KENZIE H&H HOMES - GARAGE LEFT

PLAN REVISIONS

Ø1-10-19 COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS

Ø1-15-19 CLIENT BACK END COMMENTS

Ø1-24-19 MIRROR PLAN TO CREATE LEFT HAND VERSION

03-26-20 UPDATED ROOM NAMING PER HITH STANDARDS ADDED 2x6 WALL FLOOR PLANS & ELECTRICAL PLANS CHANGED ELEVATION 'A' ('C' TO 'A-I' ('C-I' ADDED ELEVATIONS 'A-2' ('C-2' CHANGED ELEVATION 19 TO ELEV, 19-7" AND ADDED NEW ELEV, 19-1" BROKE OUT OPTIONS FROM THE FLOOR PLANS AND MADE A SEPARATE PAGE FOR OPTIONS

ELEVATION "A" 804 SF. 1154 SF. 1958 SF. MAIN FLOOR UPPER FLOOR TOTAL LIVING GARAGE 48Ø SF. FRONT PORCH PATIO TOTAL SQ. FT. 82 SF. OPT. COV. PORCH |20 SF. OPT. EXT. PORCH |60 SF OPT | CAR GARAGE |240 SF.

ELEVATION "E	3"	
MAIN FLOOR	804 5	F.
UPPER FLOOR	1170 5	F.
TOTAL LIVING	1974 5	F.
GARAGE	480 5	F.
FRONT PORCH	83 5	F.
PATIO	120 5	F.
TOTAL SQ, FT,	2657 5	F.
OPT, COV. PORCH	120 5	F.
OPT. EXT. PORCH	160 5	F.
OPT. I CAR GARAGE	240 5	F.

ELEVATION "	C II	
MAIN FLOOR	804	SE
UPPER FLOOR	1170	55.50.0
TOTAL LIVING	1974	SF.
GARAGE	480	SF.
FRONT PORCH	8	SF.
PATIO	120	SF.
TOTAL SQ. FT.	2655	SF.
OPT. COV. PORCH	120	SF.
OPT. EXT. PORCH	60	SF.
OPT. I CAR GARAGE	240	SF.

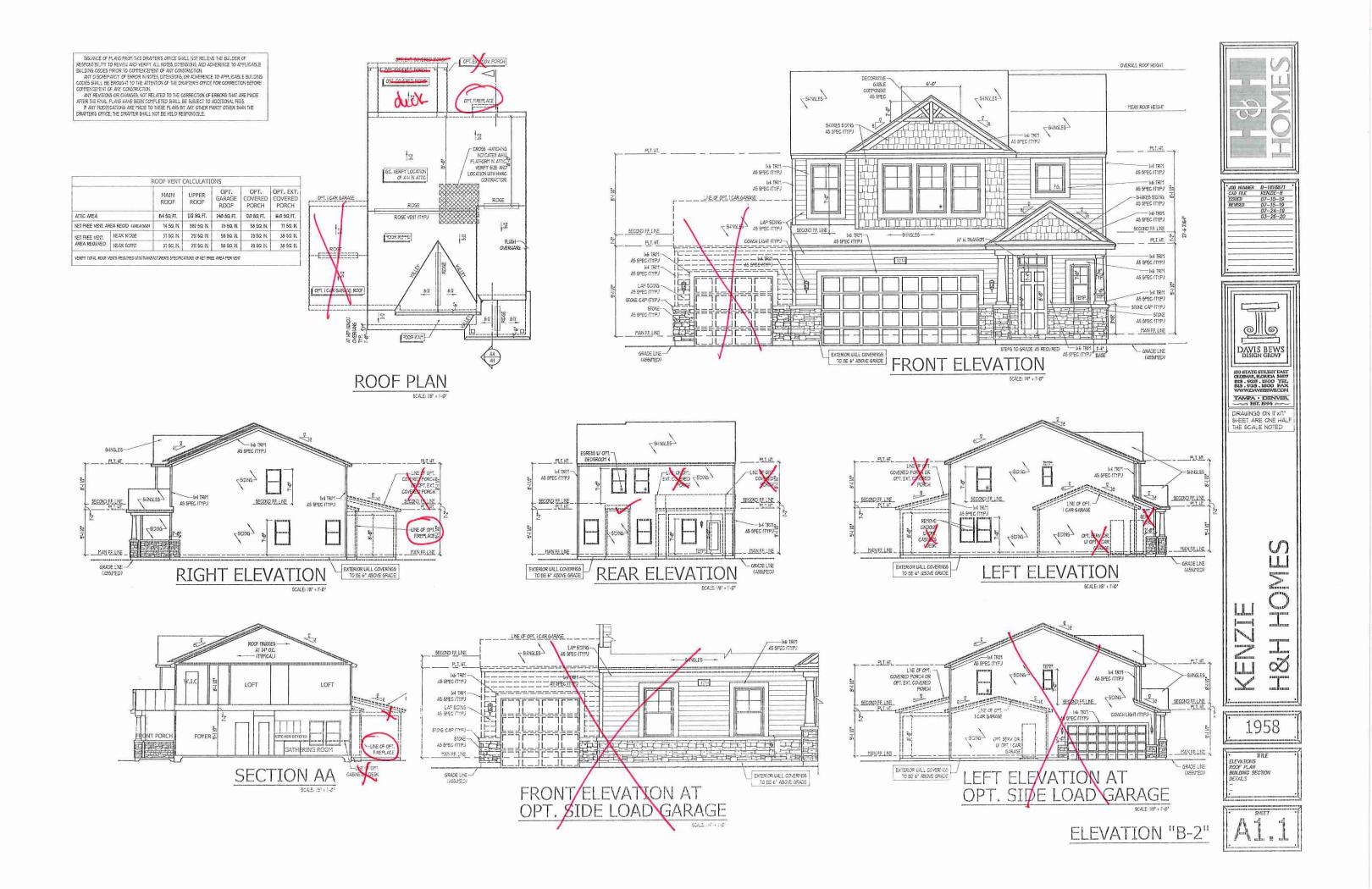
DAVIS BEWS DESIGN GROVE

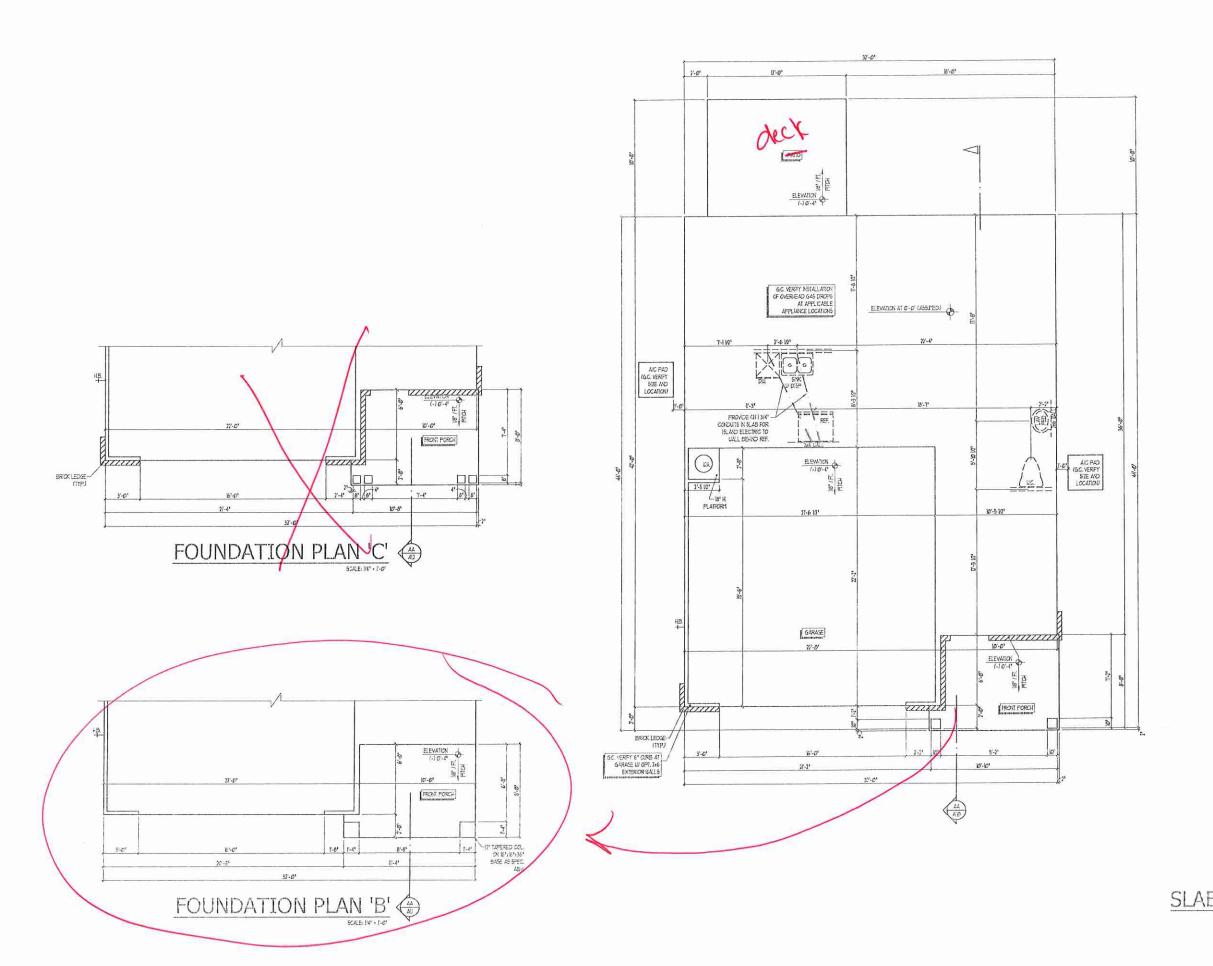
TAMPA · DENVER

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

REVISION LOG

BEJANCE OF PLANS FROM THE DRAFFLES OFFICE SHALL NOT RELEVE THE BULDER OF RESPONSIBILITY TO REVISE AND KERRY ALL NOTES, DYNEMIONS, AND ADMERSIZE TO APPLICABLE BULDING CODES PROVED TO CONTENDED OF ANY DESCRIPTION OF THE PROPERTY OF THE FORMATION OF THE PROPERTY OF THE FORMATION OF THE PROPERTY OF THE FORMATION OF THE PROPERTY OF THE P











