Crossings at Anderson Creek Lot 106- 510 Falls Creek Drive, Spring Lake 28390 Harnett Co. Created: 7/8/2020 House Plan: Havenbrook

Elevation: A Stone Option: Per Plan Foundation: Slab Foundation Finish: 4 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: 5/0 Windows 2nd Floor: 5/0

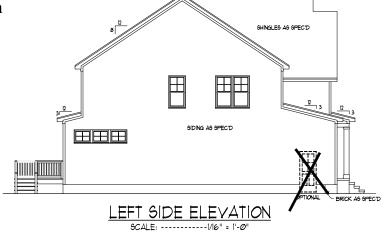


OPTIONS

Covered Porch Rec Room

Total Heated SQ FT: 2190 Total Unheated SQ FT: 809 Total SQ FT: 2999

Bedrooms: 3 + Rec Room Full Bathrooms: 2 Half Bathrooms: 1

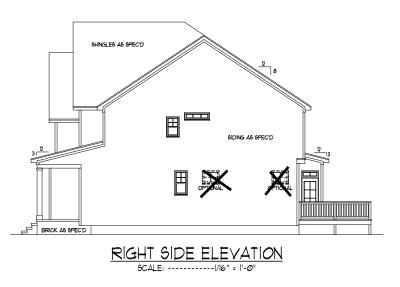




FRONT ELEVATION "A"

THIS PLAN CONFORMS TO THE 2018 EDITION OF THE

I.R.C. / NORTH CAROLINA RESIDENTIAL CODE.





NOTICE TO CONTRACTOR

APPROVED

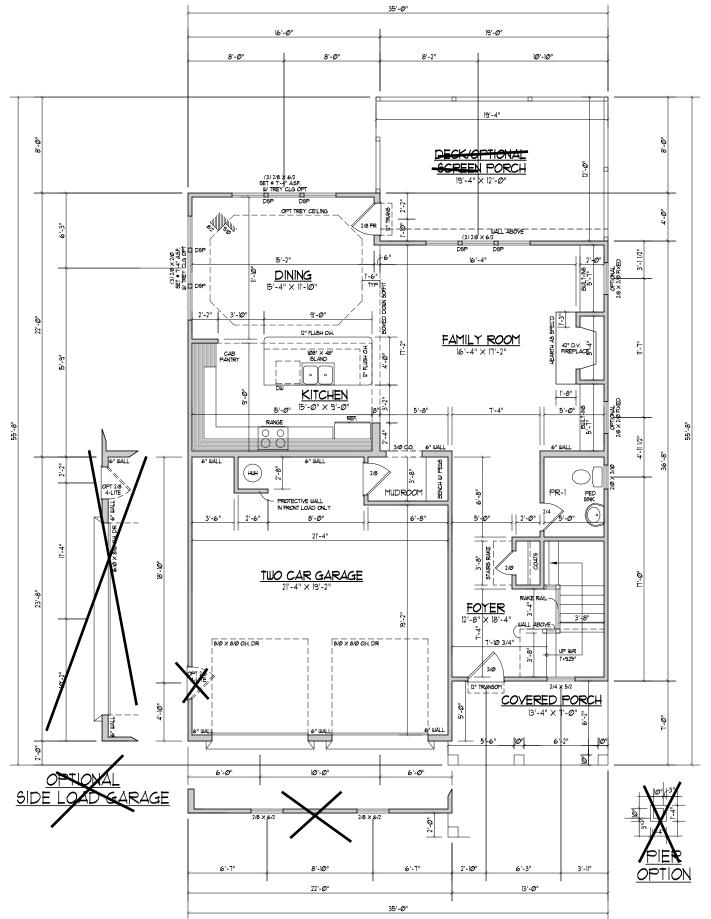




H

SHEET

Stone Location







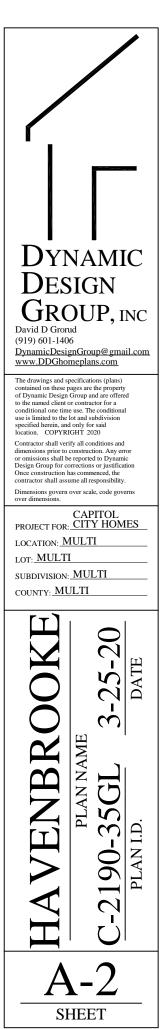
Covered Porch



921 HEATED SQ. FT. 486 SQ. FT. GARAGE 22 5Q. FT. COVERED PORCH 231 5Q. FT. DECK/OPT. SCREEN PORCH 125 5Q. FT. OPTIONAL BBQ DECK

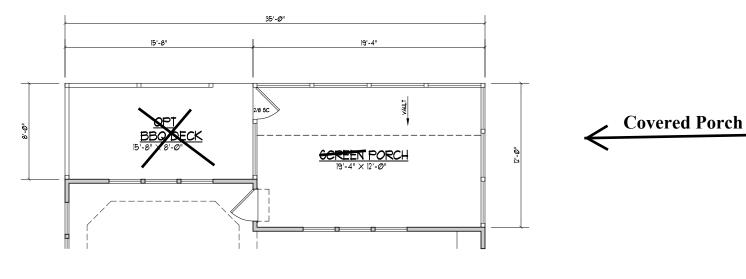
NOTES:

- IN 21-20" CLG. HGT. (9" 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED. 2) ALL WALLS FEARED AT 4" WDTHS 3) SET WINDOWS AT 1"-10" ASF. UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED.
 UNLESS OTHERWISE NOTED.
 CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OFNG'S.



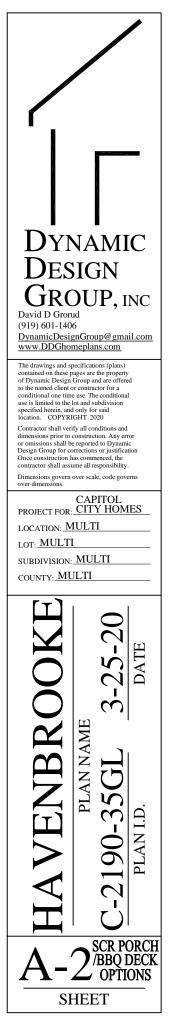
OPT SCREEN PORCH/BBQ DECK

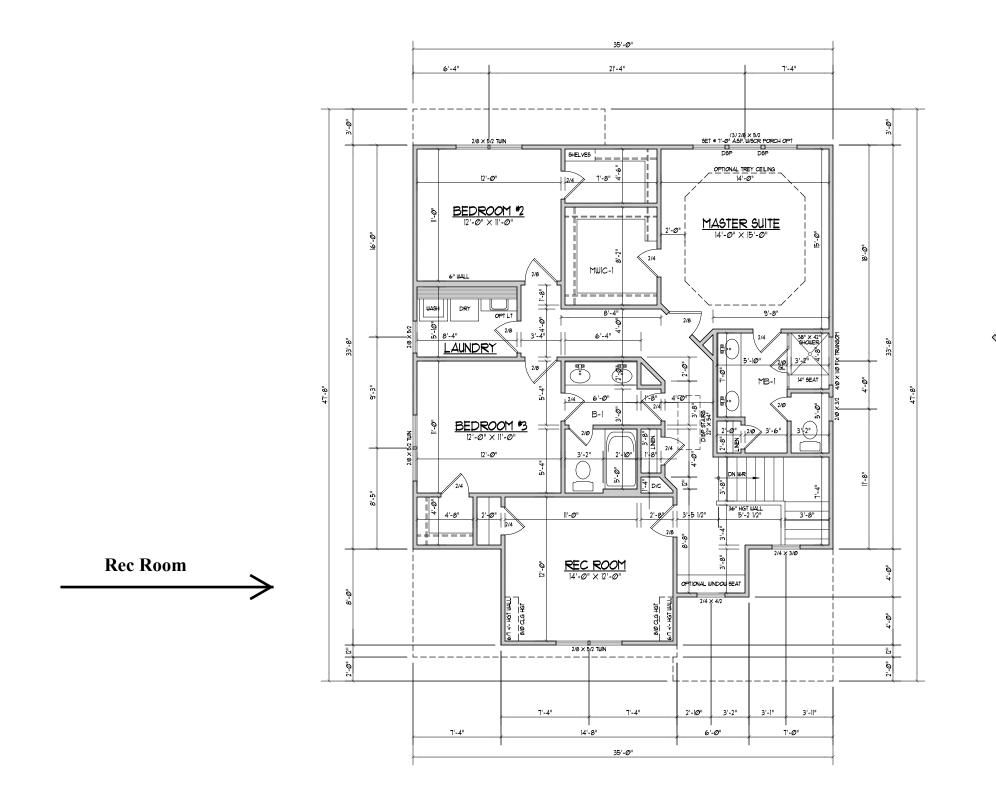


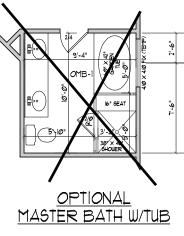


FLOOR PLAN SCALE: ---- 1/8" = 1'-0"







