Generated by RES*check-Web* Software

Compliance Certificate

Project renovation/addition-199 lark st

Energy Code: **2018 IECC**
Location: **Albany, New York**
Construction Type: **Single-family**
Project Type: **Addition**
Climate Zone: **5 (6894 HDD)**
Permit Date:
Permit Number:

Construction Site:
199 lark st
albany, ny

Owner/Agent:
xiong

Designer/Contractor:
de raven design
333 kingsley rd
burnt hills, ny

Compliance: Passes using UA trade-off

Compliance: **7.4% Better Than Code** Maximum UA: **54** Your UA: **50**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling: Raised or Energy Truss	360	38.0	0.0	0.025	9
Wall: Wood Frame, 16" o.c.	504	21.0	0.0	0.057	26
Door: Solid Door (under 50% glazing)	19			0.180	3
Window: Vinyl Frame	33			0.290	10
Floor: All-Wood Joist/Truss	63	30.0	0.0	0.033	2

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2018 IECC requirements in RES*check* Version : REScheck-Web and to comply with the mandatory requirements listed in the RES*check* Inspection Checklist.

DE RAVEN DESIGN — Roxanne K Ok Hall — 8/24/20

Name - Title | Signature | Date

2018 IECC Energy Efficiency Certificate

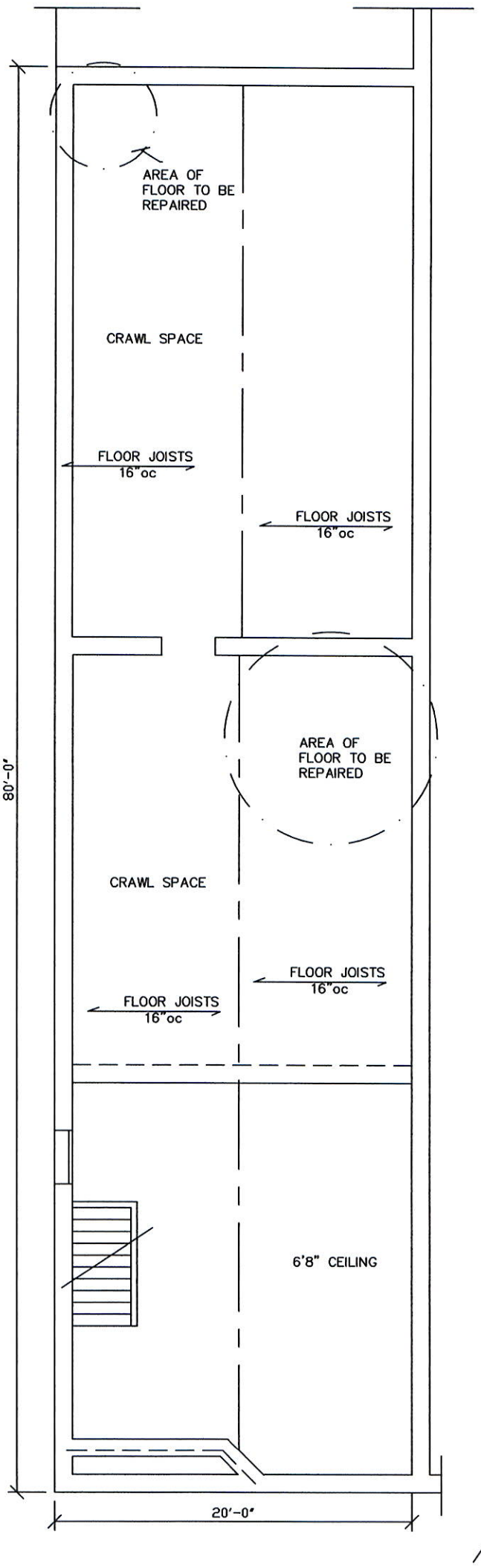
Insulation Rating	R-Value
Above-Grade Wall	21.00
Below-Grade Wall	0.00
Floor	30.00
Ceiling / Roof	38.00
Ductwork (unconditioned spaces):	_____

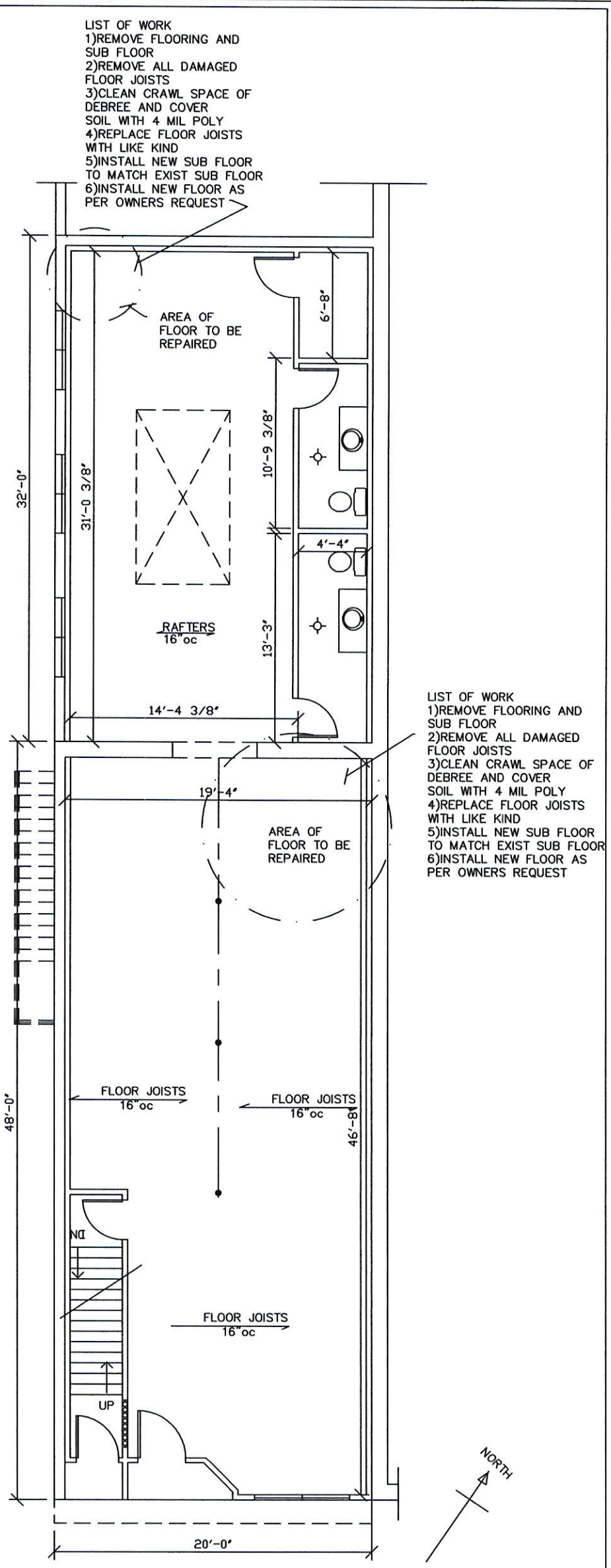
Glass & Door Rating	U-Factor	SHGC
Window	0.29	
Door	0.18	

Heating & Cooling Equipment	Efficiency
Heating System:_____	_____
Cooling System:_____	_____
Water Heater:_____	_____