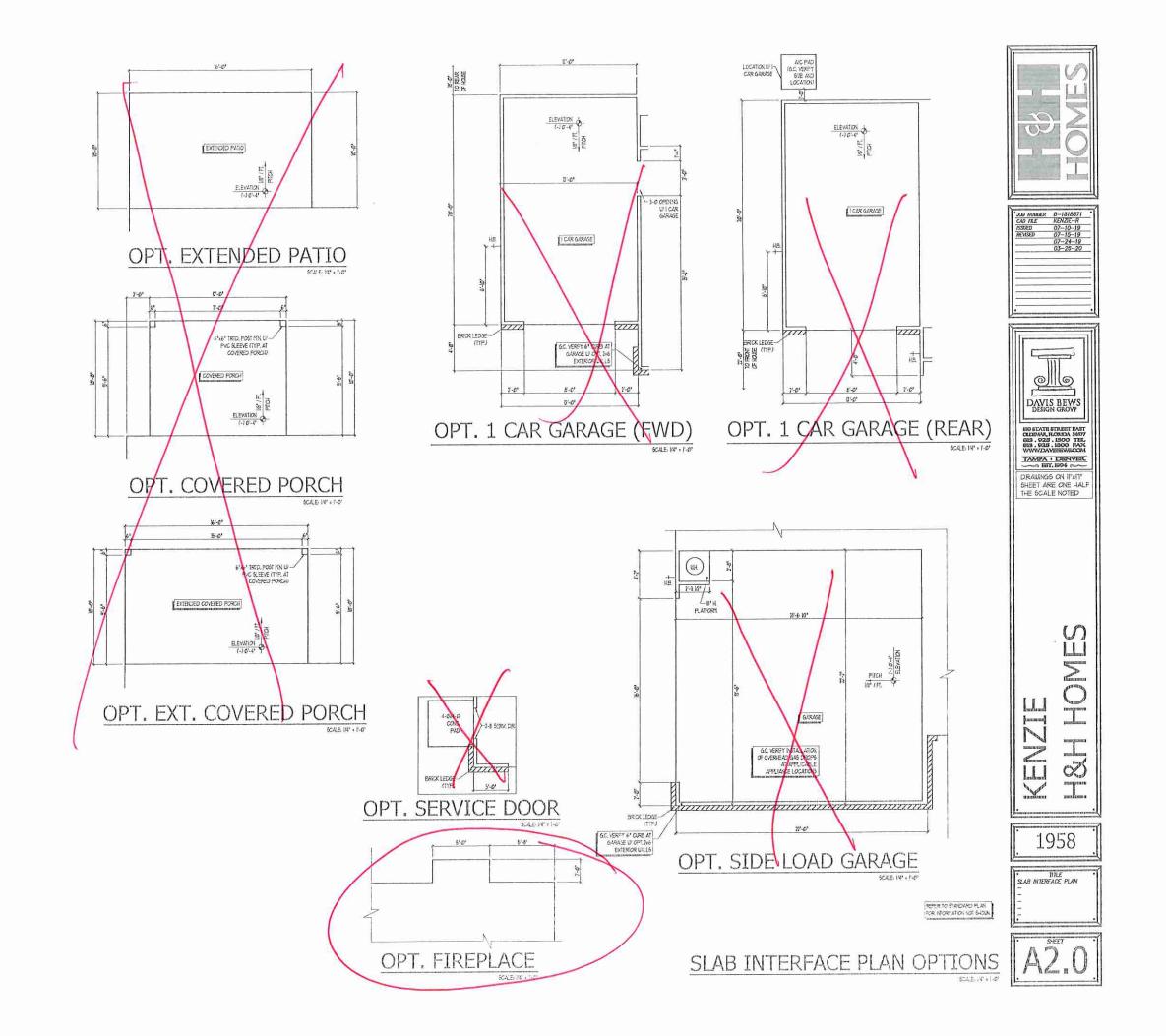
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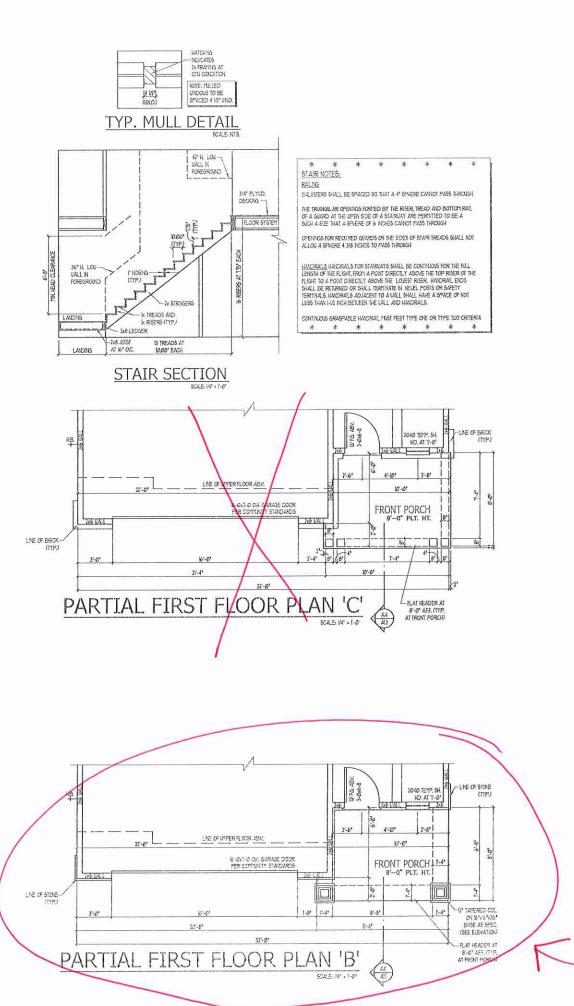
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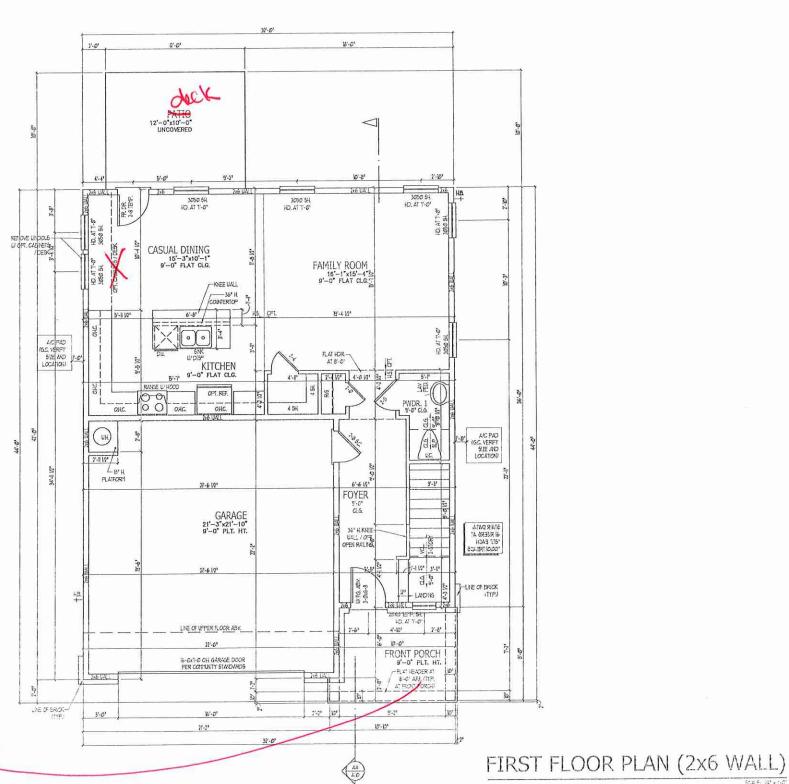


