







(919) 601-1406

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Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification Once construction has commenced, the contractor shall assume all responsibility.

PROJECT FOR: ICG
LOCATION:
LOT:
SUBDIVISION:
COUNTY:

18 PLAN

58G PLAN I.D. 325 ı  $\mathbf{B}$ 

2

SHEET

RIGHT SIDE ELEVATION SCALE: ----- 1/8" = 1'-Ø"







DYNAMIC
DESIGN
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PROJECT FOR: ICG

LOCATION: --
LOT: ---

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SUBDIVISION: ---

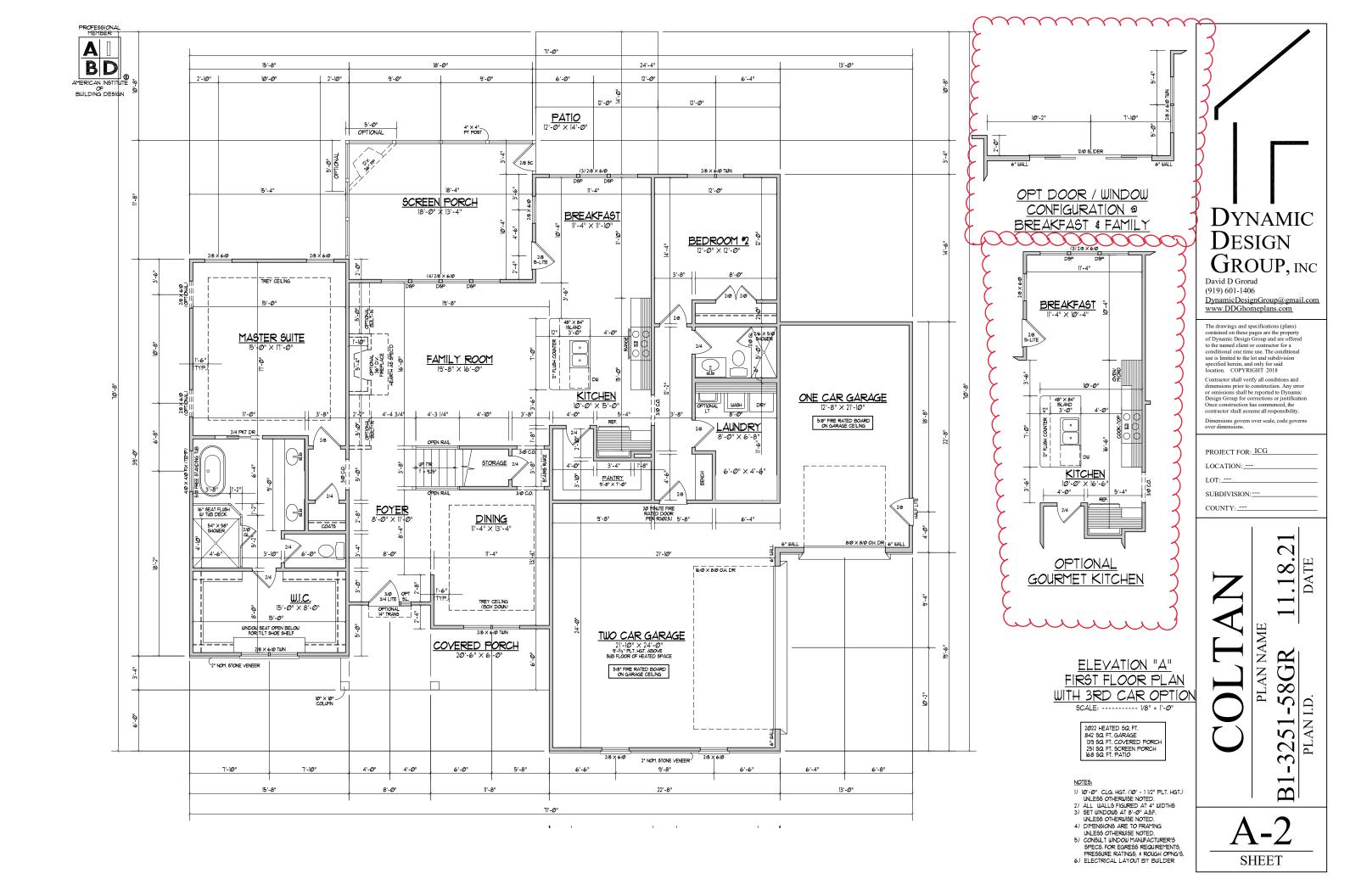
COUNTY:\_---

