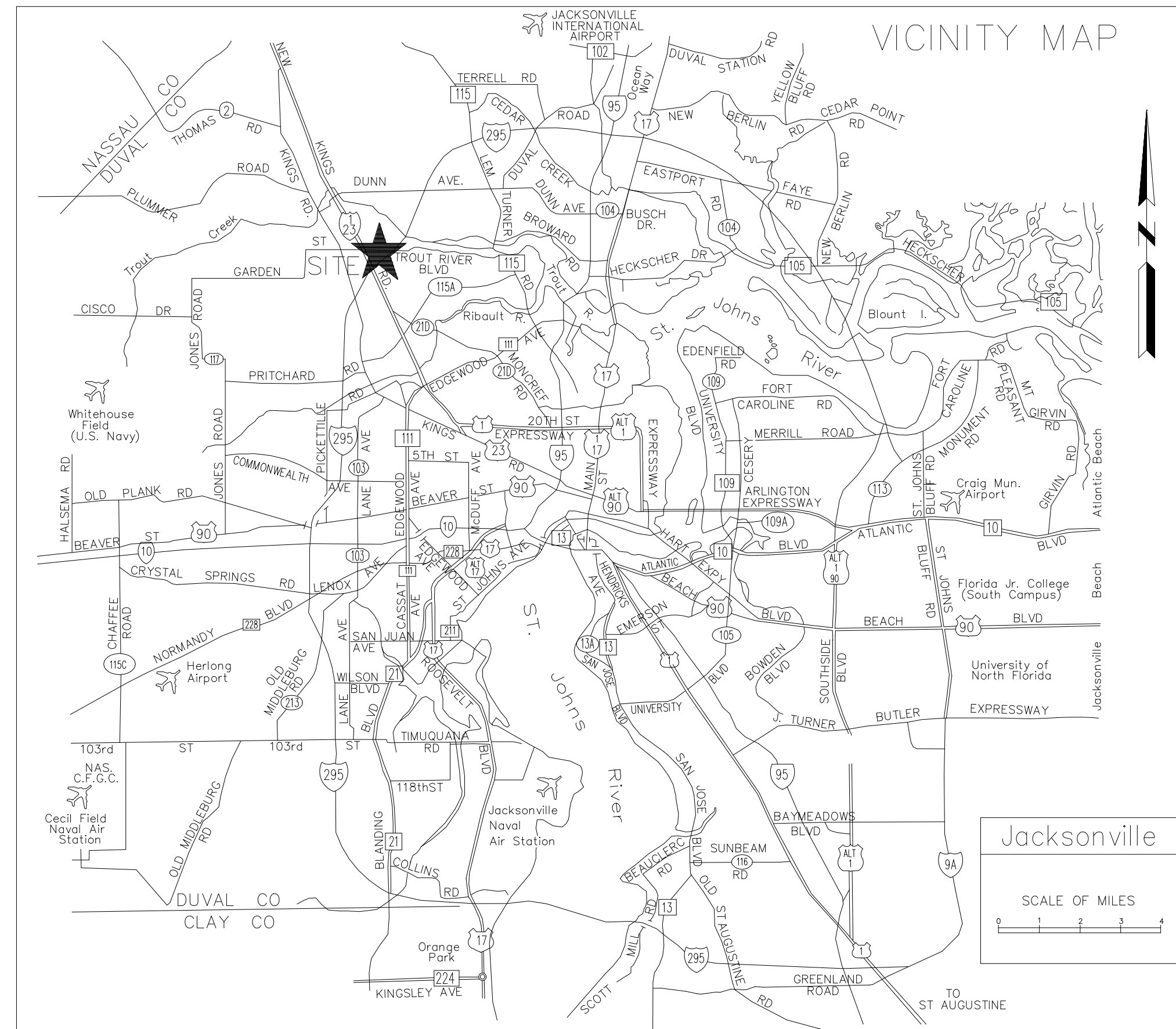


ROOF PLAN
SCALE: 1/4" = 1'-0"



CONTRACTOR TO VERIFY ALL DIMENSIONS AND OPTIONS INCLUDED

No	Revisions	Date	By
1			
2			
3			
4			
5			
6			

TOWNHOUSE 4BR

Jacksonville, FL

SOUTHERN IMPRESSION HOMES
5711 Richard St., Suite 1
Jacksonville, FL 32216

A. Project For:
Sheet Description
A0.0-OVERVIEW

Drawn by: _____ Checked by: _____
Issued Date: _____ Scale (U.N.O.): _____
Printed Date: _____ Sheet Number: _____

