# **KENZIE H&H HOMES - GARAGE RIGHT**

## **PLAN REVISIONS**

07-10-19 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 H4H STANDARDS ADDED 2x6 WALL FLOOR PLANS 4 ELECTRICAL PLANS CHANGED ELEVATION 'A' 1 'C' TO 'A-I' 1 'C-I' ADDED ELEVATIONS 'A-2' 1 'C-2'
CHANGED ELEVATION 'B' TO ELEV. 'B-2' AND ADDED NEW ELEV. 'B-I' BROKE OUT OPTIONS FROM THE FLOOR PLANS AND MADE A SEPARATE PAGE FOR

| ELEVATION ".      | Α"        |
|-------------------|-----------|
| MAIN FLOOR        | 804 S.F.  |
| UPPER FLOOR       | 1154 S.F. |
| TOTAL LIVING      | 1958 SF.  |
| GARAGE            | 48Ø S.F.  |
| FRONT PORCH       | 82 S.F.   |
| PATIO             | 120 S.F.  |
| TOTAL SQ FT       | 2640 SF   |
| OPT, COV, PORCH   | 12Ø 5.F.  |
| OPT, EXT. PORCH   | 160 S.F.  |
| OPT. I CAR GARAGE | 24Ø 5.F.  |

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

| ELEVATION "       | C"   |      |
|-------------------|------|------|
| MAIN FLOOR        | 804  | S.F. |
| UPPER FLOOR       | שרוו | SF.  |
| TOTAL LIVING      | 1974 | SF.  |
| GARAGE            | 480  | S.F. |
| FRONT PORCH       | 81   | SF.  |
| PATIO             | 120  | SF   |
| TOTAL SQ. FT.     | 2655 | SF.  |
| OPT. COV. PORCH   | 120  | 5.F. |
| OPT, EXT, PORCH   | 160  | S.F. |
| OPT. I CAR GARAGE | 240  | SF.  |

ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VEREY ALL NOTES, DYENGIONS, AND ADHERBICE TO APPLICABLE BUILDING CODES PRIOR TO COTTENCEPHOI OF ANY CONSTRUCTION.

ANY DISCREPANCY OF ERROR INVIETS, DIPENSIONS, OR ADHERBICE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COTTENCEPHOR OF ANY CONSTRUCTION.

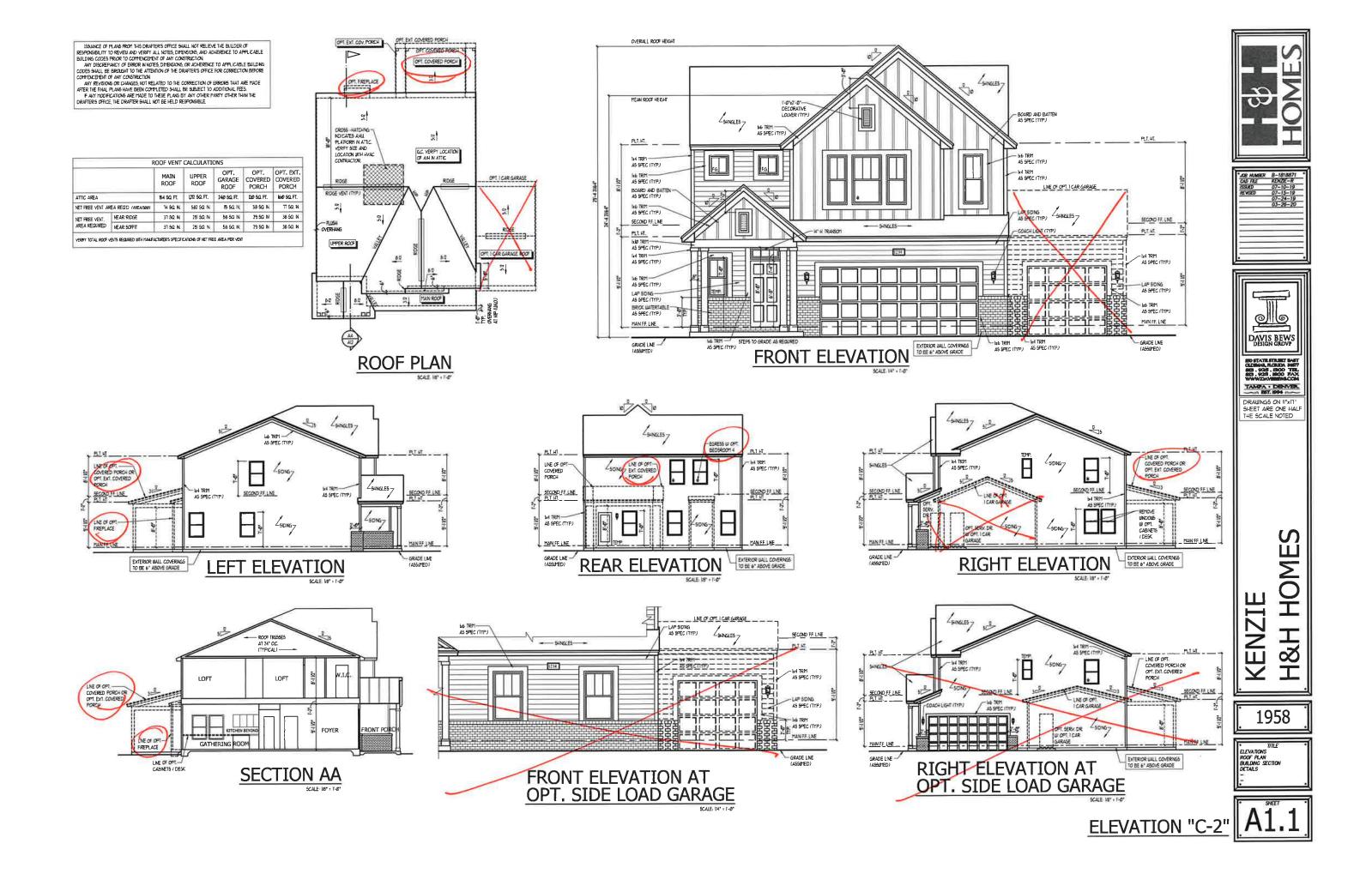
ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE DEED COTTENED SHALL BE SIDERCIT TO ADDITIONAL FIELS.

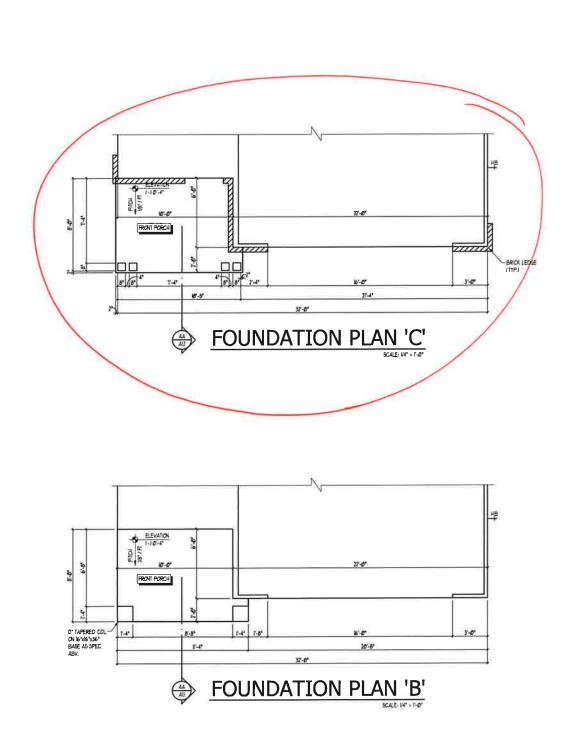
F. ANY HOUTPORTIONS ARE MUETED TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