SLAB INTERFACE PLAN

SALE WITHOUT A 2 0









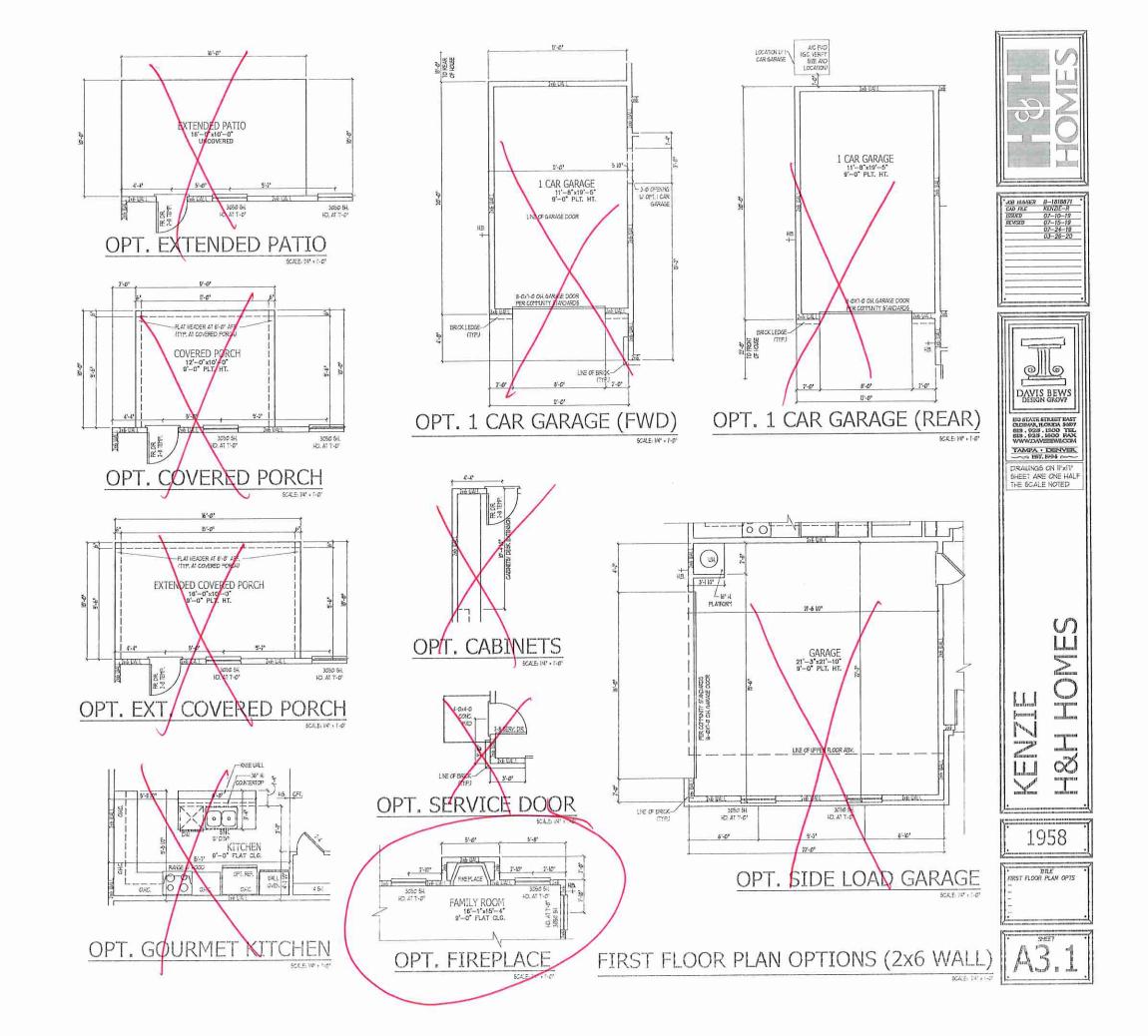


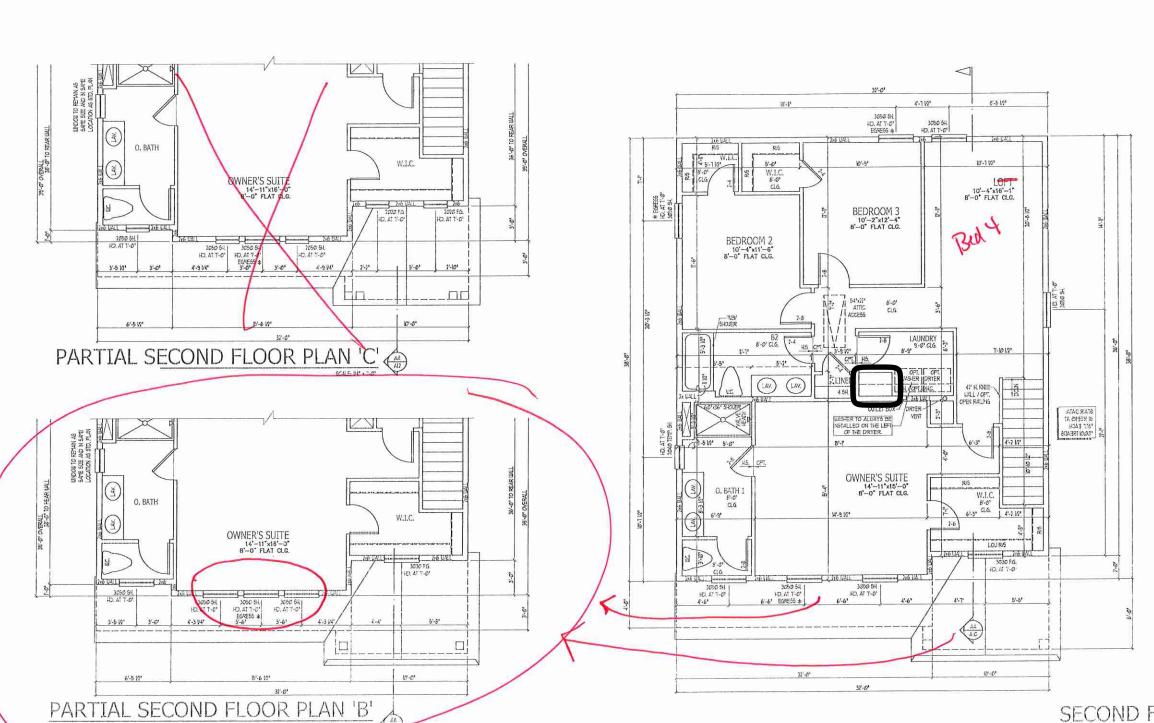


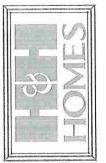
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HRST FLOOR PLAN

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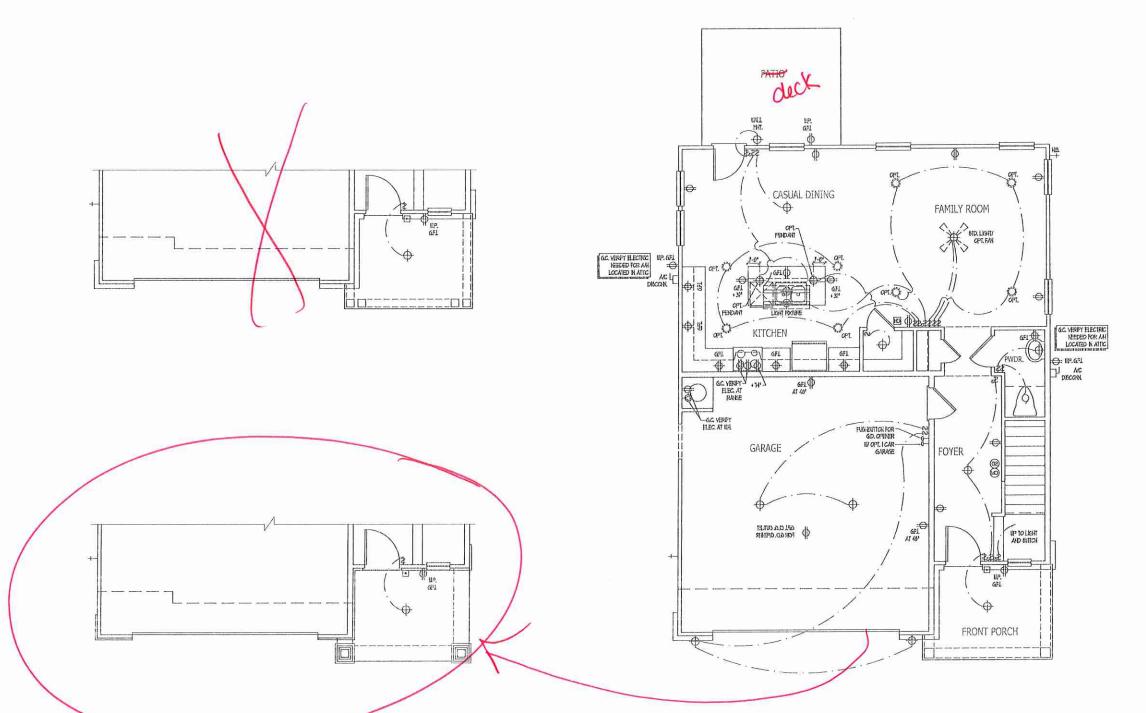
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SECOND FLOOR PLAN (2x6 WALL)

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4-110° 8'-5 10° 85-5 94 10. AT 1'-6°	
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BEDROOM 4 10"-4"x10"-0" 5 8"-0" PLAT C.G. 5	
8'-0' FLAT CLC. 5	Land H
3:61 7:101	
an-o 2	JOB NUMBER B-181 CAD FILE KENZI ISSUED 07-10 REWISED 07-15
R/S H	07-24 03-26
OPT. BEDROOM 4 I.L.O. LOFT	
∫—TUB/ /\$IDLER	
BATH 2	
8-0 CLB H5, CPT.	
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NUMBER OF THE PROPERTY OF THE	ES STATE STREET CLDEWR, FLOUDA SES . 925 . 1900 SIS . 925 . 1800 WWW.DAVEESW
OPT. WALL IN BATH 2	TAMPA · DEN ————————————————————————————————————
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	TITLE