2023 FLORIDA BUILDING CODE:

- SLEEPING ROOMS HAVE ADEQUATE WINDOW SIZE AND PROPER LOCATION FOR ESCAPE & RESCUE FBC R310
- ONE BATHROOM WITH A 29" MINIMUM CLEAR ACCESS, ON THE LOWER FLOOR. FBC R320
- HAZARDOUS GLASS LOCATIONS INDICATED. FBC R308.4
- ATTIC ACCESS LOCATED WITH OPENING DIMENSIONS FBC R807.
- PROVIDE PROTECTION FROM IMPACT IN GARAGES FOR DUCTWORK & APPLIANCES. FBC M1307, FBC MECHANICAL 603.15, FBC FUEL GAS 303.4
- STAIR CONSTRUCTION DETAILS INDICATE PROPER TREAD/RISER RELATIONSHIP, HANDRAIL LOCATION, HANDRAIL/GUARDRAIL HTS., & MINIMUM OPEN RAIL SPACING INDICATED. FBC 311.7, R312.1
- FLASHING DETAILS @ EXTERIOR WINDOW/DOOR OPENINGS, INTERSECTIONS W/ CHIMNEY/MASONRY/ETC, PROJECTING WOOD TRIM, EXTERIOR DECKS/PORCHES/STAIRS, WALL/ROOF INTERSECTIONS, VENEERS, ETC. FBC BUILDING 107.2.4, FBC R703.4
- SMOKE DETECTORS & CARBON MONOXIDE DETECTORS(IF APPLICABLE) LOCATED FBS R314 R315
- PROVIDE ROOF VENTILATION CALCULATION, FBC R806
- PROVIDE DETAILS FOR DWELLING-GARAGE OPENING AND PENETRATION PROTECTION; PROVIDE DETAILS FOR DWELLING-GARAGE FIRE SEPARATION. FBC R302.5, R302.6
- PROVIDE LOCATION OF ALL REQUIRED GFI/AFI AND WATERPROOF RECEPTACLE. FBC R3901, E4002
- ALL PERMANENTLY INSTALLED LUMINAIRES, EXCLUDING THOSE IN KITCHEN APPLIANCES, SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT FBC ENERGY CONSERVATION
- LOCATION OF REQUIRED VENTING FOR ALL FUEL BURNING APPLIANCES, INCLUDING FIREPLACES. FB CHAPTER 24

NOTE:
A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTORS USE PRIOR TO FRAMING INSPECTION.

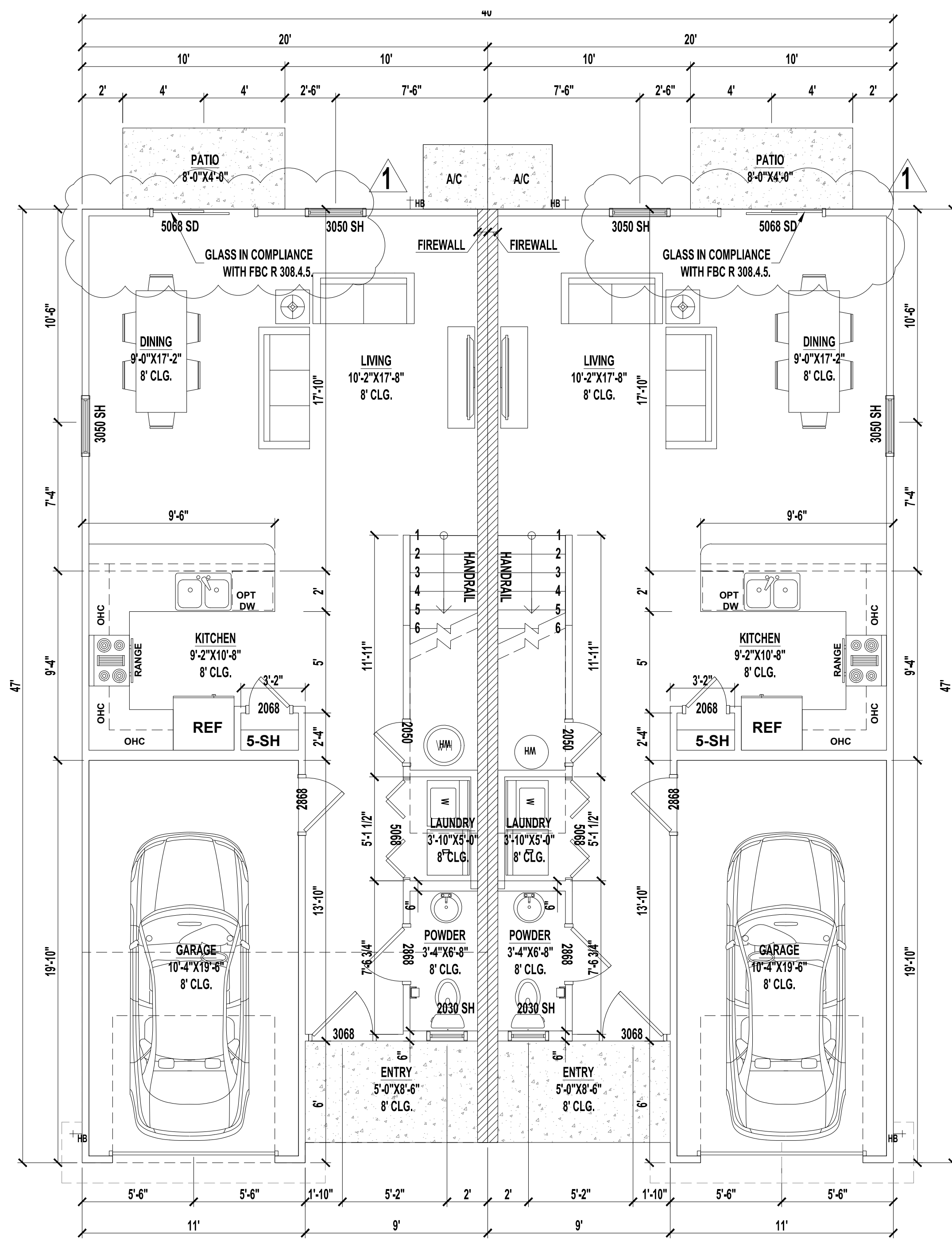
DRAWING INDEX

SHEET NUMBER	SHEET NAME
A1.1	FLOOR PLANS
A1.2	FOUNDATION AND ROOF PLANS
A1.3	ELECTRIC PLANS
A2.1	ELEVATIONS
A3.1	DETAIL SHEET
A3.2	UL DETAIL SHEET

