Application Materials for Certificate of Appropriateness

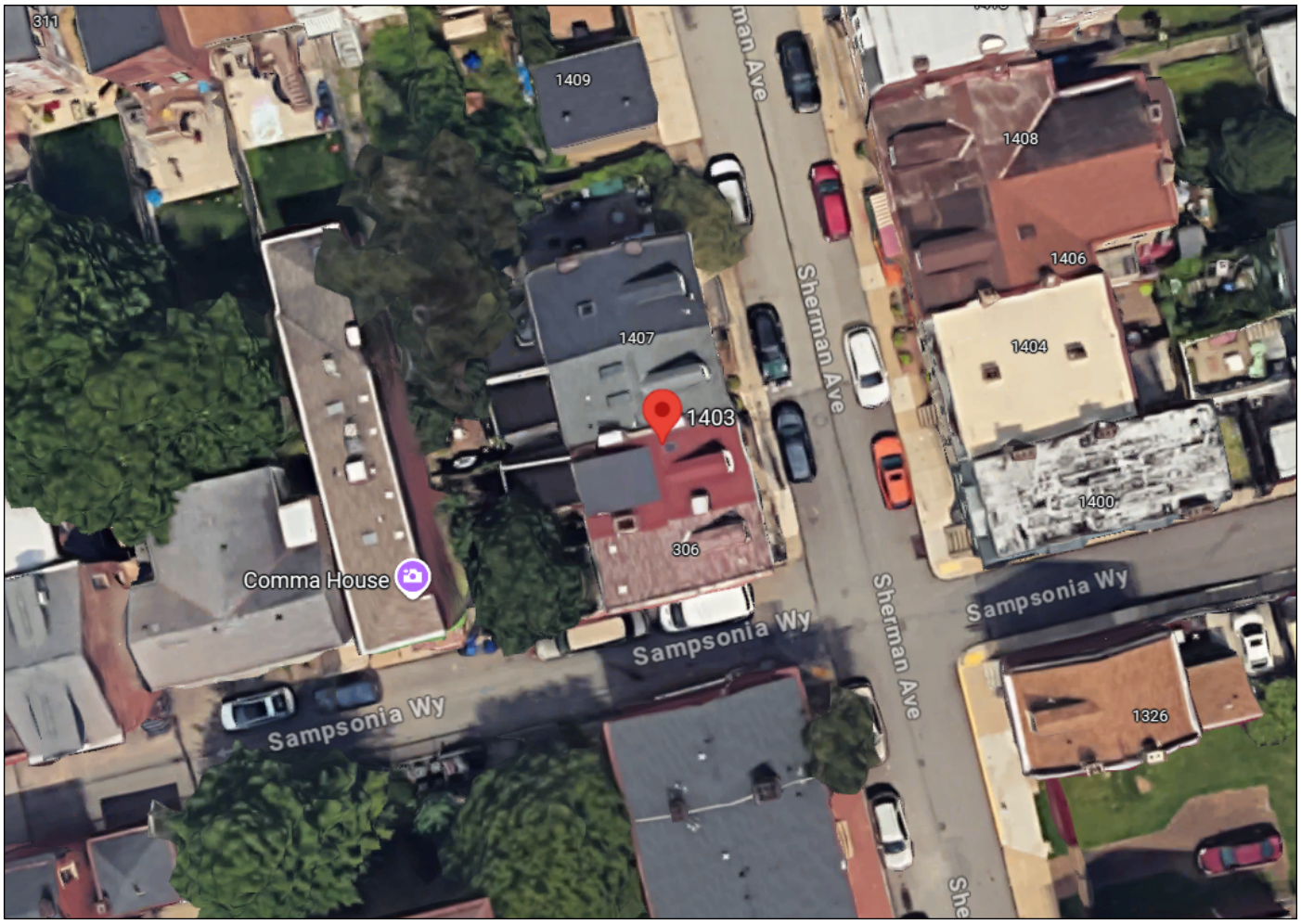
Property Address: 1403 Sherman Avenue, Pittsburgh, PA 15212
Owner: Mark Roark, Matthew Lecornu

Historic District: Mexican War Streets Expansion Historic District

Project Summary:

The project consists of demolition of an existing 1-story wood frame addition and two wood decks at the rear of the existing 2-1/2 story rowhouse, and construction of a new 14' wide x 14'-2-1/2" deep, 2-story rear addition with a rooftop deck. The existing rear rooftop dormer is to be altered, including reconstructing the low-slope shed roof, replacing two windows with a dual in-swing patio door, and replacing the exterior siding.

All proposed work is on the rear of the existing row-house, affecting the non-contributing secondary rear facade, which is partially visible only from Sampsonia Way.



Site Map - Satelite View

1403 Sherman - Rear Addition & Renov	DATE # 3/2/2026	PROJECT # HD2537

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

A. Design Narrative

The project consists of:

1. Demolition of an existing 11' x 14'-2.5", 1-story rear addition with a 5'-0" x 14'-10" first floor wood side deck, and a 2'-0" x 5'-0" first floor wood rear deck. The existing rear addition is a 1-story, wood-framed structure with a low-slope membrane shed roof, clad with painted wood T1-11 exterior plywood siding and painted 1x wood trimwork. The existing decks are unpainted/unstained, weathered pressure-treated wood.

2. Construction of a new 14'-0" x 14'-2.5", 2-story rear addition for a new first floor kitchen, second floor bedroom, and a third floor level open rooftop deck. The new addition is clad with cementitous plank horizontal lap siding, 6" exposure, painted grey, and 1x4 cement board corner trim and window casing.

   The proposed new windows are Marvin Signature Ultimate Series G2 double-hung units, wood interior with extruded aluminum exterior profile and with simulated divided lites and spacer bar between the glass panels. Exterior color is black.

   The proposed new patio doors are Marvin Signature Ultimate Series, Inswing 3" stiles 2-panel (leafs) doors, with single panel transom, wood interior with exterior extruded aluminum profile, and with simulated divided lites with spacer bar between the glass panels. Exterior color is black.

3. Alterations to the existing third floor level rear dormer, include: reconstruction of the existing low-slope shed roof with new framing at a lower slope in the same footprint; replacement of the existing rear windows with a new patio door to the new roof deck; and replacement of the existing exterior asphalt shingle siding with new painted cementitious plank horizontal lap siding, 6" exposure, and painted 1x4 cement board trimwork.

Visibility to the proposed work is fully obstructed from Sherman Avenue:
The existing conditions and the proposed new work is not visible from the primary street. 1403 Sherman Avenue is a 2-story, brick rowhouse among a row of similar abutting 2-story row structures on both sides. No views to the rear of the houses are possble from Sherman Avenue.

Visibility to the proposed work is partially obstructed from Sampsonia Way:
The existing building and street-facing privacy fence at the neighboring property of 1401 Sherman Ave, partially obstruct visibility to the rear of the project property along Sampsonia Way. Portions of the rear second floor level and third floor dormer are visible from Sampsonia Way.

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

B1. Photographs

1400 Block of Sherman Avenue
North-West View

1400 Block of Sherman Avenue
South-West View

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

B2. Photographs

View along Samponia Way
North-East View - October 2025

View along Sampsonia Way
North-East View - March 2026

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

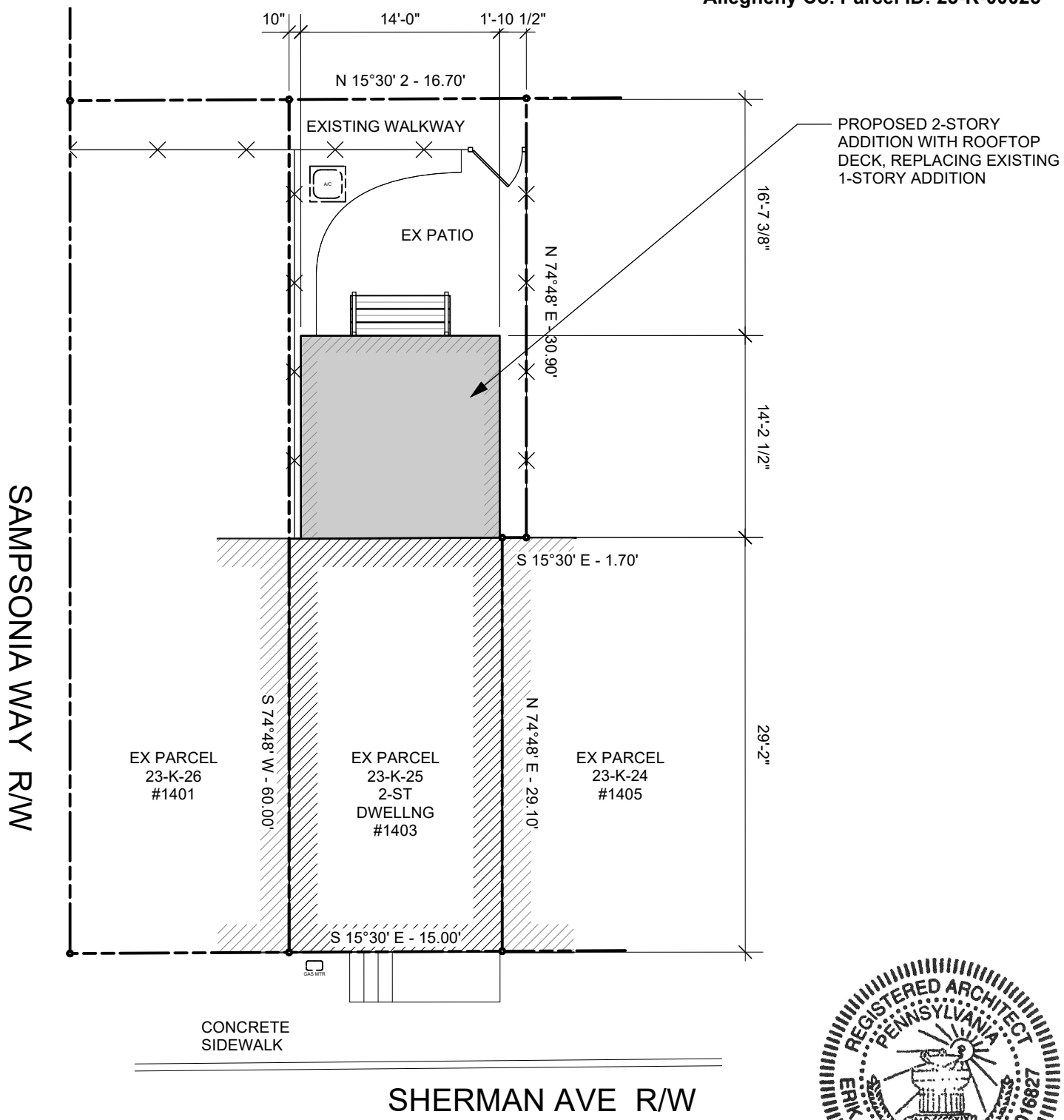
B3. Photographs

1403 Sherman Avenue -
Existing Front Facade
- View from Sherman Avenue

1403 Sherman Avenue
Existing Rear Facade
- View from Rear Yard

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

PROJECT LOCATION:
1403 Sherman Avenue
Pittsburgh, PA 15212
Allegheny Co. Parcel ID: 23-K-00025



1 SITE PLAN
Scale: 1" = 10'-0"

0 5 10 15 20 ft

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

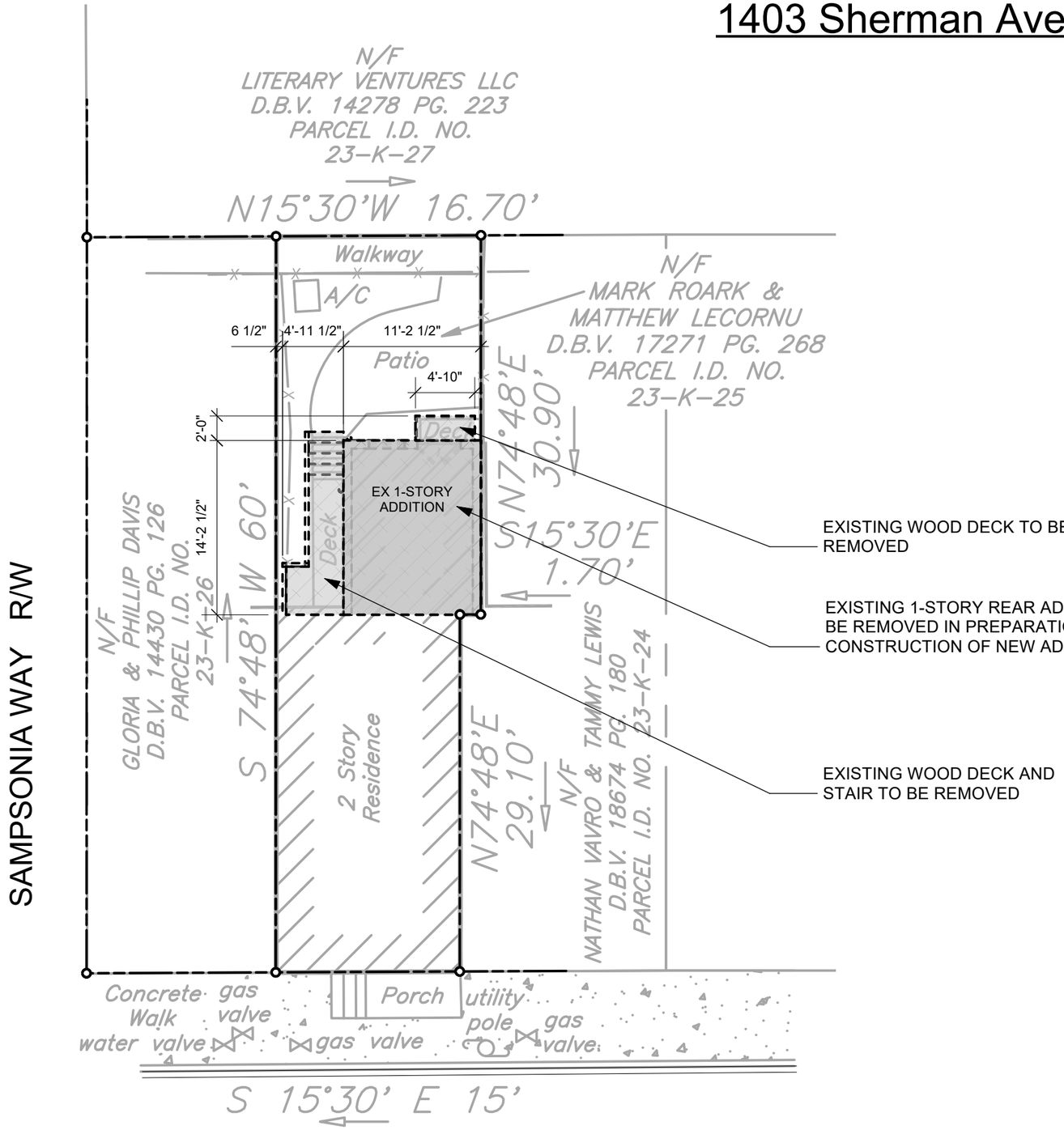
SITE PLAN BASED ON SURVEY DRAWNG #25-605, PREPARED BYARPENTEUR PROFESSIONAL SURVEYING SERVICES, DATED 11.03.2025, AND ALLEGHENY COUNTY RECORDER OF DEEDS MAP

PA 1-CALL NOTIFICATION REQUIRED PRIOR TO START OF BELOW-GRADE CONSTRUCTION ACTIVITIES

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # PLT1
		SCALE 1:120	
DWG	PLOT PLAN	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

1403 Sherman Avenue - Existing Rear Addition Demolition Plan



1 DEMOLITION SITE PLAN
Scale: 1" = 10'-0"

0 10 25 ft

SITE PLAN BASED ON SURVEY DRAWNG #25-605, PREPARED BYARPENTEUR PROFESSIONAL SURVEYING SERVICES, DATED 11.03.2025, AND ALLEGHENY COUNTY RECORDER OF DEEDS MAP

PA 1-CALL NOTIFICATION REQUIRED PRIOR TO START OF BELOW-GRADE CONSTRUCTION ACTIVITIES

PROJECT LOCATION:
1403 Sherman Ave
Pittsburgh, PA 15212
Allegheny County, Parcel ID: 23-K-00025

City of Pittsburgh, PA Zoning Ordinance:
ZONING DISTRICT:
R1A-VH Two-Unit Residential - High Density

PROJECT DESCRIPTION:
The project consists of demolition of an existing 1-story wood frame addition and two wood decks at the rear of the existing 2-1/2 story rowhouse, and construction of a new 14' wide x 14'-2-1/2" deep, 2-story rear addition with rooftop deck.

DEMOLITION OPERATIONS NARRATIVE:

1. Demolish existing structure by hand. Materials to be carried by hand to disposal trucks or dumpster off site and permitted separately by contractor.
2. Material disposal: Remove all elements scheduled to be demolished from property and dispose of in approved landfill. Retain all records of disposal.
3. Site protection: The existing 6' high wood privacy fences surrounding the rear yard are to remain in place.
4. Extent of demolition: Remove existing the rear wood decks and existing 1-story rear addition only, including its roof, exterior frame walls, and foundations. Basement: none within existing addition.
5. Protect adjacent building components and surfaces.
   The original exterior brick and stone foundation walls of the 2-story townhome are to remain. Clean exposed surfaces and, prepare for new work as indicated in the new addition construction drawings.
6. Utilities: All existing house utilities are to remain in operation.
   Modifications to existing systems within the work area to be in accordance with proposed new addition construction drawings.

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

PROJECT	1403 Sherman Ave - Addition		PROJECT # HD2537
CLIENT	Mark Roark, Matthew Lecornu	DATE # 3/10/2026	DWG # D1
		SCALE 1" = 10'-0"	
DWG	DEMOLITION PLAN	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

1403 Sherman Avenue - Rear Addition and Renovations

Permit Set 03.01.2026

PROJECT LOCATION:
1403 Sherman Avenue
Pittsburgh, PA 15212
Allegheny County Parcel ID: 23-K-00025

PROJECT DESCRIPTION:
The project consists of demolition of an existing 1-story wood frame addition and two wood decks at the rear of the existing 2-1/2 story rowhouse, and construction of a new 14' wide x 14'-2-1/2" deep, 2-story rear addition with rooftop deck.

An existing rear rooftop dormer is to be altered, including reconstructing the existing low-slope roof, replaceing two windows with a patio door, and replacing the exterior siding.

Interior alterations include new first floor kitchen and powder room, new second floor bedroom, and third floor renovations to the existing rear dormer. New windows and doors, cabinetry and interior and exterior finishes; new electrical, mechanical, and plumbing fixtures throughout the work areas.

City of Pittsburgh, PA Zoning Ordinance:

ZONING MAP: https://pittsburghpa.maps.arcgis.com/
ZONING DISTRICT: R1A-VH Two-Unit Residential - High Density

HISTORIC DISTRICT: Mexican War Streets Expansion District

APPLICABLE ZONING CODE REQUIREMENTS:

Principal Use: Single Family Attached Dwelling
(Existing) - Permitted Use

Site Development Standards:

Minimum Lot Size: None
Existing: 952.5 sf
Proposed: 952.5 sf (No Change)

Min Front Setback: 5 ft
Existing (House): 0 ft
Proposed (Addition): 29'-2 1/8"

Min Interior Side Setback: 0 ft *
Existing (House): 0 ft / 0 ft
Proposed (Addition): 10" and 1'-10-1/2"

Min Rear Setback: 15 ft
Existing (House): 16' 7-3/8"
Proposed (Addition): 16' 7-3/8"

Max Building Height: 40 ft / 3 stories
Existing (House): 26' / 2 stories
Proposed (Addition): 25'-9" / 2 stories

* 903.03. E. 2. (d) When a dwelling is "attached" to one (1) or more separate dwelling units on separate lots by a party wall or separate abutting wall the required interior sideyard setback shall be zero on the abutting or party wall side.