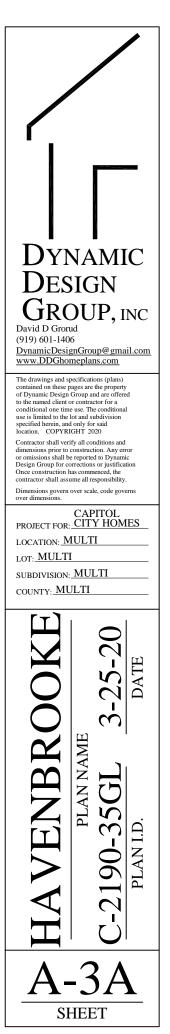


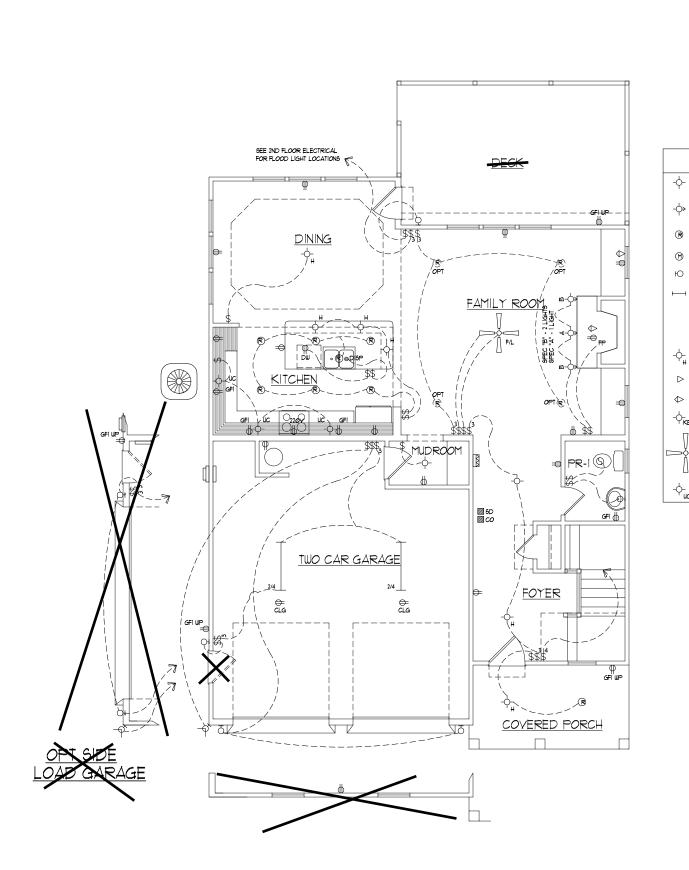




NOTES:

- 1) 8'-0" CLG. HGT. (8' 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.S.F. UNLESS OTHERWISE NOTED.
- 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
- 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPNG'S.





OPTIONAL ELE WITH ALL LIGHTS LISTED RESP RECESSED LIGHTS FLUORESCENT LIGHT IN LIEU OF REC CEILING FANS IN LIEU OF FL FLOODLIGHTS HANGING LIGHTS @ KITCHEN UNDER CABINET LIGHTS EXTERIOR LIGHTS AT GARA

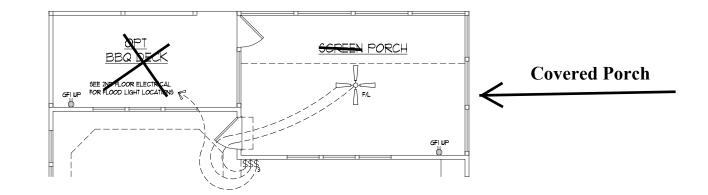
 ELECTRICA CEILING MOUNTED LIGHT FIXTURE DIRECTIONAL EYEBALL LIGHT FIXTURE RECESSED LIGHT FIXTURE MINI RECESSED LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE FLUORESCENT LIGHT ^{1/2} - 1 BULB ● 2¹ 2^{1/2} - 2 BULB ● 4¹ 2^{1/4} - 1 BULB ● 4^{1/4} - 1 BULB ● 4¹		
 ⇒ DIRECTIONAL EYEBALL LIGHT FIXTURE ® RECESSED LIGHT FIXTURE MINI RECESSED LIGHT FIXTURE ⇒ WALL MOUNTED LIGHT FIXTURE ⇒ FLUORESCENT LIGHT 1/2 1 BULB ● 2' 2/2 2 BULB ● 2' 2/2 2 BULB ● 2' 2/2 2 BULB ● 2' 2/2 2 BULB ● 4' 4/4 4 BULB ● 4' ⇒ TELEPHONE JACK ⇒ CABLE JACK ⇒ CEILING FAN WITH LIGHT FIXTURE 		ELECTRICA
 CHI FIXTURE (e) RECESSED LIGHT FIXTURE (f) MINI RECESSED LIGHT FIXTURE (h) WALL MOUNTED LIGHT FIXTURE (h) WALL MOUNTED LIGHT FIXTURE (h) FLUORESCENT LIGHT 1/2 1 BULB ● 2' 2/2 2 BULB ● 2' 1/4 1 BULB ● 4' 4/4 4 BULB ● 4' (h) HANGING LIGHT FIXTURE (h) TELEPHONE JACK (h) CABLE JACK (h) CABLE JACK (h) CEILING FAN WITH LIGHT FIXTURE 	-ф-	CEILING MOUNTED LIGHT FIXTURE
 MINI RECESSED LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE FLUORESCENT LIGHT V2 1 BULB ● 2' 2/2 2 BULB ● 2' 1/2 1 BULB ● 4' 2/4 2 BULB ● 4' 4/4 4 BULB ● 4' 4/4 4 BULB ● 4' -↓ HANGING LIGHT FIXTURE ► TELEPHONE JACK ← CABLE JACK ← KEYLESS LIGHT FIXTURE CEILING FAN WITH LIGHT FIXTURE CEILING FAN WITH LIGHT FIXTURE	-¢>	
 WALL MOUNTED LIGHT FIXTURE ► FLUORESCENT LIGHT 1/2 1 BULB ● 2' 2/2 2 BULB ● 2' 1/4 1 BULB ● 4' 2/4 2 BULB ● 4' 4/4 4 BULB ● 4' 4/4 4 BULB ● 4' ➡ HANGING LIGHT FIXTURE ► TELEPHONE JACK ➡ CABLE JACK ➡ CABLE JACK ➡ CEILING FAN WITH LIGHT FIXTURE 	®	RECESSED LIGHT FIXTURE
FLUORESCENT LIGHT 1/2 - 1 BULB • 2' 2/2 - 2 BULB • 2' 1/4 - 2 BULB • 4' 4/4 - 4	(\mathfrak{M})	MINI RECESSED LIGHT FIXTURE
1/2 1 BULB ● 2' 2/2 2 BULB ● 2' 1/4 1 BULB ● 4' 2/4 2 BULB ● 4' 4/4 4 BULB ● 4' ← HANGING LIGHT FIXTURE ► TELEPHONE JACK ← CABLE JACK ← KEYLESS LIGHT FIXTURE CEILING FAN WITH LIGHT FIXTURE	ю	WALL MOUNTED LIGHT FIXTURE
 ► TELEPHONE JACK ◆ CABLE JACK • CABLE JACK • CABLE JACK • CEILING FAN WITH ■ CEILING FAN WITH ■ LIGHT FIXTURE 		1/2 1 BULB # 2' 2/2 2 BULB # 2' 1/4 1 BULB # 2' 2/4 2 BULB # 4'
 CABLE JACK -\$\vee\$_{Key} Keyless light fixture Ceiling fan with Light fixture 	-¢_	HANGING LIGHT FIXTURE
-\$\vec{key} KEYLESS LIGHT FIXTURE CEILING FAN WITH LIGHT FIXTURE	\triangleright	TELEPHONE JACK
CEILING FAN WITH	\diamond	CABLE JACK
LIGHT FIXTURE	$-\varphi_{\text{Key}}$	KEYLESS LIGHT FIXTURE
$-\varphi_{uc}$ UNDER CABINET LIGHT		
	-¢- _{uc}	UNDER CABINET LIGHT

