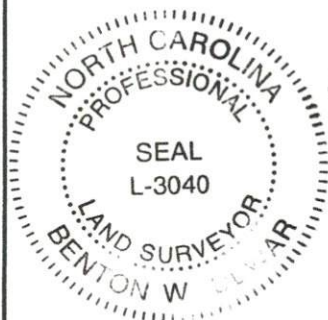


(NTS)
VICINITY MAP

LEGEND:
EIP - EXISTING IRON PIPE
EIS - EXISTING IRON STAKE
R/W - RIGHT OF WAY
NTS - NOT TO SCALE
SF - SQUARE FEET
DB - DEED BOOK
PC - PLAT CABINET
PROP - PROPOSED
PG - PAGE
UP - UTILITY POLE
OHL - OVERHEAD LINES

N 12°32'44"E 880.32'
TIE TO CENTERLINE
INTERSECTION OF STOCKYARD RD
AND RAY BYRD RD

NOTES:
AREA BY COORDINATES
NO HORIZONTAL CONTROL FOUND WITHIN 2000'
THIS SURVEY DID NOT HAVE THE BENEFIT OF A TITLE
REPORT AND IS SUBJECT TO MATTERS THAT IT MAY
DISCLOSE
THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD
AREA PER F.E.M.A. MAP #3720054800J; EFF DATE:
10/03/2006 ZONE X
PROPERTY SUBJECT TO BOTH ABOVE AND OR BELOW
GROUND UTILITIES AND OR EASEMENTS
CALL 811 BEFORE AND DIGGING OR CONSTRUCTION
PROPERTY ZONED RA-20R HARNETT COUNTY
SETBACKS
FRONT - 35'
SIDE - 10'
REAR - 25'
CORNER - 20'
PROPERTY IS LOCATED IN WS-IV-P CAPE FEAR RIVER DUNN



I, BENTON W. DEWAR CERTIFY THAT THIS PLAT WAS DRAWN UNDER
MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY
SUPERVISION; THAT THE RATIO OF PRECISION IS 1: N/A
THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES
PLOTTED FROM INFORMATION FOUND IN BOOK MAP 200
PAGE 292; THAT THIS PLAT DOES NOT MEET SIZE REQUIREMENTS
FOR RECORDING IN THE REGISTER OF DEEDS. PER G.S. 47-30 AS AMENDED.
LICENCE NUMBER AND SEAL THIS 4th DAY OF JUNE 2025

Benton W. Dewar
PROFESSIONAL LAND SURVEYOR L-3040

THIS PLAT MAY NOT BE A CERTIFIED SURVEY AND HAS
NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR
COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS
AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH
RECORDING REQUIREMENTS FOR PLATS.

STOCKYARD ROAD

APPROX.
6" WATER
LINE

VICTOR CORTEX RAMIREZ
DB 4260 PG 2675

25,099 SF
0.576 AC

JASSO PROPERTIES INC
DB 4245 PG 2604

ROSEANNA M COVINGTON
PIN # 0558-29-4429.000
DB 1176 PG 206

JORDAN TEMPLE CHURCH
PIN #0558-29-5494.000
DB 2238 PG 813
MAP #2006-304

PROPOSED PLOT
DANIEL JAS

1029 STOCKYARD
LILLINGTON, NC 2
DEED BOOK 4260
MAP # 2020 - 2
LOT 3 MINOR SUE
GUILLERMO JASSO
PIN # 0558-29-
LILLINGTON TOWNS
HARNETT COUNTY
SCALE: 1' = 60'

BENTON DEWAR & A
PROFESSIONAL LAND
5920 HONEYCUTT RD
HOLLY SPRINGS, NC
(919)-552-9813

Area Schedule (Elevation 1)		Area Schedule (Elevation 2)		Area Schedule (Elevation 3)		Area Schedule (Elevation 4)	
Name	Area	Name	Area	Name	Area	Name	Area
Heated		Heated		Heated		Heated	
1st Floor	1166 SF	1st Floor	1166 SF	1st Floor	1166 SF	1st Floor	1166 SF
	1166 SF		1166 SF		1166 SF		1166 SF
Unheated		Unheated		Unheated		Unheated	
Front Porch	30 SF	Front Porch	30 SF	Front Porch	30 SF	Front Porch	94 SF
	30 SF		30 SF		30 SF		94 SF
Under Roof	1196 SF	Under Roof	1196 SF	Under Roof	1196 SF	Under Roof	1260 SF

Sheet List	
Sheet Number	Sheet Name
0	Cover Sheet
A0.1.1	Slab Plan
A1.1	Floor Plans - Elev 1
A1.2	Floor Plans - Elev 2
A1.3	Floor Plans - Elev 3
A1.4	Floor Plans - Elev 4
A1.5	Floor Plans - Options
A4.1	Sections
A5.1	Elevations - Elev 1
A5.1.1	Roof Plan - Elev 1
A5.2	Elevations - Elev 2
A5.2.1	Roof Plan - Elev 2
A5.3	Elevations - Elev 3
A5.3.1	Roof Plan - Elev 3
A5.4	Elevations - Elev 4
A5.4.1	Roof Plan - Elev 4
A5.6	Elevations - Options
A5.7	Roof Plan - Options
E1.0	1st Floor Utility Std. Pkg.
E1.0a	1st Floor Utility Opt. Pkg.
E1.1	Utility Plan - Options

PINECREST

PLAN 1166



1 Elev 1



2 Elev 2



3 Elev 3



4 Elev 4



PINECREST - Master Plan Set

Cover Sheet

Community:

Lot #:

Address:

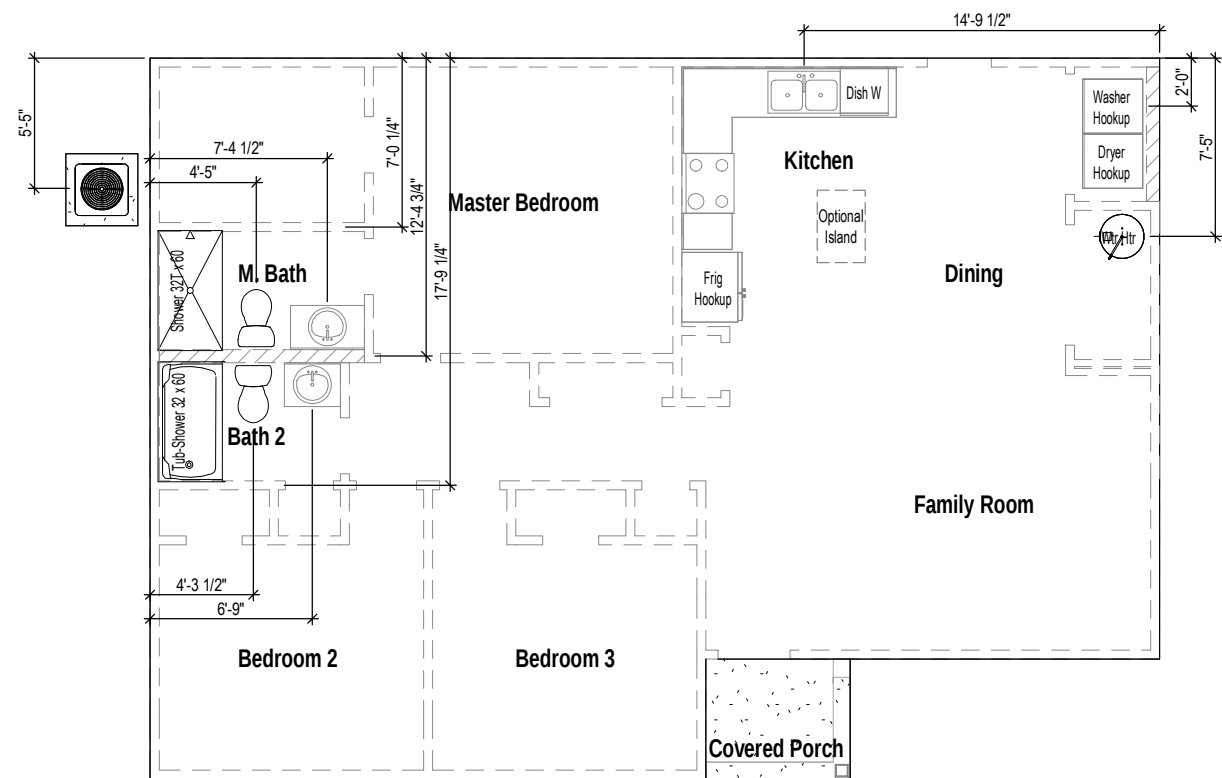
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Plan Version Date:
1-18-23

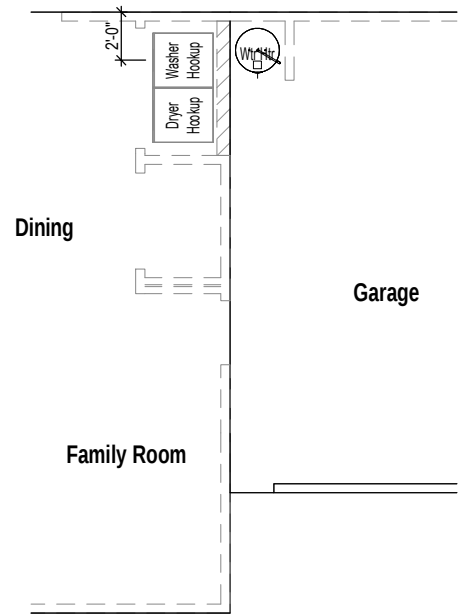
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Sheet #:
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REFER TO STRUCTURAL
DRAWINGS FOR ALL
FOUNDATION DIMENSIONS



1 Slab Plan
1/8" = 1'-0"



2 Slab Plan w/Opt Garage
1/8" = 1'-0"



PINECREST - Master Plan Set

Slab Plan

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A0.1.1



PINECREST - Master Plan Set

Floor Plans - Elev 1

Community:

Lot #:

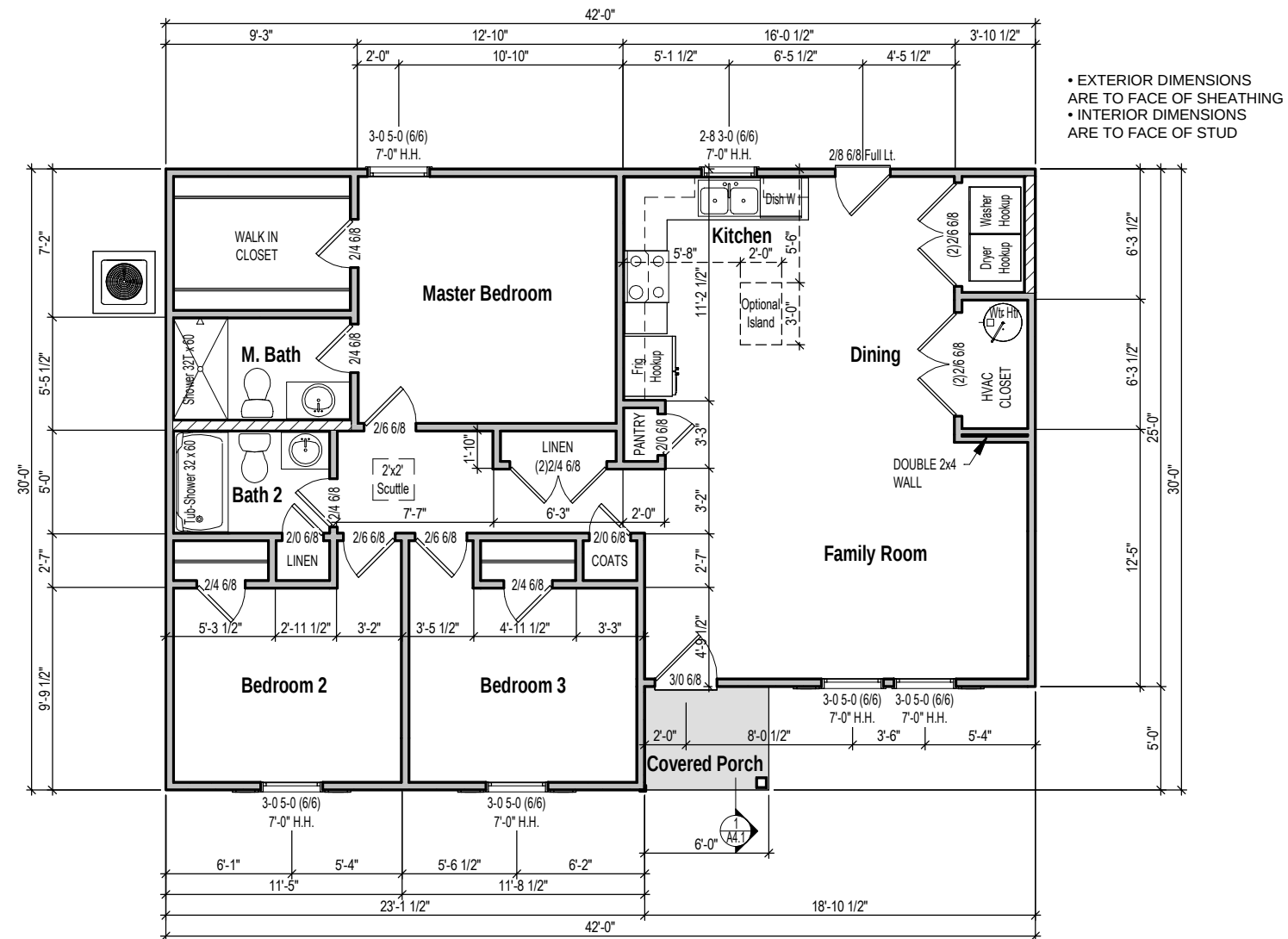
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Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A1.1



- EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING
- INTERIOR DIMENSIONS ARE TO FACE OF STUD



PINECREST - Master Plan Set

Floor Plans - Elev 2

Community:

Lot #:

Address:

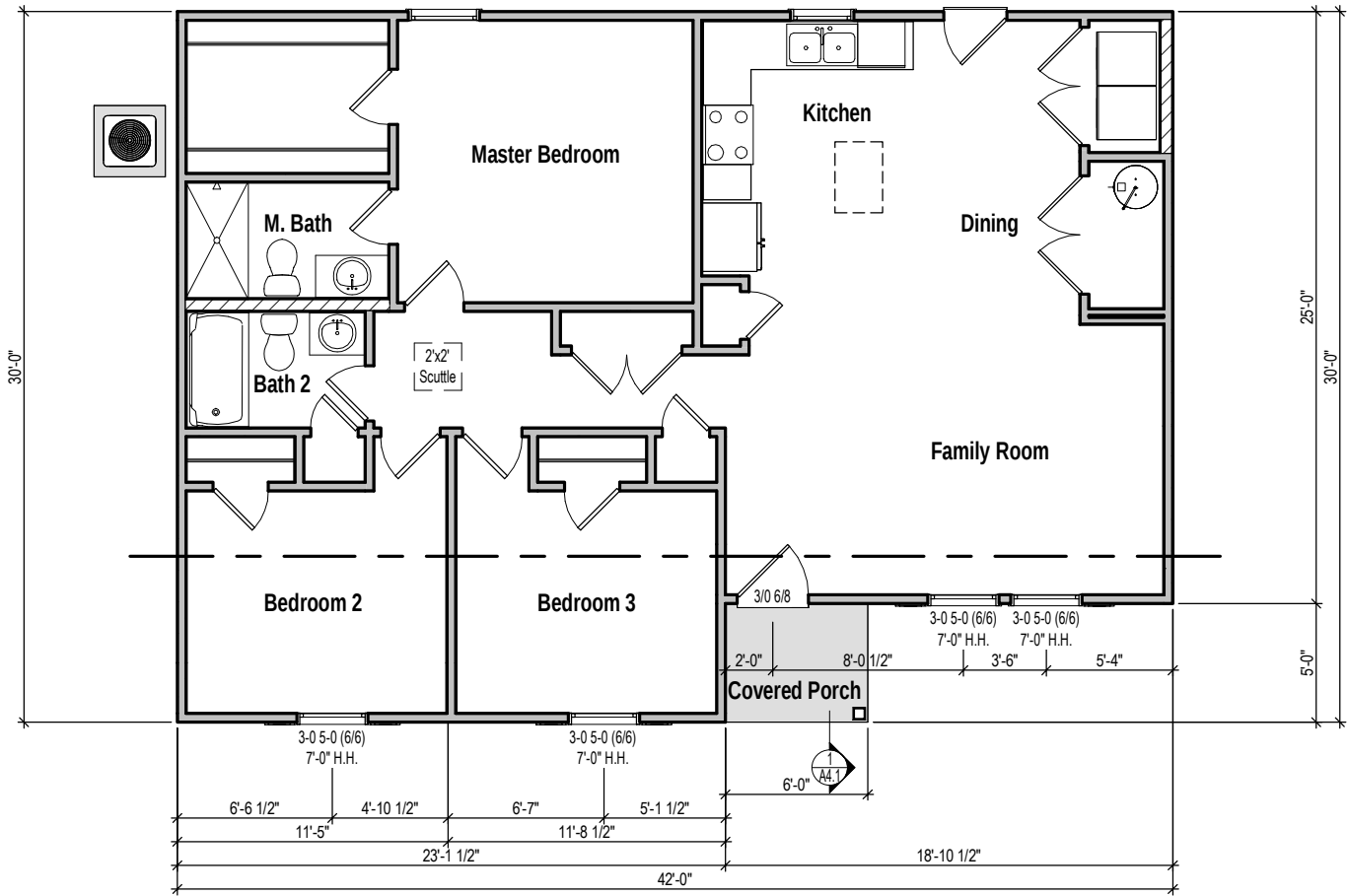
Orientation:
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Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A1.2

- EXTERIOR DIMENSIONS
ARE TO FACE OF SHEATHING
- INTERIOR DIMENSIONS
ARE TO FACE OF STUD



1 1st Floor Plan - Elev 2
1/8" = 1'-0"

Community:

Lot #:

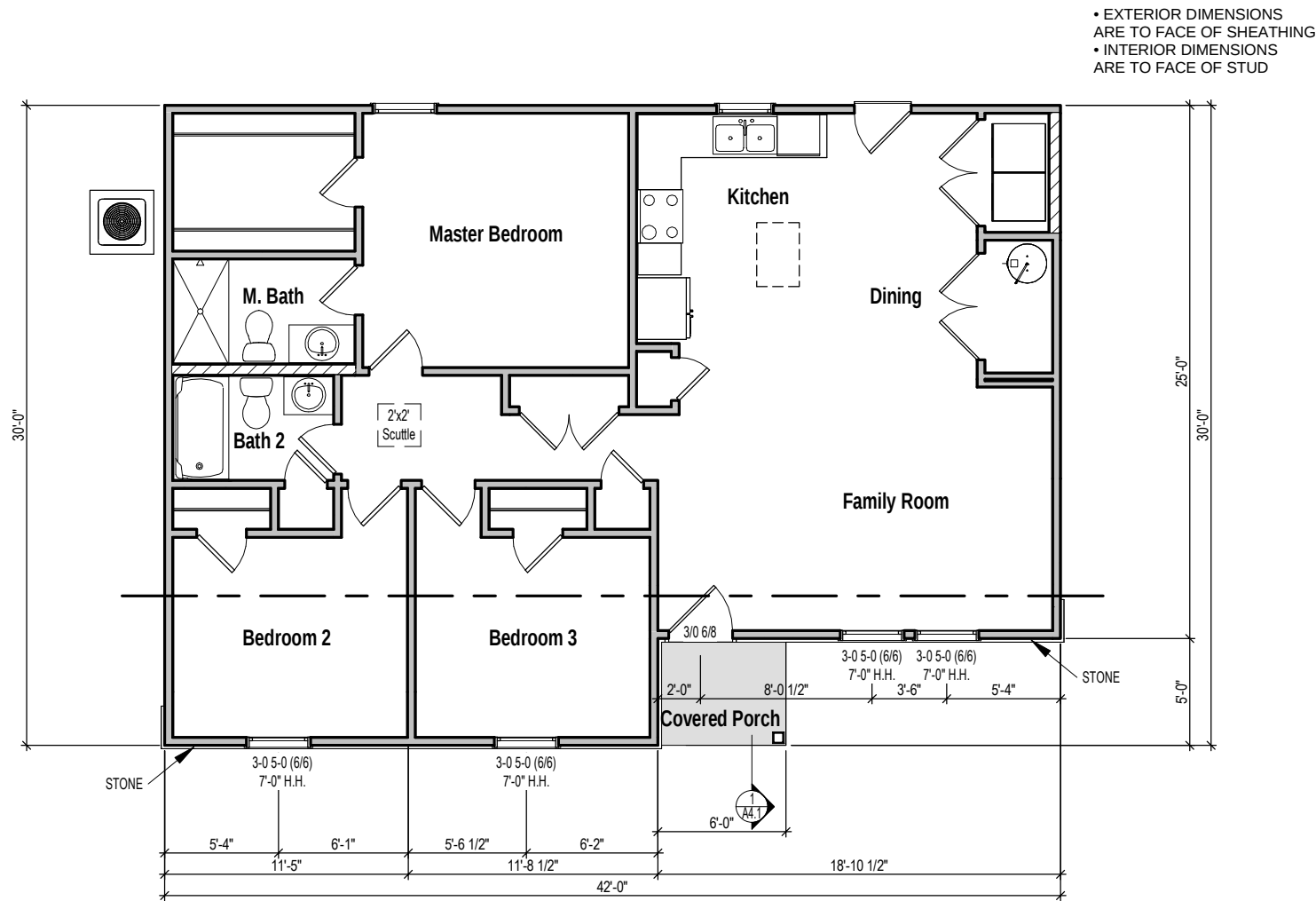
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Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A1.3



1 1st Floor Plan - Elev 3
1/8" = 1'-0"



PINECREST - Master Plan Set

Floor Plans - Elev 4

Community:

Lot #:

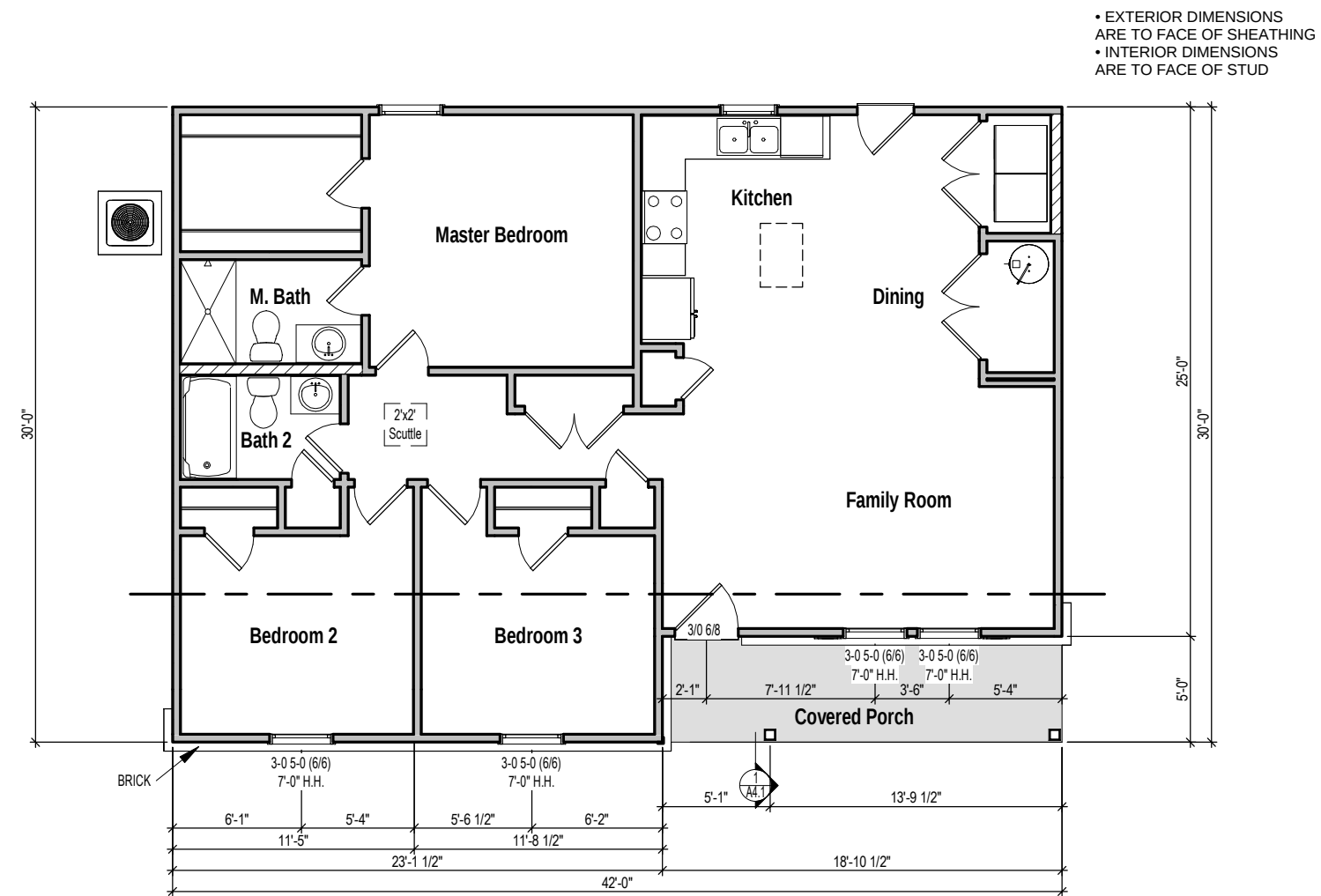
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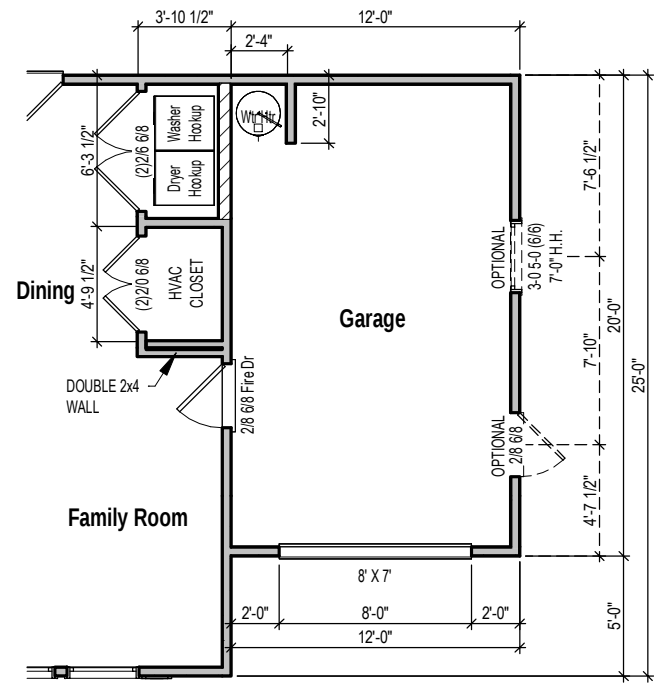
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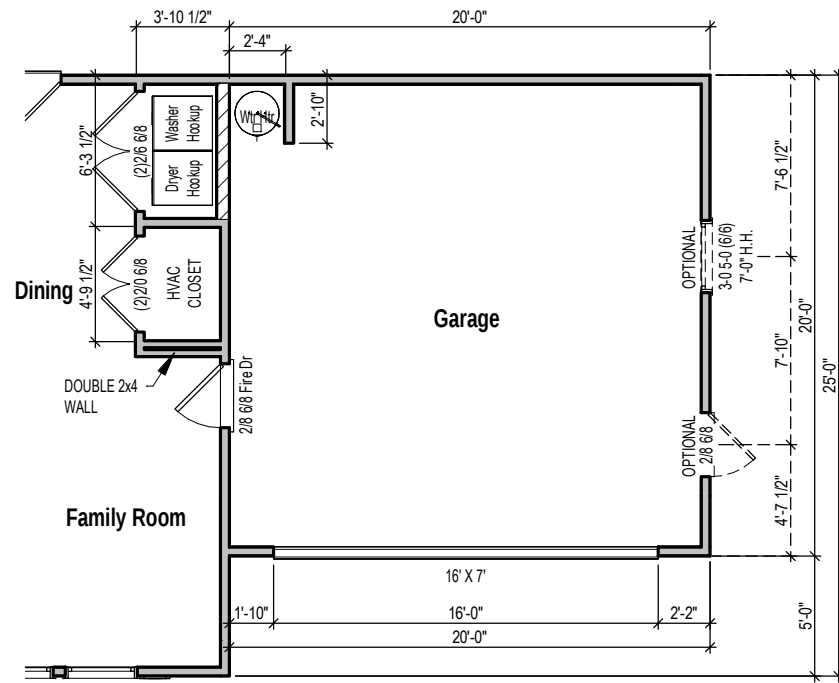
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A1.4