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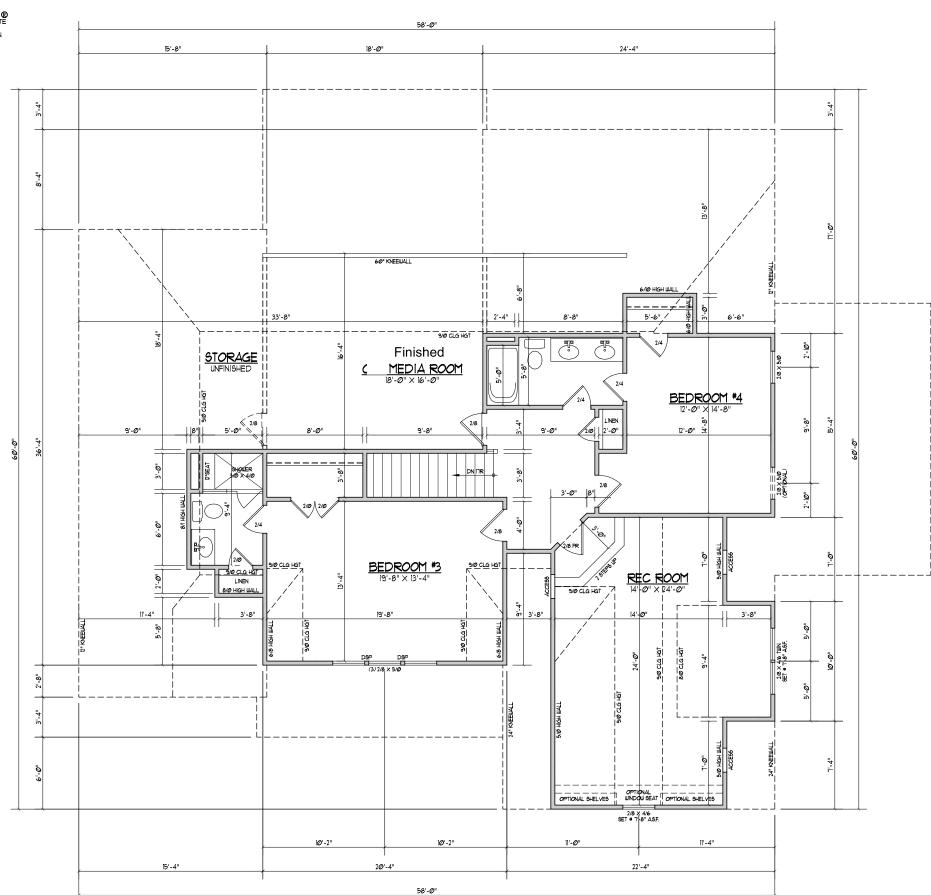
PLAN NAME

 $\frac{\text{PLAN NA}}{\text{B1-3251-58GR}}$   $\frac{\text{PLAN I.D.}}{\text{PLAN I.D.}}$ 

A-1B









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

1229 HEATED SQ. FT. 302 OPTIONAL MEDIA ROOM

## NOTES:

- 1) 9'-Ø" CLG. HGT. (9' 1 1/2" PLT. HGT.) 1) 9'-0" C.L.G. HGT. (9' - 1 1/2" PLT. HGT.
  UNLESS OTHERWISE NOTED.
  2) ALL WALLS FIGURED AT 4" WIDTHS
  UNLESS OTHERWISE NOTED.
  3) SET WINDOWS AT 1'-4" A.SF.
  UNLESS OTHERWISE NOTED.
  4) DIMENSIONS ARE TO FRAMING
  UNLESS OTHERWISE NOTED.

