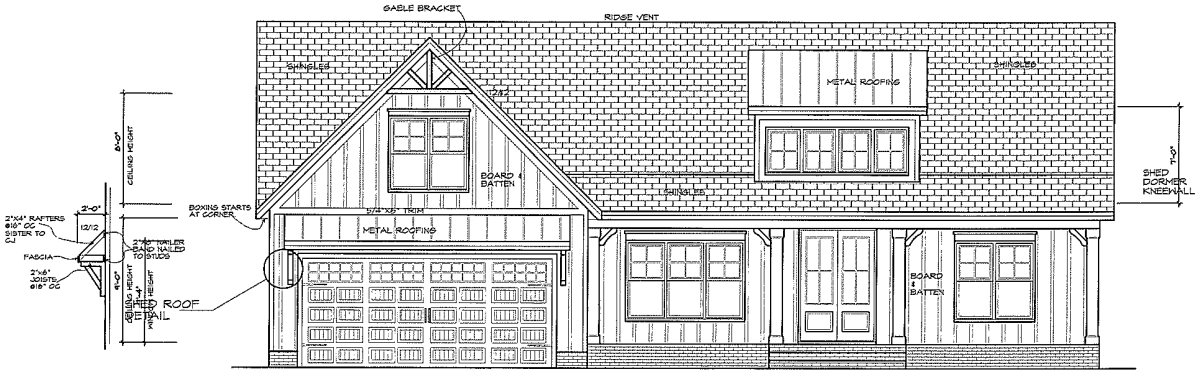
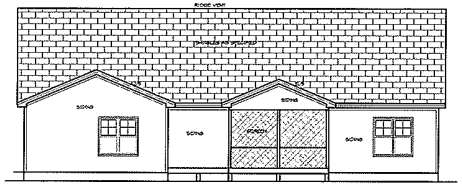


FRONT ELEVATION A

SCALE 1/4" = 1'-0"

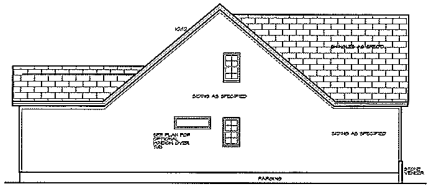
ATTIC VENTILATION

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS



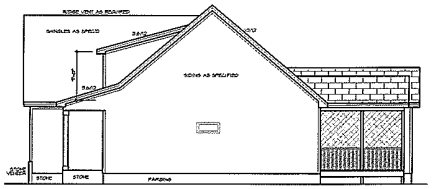
REAR ELEVATION

SCALE 1/8" = 1'0"



LEFT SIDE ELEVATION

SCALE 1/8" = 1'0"



RIGHT SIDE ELEVATION

SCALE 1/8" = 1'0"

MIDTOWN DESIGNS

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NC 2018 NDRC1 - Prob 1 - 15 - 152 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtowndesigns.com

DATE: 8/31/2021

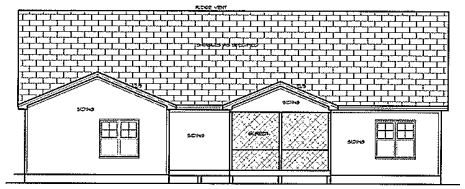
PROJECT #
210604

FRONT ELEVATION "B"

SCALE 1/4" = 1'0"

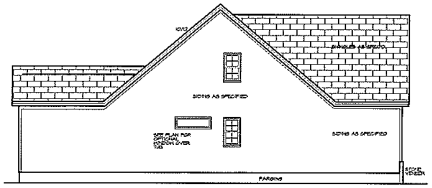
ATTIC VENTILATION

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.



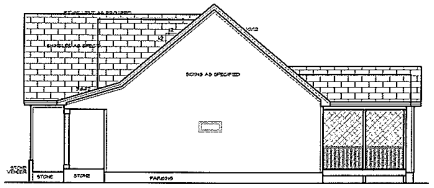
REAR ELEVATION

SCALE 1/8" = 1'0"



LEFT SIDE ELEVATION

SCALE 1/8" = 1'0"



RIGHT SIDE ELEVATION

SCALE 1/8" = 1'0"

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NC ZONE NAME: Area 1 R-8 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtownndesigns.com

DATE: 8/8/2021

PROJECT # 210604

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A
316 BERKSH DR, RALEIGH, NC 27604
LICENSE: C-0291, PHONE: 919-872-1411
PROJECT #: 19-2381

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REFER TO "SOF" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND SYMBOLICAL NOTES.

NORTH CAROLINA PROFESSIONAL SEAL 16013 ENGINEER

FOUNDATION VENTING

SECTION R408 UNDER FLOOR SPACE

R408.1 Ventilation. The underfloor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation cross ventilation by foundation vents, exterior walls. Not less than one 1 square foot for each 150 square feet (0.67 m square) of underfloor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building.

CRAWL AREA TO BE VENTED: 1432 SQFT.
1432/150 = 9.48 NET FREE VENTING AREA REQUIRED

R408.3 Ground Vapor Retarder
A minimum 6 mil polyethylene vapor retarder shall be installed over the earth in the crawl space with joints lapped not less than 12"

FOUNDATION STRUCTURAL NOTES:

NC (2018 NCRC), Hrcs. 115-120 MPH

1. (N) 2x10 SYP #2 OR SPF#2 GIRDER, TYPICAL (N)
2. CONCRETE BLOCK PER SIZE SHALL BE:

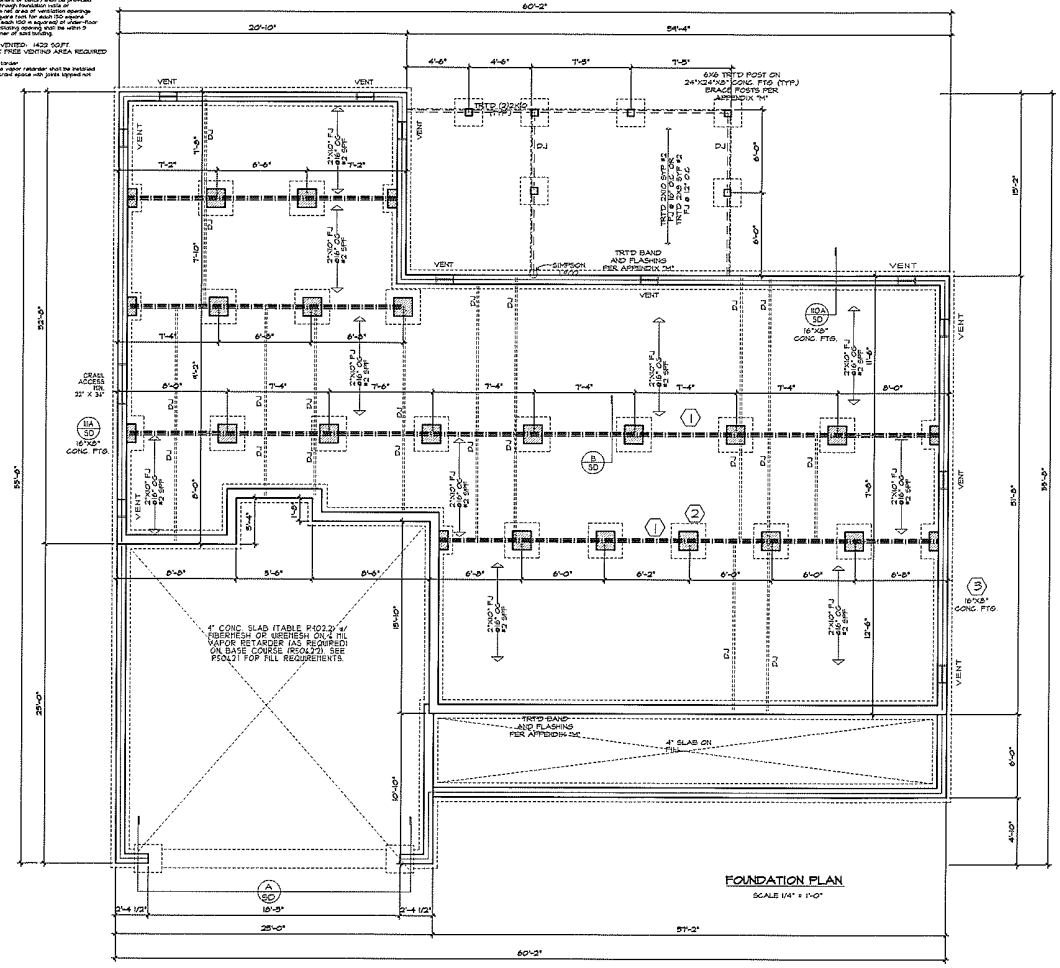
SIZE	HOLLOW MASONRY	SOLID MASONRY
8 x 16	UP TO 3'-3" HIGH	UP TO 5'-0" HIGH
12 x 16	UP TO 4'-0" HIGH	UP TO 6'-0" HIGH
16 x 16	UP TO 5'-6" HIGH	UP TO 8'-0" HIGH
24 x 24	UP TO 9'-6" HIGH	UP TO 12'-0" HIGH

WITH 30" x 10" CONCRETE FOOTING, (N)

3. WALL FOOTING AS FOLLOWS:
DEPTH 8" - UP TO 2-1/2 STORY
12" - 3 STORY
WIDTH SIDING (OR EQUIV.)
- 16" - UP TO 2-1/2 STORY
- 20" - 3 STORY
BRICK VENEER
- 16" - 1 STORY
- 20" - 2 STORY
- 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.1.1 (TBL 4)
NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF
CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

4. (N) 2x10 SYP#2 OR SPF#2 GIRDER.
5. (2) 1.75x9.25 LVL OR LSL GIRDER
6. (3) 1.75x9.25 LVL OR LSL GIRDER
7. ■ DESIGNATES A SUSPENDED POST LOAD TO HAVE SOLID BLOCKING TO FTG. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FTG, TYPICAL.
8. ABBREVIATION:
"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST



FOUNDATION PLAN

SCALE 1/4" = 1'-0"

MIDTOWN DESIGNS

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NC (2018 NCRC) - Hrcs 115 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtowndesigns.com

DATE: 8/3/2021

PROJECT #
210604

STRUCTURAL DESIGN BY
SOUTHERN ENGINEERS, P.A.
3351 BERGEN DR., RALEIGH, NC 27604
LICENSE: C-0371, PHONE: 919-878-1411
PROJECT #: 19-2381

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- Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16073 JAMES D. HEWITT

REFER TO "SD" SHEETS FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

FOUNDATION STRUCTURAL NOTES:

1. (3) 2 x 10 EPF #2 GIRDER DROPPED, TYPICAL UNO.
2. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HALLOW MASONRY	SOLID MASONRY
8 x 16	UP TO 32" HIGH	UP TO 5'-0" HIGH
12 x 8	UP TO 48" HIGH	UP TO 8'-0" HIGH
16 x 16	UP TO 64" HIGH	UP TO 12'-0" HIGH
24 x 24	UP TO 48" HIGH	

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO

3. WALL FOOTING AS FOLLOWS:

DEPTH: 8" - UP TO 2-1/2 STORY
10" - 3 STORY

WIDTH: SIDING (OR EQUAL)
- 16" - UP TO 2-1/2 STORY
- 19" - 3 STORY

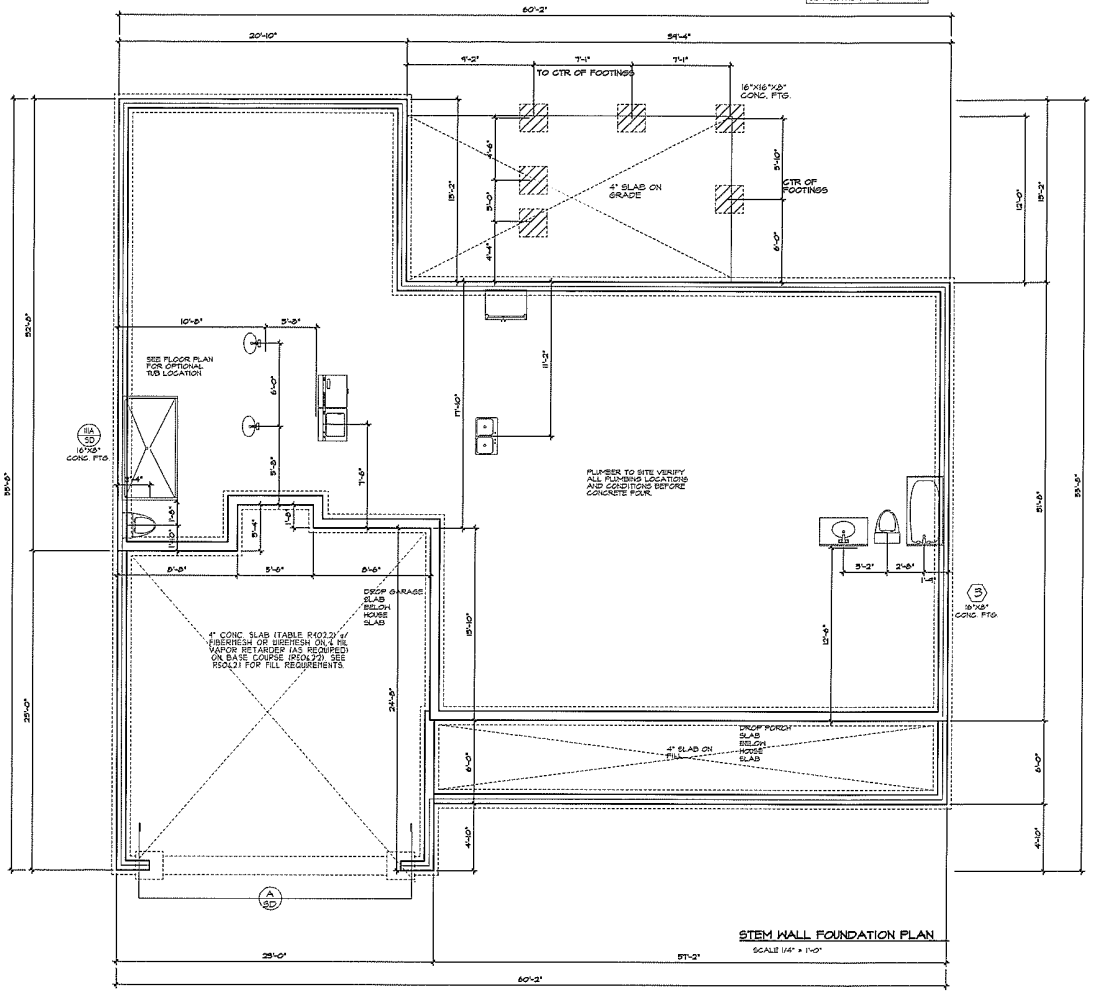
BRICK VENEER
- 16" - 1 STORY
- 20" - 2 STORY
- 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.1.1 (1 THRU 4)
NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF
CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSUITABLE SOILS ARE ENCOUNTERED

ATTACH SILL PLATE WITH 1/2"Ø x 10" ANCHOR BOLTS AT 6'-0" CENTERS (7" EMBEDMENT) AND 12" FROM EACH PLATE END (SECTION R 403.1.6)

4. "B" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO PIER, TYPICAL.
5. ABBREVIATIONS:

"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST



STEM WALL FOUNDATION PLAN
SCALE 1/4" = 1'-0"

MIDTOWN DESIGNS

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NC 2015 IECC / Zone 3 / 15 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtowndesigns.com

DATE 8/3/2021

PROJECT # 210604

TRUSS SYSTEM REQUIREMENTS

NC 2018 NCRC: Grd: 15-20 mph

1. 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.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (ONLY)

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS

5. INSTALL A TRUSS BELOW PARALLEL NON-LOAD BEARING WALLS OR BLOCK BETWEEN TRUSSES (BY TRUSS SUPPLIER) UNDER WALLS.

WHOLE HOUSE BRACING SUMMARY

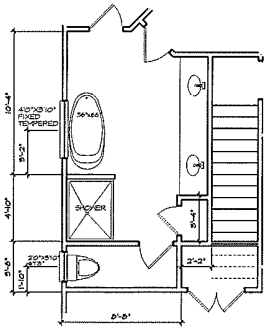
TOTAL REQUIRED BRACING: 28
TOTAL PROVIDED BRACING: 106
(IN FEET)

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) 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 "6" IN TABLE R602.3(5) OR AS BELOW.

- UP TO 4' SPAN: (1) KING STUD
- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 12' SPAN: (3) KINGS STUDS
- OVER 12' SPAN: (4) KING STUDS



OPTIONAL BATH

FRAMING NOTES:

NC 2018 NCRC: Grd: 15-20 mph

1. 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 THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.

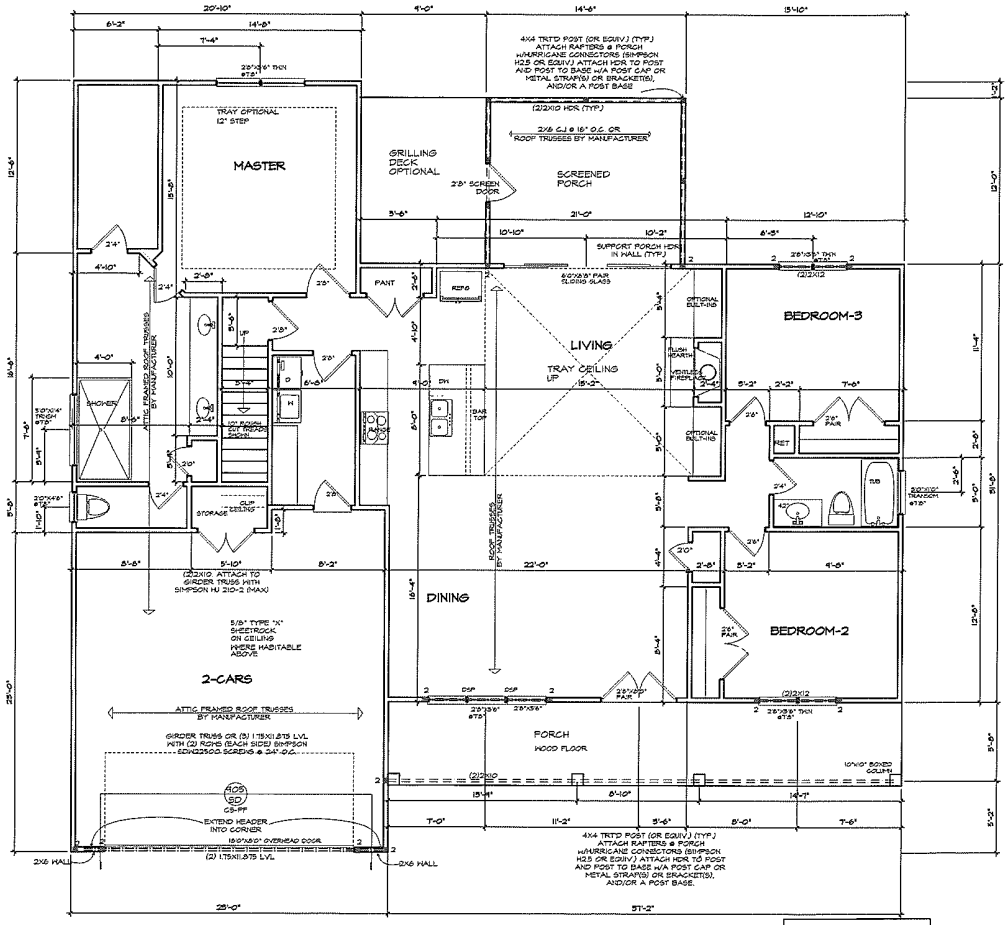
2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH GOOD STRUCTURAL PANEL SHEATHING (WSP) TEXPOURED, B, 1/4" EXPOSURE C, (1/32") SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" O.C. AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS) INSTALL BLOCKING AT ALL PANEL EDGES.

3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE BLOCK ALL FOOR AND ATTACH BOTTOM WALLS TO FLOOR. WSP SHEATHING BETWEEN FLOORS WALLS SHALL BE SCREWED ACROSS THE CONTINUOUS ACROSS FLOOR SYSTEM WITH BLOCKING AT PANEL EDGES MINIMUM 2" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD

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.
FOUNDATION/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD"FOUNDATION SECTIONS.
UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (11) 8d NAILS.

5. INTERIOR BRACED WALL (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH 5d COOLER NAILS OR 1/4" SCREWS 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

6. INTERIOR BRACED WALL=WOOD STRUCTURAL PANEL (NOTED AS "IBW-WSP" ON PLANS) ATTACH ONE SIDE WITH 1/4" 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 WSP REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 6 COOLER NAILS OR 8d SCREWS 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

SQUARE FOOTAGE	
FIRST FLOOR	1,571 SQ.FT.
OPTIONAL FLYROOM = 473 SQ.FT.	
TOTAL W/FLYROOM = 2044 SQ.FT.	
FRONT PORCH = 223 SQ.FT.	
REAR PORCH = 174 SQ.FT.	
DECK = 108 SQ.FT.	
GARAGE = 557 SQ.FT.	

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3116 BENSON DR., RALEIGH, NC 27609
LICENSE: C-0391, PHONE: 919-876-1617
PROJECT #: 19-2381

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REFER TO "SDP" SHEET(S) FOR STANDARD DETAILS, BRACING, DETAILS, AND STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16073 JAMES H. ROBERTSON

MIDTOWN DESIGNS

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NC 2018 NCRC / IRC 2 - 15 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtowndesigns.com

DATE: 8/3/2021

PROJECT #: 210604

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC 27609
LICENSE: C-0281, PHONE: 919-878-1101
PROJECT #: 19-258

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REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL SEAL 16073 ENGINEER JAMES H. SEPHERSON

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC), Ahrs. 115-130 MPH

1. 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.

2. TRUSS SCHEMATICS (TRUSPLESS) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS ONLY.

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

5. INSTALL A TRUSS BELOW PARALLEL NON-LOAD BEARING WALLS OR BLOCK BETWEEN TRUSSES (BY TRUSS SUPPLIER) UNDER WALLS.

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) 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 "a" IN TABLE R602.3(5) OR AS BELOW.

- UP TO 4' SPAN: (1) KING STUD
- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 11' SPAN: (3) KING STUDS
- OVER 11' SPAN: (4) KING STUDS

FRAMING NOTES

NC (2018 NCRC), Ahrs. 115-130 mph

1. BRACING METHOD AND TYPE: ADDITIONALLY SHEATHED HDP ADHERE TOTE (THAN THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.

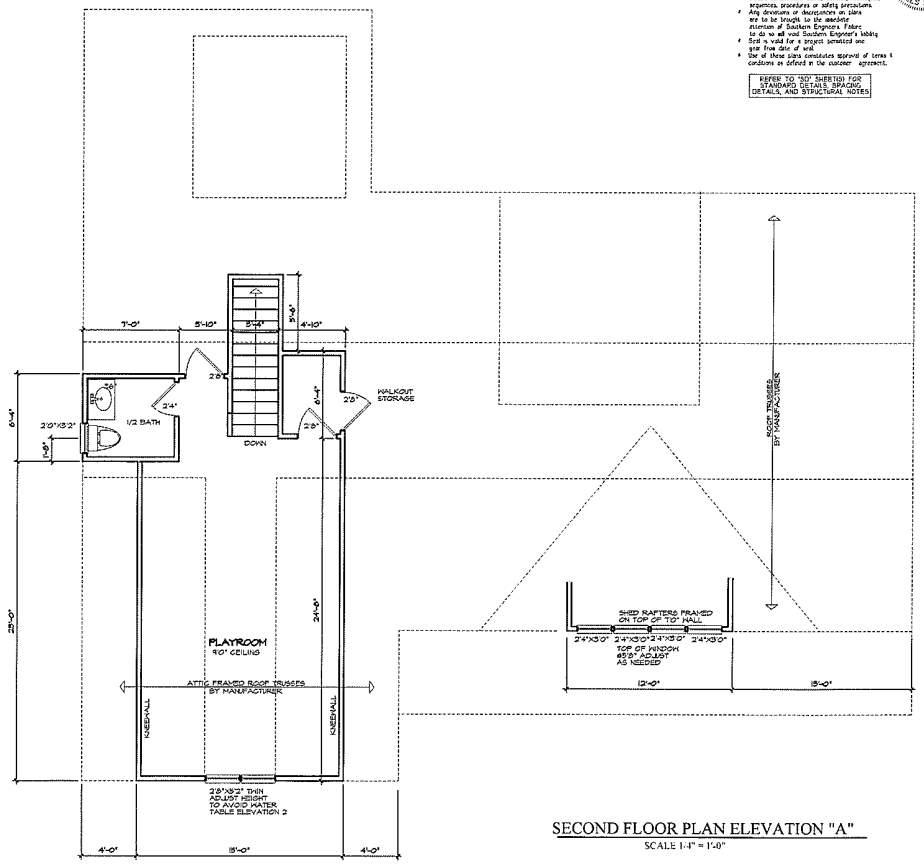
2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (NOMINAL 7/16" EXPOSURE 1). (NOTE) SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS) INSTALL BLOCKING AT ALL PANEL EDGES.

3. HDP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE. HDP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ACROSS STUDS (CONTINUOUS BRACE). INSTALL SYSTEMS WITH BLOCKING AT PANEL EDGES WHICH BEYOND FLOOR BREAKS OR OTHER APPROVED METHOD.

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.
HOLDOWN FIRST FLOOR. USE "HD HOLD-DOWN DETAILS" ON SD SHEET (SD SERIES).
HOLDOWN SECOND FLOOR. ATTACH BASE OF KING STUD WITH A SIMPSON G22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 11" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (11) 8d NAILS.

5. INTERIOR BRACED WALL (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 8d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL (NOTED AS "SHWOSP" ON PLANS). ATTACH ONE SIDE WITH 7/16" HDP 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 6d OVER HDP REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 8d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



SECOND FLOOR PLAN ELEVATION "A"

SCALE 1/4" = 1'-0"

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MC 2020 NCRC / Ahrs 115 - 130 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-6628 www.midtowndesigns.com

DATE 8/3/2021

PROJECT # 210604

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
376 BENSON DR., RALEIGH, NC 27609
LICENSE: C-1293, PHONE: 919-878-1371
PROJECT #: 19-2981

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- Seal is valid for a period permitted one year from date of seal.
- Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL SEAL 18073 ENGINEER JAMES E. HEDRICK

TRUSS SYSTEM REQUIREMENTS

NC (2018 NDRC) Wind: 115-120 MPH

1. 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.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (DF).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING WALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

5. DETAIL A TRUSS BELOW PARALLEL NON-LOAD BEARING WALLS OR BLOCK BETWEEN TRUSSES (BY TRUSS SUPPLIER) UNDER WALLS.

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (24" WALL) OR (3) 2x10 (36" WALL) WITH (1) 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 "a" IN TABLE R602.3(5) OR AS BELOW:

- UP TO 4' SPAN: (1) KING STUD
- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 11' SPAN: (3) KING STUDS
- OVER 11' SPAN: (4) KING STUDS

FRAMING NOTES

NC (2018 NDRC) Wind: 115-120 mph

1. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED HDP. ESHOR. NOTE: (NAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.

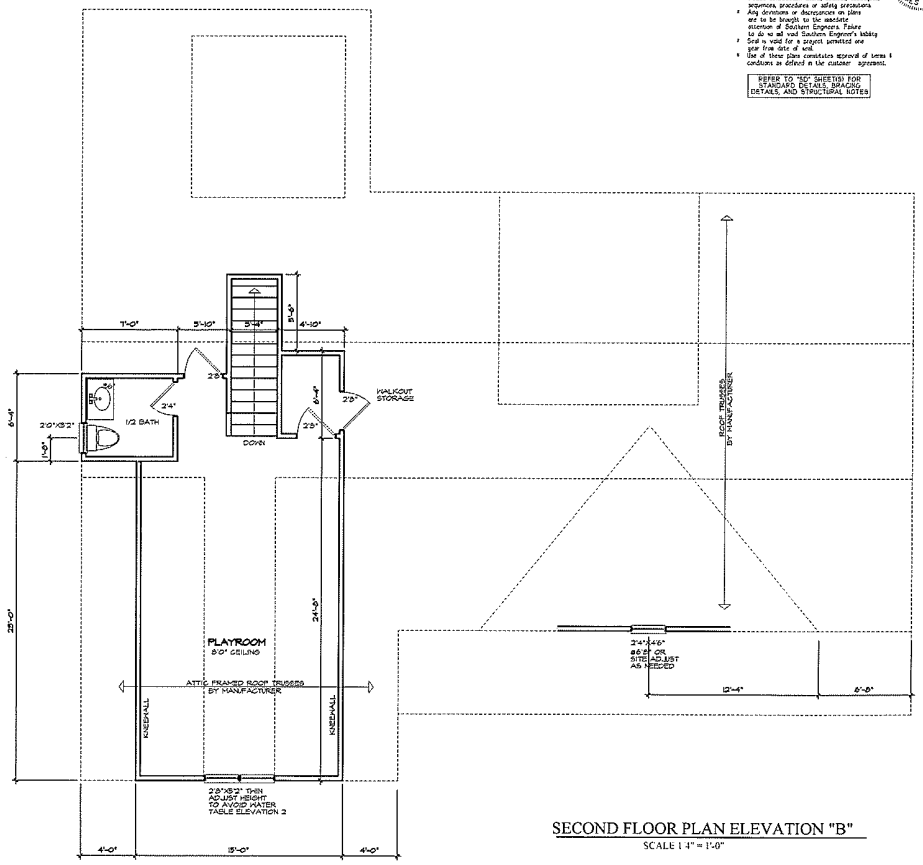
2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS (1) ALL SCHEDS WITH HDP STRUCTURAL PANEL SHEATHING (NOTES INCLUDE B, 1/16" EXPOSURE C, (A/B2) SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" O.C. AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS) INSTALL BLOCKING AT ALL PANEL EDGES.

3. HDP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE. HDP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ACROSS STUDS CONTINUOUS (NOT BLOCKED) OR STUDS WITH BLOCKING AT PANEL EDGES MINIMUM 3" BETWEEN FLOOR BREAKS OR OTHER APPROVED MEANS.

4. "HD" = HOLDOWN. HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 8000 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
HYDRONE/FIRST FLOOR. USE "HD HOLD-DOWN DETAIL" ON DETAIL SHEET.
HYDRONE/LOWER LEVEL. ATTACH BASE OF KING STUD WITH A SIMPSON LSS2 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP TO HD ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W (7) 8d NAILS.

5. INTERIOR BRACED WALL (NOTED AS "BW" 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 INTERMEDIATE SUPPORTS.

6. INTERIOR BRACED WALL-HDPD STRUCTURAL PANEL (NOTED AS "BWHDP" ON PLANS) ATTACH ONE SIDE WITH 7/16" HDP 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 HDP 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 ELEVATION "B"

SCALE 1/4" = 1'-0"

MIDTOWN DESIGNS

Purchaser must verify all dimensions and conditions before beginning construction.

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NC (2018 NDRC) Wind: 115 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtowndesigns.com

DATE: 8/9/2021

PROJECT #: 210604

ROOF FRAMING NOTES.

NC 12018 NCRC1 Bnd. 85-120 MPH

1. 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
2. (2) 2x10 OR 1.75x11.875 LVL HIP. (2) 2x10 HIPS MAY BE SPLICED WITH A MIN. 2'-0" OVERLAP AT CENTER
3. (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
4. 1.75x11.875 LVL VALLEY
5. FALSE FRAME VALLEY ON 2x10 FLAT PLATE
6. 2x4 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
7. 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
8. EXTEND RIDGE 12" BEYOND INTERSECTION

- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER
- "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2x4 OR 4x4 FOR SUPPORT POSTS OVER 10'-0" IN HEIGHT)
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H2.5A" OR EQUIVALENT
- INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R802.3.1 OF THE 2018 NC RESIDENTIAL CODE

TRUSS SYSTEM REQUIREMENTS

NC 12018 NCRC1 Bnd. 85-120 MPH

1. 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.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS ONLY.

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS

5. INSTALL A TRUSS BELOW PARALLEL NON-LOAD BEARING WALLS OR BLOCK BETWEEN TRUSSES (BY TRUSS SUPPLIER) UNDER WALLS

STRUCTURAL DESIGN BY:

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PROJECT #: 19-2381

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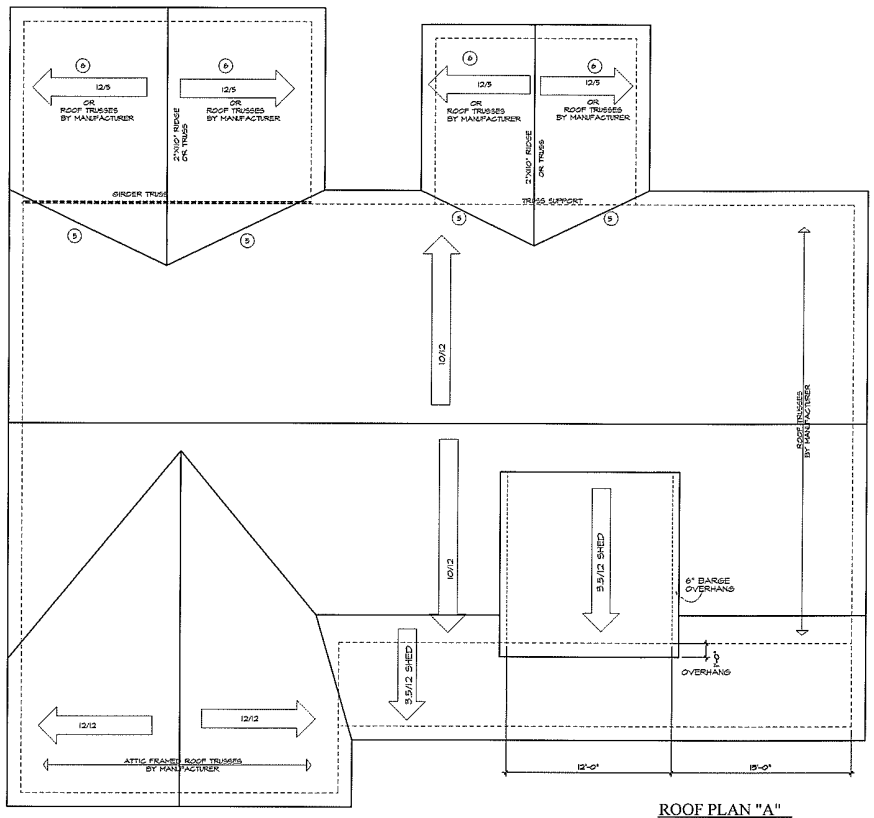
REFER TO "NOT SHEETS" FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16073 JAMES H. HEWITT



ROOF PLAN "A"
SCALE 1/4" = 1'-0"

MIDTOWN DESIGNS

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NC 12018 NCRC1 - Bnd. 85 - 120 mph

The Front Porch

GEMSTONE HOMES

MidTown Designs Inc. 1529 Big Falls Dr. Wendell NC 27591 Phone: 919-783-8626 www.midtownndesigns.com

DATE: 8/19/2021

PROJECT #
210604

ROOF FRAMING NOTES:

NC (2018 NCRC): Gust 115-120 MPH

1. 2x6 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
2. (2) 2x10 OR 1.75x18.75 LVL HIP. (2) 2x10 HIPS MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
3. (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
4. 1.75x18.75 LVL VALLEY
5. FALSE FRAME VALLEY ON 2x10 FLAT PLATE
6. 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
7. 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
8. EXTEND RIDGE 12" BEYOND INTERSECTION

- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER
- "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2X4 OR 2X6 FOR SUPPORT POSTS OVER 10'-0" IN HEIGHT)
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STRUCTURAL DESIGN BY:

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PROJECT #: 19-2381

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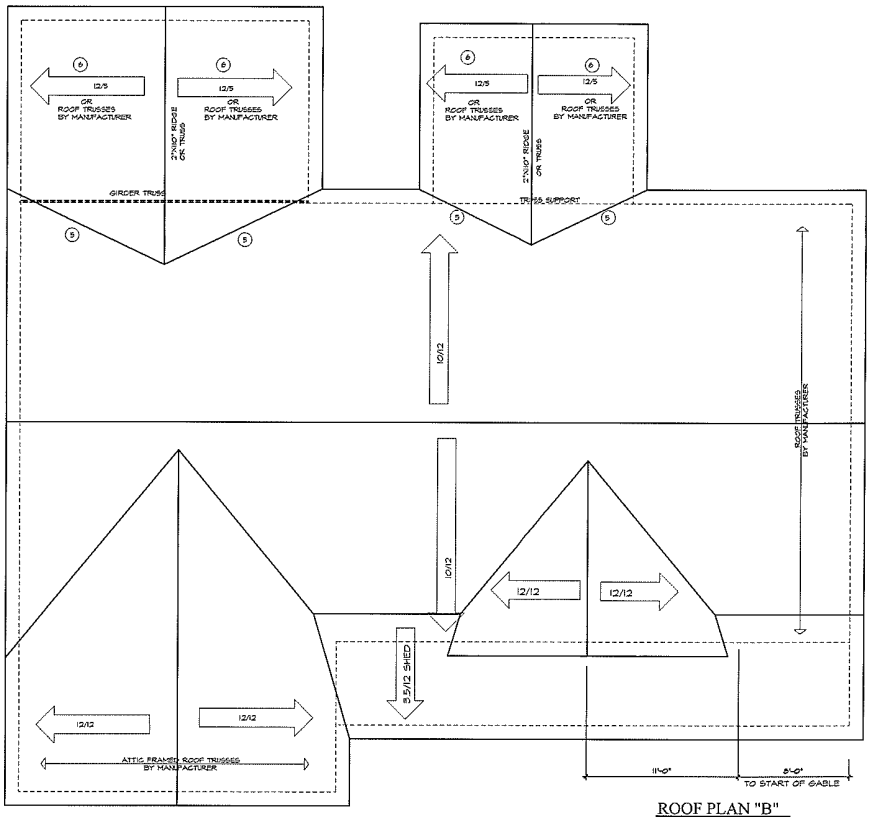
REFER TO "RD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL SEAL 18073 ENGINEER JAMES H. HINNANT



ROOF PLAN "B"

SCALE 1/4" = 1'-0"

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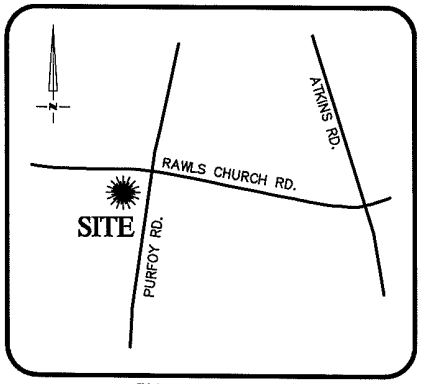


VICINITY MAP
Not To Scale

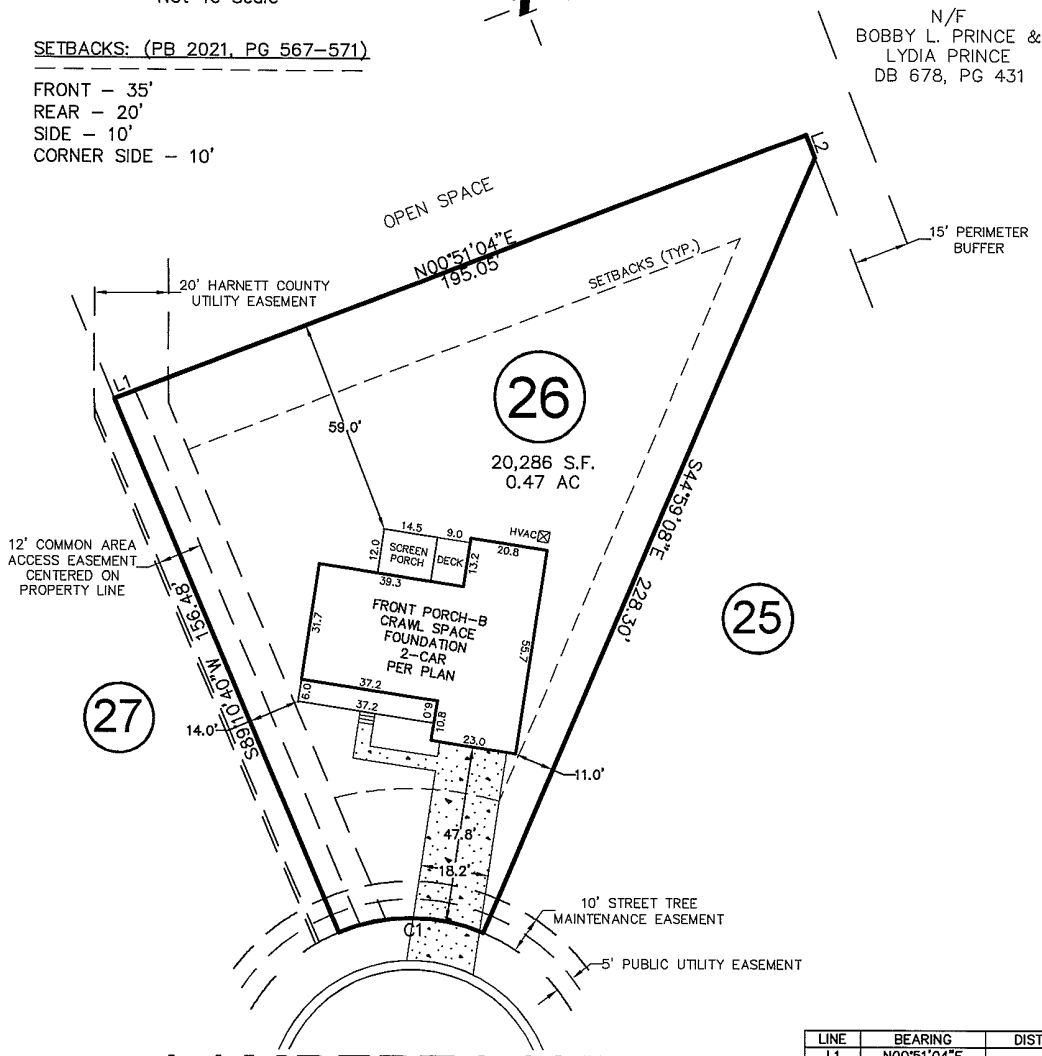
NORTH CAROLINA PROFESSIONAL SEAL L-4679 LAND SURVEYOR DEAN M. RHOADS

IMPERVIOUS SURFACE AREA	
DESCRIPTION	AREA
HOUSE & PORCH	2,652 S.F.
SC PORCH/HVAC	183 S.F.
DRIVEWAY & WALKS	1,004 S.F.
TOTAL =	3,839 S.F.
LOT AREA =	20,286 S.F.
% IMPERVIOUS AREA	=18.9%

PB 2021, PG 568-571

SETBACKS: (PB 2021, PG 567-571)

FRONT – 35'
REAR – 20'
SIDE – 10'
CORNER SIDE – 10'



LAMBERT LANE

50' PUBLIC R/W & UTILITY EASEMENT

LINE	BEARING	DISTANCE
L1	N00°51'04"E	4.89'
L2	S89°00'36"E	6.75'

CURVE	RADIUS	ARC LENGTH	CH LENGTH	CH BEARING
C1	50.00'	40.00'	38.94'	S22°05'24"W

THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES.

THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD OR IMPLIED

40 0 40
SCALE: 1" = 40'

RESIDENTIAL LAND SERVICES, PLLC.
1917 Evans Road
Cary, North Carolina 27513
Phone (919) 378-9316
Firm License # P-0873

HOUSE LOCATION PLOT PLAN

FOR
#568 LAMBERT LANE
LOT 26, PURFOY PLACE SUBDIVISION
Hector's Creek Township, Harnett County, North Carolina

PROPERTY OF: GEMSTONE HOMES

MAP BOOK 2021 PAGE 568-571 DEED REFERENCE _____ PAGE _____

DRAWN BY: SMB | DATE: FEBRUARY 10, 2022