

# MAGNOLIA

## ELEVATION D

# PRINCE PLACE

## LOT 53



3-CAR  
FRONT LOAD  
OPTION

4' GARAGE  
EXTENSION  
OPTION

- INCLUDED OPTIONS:**
- 1st FLOOR**
  - SCREENED PORCH**
  - GOURMET KITCHEN**
  - FLOOR RECEPTACLE @ FAMILY ROOM**
  - FIXED WINDOWS @ FAMILY ROOM**
  - FIREPLACE W/ BUILT-INS**
  - OPEN RAIL**
  - OAK STAIRS**
  - FRENCH DOORS @ STUDY**
  - TRAY @ DINING**
  - TRAY @ OWNERS**
  - OWNERS DELUXE BATH**
  - SECOND SINK @ BATH 2**
  - BENCH @ MUDROOM**
  - EXTENDED GARAGE**
  - THIRD CAR GARAGE**
  - 2nd FLOOR**
  - BONUS ROOM**
  - BEDROOM 4 W/ BATH**
  - SHOWER ILO TUB @ BATH 3**
  - UNFINISHED STORAGE**

| BASE HOUSE SQUARE FOOTAGE CALCULATIONS |            |            |                       |            |          | TOTAL UNDER ROOF |
|--|------------|------------|-----------------------|------------|----------|------------------|
| ELEVATION                              | 1st FLOOR  | TOTAL FIN. | FRONT PORCH           | REAR PORCH | GARAGE   |                  |
| ELEV. D                                | 2,524 s.f. | 2,524 s.f. | 160 s.f.              | 300 s.f.   | 396 s.f. | 3,381 s.f.       |
| OPTIONS SQUARE FOOTAGE CALCULATIONS    |            |            |                       |            |          |                  |
| <b>OPTIONS:</b>                        |            |            |                       |            |          |                  |
| EXTENDED GARAGE                        |            | + 80 s.f.  | BONUS ROOM W/ BEDROOM |            |          | +927 s.f.        |
| 3RD CAR GARAGE                         |            | +264 s.f.  | BONUS ROOM STORAGE    |            |          | +124 s.f.        |

| REVISION NUMBER |
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**DAVIDSON HOMES**

1/8" = 1'-0"

|                |            |
|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER | ---        |
| OPTION NO.     | ---        |

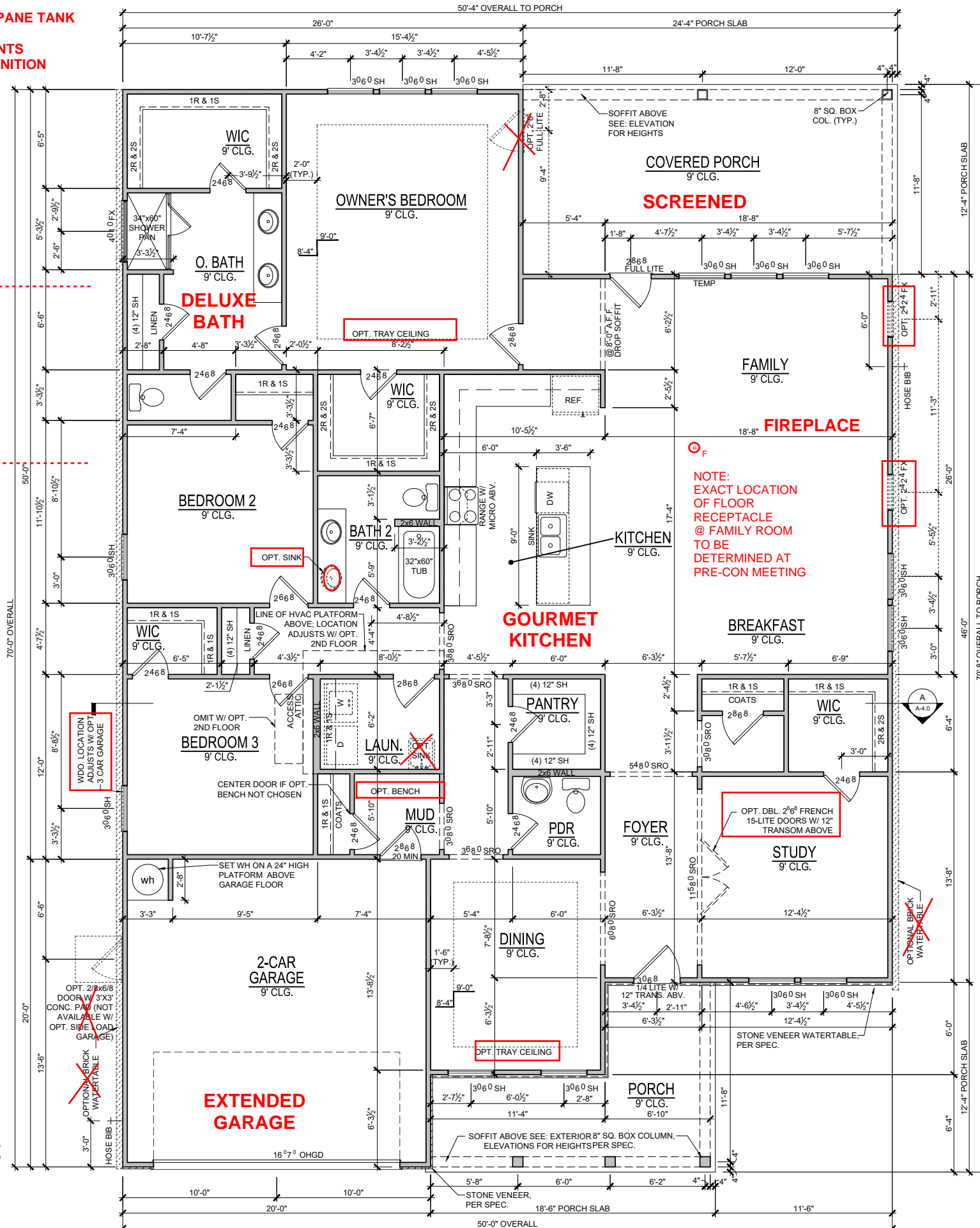
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|--------------------|-------------|
| MODEL              | MAGNOLIA    |
| DRAWING TITLE      | COVER SHEET |
| OPTION DESCRIPTION |             |

SHEET NO.  
**CS-1.0**

**NOTE; PROPANE TANK  
TO BE SET  
5' FROM VENTS  
10' FROM IGNITION**

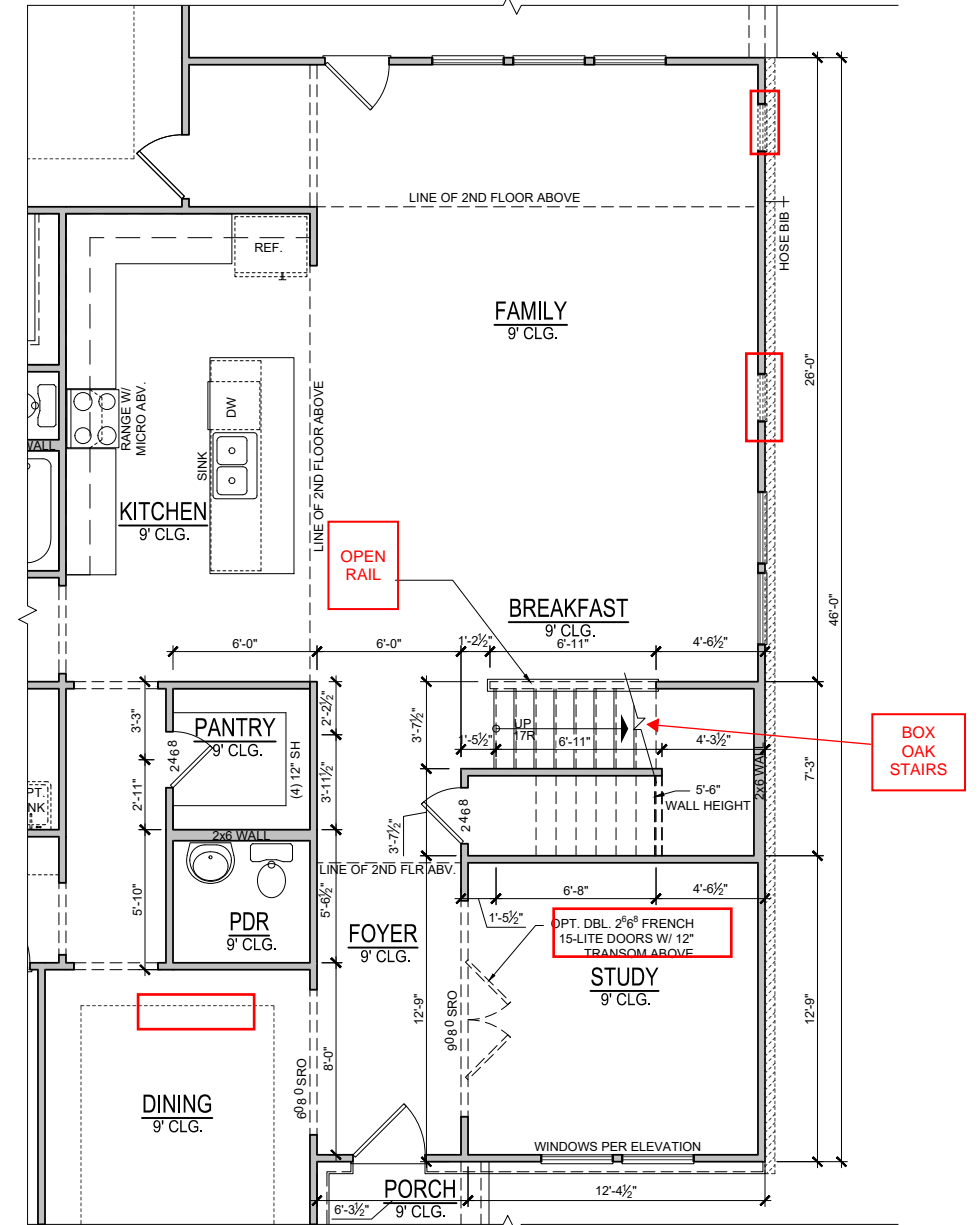
**PROPANE TANK**

**THIRD  
CAR  
GARAGE**



# PRINCE PLACE LOT 53

**SEE PAGE 0-5.0  
FOR OPTIONS:  
EXTENDED GARAGE  
THIRD CAR GARAGE  
SCREENED PORCH  
DELUXE BATH  
FIREPLACE W/ BUILT-INS  
GOURMET KITCHEN  
BENCH DETAIL**



| REVISION NUMBER |
|-----------------|
|                 |
|                 |
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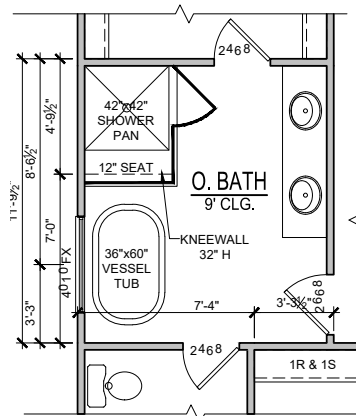


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|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER |            |
| OPTION NO.     |            |

|                    |                         |
|--------------------|-------------------------|
| MODEL              | <b>MAGNOLIA</b>         |
| DRAWING TITLE      | <b>FIRST FLOOR PLAN</b> |
| OPTION DESCRIPTION | ELEVATION - D           |

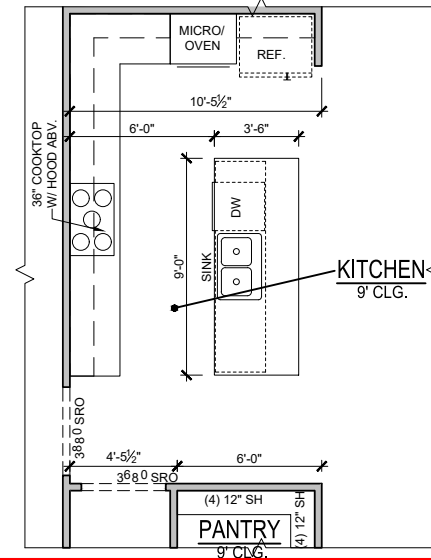
SHEET NO.  
**A-1.0D**

# PRINCE PLACE LOT 53



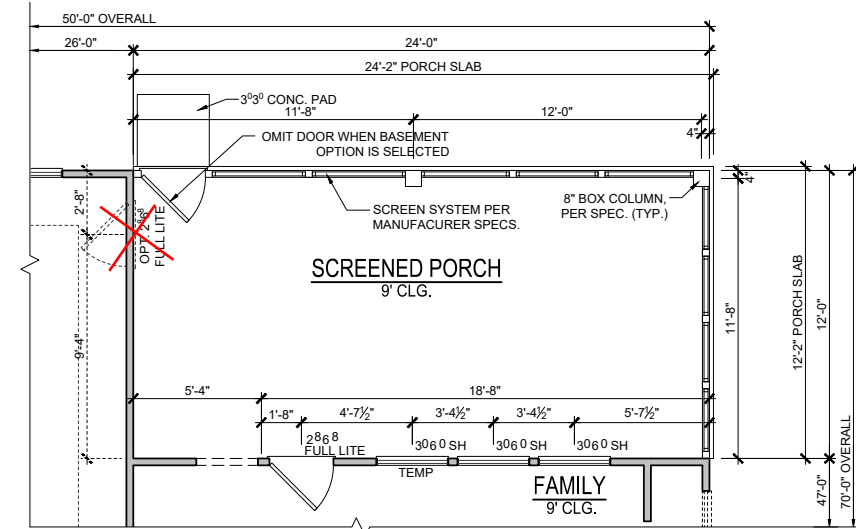
**OPT. DELUXE BATH**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



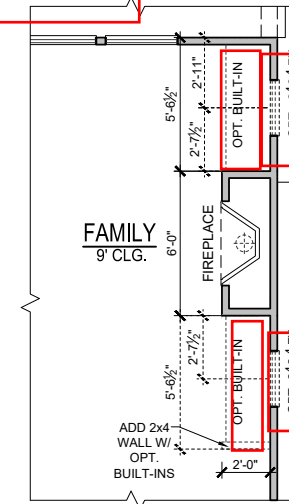
**OPT. GOURMET KITCHEN**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