SECOND FLOOR PLAN OPTIONS (2x6 WALL)

A3.3



ELECTRICAL KEY

- |⊕ DINFEX CONVENIENCE CONVEN
- EATHERTOGRAMES ONLET
- GOND FALL MENT PER DATEX ONLET
- O SPECIAL PURPOSE CUILET
- E DELEX CUTLET NELOCR |⊕ 200 VOLT OUTLET
- MATT BILLICH
- THREE-BAY BUTTON
- FOUR-BLAY SUTICH PITTER BUTCH
- CELING HOLNTED INCANDESCENT LIGHT FIXTURE
- EALL HONTED NOADEROBIT LIGHT FORLIFE
- RECEISED NOADEROENT LIGHT FIXTURE - PEC TRAIL HOUSE RUTH LATT CHAN
- TRACK LIGHT
- O EXPOSIT FAN
- EMALET FAN
- DAVINE HAVE BUT COMPANION

 HECTISC DOOR OFFICIATION (OPTIONAL)
- EN CHICKLO ENTO
- CARBON HONOXIDE DETECTOR
- SO SHOKE PETECTOR
 SOS SHAKE / CARDON HOND, CONED DETECTOR
 ICI TELEPHONE (OPTIONAL)
- THEYWAY (OPTIONU)
- (T) THERMOSTAT
- ELECTRIC HETER
- HECTRIC PAREL
- _ PECONECT SUTCH
- ⊗ treaver (cp) kanal)
- TA ROUGH N FOR OPT, CELLING FAN
- CELING HOWITED INCANDEDCENT LIGHT FATURE IN POLICE IN FOR CPT, CELING FAN

1. PROVOE AND INSTALL GROUND FALL CROUT-MIERS/PIERS (GFU AS NOICATED OF PLANS OR AS TIET NO. 4 AND 5 EELOS NOICATED.

3. ALL RYCKE DETECTORS SHALL BE HARDARED NTO AN ELECTRICAL POTER ROJRCE AND GIVILL BE EQUIPPED WITH A HONTORED BATTERY BACKUP, FROMDE AND NOTALL LOCALLY CERTIFIED <u>GYCKE DETECTORS</u>

4. ALL BA AD 28A RECEPTACLES IN METETAL FOOTS, FAPILY ROOTS, DINN ROOTS, LIMB ROOTS, PARLOTS, LERAVES, DEB, BUROOTS, ECCRETICA ROOTS CLOSES, RALLIOTS, AD STELLA FASA BLE FECULE A COLDMARTA TITLE FELL DEVICE AD TAPERS-FROOT FECULFIA/LES FERI NEC. 201 4260 AND 4268

5, ALL BA AND 20A DOV FECEPTACLED LOCATED IN THE GARAGE AND UTILITY ROOTS SHALL BE GECL PROTECTED (GFL):

6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAN TO ENGINE THAT ALL ELECTRICAL LOSK IS NIFILL COPPLIANCE WITH MEPA TO, NEC. 2011, NO ALL METLICANTE LOCAL STATUMORS, CODES, AND ORDANACES.

1. EVENT BULDNS HAME A FOXUL-REL-ENTRES HEATER OR AFFLINCE, FRETLACE, OR AR ATUGED GRACE WILL HAVE AR OFFENTIONAL CARDON FOXONE DETECTOR NOTALLED WHIT OF HEAT OF EACH ROOM (HEAT RE-REVOXED.

& ALAPTE BULL, RECENE THER PROVINT POWER FROM THE BULDING WINNS HEN SUCH WINN IS SERVED FROM THE LOCAL POWER WILLIT, SLOTA JUAPIE SMULL MARE BUTTERT BULDE COMPANION SERVECK-MORN (NEXCOR ALAPTE SMULL BE LISTED OR LIVELED BY A NATIONALLY PECONYED TESTING LIPEDATION).





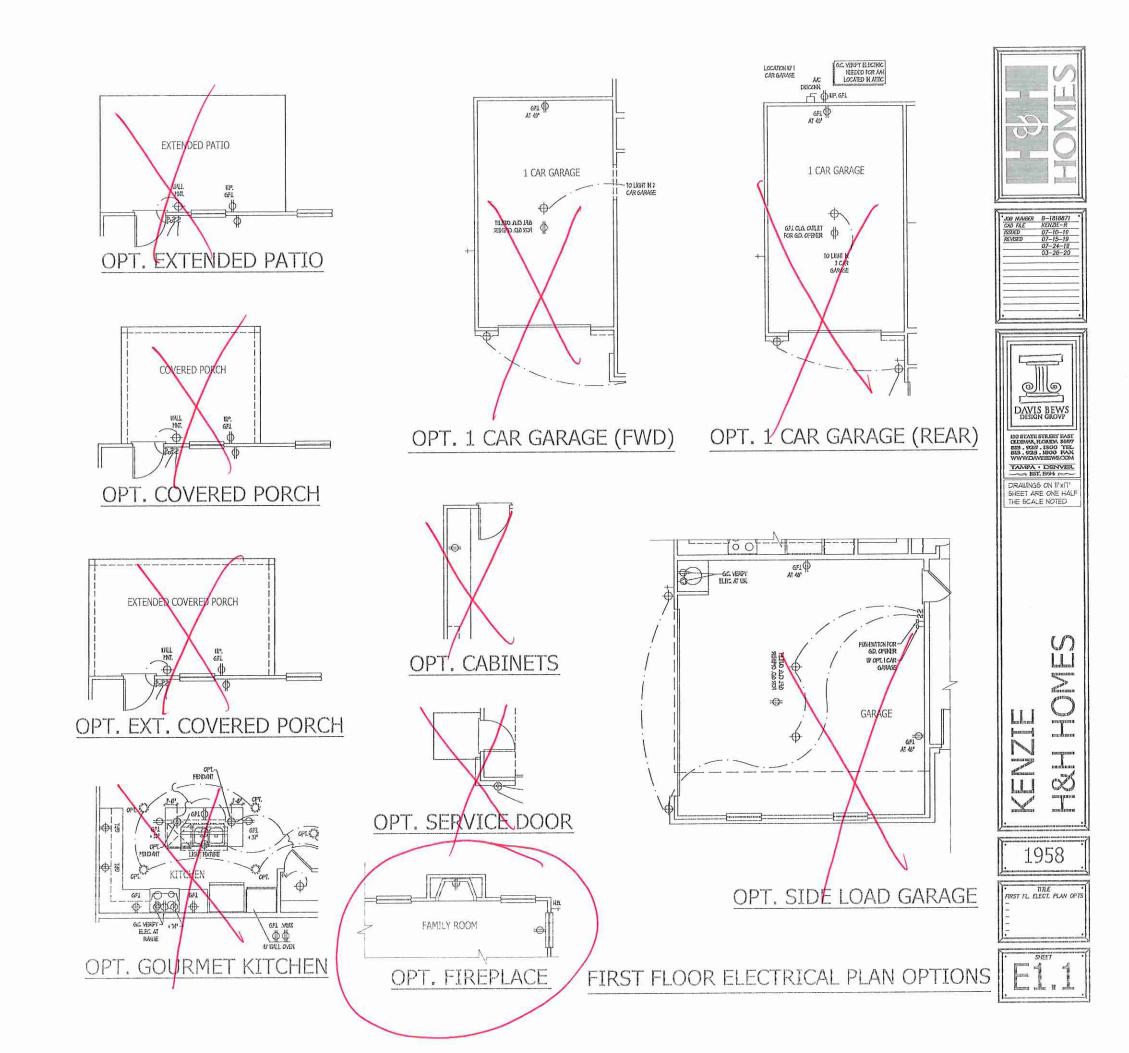
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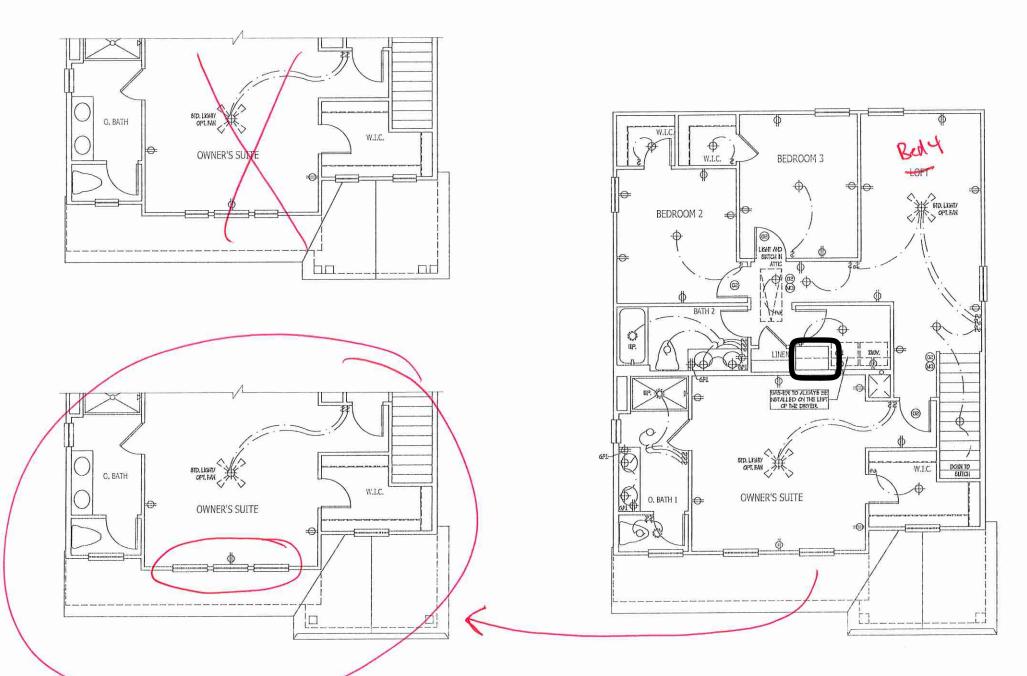
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• TITLE FIRST FL. ELECT. PLAN