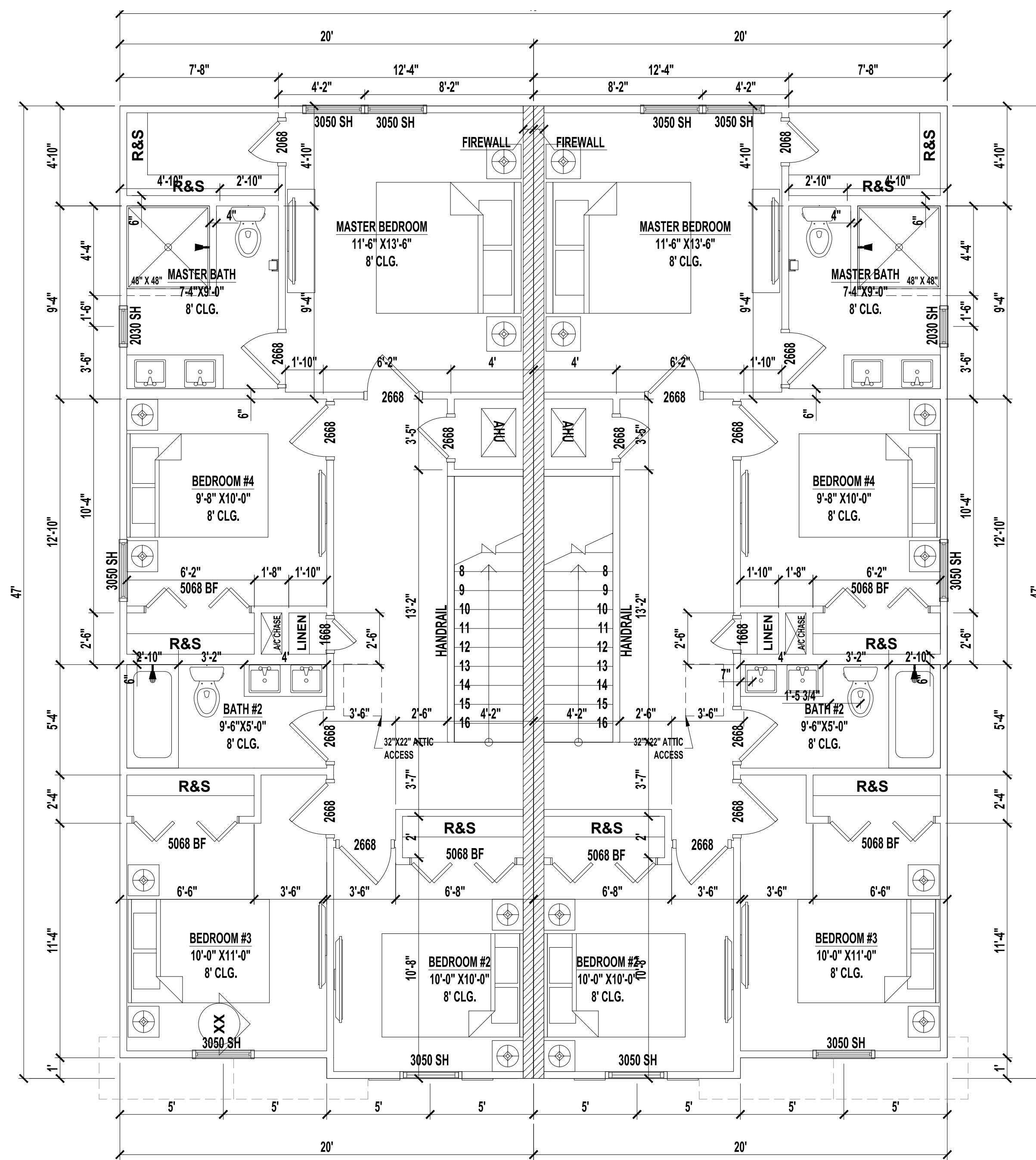
CODE INFORMATION

BUILDING CODE: 2023 FLORIDA BUILDING CODE RESIDENTIAL 8TH ADDITION
2023 FLORIDA BUILDING CODE PLUMBING
2023 FLORIDA BUILDING CODE MECHANICAL
2020 NEC

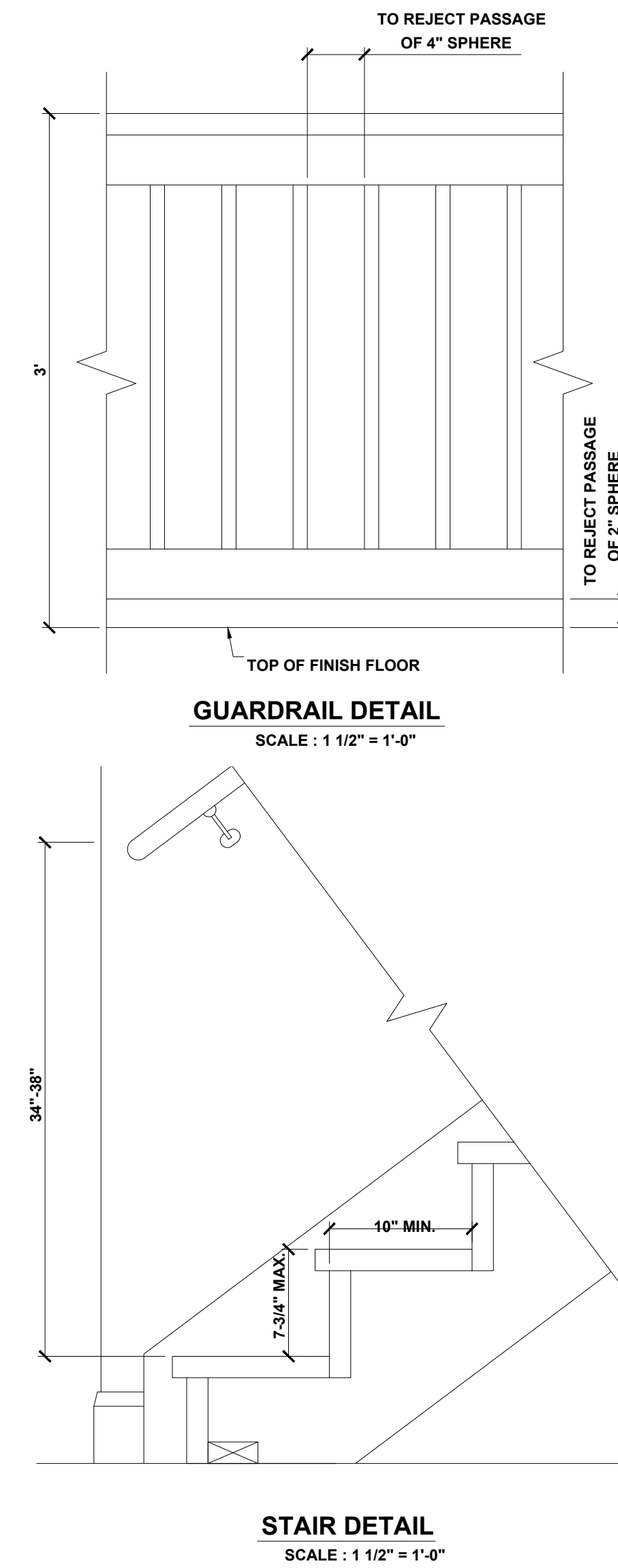
CONSTRUCTION TYPE: 5B
OCCUPANCY CLASS: R-3