1 1st Floor Plan - Elev 4
1/8" = 1'-0"



1 Opt 1 Car Garage
1/8" = 1'-0"



2 Opt 2 Car Garage
1/8" = 1'-0"



PINECREST - Master Plan Set

Floor Plans - Options

Community:

Lot #:

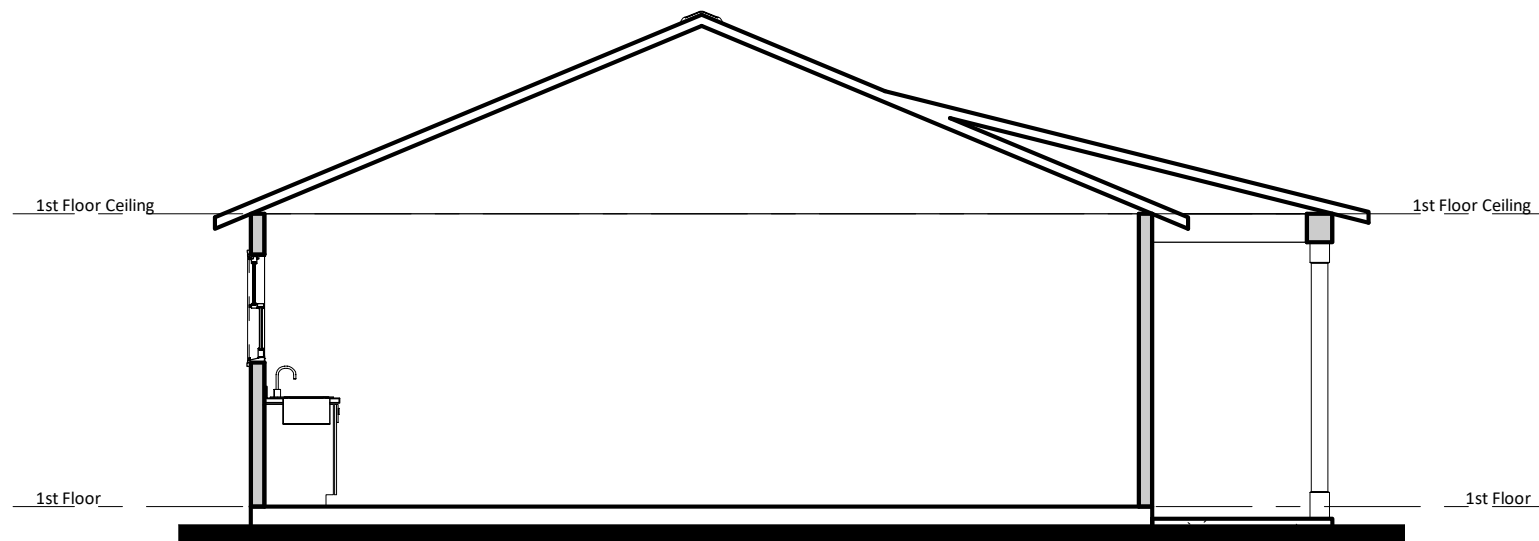
Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A1.5



① Building Section
3/16" = 1'-0"



PINECREST - Master Plan Set

Sections

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A4.1

Community:

Lot #:

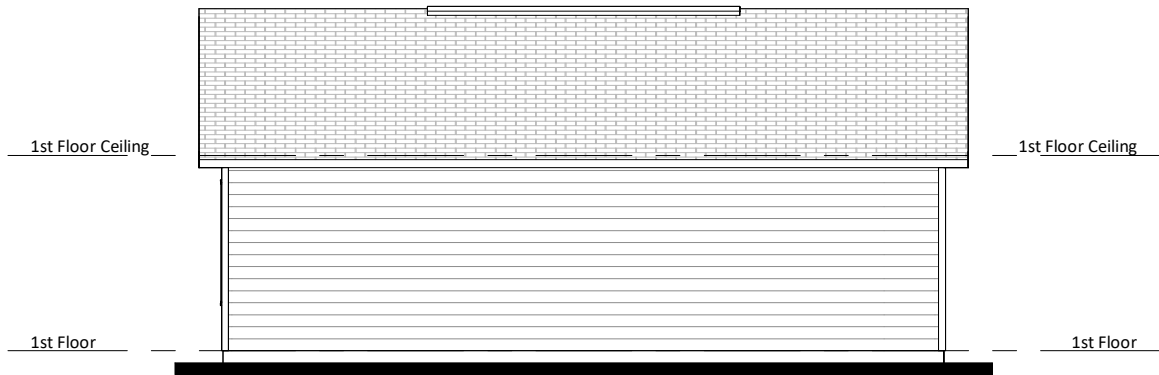
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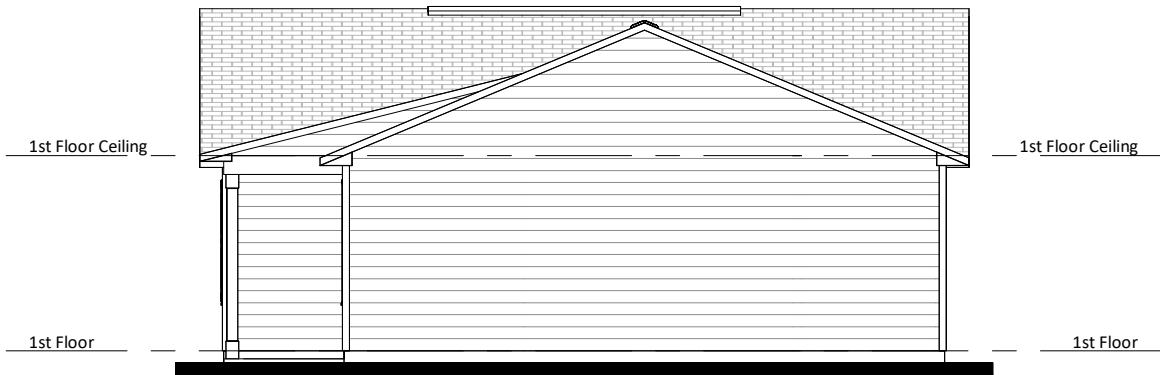
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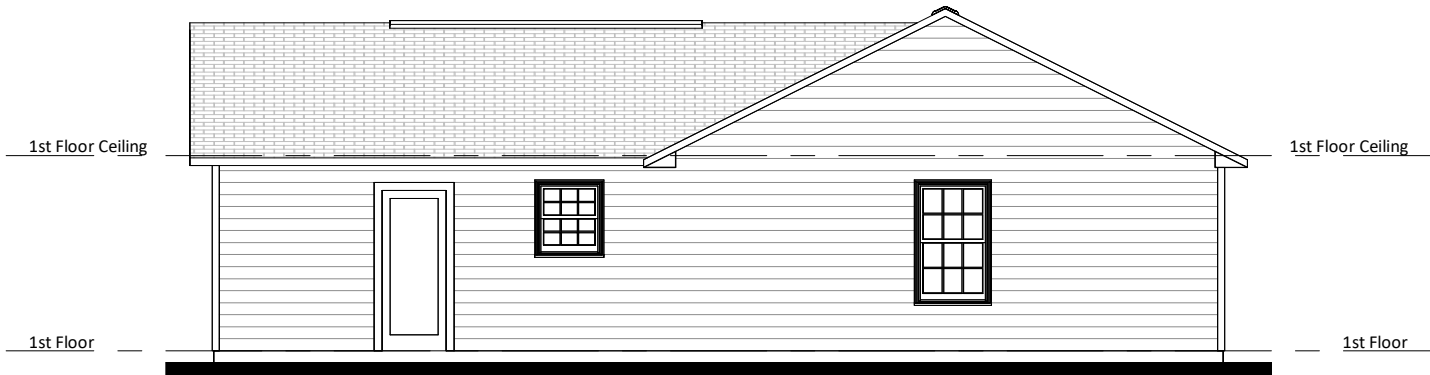
3 Left Elevation - Elev 1
1/8" = 1'-0"



1 Front Elevation - Elev 1
1/8" = 1'-0"



4 Right Elevation - Elev 1
1/8" = 1'-0"

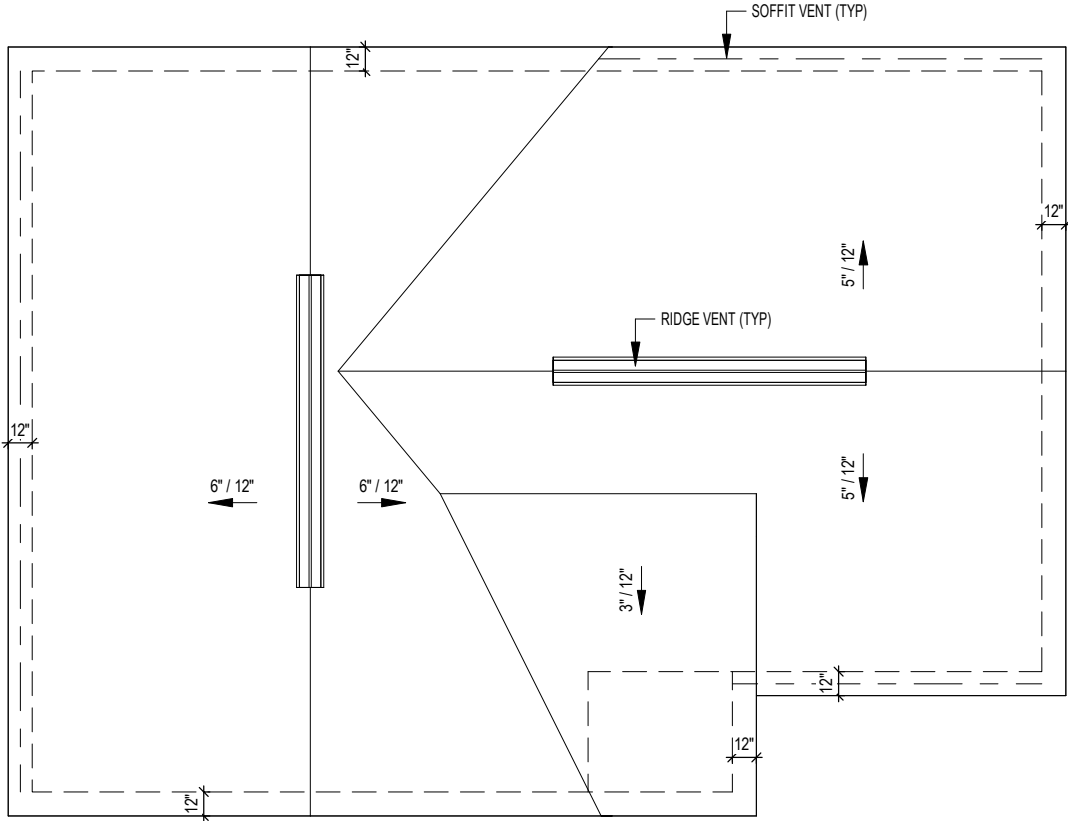


2 Rear Elevation - Elev 1
1/8" = 1'-0"

Attic Ventilation Calcs 1/300 (sq.in.) Elev 1

Name	Area	Ventilation Required (sq.in.)	Max Upper (sq.in.)	Min Upper (sq.in.)	Upper Ventilation (sq.in.)	Lower Ventilation (sq.in.)	Total Ventilation (sq.in.)	Ridge Vent (ln.ft.)	Roof Vents (ea)	Soffit Vents (sq.ft.)
Main Roof	1196 SF	574	459	287	390	366	756	26	0	61

- CALCS BASED ON THE FOLLOWING VALUES
- Ridge Vents = 15 in² of net free area per linear foot
 - Roof Vents = 50 in² of net free area per unit
 - Soffit Vents = 6 in² of net free area per square foot



1 Roof Plan - Elev 1
1/8" = 1'-0"



PINECREST - Master Plan Set

Roof Plan - Elev 1

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A5.1.1

Community:

Lot #:

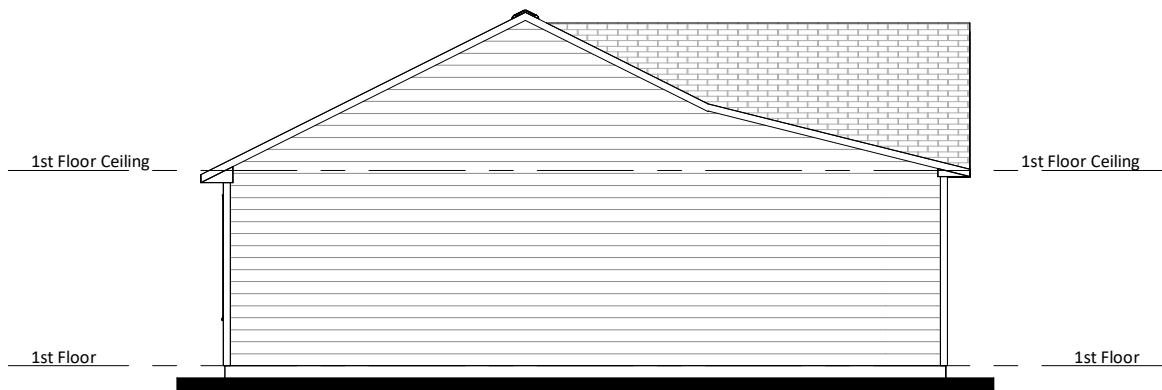
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Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A5.2



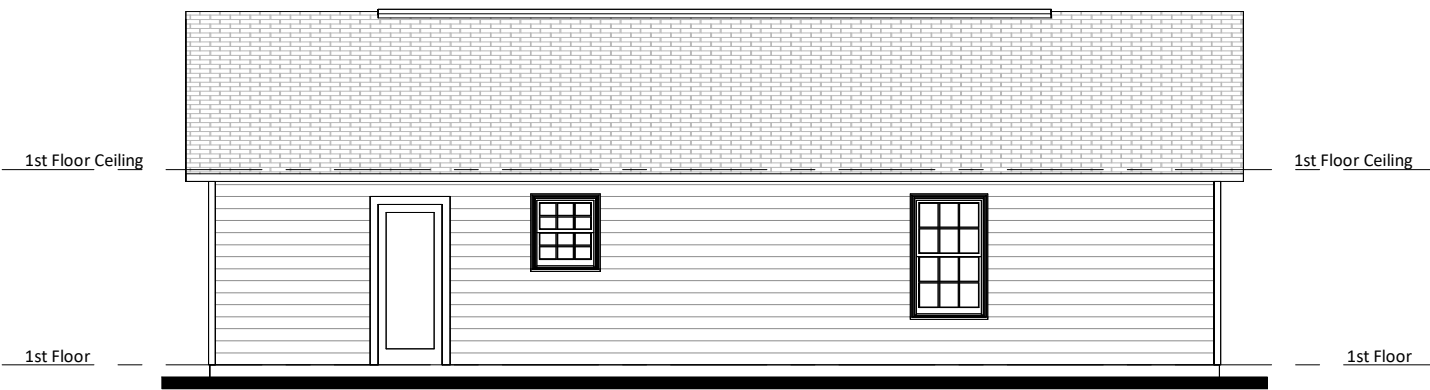
③ Left Elevation - Elev 2
1/8" = 1'-0"



① Front Elevation - Elev 2
1/8" = 1'-0"



④ Right Elevation - Elev 2
1/8" = 1'-0"



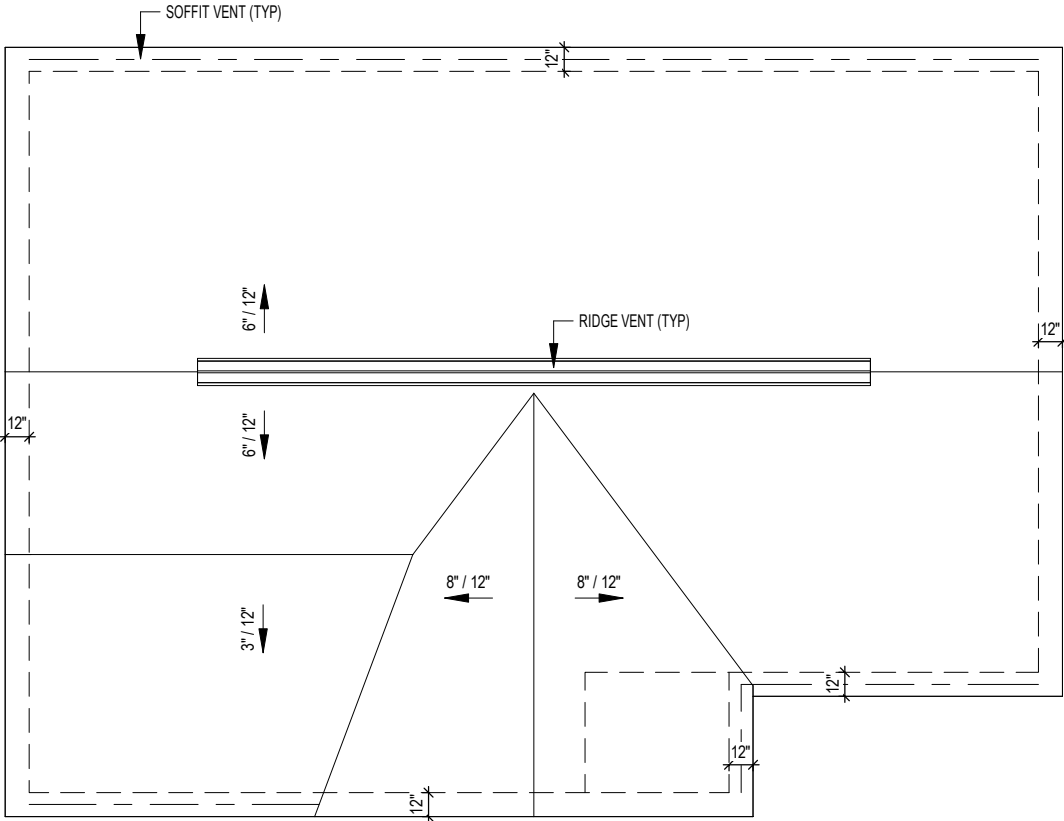
② Rear Elevation - Elev 2
1/8" = 1'-0"

Attic Ventilation Calcs 1/300 (sq.in.) Elev 2

Name	Area	Ventilation Required (sq.in.)	Max Upper (sq.in.)	Min Upper (sq.in.)	Upper Ventilation (sq.in.)	Lower Ventilation (sq.in.)	Total Ventilation (sq.in.)	Ridge Vent (ln.ft.)	Roof Vents (ea)	Soffit Vents (sq.ft.)
Main Roof	1196 SF	574	459	287	420	426	846	28	0	71

CALCS BASED ON THE FOLLOWING VALUES

- Ridge Vents = 15 in² of net free area per linear foot
- Roof Vents = 50 in² of net free area per unit
- Soffit Vents = 6 in² of net free area per square foot



1 Roof Plan - Elev 2
1/8" = 1'-0"



PINECREST - Master Plan Set

Roof Plan - Elev 2

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A5.2.1

Community:

Lot #:

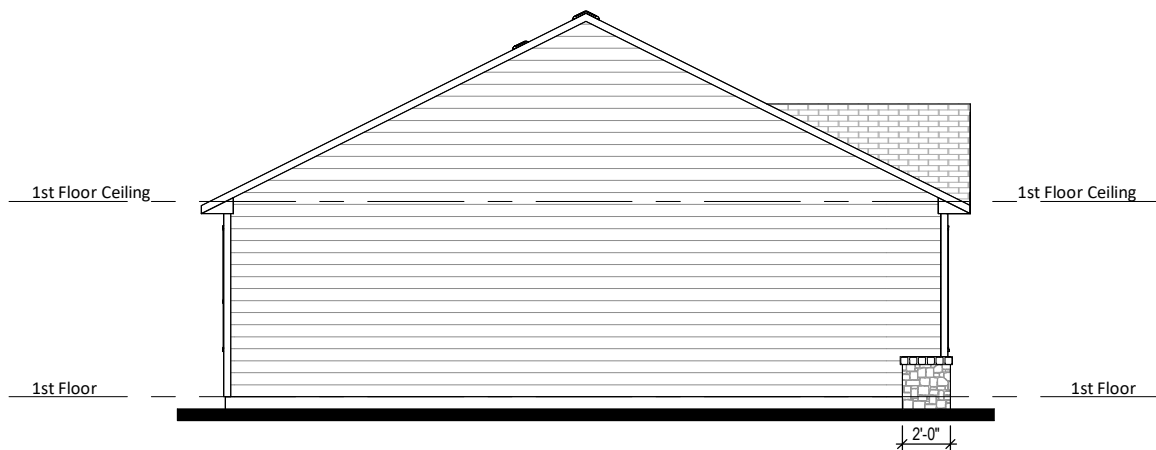
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Orientation:
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Plan Version Date:
1-18-23

Job Version Date:

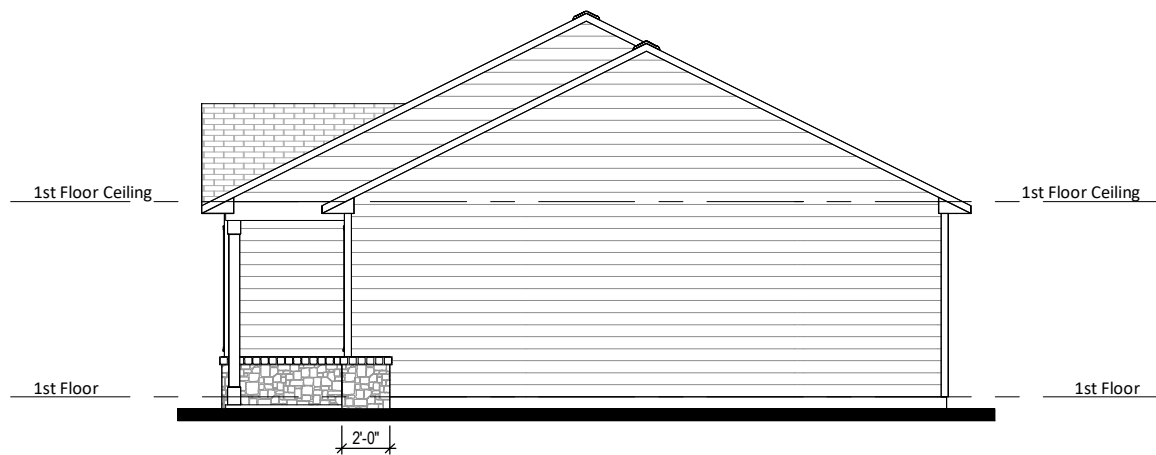
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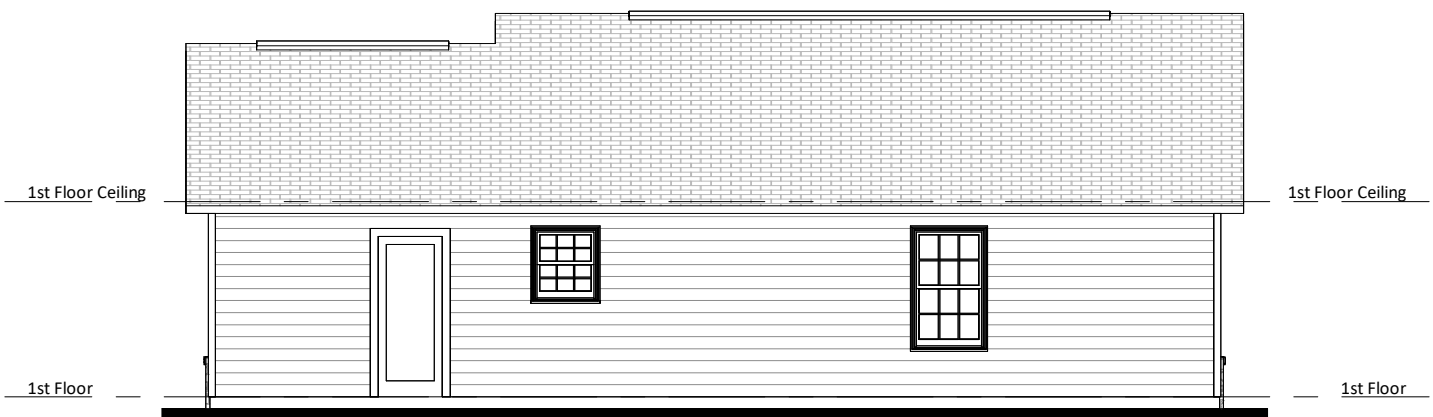
③ Left Elevation - Elev 3
1/8" = 1'-0"



① Front Elevation - Elev 3
1/8" = 1'-0"



④ Right Elevation - Elev 3
1/8" = 1'-0"



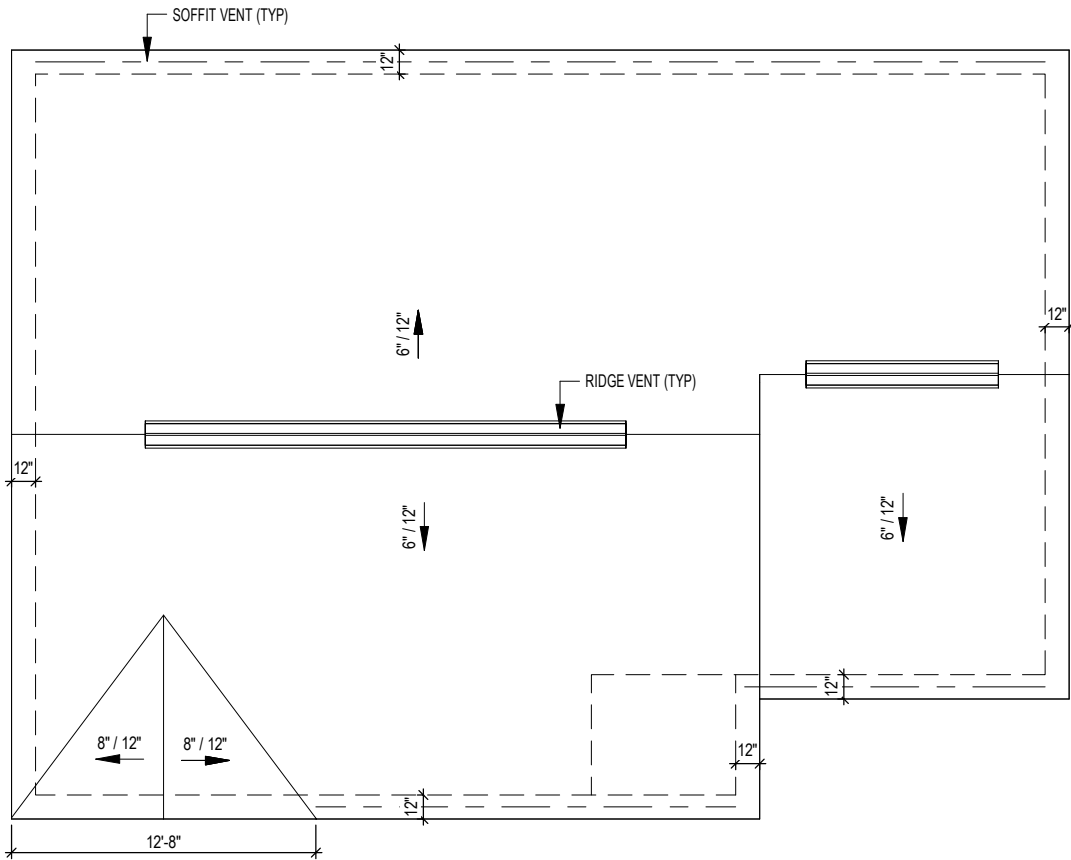
② Rear Elevation - Elev 3
1/8" = 1'-0"

