

7/22/2022

WILLIAM Z. BRANTLEY
TN. REG. NO. 113807
423-584-3844
zbydesignbuild@fastmail.com

[illegible]

SHEET TITLE:
ORTHOGRAPHICS

ENGINEER:
WILLIAM Z BRANTLEY
423-584-3844
zhbrantley@fastmail.com

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37738

OWNER:
TAYLOR MARSHALL

DATE:
7/22/2022

SCALE:

NTS

SHEET:

A-1

REVISION TABLE	NUMBER	DATE	REVISION DESCRIPTION

SHEET TITLE:
ELEVATIONS

ENGINEER:
WILLIAM Z BRANTLEY
423-584-3844
zbydesignbuild@fastmail.com

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37738

OWNER:
TAYLOR MARSHALL

DATE:

7/22/2022

SCALE:

1/4"=1'

SHEET:

A-2



RIGHT SIDE ELEVATION



FRONT ELEVATION



7/22/2022

WILLIAM Z. BRANTLEY
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423-584-3844
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ENGINEER:
WILLIAM Z B
423-584-

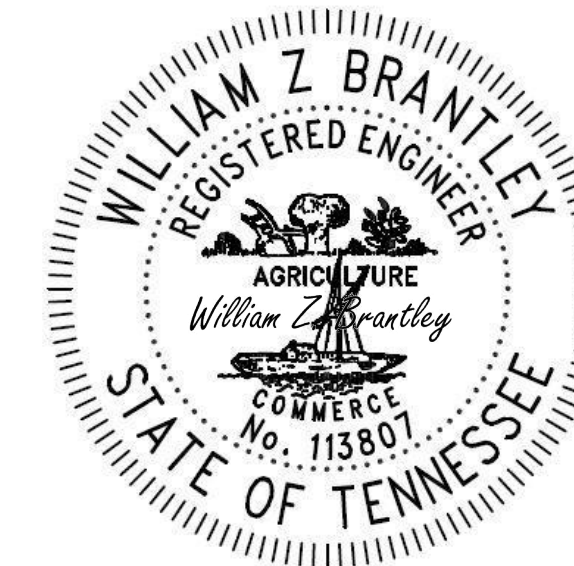
JOB ADDRESS:
VETERANS OVERLOOK
LOT 7

OWNER:
TAYLOR MARSHALL

DATE:
7/22/202

SCALE:
1/4"=1

SHEET:
A-3



7/22/2022

WILLIAM Z. BRANTLEY
TN. REG. NO. 113807
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zbydesignbuild@fastmail.com

ZB
DESIGNENG

REVISION TABLE	
NUMBER	DATE

SHEET TITLE:

FLOOR PLANS

ENGINEER:

WILLIAM Z BRANTLEY
423-584-3844
zbydesignbuild@fastmail.com

JOB ADDRESS:

VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37738

OWNER:

TAYLOR MARSHALL

DATE:

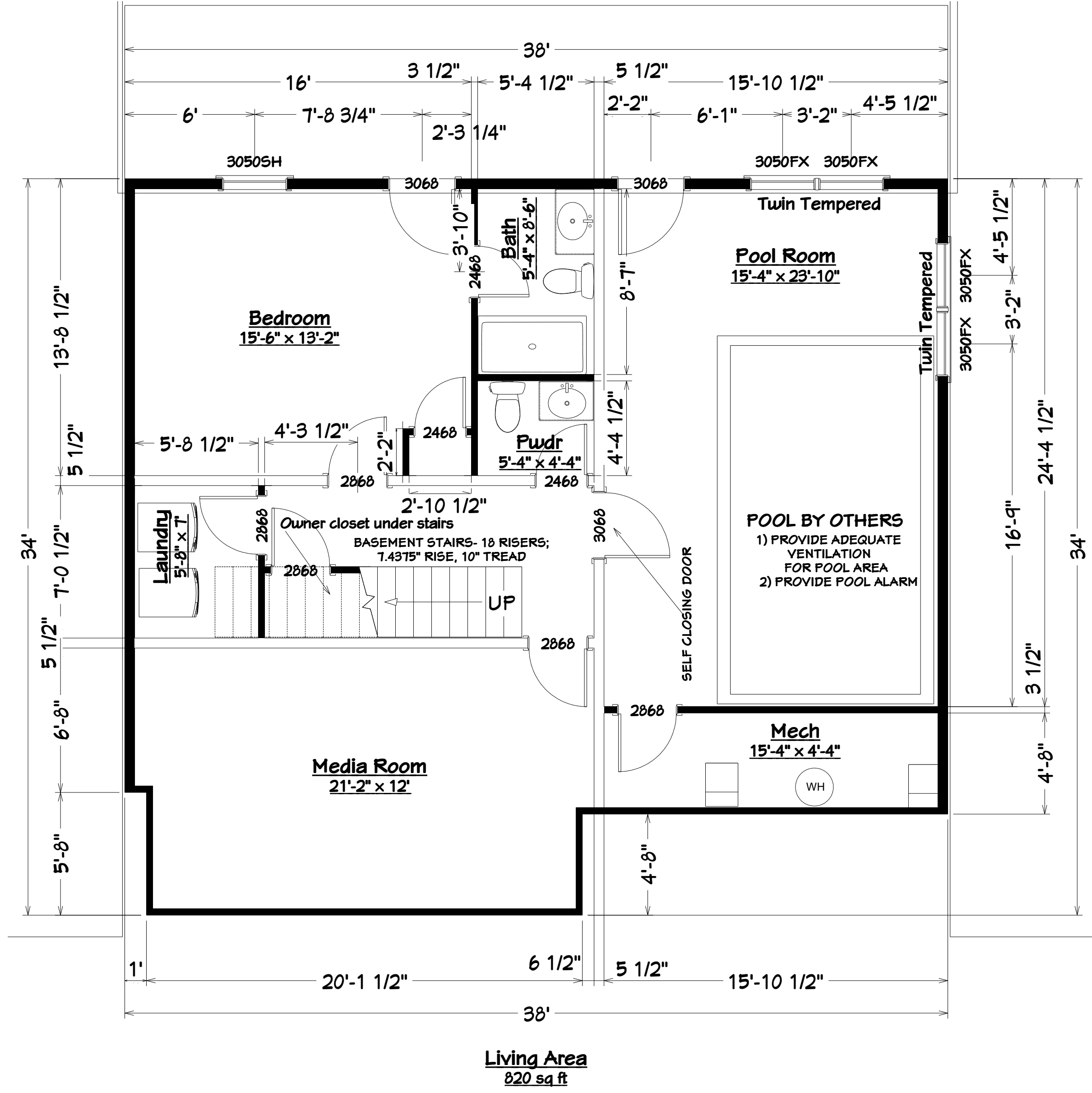
7/22/2022

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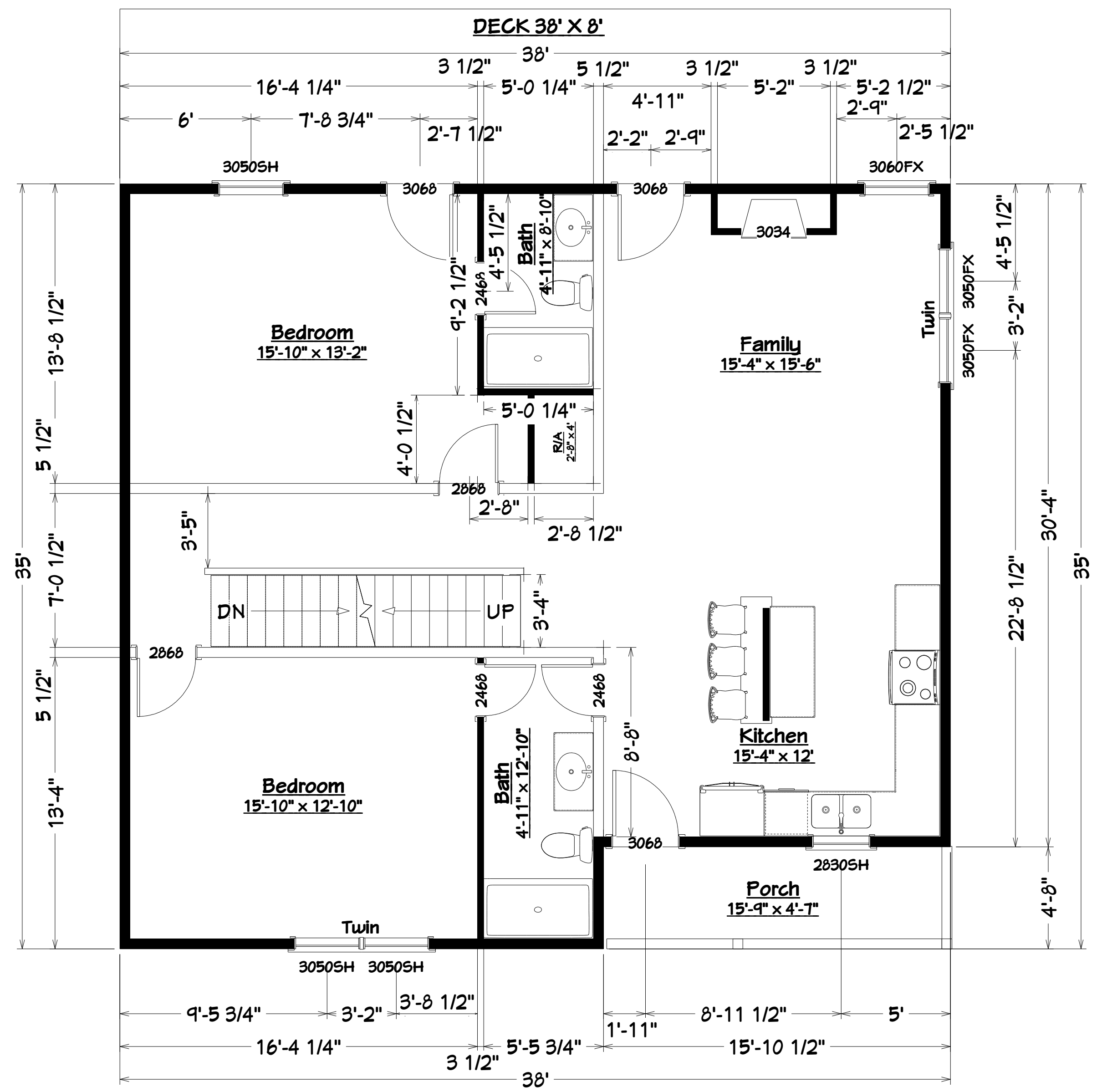
1/4"=1'

SHEET:

