

Burlington Development Review Board

Department of Permitting & Inspections

645 Pine Street

Burlington, VT 05401

www.burlingtonvt.gov/DPI/DRB

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Development Review Board

Tuesday, September 2, 2025, 5:00 PM

645 Pine Street, Front Conference Room or Remote on Zoom:

Please click the link below to join the webinar:

Zoom: <https://us02web.zoom.us/j/83225696227?pwd=SGQ0bTdnS000Wkc3c2J4WWw1dzMxUT09>

Webinar ID: 832 2569 6227

Passcode: 969186

Telephone: US +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799

1. Agenda

2. Communications

3. Minutes

4. Certificate of Appropriateness

4.1.

ZIP-25-313; 147 South Cove Road (RL, Ward 5) Katrina Thornburgh / Paul Rosenfeld

Proposed construction of a new home on existing vacant lot. (Project Manager, Scott Gustin)

5. Adjournment

6. Informational and Non-Discrimination Statements

6.1.

Plans may be viewed upon request by contacting the Department of Permitting & Inspections between the hours of 8:00 a.m. and 4:30 p.m. Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at www.burlingtonvt.gov/dpi/drb/agendas or the office notice board, one week before the hearing for the order in which items will be heard.

The City of Burlington will not tolerate unlawful harassment or discrimination on the basis of political or religious affiliation, race, color, national origin, place of birth, ancestry, age, sex, sexual orientation, gender identity, marital status, veteran status, disability, HIV positive status, crime victim status or genetic information. The City is also committed to providing proper access to services, facilities, and employment opportunities. For accessibility information or alternative formats, please contact Human Resources Department at (802) 540-2505.

Department of Permitting & Inspections

Zoning Division
645 Pine Street
Burlington, VT 05401
Telephone: (802) 865-7188

William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Garret King, Associate Planner
Joseph Cava, Permit Technician
Collin Miller, Code Compliance Officer
vacant, DPI Administrator



TO: Development Review Board
FROM: Scott Gustin
DATE: September 2, 2025
RE: ZP-25-313; 147 South Cove Road

=====

Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: RL Ward: 5S

Owner/Applicant: Paul Rosenfeld

Request: Construct new single family home on existing vacant lot.

Applicable Regulations:

Article 3 (Applications, Permits, & Project Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking)

Background Information:

The applicant is seeking approval to construct a new single family home, garage, and related site improvements on a vacant lakeshore parcel. The lot previously contained a single family home that was demolished in 2018 and more recently contained a temporary modular home that was removed about a year ago. Due to prior construction on the lot, relatively little site disturbance is entailed in this application for a new home.

The Conservation Board reviewed this application August 4, 2025. The Board recommended approval of the project with the recommendation that tree retention be clarified on the site plans. Only native plantings in the low mow zone, and no invasive plants installed onsite. Remove buckthorn and replace with native trees or shrubs.

The Design Advisory Board reviewed this application on August 26, 2025 and recommended approval with the following conditions:

1. Stormwater management plans are needed, subject to Water Resources review and approval.
2. Revised project plans addressing the following are needed:
 - a. A front walkway connecting to the public street;
 - b. Adjustment of the driveway and turn-around that differentiates the turn-around with a material different than that of the driveway;
 - c. A landscaping plan is needed and must include species, locations, and size at the time of planting;
 - d. Lumen information for the exterior sconce fixtures; and,
 - e. Street-side screening of the heat pumps.

Except for changes to the driveway turn-around, revised plans to address the DAB's recommendation have not yet been provided.

Previous zoning actions for this property are noted below.

- 8/14/24, Removal of modular home
- 11/13/18, Installation of helical piers
- 11/7/18, Installation of temporary modular home
- 4/4/18, Demolition of single family home

Recommendation: **Certificate of Appropriateness approval** as per, and subject to, the following findings and conditions:

I. Findings

Article 3: Applications, Permits, & Project Reviews

Sec. 3.3.1, Applicability:

Impact fees may be due upon completion of the new single family home. Water and wastewater impact fees are determined by estimated flows. Transportation impact fees are determined by estimated peak hour trip ends. Applicability of impact fees is determined by the city's Water Resources Division and Department of Public Works. **(Affirmative finding as conditioned)**

Article 4: Maps & Districts

Sec. 4.4.5, Residential Districts:

(a) Purpose

(1) Residential Low Intensity (RL)

This district is intended for relatively low density residential development that includes a mix of housing types, generally including single family homes through quadplexes. The proposed single family residence is consistent with this intent. **(Affirmative finding)**

(b) Dimensional Standards

The subject property has ~108' of road frontage. It will not change, and the minimum required is 30.'

The front yard setback is ~45' and reflects the average setbacks of neighboring properties. The maximum required setback is 20.' The site plan notes a 25' front yard setback line that does not appear to be based on anything and should be corrected. The northerly side yard setback scales to ~11,' and the southerly side yard setback scales to ~20.' Both comply with the 10% minimum side yard setback standard. The waterfront setback is ~68.' This encroaches into the 75' waterfront setback; however, the site plans note a 60' waterfront setback boundary that may reflect the average waterfront setback of neighboring properties or retention of nonconformity of the prior home. Confirmation is needed.

Lot coverage will increase to ~16% and remains below the maximum permissible 45%.

The proposed home will be ~ 27' tall to the midpoint of the roof rise and is below the 35' height limit.

The maximum permissible number of dwelling units in the home is 4. Just 1 dwelling unit is included in this proposal.

The footprint of the principal structure will be 1,501 sf and is below the maximum permissible 1,800 sf. **(Affirmative finding as conditioned)**

(c) Permitted & Conditional Uses

The single family home is a permitted use in the RL district and is a continuation of the prior use of the property. **(Affirmative finding)**

(d) District Specific Regulations

1. Additional Residential Development Permitted
(Not applicable)

2. Exceptions to Dimensional Standards
(Not applicable)

3. Exception for Neighborhood Commercial Uses
(Not applicable)

4. Miscellaneous Standards
(Not applicable)

Article 5: Citywide General Regulations

Sec. 5.2.3, Lot Coverage Requirements

No lot coverage exceptions are sought. **(Not applicable)**

Sec. 5.2.5, Setbacks

No setback encroachments are sought under this criterion. **(Not applicable)**

Sec. 5.2.6, Building Height Limits

No exceptions to height limits are sought. **(Not applicable)**

Sec. 5.5.1, Nuisance Regulations

Nothing in the application appears to constitute a nuisance under this criterion. **(Affirmative finding)**

Sec. 5.5.2, Outdoor Lighting

Outdoor lighting fixture specifications have been provided, and locations are depicted on the project plans. Sconce fixtures will be located by exterior entries, and recessed canister fixtures will be installed within the breezeway. Lumen information is acceptable for the canister fixtures; however, it is lacking for the sconces. Lumen information for the sconce fixtures is needed in order to determine compliance. **(Affirmative finding as conditioned)**

Sec. 5.5.3, Stormwater and Erosion Control

An erosion prevention and sediment control plan has been provided and is subject to review and approval by the city's Water Resources Division. Post construction stormwater management plans will need to be addressed via the standards for duplex and single family properties totaling 2,500 sf

or more impervious surface. Such plans will be subject to review and approval by the city's Water Resources Division. **(Affirmative finding as conditioned)**

Article 6: Development Review Standards

Part 1, Land Division Design Standards

Not applicable.

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(a) Protection of important natural features

The subject property is located along the Lake Champlain shoreline south of Oakledge Park. The shoreline is an identified significant natural area. Much of the property is affected by the Natural Resource Protection Overlay District, specifically the riparian and littoral conservation zone, which stretches inland 250' from the 95.5' lakeshore elevation. A new low-mow area will be established along the property's lakefront as required. No work will take place within the flood zone. As recommended by the Conservation Board, tree retention should be clarified on the site plans (some existing vegetation is within proposed topo lines). Only native plantings should be installed in the low mow zone, and no invasive plants should be installed onsite. Buckthorn may be removed and replaced with native trees or shrubs. **(Affirmative finding as conditioned)**

(b) Topographical alterations

Much of the lot slopes gently towards the lake. Some grading of the home site will be necessary; however, overall topographic alterations are minimal. No blasting is proposed. **(Affirmative finding)**

(c) Protection of important public views

Distant terminal views of Lake Champlain and the Adirondack mountains will remain essentially unchanged. There are no public views associated with this property. The proposed home is modest in scale, and most mature vegetation will be retained. Its construction will not adversely affect public views from the lake towards shore. **(Affirmative finding)**

(d) Protection of important cultural resources

The property contains no known archaeological resources. Much of the lakeshore is archaeologically sensitive. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance. Such discovery seems unlikely, given prior earthwork and construction on the property. **(Affirmative finding as conditioned)**

(e) Supporting the use of alternative energy

Project plans do not depict alternative energy devices; however, they do note conduit for PV. Solar energy utilization is encouraged and seemingly may be installed in the future. **(Affirmative finding)**

(f) Brownfield sites

The subject property is not an identified brownfield. **(Affirmative finding)**

(g) Provide for nature's events

See Sec. 5.5.3 for Stormwater management and erosion control.

The project plans depict a sheltered entry for the front entryway. **(Affirmative finding)**

(h) Building location and orientation

The location of the proposed home will be essentially the same as the prior homes on the property and similar to neighboring homes along the street. It will be set in the front half of the lot. The new home will have an open front entryway facing inland towards the front yard and public street.

As required, the garage is set slightly behind the front of the residence. **(Affirmative finding)**

(i) Vehicular access

The existing driveway will be reconstructed and reconfigured to serve the proposed home. Sight lines at the driveway's intersection with the road remain essentially unchanged. **(Affirmative finding)**

(j) Pedestrian access

This criterion requires that a pedestrian walkway be provided from the front door to the public sidewalk or street. There is no sidewalk on this side of South Cove Road; however, the road is public. A front walkway is not present in the site plans and must be included. Convenient access between the driveway and front entry is proposed. **(Affirmative finding)**

(k) Accessibility for the handicapped

No handicap accessibility is evident or required with this proposal. **(Not applicable)**

(l) Parking and circulation

Parking will be provided within the garage and the driveway. Parking spaces appear to be dimensionally compliant. Circulation and access is provided via the private driveway.

Residential driveways are limited to 18' in width. As proposed, the driveway generally complies with this limitation; however, a turn-around in front of the breezeway connecting the house to the garage results in a driveway width exceeding 18'. In several similar previous cases, the turn-around has been constructed of a different material than the driveway and has served a dual use such as part of the entry into the home or a basketball half court. Revised project plans depict a stone patio / turn-around. **(Affirmative finding)**

(m) Landscaping, fences, and retaining walls

The site plans depict existing vegetation to be retained and the required low-mow zone along the waterfront. The driveway and garage are configured in such a way as to retain an existing oak tree onsite. No proposed landscaping plan is evident and is required. At least species, placement, and size at the time of planting should be included. No fencing or retaining walls are proposed.

(Affirmative finding as conditioned)

(n) Public plazas and open space

No public plaza or open space is included or required in this proposal. **(Not applicable)**

(o) Outdoor lighting

See Sec. 5.5.2.

(p) Integrate infrastructure into the design

A bank of heat pumps will be located along the south side of the new home. While acceptably located on the side, screening is needed and can be accomplished with landscaping and/or a section of fencing. Utility lines will be buried. **(Affirmative finding as conditioned)**

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(a) Relate development to its environment

1. Massing, Height, and Scale

The proposed construction consists of the residence and garage with a center breezeway connecting the two. Massing is broken into several distinct components tied together with various architectural features. The scale of the home is similar to nearby properties on the street, and the height is modest at ~ 25' to the midpoint of the roof rise. **(Affirmative finding)**

2. Roofs and Rooflines

The residence will have a gable roof with eave end facing the street. The garage will have a simpler shed roof sloping up away from the street. This same roof line from the garage will extend across the breezeway and ground level of the residence, linking them all together.

(Affirmative finding)

3. Building Openings

Fenestration is basic and contributes to the clean and simple lines of the proposed residence. There are no blank walls, and ample natural light will penetrate the structure. Unsurprisingly, additional glazing on the west elevation will afford views across the lake. **(Affirmative finding)**

(b) Protection of important architectural resources

There are no historic structures on the vacant property. **(Not applicable)**

(c) Protection of important public views

See 6.2.2 (c) above.

(d) Provide an active and inviting street edge

The proposed home will be oriented towards South Cove Road, and its front entry is easily apparent from the street. The entry is under a breezeway between the home and the garage and provides an illuminated, sheltered entrance for residents and guests. As noted above, a front walkway connecting to the public street is needed. **(Affirmative finding)**

(e) Quality of materials

The new building will be clad in wooden shingles with treated wooden trim and accent elements. Standing seam roofing is proposed, and triple pane wood clad windows will be installed throughout. Wooden decking is proposed within the breezeway, deck, and porch areas. An outdoor shower will set atop a small stone patio area in back. The materials proposed are of acceptable quality and durability for this new construction. **(Affirmative finding)**

(f) Reduce energy utilization

The proposed building must comply with the current energy efficiency standards of Burlington and the State of Vermont. **(Affirmative finding as conditioned)**

(g) Make advertising features complimentary to the site

No advertising is included in this proposal. **(Not applicable)**

(h) Integrate infrastructure into the building design

Mechanical units are limited to the heat pumps noted above. **(Affirmative finding)**

(i) Make spaces safe and secure

The proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative finding)**

Article 8: Parking

Sec. 8.1.9, Maximum On-Site Parking Spaces

The property is located within the Neighborhood Parking District. Within that district, up to 3 parking spaces per dwelling unit are allowed. The garage contains two bays for two parking spaces. **(Affirmative finding)**

II. Conditions of Approval

1. **Prior to release of the zoning permit**, revised project plans addressing the following are needed, subject to staff review and approval:
 - a. A front walkway connecting to the public street;
 - b. The 25' front setback noted on the site plan shall be corrected to a 20' notation, and the basis for the proposed waterfront setback shall be clarified;
 - c. A landscaping plan is needed and must include species, locations, and size at the time of planting;
 - d. Within the landscaping plan, tree retention should be clarified, only native plantings should be installed in the low mow zone, and no invasive plants should be installed onsite. Buckthorn may be removed and replaced with native trees or shrubs;
 - e. Lumen information for the exterior sconce fixtures; and,
 - f. Street-side screening of the heat pumps shall be depicted on revised plans.
2. **Prior to release of the zoning permit**, stormwater management plans and erosion prevention and sediment control plans shall be submitted to the Water Resources Division, subject to their review and approval.
3. Impact fees may be due, as determined by the Water Resources Division and the Department of Public Works based on water and wastewater flows and peak hour trip ends, respectively.
4. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance.
5. All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.
6. Standard Conditions 1-15.

	A PRIMARY GRIDLINE		8'-0" AFF
GRIDLINES	A.1 SECONDARY GRIDLINE	CEILING HEIGHT	
	Name Elevation	ROOM NUMBER	MECHANICAL ROOM 1.1
LEVEL LINES			
	1 DETAIL NUMBER A101 SHEET NUMBER	DOOR NUMBER	1.1.1
EXTERIOR ELEVATION			
	1 DETAIL NUMBER A2.1 SHEET NUMBER	WINDOW NUMBER	01
INTERIOR ELEVATION			
	1 DETAIL NUMBER A3.1 SHEET NUMBER	WALL TYPE	W1
BUILDING SECTION			
	1 DETAIL NUMBER A5.1 SHEET NUMBER	MATERIAL TYPE	MT.01
WALL SECTION			
	1 DETAIL NUMBER A5.1 SHEET NUMBER		CW-01 CASEWORK EL-01 ELECTRICAL EQUIP. EF-01 ELECTRICAL FIXTURE WD-01 FLOOR FA-01 FIRE ALARM DEVICE FN-01 FURNITURE ME-01 MECHANICAL EQUIP. PL-01 PLUMBING FIXTURE RA-01 RAILING SP-01 SPRINKLER
DETAIL SECTION			
	1 DETAIL NUMBER A4.1 SHEET NUMBER		
CALLOUT PLAN/SECTION			
	REVISION CLOUD REVISION NUMBER	ITEM TYPE	
REVISION			
WORK POINT / ELEVATION TARGET			
CENTER LINE			15.22° 15.22°

&	And	CLO	Closet	E.W.C.	Electric Water Cooler	HORIZ	Horizontal	NO	Number	R.O.	Rough Opening	UNF	Unfinished
<	Angle	CLR	Clear	EXIST	Existing	HR	Hour	NCM	Nominal	RWD	Redwood	U.O.N.	Unless Otherwise
@	At	CMU	Concrete Masonry Unit	EXP	Expansion	HT	Height	N.T.S.	No Scale	S	South		Noted
⌀	Centerline	CNTR	Counter	EXPO	Exposed	HVAC	Heating, Ventilation and Air Conditioning		Nat to Scale	S.C.	Solid Core	UR	Urinal
⌀	Diameter or Round	COL	Column	EXT	Exterior		Hot Water	O/	Over	SCHED	Schedule		
⌀	Perpendicular	CONC	Concrete	F.A.	Fire Alarm	H.W.	Inside Diameter	OA	Overall	SECT	Section	VERT	Vertical
#	Number	CONN	Connection	F.B.O.	Furnished By Owner	I.D.	Including	OBSC	Obscure	SEP	Separation	VEST	Vestibule
(E)	Existing	CONST	Construction	F.D.	Floor Drain	INSUL	Insulation	O.C.	On Center	SH	Shelf	V.I.F.	Verify in Field
		CONT	Continuous	F.E.	Fire Extinguisher	INT	Interior	O.D.	Outside Diameter	SHR	Shower	VOL	Volume
AB	Anchor Bolt	CONTR	Contractor	F.E.C.	Fire Extinguisher Cab		Floor	O.F.D.	Overflow Drain	SHT	Sheet		
A.C	Air Conditioning	CORR	Corridor	F.F.R.	Fire Extinguisher		FLR	OFF	Office	SIM	Similar	W	West
A.C.	Asphaltic Concrete	C.T.	Ceramic Tile	F.G.	Finish Grade	JAN	Janitor	O.H.	Overhang	SLDG	Siding	W/	With
ACT	Acoustical Tile	CTR	Center	F.H.C.	Fire Hose Cabinet	JST	Joist	OVHD	Overhead	SPEC	Specification	W.H.	Water Heater
ACOUS	Acoustical	CTSK	Countersunk	FIN	Finish	JT	Joint	OPNG	Opening	SO	Square	W/O	Without
ADJ	Adjustable	C.W.	Cold Water	FLASH	Flashing		Kitchen	OPP	Opposite	S.S.	Stainless Steel	W.C.	Water Closet
A.F.F.	Above Finish Floor			FLR	Floor	KIT				SSK	Service Sink	WD	Wood
ALT	Alter or Alternate	D	Deep, Depth	FLUOR	Fluorescent					STD	Standard	WP	Waterproof
ALUM	Aluminum	DBL	Double	F.O.C.	Face of Concrete	LAM	Laminate	PC	Piece	STL	Steel	WPM	Waterproof Membrane
ANOD	Anodized	DET	Detail	F.O.F.	Face of Finish	LAV	Lavatory	P.D.	Planter Drain	STOR	Storage		
A.P.	Access Panel	D.F.	Drinking Fountain	F.O.M.	Face of Masonry	L.F.	Lineal Foot	PL	Plate	STRUCT	Structural	WSCT	Wainscot
APPROX	Approximate	DIA	Diameter	F.O.S.	Face of Stud	L.H.	Left Hand	P.L.	Property Line	SUSP	Suspended	W.S.P.	Wet Standpipe
ARCH	Architectural	DIM	Dimension	FPFR	Fireproof	LKR	Locker	PLUM	Plumbing	SYM	Symmetrical	WT	Weight
ASPH	Asphalt	DISP	Dispenser	FR	Frame	L.R.	Living Room	PLAM	Plastic Laminate	SYS	System		
		DN	Down	FS	Full Size	LT	Light	PLAS	Plaster				
		D.O.	Door Opening	FT	Foot, Feet	LVR	Louver	PLYWD	Plywood				
		DR	Door	FTG	Footing			PR	Pair				
BD	Board	DS	Downspout	FURR	Furring, Furred	MATL	Material	PT	Paint	T	Tread		
BITUM	Bituminous	D.S.P.	Dry Standpipe	FUT	Future	MAX	Maximum	P.T.D.	Paper Towel Dispenser	T.B.	Towel Bar		
BLDG	Building	DWG	Drawing			M.B.	Machine Ball	PTN	Partition	T&G	Tongue and Groove		
BLK	Block			GA	Gauge	MECH	Mechanical	Q.T.	Quarry Tile	T.O.C.	Top of Curb		
BLKG	Blocking	DWR	Drawer	GALV	Galvanized	MEMB	Membrane			T.O.D.	Top of Drain		
BM	Beam			G.B.	Grab Bar	MET	Metal			TEL	Telephone		
BOT	Bottom	E	East	G.I.	Galvanized Iron	MFR	Manufacture	R	Riser	TEMP	Tempered, Temperature		
BR	Bedroom	EA	Each	GL	Glass, Glazing	MH	Manhole	RAD	Radius	TER	Terrazzo		
BSMT	Basement	EJ	Expansion Joint	GNL	Ground	MN	Minimum	R.D.	Roof Drain	THK	Thick, Thickness		
B.U.R.	Built Up Roofing	ELEC	Electrical	GR	Grade	MIR	Mirror	REF	Reference	THR	Threshold		
		ELEV	Elevation	GYP	Gypsum	MISC	Miscellaneous	REFR	Refrigerator	TOIL	Toilet		
CAB	Cabinet	EMER	Emergency			M.O.	Masonry Opening	REINF	Reinforced or Reinforcing	T.O.P.	Top of Pavement		
CARP	Carpet	ENCL	Enclosure	H	High	M.R.	Moisture Resistant	REQ	Required	T.O.S.	Top of Slab		
C.B.	Catch Basin	E.O.S.	Edge of Slab	H.B.	Hose Bib	MTD	Mounted	RESIL	Resilient	T.P.D.	Toilet Paper Dispenser		
CEM	Cement	EQU	Equipment	H.C.	Hollow Core	MUL	Mullion	REV	Revised	T.S.	Top of Steel		
CER	Ceramic	E.W.	Each Way	HOP	Handicapped			RFG	Roofing	TV	Television		
C.I.R	Center In Room			HDWR	Hardware	N	North	R.H.	Right Hand	T.O.W.	Top of Wall		
CLG	Ceiling			H.M.	Hollow Metal	N.I.C.	Not in Contract	RM	Room	TYP	Typical		

9 ABBREVIATIONS

NEW SINGLE FAMILY RESIDENCE ON OWNER PROPERTY	
SITE INFO	
ADDRESS	147 S. Cove Rd. Burlington, VT 05401
COUNTY	Chittenden
TAX MAP	Chittenden
LOT SIZE	0.58 AC = 25,264.8 SF
BLDG LOT COVERAGE	PROPOSED 12.34%, MAX 45%
UTILITIES	
ELECTRIC	Tie to Town's Elec.
SEWER/SEPTIC	Tie to Town's Sewer
WATER	Tie to Town's Water
BUILDING INFO	
BUILDING HEIGHT	30' - 4"
STORIES	2 + Mechanical Attic
BEDROOMS	4
BATHROOMS	3 1/2
AREA CALCULATIONS:	GROSS SF(Outside of Siding)
FIRST FLOOR	1501.42 SF
SECOND FLOOR	947.32 SF
TOTAL GROSS SF	
GARAGE	578 SF
BREEZEWAY	214.08 SF
SCREENED PORCH	348.27 SF
OUTDOOR DECK	353.01 SF

8 PROJECT INFORMATION

BUILDING AUTHORITY	CITY OF BURLINGTON, VT - Phone: 802-863-0442
BUILDING CODE	IBC/IRC 2015
ZONING	RESIDENTIAL LOW DENSITY (RL)
HEIGHT LIMIT	35'
SETBACKS	
FRONT	25' MAX
REAR	60' FROM 100' ELEVATION CONTOUR
SIDE	10.8' - 10% LOT WIDTH
OVERLAY DISTRICTS	• RIPARIAN AND LITTORAL CONSERVATION ZONE • STEEP SLOPE • DESIGN REVIEW

7 COMPLIANCE

STRUCTURAL ENGINEER:	GENERAL CONTRACTOR:
ALBERT PUTNAM ASSOCIATES, LLC STRUCTURAL ENGINEERS 183 PARK ROW BRUNSWICK, ME 04011 (207) 729-6230	

6 CONSULTANTS

CONSTRUCTION	TYPICAL PASSIVE HOUSE ASSEMBLY	R-VALUE
FOUNDATION & SLAB	◦ 4" POURED CONCRETE SLAB ◦ 8" CRUSHED STONE ◦ 6" EPS SUB-SLAB INSULATION (R-4.1/in) ◦ 8" POURED CONCRETE STEM WALLS ◦ 6" VERTICAL INSULATION (R-4.1/in)	R-24.5
	◦ 5/8" GYPSUM WALL BOARD ◦ 2X8 LOAD BEARING WALL @ 24 O.C. w/ 5-1/2" DENSEPACK INSULATION (R-3.6/in) ◦ 1/2" CDX OR ZIP SHEATHING (Air Barrier) ◦ 2X8 NON-LOAD BEARING WALL @ 16 O.C. w/ 7-1/4" HEMP BATT INSULATION (R-3.6/in) ◦ WATER RESISTIVE BARRIER ◦ 1X3 STRAPPING/RAINSCREEN PER SIDING ◦ SIDING AS SCHEDULED	R-48
2ND FLOOR (If Applicable)	◦ FINISHED FLOOR AS SCHEDULED ◦ 3/4" ADVANTECH SUB-FLOOR ◦ STRUCTURAL JOISTS PER ENGINEER w/ SOUND INSULATION ◦ 5/8" GYPSUM WALL BOARD	
ROOF	◦ METAL ROOF AS SPECIFIED ◦ 5/8" ROOF SHEATHING + UNDERLAYMENT ◦ 2X3 STRAPPING ◦ VAPOR PERMEABLE WRB ◦ 16" ROOF PANEL w/ 16" BLOWN-IN CELLULOSE INSULATION (R-3.6/in) ◦ CLASS 1 VAPOR RETARDER/AIR BARRIER ◦ STRAPPING AS SPECIFIED	R-61
WINDOWS	UNILUX II MODERLINE SERIES ALUMINUM CLAD WOOD TRIPLE GLAZED WINDOWS/DOORS	U-VALUE: 0.176 SHGC: .52
ENERGY PERFORMANCE TARGET		
PASSIVE HOUSE CERTIFIED MINIMUM AIR TIGHTNESS OF 0.06 ACH@50pa		
iCFA (I.F. of GWB)	L1: 1.278 SF	L2: 774 SF
TOTAL ENVELOPE SURF: AREA TO O.F. of THERMAL BOUNDARY	6,532 SF	
GROSS VOLUME TO OUTSIDE FACE OF THERMAL BOUNDARY	31,808 SF	

5 ASSEMBLIES / PERFORMANCE

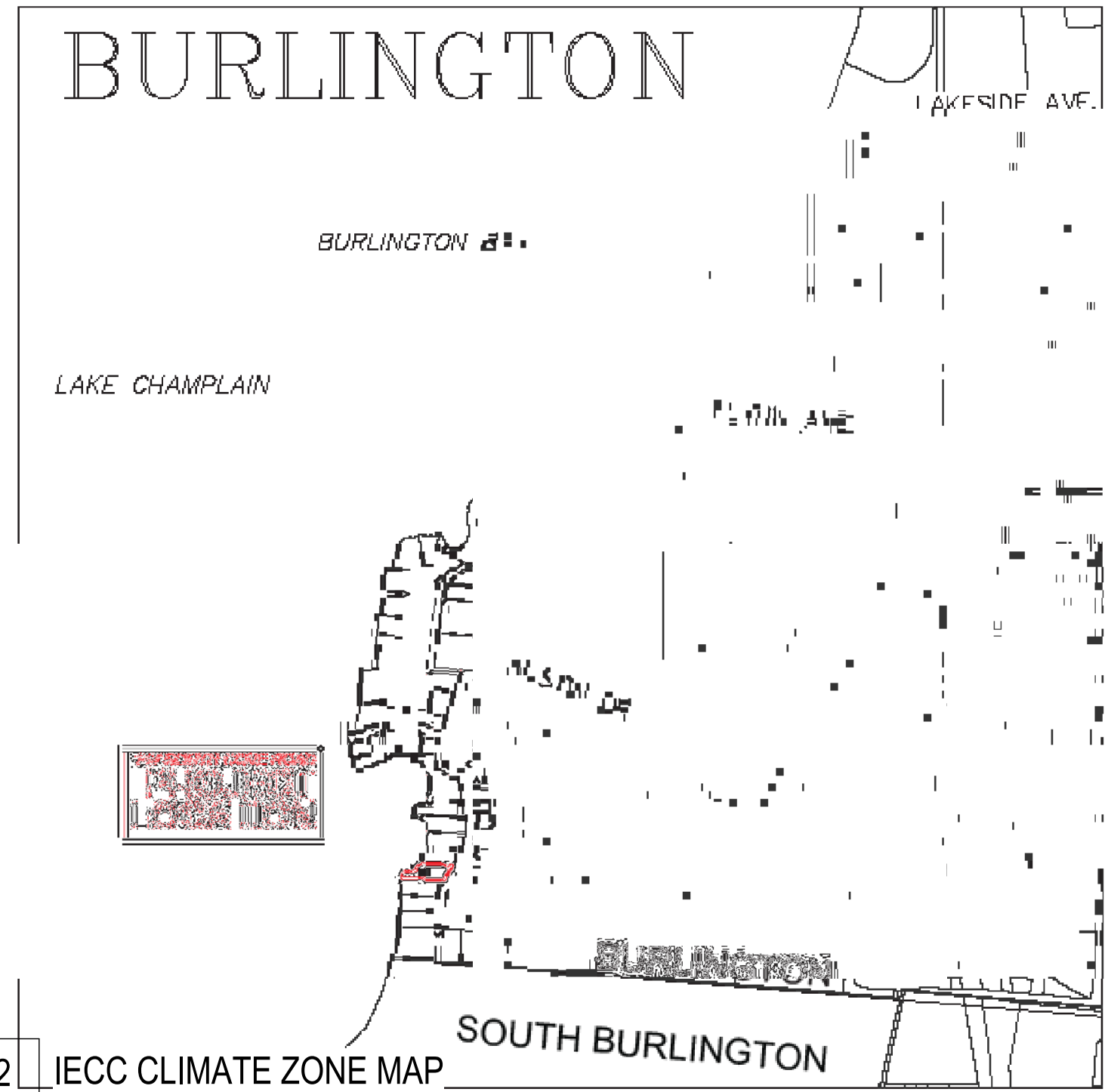
ALL CONSTRUCTION TO ADHERE TO APPLICABLE LOCAL BUILDING CODE OR INTERNATIONAL BUILDING CODE 2021
ALL PLUMBING TO ADHERE TO INTERNATIONAL BUILDING CODE 2021 AND/OR EQUIVALENT JURISDICTIONAL GOVERNING CODE
ALL ELECTRICAL WORK TO ADHERE TO LOCAL JURISDICTIONAL GOVERNING CODE
ALL MECHANICAL WORK TO ADHERE TO LOCAL JURISDICTIONAL GOVERNING CODE
UPON NOTIFICATION FROM THE ARCHITECT OF LOCAL BUILDING DEPARTMENT APPROVAL, UNLESS OTHERWISE AGREED UPON, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND MAINTAIN ALL BUILDING, PLUMBING, AND ELECTRICAL PERMITS
THE CONTRACTOR SHALL MAINTAIN ACCESSIBILITY FOR INSPECTION BY THE LOCAL BUILDING OFFICIALS AS REQUIRED AT ALL TIMES; THE CONTRACTOR SHALL COORDINATE ROUTINE SITE INSPECTIONS AS PER THE GOVERNING BUILDING CODE WITH THE LOCAL MUNICIPALITY
THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE OWNER OF INSPECTIONS, SCHEDULED OR UNSCHEDULED
CONTRACTOR TO THOROUGHLY REVIEW THE CONTRACT DOCUMENTS AND SPECIFICATIONS FOR INCONSISTENCIES WITH SITE CONDITIONS. CONTRACTOR TO NOTIFY ARCHITECT IN WRITING AND REVIEW ANY INCONSISTENCIES WITH ARCHITECT PRIOR TO PROCEEDING WITH THE WORK
INCONSISTENCIES WITH SITE CONDITIONS DO NOT ABSOLVE THE CONTRACTOR OF THE OBLIGATION TO ADHERE TO THE CONTRACT DOCUMENTS, BOTH DRAWINGS AND SPECIFICATIONS
INCONSISTENCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS DO NOT ABSOLVE THE CONTRACTOR OF THE OBLIGATION TO ADHERE TO THE STANDARDS OUTLINED; ALL INCONSISTENCIES SHALL BE PRESENTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK
MEANS AND METHODS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE AGREED UPON WITH THE OWNER AND ARCHITECT
THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE SUPERVISION AND OVERSIGHT OF SITE OPERATION
CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL TEMPORARY BARRIERS AND GUARDS, AND ALL TEMPORARY SHORING AND BRACING AS REQUIRED BY ALL CITY AND STATE REGULATIONS
CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS DURING THE COURSE OF WORK
CONTRACTOR TO PROVIDE TEMPORARY POWER POLE AND METER FOR THE DURATION OF THE WORK; CONTRACTOR TO MAINTAIN TEMPORARY LIGHT AS REQUIRED FOR THE DURATION OF THE WORK
CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES
WHEN REQUIRED, THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN SAFE AND CODE COMPLIANT CONDITIONS FOR TENANTS OCCUPY THE SITE OR BUILDING DURING ANY PERIOD OF CONSTRUCTION; UNLESS AGREED UPON BY THE OWNER IN WRITING, CONSTRUCTION OF THE WORK SHALL NOT INHIBIT ACCESS TO OCCUPIED PORTIONS OF THE SITE OR BUILDING
THE OWNER SHALL MAINTAIN THE RIGHT TO ACCESS THE SITE AND BUILDING AS REQUIRED
CONTROLLED INSPECTIONS:
UNLESS AGREED UPON WITH THE CONTRACTOR THE OWNER SHALL HOLD THE CONTRACT WITH ALL TESTING AGENTS
IF AGREED UPON IN WRITING, THE CONTRACTOR SHOULD SCHEDULE ALL TESTING WITH THE TESTING AGENT DIRECTLY
FILL GRADATION
SOIL COMPACTION
CONCRETE (SLAB/MENTRANMENT)
CONCRETE (COMPACTION)
STRUCTURAL STABILITY (STRUCTURAL ENGINEER)
VENTILATION COMMISSIONING
FINAL INSPECTION (ARCHITECT)

4 GENERAL NOTES



3 PERSPECTIVE VIEW

DRAWING LIST - PERMITTING SET	
NUMBER	NAME
Architectural	
A0.0	TITLE SHEET
A0.1	SITE PLAN
A0.01	EPSC PLAN
A0.2	STAKING PLAN
A1.0	FOUNDATION PLAN
A1.1	FIRST FLOOR PLAN
A1.2	SECOND FLOOR PLAN
A1.3	REFLECTED CEILING PLAN - MAIN FLOOR
A1.4	REFLECTED CEILING PLAN - UPPER LEVELS
A1.5	ROOF PLAN
A2.1	ELEVATIONS
A2.2	ELEVATIONS
A3.1	SECTIONS
A3.2	SECTIONS
A4.1	ENLARGED PLANS AND INTERIOR ELEVATIONS
A4.2	ENLARGED PLANS AND INTERIOR ELEVATIONS
A4.3	ENLARGED PLANS AND INTERIOR ELEVATIONS
A5.1	INTERIOR DETAILS
A6.1	SCHEDULES
A6.2	OPENING SCHEDULES
A6.0	PERSPECTIVES
AE1.0	POWER AND COMMUNICATIONS PLANS
AE1.2	LIGHTING PLAN
AM1.0	MECHANICAL & VENTILATION PLAN



2 IECC CLIMATE ZONE MAP

GO Logic LLC
52 Little River Drive
Belfast, Maine 04915
207.338.1566
www.gologic.us

GO-LOGIC
DESIGN + CONSTRUCTION

Thornburgh Rosenfeld Residence
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Burlington, VT 05401

TITLE SHEET

REVISIONS:
No. Description Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

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

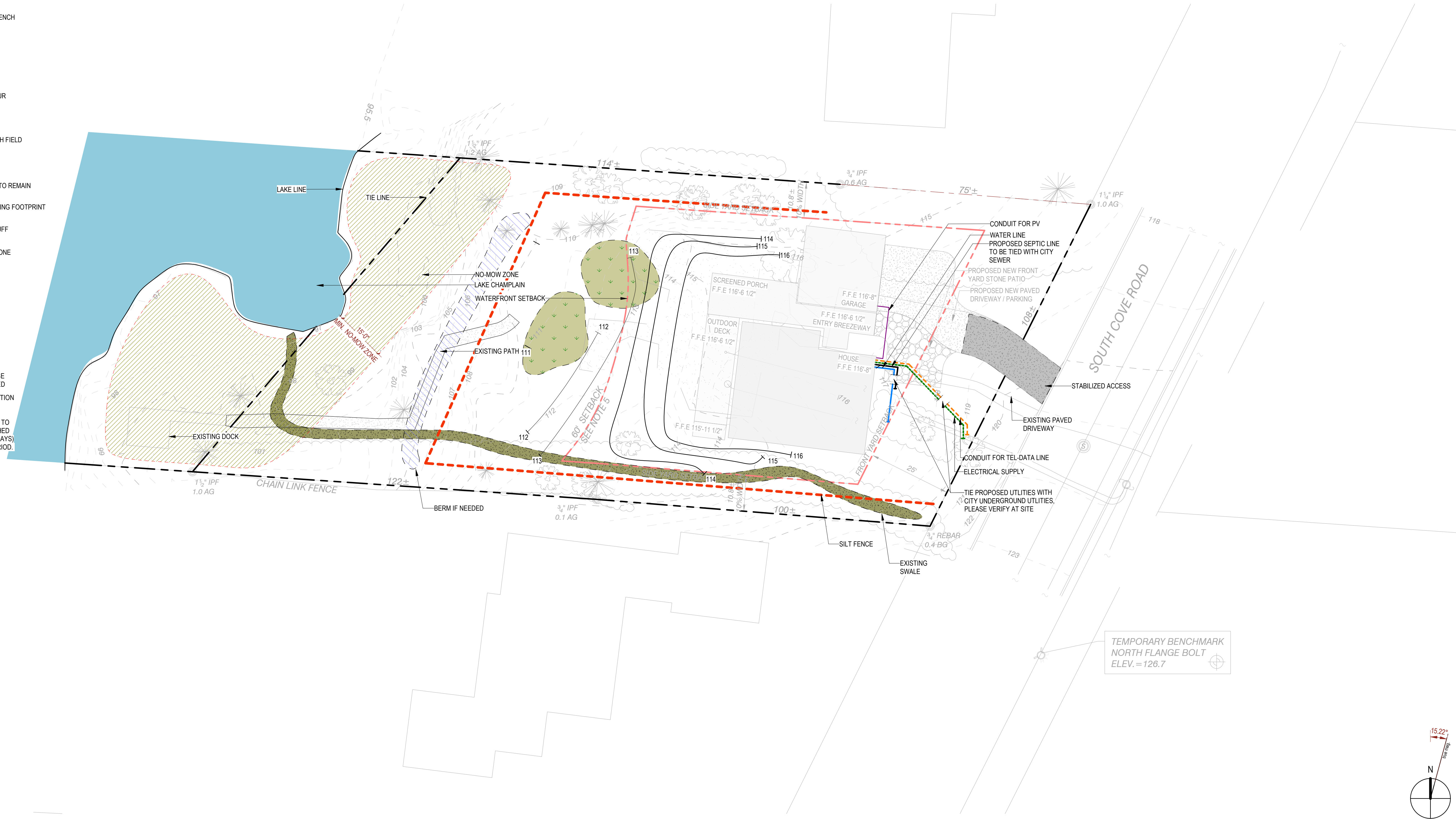
A0.0

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- EPSC PLAN LEGEND:
- CONCRETE WALL
 - PROPOSED NEW DRIVEWAY
 - EXISTING PATH
 - PROPOSED STONE PATH
 - PROPERTY LINE
 - SETBACK
 - EASEMENT
 - SUBSURFACE DRAINAGE
 - WATER SUPPLY
 - PHOTOVOLTAICS
 - ELECTRICAL SUPPLY - OVERHEAD
 - ELECTRICAL SUPPLY - UNDERGROUND
 - TEL-DATA - UNDERGROUND
 - EXISTING UTILITIES TRENCH
 - SEPTIC WASTE LINE
 - FENCE
 - NEW SITE CONTOUR
 - EXISTING SITE CONTOUR
 - TREELINE
 - EXISTING SEPTIC LEECH FIELD
 - BOND OUT
 - EXISTING BUILDINGS - TO REMAIN
 - PROPOSED NEW BUILDING FOOTPRINT
 - PROPOSED FOREST DUFF
 - PROPOSED NO-MOW ZONE
 - WATER

- EPSC STRATEGIES LEGEND:
- SILT FENCE
 - BERM IF NEEDED
 - EXISTING SWALES TO BE MAINTAINED VEGETATED
 - STABILIZED CONSTRUCTION ACCESS
 - STOCK PILE LOCATION, TO BE SEEDED AND MULCHED IF PLACED (WITHIN 14 DAYS) FOR AN EXTENDED PERIOD.

- SITE NOTES:
- MAP: TAX PARCEL ID: 059-1-038-000
LOT: 038, 0.58 AC
SURVEYOR: CIVIL ENGINEERING ASSOCIATES, INC. 10 Mansfield View Lane South Burlington, VT 05403 Phone: 802-864-2323
- ALL DIMENSIONS ARE TO FACE OF CONCRETE (F.O.C.), UNLESS OTHERWISE NOTED.
 - DO NOT SCALE FROM DRAWINGS.
 - ANY INCONSISTENCIES OR UNFORESEEN CONDITIONS TO BE REVIEWED BY THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL TEMPORARY BARRIERS AND GUARDS, AND ALL TEMPORARY SHORING AND BRACING IN COMPLIANCE WITH ALL STATE AND LOCAL REGULATIONS.
 - CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS DURING THE COURSE OF WORK.
 - CONTRACTOR TO PROVIDE TEMPORARY POWER POLE AND METER FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AS TO LEAST IMPACT NEIGHBORS AND AS DIRECTED BY STATE AND LOCAL REGULATIONS.
 - CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITY CONNECTIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY PROVIDERS AND OBTAIN ALL NECESSARY PERMITS TO CONNECT TO UTILITY SERVICES.
 - ALL UTILITY TRENCHING TO COMPLY WITH APPLICABLE CODE AND UTILITY PROVIDER STANDARDS.
 - CONTRACTOR TO PROVIDE AND MAINTAIN JOBSITE PROTECTION MEASURES DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO: DEWATERING, RUNOFF AND SEDIMENT CONTROL, AND EROSION CONTROL IN COMPLIANCE WITH STATE AND LOCAL REGULATIONS.
 - CONTRACTOR TO PREPARE TEST PITS AT ALL PROPOSED CORNER POINTS.
 - CONTRACTOR TO VERIFY FINAL SLAB



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EPSC PLAN

REVISIONS:		
No.	Description	Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

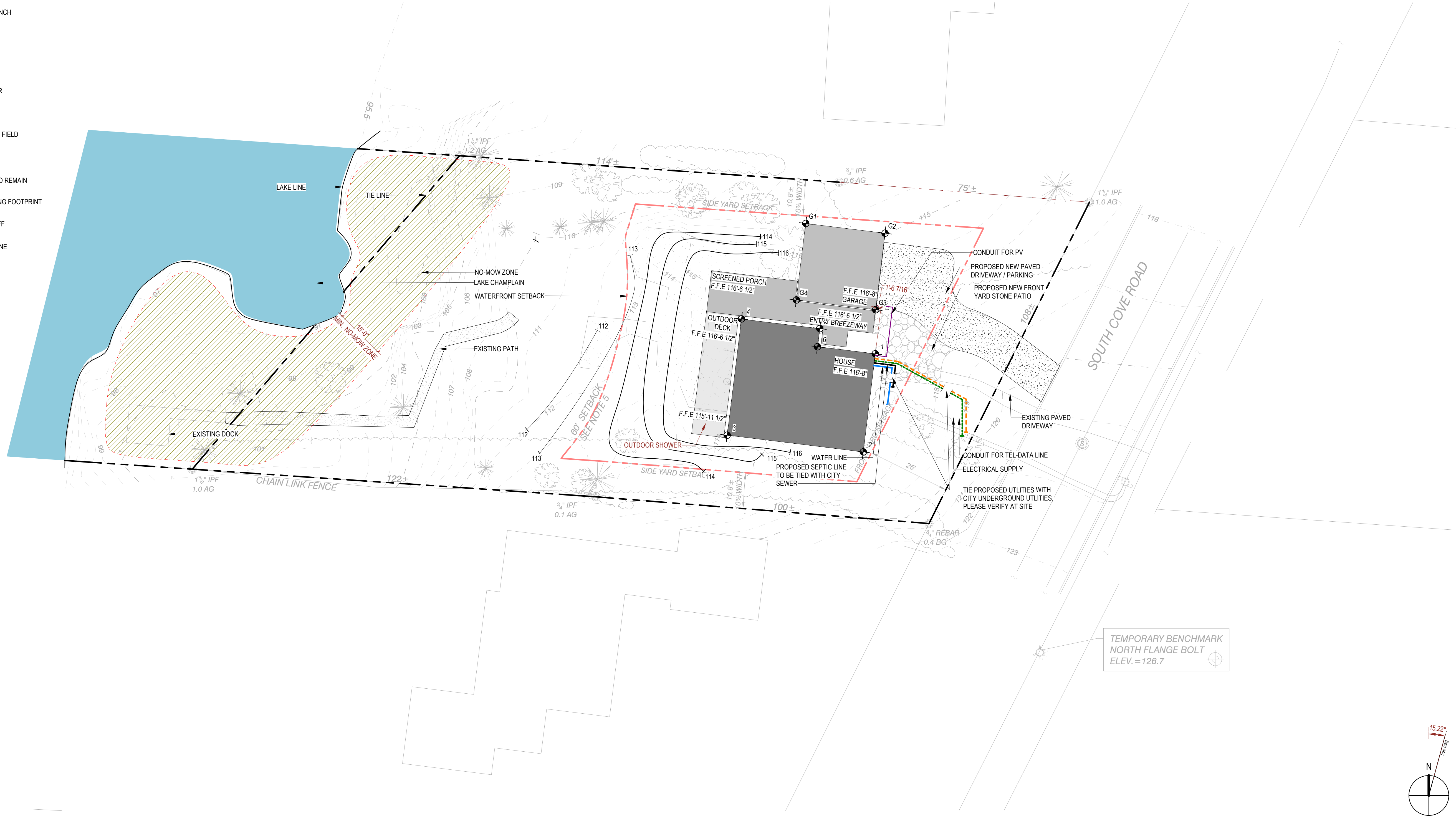
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A0.01

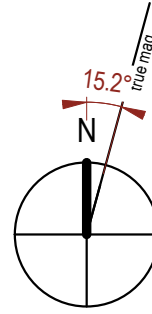
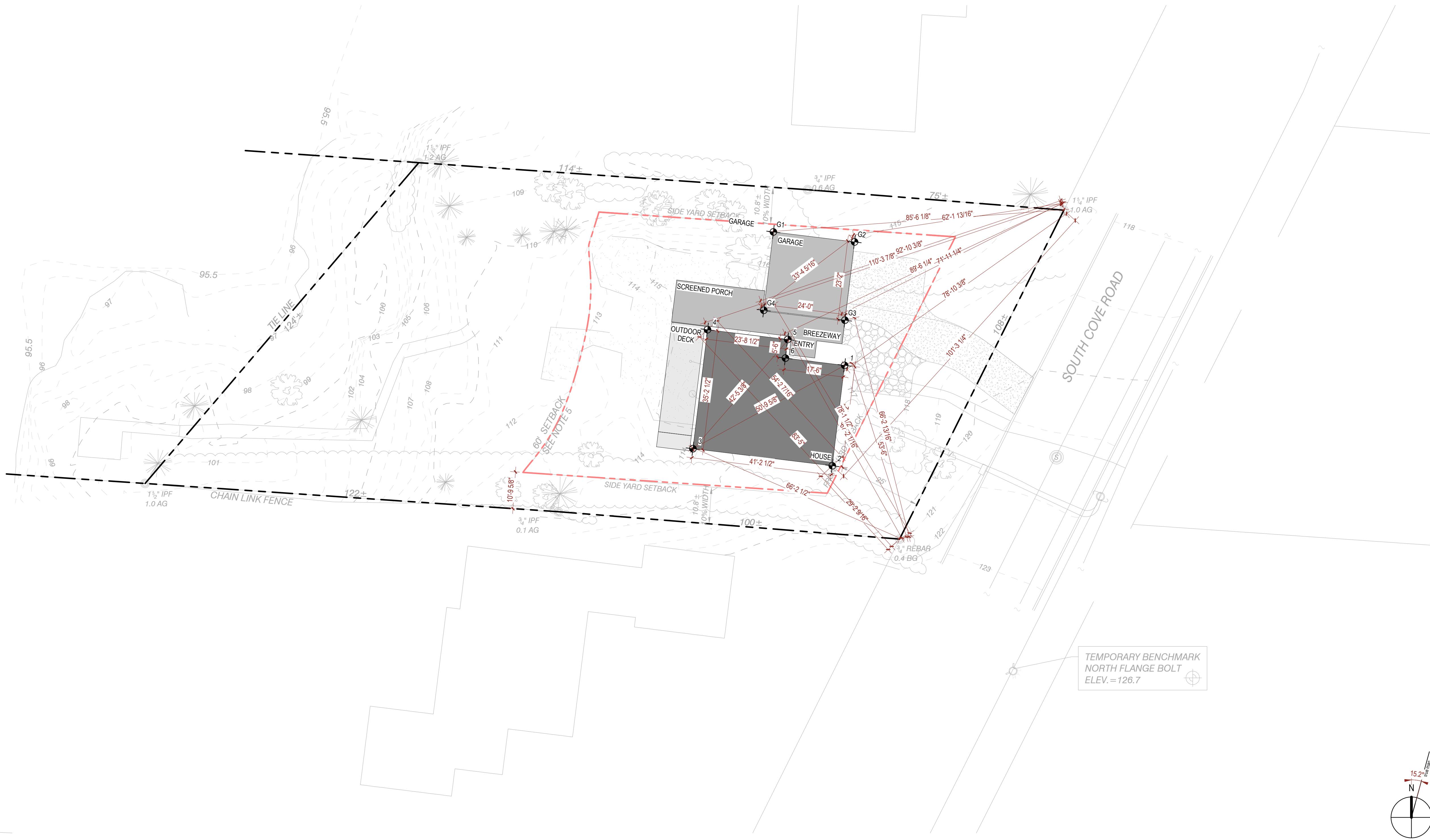
Page 10 of 139

- SITE PLAN LEGEND:**
- CONCRETE WALL
 - PROPOSED NEW DRIVEWAY
 - EXISTING PATH
 - PROPOSED STONE PATH
 - PROPERTY LINE
 - SETBACK
 - EASEMENT
 - SUBSURFACE DRAINAGE
 - WATER SUPPLY
 - PHOTOVOLTAICS
 - ELECTRICAL SUPPLY - OVERHEAD
 - ELECTRICAL SUPPLY - UNDERGROUND
 - TEL-DATA
 - EXISTING UTILITIES TRENCH
 - SEPTIC WASTE LINE
 - FENCE
 - NEW SITE CONTOUR
 - EXISTING SITE CONTOUR
 - TREELINE
 - EXISTING SEPTIC LEECH FIELD
 - BOND OUT
 - EXISTING BUILDINGS - TO REMAIN
 - PROPOSED NEW BUILDING FOOTPRINT
 - PROPOSED FOREST DUFF
 - PROPOSED NO-MOW ZONE
 - WATER

- SITE NOTES:**
- MAP: TAX PARCEL ID: 059-1-038-000
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 - CONTRACTOR TO PREPARE TEST PITS AT ALL PROPOSED CORNER POINTS.
 - CONTRACTOR TO VERIFY FINAL SLAB



NOT FOR CONSTRUCTION



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STAKING PLAN

REVISIONS:		
No.	Description	Date

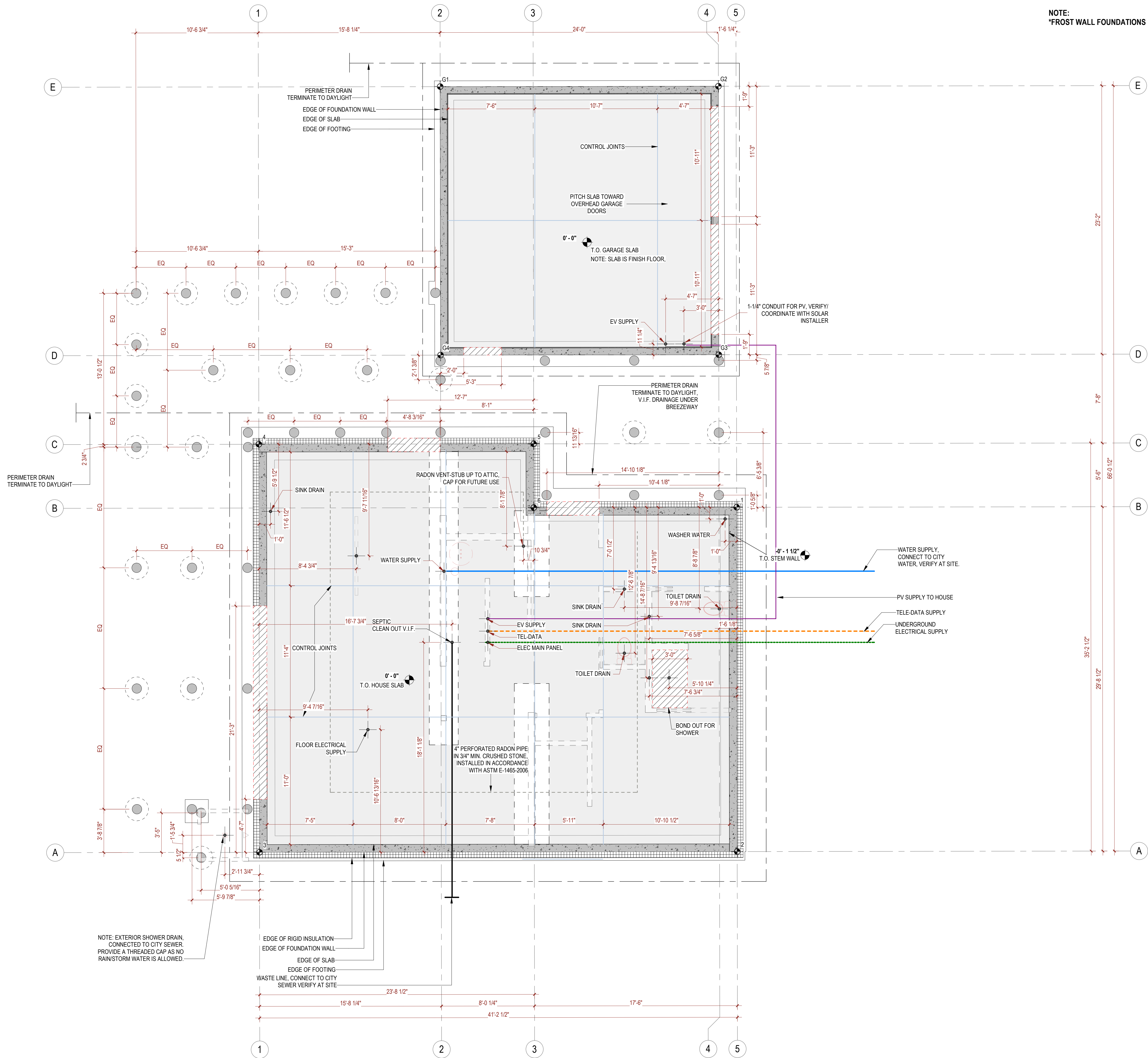
DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

SCALE: 1/16" = 1'-0"

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FOUNDATION PLAN LEGEND:

- CONCRETE WALL
- PROPOSED NEW DRIVEWAY
- EXISTING PATH
- PROPOSED STONE PATH
- PROPERTY LINE
- SETBACK
- EASEMENT
- SUBSURFACE DRAINAGE
- WATER SUPPLY
- PHOTOVOLTAICS
- ELECTRICAL SUPPLY - OVERHEAD
- ELECTRICAL SUPPLY - UNDERGROUND
- TEL-DATA
- EXISTING UTILITIES TRENCH
- SEPTIC WASTE LINE
- FENCE
- NEW SITE CONTOUR
- EXISTING SITE CONTOUR
- TREELINE
- EXISTING SEPTIC LEECH FIELD
- BOND OUT
- EXISTING BUILDINGS - TO REMAIN
- PROPOSED NEW BUILDING FOOTPRINT
- PROPOSED FOREST DUFF



NOTE:
*FROST WALL FOUNDATIONS FOR HOUSE AND GARAGE

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FOUNDATION PLAN

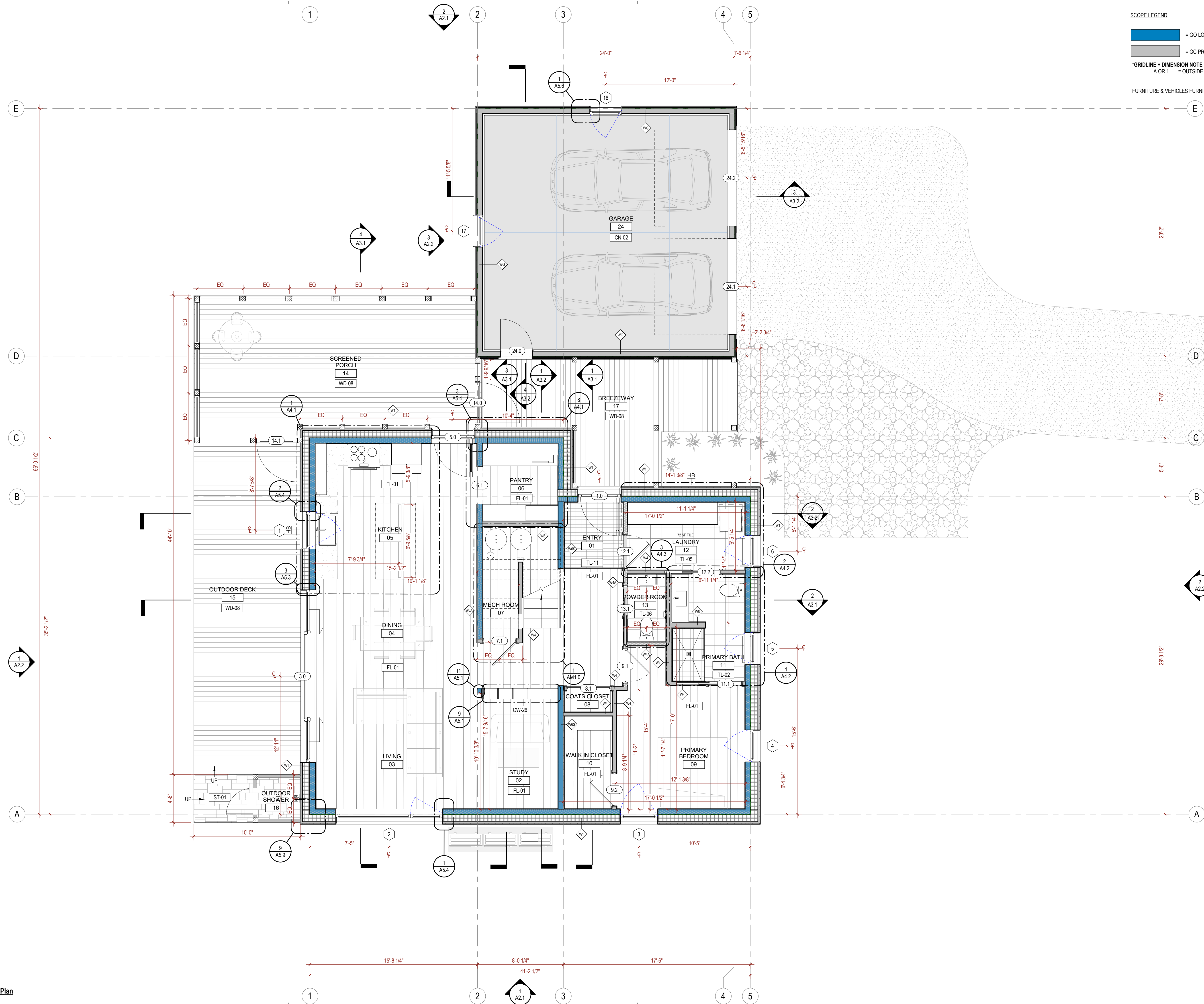
REVISIONS:

No. Description Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

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

A1.0



SCOPE LEGEND

- = GO LOGIC PROVIDED WALL, CEILING OR FLOOR
- = GC PROVIDED WALL, CEILING OR FLOOR

*GRIDLINE + DIMENSION NOTE (Unless Otherwise Noted):
A OR 1 = OUTSIDE FACE OF FOUNDATION

FURNITURE & VEHICLES FURNISHED BY OWNER

NOT FOR CONSTRUCTION

FIRST FLOOR PLAN

REVISIONS:

No. Description Date

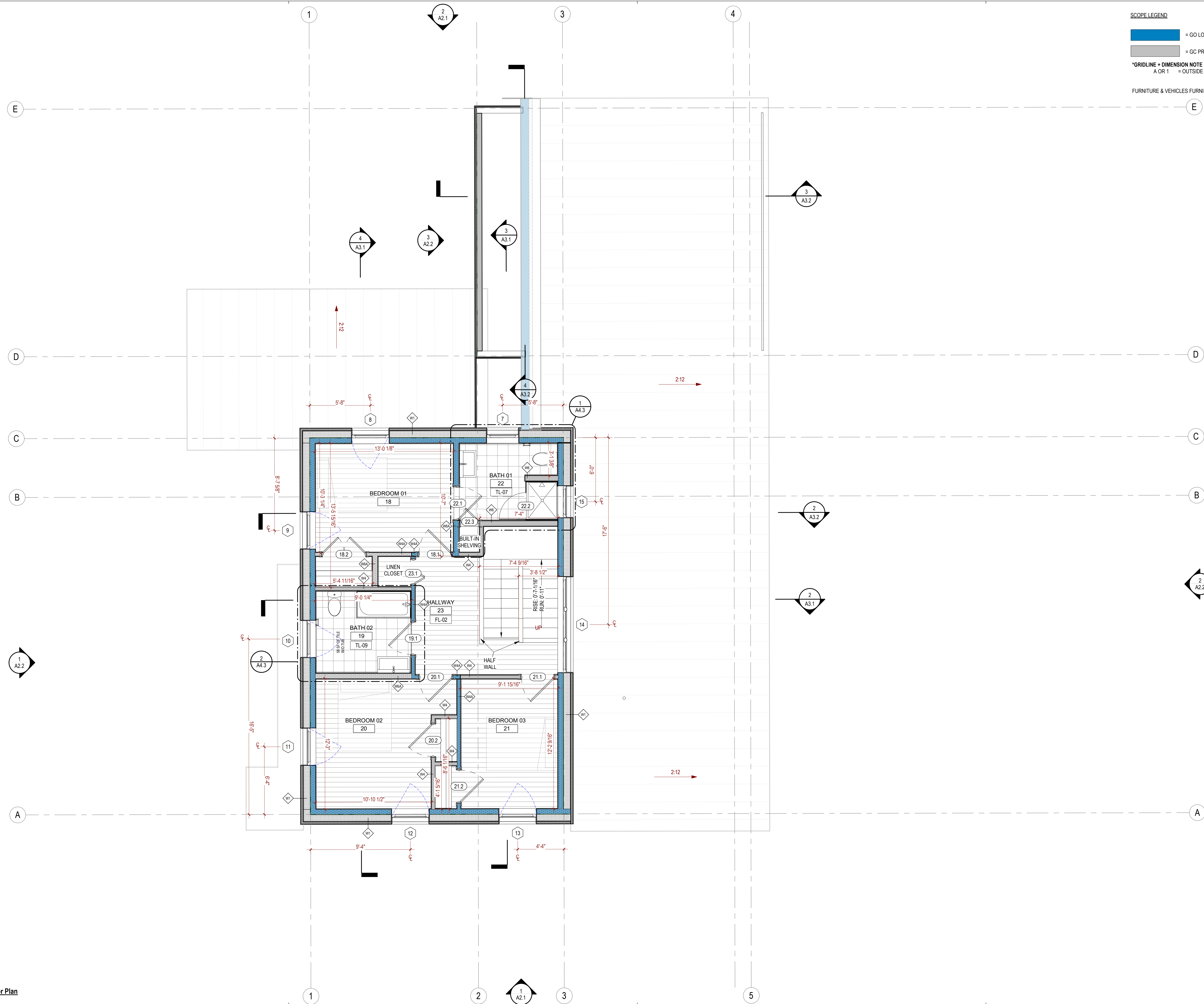
DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

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

A1.1

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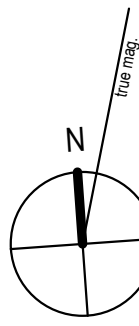
SCOPE LEGEND

- = GO LOGIC PROVIDED WALL, CEILING OR FLOOR
- = GC PROVIDED WALL, CEILING OR FLOOR

*GRIDLINE + DIMENSION NOTE (Unless Otherwise Noted):
A OR 1 = OUTSIDE FACE OF FOUNDATION

FURNITURE & VEHICLES FURNISHED BY OWNER

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SECOND FLOOR PLAN

REVISIONS:

No. Description Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
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SCALE: 1/4" = 1'-0"

A1.2

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	RECESSED DOWN LIGHT
	RECESSED DOWN LIGHT (Wet Location)
	RECESSED DIRECTIONAL DOWNLIGHT
	STRIP UTILITY LIGHT
	UNDER CABINET STRIP LIGHT
	PENDANT LIGHT
	SURFACE MOUNTED OVERHEAD LIGHT
	TRACK LIGHTING
	WALL SCONCE - INTERIOR OR EXTERIOR
	CEILING FAN WITH LIGHT
	CEILING FAN WITHOUT LIGHT
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	CEILING VENTILATION SUPPLY
	CEILING VENTILATION RETURN



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REFLECTED CEILING PLAN - MAIN FLOOR

REVISIONS:

No.	Description	Date
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DATE: 08/26/2025

ISSUE: PERMITTING SE
REV01

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

A1.3

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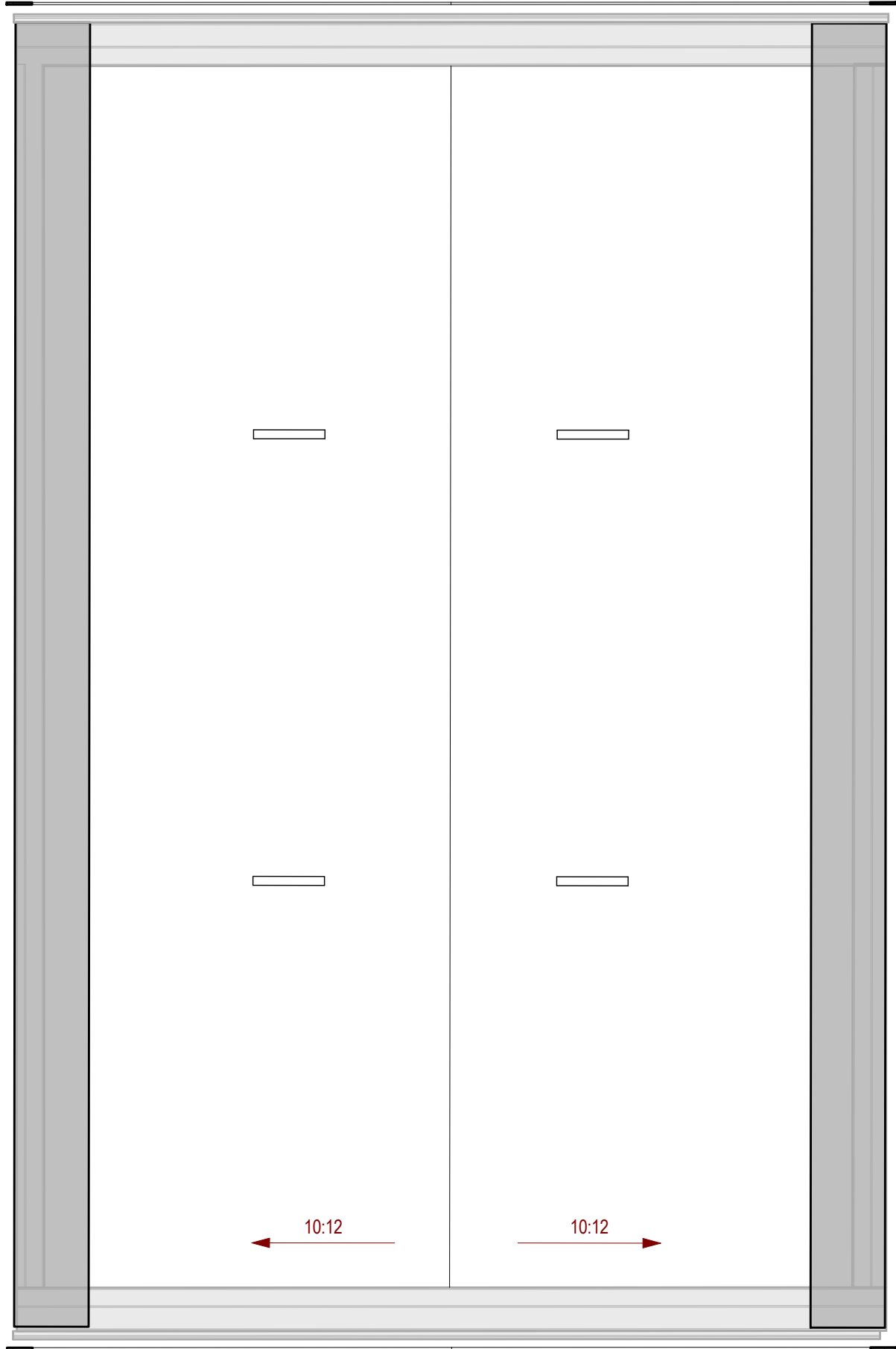
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207.338.1566
www.gologic.us



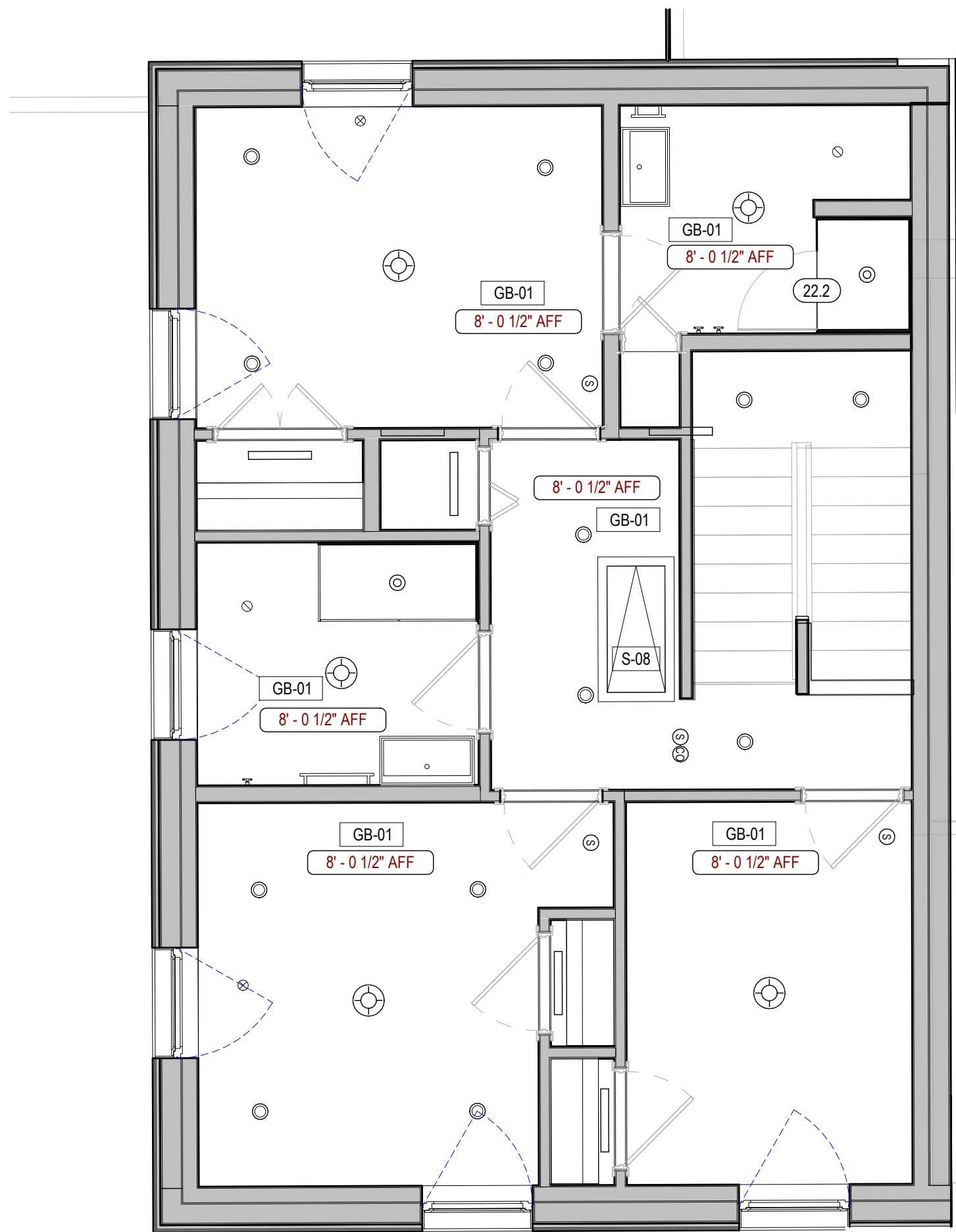
GO·LOGIC
DESIGN + CONSTRUCTION

2 Attic RCP
1/4" = 1'-0"

- REFLECTED CEILING PLAN LEGEND
- RECESSED DOWN LIGHT
 - ⊙ RECESSED DOWN LIGHT (Wet Location)
 - ◐ RECESSED DIRECTIONAL DOWNLIGHT
 - ▬ STRIP UTILITY LIGHT
 - - UNDER CABINET STRIP LIGHT
 - ⊕ PENDANT LIGHT
 - ⊙ SURFACE MOUNTED OVERHEAD LIGHT
 - TRACK LIGHTING
 - ⌞ WALL SCONCE - INTERIOR OR EXTERIOR
 - ⊕ CEILING FAN WITH LIGHT
 - ⊖ CEILING FAN WITHOUT LIGHT
 - ⊙ SMOKE DETECTOR
 - ⊙ CARBON MONOXIDE DETECTOR
 - ⊗ CEILING VENTILATION SUPPLY
 - CEILING VENTILATION RETURN



1 Upper Floor RCP
1/4" = 1'-0"



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REFLECTED CEILING PLAN - UPPER LEVELS

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No.	Description	Date

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

A1.4

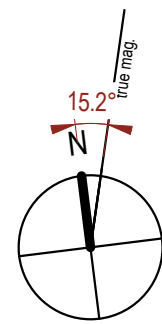
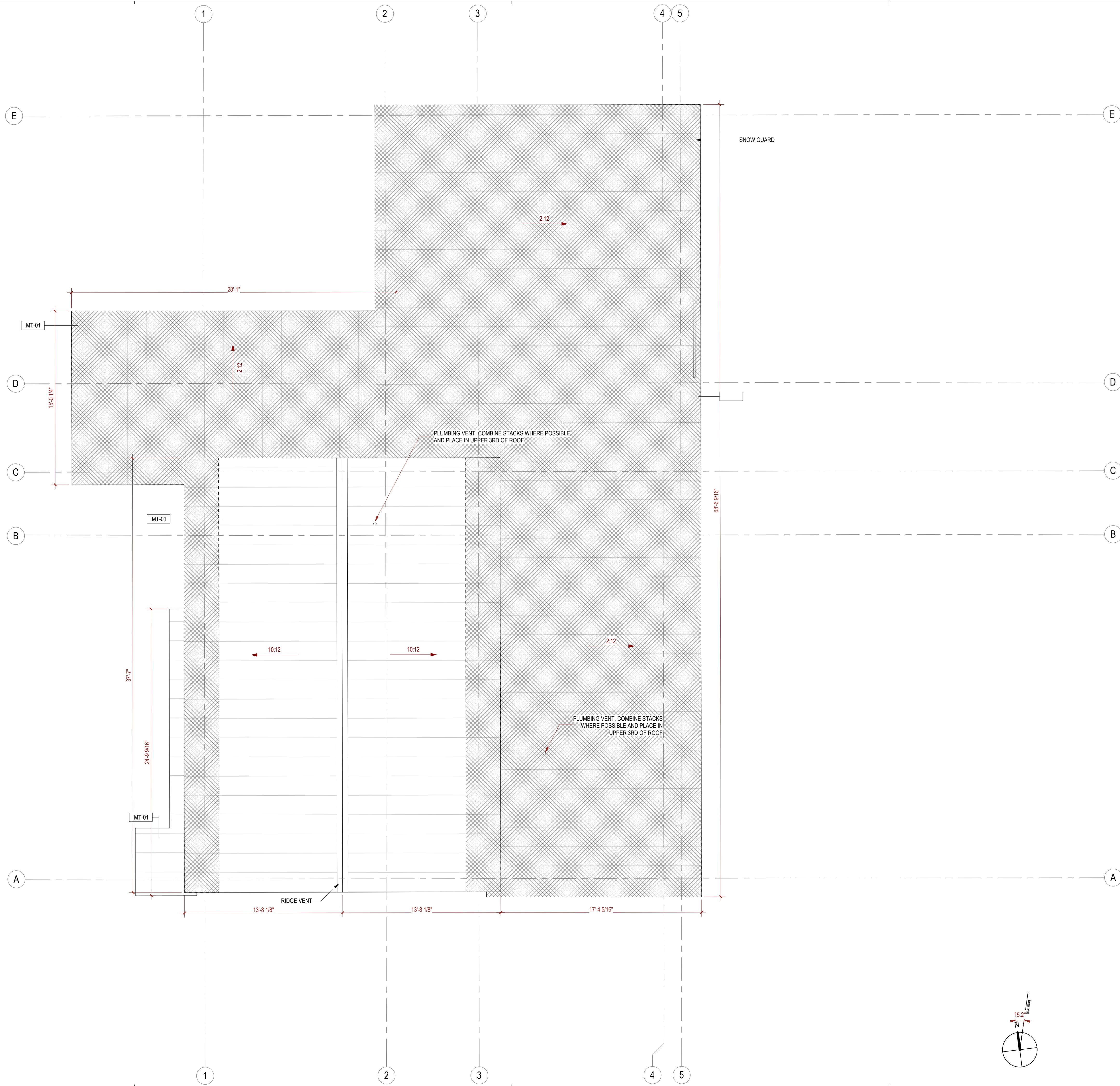
Page 17 of 139

ROOF LEGEND

- ADHESIVE-BACKED SHEET WATERPROOFING
- STANDING SEAM METAL ROOFING
- EPDM ROOFING

GENERAL NOTES

-ADHESIVE-BACKED SHEET WATERPROOFING IS TO BE INSTALLED AT ALL ROOF EAVES, FROM THE LOWEST EDGE OF THE ROOF, TO A POINT 24" INSIDE THE EXTERIOR WALL LINE. ALSO TO BE INSTALLED AT ALL VALLEY LOCATIONS.



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ROOF PLAN

REVISIONS:

No.	Description	Date
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DATE: 08/26/2025
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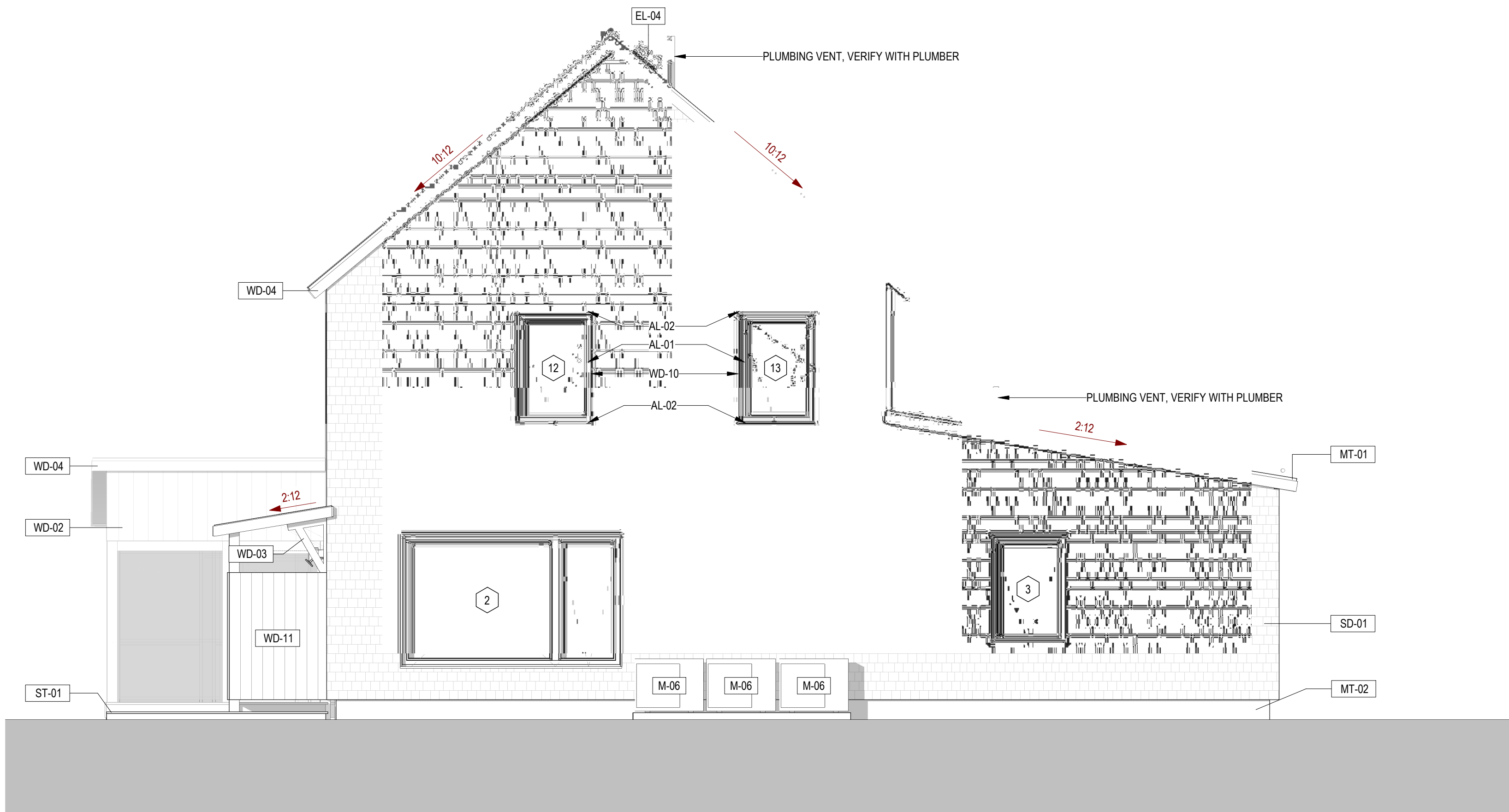
SCALE: 1/4" = 1'-0"

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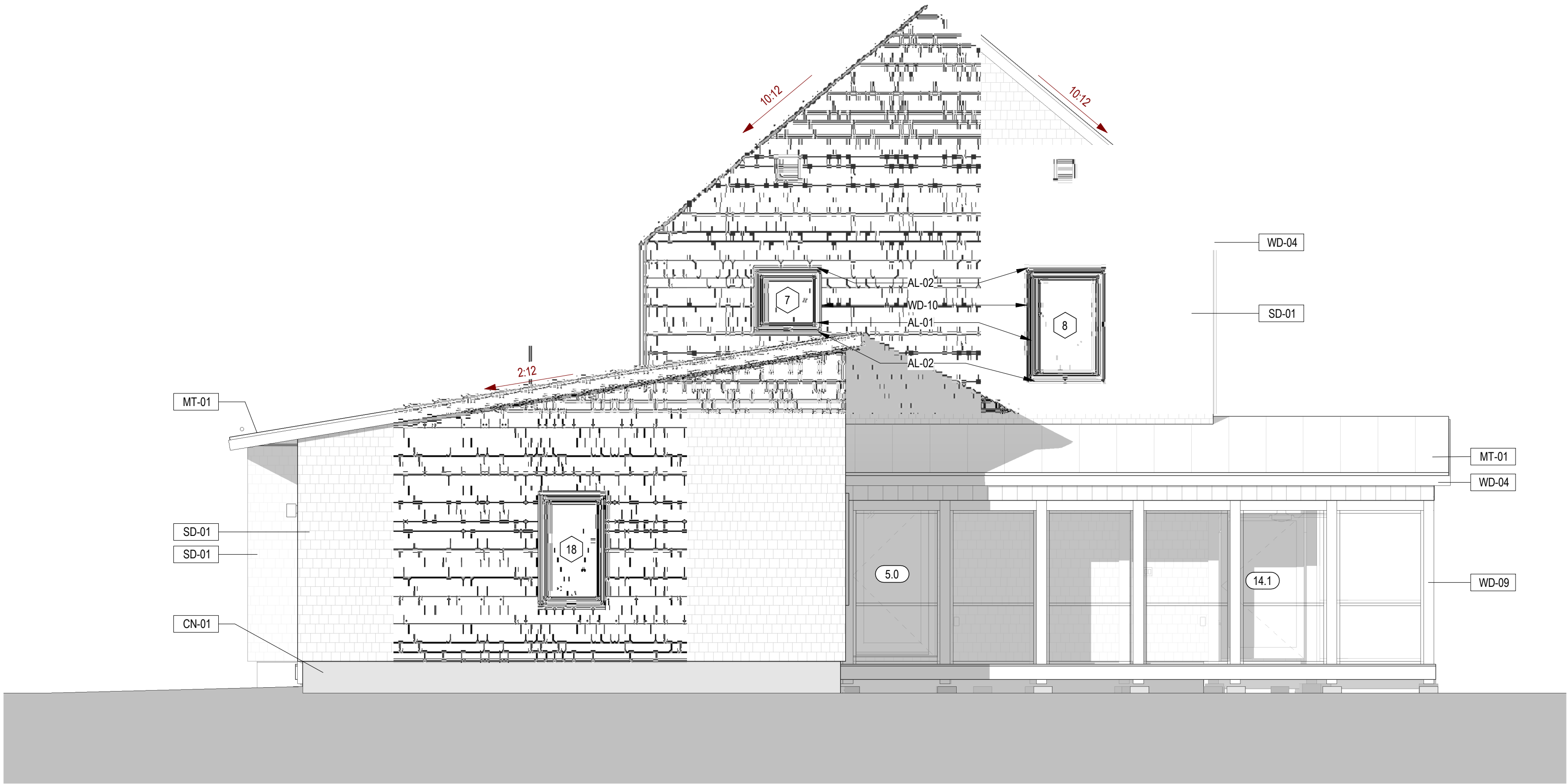


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1 House & Garage South Elevation
1/4" = 1'-0"



2 House & Garage North Elevation
1/4" = 1'-0"



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ELEVATIONS

REVISIONS:

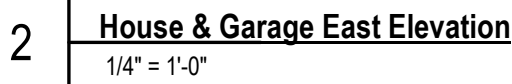
No. Description Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

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

A2.1

Thornburgh Rosenfeld Residence
147 S. Cove Rd,
Burlington, VT 05401



ELEVATIONS

REVISIONS:

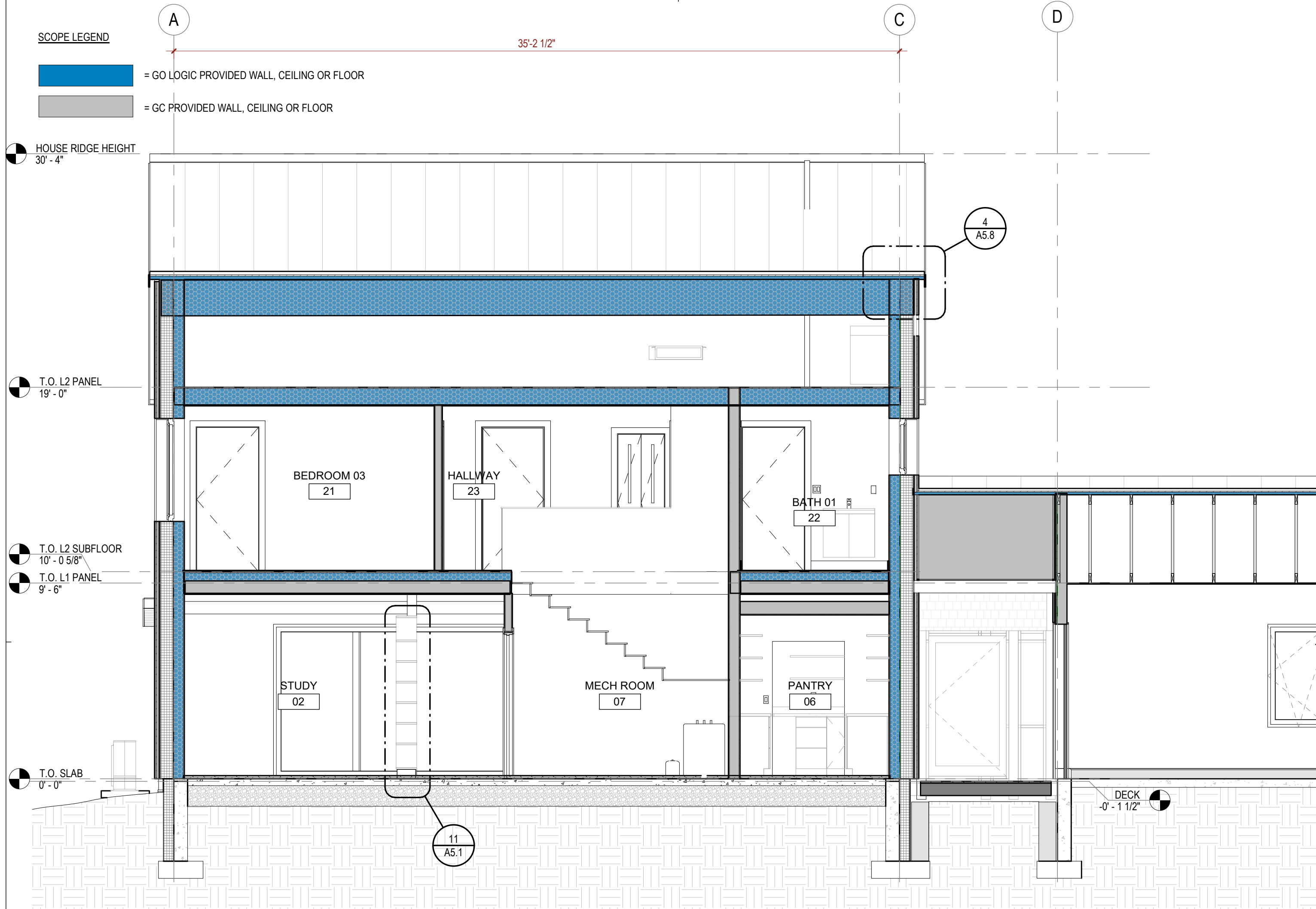
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DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

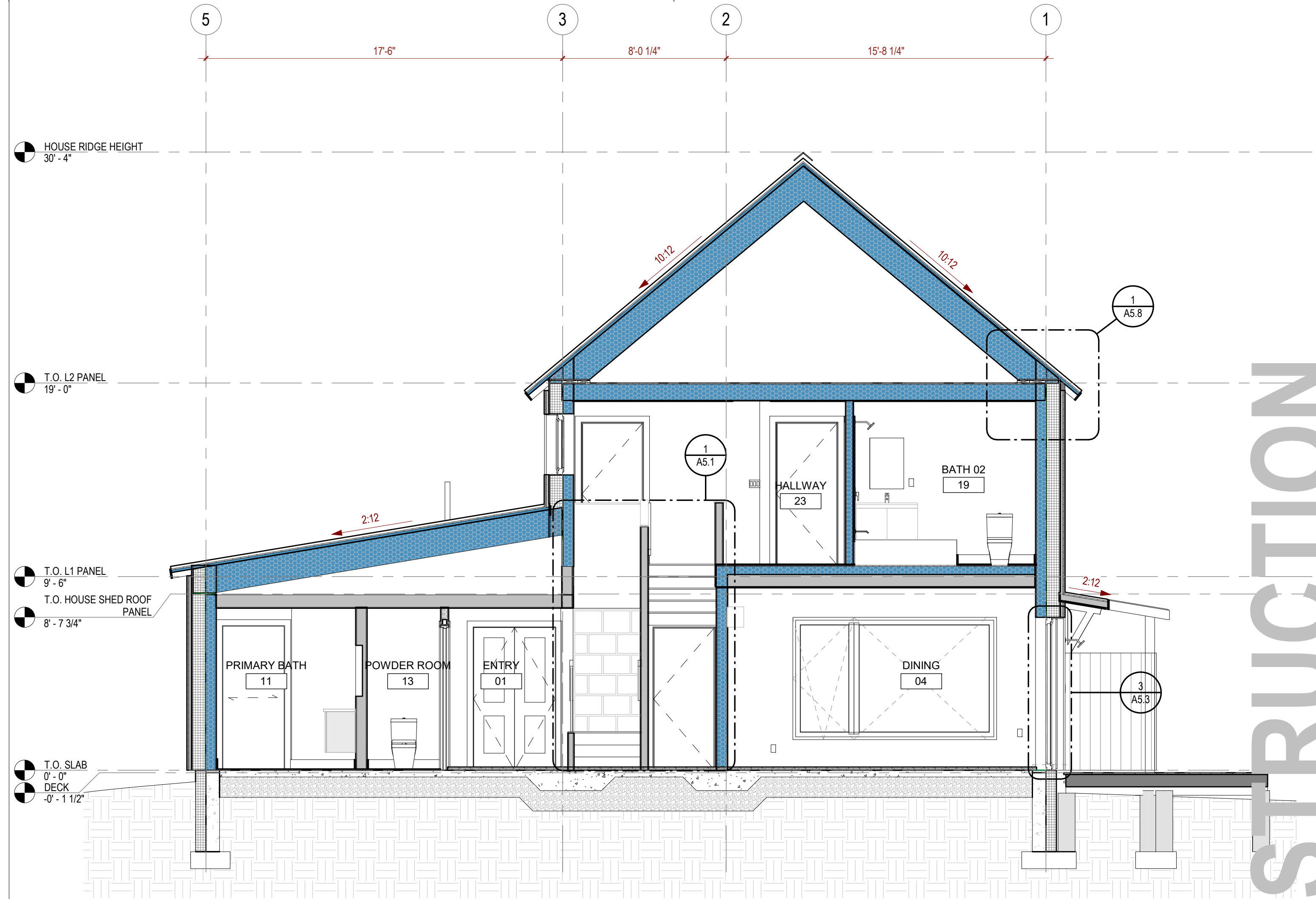
SCALE: 1/4" = 1'-0"

A2.2

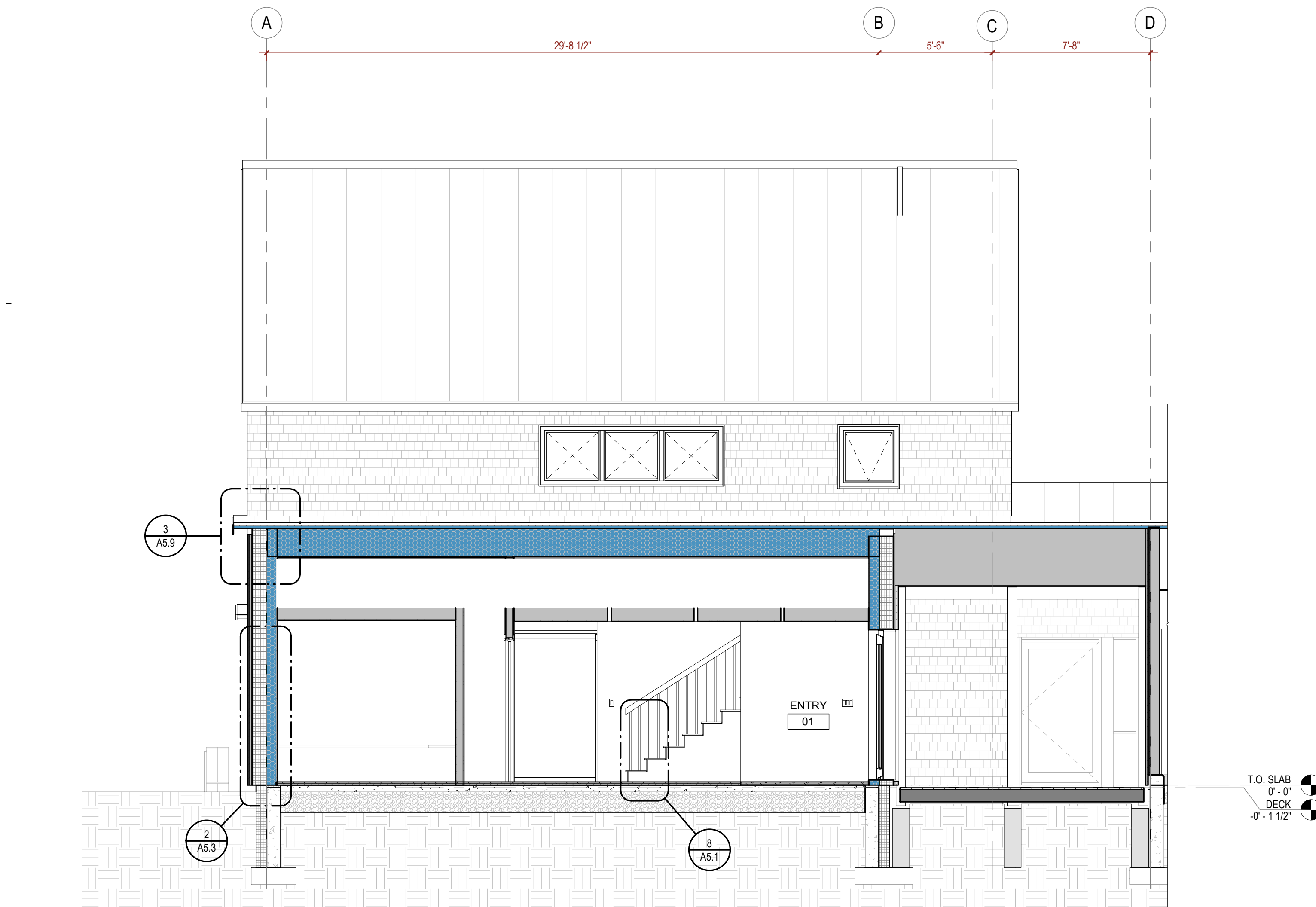
Page 20 of 13



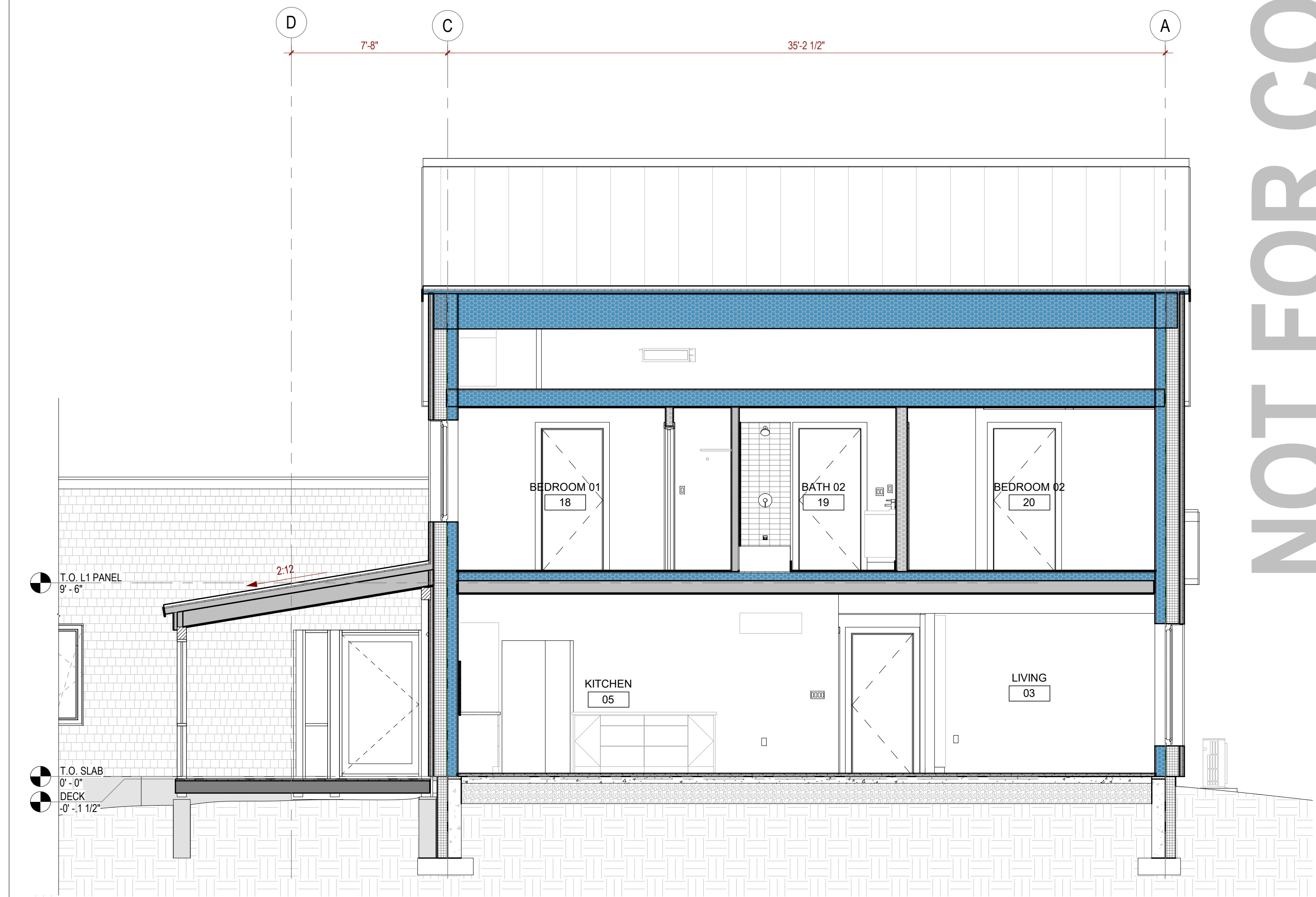
3 Section Through Upper Stair and Pantry
1/4" = 1'-0"



2 Gable Section
1/4" = 1'-0"



1 Long Section Through Entry Hallway
1/4" = 1'-0"

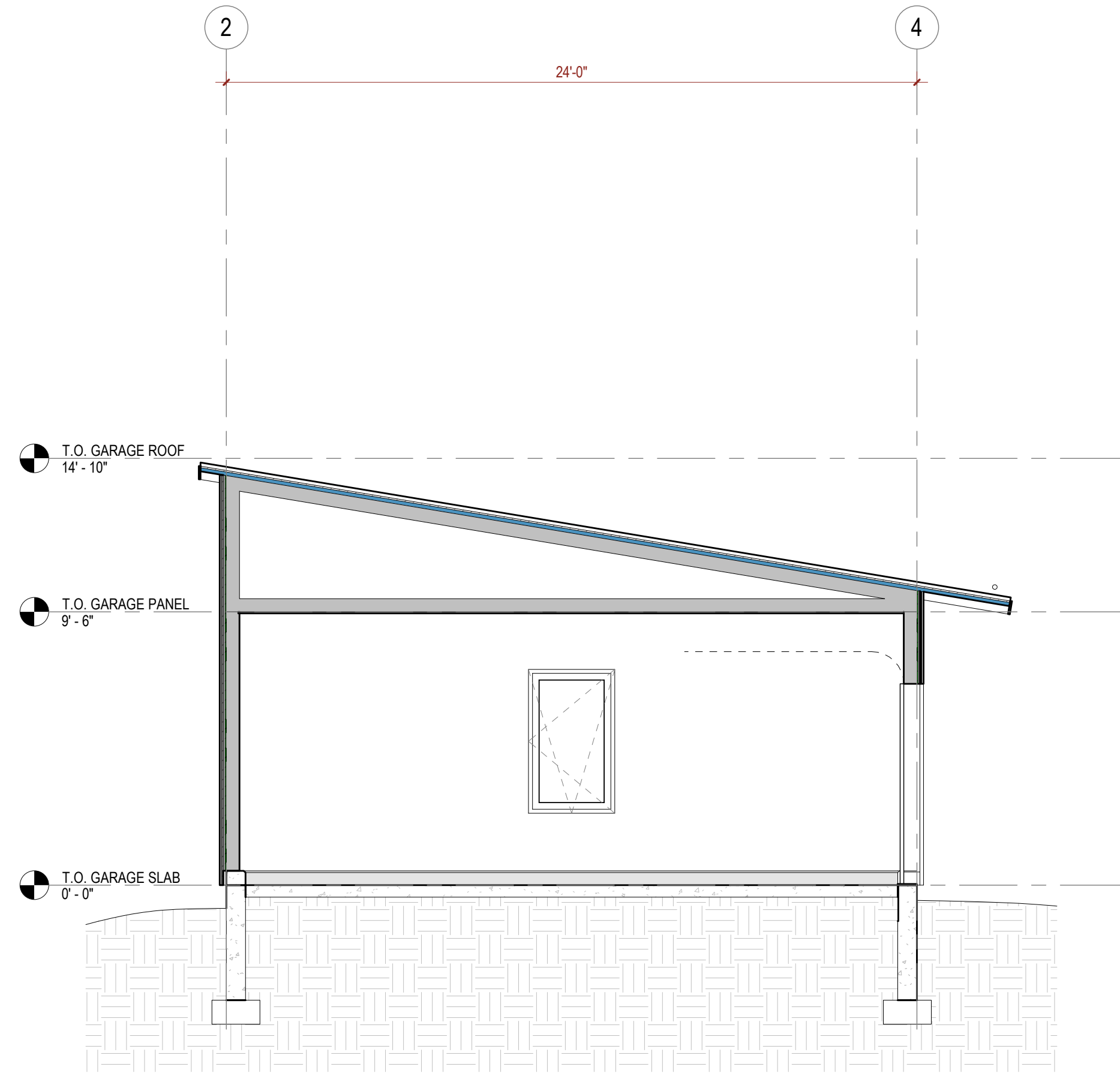


4 Long Section Through Kitchen & Screened Porch
1/4" = 1'-0"

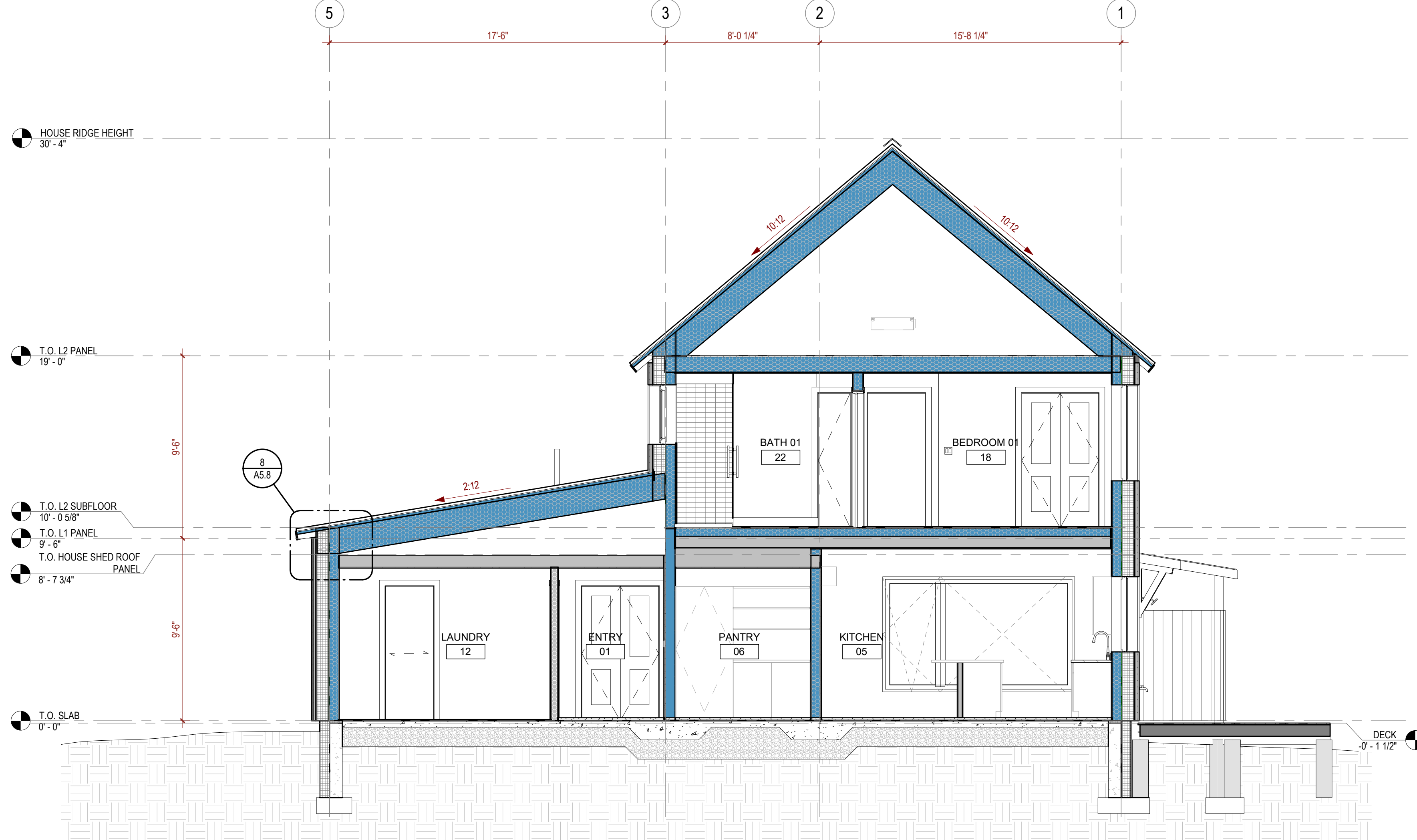
NOT FOR CONSTRUCTION

SCOPE LEGEND

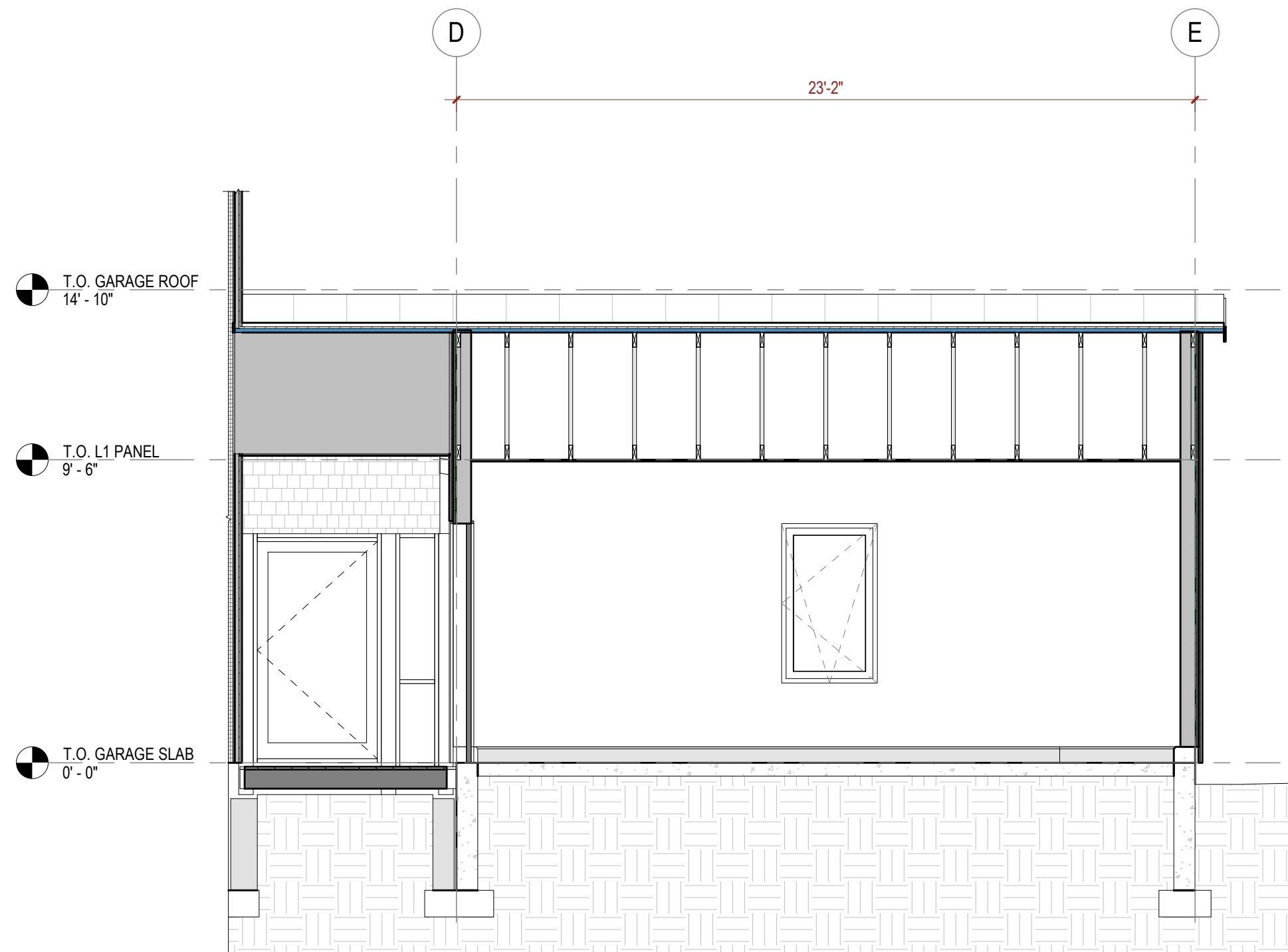
- = GO LOGIC PROVIDED WALL, CEILING OR FLOOR
- = GC PROVIDED WALL, CEILING OR FLOOR



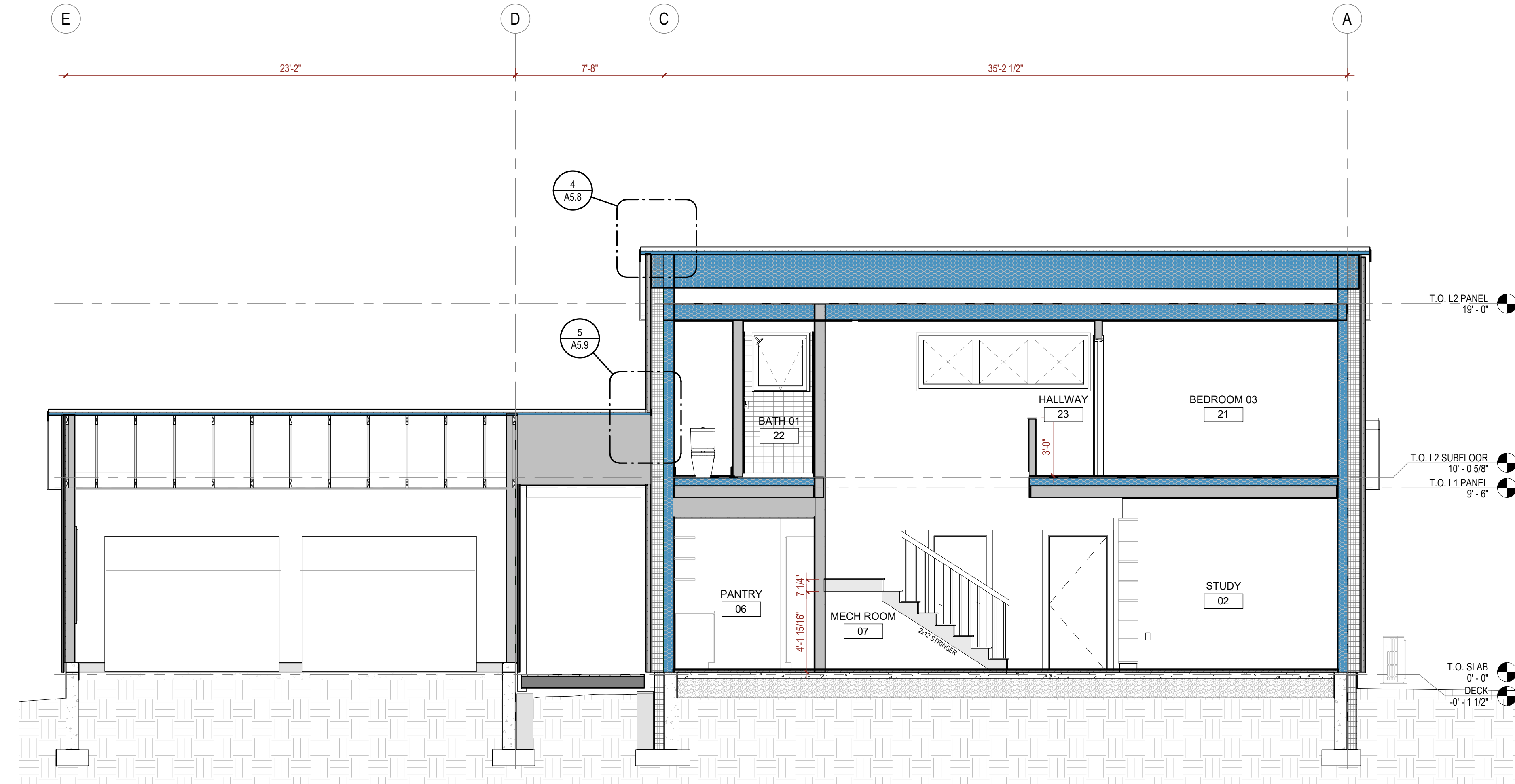
3 Section @ Garage Gable
1/4" = 1'-0"



