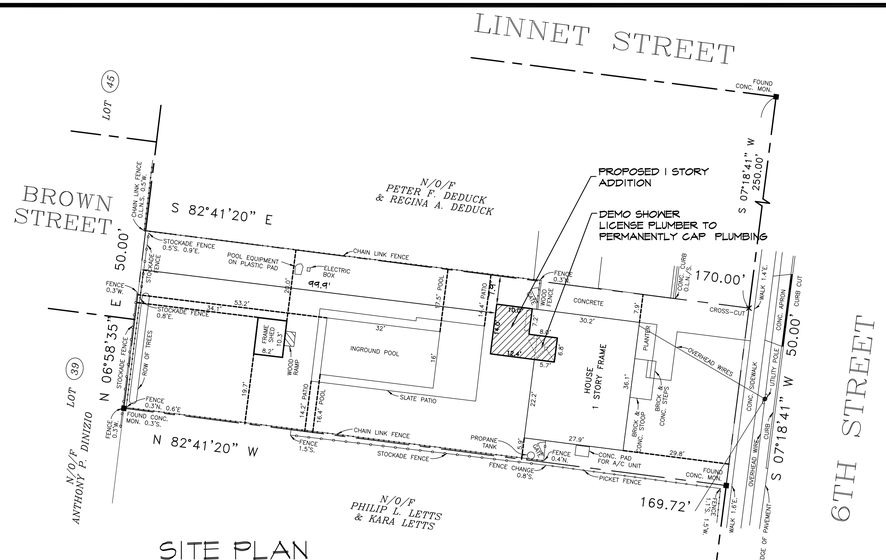

SITE PLAN

SCALE 1" = 20'-0"
FROM A SURVEY

SITE INFORMATION:		
SECTION: 07		
BLOCK: 01		
LOT: 05		
ZONE: V. OF GREEN PORT R-2		
	REQUIRED	PROVIDED
LOT AREA:	7,500 s.f.	8,492 s.f.
LOT AREA OCCUPIED:	2,250 s.f.	1,568.70 s.f.
% OCCUPIED:	30%	18.47%
FRONT WIDTH:	60'	50'
SIDE YARD:	10'	5.9'
SIDE YARDS AGGREGATE:	25'	13.8'
REAR YARD (2 STORIES):	NA	NA
REAR YARD (1 STORY):	30'	94.9'
HEIGHT:	35'	ONE STORY
FRONT YARD SETBACK:	30'	29.8'
2ND FRONT YARD:	NA	NA

CONCRETE & FOUNDATION NOTES:

I. All footings shall bear on virgin soil having a minimum bearing capacity of 3,000 lbs per square foot. All exterior footings shall be a minimum of 3'-0" below grade unless noted otherwise in plans. Piles may be required depending upon local conditions. At the discretion of the engineer a separate foundation plan by a licensed soils engineer may be required. A soil boring stating bearing capacity is required to confirm these and nater table conditions.
II. All existing fill, roots, and other unsuitable bearing material shall be removed and footings carried to the bottom of such excavation. Contractor to verify assumed soil bearing capacity and assume full responsibility for same. A soil boring stating bearing capacity is required to confirm these and nater table conditions. Contractor to notify the designer of any soil variation or condition adversely affecting assumed bearing capacity prior to the pouring of any footings.
III. Minimum compressive strength of concrete at 28 days to be as follows:
A. Footings, piers, foundation walls: pc = 3500 p.s.i. stone concrete.
B. Slab on grade: pc = 3500 p.s.i. concrete per R402.2.
C. Superstructure, slab: pc = 3500 p.s.i. stone concrete per R402.2.
D. All Concrete to have air entrainment of 5% to 7% per R402.2
IV. Anchor bolts shall be set approx. one foot from corners. Set anchor Bolts on either side of all openings and minimum of two bolts in any one sill.
V. Perform required alteration to existing concrete. New nork installed adjacent to and connecting with present nork shall match existing. Joints between new and existing nork shall be trowelled smooth and even. Provide expansion joints.
VI. Provide continuous non-metallic termite shield with all joints sealed along perimeter walls and shielded termite collars at plumbing pipes in crawl spaces unless otherwise noted.
VII. Footings at different levels shall be stepped so that the clear distance between adjacent bottom edges shall not exceed a slope of one vertical to two horizontal.
VIII. Back fill shall not be placed against foundation walls until the concrete is of sufficient strength and until the walls are properly braced top and bottom by the horizontal floor or by adequate temporary bracing.
IX. Concrete Foundations shall be poured continuously. If pour is interrupted a Vertical key shall be provided. Horizontal joints are not permitted.
X. Contractor shall verify dimensions and locations of slots, pipe sleeves, inserts, anchor bolts, electrical conduits, etc. as required for trades before placing concrete.
XI. Concrete: nork included;
A. All footings, foundations, steps, platforms, etc. as per drawings.
B. All concrete slabs.
C. All other norks as required by drawings.
D. Set anchor Bolts.
XII. All forms to be left in place for a minimum of 3 days after completion of pouring.
XIII. Damp Proofing: Nork included:
A. All surfaces to be damp proofed shall be dry, clean and smooth, free of dust, dirt, voids and cracks and shard projections.
B. Allow 24 hours prior to backfilling.
C. Apply mastic emulsion only when temperature is 40 degrees and rising and in dry weather.
D. Apply Celotex Travel Mastic or approved equal on all foundation nalls below grade at basement and crawl spaces.
E. Mastic shall be applied at the rate of 1/8" thick net.
XIV. Contractor to underpin any existing foundation nalls abutting new foundation nalls, footings or excavations with a minimum 16" wide single pour footing to a minimum of 36" below adjoining grade unless noted otherwise in plans.
XV. Contractor to provide a minimum of R4.5 rigid insulation (vertical) as required for frost-protected footings in heated buildings per Table R403.3.

ROOFING NOTES:

I. All metal flashing where called for on plans shall be copper or aluminum.
II. Contractor shall provide gutters and leaders as required and shall connect them to approved storm nater drainage system.
III. All exterior openings shall be properly flashed.
IV. All nork shall bear a written one (1) year guarantee from Roofing Contractor from the date of Owner's acceptance.
V. All roof intersections to have flashing to extend 8" (measured vertically) above flat roof.
VI. Built up roof is to be of 3-ply built up roof with gravel topping, ties into existing.
VII. Roofing shall be either 235# square asphalt shingles over 15# felt or 3-ply mineral surfaced spec. #423-XMD as manufactured by Owens Corning Fiberglass Corp. or approved equal. (2 perma plies with 1 perma-cap sheet 200# square.)
VIII. New nork shall tie in and lap as to prevent leakage.
IX. All exterior nailing shall be aluminum or galvanized.
X. Flashing to be provided at all roof penetrations, pipes, vents, skylights, chimneys and roof ventilators. Flashing to be provided at hips, ridges, valleys, changes of roof slope, gable ends and top of foundation nalls. Flashing against a vertical sidenall shall be by the step-flash method.
XI. A cricket or saddle shall be installed on the ridge side of any chimney or penetration greater than 30" nide as measured perpendicular to the slope. Cricket or saddle coverings shall be sheet metal or of the same material as the roof covering.
XII. Install shims to provide for roof venting in flat roof areas.
XIII. All interior leaders are to have 1" foam sound insulation over PVC piping.

FINISH WORK NOTES:

I. Trim, moldings, casings, nindon frames, etc. shall match existing unless otherwise noted on drawings.
II. All Gypsum Board nalls and ceilings shall be taped, spackled, ready and acceptable to Owner's painter unless otherwise agreed to by the owner.
III. Contractor shall provide nood steps to grade. Number of steps as required by code. All deck lumber to be pressure treated.
IV. Contractor shall provide gutters and leaders as required and shall connect them to the approved storm nater drainage system.
V. Contractor shall seal and prime all doors immediately upon installation to avoid narping.
VI. See table above for maximum U and SHGC values of nindows and doors that are part of thermal envelope. REScheck values shall supercede general notes.
VII. Glass in doors, sidelights, and shoner enclosures shall be sized, constructed, treated or combined with other materials as to minimize effectively the possibility of injuries to persons in the event this glass is cracked or broken.
VIII. All new nindows shall be perma-shield finish in nhite as manufactured by Anderson or approved equal - furnished nith insect screens, grilles, jamb extensions, trim, etc. nith 5/8" insulated glass unless otherwise agreed to.
IX. Nindon manufacturers shall certify that their products meet minimum "U" values indicated and air infiltration.
X. The mechanical system shall be installed in accordance with chapter 12-24 of the Residential Code NY State. Contractor shall certify that the existing H.V.A.C. can support the new addition.
XI. The plumbing system shall be installed in accordance with chapter 25-32 of the Residential Code NY State.
XII. The electrical equipment and niring shall be installed in accordance with chapter 33-42 of the Residential Code NY State.
XIII. The skylights are to comply with section R308.6.
XIV. The minimum insulation thickness for H.V.A.C. pipes shall be installed in accordance with section N1103.5.
XV. The minimum insulation thickness for hot nater pipes shall be installed in accordance with section N1104.5.
XVI. In all framed nalls, floors and roof/ceiling comprising elements of the building thermal envelope, a moisture vapor retarder shall be installed on the narm-in-nnter side of the insulation in accordance with section R318.
XVII. Wall and ceiling finishes shall have a flame spread classification of not greater than 200 nith a smoke-development index of not greater than 450 in accordance nith section R315 and insulation shall have a flame spread index of not greater than 25 nith smoke-developed index of not greater than 450 in accordance nith section R316. Wall and ceiling finishes to comply nith R315 and R316, NY State Res. Code.
XVIII. Interior nall covering shall be installed in accordance nith section R702.3 and exterior nall covering shall be installed in accordance nith section R703.4.
XIX. Asphalt shingles shall be installed in accordance nith section R905.2.
XX. Double floor joists required under parallel partitions and all bathrooms.
XXI. A minimum of 90 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.
XXII. Simpson Strong-Tie products are specifically required to meet the structural calculations of the plan. Before substitution, confirm load capacity based on reliable published testing data or calculations. The Engineer shall evaluate and give written approval for substitution prior to installation.

TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WIND DESIGN (WIND ZONE 1) (EXPOSURE CATEGORY B)				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS (*)	AIR FREEZING INDEX (*)	MEAN ANNUAL TEMP (*)
	SPEED (MPH)	TOPOGRAPHIC EFFECTS (*)	SPECIAL WIND REGION (*)	WIND-BORNE DEBRIS ZONE (*)		WEATHERING	FROST LINE DEPTH	TERMITE					
20 PSF	130 ULT.	NO	NO	1 MILE FROM COAST & FIRE ISLAND	B	SEVERE	36"	MOD-HEAVY	15 F	YES	-	-	-
(*) DESIGN CRITERIA TO BE FILLED IN BY JURISDICTION PER APPLICABLE FOOTNOTE													

CORROSION PREVENTION NOTES:

I. All Simpson connectors, straps, hangers, etc. to be Z-Max type (G185 Galvanized) when contacting pressure treated lumber.
2. If contacting ACZA or ACQ-D Chloride pressure treated lumber or if used in or near naterfront locations, all Simpson connectors, straps, hangers, etc. to be stainless steel type.
3. Z-Max may be used if double Grace Vycor deck protector membrane barrier is provided (see www.strongtie.com).
4. Termite shield to be copper type.
5. All nails into pressure treated lumber to be double hot dipped galvanized type.

GENERAL NOTES:

I. Engineer is not responsible for job supervision.
II. Construction is to be left open until the local building department official has visited the site and instructed that construction may continue. JL. Drafting, Inc. is not responsible for the scheduling of inspections and can not be held liable for costs to expose construction as required for inspection.
III. Contractor to verify adequacy of existing foundations, bearing walls and headers to bear new construction.
IV. Contractor to confirm that all asbestos insulation has been removed from the premises by a licensed asbestos removal company before the start of construction.
V. These drawings have been prepared by or under the direction of the undersigned and to the best of the undersigned's knowledge, belief, and professional judgment are in compliance with the New York State Energy Conservation Construction Code and the Residential Code of New York State effective 5/2020.
VI. It is a violation of the New York State Education Law for any person, unless acting under the direction of a registered Architect or a licensed Professional Engineer to alter any item on this drawing. All alterations must be made in compliance with the New York State Education Law, and Construction Code. The undersigned professional whose seal appears hereon assumes no responsibility for any alteration or reuse without his written consent.
VII. The liability of JL Drafting, Inc. & Norman Lok, P.E. interrante for errors, omissions and/or negligence resulting in personal injuries, property damage, or any consequential damages is limited to the amount of the fee paid for these drawings. The retention or use of all or any part of these drawings will constitute acceptance of this limitation of liability. JL Drafting, Inc. & Norman Lok, P.E. interrante have no liability to persons other than the client for whom these drawings were prepared. Anyone other than JL Drafting's clients who relies on these drawings does so at their own risk. Copyright 2021 JL Drafting, Inc.
VIII. The issuing and / or granting of any certificate of use or occupancy is totally and completely under the control of the town, village, city or county government. Norman Lok, P.E. and JL Drafting, Inc. assume absolutely no responsibility for the issuing and or granting of any certificates of use and / or occupancy.

WALL SHEATHING TO EXTEND TO TOP OF TOP PLATE	
GNB TO COMPLY WITH R702.1, R702.3, TABLE R702.1 (2)	
ALL DETAILS ON THESE PLANS PROVIDE A CONTINUOUS LOAD PATH.	
BUILDER TO VERIFY FIT OF ALL SIMPSON CONNECTORS BEFORE OBTAINING THEM.	
ALL R.R. & STUDS TO ALIGN TO ALLOW PROPER CONNECTION OF H2A CONNECTORS	
STAIR TREADS TO BE 9" PLUS 3/4" NOSING MIN. & RISERS TO BE MAX. 8-1/4" PER R311. NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MIN. OF 11"	
ALL INSULATION TO HAVE VAPOR BARRIER FACING HEATED AREA.	
GLAZING WHICH IS 5'-0" OR LESS ABOVE STANDING SURFACE OF TUB/ SHOWER SHALL BE TEMPERED GLASS.	
GLAZING WITH AN INDIVIDUAL PANE GREATER THAN 9 S.F. AND A BOTTOM EDGE WHICH IS LESS THAN 18" A.F.F. SHALL BE TEMPERED GLASS.	
WOOD I-JOISTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTRUCTION MANUAL TO BE KEPT AT JOB SITE.	
SIMPSON CONNECTORS MAY BE REPLACED BY EQUIVALENTS.	
MULTIPLE SCL BEAMS (MICROLAM ETC.) TO BE ASSEMBLED & INSTALLED PER MANUFACTURERS SPECIFICATIONS.	
ALL FRAMING LUMBER TO BE DOUGLAS FIR-LARCH #2 OR BETTER.	
FIRE BLOCKING & DRAFT STOPPING REQ'D PER R302.11, R302.12 & R502.2.2	
DEFLECTION OF ALL MEMBERS COMPLIES WITH R301.7 NYS RESIDENTIAL CODE	
PROJECT TO COMPLY WITH NYS RESIDENTIAL MECHANICAL CODE CHAPTERS 12-24, PLUMBING CODE CHAPTERS 25-32, & ELECTRICAL CODE CHAPTERS 33-42.	

LOCATION	DESIGN LIVE LOAD, PSF (PER R301.5)
NON-SLEEPING ROOMS	40
SLEEPING ROOMS	30
ROOF +	20
ATTIC WITH FIXED STAIR	30
ATTIC WITH STORAGE	20
ATTIC WITHOUT STORAGE	10
DECKS	40
BALCONIES	40
GUARDS & HANDRAILS	200
DEAD LOAD FOR ALL = 10 PSF PER R301.4 + PER R301.6	

ALL GLAZING TO BE HIGH PERF. ANDERSEN 400 SERIES LOW-E4 TYPE WITH SIMULATED DIVIDED LIGHT GRILLES.

DOUBLE HUNG	MAX U=0.30;	MAX SHGC=0.28
CASEMENT	MAX U=0.29;	MAX SHGC=0.29
GLIDING	MAX U=0.30;	MAX SHGC=0.26
SPECIALTY	MAX U=0.28;	MAX SHGC=0.30
AWNING	MAX U=0.29;	MAX SHGC=0.28
HINGED FR. DOOR	MAX U=0.30;	MAX SHGC=0.21
SLIDING FR. DOOR	MAX U=0.30;	MAX SHGC=0.23

PER NFRC CERTIFIED VALUES FOR ANDERSEN PRODUCTS.
SKYLIGHT MAX U=0.43 MAX SHGC=0.28
PER NFRC CERTIFIED VALUES FOR VELUX LAMINATED WITH TEMPERED LOW E366 OUTER PANE
DESIGN PRESSURE RATING OF WINDOWS TO BE DP-30 MIN.

TABLE R301.7
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
Rafters having slopes greater than 3/12 with no finished ceiling attached to rafters	L/180
Interior walls and partitions	H/180
Floors and plastered ceilings	L/360
All other structural members	L/240
Exterior walls with plaster or stucco finish	H/360
Exterior walls -- wind loads[a] with brittle finishes	L/240
Exterior walls -- wind loads[a] with flexible finishes	L/120

NOTE: L= span length, H= span height.
a. The wind load shall be permitted to be taken as 0.7 times the component and cladding loads for the purpose of the determining deflection limits herein.

STATE OF NEW YORK PLAN REQUIREMENTS:

CODE ANALYSIS

1. THE STANDARDS USED FOR THE DESIGN OF THE BUILDING ARE THE 2020 BUILDING CODE OF NEW YORK STATE (BCNYS), 2020 RESIDENTIAL CODE OF NEW YORK STATE (RCNYS), 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS) AND 2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS). ENGINEERED DESIGNED STRUCTURAL COMPONENTS PER ASCE 7-16 AND FLOOD DESIGN LOADS IN COMPLIANCE WITH ASCE 24-14 WHERE APPLICABLE.
2. THE AREA OF THE PROPOSED SECOND STORY LIVING SPACE IS 194.44 SQ. FT.
3. PLEASE SEE TABLE R301.2(1) BELOW.
4.

QTY.	WINDOW	TYPE	PROVIDES EGRESS?	PASSED MISSILE TEST?
2	CN24	CASEMENT	YES	NO

NOTE: COMPLIES WITH EGRESS (R 310) & LIGHT & VENT (R303)

QTY.	DOOR	TYPE
1	2668	STANDARD INTERIOR DOOR
1	5068 SLG	SLIDING GLASS DOOR
1	1968	STANDARD INTERIOR DOOR

5. PLEASE SEE THE ATTACHED REScheck PRINTOUT FOR ENERGY CODE COMPLIANCE.
6. PLEASE SEE THE NAILING SCHEDULE PG A-3.
7. THE COMBINATION CARBON MONOXIDE/ SMOKE DETECTOR AND SMOKE DETECTORS ARE SHOWN ON THE FLOOR PLAN.
8. CONTRACTOR TO VERIFY WINDOW & DOOR SIZE AND QUANTITY MATCHES PLAN.

ENERGY COMPLIANCE NOTE: TO THE BEST OF MY KNOWLEDGE, BELIEF & PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH N1105 (R405) SIMULATED PERFORMANCE ALTERNATIVE OF THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS).

APPROVAL STAMPS

LEGEND

- NEW FOUNDATION
- NEW PARTITION
- EXIST. PARTITION
- DEMOLITION PARTITION / FOUND.
- SD — NEW SMOKE DETECTOR HARDWIRED WITH BATTERY BACKUP
- CO/SD — NEW COMBINATION OR SEPARATE SMOKE / CARBON MONOXIDE DETECTOR(S) HARDWIRED WITH BATTERY BACKUP
- H — NEW HEAT DETECTOR HARDWIRED WITH BATTERY BACKUP
- L.B. WALL — LOAD BEARING WALL
- T.B.M. — TO BE MAINTAINED
- ■ — POST TO BELOW
- □ — POST FROM ABOVE
- P.T. — PRESSURE TREATED
- HDG — DOUBLE HOT DIPPED GALVANIZED
- V.I.F. — VERIFY IN FIELD, IF DIFFERENT FROM PLAN CONTACT DESIGN PROFESSIONAL
- P.C. — POURED CONCRETE
- XXX — JOIST HANGER W/ REQ'D CAPACITY IN LBS.
- TECO — JOIST HANGER W/ 600 LB. CAPACITY (MINIMUM)
- DIRECT REPLACEMENT — REPLACEMENT OF EXISTING CONSTRUCTION, WITH LIKE KIND AND QUALITY, WITHIN SAME STRUCTURAL OPENING
- O.T.P. — OWNER TO PROVIDE
- TP — TEMPERED GLASS

DATE:	ISSUE NO.	DESCRIPTION
12/16/24	2	FOR FILING
06/26/24	1	FOR FILING

CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF NORK. NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

CONTRACTOR TO CHECK ALL LUMBER TO ENSURE THAT THE CROWN FACES UP BEFORE INSTALLATION.

STATE OF NEW YORK — NORMAN C. LOK — 089525 — PROFESSIONAL ENGINEER

12/16/24

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NORMAN C. LOK, P.E.
NYS LICENSE NUMBER 089525
707 ROUTE 110 Suite A-1
FARMINGDALE, NY 11735
TEL: (631)755-7920

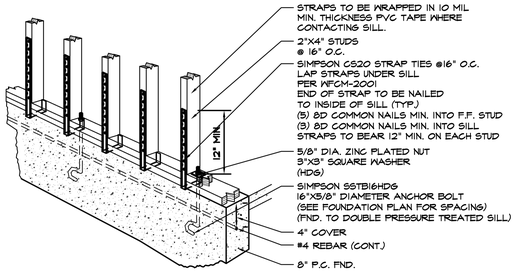
PROJECT TITLE:

BUSCHMAN RESIDENCE
229 6TH STREET
GREENPORT, N.Y. 11944

DRAWING TITLE:

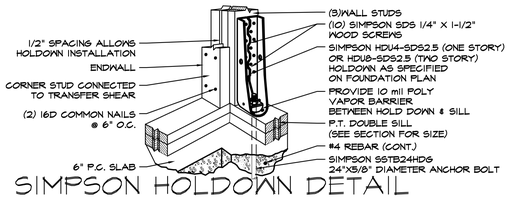
PROPOSED
REAR ADDITION

DRAWN BY:	N.F.
CHECKED BY:	N.C.L.
SCALE:	AS SHOWN
DATE:	06/06/24
DRAWING NUMBER:	A-1
PROJECT NUMBER:	24-132



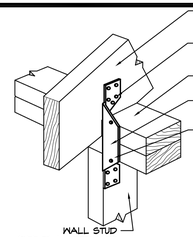
SIMPSON STRONG TIE STUD WALL TO SLAB FOUNDATION CONNECTION DETAIL

N.T.S.

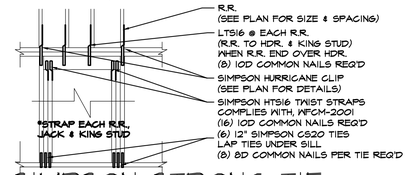


SIMPSON HOLDOWN DETAIL

N.T.S. FOR USE WHEN BUILDING OVER P.C. SLAB **SEE CORROSION PREVENTION NOTES**



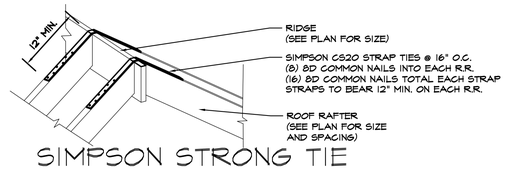
SIMPSON STRONG TIE H2A CONNECTOR DETAIL



SIMPSON STRONG TIE HEADER TO JACK POST DETAIL

SEE CORROSION PREVENTION NOTES

N.T.S.



SIMPSON STRONG TIE RAFTER TO RIDGE TO RAFTER CONNECTION DETAIL

N.T.S.

LEGEND

	NEW FOUNDATION
	NEW PARTITION
	EXIST. PARTITION
	DEMOLITION PARTITION / FOUND.
SD	NEW SMOKE DETECTOR HARDWIRED WITH BATTERY BACKUP
CO/SD	NEW COMBINATION OR SEPARATE SMOKE / CARBON MONOXIDE DETECTOR(S) HARDWIRED WITH BATTERY BACKUP
H	NEW HEAT DETECTOR HARDWIRED WITH BATTERY BACKUP
L.B. WALL	LOAD BEARING WALL
T.B.M.	TO BE MAINTAINED
	POST TO BELOW
	POST FROM ABOVE
P.T.	PRESSURE TREATED
HDG	DOUBLE HOT DIPPED GALVANIZED
V.I.F.	VERIFY IN FIELD, IF DIFFERENT FROM PLAN CONTACT DESIGN PROFESSIONAL
P.C.	POURED CONCRETE
XXX	JOIST HANGER W/ REQ'D CAPACITY IN LBS.
TECO	JOIST HANGER W/ 600 LB. CAPACITY (MINIMUM)
DIRECT REPLACEMENT	REPLACEMENT OF EXISTING CONSTRUCTION, WITH LIKE KIND AND QUALITY, WITHIN SAME STRUCTURAL OPENING
O.T.P.	OWNER TO PROVIDE
TP	TEMPERED GLASS

COMMONLY USED RCNY'S 2020 CODE REFERENCES

R302.7 Under-stair protection. Enclosed space under stairs that is accessed by a door or access panel shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2-inch (12.7 mm) gypsum board.

R309.7 Interior stairway illumination.
Interior stairways shall be provided with an artificial light source to illuminate the landings and treads. The light source shall be capable of illuminating treads and landings to levels of not less than 1 foot-candle (11 lux) as measured at the center of treads and landings. There shall be a wall switch at each floor level to control the light source where the stairway has six or more risers.
Exceptions:
1. A switch is not required where remote, central or automatic control of lighting is provided.
2. Owner-occupied dwellings not supplied with electrical power in accordance with Section E3401.2.1.

R303.8 Exterior stairway illumination.
Exterior stairways shall be provided with an artificial light source located at the top landing of the stairway. Exterior stairways providing access to abasement from the outdoor grade level shall be provided with an artificial light source located at the bottom landing of the stairway.
Exception: Owner-occupied dwellings not supplied with electrical power in accordance with Section E3401.2.1.

R310 EMERGENCY ESCAPE AND RESCUE OPENINGS
R310.1 Emergency escape and rescue opening required.
Basements, habitable attics and 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.
Exception: Storm shelters and basements used only to house mechanical equipment not exceeding a total floor area of 200 square feet.

R310.1.1 Operational constraints and opening control devices.
Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys, tools or special knowledge. Window opening control devices complying with ASTM F 2090 shall be permitted for use on windows serving as a required emergency escape and rescue opening.

R310.2 Emergency escape and rescue openings.
Emergency escape and rescue openings shall have minimum dimensions as specified in this section.

R310.2.1 Minimum opening area.
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 inches (610 mm) and the net clear width shall be not less than 20 inches.
Exception: Grade floor or below grade openings shall have a net clear opening of not less than 5 square feet.

R310.2.2 Window sill height.
Where a window is provided as the emergency escape and rescue opening, it shall have a sill height of not more than 44 inches (1118 mm) above the floor, where the sill height is below grade, it shall be provided with a window well in accordance with Section R310.2.3.

R310.2.3 Window wells.
The horizontal area of the window well shall be not less than 9 square feet (0.9 m), with a horizontal projection and width of not less than 36 inches (914 mm). The area of the window well shall allow the emergency escape and rescue opening to be fully opened.
Exception: The ladder or steps required by Section R310.2.3.1 shall be permitted to encroach not more than 6 inches (152 mm) into the required dimensions of the window well.

R310.2.3.1 Ladder and steps.
Window wells with a vertical depth greater than 44 inches (1118 mm) shall be equipped with a permanently affixed ladder or steps usable with the window in the fully open position. Ladders or steps required by this section shall not be required to comply with Sections R311.7 and R311.8. Ladders or rungs shall have an inside width of not less than 12 inches (305 mm), shall project not less than 3 inches (76 mm) from the wall and shall be spaced not more than 18 inches (457 mm) on center vertically for the full height of the window well.

R310.2.3.2 Drainage.
Window wells shall be designed for proper drainage by connecting to the building's foundation drainage system required by Section R405.1 or by an approved alternative method.
Exception: A drainage system for window wells is not required where the foundation is on well-drained soil or sand-gravel mixture soils in accordance with the United Soil Classification System, Group I Soils, as detailed in Table R405.1.

R310.2.4 Emergency escape and rescue openings under decks and porches.
Emergency escape and rescue openings shall be permitted to be installed under decks and porches provided that the location of the deck allows the emergency escape and rescue openings to be fully opened and provided that the deck is not less than 36 inches (914 mm) in height to a yard or court.

R310.2.5 Replacement windows.
Replacement windows installed in buildings meeting the scope of this code shall be exempt from the maximum sill height requirements of Sections R310.1 and Sections R310.2.1 and R310.2.2, provided the replacement window meets the following conditions:
1. The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window is of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window.
2. The replacement window is not part of a change of occupancy.

R310.3 Emergency escape and rescue doors.
Where a door is provided as the required emergency escape and rescue opening, it shall be permitted to be a side-hinged door or a slider. Where the opening is below the adjacent ground elevation, it shall be provided with a bulkhead enclosure.

R310.3.2 Area wells. Area wells shall have a width of not less than 36 inches (914 mm). The area well shall be sized to allow the emergency escape and rescue door to be fully opened.

R310.3.2.1 Ladder and steps. Area wells with a verticaldepth greater than 44 inches (1118 mm) shall be equipped with a permanently affixed ladder or steps usable with the door in the fully open position. Ladders or steps required by this section shall not be required to comply with Section R311.7. Ladders or rungs shall have an inside width of not less than 12 inches (305 mm), shall project not less than 3 inches (76 mm) from the wall and shall be spaced not more than 18 inches (457 mm) on center vertically for the full height of theexterior stairwell.

R310.3.2.2 Drainage. Area wells shall be designed for proper drainage by connecting to the building's foundation drainage system required by Section R405.1 or by an approved alternative method.
Exception: A drainage system for area wells is not required where the foundation is on well-drained soil or sand-gravel mixture soils in accordance with the United Soil Classification System, Group I Soils, as detailed in Table R405.1.

R311.7.1 Width. Stairways shall be not less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. The clear width of stairways at and below the handrail height, including treads and landings, shall be not less than 311/2 inches (787 mm) where a handrail is installed on one side and 27 inches (648 mm) where handrails are installed on both sides.
Exception: The width of spiral stairways shall be in accordance with Section R311.7.10.1.

R311.7.2 Headroom.
The headroom in stairways shall be not less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stairway.
Exceptions:
1. Where the nosings of treads at the side of a flight extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom not more than 4-3/4 inches (121 mm).
2. The headroom for spiral stairways shall be in accordance with Section R311.7.10.1.

R311.7.6 Landings for stairways.
There shall be a floor or landing at the top and bottom of each stairway. The width perpendicular to the direction of travel shall be not less than the width of the flight served. Landings of shapes other than square or rectangular shall be permitted provided that the depth at the walk line and the total area is not less than that of a quarter circle with a radius equal to the required landing width. Where the stairway has a straight run, the depth in the direction of travel shall be not less than 36 inches (914 mm).
Exception: A floor or landing is not required at the top of an interior flight of stairs, including stairs in an enclosed garage, provided that a door does not swing over the stairs.

R311.7.7 Stairway walking surface.
The walking surface of treads and landings of stairways shall be sloped not steeper than one unit vertical in 48 inches horizontal (2-percent slope).

R311.7.8 Handrails.
Handrails shall be provided on not less than one side of each continuous run of treads or flight with four or more risers.

R311.7.8.1 Height.
Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).
Exceptions:
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.
2. Where handrail fittings or bendings are used to provide continuous transition between flights, transitions at winder treads, the transition from handrail to guard, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed 38 inches (956 mm).

R311.7.8.2 Handrail projection. Handrails shall not project more than 41/2 inches (114 mm) on either side of the stairway.
Exception: Where nosings of landings, floors or passing flights project into the stairway reducing the clearance at passing handrails, handrails shall project not more than 61/2 inches (165 mm) into the stairway, provided that the stair width and handrail clearance are not reduced to less than that required.

R311.7.8.3 Handrail clearance. Handrails adjacent to a wall shall have a space of not less than 11/2 inches (38 mm) between the wall and the handrails.

R311.7.8.4 Continuity. Handrails shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals.
Exceptions:
1. Handrail continuity shall be permitted to be interrupted by a newel post at a turn in a flight with winders, at a landing, or over the lowest tread.
2. A volute, turnout or starting easing shall be allowed to terminate over the lowest tread.

R311.8 Where required. Guards shall be provided for those portions of open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.1.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) in height as measured vertically above the adjacent walking surface or the line connecting the nosings.
Exceptions:
1. Guards on the open sides of stairs shall have a height of not less than 34 inches (864 mm) measured vertically from a line connecting the nosings.
2. 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 inches (864 mm) and not more than 38 inches (965 mm) as measured vertically from a line connecting the nosings.

R312.1.3 Opening limitations.
Required guards shall not have openings from the walking surface to the required guard height that allow passage of a sphere 4 inches (102 mm) in diameter.
Exceptions:
1. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
2. Guards on the open side of stairs shall not have openings that allow passage of a sphere 4-3/8 inches (111 mm) in diameter.

R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

R312.2.1 Window sills. In dwelling units, where the top of the sill of an operable window opening is less than 24 inches above the finished floor and greater than 72 inches above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:
1. Operable windows with openings that will not allow a 4 inch diameter sphere to pass through the opening where the opening is in its largest opened position.
2. Operable windows that are provided with window fall prevention devices that comply with ASTM F 2090.
3. Operable windows that are provided with window opening control devices that comply with R312.2.2.

R312.2.2 Window opening control devices. Window opening control devices shall comply with ASTM F 2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the net clear opening area of the window unit to less than the area required by Section R310.2.1.

R310.5 Dwelling additions.
Where dwelling additions occur that contain sleeping rooms, an emergency escape and rescue opening shall be provided in each new sleeping room. Where dwelling additions occur that have basements, an emergency escape and rescue opening shall be provided in the new basement.
Exceptions:
1. An emergency escape and rescue opening is not required in a new basement that contains a sleeping room with an emergency escape and rescue opening.
2. An emergency escape and rescue opening is not required in a new basement where there is an emergency escape and rescue opening in an existing basement that is accessed from the new basement.

SECTION R317 PROTECTION OF WOOD AND WOOD-BASED PRODUCTS AGAINST DECAY

R317.1 Location required.
Protection of wood and wood-based products from decay shall be provided in the following locations by the use of naturally durable wood or wood that is preservative-treated in accordance with AWPA U1.
1. Wood joists or the bottom of a wood structural floor when closer than 18 inches (457 mm) or wood girders when closer than 12 inches (305 mm) to the exposed ground in crawl spaces or unexcavated area located within the periphery of the building foundation.
2. Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches (203 mm) from the exposed ground.
3. Sills and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated from such slab by an impervious moisture barrier.
4. The ends of wood girders entering exterior masonry or concrete walls having clearances of less than 1/2 inch (12.7 mm) on tops, sides and ends.

R317.1 Location required. (CONTINUED)
5. Wood siding, sheathing and wall framing on the exterior of a building having a clearance of less than 6 inches (152 mm) from the ground or less than 2 inches (51 mm) measured vertically from concrete steps, porch slabs, patio slabs and similar horizontal surfaces exposed to the weather.
6. Wood structural members supporting moisture-permeable floors or roofs that are exposed to the weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier.
7. Wood furring strips or other wood framing members attached directly to the interior of exterior masonry walls or concrete walls below grade except where an approved vapor retarder is applied between the wall and the furring strips or framing members.

R317.1.1 Field treatment.
Field-cut ends, notches and drilled holes of preservative-treated wood shall be treated in the field in accordance with AWPA M4.

R317.1.2 Ground contact.
All wood in contact with the ground, embedded in concrete in direct contact with the ground or embedded in concrete exposed to the weather that supports permanent structures intended for human occupancy shall be approved pressure-preservative-treated wood suitable for ground contact use, except that untreated wood used entirely below groundnater level or continuously submerged in fresh nater shall not be required to be pressure-preservative treated.

R317.1.3 Geographical areas.
In geographical areas where experience has demonstrated a specific need, approved naturally durable or pressure-preservative-treated wood shall be used for those portions of wood members that form the structural supports of buildings, balconies, porches or similar permanent building appurtenances when those members are exposed to the weather without adequate protection from a roof, eave, overhang or other covering that would prevent moisture or nater accumulation on the surface or at joints between members. Depending on local experience, such members may include:
1. Horizontal members such as girders, joists and decking.
2. Vertical members such as posts, poles and columns.
3. Both horizontal and vertical members.

R317.1.4 Wood columns.
Wood columns shall be approved wood of natural decay resistance or approved pressure-preservative-treated nood.
Exceptions:
1. Columns exposed to the weather or in basements where supported by concrete piers or metal pedestals projecting 1 inch (25 mm) above a concrete floor or 6 inches (152 mm) above exposed earth and the earth is covered by an approved impervious moisture barrier.
2. Columns in enclosed crawl spaces or unexcavated areas located within the periphery of the building when supported by a concrete pier or metal pedestal at a height more than 8 inches (203 mm) from exposed earth and the earth is covered by an impervious moisture barrier.
3. Deck posts supported by concrete piers or metal pedestals projecting not less than 1 inch (25 mm) above a concrete floor or 6 inches (152 mm) above exposed earth.

R317.1.5 Exposed glued-laminated timbers.
The portions of glued-laminated timbers that form the structural supports of a building or other structure and are exposed to weather and not properly protected by a roof, eave or similar covering shall be pressure treated with preservative, or be manufactured from naturally durable or preservative-treated nood.

R317.2 Quality mark.
Lumber and plywood required to be pressure-preservative treated in accordance with Section R318.1 shall bear the quality mark of an approved inspection agency that maintains continuing supervision, testing and inspection over the quality of the product and that has been approved by an accreditation body that complies with the requirements of the American Lumber Standard Committee treated nood program.

R317.2.1 Required information.
The required quality mark on each piece of pressure-preservative-treated lumber or plywood shall contain the following information:
1. Identification of the treating plant. ; 2. Type of preservative.
3. The minimum preservative retention. ; 4. End use for which the product was treated.
5. Standard to which the product nas treated. ; 6. Identity of the approved inspection agency. ; 7. The designation Dry, if applicable.
Exception: Quality marks on lumber less than 1 inch (25 mm) nominal thickness, or lumber less than nominal 1 inch by 5 inches (25 mm by 127 mm) or 2 inches by 4 inches (51 mm by 102 mm) or lumber 36 inches (914 mm) or less in length shall be applied by stamping the faces of exterior pieces or by end labeling not less than 25 percent of the pieces of a bundled unit.

R317.3 Fasteners and connectors in contact with preservative-treated and fire-retardant-treated wood.
Fasteners, including nuts and washers, and connectors in contact with preservative-treated nood and fire-retardant-treated nood shall be in accordance with this section. The coating neights for zinc-coated fasteners shall be in accordance with ASTM A 153. Stainless steel driven fasteners shall be in accordance with the material requirements of ASTM F 1667.

R317.3.1 Fasteners for preservative-treated wood.
Fasteners, including nuts and washers, for preservative-treated nood shall be of hot-dipped, zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Staples shall be of stainless steel. Coating types and weights for connectors in contact with preservative-treated nood shall be in accordance with the connector manufacturer's recommendations. In the absence of such recommendations, a minimum of ASTM A 653 type G185 zinc-coated galvanized steel, or equivalent, shall be used.

R317.3.1 Exceptions:
1. 1/2-inch-diameter (12.7 mm) or greater steel bolts.
2. Fasteners other than nails, staples and timber rivets shall be permitted to be of mechanically deposited zinc-coated steel with coating neights in accordance with ASTM B 695, Class 55 minimum.
3. Plain carbon steel fasteners in SBX/DOT and zinc borate preservative-treated nood in an interior, dry environment shall be permitted.

R317.3.2 Fastenings for wood foundations.
Fastenings, including nuts and washers, for wood foundations shall be as required in AFPA PWF.

R317.3.3 Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations.
Fasteners, including nuts and washers, for fire-retardant-treated wood used in exterior applications or wet or damp locations shall be of hot-dipped, zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, staples and timber rivets shall be permitted to be of mechanically deposited zinc-coated steel with coating neights in accordance with ASTM B 695, Class 55 minimum.

R317.3.4 Fasteners for fire-retardant-treated wood used in interior applications.
Fasteners, including nuts and washers, for fire-retardant-treated wood used in interior locations shall be in accordance with the manufacturer's recommendations. In the absence of the manufacturer's recommendations, Section R317.3.3 shall apply.

R317.4 Plastic composites.
Plastic composite exterior deck boards, stair treads, guards and handrails containing wood, cellulosic or other biodegradable materials shall comply with the requirements of Section R507.3.

SECTION R318 PROTECTION AGAINST SUBTERRANEAN TERMITES

R318.1 Subterranean termite control methods.
In areas subject to damage from termites as indicated by Table R301.2(1), methods of protection shall be one, or a combination, of the following methods:
1. Chemical termiticide treatment in accordance with Section R318.2.
2. Termite baiting system installed and maintained in accordance with the label.
3. Pressure-preservative-treated wood in accordance with the provisions of Section R317.1.

R318.1 Subterranean termite control methods. (CONTINUED)
4. Naturally durable termite-resistant wood.
5. Physical barriers in accordance with Section R318.3 and used in locations as specified in Section R317.1.
6. Cold-formed steel framing in accordance with Sections R505.2.1 and R603.2.1.

R318.1.1 Quality mark.
Lumber and plywood required to be pressure-preservative treated in accordance with Section R318.1 shall bear the quality mark of an approved inspection agency that maintains continuing supervision, testing and inspection over the quality of the product and that has been approved by an accreditation body that complies with the requirements of the American Lumber Standard Committee treated nood program.

R318.1.2 Field treatment.
Field-cut ends, notches and drilled holes of pressure-preservative-treated nood shall be retreated in the field in accordance with AWPA M4.

R318.2 Chemical termiticide treatment.
Chemical termiticide treatment shall include soil treatment or field-applied nood treatment. The concentration, rate of application and method of treatment of the chemical termiticide shall be in strict accordance with the termiticide label.

R318.3 Barriers.
Approved physical barriers, such as metal or plastic sheeting or collars specifically designed for termite prevention, shall be installed in a manner to prevent termites from entering the structure. Shields placed on top of an exterior foundation nall are permitted to be used only if in combination with another method of protection.

R318.4 Foam plastic protection. In areas where the probability of termite infestation is very heavy as indicated in Figure R301.2(6), extruded and expanded polystyrene, polyisocyanurate and other foam plastics shall not be installed on the exterior face or under interior or exterior foundation walls or slab foundations located below grade. The clearance between foam plastics installed above grade and exposed earth shall be not less than 6 inches (152 mm).
Exceptions:
1. Buildings where the structural members of walls, floors, ceilings and roofs are entirely of noncombustible materials or pressure-preservative-treated nood.
2. Where in addition to the requirements of Section R318.1, an approved method of protecting the foam plastic and structure from subterranean termite damage is used.
3. On the interior side of basement walls.

R507.2 Wood materials. Wood materials shall be No. 2 grade or better lumber, preservative-treated in accordance with Section R317, or approved, naturally durable lumber, and termite protected where required in accordance with Section R318. Where design in accordance with Section R301 is provided, wood structural members shall be
designed using the net section factor defined in AWC NDS. Cuts, notches and drilled holes of preservativetreated nood members shall be treated in accordance with Section R317.1.1. All preservative-treated nood products in contact with the ground shall be labeled for such usage.

R507.2.2 Plastic composite deck boards, stair treads, guards, or handrails. Plastic composite exterior deck boards, stair treads, guards and handrails shall comply with the requirements of ASTM D7032 and this section.

R507.2.2.1 Labeling. Plastic composite deck boards and stair treads, or their packaging, shall bear a label that indicates compliance with ASTM D7032 and includes the allowable 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
with ASTM D7032 and includes the maximum allowable span determined in accordance with ASTM D7032.

R507.2.2.2 Flame spread index. Plastic composite deck boards, stair treads, guards and handrails shall exhibit a flame spread index not exceeding 200 when tested in accordance with ASTM E84 or UL 723 with the test specimen remaining in place during the test.
Exception: Plastic composites determined to be noncombustible.

R402.2.4 Rooftop-mounted photovoltaic panel systems.
Rooftop-mounted photovoltaic panel systems installed on or above the roof covering shall be tested, listed and identified with a fire classification in accordance with UL 1703 and UL 2703. Class A, B or C photovoltaic panel systems and modules 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.

R905.1.2 Ice barriers. In areas where there has been a history of ice forming along the eaves causing a backup of nater as designated in Table R301.2(1), an ice barrier shall be installed for asphalt shingles, metal roof shingles, mineral-surfaced roll roofing, slate and slate-type shingles, wood shingles and wood shakes. The ice barrier shall consist of not fewer than two layers of underlayment cemented together, or a self-adhering polymer-modified bitumensheet shall be used in place of normal underlayment and extend from the lowest edges of all roof surfaces to a point not less than 24 inches (610 mm) inside the exterior wall line of the building. On roofs with slope equal to or greater than eight units vertical in 12 units horizontal (67-percent slope), the ice barrier shall also be applied not less than 36 inches (914 mm) measured along the roof slope from the eave edge of the building.
Exception: Detached accessory structures not containing conditioned floor area.

M1305.1 Appliance access for inspection service, repair and replacement. Appliances shall be located to allow for access for inspection, service, repair and replacement without removing permanent construction, other appliances, or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. A level working space not less than 30 inches deep and 30 inches wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance.

M1503.2 Domestic cooking exhaust. Where domestic cooking exhaust equipment is provided, it shall comply with one of the following:
1. The fan for overhead range hoods and downdraft exhaust equipment not integral with the cooking appliance shall be listed and labeled in accordance with UL 507.
2. Overhead range hoods and downdraft exhaust equipment with integral fans shall comply with UL 507.
3. Domestic cooking appliances with integral downdraft exhaust equipment shall be listed and labeled in accordance with ANSI Z21.1 or UL 858.
4. Microwave ovens with integral exhaust for installation over the cooking surface shall be listed and labeled in accordance with UL 923.

M1503.3 Exhaust discharge. Domestic cooking exhaust equipment shall discharge to the outdoors through a duct. The duct shall have a smooth interior surface, shall be airtight, shall be equipped with a backdraft damper and shall be independent of all other exhaust systems. Ducts serving domestic cooking exhaust equipment shall not terminate in an attic or crawl space or areas inside the building.
Exception: Where installed in accordance with the manufacturer's instructions, and where mechanical or natural ventilation is otherwise provided, listed and labeled ductless range hoods shall not be required to discharge to the outdoors.

DATE:	ISSUE NO.	DESCRIPTION
12/16/24	2	FOR FILING
06/26/24	1	FOR FILING

CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF WORK. NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.
CONTRACTOR TO CHECK LUMBER TO ENSURE THAT THE CROWN FACES UP BEFORE INSTALLATION.

STATE OF NEW YORK — NORMAN C. LOK — 089525 — LICENSED PROFESSIONAL ENGINEER
12/16/24

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TEL: (631)755-7920

PROJECT TITLE:

BUSCHMAN RESIDENCE
229 6TH STREET
GREENPORT, N.Y. 11944

DRAWING TITLE:

PROPOSED
REAR ADDITION

DRAWN BY:	N.F.
CHECKED BY:	N.C.L.
SCALE:	AS SHOWN
DATE:	06/06/24
DRAWING NUMBER:	A-2
PROJECT NUMBER:	24-132

FASTENING SCHEDULE PER TABLE R602.3(1)

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER a,b,c	SPACING AND LOCATION
	ROOF		
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2.5" X 0.113") or 3-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	TOE NAIL
2	CEILING JOISTS TO TOP PLATE	4-8d BOX (2.5" X 0.113") or 3-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10d BOX (3" X 0.128") or 3-16d COMMON (3.5" X 0.162") or 4-3" X 0.131" NAILS	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1.25" X 20 GA. RIDGE STRAP TO RAFTER	4-10d BOX (3" X 0.128") or 3-10d COMMON (3" X 0.148") or 4-3" X 0.131" NAILS	FACE NAIL EACH RAFTER
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX (3.5" X 0.135") or 3-10d COMMON (3" X 0.148") or 4-10d BOX (3" X 0.128") or 4-3" X 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER or TRUSS, i
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16d BOX (3.5" X 0.135") or 3-10d COMMON (3" X 0.148") or 4-10d BOX (3" X 0.128") or 4-3" X 0.131" NAILS	TOE NAIL
		3-16d BOX (3.5" X 0.135") or 2-16d COMMON (3.5" X 0.162") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	END NAIL
	WALL		
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3.5" X 0.162")	24" O.C. FACE NAIL
		10d BOX (3" X 0.128") or 3" X 0.131" NAILS	16" O.C. FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3.5" X 0.135") or 3" X 0.131" NAILS	12" O.C. FACE NAIL
		16d COMMON (3.5" X 0.162")	16" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 0.5" SPACER)	16d COMMON (3.5" X 0.162")	16" O.C. EACH EDGE FACE NAIL
		16d BOX (3.5" X 0.135")	12" O.C. EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD	5-8d BOX (2.5" X 0.113") or 4-8d COMMON (2.5" X 0.131") or 4-10d BOX (3" X 0.128")	TOE NAIL
12	TOP PLATE TO TOP PLATE	16d COMMON (3.5" X 0.162")	16" O.C. FACE NAIL
		10d BOX (3" X 0.128") or 3" X 0.131" NAILS	12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE	12-16d BOX (3.5" X 0.135") or 8-16d COMMON (3.5" X 0.162") or 12-10d BOX (3" X 0.128") or 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3.5" X 0.162")	16" O.C. FACE NAIL
		16d BOX (3.5" X 0.135") or 3" X 0.131" NAILS	12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3.5" X 0.135") or 2-16d COMMON (3.5" X 0.162") or 4-3" X 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2.5" X 0.113") or 3-16d BOX (3.5" X 0.135") or 4-8d COMMON (2.5" X 0.131") or 4-10d BOX (3" X 0.128") or 4-3" X 0.131" NAILS	TOE NAIL
		3-16d BOX (3.5" X 0.135") or 2-16d COMMON (3.5" X 0.162") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3.5" X 0.162") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2.5" X 0.113") or 2-8d COMMON (2.5" X 0.131") or 2-10d BOX (3" X 0.128") or 2 STAPLES 1.75"	FACE NAIL
19	1" X6" SHEATHING TO EACH BEARING	3-8d BOX (2.5" X 0.113") or 2-8d COMMON (2.5" X 0.131") or 2-10d BOX (3" X 0.128") or 2 STAPLES, 1" CROWN, 16 GA., 1.75" LONG	FACE NAIL
20	1"X8" AND WIDER SHEATHING TO EACH BEARING	3-8d BOX (2.5" X 0.113") or 3-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 3 STAPLES, 1" CROWN, 16 GA., 1.75" LONG	FACE NAIL
		WIDER THAN 1"X8" 4-8d BOX (2.5" X 0.113") or 3-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 4 STAPLES, 1" CROWN, 16 GA., 1.75" LONG	
	FLOOR		
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2.5" X 0.113") or 3-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	TOE NAIL
22	JOIST TO SILL, TOP PLATE OR GIRDER	8d BOX (2.5" X 0.113")	4" O.C. TOE NAIL
		8d COMMON (2.5" X 0.131") or 10d BOX (3" X 0.128") or 3" X 0.131" NAILS	6" O.C. TOE NAIL
23	1"X6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2.5" X 0.113") or 2-8d COMMON (2.5" X 0.131") or 3-10d BOX (3" X 0.128") or 2 STAPLES, 1" CROWN, 16 GA., 1.75" LONG	FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3.5" X 0.135") or 2-16d COMMON (3.5" X 0.162")	BLIND AND FACE NAIL
25	2" PLANKS (PLANK & BEAM -- FLOOR & ROOF)	3-16d BOX (3.5" X 0.135") or 2-16d COMMON (3.5" X 0.162")	AT EACH BEARING FACE NAIL
26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3.5" X 0.162") or 4-10d BOX (3" X 0.128") or 4-3" X 0.131" NAILS or 4-3" X 14 GA. STAPLES, 7/16" CROWN	END NAIL
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20d COMMON (4" X 0.192") or	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM STAGGERED
		10d BOX (3" X 0.128") or 3" X 0.131" NAILS	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
		AND: 2-20d COMMON (4" X 0.192") or 3-10d BOX (3" X 0.128") or 3-3" X 0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3.5" X 0.135") or 3-16d COMMON (3.5" X 0.162") or 4-10d BOX (3" X 0.128") or 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL
29	BRIDGING OR BLOCKING TO JOIST	2-10d BOX (3" X 0.128") or 2-8d COMMON (2.5" X 0.131") OR 2-3" X 0.131" NAILS	EACH END, TOE NAIL

FASTENING SCHEDULE PER TABLE R602.3(1) --CONTINUED

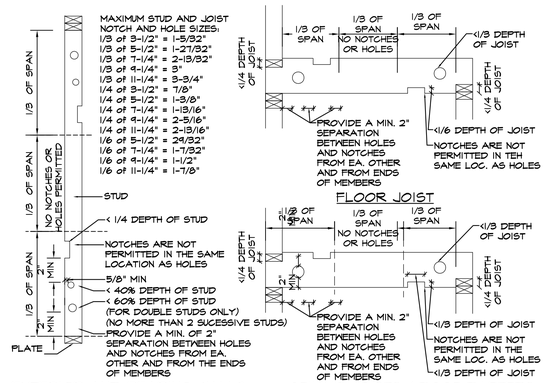
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER a,b,c	SPACING OF FASTENERS: EDGES (INCHES)h	SPACING OF FASTENERS: INTERMEDIATE SUPPORTS c,e (INCHES)
	WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [SEE TABLE R602.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING]			
30	3/8" - 1/2"	6d COMMON (2" X 0.113") SUBFLOOR, WALL) i 8d COMMON (2.5" X 0.131") (ROOF), or RSRS-01 BOX (2.375" X 0.113") (ROOF) j	6	12 f
31	19/32" - 1"	8d COMMON (2.5" X 0.131") or RSRS-01 BOX (2.375" X 0.113") (ROOF) j	6	12 f
32	1-1/8" - 1-1/4"	10d COMMON (3" X 0.148") or 8d (2.5" X 0.131") DEFORMED NAIL	6	12
	OTHER WALL SHEATHING g			
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1.5" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, or 1.25" LONG 16 GA. STAPLE WITH 7/16" or 1" CROWN	3	6
34	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1.75" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, or 1.5" LONG 16 GA. STAPLE WITH 7/16" or 1" CROWN	3	6
35	1/2" GYPSUM SHEATHING d	1.5" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1.5" LONG; 1.25" SCREWS, TYPE W or S	7	7
36	5/8" GYPSUM SHEATHING d	1.75" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1.625" LONG; 1.625" SCREWS, TYPE W or S	7	7
	WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
37	3/4" AND LESS	6d DEFORMED (2" X 0.120") NAIL or 8d COMMON (2.5" X 0.131") NAIL	6	12
38	7/8" - 1"	8d COMMON (2.5" X 0.131") NAIL or 8d DEFORMED (2.5" X 0.120") NAIL	6	12
39	1-1/8" - 1-1/4"	10d COMMON (3" X 0.148") NAIL or 8d DEFORMED (2.5" X 0.120") NAIL	6	12

a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.
b. Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.
c. Nails shall be spaced at not more than 6 inches on center at supports where spans are 48 inches or greater.
d. Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically.
e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).
f. For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 6 inches on center where the ultimate design wind speed is less than 130 mph and shall be spaced 4 inches on center where the ultimate design wind speed is 130 mph or greater but less than 140 mph.
g. Gypsum sheathing shall conform to ASTM C1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C208.
h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.
i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.
j. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

ALLOWABLE SPANS FOR LINTELS SUPPORTING MASONRY VENEER (a,c,d)

SIZE OF STEEL ANGLE (a,c,d) (INCHES)	NO STORY ABOVE	ONE STORY ABOVE	TWO STORIES ABOVE
3 X 3 X 1/4	6'-0"	4'-6"	3'-0"
4 X 3 X 1/4	8'-0"	6'-0"	4'-6"
5 X 3-1/2 X 5/16	10'-0"	8'-0"	6'-0"
6 X 3-1/2 X 5/16	14'-0"	9'-6"	7'-0"
(2) 6 X 3-1/2 X 5/16	20'-0"	12'-0"	9'-6"

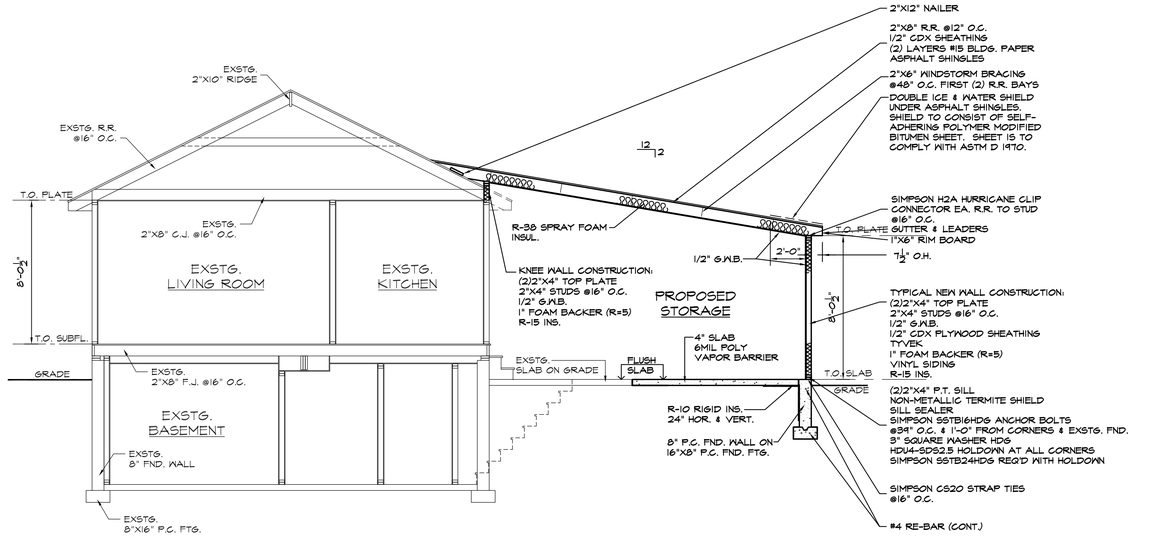
a. Long leg of the angle shall be placed in a vertical position.
c. Steel members indicated are adequate typical examples; other steel members meeting structural design requirements shall be permitted to be used.
d. Steel angle shall span opening.



NOTCHING AND DRILLING FOR WOOD FRAME MEMBERS

N.T.S.

ATTIC INSULATION NOTES:
1. CEILING INSULATION SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2. BLOWN INSULATION SHALL BE MARKED EVERY 300 S.F.
3. WHERE ATTIC INSULATION IS INSTALLED AT THE RAFTERS, GABLE END WALLS SHALL BE INSULATED TO THE BOTTOM OF RAFTERS, WITH BATT AND RIGID INSULATION TO MATCH WALLS BELOW, TO FORM A CLOSED THERMAL ENVELOPE.
4. 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.
5. WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING. IN ADDITION TO THE AIR-PERMEABLE INSULATION INSTALLED DIRECTLY BELOW THE STRUCTURAL SHEATHING, RIGID BOARD INSULATION (R-15) SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH TABLE R806.5 FOR CONDENSATION CONTROL.
6. WHERE BOTH AIR-IMPERMEABLE AND AIRPERMEABLE INSULATION ARE PROVIDED, THE AIR-IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING. THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.
7. WHERE PREFORMED INSULATION BOARD IS USED AS THE AIR-IMPERMEABLE INSULATION LAYER, IT SHALL BE SEALED AT THE PERIMETER OF EACH INDIVIDUAL SHEET INTERIOR SURFACE TO FORM A CONTINUOUS LAYER.



SECTION B

SCALE 1/4" = 1'-0"

LEGEND

	NEW FOUNDATION
	NEW PARTITION
	EXIST. PARTITION
	DEMOLITION PARTITION / FOUND.
SD	NEW SMOKE DETECTOR HARDWIRED WITH BATTERY BACKUP
CO/SD	NEW COMBINATION OR SEPARATE SMOKE / CARBON MONOXIDE DETECTORS) HARDWIRED WITH BATTERY BACKUP
H	NEW HEAT DETECTOR HARDWIRED WITH BATTERY BACKUP
L.B. WALL	LOAD BEARING WALL
T.B.M.	TO BE MAINTAINED
	POST TO BELOW
	POST FROM ABOVE
P.T.	PRESSURE TREATED
HDG	DOUBLE HOT DIPPED GALVANIZED
V.I.F.	VERIFY IN FIELD, IF DIFFERENT FROM PLAN CONTACT DESIGN PROFESSIONAL
P.C.	POURED CONCRETE
XXX	JOIST HANGER W/ REQ'D CAPACITY IN LBS.
TECO	JOIST HANGER W/ 600 LB. CAPACITY (MINIMUM)
DIRECT REPLACEMENT	REPLACEMENT OF EXISTING CONSTRUCTION, WITH LIKE KIND AND QUALITY, WITHIN SAME STRUCTURAL OPENING
O.T.P.	OWNER TO PROVIDE
TP	TEMPERED GLASS

DATE:	ISSUE NO.	DESCRIPTION
12/16/24	2	FOR FILING
06/26/24	1	FOR FILING

CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF WORK. NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

CONTRACTOR TO CHECK ALL LUMBER TO ENSURE THAT THE CROWN FACES UP BEFORE INSTALLATION.

STATE OF NEW YORK NORMAN C. LOK 089525 LICENSED PROFESSIONAL ENGINEER
12/16/24

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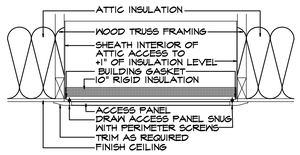
NYS LICENSE NUMBER 089525
707 ROUTE 110 Suite A-1
FARMINGDALE, NY 11735
TEL: (631)755-7920

PROJECT TITLE:
BUSCHMAN RESIDENCE
229 6TH STREET
GREENPORT, N.Y. 11944

DRAWING TITLE:
PROPOSED REAR ADDITION

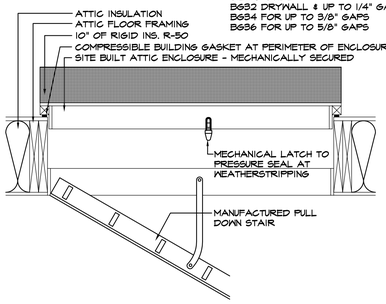
DRAWN BY:	N.F.
CHECKED BY:	N.C.L.
SCALE:	AS SHOWN
DATE:	06/06/24
DRAWING NUMBER:	A-3
PROJECT NUMBER:	24-132



ATTIC HATCH AIR SEALING DETAIL

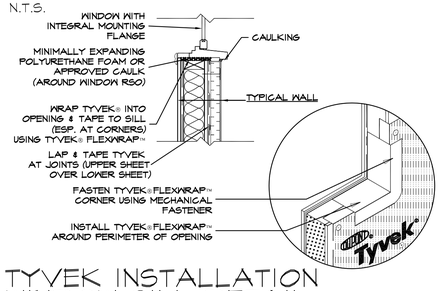
N.T.S.

BUILDING GASKET BY CONSERVATION TECHNOLOGY SIZING GUIDE
BG32 DRYWALL & UP TO 1/4" GAPS
BG34 FOR UP TO 3/8" GAPS
BG36 FOR UP TO 5/8" GAPS



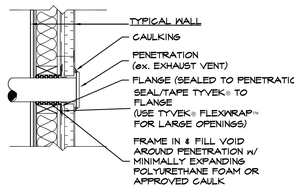
PULL DOWN ATTIC STAIR AIR SEALING DETAIL

N.T.S.



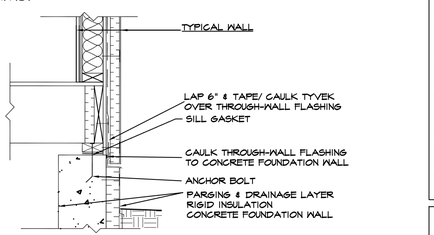
TYVEK INSTALLATION WINDOW SILL DETAIL

N.T.S.



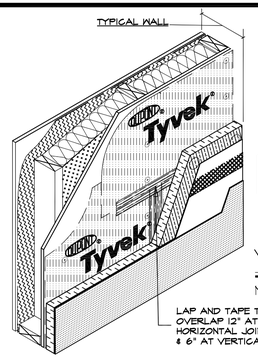
TYVEK INSTALLATION WALL PENETRATION DETAIL

N.T.S.



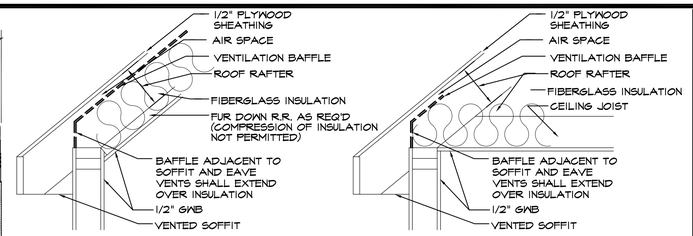
TYVEK INSTALLATION BASE OF WALL DETAIL

N.T.S.



TYVEK INSTALLATION TYPICAL WALL DETAIL

N.T.S.



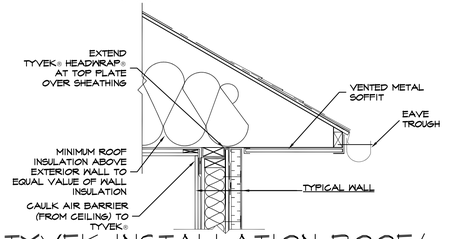
VENTILATION BAFFLE

WHEN JOISTS ARE NOT AT TOP PLATE

N.T.S.

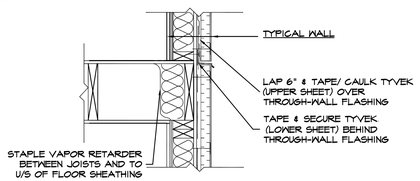
VENTILATION BAFFLE

N.T.S.



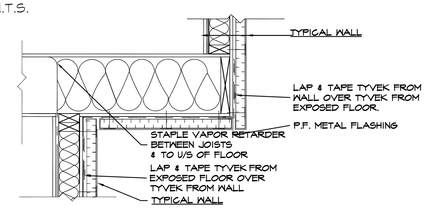
TYVEK INSTALLATION ROOF/ WALL INTERFACE DETAIL

N.T.S.



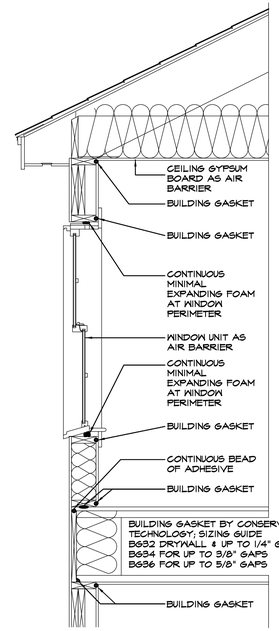
TYVEK INSTALLATION FLOOR/ WALL INTERFACE DETAIL

N.T.S.



TYVEK INSTALLATION CANTILEVERED FLOOR DETAIL

N.T.S.



AIR SEALING DETAIL

N.T.S.

TYVEK NOTES:
1. SEAL ALL TYVEK JOINTS & PENETRATIONS WITH APPROVED TAPE. (ex. DUPONT CONTRACTOR TAPE)
2. FASTEN TYVEK WITH LARGE PLASTIC WASHER HEADS
3. LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.
4. INSTALL EIFS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS

HEATING EQUIPMENT ENCLOSURE NOTES:
Rooms containing fuel-burning appliances where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room that is isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements indicated on energy analysis table or supplied reschack, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated with an R-value of not less than 3. The combustion air duct shall be insulated where it passes through conditioned space to an R-value of not less than R-8.

WATER, SOIL OR WASTE PIPES INSTALLED IN EXTERIOR WALLS, ATTICS OR CRAWL SPACES SHALL BE PROTECTED FROM FREEZING TEMPERATURES BY PIPE INSULATION WITH A MINIMUM R-VALUE OF 5.

HOT WATER PIPES TO BE INSULATED WITH R-3 (MIN.) RIGID PIPE INSULATION.

TABLE R402.4.1.1 AIR BARRIER AND INSULATION INSTALLATION COMPONENT AIR BARRIER CRITERIA INSULATION INSTALLATION CRITERIA

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
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.
2 Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be 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.
3 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.
4 Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
5 Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
6 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.
7 Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawl space walls.
8 Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
9 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.
10 Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
11 Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished space.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
12 Plumbing and wiring		In exterior walls, batt insulation shall be cut neatly to fit around wiring and plumbing or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
13 Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the shower or tub	Exterior walls adjacent to showers and tubs shall be insulated.
14 Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	
15 HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	

MANDATORY ENERGY REQUIREMENTS PER ECCCNYS 2020

CODE SECTION	REQUIREMENT
N1101.14	A permanent certificate shall be completed by the builder or other approved party and posted on a wall in the space where the furnace is located, a utility room or an approved location inside the building. Where located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall indicate the predominant R-values of insulation installed in or on ceilings, roofs, walls, foundation components such as slabs, basement walls, crawl space walls and floors, and ducts outside conditioned spaces; U factors of fenestration and the solar heat gain coefficient (SHGC) of fenestration, and the results from any required duct system and building envelope air leakage testing performed on the building. Where there is more than one value for each component, the certificate shall indicate the value covering the largest area. The certificate shall indicate the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall indicate "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be indicated for gas-fired unvented room heaters, electric furnaces and electric baseboard heaters.
N1103.1	AT LEAST ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM.
N1103.2	HOT WATER BOILERS THAT SUPPLY HEAT TO THE BUILDING THROUGH ONE OR TWO PIPE HEATING SYSTEMS SHALL HAVE AN OUTDOOR SETBACK CONTROL THAT LOWERS THE BOILER WATER TEMPERATURE BASED ON THE OUTDOOR TEMPERATURE.
N1103.3	DUCTS AND AIR HANDLERS SHALL BE IN ACCORDANCE WITH SECTIONS N1103.3.1 THROUGH N1103.3.5
N1103.3.2	DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH EITHER THE INTERNATIONAL MECHANICAL CODE OR SECTION M1601.4.1 OF THIS CODE, AS APPLICABLE.
N1103.3.3	Ducts shall be pressure tested to determine air leakage by one of the following methods. 1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) acrossthe system, including the manufacturer's air handler enclosure if installed at the time of the test. Registers shall be taped or otherwise sealed during the test. 2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. Exceptions: 1. A duct air-leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. 2. A duct air-leakage test shall not be required for ducts serving heat or energy recovery ventilators that are not integrated with ducts serving heating or cooling systems. A written report of the results of the test shall be signed by the party conducting the test and provided to the building official.
N1103.3.5	Building framing cavities shall not be used as ducts or plenums.
N1103.5.1	Heated water circulation systems shall be in accordance with Section N1103.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section N1103.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
N1103.5.1.1	Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosyphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
N1103.5.1.2	Electric heat trace systems shall comply with IEEE 515.1 or UL515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
N1103.6	THE BUILDING SHALL BE PROVIDED WITH VENTILATION THAT MEETS THE REQUIREMENTS OF SECTION M1507 OF THIS CODE OR THE INTERNATIONAL MECHANICAL CODE, AS APPLICABLE, OR WITH OTHER APPROVED MEANS OF VENTILATION. OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.
N1104.1	NOT LESS THAN 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS OR NOT LESS THAN 90 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS.
N1109.1.4	NEW LIGHTING SYSTEMS THAT ARE PART OF THE ALTERATION SHALL COMPLY WITH SECTION 1104.1. EXCEPTION: ALTERATIONS THAT REPLACE LESS THAN 50 PERCENT OF THE LUMINAIRES IN A SPACE, PROVIDED THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.

MANDATORY ENERGY REQUIREMENTS (CONTINUED)

CODE SECTION	REQUIREMENT
N1102.4.1.2	THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING FIVE AIR CHANGES PER HOUR IN CLIMATE ZONES 1 AND 2, AND THREE AIR CHANGES PER HOUR IN CLIMATE ZONES 3 THROUGH 8. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E 779 OR ASTM E 1827 AND REPORTED AT A PRESSURE OD 0.2 INCHES W.G. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. DURING TESTING: 1. EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STOVE DOORS SHALL BE CLOSED BUT NOT SEALED, BEYOND THE INTENDED WEATHER-STRIPPING OR OTHER INFILTRATION CONTROL MEASURES. 2. DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL MEASURES. 3. INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST SHALL BE OPEN. 4. EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED. 5. HEATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF. 6. SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE FULLY OPEN.
N1103.6	N1103.6 The building shall be provided with ventilation that complies with the requirements of Section M1505 or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
N1103.6.1	Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements of Table N1103.6.1. Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide wholehouse mechanical ventilation, the air handler shall be powered by an electronically commutated motor.
N1103.7	Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.
N1103.8	Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Energy Conservation Code of New York–Commercial Provisions instead of Section N1103.
N1103.9	Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is greater than 50°F (10°C) and precipitation is not falling, and an automatic or manual control that will allow shutoff when the outdoor temperature is greater than 40°F (4.8°C).
N1103.10	The energy consumption of pools and permanent spas shall be in accordance with Sections N1103.10.1 through N1103.10.3.
N1103.10.1	The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
N1103.10.2	Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section. Exceptions: 1. Where public health standards require 24-hour pump operation. 2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
N1103.10.3	Outdoor heated pools and outdoor heated permanent spas shall be equipped with a vapor-retardant pool cover or other approved vaporretardant means. Outdoor heated pools and outdoor heated permanent spas heated to more than 90°F (32°C) shall have a pool cover with a minimum insulation value of R-12. Exception: Where more than 60 percent of the energy for heating is from site-recovered energy or solar energy source, covers or other vapor-retardant means shall not be required N1103.11 (R403.11) Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP 14.
N1104.1.1	Fuel gas lighting systems shall not have continuously burning pilot lights.

ENERGY NOTES:
1. All construction shall comply with the 2020 Energy Conservation Construction Code. The authority having jurisdiction shall be permitted to determine an energy efficiency program to exceed the energy efficiency required by this code.
2. A permanent certificate shall be completed by the builder and posted on a wall in the space where the furnace is located. Certificate shall comply with RCNYS N1101.14
3. Attic or crawl space access shall be weather-stripped and insulated to a level equivalent to the insulation on the surrounding surfaces
4. Installation- the components of the building thermal envelope shall be installed in accordance with the criteria listed in the table 402.1.1 Where required by the code official, an approved third party shall inspect all components and verify compliance.
5. Testing- Building or dwelling unit shall be tested and verified having less than or equal to 3 ACH50 or 0.44 A, 5, 6A. Testing shall be conducted by an approved third party.
6. Ducts- Supply and return ducts in attics shall be insulated to a minimum of R-8 @ 3" or greater in diameter, and R-6 @ ducts less than 3" in diameter.
6a. Duct Sealing- Ducts, air handlers, and filter boxes shall be sealed.
7. Duct Testing- Ducts shall be pressure tested to determine air leakage by an approved third party.
8. Building cavities shall not be used as ducts or plenums.
9. Mechanical system piping insulation carrying fluids > 105 F degrees or < 55 F degrees shall be insulated with R-3 minimum.
10. Mechanical Ventilation- Shall meet the requirements of the RCNYS/MCNYS
11. Equipment sizing- Per ACCA manual S, based on loads calculated per ACCA manual J as provided by a third party HERS rater.
12. Lighting- A minimum of 90% of permanently installed fixtures must have high-efficacy lamps.
13. All HVAC, Plumbing & Electrical systems shall meet the RC chapter 11 Energy Efficiency, Mechanical Code, Energy Conservation Construction Code. It shall be the responsibility of the general contractor to submit in detail the design, calculations, drawings, written statements of the mechanical, air conditioning, ventilation, heating systems, (new, existing or upgraded) stamped by a professional engineer if required by the Owner or Building Dept.
14. Additions, alterations or renovations- shall comply with ECCC 2020. Unaltered portions of the existing building is not required to comply with this code.
15. Minimum one Programmable thermostat shall be provided for each separate heating and cooling system in accordance with section N1108 Control Systems.
16. All exterior wall/floor/ceiling joists shall be air sealed and insulated in accordance with Table R402.4.1.1. Apply a fresh bead of caulk to the top and bottom plate immediately prior to installing interior gypsum wall board.

ENERGY COMPLIANCE NOTE: TO THE BEST OF MY KNOWLEDGE, BELIEF & PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH N1105 (R405) SIMULATED PERFORMANCE ALTERNATIVE OF THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS).

LEGEND

	NEW FOUNDATION
	NEW PARTITION
	EXIST. PARTITION
	DEMOLITION PARTITION / FOUND.
SD	NEW SMOKE DETECTOR HARDWIRED WITH BATTERY BACKUP
CO/SD	NEW COMBINATION OR SEPARATE SMOKE / CARBON MONOXIDE DETECTOR(S) HARDWIRED WITH BATTERY BACKUP
H	NEW HEAT DETECTOR HARDWIRED WITH BATTERY BACKUP
L.B. WALL	LOAD BEARING WALL
T.B.M.	TO BE MAINTAINED
	POST TO BELOW
	POST FROM ABOVE
P.T.	PRESSURE TREATED
HDG	DOUBLE HOT DIPPED GALVANIZED
V.I.F.	VERIFY IN FIELD, IF DIFFERENT FROM PLAN CONTACT DESIGN PROFESSIONAL
P.C.	POURED CONCRETE
XXX	JOIST HANGER W/ REQ'D CAPACITY IN LBS.
TECO	JOIST HANGER W/ 600 LB. CAPACITY (MINIMUM)
DIRECT REPLACEMENT	REPLACEMENT OF EXISTING CONSTRUCTION, WITH LIKE KIND AND QUALITY, WITHIN SAME STRUCTURAL OPENING
O.T.P.	OWNER TO PROVIDE
TP	TEMPERED GLASS

DATE:	ISSUE NO.	DESCRIPTION
12/16/24	2	FOR FILING
06/26/24	1	FOR FILING

CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF WORK. NO ALLOWANCES SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

CONTRACTOR TO CHECK LUMBER TO ENSURE THAT THE CROWN FACES UP BEFORE INSTALLATION.

STATE OF NEW YORK · NORMAN C. LOK · 089525 · LICENSED PROFESSIONAL ENGINEER · 12/16/24

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NORMAN C. LOK, P.E.
NYS LICENSE NUMBER 089525
707 ROUTE 110 Suite A-1
FARMINGDALE, NY 11735
TEL: (631)755-7920

PROJECT TITLE:

BUSCHMAN RESIDENCE
229 6TH STREET
GREENPORT, N.Y. 11944

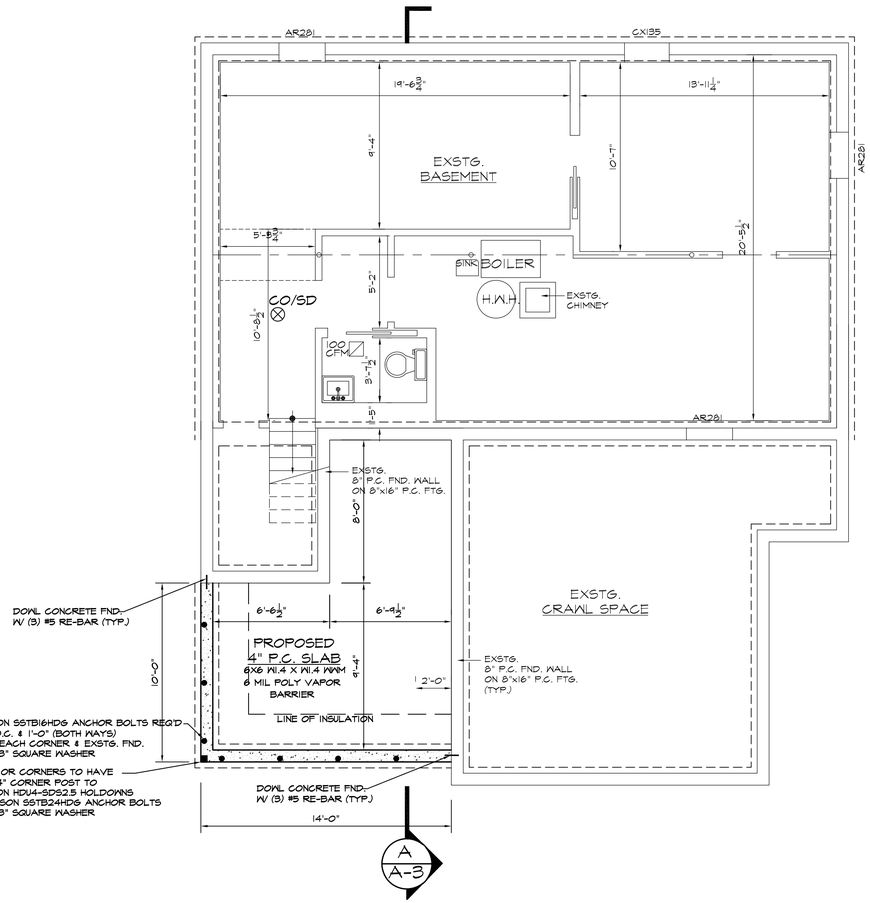
DRAWING TITLE:

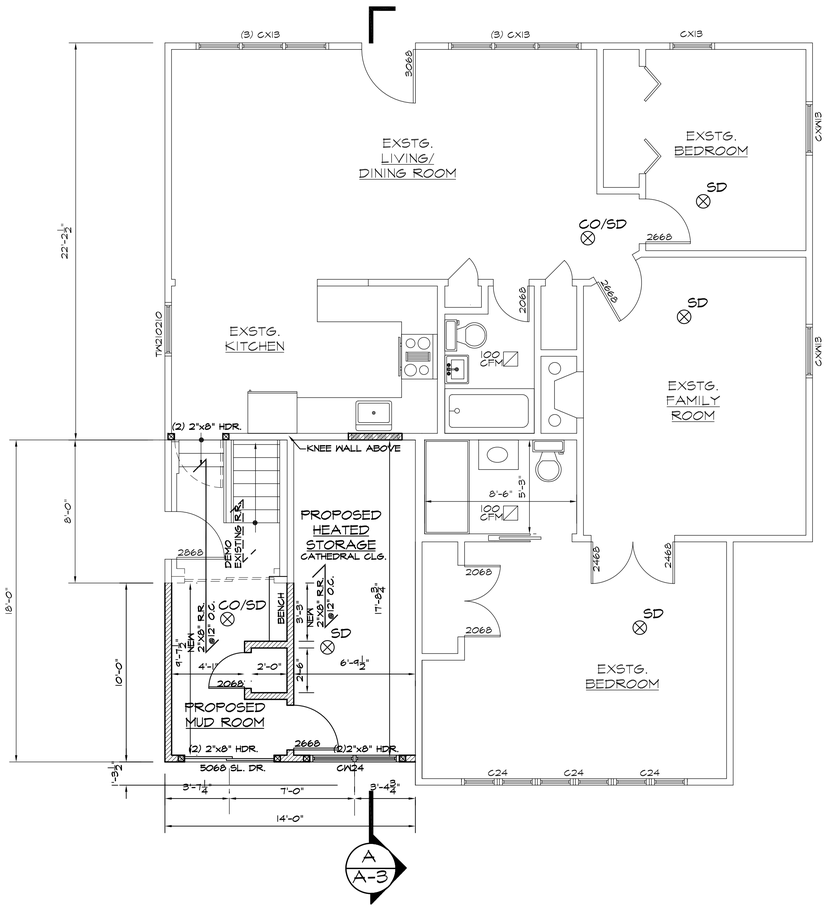
PROPOSED
REAR ADDITION

DRAWN BY:	N.F.
CHECKED BY:	N.C.L.
SCALE:	AS SHOWN
DATE:	06/06/24

DRAWING NUMBER: A-4

PROJECT NUMBER: 24-132





FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

LIGHTING & VENTILATION CALCULATIONS

ROOM NAME	ROOM S.F.	LIGHT REQ'D	LIGHT PRO.	VENT REQ'D	VENT PRO.	NOTE:
STORAGE	119.87	9.58	14.4	4.79	13.1	CODE COMPLIANT
LIVING/DINING/KITCHEN	432	34.56	41.02	17.28	36.18	CODE COMPLIANT

LEGEND

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P.C.	POURED CONCRETE
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STATE OF NEW YORK
NORMAN C. LOK
088525
LICENSED
PROFESSIONAL ENGINEER
12/16/24

FLOOR JOISTS REQUIRE BRACING @4' O.C. IN TWO END BAYS.

PER R502.7 JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL DEPTH SOLID BLOCKING NOT LESS THAN 2 INCHES 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.

ALL FRAMING LUMBER TO BE DOUGLAS FIR-LARCH #2 OR BETTER.

PROVIDE ACCESS TO NEW CRAWL SPACE (MIN. SIZE - 18"X24") PER R408.4 NYS RESIDENTIAL CODE

FIRE BLOCKING & DRAFT STOPPING REQ'D PER R302.11, R302.12 & R502.2.2

MINIMUM WIDTH OF BUILT UP 2"X4" OR 2"X6" POSTS (NAILED OR BOLTED TOGETHER) TO BE GREATER THAN WIDTH OF HEADER SUPPORTED, UNLESS OTHERWISE SPECIFIED ON PLAN. ALL STEEL BEAMS AND STEEL FLITCH PLATES TO BE SUPPORTED WITH 3" DIA. SCHEDULE 40 STANDARD WEIGHT PIPE A501 OR A53 GRADE B STEEL COLUMNS (3" STL. COLUMN). 3" STL. COLUMN IS AN ACCEPTABLE REPLACEMENT FOR BUILT UP WOOD POST.

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TEL: (631)755-7920

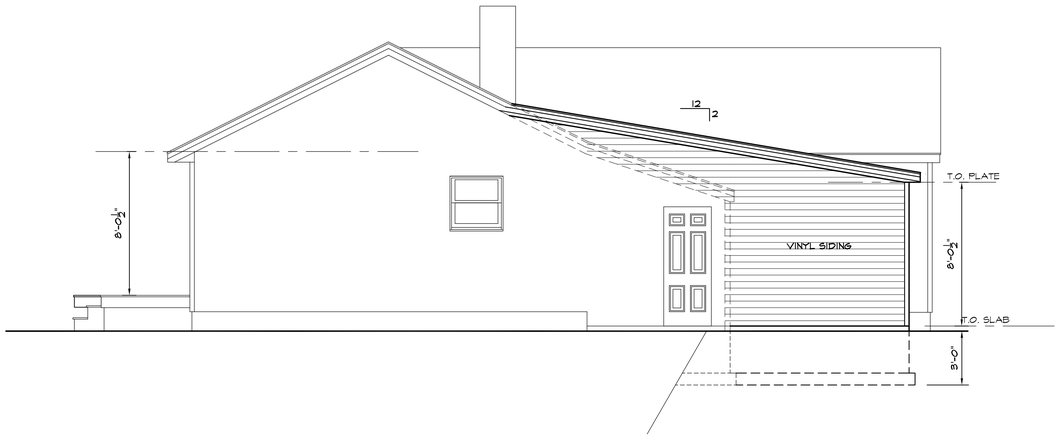
PROJECT TITLE:

BUSCHMAN
RESIDENCE
229 6TH STREET
GREENPORT, N.Y. 11944

DRAWING TITLE:

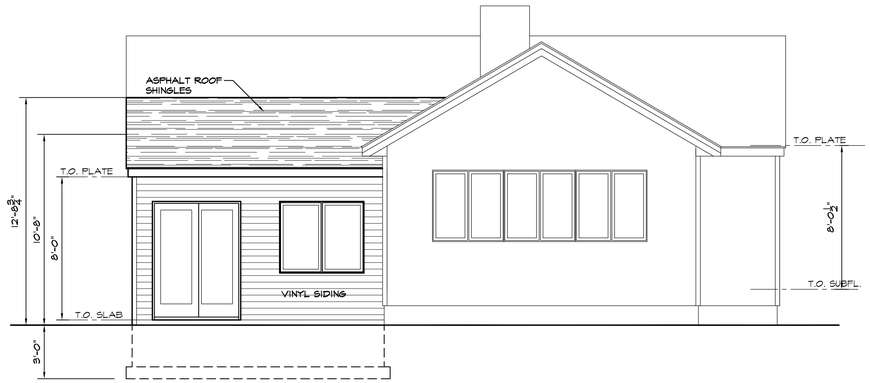
PROPOSED
REAR ADDITION

DRAWN BY: N.F.	DRAWING NUMBER: A-5
CHECKED BY: N.C.L.	
SCALE: AS SHOWN	
DATE: 06/06/24	PROJECT NUMBER: 24-132



SIDE ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

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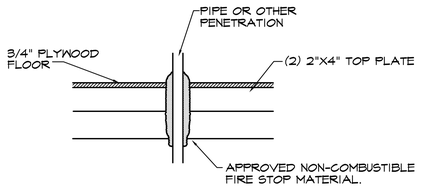
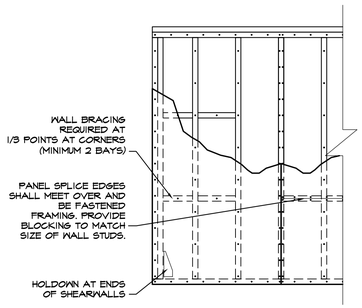


DETAIL FOR FIRE STOP



EXTERIOR WALLS TO BE SHEATHED WITH 7/16" CDX PLYWOOD STRUCTURAL PANELS (MINIMUM WOOD STRUCTURAL PANEL SPAN RATING OF 24/0) ON THE EXTERIOR ATTACHED WITH 6D COMMON NAILS (2.0" X 0.113") AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD, AND 4' X 8' X 1/2" GYPSUM WALLBOARD ON THE INTERIOR INSTALLED VERTICALLY ATTACHED WITH 1.5" GALVANIZED ROOFING NAIL, 1.5" LONG GALVANIZED STAPLES OR 1.25" TYPE W OR S SCREWS, 7" O.C. AT PANEL EDGES AND 7" O.C. IN THE FIELD. SHEATHING SHALL BE CONTINUOUS FROM THE BOTTOM PLATE TO THE UPPER TOP PLATE, WITH ALL PANEL EDGES OVER FRAMING.

EXTERIOR WALL FRAMING DETAIL

N.T.S. CS-WSP BRACED WALL FRAMING

FIRE BLOCKING & DRAFT STOPPING REQ'D PER R302.11, R302.12 & R502.2.2

PER R502.7 JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL DEPTH SOLID BLOCKING NOT LESS THAN 2 INCHES 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.

FLOOR JOISTS REQUIRE BRACING @4' O.C. IN TWO END BAYS

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	EXIST. PARTITION
	DEMOLITION PARTITION / FOUND.
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CO/SD ⊗	NEW COMBINATION OR SEPARATE SMOKE / CARBON MONOXIDE DETECTOR(S) HARDWIRED WITH BATTERY BACKUP
Ⓗ	NEW HEAT DETECTOR HARDWIRED WITH BATTERY BACKUP
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T.B.M.	TO BE MAINTAINED
■	POST TO BELOW
□	POST FROM ABOVE
P.T.	PRESSURE TREATED
HDG	DOUBLE HOT DIPPED GALVANIZED
V.I.F.	VERIFY IN FIELD, IF DIFFERENT FROM PLAN CONTACT DESIGN PROFESSIONAL
P.C.	POURED CONCRETE
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TECO	JOIST HANGER W/ 600 LB. CAPACITY (MINIMUM)
DIRECT REPLACEMENT	REPLACEMENT OF EXISTING CONSTRUCTION, WITH LIKE KIND AND QUALITY, WITHIN SAME STRUCTURAL OPENING
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STATE OF NEW YORK ★ NORMAN C. LOK ★ 089525 ★ LICENSED PROFESSIONAL ENGINEER ★ 12/16/24

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DRAWN BY:	N.F.
CHECKED BY:	N.C.L.
SCALE:	AS SHOWN
DATE:	06/06/24

DRAWING NUMBER: A-6

PROJECT NUMBER: 24-132