Name: _____ **Date:** _____

Comments

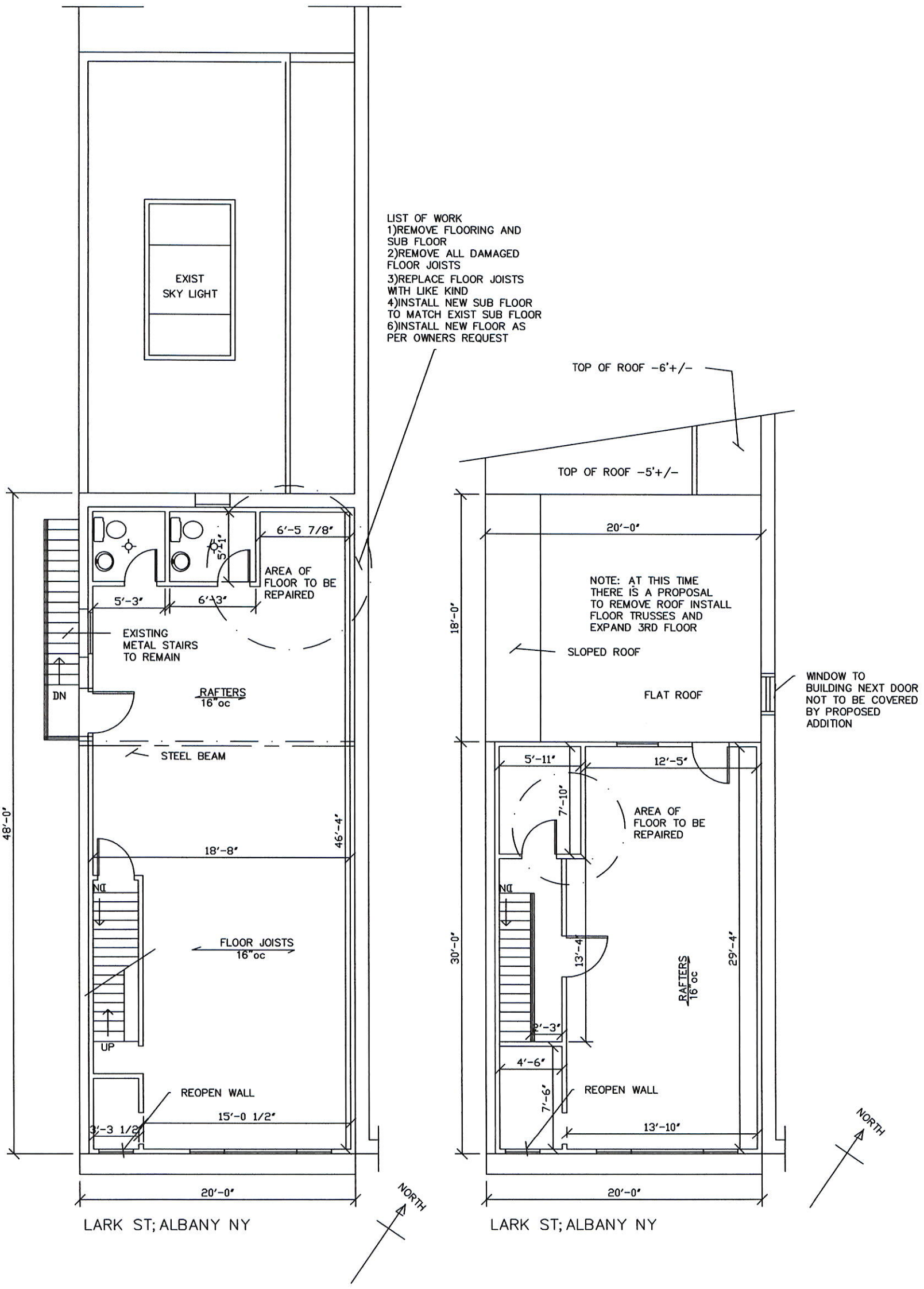




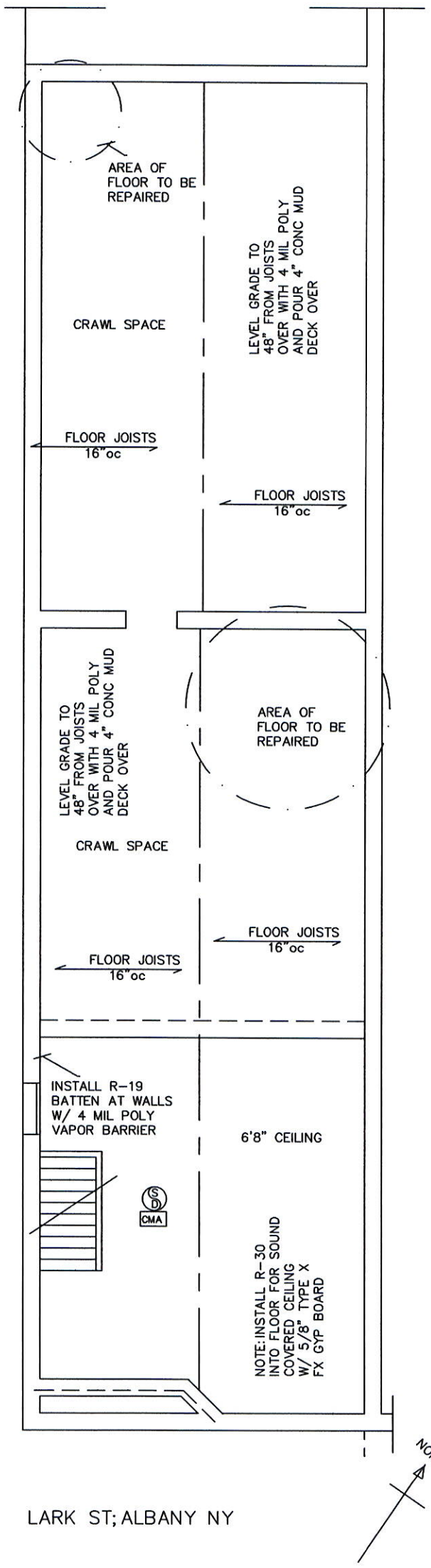
LARK ST; ALBANY NY

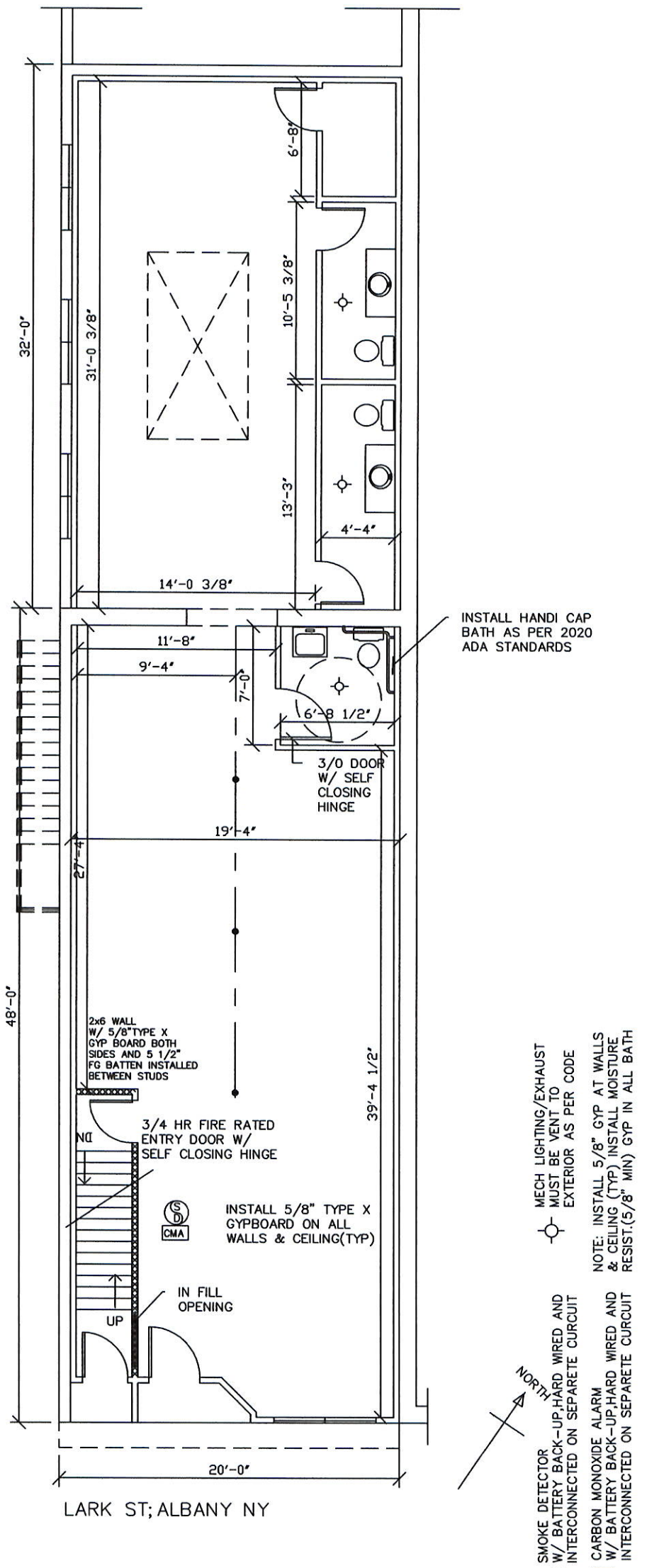
LARK ST; ALBANY NY

	INTERIOR RENOVATION 199 LARK ST; ALBANY NY			DATE SEPT 4 20 SHEET OF OWNER
FILE # JUN23LAR	DONE BY: RKO SCALE: 1/8"=1'	FLOOR PLAN - *EXIST* DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878	CONTRACTOR XIONG



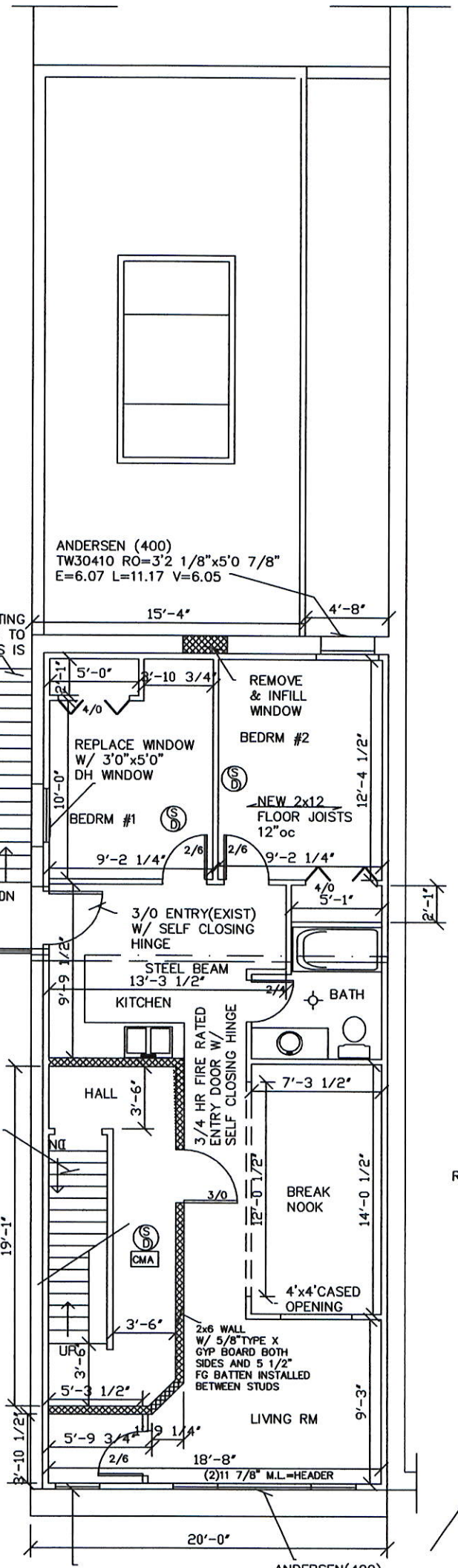
	INTERIOR RENOVATION 199 LARK ST; ALBANY NY			DATE SEPT 4 20 SHEET OF OWNER
	DONE BY: RKO	FLOOR PLAN *EXIST*		CONTRACTOR
FILE # JUN23LAR	SCALE: 1/8"=1'	DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878	XIONG

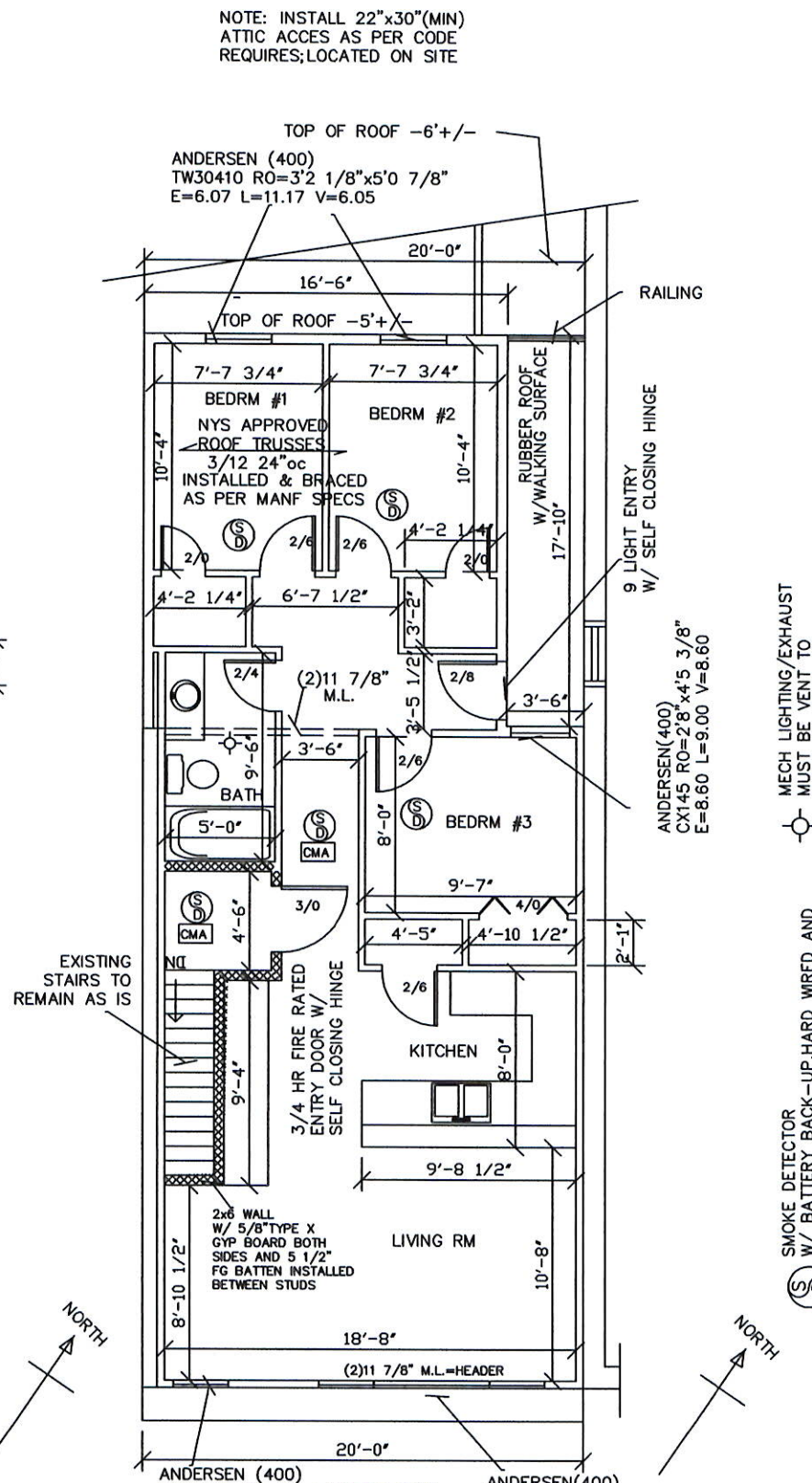




NOTE: FINAL DESIGN FOR THE HVAC SYSTEMS IS
TO BE DONE BY OTHERS AT THE OWNERS DIRECTION

	INTERIOR RENOVATION 199 LARK ST; ALBANY NY		DATE SEPT 4 20 SHEET OF OWNER
	DONE BY: RKO	FLOOR PLAN	
FILE # JUN23LAR	SCALE: 1/8"=1'	DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878 CONTRACTOR XIONG