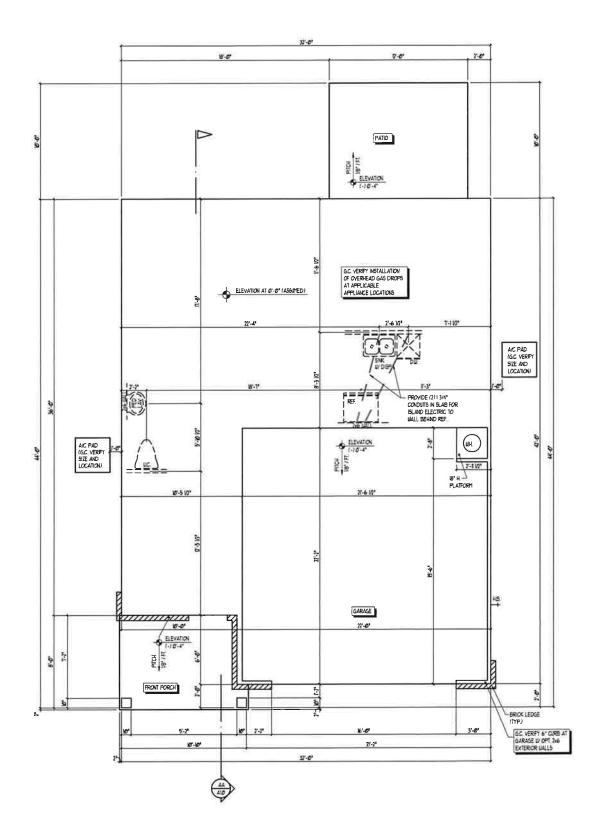
KENZIE H&H 1958

DAVIS BEWS

SO STATE STREET BAST CLUBMA, BORDA SMET 833 - 925 - 1900 TEL 823 - 925 - 1900 TAX WWW.DAVIDENECOM













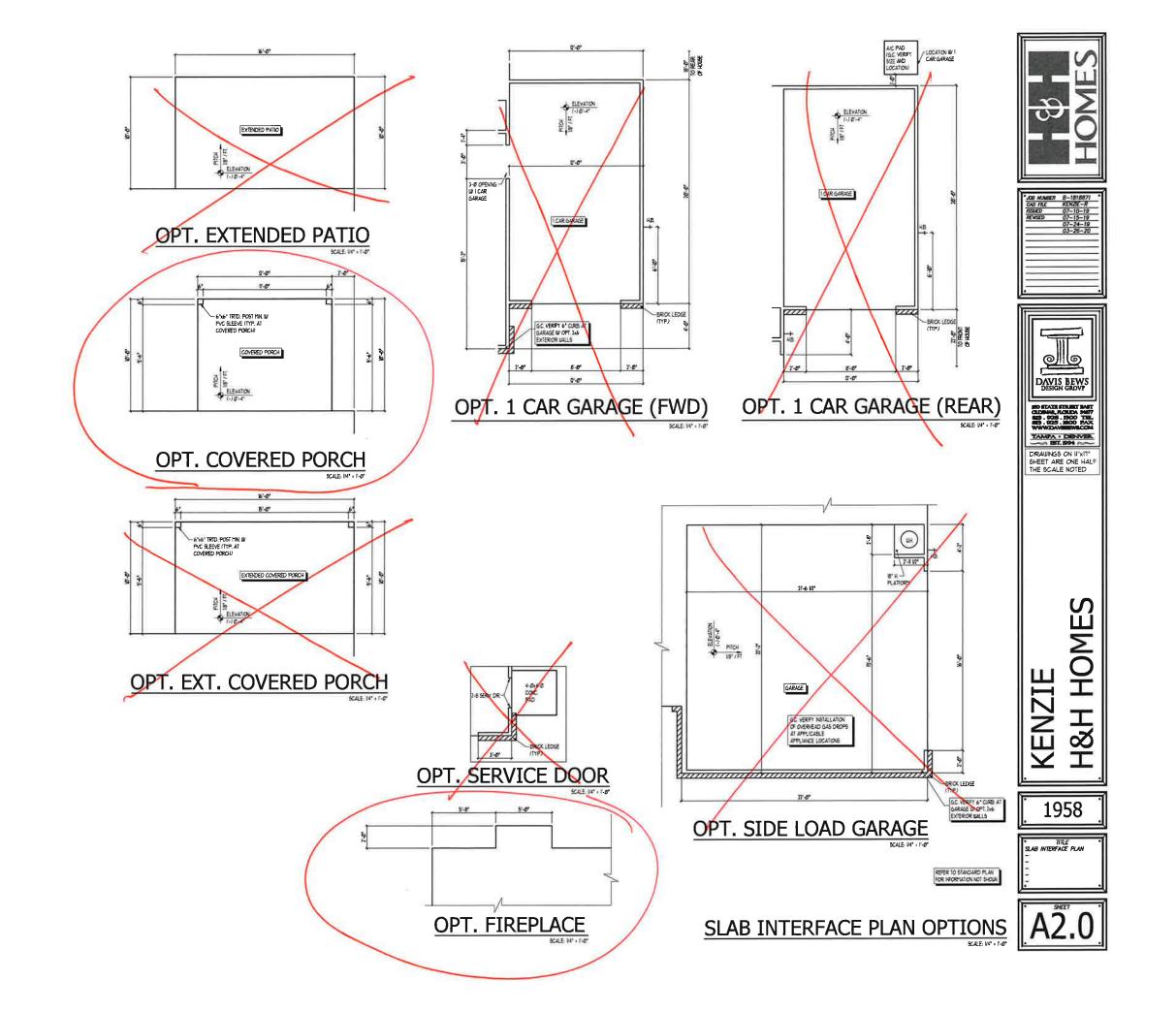
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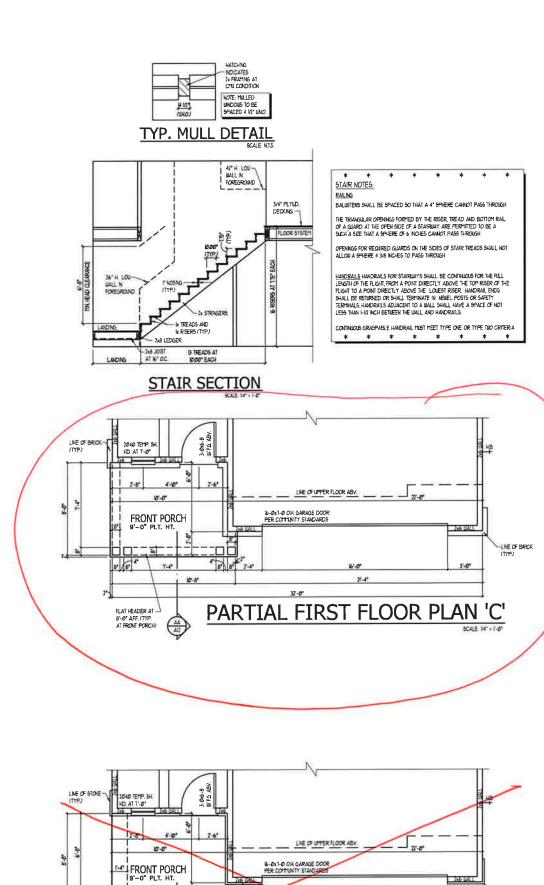
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SLAB INTERFACE PLAN SCREVE . T. OF

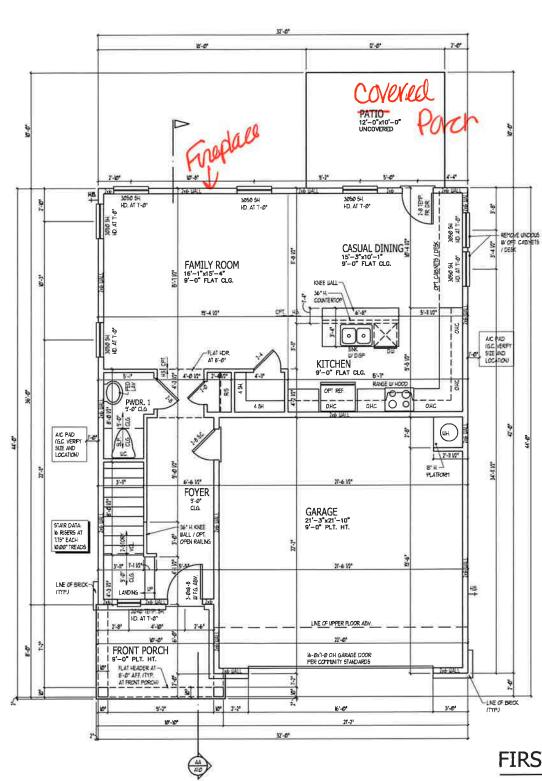
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PARTIAL FIRST FLOOR PLAN 'B'

O' TAPERED COL-ON 16'X16'X36' BASE AS SPEC (SEE ELEVATION)









