REDBUD H&H HOMES

PLAN REVISIONS

II-21-19 IJ ADDED ROOF VENTING CALCULATIONS FOR ELEVATIONS A, B, AND C, 2) ADDED ROOM DIMENSIONS TO ROOM LABELS FOR CLARITY.

3) CHANGE MASTERS TO OWNERS THROUGHOUT PLANS/ELEVATIONS TO MEET HAH

REQUIREMENTS.
4) UPDATED BATHROOM NAMING IN ACCORDANCE TO HITH STANDARDS.
5) REVISED AND VERIFIED SQUARE FOOTAGE

1-16-2020 1) CHANGED FIREPLACE TO OPTIONAL INSTEAD OF STANDARD PER H4H.

2) UPDATED CUTSHEETS

REDBUD SQUARE FOOTAGES		
AREA	ELEV 'A'	
ist FLOOR	1502 SF	
2nd FLOOR	1723 SF	
TOTAL LIVING	3225 SF	
GARAGE	464 SF	
PORCH	12T SF	
OPT_COVERED PATIO	100 SF	
OPT 3-CAR GARAGE	240 SF	

REDBUD SQUARE FOOTAGES)	
AREA	ELEV 'B'	
ist FL <i>OO</i> R	15 <i>0</i> 7 SF	
2nd FLOOR	1732 SF	
TOTAL LIVING	3234 SF	
GARAGE	464 SI	
PORCH	201 SF	
OPT COVERED PATIO	100 SF	
OPT 3-CAR GARAGE	240 S	

AREA	ELEV 'C'
Ist FLOOR	1502 SF
2nd FLOOR	1736 SF
TOTAL LIVING	3238 SF
GARAGE	464 SF
PORCH	128 SF
OPT_COVERED PATIO	100 SF
OPT 3-CAR GARAGE	240 SF

ISSUANCE OF FLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BUILDER OF RESPONSIBILITY TO REVEW AND VERRY ALL NOTES, DYENRIONS, AND ADHERNACE TO APPLICABLE BUILDING CODES PRIOT OF CONTRICTION OF ANY CONSTRUCTION.

ANY DISCREPANCY OF REPRO INVESTED HYDRONS, OR ADHERNACE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COPYENCEPOING ANY CONSTRUCTION.

ANY REVISIONS OR CHANGES, NOT RELIED TO THE CORRECTION OF BERRORS THAT ARE MADE AFTER THE THALL THAN SHAW EAST HOT THE THEN THE SHALL THAN SHAW EAST OFFICE. THE THAN THE THAN THE DRAFTER SHALL NOT BEEN FLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S CHICK, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



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

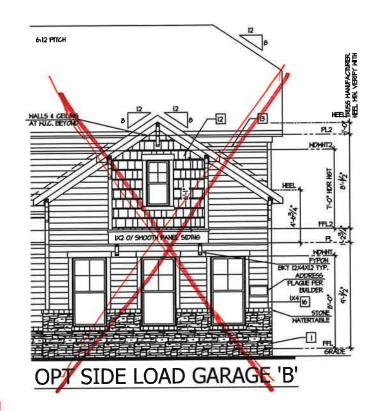
GARAGE RIGHT HOMES REDBUD H&H HON

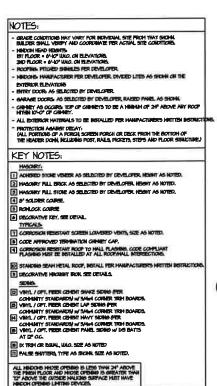










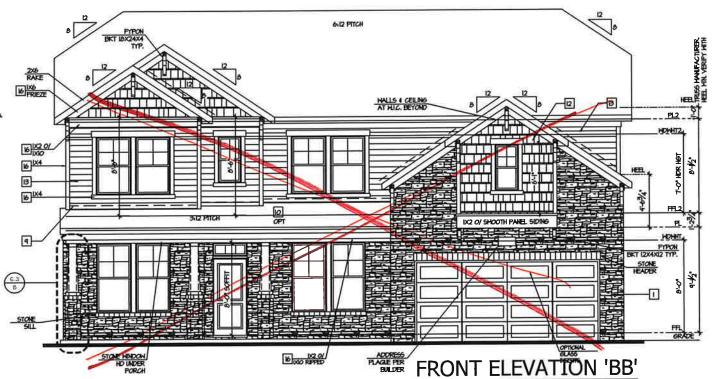


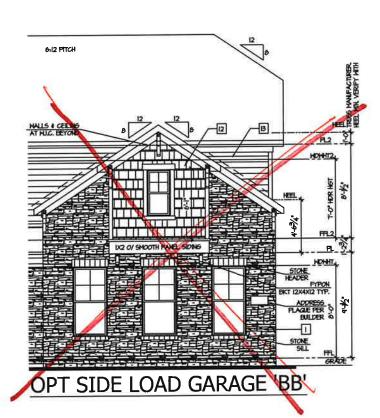
INSURACE OF PLANS FROM THIS DRAFFERS OFFICE SHALL HOT RELEVE THE BILLDER OF REPORTED TO TO REVEN AND VERY ALL HOTES, DYDRIGHM, AND ADHERBICE TO APPLICABLE BILLDING CODES FROM TO CONTRICTION OF ANY CONSTRUCTION.

ANY DISCREPANCY OF PROVE IN HOTES, DYBRIGHMON, OR ADHERBICE TO APPLICABLE BILLDING CODES BHALL BE BIRLDING TO THE ATTENDED OF THE DRAFFERS' OFFICE FOR CORRECTION BEFORE COPYRIGHTS OF ANY CONTRICTION.

ANY REVISIONS OR CHANGES, NOT RELAYED TO THE CORRECTION OF ENGINES THAT ANY MODE AFTER THE FINAL PLANS HAVE BEST COPYRITION WHILL BE BILBERT TO ADDITIONAL FREA.

FAIR THOPPROGRAMS ARE HOLE TO THESE PLANS BY ANY CHARF MAY OFFER THAN THE DRAFFERS OFFICE THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THE DRAFFERS OFFICE THE DRAFFERS OFFICE THAN THE DRAFFERS OFFICE THE DRAFFERS OFFICE THE DRAFFERS OFFICE THAN THE DRAFFER





ELEVATION "B/BB"

SCALE IS 1/8" = 1'-0" IF PRINTED IN HALF SIZE SCALE IS 1/4" = 1'-0" IF PRINTED IN FULL SIZE

GARAGE RIGHT



IOB MUNISER 27167.07 CAD FILE NAME REDIGUO-R

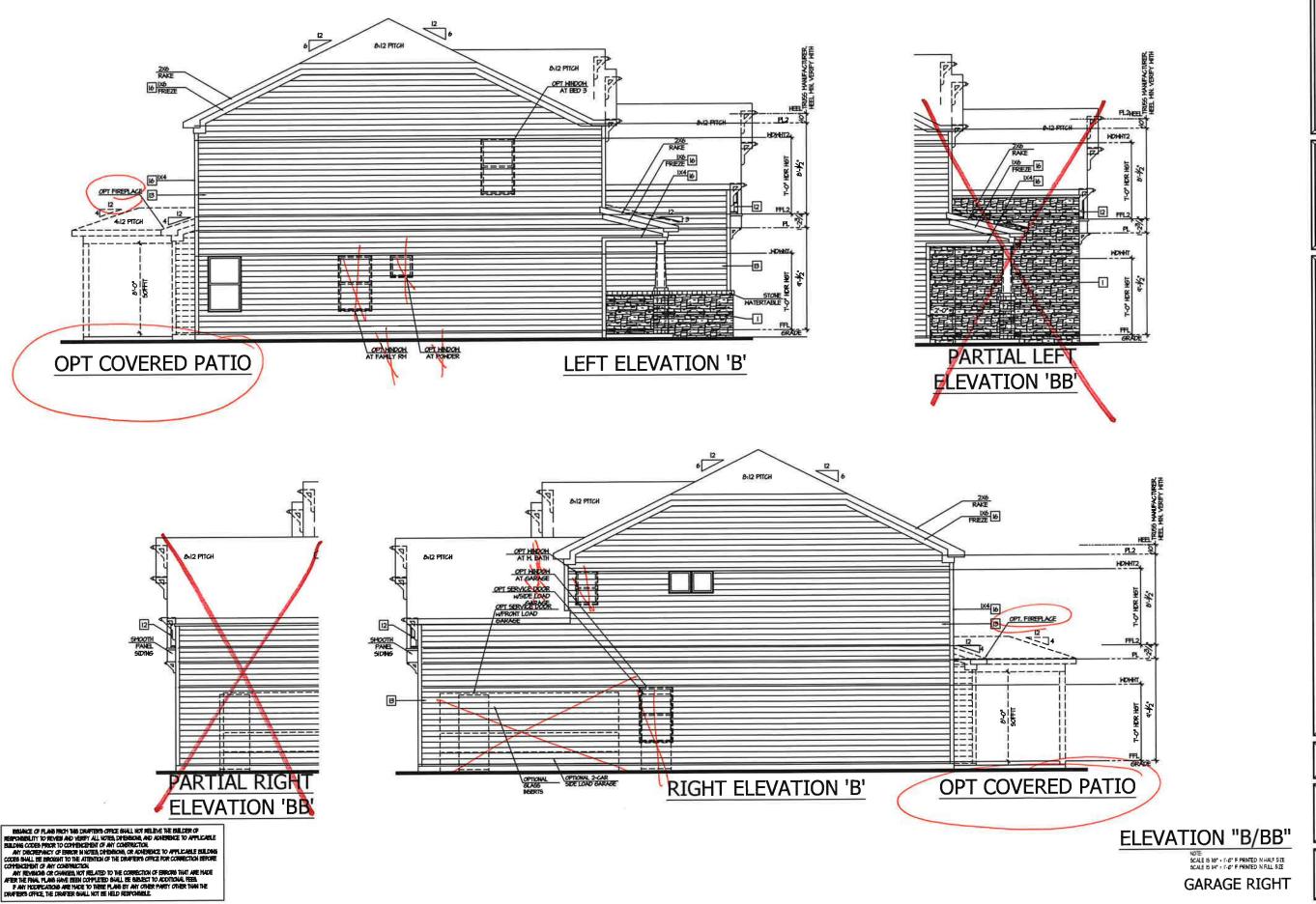
DRAWNGS ON II'S II' SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE ES HOM 1 REDBUD