Attic Ventilation Calcs 1/300 (sq.in.) Elev 3

Name	Area	Ventilation Required (sq.in.)	Max Upper (sq.in.)	Min Upper (sq.in.)	Upper Ventilation (sq.in.)	Lower Ventilation (sq.in.)	Total Ventilation (sq.in.)	Ridge Vent (ln.ft.)	Roof Vents (ea)	Soffit Vents (sq.ft.)
Main Roof	1196 SF	574	459	287	420	426	846	28	0	71

CALCS BASED ON THE FOLLOWING VALUES

- Ridge Vents = 15 in² of net free area per linear foot
- Roof Vents = 50 in² of net free area per unit
- Soffit Vents = 6 in² of net free area per square foot



1 Roof Plan - Elev 3
1/8" = 1'-0"



PINECREST - Master Plan Set

Roof Plan - Elev 3

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A5.3.1

Community:

Lot #:

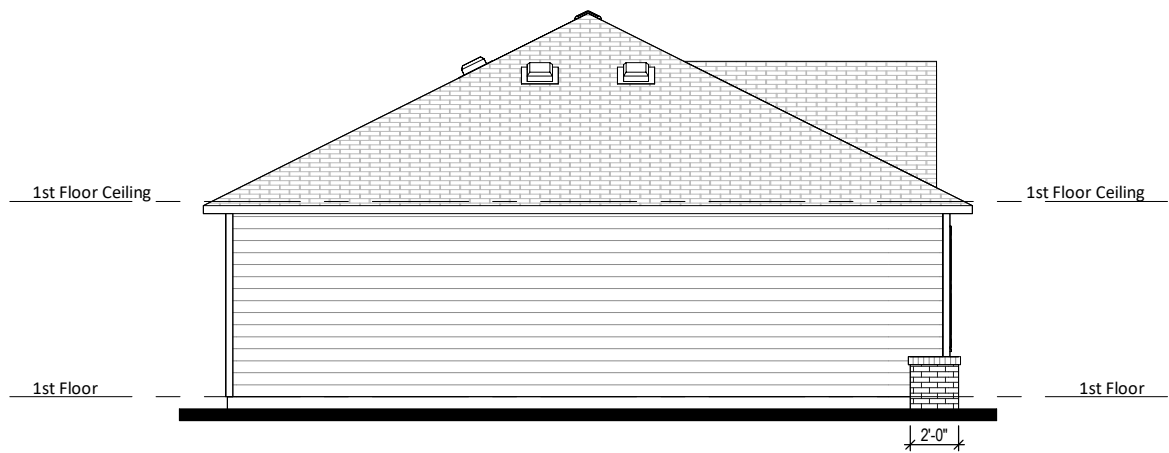
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Orientation:
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Plan Version Date:
1-18-23

Job Version Date:

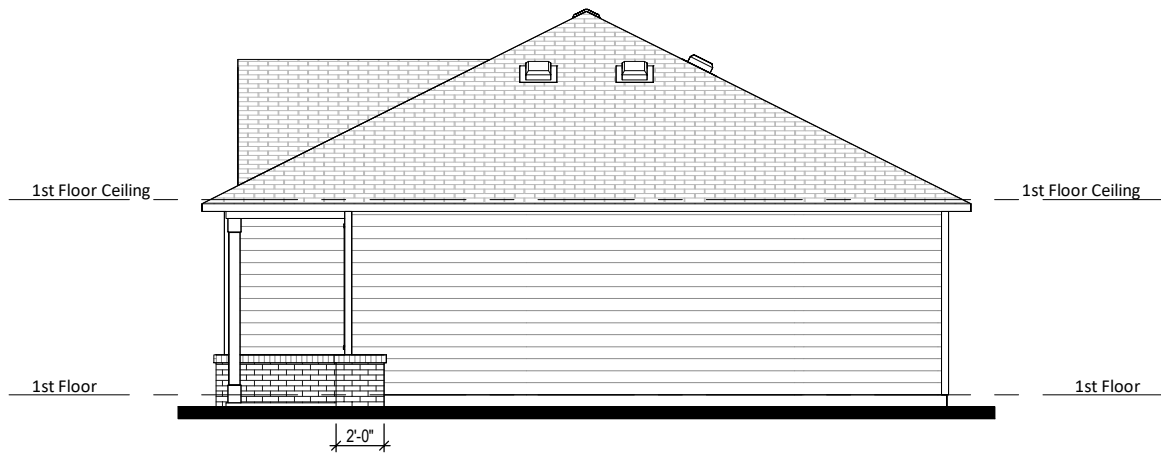
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A5.4



② Left Elevation - Elev 4
1/8" = 1'-0"



① Front Elevation - Elev 4
1/8" = 1'-0"



④ Right Elevation - Elev 4
1/8" = 1'-0"



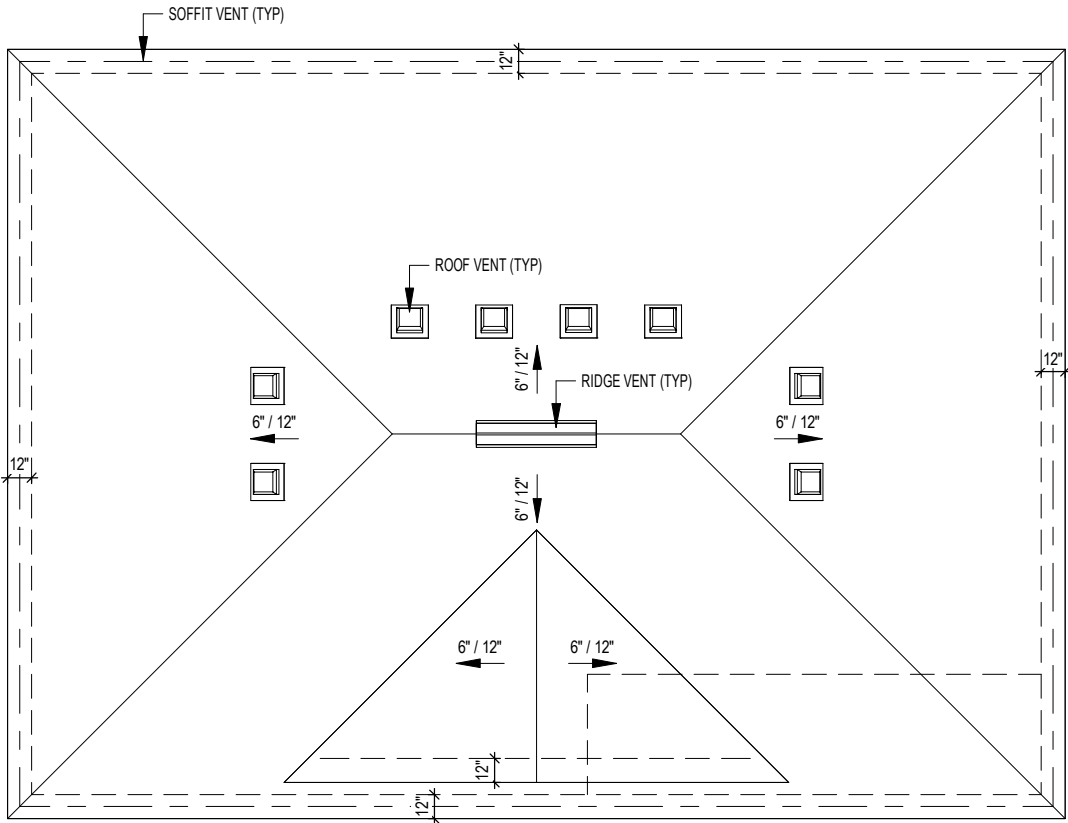
③ Rear Elevation - Elev 4
1/8" = 1'-0"

Attic Ventilation Calcs 1/300 (sq.in.) Elev 4

Name	Area	Ventilation Required (sq.in.)	Max Upper (sq.in.)	Min Upper (sq.in.)	Upper Ventilation (sq.in.)	Lower Ventilation (sq.in.)	Total Ventilation (sq.in.)	Ridge Vent (ln.ft.)	Roof Vents (ea)	Soffit Vents (sq.ft.)
Main Roof	1260 SF	605	484	302	475	888	1363	5	8	148

CALCS BASED ON THE FOLLOWING VALUES

- Ridge Vents = 15 in² of net free area per linear foot
- Roof Vents = 50 in² of net free area per unit
- Soffit Vents = 6 in² of net free area per square foot



1 Roof Plan - Elev 4
1/8" = 1'-0"



PINECREST - Master Plan Set

Roof Plan - Elev 4

Community:

Lot #:

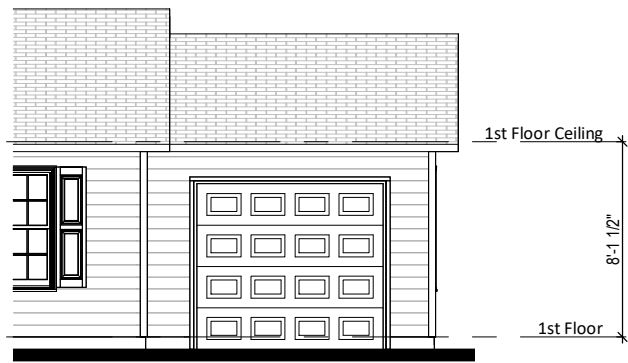
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Orientation:
kitchen right

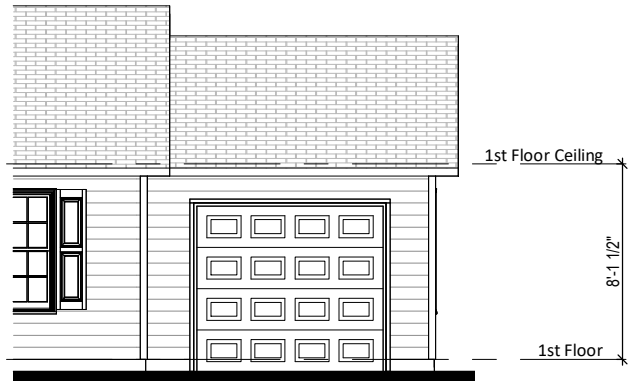
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Job Version Date:

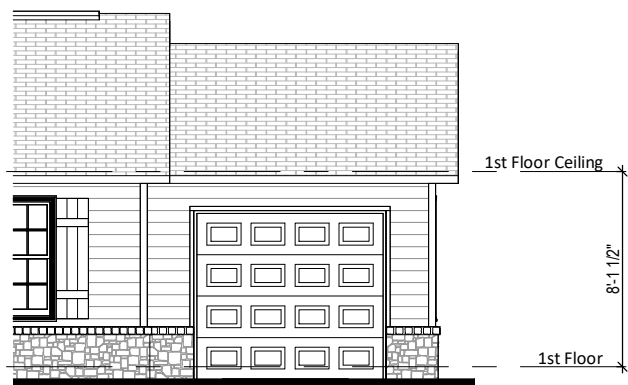
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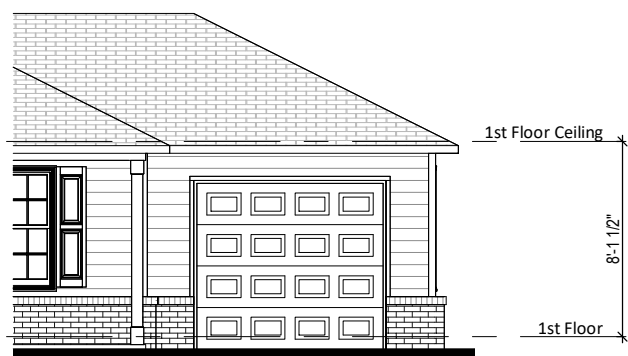
① Front Elevation - Elev 1 Opt 1Car Garage
1/8" = 1'-0"



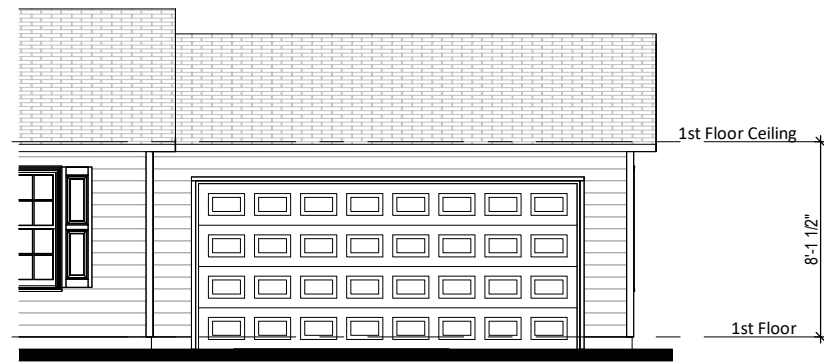
④ Front Elevation - Elev 2 Opt 1Car Garage
1/8" = 1'-0"



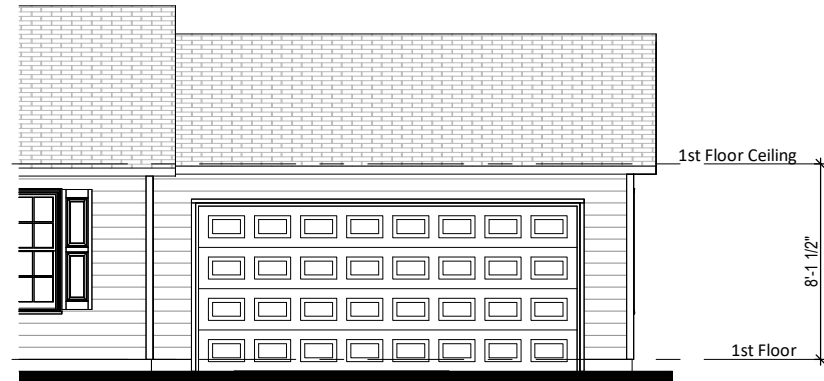
⑦ Front Elevation - Elev 3 Opt 1Car Garage
1/8" = 1'-0"



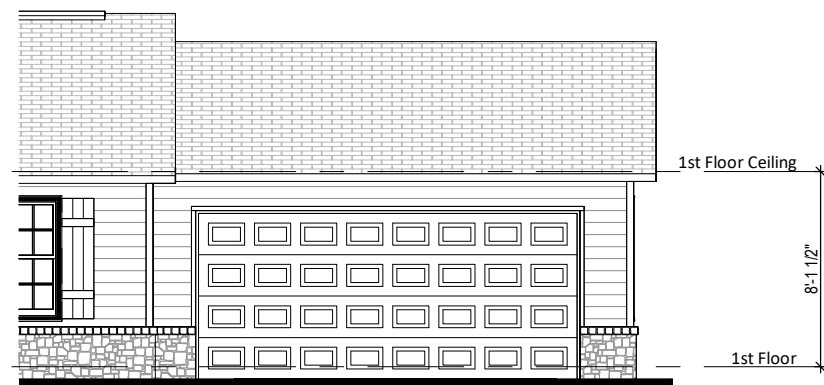
⑩ Front Elevation - Elev 4 Opt 1Car Garage
1/8" = 1'-0"



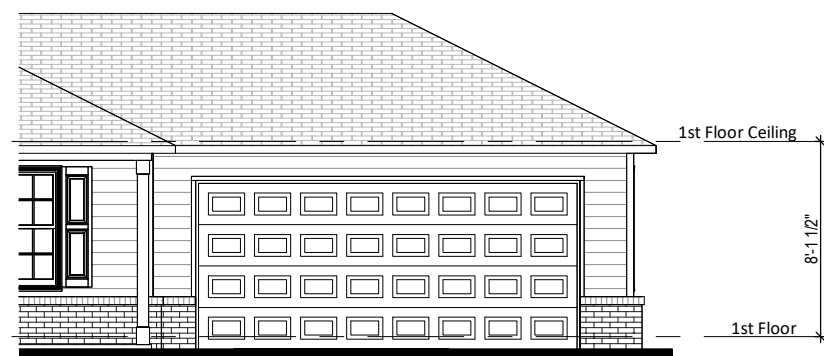
② Front Elevation - Elev 1 Opt 2Car Garage
1/8" = 1'-0"



⑤ Front Elevation - Elev 2 Opt 2Car Garage
1/8" = 1'-0"



⑧ Front Elevation - Elev 3 Opt 2Car Garage
1/8" = 1'-0"



⑪ Front Elevation - Elev 4 Opt 2Car Garage
1/8" = 1'-0"



③ Right Elevation - Elev 1 Opt Garage
1/8" = 1'-0"



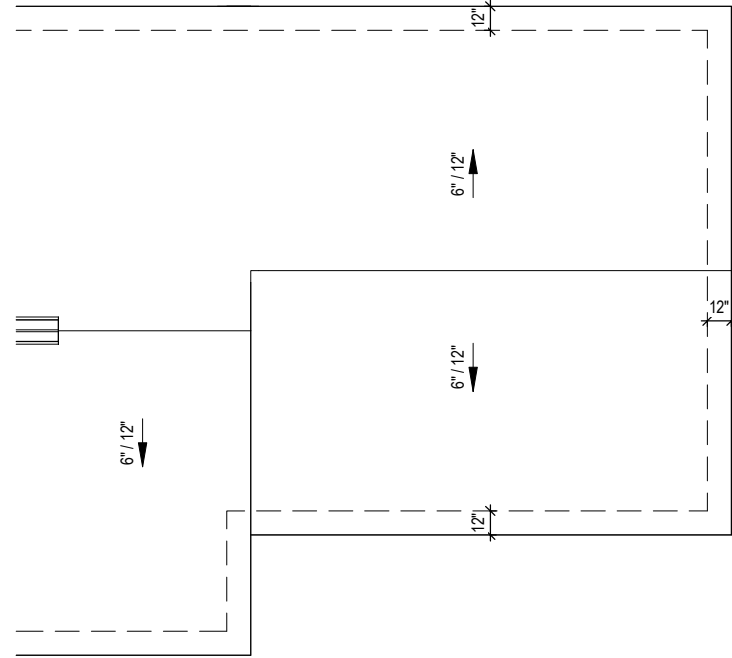
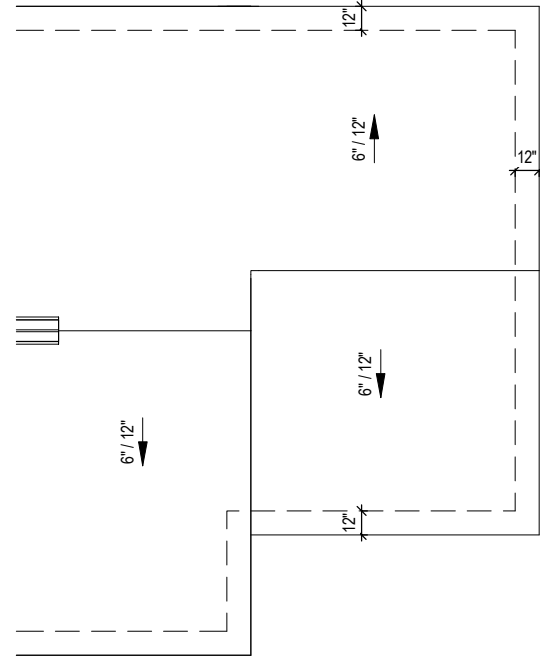
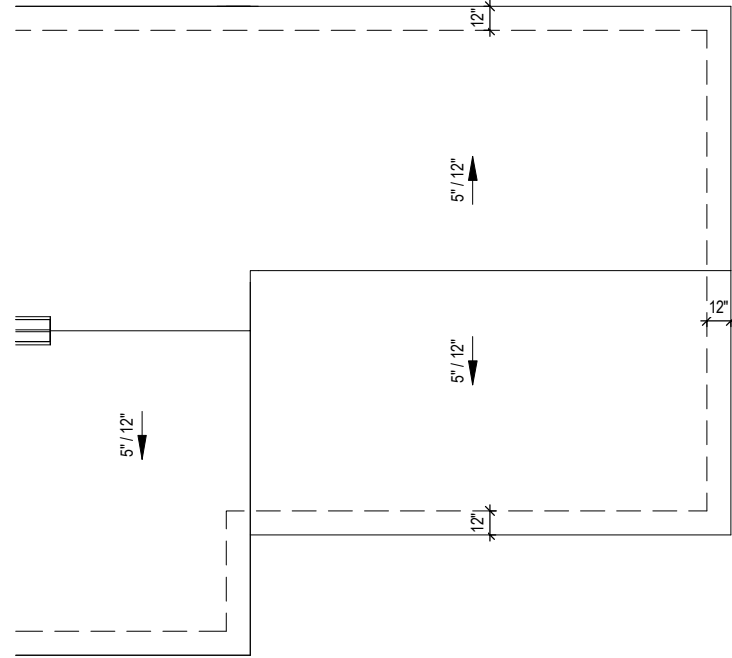
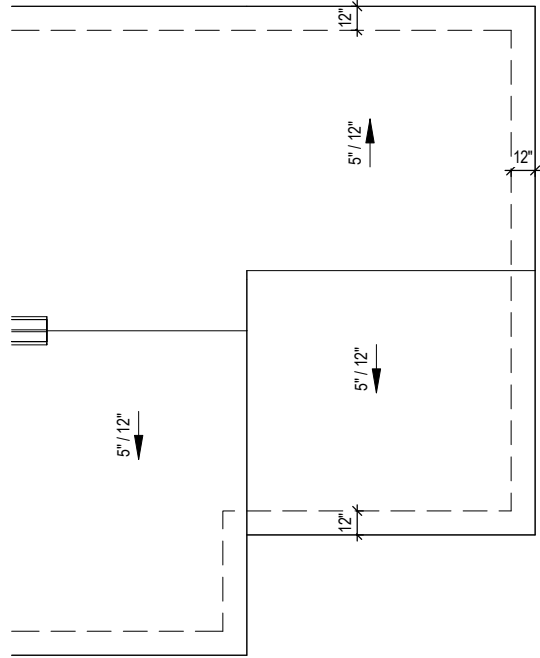
⑥ Right Elevation - Elev 2 Opt Garage
1/8" = 1'-0"



⑨ Right Elevation - Elev 3 Opt Garage
1/8" = 1'-0"



⑫ Right Elevation - Elev 4 Opt Garage
1/8" = 1'-0"

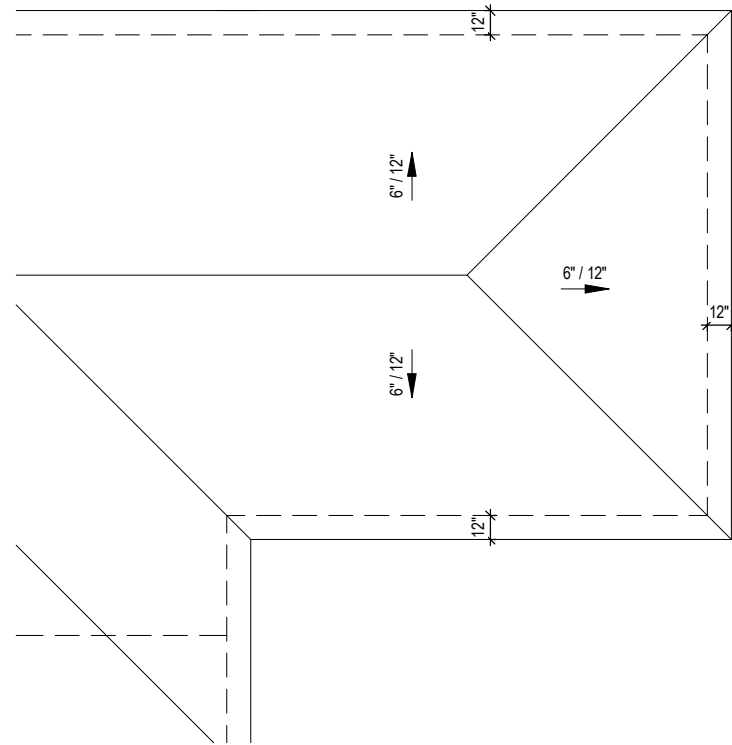
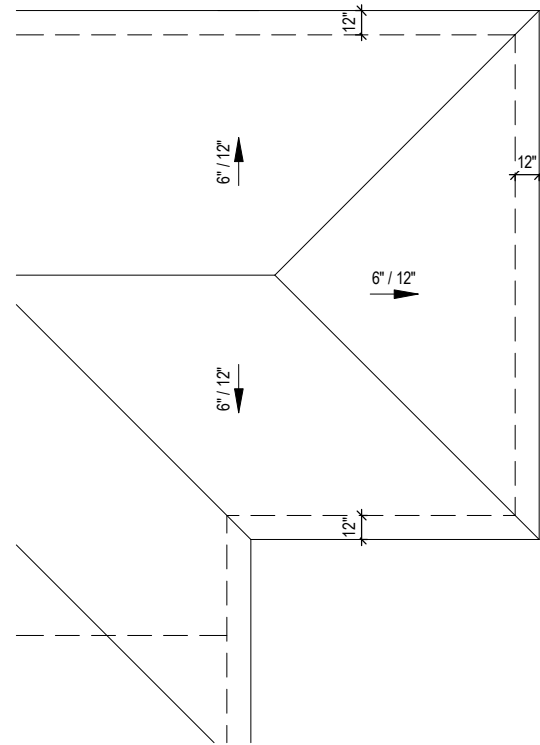
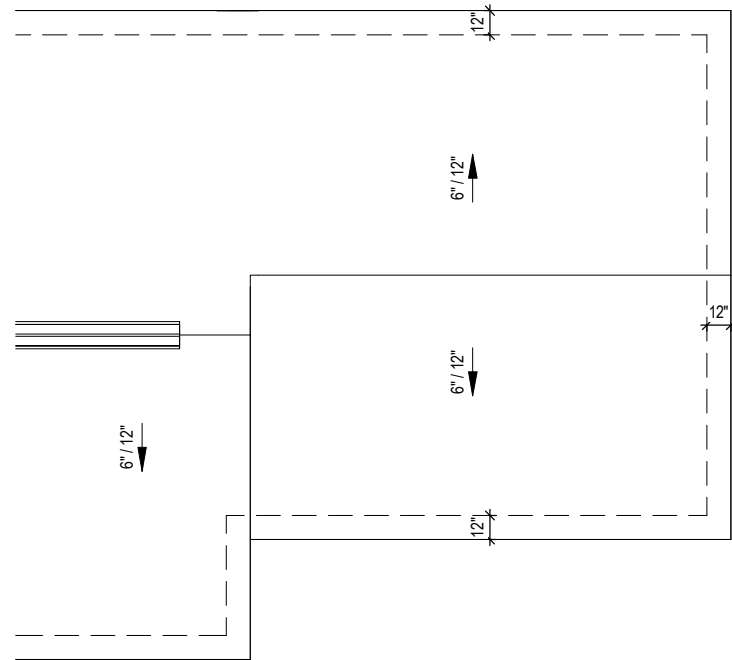
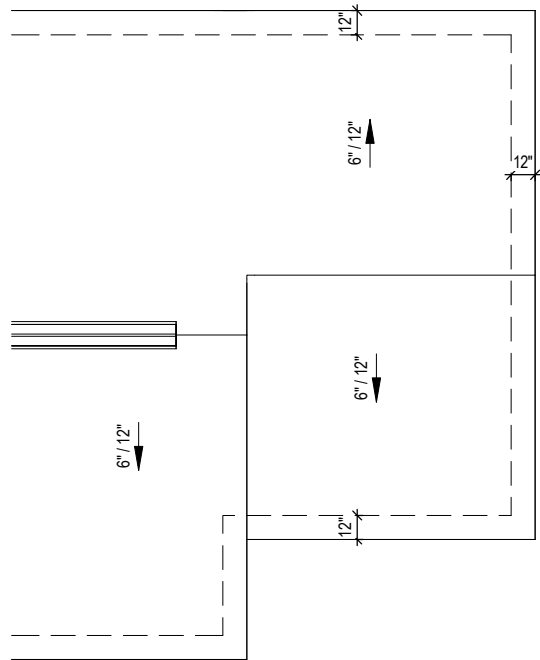