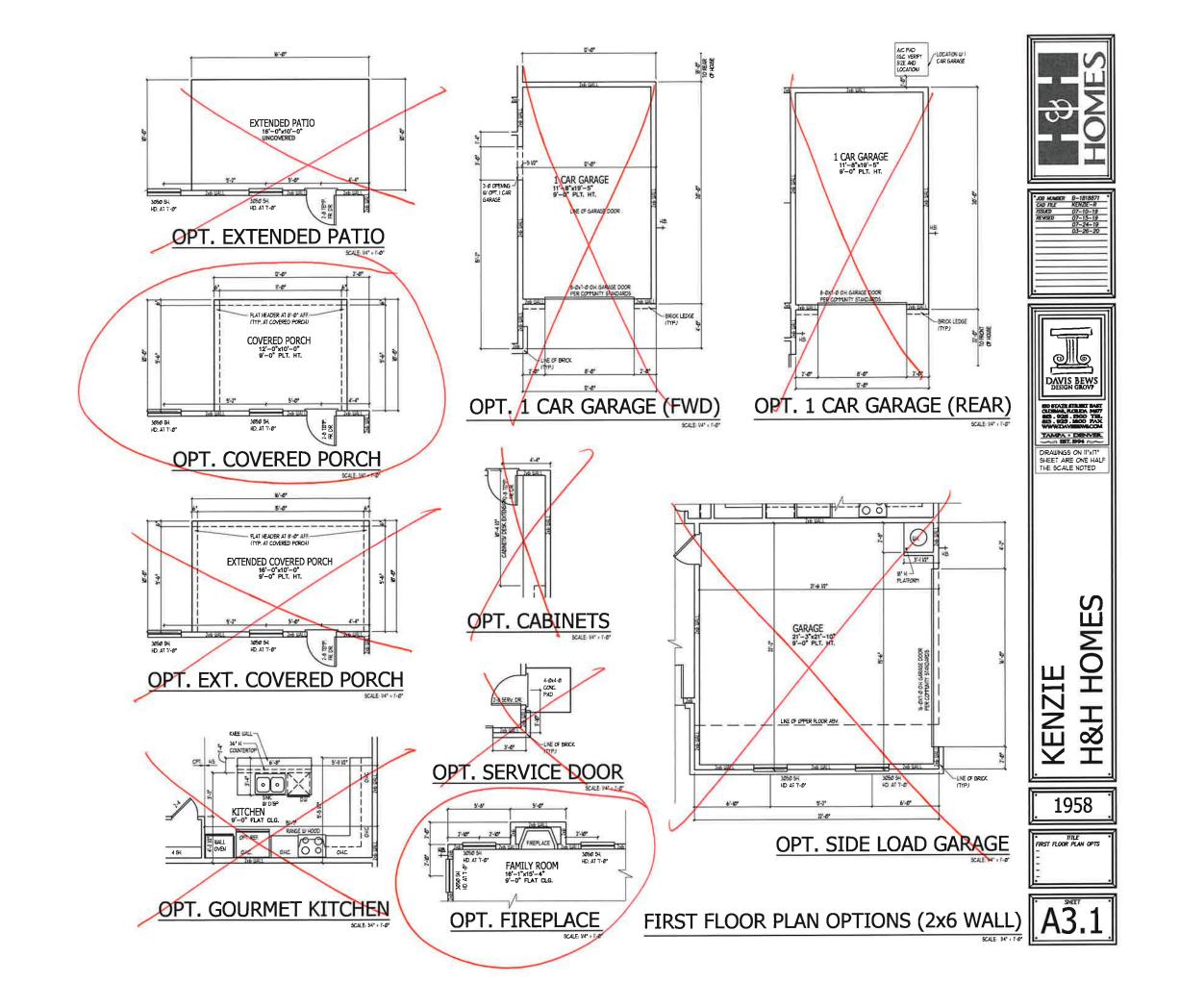
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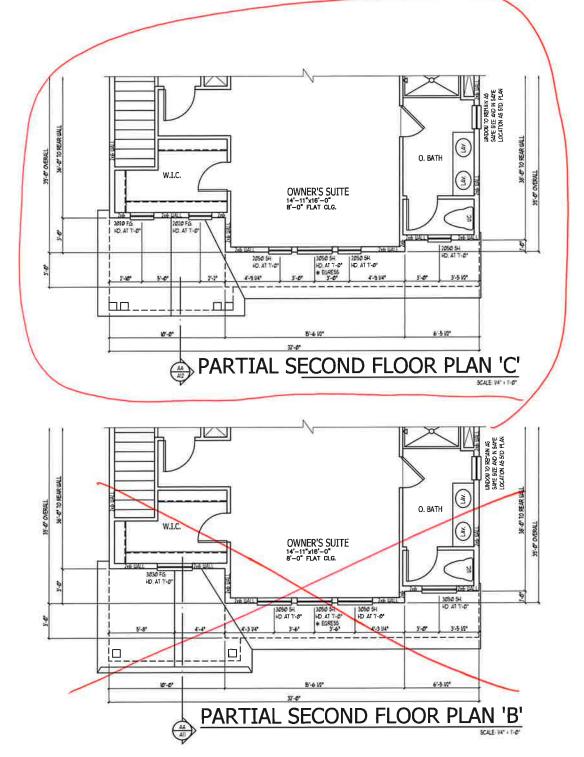
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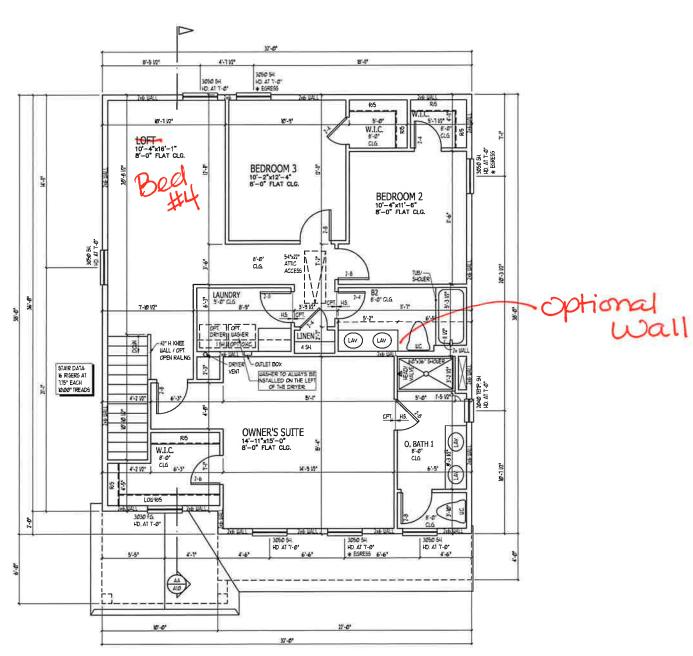


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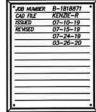
FIRST FLOOR PLAN (2x6 WALL)













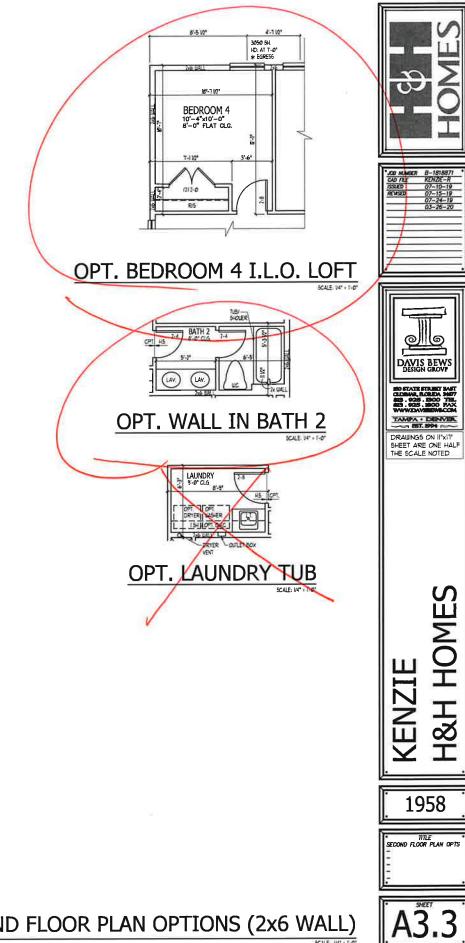
KENZIE H&H HOMES

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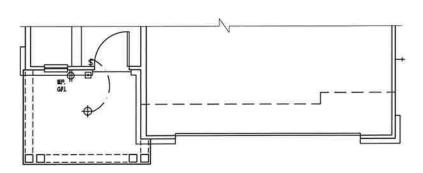


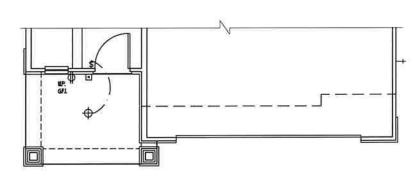
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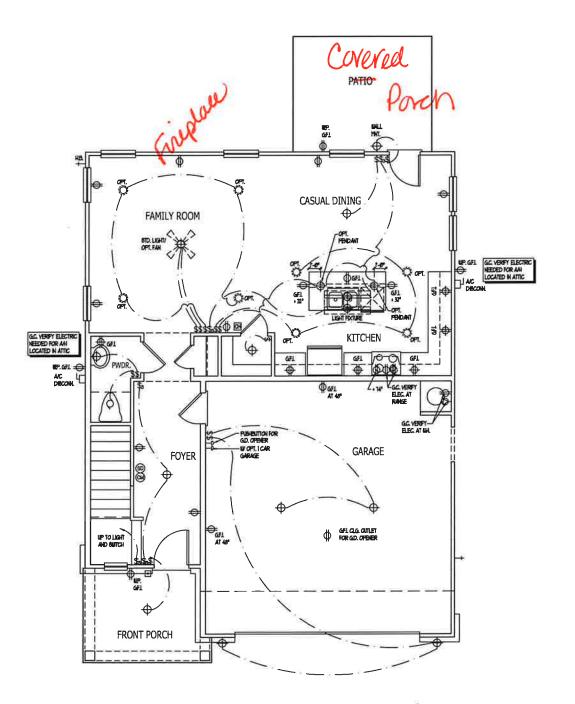
SECOND FLOOR PLAN (2x6 WALL)