FIRST FLOOR ELECTRICAL PLAN





ELECTRICAL KEY

- □ DIFLEX COMBIBICE OFFIET
- THE DIFLEX OILET ABOVE CONTER
- ION MEATHER POOR DURIES OUTLET
- GEN GROUD FALT NIERRPIER DATEX OMET
- O SPECIAL PROPOSE OFFICE
- APPEX OUTLET NILOOR
- 220 VOLT OVILET
- EATT BILLION \$3 THREE-UNY BUTCH
- FOLK-MAY BUTCH
- D PHERSITOI
- CETIVE HONIED INCREDENCE LITTLE HOURE
- P RATT HONIED NOWDESCENT TRAIL HOUSE
- O RECEIVED INCADERCENT LIKELY EXTURE

- DEPARTMENT HAVE

 DEPARTMENT FAIR

 DEPART
- DOWNST FAMILIERT COMBINATION ELECTRIC DOOR OF BRATOR (OPTIONAL)
- E CHIES (CPTICAUL)
- D FUSION FUNCH (OPTIONAL)
- CARBON HONOXIDE DETECTOR
- CHARE DETECTOR
 SHORE / CAREON HOND, CONTRO DETECTOR
 THE SHORE (OPTIONAL)
- TELEVISION (OFFICIALL) TATEOPERT ①
- ELECTRIC HETER
- ELECTRIC PAREL
- _ paconect sunch
- ⊗ treater (optional)
- POLISH N FOR OPT, CHILING FAN
- CELLAS HONIED NEADESCENT LISHT FORINGE IS ROUGH HOOK OFT. CELLAS FAN

NOTES:

I. FRO/DE A'D NOTALL <u>GRAND FALL</u> CREAT-NIERR PTERS (GFU AS NDICATED ON FLANS OR AS TIEF NO. 4 AND 5 EEL OF NDICATES.

1. UNLESS OTHERWISE ROCKATED, INSTALL SKITCHES AND RECEPTACLESS AT THE FOLLOWING HEIGHTS AROUGH FRANCE FLOOR COUNTRY OF THE PROBLEM. IN COLUMN CONTENTION THE PROBLEM. IN COLUMN CONTENTION THE PROBLEM. IN

3. AL GYCKE DETECTORS GHALL FE HARDENED NYO AN ELECTRICAL POVER CORCE AND MALL BE EXPITED WITH A PUNICAED BATTERY BACKLIP, FROADE AND NOTALL LOCALLY CERTIFED BYCKE DETECTORS.

4. ALL BA AND 26A FECEPTACLES IN GLEFFIG ROCKS, FAFILY ROCKS, DANS ROCKS, LIAMOS ROCKS, PREJONS, LERANSES, DEIS, GUNDOCKS, EGGENTACK ROCKS, CLOSETS, MULLINS, AND MILLAR ROCKS OLL REGULES A COLDMANTA TITTE AFGL DENCE AND TAPER-FROCK RECEPTACLES FER NEC. 260 4660 AND 46618

B. ALL BA AND 20A BOY RECEPTACED LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GEGL PROTECTED (GEL).

6. II IS THE PREPOREBLIST OF THE LICENSED ELECTRICAM TO ENGRE THAT ALL ELECTRICAL DORK IS MIRLL CONFLAME WITH MEPTA TO, NEC. 2017, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EMENT BILLDA'S HAWAS A FORMUL FILE - EURONG HEATHER OR AFFLIMEE, FREPLACE, OR AN ATMONED GARACE SHALL HAVE AN OFERANDAIL CARRON PERSONED EXTENSION SHALLED WHITH TO HEAT OF EVEN FLOOT WEED FOR ELEPTING FREFOCES.

A JUAN'S WALL RECENT THEIR PRIMARY FOUR FIRST THE BUILDING WIRNS WHEN SICH WEN'S IS SERVED PROTITE LOCAL POWER WILLING SICH JUAN'S SHALL WAS BUTTEST BELOFF ON THANKING WINGSCHOOL OR MOONED FAR MISS AND LINE LISTED OF LIBERTED BY A MATIONALLY PEDDOMINED TERMS LIFERATION.





EO STATE STRUST BAST CIDEMA, ROBIDA SASTI EES . 925 . 1500 TEL. 613 . 925 . 1600 FAX WWW.DAVEESWE.COM TAMPA · DENVER

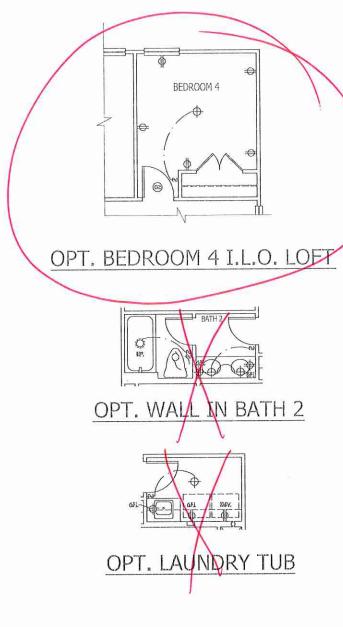
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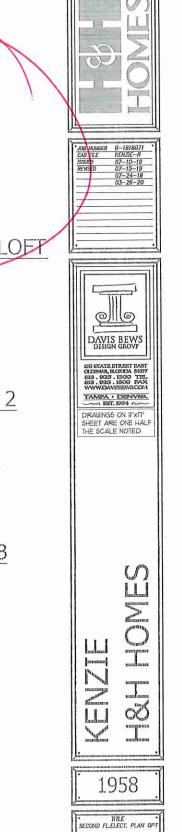
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1958

TITLE SECOND FLELECT. PLAN

SECOND FLOOR ELECTRICAL PLAN





SECOND FLOOR ELECTRICAL PLAN OPTIONS

E2.1



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

KENZIE

NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIMIL, 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

DESIGN LIVE LOADS;

- RODF = 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..

DESIGN WIND LOADS:

- · 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_6 =2,325 PSI, F_V =310 PSI, F_C =900 PSI + LVL: E=2,000,000 PSI, F_B =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.





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Project #: 105-19004 Designed By: KRK Issue Date: 8/29/19 Re-Issue: 4/30/20 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-5" @ 22x34



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 DTHER PARTY MAY REVISE, ALTER, OR DELETE MAY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSF 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.

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 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 TRUCTURAL 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 FIFLD 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 FLEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAW! 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 DETAILS.

FOUNDATIONS:

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

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

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 FACH SIDE OF FOUNDATION WALLS, MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING

WOOD SHI PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH & 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% MAXIMUM DRY DENSITY.

EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NCT OCCUR WITHIN 24 HOURS OF EXCAVATION.

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 DUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS). 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 DEBRIS.

14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER, ALL JOINTS TO BE LAPFED 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), UNLESS 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 CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX

CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACL 302, IR: "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 N 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 USF 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.

15. 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 ACI 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

TILE, 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 CRSL 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.

MASONRY

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

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.

FIGHT SPACE PIERS HALL 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 WALL

TOP COURSE OF MASONRY SHALL BE GROUFED SOLID.
HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS

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 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 VALUES:

E=1,400,000 PSI, Fb=875 PSI, Fv=135 PSI 1.1. FRAMING: SPF #2.

1.2. PLATES: SPF #2 1.3 STUDS: SPF STUD GRADE

2. 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:

INTERIOR NON-BEARING:

2x @ 24" O.C., U.N.O. 3. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR RETTER

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, 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 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 DCCUR OVER SUPPORTS.

14. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR

LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 15. 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

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 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. AND PURLIN BRACES RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES SHALL NOT BEAR ON ANY CELING 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 RAFTÉR 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 234 FLAT FASTENED TO EACH JOIST WITH
(2) 12d MAILS, FASTEN STRONGBACK TO 254 FLAT WITH 12d NAILS & 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 126 TOENAL

WOOD TRUSSES (FLOOR & ROOF):

1 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

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 THE TRUSSES

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 BOSL 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 T TRUSS DESIGNS, ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFER TO BOSI 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 ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (LE., T OR L BRACE, ETC.) IS REQUIRED.

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:

FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE

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 1/4" 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 FIFLD LINLESS OTHERWISE NOTED ON THE PLANS, SHEATHING SHALL 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 %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 5" 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 %" 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.

SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

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 (Fx) OF 50 KSI

LINIESS OTHERWISE NOTED

WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA 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.

