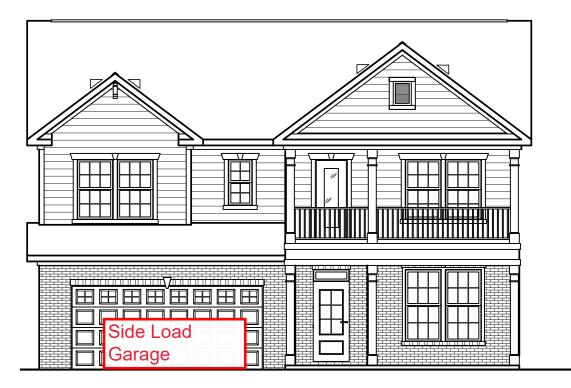
REVISION LOG

REVISION:001 DATE: 07/22/2022

- ADD STEM WALL SLAB FOUNDATION SHEETS
 ADD "STEM WALL" TO CRAWL ELEVATION TITLES AND NOTE "SEE FOUNDATION PAGES
 FOR FOUNDATION TYPE". UPDATE SHEET TITLES.

Lot 120 DC 20 Beacon Hill Lillington, NC 27546

NC.



SQUAREFOOTAGE										
		'GEORGIAN' ELEVATION								
		UNHEATED)	HEATED						
FIRST FLOOR		0		Г	1342	7				
SECOND FLOOR		0			1508					
FRONT PORCH		144			0					
BALCONY		117			0					
REAR PATIO/DECK		188			0					
2 CAR GARAGE		469			0					
SUBTOTALS		918		2850						
TOTAL UNDER ROOF			37	68						
-										
OI	PTI	ONS								
	UN	HEATED	S.F.	HE	EATED S	.F.				
POCKET OFFICE		+24			+132					
SMART DOOR		-30			+30					
SITTING ROOM		0			+152					
OPT. 3RD CAR GARAGE		+260			0					
COVERED PATIO/DECK		188			0					
EXTENDED COVERED PATIO/DECK		+137			0					

SQUARE FOOTAGE

PLAN 5 THE APEX - LH

'GEORGIAN'

heet No.	Sheet Description
0.0	Cover Sheet
1.1	Foundation (Slab)
1.1.1	Foundation Options (Slab)
1.1.2	Foundation Options (Slab)
1.2	Foundation (Crawl)
1.2.1	Foundation Options (Crawl)
1.2.2	Foundation Options (Crawl)
1.3	Foundation (Stem Wall Slab)
1.3.1	Foundation Options (Stem Wall Slab)
1.3.2	Foundation Options (Stem Wall Slab)
2.1	First Floor Plan
2.1.1	First Floor Plan Options
2.2	Second Floor Plan
2.2.1	Second Floor Plan Options
2.4	Covered Porch Plans & Elevations (Slab)
2.4.1	Covered Porch Plans & Elevations (Crawl/Stem Wall)
2.5	Extended Cafe Elevations & Roof Plan (Slab)
2.5.1	Extended Cafe Elevations & Roof Plan (Crawl)
2.6	2-Car Sideload Garage Plans
2.6.1	2-Car Sideload Garage Elevations
2.7	3-Car Garage Plans
2.7.1	3-Car Garage Elevations
3.1	Front & Rear Elevations (Slab)
3.1.1	Front & Rear Elevations (Crawl/Stem Wall)
3.2	Side Elevations (Slab)
3.2.1	Side Elevations (Crawl/Stem Wall)
3.3	Roof Plan
5.1	First Floor Electrical
5.1.1	First Floor Options Electrical
5.2	Second Floor Electrical
5.2.1	Second Floor Options Electrical

DESIGN CRITERIA:

THIS PLAN IS TO BE BUILT IN CONFORMANCE WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.

DATE								
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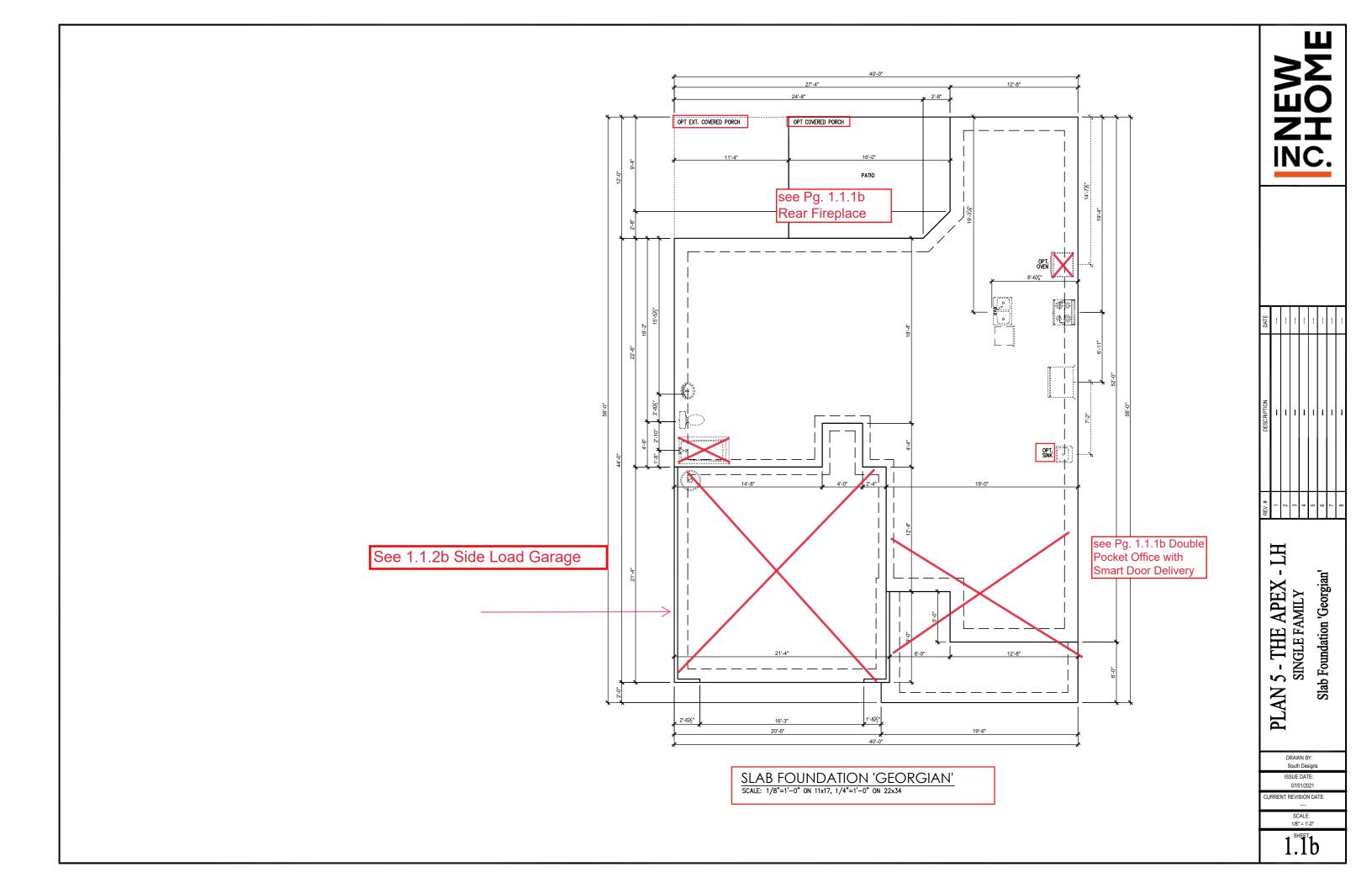
- LH PLAN 5 - THE APEX Cover Sheet 'Georgian'

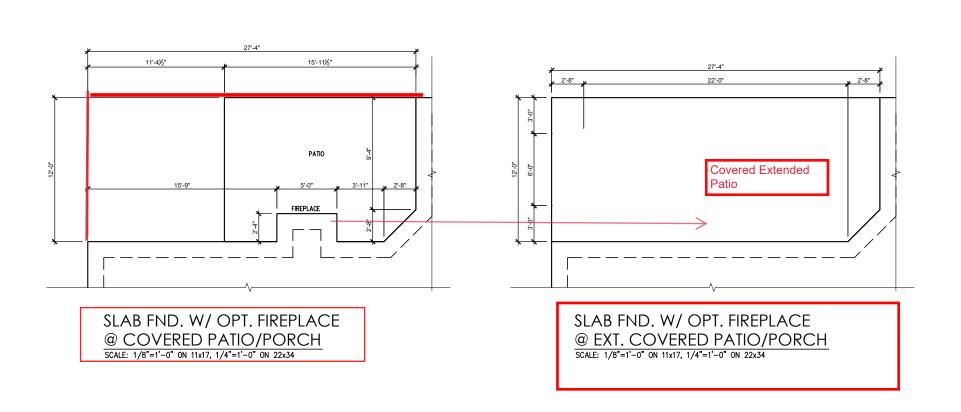
ISSUE DATE: 07/01/2021 JRRENT REVISION DATE

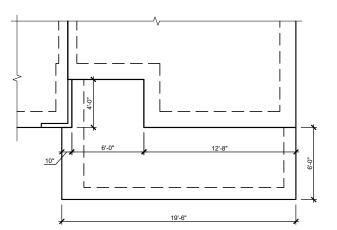
SCALE: 1/8" = 1'-0"

0.0b

REVISED -8-25-23 with extended Porch Revised 9-6-23 Side Entry Garage







SLAB FND. W/ SMART DELIVERY DR. W/ DBL POCK. OFFICE SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



DATE								
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PLAN 5 - THE APEX - LH SINGLE FAMILY Slab Foundation Options 'Georgian'

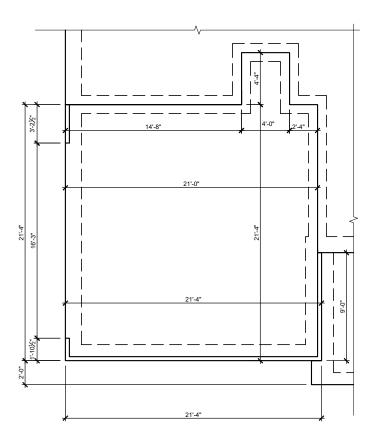
DRAWN BY: South Designs

ISSUE DATE: 07/01/2021

CURRENT REVISION DATE:

SCALE: 1/8" = 1'-0"

1. I 1 1



SLAB FND. W/ OPT. SIDE LOAD GARAGE SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

BWOHC.