PENNSYLVANIA UNIFORM CONSTRUCTION CODE:
ADOPTING 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

Use Classification: One-Family Attached Townshouse (No Change)

Structural Design Criteria:
Min Live Load: 40 PSF Living Areas, 30 PSF Sleeping Areas
Design Ground Snow Load: 30 PSF
Exposure Category B
Vult Design Wind Speed: 115 mph

Min Frost Depth: 36 inches

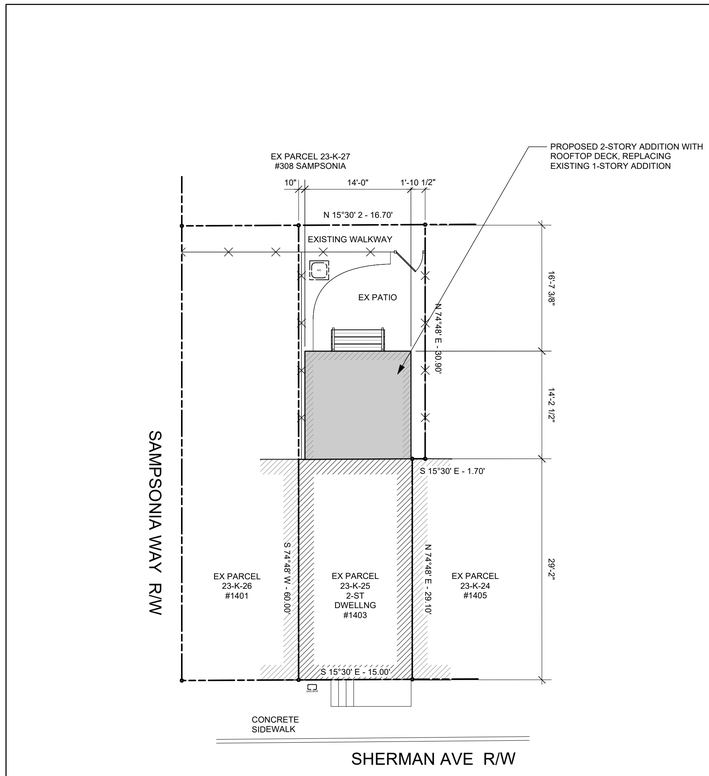
Exterior Walls Minimum Fire-Resistance Ratings (Table R302.1(1):
Walls: 0ft to <5ft Fire Separation Distance: 1-hour
>/= 5ft Fire Separation Distance: 0-hour

Openings:
0ft to <3ft Fire Separation Distance: None permitted

2 PARCEL LOCATION MAP
Scale: GRAPHIC

5 CONCEPTUAL EXTERIOR VIEW - NORTH-WEST FACADES
Scale: N/A

3 CONCEPTUAL EXTERIOR VIEW - SOUTH-WEST FACADES
Scale: N/A



1 SITE PLAN
Scale: 1" = 10'-0"

SITE PLAN BASED ON SURVEY DRAWNG #25-605, PREPARED BYARPENTEUR PROFESSIONAL SURVEYING SERVICES, DATED 11.03.2025, AND ALLEGHENY COUNTY RECORDER OF DEEDS MAP

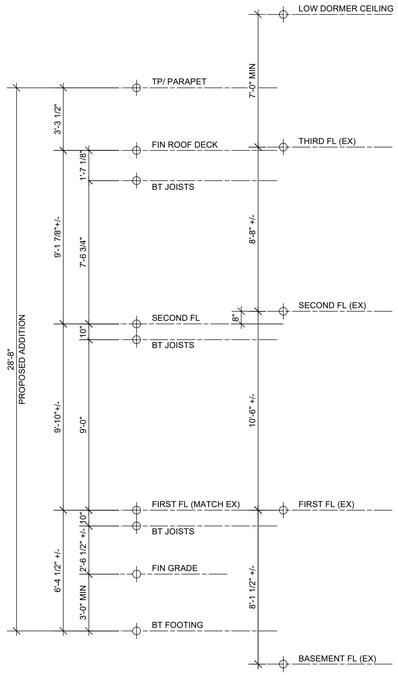
PA 1-CALL NOTIFICATION REQUIRED PRIOR TO START OF BELOW-GRADE CONSTRUCTION ACTIVITIES

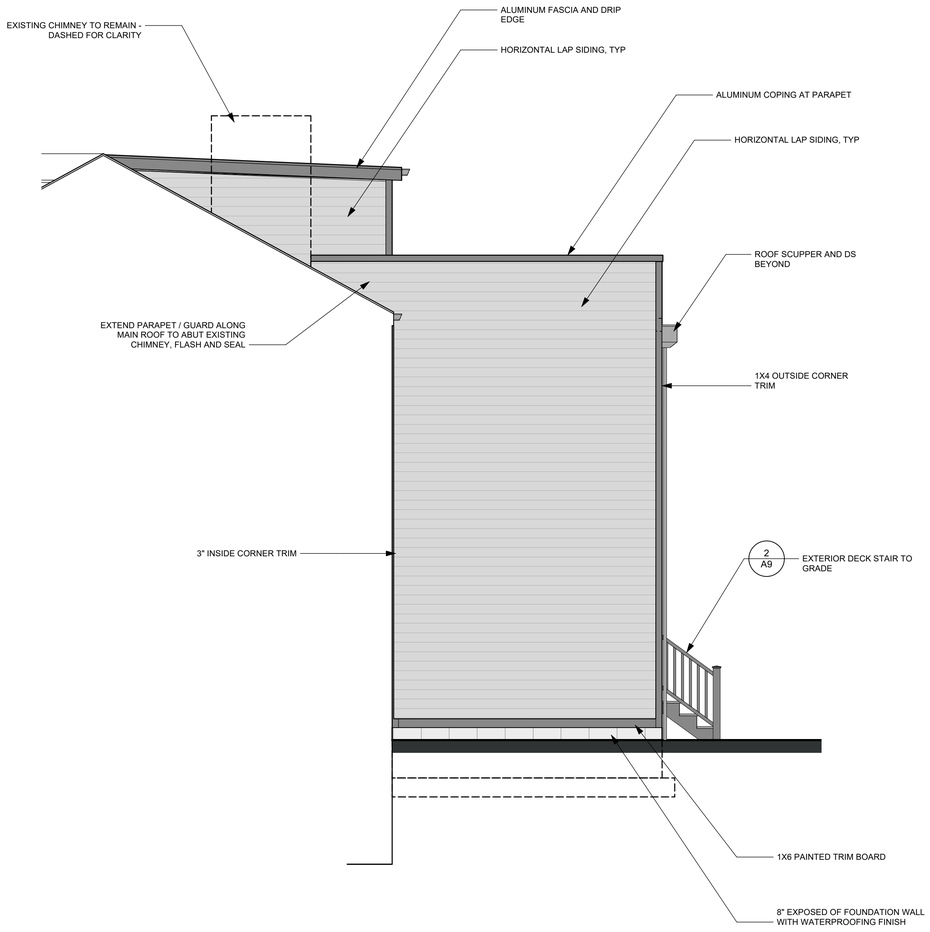
DRAWING SET:

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS #016827

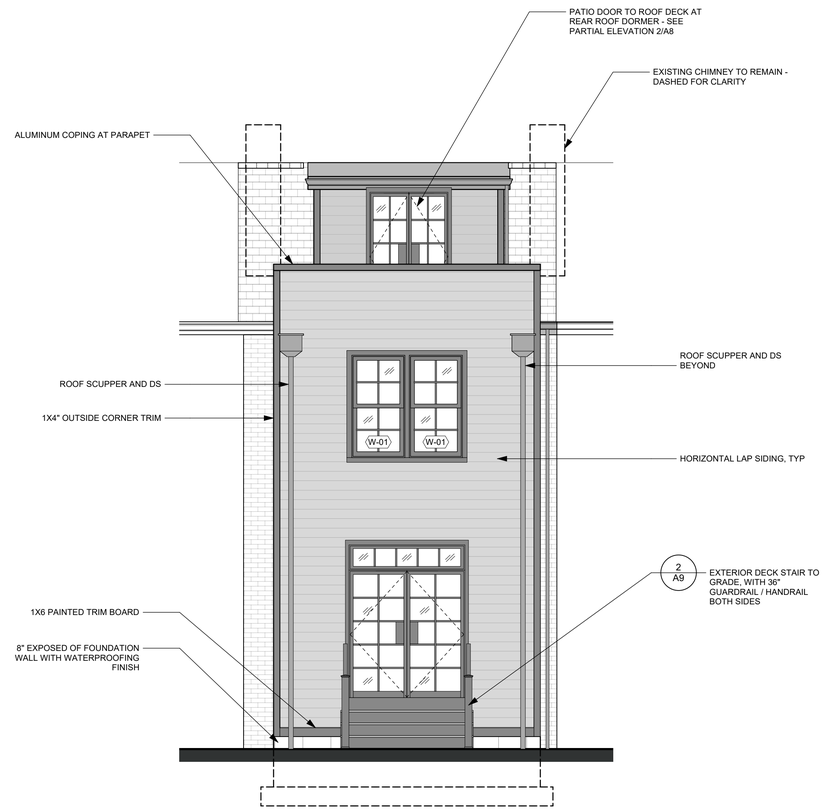
PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # C1
DWG	COVER, SITE PLAN, CODE REVIEW	SCALE AS NOTED	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com





1 EXTERIOR ELEVATION - NORTH FACADE
Scale: 1/4" = 1'-0"

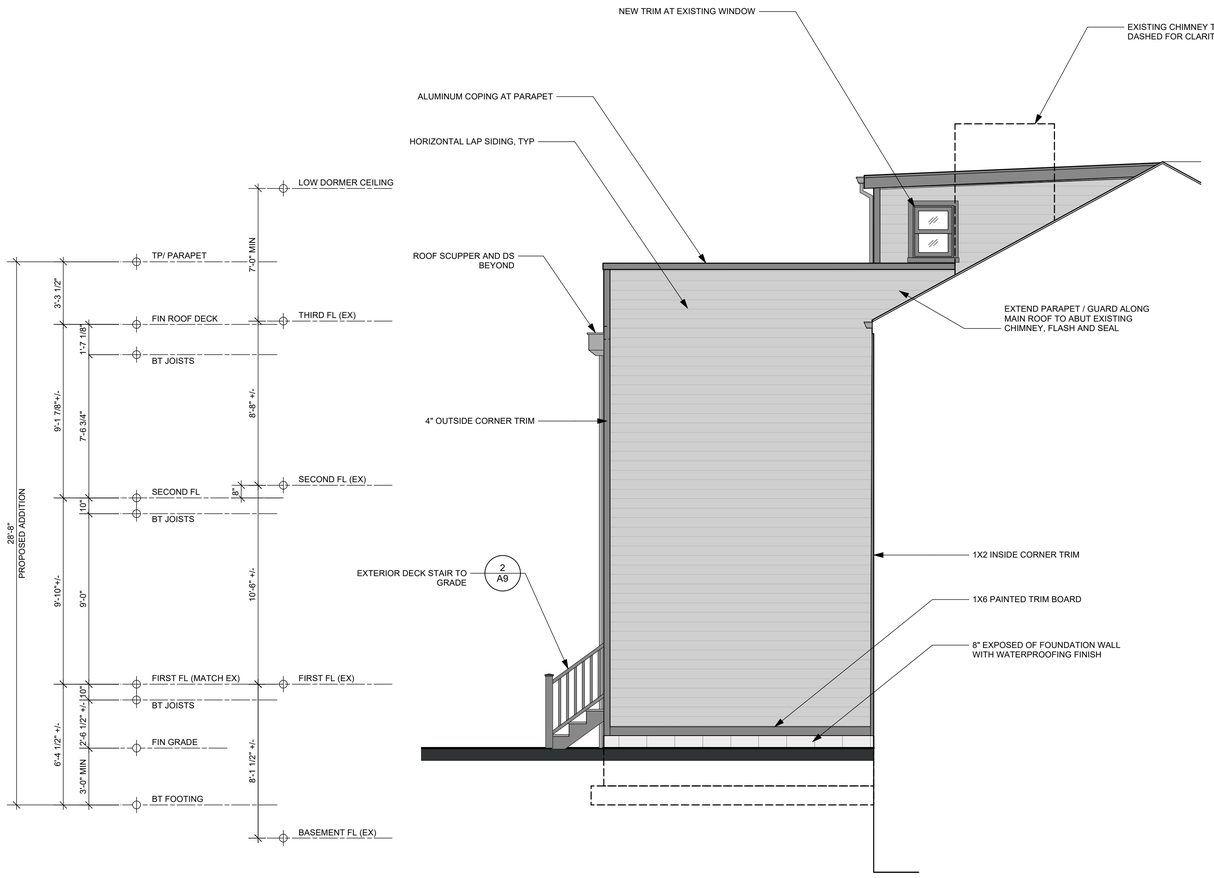


2 EXTERIOR ELEVATION - WEST FACADE
Scale: 1/4" = 1'-0"

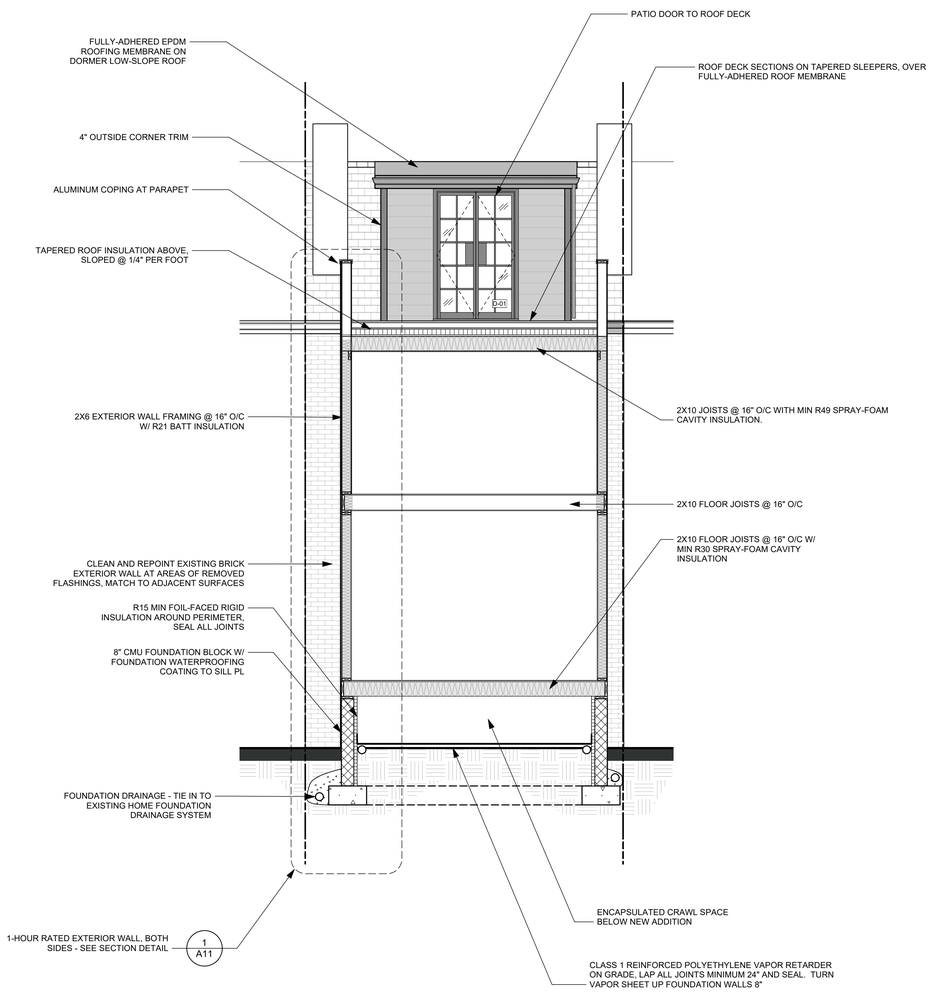
REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
ERIK ARTHUR HARLESS
RA016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A7
DWG	EXTERIOR ELEVATIONS N-W	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com



1 EXTERIOR ELEVATION - SOUTH FACADE
Scale: 1/4" = 1'-0"



2 BUILDING SECTION 2 - EXTERIOR DORMER ELEVATION WEST
Scale: 1/4" = 1'-0"

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A8
DWG	EXTERIOR ELEV - S, SECTION W	SCALE AS NOTED	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com

1403 Sherman Avenue - Materials Description

SIDING AND TRIMWORK:
The new addition is clad with cementitious plank horizontal lap siding, basis of design is Hardie-lap siding, Artisan Series, 5/8" thick material, smooth texture, installed with a 5" exposure, painted grey.

The proposed exterior corner trim work will be Hardie cementitious Artisan Trim boards, square edged, smooth texture, 5-1/2" wide by 1-1/2" thick material.

Window and door casing to be square edged, smooth texture, 3-1/2" wide by 1-1/2" thick material.

WINDOWS AND DOORS:
The proposed new windows are Marvin Signature Ultimate Series G2 double-hung units, wood interior with extruded aluminum exterior profile and with simulated divided lites and spacer bar between the glass panels. Exterior color is black.

The proposed new patio doors are Marvin Signature Ultimate Series, Inswing 3" stiles, 2-panel (leafs) doors, with single panel transom, wood interior with exterior extruded aluminum profile, and with simulated divided lites with spacer bar between the glass panels. Exterior color is black.

THIRD FOOR DORMER:
Alterations to the existing third floor level rear dormer, include: reconstruction of the existing low-slope shed roof with new framing at a lower slope in the same footprint; replacement of the existing rear windows with a new patio door to the new roof deck; and replacement of the existing exterior asphalt shingle siding with new painted cementitious plank horizontal lap siding and trim work described above.

1 CONCEPTUAL EXTERIOR VIEW - SOUTH-WEST FACADES
Scale: N/A

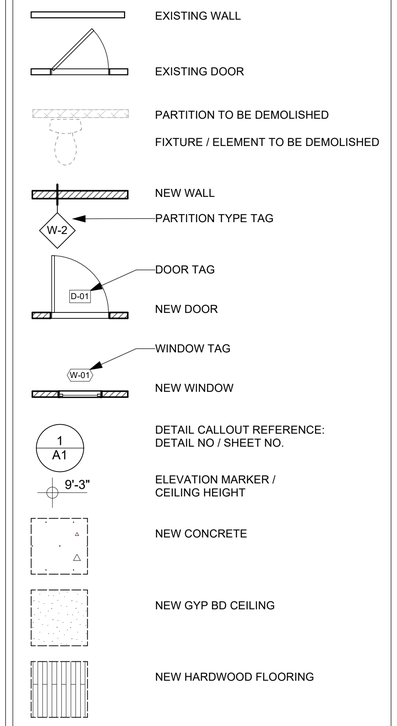
PROJECT	1403 Sherman Ave - Addition		PROJECT # HD2537
CLIENT	Mark Roark, Matthew Lecornu	DATE # 4/21/2026	DWG # C1
		SCALE	
DWG	MATERIALS	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

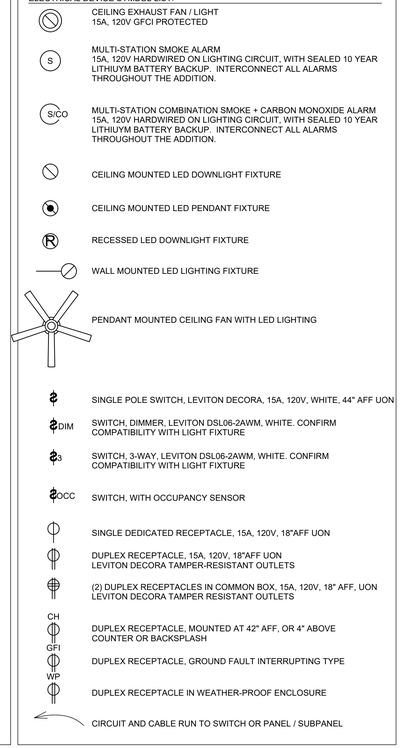
ABBREVIATIONS:

ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT OR ARCHITECTURAL
AVG	AVERAGE
B/	BOTTOM OF
BD	BOARD
BLDG	BUILDING
BSMT	BASEMENT
CC	CENTER TO CENTER
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EXIST	EXISTING
EXT	EXTERIOR
FL	FLOOR
FT	FOOT / FEET
GA	GAUGE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDW	HARDWARE
ID	INSIDE DIAMETER
IN	INCH / INCHES
INT	INTERIOR
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N	NORTH
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PL	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PTD	PAINTED
QTY	QUANTITY
R	RISER
RCP	REFLECTED CEILING PLAN
REINF	REINFORCING
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RWC	RAINWATER CONDUCTOR
S	SOUTH
SAN	SANITARY
SF	SQUARE FOOT
SIM	SIMILAR
SQ	SQUARE
STOR	STORAGE
SYS	SYSTEM
T	TREAD
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
WP	WEATHERPROOF (ENCLOSURE)
WWF	WELDED WIRE REINFORCING

GRAPHIC SYMBOL KEY



ELECTRICAL DEVICE SYMBOL LIST:



GENERAL NOTES:
1. DO NOT SCALE DRAWINGS.
2. DIMENSIONS PROVIDED ARE TO FINISHED SURFACES UNLESS OTHERWISE NOTED.
3. DRAWINGS ARE INTENDED TO CONVEY THE FINISHED ARCHITECTURAL DESIGN. MEANS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. FOR NEW CONSTRUCTION, ADDITIONS, OR SITE IMPROVEMENTS, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF PROPERTY LINES, EASEMENTS, SETBACKS AND UTILITIES PRIOR TO START OF WORK.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
6. PROTECT EXISTING ADJACENT CONSTRUCTION TO REMAIN. ITEMS SCHEDULED TO BE SALVAGED ARE TO BE REMOVED INTACT AND INSTALLED AS INDICATED OR RETURNED TO OWNER.
7. ALL FIXTURES, APPLIANCES, HARDWARE, FINAL FINISHES, AND DECORATIVE TRIM ARE TO BE SELECTED BY OWNER, PURCHASED BY AND INSTALLED BY CONTRACTOR.

PERMITS, NOTIFICATIONS, APPROVALS:
1. CONTRACTOR SHALL CONTACT THE LOCAL AUTHORITIES HAVING JURISDICTION, OBTAIN ALL NECESSSARY PERMITS AND APPROVALS PRIOR TO START OF WORK.
2. CONTRACTOR SHALL MARK SITE, NOTIFY PA ONE CALL (811) AND SUBMIT UTILITY LOCATE REQUEST IN ACCORDNACE WITH THE PA ONE-CALL SYSTEM REQUIREMENTS.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY FIELD INSPECTIONS DURING COURSE OF WORK AS REQUIRED BY THE CODE OFFICIAL, INCLUDING FINAL INSPECTION FOR OCCUPANCY.

