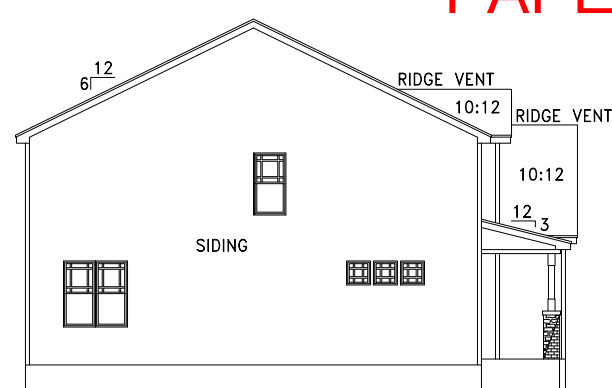
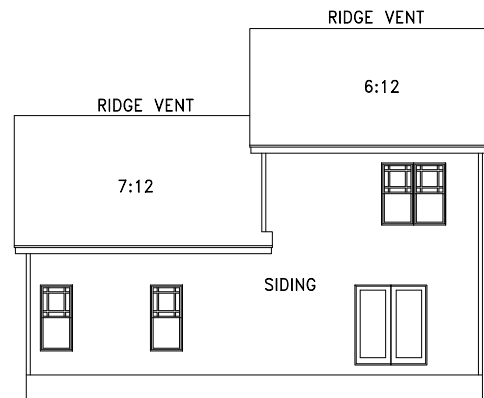




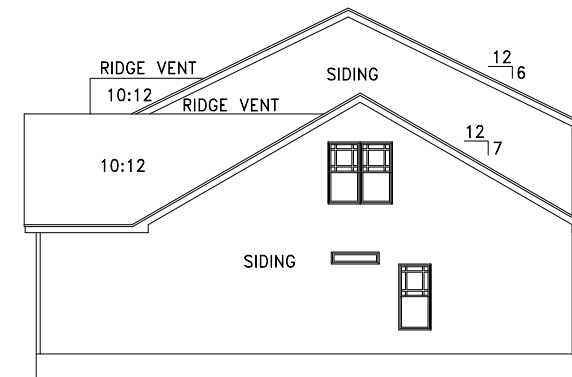
DOUBLE PAPER FRONT ELEVATION "C"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

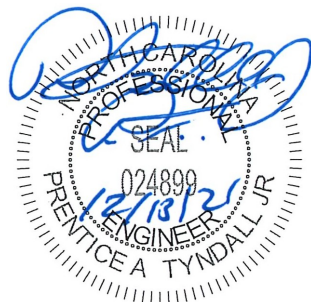
ATTIC SPACE VENTILATION	
REQUIRED	
1701	SQ. FT. OF CLG. / 150 = 11.34 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE INTERNATIONAL RESIDENTIAL BUILDING CODES.	

MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
20'-5"	+ 33'-9"	÷ 2	= 27'-1" Mean Roof Hgt.

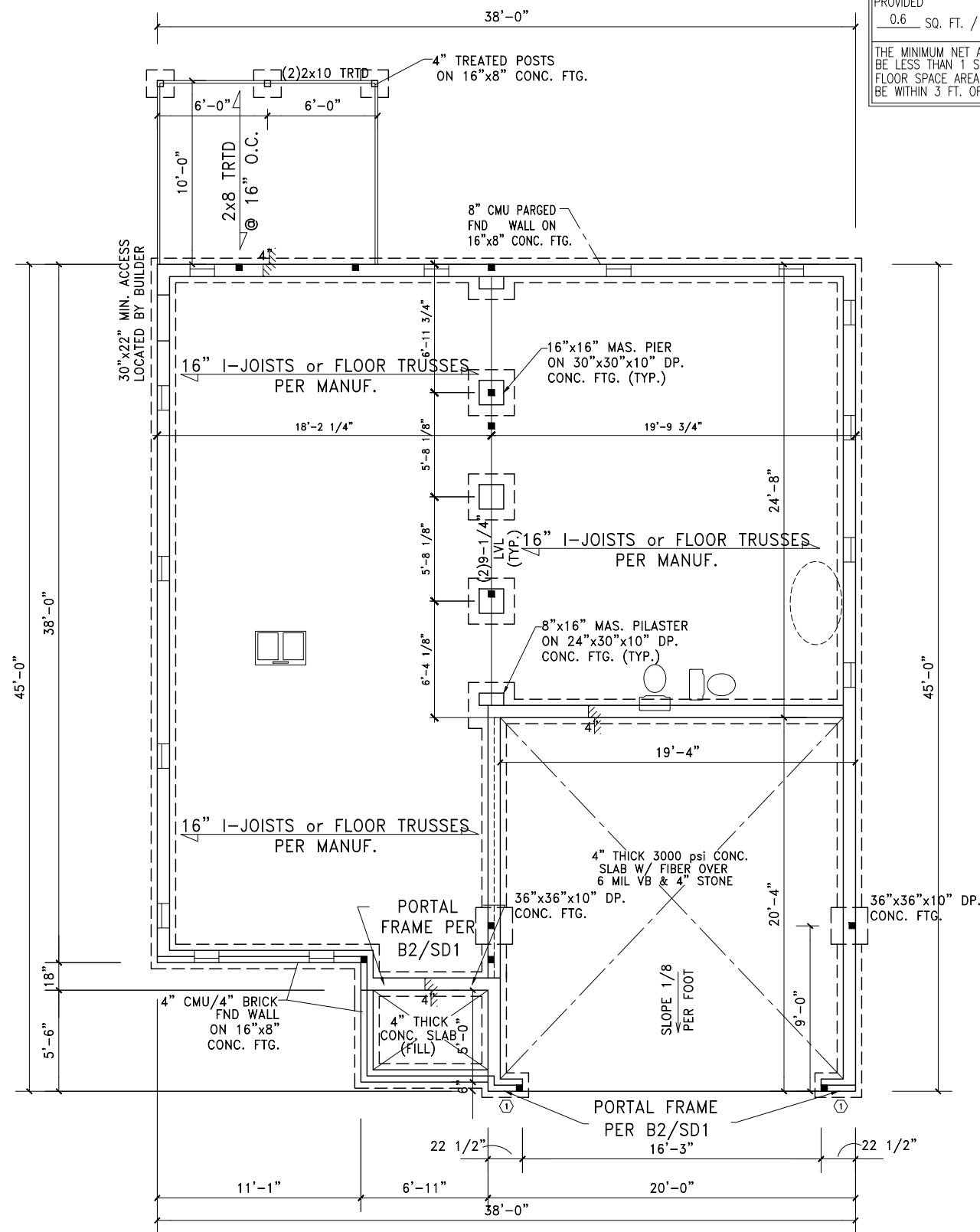
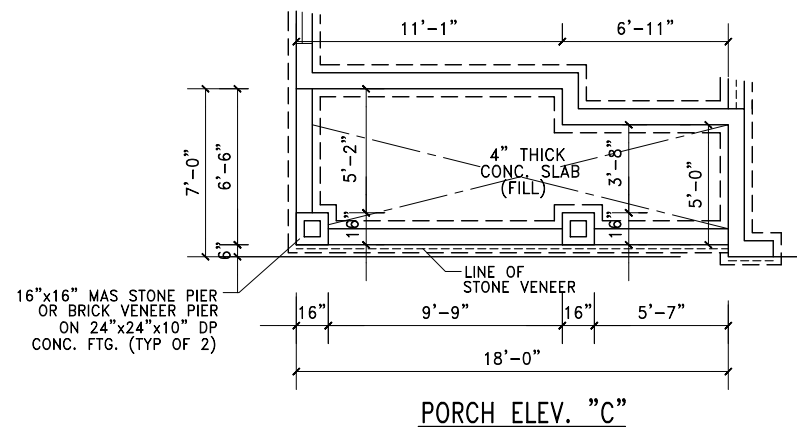
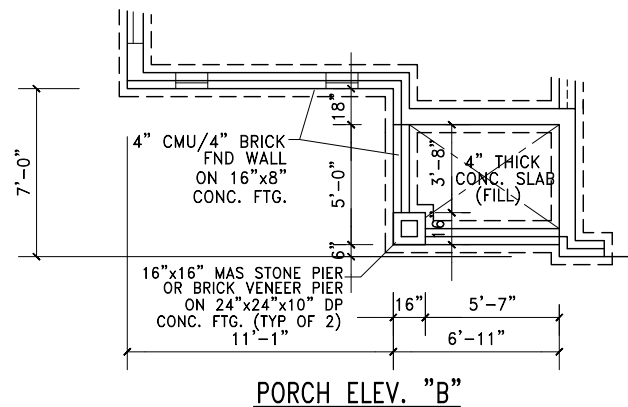
Alton Fields Lot 8 - Verbena Point

SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

REVISIONS:	
1/27/2021	
314 EAST MAIN STREET CLAYTON, NC 27520 info@adamsandhodge.com 919-234-1332 FIRM # C-4187	
ADAMS & HODGE ENGINEERING, P.C.	
Crawlspace Elev. "C"	
Els	
FILE	
DESIGN ADS	
DRAWN ADS	
CHECKED	
DATE 3/7/2016	
SHEET	1C



Project Number: 2101-010054
* Structural analysis based on NC Residential Building Code 2018
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CRAWL SPACE VENTILATION		
REQUIRED	1195	SQ. FT. / 150 = 7.97 SQ. FT. OF VENTILATION
PROVIDED	0.6	SQ. FT. / VENT = 14 VENTS 8.4 (SQ. FT. OF VENTILATION)
THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EA. 150 SQ. FT. OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3 FT. OF EA. CORNER OF SAID BUILDING.		

SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

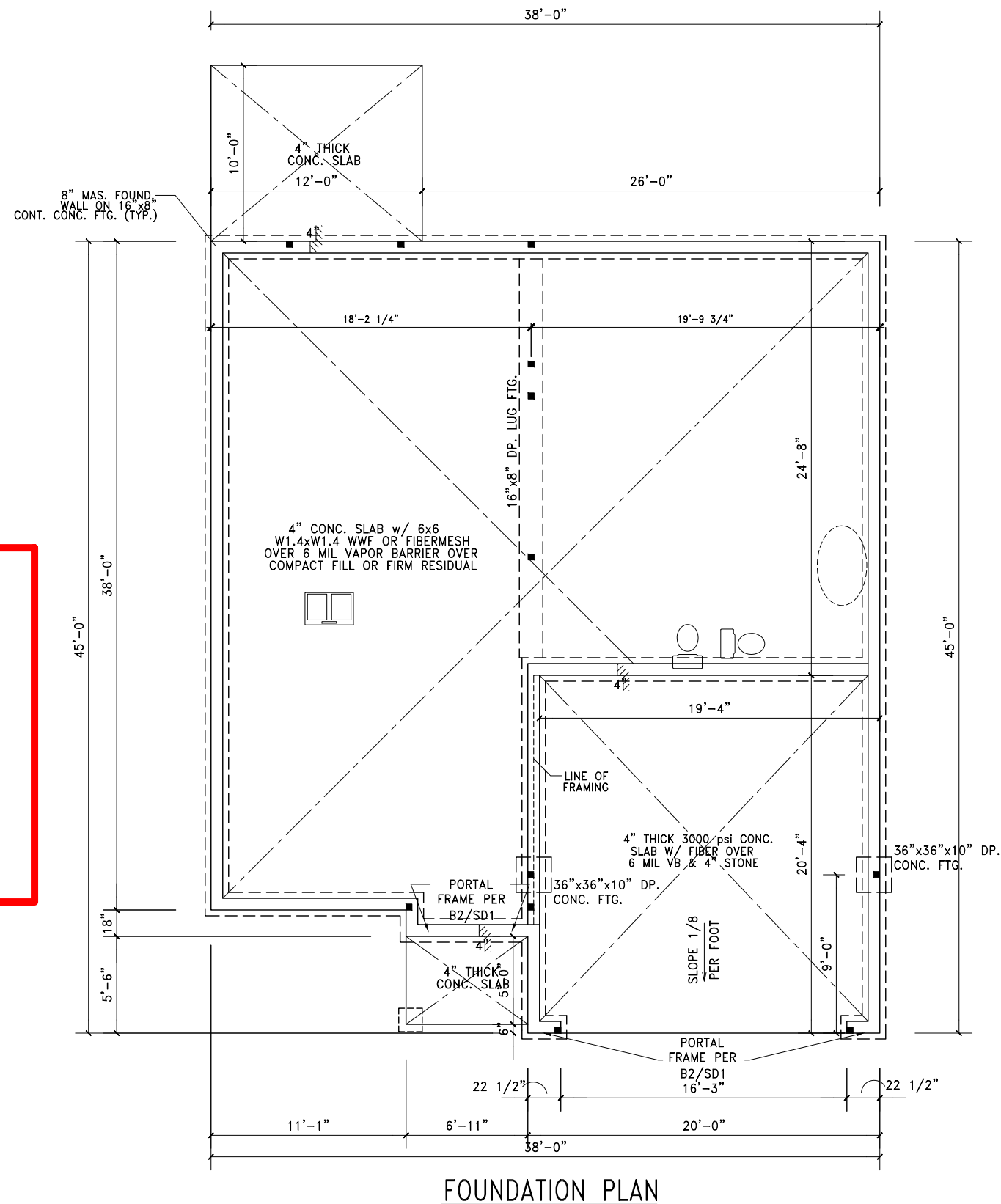
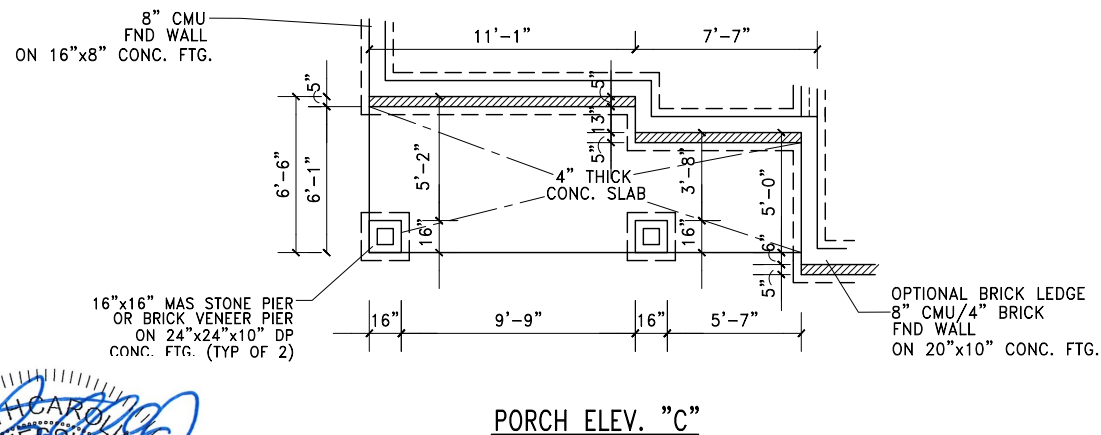
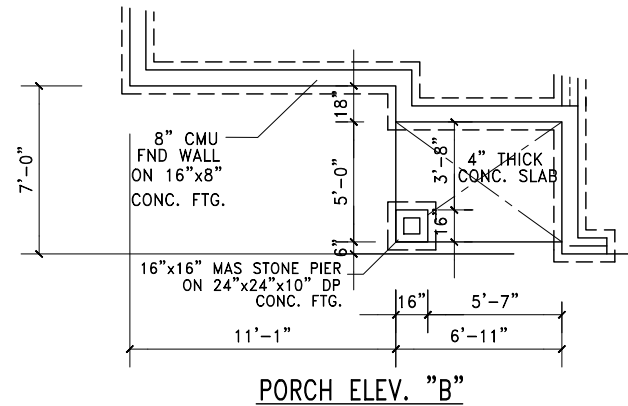
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CLAYTON, NC 27520
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919-234-1332
FIRM # C-4187

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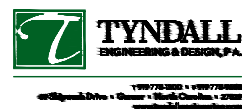
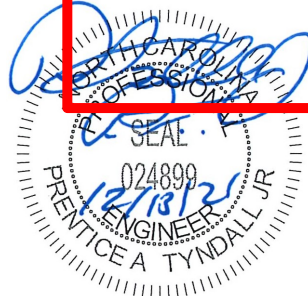


Crawlspace
Foundation

Els	FILE
DESIGN	ADS
DRAWN	ADS
CHECKED	
DATE	3/7/2016
SHEET	2CS

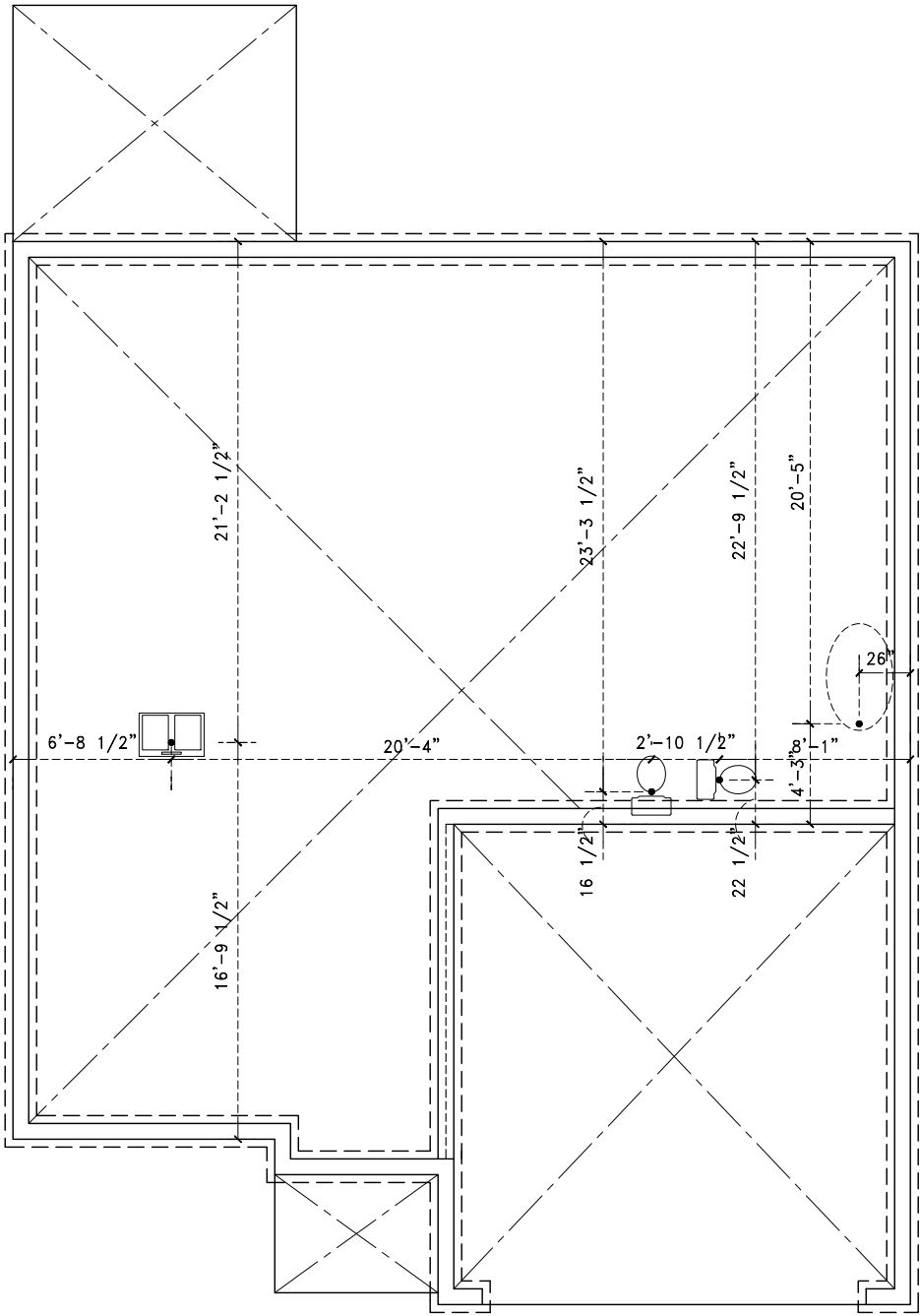


SCALE
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11"x17" = 1/8"=1'-0"



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ADAMS & HODGE ENGINEERING, P.C.	
A H	
Stem Wall	Slab
Foundation	
Els	
FILE	
DESIGN ADS	
DRAWN ADS	
CHECKED	
DATE 3/7/2016	
SHEET	2S