DATE								
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PLAN 5 - THE APEX - LH SINGLE FAMILY Slab Foundation Options 'Georgian'

DRAWN BY: South Designs

ISSUE DATE: 07/01/2021

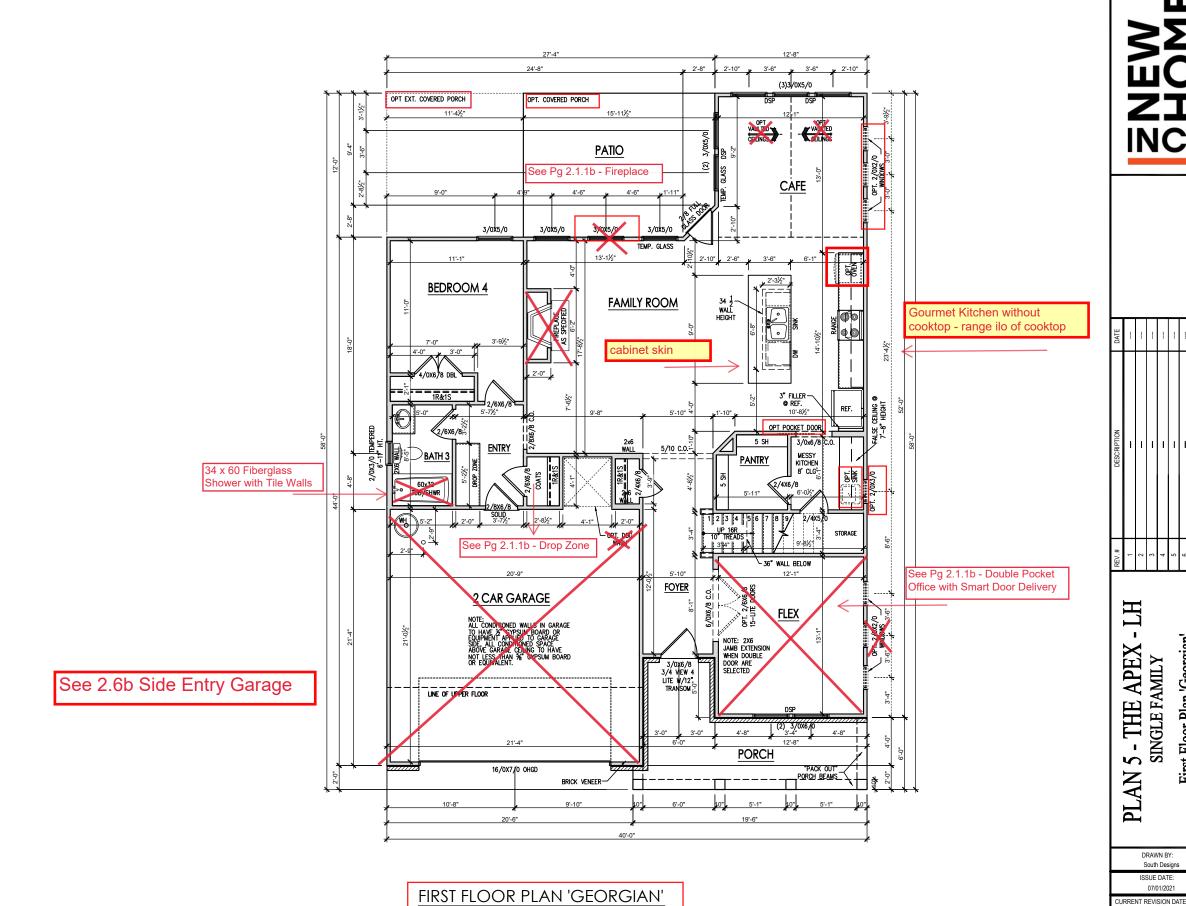
CURRENT REVISION DATE:

SCALE: 1/8" = 1'-0"

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

- Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures.
 Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each
- 5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- 7. Windows: Shall have at least (1) window in each willdows. Shall have a reast (1) will own leaden sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.
- 9. Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handralls at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
- 11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable
- 12.Garage Door to Living Space shall be 2'-8" x 6'-8"
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space



SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

First Floor Plan 'Georgian'

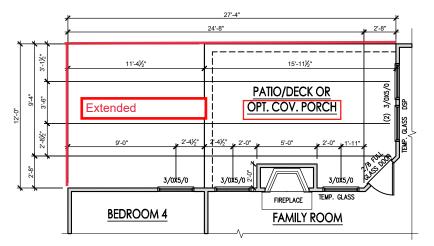
South Designs ISSUE DATE: 07/01/2021

> SCALE: 1/8" = 1'-0"

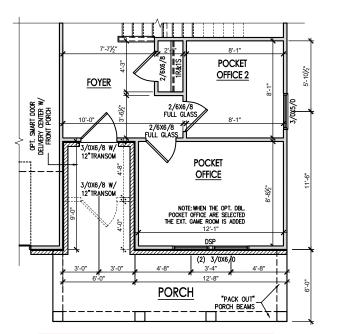
General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

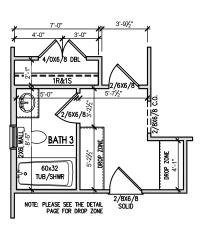
- Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures.
 Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- 3. Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
- 5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
- 11. Affic Access shall be provided at all affic area with a helpht greater than 30". Minimum clear affic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12.Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



OPT. FIREPLACE AT PATIO SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. DBL. POCKET OFFICE
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
(+51 S.F.)



OPT. DBL. DROP ZONE AT MUD RM
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



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PLAN 5 - THE APEX - SINGLE FAMILY
First Floor Plan Options

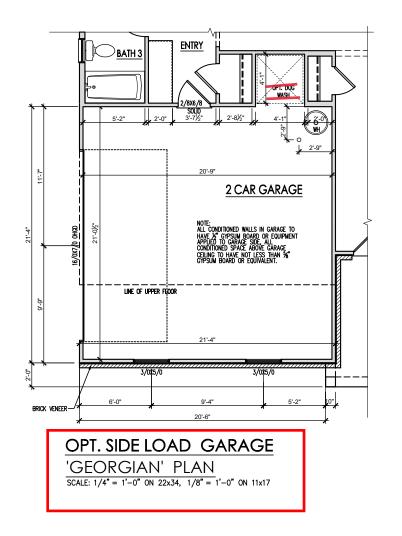
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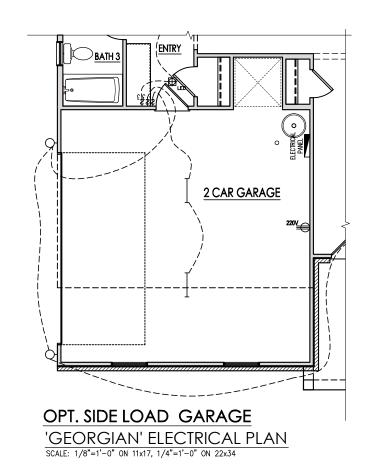
DRAWN BY: South Designs

ISSUE DATE: 07/01/2021

SCALE: 1/8" = 1'-0"

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PLAN 5 - THE APEX - LH SINGLE FAMILY 2-Car Sideload Garage 'Georgian'

DRAWN BY: South Design

ISSUE DATE: 07/01/2021

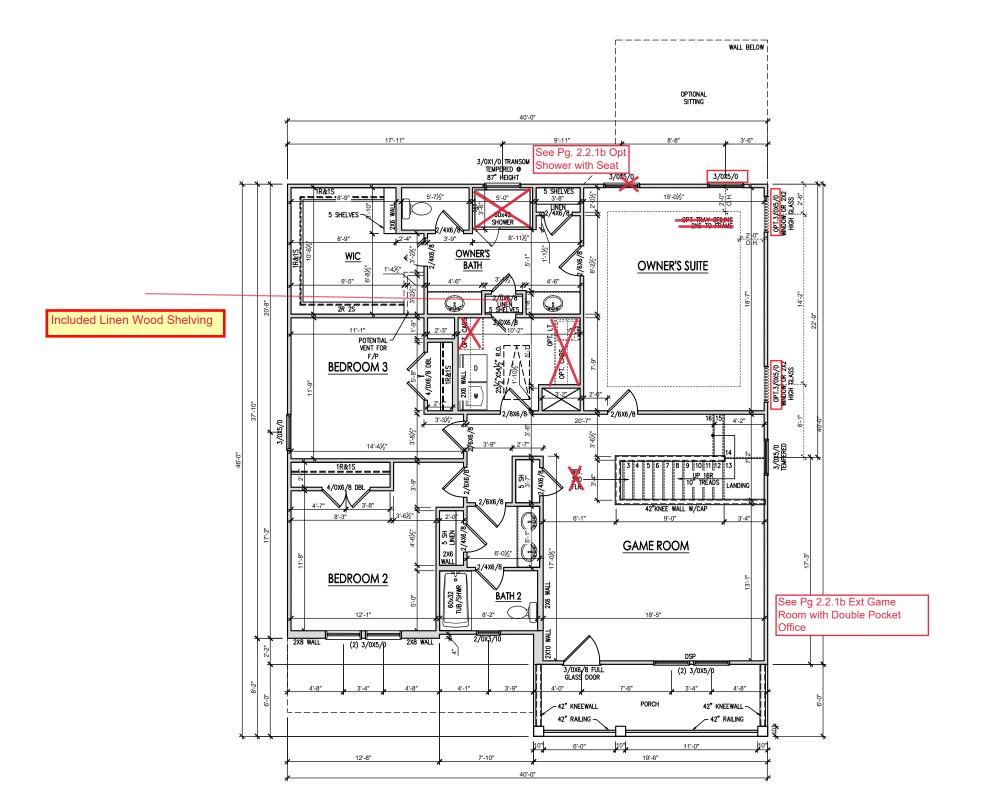
SCALE: 1/8" = 1'-0"