A-4



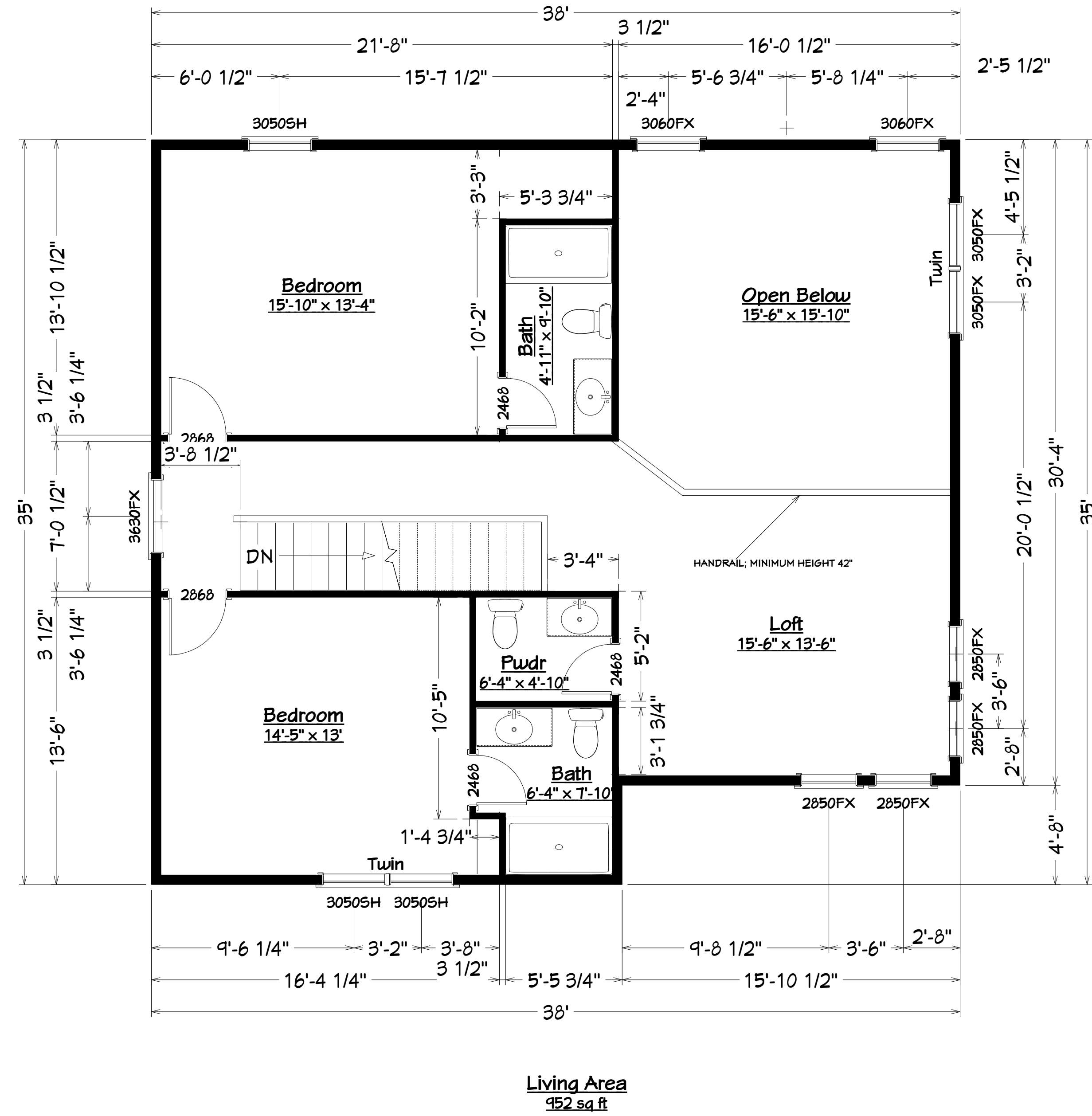
LOWER LEVEL FLOOR PLAN



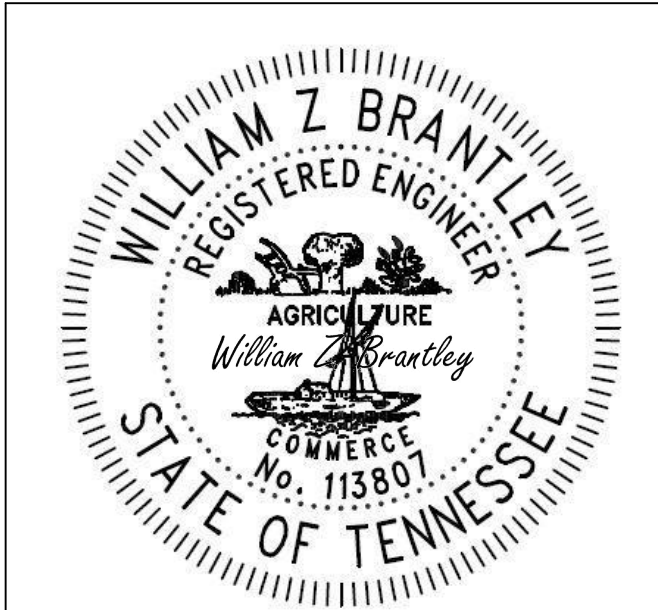
MAIN LEVEL FLOOR PLAN

7/22/2022

WILLIAM Z. BRANTLEY
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UPPER LEVEL FLOOR PLAN



7/22/2022

WILLIAM Z. BRANTLEY
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REVISION TABLE	
NUMBER	DATE

SHEET TITLE:
FLOOR PLANS

ENGINEER:
WILLIAM Z BRANTLEY
423-584-3844
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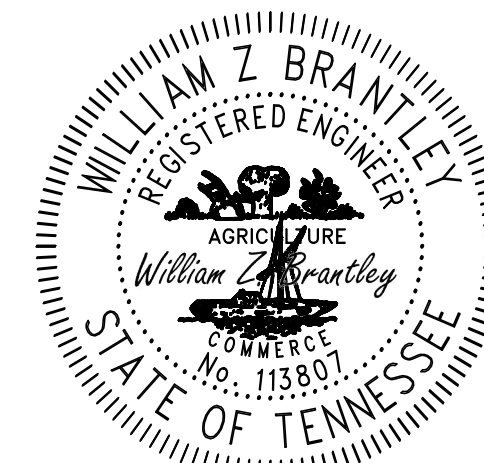
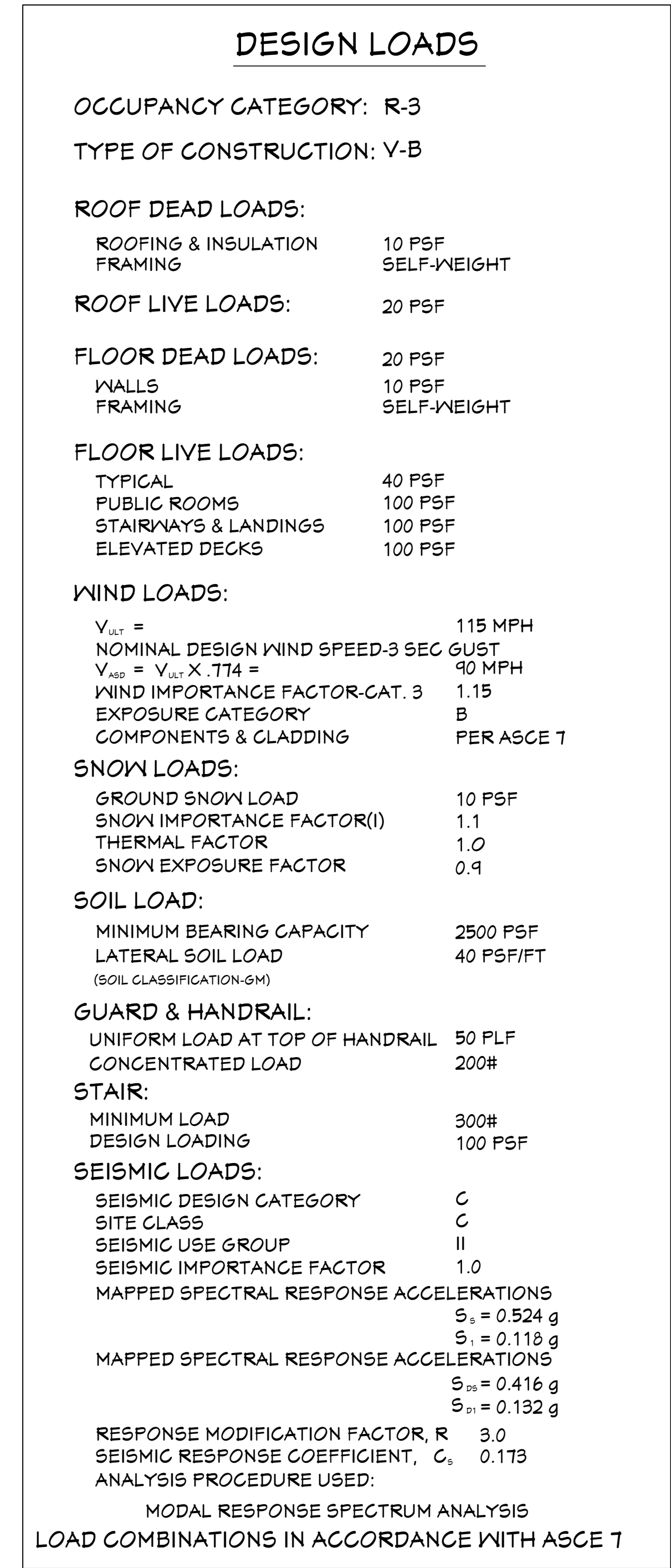
JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37738

OWNER:
TAYLOR MARSHALL

DATE:
7/22/2022

SCALE:
1/4"=1'

SHEET:
A-5



7/22/2022

WILLIAM Z. BRANTLEY
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NO.	DESCRIPTION	BY	DATE

SHEET TITLE:

FOUNDATION PLAN

BUILDER:
KEN LOOMIS CONSTRUCTION

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE TN 37863

OWNER: TAYLOR MARSHALL

DATE:
7/22/2022

SCALE
1/4"=1'

SHEET-

S-1

KEN LOOMIS CONSTRUCTION

**VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863**

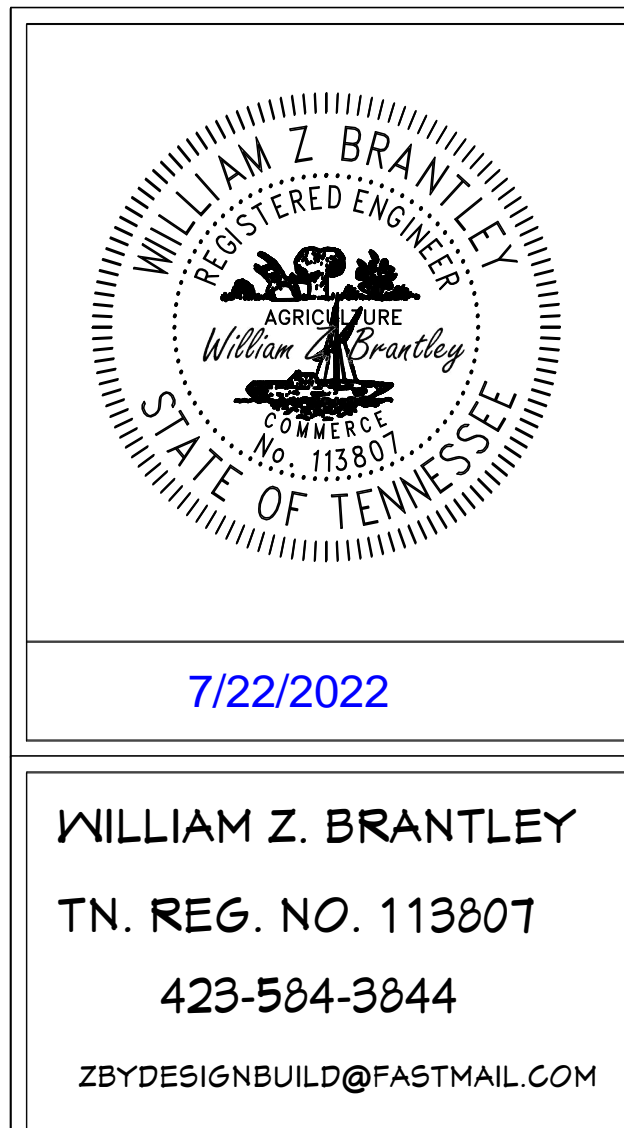
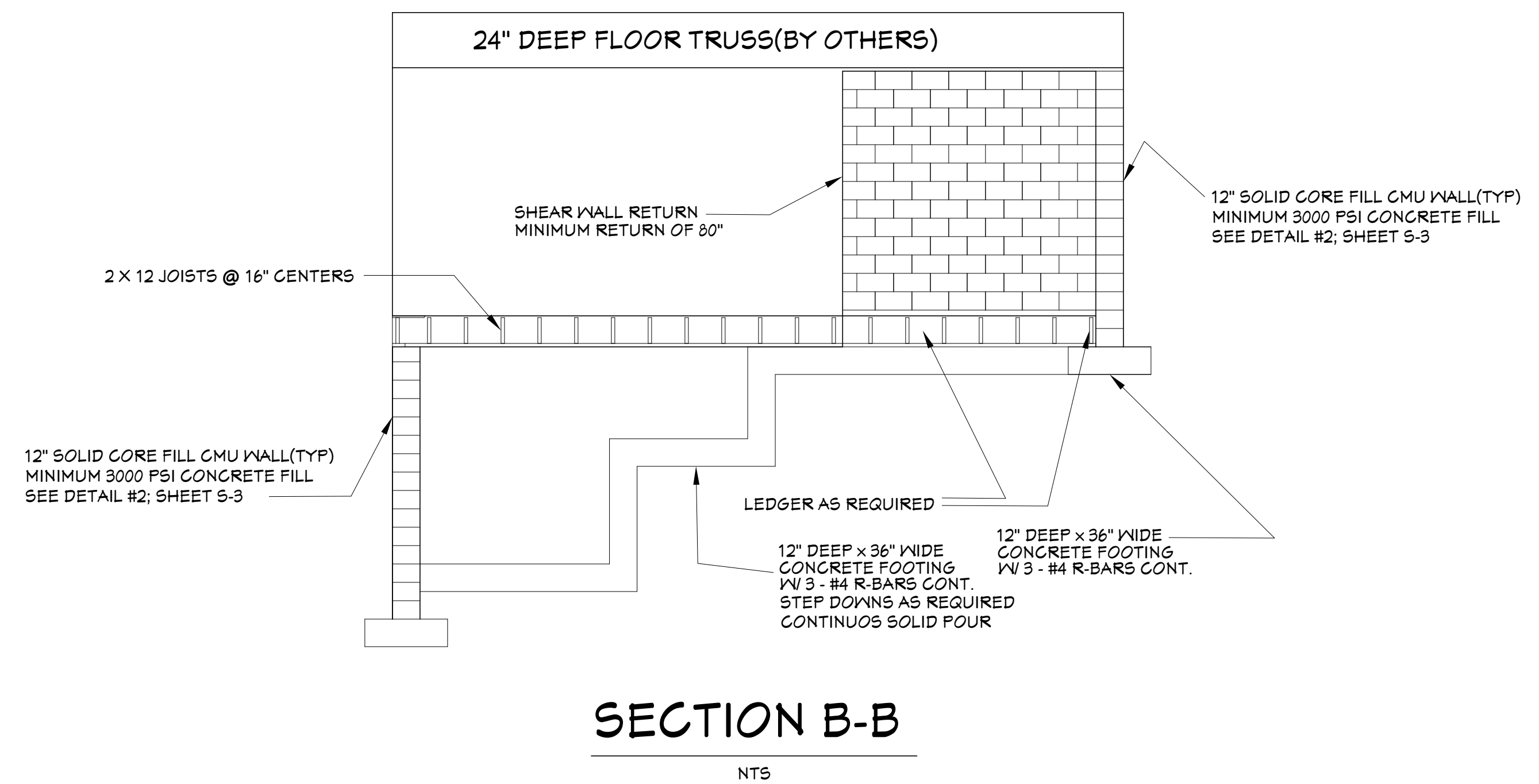
TAYLOR MARSHALL