	PROFESSIONAL		
LECTRICAL ITEMS			
REDITECTIVE SWITCHED ARE ASSUMED	BD		
RECESSED CANS @ KITCHEN ONLY			
FLUSH MOUNT	BUILDING DESIGN		
HEN		· ·	
ARAGE DOOR			

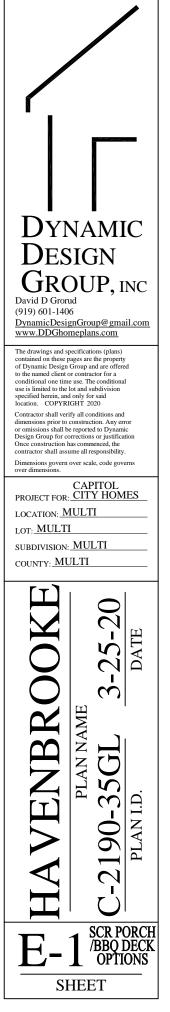
4L	SYM	BOLS
=	ç	EXHAUST FAN
		RECESSED SHOWER LIGHT
	ю	EXTERIOR FLOOD LIGHT
	5D	SMOKE DETECTOR
	⊠co	CARBON MONOXIDE DETECTOR
		DOOR CHIMES
		ELECTRICAL PANEL
		METERBOX
		A/C UNIT
	φ	IIØ OUTLET
	± 22øv	220 OUTLET
	\$	SINGLE SWITCH
	\$3	3-WAY SWITCH
	\$4	4-WAY SWITCH
	d GFI ₩P	OUTDOOR OUTLET
	⊕ ∉⊓	GFI



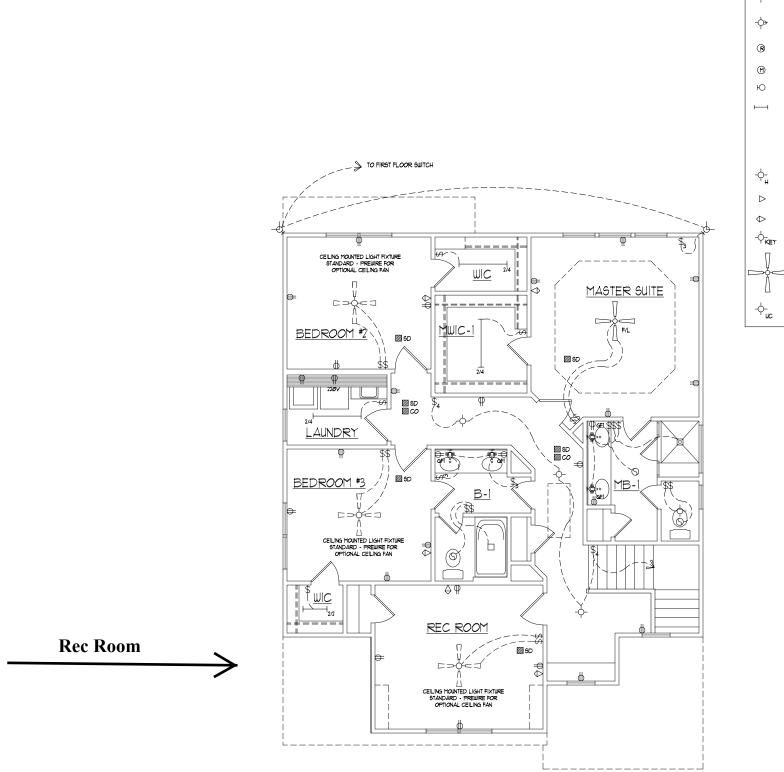




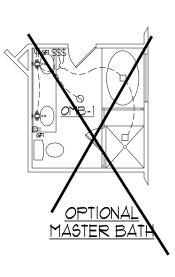








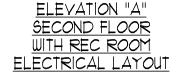
- CEILING MOUNTED LIGHT FIXTURE -ф-DIRECTIONAL EYEBALL LIGHT FIXTURE RECESSED LIGHT FIXTURE
- MINI RECESSED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- FLUORESCENT LIGHT 1/2 -- 1 BULB @ 2' 2/2 -- 2 BULB @ 2' 1/4 -- 1 BULB @ 4' 2/4 -- 2 BULB @ 4' 4/4 -- 4 BULB @ 4' HANGING LIGHT FIXTURE
- TELEPHONE JACK
- CABLE JACK
- CEILING FAN WITH LIGHT FIXTURE
- UNDER CABINET LIGHT

