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IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT, TO ALTER THESE PLANS IN ANY WAY, BY ACCEPTANCE AND USE OF THESE PLANS THE OWNER/ CONTRACTOR AGENT AGREES TO LIMIT THE LIABILITY OF EAGLE DESIGN ASSOCIATES AND EMPLOYEES DUE TO NEGLIGENCE OR ACTS OF ERROR SUCH THAT THE TOTAL AGGREGATE LIABILITY OF EAGLE DESIGN ASSOCIATES AND THE EMPLOYEES SHALL NOT EXCEED THE TOTAL FEE FOR SERVICES RENDERED ON THIS PROJECT.

FINISHING NOTES:

- ALL WALLS AND CEILINGS TO BE 1/2" GYPSUM WALL BOARD TAPED AND SPACKLED 3 COATS MINIMUM. USE MOISTURE RESISTANT WALL BOARD ON AREA SUBJECT TO MOISTURE.
- ALL CERAMIC TILE TO BE BACKED BY CEMENTITIOUS BACKER BOARD.
- ALL GLAZING TO BE INJEZ, CONSTRUCTED, TREATED OR COMBINED WITH OTHER MATERIALS TO MINIMIZE INJURY IN THE EVENT OF BREAKAGE. (R308)
- ALL CLOSETS TO RECEIVE VINYL COVERING AND HANG RODS UNLESS OTHERWISE NOTED.
- ALL BATHROOMS TO HAVE CERAMIC TILE FLOORS WITH A 6" CERAMIC TILE COVER BASE. PROVIDE A MARBLE SADDLE L DOORWAY THRESHOLD.
- ALL HANDRAILS TO CONFORM WITH CODE R311.7.8.

ROOFING/SIDING NOTES:

- ROOF COVERING MATERIALS ARE TO COMPLY WITH SECTIONS R902, R904 AND R905 AND ARE TO IDENTIFIED IN ACCORDANCE WITH R904.4. ROOF DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH R903.4. DRAWINGS AND DETAILS ARE TO BE SUBMITTED.
- UNDERLAYMENT OVER ASPHALT SHINGLES, CLAY & CONCRETE TILE, METAL ROOFING SHINGLES, SLATE & SLATE TYPY SHINGLES, WOOD SHAKES & METAL ROOFING PANELS TO COMPLY WITH SECTION R906.1.1. SELF SEALING FASTENERS AND FASTENER PATTERNS ARE TO COMPLY WITH R906.2 AND R905.2. DETAILS OF ASPHALT SHINGLE ROOFING INSTALLATIONS ARE TO BE SUBMITTED. FOR ROOF SLOPES OF 4:12, DOUBLE UNDERLAYMENT IS REQUIRED IN ACCORDANCE WITH TABLE R906.1.1(2). THE REQUIRED UNDERLAYMENT IS TO CONFORM WITH ASTM D3281, TYPE ONE OR ASTM D4861, TYPE ONE IN ACCORDANCE WITH R906.1.1.
- AN ICE BARRIER SHALL BE INSTALLED THAT IS WITHIN COMPLIANCE OF R906.1.2 OF THE 2021 IRC OF NYS. THE ICE BARRIER SHALL CONSIST OF NOT FEWER THAN TWO LAYERS OF UNDERLAYMENT CEMENTED TOGETHER, OR A SELF-ADHERING POLYMER-MODIFIED BITUMEN SHEET SHALL BE LAPPED UNDER THE UNDERLAYMENT & EXTEND FROM THE LOWEST EDGES OF ALL ROOF SURFACES TO A POINT NOT LESS THAN 24 INCHES INSIDE THE EXTERIOR WALL LINE OF THE BUILDING. IN THE CASE OF A ROOF WHOSE SLOPE IS 8:12 OR GREATER, THE ICE BARRIER SHALL ALSO BE APPLIED NOT LESS THAN 36 INCHES MEASURED ALONG THE ROOF SLOPE FROM THE EAVE EDGE OF THE BUILDING.
- FLASHING MATERIALS ARE TO BE CORROSION RESISTANT AND INSTALLED IN ACCORDANCE WITH R703.4, R903.2 AND R905.2.8.
- HOUSE WRAP MATERIAL OR BUILDING FELT AND ITS INSTALLATION ARE TO COMPLY WITH R703.2.
- WEATHER RESISTANT SIDING THICKNESS AND ATTACHMENT SHALL BE IN ACCORDANCE WITH TABLE 703.3(1). THE REQUIREMENTS OF 703.3 AND THE MANUFACTURES SPECIFICATIONS REGARDING ATTACHMENT OVER FOAM SHEATHING TO COMPLY WITH THE LIMITATIONS OF R703.15 & R703.17.

MEP COMPLIANCE STATEMENT:
 THE EXISTING HEATING, ELECTRICAL AND PLUMBING SYSTEMS ARE CAPABLE OF HANDLING THE IMPOSED LOADS OF THE PROPOSED ALTERATION. IF IT IS DETERMINED THAT ANY OF THESE EXISTING SYSTEMS ARE NOT CAPABLE, THEN IT WILL BE UPGRADED TO MEET COMPLIANCE.

MECHANICAL NOTES:

- HEATING SYSTEMS TO MAINTAIN 68°F INTERIOR @ 0°F EXTERIOR TEMPERATURE WITH A 15 MPH WIND VELOCITY.
- ALL BATH AND BATHROOM VENTS TO COMPLY WITH STATE CODES.
- ALL FIRE BOXES SHALL BE LINED WITH FIRE BRICK AS PER ASTM C106 PROVIDE EXTERIOR COMBUSTION AIR AS PER ENERGY CODE.
- FLUE LINING TO BE TERRACOTTA FOR FULL HEIGHT EXTENDING TRU chimney CAP ALTERNATE: PREFABRICATED INSULATED METAL CHIMNEY INSTALLED AS PER MANUFACTURER SPECIFICATIONS.
- ALL MECHANICAL WORK TO CONFORM TO NYS RESIDENTIAL CODE CHAPTERS 12 THROUGH 23.

ENERGY COMPLIANCE NOTES:

- EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C402.2.3(1), C403.2.3(2), 403.2.3(2)(A), 403.2.3(3), 403.2.3(4), 403.2.3(5), 403.2.3(7), 403.2.3(8) & 403.2.3(9) WHEN TESTED AND RATED IN ACCORDANCE WITH THE APPLICABLE TEST PROCEDURE.
- ALL CONSTRUCTION SHALL COMPLY WITH THE 2020 INTERNATIONAL ENERGY CONSERVATION CONSTRUCTION CODE. THE AUTHORITY HAVING JURISDICTION SHALL BE PERMITTED TO DETERMINE AN ENERGY EFFICIENCY PROGRAM TO EXCEED THE ENERGY EFFICIENCY RATIO BY THIS CODE.
- A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED. CERTIFICATE SHALL COMPLY WITH IFC 1101.14 (R601.3).
- ATTIC OR CRAWL SPACE ACCESS SHALL BE WEATHER STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES.
- INSTALLATION - THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE SHALL BE INSTALLED IN ACCORDANCE WITH THE CRITERIA LISTED IN TABLE 402.4.1.1 WHERE REGD BY CODE OFFICIAL. AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS & VERIFY COMPLIANCE.
- TESTING - BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED HAVING LESS THAN OR EQUAL TO 3 ACH50 IN C2, 4, 5, 6A. TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY.
- DUCTS - SUPPLY & RETURN DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8 @ 3" OR GREATER IN DIAMETER, AND R-6 @ DUCTS LESS THAN 3" IN DIAMETER.
- DUCT SEALING - DUCTS, AIR HANDLERS & FILTER BOXES SHALL BE SEALED.
- DUCT TESTING - DUCTS SHALL BE PRESSURE TESTED TO DETERMINE AIR LEAKAGE BY AN APPROVED THIRD PARTY.
- BUILDING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- MECHANICAL SYSTEM PIPING INSULATION CARRYING FLUIDS > 105°F OR < 55°F SHALL BE INSULATED WITH R-3 MINIMUM.
- MECHANICAL VENTILATION - SHALL MEET THE REQUIREMENTS OF THE IRC/IMC EQUIPMENT SIZING - PER ACCA MANUAL 5, BASED ON LOADS CALCULATED PER ACCA MANUAL JAS PROVIDED BY A THIRD PARTY HEAT RATER.
- LIGHTING - A MIN. OF 75% OF PERMANENTLY INSTALLED FIXTURES MUST HAVE HIGH EFFICIENCY LAMPS.
- ALL HVAC, PLUMBING & ELECTRICAL SYSTEMS SHALL MEET THE IRC CHAPTER 11 ENERGY EFFICIENCY, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SUBMIT IN DETAIL THE DESIGN, CALCULATIONS, DRAWINGS, WRITTEN STATEMENTS OF THE MECHANICAL AND ELECTRICAL SYSTEMS, HEATING SYSTEMS (NEW, EXISTING OR UPGRADED) STAMPED BY A PROFESSIONAL ENGINEER IF REGD BY THE OWNER OR BUILDING DEPT.
- ADDITIONS, ALTERATIONS OR RENOVATION SHALL COMPLY WITH IECC 2020. UNALTERED PORTIONS OF THE EXISTING BUILDING IS NOT REQUIRED TO COMPLY WITH THIS CODE.
- MINIMUM ONE PROGRAMMABLE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING & COOLING SYSTEM IN ACCORDANCE WITH SECTION N103 CONTROL SYSTEMS.
- ALL EXTERIOR WALLS/CORNERING JOIST SHALL BE AIR SEALED & INSULATED IN ACCORDANCE WITH TABLE R902.1.1 APPLY A FRESH LIME CAULK TO THE TOP & BOTTOM PLATE IMMEDIATELY PRIOR TO INSTALLING INTERIOR GYP. WALL BOARD.

INSULATION NOTES:

- INSULATION IN EXTERIOR WALLS AND CEILING OF ALL HEATED SPACES TO BE FIBERGLASS BATS WITH A CONTINUOUS VAPOR BARRIER FACING THE HEATED SPACE. PACK ALL SPACES AROUND THE OPENINGS (R302.1.1).
- INSULATION IN VAULTED CEILINGS TO BE INSTALLED AS TO MAINTAIN THE FREE PASSAGE OF AIR BETWEEN THE EXTERIOR FACE OF INSULATION AND THE INTERIOR FACE OF THE ROOF SHEATHING.
- ACOUSITCAL INSULATION TO BE PROVIDED IN WALLS, FLOORS AND CEILINGS AROUND ALL BATHROOMS, BEDROOMS AND MECHANICAL ROOMS.
- PROVIDE PERIMETER INSULATION AS PER CODE AT ALL FOUNDATION WALLS
- ALL FLASHINGS AS PER R703.4 AND R903.2
- ALL ROOF ASSEMBLIES TO COMPLY WITH R902, R903 AND R904.
- ROOFING NAILS AS PER R905.2.5 AND ASTM F1667 12 GAUGE SHANK WITH 3/8" HEAD & FASTENERS PER SHINGLE
- R-VALUES ARE DISPLAYED IN SECTIONS (SEE PLAN FOR SPECIFIC VALUES)
- MOISTURE VAPOR RETARDERS ARE TO BE INSTALLED ON THE WARM - IN WINTER SIDE OF INSULATION IN WALL WALLS, FLOORS, ROOFS AND CEILING IN ACCORDANCE WITH SECTION R702.7.
- INSULATION MATERIAL IS TO COMPLY WITH SECTION R902.1.1 AND IS TO HAVE A FLEAM SPREAD INDEX NOT TO EXCEED 25 WITH A SMOKE DEVELOPED INDEX NOT TO EXCEED 450. TESTING METHODS MUST COMPLY WITH ASTM E84 STANDARD. ALL EXPOSED INSULATION ON ATTIC FLOORS ARE TO HAVE MINIMUM CRITICAL RADIANT FLUX OF 12 WATTS PER SQUARE METER. TESTING TO BE CARRIED OUT AS PER ASTM E970 STANDARD. EXTERIOR INSULATED FINISH SYSTEM TO COMPLY WITH R703.9.

PLUMBING NOTES:

- ALL PIPING, JOINTS, SUPPORTS AND CLEAN OUTS TO CONFORM TO LOCAL CODE REQUIREMENTS.
- ALL PLUMBING FIXTURES TO BE VENTED AND TRAPPED.
- PROVIDE SHUT OFF VALVES ON ALL SUPPLY LINES AT ALL FIXTURES.
- INSULATE ALL SUPPLY LINES.
- PROVIDE TWO FROST FREE HOSE BIBS MINIMUM.
- ALL FIXTURES TO BE KOHLER, AMERICAN STANDARD, OR APPROVED EQUAL. FURNISHED AND INSTALLED BY CONTRACTOR.
- PLUMBING CONTRACTOR TO SUPPLY AND INSTALL 40 GALLON HOT WATER HEATER.
- ALL PLUMBING WORK TO CONFORM TO NYS RESIDENTIAL CODE CHAPTERS 25 THROUGH 33.

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK TO BE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRIC CODE, LOCAL MUNICIPALITIES, NFPA 70-2014 AND STATE AUTHORITIES HAVING JURISDICTION. CONTRACTORS SHALL PAY FOR AND OBTAIN AN UNDERWRITERS CERTIFICATE.
- CONTRACTOR TO VERIFY ADEQUACY OF EXISTING SERVICE AT EXISTING PANEL BASE BID OR 200 AMP SERVICE FOR NEW WORK.
- ALL WIRING TO BE COLOR CODED 14 AWG COPPER.
- CONVENIENT OUTLETS TO BE 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER OUTLETS AS PER CODE.
- ELECTRICAL CONTRACTOR TO PROVIDE HOOK UPS FOR HEATING AND AIR CONDITIONING SYSTEMS.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES.
- ALL OUTLETS, SWITCHED, ETC., TO BE AS MANUFACTURED BY LUTRON DESIGNER SERIES SKYLARK DECORA OR APPROVED EQUAL.
- PROVIDE 2 EXTERIOR WATER PROOF OUTLETS ON NEW WORK.
- PROVIDE SINGLE STATION ALARM DETECTION DEVICE INSTALLED IN CONFORMANCE WITH SECTION R314 AND AHJ02.3 ON OR NEAR THE CEILING ADJACENT TO ALL SLEEPING SPACES ON EACH FLOOR LEVEL. UNIT TO DETECT FIRE, SMOKE AND CARBON MONOXIDE. ALL DETECTORS TO BE INTERCONNECTED.
- ALL ELECTRICAL WORK TO CONFORM TO NYS RESIDENTIAL CODE CHAPTERS 34 THROUGH 43.