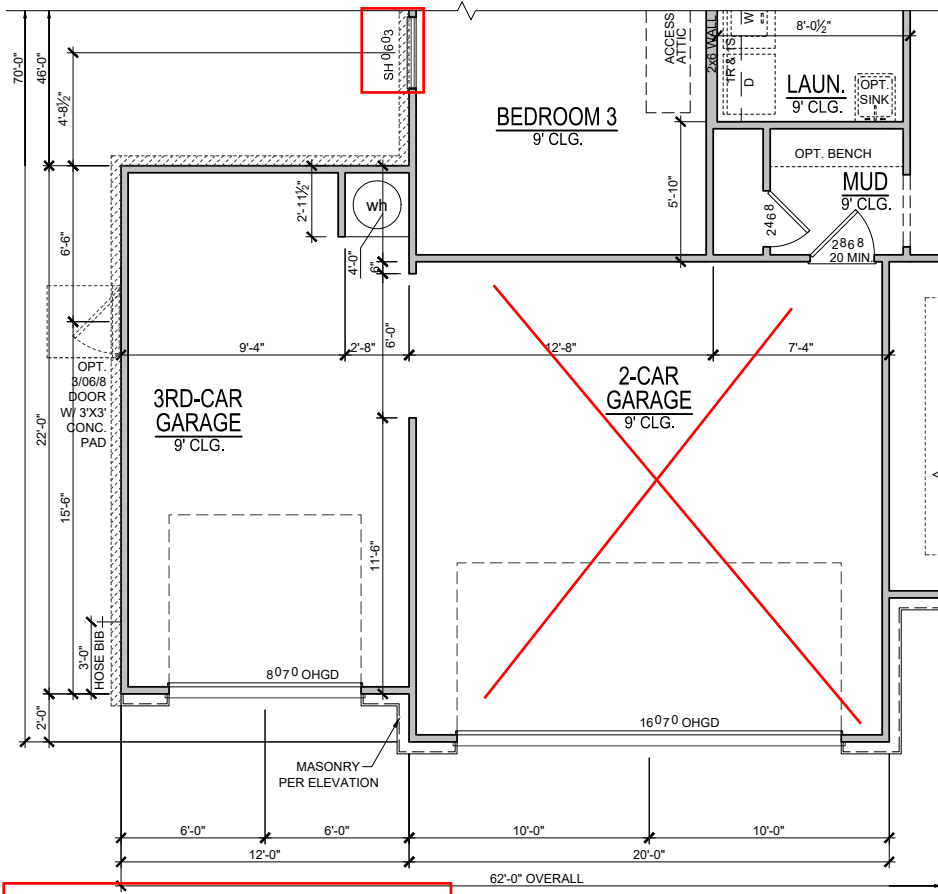
**1st FLOOR PLAN  
OPT. SCREENED PORCH**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



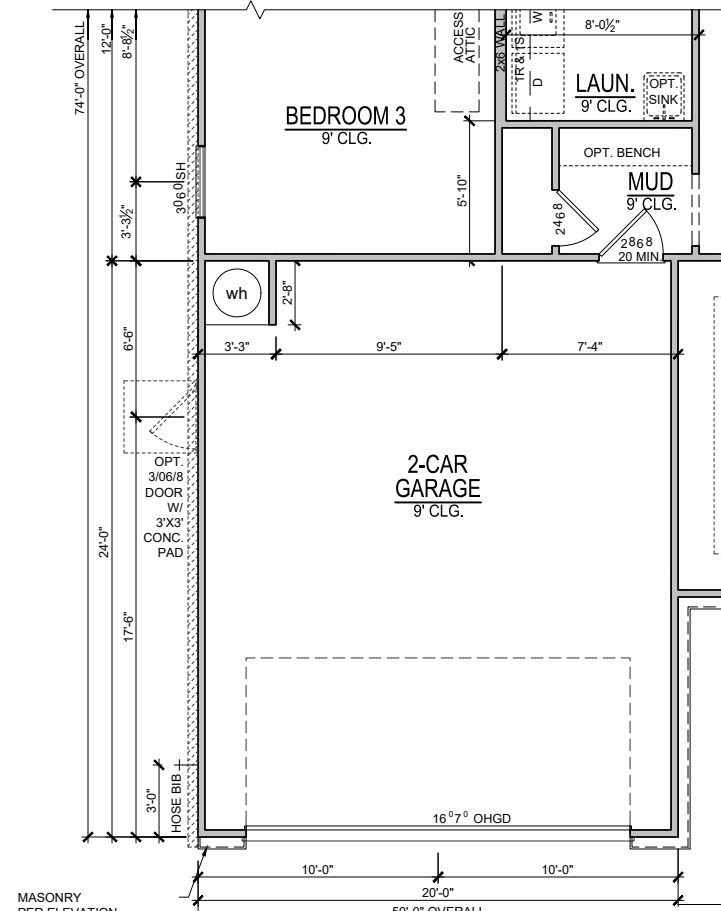
**OPT. FIREPLACE**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



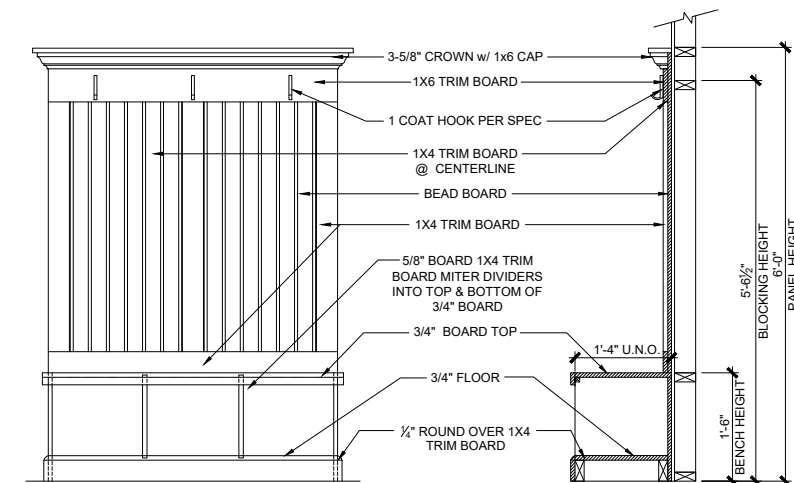
**OPT. 3RD CAR GARAGE  
1st FLOOR PLAN**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



**OPT. 4' FRONT LOAD GARAGE EXT.  
1st FLOOR PLAN**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



**OPT. BENCH DETAIL**

SCALE: 3/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 3/4"=1'-0" (22"x34" SHEET SIZE)

REVISION NUMBER



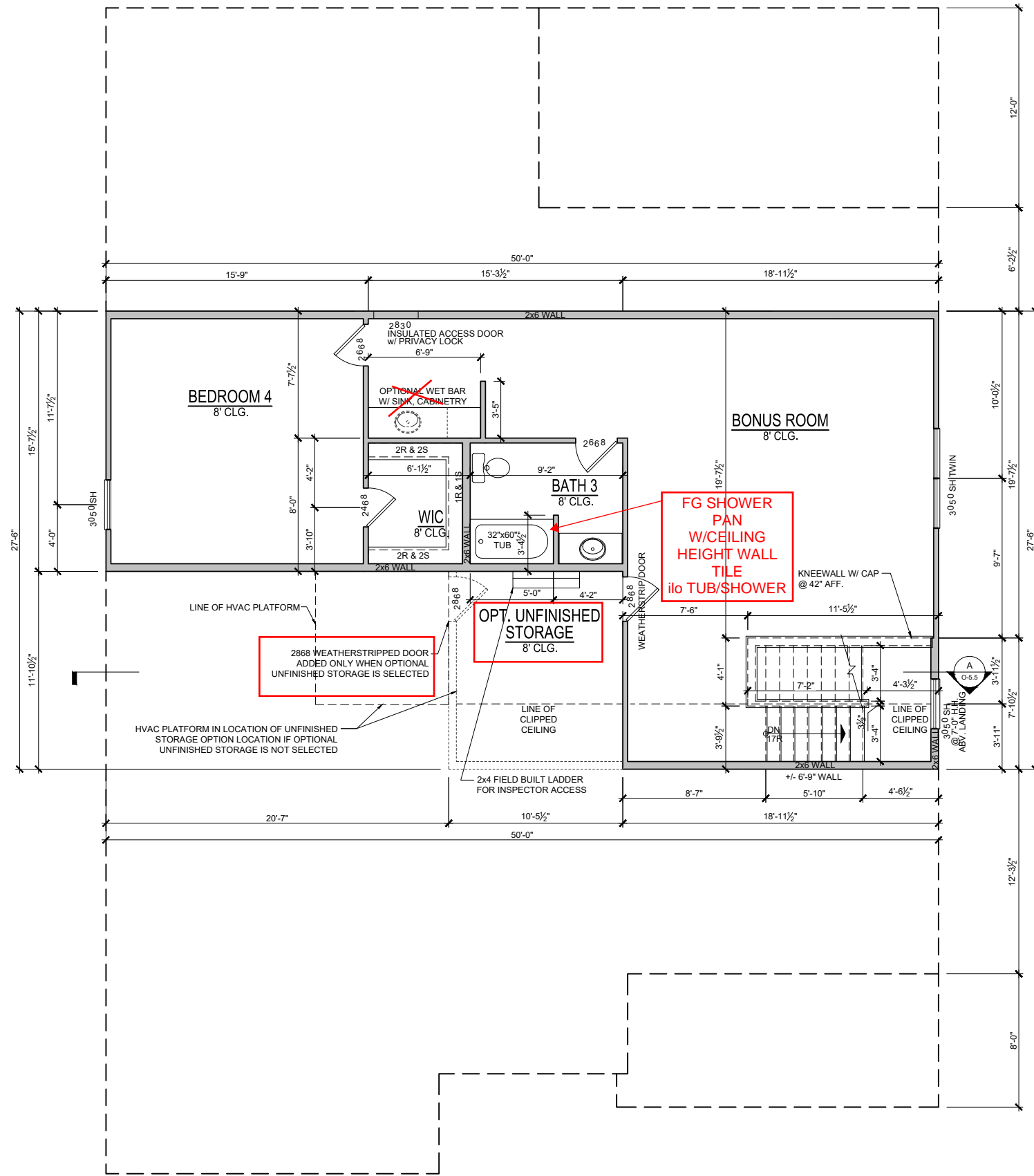
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|              |                |                    |
|--------------|----------------|--------------------|
| RELEASE DATE | 1/8"=1'-0"     |                    |
| 06-15-2021   | PROJECT NUMBER | OPTION NO.         |
|              |                |                    |
| MODEL        | DRAWING TITLE  | OPTION DESCRIPTION |
| MAGNOLIA     | PLAN OPTIONS   | BONUS ROOM         |

SHEET NO.  
**O-5.0**

# PRINCE PLACE LOT 53



**OPT. BONUS ROOM W/ BEDROOM  
2ND FLOOR PLAN** +927 SQ.FT.

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)

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1/8" = 1'-0"

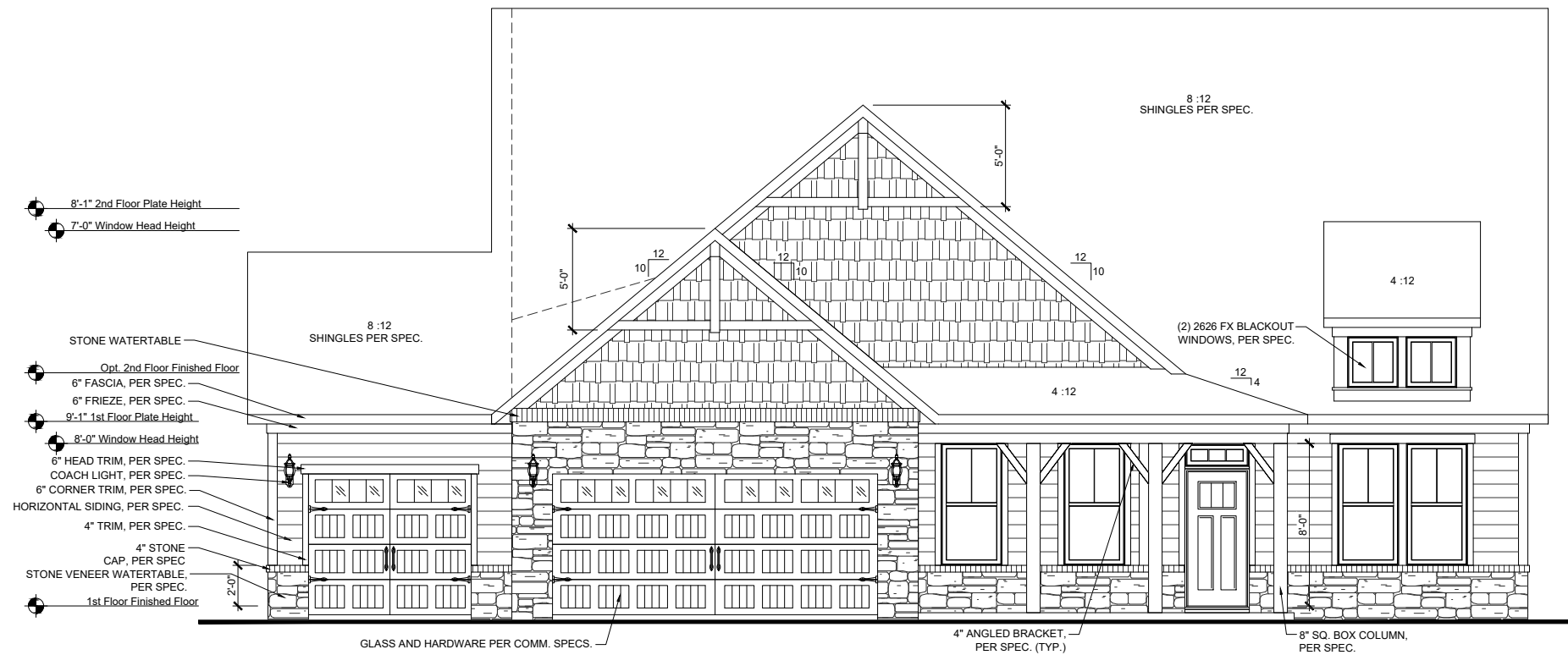
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|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER | -----      |
| OPTION NO.     | -----      |

|                    |                        |
|--------------------|------------------------|
| MODEL              | MAGNOLIA               |
| DRAWING TITLE      | PLAN OPTIONS           |
| OPTION DESCRIPTION | 2ND FLOOR BONUS W/ BED |

SHEET NO.  
**O-5.4**



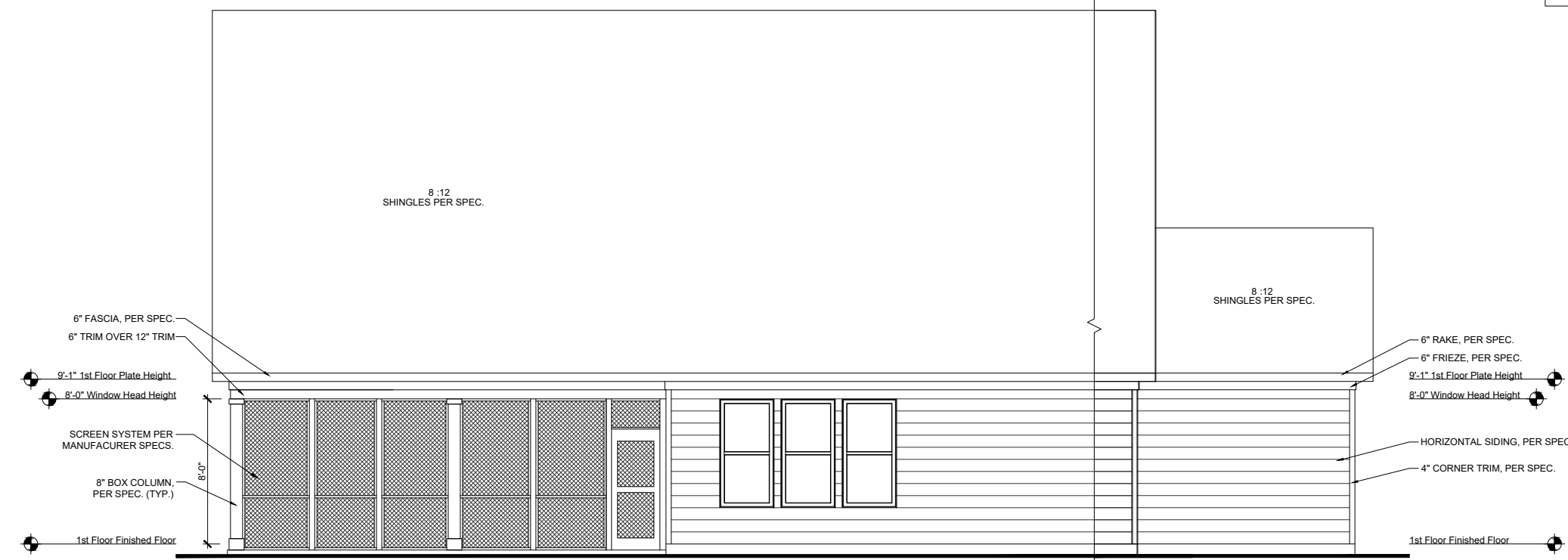
# PRINCE PLACE LOT 53



**4' FRONT LOAD GARAGE EXT. W/ 3RD CAR GARAGE FRONT ELEVATION - 'D'**

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

| FACADE PERCENTAGES |            |             |
|--------------------|------------|-------------|
| MATERIALS          | S.F.       | %           |
| SIDING             | 143        | 27          |
| SHAKE              | 167        | 35          |
| BOARD & BATT       | 0          | 0           |
| HARDI BOARD        | 0          | 0           |
| STONE VENEER       | 200        | 38          |
| BRICK VENEER       | 0          | 0           |
| <b>TOTAL</b>       | <b>530</b> | <b>100</b>  |
| <b>MASONRY %</b>   |            | <b>= 38</b> |



