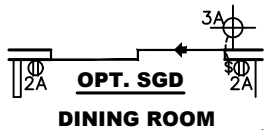
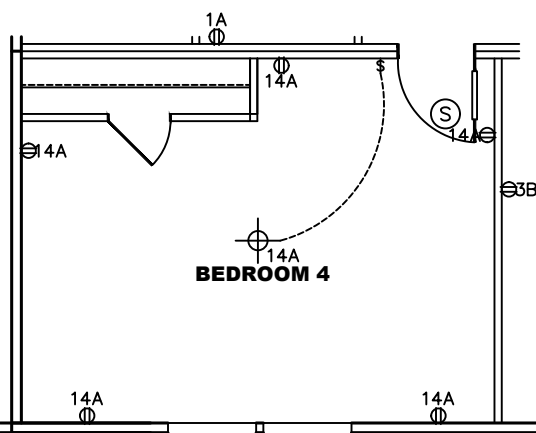
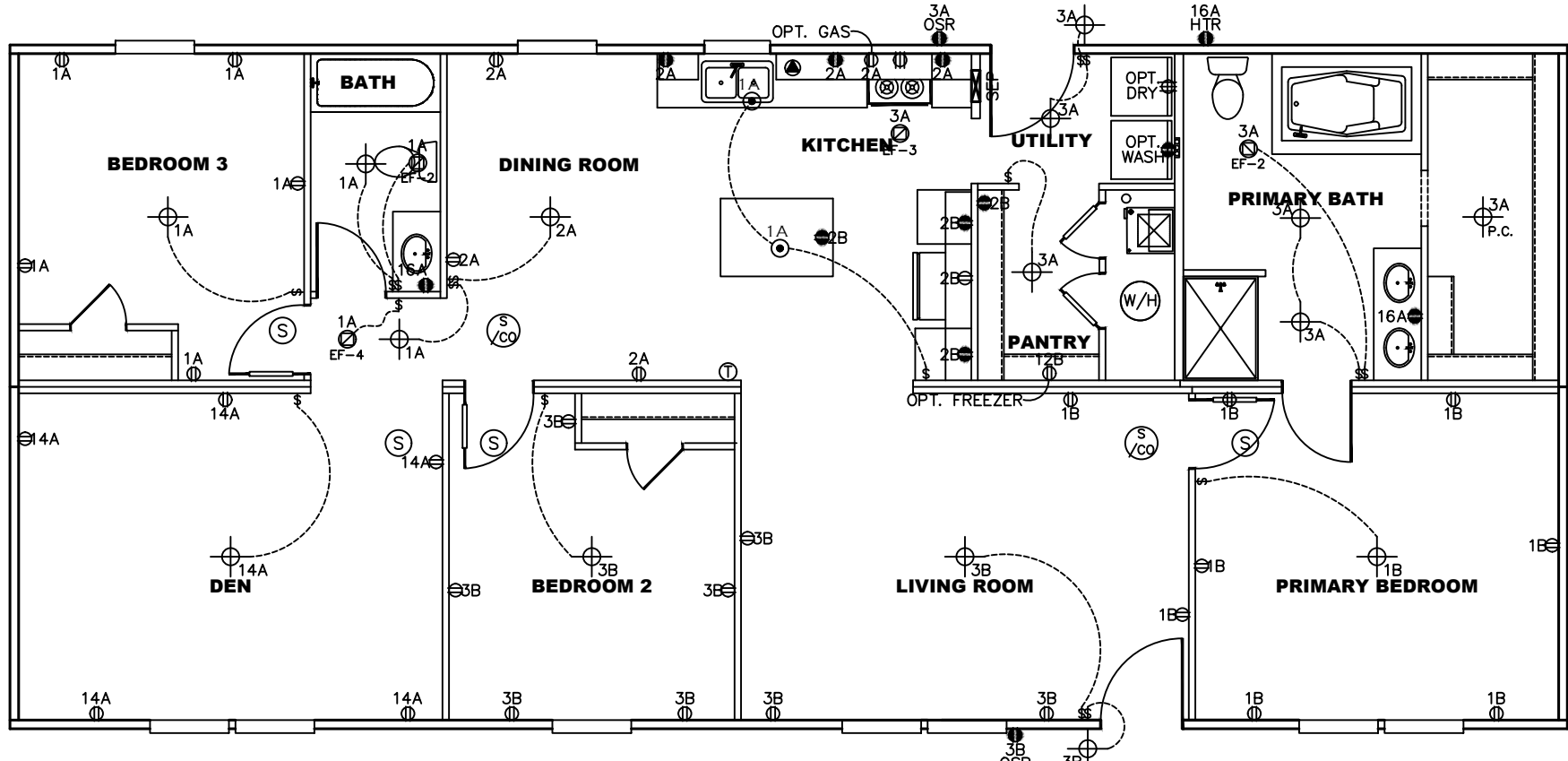


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SHEET:	FP	FLOOR PLAN	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M212-FP MODEL #: EAG28603S DATE: 04/11/2023	MODEL: THE EAGLE 60 (28'x60') SERIES: EAGLE SERIES PRODUCT DESIGNER: DANIEL C. SHELDON	STD PLAN "CONDITIONED": 1,580 FT ² REV. BY: REV. DATE:
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APPROVED **HWC** **APPROVED**

08 MAY 2023
FP-28-5635

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And Safety Standards

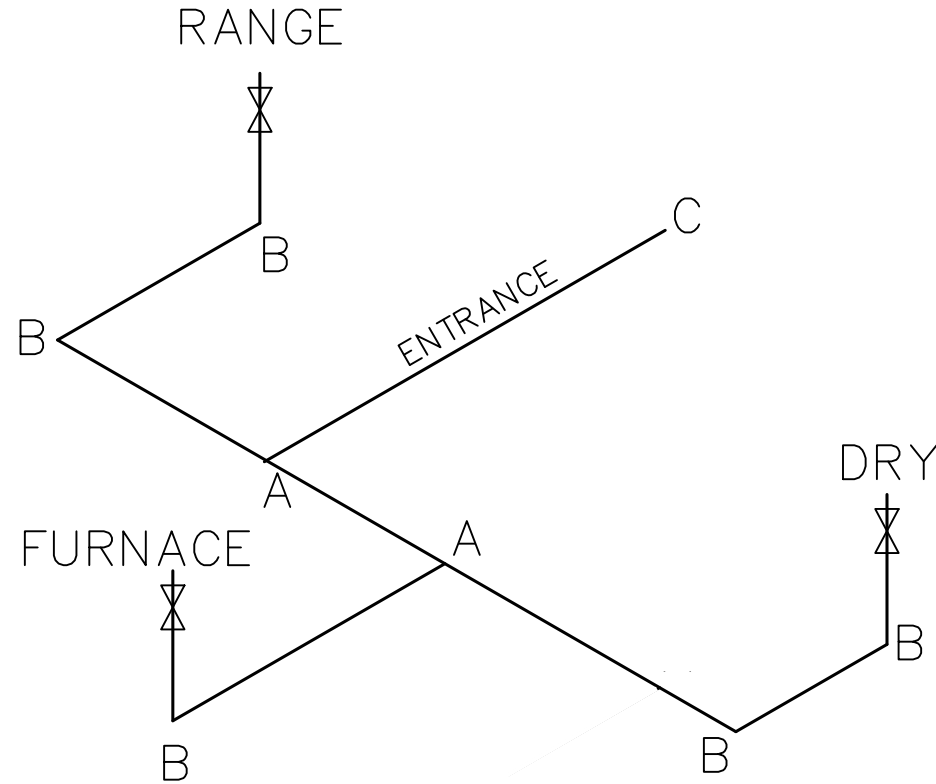
NOTES:

1. ALL CIRCUITS SHOWN ARE FOR REFERENCE AND MAY BE CHANGED BASED ON OPTIONAL COMPONENTS INSTALLED IN THE HOME.
2. REFER TO DAPIA MANUAL FOR SYMBOL CHART.
3. EITHER LIGHT OR RECEPTACLE MUST CONNECT TO SWITCH.
4. EF-1= 50 CFM EXHAUST FAN REQUIRED FOR THERMAL ZONE III THERMAL ZONES I & II MAY USE FAN OR WINDOW W/1.5 SQ. FT. OPENABLE GLASS.
5. EF-2= 50 CFM EXHAUST FAN REQUIRED THERMAL ZONE I, II, AND III.
6. EF-3= 100 CFM RANGE EXHAUST FAN, SWITCH AT HOOD.
7. EF-4= WHOLE HOUSE VENTILATION REQUIREMENTS PER DAPIA MANUAL.
8. REFER TO DAPIA MANUAL OR THE MFG. INSTALLATION INSTRUCTIONS FOR PROPER WIRE SIZE AND BREAKER SIZE FOR SPECIFIC APPLIANCE AND MODEL BEING INSTALLED.
9. ALL SMOKE ALARMS TO BE LOCATED ON THE CEILING.
10. CARBON MONOXIDE ALARMS ARE ONLY REQUIRED WHEN HOME HAS EITHER FUEL BURNING APPLIANCES, IS GARAGE READY OR IS BASEMENT READY. REFERENCE DAPIA MANUAL FOR ADDITIONAL INFORMATION.
11. DIMENSIONS SHOWN ON PRINT ARE APPROXIMATE AND TO BE USED ONLY AS A GUIDELINE.
12. LOUVERED DOORS SERVE HAS RETURN AIR GRILL.

CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT/RECEP	1A,1B,3A,3B,14A	14-2	15-SP	WATER HEATER	4A,6B	SEE NOTE #8		BATHROOM	16A	12-2	20-SP
KITCHEN/DINING	2A,2B	12-2	20-SP	RANGE	5B,7A	SEE NOTE #8		OPT G/DISP	9B	SEE NOTE #8	
WASHER	12A	12-2	20-SP	FURNACE	6A,8A,B,10A,B	SEE NOTE #8		OPT SPA/WP/JAC	11A,B	SEE NOTE #8	
DRYER	5A,7B	SEE NOTE #8		OPT D/WASH	9A	SEE NOTE #8		FREEZER	12B	SEE NOTE #8	
				SMOKE ALARM	4B	SEE NOTE #8					

LEGEND		APPLIANCE BTU's RATINGS MAX. INPUT	
SYM	FITTINGS		
A	TEE	FURNACE	77,000 BTU'S
B	90 ELL	W/H	N/A
X	VALVE	RANGE	54,000 BTU'S
C	CAP	DRYER	22,000 BTU'S

MDL = 20'



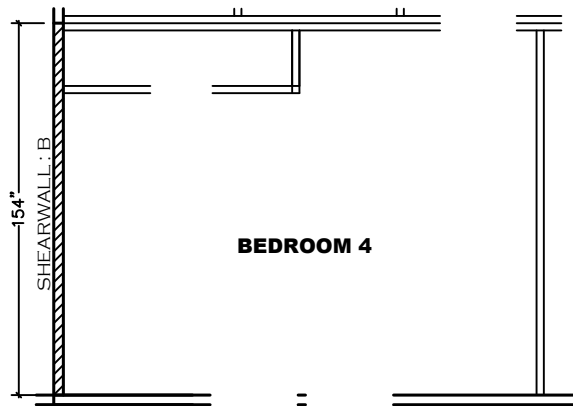
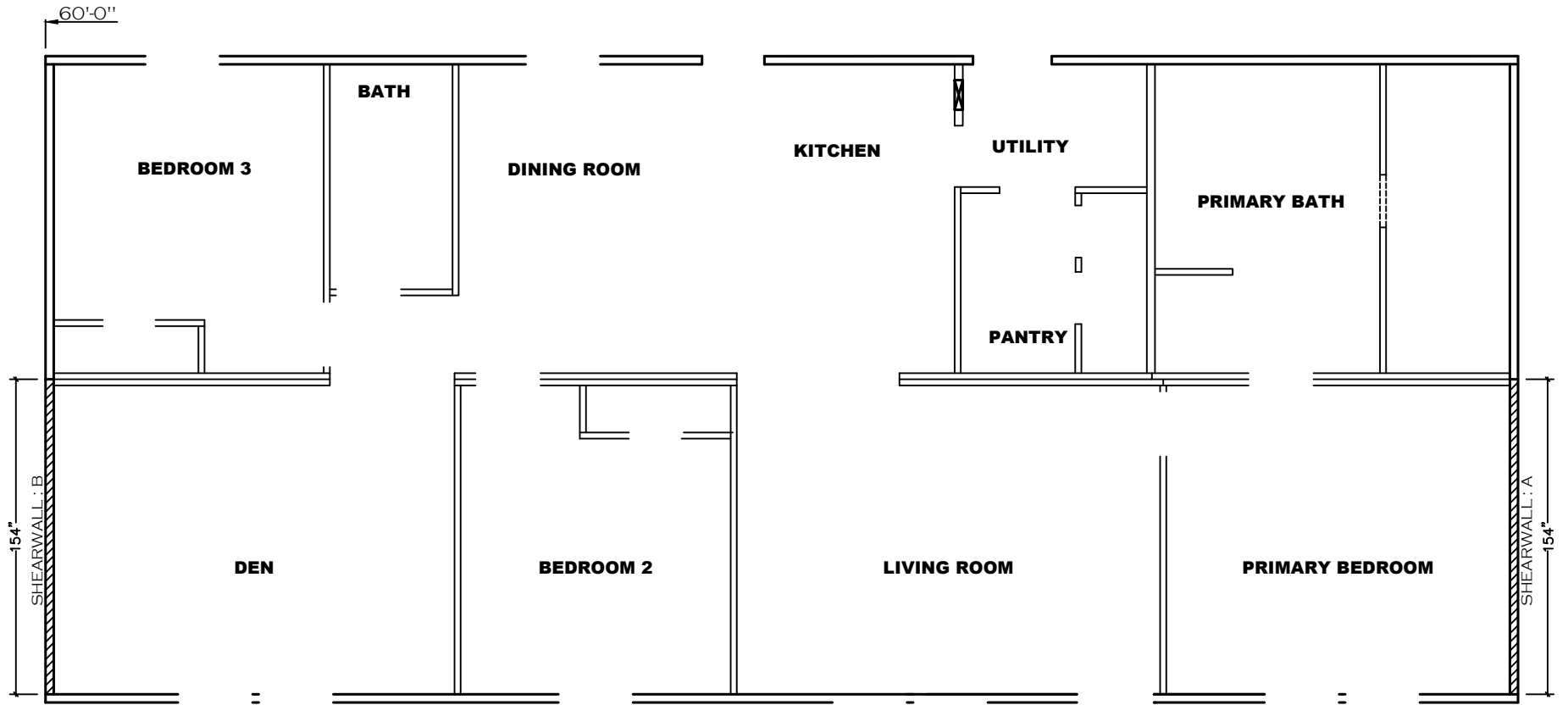
NOTES:

- 1) ALL PIPE IS 3/4" I.D.CAST.
(EXCEPT WHERE NOTED OTHERWISE).
- 2) MDL = MAX. DETERMINED LENGTH OF PIPE.
- 3) FITTING MAY BE ADDED OR SUBTRACTED TO TRAVERSE VARIATIONS IN AXLE QUANTITY, PLACEMENT, AND FRAME TYPE.
- 4) INLET LOCATION MAY VARY TO STAY WITHIN MAX. DETERMINED LENGTH.

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 FP-28-5635
 Federal Manufactured
 Home Construction
 And Safety Standards

GAS LINE SIZE CHART	
	= 1"
	= 3/4"

SHEET:	GL	GAS LINE DETAIL	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M212-GL MODEL # EAG28603A DATE: 05/04/2023	MODEL: THE EAGLE 60 (28'x60') SERIES: EAGLE SERIES PRODUCT DESIGNER: DANIEL C. SHELDON	STD PLAN "CONDITIONED": 1,580 FT ² REV. BY: REV. DATE:
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Model # 34M174 Minimum Joist Spacing 16"

Box Width = 158" Double wide No Offset Box
 Box Length = 60 ft. 99.5" 12" MIN. IBEAM No Clerestory
 No Skylights No Origami Dormer
 No Porches No Sunken Floor
 Joist Size = #2 spf 2x6 Lags 9Mx3" No Parapet Roof

Version R13.20

Wind Zone 1 Standard Roof		(3/8" sheathing only with 15 gax 1.5" at 5"/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate & 1x4 Rail. Each spliced w/ 12" glue block.				96 inch sidewall
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes
A	0'	136"	162	2	2/1	
B	60'	136"	162	2	2/1	

Wind Zone 2 Standard Roof		(3/8" sheathing only with 15 gax 1.5" at 5"/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate & 2x4 Rail. Each spliced w/ 12" glue block.				96 inch sidewall
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes
A	0'	Full	425	2	4/4	
B	60'	Full	425	2	4/4	

Wind Zone 1 5:12 Roof		(3/8" sheathing only with 15 gax 1.5" at 5"/10" oc. (197 plf) Chords: 2x4 SPF #3 Top Plate & 1x4 Rail. Each spliced w/ 12" glue block.				96 inch sidewall
Shearwall	Dist./ Hitch	Length	PLF	# of Joists	Lags	Notes
A	0'	Full	425	2	4/4	
B	60'	Full	425	2	4/4	

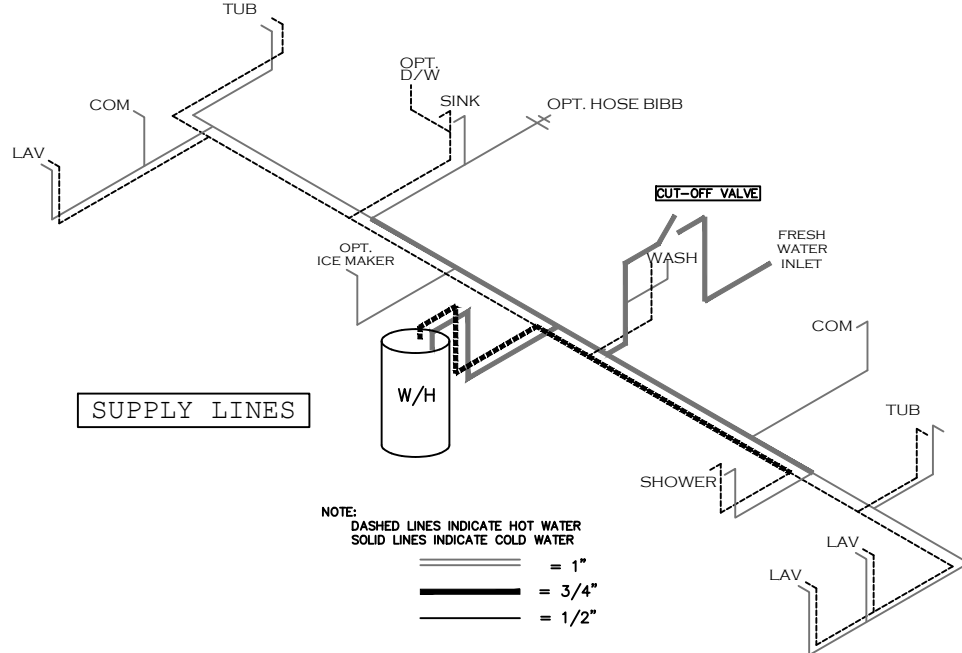
APPROVED **HWC** **APPROVED**

08 MAY 2023
 FP-28-5635
 Federal Manufactured Home Construction And Safety Standards




SHEET: SW	SHEARWALL PLAN	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M212-SW MODEL # EAG28603A DATE: 02/15/2018 SCALE: N.T.S.	MODEL: THE EAGLE 60 (28'x60') SERIES: EAGLE SERIES PRODUCT DESIGNER: DANIEL C. SHELDON	STD PLAN "CONDITIONED": 1,580 FT² REV. BY: DANIEL C. SHELDON REV. DATE: 05/23/2018
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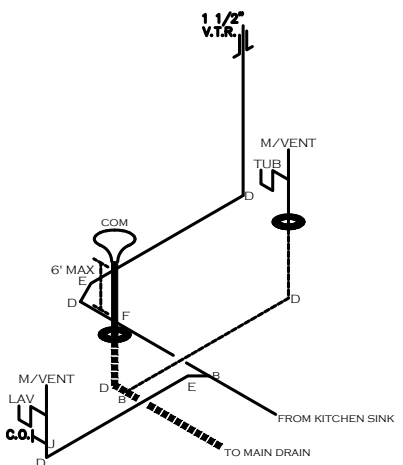
SHIP LOOSE CHART

PARTS SHIPPED LOOSE W/HOME (TO BE INSTALLED IN FIELD)	
QUANTITY	DESCRIPTION
1	Ⓓ 3" LONG SWEEP 1/4 BEND
1	Ⓔ 3x1 1/2x3 LONG TURN T-Y
1	Ⓗ 3" DBL ELL
1	3" COUPLING
2	CLEAN OUT-END CAP
1	APPROVED CEMENT
2 PCS	3" ABS PIPE 20' (min. 36' total length)
1 PCS	1 1/2" ABS PIPE 20' (min. 16' total length)
varies	SUPPORT STRAPS



NOTE: DASHED LINES INDICATE HOT WATER
SOLID LINES INDICATE COLD WATER

 = 1"
 = 3/4"
 = 1/2"



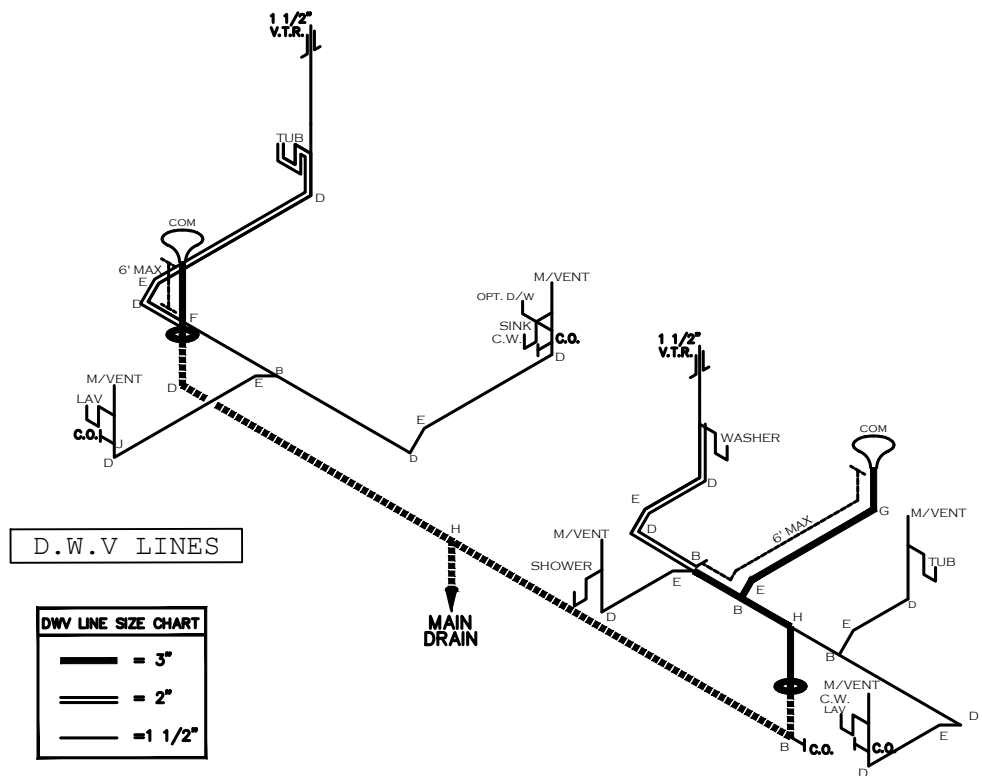
D.W.V LINES
W/ STEEL TUB

APPROVED **HWC** **APPROVED**




08 MAY 2023
FP-28-5635


Federal Manufactured Home Construction And Safety Standards

LEGEND	
A	SHORT TURN T-Y
B	LONG TURN T-Y
C	1/4 BEND
D	LONG SWEEP 1/4 BEND
E	45 ELL
F	DBL. SANITARY TEE
G	4x3 CLOSET ELL
H	DOUBLE ELL
I	22 1/2° ELL
J	45° Y
K	LONG TURN STREET ELBOW
L	45 FTG ELL



D.W.V LINES

DWV LINE SIZE CHART	
	= 3"
	= 2"
	= 1 1/2"

SHEET: WL	D.W.V. & SUPPLY LINES	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M212-WL MODEL #: EAG28603A DATE: 04/28/2023	MODEL: THE EAGLE 60 (28'x60') SERIES: EAGLE SERIES PRODUCT DESIGNER: DANIEL C. SHELDON	STD PLAN "CONDITIONED": 1,580 FT ² REV. BY: DCS REV. DATE:
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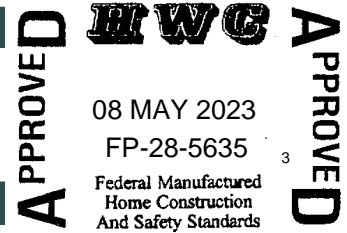
Building Analysis
Entire House
Clayton Homes Appalachia

Job: 34M212 - FDJ-TZ2
 Date: Apr 19, 2023
 By: Brian Riffey
 Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2



Design Conditions

Location:

Knoxville McGhee Tyson AP, TN, US
 Elevation: 981 ft
 Latitude: 36°N

Outdoor:

Drybulb (°F)
 Daily range (°F)
 Wet bulb (°F)
 Wind speed (mph)

Heating

15
 -
 -
 15.0

Cooling

93
 19 (M)
 74
 7.5

Indoor:

Indoor temperature (°F)
 Design TD (°F)
 Relative humidity (%)
 Moisture difference (gr/lb)

Heating

70
 55
 30
 24.1

Cooling

75
 18
 50
 36.2

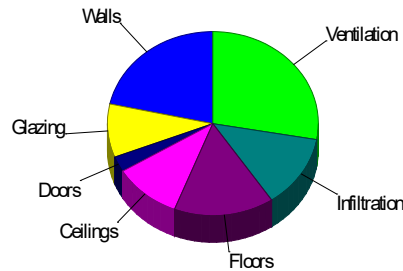
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Semi-tight
 0

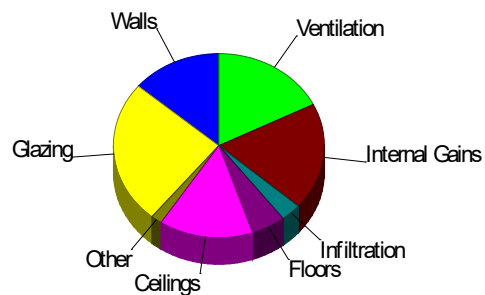
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.5	5414	21.6
Glazing	16.5	2357	9.4
Doors	16.5	674	2.7
Ceilings	1.6	2624	10.4
Floors	2.4	3848	15.3
Infiltration	2.3	3218	12.8
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		6977	27.8
Adjustments		0	0
Total		25111	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	2436	13.8
Glazing	31.2	4453	25.2
Doors	7.4	303	1.7
Ceilings	1.6	2540	14.4
Floors	0.6	927	5.3
Infiltration	0.4	555	3.1
Ducts		0	0
Ventilation		3107	17.6
Internal gains		3320	18.8
Blower		0	0
Adjustments		0	0
Total		17641	100.0



Latent Cooling Load = 5458 Btuh
 Overall U-value = 0.059 Btuh/ft²-°F, Window / Floor Area = 9.0 %

Data entries checked.