SIDE AND REAR ELEVATIONS ROOF PLAN BUILDING SECTION

H&H

A6.3



+ HOMES

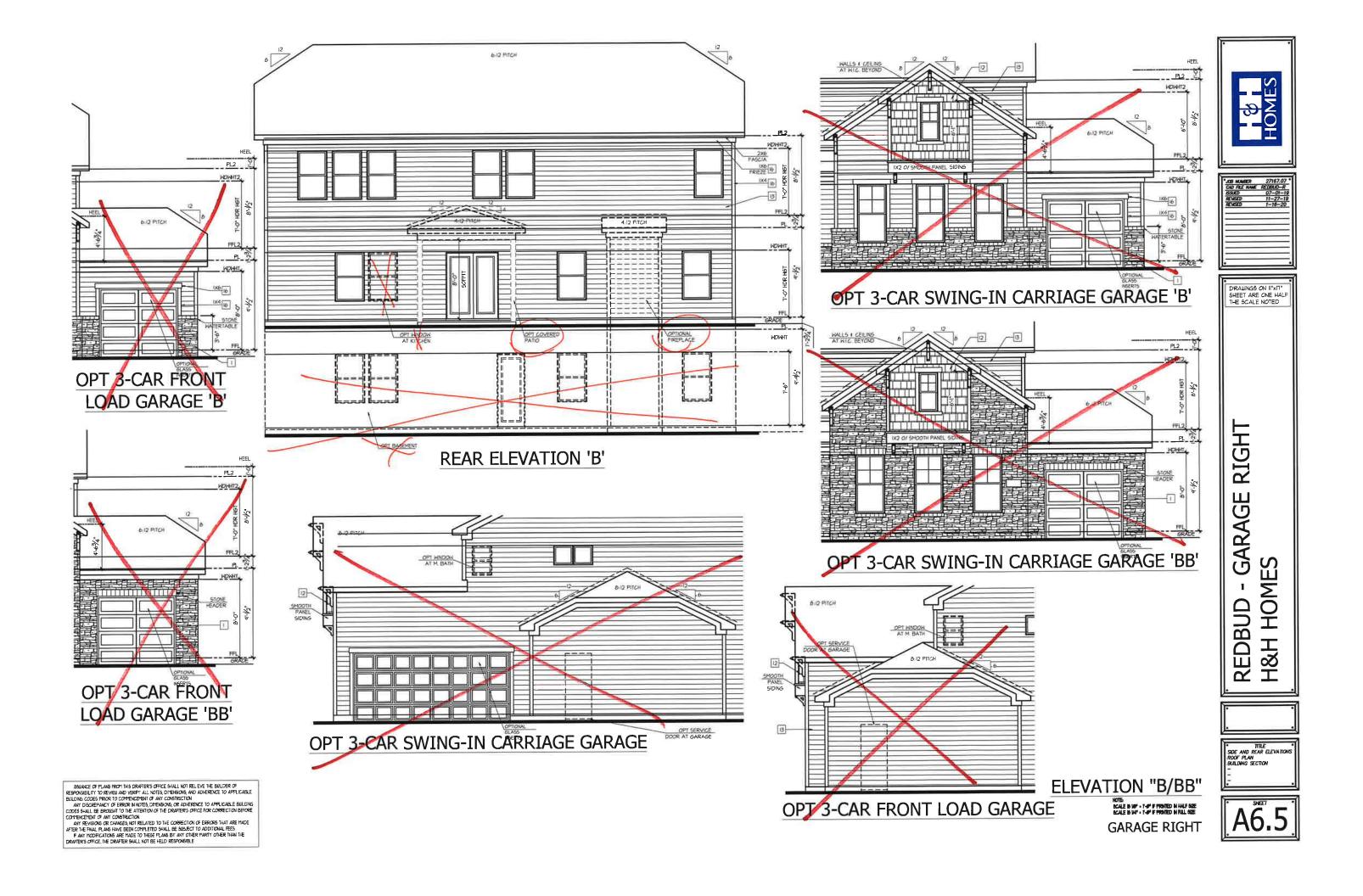


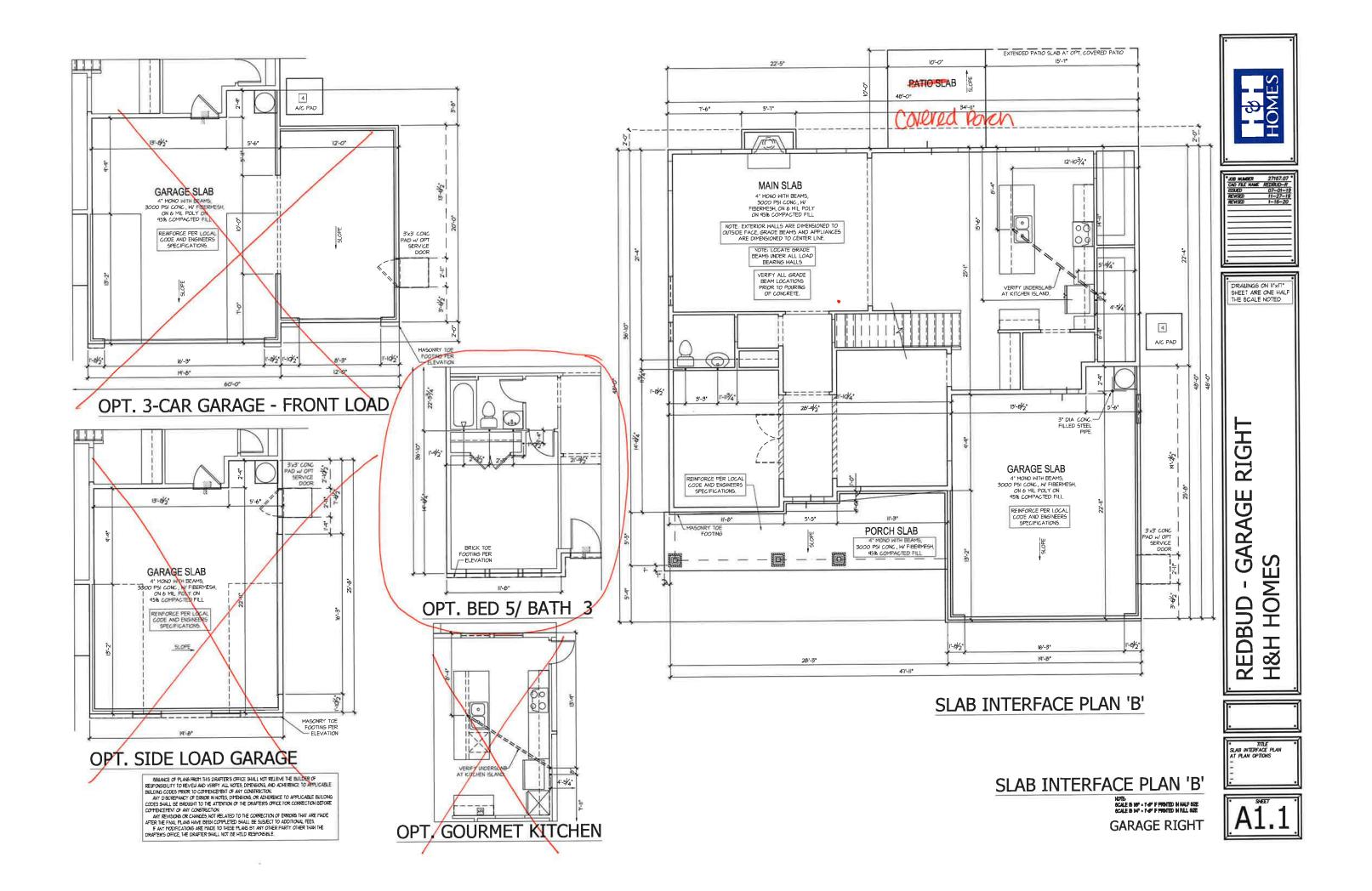
DRAUNGS ON II'XTI' SHEET ARE ONE HALF THE SCALE NOTED