DATE:
7/22/2022

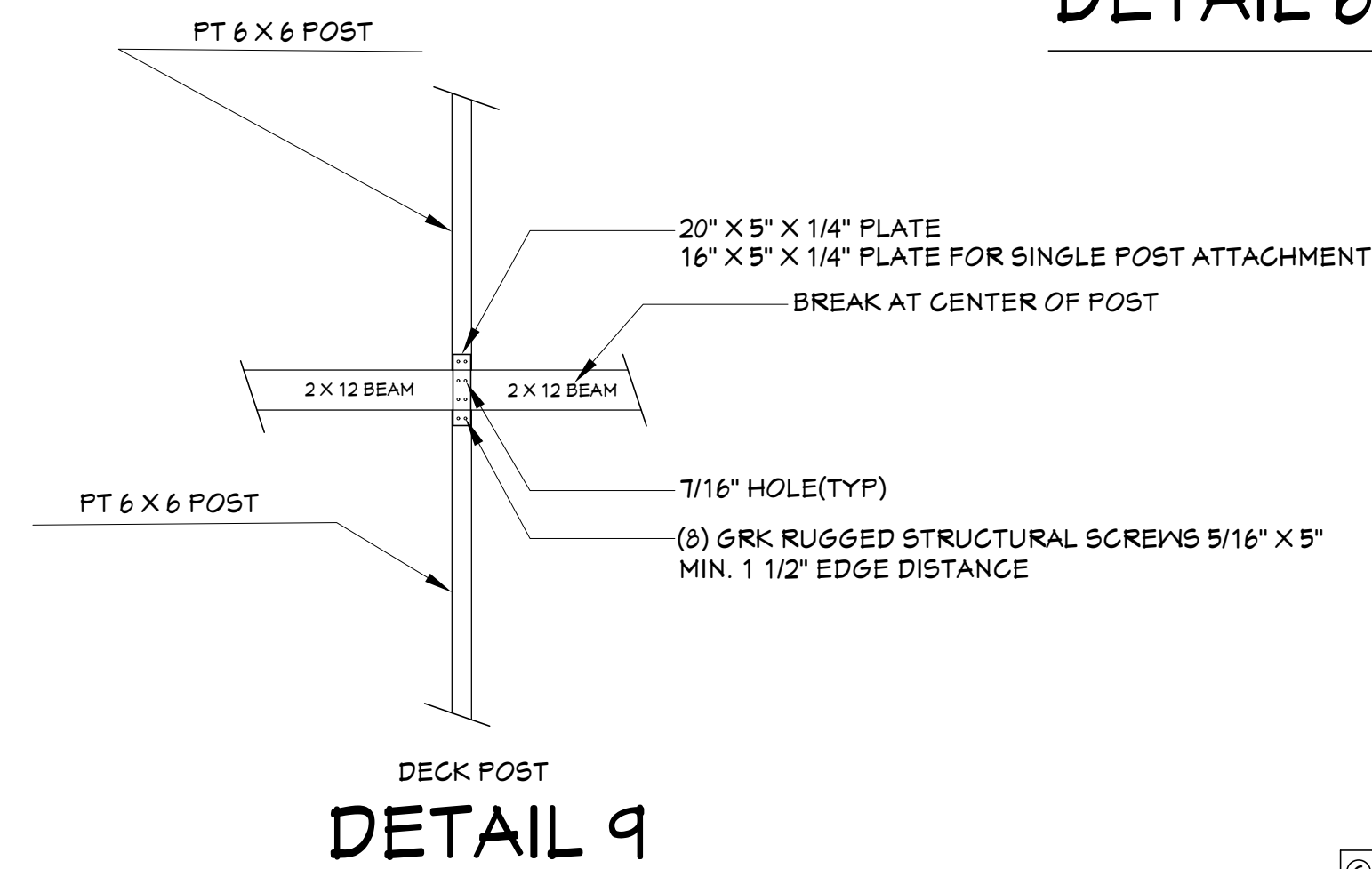
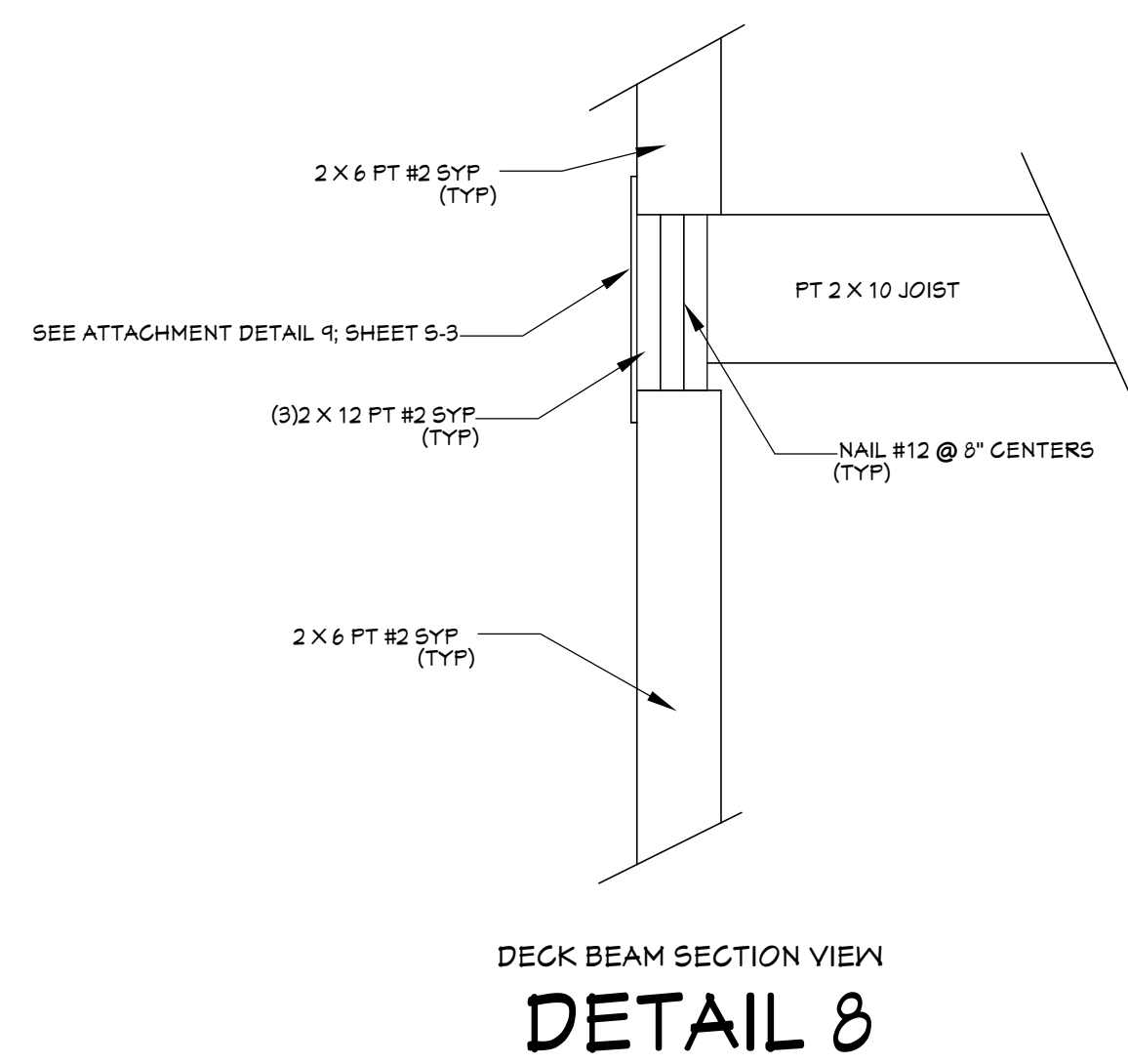
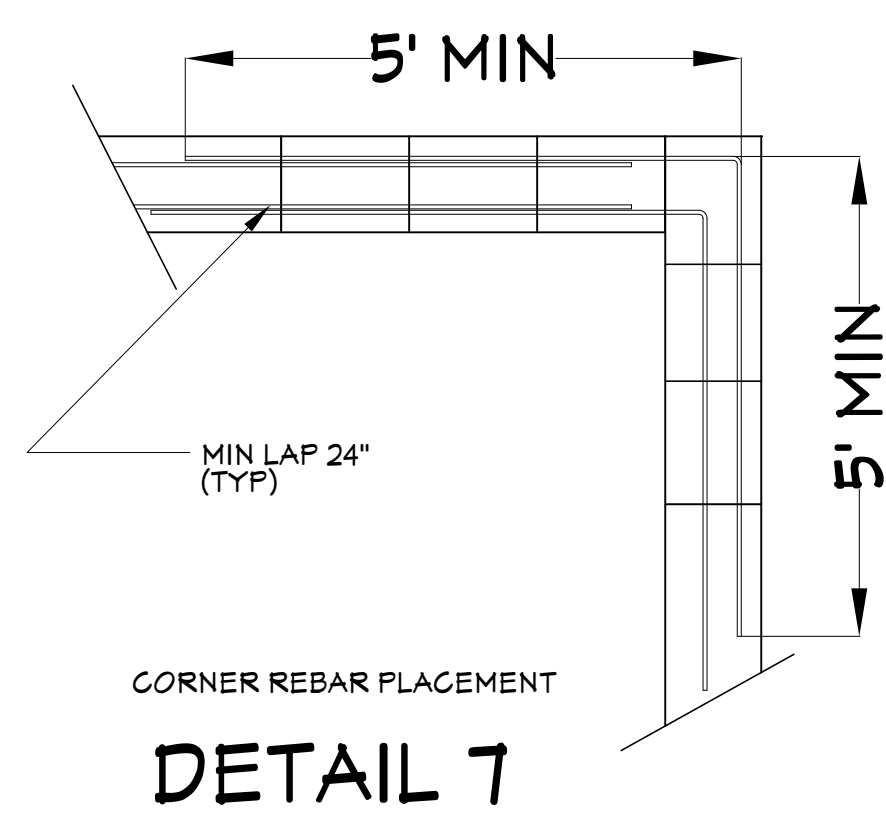
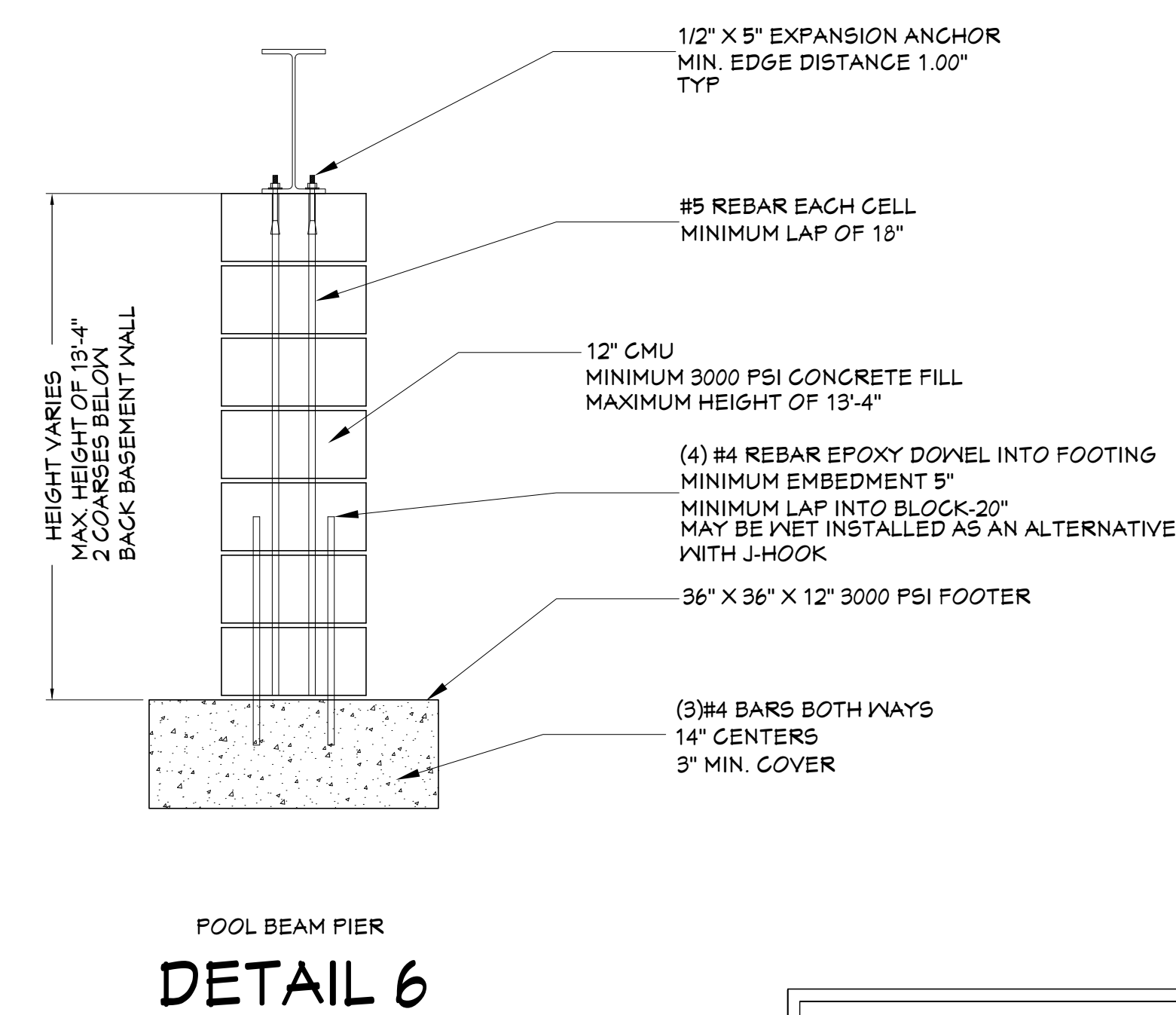