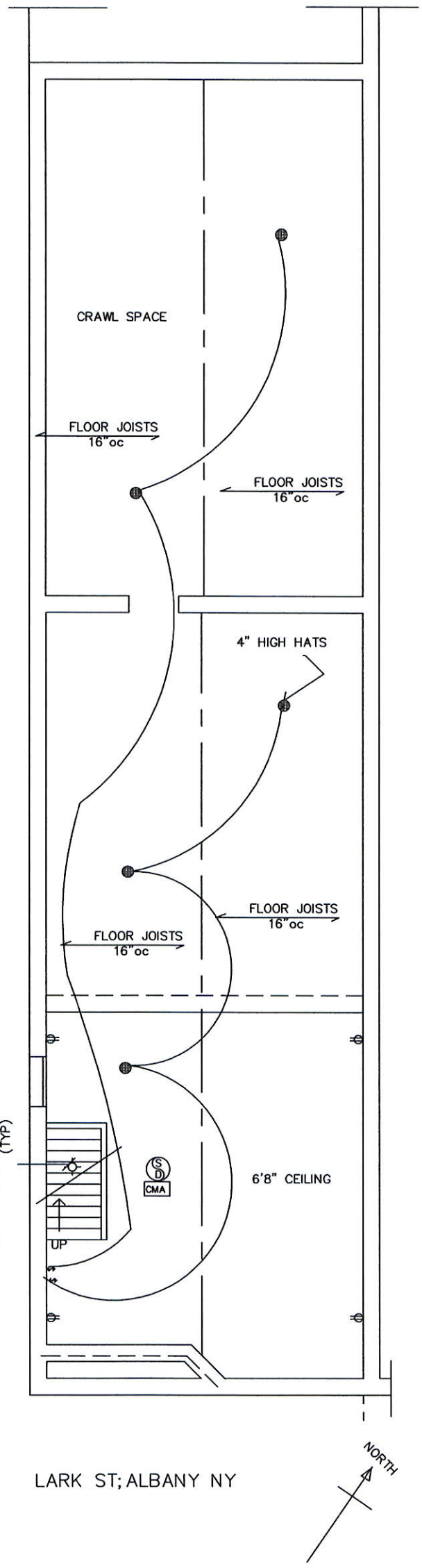


LARK ST; ALBANY NY

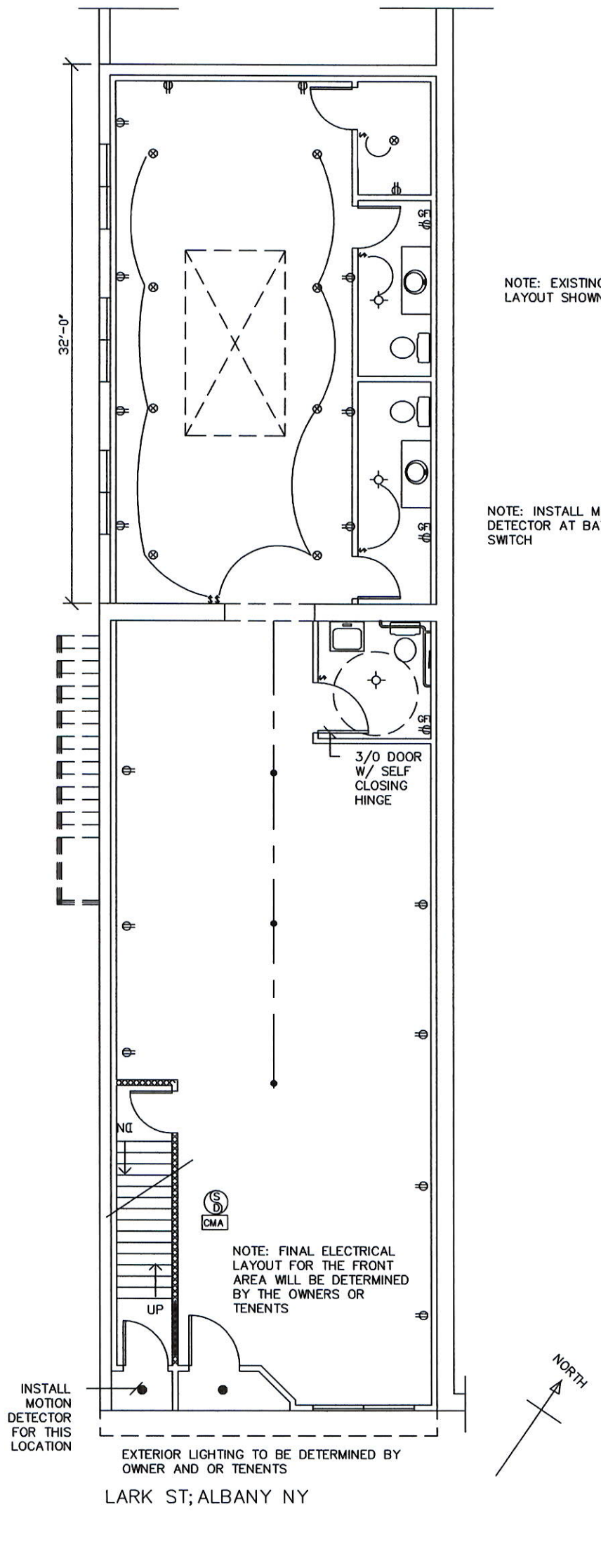
LARK ST; ALBANY NY

NOTE: FINAL DESIGN FOR THE HVAC SYSTEMS IS TO BE DONE BY OTHERS AT THE OWNERS DIRECTION

	INTERIOR RENOVATION 199 LARK ST; ALBANY NY	DATE SEPT 4 20 SHEET OF OWNER
	DONE BY: RKO FLOOR PLAN	
FILE # JUN23LAR	SCALE: 1/8"=1' DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878
		CONTRACTOR XIONG

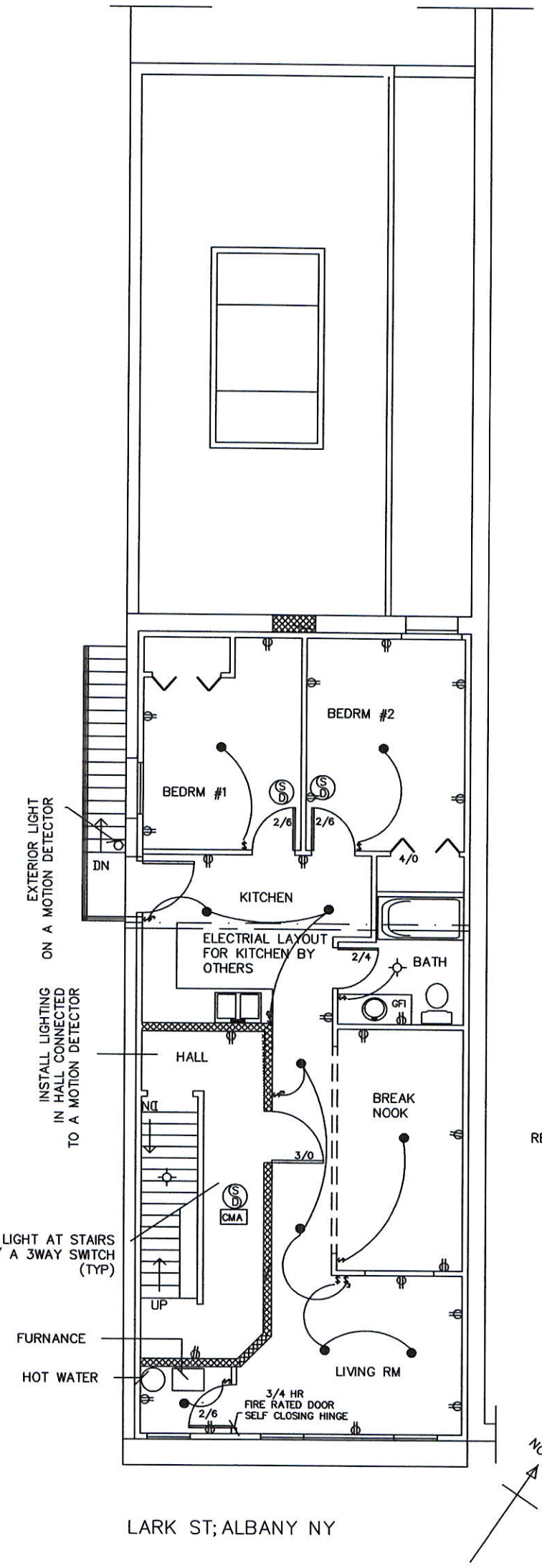


LARK ST; ALBANY NY

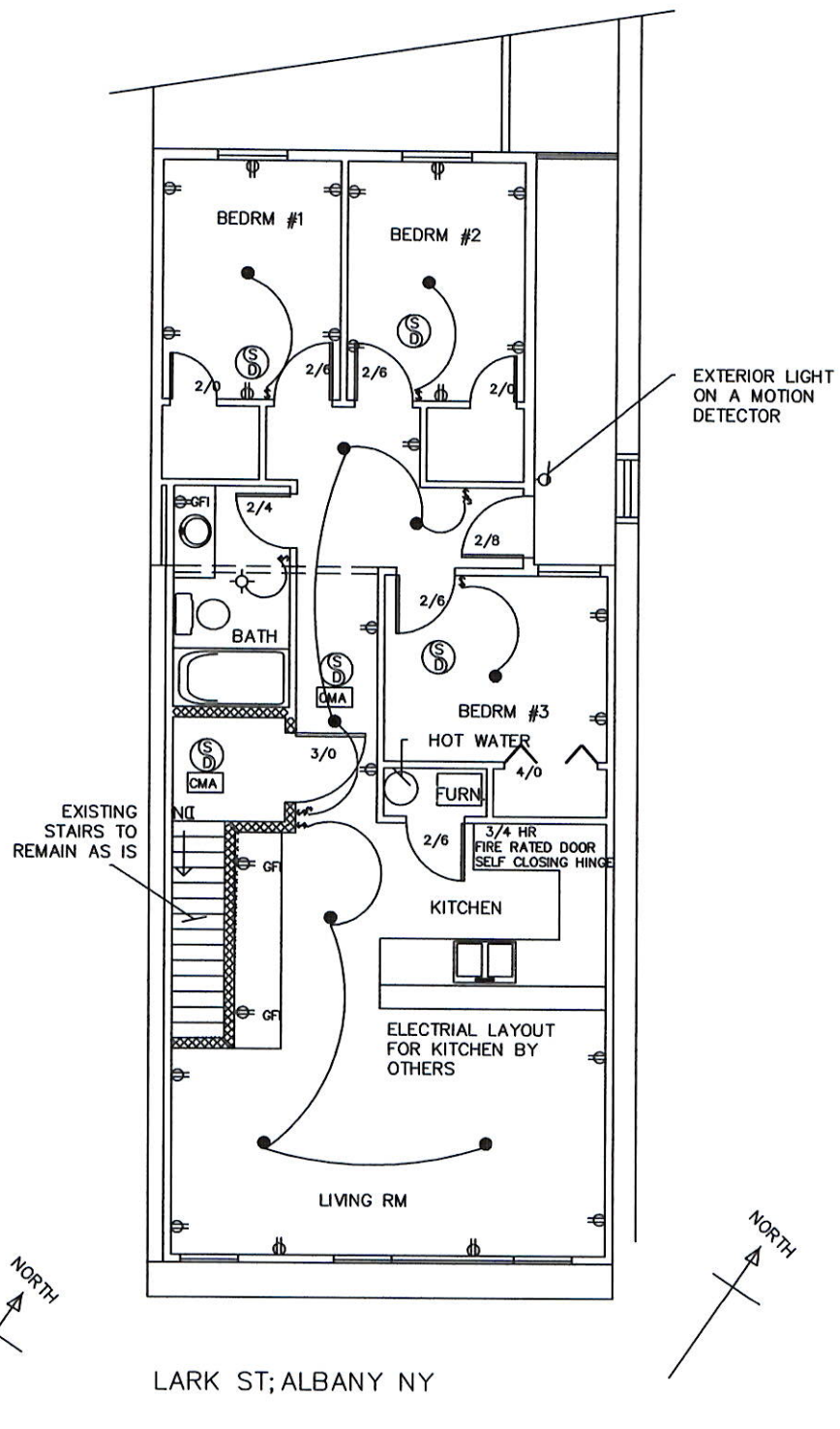


LARK ST; ALBANY NY

	INTERIOR RENOVATION 199 LARK ST; ALBANY NY		DATE SEPT 4 20 SHEET OF OWNER
	DONE BY: RKO	ELECTRICAL PLAN	CONTRACTOR
FILE # JUN23LAR	SCALE: 1/8"=1'	DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878 XIONG