PLUMBING LAYOUT

SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

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Plumbing Layout	
Els	
FILE	
DESIGN	ADS
DRAWN	ADS
CHECKED	
DATE	3/7/2016
SHEET	2A

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO). ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND $F_b = 2600$ PSI, $E = 1.9M$ PSI (I.E. I-LEVEL MICROLAM).
- ALL LVL LUMBER IS TO BE 1.55E ($F_b = 2325$ PSI).
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5'-6" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD NAILED TOGETHER w/ (2) 10d @ 8" O.C. PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6", OTHERWISE REFER TO TABLE R502.5(1).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLE R502.5(1) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO).
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 $F_y = 50$ KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, $f_c = 3000$ PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" @ ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

REQUIRED BRACING 1ST FLOOR

BWL 1 = 13.39 ft CS-WSP
 BWL 2 = 13.39 ft CS-WSP
 BWL A = 14.59 ft CS-WSP
 BWL B = 14.59 ft CS-WSP

PROVIDED BRACING

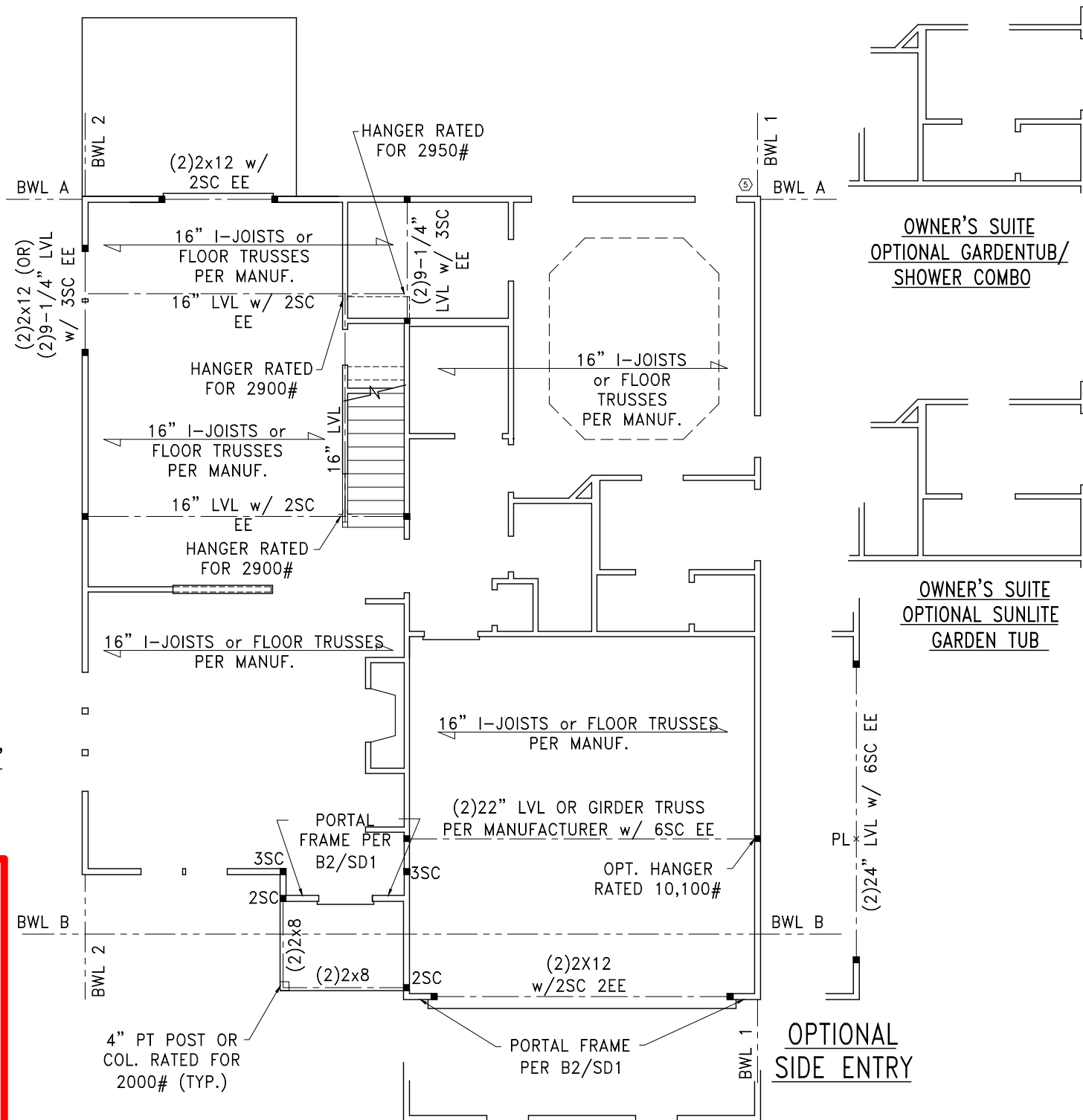
BWL 1 = 25.83 ft
 BWL 2 = 20.58 ft
 BWL A = 26.00 ft
 BWL B = 16.67 ft

4" PT POST OR
 COL. RATED FOR
 2000# (TYP.)

PORCH ELEV. "B"

4" PT POST OR
 COL. RATED FOR
 2000# (TYP.)

PORCH ELEV. "C"



FIRST FLOOR PLAN

SCALE

24"x36" = 1/4"=1'-0"
 11"x17" = 1/8"=1'-0"

REVISIONS:

1/27/2021

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 CLAYTON, NC 27520
 info@adamsandhodge.com
 919-234-1332
 FIRM # C-4187

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 ENGINEERING, P.C.



1st Floor Plan
 Structurals

Els

FILE

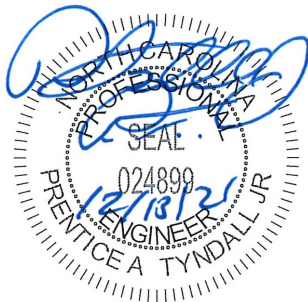
DESIGN
ADSDRAWN
ADS

CHECKED

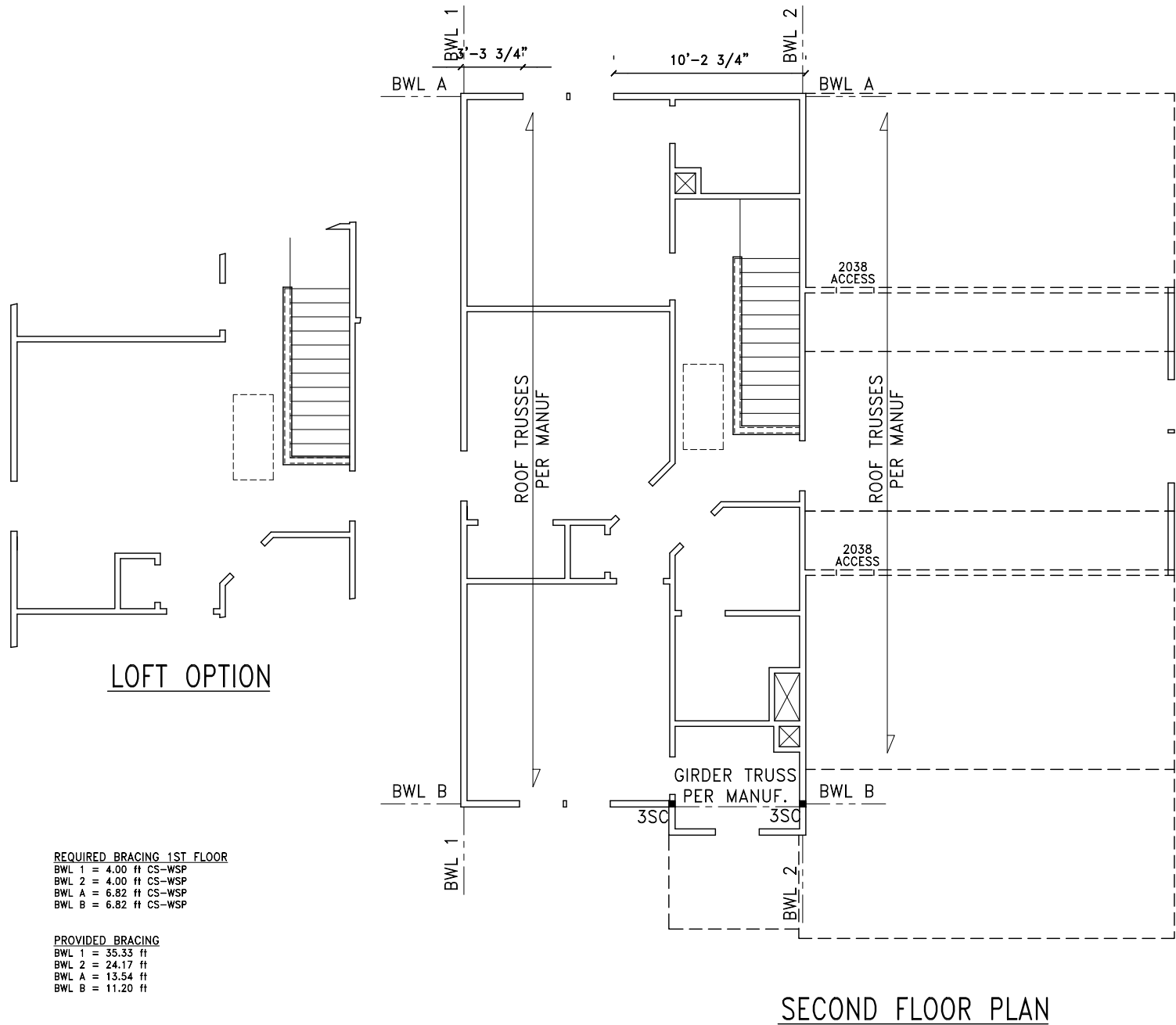
DATE
3/7/2016

SHEET

3



Project Number: 2101-010054
* Structural analysis based on NC Residential Building Code 2018
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SCALE
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11"x17" = 1/8"=1'-0"

REVISIONS:

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2nd Floor
Structurals

EIs

FILE

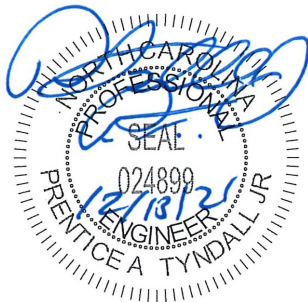
DESIGN
ADS

DRAWN
ADS

CHECKED

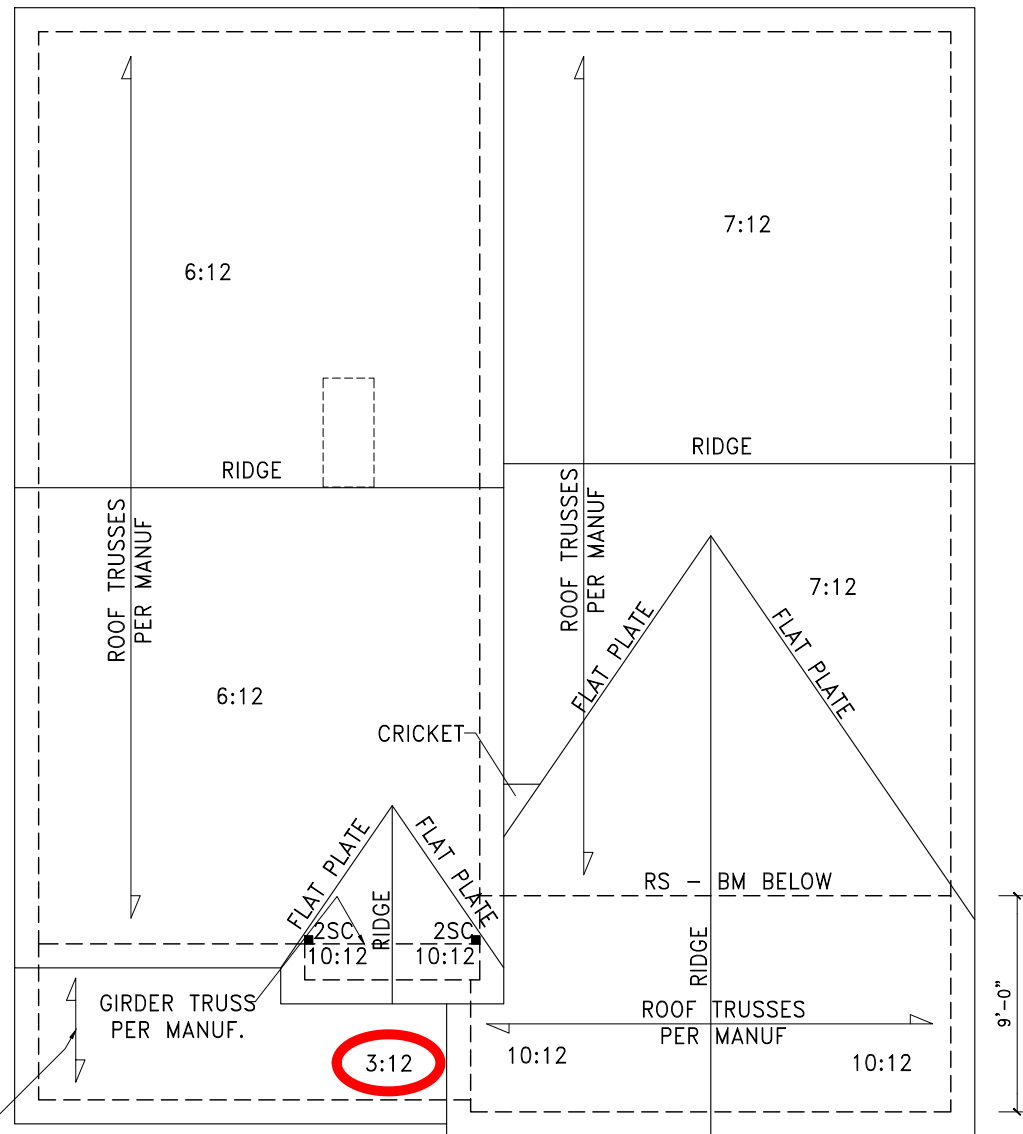
DATE
3/7/2016
SHEET

4



Project Number: 2101-010054
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ROOF TRUSSES PER MANUF. or
STICK FRAMED w/ 2x6 @ 16"
O.C.



ELV. "C"

DOUBLE PAPER

ROOF FRAMING PLAN

SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

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Roof
Framing

Els

FILE

DESIGN
ADS

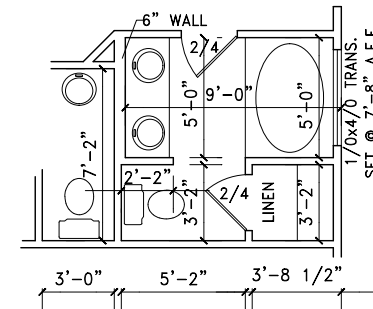
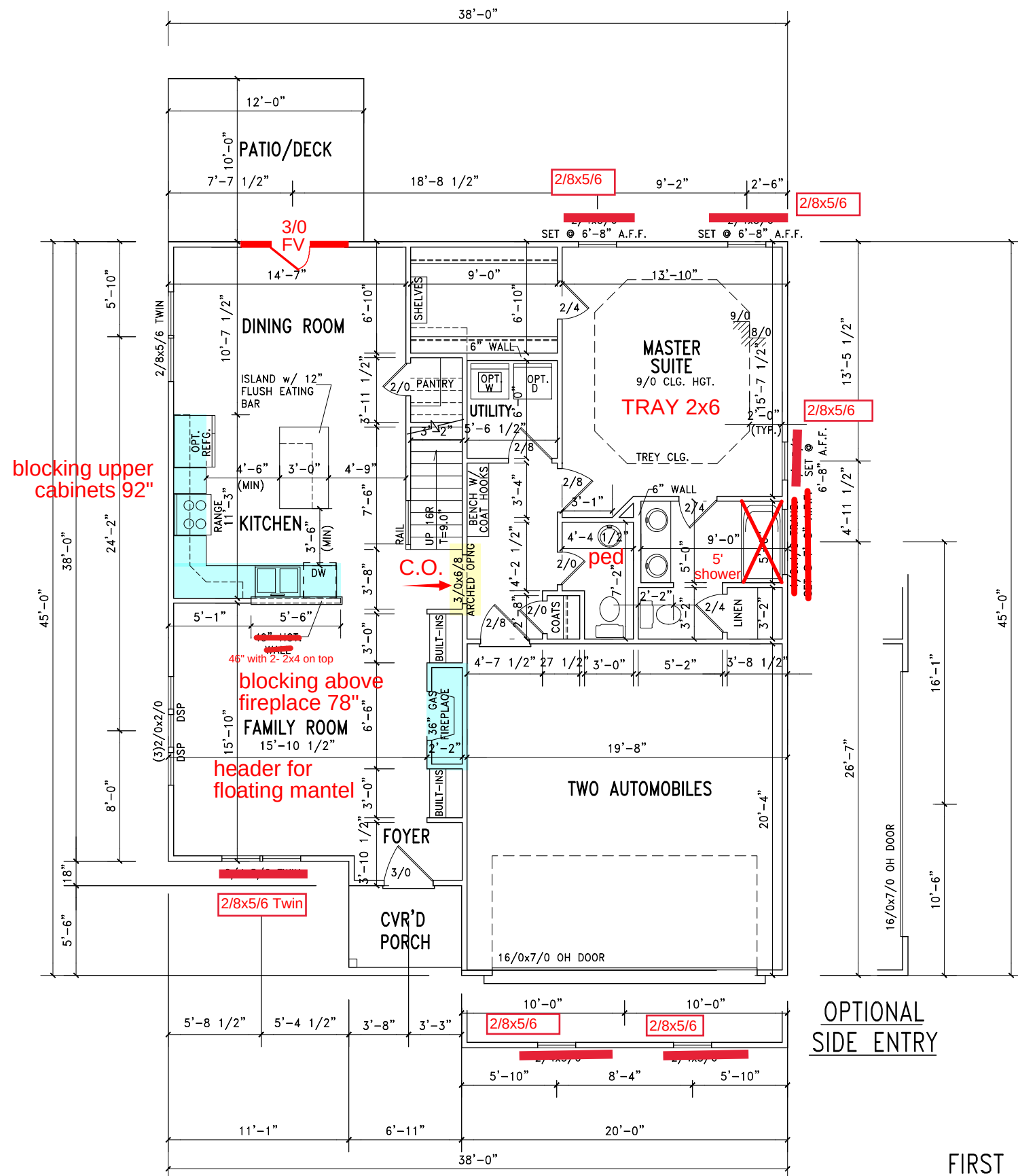
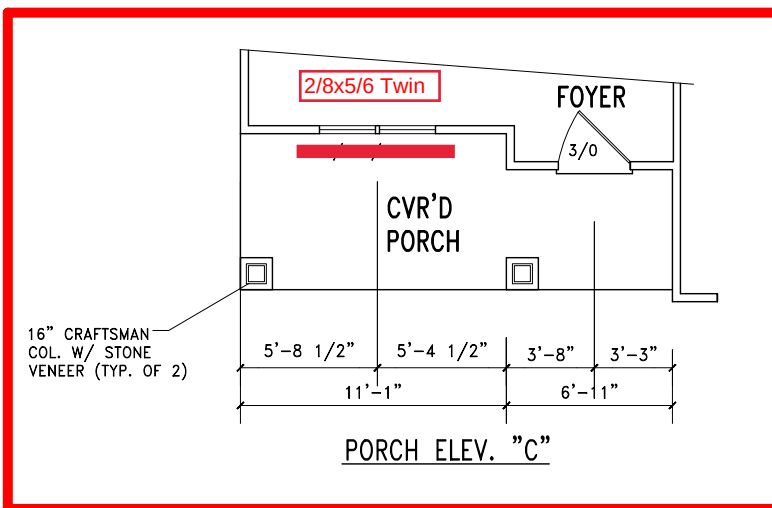
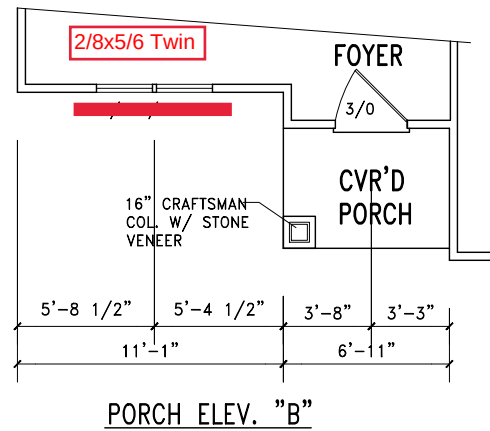
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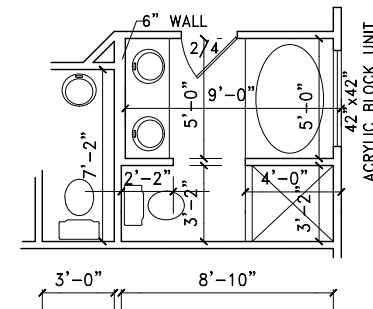
DATE
3/7/2016