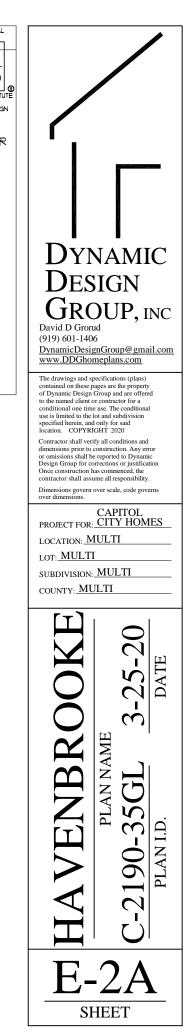


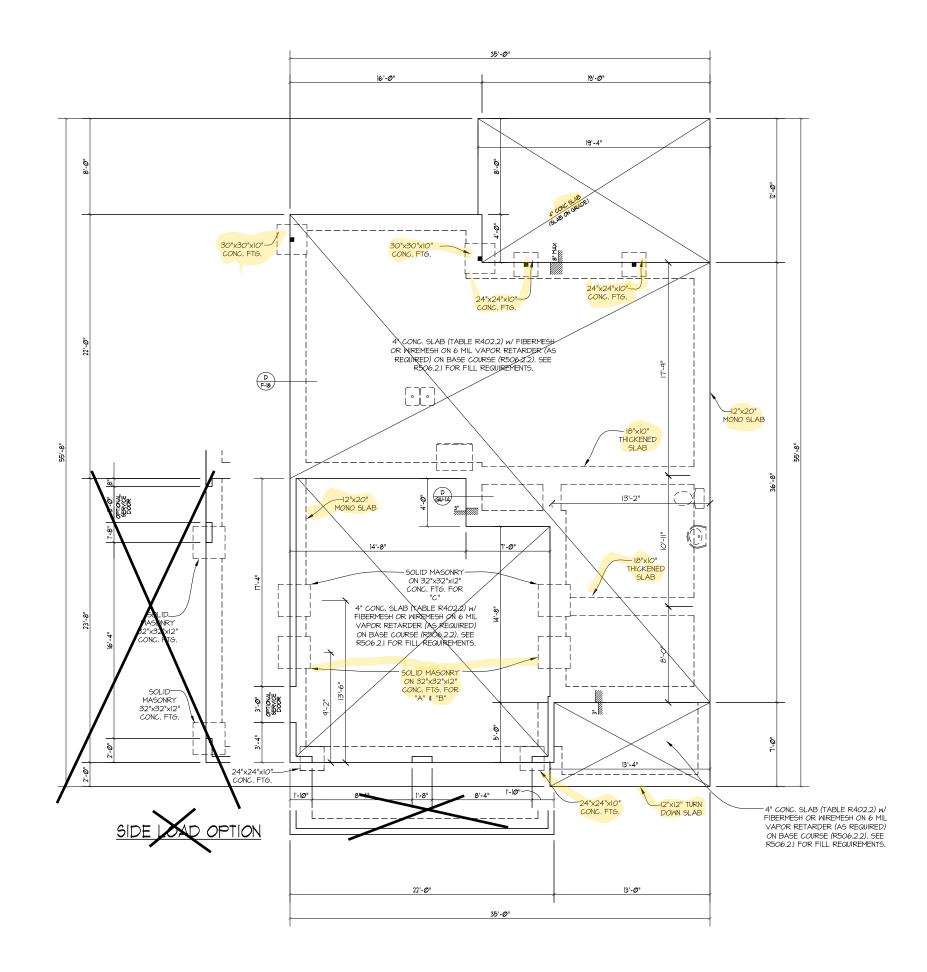
ELECTRICAL SYMBOLS

	9	
	Ъ	EXTERIOR FLOOD LIGHT OF BUILDING DESIGN
	5D	SMOKE DETECTOR
	⊠co	CARBON MONOXIDE DETECTOR
		DOOR CHIMES
		ELECTRICAL PANEL
		METERBOX
		A/C UNIT
	φ	IIØ OUTLET
		220 OUTLET
	\$	SINGLE SWITCH
	\$ ₃	3-WAY SWITCH
	\$4	4-WAY SWITCH
(GFI ₩P	OUTDOOR OUTLET
	⊕ ∉⊓	GFI

PROFESSIONAL MEMBER









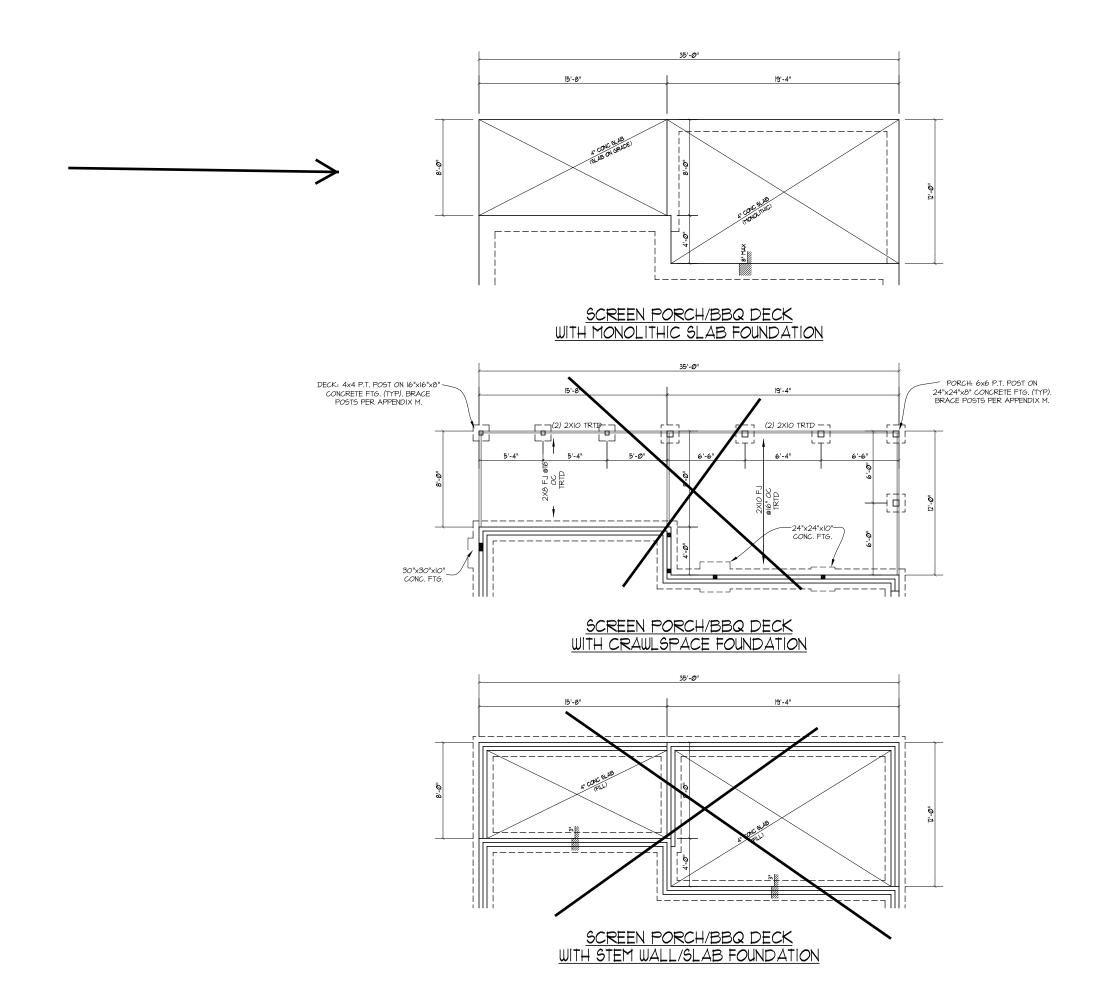
S-

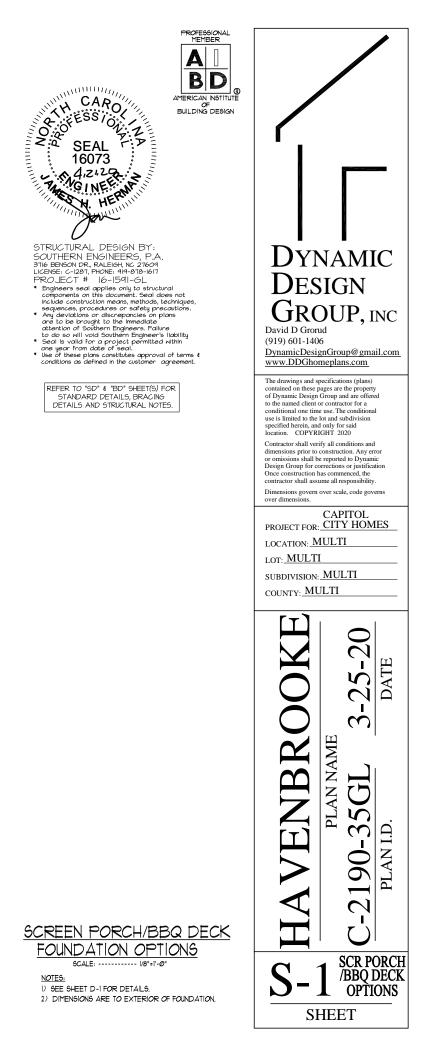
SHEET

NOTES:

1) SEE SHEET D-1 FOR DETAILS.

2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.