TYPICAL 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"



TYPICAL 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"



BUILDING AREAS EACH UN	
1ST FLOOR HEATED AREA	651 SF
2ND FLOOR HEATED AREA	880 SF
TOTAL HEATED AREA	1,531 SF
GARAGE	201 SF
ENTRY	42 SF
TOTAL UNDER ROOF	1,774 SF
PATIO	32 SF

CONDITIONED SPACE = 14,192 CF EACH UN.

- NOTES:**
- IF SHOWER HAS GLASS ENCLOSURE, SAFETY GLAZING REQUIRED PER FBC R-308.4.5.
 - CONTRACTOR MUST VERIFY ALL DIMENSIONS.

FBC NOTE:
ENCLOSED SPACE UNDER STAIRS THAT IS ACCESSED BY A DOOR OR ACCESS PANEL SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2-INCH (12.7 MM) GYPSUM BOARD, PER FBC R302.7.

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

FBC NOTE:
P2705.1.5. - WATER CLOSETS, LAVATORIES AND BIDETS. A WATER CLOSET, LAVATORY OR BIDET SHALL NOT BE SET CLOSER THAN 15 INCHES (381 MM) FROM ITS CENTER TO ANY SIDE WALL, PARTITION OR VANITY OR CLOSER THAN 30 INCHES (762 MM) CENTER-TO-CENTER BETWEEN ADJACENT FIXTURES. THERE SHALL BE A CLEARANCE OF NOT LESS THAN 21 INCHES (533 MM) IN FRONT OF A WATER CLOSET, LAVATORY OR BIDET TO ANY WALL, FIXTURE OR DOOR.

FBC NOTE:
DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF MINIMUM No. 26 GAGE(0.48mm) SHEET STEEL, 1INCH(25.4mm) MINIMUM RIGID NONMETALLIC CLASS 0 OR CLASS 1 DUCT BOARD, OR OTHER APPROVED MATERIAL AND SHALL NOT HAVE OPENINGS INTO THE GARAGE. FBC R305.5.2

TABLE R302.6: DWELLING-GARAGE SEPARATION

SEPARATION	MATERIAL
FROM THE RESIDENCE AND ATTICS	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE
FROM HABITABLE ROOMS ABOVE GARAGE	NOT LESS THAN 5/8" TYPE "X" GYPSOM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALL THAT ARE WITHIN THIS AREA