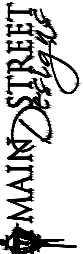
**SCREENED PORCH REAR ELEVATION**

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

**OPT. 3RD CAR GARAGE REAR ELEVATION**

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

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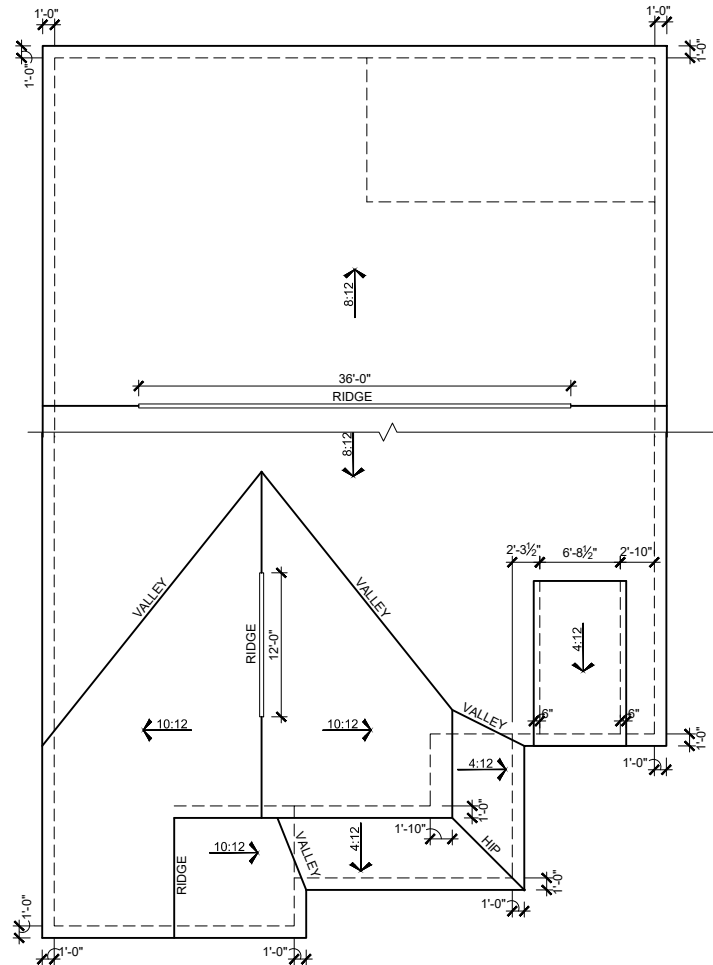
1/8" = 1'-0"

|                |            |
|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER | ---        |
| OPTION NO.     | ---        |

|                    |  |
|--------------------|--|
| MODEL              | MAGNOLIA                                 |
| DRAWING TITLE      | PLAN OPTIONS                             |
| OPTION DESCRIPTION | 4' FRONT LOAD GARAGE w/ 3 CAR GARAGE 'D' |

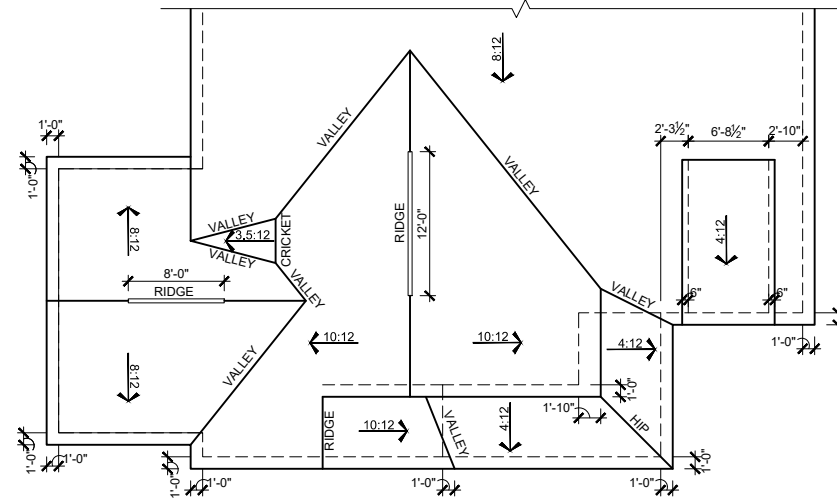
SHEET NO.  
**O-2.1D**

# PRINCE PLACE LOT 53



**OPT. 4' FRONT LOAD GARAGE EXT.  
ELEVATION D - ROOF PLAN**

SCALE: 1/16"=1'-0" (11"X17" SHEET SIZE)  
SCALE: 1/8"=1'-0" (22"X34" SHEET SIZE)



**OPT. 3RD CAR GARAGE  
ELEVATION A - ROOF PLAN**

SCALE: 1/16"=1'-0" (11"X17" SHEET SIZE)  
SCALE: 1/8"=1'-0" (22"X34" SHEET SIZE)

## ATTIC VENT CALCULATIONS

### NOTES:

- GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL.
- ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE
- OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY TO CBC REQUIREMENTS.
- PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.
- ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY.
- DASHED LINES INDICATE WALL BELOW.
- LOCATE GUTTER AND DOWNSPOUTS PER BUILDER.
- PITCHED ROOFS AS NOTED.
- TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS.
- ALL PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS. ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE.

### MAIN ROOF

|   |                            |
|---|----------------------------|
| 3438 SQ FT UNDER ROOF ATTIC                   |                            |
| 300 SQ FT / 1 SQ FT = 11.46 SQ FT VENTILATION |                            |
| RIDGE VENTS 18 SQ IN = (.125 SQ FT)           |                            |
| SOFFIT VENTS 9 SQ IN = (.0625 SQ FT)          |                            |
| BOX VENTS 50 SQ IN = (.347 SQ FT)             |                            |
| 11.46 SQ FT x 50%                             | 5.730 SQ FT OF RIDGE       |
| 11.46 SQ FT x 50%                             | 5.730 SQ FT OF SOFFIT      |
| RIDGE VENT                                    |                            |
| 5.730 SQ FT                                   | = 45.8 FEET OF RIDGE VENT  |
| 0.125 SQ FT                                   |                            |
| SOFFIT VENT                                   |                            |
| 5.730 SQ FT                                   | = 91.7 FEET OF SOFFIT VENT |
| 0.0625 SQ FT                                  |                            |
| ACTUAL RIDGE VENT PROVIDED                    | 48 FEET                    |
| ACTUAL SOFFIT VENT PROVIDED                   | 83 FEET                    |
| NUMBER OF BOX VENTS NEEDED                    | -0.7 COUNT                 |
| (REQ - ACTUAL x .347)                         | (NEGATIVE = 0)             |

## ATTIC VENT CALCULATIONS

### MAIN ROOF

|   |                            |
|---|----------------------------|
| 3622 SQ FT UNDER ROOF ATTIC                   |                            |
| 300 SQ FT / 1 SQ FT = 12.07 SQ FT VENTILATION |                            |
| RIDGE VENTS 18 SQ IN = (.125 SQ FT)           |                            |
| SOFFIT VENTS 9 SQ IN = (.0625 SQ FT)          |                            |
| BOX VENTS 50 SQ IN = (.347 SQ FT)             |                            |
| 12.07 SQ FT x 50%                             | 6.037 SQ FT OF RIDGE       |
| 12.07 SQ FT x 50%                             | 6.037 SQ FT OF SOFFIT      |
| RIDGE VENT                                    |                            |
| 6.037 SQ FT                                   | = 48.3 FEET OF RIDGE VENT  |
| 0.125 SQ FT                                   |                            |
| SOFFIT VENT                                   |                            |
| 6.037 SQ FT                                   | = 96.6 FEET OF SOFFIT VENT |
| 0.0625 SQ FT                                  |                            |
| ACTUAL RIDGE VENT PROVIDED                    | 56 FEET                    |
| ACTUAL SOFFIT VENT PROVIDED                   | 119 FEET                   |
| NUMBER OF BOX VENTS NEEDED                    | -2.7 COUNT                 |
| (REQ - ACTUAL x .347)                         | (NEGATIVE = 0)             |

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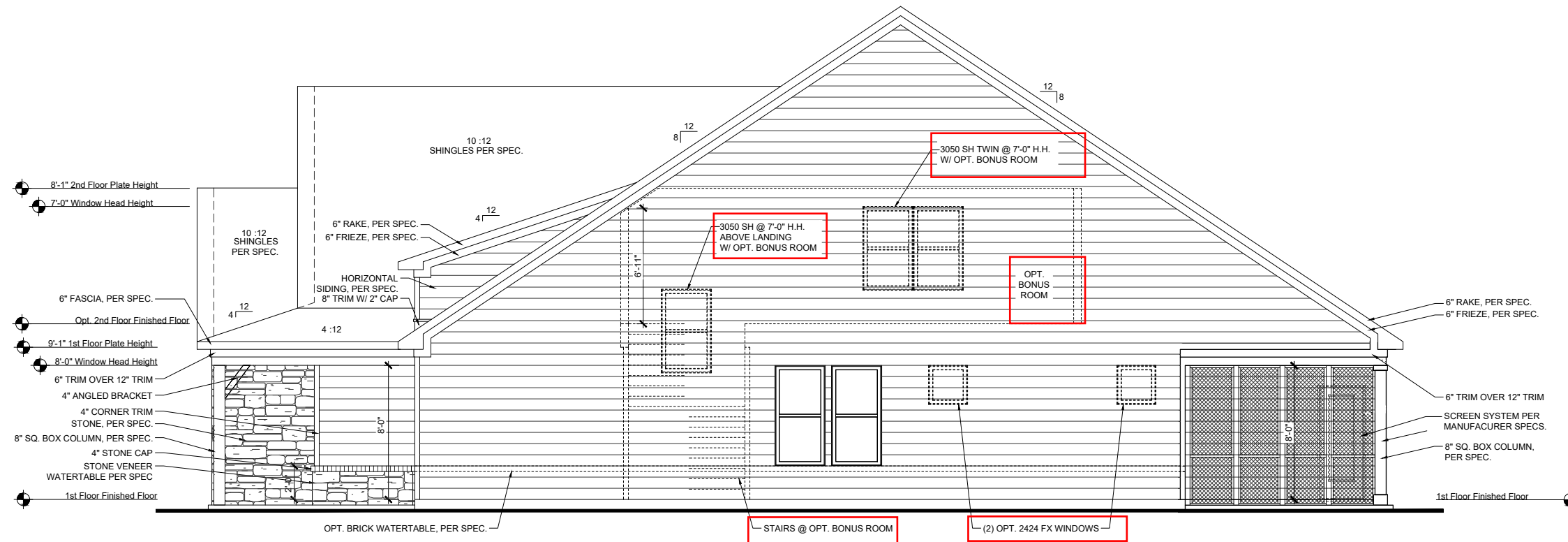
1/8" = 1'-0"

RELEASE DATE: 06-15-2021  
PROJECT NUMBER: ---  
OPTION NO.:

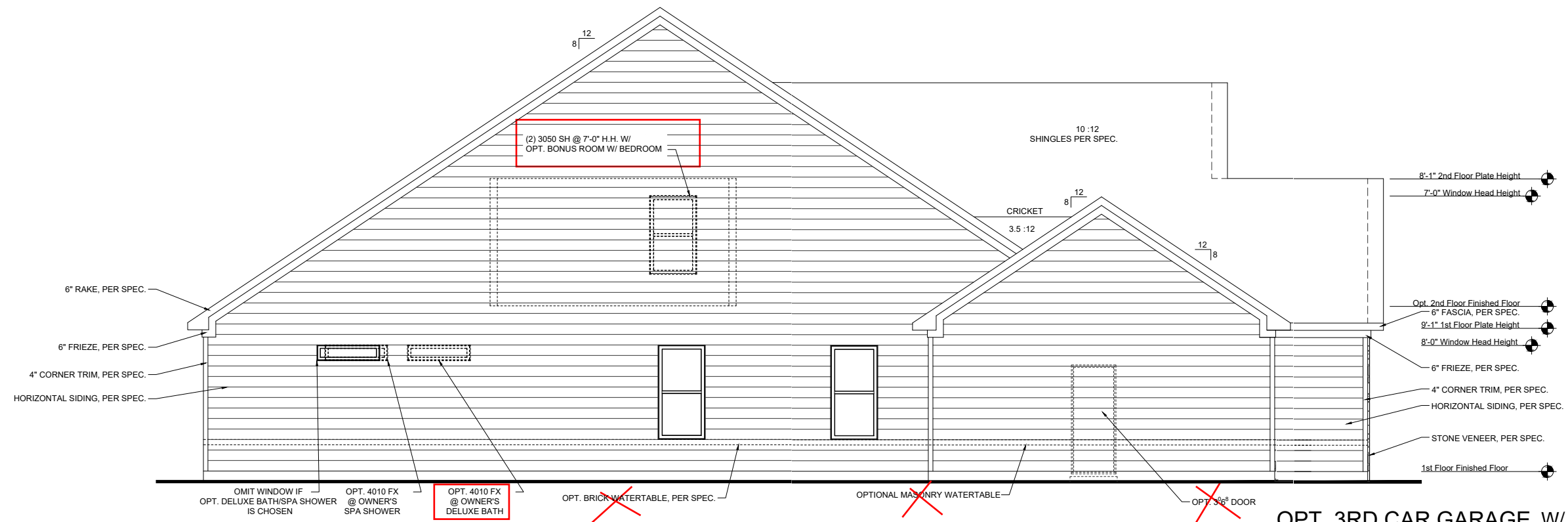
MODEL: **MAGNOLIA**  
DRAWING TITLE: **PLAN OPTIONS**  
OPTION DESCRIPTION: **ROOF PLAN**

SHEET NO.: **O-3.1D**

# PRINCE PLACE LOT 53



**RIGHT ELEVATION - 'D'**  
 SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
 SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)



**OPT. 3RD CAR GARAGE W/  
 OPT. 4' FRONT LOAD GARAGE EXT.  
 LEFT ELEVATION - 'D'**  
 SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
 SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

