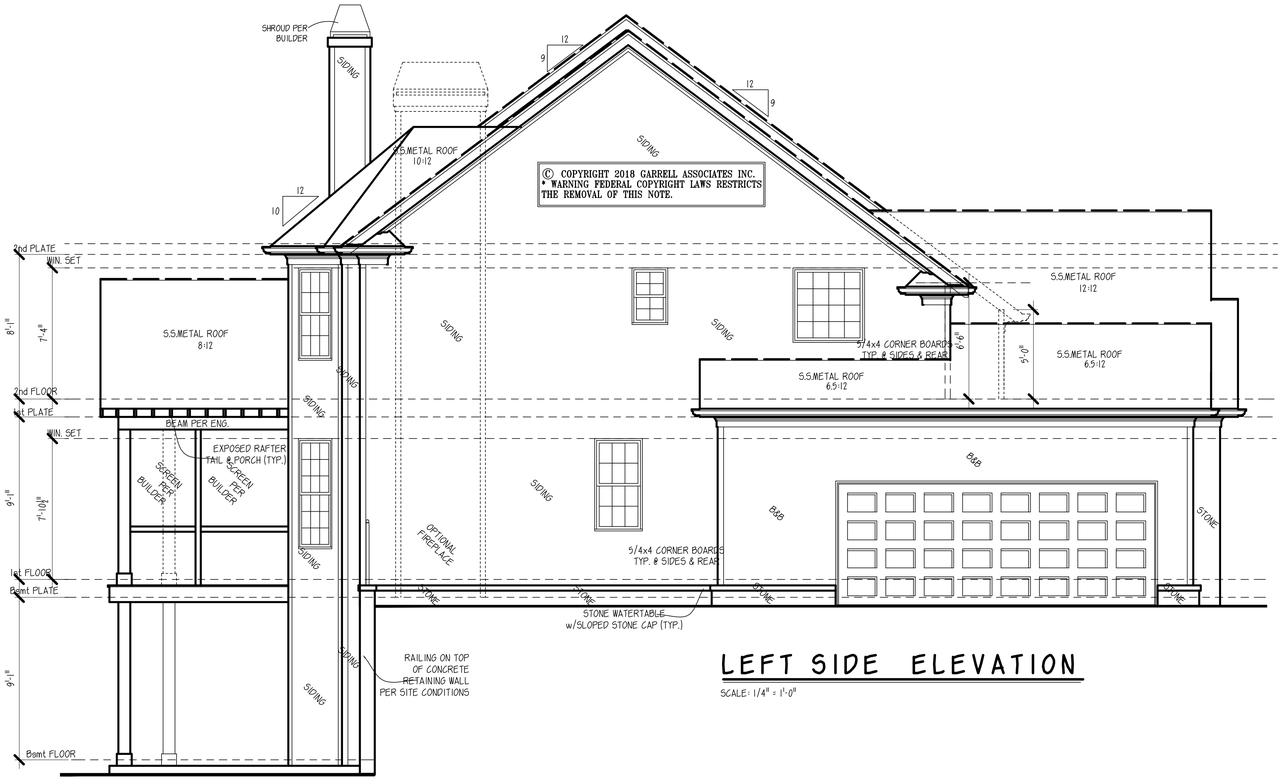

LEFT SIDE ELEVATION

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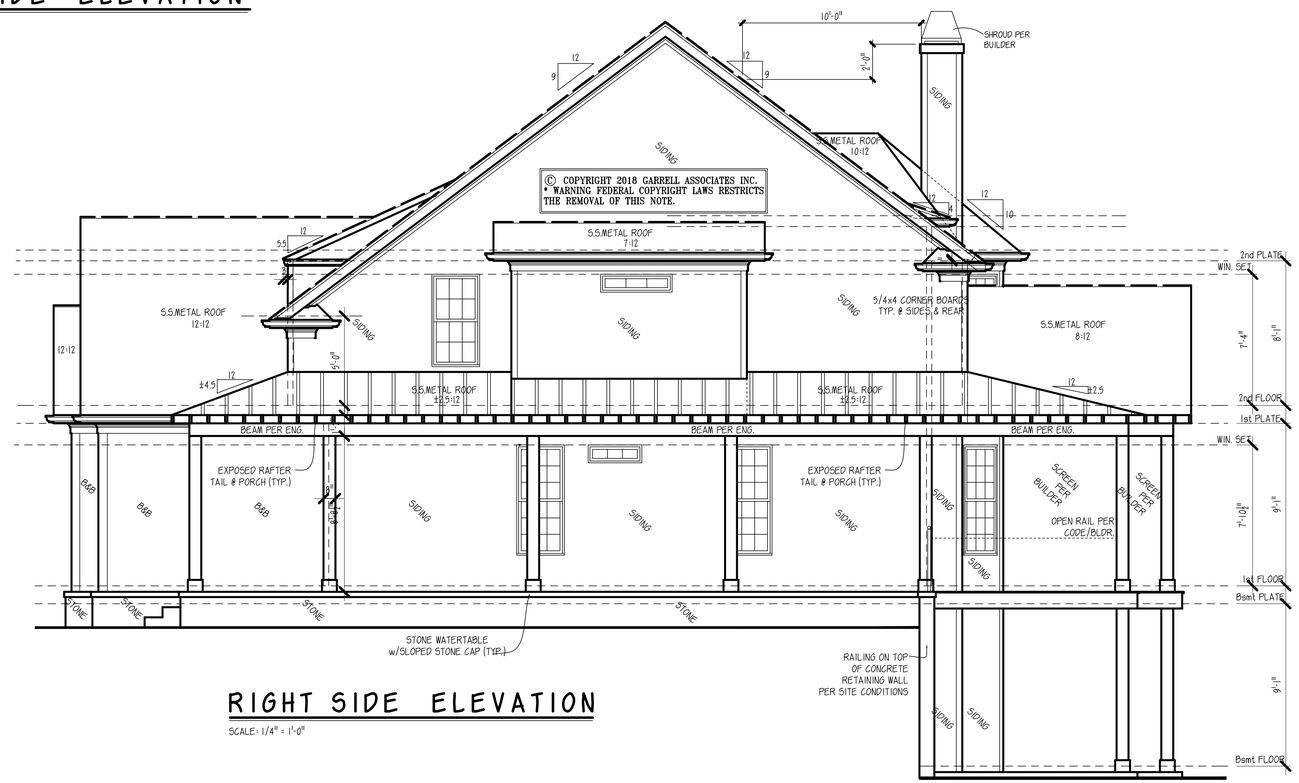

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ASTORIA - B

SIDE ELEVATIONS

07/09/18

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01	07/24/18
98016	04/30/98 (BS)

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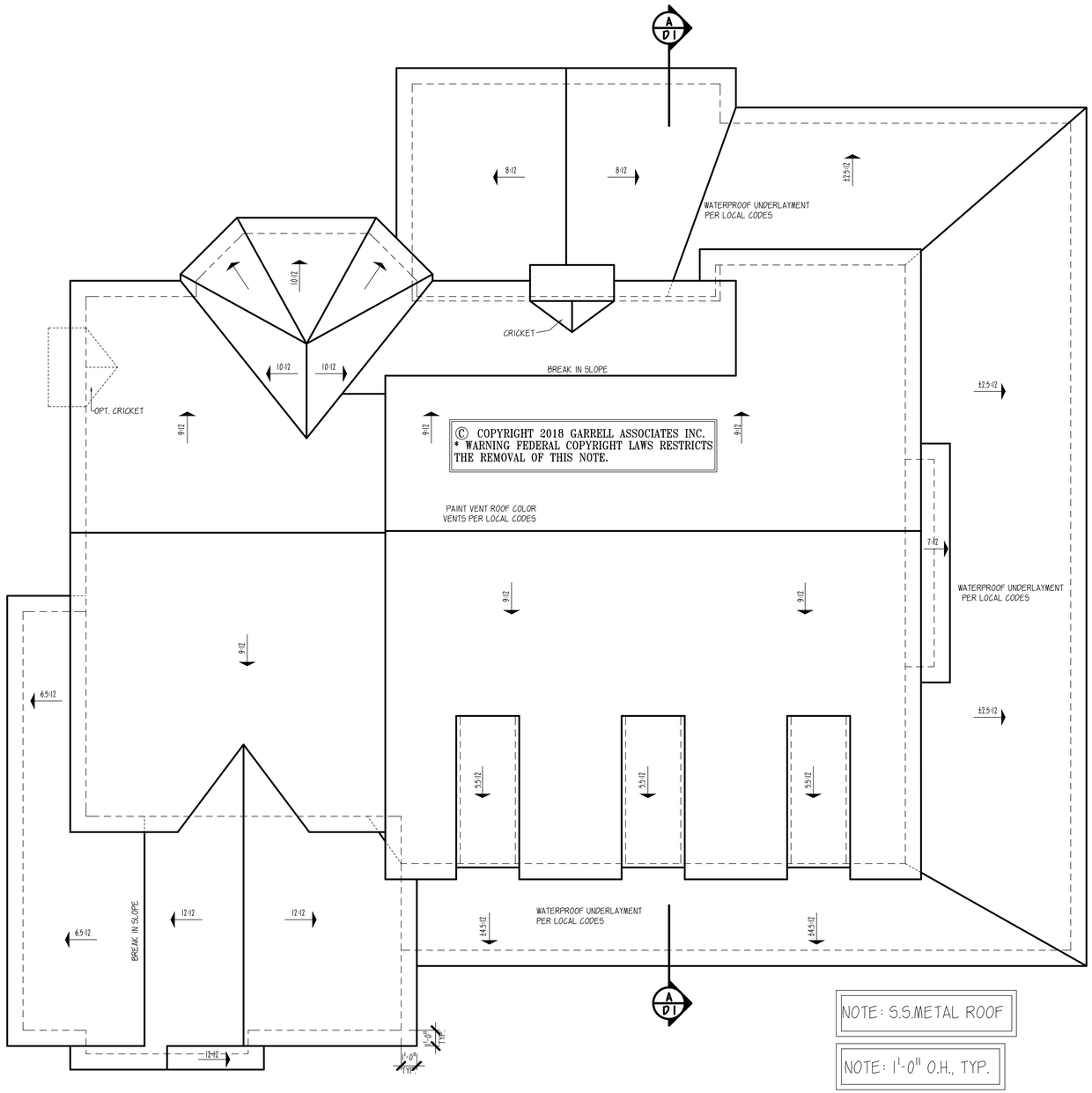
VD	SE



