Crossing at Anderson Creek 164-79 Lake Crest Drive, Spring Lake, 28390

Harnett County Created: 1/28/2021

House Plan: Havenbrooke

Elevation: A

Stone/Brick Option: #1

Foundation: Slab

Foundation Finish: 3 Sides Parged

Garage Hand: Left Garage: 2 Car Front Garage Door:(2) 8x8 Front Porch: Concrete

Roof: Truss Siding: Vinyl

Ceiling Height 1st Floor: 9' Ceiling Height 2nd Floor: 9'

Door Frame Height 1st Floor: 83" Door Frame Height 2nd Floor: 83" Windows 1st Floor: 6/0 Front Only

Windows 2nd Floor: 5/0

### **OPTIONS**

Covered Porch

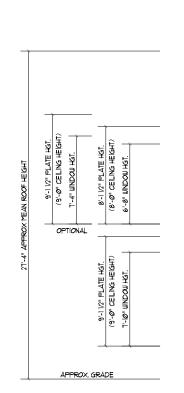
Trey Ceiling in Master Bedroom Trey Ceiling in Dining Room

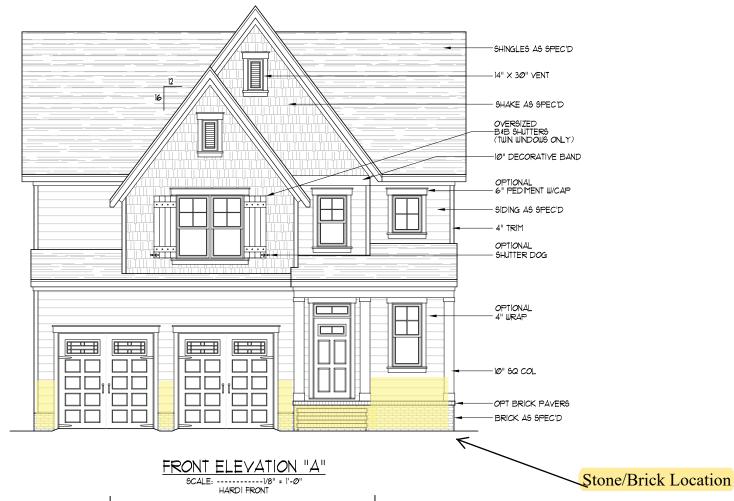
Total Heated Sq. Ft.: 2189 Total Unheated Sq. Ft.: 809

Total SQ FT: 2997

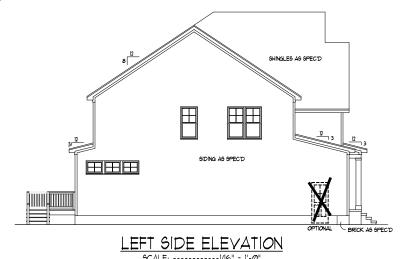
Bedrooms: 3 + Rec Room

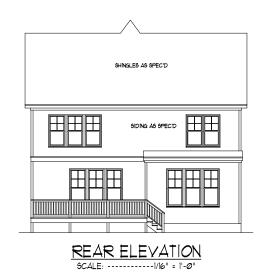
Full Bathrooms: 2 Half Bathrooms: 1

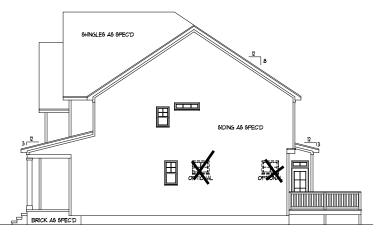




THIS PLAN CONFORMS TO THE 2018 EDITION OF THE I.R.C. / NORTH CAROLINA RESIDENTIAL CODE.

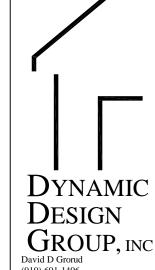






RIGHT SIDE ELEVATION





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CAPITOL PROJECT FOR: CITY HOMES

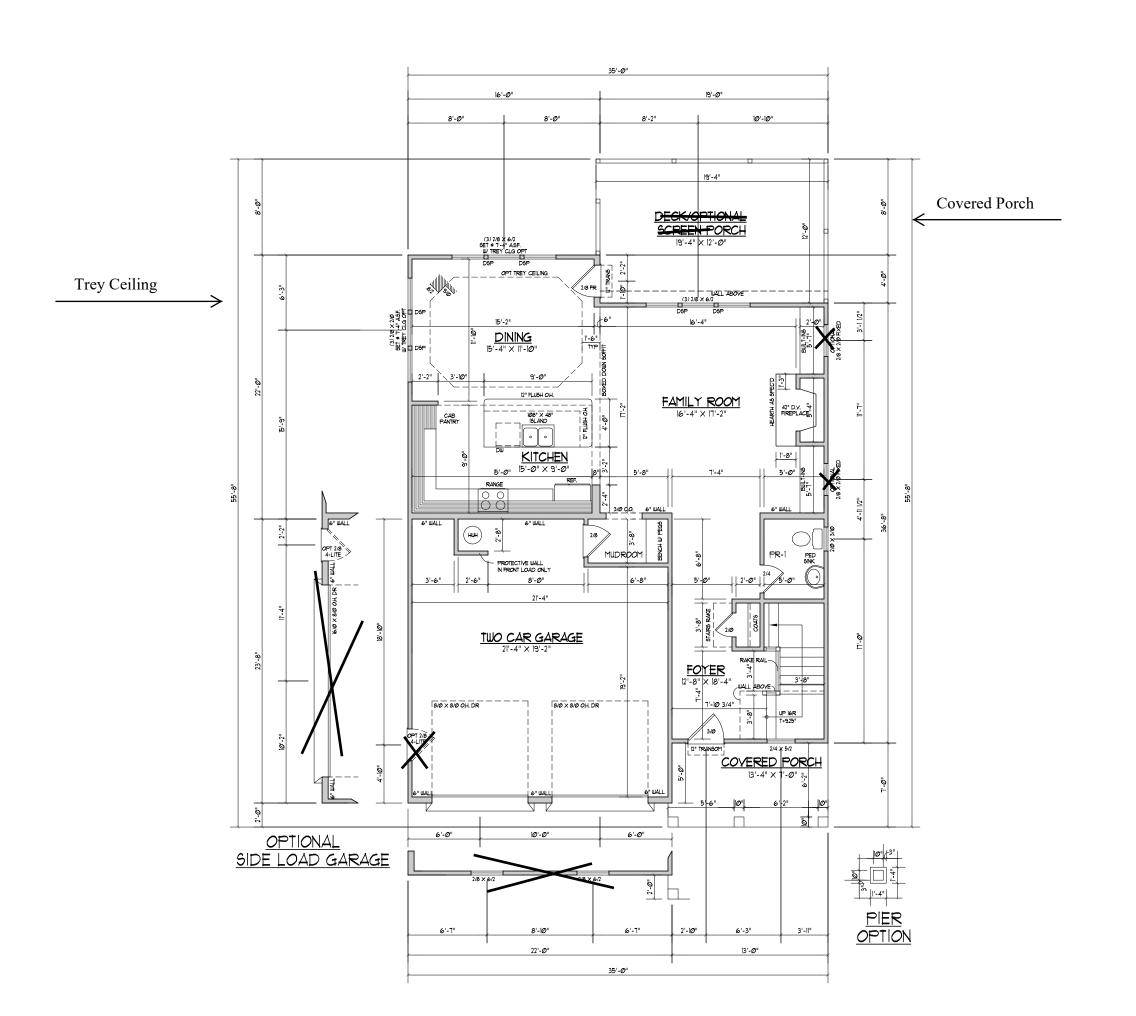
LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