① Roof Plan - Elev 1 Opt 1Car Garage
1/8" = 1'-0"

② Roof Plan - Elev 1 Opt 2Car Garage
1/8" = 1'-0"

③ Roof Plan - Elev 2 Opt 1Car Garage
1/8" = 1'-0"

④ Roof Plan - Elev 2 Opt 2Car Garage
1/8" = 1'-0"



⑤ Roof Plan - Elev 3 Opt 1Car Garage
1/8" = 1'-0"

⑥ Roof Plan - Elev 3 Opt 2Car Garage
1/8" = 1'-0"

⑦ Roof Plan - Elev 4 Opt 1Car Garage
1/8" = 1'-0"

⑧ Roof Plan - Elev 4 Opt 2Car Garage
1/8" = 1'-0"



PINECREST - Master Plan Set

Roof Plan - Options

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

Sheet #:
A5.7

Community:

Lot #:

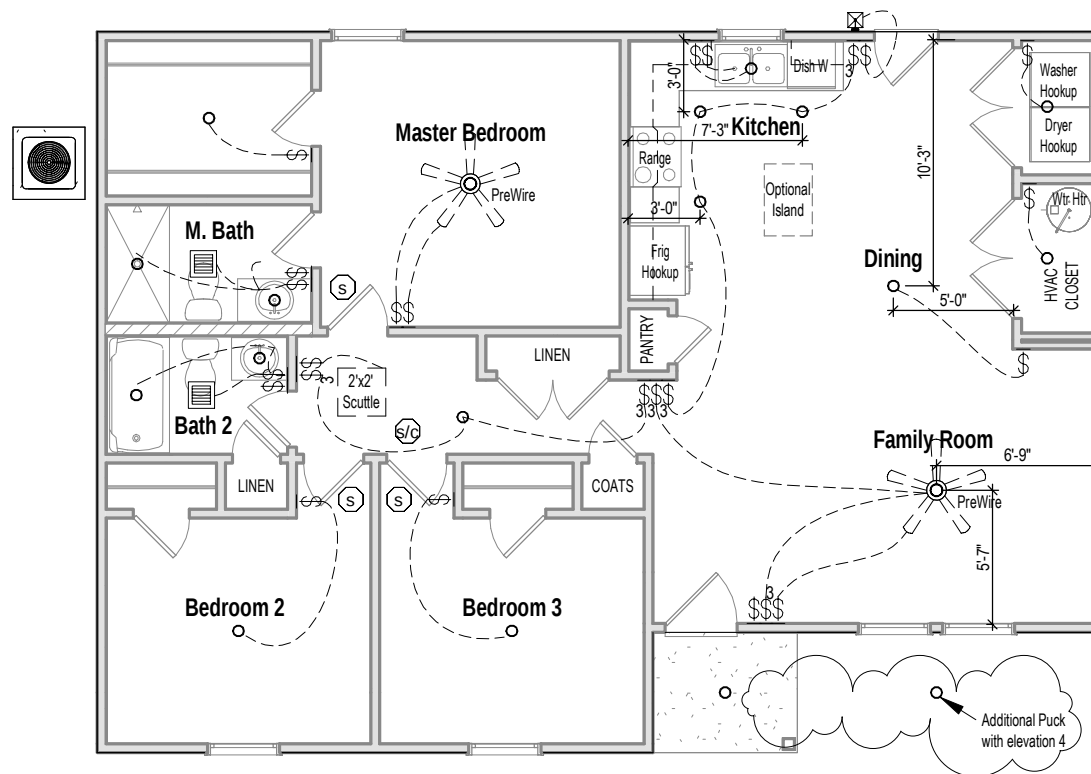
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Orientation:
kitchen right

Plan Version Date:
1-18-23

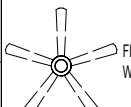
Job Version Date:

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E1.0



1 Electrical Std. Pkg. - 1st Floor (surface lights are puck lights)
1/8" = 1'-0"

ELECTRICAL LEGEND

WALL MOUNTED FIXTURES			CEILING MOUNTED FIXTURES		
	OUTLET - 110V		OUTLET - TV		WALL LIGHT
	OUTLET - 110V GROUND FAULT INTERRUPTER		OUTLET - PHONE		18" LIGHT BAR
	OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF		SWITCH - SINGLE POLE		COACH LIGHT - FRONT DOOR
	OUTLET - 220V		SWITCH - 3 WAY		COACH LIGHT - REAR DOOR
			SWITCH - 4 WAY		FLUSH MOUNT W-FAN PREWIRE
					FLUORESCENT 1'X4' 2 LAMPS

Community:

Lot #:

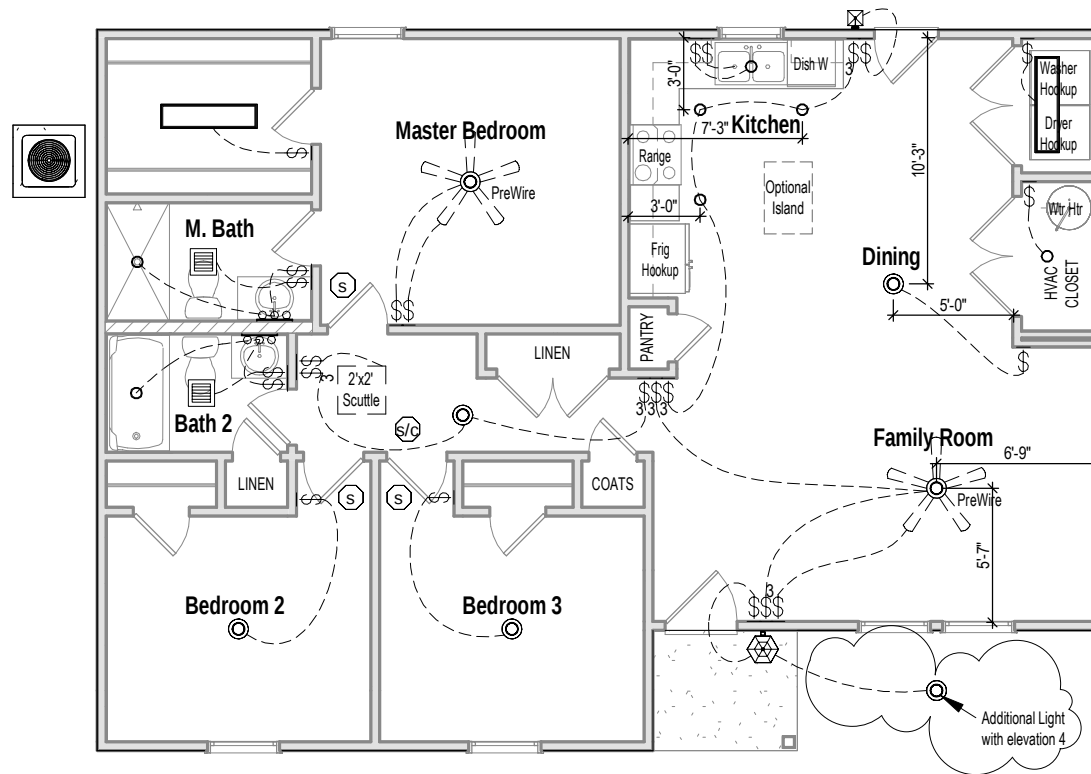
Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

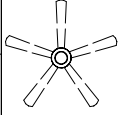
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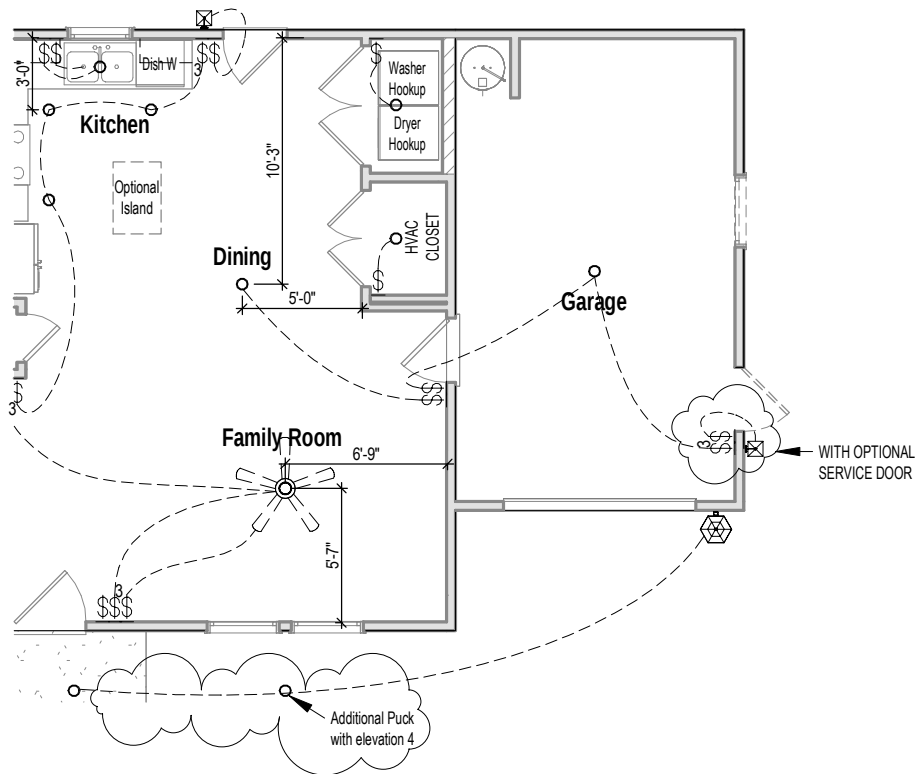
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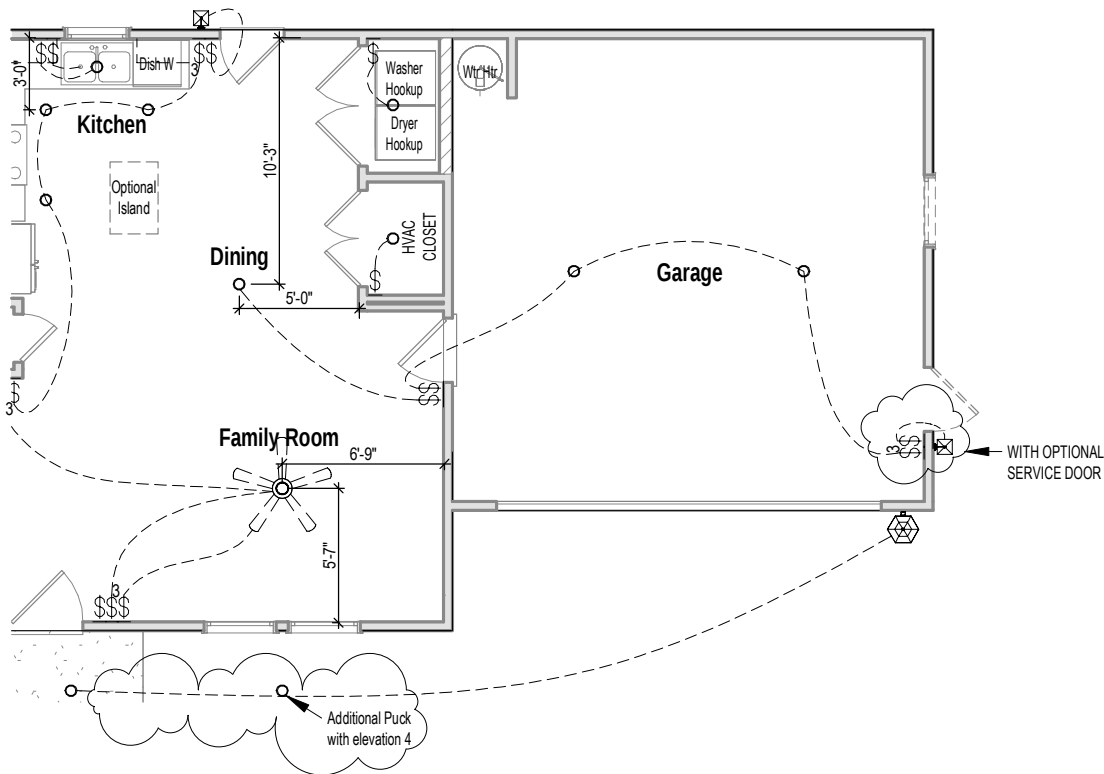
1 Electrical Opt. Pkg. - 1st Floor (surface lights are can lights)
1/8" = 1'-0"

ELECTRICAL LEGEND

WALL MOUNTED FIXTURES			CEILING MOUNTED FIXTURES		
	OUTLET - 110V		OUTLET - TV		WALL LIGHT
	OUTLET - 110V GROUND FAULT INTERRUPTER		OUTLET - PHONE		18" LIGHT BAR
	OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF		SWITCH - SINGLE POLE		COACH LIGHT - FRONT DOOR
	OUTLET - 220V		SWITCH - 3 WAY		COACH LIGHT - REAR DOOR
			SWITCH - 4 WAY		FLUSH MOUNT W-FAN PREWIRE
					FLUORESCENT 1'X4' 2 LAMPS



1 Electrical Opt 1Car Garage - Std. Pkg
1/8" = 1'-0"



2 Electrical Opt 2Car Garage - Std. Pkg
1/8" = 1'-0"

ELECTRICAL LEGEND					
WALL MOUNTED FIXTURES			CEILING MOUNTED FIXTURES		
OUTLET - 110V	OUTLET - TV	WALL LIGHT	GARAGE DOOR OPENER PREWIRE	SMOKE DETECTOR	
OUTLET - 110V GROUND FAULT INTERRUPTER	OUTLET - PHONE	18" LIGHT BAR	FLUSH MOUNT	SMOKE DETECTOR/CO2	
OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF	SWITCH - SINGLE POLE	COACH LIGHT - FRONT DOOR	SURFACE LIGHT	BATHROOM EXHAUST FAN	
OUTLET - 220V	SWITCH - 3 WAY	COACH LIGHT - REAR DOOR	FLUSH MOUNT W-FAN PREWIRE	FLUORESCENT 1'X4' 2 LAMPS	
	SWITCH - 4 WAY				

Community:

Lot #:

Address:

Orientation:
kitchen right

Plan Version Date:
1-18-23

Job Version Date:

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KSE
ENGINEERING

1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
www.kse-eng.com (215) 804-4449

PINECREST

RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):
• 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:
• ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
• UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
• HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
• FLOOR = 40 PSF
• FLOOR (SLEEPING AREAS) = 30 PSF
• DECK/BALCONY = 40 PSF
• STAIRS = 40 PSF

DESIGN DEAD LOADS:
• ROOF TRUSS = 17 PSF (TC=7, BC=10)
• FLOOR TRUSS = 15 PSF (TC=10, BC=5)
• FLOOR JOIST = 10 PSF
• STANDARD BRICK = 40 PSF
• QUEEN ANNE BRICK = 25 PSF

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS..

DESIGN WIND LOADS:
• ULTIMATE WIND SPEED = 120 MPH
• EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:
• BOISE CASCADE BCI 5000s 1.8 (SERIES AND SPACING PER PLANS)
• LSL: E=1,550,000 PSI, F_b=2,325 PSI, F_v=310 PSI, F_c=900 PSI
• LVL: E=2,000,000 PSI, F_b=2,600 PSI, F_v=285 PSI, F_c=750 PSI
• PSL: E=2,100,000 PSI, F_b=2,900 PSI, F_v=290 PSI, F_c=625 PSI



Cover Sheet
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #: 172-19002
Designed By: JPS
Checked By:
Issue Date: 8/7/19
Re-Issue: 4/24/25
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

GENERAL STRUCTURAL NOTES:

1. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
2. THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
3. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
5. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
7. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
8. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
10. WATERPROOFING AND FLASHING BY OTHERS.

FOUNDATIONS:

1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
4. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH ½" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. ½" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
7. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
9. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
12. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

1. CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES w/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN.
2. CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
3. AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.
4. NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
5. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
6. CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
7. CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
8. REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT.
9. ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
10. POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
11. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
12. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
13. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
14. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:
#4 BARS - 30" LENGTH
#5 BARS - 38" LENGTH
#6 BARS - 45" LENGTH
15. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
17. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. NO ROCKS, CMU, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
18. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

MASONRY

1. ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI. ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF ¾" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
2. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602.
3. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
4. EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
5. TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
6. HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.

WOOD FRAMING:

1. SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE: SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:
E=1,400,000 PSI, F_b=875 PSI, F_v=135 PSI
1.1. FRAMING: SPF #2.
1.2. PLATES: SPF #2.
1.3. STUDS: SPF STUD GRADE.
2. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
3. ANCHOR SILL PLATES IN ACCORDANCE w/ GENERAL STRUCTURAL NOTES.
4. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
5. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
6. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
7. INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
8. FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PILES.
9. FASTEN 4-PLY BEAMS WITH (1) ½" DIAMETER THROUGH BOLT w/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1½" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
10. ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
11. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW.
16" O.C. STUD SPACING: 24" O.C. STUD SPACING:
(1) STUD UP TO 3' OPENING (1) STUD UP TO 4' OPENING
(2) STUDS UP TO 4' OPENING (2) STUDS UP TO 8' OPENING
(3) STUDS UP TO 8' OPENING (3) STUDS UP TO 12' OPENING
(5) STUDS UP TO 12' OPENING (4) STUDS UP TO 16' OPENING
(6) STUDS UP TO 16' OPENING
12. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
16. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED.
17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH STRUCTURAL WALL SHEATHING OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.

EXTERIOR WOOD FRAMED DECKS:

1. DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS.
2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
3. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY OTHERS.
4. PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.

RAFTER FRAMED ROOF CONSTRUCTION:

1. PROVIDE 2x4x4'-0" RAFTER TIES AT 48" O.C.
2. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTER OR GABLE END FRAMING.
4. FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
5. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.

WOOD TRUSSES (FLOOR & ROOF):

1. THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
2. THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".
4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES. REFER TO BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED.
7. ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
8. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
9. TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS:

1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
2. ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
3. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE ¾" OSB MINIMUM.
4. WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
5. SHEATHING SHALL HAVE A ½" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

STRUCTURAL WALL SHEATHING PANELS:

1. SHEATH ALL EXTERIOR WALLS PER BRACED WALL SCHEDULE.
2. WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
2. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_y) OF 50 KSI UNLESS OTHERWISE NOTED.
3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.
4. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF ¾" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) ½" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
5. INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM w/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR ½" DIAMETER BOLTS AT 24" O.C.

MECHANICAL FASTENERS:

1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
3. MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.

LEGEND:

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ⇒ INTERIOR BEARING WALL ABOVE
- ⇒ INTERIOR BEARING WALL
- ⇒ WALL BRACING/SHEAR WALL
- SEE HOLD DOWN SCHEDULE AND DETAILS FOR TYPICAL INSTALLATION
- ⇒ AREA OF OVERFRAMING

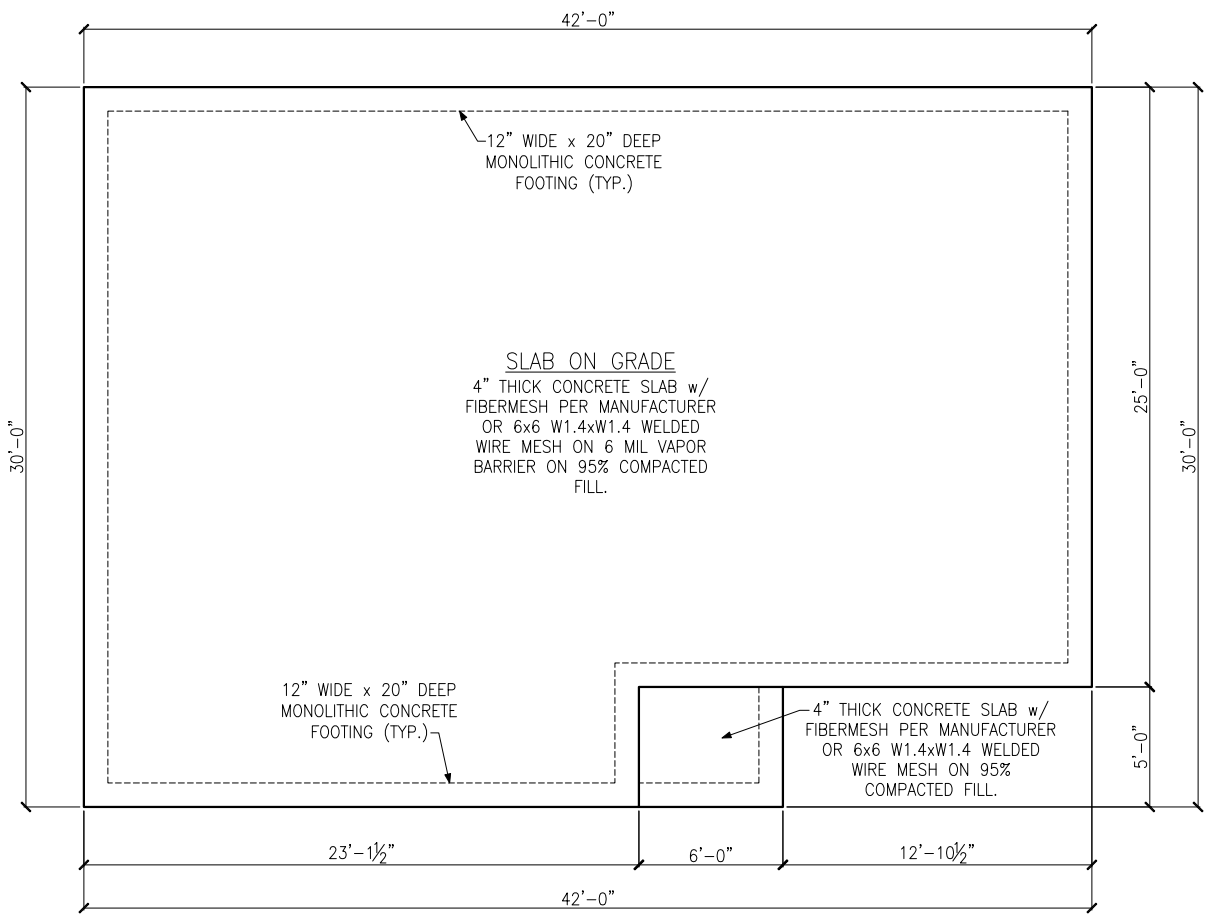
BRICK VENEER LINTEL SCHEDULE

SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"x3½"x¼"	4"
UP TO 6'-3"	5"x3½"x¾" L.L.V.	8"
UP TO 9'-6"	6"x3½"x¾" L.L.V.	12"

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.
SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.



FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 1

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⇒

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

⇒

BEARING WALL ABOVE

|||||

⇒

INTERIOR BEARING WALL

48" WSP

⇒

BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

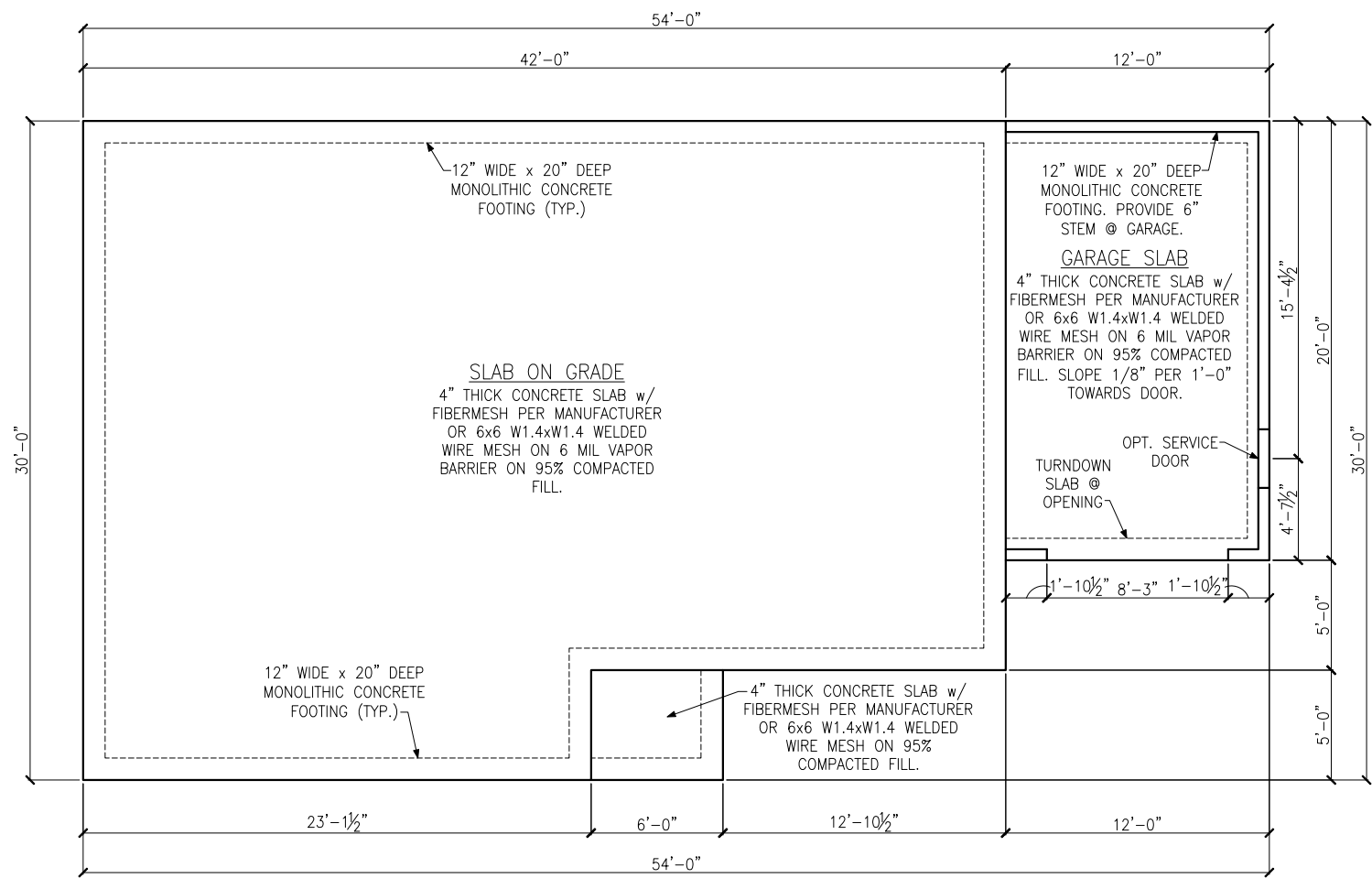
LEGEND



Monolithic Slab Foundation Plan
Elevation 1
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #: 172-19002
Designed By: JPS
Checked By:
Issue Date: 8/7/19
Re-Issue: 4/24/25
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 1
OPT. 1 CAR GARAGE

LEGEND

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ⇒ BEARING WALL ABOVE
- ⇒ INTERIOR BEARING WALL
- ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