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

  6) ELECTRICAL LAYOUT BY BUILDER
- SD = SMOKE DETECTOR CO = CARBON MONOXIDE DETECTOR



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LOT:
SUBDIVISION:
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COUNTY:\_---

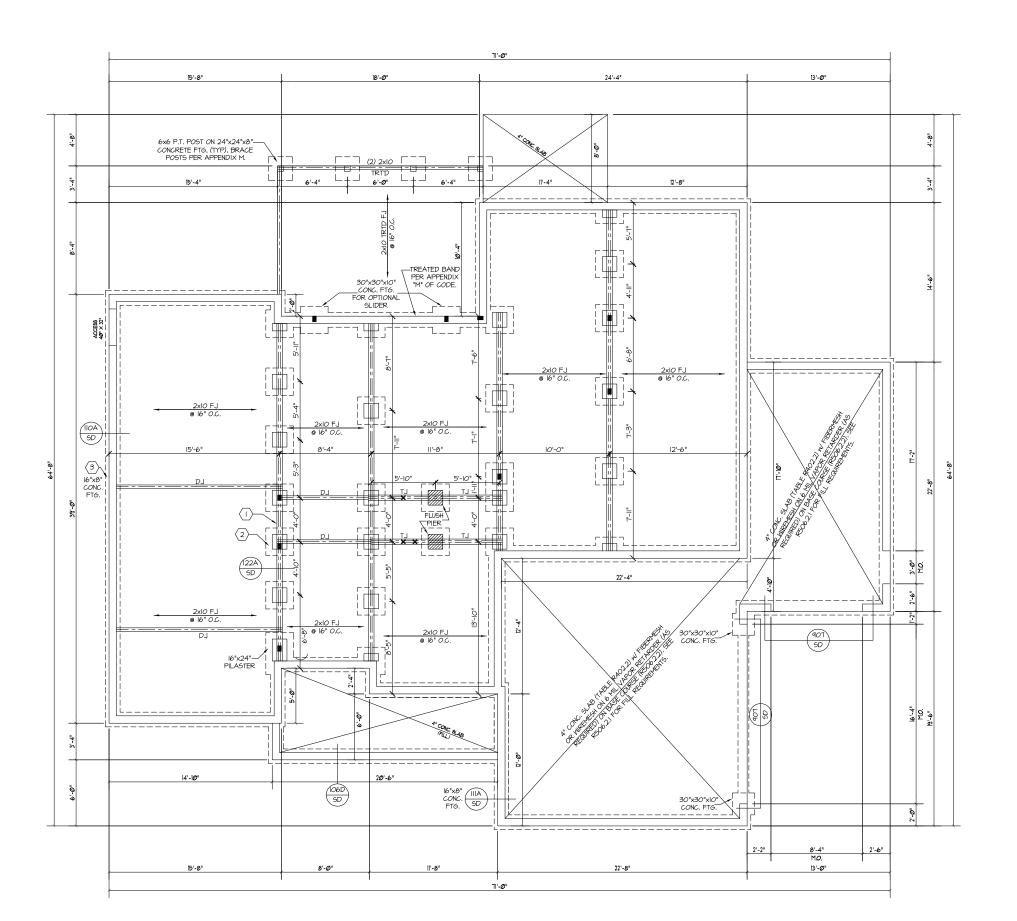
2 18.

PLAN NAME

-58GR PLAN I.D. 3251 ı

 $\mathbf{M}$ 

SHEET





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

 $\fbox{(3)}$  (3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.

2 CONCRETE BLOCK PIER SIZE SHALL BE: HOLLOW UP TO 32" UP TO 48" SOLID UP TO 5'-0" UP TO 9'-0" 12x16 UP TO 64" UP TO 96" UP TO 12'-0" WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

3

WALL FOOTING AS FOLLOWS
DEPTH: 8" - UP TO 2 STORY
IO" - 3 STORY

16" - UP TO 2 STORY 20" - 3 STORY 16" - 1 STORY 20" - 2 STORY 24" - 3 STORY BRICK:

- FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.I.I (I THRU 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) 2xIO SPF #2 OR SYP #2 GIRDER
- (2) 1.75x4.25 LVL OR LSL GIRDER
- (3) 1.75x9.25 LVL OR LSL GIRDER
- "" 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 FND, TYPICAL.
- ABBREVIATIONS:
- "SJ" = SINGLE JOIST
  "DJ" = DOUBLE JOIST
  "TJ" = TRIPLE JOIST
- ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

