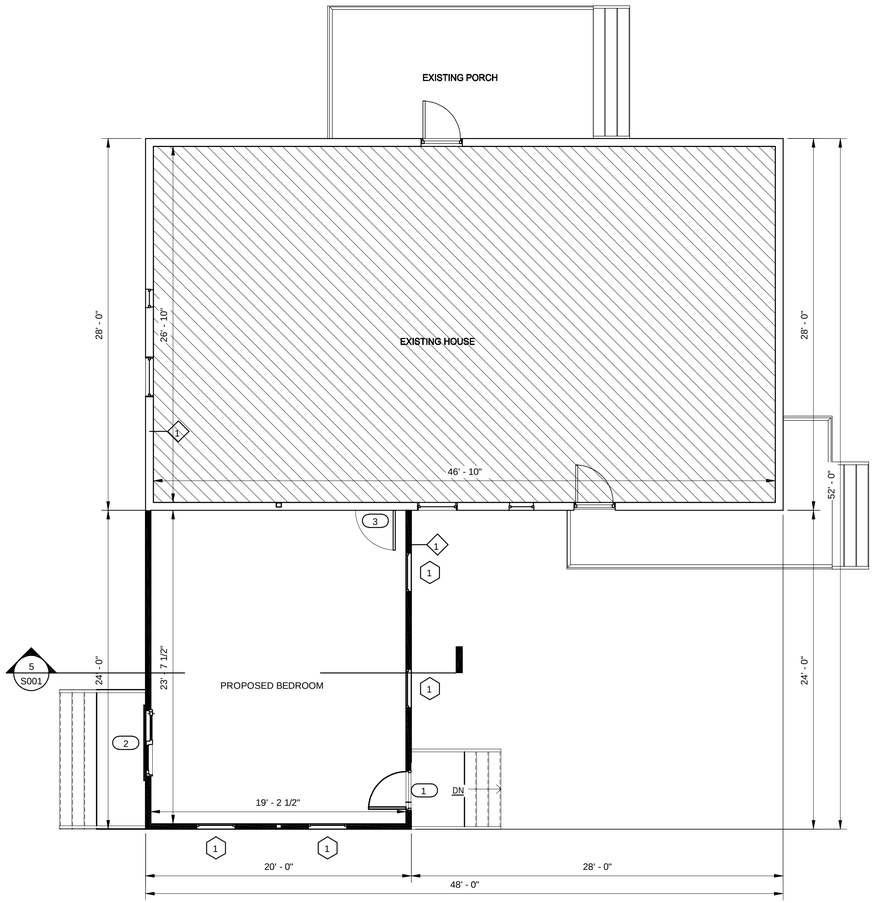
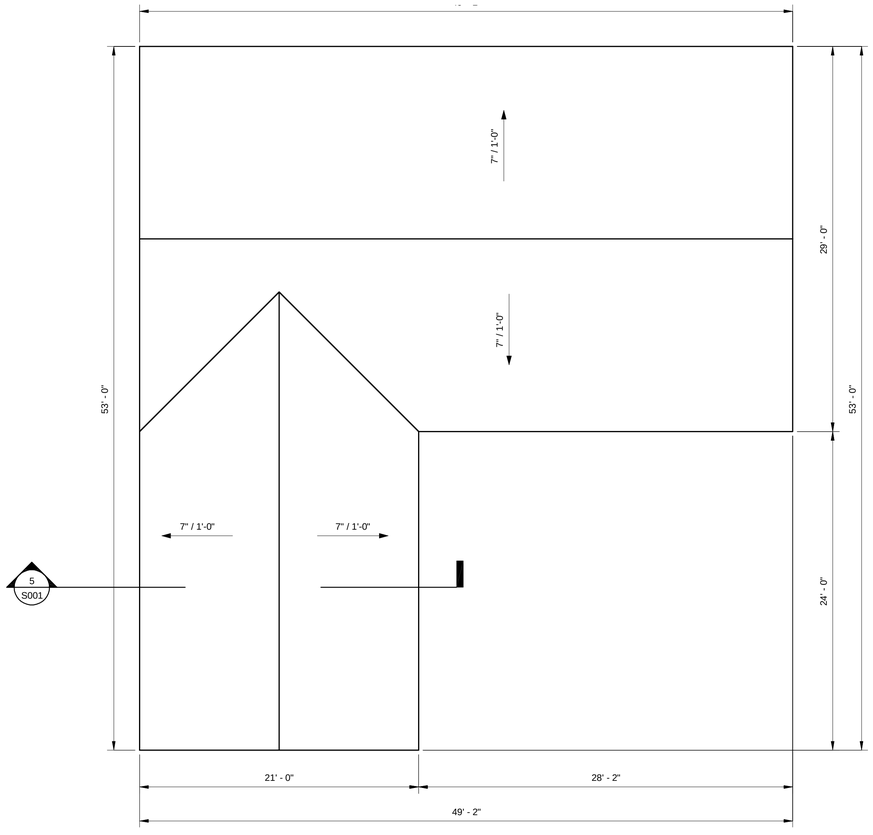


FIRST FLOOR PLAN

3/16" = 1'-0"

PLAN SYMBOLS

- WINDOW TAG
- DOOR TAG
- WALL TAG
- EX. WALLS
- NEW WALLS



ROOF PLAN

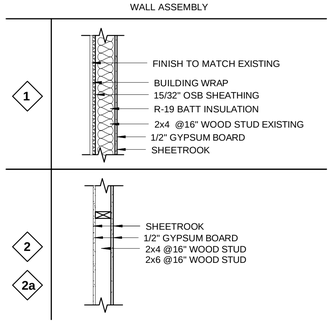
3/16" = 1'-0"

ROOM SCHEDULE		
Number	Name	Net Area
18D	PROPOSED BEDROOM	480 SF
1ST FLOOR (HEATED AREA TO BE ADDED)		480 SF

WINDOW SCHEDULE								
MARK	TYPE	HEIGHT	WIDTH	AREA	U VALUE	SHGC	COUNT	REMARKS
1	SINGLE HUNG	4' - 0"	3' - 0"	12 SF	0.35	0.25	4	NEW

DOOR SCHEDULE										
MARK	TYPE	WIDTH	HEIGHT	THICKNESS	AREA	U-VALUE	SHGC	COUNT	HARDWARE	REMARKS
1	EXTERIOR SINGLE DOOR	3' - 0"	7' - 0"	0' - 2"	21 SF	0.35	0.25	1	LOCKED	NEW
2	EXTERIOR SLIDING 2 PANEL DOOR	5' - 0"	7' - 0"		35 SF	0.35	0.25	1	LOCKED	NEW
3	SINGLE DOOR	3' - 0"	7' - 0"	0' - 2"	21 SF			1	LOCKED	NEW

WALL ASSEMBLY



.\272MadisonLn,Cameron,NCRev2-egreeswindows1-3355828_jpg

.\272MadisonLn,Cameron,NCRev2-egreeswindows2-3355830_jpg

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

REVISIONS

PLANS FLOOR & ROOF

SINGLE FAMILY HOUSE

272 Madison Ln

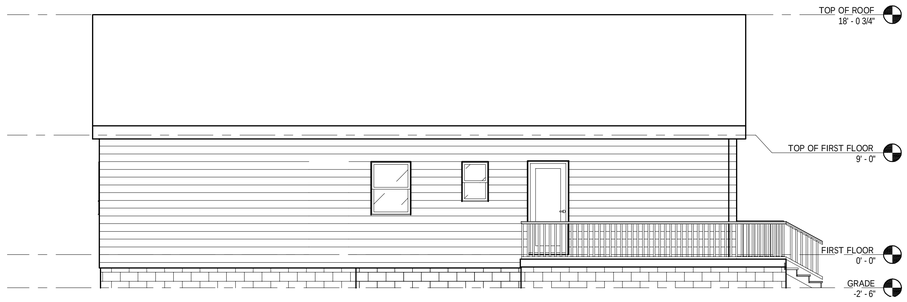
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC

01/24/2021

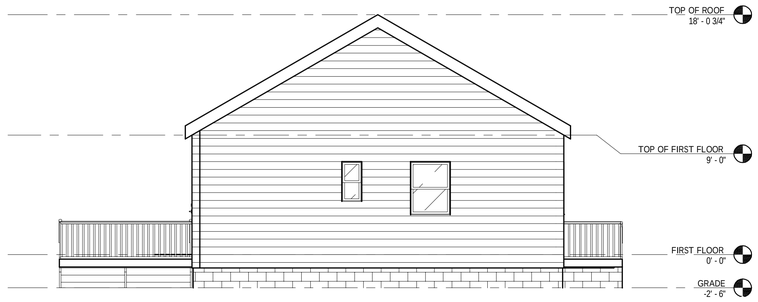
EQUAGEN® ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DR., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
A002	21–2005



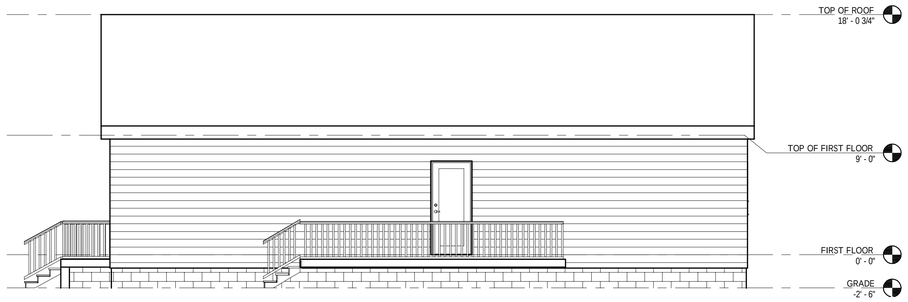
EXISTING SOUTH ELEVATION

3/16" = 1'-0"