2 Gable Section 2
1/4" = 1'-0"



4 Section @ Garage Rake
1/4" = 1'-0"



1 Section through Pantry & Lower Stair
1/4" = 1'-0"

NOT FOR CONSTRUCTION

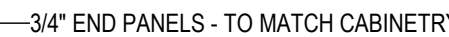
SECTIONS

REVISIONS:

No. Description Date

DATE: 08/26/2025
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REV01

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


$$1/2'' = 1'-0$$

$$1/2^* = 1'-0'$$

$$1/2'' = 1'-0$$

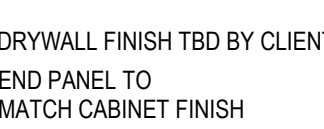
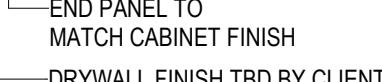

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1



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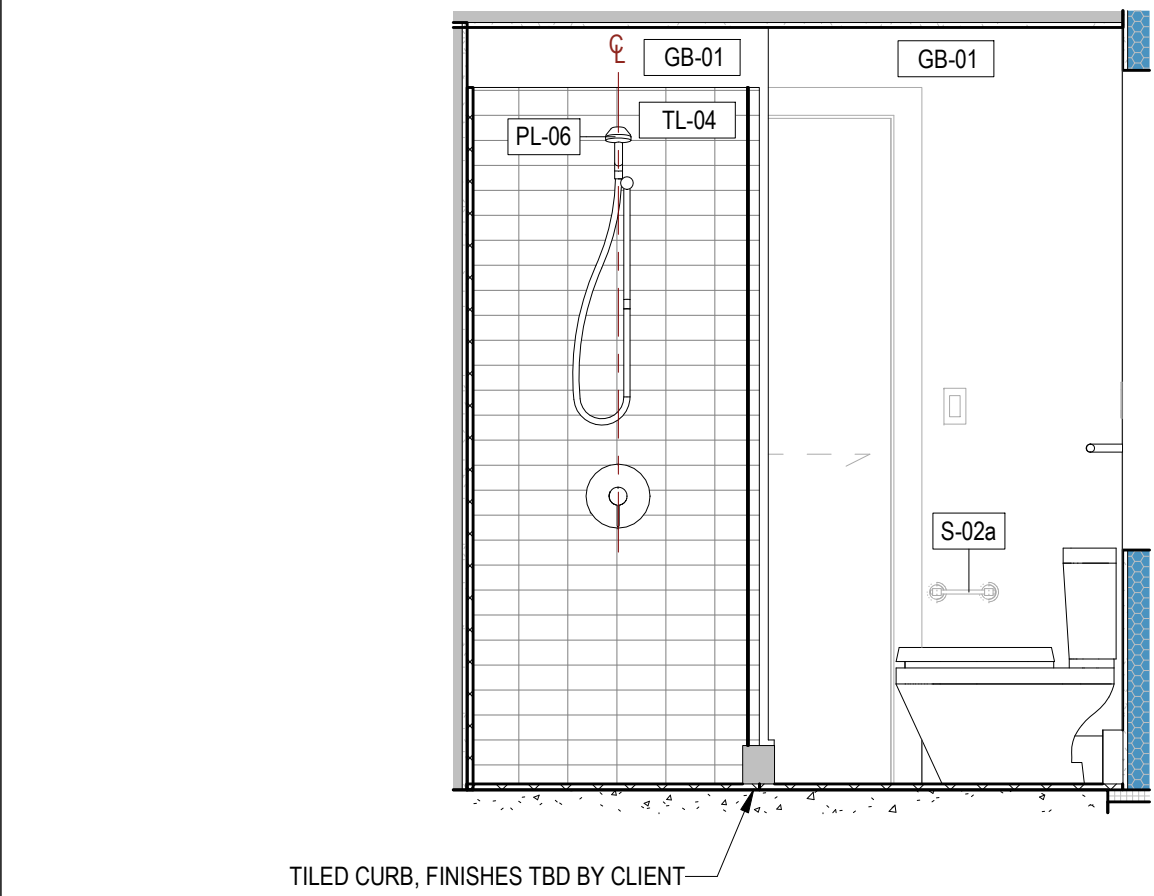

$$1/2^* = 1'-0'$$

$$1/2^* = 1'-0$$


1

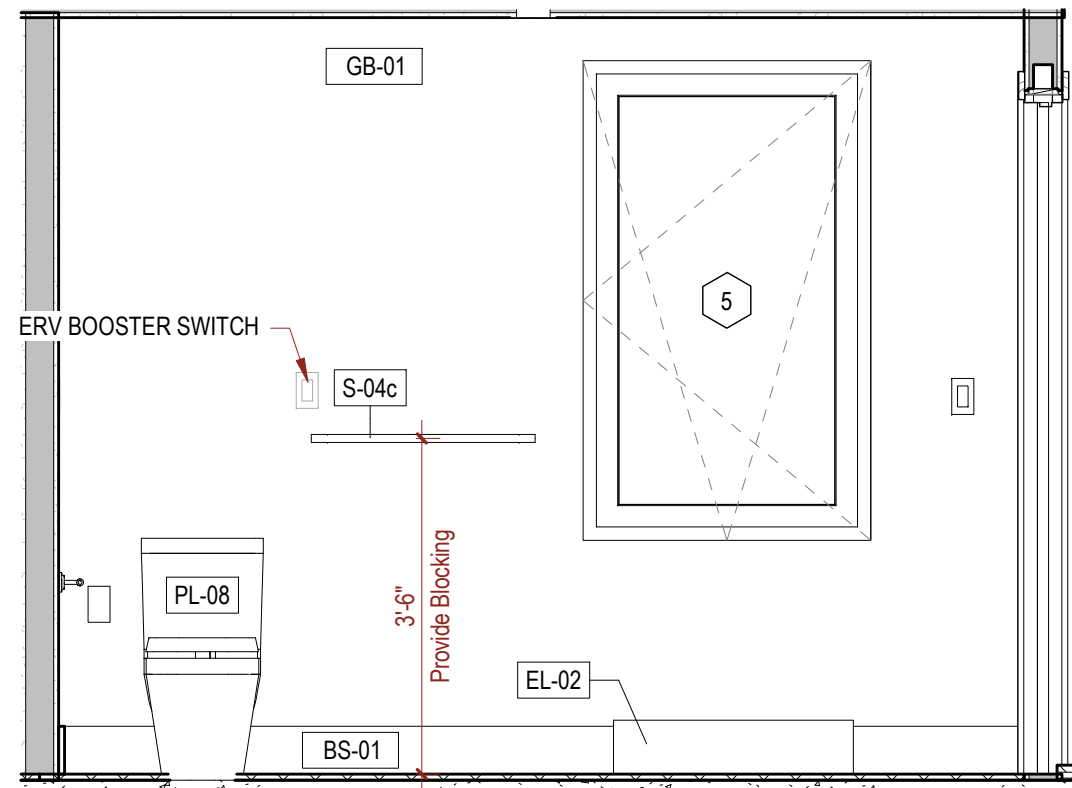
(C) CASEWORK SCHEDULE - A4.1								
MARK	DESCRIPTION	MANUFACTURER	Model	FINISH	WIDTH	HEIGHT	DEPTH	COMMENTS
CW-01	Pull out Cabinet with Interior Track Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 6"	2'- 10 1/2"	2'- 0"	
CW-02	Base Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	2'- 10 1/2"	2'- 0"	
CW-03	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 6"	2'- 10 1/2"	2'- 0"	
CW-04	Base Cabinet Single Door with Deep Corner Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	2'- 10 1/2"	2'- 0"	
CW-05	Pull out Cabinet with Interior Track Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 0"	2'- 10 1/2"	2'- 0"	
CW-06	Refridgerator End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				
CW-07	Refridgerator End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				
CW-08	Upper Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 9 9/16"	1'- 3"	2'- 0"	
CW-09	Upper Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 6"	3'- 0"	1'- 0"	
CW-10	Wall Moured Shelves with recessed LED Strip Light	Custom		Painted, Color TBD by client				Confirm with Client whether with wall brackets or floating. See Enlarge Interior Elevations for Dims
CW-11	Base Cabinet Single Door with Deep Corner Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 3"	2'- 10 1/2"	2'- 0"	
CW-12	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 13 1/16"	2'- 10 1/2"	2'- 0"	
CW-13	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 0"	2'- 10 1/2"	2'- 0"	
CW-14	Tall Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	6'- 10"	1'- 6"	
CW-15	Base Cabinet Single Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 6"	2'- 10 1/2"	2'- 0"	
CW-16	Base Cabinet Single Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 0"	2'- 10 1/2"	2'- 0"	
CW-17	Wall Moured Shelves - Kitchen Pantry	Custom		Painted, Color TBD by client				Confirm with Client for floating shelves. See Enlarge Interior Elevations for Dims
CW-18	Wall Moured Shelves - Kitchen Pantry	Custom		Painted, Color TBD by client				Confirm with Client for floating shelves. See Enlarge Interior Elevations for Dims
CW-19	Island End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				To match cabinets
CW-20	Island End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				To match cabinets
SS-02	Island Countertop	Butcherblock or sim.		TBD by Client				
SS-03	Pantry Countertop	Butcherblock or sim.		TBD by Client	4'- 0"	0'- 1 1/2"	1'- 6"	
SS-04	Pantry Countertop	Butcherblock or sim.		TBD by Client	7'- 0 1/32"	0'- 1 1/2"	2'- 1"	See Enlarged Plans and Interior Elevations for Dims

(A) APPLIANCE SCHEDULE - A4.1					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
AP-01	36" Range Hood	Zline	KB-36	Stainless Steel	Install T95 Remote Blower Dual Motor and restrict air flow to 280 cfm - MECH Damper
AP-02	Microwave	TBO	TBD	TBD	Confirm with Client
AP-03	33" Wide Bottom Refrigerator	LG	LKRD32603S	Stainless Steel	
AP-04	24" Dishwasher	Bosch	SHP78CMCN	Stainless Steel	
AP-05	Single Unit WashTower	LG	WKHC252HBA		
AP-06	36" Induction Range	Bertazzoni Professional Series	PRO365INMXV	Stainless Steel	

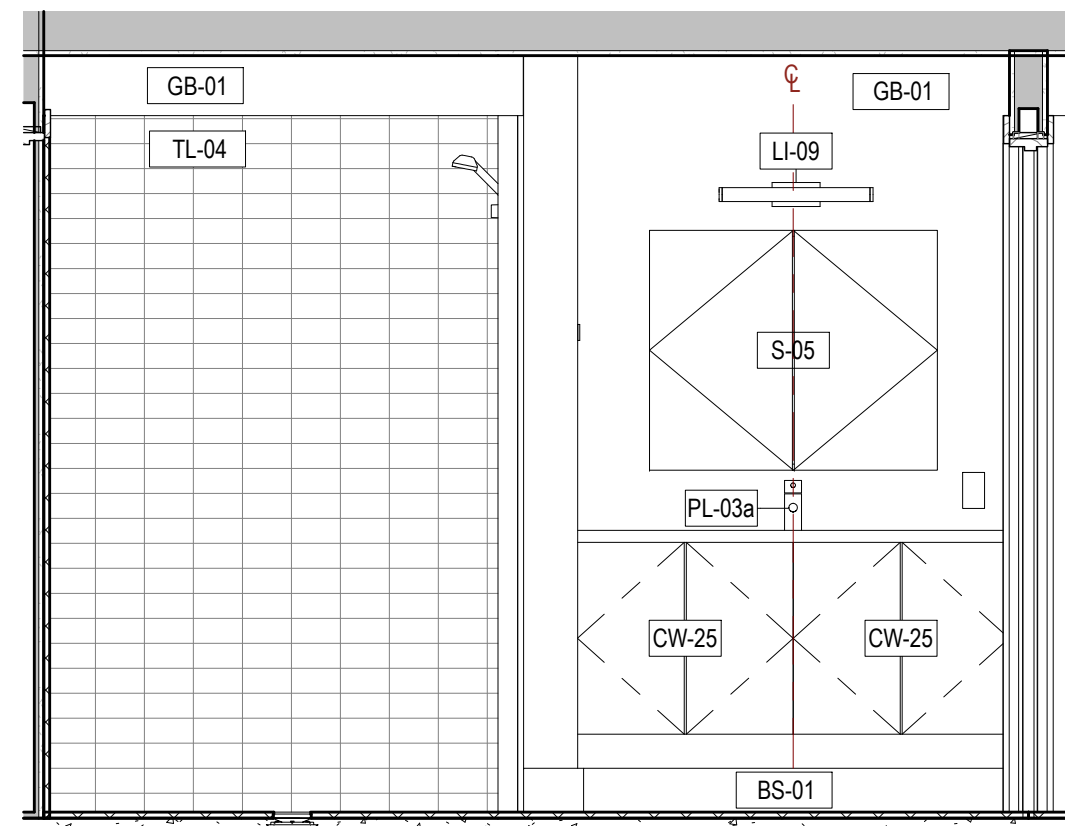
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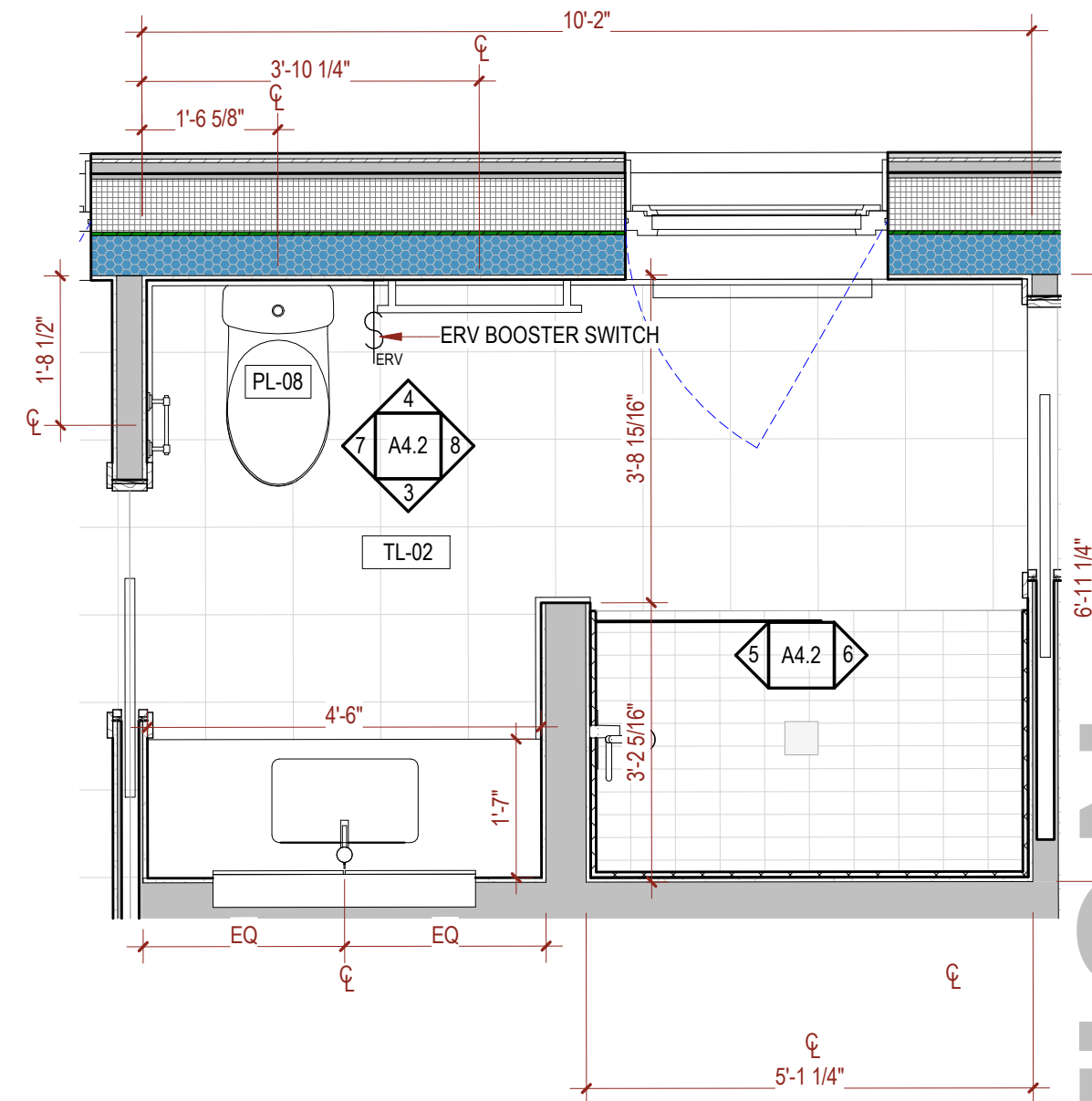
5 Primary Bathroom Elevation C
1/2" = 1'-0"



4 Primary Bathroom Elevation B
1/2" = 1'-0"



3 Primary Bathroom Elevation A
1/2" = 1'-0"



1 Primary Bathroom Enlarged Plan
1/2" = 1'-0"

(S) ACCESSORIES SCHEDULE A4.2					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
S-01	Chrome Robe Hook - Bath 01	Galtol	4635A	Chrome	
S-02a	Toilet Paper Holder - Primary Bathroom	TBD	TBD	Confirm with Client	
S-02b	Toilet Paper Holder - Bath 01	Kohler or sim.	K-27292-CP	Polished Chrome	
S-02c	Toilet Paper Holder - Bath 02	Kohler or sim.	K-27292-BN	Vibrant Brushed Nickel	
S-02d	Toilet Paper Holder - Powder Room	Pottery Barn	Rhodes	Tumbled Brass	
S-03	Robe Hook -Bath 02	Rejuvenation	Sommerville hook	Brushed Nickel	
S-04	24" Towel Bar - Bath 02	Kohler or sim.	K-27287-CP	Brushed Nickel	
S-04c	24" Towel Bar - Primary Bathroom	TBD	TBD	Confirm with Client	
S-05	Frameless Double Door Medicine Cabinet	TBD	TBD	Confirm with Client	Confirm with Client
S-06	Single Door Mirrored Medicine Cabinet	Ikea or sim.	102.302.27		Confirm with Client
S-07	Frameless Sliding Tub Door	Fleurco	NSST260R32R-25-40	Brushed Nickel	
S-08	Attic Pull Down Stair	Brosco/Husky or sim.	655	Painted to Match Trim	
S-09	Wall Mounted Mirror	TBD	TBD	TBD	

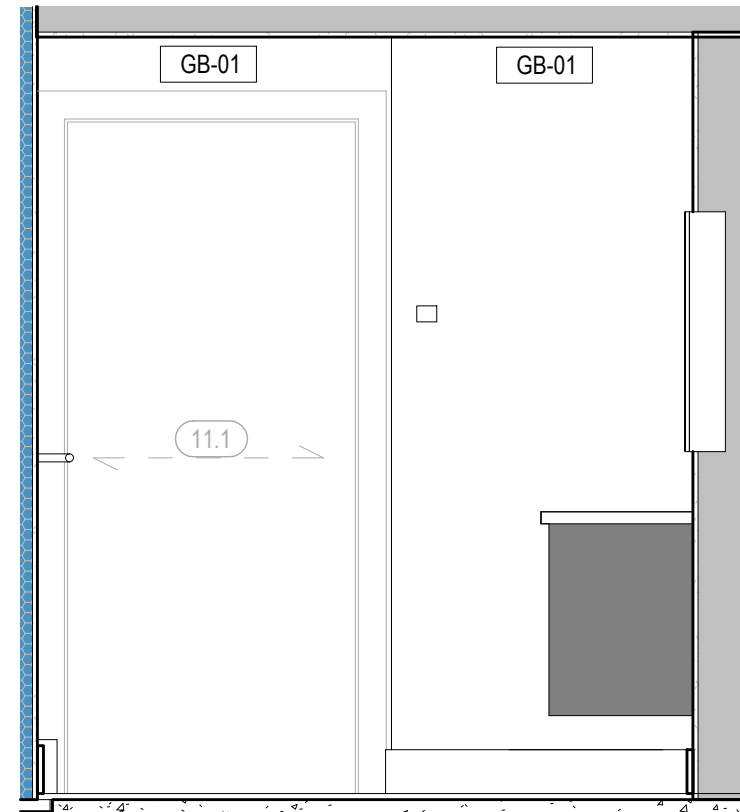
(P) PLUMBING SCHEDULE A4.2					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
PL-01	Pull-Down Kitchen Sink Faucet	TBD	TBD	TBD	Confirm With Client
PL-03	Single Hole Lavatory Faucet - Bath 01	Ikea	ENSEN	Chrome Plated	Confirm With Client
PL-03a	Single Hole Lavatory Faucet - Primary Bathroom	TBD	TBD	TBD	Confirm With Client
PL-03b	Single Hole Lavatory Faucet - Bath 02	Della	35749LF-SS	TBD	Confirm With Client
PL-06	Shower Faucet - Primary Bathroom	TBD	TBD	TBD	Confirm With Client
PL-07	Shower Set - Bath 01	TBD	TBD	TBD	Confirm With Client
PL-08	Toilet	TBD	TBD	TBD	Confirm With Client
PL-09	Tiled Shower Base With Tiled Curb	TBD	TBD	TBD	Confirm With Client
PL-10	Shower Set + Tub Filler	TBD	TBD	TBD	Confirm With Client
PL-11	Acrylic Tub - Apron Front	TBD	TBD	TBD	Confirm With Client
PL-12	Wall Mount Sink + Antique Faucet	Concretti	Mini San Francisco + 2 Handle	Turquoise + Antique	Confirm with Client

(A) APPLIANCE SCHEDULE - A4.2					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
AP-01	36" Range Hood	Zine	KB-36	Stainless Steel	Install T95 Remote Blower Dual Motor and restrict air flow to 280 cfm - MECH Damper
AP-02	Microwave	TBD	TBD	TBD	Confirm with Client
AP-03	33" Wide Bottom Refrigerator	LG	LRDCS2603S	Stainless Steel	
AP-04	24" Dishwasher	Bosch	SHP78CM5N	Stainless Steel	
AP-05	Single Unit Wash Tower	LG	WKHC252HBA		
AP-06	36" Induction Range	Bertazzoni Professional Series	PRO365INMXV	Stainless Steel	

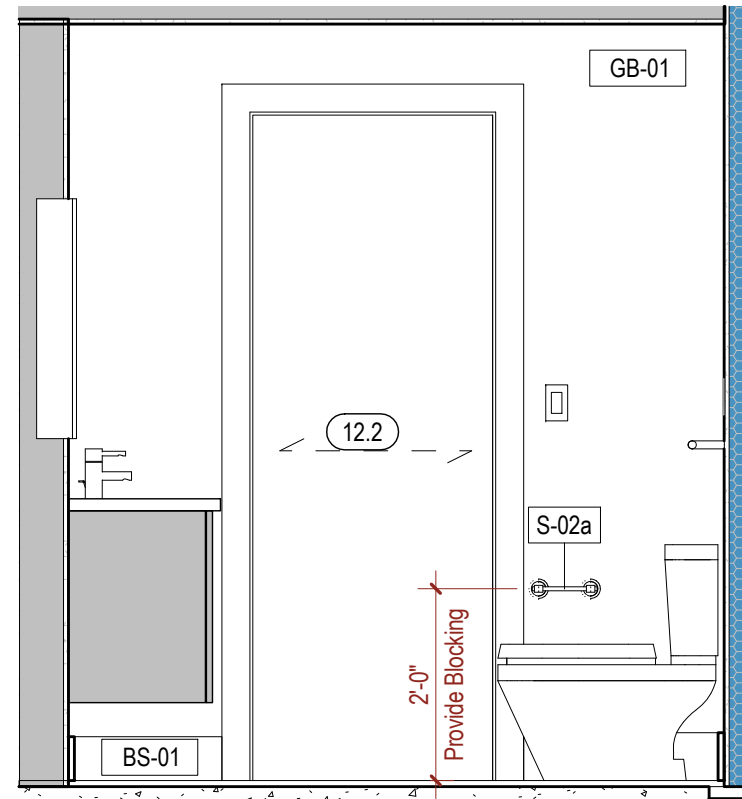
(C) CASEWORK SCHEDULE A4.2								
MARK	DESCRIPTION	MANUFACTURER	Model	FINISH	WIDTH	HEIGHT	DEPTH	COMMENTS
CW-21	Linen Shelves With Door	Custom		Painted, Color TBD by client				Confirm with client
CW-22	36" Harrison Single Bathroom Vanity Sink and Cabinet, No Hardware	West Elm	Harrison	Color Green: Celadon	3' - 0"	2' - 4 3/8"	1' - 6 1/2"	Confirm with client
CW-22a	30" Single Bathroom Vanity Sink and Cabinet, With Hardware	KEA	HEMNES / RUTSJÖN	Color Blue	2' - 6"	2' - 4 3/8"	1' - 6 1/2"	Confirm with client
CW-23	Base Cabinet Double Door Shaker Style	TBD		TBD by Client	3' - 0"	2' - 10 1/2"	2' - 0"	
CW-25	Vanity Sink and Cabinet	TBD		TBD by Client	2' - 3"	2' - 0"	1' - 6"	
SS-05	Laundry Countertop	TBD		TBD by Client				See Enlarged Plans and Interior Elevations for Dims

MATERIAL FINISH SCHEDULE (Interior) A4.2				
MARK	MATERIAL DESCRIPTION	MANUFACTURER	FINISH	COMMENTS
BS-01	1x6 Painted Poplar or Sim. - Baseboard	Pine	Painted, Low VOC Paint - Color TBD	
CN-02	Cast-in-Place Concrete	N/A	Unfinished	
FL-01	Reclaimed & Antique Plank Flooring	vermontplankflooring	Oak, Finish TBD by Client	Random Width
FL-02	Reclaimed & Antique Plank Flooring	vermontplankflooring	Oak, Finish TBD by Client	Narrow Width
GB-01	Gypsum Wall Board	TBD	Level 4 Smooth, Painted, Color TBD	
GL-01	Ceiling Gypsum Board	TBD	Level 4 Smooth, Painted, Color TBD	
GL-01	30" Glass Screen Shower Panel - Hinged Door	Dreamline or Sim.	TBD by Client	Confirm with Client
GL-02	42" Hinged Glass Shower Door - Hinged Door	Dreamline or Sim.	TBD by Client	Confirm with Client
SS-01	Stone Countertop + 4" backsplash	Caesarsstone	TBD by Client	Confirm with Client
TL-01	Stove backsplash - Square Level Pattern - Size (4-1/8" x 4-1/8")	FireClay Tile	TBD by Client	Grout Color: TBD by Client
TL-02	Primary Bath Floor Tile	TBD by Client	TBD by Client	
TL-03	Primary Shower Floor Tile	TBD by Client	TBD by Client	
TL-04	Primary Shower Wall Tile	TBD by Client	TBD by Client	
TL-05	Laundry Floor Tile	TBD by Client	TBD by Client	
TL-06	Powder Bath Floor Tile	TBD by Client	TBD by Client	
TL-07	Bath 01 Floor Tile	TBD by Client	TBD by Client	
TL-08	Bath 01 Wall Tile	TBD by Client	TBD by Client	
TL-09	Bath 02 Floor Tile	TBD by Client	TBD by Client	
TL-10	Bath 02 Wall Tile	TBD by Client	TBD by Client	
TL-11	Entry Floor Tile	TBD by Client	TBD by Client	

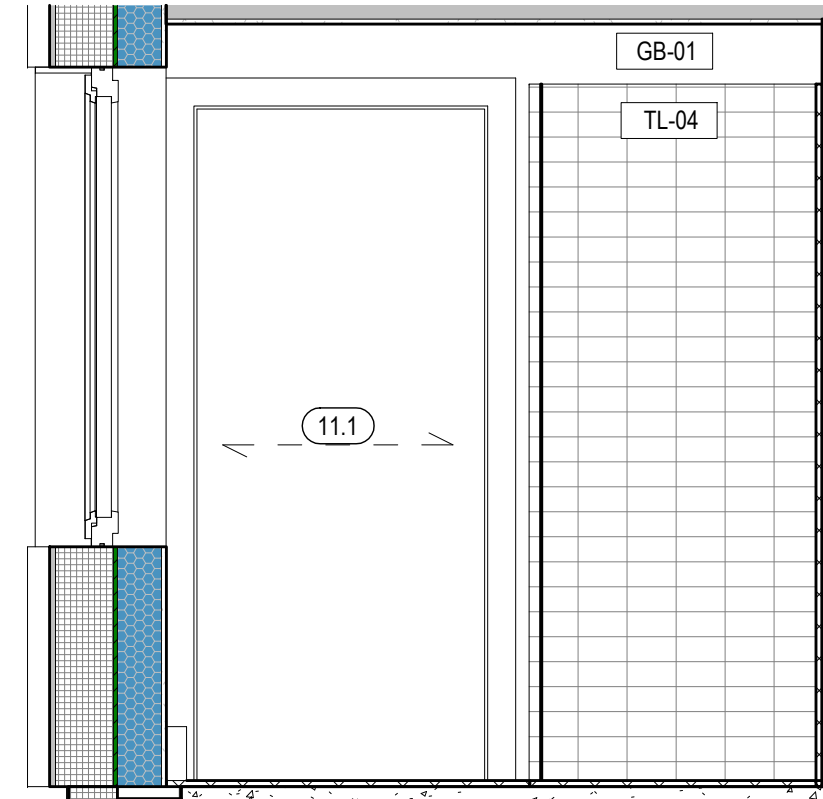
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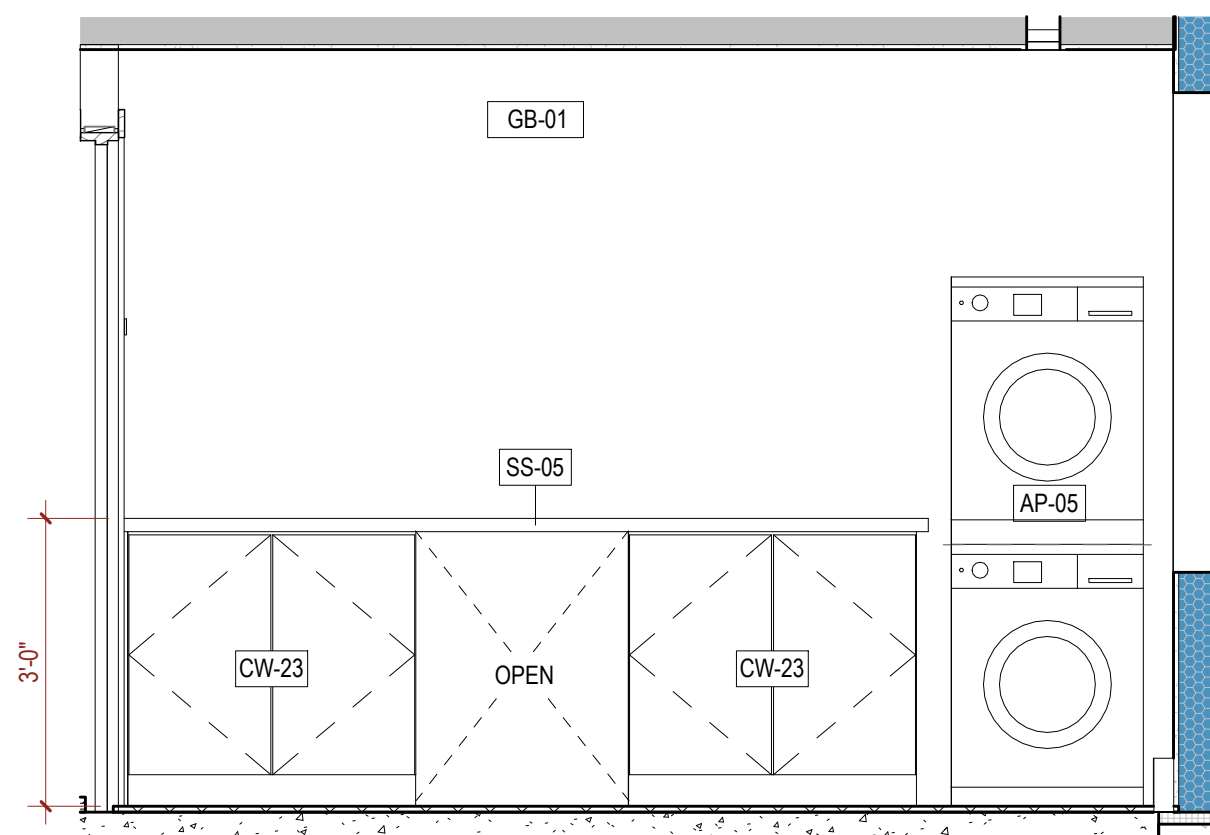
8 Primary Bathroom Elevation F
1/2" = 1'-0"



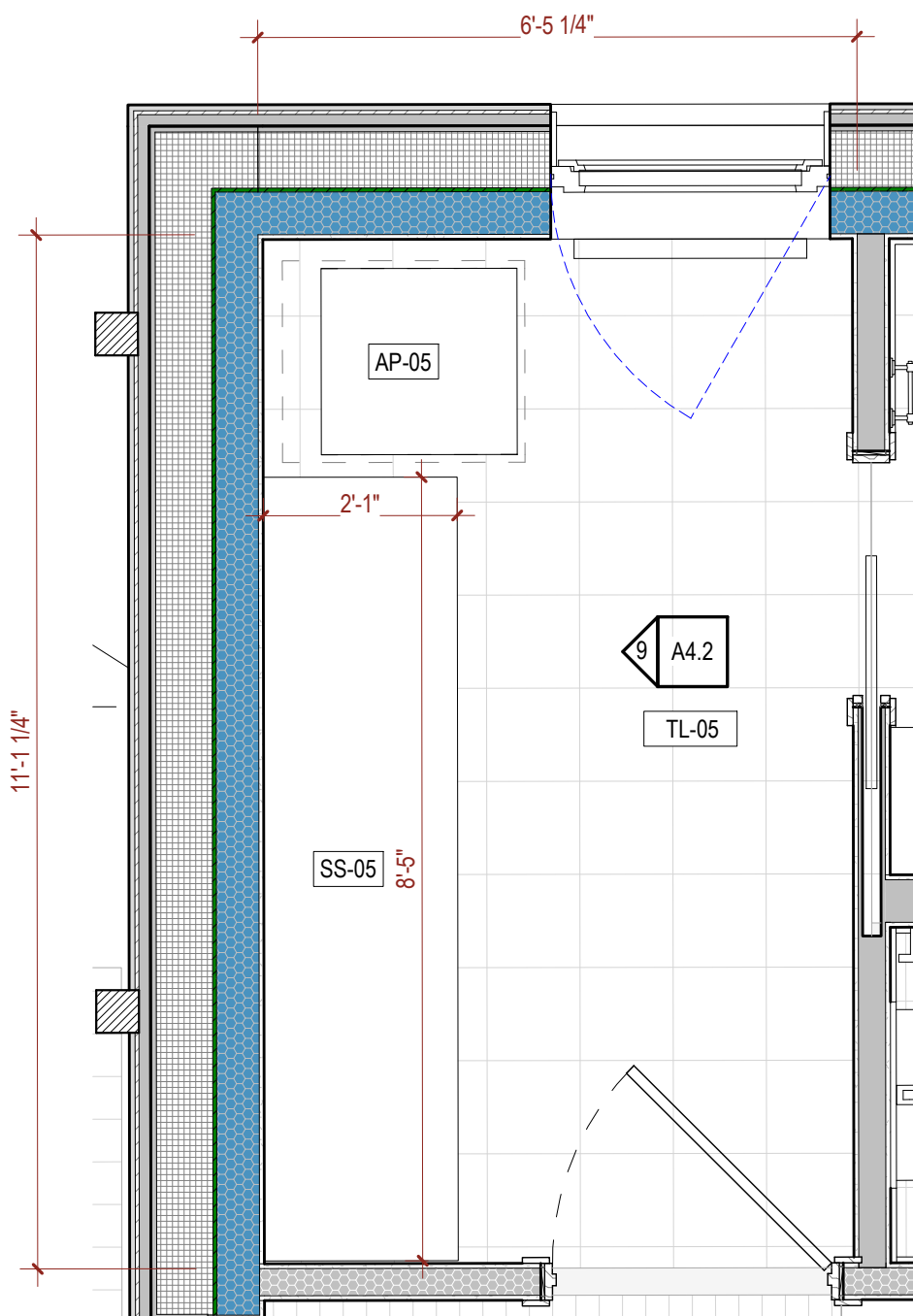
7 Primary Bathroom Elevation E
1/2" = 1'-0"



6 Primary Bathroom Elevation D
1/2" = 1'-0"



9 Laundry Elevation 1
1/2" = 1'-0"



2 Laundry Enlarged Plan
1/2" = 1'-0"

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ENLARGED PLANS AND INTERIOR ELEVATIONS

Thornburgh Rosenfeld Residence

147 S. Cove Rd,
Burlington, VT 05401



GO Logic LLC
52 Little River Drive
Bellaire, TX 77401
207.338.1566
www.gologic.us

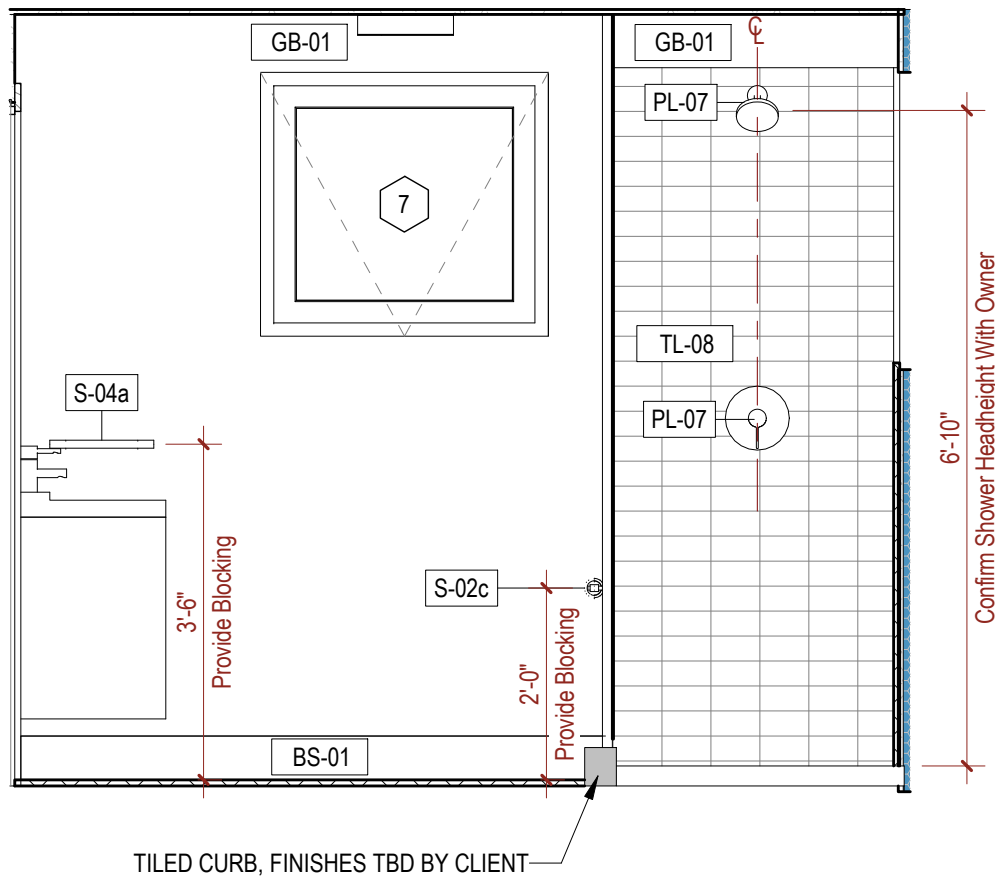
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No. Description Date

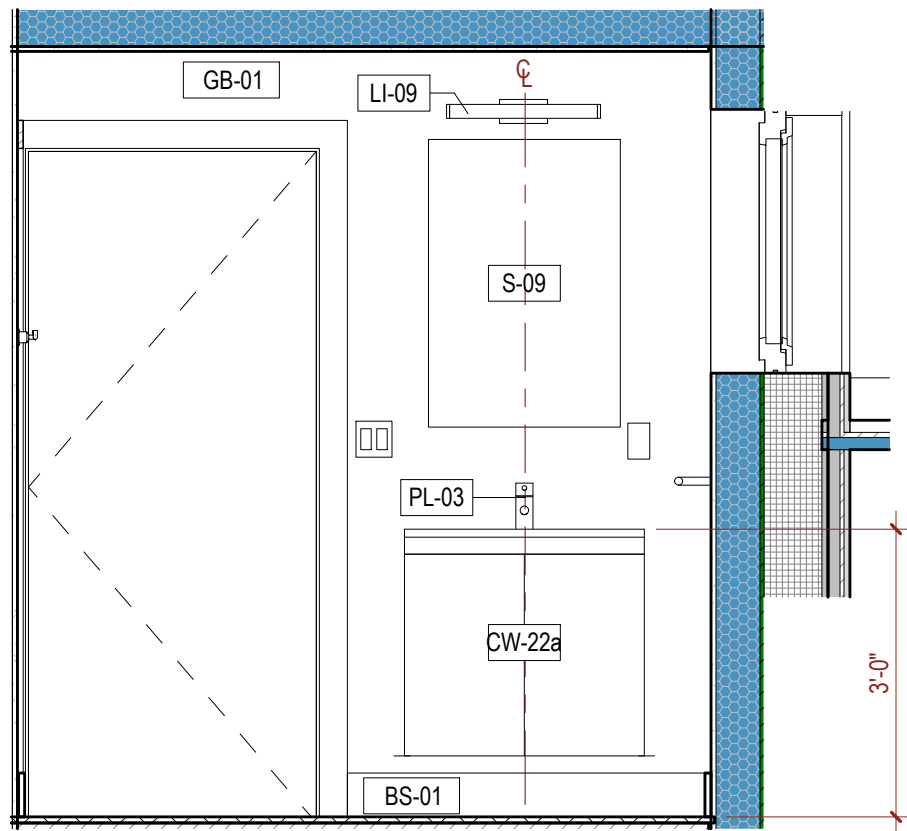
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ISSUE: PERMITTING SET
REV01

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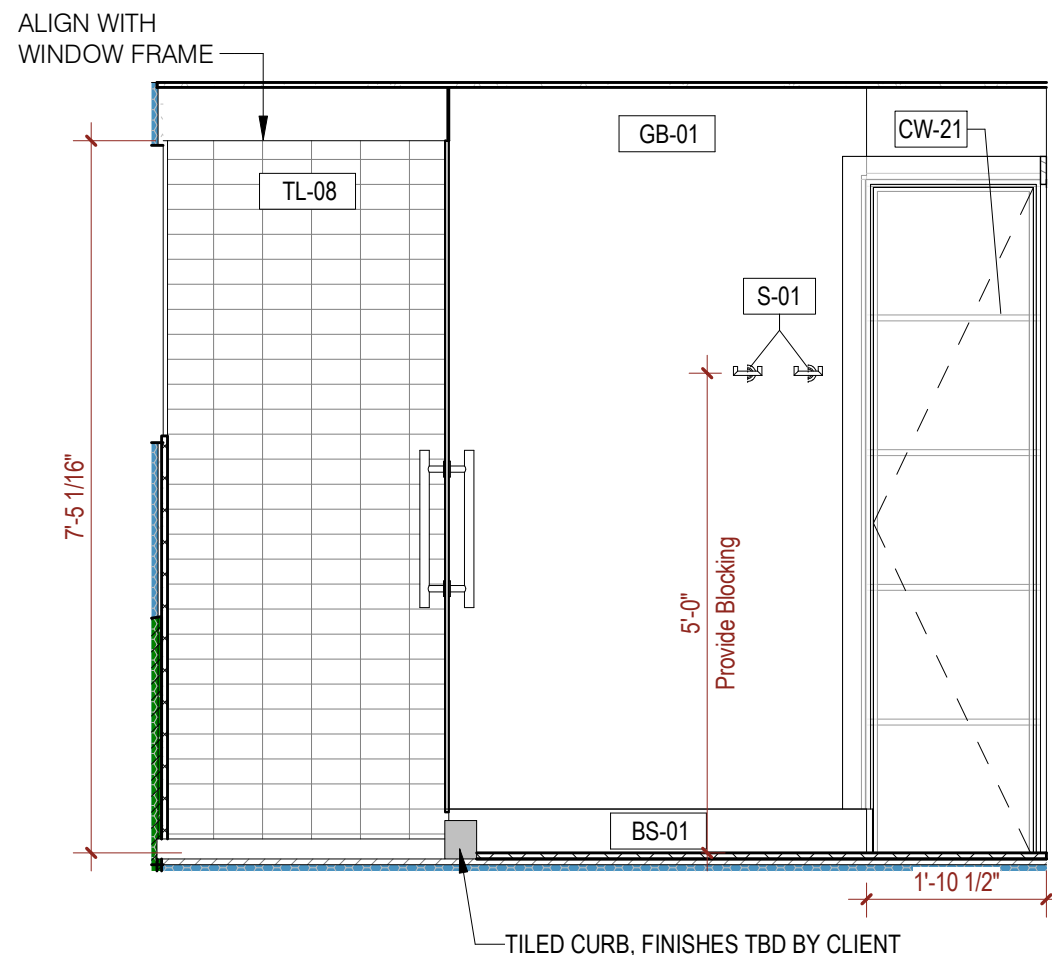
A4.2



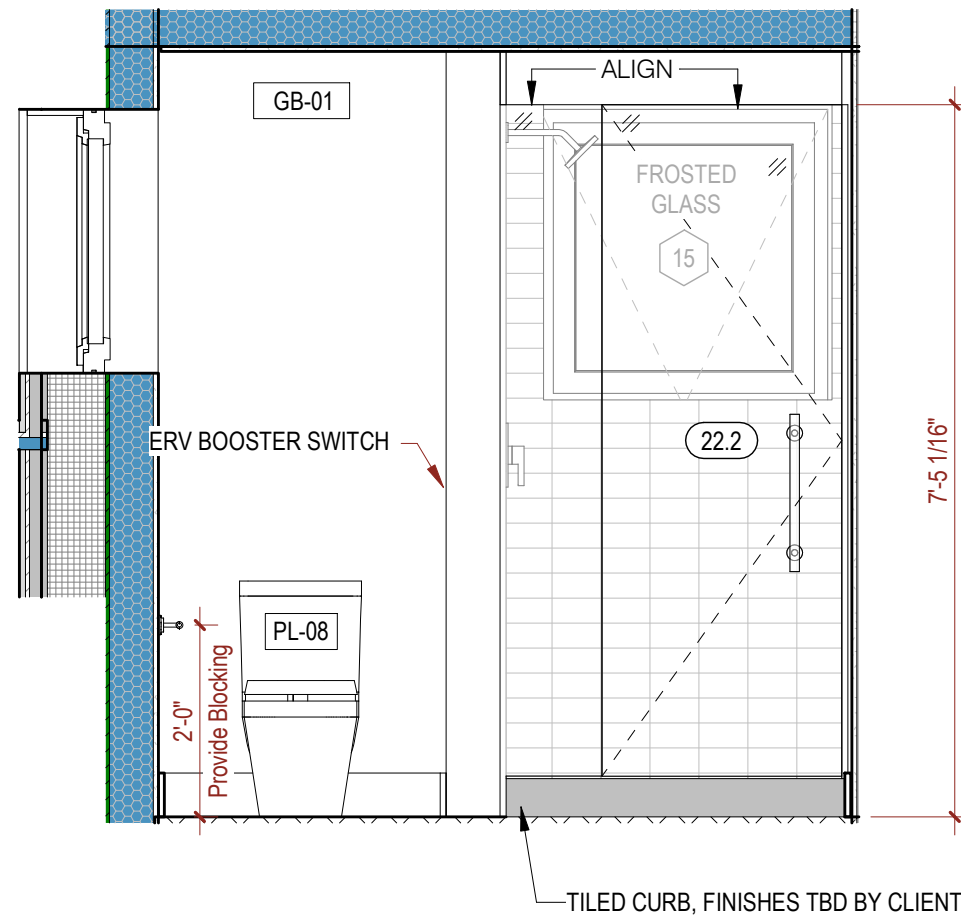
13 Bathroom 01 Elevation D
1/2" = 1'-0"



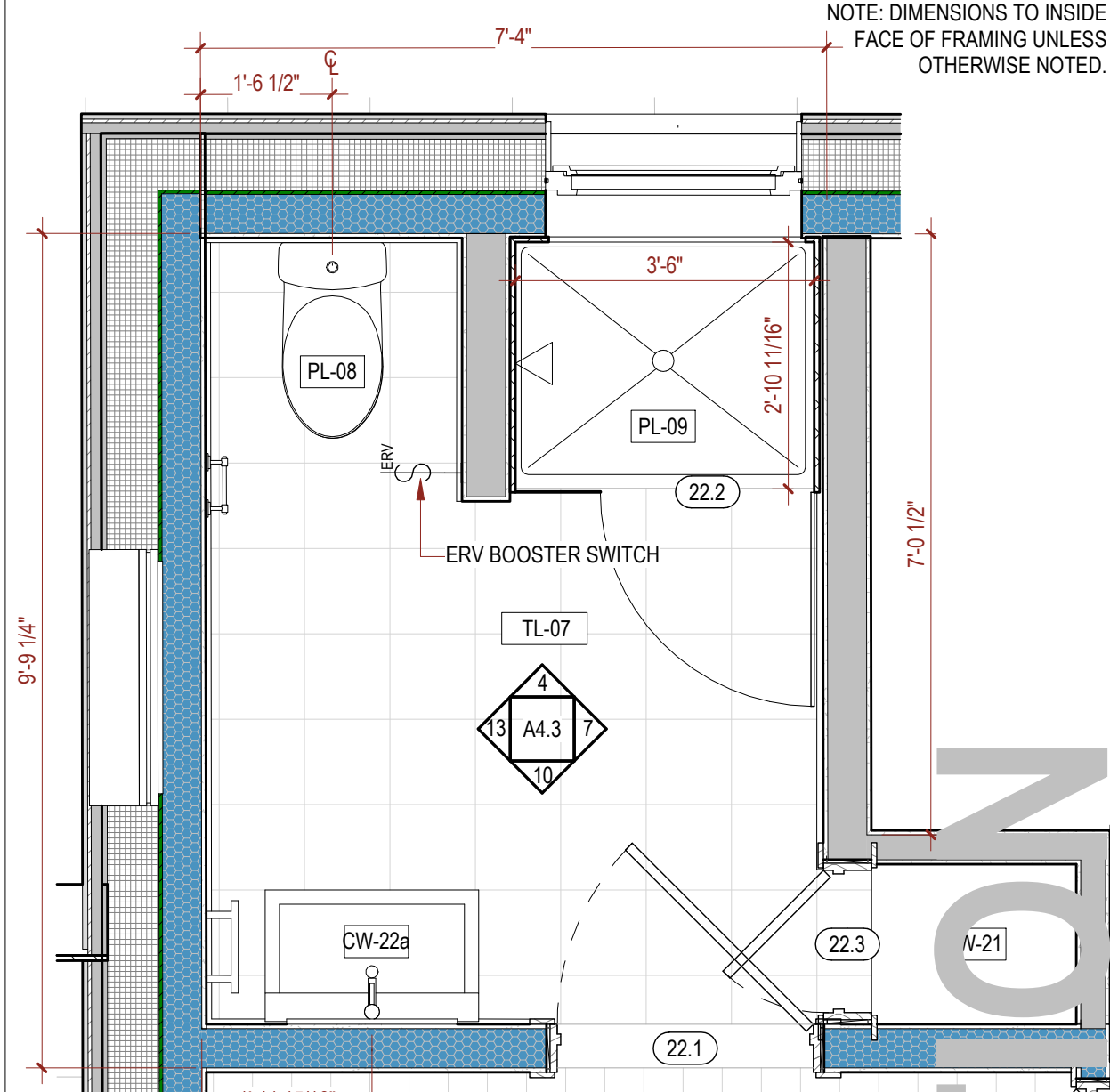
10 Bathroom 01 Elevation C
1/2" = 1'-0"



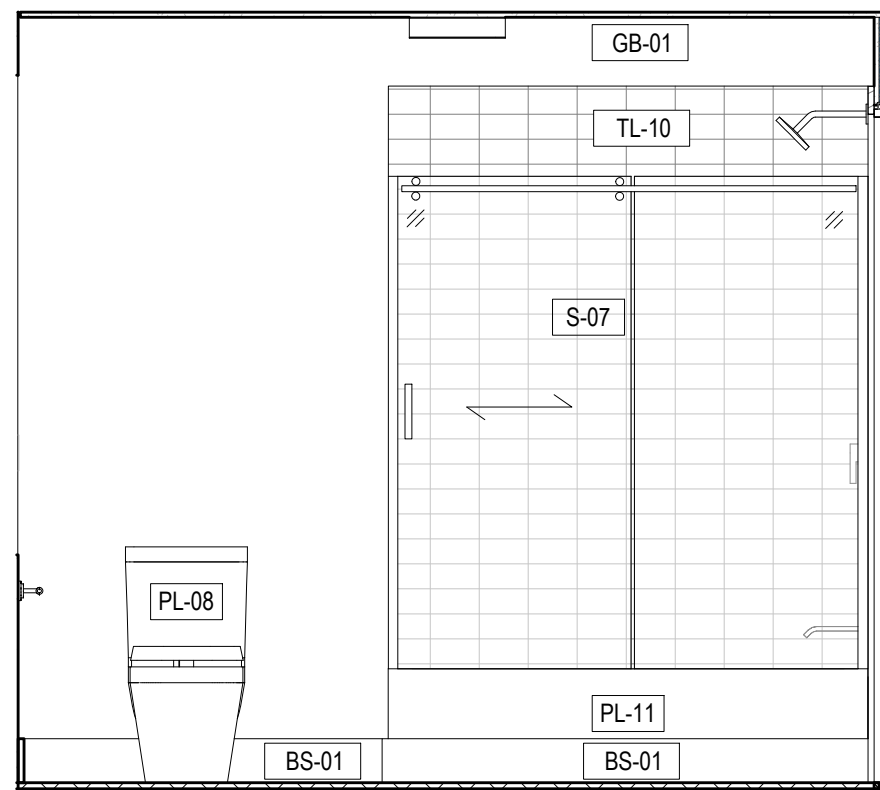
7 Bathroom 01 Elevation B
1/2" = 1'-0"



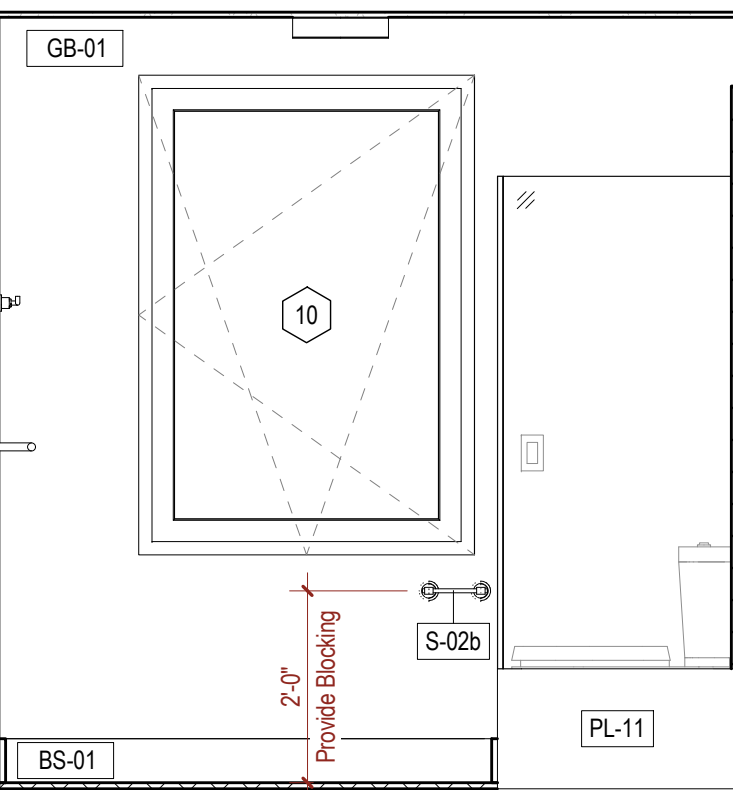
4 Bathroom 01 Elevation A
1/2" = 1'-0"



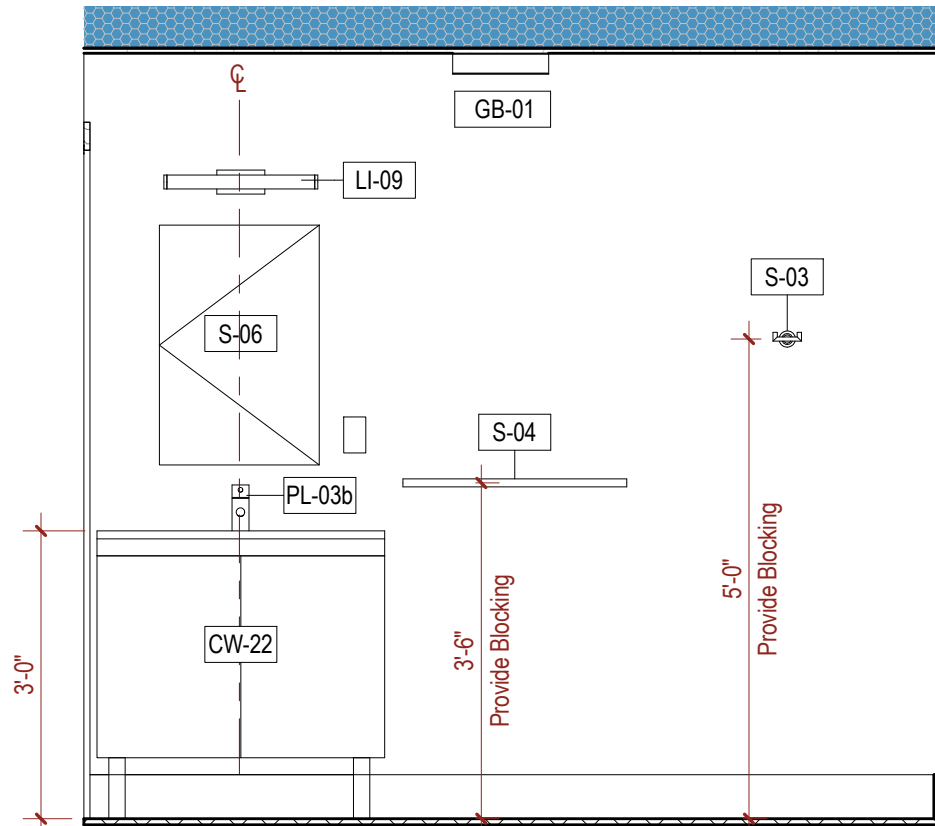
1 Bathroom 01 Enlarged Plan
1/2" = 1'-0"