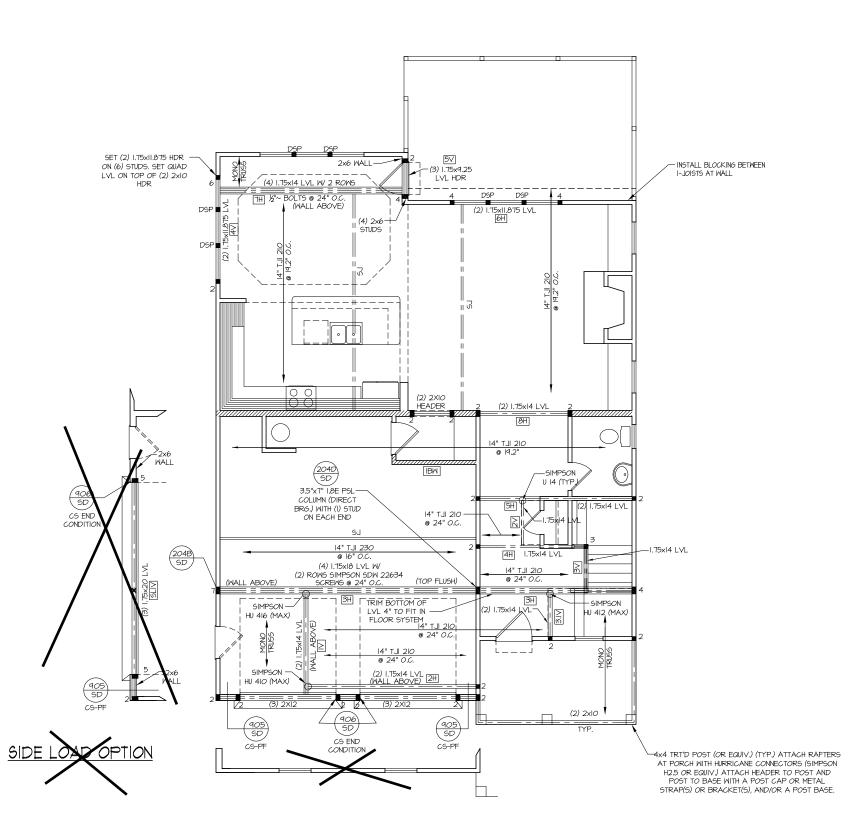




HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" 1 WALL) WITH (I) SUPPORT STUD, UNLESS NOTED **OTHERWISE**
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:
- 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 REQUIRED BRACING: 89 TOTAL PROVIDED BRACING: 147 (IN FEET)	





PROFESSIONAL MEMBER A BD AMERICAN INSTITUTE

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 316 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1287, PHONE: 919-878-1617 PROJECT # 16-1591-GL

- PROJECT # 16-1541-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's Itability 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 4 conditions as defined in the customer agreement.

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

WOOD "I" JOISTS

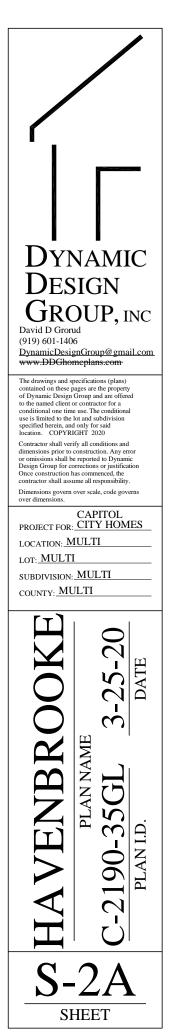
- (SHALL BE ONE OF THE FOLLOWING):
- TJI 210 BY I-LEVEL LPI 20 PLUS BY LP
- BCI 50005 1.8 BY BC
- ALL WOOD "I"JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUASH BLOCKS, WEB STIFFENERS. ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

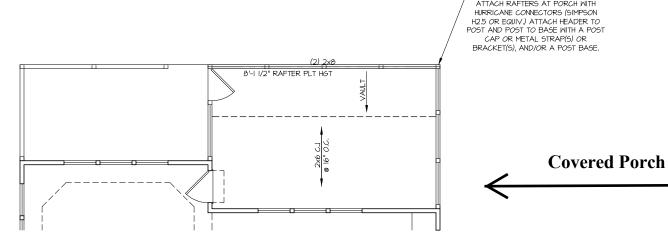
	LVL SCHEDULE	
2H	(2) 1.75x14 LVL - 16'	
ЗH	(4) I.75xI8 LVL - 36'	
4H	(I) I.75xI4 LVL - IO'	
5H	(2) 1.75x14 LVL - 14'	
6H	(2) 1.75x11.875 LVL - 10'	
7H	(4) 1.75x14 LVL - 16'	
8H	H (2) I.75xI4 LVL - 8'	
IV	(2) I.75xI4 LVL - IO'	
2V	(I) I.75xI4 LVL - 4'	
3∨	(I) I.75xI4 LVL - 4'	
3.IV	(2) I.75xI4 LVL - 4'	
47	(2) 1.75x11.875 LVL - 10'	
57	(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) 1.75x20 LVL - 20'-0"	SLIV







- 4"x4" TRT'D POST (OR EQUIV.) (TYP.) ATTACH RAFTERS AT PORCH WITH HURRICANE CONNECTORS (SIMPSON



PROFESSIONAL MEMBER A BD AMERICAN INSTITUTE OF BUILDING DESIGN

- STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A.
 STIG BENSON DR., RALEIGH, NC 27604
 LICENSE. C-1287, PHONE: 914-978-1611
 PROJECT # 16-1591-611
 PROJECT # 16-1591-61
 Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, proceedures or soleity precutions.
 Any deviations or discrepancies on plans are to be brought to the immediate datention of Southern Engineer's fillowing
 Seal is valid for a project permitted within one year from date of seal.
 Use of these plans constitutes approval of terms 4 conditions as defined in the customer agreement.

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



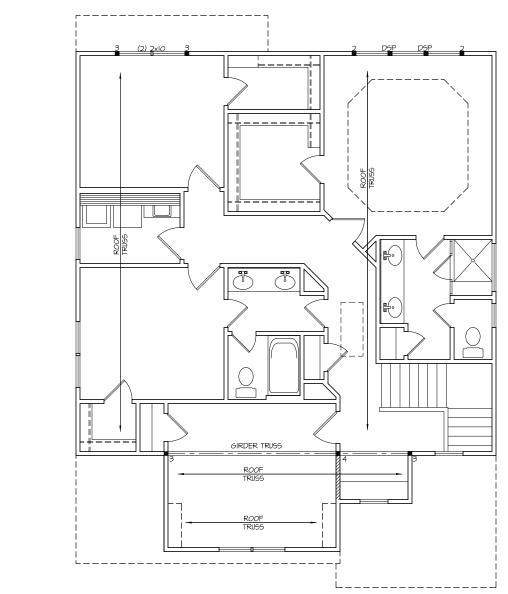
NOTES:

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

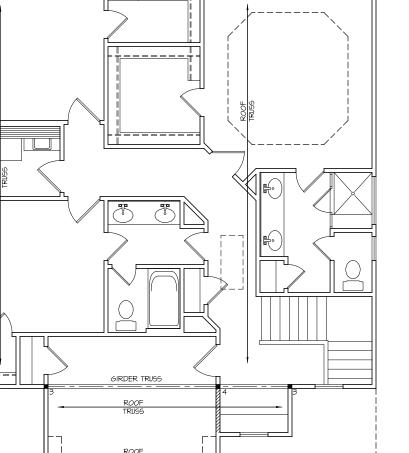


HEADER/BEAM & COLUMN NOTES

- 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 OTHERWISE.
- 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: (1) KING STUD OVER 4' UP TO 8' SPAN: (2) KING STUDS ...
- OVER & UP TO II' SPAN: (3) KING STUDS OVER II' SPAN: (4) KING STUDS



Rec Room





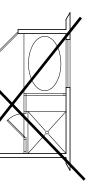


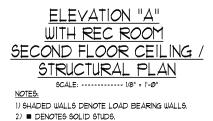


STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A.