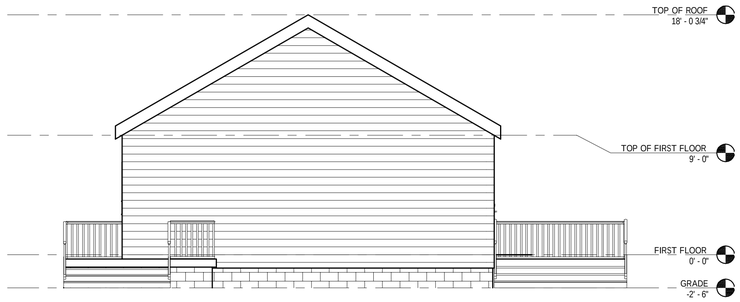
EXISTING WEST ELEVATION

3/16" = 1'-0"



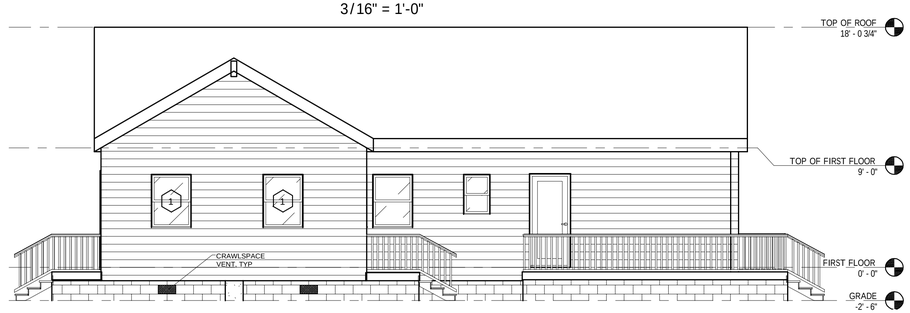
EXISTING NORTH ELEVATION

3/16" = 1'-0"



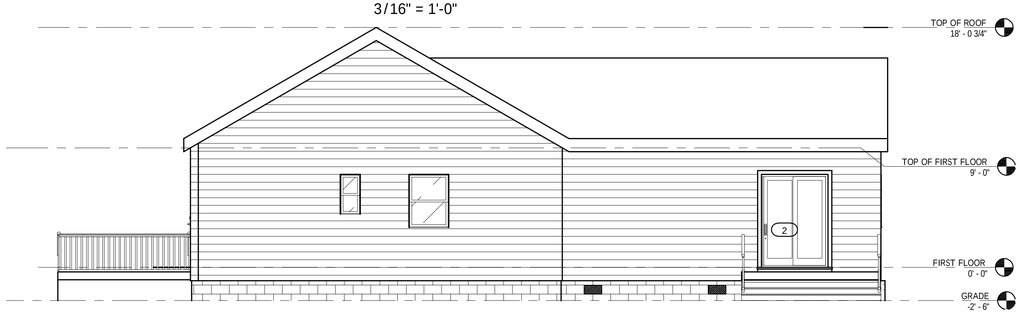
EXISTING EAST ELEVATION

3/16" = 1'-0"



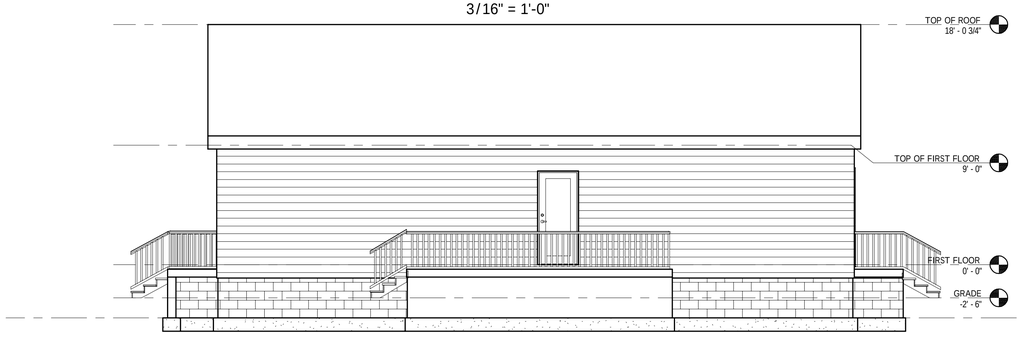
PROPOSED SOUTH ELEVATION

3/16" = 1'-0"



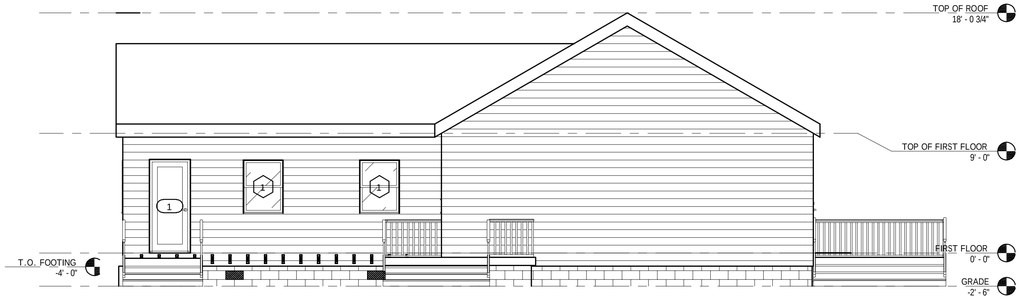
PROPOSED WEST ELEVATION

3/16" = 1'-0"



PROPOSED NORTH ELEVATION

3/16" = 1'-0"



PROPOSED EAST ELEVATION

3/16" = 1'-0"

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

REVISIONS

ELEVATIONS

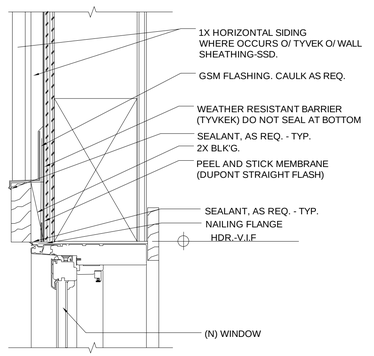
SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL SEAL 042307 ENGINEER MOTI KC

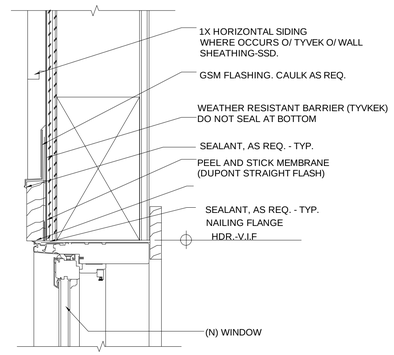
01/24/2021

EQUAGEN ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DRI., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

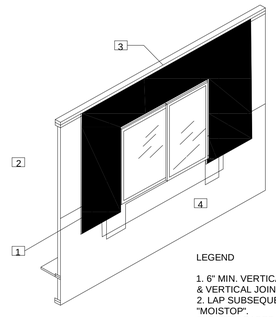
DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
A003	21–2005



WINDOW HEAD @ WD. BOARD & BATTEN SIDING 12



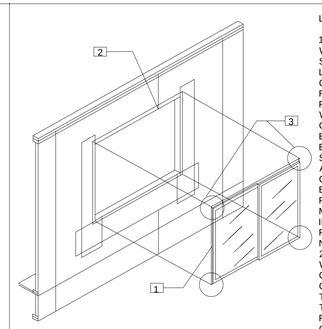
WINDOW HEAD @ HORIZONTAL SIDING 9



LEGEND

1. 6" MIN. VERTICAL LAP FOR ALL HORIZONTAL & VERTICAL JOINTS IN BUILDING PAPER.
2. LAP SUBSEQUENT COURSES OVER "MOISTOP".
3. CARRY PAPER TO UPPER EDGE OF TOP PLATE.
4. HOLD PAPER BACK 1" FROM WINDOW.

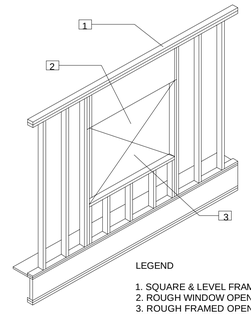
BUILDING PAPER-SECOND COURSE 7



LEGEND

1. SHIM & ADJUST WINDOW TO ACHIEVE SQUARE PLUMB & LEVEL CONDITION. USE CORROSION RESISTANT FASTENERS. FASTEN WITHIN 10" AND NO CLOSER THAN 3" IN EACH DIRECTION FROM EVERY CORNER. SECURE WINDOW AROUND FRAME OPENING WITH EQUIVALENT OF 64 FASTENERS AT 16" O.C. MAX. REFER TO MFG.'S INSTRUCTIONS REGARDING UPPER NAIL FIN ATTACHMENT.
2. TO SEAL THE WINDOW FRAME TO OPENING, APPLY CONTINUES SEALANT TO THE BACKSIDE OF THE MOUNTING FLANGE NEAR THE OUTER EDGE OR APPLY CONTINUES SEALANT TO PERIMETER OF OPENING AT A POINT TO ASSURE CONTACT WITH BACKSIDE OF MOUNTING FLANGE. AFTER INSTALLATION, SEAL ALL CORNERS & MECHANICALLY JOINT FRAMES TO SEAL FRAME SEAM JUNCTURE.