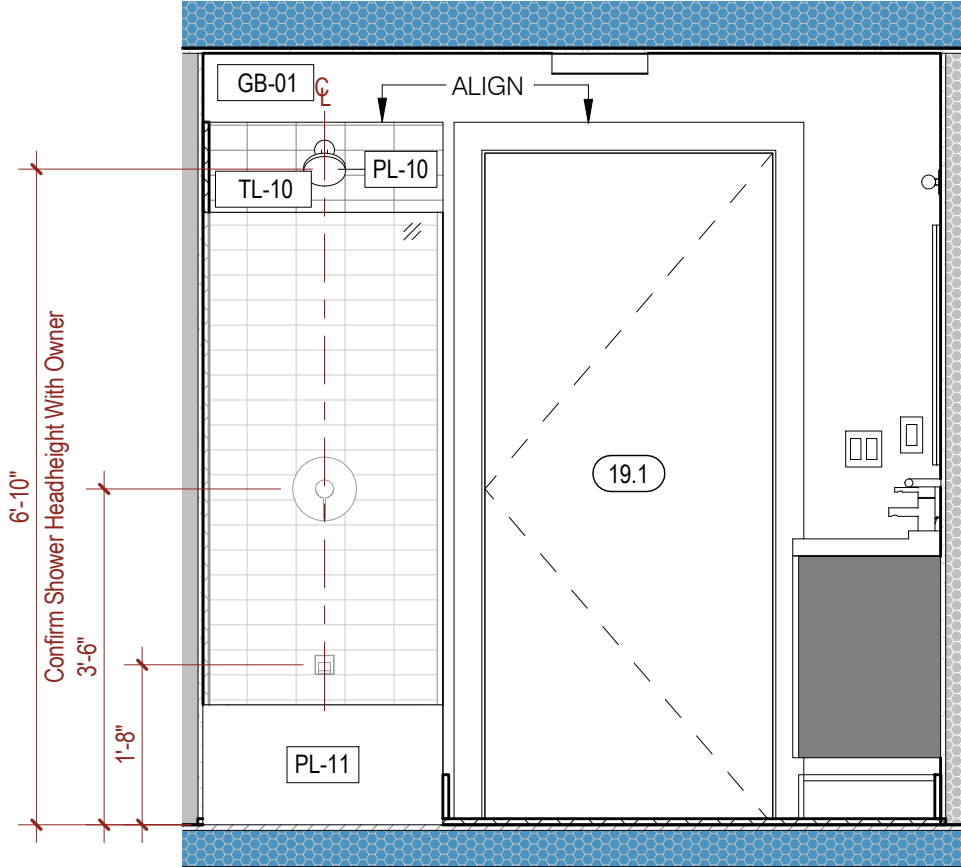
14 Bathroom 02 Elevation D
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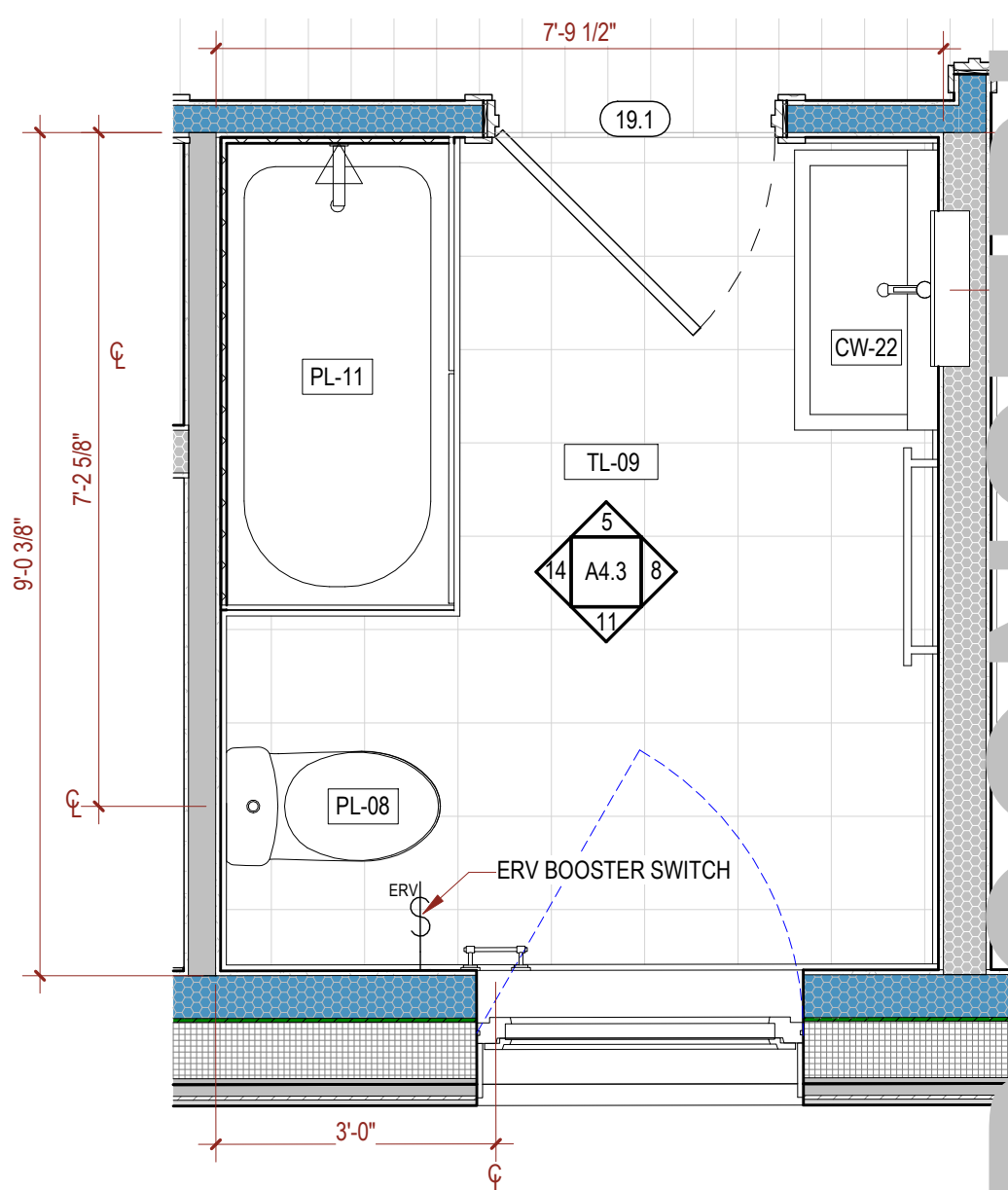
11 Bathroom 02 Elevation C
1/2" = 1'-0"



8 Bathroom 02 Elevation B
1/2" = 1'-0"



5 Bathroom 02 Elevation A
1/2" = 1'-0"



2 Bathroom 02 Enlarged Plan
1/2" = 1'-0"

(C) CASEWORK SCHEDULE A4.3

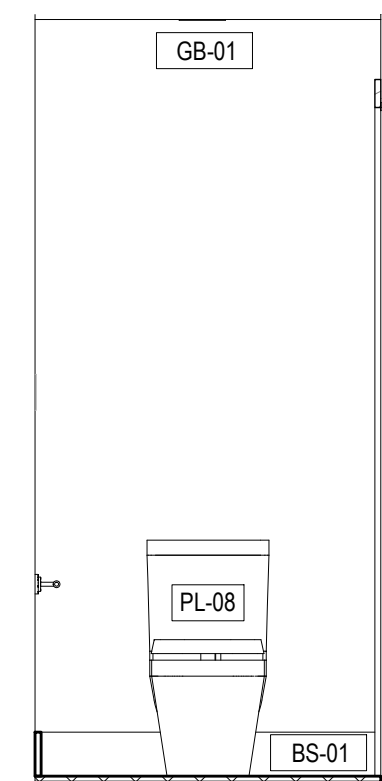
MARK	DESCRIPTION	MANUFACTURER	Model	FINISH	WIDTH	HEIGHT	DEPTH	COMMENTS
CW-21	Linen Shelves With Door	Custom		Painted, Color TBD by client	3'-0"	2'-4 3/8"	1'-6 1/2"	Confirm with client.
CW-22	36" Harrison Single Bathroom Vanity Sink and Cabinet, No Hardware	West Elm	Harrison	Color Green: Celadon	3'-0"	2'-4 3/8"	1'-6 1/2"	Confirm with client.
CW-22a	30" Single Bathroom Vanity Sink and Cabinet, With Hardware	IKEA	HEMNES / RUTSJÖN	Color Blue	2'-6"	2'-4 3/8"	1'-6 1/2"	Confirm with client.
CW-23	Base Cabinet Double Door Shaker Style	TBD		TBD by Client	3'-0"	2'-10 1/2"	2'-0"	
CW-25	Vanity Sink and Cabinet	TBD		TBD by Client	2'-3"	2'-0"	1'-6"	
SS-05	Laundry Countertop	TBD		TBD by Client				See Enlarged Plans and Interior Elevations for Dims

(S) ACCESSORIES SCHEDULE A4.3

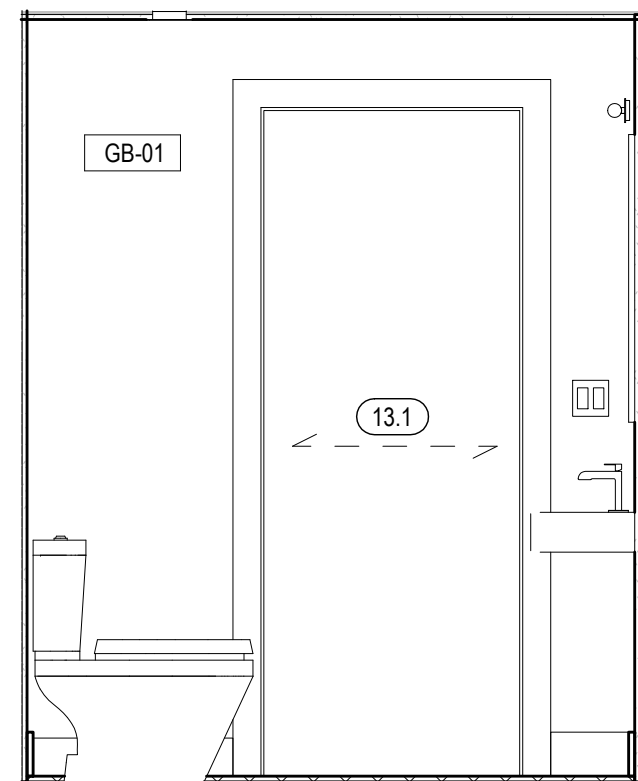
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
S-01	Chrome Robe Hook	Gatcol	4635A	Chrome	
S-02a	Toilet Paper Holder - Primary Bathroom	TBD		Confirm with Client	
S-02b	Toilet Paper Holder - Bath 01	Kohler or sim.	K-27292-CP	Polished Chrome	
S-02c	Toilet Paper Holder - Bath 02	Kohler or sim.	K-27292-BN	Vibrant Brushed Nickel	
S-02d	Robe Hook - Bath 02 - 2nd Room	Rejuvenation	Sommerville hook	Tumbled Brass	
S-03	Chrome Robe Hook	Gatcol	4635A	Chrome	
S-04	24" Towel Bar - Bath 02	Kohler or sim.	K-27287-CP	Brushed Nickel	
S-04c	24" Towel Bar - Primary Bathroom	TBD		Confirm with Client	
S-05	Frameless Double Door Medicine Cabinet	TBD		Confirm with Client	Confirm with Client
S-06	Single Door Mirrored Medicine Cabinet	Ikea or sim.	102.302.27		Confirm with Client
S-07	Frameless Sliding Tub Door	Fleurco	NSST260R32R-25-40	Brushed Nickel	
S-08	Attic Pull Down Stair	Brosco/Husky or sim.	655	Painted to Match Trim	
S-09	Wall Mounted Mirror	TBD		TBD	

(P) PLUMBING SCHEDULE A4.3

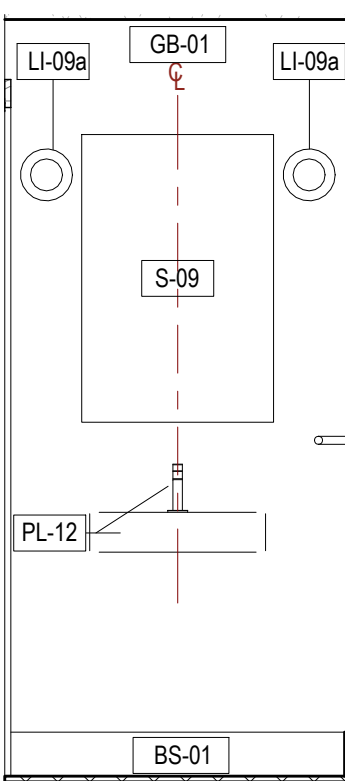
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
PL-01	Pull-Down Kitchen Sink Faucet	TBD		TBD	Confirm With Client
PL-03	Single Hole Lavatory Faucet - Bath 01	Ikea	ENSEN	Chrome Plated	Confirm With Client
PL-03a	Single Hole Lavatory Faucet - Primary Bathroom	TBD		TBD	Confirm With Client
PL-03b	Single Hole Lavatory Faucet - Bath 02	Della	35749LF-SS		Confirm With Client
PL-06	Shower Faucet - Primary Bathroom	TBD		TBD	Confirm With Client
PL-07	Shower Set - Bath 01	TBD		TBD	Confirm With Client
PL-08	Toilet	TBD		TBD	Confirm With Client
PL-09	Tiled Shower Base With Tiled Curb	TBD		TBD	Confirm With Client
PL-10	Shower Set + Tub Filler	TBD		TBD	Confirm With Client
PL-11	Acrylic Tub - Apron Front	TBD		TBD	Confirm With Client
PL-12	Wall Mount Sink - Antique Faucet	Concetti	Mini San Francisco + 2 Handle	Turquoise + Antique	Confirm with Client



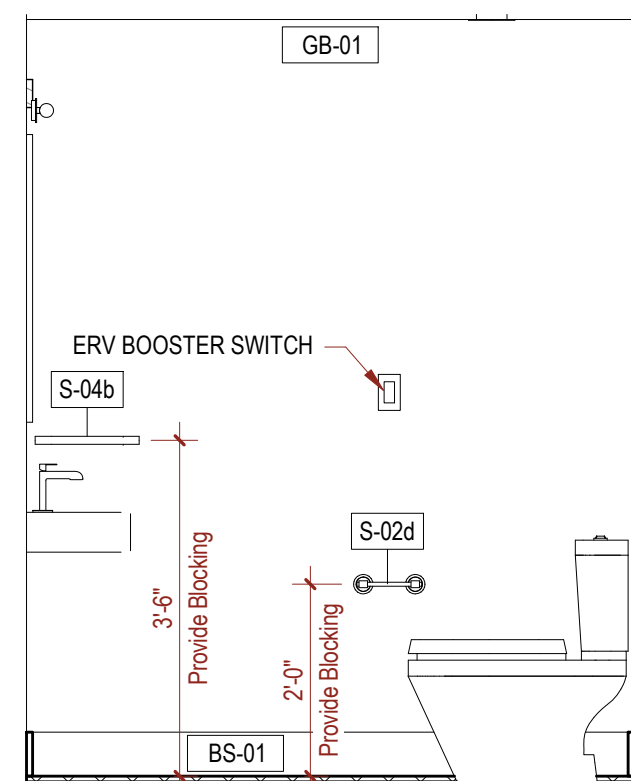
15 Powder Room Elevation 4
1/2" = 1'-0"



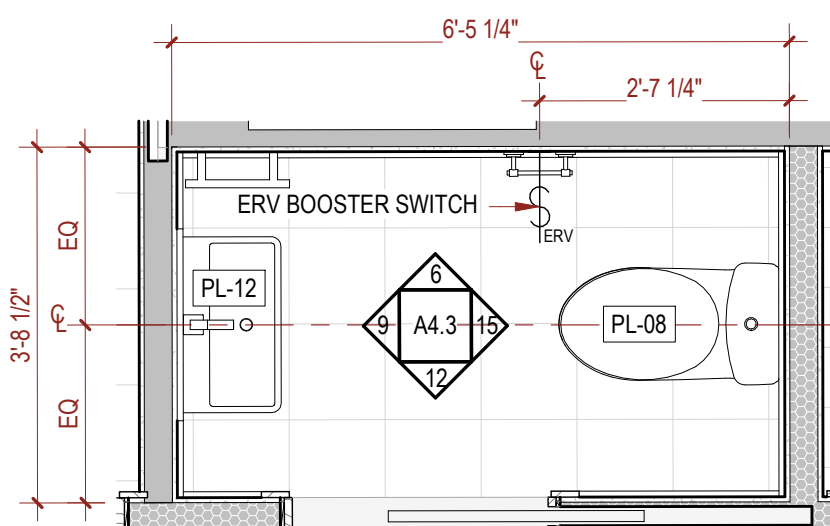
12 Powder Room Elevation 3
1/2" = 1'-0"



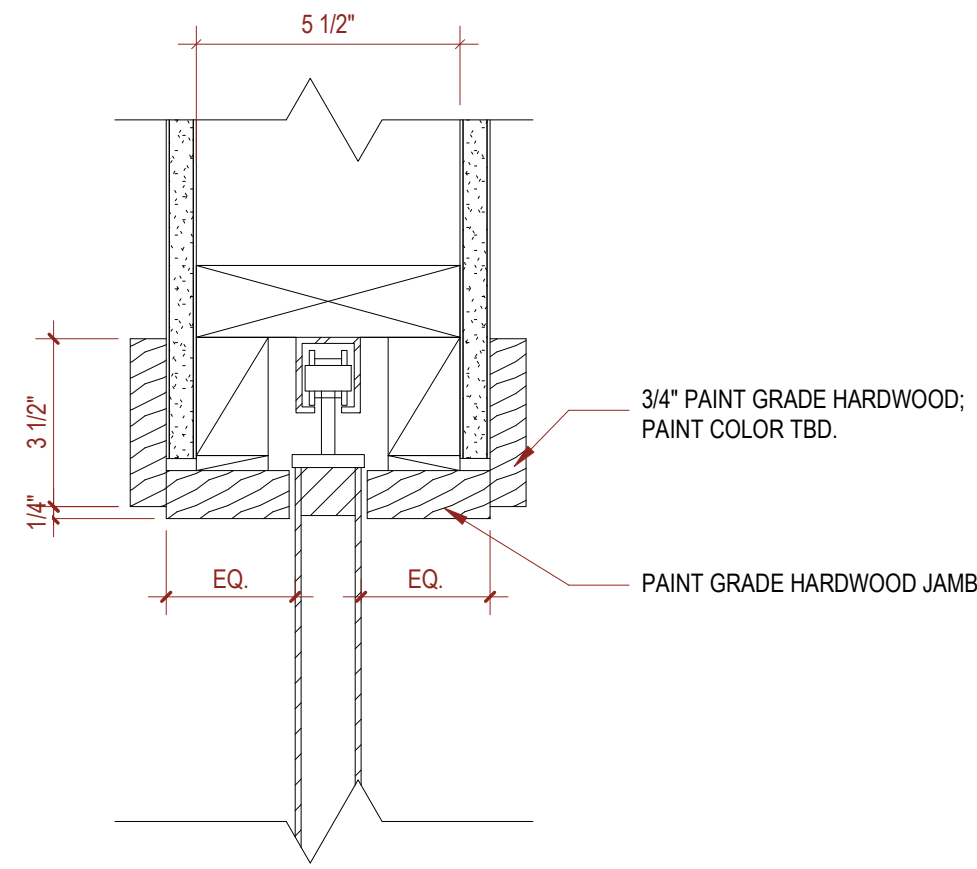
9 Powder Room Elevation 2
1/2" = 1'-0"



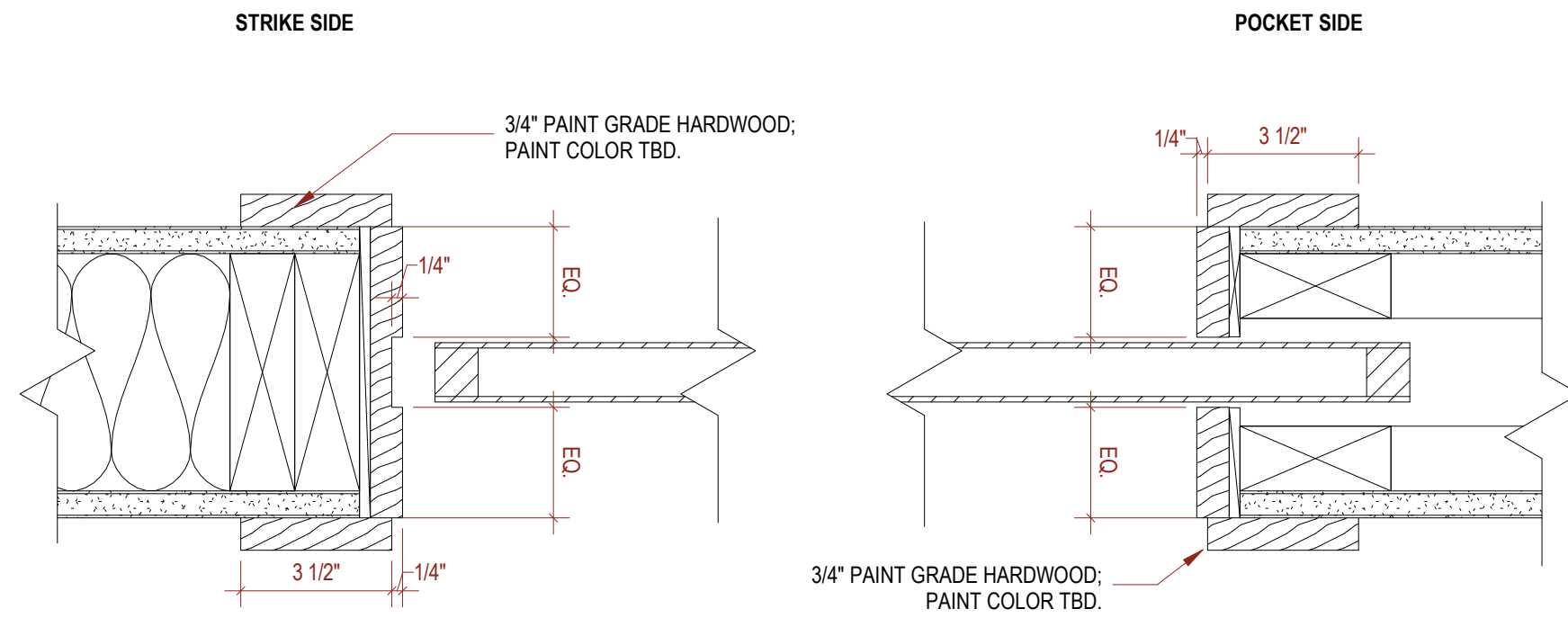
6 Powder Room Elevation 1
1/2" = 1'-0"



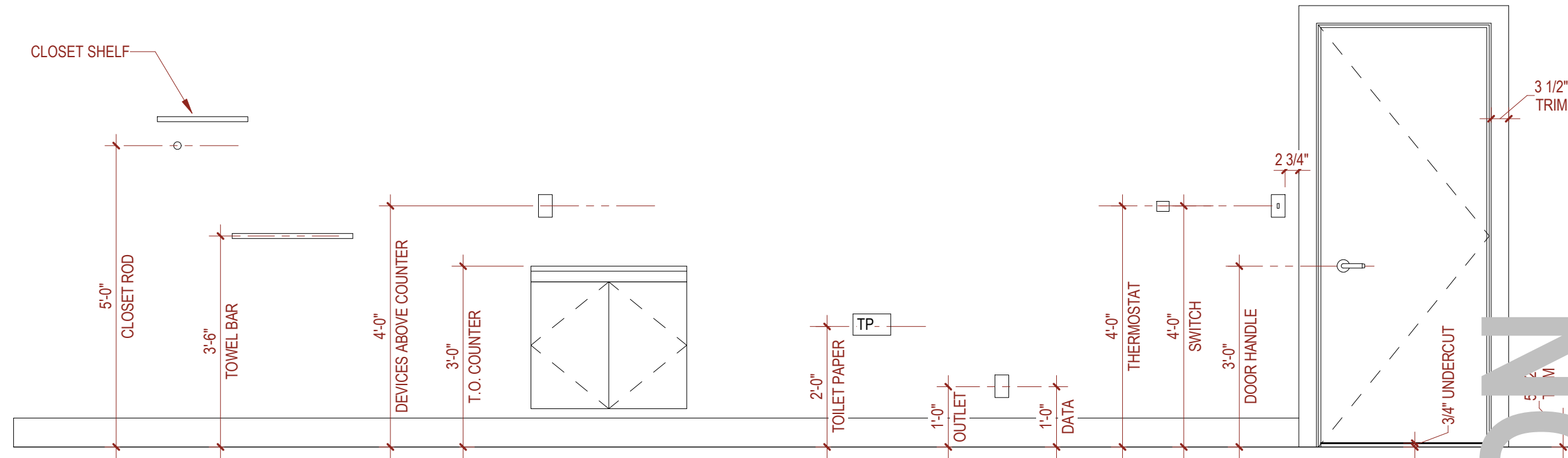
3 Powder Room Enlarged Plan
1/2" = 1'-0"



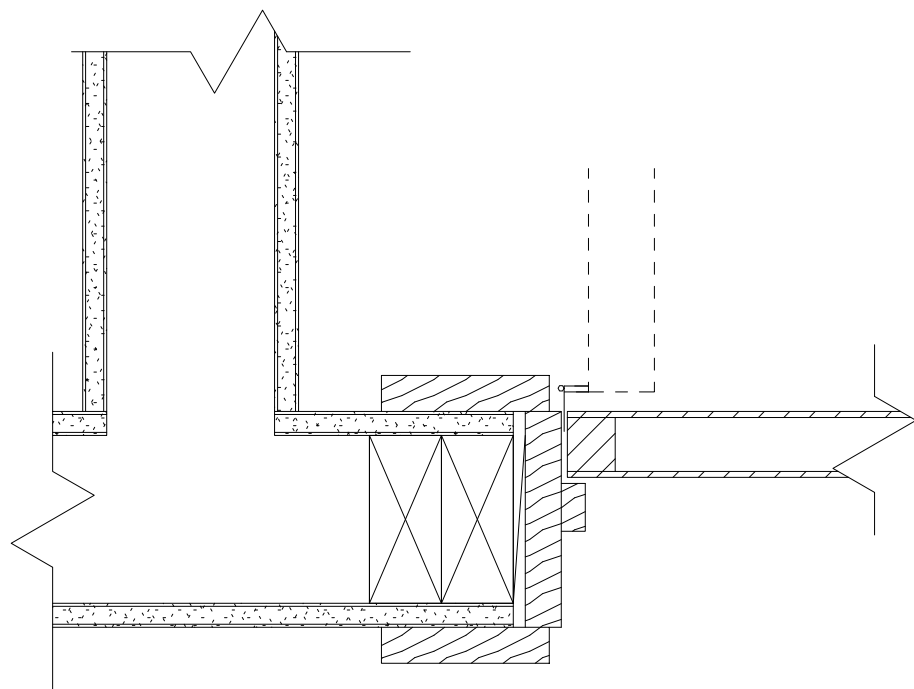
2 **Typ. Pocket Door Head**
3" = 1'-0"



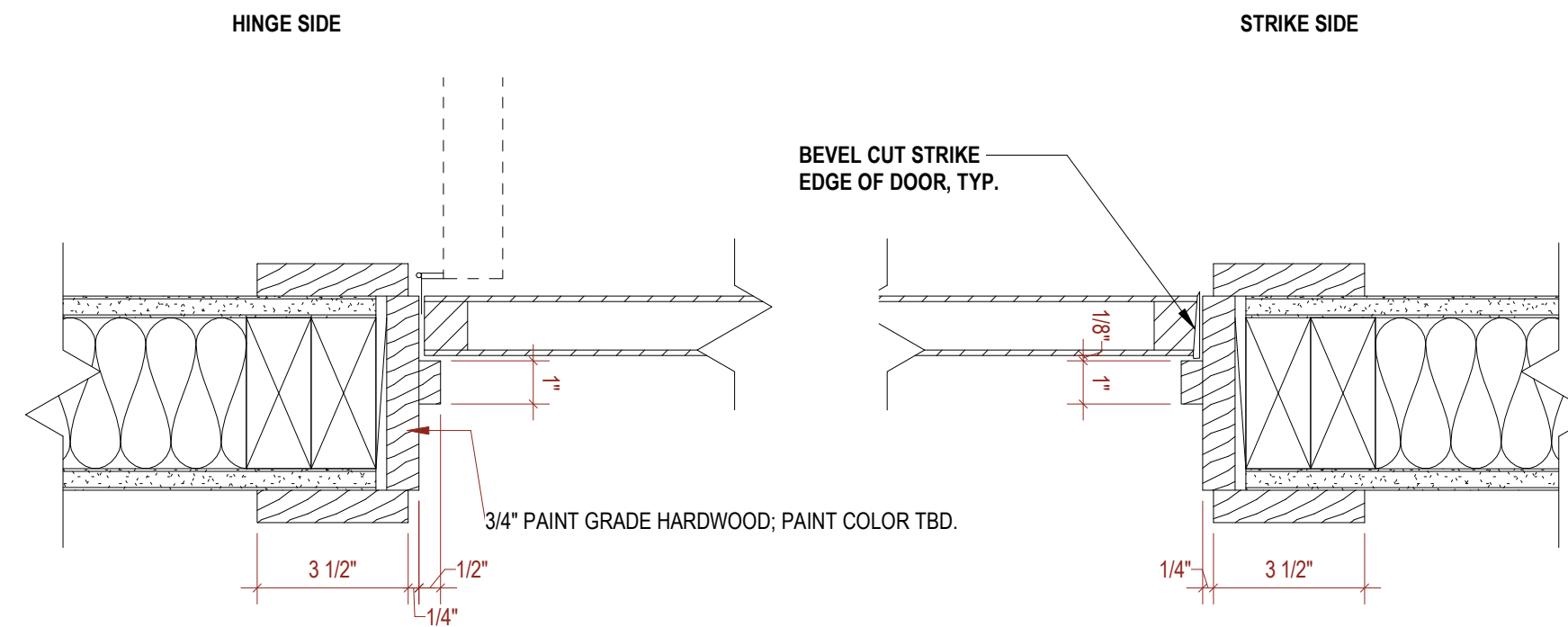
6 **Typ. Pocket Door Jamb**
3" = 1'-0"



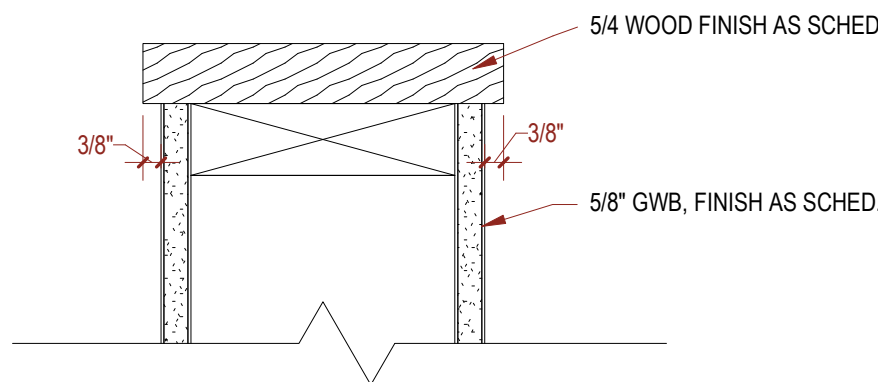
2 **TYP. MOUNTING HEIGHTS**
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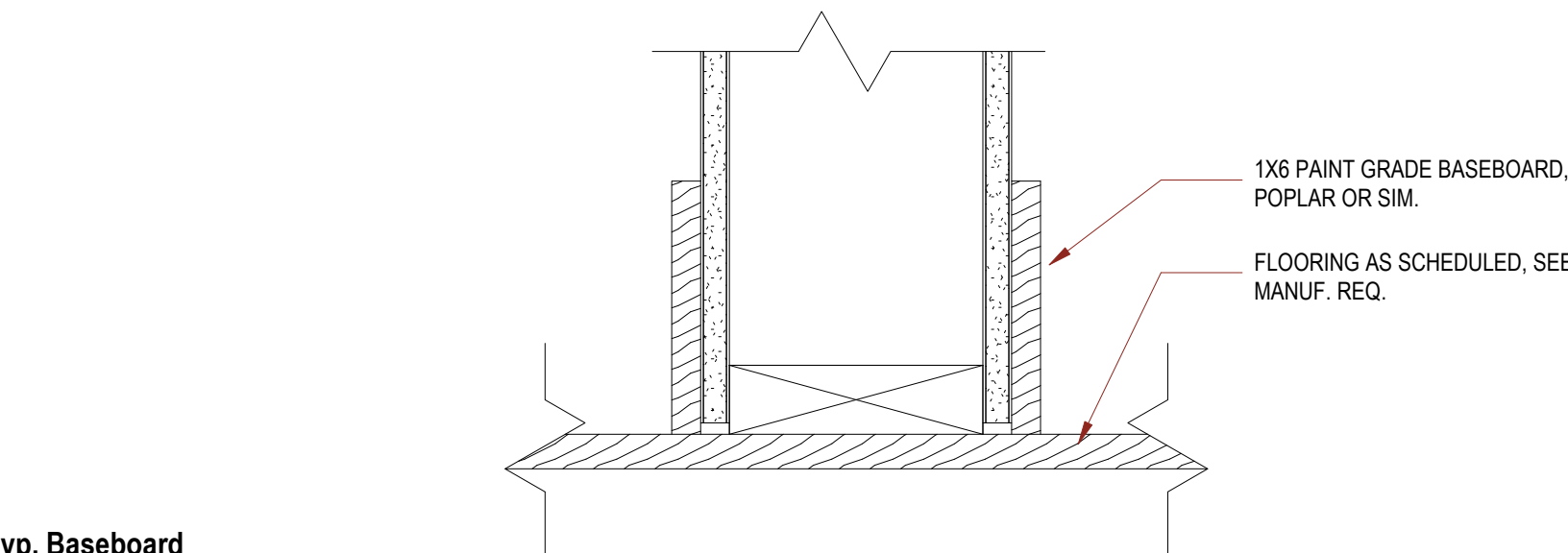
5 **Typ. Interior Door Reveals**
3" = 1'-0"



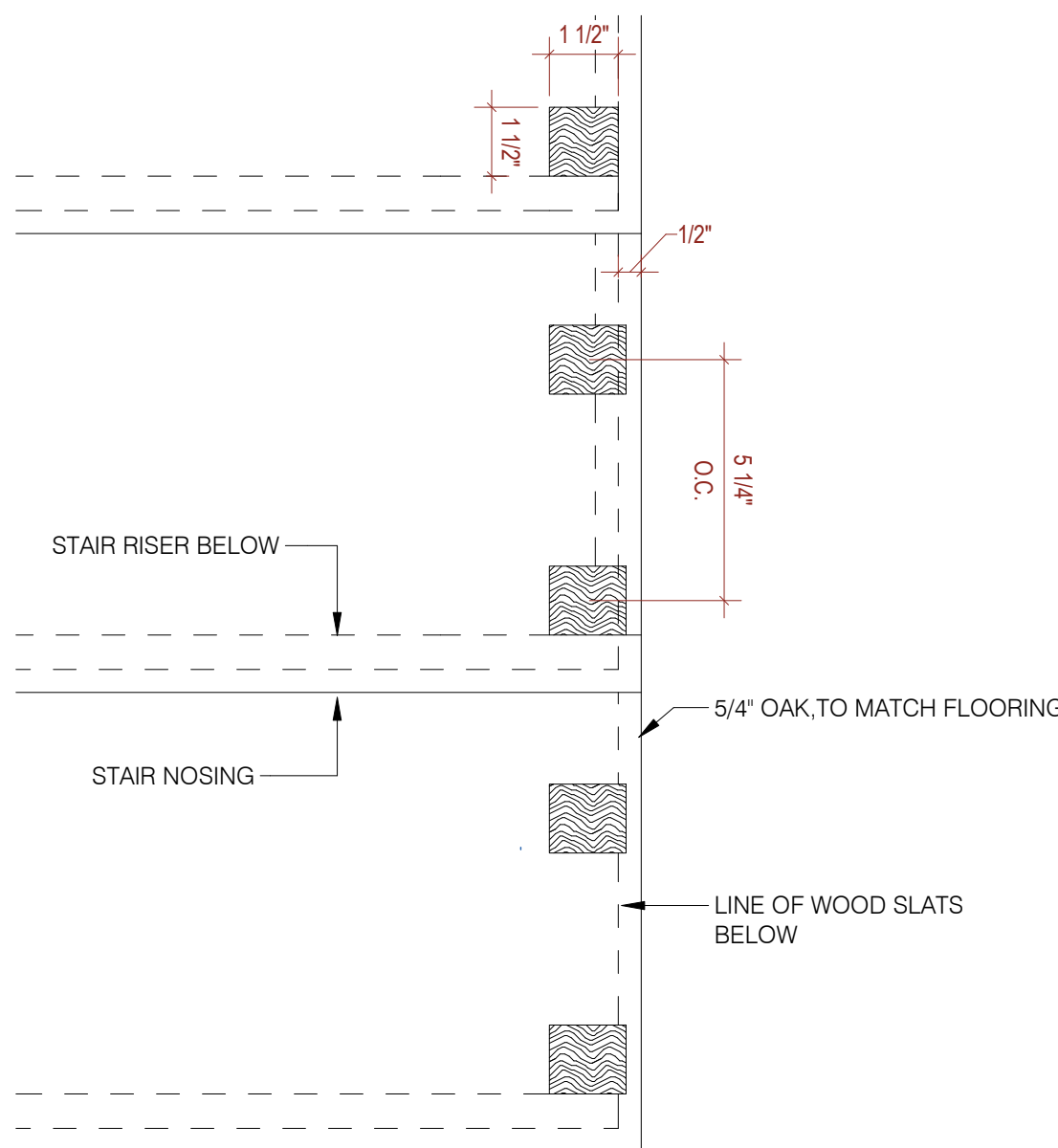
7 **Typ. Butt Hinged Door Jamb**
3" = 1'-0"



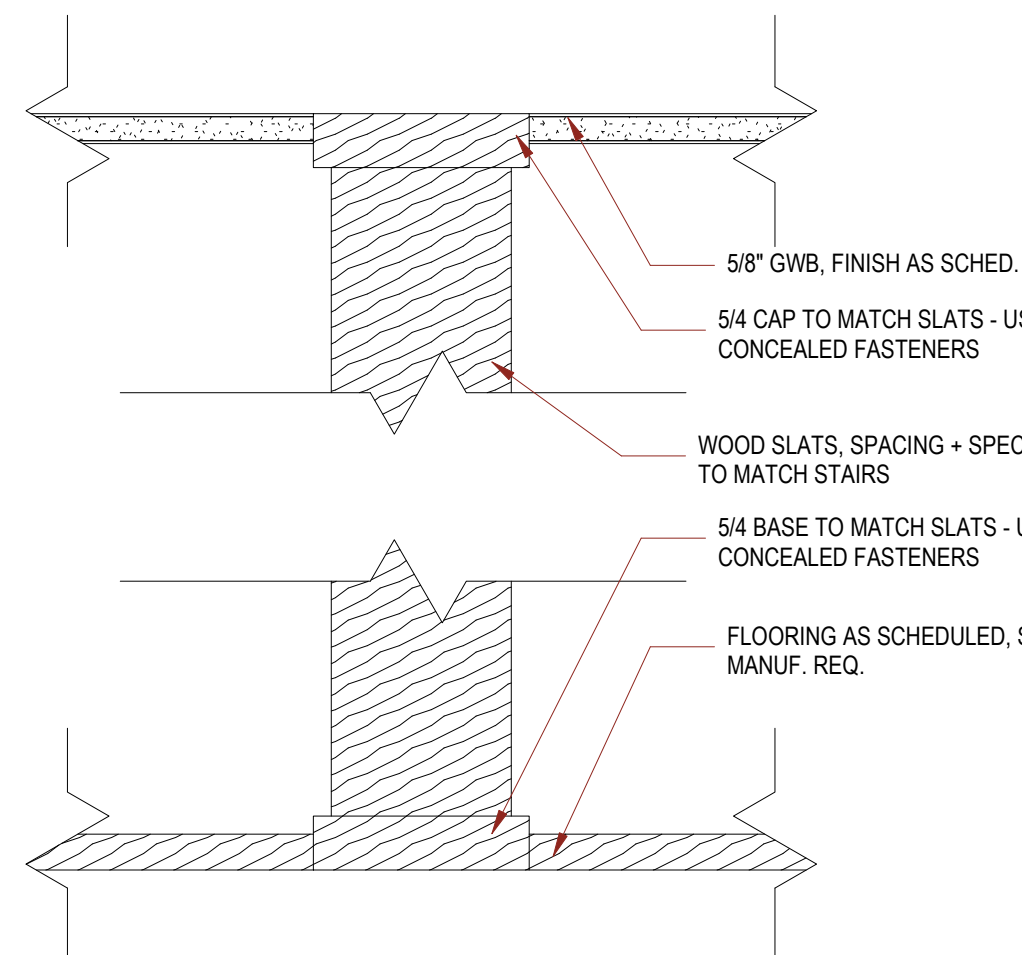
3 **Typ. Handrail Cap Detail**
3" = 1'-0"



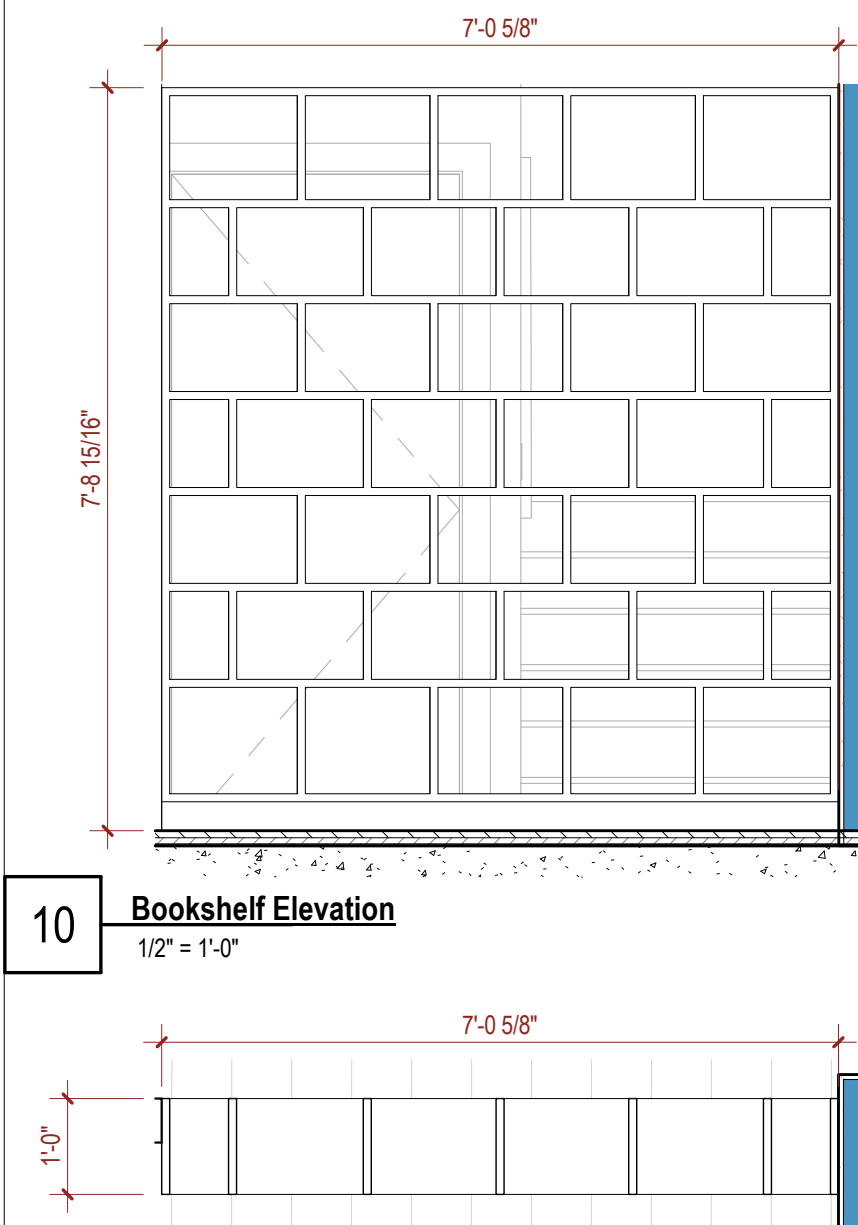
4 **Typ. Baseboard**
3" = 1'-0"



8 **Typ. Stair Plan Detail**
3" = 1'-0"

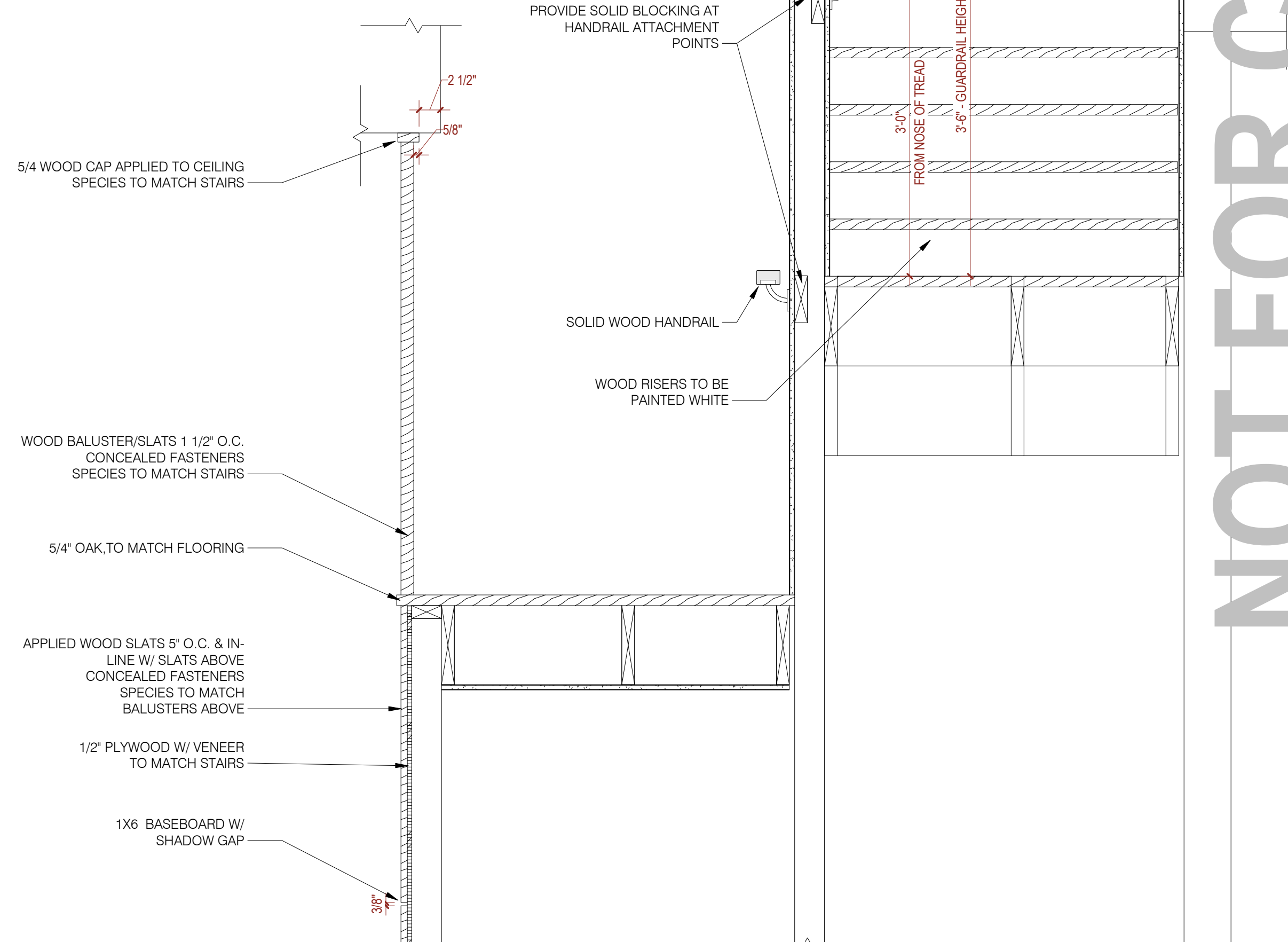


11 **Typ. Slatted Wall Detail**
3" = 1'-0"



10 **Bookshelf Elevation**
1/2" = 1'-0"

9 **Bookshelf Plan**
1/2" = 1'-0"



1 **Stair Section**
1" = 1'-0"

NOT FOR CONSTRUCTION

C) CASEWORK SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	Model	FINISH	WIDTH	HEIGHT	DEPTH	COMMENTS
CW-01	Pull out Cabinet with Interior Track Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 6"	2'- 10 1/2"	2'- 0"	
CW-02	Base Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	2'- 10 1/2"	2'- 0"	
CW-03	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 6"	2'- 10 1/2"	2'- 0"	
CW-04	Base Cabinet Single Door with Deep Corner Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	2'- 10 1/2"	2'- 0"	
CW-05	Pull out Cabinet with Interior Track Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 0"	2'- 10 1/2"	2'- 0"	
CW-06	Refridgerator End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				
CW-07	Refridgerator End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				
CW-08	Upper Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 9 9/16"	1'- 3"	2'- 0"	
CW-09	Upper Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 6"	3'- 0"	1'- 0"	
CW-10	Wall Mounted Shelves with recessed LED Strip Light	Custom		Painted, Color TBD by client				Confirm with Client whether with wall brackets or floating. See Enlarge Interior Elevations for Dims
CW-11	Base Cabinet Single Door with Deep Corner Shaker Style	Reform or sim.		Painted, Color TBD by client	1'- 3"	2'- 10 1/2"	2'- 0"	
CW-12	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 1 13/16"	2'- 10 1/2"	2'- 0"	
CW-13	Base Cabinet 3-Drawer Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 0"	2'- 10 1/2"	2'- 0"	
CW-14	Tall Cabinet Double Door Shaker Style	Reform or sim.		Painted, Color TBD by client	3'- 0"	6'- 10"	1'- 6"	
CW-15	Base Cabinet Single Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 6"	2'- 10 1/2"	2'- 0"	
CW-16	Base Cabinet Single Door Shaker Style	Reform or sim.		Painted, Color TBD by client	2'- 0"	2'- 10 1/2"	2'- 0"	
CW-17	Wall Mounted Shelves - Kitchen Pantry	Custom		Painted, Color TBD by client				Confirm with Client for floating shelves, See Enlarge Interior Elevations for Dims
CW-18	Wall Mounted Shelves - Kitchen Pantry	Custom		Painted, Color TBD by client				Confirm with Client for floating shelves, See Enlarge Interior Elevations for Dims
CW-19	Island End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				To match cabinets
CW-20	Island End Panel Shaker Style	Reform or sim.		Painted, Color TBD by client				To match cabinets
CW-21	Linen Shelves With Door	Custom		Painted, Color TBD by client				Confirm with client
CW-22	36" Harrison Single Bathroom Vanity Sink and Cabinet, No Hardware	West Elm	Harrison	Color Green: Celadon	3'- 0"	2'- 4 3/8"	1'- 6 1/2"	Confirm with client
CW-22a	30" Single Bathroom Vanity Sink and Cabinet, With Hardware	IKEA	HEMNES / RUTSJÖN	Color Blue	2'- 6"	2'- 4 3/8"	1'- 6 1/2"	Confirm with client
CW-23	Base Cabinet Double Door Shaker Style	TBD		TBD by Client	3'- 0"	2'- 10 1/2"	2'- 0"	
CW-24	Closet Shelf + Rod	Custom		TBD by Client	<varies>	<varies>	<varies>	
CW-25	Vanity Sink and Cabinet	TBD		TBD by Client	2'- 3"	2'- 0"	1'- 6"	
CW-26	Bookshelf - Study Room	Custom		TBD by Client				Confirm with Client the design and finishes, See sheet A5.1 for Dims
SS-02	Island Countertop	Butcherblock or sim.		TBD by Client				
SS-03	Pantry Countertop	Butcherblock or sim.		TBD by Client	4'- 0"	0'- 1 1/2"	1'- 6"	
SS-04	Pantry Countertop	Butcherblock or sim.		TBD by Client	7'- 0 1/32"	0'- 1 1/2"	2'- 1"	See Enlarged Plans and Interior Elevations for Dims
SS-05	Laundry Countertop	TBD		TBD by Client				See Enlarged Plans and Interior Elevations for Dims

S) ACCESSORIES SCHEDULE Bath 01					
MARK	DESCRIPTION	MANUFACTURER	MODEL		FINISH
S-01	Chrome Robe Hook	Gatcol	4635A	Chrome	
S-02a	Toilet Paper Holder - Primary Bathroom	TBD		Confirm with Client	
S-02b	Toilet Paper Holder - Bath 01	Kohler or sim.	K-27292-CP	Polished Chrome	
S-02c	Toilet Paper Holder - Bath 02	Kohler or sim.	K-27292-BN	Vibrant Brushed Nickel	
S-02d	Robe Hook - Bath 02 2xder Room	Rejuvenation	Sommerville hook	Brushed Nickle	
S-03	Chrome Robe Hook	Gatcol	4635A	Chrome	
S-04	24" Towel Bar - Bath 02	Kohler or sim.	K-27287-CP	Brushed Nickel	
S-04a	9" Towel Bar - Bath 01	Sure-Loc	SO-TB9 26	Polished Chrome	
S-04b	9" Towel Bar - Powder Room	Concretti	Sink Mounted	Antique	
S-04c	24" Towel Bar - Primary Bathroom	TBD		Confirm with Client	
S-05	Frameless Double Door Medicine Cabinet	TBD		Confirm with Client	
S-06	Single Door Mirrored Medicine Cabinet	Ikea or sim.	102.302.27		
S-07	Frameless Sliding Tub Door	Fleuroco	NSST260R32R-25-40	Brushed Nickel	
S-08	Attic Pull Down Stair	Brosco/Husky or sim.	655	Painted to Match Trim	
S-09	Wall Mounted Mirror	TBD	TBD	TBD	

P) PLUMBING SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
PL-01	32 1/2" Undermount Single Basin Sink	Ekay	EFRU311610TC	Stainless Steel	Confirm With Client
PL-02	Single bowlled stainless steel sink	info@gecanderson.co.uk			
PL-03	Single Hole Lavatory Faucet - Bath 01	Ikea	ENSEN	Chrome Plated	Confirm With Client
PL-03a	Single Hole Lavatory Faucet - Primary Bathroom	TBD	TBD	TBD	Confirm With Client
PL-03b	Single Hole Lavatory Faucet - Bath 02	Delta	35749LF-SS	TBD	Confirm With Client
PL-05	Diverter/ Temperature Control	Hansgrohe	Croma - 04908820		
PL-06	Shower Faucet - Primary Bathroom	TBD	TBD	TBD	Confirm With Client
PL-07	Shower Set - Bath 01	TBD	TBD	TBD	Confirm With Client
PL-08	Toilet	TBD	TBD	TBD	Confirm With Client
PL-09	Tiled Shower Base With Tiled Curb	TBD	TBD		Confirm With Client
PL-10	Shower Set + Tub Filler	TBD	TBD	TBD	Confirm With Client
PL-11	Acrylic Tub + Apron Front	TBD	TBD	TBD	Confirm With Client
PL-12	Wall Mount Sink + Antique Faucet	Concretti	Mini San Francisco + 2 Handle	Turquoise + Antique	Confirm with Client
PL-13	40-Gal. Electric Water Heater	AO Smith or sim.	ENLB-40		Plumb in-series and place the 2nd tank on a switch
PL-14	Pressure Tank	WATTS	PLT-5		
PL-15	Square design tile-in shower drain	KOHLER Co.	NA		Central Drain
PL-16	Hose Bib	Aquor or sim.	HHP002	Stainless Steel	

M) MECHANICAL EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
M-01	Heat Pump Air Handling Indoor Wall Mounted Unit - Cassette	Mitsubishi or Sim.	9000 BTU Minisplit MSZ- FS09NA	
M-02	Ceiling Concealed Ducted System	Mitsubishi Electric Corporation	SEZ-M25DA or Sim.	
M-03	Energy Recovery Ventilator	Zehnder	Q350	
M-04	Ceiling Return Grille	Zehnder	Luna	
M-05	Ceiling Supply Grille	Zehnder	Luna	
M-06	Heat Pump Outdoor Unit	Mitsubishi or Sim.	MUZ-FS09NA	
M-07	Exterior Grille Exhaust	Zehnder	150 MM	Stainless Steel
M-08	Exterior Grille Intake	Zehnder	150 MM	Stainless Steel

E) ELECTRICAL EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
EL-01	Electrical Panel	TBD		
EL-02	Electric Baseboard Heater	Cadet	F Series 30" 2F500-1W	
EL-03	Overhead Garage Controls	TBD by PM	TBD	
EL-04	Soladeck Junction Box	TBD	TBD	Verify With Solar Contractor

L) LIGHTING SCHEDULE						
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COLOR TEMP.	COMMENTS
LI-01	4" Recessed Downlight	NDR Electric	RZR-CCT-400	White	3000 K	
LI-02	4" Recessed Downlight - Wet Rated	NDR Electric	RZR-CCT-400	White	3000 K	
LI-03	4" Recessed Directional Downlight	NDR Electric	OB-400	White	3000 K	
LI-04	14" Round Flush Mount	DALS Lighting	CFLED14-CC-WH CFLED14-CC-SN CFLED14-CC-BK	White	2700 K	
LI-04a	15.7" Round Flush Mount - Pantry	TBD by Client	VKC-1724-3 - Keno Ceiling Lamp	White	2700 K	
LI-04b	11.8" Round Flush Mount - Bathrooms 1 & 2	TBD by Client	VKC-LM 3027-01 - Wooden Geometric Ceiling Light	White	2700 K	
LI-04c	13" Round Flush Mount - Upstairs Bedrooms	Lumens	JDG2542863	White	2700 K	Confirm finishes with client
LI-05	Utility Light (Motion Activated)	Columbia	LCL	White	3000 K	
LI-06	Pendant - Solid Shade	Rorypots	TBD by Client	TBD	3000 K	Confirm with client
LI-07	Pendant - Solid Shade	Rorypots	TBD By Client	TBD	3000 K	Confirm with client
LI-08	LED Vanity Light - Horizontal (Bath 01+02)	Kuzco Lighting or sim.	VL62224-BK VL62224-CH	TBD	3000 K	
LI-09	LED Vanity Light - Horizontal (Primary)	Kuzco Lighting or sim.	VL62224-BK VL62224-CH	TBD	3000 K	
LI-09a	LED Wall Mounted Vanity Light - (Powder Room)	Cedar & Moss	Little Luna	TBD	3000 K	Confirm with client
LI-10	3.5" Cylinder Exterior Wall Light	Lusa	Cylinder Wall Sconce	TBD		Confirm with client
LI-11	Motion Activated Flood Light	Heath Zenit or Sim.	HZ-5718-RS-G	Black	3000 K	
LI-12	56" Ceiling Fan	Minka Aire or sim.	F626L-CL	Black		
LI-13	Interior Wall Mounted Sconce	TBD by Client	TBD By Client	TBD	3000 K	