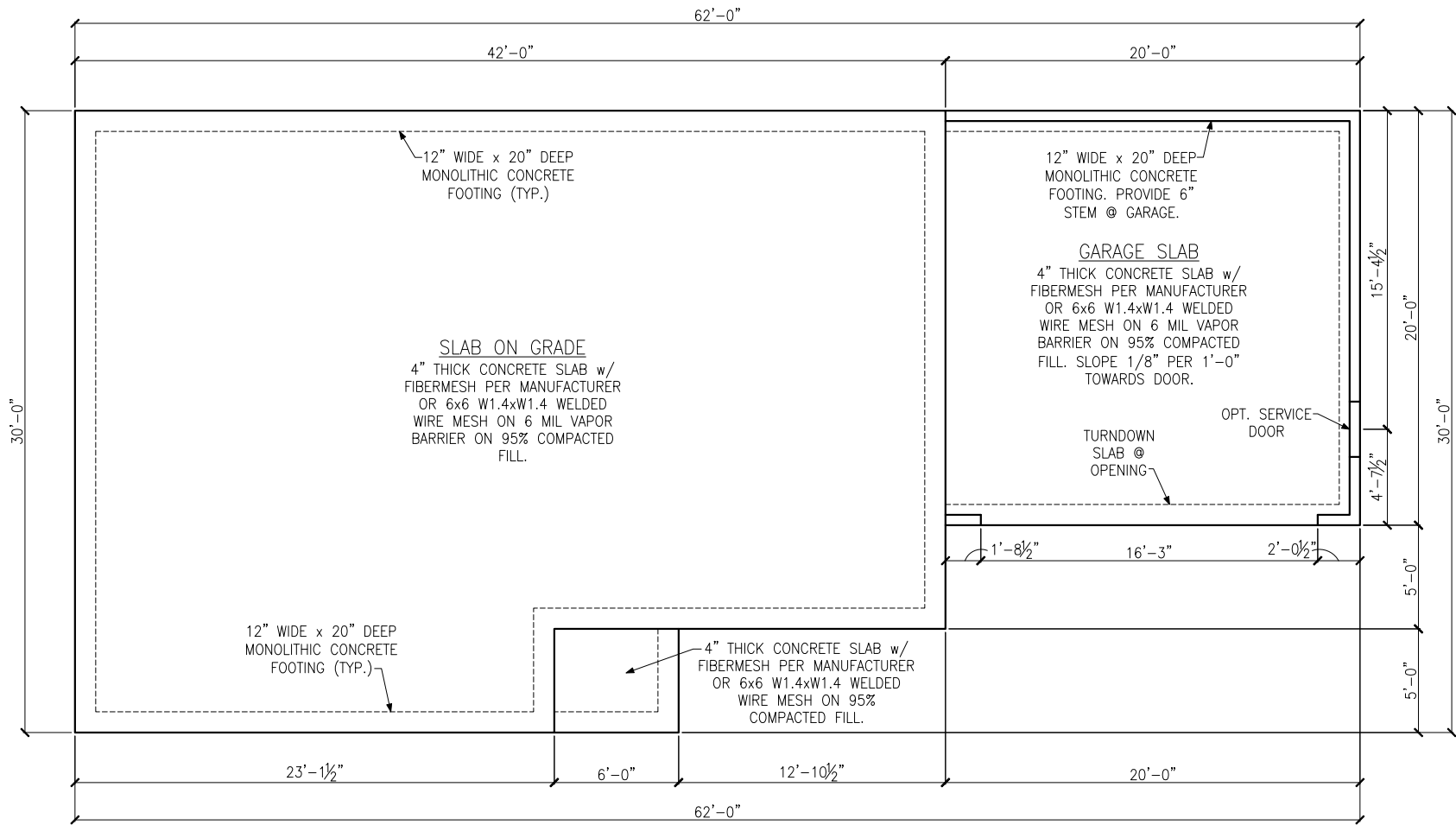
48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS



Monolithic Slab Foundation Plan
Elevation 1 w/ Opt. 1 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 1
OPT. 2 CAR GARAGE

FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE

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48" WSP

PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL
(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

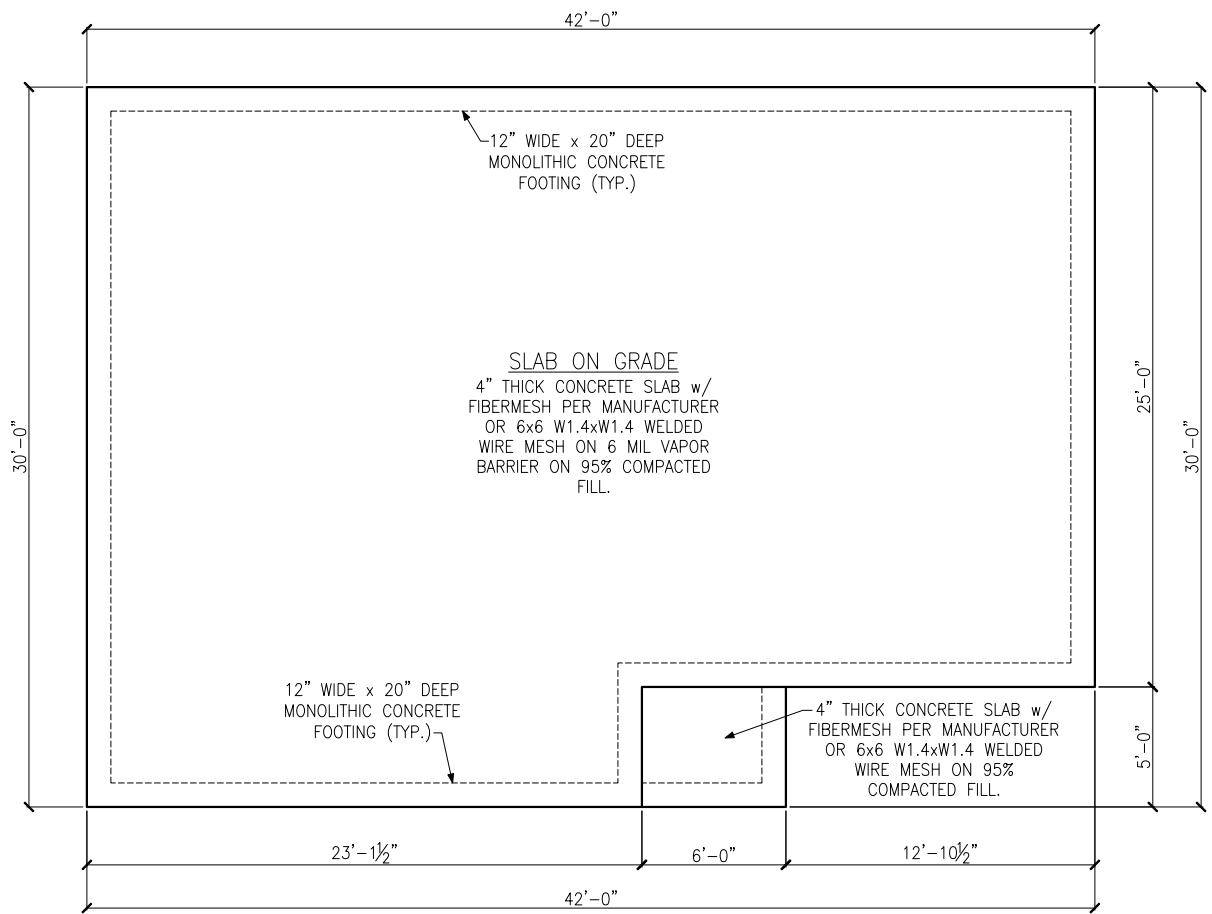
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Monolithic Slab Foundation Plan
Elevation 1 w/ Opt. 2 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 2

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⇒

PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

⇒

BEARING WALL ABOVE

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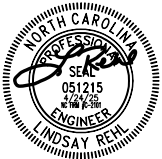
INTERIOR BEARING WALL

48" WSP

⇒

BRACED WALL PANEL
(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS
SET FOR GENERAL STRUCTURAL NOTES
AND TYPICAL DETAILS

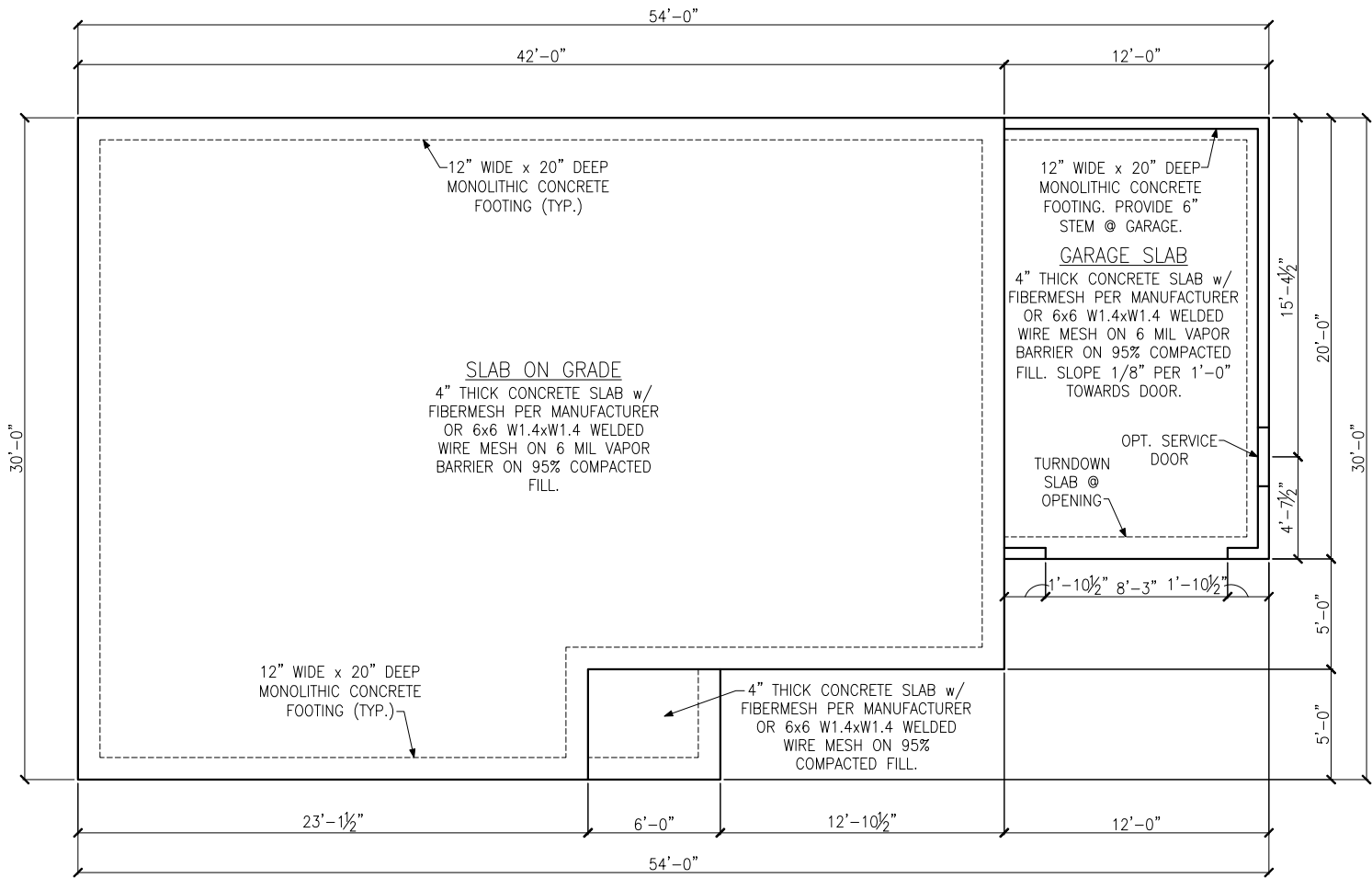


Monolithic Slab Foundation Plan
Elevation 2
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 2
OPT. 1 CAR GARAGE

LEGEND

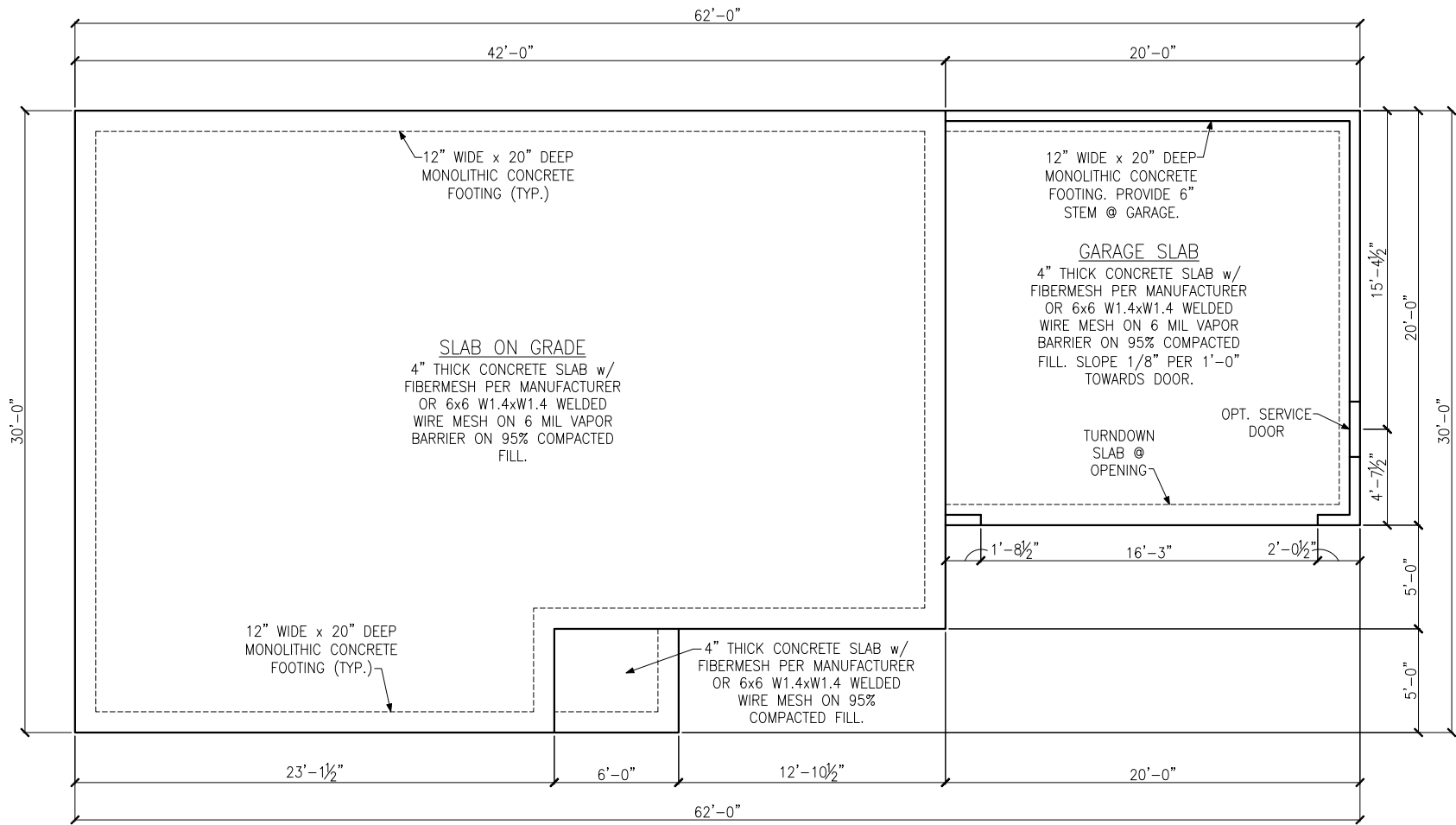
- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ⇒ BEARING WALL ABOVE
- ⇒ INTERIOR BEARING WALL
- ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS



Monolithic Slab Foundation Plan
Elevation 2 w/ Opt. 1 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 2
OPT. 2 CAR GARAGE

FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE

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48" WSP

PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL
(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

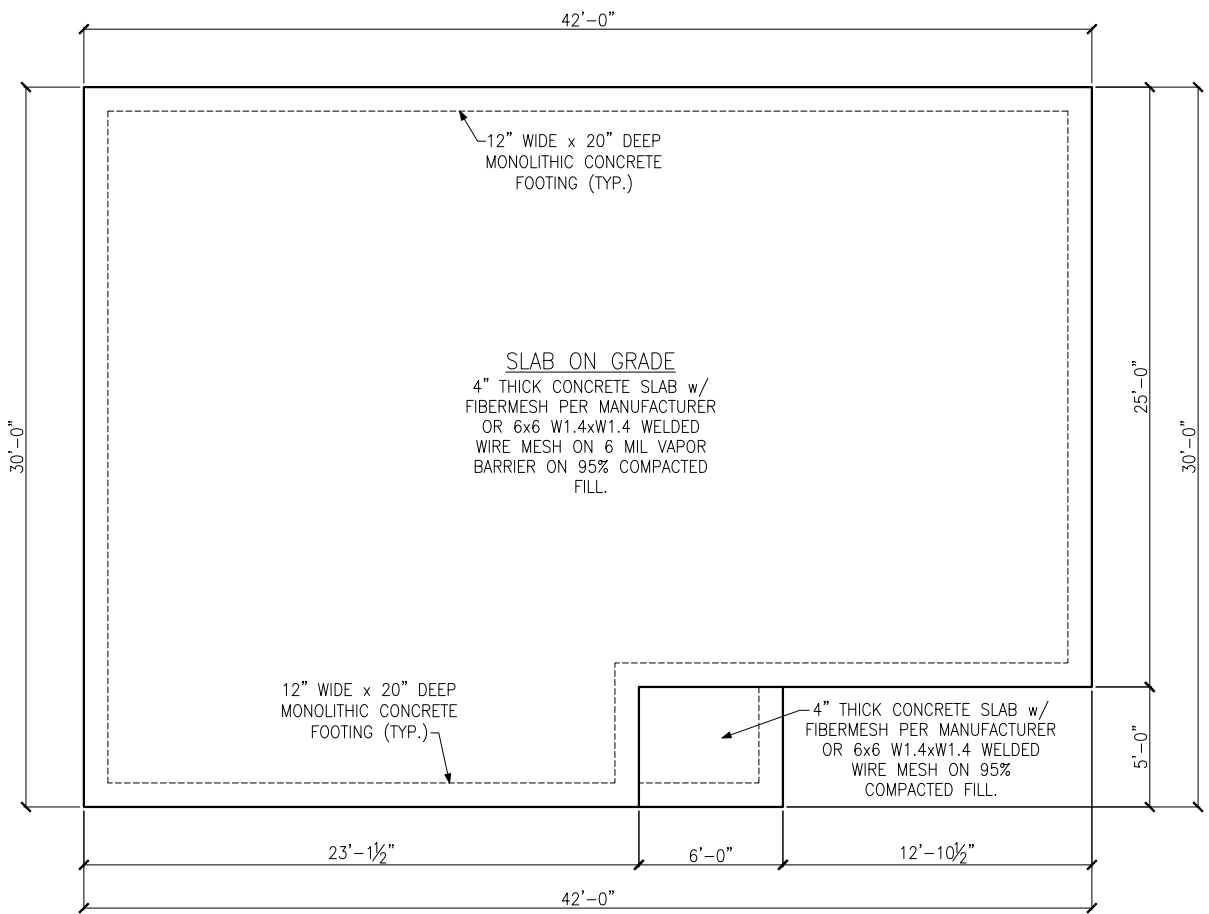
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Monolithic Slab Foundation Plan
Elevation 2 w/ Opt. 2 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 3

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PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

⇒

BEARING WALL ABOVE

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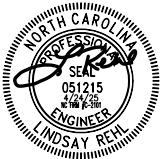
INTERIOR BEARING WALL

48" WSP

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BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

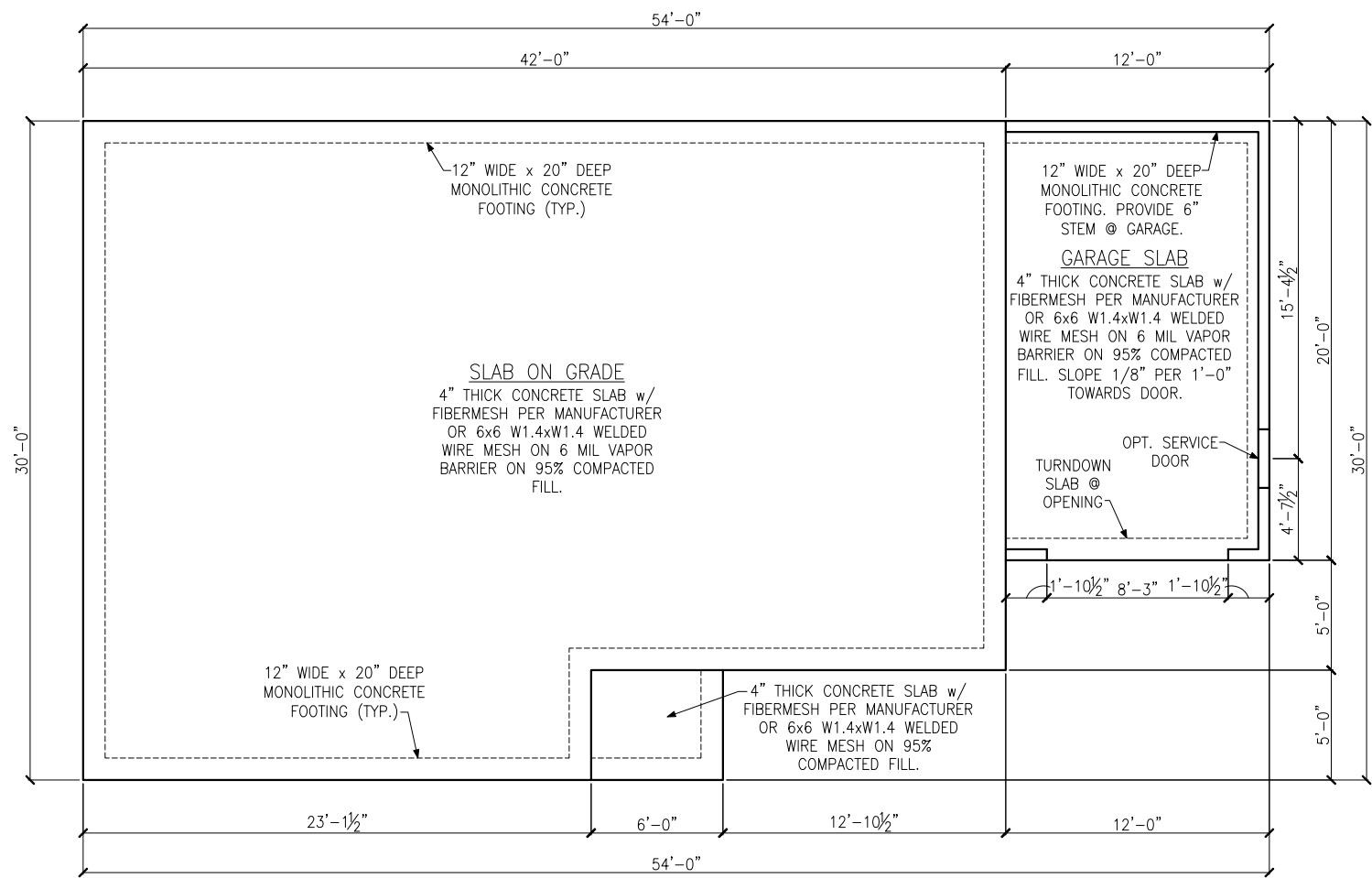
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Monolithic Slab Foundation Plan
Elevation 3
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 3
OPT. 1 CAR GARAGE

LEGEND

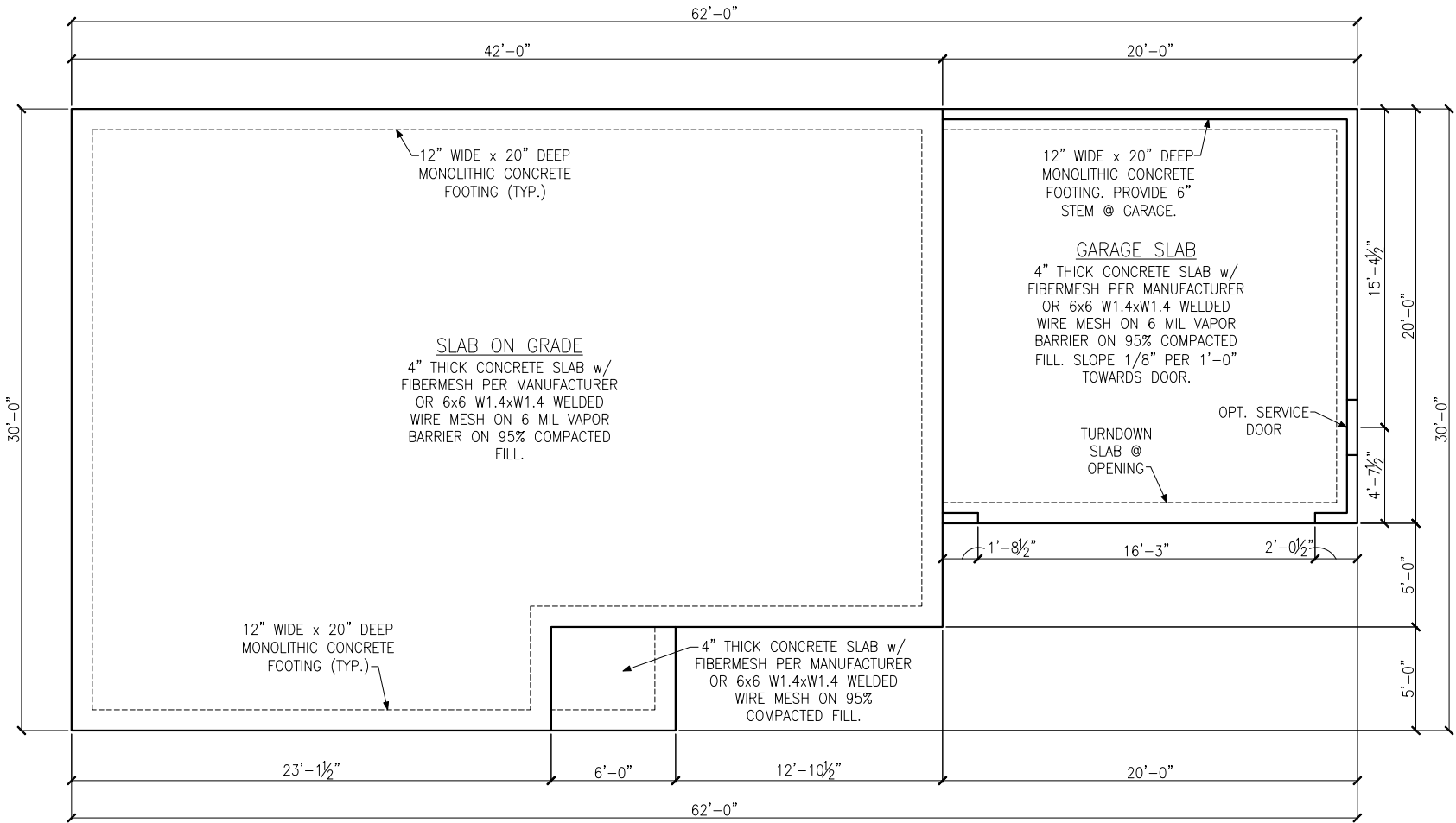
- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ⇒ BEARING WALL ABOVE
- ⇒ INTERIOR BEARING WALL
- ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

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Elevation 3 w/ Opt. 1 Car Garage
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MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 3
OPT. 2 CAR GARAGE

FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE

LEGEND

- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- == BEARING WALL
- == INTERIOR BEARING WALL
- == BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