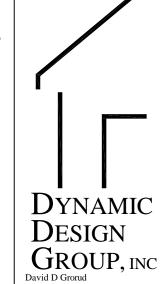
COUNTY: MULTI

3-25-20 ENBROOK

35GL







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## CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

.25-20 DATE **ENBRO**(  $\mathcal{C}$ PLAN NAME 35GL 350

90-

PLAN I.D.

**SHEET** 

FIRST FLOOR PLAN SCALE: ----- 1/8" = 1'-0"

921 HEATED SQ. FT. 486 SQ. FT. GARAGE 92 5Q. FT. COVERED PORCH 231 5Q. FT. DECK/OPT. SCREEN PORCH 125 5Q. FT. OPTIONAL BBQ DECK

#### NOTES:

- NOTEC:

  1) 9'-0" CLG, HGT, (9' 1 1/2" PLT, HGT.)

  UNLESS OTHERWISE NOTED.

  2) ALL WALLS FIGURED AT 4" WIDTHS

  3) SET WINDOWS AT 1"-10" ASF.

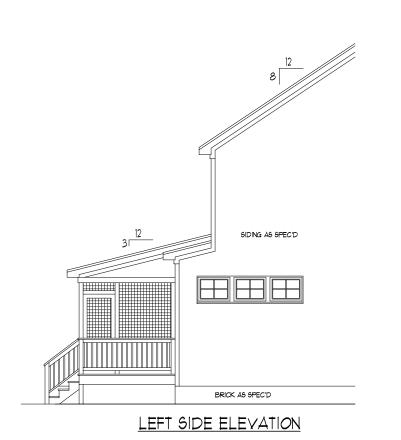
  UNLESS OTHERWISE NOTED.
- UNLESS OTHERWINE NOTED.

  4) DIMENSIONS ARE TO FRAMING
  UNLESS OTHERWISE NOTED.

  5) CONSULT WINDOW MANUFACTURER'S
  SPECS FOR EGRESS REQUIREMENTS,
  PRESSURE RATINGS, & ROUGH OPNG'S.

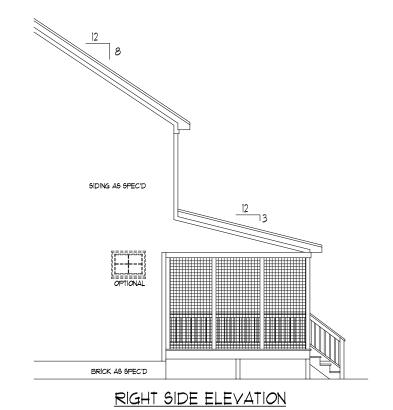
# OPT SCREEN PORCH/BBQ DECK

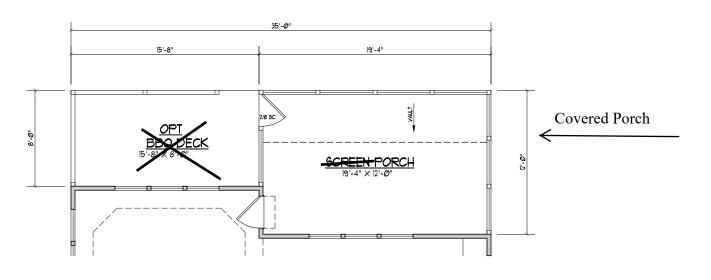




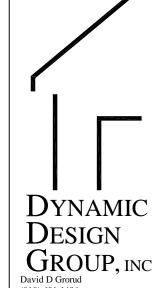


SCALE: ----- 1/8" = 1'-@"





FLOOR PLAN



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## CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

