GENERAL NOTES

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF ARCHITECT AND ARE PROTECTED UNDER COMMON LAWCOPYRIGHT PROVISIONS. THEY ARE NOT TO BE REUSED EXCEPT BY WRITTEN AGREEMENT AND WITH THE AGREED COMPENSATION TO THE ARCHITECT. IF REUSED WITHOUT PERMISSION, THE ARCHITECT SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ALL LIABILITY, LEGAL EXPOSURE, CLAIMS, DAMAGES, LOSSES & EXPENSES. DRAWINGS SHALL NOT BE USED FOR ISSUANCE OF A BUILDING PERMIT UNLESS SIGNED & SEALED BY THE ARCHITECT. DRAWINGS SHALL NOT BE USED FOR MULTIPLE OR PROTOTYPE DEVELOPMENT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

THE ARCHITECT'S ADMINISTRATION OF THE CONSTRUCTION WORK, BY MUTUAL CONSENT IS NOT PART OF THIS AGREEMENT. THE OWNER AND/ OR GENERAL CONTRACTOR SHALL APPOINT A PERSON TO BE IN CHARGE OF THE WORK PER NJUCC 5.23-2.21 CONSTRUCTION CONTROL EXECUTION. THE ARCHITECT SHALL NOT BE RESPONSIBLE WHERE CONSTRUCTION DEVIATES FROM THESE DRAWINGS OR FROM WRITTEN RECOMMENDATIONS. CHANGES TO THE PLAN BY THE OWNER AND/ OR CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE PERSONS MAKING SUCH CHANGES. THE OWNER AND/ OR CONTRACTOR SHALL HOLD THE ARCHITECT HARMLESS FROM & AGAINST ALL CLAIMS, DAMAGES, LOSSES & EXPENSES INCLUDING, BUT NOT LIMITED TO, ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK BY THE CONTRACTOR. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHANGE OF & SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, FOR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING & PAYING FOR ALL THE REQUIRED PERMITS, INSPECTIONS, ETC. PROJECT COMPLETION: UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST SUBMIT A CERTIFICATE OF OCCUPANCY APPROVED BY THE BUILDING DEPARTMENT TO THE OWNER.

ALL WORK, MATERIALS AND EQUIPMENT SHALL MEET THE LATEST REQUIREMENTS OF ALL APPLICABLE STATE & LOCAL BUILDING CODES, REGULATIONS, THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION & THE SPECIFICATIONS OF THE NATIONAL BOARD OF UNDERWRITERS. WHERE APPLICABLE, COMPLY WITH ALL REQUIREMENTS OF THE NJUCC BARRIER FREE SUBCODE AND/ OR THE AMERICANS WITH DISABILITIES ACT (ADA). EXCEPT WHERE SPECIFIED, REQUIREMENTS ARE MORE STRINGENT;

INSTALL ALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS & THE STANDARD OF RECOGNIZED AGENCIES & ASSOCIATIONS. PROVIDE ALL ANCHORS, FASTENERS, & ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALLOW FOR THERMAL EXPANSION/ CONTRACTION & BUILDING MOVEMENT. SEPARATE INCOMPATIBLE MATERIALS WITH SUITABLE MATERIALS OR SPACING. PREVENT CATHODIC CORROSION. PROTECT ALUMINUM SURFACES FROM CONTACT WITH MASONRY OR OTHER METALS. PROVIDE CONTROL JOINTS AT MATERIALS & ISOLATION JOINTSBETWEEN MATERIALS/ STRUCTURE AS INDICATED & AS REQUIRED BY MANUFACTURER OR RECOGNIZED INDUSTRY STANDARDS. INSTALL PRODUCTS UNDER APPROPRIATE ENVIROMENTAL CONDITIONS (AIR TEMPERATURE, SURFACE TEMPERATURE, RELATIVE HUMIDITY, ETC.) TO INSURE QUALITY AND DURABILITY, MAINTAIN PROPER PROTECTION DURING DRYING/CURING.

THE CONTRACTOR SHALL, WITHOUT DELAY & PRIOR TO FABRICATION OR INSTALLATION, BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN THE MANUFACTURER'S SPECIFICATIONS OR RECOMMENDATIONS, APPLICABLE CODE PROVISIONS, AND THE CONTRACT DOCUMENTS. UNAUTHORIZED CHANGES TO PLANS BY THE OWNER AND/ OR CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE PERSONS MAKING SUCH CHANGES.

PRODUCT OPTIONS: IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT PRODUCTS WHICH COMPLY WITH THE CONTRACT DOCUMENTS & WHICH ARE COMPATIBLE WITH ONE ANOTHER, WITH EXISTING WORK, & THE PRODUCTS SELECTED BY OTHER CONTRACTORS. PROVIDE MANUFACTURER'S INFORMATION, SAMPLES, ETC. WHEN REQUESTED.

SUBMISSION OF A SUBSTUTION REQUEST BY THE CONTRACTOR, WHERE PERMITTED ON THE CONTRACT DOCUMENTS, SHALL CONSTITUTE A REPRESENTATION BY THE CONTRACTOR THAT HE/ SHE HAS INVESTIGATED THE PROPOSED PRODUCT OR CONDITIONS & DETERMINED THAT IT IS EQUAL TO OR BETTER THAN THE SPECIFIED PRODUCT OR CONDITION, INCLUDING WARRANTY COVERAGE, & THAT HE/ SHE WILL COORDINATE THE INSTALLATION & MAKE OTHER CHANGES, INCLUDING MODIFICATION AND COORDINATION OF OTHER WORK AFFECTED BY THECHANGE, WHICH MAY BE REQUIRED FOR THEIR WORK TO BE COMPLETE IN ALL ASPECTS.

THIS IS A 'BUILDER'S PLAN'. THE TERM BUILDER'S PLAN REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE NAME IMPLIES, THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION WITH THE UNDERSTANDING THAT THE CONTRACTOR POSSESSES SUCH SKILL, COMPETENCE & KNOWLEDGE OF APPLICABLE CODES & REGULATIONS, THE ARCHITECTURAL SERVICE PROVIDED IN THESE DRAWINGS IS LIMITED TO ROOM ARRANGEMENT, DIMENSION, STRUCTURAL DESIGN & CONSTRUCTION DETAILS AS INDICATED. THE FOLLOWING, UNLESS PROVIDED FOR IN THESE DRAWINGS, SHALL BE FURNISHED & COORDINATED BY THE CONTRACTOR OR OWNER & SHALLNOT BE PART OF THE SCOPE OF WORK OF THESE CONSTRUCTION DOCUMENTS:
- DEMOLITION OF ANY OR ALL EXISTING STRUCTURES, PAVEMENT OR TREES
- SITE ENGINEERING INCLUDING BUT NOT LIMITED TO: SITE GRADING, SOIL INVESTIGATIONS, ENVIRONMENTAL
- INVESTIGATIONS, SITE DRAINAGE, LANDSCAPING, DRIVEWAYS, RETAINING WALLS, UTILITIES, SEPTIC, WHERE APPLICABLE, AND OTHER IMPROVEMENTS OUTSIDE THE BUILDING ENVELOPE.
-FOUNDATION WALL DESIGN

NOTIFY THE ARCHITECT IF THE PROPOSED USE IS NOT IN ACCORDANCE WITH LOCAL & STATE REQUIREMENTS & PROVIDE THE ARCHITECT WITH ANY NECESSARY DOCUMENTATION INCLUDING ZONING, SETBACKS, ENVIROMENTAL REGULATIONS, OR ANY SIMILAR CONSTRAINTS WHICH MAY AFFECT THE PROJECT. HOWEVER, IN NO CASE SHALL ANY PART OF THE DWELLING BE LOCATED WITHIN 3'-0" OF A PROPERTY LINE WITHOUT APPROVAL OF THE ARCHITECT AND AUTHORITY HAVE JURISDICTION.

SELECTION OF APPROVED INTERIOR FINISHES MATERIALS, CABINETRY, HARDWARE, FURNISHINGS, & OTHER SIMILAR EQUIPMENT. STANDARDS OF QUALITY, PERFORMANCE & ACCEPTABLE MANUFACTURERS FOR PREFABRICATED SYSTEMS & ITEMS.

DESIGN OF HEATING, VENTILATION & AIR CONDITIONING, PLUMBING, GAS & ELECTRICAL SYSTEMS, INCLUDING PREPARATION OF REQUIRED DRAWINGS & COORDINATION WITH ARCHITECTURAL DRAWINGS. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT & EXTENT OF THE WORK. AS THE WORK PROGRESSES, THE OWNER & THE CONTRACTOR, AT NO EXTRA COST, SHALL MAKE MODIFICATIONS TO MAKE THE PARTS ALIGN. WHERE COMPLETE SIZES OR DIMENSIONS OF MEMBERS, CONNECTIONS, OR FASTENERS OF ANY ITEM ARE NOT INDICATED, DESIGN THE ITEM TO PRODUCE STRENGTH APPROPRIATE TO THE USE INTENDED.

DO NOT SCALE DRAWINGS. WRITTEN DIMENSION SHALL GOVERN.

CONTRACTOR SHALL CHECK VERIFY & MAINTAIN ALL DIMENSIONS, GRADES, LEVELS & OTHER CONDITIONS BEFORE PROCEEDING WITH FABRICATION & CONSTRUCTION. COORDINATE EXACT LOCATIONS OF EQUIPMENT, FIXTURES & OUTLETS WITH FINISHED ELEMENTS. WHERE NECESSARY OR WHERE SPECIFICALLY INDICATED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS & DETAILED COMPONENT DESIGN AS REQUIRED FOR THE PROPER FABRICATION, INSTALLATION, AND COORDINATION WITH OTHER TRADES.

SHOP DRAWINGS: CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR ALL SHOP FABRICATED ITEMS & WHERE CUSTOMARILY REQUIRED & SUBMIT FOUR SETS OF SHOP DRAWINGS FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE SHOP DRAWINGS FOR ACCURACY,COORDINATION WITH OTHER TRADES, & COMPLIANCE WITH THE CONTRACT DOCUMENTS BEFORE BEING SUBMITTED FOR APPROVAL. ARCHITECT'S OR ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL CONSTITUTE REVIEW & APPROVAL OF THE GENERAL ARRANGEMENT OF COMPONENTS TO COMPLY WITH THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS & IN NO WAY RELIEVES THE CONTRACTOR FROM HIS/ HER RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS & CONDITIONS TO INSURE A PROPER FIT UNDER FIELD CONDITIONS & SHALL MAKE ADJUSTMENTS AS REQUIRED TO MAKE PARTS ALIGN. ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION MUST BE PROPERLY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.

PRIOR TO PERFORMING ANY WORK, THE CONTRACTOR SHALL EXAMINE THE APPLICABLE CONDITIONS & SUBSTRATES & CORRECT ANY UNSATISFACTORY CONDITIONS BEFORE PROCEEDING WITH THE WORK. VERIFY THAT SUBSTRATE & BASE PLIES/ COATS ARE COMPATIBLE WITH NEW WORK. NOTIFY THE ARCHITECT PROMPTLY OF ANY MODIFICATIONS REQUIRED. WORK PERFORMED OVER ANY SURFACE CONSTITUTES ACCEPTANCE OF THAT SURFACE FOR THE SPECIFIED QUALITY OF THE WORK BEING PERFORMED THEREON. ANY CHANGES TO THE PLANS BY THE OWNER OR
CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE PERSONS MAKING SUCH CHANGES.

CUTTING AND PATCHING: INCLUDE ALL CUTTING & PATCHING FOR PENETRATIONS THROUGH FLOORS, WALLS CEILINGS AND ROOFS. DO NOT CUT OR NOTCH ANY STRUCTURAL MEMBER TO REDUCE ITS LOAD CARRYING CAPACITY OR FIRE RESISTANCE.

UNFORSEEN CONDITIONS: SHOULD UNFORSEEN CONDITIONS BE ENCOUNTERED THAT AFFECT DESIGN OR FUNCTION OF THE PROJECT, CONTRACTOR SHALL INVESTIGATE FULLY & SUBMIT AN ACCURATE, DETAILED REPORT TO THE ARCHITECT WITHOUT DELAY. WHILE AWAITING A RESPONSE, CONTRACTOR SHALL RESCHEDULE OPERATIONS AS REQUIRED TO AVOID DELAY OF OVERALL PROJECT.

PROVIDE TEMPORARY FACILITIES, SERVICE UTILITIES, & PROTECTION AS REQUIRED TO SAFELY EXECUTING ALL WORK. PROTECT ADJACENT CONSTRUCTION, AND INHABITANTS. COMPLY WITH ALL APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES INCLUDING, BUT NOT LIMITED TO PUBLIC UTILITIES. PROVIDE 24-HOUR NOTIFICATION OF ANY DISCONTINUITY OF UTILITY SERVICES WITH OWNER.

CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND LEGALLY DISPOSE OF ALL GARBAGE AND EXCESS MATERIALS FROM THE JOB SITE.

RECORD DRAWINGS: THE CONTRACTOR SHALL PREPARE & MAINTAIN A COMPLETE SET OF RECORD CONSTRUCTION DRAWINGS INDICATING ALL ACTUAL WORK, MODIFICATION & REVISIONS TO THE WORK DELINIATED ON THE CONSTRUCTIONS DRAWINGS AS WELL AS ANY CONCEALED CONSTRUCTION WORK. INCLUDE ANY OTHER INFORMATION WHICH WOULD BE HELPFUL TO THE OWNER.

INSURANCE: ALL CONTRACTORS & ALL SUB-CONTRACTORS SHALL TAKE OUT & MAINTAIN WORKMAN'S COMPENSATION INSURANCE, AND PUBLIC LIABILITY & PROPERTY DAMAGE INSURANCE ACCEPTABLE TO THE OWNER & THE AUTHORITIES HAVING JURISDICTION. AT PROJECT CLOSEOUT.

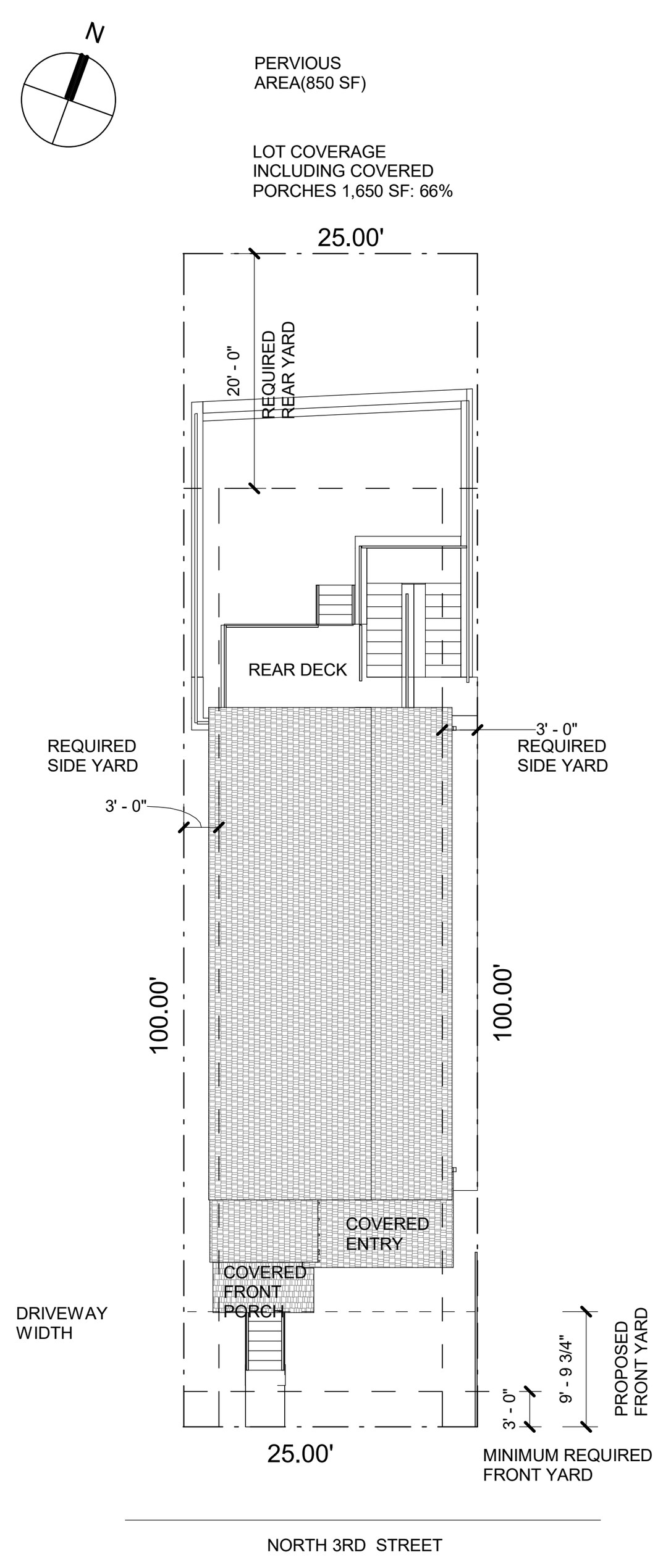
SUBSTANTIAL COMPLETION: CONTRACTOR SHALL PROCURE FINAL CERTIFICATE OF OCCUPANCY UPON COMPLETION OF THE PROJECT AND FORWARD SAME TO THE OWNER. CONTRACTOR SHALL CLEAN THE PREMISES, TEST APPLICABLE SYSTEMS, AND LEAVE READY FOR OCCUPANCY.

WARRANTIES: UNLESS OTHERWISE INDICATED, CONTRACTOR IS TO PROVIDE WRITTEN WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL STATE ALL WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES, AND ENFORCING AUTHORITIES AND THAT ALL WORK IS FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP.THIS IS IN ADDITION TO AND NOT A LIMITATION TO ANY PRODUCT MANUFACTURER'S PRODUCT WARRANTIES.
- ROOFING - 2 YEAR WARRANTY BY INSTALLER
- ROOFING - 25 YEAR STANDARD WARRANTY BY MANUFACTURER
- HOME OWNERS WARRANTY (HOW) - WHERE APPLICABLE IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION

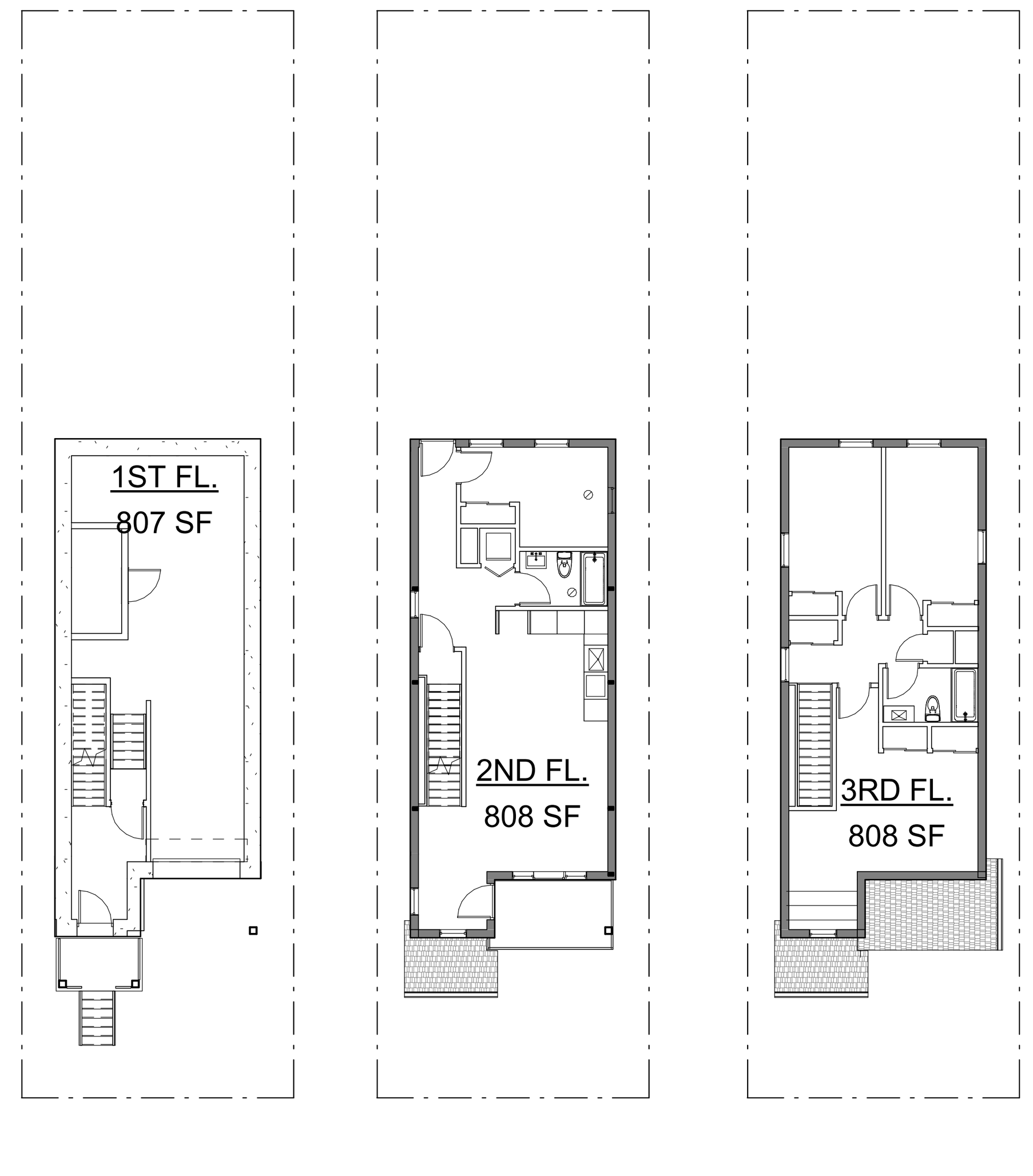
ALL ELECTRICAL WORK SHALL BE CARRIED OUT BY A LICENSED ELECTRICIAN ONLY. ALL WORK SHALL CONFORM TO THE PROVISIONS OF THE NATIONAL ELECTRIC CODE OF NFPA, LATEST EDITION.

ALL PLUMBING WORK SHALL BE CARRIED OUT BY A LICENSED PLUMBER. ALL EQUIPMENT & FIXTURES TO CONFORM TO THE NATIONAL STANDARD PLUMBING CODE, LATEST EDITION.

SITE PLAN — SCALE: 1/16" = 1'-0"



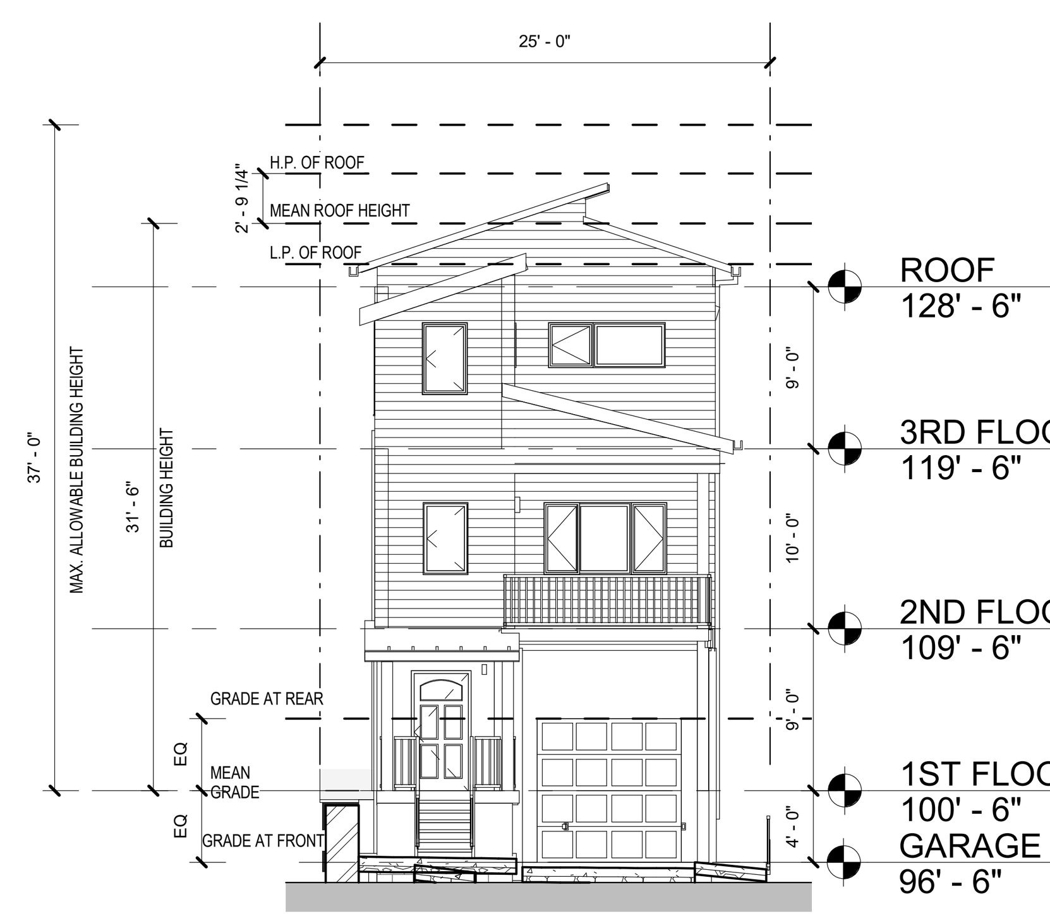
FLOOR AREA CALCULATIONS — SCALE: 1/16" = 1'-0"



DRAWING LIST

T-1.0	COVER SHEET
A-1.0	FRAMING PLAN - FIRST FLOOR
A-1.1	FRAMING PLANS-2ND FL, 3RD FL, ROOF
A-2.0	CONSTRUCTION FLOOR PLANS
A-3.0	REFLECTED CEILING PLAN / ELECTRICAL PLANS
A-4.0	NORTH AND SOUTH ELEVATIONS, BUILDING CROSS SECTIONS
A-4.1	EAST AND WEST ELEVATIONS
A-4.2	LONGITUDINAL BUILDING SECTIONS
A-5.0	EXTERIOR WALL DETAILS
A-5.1	EXTERIOR WALL AND ROOF DETAILS
A-5.2	TYPICAL FRAMING DETAILS
A-6.0	ENERGY STAR NOTES
A-7.0	PLUMBING RISER DIAGRAMS

ZONING HEIGHT DIAGRAM - SOUTH ELEVATION



ZONING:

FIRST WARD REDEVELOPMENT DISTRICT: RA-2, SINGLE FAMILY DWELLING

101 NORTH THIRD STREET:
BLOCK: 409
LOT: 10
LOT DIMENSIONS: 25.00' X 100.00'
LOT AREA: 2,500 SF

FIRST FLOOR: 807 SF
SECOND FLOOR: 808 SF
THIRD FLOOR: 808 SF

TOTAL SF: 2,423 SF

ZONING SECTION	REQUIREMENTS	COMPLIANCE
PRINCIPAL PERMITTED USES:	SINGLE FAMILY DWELLINGS	(1)SINGLE FAMILY RESIDENCE - COMPLIES
ACCESSORY USES : PARKING	3 BEDROOMS IN DWELLING: 2 PARKING SPACES REQUIRED	2 PARKING SPACES PROVIDE - COMPLIES
MIMIMUM LOT WIDTH:	25'-0" WIDE	LOT WIDTH: 25'-0" WIDE - COMPLIES
MIMIMUM FRONT YARD SETBACK:	3'-0" MINIMUM, OR PREVAILING CONDITIONS WITHIN 200'-0" ON EITHER SIDE UP TO 7'-0" MAXIMUM	18'-9"
MINIMUM SIDE YARD SETBACK:	3'-0"	3"-0" AT BOTH SIDE YARDS - COMPLIES
MAXIMUM SIDE YARD SETBACK:	MAXIMUM SIDE YARD SETBACK(EITHER SIDE): 12'-0",	MAXIMUM SIDE YARD SETBACK, 3'-0" COMPLIES
MINIMUM REAR YARD SETBACK:	MINIMUM REAR YARD SETBACK: 20'-0"	REAR YARD SETBACK: EXCEEDS 20'-0", COMPLIES
MAXIMUM BUILDING HEIGHT:	MAXIMUM BUILDING HEIGHT: THIRTY-FIVE(35) FEET AND 2 1/2 STORIES	BUILDING HEIGHT: 31'-3" AND THREE(3) STORIES
MAXIMUM BUILDING COVERAGE	MAXIMUM BUILDING COVERAGE: SIXTY PERCENT(60%)	MAXIMUM BUILDING COVERAGE: 2,500 SF X .6 = 1,500 ACTUAL = 808 SF, 32.32% (COMPLIES)
MAXIMUM IMPERVIOUS SURFACE COVERAGE	MAXIMUM IMPERVIOUS SURFACE COVERAGE: EIGHTY PERCENT(80%)	MAXIMUM IMPERVIOUS SURFACE COVERAGE: EIGHTY PERCENT(80%) X 2,500 SF = 2,000 SF IMPERVIOUS AREA = 2,500 -850 SF = 1,650 SF, 66.00 % COMPLIES

SITE IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE

FIRE RESISTANT CONSTRUCTION

FIRE-RESISTANT CONSTRUCTION
EXTERIOR WALLS. PER R302.1 CONSTRUCTION, PROJECTIONS, OPENINGS AND PENETRATIONS OF *EXTERIOR WALLS* OF *DWELLINGS* AND ACCESSORY BUILDINGS SHALL COMPLY WITH TABLE R302.1; (NON-SPRINKLERED).**EXCEPTIONS:** WALLS, PROJECTIONS, OPENINGS OR PENETRATIONS IN WALLS PERPENDICULAR TO THE LINE USED TO DETERMINE THE *FIRE SEPARATION DISTANCE*, FOUNDATION VENTS INSTALLED IN COMPLIANCE WITH THIS CODE ARE PERMITTED.

EXTERIOR WALL ELEMENT	MIMIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
WALLS		
FIRE-RESISTANCE RATED	1 HOUR(FROM BOTH SIDES)	< 5'-0"
NOT FIRE-RESISTANCE RATED	0 HOURS	> 5'-0"
PROJECTIONS		
NOT ALLOWED	N/A	< 2'-0"
FIRE-RESISTANCE RATED	1 HOUR ON THE UNDERSIDE	2'-0" TO < 5'-0"
NOT FIRE-RESISTANCE RATED	0 HOURS	> 5'-0"
OPENINGS IN WALLS		
NOT ALLOWED	N/A	< 3'-0"
25% MAXIMUM OF WALL AREA	0 HOURS	3'-0"
PENETRATIONS		
ALL	COMPLY WITH SECTION R302.4	< 3'-0"
	NONE REQUIRED	3'-0"

DWELLING-GARAGE OPENING AND PENETRATION PROTECTION. PER R302.5 OPENINGS AND PENETRATIONS THROUGH THE WALLS OR CEILINGS SEPARATING THE *DWELLING* FROM THE GARAGE SHALL BE IN ACCORDANCE WITH SECTIONS R302.5.1 THROUGH R302.5.3.

DWELLING-GARAGE FIRE SEPARATION. PER R302.6 THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT *DWELLING UNIT* WALL.

PER TABLE R302.6, DWELLING GARAGE SEPARATION:

FROM THE RESIDENCE AND ATTICS: NOT LESS THAN 1/ 2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE

FROM HABITABLE ROOMS ABOVE THE GARAGE: CONSTRUCT WITH NOT LESS THAN A ONE-HOUR FIRE-RESISTANCE RATING (SEE N.J.U.C.C. FTO-13)

STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES: USED FOR SEPARATION REQUIRED BY THIS SECTION CONSTRUCTED WITH NOT LESS THAN A ONE-HOUR FIRE-RESISTANCE RATING (SEE N.J.U.C.C. FTO-13)

GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT NOT LESS THAN 1/ -INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA

UNDER-STAIR PROTECTION. PER R302.7, ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2 -INCH GYPSUM BOARD.

FLAME SPREAD INDEX AND SMOKE-DEVELOPED INDEX FOR WALL AND CEILING FINISHES. PER R302.9 FLAMESPREAD AND SMOKE DEVELOPED INDEXES FOR WALL AND CEILING FINISHES SHALL BE IN ACCORDANCE WITH SECTIONS R302.9.1 THROUGH R302.9.4

FIREBLOCKING. PER R302.11, IN COMBUSTIBLE CONSTRUCTION, FIRE- BLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP *STORY* AND THE ROOF SPACE.

COMBUSTIBLE INSULATION CLEARANCE. PER R302.14 , COMBUSTIBLE INSULATION SHALL BE SEPARATED NOT LESS THAN 3" FROM RECESSED LUMINAIRES, FAN MOTORS AND OTHER HEAT-PRODUCING DEVICES.

THERMAL BARRIER. PER R316.4, UNLESS OTHERWISE ALLOWED IN SECTION FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN *APPROVED* THERMAL BARRIER OF NOT LESS THAN 1/ -INCH (12.7 MM) GYPSUM WOOD STRUCTURAL PANEL OR A MATERIAL THAT IS TESTED IN ACCORDANCE WITH AND MEETS THE ACCEPTANCE CRITERIA OF BOTH THE TEMPERATURE TRANSMISSION FIRE TEST AND THE INTEGRITY FIRE TEST OF NFPA 275

HABITABLE ROOMS AND EGRESS

HABITABLE ROOMS. PER R303.1 ,HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8% OF THE FLOOR AREA OF SUCH ROOMS. NATURAL *VENTILATION* SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER *APPROVED* OPENINGS TOACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4% OF THE FLOOR AREA BEING VENTILATED.

MINIMUM AREA. PER R304.1, HABITABLE ROOMS SHALL HAVE A FLOOR AREA OF NOT LESS THAN 70 SQUARE FEET. EXCEPTION: KITCHENS

MINIMUM DIMENSIONS. PER R304.2, HABITABLE ROOMS SHALL BE NOT LESS THAN 7 FEET IN ANY HORIZONTAL DIMENSION. **EXCEPTION**: KITCHEN

BATHROOMS. PER R303.3 BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE- HALF OF WHICH MUST BE OPENABLE. **EXCEPTION**: THE GLAZED AREAS SHALL NOT BE REQUIRED WHERE ARTIFICIAL LIGHT AND A LOCAL EXHAUST SYSTEM ARE PROVIDED. THE MINIMUM LOCAL EXHAUST RATES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION M1507. EXHAUST AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS.

MINIMUM CEILING HEIGHT. R305.1 *HABITABLE SPACE*, HALLWAYS AND PORTIONS OF *BASEMENTS* CONTAINING THESE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0". BATHROOMS, TOILET ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 6'-8".

GLAZING ADJACENT TO STAIRS AND RAMPS. PER R308.4.6, GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. WHERE A RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34" TO 38" ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAR FOOT WITHOUT CONTACTING THE GLASS AND HAVE A CROSS-SECTIONAL HEIGHT OF NOT LESS THAN 1 ½"

GLAZING ADJACENT TO THE BOTTOM STAIR LANDING. R308.4.7 PER GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60-INCH HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

GARAGES AND CARPORTS PER R309.1, FLOOR SURFACE. GARAGE FLOOR SURFACES SHALL BE OF *APPROVED* NONCOMBUSTIBLE MATERIAL. THE AREA OF FLOOR USED FOR PARKING OF AUTOMOBILES OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY.

EMERGENCY ESCAPE AND RESCUE OPENINGS. PER R310.1 EVERY SLEEPING ROOM SHALL HAVE NOT LESS THAN ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WHERE *BASEMENTS* CONTAIN ONE OR MORE SLEEPING ROOMS, AN EMERGENCY ESCAPE AND RESCUE OPENING SHALL BE REQUIRED IN EACH SLEEPING ROOM. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY, OR TO A *YARD* OR COURT THAT OPENS TO A PUBLIC WAY.

MINIMUM OPENING AREA. PER R310.2.1, EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. THE NET CLEAR HEIGHT OPENING SHALL BE NOT LESS THAN 24" AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20". EXCEPTION: *GRADE* FLOOR OR BELOW *GRADE* OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FT.

EGRESS DOOR. PER R311.2, NOT LESS THAN ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED, AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32"WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90%. THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78"IIN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. OTHER DOORS SHALL NOT BE REQUIRED TO COMPLY WITH THESE MINIMUM DIMENSIONS. EGRESS DOORS SHALL BE READILY OPENABLE FROM INSIDE THE DWELLING WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT

HALLWAYS. PER R311.6, THE WIDTH OF A HALLWAY SHALL BE NOT LESS THAN 3 FEET.

CLIMACTIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX
	Speed (mph)	Topographic Effects	Special Wind Region	Wind-borne Debris Zone		Weathering	Frost-line depth	Termite				
25 psf	115 mph	N/A	N/A	N/A	N/A	Severe	3'-0"	Moderate to heavy	13 F	NO	N/A	LESS THAN 1500

STAIRS AND FALL PROTECTION

VERTICAL RISE. PER R311.7.3A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE LARGER THAN 147 INCHES BETWEEN FLOOR LEVELS OR LANDINGS.

STAIR WIDTH. PER R311.7.1, STAIRWAYS SHALL BE NOT LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM. HANDRAILS SHALL NOT PROJECT MORE THAN 4 ½" ON EITHER SIDE OF THE STAIRWAY AND THE CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS AND LANDINGS, SHALL BE NOT LESS THAN 31" WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27"(WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES)

RISERS. PER R311.7.5.1, THE RISER HEIGHT SHALL BE NOT MORE THAN 8 ½" IN HEIGHT.

TREADS. PER R311.7.5.2, THE TREAD DEPTH SHALL BE NOT LESS THAN 9"

VERTICAL RISE. PER R311.7.3A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE LARGER THAN 147 INCHES BETWEEN FLOOR LEVELS OR LANDINGS.

HANDRAIL HEIGHT. PER R311.7.8.1, HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE NOT LESS THAN 30 INCHES AND NOT MORE THAN 38".

STAIR HEADROOM. PER R311.7.2, THE HEADROOM IN STAIRWAYS SHALL BE NOT LESS THAN 6'- 8" MEASURED VERTI- CALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM ON THAT PORTION OF THE STAIRWAY

GUARDS AND FALL PROTECTION PER R312.1.2, REQUIRED *GUARDS* AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES OR LANDINGS, SHALL BE NOT LESS THAN 36" IN HEIGHT AS MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE OR THE LINE CONNECTING THE LEADING EDGES OF THE TREADS. EXCEPTIONS: *GUARDS* ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 34" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS. WHERE THE TOP OF THE *GUARD* SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE *GUARD* SHALL BE NOT LESS THAN 34 " AND NOT MORE THAN 38" AS MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

WINDOW FALL PROTECTION. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS R312.2.1 AND R312.2.2.

SMOKE AND CO ALARMS

SMOKE ALARMS. PER R314.3. SMOKE ALARMS SHALL BE INSTALLED IN THE FOL- LOWING LOCATIONS: IN EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, ON EACH ADDITIONAL *STORY* OF THE *DWELLING*, INCLUDING *BASEMENTS* AND *HABITABLE ATTICS* AND NOT INCLUDING CRAWL SPACES AND UNINHABITABLE *ATTICS*. IN *DWELLINGS* OR *DWELL- ING UNITS* WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL *STORY* BELOW THE UPPER LEVEL. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3'-0" HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY SECTION R314.3.

CARBON MONOXIDE ALARMS. PER R315.2.1, NEW CONSTRUCTION. FOR NEW CONSTRUCTION, CARBON MONOXIDE ALARMS SHALL BE PROVIDED IN DWELLING UNITS WHERE EITHER OR BOTH OF THE FOLLOWING CONDITIONS EXIST: THE *DWELLING UNIT* CONTAINS A FUEL-FIRED *APPLIANCE OR* THE *DWELLING UNIT* HAS AN ATTACHED GARAGE WITH AN OPENING THAT COMMUNICATES WITH THE DWELLING UNIT
PER R315.3 CARBON MONOXIDE ALARMS IN *DWELLING UNITS* SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

DESIGN LOAD CRITERIA

DESIGN LOADS: PER SECTION R301.1, BUILDINGS AND STRUCTURES, AND PARTS THEREOF, SHALL BE CONSTRUCTED TO SAFELY SUPPORT ALL LOADS, INCLUDING DEAD LOADS, LIVE LOADS, ROOF LOADS, FLOOD LOADS, SNOW LOADS, WIND LOADS AND SEISMIC LOADS AS PRESCRIBED BY CODE. THE CONSTRUCTION OF BUILDINGS AND STRUCTURES IN ACCORDANCE WITH THE PROVISIONS OF THE CODE SHALL RESULT IN A SYSTEM THAT PROVIDES A COMPLETE LOAD PATH THAT MEETS THE REQUIREMENTS FOR THE TRANSFER OF LOADS FROM THEIR POINT OF ORIGIN THROUGH THE LOAD-RESISTING ELEMENTS TO THE FOUNDATION.

ALTERNATIVE PROVISIONS. AS AN ALTERNATIVE TO THE REQUIREMENTS IN SECTION R301.1, THE FOLLOWING STANDARDS ARE PERMITTED SUBJECT TO THE LIMITATIONS OF THIS CODE AND THE LIMITATIONS THEREIN. WHERE ENGINEERED DESIGN IS USED IN CONJUNCTION WITH THESE STANDARDS, THE DESIGN SHALL COMPLY WITH THE *INTERNATIONAL BUILDING CODE AND* AF&PA *WOOD FRAME CONSTRUCTION MANUAL*(WFCM). CONSTRUCTION SYSTEMS. AS PER SECTION R301.1.2, THE REQUIREMENTS FOR THIS PROJECT ARE BASED ON PLATFORM CONSTRUCTION FOR LIGHT-FRAME BUILDINGS.

SEISMIC PROVISIONS: PER R301.2.2 DETACHED ONE AND TWO FAMILY DWELLINGS AND ATTACHED SINGLEFAMILY TOWNHOUSES ARE EXEMPT FROM THE SEISMIC REQUIREMENTS OF THIS CODE.

SNOW LOADS. PER R301.2.3 WOOD-FRAMED CONSTRUCTION, COLD- FORMED, STEEL-FRAMED CONSTRUCTION AND MASONRY ANDCONCRETE CONSTRUCTION, AND STRUCTURAL INSULATED PANEL CONSTRUCTION IN REGIONS WITH GROUND SNOW LOADS 70 POUNDS PER SQUARE FOOT OR LESS, SHALL BE IN ACCORDANCE WITH CHAPTERS 5, 6 AND 8

R301.2.4 FLOODPLAIN CONSTRUCTION. PROJECT LOCATION IS NOT WITHIN A FLOOD PLAIN

STORY HEIGHT. PER 301.3 THE WIND AND SEISMIC PROVISIONS OF THIS CODE SHALL APPLY TO BUILDINGS WITH *STORY HEIGHTS* NOT EXCEEDING THE FOLLOWING: FOR WOOD WALL FRAMING, THE *STORY HEIGHT* SHALL NOT EXCEED 11'- 7" AND THE LATERALLY UNSUPPORTED BEARING WALL STUD HEIGHT PERMITTED BY TABLE R602.3(5). FOR INSULATING CONCRETE FORM WALLS, THE MAXIMUM STORY HEIGHT SHALL NOT EXCEED 11'-7" AND THE MAXIMUM UNSUPPORTED WALL HEIGHT PER *STORY* AS PER- MITTED BY SECTION R608 TABLES SHALL NOT EXCEED 10'-0".

LIVE LOAD. R301.5 THE MINIMUM UNIFORMLY DISTRIBUTED LIVE LOAD SHALL BE AS PROVIDED IN TABLE R301.5.

USE	LIVE LOAD
UNINHABITABLE ATTICS WITHOUT STORAGE	10 PSF
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20 PSF
DECKS	40 PSF
GUARDS AND HANDRAILS	200 LBSS OR 50 PSF
GUARD IN-FILL COMPONENTS	50 PSF
PASSENGER VEHICLE GARAGES	50 PSF
ROOMS OTHER THAN SLEEPING ROOMS	40 PSF
SLEEPING ROOMS	30 PSF
STAIRS	40 PSF

ROOF LOAD. PER R301.6 THE ROOF SHALL BE DESIGNED FOR THE LIVE LOAD INDICATED IN TABLE R301.6 OR THE SNOW LOAD INDICATED IN TABLE R301.2(1), WHICHEVER IS GREATER

ROOF SLOPE	TRIBUTARY LOADED AREA IN SQUARE FEET FOR ANY STRUCTURAL MEMBER		
	0 TO 200	201 TO 600	OVER 600
FLAT OR RISE LESS THAN 4 INCHES PER FOOT (1:3)	20	16	12
RISE 4 INCHES PER FOOT (1:3) TO LESS THAN 12 INCHES PER FOOT (1:1)	16	14	12
RISE 12 INCHES PER FOOT (1:1) AND GREATER	12	12	12

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PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

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ISSUE/REVISION		DATE
6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

DRAWING TITLE

COVER SHEET

DRAWING NO.

T-1.0

DATE: 06/09/2023
SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591

GENERAL FOUNDATION NOTES

REQUIREMENTS. PER R401.2 FOUNDATION CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IN ACCORDANCE WITH SECTION R301 AND OF TRANSMITTING THE RESULTING LOADS TO THE SUPPORTING SOIL. FILL SOILS THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

DRAINAGE. PER R401.3 SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER *APPROVED* POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. *LOTS* SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE *GRADE* SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'-0"

MASONRY. PER R402.4 MASONRY SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THIS CHAPTER AND SHALL HAVE A MIN- IMUM SPECIFIED COMPRESSIVE STRENGTH OF 1,500 PSI.

GENERAL. PER R403.1, ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS SOLID OR FULLY GROUTED MASONRY OR CONCRETE FOOTINGS, CRUSHED STONE FOOTINGS, WOOD FOUNDATIONS, OR OTHER *APPROVED* STRUCTURAL SYSTEMS WHICH SHALL BE OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS ACCORDING TO SECTION R301 AND TO TRANSMIT THE RESULTING LOADS TO THE SOIL WITHIN THE LIMITATIONS AS DETERMINED FROM THE CHARACTER OF THE SOIL. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL.

WEATHERING POTENTIAL: CONCRETE FOUNDATIONS STRENGTHA (F¢)	SEVERE MINIMUM SPECIFIED COMPRESSIVE
BASEMENT WALLS, FOUNDATIONS AN OTHER CONCRETE NOT EXPOSED TO THE WEATHER	3,500 PSI
BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS	3,500 PSI
BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER	3,500 PSI
PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER, AND GARAGE FLOOR SLABS	3,500 PSI

BACKFILL PLACEMENT. PER R404.1.7, BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO THE FLOOR ABOVE, OR HAS BEEN SUFFI- CIENTLY BRACED TO PREVENT DAMAGE BY THE BACKFILL.

WEATHERPROOFING AND DAMPROOFING. PER R406.1, WALLS OR PORTIONS THEREOF THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE WATERPROOFED AND DAMPPROOFED IN ACCORDANCE WITH THIS SEC- TION, WITH THE EXCEPTION OF THOSE SPACES CONTAINING GROUPS OTHER THAN RESIDENTIAL AND INSTITUTIONAL WHERE SUCH OMISSION IS NOT DETRIMENTAL TO THE BUILDING OR OCCUPANCY.

STORY ABOVE GRADE PLANE. PER R406.1.1 , WHERE A BASEMENT IS CONSIDERED A STORY ABOVE GRADE AND THE FINISHED GROUND LEVEL ADJACENT TO THE BASEMENT WALL IS BELOW THE BASEMENT FLOOR ELEVATION FOR 25 PERCENT OR MORE OF THE PERIMETER, THE FLOOR AND WALLS SHALL BE DAMPPROOFED IN ACCORDANCE WITH SECTION R406.2 AND A FOUNDATION DRAIN SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R406.4.1. THE FOUNDATION DRAIN SHALL BE INSTALLED AROUND THE PORTION OF THE PERIMETER WHERE THE BASEMENT FLOOR IS BELOW GROUND LEVEL. THE PRO

DAMPPROOFING. PER R406.2, WHERE HYDROSTATIC PRESSURE WILL NOT OCCUR, FLOORS AND WALLS FOR OTHER THAN WOOD FOUNDATION SYS- TEMS SHALL BE DAMPPROOFED IN ACCORDANCE WITH THIS SECTION. PER R406.2.1 FLOORS, DAMPPROOFING MATERIALS FOR FLOORS SHALL BE INSTALLED BETWEEN THE FLOOR AND THE BASE COURSE REQUIRED BY SECTION R406.4.1. WHERE INSTALLED BENEATH THE SLAB, DAMPPROOFING SHALL CONSIST OF NOT LESS THAN 6-MIL (0.006") POLY-ETHYLENE WITH JOINTS LAPPED NOT LESS THAN 6" OR OTHER APPROVED METHODS OR MATERIALS. WHERE PER-MITTED TO BE INSTALLED ON TOP OF THE SLAB, DAMPPROOFING SHALL CONSIST OF MOPPED-ON BITUMEN, NOT LESS THAN 4-MIL (0.004") POLYETHYLENE, OR OTHER APPROVED METHODS OR MATERIALS. JOINTS IN THE MEMBRANE SHALL BE LAPPED AND SEALED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER DAMPPROOFING MATERIALS FOR WALLS SHALL BE INSTALLED ON THE EXTERIOR SURFACE OF THE WALL, AND SHALL EXTEND FROM THE TOP OF THE FOOTING TO ABOVE GROUND LEVEL. DAMPPROOFING SHALL CONSIST OF A BITUMINOUS MATERIAL, 3 POUNDS PER SQUARE YARD (16 N/M2) OF ACRYLIC MODIFIED CEMENT, 1/8" COAT OF SURFACE-BONDING MORTAR COMPLYING WITH ASTM C887, ANY OF THE MATERIALS PERMITTED FOR WATERPROOFING BY SECTION R406.3.2 OR OTHER APPROVED METHODS OR MATERIALS.

WATERPROOFING. R406.3 WHERE THE GROUND-WATER INVESTIGATION INDICATES THAT A HYDROSTATIC PRESSURE CONDITION EXISTS, AND THE DESIGN DOES NOT INCLUDE A GROUND-WATER CONTROL SYSTEM AS DESCRIBED IN SECTION R406.1.3, WALLS AND FLOORS SHALL BE WATERPROOFED IN ACCORDANCE WITH THIS SECTION. PER R406.3.1, FLOORS REQUIRED TO BE WATERPROOFED SHALL BE OF CONCRETE AND DESIGNED AND CONSTRUCTED TO WITHSTAND THE HYDROSTATIC PRESSURES TO WHICH THE FLOORS WILL BE SUBJECTED. WATERPROOFING SHALL BE ACCOMPLISHED BY PLACING A MEMBRANE OF RUBBERIZED ASPHALT, BUTYL RUBBER, FULLY ADHERED/ FULLY BONDED HDPE OR POLYOLEFIN COMPOSITE MEMBRANE OR NOT LESS THAN 6-MIL (0.006") POLYVINYL CHLORIDE WITH JOINTS LAPPED NOT LESS THAN 6" OR OTHER APPROVED MATERIALS UNDER THE SLAB. JOINTS IN THE MEMBRANE SHALL BE LAPPED AND SEALED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PER R406.3.2, WALLS REQUIRED TO BE WATERPROOFED SHALL BE OF CONCRETE OR MASONRY AND SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE HYDROSTATIC PRESSURES AND OTHER LATERAL LOADS TO WHICH THE WALLS WILL BE SUBJECTED. WATERPROOFING SHALL BE APPLIED FROM THE BOTTOM OF THE WALL TO NOT LESS THAN 12 INCHES (305 MM) ABOVE THE MAXI- MUM ELEVATION OF THE GROUND-WATER TABLE. THE REMAINDER OF THE WALL SHALL BE DAMPPROOFED IN ACCORDANCE WITH SECTION R406.2.2. WATERPROOFING SHALL CONSIST OF TWO-PLY HOT- MOPPED FELTS, NOT LESS THAN 6-MIL (0.006") POLYVINYL CHLORIDE, 40-MIL (0.040") POLYMER-MODIFIED ASPHALT, 6-MIL (0.006 INCH; 0.152 MM) POLY- ETHYLENE OR OTHER APPROVED METHODS OR MATERIALS CAPABLE OF BRIDGING NONSTRUCTURAL CRACKS. JOINTS IN THE MEMBRANE SHALL BE LAPPED AND SEALED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONCRETE FLOORS (ON GROUND)- SECTION R506

GENERAL. PER R506.1,CONCRETE SLAB-ON-GROUND FLOORS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION OR ACI 332. FLOORS SHALL BE A MINIMUM 3 ½" THICK. THE SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS SET FORTH IN SECTION R402.2.

SITE PREPARATION. PER R506.2, THE AREA WITHIN THE FOUNDATION WALLS SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED.

FILL. PER R506.2.1, FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ENSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL AND 8" FOR EARTH.

BASE. PER R506.2.2, A 4-INCH-THICK BASE COURSE CONSISTING OF CLEAN GRADED SAND, GRAVEL, CRUSHED STONE, CRUSHED CONCRETE OR CRUSHED BLAST-FURNACE SLAG PASSING A 2 ½" SIEVE SHALL BE PLACED ON THE PREPARED SUB- GRADE WHERE THE SLAB IS BELOW GRADE

VAPOR RETARDER. PER R506.2.3, A 6-MIL (0.006") POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUBGRADE WHERE NO BASE COURSE EXISTS. EXCEPTION: THE VAPOR RETARDER IS NOT REQUIRED FOR THE FOLLOWING: GARAGES, UTILITY BUILDINGS AND OTHER UNHEATED ACCESSORY STRUCTURES, FOR UNHEATED STORAGE ROOMS HAVING AN AREA OF LESS THAN 70 SQUARE FEET AND CARPORTS, DRIVEWAYS, WALKS, PATIOS AND OTHER FLATWORK NOT LIKELY TO BE ENCLOSED AND HEATED AT A LATER DATE.

EXTERIOR WALL FRAMING NOTES

SAWN LUMBER. PER R602.1.1, SAWN LUMBER SHALL BE IDENTIFIED BY A GRADE MARK OF AN ACCREDITED LUMBER GRADING OR INSPECTION AGENCY AND HAVE DESIGN VALUES CERTIFIED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20. IN LIEU OF A GRADE MARK, A CERTIFICATION OF INSPECTION ISSUED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THE REQUIRE- MENTS OF THIS SECTION SHALL BE ACCEPTED.

WOOD STRUCTURAL PANELS. PER. R602.1.8 WOOD STRUCTURAL PANEL SHEATHING SHALL CONFORM TO DOC PS 1, DOC PS 2 OR, WHEN MANUFACTURED IN CANADA, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED FOR GRADE, BOND CLASSIFICATION, AND PER- FORMANCE CATEGORY BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.

PARTICLEBOARD. PER R602.1.9, PARTICLEBOARD SHALL CONFORM TO ANSI A208.1. PARTICLEBOARD SHALL BE IDENTIFIED BY THE GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY

FIBERBOARD. PER R602.1.10, FIBERBOARD SHALL CONFORM TO ASTM C208. FIBERBOARD SHEATHING, WHERE USED STRUCTURALLY, SHALL BE IDENTIFIED BY AN APPROVED AGENCY AS CONFORMING TO ASTM C208.

STUD GRADE. PER R602.2, STUDS SHALL BE A MINIMUM NO. 3, STANDARD OR STUD GRADE LUMBER. EXCEPTION: BEARING STUDS NOT SUPPORTING FLOORS AND NON- BEARING STUDS SHALL BE PERMITTED TO BE UTILITY GRADE LUMBER, PROVIDED THE STUDS ARE SPACED IN ACCORDANCE WITH TABLE R602.3(5).

DESIGN AND CONSTRUCTION. PER R602.3, EXTERIOR WALLS OF WOOD- FRAME CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THIS CHAPTER AND FIGURES R602.3(1) AND R602.3(2), OR IN ACCORDANCE WITH AWC NDS. COMPONENTS OF EXTERIOR WALLS SHALL BE FASTENED IN ACCORDANCE WITH TABLES R602.3(1) THROUGH R602.3(4). WALL SHEATHING SHALL BE FASTENED DIRECTLY TO FRAMING MEMBERS AND, WHERE PLACED ON THE EXTERIOR SIDE OF AN EXTERIOR WALL, SHALL BE CAPABLE OF RESISTING THE WIND PRESSURES LISTED IN TABLE R301.2(2) ADJUSTED FOR HEIGHT AND EXPOSURE USING TABLE R301.2(3) AND SHALL CONFORM TO THE REQUIREMENTS OF TABLE R602.3(3). WALL SHEATHING USED ONLY FOR EXTERIOR WALL COVERING PURPOSES SHALL COMPLY WITH SECTION R703. STUDS SHALL BE CONTINUOUS FROM SUPPORT AT THE SOLE PLATE TO A SUPPORT AT THE TOP PLATE TO RESIST LOADS PERPENDICULAR TO THE WALL. THE SUPPORT SHALL BE A FOUNDATION OR FLOOR, CEILING OR ROOF DIAPHRAGM OR SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

STUD SIZE, HEIGHT AND SPACING. PER R602.3.1, THE SIZE, HEIGHT AND SPACING OF STUDS SHALL BE IN ACCORDANCE WITH TABLE R602.3.(5). EXCEPTIONS: UTILITY GRADE STUDS SHALL NOT BE SPACED MORE THAN 16 INCHES (406 MM) ON CENTER, SHALL NOT SUPPORT MORE THAN A ROOF AND CEILING, AND SHALL NOT EXCEED 8 FEET (2438 MM) IN HEIGHT FOR EXTERIOR WALLS AND LOAD-BEARING WALLS OR 10 FEET (3048 MM) FOR INTERIOR NONLOAD-BEARING WALLS.

TOP PLATE. PER R602.3.2, WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET NOT LESS THAN 24 INCHES). JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STUDS. **EXCEPTION:** A SINGLE TOP PLATE USED AS AN ALTERNATIVE TO A DOUBLE TOP PLATE SHALL COMPLY WITH THE FOLLOWING: THE SINGLE TOP PLATE SHALL BE TIED AT CORNERS, INTER- SECTING WALLS, AND AT IN-LINE SPLICES IN STRAIGHT WALL LINES IN ACCORDANCE WITH TABLE R602.3.2. THE RAFTERS OR JOISTS SHALL BE CENTERED OVER THE STUDS WITH A TOLERANCE OF NOT MORE THAN 1 INCH. OMISSION OF THE TOP PLATE IS PERMITTED OVER HEADERS WHERE THE HEADERS ARE ADEQUATELY TIED TO ADJACENT WALL SECTIONS IN ACCORDANCE WITH TABLE R602.3.2.

BEARING STUDS. PER R602.3.3, WHERE JOISTS, TRUSSES OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH MEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BENEATH. **EXCEPTIONS**: THE TOP PLATES ARE TWO 2-INCH BY 6-INCH OR TWO 3-INCH BY 4-INCH MEMBERS, A THIRD TOP PLATE IS INSTALLED, OR SOLID BLOCKING EQUAL IN SIZE TO THE STUDS IS INSTALLED TO REINFORCE THE DOUBLE TOP PLATE.

BOTTOM (SOLE) PLATE. PER R602.3.4, STUDS SHALL HAVE FULL BEARING ON A NOMINAL 2-BY OR LARGER PLATE OR SILL HAVING A WIDTH NOT LESS THAN TO THE WIDTH OF THE STUDS.

INTERIOR LOAD-BEARING WALLS. PER R602.4, INTERIOR LOAD-BEARING WALLS SHALL BE CONSTRUCTED, FRAMED AND FIREBLOCKED AS SPECIFIED FOR EXTERIOR WALLS.

INTERIOR NONBEARING WALLS. PER R602.5, INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED WITH 2" BY 3" STUDS SPACED 24" ON CENTER OR, WHERE NOT PART OF A *BRACED WALL LINE*, 2" BY 4" FLAT STUDS SPACED AT 16 INCHES (ON CENTER. INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH NOT LESS THAN A SINGLE TOP PLATE. INTERIOR NONBEARING WALLS SHALL BE FIREBLOCKED IN ACCORDANCE WITH SECTION R602.8.

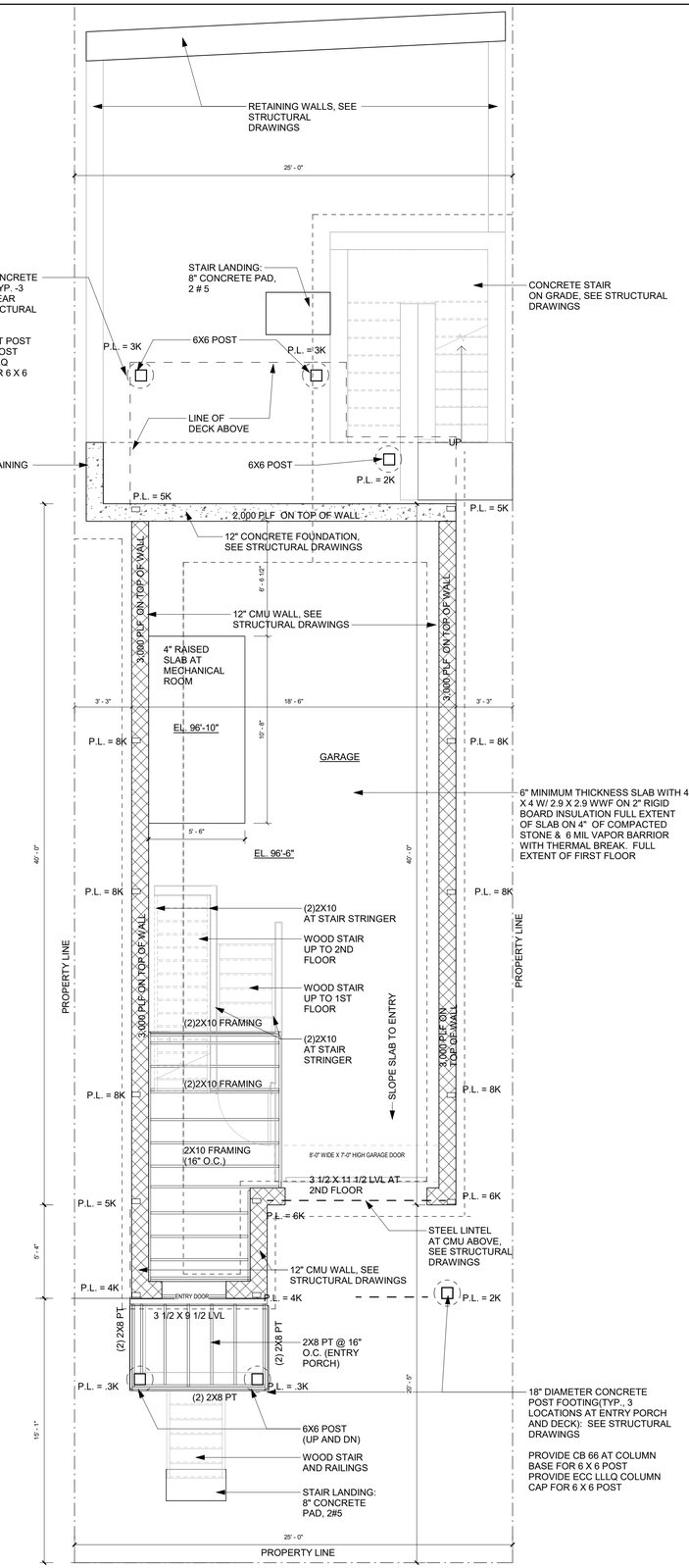
HEADERS. HEADER SPANS TO COMPLY WITH TABLES R602.7(1), R602.7(2) AND R602.7(3).

SINGLE MEMBER HEADERS. PER R602.7.1, SINGLE HEADERS SHALL BE FRAMED WITH A SINGLE FLAT 2-INCH-NOMINAL MEMBER OR WALL PLATE NOT LESS IN WIDTH THAN THE WALL STUDS ON THE TOP AND BOTTOM OF THE HEADER IN ACCORDANCE WITH FIGURES R602.7.1(1) AND R602.7.1(2) AND FACE NAILED TO THE TOP AND BOTTOM OF THE HEADER WITH 10D BOX NAILS (3 INCHES × 0.128 INCHES) SPACED 12 INCHES ON CENTER.

RIM BOARD HEADERS. PER R602.7.2 , RIM BOARD HEADER SIZE, MATERIAL AND SPAN SHALL BE IN ACCORDANCE WITH TABLE R602.7(1). RIM BOARD HEADERS SHALL BE CONSTRUCTED IN ACCOR- DANCE WITH FIGURE R602.7.2 AND SHALL BE SUPPORTED AT EACH END BY FULL-HEIGHT STUDS. THE NUMBER OF FULL-HEIGHT STUDS AT EACH END SHALL BE NOT LESS THAN THE NUMBER OF STUDS DISPLACED BY HALF OF THE HEADER SPAN BASED ON THE MAXIMUM STUD SPAC- ING IN ACCORDANCE WITH TABLE R602.3(5). RIM BOARD HEADERS SUPPORTING CONCENTRATED LOADS SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

NONBEARING WALLS. PER R602.7.4, LOAD-BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NONBEARING WALLS. A SINGLE FLAT 2"X4" MEMBER SHALL BE PERMITTED TO BE USED AS A HEADER IN INTERIOR OR EXTERIOR NON- BEARING WALLS FOR OPENINGS UP TO 8 FEET IN WIDTH IF THE VERTICAL DISTANCE TO THE PARALLEL NAILING SURFACE ABOVE IS NOT MORE THAN 24" FOR SUCH NON-BEARING HEADERS

FIREBLOCKING REQUIRED. PER R602.8, FIREBLOCKING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.11.



FOUNDATION NOTES: SEE STRUCTURAL DRAWINGS FOR FOUNDATION WALL, FOOTINGS, AND RETAINING WALL SCOPE

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

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6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION **DATE**

DRAWING TITLE

FRAMING PLAN - FIRST FLOOR

DRAWING NO.

A-1.0

DATE: 06/09/2023

SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591

FLOOR FRAMING NOTES

REQUIREMENTS. PER R501.2 FLOOR CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IN ACCORDANCE WITH SECTION R301 AND OF TRANSMITTING THE RESULTING LOADS TO THE SUPPORTING STRUCTURAL ELEMENTS.

SAWN LUMBER. PERT R502.1.1, SAWN LUMBER SHALL BE IDENTIFIED BY A GRADE *MARK* OF AN ACCREDITED LUMBER GRADING OR INSPECTION AGENCY AND HAVE DESIGN VALUES CERTIFIED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20. IN LIEU OF A GRADE *MARK*, A CERTIFICATE OF INSPECTION ISSUED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THE REQUIRE- MENTS OF THIS SECTION SHALL BE ACCEPTED.

PREFABRICATED WOOD I-JOISTS. PER R502.1.1, STRUCTURAL CAPACITIES AND DESIGN PROVISIONS FOR PREFABRICATED WOOD I-JOISTS SHALL BE ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5055.

STRUCTURAL GLUED LAMINATED TIMBERS. PER R502.1.3 GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN ANSI/AITC A190.1 AND ASTM D3737

ALLOWABLE JOIST SPANS. PER R502.3 SPANS FOR FLOOR JOISTS SHALL BE IN ACCORDANCE WITH TABLES R502.3.1(1) AND R502.3.1(2). FOR OTHER GRADES AND SPECIES AND FOR OTHER LOADING CONDITIONS, REFER TO THE AWC STJR.

FLOOR CANTILEVERS. PER R502.3.3 FLOOR CANTILEVER SPANS SHALL NOT EXCEED THE NOMINAL DEPTH OF THE WOOD FLOOR JOIST. FLOOR CANTILEVERS CONSTRUCTED IN ACCORDANCE WITH TABLE R502.3.3(1) SHALL BE PERMITTED WHERE SUPPORTING A LIGHT- FRAME BEARING WALL AND ROOF ONLY. FLOOR CANTILEVERS SUPPORTING AN EXTERIOR BALCONY ARE PERMITTED TO BE CONSTRUCTED IN ACCORDANCE WITH TABLE R502.3.3(2).

BEARING. PER R502.6 THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL 2HAVE NOT LESS THAN 1 1/2" METAL AND NOT LESS THAN 3" ON MASONRY OR CONCRETE EXCEPT WHERE SUPPORTED ON A 1" BY 4" RIBBON STRIP AND NAILED TO THE ADJACENT STUD OR BY THE USE OF APPROVED JOIST HANGERS. THE BEARING ON MASONRY OR CONCRETE SHALL BE DIRECT, OR A SILL PLATE OF 2" MINIMUM NOMINAL THICKNESS SHALL BE PROVIDED UNDER THE JOIST, BEAM OR GIRDER. THE SILL PLATE SHALL PROVIDE A MINIMUM NOMI- NAL BEARING AREA OF 48 SQUARE INCHES.

JOIST FRAMING. PER R502.6.2 JOISTS FRAMING INTO THE SIDE OF A WOOD GIRDER SHALL BE SUPPORTED BY *APPROVED* FRAMING ANCHORS OR ON LEDGER STRIPS NOT LESS THAN NOMINAL 2 INCHES BY 2 INCHES (51 MM BY 51 MM).

LATERAL RESTRAINT AT SUPPORTS. PER R502.7, JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL IN THICKNESS; OR BY ATTACHMENT TO A FULL-DEPTH HEADER, BAND OR RIM JOIST, OR TO AN ADJOINING STUD OR SHALL BE OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION

BRIDGING. PER R502.7.1, JOISTS EXCEEDING A NOMINAL 2" X 12" SHALL BE SUPPORTED LATERALLY BY SOLID BLOCKING, DIAGONAL BRIDGING (WOOD OR METAL), OR A CONTINUOUS 1" X 3" STRIP NAILED ACROSS THE BOTTOM OF JOISTS PERPENDICULAR TO JOISTS AT INTERVALS NOT EXCEEDING 8'-0". EXCEPTION: TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUED-LAMINATED MEMBERS AND I-JOISTS SHALL BE SUPPORTED LATERALLY AS REQUIRED BY THE MANUFACTURER'S RECOMMENDATIONS.

CUTTING, DRILLING AND NOTCHING. STRUCTURAL FLOOR MEMBERS SHALL NOT BE CUT, BORED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN THIS SECTION. SEE FIGURE R502.8

FASTENING. PER R502.9 FLOOR FRAMING SHALL BE NAILED IN ACCOR- DANCE WITH TABLE R602.3(1). WHERE POSTS AND BEAM OR GIRDER CONSTRUCTION IS USED TO SUPPORT FLOOR FRAMING, POSITIVE CON- NECTIONS SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT.

FRAMING OF OPENINGS. PER R502.10, OPENINGS IN FLOOR FRAMING SHALL BE FRAMED WITH A HEADER AND TRIMMER JOISTS. WHERE THE HEADER JOIST SPAN DOES NOT EXCEED 4'-0", THE HEADER JOIST SHALL BE A SINGLE MEMBER THE SAME SIZE AS THE FLOOR JOIST. SINGLE TRIMMER JOISTS SHALL BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3'-0" OF THE TRIMMER JOIST BEARING. WHERE THE HEADER JOIST SPAN EXCEEDS 4'-0" THE TRIMMER JOISTS AND THE HEADER JOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR JOISTS FRAMING INTO THE HEADER.

DRAFTSTOPPING REQUIRED. PER R502.12, DRAFTSTOPPING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.12.

FIREBLOCKING REQUIRED. PER R502.13, FIREBLOCKING SHALL BE PRO- VIDED IN ACCORDANCE WITH SECTION R302.11.

WOOD STRUCTURAL PANEL SHEATHING (R503.2)

IDENTIFICATION AND GRADE. PER R503.2.1 WOOD STRUCTURAL PANEL SHEATHING USED FOR STRUCTURAL PURPOSES SHALL CONFORM TO DOC PS 1, DOC PS 2, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED FOR GRADE, BOND CLASSIFICATION AND PERFORMANCE CATEGORY BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY. THE PERFORMANCE CATEGORY VALUE SHALL BE USED AS THE "NOMINAL PANEL THICKNESS" OR "PANEL THICKNESS" WHEREVER REFERENCED IN THIS CODE

SUBFLOOR AND COMBINED SUBFLOOR UNDERLAYMENT. PER R503.2.1.1, WHERE USED AS SUBFLOORING OR COMBINATION SUB- FLOOR UNDERLAYMENT, WOOD STRUCTURAL PANELS SHALL BE OF ONE OF THE GRADES SPECIFIED IN TABLE R503.2.1.1(1). WHERE SANDED PLYWOOD IS USED AS COMBINATION SUBFLOOR UNDER- LAYMENT, THE GRADE, BOND CLASSIFICATION, AND PERFORMANCE CATEGORY SHALL BE AS SPECIFIED IN TABLE R503.2.1.1(2).

ALLOWABLE SPANS. PER R503.2.2 THE MAXIMUM ALLOWABLE SPAN FOR WOOD STRUCTURAL PANELS USED AS SUBFLOOR OR COMBINATION SUBFLOOR UNDERLAYMENT SHALL BE AS SET FORTH IN TABLE R503.2.1.1(1), OR APA E30. THE MAXIMUM SPAN FOR SANDED PLYWOOD COMBINATION SUBFLOOR UNDERLAYMENT SHALL BE AS SET FORTH IN TABLE R503.2.1.1(2).

INSTALLATION. PER R503.2.3, WOOD STRUCTURAL PANELS USED AS SUBFLOOR OR COMBINATION SUBFLOOR UNDERLAYMENT SHALL BE ATTACHED TO WOOD FRAMING IN ACCORDANCE WITH TABLE R602.3(1) AND SHALL BE ATTACHED TO COLD-FORMED STEEL FRAM- ING IN ACCORDANCE WITH TABLE R505.3.1(2).
PARTICLEBOARD.(R503.3)

IDENTIFICATION AND GRADE. PER R503.3.1, PARTICLEBOARD SHALL CONFORM TO ANSI A208.1 AND SHALL BE SO IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.

FLOOR UNDERLAYMENT. PER R503.3.2, PARTICLEBOARD FLOOR UNDERLAYMENT SHALL CONFORM TO TYPE PBU AND SHALL BE NOT LESS THAN 1/4" IN THICKNESS

INSTALLATION. PER R503.3.3 PARTICLEBOARD UNDERLAYMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND ATTACHED TO FRAMING IN ACCORDANCE WITH TABLE R602.3(1).

DECK FRAMING NOTES

EXTERIOR DECKS SECTION R507

DECKS. PER R507.1, WOOD-FRAMED DECKS SHALL BE IN ACCORDANCE WITH THIS SECTION OR SECTION R301 FOR MATERIALS AND CONDITIONS NOT PRESCRIBED HEREIN. WHERE SUPPORTED BY ATTACHMENT TO AN EXTERIOR WALL, DECKS SHALL BE POSITIVELY ANCHORED TO THE PRIMARY STRUCTURE AND DESIGNED FOR BOTH VERTICAL AND LATERAL LOADS. SUCH ATTACHMENT SHALL NOT BE ACCOMPLISHED BY THE USE OF TOENAILS OR NAILS SUBJECT TO WITHDRAWAL.

DECK PER R507.2, LEDGER CONNECTION TO BAND JOIST. DECK LEDGER CONNECTIONS TO BAND JOISTS SHALL BE IN ACCORDANCE WITH TABLES R507.2 AND R507.2.1, AND FIGURES R507.2.1(1) AND R507.2.1(2). FOR OTHER GRADES, SPECIES, CONNECTION DETAILS AND LOADING CONDITIONS, DECK LEDGER CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R301.

LEDGER DETAILS. PER R507.2.1, DECK LEDGERS INSTALLED IN ACCORDANCE WITH SECTION R507.2 SHALL BE A MINIMUM 2"X8" NOMINAL, PRESSURE-PRESERVATIVE-TREATED SOUTHERN PINE, INCISED PRESSURE-PRESERVATIVE-TREATED HEM-FIR, OR APPROVED, NATURALLY DURABLE, NO. 2 GRADE OR BETTER LUMBER. DECK LEDGERS INSTALLED IN ACCORDANCE WITH SECTION R507.2 SHALL NOT SUPPORT CONCENTRATED LOADS FROM BEAMS OR GIRDERS. DECK LEDGERS SHALL NOT BE SUPPORTED ON STONE OR MASONRY VENEER.

BAND JOIST DETAILS. PER R507.2.2, BAND JOISTS ATTACHED BY A LEDGER IN ACCORDANCE WITH SECTION R507.2 SHALL BE A MINIMUM 2" NOMINAL SOLID-SAWN, SPRUCE-PINE-FIR LUMBER OR A MINIMUM 1" BY 9 ½" JOISTS ATTACHED BY A LEDGER IN ACCORDANCE WITH SECTION R507.2 SHALL BE FULLY SUPPORTED BY A WALL OR SILL PLATE BELOW.

LEDGER TO BAND JOIST FASTENER DETAILS. PER R507.2.3, FASTENERS USED IN DECK LEDGER CONNECTIONS IN ACCORDANCE WITH TABLE R507.2 SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH TABLE R507.2.1 AND FIGURES R507.2.1(1) AND R507.2.1(2).

PLASTIC COMPOSITE DECK BOARDS, STAIR TREADS, GUARDS, OR HANDRAILS. PER R507.3 ,PLASTIC COMPOSITE EXTERIOR DECK BOARDS, STAIR TREADS, GUARDS AND HANDRAILS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM D7032 AND THE REQUIREMENTS OF SECTION 507.3.

LABELING. PER R507.3.1,PLASTIC COMPOSITE DECK BOARDS AND STAIR TREADS, OR THEIR PACKAGING, SHALL BEAR A LABEL THAT INDICATES COMPLIANCE TO ASTM D7032 AND INCLUDES THE ALLOW- ABLE LOAD AND MAXIMUM ALLOWABLE SPAN DETERMINED IN ACCORDANCE WITH ASTM D7032. PLASTIC OR COMPOSITE HANDRAILS AND GUARDS, OR THEIR PACKAGING, SHALL BEAR A LABEL THAT INDICATES COMPLIANCE TO ASTM D7032 AND INCLUDES THE MAXIMUM ALLOWABLE SPAN DETERMINED IN ACCORDANCE WITH ASTM D7032.

FLAME SPREAD INDEX. PER R507.3.2, PLASTIC COMPOSITE DECK BOARDS, STAIR TREADS, GUARDS, AND HANDRAILS SHALL EXHIBIT A FLAME SPREAD INDEX NOT EXCEEDING 200 WHEN TESTED IN ACCOR- DANCE WITH ASTM E84 OR UL 723 WITH THE TEST SPECIMEN REMAINING IN PLACE DURING THE TEST. EXCEPTION: PLASTIC COMPOSITES DETERMINED TO BE NONCOMBUSTIBLE.

DECAY RESISTANCE. PER R507.3.3 , PLASTIC COMPOSITE DECK BOARDS, STAIR TREADS, GUARDS AND HANDRAILS CONTAINING WOOD, CELLULOSIC OR OTHER BIODEGRADABLE MATERIALS SHALL BE DECAY RESISTANT IN ACCORDANCE WITH ASTM D7032.

TERMITE RESISTANCE. PER R507.3.4, WHERE REQUIRED BY SECTION 318, PLASTIC COMPOSITE DECK BOARDS, STAIR TREADS, GUARDS AND HANDRAILS CONTAINING WOOD, CELLULOSIC OR OTHER
BIODEGRADABLE MATERIALS SHALL BE TERMITE RESISTANT IN ACCORDANCE WITH ASTM D7032.

DECKING. PER R507.4 , MAXIMUM ALLOWABLE SPACING FOR JOISTS SUPPORTING DECKING SHALL BE IN ACCORDANCE WITH TABLE R507.4. WOOD DECKING SHALL BE ATTACHED TO EACH SUPPORTING MEMBER WITH NOT LESS THAN (2) 8D THREADED NAILS OR (2) NO. 8 WOOD SCREWS.

DECK JOISTS. PER R507.5, MAXIMUM ALLOWABLE SPANS FOR WOOD DECK JOISTS, AS SHOWN IN FIGURE R507.5, SHALL BE IN ACCORDANCE WITH TABLE R507.5. DECK JOISTS SHALL BE PERMITTED TO CANTILEVER NOT GREATER THAN ONE-FOURTH OF THE ACTUAL, ADJACENT JOIST SPAN.

DECK BEAMS. MAXIMUM ALLOWABLE SPANS FOR WOOD DECK BEAMS, AS SHOWN IN FIGURE R507.6, SHALL BE IN ACCORDANCE WITH TABLE R507.6. BEAM PLIES SHALL BE FASTENED WITH TWO ROWS OF 10D (3-INCH × 0.128-INCH) NAILS MINIMUM AT 16" (406 MM) ON CENTER ALONG EACH EDGE. BEAMS SHALL BE PERMITTED TO CANTILEVER AT EACH END UP TO ONE-FOURTH OF THE ACTUAL BEAM SPAN. SPLICES OF MULTISPAN BEAMS SHALL BE LOCATED AT INTERIOR POST LOCATIONS

LATERAL RESTRAINT AT SUPPORTS. PER R507.5.1 JOIST ENDS AND BEARING LOCATIONS SHALL BE PROVIDED WITH LATERAL RESTRAINT TO PREVENT ROTATION. WHERE LATERAL RESTRAINT IS PROVIDED BY JOIST HANGERS OR BLOCKING BETWEEN JOISTS, THEIR DEPTH SHALL EQUAL NOT LESS THAN 60 PERCENT OF THE JOIST DEPTH. WHERE LATERAL RESTRAINT IS PROVIDED BY RIM JOISTS, THEY SHALL BE SECURED TO THE END OF EACH JOIST WITH NOT LESS THAN (3) 10D (3-INCH 0.128-INCH) NAILS OR (3) NO. 10 3-INCH LONG WOOD SCREWS.

INSTALLATION OF PLASTIC COMPOSITES. PER 507.3.5, PLASTIC COM- POSITE DECK BOARDS, STAIR TREADS, GUARDS AND HANDRAILS SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE AND THE MANUFACTURER'S INSTRUCTIONS

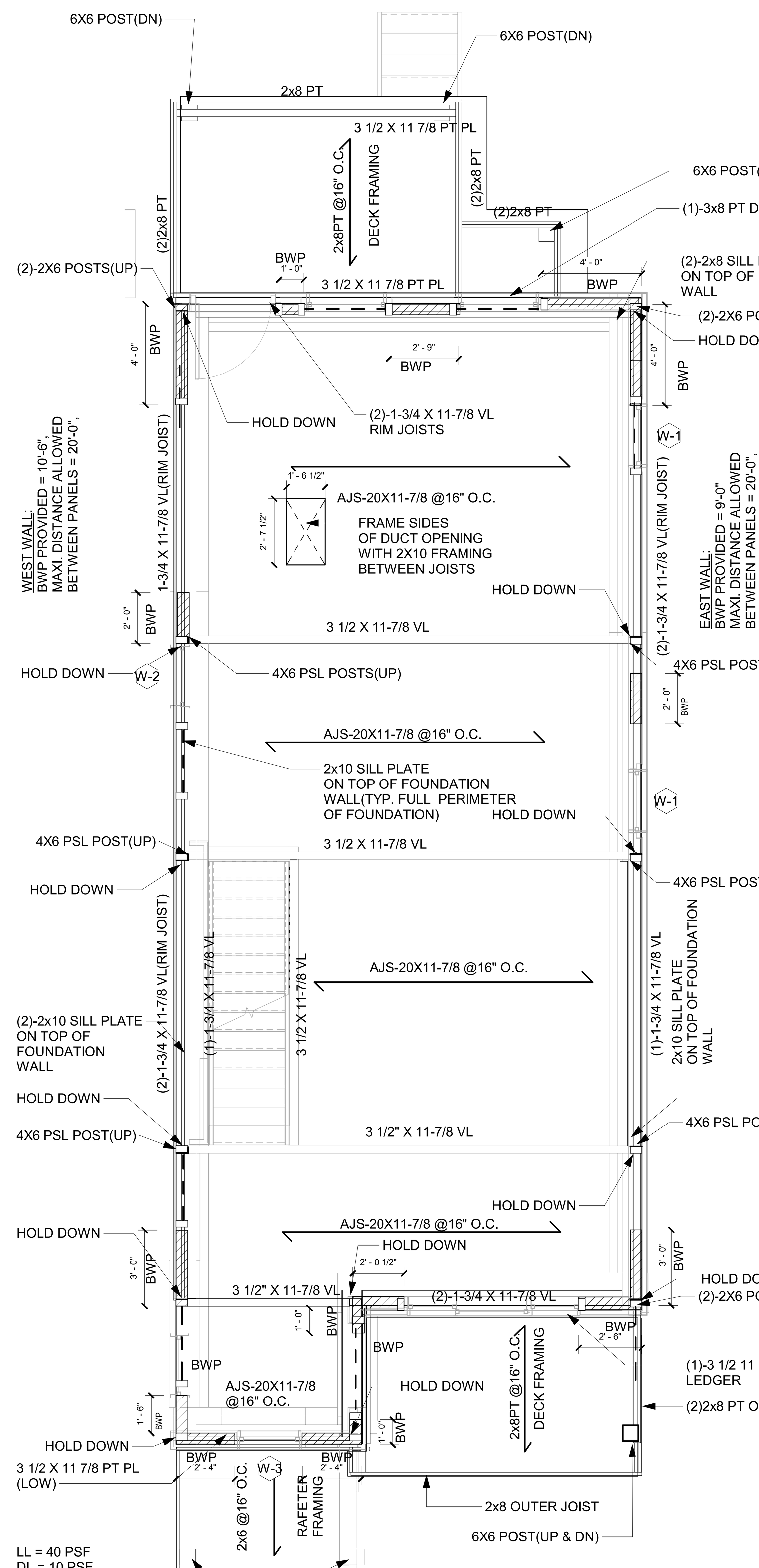
DECK JOIST AND DECK BEAM BEARING. PER R507.7 THE ENDS OF EACH JOIST AND BEAM SHALL HAVE NOT LESS THAN 1 ½ OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3 INCHES (76 MM) ON CONCRETE OR MASONRY FOR THE ENTIRE WIDTH OF THE BEAM. JOIST FRAMING INTO THE SIDE OF A LEDGER BOARD OR BEAM SHALL BE SUPPORTED BY APPROVED JOIST HANGERS. JOISTS BEARING ON A BEAM SHALL BE CONNECTED TO THE BEAM TO RESIST LATERAL DIS- PLACEMENT

DECK POST TO DECK BEAM. PER R507.7.1, DECK BEAMS SHALL BE ATTACHED TO DECK POSTS IN ACCORDANCE WITH FIGURE R507.7.1 OR BY OTHER EQUIVALENT MEANS CAPABLE TO RESIST LATERAL DIS- PLACEMENT. MANUFACTURED POST-TO-BEAM CONNECTORS SHALL BE SIZED FOR THE POST AND BEAM SIZES. ALL BOLTS SHALL HAVE WASHERS UNDER THE HEAD AND NUT.

DECK POSTS. PER R507.8, FOR SINGLE-LEVEL WOOD-FRAMED DECKS WITH BEAMS SIZED IN ACCORDANCE WITH TABLE R507.6, DECK POST SIZE SHALL BE IN ACCORDANCE WITH TABLE R507.8.

DECK POST TO DECK FOOTING. PER R507.8.1, POSTS SHALL BEAR ON FOOTINGS IN ACCORDANCE WITH SECTION R403 AND FIGURE R507.8.1. POSTS SHALL BE RESTRAINED TO PREVENT LATERAL DIS- PLACEMENT AT THE BOTTOM SUPPORT. SUCH LATERAL RESTRAINT SHALL BE PROVIDED BY MANUFACTURED CONNECTORS INSTALLED IN ACCORDANCE WITH SECTION R507 AND THE MANUFACTURERS' INSTRUCTIONS OR A MINIMUM POST EMBEDMENT OF 12" IN SURROUNDING SOILS OR CONCRETE PIERS

NORTH WALL(42'-5" AVG. SEP.):
BWP PROVIDED = 7'-9"



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

SOUTH WALL(42'-5" AVG. SEP.):
BWP PROVIDED = 10'-2"

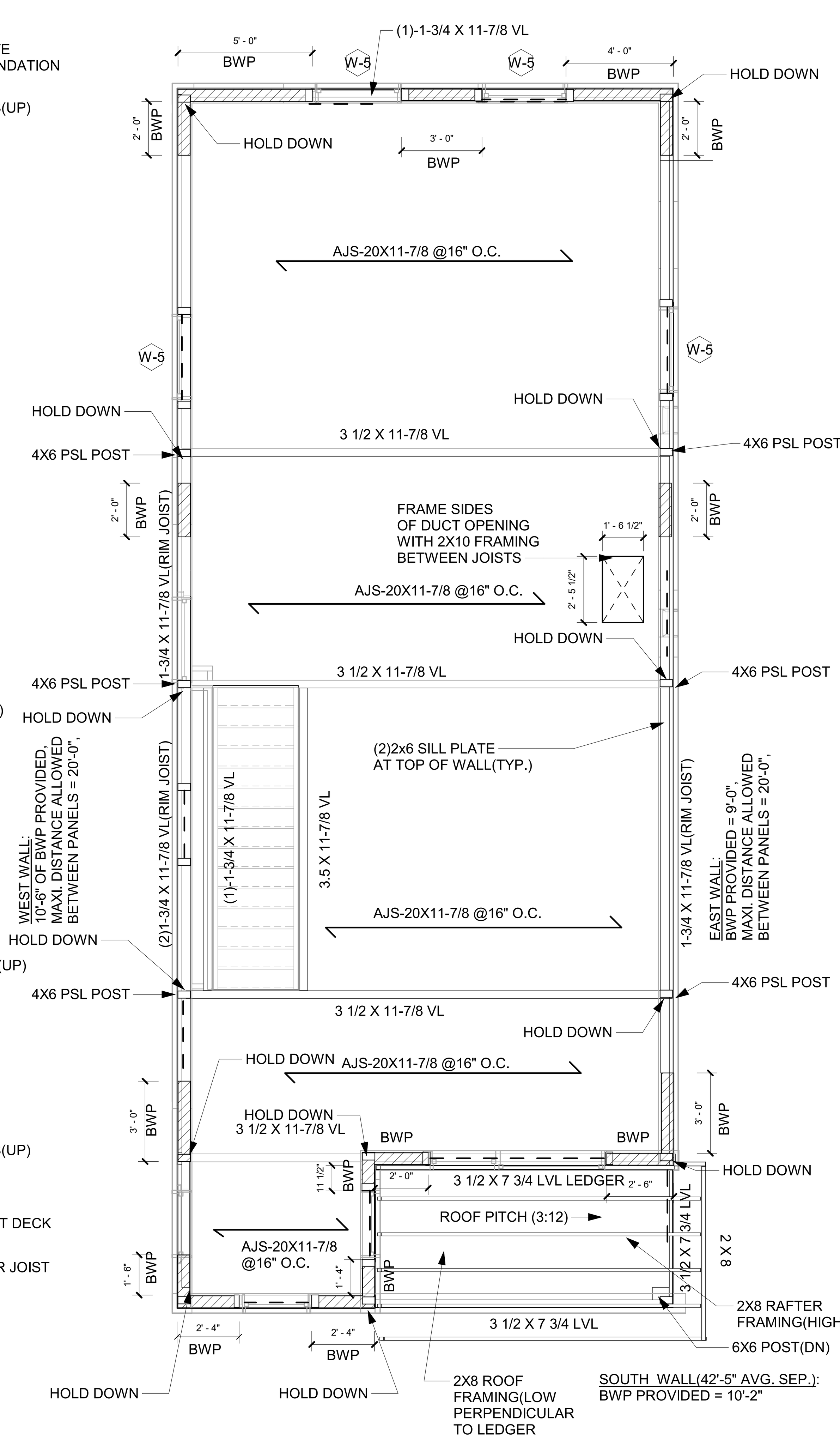
LEGEND

AJS = BOISE CASCADE

SEE RIM BOARD/ HEADER DETAIL AT TYPICAL WINDOW/DOOR OPENINGS, DWG A-5.2

HDU-SDS2.5 HOLD-DOWN AT BUILDING CORNERS AND BEAM LINES, WITH MINIMUM 4,000 DF/SP ALLOWABLE TENSIONS LOADS, SEE TYPICAL HOLD DOWN DETAILS ON DWG. A5.2 FOR FOUNDATION WALLS

NORTH WALL(42'-5" AVG. SEP.):
BWP LENGTH PROVIDED = 12'-0"



SOUTH WALL(42'-5" AVG. SEP.):
BWP PROVIDED = 10'-2"

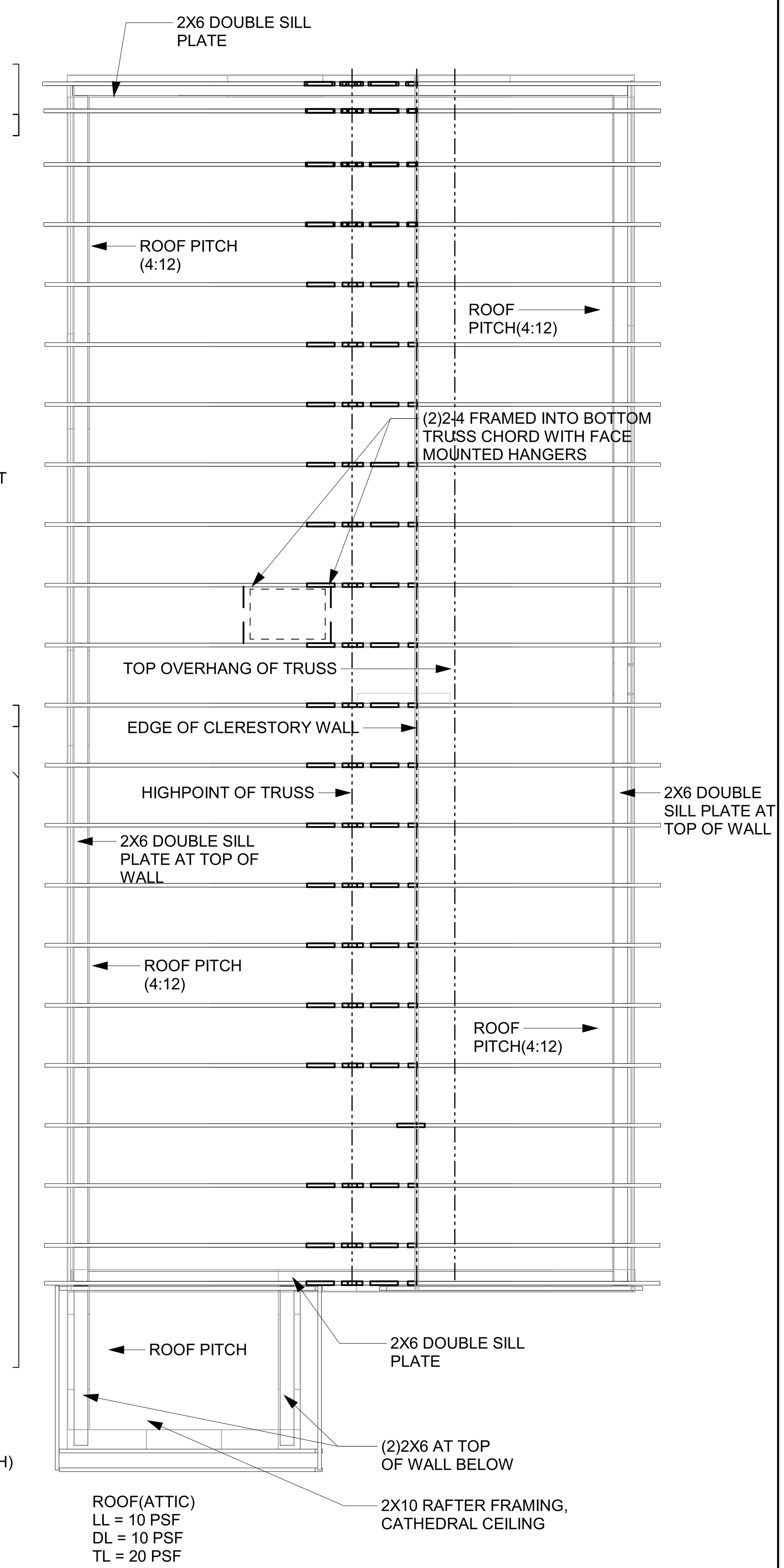
2 3RD FLOOR / LOW ROOF FRAMING PLAN
1/4" = 1'-0"

3RD FLOOR
LL = 30PSF
DL = 10 PSF
TL = 40 PSF

ROOF FRAMING NOTES:

INSTALL SHEATHED BLOCKING BETWEEN EACH TRUSS PER I.R.C. 2021 NJ EDITION, STRAP TRUSSES TO WALL STUD WITH SIMPSON H7Z HURRICANE TIES

ATTIC ACCESS 22" X 30" WITH UNOBSTRUCTED HEADROOM WILL BE PROVIDED IF ATTIC HAS A HEADROOM OF MORE THAN 30" OR MORE WITH ROOF TRUSS DESIGN. NO STORAGE OR MECHANICAL EQUIPMENT WILL BE LOCATED IN THE ATTIC SPACE



ROOF(ATTIC)
LL = 10 PSF
DL = 10 PSF
TL = 20 PSF

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

ROOF TRUSS NOTES

TRUSS DESIGN DRAWINGS. PER R802.10.1, TRUSS DESIGN DRAWINGS, PREPARED IN CONFORMANCE TO SECTION R802.10.1, SHALL BE PROVIDED TO THE *BUILDING OFFICIAL* AND *APPROVED* PRIOR TO INSTALLATION. TRUSS DESIGN DRAWINGS AND TRUSS LAYOUT DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIV- ERED TO THE JOB SITE. TRUSS DESIGN DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING INFORMATION: SLOPE OR DEPTH, SPAN AND SPACING, LOCATION OF ALL JOINTS, REQUIRED BEARING WIDTHS, DESIGN LOADS AS APPLICABLE., TOP CHORD LIVE LOAD (AS DETERMINED FROM SECTION R301.6), TOP CHORD DEAD LOAD, BOTTOM CHORD LIVE LOAD, BOTTOM CHORD DEAD LOAD, CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION, CONTROLLING WIND AND EARTHQUAKE LOADS, ADJUSTMENTS TO LUMBER AND JOINT CONNECTOR DESIGN VALUES FOR CONDITIONS OF USE, EACH REACTION FORCE AND DIRECTION, JOINT CONNECTOR TYPE AND DESCRIPTION SUCH AS SIZE, THICKNESS OR GAGE AND THE DIMENSIONED LOCATION OF EACH JOINT CONNECTOR EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE, LUMBER SIZE, SPECIES AND *GRADE FOR EACH MEMBER,* CONNECTION REQUIREMENTS FOR: TRUSS TO GIRDER-TRUSS, TRUSS PLY TO PLY, FIELD SPLICES, CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DESCRIPTION FOR LIVE AND TOTAL LOAD, MAXIMUM AXIAL COMPRESSION FORCES IN THE TRUSS MEMBERS TO ENABLE THE BUILDING DESIGNER TO DESIGN THE SIZE, CONNECTIONS AND ANCHORAGE OF THE PERMA- NENT CONTINUOUS LATERAL BRACING. FORCES SHALL BE SHOWN ON THE TRUSS DESIGN DRAWING OR ON SUPPLEMENTAL DOCUMENTS, REQUIRED PERMANENT TRUSS MEMBER BRACING LOCATION.

WOOD TRUSSES. PER R802.10.2, DESIGN SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. THE DESIGN AND MANUFACTURE OF METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. THE TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL WHERE REQUIRED BY THE STATUTES OF THE *JURISDICTION* IN WHICH THE PROJ- ECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION R106.1.

TRUSS BRACING. PER R802.10.3, TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE *CONSTRUCTION DOCUMENTS* FOR THE BUILDING AND ON THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH ACCEPTED INDUSTRY PRACTICE SUCH AS THE SBCA *BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES*

ALTERATIONS TO TRUSSES. PER R802.10.4, TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED *DESIGN PROFESSIONAL.*

TRUSS IDENTIFICATION. PER R802.10.5, EACH TRUSS SHALL BE LABELED OR OTHERWISE INDELIBLY MARKED AT THE FACTORY WITH THE INDIVIDUAL TRUSS NUMBER AS ASSIGNED IN THE TRUSS LAYOUT PLAN. THE INDELIBLE MARKING OR LABEL SHALL BE LOCATED ON THE BOTTOM CHORD OF THE TRUSS, INSIDE THE BEARING POINTS. WHEN INDELIBLE MARKINGS ARE USED, EACH DIGIT SHALL BE NOT LESS THAN ONE INCH HIGH. WHEN LABELS ARE USED, THE LABEL SHALL BE A MINIMUM OF FIVE INCHES BY THREE INCHES AND SHALL BE AFFIXED TO THE TRUSS BY A TRUSS PLATE. LABELS SHALL REMAIN AFFIXED TO THE TRUSS.

UPLIFT RESISTANCE. PER R802.11.1, ROOF ASSEMBLIES SHALL HAVE UPLIFT RESISTANCE IN ACCORDANCE WITH SECTIONS R802.11.1.1 AND R802.11.1.2.

TRUSS UPLIFT RESISTANCE. PER R802.11.1.1, TRUSSES SHALL BE ATTACHED TO SUPPORTING WALL ASSEMBLIES BY CONNECTIONS CAPABLE OF RESISTING UPLIFT FORCES AS SPECIFIED ON THE TRUSS DESIGN DRAWINGS FOR THE ULTIMATE DESIGN WIND SPEED AS DETERMINED BY FIGURE R301.2(4)A AND LISTED IN TABLE R301.2(1) OR AS SHOWN ON THE CONSTRUCTION DOCUMENTS. UPLIFT FORCES SHALL BE PERMITTED TO BE DETER- MINED AS SPECIFIED BY TABLE R802.11, IF APPLICABLE, OR AS DETERMINED BY ACCEPTED ENGINEERING PRACTICE

BRACED WALL PANELS

WALL BRACING. PER R602.10, BUILDINGS SHALL BE BRACED IN ACCORDANCE WITH THIS SECTION OR, WHEN APPLICABLE, SECTION R602.12. WHERE A BUILDING, OR PORTION THEREOF, DOES NOT COMPLY WITH ONE OR MORE OF THE BRACING REQUIREMENTS IN THIS SECTION, THOSE PORTIONS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION R301.1

SPACING BETWEEN PARRALELL BRACED WALL LINES SHALL BE PER TABLE R602.10.1.3: MAXIMUM SPACING FOR WIND BRACING BETWEEN PARALLEL BRACED WALL LINES IS 60'-0" (COMPLIES)

LOCATION: BRACED WALL PANEL SHALL BEGIN WITHIN 10'-0" FROM EACH END OF A BRACED WALL LINE

R602.10.3 REQUIRED LENGHT OF BRACING: THE REQUIRED LENGTH OF BRACING ALONG EACH BRACED WALL LINE SHAL BE AS FOLLOW:

ALL BULDING IN SEISMIC DESIGN CATEGORY A AND B SHALL USE TABLE R602.10.3(1) AND THE APPLICABLE ADJUSMENT FACTORS IN TABLE R602..10.3(2)

R602.10.2.3 MINIMUM NUMBER OF BRACED WALL PANELS: BRACED WALLS WITH A LENGHT OF 16'-0" OR LESS SHALL HAVE NOT LESS THAN 2 BRACED WALL PANELS OF ANY LENGTH OR ONE BRACED PANEL EQUAL TO 48 INCHES OR MORE. BRACED WALL LINES GREATER THAN 16'-0" SHALL HAVE NOT LESS THAN TWO BRACED WALL PANELS

WOOD STRUCTURAL PANEL SHEATHING

TABLE R602.3(3)

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES[a, b, c]

MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MAXIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING		ULTIMATE DESIGN WIND SPEED V_{ult} (mph)		
							Wind exposure category		
Size	Penetration (inches)				Edges (inches o.c.)	Field (inches o.c.)	B	C	D
6d Common (2.0" × 0.113")	1.5	24/0	$^3/_8$	16	6	12	140	115	110
8d Common (2.5" × 0.131")	1.75	24/16	$^7/_{16}$	16	6	12	170	140	135
				24	6	12	140	115	110

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.

b. Table is based on wind pressures acting toward and away from building surfaces in accordance with Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10.

c. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 o.c. or 24 o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 o.c. shall be used with studs spaced not more than 16 inches on center.

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146 North 1st Street
Paterson, NJ 07522

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

CHEN O'NEIL ARCHITECTS, PLLC
29 GANUNG DRIVE
OSSINING, NY 10562
646-812-5566

STRUCTURAL ENGINEER:
BNJ ENGINEERING PC
20 FRANCISCAN WAY
FAIR LAWN, NJ 07410
201-796-0003

CIVIL ENGINEER:
GOLDEN & MORAN ENGINEERING PC
22 ANGELO DRIVE
SPARTA, NJ 07871
973-714-2131

6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION **DATE**

DRAWING TITLE

FRAMING PLANS-2ND FL, 3RD FL, ROOF

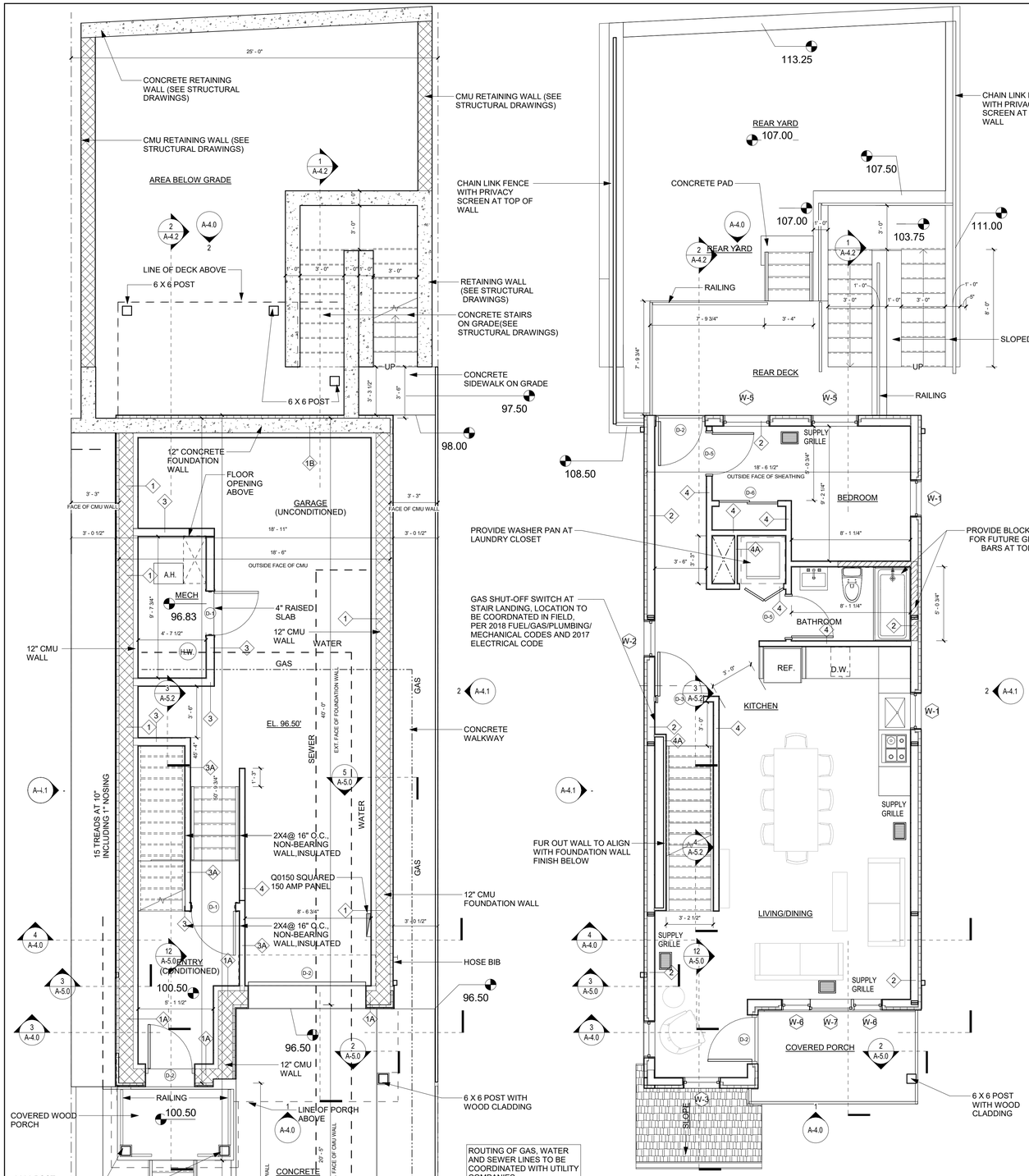
DRAWING NO.

A-1.1

DATE: 06/09/2023
SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591



1 1ST FLOOR CONSTRUCTION PLAN
1/4" = 1'-0"

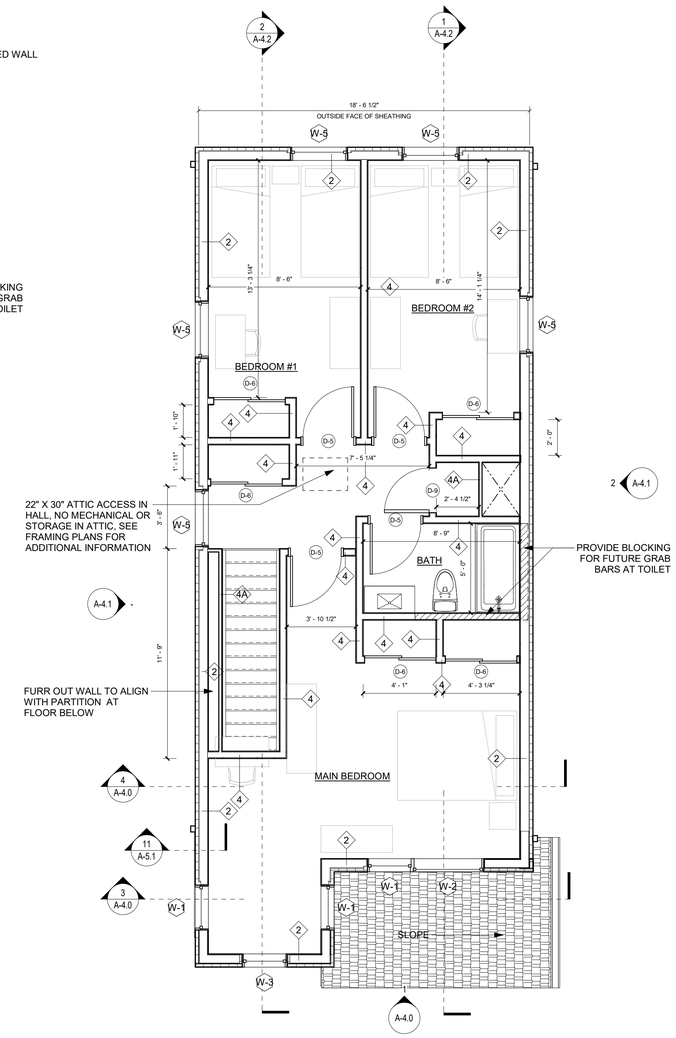
2 2ND FLOOR CONSTRUCTION PLAN
1/4" = 1'-0"

NOTE: EMERGENCY RESCUE WINDOW TO MEET MINIMUM CODE REQUIRED CLEAR OPENING OF 5.7 SF WITH A MINIMUM CLEAR HEIGHT OF 24" AND MINIMUM OPENING WIDTH OF 20" AND SHALL BE OPERATIONAL FROM WITHIN THE ROOM WITHOUT THE USE OF KEYS, TOOLS, OR SPECIAL KNOWLDGE. WINDOW SILL HEIGHT SHALL NOT BE MORE THAN 44" ABOVE FLOOR.

SILL PLATE TO BE FASTENED WITH 1/2" ANCHOR BOLTS MAXIMUM 6'-0" O.C. AND WITHIN 12" OF ENDS OF PLATE PIECES.

AT FRONT AND REAR WALLS, AS WELL AS AT ALL BRACED WALL PANELS, SOLE PLATE TO BE FASTENED TO RIM JOIST WITH 3-16d @ 16" O.C. RIM JOIST TO BE FASTENED TO FOUNDATION SILL PLATE WITH 8d@ 3" O.C. ALL OTHER LOCATIONS TO FOLLOW IRC NJ EDITION, CURRENT VERSION.

WINDOW SCHEDULE					
Level	Type Mark	Count	Height	Width	Comment
2ND FLOOR					
2ND FLOOR	W-1	7	2' - 6"	2' - 6"	
2ND FLOOR	W-2	2			
2ND FLOOR	W-3	4	4' - 0"	2' - 6"	
2ND FLOOR	W-4	1	2' - 6"	1' - 6"	
2ND FLOOR	W-5	3	5' - 2"	3' - 2"	
2ND FLOOR	W-6	2	4' - 0"	2' - 0"	
2ND FLOOR	W-7	1	4' - 0"	3' - 0"	
3RD FLOOR					
3RD FLOOR	W-1	6	2' - 6"	2' - 6"	
3RD FLOOR	W-2	2	2' - 6"	4' - 0"	
3RD FLOOR	W-3	4	4' - 0"	2' - 6"	
3RD FLOOR	W-5	10	5' - 2"	3' - 2"	



3 3RD FLOOR CONSTRUCTION PLAN
1/4" = 1'-0"

DOOR SCHEDULE				
Door Type	Location	DOOR WIDTH	DOOR HEIGHT	COMMENTS
D-1		3' - 0"	6' - 8"	Garage Insulated Door
D-2	Exterior Entry Doors	3' - 4"	6' - 8"	Front and Rear Entry Doors
D-3		3' - 0"	6' - 8"	Insulated entry door
D-4		5' - 0"	6' - 8"	Bi-fold(pair)
D-5	Corridor/bath/bedroom	2' - 10"	6' - 8"	
D-6	Sliding Closet Doors	4' - 0"	6' - 8"	Pair
D-7		3' - 0"	7' - 0"	Laundry Bifold with louver

PARTITION TYPES

1 — CMU FOUNDATION WALL
12" CONCRETE MASONRY UNIT FOUNDATION WALL(2" RIGID INSULATION ON OUTSIDE)
-R-19 BATT INSLATION INFILL AT INTERIOR OF FOUNDATION WALL
-2X4 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD. AT INSIDE FACE OF FOUNDATION WALL
SEE ELEVATIONS FOR EXTENT OF THIN STONE AND STUCCO FINISH.

1A — THIN STONE CLADDING IN LIEU OF CEMENT STUCCO FINISH

1B — 12" CONCRETE FOUNDATION WALL(2" RIGID INSULATION ON OUTSIDE)
-2X4 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD. AT INSIDE FACE OF FOUNDATION WALL

2 — EXTERIOR BEARING WALL W/ 2"X6" WD STUD
1 HOUR FIRE RATING
-ALUMINUM SIDING(SEE ELEVATIONS FOR COLOR)
-1 INCH RIGID CONTINUOUS INSULATION, R-5 TAPED AND SEALED
-(1) LAYER EXTERIOR 5/8" SHEATHING
-R-21 GREEN GUARD OR EQUAL INSULATION BETWEEN STUDS
-2X6 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD. AT INSIDE FACE OF WALL

3 — INTERIOR BEARING/NON BEARING WALL W/ 2"X6" WD STUD
1 HOUR FIRE RATED
-(1) LAYER 5/8" TYPE X GYPBD.
-R-21 HIGH DENSITY BATT INSULATION BETWEEN STUDS
-2X6 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD.

3A — INTERIOR BEARING/NON BEARING WALL W/ 2"X4" WD STUD
1 HOUR FIRE RATED
-(1) LAYER 5/8" TYPE X GYPBD.
-R-15 HIGH DENSITY BATT INSULATION BETWEEN STUDS
-2X4 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD.

4 — NON BEARING WALL W/ 2"X4" WD STUD
-(1) LAYER 5/8" TYPE X GYPBD.
-2X4 WOOD STUDS, MAXIMUM 16" O.C.
(1)LAYER 5/8" TYPE X GYPD.

4A — NON BEARING WALL W/ 2"X4" WD STUD
-(1) LAYER 5/8" TYPE X GYPBD.
-2X4 WOOD STUDS, MAXIMUM 16" O.C.

NOTES:

NOTES:

FRAMING OF INTERIOR WALLS: ALL INTERIOR WALLS AT 2ND AND 3RD FLOORS TO BE 2X4 FRAMING AT 16" O.C. UNLESS OTHERWISE NOTED.

FRAMING OF EXTERIOR WALLS: ALL EXTERIOR WALLS AT 2ND AND 3RD FLOORS TO BE 2X6 FRAMING AT 16" O.C. UNLESS OTHERWISE NOTED

GYPSUM BOARD MATERIALS. PER R702.3.1, GYPSUM BOARD AND GYPSUM PANEL PRODUCT MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C1396 OR C1658 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION. ADHESIVES FOR THE INSTALLATION OF GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL CONFORM TO ASTM C557

WOOD FRAMING. PER R702.3.2, WOOD FRAMING SUPPORTING GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL BE NOT LESS THAN 2" NOMINAL THICKNESS IN THE LEAST DIMENSION EXCEPT THAT WOOD FURRING STRIPS NOT LESS THAN 1"x2" NOMINAL DIMENSION SHALL BE PERMITTED TO BE USED OVER SOLID BACKING OR FRAMING SPACED NOT MORE THAN 24 INCHES (610 MM) ON CENTER.

WATER-RESISTANT GYPSUM BACKING BOARD. PER R702.3.7, GYP- SUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NONABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C1396, C1178 OR C1278. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PER MITTED ON CEILINGS. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A CLASS I OR II VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER. PER R702.3.7.1, WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.

PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL PARTITIONS ON FIRST FLOOR

CERAMIC TILE (R702.4)

GENERAL. PER R702.4.1, CERAMIC TILE SURFACES SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A108.1, A108.4, A108.5, A108.6, A108.11, A118.1, A118.3, A136.1 AND A137.1

BACKER BOARDS. PER R702.4.2, MATERIALS USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS SHALL BE OF MATERIALS LISTED IN TABLE R702.4.2, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS

VAPOR RETARDERS. PER R702.7CLASS I OR II VAPOR RETARDERS ARE REQUIRED ON THE INTERIOR SIDE OF FRAME WALLS IN CLIMATE ZONE 5. EXCEPTIONS: BASEMENT WALLS, BELOW-GRADE PORTION OF ANY WALL, CONSTRUCTION WHERE MOISTURE OR ITS FREEZING WILL NOT DAMAGE THE MATERIALS.

PERFORMANCE OF EXTERIOR WINDOWS AND DOORS. PER R609.2, EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED TO RESIST THE DESIGN WIND LOADS SPECIFIED IN TABLE R301.2(2) ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH TABLE R301.2(3) OR DETERMINED IN ACCORDANCE WITH ASCE 7 USING THE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS OF ASCE 7. DESIGN WIND LOADS FOR EXTERIOR GLAZING NOT PART OF A LABELED ASSEMBLY SHALL BE PERMITTED TO BE DETERMINED IN ACCORDANCE WITH CHAPTER 24 OF THE *INTERNATIONAL BUILDING CODE*.

TESTING AND LABELING. PER R609.3, EXTERIOR WINDOWS AND SLIDING DOORS SHALL BE TESTED BY AN *APPROVED* INDEPENDENT LABORATORY, AND BEAR A *LABEL* IDENTIFYING MANUFACTURER, PERFORMANCE CHAR- ACTERISTICS AND *APPROVED* INSPECTION AGENCY TO INDICATE COM- PLIANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440. EXTERIOR SIDE-HINGED DOORS SHALL BE TESTED AND *LABELED* AS CONFORMING TO AAMA/WDMA/CSA 101/I.S.2/A440 OR AMD 100, OR COMPLY WITH SECTION R609.5.

GARAGE DOORS. PER R609.4, GARAGE DOORS SHALL BE TESTED IN ACCORDANCE WITH EITHER ASTM E330 OR ANSI/DASMA 108, AND SHALL MEET THE ACCEPTANCE CRITERIA OF ANSI/DASMA 108.

WINDOW ANCHORING REQUIREMENTS. PER R609.7.1,WINDOW AND GLASS DOOR ASSEMBLIES SHALL BE ANCHORED IN ACCORDANCE WITH THE PUBLISHED MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE DESIGN PRESSURE SPECIFIED. SUBSTITUTE ANCHORING SYSTEMS USED FOR SUBSTRATES NOT SPECIFIED BY THE FENESTRATION MANU- FACTURER SHALL PROVIDE EQUAL OR GREATER ANCHORING PERFORMANCE AS DEMONSTRATED BY ACCEPTED ENGINEERING PRACTICE

Passaic County Habitat for Humanity®
Passaic County
Habitat For Humanity
146 North 1st Street
Paterson, NJ 07522

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

CHEN O'NEIL ARCHITECTS, PLLC
29 GANUNG DRIVE
OSSINING, NY 10562
646-812-5566

STRUCTURAL ENGINEER:
BNJ ENGINEERING PC
20 FRANCISCAN WAY
FAIR LAWN, NJ 07410
201-796-0003

CIVIL ENGINEER:
GOLDEN & MORAN ENGINEERING PC
22 ANGELO DRIVE
SPARTA, NJ 07871
973-714-2131

ISSUE/REVISION		DATE
6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

DRAWING TITLE

CONSTRUCTION FLOOR PLANS

DRAWING NO.

A-2.0

DATE: 06/09/2023

SCALE: As indicated

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NJ LICENSE 20591

ROOF / CEILING CONSTRUCTION NOTES

REQUIREMENTS. PER R801.2, ROOF AND CEILING CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IMPOSED IN ACCORDANCE WITH SECTION R301 AND OF TRANSMITTING THE RESULTING LOADS TO THE SUPPORTING STRUCTURAL ELEMENTS.

GENERAL. PER R802.1, WOOD AND WOOD-BASED PRODUCTS USED FOR LOAD-SUPPORTING PURPOSES SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THIS SECTION.

SAWN LUMBER. PER R802.1.1, SAWN LUMBER SHALL BE IDENTIFIED BY A GRADE MARK OF AN ACCREDITED LUMBER GRADING OR INSPECTION AGENCY AND HAVE DESIGN VALUES CERTIFIED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20. IN LIEU OF A GRADE MARK, A CERTIFICATE OF INSPECTION ISSUED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THE REQUIRE- MENTS OF THIS SECTION SHALL BE ACCEPTED.

STRUCTURAL PER R802.1.2. GLUED LAMINATED TIMBERS. GLUED LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN ANSI/AITC A190.1 AND ASTM D3737

LABELING. PER LABELING, FIRE-RETARDANT-TREATED LUMBER AND WOOD STRUCTURAL PANELS SHALL BE *LABELED*. THE *LABEL* SHALL CONTAIN: THE IDENTIFICATION *MARK* OF AN *APPROVED AGENCY* IN ACCORDANCE WITH SECTION 1703.5 OF THE *INTERNA-TIONAL BUILDING CODE*. IDENTIFICATION OF THE TREATING MANUFACTURER, THE NAME OF THE FIRE-RETARDANT TREATMENT, THE SPECIES OF WOOD TREATED, FLAME SPREAD INDEX AND SMOKE-DEVELOPED INDEX, METHOD OF DRYING AFTER TREATMENT, CONFORMANCE TO APPLICABLE STANDARDS IN ACCORDANCE WITH SECTIONS R802.1.5.5 THROUGH R802.1.5.10, AND FOR FRTW EXPOSED TO WEATHER, OR A DAMP OR WET LOCATION, THE WORDS "NO INCREASE IN THE LISTED CLASSIFICATION WHEN SUBJECTED TO THE STANDARD RAIN TEST" (ASTM D2898).

EXPOSURE TO WEATHER. PER R802.1.5.8, WHERE FIRE-RETARDANT-TREATED WOOD IS EXPOSED TO WEATHER OR DAMP OR WET LOCATIONS, IT SHALL BE IDENTIFIED AS "EXTERIOR" TO INDICATE THERE IS NOT AN INCREASE IN THE LISTED FLAME SPREAD INDEX AS DEFINED IN SECTION R802.1.5 WHEN SUB- JECTED TO ASTM D2898.

DESIGN AND CONSTRUCTION. PER R802.2, THE FRAMING DETAILS REQUIRED IN SECTION R802 APPLY TO ROOFS HAVING A MINIMUM SLOPE OF THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) OR GREATER. ROOF-CEILINGS SHALL BE DESIGNED AND CON-STRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THIS CHAPTER AND FIGURES R606.11(1), R606.11(2) AND R606.11(3) OR IN ACCORDANCE WITH AWC NDS. COMPONENTS OF ROOF-CEILINGS SHALL BE FASTENED IN ACCORDANCE WITH TABLE R602.3(1).

ALLOWABLE CEILING JOIST SPANS. PER R802.4, SPANS FOR CEILING JOISTS SHALL BE IN ACCORDANCE WITH TABLES R802.4(1) AND R802.4(2), FOR OTHER GRADES AND SPECIES AND FOR OTHER LOADING CONDITIONS, REFER TO THE AWC STJR.

ALLOWABLE RAFTER SPANS. PER R802.5, SPANS FOR RAFTERS SHALL BE IN ACCORDANCE WITH TABLES R802.5.1(1) THROUGH R802.5.1(8). FOR OTHER GRADES AND SPECIES AND FOR OTHER LOADING CONDITIONS, REFER TO THE AWC STJR. THE SPAN OF EACH RAFTER SHALL BE MEA- SURED ALONG THE HORIZONTAL PROJECTION OF THE RAFTER.

BEARING. PER R802.6, THE ENDS OF EACH RAFTER OR CEILING JOIST SHALL HAVE NOT LESS THAN 1 ½" INCHES OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3 INCHES ON MASONRY OR CONCRETE. THE BEARING ON MASONRY OR CONCRETE SHALL BE DIRECT, OR A SILL PLATE OF 2" MINIMUM NOMINAL THICKNESS SHALL BE PROVIDED UNDER THE RAFTER OR CEILING JOIST. THE SILL PLATE SHALL PROVIDE A MINIMUM NOMINAL BEARING AREA OF 48 SQUARE INCHES.

CUTTING, DRILLING AND NOTCHING. PER R802.7, STRUCTURAL ROOF MEMBERS SHALL NOT BE CUT, BORED OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN THIS SECTION.

ENGINEERED WOOD PRODUCTS. PER R802.7.2, CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUE-LAMINATED MEMBERS, CROSS-LAMINATED TIMBER MEMBERS OR I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED DESIGN PROFESSIONAL

LATERAL SUPPORT. PER R802.8, ROOF FRAMING MEMBERS AND CEILING JOISTS HAVING A DEPTH-TO-THICKNESS RATIO EXCEEDING 5 TO 1 BASED ON NOMINAL DIMENSIONS SHALL BE PROVIDED WITH LATERAL SUPPORT AT POINTS OF BEARING TO PREVENT ROTATION. FOR ROOF RAFTERS WITH CEILING JOISTS ATTACHED IN ACCORDANCE WITH TABLE R602.3(1), THE DEPTH-TO-THICKNESS RATIO FOR THE TOTAL ASSEMBLY SHALL BE DETERMINED USING THE COMBINED THICKNESS OF THE RAFTER PLUS THE ATTACHED CEILING JOIST. EXCEPTION: ROOF TRUSSES SHALL BE BRACED IN ACCORDANCE WITH SECTION R802.10.3.

FRAMING OF OPENINGS. PER R802.9, OPENINGS IN ROOF AND CEILING FRAMING SHALL BE FRAMED WITH HEADER AND TRIMMER JOISTS. WHERE THE HEADER JOIST SPAN DOES NOT EXCEED 4 FEET, THE HEADER JOIST SHALL BE PERMITTED TO BE A SINGLE MEMBER THE SAME SIZE AS THE CEILING JOIST OR RAFTER. SINGLE TRIMMER JOISTS SHALL BE PERMITTED TO BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3 FEET OF THE TRIMMER JOIST BEARING. WHERE THE HEADER JOIST SPAN EXCEEDS 4 FEET , THE TRIMMER JOISTS AND THE HEADER JOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE CEILING JOISTS OR RAFTER FRAMING INTO THE HEADER. *APPROVED* HANGERS SHALL BE USED FOR THE HEADER JOIST TO TRIMMER JOIST CONNECTIONS WHERE THE HEADER JOIST SPAN EXCEEDS 6 FEET. TAIL JOISTS OVER 12 FEET) LONG SHALL BE SUPPORTED AT THE HEADER BY FRAMING ANCHORS OR ON LEDGER STRIPS NOT LESS THAN 2 INCHES BY 2 INCHES.

RAFTER UPLIFT RESISTANCE. PER R802.11.1.2,INDIVIDUAL RAFTERS SHALL BE ATTACHED TO SUPPORTING WALL ASSEMBLIES BY CONNECTIONS CAPABLE OF RESISTING UPLIFT FORCES AS DETER- MINED BY TABLE R802.11 OR AS DETERMINED BY ACCEPTED ENGINEERING PRACTICE. CONNECTIONS FOR BEAMS USED IN A ROOF SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

IDENTIFICATION AND GRADE OF WOOD STRUCTURAL PANELS. PER R803.2.1, WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2, CSA O437 OR CSA O325, AND SHALL BE IDENTIFIED FOR GRADE, BOND CLASSIFI- CATION AND PERFORMANCE CATEGORY BY A GRADE MARK OR CERTIF- ICATE OF INSPECTION ISSUED BY AN *APPROVED* AGENCY. WOOD STRUCTURAL PANELS SHALL COMPLY WITH THE GRADES SPECIFIED IN TABLE R503.2.1.1(1).

EXPOSURE DURABILITY. PER R803.2.1.1, WOOD STRUCTURAL PANELS, WHEN DESIGNED TO BE PERMANENTLY EXPOSED IN OUTDOOR APPLICATIONS, SHALL BE OF AN EXTERIOR EXPOSURE DURABILITY. WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE UNDERSIDE SHALL BE PERMITTED TO BE OF INTERIOR TYPE BONDED WITH EXTERIOR GLUE, IDENTIFIED AS EXPOSURE 1.

FIRE-RETARDANT-TREATED PLYWOOD. PER R803.2.1.2, THE ALLOWABLE UNIT STRESSES FOR FIRE-RETARDANT-TREATED PLY- WOOD, INCLUDING FASTENER VALUES, SHALL BE DEVELOPED FROM AN *APPROVED* METHOD OF INVESTIGATION THAT CONSID- ERS THE EFFECTS OF ANTICIPATED TEMPERATURE AND HUMIDITY TO WHICH THE FIRE-RETARDANT-TREATED PLYWOOD WILL BE SUB- JECTED, THE TYPE OF TREATMENT AND REDRYING PROCESS. THE FIRE-RETARDANT-TREATED PLYWOOD SHALL BE GRADED BY AN *APPROVED AGENCY*

ALLOWABLE SPANS. PER R503.2.1.1, THE MAXIMUM ALLOWABLE SPANS FOR WOOD STRUCTURAL PANEL ROOF SHEATHING SHALL NOT EXCEED THE VALUES SET FORTH IN TABLE R503.2.1.1(1), OR APA E30.

INSTALLATION. PER R803.2.3, WOOD STRUCTURAL PANEL USED AS ROOF SHEATHING SHALL BE INSTALLED WITH JOINTS STAGGERED OR NOT STAGGERED IN ACCORDANCE WITH TABLE R602.3(1), APA E30 FOR WOOD ROOF FRAMING OR WITH TABLE R804.3 FOR COLD- FORMED STEEL ROOF FRAMING.

CEILING INSTALLATION. PER R805.1, CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS FOR INTERIOR WALL FINISHES AS PROVIDED IN SECTION R702

VENTILATION REQUIRED. PER R806.1, ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" AND MAXIMUM OF ¼.

VENT AND INSULATION CLEARANCE. PER, R806.3, WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR. NOT LESS THAN A 1-INCH SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AND AT THE LOCATION OF THE VENT.

INSTALLATION AND WEATHER PROTECTION. PER R806.4, VENTILATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALLATION OF VENTILATORS IN ROOF SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R903. INSTALLATION OF VENTILATORS IN WALL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R703.1

ROOF / CEILING CONSTRUCTION NOTES (CONTINUED)

UNVENTED ATTIC AND UNVENTED ENCLOSED RAFTER ASSEMBLIES. PER R806.5, UNVENTED *ATTICS* AND UNVENTED ENCLOSED ROOF FRAMING ASSEMBLIES CREATED BY CEILINGS THAT ARE APPLIED DIRECTLY TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS AND STRUCTURAL ROOF SHEATHING APPLIED DIRECTLY TO THE TOP OF THE ROOF FRAMING MEMBERS/RAFTERS, SHALL BE PERMITTED WHERE ALL THE FOLLOWING CONDITIONS ARE MET: THE UNVENTED *ATTIC* SPACE IS COMPLETELY WITHIN THE *BUILDING THERMAL ENVELOPE*:
-NO INTERIOR CLASS I VAPOR RETARDERS ARE INSTALLED ON THE CEILING SIDE (ATTIC FLOOR) OF THE UNVENTED ATTIC ASSEMBLY OR ON THE CEILING SIDE OF THE UNVENTED ENCLOSED ROOF FRAMING ASSEMBLY.
-IN CLIMATE ZONE 5 ANY AIR-IMPERMEABLE INSULATION SHALL BE A CLASS II VAPOR RETARDER, OR SHALL HAVE A CLASS II VAPOR RETARDER COATING OR COVERING IN DIRECT CONTACT WITH THE UNDERSIDE OF THE INSULATION.
-INSULATION SHALL BE LOCATED IN ACCORDANCE WITH THE FOLLOWING:
-ITEM 5.1.1, 5.1.2, 5.1.3 OR 5.1.4 SHALL BE MET, DEPENDING ON THE AIR PERMEABILITY OF THE INSULATION DIRECTLY UNDER THE STRUCTURAL ROOF SHEATHING.
-WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING.
-WHERE BOTH AIR-IMPERMEABLE AND AIR- PERMEABLE INSULATION ARE PROVIDED, THE AIR-IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH ITEM 5.1.1 AND SHALL BE IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL. THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION. ALTERNATIVELY, SUFFICIENT RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING TO MAINTAIN THE MONTHLY AVER- AGE TEMPERATURE OF THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING ABOVE 45° F (7°C). FOR CALCULATION PURPOSES, AN INTE- RIOR AIR TEMPERATURE OF 68°F (20° C) IS ASSUMED AND THE EXTERIOR AIR TEMPERA- TURE IS ASSUMED TO BE THE MONTHLY AVER- AGE OUTSIDE AIR TEMPERATURE OF THE THREE COLDEST MONTHS.

ELECTRICAL NOTES

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY. WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF OUTLETS AND EQUIPMENT SHALL BE PER THE DRAWINGS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES, AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, AND PRESERVE THE DESIGN INTENT OF THE DRAWINGS.

THE CONTRACTOR, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATE CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, 0R MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD SUCH EXAMINATION BEEN MADE.

BIDS SHALL INCLUDE ALL POWER, GROUNDING, AND EMPTY CONDUIT REQUIREMENTS NECESSARY FOR THE COMPLETE ELECTRICAL INSTALLATION.

FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON ARCHITECTURAL, HVAC, PLUMBING, AND/OR ELECTRICAL DRAWINGS. COORDINATE WITH OTHER TRADES FOR DETAILS OF INSTALLATION AND WIRING REQUIREMENTS. THE TERM "WIRING" AS USED HEREIN SHALL INCLUDE FURNISHING AND INSTALLING CONDUIT, WIRES, JUNCTION/OUTLET BOXES, DISCONNECTS AND OVER CURRENT PROTECTION, AND FINAL CONNECTIONS, COORDINATE FINAL CONDUCTORS SIZES, QUANTITIES, VOLTAGE REQUIREMENTS, OVER CURRENT DEVICES, AND OUTLET RATINGS WITH ACTUAL EQUIPMENT TO BE FURNISHED TO THE SITE PRIOR TO FINALIZING WIRING INSTALLATION. MINOR ADJUSTMENTS TO WIRING REQUIREMENTS NECESSARY TO ACCOMMODATE ACTUAL FURNISHED EQUIPMENT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.

THE ELECTRICAL CONTRACTOR SHALL COMPLY WTH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS:

A. UNDERWRITERS LABORATORIES, INC., (UL)
B. NEW JERSEY ELECTRICAL CODE
C. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
D. ALL LOCAL JURISDICTION DIRECTIVES AND REQUIREMENTS
E. AMERICAN DISABILITIES ACT (ADA)
F. CITY OF PATERSON BUILDING CODE, RULES AND REGULATIONS.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS OR INTERIOR DETAILS. IN CENTERING OUTLETS AND LOCATING BOXES OR OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING, ETC., AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

LOCATE JUNCTION AND PULL BOXES TO BE CONCEALED IN FINISHED SPACES, WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES WHERE NECESSARY FOR WIRE PULLING. COORDINATE ALL BOX LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. SUPPORT HORIZONTAL CONDUIT RUNS AT NO MORE THAN 10' INTERVALS.

UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, OUTLETS, SWITCHES, LIGHTS, MOTORS, AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT OR MATERIALS AND THAT PORTION OF THE SYSTEM SHALL BE RETESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL CONTRACTOR SHALL BALANCE LOADS AMONG PHASES.

EQUIPMENT, DUCTW0RK, AND MATERIALS SHALL BE PROTECTED AGAINST DAMAGE DUE TO BUILDING MATERIALS, ACID, TOOLS, AND EQUIPMENT 0R ANY CAUSES INCIDENTAL TO CONSTRUCTION. ALL EQUIPMENT DAMAGE BY ANY CAUSE SHALL BE REPAIRED AT NO COST TO THE OWNER.

AFTER COMPLETION OF WORK, THIS CONTRACTOR SHALL CLEAN ALL EQUIPMENT AND DEVICES AND SHALL REMOVE ALL RUBBISH, CRATING, UNUSED MATERIAL, AND ANY OTHER DEBRIS OCCASIONED BY THIS INSTALLATION. CONTRACTOR SHALL LEAVE ALL WORK IN A FINISHED, CLEAN, AND SATISFACTORY WORKING CONDITION.

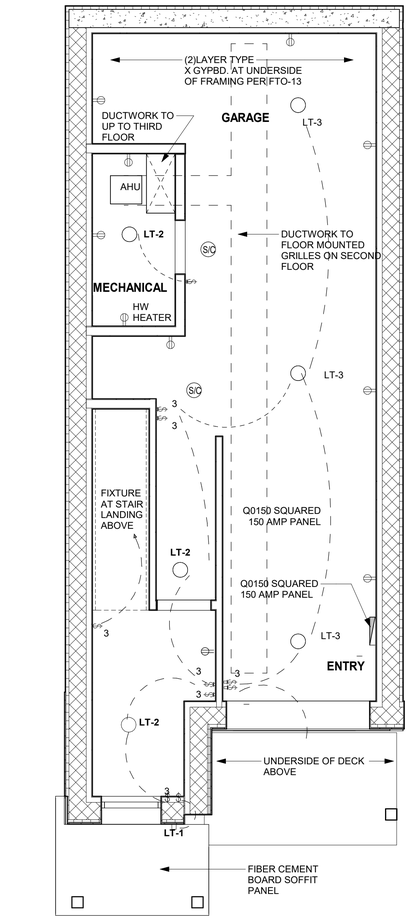
ALL CONDUIT SHALL BE ELECTRIC METALLIC TUBING (EMT), MINIMUM 3/4", UNLESS OTHERWISE NOTED. FLEXIBLE METAL CONDUIT ("GREENFIELD") MAY BE USED ONLY FOR FINAL CONNECTIONS TO LIGHTING FIXTURES 0R VIBRATING EQUIPMENT UNLESS OTHERWISE INDICATED 0N DRAWINGS. ARMORED CABLE ("BX") MAY BE USED, AS COORDINATED WITH THE OWNER, WHERE ALLOWED BY CODE, FOR CONCEALED WORK IN PARTITIONS AND CEILINGS.

ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED TO MATCH THE FIRE RATINGS OF WALLS OR FLOORS IN THE SAME AREA. USE A UL APPROVED SEALING METHOD.

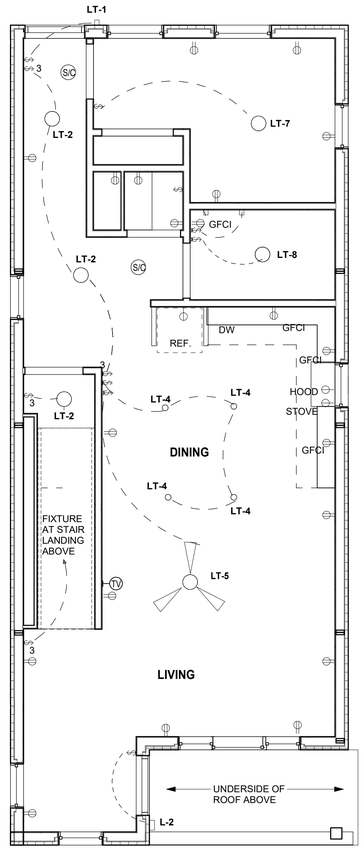
PROVIDE PANEL SCHEDULES AND "AS-BUILT" DRAWINGS INDICATING TRUE CIRCUITING AND CONTROLS UPON COMPLETION OF WORK.

THE ELECTRICAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY ITEMS WHICH DIFFER FROM THE BID DOCUMENTS, OR MIGHT PREVENT PROPER INSTALLATION. ALL ELECTRICAL SHALL CONFORM TO LOCAL STANDARDS AND REQUIREMENTS.

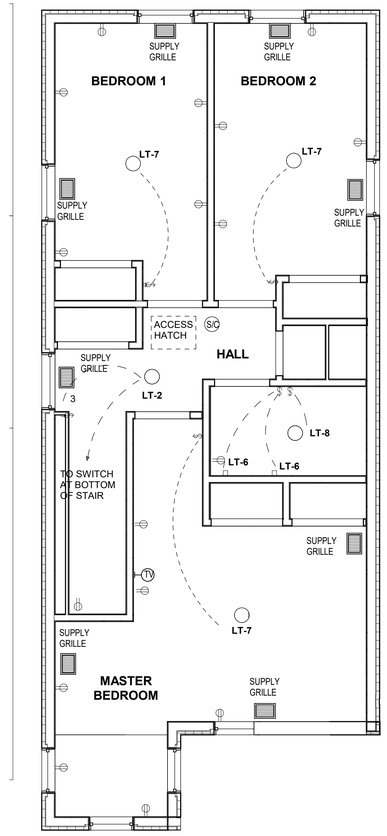
THE OPERATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTABLE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM MUNICIPAL AUTHORITIES AND UNDERWRITERS.



1 1ST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



2 2ND FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



3 3RD FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

ELECTRICAL NOTES (CONTINUED)

ELECTRICAL CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO BUILDING OWNER UPON COMPLETION OF WORK.

FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES AND JUNCTION BOXES, SEE ARCHITECTURAL DRAWINGS.

COORDINATE LIGHTING FIXTURE TYPES, CONTROL DEVICES (SWITCHES, DIMMERS, KEY PADS, ETC.) AND SPECIFICATIONS WITH ARCHITECT. REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL DRAWINGS.

FOR ADDITIONAL LIGHTING NOTES, SEE ARCHITECTURAL DRAWINGS.

U.O.N. ALL BRANCH CIRCUIT WIRING SHALL BE RUN IN WALLS AND ABOVE HUNG TO THE CEILING. FINAL CONNECTIONS TO LIGHTING FIXTURES SHALL BE MADE WITH WIRING HAVINi3 90 DEGREE CELCIUS RATED INSULATION

FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL POWER, TELEPHONE/DATA OUTLETS AND MECHANICAL EQUIPMENT SEE, ARCHITECTURAL DRAWINGS.

ALL 120 V.LT. SINGLE PHASE, 15 AND 20AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED.

METALLIC OUTLET BOXES SHALL BE PERMITTED TO BE INSTALLED IN WOOD AND STEEL STUD WALLS OR PARTITIONS HAVING GYPSUM BOARD FACINGS AND CLASSIFIED AS TWO HOURS OR LESS. THE SURFACE AREA OF INDIVIDUAL BOXES HALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET. BOXES LOCATED ON OPPOSITE SIDES OF WALLS OR PARTITIONS SHALL BE IN SEPARATE STUD CAVITIES AND SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.

POWER PLAN LEGEND:

- RECESSED FLOOR OUTLET
- QUAD OUTLET
- GFI GROUND FAULT CIRCUIT INTERRUPTERS
- STANDARD WALL OUTLET
- S SWITCHED OUTLET
- STANDARD LIGHT SWITCH
- 3 THREE-WAY SWITCH
- D DIMMING LIGHT SWITCH
- RECESSED DOWNLIGHT
- OS WALL SCONCE
- FLUORESCENT LIGHT
- TV TV OUTLET
- DATA OUTLET
- ELECT PANEL
- CEILING FAN
- S/C COMBINATION SMOKE/CARBON MONOXIDE DETECTOR

NOTES:

- ALL OUTLETS AND LIGHT SWITCHES TO BE GANGED WHEREVER APPLICABLE

LIGHT FIXTURE TYPES

LIGHT FIXTURE TYPES

LIGHT FIXTURE	DESCRIPTION	Finish
L-1 EXTERIOR LIGHT		
LT-1		
LT-2	CORRIDOR LIGHT	CEILING SURFACE MOUNTED
LT-4		
LT-6		
LT-7		
LT-7	CORRIDOR LIGHT	CEILING SURFACE MOUTNED
LT-8		

ALL LIGHT FIXTURE TYPES TO BE PER PASSAIC COUNTY HABITAT FOR HUMANITY SPECIFICATIONS

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6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION DATE

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

DRAWING TITLE

REFLECTED CEILING PLAN / ELECTRICAL PLANS

DRAWING NO.

A-3.0

DATE: 06/09/2023
SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591

EXTERIOR WALL NOTES

WATER RESISTANSCE. PER R703.1, EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDEFLASHING AS DESCRIBED IN SECTION R703.4. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED BY SECTION R703.2 AND A MEANS OF DRAINING TO THE EXTERIOR WATER THAT ENTERS THE ASSEMBLY. PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R702.7.

WIND RESISTANCE. PER R703.1.2 , WALL COVERINGS, BACKING MATERIALS AND THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING WIND LOADS IN ACCORDANCE WITH TABLES R301.2(2) AND R301.2(3). WIND-PRESSURE RESISTANCE OF THE SIDING AND BACKING MATERIALS SHALL BE DETERMINED BY ASTM E330 OR OTHER APPLICABLE STANDARD TEST METHODS. WHERE WIND-PRES- SURE RESISTANCE IS DETERMINED BY DESIGN ANALYSIS, DATA FROM APPROVED DESIGN STANDARDS AND ANALYSIS CONFORMING TO GENERALLY ACCEPTED ENGINEERING PRACTICE SHALL BE USED TO EVALUATE THE SIDING AND BACKING MATERIAL AND ITS FASTENING. ALL APPLICABLE FAILURE MODES INCLUDING BENDING RUPTURE OF SIDING, FASTENER WITHDRAWAL AND FASTENER HEAD PULL-THROUGH SHALL BE CONSIDERED IN THE TESTING OR DESIGN ANALYSIS. WHERE THE WALL COVERING AND THE BACKING MATERIAL RESIST WIND LOAD AS AN ASSEMBLY, USE OF THE DESIGN CAPACITY OF THE ASSEMBLY SHALL BE PERMITTED.

WATER-RESISTIVE BARRIER. PER R703.2, ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D226 FOR TYPE 1 FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2" WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6". THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1.

NOMINAL THICKNESS AND ATTACHMENTS. PER R703.3,THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, AND THE WALL COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS. CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH THE ADDITIONAL REQUIREMENTS AND LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17. NOMINAL MATERIAL THICKNESSES IN TABLE R703.3(1) ARE BASED ON A MAXIMUM STUD SPACING OF 16" ON CENTER. WHERE SPECIFIED BY THE SIDING MANUFACTURER'S INSTRUCTIONS AND SUPPORTED BY A TEST REPORT OR OTHER DOCUMENTATION, ATTACHMENT TO STUDS WITH GREATER SPACING IS PERMITTED. FASTENERS FOR EXTERIOR WALL COVERINGS ATTACHED TO WOOD FRAMING SHALL BE IN ACCORDANCE WITH SECTION R703.3.2 AND TABLE R703.3(1). EXTERIOR WALL COVERINGS SHALL BE ATTACHED TO COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION IN ACCORDANCE WITH THE CLADDING MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE REQUIREMENTS OF TABLE R703.3(1) USING SCREW FASTENERS SUBSTITUTED FOR THE NAILS SPECIFIED IN ACCORDANCE WITH TABLE R703.3(2), OR AN APPROVED DESIGN.
FASTENERS. PER R703.3.2, EXTERIOR WALL COVERINGS SHALL BE SECURELY FASTENED WITH ALUMINUM, GALVANIZED, STAINLESS STEEL OR RUST-PREVENTATIVE COATED NAILS OR STAPLES IN ACCOR DANCE WITH TABLE R703.3(1) OR WITH OTHER APPROVED CORROSION-RESISTANT FASTENERS IN ACCORDANCE WITH THE WALL COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS. . WHERE FIBERBOARD, GYPSUM, OR FOAM PLASTIC SHEATHING BACKING IS USED, NAILS OR STAPLES SHALL BE DRIVEN INTO THE STUDS. WHERE WOOD OR WOOD STRUCTURAL PANEL SHEATHING IS USED, FASTENERS SHALL BE DRIVEN INTO STUDS UNLESS OTHERWISE PERMITTED TO BE DRIVEN INTO SHEATHING IN ACCORDANCE WITH EITHER THE SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS OR TABLE R703.3.2.

FLASHING. PER R703.4, APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:
-EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. MECHANICALLY ATTACHED FLEXIBLE FLASHINGS SHALL COMPLY WITH AAMA 712. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH ONE OR MORE OF THE FOLLOWING:
-AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
-UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
-CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
-WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION
-AT WALL AND ROOF INTERSECTIONS
-AT BUILT-IN GUTTERS

WOOD, HARDBOARD AND WOOD STRUCTURAL PANEL SIDING. PER R703.5 ,WOOD, HARDBOARD, AND WOOD STRUCTURAL PANEL SIDING SHALLBE INSTALLED IN ACCORDANCE WITH THIS SECTION AND TABLE R703.3 HARDBOARD SIDING SHALL COMPLY WITH CPA/ANSI A135.6. HARDBOARD SIDING USED AS ARCHITECTURAL TRIM SHALL COMPLY WITH CPA/ANSI A 135.7.
VERTICAL WOOD SIDING. PER R703.5.1, WOOD SIDING APPLIED VERTICALLY SHALL BE NAILED TO HORIZONTAL NAILING STRIPS OR BLOCK- ING SET NOT MORE THAN 24" ON CENTER.
8
PANEL SIDING. PER R703.5.2, 3/8" WOOD STRUCTURAL PANEL SIDING SHALL NOT BE APPLIED DIRECTLY TO STUDS SPACED MORE THAN 16" ON CENTER WHERE LONG DIMENSION IS PARALLEL TO STUDS. WOOD STRUCTURAL PANELSID ING 7/16" OR THINNER SHALL NOT BE APPLIED DIRECTLY TO STUDS SPACED MORE THAN 24" ON CENTER. THE STUD SPACING SHALL NOT EXCEED THE PANEL SPAN RATING PROVIDED BY THE MANUFACTURER UNLESS THE PANELS ARE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE STUDS OR OVER SHEATHING APPROVED FOR THAT STUD SPACING.
JOINTS IN WOOD, HARDBOARD OR WOOD STRUCTURAL PANEL SIDING SHALL BE MADE AS FOLLOWS UNLESS OTHERWISE APPROVED. VERTICAL JOINTS IN PANEL SIDING SHALL OCCUR OVER FRAMING MEMBERS, UNLESS WOOD OR WOOD STRUCTURAL PANEL SHEATHING IS USED, AND SHALL BE SHIPLAPPED OR COVERED WITH A BATTEN. HORIZONTAL JOINTS IN PANEL SIDING SHALL BE LAPPED NOT LESS THAN 1 INCH (25 MM) OR SHALL BE SHIPLAPPED OR FLASHED WITH Z-FLASHING AND OCCUR OVER SOLID BLOCKING, WOOD OR WOOD STRUCTURAL PANEL SHEATHING.

HORIZONTAL WOOD SIDING. PER R703.5.3, HORIZONTAL LAP SIDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE THERE ARE NO RECOMMENDATIONS THE SIDING SHALL BE LAPPED NOT LESS THAN 1", OR ½" IF RABBETED, AND SHALL HAVE THE ENDS CAULKED, COVERED WITH A BATTEN OR SEALED AND INSTALLED OVER A STRIP OF FLASHING.

EXTERIOR PLASTER. PER R703.7, INSTALLATION OF THESE MATERIALS SHALL BE IN COMPLIANCE WITH ASTM C926, ASTM C1063 AND THE PROVISIONS OF THIS CODE

LATH. PER R703.7.1,LATH AND LATH ATTACHMENTS SHALL BE OF COR- ROSION-RESISTANT MATERIALS.

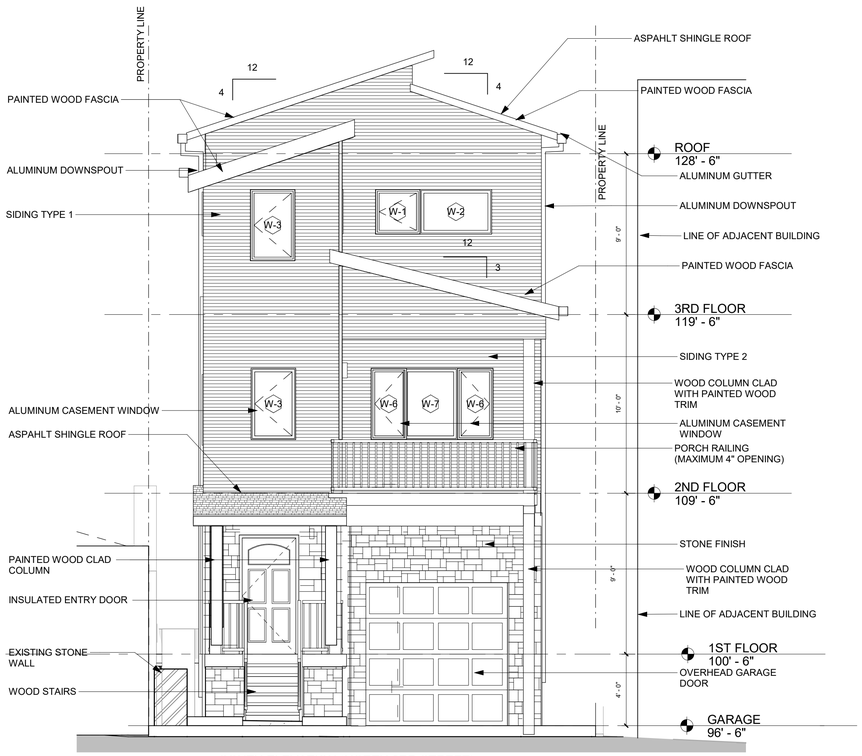
PLASTER. PER R703.7.2, PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHERE APPLIED OVER METAL LATH OR WIRE LATH AND SHALL BE NOT LESS THAN TWO COATS WHERE APPLIED OVER MASONRY, CONCRETE, PRESSURE-PRESERVATIVE-TREATED WOOD OR DECAY-RESISTANT WOOD AS SPECIFIED IN SEC- TION R317.1 OR GYPSUM BACKING. IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIALOR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY TWO COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH IN TABLE R702.1(1

WEEP SCREEDS. PER R703.7.2.1, CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT OF 3 ½" SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C926. THE WEEP SCREED SHALL BE PLACED NOT LESS THAN 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED

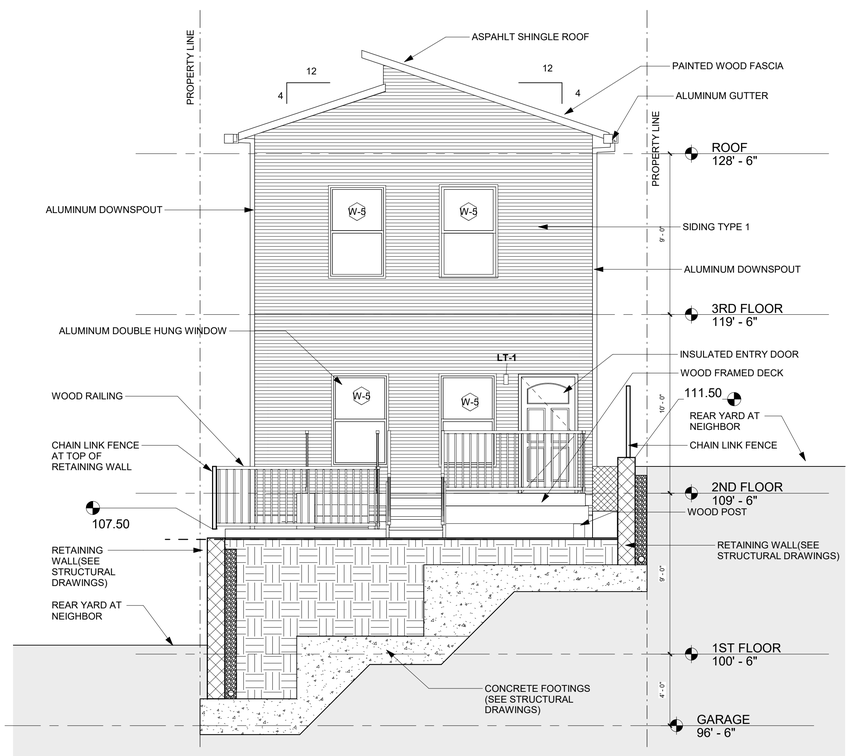
WATER-RESISTIVE BARRIERS. PER R703.7.3, WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R703.2 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFOR- MANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. THE INDIVIDUAL LAYERS SHALL BE INSTALLED INDEPENDENTLY SUCH THAT EACH LAYER PROVIDES A SEPARATE CONTINUOUS PLANE AND ANY FLASHING (INSTALLED IN ACCORDANCE WITH SECTION R703.4) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN THE LAYERS.

APPLICATION. PER R703.7.4, EACH COAT SHALL BE KEPT IN A MOIST CONDITION FOR AT LEAST 48 HOURS PRIOR TO APPLICATION OF THE NEXT COAT.

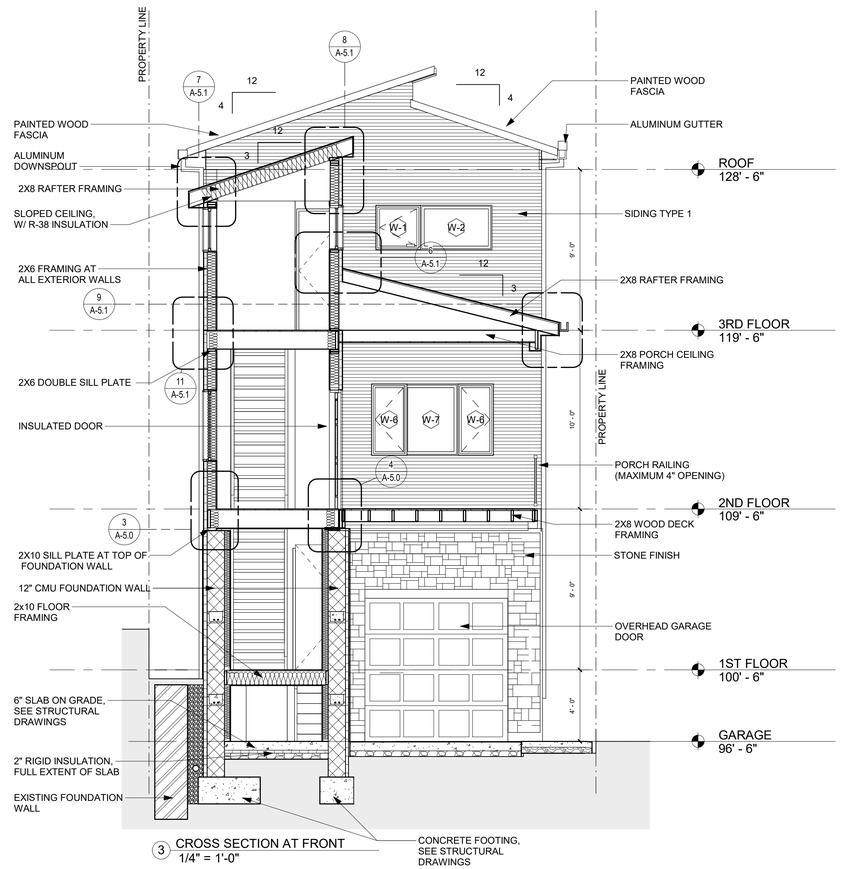
CURING. PER R703.7.5, THE FINISH COAT FOR TWO-COAT CEMENPLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF THE FIRST COAT. FOR THREE-COAT CEMENT PLASTER, THE SECOND COAT SHALL NOT BE APPLIED SOONER THAN 48 HOURS AFTER APPLICATION OF THE FIRST COAT. THE FINISH COAT FOR THREE- COAT CEMENT PLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF THE SECOND COAT.



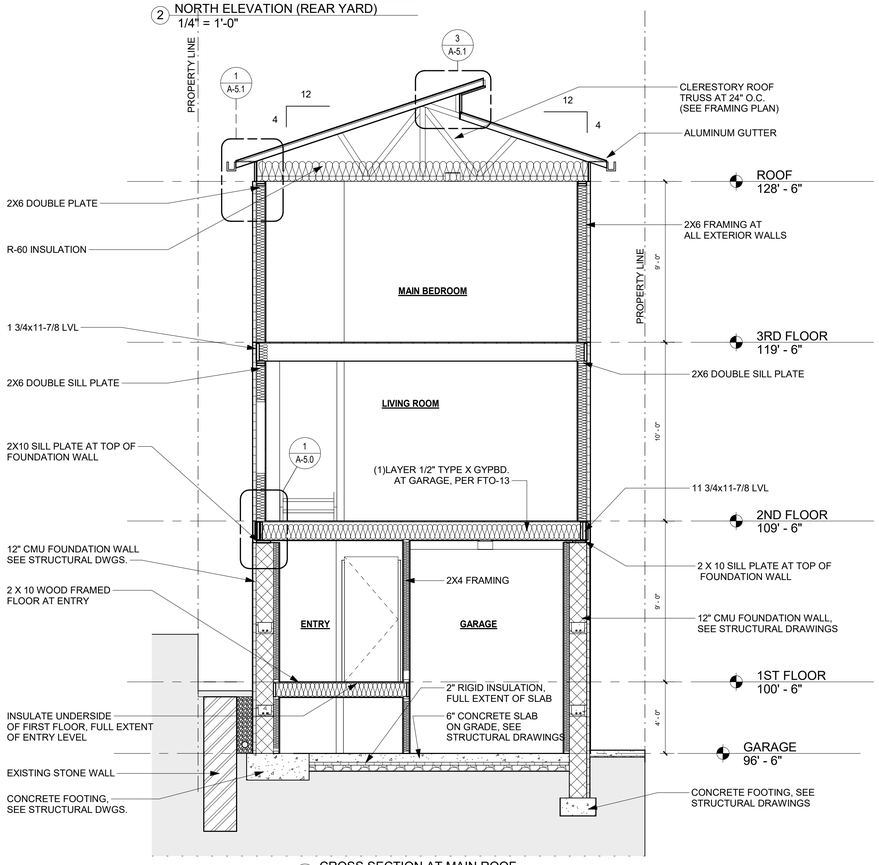
1 SOUTH ELEVATION (NORTH 3RD STREET)
1/4" = 1'-0"



2 NORTH ELEVATION (REAR YARD)
1/4" = 1'-0"



3 CROSS SECTION AT FRONT
1/4" = 1'-0"



4 CROSS SECTION AT MAIN ROOF
1/4" = 1'-0"

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PROJECT NAME

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3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION **DATE**

DRAWING TITLE

NORTH AND SOUTH ELEVATIONS, BUILDING CROSS SECTIONS

DRAWING NO.

A-4.0

DATE: 06/09/2023

SCALE: 1/4" = 1'-0"

STAMP & SIGNATURE

NJ LICENSE 20591

EXTERIOR WALL NOTES (CONTINUED)

ANCHORED STONE AND MASONRY VENEER. PER R703.8 , ANCHORED STONE AND MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH THIS CHAPTER, TABLE R703.3(1) AND FIGURE R703.8. THESE VENEERS INSTALLED OVER A BACKING OF WOOD OR COLD-FORMED STEEL SHALL BE LIMITED TO THE FIRST STORY ABOVE GRADE PLANE AND SHALL NOT EXCEED 5" IN THICKNESS. SEE SECTION R602.10 FOR WALL BRACING REQUIREMENTS FOR MASONRY VENEER FOR WOOD-FRAMED CONSTRUCTION AND SECTION R603.9.5 FOR WALL BRACING REQUIREMENTS FOR MASONRY VENEER FOR COLD-FORMED STEEL CONSTRUCTION.

EXTERIOR VENEER SUPPORT. PER R703.8.2, EXCEPT IN SEISMIC DESIGN D CATEGORIES EXTERIOR MASONRY VENEERS HAVING AN INSTALLED WEIGHT OF 40 PSF OR LESS SHALL BE PERMITTED TO BE SUPPORTED ON WOOD OR COLD-FORMED STEEL CONSTRUCTION. WHERE MASONRY VENEER SUPPORTED BY WOOD OR COLD-FORMED STEEL CONSTRUCTION ADJOINS MASONRY VENEER SUPPORTED BY THE FOUNDATION, THERE SHALL BE A MOVEMENT JOINT BETWEEN THE VENEER SUPPORTED BY THE WOOD OR COLD-FORMED STEEL CONSTRUCTION AND THE VENEER SUPPORTED BY THE FOUNDATION. THE WOOD OR COLD-FORMED STEEL CONSTRUCTION SUPPORTING THE MASONRY VENEER SHALL BE DESIGNED TO LIMIT THE DEFLECTION TO 1/600 OF THE SPAN FOR THE SUPPORTING MEMBERS. THE DESIGN OF THE WOOD OR COLD-FORMED STEEL CONSTRUCTION SHALL CONSIDER THE WEIGHT OF THE VENEER AND ANY OTHER LOADS.

SUPPORT BY STEEL ANGLE. PER R703.8.2.1, A MINIMUM 6"X4" STEEL ANGEL WITH THE LONG LEG PLACED VERTICALLY, SHALL BE ANCHORED T0 DOUBLE 2"X4" WOOD STUDS OR DOUBLE 350S162 COLD FORMED STEEL STUDS AT A MAXIMUM ON CENTER SPACING OF 16". NOT LESS THAN TWO-THIRDS THE WIDTH OF THE MASONRY VENEER THICKNESS SHALL BEAR ON THE STEEL ANGLE. FLASHING AND WEEP HOLES SHALL BE LOCATED IN THE MASONRY VENEER IN ACCORDANCE WITH FIGURE R703.8.2.1COLD-FORMED STEEL CONSTRUCTION. THE MAXIMUM HEIGHT OF MASONRY VENEER ABOVE THE STEEL ANGLE SUPPORT SHALL BE 12'-8". THE AIRSPACE SEPARATING THE MASONRY VENEER FROM THE WOOD BACKING SHALL BE IN ACCORDANCE WITH SECTIONS R703.8.4 AND R703.8.4.2. THE METHOD OF SUPPORT FOR THE MASONRY VENEER ON WOOD CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH FIGURE R703.8.2.1

LINTELS. PER R703.8.3, MASONRY VENEER SHALL NOT SUPPORT ANY VERTICAL LOAD OTHER THAN THE DEAD LOAD OF THE VENEER ABOVE. VENEER ABOVE OPENINGS SHALL BE SUPPORTED ON LINTELS OF NON- COMBUSTIBLE MATERIALS. THE LINTELS SHALL HAVE A LENGTH OF BEARING NOT LESS THAN 4 INCHES (102 MM). STEEL LINTELS SHALL BE SHOP COATED WITH A RUST-INHIBITIVE PAINT, EXCEPT FOR LINTELS MADE OF CORROSION-RESISTANT STEEL OR STEEL TREATED WITH COAT- INGS TO PROVIDE CORROSION RESISTANCE. CONSTRUCTION OF OPEN- INGS SHALL COMPLY WITH EITHER SECTION R703.8.3.1 OR 703.8.3.

ALLOWABLE SPAN. PER R703.8.3.1, THE ALLOWABLE SPAN SHALL NOT EXCEED THE VALUES SET FORTH IN TABLE R703.8.3.1.

MAXIMUM SPAN. PER R703.8.3.2, THE ALLOWABLE SPAN SHALL NOT EXCEED 18'-3" BE CONSTRUCTED TO COMPLY WITH FIGURE R703.8.3.2.

ANCHORAGE. PER R703.8.4, MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1 ½" WITH NOT LESS THAN 5/8" MORTAR OR GROUT COVER TO OUTSIDE FACE. MASONRY VENEER SHALL CONFORM TO TABLE R703.8.4

GROUT FILL. PER R703.8.4.2, AS AN ALTERNATIVE TO THE AIRSPACE REQUIRED BY TABLE R703.8.4, GROUT SHALL BE PERMITTED TO FILL THE AIRSPACE. WHERE THE AIRSPACE IS FILLED WITH GROUT, A WATER-RESISTIVE BARRIER IS REQUIRED OVER STUDS OR SHEATHING. WHERE THE AIRSPACE IS FILLED, REPLACING THE SHEATHING AND WATER-RESISTIVE BARRIER WITH A WIRE MESH AND *APPROVED* WATER-RESISTIVE BARRIER OR AN *APPROVED* WATER-RESISTIVE BARRIER-BACKED REINFORCEMENT ATTACHED DIRECTLY TO THE STUDS IS PERMITTED

FLASHING. PER R703.8.5,FLASHING SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB AND AT OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHELF ANGLES AND LINTELS WHERE MASONRY VENEERS ARE DESIGNED IN ACCORDANCE WITH SECTION R703.8. SEE SECTION R703.4 FOR ADDITIONAL REQUIREMENTS

WEEPHOLES. PER R703.8.6 , WEEPHOLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS AT A MAXIMUM SPACING OF 33" ON CENTER. WEEPHOLES SHALL BE NOT LESS THAN 3/16" IN DIAMETER. WEEPHOLES SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING;

R703.10 FIBER CEMENT SIDING, PANEL SIDING. PER R703.10.1, FIBER-CEMENT PANELS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186, TYPE A, MINIMUM GRADE II OR ISO 8336, CATEGORY A, MINIMUM CLASS 2. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION EITHER PARALLEL OR PERPENDICULAR TO FRAMING. VERTICAL AND HORIZONTAL JOINTS SHALL OCCUR OVER FRAMING MEMBERS AND SHALL BE PROTECTED WITH CAULKING, OR WITH BATTENS OR FLASHING, OR BE VERTICAL OR HORIZONTAL SHIPLAP, OR OTHERWISE DESIGNED TO COMPLY WITH SECTION R703.1. PANEL SIDING SHALL BE INSTALLED WITH FASTEN- ERS IN ACCORDANCE WITH TABLE R703.3(1) OR THE APPROVED MANUFACTURER'S INSTRUCTIONS.

LAP SIDING. PER R703.10.2, FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12" SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186, TYPE A, MINIMUM GRADE II OR ISO 8336, CATEGORY A, MINIMUM CLASS 2. LAP SIDING SHALL BE LAPPED A MINIMUM OF 1¼" AND LAP SIDING NOT HAVING TONGUE-AND-GROOVE END JOINTS SHALL HAVE THE ENDS PROTECTED WITH CAULKING, COVERED WITH AN H-SECTION JOINT COVER, LOCATED OVER A STRIP OF FLASHING, OR SHALL BE DESIGNED TO COMPLY WITH SECTION R703.1. LAP SIDING COURSES SHALL BE INSTALLED WITH THE FASTENER CONCEALED, IN ACCORDANCE WITH TABLE R703.3(1) OR APPROVED MANUFACTURER'S INSTRUCTIONS.

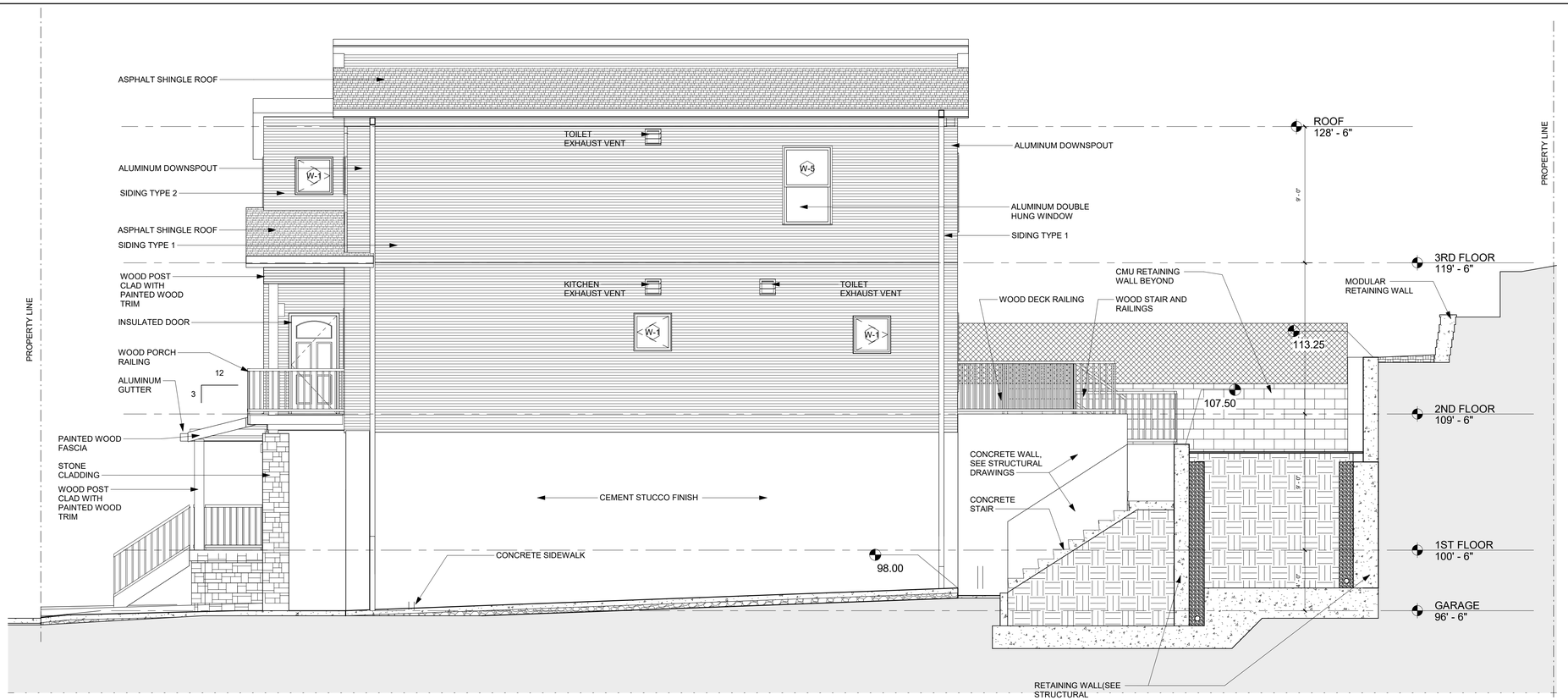
VINYL SIDING. PER R703.11, VINYL SIDING SHALL BE CERTIFIED AND *LABELED* AS CONFORMING TO THE REQUIREMENTS OF ASTM D3679 BY AN *APPROVED* QUALITY CONTROL AGENCY. VINYL SIDING, SOFFIT AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PER R703.11.1.4, VINYL SOFFIT PANELS SHALL BE INDIVIDUALLY FASTENED TO A SUPPORTING COMPONENT SUCH AS A NAILING STRIP, FASCIA OR SUBFASCIA COMPONENT OR AS SPECIFIED BY THE MANUFACTURER'S INSTRUCTIONS

ADHERED MASONRY VENEER INSTALLATION. PER R703.12, ADHERED MASONRY VENEER SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R703.7.3 AND THE REQUIREMENTS IN SECTIONS 12.1 AND 12.3 OF TMS 402/ACI 530/ASCE 5. ADHERED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R703.7.1, ARTICLE 3.3C OF TMS 602/ACI 530.1/ASCE 6 OR THE MANUFACTURER'S INSTRUC- TIONS. PER R703.12.1, CLEARANCES. ON EXTERIOR STUD WALLS, ADHERED MASONRY VENEER SHALL BE INSTALLED AMINIMUM OF 4 INCHES ABOVE THE GROUND, , A MINIMUM OF 2 INCHES ABOVE PAVED AREAS; OR MINIMUM ½" ABOVE EXTERIOR WALKING SURFACES THAT ARE SUPPORTED BY THE SAME FOUNDATION THAT SUPPORTS THE EXTERIOR WALL.

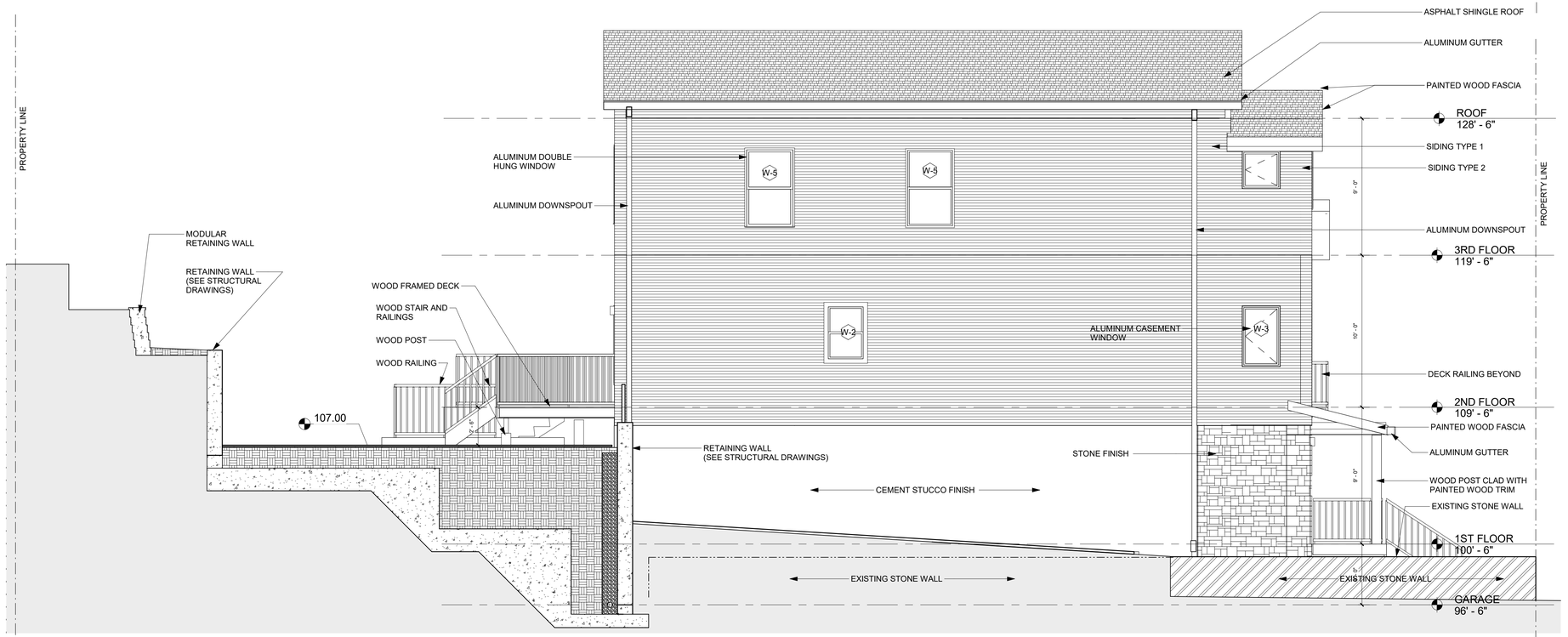
PER. R703.12.2 FLASHING AT FOUNDATION. A CORROSION-RESISTANT SCREED OR FLASHING OF A MINIMUM 0.019-INCH OR 26-GAGE GALVANIZED OR PLASTIC WITH A MINIMUM VERTICAL 2 ATTACHMENT FLANGE OF 3 ½" INCHES SHALL BE INSTALLED TO EXTEND A MINIMUM OF 1" BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH SECTION R703.4.

WATER-RESISTIVE BARRIER. PER R703.12, A WATER-RESISTIVE BARRIER SHALL BE INSTALLED AS REQUIRED BY SECTION R703.2 AND SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R703.6.3. THE WATER-RESISTIVE BARRIER SHALL LAP OVER THE EXTERIOR OF THE ATTACHMENT FLANGE OF THE SCREED OR FLASHING PROVIDED IN ACCORDANCE WITH SECTION R703.12.2

INSULATED VINYL SIDING. PER R703.13, INSULATED VINYL SIDING SHALL BE CERTIFIED AND LABELED AS CONFORMING TO THE REQUIREMENTS OF ASTM D7793 BY AN APPROVED QUALITY CONTROL AGENCY INSULATED VINYL SIDING AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS



2 EAST ELEVATION
1/4" = 1'-0"



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

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146 North 1st Street
Paterson, NJ 07522

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

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646-812-5566

STRUCTURAL ENGINEER:
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20 FRANCISCAN WAY
FAIR LAWN, NJ 07410
201-796-0003

CIVIL ENGINEER:
GOLDEN & MORAN ENGINEERING PC
22 ANGELO DRIVE
SPARTA, NJ 07871
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6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION **DATE**

DRAWING TITLE

EAST AND WEST ELEVATIONS

DRAWING NO.

A-4.1

DATE: 06/09/2023

SCALE: 1/4" = 1'-0"

STAMP & SIGNATURE

NJ LICENSE 20591

ROOF CONSTRUCTION NOTES

R902.1 ROOFING COVERING MATERIALS. ROOFS SHALL BE COVERED WITH MATERIALS AS SET FORTH IN SECTIONS R904 AND R905. CLASS A, B OR C ROOFING SHALL BE INSTALLED IN JURISDICTIONS DESIGNATED BY LAW AS REQUIRING THEIR USE OR WHERE THE EDGE OF THE ROOF IS LESS THAN 3 FEET FROM A LOT LINE. CLASS A, B AND C ROOFING REQUIRED BY THIS SECTION TO BE LISTED SHALL BE TESTED IN ACCORDANCE WITH UL 790 OR ASTM E108.

R902.2 FIRE-RETARDANT-TREATED SHINGLES SHALL BE TREATED BY IMPREGNATION WITH CHEMICALS IN ACCORDANCE WITH AWPA C1. EACH BUNDLE SHALL BE MARKED TO IDENTIFY THE MANUFACTURED UNIT AND THE MANUFACTURER, AND SHALL BE LABELED TO IDENTIFY THE CLASSIFICATION OF THE MATERIAL IN ACCORDANCE WITH THE TESTING REQUIRED IN SECTION R902.1, THE TREATING COMPANY AND THE QUALITY CONTROL AGENCY.

R903.1 GENERAL. ROOF DECKS SHALL BE COVERED WITH APPROVED ROOF COVERINGS SECURED TO THE BUILDING OR STRUCTURE IN ACCOR- DANCE WITH THE PROVISIONS OF THIS CHAPTER. ROOF ASSEMBLIES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF ASSEMBLY SHALL SERVE TO PROTECT THE BUILDING OR STRUCTURE.

R903.2 FLASHING. FLASHINGS SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.

R903.2.1 LOCATIONS. FLASHINGS SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. A FLASHING SHALL BE INSTALLED TO DIVERT THE WATER AWAY FROM WHERE THE EAVE OF A SLOPED ROOF INTERSECTS A VERTICAL SIDEWALL, WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET).

R903.2.2 CRICKETS AND SADDLES. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30 INCHES WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING

R904.2 COMPATIBILITY OF MATERIALS. ROOF ASSEMBLIES SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED

R904.4 PRODUCT IDENTIFICATION. ROOF COVERING MATERIALS SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S IDENTIFING MARKS AND APPROVED TESTING AGENCY *LABELS* REQUIRED. BULK SHIPMENTS OF MATERIALS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER.

R905.1 ROOF COVERING APPLICATION. ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THIS SECTION AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNLESS OTHERWISE SPECIFIED IN THIS SECTION, ROOF COVERINGS SHALL BE INSTALLED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED IN TABLE R301.2(2), ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH TABLE R301.2(3).

R905.1.1 UNDERLAYMENT. UNDERLAYMENT FOR ASPHALT SHINGLES SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN THIS CHAPTER. UNDERLAYMENT MATERIALS REQUIRED TO COMPLY WITH ASTM D226, D1970, D4869 AND D6757 SHALL BEAR A LABEL INDICATING COM- PLIANCE TO THE STANDARD DESIGNATION AND, IF APPLICABLE, TYPE CLASSIFICATION INDICATED IN TABLE R905.1.1(1). UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH TABLE R905.1.1(2). UNDERLAYMENT SHALL BE ATTACHED IN ACCORDANCE WITH TABLE R905.1.1(3).

R905.2.1 SHEATHING REQUIREMENTS. ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

R905.2.2 SLOPE. ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (2:12) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (4:12), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.1.1.

R905.2.4 ASPHALT SHINGLES SHALL COMPLY WITH ASTM D3462

R905.2.4.1 WIND RESISTANCE OF ASPHALT SHINGLES. ASPHALT SHINGLES SHALL BE TESTED IN ACCORDANCE WITH ASTM D7158. ASPHALT SHINGLES SHALL MEET THE CLASSIFICATION REQUIREMENTS OF TABLE R905.2.4.1 FOR THE APPROPRIATE ULTIMATE DESIGN WIND SPEED. ASPHALT SHINGLE PACKAGING SHALL BEAR A LABEL TO INDICATE COMPLIANCE WITH ASTM D7158 AND THE REQUIRED CLASSIFICATION IN TABLE R905.2.4.1.

R905.2.5 FASTENERS. FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12-GAGE [0.105 INCH SHANK WITH A MINIMUM 3/8" DIAMETER HEAD, COMPLYING WITH ASTM F1667, OF A LENGTH TO PENETRATE NOT LESS THAN ¾" INTO THE ROOF SHEATHING. WHERE THE ROOF SHEATH ING IS LESS THAN ¾" THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING.

R905.2.6 ATTACHMENT. ASPHALT SHINGLES SHALL HAVE THE MINIMUM NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER, BUT NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. R905.2.7 ICE BARRIER. WHERE REQUIRED, ICE BARRIERS SHALL COMPLY WITH SECTION R905.1.2.

R905.2.8 FLASHING. FLASHING FOR ASPHALT SHINGLES SHALL COMPLY WITH SECTION R905.2.8.1 BASE AND CAP FLASHING. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION-RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS OR MINERAL-SURFACED ROLL ROOFING WEIGHING NOT LESS THAN 77 POUNDS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS

R905.2.8.2 VALLEYS. VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLYING SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:

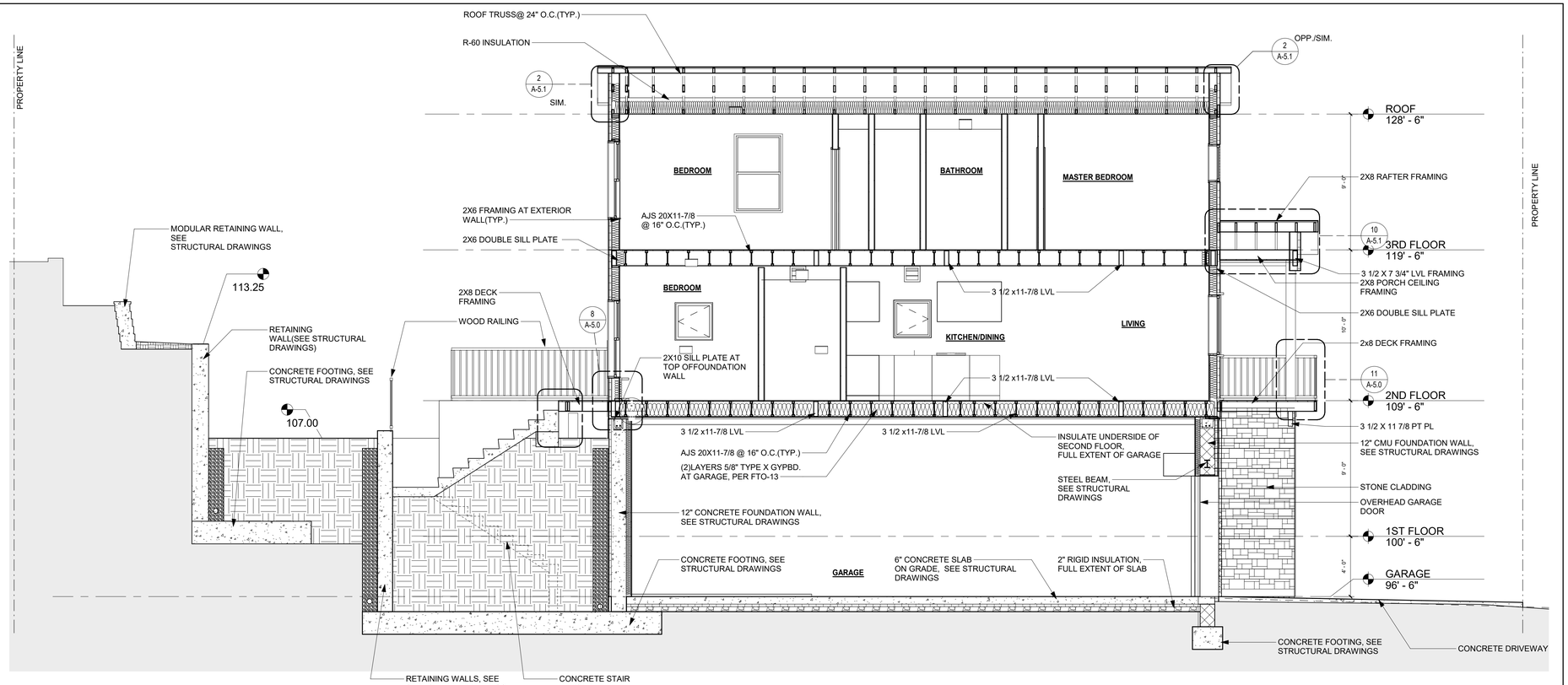
FOR OPEN VALLEYS (VALLEY LINING EXPOSED) LINED WITH METAL, THE VALLEY LINING SHALL BE NOT LESS THAN 24 INCHES WIDE AND OF ANY OF THE CORROSION-RESISTANT METALS IN TABLE R905.2.8.2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL-SURFACED ROLL ROOFING, COMPLYING WITH ASTM D3909 OR ASTM D6380 CLASS M, SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES (457 MM) AND THE TOP LAYER NOT LESS THAN 36 INCHES WIDE

FOR CLOSED VALLEYS (VALLEY COVERED WITH SHINGLES), VALLEY LINING OF ONE PLY OF SMOOTH ROLL ROOFING COMPLYING WITH ASTM D6380 AND NOT LESS THAN 36 INCHES WIDE OR VALLEY LINING AS DESCRIBED IN ITEM 1 OR 2 SHALL BE PERMITTED. SELF-ADHERING POLYMER MODIFIED BITUMEN UNDERLAY- MENT COMPLYING WITH ASTM D1970 SHALL BE PER MITTED IN LIEU OF THE LINING MATERIAL

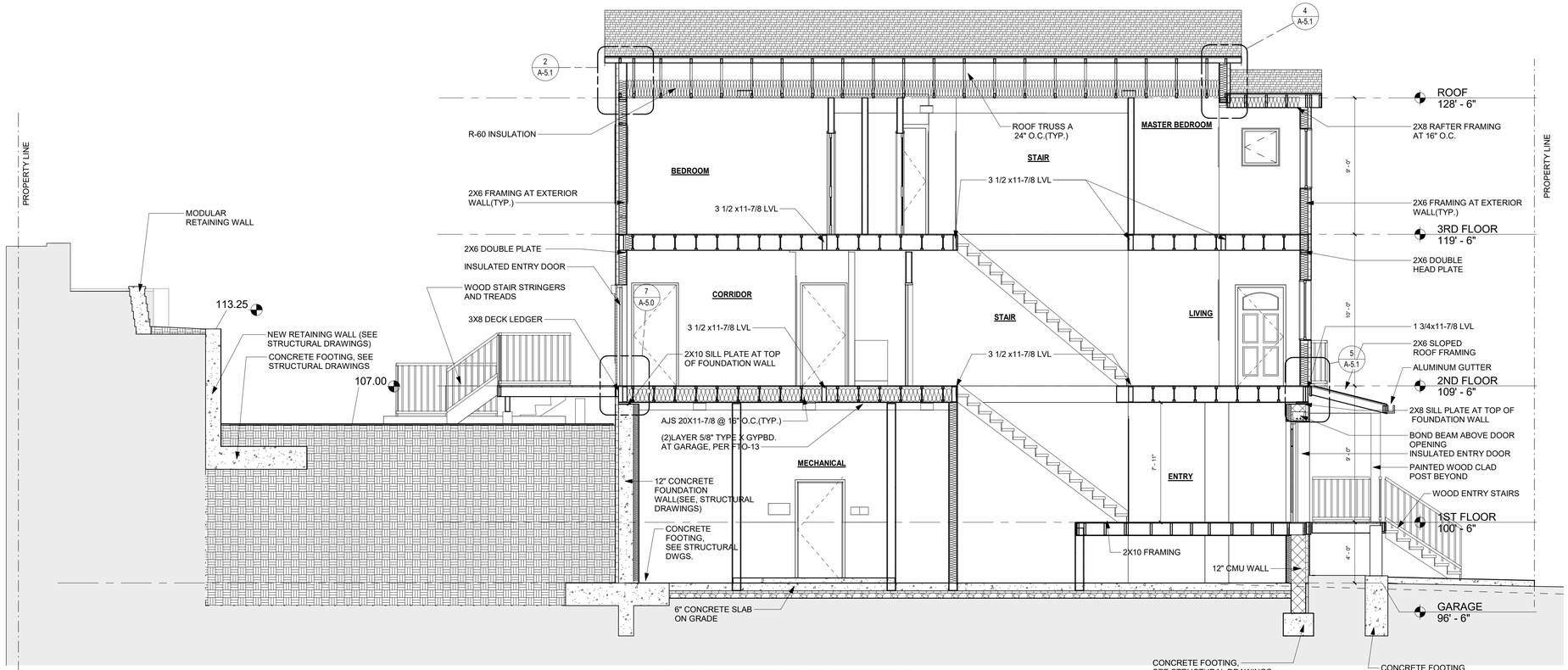
R905.2.8.3 SIDEWALL FLASHING. BASE FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE CONTINUOUS OR STEP FLASHING AND SHALL BE NOT LESS THAN 4 INCHES IN HEIGHT AND 4 INCHES IN WIDTH AND SHALL DIRECT WATER AWAY FROM THE VERTICAL SIDEWALL ONTO THE ROOF OR INTO THE GUTTER. WHERE SIDING IS PROVIDED ON THE VERTICAL SIDE- WALL, THE VERTICAL LEG OF THE FLASHING SHALL BE CONTINUOUS UNDER THE SIDING. WHERE ANCHORED MASONRY VENEER IS PROVIDED ON THE VERTICAL SIDEWALL, THE BASE FLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION AND COUNTERFLASHING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R703.7.2.2. WHERE EXTERIOR PLASTER OR ADHERED MASONRY VENEER IS PROVIDED ON THE VERTICAL SIDEWALL, THE BASE FLASHING SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION AND SECTION R703.6.3

R905.2.8.4 OTHER FLASHIING. PROVIDE FLASHING AGAINST VERTICAL WALLS, AS WELL AS SOIL STACK, VENT PIPE AND OTHER ROOF PENETRATIONS

R905.2.8.5 DRIP EDGE. A DRIP EDGE SHALL BE PROVIDED AT EAVES AND RAKE EDGES OF SHINGLE ROOFS. ADJACENT SEGMENTS OF DRIP EDGE SHALL BE OVERLAPPED NOT LESS THAN 2 INCHES DRIP EDGES SHALL EXTEND NOT LESS THAN ¼" BELOW THE ROOF SHEATHING AND EXTEND UP BACK ONTO THE ROOF DECK NOT LESS THAN 2 INCHES. DRIP EDGES SHALL BE MECHANICALLY FASTENED TO THE ROOF DECK AT NOT MORE THAN 12 INCHES O.C. WITH FASTENERS AS SPEC- IFIED IN SECTION R905.2.5. UNDERLAYMENT SHALL BE INSTALLED OVER THE DRIP EDGE ALONG



1 LONGITUDINAL SECTION AT FRONT PORCH
1/4" = 1'-0"



2 LONGITUDINAL SECTION AT FRONT PROJECTION
1/4" = 1'-0"

Passaic County Habitat for Humanity®
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146 North 1st Street
Paterson, NJ 07522

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

CHEN O'NEIL ARCHITECTS, PLLC
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OSSINING, NY 10562
646-812-5566

STRUCTURAL ENGINEER:
BNJ ENGINEERING PC
20 FRANCISCAN WAY
FAIR LAWN, NJ 07410
201-796-0003

CIVIL ENGINEER:
GOLDEN & MORAN ENGINEERING PC
22 ANGELO DRIVE
SPARTA, NJ 07871
973-714-2131

5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION **DATE**

DRAWING TITLE

LONGITUDINAL BUILDING SECTIONS

DRAWING NO.

A-4.2

DATE: 06/09/2023

SCALE: 1/4" = 1'-0"

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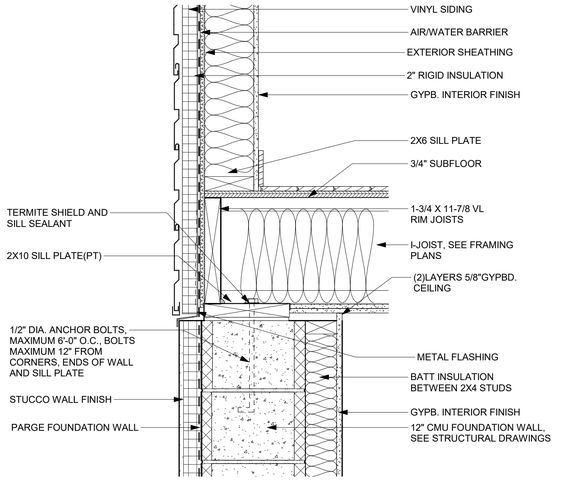
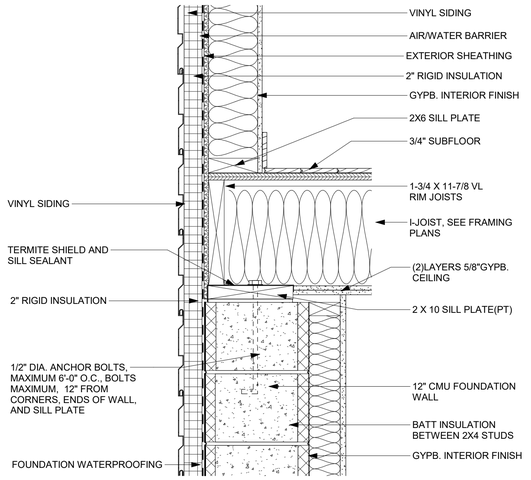
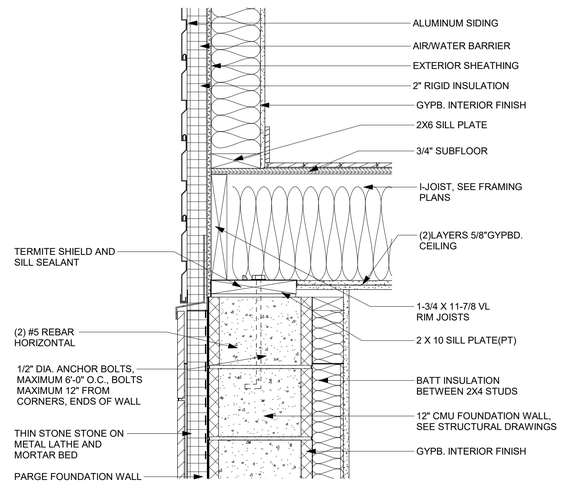


1 FOUNDATION STUCCO TRANSITION TO SIDING
1 1/2" = 1'-0"



2 FOUNDATION WALL WITH SIDING
1 1/2" = 1'-0"



3 FOUNDATION AT STONE RETURN(WEST WALL)
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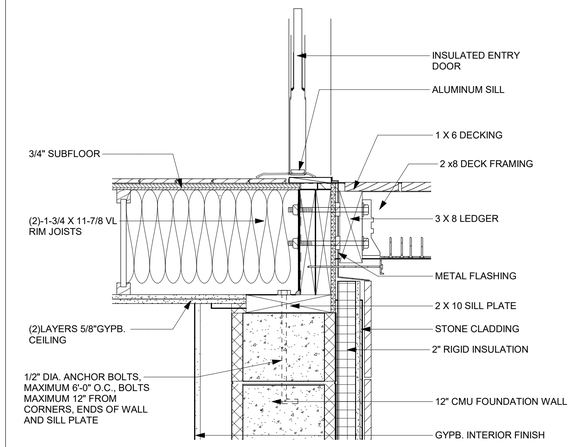

4 DOOR SECTION AT FRONT PORCH
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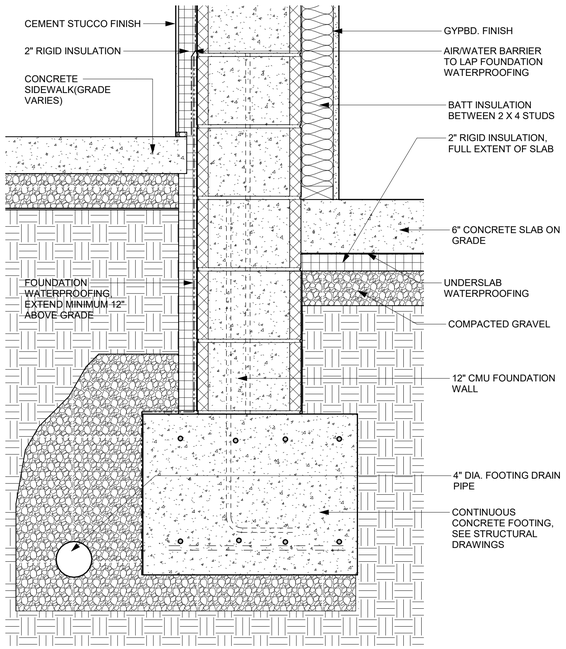

5 TYPICAL FOUNDATION DETAIL -STUCCO
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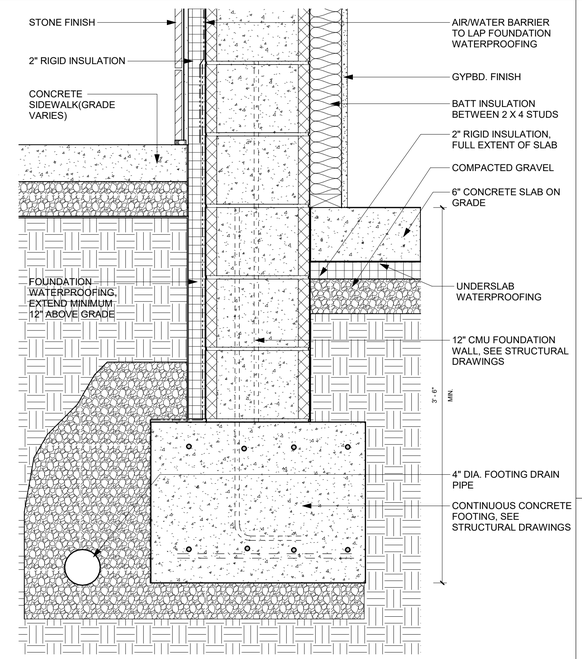

6 TYPICAL FOUNDATION DETAIL - STONE
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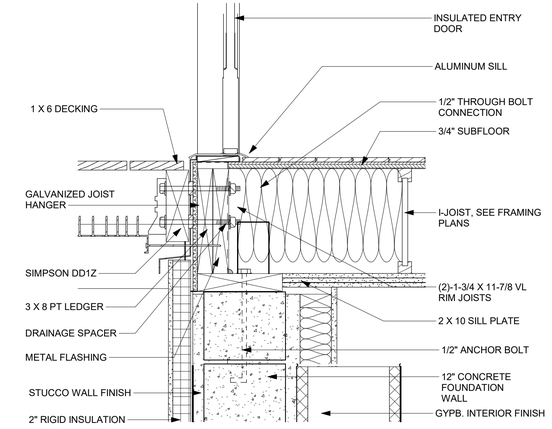
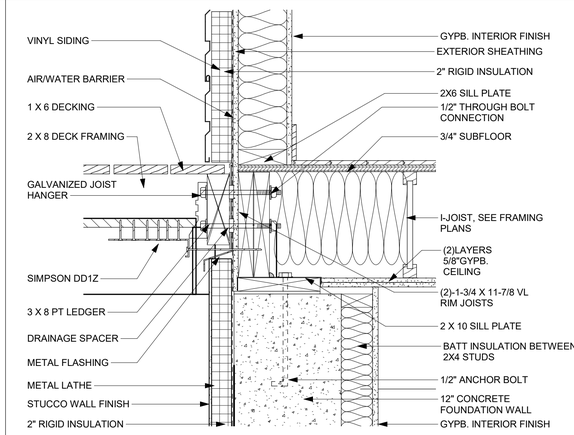
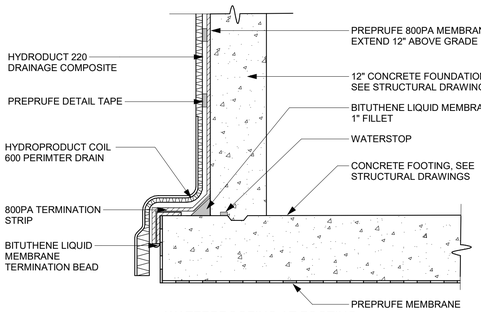


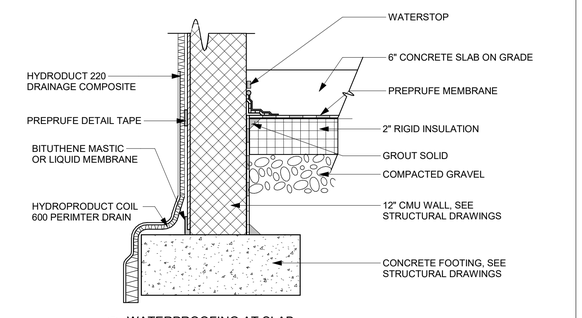
7 DOOR SECTION AT REAR DECK
1 1/2" = 1'-0"



8 REAR DECK LEDGER DETAIL
1 1/2" = 1'-0"



9 WATERPROOFING AT FOOTING
3" = 1'-0"



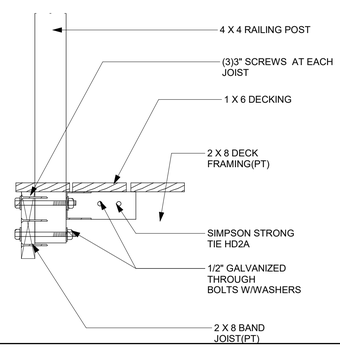
10 WATERPROOFING AT SLAB
3" = 1'-0"

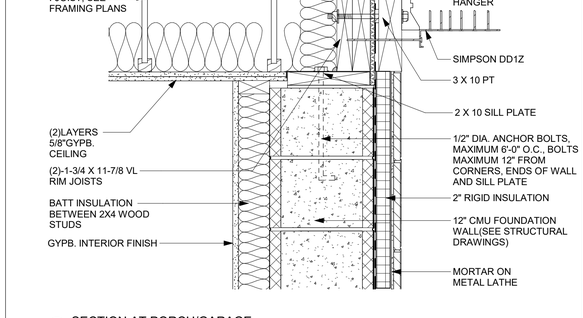
ENERGY CODE COMPLIANCE NOTES:

ALL EXTERIOR WALLS, ROOFS AND FLOOR SLABS TO BE IN COMPLIANCE WITH THE ENERGY SUBCODE (NJAC 5:23-3.18) AND THE INTERNATIONAL ENERGY CONSERVATION CODE/2021.

ALL R-VALUE AND FENESTRATION REQUIREMENTS TO BE PER TABLE R402.1.3

ALL EXTERIOR WALLS TO HAVE A MINIMUM OF 2" CONTINUOUS RIGID INSULATION AT OUTSIDE FACE OF EXTERIOR WALLS





12 SECTION AT PORCH/GARAGE
1 1/2" = 1'-0"

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1	CONCEPT DESIGN	09/09/22

DRAWING TITLE

EXTERIOR WALL DETAILS

DRAWING NO.

A-5.0

DATE: 06/09/2023
SCALE: As indicated

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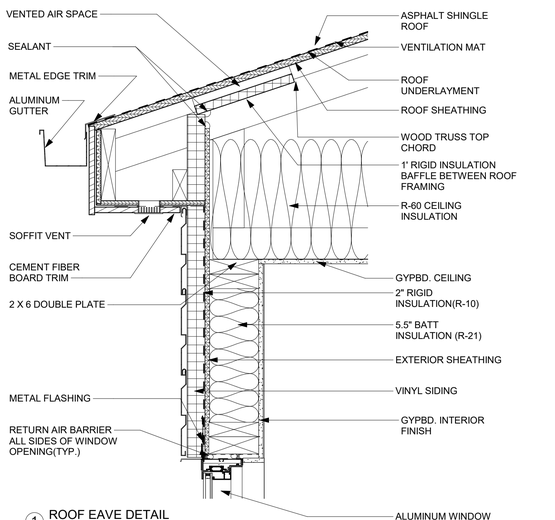
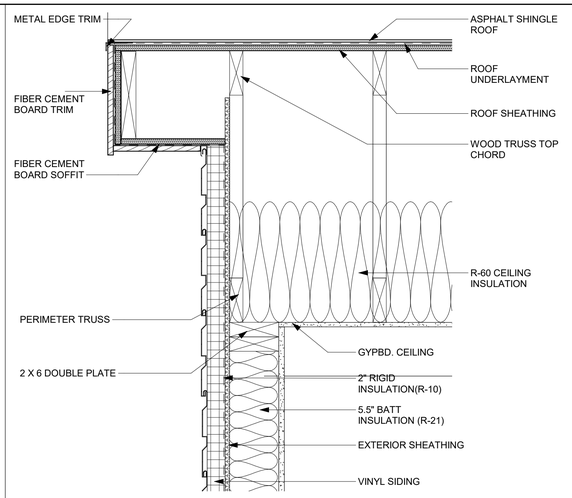
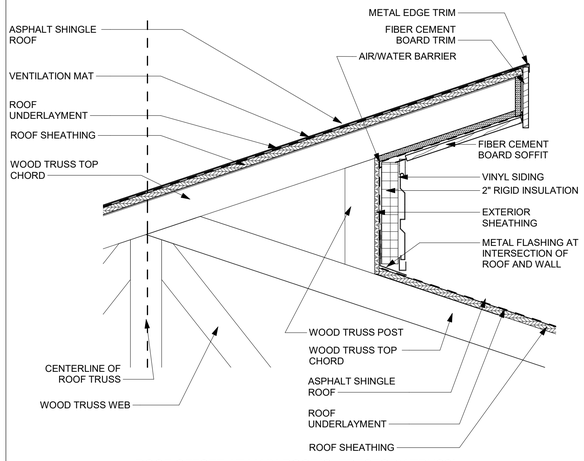


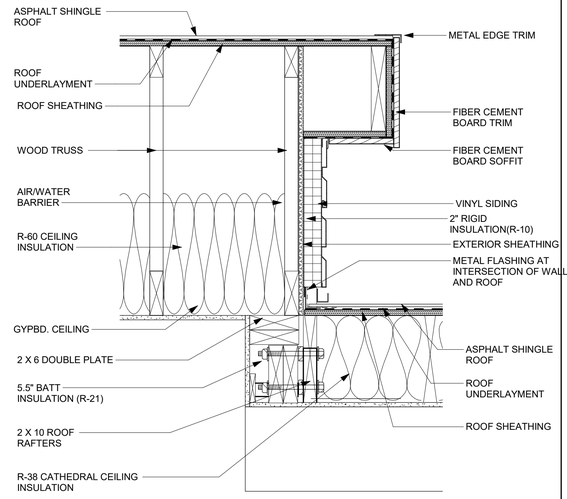
1 ROOF EAVE DETAIL
1 1/2" = 1'-0"



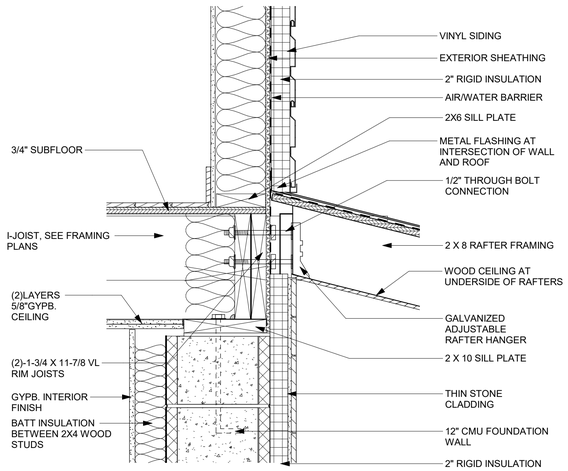
2 ROOF GABLE END DETAIL
1 1/2" = 1'-0"



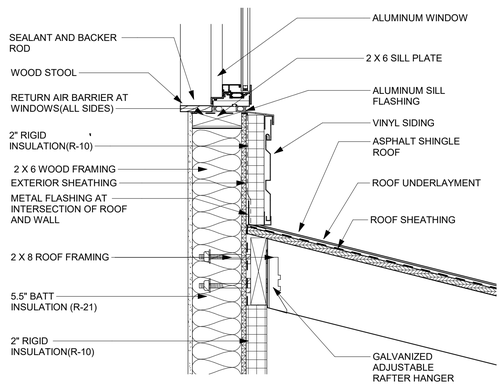
3 ROOF OFFSET AT MAIN ROOF(CLERESTORY TRUSS)
1 1/2" = 1'-0"



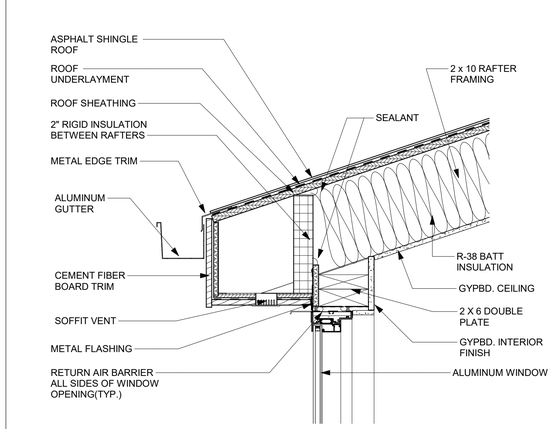
4 ROOF OFFSET FRONT ELEVATION
1 1/2" = 1'-0"



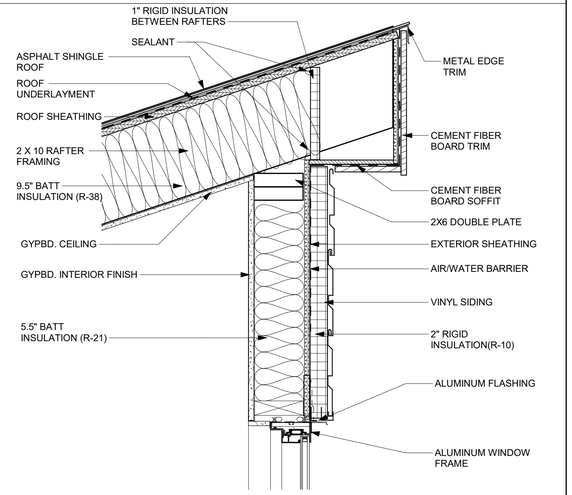
5 ROOF DETAIL AT ENTRANCE
1 1/2" = 1'-0"



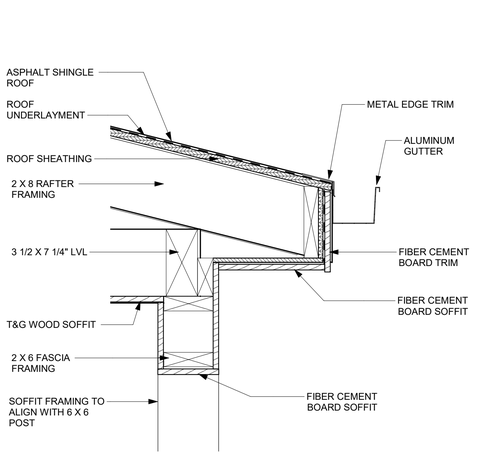
6 ROOF INTERSECTION AT WALL
1 1/2" = 1'-0"



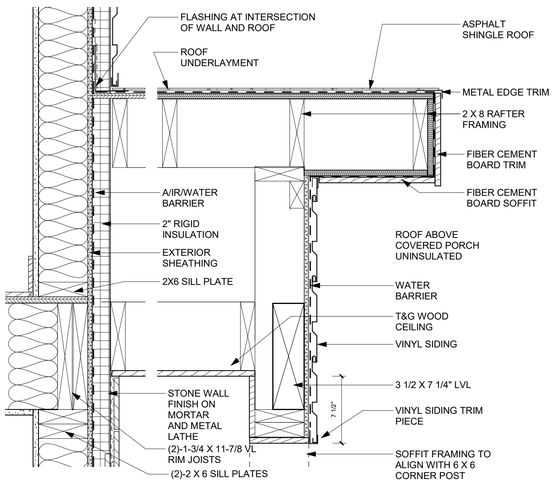
7 FRONT PROJECTION EAVE DETAIL
1 1/2" = 1'-0"



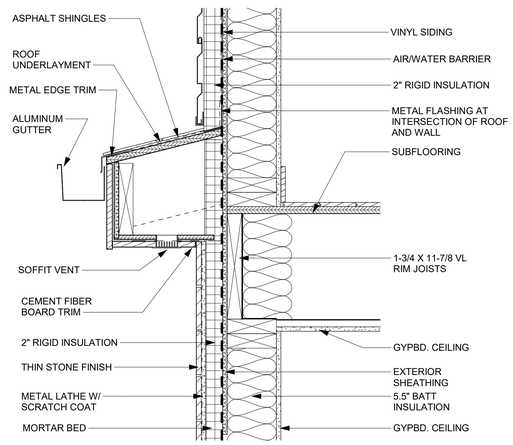
8 FRONT PROJECTION ROOF HIGHPOINT
1 1/2" = 1'-0"



9 ENTRY PORCH ROOF SECTION
1 1/2" = 1'-0"



10 FRONT PORCH COVER SECTION
1 1/2" = 1'-0"



11 ROOF EAVE AT STONE CLADDING
1 1/2" = 1'-0"

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ISSUE/REVISION **DATE**

DRAWING TITLE

EXTERIOR WALL AND ROOF DETAILS

DRAWING NO.

A-5.1

DATE: 06/09/2023

SCALE: 1 1/2" = 1'-0"

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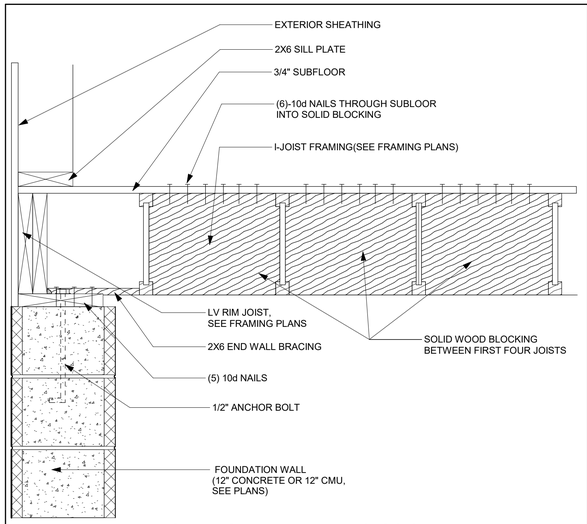
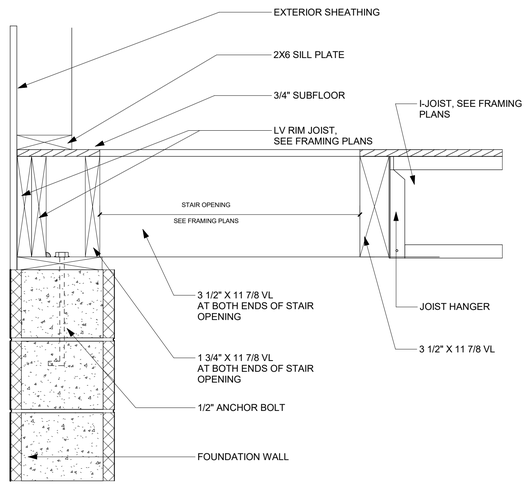
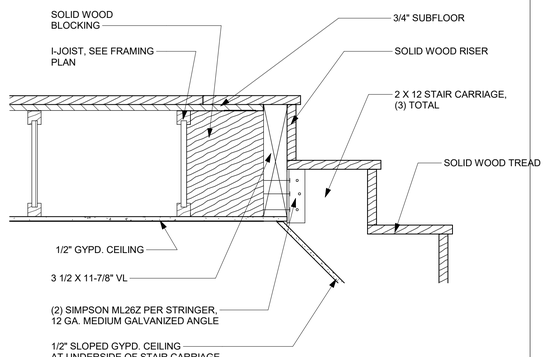


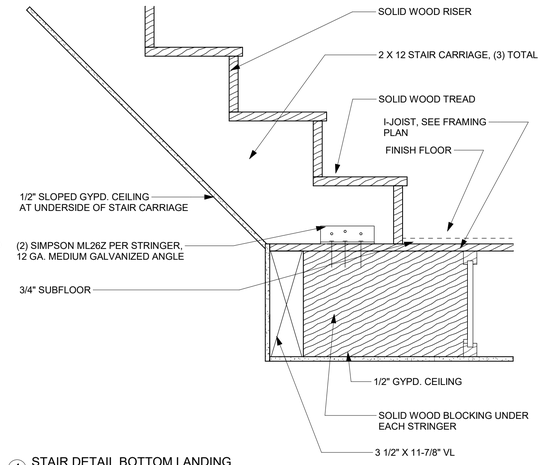
1 FOUNDATION WALL PARALLEL TO JOISTS
1 1/2" = 1'-0"



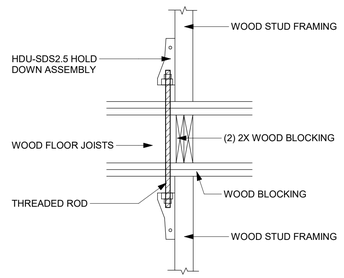
2 FOUNDATION WALL AT STAIR OPENING
1 1/2" = 1'-0"



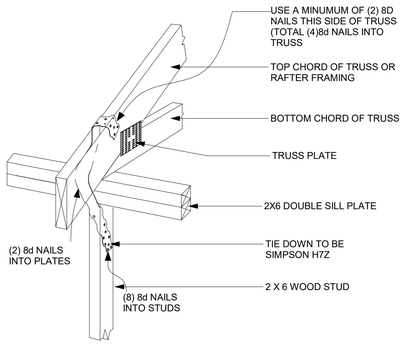
3 STAIR DETAIL TOP LANDING
1 1/2" = 1'-0"



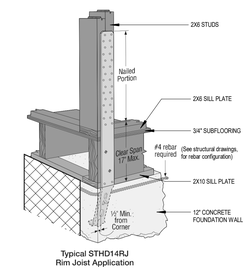
4 STAIR DETAIL BOTTOM LANDING
1 1/2" = 1'-0"



5 WOOD FLOOR ASSEMBLY TIE DOWN
3" = 1'-0"

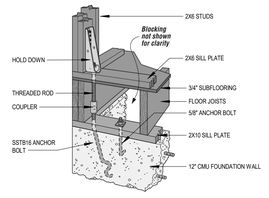


6 ROOF TRUSS TIE-DOWN
1 1/2" = 1'-0"

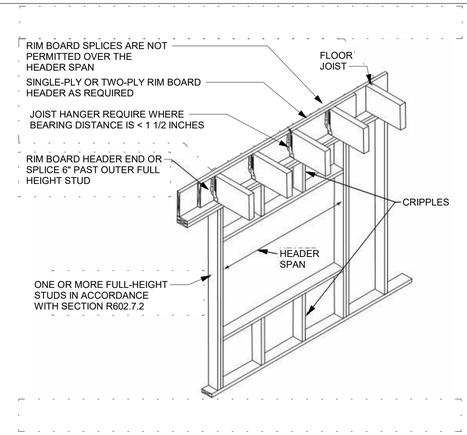


Typical STHD14RJ
Rim Joist Application

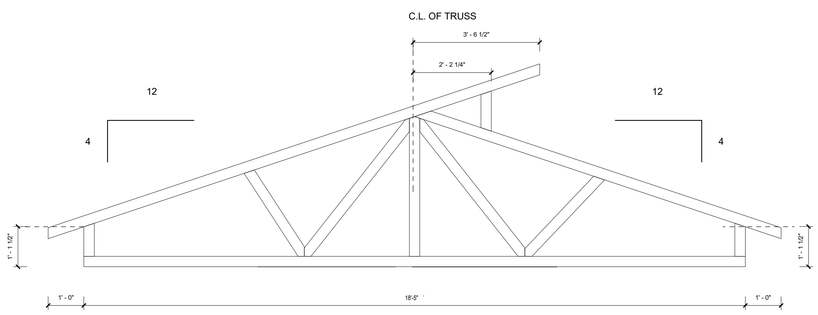
7 RIM JOIST TIE DOWN AT CONCRETE WALL
6" = 1'-0"



8 RIM TIE DOWN AT CMU WALL
3" = 1'-0"



9 FRAMING DETAILS RIM BOARD HEADER
3" = 1'-0"



10 TRUSS ELEVATION - RAISED HEEL CLERESTORY
1/2" = 1'-0"

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ISSUE/REVISION **DATE**

DRAWING TITLE

TYPICAL FRAMING DETAILS

DRAWING NO.

A-5.2

DATE: 06/09/2023
SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591

ENERGY CODE

BUILDING THERMAL ENVELOPE INSULATION. PER N1101.10.1(R303.1.1), AN *R*-VALUE IDENTIFICATION MARK SHALL BE APPLIED BY THE MANUFACTURER TO EACH PIECE OF *BUILDING THERMAL ENVELOPE* INSULATION12 " OR GREATER IN WIDTH. ALTERNATELY, THE INSULATION INSTALLERS SHALL PROVIDE A CERTIFICATION LISTING THE TYPE, MANUFACTURE R AND *R*-VALUE OF INSULATION INSTALLED IN EACH ELEMENT OF THE *BUILDING THERMAL ENVELOPE*. FOR BLOWN OR SPRAYED INSULATION (FIBERGLASS AND CELLULOSE), THE INITIAL INSTALLED THICKNESS, SETTLED THICKNESS, SETTLED *R*-VALUE, INSTALLED DENSITY, COVERAGE AREA AND NUMBER OF BAGS INSTALLED SHALL BE *LISTED* ON THE CERTIFICATION

BLOWN OR SPRAYED ROOF/ CEILING INSULATION. PER N1101.10.1.1(R303.1.1.1), THE THICKNESS OF BLOWN-IN OR SPRAYED ROOF/CEILING INSULATION (FIBERGLASS OR CELLULOSE) SHALL BE WRITTEN IN INCHES ON MARKERS THAT ARE INSTALLED AT LEAST ONE FOR EVERY 300 SQUARE FEET THROUGHOUT THE ATTIC SPACE. THE MARKERS SHALL BE AFFIXED TO THE TRUSSES OR JOISTS AND MARKED WITH THE MINIMUM INITIAL INSTALLED THICKNESS WITH NUMBERS NOT LESS THAN 1" IN HEIGHT. EACH MARKER SHALL FACE THE ATTIC ACCESS OPENING. SPRAY POLYURETHANE FOAM THICKNESS AND INSTALLED *R*-VALUE SHALL BE *LISTED* ON CERTIFICATION PRO- VIDED BY THE INSULATION INSTALLER.

INSULATION MARK INSTALLATION. PER N1101.10.2(R303.1.2), INSULATING MATERIALS SHALL BE INSTALLED SUCH THAT THE MANUFACTURER'S *R*-VALUE MARK IS READILY OBSERVABLE UPON INSPECTION.

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT
TABLE R402.1.3

CLIMATE ZONE:	5
FENESTRATION *U*-FACTOR	0.30
GLAZED FENESTRATION SHGC	0.40
CEILING *R*-VALUE(ATTIC)	60
CEILING R-VALUE(CATHEDRAL)	38
WOOD FRAME WALL *R*-VALUE	13(CAVITY) + 10(CONTINUOUS INSULATION)
MASS WALL *R*-VALUE	17(CAVITY) + 13(CONTINUOUS INSULATION)
FLOOR *R*-VALUE	30
BASEMENT WALL *R*-VALUE	5(CONTINUOUS INSULATION) + 13
SLAB *R*-VALUE & DEPTH	10, 4 ft
CRAWL SPACE WALL *R*-VALUE	10(CONTINUOUS INSULATION) OR 13

N1102.2 (R402.2) SPECIFIC INSULATION REQUIREMENTS (PRE- SCRIPTIVE). IN ADDITION TO THE REQUIREMENTS OF SECTION N1102.1, INSULATION SHALL MEET THE SPECIFIC REQUIREMENTS OF SECTIONS N1102.2.1 THROUGH N1102.2.13.

CEILINGS WITH ATTIC SPACES. PER N1102.2.1 (R402.2.1) WHERE SECTION R1102.1.2 WOULD REQUIRE R-38 INSULATION IN THE CEILING, INSTALLING R-30 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL BE DEEMED TO SATISFY THE REQUIRE- MENT FOR R-38 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R- 30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. SIMILARLY, WHERE SECTION R1102.1.2 WOULD REQUIRE R-49 INSULATION IN THE CEILING, INSTALLING R-38 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL BE DEEMED TO SAT- ISFY THE REQUIREMENT FOR R-49 INSULATION WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-38 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. THIS REDUCTION SHALL NOT APPLY TO THE *U*-FACTOR ALTERNATIVE APPROACH IN SECTION R1102.1.4 AND THE TOTAL UA ALTERNATIVE IN SECTION R1102.1.5.

EAVE BAFFLE, PER N1102.2.3 (R402.2.3). FOR AIR-PERMEABLE INSULATIONS IN VENTED ATTICS, A BAFFLE SHALL BE INSTALLED ADJA- CENT TO SOFFIT AND EAVE VENTS. BAFFLES SHALL MAINTAIN AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT. THE BAFFLE SHALL EXTEND OVER THE TOP OF THE ATTIC INSULATION. THE BAFFLE SHALL BE PERMITTED TO BE ANY SOLID MATERIAL.

BASEMENT WALLS. PER N1102.2.9 (R402.2.9) BASEMENT WALLS. WALLS ASSOCIATED WITH CONDITIONED BASEMENTS SHALL BE INSULATED FROM THE TOP OF THE *BASEMENT WALL* DOWN TO 10 FEET (3048 MM) BELOW GRADE OR TO THE BASEMENT FLOOR, WHICHEVER IS LESS. WALLS ASSOCIATED WITH UNCONDITIONED BASEMENTS SHALL MEET THIS REQUIREMENT UNLESS THE FLOOR OVERHEAD IS INSULATED IN ACCORDANCE WITH SECTIONS N1102.1.2 AND N1102.2.8.

MASONRY VENEER. N1102.2.12 (R402.2.12) INSULATION SHALL NOT BE REQUIRED ON THE HORIZONTAL PORTION OF THE FOUNDATION THAT SUPPORTS A MASONRY VENEER.

AIR LEAKAGE (MANDATORY). PER N1102.4 (R402.4), THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R1102.4.1 THROUGH R1102.4.4.

TESTING PER N1102.4.1.2 (R402.4.1.2), THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING THREE AIR CHANGES PER HOUR IN CLIMATE ZONES TR-4A. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E779 OR ASTM E1827 AND REPORTED AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS). WHERE REQUIRED BY THE *CODE OFFICIAL*, TESTING SHALL BE CON- DUCTED BY AN *APPROVED* THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CON- DUCTING THE TEST AND PROVIDED TO THE *CODE OFFICIAL*. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PEN ETRATIONS OF THE *BUILDING THERMAL ENVELOPE*.

FENESTRATION AIR LEAKAGE. PER N1102.4.3 (R402.4.3) FENESTRATION AIR LEAKAGE. WINDOWS, AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT WHEN TESTED ACCORDING TO NFRC 400 OR AAMA/ WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND *LISTED* AND *LABELED* BY THE MANUFACTURER.

AIR BARRIER AND INSULATION INSTALLATION, PER TABLE N1102.4.1.1 (402.4.1.1)

GENERAL REQUIREMENTS: A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. THE EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER. BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED. AIR-PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL.

CEILING/ATTIC. THE AIR BARRIER IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE INSULATION AND ANY GAPS IN THE AIR BARRIER SEALED. ACCESS OPENINGS, DROP DOWN STAIRS OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED.THE INSULATION IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE AIR BARRIER.

WALLS . THE JUNCTION OF THE FOUNDATION AND SILL PLATE SHALL BE SEALED. THE JUNCTION OF THE TOP PLATE AND THE TOP OF EXTERIOR WALLS SHALL BE SEALED. KNEE WALLS SHALL BE SEALED. CAVITIES WITHIN CORNERS AND HEADERS OF FRAME WALLS SHALL BE INSULATED BY COMPLETELY FILLING THE CAVITY WITH A MATERIAL HAVING A THERMAL RESISTANCE OF R-3 PER INCH MINIMUM. EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER.

FLOORS (INCLUDING ABOVE GARAGE AND CANTILEVERED FLOORS). THE AIR BARRIER SHALL BE INSTALLED AT ANY EXPOSED EDGE OF INSULATION. FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF SUBFLOOR DECKING, OR FLOOR FRAMING CAVITY INSULATION SHALL BE PERMITTED TO BE IN CONTACT WITH THE TOP SIDE OF SHEATHING, OR CONTINUOUS INSULATION INSTALLED ON THE UNDERSIDE OF FLOOR FRAMING; AND EXTENDS FROM THE BOTTOM TO THE TOP OF ALL PERIMETER FLOOR FRAMING MEMBERS.SHAFTS, PENETRATIONS DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFTS OPENING TO EXTERIOR OR UNCONDITIONED SPACE SHALL BE SEALED.

NARROW CAVITIES BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT, OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.

GARAGE SEPARATION. AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.

RECESSED LIGHTING RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE DRYWALL. RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE AIR TIGHT AND IC RATED.

PLUMBING AND WIRING. BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING IN EXTERIOR WALLS, OR INSULATION THAT ON INSTALLATION READILY CONFORMS TO AVAILABLE SPACE SHALL EXTEND BEHIND PIPING AND WIRING.

SHOWER/TUB ON EXTERIOR WALL. THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL SEPARATE THEM FROM THE SHOWERS AND TUBS. EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL BE INSULATED.

ELECTRICAL BOXES ON EXTERIOR WALLS THE AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR-SEALED BOXES SHALL BE INSTALLED.

HVAC REGISTER BOOTS. HVAC REGISTER BOOTS THAT PENETRATE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE SUBFLOOR OR DRYWALL.

MAXIMUM FENESTRATION *U*-FACTOR AND SHGC (MANDATORY). PER N1102.5 (R402.5), THE AREA-WEIGHTED AVERAGE MAXIMUM FENESTRATION *U*-FACTOR PERMITTED USING TRADEOFFS FROM SECTION N1102.1.5 OR N1105 SHALL BE 0.48 IN CLIMATE ZONES 5 FOR VERTICAL FENESTRATION. THE AREA-WEIGHTED AVERAGE MAXIMUM FENESTRATION SHGC PERMITTED USING TRADEOFFS FROM SECTION N1105 IN CLIMATE ZONES 1 THROUGH 3 SHALL BE 0.50.

DUCTS. PER N1103.3 (R403.3) DUCTS AND AIR HANDLERS SHALL BE IN ACCORDANCE WITH SECTIONS N1103.3.1 THROUGH N1103.3.5.

LIGHTING EQUIPMENT (MANDATORY). N1104.1 (R404.1) NOT LESS THAN 75 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS OR NOT LESS THAN 75 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS. EXCEPTION: LOW-VOLTAGE LIGHTING.

ENERGY STAR VERSION 3.2 CRITERIA

HOMES PERMITED ON OR AFTER January 1, 2024 SHALL USE
VERSION 3.2 (REV 12) FOR COMPLIANCE WITH ENERGY STAR CRITERIA

PROJECT IN CLIMATE ZONE 5, WOOD FRAME CONSTRUCTION
INSULATION QUALITY: GRADE 1

NOTE: IF ANY VALUES FOR ENERGY STAR CRITERIA ARE IN CONFLICT WITH PROVIONS OF THE ENERGY CODE, ENERGY CODE SHALL GOVERN

ENVELOPE, WINDOWS AND DOORS	
Foundations:	Construction Type: Concrete Slab on Grade Gross Area: 807 sf Underslab Insulation = R10 at perimeter for entire depth of slab and underentire slab area Insulation Depth = 4'-0"
Floors Over Unconditioned Spaces: Above Garage/Entry	Construction Type: Wood Frame Gross Area: 808 sf Floor Assembly U Factor = .033
Above-Grade Walls	Construction Type: Wood Frame Solar Absorptance: 0.75 Emittance: 0.90 Wall Assembly U-Factor: 0.045
Thermally Isolated Sunrooms	None
Doors. Opaque	U-factor 0.17 SHGC: Any
≤ 1/2 Lite	U-factor 0.25 SHGC: 0.25
> 1/2 Lite	U-factor 0.30 SHGC: 0.40
Glazing	Orientation: Equally Distributed to North, East, South, West Interior Shade Coefficient: Same as Energy Rating Reference Home, as defined by ANSI/RESNET/ICC Std. 301 Exterior Shading: None U-factor 0.27 SHGC: 0.40
Skylights	None
Ceilings	Construction Type: Wood Frame Ceiling Assembly U-Factor 0.024
Attics:	Vented with Aperture, 1sf per 300 sf ceiling area Radiant Barrier: None
Roofs	Construction Type: Composite shingle on wood sheathing Gross Area: Same as Rated Home Solar Absorptance = 0.92 Emittance = .90
Internal Mass:	Same as Energy Rating Reference Home, as defined by ANSI/ RESNET/ ICC Std. 301

THERMAL DISTRIBUTION SYSTEMS	
Duct Leakage to Outside	0 CFM25 per 100sf of conditioned floor area
Duct Insulation	None, All ductwork to run within conditioned space
Duct Surface Area	Same as Rated Home
Supply and Return Ducts Locations	Ductwork on Second and Third Floors (within conditioned space)
Duct Insulation for Ducts in Unconditioned Space	N/A All ductwork to run within conditioned space
Thermostat Type	Programmable: Same as Energy Rating Reference Home, but with offsets for a programmable thermostat as defined by ANSI/ RESNET/ ICC Std. 301
HEATING SYSTEMS	
Heating Capacity	Heating capacity shall be selected in accordance with ACCA Manual S based on building heating and cooling loads calculated in Accordance with ACCA Manual J, 8th Edition, ASHRAE Handbook of Fundamental, or an equivalent computational procedure
Gas Furnace	95 AFUE
Gas Boiler	95 AFUE
COOLING SYSTEMS	
Cooling Capacity	Heating capacity shall be selected in accordance with ACCA Manual S based on building heating and cooling loads calculated in Accordance with ACCA Manual J, 8th Edition, ASHRAE Handbook of Fundamental, or an equivalent computational procedure
Air Conditioner Air Source Heat Pump	14 SEER 16 SEER
WATER HEATING EQUIPMENT	
Use(gallons per day)	Same as Energy Rating Reference Home, as defined by ANSI/ RESNET / ICC st. 301, except for reduced usage resulting from the dishwasher specified in the Lighting, Appliances and Internal Gains Section
Gas: Storage Tank Capacity	60 Gallons
Gas: Tankless Water Heater	2.20 EUF
LIGHTING AND APPLIANCES	
Lighting	Fraction of qualifying Tier 1 light fixtures to all fixtures in qualifyin light fixture locations: Interior: 90% Exterior and Garage: 0%
Refrigerators	ENERGY STAR, 423 kWh per year
Dishwashers	ENERGY STAR, 0,66 EF, Place Setting Capacity same as rated home
Ceiling Fans	ENERGY STAR, 122 CFM per watt, Quantity = Number of bedrooms +1 when ceiling fans present in the rated home, otherwise quantity = 0
Clothes Washer and Dryer	Same as Energy Rating Reference Home, as defined by ANSI/ RESNET/ ICC Std. 301
Internal Gains	Same as Energy Rating Reference Home, as defined by ANSI/ RESNET/ ICC Std. 301, except for adjustmens for the lighting, refrigerator, diswasher, and ceiling fans specified in this section

Mandatory Requirements for All Certified Homes

Party Responsible	Party Responsible
Requirements Applicable to Path A and B	
Rater	Completion of National Rater Design Review Checklist, Version 3.2 Completion of National Rater Field Checklist, Version 3.2
Builder	Completion of National Water Management System Builder Requirement Version 3.2
Requirements Only Applicable to Path A - HVAC Grading	
HVAC System Design	Completion of HVAC deign report compliant with ANSI / RESNET / ACCA Std. 310, plus the ENERGY STAR Supplement
HVAC Installing Contractor	None, while the HVAC contractor plays a critical role in properly installing and commisioning a system, the Rater is the party responsible for assessing its installation in accordance with ANSI / RESNET / ACCA Std. 310.
Requirements Only Applicable to Path B - HVAC Credential	
HVAC System Design	Completion of National HVAC Design Report Version 3.2
HVAC Installing Contractor	Completion of National HVAC Commissioning Checklist Version 3.2

ENERGY STAR Single-Family New Homes
National Rater Field Checklist, Version 3 / 3.1 / 3.2 (Rev. 12)

Home Address: ______________ City: ______________ State: ______ Permit Date: ______

Thermal Enclosure System	Must Correct	Builder Verified [1]	Rater Verified [2]	N/A [3]
1. High-Performance Fenestration & Insulation				
1.1 Fenestration meets or exceeds specification in Item 2.1 of the National Rater Design Review Checklist.	☐	☐	☐	-
1.2 Insulation meets or exceeds specification in Item 3.1 of the National Rater Design Review Checklist. [4]	☐	☐	☐	-
1.3 All insulation achieves Grade I install. per ANSI / RESNET / ICC 301. Alternatives in Footnote 5. [5,6]	☐	☐	☐	-
2. Fully-Aligned Air Barriers [7] - At each insulated location below, a complete air barrier is provided that is fully aligned as follows:				
Ceilings: At interior or exterior horizontal surface of ceiling insulation in Climate Zones 1-3; at interior horizontal surface of ceiling insulation in Climate Zones 4-8. Also, at exterior vertical surface of ceiling insulation in all climate zones (e.g., using a wind baffle that extends to the full height of the insulation in every bay or a tabbed baffle in each bay with a soffit vent that prevents wind washing in adjacent bays). [8]				
2.1 Dropped ceilings / soffits below unconditioned attics, and all other ceilings.	☐	☐	☐	☐
Walls: At exterior vertical surface of wall insulation in all climate zones; also at interior vertical surface of wall insulation in Climate Zones 4-8. [9]				
2.2 Walls behind showers, tubs, staircases, and fireplaces.	☐	☐	☐	☐
2.3 Attic knee walls and skylight shaft walls. [10]	☐	☐	☐	☐
2.4 Walls adjoining porch roofs or garages.	☐	☐	☐	☐
2.5 Double-walls and all other exterior walls.	☐	☐	☐	-
Floors: At exterior vertical surface of floor insulation in all climate zones and, if over unconditioned space, also at interior horizontal surface including supports to ensure alignment. Alternatives in Footnotes 12 & 13. [11, 12, 13]				
2.6 Floors above garages, floors above unconditioned basements or crawlspaces, and cantilevered floors.	☐	☐	☐	☐
2.7 All other floors adjoining unconditioned space (e.g., rim / band joists at exterior wall or at porch roof).	☐	☐	☐	☐
3. Reduced Thermal Bridging				
3.1 For insulated ceilings with attic space above (i.e., non-cathedralized), Grade I insulation extends to the inside face of the exterior wall below and is ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8. [14]	☐	☐	☐	☐
3.2 For slabs on grade in CZ 4-8, 100% of slab edge insulated to ≥ R-5 at the depth specified by the 2009 IECC and aligned with the thermal boundary of the walls. [15, 16]	☐	☐	☐	☐
3.3 Insulation beneath attic platforms (e.g., HVAC platforms, walkways) ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8.	☐	☐	☐	☐
3.4 At above-grade walls separating conditioned from unconditioned space, one of the following options used (rim / band joists exempted): [17]				
3.4.1 Continuous rigid insulation, insulated siding, or combination of the two is: ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 [18, 19, 20], **OR**;	☐	☐	☐	☐
3.4.2 Structural Insulated Panels **OR**; Insulated Concrete Forms **OR**; Double-wall framing **OR**; [18, 21]	☐	☐	☐	☐
3.4.3 Advanced framing, including all of the Items below: [22]				
3.4.3a Corners insulated ≥ R-6 to edge [23], **AND**;	☐	☐	☐	☐
3.4.3b Headers above windows & doors insulated ≥ R-3 for 2x4 framing or equivalent cavity width, and ≥ R-5 for all other assemblies (e.g., with 2x6 framing) [24], **AND**;	☐	☐	☐	☐
3.4.3c Framing limited at all windows & doors to one pair of king studs, plus one pair of jack studs per window opening to support the header and sill, **AND**;	☐	☐	☐	☐
3.4.3d Interior / exterior wall intersections insulated to same R-value as rest of exterior wall, [25] **AND**;	☐	☐	☐	☐
3.4.3e Minimum stud spacing of 16 in. o.c. for 2x4 framing in all Climate Zones and, in CZ 6-8, 24 in. o.c. for 2x6 framing. [26]	☐	☐	☐	☐
4. Air Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or equivalent material)				
4.1 Ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, & other penetrations to unconditioned space sealed, with blocking / flashing as needed.	☐	☐	☐	-
4.2 Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in insulated ceiling without attic above, exterior surface of fixture insulated to ≥ R-10 in CZ 4-8.	☐	☐	☐	☐
4.3 Above-grade sill plates adjacent to conditioned space sealed to foundation or sub-floor. Gasket also placed beneath above-grade sill plate if resting atop concrete / masonry & adjacent to cond. space. [27,28]	☐	☐	☐	☐
4.4 Continuous top plate or blocking is at top of walls adjoining unconditioned space, and sealed.	☐	☐	☐	☐
4.5 Drywall sealed to top plate at all unconditioned attic / wall interfaces using caulk, foam, drywall adhesive (but not other construction adhesives), or equivalent material. Either apply sealant directly between drywall and top plate or to the seam between the two from the attic above.	☐	☐	☐	☐
4.6 Rough opening around windows & exterior doors sealed. [29]	☐	☐	☐	-
4.7 Walls that separate attached garages from occupiable space sealed and, also, an air barrier installed and sealed at floor cavities aligned with these walls.	☐	☐	☐	☐
4.8 In multifamily buildings, the gap between the common wall (e.g., the drywall shaft wall) and the structural framing between units sealed at all exterior boundaries.	☐	☐	☐	☐
4.9 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with weatherstripping or equivalent gasket.	☐	☐	☐	☐
4.10 Attic access panels, drop-down stairs, & whole-house fans equipped with durable ≥ R-10 cover that is gasketed (i.e., not caulked). Fan covers either installed on house side or mechanically operated. [30]	☐	☐	☐	☐

ENERGY STAR Single-Family New Homes
National Rater Field Checklist, Version 3 / 3.1 / 3.2 (Rev. 12)

HVAC System [31]	Must Correct	Rater Verified [2]	N/A [3]
5. Heating & Cooling Equipment - Complete Track A - HVAC Grading [32] or Track B - HVAC Credential [33]			
Track A: 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA / ICC 310.	☐	☐	☐
Track A: 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA / ICC 310.	☐	☐	☐
Track A: 5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA / ICC 310. See Footnote 34 for exemptions.[34]	☐	☐	☐
Track B: 5b.1 HVAC manufacturer & model number on installed equipment matches either of the following (check box):[35] ☐ National HVAC Design Report ☐ Written approval received from designer	☐	☐	☐
Track B: 5b.2 External static pressure measured by Rater at contractor-provided test locations and documented below:[36] Return-Side External Static Pressure: ________IWC Supply-Side External Static Pressure: ________IWC	☐	☐	☐
Track B: 5b.3 Permitted, but not required: National HVAC Commissioning Checklist collected, with no items left blank.	☐	☐	☐
6. Duct Quality Installation (Applies to Heating, Cooling, Ventilation, Exhaust, & Pressure Balancing Ducts, Unless Noted in Footnote)			
6.1 Ductwork installed without kinks, sharp bends, compressions, or excessive coiled flexible ductwork. [37]	☐	☐	☐
6.2 Bedrooms pressure-balanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Rater-measured pressure differential ≥ -3 Pa and ≤ +3 Pa with respect to the main body of the house when all air handlers are operating. Test configuration and an alternative compliance option in Footnote 38. [38]	☐	☐	-
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥ R-6 [39]	☐	☐	☐
6.4 Rater-measured total duct leakage meets one of the following two options. Alternative in Footnote 41: [40, 41, 42]			
6.4.1 Rough-in: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM25, with air handler & all ducts, building cavities used as ducts, & duct boots installed. All duct boots sealed to finished surface, Rater-verified at final. [43]	☐	☐	☐
6.4.2 Final: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM25, with the air handler & all ducts, building cavities used as ducts, duct boots, & register grilles atop the finished surface (e.g., drywall, floor) installed. [44]	☐	☐	☐
6.5 Rater-measured duct leakage to outdoors the greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM25. [40, 45]	☐	☐	☐
7. Dwelling Unit Mechanical Ventilation Systems ("Vent System") [46] **& Inlets in Return Duct** [47]			
7.1 Rater-measured ventilation rate is within either ± 15 CFM or ±15% of design report value. [48]	☐	☐	-
7.2 A readily-accessible ventilation override control installed and also labeled if its function is n ot obvious (e.g., a label is required for a toggle wall switch, but not for a switch that's on the ventilation equipment). [49]	☐	☐	-
7.3 For any outdoor air inlet connected to a ducted return of the HVAC system (Complete if present; otherwise check "N/A"): [47]			☐
7.3.1 Controls automatically restrict airflow using a motorized damper during vent. off-cycle and occupant override. [50]	☐	☐	-
7.3.2 Rater-measured vent. rate is ≤ 15 CFM or 15% above design value at highest HVAC fan speed. Alt. in Fn. 51. [51]	☐	☐	-
7.4 System fan rated ≤ 3 sones if intermittent and ≤ 1 sone if continuous, or exempted. [52]	☐	☐	-
7.5 If Vent System controller operates the HVAC fan, then HVAC fan operation is intermittent and either the fan type is ECM / ICM or the controls will reduce the run-time by accounting for HVAC system heating or cooling hours. [53]	☐	☐	☐
7.6 Bathroom fans are ENERGY STAR certified if used as part of the Vent System. [54]	☐	☐	☐
7.7 Air inlet location (Complete if ventilation air inlet location was specified on design report; otherwise check "N/A"): [55, 56]			☐
7.7.1 Inlet pulls ventilation air directly from outdoors and not from attic, crawlspace, garage, or adjacent dwelling unit.	☐	☐	-
7.7.2 Inlet is ≥ 2 ft. above grade or roof deck; ≥ 10 ft. of stretched-string distance from known contamination sources not exiting the roof, and ≥ 3 ft. distance from dryer exhausts and sources exiting the roof. [57]	☐	☐	-
7.7.3 Inlet is provided with rodent / insect screen with ≤ 0.5 inch mesh.	☐	☐	-
8. Local Mechanical Exhaust – In each kitchen and bathroom, a system is installed that exhausts directly to the outdoors and meets one of the following Rater-measured airflow and manufacturer-rated sound level standards: [48, 58]			

Location		Continuous Rate	Intermittent Rate [59]	Must Correct	Rater Verified	N/A
8.1 Kitchen	Airflow	≥ 5 ACH, based on kitchen volume [60, 61]	≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume [60, 61, 62]	☐	☐	-
	Sound	Recommended: ≤ 1 sone	Recommended: ≤ 3 sones			
8.2 Bathroom	Airflow	≥ 20 CFM	≥ 50 CFM	☐	☐	-
	Sound	Required: ≤ 1 sone	Recommended: ≤ 3 sones			

	Must Correct	Rater Verified	N/A
9. Filtration			
9.1 MERV 6+ filter(s) installed in each ducted mech. system, designed so all return and mechanically supplied outdoor air passes through filter(s) prior to conditioning, and located to facilitate occupant access & regular service. [63]	☐	☐	☐
9.2 Filter access panel includes gasket and fits snugly against exposed edge of filter when closed to prevent bypass. [64]	☐	☐	☐
10. Combustion Appliances			
10.1 Furnaces, boilers, & water heaters are mechanically drafted or direct-vented. Alternatives in Footnote 67. [65, 66, 67]	☐	☐	☐
10.2 Fireplaces are mechanically drafted or direct-vented. Alternatives in Footnote 68. [65, 66, 68]	☐	☐	☐
10.3 No unvented combustion appliances other than cooking ranges or ovens are located inside the home's pressure boundary. Alternative in Footnote 70. [65, 69, 70]	☐	☐	☐

Rater Name: ______________ Rater Pre-Drywall Inspection Date: __________ Rater Initials: ________
Rater Name: ______________ Rater Final Inspection Date: __________ Rater Initials: ________
Builder Employee: ______________ Builder Inspection Date: __________ Builder Initials: ________

RESNET Registry ID # Rating ID

ENERGY STAR Qualified Homes, Version 3 (Rev. 05)
Water Management System Builder Checklist [1,2,3]

Home Address: ______________ City: ______________ State: ______

Inspection Guidelines	Must Correct	Builder Verified	Rater Verified	N/A
1. Water-Managed Site and Foundation				
1.1 Patio slabs, porch slabs, walks, and driveways sloped ≥ 0.25 in. per ft. away from home to edge of surface or 10 ft., whichever is less. [4]	☐	☐	☐	☐
1.2 Back-fill has been tamped and final grade sloped ≥ 0.5 in. per ft. away from home for ≥ 10 ft. See footnote for alternatives. [4]	☐	☐	☐	☐
1.3 Capillary break beneath all slabs (e.g., slab on grade, basement slab) except crawlspace slabs using either: ≥ 6 mil polyethylene sheeting, lapped 6-12 in., or ≥ 1" extruded polystyrene insulation with taped joints. [5]	☐	☐	☐	☐
1.4 Capillary break at all crawlspace floors using ≥ 6 mil polyethylene sheeting, lapped 6-12 in., and installed using one of the following three options: [5]				
1.4.1 Placed beneath a concrete slab; OR,	☐	☐	☐	☐
1.4.2 Lapped up each wall or pier and fastened with furring strips or equivalent; OR,	☐	☐	☐	☐
1.4.3 Secured in the ground at the perimeter using stakes.	☐	☐	☐	☐
1.5 Exterior surface of below-grade walls finished as follows: • For poured concrete, concrete masonry, and insulated concrete forms, finish with damp-proofing coating. • For wood framed walls, finish with polyethylene and adhesive or other equivalent waterproofing.	☐	☐	☐	☐
1.6 Class 1 vapor retarders not installed on the interior side of air permeable insulation in exterior below-grade walls. [6]	☐	☐	☐	☐
1.7 Sump pump covers mechanically attached with full gasket seal or equivalent.	☐	☐	☐	☐
1.8 Drain tile surrounded with clean gravel and fabric filter. [7]	☐	☐	☐	☐
2. Water-Managed Wall Assembly				
2.1 Flashing at bottom of exterior walls with weep holes included for masonry veneer and weep screed for stucco cladding systems, or equivalent drainage system.	☐	☐	☐	☐
2.2 Fully sealed continuous drainage plane behind exterior cladding that laps over flashing in Item 2.1. Additional bond-break drainage plane layer provided behind all stucco and non-structural masonry cladding wall assemblies. [8]	☐	☐	☐	☐
2.3 Window and door openings fully flashed. [9]	☐	☐	☐	☐
3. Water-Managed Roof Assembly				
3.1 Step and kick-out flashing at all roof-wall intersections, extending ≥ 4" on wall surface above roof deck and integrated with drainage plane above. [10]	☐	☐	☐	☐
3.2 For homes that don't have a slab-on-grade foundation and do have expansive or collapsible soils, gutters & downspouts provided that empty to lateral piping that deposits water on sloping final grade ≥ 5 ft. from foundation or to underground catchment system ≥ 10 ft. from foundation.[11]	☐	☐	☐	☐
3.3 Self-sealing bituminous membrane or equivalent at all valleys & roof deck penetrations. [12]	☐	☐	☐	☐
3.4 In 2009 IECC Climate Zones 5 and higher, self-sealing bituminous membrane or equivalent over sheathing at eaves from the edge of the roof line to > 2 ft. up roof deck from the interior plane of the exterior wall. [12]	☐	☐	☐	☐
4. Water-Managed Building Materials				
4.1 Wall-to-wall carpet *not* installed within 2.5 ft. of toilets, tubs, and showers.	☐	☐	☐	☐
4.2 Cement board or equivalent moisture-resistant backing material installed on all walls behind tub and shower enclosures composed of tile or panel assemblies with caulked joints. Paper-faced backerboard shall not be used. [13]	☐	☐	☐	☐
4.3 In Warm-Humid climates, Class 1 vapor retarders not installed on the interior side of air permeable insulation in above-grade walls, except at shower and tub walls. [6]	☐	☐	☐	☐
4.4 Building materials with visible signs of water damage or mold *not* installed. [14]	☐	☐	☐	☐
4.5 Interior walls *not* enclosed (e.g., with drywall) if either the framing members or insulation products have high moisture content. [15]	☐	☐	☐	☐

Builder Employee: ______________
Builder Signature: ______________ Date: ______________

Builder has completed Builder Checklist in its entirety, except for items that are checked in the Rater Verified column (if any) [2]
Rater Signature: ______________ Date: ______________

ENERGY STAR Single-Family New Homes
National Rater Design Review Checklist, Version 3 / 3.1 / 3.2 (Rev. 12)

If pursuing Track A - HVAC Grading, complete this page. [1]

Home Address: ______________ City: ______________ State: ______ Permit Date: ______

1. Partnership Status	Must Correct	Rater [2] Verified	N/A[3]
1.1 Rater has verified and documented that builder has an ENERGY STAR partnership agreement using energystar.gov/ResPartnerDirectory. [4]	☐	☐	-
2. High-Performance Fenestration			
2.1 Specified fenestration meets or exceeds 2009 IECC or, for National v3.2, 2021 IECC requirements. [5, 6]	☐	☐	-
3. High-Performance Enclosure			
3.1 Specified total building thermal envelope UA meets one of the following options. Note: Item 3.1.2 is not an option for National v3.2.			
3.1.1 Achieves ≤ 100% of the total UA resulting from the U-factors in 2009 IECC Table 402.1.3 or, for National v3.2, 2021 IECC Table 402.1.2. See exception in Fn. 7 [6,7,8,9] **OR**;	☐	☐	☐
3.1.2 For all Versions except National v3.2: Achieves ≤ 133% of the total UA resulting from the U-factors in 2009 IECC Table 402.1.3, per guidance in Footnote 7, AND specified home infiltration does not exceed the following: [6,7,8,9]	☐	☐	☐

2009 IECC Climate Zone	1 - 2	3 - 4	5 - 7	8
Infiltration Limit (ACH50)	≤ 3.0	≤ 2.5	≤ 2.0	≤ 1.5

4a. Review of ANSI / RESNET / ACCA / ICC 310 HVAC Design Report with ENERGY STAR Supplement [10]	Must Correct	Rater Verified	N/A
4a.1 HVAC design report compliant with ANSI / RESNET / ACCA / ICC 310, and the National HVAC Design Supplement to Std. 310 for Dwellings & Units, collected for records, with no applicable Items left blank. [11]	☐	☐	-
4a.2 ANSI / RESNET / ACCA / ICC 310 design review criteria have been met for applicable housing type.	☐	☐	-
4a.3 Cooling sizing % is within the cooling sizing limit selected by the HVAC designer.	☐	☐	☐

Rater Name: ______________ Date of Review: ______________
Rater Signature: ______________ Rater Company Name: ______________

If pursuing Track B - HVAC Credential, complete this page.

Home Address: ______________ City: ______________ State: ______ Permit Date: ______

1. Partnership Status	Must Correct	Rater [2] Verified	N/A[3]
1.1 Rater has verified and documented that builder has an ENERGY STAR partnership agreement using energystar.gov/ResPartnerDirectory. [4]	☐	☐	-
1.2 Rater has verified and documented [12] that HVAC contractor holds credential required to complete National HVAC Commissioning Checklist, unless all equipment to be installed in home to be certified is an exempted type, in which case check "N/A". [13] HVAC Contractor Company Name: ______________	☐	☐	☐
2. High-Performance Fenestration			
2.1 Specified fenestration meets or exceeds 2009 IECC or, for National v3.2, 2021 IECC requirements. [5, 6]	☐	☐	-
3. High-Performance Enclosure			
3.1 Specified total building thermal envelope UA meets one of the following options. Note: Item 3.1.2 is not an option for National v3.2.			
3.1.1 Achieves ≤ 100% of the total UA resulting from the U-factors in 2009 IECC Table 402.1.3 or, for National v3.2, 2021 IECC Table 402.1.2. See exception in Fn. 7 [6,7,8,9] **OR**;	☐	☐	☐
3.1.2 For all Versions except National v3.2: Achieves ≤ 133% of the total UA resulting from the U-factors in 2009 IECC Table 402.1.3, per guidance in Footnote 7, AND specified home infiltration does not exceed the following: [6,7,8,9]	☐	☐	☐

2009 IECC Climate Zone	1 - 2	3 - 4	5 - 7	8
Infiltration Limit (ACH50)	≤ 3.0	≤ 2.5	≤ 2.0	≤ 1.5

4b. Review of ENERGY STAR National HVAC Design Report [14, 15]	Must Correct	Rater Verified	N/A
4b.1 National HVAC Design Report collected for records, with no applicable Items left blank.	☐	☐	-
4b.2 National HVAC Design Report reviewed by Rater for the following parameters (National HVAC Design Report Item # in parenthesis):			
4b.2.1 Cooling season and heating season outdoor design temperatures used in loads (3.3) are within the limits defined for the State and County, or US Territory, where the home will be built, or the designer has provided an allowance from EPA to use alternative values. All limits are published at energystar.gov/hvacdesigntemps. Note that revised (i.e., 2019 Edition) limits are required to be used for all HVAC Design Reports generated after 10/01/2020. [16]	☐	☐	☐
4b.2.2 Number of occupants used in loads (3.4) is within ± 2 of the home to be certified. [17]	☐	☐	☐
4b.2.3 Conditioned floor area used in loads (3.5) is between 100 sq. ft. smaller and 300 sq. ft. larger than the home to be certified. [18]	☐	☐	☐
4b.2.4 Window area used in loads (3.6) is between 15 sq. ft. smaller and 60 sq. ft. larger than the home to be certified, or, for homes to be certified with > 500 sq. ft. of window area, between 3% smaller and 12% larger. [19]	☐	☐	☐
4b.2.5 Predominant window SHGC used in loads (3.7) is within 0.1 of predominant value in the home to be certified. [20]	☐	☐	☐
4b.2.6 Sensible, latent, & total heat gain are documented (3.10 - 3.12) for the orientation of the home to be certified. [21]	☐	☐	☐
4b.2.7 The variation in total heat gain across orientations (3.13) is ≤ 6 kBtuh. [21]	☐	☐	☐
4b.2.8 Cooling sizing % (4.13) is within the cooling sizing limit (4.15) selected by the HVAC designer.	☐	☐	☐

Rater Name: ______________ Date of Review: ______________
Rater Signature: ______________ Rater Company Name: ______________

Passaic County
Habitat for Humanity®

Passaic County
Habitat For Humanity
146 North 1st Street
Paterson, NJ 07522

PROJECT NAME

101 NORTH 3RD STREET SINGLE FAMILY RESIDENCE

CHEN O'NEIL ARCHITECTS, PLLC

29 GANUNG DRIVE
OSSINING, NY 10562
646-812-5566

STRUCTURAL ENGINEER:
BNJ ENGINEERING PC
20 FRANCISCAN WAY
FAIR LAWN, NJ 07410
201-796-0003

CIVIL ENGINEER:
GOLDEN & MORAN ENGINEERING PC
22 ANGELO DRIVE
SPARTA, NJ 07871
973-714-2131

6	ISSUE FOR FILING	06/09/23
5	75% CD SET	03/13/23
4	50% CD SET	02/04/23
3	25% CD SET	12/02/22
2	DESIGN DEVELOPMENT	10/02/22
1	CONCEPT DESIGN	09/09/22

ISSUE/REVISION DATE

DRAWING TITLE

ENERGY STAR NOTES

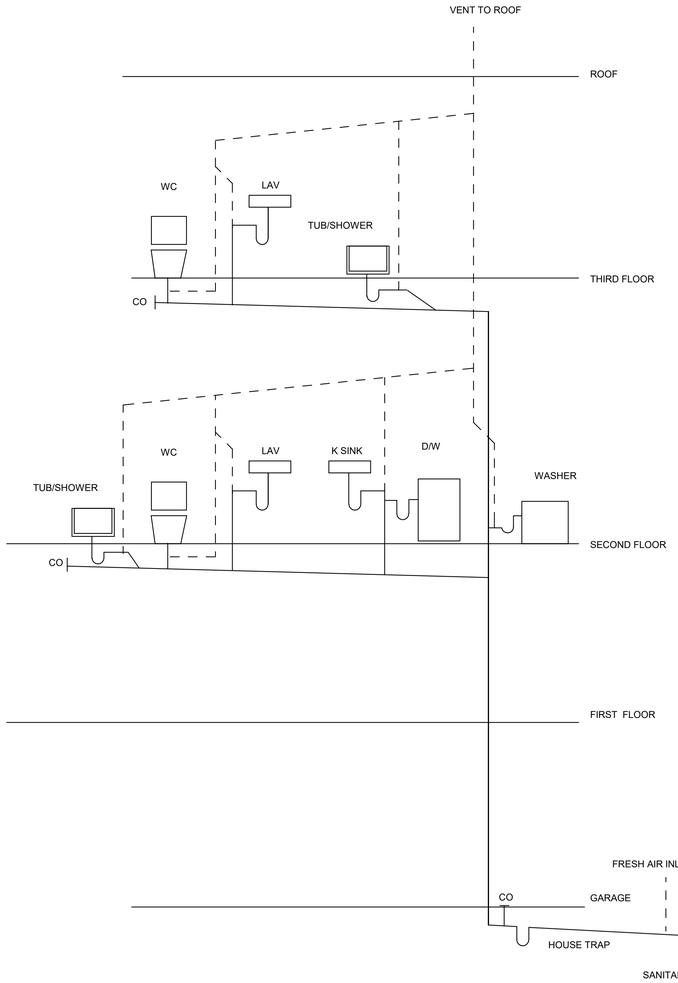
DRAWING NO.

A-6.0

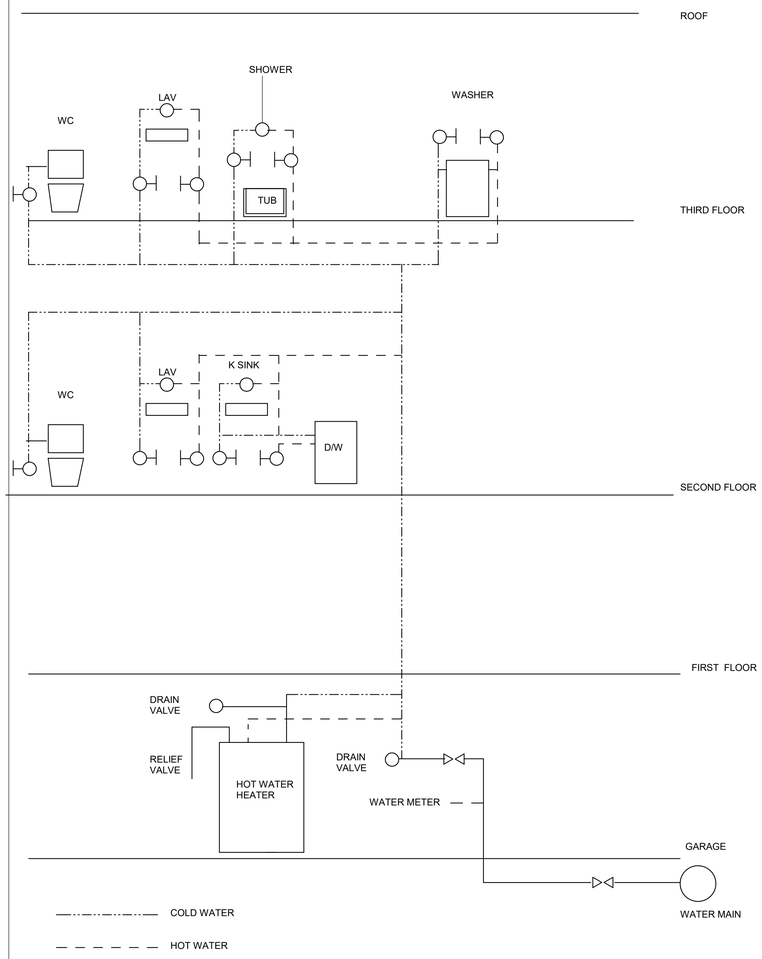
DATE: 06/09/2023
SCALE: As indicated

STAMP & SIGNATURE

NJ LICENSE 20591



SANITARY RISER DIAGRAM



DOMESTIC WATER RISER DIAGRAM

THE PLUMBING SYSTEM AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FULL REQUIREMENTS OF NEW JERSEY PLUMBING CODE.

DO NOT SCALE FROM THESE DRAWINGS.

DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT AND/OR OWNER

ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.

THE CONTRACTOR FOR THIS WORK SHALL CAREFULLY INSPECT AND ACQUAINT HIMSELF WITH SITE CONDITIONS IN ORDER THAT HE FULLY UNDERSTANDS THE WORK REQUIRED. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK. LACK OF THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.

PIPING LAYOUTS ARE DIAGRAMMATIC AND INTEND TO SHOW GENERAL ARRANGEMENT, SIZE AND CAPACITY. ALL OFFSETS ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS AND FITTINGS TO AVOID CONFLICTS WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.

ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL DRAWINGS OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT AND PRIOR TO BID SUBMISSION.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, STATE AND LOCAL CODES ALONG WITH ORDINANCES WHICH MAY BE IN AFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.

THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS— BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL NEW SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING AND PIPING CONNECTIONS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.

ALL PLUMBING FIXTURES SHALL HAVE THERE OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.

SEE CIVIL DRAWING FOR STORMWATER SYSTEM AND DRYWELL DETAILS

PLUMBING NOTES

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