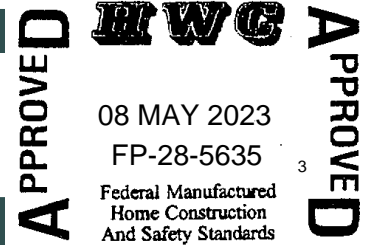
Component Constructions
Entire House
Clayton Homes Appalachia

Job: 34M212 - FDJ-TZ2
Date: Apr 19, 2023
By: Brian Riffey
Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2



Design Conditions

Location:

Knoxville McGhee Tyson AP, TN, US
Elevation: 981 ft
Latitude: 36°N

Outdoor:

Drybulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

15
-
-
15.0

Cooling

93
19 (M)
74
7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Infiltration:

Method
Construction quality
Fireplaces

Heating

70
55
30
24.1

Cooling

75
18
50
36.2

Simplified
Semi-tight
0

Construction descriptions

Walls

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
CMH - DW - R-13 Wall - THP-502 DOE: Double Wide - R-13 Insulation	n	212	0.082	13.0	4.51	956	2.03	430
THP-502 2x4 Wall DOE	e	422	0.082	13.0	4.51	1903	2.03	856
	s	212	0.082	13.0	4.51	956	2.03	430
	w	354	0.082	13.0	4.51	1598	2.03	719
	all	1200	0.082	13.0	4.51	5414	2.03	2436

Partitions

(none)

Windows

Clayton - Theropanel Low-E DOE: Clayton - Theropanel Low-E DOE;	e	8	0.300	0	16.5	136	21.9	181
50% blinds 45°, medium; 50% outdoor insect screen; 6.67 ft head ht	e	30	0.300	0	16.5	495	21.9	658
	w	75	0.300	0	16.5	1238	21.9	1646
	w	15	0.300	0	16.5	241	42.3	617
	all	128	0.300	0	16.5	2109	24.3	3102
Clayton - Theropanel Low-E DOE: 1 glazing, clr glz, mtl no brk frm mat,	w	15	0.300	0	16.5	248	21.9	329
1/4" thk; 50% blinds 45°, medium; 50% outdoor insect screen; 6.67 ft head ht								

Doors

CMH - Standard Door DOE: CMH - Standard Door -Solid no strom DOE	e	20	0.300	0	16.5	327	7.42	147
	w	21	0.300	0	16.5	347	7.42	156
	all	41	0.300	0	16.5	674	7.42	303

Ceilings

CMH - DW - 158 box R-38 - THP771 - DOE: DW - 158 box R-38		1590	0.030	38.0	1.65	2624	1.60	2540
Applegate Insulation THP771 - Flat Ceiling 24oc								

Floors

CMH - DW - R-22 - THP-161 DOE: Double Wide - R-22 Applegate		1590	0.044	22.0	2.42	3848	0.58	927
Insulation THP-161 DOE								





Project Summary
Entire House
Clayton Homes Appalachia

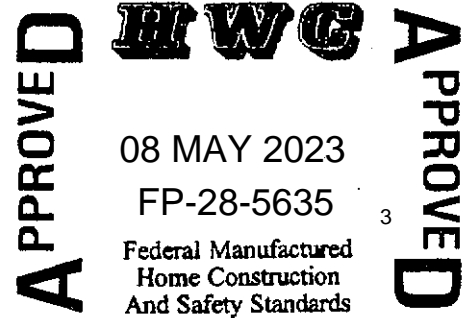
Job: 34M212 - FDJ-TZ2
 Date: Apr 19, 2023
 By: Brian Riffey
 Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2

Notes: Duct Capacity: 27100 BTUH



Design Information

Weather: Knoxville McGhee Tyson AP, TN, US

Winter Design Conditions

Outside db 15 °F
 Inside db 70 °F
 Design TD 55 °F

Summer Design Conditions

Outside db 93 °F
 Inside db 75 °F
 Design TD 18 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 36 gr/lb

Heating Summary

Structure 19856 Btuh
 Ducts 0 Btuh
 Central vent (90 cfm) 5255 Btuh
 Outside air
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 25111 Btuh

Sensible Cooling Equipment Load Sizing

Structure 15959 Btuh
 Ducts 0 Btuh
 Central vent (90 cfm) 1682 Btuh
 Outside air
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.98
 Equipment sensible load 17217 Btuh

Infiltration

Method Simplified
 Construction quality Semi-tight
 Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 3319 Btuh
 Ducts 0 Btuh
 Central vent (90 cfm) 2139 Btuh
 Outside air
 Equipment latent load 5458 Btuh

	Heating	Cooling
Area (ft ²)	1590	1590
Volume (ft ³)	12720	12720
Air changes/hour	0.26	0.14
Equiv. AVF (cfm)	55	30

Equipment Total Load (Sen+Lat) 22676 Btuh
 Req. total capacity at 0.70 SHR 2.0 ton

Heating Equipment Summary

Make Smart Comfort
 Trade 15 SEER2 R SERIES R410A HP
 Model R4H5S24*K*AAA*
 AHRI ref 0
 Efficiency 7.5 HSPF2
 Heating input
 Heating output 23000 Btuh @ 47°F
 Temperature rise 27 °F
 Actual air flow 813 cfm
 Air flow factor 0.041 cfm/Btuh
 Static pressure 0.30 in H2O
 Space thermostat
 Capacity balance point = 24 °F

Cooling Equipment Summary

Make Smart Comfort
 Trade 15 SEER2 R SERIES R410A HP
 Cond R4H5S24*K*AAA*
 Coil FEVA0036**+NAVA43601CK
 AHRI ref 0
 Efficiency 12.0 EER2, 15.2 SEER2
 Sensible cooling 17080 Btuh
 Latent cooling 7320 Btuh
 Total cooling 24400 Btuh
 Actual air flow 813 cfm
 Air flow factor 0.051 cfm/Btuh
 Static pressure 0.30 in H2O
 Load sensible heat ratio 0.76

Backup: Smart Comfort
 Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





AED Assessment
Entire House
Clayton Homes Appalachia

Job: 34M212 - FDJ-TZ2
 Date: Apr 19, 2023
 By: Brian Riffey
 Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2

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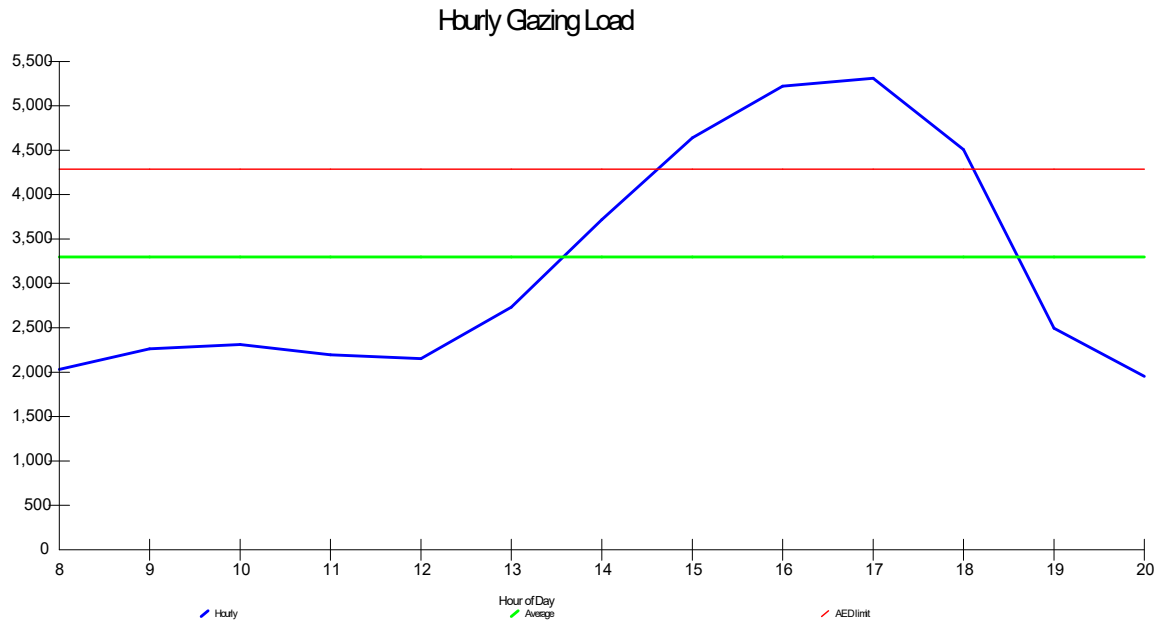
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08 MAY 2023
 FP-28-5635
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 Home Construction
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Design Conditions

Location:		Indoor:		Heating	Cooling
Knoxville McGhee Tyson AP, TN, US		Indoor temperature (°F)		70	75
Elevation: 981 ft		Design TD (°F)		55	18
Latitude: 36°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		24.1	36.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	15	93			
Daily range (°F)	-	19 (M)			
Wet bulb (°F)	-	74			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 61.0%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 1022 Btuh (PFG - 1.3*AFG)



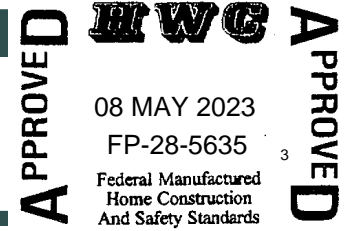
Duct System Summary
Entire House
Clayton Homes Appalachia

Job: 34M212 - FDJ-TZ2
 Date: Apr 19, 2023
 By: Brian Riffey
 Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2



	Heating	Cooling
External static pressure	0.30 in H2O	0.30 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.30 in H2O	0.30 in H2O
Supply / return available pressure	0.150 / 0.150 in H2O	0.150 / 0.150 in H2O
Lowest friction rate	0.176 in/100ft	0.176 in/100ft
Actual air flow	813 cfm	813 cfm
Total effective length (TEL)	171 ft	

Supply Branch Detail Table

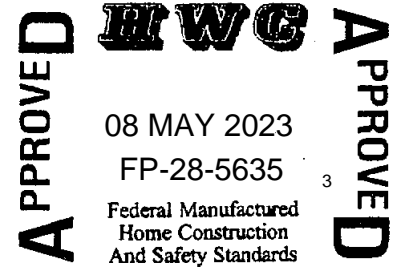
Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk	
BEDROOM 2	c	1678	57	86	0.203	6.0	0x0	VIFx	23.1	125.0	st5
BEDROOM 3	h	2128	87	70	0.392	4.2	5x5	ShMt	41.5	35.0	st3
DEN	h	1481	61	50	0.176	5.0	0x0	ShMt	45.6	125.0	st5
DEN-A	h	1481	61	50	0.188	5.0	0x0	VIFx	34.6	125.0	st5
DINING/KITCHEN	c	1689	73	86	0.500	5.0	0x0	VIFx	25.0	35.0	st3
DINING/KITCHEN-A	c	1689	73	86	0.659	5.0	0x0	VIFx	10.5	35.0	st3
H BATH	h	592	24	13	0.458	5.0	0x0	VIFx	30.5	35.0	st3
LIVING ROOM	c	1607	65	82	0.205	6.0	0x0	VIFx	21.1	125.0	st5
LIVING ROOM-A	c	1607	65	82	0.201	6.0	0x0	VIFx	24.1	125.0	st4
PRIMARY BATH	h	3399	139	92	0.750	6.0	0x0	ShMt	5.0	35.0	st1
PRIMARY BEDROOM	c	1145	55	58	0.184	4.2	5x5	ShMt	37.6	125.0	st4
PRIMARY BEDROOM-A	c	1145	55	58	0.198	5.0	0x0	VIFx	26.1	125.0	st4

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4	Peak AVF	175	199	0.184	409	5.7	5 x 14	ShtMetl	st2
st5	Peak AVF	242	268	0.176	551	7.9	5 x 14	ShtMetl	st2
st2	Peak AVF	417	466	0.176	959	10.4	5 x 14	VinIFlx	
st3	Peak AVF	257	255	0.392	529	6.6	5 x 14	ShtMetl	
st1	Peak AVF	139	92	0.750	286	4.6	5 x 14	ShtMetl	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	813	813	0	0	0	0	0x 0		VIFx	



**Manual S Compliance Report***Entire House***Clayton Homes Appalachia**

Job: 34M212 - FDJ-TZ2

Date: Apr 19, 2023

By: Brian Riffey

Plan: 34M212 -FDJ-TZ2

1420 Mountain Rd, Andersonville, TN 37705 Phone: 865-494-7800 ext 257

Project Information

For: 34M212 - FDJ-TZ2

APPROVED**HWG****APPROVED**

08 MAY 2023

FP-28-5635

Federal Manufactured
Home Construction
And Safety Standards**Cooling Equipment****Design Conditions**

Outdoor design DB:	92.6°F	Sensible gain:	17641	Btuh	Entering coil DB:	77.0°F
Outdoor design WB:	74.3°F	Latent gain:	5458	Btuh	Entering coil WB:	63.9°F
Indoor design DB:	75.0°F	Total gain:	23099	Btuh		
Indoor RH:	50%	Estimated airflow:	813	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	Smart Comfort	Model:	R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK			
Actual airflow:	813	cfm				
Sensible capacity:	17080	Btuh	97% of load			
Latent capacity:	7320	Btuh	134% of load			
Total capacity:	24400	Btuh	106% of load SHR: 70%			

Heating Equipment**Design Conditions**

Outdoor design DB:	15.0°F	Heat loss:	25111	Btuh	Entering coil DB:	63.8°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	Smart Comfort	Model:	R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK			
Actual airflow:	813	cfm				
Output capacity:	23000	Btuh	92% of load			
Supplemental heat required:	2111	Btuh	Capacity balance: 24 °F			
			Economic balance: -99 °F			

Backup equipment type:	Elec strip					
Manufacturer:	Smart Comfort	Model:				
Actual airflow:	813	cfm				
Output capacity:	10.0	kW	136% of load Temp. rise: 41 °F			

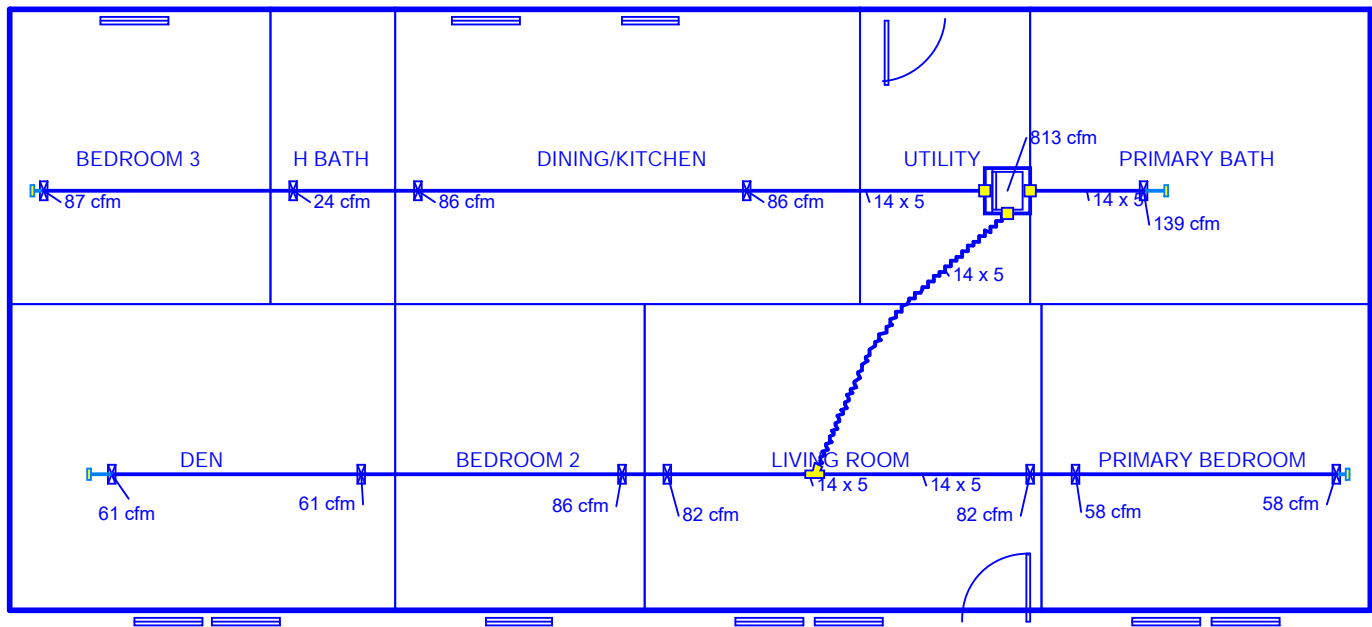
Meets all requirements of ACCA Manual S.





APPROVED **RWC** **APPROVED**
 08 MAY 2023
 FP-28-5635
 Federal Manufactured
 Home Construction
 And Safety Standards

Level 1



Job #: 34M212 - FDJ-TZ2
Performed by Brian Riffey for:
 34M212 - FDJ-TZ2

Clayton Homes Appalachia

1420 Mountain Rd
 Andersonville, TN 37705
 Phone: 865-494-7800 ext 257

Scale: 1 : 102

Page 1
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CLAYTON HOME BUILDING GROUP

Eagle

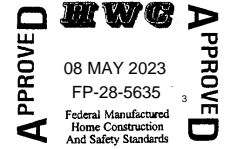
Model Number	EGL28603A	Drawing Number	34M212	v1.1
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BOX SIZE: 26.33 ft. x 60 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION



INSULATION VALUES	FLOOR	WALL	FLAT ROOF
	R-22	R-13	R-38
U VALUE (BTUH/SQ.FT.-F)	0.0510	0.0820	0.0280

DOUBLE WIDE ONLY
Max Glazing Zone 2 w/ 2x4
Walls (sq ft)

R-11	117.6
R-13	163.7
R-15	206.5
R-11 + R3	211.7
R-13 + R3	246.4
R-15 + R3	269.9

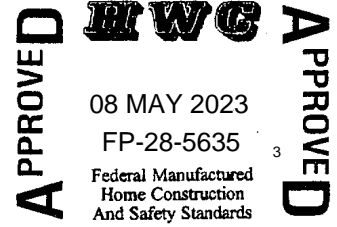
Max Glass (sq ft)

Th. Zone 1	511.7
Th. Zone 2	179.6
Th. Zone 3	-47.4

		Area	U Value	UA
Doors:	Front	21.63	0.510	11.03
	Rear	19.36	0.130	2.52
	SGD	0.00	0.330	0.00
	OSB	0.00	0.000	0.00
Window Glass Area:	Std	143.00	0.300	42.90
	Opt	0.00	0.300	0.00
	Net:			
	Floor	1579.80	0.051	80.57
	Wall	1197.29	0.082	98.18
	Ceiling	1579.80	0.0280	44.23
Th. Zone 1:	Ext. Duct	78.50	0.242	18.98
Th. Zone 2:	Ext. Duct	78.50	0.223	17.48
Th. Zone 3:	Ext. Duct	78.50	0.206	16.14

Outdoor Design			
	Temp (F)	UA	Heatloss BTUH/F
Thermal Zone 1	11	298.41	0.065 419.30
Thermal Zone 2	0	296.91	0.064 417.80
Thermal Zone 3	-14	295.57	0.064 416.40

		Thermal Zone 1	Thermal Zone 2	Thermal Zone 3	U-Value	
Compliance	Zone 1	1	2	3	0.079	
	1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
	1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
	1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
	1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
	1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056



08 MAY 2023

FP-28-5635

Federal Manufactured
Home Construction
And Safety Standards

Model:

34M212

Serial Number:

TZ1

Cooling Equipment Summary

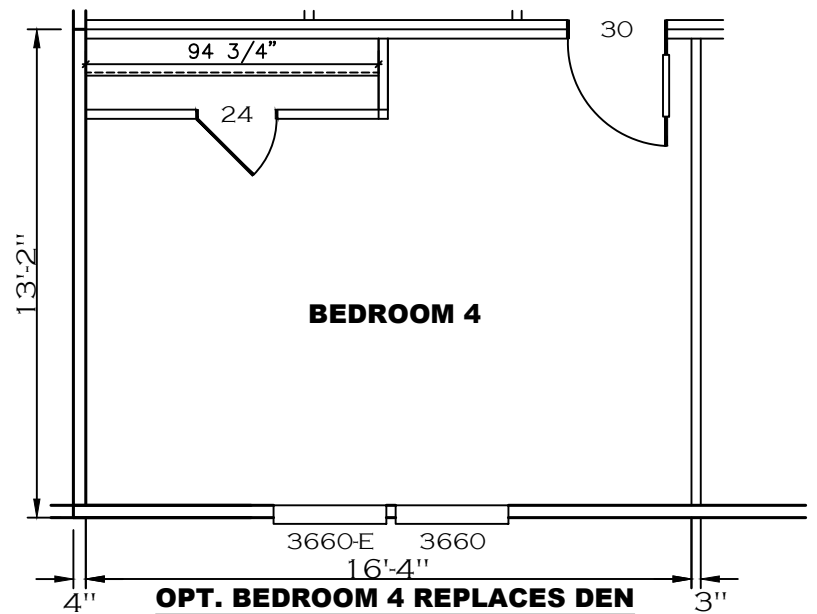
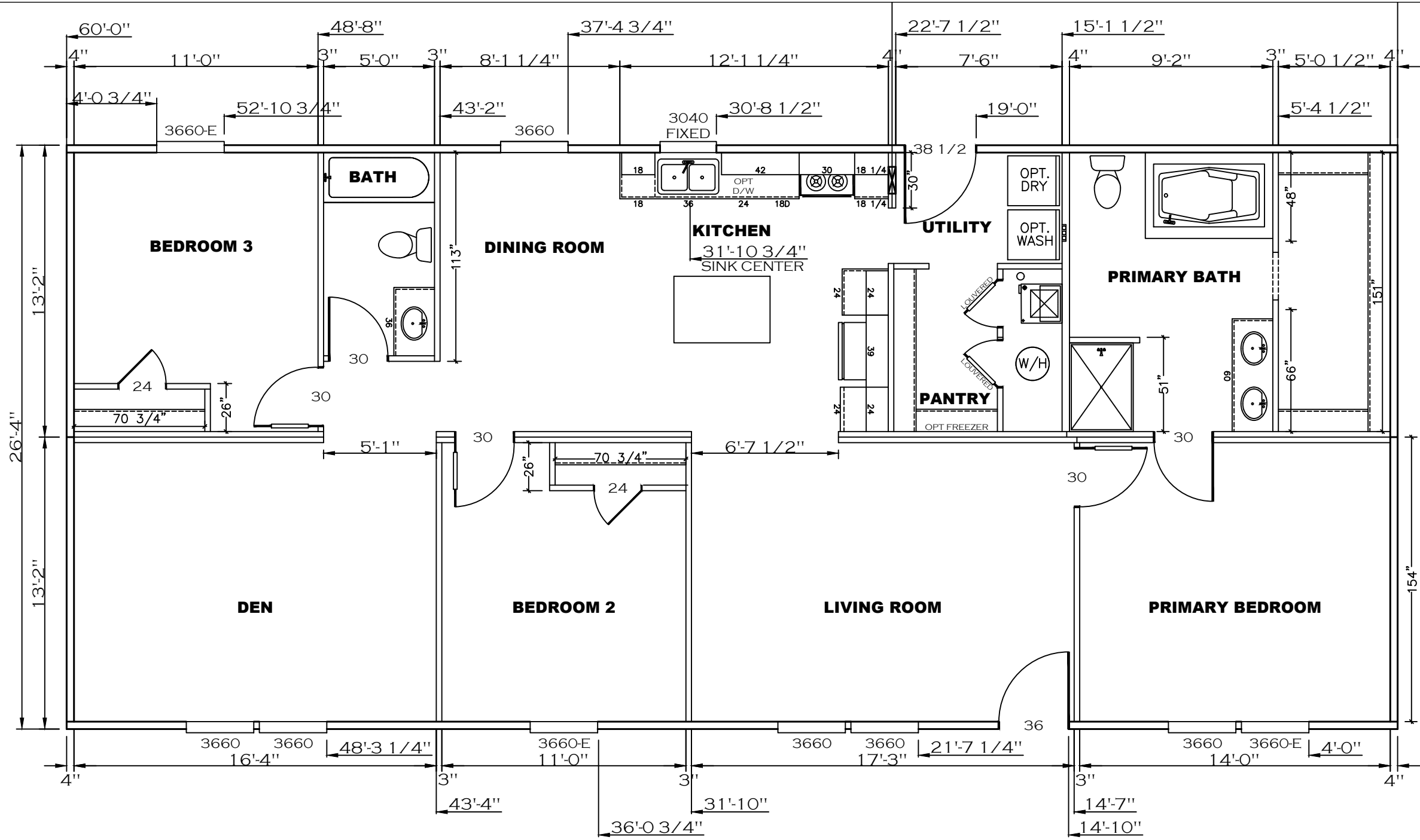
Duct Capacity: 27,100 btuh

Economy Outdoor Temp (°F) = 2 = (70 - Furnace Output / Estimated Heatloss)
(Outdoor Certification Temp.)Furnace Heating Temp (°F) = 22 = If $0.3 * \text{Design TD} > 20$ then
(Operating Econ. Cert. Temp.) $0.3 * (70 - \text{Cert. Temp.}) + \text{Cert. Temp}$
else Cert. Temp. + 20

Air Ducts in Floor: 159 sq ft

Air Ducts Outside of Home: 91.6 sq ft

v-2.0



SHEET: SHOP

CONSTRUCTION FLOOR PLAN

Clayton Clayton - 934
 1420 Mountain Rd, Andersonville, TN 37705
 PH: 865.494.7800 FAX: 865.494.0243

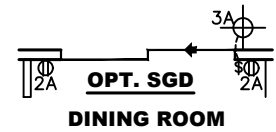
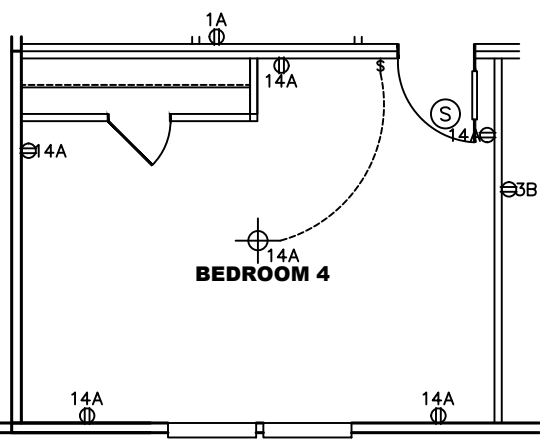
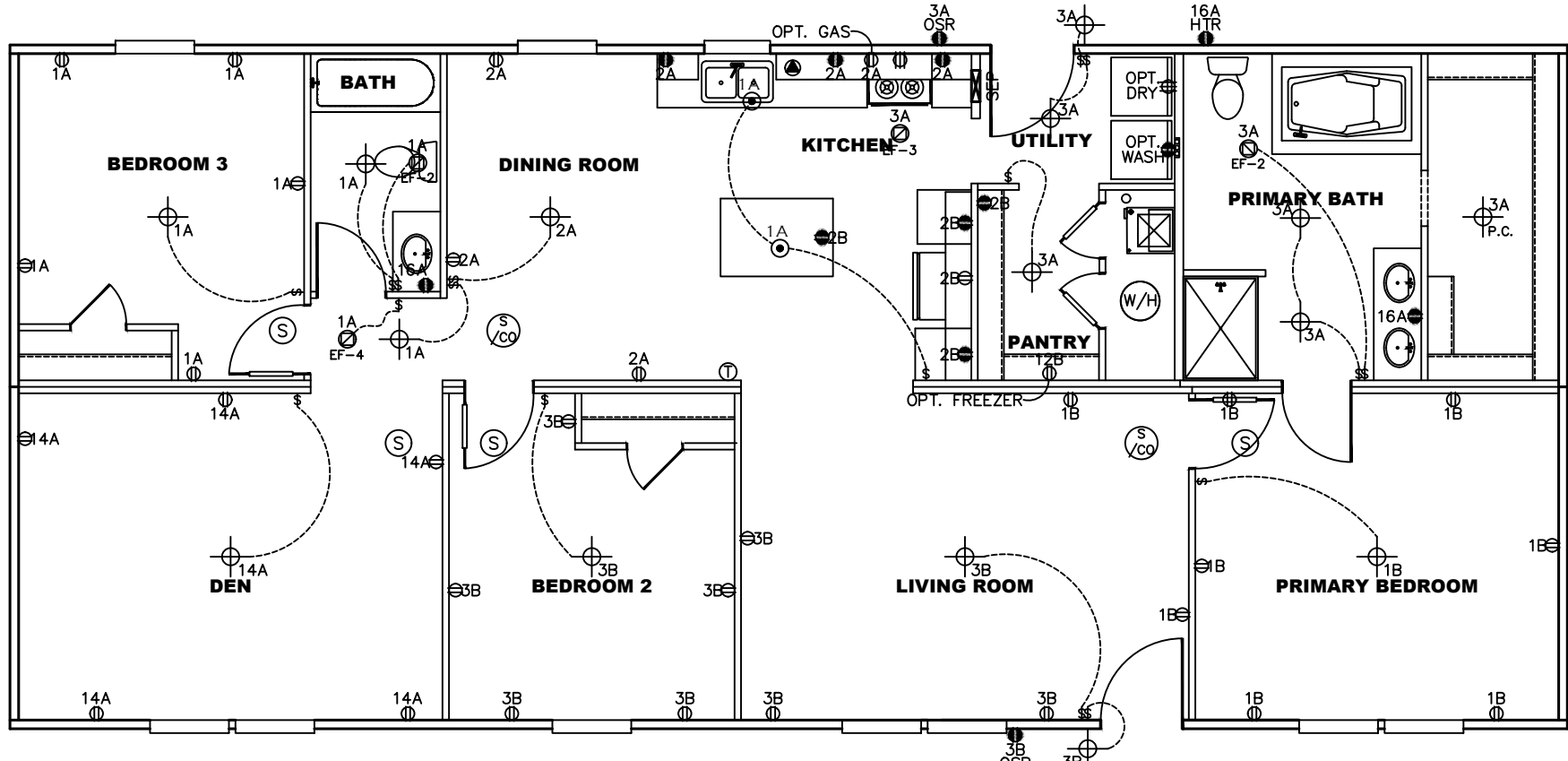
HILBORN, WERNER, CARTER, AND ASSOCIATES, INC.
 1627 SOUTH MYRTLE AVE.
 CLEARWATER, FL. 33756

DRAWING # 34M212
 MODEL # EGL28603A
 DATE: 06/16/2023 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
 SERIES: EAGLE SERIES
 PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN *CONDITIONED*: 1,580 FT²
 REV. BY:
 REV. DATE:

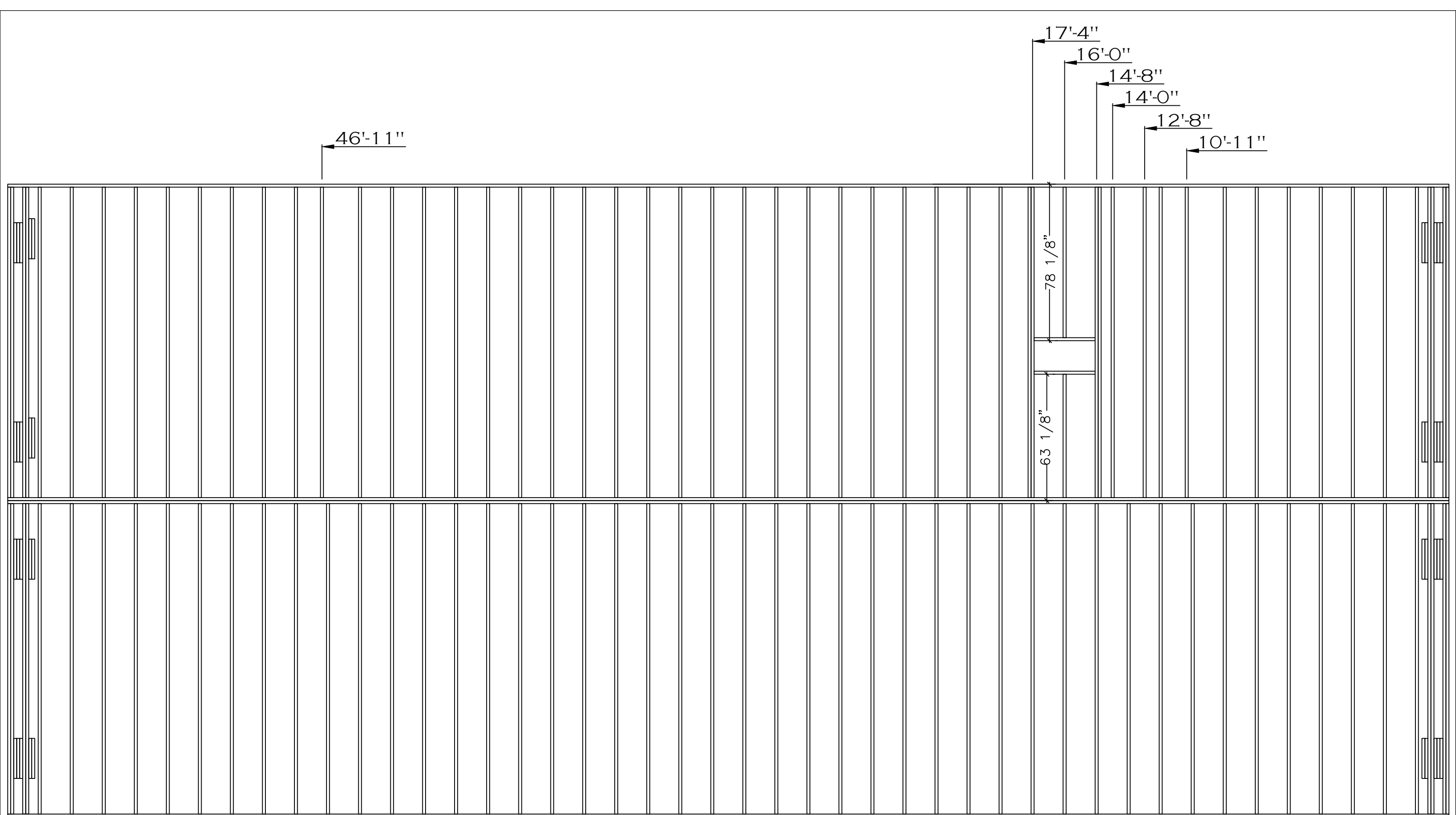
OPT. BEDROOM 4 REPLACES DEN



NOTES:

1. ALL CIRCUITS SHOWN ARE FOR REFERENCE AND MAY BE CHANGED BASED ON OPTIONAL COMPONENTS INSTALLED IN THE HOME.
2. REFER TO DAPIA MANUAL FOR SYMBOL CHART.
3. EITHER LIGHT OR RECEPTACLE MUST CONNECT TO SWITCH.
4. EF-1= 50 CFM EXHAUST FAN REQUIRED FOR THERMAL ZONE III THERMAL ZONES I & II MAY USE FAN OR WINDOW W/1.5 SQ. FT. OPENABLE GLASS.
5. EF-2= 50 CFM EXHAUST FAN REQUIRED THERMAL ZONE I, II, AND III.
6. EF-3= 100 CFM RANGE EXHAUST FAN, SWITCH AT HOOD.
7. EF-4= WHOLE HOUSE VENTILATION REQUIREMENTS PER DAPIA MANUAL.
8. REFER TO DAPIA MANUAL OR THE MFG. INSTALLATION INSTRUCTIONS FOR PROPER WIRE SIZE AND BREAKER SIZE FOR SPECIFIC APPLIANCE AND MODEL BEING INSTALLED.
9. ALL SMOKE ALARMS TO BE LOCATED ON THE CEILING.
10. CARBON MONOXIDE ALARMS ARE ONLY REQUIRED WHEN HOME HAS EITHER FUEL BURNING APPLIANCES, IS GARAGE READY OR IS BASEMENT READY. REFERENCE DAPIA MANUAL FOR ADDITIONAL INFORMATION.
11. DIMENSIONS SHOWN ON PRINT ARE APPROXIMATE AND TO BE USED ONLY AS A GUIDELINE.
12. LOUVERED DOORS SERVE HAS RETURN AIR GRILL.

CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT/RECEP	1A,1B,3A,3B,14A	14-2	15-SP	WATER HEATER	4A,6B	SEE NOTE #8		BATHROOM	16A	12-2	20-SP
KITCHEN/DINING	2A,2B	12-2	20-SP	RANGE	5B,7A	SEE NOTE #8		OPT G/DISP	9B	SEE NOTE #8	
WASHER	12A	12-2	20-SP	FURNACE	6A,8A,B,10A,B	SEE NOTE #8		OPT SPA/WP/JAC	11A,B	SEE NOTE #8	
DRYER	5A,7B	SEE NOTE #8		OPT D/WASH	9A	SEE NOTE #8		FREEZER	12B	SEE NOTE #8	
				SMOKE ALARM	4B	SEE NOTE #8					



SHEET:
FJIG

FLOOR JOIST
LAYOUT

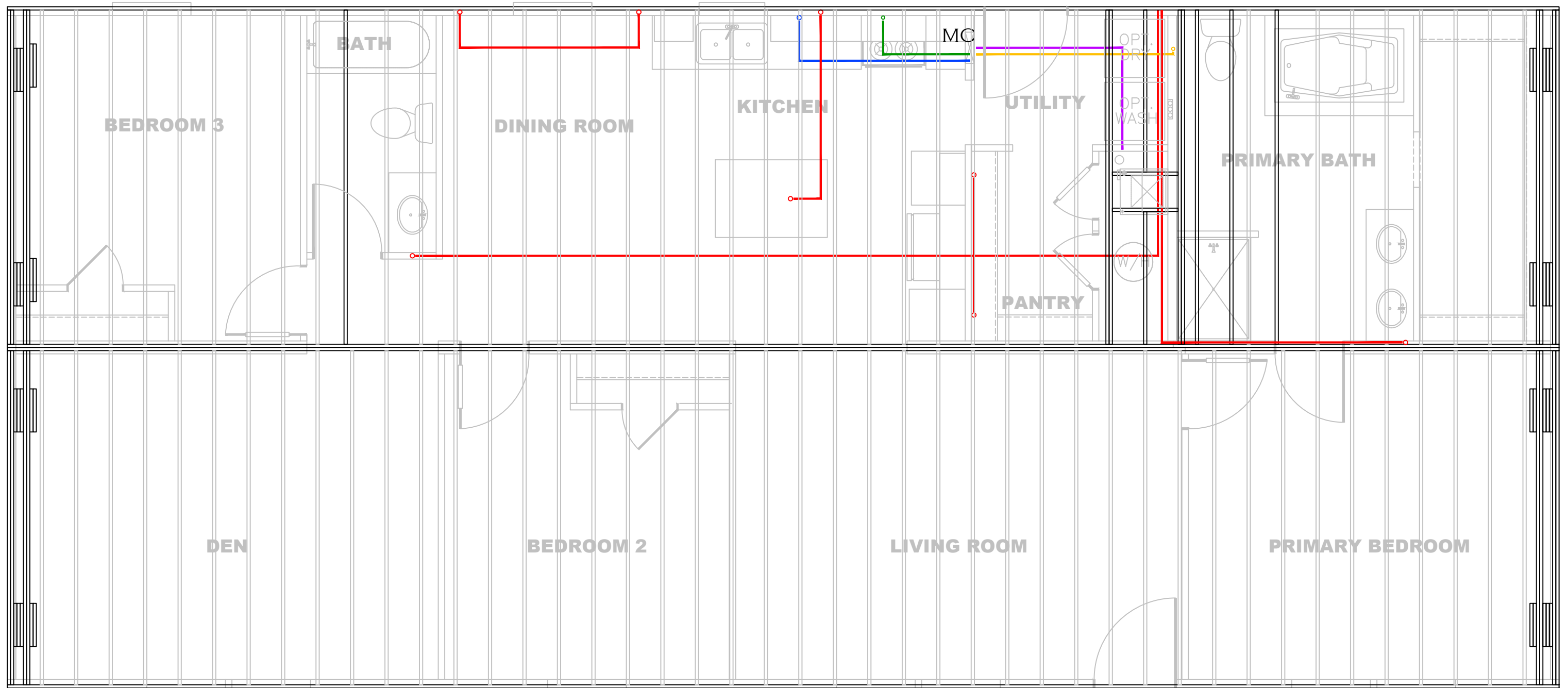
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING # 34M212
MODEL # EGL28603A
DATE: 06/16/2023 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
SERIES: EAGLE SERIES
PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN *CONDITIONED*: 1,580 FT²
REV. BY:
REV. DATE:



- = GFI (12-2)
- = RANGE
- = FURNACE
- = DRYER
- = WATER HEATER
- = DISHWASHER (D/W)
- = RANGE HOOD (14-2)
- MC = METER CENTER DROP

REV #	DATE	DESCRIPTION

SHEET:
FJIG
ELEC

FLOOR JOIST
ELECTRICAL LAYOUT

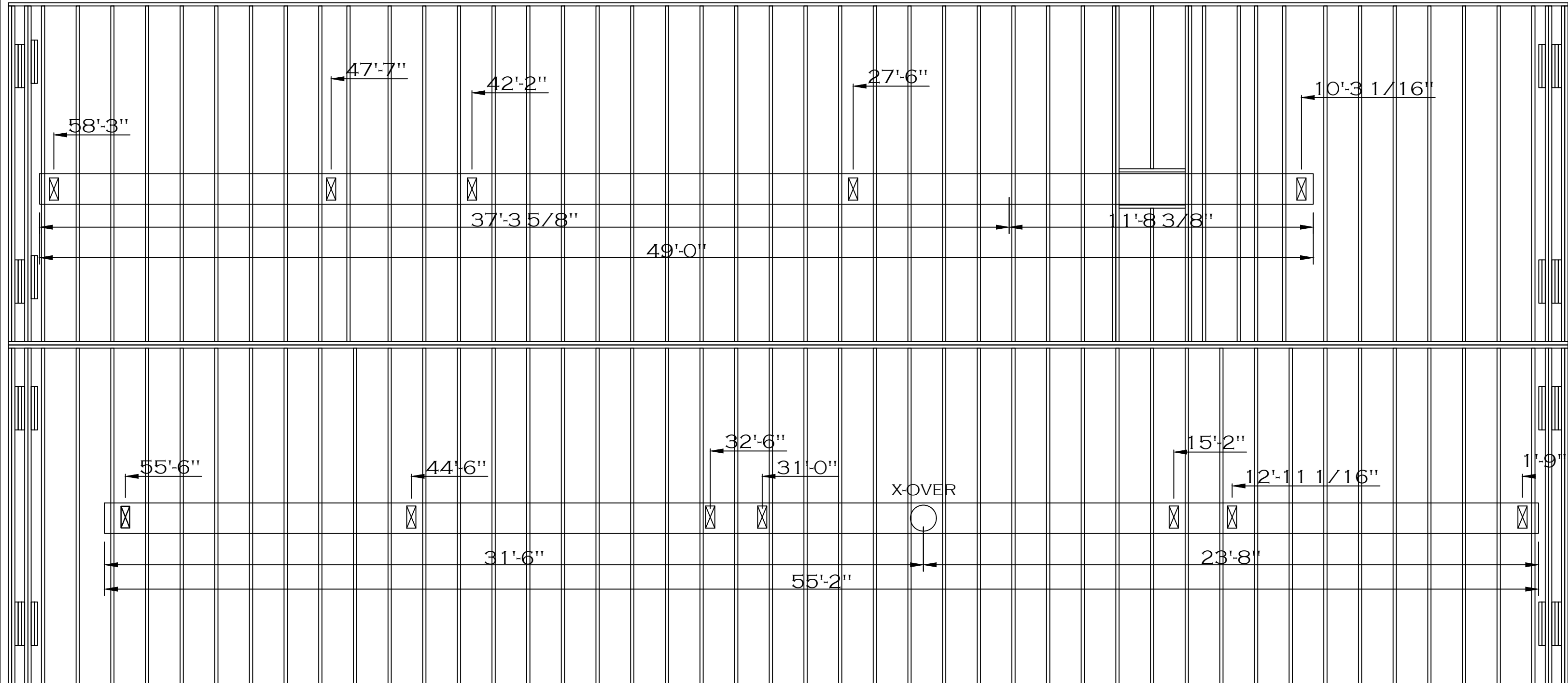
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING # 34M212
MODEL # EAG28603A
DATE: 02/15/2018 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
SERIES: EAGLE SERIES
PRODUCT DESIGNER: DANIEL C. SHELDON

STD PLAN "CONDITIONED": 1,580 FT²
REV. BY: BKR
REV. DATE: 12/08/2022



SHEET:

FJIG

FLOOR JOIST LAYOUT

Clayton Clayton - 934
 1420 Mountain Rd, Andersonville, TN 37705
 PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
 AND ASSOCIATES, INC.
 1627 SOUTH MYRTLE AVE.
 CLEARWATER, FL. 33756

DRAWING # 34M212

MODEL # EGL28603A

DATE: 06/16/2023

SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')

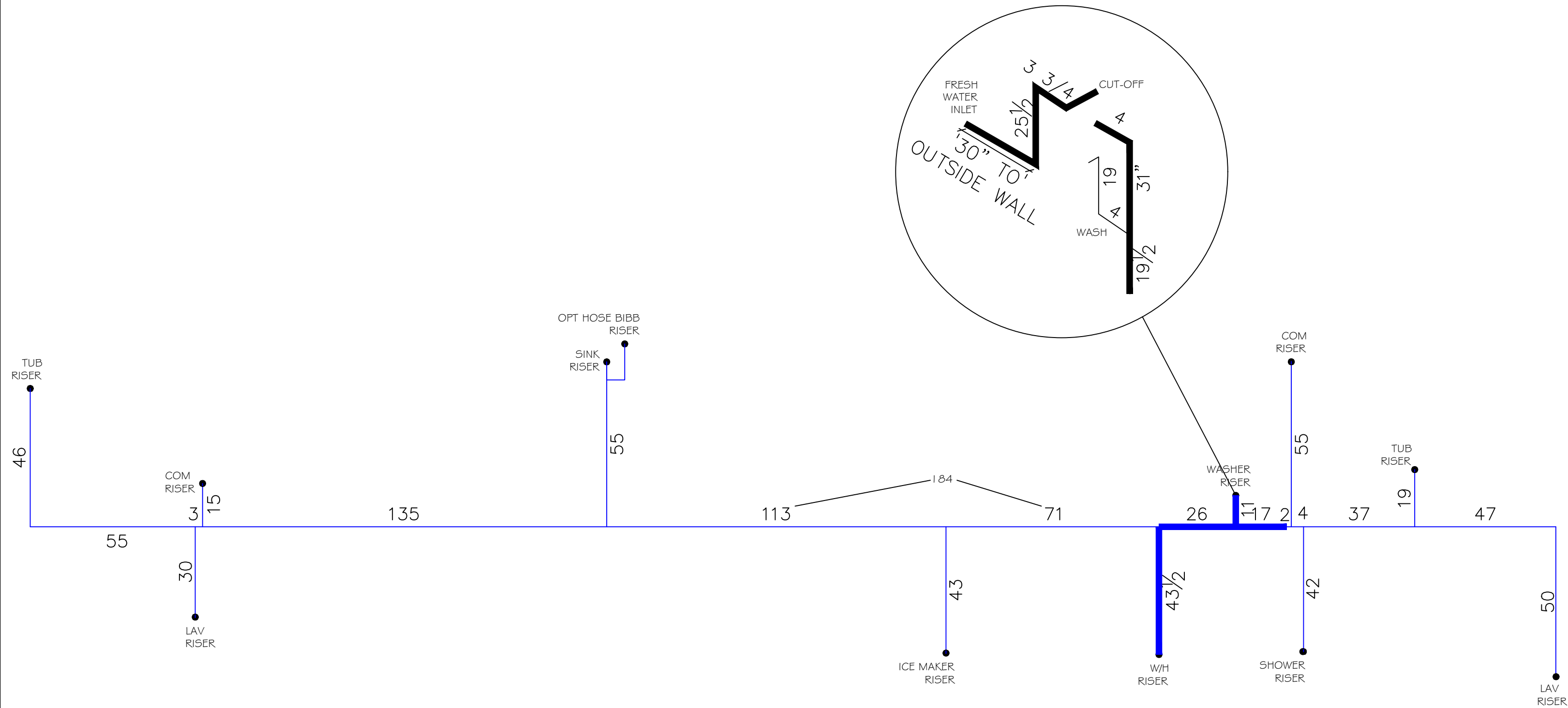
SERIES: EAGLE SERIES


PRODUCT DESIGNER: BRIAN K. RIFFEY

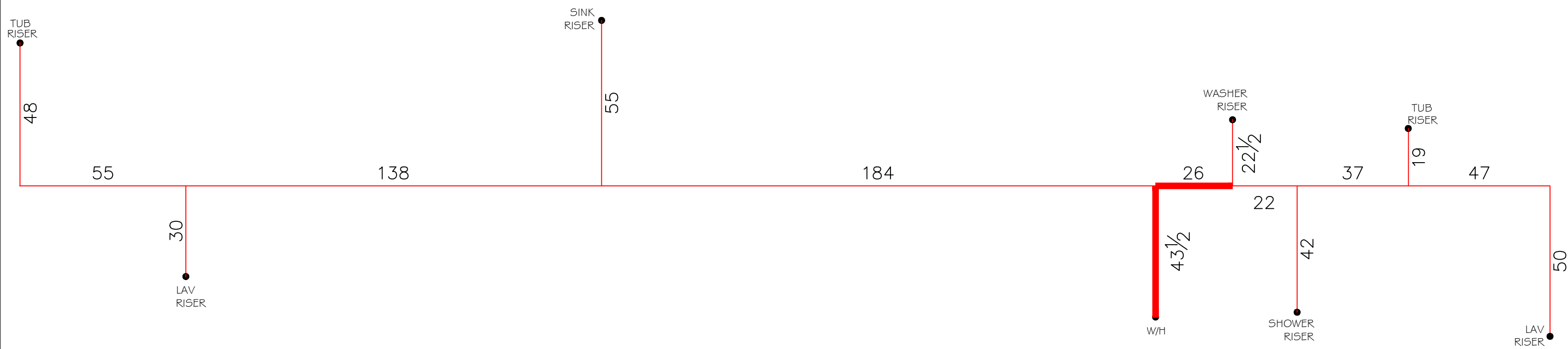
STD PLAN *CONDITIONED*: 1,580 FT²

REV. BY:

REV. DATE:



SHEET: CW	2D COLD WATER SUPPLY LINES	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M212	MODEL: THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED": 1,580 FT ²
			MODEL # EAG28603A	SERIES: EAGLE SERIES	REV. BY:
			DATE: 06/16/2023	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K RIFFEY



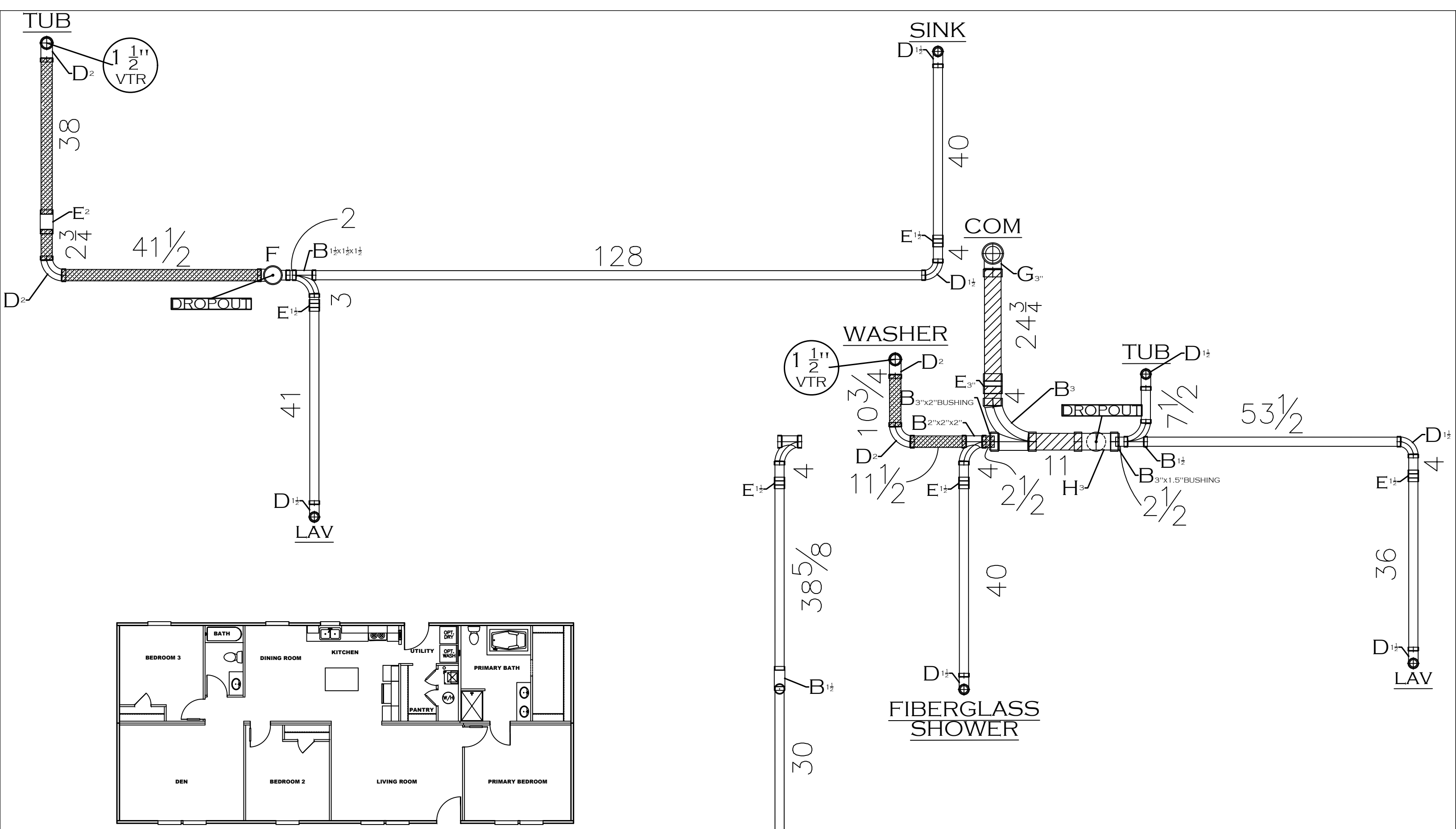
Type of system:

Trunk & Branch

Fixture Fixture 2

Trunk:	
piping: <input type="text" value="PEX CTS SDR 9"/> diameter <input type="text" value="3/4"/>	length (feet) <input type="text" value="3.625"/>
ounces/ft: 2.35	volume (oz): 8.51875
Branch:	
piping: <input type="text" value="PEX CTS SDR 9"/> diameter <input type="text" value="1/2"/>	length (feet) <input type="text" value="35.417"/>
ounces/ft: 1.18	volume (oz): 41.79171
Twig:	
piping: <input type="text"/> diameter <input type="text" value="1/2"/>	length (feet) <input type="text" value="0"/>
ounces/ft: 0	volume (oz): 0
total	
length (feet) 39.042	volume (oz): 50.31046

Fixture	Length (ft)	Volume (oz)	Volume (gal)
Fixture 1	39.042	50.31046	0.39



REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION
-	-/--/--	-			

SHEET:
DRAIN

2D DRAIN LINES

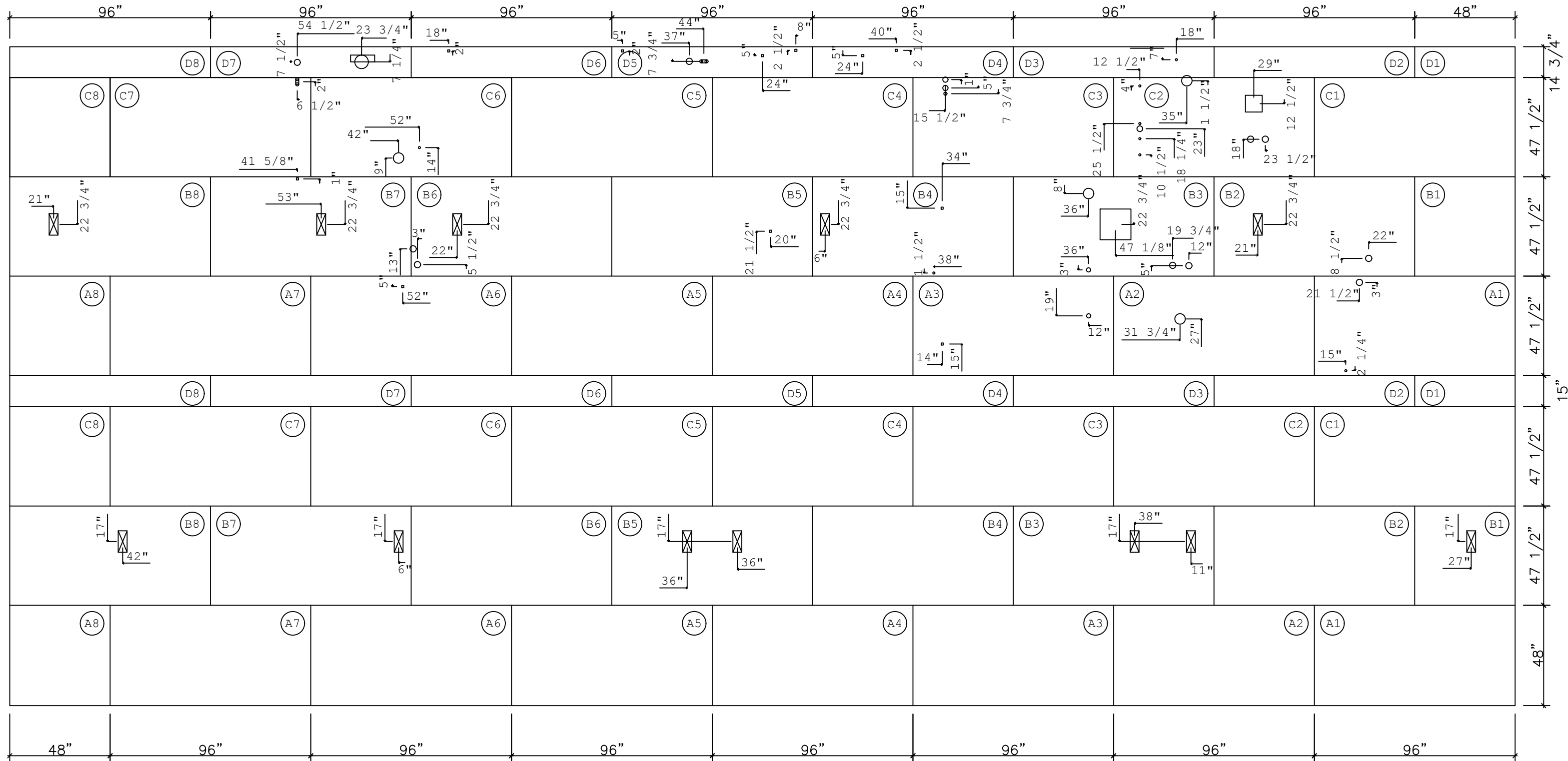
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243


HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

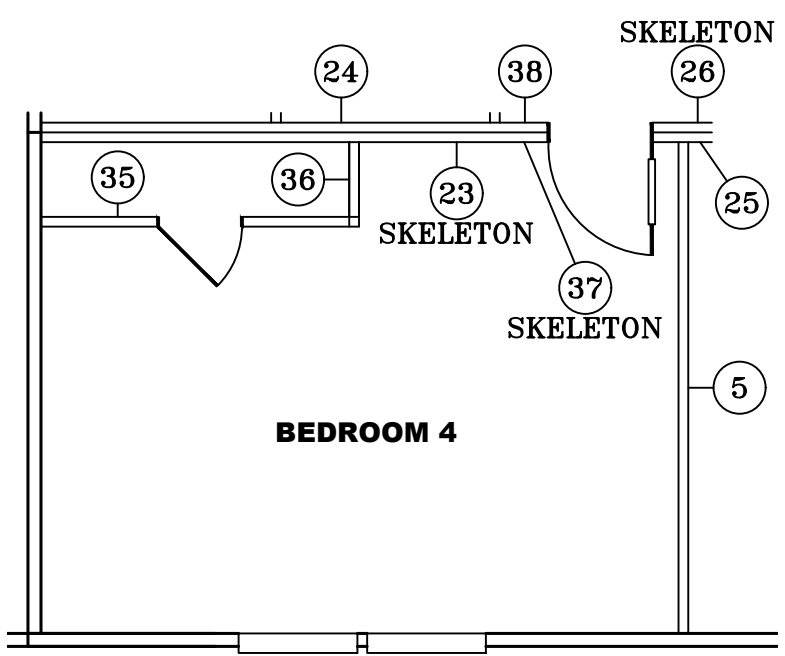
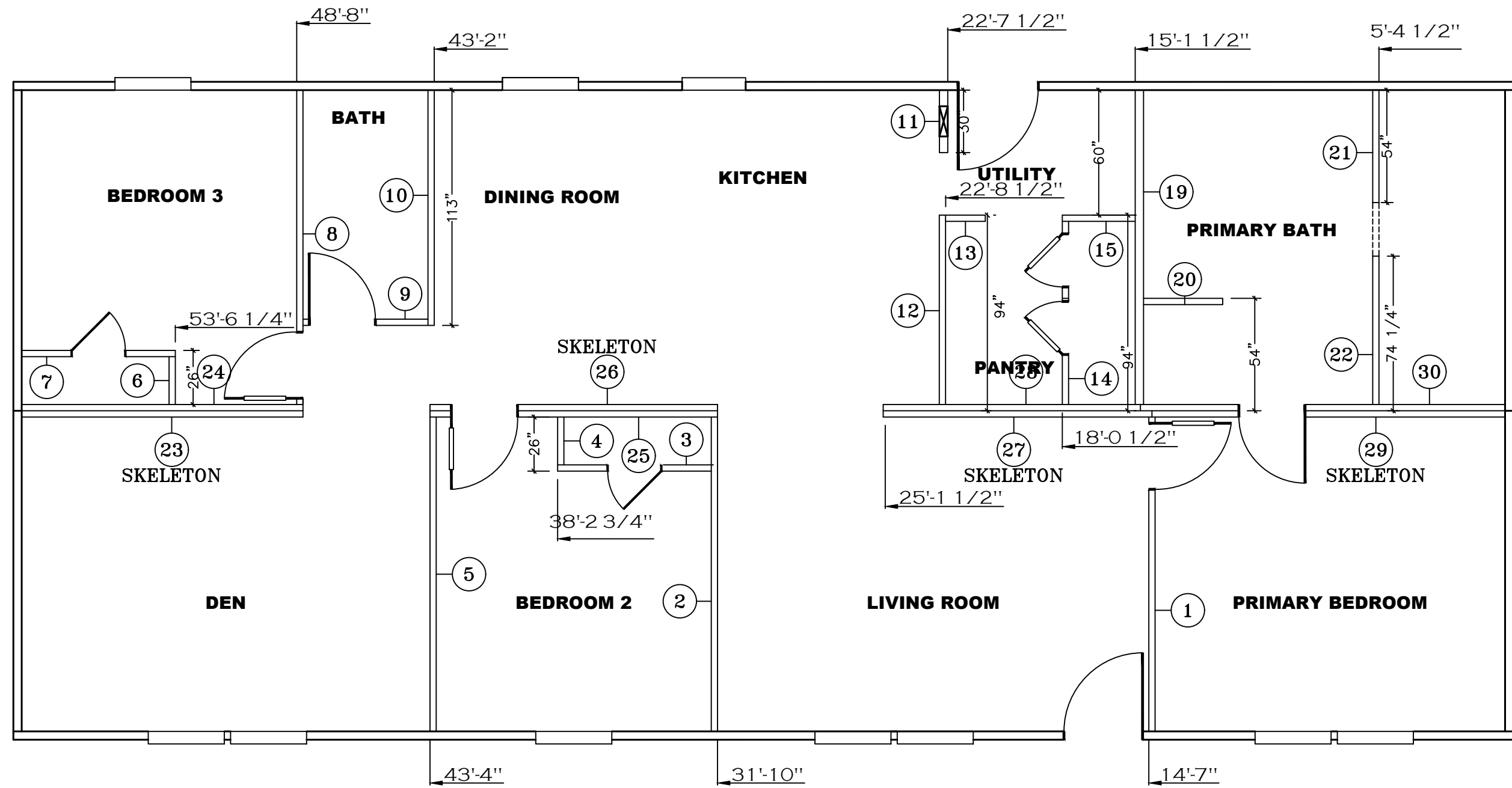
DRAWING # 34M212
MODEL # EAG28603A
DATE: 04/28/2023 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
SERIES: EAGLE SERIES
PRODUCT DESIGNER: BRIAN K. RIFFEY

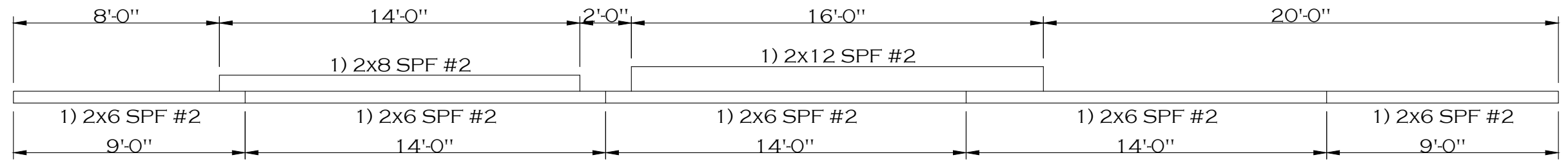
STD PLAN *CONDITIONED*:
1,580 FT²
REV. BY: BKR
REV. DATE:



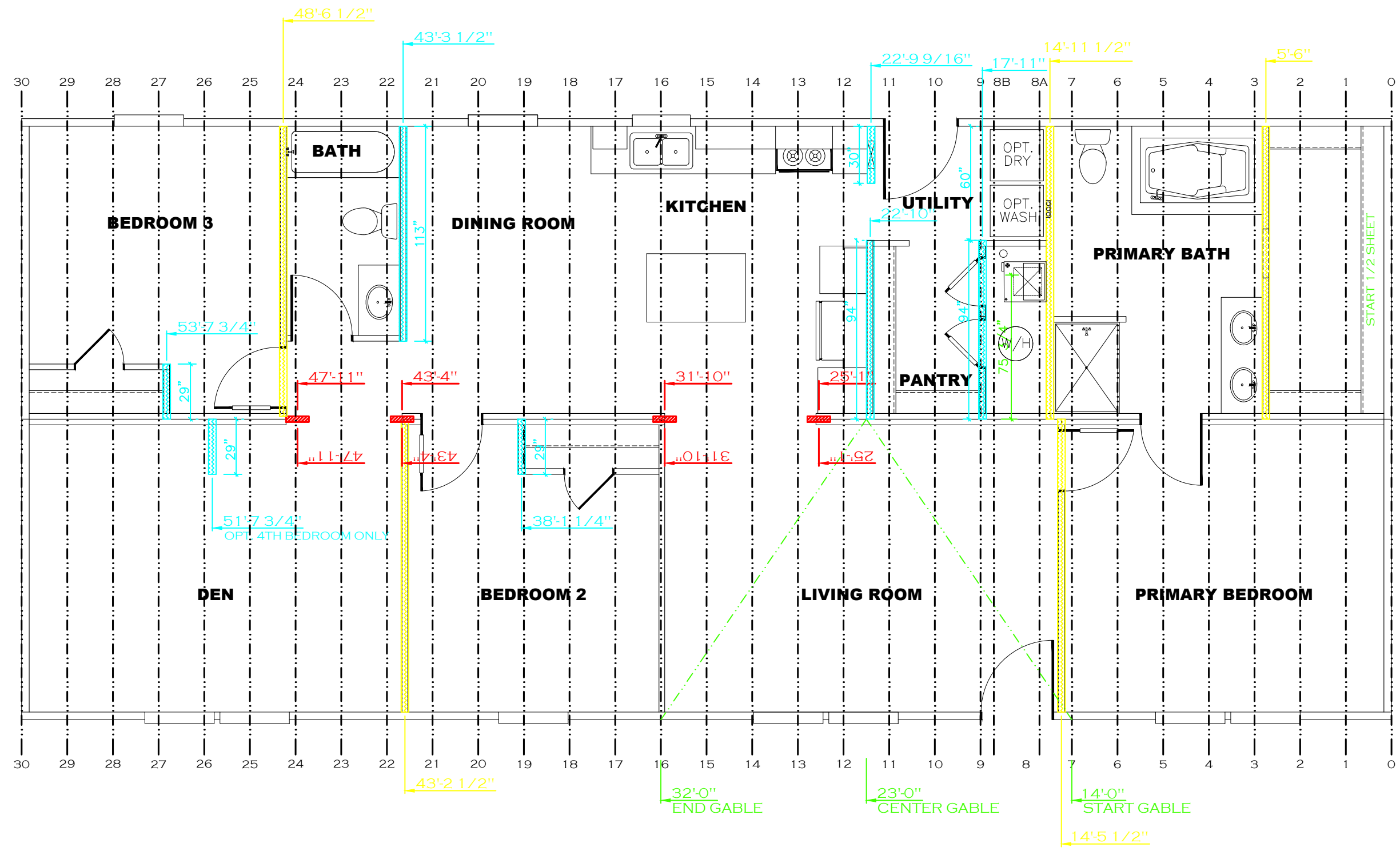
SHEET: DECK	FLOOR DECKING LAYOUT	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M212	MODEL: THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED": 1,580 FT ²
				MODEL # EAG28603A	SERIES: EAGLE SERIES	REV. BY:
				DATE: 04/28/2023	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY



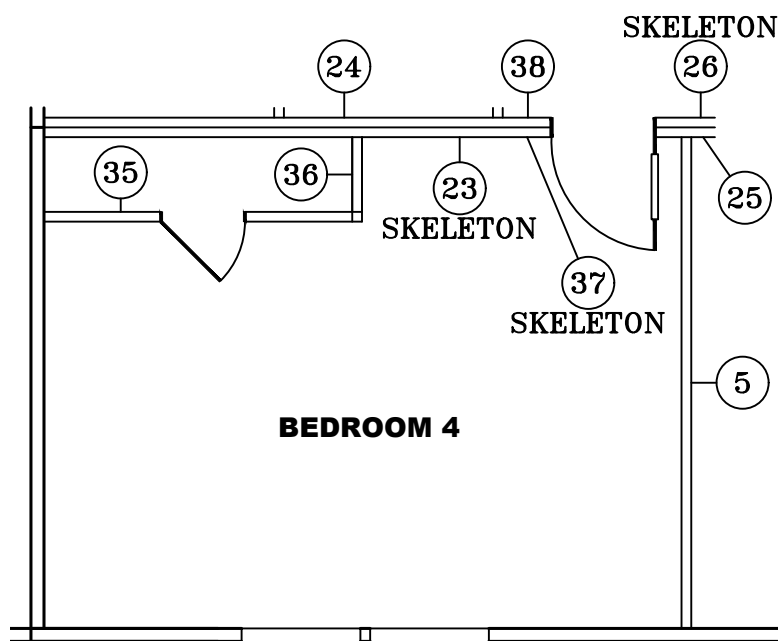
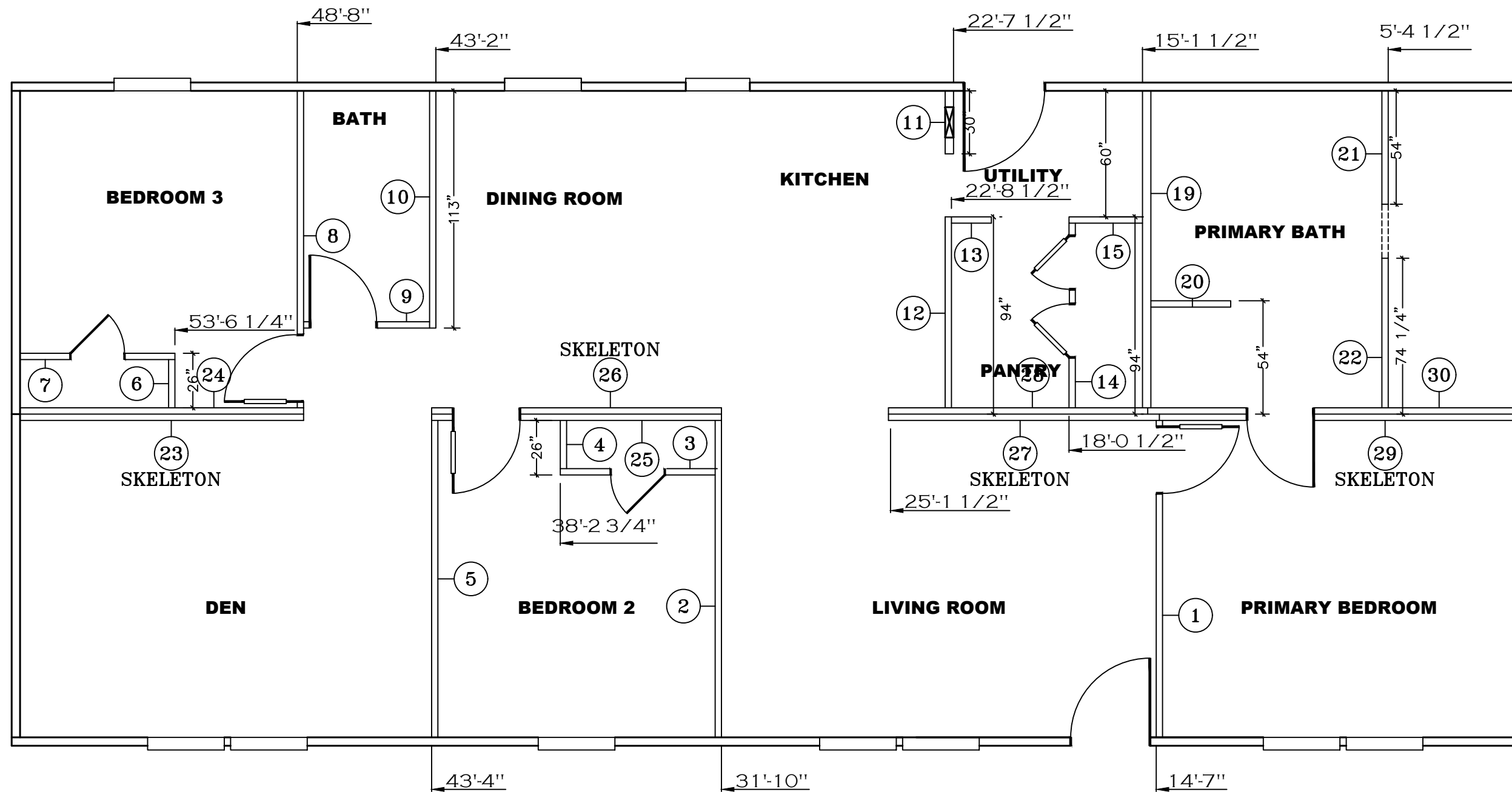
SHEET:	BASE	WALL SET	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M212 MODEL # EGL28603A DATE: 06/16/2023	SCALE: N.T.S.	MODEL: THE EAGLE 60 (28'x60') SERIES: EAGLE SERIES PRODUCT DESIGNER: BRIAN K. RIFFEY	STD PLAN "CONDITIONED": 1,580 FT ² REV. BY: REV. DATE:
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HITCH END



SHEET: CJIG	RIFGEBEAM - RAFTER PLAN	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING #: 34M212	MODEL: THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED": 1,580 FT ²
				MODEL #: EAG28603A	SERIES: EAGLE SERIES	REV. BY:
			DATE: 05/05/2023	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY	REV. DATE:



SHEET:

BASE

WALL SET

Clayton Clayton - 934
 1420 Mountain Rd, Andersonville, TN 37705
 PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
 AND ASSOCIATES, INC.
 1627 SOUTH MYRTLE AVE.
 CLEARWATER, FL. 33756

DRAWING # 34M174

MODEL # EGL28603A

DATE: 02/15/2018

SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')

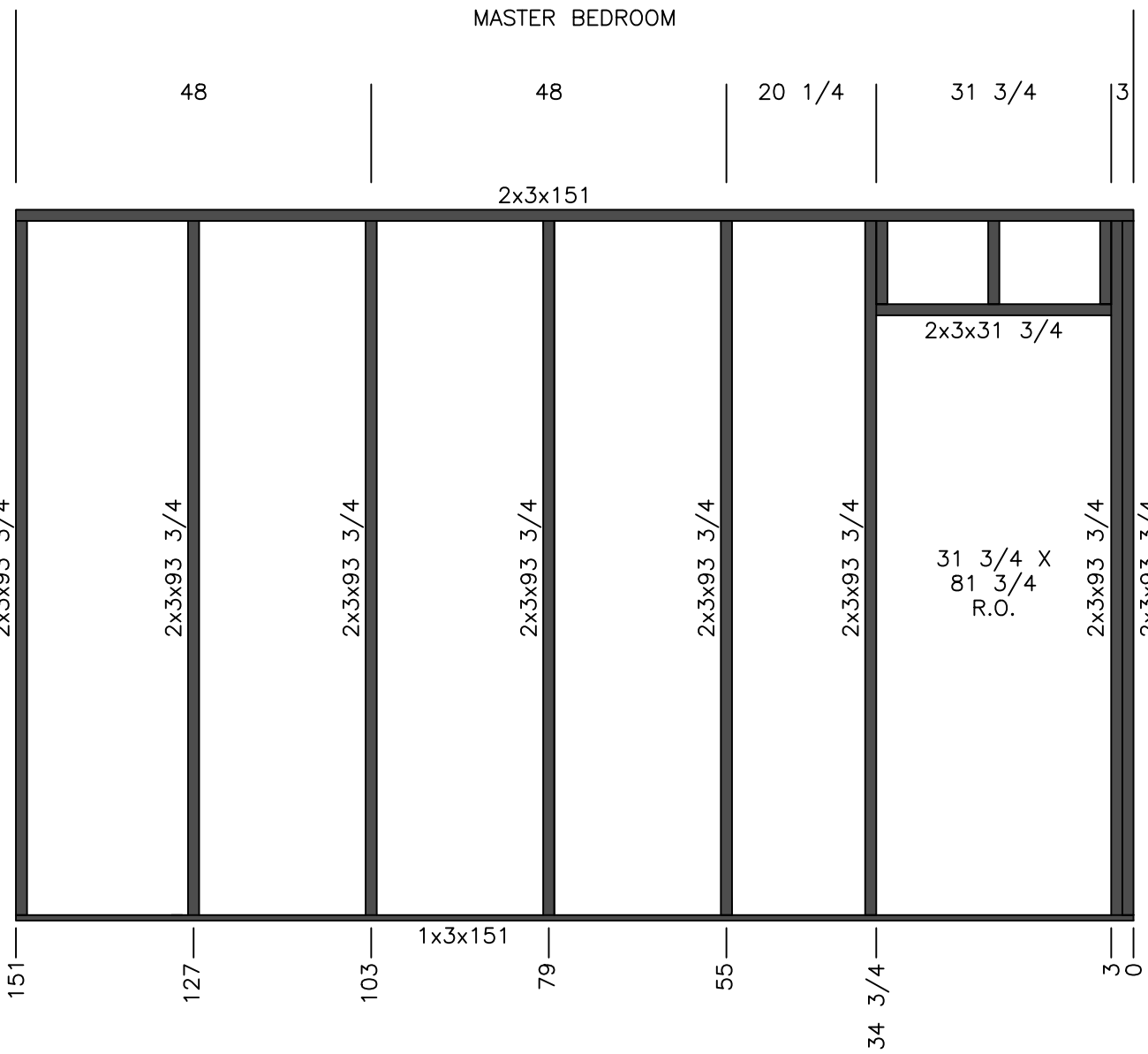
SERIES: EAGLE SERIES

PRODUCT DESIGNER: DANIEL C. SHELDON

STD PLAN "CONDITIONED": 1,580 FT²

REV. BY: DCS

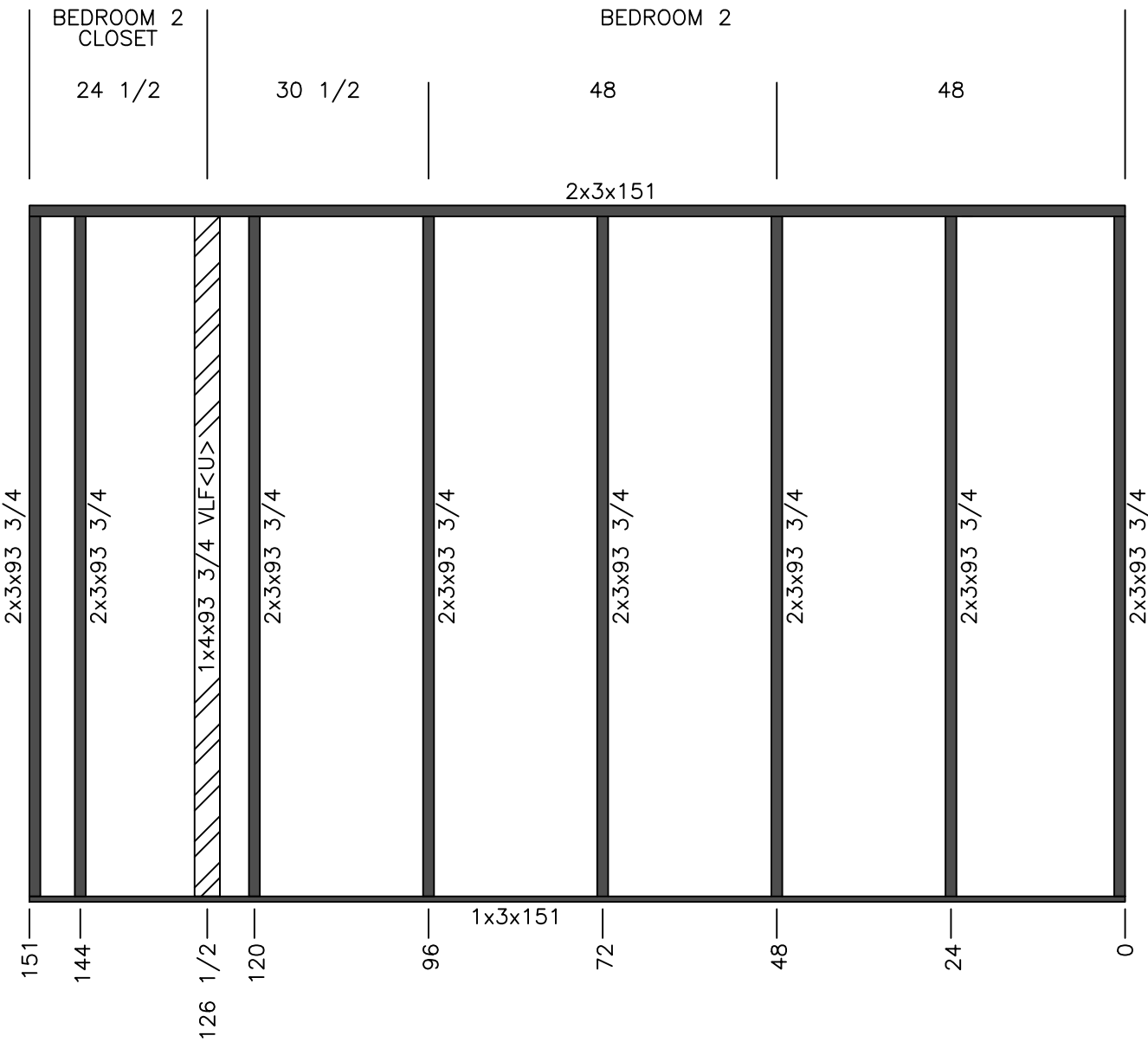
REV. DATE: 11/27/2019




CUTLIST		
QTY	SIZE	TYPE
1	151	1x3
1	151	2x3
8	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3

STUD SPACING 24"

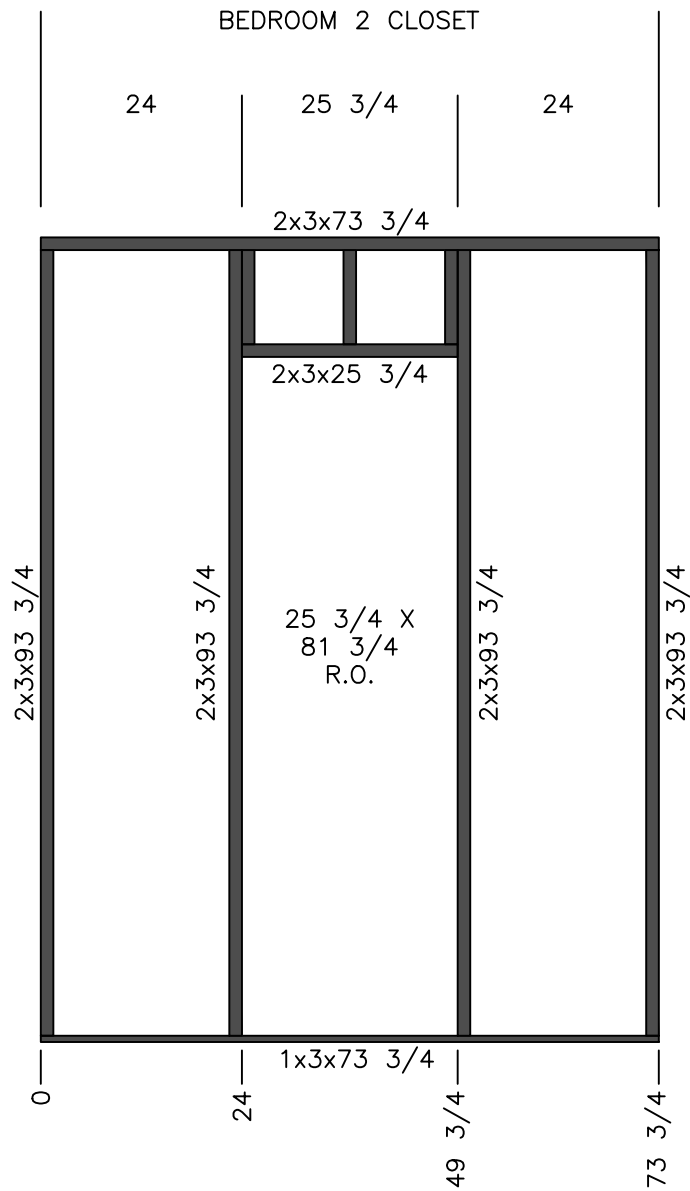
	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	34M174
WALL 1		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	151	1x3
1	151	2x3
8	93 3/4	2x3
1	93 3/4 VLF<U>	1x4

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 2		Rev:

STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	73 3/4	1x3
1	73 3/4	2x3
4	93 3/4	2x3
3	11 1/4	2x3
1	25 3/4	2x3



Model #: EAG28603A
 Date: 01/18/2018 Scale: N.T.S.

Drawing #: 34M174

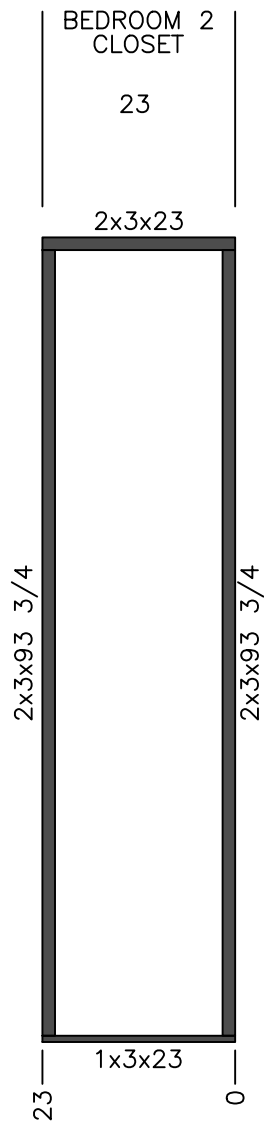
Product Designer:
 D.C.S.

Model:
 28' x 60' EAGLE

WALL 3


Rev:

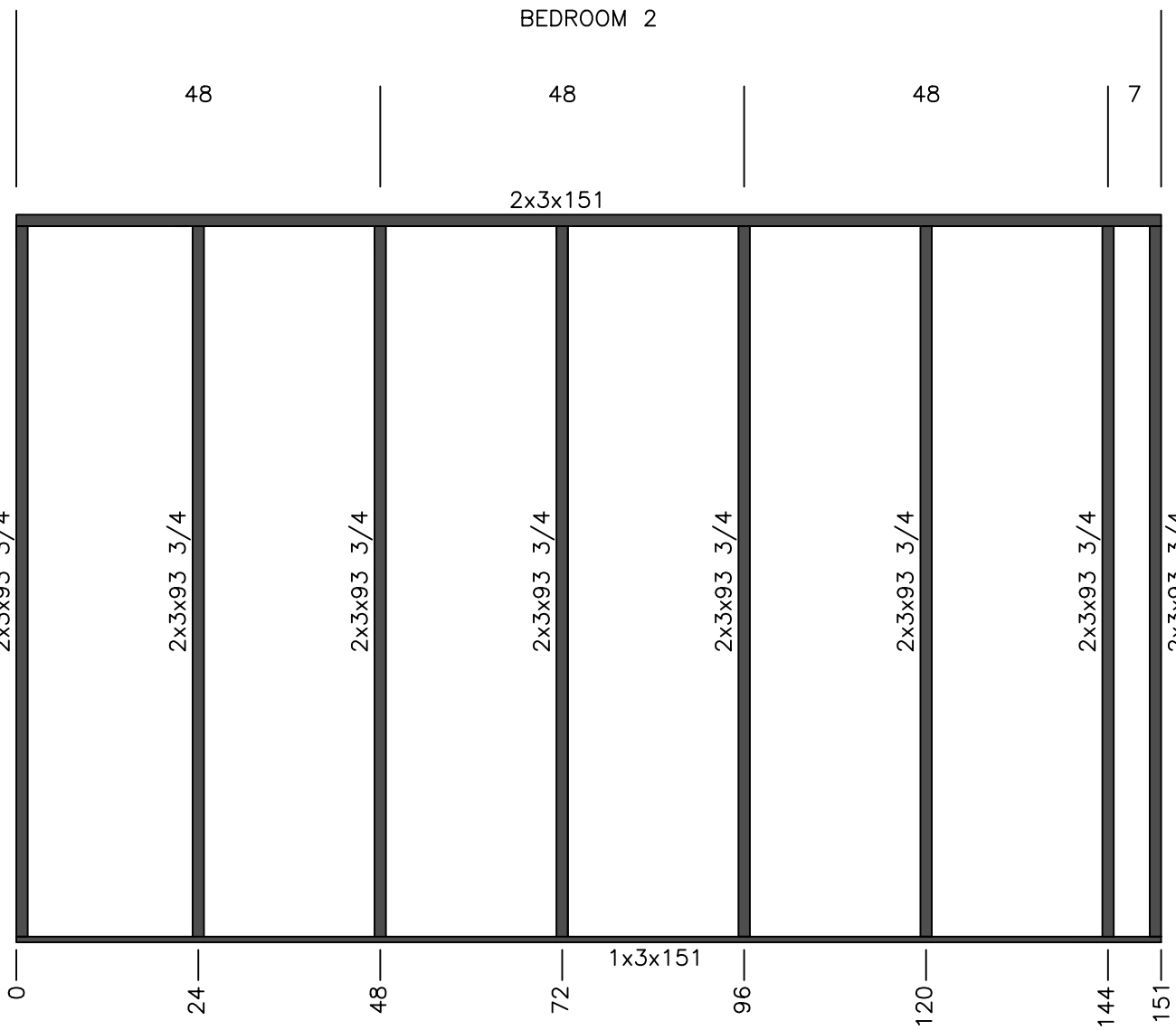
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	23	1x3
1	23	2x3
2	93 3/4	2x3


STUD SPACING 24"

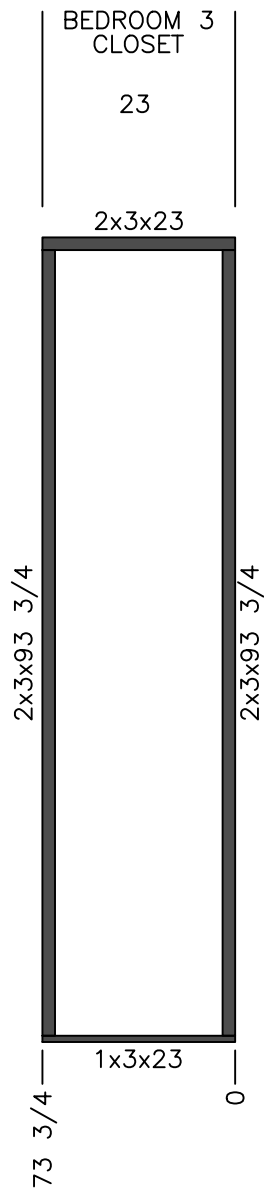
	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 4		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	151	1x3
1	151	2x3
8	93 3/4	2x3

STUD SPACING 24"

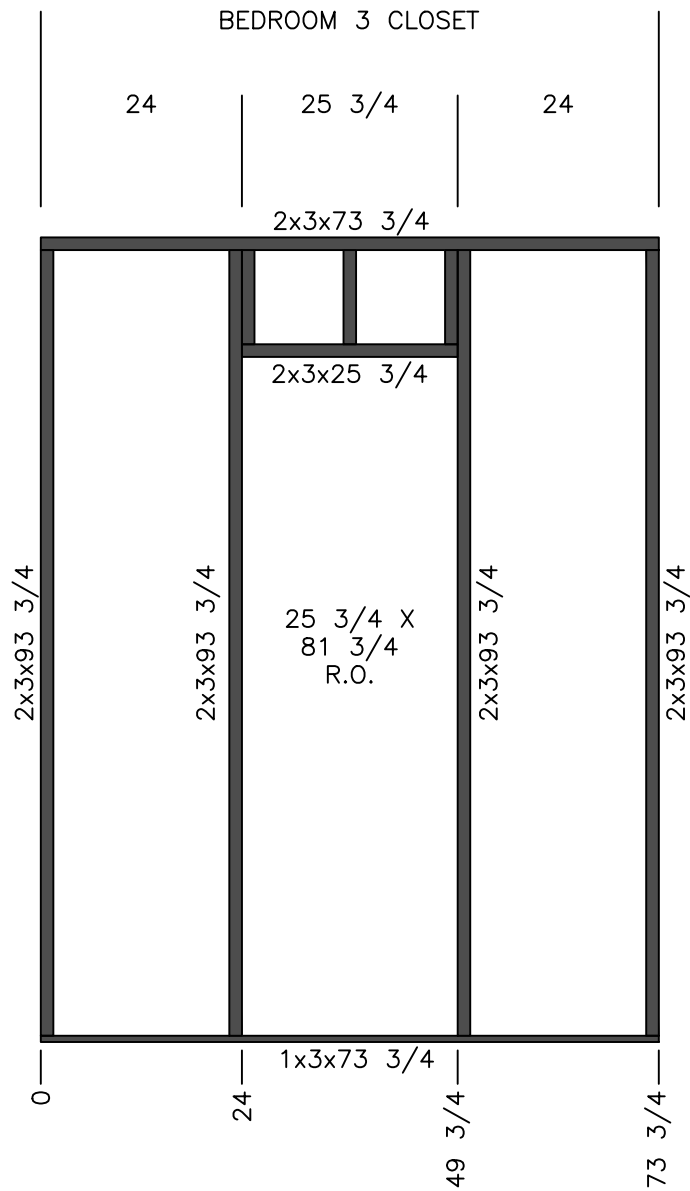
	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 5		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	23	1x3
1	23	2x3
2	93 3/4	2x3

STUD SPACING 24"

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 6		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	73 3/4	1x3
1	73 3/4	2x3
4	93 3/4	2x3
3	11 1/4	2x3
1	25 3/4	2x3



Model #: EAG28603A
 Date: 01/18/2018 Scale: N.T.S.