LOT: MULTI

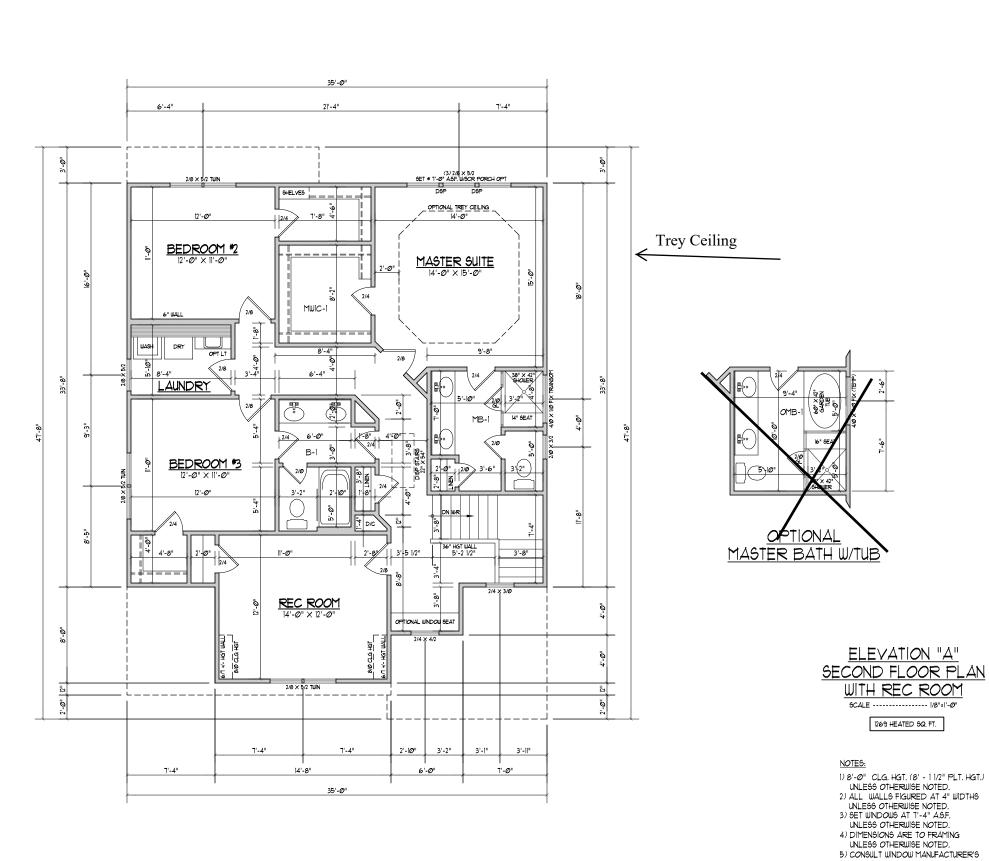
SUBDIVISION: MULTI

COUNTY: MULTI

3-25-20 DATE ENBROOK PLAN NAME 2190-35GL

-2 SCR PORCH /BBQ DECK OPTIONS **SHEET** 





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## CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI COUNTY: MULTI

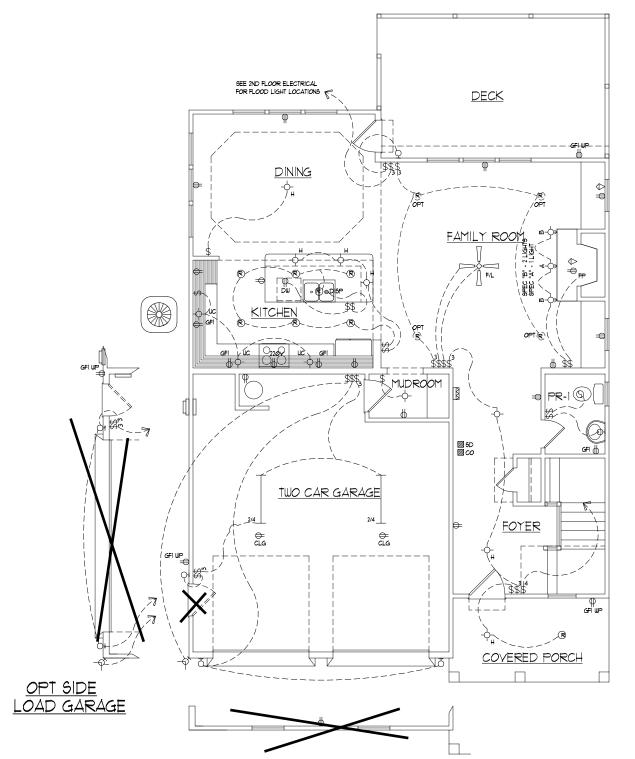
> .25-20 DATE AVENBROOK  $\mathcal{C}$

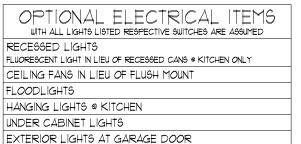
PLAN NAME -35GL 190-

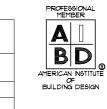
PLAN I.D.

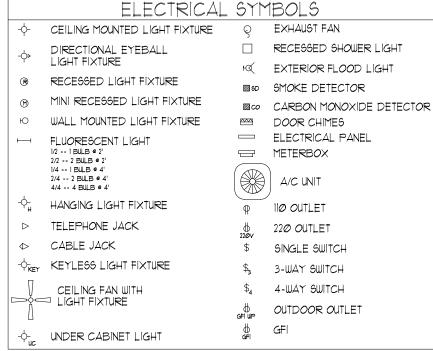
SHEET

SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPNG'S.











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CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

25-20 3

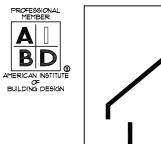
**ENBRO**( PLAN 5 3 90

PLAN I.D.

**SHEET** 

FIRST FLOOR ELECTRICAL LAYOUT





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CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

3-25-20 DATE VENBROOK

PLAN NAME 2190-35GL PLAN I.D.

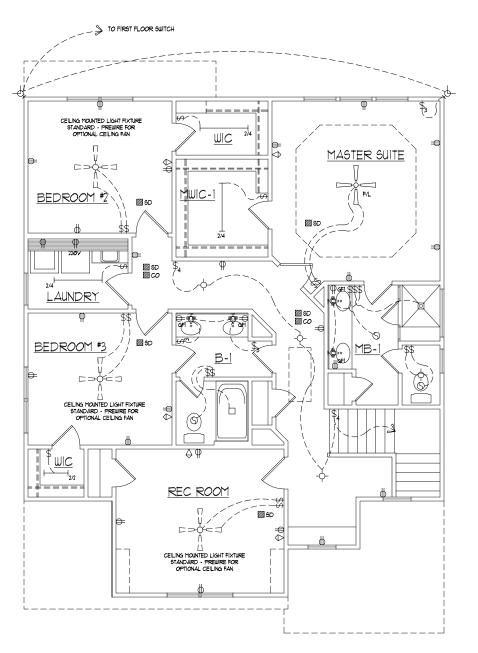
SCR PORCH /BBQ DECK OPTIONS

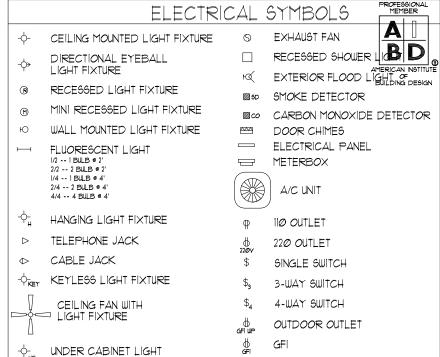
SHEET

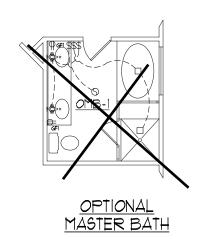
SEE 2ND FLOOR ELECTRICAL FOR FLOOD LIGHT LOCATIONS