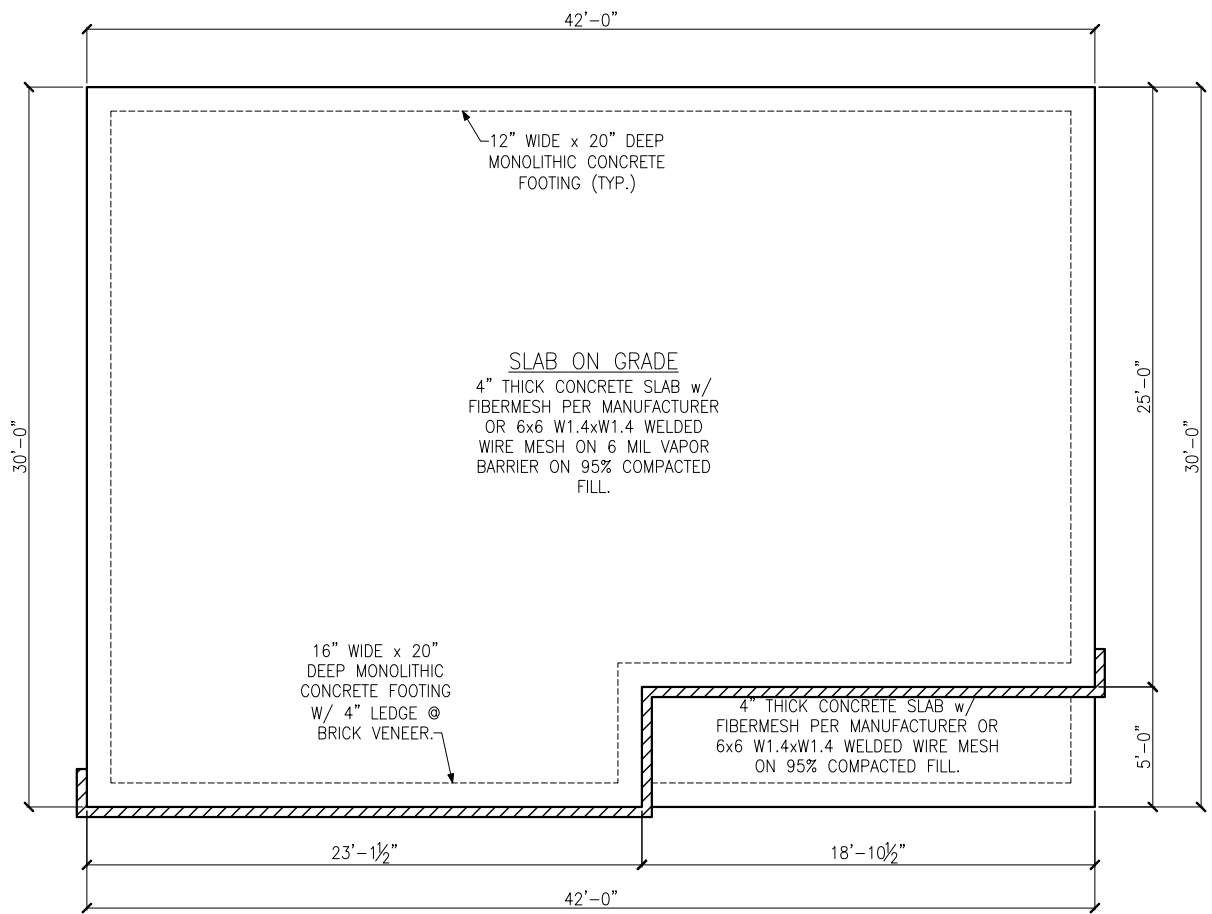
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Monolithic Slab Foundation Plan
Elevation 3 w/ Opt. 2 Car Garage
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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 4

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48" WSP

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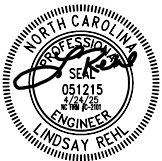
PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL
(SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

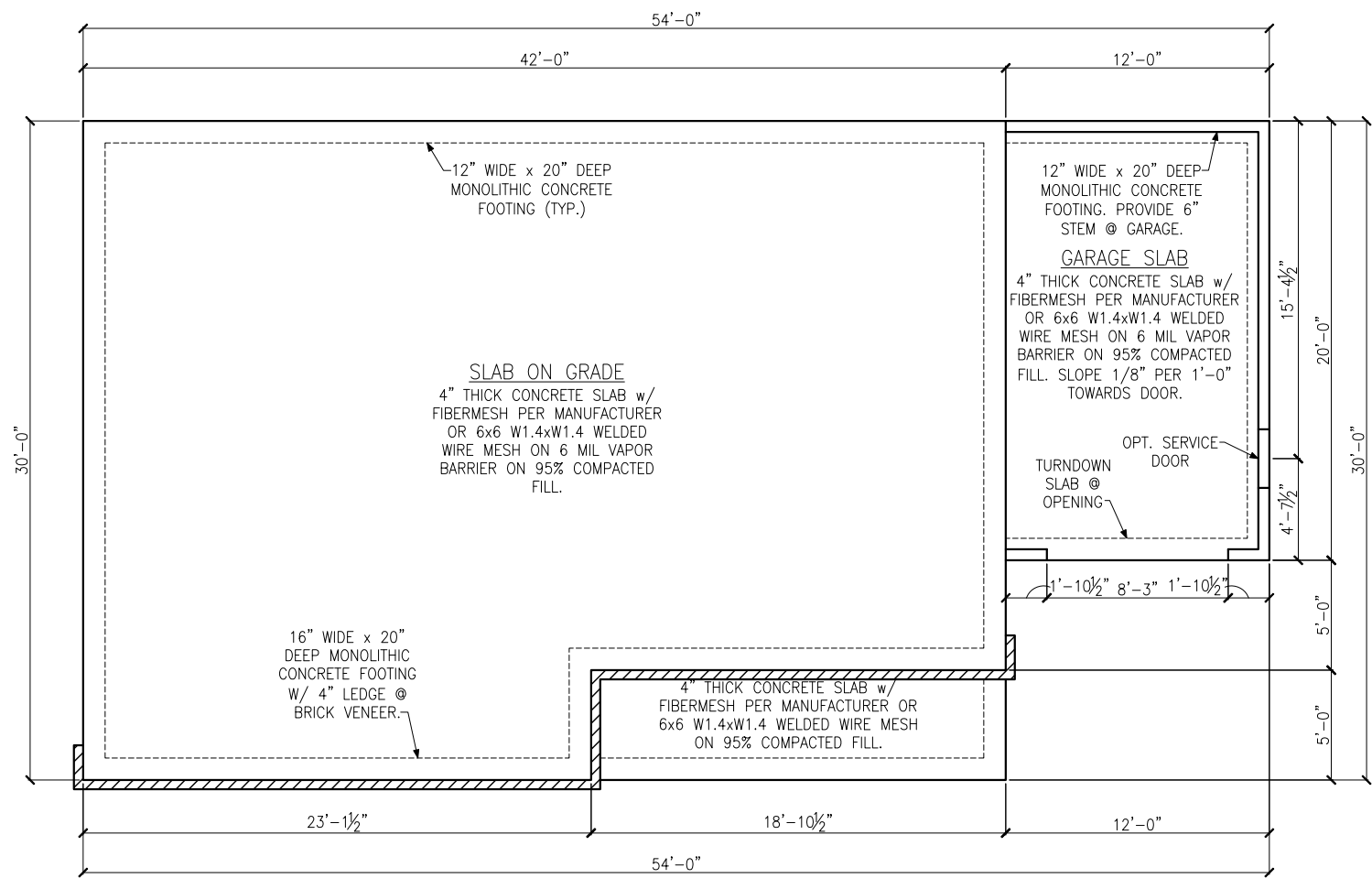
REFER TO KSE STRUCTURAL DETAILS
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Monolithic Slab Foundation Plan
Elevation 4
Pinecrest
120 M.P.H.
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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
EDGE OF FRAMING ABOVE



MONOLITHIC SLAB FOUNDATION PLAN
ELEVATION 4
OPT. 1 CAR GARAGE

LEGEND

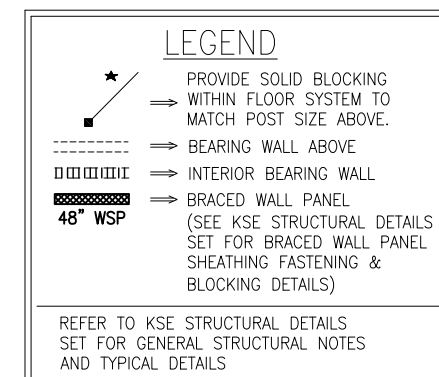
- ★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- ⇒ BEARING WALL ABOVE
- ⇒ INTERIOR BEARING WALL
- ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

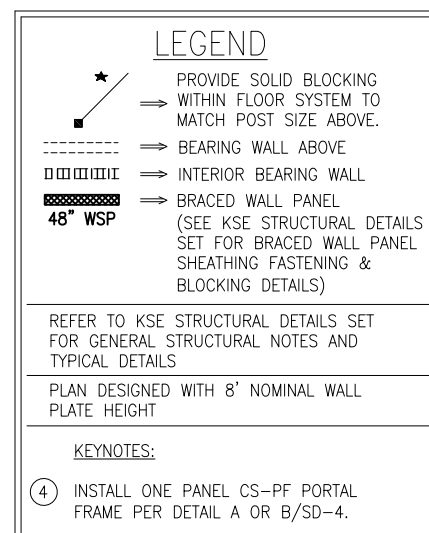


Monolithic Slab Foundation Plan
Elevation 4 w/ Opt. 1 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

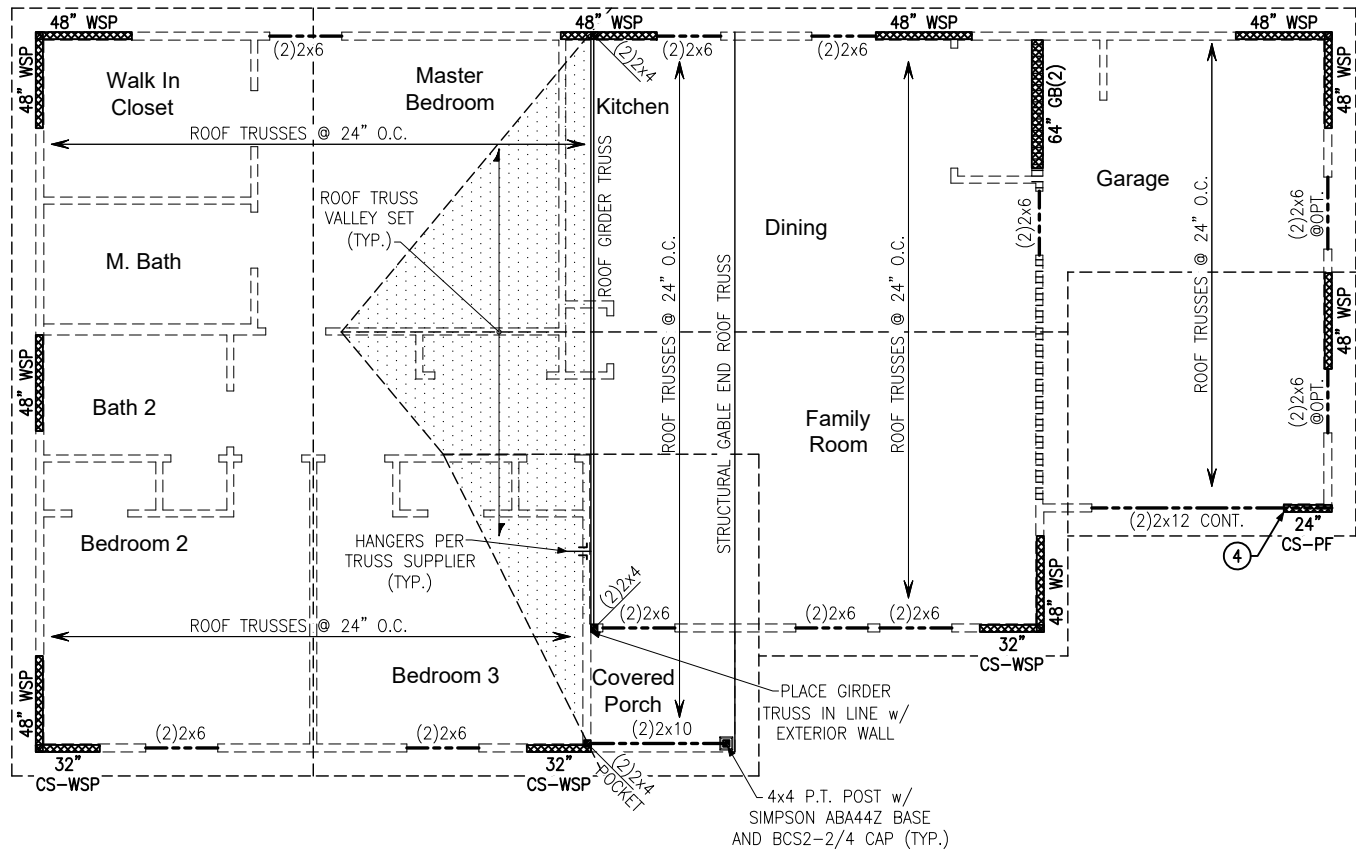
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FOUNDATION DIMENSIONS
ARE TO EXTERIOR FACE
OF WALL SHEATHING, NOT
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Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



ROOF FRAMING PLAN
ELEVATION 1
OPT. 1 CAR GARAGE

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

|||||

INTERIOR BEARING WALL

48" WSP

BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

KEYNOTES:

④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Roof Framing Plan
Elevation 1 w/ Opt. 1 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

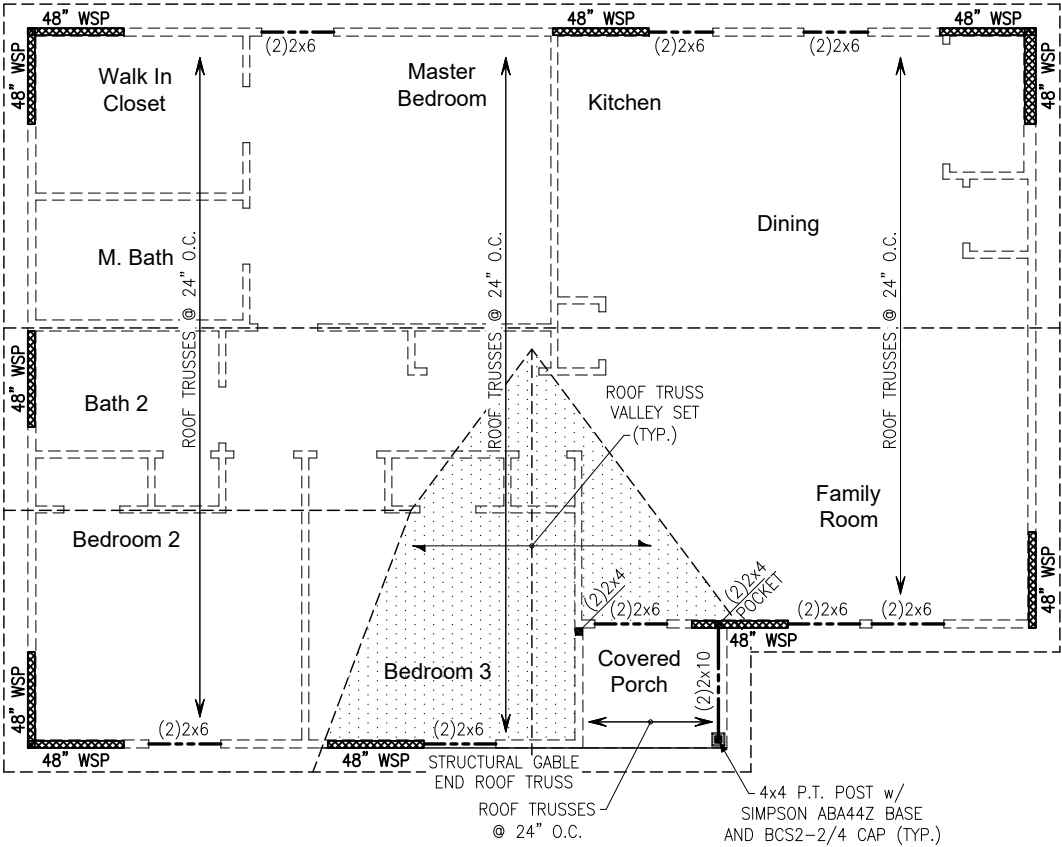
Project #:	172-19002
Designed By:	JPS
Checked By:	
Issue Date:	8/7/19
Re-Issue:	4/24/25
Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



Roof Framing Plan
Elevation 1 w/ Opt. 2 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #:	172-19002
Designed By:	JPS
Checked By:	
Issue Date:	8/7/19
Re-Issue:	4/24/25
Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

S-2.2



ROOF FRAMING PLAN
ELEVATION 2

LEGEND

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

KEYNOTES:

④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





Roof Framing Plan
Elevation 2 w/ Opt. 1 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #:	172-19002
Designed By:	JPS
Checked By:	
Issue Date:	8/7/19
Re-Issue:	4/24/25
Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

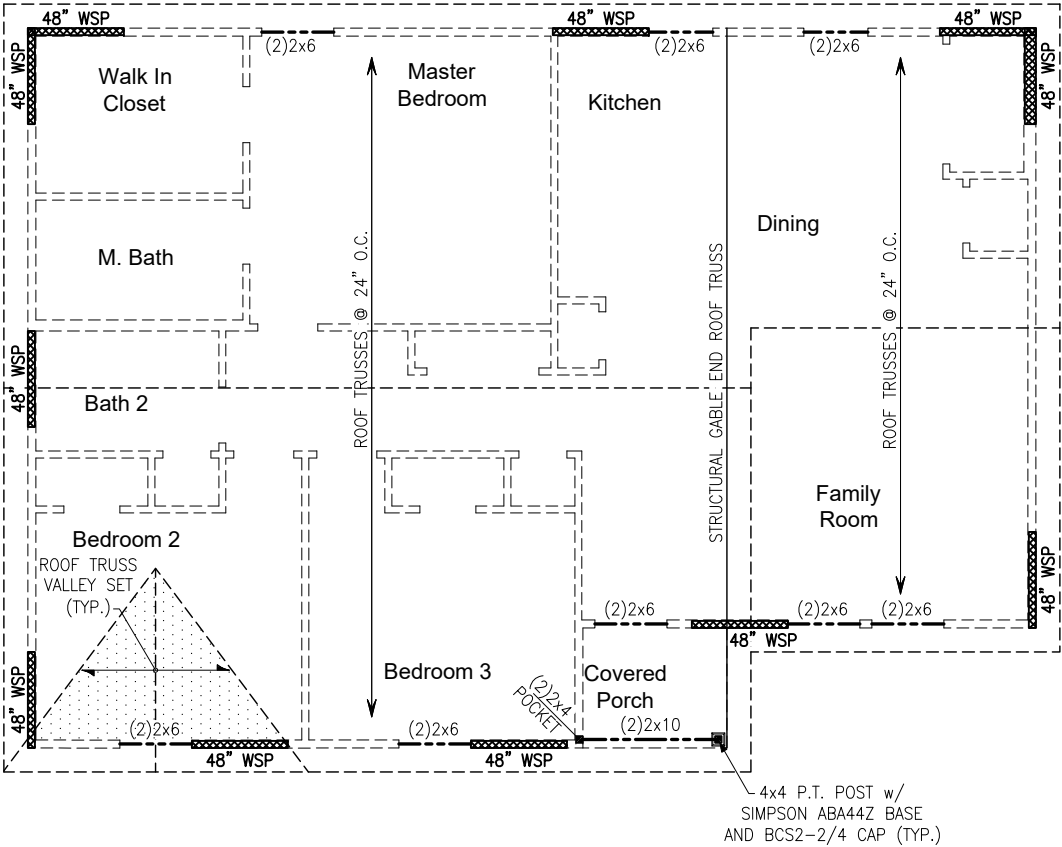
S-2.4



Roof Framing Plan
Elevation 2 w/ Opt. 2 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #:	172-19002
Designed By:	JPS
Checked By:	
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Scale:	1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

S-2.5



ROOF FRAMING PLAN
ELEVATION 3

LEGEND

★ ⇒ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

----- ⇒ BEARING WALL ABOVE

||||| ⇒ INTERIOR BEARING WALL

48" WSP ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

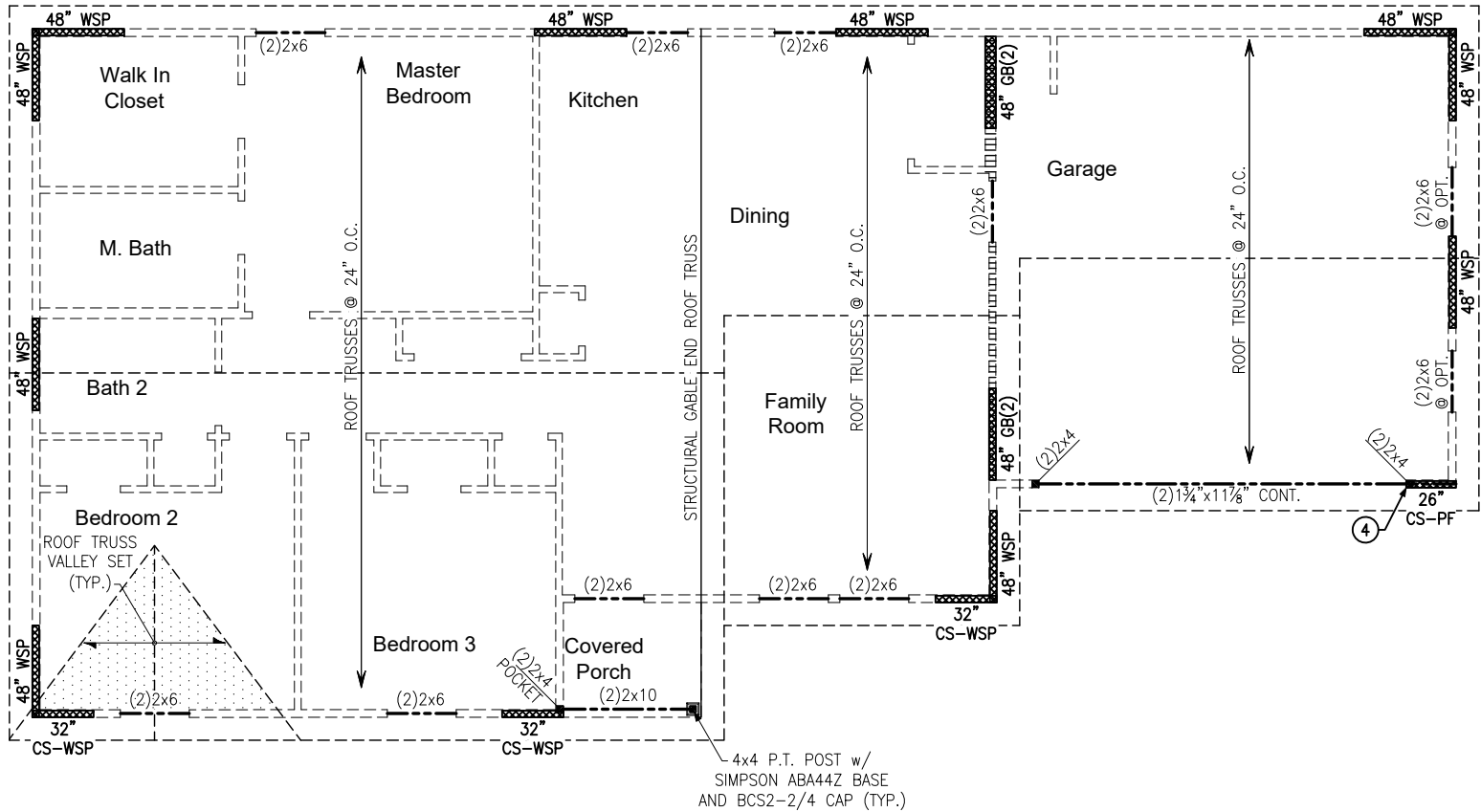
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

KEYNOTES:

④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





ROOF FRAMING PLAN
ELEVATION 3
OPT. 2 CAR GARAGE

LEGEND

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

KEYNOTES:

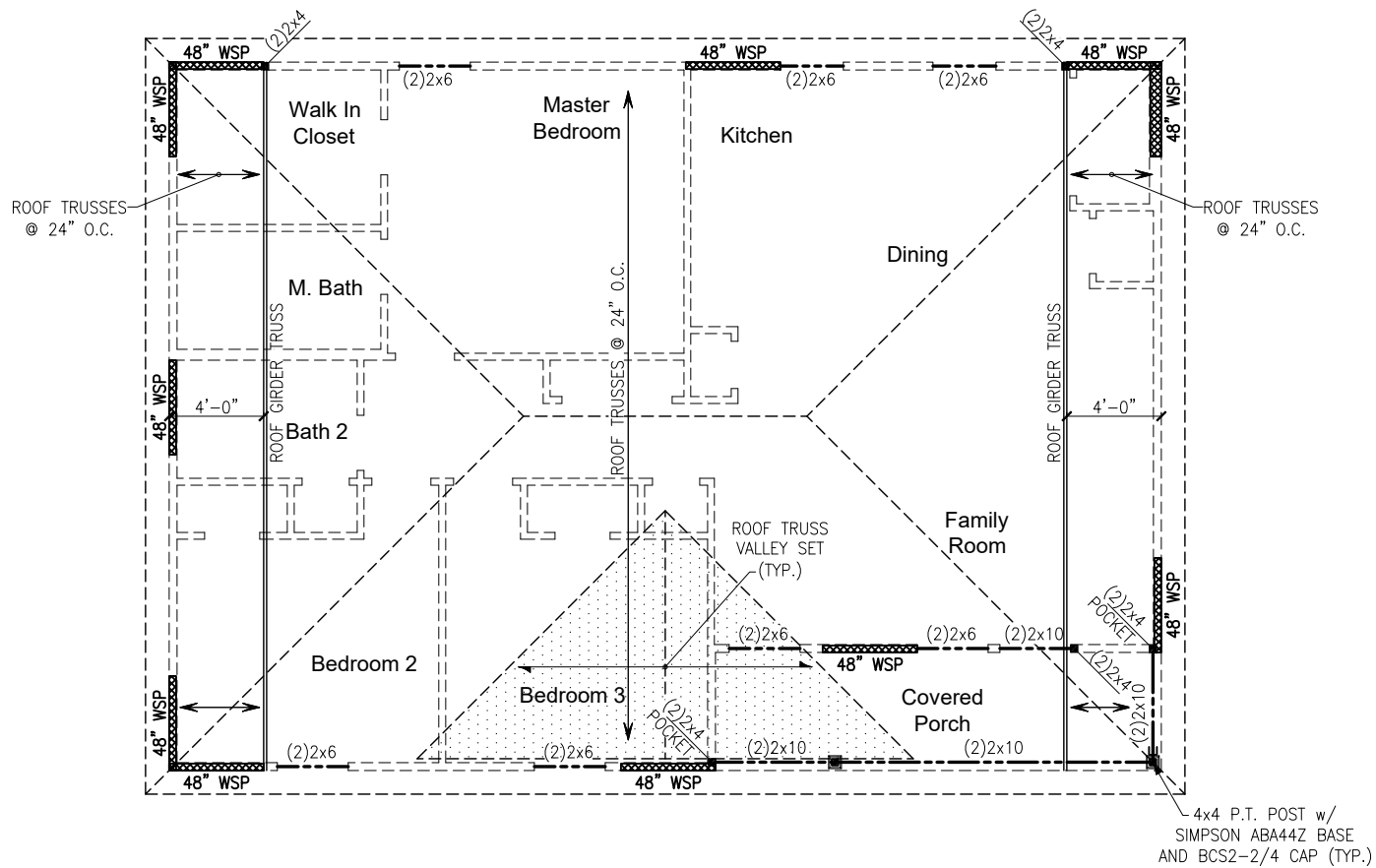
(4)

INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Roof Framing Plan
Elevation 3 w/ Opt. 2 Car Garage
Pinecrest
120 M.P.H.
Raleigh, North Carolina