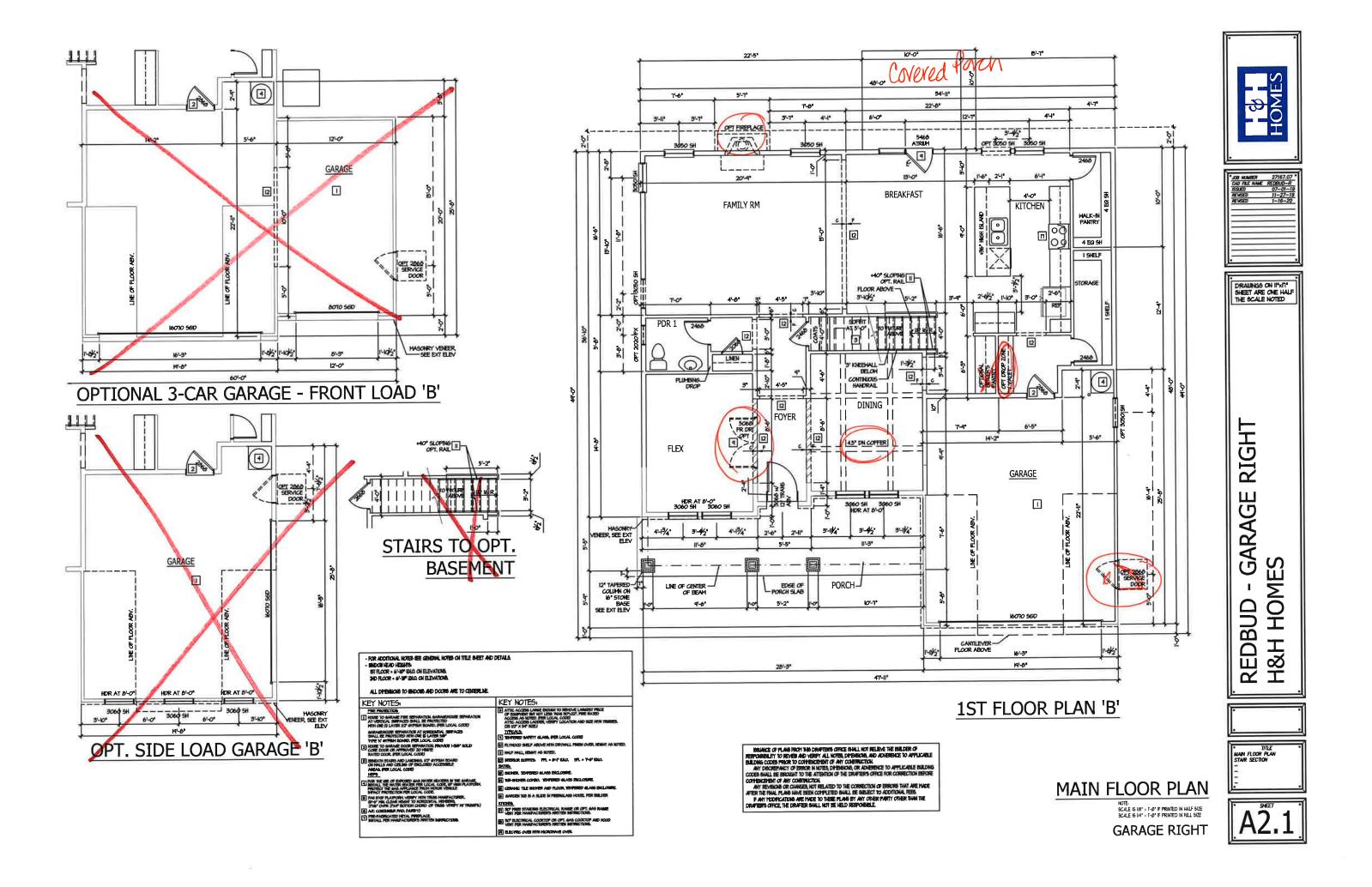
REDBUD - GARAGE RIGHT H&H HOMES

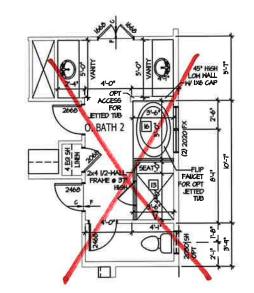


A6.4

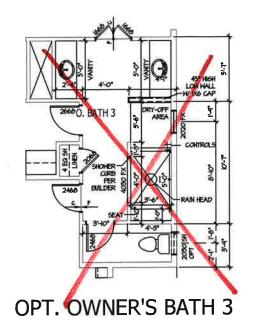


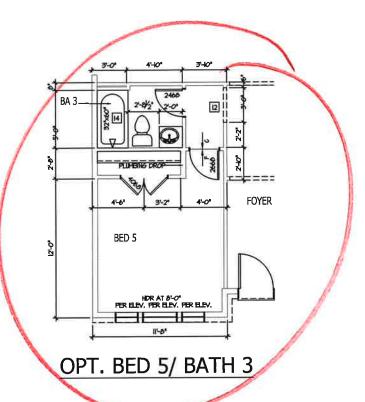


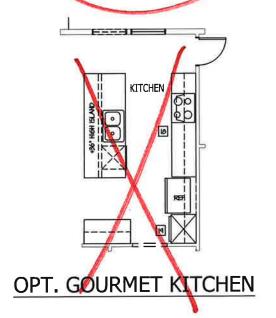


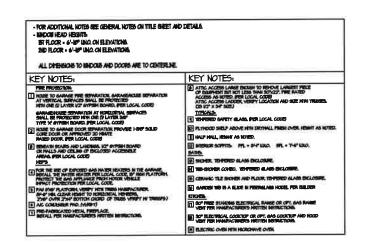


OPT. OWNER'S BATH 2



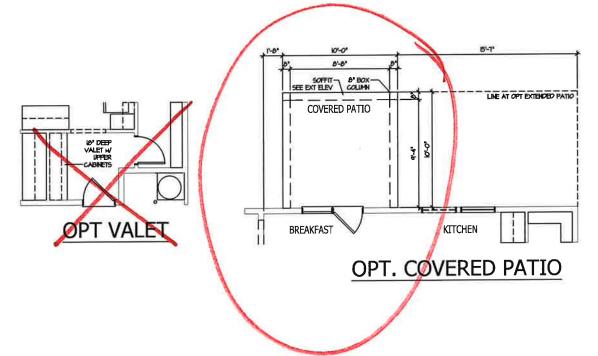












MAIN FLOOR OPTIONS

NOTE: 5CALE IS 1/8" = 1'-0" IF PRINTED IN HALF SIZE SCALE IS 1/4" = 1'-0" IF PRINTED IN FILL SIZE

GARAGE RIGHT

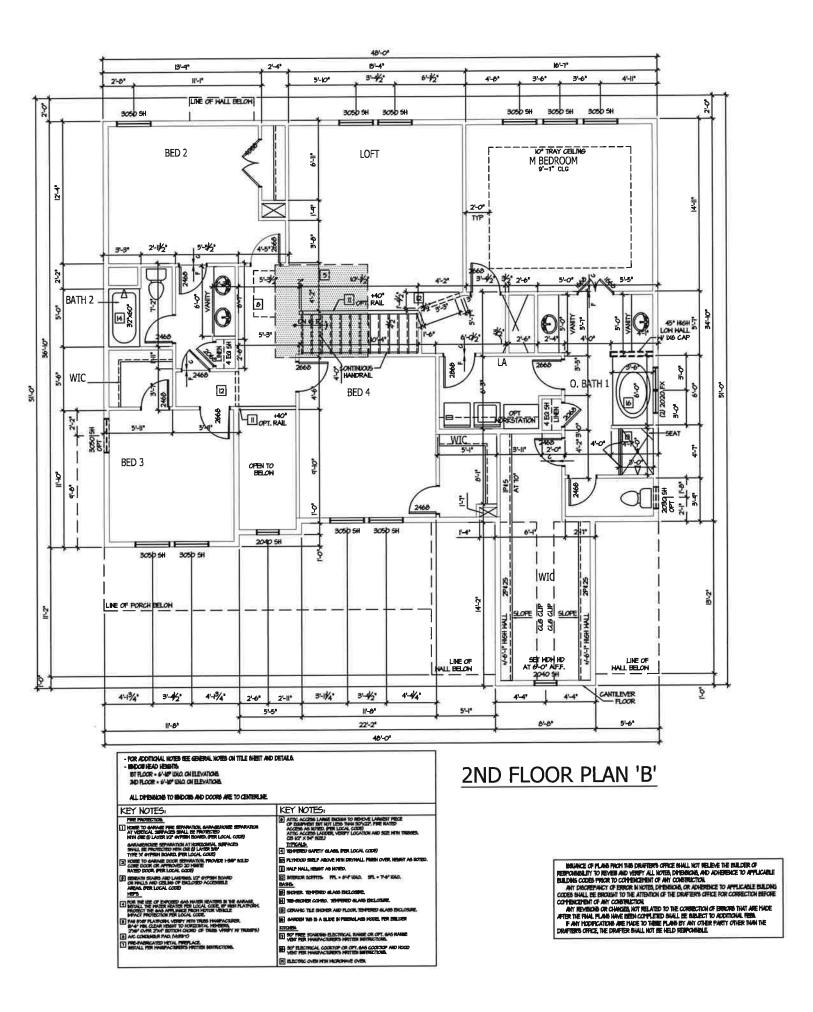
" TITLE MAIN FLOOR PLAN STAIR SECTION



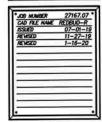


DRAWNSS ON II'XII' SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE H&H HOMES REDBUD







DRAUMSS ON II'XII' SHEET ARE ONE HALF THE SCALE NOTED

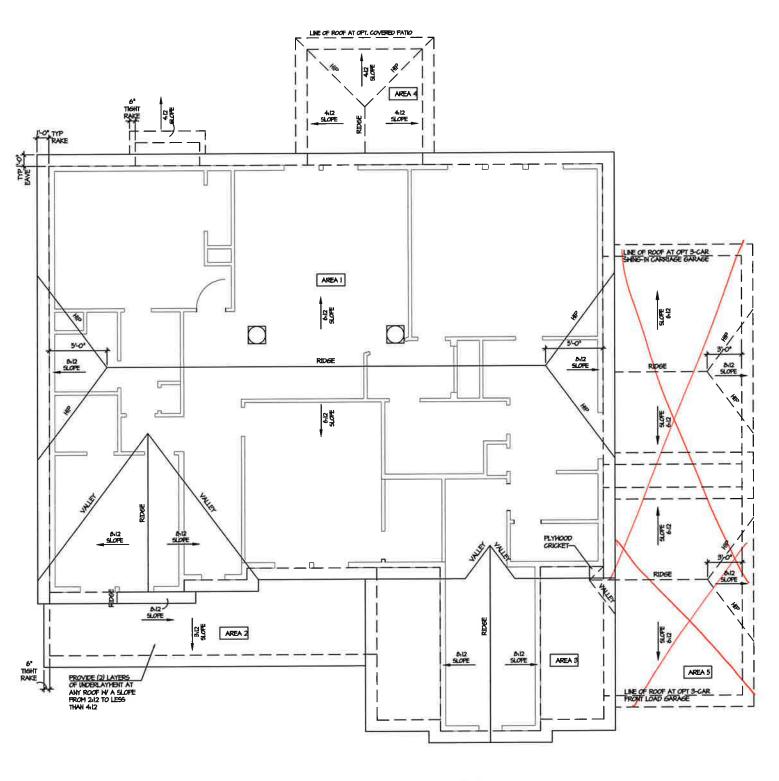
REDBUD - GARAGE RIGHT H&H HOMES

UPPER FLOOR PLAN

NOTE:
SCALE IS US* : 1'-0' IF PRINTED IN HALF SIZE
SCALE IS U4* : 1'-0' IF PRINTED IN RALF SIZE
GARAGE RIGHT

A3.1

MAIN FLOOR PLAN STAIR SECTION





ESLANCE OF PLANS FROM THIS DRAFFERS OFFICE SHALL NOT RELEVE THE BUILDER OF REPRODUCEDING TO REVER AND VERSEY ALL NOTES, DYDRIGHDA, AND ADJECTION OF PAPELCABLE BUILDING CODES FROM TO CONFEDENCE TO APPLICABLE BUILDING AND PROPERTY OF PROPERTY IN NOTES, DYBERORIA, OR ADJECTION OF PAPELCABLE BUILDING CODES MAIL BE BROADED TO THE ATTENDION OF THE DRAFFERS OFFICE FOR CORRECTION ESFORE COPYRIGHTS OF ANY CONSTRUCTION.

ANY REVENUES OF ANY CONSTRUCTION. HAVE PROPERTY OF ANY CONSTRUCTION AND THE PARK THAN ESTABLE THE SELECT TO ADDITIONAL TIES.

FIRST THE PARK THANS HAVE FRESH COPYRIGHTS WHAT HE SELECT TO ADDITIONAL TIES.

FIRST THORPHOLIDIES ARE FLOET FOR THESE THAN BY ANY OTHER THAN THE DRAFFERS OFFICE, THE DRAFFERS WHALL NOT BE HELD RESPONSIBLE.

ROOF PLAN "B"

NOTE:
SCALE 15 18" : 1"-0" F PRINTED IN HALF SIZE
SCALE 15 14" : 1"-0" F PRINTED IN HALF SIZE

GARAGE RIGHT

[A4.1]

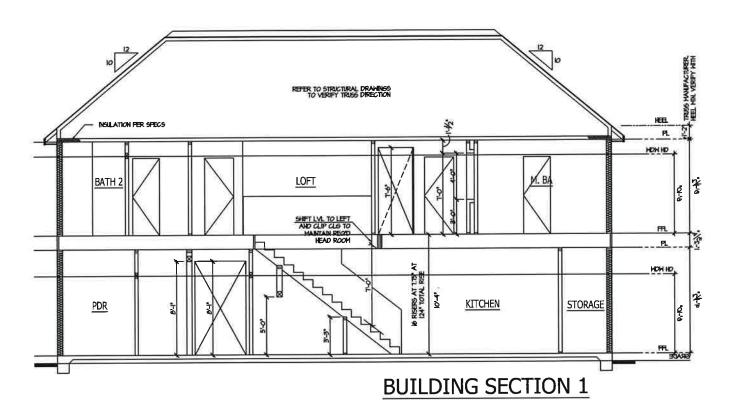


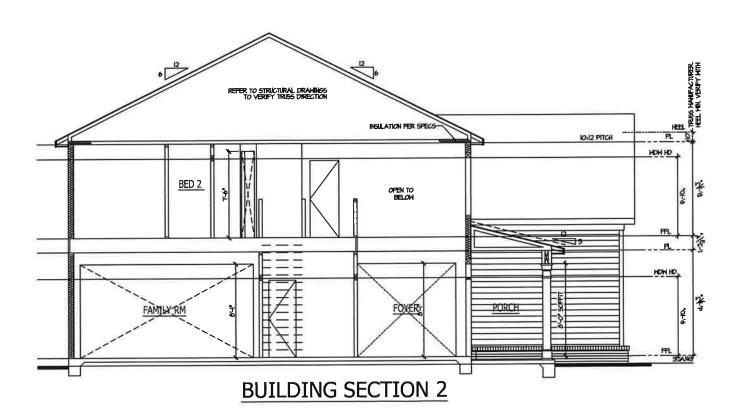


DRAWINGS ON II'XIT' SHEET ARE ONE HALF THE SCALE NOTED

REDBUD - GARAGE RIGHT H&H HOMES

* TITLE FRONT DLEVATION DETALS



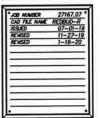


MEMANDE OF PLANS FROM THIS DRAFFERS CHICE SHALL NOT RELEVE THE BILLDER OF REPROBBELLIY TO REVER AND VERRY ALL NOTES, DYENBOOK, AND ACKERISKE TO APPLICABLE BILLDING CODES FROM TO CONTRECISE OF ANY DECORPROSED TO CONTRECISE OF ANY DECORPORATION OF THE DRAFFERS OFFICE FOR CORRECTION BEFORE CONTRECISE OF ANY CONTRECISED TO THE ATTENDION OF THE DRAFFERS OFFICE FOR CORRECTION BEFORE CONTRECISE OF ANY CONTRECISED AND THE CONTRECISION OF THE PROBE THAT ARE MADE AFTER THAT FLANS ANY EXPENSIONS OF CHARGES, MAY REAL REST DO SHALL BE SELECT TO ACCOMMAND HELD FAILT TO DRAFFERS OFFICE THAT THAT THAT PLANS OF THE PLANS BY ANY OTHER PRAFT OFFICE THAT THAT THAT PLANS OFFICE OFFICE THAT THAT THAT THAT THAT THAT PLANS OFFICE OFFICE THAT THE PLANS BY ANY OTHER PRAFT OTHER THAT THAT THE PLANS OFFICE OFFICE THAT THE PLANS OFFICE OFFICE THAT THAT THE DRAFFERS OFFICE THAT THE PLANS OFFICE OFFICE THAT THE PLANS OFFICE OFFICE THAT THE PLANS OFFICE OFFICE OFFICE THAT THE PLANS OFFICE OFFICE THAT THE PLANS OFFICE OFFICE THAT THE PLANS OFFICE OFFICE OFFICE OFFICE THAT THE PLANS OFFICE OF