EXCAVATION AND DEMOLITION:
1. CONTRACTOR SHALL CONFIRM COMPLETION OF THE PA ONE-CALL SYSTEM (PENNSYLVANIA 811) REQUIREMENTS.AND FIELD MARKINGS PRIOR TO START OF ANY EXCAVATION ACTIVITIES.
2. AVOID UTILITY DISTURBANCE UNLESS OTHERWISE NOTED.
3. ENSURE MEASURES ARE IN PLACE TO MAINTAIN PROTECTION TO ALL EXISTING HOUSE ELEMENTS TO REMAIN PRIOR TO START OF WORK.
4. IF NECESSARY, CONTRACTOR SHALL ENGAGE STRUCTURAL ENGINEER TO DESIGN TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURES PRIOR TO DEMOLITION AND DURING CONSTRUCTION.
5. PROVIDE TEMPORARY FALL-PROTECTION BARRIERS TO PROTECT OWNER, PUBLIC, AND WORKERS DURING CONSTRUCTION AT ANY UNPROTECTED WALL OR FLOOR OPENINGS, AND AT OPEN EXCAVATIONS THAT ARE NOT IMMEDIATELY FILLED. MAINTAIN PROTECTION IN PLACE UNTIL HAZARD IS REMOVED OR WORK IS COMPLETE.
6. KEEP EXCAVATIONS FREE FROM STANDING WATER, TRASH AND DEBRIS DURING THE COURSE OF CONSTRUCTION.
7. REMOVE ALL ELEMENTS TO BE DEMOLISHED FROM PROPERTY AND DISPOSE OF IN APPROVED LANDFILL.
8. PREPARE EXISTING SURFACES TO RECEIVE NEW WORK. REPAIR AND PATCH RUNY HOLES OR DAMAGED CONDITIONS IN SUBSTRATE MATERIALS AND FRAMING. CLEAN ALL SURFACES.
9. NO REMOVAL OR MODIFICATIONS SHALL BE MADE TO EXISTING STRUCTURAL MEMBERS NOT IDENTIFIED IN THE DRAWINGS WITHOUT THE APPROVAL OF THE ARCHITECT OR OWNER'S INDEPENDENT STRUCTURAL ENGINEER.
10. SALVAGE AND PROTECT ANY REMOVED ITEMS FOR REUSE AS NOTED ON DRAWINGS OR AS DIRECTED BY OWNER.

SITEWORK:

1. GRADING AND LANDSCAPING:
   A. REMOVE EXISTING TOPSOIL AND SUBSOILS FROM AREAS OF NEW CONSTRUCTION. STORE ON SITE FOR REUSE.
   B. FINISH GRADING AS INDICATED ON THE DRAWINGS, USING NEW AND SALVAGED SUBSOILS AND TOPSOILS FURNISHED BY CONTRACTOR TO ACHIEVE FINISH CONDITION.
   C. FILL ANY EXCAVATIONS, RUTS, OR DEPRESSIONS CAUSED OR CHANGED BY CONSTRUCTION OPERATIONS, FINISH WITH 2" TOPSOIL.
   D. SLOPE FINISH GRADES AWAY FROM BUILDING(S) AND FOUNDATIONS AND DIRECT TO APPROVED DRAINAGE.
   E. FURNISH AND PLACE GRASS SEED AND STRAW AT ALL NEW OR BARE LAWN AREAS RESULTING FROM CONSTRUCTION.

CAST-IN-PLACE FOUNDATIONS:
1. ALL CAST-IN-PLACE FOOTINGS SHALL BEAR ON UNDISTURBED SOILS OR ON ENGINEERED FILL WITH THE ALLOWABE BEARING PRESSURES OF 1,500 PSF UNDER SERVICE LIVE AND DEAD LOADS.
2. FOOTINGS SHALL BE FORMED UNLESS THE ADHESION OF THE ADJACENT SOILS IS SUCH THAT IT MAY BE POURED INTO AN EARTH FORMED TRENCH.
3. MAINTAIN MINIMUM 36" FROST DEPTH FROM BOTTOM OF FOOTING TO FINAL GRADE WHERE INDICATED FOR EXTERIOR FOOTINGS; STEP FOOTINGS AS NECESSARY. FOOTINGS INSTALLED WITHIN THE INTERIOR OF EXTERIOR WALLS MAY BE PLACED BELOW FINISHED SLAB OR AS INDICATED.
4. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLAB AT TOP AND BOTTOM ARE IN PLACE AND CURED.
5. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.
6. FOUNDATION CONCRETE SHALL HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI BEFORE BEING LOADED.
7. WALLS, COLUMNS SHALL BE CENTERED ON FOOTINGS UNLESS NOTED OTHERWISE.

BACKFILL:
1. PRIOR TO BACKFILLING, REMOVE ANY STANDING WATER, CLEAN EXCAVATION FREE OF TRASH & DEBRIS.
2. BACKFILL: CLEAN FILL CONSISTING OF HARD AGGREGATE, DURABLE INERT MATERIALS FREE FROM CONSTRUCTION LUMBER, VEGETATION, CLAY, SILT.
3. PLACE AGGREGATE FILL IN 4" LIFTS AND COMPACT TO PROVIDE 95% COMPACTION.

CONCRETE:
1. ALL CONCRETE SHALL BE NORMAL WEIGHT (DENSITY = 145 PCF) AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
2. CONCRETE SLUMP SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED, IN WHICH CASE MAX SLUMP IS 7".
3. COURSE AGGREGATE SIZE SHALL BE #57 OR LARGER.
4. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED.
5. VAPOR RETARDER: 6 MIL POLYETHYLENE SHEET WITH JOINTS LAPPED NOT LESS THAN 12".
6. WIRE REINFORCING MESH: 6X6-W1.4 X W1.4 WELDED WIRE FABRIC

CONCRETE MASONRY UNITS (CMU):
1. CONCRETE BLOCK: ASTM C90-03
2. ALL CMU SHALL BE NATURAL GRAY, NORMAL WEIGHT
3. MORTAR: ASTM C270, TYPE S
4. HORIZONTAL JOINT REINFORCING: ASTM A951, LADDER TYPE.

CRAWL SPACE ENCAPSULATION:
1. PLACE GRADE INSULATION PROTECTION BOARD BY TERRA-BLOCK OR APPROVED EQUAL ON SUBGRADE..
2. VAPOR BARRIER: 10 MIL, CONTINUOUS CLASS 1 REINFORCED VAPOR BARRIER. OVERLAP EDGES MIN 24 INCHES AND SEAL ALL JOINTS. EXTEND VAPOR BARRIER VERTICALLY MIN 8 ", MECHANICALLY ATTACH TO ALL VERTICAL WALLS AND COLUMNS, AND SEAL/ TAPE-OVER ATTACHMENT.

FOUNDATION WATERPROOFING:
1. PROVIDE BELOW-GRADE FOUNDATION WATERPROOFING SYSTEM WHERE INDICATED BY: PRESSURE-SEAL, TREMCO TUFF-N-DRY, OR EQUAL.
2. COMPLETE FOUNDATION WATERPROOFING TO SILL PLATE WITH ABOVE-GRADE WATERPROOFING COATING SYSTEM, FINISH PAINT WHERE EXPOSED AS DIRECTED BY OWNER.

WOOD:
1. INTERIOR FRAMING LUMBER: NOMINAL 2X STRUCTURAL LUMBER: NO. 2 GRADE, SPF.
2. EXTERIOR FRAMING LUMBER: NOMINAL 2X STRUCTURAL LUMBER, NO. 2 GRADE, SOUTHERN YELLOW PINE.
3. FLOOR SHEATHING: NOM 3/4" THICK T&G STRUCTURAL PLYWOOD PANELS, APA CERTIFIED
4. WALL SHEATHING: 7/16" THICK OSB PANELS, APA CERTIFIED EXPOSURE 1, PS-2 SPAN RATING 24/16
5. ROOF SHEATHING: 5/8" THICK, T&G STRUCTURAL PLYWOOD PANELS, APA CERTIFIED, EXPOSURE 1, PS-2 SPAN RATING 40/20
6. PRESSURE TREATED LUMBER:
   A. ALL LUMBER EXPOSED TO THE ELEMENTS ON A PERMANENT BASIS FOR ABOVE GROUND USE, INCLUDING WOOD IN CONTACT WITH ROOFING FLASHING OR WATERPROOFING, WOOD IN CONTACT WITH MASONRY OR CONCRETE, WOOD WITHIN 18 INCHES OF GRADE, ALL DECK FRAMING AND FENCE BOARDS AND OTHER MEMBERS INDICATED ON THE DRAWINGS IS TO BE TREATED WITH PRESERVATIVE TREATMENT, SUCH AS ACQ PRESERVE, ULTRAWOOD OR OR EQUAL. USE 0.40 PCF RETENTION AND KILN DRIED AFTER TREATMENT.
   B. ALL LUMBER IN CONTACT WITH THE GROUND AND FRESH WATER ARE TO BE RATED FOR GROUND CONTACT.
   C. FIELD-APPLY WATERPROOFING TO ALL CUT ENDS.
7. ENGINEERED WOOD BEAMS (LVL): MICROLAM 2.0E LVL, PRODUCTS OF WEYERHAEUSER, LP SOLIDSTART, BOISE CASCADE OR APPROVED EQUAL.
   A. SIZE AS INDICATED ON THE DRAWINGS AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
8. LUMBER FASTENERS: SIMPSON STRONG-TIE, 18GA STEEL, WITH G90 GALVANIZED FINISH
   JOIST HANGERS: LU-SERIES JOIST HANGERS
   HURRICANE TIES: H2.5T
   OTHER CONNECTORS AS SCHEDULED ON THE DRAWINGS, OR AS NECESSARY TO MEET THE MINIMUM REQUIREMENTS OF THE 2018 IRC

STRUCTURAL STEEL:
1. MISC CHANNELS, ANGLES, PLATES: ASTM A36
2. REBAR FOR CONCRETE: ASTM A-615 GRADE 60
3. ANCHOR BOLTS: ASTM F1554, GRADE 36

GYPSUM BOARD PANELS:
1. INTERIOR NON-RATED PANEL: 1/2" GOLD BOND GYPSUM BOARD
2. INTERIOR MOISTURE-RESISTIVE PANEL: 1/2" GOLD BOND PURPLE BOARD
3. EXTERIOR RATED SHEATHING: 5/8" GOLD BOND eXP FIRE SHIELD EXT SHEATHING
4. INTERIOR FIRE-RATED PANEL: 5/8" GOLD BOND XP FIRE SHIELD

INSULATION:
1. BATT INSULATION:JOHN MANSVILLE FORMALDEHYDE-FREE BATTS TO ACHIEVE MINIMUM R3.5 PER INCH
2. FOIL-FACED RIGID INSULATION: POLYISOCYANURATE PANELS, BY DUPONT, DOW, JOHNS MANSVILLE OR APPROVED EQUAL. FACING RATED TO REMAIN EXPOSED. THICKNESS TO ACHIEVE MIN R-VALUE AS INDICATED.
3. SPRAY POLYURETHANE: CLOSED-CELL FOAM INSULATION TO ACHIEVE R7 PER INCH

EXTERIOR FINISHES:
1. SIDING: FIBER-CEMENT HORIZONTAL PLANK LAP SIDING BY JAMES HARDIE OR APPROVED EQUAL.
   PRODUCT WIDTH: 7-1/4", WITH 6" EXPOSURE, TEXTURE: SMOOTH
   FACTORY-PRIMED FOR FIELD PAINT FINISH, COLOR TO BE SELECTED
2. WEATHER-RESISTIVE BARRIER HOUSE WRAP: NON-WOVEN, MICROPERFORATED FABRIC
   MVTR: 200g/100si/24hr MIN
3. SOFFIT PANELS: ALUMINUM BEADBOARD PROFILE, NON-VENTED
4. EXTERIOR CEILINGS: VERSATEX CANVAS SERIES PVC WP4 PROFILE, OR APPROVED EQUAL
   COLOR TO BE SELECTED.

EXTERIOR DECKING, STAIR TREADS, RAILING COMPONENTS:
1. DECKING MATERIAL: TIMBERTECH COMPOSITE, PREMIER COLLECTION, COLOR: TBD
   PROVIDE JOIST TAPE AT TOPS OF ALL DECK FRAMING MEMBERS.
2. GUARDRAILING: SEE DECK DETAILS FOR BASIS OF DESIGN SPECIFICATIONS

ROOFING:
1. EPDM LOW-SLOPE MEMBRANE ROOFING BASIS OF DESIGN:
   CONFIRM AND COORDINATE ALL INSTALLATION REQUIREMENTS WITH MANUFACTURER
   A. MEMBRANE: SURE-SEAL EPDM FULLY ADHERED ROOFING SYSTEM, 90 MIL THICKNESS
   B. MEMBRANE BONDING ADHESIVE: 90-8-30A
   C. FASTENERS PER MANUFACTURER
   D. COVER BOARD: DENSDECK PRIME
   E. WARRANTY PERIOD: 25 YEAR
2. ROOF SHINGLES: CERTAINTEED LANDMARK 25YR ASPHALT DIMENSIONAL ROOF SHINGLES OR APPROVED EQUAL, 110MPH WIND WARRANTY.
3. UNDERLAYMENT: HIGH-TRACTION SYNTHETIC ROOFING FELT.
4. ICE AND WATER-SHIELD UNDERLAYMENT: 36" WIDE SELF-ADHERING POLYMER SHEETING:
   EXTEND MEMBRANE PROTECTION TO MINIMUM 48" BEYOND INSIDE FACE OF EXTERIOR WALLS
5. DRIP EDGE, FASCIA, GUTTERS, DOWNSPOUTS: ALUMINUM,
6. GUTTER: 5" AND 6" ALUM, K-STYLE PROFILE, ALUMINUM
7. DOWNSPOUT, 2X3 ALUMINUM. TERMINATE TO RAINWATER CONDUCTOR BOOT.

WINDOWS AND DOORS:
1. SEE DRAWINGS AND SCHEDULES FOR BASIS OF DESIGN SPECIFICATIONS

MECHANICAL ELECTRICAL, AND PLUMBING SYSTEMS ARE CONSIDERED DESIGN BUILD:

1. DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY TO DESCRIBE THE ARCHITECTURAL INTENT FOR THE LOCATIONS AND TYPES OF PLUMBING FIXTURES, MECHANICAL APPLIANCES, REGISTERS, AND ELECTRICAL DEVICES.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE PROJECT, AND PROVIDE FOR ALL DESIGN AND MATERIAL COMPONENTS TO ACHIEVE THE ARCHITECTURAL INTENT IN A FULLY CODE-COMPLIANT INSTALLATION, INCLUDING THE PROVISION OF ENGINEERED SHOP DRAWINGS, IF DETERMINED NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
3. NEW PIPING, DUCT RUNS, AND ELECTRICAL WIRING SHALL BE ROUTED IN WALL AND FLOOR ASSEMBLIES IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE. FIRE-STOP ALL PENETRATIONS OF FLOORS, CEILINGS AND WALLS AS REQUIRED BY CODE.
4. ALL FIXTURES AND FINISHES TO BE SELECTED BY OWNER THRU AND INSTALLED BY THE GENERAL CONTRACTOR. THESE FIXTURES SHALL INCLUDE, BUT ARE NOT LIMITED TO: SHOWER STALL, TOILET, VANITY & SINK, COUNTERTOPS, MIRRORS, EXHAUST FANS, LIGHTING FIXTURES AND ELECTRICAL DEVICES, MECHANICAL APPLIANCES.
5. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS FOR DIMENSIONED FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

PLUMBING SYSTEMS:
THE PLUMBING WORK GENERALLY CONSISTS OF NEW FIXTURES, WATER SUPPLY AND SANITARY DRAINAGE PIPING FOR NEW KITCHEN AND POWDER ROOMS, ROOFING DRAINAGE AND EXTERIOR FOUNDATION FRENCH DRAINAGE AND YARD DRAIN, ALL EXTENDING AND CONNECTING TO THE EXISTING HOUSE SERVICE SUPPLY AND SANITARY SEWER SERVICE LATERALS.

1. EXISTING PLUMBING SYSTEMS ARE TO BE VERIFIED IN FIELD, PRIOR TO, AND DURING THE COURSE OF WORK. CLEAN, TEST, AND VIDEO THE EXISTING SANITARY PIPING FOR PROPER OPERATION AND APPROVALS, BEFORE FINAL CONNECTIONS ARE MADE.
2. ALL NEW PLUMBING PIPING TO BE ROUTED IN WALL AND FLOOR ASSEMBLIES IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE AND ALLEGHENY COUNTY HEALTH DEPARTMENT PLUMBING DIVISION REQUIREMENTS.

MECHANICAL SYSTEMS:
THE MECHANICAL WORK GENERALLY CONSISTS OF NEW SUPPLY BRANCH DUCTS WITH NEW REGISTERS AND GRILLES TO THE NEW ADDITION ROOMS EXTENDING AND CONNECTING TO THE EXISTING HOUSE HVAC SYSTEM; NEW EXHAUST FANS SERVING THE POWDER ROOM, KITCHEN EXHAUST AND CLOTHES DRYER EXHAUST.

1. CRAWL-SPACE DEHUMIDIFIER: COMMERCIAL, PORTABLE UNIT WITH PROGRAMMABLE OPERATION TO MAINTAIN HUMIDITY, INCLUDE OPTIONAL REMOTE. RATED FOR UP TO 1000SF FLOOR AREA, 35 PINTS/DAY MINIMUM DEHUMIDIFICATION CAPACITY, 115 CUBIC METER/MIN MINIMUM AIR FLOW CAPACITY. INCLUDE REUSABLE AIR FILTER AND CONDENSATE PUMP.

   PERFORMANCE: ENERGY STAR CERTIFIED. SEER 17.5, EER 16.0

ELECTRICAL SYSTEMS
THE ELECTRICAL WORK GENERALLY CONSISTS OF NEW LIGHTING, RECEPTACLES, CEILING FANS, EXHAUST FANS, BOXES AND WIRING DISTRIBUTION THROUGHOUT THE ADDITION, EXTENDED FROM THE EXISTING HOUSE SERVICE AND MAIN PANEL.

1. ELECTRICAL CONTRACTOR TO INSPECT EXISTING ELECTRICAL SERVICE AND MAIN PANEL FOR CONTINUED USE. UPGRADE AS NECESSARY FOR THE PROPOSED WORK.
2. NEW CIRCUIT BREAKERS SHALL MATCH THE MODEL, MANUFACTURER AND AIC RATING OF THE MAIN PANEL.
3. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION:
   PROVIDE GFCI/GFI PROTECTED RECEPTACLES WHERE INSTALLED THROUGHOUT LOCATIONS AS REQUIRED BY THE NATIONAL ELECTRIC CODE, INCLUDING SPECIFICALLY: BATHROOMS, UNFINISHED BASEMENTS, KITCHENS, SINKS, BATHROOMS, AND LAUNDRY AREAS.
4. ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION:
   PROVIDE AFCI PROTECTION AT ALL CIRCUITS SERVING LOCATIONS AS REQUIRED BY THE NATIONAL ELECTRIC CODE, INCUDING SPECIFICALLY: KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS.
5. ALL RECEPTACLES SHALL BE TAMPER RESISTANT FOR BOTH GFCI AND STANDARD RECEPTACLES.
6. RECESSED LIGHTS TO BE IC RATED, SEALED AT HOUSING / INTERIOR FINISH

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # C2
DWG	NOTES, SPECIFICATIONS	SCALE	
		DRAWN EH	
		CHKD EH	REVISION

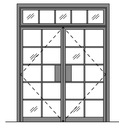
Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com

DOOR SCHEDULE:

MARK:	LOCATION	SIZE	CONFIGURATION	TYPE:	HDWE TYPE	PERFORMANCE:	SCREEN DOOR:	NOTES
FIRST FLOOR:								
D-01	KITCHEN	6068	DUAL INSWING	EXT 1	ENTRY LEVER LATCHSET W/ DEADBOLT	U-FACTOR 0.30	Y	
D-02	POWDER RM	2068	RH SWING	INT 1	PRIVACY LATCHSET	N/A		
D-03	BEDROOM	2868	RH SWING	INT 1	PRIVACY LATCHSET	N/A		
D-04	LAUNDRY CLO	2868	RH SWING	INT 1	CLOSET	N/A		PROVDE LOUVER FOR AIR INTAKE PER APPLIANCE MANUFACTURER
D-05	CLOSET	2868	LH SWING	INT 1	CLOSET	N/A		
D-06	ROOF DECK	4068	DUAL-INSWING	EXT 2	ENTRY LEVER LATCHSET	U-FACTOR 0.30	Y	

DOOR TYPES:

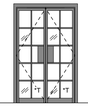
TRANSOM UNIT - BASIS OF DESIGN
MARVIN ULTIMATE TRANSOM UNIT, 1-SASH 1 FRAME
6-0 WIDTH X 1-6 HEIGHT



EXTERIOR DOOR 1 - BASIS OF DESIGN
MARVIN ULTIMATE HINGED INSWING PATIO DOOR
2-PANEL 6-0 WIDTH X 6-8 HEIGHT

EXTRUDED ALUMINUM EXTERIOR: COLOR EBONY
WOOD INTERIOR: COLOR, MATT BLACK
HARDWARE: MATT BLACK

GLASS: 15/16" DUAL-PANE GLASS, WITH LOW E2 ARGON, TEMPERED
SIMULATED DIVIDED LITES WITH SPACER BAR -
RECTANGULAR PATTERN AS SHOWN



EXTERIOR DOOR 2 - BASIS OF DESIGN
MARVIN ULTIMATE HINGED INSWING PATIO DOOR
2-PANEL 4-0 WIDTH X 6-8 HEIGHT

EXTRUDED ALUMINUM EXTERIOR: COLOR EBONY
WOOD INTERIOR: COLOR, MATT BLACK
HARDWARE: MATT BLACK

GLASS: 15/16" DUAL-PANE GLASS, WITH LOW E2 ARGON, TEMPERED
SIMULATED DIVIDED LITES WITH SPACER BAR -
RECTANGULAR PATTERN AS SHOWN

INTERIOR DOOR TYPE 1 - BASIS OF DESIGN:
STEVES AND SONS
PREHUNG MOLDED WOOD COMPOSITE
CONFIGURATION: 1-PANEL SHAKER SQUARE

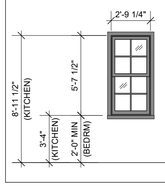
SOLID CORE
SMOOTH FINISH
COLOR: PRIMED FOR PAINT FINISH

WINDOW SCHEDULE:

MARK:	BASIS OF DESIGN	UNIT #	SIZE:	EGRESS?	GLASS	U-FACTOR:	SHGC	SCREEN:	COMMENTS:
W-01	MARVIN ULTIMATE SERIES DH G2	UDHG2 2830 E	2'-9 1/4" X 5'-7 1/2"	Y	15/16" DUAL PANE LOW E2/ERS, ARG	0.28	0.27	Y	
W-02	MARVIN ULTIMATE SERIES DH G2	UDHG2 2014	2'-1 1/4" X 2'-11 1/2"	N	15/16" DUAL PANE LOW E2/ERS, ARG	0.28	0.27	Y	

NOTES:
*E - DESIGNATION ON PLANS INDICATES EMERGENCY ESCAPE AND RESCUE OPENING IN ACCORDANCE WITH IRC R310
*T - DESIGNATION INDICATES TEMPERED/SAFETY GLAZING REQUIRED IN ACCORDANCE WITH IRC R308.4.2 OR R308.4.3.