SECOND FLOOR PLAN OPTIONS (2x6 WALL)







## ELECTRICAL KEY

- DUPLEX CONVENIENCE CUTLET DUPLEX CUTLET ABOVE COUNTER
- EATHERFROOF DUFLEX CUTLET

- HALF-BATTCHED DUFLEX OUTLET
- HO SPECIAL PURPOSE CUTLET
- DUPLEX OUTLET N. FLOOR
- 220 VOLT OUTLET MALL BUTTCH
- \$3 THREE-MAY BUTTCH \$4 FOUR-MAY CONTOH \$D DIMER BATICAL
- CELLING HOLNTED INCANDESCENT LIGHT FIXTURE
- WALL HOWITED NICANDESCENT LIGHT FIXTURE
- LIGHT FIXTURE WITH FULL CHAIN
- TRACK LIGHT

  FLUCKERCENT LIGHT FIXTURE
- EXHAUST FANALIGHT COMBINATION
- ELECTRIC DOOR OPERATOR (OPTIONAL)
- DE CHINES (OPTIONAL)
- PLEMENTION BUTTON (OPTIONAL)
- CARBON HONOXIDE DETECTOR
- (S) CHOICE DETECTOR SID SHORE / CAUSIAN HOND, COMBO DETECTOR

  I TELEPHONE (OPTIONAL)
- TELEVISION (OPTIONAL) THERMOSTAT
- ELECTRIC HETER
- ELECTRIC PANEL
- DISCONECT SHITCH
- ⊗ 6FEAKER (OPTIONAL)
- ROUGH-IN FOR OPT, CEILING FAN

#### NOTES:

3. ALL BYOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SCURCE AND SHALL BE EQUIPTED WITH A MONTORED BATTERY BACKUP, FROVIDE AND INSTALL LOCALLY CERTIFIED BYOKE DETECTORS.

4. ALL BA AND 26A RECEPTACLES IN GLEEPING ROOTS, FAVILY ROOTS, DANING ROOTS, LIMIG ROOTS, PARLORS, LIERARES, DESI, GIARROYS, RECREATION ROOTS CORETS, MULLIVA, PAR OFFILME AREAS MELL, REGIME A COPENSATION THE AFC DEVICE AND TAPPER PROOF RECEPTACLES PER NEC. 2011 406/11 AND 406/13

5. ALL BA AND 26A 100Y RECEPTAGLES LOCATED IN THE GARAGE AND LITLITY ROOMS SHALL BE GEGL PROTECTED (GFL).

6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENRINE THAT ALL ELECTRICIAL BORK IS IN FILL COMPLIANCE WITH NEFA 10, NEC. 2011, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EVERY BILLING HAVNIS A FOOGL FIEL-BURNING HEATER OR APPLIANCE, FREPLACE, OR AN ATLACKED GARAGE BHALL HAVE AN OPERATIONAL CARBON MONORED DETECTOR NOTALLED WITHIN BY FEET OF EACH ROOM WIED FOR BLEFFING FREFORES.

A ALAPTO SHALL RECEIVE THEIR PROMOT POWER FROM THE BUILDING WENG WENG BLICH WENG IS GERMED FROM THE LOCAL POWER WILLIT, GUCH ALAPTO SHALL HAVE BATTEST BALLOT COMPANION SOMECAMEND NIXONO EL ALAPTO SHALL SE LISTED OR LAMBLED BY A NATIONALLY RECOGNIZED TESTING LAMORATORY.



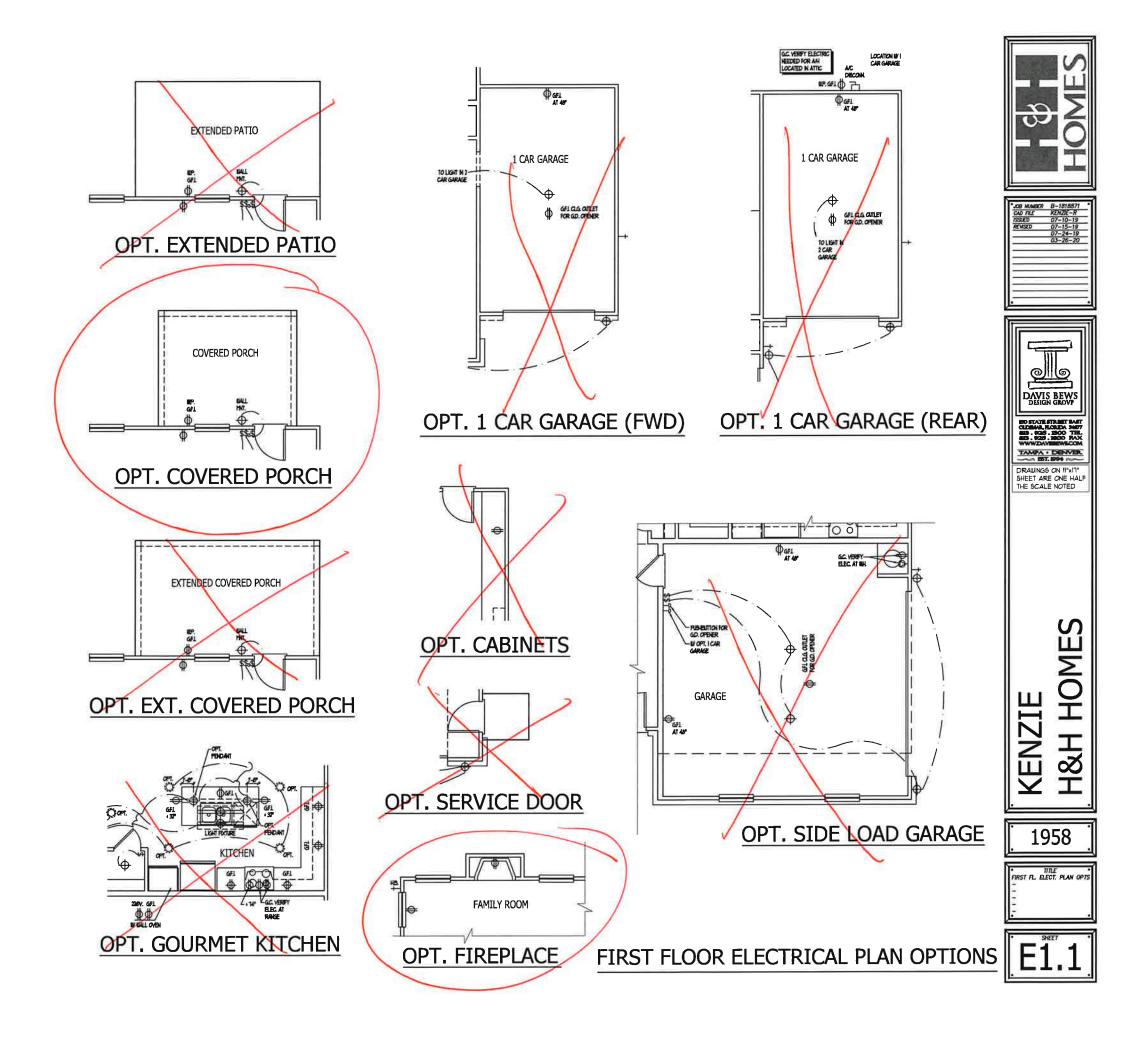


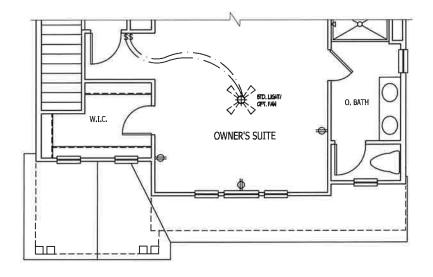


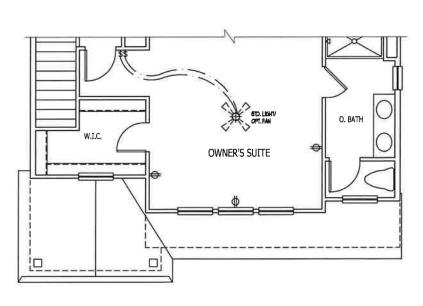
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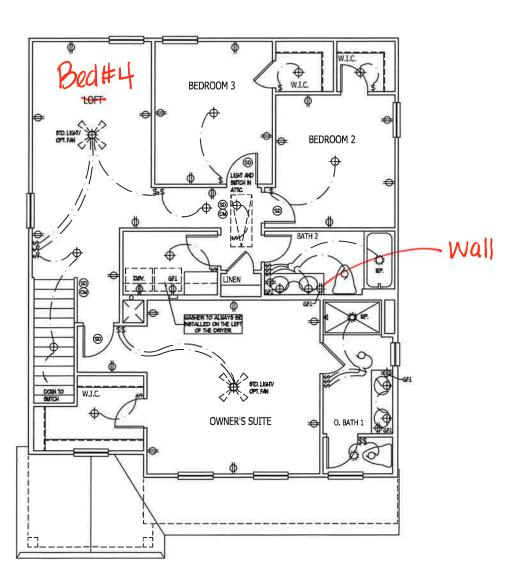
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FIRST FLOOR ELECTRICAL PLAN









## ELECTRICAL KEY

- PUPLEX COMPNENCE CUTLET
- DUPLEX CUILET ABOVE COUNTE
- EATHERPROOF DUPLEX OUTLET GROUND FAILT INTERRUPTER DUPLEX CUTLET
- HALF-BUTTONED CUPLEX CUTTLET
- SPECIAL PURPOSE CUTLET
- DUPLEX CUTLET IN FLOOR
- ZZE VOLT CUTLET
- MALL BUTTON THREE-HAY BUTTON
- CELING HOLNTED INCANDESCENT LIGHT FIXTURE
- 24 FOR MY MIN.