Drawing #: 34M174

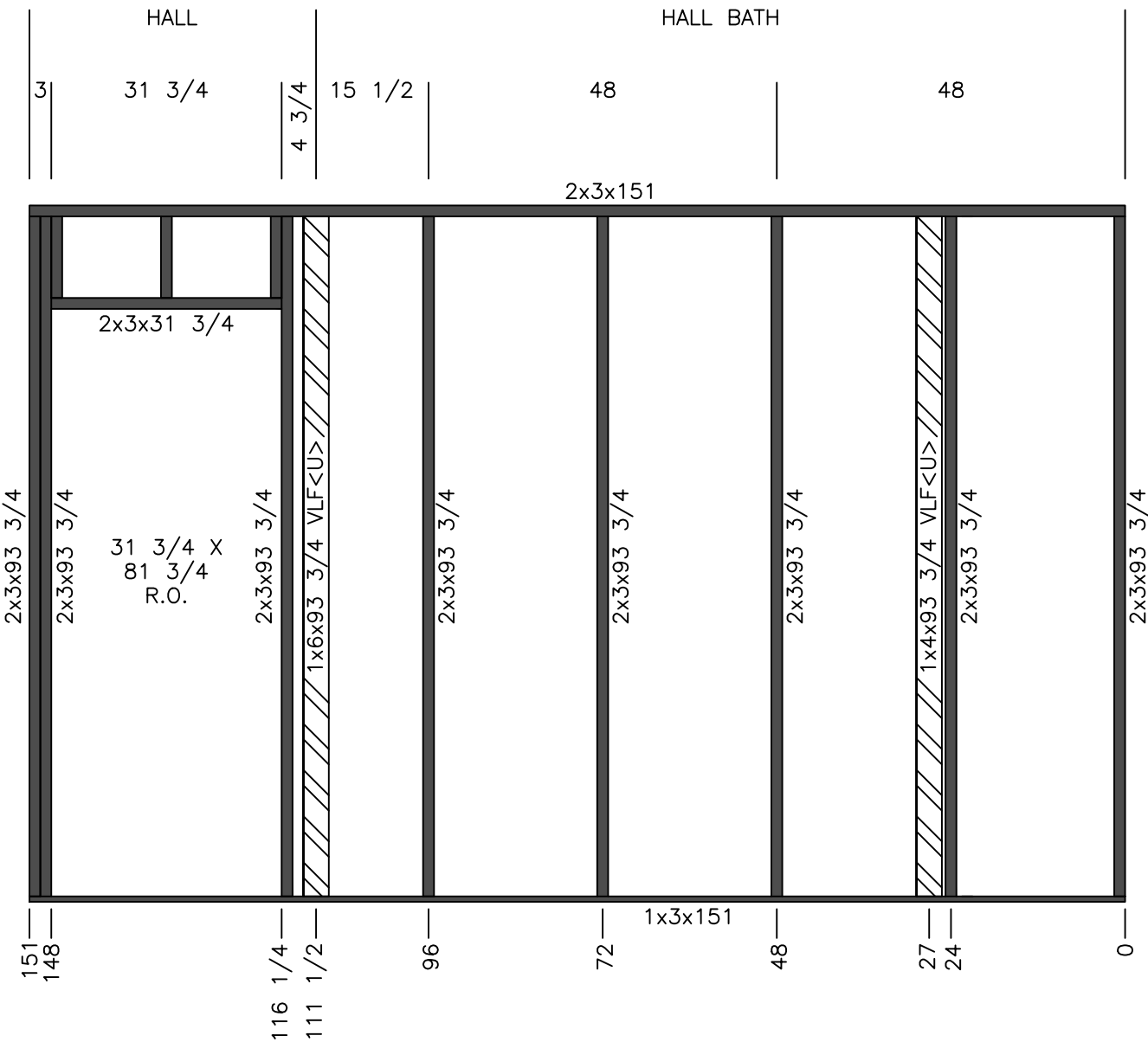
Product Designer:
 D.C.S.

Model:
 28' x 60' EAGLE

WALL 7

Rev:

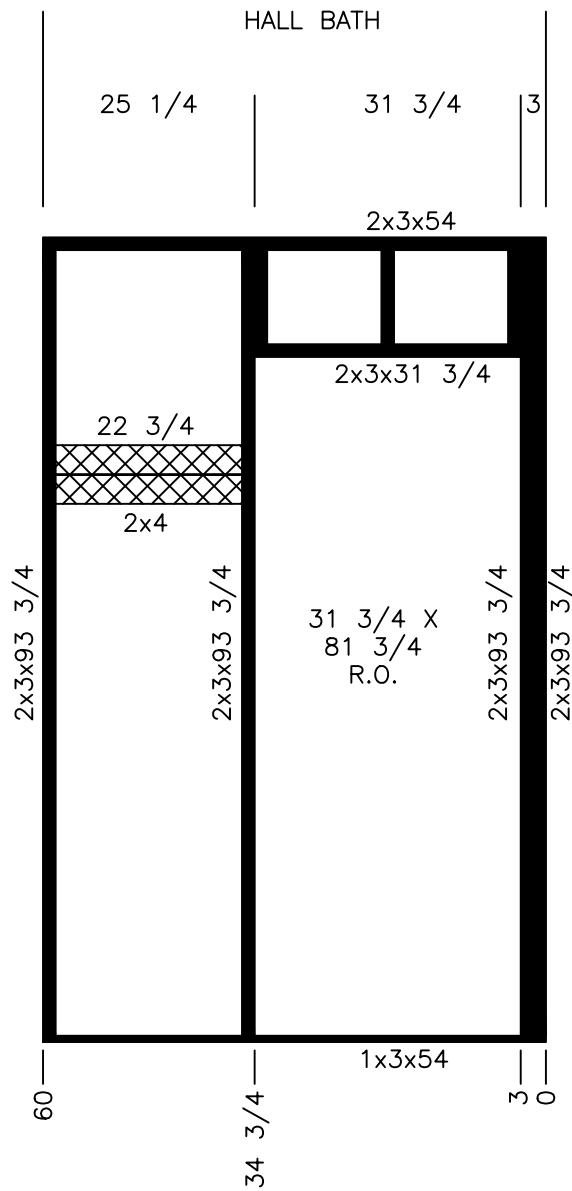
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	151	1x3
1	151	2x3
8	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3
2	93 3/4 VLF<U>	1x4

STUD SPACING 24"

	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	34M174
WALL 8		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	54	1x3
1	54	2x3
4	93 3/4	2x3
3	11 1/4	2x3
1	25 3/4	2x3



Model #: EAG28603A
 Date: 01/18/2018 Scale: N.T.S.

Drawing #: 34M174

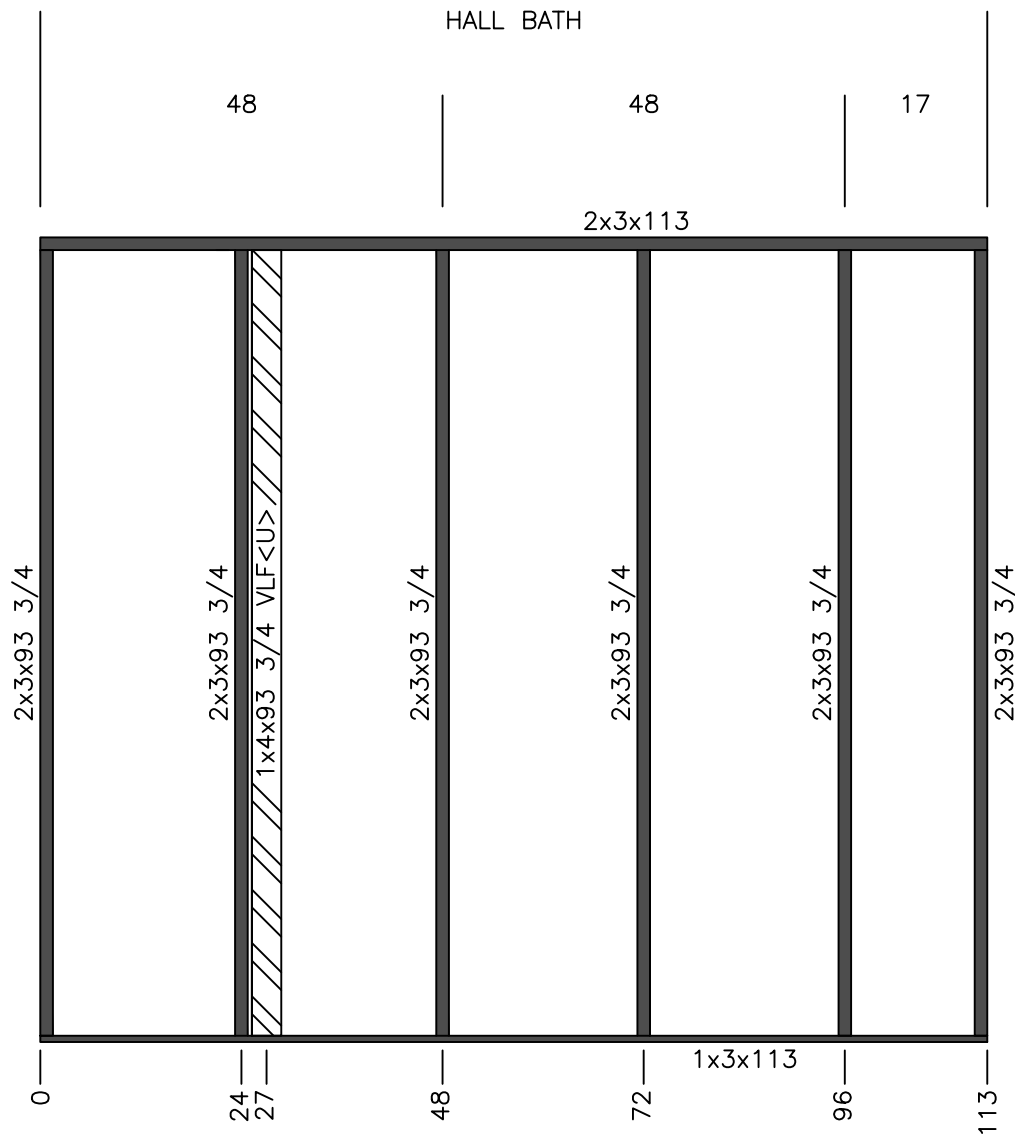
Product Designer:
D.C.S.

Model: 28' x 60' EAGLE

WALL 9

Rev:

STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	113	1x3
1	113	2x3
6	93 3/4	2x3
1	93 3/4 VLF<U>	1x4



Model #: EAG28603A
 Date: 01/18/2018 Scale: N.T.S.

Drawing #: 34M174

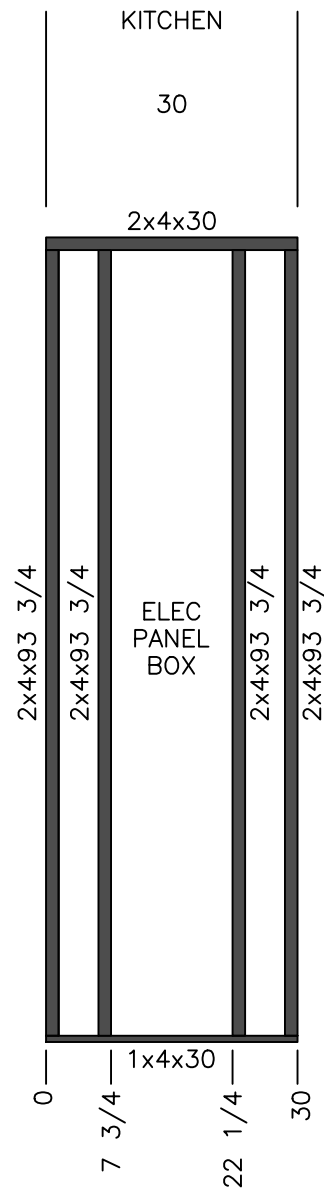
Product Designer:
D.C.S.

Model:
28' x 60' EAGLE


WALL 10

Rev:

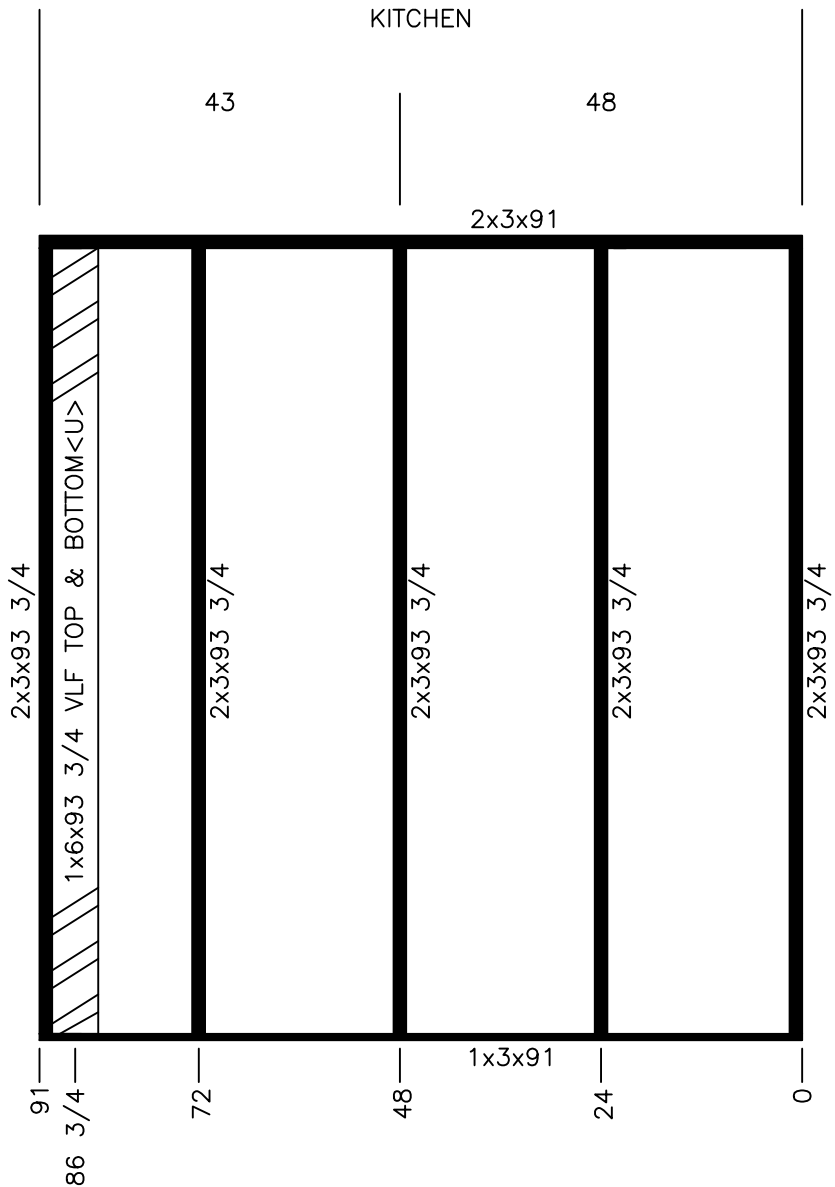
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	30	1x4
1	30	2x4
4	93 3/4	2x4

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 11		Rev:

STUD SPACING 24"



KITCHEN

43

48

2x3x91

2x3x93 3/4

2x3x93 3/4

2x3x93 3/4

2x3x93 3/4

2x3x93 3/4

1x6x93 3/4 VLF TOP & BOTTOM<U>

1x3x91

91
86 3/4

72

48

24

0

CUTLIST

QTY	SIZE	TYPE
1	91	1x3
1	91	2x3
5	93 3/4	2x3
1	93 3/4 VLF<D>	1x6

STUD SPACING 24"



Model #: EGL28603A

Drawing #:

Date: 01/18/2018

Scale: N.T.S.

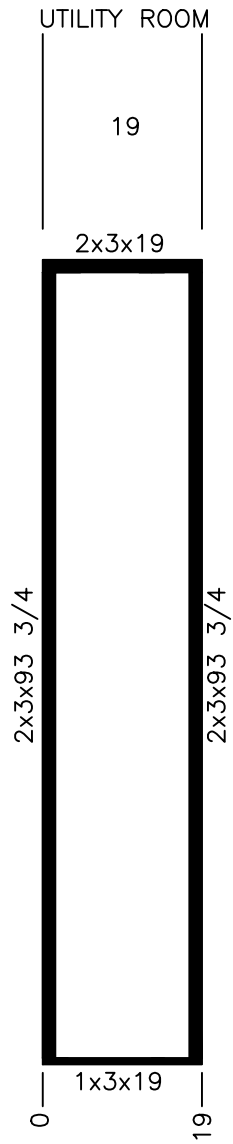
34M174

Product Designer:
D.C.S.

Model:
28' x 60' Eagle


WALL 12

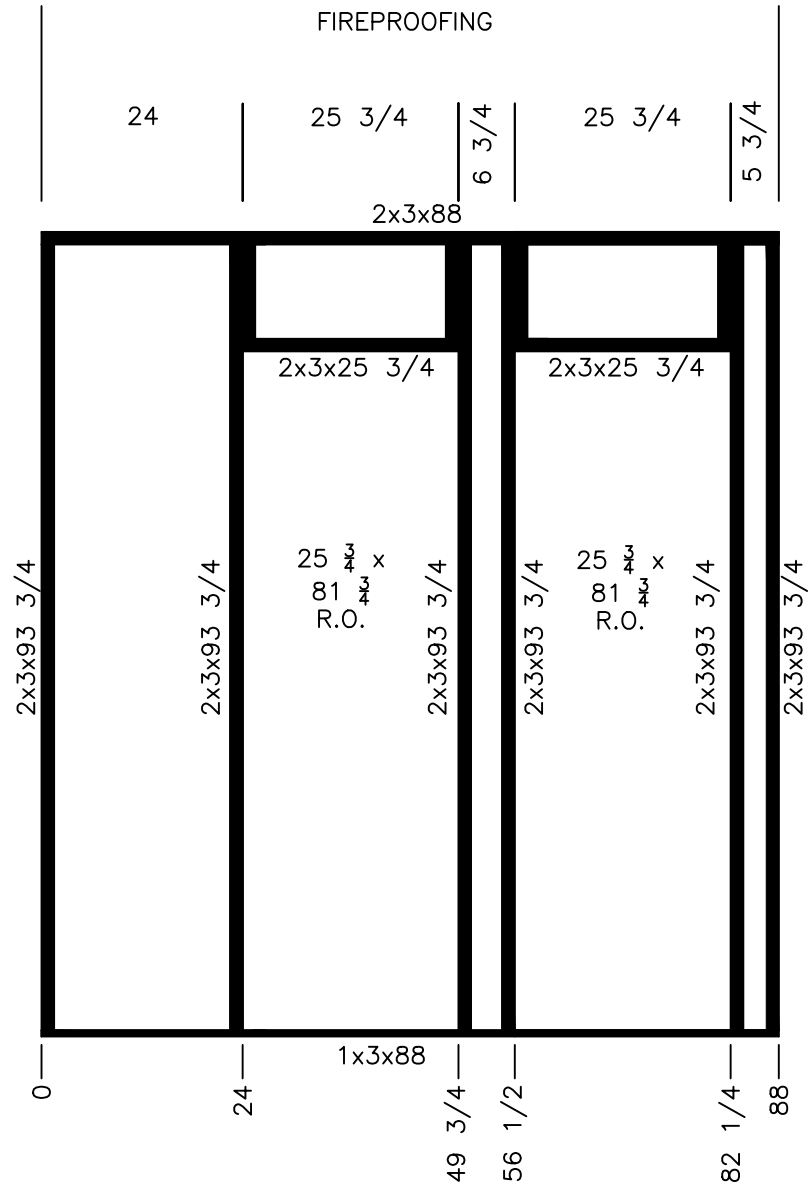
Rev:



CUTLIST		
QTY	SIZE	TYPE
1	19	1x3
1	19	2x3
2	93 3/4	2x3

STUD SPACING 24"

	Model #: EGL28603A	Drawing #: 34M174
	Date: 04/26/2023 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' Eagle	
WALL 13		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	88	1x3
1	88	2x3
6	93 3/4	2x3

STUD SPACING 24"

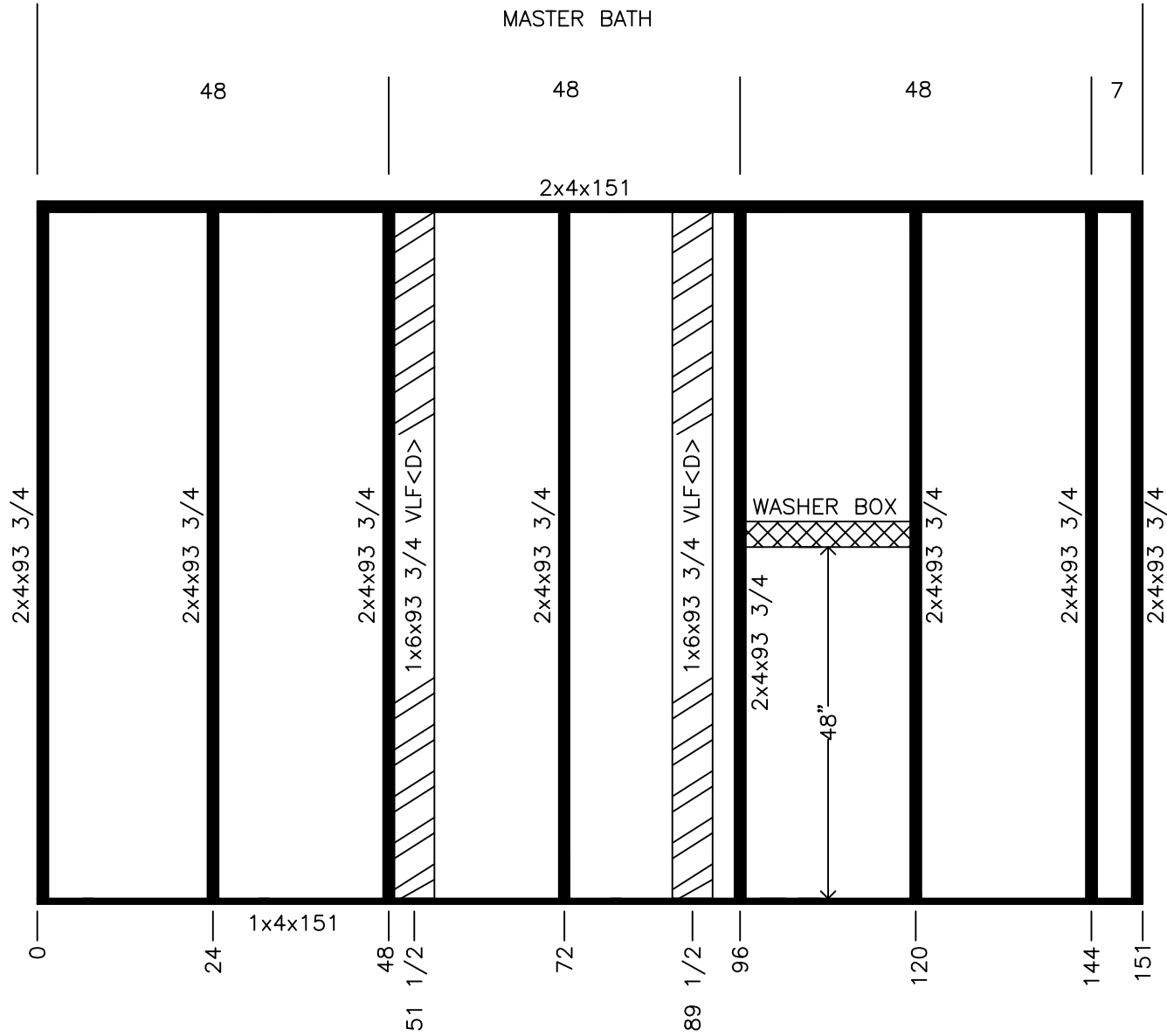
Clayton HOMES	Model #: EGL28603A	Drawing #:
	Date: 04/26/2023 Scale: N.T.S.	34M174
Product Designer: D.C.S.	Model: 28' x 60' Eagle	
WALL 14		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	35	1x3
1	35	2x3
3	93 3/4	2x3


Clayton HOMES	Model #: EGL28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' Eagle	
WALL 15		Rev:

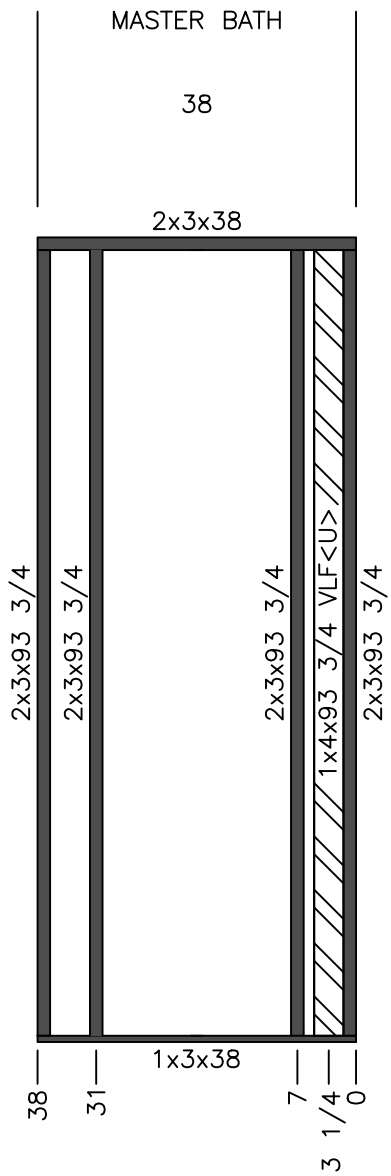
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	151	1x4
1	151	2x4
8	93 3/4	2x4
2	93 3/4 VLF<D>	1x6

STUD SPACING 24"

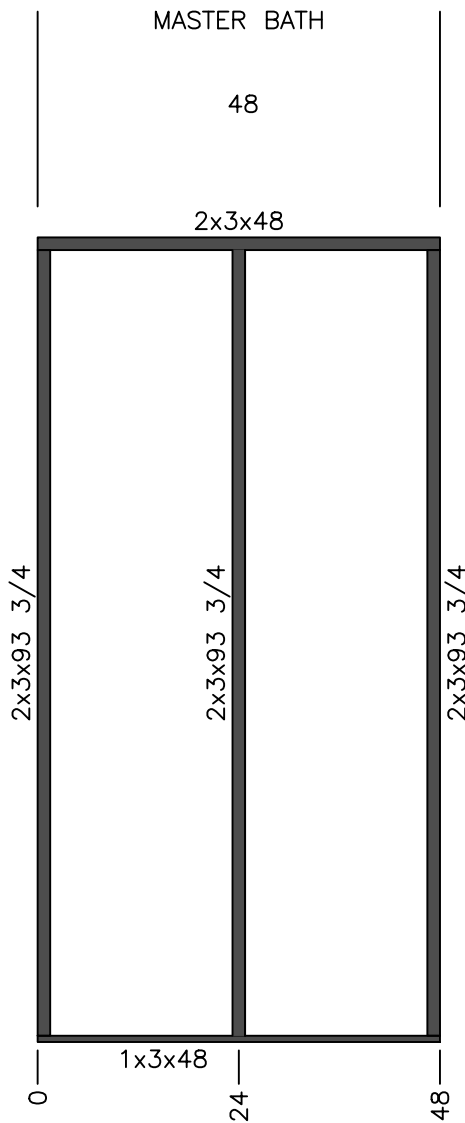
	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 19		Rev: 4/28/2023




CUTLIST		
QTY	SIZE	TYPE
1	38	1x3
1	38	2x3
4	93 3/4	2x3
1	93 3/4 VLF<U>	1x4

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 20		Rev:

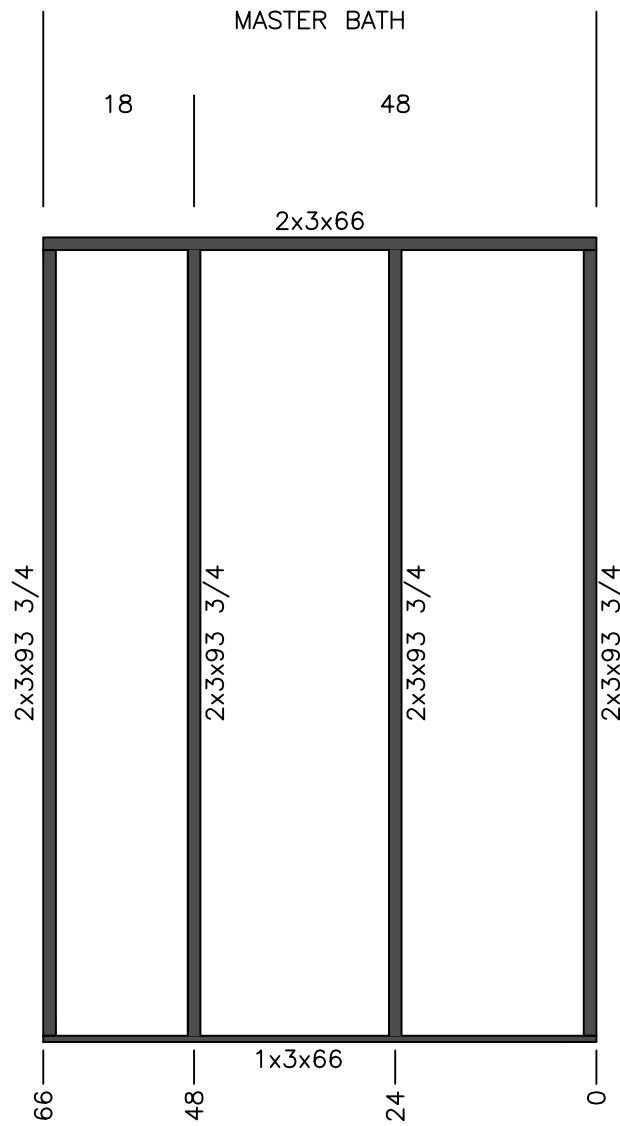
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	48	1x3
1	48	2x3
3	93 3/4	2x3


	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 21		Rev:

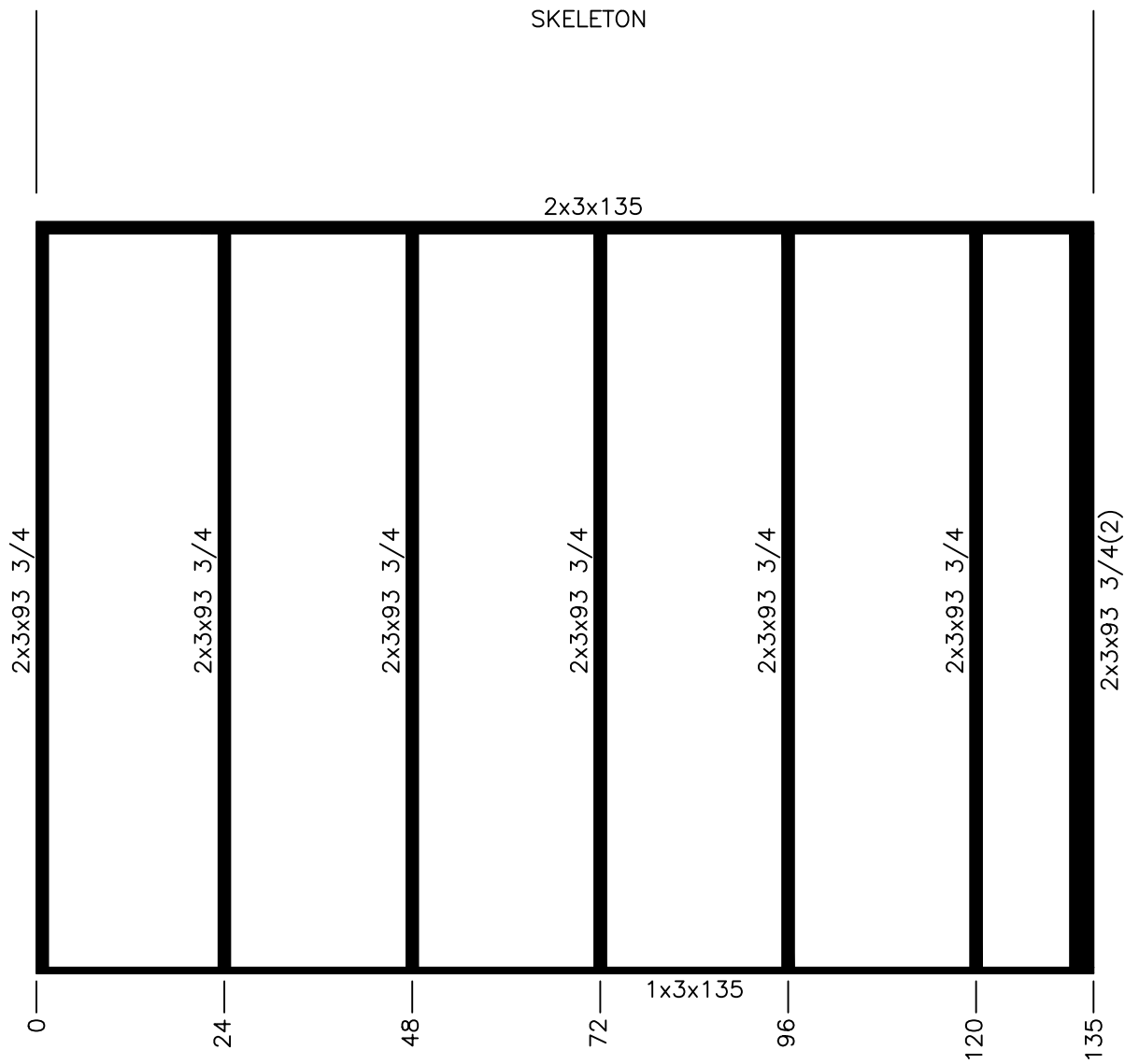
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	66	1x3
1	66	2x3
4	93 3/4	2x3

STUD SPACING 24"

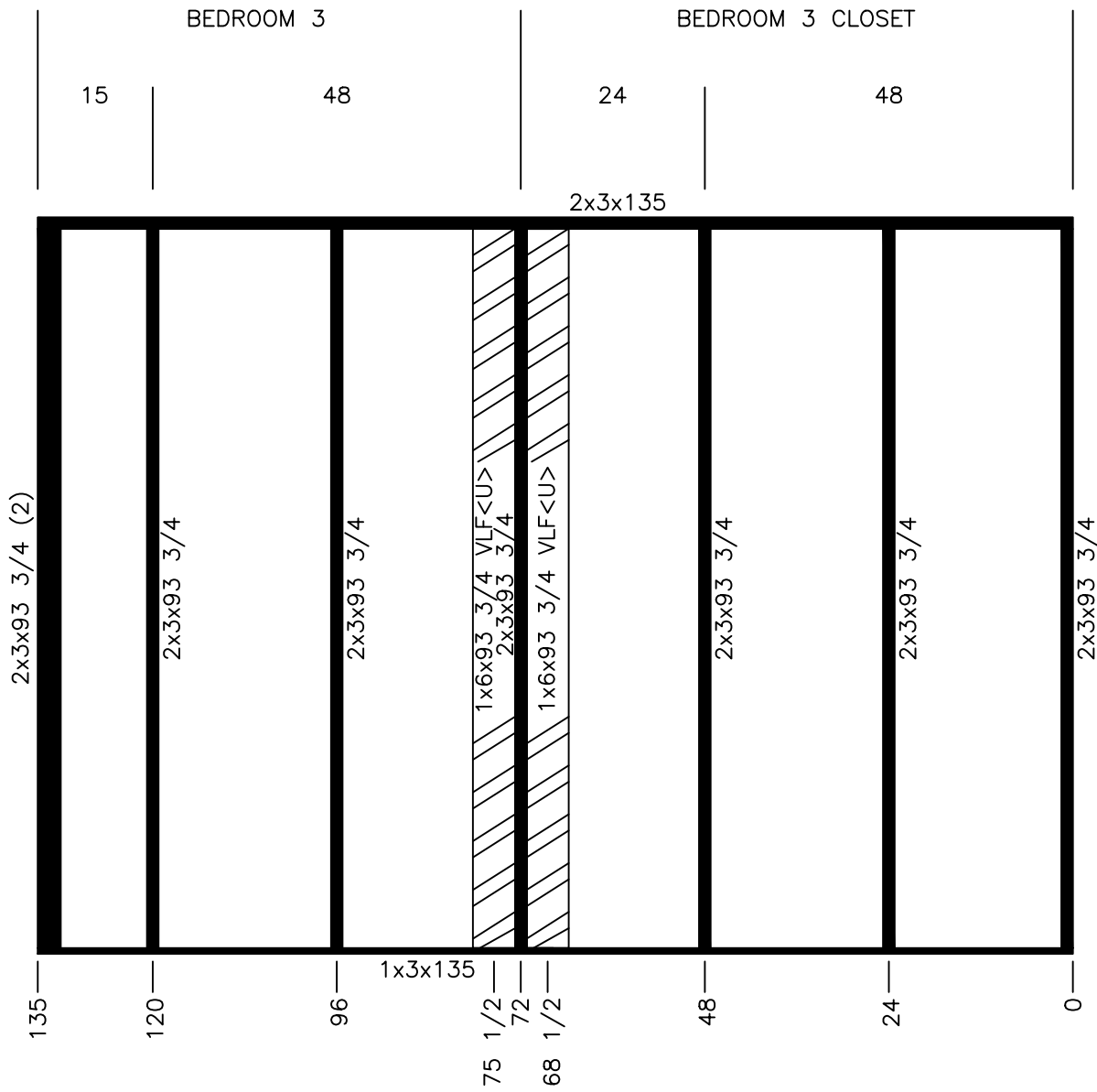
	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018 Scale: N.T.S.	34M174
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 22		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	141	1x3
1	141	2x3
8	93 3/4	2x3

STUD SPACING 24"

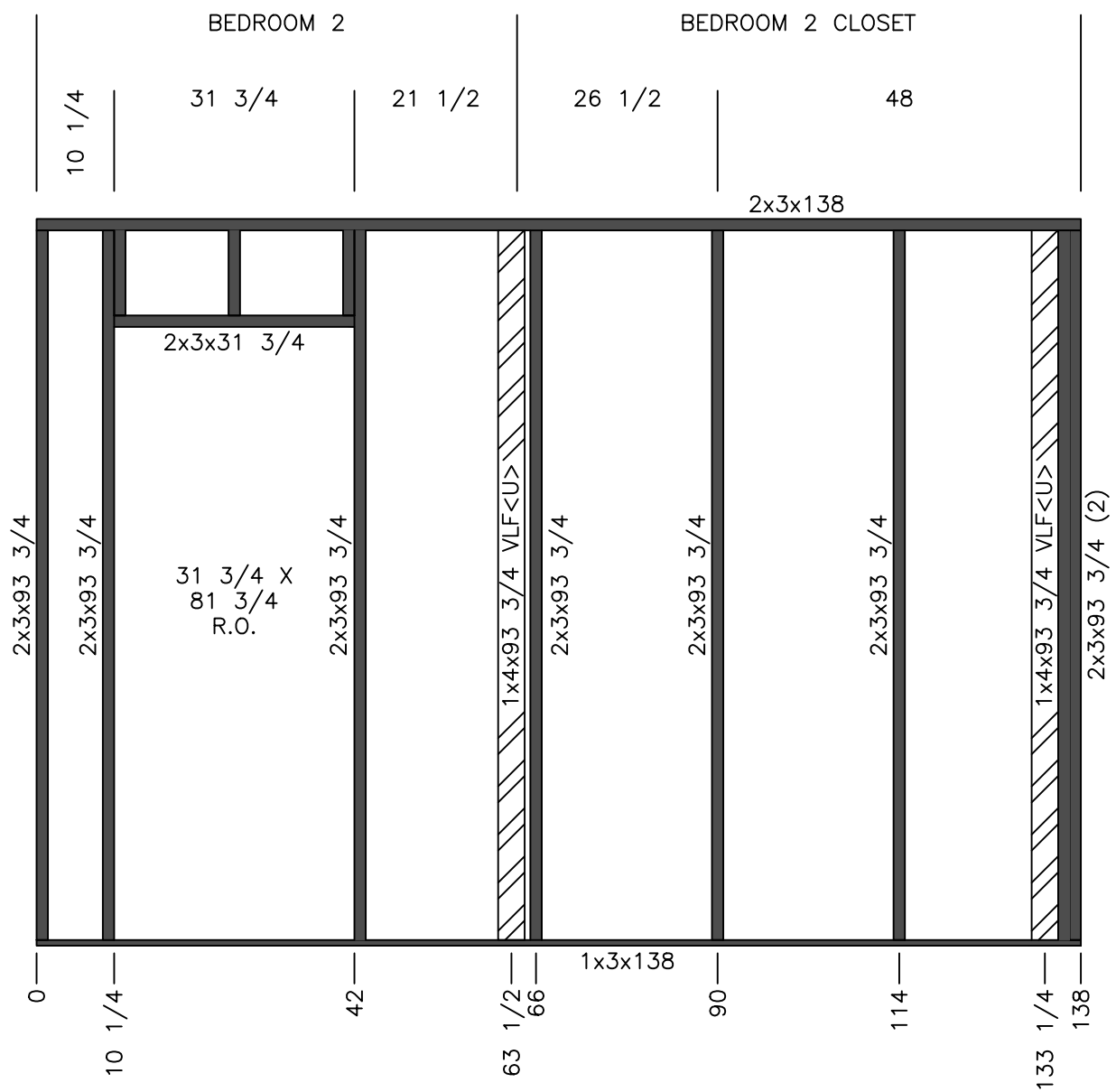
	Model #: EAG28603A		Drawing #: 34M174
	Date: 01/18/2018	Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE		Rev:
WALL 23			



CUTLIST		
QTY	SIZE	TYPE
1	141	1x3
1	141	2x3
8	93 3/4	2x3
2	93 3/4 VLF<U>	1x6

STUD SPACING 24"

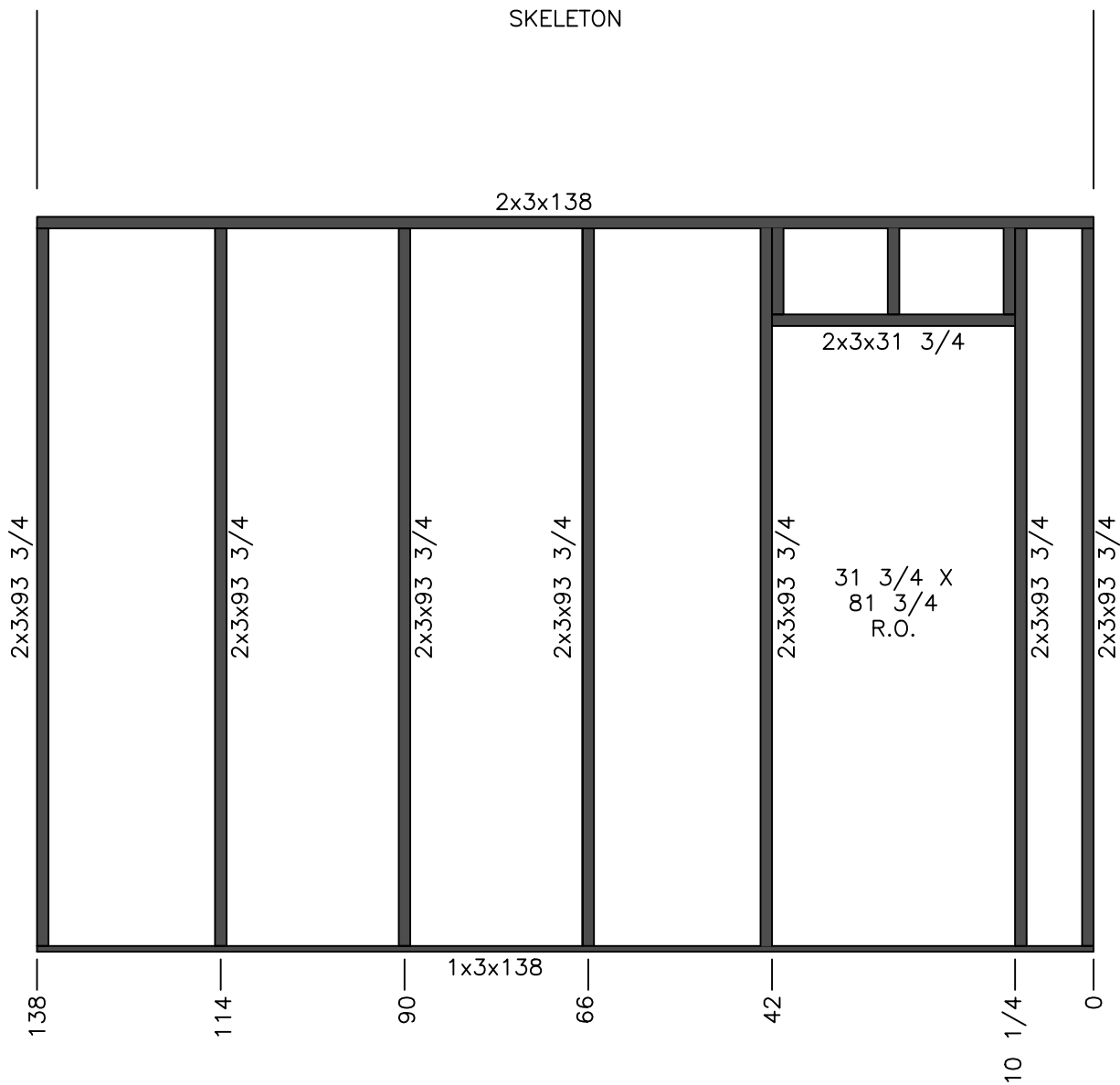
	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 24		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	138	1x3
1	138	2x3
8	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3
2	93 3/4 VLF<U>	1x4


	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018 Scale: N.T.S.	34M174
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 25		Rev:

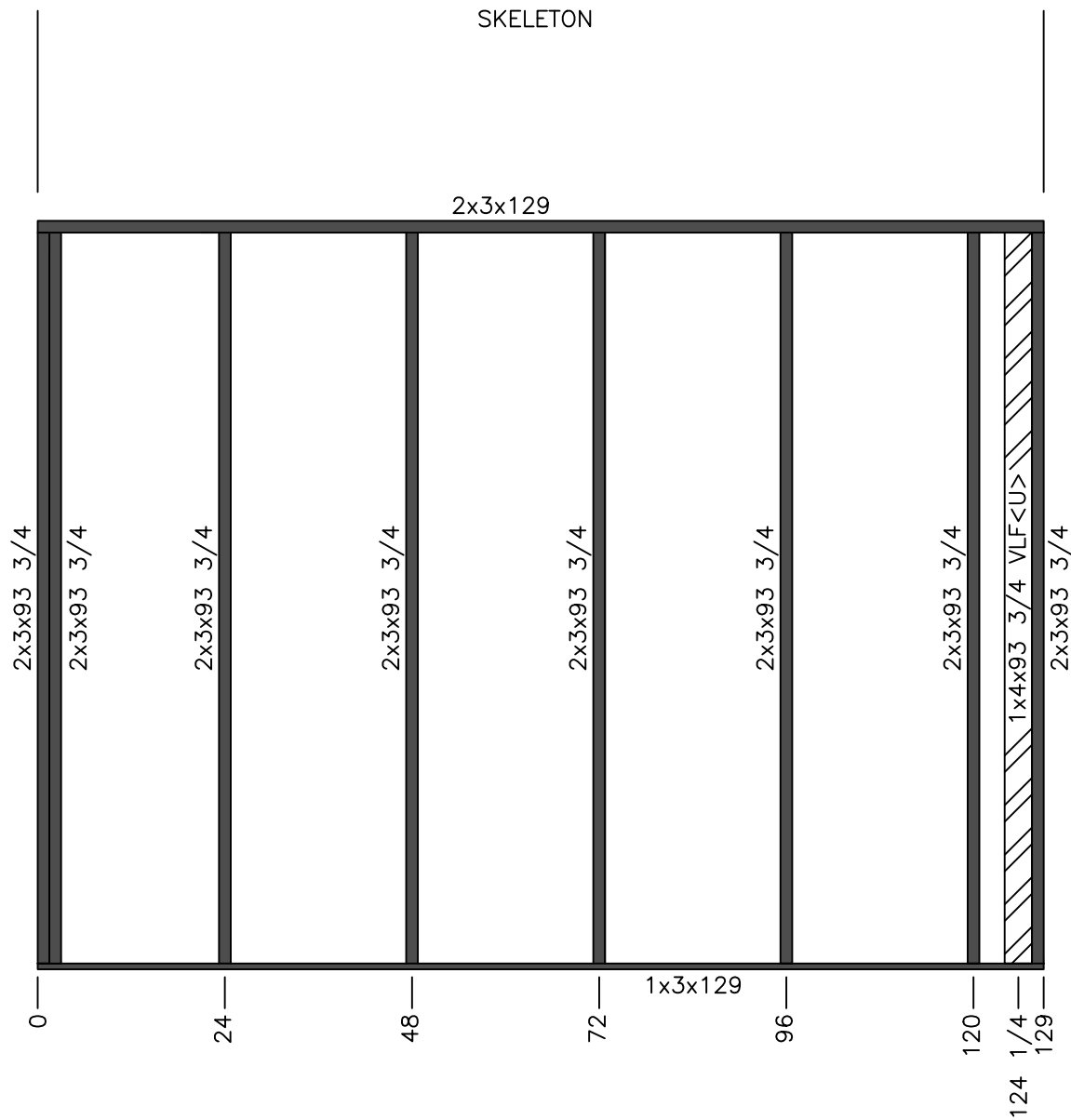
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	138	1x3
1	138	2x3
7	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3

STUD SPACING 24"

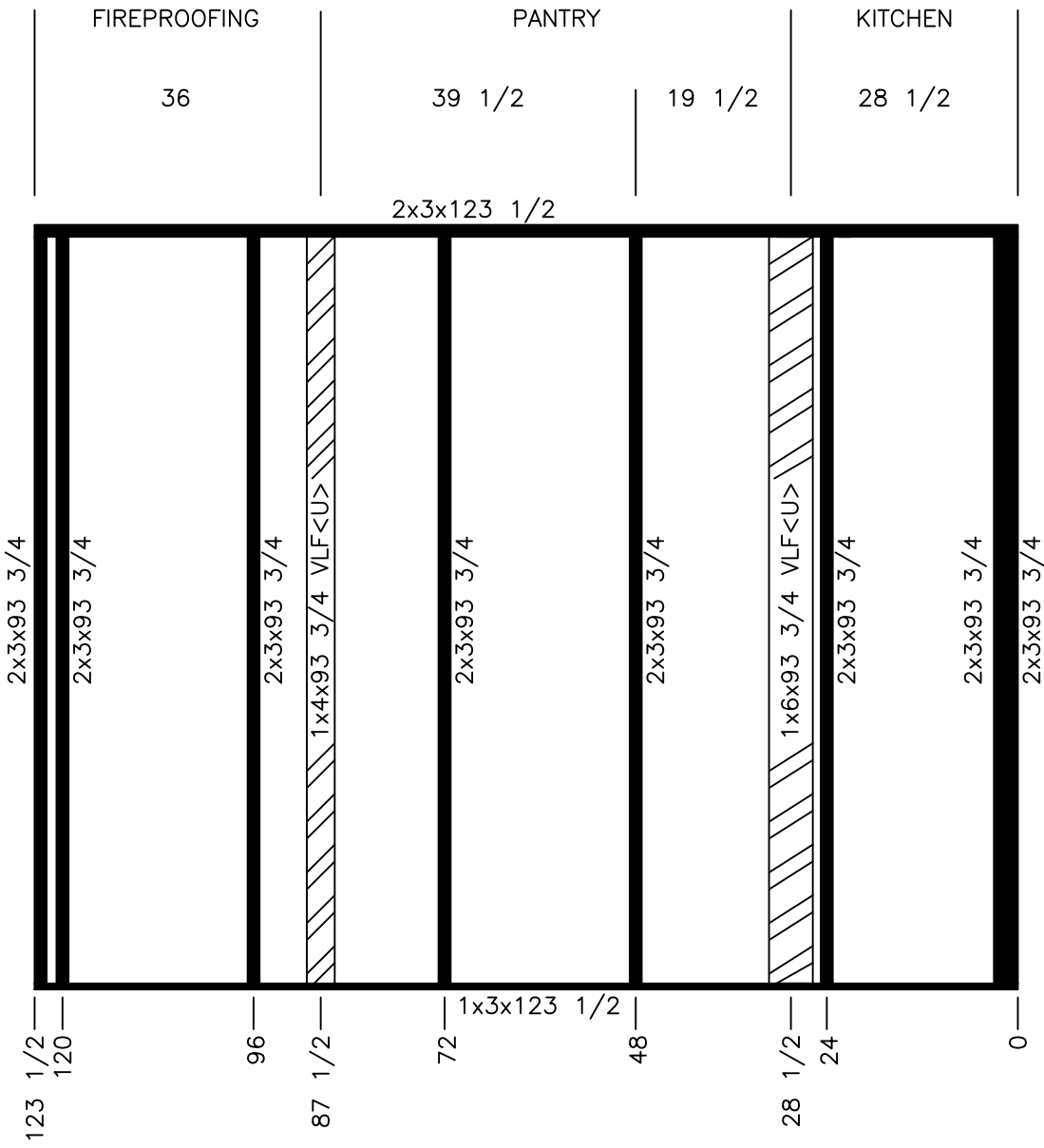
	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	34M174
WALL 26		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	129	1x3
1	129	2x3
8	93 3/4	2x3
1	93 3/4 VLF<U>	1x4

STUD SPACING 24"

	Model #: EGL28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' Eagle	34M174
WALL 27		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	123 1/2	1x3
1	123 1/2	2x3
8	93 3/4	2x3
1	93 3/4 VLF<U>	1x6
1	93 3/4 VLF<U>	1x4



Model #: EGL28603A
 Date: 01/18/2018 Scale: N.T.S.

Drawing #:
 34M212

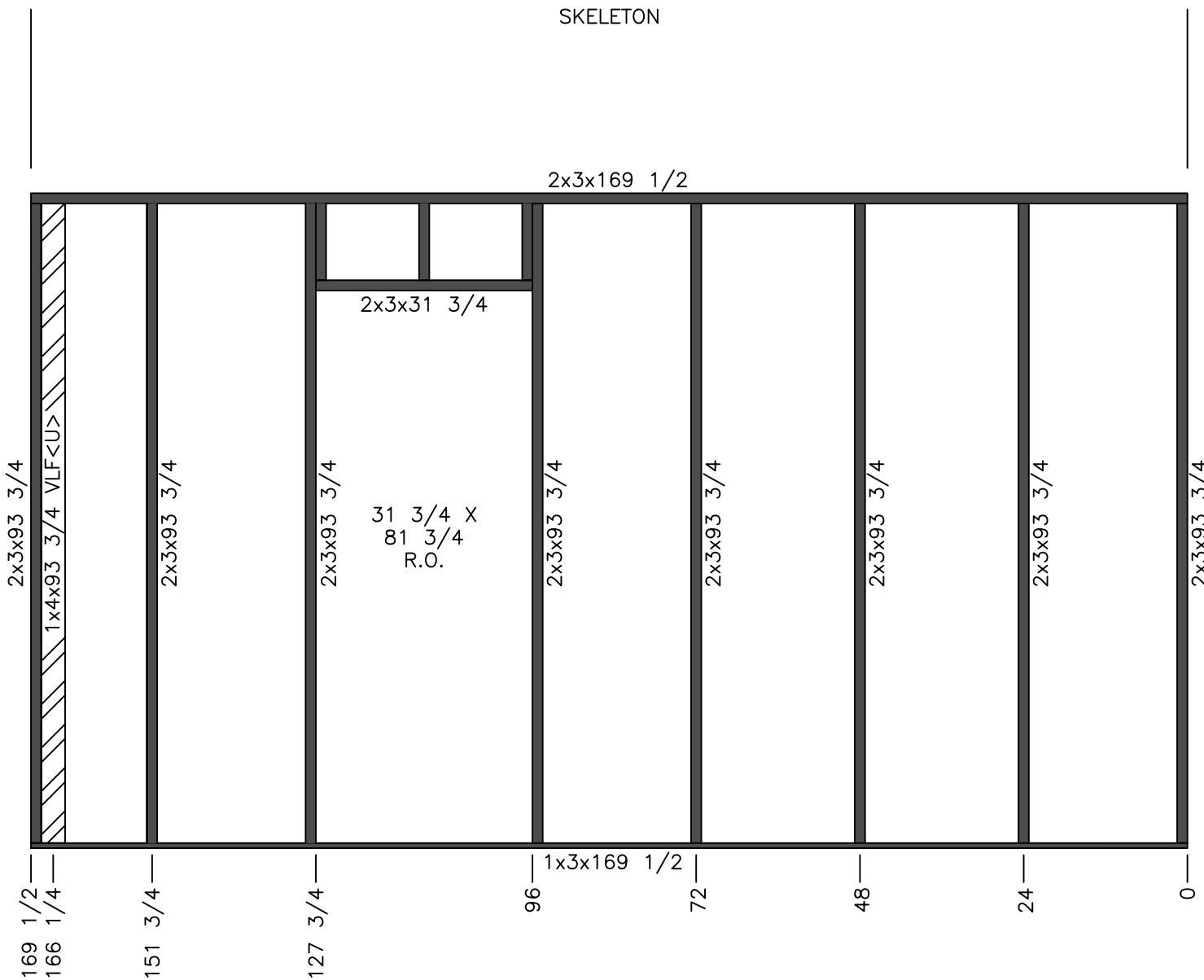
Product Designer:
 D.C.S.

Model:
 28' x 60' Eagle

WALL 28


Rev:

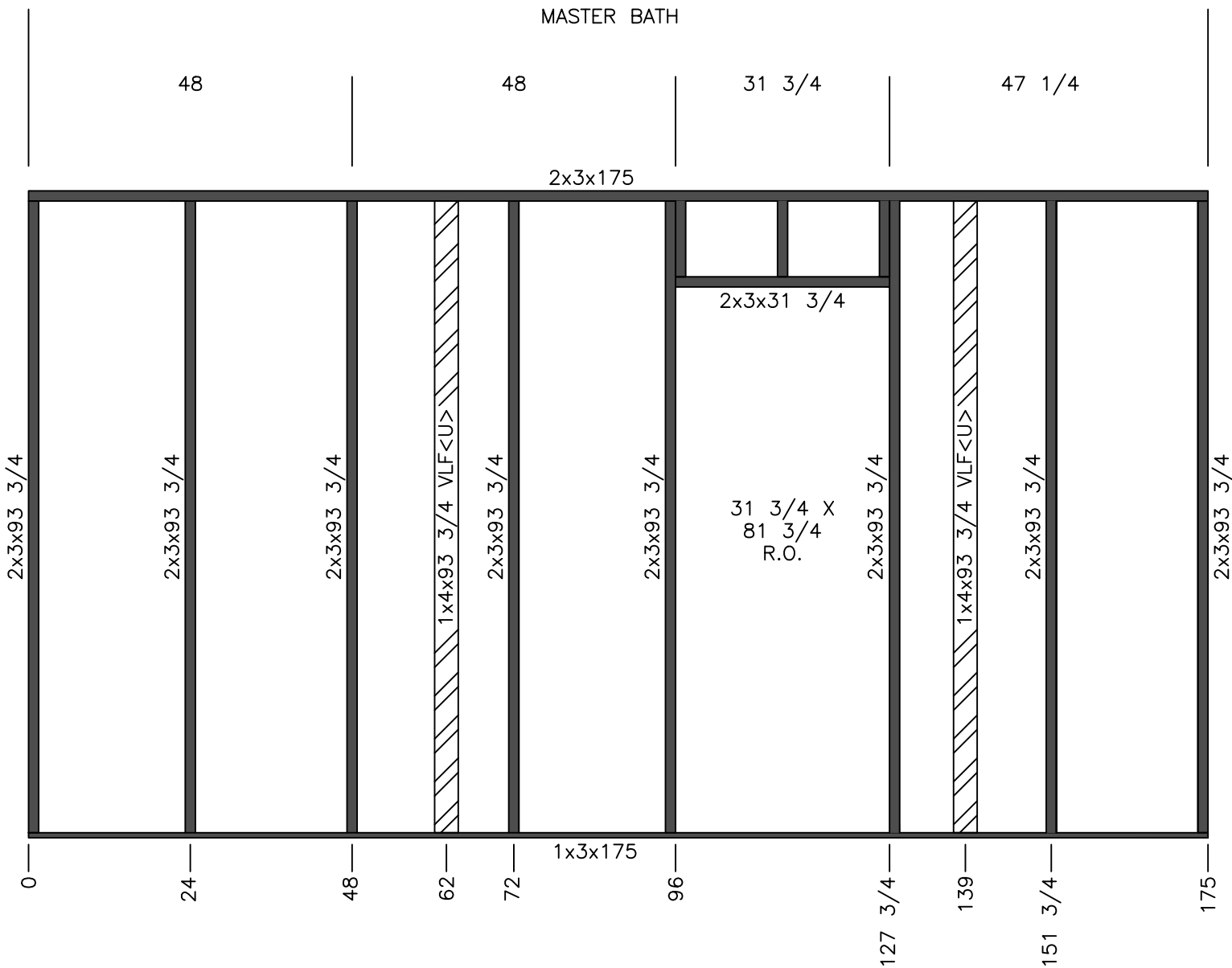
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	169 1/2	1x3
1	169 1/2	2x3
8	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3
1	93 3/4 VLF<U>	1x4

STUD SPACING 24"