WINDOW TYPES

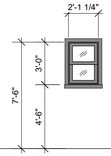


W-01: BASIS OF DESIGN UNIT UDHG2 2830 E
MARVIN ULTIMATE COLLECTION, DOUBLE-HUNG,

EXTRUDED ALUMINUM EXTERIOR: COLOR EBONY
WOOD INTERIOR: COLOR, MATT BLACK
HARDWARE: MATT BLACK

GLASS: 15/16" DUAL-PANE GLASS, WITH LOW E2 ARGON, TEMPERED
SIMULATED DIVIDED LITES WITH SPACER BAR -
RECTANGULAR PATTERN AS SHOWN

EGRESS:
EXCEEDS NET CLEAR OPENING 5.7 SF MIN

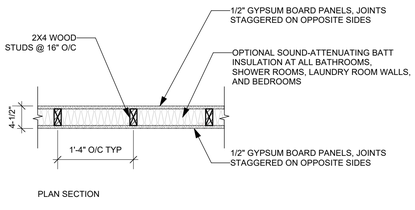


W-01: BASIS OF DESIGN UNIT UDHG2 2014
MARVIN ULTIMATE COLLECTION, DOUBLE-HUNG,

EXTRUDED ALUMINUM EXTERIOR: COLOR EBONY
WOOD INTERIOR: COLOR, MATT BLACK
HARDWARE: MATT BLACK

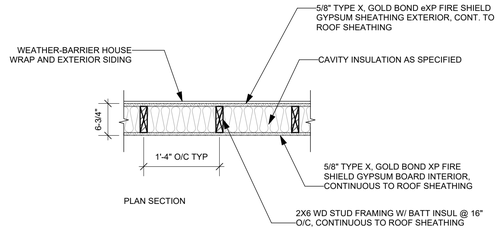
GLASS: 15/16" DUAL-PANE GLASS, WITH LOW E2 ARGON, TEMPERED

EGRESS:
EXCEEDS NET CLEAR OPENING 5.7 SF MIN



PLAN SECTION

1 TYPICAL INTERIOR PARTITION - NON RATED

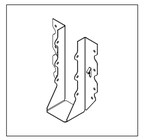


PLAN SECTION

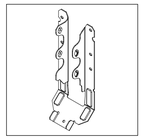
2 1-HOUR FIRE RATED EXTERIOR WALL

UL DESIGN NO. U-305
1-HOUR FIRE-RESISTANCE-RATED EXTERIOR WALL RATED FOR EXPOSURE FROM BOTH SIDES

4 SIMPSON H2.5T TIE, EACH RAFTER TO BEAM

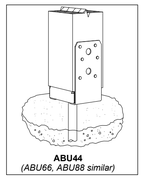


7 FACE-MOUNT JOIST HANGER
SIMPSON STRONG-TIE LU SERIES



6. FACE-MOUNT RAFTER HANGER
SIMPSON STRONG-TIE LRU28Z

5. TENSION TIE, HOLD-DOWN CONNECTOR
SIMPSON STRONG-TIE DTT2Z-SDS



ABU44
(ABU66, ABU88 similar)

1. ADJUSTABLE POST BASE
W/ UPLIFT AND 1" STANDOFF
SIMPSON STRONG TIE TITEN HD ANCHOR

1 STANDARD STRUCTURAL CONNECTORS
Scale: N/A

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # C3
DWG	SCHEDULES, TYPES	SCALE 1:64	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

REScheck-Web™

Compliance Certificate

Project Information

Project Title:	**1403 Sherman Ave - Addition**
Energy Code:	2018 IECC
Location:	Pittsburgh, Pennsylvania
Construction Type:	Single Family
Project Type:	Addition
Project Sub Type:	None
Glazing Area:	12%
Climate Zone:	5a (5212 HDD)
Project No:	1802618
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
1403 Sherman Ave
Pittsburgh , PA 15212

Owner/Agent:

Designer/Contractor:
Harless Design
(412) 431-5911
erik.harless@zoho.com

Project Notes:

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor/ F-Factor	Req. U-Factor/ F-Factor	Prop. UA	Req. UA
Ceiling: Flat Ceiling or Scissor Truss	175	49.0	0.0	0.026	0.026	5	5
Floor: All-Wood Joist/Truss	222	30.0	0.0	0.033	0.033	7	7
Crawl Wall: Masonry Block w/ Empty Cells Wall height: 4.67 Depth below grade: 2.00 Insulation depth: 4.67	183	0.0	15.0	0.057	0.055	10	10
Wall - North: Wood Frame, 16" o.c.	270	21.0	0.0	0.057	0.060	15	16
Wall - South: Wood Frame, 16" o.c.	270	21.0	0.0	0.057	0.060	15	16
Windows W-02: Wood Frame	6			0.280	0.300	2	2
Wall - West: Wood Frame, 16" o.c.	370	21.0	0.0	0.057	0.060	15	16
Windows W-01: Wood Frame	30			0.280	0.300	8	9
Door - Ext 2: Glass Door (over 50% glazing)	27			0.300	0.300	8	8
Door - Ext 1: Glass Door (over 50% glazing)	50			0.300	0.300	15	15

Compliance: Passes using UA trade-off
Compliance: 3.8% Better Than Code **Max UA: 104** **Your UA: 100**

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

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Compliance Statement

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

Erik Harless, Architect	Erik Harless	March 1, 2026
Name - Title	**Signature**	**Date**

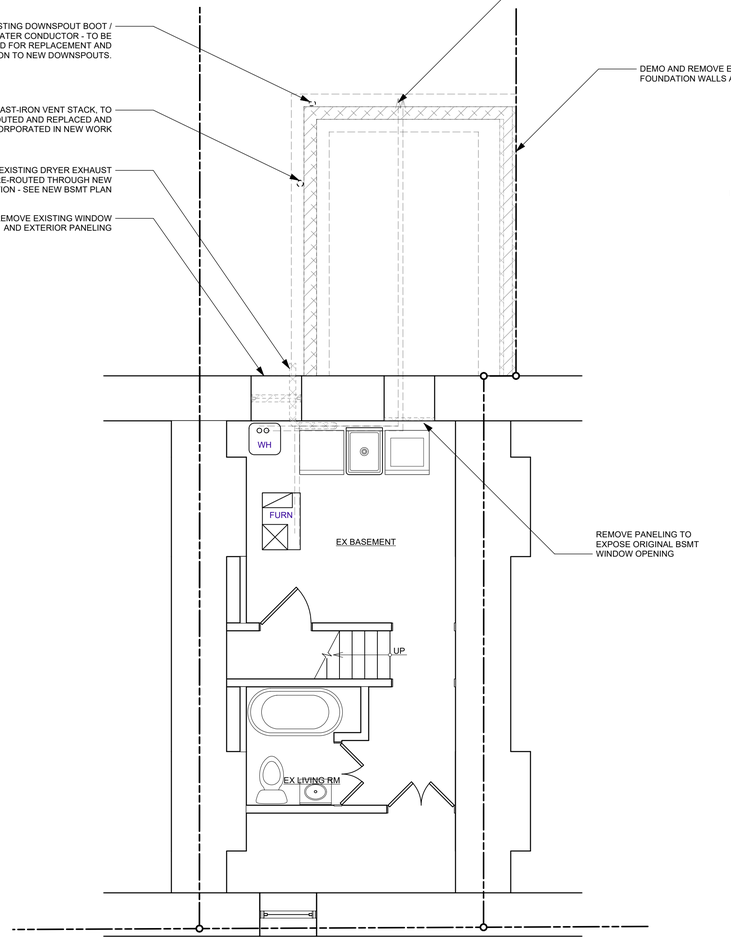
ENERGY CODE COMPLIANCE GENERAL NOTES:

1. THE ADDITION AND ALTERATIONS TO THE EXISTING BUILDING ARE TO COMPLY WITH THE PROVISIONS OF THE 2018 IECC AS RELATED TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTIONS OF THE BUILDING TO COMPLY.
2. ANY EXISTING BUILDING ENVELOPE CAVITIES WHICH ARE EXPOSED DURING CONSTRUCTION ARE TO BE FILLED WITH INSULATION IN ACCORDANCE WITH IECC R503.1.1 EXCEPTION 2.
3. BUILDING CAVITES ARE NOT USED AS DUCTS OR PLENUMS.
4. RECIRCULATING RADIATOR PIPING, NEW OR EXPOSED DURING CONSTRUCTION, ARE TO BE INSULATED TO R-3 MIN.
5. ALL NEW PERMANENT LIGHTING FIXTURES TO HAVE HIGH-EFFICACY LED LAMPS

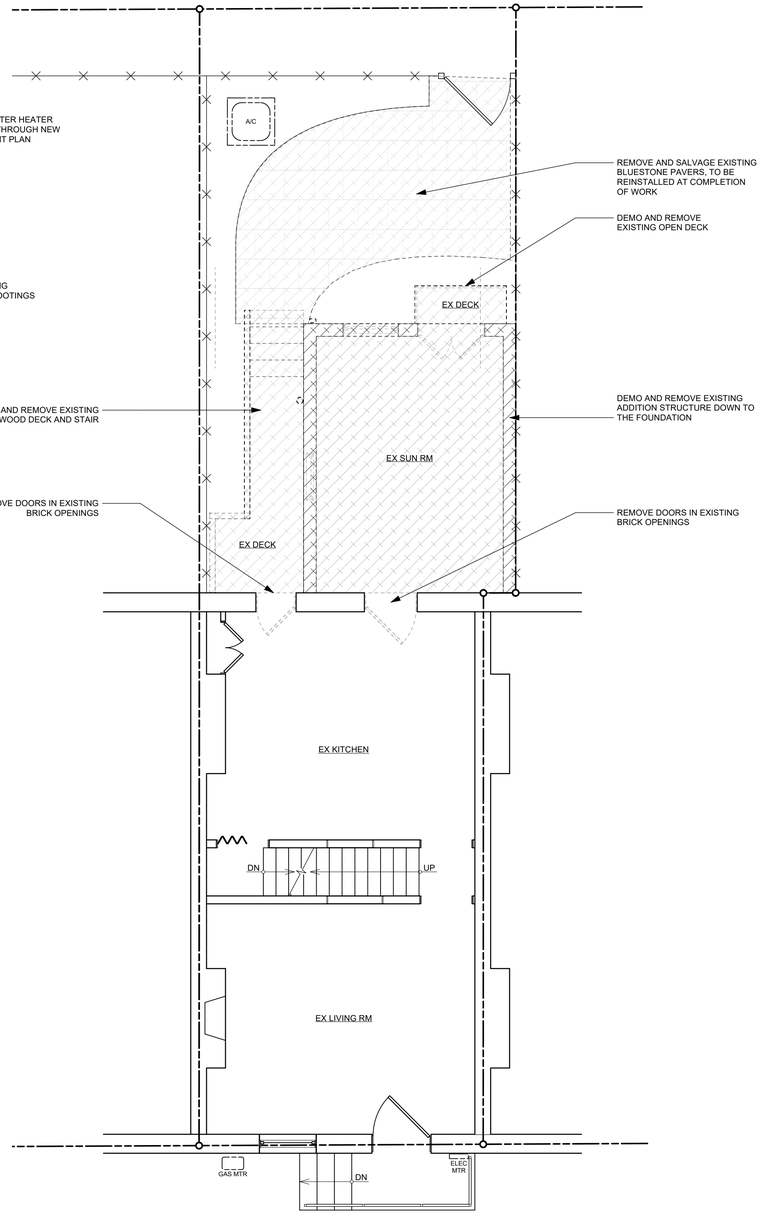
REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS AR016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # C4
DWG	ENERGY CODE COMPLIANCE	SCALE	
		DRAWN EH	
		CHKD EH	REVISION

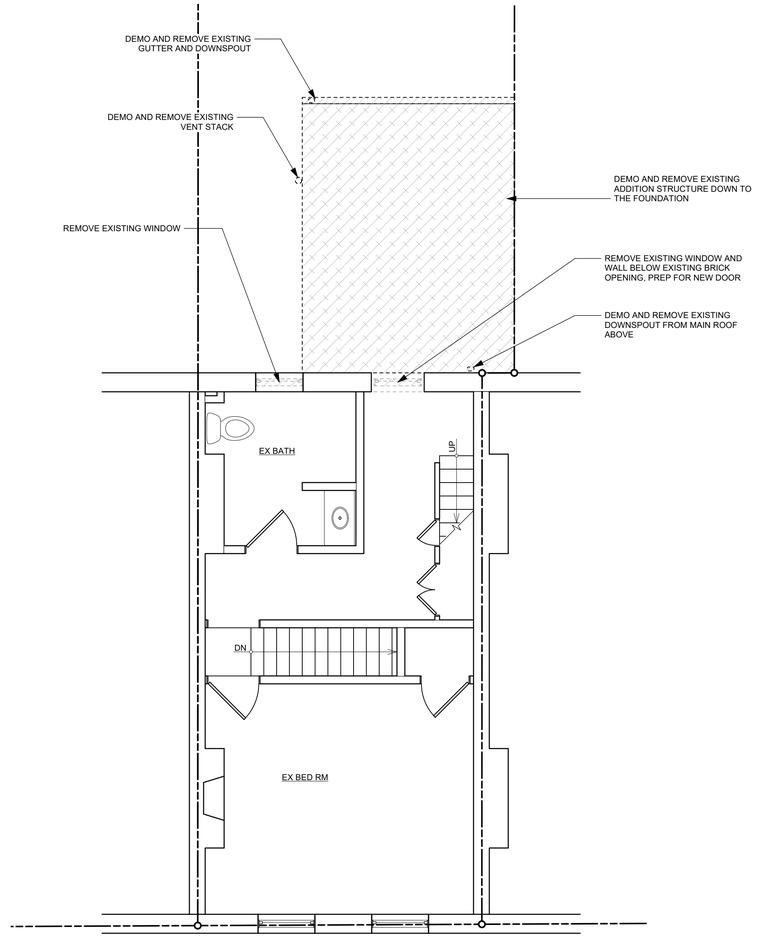
Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com



1 EXISTING AND DEMO BASEMENT FLOOR PLAN
Scale: 1/4" = 1'-0"



2 EXISTING AND DEMO FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"



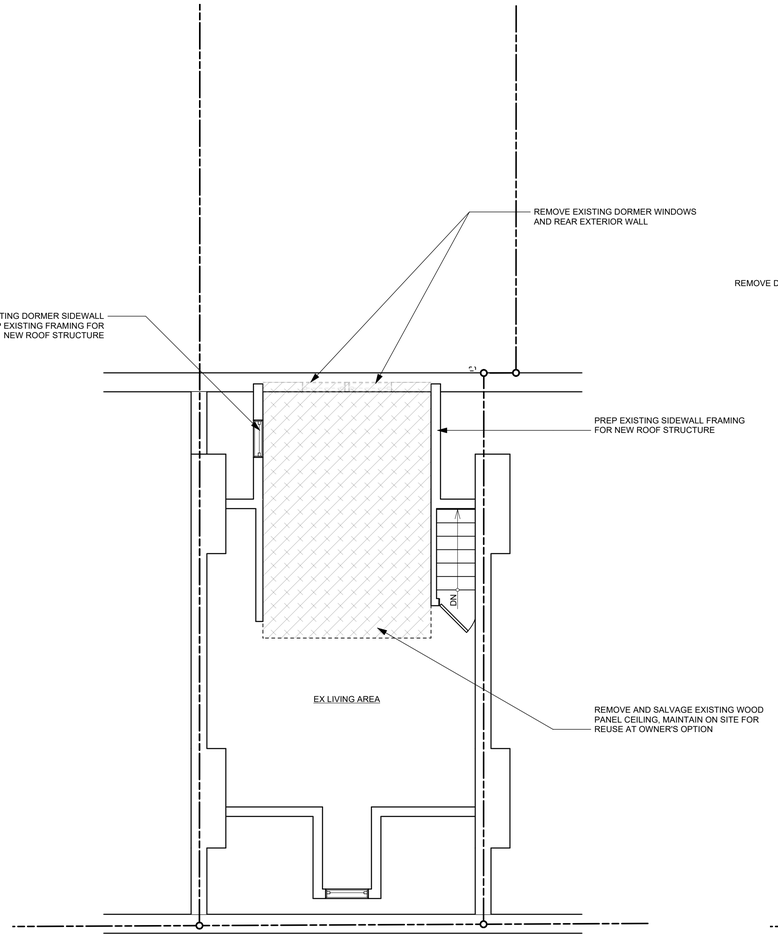
3 EXISTING AND DEMO SECOND FLOOR PLAN
Scale: 1/4" = 1'-0"

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS #016827

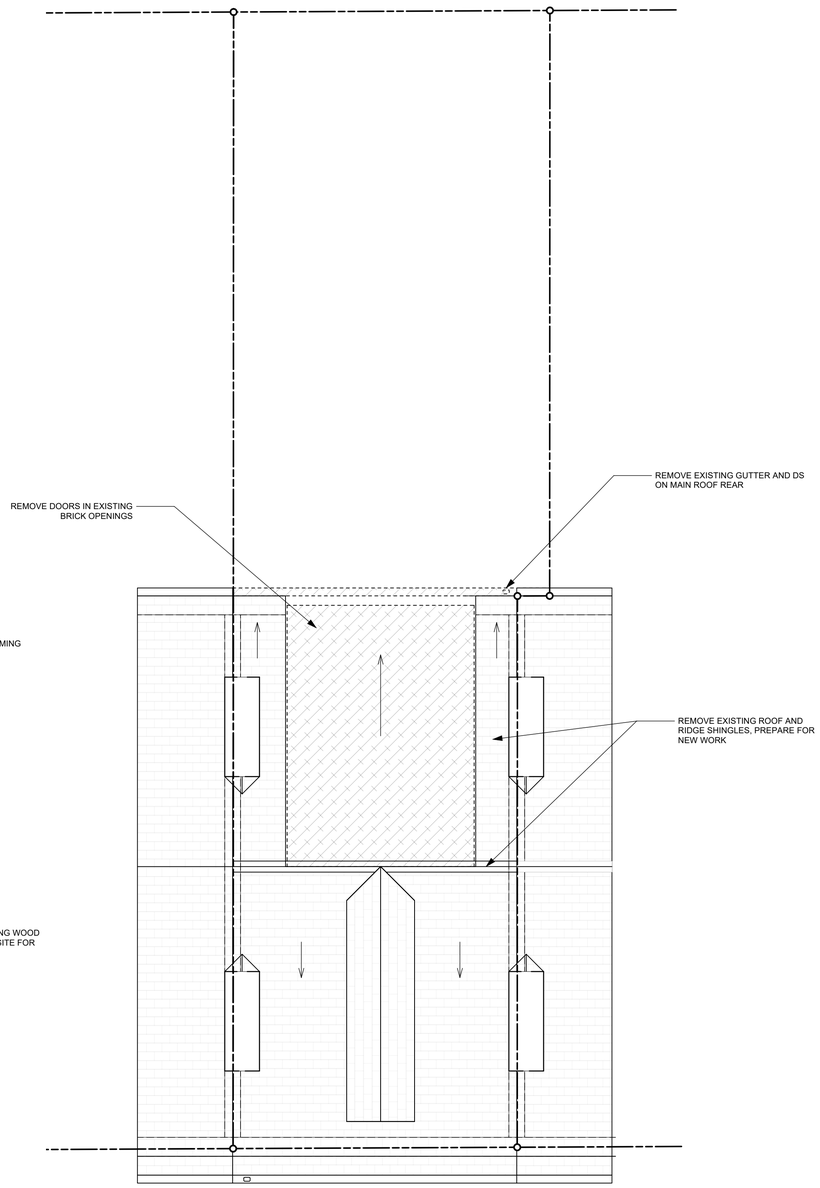
N

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # EX1
		SCALE 1/4" = 1'-0"	
DWG	EXISTING / DEMO PLANS 1	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com