EXCAVATION NOTES:

- EXCAVATION CONTRACTOR TO EXCAVATE TRUE TO LINES AND GRADES DOWN TO SPECIFIED LEVELS.
- ALL TOP SOIL TO BE STOCK PILED FOR FUTURE USE. ALL GOOD MATERIAL NEEDED FOR BACK FILL TO BE STOCK PILED SEPARATELY. EXCESS AND UNACCEPTABLE MATERIAL TO BE LEGALLY REMOVED FROM THE SITE.
- ALL BACK FILL TO BE PLACED IN 12" LIFTS AND COMPACTED LAYER BY LAYER TO 95 PERCENT PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557.
- BACKFILL AS PER CODE R404.1.7

ROUGH CARPENTRY NOTES:

- ALL LUMBER SHALL BE DOUGLAS FIR #1 OR BETTER, WITH AN EXTREME FIBER STRESS (F_v) OF 850 PSl MINIMUM.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED UNLESS OTHERWISE NOTED. (R317)
- THE ENTIRE WORK SHALL BE ACCURATELY FRAMED PLUMB, LEVEL AND TRUE BRACED AND ANCHORED TOGETHER TO FORM A RIGID STRUCTURE. TO ENSURE EVEN SETTLEMENT AND SHRINKAGE THROUGHOUT.
- ANCHOR BOLTS TO BE 3/8" x 12" LONG WITH 3" HOOK AND 3"x3" WASHER SPACE 36" O.C. MAXIMUM FOR 6" END ZONES, AND 48" O.C. FOR INTERIOR ZONES. PROVIDE TWO BOLTS AT EACH CORNER SPACED 1'-0" APART WITHIN 6" x 12" OF CORNER & PLATE ENDS WITH MINIMUM OF 7" EMBEDMENT IN POURED CONCRETE & 15" IN MASONRY BLOCK. FILL TOP TWO COURSES SOLID IN ACCORDANCE WITH WOOD FRAME CONSTRUCTION MANUAL 3.2.1.7 TABLE 3.2, 3.2A, 3.2B, 3.3, & 3.3A
- ALL NAILS, BOLTS, JOIST HANGERS AND FRAMING CONNECTORS TO BE HOT DIPPED GALVANIZED. ALL FLUSH CONNECTIONS TO BE SIMPSON STRONG TIE.
- ALL JOISTS, HEADERS, BEAMS AND RAFTERS TO HAVE 2" MINIMUM BEARING AT EACH END.
- FLOOR JOISTS SHALL BE BRIDGED AT 8' O.C.
- ALL STRUCTURAL LUMBER SHALL BE KEPT 2" CLEAR OF CHIMNEYS AND FIRE BOXES.
- HEADERS, TRIMMERS AND JOISTS UNDER PARTITIONS TO BE DOUBLED. BLOCK BETWEEN JOISTS UNDER PARTITIONS. STUD WALLS TO BE BLOCKED SOLID AT MIDPOINT.
- PROVIDE HEADERS OVER ALL OPENINGS EQUAL TO FULL WIDTH OF FRAMING. ALL WALL OPENINGS SHALL HAVE DOUBLE STUD JAMS. MINIMUM HEADER SIZE TO BE (2) 2"x6" FOR OPENINGS UP TO 3'-0" WIDE AND/OR (2) 2"x6" FOR OPENINGS UP TO 3'-0" WIDE UNLESS OTHERWISE NOTED.
- ALL EXTERIOR WALL CORNERS TO HAVE FOUR STUDS MINIMUM NAILED WITH 16d @ 12" O.C.
- ALL TOP PLATES TO BE DOUBLED WITH A 48" MINIMUM LAP SPICE BUT JOINTS TO OCCUR OVER A STUD NAIL WITH 16d @ 12" O.C. (WFCM TABLE 3.2.0)
- PROVIDE 2" CLEARANCE FROM TOP OF ALL INTERIOR NONBEARING PARTITIONS TO UNDERSIDE OF FRAMING.
- ALL PLYWOOD USED STRUCTURALLY SHALL MEET THE PERFORMANCE STANDARDS FOR TYPES AND SPECIES AS IDENTIFIED BY APPROVAL AGENCIES STAMP.
- ALL SHEATHING SHALL BE 3/4" DOUGLAS FIR EXTERIOR GRADE PLYWOOD NAILED AS PER NAILING SCHEDULE PROVIDED TO INTERIOR INTERMEDIATE BLOCKING POINTS. COVER SHEATHING WITH AIR INFILTRATION BARRIER PROPERLY TAPED AND SEALED.
- PROVIDE COLLAR BEAMS AT ROOF RAFTERS AT 48" O.C.
- STRUCTURAL ENGINEERED LUMBER TO BE AS MANUFACTURED BY TRUSS JOIST MACMILLAN OR APPROVED EQUAL.
- PROVIDE FIRE BLOCKING AS PER R602.8 & 302.13 IN ACCORDANCE WITH SECTION R302.1 (FIRE BLOCKING), DRAFT STOPPING AS PER 502.12 IN ACCORDANCE R302.12 (DRAFT STOPPING).
- OWNER TO SELECT FINISH MATERIALS, KITCHEN AND BATHROOM FIXTURES, TYPE AND LOCATION OF LIGHTING FIXTURES SWITCHED AND TELEPHONE JACKS.
- THE OWNER IS RESPONSIBLE OF OBTAINING THE FINAL SURVEY AND ALL COSTS FOR BUILDING DEPARTMENT REQUIREMENTS.
- THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUE, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE ARCHITECT HAS NOT BEEN RETAINED FOR ANY FIELD SUPERVISION OR INSPECTIONS.
- DOE NOT SCALE THESE DRAWINGS. UTILIZE DIMENSIONS ONLY. USE FIELD DIMENSIONS IN COORDINATION WITH PLANNED DIMENSIONS.

CONCRETE NOTES:

- SOIL BEARING CAPACITY IS ASSUMED TO BE 3000 PSF (TABLE R401.4.1) SHOULD POORER SOIL CONDITIONS BE ENCOUNTERED ACTUAL BEARING CAPACITY SHALL BE DETERMINED AND FOOTINGS ARE TO BE REDESIGNED.
- ALL CONCRETE WORK TO CONFORM TO LATEST ACI CODE.
- ALL CONCRETE TO INCLUDE GARAGE SLABS AND CONCRETE EXPOSED TO WEATHERING SHALL BE 3000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED. ALL EXPOSED CONCRETE SHALL BE AIR ENTRAINED (TABLE R402.2).
- ADEQUATE PROTECTION TO BE MADE FOR CONCRETE AND MASONRY WORK AGAINST FREEZING. NO CONCRETE OR MASONRY SHALL BE PERFORMED IN TEMPERATURES BELOW 40°F. NO CONCRETE SHALL BE CAST ON FROZEN GROUND.
- ADDITIONS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- ALL FOOTING TO BE CAST CONCRETE AND REST ON VIRGIN SOIL 3'-0" MINIMUM BELOW GRADE. STEP AS REQUIRED (R403.1.4).
- ALL FOOTING TO HAVE A PROJECTION AT EACH SIDE OF THE WALL ABOVE. PROVIDE 3#5 CONTINUOUS REBARS UNLESS OTHERWISE NOTED (R403.1.3.5) - PROJECTION NOT TO EXCEED THE FOOTING THICKNESS.
- PROVIDE 2"x4" MINIMUM KEY WAY BETWEEN FOOTING AND FOUNDATION WALL (R403.1.1).
- WALL FORMS TO REMAIN IN PLACE THREE DAYS MINIMUM.
- CONCRETE FOUNDATION WALLS SHALL BE CAST MONOLITHIC NO HORIZONTAL JOINTS SHALL BE PERMITTED SHOULD A BREAK IN CASTING BE REQUIRED IT SHALL BE VERTICAL AND THE SURFACE SHALL BE PREPARED PRIOR TO THE NEXT CAST.
- ALL SPECIFIED FASTENERS TO BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS. INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL OR FINISH MAY CAUSE THE CONNECTION TO FAIL. 16d COMMON NAILS CAN NOT BE REPLACED BY 16d SINKERS UNLESS OTHERWISE NOTED.
- CONCRETE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING FOR ALL WALLS AS REQUIRED TO EXIST WIND AND CONSTRUCTION LOADS.
- THE EXTERIOR SURFACE OF ALL FOUNDATION WALLS SHALL BE DAMPROOFED.
- ANCHOR BOLTS TO BE 3/8" x 12" LONG WITH 3" HOOK AND 3"x3" WASHER SPACE 36" O.C. MAXIMUM FOR 6" END ZONES, AND 48" O.C. FOR INTERIOR ZONES. PROVIDE TWO BOLTS AT EACH CORNER SPACED 1'-0" APART WITHIN 6" x 12" OF CORNER & PLATE ENDS WITH MINIMUM OF 7" EMBEDMENT IN POURED CONCRETE & 15" IN MASONRY BLOCK. FILL TOP TWO COURSES SOLID IN ACCORDANCE WITH WOOD FRAME CONSTRUCTION MANUAL 3.2.1.7 TABLE 3.2A
- ALL SLABS ON GRADE SHALL REST ON A 6" COMPACTED LAYER OF CLEAN SAND OR GRAVEL. INSTALL A 6 MIL. POLYETHYLENE VAPOR BARRIER PRIOR TO CASTING SLAB.
- ALL SLABS ON GRADE TO HAVE 6" x 4" x 14" W/4 MIN REINFORCING CONFORMING TO ASTM A185. SEE R506 RESIDENTIAL CODE SECTION
- PROVIDE SAWS OR KEYED AND FORMED CONJOINT JOINTS FOR SLAB AND WALLS ON GRADE AT 20' O.C. MAXIMUM IN BOTH DIRECTIONS.
- STEP FOOTINGS DOWN AS REQUIRED. MAXIMUM STEP FOOTINGS SHALL BE ONE VERTICALLY TO TWO HORIZONTALLY WHERE ELEVATIONS CHANGE.
- CRAWL SPACE VENTS, IN ACCORDANCE WITH R408.1 ARE TO BE LOCATED WITHIN 3'-0" OF EACH CORNER OF THE BUILDING.
- ACCESS TO CRAWL SPACE AS PER R408.4

BUILDING PLAN REVIEW NOTES:

TOWN BUILDING PLAN EXAMINER SHALL REVIEW THE EXISTING DOCUMENT FOR MINIMUM ACCEPTABLE PLANS. SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE WITH THAT CODE. TO SEAL AND SIGNATURE OF THE DESIGN PROFESSIONAL HAS BEEN INTERRUPTED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEES BELIEF AND INFORMATION, THE WORK IN THE DOCUMENT IS:

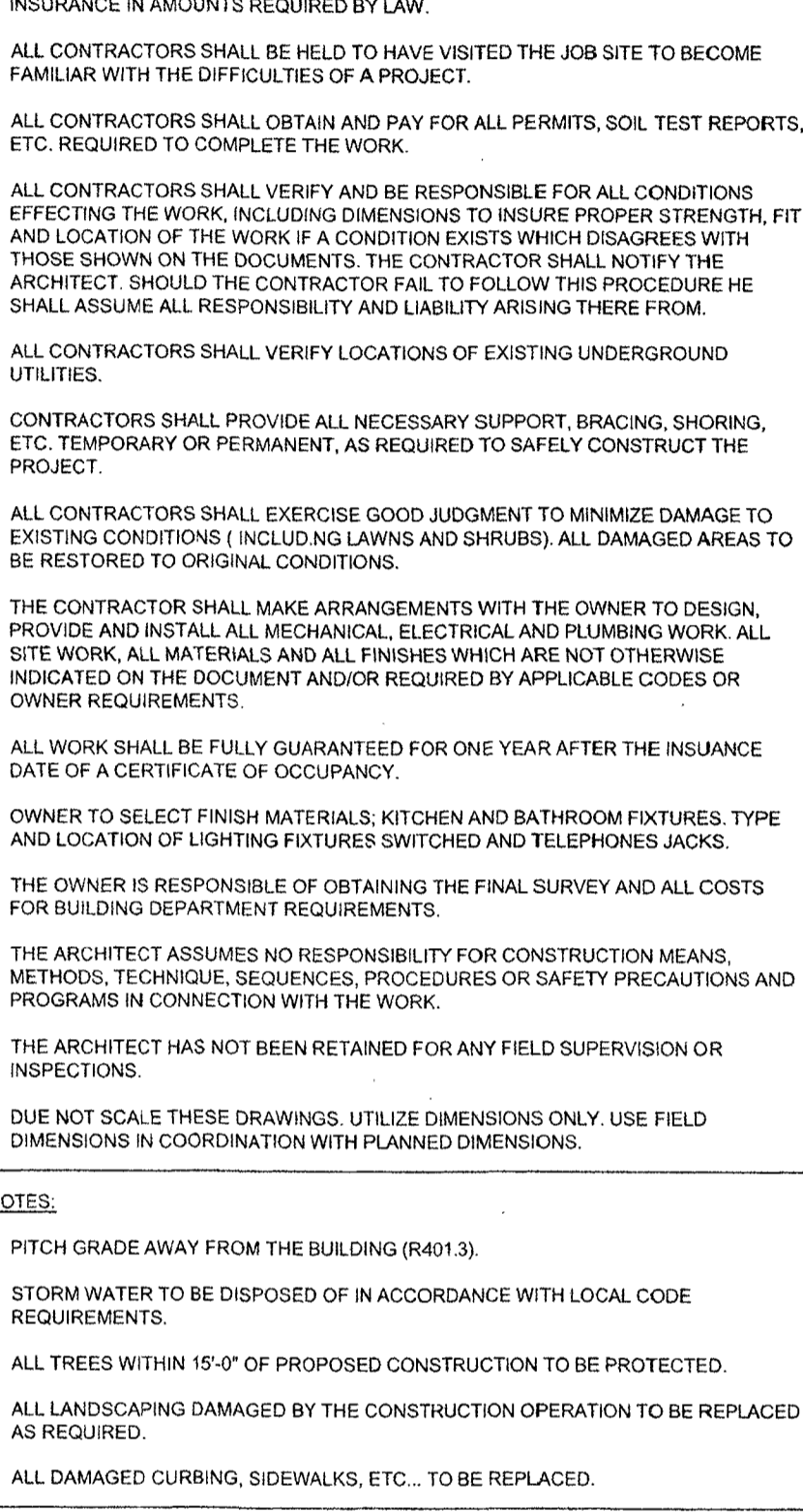
- ACCURATE
- CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF SUBMISSION.
- CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH AND PUBLIC WELFARE.
- IS THE RESPONSIBILITY OF THE LICENSEE.