WAL	L VENTED	CRAI	UL SPAC	Œ
REQUIRED				
1877	5Q. FT. / 15Ø =	12.51	6Q. FT. <i>O</i> F VE	entilation
	OSED CE	D AIIII 6	2D / CE	

VENTILATION METHODS THE CRAILL SPACE SHALL BE DESIGNED AS A HEATED AND COOLED, CONDITIONED SPACE WITH WALL INSULATION INSTALLED AS PER THE REQUIREMENTS OF SECTION RAPPART



# PROJECT # 22-1881 (309SER)

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S-1

## HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2xIO (4" WALL) OR (3)2xIO (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 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

## LVL CONNECTION LEGEND

- (2) PLY 1.75" LVL BEAMS:
   (3) ROMS OF IOD NAILS @ 12" O.C. OR
   (2) ROMS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C.
- 2. (3) PLY 1.75" LVL BEAMS:
- On the control of th
- EQUAL) SCREWS @ 16" O.C.

#### 3. (4) PLY 1.75" LVL BEAMS:

- (2) ROWS OF SIMPSON SDW22634 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22634 (OR.) EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".

MOOD "I" JOISTS
(SHALL BE ONE OF THE FOLLOWING):

TJI 210 BY I-LEVEL

- 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 1-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER

NOTE: I-JOISTS MAY BE SUBSTITUTED WITH FLOOR TRUSSES DESIGNED BY SUPPLIER (SAME DEPTH AND LAYOUT).

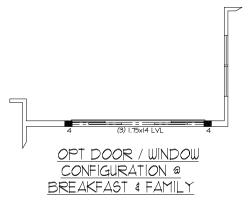
## FRAMING NOTES

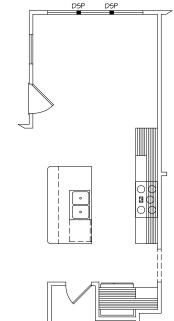
NC (2018 NCRC): Wind: 115-120 mph

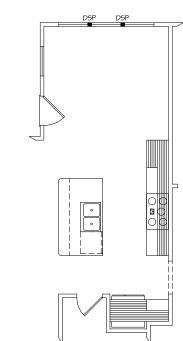
- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED MSP: C5-MSP. NOTE THAT THE MALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF MALL BRACING REQUIRED BY SECTION REGOLO OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (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. MSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R6021.0.45 AND ATTACH BRACED WALLS PER CODE. MSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE MSP S AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD
- "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.

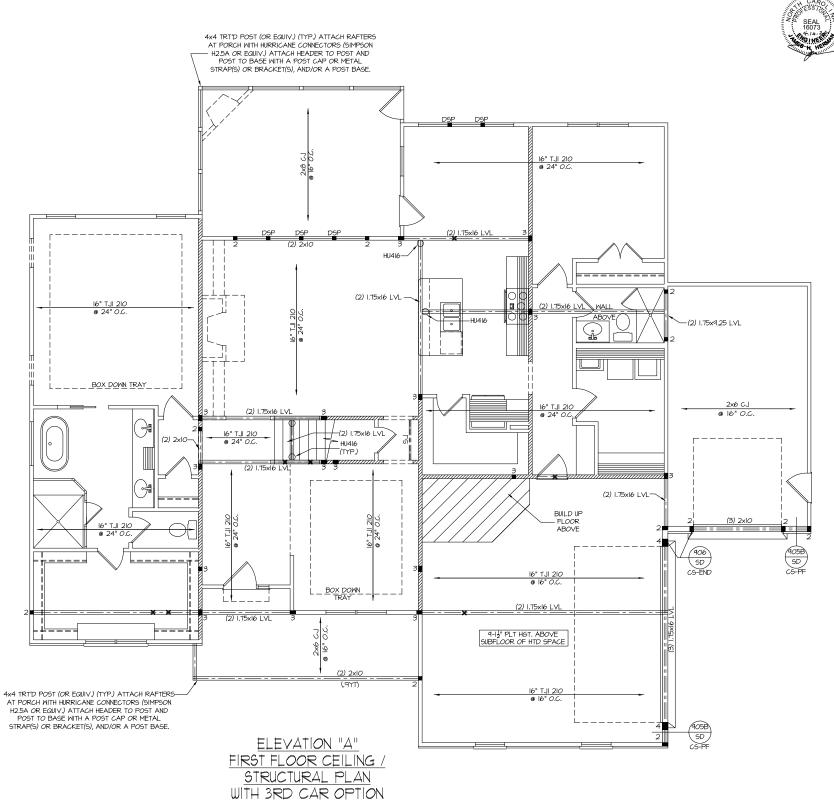
  \*\*\*GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV.)