No	Revisions	Date	By
1			
2			
3			
4			
5			
6			

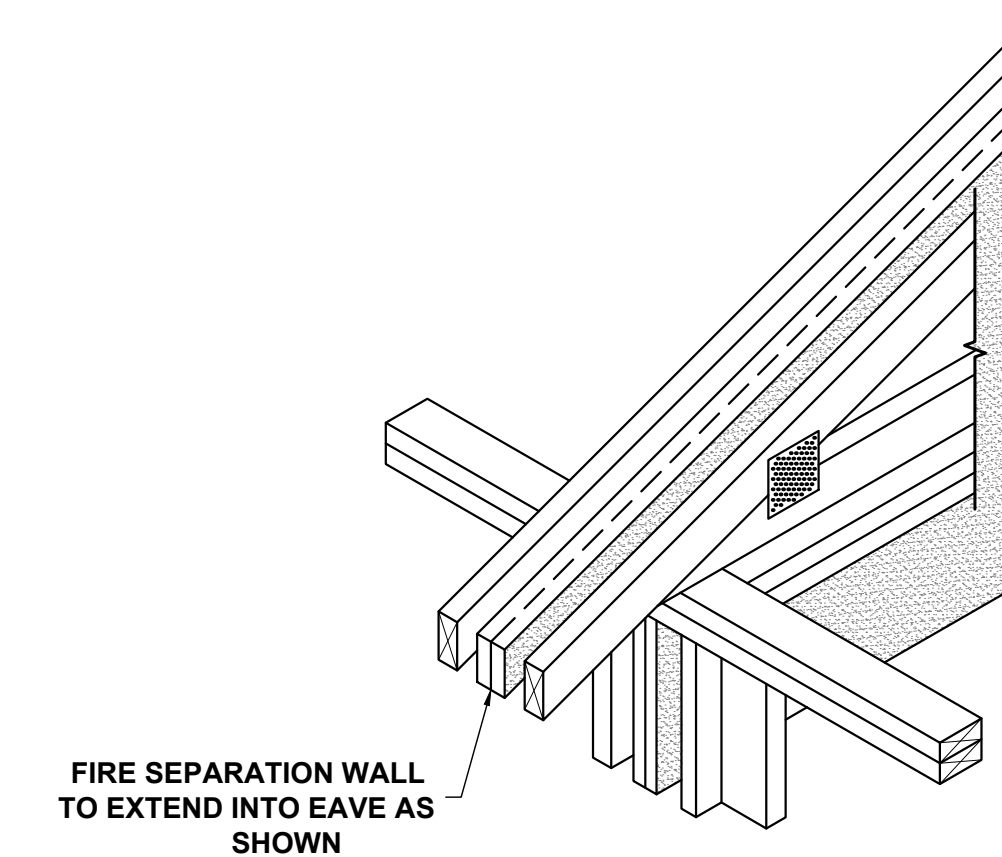
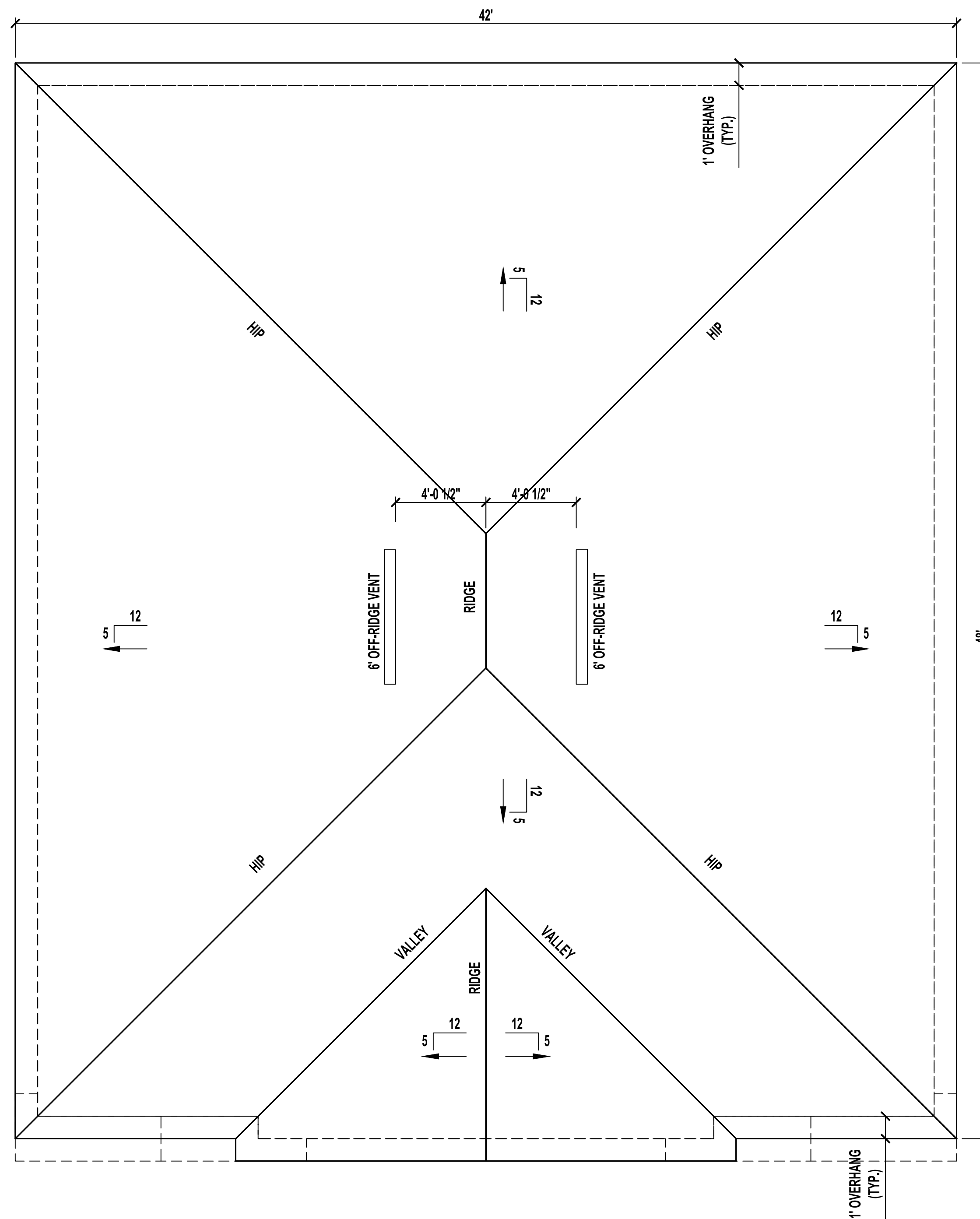
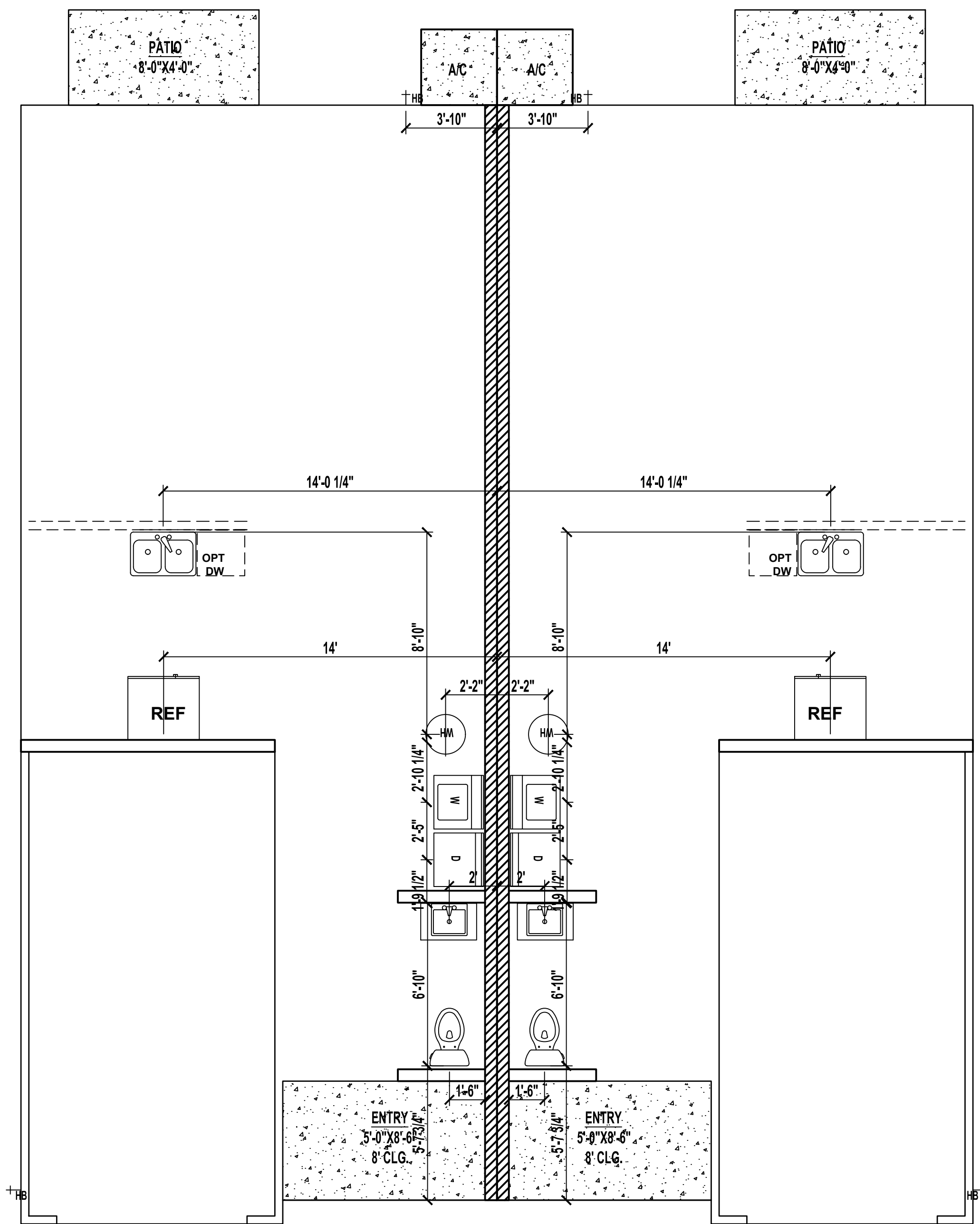
TOWNHOUSE 4BR