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  CELNS HOW MALL HOUNTED INCANDESCENT LIGHT FOXURE RECEMBED INCANDERCENT LIGHT FIXTURE
  - LIGHT FIXTURE UTH FULL CHAN
- TRACK LIGHT

  FLUCKERCENT LIGHT FIXTURE
- EXCHAUST FAN
- ENAUST FANALISHT COMBINATION
- ELECTRIC DOOR OFFERATOR CHIES (OPTIONAL)
- PUBLICATION SUITCH (OPTIONAL)
- CARBON HONOXIDE DETECTOR
- SHOKE DETECTOR
- 1 CHARLE / CARBON HOND, COMBO DETECTOR
- TELEPHONE (OPTIONAL)
- ELECTRIC METER
- ELECTRIC PANEL
- OPEAKER (OPTIONAL)
- THE ROUGH IN FOR OPT, CELLING FAN
- CELING HOUNTED INCURDENCENT LIGHT FIXTURE BY ROUGH IN FOR OPT, CELING FAN

#### NOTES:

1. PROVIDE AND INSTALL GROUND FALLT CROUT-INTERSPIERS (GFL) AS INDICATE ON PLANS OR AS TIERLING, 4 AND 5 BELOW INDICATES.

2 UNLESS OTHERWISE NOICHTED, NOTALL SUTCHES AND RECEPTACLES AT THE ROLLOWNS HEIGHTS ADDOR BRUSSED FLOOR GUTLETS.... IF TELEPHORE. I. OF (INLESS ABY COUNTERTOP) TELEPHORE. I. OF (INLESS ABY COUNTERTOP)

3. ALL BYCKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EASIFTED WITH A MONITORED BATTERY BACKEP, PROVIDE AND NOTALL LOCALLY CERTIFED STACKE DETECTORS.

4. ALL BA AND 26A RECEPTACLES IN BLEEPING ROOTS, FATLY ROOTS, DINNS ROOTS, LIMIS ROOTS, PARLORS, LERANDER, DEB, SARROATS, EGGEATION ROOTS, CLOSETS, NALLIMYS, AND ONLAR AREAS BLL. REGAINE A COMPINATION TYPE AFCL. DEVICE AND TAMPER PROCE RECEPTACLES FER INC. 201 4661 2AQ 14661.

5, ALL BA AND 26A ROY RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCL PROTECTED (GFL).

6. IT IS THE RESPONMENTALY OF THE LICENSED ELECTRICIAN TO ENGURE THAT ALL ELECTRICAL MORK IS IN FILL CONFILIANCE WITH IN FIG. 70%, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EVERY BILLONG MAYNG A FORMULTEL-TURNING HEATER OR APPLIANCE, PREPLACE, OR AN ATACHED GARAGE BUILL HAVE AN OPENTIONAL CARBON HOMODOE DETECTOR NOTALLED BITNAY BY TEST OF EACH ROOM USED FOR GLEEP PURPOSEA.

8. ALAPIS SHALL RECEIVE THER PROTHEY POWER PRICH THE BULDING WEND WEND THE LOCAL POWER WILLTY, SUCH ALAPIS SHALL HAVE BATTLEY BACKEY, COMBINITION STOKES CARBON HONOXOE ALAPIS SHALL BE LISTED OR LABELED BY A MAINAULT RESOURCED TERMS LABORATORY.







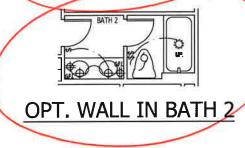
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• TITLE SECOND FLELECT. PLAN

SECOND FLOOR ELECTRICAL PLAN











KENZIE H&H HOMES

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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, 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

#### 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.\*.

#### 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<sub>B</sub>=2,325 PSI, F<sub>V</sub>=310 PSI, F<sub>C</sub>=900 PSI • LVL: E=2,000,000 PSI, F<sub>B</sub>=2,600 PSI, F<sub>V</sub>=285 PSI, F<sub>C</sub>=750 PSI
- PSL: E=2,100,000 PSI, F<sub>B</sub>=2,900 PSI, F<sub>V</sub>=290 PSI, F<sub>C</sub>=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301-1-3.



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



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

Kenzie Up to

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130 M.P.H. Model

Sheet

Cover

## 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.
- 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
- 5. 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 VERIEY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE FLEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED
- 10. PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL

## **FOUNDATIONS**

- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE:
- 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 LINBALANCED 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,  $\frac{1}{2}$ " DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1
- 7. 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.
- 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
- 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.
- CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
- 14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO RE 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), UNLESS OTHERWISE NOTED ON THE PLAN.
- CONCRÈTE 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"
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL FLEMENTS 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
- 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" LINLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT
- 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 LIFU 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, 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

#4 BARS - 30" LENGTH #5 RARS - 38" | FNGTH #6 BARS - 45" LENGTH

- WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL E FOUIVALENT 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 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

#### 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 3/4" 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.
- EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE HIRD OF THE PIERS, PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL
- 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.

## 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
- E=1,400,000 PSI,  $F_b=875$  PSI,  $F_v=135$  PSI
- 1.1. FRAMING: SPF #2. PLATES: SPF #2.
- 1.3. STUDS: SPE 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: 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 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 LINESS OTHERWISE NOTED, ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS
- 14 SOUD 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.
- ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE TH RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- 17. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOFS, 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 LIFT 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, FITHER 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.
- 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 DADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO
- 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.) S 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
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR
- 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 APA STANDARDS:
- ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION, EXTERIOR WALLS TO BE FULLY SHEATHED. USING 1/6" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES:
- ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH Bd NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIFLD UNLESS 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 3/6" 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:

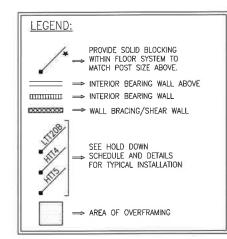
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A 1/4" 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 FOITIONS. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F,) 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 3½" 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 EQUIVALENT.
- 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.



| 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"x5/16" L.L.V | 12"         |



ENGINEERING
E, SUITE 201, QUAKERTOWN, PA 18951





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Carolina 30 10 North Project #: 105-19000

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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



LEDGE @ BRICK VENEER (TYP.) PARTIAL FOUNDATION PLAN OPT EXTENDED COV. PORCH LEGEND ⇒ BEARING WALL ABOVE

PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE ПШІШІІ ⇒ INTERIOR BEARING WALL ■ BRACED WALL PANEL 48" WSP (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

MONOLITHIC SLAB FOUNDATION PLAN ELEVATIONS 'A1' & 'A2'

2'-0/2"

-24"x42"x20" DEEP

MONOLITHIC CONCRETE FOOTING

32'-0"

SLAB ON GRADE

4" THICK CONCRETE SLAB

W/ FIBERMESH ON 6 MIL VAPOR BARRIER ON 95%

COMPACTED FILL

16" WIDE TURNDOWN-

TO 12" BELOW GRADE

@ OPT COV PORCH

LINE OF PATIO/OPT -COV PORCH

18'-0"

8" DEEP x 16"

WIDE THICKENED -SLAB (TYP.)

10'-51/2'

4" THICK CONCRETE

SLAB W/ FIBERMESH

ON 95% COMPACTED

FILL

16" WIDE TURNDOWN

TO 12" BELOW GRADE

4'-03/4"

OPT. FIREPLACE

16" WIDE x 20" DEEP = MONOLITHIC CONCRETE

FOOTING. 20" WIDE W/ 4"

LEDGE @ BRICK VENEER (TYP.)

12'-0"

4" THICK CONCRETE SLAB

W/ FIBERMESH ON 95% COMPACTED FILL

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING, 20" WIDE W/ 4"

LEDGE @ BRICK VENEER (TYP)

16" WIDE x 20" DEEP MONOLITHIC

-CONCRETE FOOTING

24"x42"x20" DEEP-

MONOLITHIC CONCRETE FOOTING

2'-10%

LINE OF

BRICK @

ELEVATION 'A2"

16" WIDE x 20" DEEP MONOLITHIC CONCRETE FOOTING W/ 6" STEMWALL @ GARAGE, 20" WIDE W/ 4" LEDGE @ BRICK VENEER (TYP.)