Covered Porch

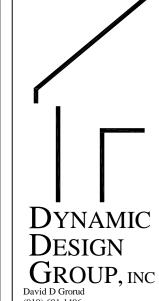
OPTIONAL SCREEN PORCH/BBQ DECK ELECTRICAL LAYOUT







ELEVATION "A" SECOND FLOOR WITH REC ROOM ELECTRICAL LAYOUT



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CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

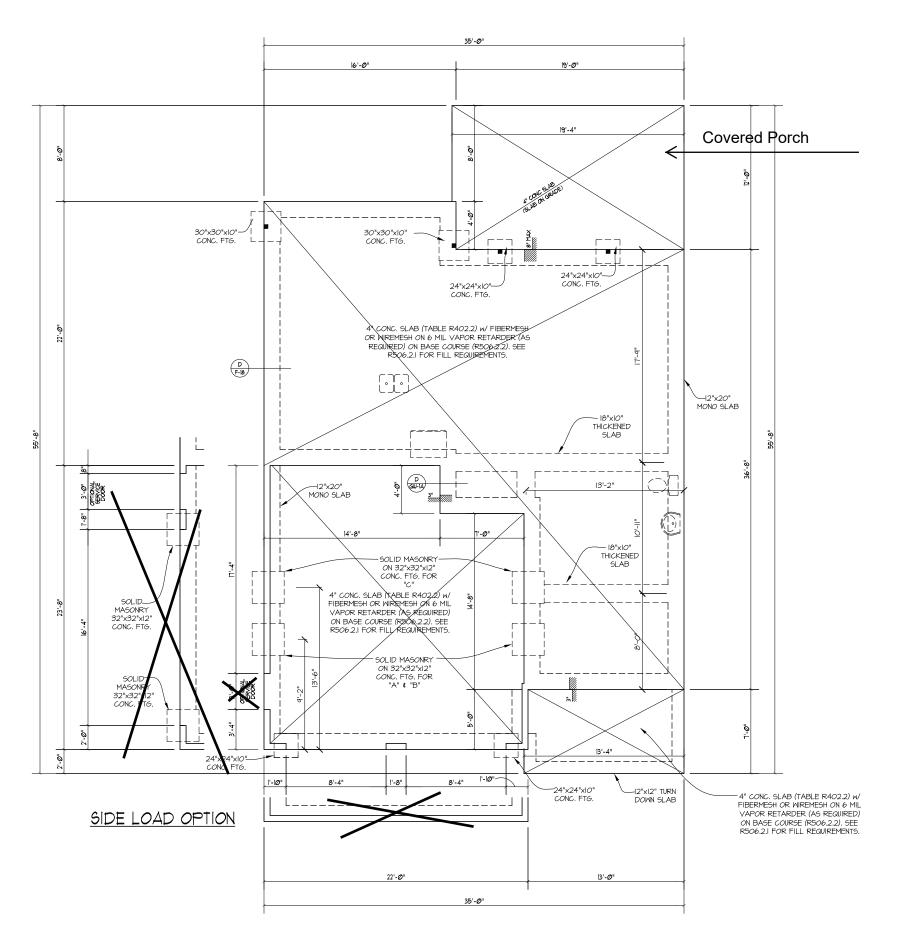
LOT: MULTI

SUBDIVISION: MULTI COUNTY: MULTI

H .25-20 DATE ENBROOK 3 NAME T PLAN 35G

PLAN I.D. 3 90 2

## **COVERED PORCH**





STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BEISSON DR., RALEIGH, NC 27609
LICENSE: C-1281, PHONE: 914-3-78-1617
PROJECT # 16-1591-GL

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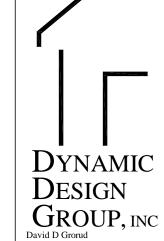
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REFER TO "SD" & "BD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.





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CAPITOL PROJECT FOR: CITY HOMES

20

3

25-2 DATE

LOCATION: MULTI

LOT: MULTI SUBDIVISION: MULTI

COUNTY: MULTI

**ENBRO**( PLAN NAME 35GL

3 90

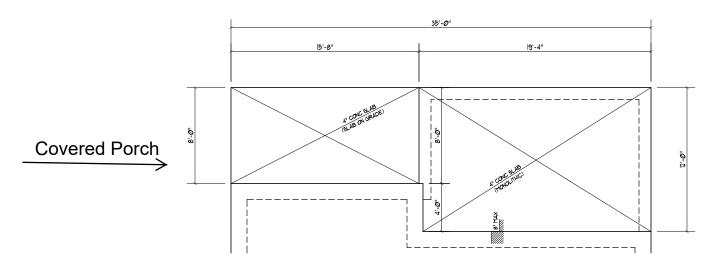
**SHEET** 

MONOLITHIC SLAB FOUNDATION PLAN SCALE -----|/8"=|'-0"

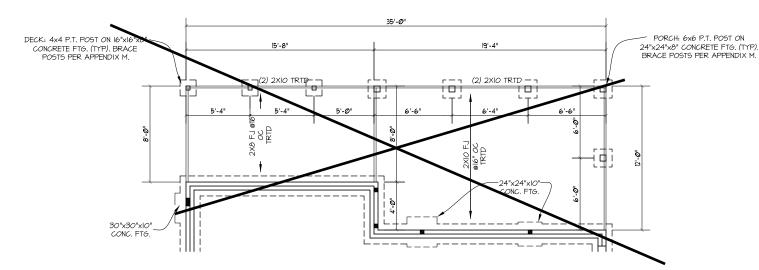
NOTES:

1) SEE SHEET D-1 FOR DETAILS.