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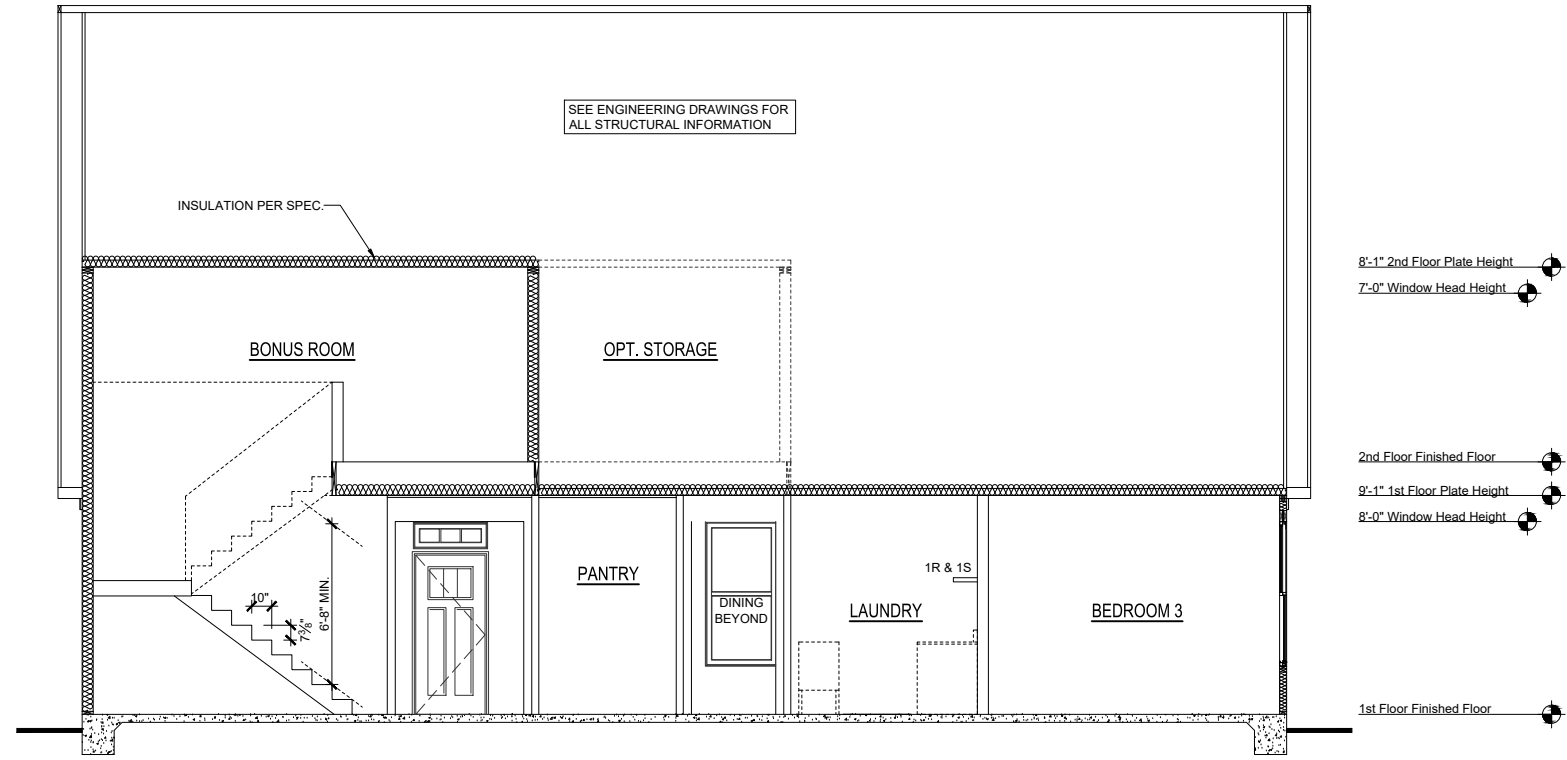


1/8" = 1'-0"

RELEASE DATE  
 06-15-2021  
 PROJECT NUMBER  
 OPTION NO.

MODEL  
**MAGNOLIA**  
 DRAWING TITLE  
**SIDE ELEVATIONS**  
 OPTION DESCRIPTION  
**ELEVATION - D**

SHEET NO.  
**A-2.1D**



SEE ENGINEERING DRAWINGS FOR ALL STRUCTURAL INFORMATION

INSULATION PER SPEC.

BONUS ROOM

OPT. STORAGE

PANTRY

DINING BEYOND

LAUNDRY

1R & 1S

BEDROOM 3

8'-1" 2nd Floor Plate Height  
 7'-0" Window Head Height  
 2nd Floor Finished Floor  
 9'-1" 1st Floor Plate Height  
 8'-0" Window Head Height  
 1st Floor Finished Floor

**SECTION - A @ OPT. 2ND FLOOR BONUS ROOM**

SCALE: 1/8"=1'-0" (11"X17" SHEET SIZE)  
 SCALE: 1/4"=1'-0" (22"X34" SHEET SIZE)

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**DAVIDSON**  
 HOMES

1/8" = 1'-0"

|                |            |
|----------------|------------|
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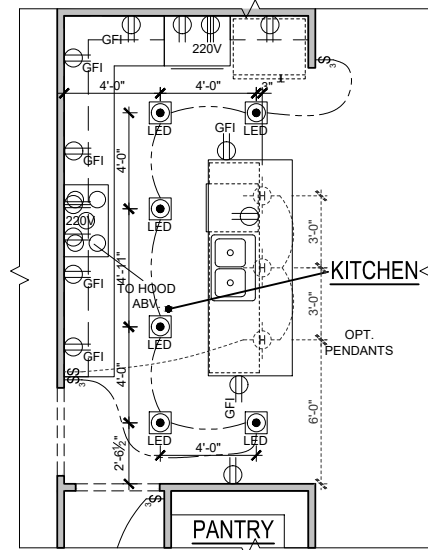
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| MODEL              | <b>MAGNOLIA</b>        |
| DRAWING TITLE      | <b>SECTION</b>         |
| OPTION DESCRIPTION | OPT. BONUS ROOM & BSMT |

SHEET NO.  
**O-5.5**

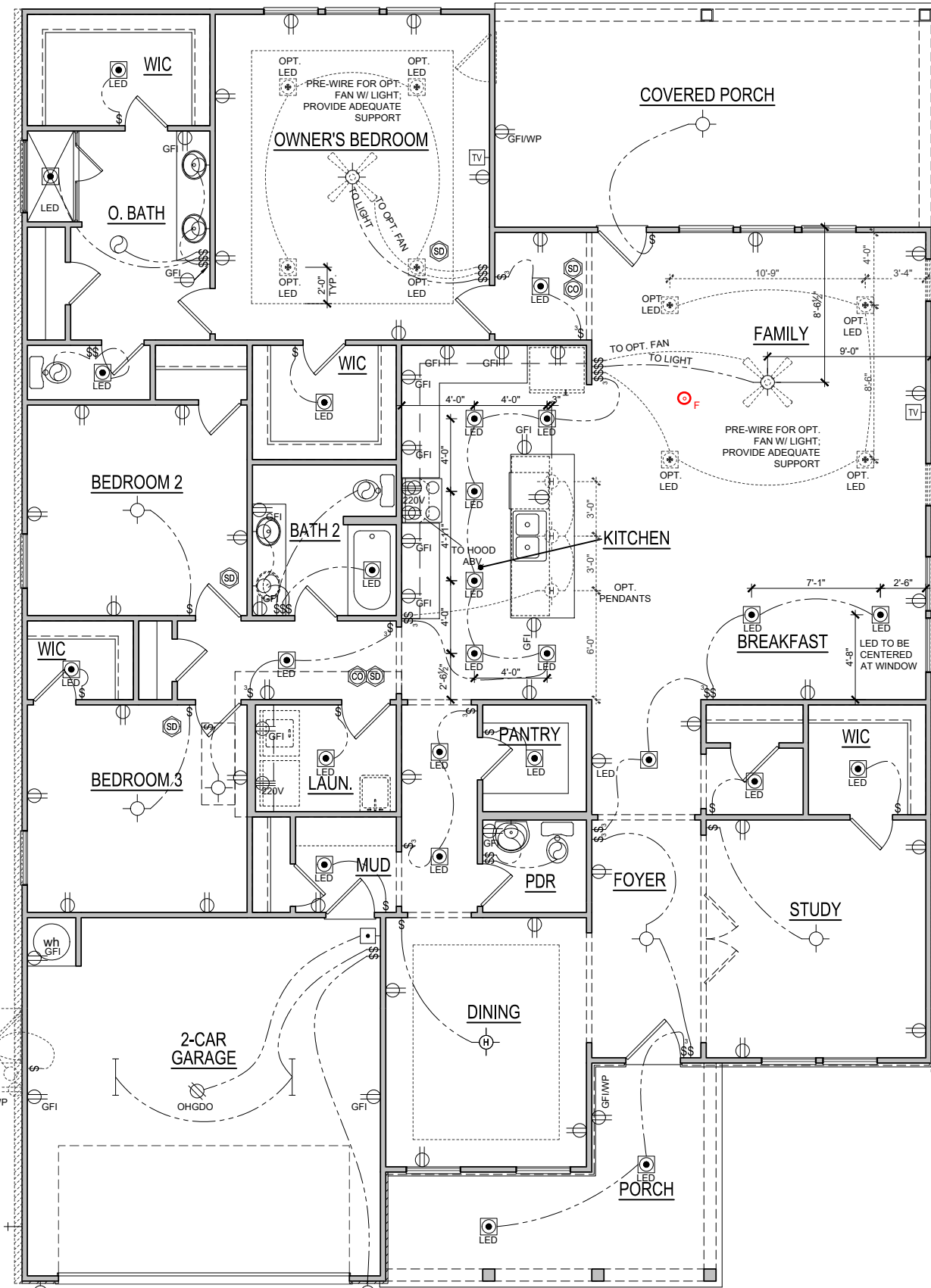
# PRINCE PLACE LOT 53

NOTE; PROPANE TANK TO BE SET 5' FROM VENTS 10' FROM IGNITION

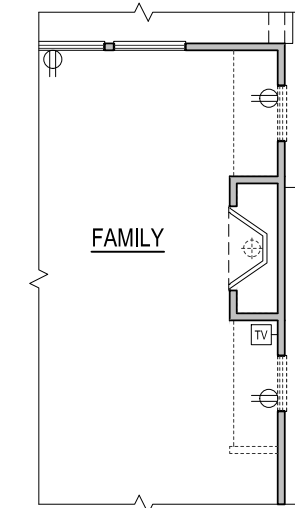
PROPANE TANK



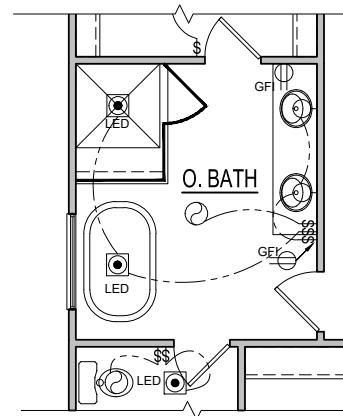
OPT. GOURMET KITCHEN  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)



ELEVATION - D  
FIRST FLOOR ELECTRICAL PLAN  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



OPT. FIREPLACE  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



OPT. DELUXE BATH  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)

NOTE:  
EXACT LOCATION OF FLOOR RECEPTACLE @ FAMILY ROOM TO BE DETERMINED AT PRE-CON MEETING

## ELECTRICAL KEY

- CEILING RECEP.
- DUPLEX RECEP.
- SPLIT SWITCHED RECEP.
- FLOOR RECEP
- QUADPLEX RECEP
- GROUND FAULT RECEP
- WEATHER PROOF RECEP
- 220v RECEP
- EXHAUST FAN
- EXHAUST FAN / LIGHT
- EXHAUST FAN / HEAT LIGHT
- LED CAN
- VAPOR PROTECTED LIGHT
- CEILING LIGHT
- HANGING CEILING LIGHT
- WALL LIGHT
- WALL SCONCE LIGHT
- SINGLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- DIMMER SWITCH
- CABLE T.V. JACK
- BUTTON
- PHONE JACK
- DIRECT WIRE
- SECURITY SYSTEM PHONE JACK
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- ELECTRICAL PANEL
- DISCONNECT SWITCH
- ELECTRIC METER
- 1 TUBE FLUORESCENT
- 2 TUBE FLUORESCENT
- FLOOD LIGHT
- CHIMES
- CEILING FAN
- CEILING FAN W/ LIGHT

REVISION NUMBER

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HOMES

1/8" = 1'-0"

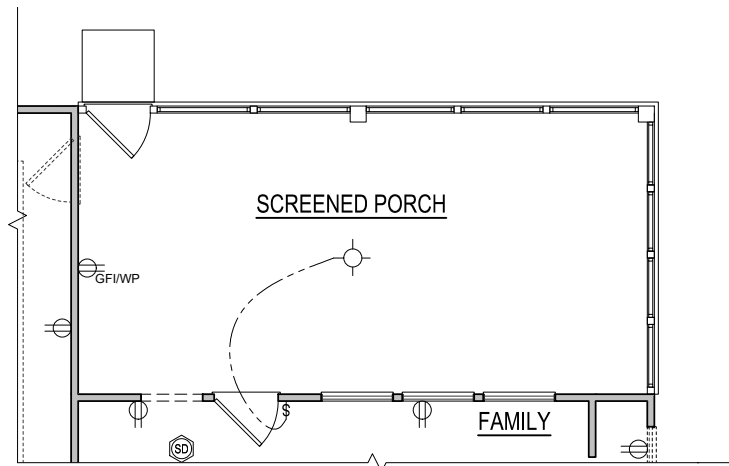
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| OPTION NO.     |            |

|                    |                      |
|--------------------|----------------------|
| MODEL              | MAGNOLIA             |
| DRAWING TITLE      | 1ST FLOOR ELEC. PLAN |
| OPTION DESCRIPTION | ELEVATION - D        |