  \*\*\*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP T\*
  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" 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-WOOD STRUCTURAL PANEL: (NOTED AS "<u>IBW-WSP</u>" ON PLANS).
  ATTACH ONE SIDE WITH 76" MSP SHEATHING WITH 80 NAILS AT A 6"/1/2" NAILING PATTERN
  (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" 68 WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.









5CALE: ----- 1/4" = 1'-@"

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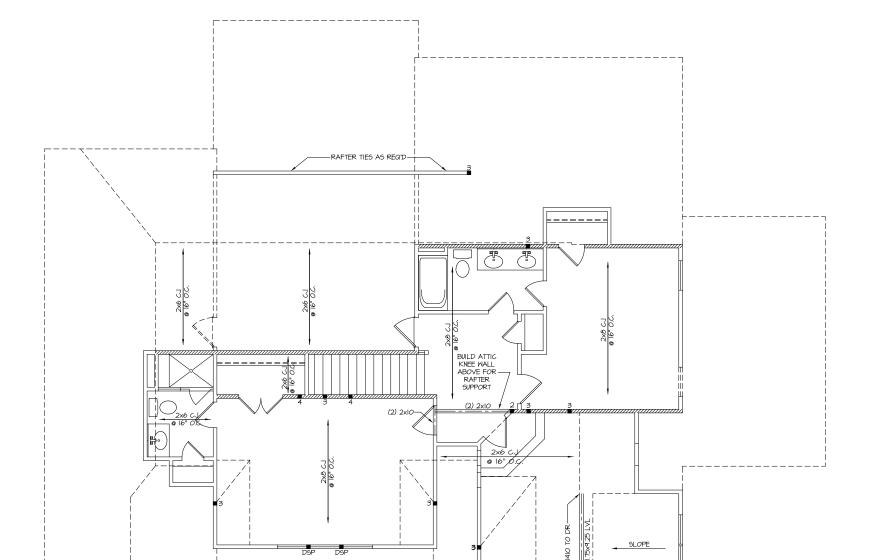
y precautions.
s on plans are to be brought tr
rn Engineers. Failure to do so

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S-2





## HEADER/BEAM & COLUMN NOTES

- I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2xIO (4" MALL) OR (3)2xIO (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 "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 11" SPAN: (3) KING STUDS OVER 8" UP TO 11" SPAN: (3) KING STUDS OVER 11" SPAN: (4) KING STUDS

PROJECT# 22-1881 (309SER)

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Coltan 9, Serenity - 165 Inspiration Way ICG HOMES Lot 309, 9

S-3

ELEVATION "A" SECOND FLOOR CEILING/ STRUCTURAL PLAN WITH 3RD CAR OPTION 9CALE: ---- |/4" = 1'-0"



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

- (). 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR I.75xII.675 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (3) (2) 2xIO OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- 4) 1.75x11.875 LVL OR (2)1.75x4.25 LVL VALLEY
- FALSE FRAME VALLEY ON 2xIO FLAT PLATE
- 6 2x6 RAFTERS @ 16" O.C. W 2x8 RIDGE, UNO.
- 7) 2xIO RAFTERS @ I6" O.C. W 2xI2 RIDGE, UNO.
- (8) EXTEND RIDGE 12" BEYOND INTERSECTION

- EXTEND RIDGE 12" BEYOND INTERSECTION

  "SR" = SINGLE RAFTER

  "IR" = TRIPLE RAFTER

  "IR" = TRIPLE RAFTER

  "B" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE
  2X6 STUDS OR 6X6 POST FOR SUPPORT OVER IO'-O' IN
  HEIGHT)

  ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS:
  SIMPSON 'H-25A" OR EQUIVALENT, TIES TO BE INSTALLED
  ON THE OUTSIDE FACE OF FRAMING,
  INSTALL RAFTER TIES AND COLLAR TIES PER SECTION
  R802.3.1 OF THE 2018 NC RESIDENTIAL CODE.