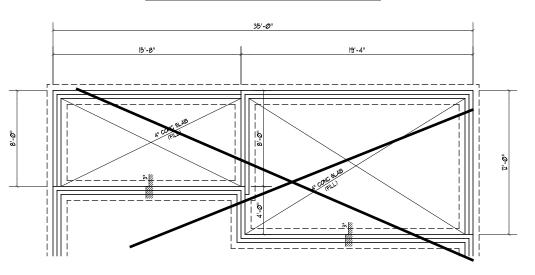
2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.



## SCREEN PORCH/BBQ DECK WITH MONOLITHIC SLAB FOUNDATION



## SCREEN PORCH/BBQ DECK WITH CRAWLSPACE FOUNDATION



SCREEN PORCH/BBQ DECK WITH STEM WALL/SLAB FOUNDATION





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- PROJECT # 16-1591-GL

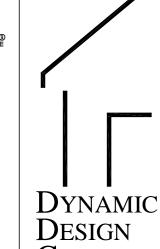
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  Any deviations or discrepancies on plans are to be brought to the Immediate attention of Southern Engineers, Failure to do so will void Southern Engineer's liability.

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CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

25-20 ENBROOK 3

PLAN NAME 35GL 3 90

SCR PORCH /BBQ DECK OPTIONS

**SHEET** 

SCREEN PORCH/BBQ DECK FOUNDATION OPTIONS SCALE: ----- 1/8"=1'-Ø"

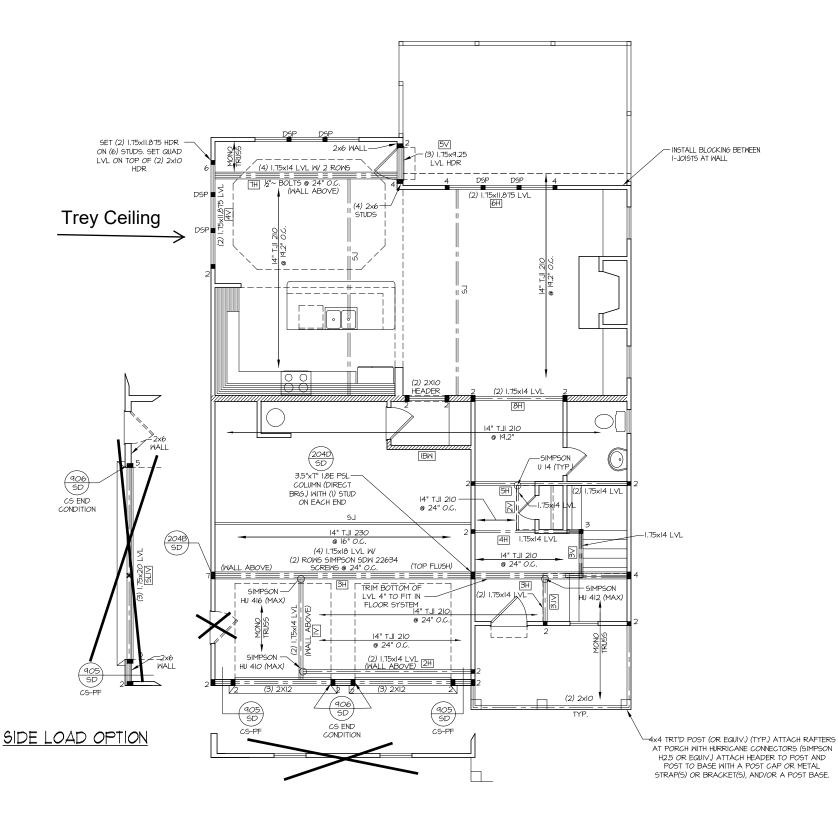
1) SEE SHEET D-1 FOR DETAILS.

2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.

#### 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
- 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:
- UP TO 4' SPAN: (I) KING STUD OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO II' SPAN: (3) KING STUDS OVER II' SPAN: (4) KING STUDS

WHOLE HOUSE BRACING SUMMARY TOTAL PROVIDED BRACING: 147





STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT # 16-1591-GL

- PROJECT # 16-1591-GL

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  \* Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will vold Southern Engineer's liability for Seal is valid for a project permitted within one year from date of seal.

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

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#### WOOD "I" JOISTS

(SHALL BE ONE OF THE FOLLOWING):

- TJI 210 BY I-LEVEL
- LPI 20 PLUS BY LP BCI 5000s I.8 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.

	LVL SCHEDULE
2H	(2) 1.75x14 LVL - 16'
ЗН	(4) 1.75×18 LVL - 36'
4H	(I) I.75xI4 LVL - IO'
5H	(2) 1.75×14 LVL - 14'
6Н	(2) 1.75×11.875 LVL - 10'
7H	(4) 1.75×14 LVL - 16'
8H	(2) 1.75x14 LVL - 8'
IV	(2) 1.75x14 LVL - 10'
2٧	(I) I.75xI4 LVL - 4'
37	(I) I.75xI4 LVL - 4'
3.1\	(2) 1.75×14 LVL - 4'
4٧	(2) 1.75x11.875 LVL - 10'
5٧	(3) 1.75x9.25 LVL - 6'

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

LVL SCHEDULE	
SIDE LOAD OPTION	
(3) 1.75×20 LVL - 20'-0"	SLIV

## ELEVATION "A" FIRST FLOOR CEILING / STRUCTURAL PLAN

NOTES:

1) SHADED WALLS DENOTE LOAD BEARING WALLS.

2) DENOTES SOLID STUDS.



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CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

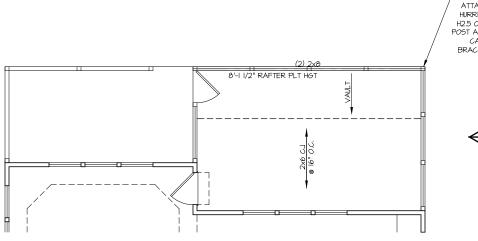
LOT: MULTI

SUBDIVISION: MULTI COUNTY: MULTI

> 20 5 2

**ENBRO** 3 PLAN ] 5 3 90

PLAN I.D.



-4"x4" TRT'D POST (OR EQUIV.) (TYP.) ATTACH RAFTERS AT PORCH WITH HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIV.) ATTACH HEADER TO POST AND POST TO BASE WITH A POST CAP OR METAL STRAP(S) OR BRACKET(S), AND/OR A POST BASE.