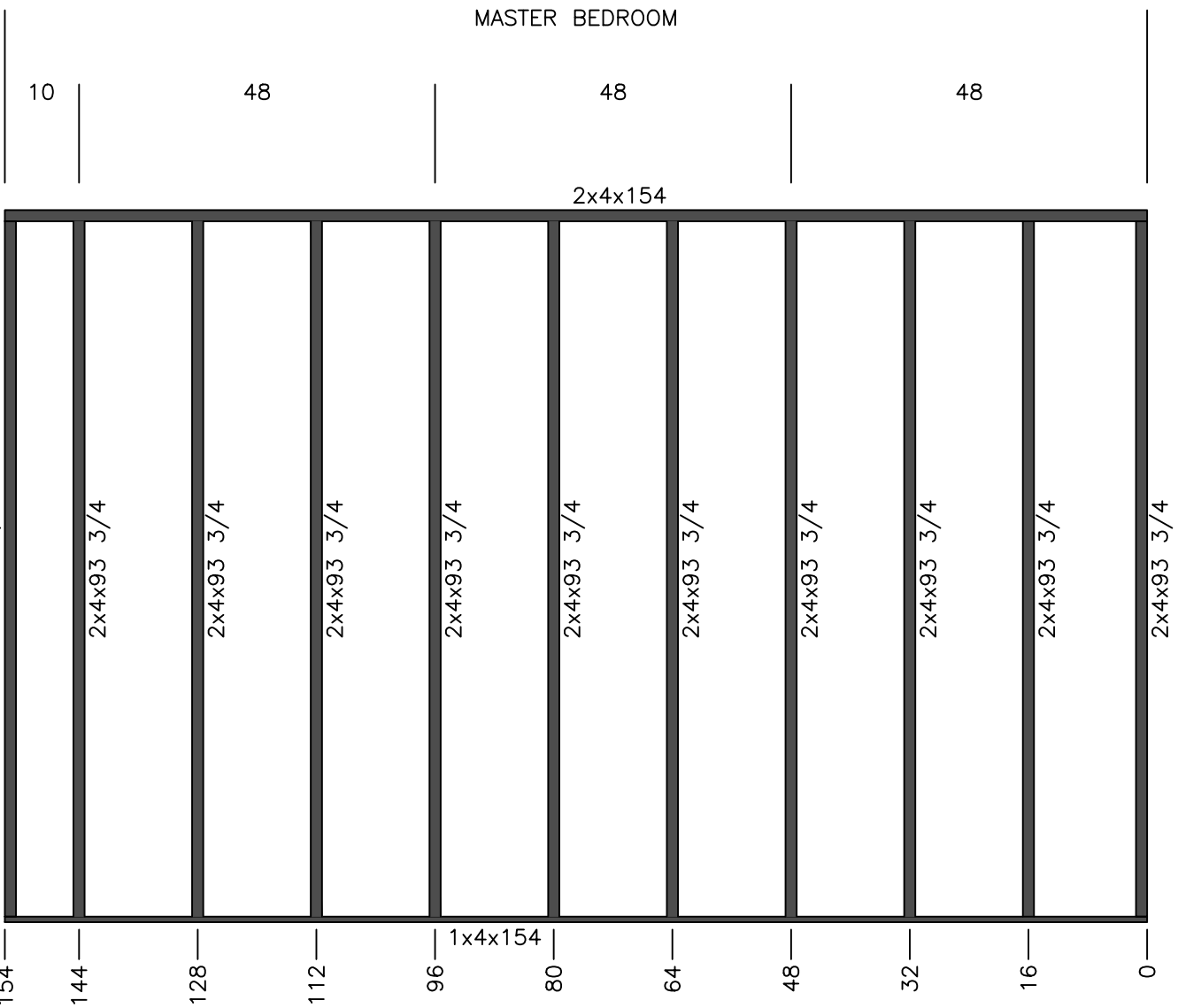
	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	34M174
WALL 29		Rev:




CUTLIST		
QTY	SIZE	TYPE
1	175	1x3
1	175	2x3
8	93 3/4	2x3
1	31 3/4	2x3
3	11 1/4	2x3
2	93 3/4 VLF<U>	1x4

STUD SPACING 24"

	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	34M174
WALL 30		Rev:

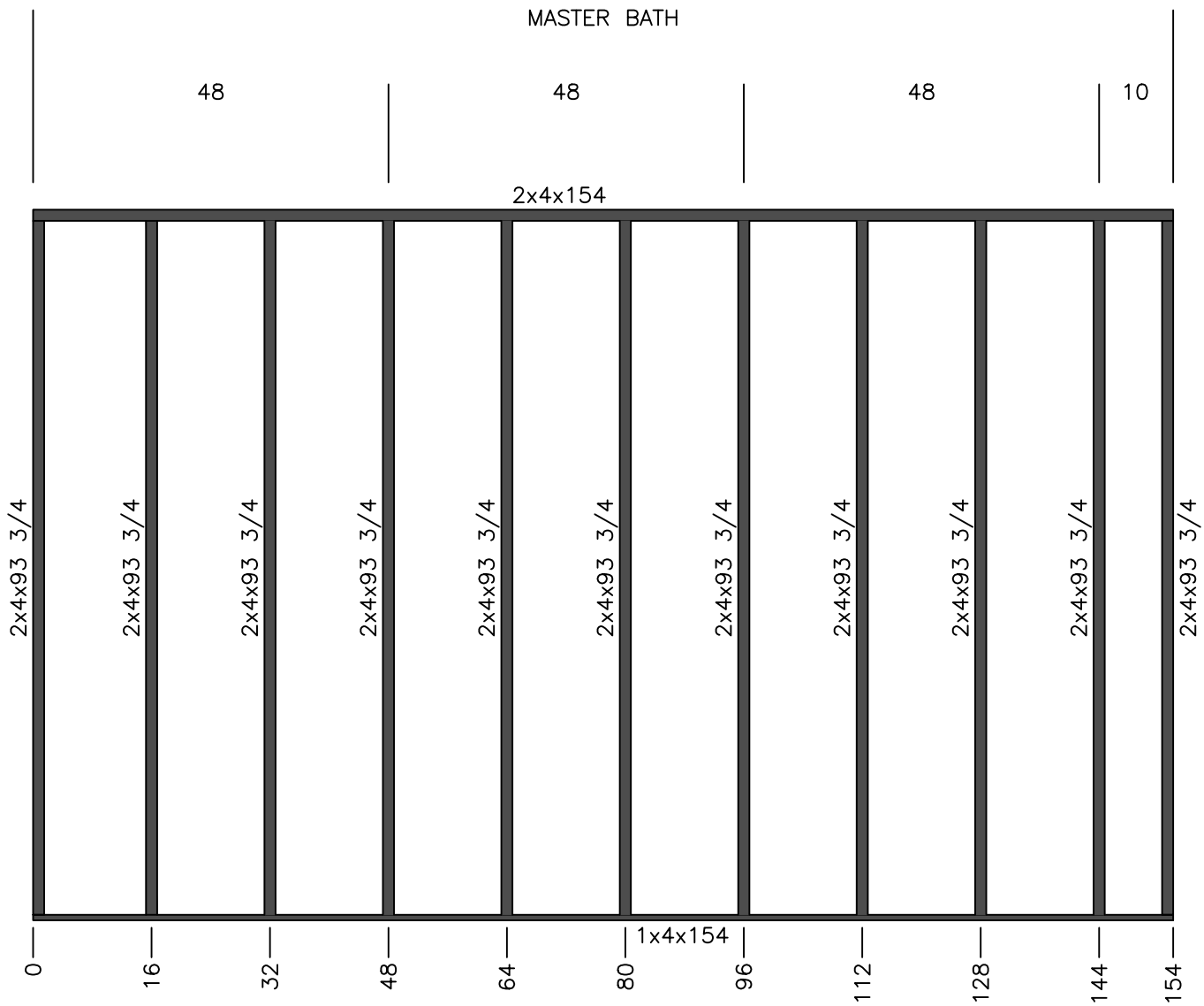


CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
11	93 3/4	2x4


	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 31		Rev:

STUD SPACING 16"

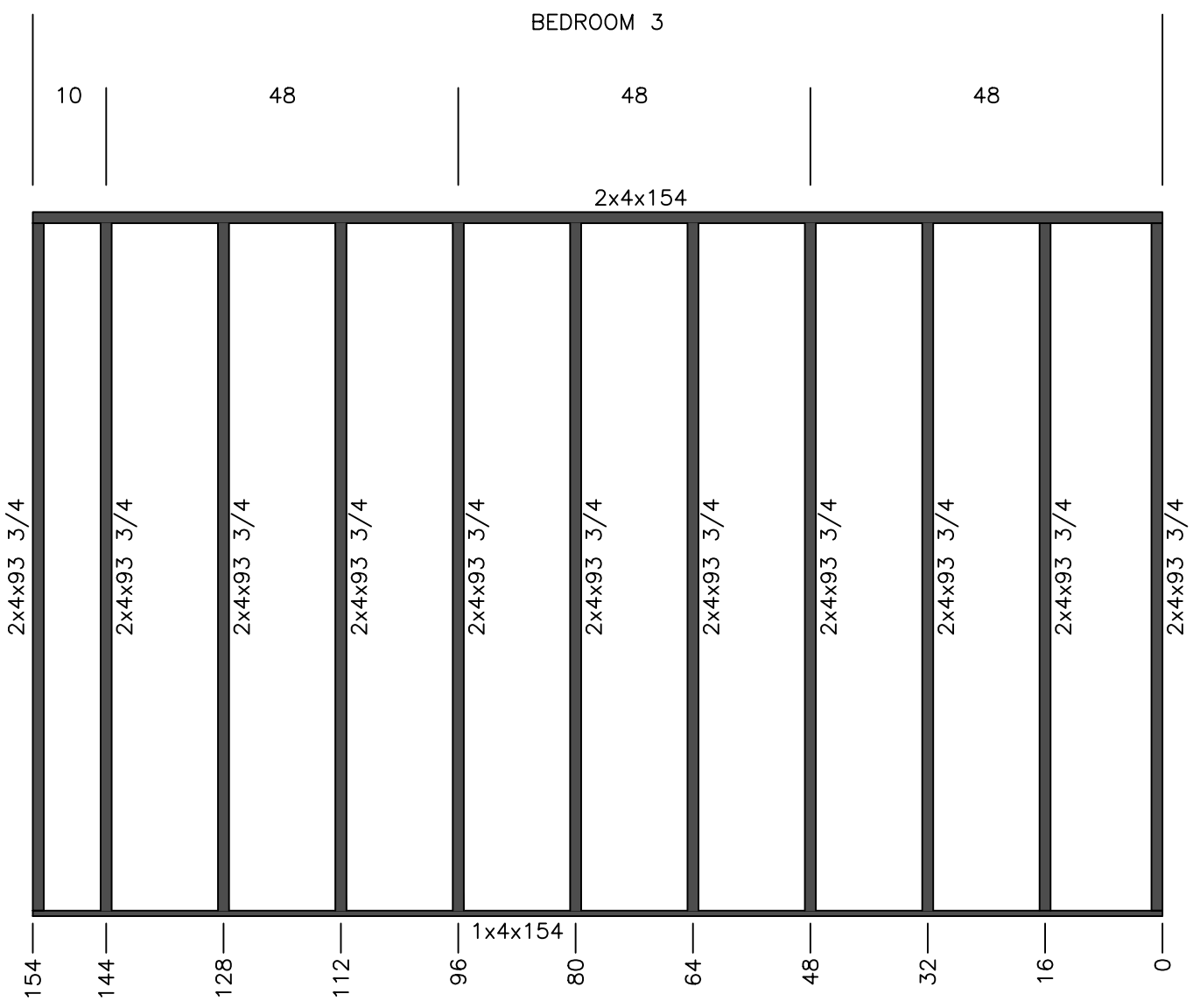
CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
11	93 3/4	2x4




STUD SPACING 16"

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 32		Rev:

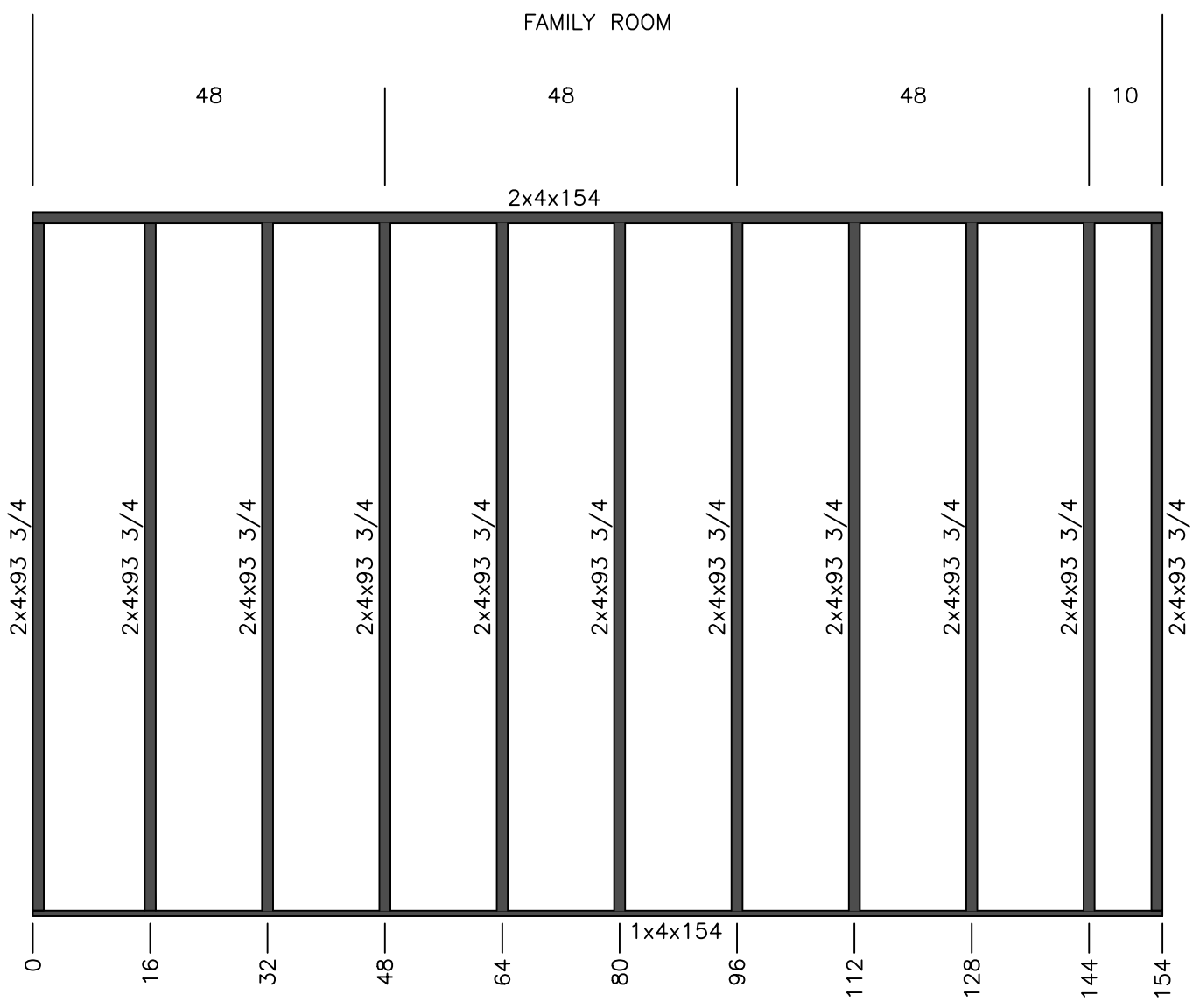
CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
11	93 3/4	2x4




STUD SPACING 16"

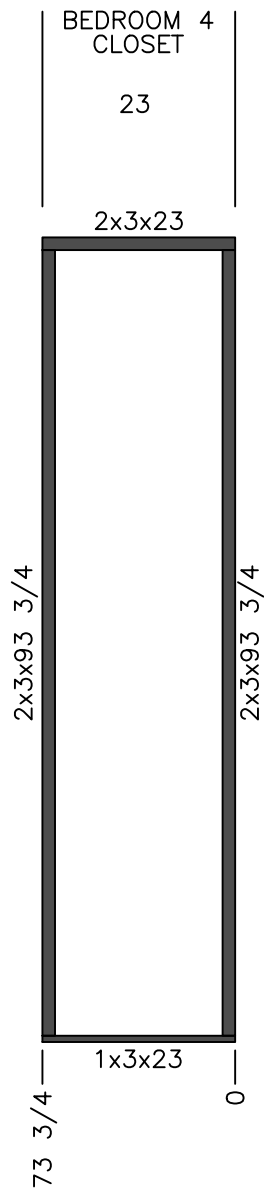
	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 33		Rev:

CUTLIST		
QTY	SIZE	TYPE
1	154	1x4
1	154	2x4
11	93 3/4	2x4




STUD SPACING 16"

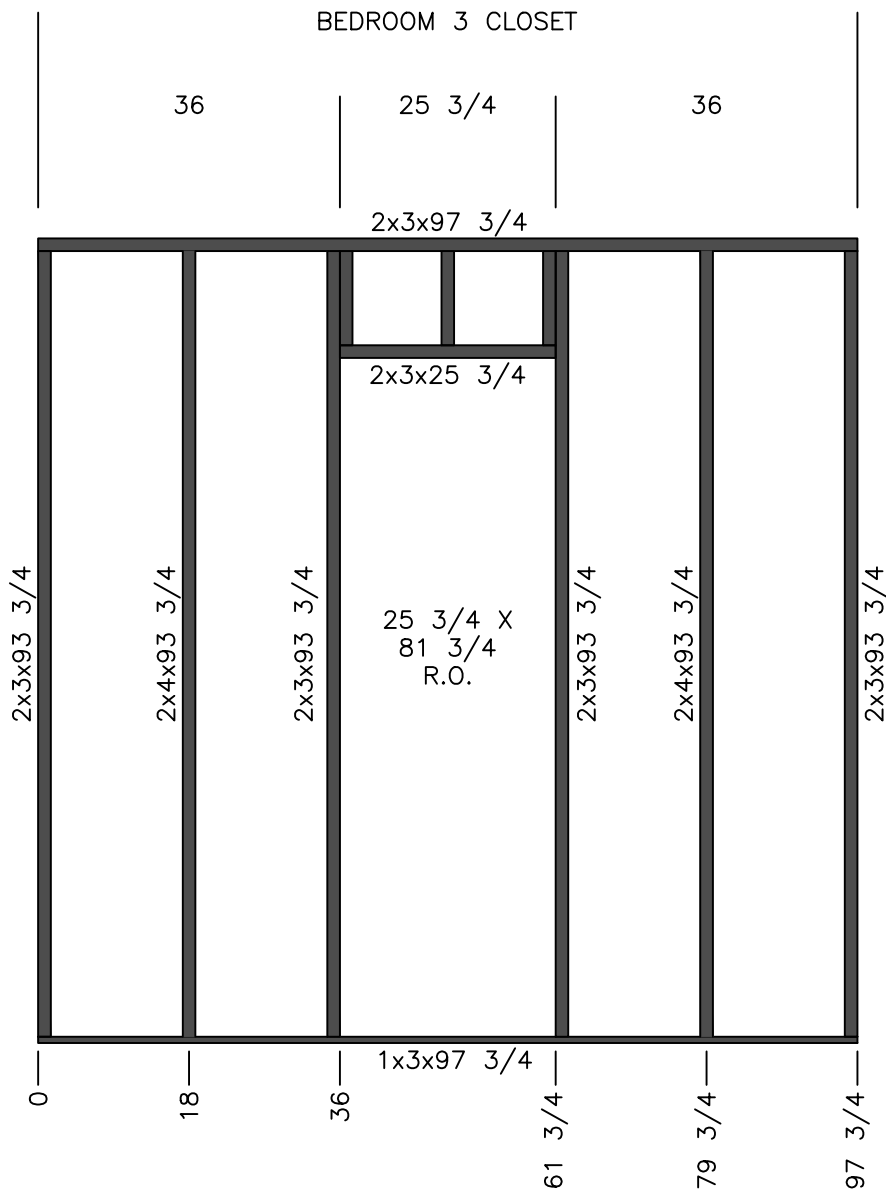
	Model #: EAG28603A		Drawing #: 34M174
	Date: 01/18/2018	Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE		Rev:
WALL 34			



CUTLIST		
QTY	SIZE	TYPE
1	23	1x3
1	23	2x3
2	93 3/4	2x3

STUD SPACING 24"

	Model #: EAG28603A	Drawing #: 34M174
	Date: 01/18/2018 Scale: N.T.S.	
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 35		Rev:



CUTLIST		
QTY	SIZE	TYPE
1	97 3/4	1x3
1	97 3/4	2x3
6	93 3/4	2x3
3	11 1/4	2x3
1	25 3/4	2x3



Model #: EAG28603A

Drawing #:

Date: 01/18/2018

Scale: N.T.S.

34M174

Product Designer:

Model:

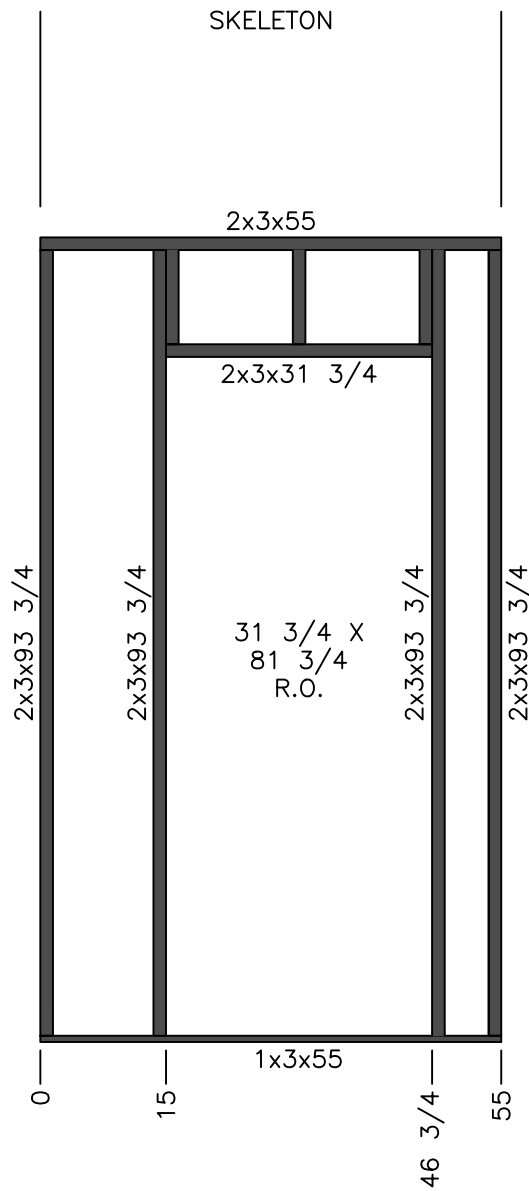
D.C.S.

28' x 60' EAGLE

STUD SPACING 24"

WALL 36

Rev:



CUTLIST		
QTY	SIZE	TYPE
1	55	1x3
1	55	2x3
4	93 3/4	2x3
3	11 1/4	2x3
1	31 3/4	2x3



Model #: EAG28603A

Drawing #:

Date: 01/18/2018

Scale: N.T.S.

34M174

Product Designer:

Model:

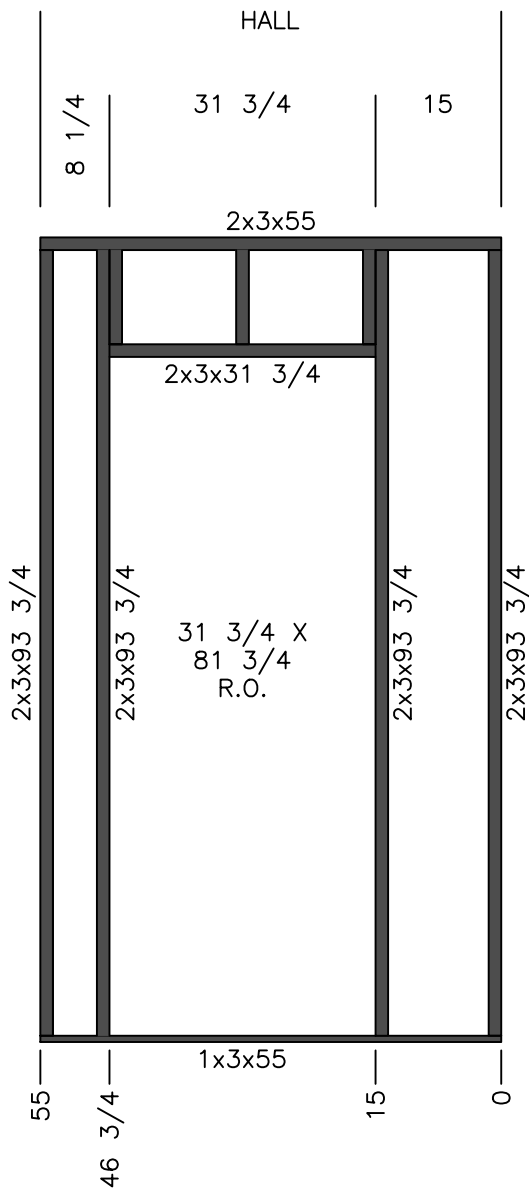
D.C.S.

28' x 60' EAGLE

WALL 37


Rev:

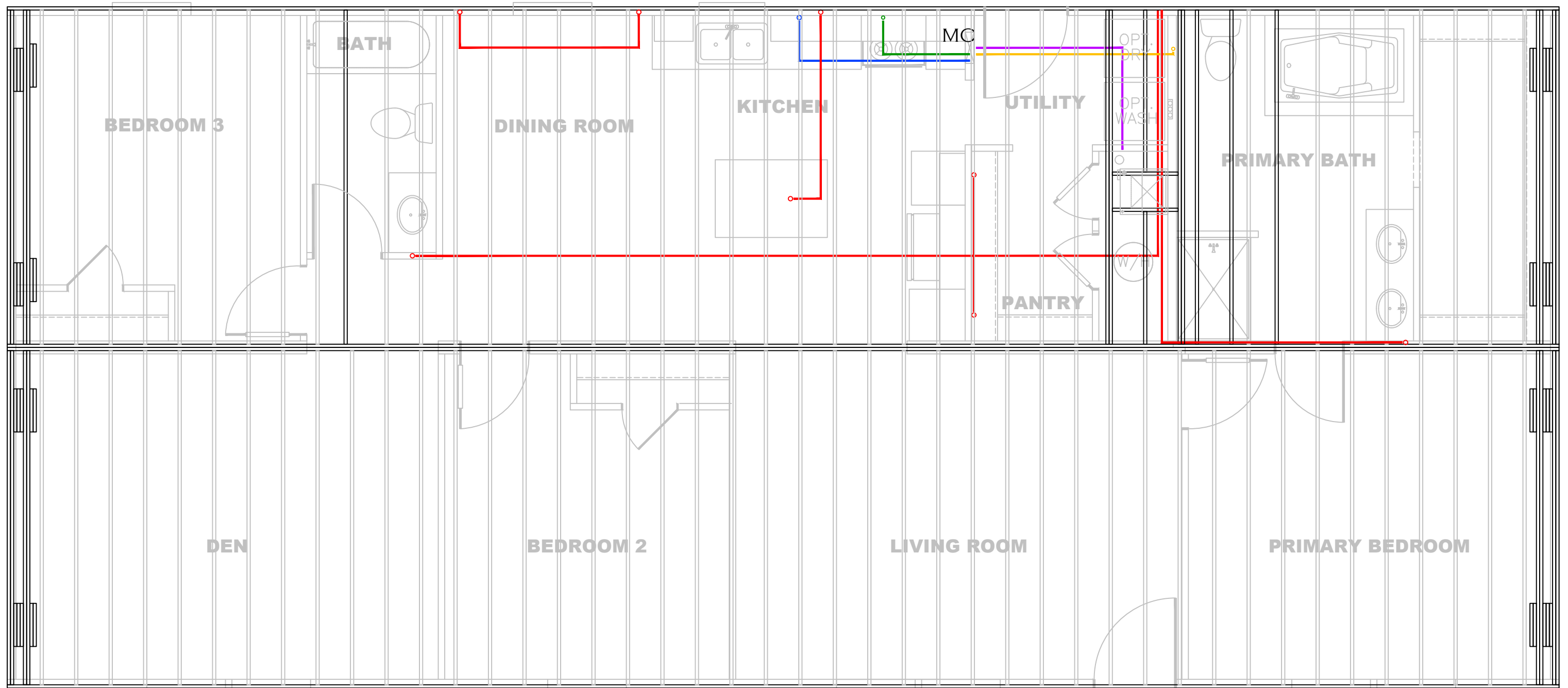
STUD SPACING 24"



CUTLIST		
QTY	SIZE	TYPE
1	55	1x3
1	55	2x3
4	93 3/4	2x3
3	11 1/4	2x3
1	31 3/4	2x3

STUD SPACING 24"

	Model #: EAG28603A	Drawing #:
	Date: 01/18/2018	Scale: N.T.S.
Product Designer: D.C.S.	Model: 28' x 60' EAGLE	
WALL 38		Rev:



- = GFI (12-2)
- = RANGE
- = FURNACE
- = DRYER
- = WATER HEATER
- = DISHWASHER (D/W)
- = RANGE HOOD (14-2)
- MC = METER CENTER DROP

REV #	DATE	DESCRIPTION

SHEET:
FJIG
ELEC

FLOOR JOIST
ELECTRICAL LAYOUT

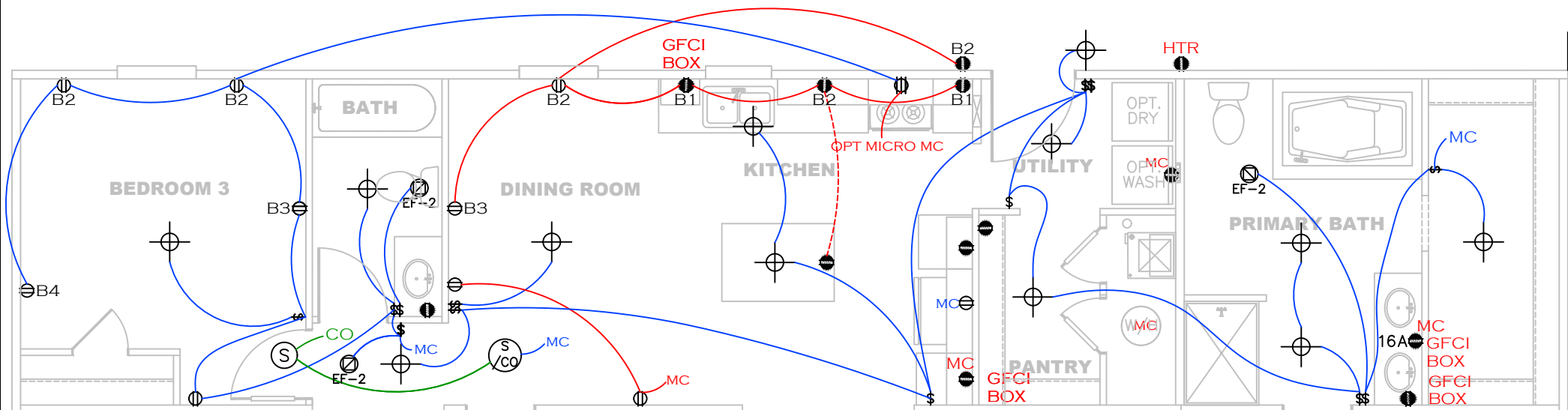
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

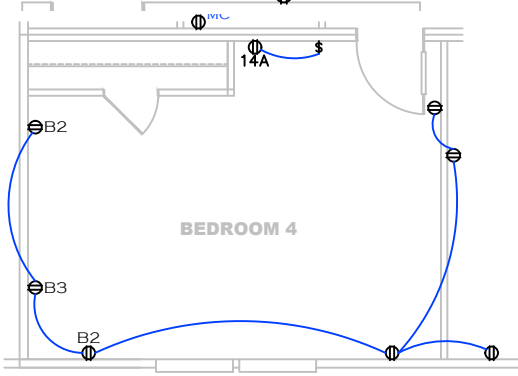
DRAWING # 34M212
MODEL # EAG28603A
DATE: 02/15/2018 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
SERIES: EAGLE SERIES
PRODUCT DESIGNER: DANIEL C. SHELDON