2.6b

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

- Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures.
 Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- 3. Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
- 5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pontries shall have 4 equal wood shelves, painted.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10.Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
- 11. Affic Access shall be provided at all affic area with a height greater than 30". Minimum clear affic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12.Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



SECOND FLOOR PLAN 'GEORGIAN'

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



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PLAN 5 - THE APEX - SINGLE FAMILY
Second Floor Plan 'Georgian'

DRAWN BY: South Designs

ISSUE DATE: 07/01/2021

SCALE: 1/8" = 1'-0"

2.2b

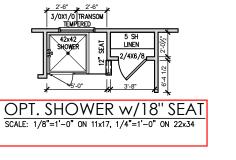
General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

- Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures.
 Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- 3. Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
- 5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
- 11. Affic Access shall be provided at all affic area with a height greater than 30". Minimum clear affic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



BWEW FOHC

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REV. # 1 2 3 3 4 4 5 5 6 6 7 7 8 8

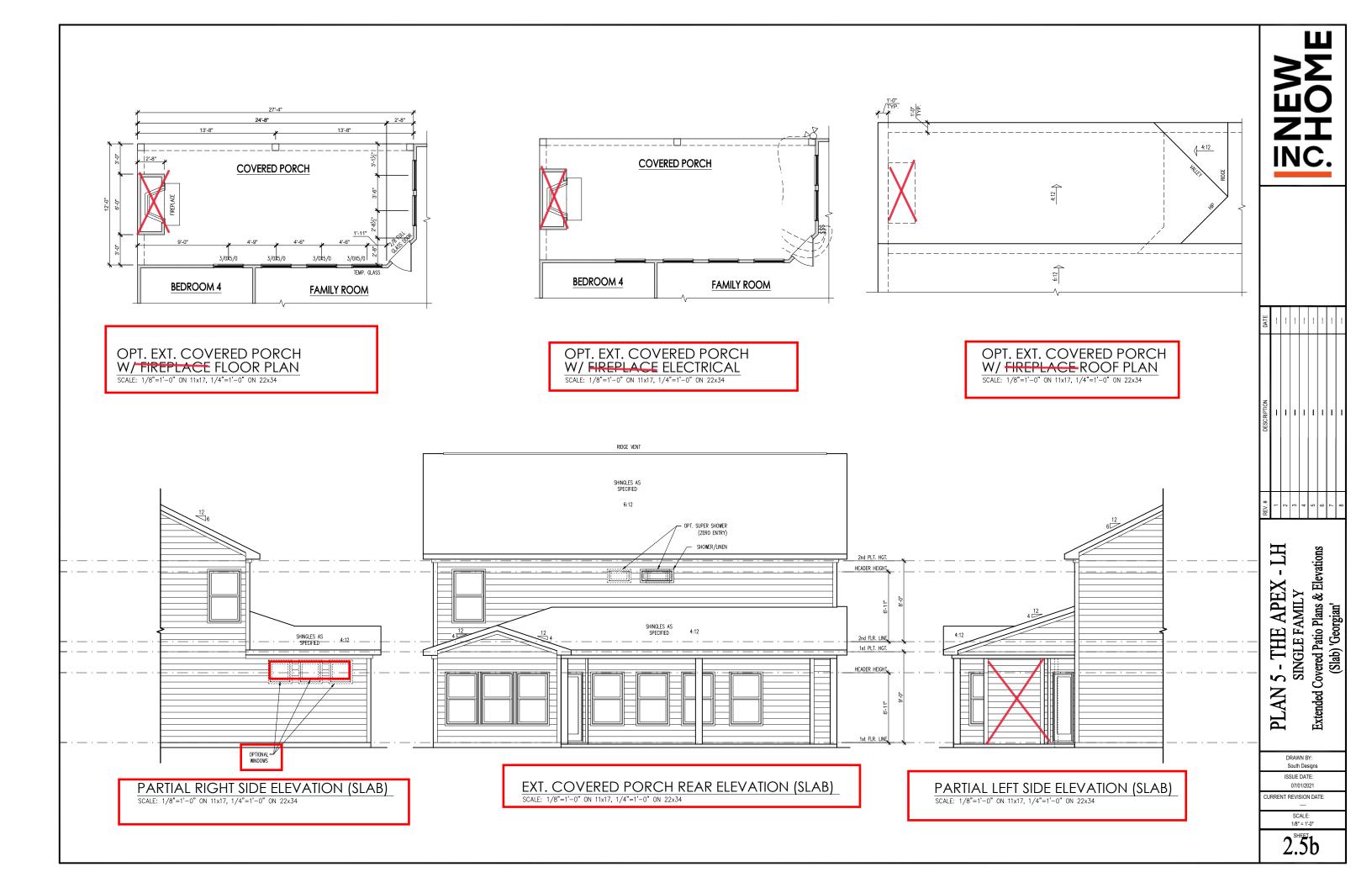
PLAN 5 - THE APEX - LH SINGLE FAMILY Second Floor Plan Options

> DRAWN BY: South Designs

ISSUE DATE: 07/01/2021

CURRENT REVISION DATE:
---SCALE:
1/8" = 1'-0"

2.2.1b



General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- 3. Soffit Vent shall be continuous soffit vent
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings.
- 8. Brick Veneer, if included on elevation shall be fled to wall surface with galvanized corrugated metal fles at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) fle. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Rashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2".

 Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to L/600.

Masonry Opening Lintel Schedule

Opening Size Angle

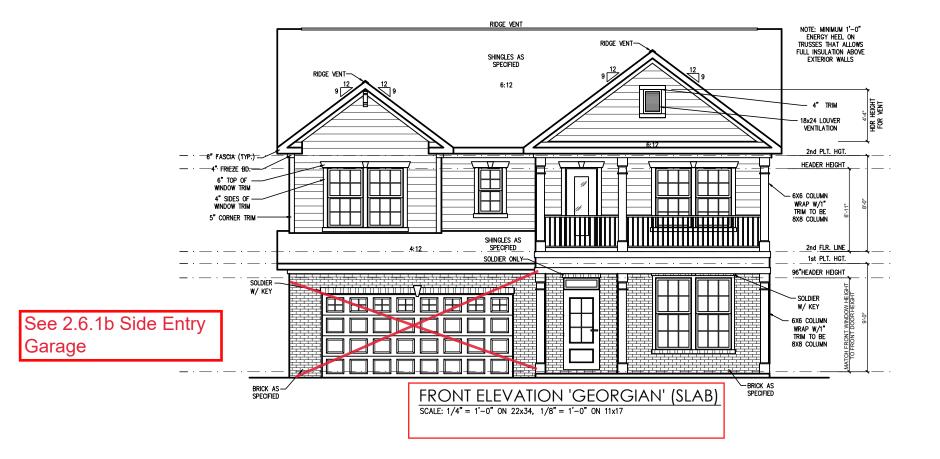
 up to 4'-0"
 3-1/2" x 3-1/2" x 5/16"

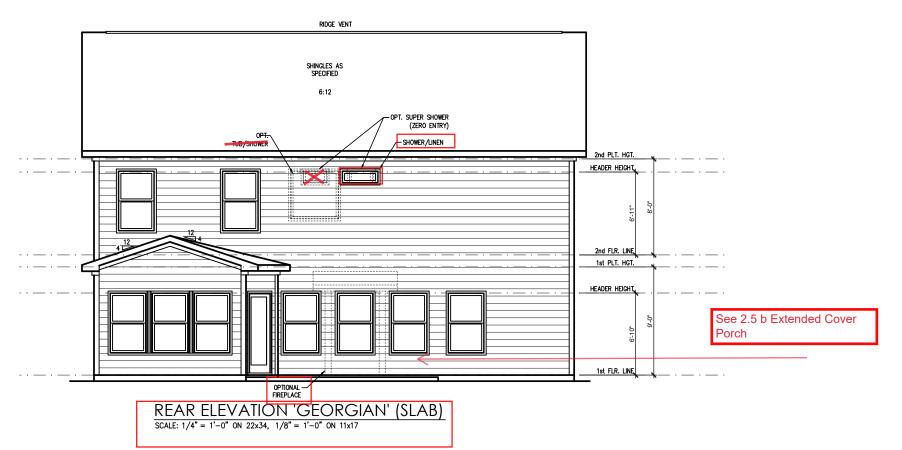
 4'-1" to 5'-6"
 4" x 3-1/2" x 5/16" LLV