**Covered Porch** 



PROFESSIONAL MEMBER A

BD

- STRUCTURAL DESIGN BY:
  SOUTHERN ENGINEERS, P.A.
  3716 BENSON DR., RALEIGH, NC. 27609
  LICENSE: C-1281, PHONE: 918-878-1617
  PROJECT # 16-1591-GL

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  \* Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability

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CAPITOL PROJECT FOR: CITY HOMES

.25-20 DATE

3

35

190

SCR PORCH OPTION

**SHEET** 

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

PLAN NAME 35GL

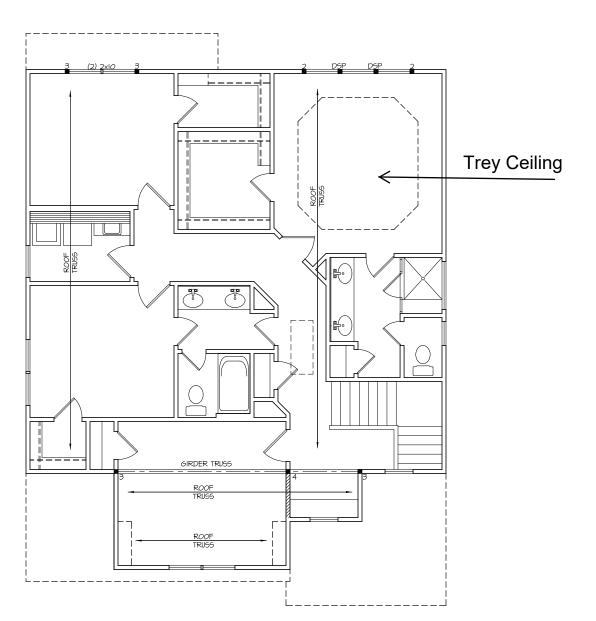
SCREEN PORCH CEILING / STRUCTURAL PLAN

#### NOTES:

1) SHADED WALLS DENOTE LOAD BEARING WALLS. 2) DENOTES SOLID STUDS.

#### HEADER/BEAM & COLUMN NOTES

- I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED
- 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:
- UP TO 4' SPAN: (I) KING STUD OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO II' SPAN: (3) KING STUDS OVER II' SPAN: (4) KING STUDS



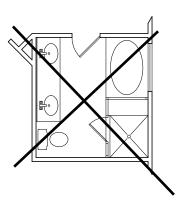


STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A.

- SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC. 27609 LICENSE: C-1281, PHONE: 914-818-1617 PROJECT # 16-1591-GL Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineer's Tailure to do so will void Southern Engineer's liability Seal is valid for a project permitted wilthin one year from date of seal.

  19 Sea of these plans constitutes approval of terms 4 conditions as defined in the customer agreement.

REFER TO "5D" & "BD" SHEET(5) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



ELEVATION "A" WITH REC ROOM SECOND FLOOR CEILING / STRUCTURAL PLAN

NOTES:

1) SHADED WALLS DENOTE LOAD BEARING WALLS.

2) DENOTES SOLID STUDS.



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Dimensions govern over scale, code govern

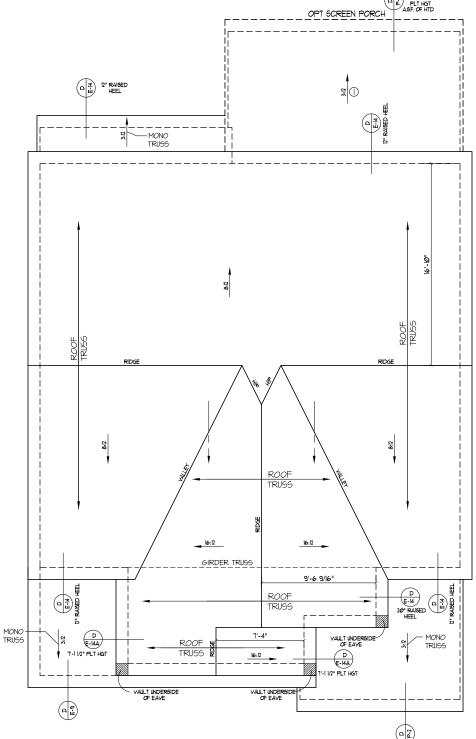
CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

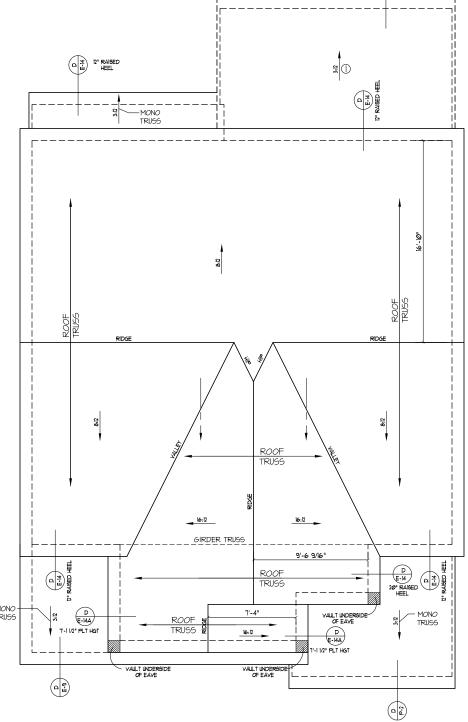
LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

5-20 25-2 DATE **ENBRO**( 3 PLAN NAME 35GL 3 90





ATTIC VENTILATION

9.76 TOTAL SQ. FT. OF VENT.

REQUIRED



STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A.

- SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1261, PHONE: 919-819-1617 PROJECT # 16-1591-GL \* Engineers seal applies only to structural components on this document. Seal does not Include construction means, methods, techniques, sequences, procedures or safety precautions. \* Any deviations or discrepancies on plans are to be brought to the Immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability \* Seal is valid for a project permitted within one year from date of seal. \* Use of these plans constitutes approval of terms \$ conditions as defined in the customer agreement.