GENERAL NOTES:

- IT IS THE INTENTION OF THESE DOCUMENTS TO PROVIDE FOR THE CONSTRUCTION OF A RESIDENCE OR RESIDENTIAL ADDITION INCLUDING EVERY ITEM REQUIRED TO COMPLETE THE WORK. ALL DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT.
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST RULES AND REGULATIONS OF THE NEW YORK STATE BUILDING CODE AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE WORK. IT SHALL NOT BE CONSTRUED TO MEAN THAT ANY MORE STRINGENT REQUIREMENTS AS SET FORTH BY THESE DOCUMENTS MAY BE MODIFIED.
- ALL MATERIALS AND CONSTRUCTION SHALL BE NEW IN STRICT COMPLIANCE WITH THE LATEST STANDARDS OF THE VARIOUS TRADE ORGANIZATIONS (AIA, AISC, ETC.).
- ALL MATERIALS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS.
- ALL CONTRACTORS TO MAINTAIN WORKMANS COMPENSATION AND DISABILITY INSURANCE IN AMOUNTS REQUIRED BY LAW.
- ALL CONTRACTORS SHALL BE HELD TO HAVE VISITED THE JOB SITE TO BECOME FAMILIAR WITH THE DIFFICULTIES OF A PROJECT.
- ALL CONTRACTORS SHALL OBTAIN AND PAY FOR ALL PERMITS, SOIL TEST REPORTS, ETC. REQUIRED TO COMPLETE THE WORK.
- ALL CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS EFFECTING THE WORK, INCLUDING DIMENSIONS TO INSURE PROPER STRENGTH, FIT AND LOCATION OF THE WORK IF A CONDITION EXISTS WHICH DISAGREES WITH THOSE SHOWN ON THE DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SHOULD THE CONTRACTOR FAIL TO FOLLOW THIS PROCEDURE. HE SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY ARISING THEREFROM.
- ALL CONTRACTORS SHALL VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
- CONTRACTORS SHALL PROVIDE ALL NECESSARY SUPPORT, BRACING, SHORING, ETC. TEMPORARY OR PERMANENT, AS REQUIRED TO SAFELY CONSTRUCT THE PROJECT.
- ALL CONTRACTORS SHALL EXERCISE GOOD JUDGMENT TO MINIMIZE DAMAGE TO EXISTING CONDITIONS (INCLUDING LAWN AND SHRUBS). ALL DAMAGED AREAS TO BE RESTORED TO ORIGINAL CONDITIONS.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO DESIGN, PROVIDE AND INSTALL ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK. ALL SITE WORK, ALL MATERIALS AND ALL FINISHES WHICH ARE NOT OTHERWISE INDICATED ON THE DOCUMENT AND/OR REQUIRED BY APPLICABLE CODES OR OWNER REQUIREMENTS.
- ALL WORK SHALL BE FULLY GUARANTEED FOR ONE YEAR AFTER THE INSURANCE DATE OF A CERTIFICATE OF OCCUPANCY.
- OWNER TO SELECT FINISH MATERIALS, KITCHEN AND BATHROOM FIXTURES, TYPE AND LOCATION OF LIGHTING FIXTURES SWITCHED AND TELEPHONE JACKS.
- THE OWNER IS RESPONSIBLE OF OBTAINING THE FINAL SURVEY AND ALL COSTS FOR BUILDING DEPARTMENT REQUIREMENTS.
- THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUE, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE ARCHITECT HAS NOT BEEN RETAINED FOR ANY FIELD SUPERVISION OR INSPECTIONS.
- DOE NOT SCALE THESE DRAWINGS. UTILIZE DIMENSIONS ONLY. USE FIELD DIMENSIONS IN COORDINATION WITH PLANNED DIMENSIONS.

SITE NOTES:

- PITCH GRADE AWAY FROM THE BUILDING (R401.3).
- STORM WATER TO BE DISPOSED OF IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- ALL TREES WITHIN 15'-0" OF PROPOSED CONSTRUCTION TO BE PROTECTED.
- ALL LANDSCAPING DAMAGED BY THE CONSTRUCTION OPERATION TO BE REPLACED AS REQUIRED.
- ALL DAMAGED CURBING, SIDEWALKS, ETC., TO BE REPLACED.



WINDOW AND DOOR NOTES:

- ALL WINDOWS AND SLIDING GLASS DOORS TO BE VINYL CLAD WOOD WITH INSULATED GLASS, SCREENS AND LOCKS AS MANUFACTURED BY ANDERSON OR APPROVED EQUAL. SIZES AND TYPES AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.
- ALL EXTERIOR DOORS TO BE INSULATED METAL AS MANUFACTURED BY BENCHMARK, STANLEY, OR APPROVED EQUAL. SIZES AND TYPES AS INDICATED ON PLANS. FULLY WEATHER STRIPPED, LOCKS, UNLESS OTHERWISE NOTED.
- ALL INTERIOR DOORS TO BE 1 1/2" THICK, HOLLOW CORE, FLUSH BIRCH, U.O.M. ALL DOOR JAMBS AND BUCKS TO BE CLEAR PINE.

GUARDS & WINDOW FALL PROTECTION:

R312.1 GUARDS - GUARDS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.1.1 THROUGH R312.1.4.

R312.1.1 WHERE REQUIRED - GUARDS REQUIRED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS & LANDINGS, THAT ARE LOCATED MORE THAN 30 INCHES VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. INSECT SCREENING IS NOT AN ACCEPTABLE GUARD.

R312.1.2 HEIGHT - REQUIRED GUARDS AS DESCRIBED ABOVE SHALL NOT BE LESS THAN 36 INCHES IN HEIGHT MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE OR THE LINE CONNECTING THE LEADING EDGES OF THE TREADS.

EXCEPTIONS:
 1. GUARDS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT OF 34 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.
 2. WHERE THE TOP OF THE GUARD SERVES AS A HANDRAIL ON THE OPEN SIDES OF THE STAIRS, THE TOP OF THE GUARD SHALL BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES AS MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

R312.1.3 OPENING LIMITATIONS - REQUIRED GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.

EXCEPTIONS:
 1. THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF A STAIR, FORMED BY A RISER, TREAD & BOTTOM RAIL OF A GUARD, SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER.
 2. GUARDS ON THE OPEN SIDE OF STAIRS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" DIAMETER.

R312.1.4 EXTERIOR PLASTIC COMPOSITE GUARDS - PLASTIC COMPOSITE EXTERIOR GUARDS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R317.4.

R312.2 WINDOW FALL PROTECTION - WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.2.1 & R312.2.2.

EGRESS WINDOW NOTES:

R310.2.1 MINIMUM OPENING AREA - ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24 INCHES AND NET CLEAR WIDTH SHALL NOT BE LESS THAN 20 INCHES.

EXCEPTION: GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET.

R310.1.1 OPERATIONAL CONSTRAINTS - EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

R310.2.2 WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NO MORE THAN 44 INCHES ABOVE THE FLOOR.

ALL WINDOWS TO BE SUPPLIED BY THE FOLLOWING MANUFACTURERS AS NOTED ON PLAN:
 ANDERSON WINDOWS, INC.
 100 FOURTH AVENUE NORTH
 BAYPORT, MN 55009-1096
 CONFORMS TO AAMA/NWDA 101/S. 2-97

CAPITOL WINDOWS AND DOORS
 81 HOME PRODUCTS, INC.
 650 W. MARKET STREET
 P.O. BOX 379
 GRANT, PA 17030-0370
 CONFORMS TO AAMA/NWDA 101/S. 2-97

ALL WINDOWS IN PLANS TO HAVE A RO. OF 6" - 10" TO BOTTOM OF HEADER UNLESS OTHERWISE NOTED

MAILING SCHEDULE (WFCM 2018) - COMMON NAILS
 WFCM TABLE 3.1, 3.2A, 3.4A, 3.5A, 3.6A, 3.9A, 3.9B

- ROOF FRAMING			
- RAFTER TO TOP PLATE (TOE NAILED).....	3-8d	PER RAFTER	
- CEILING JOIST TO TOP PLATE (TOE NAILED).....	3-8d	PER JOIST	
- CEILING JOISTS TO PARALLEL RAFTER (FACE NAILED).....	7-16d	EACH LAP	
- CEILING JOISTS LAPS OVER PARTITIONS (FACE NAILED).....	7-16d	EACH LAP	
- COLLAR TIE TO RAFTER (FACE NAILED).....	2-8d	PER TIE	
- BLOCKING TO RAFTER (TOE NAILED).....	2-8d	EACH END	
- RIM BOARD TO RAFTER (END NAILED).....	2-16d	EACH END	
- WALL FRAMING			
- TOP PLATE TO TOP PLATE (FACE NAILED).....	2-16d	PER FOOT	
- TOP PLATES AT INTERSECTIONS (FACE NAILED).....	4-16d	PER JOINTS	
- STUD TO STUD (FACE NAILED).....	2-16d	24" O.C.	
- HEADER TO HEADER (FACE NAILED).....	16d	16" O.C. @ EDGES	
- TOP OR BOTTOM PLATE TO STUD (END NAILED).....	2-16d	PER STUD	
- BOTTOM PLATE TO FLOOR JOISTS, BAND JOIST, END JOIST OR BLOCKING (FACE NAILED).....	2-16d	PER FOOT	
- FLOOR FRAMING			
- JOISTS TO SILL, TOP PLATE OR GIRDER (TOE NAILED).....	4-8d	PER JOIST	
- BRIDGING TO JOIST (TOE NAILED).....	2-8d	EACH END	
- BLOCKING TO JOIST (TOE NAILED) OR 2x4	2-8d	EACH END	
- BLOCKING TO SILL OR TOP PLATE (TOE NAILED).....	3-16d	EACH JOIST	
- LEDGER STRIP TO BEAM (FACE NAILED).....	3-16d	EACH JOIST	
- JOIST TO LEDGER TO BEAM (TOE NAILED).....	3-8d	PER JOIST	
- BAND JOIST TO JOIST (END NAILED).....	3-16d	PER JOIST	
- BAND JOIST TO SILL OR TOP PLATE (TOE NAILED).....	2-16d	PER FOOT	
- ROOF SHEATHING			
- STRUCTURAL PANELS	4"	GABLE OVERHANG	
- TYPICAL WALL.....	8d	12" FLOOR	
- STRUCTURAL PANELS FOR 4'-0" AROUND WALL PERIMETER.....	8d	6" EDGE	
		12" FLOOR	
- DIAGONAL BOARD SHEATHING			
1" x 6" OR 1" x 8"	2-8d	PER SUPPORT	
1" x 10" OR WIDER.....	3-8d	PER SUPPORT	
- CEILING SHEATHING			
- GYPSUM WALL BOARD.....	5d COOLERS	7" EDGE	
		10" FLOOR	
- WALL SHEATHING			
- STRUCTURAL PANELS TYPICAL WALLS.....	8d	6" EDGE	
		12" FLOOR	
- STRUCTURAL PANELS FOR 4'-0" AROUND WALL PERIMETER.....	8d	6" EDGE	
		12" FLOOR	
- FIBERBOARD PANELS			
3" PANEL (0.120x1 1/2" LONG x 7/8" HEAD)	11 GALVANIZED ROOFING	3" EDGE	
		6" FLOOR	
5" PANELS (0.120x1 1/2" LONG x 3/4" HEAD)	11 GALVANIZED ROOFING	3" EDGE	
		6" FLOOR	
- GYPSUM WALL BOARD.....	5d COOLER	7" EDGE	
		10" FLOOR	
- HARDOARD.....	8d	6" EDGE	
		12" EDGE	
- PARTICLE BOARDS.....	8d	SEE MANUFACTURE	
- DIAGONAL BOARD SHEATHING			
1" x 6" OR 1" x 8"	2-8d	PER SUPPORT	
1" x 10" OR WIDER.....	3-8d	PER SUPPORT	
- FLOOR SHEATHING			
- STRUCTURAL PANELS OR LESS.....	8d	6" EDGE	
		12" FLOOR	
- GREATER THAN 1".....	10d	6" EDGE	
		12" FLOOR	
- DIAGONAL BOARD SHEATHING			
1" x 6" OR 1" x 8"	2-8d	PER SUPPORT	
1" x 10" OR WIDER.....	3-8d	PER SUPPORT	

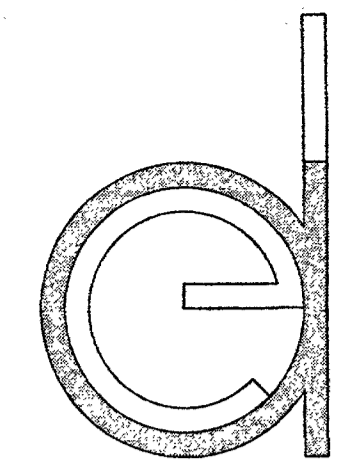
ALLOWABLE DEFLECTIONS (TABLE R301.7)

- RAFTERS WITH SLOPES GREATER THAN 1/4" - L/180
 - UNFINISHED CEILINGS
 - INTERIOR WALLS AND PARTITIONS..... L/180
 - FLOORS AND PLASTERED CEILINGS..... L/360
 - ALL OTHER STRUCTURAL MEMBERS..... L/240
 - EXTERIOR WALLS WITH PLASTER OR STUCCO FINISH..... L/600
 - EXTERIOR WALL - BRITTLE FINISHES..... L/240
 - EXTERIOR WALL - FLEXIBLE FINISHES..... L/360

WINDOW OPENING PROTECTION - REMOVABLE SHUTTERS (R301.2.1.2)
 - 1/2" WOOD PRE-CUT TO COVER GLAZED OPENINGS WITH ATTACHMENT HARDWARE (2" x 8" WOOD SCREWS @ 16" O.C.)
 - EACH SHUTTER TO BE LABELED FOR THE SPECIFIC WINDOW IT IS TO PROTECT

DESIGN CRITERIA - UP-LIFT - WOOD FRAME CONSTRUCTION MANUAL 3.2.2
 - 1/2" x 20" GAUGE STRAP
 - ROOF TO WALL CONNECTION: WFCM SECTION 3.2.2.1
 - WALL TO WALL CONNECTION: WFCM SECTION 3.2.2.2
 - WALL TO FOUNDATION CONNECTION: WFCM SECTION 3.2.2.3
 - RAFTER TO RAFTER OVER RIDGE: WFCM SECTION 3.2.8

- SECTION 3.1.7.1 - WALL ASSEMBLY OR SILL PLATE TO FOUNDATION
 SILL PLATES OR WALL BOTTOM PLATES SHALL BE ANCHORED TO THE FOUNDATION SYSTEM TO RESIST LATERAL & SHEAR LOADS FROM WIND IN ACCORDANCE WITH THE



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 924 NEWBRIDGE ROAD NORTH BELLMOORE, NY 11710
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IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT, TO ALTER THESE PLANS IN ANY WAY. BY ACCEPTANCE AND USE OF THESE PLANS THE OWNER CONTRACTOR AGENT AGREES TO LIMIT THE LIABILITY OF EAGLE DESIGN ASSOCIATES AND EMPLOYEES DUE TO NEGLIGENCE OR ACTS OF ERROR SUCH THAT THE TOTAL AGGREGATE LIABILITY OF EAGLE DESIGN ASSOCIATES AND THE EMPLOYEES SHALL NOT EXCEED THE TOTAL FEE FOR SERVICES RENDERED ON THIS PROJECT.