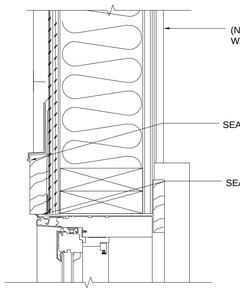
WINDOW INSTALLATION 4



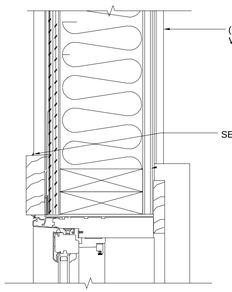
LEGEND

1. SQUARE & LEVEL FRAMING.
2. ROUGH WINDOW OPENING.
3. ROUGH FRAMED OPENING SUFFICIENTLY IN WIDTH & HEIGHT THAN THE ACTUAL FRAME DIMENSIONS OF THE WINDOW. TO ASSURE ADEQUATE CLEARANCE CONSULT THE WINDOW MANUFACTURED'S LITERATURE FOR THE RECOMMENDED ROUGH OPENING DIMENSIONS.

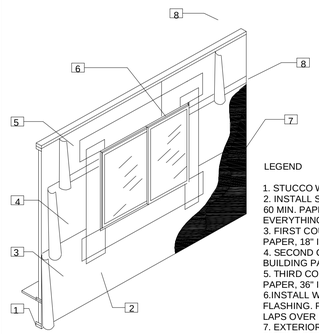
ROUGH WINDOW OPENING 1



WINDOW JAMB @ WD. BOARD & BATTEN SIDING 13



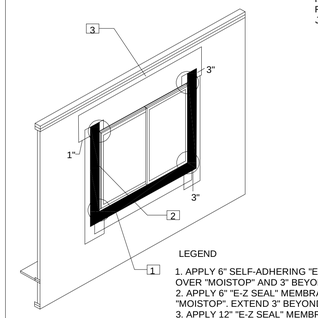
WINDOW JAMB@HORIZONTAL SIDING 10



LEGEND

1. STUCCO WEED
2. INSTALL SECOND LAYER OF 60 MIN. PAPER OVER EVERYTHING.
3. FIRST COURSE OF BUILDING PAPER, 18" IN HEIGHT.
4. SECOND COURSE OF BUILDING PAPER, 36" IN HEIGHT.
5. THIRD COURSE OF BUILDING PAPER, 36" IN HEIGHT.
6.INSTALL WINDOW HEAD FLASHING. PROTECTION LAYER LAPS OVER FLASHING FLANGE.
7. EXTERIOR WALL FINISH: INSTALL PER WALL FINISH MFG.'S RECOMMENDATION.
8. 6" VERTICAL/HORIZONTAL LAPS.

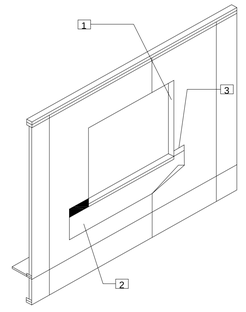
TRIM-FLASHING-PROTECTION COURSE 8



LEGEND

1. APPLY 6" SELF-ADHERING "E-Z SEAL" MEMBRANE OVER "MOISTOP" AND 3" BEYOND WINDOW FLANGE.
2. APPLY 6" "E-Z SEAL" MEMBRANE AT JAMBS OVER "MOISTOP". EXTEND 3" BEYOND WINDOW FLANGE.
3. APPLY 12" "E-Z SEAL" MEMBRANE AT HEADER OF WINDOW, EXTEND 1" BEYOND "MOISTOP".
4. APPLY FIRM PRESSURE TO SELF-ADHERING MEMBRANE TO ASSURE ADHERENCE TO WINDOW FINS.
5. CECH ALL CORNERS FOR PROPER SEAL OF SELF-ADHERING MEMBRANE.

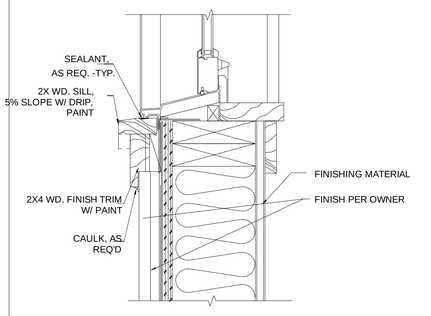
SELF-ADHESIVE MEMBRANE 5



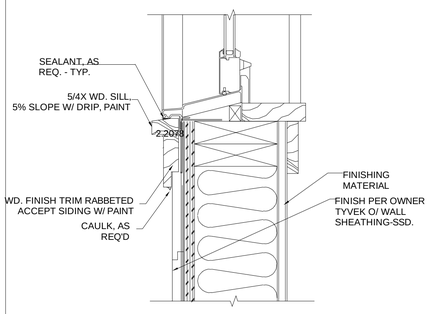
LEGEND

1. WALL SHEATHING (WHERE OCCURS). VERIFY SHEATHING EDGES FLUSH WITH FRAME OPENING AND COMPLETION OF STRUCTURAL NAILING & REINFORCEMENT BEFORE PROCEEDING.
2. APPLY 9" "MOISTOP" OR APPROVED EQUIVALENT SILL FLASHING HORIZONTALLY BELOW THE SILL. (WRAP FLASHING INTO ROUGH OPENING TO PROTECT FRAMING- AT RECESSED WINDOWS ONLY.) FASTEN THE TOP EDGE OF THE SILL FLASHING TO THE FRAMING. BUT DO NOT FASTEN THE LOWER EDGE, SO WEATHER RESISTANT BUILDING PAPER APPLIED LATER MAY BE SLIPPED UP & UNDERNEATH THE FLASHING IN WEATHER BOARD FASHION.
3. EXTEND "MOISTOP" OR APPROVED EQUIVALENT SILL FLASHING HORIZONTALLY 1" BEYOND VERTICAL JAMB FLASHING APPLIED LATER.

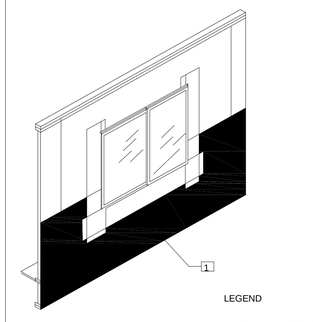
SILL FLASHING 2



WINDOW SILL @ WD. BOARD & BATTEN SIDING 14



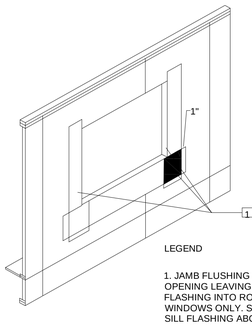
WINDOW SILL @ HORIZONTALN SIDING 11



LEGEND

1. INSERT FIRST COURSE 60 MIN. PAPER UNDER "MOISTOP" AND STAPLE "MOISTOP".

BUILDING PAPER - FIRST COURSE 6



LEGEND

1. JAMB FLUSHING FLUSH AT BOTH SIDES OF OPENING LEAVING FREE AT BOTTOM. (WRAP JAMB FLASHING INTO ROUGH OPENING AT RECESSED WINDOWS ONLY. SIMILAR AT SILL). EXTEND BEYOND SILL FLASHING ABOVE WHERE HEAD FLASHING WILL INTERSECT. LAP JAMB FLASHING OVER TOP SILL FLASHING. LEAVE PAPER FLASHING UNATTACHED FROM SILL DOWN.

JAMB FLASHING 3

REVISIONS

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

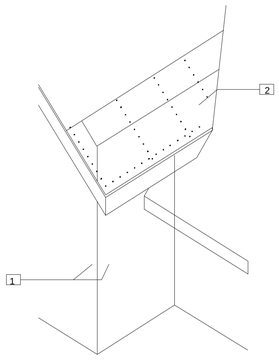
DETAILS

SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC
01/24/2021

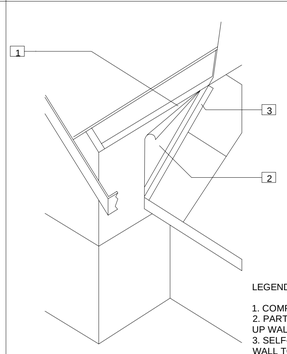
EQUAGEN ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DRI., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
A006	21–2005



LEGEND

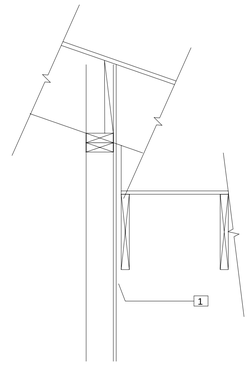
FINAL ROOF SHEATHING 7



LEGEND

1. COMPLETE PAPERING OF WALL.
2. PARTIAL INSTALL 30# ROOF FELT 18" UP WALL AND 24" ON ROOF TOP.
3. SELF-ADHERING MEMBRANE 3" ON WALL TO ROOF.

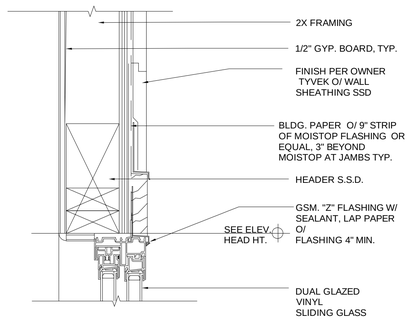
BUILDING PAPER TO WALL 4



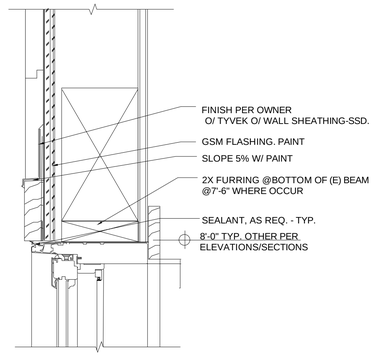
LEGEND

1.1/2" CLEARANCE BETWEEN WALL AND ROOF SHEATHING.