(A) APPLIANCE SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
AP-01	36" Range Hood	Zline	KB-36	Stainless Steel	Install T95 Remote Blower Dual Motor and restrict air flow to 280 cfm - MECH Damper Confirm with Client
AP-02	Microwave	TBD	TBD	TBD	
AP-03	33" Wide Bottom Refrigerator	LG	LRDCS2603S	Stainless Steel	
AP-04	24" Dishwasher	Bosch	SHP78CM5N	Stainless Steel	
AP-05	Single Unit WashTower	LG	WKHC252HBA		
AP-06	36" Induction Range	Bertazzoni Professional Series	PRO365INMXV	Stainless Steel	
AP-08	Front Load Ventless Dryer	LG	DLHC1455W		

MATERIAL FINISH SCHEDULE				
MARK	MATERIAL DESCRIPTION	MANUFACTURER	FINISH	COMMENTS
Exterior				
AL-01	Exterior Window and Door Aluminum Cladding	UNILUX	RAL9016M - TRAFFIC WHITE MATT	
AL-02	Head and Sill Flashing	UNILUX	RAL9016M - TRAFFIC WHITE MATT	<varies>
CN-01	Cast-in-Place Concrete For Exterior Shower	N/A	Unfinished	
MT-01	24 Ga. Aluminum, Standing Seam Roof	Everlast or Englert	Matte Black	
SD-01	24 Ga. Aluminum, Base Metal Flashing	Englert or sim.	Dove Gray or Slate Gray	
ST-01	Natural Thin Red Stone Veneer Flooring	Local		
WD-02	8" Vertical Wood Siding - Shiplap w/ 1/4" Gap.	TBD - Local	TBD by Client	Space the stones apart in order to drain
WD-03	Wall mounted Cedar Bracket	Local	Stained Eastern White Cedar or sim, Confirm w Client	<varies>
WD-04	Fascia 1x6 - Painted Exterior Trim	Custom	Painted, Confirm w Client	
WD-05	Tongue & Groove V-match Clear Cedar or sim	Lifespan Solid Select or Sim.	Painted to Match Roof	
WD-08	Exterior Wood Deck Flooring	TBD - Local	Painted/Stained, Confirm w Client	Apply water sealant
WD-09	Exposed Architectural and Kiln Dried Structural Timber	Black Locust or Sim.	Alaskan Yellow Cedar	Confirm with client if stain needed
WD-10	5/4" Lifespan Solid Seledt Trim or equivalent - Extension Jambs Window + Door	Cedar	Stained, Confirm w Client	
WD-11	8" Vertical Wood Siding - Shiplap w/ 1/4" Gap.	Pine	Painted Pine, Color SW7006 Extra White	
		TBD	Stained Eastern White Cedar or sim, Confirm w Client	Apply water sealant
Interior				
BS-01	1x6 Painted Poplar or Sim. - Baseboard	Pine	Painted, Low VOC Paint - Color TBD	
CN-02	Cast-in-Place Concrete	N/A	Unfinished	
FL-01	Reclaimed & Antique Plank Flooring	vermontplankflooring	Oak, Finish TBD by Client	Random Width
FL-02	Reclaimed & Antique Plank Flooring	vermontplankflooring	Oak, Finish TBD by Client	Narrow Width
GB-01	Gypsum Wall Board	TBD	Level 4 Smooth, Painted, Color TBD	
GB-02	Ceiling Gypsum Board	TBD	Level 4 Smooth, Painted, Color TBD	
GL-01	30" Glass Screen Shower Panel - Hinged Door	Dreamline or Sim.	TBD by Client	Confirm with Client
GL-02	42" Hinged Glass Shower Door - Hinged Door	Dreamline or Sim.	TBD by Client	Confirm with Client
SS-01	Stone Countertop + 4" backsplash	Caesarsstone	TBD by Client	Confirm with Client
TL-01	Stove backsplash - Sqaure Level Pattern - Size (4-1/8" x 4-1/8")	FireClay Tile	TBD by Client	Grout Color: TBD by Client
TL-02	Primary Bath Floor Tile	TBD by Client	TBD by Client	
TL-03	Primary Shower Floor Tile	TBD by Client	TBD by Client	
TL-04	Primary Shower Wall Tile	TBD by Client	TBD by Client	
TL-05	Laundry Floor Tile	TBD by Client	TBD by Client	
TL-06	Powder Bath Floor Tile	TBD by Client	TBD by Client	
TL-07	Bath 01 Floor Tile	TBD by Client	TBD by Client	
TL-08	Bath 01 Wall Tile	TBD by Client	TBD by Client	
TL-09	Bath 02 Floor Tile	TBD by Client	TBD by Client	
TL-10	Bath 02 Wall Tile	TBD by Client	TBD by Client	
TL-11	Entry Floor Tile	TBD by Client	TBD by Client	

NOT FOR CONSTRUCTION

GO Logic LLC
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Belfast, Maine 04915
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DESIGN + CONSTRUCTION

SCHEDULES

Thornburgh Rosenfeld Residence
147 S. Cove Rd,
Burlington, VT 05401

REVISIONS:

No.	Description	Date

DATE: 08/26/2025
ISSUE: PERMITTING SET
REV01

SCALE:

A6.1

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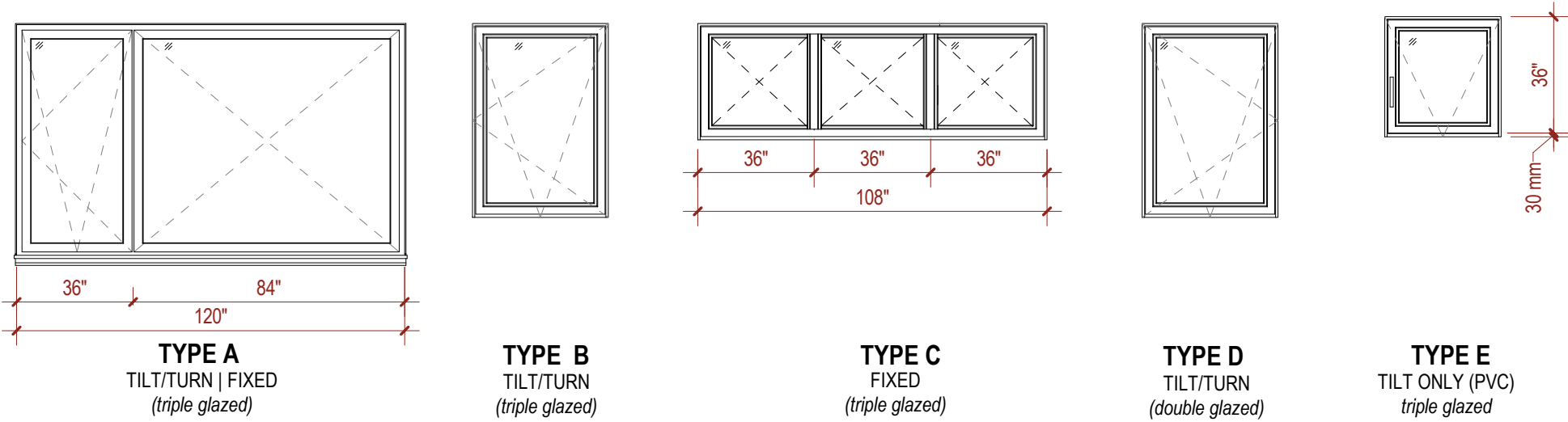
WINDOW SCHEDULE

MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	WIDTH (includes Enl.)	HEIGHT (includes Enl.)	WIDTH (in. includes Enl.)	HEIGHT (in. includes Enl.)	ENL. L/R	SILL CONNECTOR BELOW	SILL HEIGHT	T.O. WINDOW	FINISH EXTERIOR	FINISH INTERIOR	HINGE SIDE (as seen from interior)	MUNTIN STYLE	SAFETY GLASS	INSECT SCREEN	HARDWARE	INT. WINDOW SILL	EXT. EXTENSION JAMBS	SHADING	HEAD FLASHING PROFILE	SILL FLASHING PROFILE	COMMENTS
1	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	3'-11"	42.00"	47.00"	0/0	-	3'-7"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
2	A	2 PIECE MULLED TILT TURN/FIXED WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	10'-0"	6'-0"	120.00"	72.00"	0/0	-	1'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT FIXED	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
3	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
4	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
5	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
6	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
7	E	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	2'-9"	36.00"	33.00"	0/0	-	4'-8 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
8	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
9	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	Yes	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
10	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
11	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
12	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
13	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	No	YES	W1	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
14	C	3 PIECE MULLED FIXED WINDOW - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	9'-0"	3'-0"	108.00"	36.00"	0/0	-	4'-5 1/4"	7'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	FIXED FIXED FIXED	NONE	Yes	N/A	NA	Stained Grade Hardwood	WD-04	BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	
15	E	SINGLE TILT ONLY WINDOW - TRIPLE PANE	UNILUX	ALUICLAD PVC - ISOSTAR	3'-0"	3'-1 3/16"	36.00"	37.18"	0/0	30mm			WHITE		BOTTOM	NONE	Yes	YES	W2	Tile		BY GC	76mm, 68mm, 27mm/ RAL9016M	165MM / RAL9016M	Frosted Glass. Handle on Lower Left
17	D	SINGLE TILT TURN WINDOW - DOUBLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	No	YES	W1	TBD		BY GC	76mm, 47mm, 27mm/ RAL9016M	110MM / RA9016M	
18	D	SINGLE TILT TURN WINDOW - DOUBLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE WCIRCUMFERENTIAL-FRAME GROOVES 5mm.23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	No	YES	W1	TBD		BY GC	76mm, 47mm, 27mm/ RAL9016M	110MM / RA9016M	

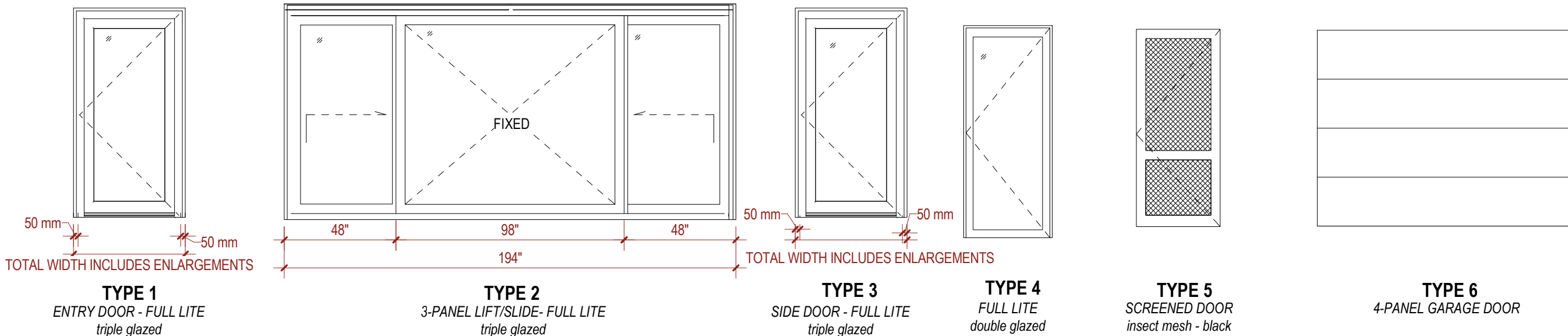
EXTERIOR DOOR SCHEDULE

MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	WIDTH (Includes Enl.)	HEIGHT	WIDTH (In. Includes Enl.)	HEIGHT (In.)	SILL HEIGHT	T.O. DOOR	WOOD ONLY ENLARGEMENT L/R	FINISH EXTERIOR	FINISH INTERIOR	HINGE SIDE (as seen from interior)	OPENING DIRECTION	MUNTIN STYLE	SAFETY GLASS	INSECT SCREEN	HARDWARE SET	HEAD FLASHING PROFILE	COMMENTS
1.0	1	ENTRY DOOR - FULL LITE - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE	3'-11"	7'-3"	47.00"	87.00"	0'-3"	7'-6"	50 MM / 50 MM	RAL5011MS - STEEL BLUE MATT TEXTURED	PINE 137 TRANSPARENT MATT	RIGHT	INWARD	NONE	Yes	N/A	W3	76mm, 47mm, 27mm/ RAL9016M	
3.0	2	LIFT + SLIDE - FULL LITE TRIPLE PANE 3 PANEL	UNILUX	ALUICLAD WOOD - MODERNLINE	16'-2"	7'-6"	194.00"	90.00"	0'-0"	7'-6"	0/0	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	N/A	PANELS SLIDE INWARDS	NONE	Yes	YES	W4	76mm, 47mm, 27mm/ RAL9016M	
5.0	3	SIDE ENTRY DOOR - FULL LITE - TRIPLE PANE	UNILUX	ALUICLAD WOOD - MODERNLINE	3'-11"	7'-3"	47.00"	87.00"	0'-3"	7'-6"	50 MM / 50 MM	RAL5011MS - STEEL BLUE MATT TEXTURED	PINE 137 TRANSPARENT MATT	RIGHT	INWARD	NONE	Yes	N/A	W3	76mm, 47mm, 27mm/ RAL9016M	
14.0	5	SCREEN DOOR - WOOD FRAMED HINGED DOOR	CUSTOM	CUSTOM-STILE AND RAIL/SIZE TO MATCH ADJACENT PORCH FRAMING	3'-9 5/32"	6'-9 3/4"	45.17"	81.75"				CEDAR TO MATCH SIDING	CEDAR TO MATCH SIDING	RIGHT	OUT	NONE		YES	TBD		By GC. Confirm with client
14.1	5	SCREEN DOOR - WOOD FRAMED HINGED DOOR	CUSTOM	CUSTOM-STILE AND RAIL/SIZE TO MATCH ADJACENT PORCH FRAMING	3'-8 13/32"	6'-5 25/32"	44.42"	77.80"				CEDAR TO MATCH SIDING	CEDAR TO MATCH SIDING	LEFT	OUT	NONE		YES	TBD		By GC. Confirm with client
24.0	4	GARAGE ENTRY DOOR - FULL LITE DOUBLE PAN	THERMATRU	SMOOTHSTAR	3'-0"	7'-6"	36.00"	90.00"	0'-0"	7'-6"		RAL5011MS - STEEL BLUE MATT TEXTURED	TBD by client	RIGHT	OUT	NONE		NO	W5	76mm, 47mm, 27mm/ RAL9016M	
24.1	6	OVERHEAD GARAGE DOOR	CHI	OVERLAY CARRIAGE HOUSE - TBD by Client	9'-0"	7'-0"	108.00"	84.00"	0'-0"	7'-0"	0/0	RAL9016M - TRAFFIC WHITE MATT	TBD by client	N/A	N/A	NONE	No	N/A	TBD	76mm, 47mm, 27mm/ RAL9016M	Order Primer paint as supplier recommendation,final finish to be applied on site by GC
24.2	6	OVERHEAD GARAGE DOOR	CHI	OVERLAY CARRIAGE HOUSE - TBD by Client	9'-0"	7'-0"	108.00"	84.00"	0'-0"	7'-0"	0/0	RAL9016M - TRAFFIC WHITE MATT	TBD by client	N/A	N/A	NONE	No	N/A	TBD	76mm, 47mm, 27mm/ RAL9016M	Order Primer paint as supplier recommendation,final finish to be applied on site by GC

WINDOW TYPES (AS SEEN FROM INTERIOR. SEE SCHEDULE FOR OPENING DIRECTIONS)



EXTERIOR DOOR TYPES (AS SEEN FROM INTERIOR. SEE SCHEDULE FOR OPENING DIRECTIONS)



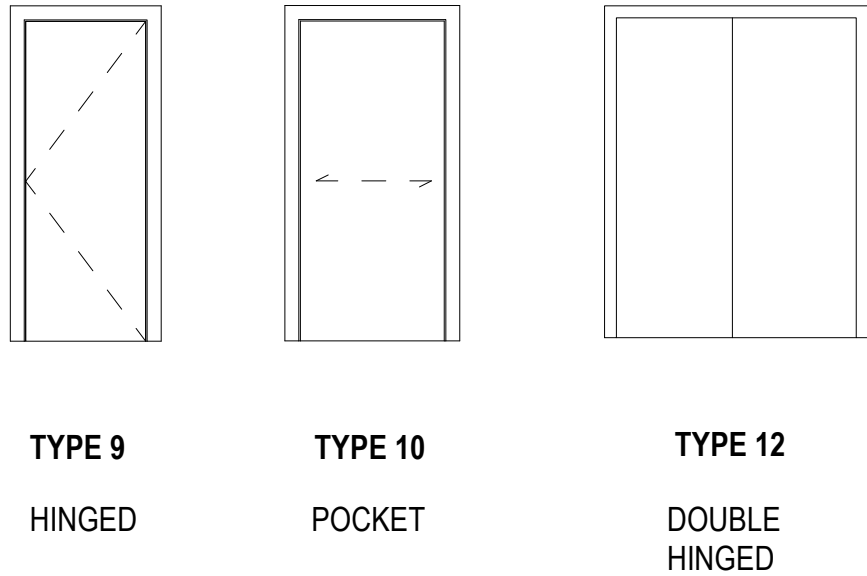
HARDWARE SET SCHEDULE

SET	DESCRIPTION	MANUFACTURER	MODEL	LOCKSET FUNCTION	TRACK	HINGES	FINISH	COMMENTS
W1	Window Handle	UNILUX	Angular Comfort Shape	n/a	n/a	Concealed	Stainless Steel	
W2	Window Handle - PVC	UNILUX	Basic PVC Handle	n/a	n/a	Concealed Hinge	White	
W3	Side/Entry Door Handle	UNILUX	Angular Comfort Shape -Set 4012	Keyed Alike - Multi Point Lockset w/ Hooks and Bolts (MFVA) cylinder by Mfg.	n/a	HINGE, Exposed Hinges - Caps To Match Handle Finish	Stainless Steel	Keyed Alike
W4	Lift & Slide Door Handle	UNILUX	Standard Lift + Slide Handle	Keyed Alike	n/a	Manufacturer Spec.	Stainless Steel	
W5	Garage Hinged Door Handle	Thermatru or Sim.	Forté Lever	Keyed Alike	n/a	Exposed	Brushed Nickel	
W6	Bed & Bath Knob	Schlage	Bowery	Privacy	n/a			
W7	Hall & Closet Knob	Schlage	Bowery	Passage	n/a			
W8	Pocket/Sliding Door Bed & Bath Pull	Schlage	Pocket Door Lock - Model: 991-619	Privacy	Brosco Catalog Johnson Series 1500			
W9	Pocket/Sliding Door Hall & Closet Pull	Schlage	Pocket Door Pull - Model 990-619	Passage	Brosco Catalog Johnson Series 1500			

INTERIOR DOOR SCHEDULE

MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	WIDTH	HEIGHT	THICKNESS	HDWR SET	COMMENTS
6.1		Framed Opening	NA	NA	NA	3'-6"	7'-0"	0'-0"	(none)	
7.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
8.1	12	Double Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	4'-0"	7'-0"	0'-1 3/8"	W7	
9.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
9.2	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
11.1	10	Single Door Pocket Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
12.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
12.2	10	Single Door Pocket Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	2'-6"	7'-0"	0'-1 3/8"	W6	
13.1	10	Single Door Pocket Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	2'-8"	7'-0"	0'-1 3/8"	W6	
18.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
18.2	12	Double Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	4'-0"	7'-0"	0'-1 3/8"	W7	
19.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
20.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
20.2	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
21.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
21.2	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
22.1	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
22.2	9	42" Hinged Glass Shower Door	Dreamline	D1300672-01		2'-6"	7'-0"	0'-0 15/32"	(none)	Confirm with Client
22.3	9	Single Door Hinged Solid Core	Brosco (or approved EQ.)	1-3/8" Flush Panel	Primed	1'-8"	7'-0"	0'-1 3/8"	(none)	
23.1	E	Bi-Fold Door - Flush Panel - 1-3/8" Solid Procore	Brosco (or approved EQ.)	B-2FD		2'-3"	6'-8"	0'-1 3/8"	W6	

INTERIOR DOOR TYPES (SEE SCHEDULE FOR OPENING DIRECTIONS)



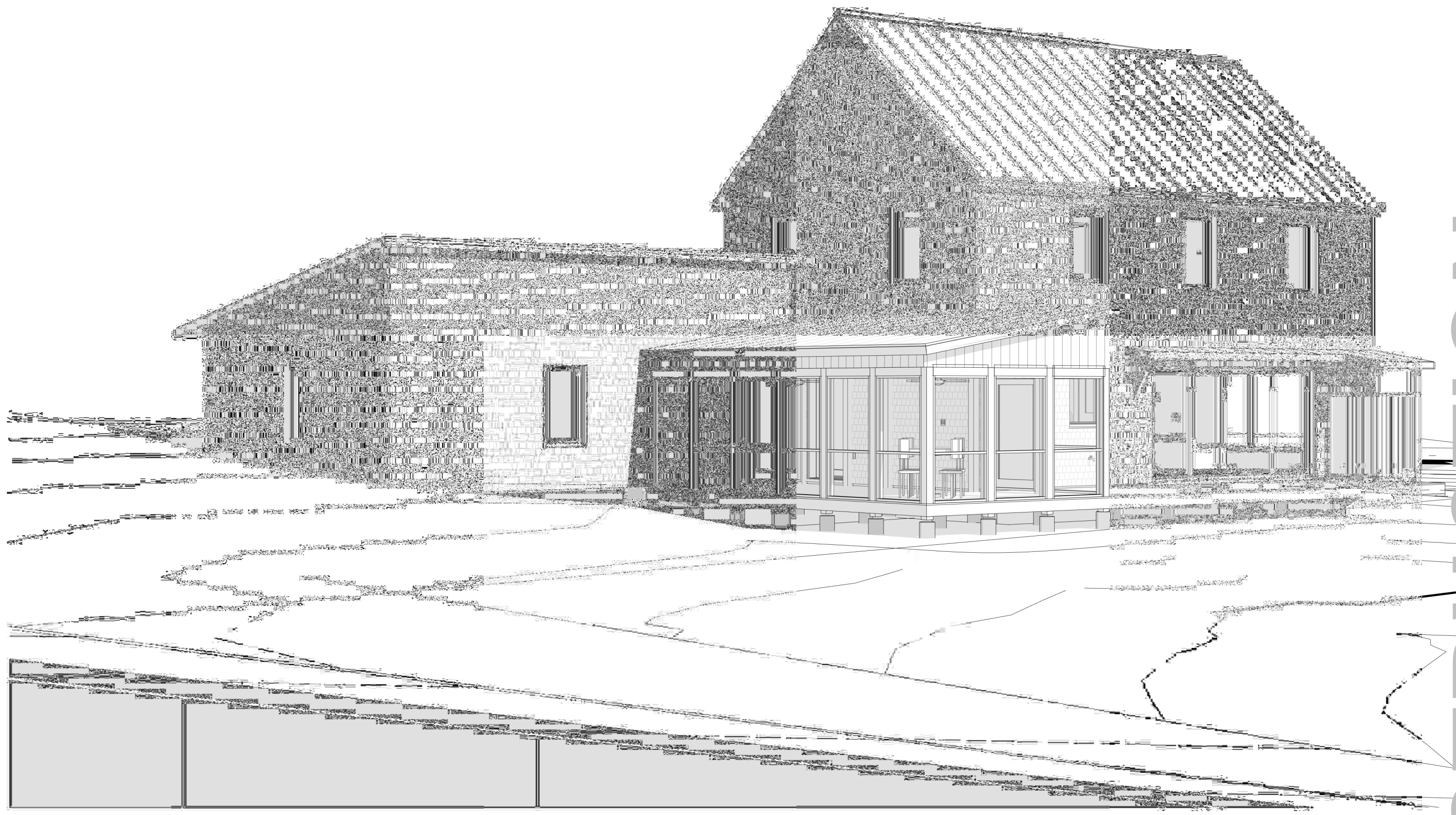
REVISIONS:

No.	Description	Date
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1

Perspective View 1



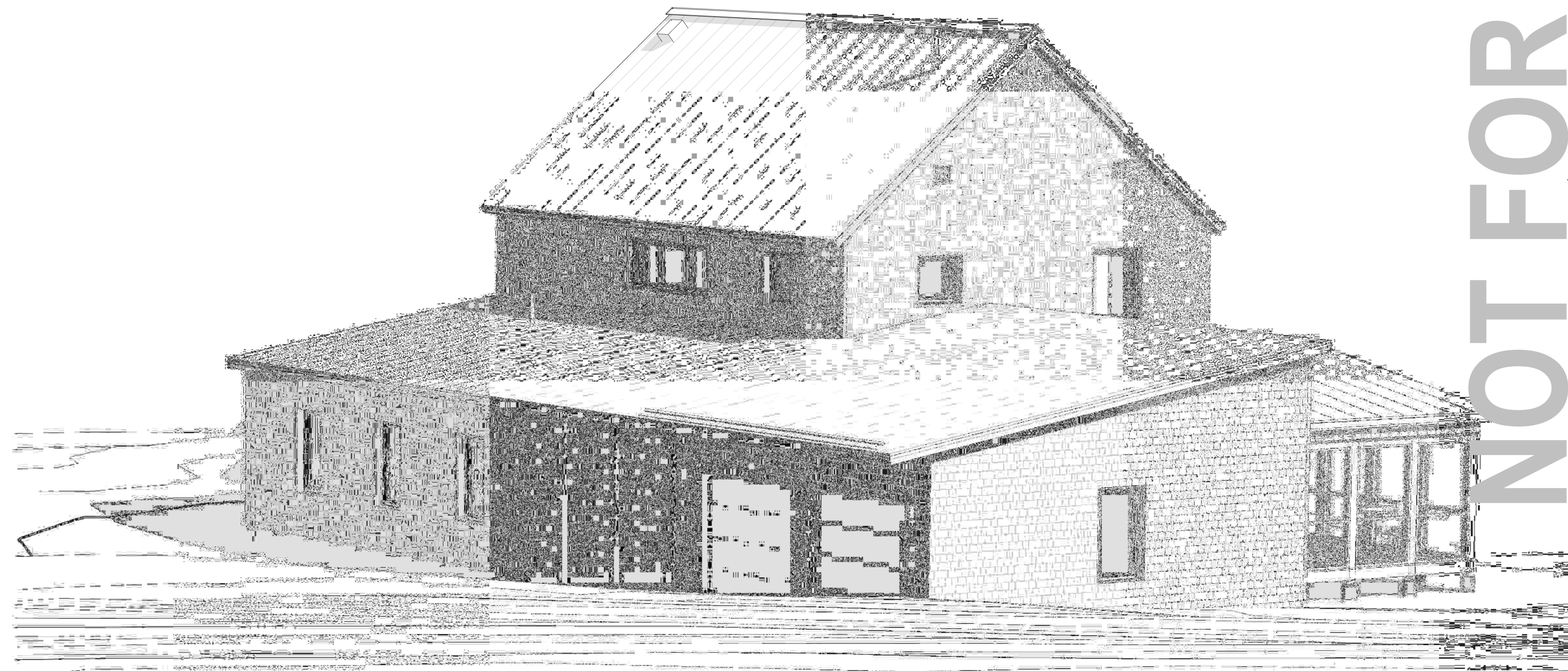
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Perspective View 2



3

Perspective View 3



4

Perspective View 4

NOT FOR CONSTRUCTION

PERSPECTIVES

REVISIONS:

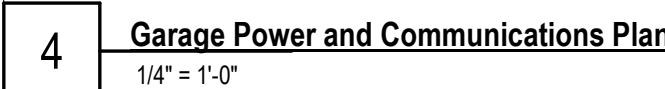
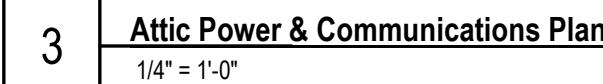
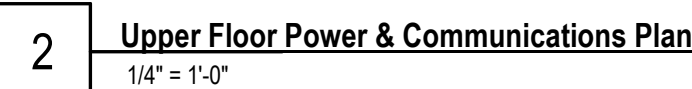
No. Description Date

DATE: 08/26/2025

ISSUE: PERMITTING SET
REV01

SCALE:

	ETHERNET
	CABLE / SATELLITE
	TELEPHONE / DATA
	EXHAUST FAN
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	ELECTRIC METER
	GAS METER
	TIMER
	JUNCTION BOX
	ROUTER / MODEM
	THERMOSTAT
	TELEVISION
	DUPLEX OUTLET
	GFI DUPLEX OUTLET
	WATERPROOF DUPLEX OUTLET (WITH GFCI PROTECTION)
	SWITCHED DUPLEX OUTLET
	220V OUTLET
	ELECTRICAL VEHICLE CHARGING OUTLET
	BACK UP GENERATOR OUTLET
	QUAD OUTLET
	DUPLEX FLOOR OUTLET
	SWITCHED DUPLEX FLOOR OUTLET
	QUAD FLOOR OUTLET
	DEDICATED CIRCUIT / HARDWIRED APPLIANCE OR EQUIPMENT
	SWITCH
	DIMMER



AIR SEAL ALL EXTERIOR PENETRATIONS ON HOUSE
PRESERVE CONTINUOUS AIR BARRIER

NOT FOR CONSTRUCTION

POWER AND COMMUNICATIONS PLANS

REVISIONS

b.	Description	Date
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DATE: 08/26/2025

ISSUE: PERMITTING SET
REV01

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

AE1.0

Page 30 of 13

GO Logic LLC
52 Little River Drive
Belfast, Maine 04915
207.338.1566
www.gologic.us

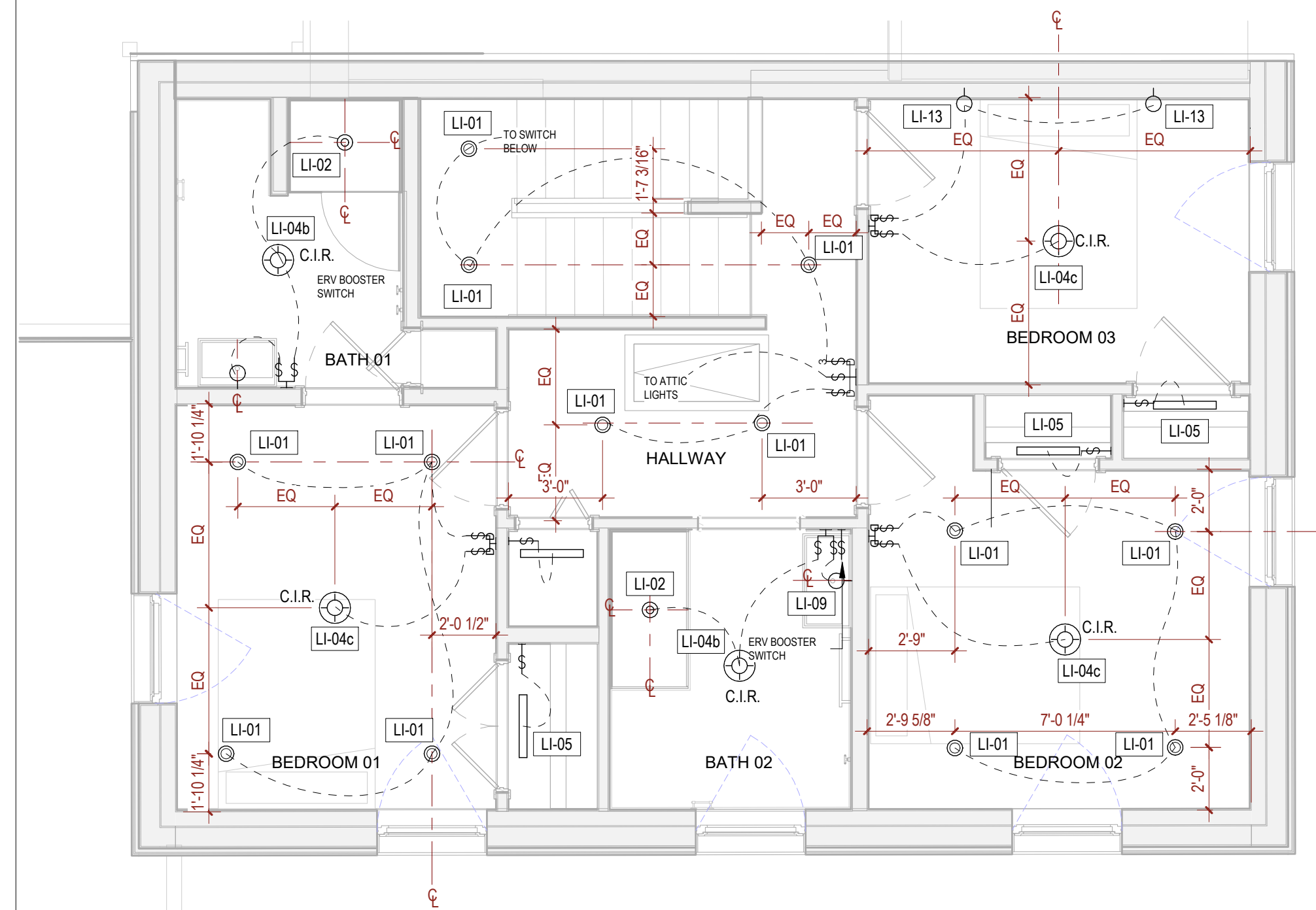


Thornburgh Rosenfeld Residence

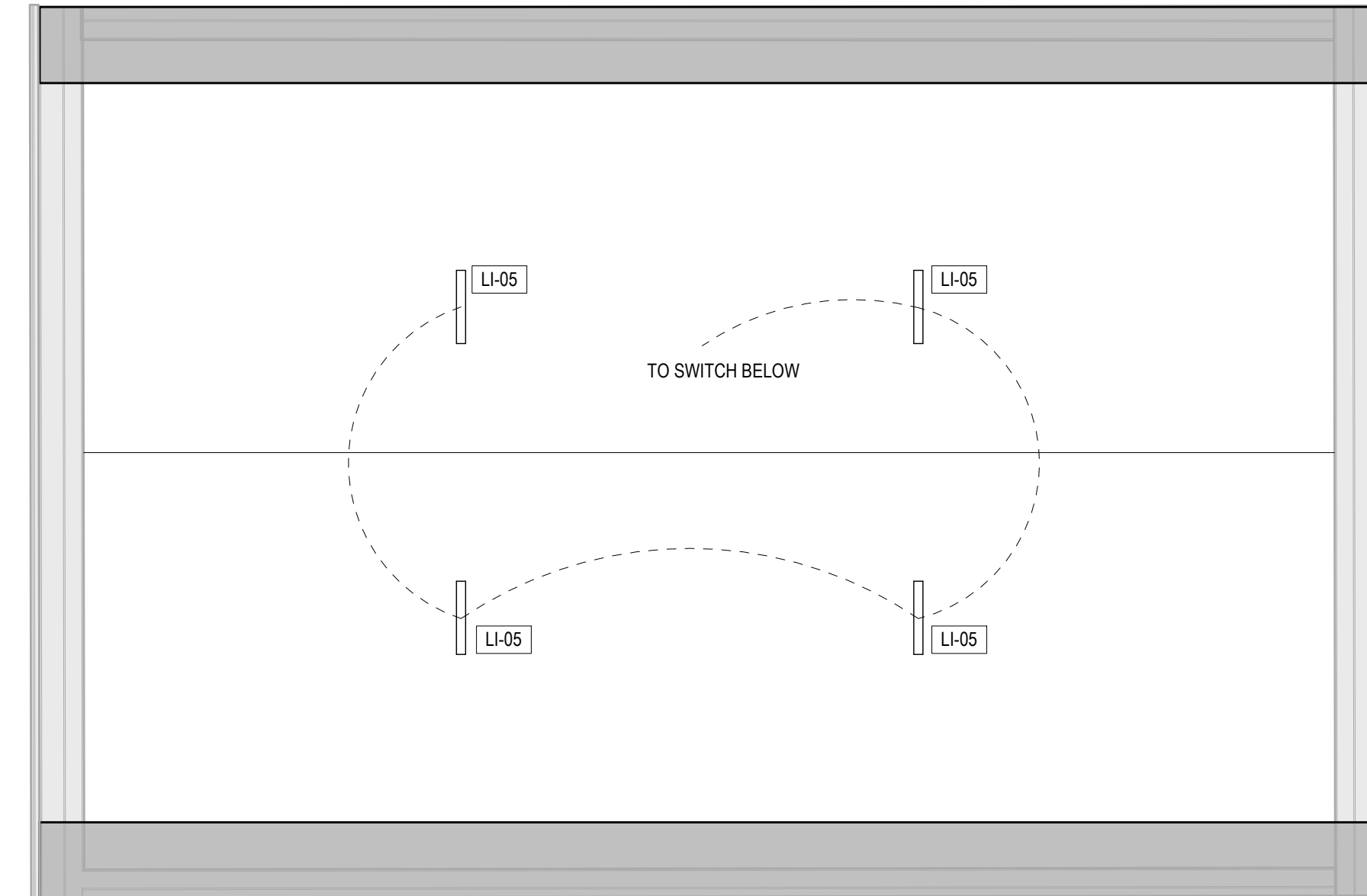
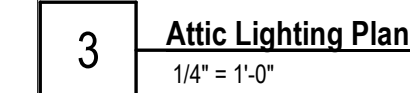
147 S. Cove Rd,
Burlington, VT 05401

LIGHTING LEGEND

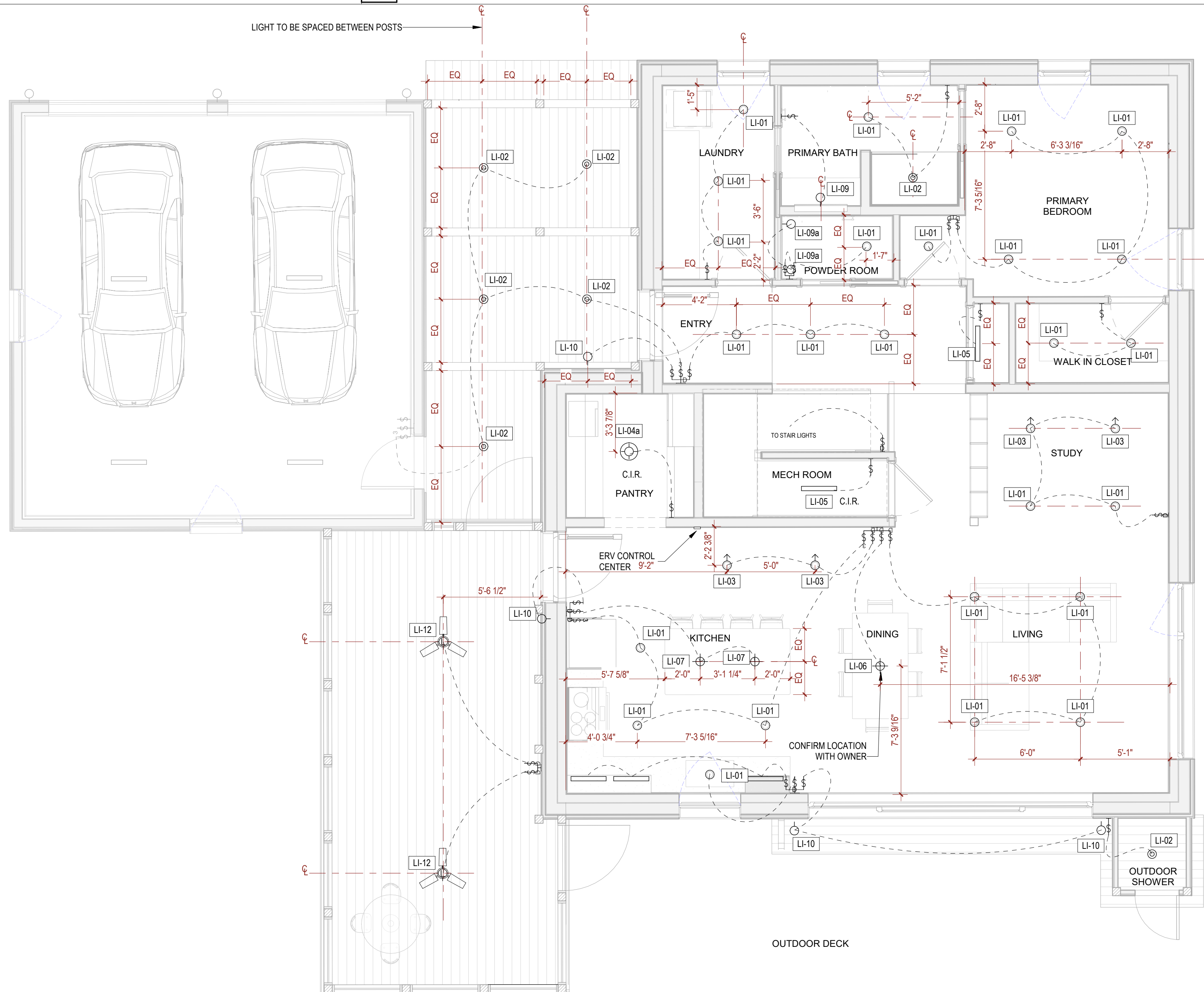
- | | |
|---|------------------------------------|
|  | RECESSED DOWN LIGHT |
|  | RECESSED DOWN LIGHT (WET) |
|  | RECESSED DIRECTIONAL DOWNLIGHT |
|  | STRIP UTILITY LIGHT |
|  | UNDER CABINET STRIP LIGHT |
|  | PENDANT LIGHT |
|  | SURFACE MOUNTED OVERHEAD LIGHT |
|  | TRACK LIGHTING |
|  | WALL SCONCE - INTERIOR OR EXTERIOR |
|  | CEILING FAN WITH LIGHT |
|  | CEILING FAN WITHOUT LIGHT |



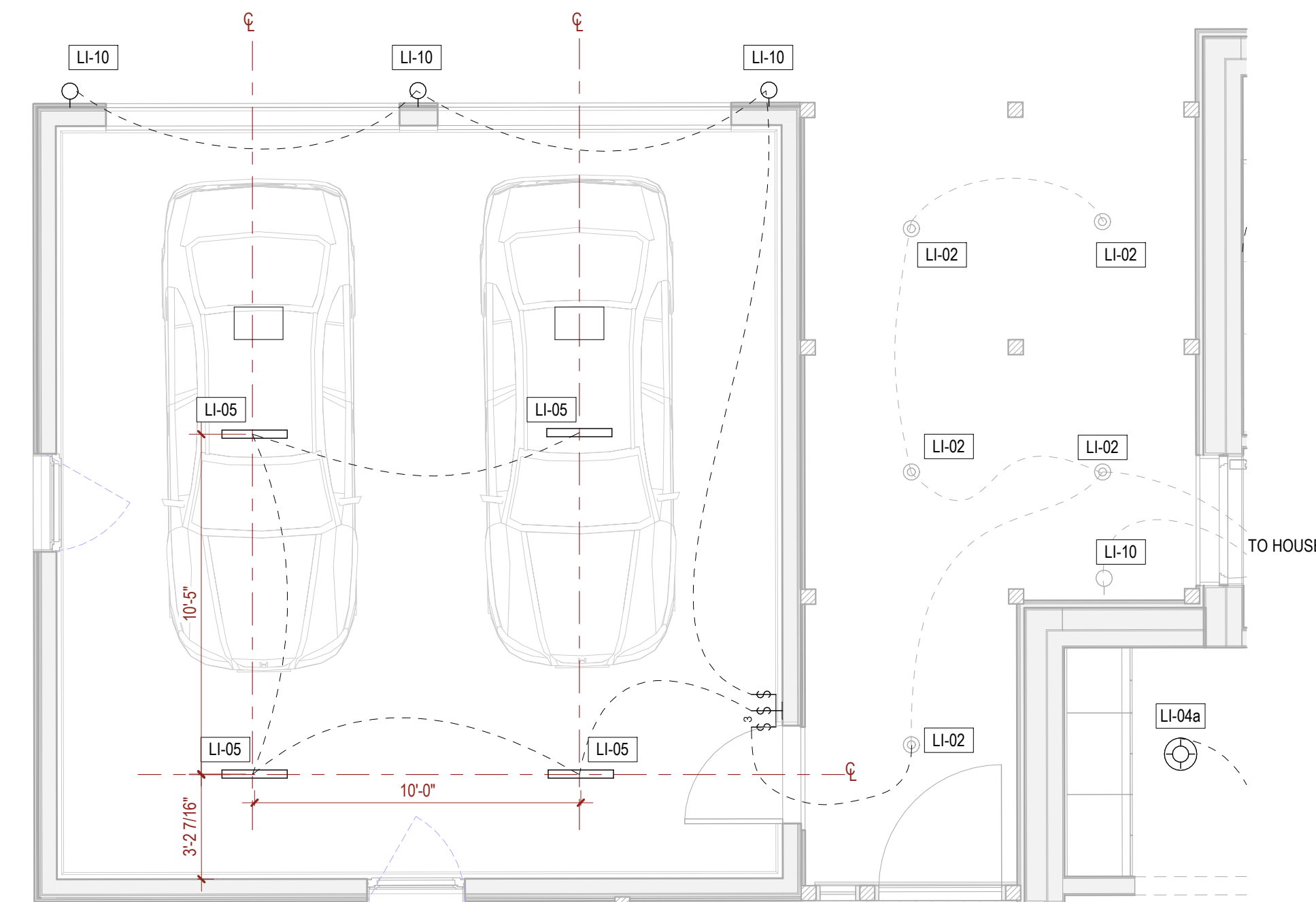
2	Upper Floor Lighting Plan 1/4" = 1'-0"
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3 Attic Lighting Plan



1 Main Floor Lighting Plan



4 Garage Lighting Plan

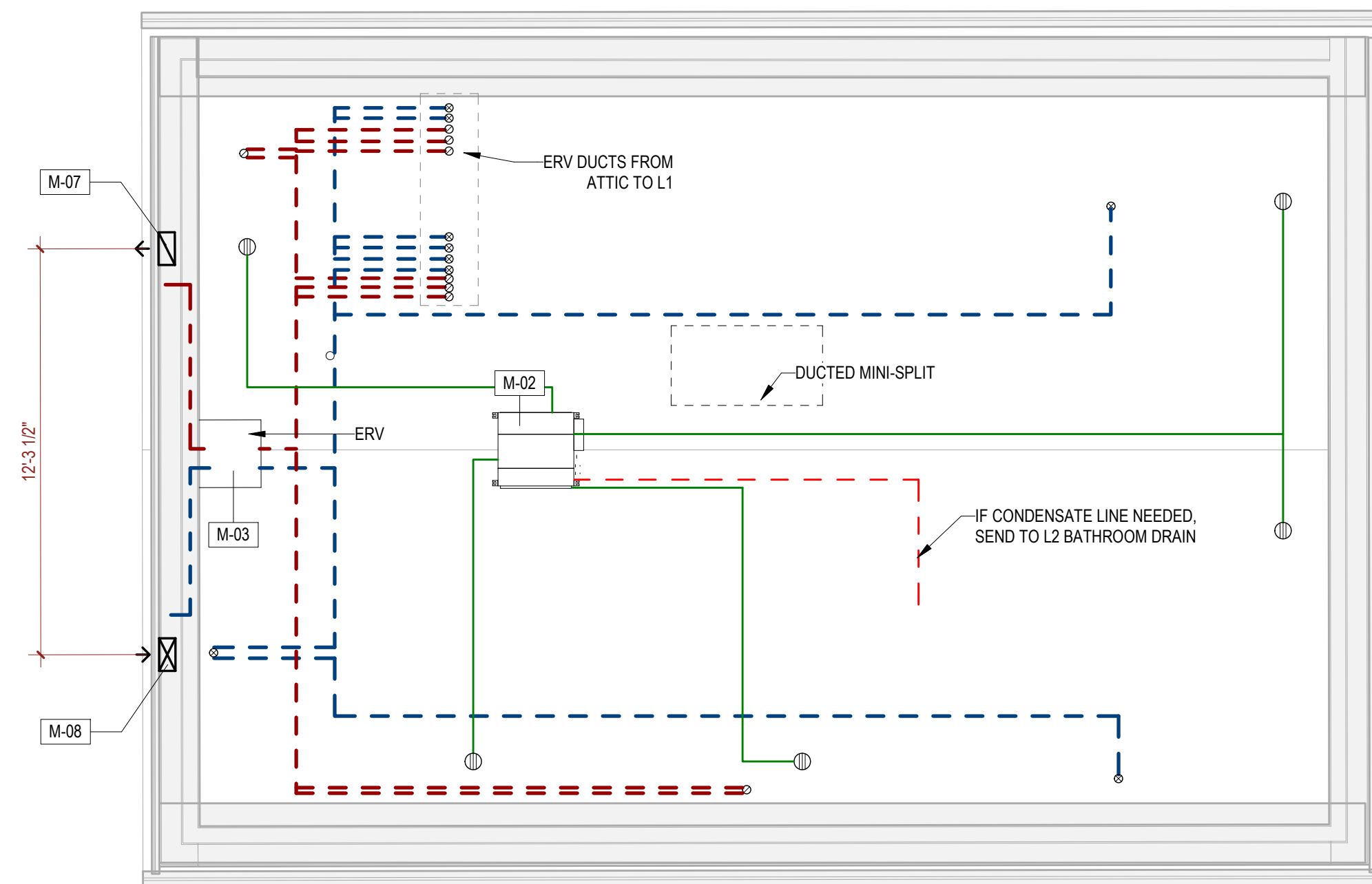
AIR SEAL ALL EXTERIOR PENETRATIONS ON HOUSE
PRESERVE CONTINUOUS AIR BARRIER

(L) LIGHTING SCHEDULE

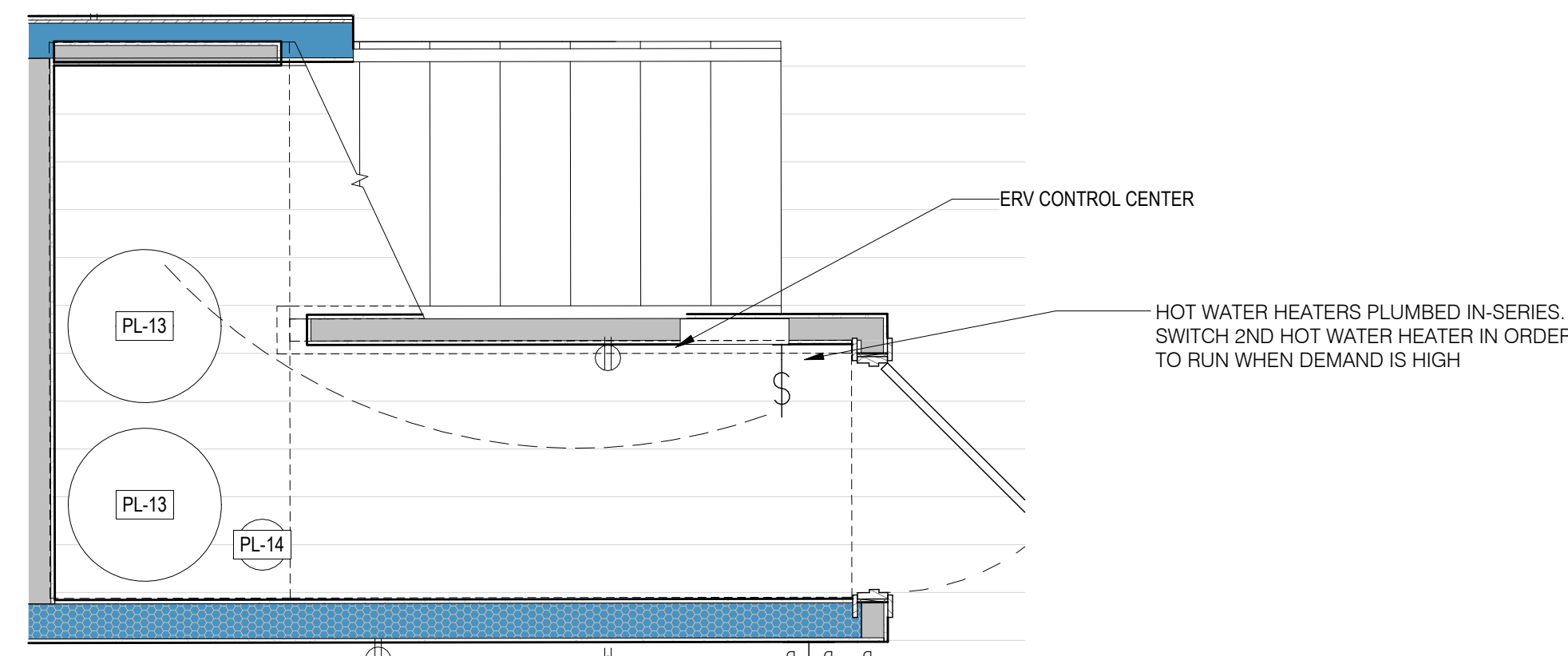
MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COLOR TEMP.	COMMENTS
LI-01	4" Recessed Downlight	NDR Electric	RZR-CCT-400	White	3000 K	
LI-02	4" Recessed Downlight - Wet Rated	NDR Electric	RZR-CCT-400	White	3000 K	
LI-03	4" Recessed Directional Downlight	NDR Electric	OB-400	White	3000 K	
LI-04	14" Round Flush Mount	DALSI Lighting	CFLIEDR14-CC-WM CFLIEDR14-CC-SN CFLIEDR14-CC-BK	White	2700 K	
LI-04a	15.7" Round Flush Mount - Pantry	TBD by Client	WKC-1724-3 - Xeno Ceiling Lamp	White	2700 K	
LI-04b	11.8" Round Flush Mount - Bathrooms 1 & 2	TBD by Client	WKC-LM 3027-01 - Wooden Geometric Ceiling Light	White	2700 K	
LI-04c	13" Round Flush Mount - Upstairs Bedrooms	Lumens	JDG2542863	White	2700 K	
LI-05	Utility Light (Motion Activated)	Columbia	LCL	White	3000 K	Confirm finishes with client
LI-06	Pendant - Solid Shade	Rorypots	TBD by Client	TBD	3000 K	Confirm with client
LI-07	Pendant - Solid Shade	Rorypots	TBD by Client	TBD	3000 K	Confirm with client
LI-08	LED Vanity Light - Horizontal (Bath 01+02)	Kuzoo Lighting or sim.	VLE2224-BK VLE62224-CH	TBD	3000 K	
LI-09	LED Vanity Light - Horizontal (Primary)	Kuzoo Lighting or sim.	VLE2224-BK VLE62224-CH	TBD	3000 K	
LI-09a	LED Wall Mounted Vanity Light - (Powder Room)	Cedar & Moss	Little Luna	TBD	3000 K	Confirm with client
LI-10	3.5" Cylinder Exterior Wall Light	Lusa	Cylinder Wall Sconce	TBD		Confirm with client
LI-11	Motion Activated Flood Light	Heath Zenit or Sim.	HZ-5718-RS-G	Black	3000 K	
LI-12	56" Ceiling Fan	Minka Aire or sim.	F626L-CL	Black		
LI-13	Interior Wall Mounted Sconce	TBD by Client	TBD by Client		3000 K	

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION



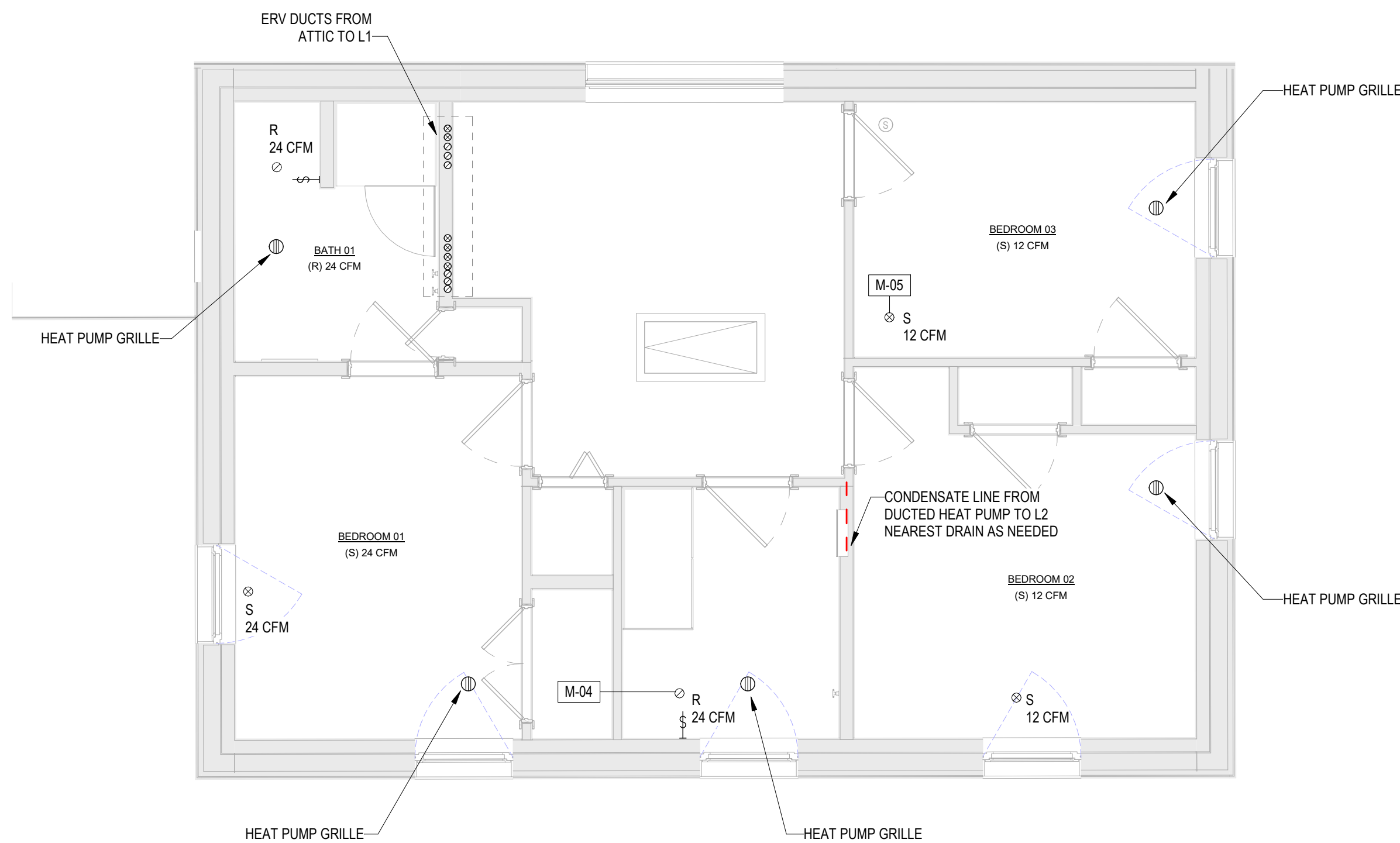
2	Attic Mechanical & Ventilation Plan 1/4" = 1'-0"
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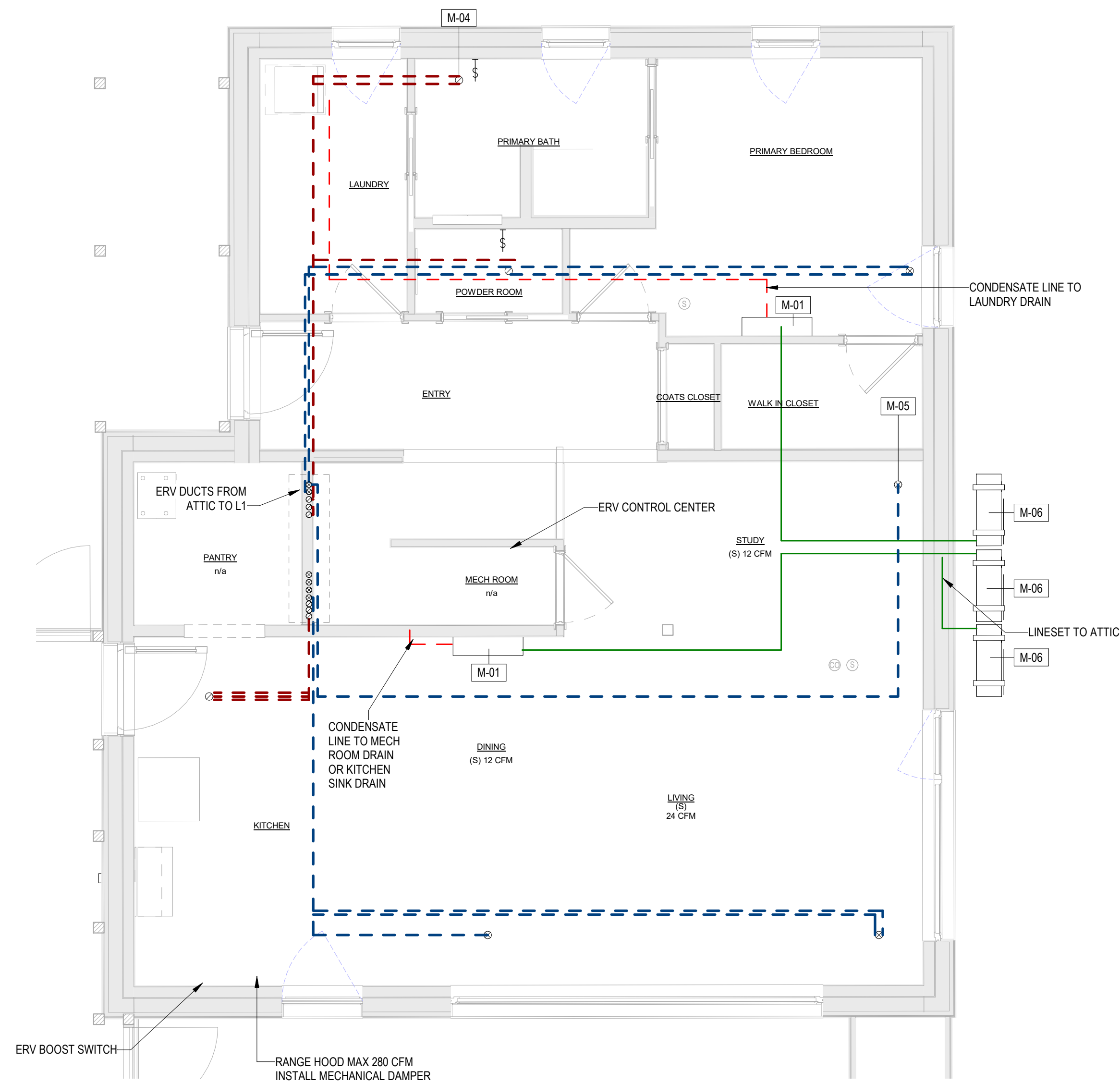
1	Enlarged Plan - Mechanical Room
	1/2" = 1'-0"

Description	Zone	Floor	Area (ft²)	Height (ft)	Volume (ft³)	Supply (cfm)	Extract (cfm)	Register Box	Tubes	Outlet	Loc	Type
Kitchen	1	1	2,053.00	8.20	16,834.60	0	24	RND2T	2	Luna-E	Ceiling	Extract
Half Bath	1	1		8.20		0	12	RND2T	1	Luna-E	Ceiling	Extract
Laundry	1	1		8.20		0	12	RND2T	1	Luna-E	Ceiling	Extract
Primary Bathroom	1	1		8.20		0	24	RND2T	2	Luna-E	Ceiling	Extract
Primary Bedroom	1	1		8.20		24	0	RND2T	2	Luna-S	Ceiling	Supply
Living Room	1	1		8.20		24	0	RND2T	2	Luna-S	Ceiling	Supply
Dining	1	1		8.20		12	0	RND2T	1	Luna-S	Ceiling	Supply
Study	1	1		8.20		12	0	RND2T	1	Luna-S	Ceiling	Supply
Bath 01	1	2		8.20		0	24	RND2T	2	Luna-E	Ceiling	Extract
Bath 02	1	2		8.20		0	24	RND2T	2	Luna-E	Ceiling	Extract
Bedroom 01	1	2		8.20		24	0	RND2T	2	Luna-S	Ceiling	Supply
Bedroom 02	1	2		8.20		12	0	RND2T	1	Luna-S	Ceiling	Supply
Flex	1	2		8.20		12	0	RND2T	1	Luna-S	Ceiling	Supply

(M) MECHANICAL EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
M-01	Heat Pump Air Handling Indoor Wall Mounted Unit - Cassette	Mitsubishi or Sim.	9000 BTU Minisplit MSZ- FS09NA	
M-02	Ceiling Concealed Ducted System	Mitsubishi Electric Corporation	SEZ-M25DA or Sim.	
M-03	Energy Recovery Ventilator	Zehnder	Q350	
M-04	Ceiling Return Grille	Zehnder	Luna	
M-05	Ceiling Supply Grille	Zehnder	Luna	
M-06	Heat Pump Outdoor Unit	Mitsubishi or Sim.	MUZ-FS09NA	
M-07	Exterior Grille Exhaust	Zehnder	150 MM	Stainless Steel
M-08	Exterior Grille Intake	Zehnder	150 MM	Stainless Steel



3	Upper Floor Mechanical & Ventilation Plan 1/4" = 1'-0"
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4 Main Floor Mechanical & Ventilation Plan

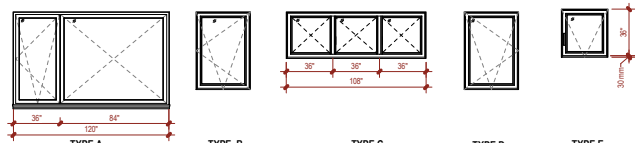
WINDOWS & DOORS

WINDOW SCHEDULE																									
MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	WIDTH (includes Enl.)	HEIGHT (includes Enl.)	WIDTH (in. includes Enl.)	HEIGHT (in. includes Enl.)	ENL. LR	CONNECTOR BELOW	SILL HEIGHT	T.O. WINDOW	FINISH EXTERIOR	HINGE SIDE (as seen from interior)	MUNTIN STYLE	SAFETY GLASS	INSECT SCREEN	HARDWARE	INT. WINDOW SILL	EXT. EXTENSION JAMBS	SHADING	HEAD FLASHING PROFILE	SILL FLASHING PROFILE	COMMENTS	
1	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	3'-11"	42.00"	47.00"	0/0	-	3'-7"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
2	A	2 PIECE MALLED TILT TURNFIXED WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	10'-0"	6'-0"	120.00"	72.00"	0/0	-	7'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT / FIXED	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
3	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
4	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
5	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
6	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
7	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
8	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
9	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
10	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
11	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
12	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
13	B	SINGLE TILT TURN WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-6"	5'-0"	42.00"	60.00"	0/0	-	2'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
14	C	3 PIECE MALLED FIXED WINDOW - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	6'-0"	3'-0"	108.00"	36.00"	0/0	-	6'-5 1/4"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	FIXED / FIXED / FIXED	NONE	Yes	NA	Stained Grade Hardwood	WD-04	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M		
15	E	SINGLE TILT ONLY WINDOW - TRIPLE PANE	UNILUX	ALUCAD PVC - ISOSTAR	3'-0"	3'-1 3/8"	36.00"	37.18"	0/0	30mm	6'-4 1/8"	RAL9016M - TRAFFIC WHITE MATT	WHITE	LEFT	NONE	Yes	W2	Tile	Tile	BY GC		76mm, 68mm, 27mm RAL9016M	165MM / RAL9016M	Frosted Glass. Handle on Lower Left	
17	D	SINGLE TILT TURN WINDOW - DOUBLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	LEFT	NONE	Yes	W1	TBD	TBD	BY GC		76mm, 47mm, 27mm RAL9016M	110MM / RAL9016M		
18	D	SINGLE TILT TURN WINDOW - DOUBLE PANE	UNILUX	ALUCAD WOOD - MODERNLINE WICRUMFERENTIAL-FRAME GROOVES 5mm/23mm	3'-0"	5'-0"	36.00"	60.00"	0/0	-	2'-6"	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	RIGHT	NONE	Yes	W1	TBD	TBD	BY GC		76mm, 47mm, 27mm RAL9016M	110MM / RAL9016M		

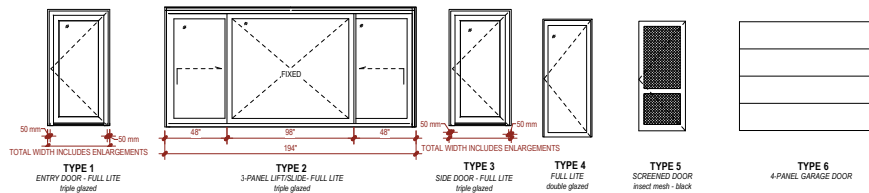
EXTERIOR DOOR SCHEDULE

MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	WIDTH (includes Enl.)	HEIGHT	WIDTH (in. includes Enl.)	HEIGHT (in.)	SILL HEIGHT	T.O. DOOR	WOOD ONLY ENLARGEMENT LR	FINISH EXTERIOR	FINISH INTERIOR	HINGE SIDE (as seen from interior)	OPENING DIRECTION	MUNTIN STYLE	SAFETY GLASS	INSECT SCREEN	HARDWARE SET	HEAD FLASHING PROFILE	COMMENTS
10	1	ENTRY DOOR - FULL LITE - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLNE	3'-11"	7'-3"	47.00"	87.00"	0'-2"	7'-6"	50 MM / 50 MM	RAL5011MS - STEEL BLUE MATT TEXTURED	PINE 137 TRANSPARENT MATT	RIGHT	INWARD	NONE	Yes	N/A	W3	76mm, 47mm, 27mm RAL9016M	
3	2	LIFT + SLIDE - FULL LITE TRIPLE PANE 3 PANEL	UNILUX	ALUCAD WOOD - MODERNLNE	16'-2"	7'-6"	194.00"	90.00"	0'-0"	7'-6"	0/0	RAL9016M - TRAFFIC WHITE MATT	PINE 137 TRANSPARENT MATT	N/A	PANELS SLIDE INWARDS	NONE	Yes	YES	W4	76mm, 47mm, 27mm RAL9016M	
5.0	3	SIDE ENTRY DOOR - FULL LITE - TRIPLE PANE	UNILUX	ALUCAD WOOD - MODERNLNE	3'-11"	7'-3"	47.00"	87.00"	0'-2"	7'-6"	50 MM / 50 MM	RAL5011MS - STEEL BLUE MATT TEXTURED	PINE 137 TRANSPARENT MATT	RIGHT	INWARD	NONE	Yes	N/A	W3	76mm, 47mm, 27mm RAL9016M	
14.0	5	SCREEN DOOR - WOOD FRAMED HINGED DOOR	CUSTOM	CUSTOM STYLE AND RAILSIZE TO MATCH ADJACENT PORCH FRAMING	3'-8 5/32"	6'-9 3/4"	45.17"	81.75"				CEDAR TO MATCH SIDING	CEDAR TO MATCH SIDING	RIGHT	OUT	NONE	Yes	YES	TBD		By GC, Confirm with client
14.1	5	SCREEN DOOR - WOOD FRAMED HINGED DOOR	CUSTOM	CUSTOM STYLE AND RAILSIZE TO MATCH ADJACENT PORCH FRAMING	3'-8 1/32"	6'-9 3/4"	44.42"	81.75"				CEDAR TO MATCH SIDING	CEDAR TO MATCH SIDING	LEFT	OUT	NONE	Yes	YES	TBD		By GC, Confirm with client
24.0	4	CARRIAGE DOOR - FULL LITE DOUBLE PAN	THORNBURG		7'-0"	7'-0"	84.00"	84.00"	0'-0"	7'-0"	0/0	RAL5011MS - STEEL BLUE MATT TEXTURED	TBD by client	RIGHT	OUT	NONE	Yes	W1	TBD	76mm, 47mm, 27mm RAL9016M	
24.1	6	OVERHEAD GARAGE DOOR	CHI	OVERLAY CARRIAGE HOUSE - TBD by Client	9'-0"	7'-0"	108.00"	84.00"	0'-0"	7'-0"	0/0	RAL9016M - TRAFFIC WHITE MATT	TBD by client	N/A	N/A	NONE	No	N/A	TBD	76mm, 47mm, 27mm RAL9016M	Order Primer paint as supplier recommendation, final finish to be applied on site by GC.
24.2	6	OVERHEAD GARAGE DOOR	CHI	OVERLAY CARRIAGE HOUSE - TBD by Client	9'-0"	7'-0"	108.00"	84.00"	0'-0"	7'-0"	0/0	RAL9016M - TRAFFIC WHITE MATT	TBD by client	N/A	N/A	NONE	No	N/A	TBD	76mm, 47mm, 27mm RAL9016M	Order Primer paint as supplier recommendation, final finish to be applied on site by GC.

WINDOW TYPES (AS SEEN FROM INTERIOR. SEE SCHEDULE FOR OPENING DIRECTIONS)



EXTERIOR DOOR TYPES (AS SEEN FROM INTERIOR. SEE SCHEDULE FOR OPENING DIRECTIONS)



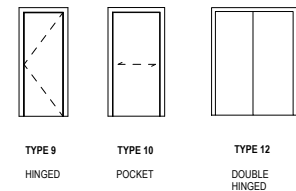
HARDWARE SET SCHEDULE

SET	DESCRIPTION	MANUFACTURER	MODEL	LOCKSET FUNCTION	TRACK	HINGES	FINISH	COMMENTS
W1	Window Handle	UNILUX	Angular Comfort Shape	via	Concealed	Concealed	Stainless Steel	
W2	Window Handle - PVC	UNILUX	Basic PVC Handle	via	Concealed Hinge	Concealed	White	
W3	Side Entry Door Handle	UNILUX	Angular Comfort Shape - Set 4012	Keyed Alike - Multi-Point Lockset w/ Hooks and Bolts (MPV) cylinder by Mfg.	via	HINGE, Exposed Hinges - Caps To Match Handle Finish	Stainless Steel	Keyed Alike
W4	Lift & Slide Door Handle	UNILUX	Standard Lift + Slide Handle	Keyed Alike	via	Manufacturer Spec.	Stainless Steel	
W5	Garage Hinged Door Handle	Thornburg or Sm.	Front Lever	Keyed Alike	via	Exposed	Brushed Nickel	
W6	Bed & Bath Knob	Schlage	Bowery	Privacy	via			
W7	Hall & Closet Knob	Schlage	Bowery	Passage	via			
W8	Pocket/Slide Door Bed & Bath Pull	Schlage	Pocket Door Lock - Model 991-619	Privacy	via			
W9	Pocket/Slide Door Hall & Closet Pull	Schlage	Pocket Door Pull - Model 990-619	Passage	via			

INTERIOR DOOR SCHEDULE

MARK	TYPE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	WIDTH	HEIGHT	THICKNESS	HOWR SET	COMMENTS
6.1		Framed Opening	NA	NA	NA	3'-0"	7'-0"	0'-0"	(none)	
7.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
8.1	12	Double Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	6'-0"	7'-0"	0'-1 3/8"	W7	
9.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
9.2	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
11.1	10	Single Door / Pocket / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
12.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
12.2	10	Single Door / Pocket / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	2'-6"	7'-0"	0'-1 3/8"	W6	
13.1	10	Single Door / Pocket / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	2'-8"	7'-0"	0'-1 3/8"	W6	
18.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
18.2	12	Double Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	4'-0"	7'-0"	0'-1 3/8"	W7	
18.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
20.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
20.2	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
21.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
21.2	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W7	
22.1	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	3'-0"	7'-0"	0'-1 3/8"	W6	
22.2	9	42" Hinged Glass Shower Door	Dynarene	D1300672-01	Confirm with Client	2'-6"	7'-0"	0'-0 15/32"	(none)	
22.3	9	Single Door / Hinged / Solid Core	Bracco (or approved EQ)	1-3/8" Flush Panel	Primed	1'-8"	7'-0"	0'-1 3/8"	(none)	
23.1	E	In-Fold Door - Flush Panel - 1-3/8" Solid Picores	Bracco (or approved EQ)	B-2FD		2'-3"	6'-8"	0'-1 3/8"	W6	

INTERIOR DOOR TYPES (SEE SCHEDULE FOR OPENING DIRECTIONS)





Aluminum clad wood window overview

Live the way you are – naturally individual





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UNILUX

One brand. One promise.

The only thing modern-day windows have in common with their “ancestors” is their name. Good carpentry work and appearance alone is no longer enough, because energy efficiency, safety, and functionality standards have increased dramatically to meet today’s customer needs.

That’s why all UNILUX aluminum clad wood products are inhouse developments, demonstrating an extraordinary degree of product intelligence and complex engineering.

To ensure these masterpieces are not just available to a selected group of people, UNILUX produces them as series, enabling these unique aluminum clad wood products to be sold at prices which make top quality affordable.

UNILUX opening up perspectives.



All good things come in sixes:

The UNILUX brand advantages.

Brand advantage 1: Durability

Ever since its early days, UNILUX has always used the highest-quality materials. Down to the finest detail: instead of the inferior silicon, we use smooth glazing seals made from synthetic rubber. The high-quality workmanship and strict quality controls ensure you gain long-term enjoyment from your UNILUX window.

Brand advantage 2: Freedom of design

Some things are a matter of taste. Thus, you can choose from our three designs - LivingLine, ModernLine and DesignLine. And that's just the beginning. Every one of those models can be customized. From the choice of wood to the coloring - all RAL colors for aluminum and special wood colors up to the handles. And let's not forget: a wide variety of window shapes (they don't have to be rectangular, after all) and muntins upon request in four different lines. Variety right from the factory.

Brand advantage 3: Energy efficiency

UNILUX's solid construction style not only guarantees durability, but also helps save energy. In the standard version, each of our wood-aluminum windows has a „warm edge“ which forms the thermal separation between the glass panes. That provides better insulation values, more comfort in the vicinity of the window, and significantly less condensation in cold months. Heating costs can be further reduced in conjunction with a highly efficient triple-glazing.





Brand advantage 4: Safety

Sometimes a window's job is not just to keep out wind and rain, but also uninvited guests. That's why all UNILUX locking parts are made from high-quality materials. Mushroom pins are also a standard feature of all our aluminum clad wood window fittings. For those who want even more security, we offer maximum protection with our SAFE packages.

Read more on page 21.

Brand advantage 5: Service

UNILUX only works with expertly qualified window specialist retailers, located across the country with their own showrooms. Your regional UNILUX retailer will offer you detailed advice and assist you with your plans. It will also ensure prompt, correct installation, and will be available at any time if you have any service-related needs.

Brand advantage 6: Brand quality

Since 1955, UNILUX's philosophy has been: Only products of uncompromising quality must leave the factory. This saw our company become a recognized quality leader over the decades. Anyone who pays heed to the UNILUX logo can be certain of always receiving a "Made in Germany"-branded product.





Advantages of aluminum clad wood

Aluminum on the outside, pure wood on the inside – combined for generations.

Wood creates comfort – it is a feel-good material. Aluminum on the other hand, is a robust protective shield against the elements. Together, they form an aluminum clad wood product which lasts generations without the need for continuous maintenance.

The wood interior does not require UV protection in the form of coloring pigments in the finish. It can be used in its natural form (transparent stain) thanks to the aluminum shell. The aluminum shield firmly encases the wood, protecting it from the elements while still giving room to expand and contract and cope perfectly with temperature fluctuations.

UNILUX aluminum clad wood products:
the originals.

Aluminum Clad wood windows

Discover diversity.

No house is like any other. To help you design your window to your own taste, we offer you three different designs.

U_w-VALUE

0.83

W/m²K

U_w-VALUE

0.146

btu/h×ft²×°F

In the standard
version UNILUX
wood-aluminum
windows can achieve
a U_w-value of
up to 0.83.

Unilux DesignLine

The attractive way to save on energy costs (heating or cooling). The DesignLine aluminum clad wood window range combines architectural elegance and state-of-the-art energy efficiency. Uncompromising in terms of aesthetics, it is designed for high-quality residential buildings and condominium buildings.



Unilux ModernLine

Three glass panes with a thickness of nearly 50mm (2"), a custom-designed insulating core, thermally isolated spacers, special filling gas, and invisible coating on both sides improve insulation values by 46% compared to conventional windows.



Unilux LivingLine

Some things never need to change. The aluminum clad windows in the LivingLine series are so discreet that they fit harmoniously into any traditional architecture, and are very attractive when renovating older buildings as well.



Passive house Stars

The Passive House stands for healthy and comfortable living with high energy efficiency.

As a premium manufacturer of wood-aluminum windows, UNILUX has adapted the development of its product range to meet these requirements, because our wood-aluminum windows allow you to achieve passive house standards.

The core for more insulation

An additional insulating core in the window frame helps to achieve a better thermal insulation. In addition, the pine wood naturally provides a good insulation value. In this combination, the wood-aluminum windows can reach a U_w -value of 0.73. Thus, they can meet the strict criteria for passive house windows. This means that you automatically have to heat less.



U_w -VALUE
0.73
 W/m^2K

U_w -VALUE
0.129
 $btu/h \times ft^2 \times ^\circ F$

Aluminum clad wood windows

DesignLine Privacy.

"My home is my castle." Just block the world out. Be undisturbed, footloose and fancy free. This is easy with the aluminum clad wood DesignLine Privacy window. Thanks to integrated blinds, you can create privacy at any time – even by remote control if you wish. Also save on energy compared to a roller-shutter or venetian blind box.

DesignLine Privacy

Advantages on 4 levels

1. Privacy

Discretion could not be more easily achieved. Nothing has to be built, mounted or improvised. The blinds move easily, via remote control if required.

2. Peace and quiet

Three or even four glass panes mounted some distance from one another enable unrivalled sound-proofing. Test it for yourself and pull the blind up: You'll see the cars but won't hear them.

3. Warmth

Roller-shutter or venetian-blind boxes are often energy guzzlers. Heat escapes and cold creeps in. DesignLine Privacy gets rid of this airlock. Since the blind is now part of the window, the boxes are no longer required.

4. Freedom of design

The integrated blind – with your choice of color – offers you a wide range of possibilities. As you don't require shutters, curtains or separately mounted blinds, your freedom of design is greater than ever before.

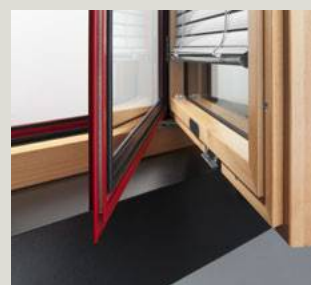
Try out more comfort. As an option to the standard chain cord, the blinds integrated into many windows* can now be operated by remote control from the comfort of your sofa, armchair or bed.





Sleek appearance

No frills, no gadgets. The DesignLine models stand for clear, puristic lines. Timeless window design.



Internal blind

The energy-efficient alternative to the box above the window. It can be easily adjusted to the sun's position via motor or chain. As it is located inside, it hardly gets dirty, either.

Easy to clean

The blind sits in front of the insulated glass unit, making the rare cleaning sessions a piece of cake. Simply open the sash, clean it, and you're done!

Aluminum clad wood windows frames for renovation

The smart way to renovate windows.

Window renovation can be so easy! Thanks to the renovation window frame from UNILUX, replacing obsolete windows is child's play. You don't even need to worry about plaster or wallpaper. Everything gets done cleanly and quickly.

Experienced installers manage that by simply removing the sashes of your old windows and cutting off the frame. Then they already have the groundwork laid for your new wood-aluminum window.

You can choose from all the many variants of a DesignLine window. And just like windows for new construction, you have all the different options for design available. For custom windows at lightning speed.

The decisive factor: The skill of installers matches the high quality of our windows. So you can be absolutely certain that your energy-saving DesignLine window with renovation window frames will have the same thermal insulation values as a DesignLine window in a new house. And plastering and wallpapering? They're just as much a thing of the past as masonry repair.

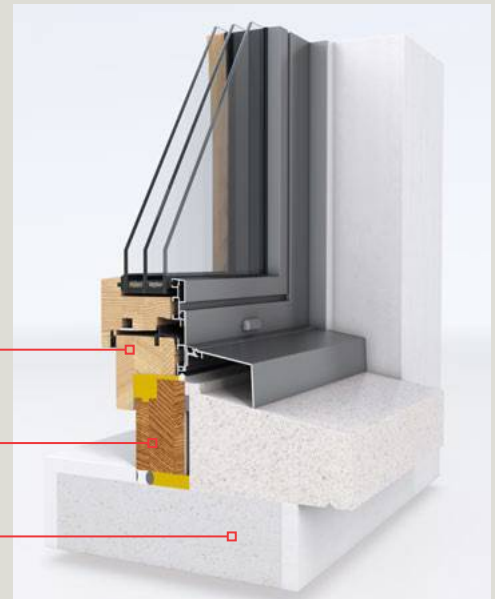
The renovation window frame from UNILUX – new windows, without the stress.



New windows, no muss, no fuss.

Clean insertion into the old window frame leaves the masonry and stucco intact, and interior plaster and wallpaper aren't affected either. Even an existing window sill can be cleanly integrated.

The new window fits harmoniously into the existing window opening, from both the visual and technical points of view.



**New renovation
window frame**

Old window frame

Masonry and stucco



Clean

The entire area is cleanly covered and taped before work begins. The old window sashes are removed, and the old frames cut off without leaving dust. They will be used as the foundation of the new window structure.

Safe

By stable anchoring into the frame and the masonry and by adding foam and insulation, our new windows aren't just visually attractive – they're also attractive when it comes to security and thermal insulation.

Fast

Once the new frame is inserted and anchored, the only thing left to do is simply to mount the new sashes. And then your room shines in a new light – without the mess, and without the stress.

Quality as a standard: the basic UNILUX advantages.

As you know from buying cars, some models look cheap at first glance. But upon closer examination, you are incredulous at all the extras charged by the manufacturer.

That's not the case at UNILUX. Our basic features in themselves are so extensive, that there is often no need for accessories. Each of our standard aluminum clad wood windows has the following special features:



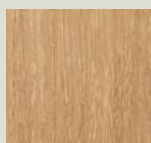
[Glazing seal

Silicon may be cheap, but it fades easily, is hard to clean, and susceptible to cracks and abrasion. UNILUX uses the better alternative: synthetic rubber, which is easy to clean, fade-resistant, long-lasting and hardly noticeable.



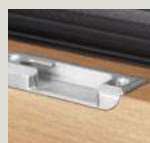
[Aluminum cladding slider couplings

Aluminum contracts or expands more than wood in cold or hot weather, creating tension on the frame. We prevent this from happening by mounting the aluminum cladding on slider couplings – similar to a rail system. This also ensures the wood is properly ventilated at all times.



[Superior-quality wood

Not all woods are the same. To guarantee a consistently high quality of materials, we use our own experienced wood purchasers, even in the most distant of supply countries. The same strict standards are applied during treatment – to ensure the wood has a long and healthy life.



[Embedded lock keepers

Impressive not only aesthetically, but also from a security perspective – due to being recessed compared to screwed-on locking parts. And the window frames are also easy to clean due to the fact that all the metal parts are recessed/embedded.



[Aluminum powder coating

"The exterior paint has chipped" is a phrase unfamiliar to UNILUX customers. Because our aluminum clad wood windows are made using aluminum powder coating, which has been tried and tested in the automotive industry. The result is highly robust paintwork able to withstand even the harshest of elements.



[Extra warmth: Triple glazing

Three panes are part of the standard fitting for UNILUX. This ensures improved thermal insulation and thus lower energy costs. Since the pane can have a thickness of 32 to 52 mm (1 1/4" to 2 1/16"), it can also be efficiently equipped with noise protection.

Extra perfect:

the UNILUX optional advantages.

Special circumstances require special solutions. That's why UNILUX offers exclusive added value when it comes to security, material protection and energy usage.

These additional benefits also give you the peace of mind of knowing you have the ultimate aluminum clad wood windows. Perfection, made by UNILUX.



[Added security: SAFE

In standard version, our windows and glazed doors already have secure mushroom-pin locks. For those who want even more security, we offer maximum protection with our SAFE packages. Choose between SAFE +, SAFE ++ and SAFE +++.



[Plus: Aneloxal coating

It's not just acid rain which can corrode metal. Salty sea air can also have aggressive, negative impacts up to 60 miles/100 kilometers inland – including on stainless steel. Pre-anodising, - the "aneloxal" process – effectively prevents corrosion. We are one of the very few manufacturers to use this form of coating at customers' requests, thereby ensuring UNILUX aluminum clad wood windows remain a symbol of durability, even in coastal areas.



[Glass competence

You can not only design UNILUX windows visually, our glass can also be completely customized to your needs. It's your choice: Noise protection, security, sun protection or a higher degree of thermal insulation - with UNILUX nothing is left to be desired.



[Wood-aluminum 0.7 advanced

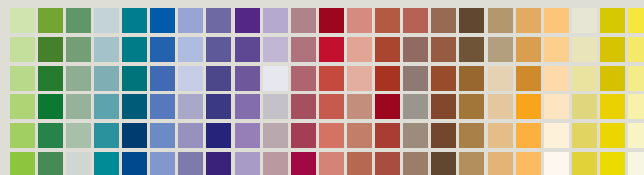
Wood-aluminum windows from UNILUX already have a good thermal insulation value in their standard version. For all those who want a special insulation, we build an additional insulating core in the window frame. This makes your window passive house compatible.

Freedom of design in terms of material and color.

How many different tastes are there? Around 2 million when it comes to wood and color. Because that's how many combination options you have for your individual UNILUX aluminum clad wood windows. Find out which wood species goes best with which color, and which pattern goes with the aluminum cladding.



RAL colors
Wood patterns
DB & metallic
colors
NCS colors



For interior design (= the wood variety and wood coating) there are 4 wood varieties and 200 colors available (covering RAL colors and wood glaze tones). You have even more options for the exterior design (= the aluminum covering). Here, you can choose from over 2,100 colors or decors (RAL, NCS, DB/Eloxal and white pigment colors as well as wood decors).



You love wood

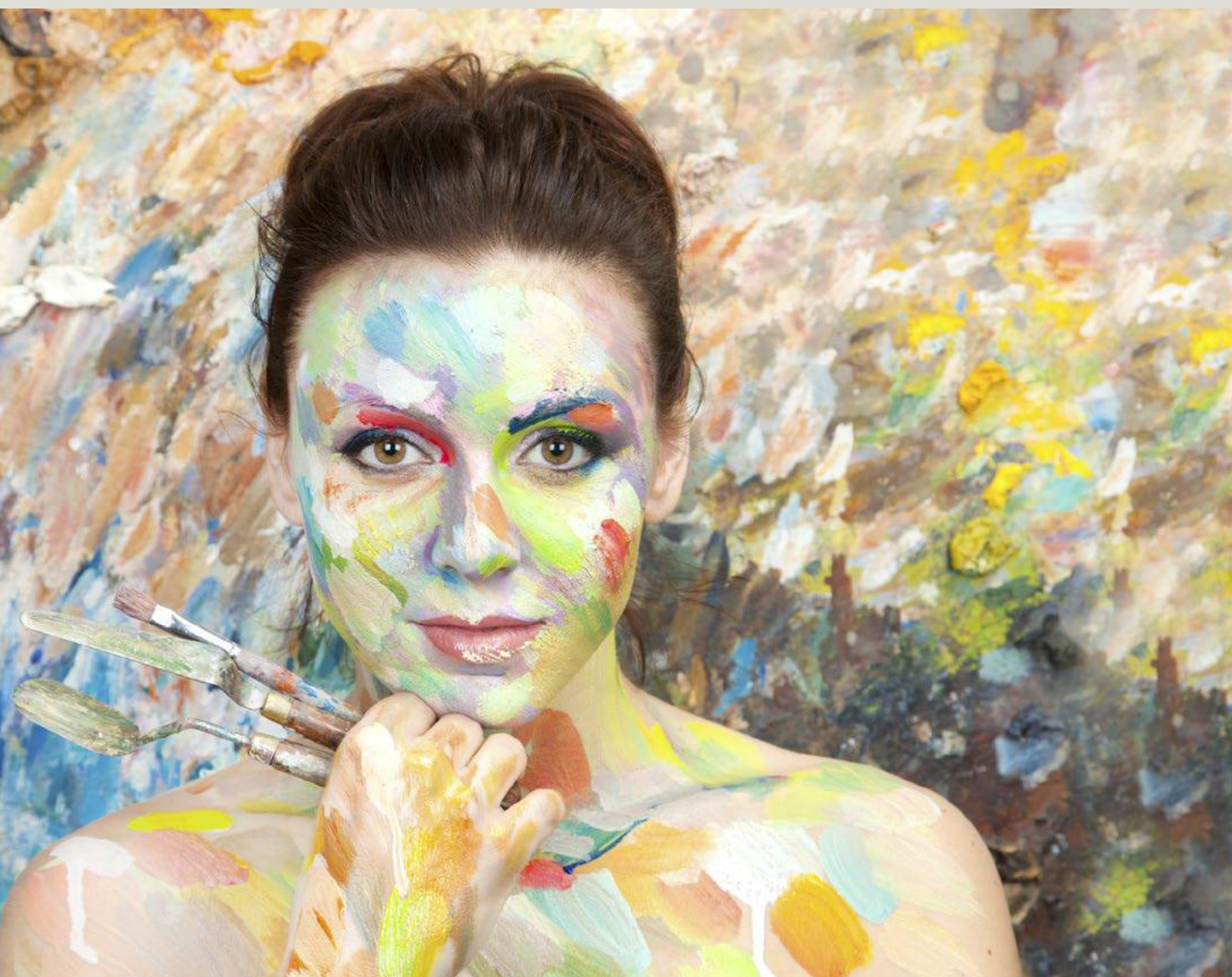
Wood is a living material, so it's nice if you can incorporate it into your living space. UNILUX aluminum clad wood windows bring this vitality to your living room.



It's your choice

Even when it comes to wood colors, UNILUX always gives you the choice. Select from a wide variety of wood species, and make the most of the options for designing the wood's color scheme.





Choose from the following wood species: Pine, Oak, Larch and Eucalyptus Grandis, as well as 20 transparent or semi-transparent finishes.

Colors may vary due to printing.

Glass-competence.

UNILUX sets high standards in terms of glass, that is why every UNILUX window is fitted with 3-pane insulating glass as standard. But that alone is not enough for our engineers and developers. For all those who want more than just to design their windows, UNILUX offers various possibilities to upgrade their glass. However you decide, every UNILUX window is an example of groundbreaking glass competence.



[Thermal insulation

These standard UNILUX glasses achieve insulation values that are by no means commonplace for windows. If that's not

enough, you have the option to upgrade. You have the choice between SupraTherm, which achieves sensational insulation values. Or PrimaTherm 0.6 White - thanks to a new, invisible Low-e coating, you can use the energy from the sun's rays more effectively. More solar heat finds its way into the house. At the same time, this coating ensures that the cold stays outside.



[Safety glass VSG, P2A + P4A

At UNILUX you get the glass that is adapted to your security needs. Starting with ball-proof safety, which is nowadays in demand not only

in sports halls but also increasingly in private homes, up to the P4A glass, which withstands rough attacks, such as stone throwing or hammer blows. The tested safety glass is joined with an invisible high-tear-resistant film between two panes and ensures adhesion and tension in case the glass shatters. The security class can be further enhanced by increasing the number of plastic films and glass panes.



[Noise protection

One of the important tasks of a home is to ensure sleep and recuperation. Regrettably, the

noise pollution of our environment has greatly increased in the past. UNILUX offers the suitable glass for different noise sources - whether for buildings on busy roads or near discos and airports. UNILUX offers you high-quality glazing with improved sound insulation up to class 5, i.e. up to 45 dB (test value).



[Sun protection

Large window fronts bring brightness and atmosphere to our buildings. On the other

hand, rooms can heat up quickly as the sun shines on the generous window panes. To counteract this, UNILUX offers you sun protection glasses. The sun protection glass has two functions: In summer, it reduces solar radiation and thus reduces the heating of the building. In cool weather, the glass acts as a thermal protection and saves energy. The rays of the sun are reflected or absorbed by the solar protection glass without darkening the room.

Added security.

Protect your most valuable items. Burglars are risk-conscious people. They are quickly dissuaded once they realize the hurdles are too high. Thanks to sturdy profiles, anti-burglary fittings, lockable handles and special safety glass, UNILUX ensures that thieves think twice before attempting a burglary. Our windows and patio doors help to ward off suspicious characters.

The wood-aluminum windows from UNILUX already feature a mushroom pin in the standard version. With the SAFE packages you additionally reinforce the resistance of your windows against burglaries in three stages (+, ++ and +++). Thus you are always on the safe side with your windows.

STANDARD

Standard lock
Locking window handle

SAFE+

4-corner security lock
(Mushroom pin +
safety striker plate)

Window handle with locking
button

SAFE++

4-corner security lock
(Mushroom pin +
safety striker plate)

Window handle lockable

Drilling protection on gears

SAFE+++

Security lock all around
(hardware suitable for elements
of class RC2)

Window handle lockable

Drilling protection on gears

Of course for the highest security requirements we also offer the DIN EN-tested safety classes RC2 and RC2N. In this configuration, the UNILUX windows were tested intensively for you by neutral testing institutes.

RC2

Security lock all around
(hardware suitable for elements of class RC2)

Window handle lockable

Drilling protection on gears

P4A glazing

Tested according to DIN EN 1627-1630:2011

Tested glass connection (gluing the pane)

RC2 N

Security lock all around
(hardware suitable for elements of class RC2)

Window handle lockable

Drilling protection on gears

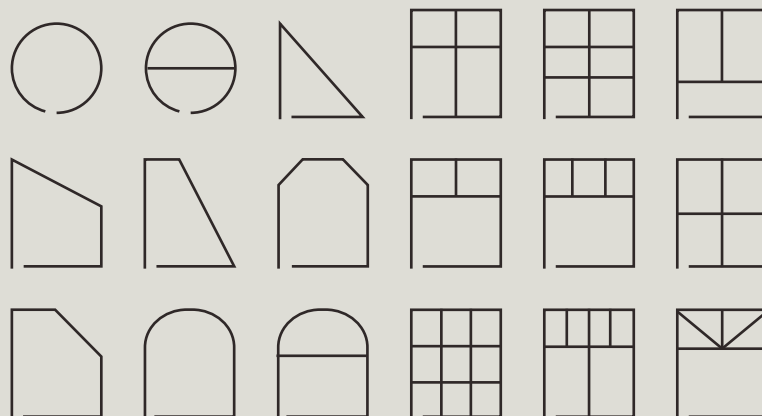
Any desired glass

Tested according to DIN EN 1627-1630:2011

Tested glass connection (gluing the pane)

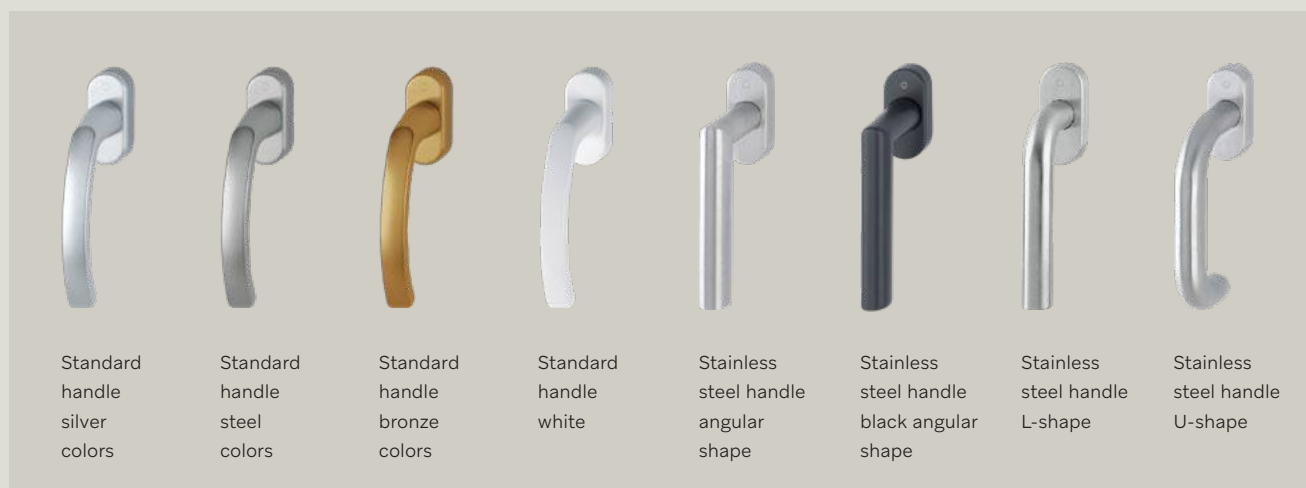
Endless variety of shapes.

There are practically no limits when selecting the shape of your aluminum clad wood windows. Triangular or circular window? Sectional or semicircular arch? With or without SDL or TDL bars? Your specialized UNILUX trade partner will show you what's possible.



A handle on design.

Design you can grab: Every UNILUX handle is not only a solid piece of "Made in Germany" workmanship, but also a visual gem. A tool enabling you to express your taste and style.



Shades and screens.

There are different options for protection from intensive sunlight and curious eyes. Whether classical roller shutter, elegant Venetian blinds, or traditional aluminum shutters, UNILUX offers you your individual shade and screen solution. By the way, we have a few good recipes against insects, too.



Variety of bars & dividers

Divided lights are the icing on the cake when it comes to a window's appearance. Our range covers four different lines, from true divided and simulated divided lites to the astragal and georgian bar designs.



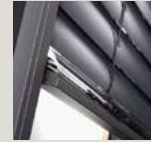
Sunshades and more

At UNILUX, we have first-class roller shutters, and insect screens that are either built into the roller shutter box or act as a separate component.



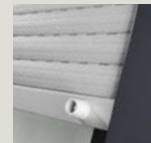
Lockability

Not every window needs to be opened, especially when there are small children around. That's why most of our handles come with a lock button, and are also available as lockable variants. Just in case.



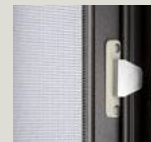
Venetian blinds

Blindingly bright or pitch dark? Venetian blinds give you many more nuances than that. They can control incoming light on a continuous basis. The strips, with their adjustable tilt, allow you to determine exactly how much sunlight you let into your rooms. And the Venetian blind also has an excellent visual appearance.



Roller shutter

When it comes to blocking out light, roller shutters have been the benchmark forever. No wonder they're preferred for use in bedrooms. And since the box appearance is the same as for our venetian blinds, you can combine UNILUX roller shutters and Venetian blinds together harmoniously.



Insect protection

It's not just in bedrooms that insects are a bother. Biting flies and wasps can rob your enjoyment of the fresh air. So you can still air out without the worries, there are special clamping frames and rotating doors. You can easily mount these insect screens yourself. Comfort is so easy.



Venetian blinds
Top-mounted venetian shutter, made from polyurethane, with exterior inspection opening



Roller shutter
Top-mounted roller shutter, made from polyurethane, with exterior inspection opening



Roller shutter
Top-mounted roller shutter, made from polyurethane, with interior inspection opening

UNILUX widens
your perspectives

**Impressive
glass surfaces.
Slim profiles.**





For unlimited vision
and new spheres of
experience.





Full-glass corner window OpenView.

The dream which comes true. OpenView allows you to gaze far into the distance – without any interfering window frames in the corner. Uninterrupted views for as far as the eye can see.



Technical masterpiece

While completely transparent, it conceals a sophisticated UNILUX construction. During the assembly of the assembly glass an insulation is integrated which is not visible to the naked eye. The black stripe that characterizes the glass corner consists of high-quality enamel, which is optically refracted in the glass so that only a shadow gap is visible. Typically UNILUX - masterfully crafted down to the last detail.

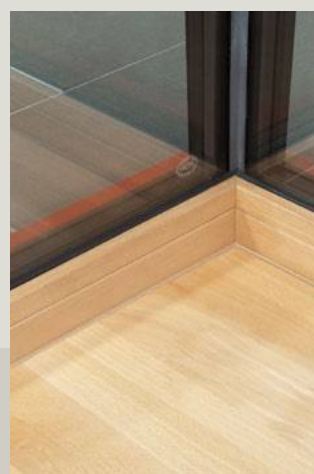
Freedom of design

Whether as a strip of tall windows or a large glass field, OpenView adds value to modern, high-quality architecture. Of course, this impressive structural feature comes in wood species, contours, wood colors and external colors which blend in perfectly with the UNILUX aluminum clad wood windows. It is also available with energy saving triple-pane glass, upon request.



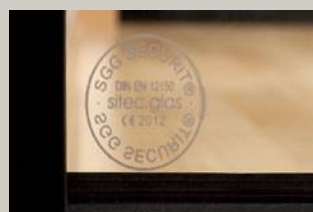
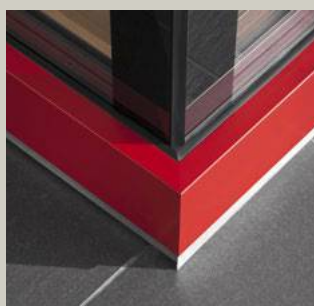
Slender profile

The filigree design enables maximum transparency. Aesthetics and robustness become one thanks to the safety glass.



Maximum performance

Namely, in terms of energy and architecture: The corner is joined via an assembly glass. This allows for an almost invisible insulation of the glass behind it.



Safety glass

The standard tempered safety glass (with seal) ensures firmness and optimized load distribution.

Lift/Slide system HS.

The classic model in its most convenient form. With the lift/slide system, you'll see how sliding becomes gliding. A simple panel movement creates an opening approximately 10'/3 meter wide and 9'/2.8 meter high.

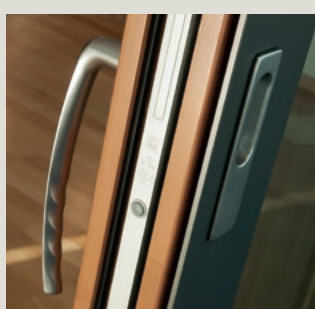


Exemplary craftsmanship

The lift/slide system perfectly demonstrates nature of UNILUX's products. High-quality hardware and solid constructions enable long-lasting elements which ensure maximum views and grand openings.

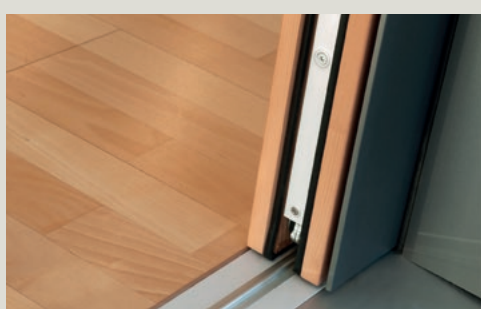
Freedom of design

Easy on the eye: The lift -slide system comes in wood species, con-tours, wood colors and external colors which blend seamlessly into the UNILUX aluminum clad wood windows.



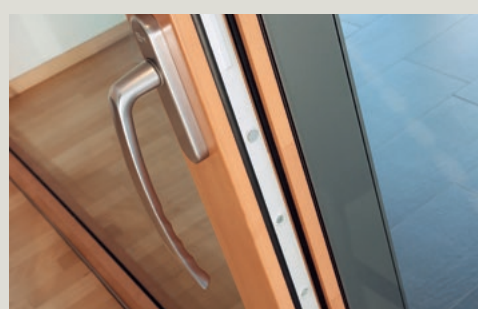
A handle on everything

Thanks to a practical recess and solid handle, the panels can be easily moved both inside and outside. The system also comes in a lockable version.



Low threshold

No stumbling, no stopping. Inside and outdoors join seamlessly. Freedom from barriers that's also visually attractive.



Shared sash profiles

Design from the same mould: The sash profiles of the lift/slide system are tailored to the entire UNILUX line.

Bi-Fold (sliding-folding) system Exterior.

There are no obstacles here. You don't need to move any plants or standard lamps, because the door panels fold outwards, creating an opening up to 25/7.7 meter wide and 9'/2.8 meter high. And a nice benefit: If you open the door after a rain shower, the water automatically drains to the outside – leaving everything dry inside.

Exemplary durability

The bi-fold door perfectly demonstrates the stable and durable nature of UNILUX's products. Aluminum is used as the base material and wood as the cladding, creating a high degree of rigidity in one element, in which everything fits perfectly together.



Freedom of design

Easy on the eye: The bi-fold door comes in wood species, contours, wood colors and external colors which blend seamlessly into the UNILUX aluminum clad wood window line (including energy saving triple-pane glass). Even the external handle can be matched to the unit's exterior color. And upon request, the bi-fold door is also available with embedded threshold.



Handles

Practical when you want to get out quickly. Depending on how the elements are divided, a standard door handle can be installed (in the same color as the element's exterior).



Freedom of interior design

As the panels open outwards, you don't need to create any space for them inside. And when they are opened, raindrops land on the terrace instead of the floor.

Seamless connection

Depending on the architecture, the panels' castors can be integrated into the floor – forming the basis for a flat sill track and fluid transition.



Exemplary strength

UNILUX only uses solid, laminated wood protected by a weather-proof aluminum cladding, which also holds the glass panes in place. These robust materials, as well as the sophisticated, invisible connection technology for posts and beams, ensure maximum stability even for large façades extending beyond one floor.

Freedom of design

Easy on the eye: The large glass areas enable personalized interior design. The slender, elegant FineLine façade comes in a variety of wood species and colors, contours and aluminum exterior colors, which blend seamlessly into the UNILUX aluminum clad wood window lines. Available with energy saving triple-pane glass, upon request.



Pic: 2

Facade system (Curtain Wall) FineLine.

The name's the game. FineLine is distinguished by its slender yet solid post & beam construction. The sophisticated connection technology allows even tricky architectural tasks to be mastered with maximum quality.



Energy efficiency

Optimum U-value according to passive house standards is achieved, thanks to the thermally insulated construction. The heat stays in and the cold stays out.



Pic: 2

Aesthetics

Solid wood, perfectly presented. The base connection with post-and-beam profile is just one example of the importance UNILUX places on high-quality architectural solutions.



Pic: 2

Workmanship

Closer inspection please. Examining details reveals just how much precision work goes into each UNILUX product.

Large-scale door JumboLine.

High window elements are increasingly popular. It's good when balcony doors can keep up. While the standard balcony door gives out after 2.60 meters (8'-6"), our JumboLine balcony doors can manage heights of up to 3 meters (10'). The key are the massive PowerHinge hinges, which can manage loads of up to 300 kilograms.



Harmony in completion

Engineering and aesthetics make a harmonious couple. For example, the sash limiter which prevents the panel from excessive opening is only visible when the door opens. The structural glass and securely anchored hardware ensure maximum stability – the panel is easy to operate even after many years.

Seamless integration

The JumboLine is available in all the aluminum clad designs, aluminum colors, wood species and finishes of the standard aluminum clad wood windows.



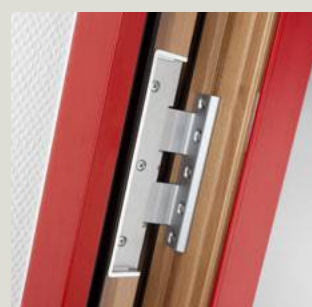
Filigree profiles

The door may be tall and heavy, but its panels are just as slim as any of our elegant tilt-and-turn windows.



Invisible sash limiter

To protect the hinges, standard JumboLines have a build-in, invisible turn restrictor which automatically stops the door from opening beyond a 90° angle.



Strong hardware

Thanks to solid door hinges, even heavy panels (as a standard up to 385 lbs/175 kg, with PowerHinge up to 660 lbs/300 kg) are a piece of cake for this large door. And a durable construction ensures long-lasting use.

References





Pic: 6



Pic: 6



Pic: 1



Pic: 7



Pic: 1



Pic: 6



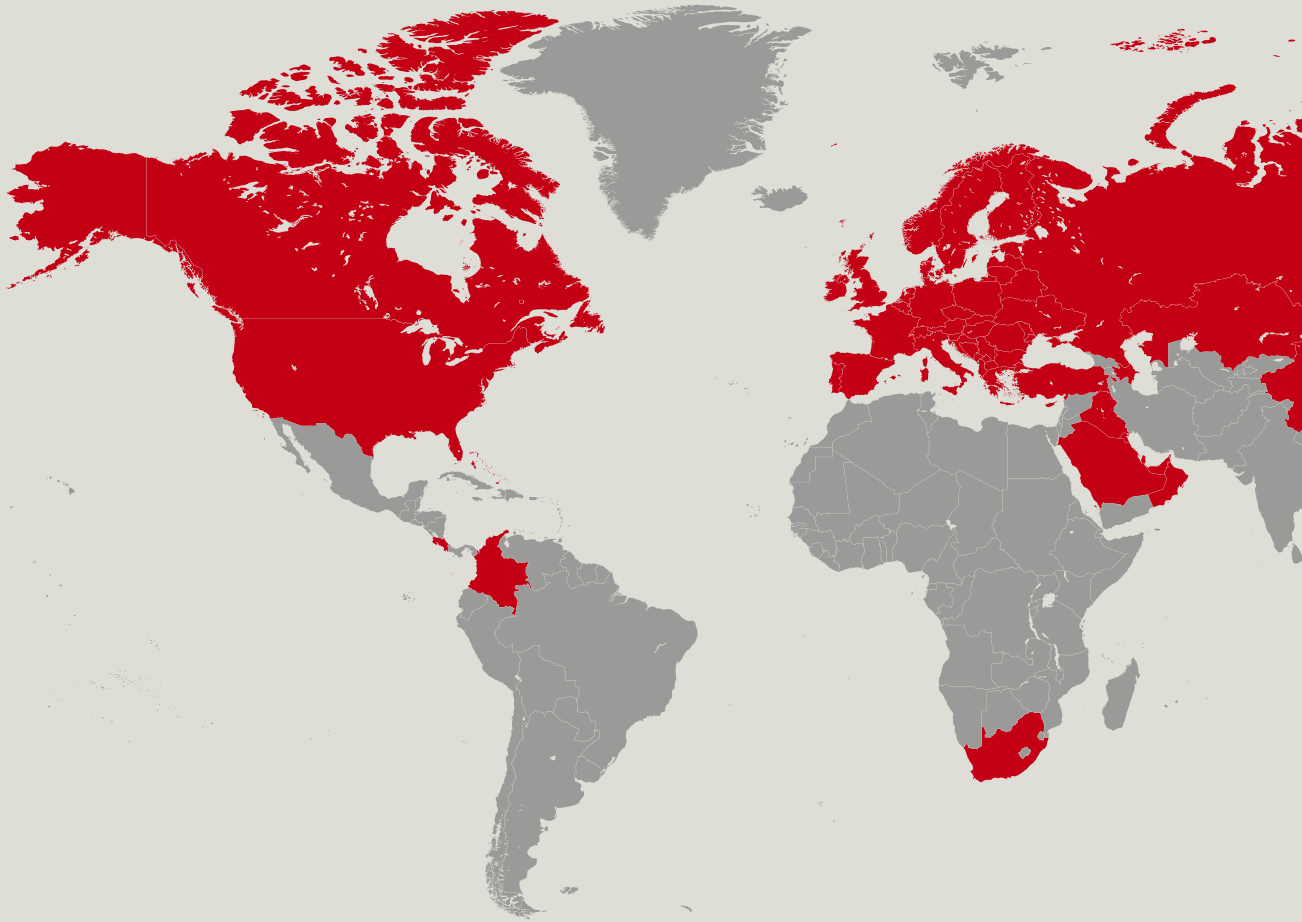
Pic: 3



Pic: 6



The reliability of a big name



UNILUX ensures award-winning long-term progress - by selecting the right partners and raw-material suppliers, and by being a member of leading institutions and associations:



UNILUX products meet international test and safety standards:





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UNILUX headquarters, Salmtal

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be found at: www.unilux.de

TRIM

Peace of mind,
for a lifetime



LIFESPAN[®] SOLID SELECT is a premium solid exterior trim product – offering a superior clean finish, outstanding performance, and the benefits of real wood.



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www.lifespansolidselect.com



► TECHNICAL MANUAL



The advantages are clear

LIFESPAN[®] SOLID SELECT is a premium solid exterior trim product – offering a superior clean finish, outstanding performance, and the benefits of real wood.

- Limited lifetime warranty
- Clear grade lumber – no finger-joints or knots
- Superior durability against rot, fungal attack and insects
- Long-term termite protection
- Resists corrosion to nails and fastenings
- FSC[®] Certified – environmentally responsible
- Superior water resistance
- Real wood – a pleasure to work with
- Product of New Zealand



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Lifespan® Solid Select at a glance

Wood has long been the choice of builders. It is beautiful, versatile and easy to work with. However, wood in an exterior situation is also subject to rot, fungal decay and insect attack. With LIFESPAN SOLID SELECT pressure treated, primed boards, wood now comes with long-lasting durability and low-maintenance peace of mind.

LIFESPAN SOLID SELECT is protected with the combination of a pressure treatment using organic biocides to ward off insects and fungal decay, a proprietary water repellency system to maximize dimensional stability and an alkyd-based primer to provide superior durability against the elements. This allows LIFESPAN SOLID SELECT to be offered with a limited lifetime warranty against fungal decay and insect damage, including termites.

The raw material for LIFESPAN SOLID SELECT comprises high grade clear lumber produced from pruned radiata pine logs. These come only from renewable sources and we utilize leading technology and innovative techniques to maximize the recovery of logs into finished products and minimize waste in our mills.

LIFESPAN SOLID SELECT is manufactured in our Forest Stewardship Council® (FSC®) certified mills (FSC® SCS-COC-00198).

- Limited lifetime substrate warranty against fungal decay and insect damage, including termites
- Manufactured from solid high grade wood with no fingerjoints or knots
- Pressure treated with an EPA approved organic preservative, delivering treatment to the core
- Non-corrosive to fasteners
- FSC® certified
- Multi-layer protection resists water uptake and enhances dimensional stability
- Alkyd primer provides smooth defect-free surface ready for top-coating
- Suitable for exterior and interior needs
- Real wood!!