Jacksonville, FL

SOUTHERN IMPRESSION HOMES
5711 Richard St., Suite 1
Jacksonville, FL 32216

A. Project For: **SOUTHERN IMPRESSION HOMES**
Sheet Description: **A1.1-FLOOR PLAN**

Drawn by: _____ Checked by: _____
Issued Date: _____ Scale: (U.N.O.)
Printed Date: _____ Sheet Number: _____



FIRE RATED WALL AT SOFFIT - UL DESIGN: U350B
SCALE: N.T.S.

VENT CALCULATIONS PER UNIT

VENTED SOFFIT

VENTILATED ATTIC AREA: 930 SQ. FT.

$930 / 300 = 3.1$ SQ. FT.

3.1 SQ. FT. X $144 = 446.4$ SQ. IN. TOTAL NET FREE VENT AREA

$446.4 \times 50\% = 223.2$ SQ. IN. NET FREE

SOFFIT REQUIREMENT = 6.36 SQ. IN. NET FREE PER LF

$232 / 6.36 = 37$ LF VENTED SOFFIT REQUIRED

OFF-RIDGE VENTS

VENTILATED ATTIC AREA: 930 SQ. FT.

$930 / 300 = 3.1$ SQ. FT.

3.1 SQ. FT. X $144 = 446.4$ SQ. IN. TOTAL NET FREE VENT AREA

$446.4 \times 50\% = 223.2$ SQ. IN. NET FREE

(1) 6' OFF-RIDGE VENTS REQUIRED (216 SQ. IN. EACH)

VENT CALCULATIONS LOWER ROOFS PER UNIT

VENTED SOFFIT

VENTILATED ATTIC AREA: 11 SQ. FT.

$11 / 150 = 0.07$ SQ. FT.