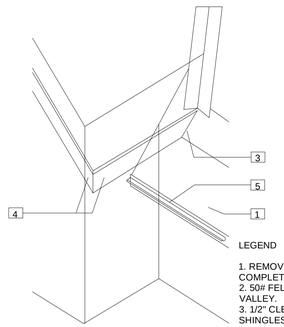
ROOF TO WALL 1



SLIDING GLASS DOOR HEAD/JAMB 18



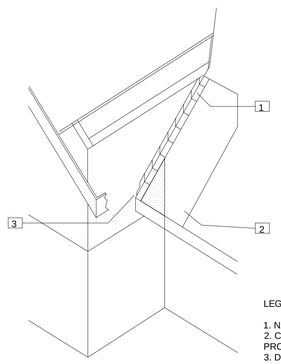
TYP. DOOR HEAD @ HORIZONTAL WD. SIDING 15



LEGEND

1. REMOVE PROTECTION BOARD & COMPLETE ROOFING FELT.
2. 50# FELT OVER WOVEN 30# VALLEY.
3. 1/2" CLEARANCE BETWEEN ROOF SHINGLES AND FASCIA.
4. INSTALL FINISH FASCIAS.
5. INSTALL GUTTERS.

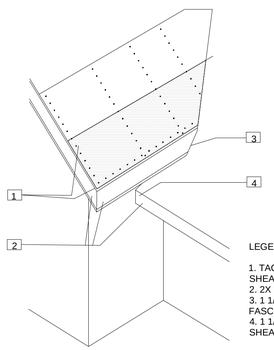
FINISH APPLICATION 8



LEGEND

1. NAIL G.I. FLASHING TO WALL.
2. COVER ROOF FELT WITH PROTECTION BOARD.
3. DIVERTER STEP FLASHING.

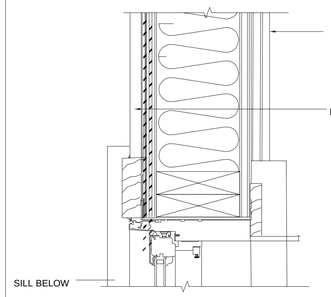
STEP FLASHING 5



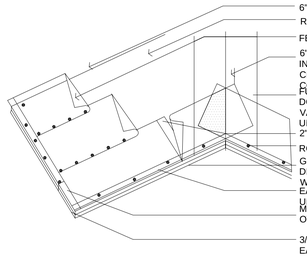
LEGEND

1. TACK NAIL LOWER EPIC OF ROOF SHEATHING.
2. 2X ROUGH FASCIA.
3. 1 1/2" CLEARANCE BETWEEN FASCIA AND SHEATHING.
4. 1 1/2" CLEARANCE BETWEEN WALL SHEATHING & ROOF RAFTER.

ROUGH FRAMING 2

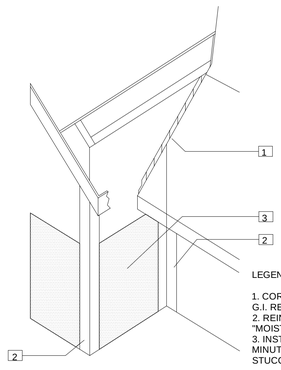


TYP. DOOR JAMB @ HORIZONTAL WD. SIDING 16



APPLICATION NOTES FOR LOW SLOPE, 2:12 TO LESS THAN 4:12 :
1. START W/ 1-19" WIDE SHEET OF FELT ALONG EAVE W/ 3/8" OVERHANG.
2. TROWEL A CONTINUOUS LAYER OF ROOFING CEM. (@ A RATE OF 2 GAL. PER 100 SQ. FT) ON TO THE FELT.
3. PRESS 1-36" WIDE SHEET OF FELT FIRMLY ONTO THE CEM., & NAIL DOWN W/ GALV. ROOFING NAILS @ 12" O.C. ALONG A LINE 18" ABOUT THE BTM. EDGE OF THE FELT.
4. APPLY ROOFING CEM. TO THE UPPER 19" OF THE EXPOSED FELT.
5. COVER THE CEMENTED PORTION W/ THE NEXT SHEET OF FELT & NAILS.
6. REPEAT PROCESS UNTIL 24" INSIDE THE INTERIOR WALL LINE.
7. COVER THE REMAINING ROOF W/ DBL. LAYERS OF FELT, W/O CEM., UP TO THE RIDGE.

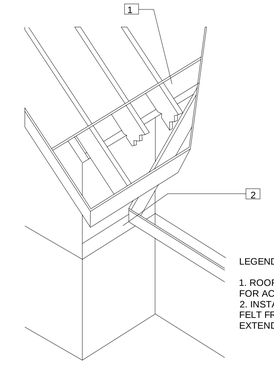
FELT UNDERLAYMENT 9



LEGEND

1. CORNER FLASH FLASHING WITH G.I. REGLET.
2. REINFORCE CORNERS WITH 12" "MOISTOP".
3. INSTALL SECOND COURSE OF 60 MINUTE FELT OVER REGLET AND STUCCO WEEP SCREED.

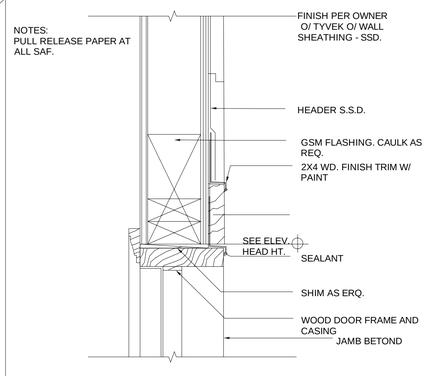
CORNER FLASHING 6



LEGEND

1. ROOF PLY TEMPORARILY MOVED FOR ACCESS.
2. INSTALL CONTINUOUS PIECE OF FELT FROM CORNER TO CORNER EXTENDING UP TO TOP PLATE.

FELT APPLICATION 3



DOOR HEAD/JAMB 17

NO.	DATE	REVISIONS
000	01/24/2021	Permit Submittal

DETAILS

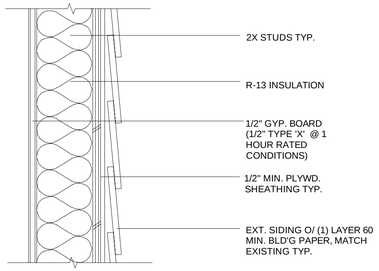
SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC

01/24/2021

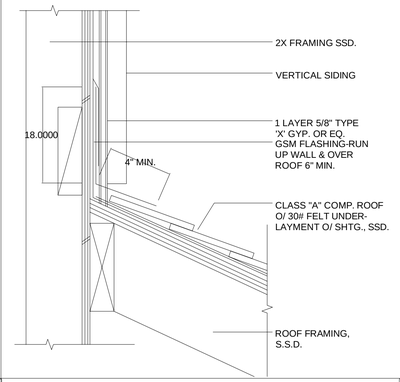
EQUAGEN® ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DR., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
A007	21–2005

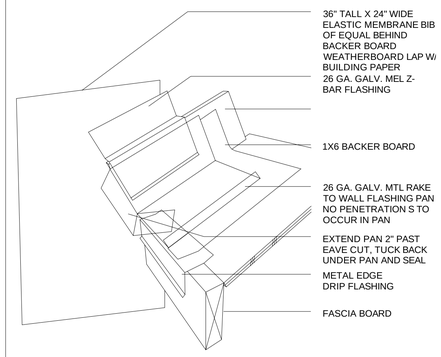


WARNING:
DO NOT CUT OR DAMAGE HEATIZON "TUFF CABLE" OR IT'S INSULATOR IN ANY WAY.

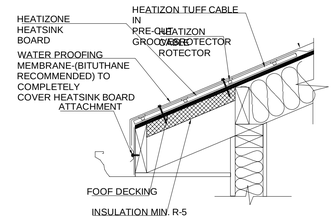
22 HORIZONTAL LAP SIDING



19 ROOF TO WALL PERP.

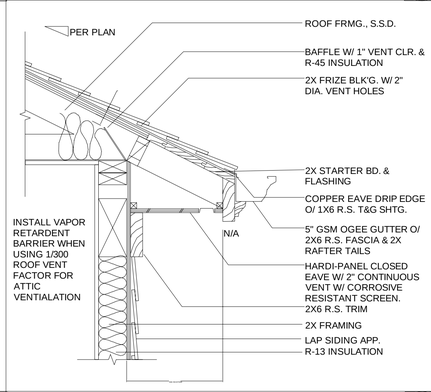


13 RAKE TO WALL DIVERTER

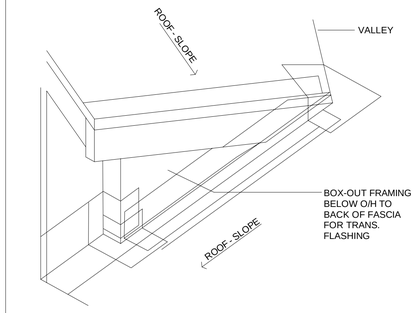


NOTE:
ALL ATTACHMENTS FOR ROOFING SYSTEM OR OTHER COMPONENTS SHOULD BE MADE PRIOR TO INSTALLATION OF WATER-PROOFING COVERING.