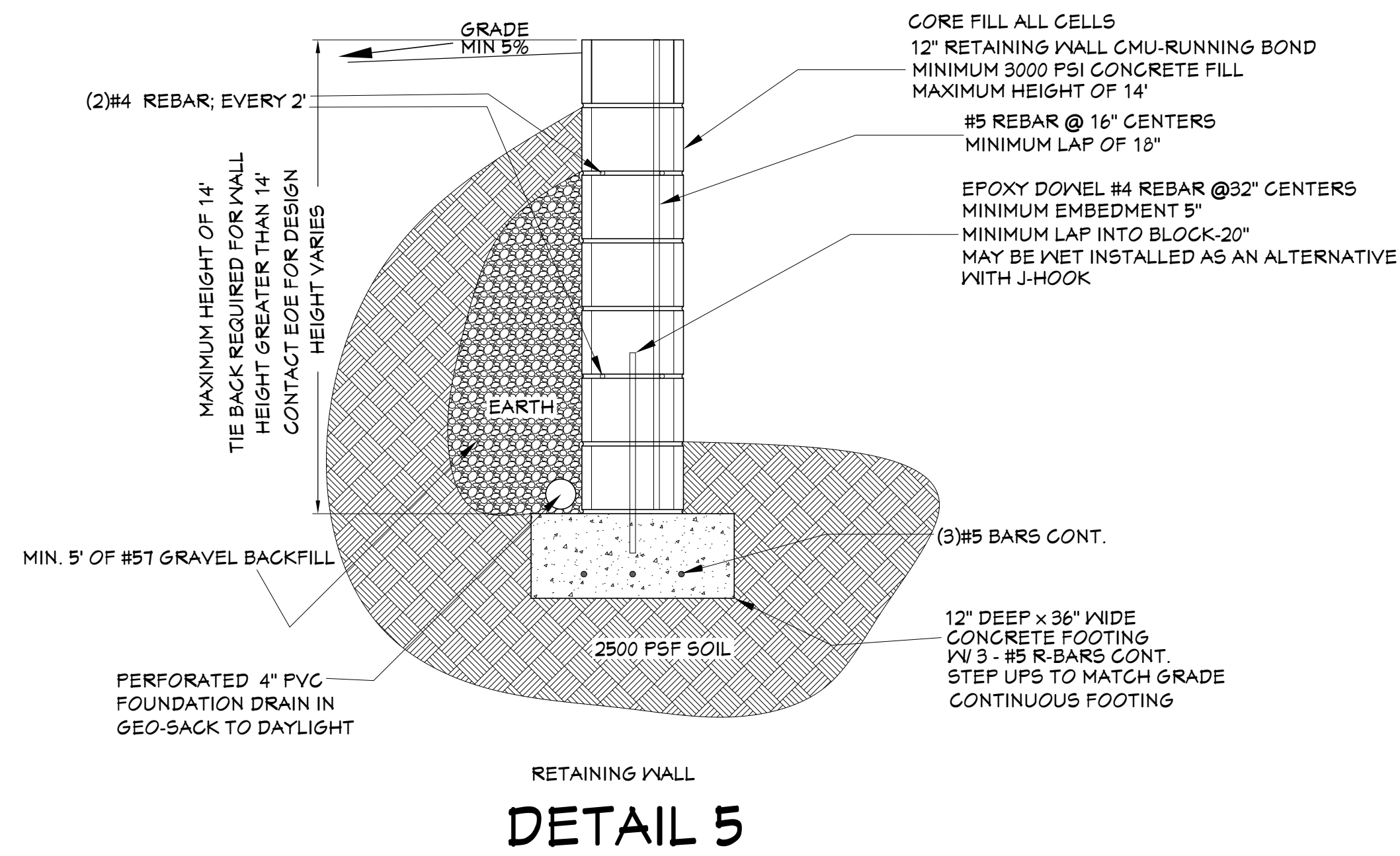
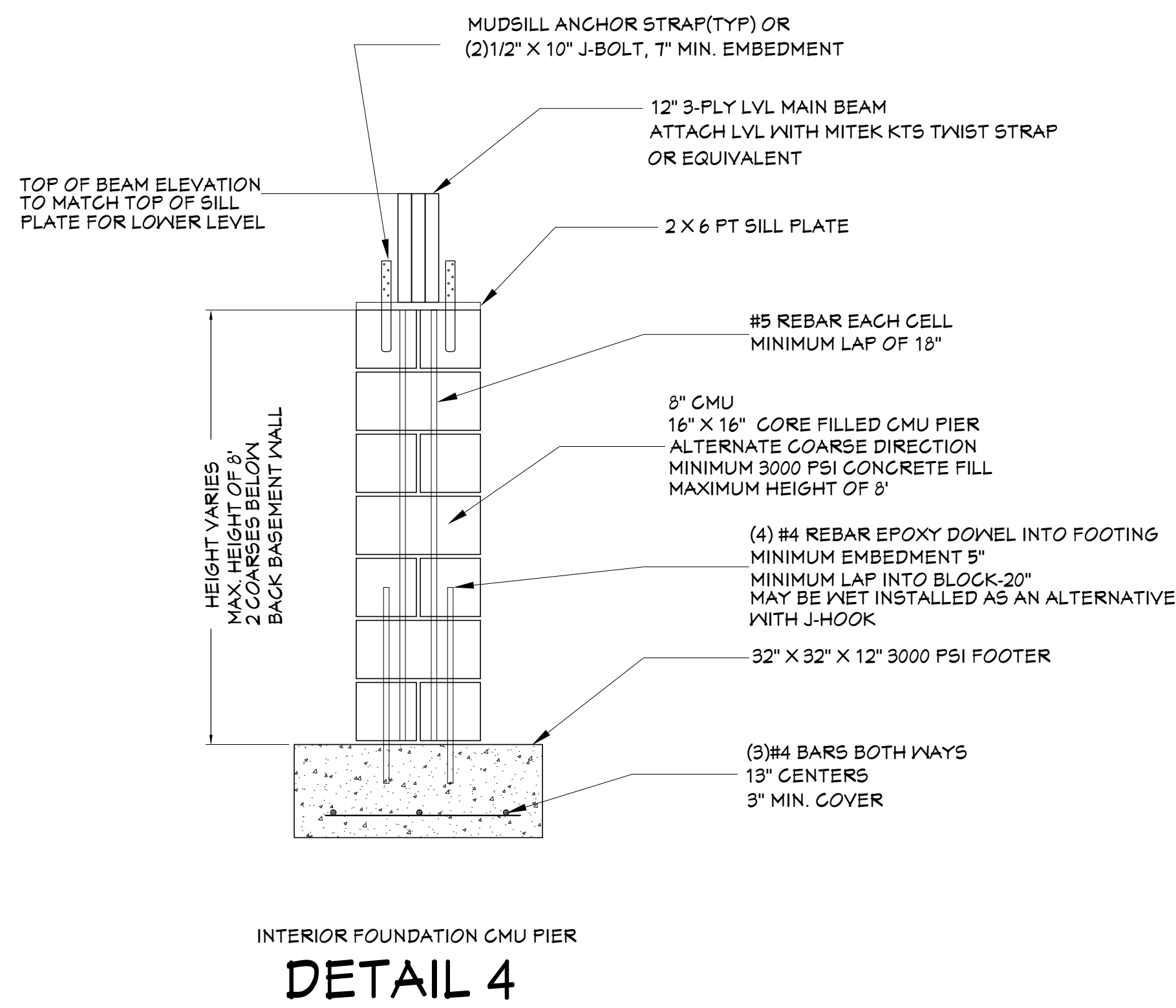
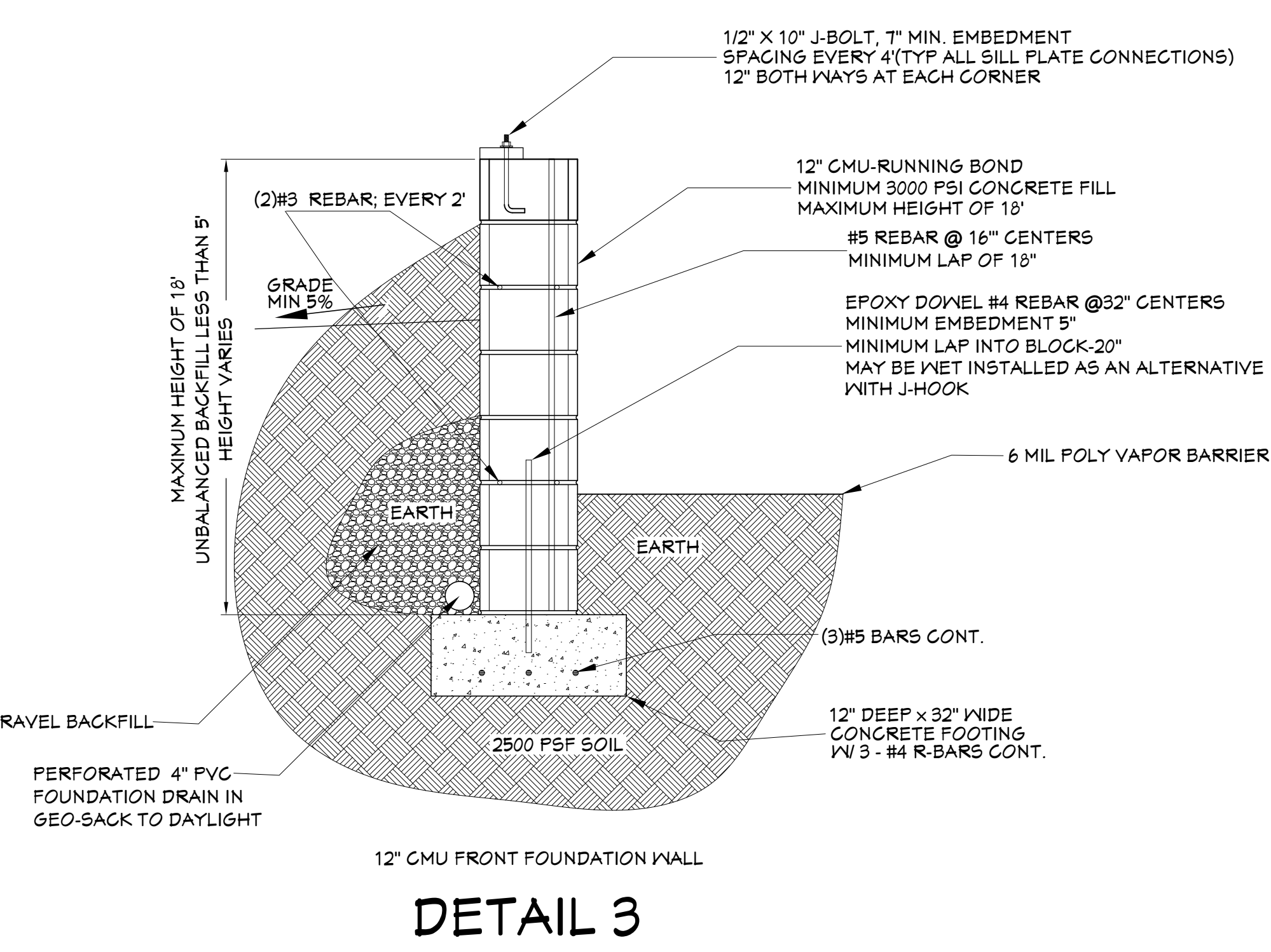
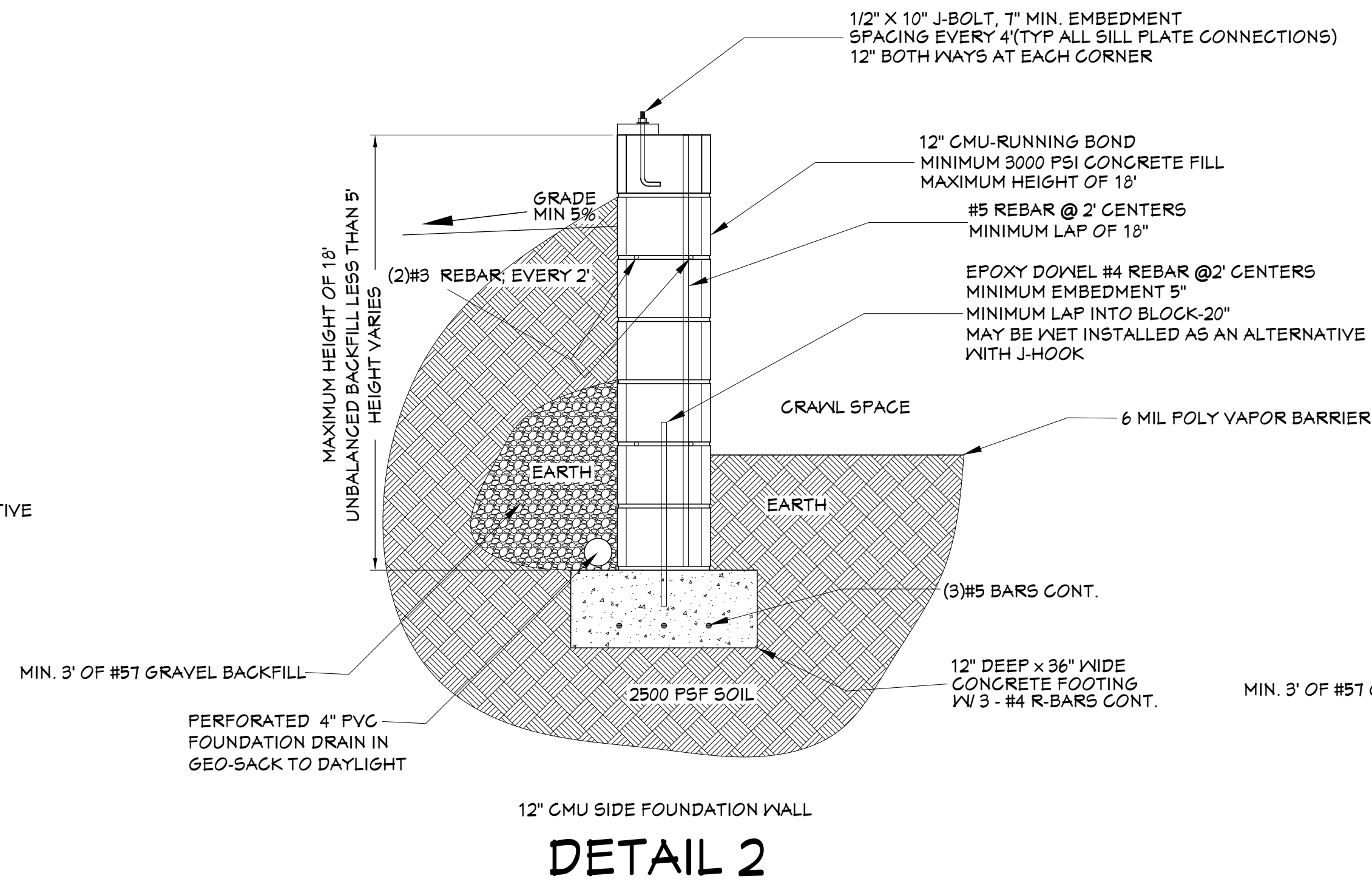
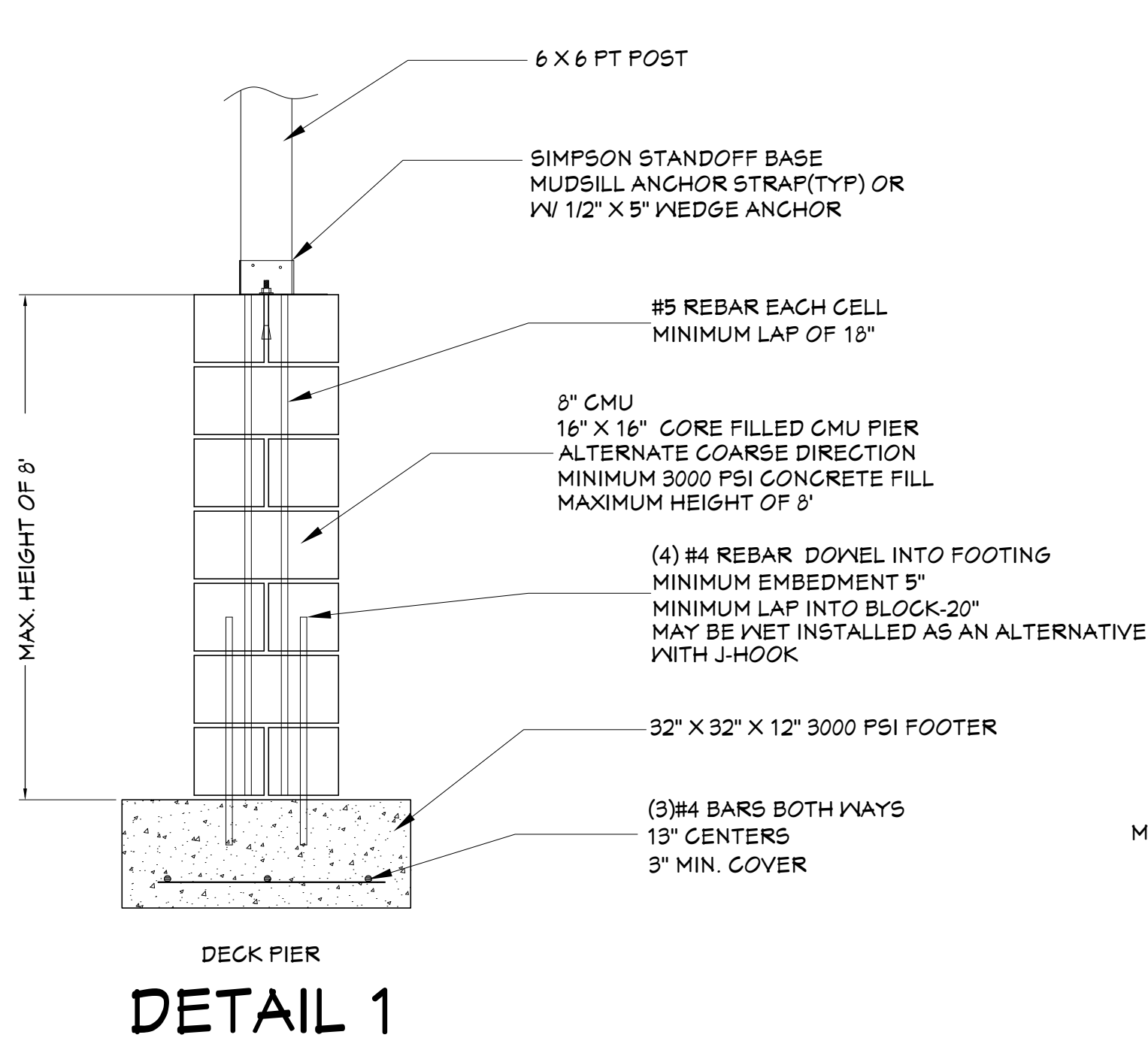
SCALE:
1/4"=1'