# ATTIC VENTILATION

| PROVIDED (NLET) | 90 FIT | 91 PREX | 132 | LINEAR FT. = 9.24 9.0 FT. | 107 AL OF (OUTLET) | LINEAR FT. OF VENT. | 0F VENT. | 0F VENT. | 0F VENT. | 0F VENT. | 13.42 9.0 FT. | 15.3 9.0 F

REQUIRED

22.66 TOTAL 50.FT.

SCALE: ----- 1/4" = |'-@"

S-4

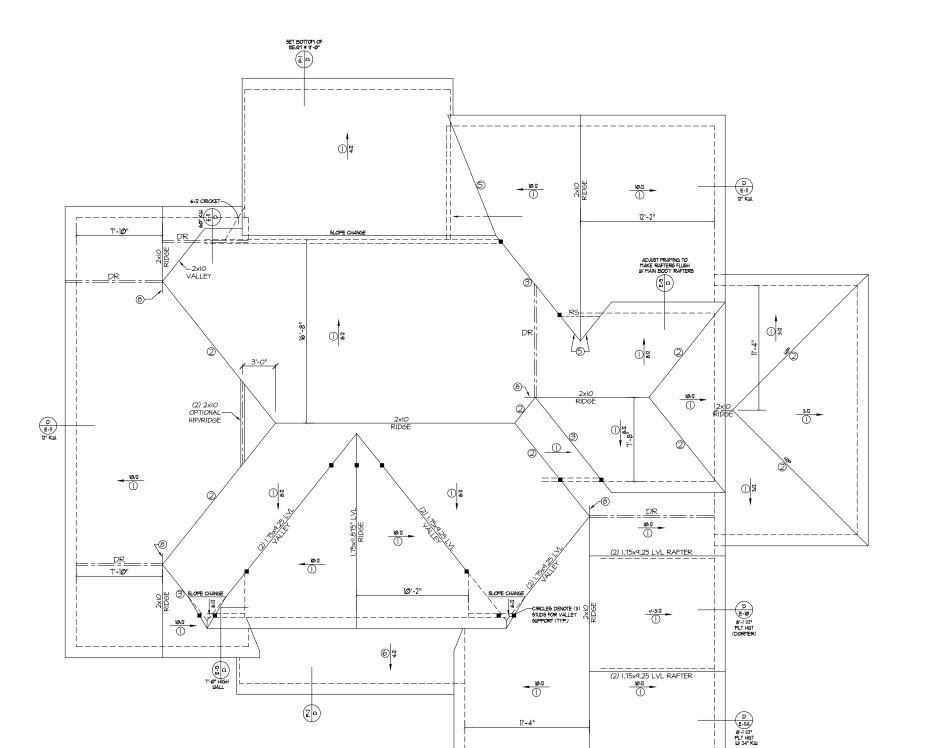
Lot 309,

Coltan 9, Sereniy - 165 Inspiration Way

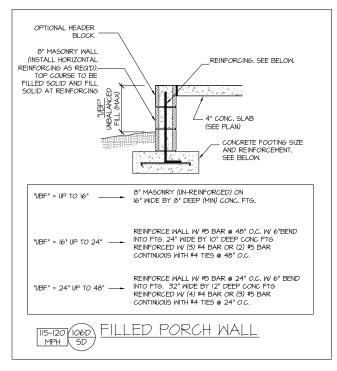
ICG HOMES

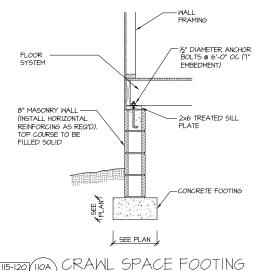
ELEVATION "A"