417 WEST ST
 GREENPORT NY 11944

TABLE R301.2(1)

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD ¹	WIND DESIGN SPEED ²	WIND DESIGN EFFECTS ³		WIND Borne DEBRIS ZONE ⁴	SERVIC CATEGORY ⁵	SUBJECT TO DAMAGE FROM WEATHER ⁶			FLOOD HAZARD ⁷	AIR FREEZING INDEX ⁸	MEAN ANNUAL TEMP ⁹		
		TOPGRAPHIC REGION	WIND REGION			SEVERE	MODERATE	TEMP.					
20	130	YES	NO	YES 1 MILE	B	SEVERE	3-6" (36 INCHES)	MODERATE TO HEAVY	11	YES	NO	452	52.7

Table 3.1 Nailing Schedule

Joint Description	Number of Common Nails	Number of Box Nails	Nail Spacing
ROOF FRAMING			
Rafter to Top Plate (Toe-nailed)	(see Table 3.3A)	(see Table 3.3A)	per rafter
Collar Joist to Top Plate (Toe-nailed)	(see Table 3.3A)	(see Table 3.3A)	per joist
Collar Joist to Parallel Rafter (Face-nailed)	(see Table 3.3A)	(see Table 3.3A)	per lap
Collar Joist Laps over Partitions (Face-nailed)	(see Table 3.3A)	(see Table 3.3A)	each lap
Collar Joist to Rafter (Face-nailed)	(see Table 3.3A)	(see Table 3.3A)	each end
Blocking to Rafter (Toe-nailed)	2-6d	2-50d	each end
Rim Board to Rafter (End-nailed)	2-6d	2-50d	each end
WALL FRAMING			
Top Plates to Top Plates (Face-nailed)	2-16d	2-16d	per joint
Top Plates at Intersections (Face-nailed)	4-16d	4-16d	per joint
Stud to Stud (Face-nailed)	2-16d	2-16d	24" o.c.
Header to Header (Face-nailed)	2-16d	2-16d	18" o.c. along edges
Bottom Plates to Stud (End-nailed)	(see Table 3.3A)	(see Table 3.3A)	per stud
Bottom Plates to Floor Joist, Bendjoist, Endjoist or Blocking (Face-nailed)	2-16d ³	2-16d ³	per foot
FLOOR FRAMING			
Joint to Sill, Top Plate or Girder (Toe-nailed)	4-8d	4-10d	per joint
Bracing to Joist (Toe-nailed)	2-8d	2-10d	each end
Blocking to Joist (Toe-nailed)	2-8d	2-10d	each end
Blocking to Sill or Top Plate (Toe-nailed)	2-8d	2-10d	each block
Ladder Strip to Beam (Face-nailed)	3-8d	3-10d	each joint
Joist to Ledger to Beam (Face-nailed)	3-8d	3-10d	per joint
Band Joist to Joist (End-nailed)	3-16d	4-16d	per joint
Band Joist to Sill or Top Plate (Toe-nailed)	2-16d ³	2-16d ³	per foot
WOOD STRUCTURAL PANELS			
Diagonal Board Sheathing	3d	10d	(see Table 3.10)
1" or less	3d	3-10d	per support
1"10" or wider	3d	3-10d	per support
CEILING SHEATHING			
Gypsum Wallboard	5d covers	5d covers	7" edge / 10" field
WALL SHEATHING			
Wood Structural Panels	8d	10d	(see Table 3.11)
Diagonal Board Sheathing	3d	10d	per support
1" or less	3d	3-10d	per support
1"10" or wider	3d	3-10d	per support
FLOOR SHEATHING			
Wood Structural Panels	8d	10d	6" edge / 12" field
1" or less	10d	10d	6" edge / 12" field
Diagonal Board Sheathing	2-6d	2-10d	per support
1" or less	3-6d	3-10d	per support
1"10" or wider	3-6d	3-10d	per support

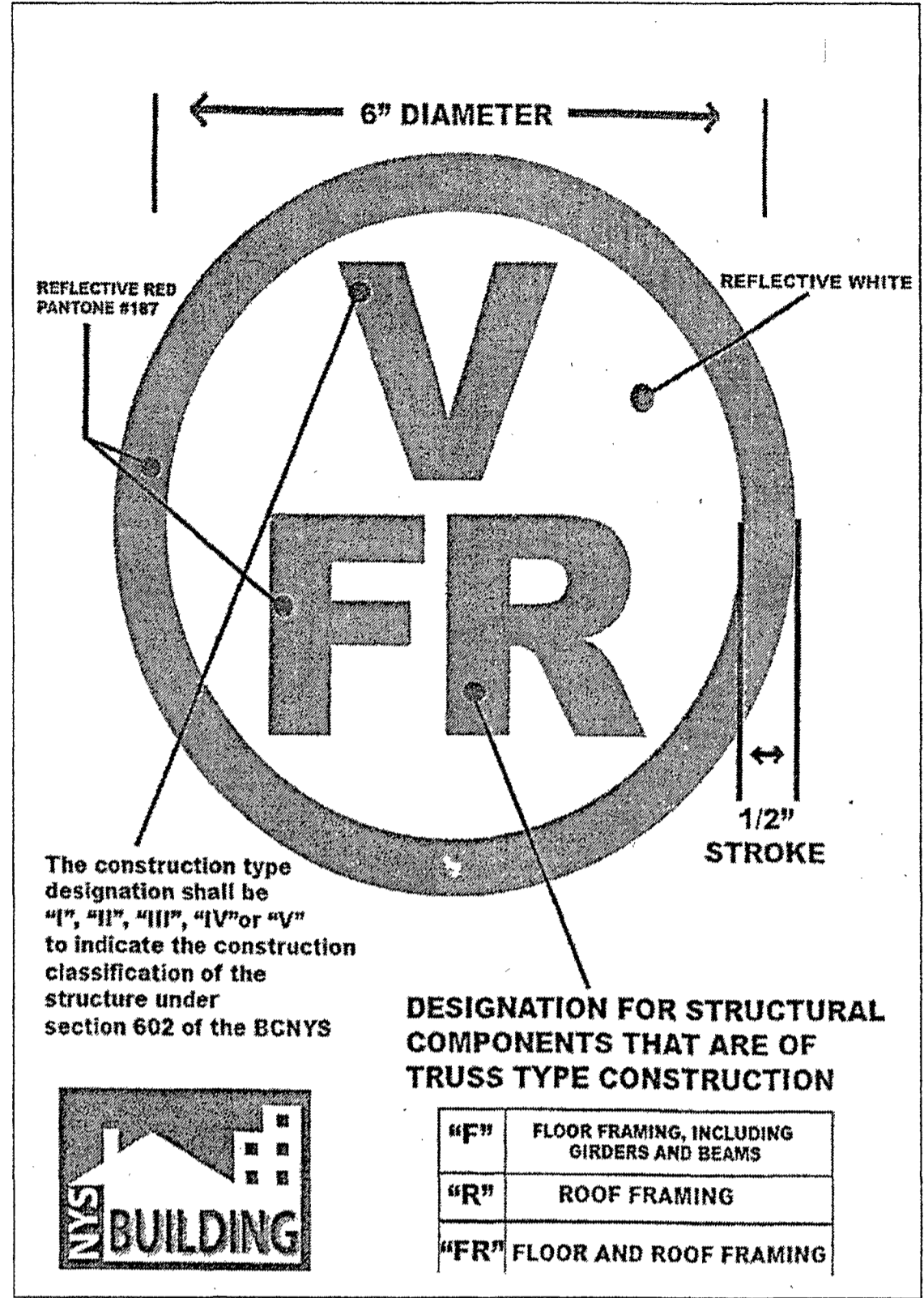


TABLE R402.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH ^a (f _c)		
	Weathering Potential ^b		
	Negligible	Moderate	Severe
Basement walls, foundations and other concrete not exposed to the weather	2,500	2,500	2,500 ^c
Basement slabs and interior slabs on grade, except garage floor slabs	2,500	2,500	2,500 ^c
Basement walls, foundation walls, exterior walls and other vertical concrete work exposed to the weather	2,500	3,000 ^d	3,000 ^d
Porch, carport slabs and steps exposed to the weather, and garage floor slabs	2,500	3,000 ^{d, e, f}	3,500 ^{d, e, f}

For Sl: 1 pound per square inch = 6.895 kPa.
 a. Strength at 28 days psi.
 b. See Table R301.2(1) for weathering potential.
 c. Concrete in these locations that is subject to freezing and thawing during construction shall be air-entrained concrete in accordance with Footnote d.
 d. Concrete shall be air-entrained. Total air content (percent by volume of concrete) shall be not less than 5 percent or more than 7 percent.
 e. See Section R402.2 for maximum cementitious materials content.
 f. For garage floors with a steel-troweled finish, reduction of the total air content (percent by volume of concrete) to not less than 3 percent is permitted if the specified compressive strength of the concrete is increased to not less than 4,000 psi.

TABLE R401.4.1 PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATION MATERIALS^a

CLASS OF MATERIAL	LOAD-BEARING PRESSURE (pounds per square foot)
Crystalline bedrock	12,000
Sedimentary and foliated rock	4,000
Sandy gravel and/or gravel (GW and GP)	3,000
Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)	2,000
Clay, sandy, silty clay, clayey silt, silt and sandy silt/clay (CL, ML, MH and CH)	1,500 ^b

For Sl: 1 pound per square foot = 0.479 kPa.
 a. Where soil tests are required by Section R401.4, the allowable bearing capacities of the soil shall be part of the recommendations.
 b. Where the building official determines that in-place soils with an allowable bearing capacity of less than 1,500 psf are likely to be present at the site, the allowable bearing capacity shall be determined by a soils investigation.

Table 3.3 Sill Plate to Foundation Connection Shear Load for Seismic GSL = 30

(Dead Load Assumptions: Roof/Ceiling = 15 psf, Floor = 12 psf, Partition = 8 psf, Wall = 110 pif, Ground Snow Load = 30 psf, Lateral force resisting system: Wood structural panel shear walls)

Foundation Supporting Dimension, W (ft)	SDC A ¹						SDC B ¹						SDC C ¹					
	1/W			1/W			1/W			1/W			1/W			1/W		
	1	1.5	2	2.5	3	3	1	1.5	2	2.5	3	1	1.5	2	2.5	3		
Roof, Ceiling & 1 Floor	12	11	15	19	23	27	21	28	36	44	51	31	43	55	66	78		
	16	12	16	21	26	30	23	32	41	50	59	35	47	60	73	87		
	20	13	18	24	29	34	25	34	43	53	62	38	51	64	78	93		
	24	14	20	26	32	38	28	38	48	59	69	42	56	70	86	102		
	28	15	22	29	35	42	30	41	52	63	74	46	61	76	93	111		
	32	17	24	31	38	45	33	45	57	70	82	50	67	82	100	120		
Roof, Ceiling & 2 Floors	12	19	25	32	39	45	36	49	62	75	88	55	74	94	114	133		
	16	21	29	36	44	52	40	55	70	86	101	61	84	107	130	153		
	20	23	31	39	47	55	44	61	77	94	111	67	94	120	146	172		
	24	26	35	43	52	60	48	66	84	103	122	74	103	131	160	191		
	28	30	40	50	60	69	53	73	93	114	135	80	111	141	173	207		
	32	34	45	56	67	77	59	81	103	125	147	87	120	153	189	228		
Roof, Ceiling & 3 Floors	12	26	36	47	57	67	54	73	92	111	130	82	110	139	168	197		
	16	31	42	54	65	77	63	82	105	127	149	91	125	158	192	226		
	20	34	46	59	71	83	68	92	117	141	166	101	138	172	210	255		
	24	38	51	64	78	92	73	101	130	159	187	110	154	197	240	291		
	28	43	57	71	86	101	81	111	141	174	207	120	166	210	255	308		
	32	48	63	78	94	110	88	121	154	192	228	130	181	225	275	331		

TABLE R401.4.2 AIR BARRIER AND INSULATION INSTALLATION

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. Exterior thermal envelope contains a continuous air barrier. Details at joints in the air barrier shall be sealed. The air barrier in any dropped ceiling cavity shall be sealed with the insulation and vapour in the air barrier shall be sealed. Access openings, drop doors and base wall doors to unconditioned air spaces shall be sealed.	Air-permeable insulation shall not be used as a sealing material. Exterior thermal envelope insulation for framed walls shall be installed in a continuous contact and continuous alignment with the air barrier.
Ceilings	The insulation in any dropped ceiling cavity shall be sealed with the air barrier.	The insulation in any dropped ceiling cavity shall be sealed with the air barrier.
Walls, windows and doors	The space between window-jamb and framing and sills and thresholds shall be sealed. The junction of the foundation and sill plate shall be sealed.	Exterior thermal envelope insulation for framed walls shall be installed in a continuous contact and continuous alignment with the air barrier.
Floors (including above-garage and conditioned floors)	The air barrier shall be installed at any exposed edge of foundation.	Exterior thermal envelope insulation for framed walls shall be installed in a continuous contact and continuous alignment with the air barrier.
Crawl Space walls	Exposed earth in unvented crawl spaces shall be covered with a Class 1 vapor retarder with perm rating not to exceed 0.05.	Where provided, instead of floor insulation, minimum shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Direct shaft, shaft penetrations, and duct shafts opening to exterior or unconditioned space shall be sealed.	
Narrow cavities	Air sealing shall be provided between the garage and conditioned space.	Exterior walls adjacent to showers and tubs shall be sealed.
Garage separation	Exposed earth in unvented crawl spaces shall be covered with a Class 1 vapor retarder with perm rating not to exceed 0.05.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the exterior.	
Flashing and siding	The air barrier shall be installed below exterior finish and above exterior finish.	
Showers/tub on exterior wall	The air barrier shall be installed below exterior finish and above exterior finish.	
Electrical boxes on exterior walls	The air barrier shall be installed below exterior finish and above exterior finish.	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the exterior or interior.	
Conditioned register boots	When required to be sealed, conditioned register boots shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill gaps between the register cover plates and walls or ceilings.	

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	GLAZED FENESTRATION SHGC ^c	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
1	NR	0.75	0.25	30	13	13	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13 + 5"	8/13	19	5/13'	6'	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13 + 5"	3/13	19	10/13	10, 2 R	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13 + 5"	13/17	30 ^d	15/19	10, 2 R	15/19
6	0.32	0.55	NR	49	20 + 5 or 13 + 10"	15/20	30 ^d	15/19	10, 4 R	15/19
7 and 8	0.32	0.55	NR	49	20 + 5 or 13 + 10"	19/21	38 ^d	15/19	10, 4 R	15/19

For Sl: 1 foot = 304.8 mm.
 a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
 b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
 c. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
 d. "15/19" means R-15 continuous insulation on the exterior or interior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the exterior of the home. "10/13" means R-10 continuous insulation on the exterior of the home or R-13 cavity insulation at the interior of the basement wall.
 e. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zones 1 through 3 for heated slabs.
 f. There are no SHGC requirements in the Marine Zone.
 g. Basement wall insulation is not required in warm-humid locations as defined by Figure N1101.10 and Table N1101.10.
 h. Or insulation sufficient to fill the framing cavity, R-19 minimum.
 i. The first value is cavity insulation, the second value is continuous insulation, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation.
 j. The second R-value applies when more than half the insulation is on the interior of the mass wall.

N1102.1.4 (R402.1.4) U-factor Alternative

An assembly with a U-factor equal to or less than that specified in Table N1102.1.4 shall be permitted as an alternative to the R-value in Table N1102.1.2.