SHEET

5C



OWNER'S SUITE
OPTIONAL GARDENTUB/
SHOWER COMBO



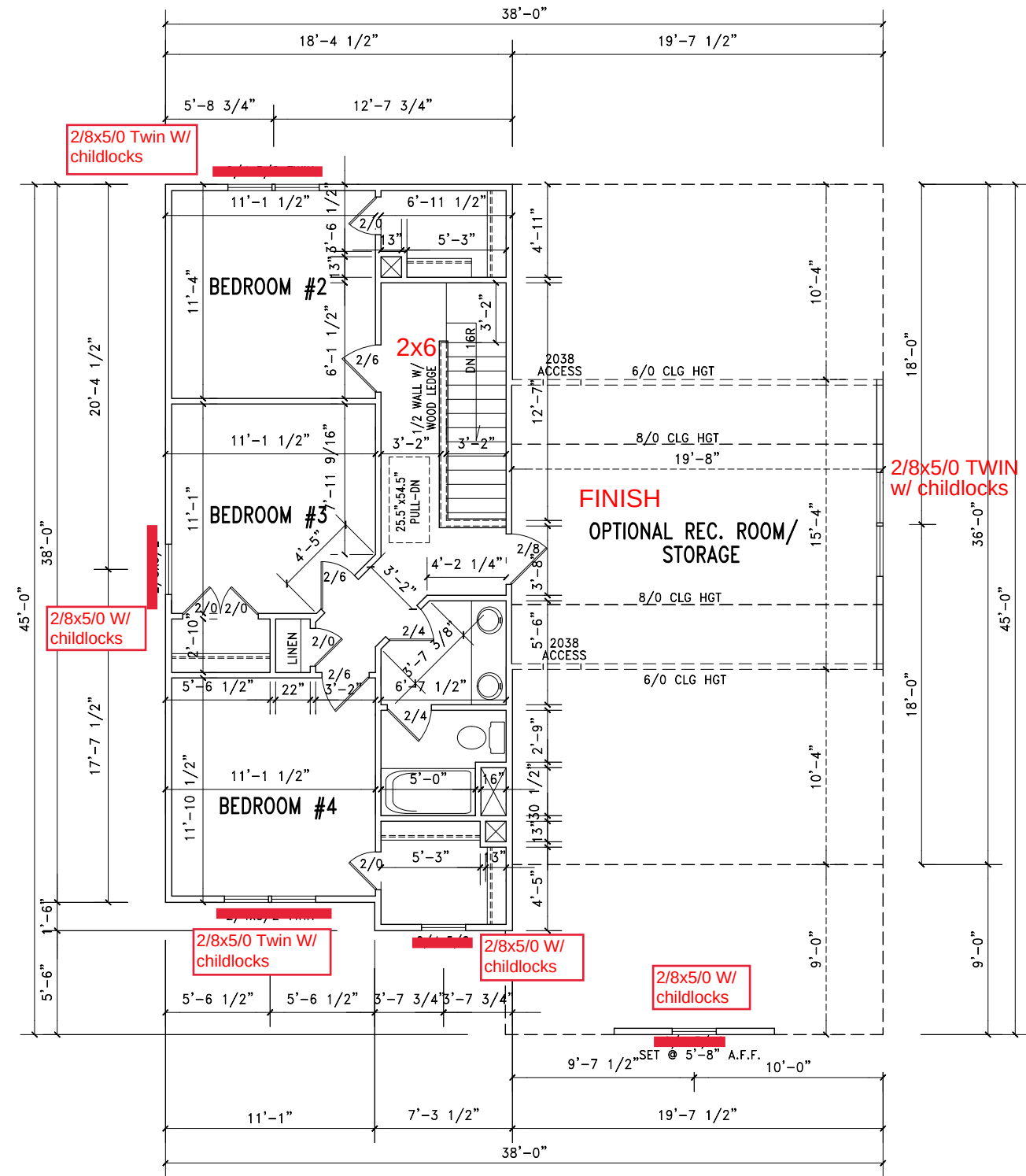
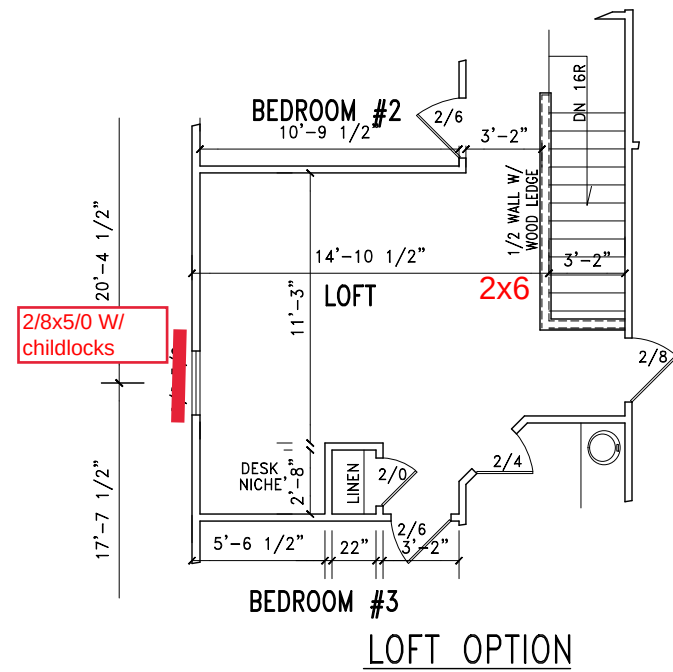
OWNER'S SUITE
OPTIONAL SUNLITE
GARDEN TUB

SQUARE FOOTAGE	
1st FLOOR HTD.	1193
2nd FLOOR HTD.	665
TOTAL HTD.	1858
GARAGE	
OPT. REC. ROOM	300
PATIO/DECK	120
ELV "A" PORCH	35
ELV "B" PORCH	35
ELV "C" PORCH	107

- 1ST FLOOR PLAN NOTES:
- 9'-0" CLG. HGT. (9'-1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR WALLS FIGURED AT 4" NOMINAL WIDTHS UNLESS OTHERWISE NOTED.
 - ALL INTERIOR WALLS FIGURED AT 3 1/2" WIDTHS UNLESS OTHERWISE NOTED.
 - SET WINDOWS AT 7'-8" A.F.F. UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.

SCALE	
24"x36" = 1/4"=1'-0"	
11"x17" = 1/8"=1'-0"	

FIRST FLOOR PLAN



SECOND FLOOR PLAN

SCALE
24"x36" = 1/4"=1'-0"
11"x17" = 1/8"=1'-0"

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919-234-1332
FIRM # C-4187

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2nd Floor
Plan

Els

FILE

DESIGN
ADS

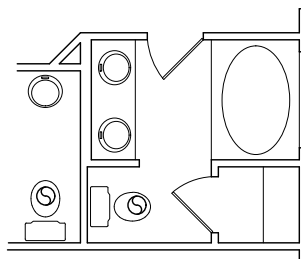
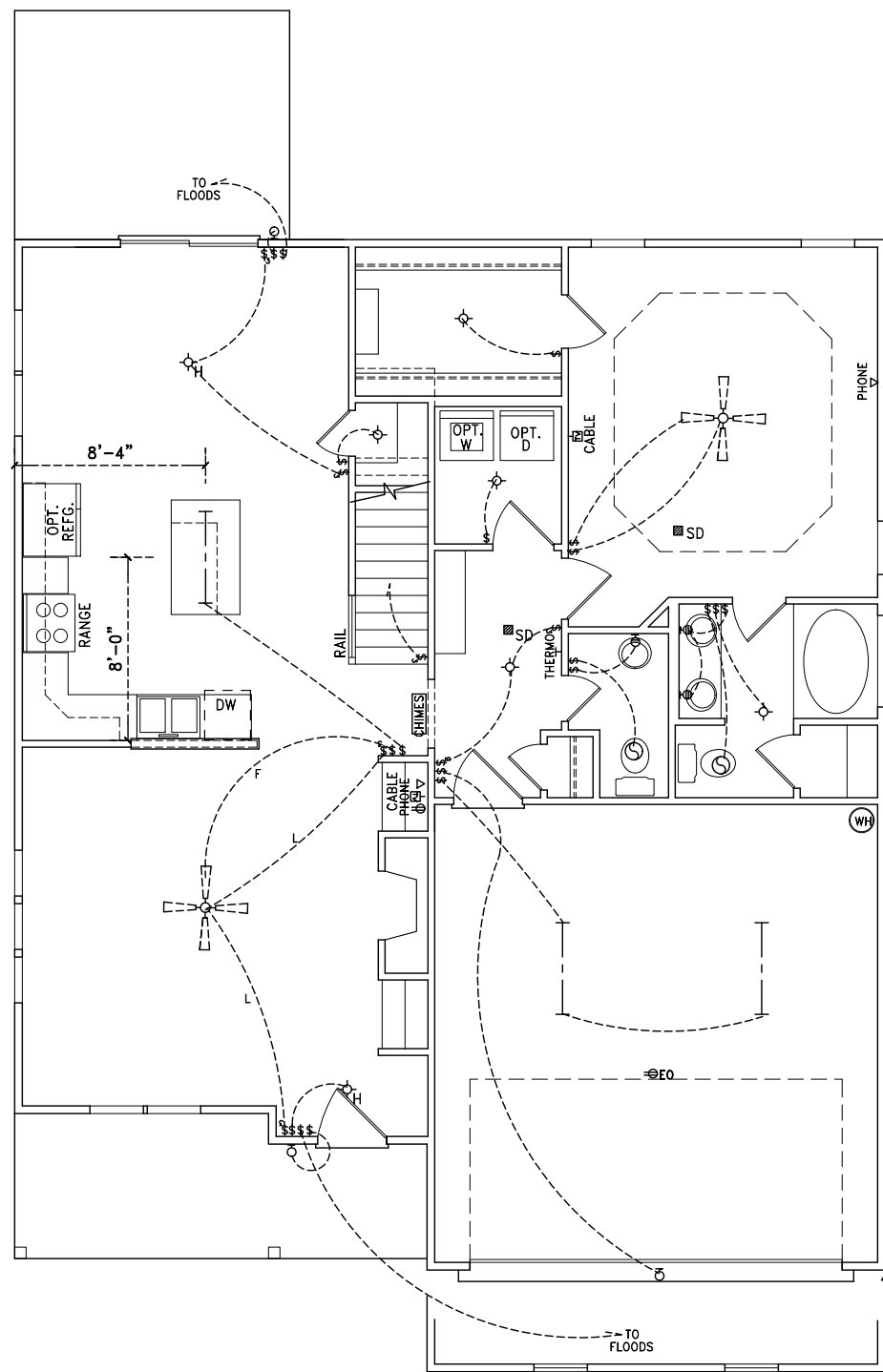
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CHECKED

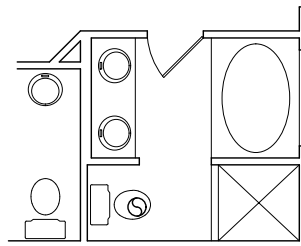
DATE
3/7/2016

SHEET

7

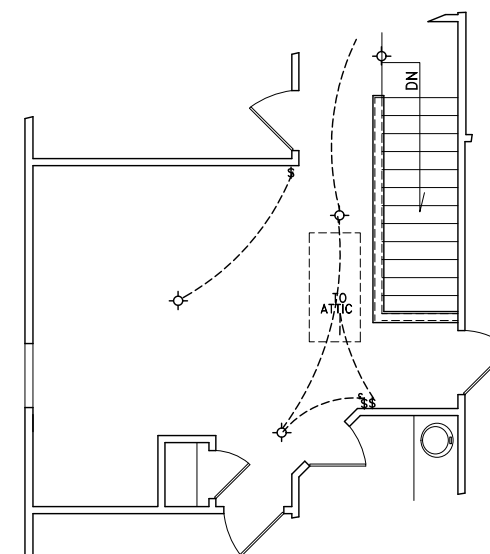
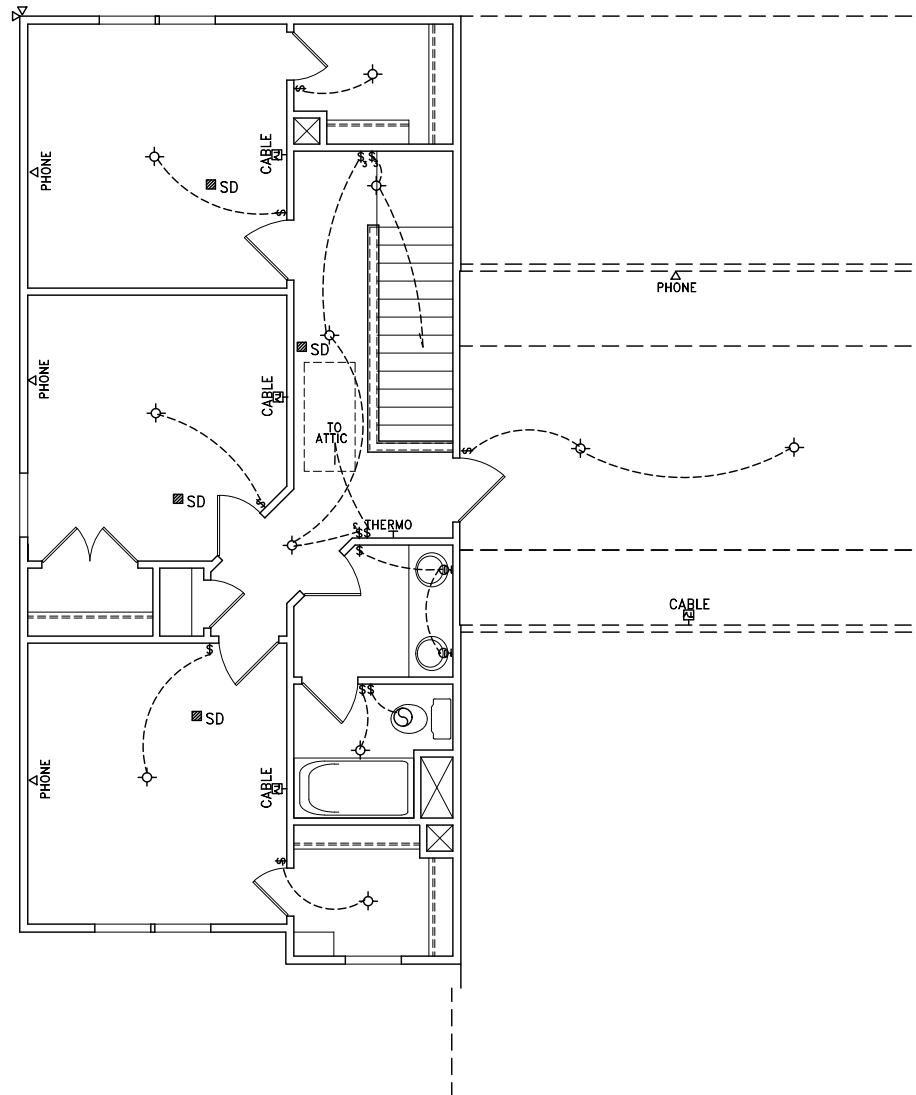


OWNER'S SUITE
OPTIONAL GARDENTUB/
SHOWER COMBO



OWNER'S SUITE
OPTIONAL SUNLITE
GARDEN TUB

OPTIONAL
SIDE ENTRY

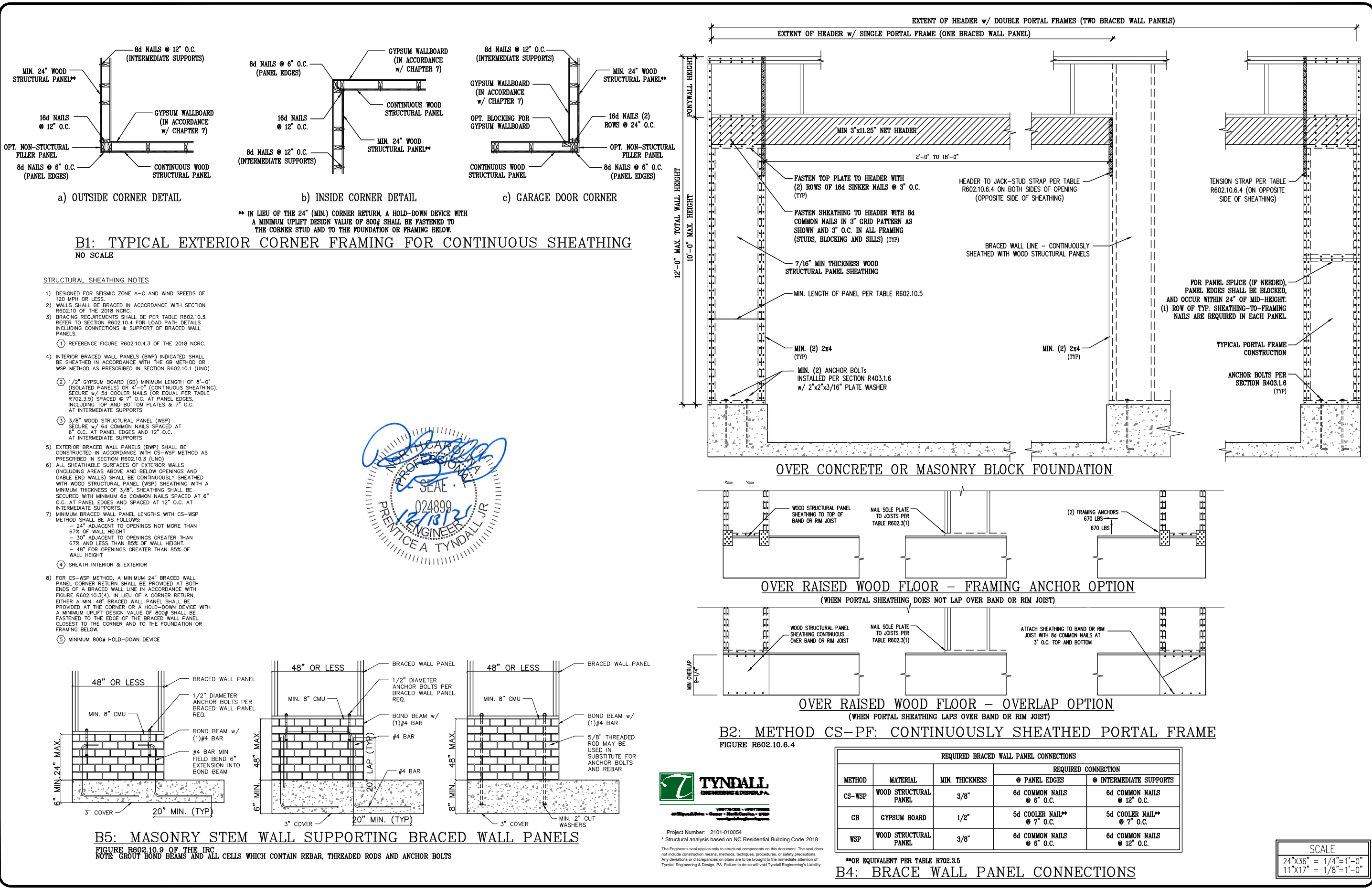


LOFT OPTION

ELECTRICAL SYMBOLS	
	Ceiling mounted light fixture
	Directional ceiling light fixture
	Recessed light fixture
	Wall mounted light fixture
	Exterior flood light
	Track light fixture
	CHIMES
	SINGLE POLE WALL SWITCH
	3-WAY POLE WALL SWITCH
	FOUR-WAY SWITCH
	GROUND FAULT INTERCEPTOR
	WATER PROOF SWITCH
	DIMMER SWITCH
	TIMER SWITCH
	FLUORESCENT LIGHT
	ELECTRICAL OUTLET GARAGE DOOR OPENER
	HANGING LIGHT FIXTURE
	CEILING FAN/LIGHT
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	QUADRUPEX RECEPTACLE OUTLET
	FLOOR OUTLET
	DUPLEX RECEPTACLE OUTLET SPLIT USED
	220 VOLT OUTLET
	WATER PROOF OUTLET
	TELEPHONE OUTLET
	TV OUTLET
	GROUND FAULT INTERCEPTOR
	RECESSED LIGHT FIXTURE ANGLE CUT
	PULL CHAIN LIGHT FIXTURE
	FLUORESCENT LIGHT BOX
	CEILING FAN
	EXHAUST FAN
	SMOKE DETECTOR
	EXHAUST FAN/LIGHT
	SHOWER LIGHT

NOTE:
(1) ALL RECEPTACLE PLACEMENT TO CODE.
(2) PLEASE NOTE RECEPTACLE PLACEMENT PER BUILDER.

SCALE
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11"X17" = 1/8"=1'-0"



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ADAMS & HODGE
ENGINEERING, PC

BRACING
DETAILS

Els

FILE

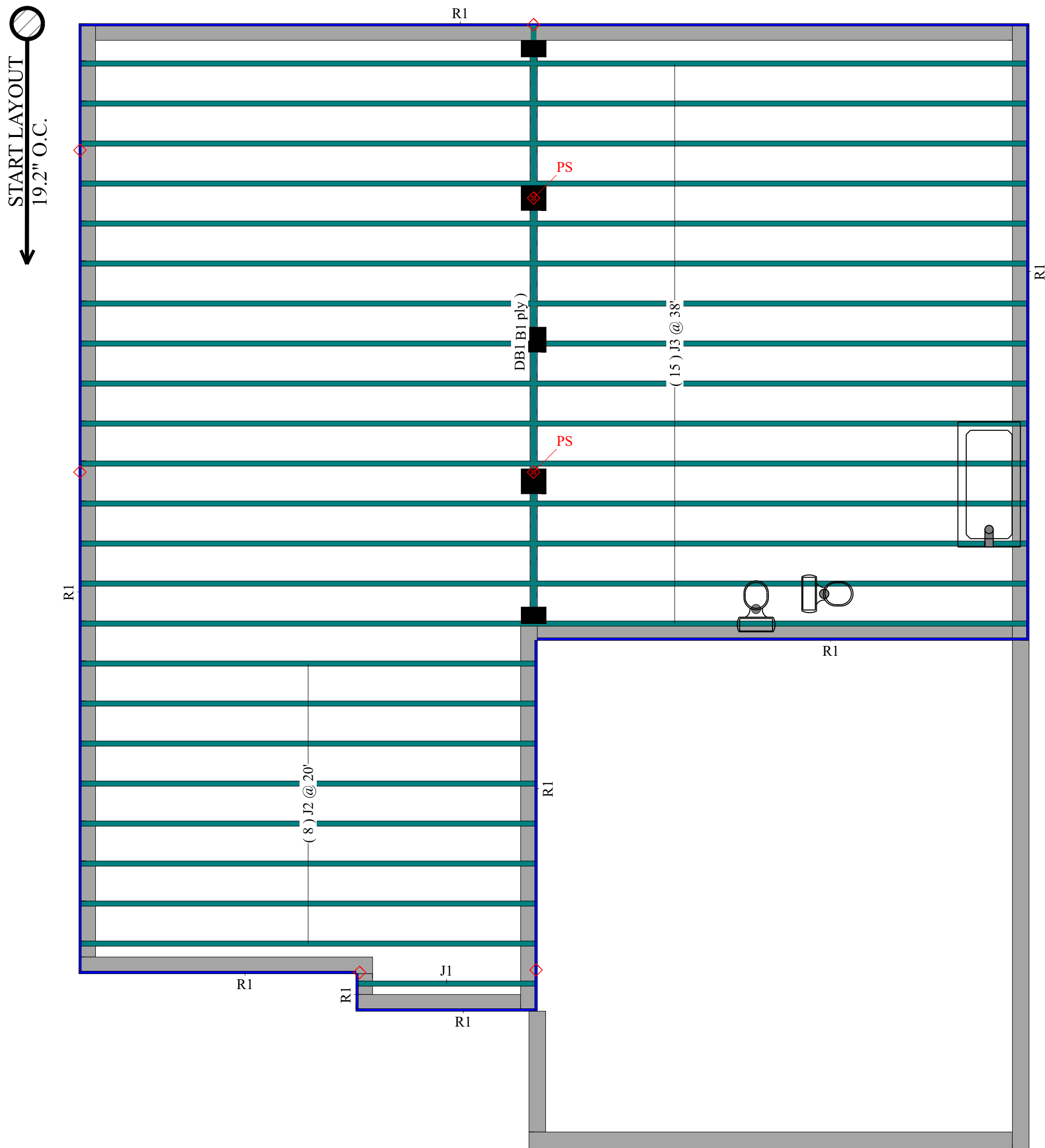
DESIGN
ADS

DRAWN
ADS

CHECKED

DATE
3/7/2016

SHEET
SD1



1ST FLOOR FRAMING

SCALE: 1/4" = 1'

DESIGN BASED ON SEALED STRUCTURALS
BY PRENTICE A TYNDALL JR DATED 3/26/19.

1st Flr							
I Joist (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J3	LPI 32Plus	2.5	16			15	38-0-0
J2	LPI 32Plus	2.5	16			8	20-0-0
J1	LPI 32Plus	2.5	16			1	8-0-0
LVL/LSL (Dropped)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB1	LP-LVL 2900Fb-2.0E	1.75	9.25	1	2	2	24-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 16	1.125	16			10	16-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
B1	LPI 32 Plus	2.5	16	LinFt		Varies	21-0-0

Description	
One27 Homes	
Els Right	
Designer	
Revised	
February 20, 2020	
1st Flr	
Design Method	ASD (USA)
Building Code	IBC/IRC 2015
Floor	
Loads	
Live	40
Dead	10
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	240
TL Cant 2L/	180
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	240
TL Cant 2L/	180
Decking	OSB
Decking	23/32 APA Rated Sturd-1-Floor
Fastener	Nailed & Glued
Legend	
PS	Point Load Support
	Load from Above
	8" Ext Wall
	4" Ext Wall
	3.5" Int Wall
	3.5" Non-Brg Wall
	3.5" Ext Wall
	LP APA Rated OSB 1.125 X 16
	LPI 32Plus 16
	LP-LVL 2900Fb-2.0E 1.75 X 9.25 (Dropped)



Carolina Structural Systems

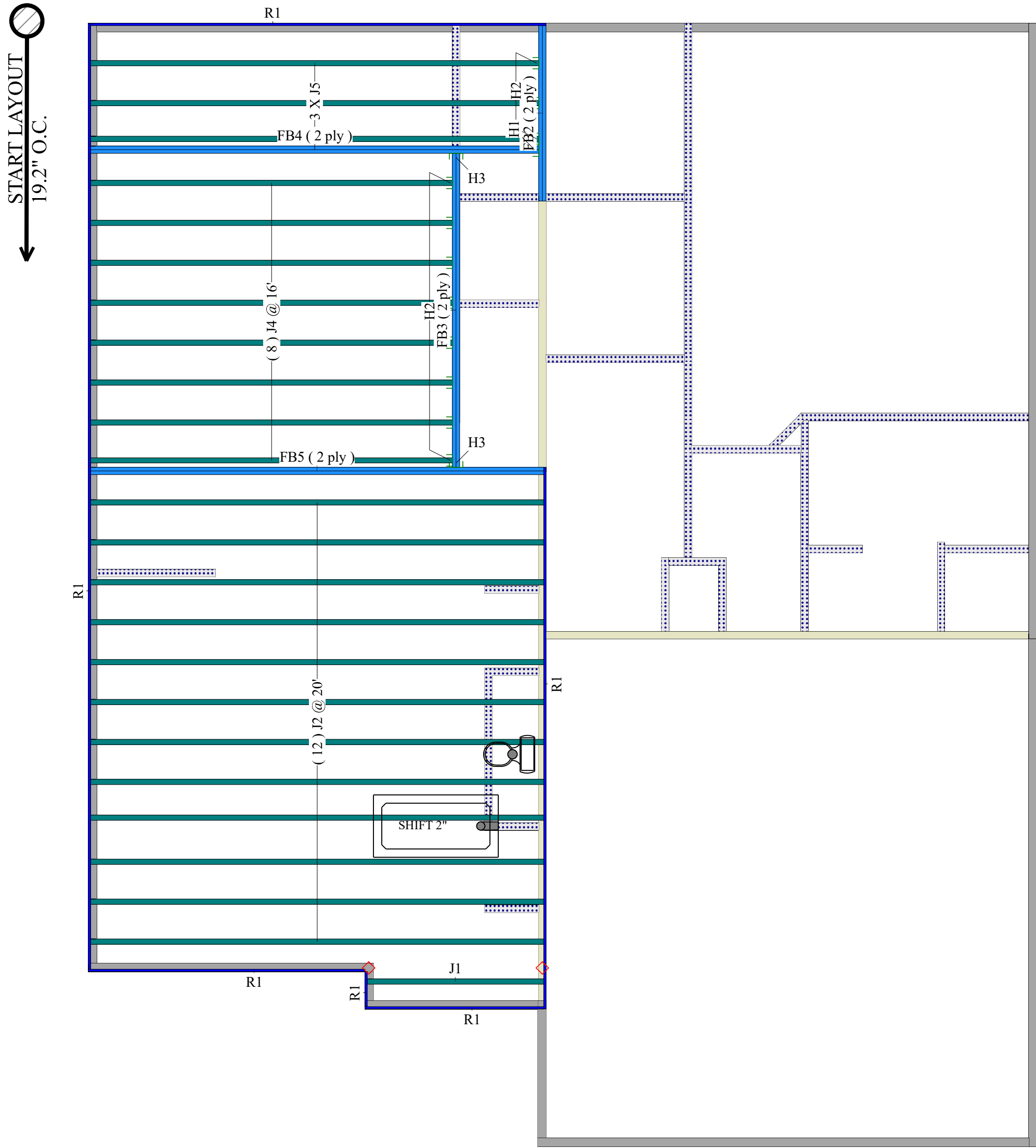
P.O. Box 157, Ether, NC 27247
225 Frame Shop Rd., Star, NC 27356
910-491-9004



Calculated
Structured
Designs



Important Notes WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse. These instructions are offered as a guide to good practice in the handling, storage and installation of LP® SolidStart® I-Joists, LP SolidStart LVL & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the entire building. • This is not intended as a manual for selecting products and assumes that components and details have been specified correctly. • Consult the LP SolidStart I-Joist, LP SolidStart LVL & LP SolidStart LSL brochures or contact your LP SolidStart products distributor for assistance. • All rim joists, blocking, connections and temporary bracing must be installed before erectors are allowed on the structure. • No loads other than the weight of the erectors are to be imposed on the structure before it is permanently sheathed. • After sheathing, do not overload joists with construction materials exceeding design loads. • LP SolidStart I-Joists, LP SolidStart LVL & LP SolidStart LSL beams must be used under dry, covered and well ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 16%.	
Handling & Storage Keep LP SolidStart I-Joists, LP SolidStart LVL & LP SolidStart LSL beams dry. • Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-Joists should be handled vertically and not flatwise. • Keep stored in wrapped and strapped bundles, stacked no more than 10' high. Support and separate bundles with 2 x 4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically. • Product must not be stored in contact with the ground, or have prolonged exposure to the weather. • Use forklifts and cranes carefully to avoid damaging product. • Do not use visually damaged product. • Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.	



2ND FLOOR FRAMING

SCALE: 1/4" = 1'

DESIGN BASED ON SEALED STRUCTURALS
BY PRENTICE A TYNDALL JR DATED 3/26/19.

2nd Flr							
I Joist (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J2	LPI 32Plus	2.5	16			12	20-0-0
J5	LPI 32Plus	2.5	16			3	18-0-0
J4	LPI 32Plus	2.5	16			8	16-0-0
J1	LPI 32Plus	2.5	16			1	8-0-0
LVL/LSL (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB2	LP-LVL 2900Fb-2.0E	1.75	9.25	1	2	2	8-0-0
FB5	LP-LVL 2900Fb-2.0E	1.75	16	1	2	2	20-0-0
FB4	LP-LVL 2900Fb-2.0E	1.75	16	1	2	2	18-0-0
FB3	LP-LVL 2900Fb-2.0E	1.75	16	1	2	2	14-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 16	1.125	16			7	16-0-0
Hanger							
				Beam/Girder		Supported Member	
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	
H1	1	HGUS410			46 16d	16 16d	
H3	2	HGUS414			66 16d	22 16d	
H2	11	IUS2.56/16 (Max)			16 10d	2 10dx1 1/2	

Description	
One27 Homes	
Els Right	
Designer	
Revised	
February 20, 2020	
1st Flr	
Design Method	ASD (USA)
Building Code	IBC/IRC 2015
Floor	
Loads	
Live	40
Dead	10
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	240
TL Cant 2L/	180
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	240
TL Cant 2L/	180
Decking	OSB
Decking	23/32 APA Rated Sturd-I-Floor
Fastener	Nailed & Glued
Legend	
PS	Point Load Support
Load from Above	
8" Ext Wall	
4" Ext Wall	
3.5" Int Wall	
3.5" Non-Brg Wall	
3.5" Ext Wall	
LP APA Rated OSB 1.125 X 16	
LPI 32Plus 16	
LP-LVL 2900Fb-2.0E 1.75 X 9.25 (Dropped)	



Roof Trusses • Floor Trusses • EWP

Carolina Structural Systems

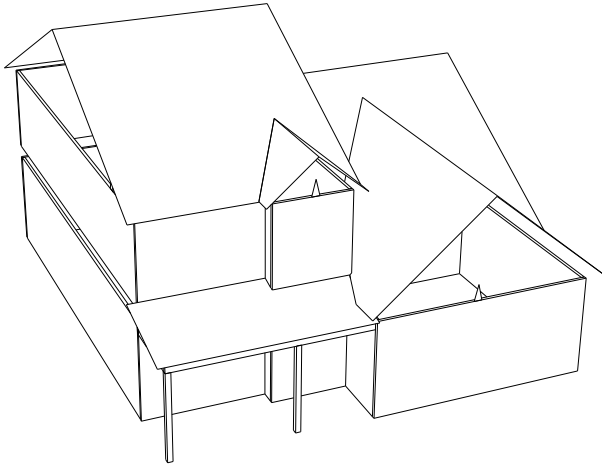
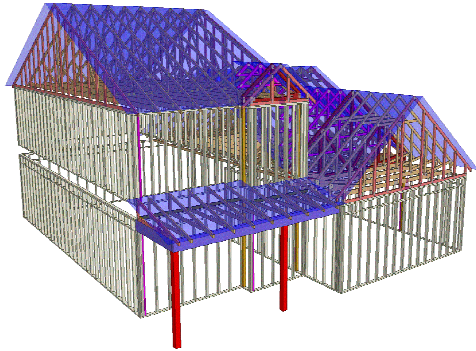
P.O. Box 157, Ether, NC 27247
225 Frame Shop Rd., Star, NC 27356
910-491-9004



Calculated
Structured
Designs



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Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	4

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	9

This project includes Attic Frame trusses. While every effort is made to produce these trusses so that they are uniform, one to another, all trusses should be considered rough framing. It is recommended that all Attic Frame members that will ultimately be used for finish surfaces be straightened, shimmed or furled out by others, at their expense. **Do not cut or alter any truss members or connector plates.**

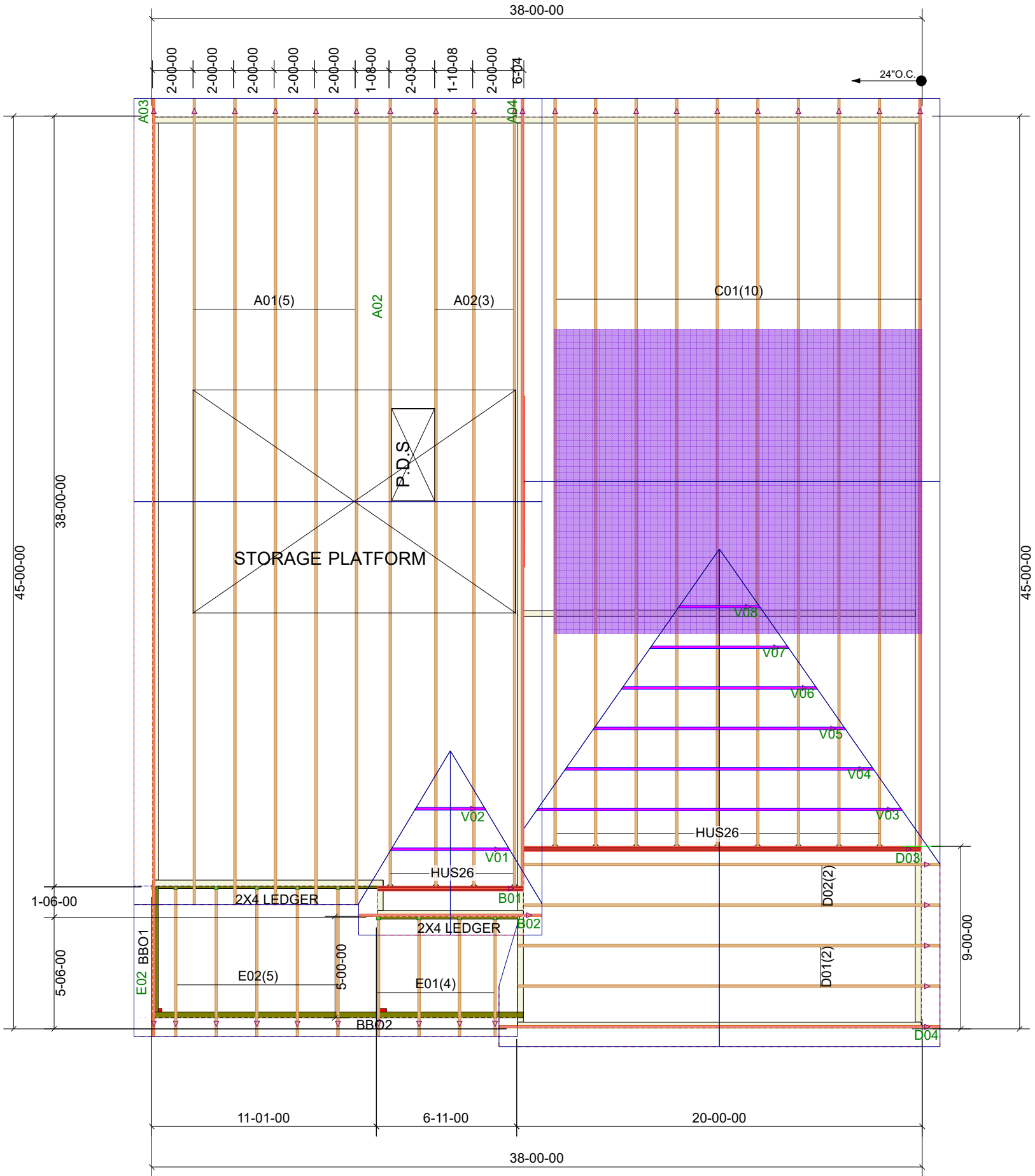
QUALITY AUDITED by

IBC 1704.2
IBC 2303.4

SBCRI

ANSI/TPI 1-2002
ANSI/TPI 1-2007
ANSI/TPI 1-2014

CAROLINA STRUCTURAL SYSTEMS
Ether, NC - Plant W1042
(910) 491-9004



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: APPROVED BY: DATE:

Job: Q2000228

Customer: ONE27 HOMES

Site Address:

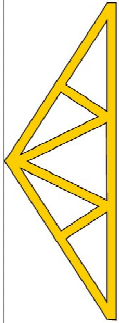
City, ST, ZIP:

Plan: ELs ELEVATION C GARAGE RIGHT

LOT:

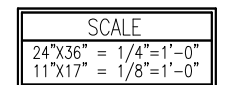
Sales Rep: BEM

Designer: BEM



Carolina Structural Systems
Roof Trusses • Floor Trusses • EWP

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P.O. Box 157, Ether, NC 27247
225 Frame Shop Rd., Star, NC 27356
910-491-9004



REVISIONS:

Screen Porch Detail

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GN	
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WN
ADS
CKED

1/15/2013

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