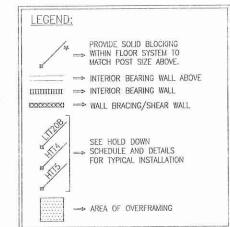
INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH, FASTEN PLATE TO BEAM W/ HILTI X-DNI 52 PB PINS AT 12" O.C. STAGGERED OR 2" DIAMETER BOLTS AT 24"

MECHANICAL FASTENERS:

ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED FOUNVALENT.

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 SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK	VENEER LINTEL S	SCHEDULE
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"x3½"x¼"	4"
UP TO 6'-3"	5"x3½"x5/6" L.L.V.	8"
UP TO 9'-6"	6"x3½"x5/6" L.L.V.	12"



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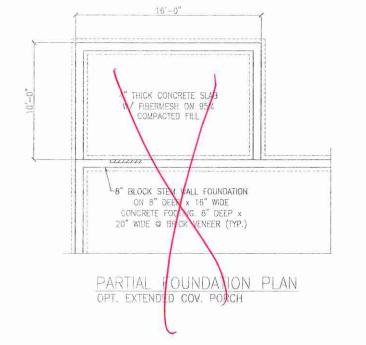
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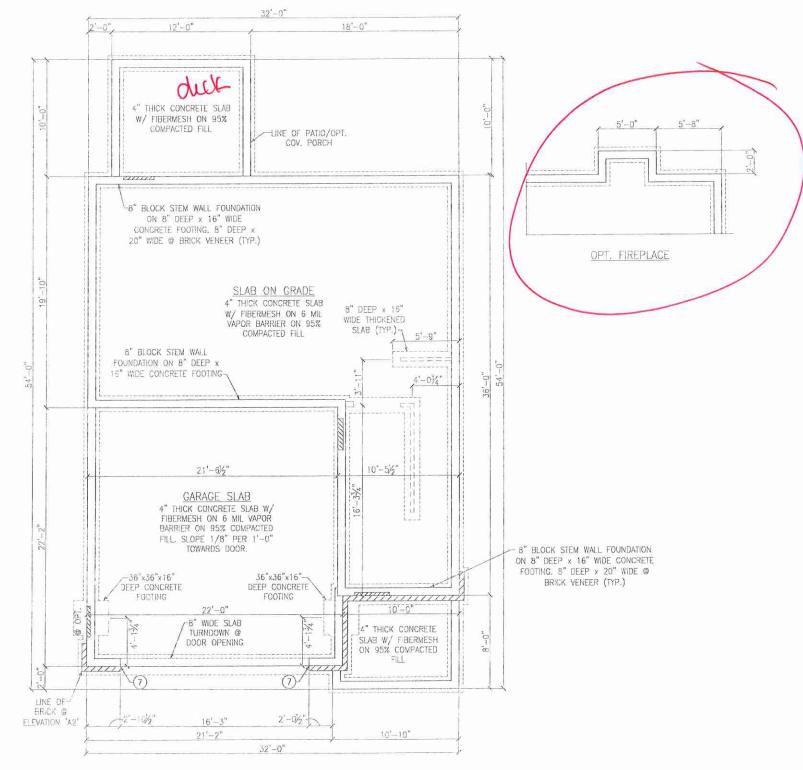
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Project #: 105-19000 Designed By: KRK

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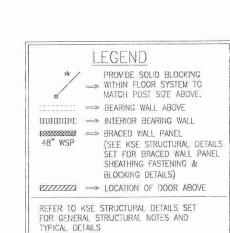


STEM WALL SLAB FOUNDATION PLAN

See elev. B

ELEVATIONS 'A1' & 'A2'





KEYNOTES:

7) REINFORCE 8" CMU WALL AND FOOTING UNDER PORTAL FRAME PER DETAIL A OR B/SD-4.





Plans Foundation Pla 'A2' & Option - LH

Stem Wall Slab For Elevations 'A1', 'A2 Kenzie Model — LH Up to 130 M.P.H. Carolina Division Project #: 105-19004 Designed By: KRK Checked By: Checked By: Issue Data: 6/29/19 Re-Issue: 4/30/20 Scole: 1/8"=1"-0" ◎ 11×17 1/4"=1"-0" ◎ 22×34



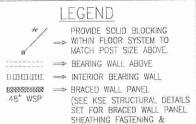


lans 'C2'

X

Foundation 'B2', 'C1' & LH

 \Box



BLOCKING DETAILS) VZZZZZZZ

LOCATION OF DOOR ABOVE

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

KEYNOTES:

−ā" BLOCK STEM WALL FOUNDATION ON 8" DEEP x 16" WIDE CONCRETE FOOTING

8" BLOCK STEM WALL FOUNDATION

ON 8" DEEP x 16" WIDE CONCRETE

FOOTING, 8" DEEP x 20" WIDE @

BRICK VENEER (TYP.)

36"x36"x16"-DEEP CONCRETE FOOTING

7

32'-0'

STEM WALL SLAB FOUNDATION PLAN ELEVATIONS 'B1' & 'B2'

1'-6½"

WILLIAM

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

11'-4"

7344Banana

10'-0"

4" THICK CONCRETE

SLAB W/ FIBERMESH ON 95% COMPACTED

FILL

10'-8"

Jerres J

2'-21/2"-

STEM WALL SLAB FOUNDATION PLAN ELEVATIONS 'C1' & 'V2'

_36"x36"x16" DEEP CONCRETE

FOOTING

2'-101/2"

2'-101/2"

LINE OF BRICK @

ELEVATION 'C2'

22'-0" /8" WIDE SLAB TURNDOWN @ DOOR OPENING

16'-3"

-8" WIDE SLAB

TURNDOWN @ DOOR OPENING

21'-4"

20'-8"

(7) REINFORCE 8" CMU WALL AND FOOTING UNDER PORTAL FRAME PER DETAIL A OR B/SD-4.



Stem Wall Slab For Elevations 'B1', 'B2 Kenzie Model — LH Up to 130 M.P.H. Carolina Division Project #: 105-19004 Designed By: KRK Checked By: Issue Date: 8/29/19
Re-Issue: 4/30/20
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22y34



Plans Options

LEGEND PROVIDE SOLID BLOCKING
WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. ⇒ BEARING WALL ABOVE HIDHHILL - INTERIOR BEARING WALL ⇒ BRACED WALL PANEL 48" WSP (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) NH => NO HEADER REQUIRED

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:

-2x6 RAFTERS

(2)2x6

@ 24" O.C.

CS-WSP

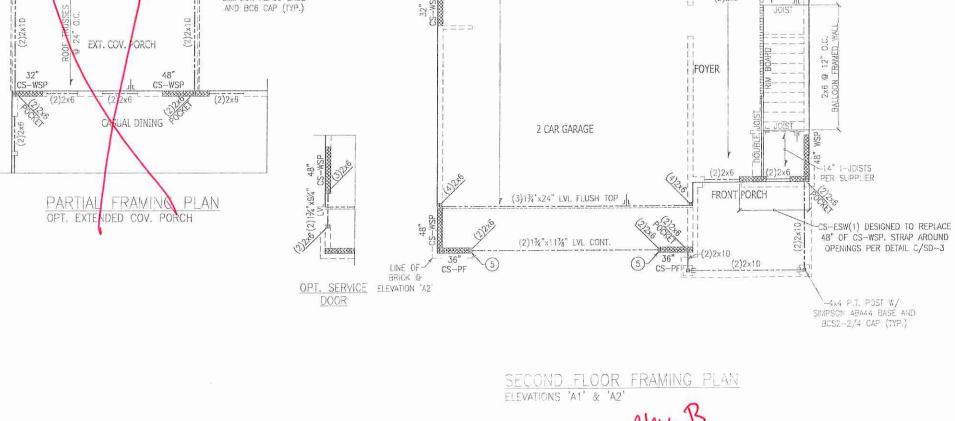
(2)2x6

OPT. FIREPLACE

(2)2x6

- (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,





32" CS-WSP

(2)2x6

CASUAL DINING

KITCHEN

-մարժմուտ առամապատան առաաառան ա)առատա

4 (3)2×10

32"

CS-WSP

(2)2x6

COV/PORCH

CASOAL DINING

PARTIAL FRAMING PLAN OPT. COV. PORCH

(3)1¾"x9¼" LVL

-6x6 P.T. POST W/ SIMPSON ABA66 BASE AND BCS2-3/6 CAP (TYP.)