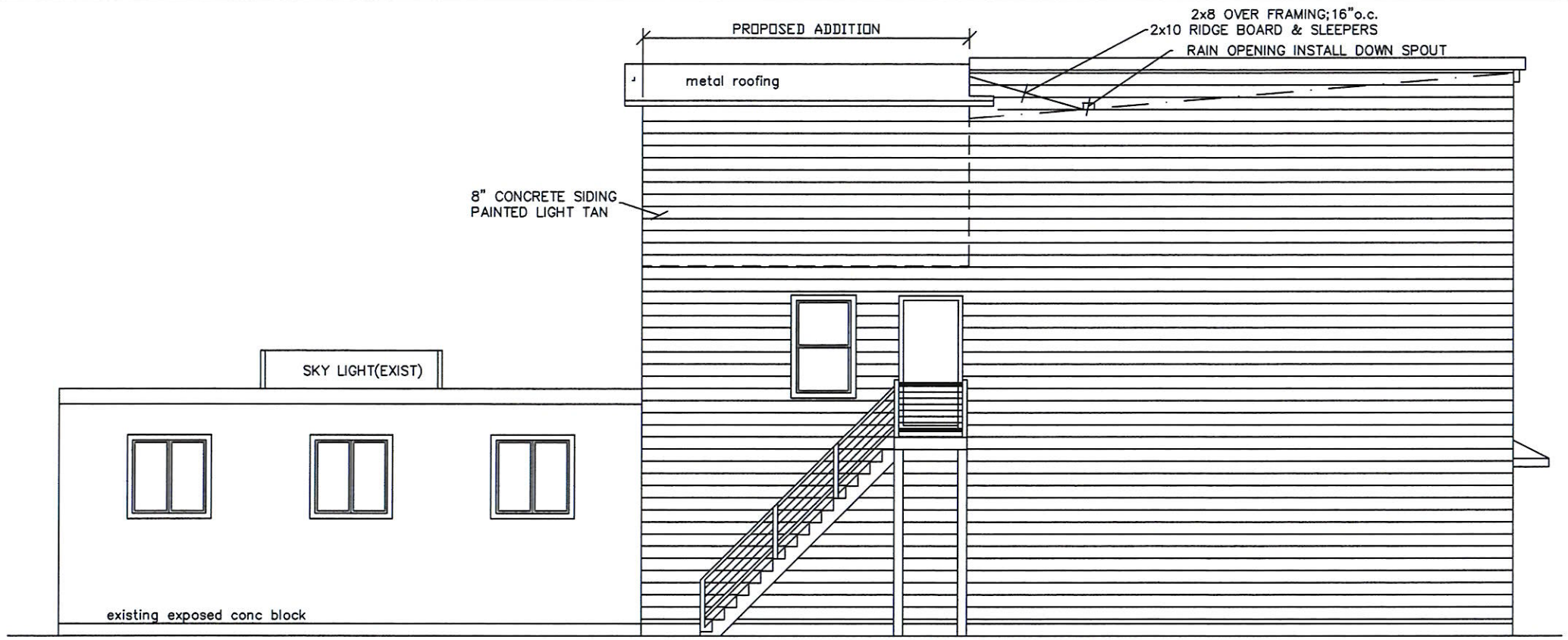


LARK ST; ALBANY NY



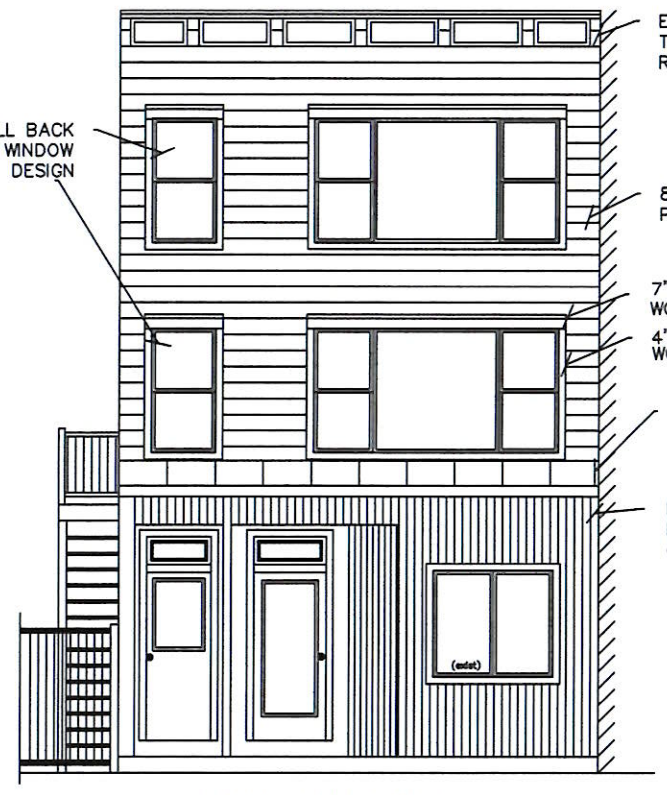
LARK ST; ALBANY NY

	INTERIOR RENOVATION 199 LARK ST; ALBANY NY	DATE SEPT 4 20 SHEET OF OWNER
FILE # JUN23LAR	DONE BY: RKO SCALE: 1/8"=1' ELECTRICAL PLAN DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518–253–8878
		CONTRACTOR XIONG



LEFT SIDE(WEST) ELEVATION

NOTE: ALL NEW WINDOWS ARE TO BE WOOD CLAD PAINTED; WALNUT



FRONT ELEVATION
LARK STREET; ALBANY NY

NOTE: AT THIS TIME NEW SIGNAGE HAS NOT BEEN DETERMINED AND WILL BE DISCUSSED AS A FUTURE TIME

DATE SEPT 4 20
SHEET OF
OWNER
CONTRACTOR XIONG

INTERIOR RENOVATION
199 LARK ST; ALBANY NY

ELEVATIONS

DeRaven Design & Drafting
333 Kingsley Rd;Burnt Hills NY
518*478*0630

ZHECHAO XIONG
518-253-8878

DONE BY: RKO

SCALE: 1/8"=1'

FILE # JUN23LAR

LOADS
1st FLOOR=55#/SQFT
2nd FLOOR=45#/SQFT
ROOF=50#/SQFT
WIND=115 MPH

INSTALL GUTTER

INSTALL ICE/WATER SHIELD
48" WIDE FROM
ROOF EDGE UP

2x6 SUB FASCIA/RAKE
ALUM. or VINYL FINISH
METAL DRIP EDGE
INSTALL PROPER VENT
INSTALL HURRICAN CLIPS

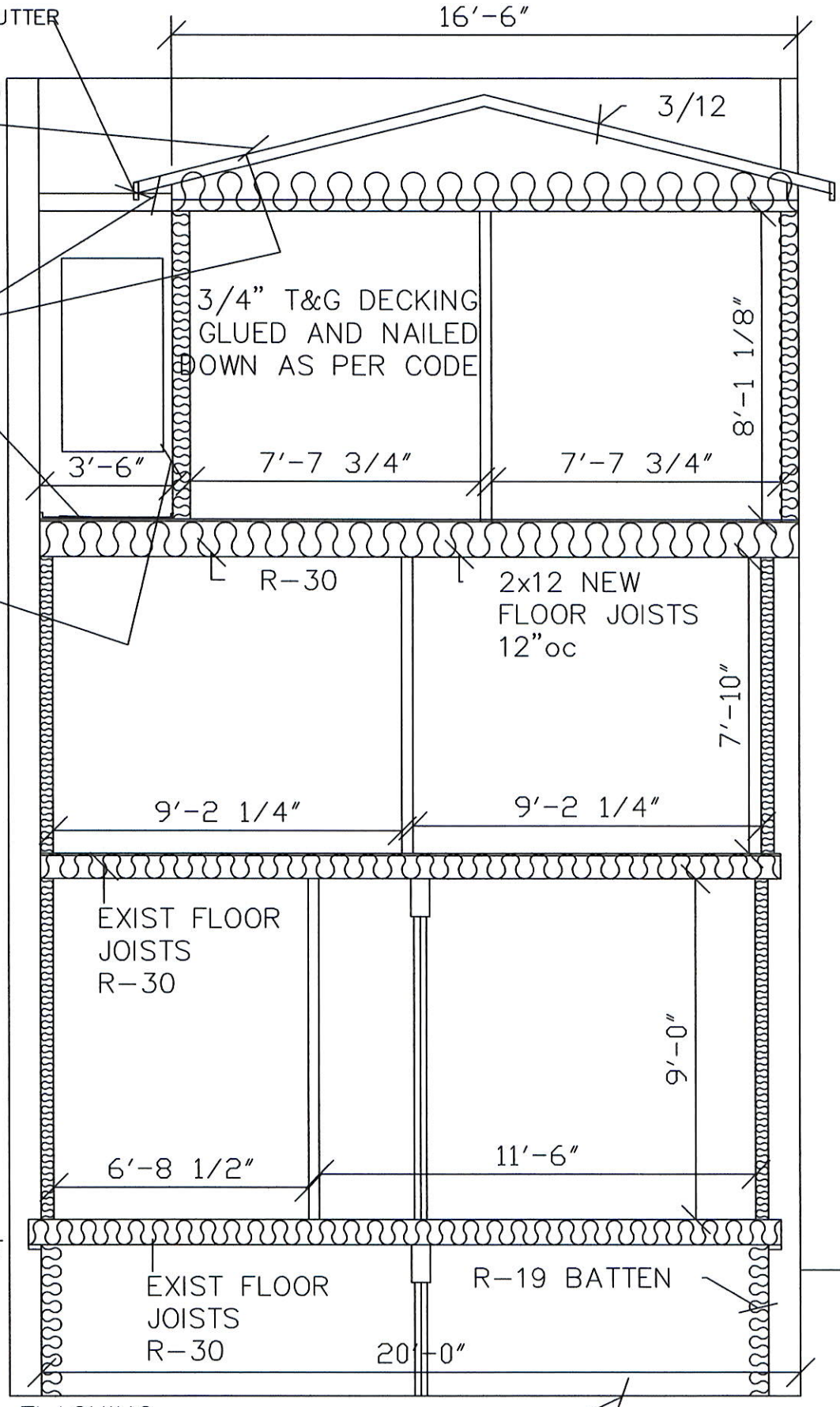
12"CONT VENTED
SOFFIT

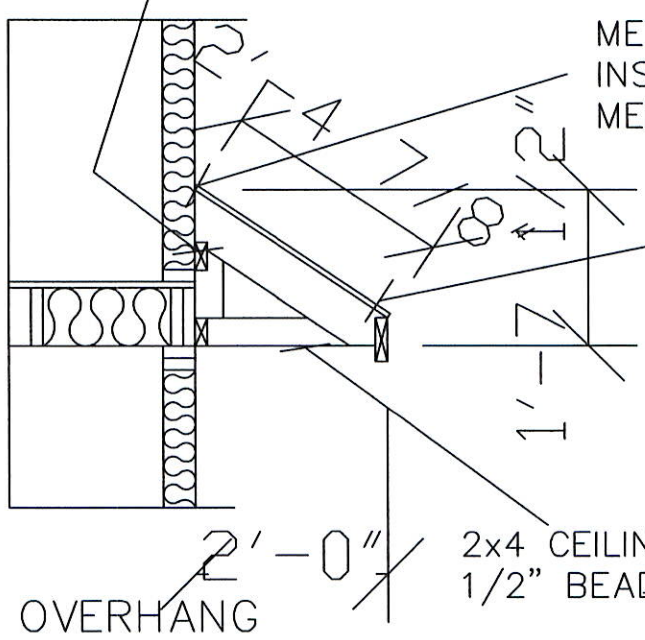
INSTALL RUBBER
ROOF W/ WALKING
SURFACE AS
PER MANF SPECS

EXTERIOR WALL
2x6 STUDS;16"o.c.
DOUBLE TOP PLATE
5 1/2"F.G.BATTEN MIN=R-21
IF UNFACED INSULATION IS
USED INSTALL 4" MIL
POLY AS VAPOR BARRIER
7 1/6" OSB or+
SHEATHING /TYVEX or
EQUAL HOUSE WRAP
CONCRETE SIDING INSTALLED
AS PER MANF SPEC'S
HEADERS =(2)2x10 W/
2 1/2" INSULATION @
CENTER UNLESS NOTED
DIFFERENT.