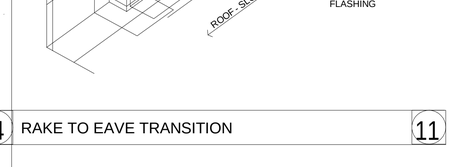
23 EAVE DETAIL-TUFF CABLE IN HEATSINK UNDER METAL ROOF



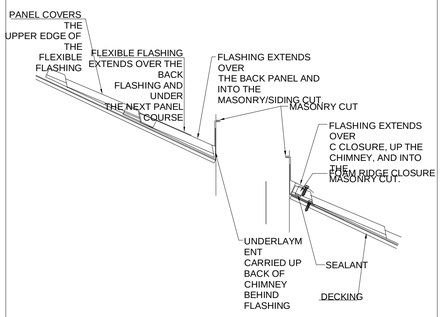
20 EAVE



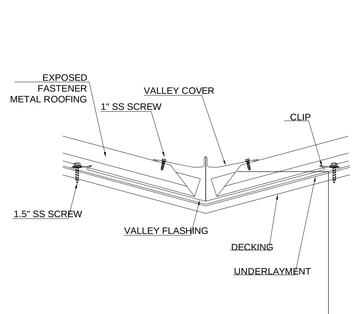
17 VALLEY



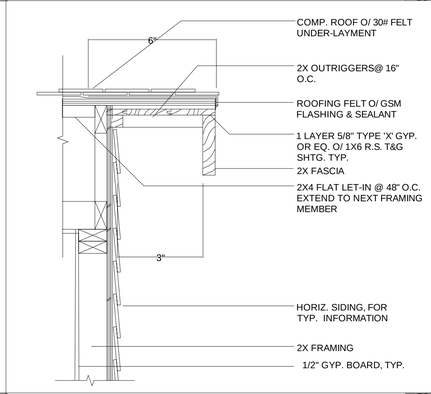
14 RAKE TO EAVE TRANSITION



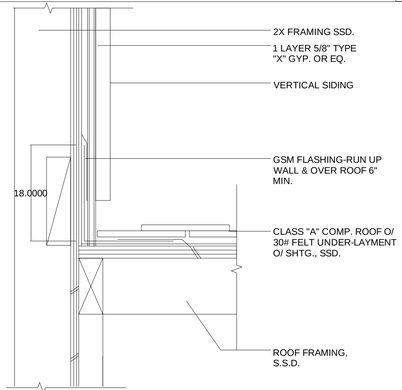
METAL ROOF CHIMNEY FLASHING DETAILS



24 METAL ROOF VALLEY DETAIL



21 RAKE



18 ROOF TO WALL PARALLEL

ISOMETRIC EAVE PERP. TO WALL @ COMP. 12

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

REVISIONS

DETAILS

SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC
01/24/2021

EQUAGEN® ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DRI., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
A008	21–2005

I. GENERAL

1) DESIGN BUILDING CODE: 2018 NORTH CAROLINA RESIDENTIAL CODE.
2) THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS WITH THE ARCHITECTURAL AND OTHER TRADES DRAWINGS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGNER OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO CONSTRUCTION.
3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AND SHORING, AS REQUIRED, TO INSURE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR PORTION THEREOF DURING CONSTRUCTION. THE DESIGN PROCEDURES SHALL CONFORM TO ALL GOVERNING CODES AND SAFETY REQUIREMENTS. TEMPORARY BRACING AND SHORING SHALL BE IN CONFORMANCE WITH OSHA REGULATIONS.
4) ALL VERTICAL ELEMENTS (WALLS, COLUMNS) ARE DESIGNED AS LATERALLY BRACED BY THE FLOOR AND ROOF SYSTEMS. CONTRACTOR SHALL ENSURE THAT WALLS ARE ADEQUATELY BRACED DURING CONSTRUCTION.
5) THE PURPOSE OF THIS ENGINEERING PROJECT IS TO MAKE CHANGES TO THE ORIGINAL STRUCTURAL PLANS. THE ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL ITEMS SPECIFICALLY ADDRESSED IN THIS PROJECT, AND STRUCTURAL SPECIFICATIONS PROVIDED ARE DESIGNED TO MEET THE INTENT OF THE NC RESIDENTIAL CODE, 2018 EDITION.
6) ANY SUBCONTRACTOR WHICH AGREES TO CONSTRUCT THE PROJECT PURSUANT TO THESE PLANS FULLY ASSUMES THE RISK OF ALL ERRORS AND OMISSIONS WHICH SHOULD HAVE BEEN DETECTED BY A CAREFUL REVIEW BY A KNOWLEDGEABLE LICENSED CONTRACTOR, THAT WHICH FOR ANY REASON WERE NOT RESOLVED DURING THE BIDDING OR NEGOTIATION PROCESS. FURTHER, THE CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AS THE WORK PROGRESSES IN ORDER TO IDENTIFY ANY SIGNIFICANT ERRORS AND OMISSIONS AND TO ASCERTAIN ALL NECESSARY INFORMATION BEFORE PROCEEDING WITH THE AFFECTED WORK, AND ASSUMES THE RISK OF ANY AND ALL LOSS, INCLUDING DELAY, WHICH MAY BE CAUSED OR CONTRIBUTED TO BY THE FAILURE TO ASCERTAIN CORRECT OR NECESSARY INFORMATION IN A TIMELY MANNER.
7) THE PLANS SHALL BE REVIEWED FOR DIMENSIONAL & EXISTING SITE CONFORMANCE WITH THE PLANS BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
8) THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD; AND ALL QUESTIONS AS TO DIMENSIONS AND FIELD CONDITIONS SHALL BE RESOLVED BEFORE THE AFFECTED WORK PROCEEDS. NO DIMENSIONS SHALL BE OBTAINED BY SCALING THESE PLANS.
9) CONTRACTOR SHALL HIRE A PROFESSIONAL ENGINEER TO INSPECT CONSTRUCTION OF PROPOSED FLOOR FRAMING, FOUNDATION, WALL BRACING PANELS AND OTHE PROPOSED STRUCTURAL ELEMENTS TO ENSURE THE RECOMMENDATIONS MADE ON THESE PLANS ARE STRICTLY FOLLOWED.
10) CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS OF THE JOB.

II. SITE WORK

1) BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 1'-0" BELOW EXTERIOR GRADE, UNLESS NOTED OTHERWISE (UNO).
2) VERIFY EXISTING UTILITIES PRIOR TO START OF ANY EXCAVATION WORKS. COORDINATE WITH CIVIL DRAWINGS FOR WORKS RELATED TO UTILITIES. DO NOT PLACE UTILITY LINES THROUGH OR BELOW ANY FOUNDATIONS WITHOUT THE APPROVAL OF THE DESIGNER OF RECORD.
3) ALL FOOTINGS SHALL PROJECT AT LEAST 1 FT INTO UNDISTURBED NATURAL SOIL OR COMPACTED STRUCTURAL FILL. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS POURED. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 1.5:1 (ONE AND HALF HORIZONTAL TO ONE VERTICAL). FOOTINGS SHALL NOT BE FOUNDED ON EXISTING FILL, LOOSE OR WET SOIL. STEP FOOTINGS WITH A RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

III. CAST-IN-PLACE CONCRETE

1) ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI -301, ACI-318 AND ACI -302.
2) REINFORCING STEEL
   i. DEFORMED BILLET STEEL: ASTM A615 - GRADE 60
   ii. WELDED WIRE FABRIC (WWF): ASTM A185
3) ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI-315)". DETAILS OF REINFORCEMENT SHALL CONFORM TO ACI-318, ACI-315 AND CRSI STANDARDS.
4) REINFORCEMENT SPLICES SHALL BE LAP SPLICES WITH A MINIMUM LAP OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
5) CAST-IN-PLACE CONCRETE SHALL BE READY-MIX PER ASTM-C94. THE MIX SHALL BE PROPORTIONED WITH:
   i. PORTLAND CEMENT: ASTM C150
   ii. AGGREGATES (3/4' IN MAXIMUM SIZE): ASTM C33
   iii. NO CALCIUM CHLORIDE SHALL BE PERMITTED
   iv. AIR ENTRAINMENT: ASTM C260
   v. WATER REDUCING ADMIXTURE: ASTM C494
   vi. FLY ASH CLASS F (20% MAXIMUM BY WEIGHT): ASTM C618
   v. WATER: CLEAN AND POTABLE
6) RESTRICT THE ADDITION OF WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF CONCRETE MIX DESIGNER AND DO NOT EXCEED SLUMP LIMITATIONS. USE COLD WATER FROM THE TRUCK TANK AND REMIX TO ACHIEVE CONSISTENCY. THE REPORTS SHALL INDICATE HOW MUCH WATER WAS ADDED AT THE JOB SITE. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
7) PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI-301 AND ACI-308. APPLY A 30% SOLIDS LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309. LIQUID MEMBRANE MUST NOT ADVERSELY AFFECT SURFACE FOR BONDING OF FUTURE FINISHES.
8) CONCRETE COMPRESSIVE STRENGTH AT 28 DAY CURE SHALL BE 2500 PSI.
9) SLUMP: 4" PLUS OR MINUS 1" AT THE POINT OF DISCHARGE INTO THE FORMS.
10) WATER CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL AIR ENTRAINED CONCRETE
11) ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MINIMUM AIR ENTRAINMENT OF 6% ±1.5 PER ACI-318 CLAUSE 4.4.1.
12) PROVIDE CORNER BARS 3'-0" x 3'-0" AT ALL WALL AND FOOTING INTERSECTIONS TO MATCH CONTINUOUS REINFORCING. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETER.
13) PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC, AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.
14) SEE STRUCTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES.