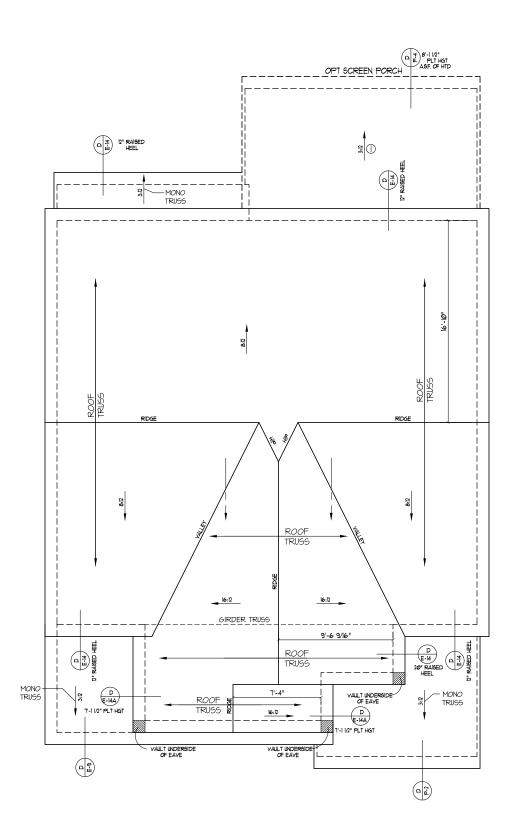
- SOUTHERN ENGINEERS, P.A. 31/6 BENSON DR., RALEIGH, NC 27604 LICENSE: C-1271, PHONE: 414-915-1617 PROJECT # 16-1591-GL Components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or sofety precoutions. Any deviations or discrepancies on plans are 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 4 conditions as defined in the customer agreement.

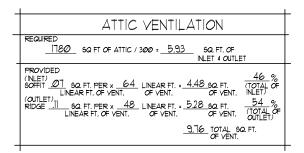
REFER TO "SD" & "BD" SHEET(5) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.





DYNAMIC DESIGN **GROUP**, INC David D Grorud (919) 601-1406 DynamicDesignGroup@gmail.com www.DDGhomeplans.com The drawings and specifications (plans) contained on these pages are the property of Dynamic Design Group and are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and subdivision specified herein, and only for said location. COPYRIGHT 2020 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 Dimensions govern over scale, code govern over dimer CAPITOL PROJECT FOR: CITY HOMES LOCATION: MULTI LOT: MULTI SUBDIVISION: MULTI COUNTY: MULTI Ľ -25-20 DATE **ENBRO(** Ś PLAN NAME 35GL 3 PLAN I.D. 06 -C-2 H **S**-3 SHEET





- ١. ENGINEERS.
- З.
- 4. SCHEMATICS.



PROFESSIONAL MEMBER A BD AMERICAN INSTITUTE OF BUILDING DESIGN

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A.

- SOUTHERN ENGINEERS, P.A. 316 BENSON DR., RALEIGH, NC 27609 LICENSE: C-1297, PHONE: 919-819-1017 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.

REFER TO "GD" & "BD" SHEET(S) 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

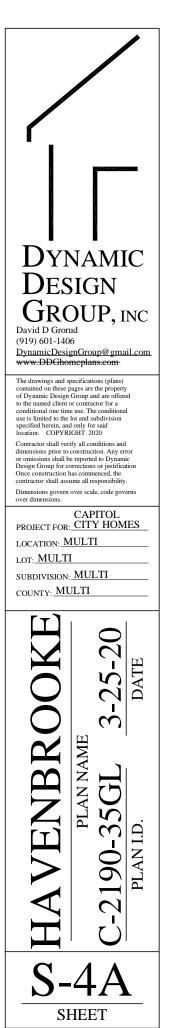
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

> 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

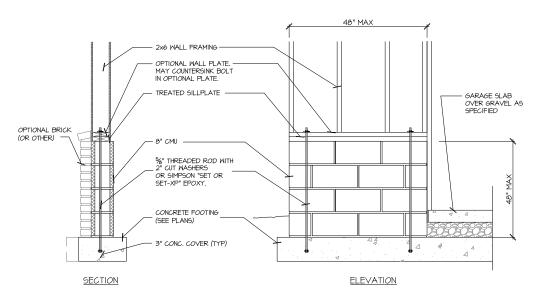


NOTES: SEE SHEET D-I FOR DETAILS.
 DIMENSIONS ARE FROM EXT. OF FRAMING TO CENTER LINE OF RIDGE.

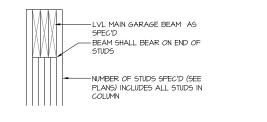


STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph

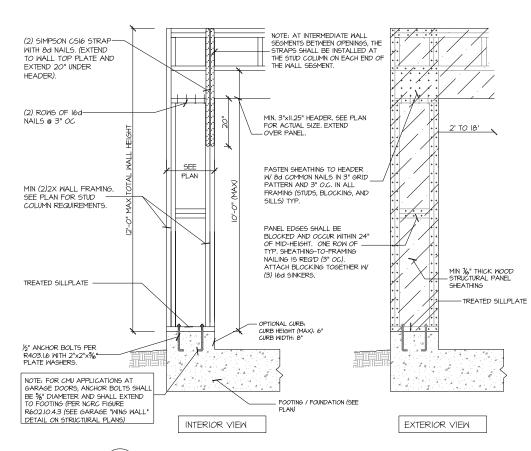
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIEY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROF 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 PLIS 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, 10 PSF, L/360) SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSE 10 PSE 1/360)
- ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSE 10 PSE 1 /360)
- EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360)
- DECKS: (40 PSF, IO PSF, L/360) GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
- FIRE ESCAPES: (40 PSF, 10 PSF, L/360) SNOW: (20 PSF
- 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 STRENGTH OF 30:00 PSI AND A MIXAMUM SLUMP OF 5 INCHES NULESS NOTED OTHERNISE (I/NO). AN ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF 4-30 TIMES THE DEPTH (D). CONTROL JOINTS HALL 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) = 425 PSI - MIN)
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10 PSI.
 9.I. PS.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=290 PSI, E=2.0x10 PSI.
 9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10 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 10. 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 SCREINS (1/2" DIAMETER X 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- I3. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x51/6" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9"-0". SEE PLANS FOR SPANS OVER 9"-0". SEE ALSO SECTION RT03.1.3 LINTELS.











204D

(905B)CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORC FIGURE SD R602.10.1 - PORTAL FRAME CONSTRUCTION



FRAMING NOTES

- BRACING AND WALL FRAMING.

- SEE DETAILS FOR HD ASSEMBLY.

LVL MAIN GARAGE BEAM

BEAM SHALL BEAR ON

SPECIFIED (SEE PLANS)

FULL HEIGHT STUD SIDE, ATTACH

GARAGE BEAM BEARING

W (2) ROWS OF 16D NAILS @ 12" O.C

END OF PSL COLUMN

LAF PSI COLUMN AS

AS SPEC'D

- (OR EQUIV.)
- INTERMEDIATE SUPPORTS
- SUPPORTS

(2) SIMPSON CSI6 STRAP WITH 8d NAILS. (EXTEND TO WALL TOP PLATE AND EXTEND 20" UNDER HEADER).

> ATTACH KING STUD TO SUPPORT STUDS WITH IOd NAILS @ 8" OC.

MIN (2)2X SUPPORT STUDS AND (I) KING STUD (SEE PLAN FOR STUD COLUMN REQUIREMENTS).

> ろ ANCHOR BOLTS PER R403.I.6 WITH 2"x2"x36" PLATE WASHERS.



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



BUILDING DESIGN

- PROJECT # 16-1591-6L 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's liability Seal is valid for a project permitted within one year from date of seal. Use of these plans constitutes approval of terms 4 conditions as defined in the customer agreement.

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

2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 1/16", 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.

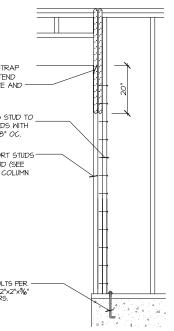
4. <u>"HD" = HOLDOWN:</u> HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS.

**GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET

**UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.

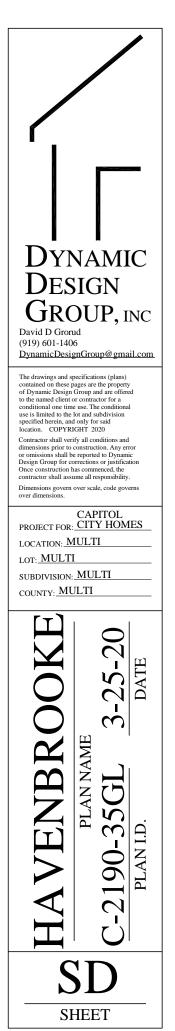
5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT

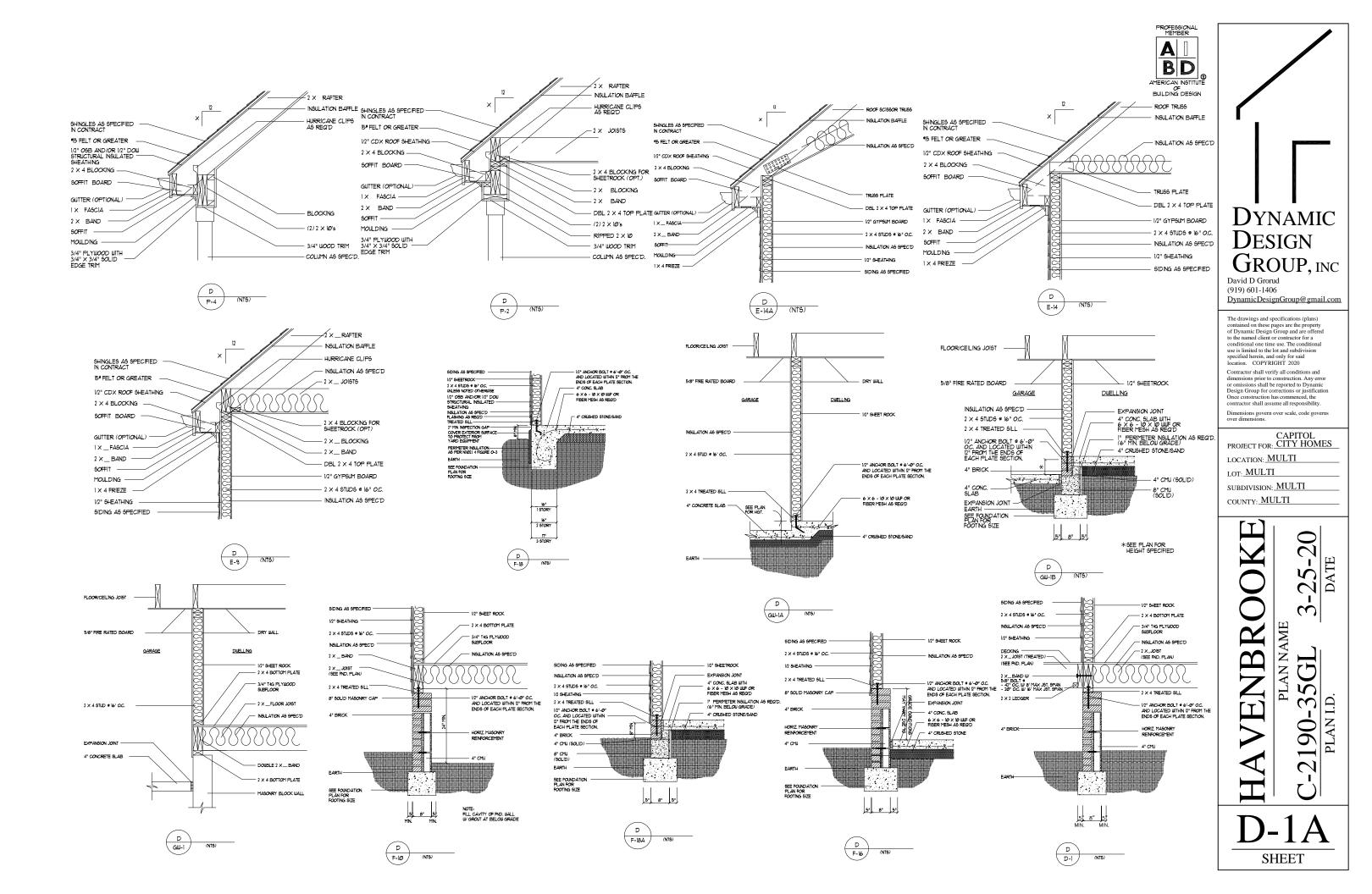
6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 16" WSP SHEATHING WITH & MAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES ATTACH GB OVER WSP AS REQUIRED ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE

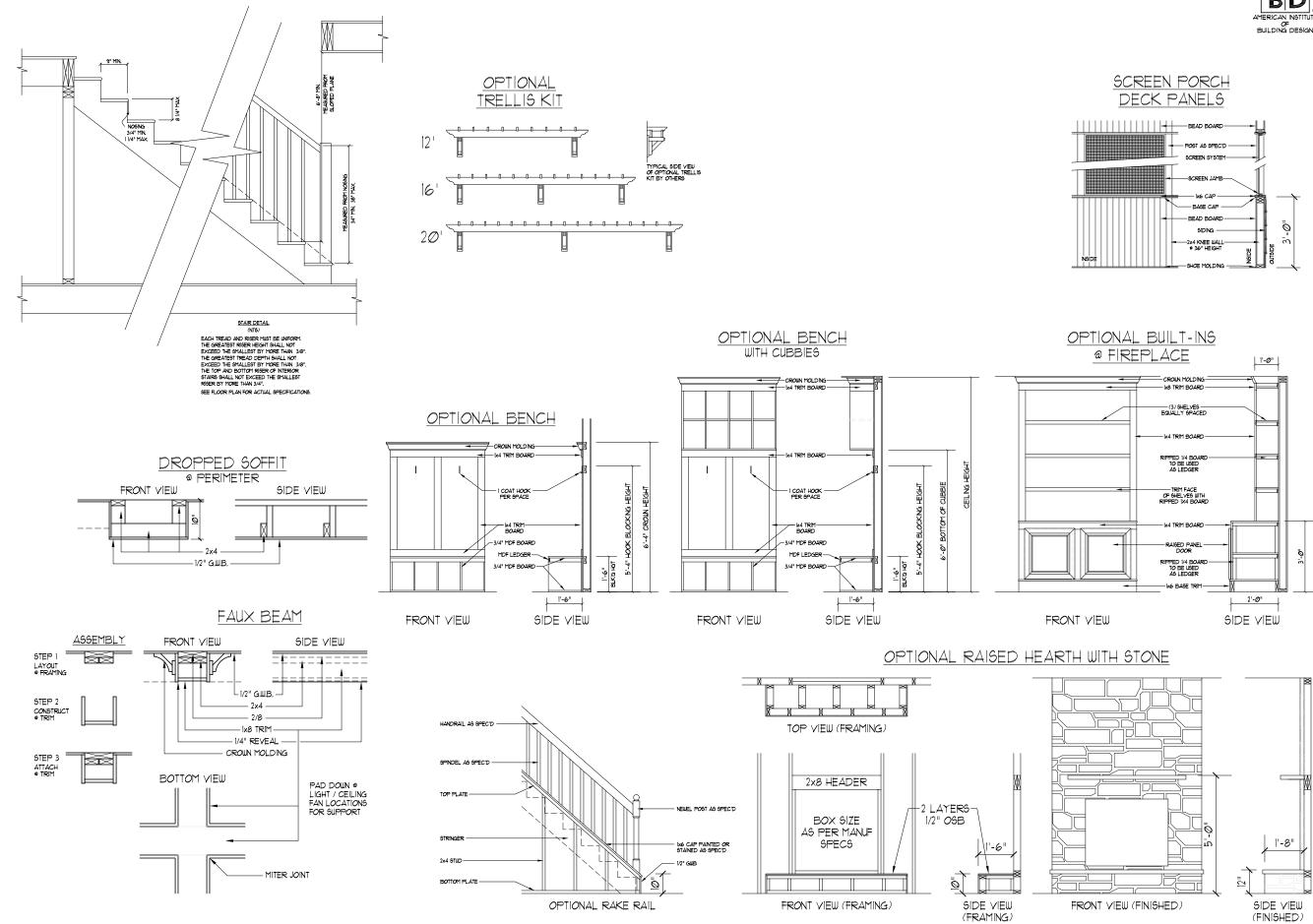


CS-PF: END CONDITION DETAIL (FOR USE WITH SINGLE CS-PF CONDITION)

DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

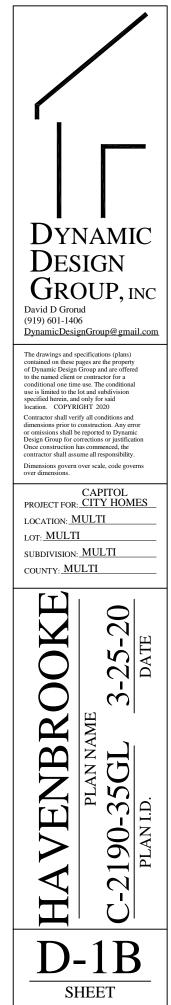


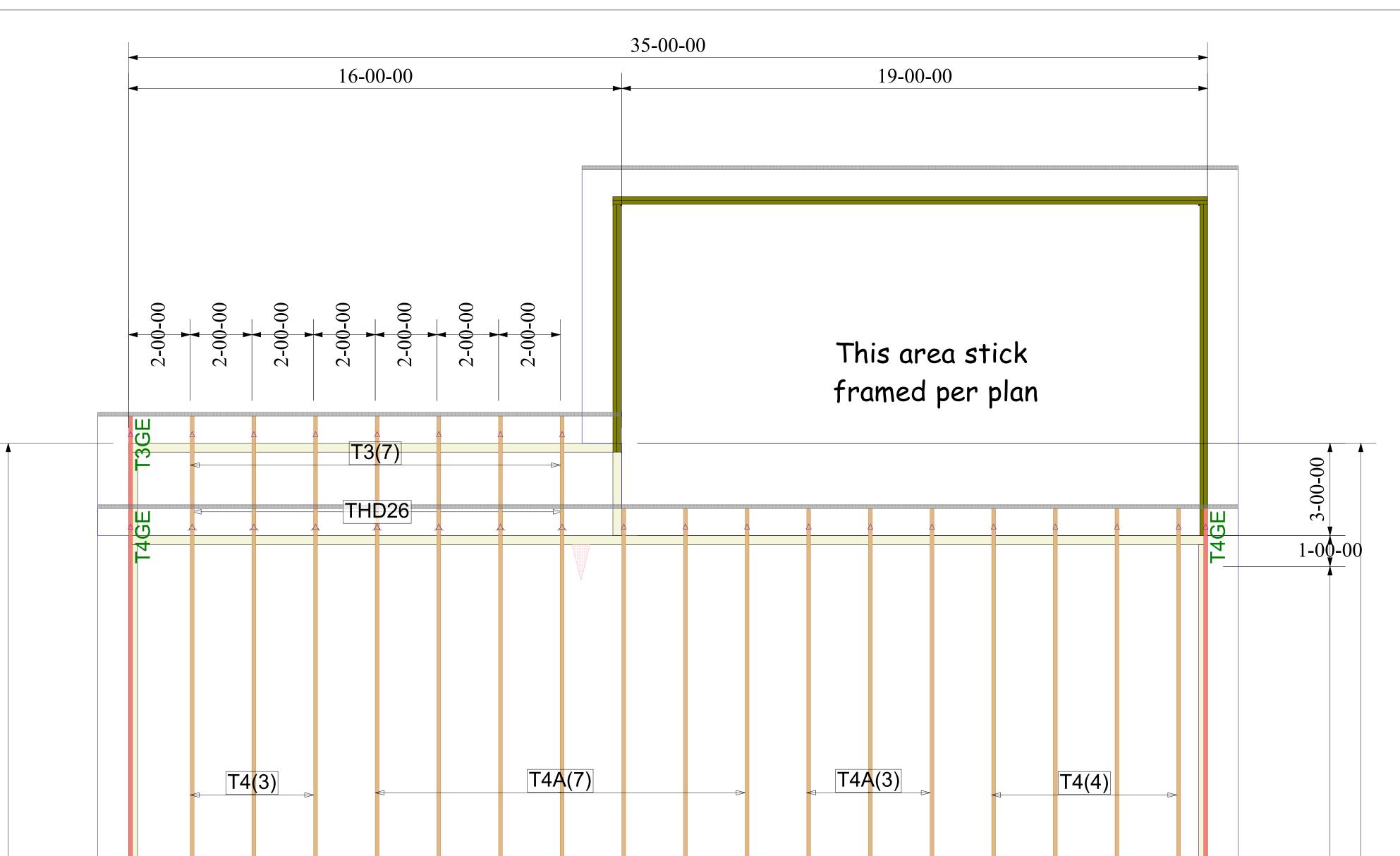




(FRAMING)

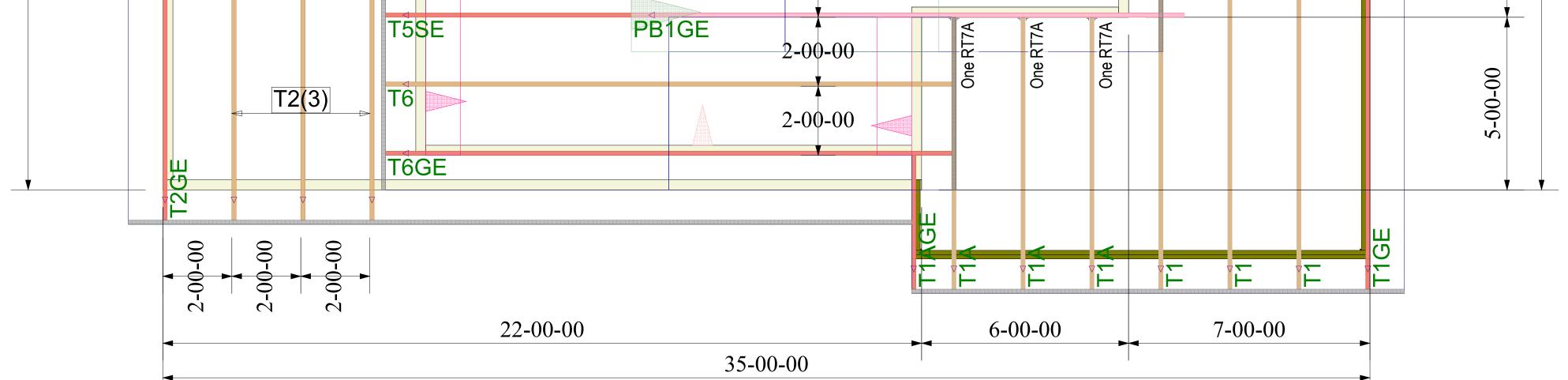






2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 2-00-00 32-08-00 45-08-00 **V7 V**6 V5 **V**4 V3 **V**2 V1 THD26 THD26 THD26 THD26 THD26 THD26 THD26 THD26 THD26 PB1GR T5GR One RT7A One RT7A One RT7A THD26 THD26 THD26 2-00-08 4-00-00 PB1 **T**5 2-00-00

45-08-00



Truss Connector Total List			Truss C	connector Tota	I List
Manuf	Product	Qty	Manuf	Product	Qty
	One RT7A	36	USP	One RT7A	26
USP	THD26	10	USP	THD26	10

ROOF LAYOUT DRAWING SCALE : NTS

PROJECT NUMBER 20070044 SHEET NUMBER	REVIS DATE 7-10-20	BY MF	Capitol City Homes	
1/1			106 The Crossings	Building Materials
• / •			ROOF TRUSS LAYOUT	A Division of the Carter Lumber Company