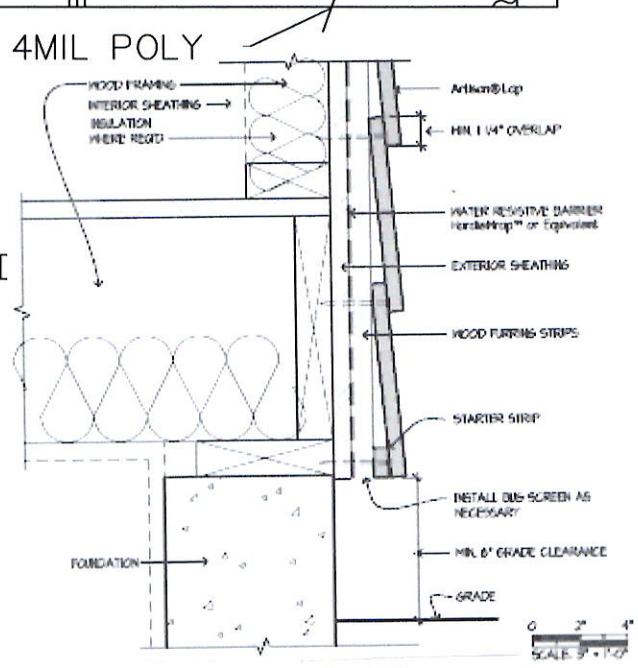
NON BEARING INTERIOR WALL
2x4 STUDS;16"o.c. DOUBLE
TOP PLATE;(2)2x6 W/ 1/2"
PLY CORE =MIN HDR

ROOF SYSTEM
25yr ASPHALT or FIGERGLASS SHINGLED
OVER 15# ROOFING FELT OVER 5/8" OSB
or BETTER DECKING(NAILED DOWN)
INSTALL H CLIPS 24"o.c. OVER NYS APPROVED
ROOF TRUSSES @ 24"o.c. INSTALLED AS PER
ALL BUILDING CODES,THE MANF SPEC'S & THE
TPI HAND OUT. ALL BRACING MUST BE INSTALLED
AS PER MANF SPEC'S. THE INSTALLATION CAN NOT
VARIE FROM SAID SPEC'S
NOTE: ALL TRUSSES TO HAVE 12" RAISED HEELS
FOR R-38(FIBERGLASS) OVER WALLS





OVERHANG
DETAIL



SIDING DETAIL

	EXTERIOR RENOVATION 199 LARK ST; ALBANY NY		DATE SEPT 4 20 SHEET OF OWNER
FILE # JUN23LAR	DONE BY: RKO SCALE: 1/4"=1'	BUILDING DETAILS DeRaven Design & Drafting 333 Kingsley Rd; Burnt Hills NY 518*478*0630	ZHECHAO XIONG 518-253-8878	CONTRACTOR XIONG

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

FEATURES

Frame

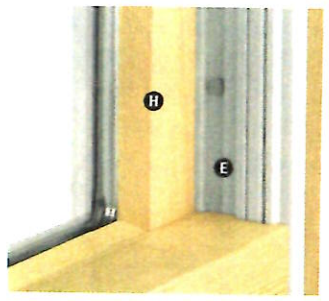
Ⓐ Exterior outer frame members are covered with a Perma-Shield® rigid vinyl cladding, minimizing maintenance and providing an attractive appearance.

Ⓑ For exceptionally long-lasting* performance, sill members are constructed with a wood core and a Fibrex® material exterior. Sill ends are protected and sealed with weather-resistant covers.

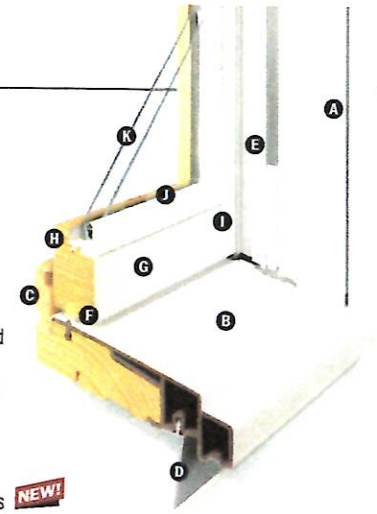
Ⓒ Natural wood stops are available in pine and prefinished White, Dark Bronze and Black.** A new, taller sill stop increases performance to PG40 while still maintaining egress on our most popular sizes.

Ⓓ A factory-applied rigid vinyl anchoring flange on the head, sill and sides of the outer frame helps secure the unit to the structure.

Ⓔ An extruded rigid vinyl jamb liner and fin provide a protective seal against the outer frame members. Exclusive slide wash assists make it easy to tilt sash into wash mode position.



Unique block-and-tackle balancers feature sized-to-the-unit, rust-resistant springs that require no adjustment. Glass-reinforced nylon balancer shoes provide smooth, reliable sash operation. Sash can be removed, without tools, for drywall pass-through.



NEW!

Jamb liners available in white or gray and must be specified when ordering. Contact your Andersen supplier for details.

Ⓕ Weatherstripping throughout the unit provides a long-lasting,* energy-efficient, weather-resistant seal. For the top and bottom rails, an encased foam material is used. The head jamb liner and sill have a rigid vinyl rib that the weatherstripping material compresses against. At the check rail, compressible vinyl bulb material is used. Side jamb liners use leaf-type weatherstripping with foam inserts.

Sash

Ⓗ Wood sash members are treated with a water-repellent preservative for long-lasting* protection and performance. Interior surfaces are unfinished pine. Low-maintenance prefinished White interiors are also available.

Ⓖ A polyester-stabilized coat with a Flexacron® finish is electrostatically applied to penetrate all exterior surfaces for maximum protection and a lustrous finish.

Ⓘ Sash joints simulate the look of traditional mortise-and-tenon construction inside and out.

Glass

Ⓙ Silicone bed glazing provides superior weathertightness and durability.

Ⓚ High-Performance glass options include: Low-E4,® Low-E4 HeatLock,® Low-E4 Sun, Low-E4 SmartSun™ and Low-E4 SmartSun HeatLock glass.

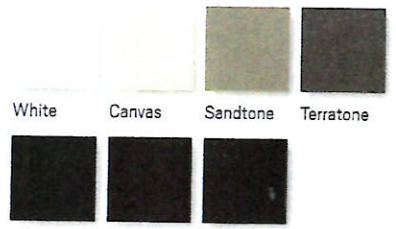
Tempered glass and other glass options are available. Contact your Andersen supplier.

A removable translucent film helps shield the glass from damage during delivery and construction and simplifies finishing at the jobsite.

Patterned Glass

Patterned glass options are available. See page 10 for more details.

EXTERIOR



White | Canvas | Sandtone | Terratone

Forest Green | Dark Bronze | Black

INTERIOR

Pine | White

NEW! NEW!

Dark Bronze** | Black**

Naturally occurring variations in grain, color and texture of wood make each window one-of-a-kind. All wood interiors are unfinished unless a prefinished option is specified.

HARDWARE FINISHES

Antique Brass | Black | Bright Brass | Brushed Chrome | Distressed Bronze | Distressed Nickel

Gold Dust | Oil Rubbed Bronze | Polished Chrome | Satin Nickel | Stone | White

Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use. Printing limitations prevent exact duplication of colors and finishes. See your Andersen supplier for actual color and finish samples.

DOUBLE-HUNG STANDARD & OPTIONAL HARDWARE

Estate™ lock & keeper and all lifts are sold separately.

STANDARD

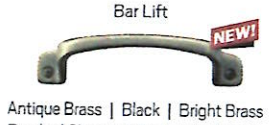
Lock & Keeper

Black | Gold Dust | **Stone** | White

Stone is standard with natural interior units. White comes with prefinished White interiors. Other finishes optional.

CONTEMPORARY

Bar Lift



NEW!

Antique Brass | Black | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Gold Dust
Oil Rubbed Bronze | Polished Chrome
Satin Nickel | Stone | White

ESTATE™

Lock & Keeper

Optional Estate lock & keeper reduces the clear opening height by 9/16" (14). Check with local building code officials to determine compliance with egress requirements.

Hand Lift | Finger Lifts

Antique Brass | Bright Brass
Brushed Chrome | Distressed Bronze
Distressed Nickel | Oil Rubbed Bronze
Polished Chrome | **Satin Nickel**

Bold name denotes finish shown.

TRADITIONAL

Hand Lift | Finger Lifts | Bar Lift

Antique Brass | Black | Bright Brass | Brushed Chrome
Distressed Bronze | Distressed Nickel | Gold Dust | **Oil Rubbed Bronze**
Polished Chrome | Satin Nickel | Stone | White

CLASSIC SERIES™

Hand Lift | Finger Lifts | Bar Lift

Stone | **White**

* Visit andersenwindows.com/warranty or for details.
** Dark Bronze and Black interiors are only available with Dark Bronze and Black exteriors respectively.
"Flexacron" is a registered trademark of PPG Industries, Inc.
Dimensions in parentheses are in millimeters.

StormWATCH PROTECTION

400 Series tilt-wash double-hung full-frame windows are available with Stormwatch® protection. Visit **andersenwindows.com/coastal** for more details.

Performance Grade (PG) Upgrade

A high inside sill stop* and interior/exterior brackets are available to provide additional structural support for tilt-wash units, allowing standard glass units to achieve higher performance grade ratings. Performance Grade (PG) Ratings replace Design Pressure (DP) Ratings for measuring product performance. For up-to-date performance information of individual products, please visit **andersenwindows.com**. Use of this option will subtract 3/8" (15) from clear opening height. PG Upgrade not available for 72" (1829) and 76" (1930) heights.

Sash Options

Cottage Style | Reverse Cottage Style

For more information about **glass, patterned glass, art glass, grilles and TruScene® insect screen** see pages 10-17.

For more information about **combination designs, product performance, installation accessories and warranty** see pages 255-291 or visit

andersenwindows.com

ACCESSORIES Sold Separately

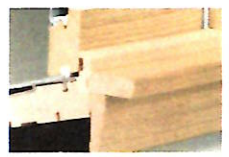
Frame

Extension Jambs

Standard jamb depth is 4 1/2" (114). Extension jambs are available in unfinished pine or prefinished White. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/16" (1.5) increments between 5 1/16" (129) and 7 1/8" (181). Extension jambs can be factory-applied to either three sides (stool and apron application) or four sides (picture frame casing).

Pine Stool



A clear pine stool is available and ready for finishing. The tilt-wash stool is available in 4 9/16" (116) for use in wall depths up to 5 1/4" (133), and 6 9/16" (167) for use in wall depths up to 7 1/8" (181). Works with 2 1/4" (57) and 2 1/2" (64) wide casings.

Sash

Window Opening Control Device

NEW!

A new recessed window opening control device is available factory-applied. It limits the sash travel to 4" (102) when the window is first opened. Available in Stone, White and Black.

Security Sensors

VeriLock® Sensors

VeriLock sensors are available in five colors. See page 30 for details.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors. See page 30 for details.

Glass

Andersen® Art Glass

Available for 400 Series tilt-wash transom and picture units. Andersen art glass panels come in a variety of original patterns. See pages 213-214 for details on Andersen art glass. Visit **andersenwindows.com/artglass** for details and pattern information.

Storm/Insect Screen Combination Unit**

A self-storing storm window combined with an insect screen provides greater energy efficiency, while allowing ventilation when needed. They can be easily installed on the exterior of most 400 Series full-frame double-hung windows. Also available for 200 Series Narroline® double-hung windows (made from 1968 to 2013).

Available in White, Sandtone and Terratone colors to match product exteriors. Canvas, Forest Green, Dark Bronze and Black available by special order.

Construction

Constructed with an aluminum frame, single-pane upper and lower glass panels and charcoal powder-coated aluminum screen mesh.

Energy Efficiency

400 Series tilt-wash double-hung windows with Low-E4® glass and combination unit is 60% more energy efficient in winter and 57% more energy efficient in summer compared to ordinary dual-pane glass.†

Sound Reduction

Combination units can improve Sound Transmission Class (STC) and Outdoor Indoor Transmission Class (OITC) ratings. Ideal for projects near airports, busy roadways or other noisy environments.

For example, adding a combination unit to a 400 Series tilt-wash double-hung (3862) unit with Low-E4® glass will improve its STC rating from 26 to 32. Contact your Andersen supplier for additional STC and OITC rating information.

Insect Screens

Insect Screen Frames

Choose full insect screen or half insect screen. Frame colors match product exteriors. Half insect screen (shown above) allows ventilation without affecting the view through the upper sash. They are available for most unit sizes and are not available on windows with Stormwatch protection.

TruScene® Insect Screen

Exclusive Andersen® TruScene® insect screens provide over 50% more clarity than our conventional insect screens for a beautiful unobstructed view. They allow more fresh air and sunlight in, while doing a better job of keeping out small insects.

Conventional Insect Screen

Conventional insect screens have charcoal powder-coated aluminum screen mesh.

Grilles

Grilles are available in a variety of configurations and widths. For double-hung grille patterns, see page 96.

Exterior Trim

This product is available with Andersen® Exterior Trim. See pages 215-220 for details.

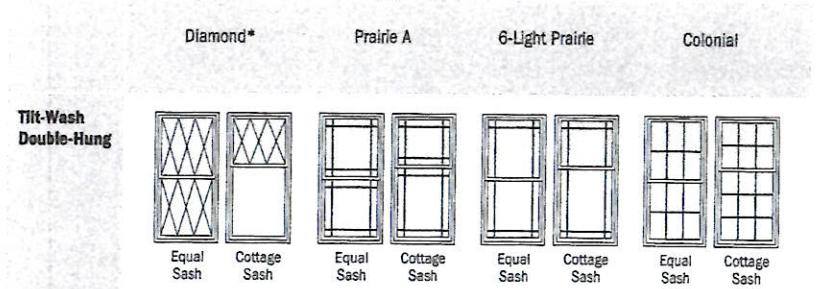
CAUTION:

- Painting and staining may cause damage to rigid vinyl.
- Do not paint 400 Series windows with White, Canvas, Sandtone, Forest Green, Dark Bronze or Black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner–applied paint over vinyl or other factory–coated surfaces.
- 400 Series windows in Terratone color may be painted any color lighter than Terratone color using quality oil-base or latex paint.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstripping.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

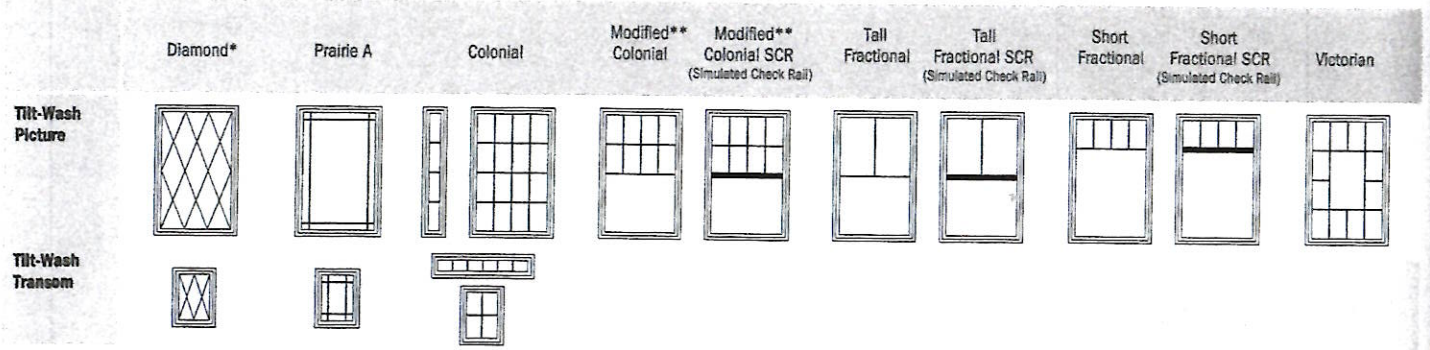
* Infringes on the overall net clear opening. Unit clear operable area may not meet egress requirements. See your local building code official for more information. ** Do not add combination units to windows with Low-E4® Sun glass, unless window glass is tempered. Application of combination units may affect the performance of Low-E4 and Low-E4 SmartSun™ glass exterior coating. Combination units may also reduce the overall clear operable area of the window. See your local code official for egress requirements in your area. †Values are based on comparison of Andersen® double-hung window conversion kit U-Factor to the U-Factor for clear dual-pane glass non-metal frame default values from the 2006, 2009, 2012, 2015 and 2018 International Energy Conservation Code "Glazed Fenestration" Default Tables. Dimensions in parentheses are in millimeters.

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

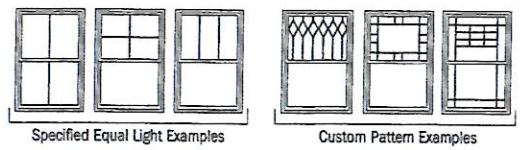
Divided Light Patterns



Patterns for double-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns are not available in all configurations.**



*Available only in Simulated Divided Light (SDL) configuration and only in 3/4" (19) and 7/8" (22) widths.
**Location from top of window to bottom of divided light pattern is available at 8" (203), 10" (254), 12" (305), center and custom dimensions.

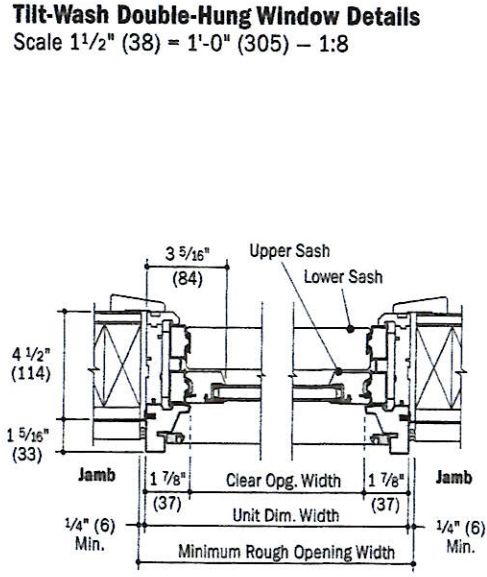

Specified Equal Light Examples

Custom Pattern Examples

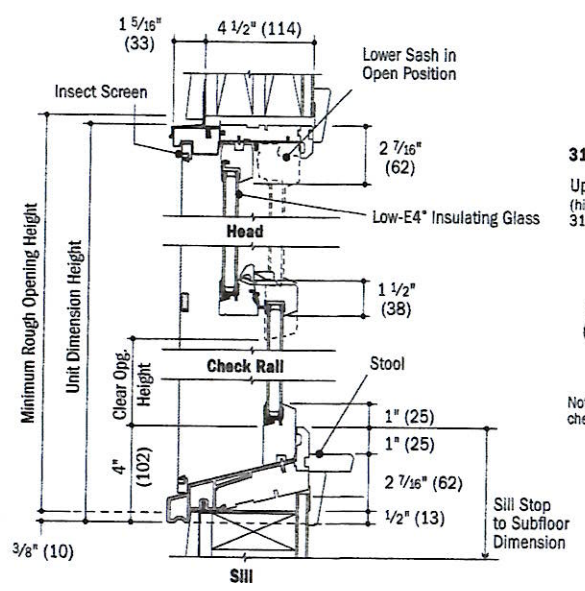
Specified equal light and custom patterns are also available. For more information on divided light, see page 11 or visit **andersenwindows.com/grilles**.

Tilt-Wash Double-Hung Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

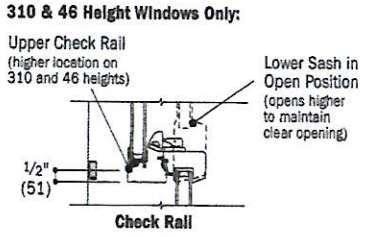


Horizontal Section



Vertical Section
All window heights except 310 & 46

310 & 46 Height Windows Only:

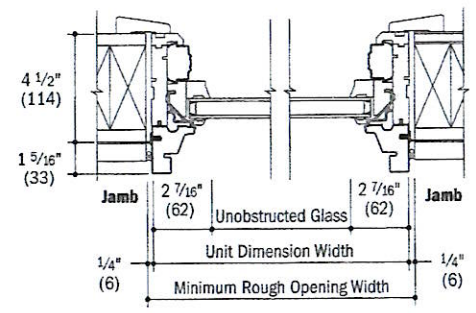


Note: Check rail location on optional insect screens matches check rail location on 310 and 46 window heights.

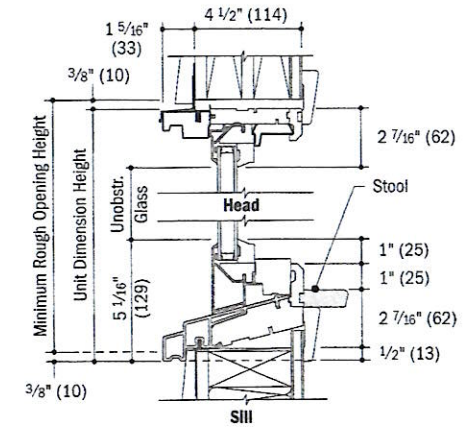
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen* parts required to complete window assembly as shown.
- **Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 288-289.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Tilt-Wash Picture Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



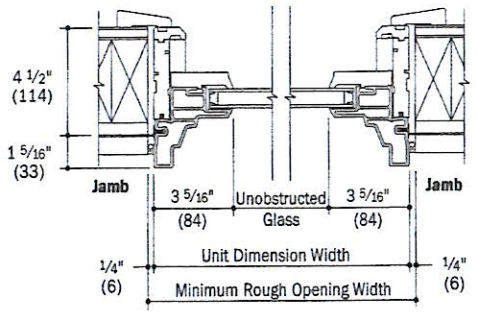
Horizontal Section



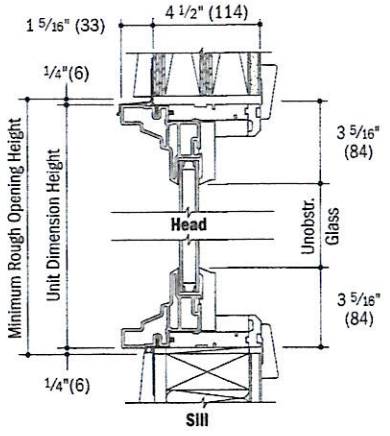
Vertical Section

Tilt-Wash Transom Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section



Vertical Section

Horizontal (stack) Joining Detail

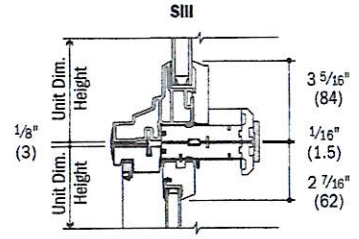
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Height

Sum of individual window heights plus 1/16" (1.5) for each join.

Overall Rough Opening Height

Overall window dimension height.*



Head
Vertical Section
Transom (**TWT**) over Tilt-Wash Double-Hung

Vertical (ribbon) Joining Detail

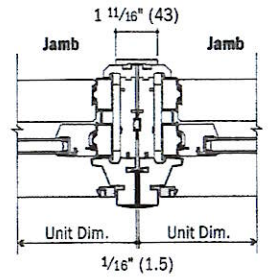
Scale 1 1/2" (38) = 1'-0" (305) – 1:8

Overall Window Dimension Width

Sum of individual window widths plus 1/16" (1.5) for each join.

Overall Rough Opening Width

Overall window dimension width plus 1/2" (13).



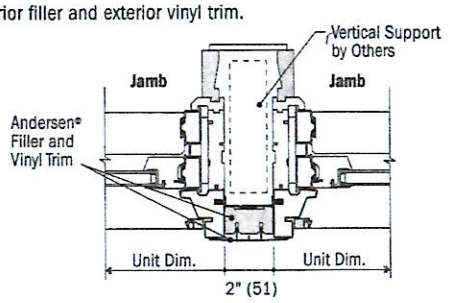
Horizontal Section
Tilt-Wash Double-Hung to Tilt-Wash Double-Hung

For more joining information, see the combination designs section starting on page 255.

Separate Rough Openings Detail

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen* exterior filler and exterior vinyl trim.



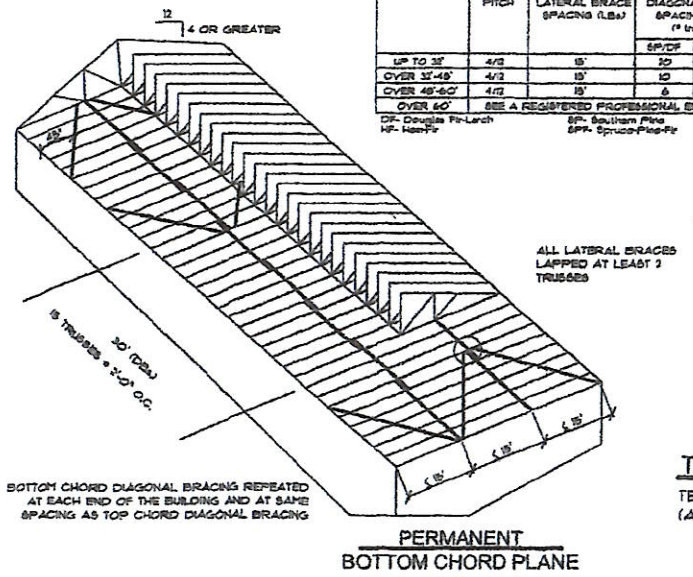
Horizontal Section
Tilt-Wash Double-Hung and Tilt-Wash Double-Hung

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen* parts required to complete window assembly as shown.
- **Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 288-289.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.
- *For stacks where bottom unit in combination is a double-hung or picture window with a sloped sill, if bottom window has a straight sill add 1/2" (13) to the overall window dimension height.

PREFABRICATED WOOD ROOF TRUSSES:

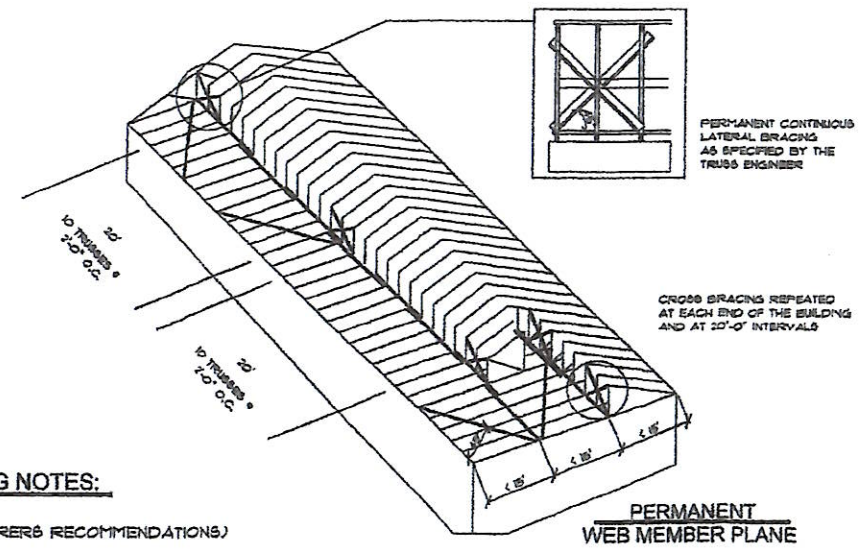
1. PREFABRICATED WOOD ROOF TRUSSES SHALL COMPLY WITH TRUSS PLATE INSTITUTE (TPI) STANDARDS.
2. SUBMIT SHOP DRAWINGS, CERTIFIED BY A N.Y.S. LICENSED PROFESSIONAL ENGINEER TO THE BUILDER/CONTRACTOR, SHOWING SPECIES, SIZES AND STRESS GRADES OF LUMBER USED; PITCH, SPAN, CAMBER CONFIGURATION AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUE, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING AND ANCHORING DETAILS.
3. PROVIDE SEASONED LUMBER WITH MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING OF 15%
4. PROVIDE LUMBER WHICH HAS BEEN GRADED TO HAVE THE FOLLOWING MINIMUM VALUES: FB = 1,500 PSI OR BETTER FOR CHORDS. FB = 1,000 PSI OR BETTER FOR WEBS.
5. METAL CONNECTORS SHALL NOT BE LESS THAN 0.036" THICK, COATED THICKNESS. GALVANIZED SHEET STEEL: ASTM A-446, GRADE A COATING G60.
6. PROVIDE TIE DOWN ANCHORS; 18 GA. GALVANIZED STEEL PLATE; 'SIMPSON HURRICANE TIE' OR AN APPROVED EQUAL
7. ERECT AND BRACE TRUSSES TO COMPLY WITH RECOMMENDATIONS OF MANUFACTURER AND TPI, WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT DESIGN SPACING INDICATED
8. INSTALL PERMANENT BRACING AND RELATED COMPONENTS AS SPECIFIED ON CERTIFIED SHOP DRAWINGS AND SHOWN IN THE ABOVE DETAILS, TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND COMPLY WITH OTHER INDICATED REQUIREMENTS.

NOTE: NOTCHING OF BOTTOM CHORD OF THE ROOF TRUSS NOT ALLOWED.



SPAN	MINIMUM PITCH	BOTTOM CHORD LATERAL BRACE SPACING (LBs)	BOTTOM CHORD DIAGONAL BRACE SPACING (DBs) (* trusses)	
			SP/DF	SP/DF
UP TO 32'	4/12	15'	20	15
OVER 32'-48'	4/12	15'	10	7
OVER 48'-60'	4/12	15'	6	4
OVER 60'	SEE A REGISTERED PROFESSIONAL ENGINEER			

DF- Douglas Fir-Larch
HF- Hem/Fir
SP- Southern Pine
SPF- Spruce-Pine-Fir



TRUSS BRACING NOTES:

TEMPORARY:
(AS PER MANUFACTURERS RECOMMENDATIONS)

PERMANENT
TOP CHORD PLANE

ROOF SHEATHING APPLIED WITH STAGGERED JOINTS AND NAILED IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE IS ADEQUATE.

REFER TO MANUFACTURER'S ROOF TRUSS SPECIFICATIONS FOR ADDITIONAL REQUIRED TRUSS BRACING.

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN: Speed[d] (mph)	Topographic effects[k]	Special wind region[l]	Wind-borne debris zone[m]	SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM: Weathering[a]	Frost line depth[b]	Termite[c]	WINTER DESIGN TEMP[e]	ICE BARRIER UNDERLAYMENT REQUIRED[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
50	115	NO	NO	1	B	SEVERE	48"	SLIGHT to MOD	5	YES	2007 FIRM	1500	40.3

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index, "negligible," "moderate" or "severe" for concrete as determined from Figure R301.2(3). The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.

b. The frost line depth may require deeper footings than indicated in Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.

c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.

d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.

e. The outdoor design dry-bulb temperature shall be selected from the columns of 97½-percent values for winter from Appendix D of the International Plumbing Code. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official.

f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.

g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of the currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.

h. In accordance with Sections R905.1.2, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."

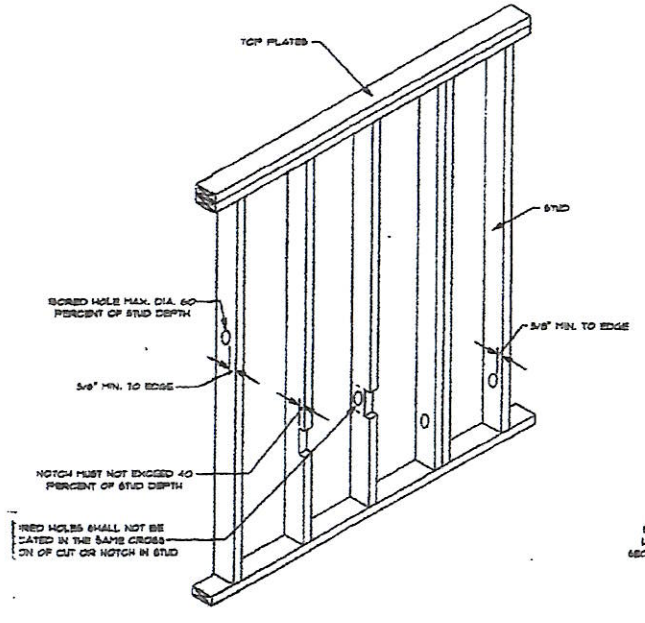
i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."

j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."

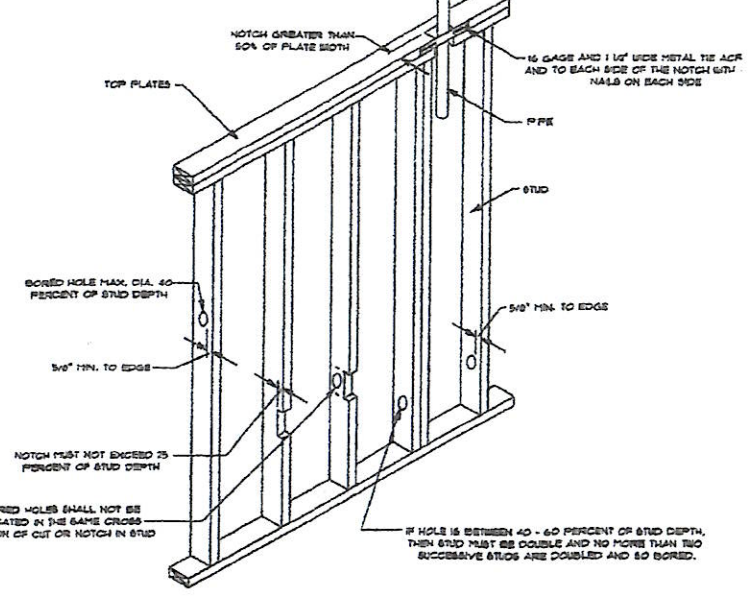
k. In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

l. In accordance with Figure R301.2(4)b, where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any special requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

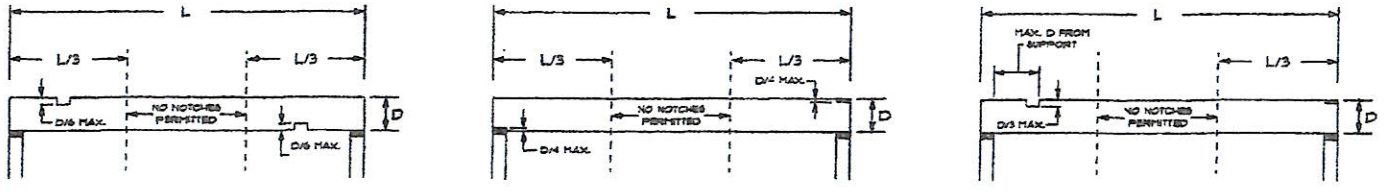
m. In accordance with Section R301.2.1.3.1, the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.