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LEGEND

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

BEARING WALL ABOVE

INTERIOR BEARING WALL

BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

48" WSP

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

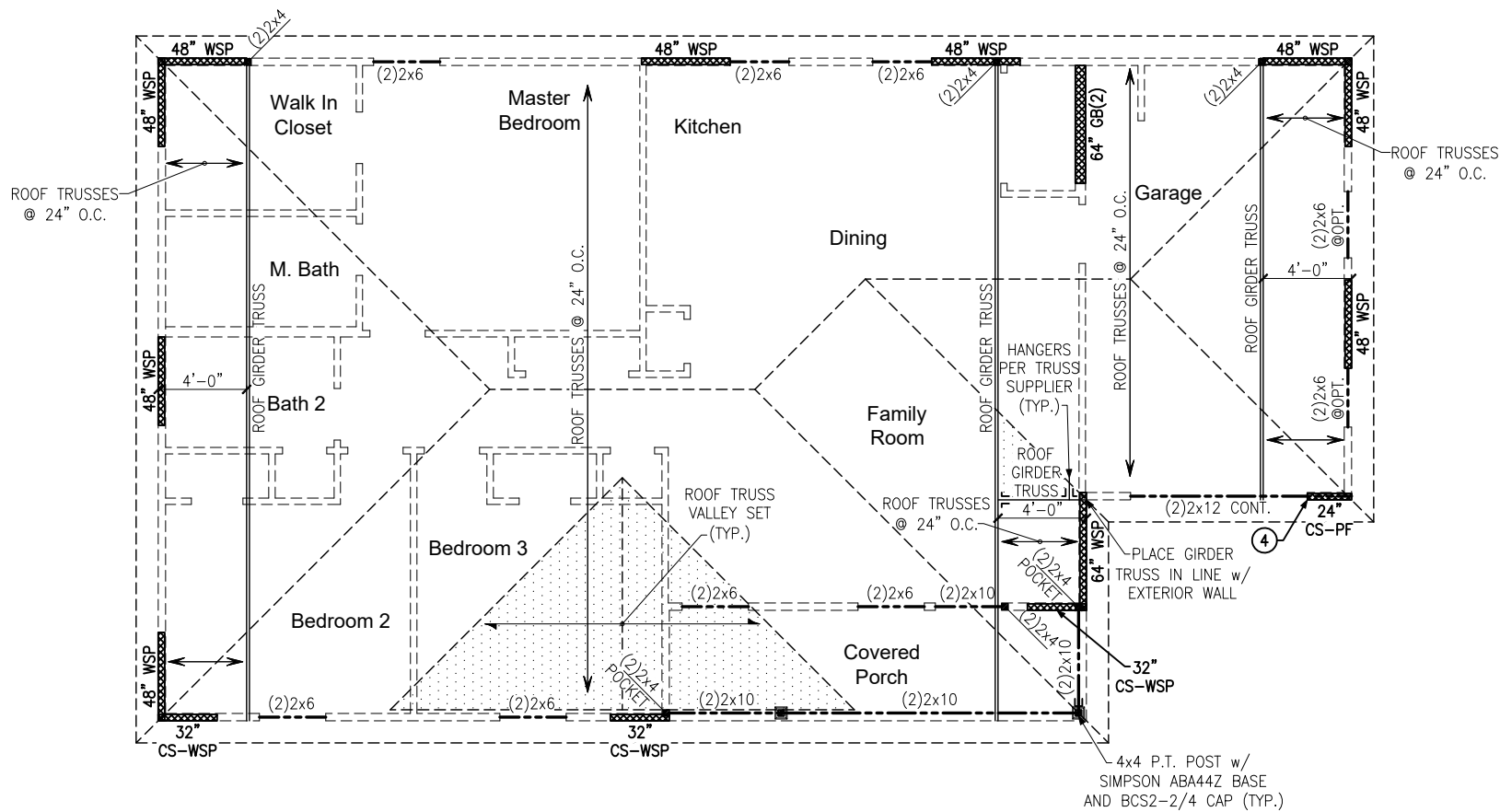
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

KEYNOTES:

④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

ROOF FRAMING PLAN
ELEVATION 4





ROOF FRAMING PLAN
ELEVATION 4
OPT. 1 CAR GARAGE

LEGEND

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
 BEARING WALL ABOVE
 INTERIOR BEARING WALL
 BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

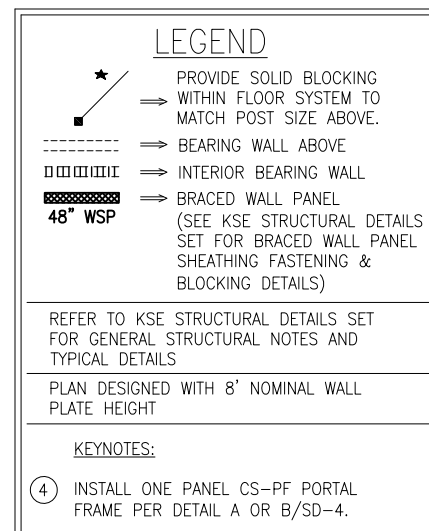
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT

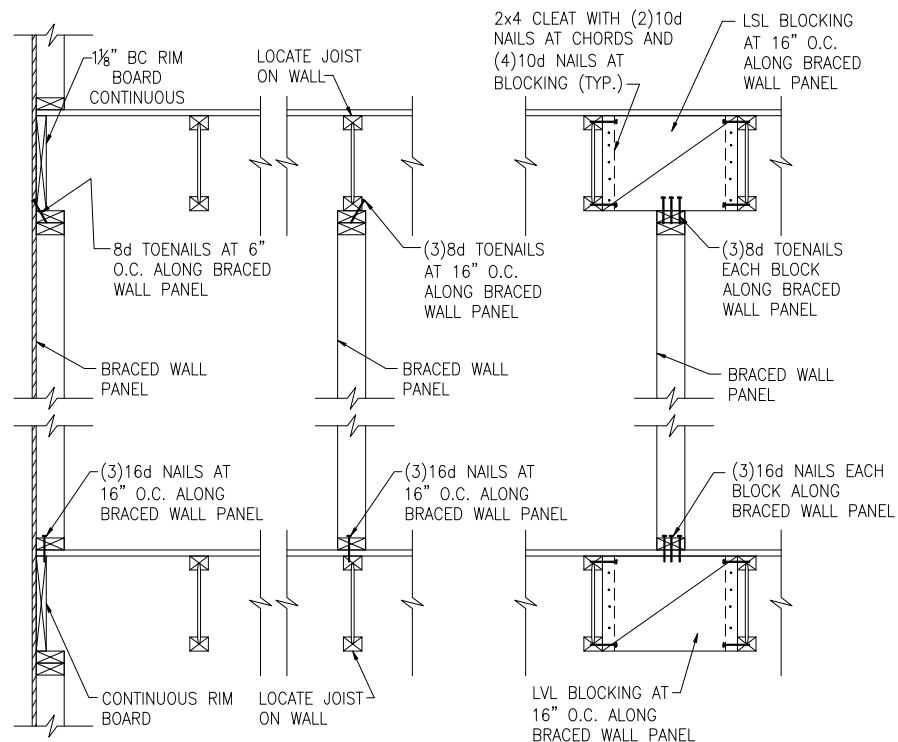
KEYNOTES:

④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

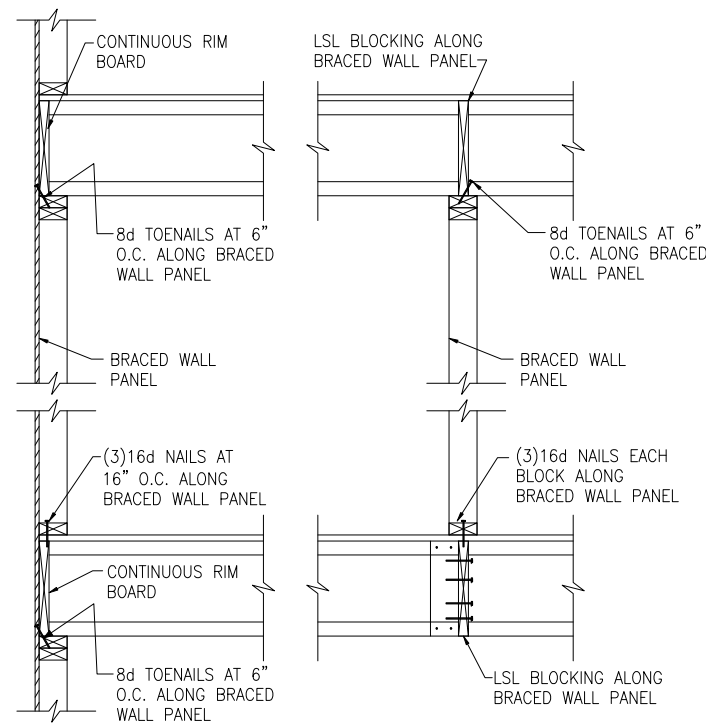




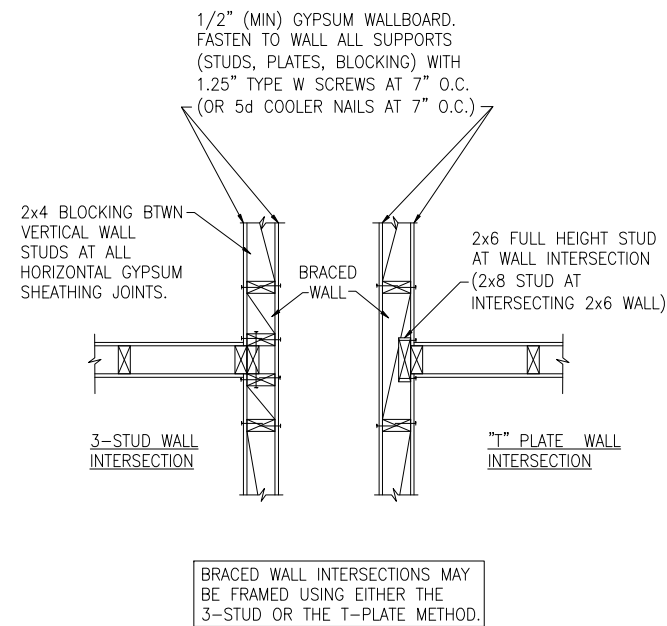
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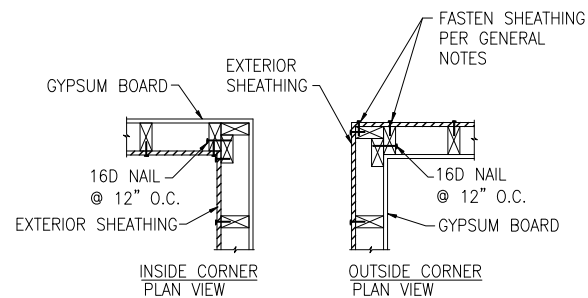
A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO I-JOISTS



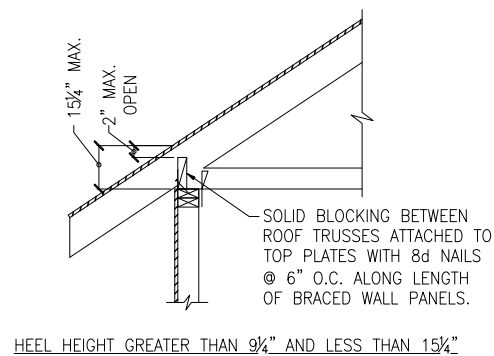
B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS



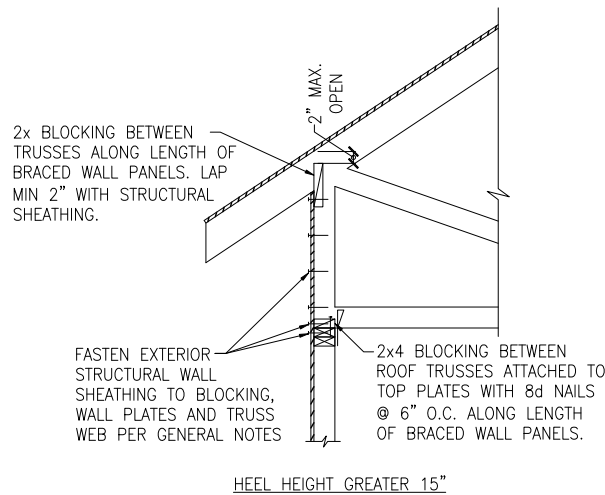
C METHOD GB(1) AND GB(2) INTERSECTION DETAILS

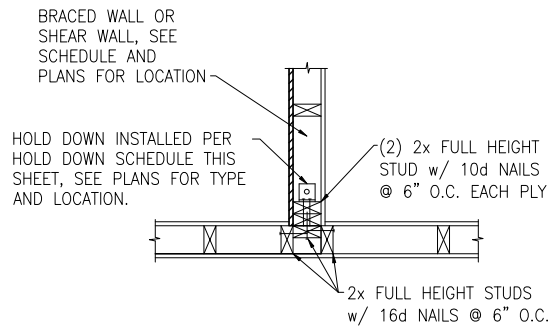


D TYPICAL EXTERIOR CORNER WALL FRAMING

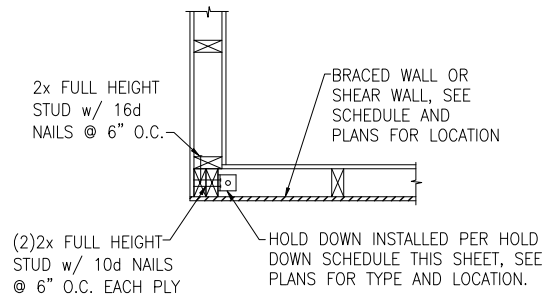


E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
ONLY REQUIRED AT BRACED WALL PANELS

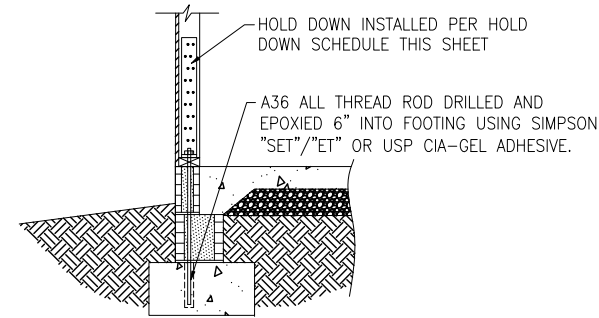




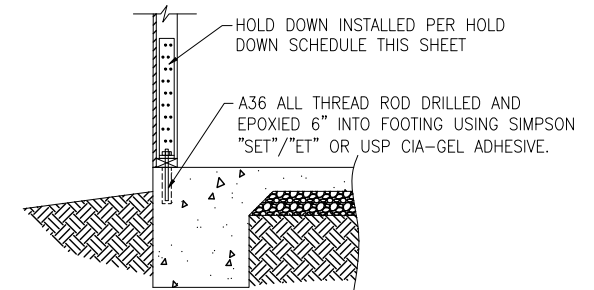
(A) TYPICAL HOLD DOWN DETAIL



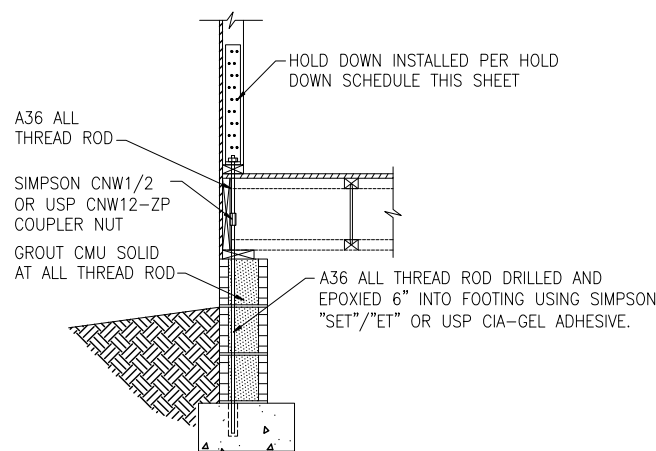
(B) TYPICAL HOLD DOWN DETAIL



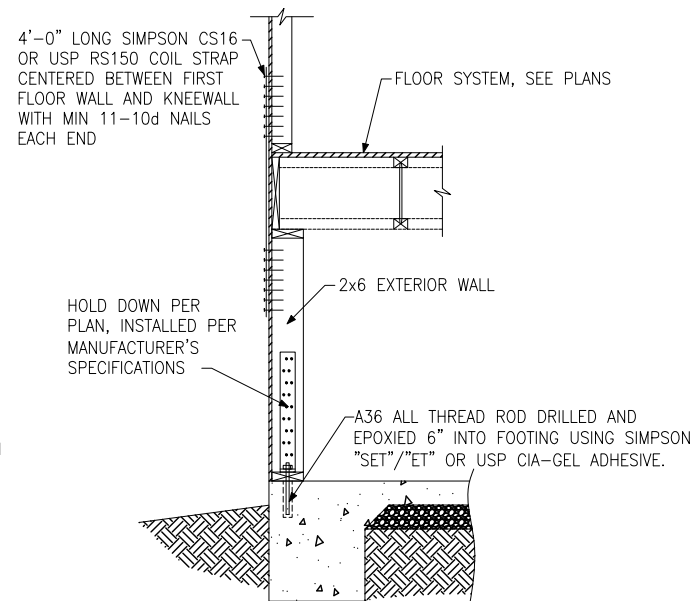
(C) HOLD DOWN AT STEM WALL SLAB



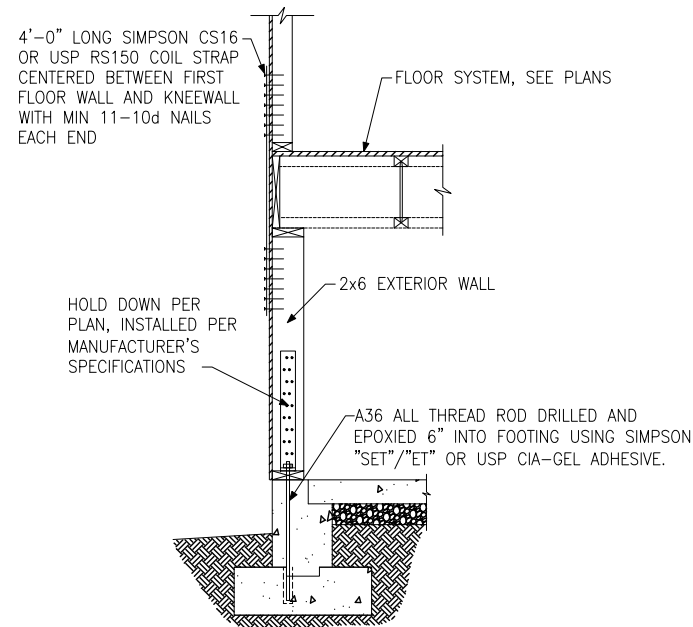
(D) HOLD DOWN AT MONOLITHIC SLAB



(E) HOLD DOWN AT CRAWL FOUNDATION



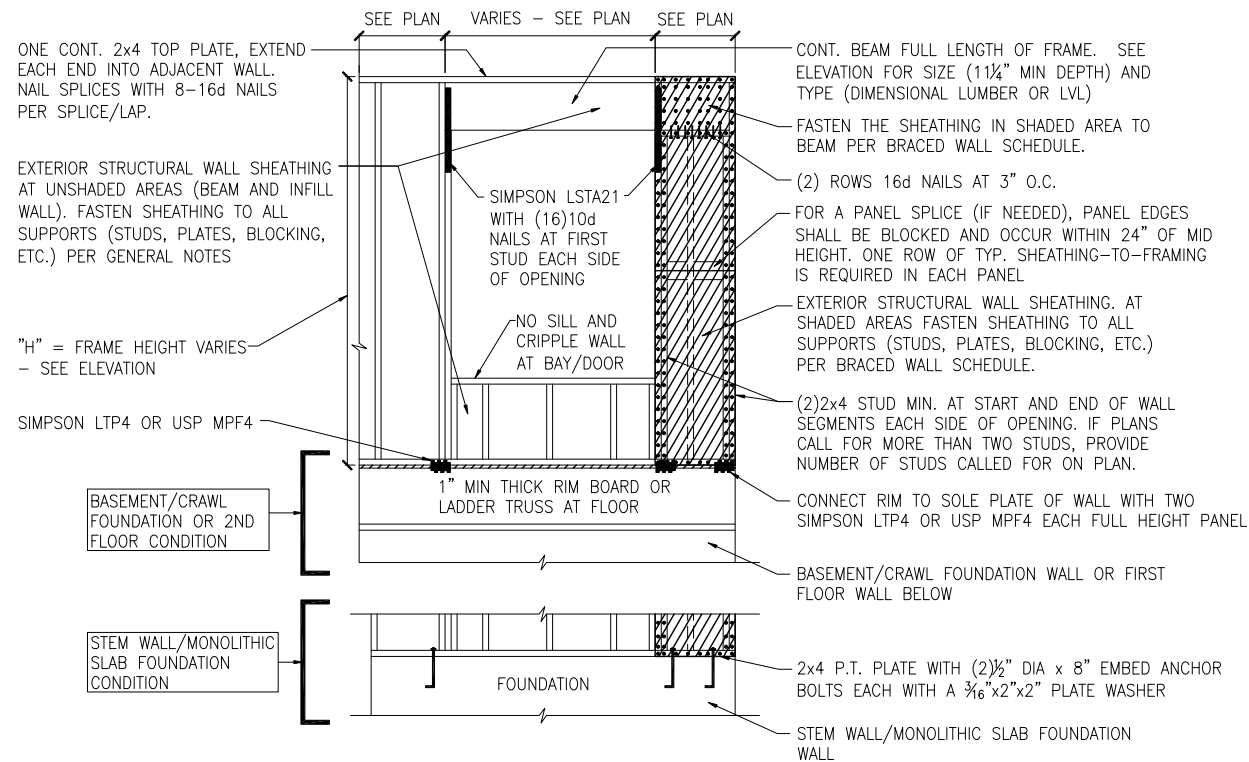
(F) HOLD DOWN AT BASEMENT MONOLITHIC TURN-DOWN



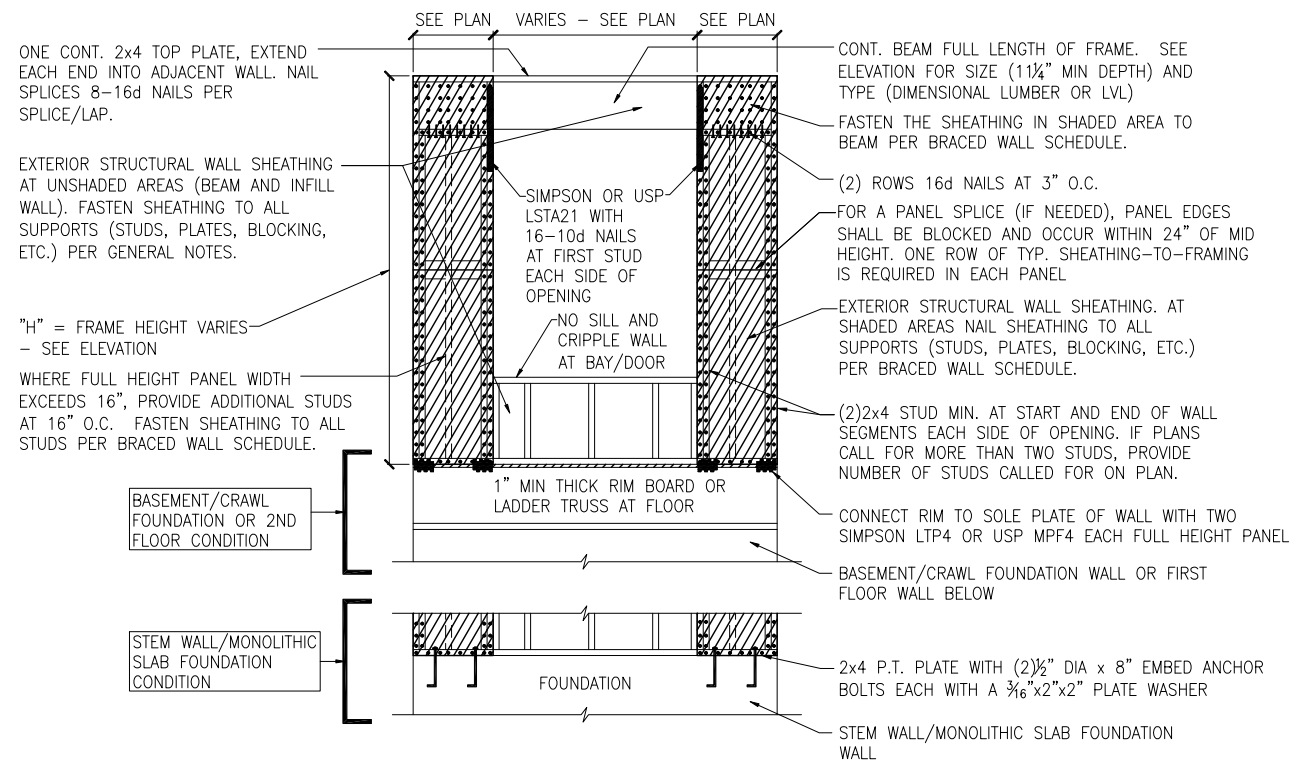
(G) HOLD DOWN AT BASEMENT STEM WALL

HOLD DOWN SCHEDULE			
HOLD DOWN		ALL TREAD ROD	FASTENERS
SIMPSON	USP		
LTP2	LTS20B	½" DIA.	(10)10d NAILS
HTT4	HTT16	⅝" DIA.	(18)16d x 2½" LONG NAILS
HTT5	HTT45	⅝" DIA.	(26)16d x 2½" LONG NAILS

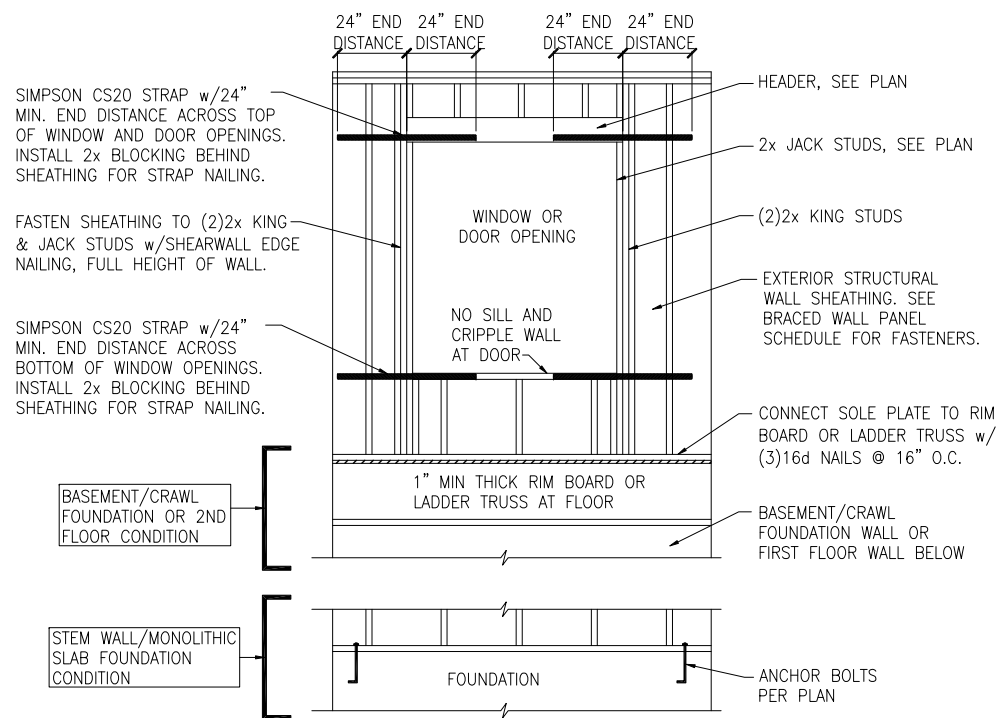




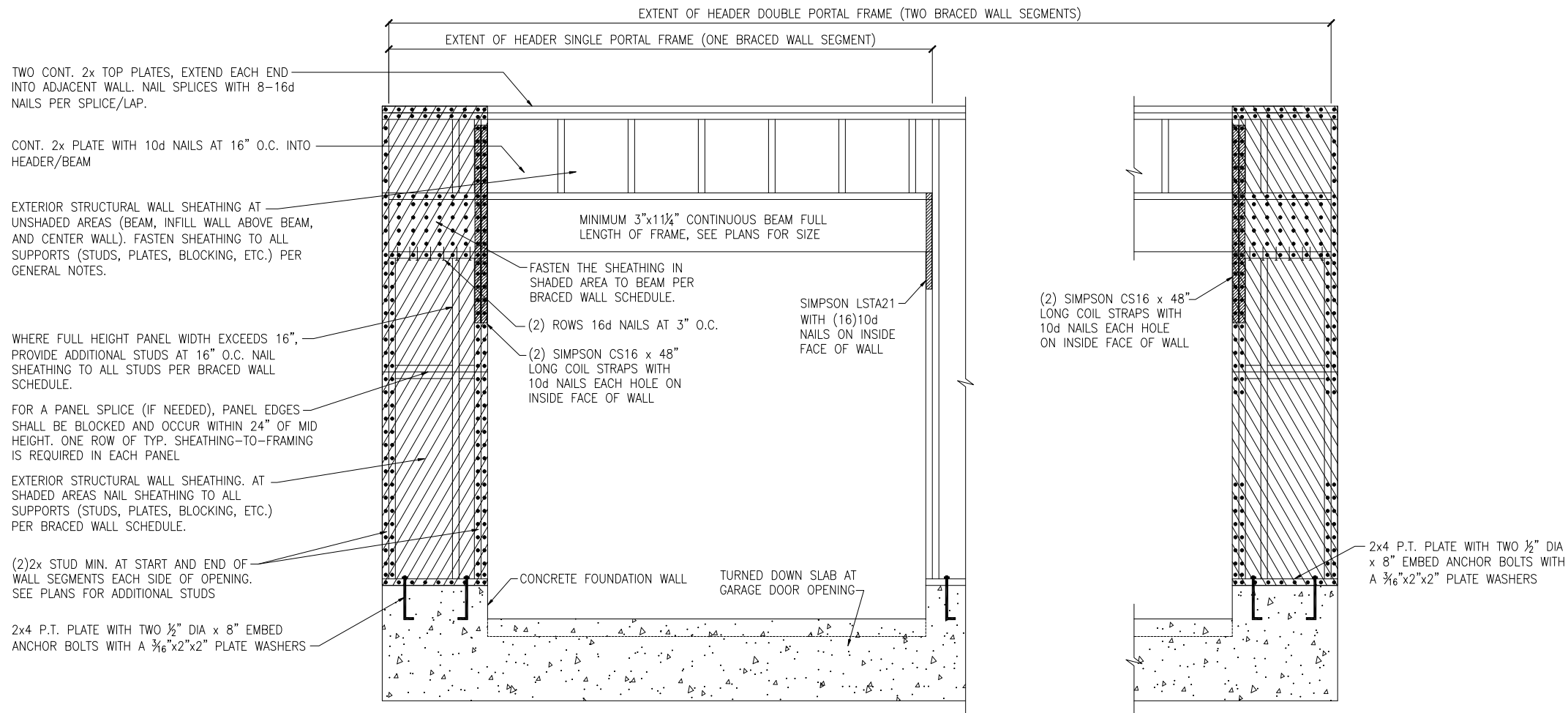
A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
ONE BRACED WALL SEGMENT