(2)2x6

-6x6 P.T. POST W/ SIMPSON ABA66 BASE



CS-WSP RIM BOARD

FAMILY ROOM

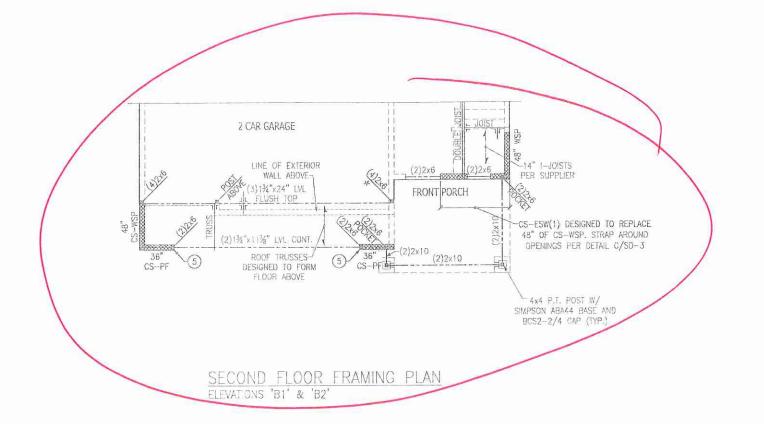
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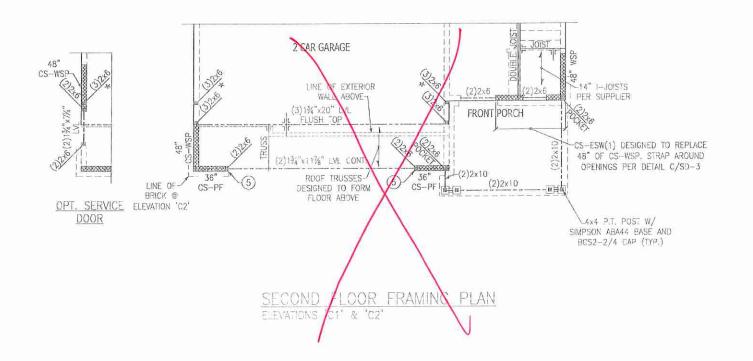
Project #: 105-19004

Designed By: KRK Checked By: Issue Date: 8/29/19 Re-Issue: 4/30/20 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Second Floor Framing P Elevations 'A1', 'A2' & C Kenzie Model — LH Up to 130 M.P.H.









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

⇒ BEARING WALL ABOVE ПШШШІ ⇒ INTERIOR BEARING WALL

48" WSP SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL

SHEATHING FASTENING & BLOCKING DETAILS) NH --- NO HEADER REQUIRED

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:

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



Second Floor Framing Plans

Elevations 'B1', 'B2', 'C1' & '
Kenzie Model — LH

Garolina Division Project #: 105-19004

,C2,

Designed By: KRK Checked By:

Issue Date: 8/29/19 Re-Issue: 4/30/20 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34









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

⇒ BEARING WALL ABOVE

HIIIIIIII ⇒ INTERIOR BEARING WALL 48" WSP

BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING &

BLOCKING DETAILS) NH --> NO HEADER REQUIRED

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

PLAN DESIGNED WITH 8' WALL PLATES

KEYNOTES:

- 0 8'x:2' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES @ 24" O.C. (TYP.)



, B2 Roof Framing Plan Elevations 'B1' & 'B2 Kenzie Model — LH Up to 130 M.P.H. Carolina Division Project #: 105-19004 Dasigned By: KRK Checked By:

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Issue Date: 8/29/19
Re-Issue: 4/30/20
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

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

AT ALL OTHER

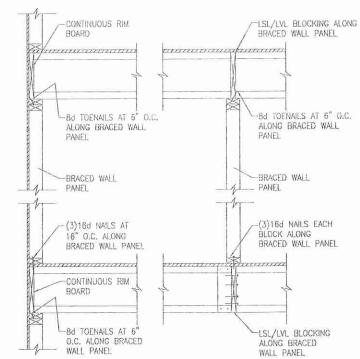
MEMBERS

16d NAIL

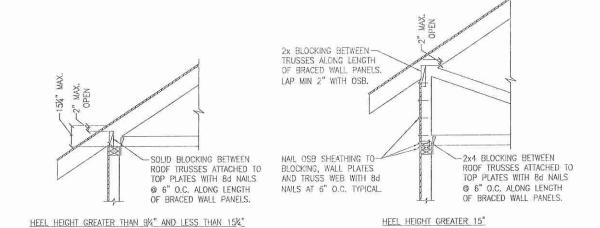
OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

-GYPSUM BOARD



WALL PANEL



D TYPICAL EXTERIOR CORNER WALL FRAMING

EXTERIOR

SHEATHING

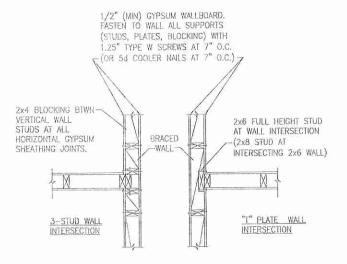
GYPSUM BOARD-

EXTERIOR SHEATHING-

16d NAII -

@ 12" O.C.

E ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS



BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD.

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

BRACED WALL INTERSECTIONS MAY



arolina

Up to North



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SD-

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 2x FULL HEIGHT
STUD W/ 16d
NAILS @ 6" O.C.

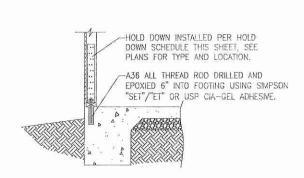
(2)2x FULL HEIGHT
STUD W/ 10d NAILS
0 6" O.C. EACH PLY

SHEAR WALL, SEE
SCHEDULE AND
PLANS FOR LOCATION

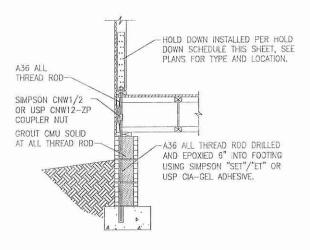
HOLD DOWN INSTALLED PER HOLD
DOWN SCHEDULE THIS SHEET, SEE
PLANS FOR TYPE AND LOCATION.

(A) TYPICAL HOLD DOWN DETAIL

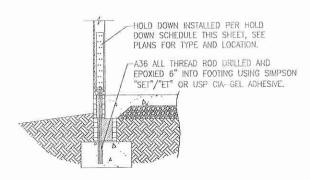
B TYPICAL HOLD DOWN DETAIL



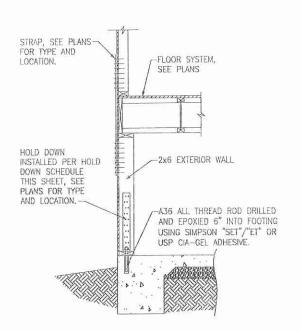
DHOLD DOWN AT MONOLITHIC SLAB FOUNDATION



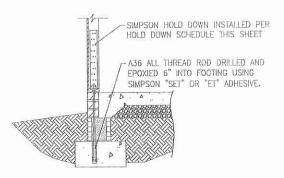
E HOLD DOWN AT CRAWL SPACE FOUNDATION



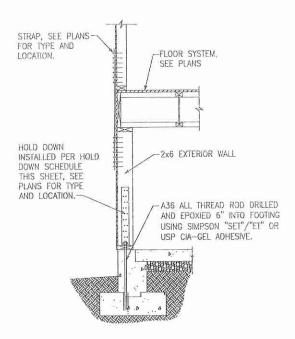
(C)HOLD DOWN AT STEMWALL SLAB FOUNDATION



F HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



(C)HOLD DOWN AT STEMWALL SLAB



G HOLD DOWN AT BASEMENT FOUNDATION

	HOL	DOWN SCHE	EDULE
HOLD DOWN		ALL THREAD ROD	FASTENERS
SIMPSON	USP	ALL THILLAD ROD	LASTERLING
LTT20B	LTS20B	½" DIA.	(10)10d NAILS
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS
HTT5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS



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HOMES

Up to 130 M.P.H. North Carolina

Project #: 105-19000

Designed By: KRK

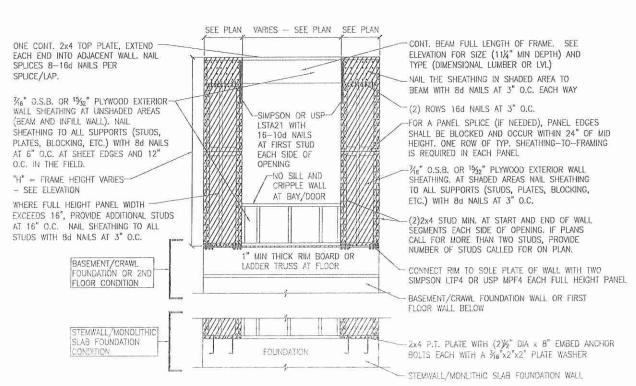
Chacked By:
Issue Date: 1/1/19

Re-Issue:

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

SD-2

ONE BRACED WALL SEGMENT

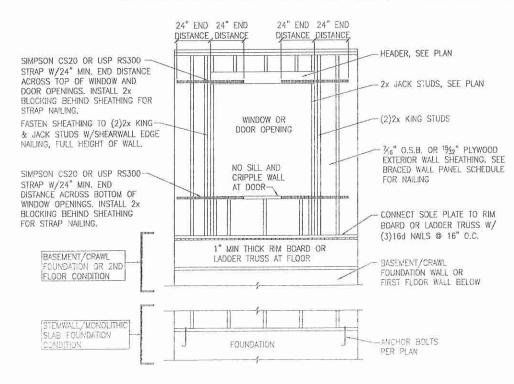


B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION TWO BRACED WALL SEGMENTS

	BRACED WALL	PANEL AN	D ENGINEERED SHEAR WALL SCHEDULE
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITIENT 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/Z" 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 GALY. 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 SUPPORT
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 1/6" 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.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



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





ed Wall Notes & Details

Braced Wall Not

Project #: 105-19000
Designed By: KRK

M.P.H.