This Manual has been developed to provide information for the use of LIFESPAN SOLID SELECT in interior and exterior above ground building applications (American Wood Preservers Association (AWPA) UC3A (painted) and UC3B (unpainted) use classes).

Fletcher Wood Solutions

Fletcher Wood Solutions (dba Taupo Wood Solutions) is the USA domiciled sales and marketing division of Tenon Manufacturing, a part of the Tenon Limited group of companies. Tenon Manufacturing operates pine-manufacturing facilities in Taupo, New Zealand and is the largest manufacturer of defect-free, appearance grade radiata pine products in New Zealand.

Fletcher Wood Solutions distributes its clear boards, mouldings, LIFESPAN products, and lumber to the North American market through its proven and completely integrated supply chain. In addition, Fletcher Wood Solutions maintains direct access to one of the largest FSC® certified pine plantation forests in the world, and its manufacturing plants have been certified by the Forest Stewardship Council® (FSC® SCS-COC-00198).

Liability

Fletcher Wood Solutions and Tenon accept neither liability nor responsibility if the information contained in this Manual is incorrectly or inappropriately applied or interpreted, nor if LIFESPAN SOLID SELECT is used in a manner other than as explicitly set out in this Manual.

Fletcher Wood Solutions has taken care to ensure that the information contained in this Manual was correct at the time of writing. However, Fletcher Wood Solutions and Tenon reserve the right to make changes or improvements to this Manual and to LIFESPAN SOLID SELECT without prior notice.



Specifications

Product range

LIFESPAN SOLID SELECT products are suitable for a range of interior and exterior above ground building applications. Examples of such products include:

Exterior Woodwork

- Fascia
- Trim boards: surfaced all sides, eased edges or with one rough-sawn face
- Exterior mouldings (brick mould, lattice, quarter round, etc.)

Siding

- Available in a range of patterns

Windows

- Window components (sash, casement sash, jambs)
 - machined cut stock
- Mouldings: brick mould

Exterior doors

- Door frames
- Stiles, rails (especially door bottoms)
- Sill substrate
- Mouldings: brick mould

Interior Woodwork

- Baseboard
- Crown Backer
- Trim around doors and windows

Quality standards

Material

Manufactured from C & Better Select grade kiln dried, tree farmed, radiata pine – however minor blemishes that will not be visible through a paint coat or affect performance are permitted.

Treatment

Solvent treated with active ingredients tebuconazole, propiconazole and permethrin to 0.08% m/m total azole average (0.06% m/m minimum).

Treatment is in accordance with NZS3640 and AS 1604.1:H3 standards (0.06% minimum), which exceed AWP requirements (0.0185% minimum).

Priming

Two coats high-quality alkyd primer applied at 3-4 wet mils. Total dry film build 3-4 mils.

Quality

No material visible defects: birdseye, tear out, etc. allowed prior to last primer coat.

Machining

Pitch marks 1/16" maximum.

Length Tolerance

0+1/2"

Width Tolerance

+0-1/32" (+0-0.5mm) – at time of manufacture.

Thickness Tolerance

+0-1/32" (+0-0.5mm) – at time of manufacture.

Moisture Content

10-15%MC (90% of pieces).

Straightness (as permitted by WWPA Lumber Grading Rules)

Cup: 1/32" in up to and including 6", 1/16" in 8", 3/32" in 10", and 1/8" in 12" Bow: 1-1/2" in 16ft.

Crook: 1" in 4", 7/8" in 6", 3/4" in 8", 5/8" in 10", and 1/2" in 12" (All on 16ft basis).

Twist: 1/4" in 4", 3/8" in 6", 1/2" in 8", 5/8" in 10", and 3/4" in 12" (All on 16ft basis).

1. Distortion permitted in occasional pieces
2. Distortion assessed at time of manufacture, there may be some movement in response to atmospheric humidity changes and subsequent moisture content changes after manufacture.



- ▼ 1. Exterior woodwork including fascia, trim boards, exterior mouldings
- ▼ 2. Interior woodwork including trim, crown backer, and baseboard
- ▼ 3. Sidings and claddings
- ▼ 4. Exterior doors including frames, stiles, rails, sill substrate, mouldings
- ▼ 5. Window components and mouldings, casement sash, sash jambs



Product Overview – From Forest to Home



Environmental certification

LIFESPAN SOLID SELECT is manufactured with radiata pine from environmentally certified pine tree farms. Our processing mills are certified by the FSC® (www.fsc.org), demonstrating that they meet strict environmental, social, and economic standard.

We utilize leading technology and innovative techniques to maximize the recovery of logs into finished products and minimize waste in our mills. We use geothermal energy in our kiln drying operations, with the geothermal fluid being reinjected after use, thereby saving the use of fossil fuels and minimising greenhouse gases. Our equipment includes optimizing scanners in the sawmill, optimized ripping, and modern Weinig high-speed planers for a moulding quality finish.

Preservative

LIFESPAN SOLID SELECT has been treated with a solvent-based (non-aqueous), colorless, organic (metal free) wood preservative (LOSP-Light Organic Solvent Preservative). Three active ingredients (propiconazole, tebuconazole and permethrin) synergistically provide protection against a wide range of fungi, insects and rot:

- Propiconazole and tebuconazole are EPA approved systemic fungicides, used widely to control mould and mildew in agricultural and horticultural applications. Together, they protect lumber from a wide range of wood destroying fungi.
- Permethrin is an EPA registered insecticide used to protect wood against termites and borers. Permethrin has low mammalian toxicity and is approved for use in many agricultural, household and pharmaceutical applications.

This combination has been specifically formulated as an EPA approved wood preservative. It can be used in American Wood Preservers Association UC3A and UC3B applications. The chemicals are insoluble in water, remaining permanently in the wood and not leaching into the soil. The LOSP used in LIFESPAN SOLID SELECT is non-corrosive to fasteners, so LIFESPAN can be used with regular galvanized fasteners in exterior applications and any fastener type in interior applications.

Pressure treatment

Unlike traditional dip treatments and newer spray-on treatments that only reach outside surfaces, LIFESPAN SOLID SELECT is pressure treated, ensuring that the organic biocide penetrates and protects the entire sapwood substrate with precise quantities of preservative. This process avoids the surface roughness and grain-raising often associated with water-borne preservatives.

During pressure treatment, the wood is also impregnated with waxes and resins, which bond with the wood. These resist moisture uptake, enhancing the dimensional stability of LIFESPAN SOLID SELECT even when exposed to harsh environments of high humidity and precipitation. After treatment, the solvent is allowed to evaporate sufficiently to permit subsequent priming, packaging and shipping.

Primer system

LIFESPAN SOLID SELECT factory-applied two-coat alkyd primer system further protects against water infiltration and weathering. The first full primer coat provides deep penetration and high film build to provide water repellence and to limit cracking. The second primer coat acts as an undercoat, providing a smooth, even, defect-free surface for topcoating. The primers used in LIFESPAN SOLID SELECT are supplied by PPG Industries.



Performance

Durability

LIFESPAN SOLID SELECT carries a limited lifetime durability warranty against fungal decay (rot) and insect attack (including termites). Details of the warranty can be found on page 12 of this Manual.

Decay

The preservative system used in LIFESPAN SOLID SELECT has been extensively tested against fungal decay in laboratory tests and field tests around the world in extreme situations. The performance in these trials has provided the confidence to back LIFESPAN with a limited lifetime warranty against fungal decay. LIFESPAN SOLID SELECT is treated to an average retention of 0.08%*m/m* total azoles (0.06%*m/m* minimum) as a fungicide together with 0.02%*m/m* permethrin as an insecticide (termidicide).

Toxic values were determined by laboratory decay tests carried out in accordance with European protocols (EN113) using *Pinus sylvestris*. The minimum retentions (0.27kg/*m*³) used in LIFESPAN SOLID SELECT are much higher than these toxic values. The Mississippi Forest Products Laboratory of Mississippi State University established L-Joint trials (in accordance with AWP Standard E9-97) using Ponderosa pine at both Hilo, Hawaii and Saucier, Mississippi in 1996. L-Joint tests are designed to simulate performance in millwork applications.

These have been inspected yearly and results after six years exposure showed good resistance to decay, at retention levels less than used for LIFESPAN SOLID SELECT (0.27kg/*m*³ minimum) especially at Hilo, Hawaii, which is a recognized high hazard site for fungal decay.

Insects (including termites)

The LIFESPAN SOLID SELECT protection system also contains an insecticide, permethrin, which is effective against insects, including termites. The permethrin retention (0.02%*m/m*) used is approved in both Australia (AS1604) and New Zealand (NZS3640) and has been extensively used for out of ground contact applications. A recent trial by CSIRO, Australia (Susceptibility of Envelope-Treated Softwood to Subterranean Termite Damage, by James W. Creffield.

Forest Products Journal, December 2004) examined the performance of permethrin, as both an envelope and fully impregnated, against termites. Samples were exposed for 12 months at Gunn Point, Darwin, and Northern Territory, Australia where a species of termite, *Coptotermes acinaciformis*, is prevalent. All specimens showed evidence of contact with termites, indicating activity. The full penetration treatments with 0.02%*m/m* permethrin had a mean rating of 1.2 (radiata pine) with a range of 1-2, and 1.0 (slash pine). Untreated samples had a mean rating of 6.3 with a range of 5-7 (1 being sound; 7 being destroyed [75 to 100% mass loss]).

Further samples were exposed at Beerburum, Queensland where both *C. acinaciformis* and *Schedorhinotermes* spp. occur. Samples were examined after seven months. Samples that were fully treated with 0.02%*m/m* permethrin had no weight loss due to termite attack, whereas untreated controls had a weight loss of 16.2 to 262.5g. The successful control of termite attack by permethrin in Australia, involving a number of different termite species, provides an assurance that LIFESPAN SOLID SELECT products will also be protected from attack by the Formosan termite, *C. formosanus*.

Stability

Dimensional stability is a critical wood property for cladding, joinery and exterior millwork uses. One key element that contributes to the stability of wood products is the kiln drying process. Fletcher Wood Solutions' manufacturing process uses the latest in kilns and kiln technology to produce stable products. The use of final steaming to eliminate drying stresses is one example of this. Radiata pine has naturally low shrinkage, which contributes to its stability.

Compared to other North American softwoods, radiata pine has shrinkage comparable to ponderosa pine and lower than hemlock, loblolly pine and Douglas-fir. The use of high grade clear lumber from the outside of the log further enhances the dimensional stability of LIFESPAN SOLID SELECT products. In addition, the preservative treatment used in LIFESPAN SOLID SELECT contains waxes and resins, which significantly reduce the uptake of liquid water and subsequent swelling of wood. LIFESPAN SOLID SELECT products will show improved stability over untreated products.



Toxic Values (kg/m³) for Propiconazole/Tebuconazole (1:1)

Test fungus	Unaged	Evaporative aged (EN73)	Leached (EN84)
<i>Coniophora puteana</i>	0.010–0.020	0.020–0.030	0.040–0.070
<i>Gloeophyllum trabeum</i>	0.030–0.045	0.030–0.045	0.020–0.030
<i>Poria placenta</i>	0.050–0.070	0.030–0.045	0.040–0.070
<i>Coriolis versicolor</i> *	0.100–0.165	0.210–0.250	>0.180

Wocosen Product Information Sheet, Janssen Pharmaceutica, Plant and Material Protection Division. *Test used on beech wood.

Average Decay Ratings for Coated Ponderosa Pine L-Joints after Six Years Field Exposure

Treatment	L-Joint treatment solution concentration (% active)	L-Joint overall retention at average uptake of 301/m ³ (kg/m ³)	Decay Rating Hilo, Hawaii	Decay Rating Saucier, MS
Untreated			1.9	1.7
Propiconazole/tebuconazole (1:1) Vac-Vac treatment	0.2	0.06	8.7	9.7
	0.4	0.12	8.8	9.8
	0.6	0.18	7.9	10.0
	0.8	0.24	9.7	9.9
Penta, Dip treatment (control)	5.0		8.3	10.0
IBPC, Dip treatment (control)	0.5		6.9	8.9

Decay rating: 10 - sound, 0 - failure

Other field trials have been established in Australia and New Zealand:

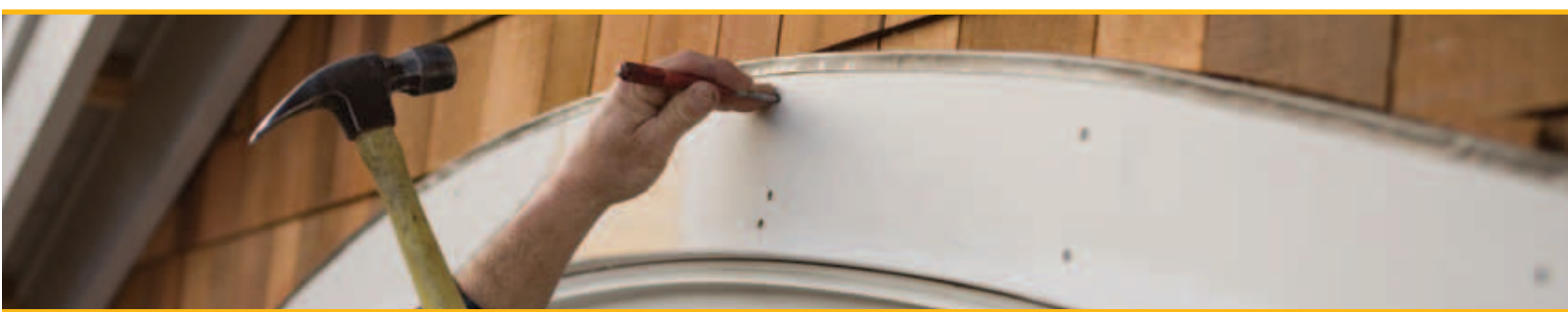
Average Decay Ratings for Treated and Untreated Pine

	Trial Type	Substrate	Condition	Azole Retention %m/m	Score	Sound	Failure	Start	Length of study	Location
A	Decking	Radiata	treated	0.057	9.2	10	0	1995	7 yrs	Rotorua, NZ
			untreated		0.8					
B	Decking	Radiata	treated	0.069	8.4	10	0	1998	5 yrs	Rotorua, NZ
			untreated		5.5					
C	Decking	Radiata	treated	0.069	8.8	10	0	1998	4 yrs	Queensland, Aus Beerburum State Forest
			untreated		3.4					
D	Decking	Radiata	treated	0.069	9	10	0	1998	4 yrs	Queensland, Aus Johnstone Research Sta.
			untreated		1.6					

*Retention level in LIFESPAN is over 4.6 times higher (minimum retention level .06%/m) Trials B, E and F were run concurrently.

Standards and Approvals

As a result of these and other tests, the azole preservative system is approved by Standards New Zealand (NZS3640:2003, incorporating Amendments 1, 2, and 3) for exterior above ground painted applications (equivalent to AWPAC UC3A) at a minimum retention of 0.06%/m total azole content. The LIFESPAN SOLID SELECT preservative system as used meets approvals by the Australian Pesticides & Veterinary Medicines Authority and Standards Australia (AS1604.1:2005, incorporating Amendment 1 2006) for use in exterior above ground applications where a minimum retention of 0.06%/m total azole content also applies, with incorporation of permethrin to meet a minimum Standards requirement of 0.02%/m. Such applications are as described in AWPAC Use Category classifications UC3A and UC3B. The system has similar approvals for use in the United Kingdom.



Handling and Installation

Where you can use lifespan solid select

LIFESPAN SOLID SELECT products are suitable for interior and all exterior above ground use classes (American Wood Preservatives Association UC3A and UC3B). The limited lifetime warranty against fungal decay and insects is null and void if the LIFESPAN SOLID SELECT product is used in contact with the ground, is used within 6" of the ground, or is used in conditions of prolonged water entrapment. LIFESPAN SOLID SELECT products are not designed for and should not be used in structural (load bearing) situations.

LIFESPAN SOLID SELECT may emit a solvent odor for a short period of time. This is similar to that of oil-based paint and results from the interwoven slip sheeting and containerization process. The slip sheeting protects the wood from blocking but does not allow for minute amounts of solvent to dissipate. Any noticeable odor will be well below the accepted threshold limit values (TLV) for long term exposure of 100ppm, and will disappear within a few days of airing.

Nailing

LIFESPAN SOLID SELECT products should be installed in accordance with the normal industry standards. Proper application and nailing practices are essential for maximizing the performance and appearance of LIFESPAN SOLID SELECT.

Building construction features that maximize performance of exterior wood products include: wide roof overhang, wide flashing at roof edges, correctly installed flashings around doors, windows and other openings, effective vapor barriers, adequate eave troughs and downspouts, exhaust fans to remove excessive moisture, and adequate attic insulation and ventilation.

In order to allow for normal seasonal wood movement, nailing should be such that it does not restrict movement - do not nail through overlapping pieces. Unlike treatments that contain high levels of copper or other metals, the active ingredients in LIFESPAN SOLID SELECT do not promote the corrosion of nails and fastenings. To fasten LIFESPAN SOLID SELECT in exterior applications, hot dipped galvanized nails are all that is needed. High tensile aluminum or stainless steel fasteners are also suitable. To fasten in interior applications, LIFESPAN SOLID SELECT requires no specialty nails; simply fasten as you would with any other interior wood product.

Hand nailing is recommended so that the factory primer seal will not be broken. If a nail gun is used, the precise adjustment of

air pressure is necessary to achieve a flush finish. Alternatively, nails can be countersunk 1/16" and filled with putty to obtain a smooth surface. Pre-drilling near the ends is recommended to avoid any possibility of end splitting.

All nailing should be over studs and total effective penetration into a solid wood base should be at least 1-1/2". Nailing patterns should comply with industry practices (see Exterior Wood in the South - Selection, Applications and Finishes. 1991. US Department of Agriculture, Forest Products Laboratory, General Technical Report, FPL-GTR-69).

Trimming, cutting and sealing requirements

While LIFESPAN SOLID SELECT is pressure treated throughout the substrate, cross-cutting and any other cutting, notching, etc. may expose wood with a lower concentration of treatment. LIFESPAN SOLID SELECT of 1" or under nominal thickness does not need to have cut surfaces, notches, and bored holes primed or treated, but for LIFESPAN of greater than 1" nominal thickness it is important (and a requirement of the warranty) that any such exposed wood be liberally swabbed with a brush-on or spray wood preservative.

Suitable products contain zinc naphthenate, such as Wolman Wood Preservative Clear, Cuprinol Clear, Dussek 8% ZnN, Protecto-Zinc and Greens Clear Wood Preservative. The active preservative components of LIFESPAN SOLID SELECT are insoluble in water and will not be leached out in service. However to maximise long term appearance, as good building practice, it is recommended to coat exposed end cuts and mitre joints, with a good quality exterior primer before final painting.

Any alteration of the shape or size of the product by machining (other than as a result of sawing to length or notching as required for fitting or joining) will void the limited lifetime warranty.

Gluing

Timber building products and exterior joinery are not normally glued onsite, but if the occasion should arise any standard wood glue - with the exception of casein containing glues - may be used with LIFESPAN SOLID SELECT products.

LIFESPAN SOLID SELECT is not intended for structural uses. Where impact adhesives are to be used or highly stressed glue joints are to be made (e.g. glue laminated beams), specific advice should be sought from Fletcher Wood Solutions.



Putties, mastics, sealants

Putties, mastics and sealers should be compatible with alkyd (oil-based) paints to be suitable for use with LIFESPAN SOLID SELECT. The relevant manufacturer's advice should be sought, e.g. Sika, Dow, and Master Builders.

Painting

For best results, and in line with general industry best practices, LIFESPAN SOLID SELECT products should be painted as soon as possible after installation. To ensure your limited lifetime warranty, LIFESPAN SOLID SELECT should be over coated within two months of first installation.

The smooth, defect free surface results from two coats of manufacturer applied, special purpose primer. Simply fill and prepare the wood for the finish coat using paint manufacturer's specified instructions (e.g. use exterior filler if used on the outside of a building, spot prime and sand if necessary, clean and remove surface debris). Always follow the paint manufacturer's recommendation for the application and maintenance of paint. For best results, choose a high-quality exterior acrylic/latex or oil-based paint system.

PPG industries offers an extended topcoat paint warranty for LIFESPAN SOLID SELECT when topcoated using their family of paint products (Monarch, Olympic, Porter, Pittsburgh Paints). The paint warranty is separate from the substrate warranty. For details of this, contact Olympic Paints and Pittsburgh Paints at 877-622-4277.

Resin bleed

LIFESPAN SOLID SELECT is manufactured from radiata pine. As a natural material, it may contain resin as a natural constituent. In hot, sheltered conditions where the product has been painted a dark color, resin bleed may occur. If the above specification is followed, any resin bleed will be minimized. It is recommended that LIFESPAN SOLID SELECT be painted in light colors (Light Reflectance Value (LRV) greater than 40%). Any subsequent resin bleed may be repaired by sanding back and spot priming with a stain and bleed sealer.

Storage

Prior to installation, and pending top coating with paint, LIFESPAN SOLID SELECT should be protected from direct sunlight, dirt and other elements. LIFESPAN SOLID SELECT needs to be stored in a dry location, not directly on the ground, preferably on bearers protected with a waterproof cover. However, allow air circulation from beneath to allow the product to acclimatize (LIFESPAN SOLID SELECT packets are wrapped on four sides and top, leaving the bottom unwrapped). Do not completely seal the bundle.

Disposal

Properly clean up and dispose of all sawdust and off-cuts after construction by ordinary trash collection.

Health and safety

LIFESPAN SOLID SELECT is safe to use and is suitable for both interior and exterior applications. The active ingredients in the organic treatment are in total less than 0.1%, significantly lower than most other treatment alternatives. However, even though adverse effects on the user of LIFESPAN SOLID SELECT products are extremely unlikely, it is not always possible to anticipate an individual's sensitivity to the chemicals used. It is important, therefore, to take sensible precautions to minimize exposure to these chemicals when working with LIFESPAN SOLID SELECT. In particular, we recommend that you:

- Do not use LIFESPAN SOLID SELECT under circumstances where the preservative may contact or become a component of food or animal feed. Examples of such uses would be cutting boards, counter tops, animal bedding, and structures or containers for storing animal feed or human food.
- Do not use LIFESPAN SOLID SELECT for construction of those portions of beehives that may come into contact with honey.
- Always maintain good woodworking practices, and particularly avoid inhalation of sawdust.
- When sawing, sanding and machining LIFESPAN SOLID SELECT, as for any wood product, always wear a class P1 or P2 replaceable filter or disposable half face piece respirator. These operations should be performed outdoors to avoid indoor accumulations of airborne sawdust.
- Launder clothing that has had sawdust accumulate on it prior to reuse. Wash work clothes separately from other household clothing.
- When power-sawing and machining, and in areas with high dust levels, wear goggles to protect eyes from flying particles.
- Wear gloves and protective clothing when working with LIFESPAN SOLID SELECT. After working with LIFESPAN SOLID SELECT, wash exposed skin areas thoroughly before eating, drinking or using tobacco products. Avoid hand-to-mouth contact with soiled hands.

Do not burn LIFESPAN SOLID SELECT, because when burned, the chemicals used may become toxic as part of smoke and ash. In particular, LIFESPAN SOLID SELECT should not be burned in open fires or in stoves, fireplaces or residential boilers. Treated wood may be burned only in commercial or industrial incinerators or boilers in accordance with state and Federal regulations.



Limited lifetime warranty against fungal decay and insect attack

The LIFESPAN SOLID SELECT range of treated wood products is supported by a limited lifetime warranty for protection against fungal decay and insect attack. Where any LIFESPAN SOLID SELECT product used in the appropriate application becomes structurally or functionally unserviceable during the lifetime of the original consumer purchaser due to fungal decay or insect attack, then replacement of the material will be provided by the manufacturer.

This Warranty is limited to the original consumer purchaser or "first owners". The manufacturer's liability under this Warranty is limited to the replacement cost of the defective LIFESPAN SOLID SELECT product only. It does not include any other costs including freight, labor costs, finishing costs, consequential damages, incidental damages, or special damages arising directly or indirectly from the LIFESPAN SOLID SELECT product, however caused.

To be covered under the limited lifetime Warranty, the "first owner" must be the recorded or documented owner of the property at the time or within 12 months of the time the LIFESPAN wood product is installed by the builder or contractor. In all other circumstances the limited lifetime LIFESPAN SOLID SELECT Warranty is not transferable to subsequent owners of the property. In order to claim on this Warranty, the "first owners" must provide, at the time of claim, proof of purchase. This is necessary so that Fletcher Wood Solutions can properly identify the product as a LIFESPAN SOLID SELECT product.

This could include original invoices or sales receipts, or any LIFESPAN SOLID SELECT end tags. Fletcher Wood Solutions may require, as a condition of meeting any warranty claim, to inspect the relevant installation. In addition to satisfying all other conditions, limitations, and requirements referenced in this Warranty, any claims under this Warranty are specifically excluded unless the following specific terms and conditions are also satisfied:

- Compliance with all applicable Building Codes and Standards
- Compliance with the appropriate Hazard Class or Use Category (UC3A and UC3B). See "Where You Can Use LIFESPAN SOLID SELECT" under the "Handling and Installation" section on page 10.

- Handling and installation requirements. See the "Handling and Installation" requirements section on page 10.
- The LIFESPAN SOLID SELECT must have been well maintained in service in accordance with standard building recommendations and practices.

Except for the foregoing, and to the maximum extent permitted by law, Tenon makes no other warranties, representations, or conditions, expressed or implied, as to or concerning LIFESPAN SOLID SELECT including claims and complaints relating to priming, painting, resin bleed, environmental, or health and safety issues and any and all other representations, warranties, terms and conditions implied by any laws are excluded.

Fletcher Wood Solutions makes no claim that LIFESPAN SOLID SELECT will protect non-LIFESPAN products from insects, rot or fungi. For further information regarding the terms and conditions, please contact your LIFESPAN SOLID SELECT supplier.



Information Sources

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Version 01/12

ROOFING

The Englert Advantage in Metal Roofing:

ALUMINUM & STEEL

SHEETS AND COIL

NOW, THE LEADER IN METAL ROOFING BRINGS YOU A FULL RANGE OF ALUMINUM AND STEEL PRODUCTS.

Whether it's a reroofing project or new construction, Englert makes buying aluminum and steel easier than ever. Our team of reliable professionals is known and trusted from coast to coast for the highest standard of quality and service. As one of the leading single-source roofing suppliers, Englert offers powerful advantages like unmatched customer service, a wide selection of products and cost efficiency. Our extensive nationwide distribution network assures you virtually 100% product availability in a complete range of color choices.

THE BENEFITS OF WORKING WITH ENGLERT

Technological leadership for quality without question.

Englert systems permit complex roof configurations from ridge to eave, to ensure a crisp roof line and greater weather-tightness. Our metal roofing systems have earned the Energy Star® label, and reflect radiant heat back to the sun, reducing cooling requirements and saving energy consumption.

Sales and technical support whenever you need it.

You can count on responsible, experienced support at every stage of your project. We provide knowledgeable assistance with everything from product selection to installation issues. Skilled technical advice and a list of nationwide certified installers are just a call away.

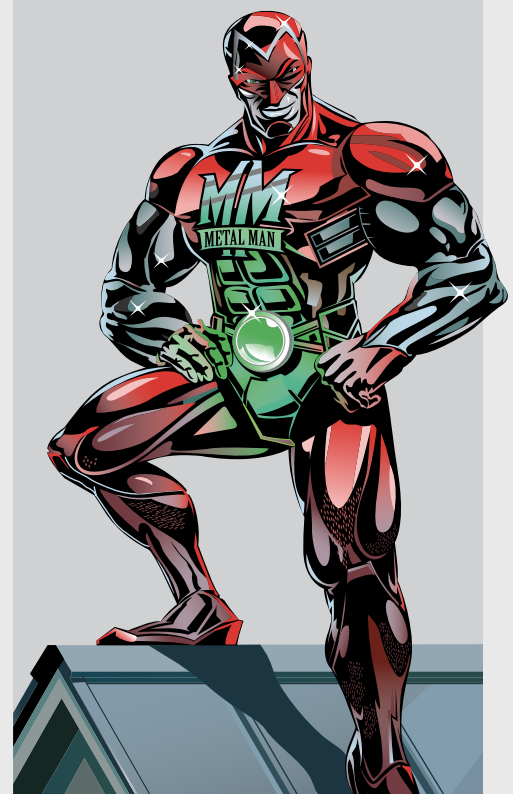
Comprehensive warranty on metal and finish.

Virtually maintenance-free, Englert aluminum roofing carries up to a 35-year limited warranty on paint finish against peeling, blistering, chalking or color change.



THE METAL EXPERTS

Englert is one of the nation's leading forces in metal roofing, rainware, coil coating and portable roll-forming equipment. Since 1966, we've been a pioneer in building products – from the development of LeafGuard®, the revolutionary debris-shedding gutter system, to fully integrated metal roofing with an in-house, continuous coil coating line.



FINISHES THAT MEET ANY DESIGN OBJECTIVE

Englert is one of the few single-source metal roof manufacturers with an in-house coil coating line and an exceptionally broad range of finishes, whether the design calls for a natural weathered appearance or bright, high-performance, full-strength fluorocarbon colors.

Custom Colors

We can match the color of virtually any material, including brick, wood and fabric. Englert offers short lead times, and our minimum custom-color order requirements are among the industry's lowest.



ROOFING KYNAR-COATED STANDARDS IN STOCK - SHEET AND COIL

COLORS	STEEL			ALUMINUM			
	22g	24g	26g	.032	.040	.050	.063
Galvalume Plus		3	3	NA	NA	NA	NA
Burgundy		3	3	3			
Bone White		3		3	3	3	
Charcoal Gray		3	3	3	3	3	
Colonial Red		3	3	3		3	
Dark Bronze		3	3	3	3	3	
Dove Gray		3		3	3	3	
Deep Red		3		3			
Everglade Moss		3		3			
Forest Green		3	3	3	3	3	
Hartford Green		3	3	3	3	3	
Hemlock Green		3		3		3	
Mansard Brown		3	3	3	3	3	
Medium Bronze		3	3	3	3	3	
Mill Finish (Aluminum)	NA	NA	NA	3	3	3	3

COLORS	STEEL			ALUMINUM			
	22g	24g	26g	.032	.040	.050	.063
Matte Black		3	3	3	3	3	
Pacific Blue		3		3			
Patina Green		3		3			
Royal Blue		3		3		3	
Slate Blue		3		3		3	
Slate Gray		3	3	3	3	3	
Sunnet Blue		3		3			
Sandstone		3		3	3	3	
Sierra Tan		3		3	3	3	
Stone White		3		3	3	3	
Terracotta		3		3		3	
Champagne (Metallic)*							
Copper (Metallic)*		3		3	3	3	
Prewathered (Metallic)*		3		3	3	3	

*Premium Priced Paint System

3 - Standard - Minimum Quantities Required NA = Not Available

Due to the limitations of printing processes, this color chart is not an accurate representation of our actual colors. Sample chips are available on request at no charge.

POLYESTER COATED SHEETS - ALUMINUM

COLORS (TWO-SIDED)		4' x 10'		4' x 8'	
		.032	.040	.032	.040
Bronze	Low-Gloss White	3	3	3	
Hi-Gloss White	Hi-Gloss White	3	3	3	



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90097E

SIDING

Individual Shingles Installation Guide

U.S. VERSION

Read this entire guide before installing Maibec individual shingles. For proper installation, you must understand and follow all requirements and steps correctly. **DOWNLOAD THE LATEST VERSION ONLINE AT MAIBEC.COM.** For any questions, please contact Maibec's technical service toll-free at 1 800 363-1930, Monday to Friday from 8:30 a.m. to 4:30 p.m. (Eastern Time).

IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.

Factory-stained white cedar individual shingles can only be installed to exterior wall surfaces.

Shingles have one side that is smoother and more uniform than the other. Be sure to install them with this side facing outward.

1. STORAGE

- Store the shingle siding in an unheated, dry and ventilated area.
- Leave shingle boxes on pallet. Do not store the material in direct contact with the ground or a cement floor.
- Always cover the uninstalled material after a day's work.

2. BEFORE YOU BEGIN INSTALLATION

CHECK YOUR ORDER

- Make sure the product(s) delivered matches your order (color, quantity etc.).
- Have touch-up stain on hand.
- Never install a product that appears to be or that you think may be defective. Installed defective products are not covered by the warranty. Contact Maibec at 1 800 363-1930.

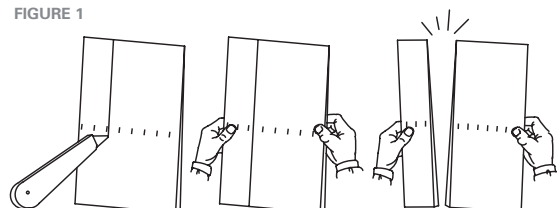
CONSULT THE BUILDING CODES

Consult the building codes applicable in your region for requirements regarding the installation of shingle siding, breather membrane (housewrap), caulking, etc. Follow the manufacturer's instructions for installing the breather membrane and applying caulking.

3. CUTTING SHINGLES

Since cedar is a soft wood, shingles can be easily cut with a utility knife. Cutting a shingle lengthwise is simple: make a straight cut into its surface, then snap the shingle cleanly along the scored line or use a power saw.

FIGURE 1



4. TOUCH-UP STAIN

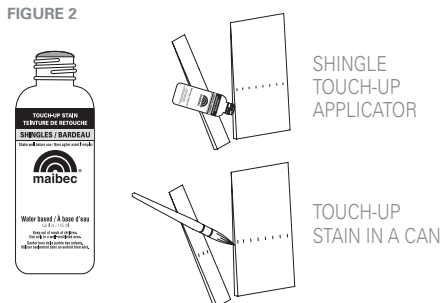
Apply touch-up stain on all cuts, planed edges, and small damaged areas. All bare wood must be touched-up, regardless of whether it is visible or not once installed. Touch-up on cuts must be performed prior to shingle installation.

For shingle touch-ups, use the Maibec touch-up applicator.
For shingle touch-ups when using touch-up stain in a can, use a polyester, nylon, or any synthetic applicator with firm bristles approved for water-based coatings. Do not use wide brushes that could cause drips and give poor results. Carefully dab, do not spillover or overbrush.

Touch-up stain is only meant to be used in the area in need of it. It must not, under any circumstance, be applied over non-damaged factory coated material.

For more information, see the touch-up guide that comes with the touch-up stain cans or kits, or go to maibec.com/us/support.

FIGURE 2



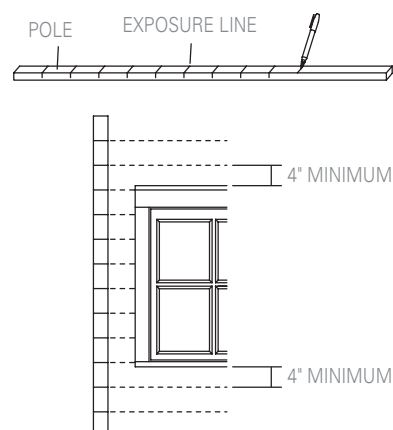
5. DETERMINING EXPOSURE

The exposure is the part of the shingle that you see. **The exposure for shingles is 5"** but can vary between 1/8" to 1/4" depending on the height of the wall and the window positions.

To determine the number of courses needed and the exposure, measure the height of the wall from its lowest point (above the foundations). The butt edge of the first course of shingles must extend at least 1" beyond the foundation, so add 1" to the height of the wall. To determine the number of courses, divide the height of the wall by the exposure (5"). Then calculate back by dividing the height of the wall by the number of courses previously obtained (rounded off) to determine the exact exposure.

Use a wooden pole that is long enough to measure the exposure over several courses. A straight furring strip should do the job. Once marked, place the pole against the wall to check the alignment of the courses with the windows. If possible, the shingle courses should be aligned with window tops and bottoms, or the exposure should be at least 4" in these areas. The last course at the top of the wall should also have at least 4" of exposure. If not, recalculate to get enough exposure, then mark the pole once again. Using the pole, mark the exposure lines on the wall. Keep the pole as a reference while installing the shingles.

FIGURE 3



6. FASTENERS

THE FASTENING REFERENCE LINE

Shingle fastening is simpler with this easily identifiable guide. The reference line is found 6 1/4" from the base of the shingle. For the 5" required shingle exposure, fasten just below the reference line to respect the installation requirement. Each individual shingle is marked on one side.

NAILS:

- stainless steel or hot dipped galvanized
- ring shank blunt tip nail with minimum 7/32" head or

STAPLES:

- stainless steel or aluminum staple with minimum 7/16" crown, minimum 16 gauge.

Two fasteners per shingle, regardless of its width. Located 3/4" from each edge and 1" above the butt line of the overlapping shingle. Must penetrate solid nailable substrate minimum 1/2" (example: plywood).

FIGURE 4

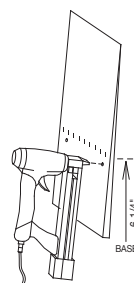
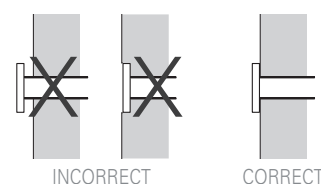


FIGURE 5

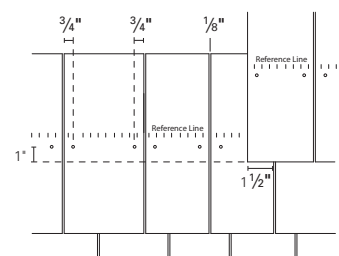


7. EXPOSURE AND KEYWAY SPACING

The exposure for shingles is 5".

Leave a keyway space of at least 1/8" between shingles. The edges should not touch. The keyway spacings on consecutive rows must be offset a minimum 1 1/2".

FIGURE 6



8. THE STARTER COURSE

The starter course has two layers of shingles. The easiest method consists of installing 2 courses of full-length shingles one on top of the other, making sure that joints aren't aligned over subsequent courses. [FIGURE 7]

Another method consists of installing the first course using shingles trimmed 5" from the base, then continuing the second course with full-length shingles, making sure that joints aren't aligned over subsequent courses. With this method, all the courses will have the same thickness on the wall. [FIGURE 8]

The starter course must extend at least 1" beyond the foundation to keep water off the wall. The second course extends slightly below (1/2") the starter course to allow water to drip at the base of the shingles by gravity. [FIGURE 9]

The butt line of the starter course must have a minimum clearance of 6" with the ground surrounding the building.

ALLOW A MINIMUM CLEARANCE OF:

- 1" from adjacent horizontal structures (example: deck),
- 1/2" from roof shingles or according to building code.

FIGURE 7

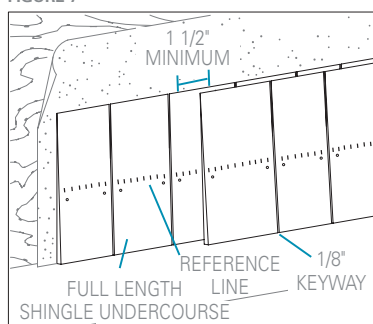


FIGURE 8

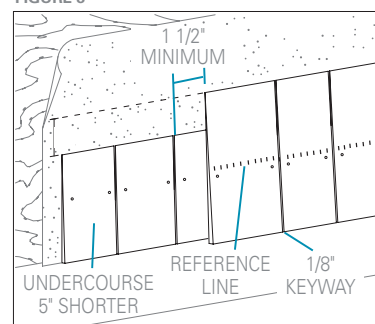
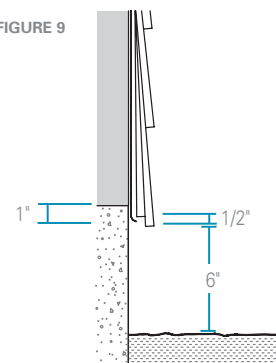


FIGURE 9



9. SUBSEQUENT COURSES

Shingles come in random widths, so you must make sure that the joints are not aligned over subsequent courses. Leave a keyway spacing of at least 1 1/2" from the shingles in the previous course. Ideally, no joints should be aligned over three subsequent courses. No joint should occur over a knot. [FIGURE 10]

Install subsequent courses in a single layer on the rest of the wall according to the determined exposure. Keep your courses straight and level. To make shingle alignment easier, tack a furring strip beneath the exposure line or make a chalk line. [FIGURE 11]

FIGURE 10

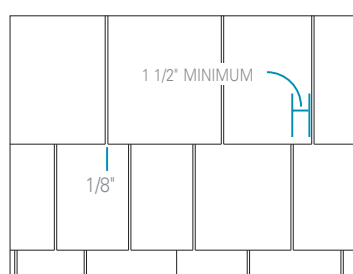
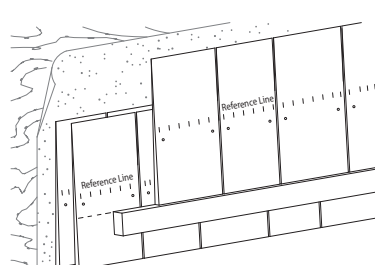


FIGURE 11



IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.

10. CORNERS FINISH DETAILS

The most common and traditional outside corner trim is made by overlapping shingles so that the joints alternate successively on each side of the corner. Nail the lower corner of the shingle with a ring shank blunt tip nail. [FIGURE 12]

- Choose a corner shingle that is wide enough to extend beyond the wall. Trim excess cleanly with a utility knife. You can trim it in place using the corner of the wall as a guideline, but for greater precision, you can mark a pencil line on the back of the shingle and cut it flat. [FIGURE 13]
- Tack the shingle in place while you install a second shingle that also extends beyond the wall on the other side. Trim the shingle, using the first shingle as a guideline. For a smooth finish, use a plane. [FIGURE 14]
- Apply touch-up stain to the cut edges, then nail the shingles in place according to the nailing recommendations. [FIGURE 15]

FIGURE 12

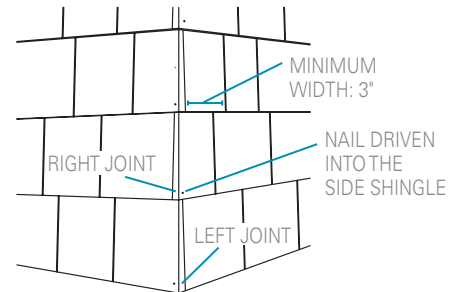


FIGURE 13

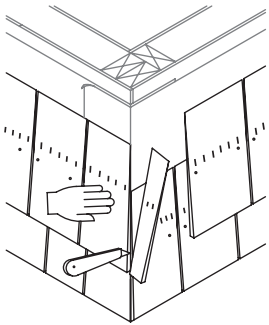


FIGURE 14

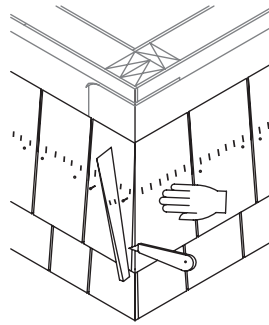
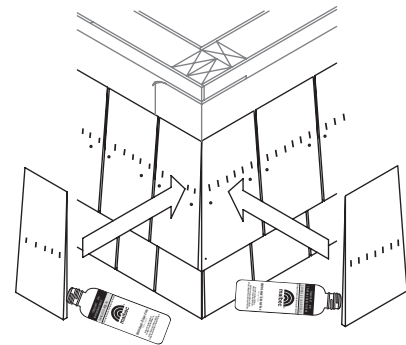


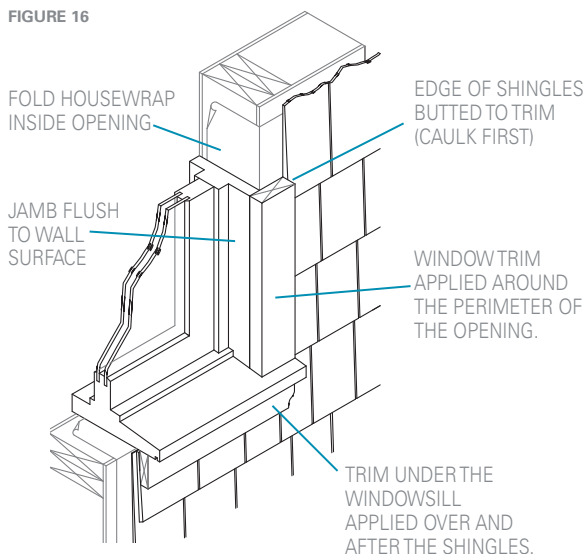
FIGURE 15



11. WINDOW FINISH DETAILS

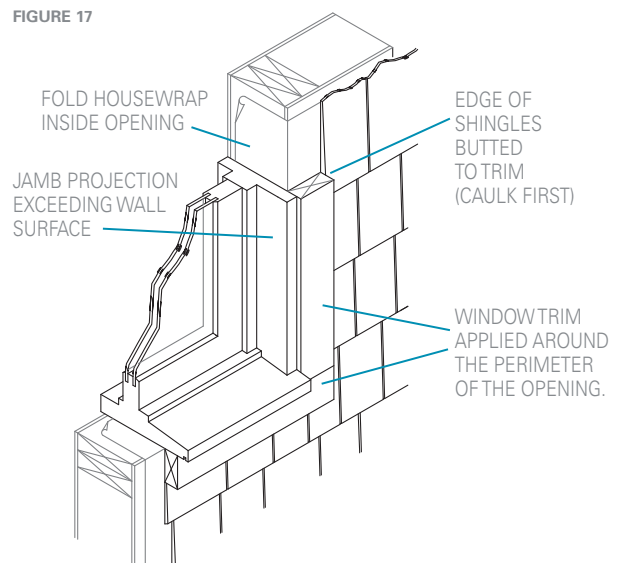
WOOD CASED TRIM

FIGURE 16



PERIMETER WOOD TRIM

FIGURE 17



IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.

11. Window Finish Details (cont'd)

When a shingle is installed against the lower corner of the window opening, the joint must be aligned with the edge of the opening. For greater stability of shingles below openings, apply glue to the back and nail the bottom corners. Pre-drilling of the shingles may be required. [FIGURE 18]

THE WINDOW HEADER

The window header is a crucial element where water could accumulate and seep behind shingles, which could affect the structural integrity of the window frame. [FIGURE 19]

Metal flashing is essential to keep moisture away from the window header. The flashing should extend beyond the trim that will be installed. [FIGURE 20]

Shingles installed above window and door headers must be spaced $\frac{1}{4}$ " to $\frac{1}{2}$ " to ensure proper drainage and airflow. [FIGURE 21]

FIGURE 19

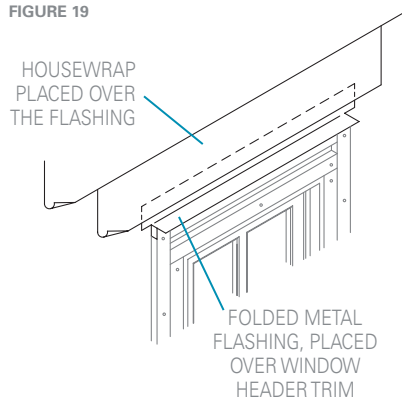


FIGURE 20

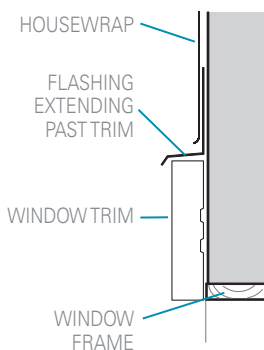


FIGURE 18

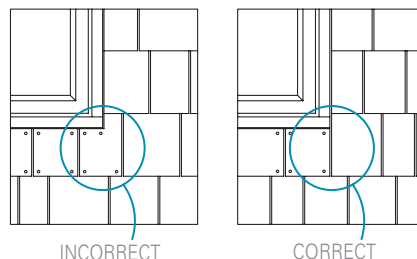
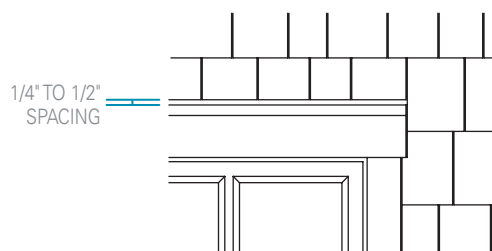


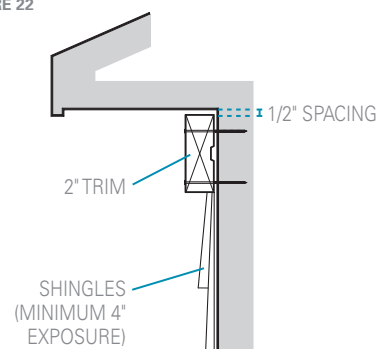
FIGURE 21



12. TOP OF THE WALL FINISH DETAILS

The typical way to finish the top of a wall is to install a trim and have the shingles butt directly to it. This is traditionally done when the shingle course is wide enough, a minimum 4" long shingle is the norm for this type of application. To facilitate airflow at the top of the wall, it is important to leave a $\frac{1}{2}$ " gap between the trim and the soffit.

FIGURE 22



13. GABLES

Finishing under sloping soffits such as gables calls for special attention because the remaining triangular shingles have visible nails. These shingles are often narrower and more fragile. You must glue the back, cover with a trim and sometimes nail the lower corner for greater stability and to keep them from curling. There are several ways this can be done.

Cut the shingles at the end of the course on the same angle as the gable. This way the end shingles need fewer nails. [FIGURES 23 and 24]

OR Leave the section open at the end of the course. [FIGURE 25]

FIGURE 23

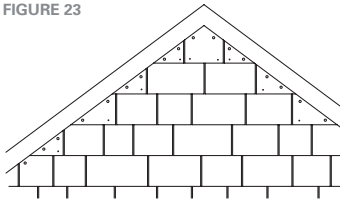


FIGURE 24

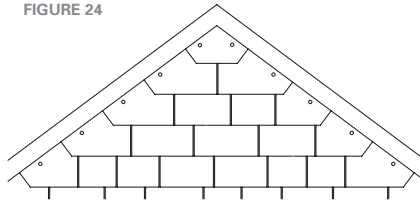
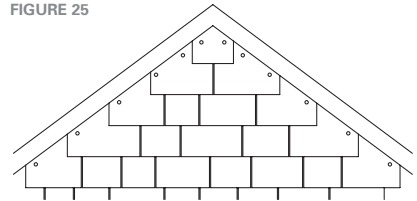


FIGURE 25

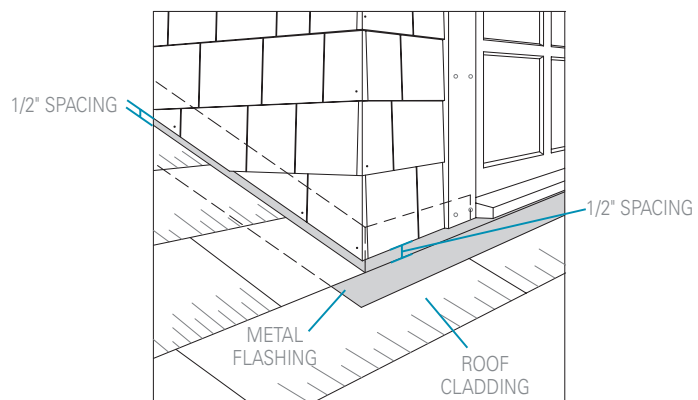


See the Maibec Wides Installation Guide at maibec.com/us/support.

14. DORMER/ROOF JUNCTION FINISH DETAILS

The shingle must be spaced at least 1/2" when it ends adjacent to the roof surface (or according to the building code). The spacing is necessary to properly drain water and prevent the build-up of ice against the shingles siding.

FIGURE 26



15. MAINTENANCE

As with all sidings, dirt build-up can occur; this can be due to a number of factors such as surrounding vegetation, dust or air pollution. Periodic cleaning may be required. Clean the dirt off of the siding using a gentle water spray from a household low-pressure garden hose (under 100 psi). In rare instances where the dirt is not removed with a simple spray of water, you can gently scrub the surface using a soft brush and a non-abrasive laundry detergent, or a dishwasher detergent diluted

as follows: 1/3 cup detergent for 0.8 gallon of water. Because they produce suds, dish detergent are not recommended.

Rinse gently with a low-pressure garden hose (less than 100 psi). **Do not use a pressure washer.**

See the Maibec Sidings Maintenance Guide for more details at maibec.com/us/support/maintenance-program.

 Drawings not to scale.

IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.

LIGHTING

LIGHTING SCHEDULE

The image shows a musical score for the song "The Rose Tree". It is a 12-measure piece in 2/4 time, with a key signature of one flat (B-flat). The score is written for a single melodic line on a five-line staff. The melody is simple and catchy, with a clear 8-measure first phrase and a 4-measure second phrase. The notes are mostly quarter and eighth notes, with some rests. The score is presented in a clean, black-and-white format, typical of a printed musical score.

EXTERIOR SCONCE

L U S A™

Meet the light of your life.

Wall Mount Cylinder Installation

SHT-10114

lusalighting.com

For your safety, read and understand these instructions completely before starting installation.

The electrical product contained herein is designed to meet the requirements of UL 1598 and the current NFP regulations as published in the National Electrical Code (NEC). Specific modifications and revisions in your area may differ from this standard. Compliance with local building and electrical codes must be confirmed before installation.

WARNING - To prevent wiring damage or abrasion, do not pinch or damage exposed wiring during installation. Keep away from edges of sheet metal or other sharp objects.

WARNING - Risk of fire or electric shock. Installation of this product requires a person familiar with the construction and operation of the luminaire's electrical system and the hazard involved. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING - Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features shown in the photographs and / or drawings. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

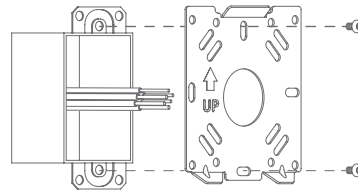
WARNING - Risk of fire or electric shock. Do not alter, relocate or remove wiring, lamp holders, power supply, or any other electrical component.

BEFORE YOU INSTALL - Power must be turned off prior to installation. Failure to do so may cause electric shock, which may result in injury or death. Ensure that electrical connection is in accordance with local and NEC standards and that wiring is 120VAC.

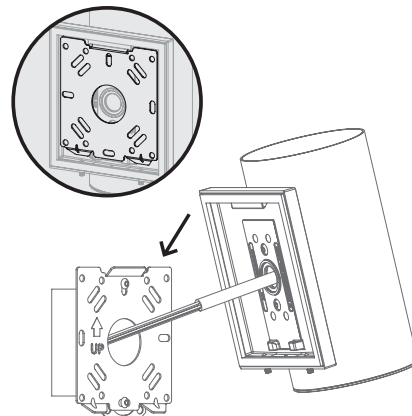
Wall Mount Cylinder Installation CW6BWH, CW6BBK

The following instructions are for use with two-gang, 3" octagonal, 3" round metallic, 3" round non-metallic old-work, 4" octagonal, 4" round, and 4" square junction boxes.

1. Route the building's electrical supply wires through the junction box adapter, then secure the adapter to the junction box using two (2) screws (not included).

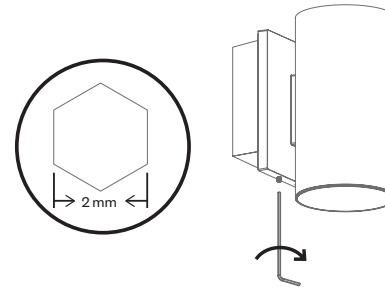


2. Connect the cylinder to the electrical circuit, ensuring compliance with local and NEC standards. Push these connections into the junction box through the adapter's opening.



3. Align the bracket on the back of the cylinder with the protruding cleat on the junction box adapter, fitting them together.

4. Press firmly to seat the cylinder and bracket onto the junction box adapter. Use a hex key to secure the bracket to the adapter using two (2) socket headset screws (included).

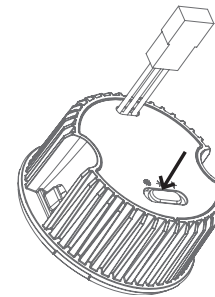


5. Set the Brightness Switch to your desired setting:

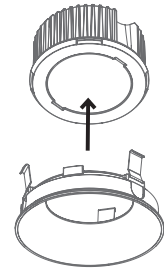
☐- Soft Light: 350 lm (5W)

☐- 7-9 ft Ceiling: 750 lm (9W)

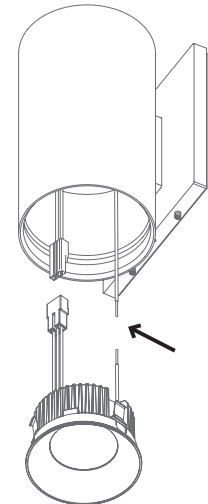
☐- 9-12 ft Ceiling: 950 lm (12W)



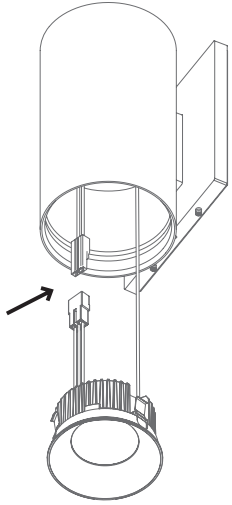
6. Attach the trim to the module, applying pressure until the tension clips snap into place.



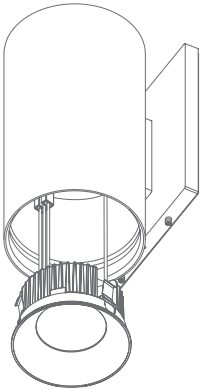
7. Connect the module's ground wire to the building ground, adhering to local and NEC standards.



8. Connect the module power connector.



9. Insert the trim and attached module into the cylinder. Press until fully seated into cylinder.



Good light. Good life.