 5'-7" to 6'-6"
 5" x 3-1/2" x 5/16" LLV

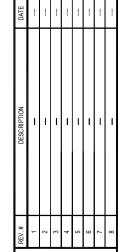
 8'-5" to 8'-4"
 6" x 3-1/2" x 5/16" LLV

 8'-5" to 16'-4"
 7" x 4" x 3/8" LLV









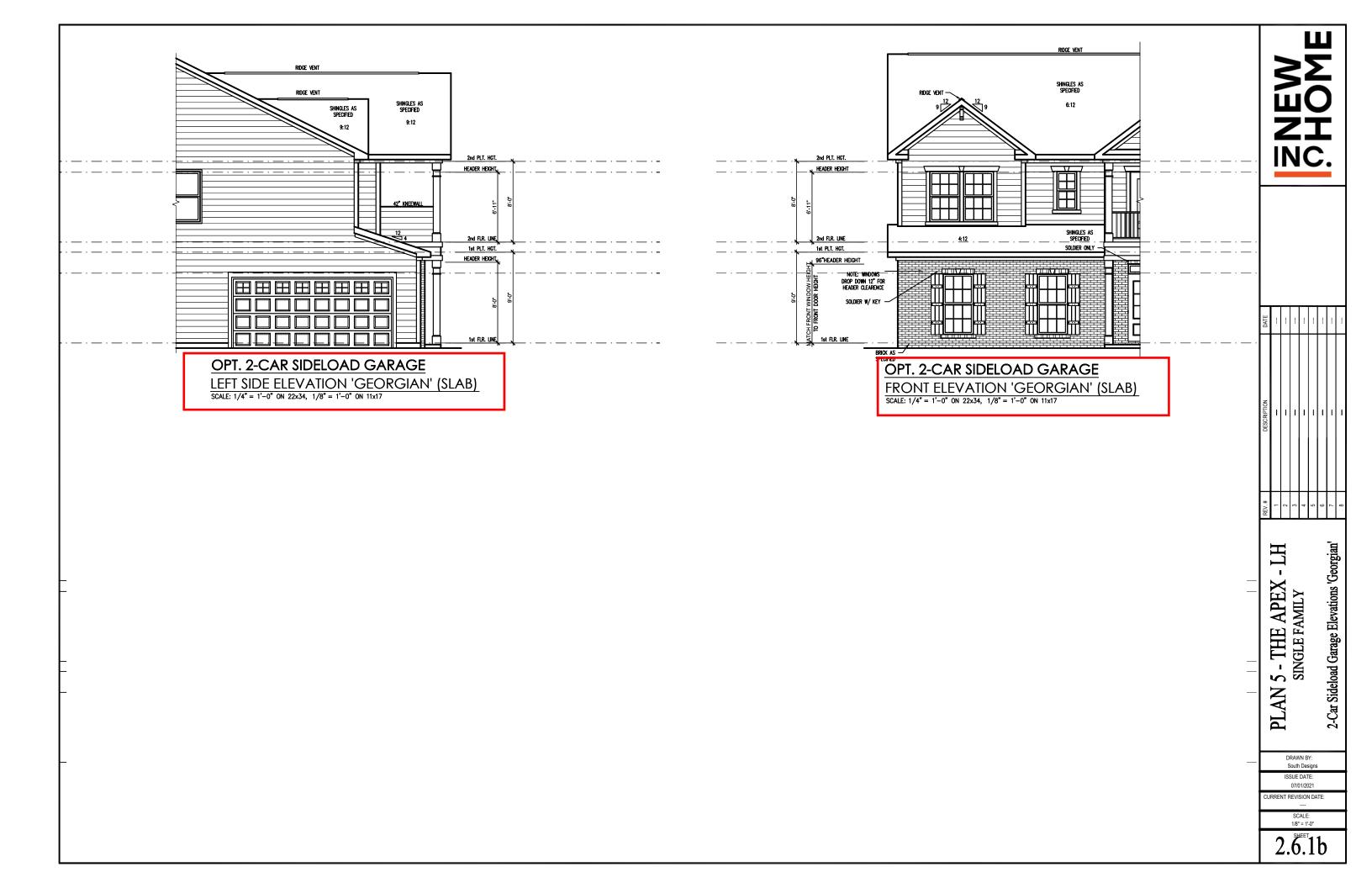
PLAN 5 - THE APEX - LH SINGLE FAMILY Front & Rear Elevations (Slab) 'Georgian'

> DRAWN BY: South Designs ISSUE DATE:

ISSUE DATE: 07/01/2021 URRENT REVISION DATE:

> SCALE: 1/8" = 1'-0"

3.1b



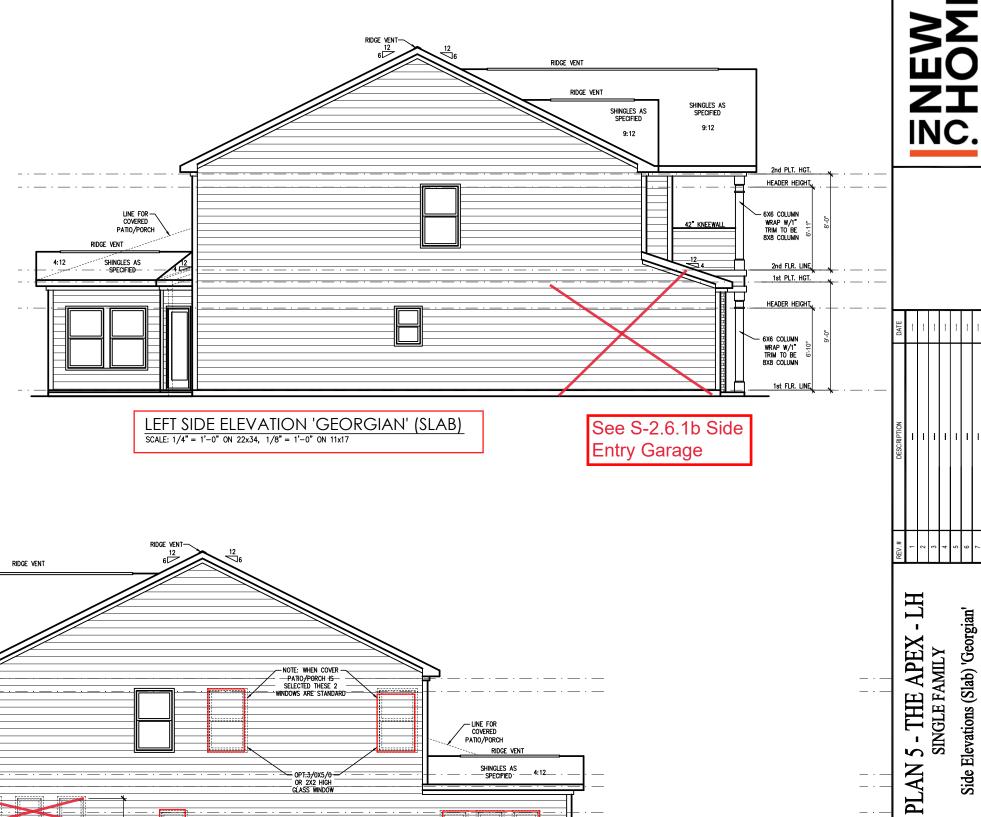
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- 3. Soffit Vent shall be continuous soffit vent
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Raillings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings.
- 8. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.673 of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2".
 Weepholes shall be provided at a rate of 48" oc and shall not be less than 316" in diameter and shall be located immediately above flashing.
- 9. Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to L/600.

Masonry Opening Lintel Schedule

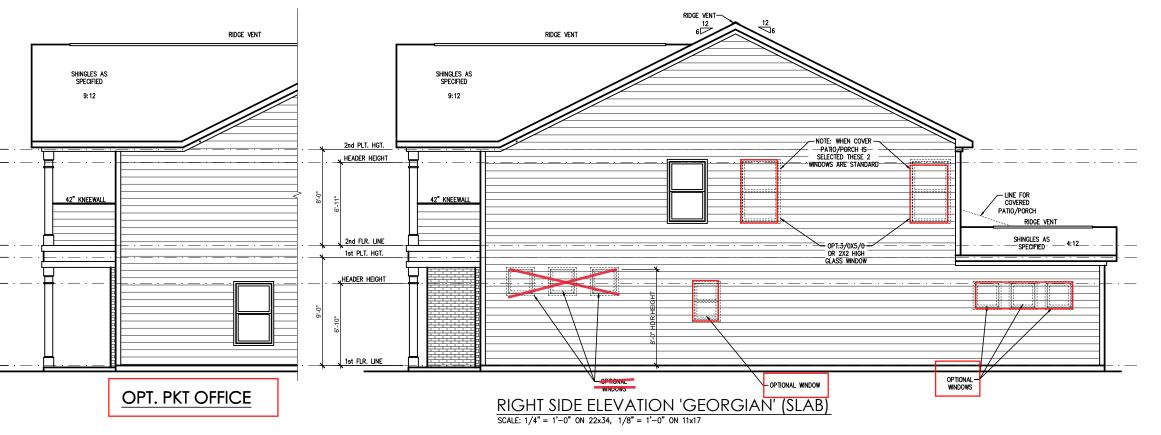
Opening	Size	Angle				
up to 4'-0)"	3-1/2" x 3-1/2" x 5/16"				
4'-1" to	5'-6"	4" x 3-1/2" x 5/16" LLV				
5'-7" to	6'-6"	5" x 3-1/2" x 5/16" LLV				
6'-7" to	8'-4"	6" x 3-1/2" x 5/16" LLV				
8'-5" to	16'-4"	7" x 4" x 3/8" LLV				