BUILDING SECTIONS

GARAGE RIGHT

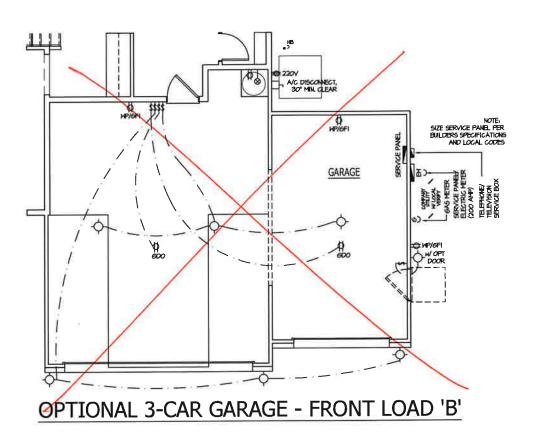


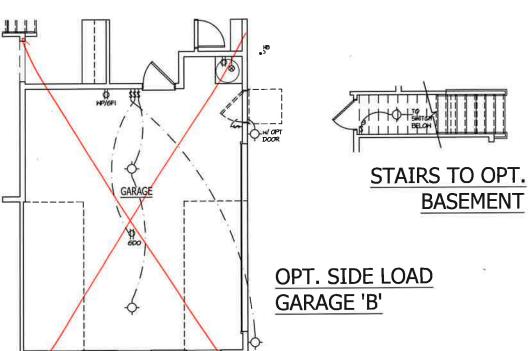


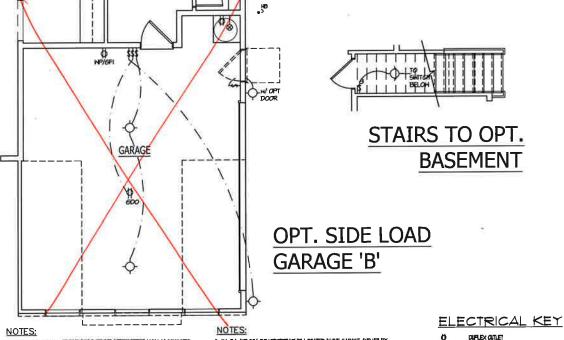
DRAUNASS ON II"XIT" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE H&H HOMES REDBUD











6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO BRIGHE THAT ALL ELECTRICIAN BOTH, IS IN RELL CONFILMACE WITH ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

ALL CHOICE DETECTORS SHALL BE HARDWIND INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EGUPTED WITH A HONTORED BATTERY BACKLP, FROVICE AND INSTALL LOCALLY CERTIFED SHOKE DETECTORS.

4. ALL BA AND 26A RECEPTACLES IN BLEEPING ROCKS, FAFELY ROCKS, DANIG ROCKS, LIVING ROCKS, PARLONS, LERANDES, DENS, SURCOKS, RECREATION ROCKS, CLOSES, HALLBAYE, AND SYMLAY, AREA BLEEFING A COMPANION TYPE AFCL DEVICE AND TAPEN-PROOF RECEPTACLES.

1 EMBRY BILLIONS HAMAS A FOODL-REL-FERRANG HEATER OR APPLIANCE, FREPLACE, OR AN ATTACKED GARAGE WILL HAVE AN OPERATIONAL CARBON FOODCOCK CETECTOR NOTALLED WITHIN WITHER OF EACH ROOM WEDT FOR GLEDPINS FURPORED.

8. ALAPT'S SHALL RECENS THEIR PROVING POWER PROVING BIRDLE BIRDLE SERVED PROVING BIRDLE BIRDLE SERVED PROVING BIRDLE BIRDLE SERVED BIRDLE BIRD

GROUND-FALLT CIRCUIT-NIERRUPTER DUPLEX CUTLET HALF-BUTGLED DUPLEX CUTLET

ECTRICAL KEY ELECTRICAL KEY ELECTRICAL KEY

⊏∟⊏	CIRICAL REI		CIRICAL NEI	드나드	<u> </u>
ф	CELING HOUNTED INCANDESCENT LIGHT FIXTURE	M	OPES .		CELING FAN
	WALL HOUNTED INCANDESCENT	9	PUSH BUTTON BUTTON		(PROVIDE ADEQUATE SUPPORT
Ю	LIGHT FIXTURE	9	NOV BYCKE DETECTOR NY BATTERY BACKUP	S./	CELLING FAN LITH INCANDESCE
- Ö-	recensed ncandescent light fixture	@	CO2 DETECTOR	X	LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT
_	(VP) - VAPOR PROOF	O	THERMOSTAT	~× -∞	GAB BUFFLY WITH VALVE
@	EXHAUST FAN (YENT TO EXTERIOR)	3	TELEPHONE		HOSE BIBB
4	EXHAUST FANALISHT COMBINATION (VENT TO EXTERIOR)	TV	TELEVISION	HB	
_	CTERT TO EXCHANGE	_		TO	M* MATER STUB OUT

ELECTRICAL METER

BALL SCONCE

PORCH

BELINCE OF PLANS FROM THIS DRAFTER'S CHICK SHALL NOT RELEASE THE BILLDER OF RESPONSIBILITY TO REVEAL AND VERSTY ALL NOTES, DRIBBIONS, AND ADHERINGE TO AFFLICABLE BILLDER CODES FROM TO COMPRICIOSIST OF ANY CONSTRUCTION. ANY DESCRIPTORY OF SERVER WHOTE, DYSENGER, OR ACHERINE TO AFFLICABLE BILLDERS CODES SHALL BE SECURITY TO THE ATTENDA OF THE DRAFTER'S CHICK FOR CORRECTION ESTATE COMPRICIONS OF ANY CONSTRUCTION. ANY REVIOUS OR CHARKES NOT SELLADE TO THE CORRECTION OF SERVERS THAT ARE THAN FIRST THAN THE BEST CHYPLETO SHALL BE SILECT TO ADDITIONAL THESE PART FOR THAN THE RESPONSIBLE FIRST SHALL BE SILECT TO ADDITIONAL THESE PART FOR THAN THE PRAFTER SHALL NOT SEL HELD RESPONSIBLE.

MAIN FLOOR ELECTRICAL PLAN 'B'

GARAGE RIGHT



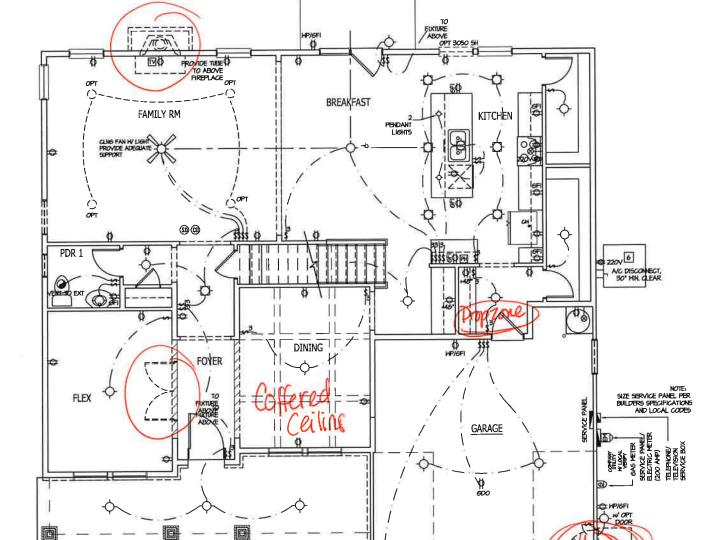


DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

RIGHT GARAGE ES HOM EDBUD H&H $\overline{\mathbf{C}}$

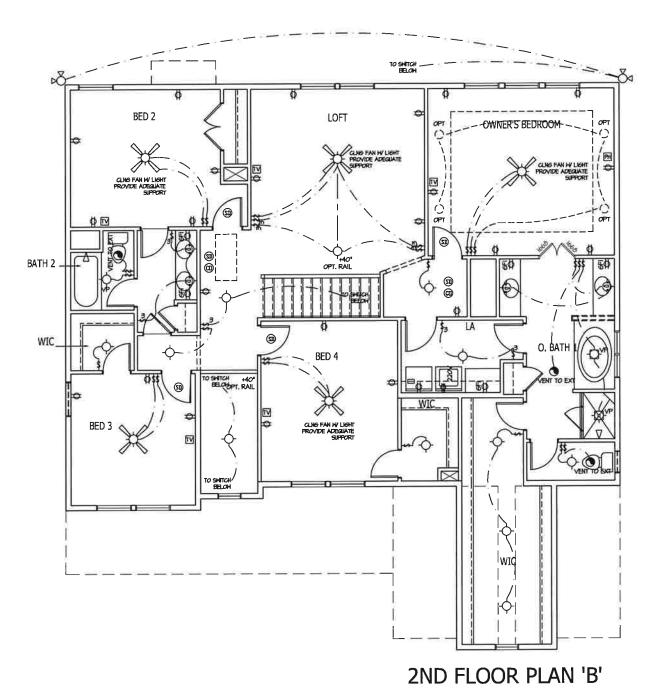






Covered forch

1ST FLOOR PLAN 'B'





| JOB MANGER | 27167.07 | CAD FILE NAME | REDBUD-R | ESSED | 07-01-15 | REMISED | 11-27-19 | REVISED | 1-16-20

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

I . PROVIDE AND INSTALL GROUND FALL CROUT-INTERPLETERS (GFL) AS INDICATED ON PLANS OR AS ITEM NO. 4 AND 5 BELOWINDICATES.

2 IM PAS CINERAISE NOICATED, NSTALL SUTGES AND RECEPTAGES AT THE

3. ALL BYOKE DETECTORS SHALL BE HARDINGED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A HONTORED BATTERY BACKUP, PROVIDE AND INSTALL LOCALLY CERTIFED <u>MYCKE DETECTORS</u>.

4. ALL BA AND 20A RECEPTACIES IN SLEPPAS ROCHS, FAFELY ROCHS, DANG ROCHS, LIMAS ROCHS, PARLORA, LIBEARES, DENS, BINROCHS, RECREATION ROCHS, CLOSETS, HALLIANTS, AND SHELAR AREAS BELL REGISTE A COMENATION TYPE AFCL DEVICE AND TAFFER-PROCE RECEPTACIES.

5. ALL BA AND 20A BOY RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GEGL PROTECTED (GF1).

& IT IS THE RESPONSELITY OF THE LICENSED ELECTRICIAN TO ENGINE THAT ALL ELECTRICAL BOOK IS IN TALL COPPLIANCE WITH ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EVERY BULDING HAVING A FOODL-FUEL-BURNING HEATER OR APPLIANCE, FREPLACE, OR HA ATLICAED GARACE SHALL HAVE HIS OPERATIONAL CARBON TRANSICED DETECTIOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING FURFOREX.

ELECTRICAL KEY

DUPLEX CUTLET MEATHERFROOF GELDUPLEX CUTLE GROUND-FAULT CIRCUIT-NIEUWUPTER DUPLEX CUTLET

720 YOLT CUTLET REINFORCED JUNCTION BOX

\$ 3 THREE-MAY BUTCH FOUR-MAY GUTTON

ELECTRICAL KEY ELECTRICAL KEY ELECTRICAL KEY

RECEISED INCANDESCENT LIGHT FOXURE (VP) - YAPOR FROOF

PLEH BUTTON BUTTON TELEVISION

ELECTRICAL METER

ELECTRIC PAVEL

۵

CELING FAN WITH INCANDESCENT LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)

CIL 14° NATER STUB OUT ₩LL 6CONCE

MOUNCE OF FLANS FROM THIS DRAFTERS OFFICE SHALL NOT RELEVE THE BILLDER OF RESPONSELTIVE TO REFUSE AND VERREY ALL NOTES, DYENSIONS, AND ACHERISMS TO APPLICABLE BILLDING COORDS FROM TO CONFEDENCE OF ANY CONSTRUCTION.