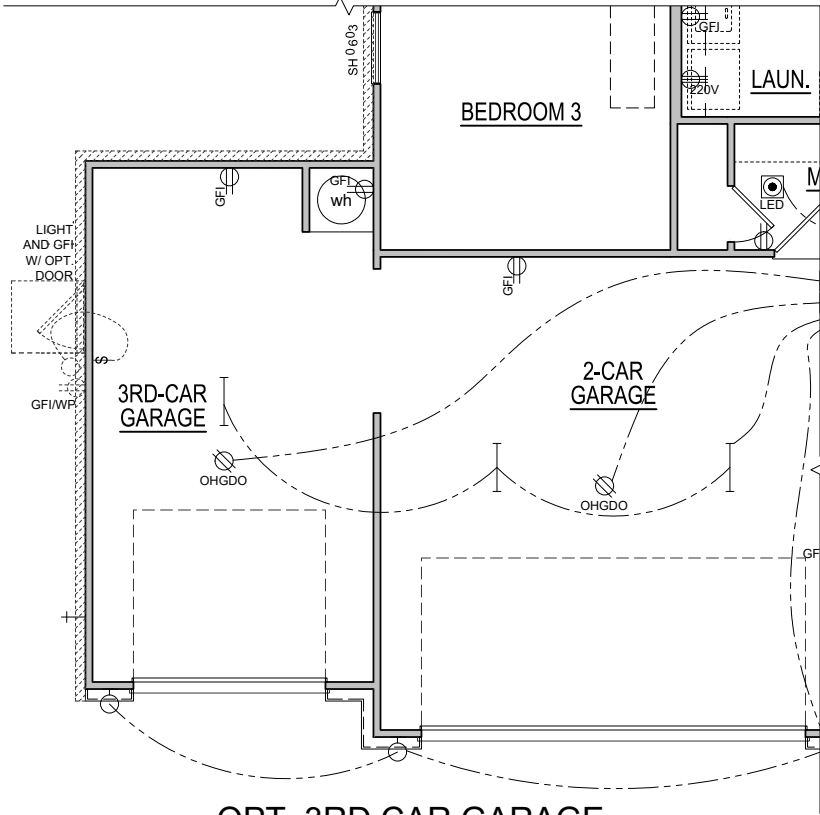
SHEET NO.  
**E-1.0D**



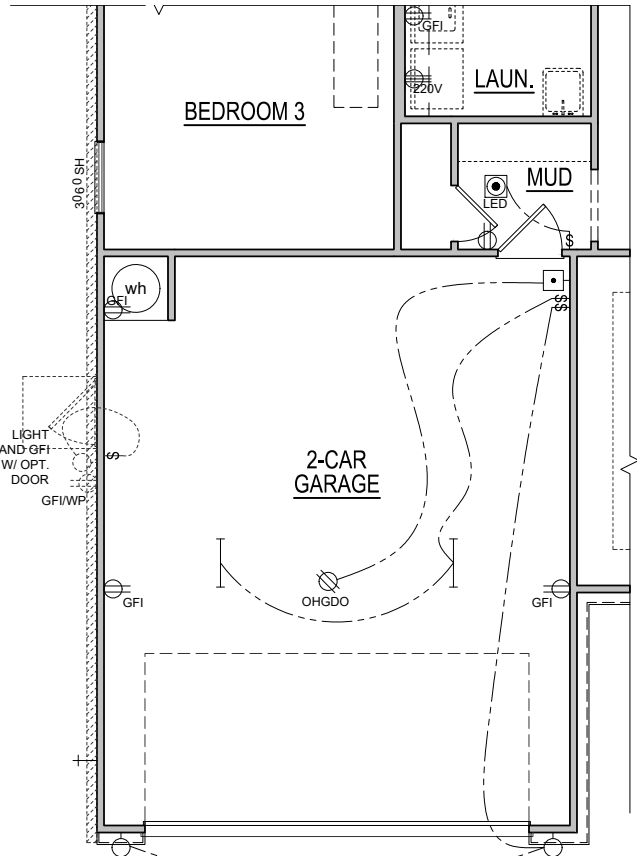
# PRINCE PLACE LOT 53



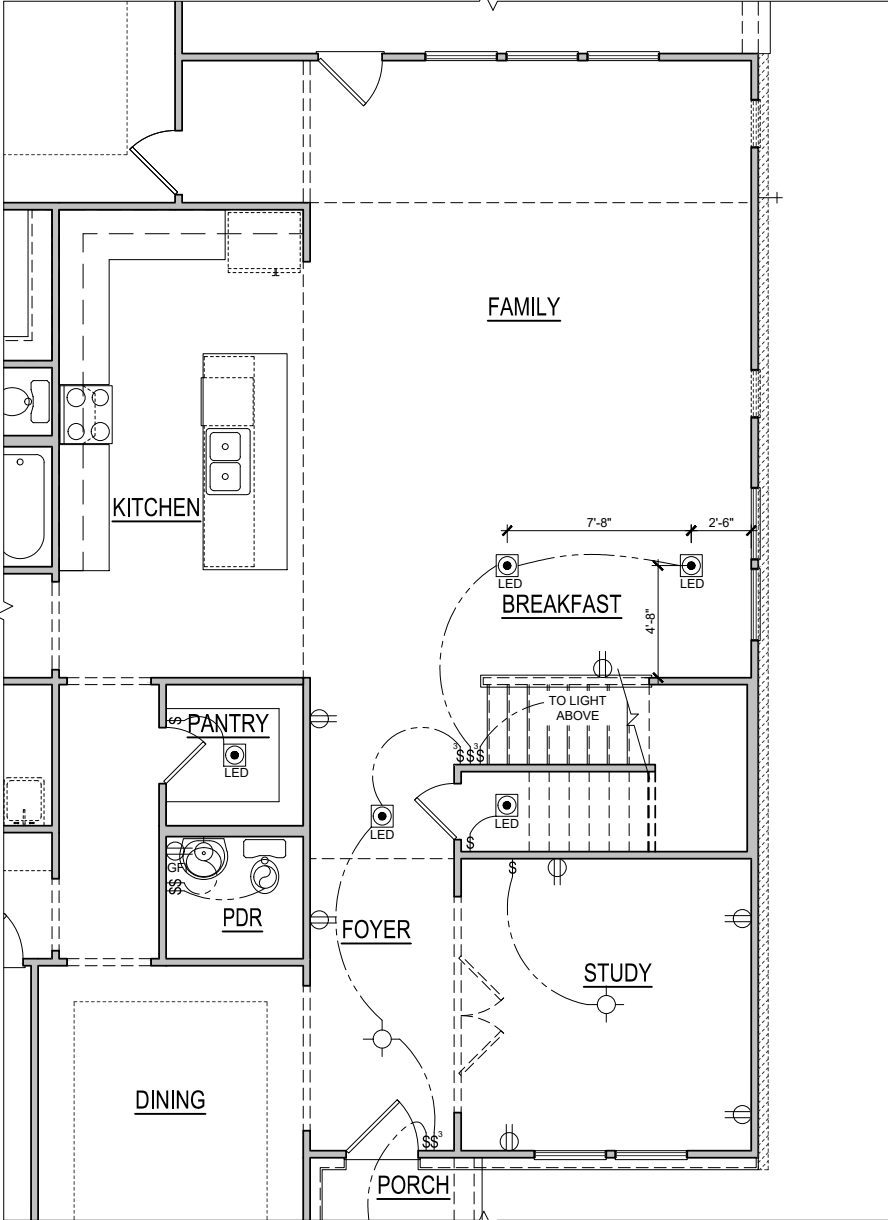
**ELECTRICAL PLAN  
OPT. SCREENED PORCH**  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



**OPT. 3RD CAR GARAGE  
1st FLOOR ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



**OPT. 4' FRONT LOAD GARAGE EXT.  
1st FLOOR ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)



**STAIRS AT OPT. BONUS ROOM  
ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)

| REVISION NUMBER |
|-----------------|
|                 |
|                 |
|                 |
|                 |

**MAIN STREET DESIGN**  
Main Street Designs of Georgia, LLC  
www.MainStreetDesignsLLC.com  
3050 Royal Blvd, South, Suite 135  
Alpharetta, GA 30022  
O. (404) 996-5722

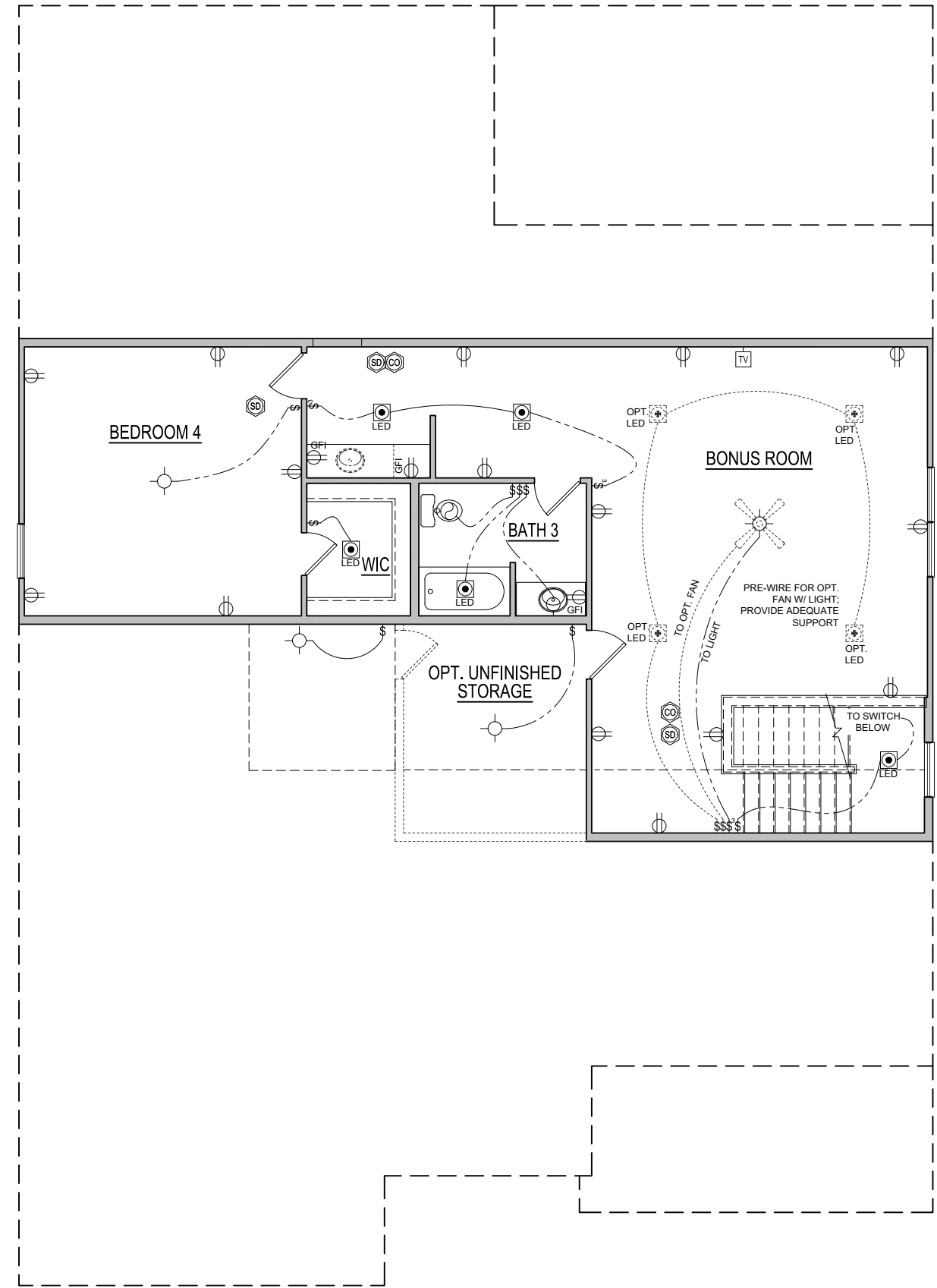


|                |            |
|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER |            |
| OPTION NO.     |            |

|                    |              |
|--------------------|--------------|
| MODEL              | MAGNOLIA     |
| DRAWING TITLE      | PLAN OPTIONS |
| OPTION DESCRIPTION | BONUS ROOM   |

SHEET NO.  
**E-11 D**

# PRINCE PLACE LOT 53



**OPT. BONUS ROOM W/ BEDROOM  
2ND FLOOR ELECTRICAL**

SCALE: 1/8"=1'-0" (11"x17" SHEET SIZE)  
SCALE: 1/4"=1'-0" (22"x34" SHEET SIZE)

REVISION NUMBER



Main Street Designs of Georgia, LLC  
www.MainStreetDesigns.LLC.com  
3050 Royal Blvd. South, Suite 135  
Alpharetta, GA 30022  
O. (404) 996-5722



1/8" = 1'-0"

|                |            |
|----------------|------------|
| RELEASE DATE   | 06-15-2021 |
| PROJECT NUMBER | -----      |
| OPTION NO.     | -----      |

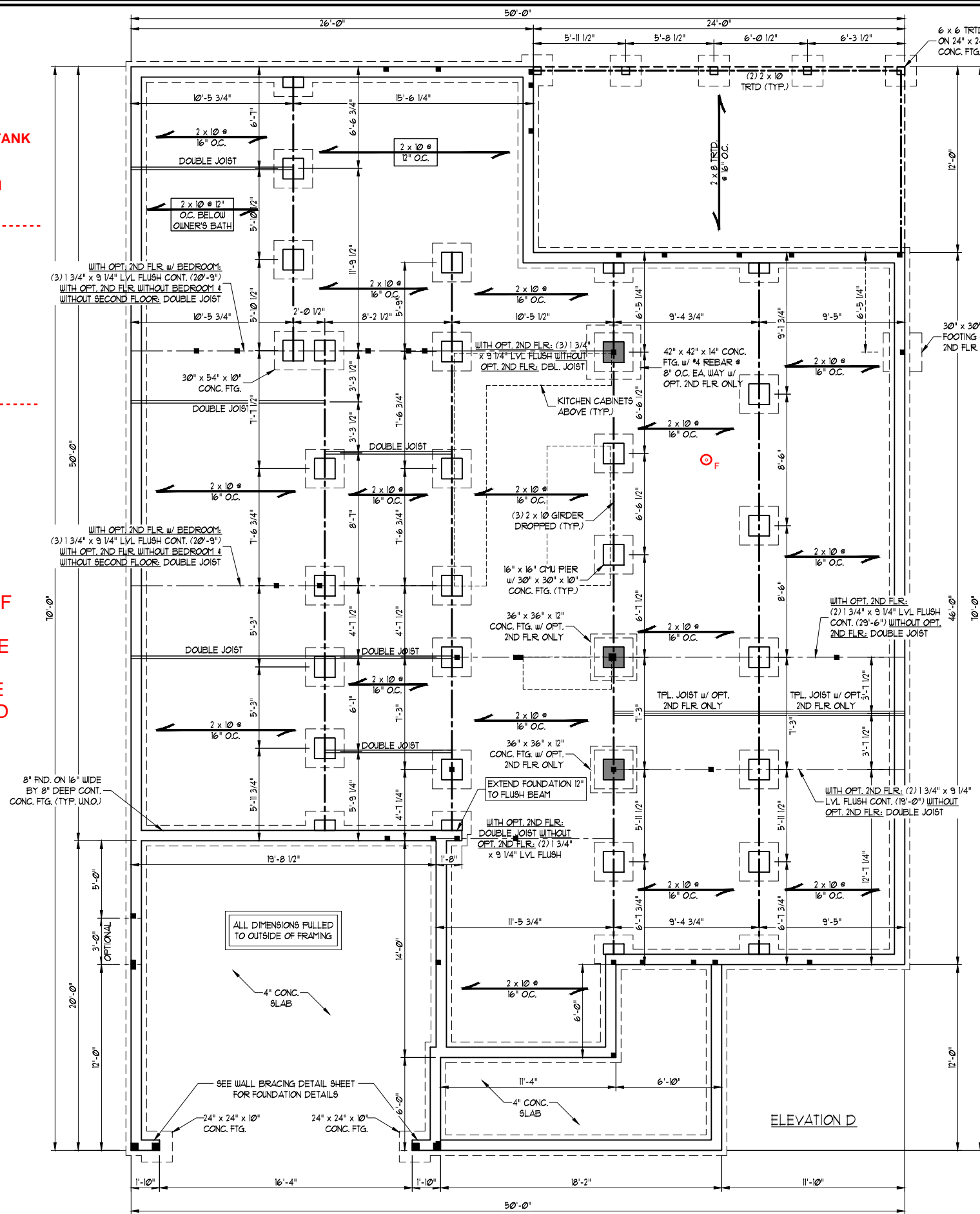
|                    |                               |
|--------------------|-------------------------------|
| MODEL              | <b>MAGNOLIA</b>               |
| DRAWING TITLE      | <b>SECOND FLOOR PLAN</b>      |
| OPTION DESCRIPTION | <b>2ND FLOOR BONUS W/ BED</b> |

SHEET NO.  
**E-2.0D**

**NOTE; PROPANE TANK TO BE SET 5' FROM VENTS 10' FROM IGNITION**

**PROPANE TANK**

**NOTE: EXACT LOCATION OF FLOOR RECEPTACLE @ FAMILY ROOM TO BE DETERMINED @ PRE-CON MEETING**



**SCALE NOTE:**  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11\"/>



4/20/2023

**J.S. THOMPSON ENGINEERING, INC.**  
333 EAST SIX FORKS ROAD, SUITE 180, RALEIGH, NC 27609  
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N.C. LICENSE NO.: C1733