1 EXISTING AND DEMO THIRD FLOOR PLAN
Scale: 1/4" = 1'-0"



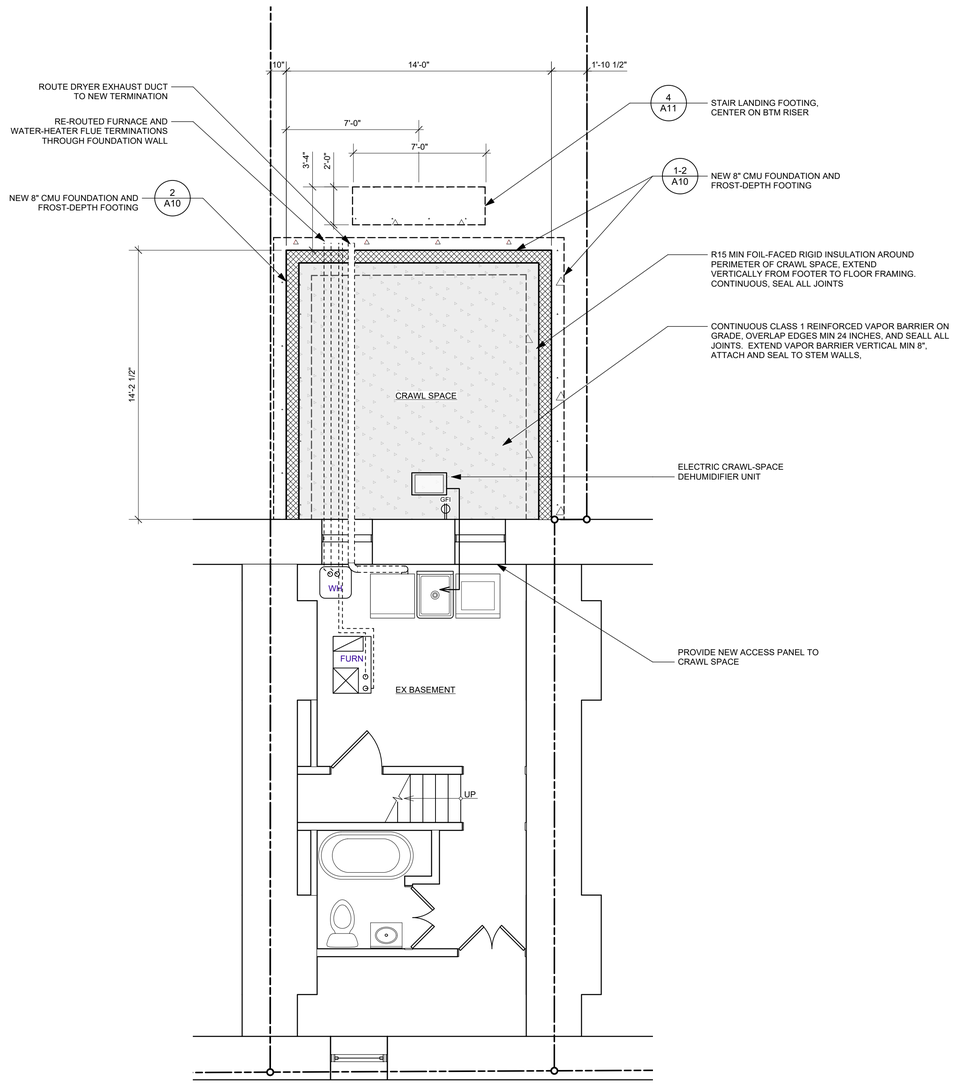
2 EXISTING AND DEMO ROOF PLAN
Scale: 1/4" = 1'-0"

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

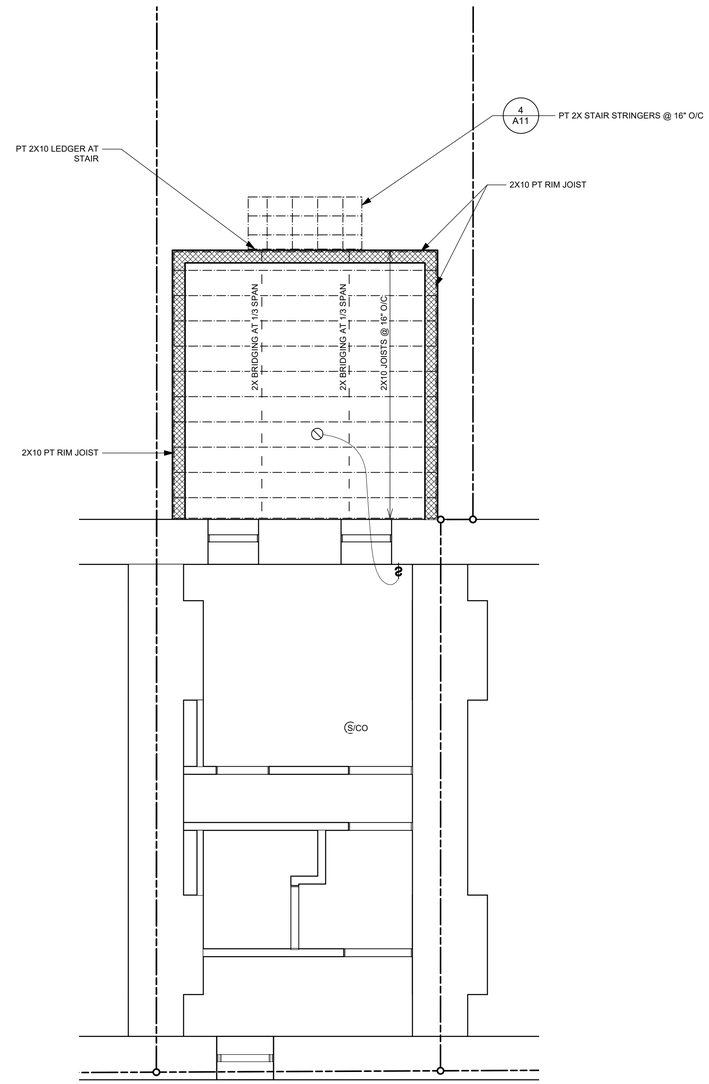
N

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # EX2
DWG	EXISTING / DEMO PLANS 2	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com



1 PROPOSED BASEMENT / FOUNDATION FLOOR PLAN
Scale: 1/4" = 1'-0"

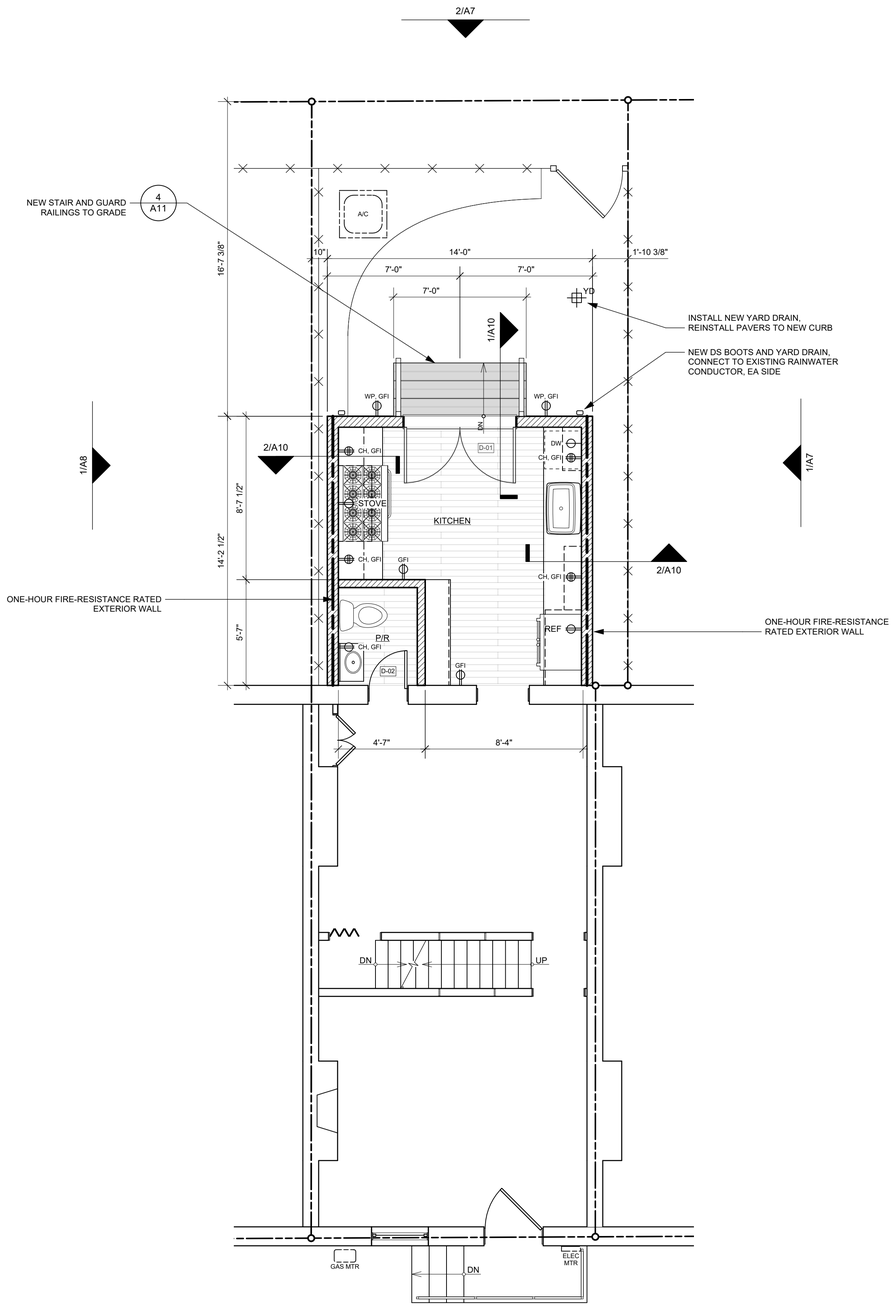


2 ADDITION BASEMENT CEILING / FIRST FLOOR FRAMING PLAN
Scale: 1/4" = 1'-0"

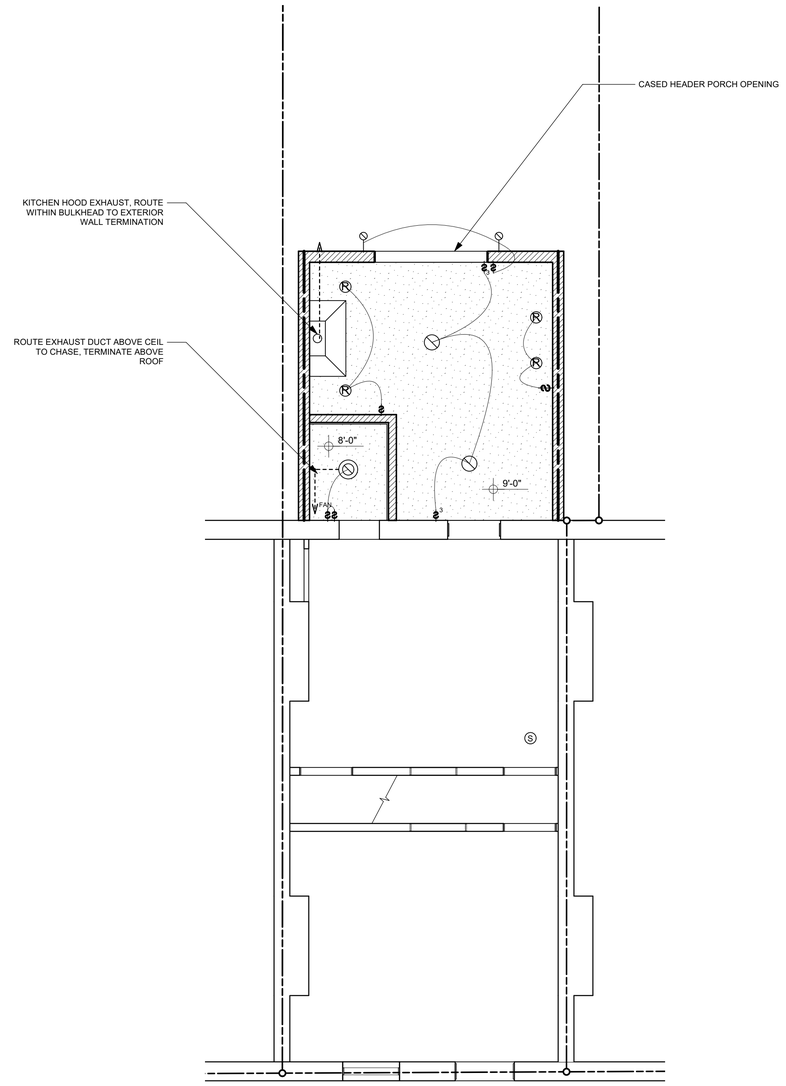
N

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A1
DWG	BSMT/ FOUNDATION PLANS	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com



1 PROPOSED ADDITION FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"



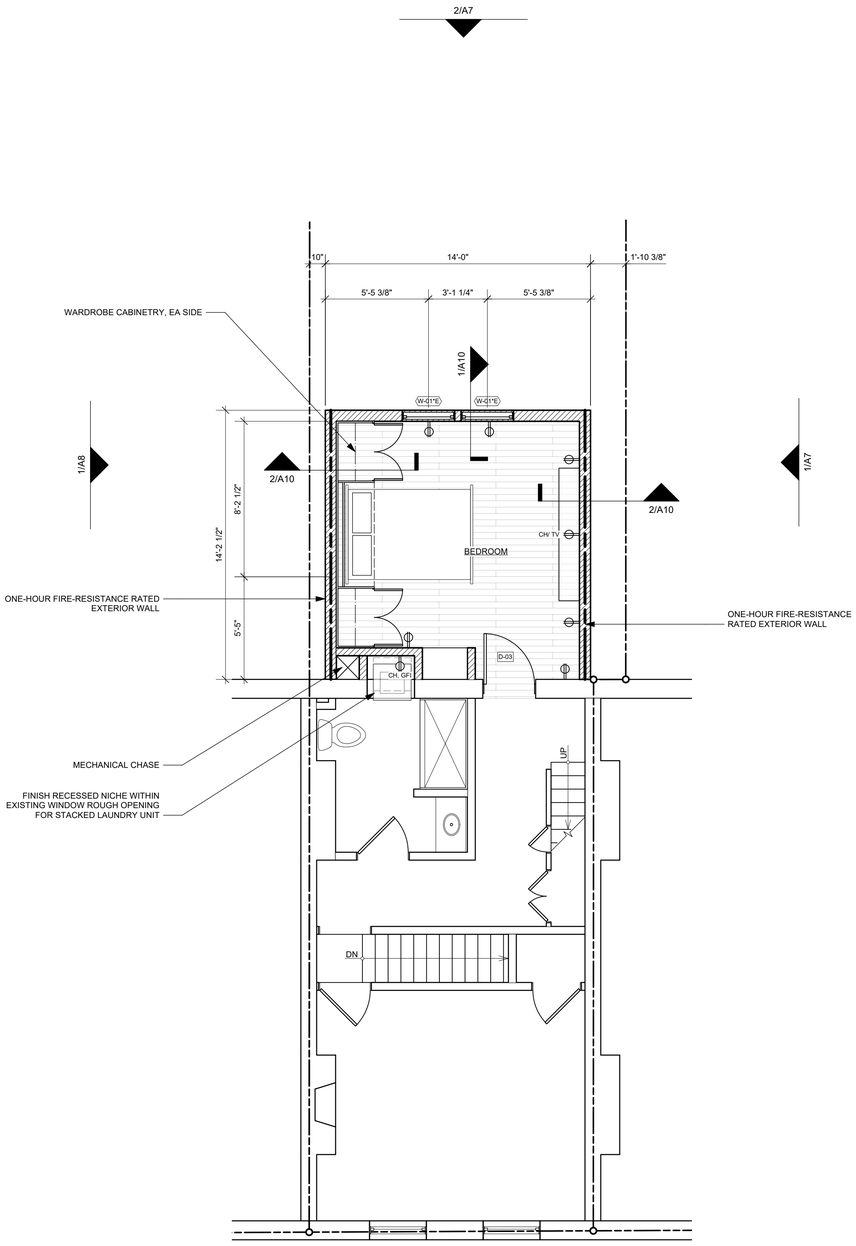
2 REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
ERIK ARTHUR HARLESS
RA016827

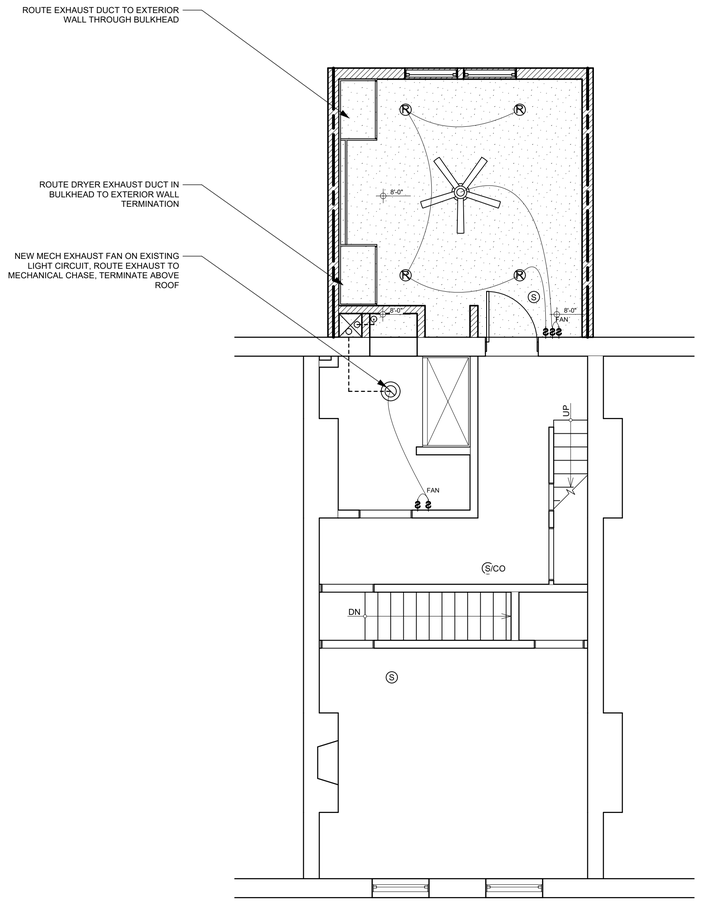
N

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A2
DWG	FIRST FLOOR PLANS	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com



1 PROPOSED ADDITION SECOND FLOOR PLAN
Scale: 1/4" = 1'-0"

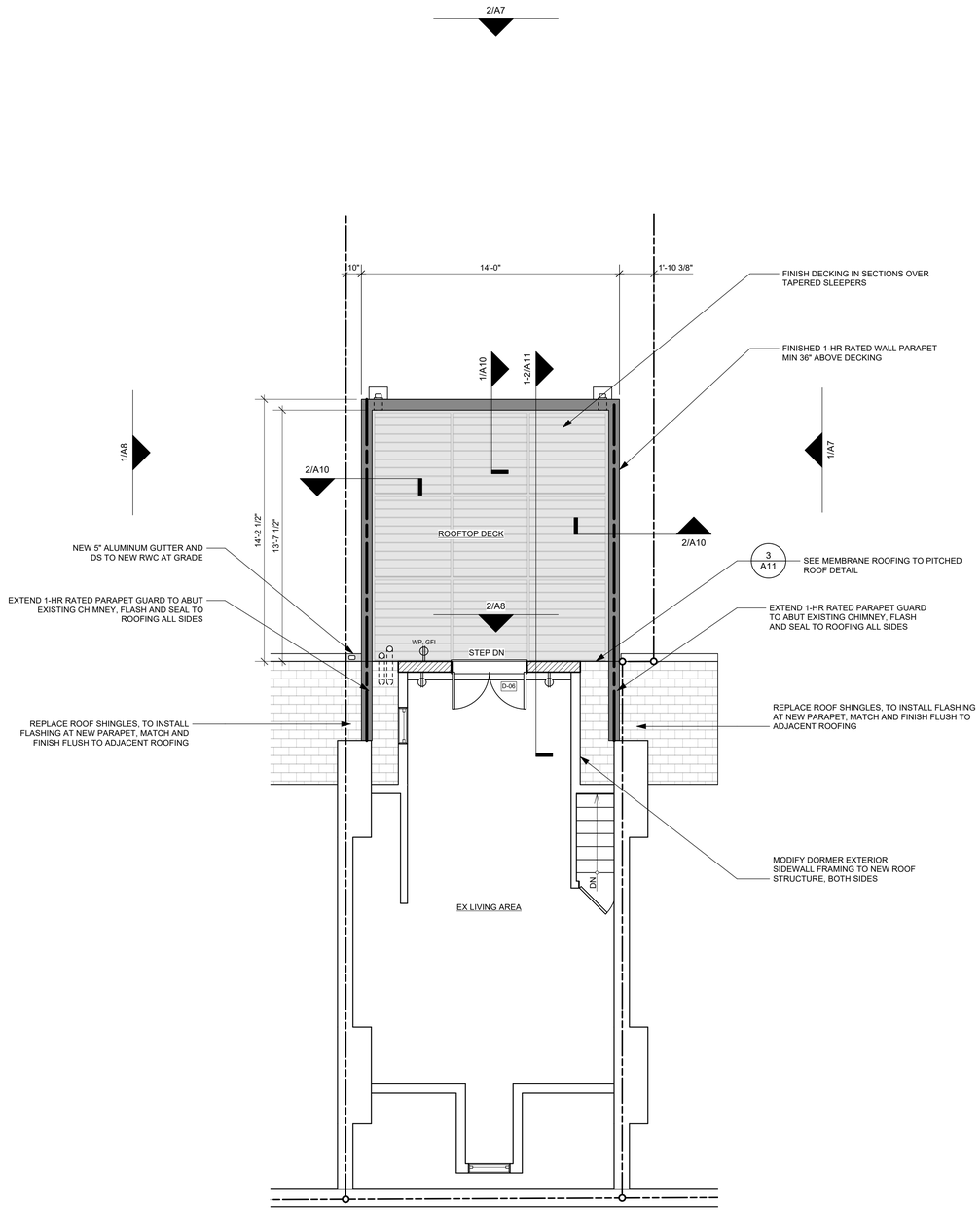


2 REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

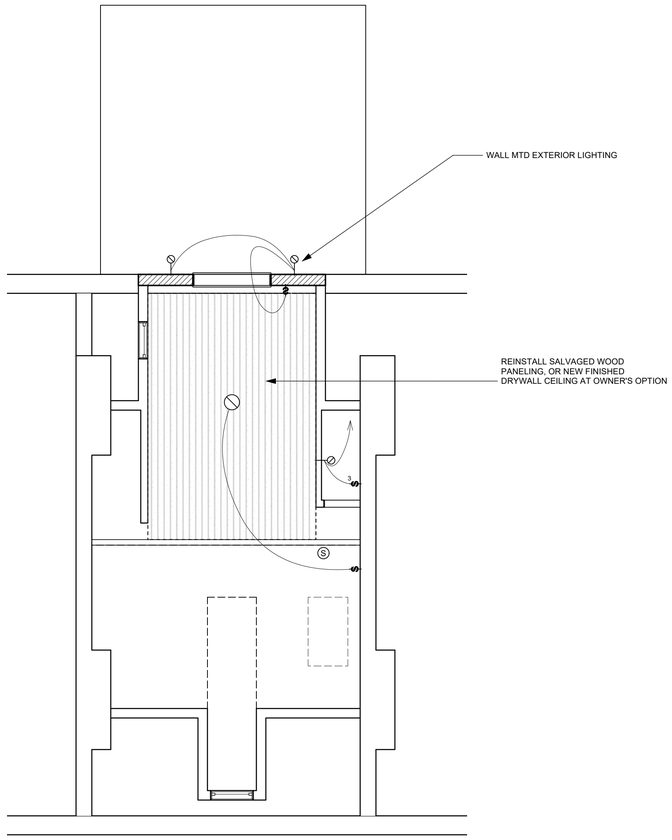
REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
ERIK ARTHUR HARLESS
RA016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A3
		SCALE 1/4" = 1'-0"	
DWG	SECOND FLOOR PLANS	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com