SHEET:

S-2



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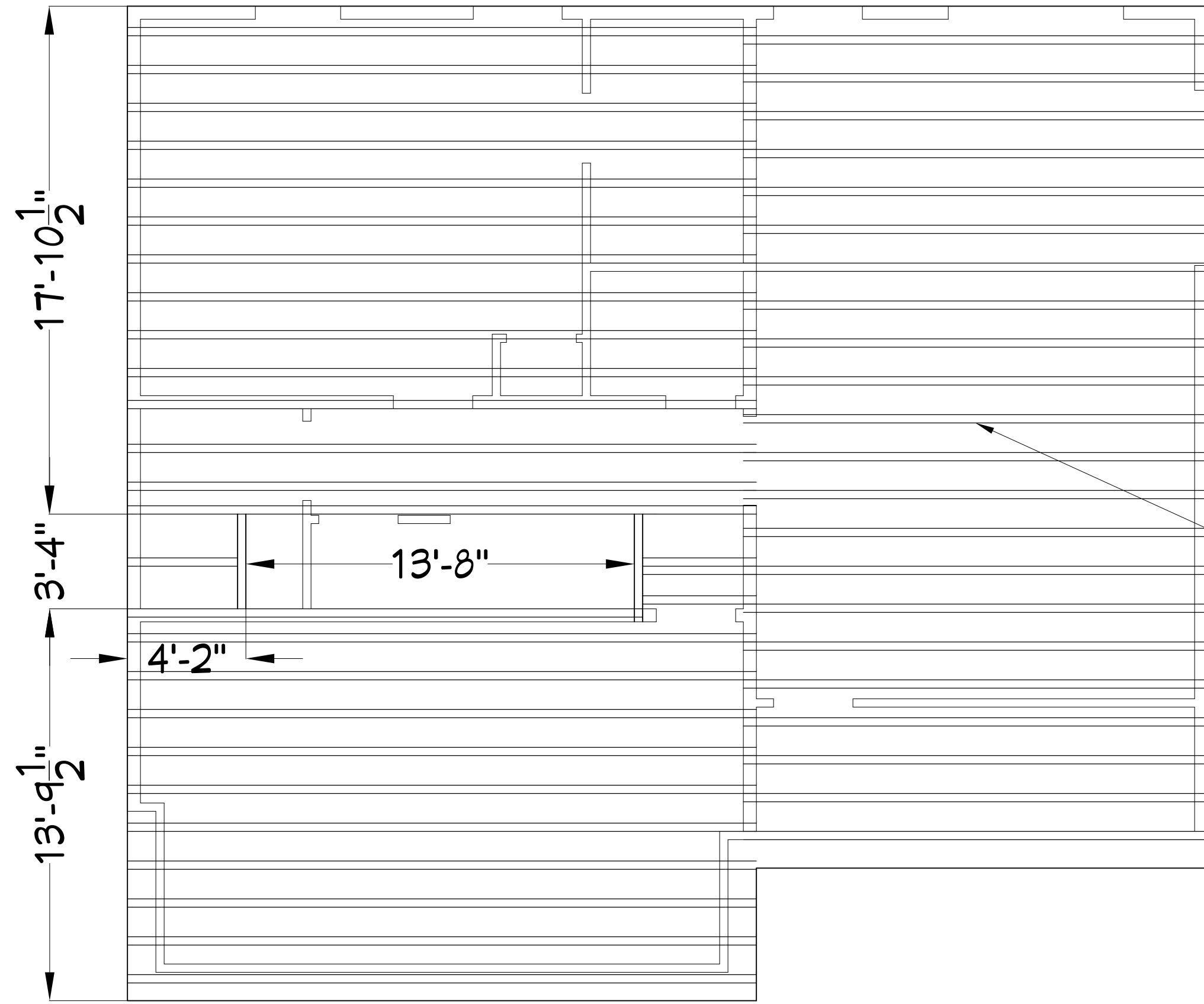


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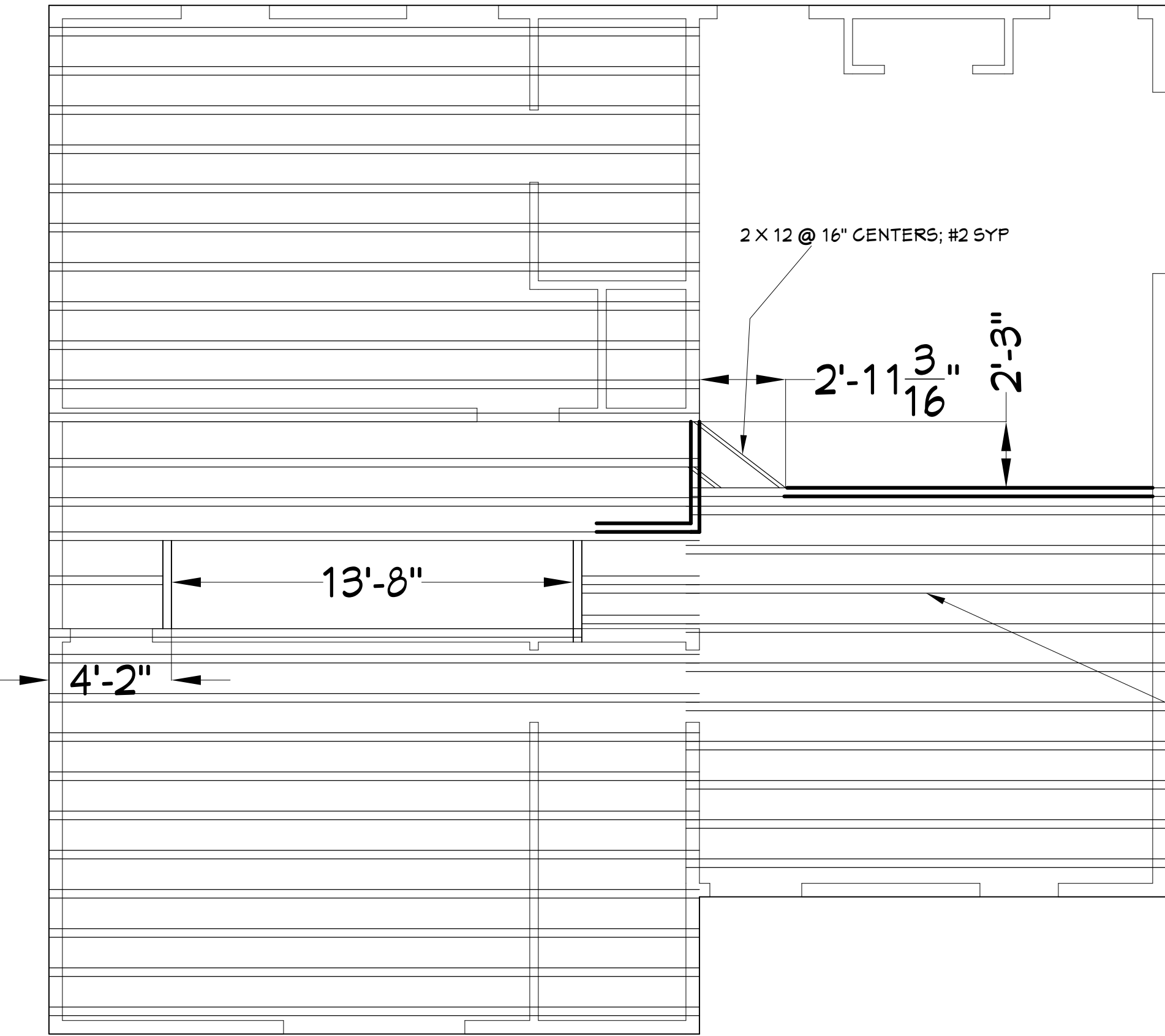
7/22/2022