ROOF PLAN

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ASTORIA - B

ROOF PLAN

07/09/18

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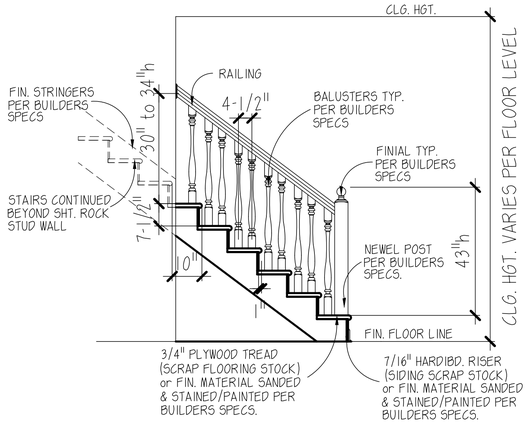
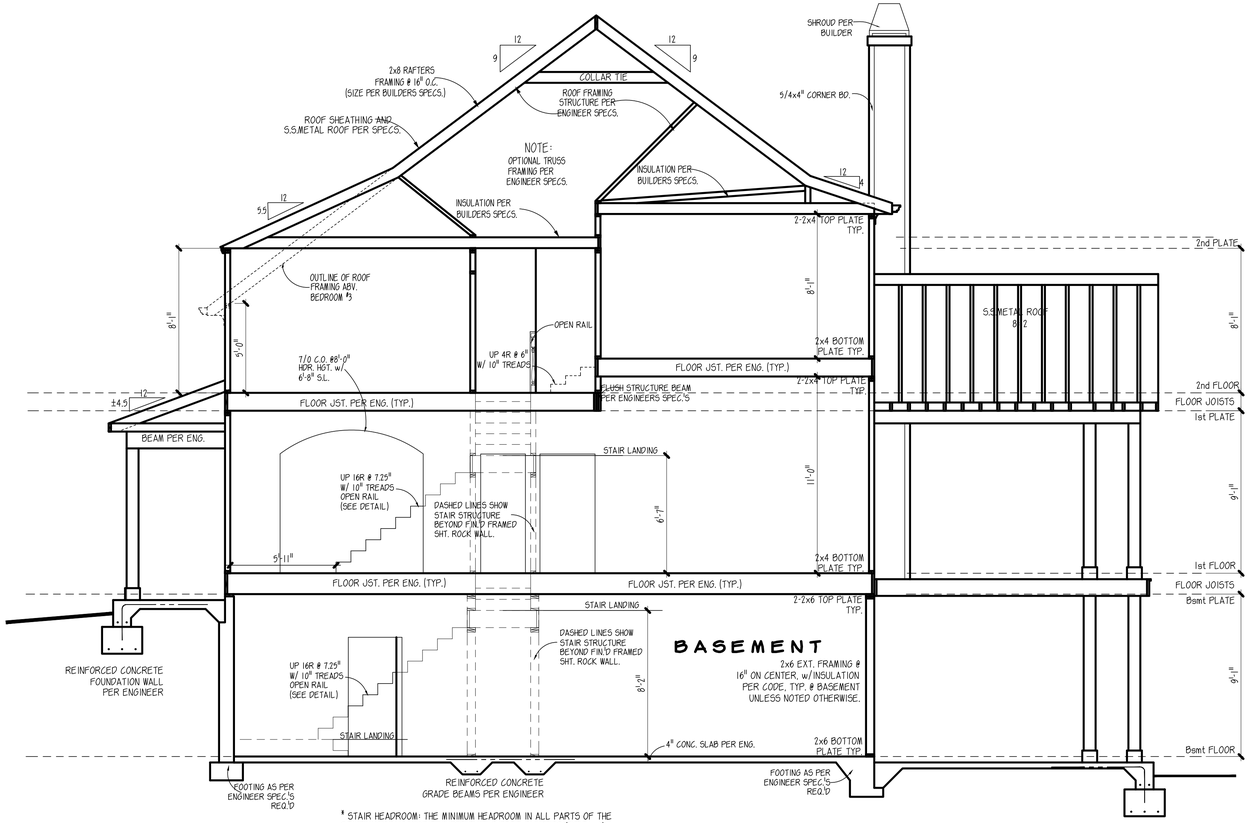
DRAWN BY:	SHEET NO.:
VD	RF





* STAIR HEADROOM: THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6 FEET, 8 INCHES (2032 mm) MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.

SECTION

SCALE: 1/4" = 1'-0"

GENERAL NOTES

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2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO GARRELL ASSOCIATES, INC. FOR JUSTIFICATION OR CORRECTION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
3. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NEVER SCALED.
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6. REINFORCE FOUNDATION WALLS PER LOCAL CODES.
7. ALL FOUNDATION AND STRUCTURAL MEMBERS SHALL BE DESIGNED AND STAMPED BY AN ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT AND VERIFICATION OF ALL STRUCTURAL DETAILS AND CONDITIONS TO MEET ALL LOCAL CODES AND TO INSURE A WELL CONSTRUCTED AND SAFE STRUCTURE.
8. ALL WOOD, CONCRETE AND STEEL STRUCTURAL MEMBERS ARE TO MEET NATIONAL, STATE AND LOCAL BUILDING CODES.
9. ALL COLUMNS OR SOLID FRAMING SHALL BE DESIGNED TO CARRY AND TERMINATE LOADS THROUGH THE STRUCTURE TO FOUNDATION ELEMENTS THAT DISTRIBUTE THE LOADS TO FULL CAPACITY SOILS.
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14. THE DRAWINGS PREPARED BY GARRELL ASSOCIATES INC. ARE ARCHITECTURAL IN NATURE. STRUCTURAL DRAWINGS SHALL BE PREPARED BY A LOCAL ENGINEER PER LOCAL CODES.
15. WINDOW NOTES- PER THE 2012 INTERNATIONAL BUILDING CODE, ALL OPERABLE WINDOWS MUST BE MOUNTED GREATER THAN OR EQUAL TO 24" FROM BOTTOM OF WINDOW TO FINISHED FLOOR, WHEN TH E WINDOW IS GREATER THAN OR EQUAL TO 72" FROM THE GRADE IN LIEU OF DECKING SYSTEMS, STOOPS ETC. WITH RAILINGS. ALTERNATE WINDOW FALL DEVICES CONFIRMING TO ASTM 2090 MAY BE USED IF OPERABLE WINDOW IS MOUNTED CLOSER THAN 24" A.F.F.

LICENSED TO:
EUNICE BUCUR

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PHONE (770) 614-3239
WWW.GARRELLASSOCIATES.COM

ASTORIA - B

SECTION & DETAIL

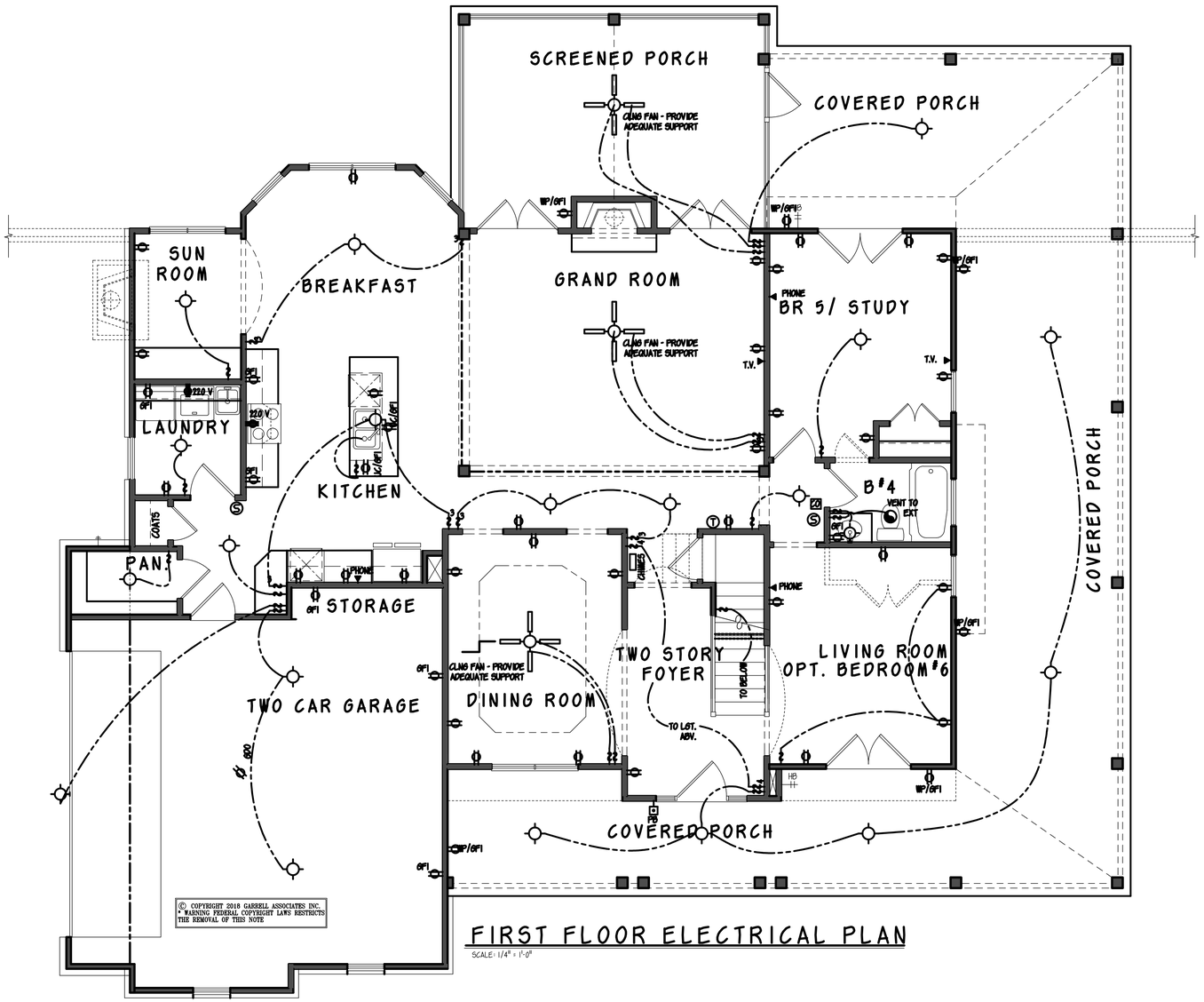
07/09/18

REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	D1



ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX OUTLET (GROUNDED TYPE)
WP/GFI	WEATHER PROOF DUPLEX OUTLET (GFI)
S	WALL SWITCH CONTROLLED DUPLEX OUTLET
AC	ABOVE COUNTER LOCATION
FL	FLUSH FLOOR WALL SWITCH CONTROLLED DUPLEX OUTLET, OWNER VERIFY LOCATION
220 V	220 VOLT OUTLET OR CONNECTION
T.V.	TELEVISION ANTENNA/CABLE OUTLET
PHONE	TELEPHONE OUTLET LOCATION
CHIMES	DOOR CHIME LOCATION
J	120 VOLT JUNCTION BOX
	SINGLE POLE WALL SWITCH
	SINGLE POLE WALL SWITCH WITH DIMMER
	3-WAY WALL SWITCH
	3-WAY WALL SWITCH WITH DIMMER
	CEILING MOUNTED LIGHT FIXTURE
	WALL BRACKET MOUNTED LIGHT FIXTURE
	SUSPENDED CEILING MOUNTED LIGHT FIXTURE
	RECESSED DIRECTIONAL CEILING LIGHT FIXTURE
	RECESSED CEILING LIGHT FIXTURE
WP	RECESSED LIGHT FOR WET AREA
UC	ONE TUBE UNDER COUNTER FLUORESCENT LIGHT
FLOODS	EXTERIOR CAST ALUMINUM FLOOD LIGHTS
	CEILING MOUNTED FAN - PADDLE
EXHAUST FAN	CEILING MOUNTED FAN - EXHAUST
HEAT LAMP FAN	CEILING MOUNTED FAN AND HEATER
HEAT LAMP FAN	CEILING MOUNTED GAN, LIGHT, AND HEATER
PL	PORCELAIN LAMPHOLDER
DB	DOOR BELL BUTTON
SMOKE DET.	DETECTOR REQUIRE
	SMOKE DETECTOR
T	THERMOSTAT
GDO	AUTOMATIC GARAGE DOOR OPENER OUTLET
UC	UNDERCABINET LIGHT
CO	CARBON MONOXIDE DECTECTOR

FIRST FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

NOTE: THIS IS AN ELECTRICAL SCHEMATIC PLAN. CHECK LOCAL CODES. ALL DSL, CABLE, SECURITY & OTHER HIGH & LOW VOLTAGE WIRING BY OTHERS.