1 PROPOSED THIRD FLOOR PLAN
Scale: 1/4" = 1'-0"

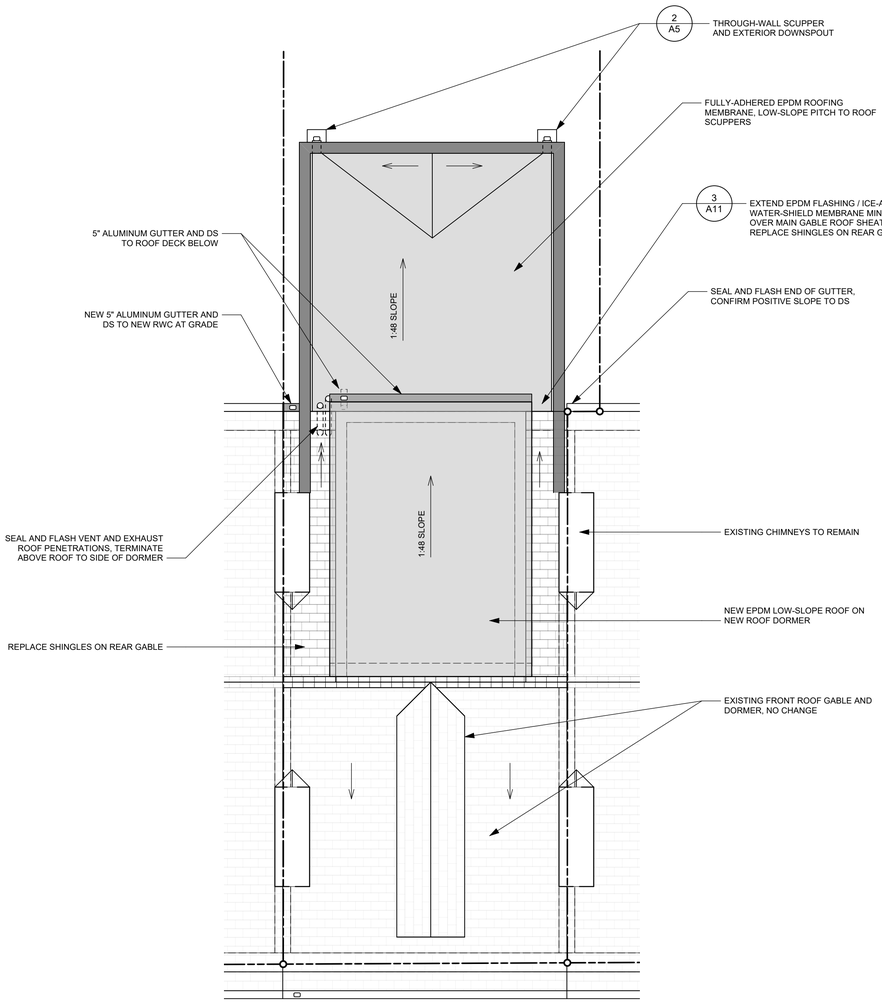


2 THIRD FLOOR REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

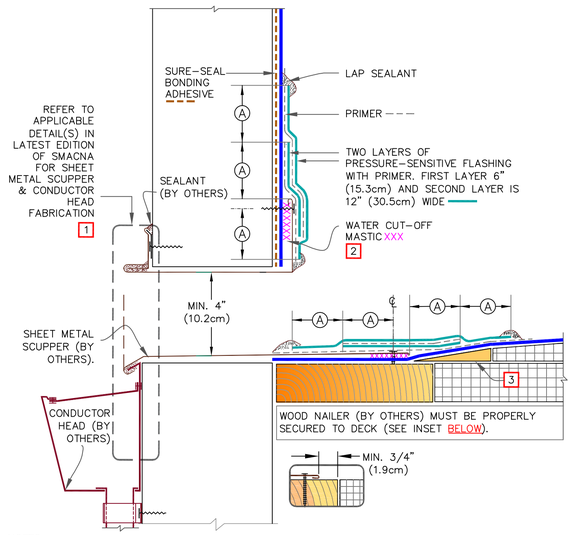
REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A4
DWG	THIRD FLOOR PLANS	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com



1 PROPOSED ROOF PLAN
Scale: 1/4" = 1'-0"



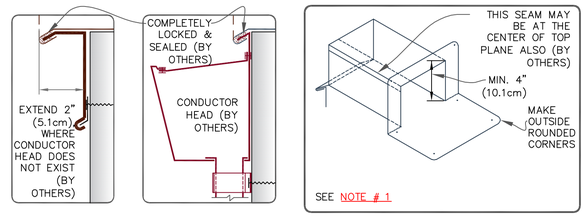
NOTES:

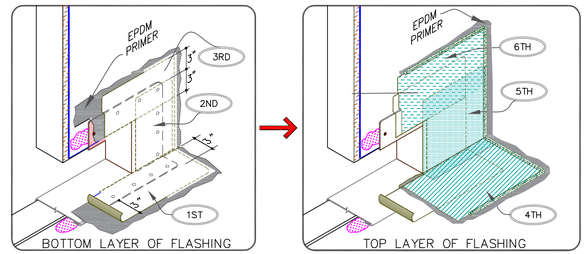
1. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS, SOLDER ALL SCUPPER SEAMS AIR & WATER-TIGHT.
2. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGES MUST BE UNDER CONSTANT COMPRESSION.
3. TAPERED EDGE STRIP BY HUNTER OR CANT STRIP, AS REQUIRED & SET IN ADHESIVE OR SHAVE THE EDGES OF TAPERED INSULATION.

DIMENSIONS	cm	
(A) 2"	5	MIN.
(B) 3"	7.6	MIN.

CARLISLE SYNTEC SYSTEMS	SCUPPER: DOUBLE LAYERS FLASHING PAGE 1 OF 2	DETAIL NO. U-18A.1
	MAXIMUM WARRANTY: 30 YEARS	U (UNIVERSAL DETAIL)

2 THROUGH-WALL SCUPPER REFERENCE DETAILS - BASIS OF DESIGN
Scale: Actual Size



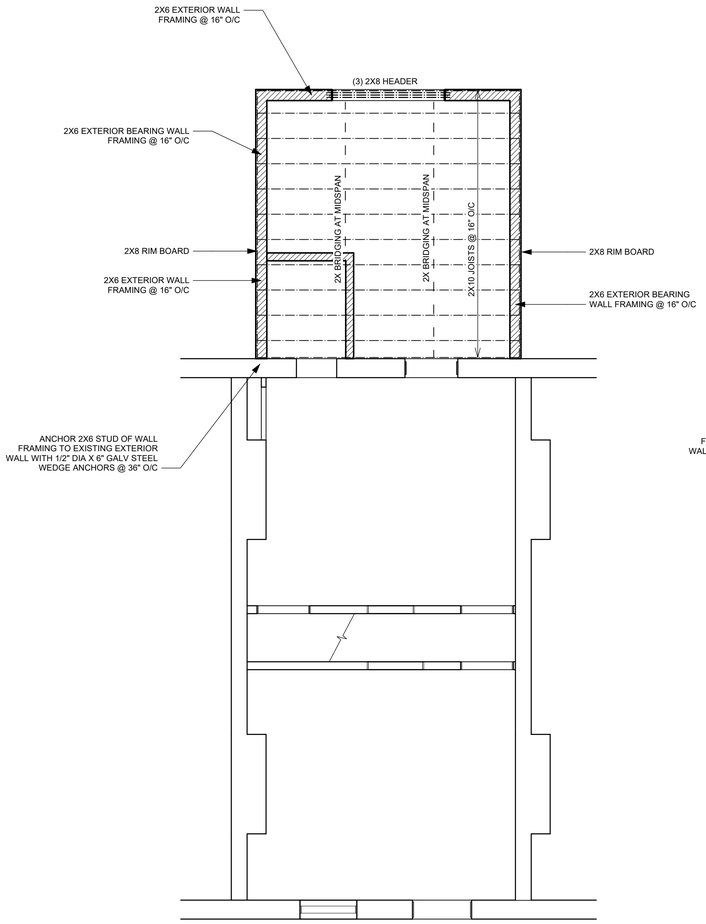


CARLISLE SYNTEC SYSTEMS	SCUPPER: DOUBLE LAYERS FLASHING PAGE 2 OF 2	DETAIL NO. U-18A.1
	MAXIMUM WARRANTY: 30 YEARS	U (UNIVERSAL DETAIL)

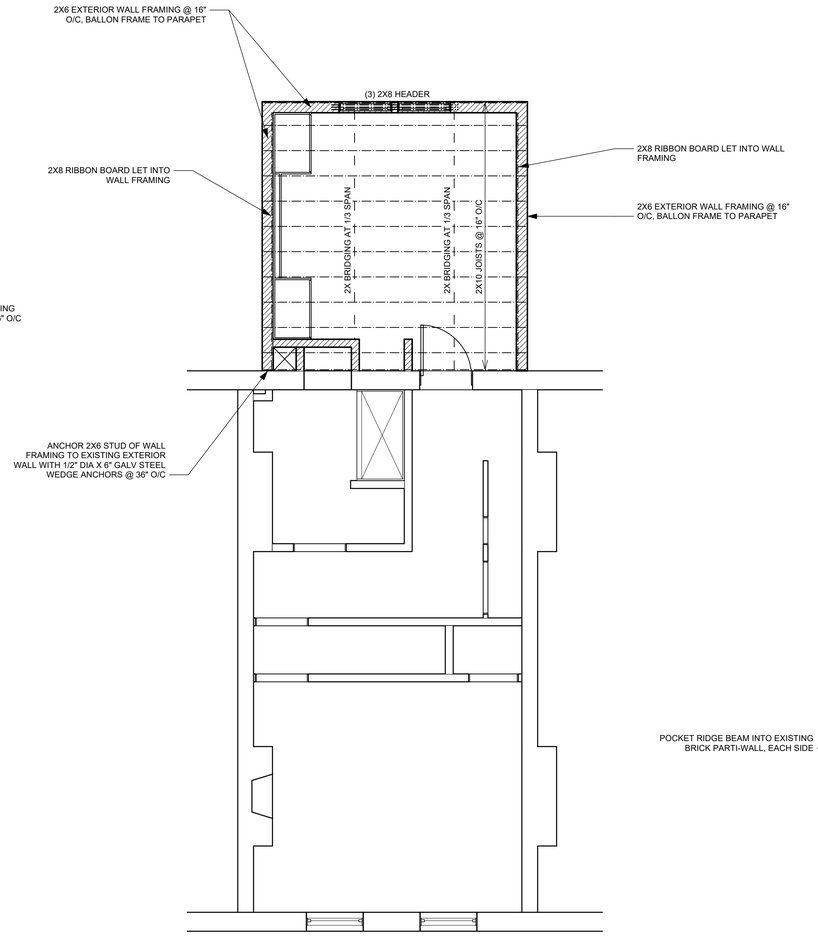
REGISTERED ARCHITECT PENNSYLVANIA
ERIK ARTHUR HARLESS
016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A5
DWG	ROOF PLAN	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

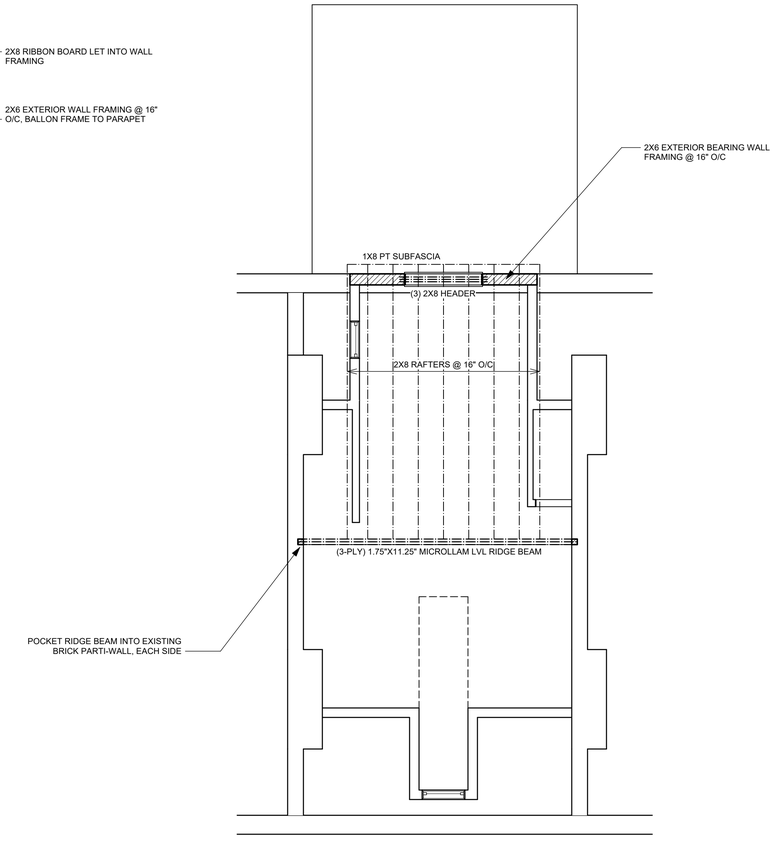
Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t:** 412.431.5911 **e:** erik.harless@zoho.com



1 PROPOSED ADDITION SECOND FLOOR FRAMING PLAN
Scale: 1/4" = 1'-0"



2 PROPOSED ADDITION ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"



3 PROPOSED ADDITION ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"

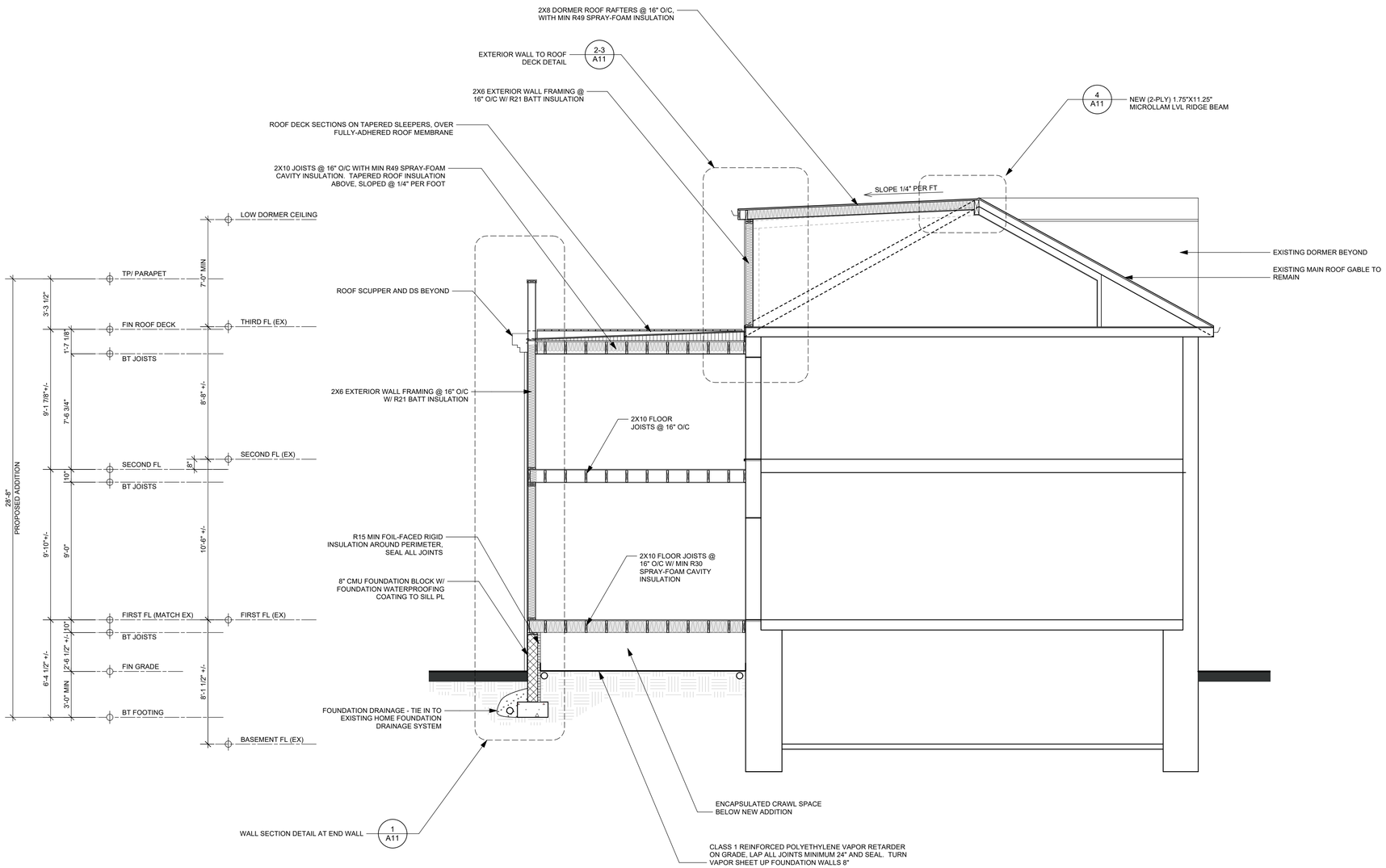
* NOTE: SEE PROPOSED ADDITION FIRST FLOOR FRAMING AT BASEMENT CEILING PLAN #2 ON SHEET A1

REGISTERED ARCHITECT PENNSYLVANIA ERIK ARTHUR HARLESS RA016827

N

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A6
		SCALE 1/4" = 1'-0"	
DWG	FRAMING PLANS	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