21'-51/2"

GARAGE SLAB 4" THICK CONCRETE SLAB W/ FIBERMESH ON 6 MIL VAPOR BARRIER ON 95% COMPACTED FILL SLOPE 1/8" PER 1'-0" TOWARDS DOOR

16" WIDE TURNDOWN-

TO 12" BELOW GRADE

16'-3"

21'-2"

16" WIDE TURNDOWN

TO 12" BELOW GRADE

4" THICK CONCRETE SLAB

W/ FIBERMESH ON 95% COMPACTED FILL

16" WIDE x 20" DEEP MONOLITHIC CONCRETE

FOOTING 20" WIDE W/ 4"

Monolithic Slab For Elevations 'A1', 'A2 Kenzie Model — RH 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" @ 22x34

Foundation Plans 'A2' & Option - RH







PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

ПШШПІ ⇒ INTERIOR BEARING WALL

16" WIDE x 20"-DEEP MONOLITHIC CONCRETE FOOTING

16" WIDE x 20" DEEP-MONOLITHIC CONCRETE FOOTING, 20" WIDE W/ 4" LEDGE @ BRICK VENEER (TYP.) 4" THICK CONCRETE SLAB W/ FIBERMESH ON 95% COMPACTED FILL

16" WIDE TURNDOWN

TO 12" BELOW GRADE

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

FILL

16" WIDE TURNDOWN

TO 12" BELOW GRADE

ELEVATIONS 'B1' & 'B2'

24"x42"x20" DEEP MONOLITHIC CONCRETE FOOTING

2'-10/2"

2'-10/2"

LINE OF

BRICK @

ELEVATION 'C2'

-24"x42"x20" DEEP MONOLITHIC CONCRETE FOOTING

-61/2"

2'-21/2"

32'-0"

MONOLITHIC SLAB FOUNDATION PLAN ELEVATIONS 'C1' & 'C2'

MONOLITHIC SLAB FOUNDATION PLAN

16" WIDE TURNDOWN-TO 12" BELOW GRADE

20'-8"

16" WIDE TURNDOWN-TO 12" BELOW GRADE

16'-3"

21'-4"

⇒ BRACED WALL PANEL (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



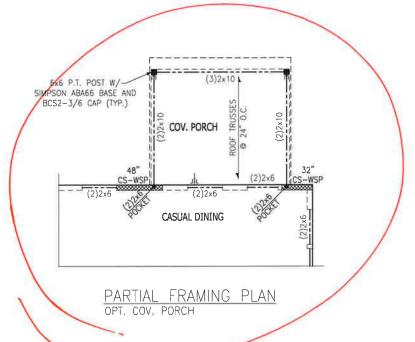
Monolithic Slab Fou Elevations 'B1', 'B2 Kenzie Model — RH Up to 130 M.P.H. Carolina Division

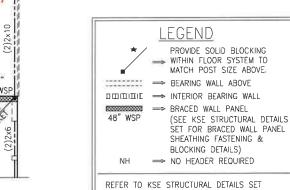
Project #: 105-19004 Designed By: KRK Checked By:

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

Slab Foundation Plans '', 'B2', 'C1' & 'C2' odel — RH

SECOND FLOOR FRAMING PLAN ELEVATIONS 'A1' & 'A2'





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

PLAN DESIGNED WITH 9' WALL PLATES

## **KEYNOTES:**

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







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

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

Checked By: Issue Date: 8/29/19

Project #: 105-19004 Designed By: KRK

Plans Options

Framing F 1', 'A2' & - RH

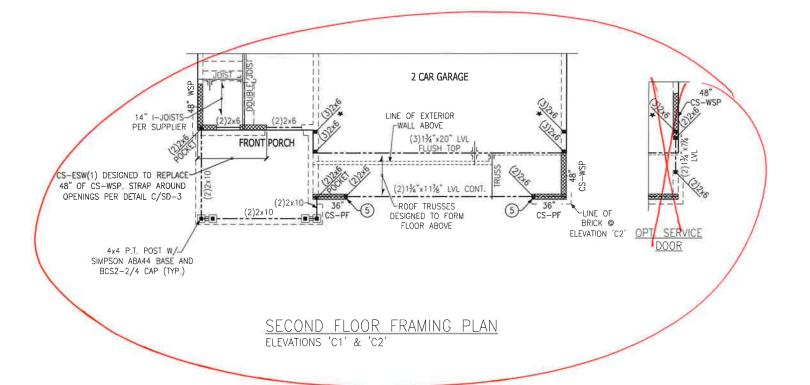
Re-Issue: 4/30/20 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Second Floor Fram Elevations 'A1', 'A2 Kenzie Model — RH Up to 130 M.P.H. Carolina Division



## 2 CAR GARAGE 14" I-JOISTS-PER SUPPLIER LINE OF EXTERIOR -WALL ABOVE (3)1¾"×24" LVL FLUSH TOP FRONT PORCH CS-ESW(1) DESIGNED TO REPLACE 48" OF CS-WSP STRAP AROUND (2)2×10 (2)2×10 OPENINGS PER DETAIL C/SD-3 PROOF TRUSSES DESIGNED TO FORM FLOOR ABOVE 36" CS-PF 4x4 P.T. POST W/ SIMPSON ABA44 BASE AND BCS2-2/4 CAP (TYP.)

## SECOND FLOOR FRAMING PLAN ELEVATIONS 'B1' & 'B2'





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

□□□□□□□ ⇒ INTERIOR BEARING WALL 48" WSP ⇒ BRACED WALL PANÉL (SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) ⇒ 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:

- 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



loor Framing Plans 'B1', 'B2', 'C1' & odel — RH 130 M.P.H. Second Floor Elevations 'B1' Kenzie Model 'Up to 130 M.F Project #: 105-19004 Designed By: KRK

Carolina Division

,C2,

Checked By: Issue Date: 8/29/19

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

S-2.1

ROOF FRAMING PLAN ELEVATIONS 'C1' & 'C2'

ROOF TRUSSES

DESIGNED TO FORM FLOOR BELOW

ROOF TRUSSES @ 24" O.C.

CS-WSP

-ROOF TRUSSES

@ 24" O.C.







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

☐☐☐☐☐☐ ⇒ INTERIOR BEARING WALL

48" WSP

BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING & BLOCKING DETAILS)

⇒ NO HEADER REQUIRED

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

PLAN DESIGNED WITH 8' WALL PLATES

## KEYNOTES:

- 8'x12' HVAC PLATFORM TRUSSES
  DESIGNED TO SUPPORT HVAC UNITS.
- (1) 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES @ 24" O.C. (TYP.)



Framing Plan itions 'C1' & 'C2' Roof Framing Plan Elevations 'C1' & ' Kenzie Model — RH Up to 130 M.P.H. Carolina Division

3 X T

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







Project #: 105-19000

Carolina

Checked By:

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

Up to North to Designed By: KRK

Wall

M.P.H. 130

Details

-2x4 BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS @ 6" O.C. ALONG LENGTH OF BRACED WALL PANELS.

BLOCKING, WALL PLATES AND TRUSS WEB WITH 8d NAILS AT 6" O.C. TYPICAL:

NAIL OSB SHEATHING TO-

SOLID BLOCKING BETWEEN

TOP PLATES WITH 8d NAILS

ROOF TRUSSES ATTACHED TO

@ 6" O.C. ALONG LENGTH

OF BRACED WALL PANELS. HEEL HEIGHT GREATER THAN 91/4" AND LESS THAN 151/4"

-BRACED WALL

8d TOENAILS AT 6" O.C. ALONG BRACED WALL PANFI

BRACED WALL PANEL

-CONTINUOUS RIM -LSL/LVL BLOCKING ALONG BOARD 

8d TOENAILS AT 6" O.C.

ALONG BRACED WALL

PANEL

-LSL/LVL BLOCKING AT 16" O.C. ALONG BRACED WALL PANEL

2x4 CLEAT WITH (2)10d NAILS AT CHORDS AND (4)10d NAILS AT BLOCKING (TYP.) -

-LSL/LVL BLOCKING

AT 16" O.C. ALONG

BRACED WALL PANEL

-BRACED WALL \_\_ PANEL -(3)16d NAILS AT

16" O.C. ALONG

BRACED WALL PANEL

-CONTINUOUS RIM BOARD

-8d TOENAILS AT 6' -LSL/LVL BLOCKING O.C. ALONG BRACED ALONG BRACED WALL PANEL WALL PANEL B TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PERPENDICULAR TO 1-JOISTS

> 2x BLOCKING BETWEEN-TRUSSES ALONG LENGTH OF BRACED WALL PANELS.

LAP MIN 2" WITH OSB.