IV. WOOD

1) ALL LUMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2015 SUPPLEMENT.
2) LUMBER SHALL BE SOUND, SEASONED, AND FREE FROM WARP.
3) ALL STUDS SHALL BE INSTALLED IN ACCORDANCE WITH AF & PA (AMERICAN FOREST & PAPER ASSOCIATION) REQUIREMENTS. MEMBERS ARE NOT TO BE DRILLED IN EXCESS OF NDS OR LOCAL CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ALL POSTS AND STUDS SHALL STACK CONTINUOUSLY TO SOLID BEARING ON FOUNDATION WALLS OR BEAMS; PROVIDE SOLID BLOCKING AND/OR CRIPPLES AS REQUIRED BETWEEN FLOORS.
4) STUD BEARING WALLS AND EXTERIOR STUD WALLS SHALL BE CONTINUOUSLY BRIDGED WITH WOOD BLOCKING AT MID-SPAN VERTICAL SPACING BETWEEN FLOOR (AND ROOF) LEVELS. STUDS AND POSTS SHALL BE ONE-PIECE-CONTINUOUS BETWEEN FLOOR LEVELS AND BETWEEN FLOOR LEVEL AND ROOF DIAPHRAGMS. ALL DOUBLE STUDS SHALL BE NAILED TO EACH OTHER AT 8" MAXIMUM SPACING FULL- HEIGHT.
5) MINIMUM GRADES, FOR DIMENSIONED LUMBER, SHALL BE SPF #1/ #2 GRADE AS DEFINED BY THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, NFPA. ALL WOOD MEMBERS SHALL BE MANUFACTURED TO COMPLY WITH PS20 OF "AMERICAN SOFTWOOD LUMBER STANDARDS".
   i. MOISTURE CONTENT SHALL BE 19% MAXIMUM.
   ii. LUMBER ON SITE SHALL BE PROTECTED FROM WEATHER AND STORED ABOVE GROUND WITH SUPPORTS. DRY-IN EACH BUILDING FRAME IMMEDIATELY ONCE FRAMING IS COMPLETE, AND COMMENCE BRICK-INSTALLATION.
6) ALL MULTIPLE MEMBERS ARE TO BE FASTENED TOGETHER WITH 16d NAILS AT 12" ON CENTER (2) ROWS FOR BEAMS 9" - 12" DEEP, (3) ROWS FOR BEAMS 14" - 18" DEEP (STAGGERED).
7) PLYWOOD SHALL BE IDENTIFIED WITH THE DFPA GRADE-TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
8) WALL SHEATHING: SEE WALL SHEATHING SCHEDULE.
9) WOOD POSTS SHALL BE FRAMED TO TRUE END BEARINGS, AND SHALL BE POSITIVELY ANCHORED TO FOUNDATION WITH APPROVED POST BASES. SUPPORT POST SECURELY IN POSITION AND PROTECT BASE FROM DETERIORATION. POSTS OF TREATED WOOD MAY BE PLACED DIRECTLY ON CONCRETE OR MASONRY. USE TREATED WOOD FOR ALL FLOOR JOISTS AND BEAMS, WHICH ARE EXPOSED, OR WITHIN 18" OF THE GROUND, OR IN PERMANENT CONTACT WITH EARTH.
10) PROVIDE COMPATIBLE METAL FASTENERS AND METAL CONNECTORS FOR ACQ, CBA OR SBX TREATED WOOD MEMBERS. THE FOLLOWING FASTENER OR CONNECTOR PRODUCTS ARE RECOMMENDED:
   i. STAINLESS STEEL FASTENERS
   ii. Zmax (G185 HDG PER ASTM 653)
   iii. BATCH/POST HOT-DIPPED GALVANIZED (CONNECTORS PER ASTM A123 AND FASTENERS PER ASTM A153).

CONTRACTOR SHALL COORDINATE WITH TREATED LUMBER MANUFACTURER AND FASTENER / CONNECTOR MANUFACTURER FOR COMPATIBILITY OF PRODUCT USED.

11) BEAR BEAMS AND GIRDERS AT LEAST 4" ON MASONRY OR CONCRETE. FLOOR JOISTS, CEILING JOISTS AND ROOF RAFTERS SHALL HAVE 4" MINIMUM BEARING ON WOOD OR WOOD PLATES ON METAL OR MASONRY.
12) PROVIDE 2" NOMINAL THICKNESS FULL DEPTH SOLID BLOCKING FOR JOISTS AND RAFTERS AT ENDS AND AT SUPPORTS. OMIT SOLID BLOCKING WHEN JOISTS ARE NAILED TO A CONTINUOUS HEADER. LAP JOISTS FRAMING FROM OPPOSITE SIDES OF A BEAM, GIRDER OR PARTITION AT LEAST 6". SECURE JOISTS FRAMED END TO END WITH METAL STRAPS. USE APPROVED FRAMING ANCHORS TO SUPPORT JOISTS FRAMING INTO THE SIDES OF WOOD OR STEEL BEAMS.
13) PROVIDE DOUBLED (OR EQUIVALENT CROSS- SECTION) TRIMMER AND HEADER JOISTS AROUND OPENINGS UNLESS NOTED OTHERWISE. SUPPORT HEADER JOISTS FROM FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM, PARTITION OR A WALL.
14) JOISTS CARRYING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH. JOISTS CARRYING PARTITIONS PARALLEL TO JOISTS SHALL BE DOUBLED.
15) FLOOR DECKING SHALL BE APA RATED FLOOR SHEATHING, GLUED AND NAILED PER APA RECOMMENDATIONS FOR THE STURDI-FLOOR SYSTEM.

REINFORCED MASONRY (CMU)

1. ALL MASONRY SHALL BE REINFORCED CONCRETE MASONRY UNIT IN ACCORDANCE WITH THE LATEST EDDITION OF ACI 530/ASCE 5/TMS 402.
2. MINIMUM MASONRY BLOCK (ASTM C90) STRENGTH SHALL (F'M) BE 2000 PSI.
3. TYP E "S" MORTAR (ASTM C270) SHALL BE USED USING 3/8" FULL BEDDING REINFORCED W/ 9 GAGE GALVANIZED LADDER WIRE EVERY 2ND ROW.
4. FILLED CELLS SHALL BE REINFORCED WITH #4 REBARS @ 48" O.C. (UNLESS OTHERWISE IS SPECIFIED ON THE PLANS).
5. GROUT SHALL BE PEA ROCK PUMP MIX (ASTM C476) WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (28 DAY) (ASTM C1019). TARGETED SLUMP SHALL BE 8"-11".

WARNING: THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN IN THESE PLANS DEPENDS ON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF-BRACING UNTIL PERMANENTLY AFFIXED TO THE STRUCTURE. THE DESIGNER ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

SCOPE STATEMENT: ADDITION OF 24 FEET X 20 FEET ROOM.

ADDITIONAL HEATED AREA : 480 SQ. FT

DESIGN LOADS:

DESCRIPTION	DEAD LOAD	LIVE LOAD	SNOW LOAD (b)
ROOF	17 PSF	20 PSF	10 PSF
FLOOR	15 PSF	40 PSF	-
ATTIC W/O STORAGE	10 PSF	10 PSF	-
ATTIC W/ LIMIT STORAGE	10 PSF	20 PSF	-
HABITABLE ATTICS & ATTICS W/ FIXED STAIR	10 PSF	30 PSF	-
SLEEPING ROOMS	15 PSF	30 PSF	-
BALCONIES & DECKS	10 PSF	40 PSF	-
STAIRS	10 PSF	40 PSF	-
GUARD RAILS & HAND RAILS	-	200 LBS (c)	-

WIND LOADS:
- WIND SPEED 110 MPH
- WIND EXPOSURE CATEGORY: B

FOUNDATION DESIGN LOADS (g):
- SOIL BEARING CAPACITY: 1500 PSF
- LATERAL EARTH PRESSURE: 60 PSF/FT (AT REST)

EARTHQUAKE LOADS:
- SEISMIC DESIGN CATEGORY: B
- SITE CLASS: D (ASSUMED DEFAULT)

NOTES:
a. REFER TO IRC TABLE R301.5 FOR MORE INFORMATION.
b. SNOW LOAD SPECIFIED IS GROUND SNOW LOAD ONLY.
c. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP.
d. MECHANICAL EQUIPMENT LOADS IN EXCESS OF 200 LBS SHALL BE NOTIFIED TO STRUCTURAL ENGINEER.
e. PRE-FABRICATED STRUCTURAL COMPONENT SHALL COMPLY WITH DESIGN LOADS FROM APPLICABLE CODES/STANDARDS IN ADDITION TO LOADS SPECIFIED IN THESE NOTES.
f. WIND PRESSURE SPECIFIED IS FOR MAIN WIND FORCE RESISTING SYSTEM ONLY. WIND PRESSURE & LOADS FOR STRUCTURAL COMPONENTS AND CLADDING SHALL BE DETERMINED BY RESPECTIVE REGISTERED DESIGN PROFESSIONAL PER APPLICABLE STANDARDS/CODES.
g. THESE SOIL PROPERTIES SHALL BE FIELD VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER, AS NECESSARY.

DEFLECTION CRITERIA:

DESCRIPTION	TOTAL LOAD	LIVE LOAD
ROOF TRUSSES/RAFTERS/CEILING JOISTS	L/240	L/360 OR 1/2" MAX
FLOOR JOISTS/FLOOR TRUSSES	L/240	L/600 OR 1/4" MAX
MEMBERS SUPPORTING BRICK/HORIZONTAL MASONRY MEMBERS	L/600 OR 0.3" MAX	
JOISTS/TRUSSES SUPPORTING CERAMIC TILE	L/720	

CONCRETE CLEAR COVERS:

DESCRIPTION			MIN. COVER (IN.)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH			3"
CONCRETE EXPOSED TO EARTH OR WEATHER	#6 THROUGH #18 BARS		2"
	#5 BAR, W31 OR D31 WIRE AND SMALLER		1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	SLAB, WALLS, JOISTS		3/4"
	BEAMS, COLUMNS (PRIMARY REINF., TIES, STIRRUPS, SPIRALS		1 1/2"
	SHELLS, FOLDED PLATES	#6 BARS AND LARGER	3/4"
		#5 BAR W31 OR D31 WIRE AND SMALLER	1/2"

FASTENERS:

NO.	DESCRIPTION OF BUILDING ELEMENT	NUMBER AND TYPE OF FASTNER	SPACING AND LOCATION
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d COMMON (2 1/2"x0.131")	TOE NAIL
2	CEILING JOISTS TO PLATE	(3) 8d COMMON (2 1/2"x0.131")	PER JOIST, TOE NAIL
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER. LAPS OVER PARTITIONS	4-10d BOX (3"x0.128")	FACE NAIL
4	CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT) [SEE SECTIONS R802.3.1 AND R802.3.2 AND TABLE R802.5.1(9)]	TABLE R802.5.1(9)	FACE NAIL
5	COLLAR TIE RAFTER, FACE NAIL OR 1 1/4" x 20 GAGE RIDGE STRAP TO RAFTER	(3) 10d COMMON (3"x0.148")	FACE NAIL EACH RAFER
6	RAFTER OR ROOF TRUSS TO PLATE	(3) 10d COMMON NAILS (3 1/2"x0.148")	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTER OR ROOF RAFTER TO MIN. 2" RIDGE BEAM	(3) 10d COMMON (3 1/2"x0.148")	TOE NAIL
		(2) 16d COMMON (3 1/2"x0.162")	END NAIL
8	STUD TO STUD (NOT BRACED WALL PANEL)	10d BOX (3"x0.128")	16" OC FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANEL)	16d COMMON (3 1/2"x0.135")	12" OC FACE NAIL
10	BUILT-UP HEADER. (2" TO 2" HEADER W/ 1/2" SPACER)	16d COMMON (3 1/2"x0.162")	16" OC EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD (TOE NAIL)	(4) 8d COMMON (2 1/2"x0.131")	TOE NAIL
12	TOP PLATE TO TOP PLATE	16d COMMON (3"x0.162")	16" OC FACE NAIL
13	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANEL)	16d COMMON (3 1/2"x0.162")	16" OC FACE NAIL
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	2-16d COMMON (3 1/2"x0.162")	2 EACH 16" OC FACE NAIL
15	TOP OR BOTTOM PLATE TO STUD	(4) 8d BOX (2 1/2"x0.113") OR (3) 16d (3 1/2"x0.135")	TOE NAIL
		(2) 16d COMMON (3 1/2"x0.162")	END NAIL
16	TOP PLATE. LAPS AT CORNERS AND INTERSECTIONS (FACE NAIL)	(3) 10d BOX (3"x0.128")	FACE NAIL
17	1" BRACE TO EACH STUD AND PLATE	(3) 8d BOX (2 1/2"x0.113") OR (2) STAPLES 1 3/4"	FACE NAIL
18	1" x 6" SHEATHING TO EACH BEARING	(2) 8d (2 1/2"x0.113") OR (2) STAPLES 1 3/4"	FACE NAIL
19	1" x 8" SHEATHING TO EACH BEARING	(3) 8d BOX (2 1/2"x0.113") OR (3) STAPLES, 1" CROWN, 16 GA, 1 3/4" LONG	FACE NAIL
20	WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	(4) 8d BOX (2 1/2"x0.113") OR (3) STAPLES, 1" CROWN, 16 GA, 1 3/4" LONG	FACE NAIL
21	JOIST TO SILL OR GIRDER	(4) 8d BOX (2 1/2"x0.113")	TOE NAIL
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATION ALSO)	8d COMMON (2 1/2"x0.131")	6" OC TOE NAIL
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(3) 8d BOX (2 1/2"x0.113") OR (2) STAPLES, 1" CROWN, 16 GA, 1 3/4" LONG	FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	(3) 16d BOX (3 1/2"x0.135")	BLIND AND FACE NAIL
25	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	(3) 16d BOX (3 1/2"x0.135")	AT EACH BEARING, FACE NAIL
26	B AND OR RIM JOIST TO JOIST	(3) 16d COMMON (3 1/2"x0.162")	END NAIL
27	BUILT-UP GIRDERS & BEAMS. 2" LUMBER LAYERS	10d BOX (3"x0.128")	24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(4) 16d BOX (3 1/2"x0.135")	AT EACH JOIST OR RAFTER, FACE NAIL
29	BRIDGING TO JOIST	(2) 10d (3 1/2"x0.128")	EACH END, TOE NAIL

FASTENERS:

NO.	BUILDING MATERIALS	NUMBERS AND TYPE OF FASTNER	SPACING OF FASTNERS	
			EDGES	INTERMEDIATE SUPPORTS
WOOD STRUCTURAL PANELS, SUB-FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING & PARTICLE BOARD WALL SHEATHING TO FRAMING				
30	3/8" - 1/2"	6d (2"x0.113") COMM0N NAIL (SUBFLOOR, WALL) (J)	6"	12" (g)
		8d (2 1/2"x0.131") COMM0N NAIL (ROOF)		
31	5/16" - 1/2"	6d (2"x0.113") COMM0N NAIL (SUBFLOOR, WALL)	6"	12" (g)
		8d (2 1/2"x0.131") COMM0N NAIL (ROOF)(F)		
32	19/32" - 1"	8d (2 1/2"x0.131") COMM0N NAIL	6"	12" (g)
33	1 1/8" - 1 1/4"	10d (3"x0.148") COMMON NAIL OR 8d (2 1/2"x0.131") DEFORMED NAIL	6"	12"
OTHER WALL SHEATHING (h)				
34	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1/2" GALVANIZED ROOFING NAIL. 7/16" CROWN OR 16 GAGE STAPLE. 1" CROWN & 1 1/4" LONG	3"	6"
35	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOFING NAIL. 7/16" CROWN OR 16 GAGE STAPLE. 1" CROWN & 1 1/2" LONG	3"	6"
36	1/2" GYPSUM SHEATHING (d)	1 1/2" GALVANIZED ROOFING NAIL OR 1 1/2" LONG GALVANIZED STAPLES, OR 1 1/4" SCREWS TYPE W OR S	7"	7"
37	1/2" GYPSUM SHEATHING (d)	1 3/4" GALVANIZED ROOFING NAIL OR 1 5/8" LONG GALVANIZED STAPLES, OR 1 5/8" SCREWS TYPE W OR S	7"	7"
WOOD STRUCTURAL PANELS, COMBINATION OF SUB-FLOOR UNDERLAYMENT TO FRAMING				
38	3/4" OR LESS	8d (2 1/2"x0.131") COMMON NAIL OR 6d (2"x0.120") DEFORMED NAIL	6"	12"
39	7/8" - 1"	8d (2 1/2"x0.131") COMMON NAIL OR 8d (2"x0.120") DEFORMED NAIL	6"	12"
40	1 1/8" - 1 1/4"	10d (3"x0.148") COMMON NAIL OR 8d (2 1/2"x0.120") DEFORMED NAIL	6"	12"

FASTNER SCHEDULE PER 2015 INTERNATIONAL RESIDENTIAL CODE

ABBREVIATIONS:

ARCH=	ARCHITECTURAL		
B.E.W=	BOTTOM EACH WAY		
BM=	BEAM		
BRG=	BEARING	COL=	
	COLUMN	CONC=	
	CONCRETE		
CONT=	CONTINUOUS	DBL=	
	DOUBLE	EA=	
	EACH	EE=	
	EACH END	EXP=	
	EXPANSION	EXT=	
	EXTERIOR	FDN=	
	FOUNDATION	FTG=	
	FOOTING	GT=	
	GIRDER TRUSS		
GDR=	HEADER		
INT=	INTERIOR		
INFO=	INFORMATION	J=	
	JACK STUD	K=	
	KING STUD		
MANUF=	MANUFACTURER	MIN=	
	MINIMUM	MAX=	
	MAXIMUM		
NTS=	NOT TO SCALE	OC=	
	ON CENTER	PLYWD=	
	PLYWOOD		
PT=	PRESSURE TREATED		
PA=	POST FROM ABOVE		
REQD=	REQUIRED		
SPF=	SPRUCE PINE FIR		
SP=	SOUTHERN PINE		
STL=	STEEL		
TYP=	TYPICAL		
W/=	WITH		
WD=	WOOD		
WWF=	WELDED WIRE FABRIC		
UNO=	UNLESS NOTED OTHERWISE		

WOOD SPECIES:

SPECIES		Fb	Ft (a)	Fv (a)	Fc ll (a)	Fc⊥ (b)	E	Emin
HEM FIR #2		850 psi	525 psi	150 psi	405 psi	1300 psi	1300000 psi	470000 psi
SPF #2		875 psi	450 psi	135 psi	425 psi	1150 psi	1400000 psi	510000 psi
THICKNESS	WIDTH	SOUTHERN PINE #2						
2" TO 4"	2" TO 4"	1050 psi	650 psi	175 psi	565 psi	1100 psi	1400000 psi	510000 psi
	5" TO 6"	1250 psi	725 psi	175 psi	565 psi	1600 psi	1600000 psi	580000 psi
	8"	1200 psi	650 psi	175 psi	565 psi	1600 psi	1600000 psi	580000 psi
	10"	1050 psi	575 psi	175 psi	565 psi	1500 psi	1600000 psi	580000 psi
	12"	975 psi	550 psi	175 psi	565 psi	1450 psi	1600000 psi	580000 psi
MICROLAM LVL (ML)		2600 psi	1555 psi	285 psi	2510 psi	750 psi	1900000 psi	965710 psi
PARALLAM PSL 1.8E		2400 psi	1755 psi	190 psi	2500 psi	425 psi	1800000 psi	914880 psi
PARALLAM 2.0E		2900 psi	2025 psi	290 psi	2900 psi	750 psi	2000000 psi	1016535 psi
TIMERSTRAND LSL 1.3E		1900 psi	1075 psi	400 psi	1400 psi	680 psi	1300000 psi	660750 psi
TIMERSTRAND LSL 1.55E		2325 psi	1070 psi	310 psi	2050 psi	800 psi	1550000 psi	787815 psi