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ASTORIA - B

1st FLOOR ELECTRICALS

07/09/18

REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

CAUTION: ONLY A QUALIFIED DESIGNER, ARCHITECT, CONTRACTOR, OR STRUCTURAL ENGINEER SHOULD ATTEMPT TO MODIFY THIS PLAN.

FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	W1

ELECTRICAL LEGEND

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WP	WEATHER PROOF DUPLEX OUTLET (GFI)
S	WALL SWITCH CONTROLLED DUPLEX OUTLET
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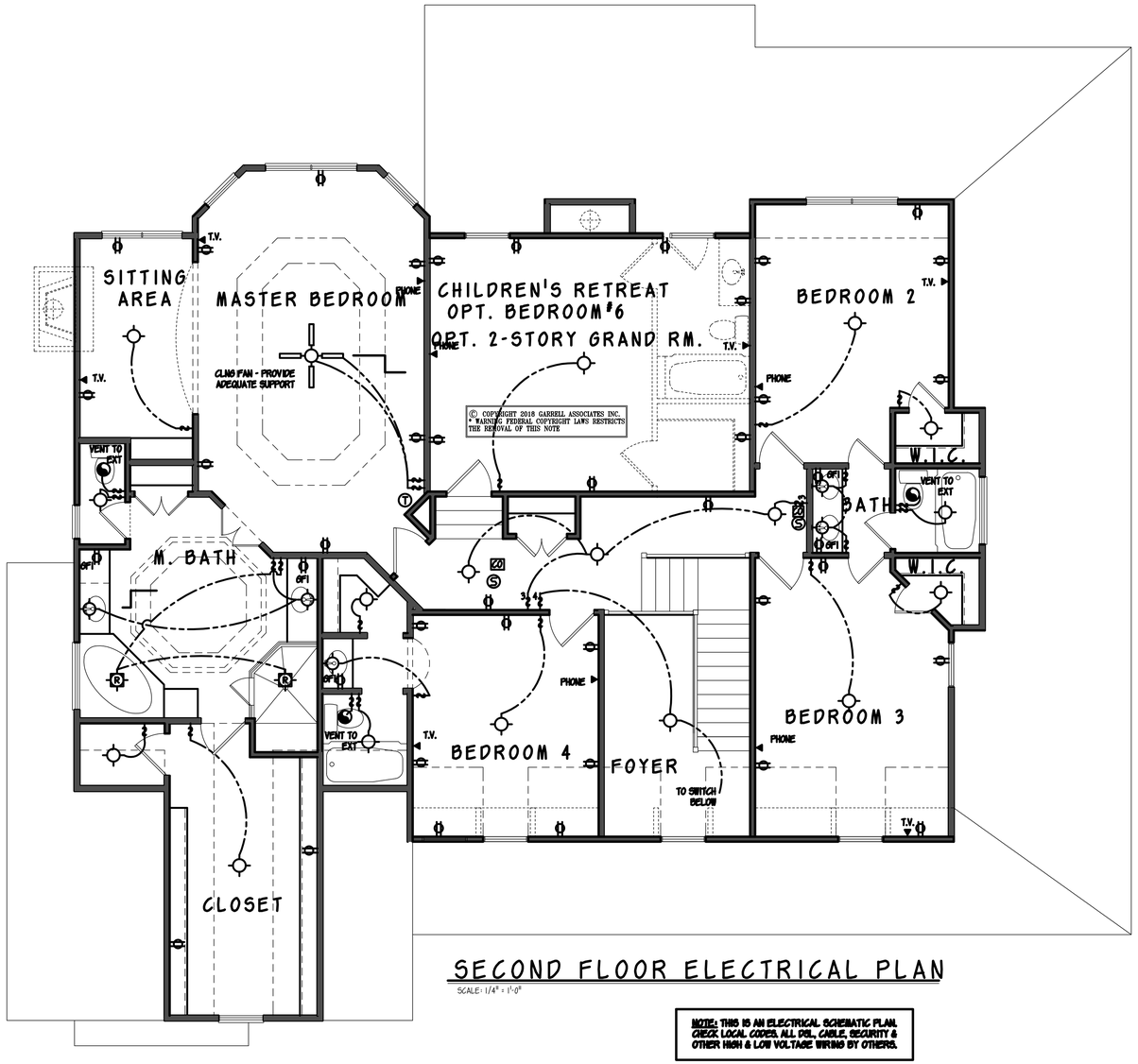

SECOND FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

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WWW.GARRELLASSOCIATES.COM

ASTORIA - B

2nd FLOOR ELECTRICALS

07/09/18

REV. NO.	REV. DATE/INIT.
01	07/24/18
98016	04/30/98 (BS)

CAUTION: ONLY A QUALIFIED DESIGNER, ARCHITECT, CONTRACTOR, OR STRUCTURAL ENGINEER SHOULD ATTEMPT TO MODIFY THIS PLAN.

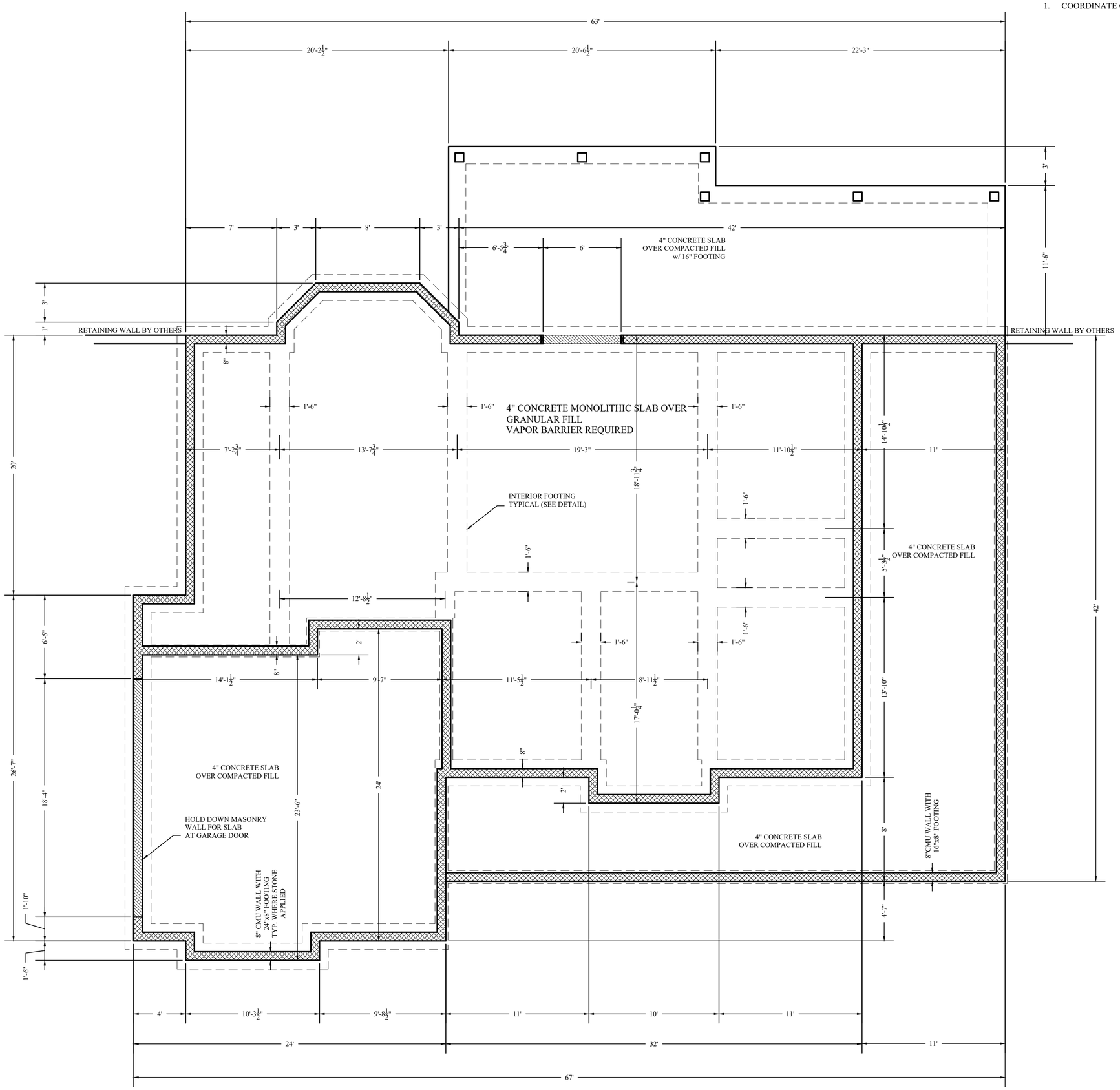
FILE LOCATION:

18063

DRAWN BY:	SHEET NO.:
VD	W2

NOTES:

1. COORDINATE CLOSELY WITH ARCHITECTURAL DRAWINGS



FOUNDATION PLAN

3/16"=1'-0"