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ZB DESIGNING 423-584-3844 ZBYDESIGNBUILD@FASTMAIL.COM	
DATE	
BY	
DESCRIPTION	
NO	
SHEET TITLE: DETAILS	
BUILDER: KEN LOOMIS CONSTRUCTION	
JOB ADDRESS: VETERANS OVERLOOK LOT 7 PIGEON FORGE, TN 37863	
OWNER: TAYLOR MARSHALL	
DATE: 7/22/2022	
SCALE: 1/4"=1'	
SHEET: S-3	



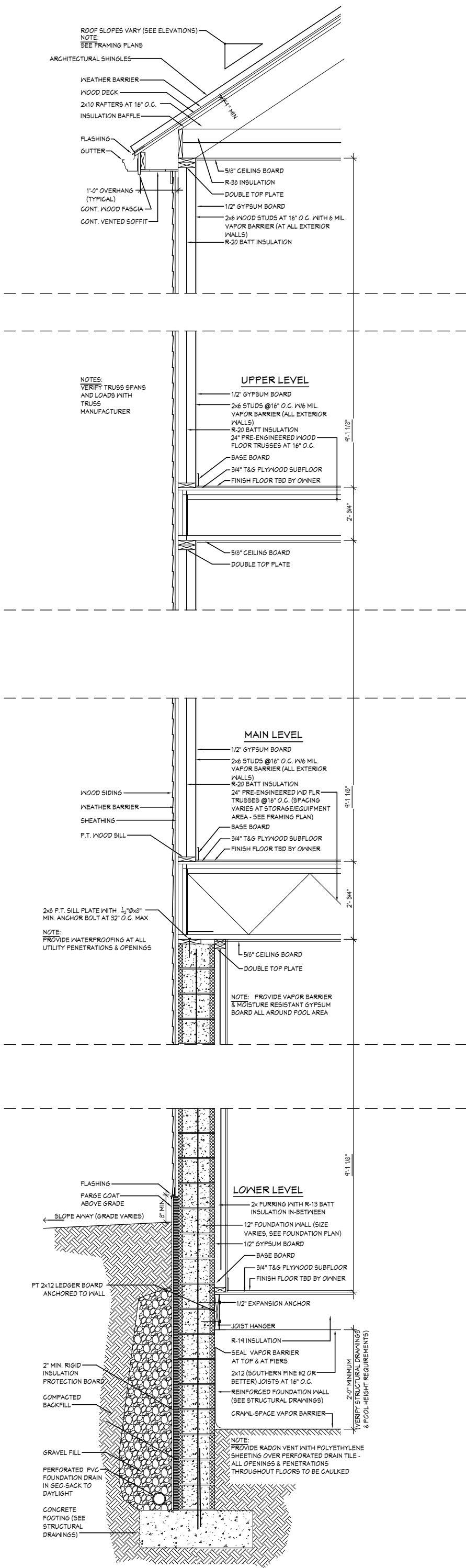
MAIN LEVEL JOIST LAYOUT



UPPER LEVEL JOIST LAYOUT

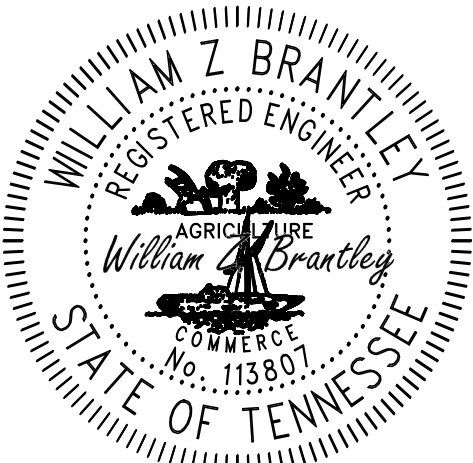
24" DEEP FLOOR TRUSS
FINAL DESIGN BY OTHERS

24" DEEP FLOOR TRUSS
FINAL DESIGN BY OTHERS



TYPICAL WALL SECTION

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423-584-3844
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NO.	DESCRIPTION	BY	DATE

SHEET TITLE:
MAIN LEVEL FLOOR JOISTS
UPPER LEVEL FLOOR JOISTS
TYPICAL WALL SECTION

BUILDER:
KEN LOOMIS CONSTRUCTION

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863

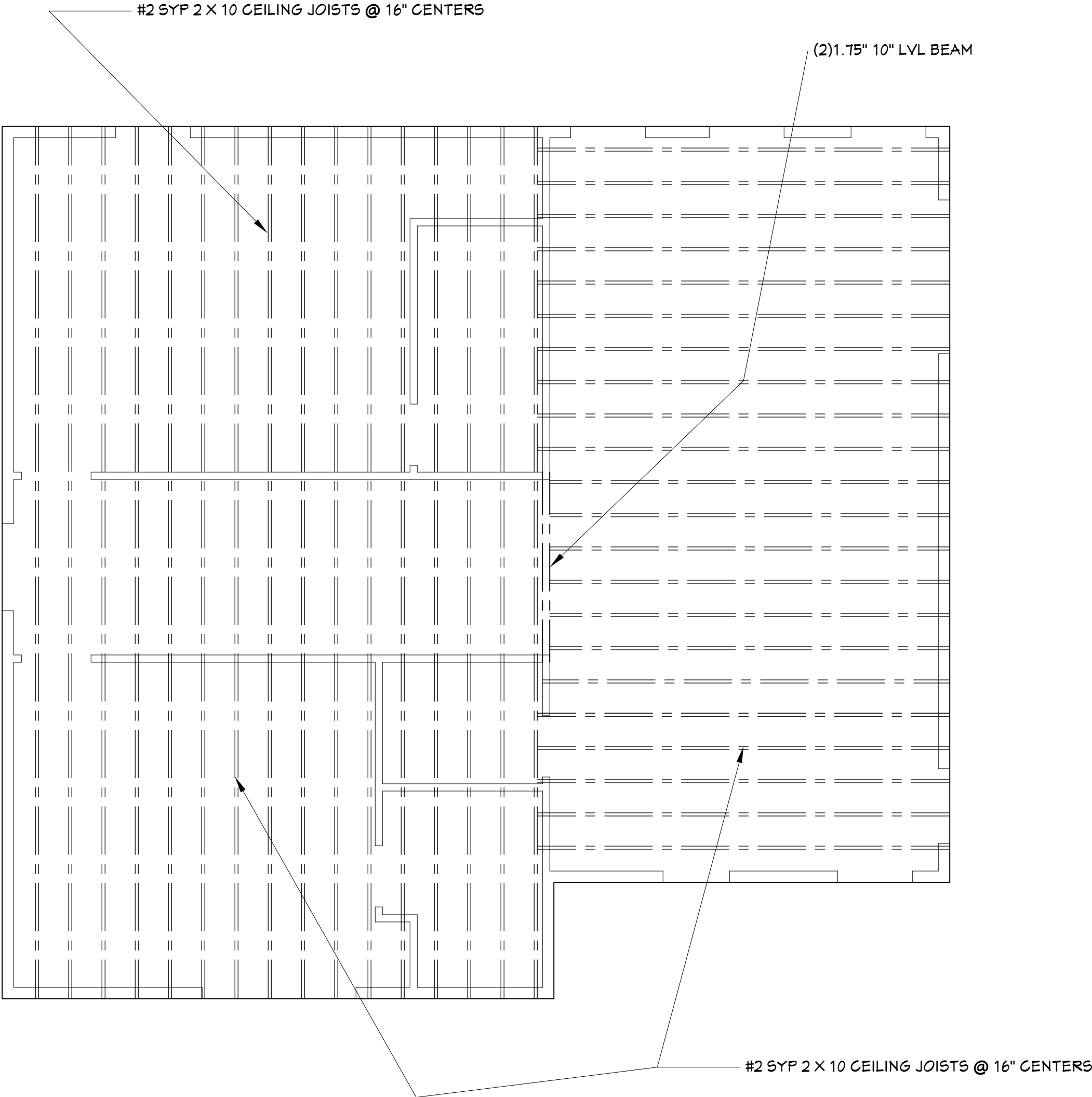
OWNER:
TAYLOR MARSHALL

DATE:
7/22/2022

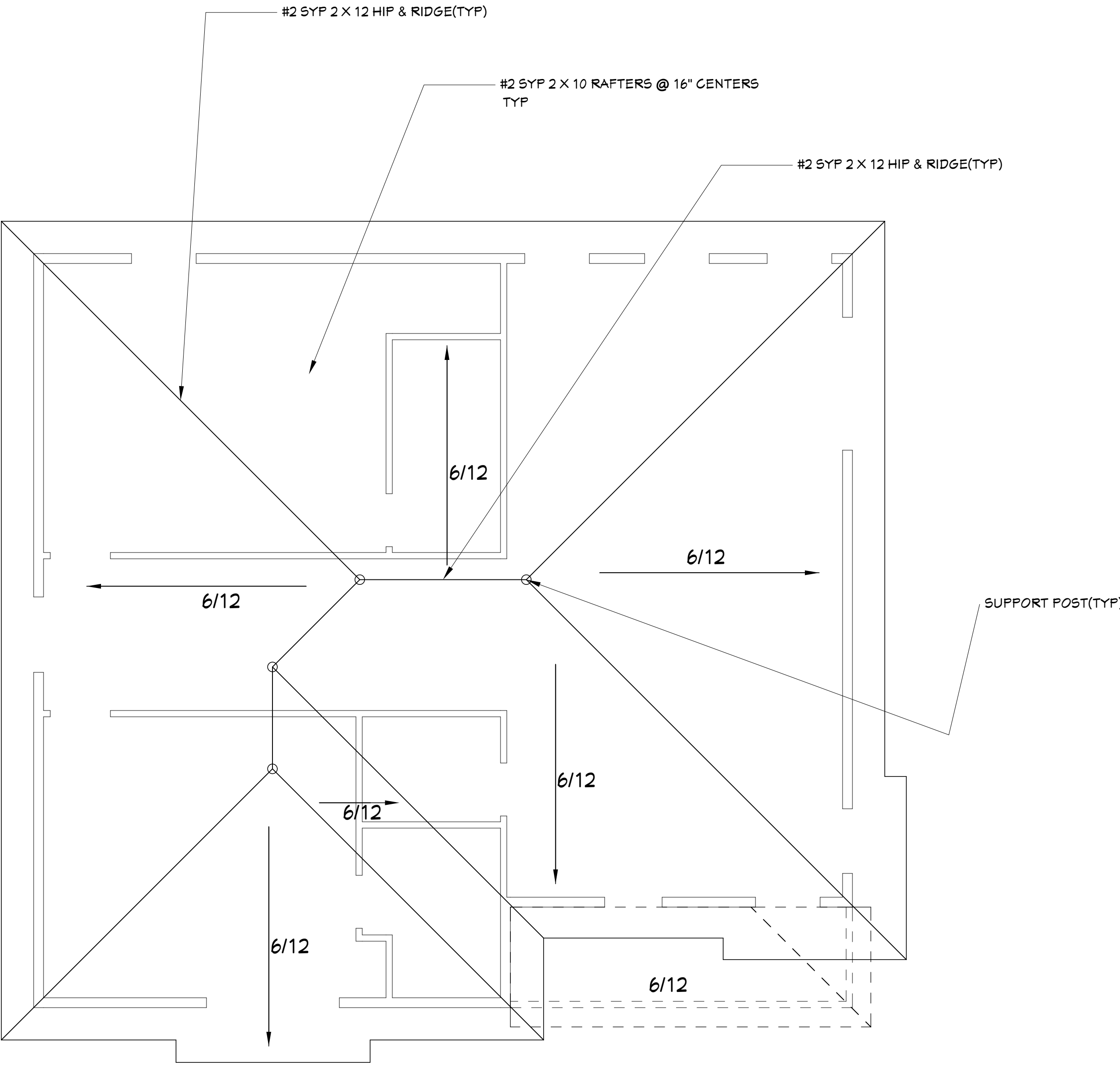
SCALE:
1/4"=1'

SHEET:

S-4

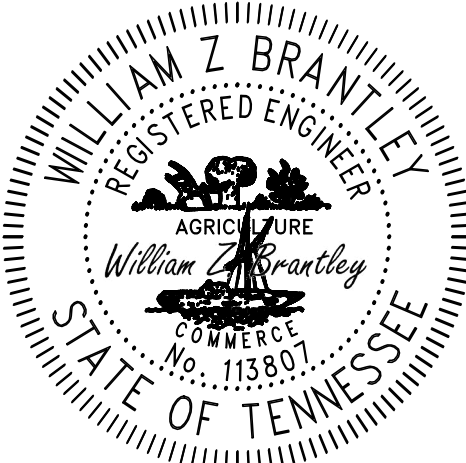


CEILING JOIST LAYOUT




ROOF PLAN

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DESIGNING
423-584-3844
ZBYDESIGNBUILD@FASTMAIL.COM

NO.	DESCRIPTION	BY	DATE

SHEET TITLE:

CEILING JOIST LAYOUT
ROOF PLAN

BUILDER:

KEN LOOMIS CONSTRUCTION

JOB ADDRESS:

VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863

OWNER:

TAYLOR MARSHALL

DATE:

7/22/2022

SCALE:

1/4"=1'

SHEET:

S-5

NO.	DESCRIPTION	BY	DATE

SHEET TITLE:
DECK LAYOUT

BUILDER:
KEN LOOMIS CONSTRUCTION

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863

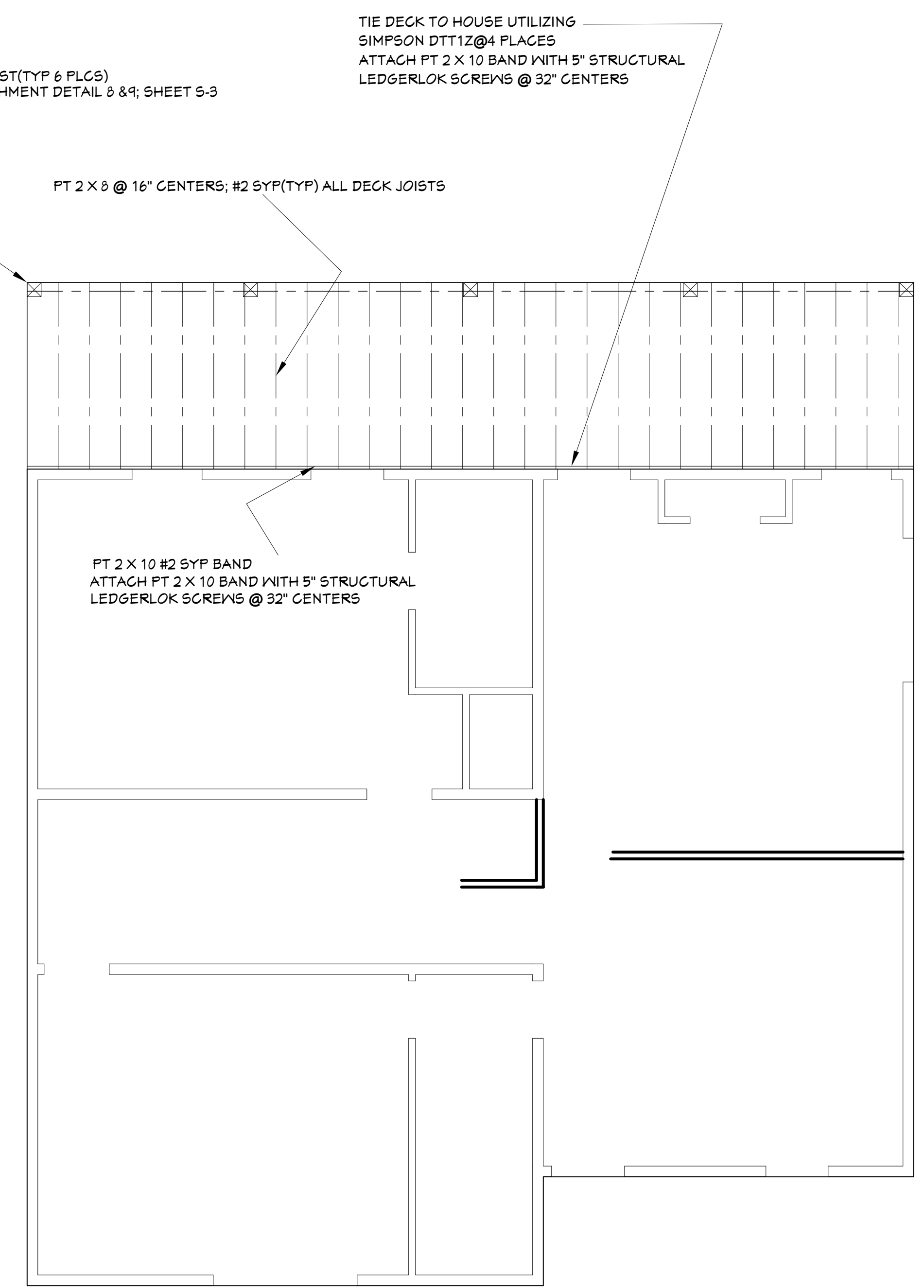
OWNER:
TAYLOR MARSHALL

DATE:
7/22/2022

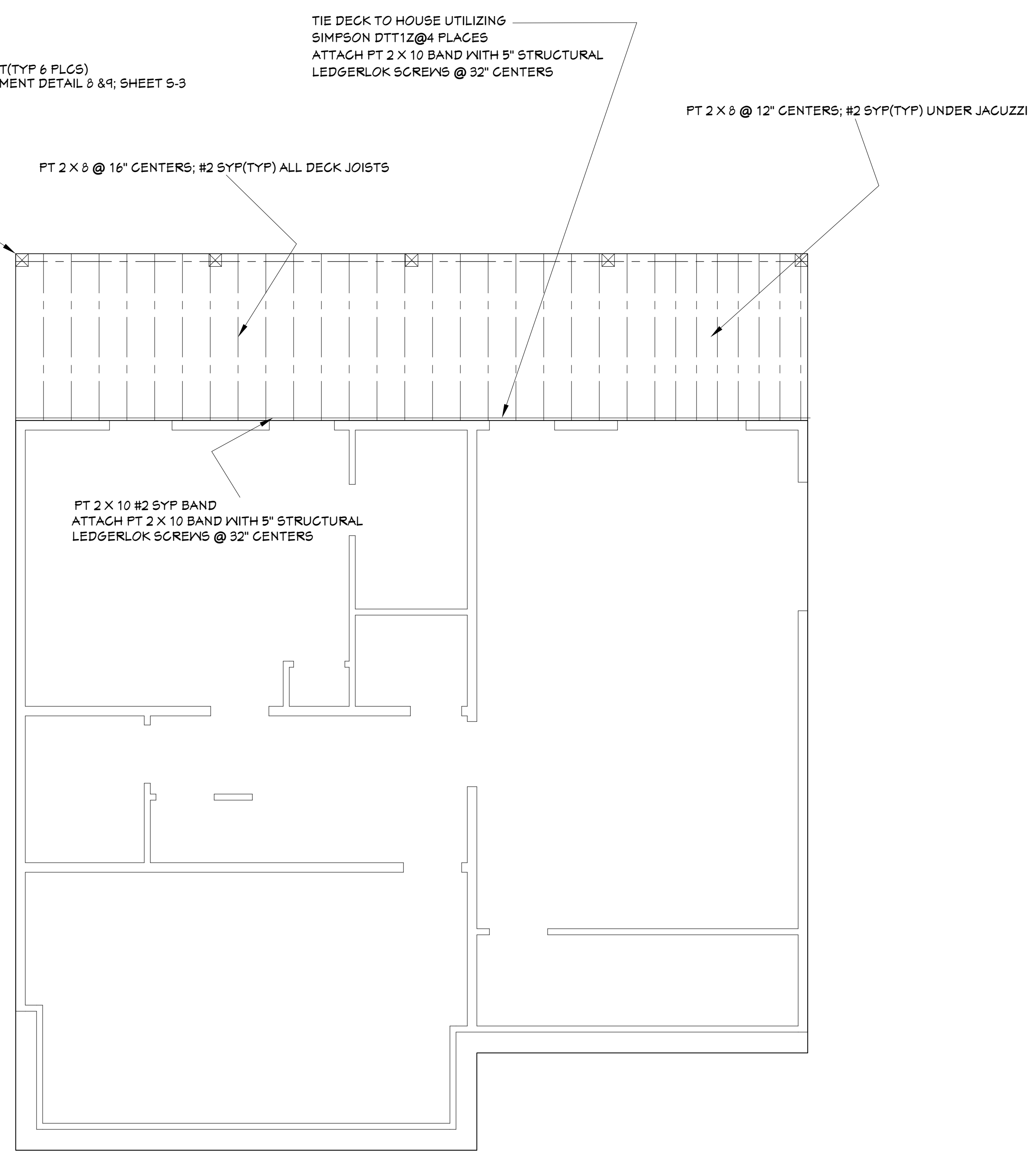
SCALE:
1/4"=1'

SHEET:

5-6

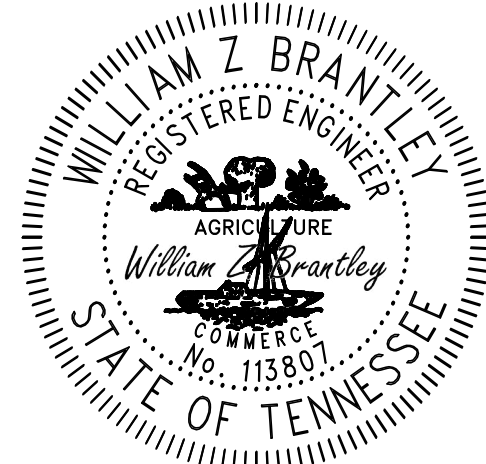


MAIN LEVEL DECK JOISTS



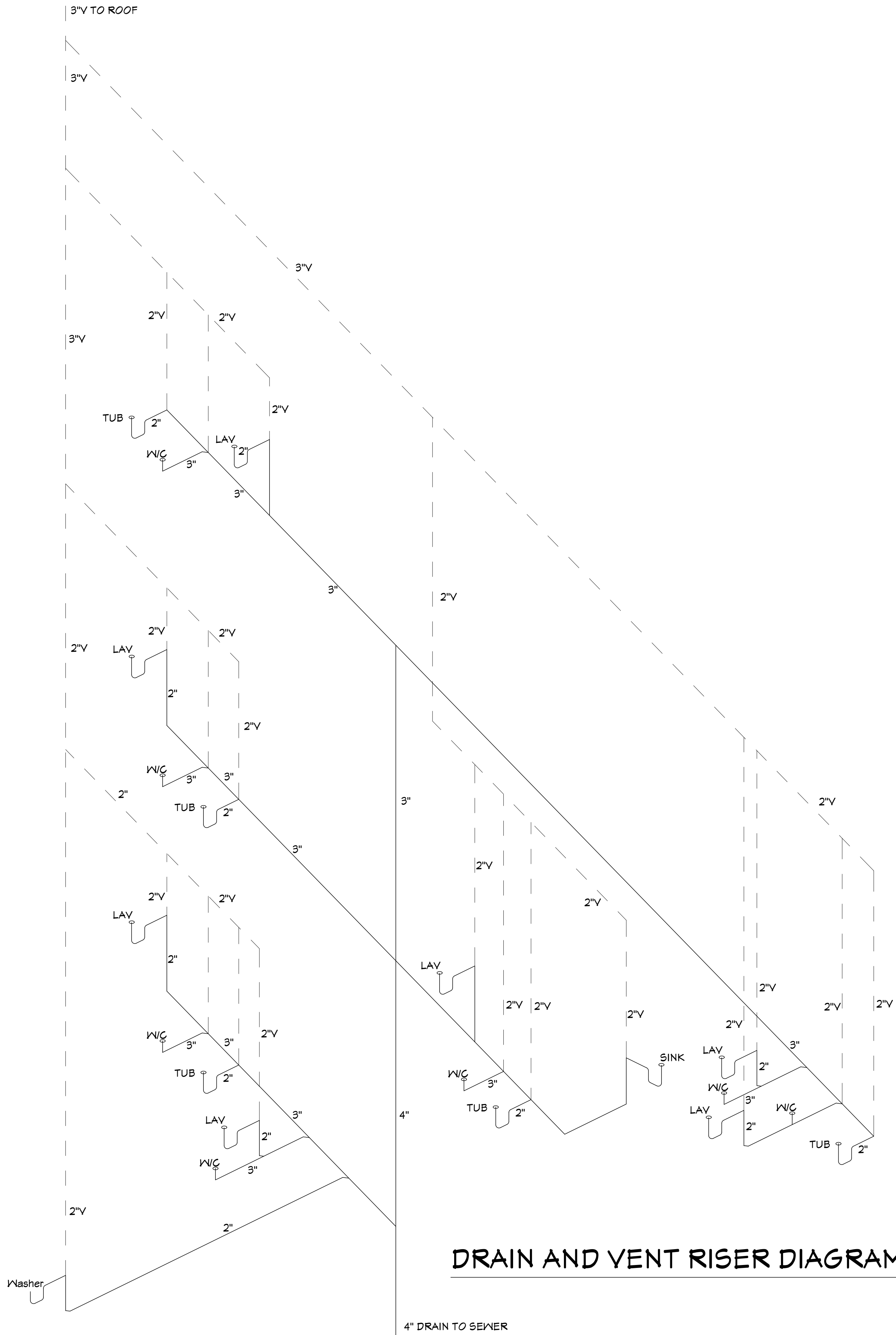
LOWER LEVEL DECK JOISTS

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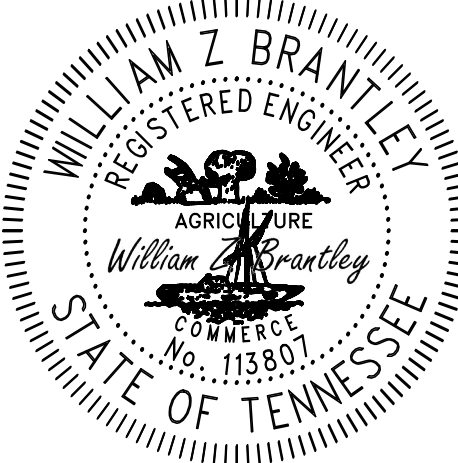
7/22/2022