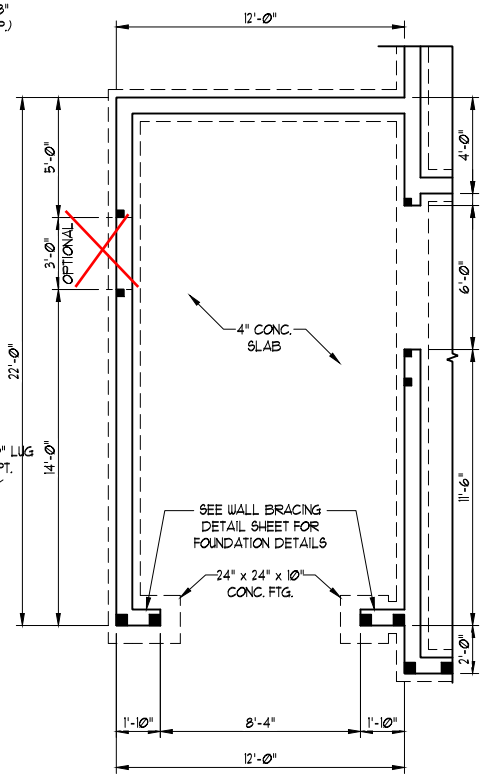
MAGNOLIA DAVIDSON HOMES

120 MPH ULTIMATE DESIGN WIND SPEED  
NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

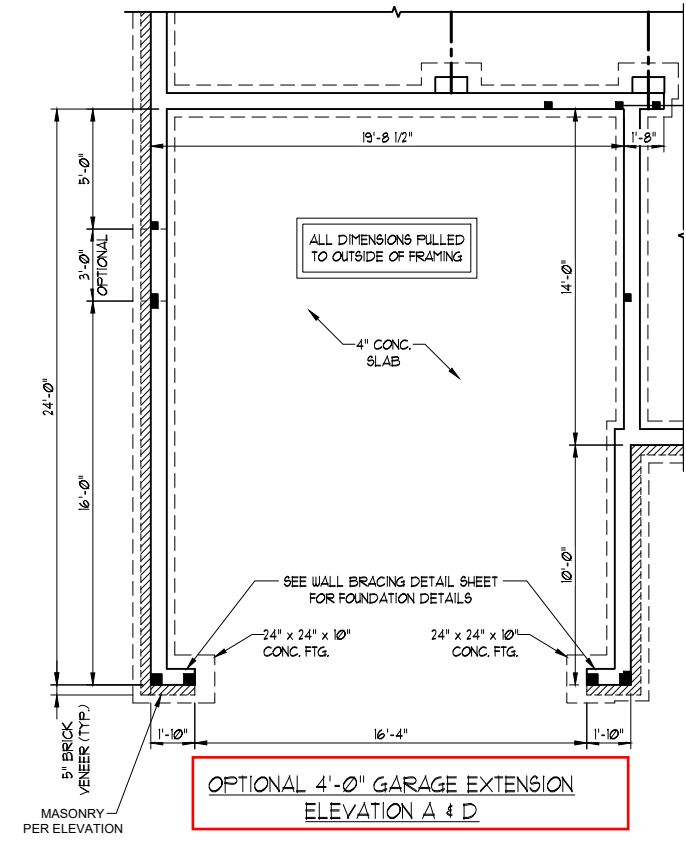
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEMS.
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. LOCATE BOLT WITH MIDDLE THIRD OF PLATE WIDTH.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
- WALL CLADDING DESIGNED FOR 15.5 PSF AND -20 PSF (+/-). INDICATE POSITIVE / NEGATIVE PRESSURE (TYP.).
- ROOF CLADDING DESIGNED FOR 44.2 PSF AND -18 PSF FOR ROOF PITCHES 1/2 TO 12/12 AND 10 PSF AND -36 PSF FOR ROOF PITCHED 22.5/12 TO 1/12.
- INSTALL 1/8" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STOREYS IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRC, 2018 EDITION.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**STRUCTURAL NOTES:**

- ALL FRAMING LUMBER TO BE #2 SFF OR #2 SYP (UNO). ALL TREATED LUMBER TO BE #2 SYP (UNO).
- INSTALL DOUBLE OR TRIPLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
- SHADED PIERS TO BE FILLED SOLID.
- INSTALL LADDER WIRE #16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.



**OPTIONAL THIRD CAR GARAGE**



**OPTIONAL 4'-0" GARAGE EXTENSION ELEVATION A & D**

**PRINCE PLACE LOT 53**

DATE: APRIL 20, 2023  
SCALE: 1/4" = 1'-0"  
DRAWN BY: MAIN STREET DESIGNS  
ENGINEERED BY: WFB

S-1.1f  
CRAWL FOUNDATION PLAN w/ OPT. 2 x 10 JOISTS

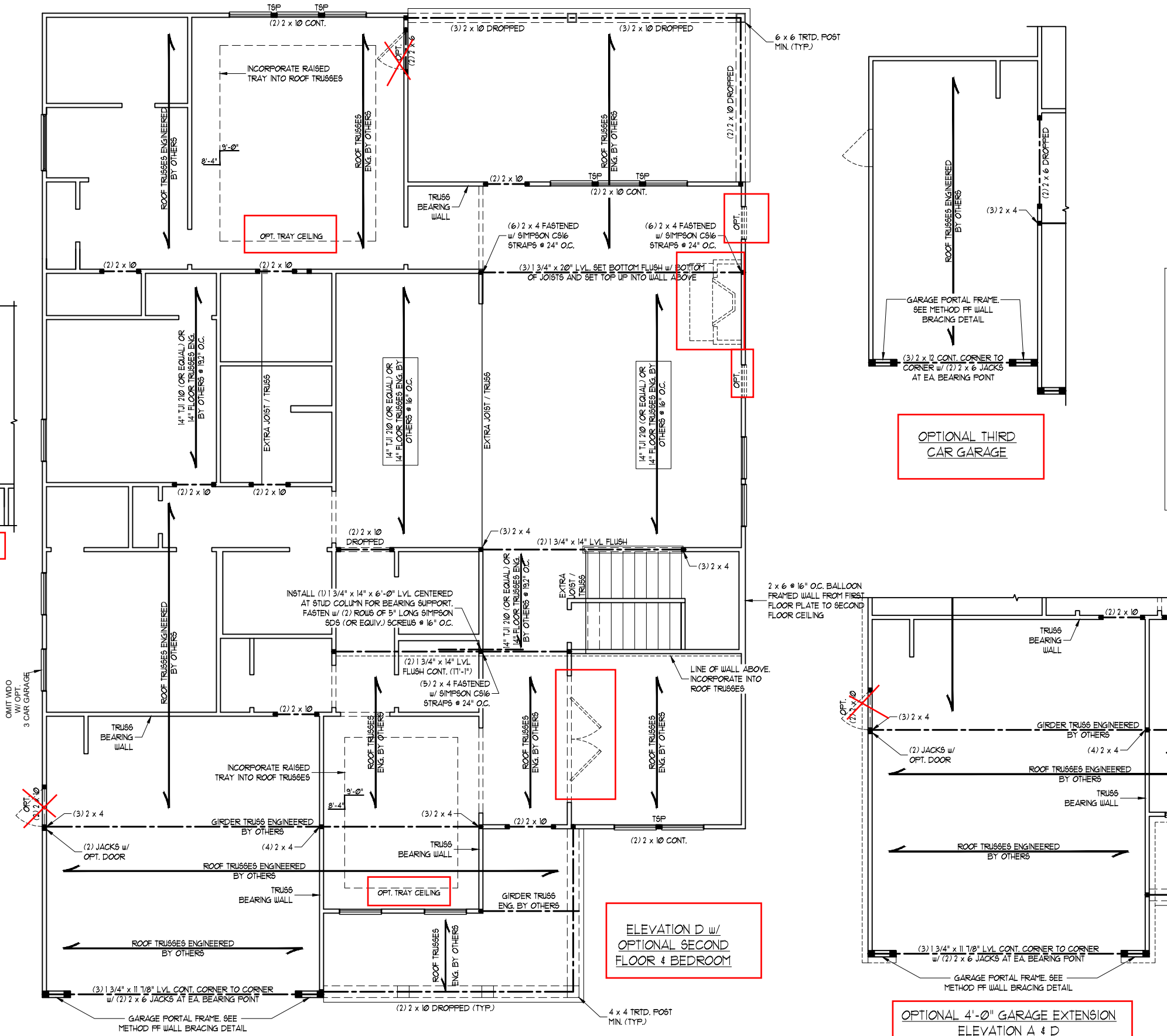
# PRINCE PLACE LOT 53

SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



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N.C. LICENSE NO.: C-1733

MAGNOLIA  
DAVIDSON HOMES



- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NRCR 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
  - SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NRCR 2018 EDITION.
  - CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
  - GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.
  - BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NRCR 2018 EDITION.
  - SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

TABLE R602.15  
MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS) |
|--------------------|---|
| UP TO 3'           | 1   |
| > 3' TO 6'         | 2   |
| > 6' TO 9'         | 3   |
| > 9' TO 12'        | 4   |
| > 12' TO 15'       | 5   |

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SPF #2 OR SYP #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO).
  - ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 SPF #2 OR SYP #2 (KILN DRIED) (UNO).
  - INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
  - WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
  - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
  - ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO).
  - FOR FIBERGLASS ALUMINUM OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

\*T&P\* INDICATES TRIPLE STUD FOCKET BETWEEN WINDOW UNITS.

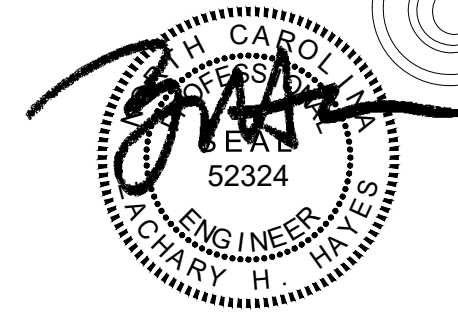
**NOTE:**  
BCI 5000s-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE STRUCTURAL PLANS

DATE: APRIL 20, 2023  
SCALE: 1/4" = 1'-0"  
DRAWN BY: MAIN STREET DESIGNS  
ENGINEERED BY: WFB

S-31  
SECOND FLOOR  
FRAMING PLAN

# PRINCE PLACE LOT 53

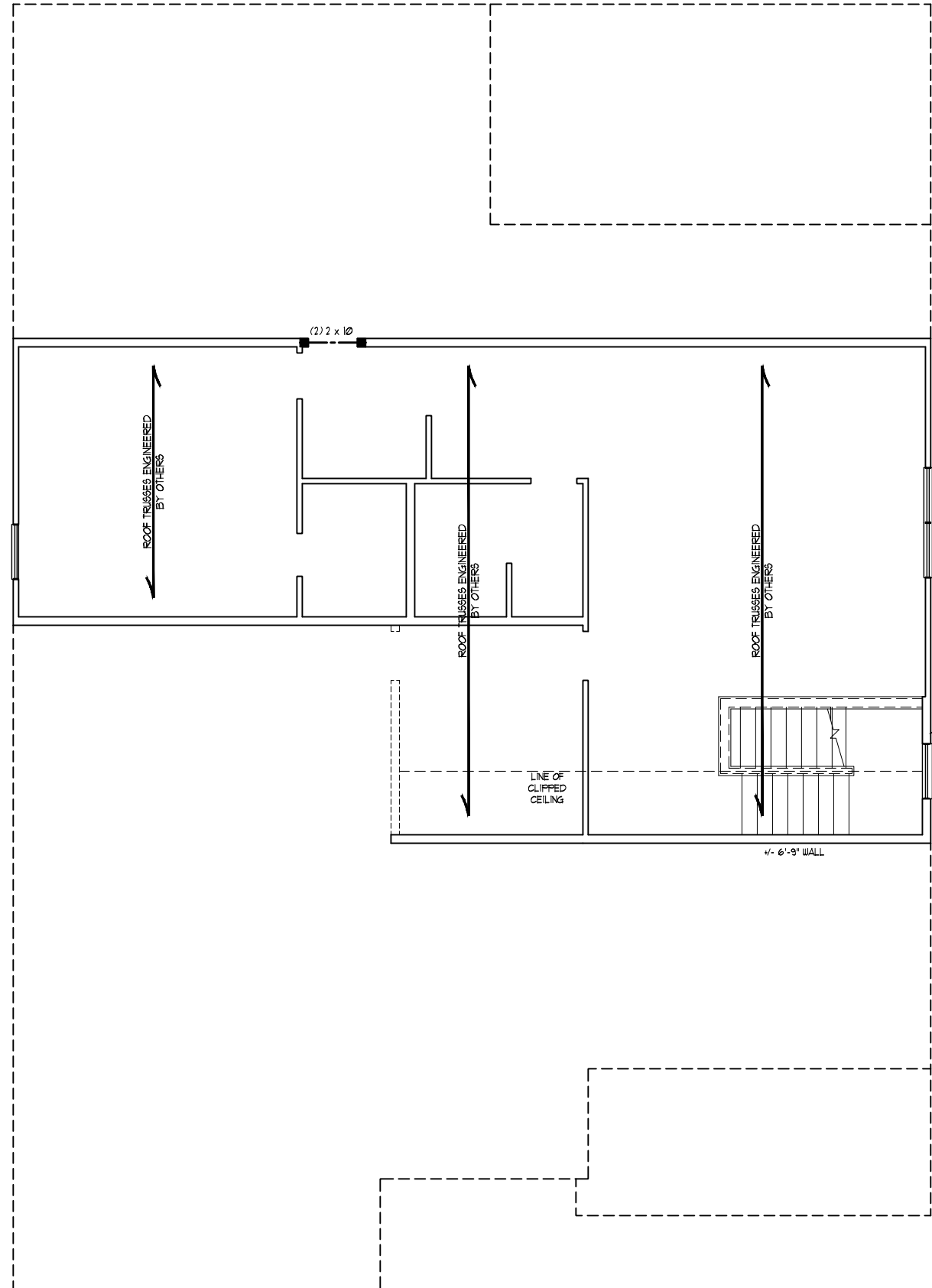
SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



4/20/2023

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N.C. LICENSE NO.: C1733

MAGNOLIA  
DAVIDSON HOMES



2 x 6 @ 16" O.C. BALLOON  
FRAMED WALL FROM BELOW.  
INSTALL (2) BALLOON  
FRAMED KING STUDS EA.  
SIDE OF WINDOW.

**BRACED WALL DESIGN NOTES:**

- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCR 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
- SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCR 2018 EDITION.
- CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCR 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

**STRUCTURAL NOTES:**

- ALL FRAMING LUMBER TO BE #2 SFF OR #2 SYP (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO).
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.15  
MINIMUM NUMBER OF FULL HEIGHT KING STUDS  
AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS) |
|--------------------|---|
| UP TO 3'           | 1   |
| > 3' TO 6'         | 2   |
| > 6' TO 9'         | 3   |
| > 9' TO 12'        | 4   |
| > 12' TO 15'       | 5   |

DATE: APRIL 20, 2023

SCALE: 1/4" = 1'-0"

DRAWN BY: MAIN STREET DESIGNS

ENGINEERED BY: WFB

S-4b  
CEILING  
FRAMING PLAN

OPTIONAL 2ND FLOOR w/ BEDROOM



SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

# PRINCE PLACE LOT 53



4/20/2023

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 333 EAST SIX FORKS ROAD, SUITE 180 RALEIGH, NC 27609  
 PHONE: (919) 7899919 FAX: (919) 7899921  
 N.C. LICENSE NO.: C1733

**STRUCTURAL NOTES:**

1. ALL FRAMING LUMBER TO BE #2 SFF OR #2 SYP (INO).
2. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
3. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
4. REFER TO SECTION R802.11 OF THE 2018 NRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
5. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG WIDTHS, AND ATTIC VENT CALCS.