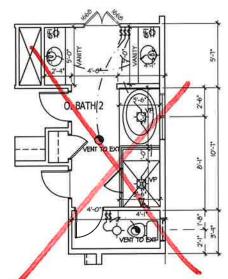
ANY DECORPRACY OF ERROR HOUTED, DYENDEROON, OR ACHERICE TO APPLICABLE BILLDING COORDS SHALL BE ERRORSHET TO THE ATTRIBUTION OF THE DRAFTERS OFFICE FOR CORRECTION BEFORE CONFEDENCE ANY CONFEDENCE AND THE THAT THE ATTRIBUTION OF THE DRAFTERS OFFICE FOR CORRECTION BEFORE AFTER THE THAT, THAS HAVE DEED COMPLETED NOT BE CORRECTION OF ERRORS THAT ARE HAVE AFTER THE THAN THAS HAVE DEED COMPLETED AND LES SHALED TO ACCORDING ANY ENTER THE THAN THAS HAVE MOVED FOR THE THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD REPONSIBLE.

UPPER FLOOR ELECTRICAL PLAN 'B'

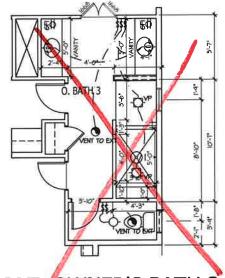
GARAGE RIGHT

E8

TITLE UPPER FLOOR ELEC. PLAN











I. PROVIDE AND INSTALL GROUND FALLT CROUT-INTERRUPTERS (GFL) AS INDICATED ON IPLIAND OR AS ITEM NO. 4 AND 5 BELOW NOVCATED.

SMITCHES ... 47" CUTILETS W

3. ALL BYCKE DETECTORS SHALL BE HARDWIRED NTO AN ELECTRICAL POWER BOURCE AND SHALL DE EQUIPPED WITH A MONTORED BATTERY BACKUP, PROVIDE AND NOTALL LOCALLY CERTIFIED <u>STOKE DETECTORS</u>.

A ALL BA AID 20A RECEPTACLES IN BLEETING ROOTS, FATILY ROOTS, DINNS ROOTS, LIMBS ROOTS, PARLORS, LERANESS, DENS, BARROOTS, RECREATION ROOTS, CLOSETS, HALLIMYS, AID SHEAR REAS WELL RECIRES A COMENATION TITE AFEL DEVICE AID TAMPER-PROOT RECEPTACLES.

9, ALL BA AND 20A BOY RECEPTACIES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GEGL PROTECTED (GELL).

6. IT 16 THE PERPOYMENTITY OF THE LICENSED ELECTRICAN TO ENGINE THAT ALL ELECTRICAL ADDR. 15 N RALL CONFLIANCE WITH ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

A JUAN'S SALL RECEIVE THEIR PRIVARY POWER FROM THE BUILDING WARMS MEN BUCH WANG IS BERKED FROM THE LOCAL POWER WILLITY, BUCH ALAPES SHALL HAVE BATTERY BOADER COMPONITION BY RECEIVED MINIORACION ALAPENS SHALL BE LISTED OR LABBLED ST A MICHAELY RECOGNIZED TESTING LABORATORY.

ELECTRICAL KEY

FOYER

OPT. BED 5/ BATH 3

KITCHEN

OPT. GOURMET KITCHEN

DUPLEX CUTLET GROUD FALLT CIRCUIT-MIERRUPTER DUPLEX CUTLET HALF-BUTCHED DUFLEX OUTLET

220 VOLT OUTLET

WALL SWITCH

ям алгонался BOV OHOKE DETECTOR BY BATTERY BACKUP

OPT. WORKSTATION

AND DROP ZONE

COST DETECTOR TELEVISION

ELECTRICAL METER BLECTRIC PANEL

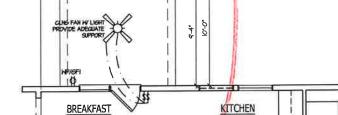
CELNG FAN (PROVIDE ADEQUATE SUPPORT)

GAS BUFFLY WITH VALVE ---∞

BALL SCOKE

RIGHT

OPT. DROP ZONE



COVERED PATIO

OPT. COVERED PATIO

ELECTRICAL KEY

RECESSED INCANDESCENT LIGHT

ØPT VALET

ELECTRICAL KEY ELECTRICAL KEY



INSLINCE OF PLANS FROM THIS DRAFFER'S OFFICE SHALL NOT RELEVE THE BILLDER OF RESPONSELLING TO REVENUE AND VERSTY ALL NOTICE, DYDENCIAS, AND ACHEROLIC TO APPLICABLE BILLDERS CODES FROM TO COMPRECION OF ANY CONSTRUCTION. AND PROCESSANCY OF ENGINE HAVINGE, DYDENSOL, OR ACHEROLIC TO APPLICABLE BILLDERS CODES SHALL BE ENGUISHT TO THE ATTENTION OF THE DRAFFER'S CITIZE FOR CORRECTION SEFORE COMPRECIONS OF CHANGES, NOT RELATED TO THE CORRECTION OF ENGUISH AND THAT ARE THOSE AFTER THAN I FLANS HAVE BELLDERS CONTESTED SHALL BE SELECT TO ADDITIONAL TIES. IT ANY COLOR TO THE TOP OFFICE TO THAN BY THE THAN I FLAND BY THE TOP OFFICE THAN BY THE THAN I FLAND TO THE TOP OFFICE TO THAN BY THE THAN I FLAND TO THE PRAFT OFFICE THAN IT THE DRAFFER SHALL NOT BE HELD RESPONSELS.

ELECTRICAL OPTION

NOTE: BCALE IS NO' = 1-0" IF PRINTED IN HALF SIZE BCALE IS NO' = 1-0" IF PRINTED IN PLLL SIZE **GARAGE RIGHT**





DRAWINGS ON 11"x11" SHEET ARE ONE HALF THE SCALE NOTED

GARAGE ES HOME REDBUD H&H





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

REDBUD RH

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 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
 HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 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,.

- 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 = 8

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

• TJI 210 SERIES (SERIES AND SPACING PER PLANS)

- LSL: E=1,550,000 PSI, F₈=2,325 PSI, F_V=310 PSI, F_C=900 PSI ■ LVL: E=2,000,000 PSI, F_R=2,600 PSI, F_V=285 PSI, F_C=750 PSI
- PSL: E=2,100,000 PSI, F_B=2,900 PSI, F_V=290 PSI, F_C=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.





Redbud Model Up To 1. Carolina Project #: 105-16009 Designed By: KRK Checked By: Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Sheet

Cover

X.

130 M.P.H. Division

GENERAL STRUCTURAL NOTES

- 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 THE PRIMARY 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 KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
- 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 DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
- 4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OF 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 CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE 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 STRUCTURAL 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
- FLEMENTS 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. 9 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

- 1. 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 CONTRACTOR
- 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 1/2" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1
- 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 ICE 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.
- 12. 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 DEBRIS.

 14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

- CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER). LINIESS OTHERWISE NOTED ON THE PLAN
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- 3. AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING 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 SLAB AND SLAB CONSTRUCTION":
- 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-GRADE 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-DEPTH 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 TO ASTM A615, GRADE 60.
- 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 OTHERWISE:
- #4 BARS 30" LENGTH #5 BARS - 38" LENGTH
- #6 BARS 45" LENGTH 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.
- WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 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.
- 17. 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 PSI. 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
- 2. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 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 FOUNDATION WALLS
- TOP COURSE OF MASONRY SHALL BE GROUTED SOLID. 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.

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN 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 FRAMING: 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. STAGGERED, THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
- FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C. STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES
- 10 FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 11/2" MINIMUM FDGE DISTANCE (UNLESS OTHERWISE NOTED)
- 11. 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 OTHERWISE NOTED
- 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. SOLID 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. 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 NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END
- OF THE STUD IN LIEU OF SHEATHING 19. 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
- PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING

RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4'-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.
- CEILING 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. FASTEN END OF BRACING TO RAFTER OR GABLE END 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 GABLE 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 @ 12" 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 DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- 2. 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 TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- 3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION 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 ON 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 BCSI 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 BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL 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 10d FACE NAILS, 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 L BRACE, ETC.)
- 7. 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.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO 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
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS:

- 1. 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.
- 2. 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 LISING 7/6" 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 LINEESS OTHERWISE NOTED ON THE PLANS SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. 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 1/6" 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.
- SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

STRUCTURAL FIBERBOARD PANELS:

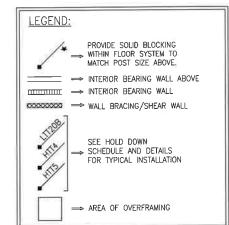
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- 4. SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

- STRUCTURAL STEEL:

 1. 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 UNLESS 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 31/2" 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 UNLESS 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 FOUIVALENT
- 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 WOOD TREATMENT AND SFLECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



SPAN	VENEER LINTEL S	END BEARING
UP TO 3'-0"	35"x35"x¼"	4"
UP TO 6'-3"	5"x3½"x5/6" L.L.V.	8"
UP TO 9'-6"	6"x3½"x¾6" L.L.V.	12"









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2 Project #: 105-19000 Designed By: KRK Checked By: ssue Date: 1/1/19

Re-Issue: 1/4"=1'-0" @ 22x34

MONOLITHIC SLAB FOUNDATION PLAN ELEVATIONS 'A-1', 'A-2', 'A-3' & 'A-4'



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

DⅢⅢⅢ ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL
48" WSP (SEE KSF STRUCTURAL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL

SHEATHING FASTENING & BLOCKING DETAILS) ₩ LOCATION OF DOOR ABOVE

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









Foundation F ', 'A-2, 'A-3 - RH Monolithic Slab Fou Elevations 'A-1', 'A Redbud Model — R Up To 130 M.P.H. Carolina Division Slab 'A-1'

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Plan 3, &

Project #: 105-16009 Designed By: KRK Checked By:

Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34







 \approx 3, ڼ ,c-2, Plans 3-4', 'C-1',

Foundation F 3-2', 'B-3', 'B-- RH

LEGEND PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO

⇒ BEARING WALL ABOVE ПШШШІІ ⇒ INTERIOR BEARING WALL

48" WSP

VERIFY PER ELEVATION

19'-8"

■ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

MATCH POST SIZE ABOVE.

₩ LOCATION OF DOOR ABOVE

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



MONOLITHIC SLAB FOUNDATION PLAN

48'-0"

16" WIDE x 20" DEEP MONOLITHIC CONCRETE
FOOTING 20" WIDE W/ 4" 11'-101/4" GARAGE SLAB 4" THICK CONCRETE SLAB W/ FIBERMESH ON 6 MIL VAPOR -LEDGE @ BRICK VENEER BARRIER ON 95% COMPACTED FILL, SLOPE 1/8" PER 1'-0" TOWARDS DOOR, 11'-3" 4" THICK CONCRETE SLAB W/ FIBERMESH ON 95% COMPACTED FILL -16" WIDE TURNDOWN -16" WIDE TURNDOWN TO 12" BELOW GRADE TO 12" BELOW GRADE LINE OF BRICK @ ELEVATIONS 'B-2' W/ BRICK, 'B-3' W/ 1'-81/2" 1'-8½" 16'-3" BRICK & 'B-4'> 19'-8" VERIFY PER ELEVATION 28'-8" 48'-4" MONOLITHIC SLAB FOUNDATION PLAN

16" WIDE x 20" DEEP MONOLITHIC CONCRETE 11'-10%" GARAGE SLAB 4" THICK CONCRETE SLAB W/ FIBERMESH ON 6 MIL VAPOR BARRIER ON 95% COMPACTED FOOTING. 20" WIDE W/ 4" LEDGE @ BRICK VENEER EH. SLOPE 1/8" PER 1'-0" 4" THICK CONCRETE SLAB W/ FIBERMESH ON 95% COMPACTED FILL 16" WIDE TURNDOWN -16" WIDE TURNDOWN 12" BELOW GRADE TO 12" BELOW GRADE -LINE OF BRICK @ ELEVATIONS 'C-2' W/ BRICK, 'C-3' W/ 1'-81/2" 1'-81/2"-16'-3" BRICK & 'C-4'.

ELEVATIONS 'B-1', 'B-2, 'B-3' & 'B-4'

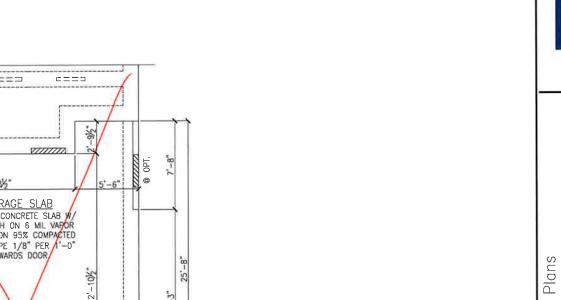
ELEVATIONS 'C-1', 'C-2, 'C-3' & 'C-4'

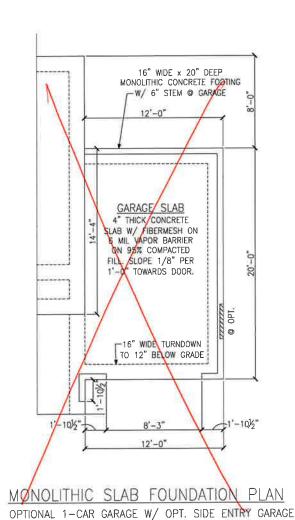
Monolithic Slab Fou Elevations 'B-1', 'B-2', Redbud Model — RH Up To 130 M.P.H. Carolina Division

Project #: 105-16009 Designed By: KRK

Checked By: Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34







OPTIONAL FIREPLACE AT FAMILY ROOM

101/2"

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING

-W/ 6" STEM @ GARAGE

30"x30"x12" DEEP CONCRETE

FOOTING

GARAGE SLAB 4" THICK CONCRETE

SLAB W/ FIBERMESH ON

MIL VAPOR BARRIER ON 95% COMPACTED FILL. SLOPE 1/8" PER 1'-0" TOWARDS DOOR.

DEEP CONCRETE FOOTING

1'-8/2"

OPTIONAL 1-CAR GARAGE

-16" WIDE TURNDOWN TO 12" BELOW GRADE

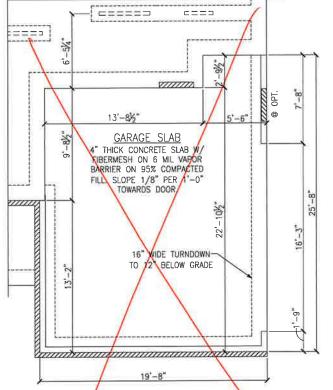
12'-0"

MONOLITHIC SLAB FOUNDATION PLAN

8" DEEP x 16"

WIDE THICKENED

SLAB (TYP.)



MONOLITHIC SLAB FOUNDATION PLAN

OPTIONAL SIDE ENTRY GARAGE



LEGEND

======= ⇒ BEARING WALL ABOVE

48" WSP

TYPICAL DETAILS

□□□⊞□□□ ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL

→ LOCATION OF DOOR ABOVE REFER TO KSE STRUCTURAL DETAILS SET

FOR GENERAL STRUCTURAL NOTES AND

PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO

(SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING &

BLOCKING DETAILS)

Slab Monolithic

Foundation

Options
Redbud Model — RH
Up To 130 M.P.H.
Carolina Division Project #: 105-16009 Designed By: KRK Checked By:

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Issue Date: 4/1/19

Re-Issue: 9/6/21 Scole: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

ELEVATIONS 'A-1', 'A-2', 'A-3' & 'A-4'







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

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

BLOCKING DETAILS)

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 SERIES OR EQUAL, SPACING PER MANUFACTURER.

KEYNOTES:

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



Second Floor Framing Pl Elevations 'A-1', 'A-2, ' Redbud Model - RH Up To 130 M.P.H. Project #: 105-16009

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Plan

Designed By: KRK Checked By: Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1"-0" @ 11x17 1/4"=1'-0" @ 22x34





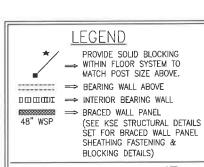
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,C-2,

, C-1,

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

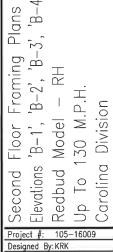
PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 SERIES OR EQUAL, SPACING PER MANUFACTURER.

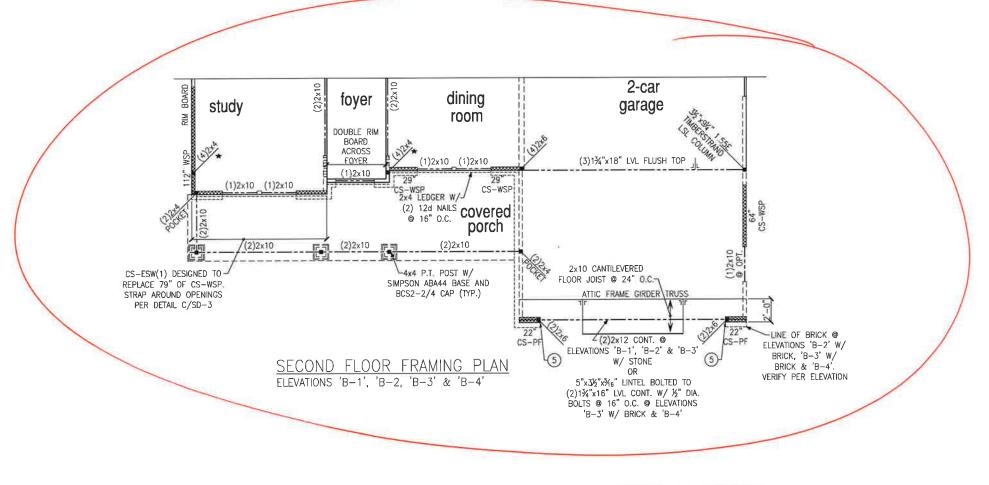
KEYNOTES:

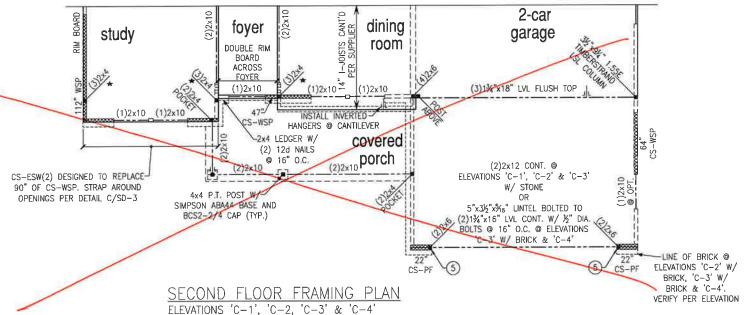
5 INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





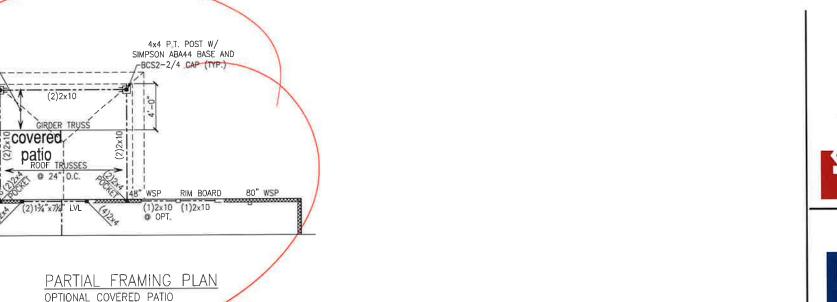
Checked By: Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

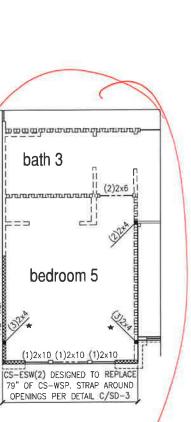












PARTIAL FRAMING PLAN

OPTIONAL BEDROOM 5 & BATH 3

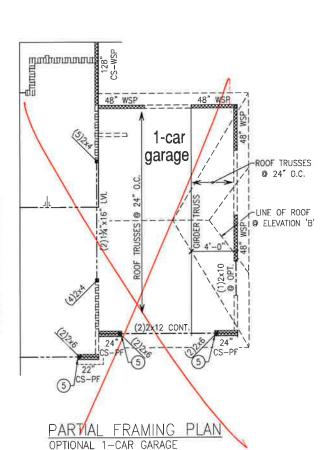
ILO STUDY AND POWDER ROOM

@ 24" O.C.

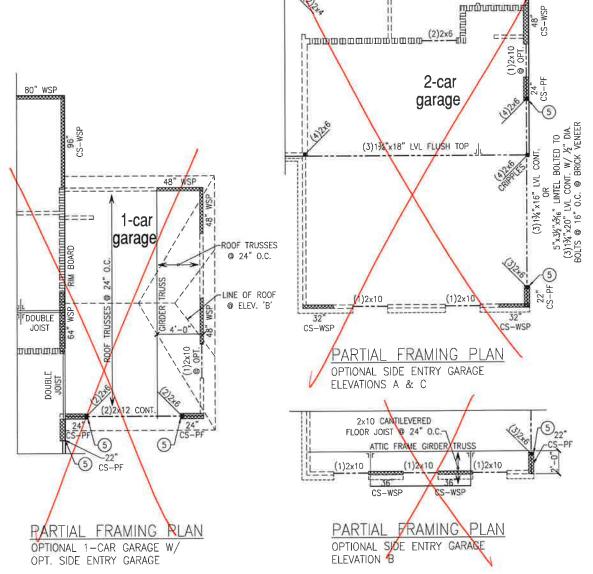
(1)2x10

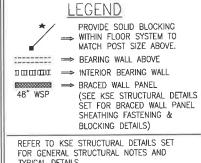
67" WSP

OPTIONAL FIREPLACE AT FAMILY ROOM



ROOF TRUSSES-





TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 SERIES OR EQUAL, SPACING PER MANUFACTURER.

KEYNOTES:

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



Second Options Redbud Up To 1 Up Car Project #: 105-16009 Designed By: KRK Checked By:

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Model

130 M.P.H. a Division

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Framing

Floor

Issue Date: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34





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Framing P -1', 'A-2, el - RH

130 M.P.H.

Up To 13 Carolina

Redbud Model

Division

Plan 'A-



64" WSP (2)1¾"x7¼" LVL

(1)2x10

casual

dining

storage

(1)2×10

covered

2x4 LEDGER W/ (2) 12d NAILS @ 16" O.C.

porch (2)2x10 (2)2x10

OPENINGS PER DETAIL C/SD-3

CS-ESW(1) DESIGNED TO REPLACE 58" OF CS-WSP. STRAP AROUND

SECOND FLOOR FRAMING PLAN

ELEVATIONS 'A-1', 'A-2', 'A-3' & 'A-4'

CS-PF

(2)2×10 FLUSH

foyer

LADDER TRUSS

ACROSS FOYER

(1)2x10

(2)2x10

(1)2x10

family room

ammonaaappoaammo—

(1)2x10 (1)2x10 (1)2x10

4x4 P.T. POST W/

SIMPSON ABA44 BASE AND BCS2-2/4 CAP (TYP.)

powder

study

CS-ESW(2) DESIGNED TO REPLACE-

79" OF CS-WSP. STRAP AROUND

OPENINGS PER DETAIL C/SD-3

room 48" WSP

بمرمه مهمه مهمه مسرح

(2)1¾"×14"

GIRDER TRUSS

(2)2×6 ABOVE

dining

room

(1)2x10

(1)2x10 (1)2x10 OPT.

kitchen

(2)2x6

(2)2x6

2-car

garage

(3)13/4"x18" LVL FLUSH TOP

(2)2x12 CONT. @ ELEVATIONS

'A-1', 'A-2' & 'A-3' W/ STONE OR

5"x3½"x¾6" LINTEL BOLTED TO

'A-3' W/ BRICK & 'A-4'

5"x3½ x%6 LINIEL DULLED IS (2)1¾"x16" LVL CONT. W/ ½" DIA. BOLTS @ 16" O.C. @ ELEVATIONS

80" WSP

pantry

storage

(2)2×10

FLUSH

LINE OF BRICK @

ELEVATIONS 'A-2' W/

BRICK, 'A-3' W/ BRICK & 'A-4'. VERIFY PER

ELEVATION

CS-PF

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

 \implies BEARING WALL ABOVE ☐☐☐☐☐ ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL

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

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

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP OPEN WEB TRUSSES, SPACING PER MANUFACTURER.