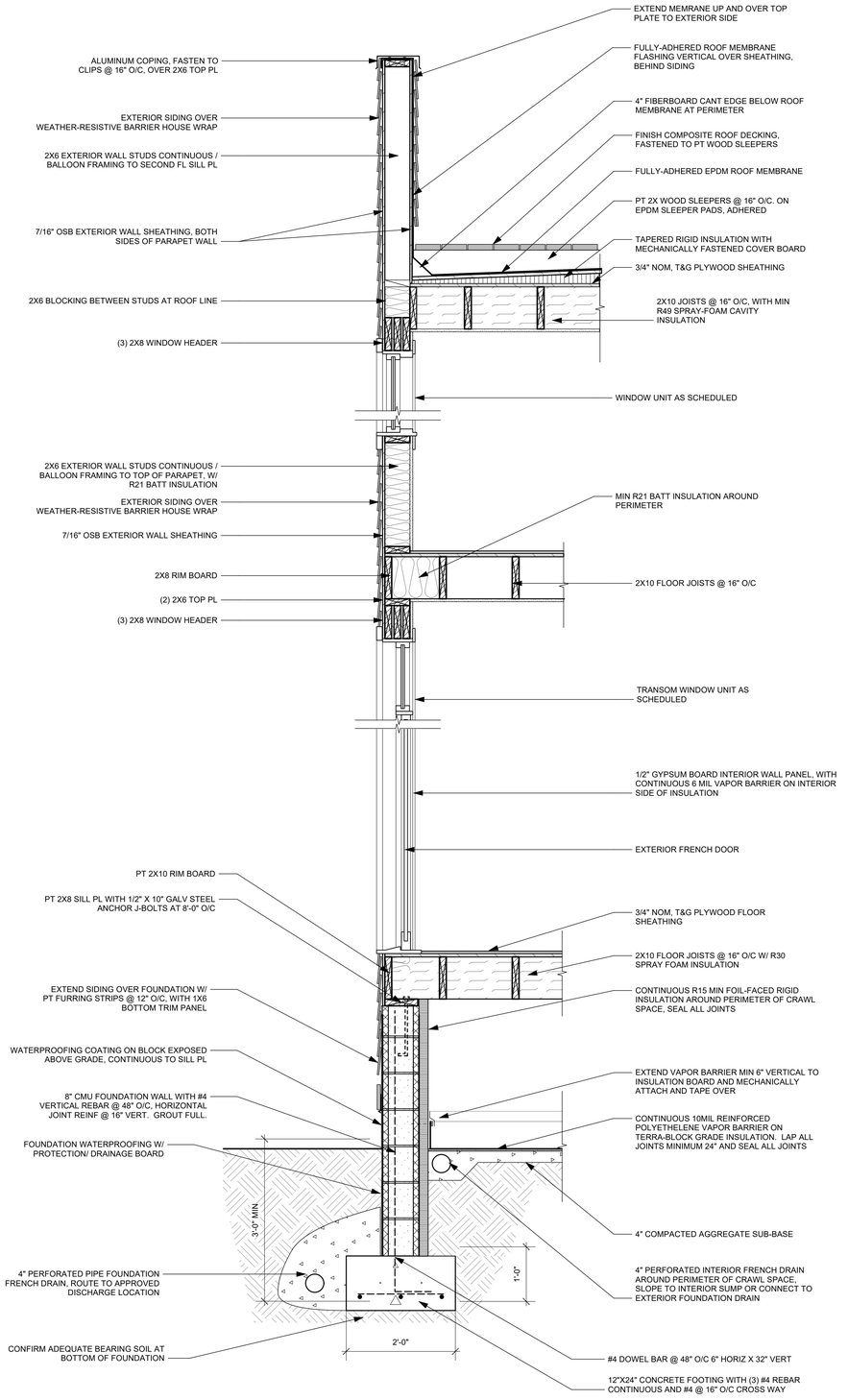


1 BUILDING SECTION - E-W THROUGH ADDITION
Scale: 1/4" = 1'-0"

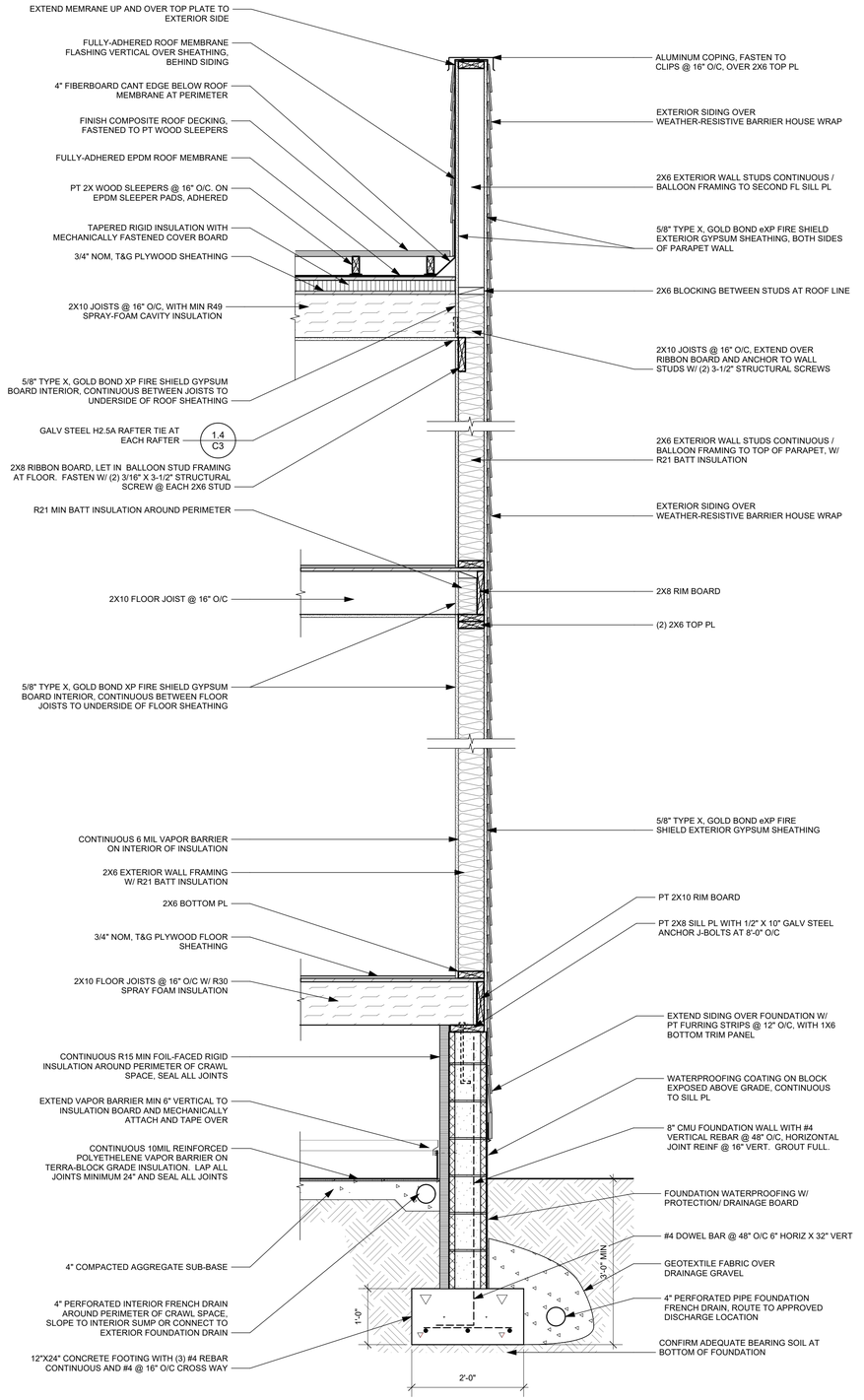
REGISTERED ARCHITECT · PENNSYLVANIA · ERIK ARTHUR HARLESS · 016827

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A9
DWG	BUILDING SECTION	SCALE 1/4" = 1'-0"	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com



1 WALL SECTION- EXTERIOR END WALL
Scale: 3/4" = 1'-0"



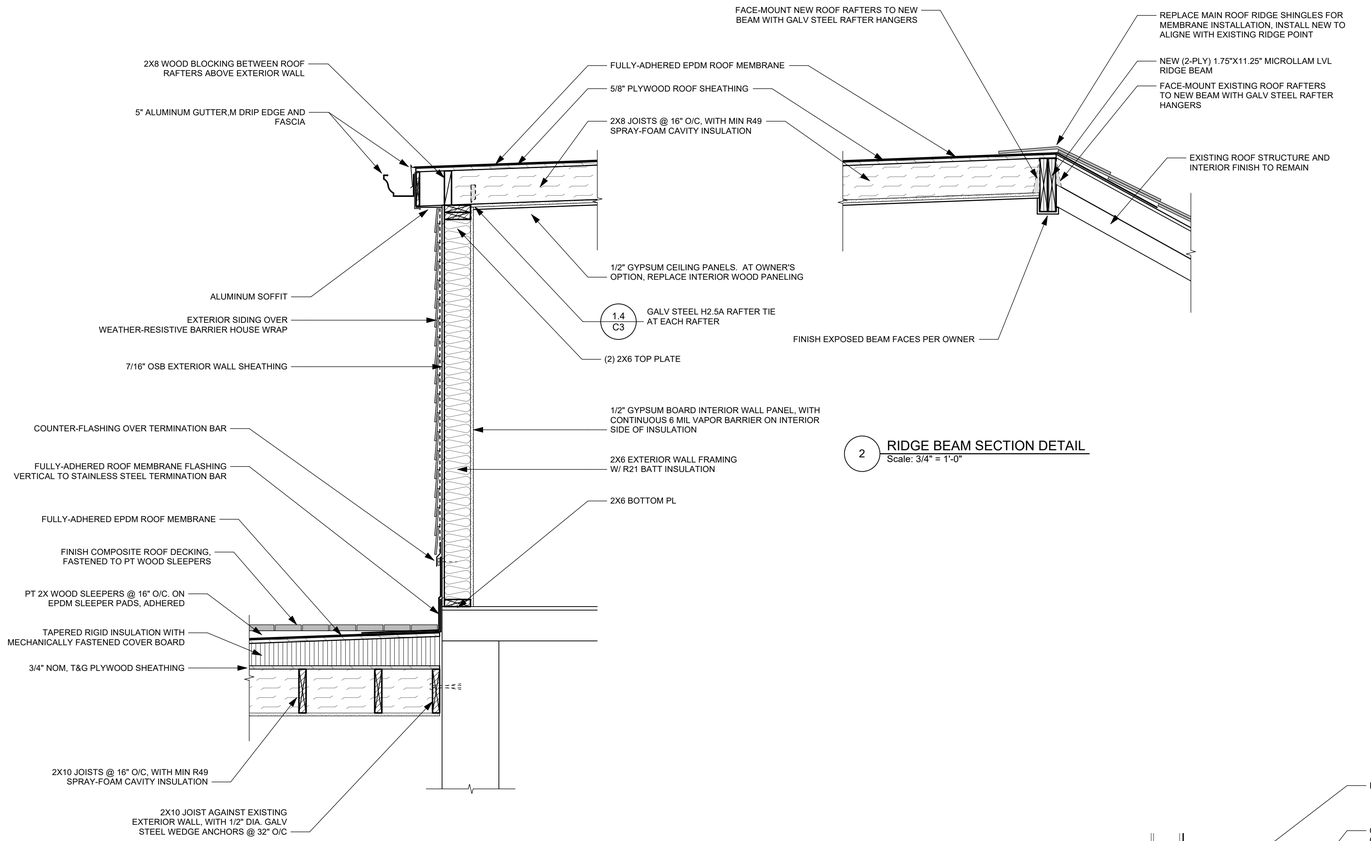
2 WALL SECTION- EXTERIOR 1-HOUR
Scale: 3/4" = 1'-0"

UL DESIGN NO. U-305
1-HOUR FIRE-RESISTANCE-RATED EXTERIOR WALL RATED FOR EXPOSURE FROM BOTH SIDES

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
ERIK ANTHONY HARLESS
RA016827

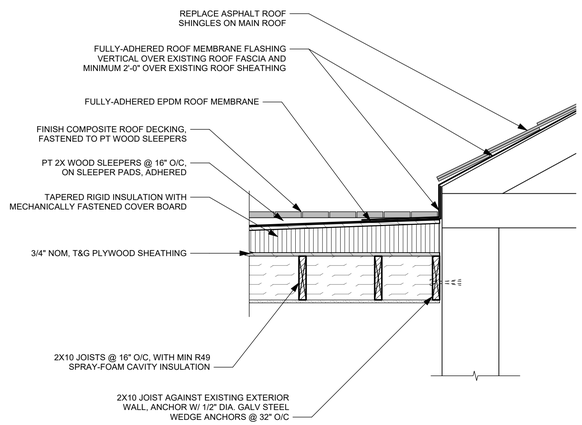
PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A10
DWG	WALL SECTIONS	SCALE AS NOTED	
		DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 **t**: 412.431.5911 **e**: erik.harless@zoho.com

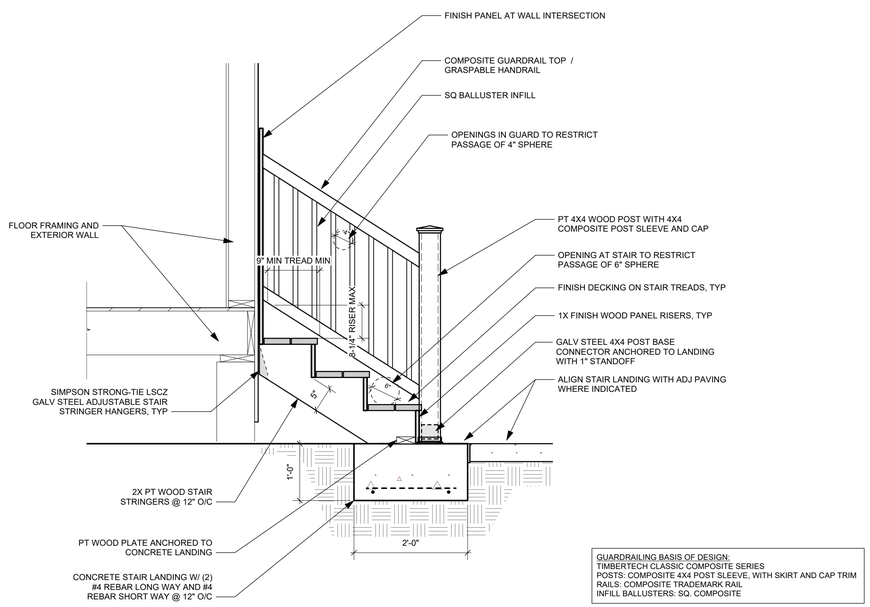


2 RIDGE BEAM SECTION DETAIL
Scale: 3/4" = 1'-0"

1 WALL SECTION DETAIL AT NEW DORMER END WALL
Scale: 3/4" = 1'-0"



3 DETAIL SECTION - MAIN ROOF FLASHING AT NEW ROOF DECK
Scale: 3/4" = 1'-0"



GUARDRAILING BASIS OF DESIGN:
TIMBERTECH CLASSIC COMPOSITE SERIES
POSTS: COMPOSITE 4X4 POST SLEEVE, WITH SKIRT AND CAP TRIM
RAILS: COMPOSITE TRADEMARK RAIL
INFILL BALLUSTERS: SQ. COMPOSITE

4 TYPICAL DECK STAIR DETAIL
Scale: 3/4" = 1'-0"

PROJECT	1403 Sherman - Rear Addition & Renovations		PROJECT # HD2537
OWNER	Mark Roark, Matthew Lecornu	DATE # 3/1/2026	DWG # A11
		SCALE 3/4" = 1'-0"	
DWG	WALL SECTIONS / DETAILS	DRAWN EH	
		CHKD EH	REVISION

Erik Harless, PA Architect #016827
245 Ames St, Pittsburgh, PA 15214 t: 412.431.5911 e: erik.harless@zoho.com

Hardie® Artisan Lap Siding

SUBMITTAL FORM **07**

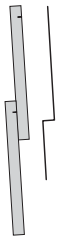
Submitted to: .....

Project Name: 1403 Sherman Ave - Addition

Submitted by: .....

Date: .....

Lap



☐ HZ10® Product Zone ☑ HZ5® Product Zone

Product Width: ☑ 7-¼ in ☐ 8-¼ in

Product Finish: ☑ Primed

Product Texture: ☑ Smooth

SPECIFICATION SHEET 07

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

Manufacturer

James Hardie Building Products Inc.

The products are manufactured at the following locations, with quality control inspections by Intertek:

- Reno, Nevada
- Prattville, AL

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

- Noncombustible
- Dimensionally Stable
- Resistant to damage caused by pests
- Weather Resistant-Engineered for Climate®
- Impact resistant

Use

Hardie® Artisan Lap Siding is used as exterior wall covering.
The product complies with IBC Section 1403.9 and IRC Section R703.10.
The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC).

Description

Hardie® Artisan Lap Siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Artisan Siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (inches)	Length (feet)	Thickness (inches)
Lap	7-¼, 8-¼	12	5/8

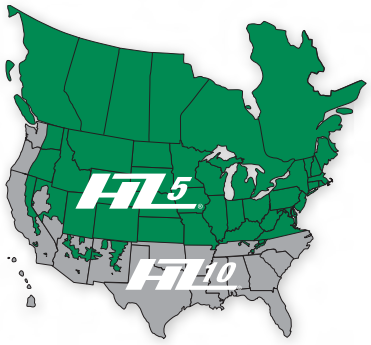
Panel Texture & Finish

Hardie® Artisan Lap Siding comes in a smooth finish.

Finish comes primed for field paint.

Engineered for Climate®

Hardie® Artisan Lap Siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.05 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft^3	ASTM C1185		As reported	<75
	Water Tightness	ASTM C1185	Visual Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
			Equilibrium conditioned, psi	>1450 psi	
DURABILITY	Warm Water Resistance, Observations	ASTM C1185	Visual Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Visual Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Visual Observations	No visible cracks or structural alteration	Pass
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Visual Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
			International Building Code® class		A
	Non-combustibility	ASTM E136	Non-combustible	Pass/fail	Pass

Installation

Install Hardie® Artisan Lap Siding products in accordance with:

- Hardie® Artisan Lap Siding Installation Instructions
- ICC-ES ESR-2290
- Requirements of local authorities having jurisdiction

Warranty

Hardie® Artisan Lap Siding: 30-year, Non-Prorated, Limited Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Materials Compliant

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800) 426-4051

Hardie® Trim

Submittal Form 09

Project Name: 1403 Sherman Ave - Addition ..... **Date:** .....

Submitted to: ..... **Submitted by:** .....

Product:	☐ ColorPlus® Technology finish ☑ Primed for Paint
Zone:	☑ HZ5® ☐ HZ10®
Texture:	☑ Smooth ☐ Roughsawn ☐ Rustic Grain
Width:	☐ 2.5 in. ☑ 3.5 in. ☐ 4.5 in. ☑ 5.5 in. ☐ 7.25 in. ☐ 9.25 in. ☐ 11.25 in.
Length:	☐ 12 ft.
Thickness:	☐ 3/4 in. ☐ 1 in. ☑ 1.5 in.

Hardie® Trim

Specification Sheet 09

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® TRIM

Manufacturer

James Hardie Building Products Inc.

The products are manufactured at the following locations, which receive regular quality control inspections by ICC-ES.

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Prattville, Alabama
- Peru, Illinois

For more information about compliances, refer to Intertek Spec ID# 39758.

Features

- Class-A Fire Rated
- Flood Damage Resistant
- Dimensionally Stable
- Resists damage from pests
- Zero Flame Spread
- Engineered for Climate®
- Weather Resistant
- Impact resistant
- Sustainable

Use

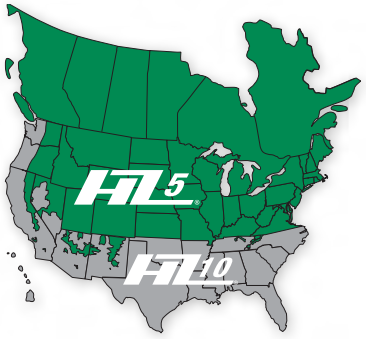
Hardie® fiber cement trim is used as an exterior wall accessory. The product complies with 2024 IBC Section 1403.9; 2018, 2021 IBC Section 1403.10; 2012, 2015 IBC Section 1404.10.

Description

Made from durable fiber cement, Hardie® Trim comes in a variety of textures and are available primed and ready for paint, or pre-finished with ColorPlus® Technology, providing the perfect finishing touch to your project. Hardie® Trim complies with ASTM C1186, Type A; and Class A Fire Rated per ASTM E84, with a flame spread index / smoke developed index of less than 0/5.

Engineered for Climate®

Hardie® Trim is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	For 3/4 in, ± 0.06 in. For greater than 3/4 in, ±10%.	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft^3	ASTM C1185		As reported	70
	Water Absorption, % by mass	ASTM C1185		As reported	≤ 40.2
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>580 psi	Pass
			Equilibrium conditioned, psi	>580 psi	
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
			International Building Code® class		A

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Trim in accordance with:

- Hardie® Trim installation instructions
- Requirements of authorities having jursidiction

Warranty

Hardie® Trim: 30-year, Non-Prorated, Substrate Limited Warranty
ColorPlus® Technology finishes: 15-year, Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content - varies by project location
- Avoidance of certain chemicals

Detailed product information for LEED® projects, Environmental Product Declaration, or other state or regional sustainability programs is available through James Hardie Technical Services or JamesHardie.com.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services by phone at 1-888-J-HARDIE (1-888-542-7343).

MARVIN

TECHNICAL SPECIFICATIONS

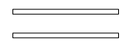
ULTIMATE

MARVIN SIGNATURE® COLLECTION

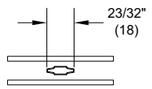
TABLE OF CONTENTS

PRODUCT OPTIONS

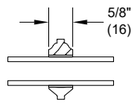
GLAZING PROFILES



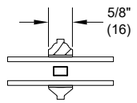
Insulating Glass



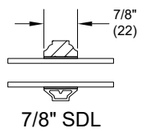
Aluminum 23/32"
Contour GBG



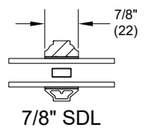
5/8" SDL



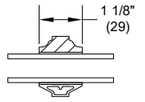
5/8" SDL
W/Spacer



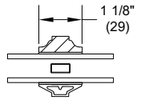
7/8" SDL



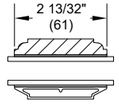
7/8" SDL
W/Spacer Bar



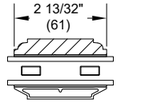
1 1/8" SDL



1 1/8" SDL
W/Spacer Bar



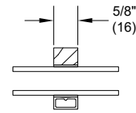
2 13/32" SDL



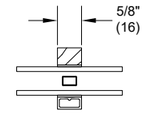
2 13/32" SDL
W/Two Spacer Bars

PRODUCT OPTIONS

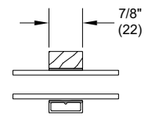
GLAZING PROFILES SQUARE STICKING



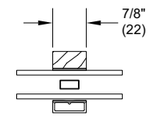
5/8" SDL



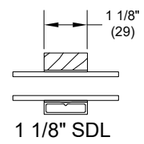
5/8" SDL
W/Spacer



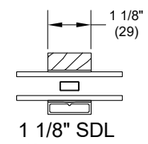
7/8" SDL



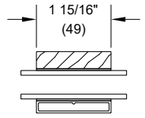
7/8" SDL
W/Spacer Bar



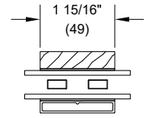
1 1/8" SDL



1 1/8" SDL
W/Spacer Bar



1 15/16 " SDL



1 15/16" SDL
W/Two Spacer Bars

* For additional ADL profiles consult with your local Marvin representative.