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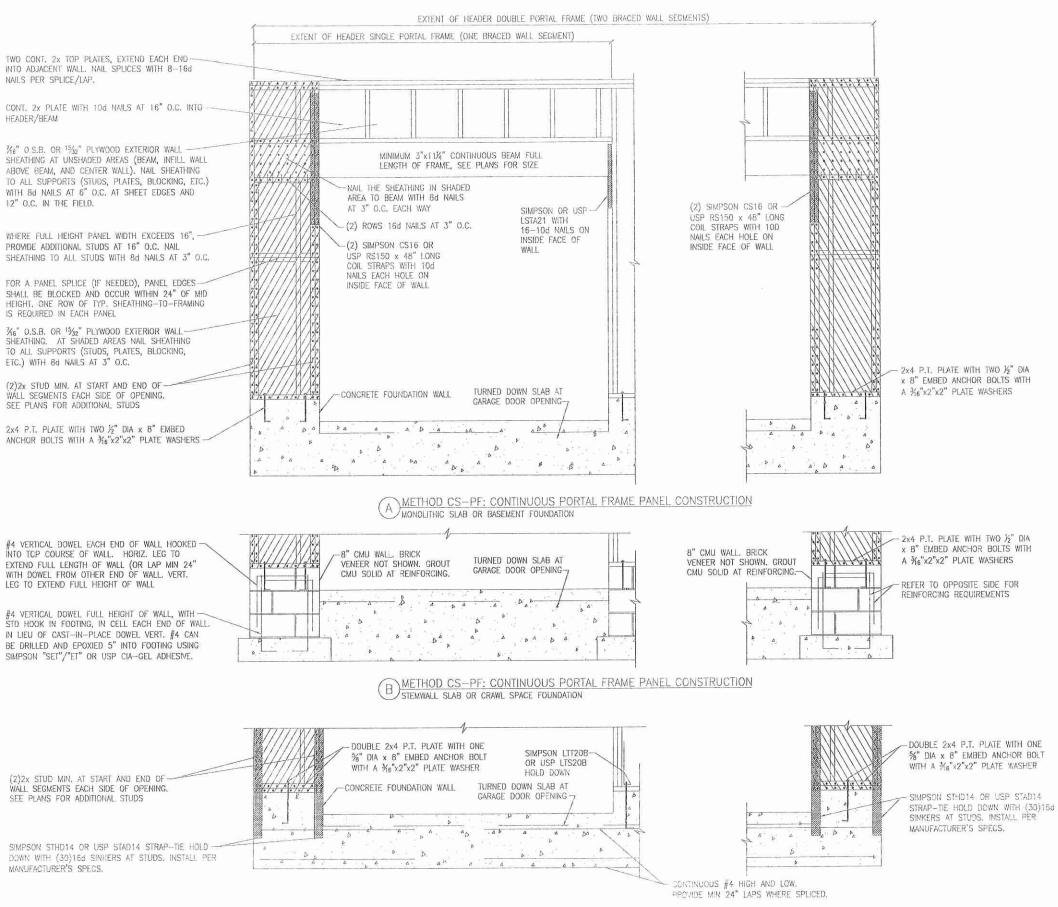
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Checked By: Issue Date: 1/1/19

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

SD-3







Project #: 105-19000

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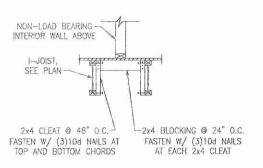
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Designed By: KRK Checked By

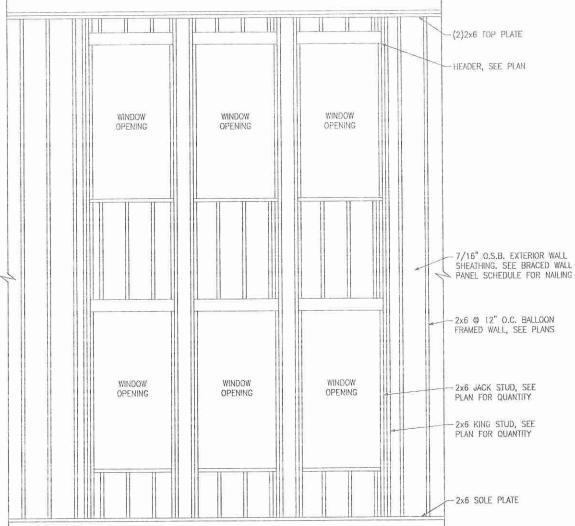
Issue Date: 1/1/19

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

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



O I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS





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

lasue Date: 1/1/19

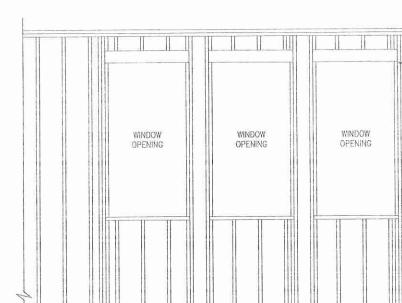
Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

130 M.P.H. Carolina

Up to North

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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 SDSKx3½" OR USP WS35 SCREWS @ 16" O.C. 2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS -2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

C EYEBROW ROOF DETAIL

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COM
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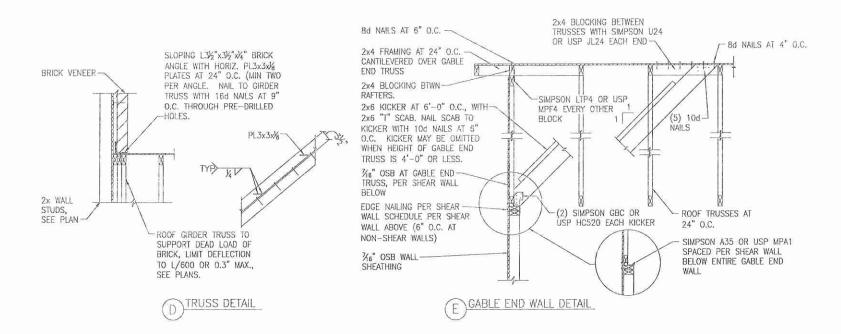
Up to North

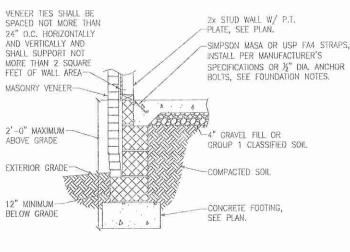
30 M.P. Carolina

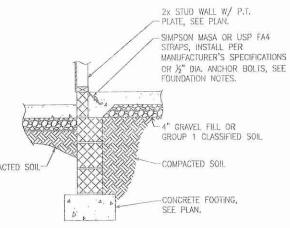
Project #: 105-19000 Designed By: KRK

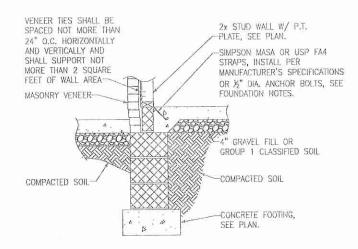
Checked By: Issue Date: 1/1/19 Re-Issue:

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





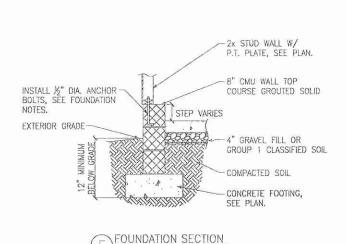




FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY VENEER

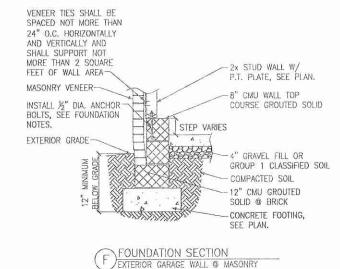
FOUNDATION SECTION B) EXTERIOR WALL @ MASONRY

FOUNDATION SECTION EXTERIOR WALL AT PORCH

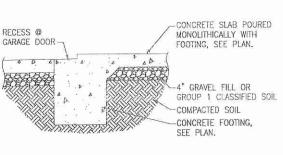


EXTERIOR GARAGE WALL

FOUNDATION SECTION

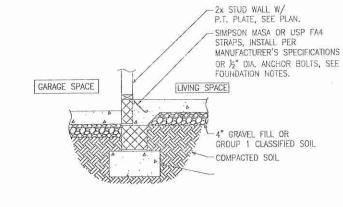


VENEER

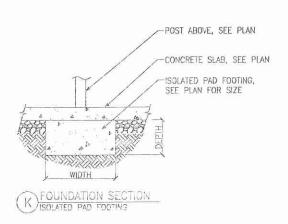




FOUNDATION SECTION



-2x STUD WALL W/ P.T. PLATE, SEE PLAN. -INSTALL ½" DIA. ANCHOR BOLTS, SEE FOUNDATION NOTES. CONCRETE SLAB POURED MONOLITHICALLY WITH FOOTING, SEE PLAN. -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL THICKENED SLAB. SEE PLAN. WIDTH (J) FOUNDATION SECTION
THICKENED SLAB





o. arolina 30 () \$ £ 9 S Project #: 105~19000 Designed By: KRK Checked By Issue Date: 1/1/19 Re-Issue: Scole: 1/8"=1'-0" @ 11x17

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Foundation

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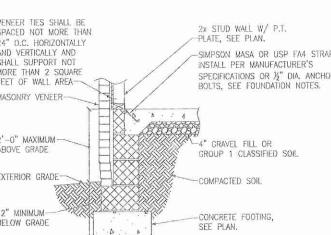
S

Wall

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S

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



COMPACTED SOIL

RECESS @ GARAGE DOOR

SARAGE DOOR