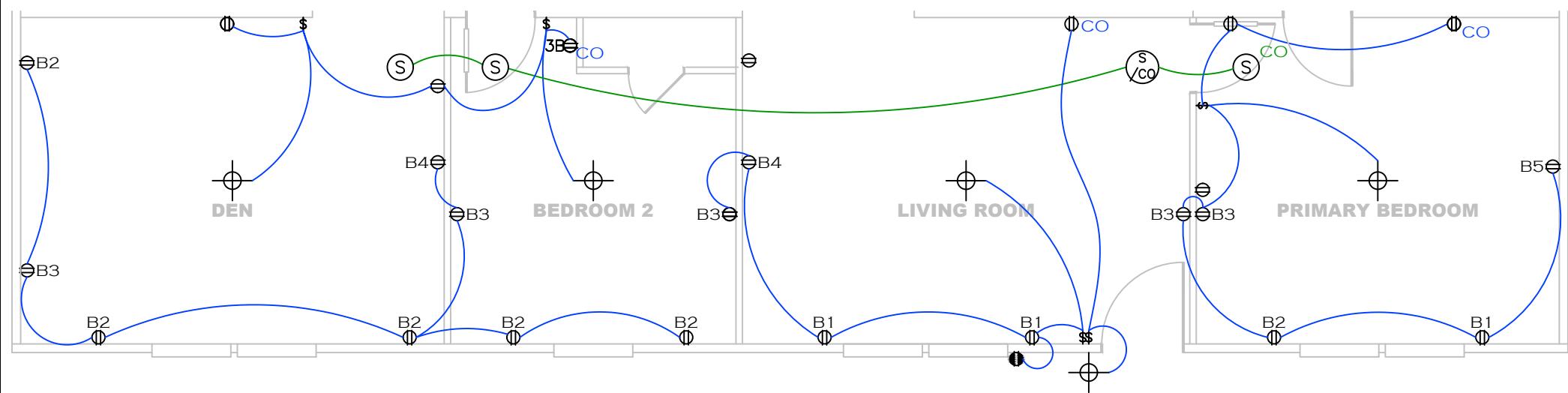
STD PLAN "CONDITIONED": 1,580 FT²
REV. BY: BKR
REV. DATE: 12/08/2022



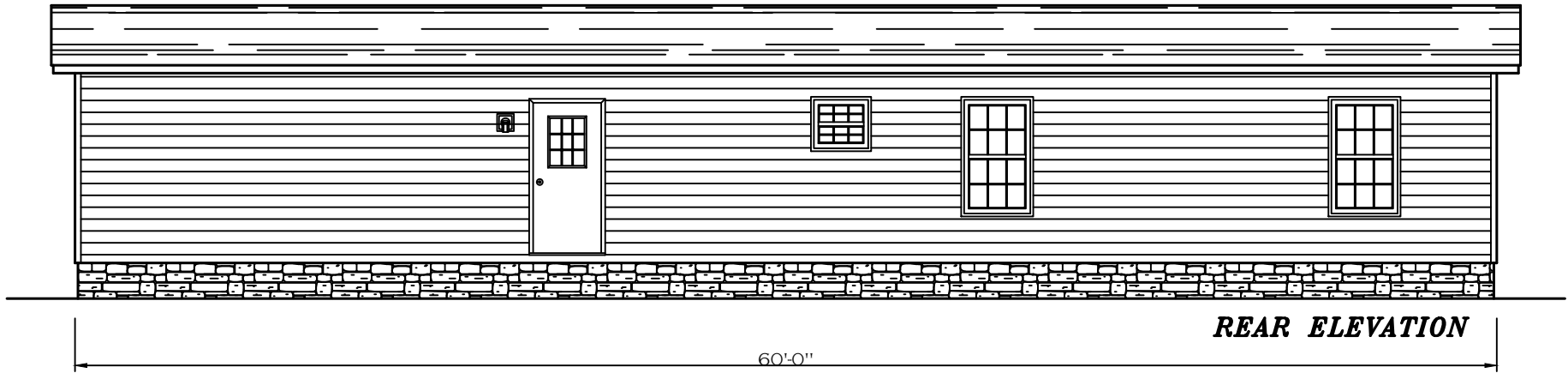
- = 14-2 WIRE (BLUE)
- = 14-2 WIRE (GREEN/LIGHTS)
- = 14-2 WIRE (ORANGE/LED)
- = 12-2 WIRE (RED)
- = 14-3 WIRE (BROWN)
- = THERMOSTAT (LIGHT GREEN)
- CO = CROSSOVER
- MC = METER CENTER DROP



OPT. BEDROOM 4 REPLACES DEN

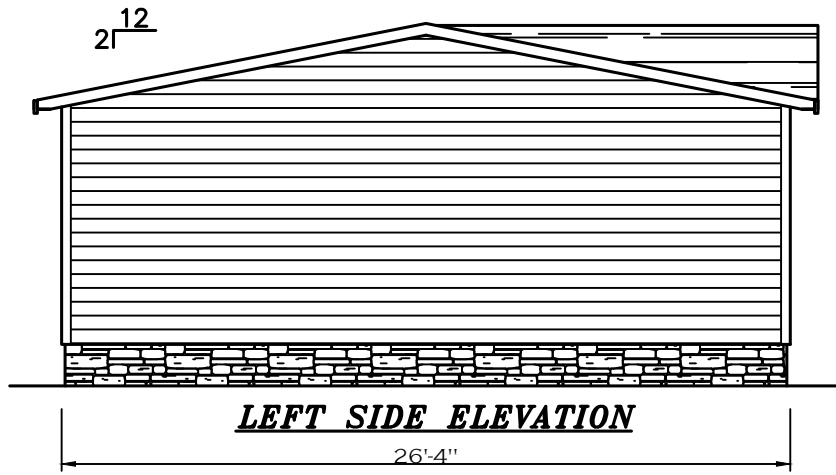


SHEET: MASTER	WIRE RUN PLAN	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING # 34M212	MODEL: THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED": 1,580 FT ²
			MODEL # EAG28603A DATE: 05/05/2023	SERIES: EAGLE SERIES SCALE: N.T.S.	REV. BY: PRODUCT DESIGNER: DANIEL C. SHELDON REV. DATE:



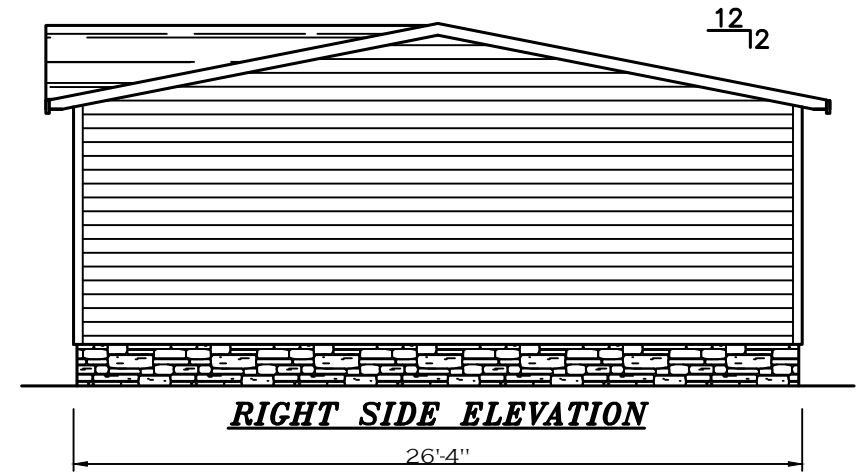
REAR ELEVATION

60'-0"



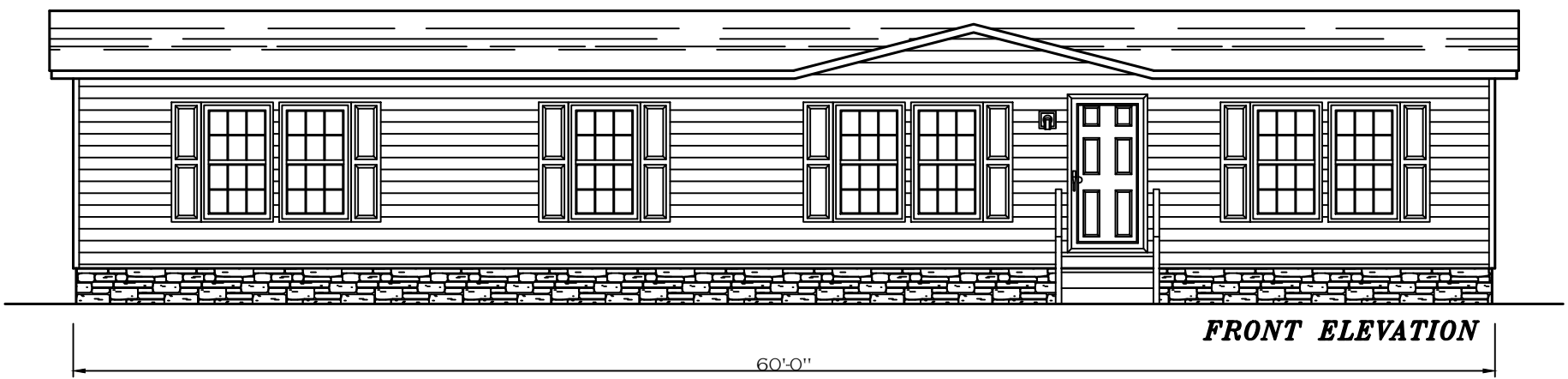
LEFT SIDE ELEVATION

26'-4"



RIGHT SIDE ELEVATION

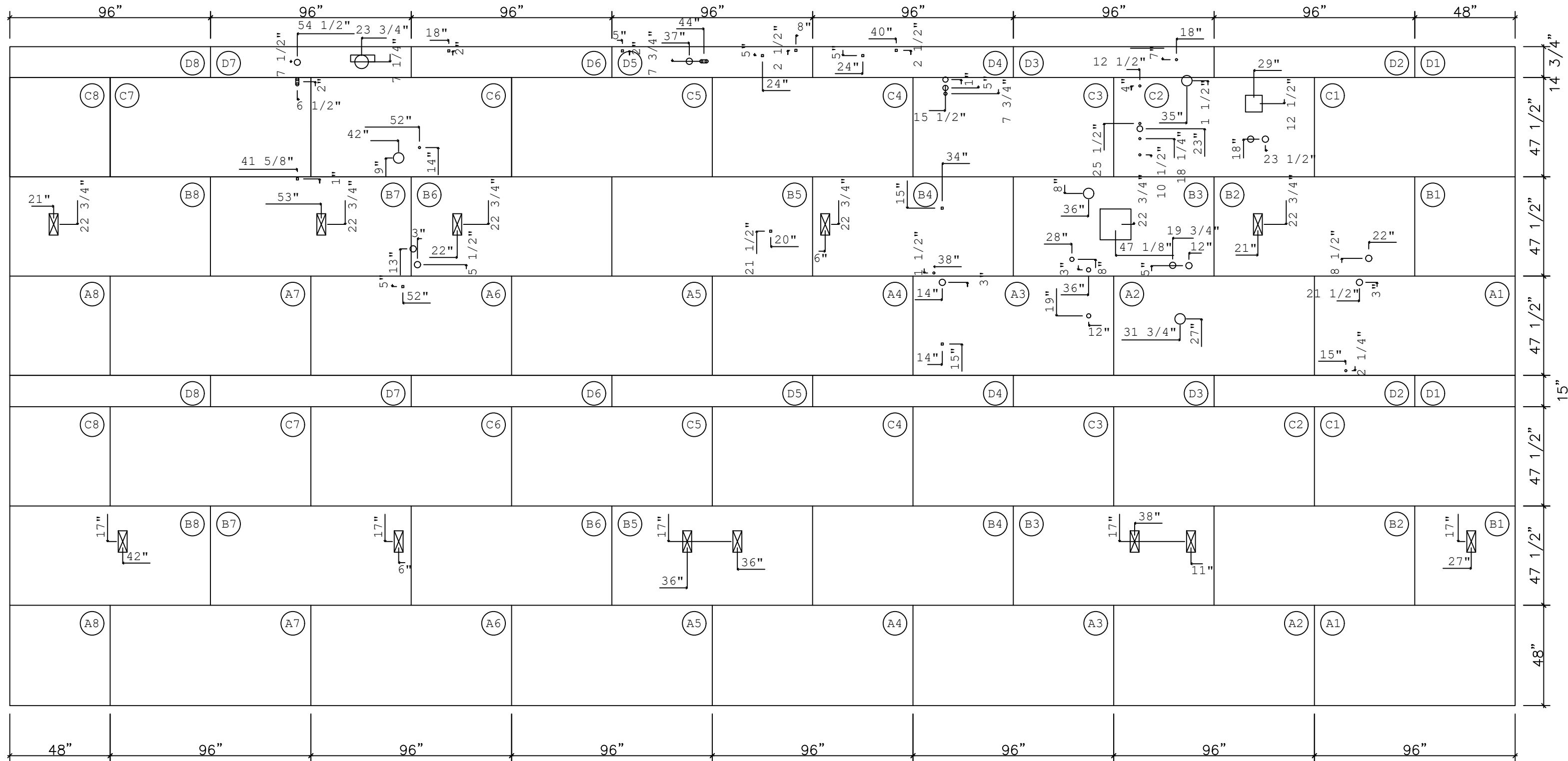
26'-4"




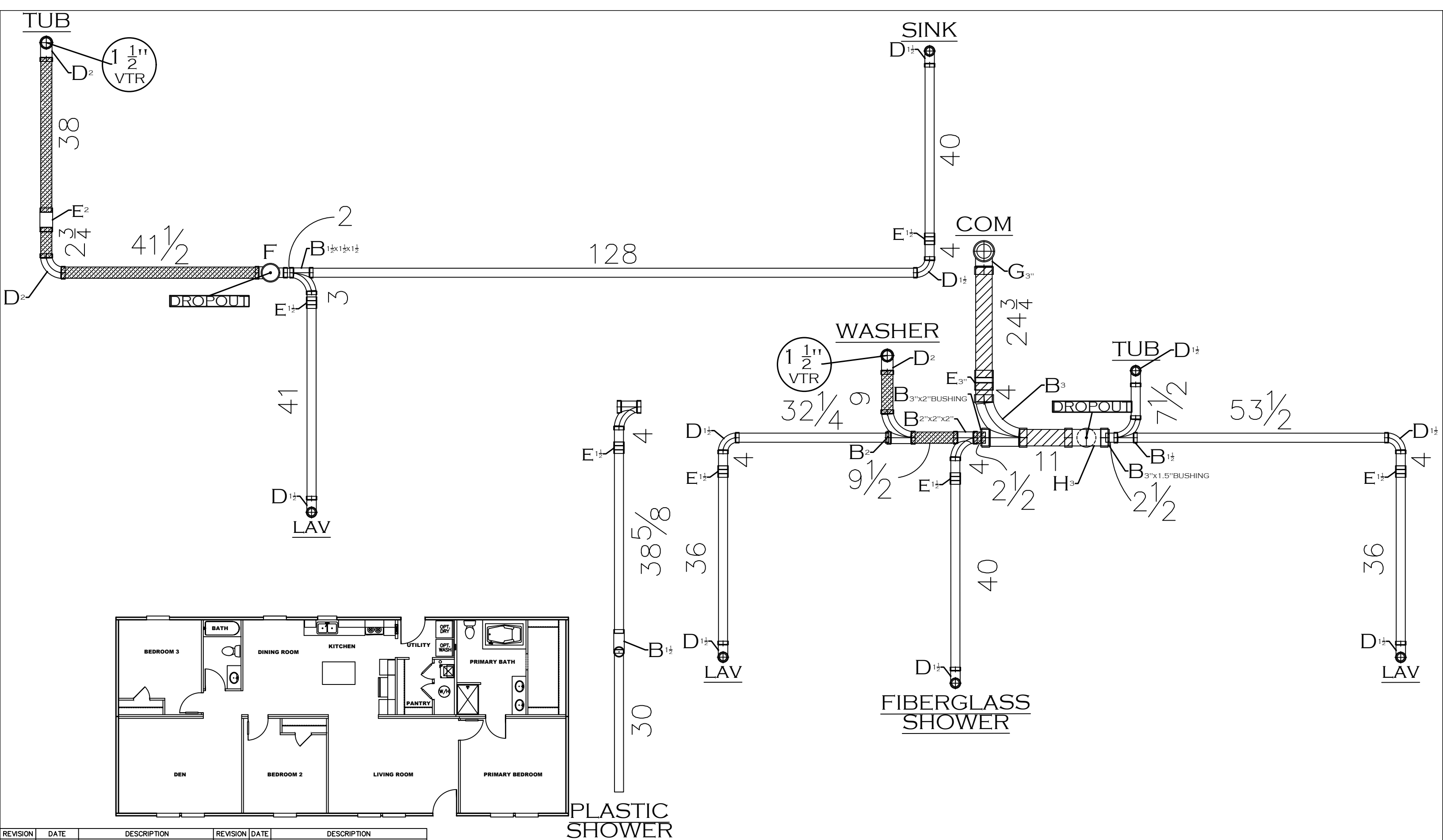
FRONT ELEVATION

60'-0"

SHEET: ELEV	ELEVATION	Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	DRAWING #	34M212-ELEV	MODEL:	THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED":	1,580 FT ²
			MODEL #	EAG28603A	SERIES:	EAGLE SERIES	REV. BY:	
			DATE:	07/26/2023	SCALE:	1/67"=1'-0"	PRODUCT DESIGNER:	BRIAN K. RIFFEY
							REV. DATE:	



SHEET: DECK	FLOOR DECKING LAYOUT	 Clayton - 934 1420 Mountain Rd, Andersonville, TN 37705 PH: 865.494.7800 FAX: 865.494.0243	HILBORN, WERNER, CARTER, AND ASSOCIATES, INC. 1627 SOUTH MYRTLE AVE. CLEARWATER, FL. 33756	DRAWING # 34M212	MODEL: THE EAGLE 60 (28'x60')	STD PLAN "CONDITIONED": 1,580 FT ²
				MODEL # EAG28603A	SERIES: EAGLE SERIES	REV. BY:
				DATE: 04/28/2023	SCALE: N.T.S.	PRODUCT DESIGNER: BRIAN K. RIFFEY



REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION
-	-/--/--	-			

SHEET:
DRAIN

2D DRAIN LINES

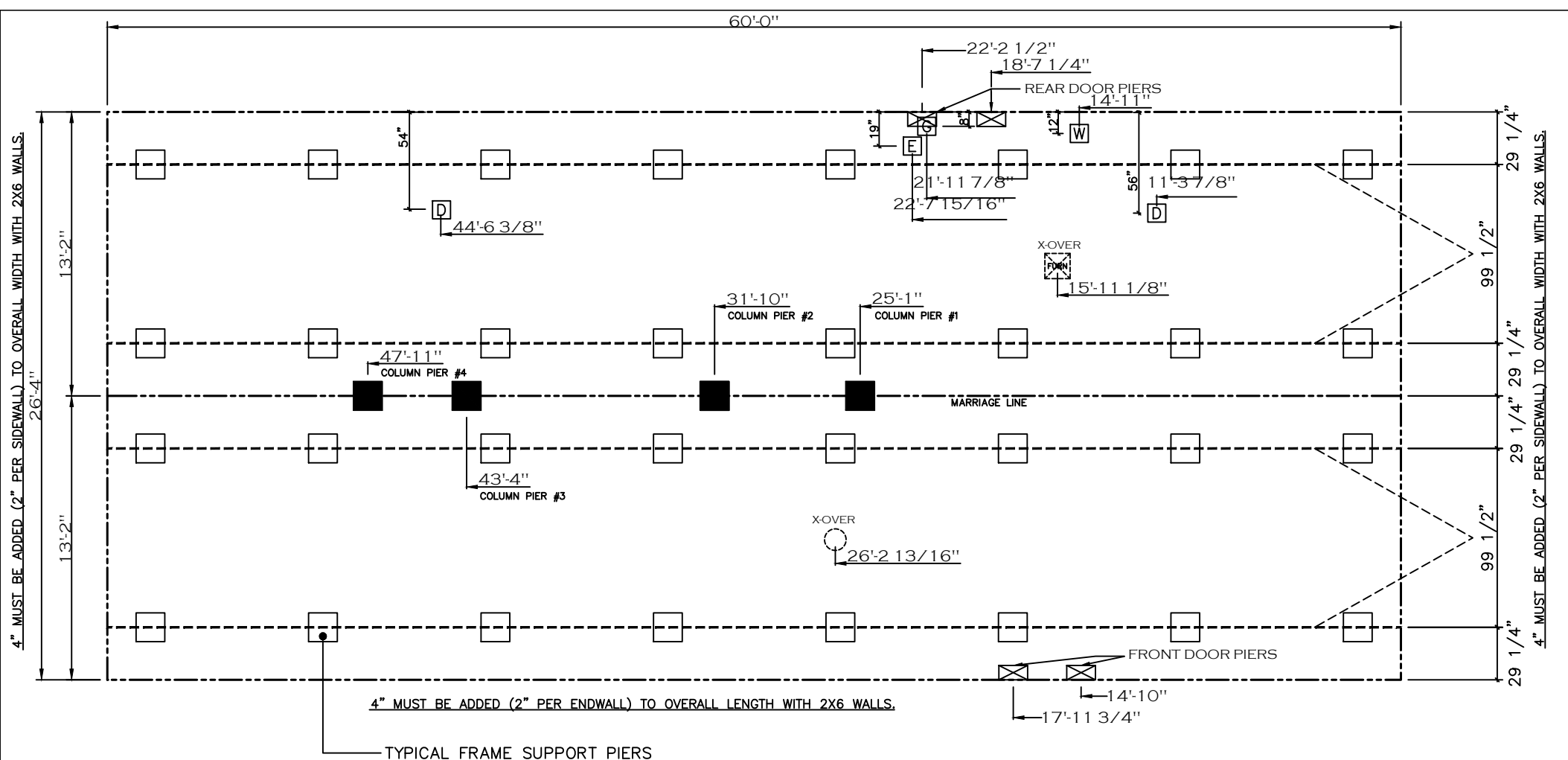
Clayton Clayton - 934
1420 Mountain Rd, Andersonville, TN 37705
PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER,
AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL. 33756

DRAWING # 34M212
MODEL # EAG28603A
DATE: 04/28/2023 SCALE: N.T.S.

MODEL: THE EAGLE 60 (28'x60')
SERIES: EAGLE SERIES
PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN "CONDITIONED": 1,580 FT²
REV. BY: BKR
REV. DATE:



GENERAL NOTES:

- PIER LOADS SHOWN ARE TO BE USED TO SIZE THE FOOTINGS BELOW THE MARRIAGEWALL FOR COLUMN SUPPORT PIERS. REFER TO TABLES 6b AND 6c IN THE INSTALLATION MANUAL FOR LOAD ON FRAME PIER FOOTINGS FOR HOMES THAT DO NOT REQUIRE PERIMETER BLOCKING. REFER TO TABLES 7b AND 7c IN THE INSTALLATION MANUAL FOR LOAD ON FRAME PIER FOOTINGS THAT REQUIRE PERIMETER BLOCKING. REFER TO TABLES 10 AND 10a TO DETERMINE FOOTING SIZE FOR ALL PIERS.
- REFER TO TABLE 9 FOR PIER CONFIGURATION AND MAXIMUM ALLOWABLE HEIGHTS. CROSS REFERENCE THE PIER HEIGHT WITH THE MAXIMUM ALLOWABLE FLOOR HEIGHT LISTED IN THE FRAME TIEDOWN CHARTS (TABLE 18, 19, AND 20).
- FLOOR WIDTH SHOWN IS FOR STANDARD PRODUCT ONLY. CONTACT THE MFG PLANT FOR SPECIFICATIONS OF OPTIONS ORDERED.
- SERVICE DROP LOCATIONS IDENTIFIED ARE APPROXIMATE.
- THE MAXIMUM SPACING FOR FRAME SUPPORT PIERS FOR 8" I-BEAMS IS 8 FEET, 10" & 12" I-BEAMS ARE 10 FEET.

20 psf Roof Live Load		
Column Pier #	Distance from Hitch	Pier Load (lbs)
1	25.083	1767
2	31.833	1767
3	43.33	1329
4	47.917	1329

20 lb ROOF LOAD SIDEWALL OPENING PIER LOAD 28' BOX WIDTH	SIDEWALL OPENING (FT) REQUIRED PIER LOAD (LBS)					
	3	4	5	6	8	10
	1175	1330	1485	1640	1950	2260

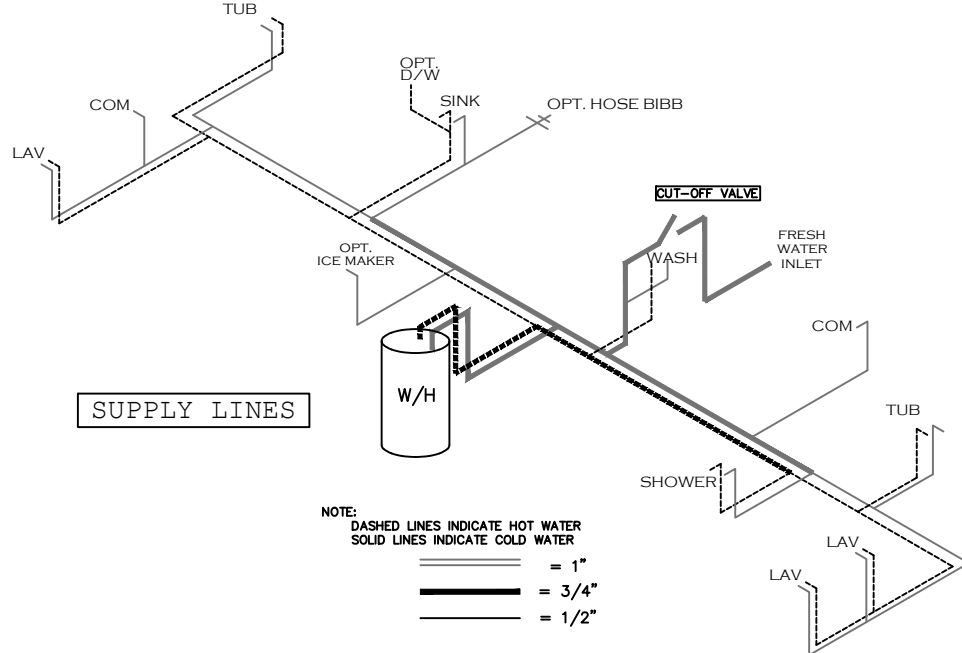
SERVICE DROP LEGEND
[E] = ELECTRICAL DROP
[W] = WATER INLET
[D] = DWV PLUMBING DROP
[G] = GAS INLET

*FOR 30 lb & 40 lb ROOF LOAD REFER TO TABLES 7b & 7c IN THE INSTALLATION MANUAL.

REV #	DATE	DESCRIPTION

SHIP LOOSE CHART

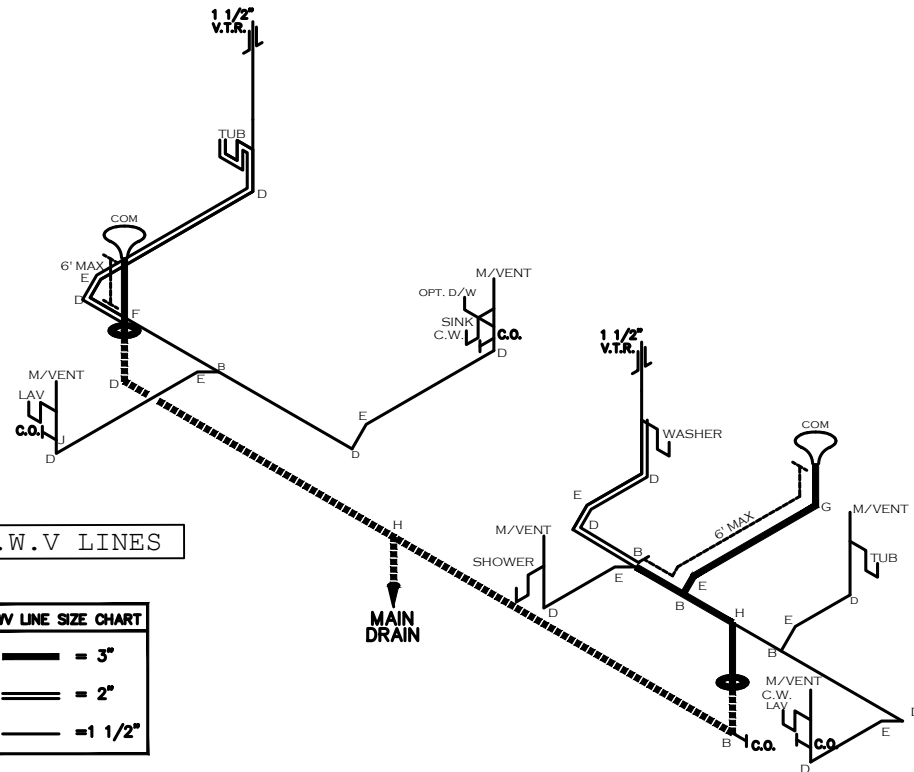
PARTS SHIPPED LOOSE W/HOME (TO BE INSTALLED IN FIELD)	
QUANTITY	DESCRIPTION
1	Ⓓ 3" LONG SWEEP 1/4 BEND
1	Ⓔ 3x1 1/2x3 LONG TURN T-Y
1	Ⓗ 3" DBL ELL
1	3" COUPLING
2	CLEAN OUT-END CAP
1	APPROVED CEMENT
2 PCS	3" ABS PIPE 20' (min. 36' total length)
1 PCS	1 1/2" ABS PIPE 20' (min. 16' total length)
varies	SUPPORT STRAPS



SUPPLY LINES

NOTE:
 DASHED LINES INDICATE HOT WATER
 SOLID LINES INDICATE COLD WATER

= 1"
 = 3/4"
 = 1/2"



D.W.V. LINES

LEGEND	
A	SHORT TURN T-Y
B	LONG TURN T-Y
C	1/4 BEND
D	LONG SWEEP 1/4 BEND
E	45 ELL
F	DBL. SANITARY TEE
G	4x3 CLOSET ELL
H	DOUBLE ELL
I	22 1/2° ELL
J	45° Y
K	LONG TURN STREET ELBOW
L	45 FTG ELL

DWV LINE SIZE CHART	
	= 3"
	= 2"
	= 1 1/2"

SHEET: WL

D.W.V. & SUPPLY LINES

Clayton Clayton - 934
 1420 Mountain Rd, Andersonville, TN 37705
 PH: 865.494.7800 FAX: 865.494.0243

HILBORN, WERNER, CARTER, AND ASSOCIATES, INC.
 1627 SOUTH MYRTLE AVE.
 CLEARWATER, FL. 33756

DRAWING #: 34M212-WL
 MODEL #: EAG28603A
 DATE: 07/12/2023

MODEL: THE EAGLE 60 (28'x60')
 SERIES: EAGLE SERIES
 PRODUCT DESIGNER: BRIAN K. RIFFEY

STD PLAN "CONDITIONED": 1,580 FT²
 REV. BY:
 REV. DATE: