NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes
and is subject to field inspection and verification.

### **APPROVED**

Limited building only review Permit holder responsible for full compliance with the code

05/13/2020





# TRILLIUM H&H HOMES

## PLAN REVISIONS

1) ADDED BASEMENT PLAN (10-09-19) 1) UPDATED TO SC 2018 IRC (10-0-19)

REVISION DATE: 2-10-20

1) UPDATED OWNER'S BATH LAYOUT, CHANGED THE TUB FROM 5'-6" TO 5'-0"

2) CHANGED THE WALL BEHIND THE VANITIES IN THE OWNER'S BATH FROM A 2X6 TO A 2-2X6 AND SHIFTED THE VANITIES 5 1/2" INTO THE OWNER'S BATH. THIS IS TO ALLOW MORE ROOM FOR THE DOOR TO THE LAUNDRY.

3) UPDATED THE 2ND FLOOR WINDOW HEADERS FROM 6'-8" TO 7'-0"

SQUARE FOOTAGES	
AREA	ELEV 'A
ist FLOOR	ITITS
2nd FLOOR	962 SF
TOTAL LIVING	26T9 SF
GARAGE	422 SF
PORCH	113 58
OPT. COVERED PATIO	+130 SI
OPT, LOFT / BONJS RM	+258 SF
OPT, WRAP-AROUND PORCH	+IO2 SI
OPT. 3-CAR GARAGE	240 SF
OPTBASEMENT	15.25 SF

SQUARE FOOTAGES		
AREA	ELEV B'	
ist FLOOR	ITIT SP	
2nd FLOOR	953 SF	
TOTAL LIVING	2670 SF	
GARAGE	422 5F	
PORCH	182 SF	
OPT COVERED PATIO	+130 SF	
OPT. LOFT / BONJS RM	+258 SF	
OPT, WEAP-AROUND FORCH	1108 SF	
OPT, 3-CAR GARAGE	24 <i>0</i> SF	
OPT-BASENENT	1525 SF	

SQUARE FOOTAGES		
AREA	ELEV C	
Ist FLOGR	I7IT SE	
2nd FLOCR	960 SF	
TOTAL LIVING	2611 SF	
GAR4GE	422 SF	
PORCH	146 SF	
OPT, COVERED PATIO	+130 SF	
OPT, LOFT / BONUS RM	+258 SF	
OPT, FRAP-AROUND FORCH	+108 SF	
OPT, 3-CAR GARAGE	240 SF	
OPT BASEMENT	1525 SF	

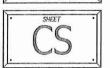
DRAWINGS ON 11"XI"1" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE

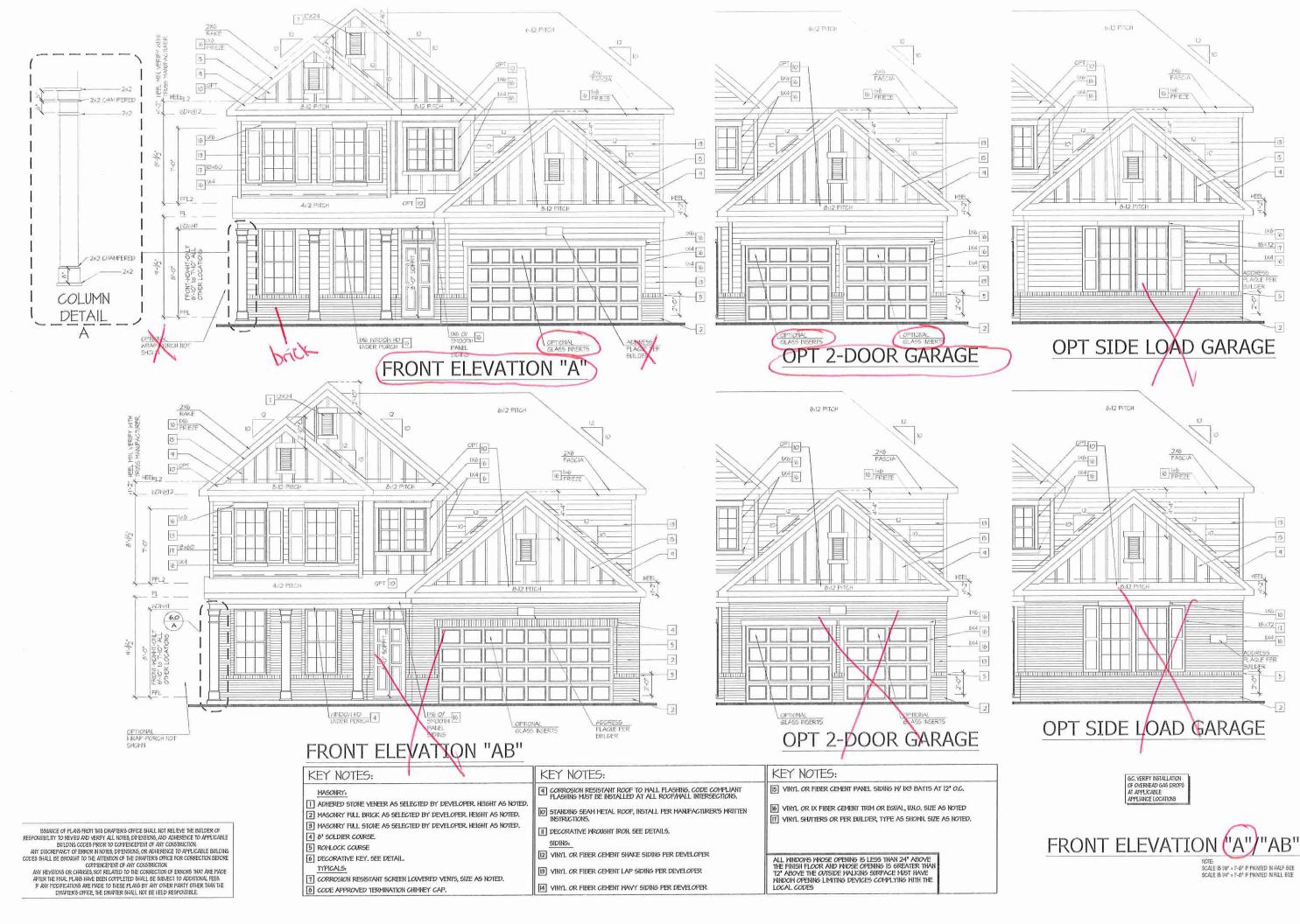
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EQUACE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BILLDER OF RESPONSIBILITY TO REVIEW AND VENET ALL HOTES, DYDENSIONS, AND ADJENENCE TO APPLICABLE BULDING CODES PRIOR TO CONTRICIENT OF ANY CONSTRUCTION. ANY DISCREPANCY OF PERSON ROYED, DYDENSIONS, OR ADJENENCE TO APPLICABLE BULDING CODES SHALL BE BROUGHT TO THE ATHERICATOR THE DRAFTER'S OFFICE FOR CORRECTION DEFORE CONTRICION OF ANY CONTRICION. ANY REVISIONS OR CHARLES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE THALL PLANS HAVE BEEN CONTRICIED SHALL BE GUINECT TO ADDITIONAL HERS. IF ANY DEPOCRATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.





\*\*\*JCB NUMBER 27167.07 \*\*
CAD FILE RAME TRILLIUM
ISSUED 09-16-19
REVISED 02-10-20

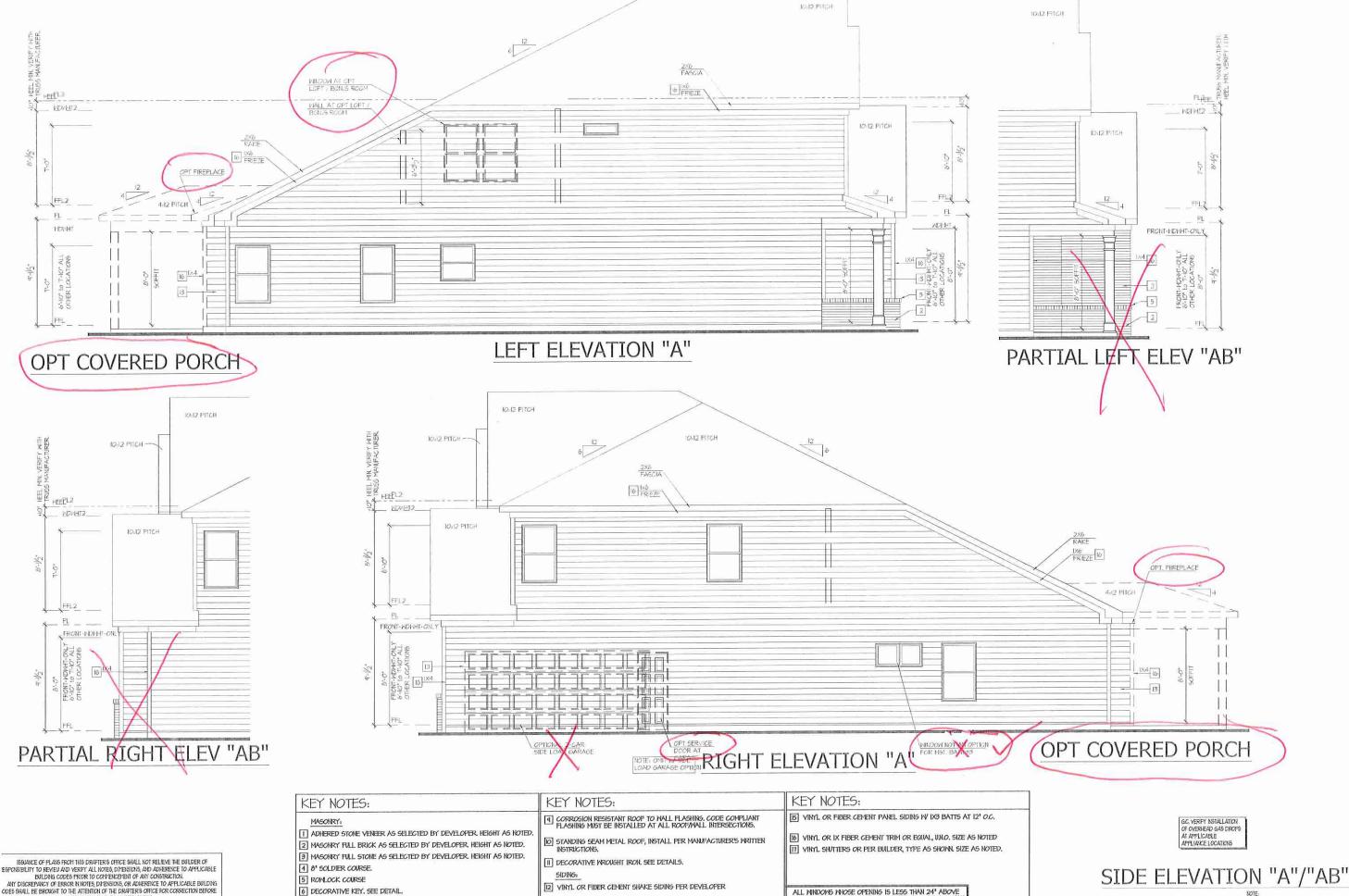
DRAWINGS ON II"XIT" SHEET ARE ONE HALF THE SCALE NOTED

E RIGHT

TRILLIUM - GARAGE RIC H&H HOMES

FRONT ELEVATIONS 'A/AB'
GARAGE OPTIONS

A6.0



BUILDING CODES FROM TO CONTEXE PIENT OF ANY COSTINUCION.

ANY DISCREPANCY OF ERSON NINDTES, DYPENSION, OR ADVERSIONE TO AFFEICABLE BUILDING

COES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFFERS OFFICE FOR CORRECTION BEFORE

CONTEMENTATION OF COSTINUCION.

ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERSONS THAT ARE MADE

AFTER THE FIRM, PLANS NAVIE BEEN CONTEMED SHALL BE SUBJECT TO ADDITIONAL THES.

F ANY POSTOCIATION ARE MUDE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE

DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

- 1 CORROSION RESISTANT SCREEN LOWERED VENTS, SIZE AS NOTED.
- B CODE APPROVED TERMINATION CHIMNEY CAP.
- IF VINYL OR FIBER CEMENT LAP SIDING FER DEVELOPER 4 YIM'L OR FIBER CEMENT WAYY SIDING PER DEVELOPER

ALL MINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN T2" ABOVE THE OUTSIDE WALKING SURFACE MIST HAVE MINDOM OPENING LIMITING DEVICES COMPLYING WITH THE LOCAL CODES

NOTE: SCALE IS VO" = 1'-0' IF PRINTED IN HALF SIZE SCALE IS V4" = 1'-0' IF PRINTED IN RULL SIZE

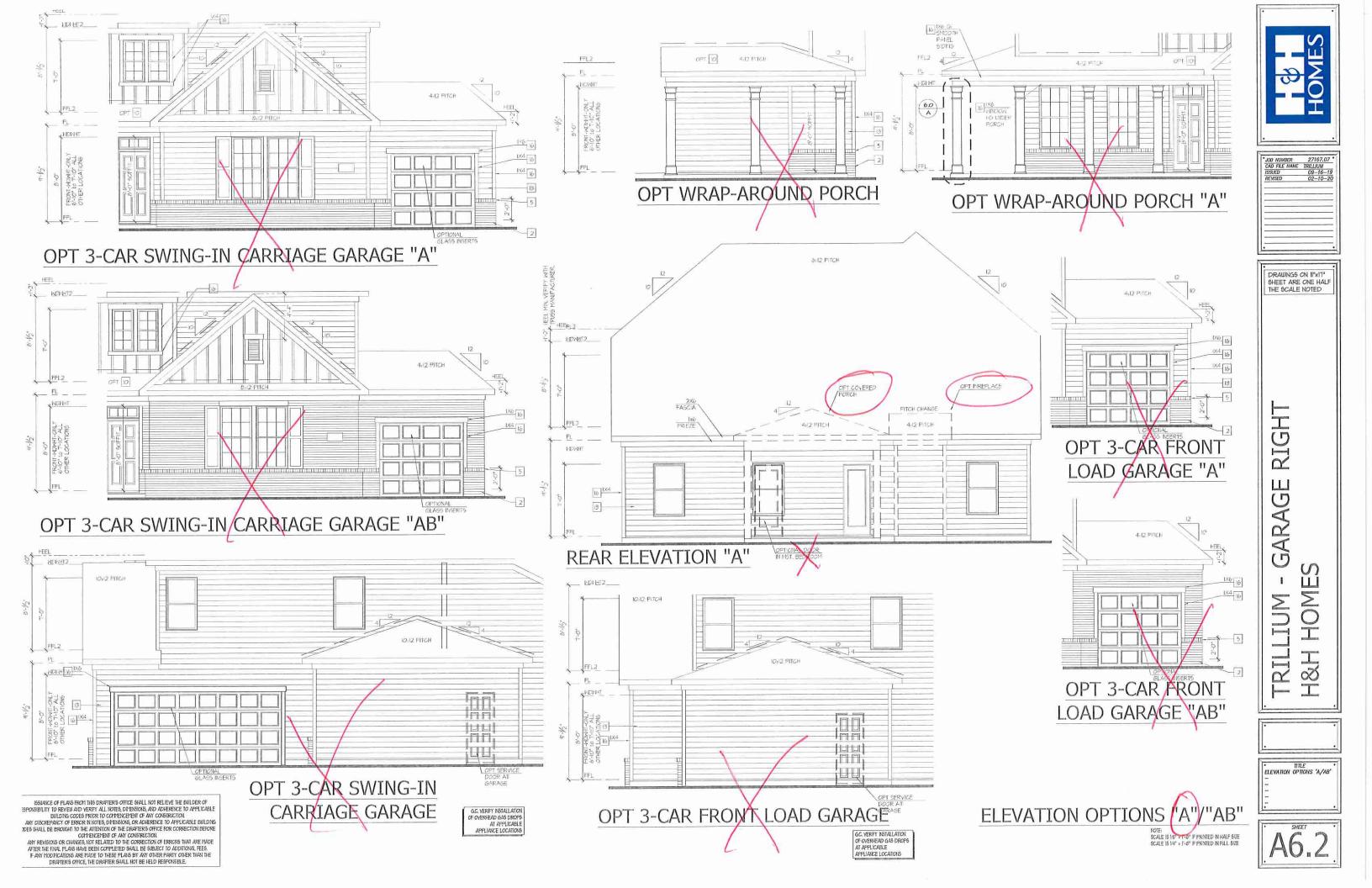


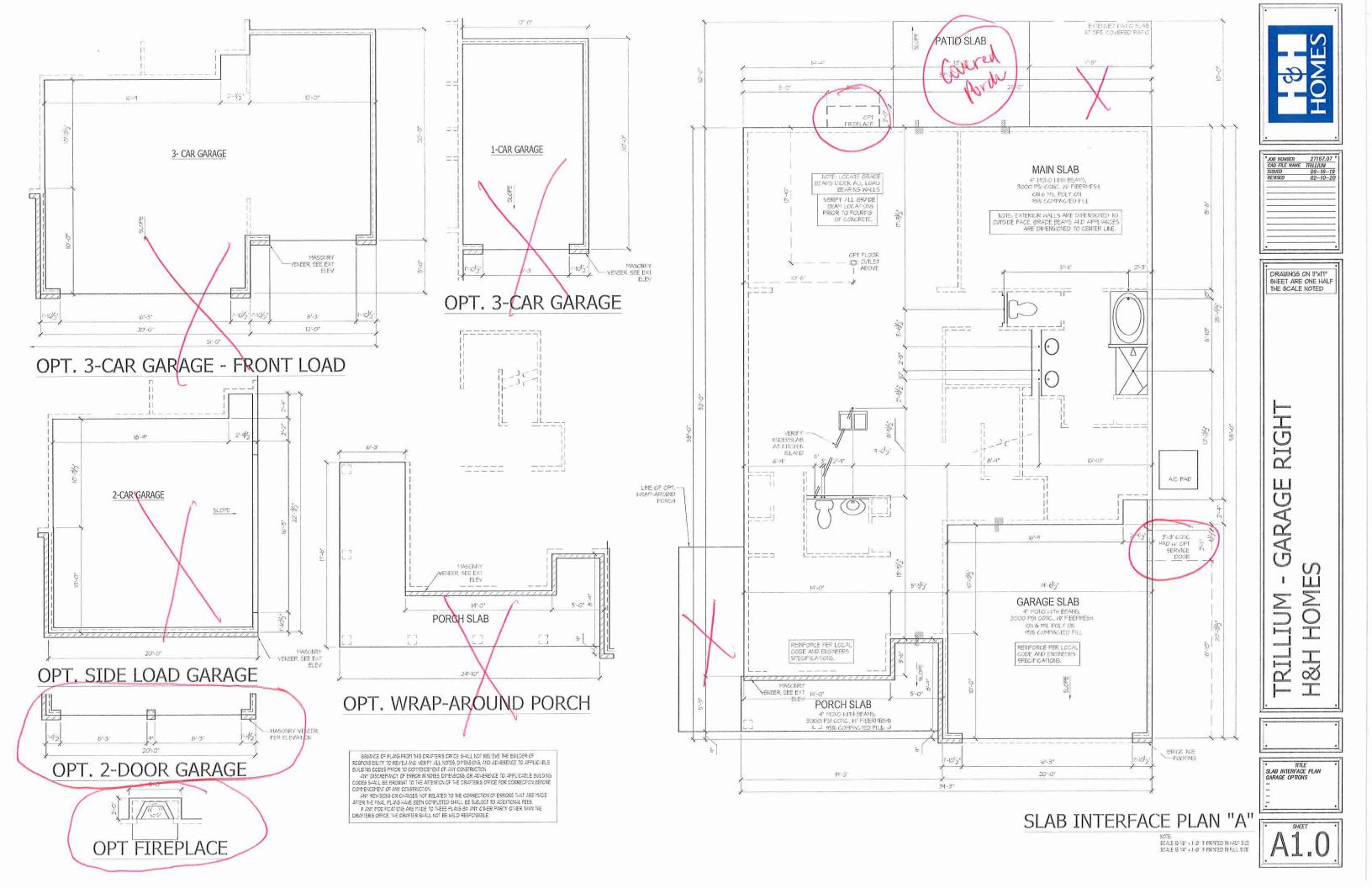
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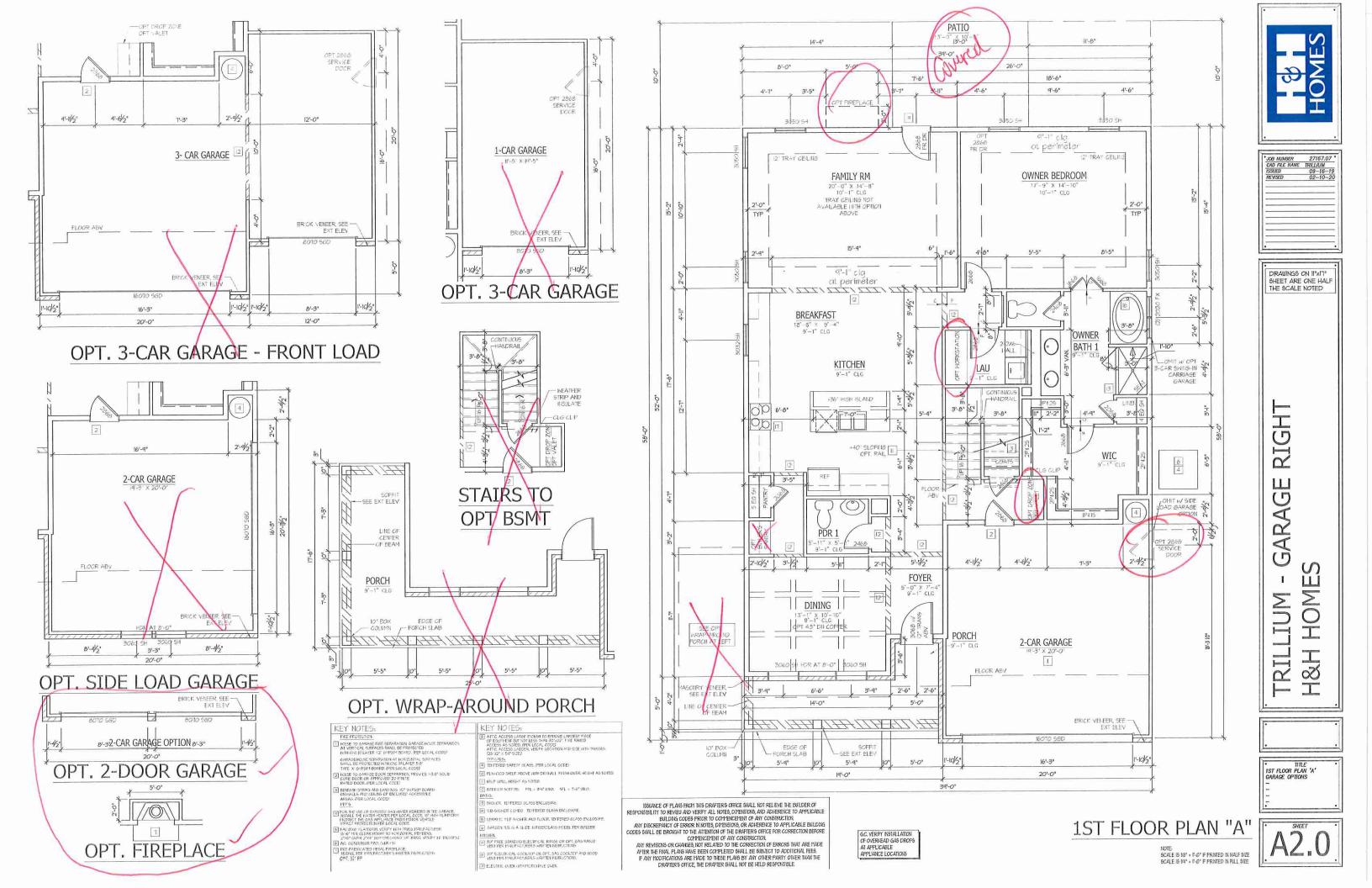
RIGHT GARAGE MO N T RIL

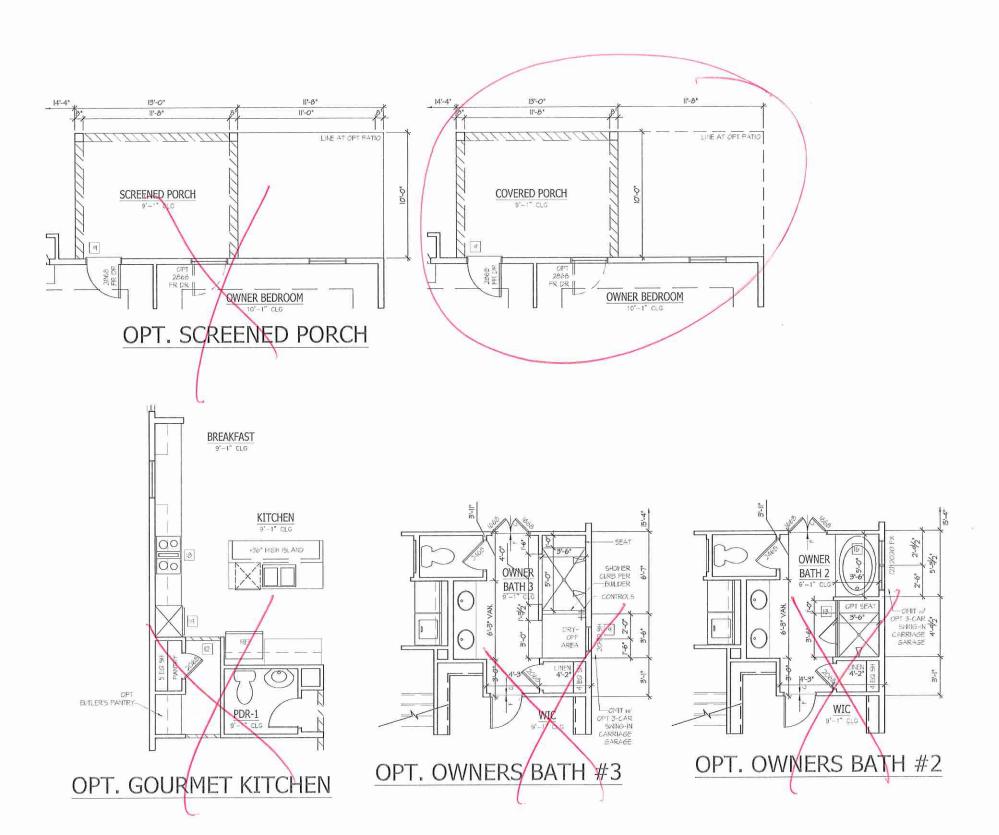
SIDE ELEVATIONS 'A/AB'

A6.1



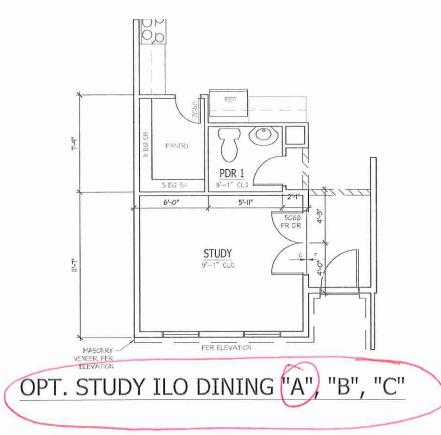


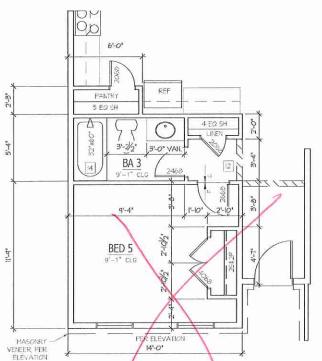




ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERBY ALL NOTES, DIPENSIONS, AND ADTERENCE TO AFFLICABLE BUILDING CODES PROR TO CONTENCEMENT OF ANY CONSTRUCTION.

BUILDING CODES PRIOR TO CONTEXENTENT OF ANY CONSTRUCTION.
ANY DECREPANCY OF ERROR IN 1015E, DYTHOSONS, OR ADJECTION OF APPLICABLE BUILDING
CODES SHALL BE ERROUGH TO THE ATTENTION OF THE DRAFTERS OFFICE FOR CORRECTION BEFORE
CONTEXESTED OF ANY CONSTRUCTION.
ANY REVISIONS OR CHALLES, BUT RELATED TO THE CORRECTION OF ERRORS HIAT ARE MADE
AFTER THE RIVIN FLANS HAVE BEDIT CONFLICTED SHALL BE SUBJECT TO ADDITIONAL FEES.
FAILY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE
DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.





OPT. BED 5/ BATH/3 ILO DINING "A", "B", "C"

GC. VERFY INSTALLATION OF OVERVEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS ELECTRICAL PLAN ON PLAN OPTIONS

NOTE:

SCALE 15 VA': \* 1'-0' F FRNIED N HALF SIZE

SCALE 15 VA': \* 1'-0' F FRNIED N RALL SIZE

A

SHEET

SHEET

IST FLOOR PLAN OPTIONS

DRAWINGS ON II"xIT"

RIGHT

GARAGE

RIL

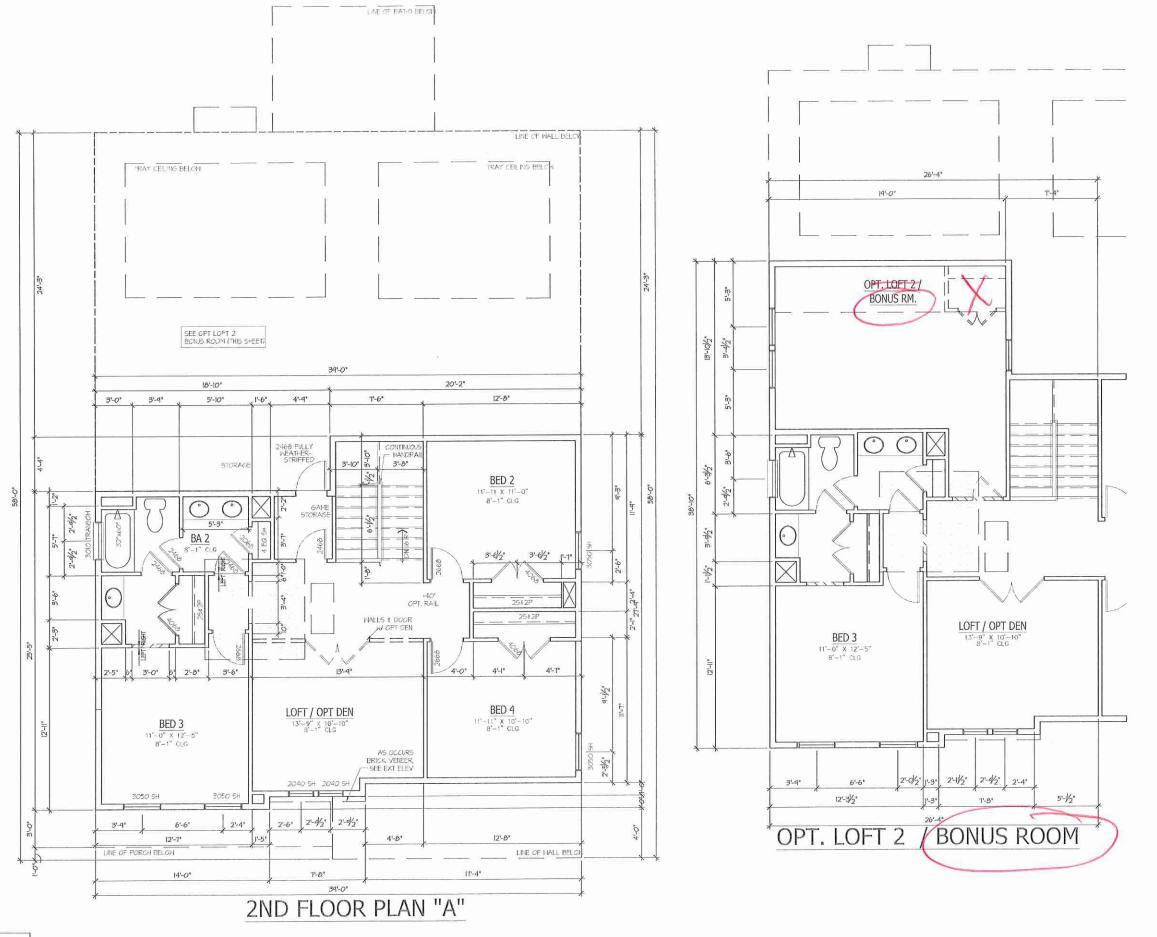
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SHEET ARE ONE HALF THE SCALE NOTED

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ISSUNCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND YERRY ALL NOTES, DYTHISONS, AND ADMERICE TO APPLICABLE BUILDING CODES PRIVER TO CONTENDED IN OF AN CONSTRUCTION.

AND DISCREPANCY OF ERROR IN NOTES, DYTENSIONS, OR ADMERICE TO APPLICABLE BUILDING CODES SHALL BE REQUISIT TO THE ATTENDION OF THE FORFICER'S OFFICE FOR CORRECTION BEFORE CONTENDED TO ANY CONTENDED AND REPORTS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEED CONFIDENCE BHALL BE RESPONSIBILE.

F ANY MODERICATIONS ARE HADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

2ND FLOOR PLAN "A"

GC, VERFY INSTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

NOTE: SCALE IS V8" + I'-0" IF FRAITED IN HALF SIZE SCALE IS V4" + I'-0" IF PRAITED IN RULL SIZE

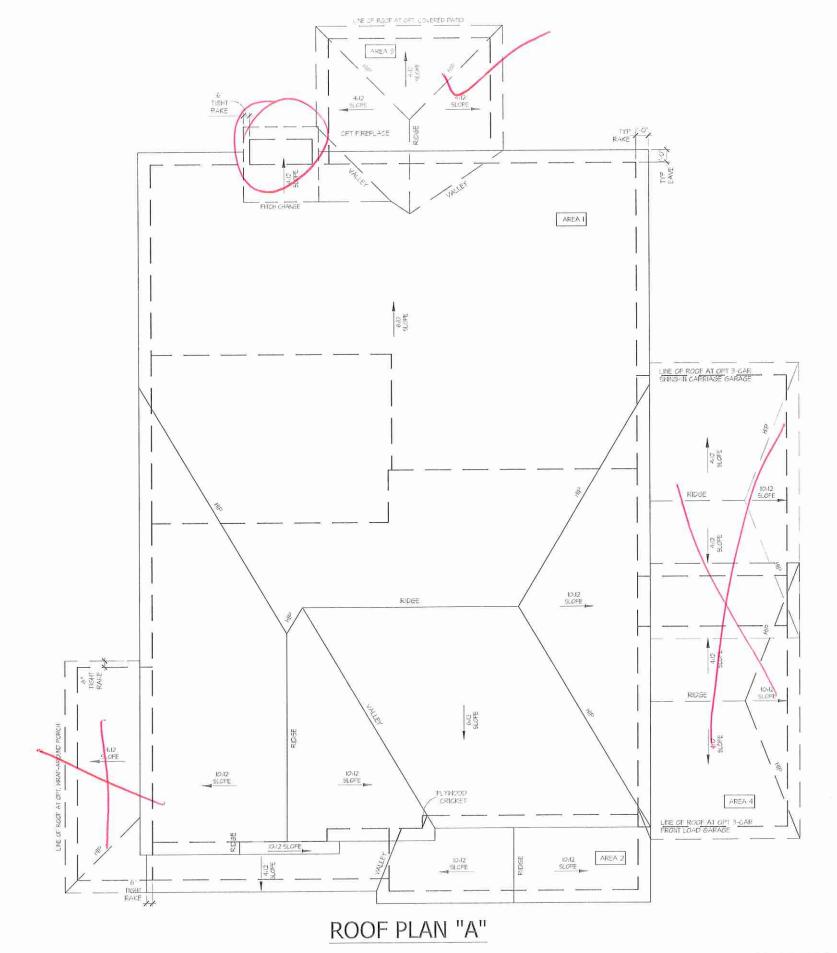


\*JOB NUMBER 27167.07 \*
CAD FILE NAME TRILLIUM
ISSUED 09-16-19
REVISED 02-10-20

DRAWINGS ON II"xIT" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE Ш RIL  $\mathbb{Z}$ 工

2ND FLOOR PLAN 'A' BONUS ROOM OPTION



TOTAL UNDER ROOF AREA: VENTING AREA REQUIRED: TOTAL REQUIREMENTS:

LOWER AREA VENTING SOFFIT VENT

UPPER AREA VENTING RIDGE VENT

TOTAL AREA PROVIDED
SOFFIT AND RIDGE VENT

UPPER AREA VENTING PROVIDED:



\*JOB NUMBER 27167.07 \*
CAD FILE NAME TRILLILIM
ISSUED 09-16-19
REVISED 02-10-20

DRAWINGS ON 11"x|1" SHEET ARE ONE HALF THE SCALE NOTED

TRILLIUM - GARAGE RIGHT H&H HOMES

ROOF PLAN 'A'

ROOF PLAN 'A'

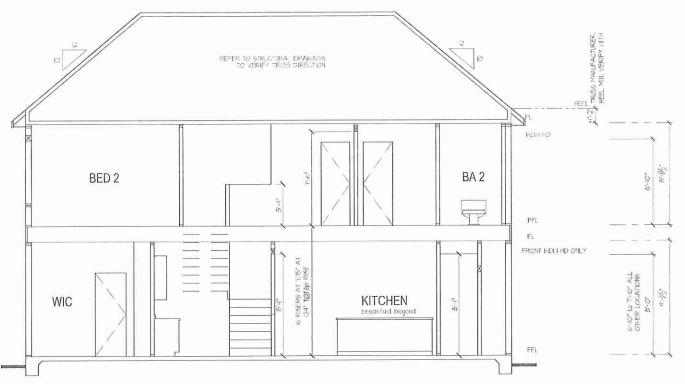
ROOF PLAN "A"

NOTE:
SCALE IS 14" : 1-0" IF FRANTED IN HALF SIZE
SCALE IS 14" : 1-0" IF FRANTED IN HALF SIZE

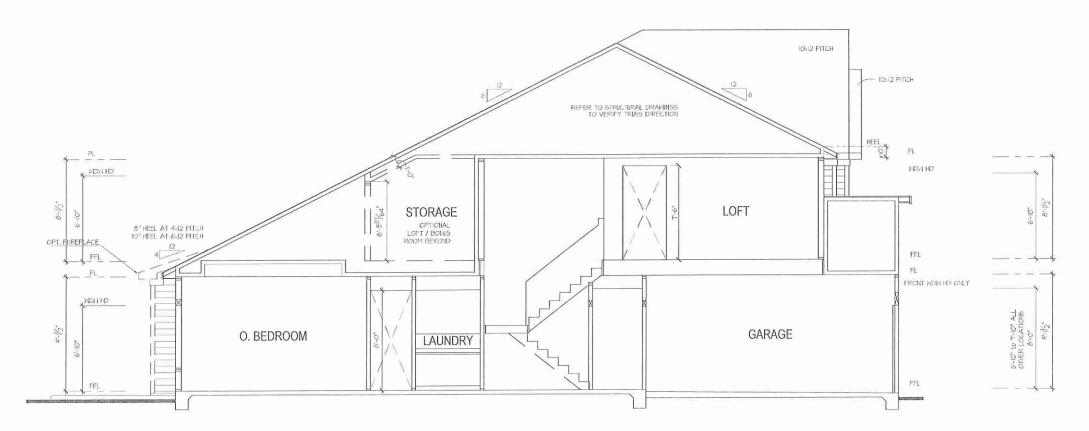
SCALE IS 14" : 1-0" IF FRANTED IN HALF SIZE

| A4 | 0 |

GC, VERFY NOTALLATION OF OVERVEAD GAS DROFS AT APPLICABLE AFFLIANCE LOCATIONS



## **BUILDING SECTION 1**



**BUILDING SECTION 2** 

GC. YERFY INSTALLATION OF OVER-EAD GAS DROPS AT AFFLICABLE AFFLIANCE LOCATIONS

**BUILDING SECTION** 

NOTE: SCALE IS V8" = 1'-0" F FRNIED IN HALF SIZE SCALE IS V4" = 1'-0" F FRNIED IN FULL SIZE

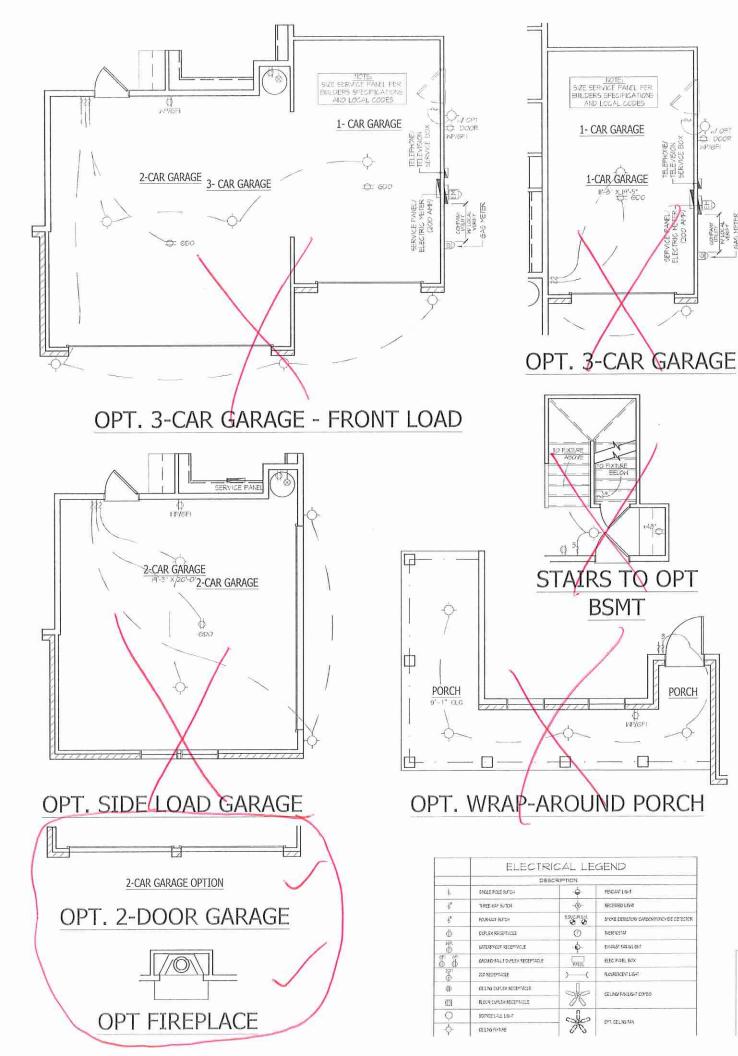


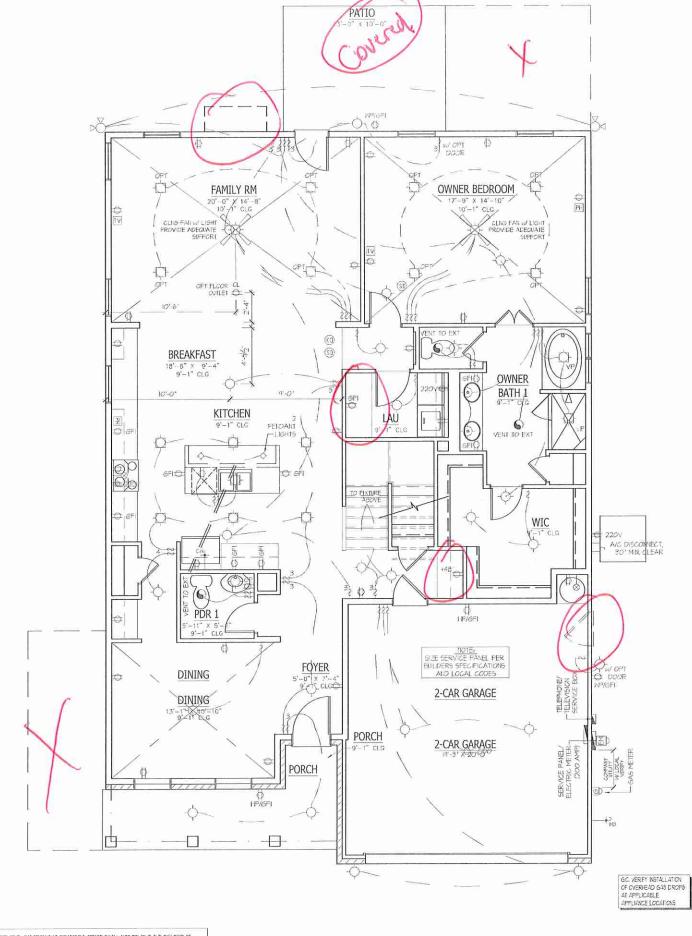
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SSUED	09-16-19
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DRAWINGS ON II"xIT" SHEET ARE ONE HALF THE SCALE NOTED

TRILLIUM - GARAGE RIGHT H&H HOMES

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ISSUANCE OF PLANS FROM THIS DRAFTERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERTH ALL NOTES DY BASIONS, AND ADDIFFERNET TO APPLICABLE BUILDING CODES FROM TO CONFEIGHFAIL OF ANY CONSTRUCTION ANY DISCREPANCY OF REPORT IN NOTES, DY PROSINGS, OR ADDIFFERNET TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTERS OFFICE FOR CORRECTION BEFORE CONFEIGHT OF ANY CONFRIGION.

ANY REVISIONS OR CHANGES NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FAM, FLANS HAVE BEEN CONFILETED SHALL BE SUBJECT TO ADDITIONAL THES. IF ANY PODPICATIONS ARE MADE TO THESE PLANS BY AND THE PARTY OTHER THAN THE DRAFTERS OFFICE THE DRAFTERS SHALL NOT BE HELD RESPONSIBLE.

ELECTRICAL PLAN "A"

5CALE IS 18" : 1"-0" F FRINTED IN HALF SIZE SCALE IS 14" : 1"-0" F FRINTED IN FULL SIZE

DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT

GARAGE

RILL

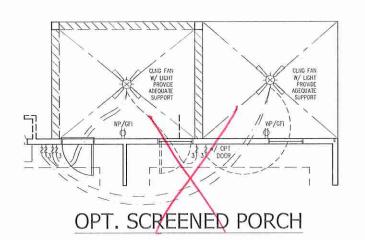
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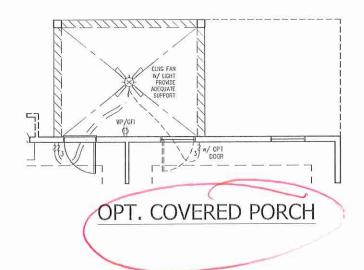
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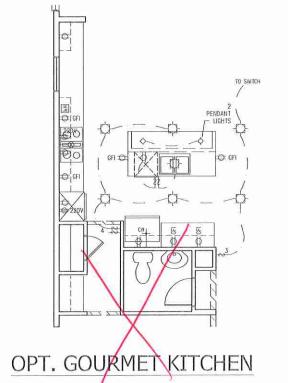
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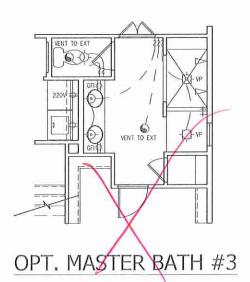
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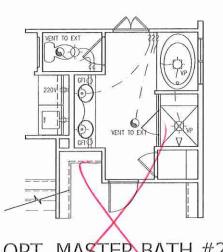
ELECTRICAL 1ST PLAN 'A'



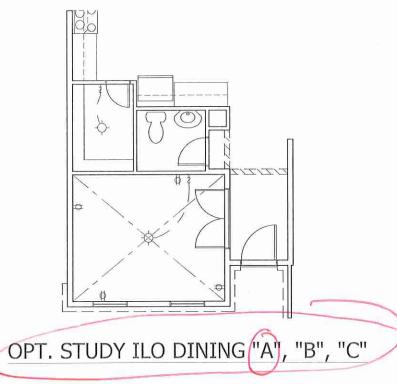


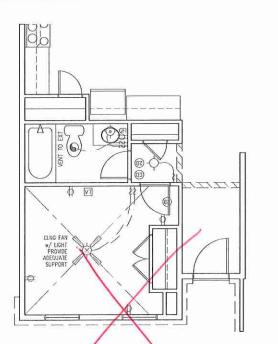












OPT. BED 5/ BATH 3 ILO DINING "A", "B", "C"

ISSUANCE OF PLANS FROM THIS ORNTER'S OFFICE SHALL NOT RELEVE THE BULGER OF RESPONSEULTY TO REVEW AND VIREY ALL NOTES DATES/SINS, AND ARREPOLET TO APPLICABLE BULDING CORES FROM TO COMPRISORDER OF ANY CONSTRUCTION.

ANY ROSPERANCE OF ERROR IN MOIES, CAMPISORS, OR PARFERNE TO APPLICABLE BULDING COMES SHALL BE ERRORDED TO THE ATTENDING OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMPRESSION OF ANY CONTROLLED AND THE ANY CONSTRUCTION.

ANY REVISION OF CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE TRIAL FUNDS ENGLISHED SHALL BE SUBJECT TO ADDITIONAL TESS.

FAME WORDCHARDS ARE WERE TO THESE FLANS BY ANY OTHER PRIVEY OTHER THAN THE DAVITER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

G.C. VERFY DISTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

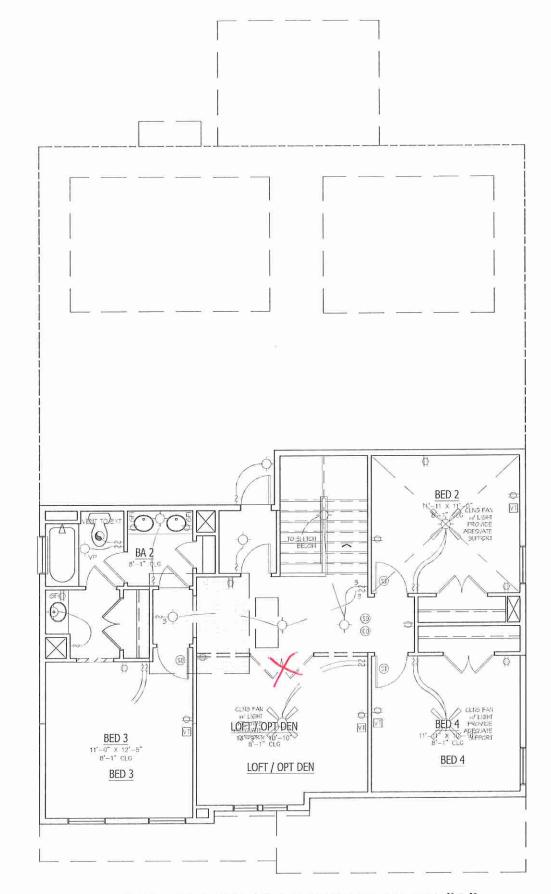
ELECTRICAL PLAN ON PLAN OPTIONS

NOTE: SCALE IS 1/8" = 1"-0" IF PRINTED IN HALF SZE SCALE IS 1/4" = 1"-0" IF PRINTED IN FULL SZE GARAGE RIGHT



INE IST FLOOR PLAN





2ND FLOOR ELECTRICAL PLAN "A"

ISSUANCE OF PLANS FROM 14-5 DRAFTERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEU AND VERRY ALL NOTES, DIMENSIONS, AND ADHERENCE TO AFFILICABLE RESPONSIBILITY TO REVISE AND VERTH ALL NOTES, DIPOSIONS, AND ADTERNACE TO APPLICABLE BUILDING CODES PROGE TO COMPOSITION OF ANY CONSTRUCTION.

ANY DISCREPANCY OF ERROR IN NOTES DIPOSIONS, OR ADHERINGE TO APPLICABLE BUILDING CODES SHALL BE BEAUGHT TO THE ATTRIBUTION OF THE DRAFFLESS OFFICE FOR CORRECTION BEFORE CONTINUED TO ANY CONSTRUCTION.

ANY REVISIONS OR CHANGES NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL PIECE. FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL PIECE.

FINAL YOUR CATCOM SAIR MADE TO THESE PLANS BY ANY OTHER PRAINT OTHER THAN THE DRAFFERS CIFICE THE DRAFFER SHALL NOT BE HELD RESPONSIBLE.

ELECTRICAL EGEND

THREE-LIAY SUITCH FOUR-LIAY SUITCH DUPLEX RECEPTAGLE

LIATERFROOF RECEPTAGLE

CEILNG CUPLEX RECEPTAGLE FLOOR DUPLEX RECEPTACLE

SCONCE/LIALL LIGHT

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EXHAUST FAN UIL GAT

CELNG/ F4N LIGHT COMEO

ELEC PANEL BOX

OPT, CEILING FAN

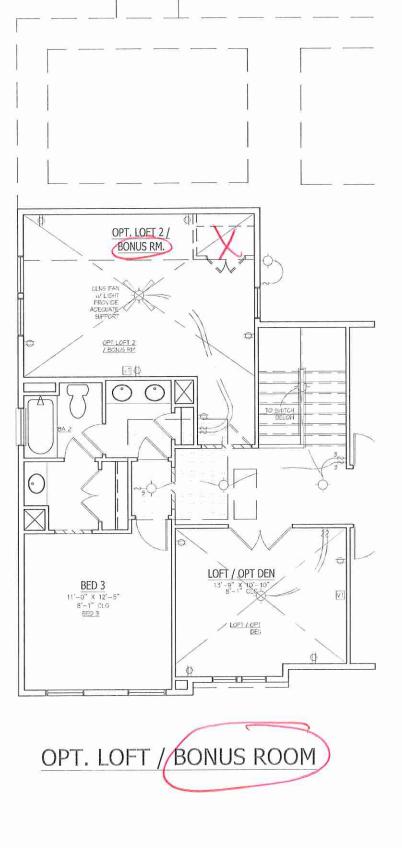
FLOURESCENT LIGHT

SHOKE DETECTOR/ CARBON MONOX DE DETECTOR

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GROUND FAULT DUPLEX RECEPTAGLE



GC VERFY INSTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

2ND FLOOR ELECTRICAL PLAN "A" E2.0A





DRAWINGS ON II"x17" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAG TRILLIUM o 以 工

• TITLE ELECTRICAL 2ND PLAN 'A'



1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951 (215) 804-4449 www.kse-eng.com

## **TRILLIUM**

## NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER), SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

#### DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):

· 2018 MORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

- ON THE LOADS:

  ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)

  ONNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)

  HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STARS = 30 PSF
- . FLOOR = 40 PSF
- · FLOOR (SLEEPING AREAS) = 30 PSF
- · DECK = 40 PSF
- BALCONY = 40 PSF STAIRS = 40 PSF

#### DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5) · FLOOR JOIST = 10 PSF
- · QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.1.

- · ULTIMATE WIND SPEED = Up to 130 MPH
- EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

· TJI 210 SERIES (SERIES AND SPACING PER PLANS)

• LSL: E=1,550,000 PSI, F<sub>8</sub>=2,325 PSI, F<sub>V</sub>=310 PSI, F<sub>0</sub>=900 PSI

• LYL: E=2,000,000 PSI, F<sub>8</sub>=2,600 PSI, F<sub>V</sub>=285 PSI, F<sub>C</sub>=750 PSI

• PSL: E=2,100,000 PSI, F<sub>8</sub>=2,900 PSI, F<sub>V</sub>=290 PSI, F<sub>C</sub>=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301.1.3.





Carolina

H H

Trillium Model 120 M.P.H. North Carolina Cover

Sheet

Project #: 105-16011

Designed By: KRK Checked By:

Issue Date: 4/8/19 Re-Issue: 12/3/19 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

#### GENERAL STRUCTURAL NOTES:

- 1. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER), FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE.
  NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL
  ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER, FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND MISE ENGINEERING SHALL BE CONSIDERED THE SALIE ENTITY.

  2. THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE
- CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT OCUMENTS SHOULD ANY NON-CONFORMILIES OCCUR.
- 4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY, THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO
- 5. ANY STRUCTURAL FLEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE PUCTURAL DESIGN OF THIS PROJECT, VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
  DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE
- OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- 10. PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL

- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
- 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL
- 3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR, SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED. THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- 5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS, MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS, 1/6" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR
- ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER, THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95%8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6
- MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- 9. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, IGE, FROST, OR LOOSE MATERIAL.

  10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE
- SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- 11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DESRIS. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER, ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

#### CONCRETE & REINFORCING

- CONCRETE DESIGN BASED ON ACT 318 AND ACT 318.1 OR ACT 352: CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMU. COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN.
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACT 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACL 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- 3. AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL FLEMENTS EXPOSED TO ERFEZE/THAY CYCLES AND DEICHIG CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.
- NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER, WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAS AND SLAS CONSTRUCTION".
- 5. CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-CRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED, CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-BEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.

  10. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING
- 11. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- 12. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
- 13. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED
  - #4 BARS 30" LENGTH #5 BARS - 38" LENGTH
- #6 BARS 45" LENGTH
- 14. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING, SEE KSE FOUNDATION DETAILS.
- 15. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 16. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACL MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER NO ROCKS, CMU, CLAY ILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

- ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSL ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF 36" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACL 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- 4. EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER
- TOP COURSE OF MASONRY SHALL BE GROUTED SOLID 6. HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS
- SHOWN OTHERWISE ON THE DRAWINGS. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.

#### WOOD FRAMING:

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL ESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS), UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- E=1,400,000 PSI,  $F_b=875$  PSI,  $F_v=135$  PSI 1.1. FRAKING: SPF #2.
- 1.2. PLATES: SPF #2.
  1.3. STUDS: SPF STUD GRADE.
  WALL STUD SPACING, (MAXIMUM 10' NOMINAL PLATE HEIGHT): 1 & 2 STORY EXTERIOR AND INTERIOR BEARING:
- 2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O. BOTTOM OF 3 STORIES EXTERIOR AND INTERIOR BEARING: 2x6 @ 16" O.C., U.N.O.
- INTERIOR NON-BEARING: 2x @ 24" O.C., U.N.O.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY, LARGER MEMBERS MAY
- BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
- INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STACGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD
- TRANSFER. WALL SHEATHING SHALL BE MAILED TO EDGE OF EACH STUD. FACE MAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON MAILS @ 16" O.C., STAGGERED, OR PER MANUFACTUREP'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- 10. EASTEN 4-PLY BEAMS WITH (1) 3" DIAMETER THROUGH BOLT W/ NUTS. AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1/2" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS
- 12. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. (1) STUD UP TO 6' OPENING (2) STUDS UP TO 8' OPENING (3) STUDS UP TO 9' OPENING
- 13. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
- 14. SOUID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED. 16. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE
- RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS 17. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN
- THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS, ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE
- WITH OSB OR GYPSUM BOARD, BRIDGING SHALL BE INSTALLED GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER.

### EXTERIOR WOOD FRAMED DECKS:

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW
- PINE #2 OR BETTER.
- GUARD RAILS REQUIRED AT DECKS, DESIGN BY OTHERS TO MEET MINIMUM CODE REQUIREMENTS.
- 4. PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING

#### RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2×4×4'-0" RAFTER TIES AT 48" O.C. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN, PURLIN BRACES SHALL NOT BEAR ON
- ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS CELLING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT
- BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. EASTEN FUD OF BRACING TO RAFTER OR CARLE FUD FRAMING. FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS
- OTHERWISE NOTED. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS ⊕ 8'-0" O.C. TIE STRONGBACK ENDS TO CABLE STUDS OR RAFTERS WHERE POSSIBLE, PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS, FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS @ IZ" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.

### WOOD TRUSSES (FLOOR & ROOF):

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES, SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW, THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN EQCUMENTS, THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN. FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS, THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST FOILON OF THE ANSI/TPL 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY NFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI). THIS BRACING BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN OIL THE SHOP DRAWINGS, ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION, AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSL THE CONTRACTOR SHALL KEEP A
- COPY OF THE BOSI SUMMARY SHEETS ON SITE.
  THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFER TO BOSI SUMMARY SHEET B3 FOR TYPES OF BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE, SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 104 FACE HAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR I, BRACE, ETC.)
- ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
- SPACE BE PER THE ANALYPACITY OF THE STATE OF COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER, TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
- PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

### WOOD STRUCTURAL PANELS:

- FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
- ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS, REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION, EXTERIOR WALLS TO BE FULLY SHEATHED USING 1/6" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS, SHEATHING SHALL SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE 316" OSB MINIMUM.
- WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING, PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING
- 6 SHEATHING SHALL HAVE A 16" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

#### STRUCTURAL FIBERBOARD PANELS:

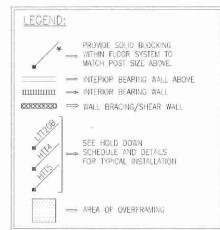
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOAR SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS, REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A 16" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

#### STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (Fy) OF 50 KSI UNITES OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED
- WELDER PER THE ABOVE STANDARDS. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3/2" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 1/2" x 4" LAG SCREWS INLESS OTHERWISE NOTED.
- INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH, FASTEN PLATE TO BEAM W/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR 1/2" DIAMETER BOLTS AT 24"

#### MECHANICAL FASTENERS:

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED FOUNALENT
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WGOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK	VENEER LINTEL S	CHEDULE
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"×3½"×¼"	4"
UP TO 5'-3"	5"x3½"x516" L.L.V.	8"
UP TO 9'-6"	6"x3½"x¾6" L.L.V.	12"

UNLESS SPECIFIED ON UNIT PLANS

SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.



Ω.  $\geq$ 30 Car 120/1 North

olina

Project #: 105-19000 Designed By: KRK

Checked By: Issue Date: 1/1/19

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Re-Issue: Scale: 1/8"=1'-0" @ 11x17

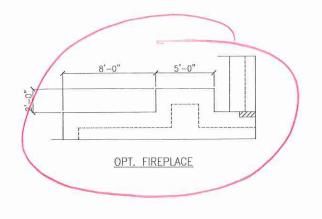
1/4"=1'-0" @ 22x34

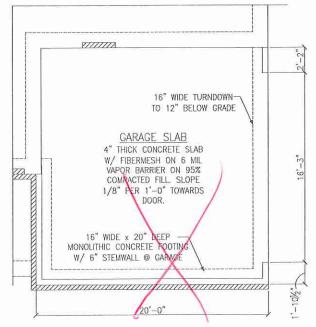




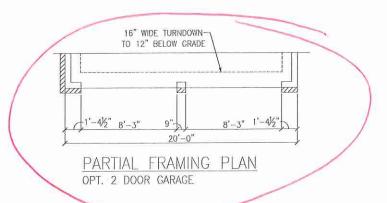


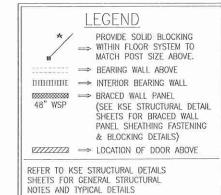






PARTIAL FRAMING PLAN OPT. SIDE LOAD GARAGE







Monolithic Slab Factor A & Op Elevation A & Op Trillium Model — 120 M.P.H. Carolina Division Project #: 105-16011 Designed By: KRK Checked By: Issue Date: 4/8/19

Plans

Foundation

Slab

Options - RH

Re-Issue: 12/3/19 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

MONOLITHIC SLAB FOUNDATION PLAN **ELEVATION A** 

5'-51/2"

16" WIDE TURNDOWN TO-

16'-01/2"

30"x30"x12"— DEEP THICKENED SLAB

4" THICK CONCRETE SLAB W/ FIBERMESH ON 95% COMPACTED FILL

VINIII

12" BELOW GRADE @ OPT. COVERED/SCREENED PORCH HNE OF PATIO/

OPT. COVERED SCREENED PORCH

-2'-7/<sub>4</sub>'

LINE OF OPT. WRAP-AROUND PORCH

30"x30"x12" DEEP THICKENED

SLAB

SLAB ON GRADE

4" THICK CONCRETE SLAB

W/ FIBERMESH ON 6 MIL

VAPOR BARRIER ON 95%

4" THICK CONCRETE SLAB

W/ FIBERMESH ON 95%

COMPACTED FILL

-16" WIDE TURNDOWN

TO 12" BELOW GRADE

19'-0"

COMPACTED FILL

14'-0"

20" WIDE x 20" DEEP-

MONOLITHIC CONCRETE

FOOTING W/ 4" LEDGE @

BRICK VENEER

LINE OF OPT EXTENDED COVERED AT

16" WIDE × 20" DEEP -MONOLITHIC CONCRETE

FOOTING, 20" WIDE W/ 4" LEDGE @ BRICK VENEER (TYP.)

12'-61/4"

24"x24"x12" DEEP THICKENED SLAB

GARAGE SLAB

4" THICK CONCRETE SLAB W/ FIBERMESH ON

6 MIL VAPOR BARRIER ON 95% COMPACTED

19'-6%"

16'-3"

16" WIDE x 20" DEEP-MONOLITHIC CONCRETE

FOOTING W/ 6" STEMWALL @ GARAGE

1'-101/2"

FILL. SLOPE 1/8" PER 1'-0" TOWARDS DOOR.

20'-41/4"

JO"x30"x12" DEEP THICKENED SLAB

-8" DEEP x 16" WIDE

THICKENED SLAB (TYP.)

3'-8"

16" WIDE TURNDOWN-

TO 12" BELOW GRADE







LEGEND PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. ⇒ BEARING WALL ABOVE ⇒ INTERIOR BEARING WALL пишшии BRACED WALL PANEL 48" WSP (SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

#### KEYNOTES:

- (4) INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- (5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Elevation A & Op Trillium Model — 120 M.P.H. Carolina Division Second Project #: 105-16011 Designed By: KRK Checked By: Issue Date: 4/8/19

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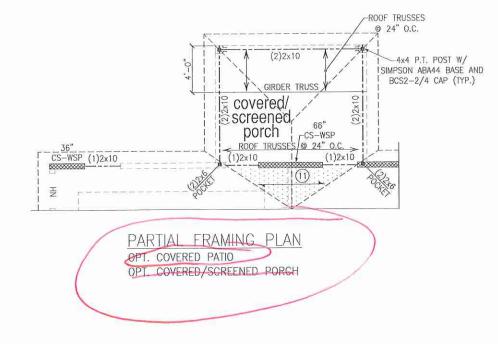
Framing

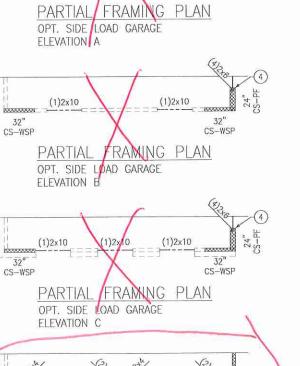
Floor

Options - RH

Re-Issue: 12/3/19 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

-2x6 RAFTERS 60" CS-WSP/ @ 24" O.C. 36" CS-WSP CS-WSP (1)2x10 CS-WSP (1)2x10 (2)2x6family rm OPT. FIREPLACE CS-WSP CS-WSP CS-WSP CS-WSP (1)2x10 (1)2x10 (1)2x10 (1)2x10 family rm (3)1¾"x16" LVL FLUSH TOP owner bedroom breakfast 14" I-JOISTS @ 16" O.C. MAX kitchen (3)1¾"x11%" LVL МПП breakfast  $\frac{\mathbb{T}}{\mathbb{Z}}$ owner bath 1 14" I-JOISTS @ 16" O.C. MAX lau kitchen (3)13/4"x14" LVL FLUSH JOIST DOUBLE JOIST (4)1¾"x14" LVL FLUSH W/ (2) ROWS SIMPSON SDS 1/4"x6" SCREWS @ 16" O.C. FROM BOTH FACES pdr 1 14" I-JOISTS @ 16" O.C. MAX OPT. MASKER 14" I-JOISTS @ 16" O.C. MAX BATH #2 WIC JOIST - ISIO SECOND FLOOR FRAMING PLAN DOUBLE JOIST OPT. LOFT/BONUS ROOM RIM BOARD 2x4 LEDGER w/ (2)12d-NAILS @ 16" O.C. pdr 1 pdr 1 (2)2x10 14" I-JOISTS @ 16" O.C. MAX foyer foyer dining dining ROOF TRUSSES @ 24" O.C. (1)2x10 2- car garage (1)2x10 (1)1¾"x14"-LVL FLUSH (1)13/4"×14"-LVL FLUSH (1)2x10 (1)2x10 (1)2x10(1)2x10 (3)13/4"x18" LVL FLUSH TOP porch porch LINE OF EXTERIOR OF EXTERIOR -WALL ABOVE (2)2x10 DOUBLE JOIST -2x4 LEDGER w/ (2)12d WALL ABOVE (2)2×10 CANTILEVERED (2)2×10 (2)2x10 NAILS @ 16" O.C. 2x4 LEDGER w/ (2)12d-NAILS @ 16" O.C. (2)1¾"X11%" LVL CONT. OR CS-ESW(2) DESIGNED TO REPLACE 146" OF CS-WSP. STRAP AROUND 24" 4x4 P.T. POST W/-CS-PF 5"x3½"x¾6" LINTEL BOLTED SIMPSON ABA44 BASE AND CS-ESW(2) DESIGNED TO REPLACE TO (2)1¾"x14" LVL CONT.
w/ ½" DIA. BOLTS @ 16"
O.C. @ BRICK VENEER. WINDOWS PER DETAIL C/SD-3 BCS2-2/4 CAP (TYP.) 146" OF CS-WSP. STRAP AROUND WINDOWS PER DETAIL C/SD-3 SECOND FLOOR FRAMING PLAN PARTIAL FRAMING PLAN ELEVATION A OPT. WRAP-AROUND PORCH ELEVATION A





(2)1¾"X11¾" LVL CONT.

PARTIAL FRAMING PLAN

OPT. 2 DOOR GARAGE

32"

CS-WSP

DOUBLE JOIST

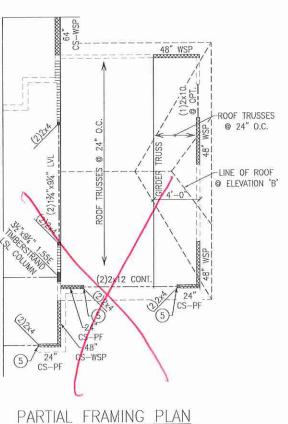
14" I-JOISTS @ 16" O.C. MAX

-DOUBLE JOIST CANTILEVERED

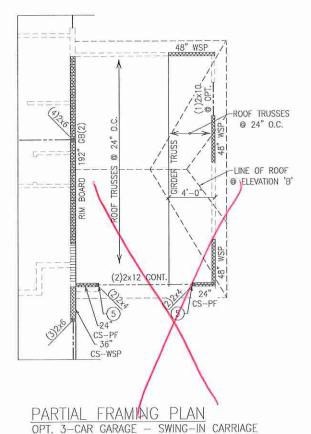
CS-WSP

garage

3)134"x18" LVL FLUSH TOP



OPT. 3-CAR GARAGE - FRONT LOAD



LEGEND

PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE ⇒ INTERIOR BEARING WALL пришин 48" WSP ⇒ BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

#### KEYNOTES:

- 4 INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- (5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Second Floor Fra Options Trillium Model — 120 M.P.H. Carolina Division Project #: 105-16011 Designed By: KRK

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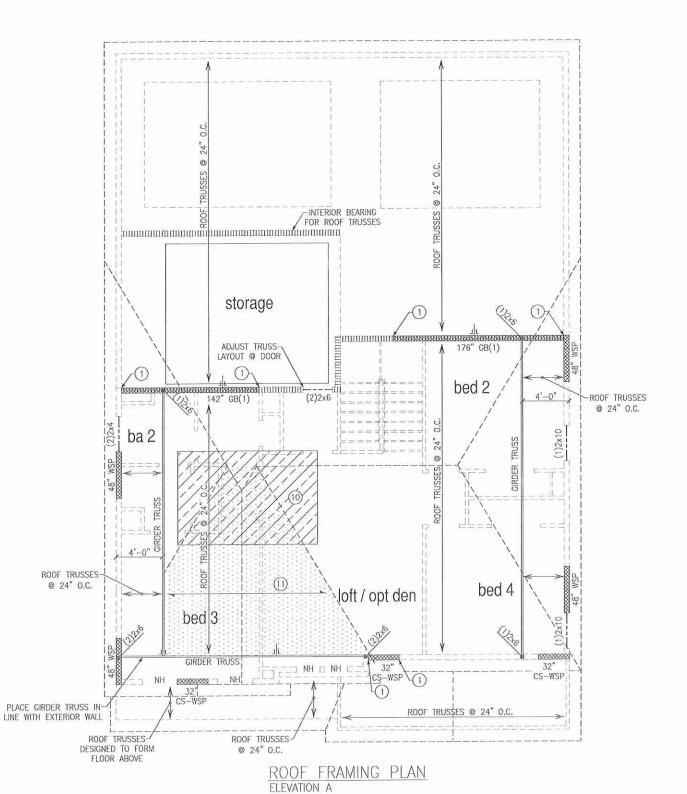
Framing

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Checked By:

Issue Date: 4/8/19
Re-Issue: 12/3/19
Scale: 1/8"=1"-0" @ 11x17
1/4"=1"-0" @ 22x34





222" GB(1)

bed 3

NI NI

ROOF TRUSSES-

© 24" O.C.

OPT. LOFT 2/BONUS ROOM

ROOF FRAMING PLAN

\_\_\_32"\_\_ CS-WSP

ROOF TRUSSESDESIGNED TO FORM FLOOR ABOVE

loft 2 / bonus rm

ROOF TRUSSES 1

ROOF TRUSSES-

@ 24" O.C.

PLACE GIRDER TRUSS IN-

LINE WITH EXTERIOR WALL

ba 2

storage

----

loft / opt den

CS-WSP

LEGEND

PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE

⇒ INTERIOR BEARING WALL пшшшп ⇒ BRACED WALL PANEL 48" WSP (SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' WALL PLATES

#### KEYNOTES:

- 1) CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS22 COIL STRAP WITH MIN 8-10d NAILS EACH END.
- (10) 8'x16' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES @ 24" O.C. (TYP.)

Elevation A & Op Trillium Model — 120 M.P.H. Carolina Division Roof Project #: 105-16011 Designed By: KRK Checked By:

Plans Option - RH

Framing tion A &

Issue Date: 4/8/19 Re-Issue: 12/3/19 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

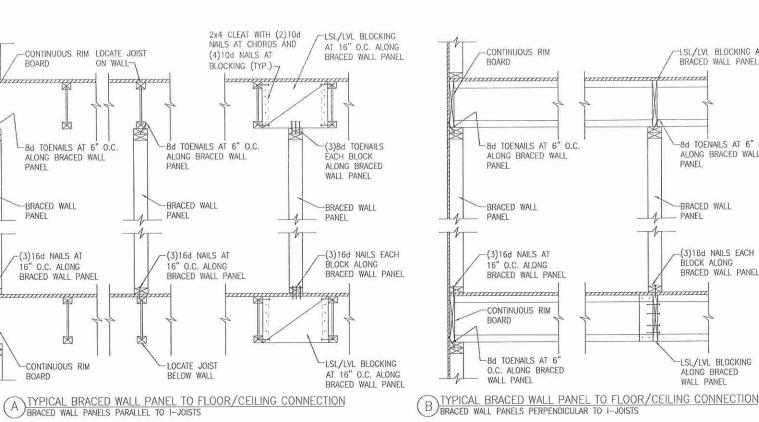


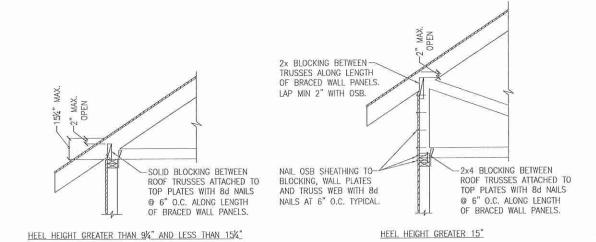




1/2" (MIN) GYPSUM WALLBOARD. FASTEN TO WALL ALL SUPPORTS (STUDS, PLATES, BLOCKING) WITH 1.25" TYPE W SCREWS AT 7" O.C. COR 5d COOLER NAILS AT 7" O.C.) 7 2x4 BLOCKING BTWN VERTICAL WALL STUDS AT ALL 2x6 FULL HEIGHT STUD AT WALL INTERSECTION HORIZONTAL GYPSUM BRACED (2x8 STUD AT SHEATHING JOINTS. -WALL-INTERSECTING 2x6 WALL) "T" PLATE WALL 3-STUD WALL INTERSECTION INTERSECTION

BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD. (C)METHOD GB(1) AND GB(2) INTERSECTION DETAILS





LSL/LVL BLOCKING ALONG

-8d TOENAILS AT 6" O.C.

ALONG BRACED WALL

PANEL

- PANEL

mmm

-BRACED WALL

-(3)16d NAILS EACH

BRACED WALL PANEL

LSL/LVL BLOCKING

ALONG BRACED

WALL PANEL

BLOCK ALONG

BRACED WALL PANEL

(D) TYPICAL EXTERIOR CORNER WALL FRAMING

SHEATHING

8d NAIL @ 6" O.C. AT ALL EDGES AND 12" O.C. TYPICAL AT ALL OTHER

MEMBERS

16d NAIL

OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

-GYPSUM BOARD

BOARD

PANEL

PANEL

-BRACED WALL

-(3)16d NAILS AT

16" O.C. ALONG

BRACED WALL PANEL

-CONTINUOUS RIM

BOARD

GYPSUM BOARD-

EXTERIOR SHEATHING-

16d NAIL -

@ 12" O.C.

INSIDE CORNER PLAN VIEW

-8d TOENAILS AT 6" O.C.

ALONG BRACED WALL

ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS

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Project #: 105-19000 Designed By: KRK Checked By: Issue Date: 1/1/19 Re-Issue:

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

120/130 M.P.H. North Carolina

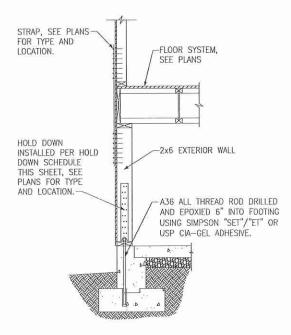






-SIMPSON HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET - A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET" OR "ET" ADHESIVE.

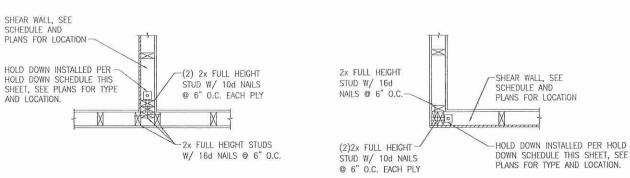
## C HOLD DOWN AT STEMWALL SLAB



G HOLD DOWN AT BASEMENT FOUNDATION

	HOL	D DOWN SCH	EDULE	
HOLD DOWN		ALL THREAD ROD	FASTENERS	
SIMPSON	USP	ALL THINEAD NOD	TASTERENS	
LTT20B	LTS20B	⅓" DIA.	(10)10d NAILS	
НТТ4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
НТТ5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS	





## (A) TYPICAL HOLD DOWN DETAIL

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE

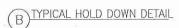
PLANS FOR TYPE AND LOCATION.

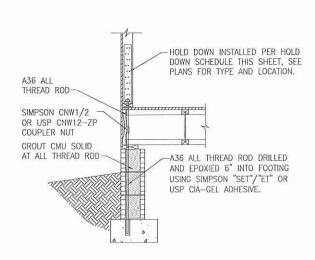
DHOLD DOWN AT MONOLITHIC SLAB FOUNDATION

-A36 ALL THREAD ROD DRILLED AND

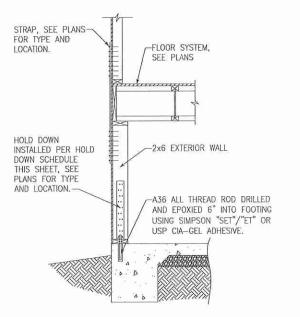
EPOXIED 6" INTO FOOTING USING SIMPSON

"SET"/"ET" OR USP CIA-GEL ADHESIVE.





(E)HOLD DOWN AT CRAWL SPACE FOUNDATION



C HOLD DOWN AT STEMWALL SLAB FOUNDATION

HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE AND LOCATION.

-A36 ALL THREAD ROD DRILLED AND

EPOXIED 6" INTO FOOTING USING SIMPSON

"SET"/"ET" OR USP CIA-GEL ADHESIVE.

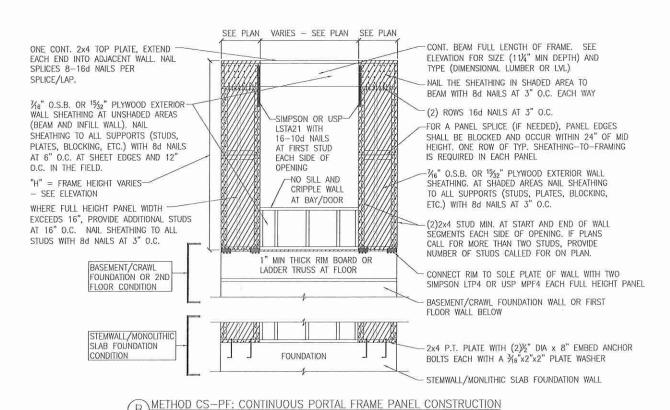
HOLD DOWN AT BASEMENT FOUNDATION

	HOL	D DOWN SCH	EDULE	
HOLD DOWN		ALL THREAD ROD	FASTENERS	
SIMPSON	USP	ALL ITINEAU NOU	FASIENERS	
LTT20B	LTS20B	⅓" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS	

Project #: 105-19000 Designed By: KRK Checked By: Issue Date: 1/1/19 Re-Issue:

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

O 7 120/130 M.P.H. North Carolina

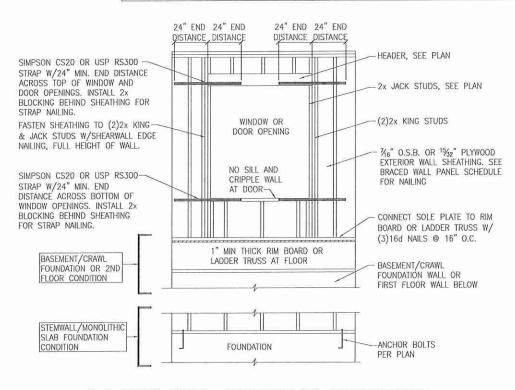


TWO BRACED WALL SEGMENTS

BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE PANEL TYPES PANEL TYPE 6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMITTENT WOOD INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STRUCTURAL PANEL STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS INTERMITTENT GYPSUM 1.5" LONG GALV, ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W GB(1) BOARD (SHEATHING ONE 1/2" GYPSUM DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. FACE OF WALL) INTERMITTENT GYPSUM 1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W GB(1)-4BOARD (SHEATHING ONE 1/2" GYPSUM DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. FACE OF WALL) INTERMITTENT GYPSUM 1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W GB(2) BOARD (SHEATHING BOTH 1/2" GYPSUM DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. FACES OF WALL) 6D OR 8D COMMON NAILS AT 6" O.C. AT SHEFT EDGES AND 12" O.C. AT CONTINUOUS SHEATHED CS-WSP WOOD STRUCTURAL 7/16" OSB INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS CONTINUOUS SHEATHED 7/16" OSB NAILING PER DETAIL CS-PF PORTAL FRAME NAILING PER DETAIL PORTAL FRAME WITH 7/16" OSB PFH HOLD DOWNS 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT 7/16" OSB ENGINEERED SHEAR CS-ESW(1) INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS WALL, TYPE 1 8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT 7/16" OSB ENGINEERED SHEAR CS-ESW(2) INTERMEDIATE SUPPORTS, CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS WALL, TYPE 2 8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT ENGINEERED SHEAR CS-ESW(3) WALL, TYPE 3 INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

#### BRACED WALL PANEL NOTES

- I. ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- 3. SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH \$\frac{7}{6}\text{"} O.S.B., OR \$\frac{15}{32}\text{"} PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



ONLY REQUIRED WHERE SPECIFED ON PLANS







Braced Wall Notes & Detail

Project #: 105-19000 Designed By: KRK Checked By:

Checked By: ssue Date: 1/1/19

Issue Date: 1/1/1 Re-Issue:

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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120/1. North

Carolina

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INGINEERING
UITE 201, QUAKERTOWN, PA 18951
(215) 804-4449 S



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Project #: 105-19000 Designed By: KRK

Checked By:

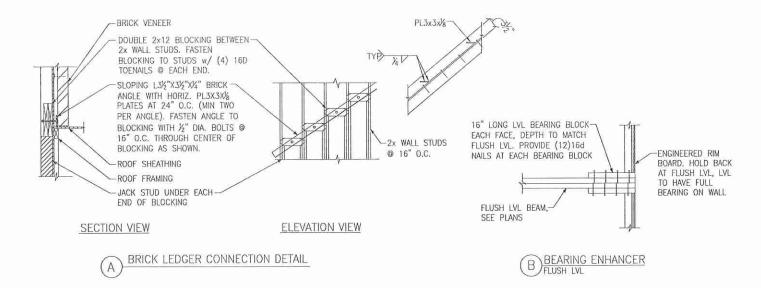
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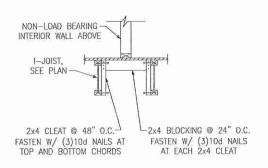
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

/130 M.P.H

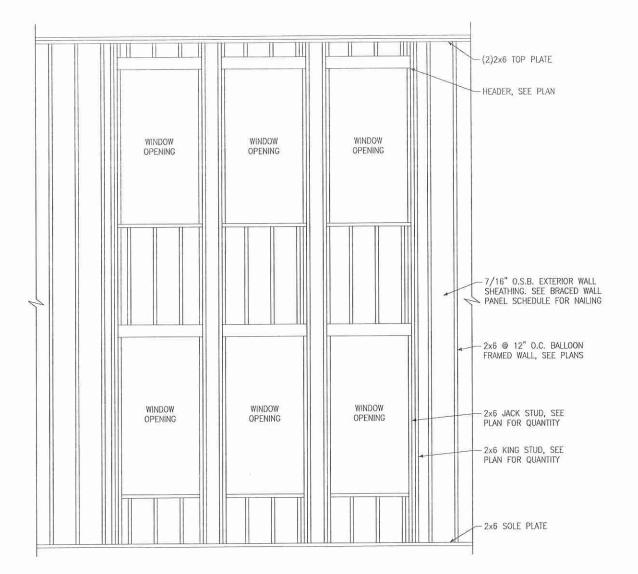
20/

C METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS MONOLITHIC SLAB OR BASEMENT FOUNDATION





C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.



Detail Framing Miscellaneous Project #: 105-19000 Designed By: KRK

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Checked By: Issue Date: 1/1/19 Re-Issue:

120/130 M.P.H. North Carolina

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Framing scellaneous

Project #: 105-19000 Designed By: KRK

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-WALL STUD OR GABLE TRUSS TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS 2x4 LEDGER, FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS4x31/2" OR USP WS35 SCREWS @ 16" O.C. -2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS MAXIMUM! -2x4 LEDGER, FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

EYEBROW ROOF DETAIL

FRAMING w/8d NAILS @ w/(2) ROWS SIMPSON SDS4x31/2" OR 4" O.C. INTO EACH USP WS35 SCREWS @ 16" O.C. - MEMBER -2x4 VERTICAL 2'-6" MAXIMUM SUH24-2 HANGER -BRICK VENEER, PER ELEVATION

- 8d NAILS AT 4" O.C.

B PENT ROOF DETAIL

END TRUSS

RAFTERS.

8d NAILS AT 6" O.C. -

2x4 BLOCKING BTWN-

2x4 FRAMING AT 24" O.C.

CANTILEVERED OVER GABLE

2x6 KICKER AT 6'-0" O.C., WITH-

2x6 "T" SCAB. NAIL SCAB TO

KICKER WITH 10d NAILS AT 6"

O.C. KICKER MAY BE OMITTED WHEN HEIGHT OF GABLE END TRUSS IS 4'-0" OR LESS.

N<sub>6</sub>" OSB AT GABLE END-TRUSS, PER SHEAR WALL

EDGE NAILING PER SHEAR -

WALL ABOVE (6" O.C. AT

NON-SHEAR WALLS)

¼6" OSB WALL-SHEATHING

WALL SCHEDULE PER SHEAR

SLOPING L3½"x3½"x¼" BRICK ANGLE WITH HORIZ. PL3x3x1/8

BRICK VENEER-PLATES AT 24" O.C. (MIN TWO PER ANGLE. NAIL TO GIRDER TRUSS WITH 16d NAILS AT 9" O.C. THROUGH PRE-DRILLED -HOLES. PL3x3x1/8

OSB GUSSET, CUT TO

MATCH ROOF PROFILE FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

2x12 RAFTER WITH -CURVED PROFILE

CUT INTO RAFTER

2x WALL STUDS,

SEE PLAN

TYP

ROOF GIRDER TRUSS TO

SUPPORT DEAD LOAD OF

BRICK, LIMIT DEFLECTION

TO L/600 OR 0.3" MAX.,

(D) TRUSS DETAIL

SEE PLANS.

-LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH

SIMPSON H3 OR USP RT3A

-WALL STUD OR GABLE TRUSS

-WALL SHEATHING

-2x4 VERTICAL

-2x4 CEILING JOIST.

LAP WITH VERTICAL

2x4 LEDGER. FASTEN TO

2'-6" MAXIMUM WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C. -SIMPSON U24-2 OR USP SUH24-2 HANGER -BRICK VENEER, PER ELEVATION

2x12 RAFTER WITH -2x4 LEDGER, FASTEN TO WALL STUDS CURVED PROFILE w/(2) ROWS SIMPSON SDS4x31/2" OR 2x4 VERTICAL CUT INTO RAFTER-USP WS35 SCREWS @ 16" O.C. FASTEN VERTICAL TO RAFTER & OSB GUSSET, CUT TO-CLG. JOIST w/(4) 12d NAILS. MATCH ROOF PROFILE FASTEN GUSSET TO FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

X SECTION CURVED ROOF

2x4 BLOCKING BETWEEN TRUSSES WITH SIMPSON U24

OR USP JL24 EACH END-

-(2) SIMPSON GBC OR

USP HC520 EACH KICKER

-SIMPSON LTP4 OR USP

MPF4 EVERY OTHER

BLOCK

(E) GABLE END WALL DETAIL

-2x4 LEDGER, FASTEN TO WALL STUDS w/(2) ROWS

WS35 SCREWS @ 16" O.C.

SIMPSON SDSYx3/2" OR USP

(5) 10d-

- ROOF TRUSSES AT

SIMPSON A35 OR USP MPA1

SPACED PER SHEAR WALL

BELOW ENTIRE GABLE END

24" O.C.

SIMPSON H3 OR USP RT3A 12"x12"x½" OSB GUSSET. FASTEN GUSSET TO WALL STUD OR GABLE TRUSS 2x4 LEDGER, FASTEN TO WALL STUDS

2x4 RAFTER & CEILING JOIST, LAP WITH VERTICAL

-LINE OF OPTIONAL BRICK -WALL SHEATHING

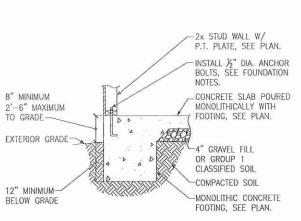
FASTEN RAFTER TO LEDGER WITH

-FASTEN VERTICAL TO RAFTER & CLG. JOIST w/(4) 12d NAILS.

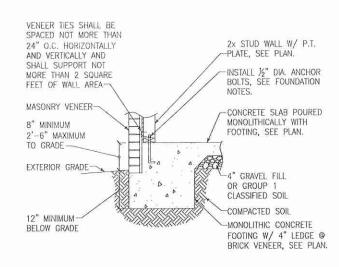
-2x4 LEDGER, FASTEN TO WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C.

SIMPSON U24-2 OR USP

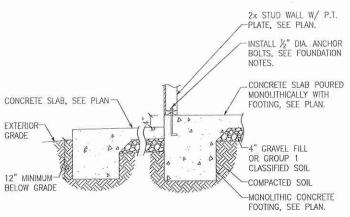




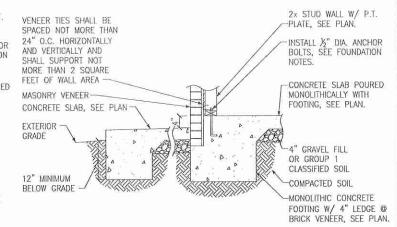




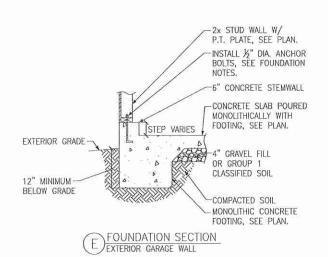


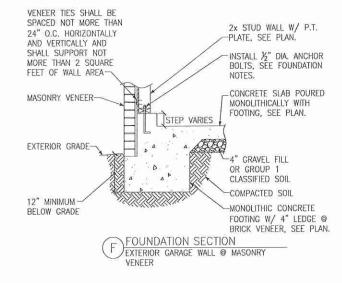


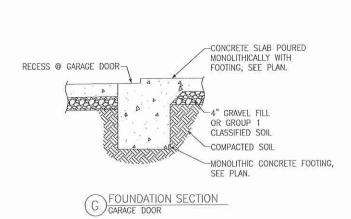


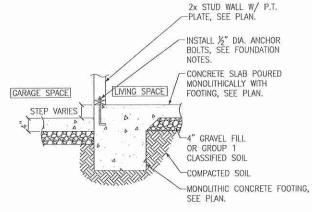


FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY

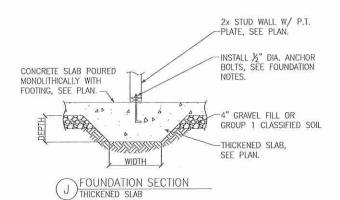


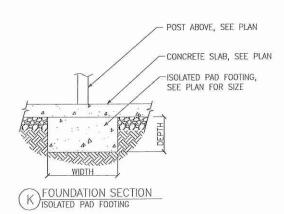






FOUNDATION SECTION INTERIOR GARAGE WALL







Foundati ap S onolithic

5

30 120/1 North

M.P.H.

rolina

Project #: 105-19000 Designed By: KRK Checked By:

Issue Date: 1/1/19

Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

EERING KERTOWN, PA 185 (215) 804-44

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