SEE SCHEDULE FOR INTERIOR LIGHTS



SPECIFICATION SHEETS

OB400-CCT27

High performance recessed downlight with 27K-3K-4K selectable color temperature



NAME:

TYPE:

DATE:

NOTES:

SPECIFICATIONS

LIGHT UNIT:	Aluminum Die cast with powder paint coat preventing discoloring and rusting.
WIRING:	Plenum rated cable used to connect light unit and junction box.
JUNCTION BOX:	Aluminum extrusion, with full ½" knockouts on each side and the end of the junction box. Wiring compartment allows for (6) 12 gauge (AWG) or (8) 14 gauge (AWG) insulated conductors. Connection to one (1) downstream unit is permitted within the junction box compartment. The compartment satisfies junction box volume requirements of CSA C22.2 No. 250.0/UL 1598.
INSTALLATION:	Ideal for ceiling installations with no housing required. Steel spring clip for easy installation. Suitable for installation in t-grid and drop ceiling applications.
OPTICS:	COB (Chip on Board) LED technology uses light guided reflector to distribute light and optimize high level of delivered lumens. The regressed Gimbal design offers an anti-glare feature.
ELECTRICAL & PHASE CONTROL:	Easily connected to a 120V power supply via provided UL recognized driver. Optional 120-277V, 0-10V dimming driver available. Dimming down to 10% with most standard LED dimmers (see list of approved dimmers). Ambient operating temperature: -40°C (-40°F) to +40°C (+104°F). IC, WET Location and AIR-TIGHT rated. Phase Control: Forward Phase. Certifications: This product is ETL listed in USA & Canada, certified to UL standard 1598 and CSA standard C22.2 No. 250.0-08

CUTTING HOLE:	3.25" (83mm)
MOUNTING PLATE:	MP300 / AMP300 / MPHB250-450
BEAM ANGLE:	36°
GIMBAL ANGLE / HEAD ROTATION:	27° / 360°
COLOR TEMPERATURE:	27K-3K-4K
CRI*:	90
LUMEN OUTPUT:	800 lumens
DIMMABLE:	Yes
WATTS:	11 watts
LED LIFE:	50,000 hours
WARRANTY:	5 years
WIRE CABLE:	FT4
DRIVER (SPECIAL ORDER):	120-277V, 0-10V Dimming (Model: OB300-400-277V-CCT)

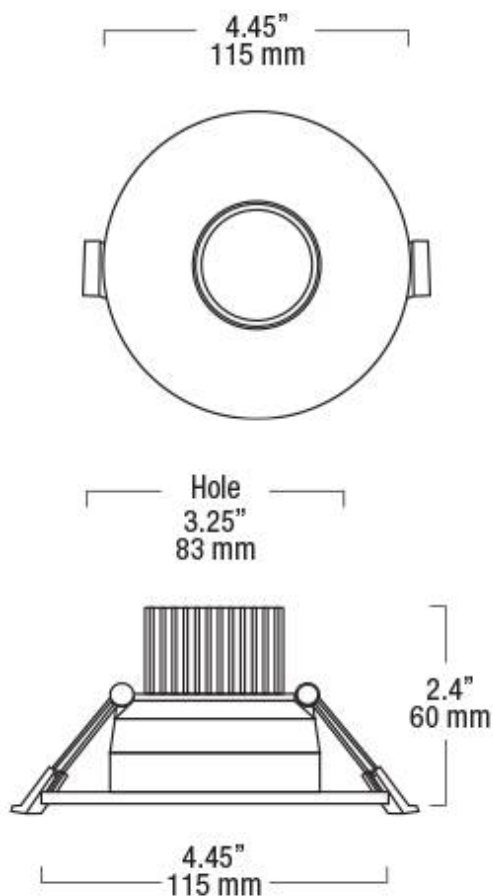
APPLICATIONS

The ORBIT series offers a high-performance LED (COB) recessed downlight with a pressure-fit spring clip application for an easy install. Whether it is a Remodel or New Construction installation, this unit is well suited for indoor / outdoor residential, hospitality, commercial and multifamily applications. It does not require a recessed housing for installation.

OB400-CCT27

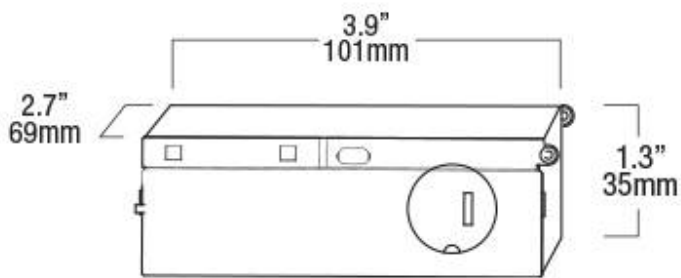
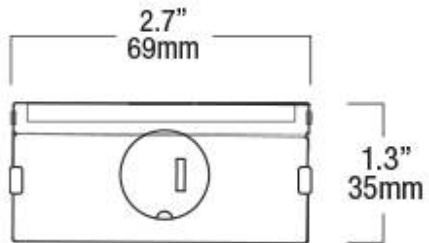
High performance recessed downlight with 27K-3K-4K selectable color temperature

DIMENSIONS



OB400-CCT27

High performance recessed downlight with 27K-3K-4K selectable color temperature



OB400-CCT27

High performance recessed downlight with 27K-3K-4K selectable color temperature

ACCESSORIES



MOUNTING PLATE

Versatile square mounting plate allows for installation of all models of ndr lighting recessed lighting products. refer to our mounting plate compatibility chart to ensure the proper mounting plate is selected.



REMODEL VAPOUR BARRIER

The remodel vapour barrier unit may be used with all ndr lighting remodel housings. it is designed to prevent air leakage from your living space into the attic, or any insulated spaces.



ADJUSTABLE MOUNTING PLATE

Versatile adjustable mounting plate allows for installation of all models of ndr lighting recessed lighting products. refer to our mounting plate compatibility chart to ensure the proper mounting plate is selected.



GOOF RINGS

This goof ring is used when the ceiling hole is wider than the retrofit light unit being installed. refer to our goof ring compatibility chart to ensure the proper goof ring is selected.



UNIVERSAL MOUNTING PLATE WITH ADJUSTABLE HANGER BARS

This multi-size adjustable mounting plate allows for installation of all models of ndr lighting recessed lighting products. refer to our mounting plate compatibility chart to ensure the proper mounting plate is selected.



ORBIT MULTIPLATE

Our orbit line of led downlights is so amazing that you just cannot get enough of them! this orbit series accessory allows you to combine our 2" and 3" orbits into doubles or triples for an elegant, even brighter directional light source. just drop a couple of orbits in and they're installed faster than you think. a multiple look in seconds. "strength in numbers" has never been more relevant.

RATINGS

AIRTIGHT
RATED



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RATED



ORDERING GUIDE

ORBIT 400 CCT27 Series

Series	Color Temperature	Finish
OB400-CCT27	CCT27 27K-3K-4K/90CRI/11W	WH White
	CCT27 27K-3K-4K/90CRI/11W	BK Black
	CCT27 27K-3K-4K/90CRI/11W	BRZ Bronze
	CCT27 27K-3K-4K/90CRI/11W	SC Satin Chrome

Notes: Configure product using **BOLD** options: Ex: **OB400-CCT27-WH**

HVAC

MSZ-FS06NA & MUZ-FS06NA
6,000 BTU/H DELUXE WALL-MOUNTED INDOOR UNIT
6,000 BTU/H HYPER-HEATING OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-FS06NA

Outdoor Unit.....MUZ-FS06NA

INDOOR UNIT FEATURES

- Slim wall-mounted indoor units provide zone comfort control
- Dual Barrier Coating applied to the heat exchanger, vanes and fan to prevent hydrophilic and hydrophobic dirt build-up
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 3D i-see Sensor® enables advance features:
 - Indirect or Direct Airflow for personalized comfort
 - Absence Detection for energy-saving mode
- Double Vane features:
 - Separates airflow to deliver air across a large area
 - Simultaneously deliver to air separate sections of a room
 - Generates more comfortable natural airflow pattern
- Multiple control options available:
 - Back-lit screen handheld remote controller (provided with unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter
- Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- Quiet operation

OUTDOOR UNIT FEATURES

- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- H2i plus™ performance offers 100% heating capacity at -5° and 70% to 81% heating capacity at -13° F
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

SPECIFICATIONS: MSZ-FS06NA & MUZ-FS06NA

Cooling at 95°F ¹	Maximum Capacity	BTU/H	9,000
	Rated Capacity	BTU/H	6,000
	Minimum Capacity	BTU/H	1,700
	Maximum Power Input	W	560
	Rated Power Input	W	315
	Moisture Removal	Pints/h	0.2
	Sensible Heat Factor		0.96
	Power Factor [208V / 230V]	%	79.0 / 80.0
Heating at 47°F ²	Maximum Capacity	BTU/H	14,000
	Rated Capacity	BTU/H	8,700
	Minimum Capacity	BTU/H	1,600
	Maximum Power Input	W	1,270
	Rated Power Input	W	545
	Power Factor [208V / 230V]	%	90.0 / 91.0
Heating at 17°F ³	Maximum Capacity	BTU/H	12,840
	Rated Capacity	BTU/H	5,900
	Maximum Power Input	W	1,400
	Rated Power Input	W	390
Heating at 5°F ⁴	Maximum Capacity	BTU/H	10,500
	Maximum Power Input	W	1,250
Heating at -5°F ⁶	Maximum Capacity	BTU/H	8,700
Heating at -13°F ⁷	Maximum Capacity	BTU/H	7,250
Efficiency	SEER		33.1
	EER ¹		19.05
	HSPF [I/V]		13.5
	COP at 47°F ²		4.68
	COP at 17°F at Maximum Capacity ³		2.69
	COP at 5°F at Maximum Capacity ⁴		2.26
	COP at -5°F at Maximum Capacity ⁶		2.26
	COP at -13°F at Maximum Capacity ⁷		1.93
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.65
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	137~167~221~304~381
	Airflow Rate at Cooling, Wet	CFM	117~143~190~261~328
	Airflow Rate at Heating, Dry	CFM	140~167~225~325~437
	Sound Pressure Level [Cooling]	dB[A]	20~23~29~36~40
	Sound Pressure Level [Heating]	dB[A]	20~24~29~39~42
	Drain Pipe Size	In. [mm]	5/8 [15.88]
	Coating on Heat Exchanger		Dual Barrier Coating
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	36-7/16 x 9-3/16 x 12 (+11/16) [925 x 234 x 305 (+17)]
	Package Dimensions	W x D x H: In. [mm]	39 x 12-1/4 x 15-1/2 [990 x 310 x 400]
	Unit Weight	Lbs. [kg]	29 [13.5]
	Package Weight	Lbs. [kg]	34 [15.4]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 73 WB / 67 DB, 57 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	80 DB / 70 DB

NOTES:

AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
⁶ Heating at -5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -5 DB, -6 WB
⁷ Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

SPECIFICATIONS: MSZ-FS06NA & MUZ-FS06NA

Outdoor Unit	MCA	A	10.0
	MOCP	A	15
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	55
	Airflow Rate [Cooling / Heating]	CFM	1141 / 1183
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating
	Sound Pressure Level, Cooling ¹	dB(A)	47
	Sound Pressure Level, Heating ²	dB(A)	49
	Compressor Type		Twin Rotary
	Compressor Model		SNB092FQAMT
	Compressor Rated Load Amps	A	9.2
	Compressor Locked Rotor Amps	A	7.4
	Compressor Oil [Type // Charge]	oz.	FV50S // 0.35
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions	W x D x H: In. [mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]
	Package Dimensions	W x D x H: In. [mm]	37 x 15 x 24-1/2 [940 x 380 x 630]
	Unit Weight	Lbs. [kg]	82 [37]
	Package Weight	Lbs. [kg]	89 [40]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 14 DB
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	-4 / 0
	Heating Air Temp [Maximum / Minimum]	°F	75 DB, 65 WB / -13 DB, -14 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
Refrigerant	Maximum Charge Quantity	Lbs, oz	2.0, 9.0
	Initial Charge Quantity	Ft. [m]	25.0 [7.5]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]
	Maximum Piping Length	Ft. [m]	65 [20]
	Maximum Height Difference	Ft. [m]	40 [12]
	Maximum Number of Bends		10

NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
⁵ Heating at -5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -5 DB, -6 WB
⁷ Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

INDOOR UNIT ACCESSORIES: MSZ-FS06NA

Control Interface	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Lockdown bracket for remote controller	RCMKP1CB
	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Remote Sensor	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Blue Diamond Alarm Extension Cable — 6.5 Ft.	C13-192
	Blue Diamond MultiTank — collection tank for use with multiple pumps	C21-014
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Drain Pan Level Sensor/Control	SS610E
	Fascia Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016
	Refco Condensate Pump (100-240 VAC)	GOBI-II
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
	Sauermann Condensate Pump	SI30-230
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2330FT-E
	Platinum Deodorizing Filter	MAC-3000FT-E
Lineset	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-15
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-30
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-50
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-65

NOTES:

†Requires MAC-334IF-E

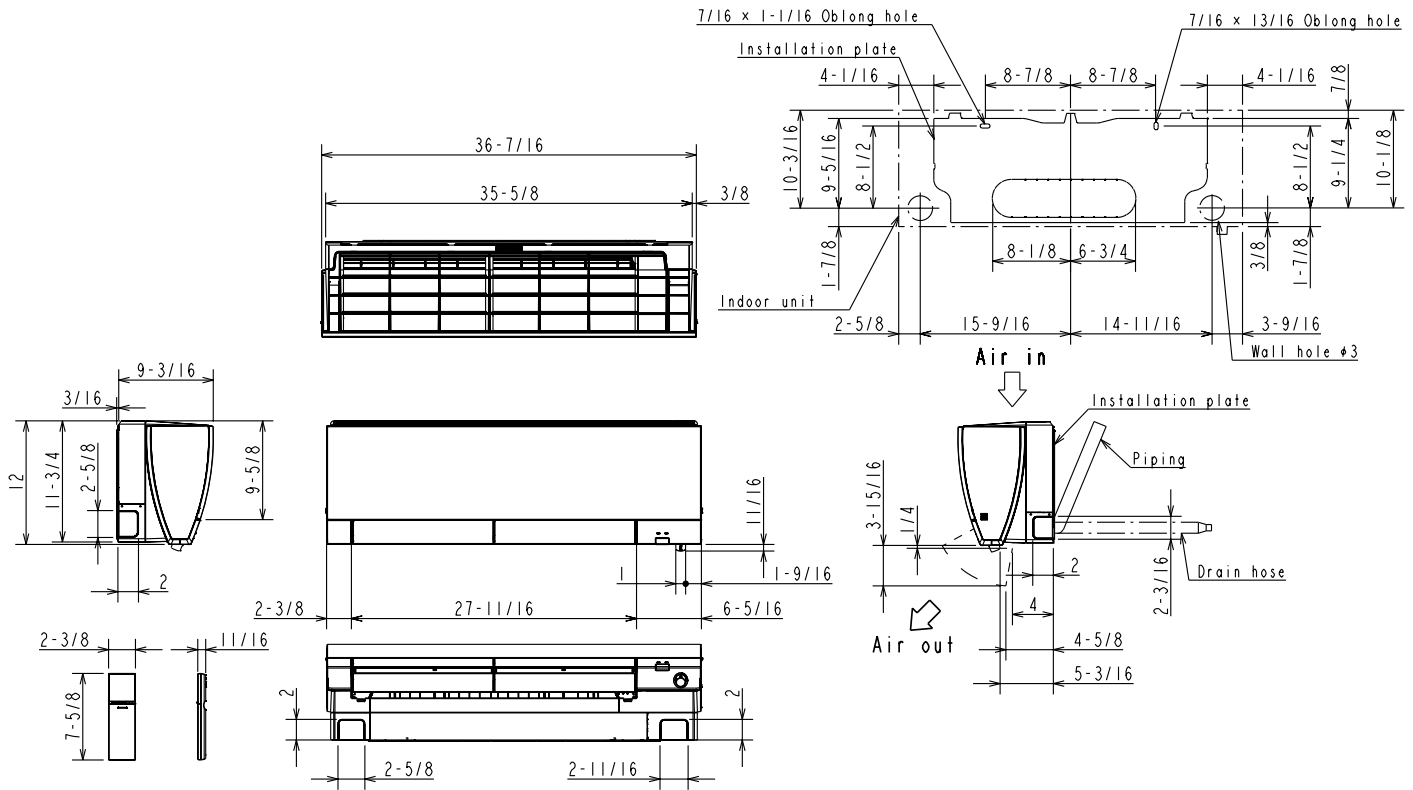
- M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount
Allows indoor units to connect to an MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller

OUTDOOR UNIT ACCESSORIES: MUZ-FS06NA

Air Outlet Guide	Air Outlet Guide	MAC-881SG
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Drain Socket	Drain Socket	MAC-871DS
Hail Guards	Hail Guard	HG-B4
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Optional Defrost Heater	Optional Defrost Heater	MAC-640BH-U
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M

INDOOR UNIT DIMENSIONS: MSZ-FS06NA

Unit: inch



(06/09/12 KBTU/H)

Piping	Insulation	1-7/16 O.D
	Liquid line	1/4 19-11/16 (Flared connection 1/4)
	Gas line	3/8 16-15/16 (Flared connection 3/8)
Drain hose	Insulation	1-1/8 Connected part 5/8 O.D

(15/18 KBTU/H)

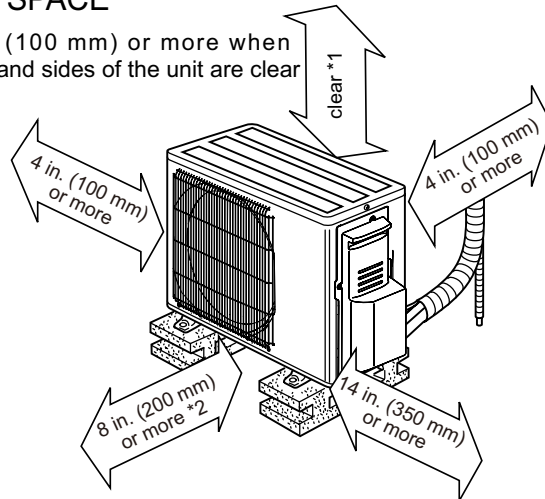
Piping	Insulation	1-7/16 O.D
	Liquid line	1/4 19-11/16 (Flared connection 1/4)
	Gas line	3/8 16-15/16 (Flared connection 1/2)
Drain hose	Insulation	1-1/8 Connected part 5/8 O.D

OUTDOOR UNIT DIMENSIONS: MUZ-FS06NA

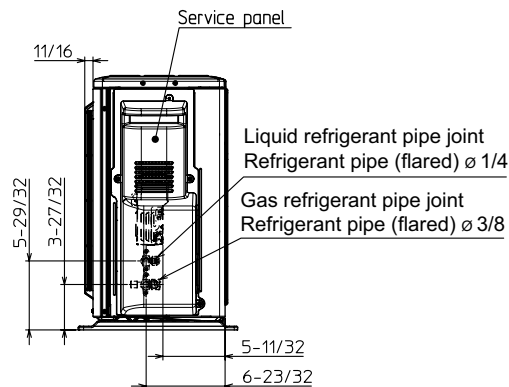
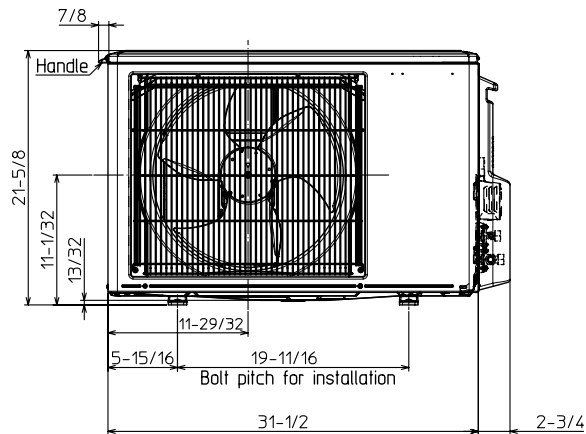
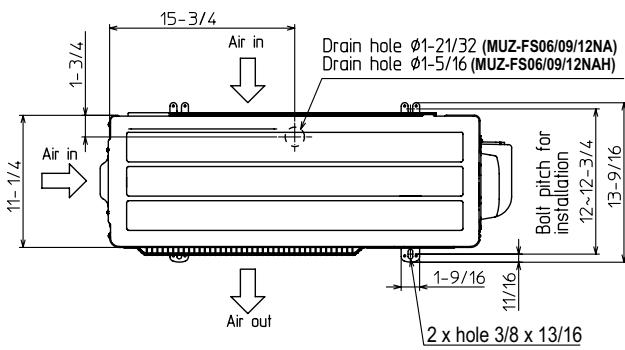
Unit: inch

REQUIRED SPACE

*1 4 in. (100 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# MSZ-FS06NA & MUZ-FS06NA - 202211



MSZ-FS09NA

9,000 BTU/H DELUXE WALL MOUNT



Job Name:

System Reference:

Date:



GENERAL FEATURES

- Slim wall-mounted indoor units provide zone comfort control
- Dual Barrier Coating applied to the heat exchanger, vanes and fan to prevent hydrophilic and hydrophobic dirt build-up
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 3D i-see Sensor® enables advance features:
 - Indirect or Direct Airflow for personalized comfort
 - Absence Detection for energy-saving mode
 - Double Vane features:
 - Separates airflow to deliver air across a large area
 - Simultaneously deliver to air separate sections of a room
 - Generates more comfortable natural airflow pattern
- Multiple control options available:
 - Back-lit screen handheld remote controller (provided with unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter
- Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- Quiet operation

Specifications			System
Unit Type			MSZ-FS09NA
Cooling Capacity ^{1, 3}		BTU/H	9,000
Heating Capacity ^{2, 3}		BTU/H	9,600
Electrical	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	V AC	187- 253V
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
Indoor Unit	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.65
	Fan Motor Output	W	40
	Airflow Rate at Cooling, Dry	CFM	137-167-221-304-381
	Airflow Rate at Cooling, Wet	CFM	117-143-190-261-328
	Airflow Rate at Heating, Dry	CFM	140-167-225-325-437
	Sound Pressure Level [Cooling]	dB[A]	20-23-29-36-40
	Sound Pressure Level [Heating]	dB[A]	20-24-29-39-42
	Drain Pipe Size	In. [mm]	5/8 [15.88]
	Coating on Heat Exchanger		Dual Barrier Coating
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	36-7/16 x 9-3/16 x 12 (+11/16) [925 x 234 x 305 (+17)]
	Package Dimensions	W x D x H: In. [mm]	39 x 12-1/4 x 15-1/2 [990 x 310 x 400]
	Unit Weight	Lbs. [kg]	29 [13.5]
	Package Weight	Lbs. [kg]	39 x 12-1/4 x 15-1/2 [990 x 310 x 400]
Refrigerant	Type		R410A
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	3/8 [6.35]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]

NOTES:

Conditions

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

³Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.:

INDOOR UNIT ACCESSORIES: MSZ-FS09NA

Control Interface	BACnet® and Modbus Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Lockdown bracket for remote controller	RCMKP1CB
	System Control Interface	MAC-334IF-E
	Thermostat Interface	PAC-US444CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Remote Sensor	Wired Remote Sensor	M21EAA307
	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X85-003
	Blue Diamond Alarm Extension Cable — 6.5 Ft.	C13-192
	Blue Diamond MultiTank — collection tank for use with multiple pumps	C21-014
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Drain Pan Level Sensor/Control	SS610E
	Fascia Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016
	Sauermann Condensate Pump	SI30-230
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2330FT-E
	Platinum Deodorizing Filter	MAC-3000FT-E
Lineset	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-15
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-30
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-50
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLS143812T-65

NOTES:

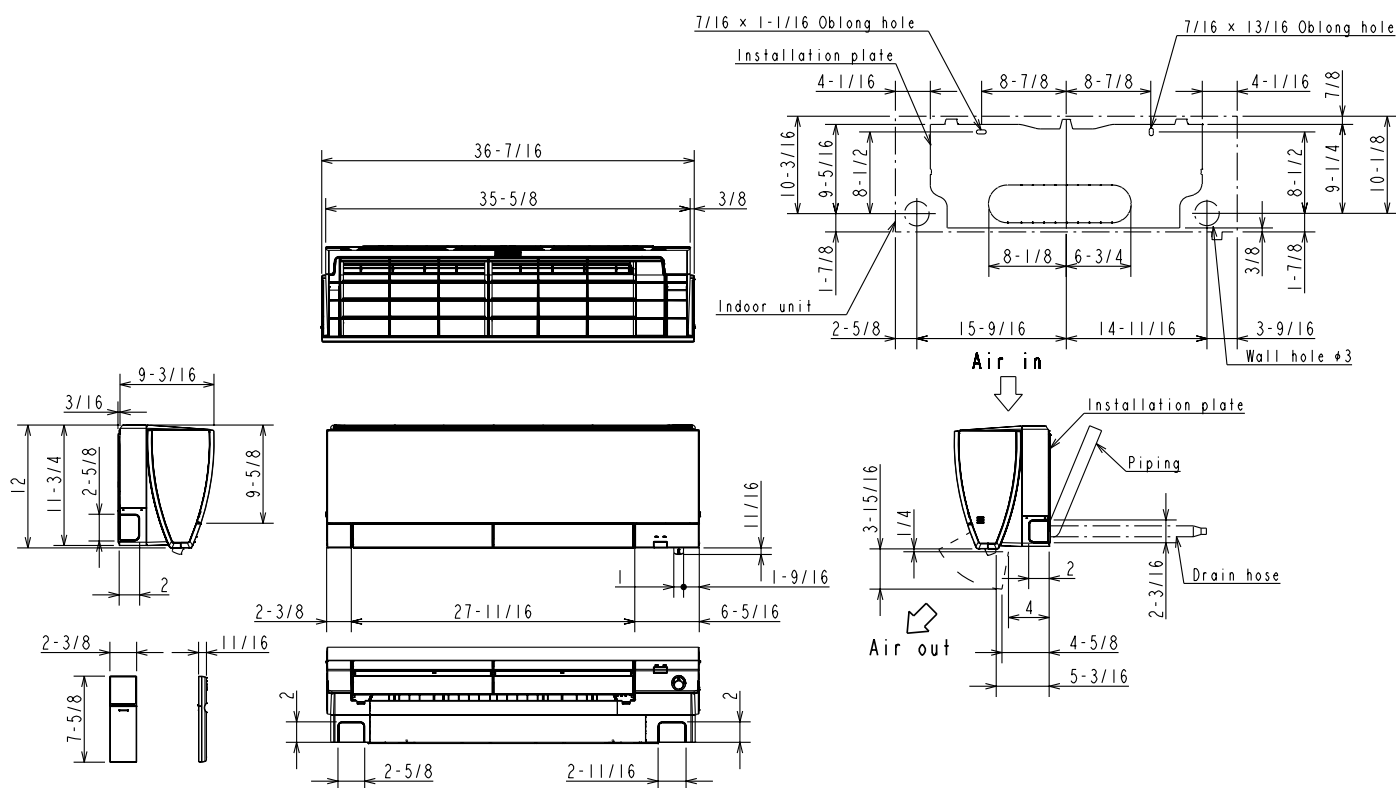
†Requires MAC-334IF-E

•Allows indoor units to connect to an MA Controller:

- Deluxe MA Remote Controller
- Simple MA Controller
- Touch MA Controller

INDOOR UNIT DIMENSIONS: MSZ-FS09NA

Unit: inch



(06/09/12 KBTU/H)

Piping	Insulation	1-7/16 O.D.
	Liquid line	1/4 19-11/16 (Flared connection 1/4)
	Gas line	3/8 16-15/16 (Flared connection 3/8)
Drain hose	Insulation	1-1/8 Connected part 5/8 O.D.

(15/18 KBTU/H)

Piping	Insulation	1-7/16 O.D.
	Liquid line	1/4 19-11/16 (Flared connection 1/4)
	Gas line	3/8 16-15/16 (Flared connection 1/2)
Drain hose	Insulation	1-1/8 Connected part 5/8 O.D.

1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# MSZ-FS09NA-U1 - 202102



Specifications are subject to change without notice.

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M-SERIES

SUBMITTAL DATA: SEZ-KD09NA4 & SUZ-KA09NAHZ 9,000 BTU/H HORIZONTAL-DUCTED HEAT PUMP SYSTEMS



Job Name:

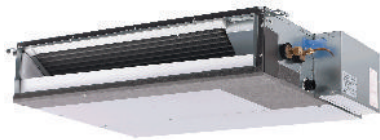
System Reference:

Date:

APPLIES TO INDOOR UNIT:

- ☐ SEZ-KD09NA4.TH
- ☐ SEZ-KD09NAR1.TH
- ☐ SEZ-KD09NA4R1.TH

Outdoor Unit:
SUZ-KA09NAHZ



INDOOR UNIT FEATURES

- Concealed horizontal-ducted unit for applications with short duct runs
- Quiet operation
- Ultra-thin body: 7-7/8" high
- Built-in condensate lift mechanism (lifts to 21-21/32")
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Static capability up to 0.20 in. WG

OUTDOOR UNIT FEATURES

- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- H2i® hyper heat performance offers 100% heating capacity at 5°F
- Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- Quiet operation
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
- Built-in base pan heater
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology

SPECIFICATIONS: SEZ-KD09NA4 & SUZ-KA09NAHZ

Cooling at 95°F ¹	Maximum Capacity	BTU/H	9,000
	Rated Capacity	BTU/H	9,000
	Minimum Capacity	BTU/H	4,500
	Maximum Power Input	W	690
	Rated Power Input	W	690
	Moisture Removal	Pints/h	1.70
	Sensible Heat Factor		0.79
	Power Factor (208/230V)	%	89
Heating at 47°F ²	Maximum Capacity	BTU/H	13,300
	Rated Capacity	BTU/H	12,500
	Minimum Capacity	BTU/H	8,100
	Maximum Power Input	W	1,300
	Rated Power Input	W	1,300
	Power Factor	%	95
Heating at 17°F ³	Maximum Capacity	BTU/H	12,500
	Rated Capacity	BTU/H	8,700
	Maximum Power Input	W	1,670
	Rated Power Input	W	1,120
Heating at 5°F ⁴	Maximum Capacity	BTU/H	12,500
	Maximum Power Input	W	2,000
Efficiency	SEER		17.30
	EER ¹		13.00
	HSPF (IV)		9.80
	COP at 47° F ²		2.80
	COP at 17°F in Maximum Capacity ³		2.20
	COP at 5°F in Maximum Capacity ⁴		1.59
	ENERGY STAR® certified units (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)		Yes
Electrical	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	15
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	0.74
	Fan Motor Full Load Amperage	A	0.59
	Fan Motor Output	W	96
	Airflow Rate, Dry	CFM	317-247-194
	Airflow Rate, Wet	CFM	285-222-174
	Sound Pressure Level (Cooling)	dB(A)	30-26-23
	Sound Pressure Level (Heating)	dB(A)	30-26-23
	External Static Pressure	in.WG	0.02-0.06-0.14-0.2
	Drain Pipe Size	In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Maximum Distance	In. (mm)	21-21/32 (550)
	Heat Exchanger Type		Plate fin coil
	External Finish Color		Galvanized
	Unit Dimensions	W: In. (mm)	31 1/8 (790)
		D: In. (mm)	27-9/16 (700)
		H: In. (mm)	7-7/8 (200)
	Package Dimensions	W: In. (mm)	39-3/8 (1,000)

SPECIFICATIONS: SEZ-KD09NA4 & SUZ-KA09NAHZ

		D: In. (mm)	35-7/16 (900)
		H: In. (mm)	14-3/16 (360)
	Unit Weight	Lbs. (kg)	42 (19)
	Package Weight	Lbs. (kg)	64 (29)
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)*	°F	90 DB / 72 WB // 68 DB / 61 WB
	Heating Intake Air Temp (Maximum / Minimum)	°F	77 DB // 59 DB
Outdoor Unit	MCA	A	14.0
	MOCP	A	24.0
	Fan Motor Full Load Amperage	A	0.7
	Fan Motor Output	W	77.0
	Airflow Rate	CFM	1,691 / 1,691
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate Fin Coil
	Blue Fin Coating on Heat Exchanger		Yes
	Sound Pressure Level (Cooling) ¹	dB(A)	54
	Sound Pressure Level, Heating ²	dB(A)	55
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model		SNB130FHBMT
	Compressor Rated Load Amps	A	13
	Compressor Locked Rotor Amps	A	10
	Compressor Oil Type // Charge	oz.	FV50S // 22
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Yes
	Unit Dimensions	W: In. (mm)	38-9/16 (840)
		D: In. (mm)	13 (330)
		H: In. (mm)	34-5/8 (880)
	Package Dimensions	W: In. (mm)	38-9/16 (980)
		D: In. (mm)	16-9/16 (420)
		H: In. (mm)	39 (990)
	Unit Weight	Lbs. (kg)	129 (58.5)
	Package Weight	Lbs. (kg)	148 (67)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*	°F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	-1 / 3
	Heating Air Temp (Maximum / Minimum)	°F	75 / -13
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
Refrigerant	Type		R410A
	Charge	Lbs, oz	3, 9
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
	Liquid Pipe Size O.D. (Flared)	In.(mm)	1/4 (6.35)
	Maximum Piping Length	Ft. (m)	65
	Maximum Height Difference	Ft. (m)	40
	Maximum Number of Bends		10

Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

ACCESSORIES: SEZ-KD09NA4

Filter Box with MERV 8 Filters	□ FBL1-1
Wireless Signal Receiver	□ PAR-SA9CA-E
Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Remote Controller	□ PAR-FL32MA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN002-FM-1
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
Thermostat Interface	□ PAC-US445CN-1
kumo station® for kumo cloud®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Wire for Remote on/off with CN32 connector	□ PAC-715AD
Connector and wire for Operation status/error using CN51	□ PAC-725AD
Connector cable for remote display	□ PAC-SA88HA-EP
Remote Operation Adapter ¹	□ PAC-SF40RM-E
Bottom Return Plate (Converts low-profile ducted indoor unit from rear return to bottom return)	□ BRP-1
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
Blue Diamond Alarm Extension Cable — 6.5 Ft.	□ C13-192
Blue Diamond MultiTank — collection tank for use with multiple pumps	□ C21-014
Blue Diamond Rubber Foot Pads	□ F10-010
Mini Condensate Pump — 230 volt application	□ SI30-230
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	□ COMBI
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W

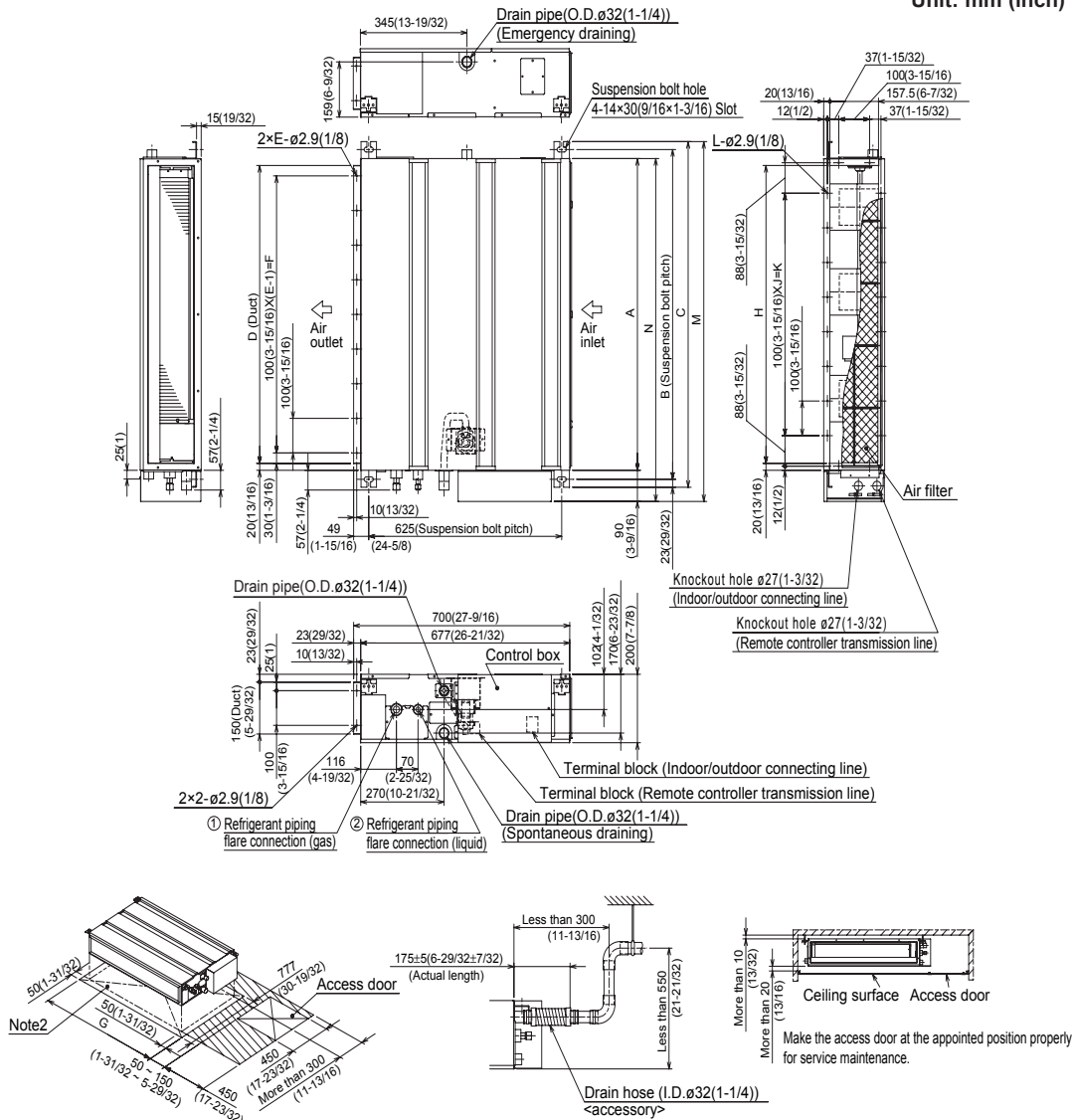
¹ Unable to use with wireless remote controller

ACCESSORIES: SUZ-KA09NAHZ

Air Outlet Guide	□ MAC-881SG
Optional Defrost Heater	□ MAC-640BH-U
Hail Guard	□ HG-A7
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1201M
Outdoor Unit Stand — 18" High	□ QSMS1801M
Outdoor Unit Stand — 24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket— Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	□ QSWBSS
15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-65

DIMENSIONS: SEZ-KD09NA4

Unit: mm (inch)



Required space for service and maintenance

mm (in.)

Sizes	A	B	C	D	E	F	G	H	J	K	L	M	N	① Gas pipe	② Liquid pipe	
09 KBTU/H	700 (27-9/16)	752 (29-5/8)	798 (31-7/16)	660 (26)	7	600 (23-5/8)	800 (31-1/2)	660 (26)	5	500 (19-11/16)	16	839 (33-1/16)	790 (31-1/8)	ø9.52(3/8)	ø6.35(1/4)	
12 KBTU/H	900 (35-7/16)	952 (37-1/2)	998 (39-5/16)	860 (33-7/8)	9	800 (31-1/2)	1000 (39-3/8)	860 (33-7/8)	7	700 (27-9/16)	20	1039 (40-29/32)	990 (39)			ø12.7(1/2)
15 KBTU/H																
18 KBTU/H	1100 (43-5/16)	1152 (45-3/8)	1198 (47-3/16)	1060 (41-3/4)	11	1000 (39-3/8)	1200 (47-1/4)	1060 (41-3/4)	9	900 (35-7/16)	24	1239 (48-25/32)	1190 (46-7/8)			

Note1. Use M10 screw for the suspension bolt (field supply).

2. Keep the service space for the maintenance at the bottom.

3. This chart indicates for size 15 kBTu/h model, which has 3 fans.

Sizes 09,12 kBTu/h models have 2 fans.

Sizes 08 kBTu/h model has 4 fans.

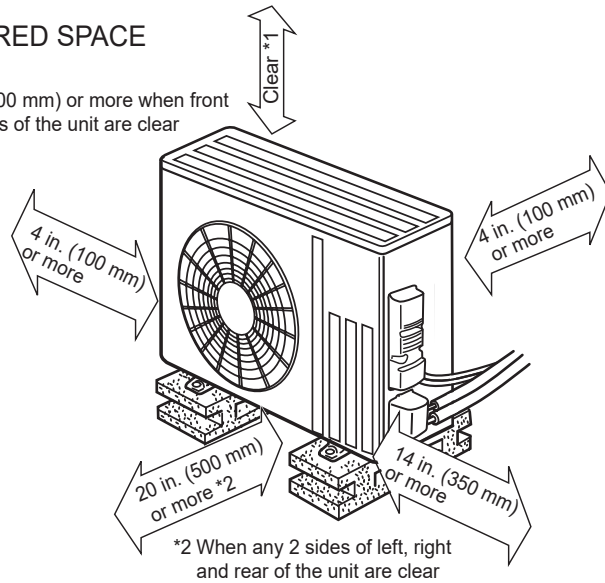
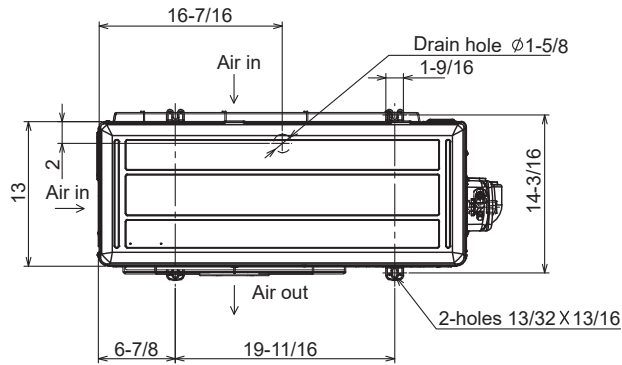
4. When an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

DIMENSIONS: SUZ-KA09NAHZ

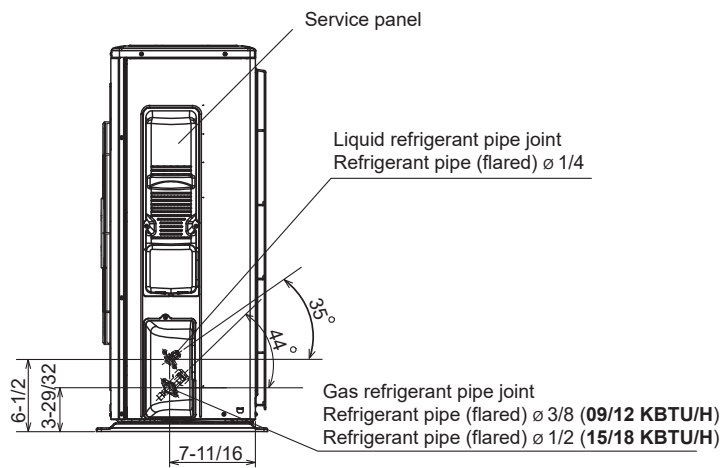
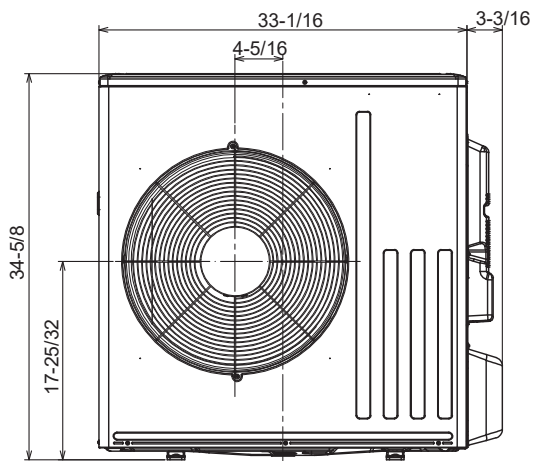
Unit: inch

REQUIRED SPACE

*1 20 in. (500 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



1340 Satellite Boulevard, Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# SEZ-KD09NA4 / SUZ-KA09NAHZ - 202209



Specifications are subject to change without notice.

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Heating

Cooling

Fresh Air

Clean Air



ComfoAir Q 350 / ComfoAir Q 450



ComfoAir Q 600

5 Maintenance

Part of system	Limit	Responsible	Procedure
Filters	6 months	User	Replace the filters
Valves	6 months	User	Clean the valves
Grilles	6 months	User	Clean the grilles
Operating device	6 months	User	Clean the operating device
Condensation drain	6 months	User	Fill the condensation drain
System inspection and cleaning	4 years	Installer or service engineer	-

Zehnder recommends a maintenance contract with a specialist ventilation maintenance company. Some installers provide a maintenance contract in which the user maintenance can be integrated. Contact the supplier of the unit for a list of registered installers nearby.

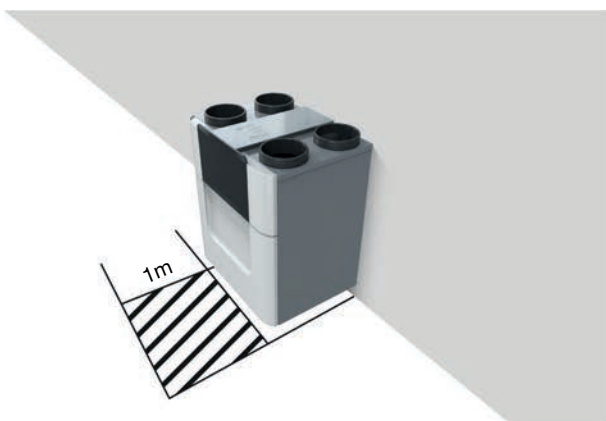
The warranty becomes invalid if:

- Parts are used that have not been supplied by the manufacturer;
- The unit is used without filters.

⚠ Do not disconnect the power to the unit, unless instructed otherwise in the manual. This can lead to a build-up of moisture and result in problems with mould.

⚠ Perform the maintenance tasks within the suggested time periods. Failure to do this can result in the ventilation systems performance to be compromised.

👉 Keep a clearance in front of the unit of at least 1m. This room is needed to carry out the maintenance activities.



5.1 Fill the condensation drain

The condensation drain is connected to the domestic waste-water system. To prevent sewer smells from entering your home, the water seal of the domestic waste-water system must always contain water. You can achieve this by pouring a cup of water into the water seal.

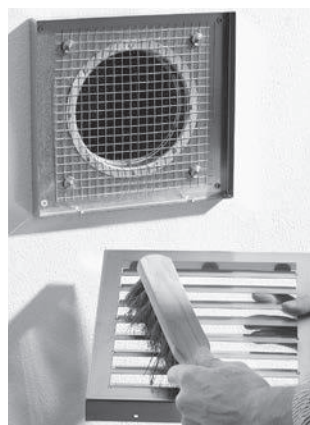
5.2 Clean the operating device

Activate the child lock on the display, to prevent any changes to the settings caused by accidentally pressing the buttons. Clean any operating device present in your home at least every six months. Use a dry duster or vacuum cleaner to remove the dust. Do not use water or any other liquid.

5.3 Clean the grilles

⚠ Clean any grille present in and outside your home at least every six months.

1. Keep hold of the grille on its outer edge and pull it completely out of the wall or ceiling (if not screwed down).
2. Clean the grille with a soft brush or vacuum cleaner.



3. Clean the filter behind the grille (if present) with a soft brush or vacuum cleaner.
 - Do not remove the foam behind the grille (if present) as it would negatively influence the system performance.
4. Place the grille back in the wall or ceiling.

DECKING

Key Details:

- Black Locust, scientific name Robinia Pseudoacacia
- Sizes stocked:
 - 2 x 6
 - 2 x 4
 - 5/4 x 6
 - 5/4 x 4
 - 1 x 6
 - 1 x 5
 - 1 x 4
- ASTM E84-16 class A fire rated
- Custom sizes available



Specifications:

Wood Common name	Black Locust
Wood Scientific name	Robinia Pseudoacacia
Color	Initial color is blonde to light red/light brown
Grain	Tight grain
Density @ 12% moisture	4.0 to 4.5 pounds per board foot
Durability	Highest rating from USDA (Exceptionally high decay resistance)
Fire rating	Class A (ASTM E84-16 tested)
Hardness (Janka)	1,700
Resistance to decay and insect attack	Resistant to attack by decay fungi and termites.
Modulus of rupture	19,400 lbf/in ²
Modulus of elasticity	2,050,000 lbf/in ²
Maximum crushing strength	10,200 lbf/in ²
Wood movement properties	Radial: 4.6%, Tangential: 7.2%, Volumetric: 10.2%, T/R Ratio: 1.6

sales@robidecking.com / 336.365.2850

See all of our products at robidecking.com

STAIRN TREADS



Vermont Plank Flooring

Finish Warranty

Vermont Plank Flooring warrants that our product is free from defects in finishing and we will replace any plank that shows a finishing defect so long as it is returned to us prior to installation. Planks with manufacturing defects or character that is deemed undesirable by the end user should not be installed. All of the products we pre-finish are from products manufactured from natural materials and contain variations in color, grain patterns, and textures. This warranty does not include variances in color, knots, or kiln drying defects in the installed product or variances between showroom samples and the installed floor.

There are no warranties which extend beyond the description on the face hereof. These warranties are given in lieu of all other warranties. There is no warranty of merchantability or fitness for any particular purpose except the express warranties on the face of this document. Vermont Plank Flooring excludes all warranties implied by law or implied by fact, which are not expressly set forth on the face of this document. The pre-finisher excludes and will not compensate for any consequential or incidental damages. This warranty is valid only to the original purchasers of the flooring and is not transferable. This warranty will void any restitution or actions on the pre-finisher's behalf if the client commits to a claim without the pre-finisher or their customer inspecting and validating the job-site, installation and/or quality product prior to the decision.

Finish Warranty

Residential: Vermont Plank Flooring offers a 25-Year Finish Warranty on all pre-finished solid and engineered products as long as the flooring installation and care guidelines are adhered to. This warranty is given solely to the original purchaser. This Finish Warranty applies only to residential applications and installations with regular wear and when proper care and maintenance is followed.

Commercial: Vermont Plank Flooring offers a 5-Year Finish Warranty on all formulated and stated commercial-grade pre-finished solid and engineered product finishes as long as the flooring installation and care guidelines are adhered to. This warranty is given solely to the original purchaser. This Finish Warranty applies only to commercial applications and installations with regular wear and when proper care and maintenance is followed.

Exclusions

All wood flooring will undergo natural color changes due to the effects of sunlight and/or ultraviolet light and these changes are not covered by our warranty. Area rugs and other furnishings should be moved occasionally as they block sunlight and may give the appearance of discoloration under the rug. This is not a product defect.

Additional exclusions: indentations, scratches, or damages caused by misuse, negligence, accidents, fire, erosion, insects, pets, shoes, pebbles, sand, other abrasives, lack of proper maintenance, insufficient protection of furniture, and misuse or improper alterations of the original manufactured product. Damage due to water and/or moisture, including but not limited to damage resulting from broken or leaking pipes, wet mopping, weather conditions or natural disasters, is excluded from warranties made by Vermont Plank Flooring.

INSTALLATION OF ANY FLOORING CONSTITUTES ACCEPTANCE OF ITS GRADE, MILLING, AND FINISH.

As Vermont Plank Flooring has no control over installation methods or site conditions, we cannot warranty any installation or site-related issue.

Vermont Plank Flooring assumes no liability for incidental or consequential damages. This writing is the complete and exclusive statement of the warranty, and is in lieu of all other expressed and/or statutory warranties. This warranty gives you specific legal rights and you may have other rights as they vary from state to state. Any damage caused to the flooring as a result of the following will void this warranty.

IMPROPER INSTALLATION - Proper N.W.F.A. guidelines must be followed including subfloor preparation.

STORAGE/JOB-SITE CONDITIONS - Product must be stored in a dry and heated environment, no exposure to any moisture shall be permitted. Do not store in garages, over concrete, or below grade.

WATER DAMAGE - Warranty does not include damage caused by flooding, faulty plumbing, moisture penetration, overflowing sinks, leaking appliances or any like occurrences.

Proper handling, storage, and installation are the Installer/Dealer's responsibility. Installer responsibility includes final inspection of flooring prior to installation. Our warranty does not cover flooring with visible defects once it is installed. Installer is also responsible for making certain the flooring is installed over an acceptable, suitable subfloor.

Signed Control Sample

In order to begin the finishing process for your pre-finished Vermont Plank Floor, we first must receive your signed Control Sample indicating your approval of color and finish. This Control Sample will serve as our reference point for verification before, during, and after the finishing process. Variations in color, grain structure, and character may be expected from board to board. By signing the Control Sample, you agree that your floor will be finished with the same formula to match the color and sheen of your Approved Control Sample.

Care & Maintenance

Hardwood flooring, unlike other types of floor coverings, can be kept looking new, regardless of wear, with a minimum amount of effort. To protect against damage, just follow some basic, sensible guidelines. If your floor happens to get damaged, don't panic. One of the benefits of wood flooring is that because it is a natural flooring material, it can be repaired and/or refinished to look just like new. Here are some tips for its longevity:

- To prevent excess dirt and grit from coming in contact with your floors, use entry mats or rugs at all exterior doors. Throw rugs are also recommended on the inside of those doors. High traffic or potential spill areas in kitchens should also employ this tactic.
- Many wood species are photosensitive to direct or indirect U.V. light. Over time your floor may show signs of a slight change in appearance; move area rugs occasionally and shade or curtain large exposed windows to minimize this effect.
- Please use felt floor protectors wherever possible; this will allow your furniture to be moved while minimizing the opportunity for surface scratching.

- Clean or replace your protectors often as dirt or grit can be embedded in them. Ball-type casters are not recommended as they may dent your floor. Avoid any floor protectors that are plastic.
- Be aware of marking soled shoes and keep high-heeled shoes in good repair. Marks from marking soled shoes can be removed by using mineral spirits and a soft cloth or towel.
- We recommend purchasing cleaning products designed specifically for wood floors that are not acetone or solvent-based. These can be purchased through your flooring installer or directly from your flooring distributor. Using a vinegar and water dilution is not recommended.
- Never use any kind of over-the-counter oil, oil-soap, or solvent-based products to clean or maintain your floor. They will, with repeated use, erode the protective finish and dull the luster on your floor.
- Floors that have been damaged from years of wear and tear or neglect can be restored to their original beauty by sanding, staining, and refinishing. For best results, we recommend this be done by a professional wood flooring refinisher.

Vermont Plank Flooring

112 Hardwood Way
Brattleboro, VT 05301

866-326-2373
info@vtpf.com

PORCH POSTS

Key Details:

- Black Locust, scientific name Robinia Pseudoacacia
- Sizes stocked:
 - 4 x 4 Nominal (actual 3.5" x 3.5")
 - 6 x 6 Nominal (actual 5.5" x 5.5")
 - 8 x 8 Nominal (actual 7.25" x 7.25")
- 4 x 4 Rough
- 6 x 6 Rough
- 8 x 8 Rough
- 10 x 10 Rough
- 12 x 12 Rough (limited quantity)
- ASTM E84-16 class A fire rated
- Custom sizes available



Specifications:

Wood Common name	Black Locust
Wood Scientific name	Robinia Pseudoacacia
Color	Initial color is blonde to light red/light brown
Grain	Tight grain
Density @ 20% moisture	5.0 to 5.5 pounds per board foot
Durability	Highest rating from USDA (Exceptionally high decay resistance)
Fire rating	Class A (ASTM E84-16 tested)
Hardness (Janka)	1,700
Resistance to decay and insect attack	Resistant to attack by decay fungi and termites.
Modulus of rupture	19,400 lbf/in ²
Modulus of elasticity	2,050,000 lbf/in ²
Maximum crushing strength	10,200 lbf/in ²
Wood movement properties	Radial: 4.6%, Tangential: 7.2%, Volumetric: 10.2%, T/R Ratio: 1.6

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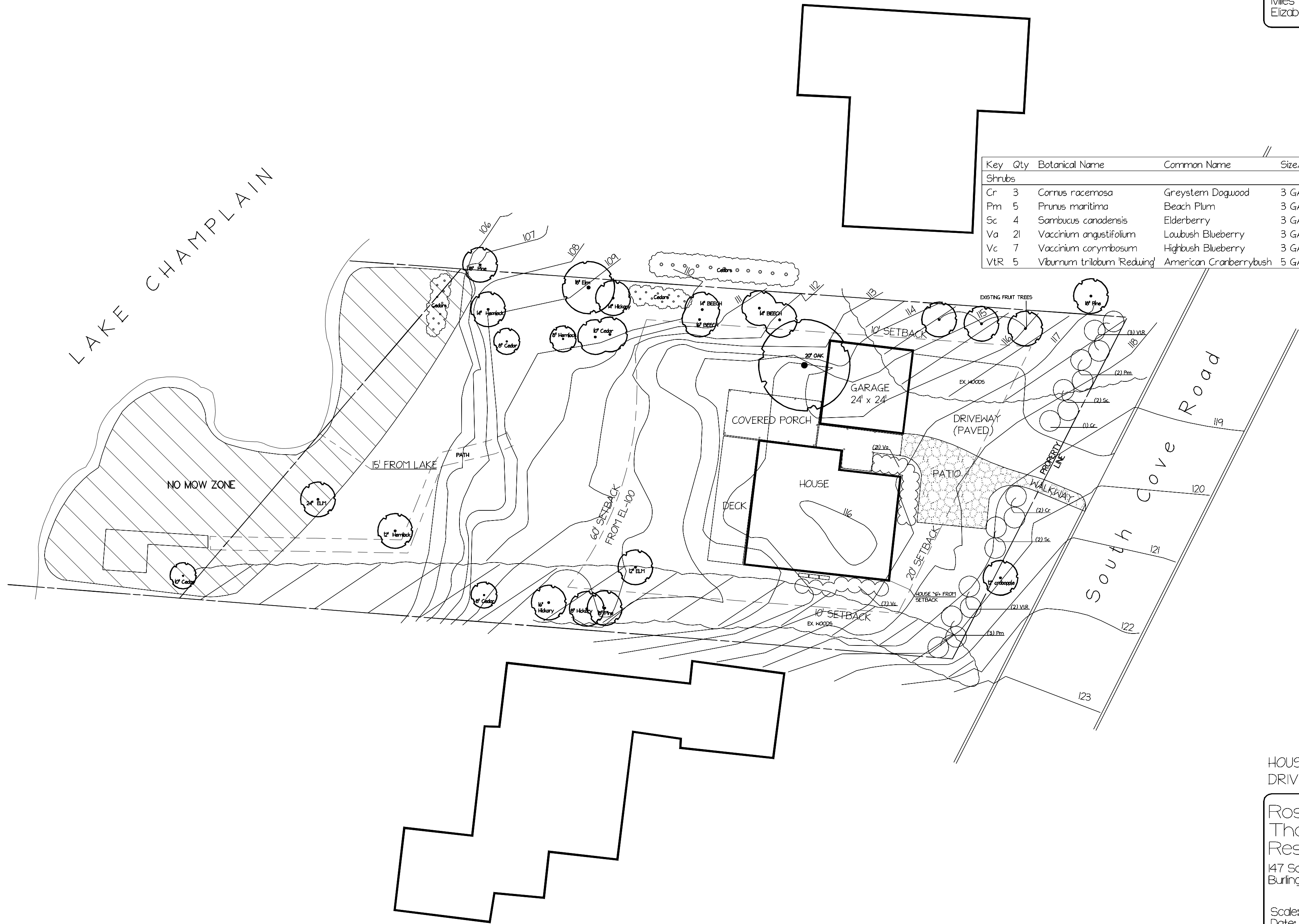




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Charlie Proutt ASLA
Miles Weston
Elizabeth Proutt



Key	Qty	Botanical Name	Common Name	Size/Condition	Remarks
Shrubs					
Cr	3	Cornus racemosa	Greystem Dogwood	3 GALLON	
Pm	5	Prunus maritima	Beach Plum	3 GALLON	
Sc	4	Sambucus canadensis	Elderberry	3 GALLON	
Va	21	Vaccinium angustifolium	Lowbush Blueberry	3 GALLON	
Vc	7	Vaccinium corymbosum	Highbush Blueberry	3 GALLON	
VtR	5	Viburnum trilobum 'Redwing'	American Cranberrybush	5 GALLON	

HOUSE + GARAGE +
DRIVEWAY PROPOSAL

Rosenfeld +
Thornburgh
Residence

147 South Cove Road
Burlington VT



Scale: 1"=20'
Date: 08.20.2025
Revisions: 08.28.2025

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