0.07 SQ. FT. X $144 = 10.6$ SQ. IN. TOTAL NET FREE VENT AREA

SOFFIT REQUIREMENT = 6.36 SQ. IN. NET FREE PER LF

$10.6 / 6.36 = 2$ LF VENTED SOFFIT REQUIRED

NOTES TO PLUMBERS:

- PLUMBING SHALL COMPLY W/ FBC 2023 PLUMBING CODE.
- WATER HEATER SHALL HAVE A PAN AS REQUIRED AND RELIEF VALVE TO BE PIPED OUTSIDE WITHOUT TRAPPING
- CLEANDUCT SHALL BE PROVIDED @ BASE OF STACK & @ 41'-0" A.F.F. IN LAUNDRY ROOMS

FBC NOTE:

- TERMITE PROTECTION TO BE PROVIDED PER FBC 318;
- HORIZONTAL AND VERTICAL FIREBLOCKING TO BE PROVIDED PER FBC 302.11;
- DRAFTSTOPPING TO BE PROVIDED PER FBC 302.12

WIND DESIGN DATA

ULTIMATE WIND SPEED	130 MPH
NOMINAL (BASIC) WIND SPEED	108 MPH
RISK CATEGORY:	II
WIND EXPOSURE:	B

No	Revisions	Date	By
1			
2			
3			
4			
5			
6			

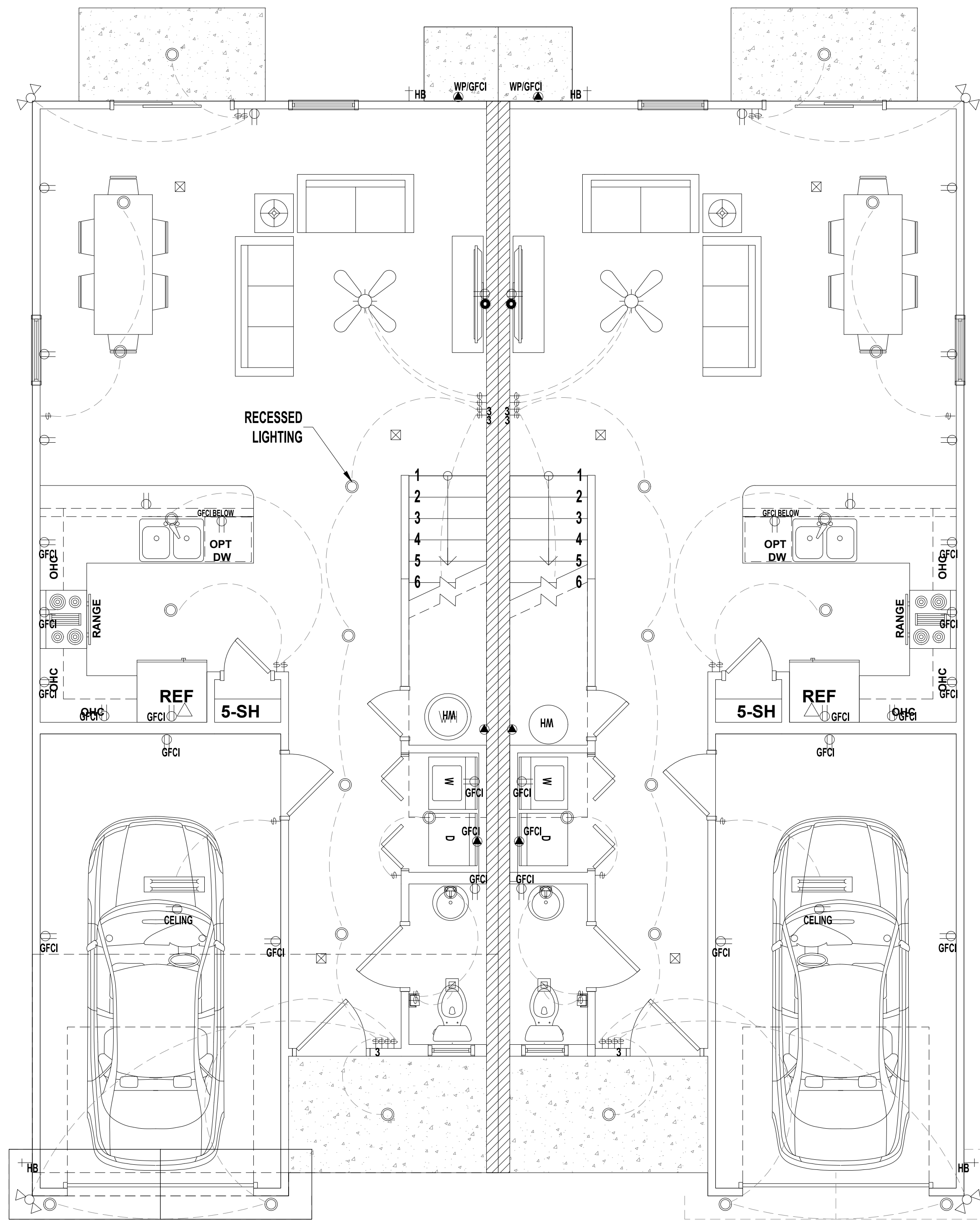
TOWNHOUSE 4BR

Jacksonville, FL

Project For:
SOUTHERN IMPRESSION HOMES
5711 Richard St, Suite 1
Jacksonville, FL 32216