WHITE HOUSE BUILDING ASSOCIATES LLC
BUILDING ASSOCIATES LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

DRAWN BY: LRW
DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

FOUNDATION PLAN

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

BUCUR RESIDENCE

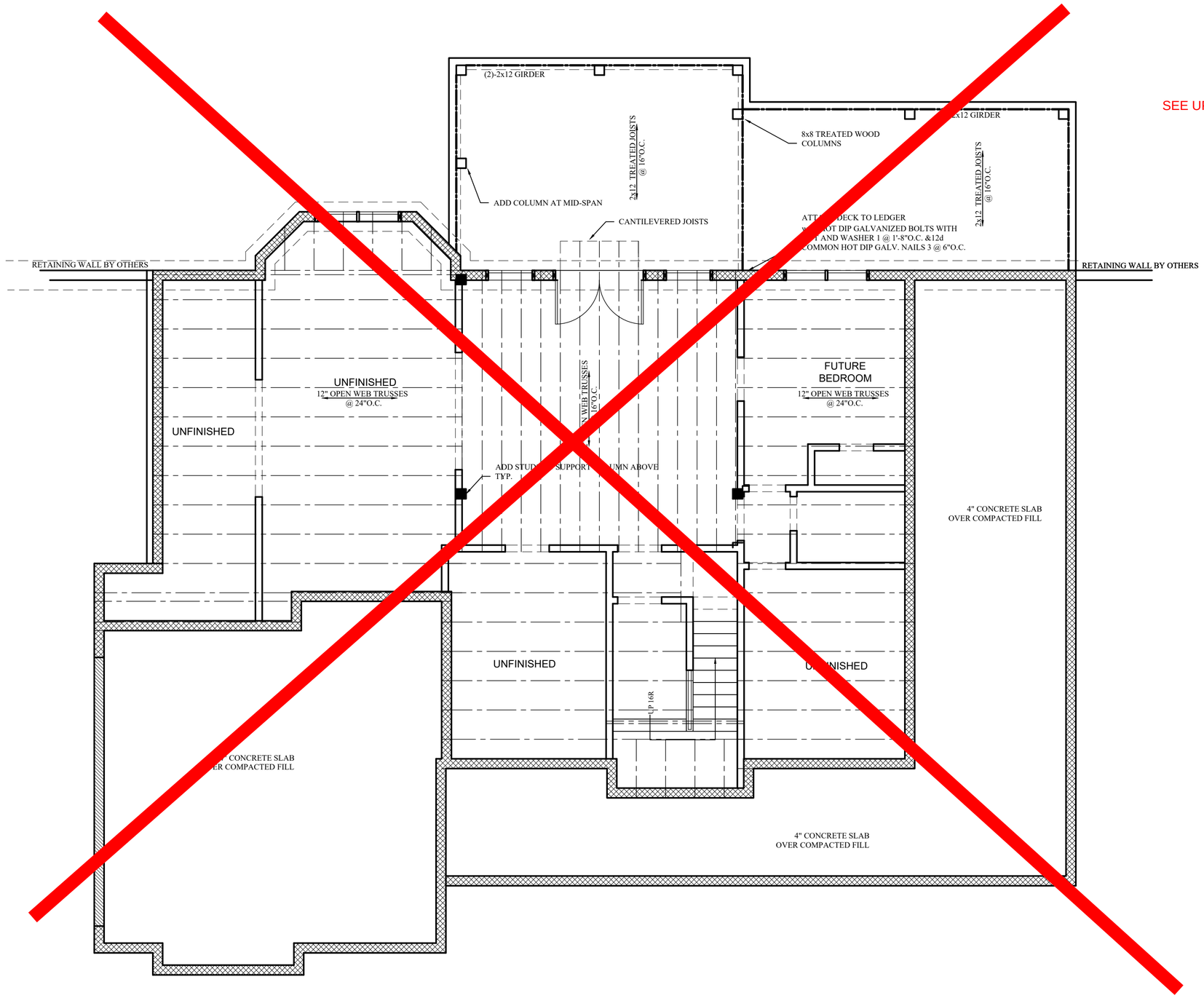
1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

R1

NOTES:

1. NOTES REFER TO FRAMING DIRECTLY OVER HEAD
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

SEE UPDATED FRAMING DESIGN



BASEMENT PLAN

3/16"=1'-0"

WHITE HOUSE BUILDING ASSOCIATES LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

DRAWN BY: LRW
DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

BASEMENT

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BUCUR RESIDENCE
1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

R2

SEE UPDATED FRAMING DESIGN

FIRST FLOOR PLAN

3/16"=1'-0"

NOTES:

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2. ALL NOTES REFER TO FRAMING DIRECTLY OVER HEAD

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910-978-5195

DRAWN BY: LRW
DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

FIRST FLOOR PLAN

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BUCUR RESIDENCE
1418 CYPRESS CHURCH ROAD
LILLINGTON, NORTH CAROLINA

R3

SECOND FLOOR PLAN

3/16"=1'-0"

NOTES:

1. COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS

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910-978-5195

DRAWN BY: LRW
DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

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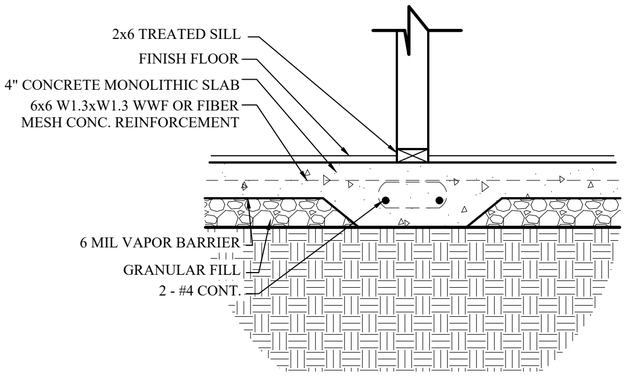
SECOND FLOOR PLAN

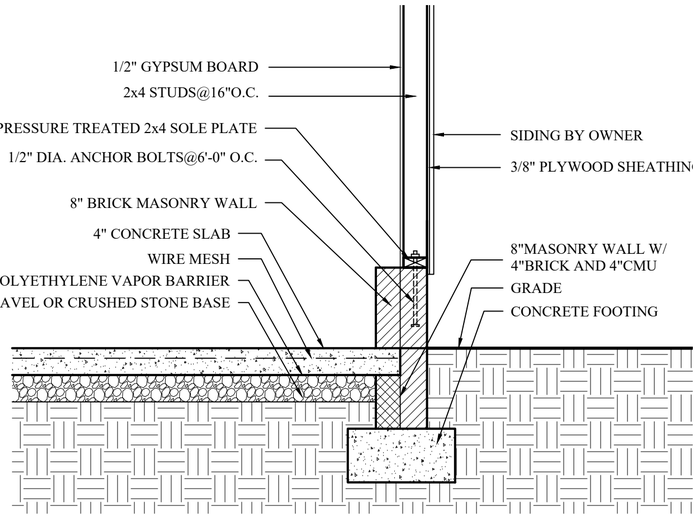
BUCUR RESIDENCE
1418 CYPRESS CHURCH ROAD
LILLINGTON, NORTH CAROLINA

R4



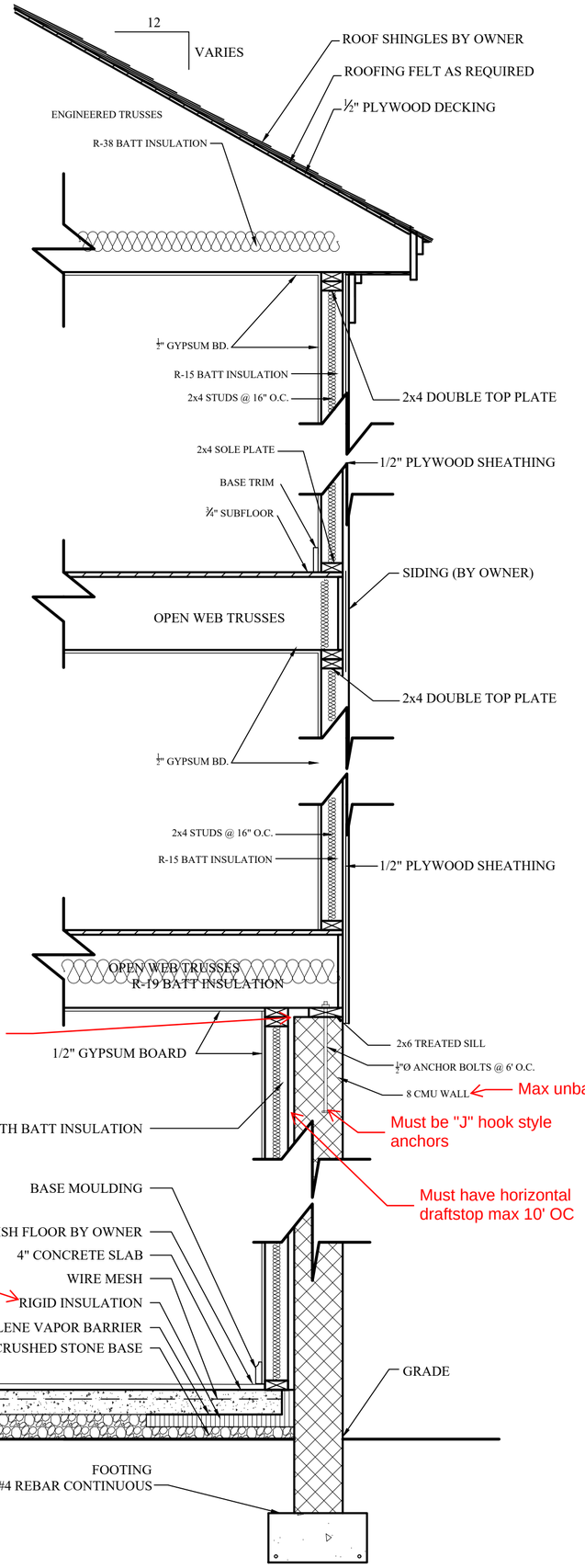
INTERIOR FOOTING

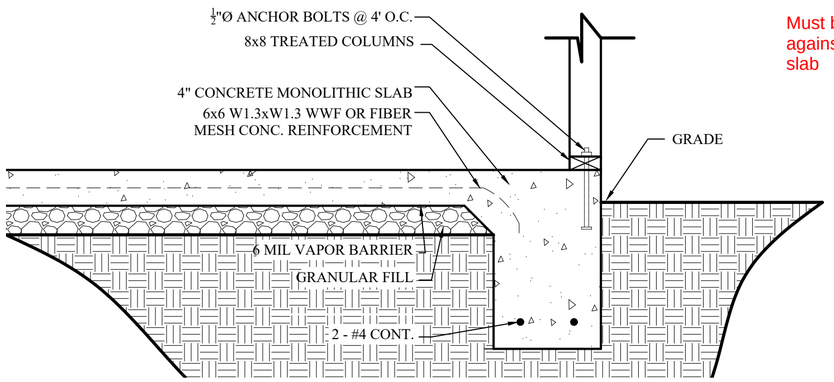
SCALE:GRAPHIC



GARAGE WALL DETAIL

SCALE:GRAPHIC





TURN DOWN FOOTING AT PATIO

SCALE:GRAPHIC

TYPICAL WALL SECTION

SCALE:GRAPHIC

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DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

DETAILS

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BUCUR RESIDENCE
1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

R5

NOTES:

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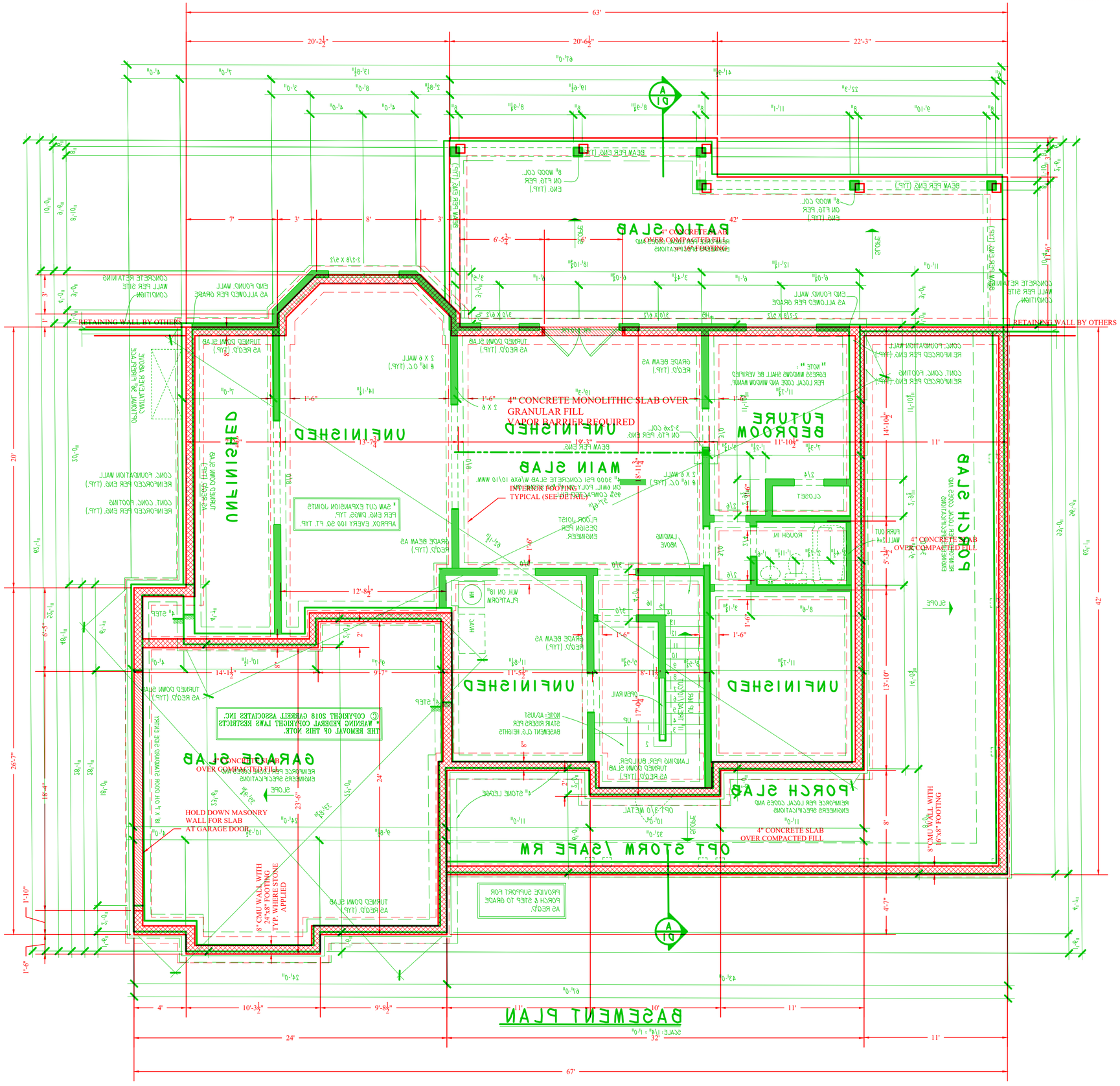

FOUNDATION PLAN

3/16"=1'-0"

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BUILDING CONSULTANTS LLC
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P.O. BOX 1662 LELAND, NORTH CAROLINA
910/978-5195

DRAWN BY: LRW
DATE: 1-Sep-21
REVISED:
SCALE: AS NOTED

FOUNDATION PLAN

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LILLINGTON, NORTH CAROLINA

R1

1 OF 5

NOTES:

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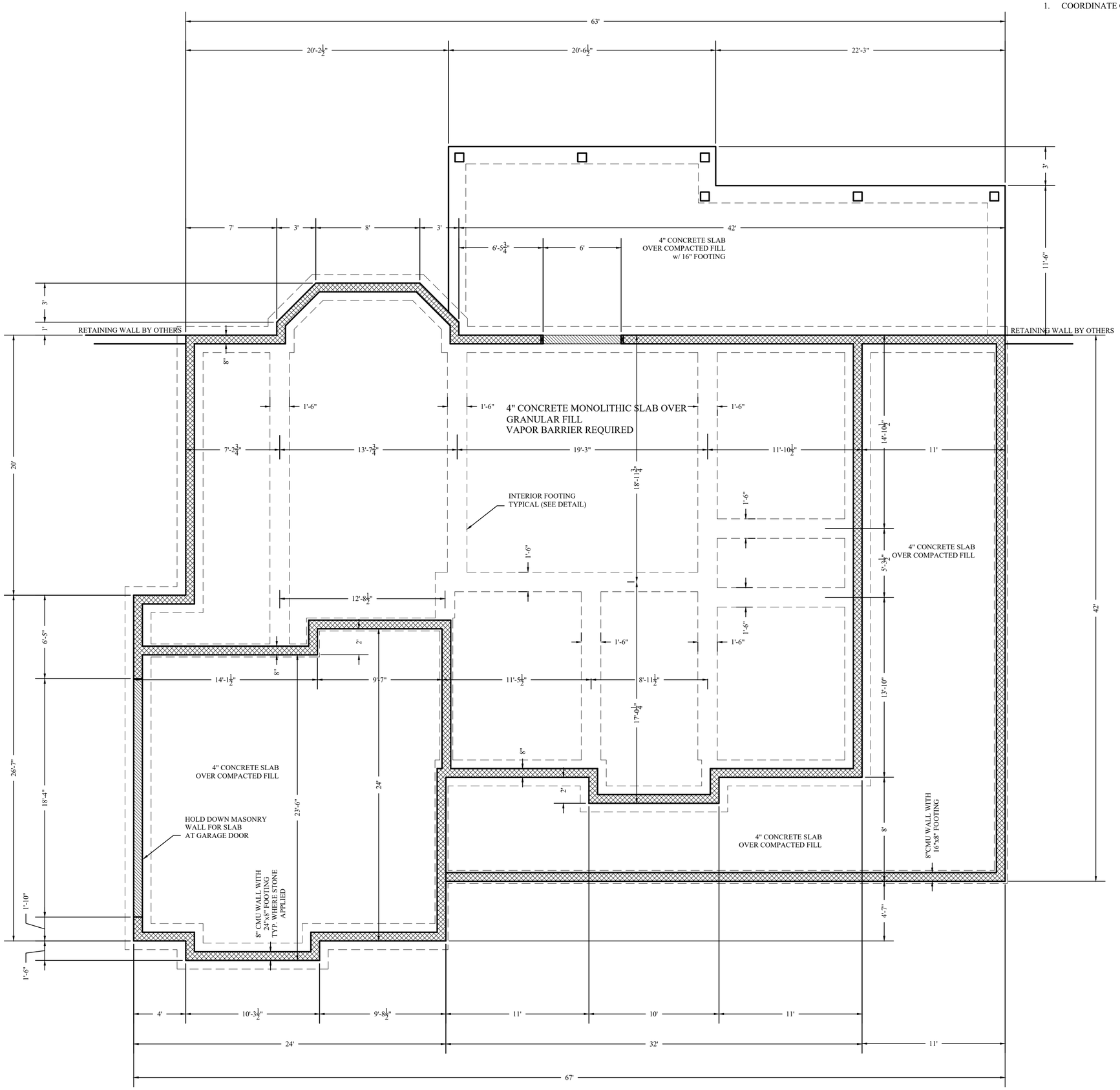

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DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

FOUNDATION PLAN

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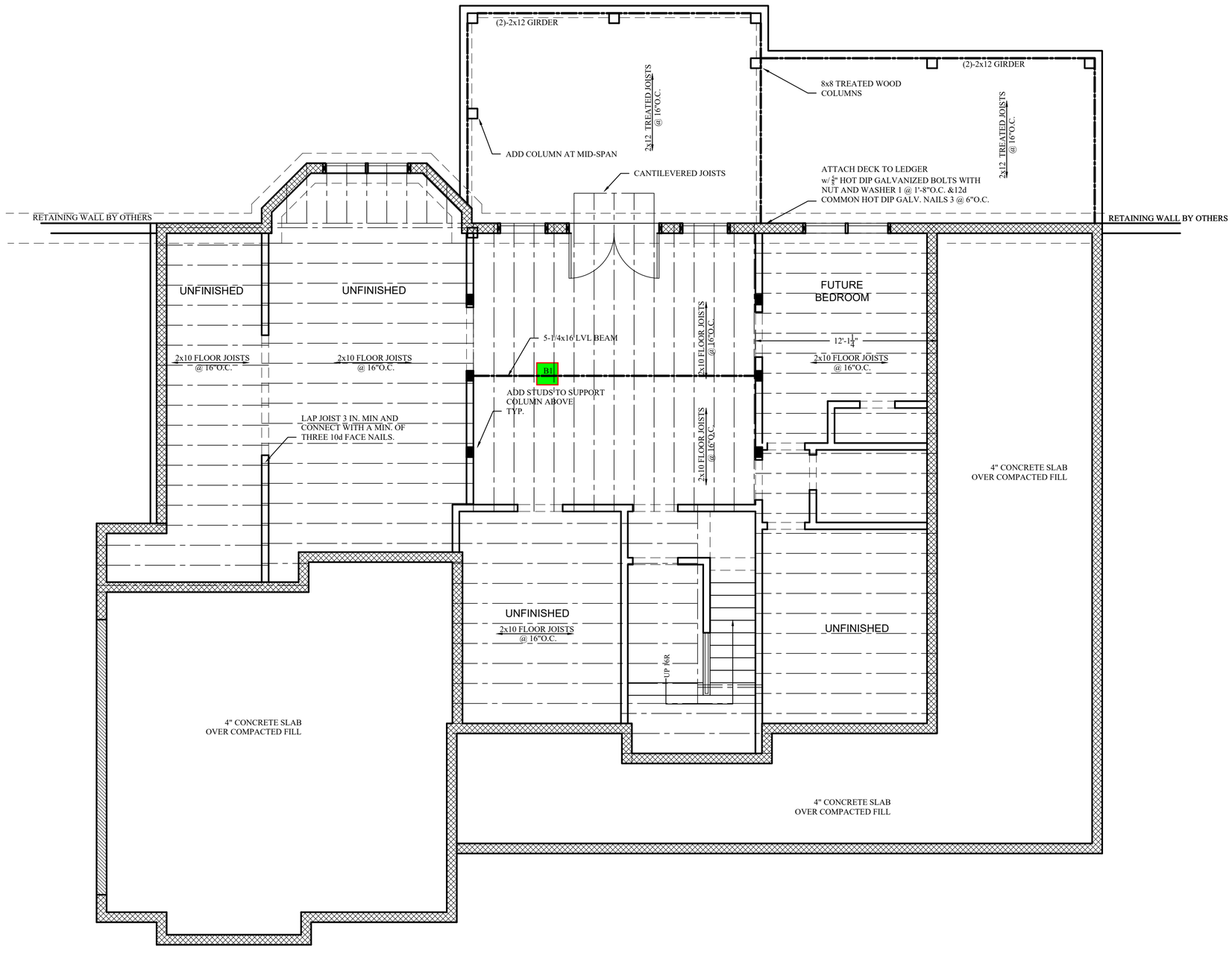
1. NOTES REFER TO FRAMING DIRECTLY OVER HEAD
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS



BASEMENT PLAN

3/16"=1'-0"

WHITE HOUSE BUILDING ASSOCIATES LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

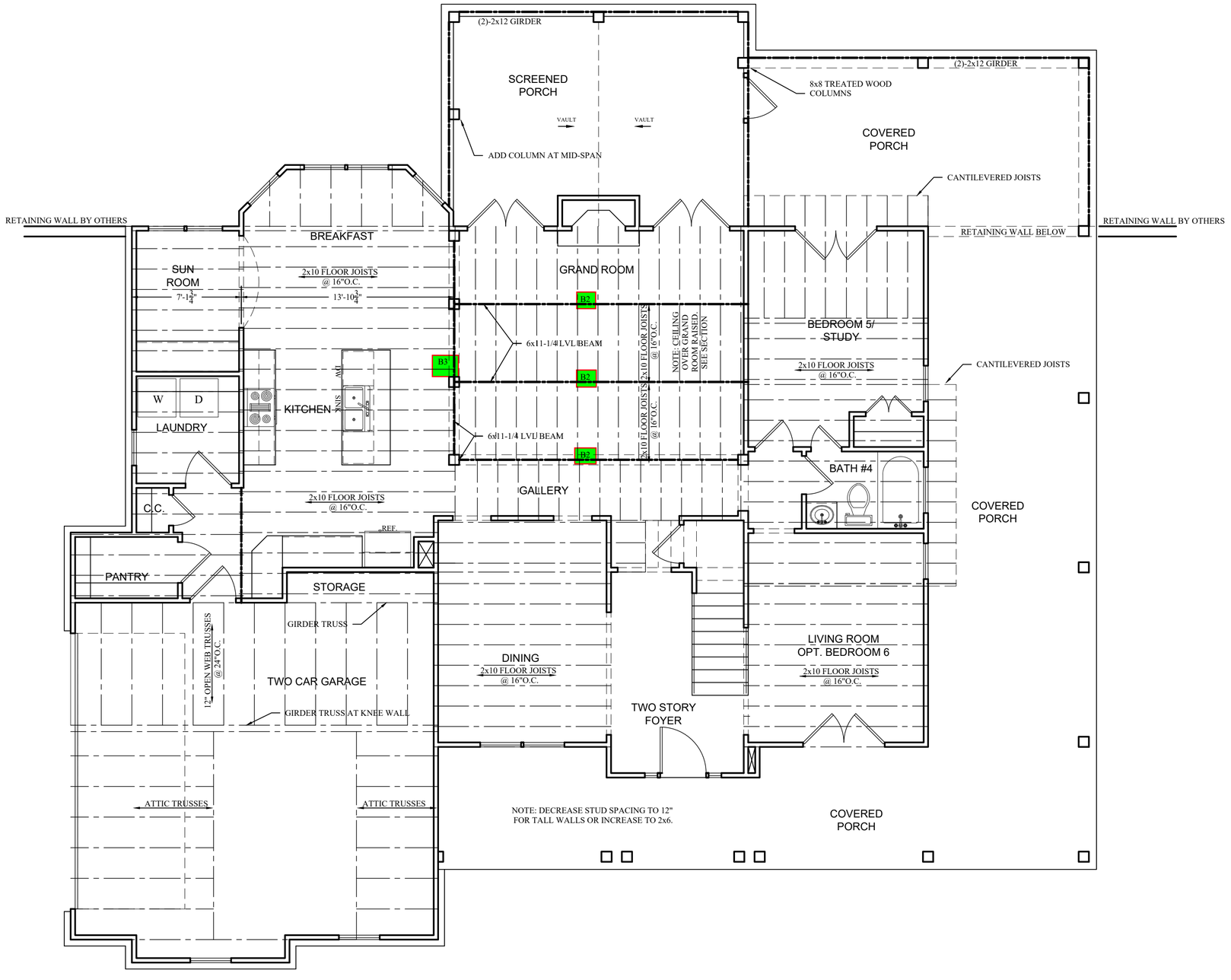
DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

BUCUR RESIDENCE

1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

R2



FIRST FLOOR PLAN

3/16"=1'-0"

NOTES:

1. COORDINATE ALL DIMENSIONS CLOSELY WITH ARCHITECTURAL DRAWINGS.
2. ALL NOTES REFER TO FRAMING DIRECTLY OVER HEAD

WHITE HOUSE BUILDING ASSOCIATES LLC
WHITE HOUSE
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P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

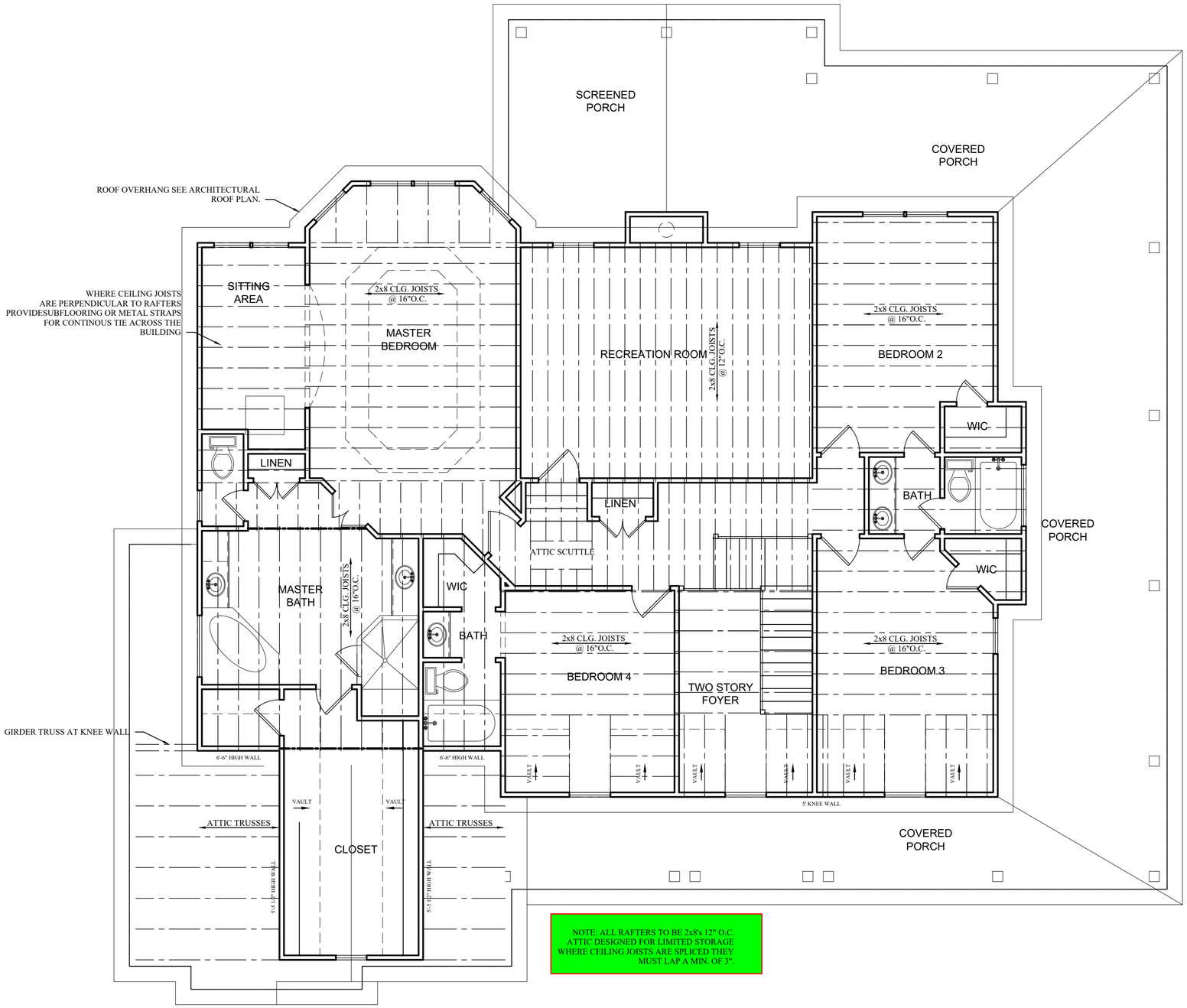
DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

FIRST FLOOR PLAN

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

BUCUR RESIDENCE
1418 CYPRESS CHURCH ROAD
LILLINGTON, NORTH CAROLINA

R3



SECOND FLOOR PLAN

3/16"=1'-0"

NOTES:

1. COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS

WHITE HOUSE BUILDING ASSOCIATES LLC
BUILDING ASSOCIATES LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

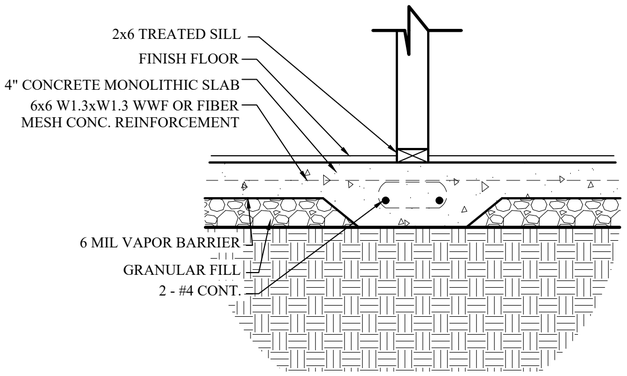
DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