BLOCK ALONG mmm

-(3)16d NAILS EACH BRACED WALL PANEL

MAX

HEEL HEIGHT GREATER 15" ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS

ONLY REQUIRED AT BRACED WALL PANELS

BRACED HORIZONTAL GYPSUM SHEATHING JOINTS. -(2x8 STUD AT -WALL-INTERSECTION

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

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

"T" PLATE WALL

(OR 5d COOLER NAILS AT 7" O.C.) 2x4 BLOCKING BTWN VERTICAL WALL STUDS AT ALL

2x6 FULL HEIGHT STUD AT WALL INTERSECTION INTERSECTING 2x6 WALL)

(STUDS, PLATES, BLOCKING) WITH 1.25" TYPE W SCREWS AT 7" O.C.

1/2" (MIN) GYPSUM WALLBOARD.

FÁSTEN TÓ WALL ALL SUPPORTS

ALONG BRACED WALL PANEL -BRACED WALL -BRACED WALL -BRACED WALL PANEL PANEL PANEL -(3)16d NAILS EACH -(3)16d NAILS AT -(3)16d NAILS AT BLOCK ALONG 16" O.C. ALONG 16" O.C. ALONG BRACED WALL PANEL BRACED WALL PANEL BRACED WALL PANEL

-LOCATE JOIST

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

BELOW WALL

A TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION BRACED WALL PANELS PARALLEL TO I-JOISTS

-8d TOENAILS AT 6" O.C. 8d TOENAILS AT 6" O.C. 3)8d TOENAILS ALONG BRACED WALL ALONG BRACED WALL EACH BLOCK

-CONTINUOUS RIM LOCATE JOIST

-CONTINUOUS RIM

EXTERIOR

SHEATHING -

(D) TYPICAL EXTERIOR CORNER WALL FRAMING

BOARD

GYPSUM BOARD

16d NAIL

EXTERIOR SHEATHING-

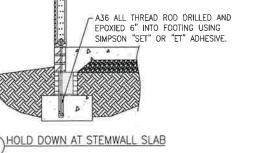
@ 12" O.C.

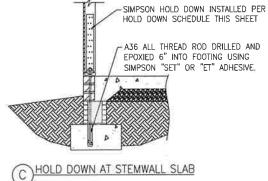
INSIDE CORNER PLAN VIEW



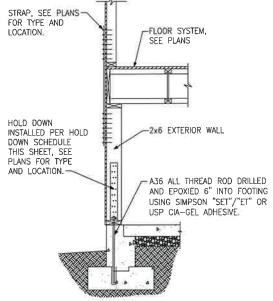








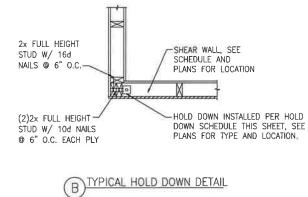




G HOLD DOWN AT BASEMENT FOUNDATION

|   | HOLD DOWN SCHEDULE |        |                |                        |
|---|--------------------|--------|----------------|------------------------|
| F | HOLD<br>SIMPSON    | DOWN   | ALL THREAD ROD | FASTENERS              |
| F |                    |        | 1/" DIA        | (10)104 NAILE          |
| L | LTT20B             | LTS20B | ½" DIA         | (10)10d NAILS          |
| L | HTT4               | HTT16  | %" DIA.        | (18)16dx2½" LONG NAILS |
|   | НТТ5               | HTT45  | 5⁄8" DIA.      | (26)16dx2½" LONG NAILS |





SHEAR WALL, SEE SCHEDULE AND

AND LOCATION.

PLANS FOR LOCATION

HOLD DOWN INSTALLED PER -

HOLD DOWN SCHEDULE THIS

SHEET, SEE PLANS FOR TYPE

(2) 2x FULL HEIGHT

STUD W/ 10d NAILS @ 6" O.C. EACH PLY

-2x FULL HEIGHT STUDS

-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

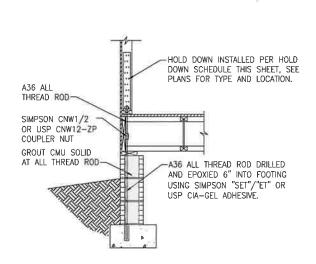
EPOXIED 6" INTO FOOTING USING SIMPSON

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

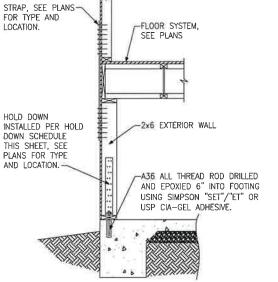
(A) TYPICAL HOLD DOWN DETAIL

W/ 16d NAILS @ 6" O.C.





(E)HOLD DOWN AT CRAWL SPACE FOUNDATION



-HOLD DOWN INSTALLED PER HOLD

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

A36 ALL THREAD ROD DRILLED AND

EPOXIED 6" INTO FOOTING USING SIMPSON

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

F HOLD DOWN AT BASEMENT FOUNDATION

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:

130 M.P.H.

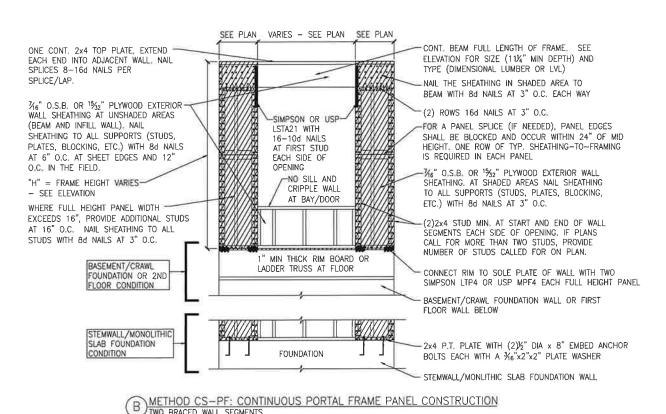
Carolina

Up to North to

Detail

Down

Hold

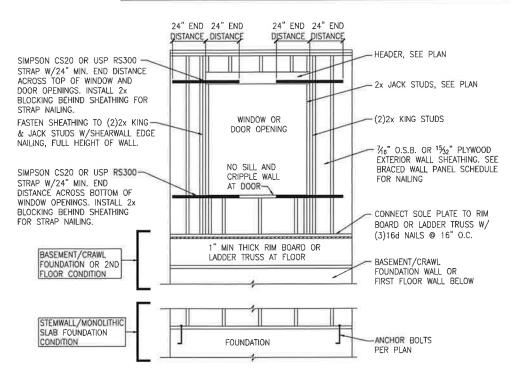


TWO BRACED WALL SEGMENTS

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

#### BRACED WALL PANEL NOTES

- 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.
- 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



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





 $\approx$ 2 Wall ā

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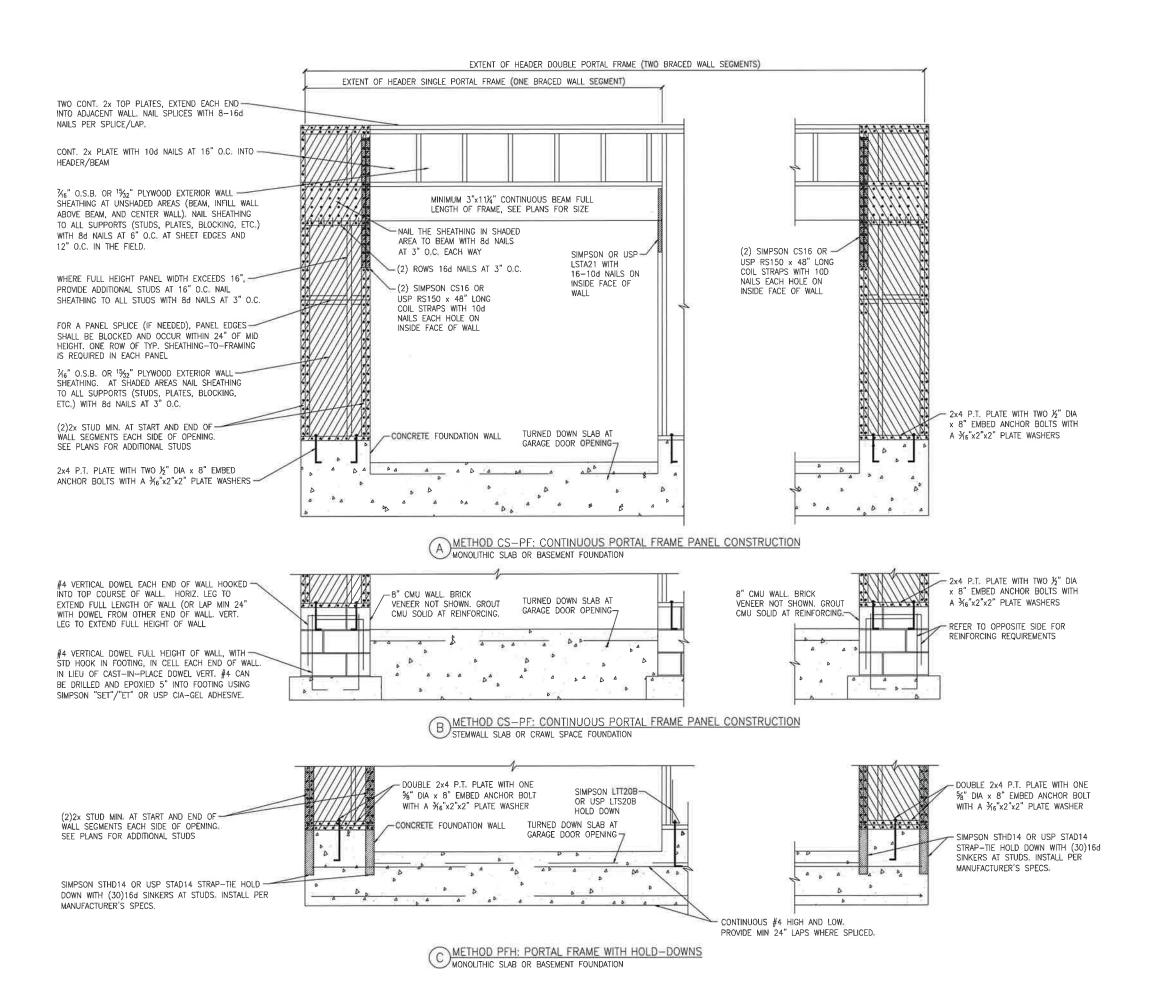
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Designed By: KRK Checked By: Issue Date: 1/1/19