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Drain and vent riser diagram

Plumbing Schedule		
Room	Item	Quantity
BATH 1	Tub/Shower	1
	Water Closet	1
	Vanity Sink	1
BATH 2	Water Closet	1
	Vanity Sink	1
LAUNDRY	Drain	1
	Tub/Shower	1
	Water Closet	1
BATH 3	Water Closet	1
	Vanity Sink	1
	Tub/Shower	1
BATH 4	Tub/Shower	1
	Water Closet	1
	Vanity Sink	1
KITCHEN	Kitchen Sink	1
	Tub/Shower	1
	Water Closet	1
BATH 5	Water Closet	1
	Vanity Sink	1
	Tub/Shower	1
BATH 6	Tub/Shower	1
	Water Closet	1
	Vanity Sink	1
BATH 7	Water Closet	1
	Vanity Sink	1
	Water Heater	1
	Sewer Tap	1



7/22/2022

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DESIGNENG
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NO.	DESCRIPTION	BY	DATE

SHEET TITLE:
DRAIN & VENT RISER

BUILDER:
KEN LOOMIS CONSTRUCTION

JOB ADDRESS:
VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863

OWNER:
TAYLOR MARSHALL

DATE:
7/22/2022

SCALE:
NTS

SHEET:
MEP-1

MAIN VOLUME							
HOME SQ. FT. =	2032	SQ. FT.	DUCT SUPPLIED				
AVERAGE CEILING HEIGHT=	9	FT	SIZE	#	CFM	CFM TOTAL	GRILL SIZE
HOME TOTAL VOLUME=	18288	CF	4"	0	36	0	2 X 10
			5"	4	55	220	4X8
ACTUAL UNIT TONNAGE=	6		6"	2	100	200	4X10
			7"	9	130	1170	4X12
UNIT TOTAL CFM=	1400	CFM	8"	0	200	0	6 X 14
HOME TOTAL CFM=		CFM	SUPPLIED TOTAL CFM=		1590		
USAGE FACTOR	99.38%		SUPPLIED DUCT VELOCITY=		675.16		

RETURN AIR GRILLE SIZE			
tons=	4		
400 cfm per ton =q	1600 cfm		
r/a=	W= 40		in
r/a=	L= 25		in
a=	1000 sq. in		
a=	6.94 sq. ft.		
q=v/a;	v=q/a		
	v=	230.4	fpm
NO GREATER THAN 400			

RETURN DUCT SIZE			
tons=	2		
400 cfm per ton =q	800 cfm		
ROUND DUCT DIA.=	D= 18		in
	D= 1.50		FT
a=	a= 2.36		SQ. FT.
q=v/a;	v=q/a	339.70	fpm
NO GREATER THAN 700			

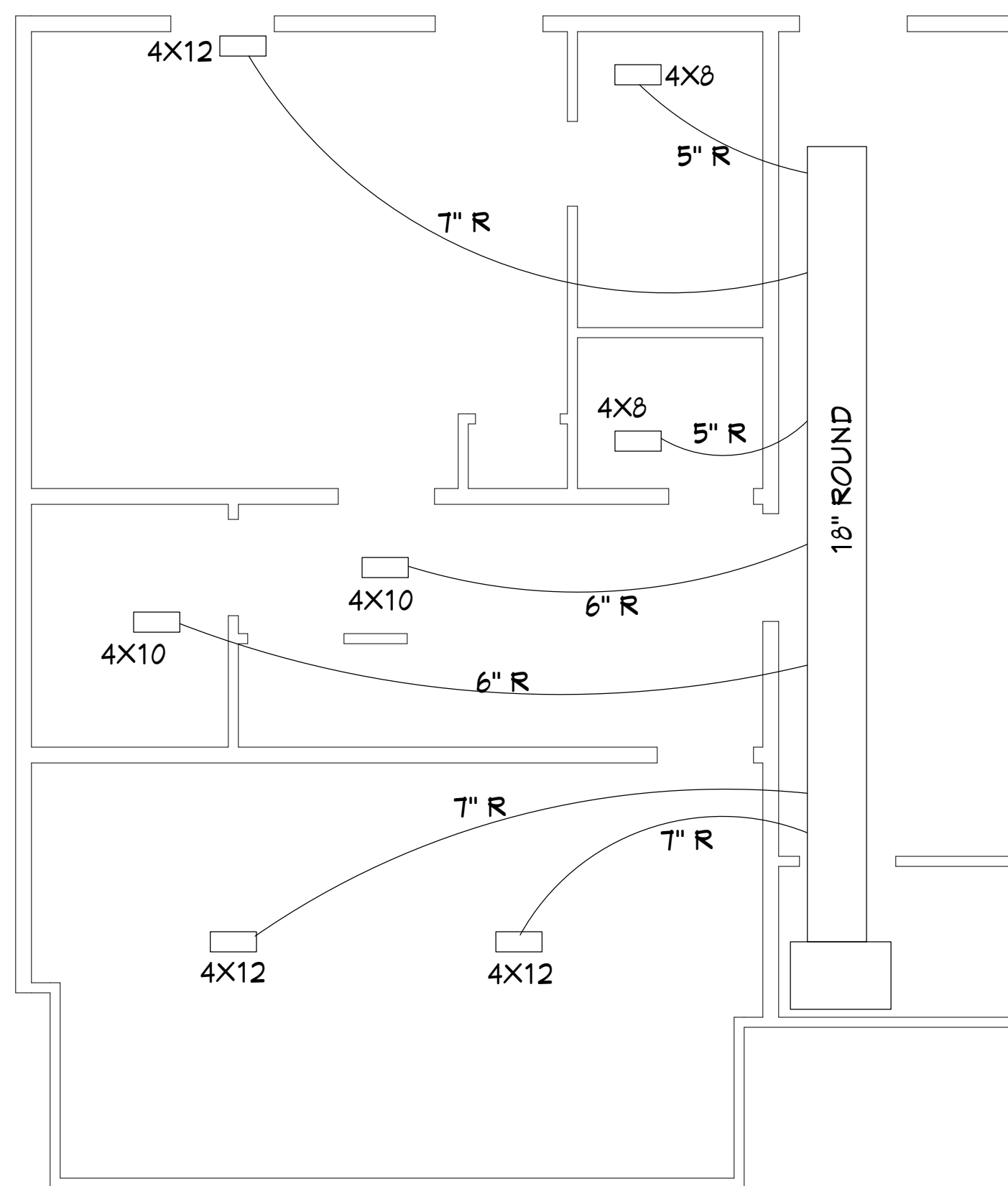
SUPPLY DUCT SIZE			
tons=	4		
400 cfm per ton =q	1600 cfm		
ROUND DUCT DIA.=	D= 18		in
	D= 1.50		FT
	a= 2.36		SQ. FT.
q=v/a;	v=q/a	679.41	fpm
NO GREATER THAN 900			

		MAN VOLUME		DUCT SUPPLIED				
HOME SQ. FT. =	652	SQ. FT.		SIZE	A	CFM	CFM TOTAL	
AVERAGE CEILING HEIGHT =	9	FT		4"	4	35	0	GRILL SIZE
HOME TOTAL VOLUME =	6568	CF		5"	3	55	165	2 X 10
				6"	0	100	0	4X10
ACTUAL UNIT TONNAGE =	2			7"	0	130	520	4X10
				8"	0	200	0	6 X 14
UNIT TOTAL CFM =	800	CFM						
HOME TOTAL CFM =		CFM					685	
USAGE FACTOR =	65.65%			SUPPLIED DUCT VELOCITY =				327.23

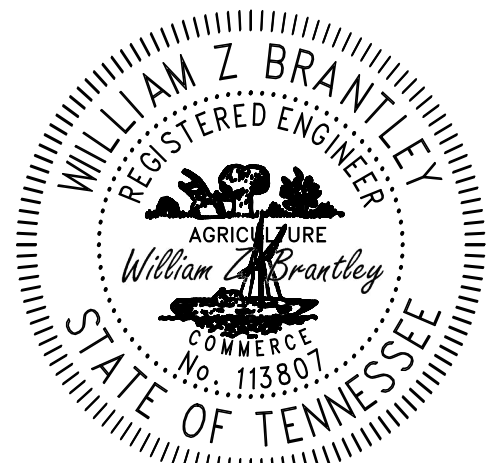
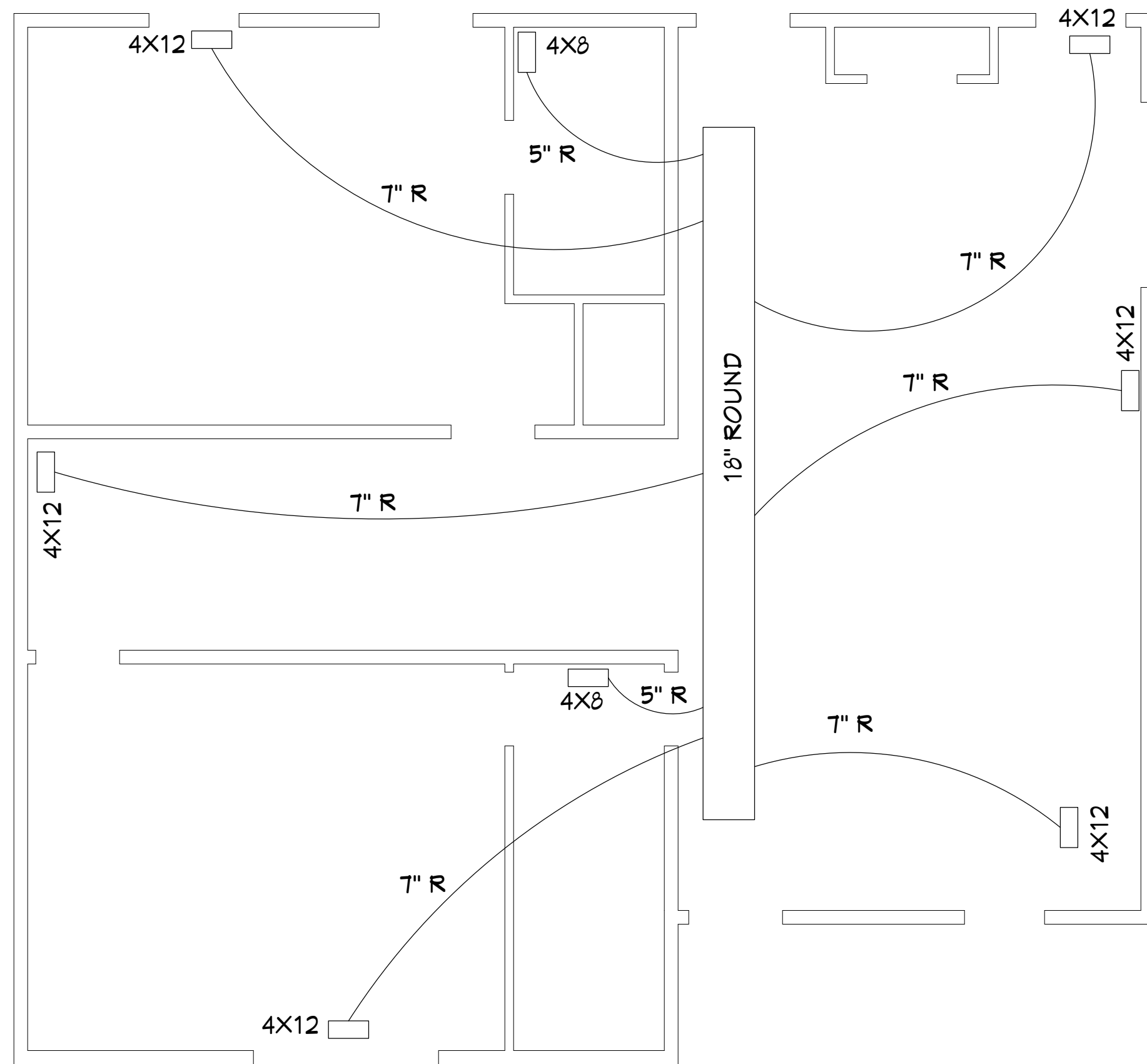
RETURN AIR GRILLE SIZE							
tons =		2					
400 cfm per ton = q		800 cfm					
r/a =		W =		20		in	
r/a =		L =		25		in	
a =		500 sq. in					
		3.47 sq. ft.					
q = va;		v = q/a					
		v =		230.4		fpm	
NO GREATER THAN 400							

RETURN DUCT SIZE							
tons =		2					
400 cfm per ton = q		800 cfm					
ROUND DUCT DIA. =		D =		18		in	
		D =		1.50		FT	
		a =		2.36		SQ. FT.	
q = va;		v = q/a		382.17		fpm	
NO GREATER THAN 700							

SUPPLY DUCT SIZE							
tons =		2					
400 cfm per ton = q		800 cfm					
ROUND DUCT DIA. =		D =		16		in	
		D =		1.33		FT	
		a =		2.09		SQ. FT.	
q = va;		v = q/a		382.17		fpm	
NO GREATER THAN 900							

[illegible]

MAIN LEVEL



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HVAC LAYOUT

KEN LOOMIS CONSTRUCTION

VETERANS OVERLOOK
LOT 7
PIGEON FORGE, TN 37863

TAYLOR MARSHALL

DATE:
1/22/2022

SCALE:
POINTS

HEET:

REP-2