MAGNOLIA  
 DAVIDSON HOMES

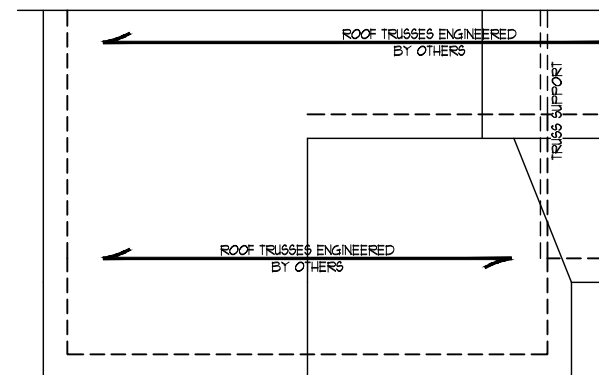
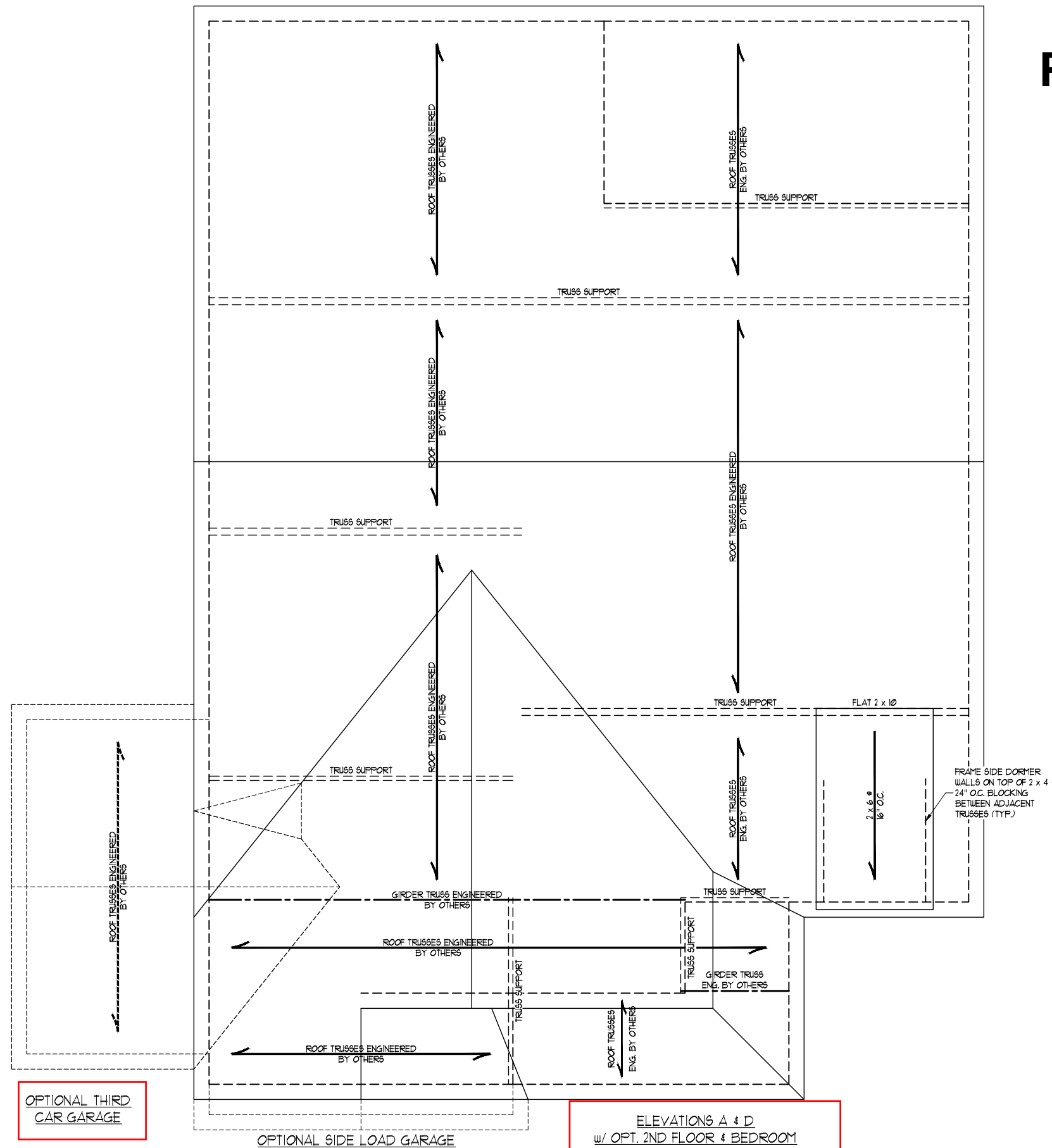
DATE: APRIL 20, 2023

SCALE: 1/4" = 1'-0"

DRAWN BY: MAIN STREET DESIGNS

ENGINEERED BY: WFB

**S-5.1c**  
 ROOF FRAMING  
 PLAN



OPT. 4' FRONT LOAD GARAGE EXT.

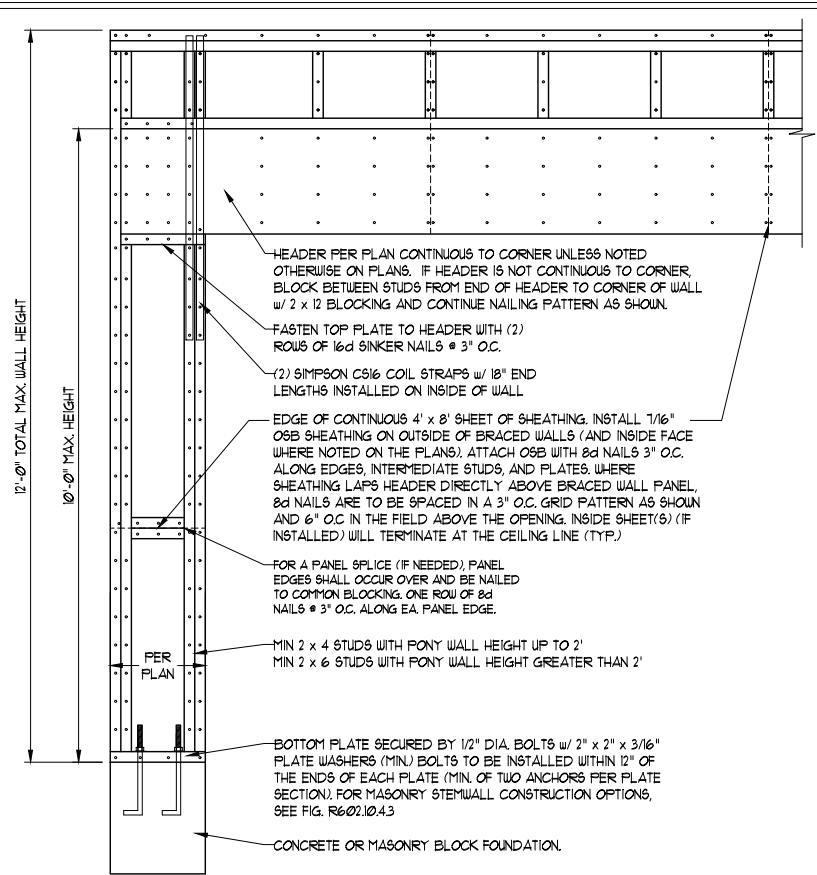
OPTIONAL THIRD CAR GARAGE

OPTIONAL SIDE LOAD GARAGE

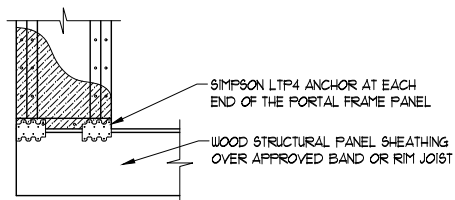
ELEVATIONS A & D  
 w/ OPT. 2ND FLOOR & BEDROOM

**GENERAL WALL BRACING NOTES:**

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NRC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NRC FOR ADDITIONAL INFORMATION AS NEEDED.
3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R102.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1.
7. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.131" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO).
8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
9. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.

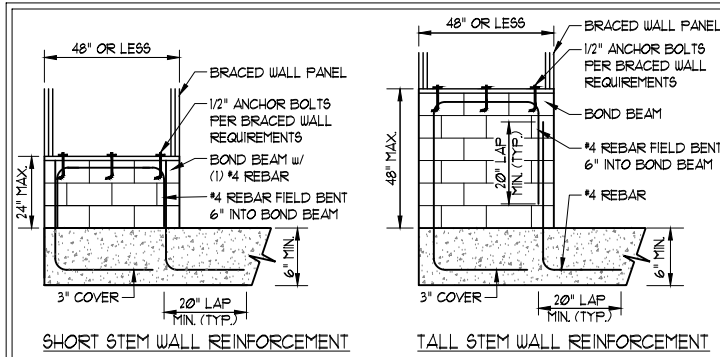


OVER CONCRETE OR MASONRY BLOCK FOUNDATION



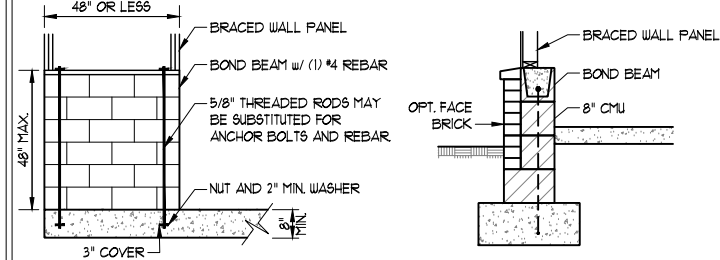
OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION  
 \* APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS  
 IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS \*

**METHOD PF-PORTAL FRAME DETAIL ①**



SHORT STEM WALL REINFORCEMENT

TALL STEM WALL REINFORCEMENT

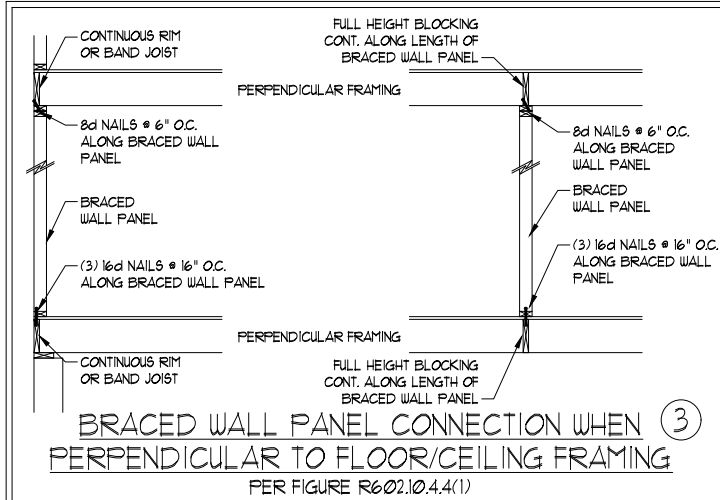


TYPICAL STEM WALL SECTION

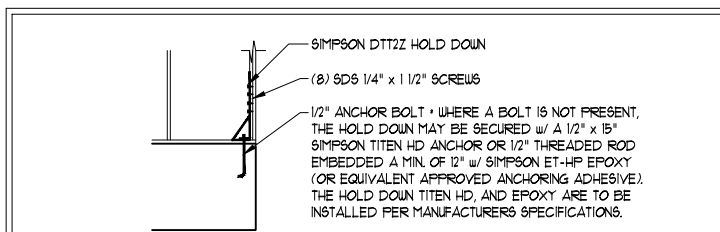
RODS MAY BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM WITH A MINIMUM TENSILE CAPACITY OF 3150 LBS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECS.  
 OPTIONAL STEM WALL REINFORCEMENT

NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS

**MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS ②**  
 PER FIGURE R602.10.4.3

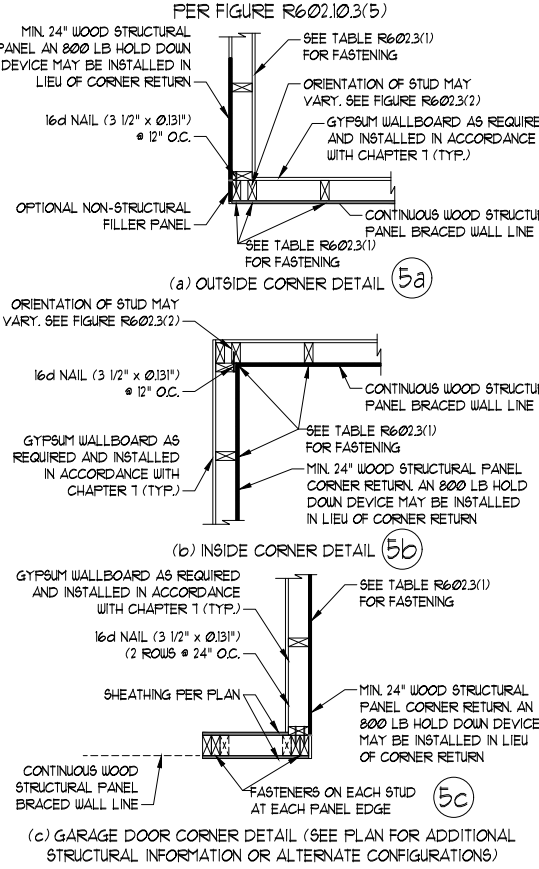


**BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING ③**  
 PER FIGURE R602.10.4.4(1)

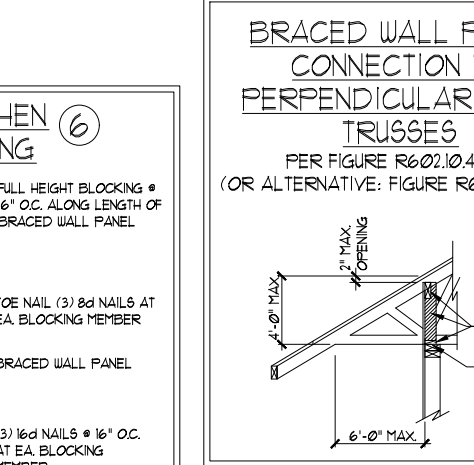
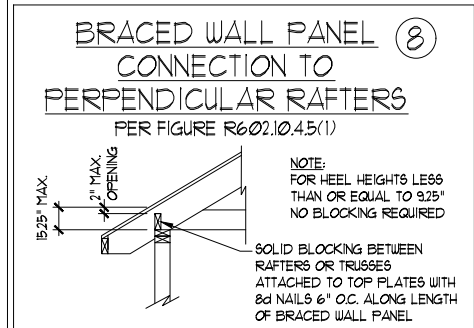
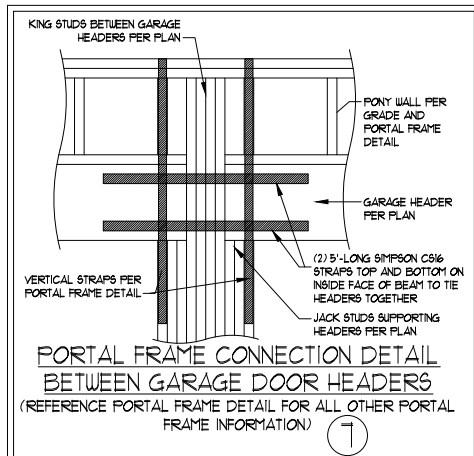


**HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB ④**  
 \* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

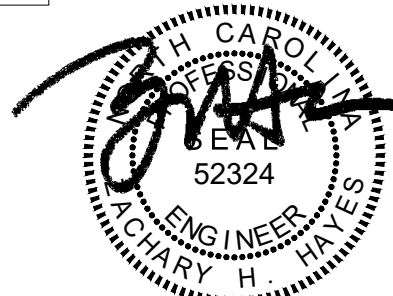
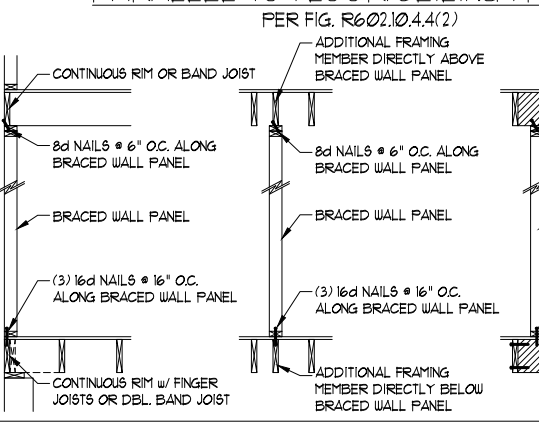
**TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING ⑤**



SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥**



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**J.S. THOMPSON ENGINEERING, INC**  
 333 EAST SIX FORKS ROAD, SUITE 180, RALEIGH, NC 27609  
 PHONE: (919) 789-9919 FAX: (919) 789-9921  
 N.C. LICENSE NO.: C-1733

MAGNOLIA DAVIDSON HOMES

DATE: APRIL 20, 2023  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: MAIN STREET DESIGNS  
 ENGINEERED BY: WFB

D-4 WALL BRACING NOTES AND DETAILS

4/20/2023

**GENERAL NOTES**

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 - R301.7)

| DESIGN CRITERIA:               | LIVE LOAD (PSF)                                   | DEAD LOAD (PSF) | DEFLECTION (IN)                   |
|--------------------------------|---|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE     | 20  | 10              | L/240 (L/360 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE          | 10  | 10              | L/360                             |
| DECKS                          | 40  | 10              | L/360                             |
| EXTERIOR BALCONIES             | 40  | 10              | L/360                             |
| FIRE ESCAPES                   | 40  | 10              | L/360                             |
| HANDRAILS/GUARDRAILS           | 200 LB OR 50 (PLF)                                | 10              | L/360                             |
| PASSENGER VEHICLE GARAGE       | 50  | 10              | L/360                             |
| ROOMS OTHER THAN SLEEPING ROOM | 40  | 10              | L/360                             |
| SLEEPING ROOMS                 | 30  | 10              | L/360                             |
| STAIRS                         | 40  | 10              | L/360                             |
| WIND LOAD                      | (BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE) |                 |                                   |
| GROUND SNOW LOAD: Pg           | 20 (PSF)  |                 |                                   |

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD

- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.16 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

**FOOTING AND FOUNDATION NOTES**

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A105. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(1), R404.1(2), R404.1(3), OR R404.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

**FRAMING NOTES**

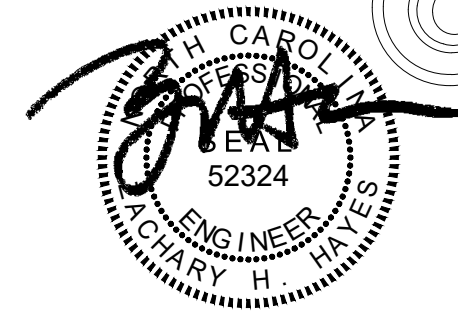
- ALL FRAMING LUMBER SHALL BE #2 SPF (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) OR #2 SYP (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) MINIMUM UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS
 

|                                |                                |
|--------------------------------|--------------------------------|
| A. W AND WT SHAPES:            | ASTM A992                      |
| B. CHANNELS AND ANGLES:        | ASTM A36                       |
| C. PLATES AND BARS:            | ASTM A36                       |
| D. HOLLOW STRUCTURAL SECTIONS: | ASTM A500 GRADE B              |
| E. STEEL PIPE:                 | ASTM A53, GRADE B, TYPE E OR S |
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):
 

|                            |  |
|----------------------------|--|
| A. WOOD FRAMING            | (2) 1/2" DIA. x 4" LONG LAG SCREWS               |
| B. CONCRETE                | (2) 1/2" DIA. x 4" WEDGE ANCHORS                 |
| C. MASONRY (FULLY GROUTED) | (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS |

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER. ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UNO). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.2.1 OF THE NCRC, 2018 EDITION.
- FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO). POSTS MAY BE SECURED USING ONE SIMPSON H6 OR L7912 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



4/20/2023

**J.S. THOMPSON**  
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 N.C. LICENSE NO.: C-1733

MAGNOLIA  
 DAVIDSON HOMES

DATE: APRIL 20, 2023  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: MAIN STREET DESIGNS  
 ENGINEERED BY: WFB

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D-5  
 STANDARD  
 STRUCTURAL NOTES

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



DEDICATED TO QUALITY AND EXCELLENCE  
200 EMMETT ROAD  
DUNN, NORTH CAROLINA 28334  
PHONE: 910-892-8400

PROJECT: LOT 53 PRINCE PLACE

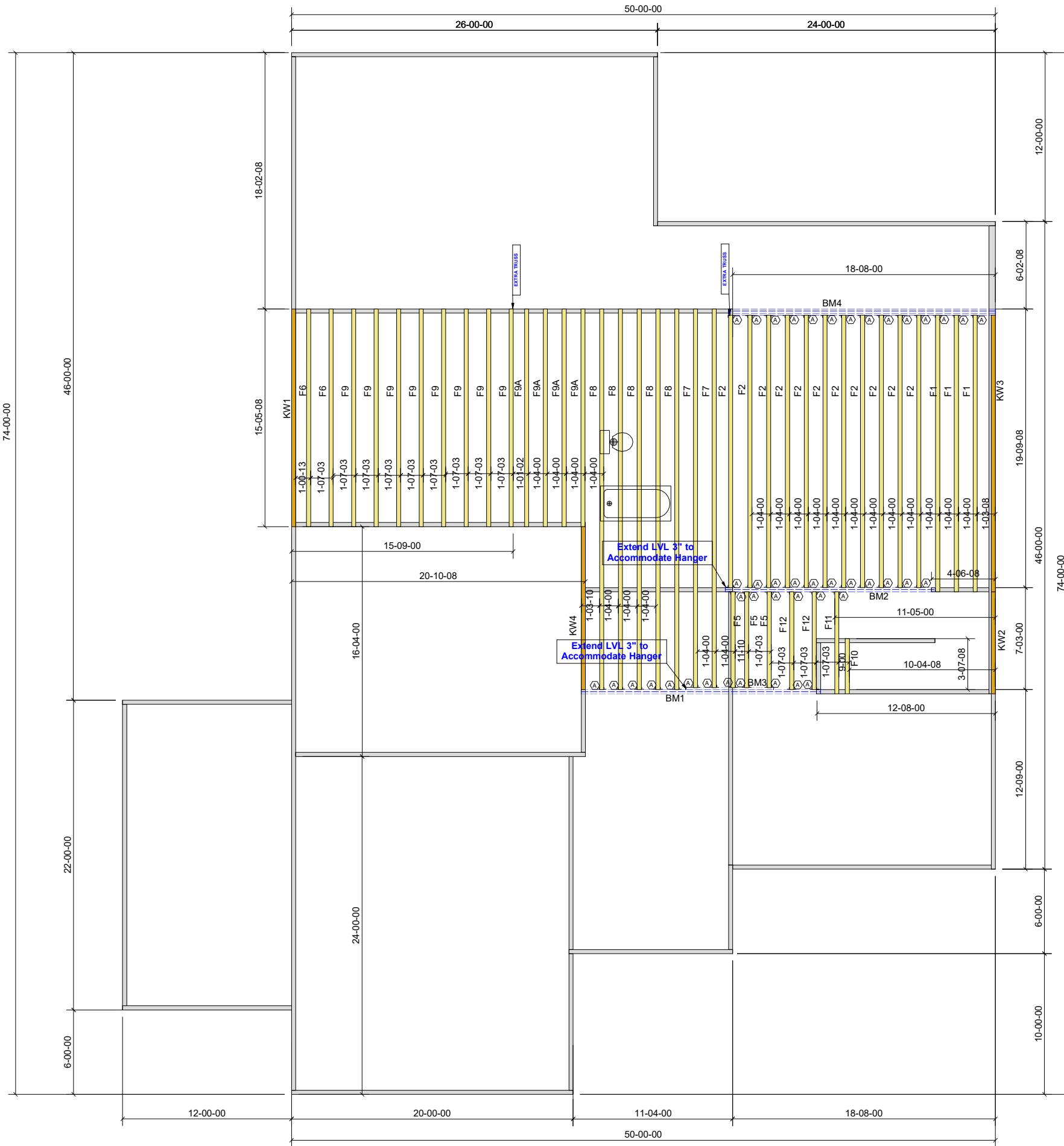
CUSTOMER: Davidson Homes

MODEL: Magnolia D w/Brdm 4 - Floor

ORDER #: 39223A      PRINT DATE: 9/11/2023      DRAWN BY: BES      SCALE: N.T.S

TOP LIVE LOAD: 40.0 lb/ft<sup>2</sup>  
TOP DEAD LOAD: 10.0 lb/ft<sup>2</sup>  
BOTTOM LIVE LOAD:  
BOTTOM DEAD LOAD: 5.0 lb/ft<sup>2</sup>

GENERAL NOTES:  
DO NOT CUT OR MODIFY TRUSSES  
TRUSSES ARE SPACED 19.2" ON CENTER UNLESS OTHERWISE NOTED  
REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.  
PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.



| HANGER LIST |        |    |
|-------------|--------|----|
| A           | LUS410 | 43 |
| B           | -      | -  |
| C           | -      | -  |

| Products |          |                            |       |         |
|----------|----------|----------------------------|-------|---------|
| PlotID   | Length   | Product                    | Plies | Net Qty |
| BM1      | 18-00-00 | 1-3/4" x 14" LVL BY OTHERS | 2     | 2       |
| BM2      | 16-00-00 | 1-3/4" x 14" LVL BY OTHERS | 2     | 2       |
| BM3      | 8-00-00  | 1-3/4" x 14" LVL BY OTHERS | 1     | 1       |
| BM4      | 20-00-00 | 1-3/4" x 20" LVL BY OTHERS | 3     | 3       |

|                        |                      |                      |
|------------------------|----------------------|----------------------|
| Crawl Level Floor Area | 1st Level Floor Area | 2nd Level Floor Area |
| 0                      | 1122.25              | 0                    |

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DEDICATED TO QUALITY AND EXCELLENCE  
200 EMMETT ROAD  
DUNN, NORTH CAROLINA 28334  
PHONE: 910-892-8400

**PROJECT:** LOT 53 PRINCE PLACE  
**CUSTOMER:** DAVIDSON HOMES  
**MODEL:** Magnolia D w/Brdm 4 - 3CarGg-Roof  
**ORDER #:** 39222A  
**PRINT DATE:** 9/11/2023  
**DRAWN BY:** BES  
**SCALE:** N.T.S

TOP LIVE LOAD: 20.0 lb/ft<sup>2</sup>

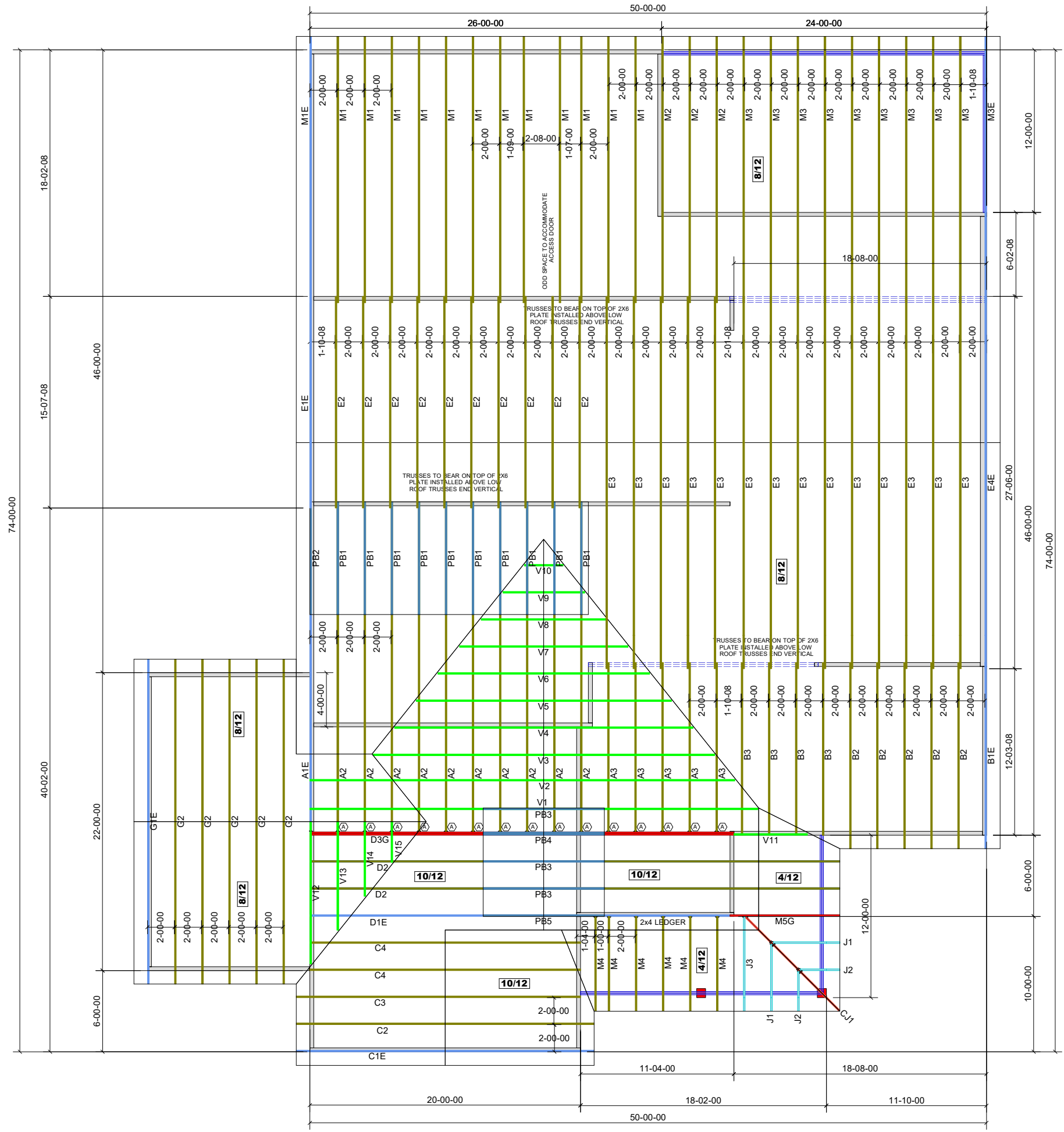
TOP DEAD LOAD: 10.0 lb/ft<sup>2</sup>

BOTTOM DEAD LOAD: 10.0 lb/ft<sup>2</sup>

WIND SPEED: 115 mph

**GENERAL NOTES:**  
DO NOT CUT OR MODIFY TRUSSES  
TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED  
REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.  
PER ANS I TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

| A | LUS26 | 15 |
|---|-------|----|
| B | -     | -  |
| C | -     | -  |



|                     |                     |
|---------------------|---------------------|
| 1st Level Roof Area | 2nd Level Roof Area |
| 4832.64             | 0                   |