DOUBLE HUNG G2

MO (mm)	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-1 3/4 (1264)	4-5 3/4 (1365)	4-11 3/4 (1518)	5-5 3/4 (1670)
RO (mm)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	5-6 1/4 (1683)
FS (mm)	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-1 1/4 (1251)	4-5 1/4 (1353)	4-11 1/4 (1505)	5-5 1/4 (1657)
DLO (mm)	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	42 47/64 (1085)	46 47/64 (984)	52 47/64 (984)	58 47/64 (1492)
2-7 3/4 (806) 2-8 (813) 2-7 1/2 (800) 10 3/4 (273)	UDHG2 3212	UDHG2 3612	UDHG2 4012	UDHG2 4412	UDHG2 4812	UDHG2 5412	UDHG2 6012
2-11 3/4 (908) 3-0(914) 2-11 1/2 (902) 12 3/4 (324)	UDHG2 3214	UDHG2 3614	UDHG2 4014	UDHG2 4414	UDHG2 4814	UDHG2 5414	UDHG2 6014
3-3 3/4 (1010) 3-4 (1016) 3-3 1/2 (1003) 14 3/4 (375)	UDHG2 3216	UDHG2 3616	UDHG2 4016	UDHG2 4416	UDHG2 4816	UDHG2 5416	UDHG2 6016
3-7 3/4 (1111) 3-8 (1118) 3-7 1/2 (1105) 16 3/4 (425)	UDHG2 3218	UDHG2 3618	UDHG2 4018	UDHG2 4418	UDHG2 4818	UDHG2 5418	UDHG2 6018
3-11 3/4 (1213) 4-0 (1219) 3-11 1/2 (1207) 18 3/4 (476)	UDHG2 3220	UDHG2 3620	UDHG2 4020	UDHG2 4420	UDHG2 4820	UDHG2 5420	UDHG2 6020
4-3 3/4 (1314) 4-4 (1321) 4-3 1/2 (1308) 20 3/4 (527)	UDHG2 3222	UDHG2 3622	UDHG2 4022	UDHG2 4422	UDHG2 4822	UDHG2 5422	UDHG2 6022
4-7 3/4 (1416) 4-8 (1422) 4-7 1/2 (1410) 22 3/4 (578)	UDHG2 3224	UDHG2 3624	UDHG2 4024	UDHG2 4424	UDHG2 4824	UDHG2 5424	UDHG2 6024
4-11 3/4 (1518) 5-0 (1524) 4-11 1/2 (1511) 24 3/4 (629)	UDHG2 3226 E	UDHG2 3626 E	UDHG2 4026 E	UDHG2 4426 E	UDHG2 4826 E	UDHG2 5426 E	UDHG2 6026 E
5-3 3/4 (1619) 5-4 (1626) 5-3 1/2 (1613) 26 3/4 (679)	UDHG2 3228 E	UDHG2 3628 E	UDHG2 4028 E	UDHG2 4428 E	UDHG2 4828 E	UDHG2 5428 E	UDHG2 6028 E

DOUBLE HUNG G2

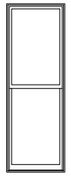
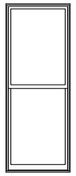
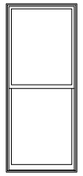
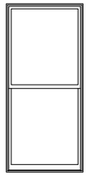
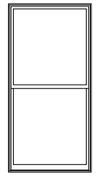
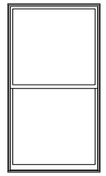
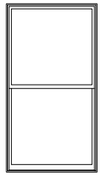
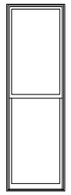
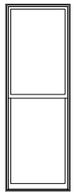
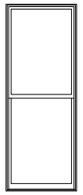
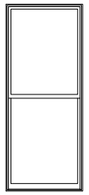
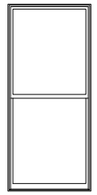
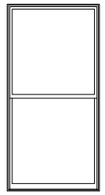
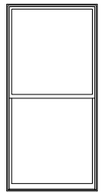
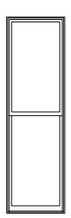
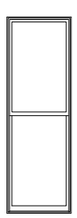
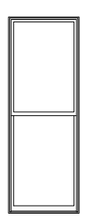
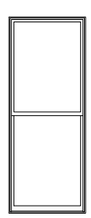
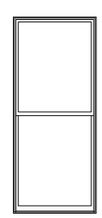
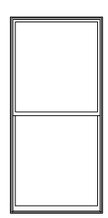
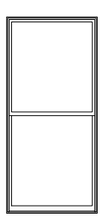
MO (mm)	1-9 3/4 (552)	2-1 3/4 (654)	2-5 3/4 (756)	2-7 3/4 (806)	2-9 3/4 (857)	2-11 3/4 (908)
RO (mm)	1-10 1/4 (565)	2-2 1/4 (667)	2-6 1/4 (768)	2-8 1/4 (819)	2-10 1/4 (870)	3-0 1/4 (921)
FS (mm)	1-9 1/4 (540)	2-1 1/4 (641)	2-5 1/4 (743)	2-7 1/4 (794)	2-9 1/4 (845)	2-11 1/4 (895)
DLO (mm)	14 47/64 (347)	18 47/64 (476)	22 47/64 (577)	24 47/64 (628)	26 47/64 (679)	28 47/64 (730)
5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 28 3/4 (730)	UDHG2 1630	UDHG2 2030	UDHG2 2430	UDHG2 2630	UDHG2 2830 E	UDHG2 3030 E
5-11 3/4 (1822) 6-0 (1829) 5-11 1/2 (1816) 30 3/4 (781)	UDHG2 1632	UDHG2 2032	UDHG2 2432	UDHG2 2632 E	UDHG2 2832 E	UDHG2 3032 E
6-3 3/4 (1924) 6-4 (1930) 6-3 1/2 (1918) 32 3/4 (832)	UDHG2 1634	UDHG2 2034	UDHG2 2434 E	UDHG2 2634 E	UDHG2 2834 E	UDHG2 3034 E
6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 34 3/4 (883)	UDHG2 1636	UDHG2 2036	UDHG2 2436 E	UDHG2 2636 E	UDHG2 2836 E	UDHG2 3036 E
7-3 3/4 (2229) 7-4 (2235) 7-3 1/2 (2223) 38 3/4 (984)	UDHG2 1640	UDHG2 2040	UDHG2 2440 E	UDHG2 2640 E	UDHG2 2840 E	UDHG2 3040 E
7-7 3/4 (2330) 7-8 (2337) 7-7 1/2 (2324) 40 3/4 (1035)	UDHG2 1642	UDHG2 2042	UDHG2 2442 E	UDHG2 2642 E	UDHG2 2842 E	UDHG2 3042 E

Details and Elevations not to scale.
E These windows meet national Egress codes for fire evacuation. Local codes may differ.

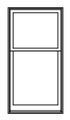
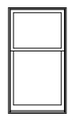
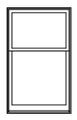
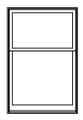
Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

DOUBLE HUNG G2

MO (mm)	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)	4-1 3/4 (1264)	4-5 3/4 (1365)	4-11 3/4 (1518)	5-5 3/4 (1670)
RO (mm)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)	4-2 1/4 (1276)	4-6 1/4 (1378)	5-0 1/4 (1530)	5-6 1/4 (1683)
FS (mm)	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)	4-1 1/4 (1251)	4-5 1/4 (1353)	4-11 1/4 (1505)	5-5 1/4 (1657)
DLO (mm)	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)	42 47/64 (1085)	46 47/64 (984)	52 47/64 (984)	58 47/64 (1492)
8-11 3/4 (2737) 9-0 (2743) 8-11 1/2 (2731) 48 3/4 (1238)	 UDHG2 3250 E	 UDHG2 3650 E	 UDHG2 4050 E	 UDHG2 4450 E	 UDHG2 4850 E	 UDHG2 5450 E	 UDHG2 6050 E
9-11 3/4 (3042) 10-0 (3048) 9-11 1/2 (3035) 54 3/4 (1391)	 UDHG2 3256 E	 UDHG2 3656 E	 UDHG2 4056 E	 UDHG2 4456 E	 UDHG2 4856 E	 UDHG2 5456 E	 UDHG2 6056 E
10-7 3/4 (3245) 10-8 (3251) 10-7 1/2 (3239) 58 3/4 (1492)	 UDHG2 3260 E	 UDHG2 3660 E	 UDHG2 4060 E	 UDHG2 4460 E	 UDHG2 4860 E	 UDHG2 5460	 UDHG2 6060 E

COTTAGE STYLE*

MO (mm)	2-11 3/4 (908)	3-1 3/4 (959)	3-5 3/4 (1060)	3-9 3/4 (1162)
RO (mm)	3-0 1/4 (921)	3-2 1/4 (972)	3-6 1/4 (1073)	3-10 1/4 (1175)
FS (mm)	2-11 1/4 (895)	3-1 1/4 (946)	3-5 1/4 (1048)	3-9 1/4 (1149)
DLO (mm)	28 47/64 (730)	30 47/64 (781)	34 47/64 (882)	38 47/64 (984)
5-7 3/4 (1721) 5-8 (1727) 5-7 1/2 (1715) 22 3/4 (578)/34 3/4 (883)	 UDHG2 3024/36	 UDHG2 3224/36	 UDHG2 3624/36	 UDHG2 4024/36

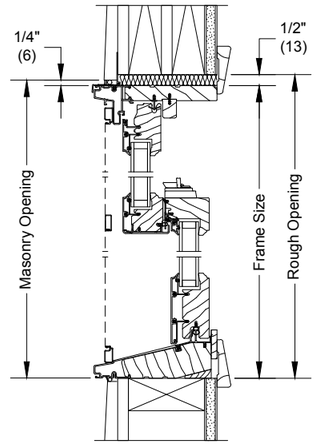
Details and Elevations not to scale.
E These windows meet national Egress codes for fire evacuation. Local codes may differ.
* Cottage Formula:

1. Select the standard size double hung that will fit the rough opening
2. Subtract 7 ½" (191) from the frame size height to get total glass height
3. Multiply the total glass height by the desired top sash ratio, this is the top sash glass height
4. Subtract the top sash height from the total glass height, this is the bottom sash glass height

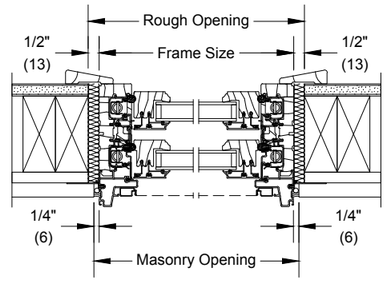
Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

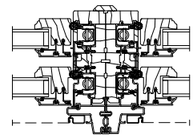
DOUBLE HUNG G2



Head Jamb & Sill



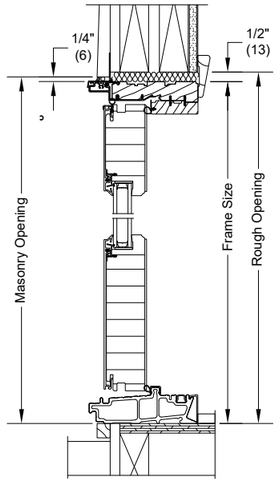
Jamb



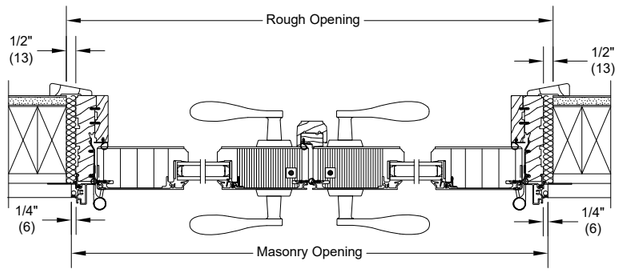
Vertical mullion

OUTSWING FRENCH DOOR G2

CONSTRUCTION DETAILS

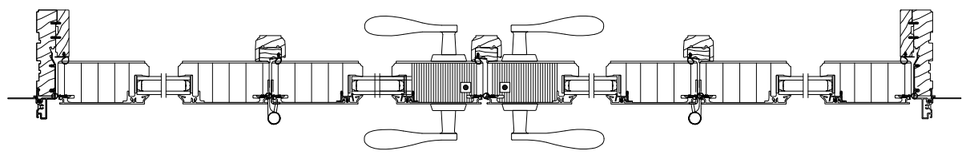


6 9/16" HEAD JAMB AND SILL



2 PANEL JAMB XX LH

3 PANEL JAMB OXO LH



4 PANEL JAMB OXXO LH

ULTIMATE INSWING / OUTSWING DOOR (3" STILES)

SIZE CHART

Standard Inswing and Outswing Unit Measurements Width																	
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
1 Panel	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-11 1/2	(292)	12 3/4	(324)
	2-6R	2-7 1/8	(791)	2-7 5/8	(803)	2-6 5/8	(778)	2-4 1/4	(718)	1-10 9/32	(566)	23 17/32	(598)
	3-0R	3-1 1/8	(943)	3-1 5/8	(956)	3-0 5/8	(930)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(00)
2 Panel	5-0R*	4-11 1/2	(1511)	5-0	(1524)	4-11	(1499)	2-4 1/4	(718)	1-10 9/32	(566)	23 17/32	(598)
	6-0R*	5-11 1/2	(1816)	6-0	(1829)	5-11	(1803)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
3 Panel	9-0R	8-9 7/8	(2689)	8-10 3/8	(2702)	8-9 3/8	(2677)	2-10 1/4	(870)	2-4 9/32	(718)	29 17/32	(750)
	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(669)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
4 Panel	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-5 3/32	(434)	18 11/32	(466)
	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-11 3/32	(587)	24 11/32	(618)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	2-1 3/32	(637)	26 11/32	(324)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-5 3/32	(739)	30 11/32	(771)
	14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-11 3/32	(891)	36 11/32	(923)
Height													
Unit Type	CN	Masonry Opening		Rough Opening		Frame Size		Panel OM		Daylight Std Opening		Standard Glass Size	
		ft - in	mm	ft - in	mm	ft - in	mm	ft-in	mm	ft - in	mm	in	mm
All Configurations	6-6R	6-7 3/4	(2026)	6-8	(2032)	6-7 1/2	(2019)	6-4 39/64	(1946)	5-10 41/64	(1619)	71 61/64	(1652)
	6-8	6-10 1/4	(2089)	6-10 1/2	(2096)	6-10	(2083)	6-7 7/64	(2009)	6-1 9/64	(1682)	74 29/64	(1716)
	7-0	7-2 1/4	(2191)	7-2 1/2	(2197)	7-2	(2184)	6-11 7/64	(2111)	6-5 9/64	(1784)	78 29/64	(1817)
	8-0	8-2 1/4	(2496)	8-2 1/2	(2502)	8-2	(2489)	7-11 7/64	(2416)	7-5 9/64	(2089)	90 29/64	(2122)
	9-0	9-2 1/4	(2800)	9-2 1/2	(2807)	9-2	(2794)	8-11 7/64	(2721)	8-5 9/64	(2394)	102 29/64	(2427)
	10-0	10-2 1/4	(3105)	10-2 1/2	(3112)	10-2	(3099)	9-11 7/64	(3025)	9-5 9/64	(2698)	114 29/64	(2732)

- Inswing Doors and Outswing Doors are 2 1/4" panels
- Inswing Doors require 6 9/16" jamb.
- Some configurations require KD.

For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

Ultimate Inswing Door: UID

Ultimate Outswing Door: UOD

INSWING / OUTSWING DOOR (3" STILES) TRANSOMS

SIZE CHART

Standard Ultimate Inswing/Outswing Door In-Sash Transom Unit Measurements													
Width													
Unit Type	**Call Number**	**Masonry Opening**		**Rough Opening**		**Frame Size**		**Sash OM**		**Daylight Opening**		**Glass Size**	
		ft - in	**mm**	**ft - in**	**mm**	**ft - in**	**mm**	**ft-in**	**mm**	**ft - in**	**mm**	ft-in	mm
1 Sash 1 Frame	1-6	1-8 11/32	(517)	1-8 27/32	(529)	1-7 27/32	(504)	1-5 15/32	(444)	0-11 1/2	(292)	1-0 3/4	(324)
	2-0	2-1 15/16	(659)	2-2 7/16	(672)	2-1 7/16	(646)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	2-6	2-7 15/16	(811)	2-8 7/16	(824)	2-7 7/16	(799)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	2-8	2-9 15/16	(862)	2-10 7/16	(875)	2-9 7/16	(849)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	3-0	3-1 15/16	(964)	3-2 7/16	(976)	3-1 7/16	(951)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	3-6	3-7 15/16	(1116)	3-8 7/16	(1129)	3-7 7/16	(1103)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	3-10 1/4	(1175)	3-4 9/32	(1023)	3-5 17/32	(1055)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	4-10 1/4	(1480)	4-4 9/32	(1328)	4-5 17/32	(1360)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	5-2 1/4	(1581)	4-8 9/32	(1430)	4-9 17/32	(1461)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	5-10 1/4	(1784)	5-4 9/32	(1633)	5-5 17/32	(1664)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	6-10 1/4	(2089)	6-4 9/32	(1938)	6-5 17/32	(1969)
2 Sash 1 Frame	4-0	4-1 1/8	(1248)	4-1 5/8	(1260)	4-0 5/8	(1235)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	5-0	5-1 1/8	(1553)	5-1 5/8	(1565)	5-0 5/8	(1540)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	5-4	5-5 1/8	(1654)	5-5 5/8	(1667)	5-4 5/8	(1641)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	6-0	6-1 1/8	(1857)	6-1 5/8	(1870)	6-0 5/8	(1845)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	7-0	7-1 1/8	(2162)	7-1 5/8	(2175)	7-0 5/8	(2149)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
3 Sash 1 Frame	6-0	6-0 5/16	(1837)	6-0 13/16	(1849)	5-11 13/16	(1824)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	7-6	7-6 5/16	(2294)	7-6 13/16	(2307)	7-5 13/16	(2281)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	8-0	8-0 5/16	(2446)	8-0 13/16	(2459)	7-11 13/16	(2434)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	9-0	9-0 5/16	(2751)	9-0 13/16	(2764)	8-11 13/16	(2738)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	10-6	10-6 5/16	(3208)	10-6 13/16	(3221)	10-5 13/16	(3196)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
4 Sash 1 Frame	8-0	7-11 1/2	(2426)	8-0	(2438)	7-11	(2413)	1-11 1/16	(586)	1-5 3/32	(434)	1-6 11/32	(466)
	10-0	9-11 1/2	(3035)	10-0	(3048)	9-11	(3023)	2-5 1/16	(738)	1-11 3/32	(587)	2-0 11/32	(618)
	10-8	10-7 1/2	(3239)	10-8	(3251)	10-7	(3226)	2-7 1/16	(789)	2-1 3/32	(637)	2-2 11/32	(669)
	12-0	11-11 1/2	(3645)	12-0	(3658)	11-11	(3632)	2-11 1/16	(891)	2-5 3/32	(739)	2-6 11/32	(771)
	14-0	13-11 1/2	(4255)	14-0	(4267)	13-11	(4242)	3-5 1/16	(1043)	2-11 3/32	(891)	3-0 11/32	(923)
Height													
Unit Type	**Call Number**	**Masonry Opening**		**Rough Opening**		**Frame Size**		**Sash OM**		**Daylight Opening**		**Glass Size**	
		ft - in	**mm**	**ft - in**	**mm**	**ft - in**	**mm**	**ft-in**	**mm**	**ft - in**	**mm**	**ft - in**	**mm**
All Configurations	1-6	1-6 1/4	(464)	1-6 1/2	(470)	1-6	(457)	1-3 5/8	(397)	1-0 13/64	(310)	13 29/64	(342)
	2-0	2-0 1/4	(616)	2-0 1/2	(622)	2-0	(610)	1-9 5/8	(549)	1-3 5/8	(397)	19 29/64	(494)
	2-6	2-6 1/4	(768)	2-6 1/2	(775)	2-6	(762)	2-3 5/8	(702)	1-9 5/8	(549)	25 29/64	(647)

Ultimate Inswing Door Transoms: UIDTR

Ultimate Outswing Door Transoms: UODTR

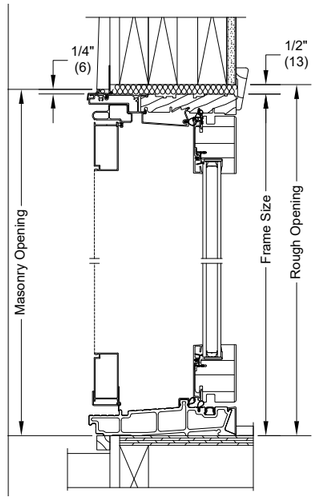
- Transom sash are 1 3/4" panels.
- Tripane transom sash are 2 1/4" panels.

Please consult your local Marvin representative for masonry openings that include casings and subsills.

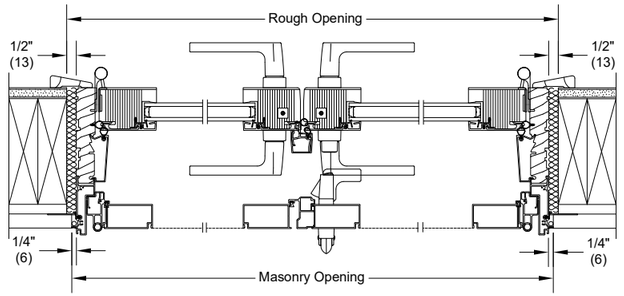
For further details and drawings visit the 'Technical Specifications' section at Marvin.com.

INSWING DOOR (3" STILES)

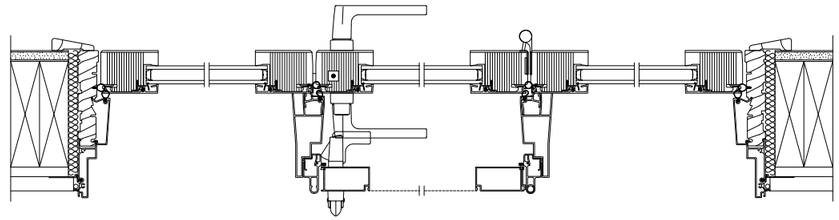
CONSTRUCTION DETAILS



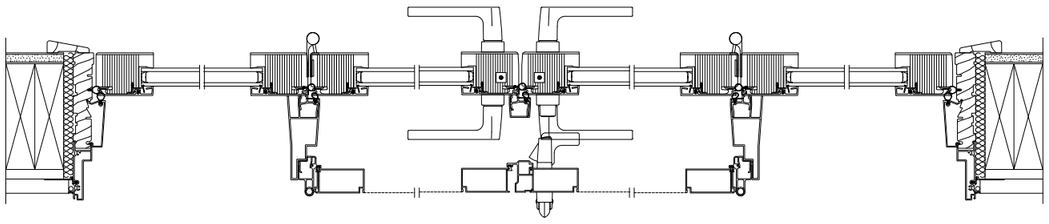
HEAD JAMB AND SILL
WITH ULTIMATE SWINGING SCREEN



2 PANEL JAMB XX LH
WITH ULTIMATE SWINGING SCREEN



3 PANEL JAMB OXO RH
WITH ULTIMATE SWINGING SCREEN



4 PANEL JAMB OXXO LH
WITH ULTIMATE SWINGING SCREEN