KEYNOTES:

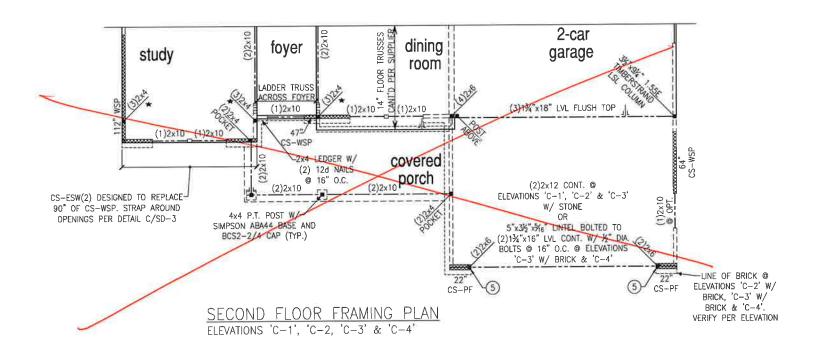
48" WSP

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



Second Floor Flevations 'A-Project #: 105-16009 Designed By: KRK Checked By: Issue Date: 9/6/21 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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,C-1,

,B-4,

Framing Pla '8-2', '8-3', 'I I - RH

,B-1',

Elevations Redbud

130 M.P.H.

Up To 1. Carolina

Model

Division

Plans

Floor

Second

_EGEND

PROVIDE SOLID BLOCKING

⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. ⇒ BEARING WALL ABOVE

48" WSP

 \Longrightarrow INTERIOR BEARING WALL ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

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

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP OPEN WEB TRUSSES, SPACING PER MANUFACTURER.

KEYNOTES:

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



Project #: 105-16009 Designed By: KRK Checked By: Issue Date: 9/6/21 Re-Issue: Scale: 1/8"=1"-0" @ 11x17 1/4"=1"-0" @ 22x34

ROOF FRAMING PLAN ELEVATIONS 'B-1', 'B-2, 'B-3' & 'B-4'







⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. ⇒ BEARING WALL ABOVE

DⅢⅢIII ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL

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

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

PLAN DESIGNED WITH 8' WALL PLATES

KEYNOTES:

- 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'x8' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- 11) 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES

 ② 24" O.C. (TYP.)



Roof Framing Plan
Elevations 'B-1', 'E
Redbud Model — RI
Up To 130 M.P.H.
Carolina Division Project #: 105-16009 Designed By: KRK Checked By: Issue Dote: 4/1/19 Re-Issue: 9/6/21 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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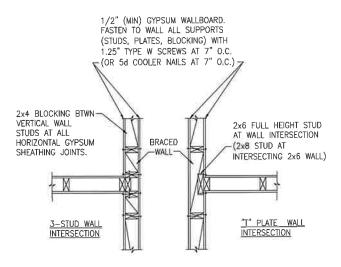
Plan .





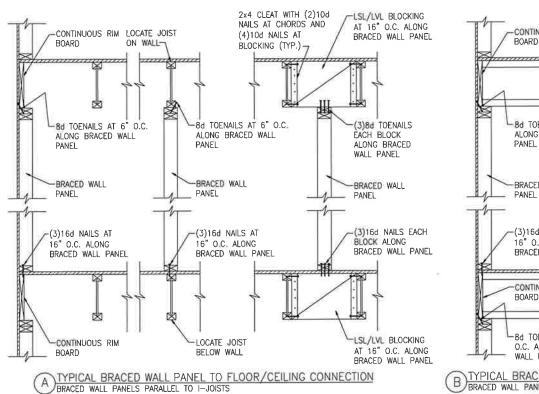


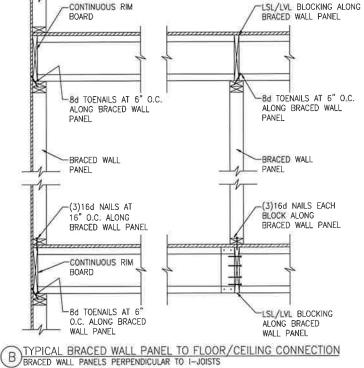


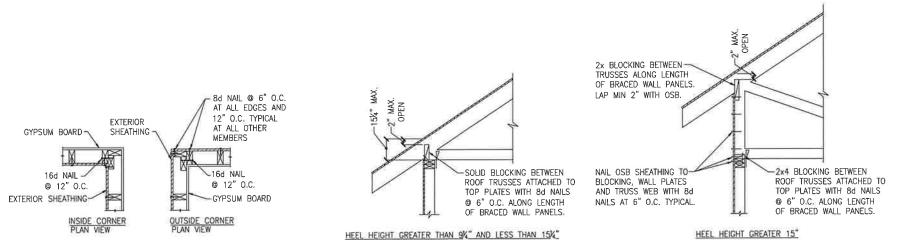


BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD.

(C) METHOD GB(1) AND GB(2) INTERSECTION DETAILS







DTYPICAL EXTERIOR CORNER WALL FRAMING

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

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

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

Detail

Wall

Braced

M.P.H.

130

to Up to North

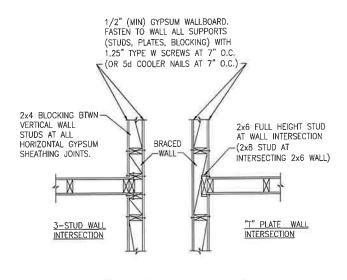
Carolina





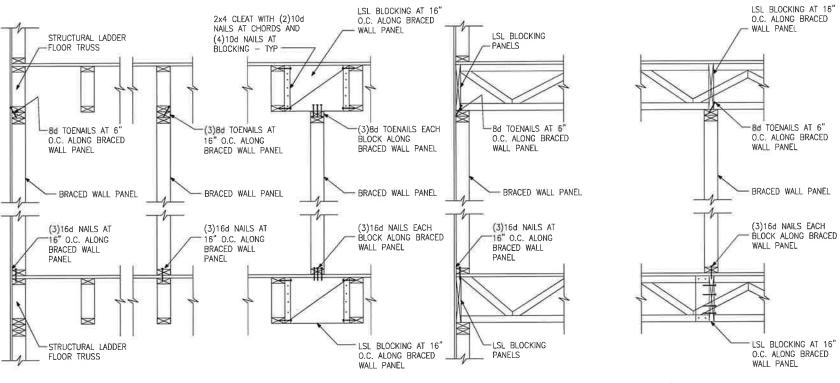






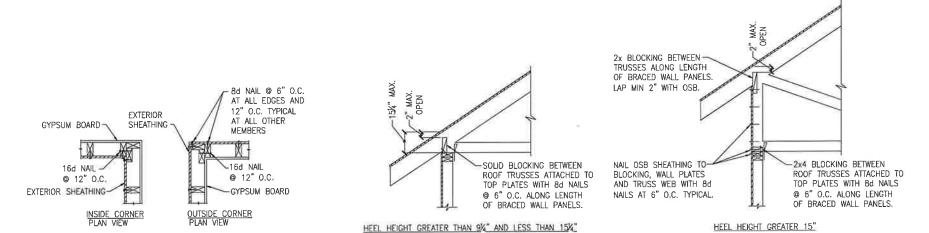
BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD. (C) METHOD GB(1) AND GB(2) INTERSECTION DETAILS

BRACED WALL INTERSECTIONS MAY



TYPICAL BRACED WALL PANEL TO FLOOR / CEILING CONNECTION BRACED WALL PANELS PARALLEL TO TRUSSES

B TYPICAL BRACED WALL PANEL TO FLOOR / CEILING CONNECTION BRACED WALL PANELS PERPENDICULAR TO TRUSSES



(D) TYPICAL EXTERIOR CORNER WALL FRAMING

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

Framing Truss Floor Details Wall Braced

130 M.P.H. إ Up to North

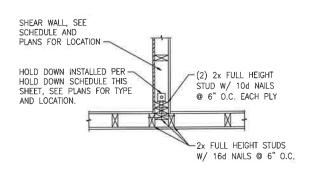
Carolina

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



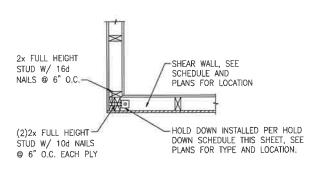




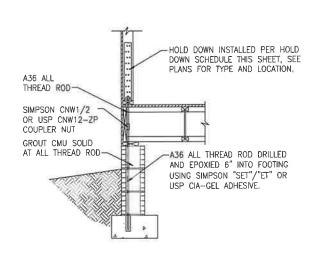
HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE AND LOCATION.

DHOLD DOWN AT MONOLITHIC SLAB FOUNDATION

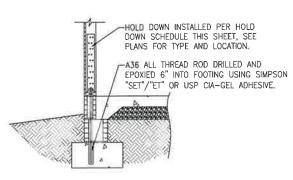
-A36 ALL THREAD ROD DRILLED AND
EPOXIED 6" INTO FOOTING USING SIMPSON
"SET"/"ET" OR USP CIA-GEL ADHESIVE.