SECOND FLOOR PLAN

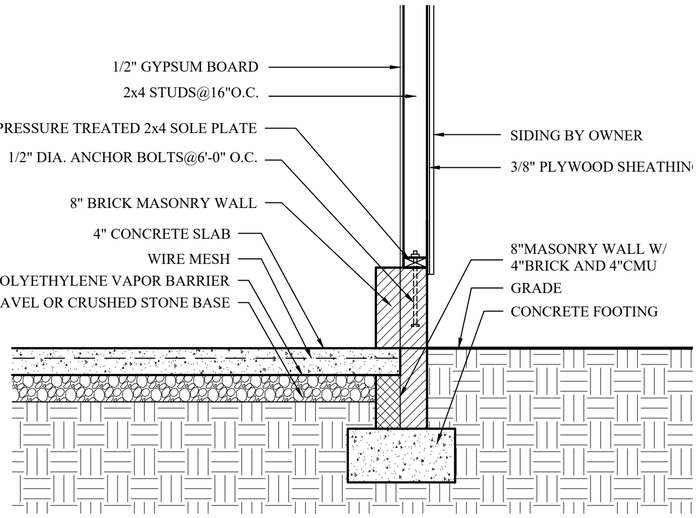
BUCUR RESIDENCE
1418 CYPRESS CHURCH ROAD
LILLINGTON, NORTH CAROLINA

R4



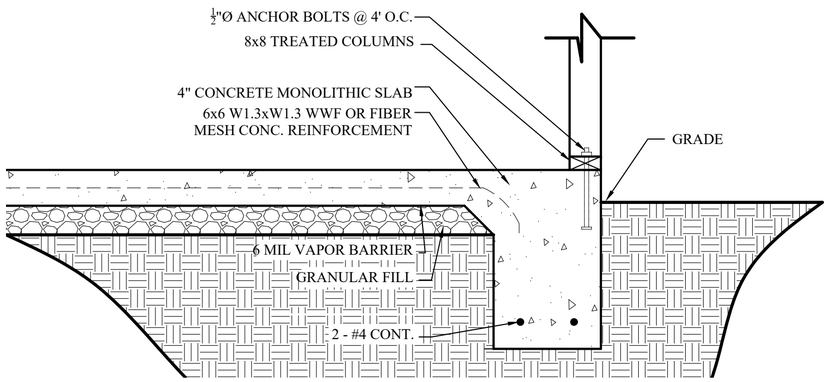
INTERIOR FOOTING

SCALE:GRAPHIC



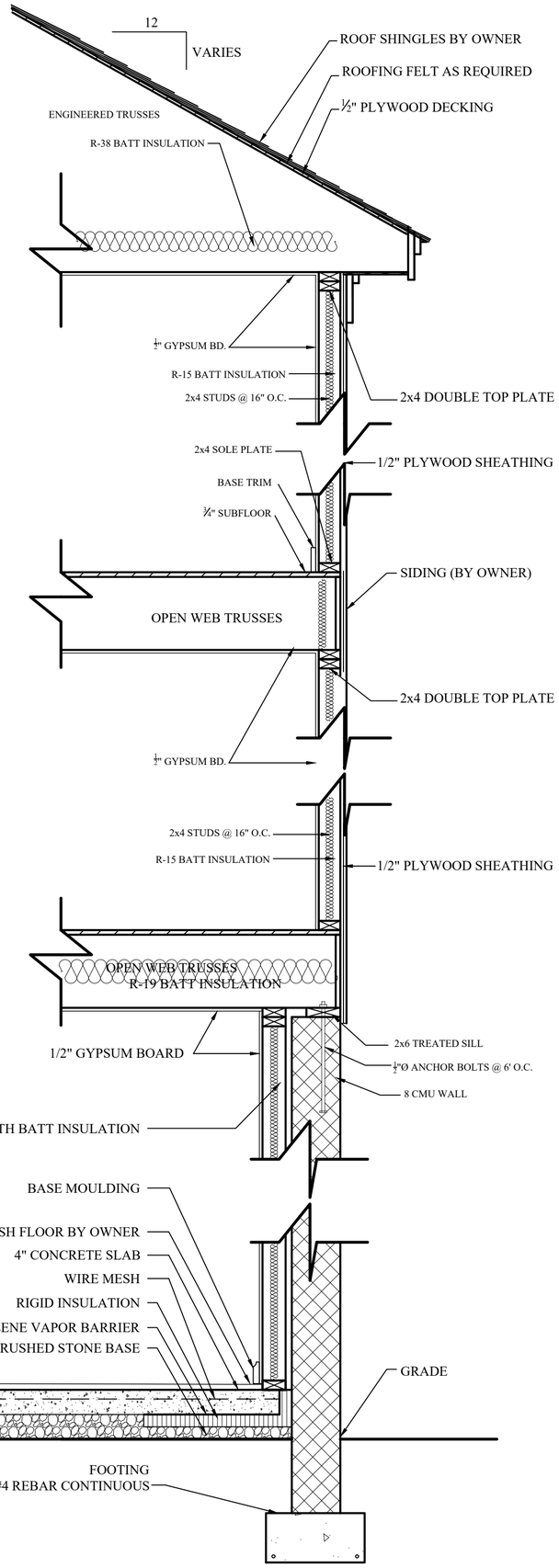
GARAGE WALL DETAIL

SCALE:GRAPHIC



TURN DOWN FOOTING AT PATIO

SCALE:GRAPHIC



TYPICAL WALL SECTION

SCALE:GRAPHIC

WHITE HOUSE BUILDING ASSOCIATES LLC
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WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

DETAILS

BUILDER SHALL ENSURE COMPLIANCE WITH APPLICABLE BUILDING CODES AND ZONING ORDINANCES. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE CONSTRUCTION BEGINS.

BUCUR RESIDENCE
1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

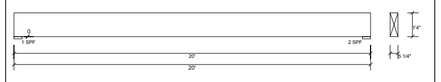
R5

Client:
Project:
Address:

Date: 11/23/2021
Input by:
Job Name:
Project #:

B1 LP-LVL 2900Fb-2.0E 5.250" X 16.000" - PASSED Level

Level



User Inputs

Design Method:	ASD	Load Sharing:	No	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	20-0-0
Type:	Girder	Moisture Condition:	Dry	Bearings	
Application:	Floor	Temperature:	Temp <= 100°F	Brg 1:	5.5" SPF
Plies:	1	Decking:	Not Checked	Brg 2:	5.5" SPF
Material Type:	LVL	Defl. LL Span:	L / 480		
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240		
Depth:	16	Defl. TL Span:	L / 240		
Width:	5.25	Defl. TL Cant:	L / 120		

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.941277715533811		1	1	1	No	1	1

Ei (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
3.584000E+009	3.584000E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	1	1 1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	1	1 1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	L	1	1 0	1	0	0	0

B1 LP-LVL 2900Fb-2.0E 5.250" X 16.000" - PASSED Level

Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb:	MR Load Case	MR Dead	MR Live	Uplift
1	425	5.5	5.5	6015.3	D+L	L	1815.3	4200	0
2	425	5.5	5.5	6015.3	D+L	L	1815.3	4200	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	L	1	0.941	0.941	27803	9-7-6	51954	51954	0.5351

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res... Fac...	Max Shear	Vr	Ratio
1	Spn 1	2	Yes	D+L	L	1	1	4970	15960	0.3114

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

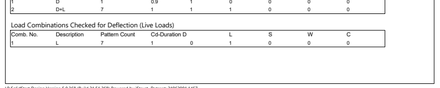
Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L	0.5544	Spn 1	9-7-7	19-2-12	240	416.2	0.5767

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L	0.3871	Spn 1	9-7-7	19-2-12	480	596.1	0.8053

B2 LP-LVL 2900Fb-2.0E 1.500" X 11.250"-Ply - PASSED

Level: Level



User Inputs

Design Method:	ASD	Load Sharing:	Yes	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	20-0-0
Type:	Girder	Moisture Condition:	Dry	Bearings	
Application:	Floor	Temperature:	Temp <= 100°F	Brg 1:	3.5" SPF
Plies:	4	Decking:	Not Checked	Brg 2:	3.5" SPF
Material Type:	LVL	Defl. LL Span:	L / 480		
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240		
Depth:	11.25	Defl. TL Span:	L / 240		
Width:	1.5	Defl. TL Cant:	L / 120		

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.375342277548014	1	1	1.04	1	Yes	1	1

Ei (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
1.423628E+009	1.423628E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	1	1 1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	1	1 1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	L	1	1 0	1	0	0	0

B2 LP-LVL 2900Fb-2.0E 1.500" X 11.250"-Ply - PASSED

Level: Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb:	MR Load Case	MR Dead	MR Live	Uplift
1	425	3.5	3.5	2443.1	D+L	L	943.1	1500	0
2	425	3.5	3.5	2443.1	D+L	L	943.1	1500	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	L	1	0.365	0.379	11662	9-9-4	32038	7702	0.364

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res... Fac...	Max Shear	Vr	Ratio
1	Spn 1	1	Yes	D+L	L	1	1	2161	12825	0.1685

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L	0.5829	Spn 1	9-9-5	19-6-8	240	402.3	0.5866

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L	0.3579	Spn 1	9-9-5	19-6-8	480	655.2	0.7326

B3 LP-LVL 2900Fb-2.0E 1.500" X 11.250"-Ply - PASSED

Level: Level

User Inputs

Design Method:	ASD	Load Sharing:	Yes	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	6-8-0
Type:	Girder	Moisture Condition:	Dry	Span 2:	6-8-0
Application:	Floor	Temperature:	Temp <= 100°F	Span 3:	6-8-0
Plies:	4	Decking:	Not Checked	Bearings	
Material Type:	LVL	Defl. LL Span:	L / 480	Brg 1:	3.5" SPF
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240	Brg 2:	3.5" SPF
Depth:	11.25	Defl. TL Span:	L / 240	Brg 3:	3.5" SPF
Width:	1.5	Defl. TL Cant:	L / 120	Brg 4:	3.5" SPF

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.246143364217874	1	1	1.04	1	Yes	1	1

Ei (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
1.423628E+009	1.423628E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	7	1 1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	D	1	0.9 1	0	0	0	0
2	D+L	7	1 1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration D	L	S	W	C
1	L	7	1 0	1	0	0	0

B3 LP-LVL 2900Fb-2.0E 1.500" X 11.250"-Ply - PASSED

Level: Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb:	MR Load Case	MR Dead	MR Live	Uplift
1	425	3.5	3.5	1539.8	D+L	L_L	443.3	1096.5	0
2	425	3.5	3.5	6392.6	D+L	LL_	1149.8	5242.8	0
3	425	3.5	3.5	6392.6	D+L	_LL	1149.8	5242.8	0
4	425	3.5	3.5	1539.8	D+L	L_L	443.3	1096.5	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	LL_	1	0.237	0.246	-2421	6-5-4	32038	7702	0.0756
2	Spn 2	D+L	LL_	1	0.237	0.246	-2423	0-0-0	32038	7702	0.0756
3	Spn 3	D+L	_LL	1	0.237	0.246	-2423	0-0-0	32038	7702	0.0756

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res... Fac...	Max Shear	Vr	Ratio
1	Spn 1	2	Yes	D+L	LL_	1	1	1482	12825	0.1156
2	Spn 2	3	No	D+L	_LL	1	1	1343	12825	0.1047
3	Spn 3	3	No	D+L	_LL	1	1	1482	12825	0.1156

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L_L	0.0141	Spn 3	3-4-4	6-5-4	240	5461.1	0.0439

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L_L	0.0105	Spn 3	3-3-12	6-5-4	480	7387.5	0.065

BEAM DATA

SCALE:GRAPHIC

WHITE HOUSE
BUILDING ASSOCIATES LLC
WHITE HOUSE BUILDING ASSOCIATES LLC
WWW.WHITEHOUSEBUILDINGASSOCIATES.COM
WHITEHOUSEBLDGASSOC@GMAIL.COM
P.O. BOX 1682 LELAND, NORTH CAROLINA
910-978-5195