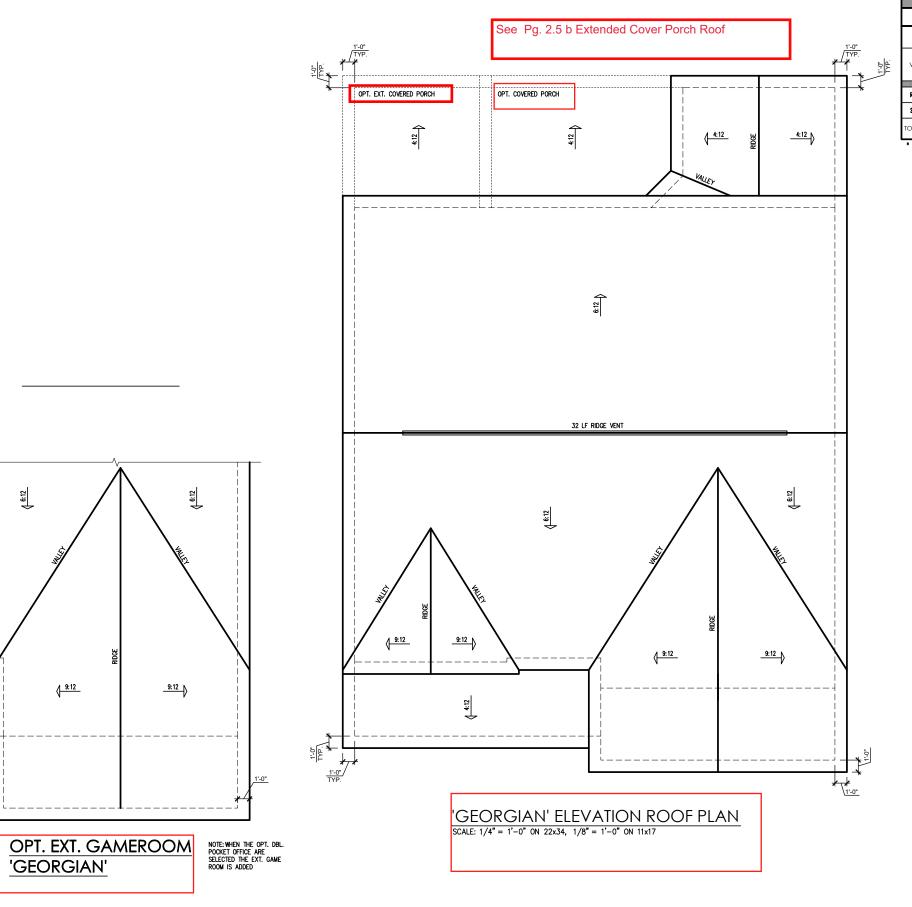


South Designs ISSUE DATE: 07/01/2021

> SCALE: 1/8" = 1'-0"

CURRENT REVISION DATE





					TTIC '	VENT S	CHEDU	LE					
	'GEORGIAN' ELEVATION												
	MAIN HOUSE			SQ FTG	1553	AT	/ NEAR RID	AT / NEAR EAVE					
TYP.	VENT TYPE REC			SQ. FT.		POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PERLE)			
.JE		RAN		SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625			
	RIDGE VENT	2.07	2.59	4.00	44.44	0	0	32.00					
	SOFFIT VENTS	3.11	2.59	5.00	55.56				0	80.00			
	TOTAL (MIN)	5.18	5.18	9.00	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILA							

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

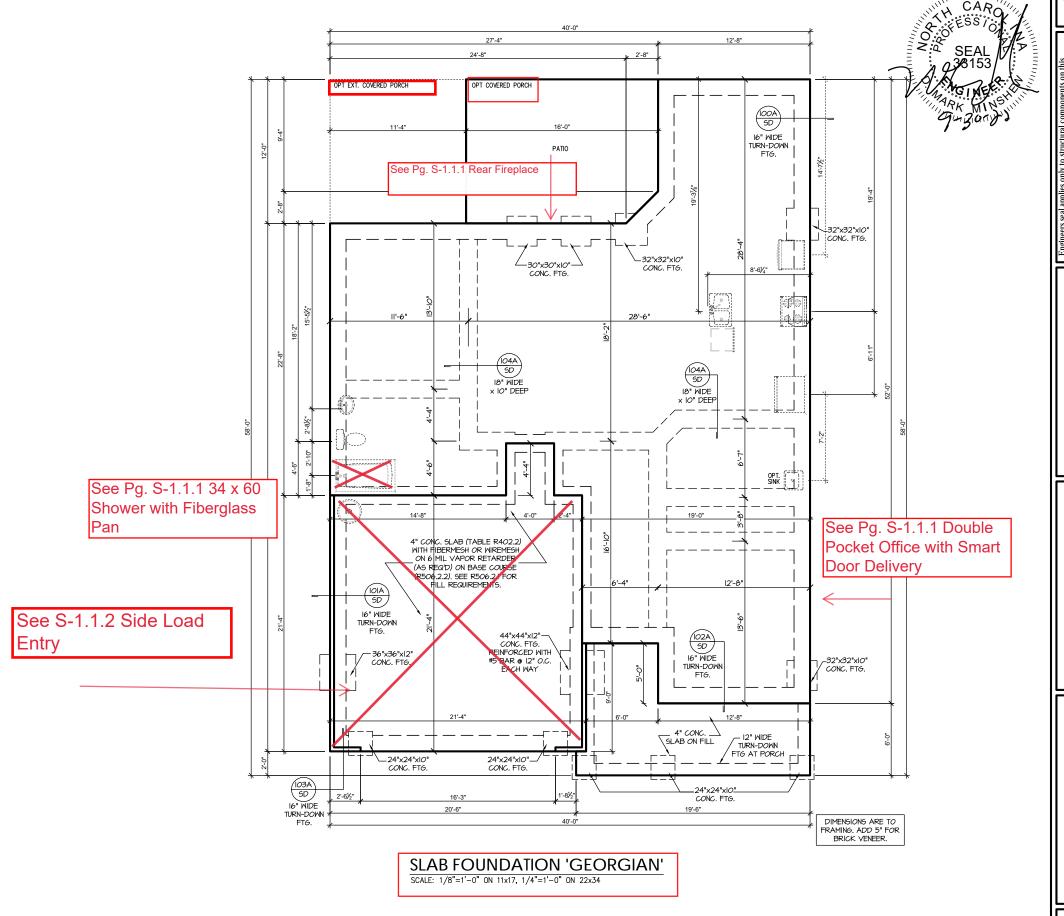
PLAN 5 - THE APEX - LH SINGLE FAMILY Roof Plan 'Georgian'

DRAWN BY: South Design ISSUE DATE:

ISSUE DATE: 07/01/2021 CURRENT REVISION DATE:

> SCALE: 1/8" = 1'-0"

3.3b



PROJECT # 21-2780-LH

en to include construction means, methods, techniques, es not include construction means, methods, techniques, viations or discrepancies on plans are to be brought to the alteration of Southern Engineers. Failure to do so will

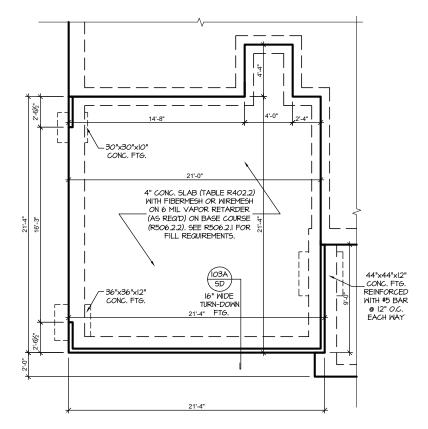
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NEW HOME, INC.

Plan 05 - The Apex Garage Left

S-1.1





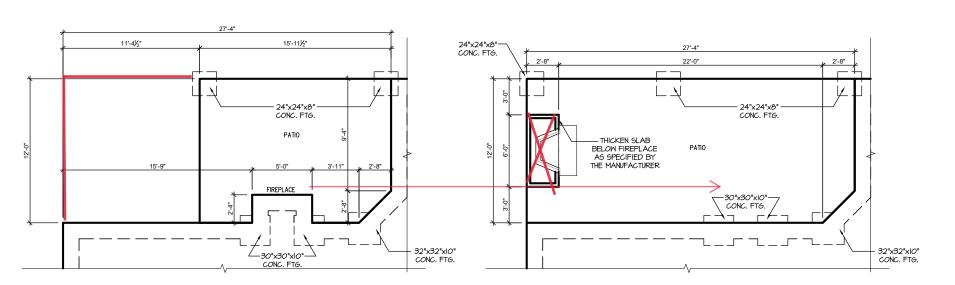
DIMENSIONS ARE TO FRAMING. ADD 5" FOR BRICK VENEER.

SLAB FND. W/ OPT. SIDE LOAD GARAGE
SCALE: 1/8"=1"-0" ON 11x17, 1/4"=1"-0" ON 22x34

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SLAB FND. W/ OPT. FIREPLACE

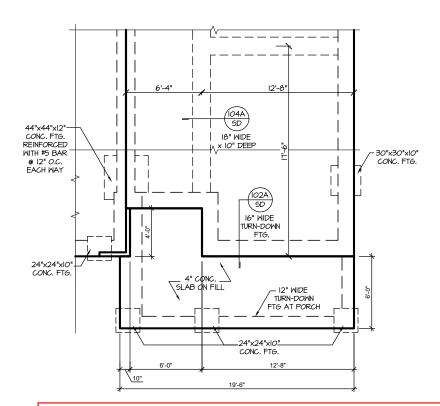
@ COVERED PATIO/PORCH

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SLAB FND. W/ OPT. FIREPLACE @ EXT. COVERED PATIO/PORCH

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

DIMENSIONS ARE TO FRAMING. ADD 5" FOR BRICK VENEER.