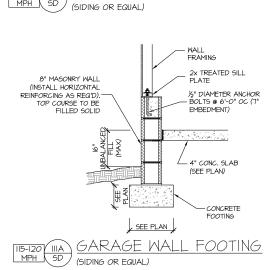
ROOF FRAMING PLAN WITH 3RD CAR OPTION



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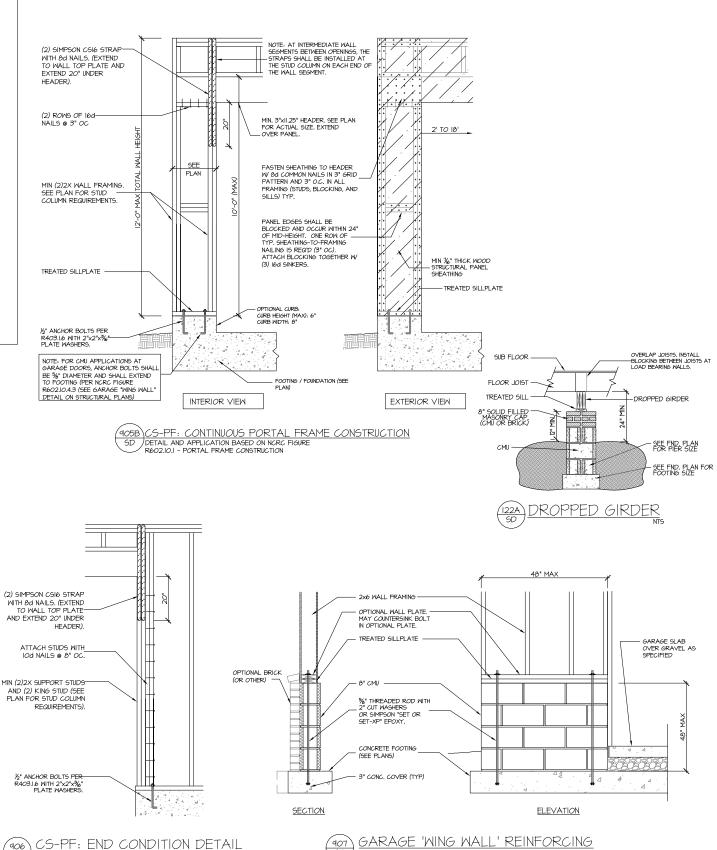




(FOR USE WITH SINGLE CS-PF CONDITION)

R602.IO.I - PORTAL FRAME CONSTRUCTION

DETAIL AND APPLICATION BASED ON NORG FIGURE



PER IRC FIGURE R602.10.4.3



## STRUCTURAL NOTES

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

- I. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RATTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FROITING, AND PILING SYSTEM. ENGINEERS'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL SOUTHERN ENGINEERS P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NO RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND MILL NOT HAVE CONTINCE, OF, CONSTRUCTION OF MEMORY METHODS. TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR MILL THE ENGINEER BE RESPONSIBLE FOR THE CONSTRUCTION WORK IN ACCORDANCE MITH HELE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION NORK IN ACCORDANCE MITH HELE 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 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSF, 10 PSF, L/360)
- EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360) DECKS: (40 PSF, IO PSF, L/360)
- GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360) FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- SNOW: (20 PSF)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS, ALL SAMPLES FOR FUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D) CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D (LE 4" CONCRETE SLABS SHALL HAVE ¼" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +10"-0" GRID).
- 7. 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.
- 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) = 425 PSI - MIN).
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=I,9xI0
- ". P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, 9.1.
- E=2.0xiO P5I.

  E=2.0xiO P5I.

  L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 P5I, Fv=400 P5I, E=1.5xiO P5I, INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS. 9.2.
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUGSES AND 1-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR 1-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 SUPPORTED AT EACH END WITH A MINIMM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCRENG (1/2" DIAMPETER 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 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM
- 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"x5/6" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 4"-0". SEE PLANS FOR SPANS OVER 4"-0". SEE ALSO SECTION RT03.8.3 LINTELS.

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