REFER TO "5D" & "BD" SHEET(5) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

#### 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
- 2. 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.



# **DYNAMIC DESIGN** GROUP, INC David D Grorud

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CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

25-20 **ENBRO** 3 PLAN NAME 35GL 3 90

**SHEET** 



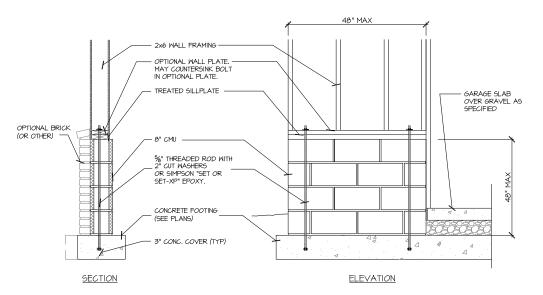
#### NOTES:

- 1) SEE SHEET D-1 FOR DETAILS.
  2) DIMENSIONS ARE FROM EXT. OF
- FRAMING TO CENTER LINE OF RIDGE.

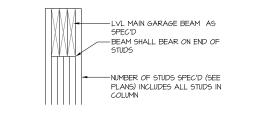
#### STRUCTURAL NOTES

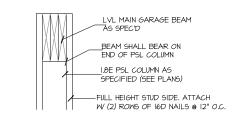
NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIEY 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 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, SEQUENCES 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 FRAMED 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 WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSE 10 PSE 1/360) ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSF, 10 PSF, 1 /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, IO PSF, L/360)
- FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- 4. 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 CONCRETE SHALL HAVE A MINIMUM 20 DAT STREND HOT SOLO PSI AND A MAXIMUM SUMPLOY OF SINCHES HOUSES NOTED OTHERWISE (UND). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE MITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF HEP DIMPS, CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF 1+30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SANCUT 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).
- ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTUAL 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 DRAINSURFACE 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) =
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9xI0 PSI.
  9.I. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0xI0 PSI.
  9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55xI0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 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 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 FLANSE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (I/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. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (ASTM 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 (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" 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 R703.7.3 LINTELS.



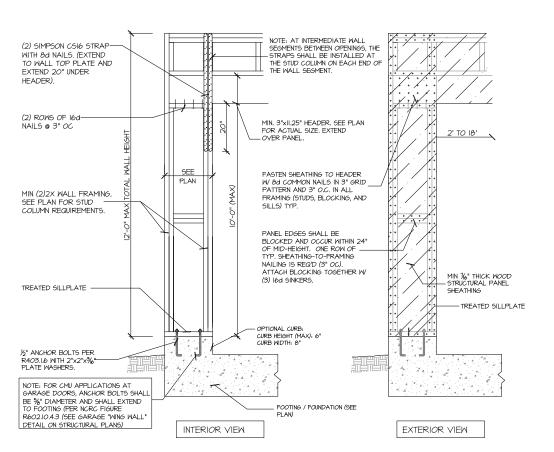
GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.IO.4.3











905B\CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORG FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION



STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT # 16-1591-GL

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PROFESSIONAL MEMBER

BD

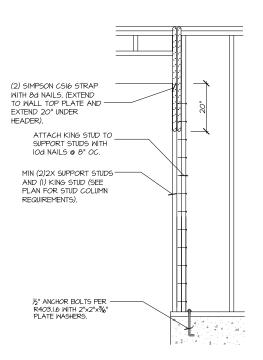
BUILDING DESIGN

A

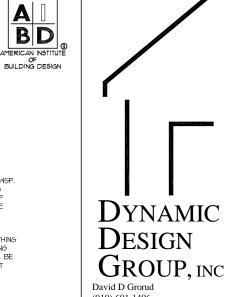
#### FRAMING NOTES

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 WALL FRAMING.
- 2. 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.
- 3. 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 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.
- \*\*GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV.)
- \*\*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 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSIM 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-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 OR OVER WSP AS REQUIRED ATTACH OPPOSITE SIDE WITH I/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE



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



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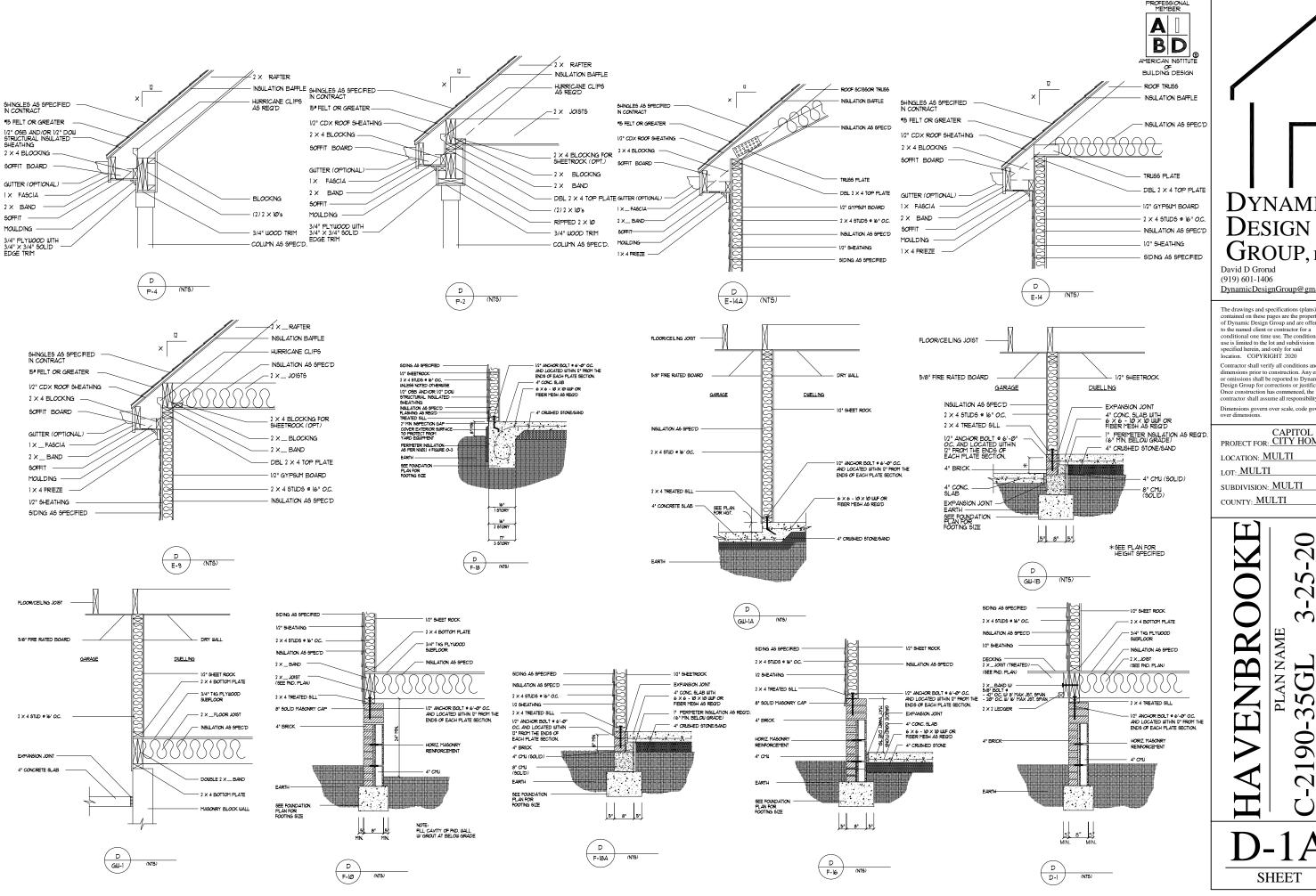
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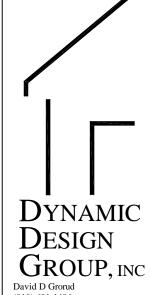
**CAPITOL** PROJECT FOR: CITY HOMES LOCATION: MULTI