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

REVISIONS

STRUCTURAL NOTES

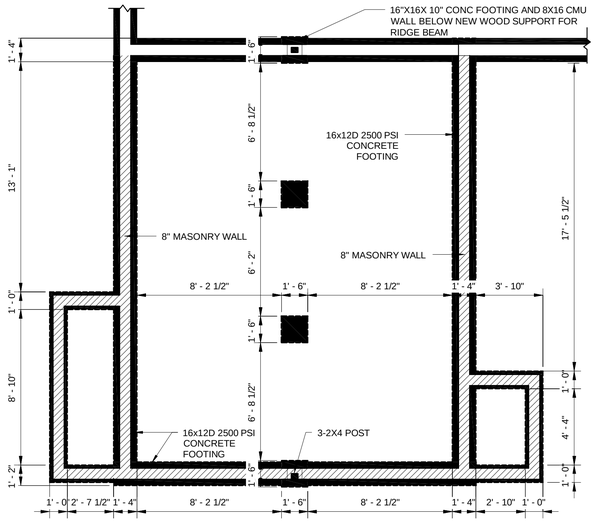
SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC

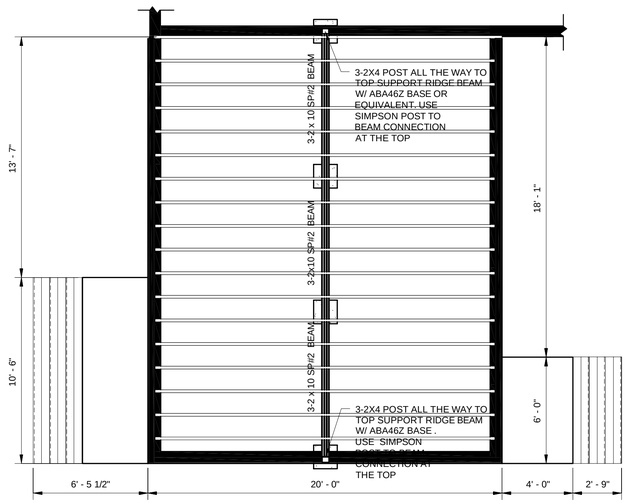
01/24/2021

EQUAGEN® ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DRI., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

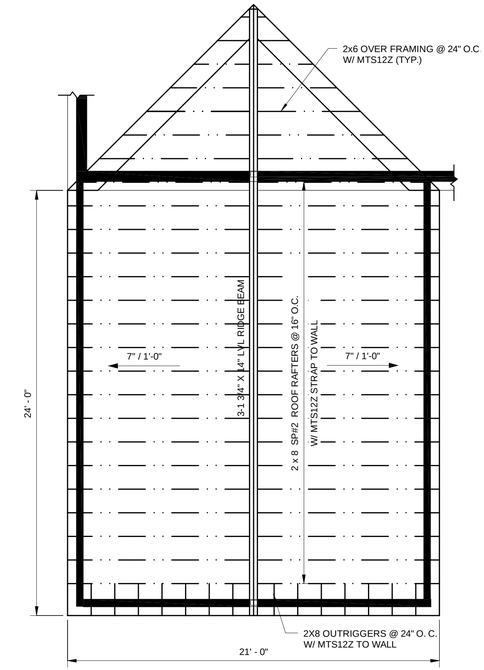
DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
S001	21–2005



1 FOUNDATION & STEMWALL PLAN STR
1/4" = 1'-0"



2 1ST FLOOR FRAMING PLAN
1/4" = 1'-0"



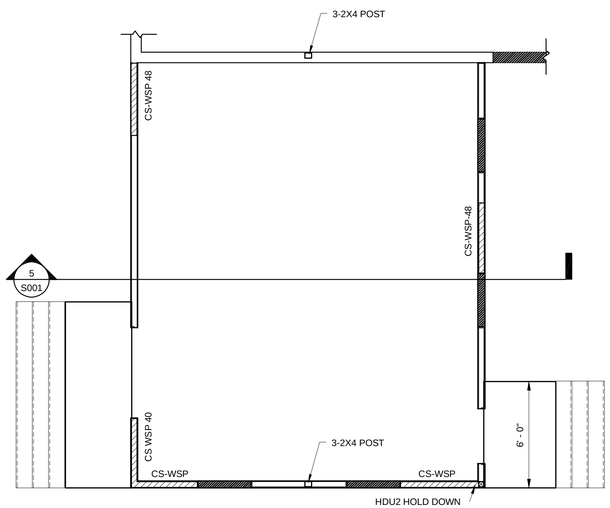
3 ROOF FRAMING PLAN
1/4" = 1'-0"

WALL BRACING PLAN NOTES:

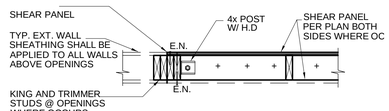
1. ▨ ON PLAN DENOTES THE LOCATION OF BRACED WALL PANELS. STUD WALL AT BRACED WALL PANEL LOCATIONS SHALL BE A MIN. OF 2x4 SPF #1/#2 AT 16" OC MAXIMUM, UNO. REFER TO SHEETS S4.0 FOR MORE INFO.
2. (-)———(-) ON PLAN DENOTES THE LOCATION OF BRACED WALL LINES. REFER TO SHEET S4.0 FOR MORE INFO.
3. BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR FRAMING PER SECTION R602.10.4.4 AND BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER R602.10.4.5.

GENERAL FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL FLOOR MEMBERS SHALL NOT BE DRILLED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN R502.8
2. WOOD STRUCTURAL PANELS USED FOR SUBFLOOR SHALL MEET THE REQUIREMENTS OF TABLE R503.2.1(1).
3. STUDS AND DOUBLE TOP PLATE SHALL NOT BE DRILLED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN R602.6
4. STRUCTURAL SHEATHING SHALL BE ATTACHED TO WALL STUDS PER TABLE R602.10.1

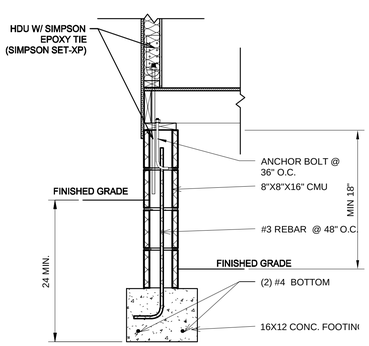


4 SHEAR WALL PLAN
1/4" = 1'-0"

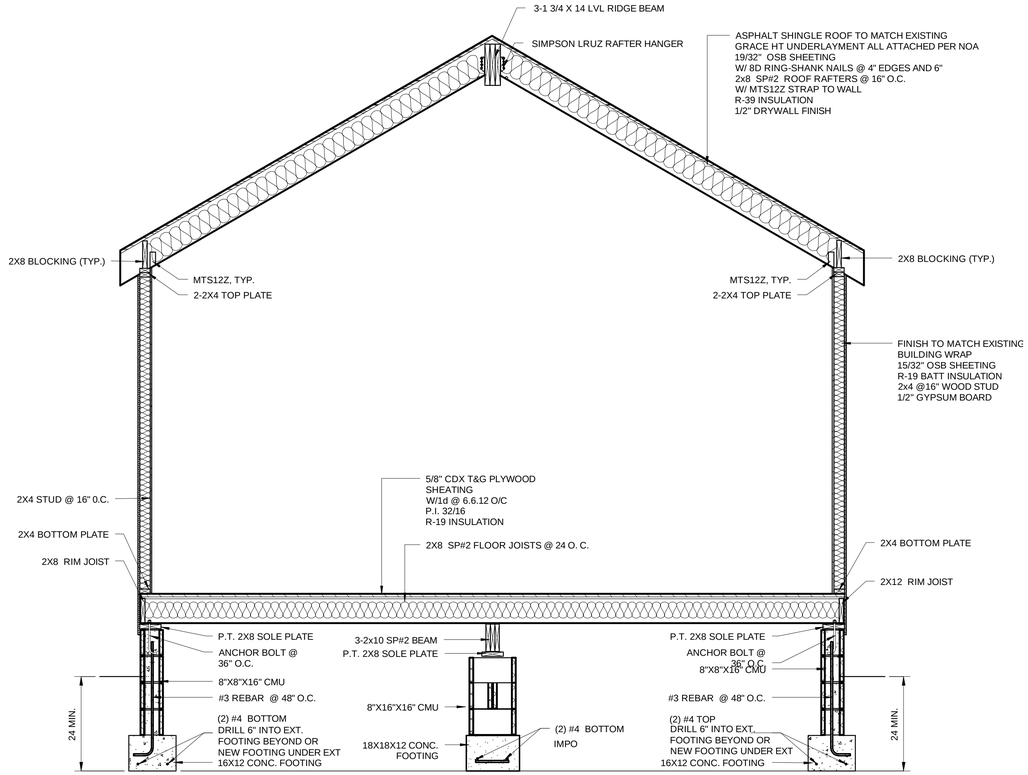


PLAN VIEW

MODEL	BOLT (ASTM A36)	D
HDU2	5/8" Dx12 THREADED ROD	8"
HDU4	5/8" Dx12 THREADED ROD	12"



6 HOLDOWN INSTALLATION
3/4" = 1'-0"



5 SECTION VIEW
1/2" = 1'-0"

NO.	DATE	DESCRIPTIONS
000	01/24/2021	Permit Submittal

REVISIONS

STRUCTURAL PLANS AND SECTIONS
SINGLE FAMILY HOUSE
272 Madison Ln
Cameron, NC, 28326

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042307 MOTI KC
01/24/2021

EQUAGEN ENGINEERS
FIRM LIC. # 1869
121 EDINBURGH SOUTH DRI., STE 103
CARY, NC 27511
PHONE:919.444.5442
EMAIL:MOTI.KC@EQUAGEN.COM

DRAWN BY:	DK
CHECKED BY:	MKC
DATE:	01/24/2021
SCALE:	AS SHOWN
S002	21–2005