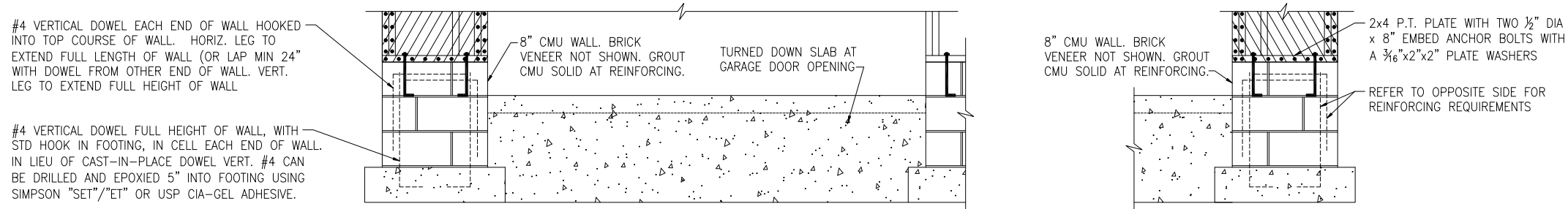
B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
TWO BRACED WALL SEGMENTS



C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS



A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION



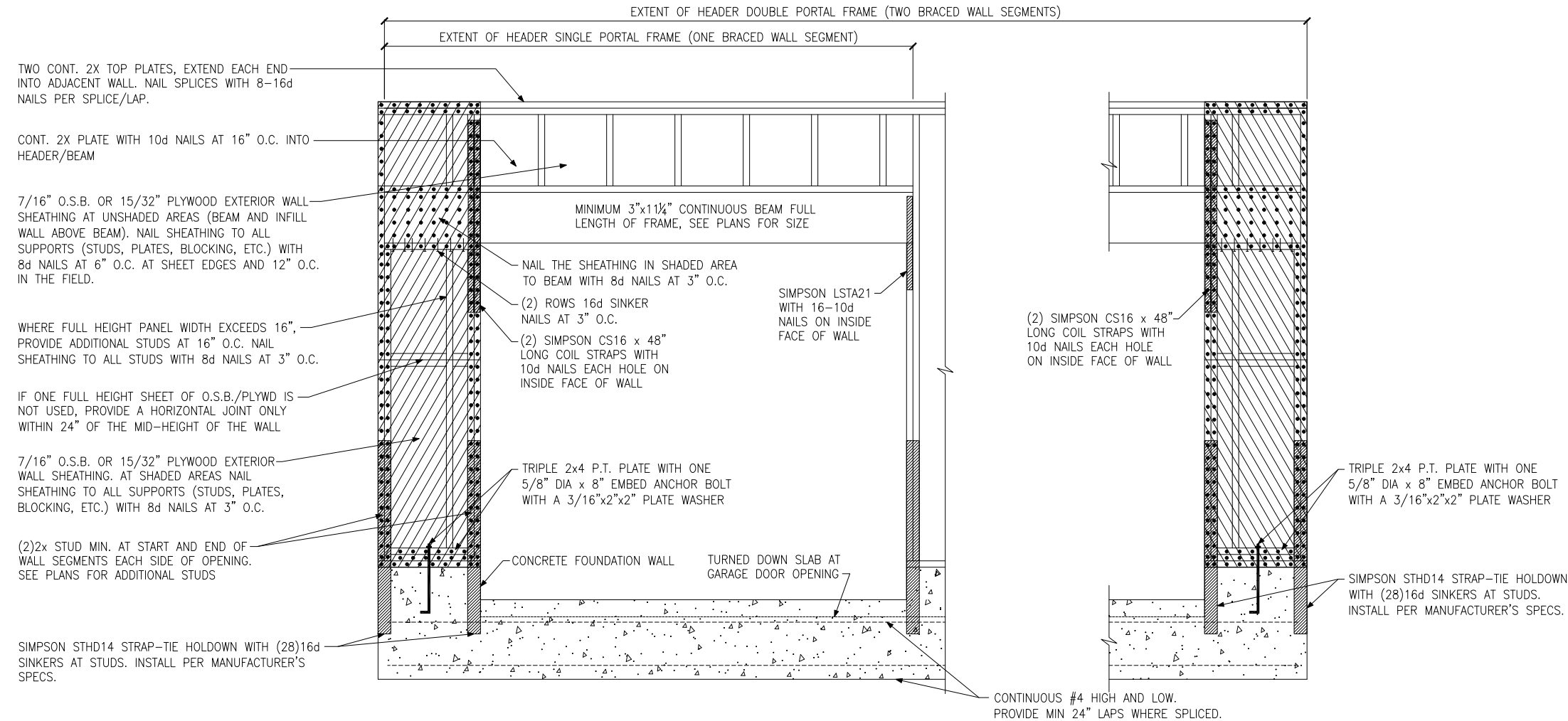
B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
STEM WALL SLAB OR CRAWL SPACE FOUNDATION



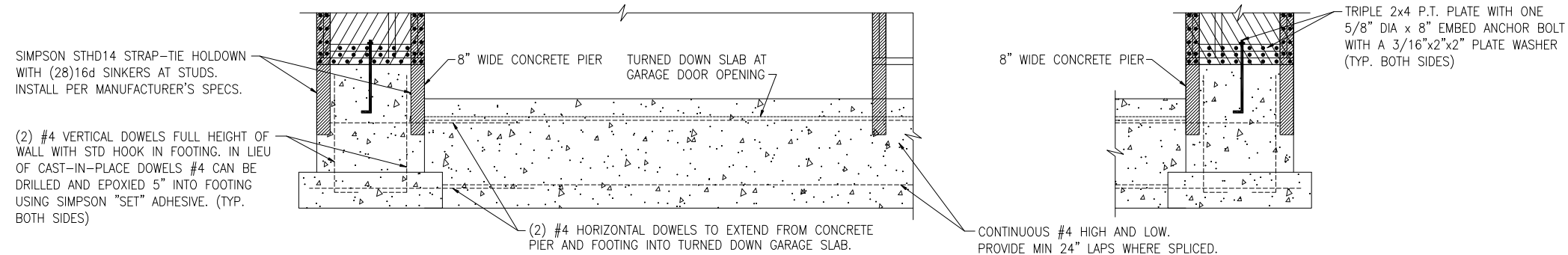
Method CS-PF: Continuous Portal Frame Details

Pinecrest
120 M.P.H.
Raleigh, North Carolina

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A METHOD CS-EPF: PORTAL FRAME WITH HOLD-DOWNS
MONOLITHIC SLAB OR BASEMENT FOUNDATION



B METHOD CS-EPF: PORTAL FRAME WITH HOLD-DOWNS
STEM WALL SLAB OR CRAWL SPACE FOUNDATION

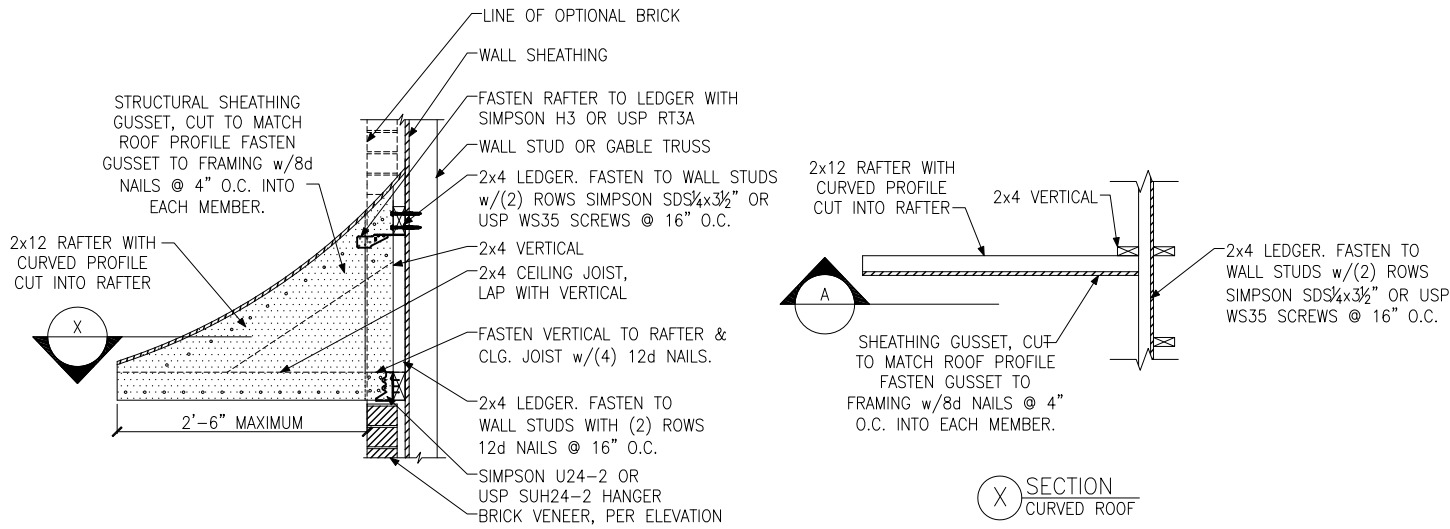


Method CS-EPF: Portal Frame w/ Hold-downs

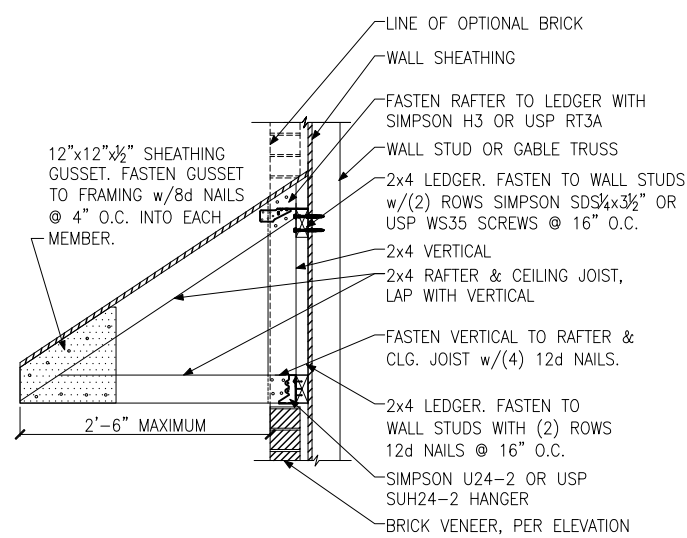
Pinecrest
120 M.P.H.
Raleigh, North Carolina

Project #: 172-19002
Designed By: JPS
Checked By:
Issue Date: 8/7/19
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Scale: 1/8"=1'-0" @ 11x17
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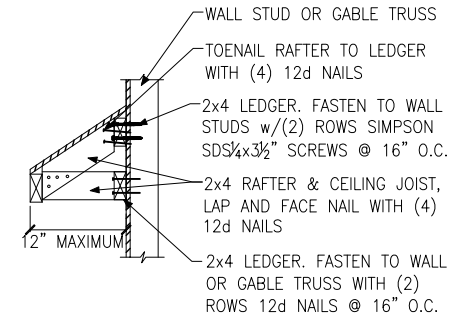
SD-5



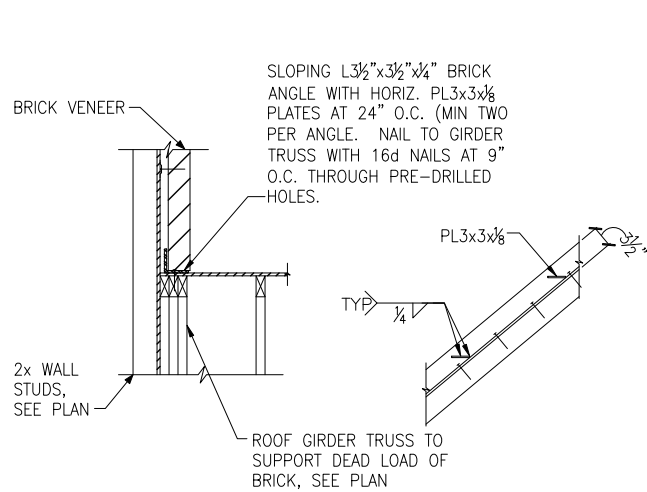
A PENT ROOF DETAIL
CURVED ROOF



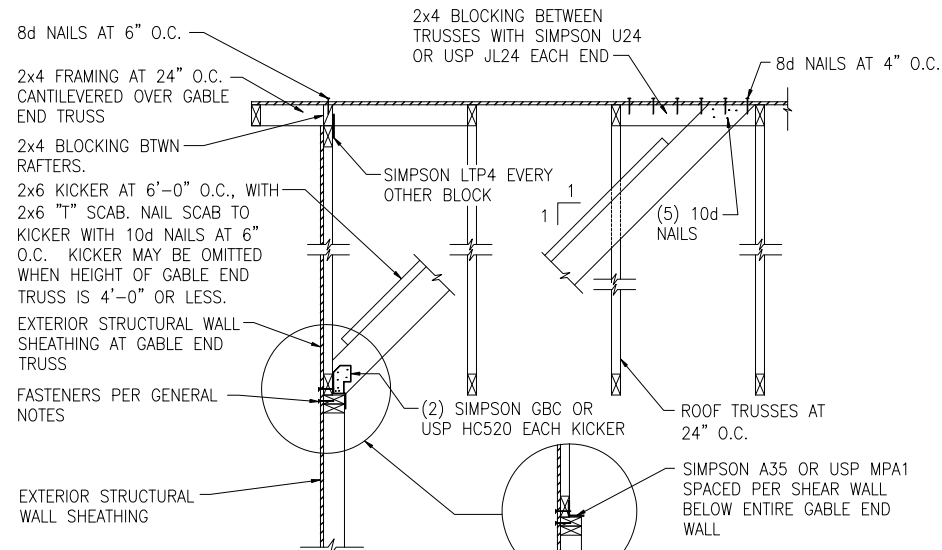
B PENT ROOF DETAIL
STRAIGHT ROOF



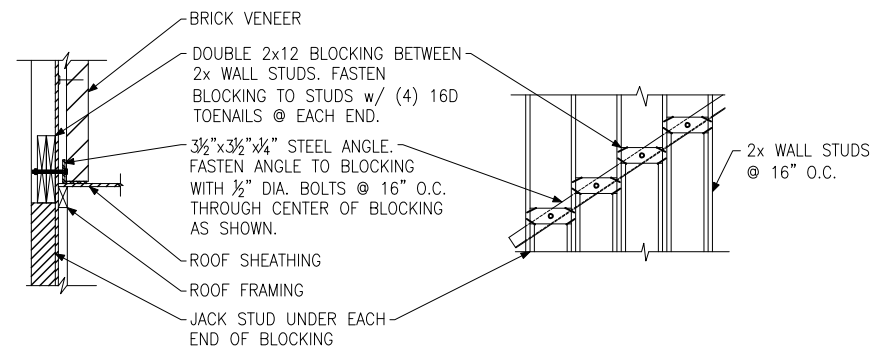
C EYEBROW ROOF DETAIL
STRAIGHT ROOF



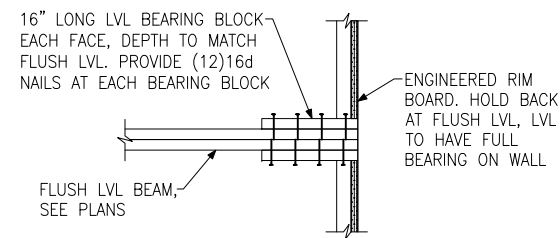
D TRUSS DETAIL



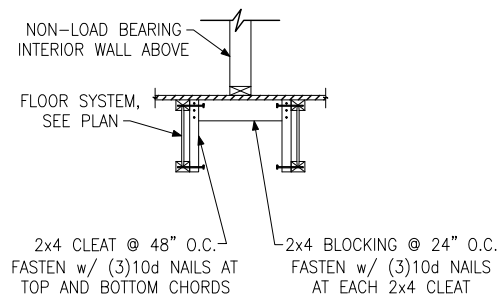
E GABLE END WALL DETAIL



F BRICK LEDGER CONNECTION DETAIL



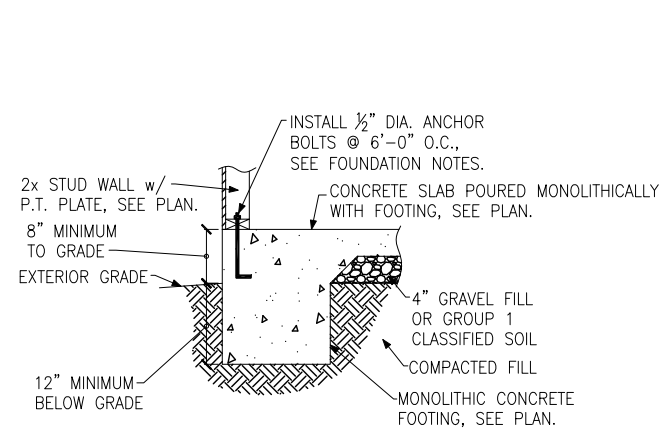
G BEARING ENHANCER
FLUSH LVL



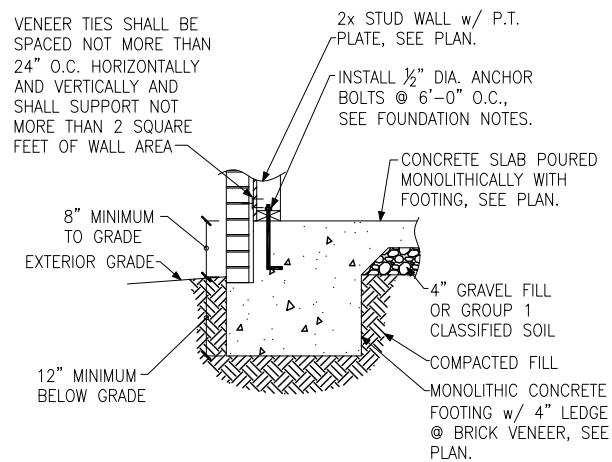
H I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS

WALL STUD SIZE, HEIGHT & SPACING SCHEDULE						
STUD SIZE	BEARING WALLS				NONBEARING WALLS	
	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY	MAXIMUM SPACING WHEN SUPPORTING TWO FLOORS, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING
2x4	10'-0"	24"	16"	-	14'-0"	24"
2x6	10'-0"	24"	24"	16"	20'-0"	24"

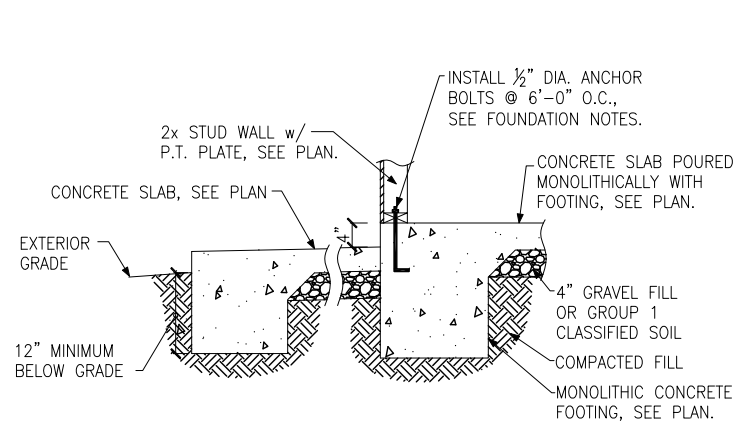




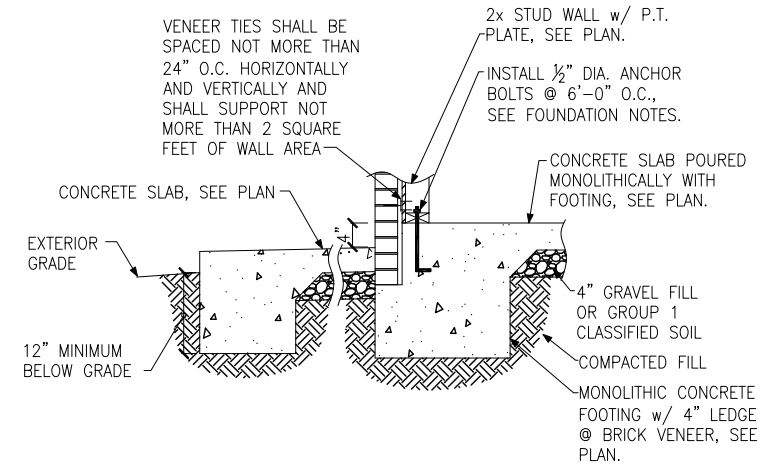
A FOUNDATION SECTION
EXTERIOR WALL



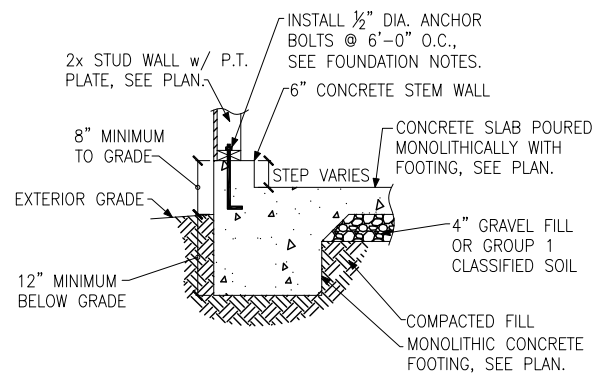
(B) FOUNDATION SECTION
EXTERIOR WALL @ BRICK VENEER



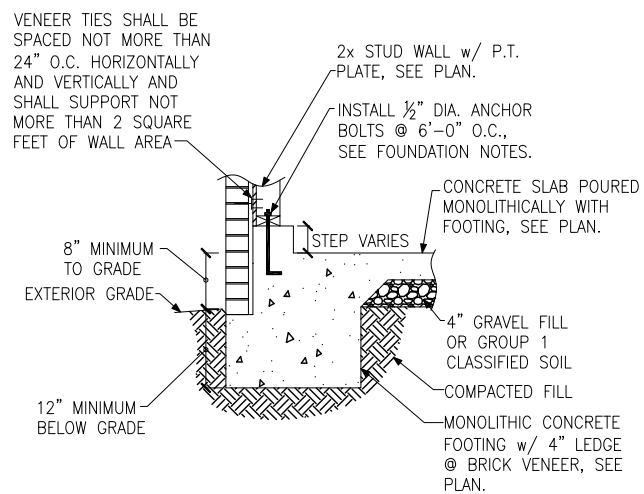
© FOUNDATION SECTION
EXTERIOR WALL AT PORCH



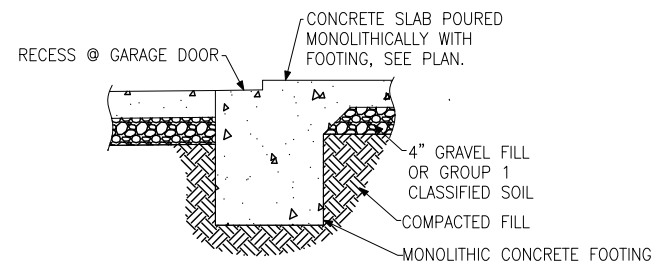
FOUNDATION SECTION
EXTERIOR WALL AT PORCH w/ BRICK VENEER



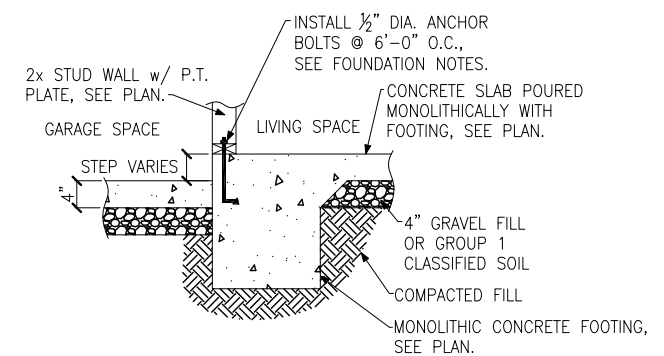
FOUNDATION SECTION
EXTERIOR GARAGE WALL



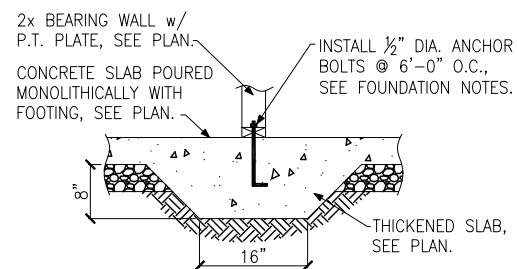
(F) FOUNDATION SECTION
EXTERIOR GARAGE WALL @ BRICK VENEER



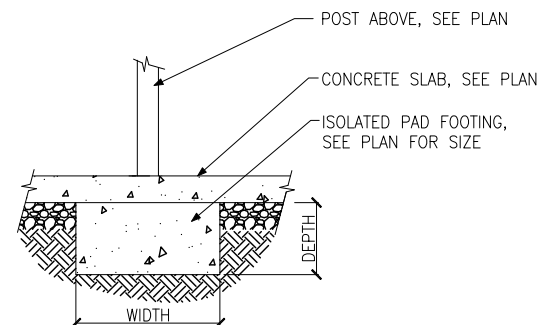
G GARAGE DOOR SECTION
GARAGE DOOR



(H) THICKENED SLAB
AT GARAGE



**J THICKENED SLAB SECTION
INTERIOR BEARING WALL**



ISOLATED PAD FOOTING
INTERIOR COLUMN



Monolithic Slab Foundation Details

Pinecrest
120 M.P.H.
Raleigh, North Carolina

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