[NY] TABLE N1102.1.4 (R402.1.4)

EQUIVALENT U-FACTORS^a

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
4	0.30	0.55	0.026	0.060	0.098	0.047	0.059	0.065
5	0.30	0.55	0.026	0.060	0.082	0.033	0.050	0.055
6	0.30	0.55	0.026	0.045	0.060	0.033	0.050	0.055

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.
 b. Mass walls shall be in accordance with Section N1102.2.5 (R402.2.5). Where more than half the insulation is on the interior, the mass wall U-factors shall not exceed 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zone 6.
 c. In warm-humid locations as defined by Figure N1101.7 and Table N1101.7, the basement wall U-factor shall not exceed 0.360.

PROPOSED TWO STY
 ADDITION AND
 REAR DECK

AUG 1, 2022

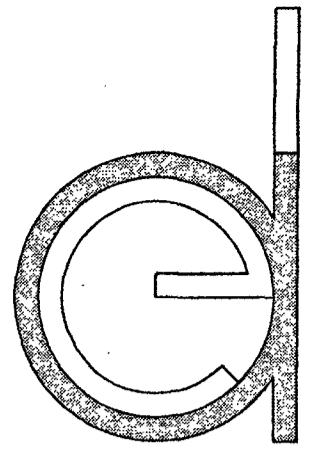
DESIGN SHALL BE IN COMPLIANCE WITH RESIDENTIAL & BUILDING CODE OF NEW YORK STATE 2020 EDITION, THE 2018 WOOD FRAME CONSTRUCTION MANUAL, AND THE 2014 NFPA STANDARD 70

REVISIONS:

GENERAL NOTES 2

SHEET NUMBER

2 OF 6



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PROPOSED TWO STY
 ADDITION AND
 REAR DECK

AUG. 1, 2022

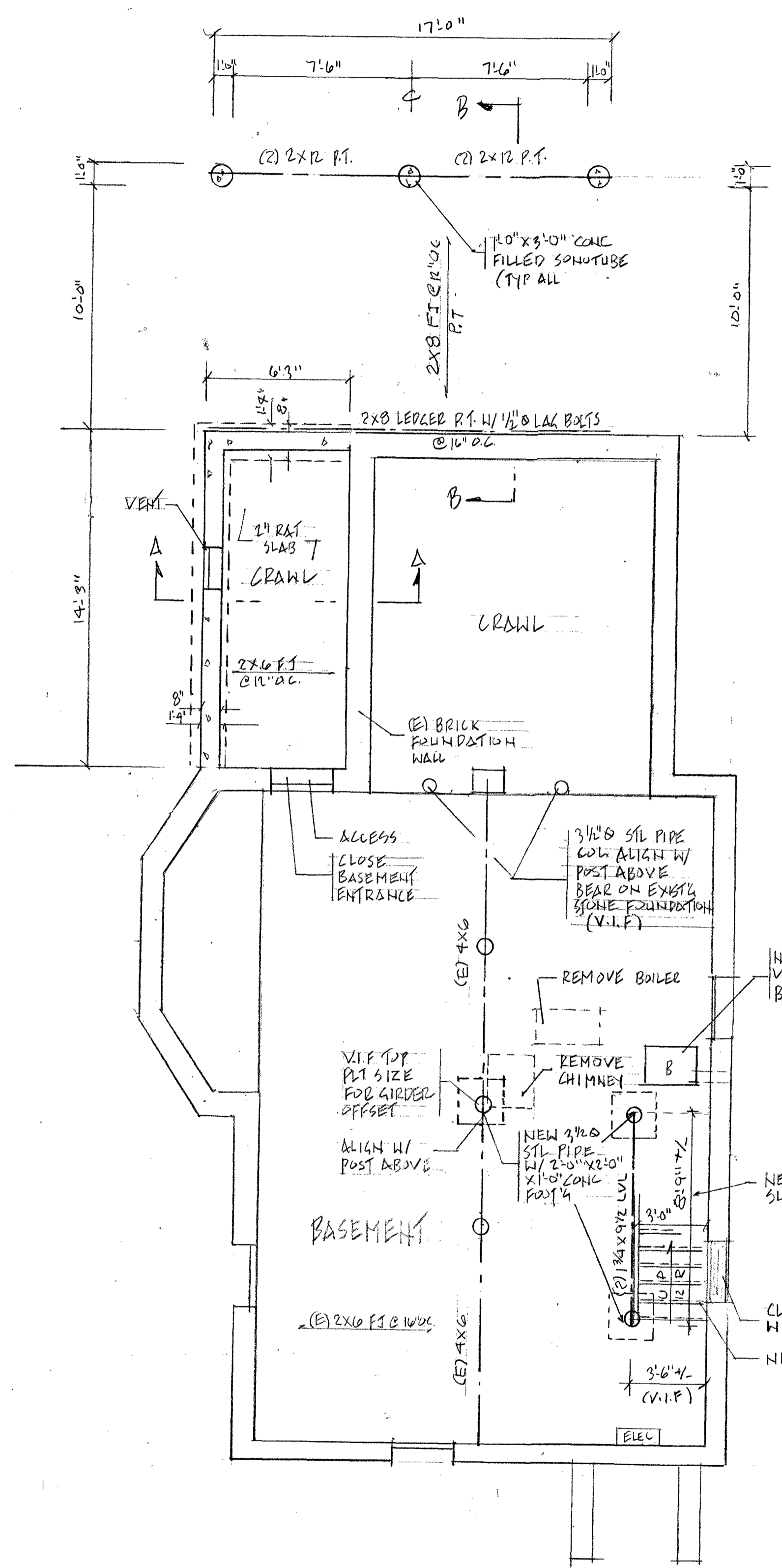
DESIGN SHALL BE IN COMPLIANCE WITH RESIDENTIAL & BUILDING CODE OF NEW YORK STATE 2020 EDITION, THE 2018 WOOD FRAME CONSTRUCTION MANUAL, AND THE 2014 NFPA STANDARD 70

REVISIONS:

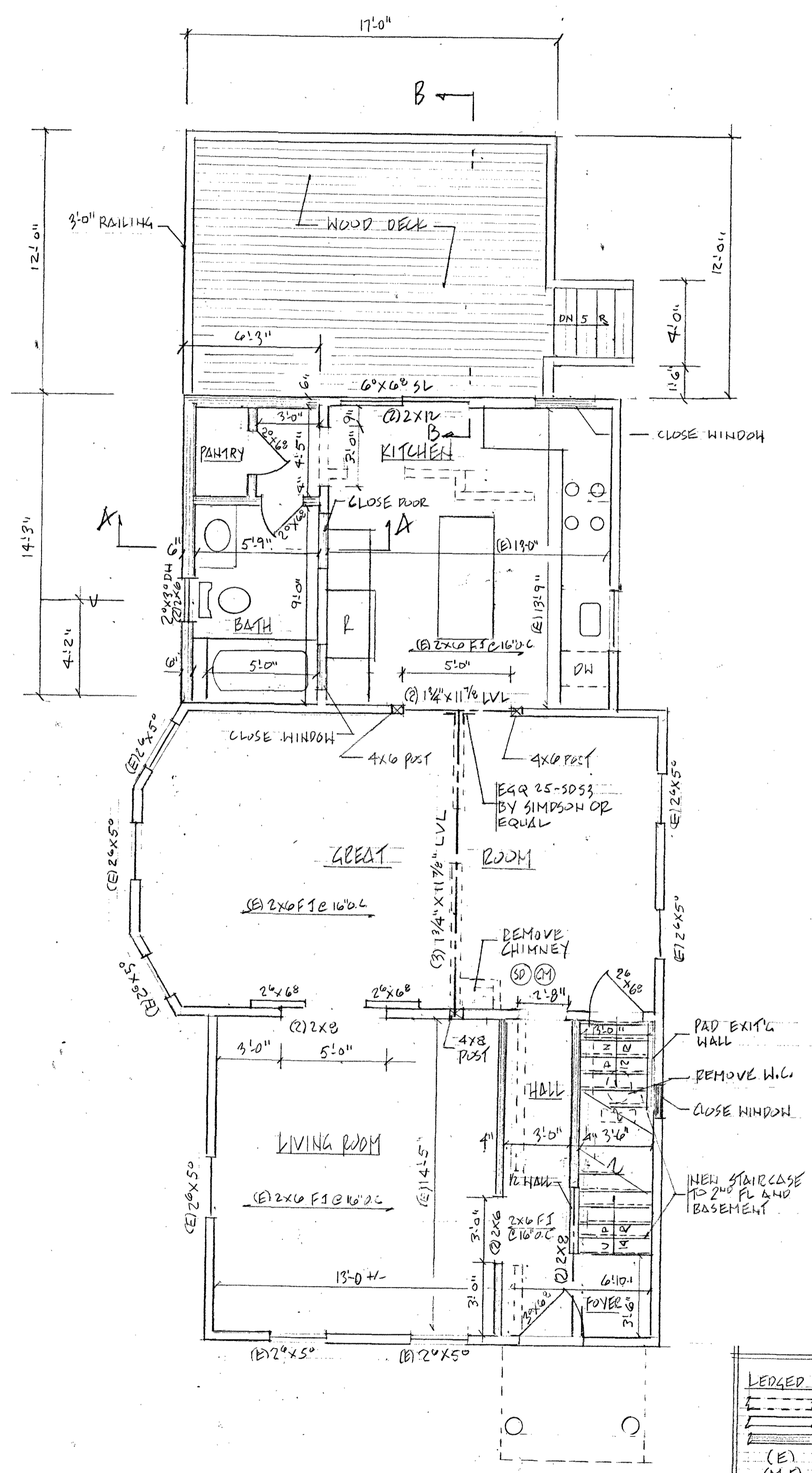
FLOOR PLANS

SHEET NUMBER

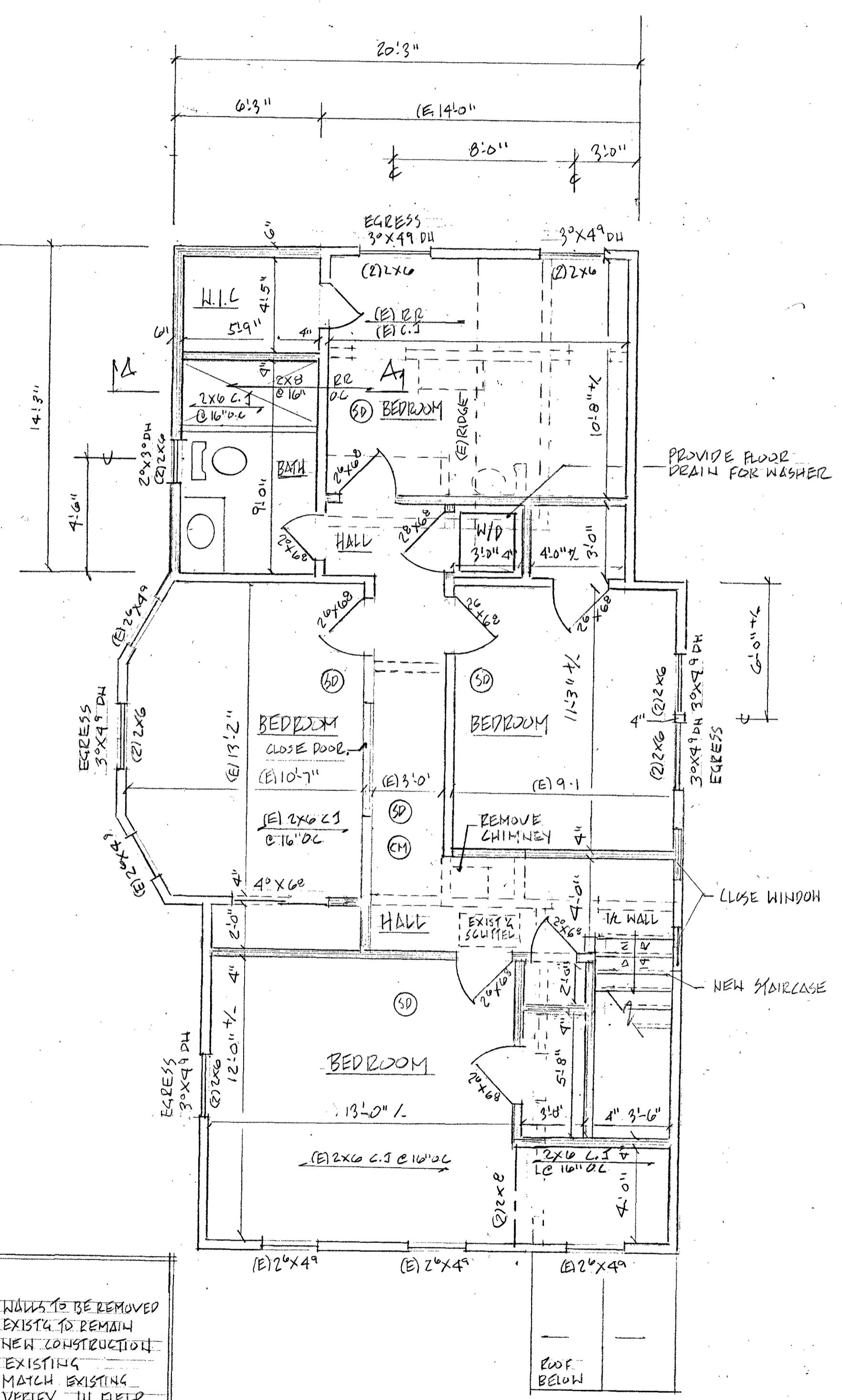
3 OF 6



FOUNDATION PLAN 1/4" = 1'-0"

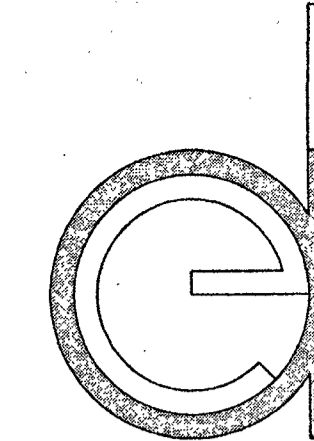


FIRST FLOOR PLAN 1/4" = 1'-0"



SECOND FLOOR PLAN 1/4" = 1'-0"

LEDGED	
	WALLS TO BE REMOVED
	EXIST'G TO REMAIN
	NEW CONSTRUCTION
(E)	EXISTING
(M.E)	MATCH EXISTING
V.I.F	VERIFY IN FIELD