LOT: MULTI SUBDIVISION: MULTI

COUNTY: MULTI

 $\sim$ DATE S  $\sim$ 3 2  $\triangle$ **PLAN** S I.D. 3 PLAN 6





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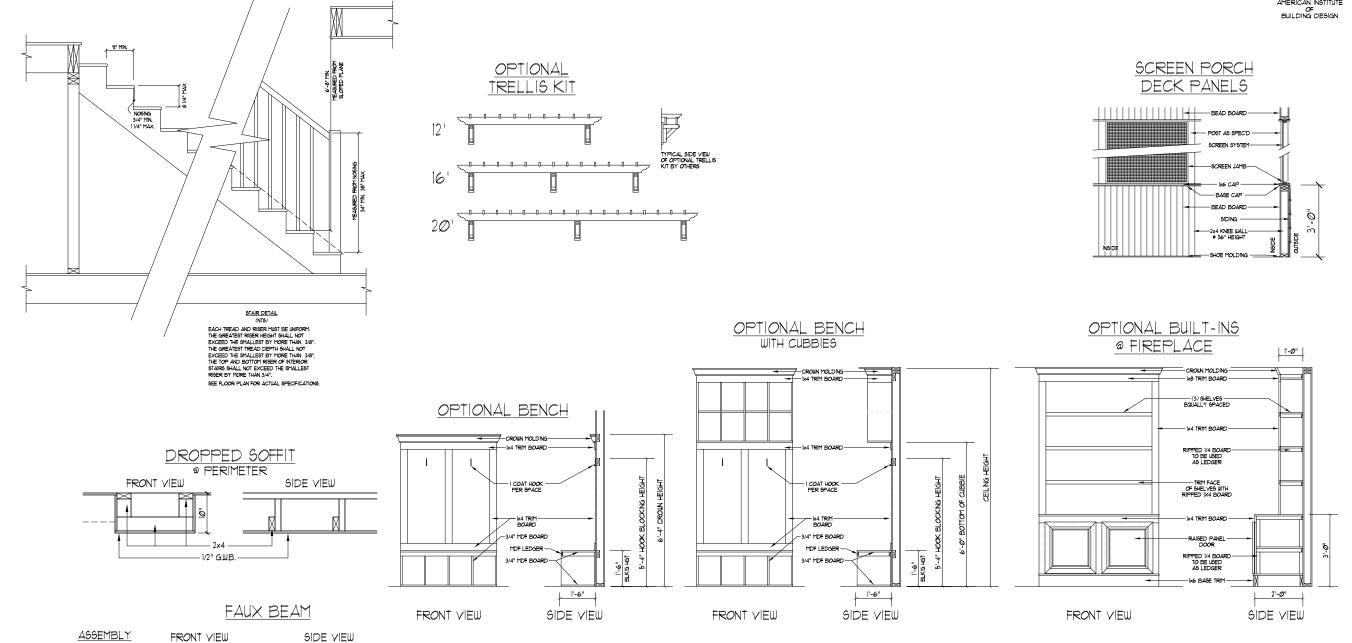
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CAPITOL PROJECT FOR: CITY HOMES

.25-20 DATE 3

5 PLAN I.D. 3 90





└ 1/2" G.W.B. —

- 2/8 -

- Ix8 TRIM

- 1/4" REVEAL :

CROWN MOLDING

- MITER JOINT

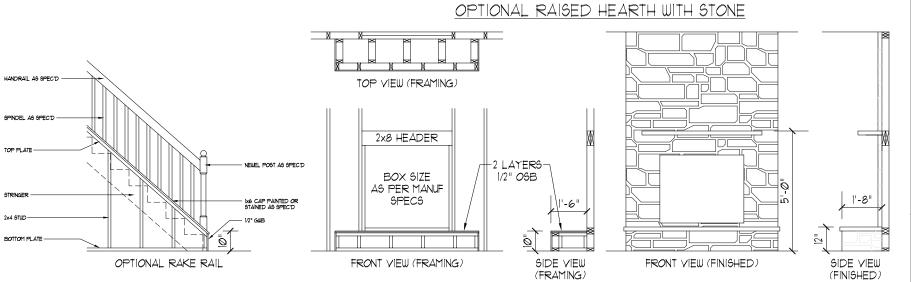
PAD DOWN @ LIGHT / CEILING FAN LOCATIONS FOR SUPPORT

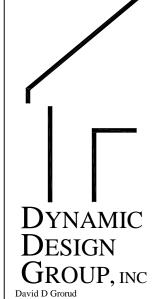
BOTTOM VIEW

STEP 2

STEP 3

 $\boxtimes$ 





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CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

.25-20 DATE ENBROOK  $\mathcal{C}$ 

PLAN NAME 35GL PLAN I.D. 3 -06 C-2