NOTCHING & BORED HOLE LIMITATIONS FOR INTERIOR NON BEARING WALLS



NOTCHING & BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS



FLOOR JOIST - CENTER CUTS | FLOOR JOIST - END CUTS | RAFTER/CEILING JOISTS

NOTCHING & DRILLING DETAILS

DATE
SHEET OF
OWNER
CONTRACTOR

BRACING DETAILS

ZHECHAO XIONG
518-253-8878

DeRaven Design & Drafting
333 Kingsley Rd;Burnt Hills NY
518*478*0630

DONE BY: RKO
SCALE:

TIMBER HEAD SCHEDULE

SPAN	HEADER	JACK STUDS
UP TO 3'-6"	(2) 2 X 6	ONE EACH END
UP TO 4'-6"	(2) 2 X 8	TWO EACH END
UP TO 6'-0"	(2) 2 X 10	TWO EACH END
UP TO 7'-6"	(2) 2 X 12	TWO EACH END
UP TO 10'-0"	(2) 2 X 12*	TWO EACH END

OVER 10'-0" SEE FRAMING PLANS
* WITH 1/2" PLYWOOD PLATE BETWEEN TIMBERS

USE THIS CHART ONLY IF HEADER SIZE IS NOT SHOWN ON PLAN(S)

PREFABRICATED WOOD ROOF TRUSSES

1. PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH TRUSS PLATE INSTITUTE (TPI) STANDARDS.
2. SUBMIT SHOP DRAWINGS, CERTIFIED BY A NYS LICENSED PROFESSIONAL ENGINEER, SHOWING SPECIES, SIZES AND STRESS GRADES OF LUMBER USED; PITCH, SPAN, CAMBER CONFIGURATION AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUE, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING AND ANCHORING DETAILS.
3. PROVIDE SEASONED LUMBER WITH MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING OF 15%.
4. PROVIDE LUMBER WHICH HAS BEEN GRADED TO HAVE THE FOLLOWING MINIMUM VALUES: FB = 1500 PSI OR BETTER FOR CHORDS. FB = 1000 PSI OR BETTER FOR WEBS.
5. METAL CONNECTORS SHALL NOT BE LESS THAN 0.036" THICK, COATED THICKNESS. GALVANIZED SHEET STEEL: ASTM A 446, GRADE A COATING G60.
6. PROVIDE TIE DOWN ANCHORS; 18 GA. GALVANIZED STEEL PLATE; 'SIMPSON HURRICANE TIE' OR APPROVED EQUAL.
7. ERECT AND BRACE TRUSSES TO COMPLY WITH RECOMMENDATIONS OF MANUFACTURER AND TPI, WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT DESIGN SPACING INDICATED.
8. INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND COMPLY WITH OTHER INDICATED REQUIREMENTS.

BRACING OF WOOD TRUSSES

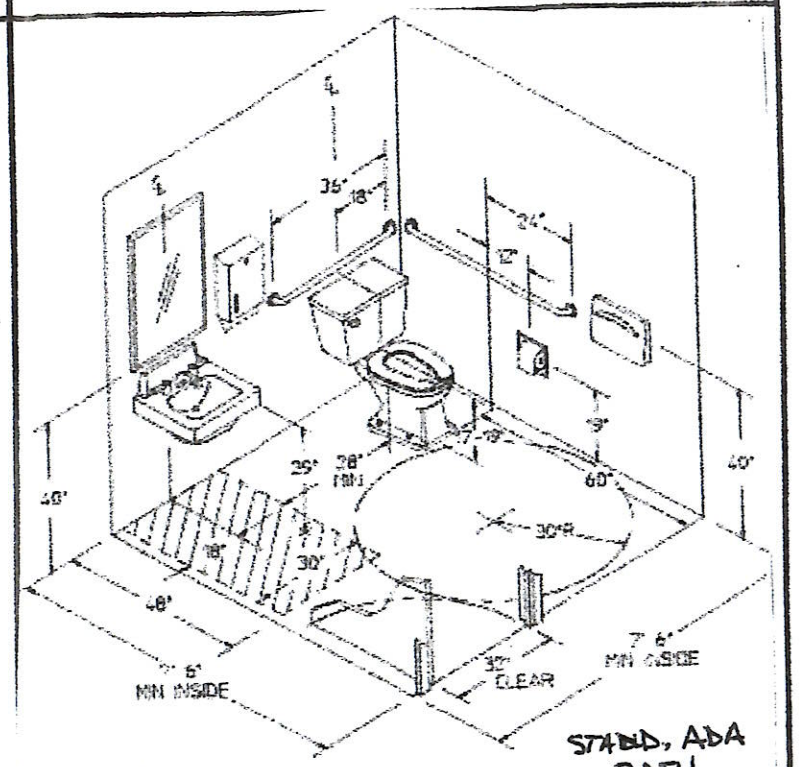
1. AS TRUSSES ARE SET IN PLACE CONTRACTOR SHALL APPLY SUFFICIENT TEMPORARY BRACING TO HOLD THE TRUSS PLUMB, IN ALIGNMENT AND IN A SAFE CONDITION UNTIL PERMANENT BRACING, DECKING AND/OR SHEATHING IS INSTALLED.
2. ERECT AND BRACE TRUSSES TO COMPLY WITH RECOMMENDATIONS OF MANUFACTURER AND TPI, WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT DESIGN SPACING INDICATED.
3. MAINTAIN EXACT SPACING BETWEEN TRUSSES AS BRACING IS INSTALLED, AVOID REMOVING BRACING TO ADJUST SPACING AS SHEATHING IS INSTALLED. TEMPORARY BRACING MAY BECOME PERMANENT BRACING.

PERMANENT BRACING

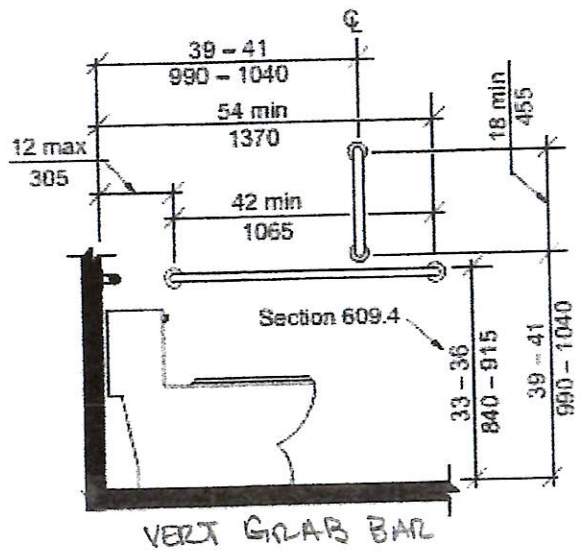
1. INSTALL CONTINUOUS 2X4 LATERAL BRACING WITHIN 6" OF THE RIDGE (OR CENTERLINE) AT THE TOP CHORD OF TRUSSES AND AT 8' TO 10' INTERVALS BETWEEN RIDGE AND EAVES.
2. INSTALL 2X4 DIAGONAL BRACING BETWEEN LATERAL BRACES, SET AT APPROX. 45 DEGREES ANGLES, ON THE UNDERSIDE OF THE TOP CHORD OF THREE END TRUSSES AND 20' MAX. O.C. (DO NOT REMOVE BRACING AS PLYWOOD DECKING IS INSTALLED).
3. INSTALL CONTINUOUS 2X4 LATERAL BRACING AT 8' TO 10' O.C. FULL LENGTH OF BUILDING TO THE TOP OF THE BOTTOM CHORD. ANCHOR BRACING WITH 2-16D NAILS AT EACH INTERSECTION WITH TRUSS MEMBER.
4. INSTALL 2X4 DIAGONAL WEB BRACING AT THREE END TRUSSES. START HIGH AT END
TRUSS AND INSTALL DIAGONALLY DOWNWARD TO THIRD INTERIOR TRUSS. ANCHOR WITH 2-16D NAILS AT EACH INTERSECTING WEB MEMBER.
5. INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND COMPLY WITH OTHER INDICATED REQUIREMENTS.

PLUMBING CHART

FIXTURE	DRAINAGE	VENT	SUPPLY
WATER CLOSET	3"	3"	3/8"
LAVATORY	1-1/2"	1-1/2"	3/8"
BATH TUB	1-1/2"	1-1/2"	1/2"
KITCHEN SINK	1-1/2"	1-1/2"	1/2"
SHOWER	2"	1-1/2"	1/2"
HOSE BIB	—	—	1/2"
WASHER	1-1/2"	1-1/2"	1/2"



STAND, ADA BATH



VERT GRAB BAR

GENERAL NOTES

1) THE CONTRACTOR SHALL APPLY FOR AND PROPERLY POST REQUIRED BUILDING PERMITS AS WELL AS ARRANGE FOR ALL REQUIRED INSPECTIONS BY THE LOCAL BUILDING DEPARTMENT AND/OR ANY OTHER AGENCY HAVING JURISDICTION.
2) ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE STATE/LOCAL BUILDING CODE REQUIREMENTS AND SHALL BE IN ACCORDANCE WITH THE RESIDENTIAL CODE OF NEW YORK STATE.
3) CONTRACTORS SHALL PERFORM ALL MISC. REMOVALS, MODIFICATIONS, CONSTRUCTION AND CLEANUP REQUIRED TO COMPLETE THE GENERAL SCOPE OF THIS PROJECT.
4) CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL AND COMPONENTS NECESSARY, (SUCH AS NAILS, SCREWS, SEALANT, FLASHING ETC...) TO PROVIDE A STRUCTURALLY SOUND AND WEATHER TIGHT BUILDING.
5) CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES AND SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
6) CONTRACTORS SHALL INDEMNIFY THE OWNER AND HIS AGENTS THROUGH ADEQUATE INSURANCE COVERAGE AGAINST ANY CLAIMS ARISING FROM INJURIES DURING CONSTRUCTION OR FAILURE TO MAINTAIN SAFE CONDITIONS ON THE CONSTRUCTION SITE.
7) CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, ROUGH-OPENING SIZE, ROOF PITCHES, ETC.. AT THE SITE PRIOR TO BEGINNING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR DEVIATION FROM THESE DRAWINGS FOR REVIEW AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ERROR WHICH ARE NOT REPORTED.
8) UNAUTHORIZED ALTERATIONS TO THESE DRAWINGS IS A VIOLATION OF NYS EDUCATION LAW ARTICLE 145, SECTION 7209.
9) DIMENSIONS ARE GIVEN FROM FACE OF EXTERIOR FRAMING TO FACE OF INTERIOR FRAMING (TYPICALLY) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS FOR DIMENSIONS. DIMENSIONS SHALL BE READ OR CALCULATED AND SHALL BE FIELD VERIFIED BY THE BUILDER.
10) ANY STRUCTURAL MEMBER SUBJECT TO CUTTING, DRILLING OR NOTCHING SHALL BE REINFORCED, REPAIRED AND / OR REPLACED, AND LEFT IN A SAFE, STRUCTURALLY SOUND CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYS BUILDING CODE.
11) ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
12) ALL PLUMBING SHALL BE INSTALLED PER STATE PLUMBING CODE AND ALL APPLICABLE LOCAL PLUMBING REGULATIONS..
13) DESIGN LOADS: 1st FLOOR LOAD 50 PSF, 2nd FLOOR LOAD 40 PSF, ROOF LIVE LOADS 65 PSF, WIND LOADS (EAVES) 115 mph, WALLS LIVE LOAD 15 PSF
14) STANDARD FRAMING LUMBER SHALL BE NO. 2 EASTERN WHITE PINE (OR BETTER), WITH FB=950 PSI AND E = 1,100,000 PSI
15) METAL CONNECTORS SHALL NOT BE LESS THAN 0.036" THICK, COATED THICKNESS. GALVANIZED SHEET STEEL: ASTM A 446, GRADE A COATING G60.
16) MICROLLAM LUMBER SHALL BE STRUCTURALLY RATED AS FOLLOWS; FB = 2900 PSI, E = 2,000,000 PSI.
17) INSTALL 2X4 SOLID WOOD BLOCKING AT MID HEIGHT OF ALL WALLS OVER 8' IN HEIGHT.
18) INSTALL DOUBLE FLOOR JOISTS UNDER PARALLEL PARTITIONS 6' OR MORE IN LENGTH.
19) ALL COLUMNS AND OTHER SOLID FRAMING SHALL EXTEND DOWN THROUGH ALL LEVELS AND TERMINATE AT THE FOUNDATION LEVEL AND BE SUPPORTED BY THE CONCRETE FOUNDATION WALLS AND FOOTINGS.

DATE
SHEET OF
OWNER
CONTRACTOR

GENERAL NOTES

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