Re-Issue:

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



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

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

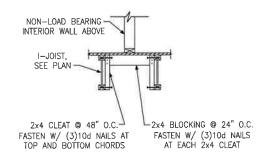
ssue Date: 1/1/19

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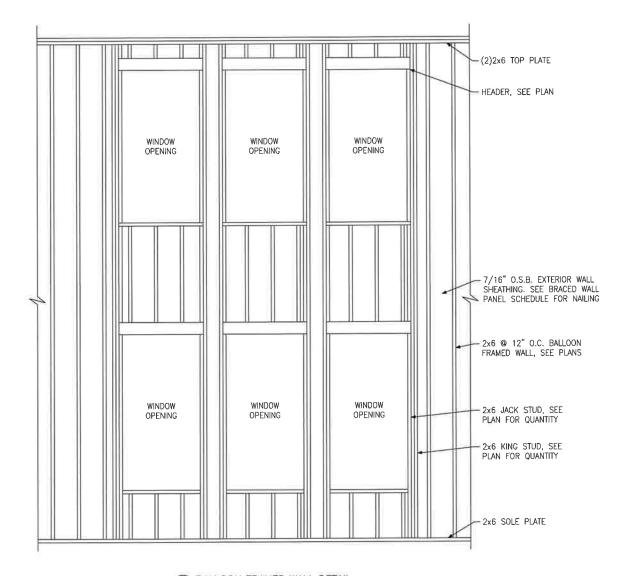
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Carolina



C I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.



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Details Framing Miscellaneous

130 M.P.H. Up to North Project #: 105-19000

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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

SD-5

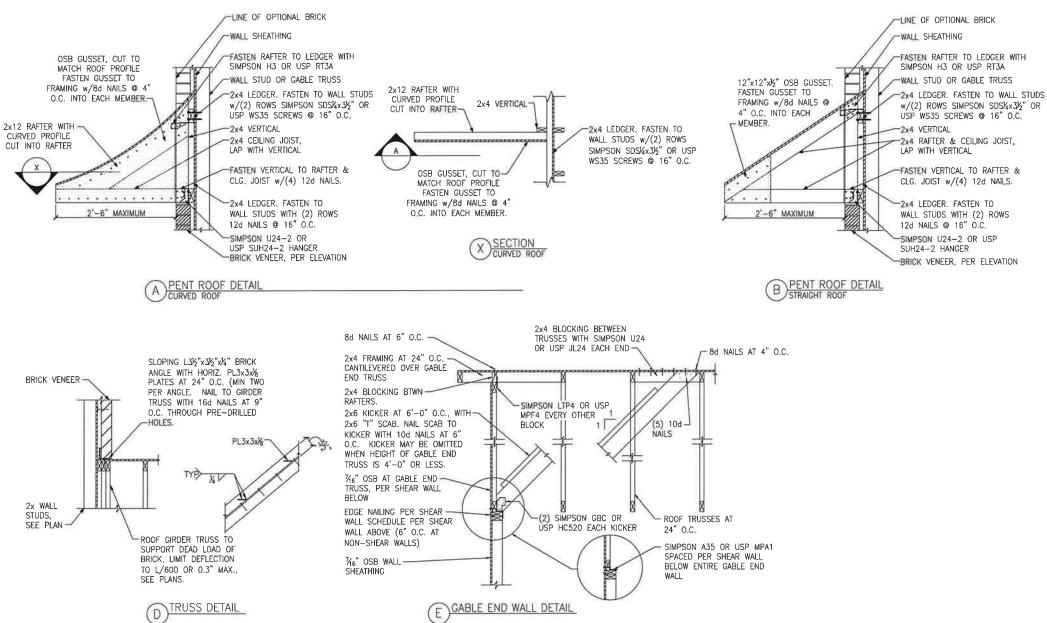


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Project #: 105-19000

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



(E) GABLE END WALL DETAIL

2x4 RAFTER & CEILING JOIST, FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS. -2x4 LEDGER. FASTEN TO WALL STUDS WITH (2) ROWS 12d NAILS @ 16" O.C.

SIMPSON U24-2 OR USP

BRICK VENEER, PER ELEVATION

C EYEBROW ROOF DETAIL
STRAIGHT ROOF

-WALL STUD OR GABLE TRUSS

TOENAIL RAFTER TO LEDGER

-2x4 LEDGER, FASTEN TO WALL STUDS

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

USP WS35 SCREWS @ 16" O.C.

-2x4 RAFTER & CEILING JOIST,

LAP AND FACE NAIL WITH (4)

-2x4 LEDGER, FASTEN TO WALL OR GABLE TRUSS WITH (2)

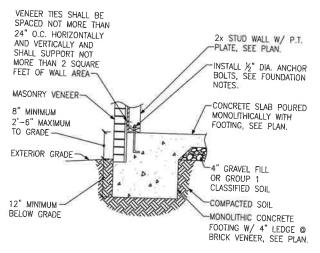
ROWS 12d NAILS @ 16" O,C.

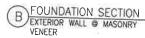
WITH (4) 12d NAILS

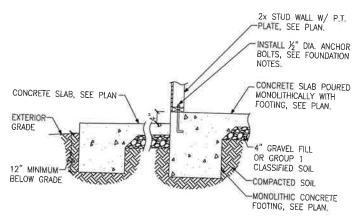
12d NAILS

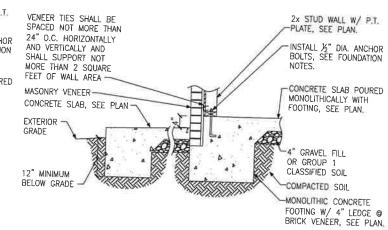
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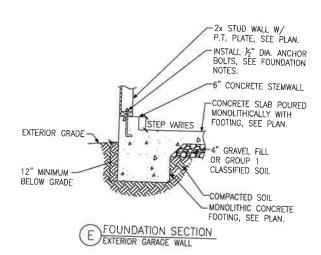


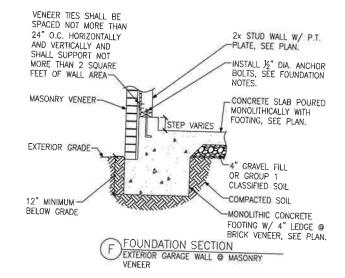


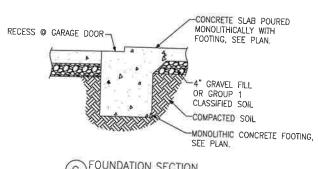


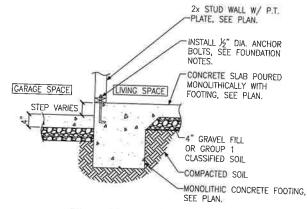


FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY

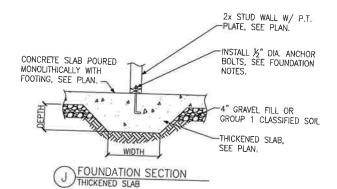


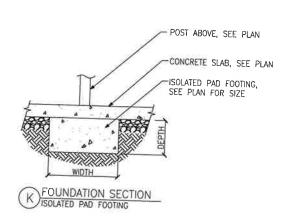






FOUNDATION SECTION INTERIOR GARAGE WALL







Det Foundation Slab Monolithic

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to Ŧ Nort dh Project #: 105-19000 Designed By: KRK Checked By: ssue Date: 1/1/19

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

M.P.H.

Carolina 130

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FOUNDATION SECTION EXTERIOR WALL AT PORCH

FOUNDATION SECTION