SLAB FND. W/ SMART DELIVERY DR. W/ DBL POCK. OFFICE SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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PROJECT # 21-2780-LH

NEW HOME, INC.

Plan 05 - The Apex Garage Left

S-1.1.

HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602 3/5) OR AS BELOW PER NODOL COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
- UP TO 3' SPAN: (I) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 9' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS
- OVER 12' UP TO 15' SPAN: (5) KING STUDS

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): Wind: 115-120 mph

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS, ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

- PORCH POST NOTES:

 4"x4" (6"x6") TRT'D POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- POST CAP: SIMPSON AC4-MAX (AC6-MAX)
- POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (I) SIMPSON H6.
- 3. POST BASE: SIMPSON ABU44 (ABU66). MONO: %" ANCHOR (EMBED 7")
- CMU: %" ANCHOR (EXTEND TO FOOTING HIGH WIND
- POST BASE: WOOD FOUNDATION: (2) SIMPSON CSI6 STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

MOOD I-JOISTS

- (SHALL BE ONE OF THE FOLLOWING OR EQUAL):

 TJI 210 BY TRUS JOIST
- LPI 20 PLUS BY LP
- BCI 5000s I.8 BY BC

HEAVY WOOD I-JOISTS

- (SHALL BE ONE OF THE FOLLOWING OR EQUAL):
- TJI 360 BY TRUS JOIST
- BCI 60s 2.0 BY BC
- ALL WOOD I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.
- FLOOR TRUSSES BY MANUFACTURER MAY BE SUBSTITUTED FOR ANY I-JOISTS.

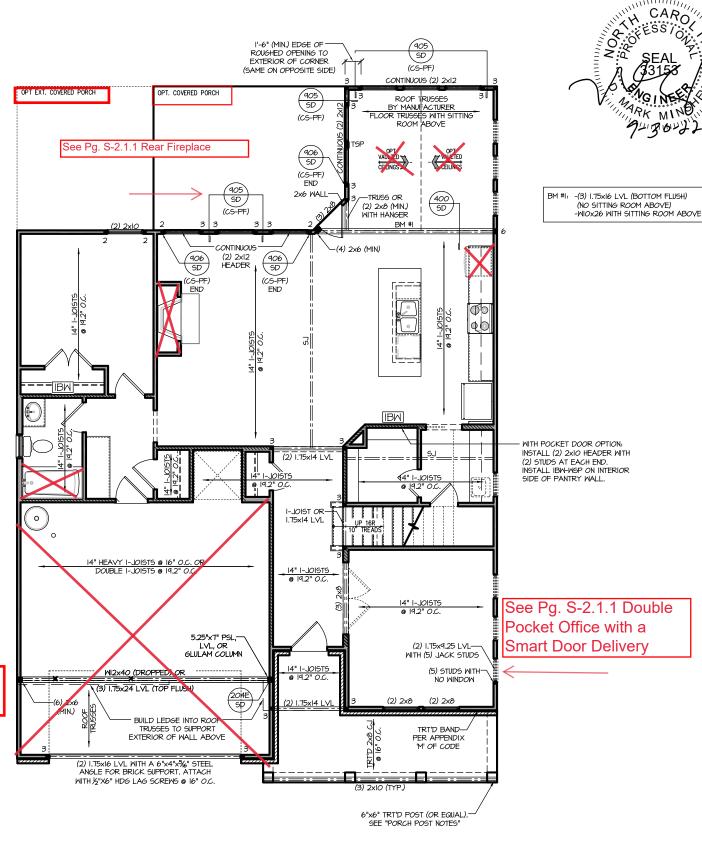
FRAMING NOTES

NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602 IO OF THE CODE, SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING
 WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (MSP) (EXPOSURE B: 7/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
- **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR FOULV)
- **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W (7) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/6" WSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER MSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

See Pg. S-2.1.1 34 x 60 Shower with Fiberglass Pan

See S-2.1.2 Side Entry Garage

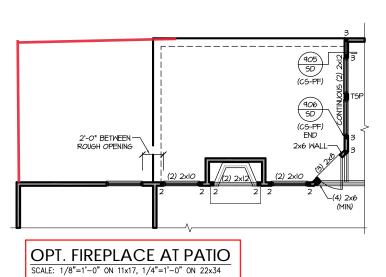


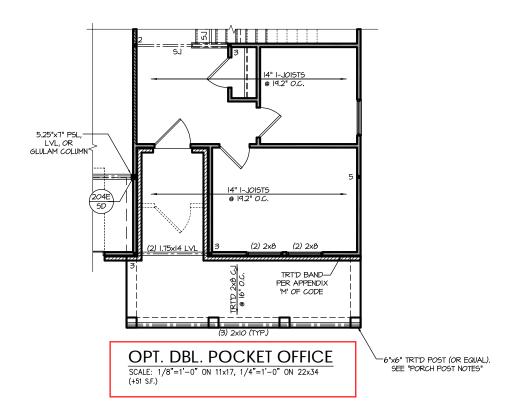
FIRST FLOOR PLAN 'GEORGIAN' SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

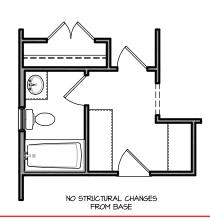
PROJECT # 21-2780-LH

one year from date of seal. oval of terms & conditions

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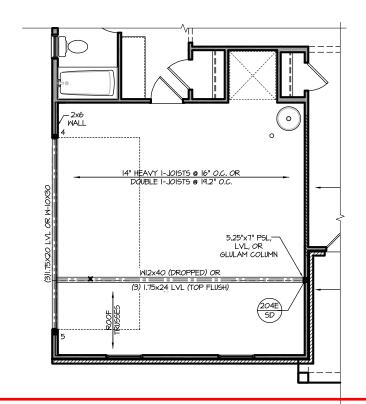


OPT. DBL. DROP ZONE AT MUD RM SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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NEW HOME, INC.



OPT. SIDE LOAD GARAGE 'GEORGIAN' PLAN SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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PROJECT # 21-2780-LH

NEW HOME, INC.

HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
- UP TO 3' SPAN: (I) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 9' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): Wind: 115-120 mph

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS, ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

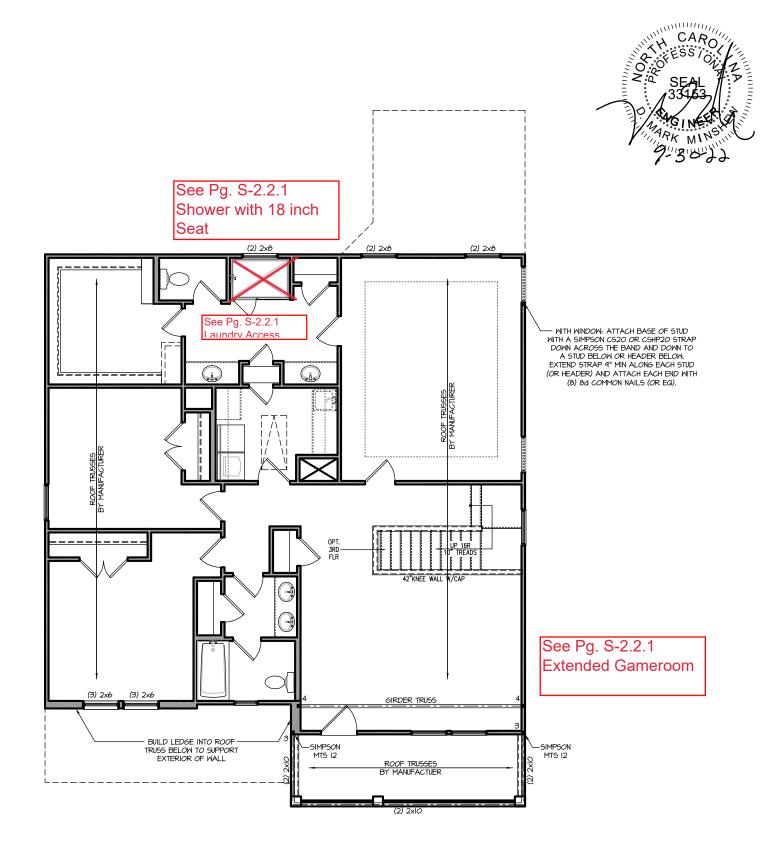
- PORCH POST NOTES:

 4"x4" (6"x6") TRT'D POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- POST CAP: SIMPSON AC4-MAX (AC6-MAX)
 POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER
 HEADER AT CORNER). HIGH WIND; ADD (I) SIMPSON H6.
- 3. <u>POST BASE</u>: SIMPSON ABU44 (ABU66). 3.I. <u>MONO</u>: 5" ANCHOR (EMBED 7")
- CMU: %" ANCHOR (EXTEND TO FOOTING HIGH WIND
- POST BASE: WOOD FOUNDATION: (2) SIMPSON CSIG STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

FRAMING NOTES

NC (2018 NCRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE, SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING
 WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (MSP) (EXPOSURE B: 7/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE, BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. MSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE MSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
- **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR FOULV)
- **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "IBM" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS INIERICA DRACED MALL-MOOD STRUCTURAL PANELL: (NOTE) AS "IBM-MGP" ON PLANS). ATTACH ONE SIDE MITH "&" MGP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER MSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



SECOND FLOOR PLAN 'GEORGIAN'

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

PROJECT # 21-2780-LH

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P.A. 27609

Engineers, Drive, Raleigh, NC ?

Southern Engi 3716 Benson Drive, Ra Phone: (919) 8

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Plan



OPT. LAUNDRY ACCESS
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

∕-(2) 1.75x5 LVL ROOF TRUSSES BY MANUFACTURER GIRDER TRUSS -SIMPSON MTS 12 -SIMPSON MTS 12 (APPLIES ONLY WITH "OPT. DOUBLE POCKET OFFICE" BELOW)

OPT. SHOWER w/18" SEAT SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

OPT. EXT. GAME ROOM

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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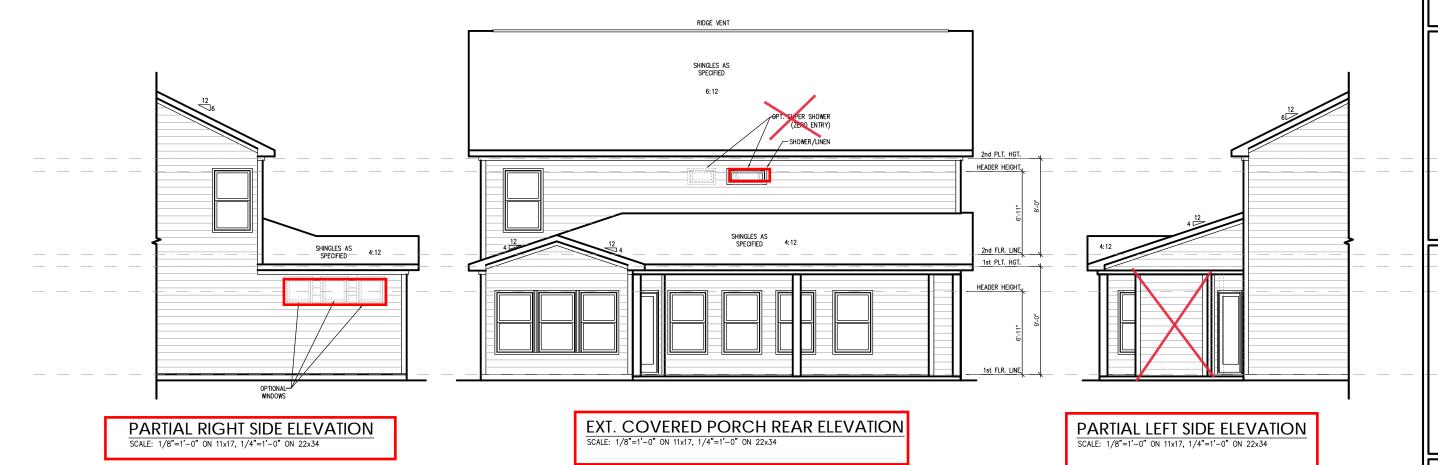
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6"x6" TRT'D POST (OR EQUAL).— SEE "PORCH POST NOTES" 905 SD (CS-PF) (CS-PF) END 905 SD (CS-PF) 2x6 WALL —TRUSS OR (2) 2x8 (MIN.) WITH HANGER CONTINUOUS -(2) 2×12 HEADER 906 SD (OS-PF) END 906 SD

4:12 ROOF TRUSSES IY MANUFACTURER

OPT. EXT. COVERED PORCH W/FIREPLACE FLOOR PLAN SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

OPT. EXT. COVERED PORCH W/ FIREPLACE ROOF PLAN SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



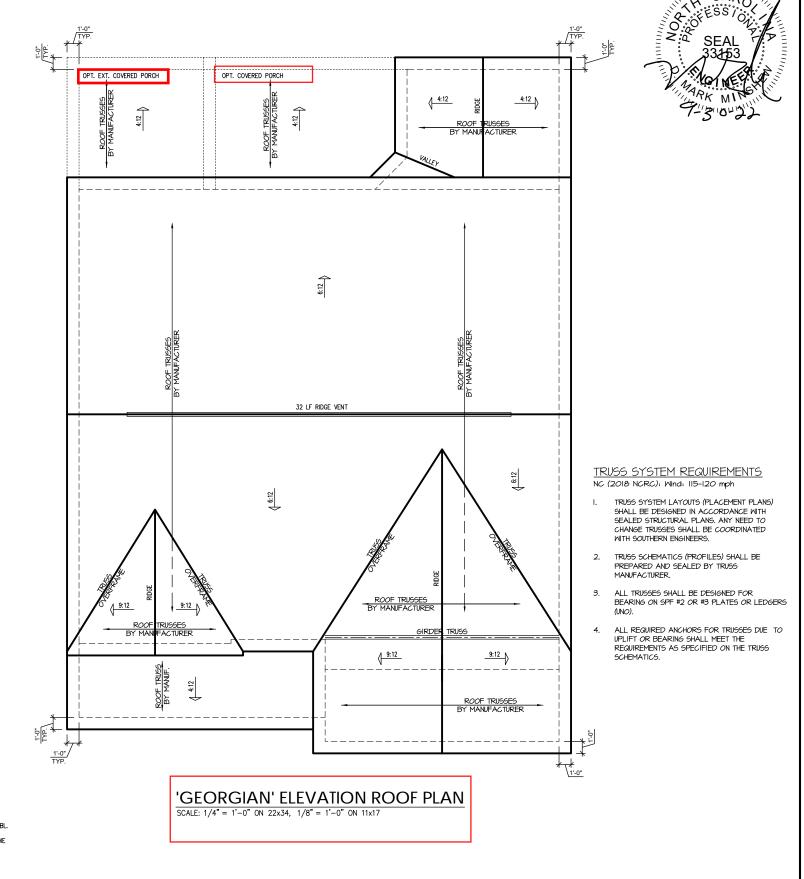
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NEW HOME, INC.

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6:12 ROOF TRUSSES
BY MANUFACTURER 9:12 9:12

> OPT. EXT. GAMEROOM 'GEORGIAN'

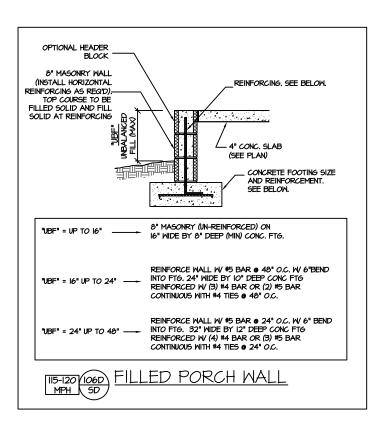
NOTE: WHEN THE OPT. DBL. POCKET OFFICE ARE SELECTED THE EXT. GAME ROOM IS ADDED

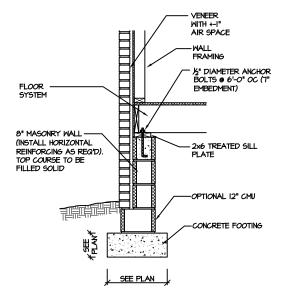
PROJECT # 21-2780-LH

P.A. 27609

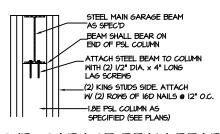
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NEW HOME,

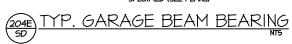


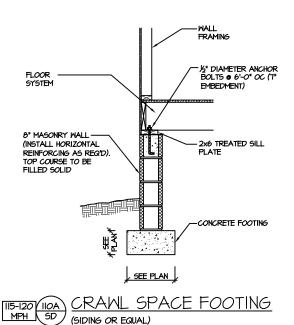


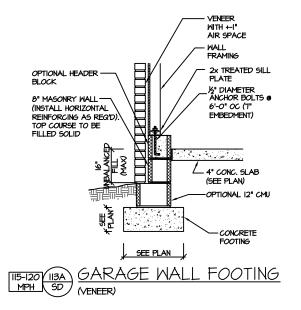
MPH SD (VENEER)

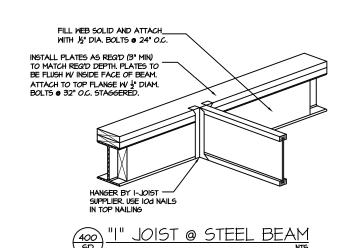


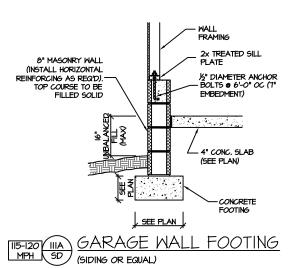
SPACE FOOTING



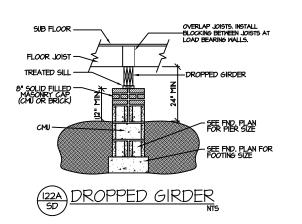


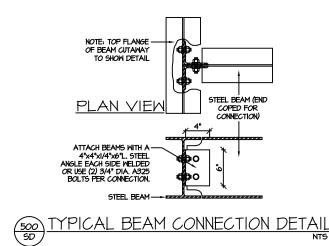












STRUCTURAL DETAILS: CRAWL SPACE FOUNDATION 21-2780

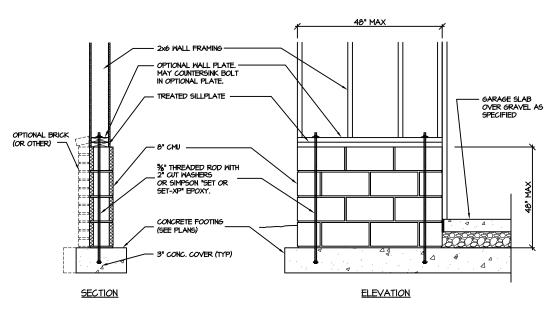
PROJECT #

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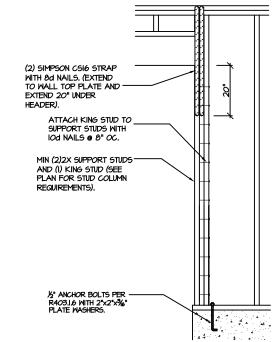
NEW HOME,

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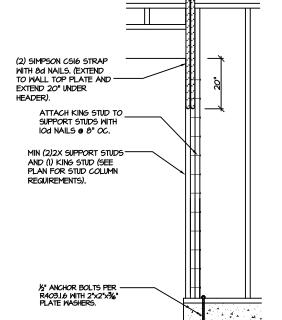
SD







CS-PF: END CONDITION DETAIL (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION



CS-PF - OVER WOOD FLOOR

NOTE: AT INTERMEDIATE WALL

MIN, 3"XII.25" HEADER, SEE PLAN FOR ACTUAL SIZE, EXTEND - OVER PANEL.

FASTEN SHEATHING TO HEADER W 8d COMMON NAILS IN 3" GRID

FRAMING (STUDS, BLOCKING, AND

PANEL EDGES SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID-HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING

NAILING IS REQ'D (3" OC). ATTACH BLOCKING TOGETHER W

FOOTING / FOUNDATION (SEE

PATTERN AND 3" OC. IN ALL

SILLS) TYP.

(3) I6d SINKERS.

2' TO 18'

MIN 1/6" THICK WOOD STRUCTURAL PANEL

TREATED SILLPLATE

SHEATHING

EXTERIOR VIEW

-8d NAILS @ 3" OC TOP

-EXTEND SHEATHING TO

SILL PLATE (DO NOT

SPLICE)

MSP OVERLAP OPTION

SEGMENTS BETWEEN OPENINGS. THE

STRAPS SHALL BE INSTALLED AT

(2) SIMPSON CSI6 STRAP

WITH 8d NAILS, (EXTEND

MIN (2)2X WALL FRAMING.

COLUMN REQUIREMENTS.

SEE PLAN FOR STUD

TREATED SILLPLATE

15" ANCHOR BOLTS PE

R403.1.6 WITH 2"x2"x36" PLATE WASHERS.

NOTE: FOR CMU APPLICATIONS AT GARAGE DOORS, ANCHOR BOLTS SHAL

BE %" DIAMETER AND SHALL EXTEND TO FOOTING (PER NORC FIGURE

R602.IO.4.3 (SEE GARAGE "WING WALL DETAIL ON STRUCTURAL PLANS)

EXTEND 20" UNDER

(2) ROWS OF 16d

NAILS @ 3" OC

HEADER).

CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION

SIMPSON LTP4 FRAMING

INTERIOR VIEW

FRAMING ANCHOR OPTION

STRUCTURAL DETAILS: CRAWL SPACE FOUNDATION

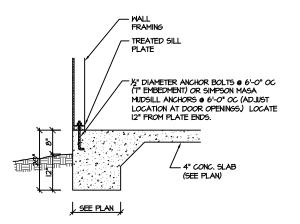
STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING KOOF RAFTERS, HIPS, VALLEYS, RIDGES, HLOORS, WALLS, BEAMG AND HEADERS, COLLMIS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE ROYIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL

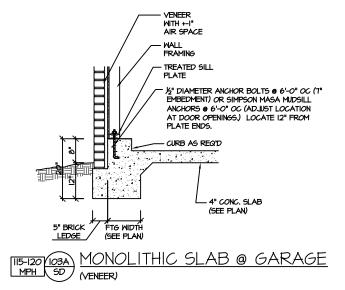
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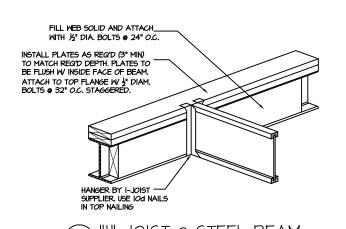
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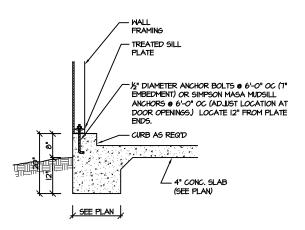
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NO RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, techniques, seguences or procedures, or for safety precautions and programs in CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT.
 ALL MEMBERS SHALL BE FRANED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3. DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, IO PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
- STAIRS: (40 PSF, IO PSF, L/360) EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360)
- DECKS: (40 PSF, IO PSF, L/360)
- GUARDRAILS AND HANDRAILS: (200 LBS) PASSSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
- FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS, SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 4022, ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS, ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE 1/4" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).
- ALLOMABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp)
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 P5I, Fv=285 P5I, E=I.4xI0 P5I.
 J. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 P5I, Fv=240 P5I, E=2.0xI0 P5I.
 L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 P5I, Fv=400 P5I, E=I.55xI0 P5I.
 INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS, TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36, STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANSE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x/4" STEEL ANGLE FOR UP TO 6'-0' SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9"-0". SEE PLANS FOR SPANS OVER 9"-0". SEE ALSO SECTION R703.0.3 LINTELS.



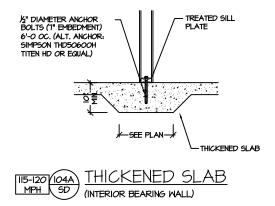


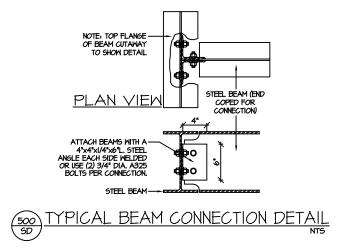


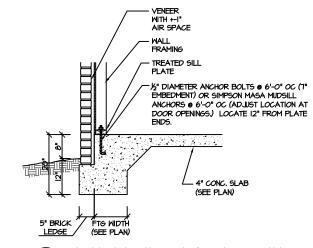




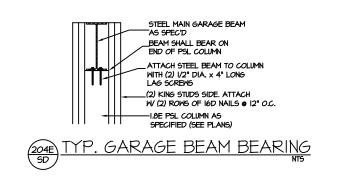
MONOLITHIC SLAB @ GARAGE (SIDING OR EQUAL)







MONOLITHIC SLAB FOOTING (VENEER)



PROJECT #

21-2780

P.A. 27609

Southern Engineers, P 3716 Benson Drive, Raleigh, NC 27 Phone: (919) 878-1617 License: C-4772

NEW HOME, 05

Plan Apex The

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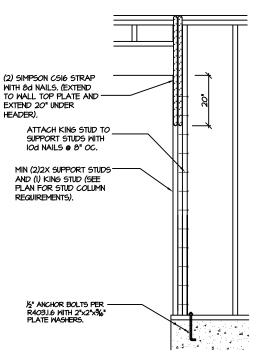
STRUCTURAL DETAILS: MONO SLAB FOUNDATION

OS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
DETAIL AND APPLICATION BASED ON NORCE FIGURE
R602.10.1 - PORTAL FRAME CONSTRUCTION

CS-PF - OVER WOOD FLOOR

MSP OVERLAP OPTION

FRAMING ANCHOR OPTION



(FOR USE WITH SINGLE CS-PF CONDITION)
DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



STRUCTURAL NOTES

NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIER ♣ GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS, THE STRUCTURAL BISINEER IS NOT RESPONSIBLE FOR, AND MILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROCRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE BISINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION NORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH 600D CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3. DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, IO PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360
- ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
 STAIPS: (40 PSF to PSF L/360)
- STAIRS: (40 PSF, IO PSF, L/360)
 EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360)
- EXTERIOR BALCONIES: (80 PSF, 10 PSF, 1/360)
 DECKS: (40 PSF, 10 PSF, 1/360)
- GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360)
- FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- SNOW: (20 Ps
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAMCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE K," DEEP CONTROL JOINTS SAMCUT TO SLAB ON A +-10'-0" x +-10'-0" GRID.)
- 7. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 8/15 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) 425 PSI - MIN).
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 P5I, Fv=285 P5I, E=I.4xI0 P5I.
 J. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 P5I, Fv=240 P5I, E=2.0xI0 P5I.
 L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 P5I, Fv=400 P5I, E=I.55xI0 P5I.
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- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRICTURAL DRAWINGS, TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS, ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36, STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWG (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 46" O.C. ALL STEEL TUBING SHALL BE ASTM ASCO.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (AGTM A325) WITH MASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 14. BRICK LINTELS (NHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6"-O" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 4"-O". SEE PLANS FOR SPANS OVER 4"-O". SEE ALSO SECTION RT03.03 LINTELS.

STRUCTURAL DETAILS: MONO SLAB FOUNDATION PROJECT # 21-2780

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or include construction in reads, incurous, nos or discrepancies on plans are to be b attention of Southern Engineers. Failure im Engineers' lability. for projects permitted one year from data for projects permitted one year from data splans constitutes approval of terms & co.

P.A. Degeneers sea appur Degeneers sea appur Degeneers. Procedurate sequences, procedurate attention yold Southern Enging Seal is valid for projuste of these plans of the proson.

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NEW HOME, INC

The Apex - Plan 0!

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