EAGLE DESIGN ASSOCIATES
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417 WEST ST
 GREENPORT NY 11944

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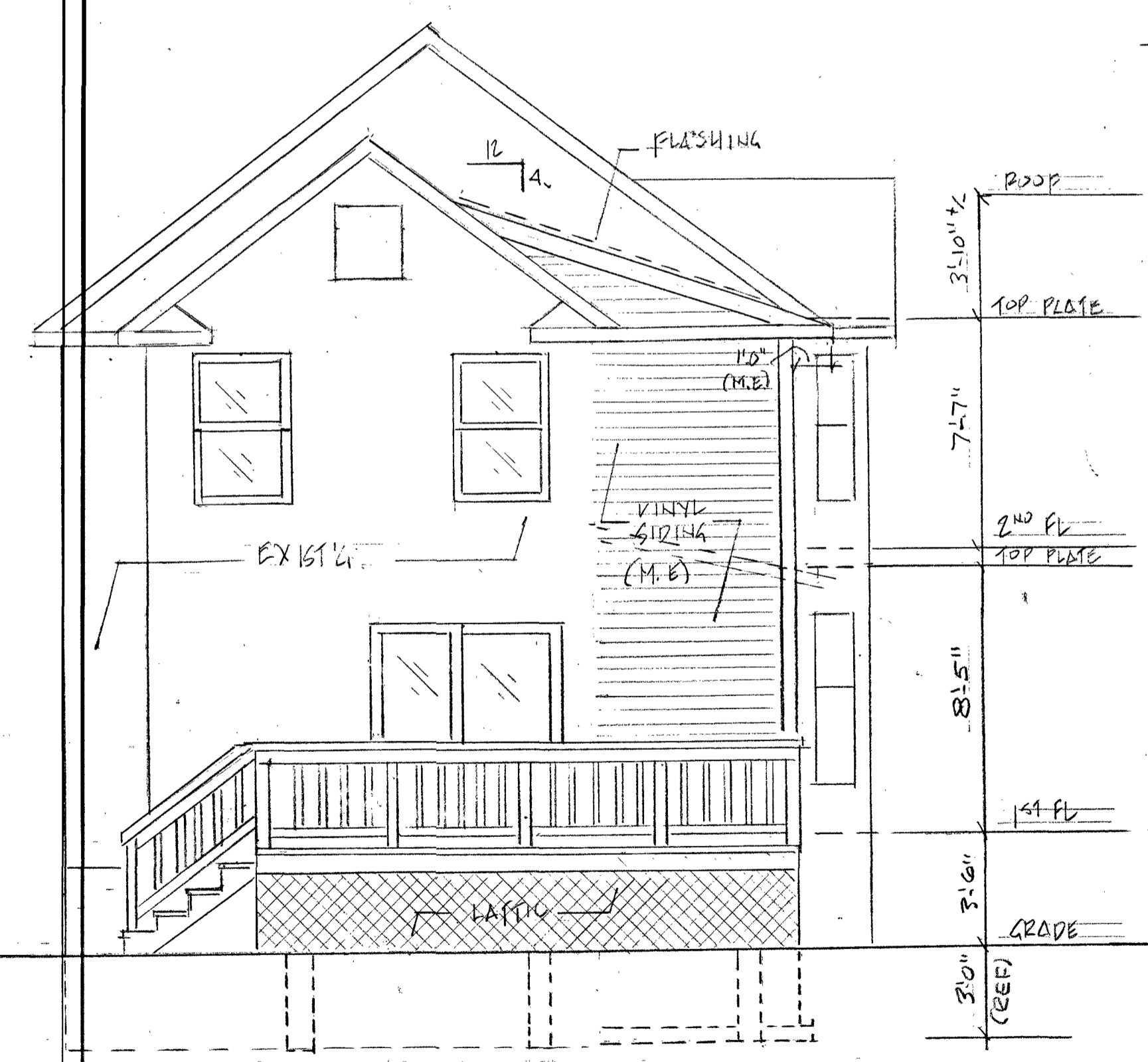
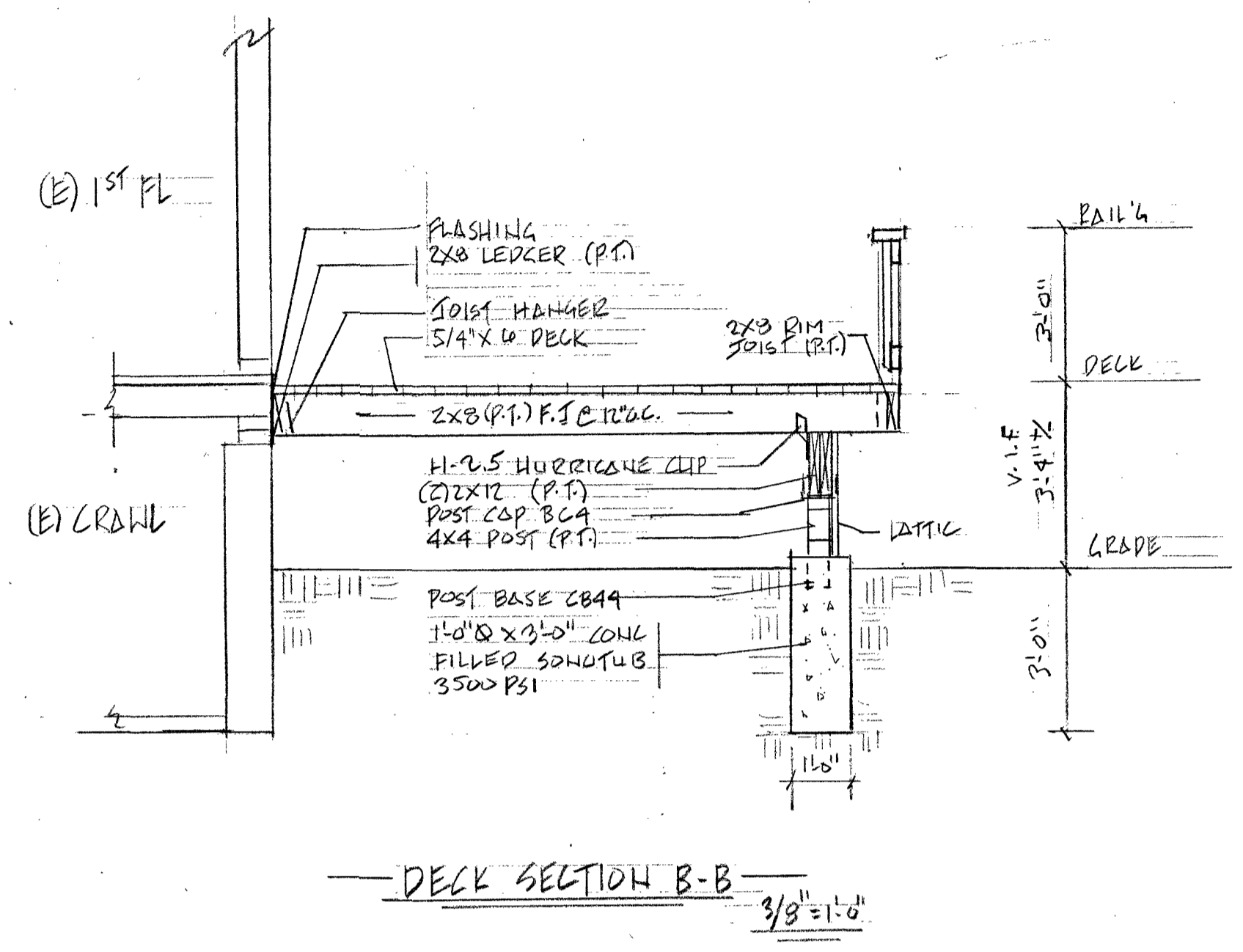
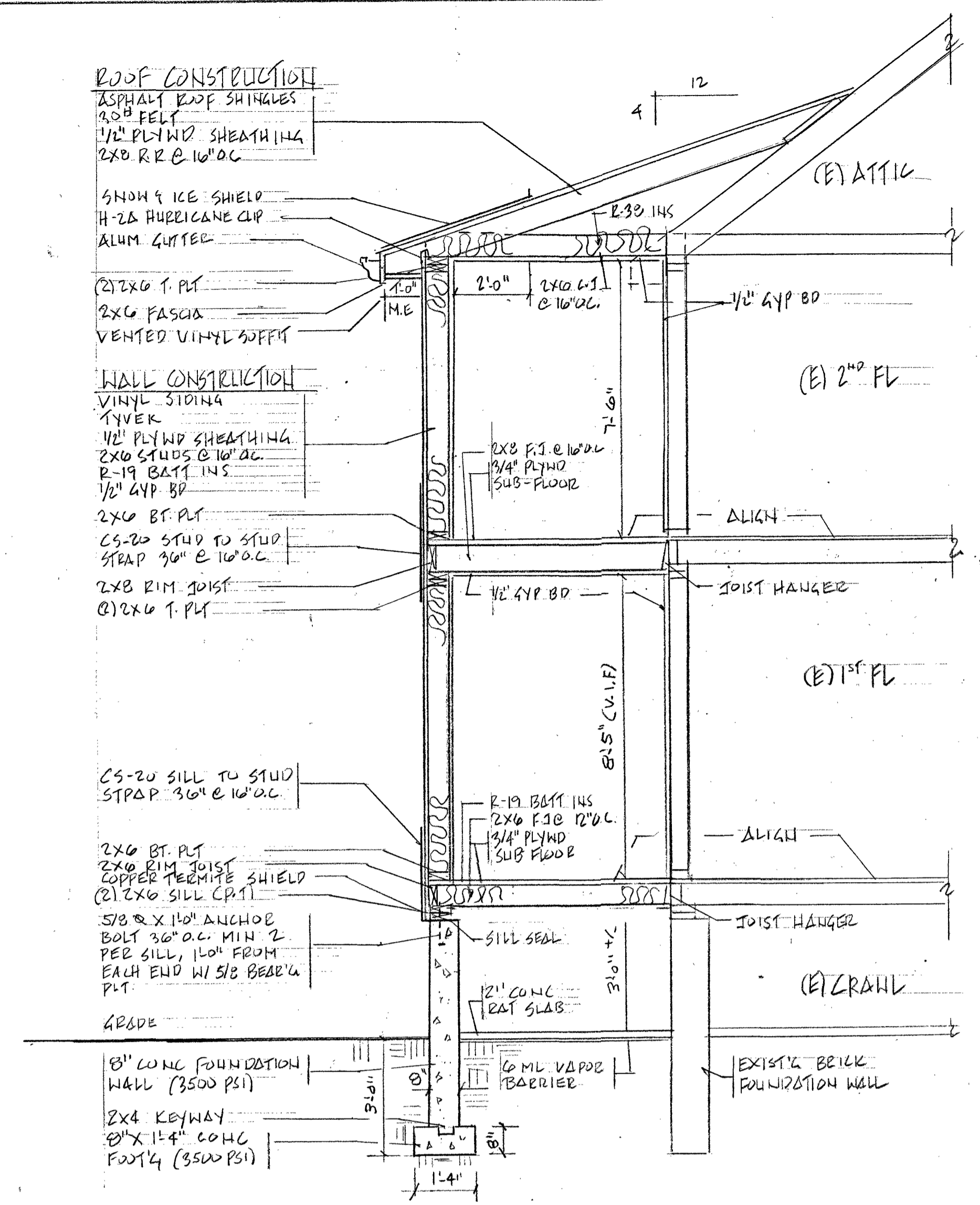
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REVISIONS:

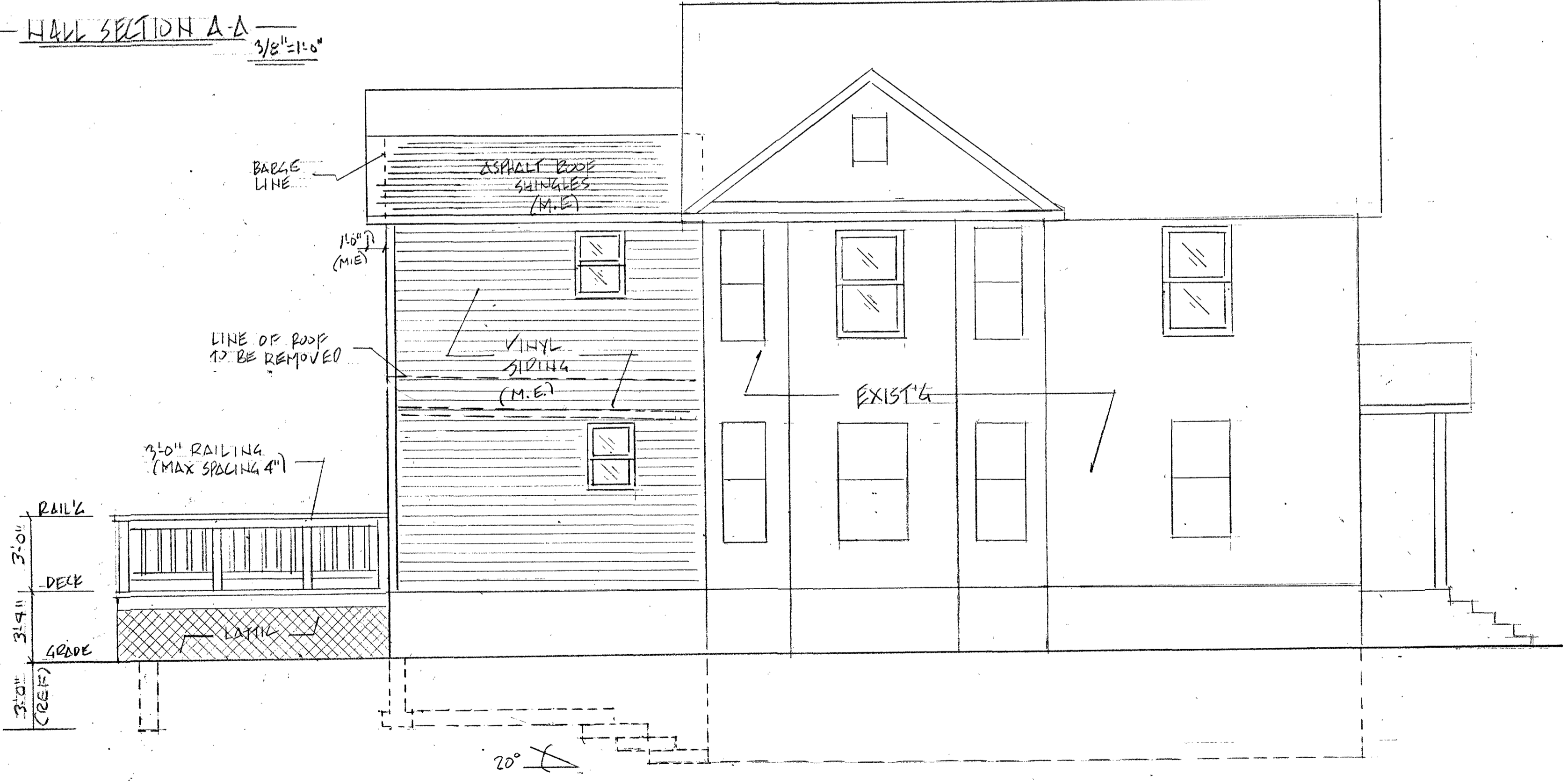
ELEVATIONS / SECTIONS

SHEET NUMBER

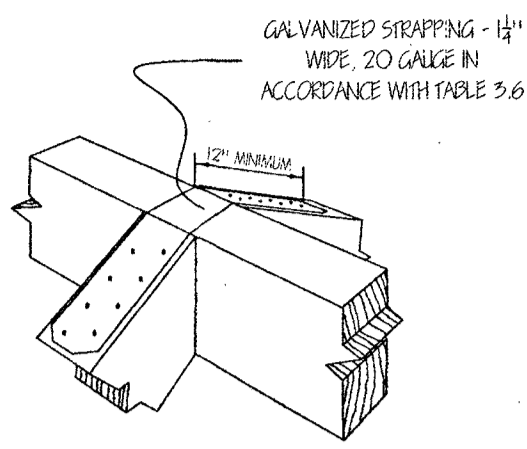
4 OF 6



REAR ELEVATION
 1/4" = 1'-0"

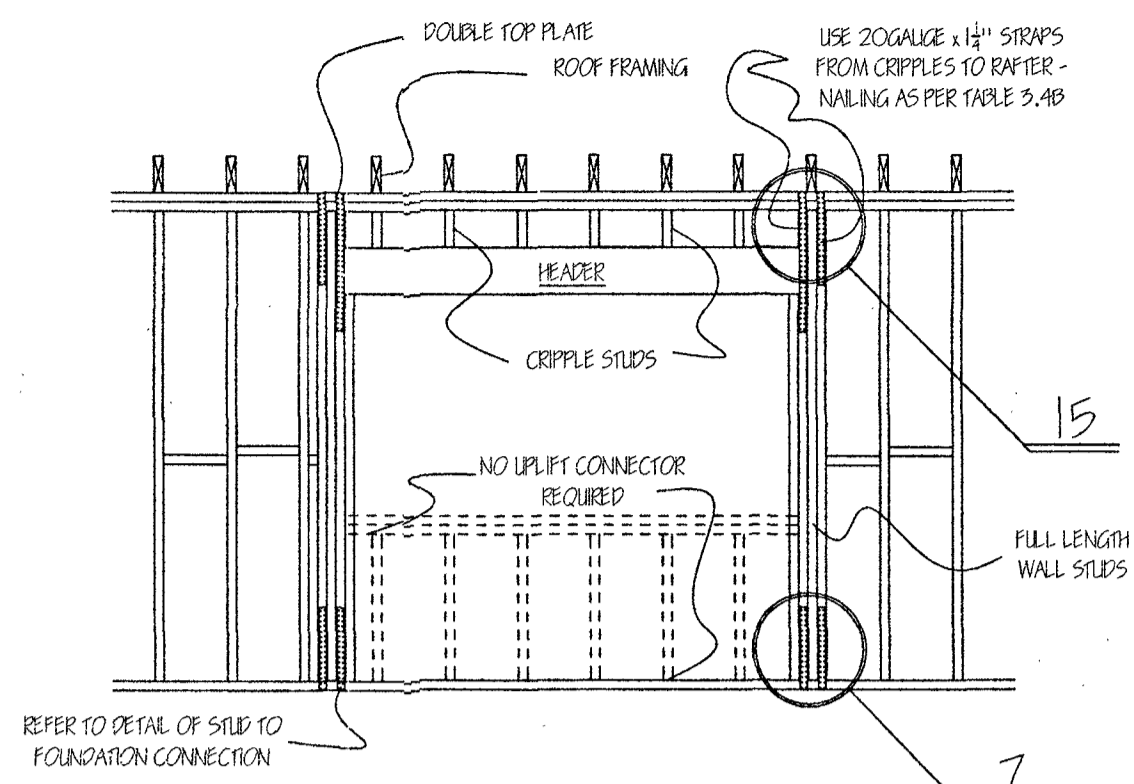


LEFT SIDE ELEVATION
 1/4" = 1'-0"



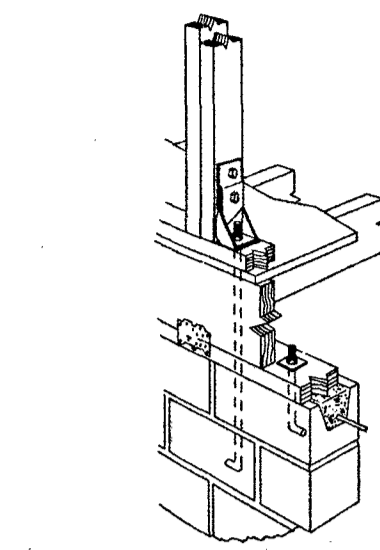
RIDGE
INCREASE LENGTH OF NAIL - TYPICALLY 1/2" WHEN RE-INSTALLED OVER 1/2" COI STRUCTURAL PANEL

ALSO USE L5502B - JOIST HANGER IN VALUED CEILING CONDITIONS



TYPICAL FRAMING AND UPLIFT CONNECTIONS FOR OPENINGS

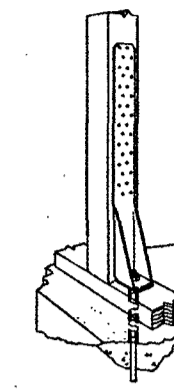
REFER TO DETAIL OF STUD TO FOUNDATION CONNECTION



OVERTURNING HOLD DOWNS

PROVIDE MINIMUM OF 1 1/2" EMBEDMENT IN C.M.U. UNITS - FULL TOP 2 COURSES SOLID @ FOUNDATION WALL - TYPICAL - FULL ALL WEBS SOLID @ LOAD POINTS

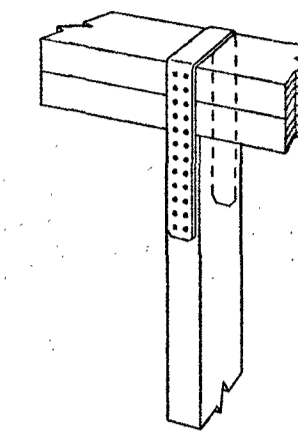
PROVIDE 7" DEPTH OF ANCHOR BOLTS IN POURED CONCRETE FOUNDATION WALL - MINIMUM



SHEAR WALL HOLDDOWN

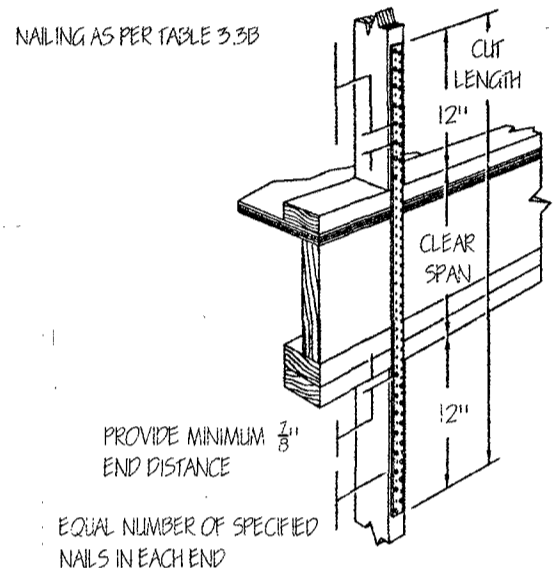
SIMPSON STRONG-TIE (H174) FOR CONCRETE APPLICATIONS (FOR EXAMPLE, SLAB ON GRADE OR FOUNDATION)

SEE PLANS FOR LOCATION INDICATED AS @ HD.



DOUBLE TOP PLATE TO STUD CONNECTION

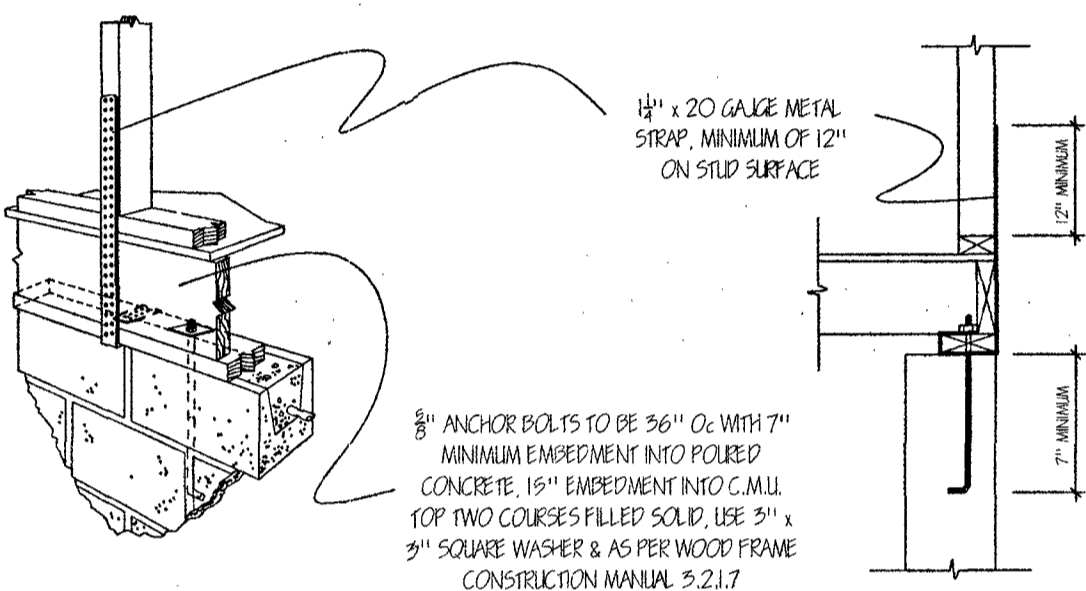
20 GAUGE 1/2" GALVANIZED STRAPPING @ EACH SIDE - PROVIDE MINIMUM 12" OVERLAP ON STUD AND NAILING AS PER 3.4B



STUD TO STUD CONNECTION

1/2" x 20 GAUGE GALVANIZED STRAPPING WITH 24 COMMON NAILS EACH STUD AS PER TABLE 3.5B

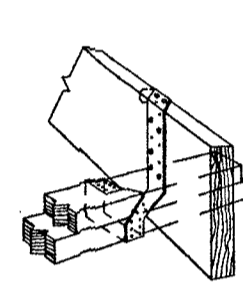
WALL TO WALL CONNECTION IN ACCORDANCE WITH 3.2.2.2 - WHEN STUDS DO NOT ALIGN THEN STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY WITH UPLIFT CONNECTIONS IN ACCORDANCE WITH TABLE 3.5



STUD TO FOUNDATION CONNECTION

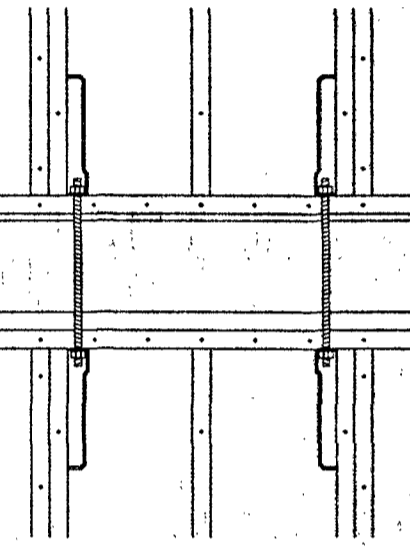
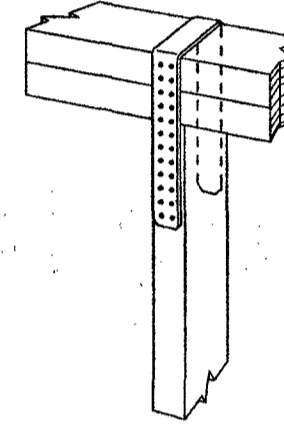
1/2" x 20 GAUGE GALVANIZED STRAPPING WITH 1/2" NAIL STRIP AROUND SILL PLATE. PROVIDE BARRIER OF MINIMUM 30# FELT BETWEEN STRAPPING AND ACO LUMBER STRAPPING TO BE LAPPED UNDER BOTTOM PLATE AND NAILED AS PER TABLE 3.4B STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH CONCRETE SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION OR MANUFACTURED FROM GALVANIZED STEEL SET BY USING AUTOMATIC TRIPLE SPOT TEST

SPACE BOLTS AS PER TABLE 3.2B AND IN ACCORDANCE WITH WOOD FRAME CONSTRUCTION MANUAL 3.2.1.7 AND AS PER BUILDING HEIGHT / ROOF PITCH 4.3.1.5.1



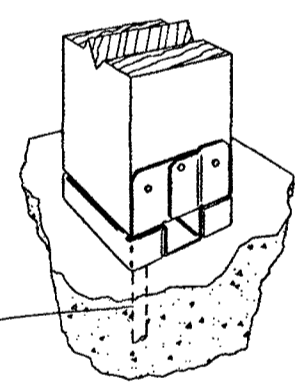
ROOF CONNECTION DETAIL FOR NON-ALIGNMENT OF ROOF RAFTER & STUD

1/2" x 20 GAUGE GALVANIZED STRAPPING @ EACH RAFTER NAILED AS PER TABLE 3.4B



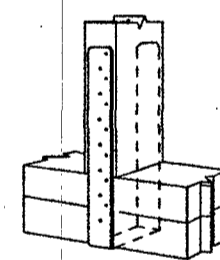
FLOOR TO FLOOR CONNECTION

SEE PLANS FOR LOCATION INDICATED AS @ HD.