DRAWN BY: LRW
DATE: 23-Nov-21
REVISED:
SCALE: AS NOTED

BEAM DATA

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BUCUR RESIDENCE
1185 JOE COLLINS ROAD
LILLINGTON, NORTH CAROLINA

B1

1 OF 1

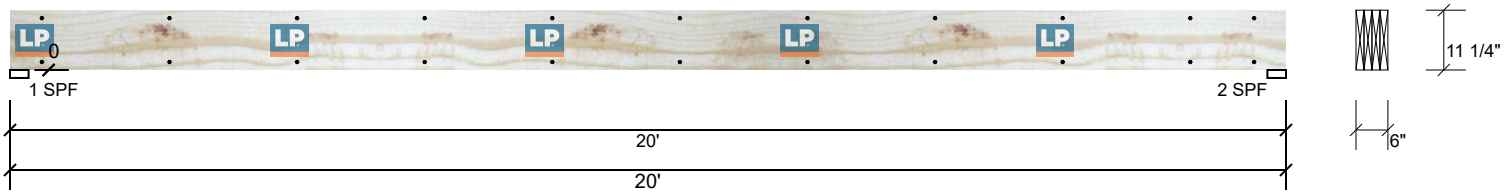
BUILDING SOLUTIONS

Client:
Project:
Address:

Date: 11/23/2021
Input by:
Job Name: Bucur Residence Beams
Project #:

B2 LP-LVL 2900Fb-2.0E 1.500" X 11.250" 4-Ply - PASSED

Level: Level



User Inputs

Design Method:	ASD	Load Sharing:	Yes	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	20-0-0
Type:	Girder	Moisture Condition:	Dry	Bearings	
Application:	Floor	Temperature:	Temp <= 100°F	Brg 1:	3.5" SPF
Plies:	4	Decking:	Not Checked	Brg 2:	3.5" SPF
Material Type:	LVL	Defl. LL Span:	L / 480		
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240		
Depth:	11.25	Defl. TL Span:	L / 240		
Width:	1.5	Defl. TL Cant:	L / 120		

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.379342277548014	1	1	1.04	1	Yes	1	1

EI (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
1.423828E+009	1.423828E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	1	1	1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	1	1	1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	L	1	1	0	1	0	0	0

B2 LP-LVL 2900Fb-2.0E 1.500" X 11.250" 4-Ply - PASSED

Level: Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb.	MR Load Case	MR Dead	MR Live	Uplift
1	425	3.5	3.5	2443.1	D+L	L	943.1	1500	0
2	425	3.5	3.5	2443.1	D+L	L	943.1	1500	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	L	1	0.365	0.379	11662	9-9-4	32038	7702	0.364

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res… Fac…	Max Shear	Vr	Ratio
1	Spn 1	1	Yes	D+L	L	1	1	2161	12825	0.1685

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L	0.5829	Spn 1	9-9-5	19-6-8	240	402.3	0.5966

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L	0.3579	Spn 1	9-9-5	19-6-8	480	655.2	0.7326

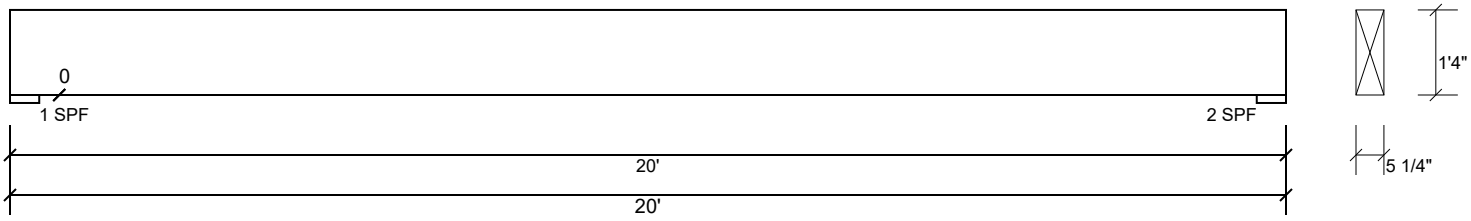
LP BUILDING SOLUTIONS

Client:
Project:
Address:

Date: 11/23/2021
Input by:
Job Name:
Project #:

B1 LP-LVL 2900Fb-2.0E 5.250" X 16.000" - PASSED

Level: Level



User Inputs

Design Method:	ASD	Load Sharing:	No	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	20-0-0
Type:	Girder	Moisture Condition:	Dry	Bearings	
Application:	Floor	Temperature:	Temp <= 100°F	Brg 1:	5.5" SPF
Plies:	1	Decking:	Not Checked	Brg 2:	5.5" SPF
Material Type:	LVL	Defl. LL Span:	L / 480		
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240		
Depth:	16	Defl. TL Span:	L / 240		
Width:	5.25	Defl. TL Cant:	L / 120		

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.94127771153381	1	1	1	1	No	1	1

EI (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
3.584000E+009	3.584000E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	1	1	1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	1	1	1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	L	1	1	0	1	0	0	0

B1 LP-LVL 2900Fb-2.0E 5.250" X 16.000" - PASSED

Level: Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb.	MR Load Case	MR Dead	MR Live	Uplift
1	425	5.5	5.5	6015.3	D+L	L	1815.3	4200	0
2	425	5.5	5.5	6015.3	D+L	L	1815.3	4200	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	L	1	0.941	0.941	27803	9-7-6	51954	51954	0.5351

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res… Fac…	Max Shear	Vr	Ratio
1	Spn 1	2	Yes	D+L	L	1	1	4970	15960	0.3114

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L	0.5544	Spn 1	9-7-7	19-2-12	240	416.2	0.5767

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L	0.3871	Spn 1	9-7-7	19-2-12	480	596.1	0.8053

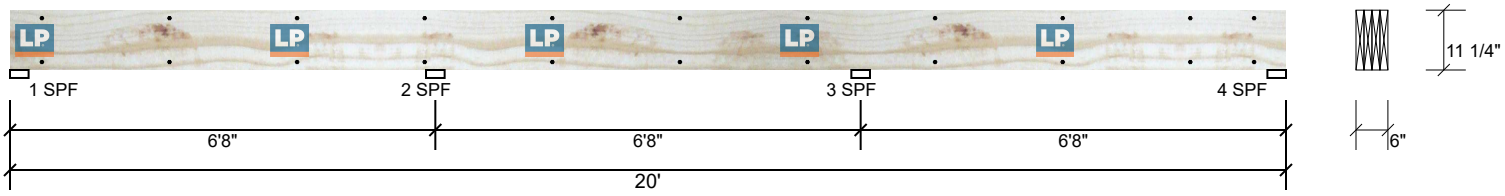
BUILDING SOLUTIONS

Client:
Project:
Address:

Date: 11/23/2021
Input by:
Job Name: Bucur Residence Beams
Project #:

B3 LP-LVL 2900Fb-2.0E 1.500" X 11.250" 4-Ply - PASSED

Level: Level



User Inputs

Design Method:	ASD	Load Sharing:	Yes	Spans	
Building Code:	IBC/IRC 2015	Importance:	Normal - II	Span 1:	6-8-0
Type:	Girder	Moisture Condition:	Dry	Span 2:	6-8-0
Application:	Floor	Temperature:	Temp <= 100°F	Span 3:	6-8-0
Plies:	4	Decking:	Not Checked	Bearings	
Material Type:	LVL	Defl. LL Span:	L / 480	Brg 1:	3.5" SPF
Material Name:	LP LVL 2900F-2.0E	Defl. LL Cant:	L / 240	Brg 2:	3.5" SPF
Depth:	11.25	Defl. TL Span:	L / 240	Brg 3:	3.5" SPF
Width:	1.5	Defl. TL Cant:	L / 120	Brg 4:	3.5" SPF

Analysis Details

Material Properties

Name	E	Fb	Fcp	Fv	G	Density
LP LVL 2900F-2.0E	2E6	2900	750	285	125000	41.2

Resistance Factors

Moment Factor	Shear Factor	Comp Perp Factor	Cr-Bending	Cr-Shear	Load Sharing	Ct	Ct (E)
0.246143364217874	1	1	1.04	1	Yes	1	1

EI (including Ct (E))

Bare EI	Composite EI	Ct (E) (temp. factor for E)
1.423828E+009	1.423828E+009	1

Load Combinations Checked for Strength (Factors include importance factor)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	7	1	1	1	0	0	0

Load Combinations Checked for Deflection (Total Loads: Dead + Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	D	1	0.9	1	0	0	0	0
2	D+L	7	1	1	1	0	0	0

Load Combinations Checked for Deflection (Live Loads)

Comb. No.	Description	Pattern Count	Cd-Duration	D	L	S	W	C
1	L	7	1	0	1	0	0	0

B3 LP-LVL 2900Fb-2.0E 1.500" X 11.250" 4-Ply - PASSED

Level: Level

Bearing Calculation (MR: Max Reaction)

Brg. No.	Capacity	Input Length	Req'ed Length	Reaction	MR Load Comb.	MR Load Case	MR Dead	MR Live	Uplift
1	425	3.5	3.5	1539.8	D+L	L_L	443.3	1096.5	0
2	425	3.5	3.5	6392.6	D+L	LL_	1149.8	5242.8	0
3	425	3.5	3.5	6392.6	D+L	_LL	1149.8	5242.8	0
4	425	3.5	3.5	1539.8	D+L	L_L	443.3	1096.5	0

Maximum Moment at Each Member

Mem No.	Span No.	Combination	Load Case	Cd	CL	Resist. Factors	Moment	Span-X	Mr	Mr_orig	Ratio
1	Spn 1	D+L	LL_	1	0.237	0.246	-2421	6-5-4	32038	7702	0.0756
2	Spn 2	D+L	LL_	1	0.237	0.246	-2423	0-0-0	32038	7702	0.0756
3	Spn 3	D+L	_LL	1	0.237	0.246	-2423	0-0-0	32038	7702	0.0756

Maximum Shear at Each Member

Mem No.	Span No.	Brg No.	Max	Combination	Load Case	Cd	Res… Fac…	Max Shear	Vr	Ratio
1	Spn 1	2	Yes	D+L	LL_	1	1	1482	12825	0.1156
2	Spn 2	3	No	D+L	_LL	1	1	1343	12825	0.1047
3	Spn 3	3	No	D+L	_LL	1	1	1482	12825	0.1156

Maximum Deflection on Span and Cantilever for Total Load (Dead + Live)

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	D+L	L_L	0.0141	Spn 3	3-4-4	6-5-4	240	5461.1	0.0439

Maximum Deflection on Span and Cantilever for Live Load Only

Def. Span Desc.	Combination	Load Case	Max Deflection	Span ID	Span-X	Span Analog Length	L / Allowable	L / Actual	Ratio
Critical Span	L	L_L	0.0105	Spn 3	3-3-12	6-5-4	480	7387.5	0.065