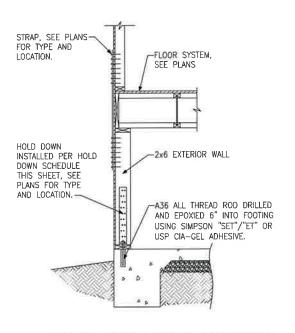
B TYPICAL HOLD DOWN DETAIL



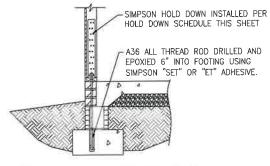
(E)HOLD DOWN AT CRAWL SPACE FOUNDATION



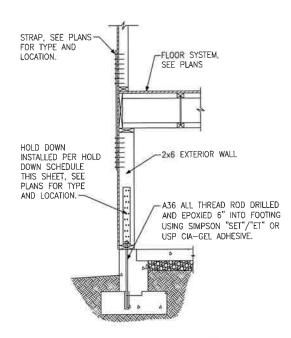
(C)HOLD DOWN AT STEMWALL SLAB FOUNDATION



HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



(C)HOLD DOWN AT STEMWALL SLAB



G HOLD DOWN AT BASEMENT FOUNDATION

HOLD DOWN SCHEDULE				
HOLD DOWN SIMPSON USP		ALL THREAD ROD	FASTENERS	
LTT20B	LTS20B	½" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx21/2" LONG NAILS	
НТТ5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS	



Project #: 105-19000 Designed By: KRK Checked By: Issue Date: 1/1/19 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

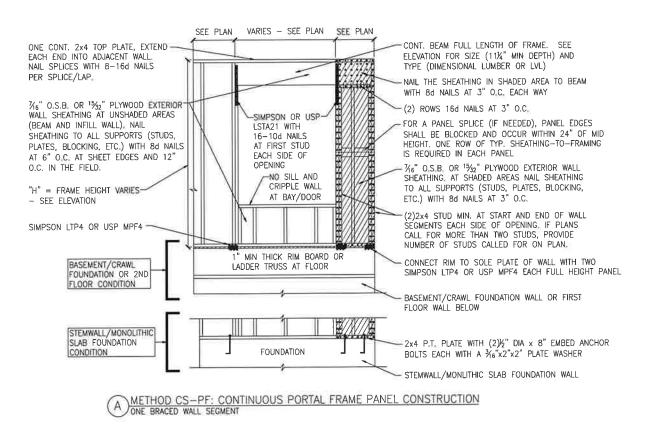
Detail

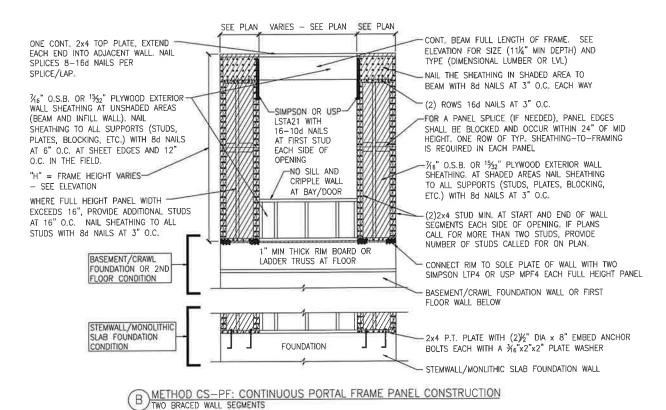
Hold

130 M.P.H.

t0 Up to North

Carolina

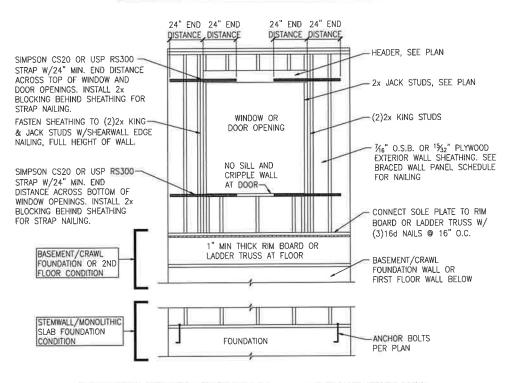




BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1,25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1,25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT 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
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

BRACED WALL PANEL NOTES:

- 1. 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 1/16" O.S.B., OR 15/2" 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.
- 4. BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM I FINGTH REQUIRED.



WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFED ON PLANS





braced Wall Notes & Deta

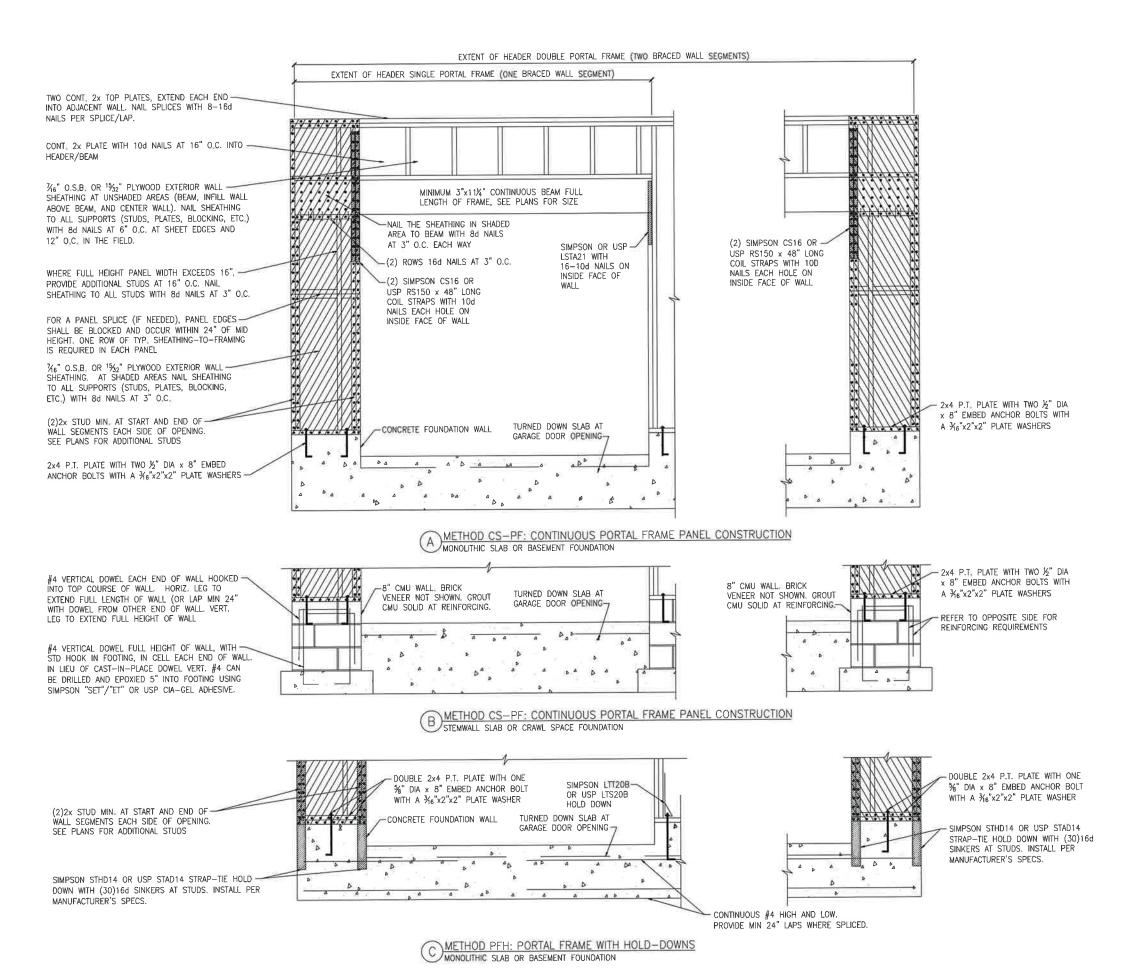
Up to 130 M.P.H.

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

SD-3



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



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Up Project #: 105-19000 Designed By: KRK

M.P.H.

130

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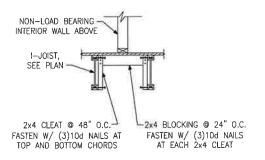
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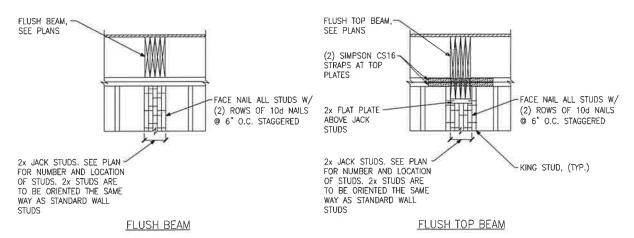
Checked By: ssue Date: 1/1/19

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

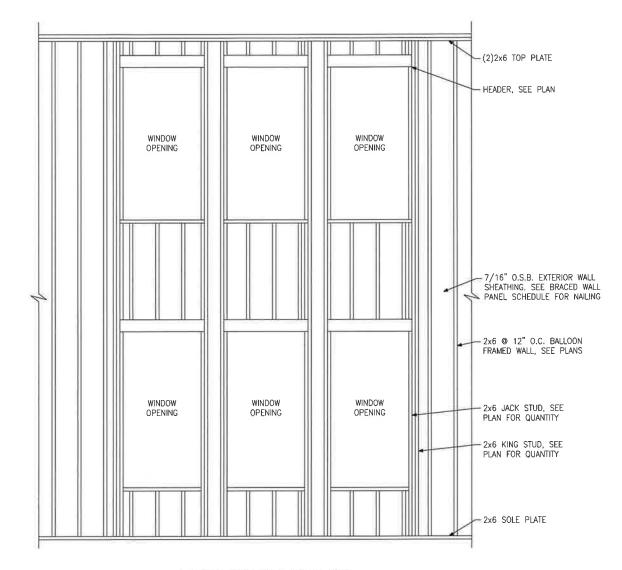
1/4"=1'-0" @ 22x34



C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



E BUILT-UP STUD DETAIL SUPPORTING BEAM



DBALLOON FRAMED WALL DETAIL N.T.S.

Miscellaneous Framing Details

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

130 M.P.H.

Carolina

Up to North

ENGINEERING
E, SUITE 201, QUAKERTOWN, PA 18951
COM (215) 804-4449

SE

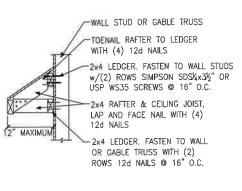
SD-5











C EYEBROW ROOF DETAIL
STRAIGHT ROOF

-LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH

2x4 LEDGER. FASTEN TO WALL STUDS

USP WS35 SCREWS @ 16" O.C.

-2x4 RAFTER & CEILING JOIST,

-FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS.

WALL STUDS WITH (2) ROWS

BRICK VENEER, PER ELEVATION

-2×4 LEDGER FASTEN TO

12d NAILS @ 16" O.C.

-SIMPSON U24-2 OR USP

SUH24-2 HANGER

w/(2) ROWS SIMPSON SDS1/4×31/2" OR

SIMPSON H3 OR USP RT3A

WALL STUD OR GABLE TRUSS

-WALL SHEATHING

-2x4 VERTICAL

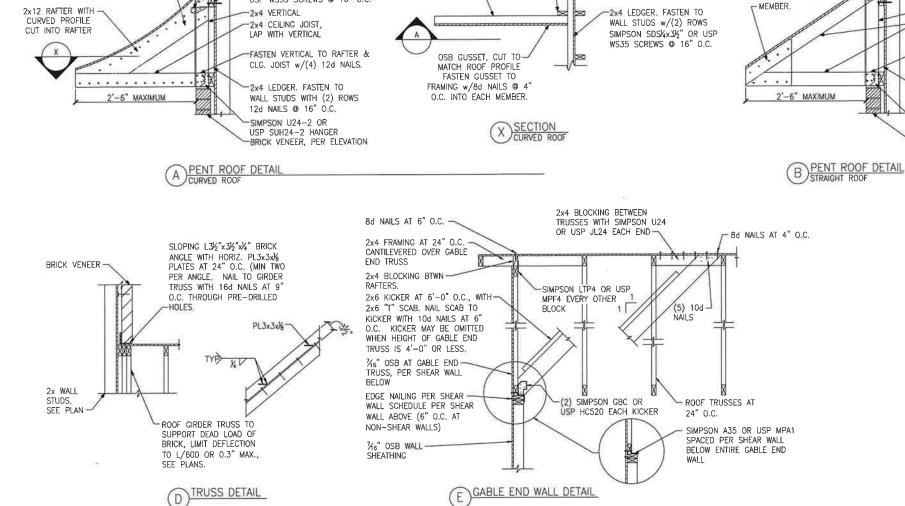
LAP WITH VERTICAL

12"x12"x12" OSB GUSSET.

FRAMING w/8d NAILS @

FASTEN GUSSET TO

4" O.C. INTO EACH



2x12 RAFTER WITH

CURVED PROFILE

CUT INTO RAFTER-

2x4 VERTICAL

-LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH

USP WS35 SCREWS @ 16" O.C.

-2x4 LEDGER. FASTEN TO WALL STUDS

w/(2) ROWS SIMPSON SDS1/4x31/2" OR

SIMPSON H3 OR USP RT3A

-WALL STUD OR GABLE TRUSS

-WALL SHEATHING

OSB GUSSET, CUT TO

MATCH ROOF PROFILE FASTEN GUSSET TO

FRAMING w/8d NAILS @ 4"

O.C. INTO EACH MEMBER.

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

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

Detail

Framing

Miscellaneous

M.P.H.

130

to Up to North

Carolina