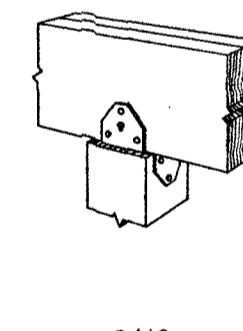
POST BASE

SIMPSON STRONG-TIE (C40A-44) MINIMUM OF 3/4" @ ANCHOR BOLT WITH MINIMUM OF 7" EMBEDMENT IN POURED CONCRETE 15" IN MASONRY BLOCK FILL WEBS SOLID @ POST BASE / LOAD POINTS



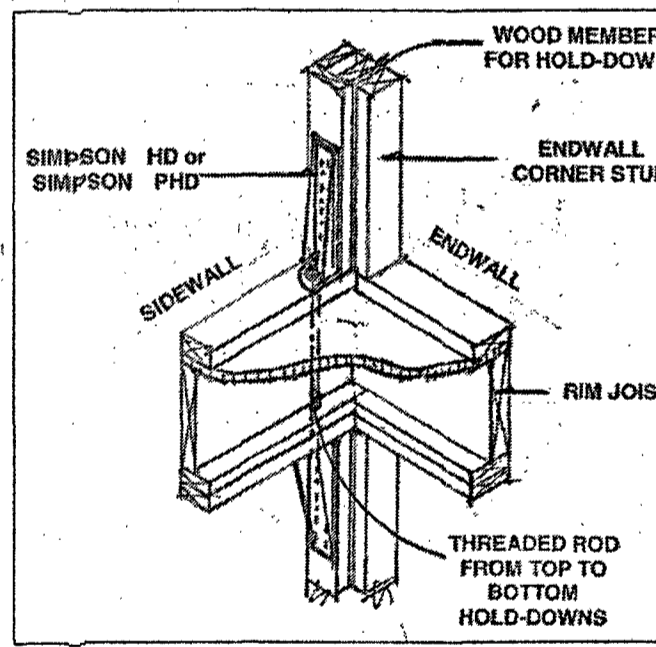
STUD TO SILL PLATE

1/2" x 20 GAUGE STRAPS TO RUN FROM STUDS DOWN & AROUND BOTTOM PLATES BETWEEN PLATES & FOUNDATION & NAILED AS PER TABLE 3.4B PROVIDING A MINIMUM OVERLAP OF 12" ON STUDS (AT SLAB ON GRADE APPLICATIONS)

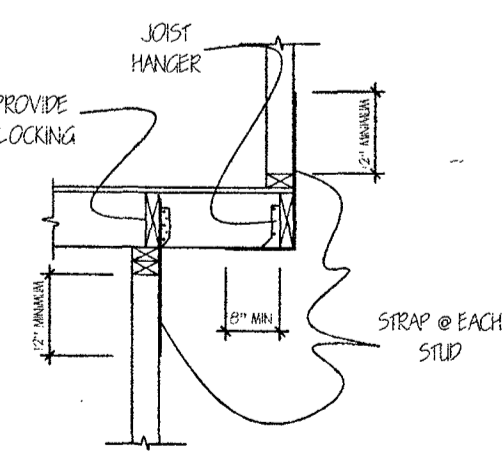


FACE MOUNT HANGER

SIMPSON STRONG-TIE (L1526) L1526, L1528, L1528-2, L1529-2, L1530, L1530-2

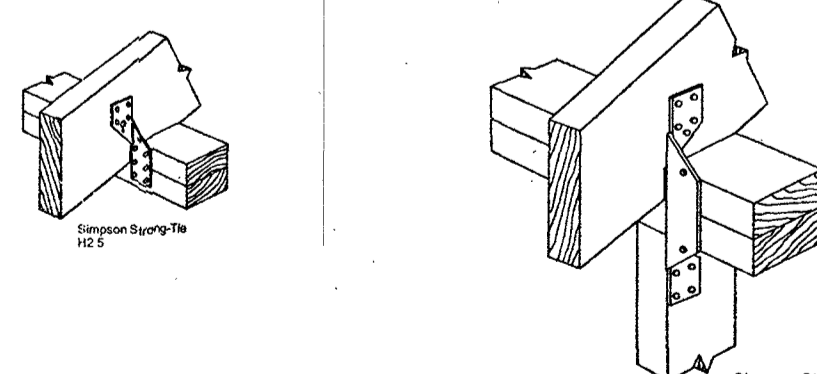


TYPICAL CONNECTION FLOOR TO FLOOR AT CORNER FOR 2 STORY CONSTRUCTION



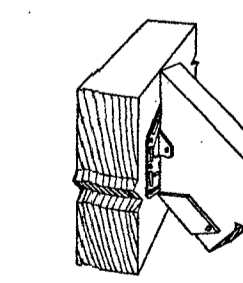
FLOOR TO FLOOR CONNECTION

(CANTILEVER CONDITIONS) 20 GAUGE 1/2" STRAPPING AT FLOOR JOISTS TO MAINTAIN CONTINUOUS LOAD PATH AS REQUIRED BY WOOD FRAME CONSTRUCTION MANUAL SECTION 3.2 - NAIL AS PER TABLE 3.4B



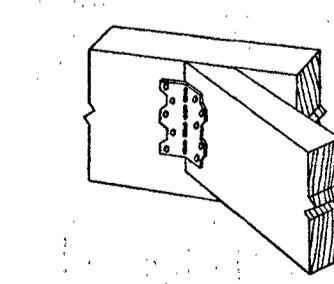
ROOF CONNECTION DETAIL FOR ALIGNMENT OF ROOF RAFTER & STUD

1/2" x 20 GAUGE GALVANIZED STRAPPING WHEN BRIDGES DO NOT FALL IN LINE WITH STUDS BELOW BRIDGES SHALL BE ATTACHED TO THE WALL TOP PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD OF UPLIFT CONNECTIONS IN ACCORDANCE WITH TABLE 3.4B SEE DETAIL 10 ON THIS PAGE



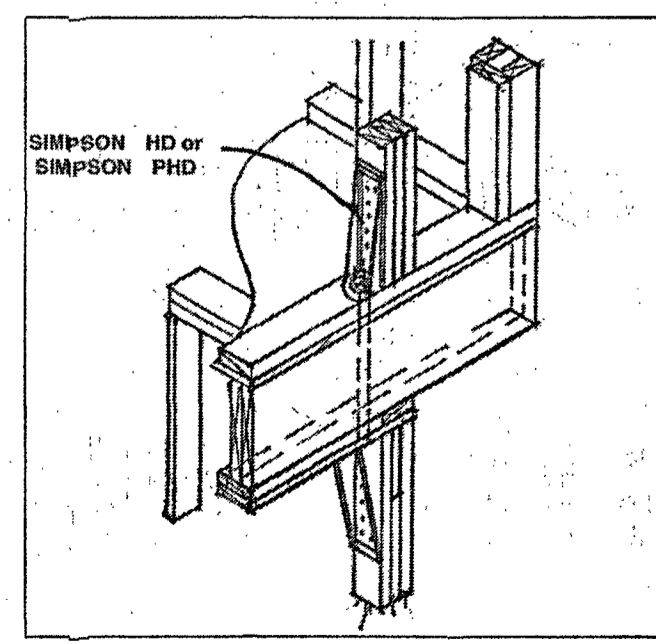
ADJUSTABLE HANGER

SIMPSON STRONG-TIE (L5502B) L5502B - 2" x 8", 2" x 10", 2" x 12" TYPICAL @ HEADS AND VALLEYS AND WITH ALL CEILINGS



FACE MOUNT HANGER - SKEWED

SIMPSON STRONG-TIE (L570)



TYPICAL CONNECTION FOR FLOOR TO FLOOR AT CANTILEVER

PROVIDE DOUBLE STUDS FOR ATTACHMENT OF SHEAR WALL HARDWARE - PROVIDE MINIMUM NAILING OF 2-16d @ 10" O.C. MINIMUM FOR DOUBLE STUD - NOT FOR ATTACHMENT OF HARDWARE

INSTRUCTIONS FOR THE INSTALLER

A. ALL SPECIFIED FASTENERS MUST BE INSTALLED ACCORDING TO THE INSTRUCTIONS IN THE SIMPSON (WOOD CONSTRUCTION CATALOG - C - 2005). INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL, OR FINISH MAY CAUSE THE CONNECTION TO FAIL.

B. BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/8" AND NO MORE THAN A MAXIMUM OF 1/4" LARGER THAN THE BOLTED DIAMETER (PER THE 1997 NDS, SECTION 61.2.1).

C. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.

D. USE PROPER SAFETY EQUIPMENT.

E. WELDING GALVANIZED STEEL MAY PRODUCE HAZARDOUS FUMES. FOLLOW PROPER WELDING PROCEDURES AND SAFETY PRECAUTIONS. WELDING SHOULD BE IN ACCORDANCE WITH A.S.S. STANDARDS.

F. PNEUMATIC OR POWER-ACTIVATED FASTENERS MAY DEFLECT AND INFLUENCE THE OPERATOR OR OTHERS. NAIL TOOLS MAY BE USED TO INSTALL CONNECTORS, PROVIDED THE CORRECT QUANTITY AND TYPE OF NAILS ARE PROPERLY INSTALLED IN THE NAIL HOLES. TOOLS WITH NAIL-HOLE-LOCATING MECHANISMS SHOULD BE USED. FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND USE THE APPROPRIATE SAFETY EQUIPMENT.

G. JOISTS SHALL BEAR COMPLETELY ON THE CONNECTOR SEAT, AND THE GAP BETWEEN THE JOIST END AND THE HEADER SHALL NOT EXCEED 1/4" PER ASTM TEST STANDARDS.

H. FLOOR HOLD-DOWNS, ANCHOR BOLT NUTS SHOULD BE TIGHTENED PLUS 1/2 TURN WITH A WRENCH, WITH CONSIDERATION GIVEN TO POSSIBLE FUTURE WOOD SHRINKAGE. CARE SHOULD BE TAKEN TO NOT OVER-TIGHTEN THE NUT.

I. PROVIDE NAILING FOR STRAPPING AS PER TABLE 3.4B WOOD FRAME CONSTRUCTION MANUAL - 5" O.C. @ 12" MINIMUM

Table 3.4A Rafter and/or Ceiling Joist to Top Plate Lateral and Shear Connection Requirements (Prescriptive Alternative to Table 3.4)

700-yr. Wind Speed 3-second gust (mph)	110	115	120	130	140	150	160	170	180	195	
Rafter/Ceiling Joist Spacing (in.)	Wall Height (ft.)	Number of 8d Common Nails or 10d Box Nails (toenails) ^{1,2} Required in Each Rafter and/or Ceiling Joist to Top Plate Connection									
12	8	2	2	2	2	3	3	3	3	3	3
	10	2	2	2	2	3	3	3	3	3	3
	12	2	2	2	2	3	3	3	3	3	3
16	8	2	2	2	2	3	3	3	3	3	3
	10	2	2	2	2	3	3	3	3	3	3
	12	2	2	2	2	3	3	3	3	3	3
24	8	2	2	2	2	4	4	5	5	5	5
	10	2	2	2	2	4	4	5	5	5	5
	12	2	2	2	2	4	4	5	5	5	5

1. Prescriptive limits are based on assumptions in Table 3.4.
2. When ceiling joists are installed parallel to rafters, the sum of the toenails in the rafter and ceiling joist shall equal or exceed the tabulated number of nails required.
3. To avoid splitting, no more than 2 toenails shall be installed in each side of a rafter or ceiling joist when fastened to a 2x4 top plate or 3 toenails in each side when fastened to a 2x6 top plate.
4. Where top plate-to-ridge heights exceed 10', they shall be adjusted as follows:

Wall Height	8'	10'
Top Plate to Ridge Height (ft.)	Adjustment Factor	
10'	1.00	1.00
15'	1.15	1.25
20'	1.40	1.50

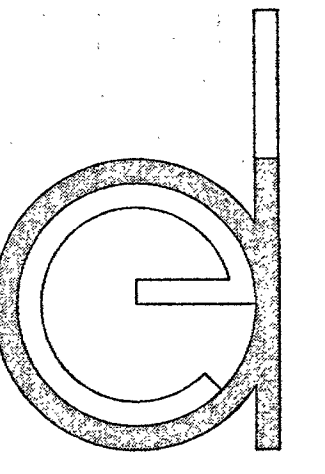
Table 3.5A Top and Bottom Plate to Stud Lateral Connections for Wind Loads (Prescriptive Alternative to Table 3.5)

700-yr. Wind Speed 3-second gust (mph)	110	115	120	130	140	150	160	170	180	195	
Stud Spacing (in.)	Wall Height (ft.)	Required Number of 16d Common Nails or 40d Box Nails per Stud to Plate Connection ^{1,2}									
8	8	2	2	2	2	2	2	2	2	2	2
	10	2	2	2	2	2	2	2	2	2	2
	12	2	2	2	2	2	2	2	2	2	2
12	8	2	2	2	2	2	2	2	2	2	2
	10	2	2	2	2	2	2	2	2	2	2
	12	2	2	2	2	2	2	2	2	2	2
16	8	2	2	2	2	2	2	2	2	2	2
	10	2	2	2	2	2	2	2	2	2	2
	12	2	2	2	2	2	2	2	2	2	2
24	8	2	2	2	2	2	2	2	2	2	2
	10	2	2	2	2	2	2	2	2	2	2
	12	2	2	2	2	2	2	2	2	2	2

1. Prescriptive limits are based on assumptions in Table 3.5.
2. Tabulated framing loads and connection requirements shall be permitted to be multiplied by 0.92 for framing not located within 8 feet of corners.

Table 3.6 Ridge Connection Requirements for Wind (Dead Load Assumptions: Roof Assembly DL = 10 psf)

700-yr. Wind Speed 3-second gust (mph)	110	115	120	130	140	150	160	170	180	195	
Roof Pitch	Roof Span (ft.)	Required Capacity of Ridge Connection (lb/ft) ^{1,2,3,4}									
12	77	91	105	126	149	178	208	244	284	327	377
	103	121	141	168	201	239	282	331	384	441	503
	128	152	179	216	258	305	359	419	484	554	629
3:12	84	101	117	140	167	198	233	273	319	371	428
	108	129	149	177	210	248	292	342	398	459	525
	132	158	182	216	254	296	345	401	464	532	604
	156	187	216	256	300	348	402	464	532	604	681
	180	216	250	296	348	402	464	532	604	681	764
	204	244	284	338	396	456	524	596	672	756	844
	228	272	316	376	438	504	576	656	744	836	936
	252	296	344	408	476	548	624	708	804	904	1012
	276	320	372	440	512	588	672	768	872	984	1104
	300	344	398	472	548	628	716	816	924	1044	1172
	324	368	428	508	588	676	776	884	1004	1132	1272
	348	392	456	540	624	716	816	924	1044	1184	1332
	372	416	484	572	660	756	864	976	1096	1244	1404
	396	440	512	600	692	792	904	1024	1144	1296	1464
	420	464	540	632	728	832	944	1064	1184	1344	1512
	444	488	568	660	760	868	984	1104	1224	1384	1560
	468	512	592	688	792	904	1024	1144	1264	1424	1608
	492	536	616	712	816	928	1048	1168	1288	1448	1656
	516	560	640	736	840	956	1076	1196	1316	1488	1704
	540	584	664	760	864	976	1096	1216	1336	1504	1752
	564	608	688	784	888	1000	1120	1240	1360	1524	1800
	588	632	712	808	912	1024	1144	1264	1384	1544	1848
	612	656	736	832	936	1048	1168	1288	1408	1564	1896
	636	680	760	856	960	1072	1192	1312	1432	1584	1944
	660	704	784	880	984	1096	1216	1336	1456	1604	1992
	684	728	808	904	1008	1120	1240	1360	1480	1624	2040
	708	752	832	928	1032	1144	1264	1384	1504	1644	2088
	732	776	856	952	1056	1168	1288	1408	1528	1664	2136
	756	800	880	976	1080	1184	1304	1424	1544	1684	2184
	780	824	904	1000	1104	1208	1328	1448	1568	1704	2232
	804	848	928	1024	1128	1232	1352	1472	1592	1724	2280
	828	872	952	1048	1152	1256	1376	1496	1616	1744	2328
	852	896	976	1072	1176	1280	1400	1520	1640	1764	2376
	876	920	1000	1096	1196	1296	1416	1536	1664	1784	2424
	900	944	1024	1120	1216	1312	1432	1552	1684	1804	2472
	924	968	1048	1144	1232	1328	1448	1568	1704	1824	2520
	948	992	1072	1168	1248	1344	1464	1584	1724	1844	2568
	972	1016	1096	1192	1264	1360	1480	1604	1744	1864	2616
	99										



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REVISIONS:

AIR SEAL DETAILS

SHEET NUMBER

6 OF 6