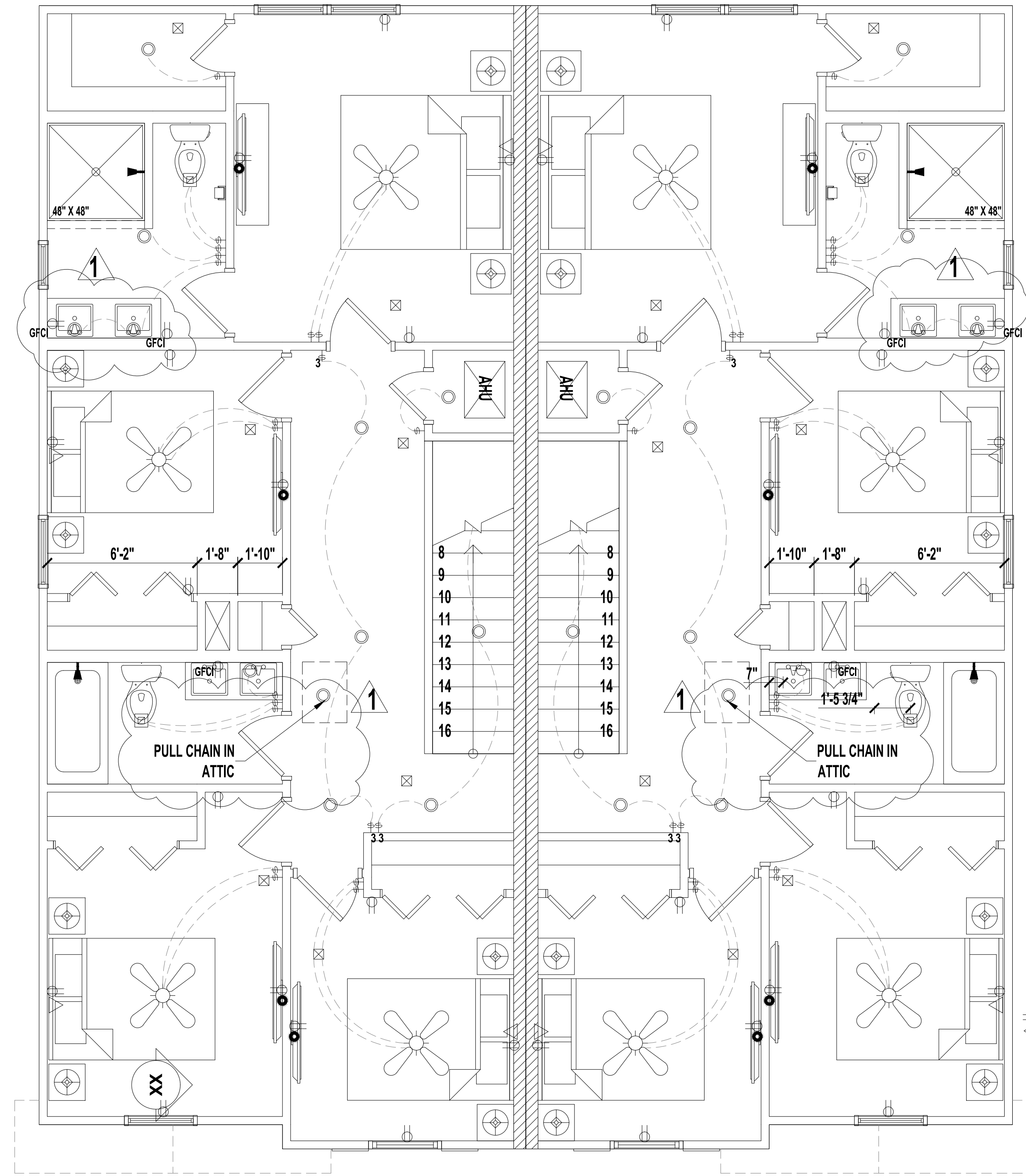
Sheet Description
A1.2-FOUNDATION AND ROOF PLANS

Drawn by:	Checked by:
Issued Date:	Scale (U.N.O.):
Printed Date:	Sheet Number



TYPICAL ELECTRIC PLAN 1ST FLOOR

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



TYPICAL ELECTRIC PLAN 2ND FLOOR

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

NEC 210.70 NOTE:

FOR ATTICS AND UNDERFLOOR SPACES, UTILITY ROOMS, AND BASEMENTS, AT LEAST ONE LIGHTING OUTLET CONTAINING A SWITCH OR CONTROLLED BY A WALL SWITCH OR LISTED WALL-MOUNTED CONTROL DEVICE SHALL BE INSTALLED WHERE THESE SPACES ARE USED FOR STORAGE OR CONTAIN EQUIPMENT REQUIRING SERVICING. A POINT OF CONTROL SHALL BE AT EACH ENTRY THAT PERMITS ACCESS TO THE ATTIC AND UNDERFLOOR SPACE, UTILITY ROOM, OR BASEMENT. WHERE A LIGHTING OUTLET IS INSTALLED FOR EQUIPMENT REQUIRING SERVICE, THE LIGHTING OUTLET SHALL BE INSTALLED AT OR NEAR THE EQUIPMENT.

LEGEND

	(2) 110V OUTLETS
	(1) 220V DISCONNECT
	(2) 110V WATERPROOF GFCI OUTLETS (INTERIOR)
	(2) 110V WATERPROOF GFCI OUTLETS (EXTERIOR)
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	LIGHT FIXTURE / EXHAUST FAN
	RECESSED LIGHT FIXTURE
	PENDANT LIGHTING
	PRE-WIRE AND BRACE FOR CEILING FAN
	SMOKE/CARBON MONOXIDE DETECTOR
	OPTIONAL FLOOD LIGHT
	1'X4' FLOURESCENT LIGHT
	CABLE OUTLET
	PHONE OUTLET

NOTES:

1. ELECTRICAL LAYOUT MUST MEET STATE AND LOCAL CODES. ELECTRICIAN TO VERIFY.
2. ALL FIXTURES TO BE CFL OR LED.
3. ALL OUTLETS THAT ARE NOT GFI TO BE AFCI PROTECTED.

FBC ENERGY NOTE:

1. FBC ENERGY R404.1 ALL PERMANENTLY INSTALLED LUMINAIRES, EXCLUDING THOSE IN KITCHEN APPLIANCES, SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT.
2. LAMPS TO BE INSTALLED, 100% HIGH EFFICACY CONFIRM BUILDER STANDS.

No	Revisions		Date	By
	1	2		
1				
2				
3				
4				
5				
6				

TOWNHOUSE 4BR
Jacksonville, FL

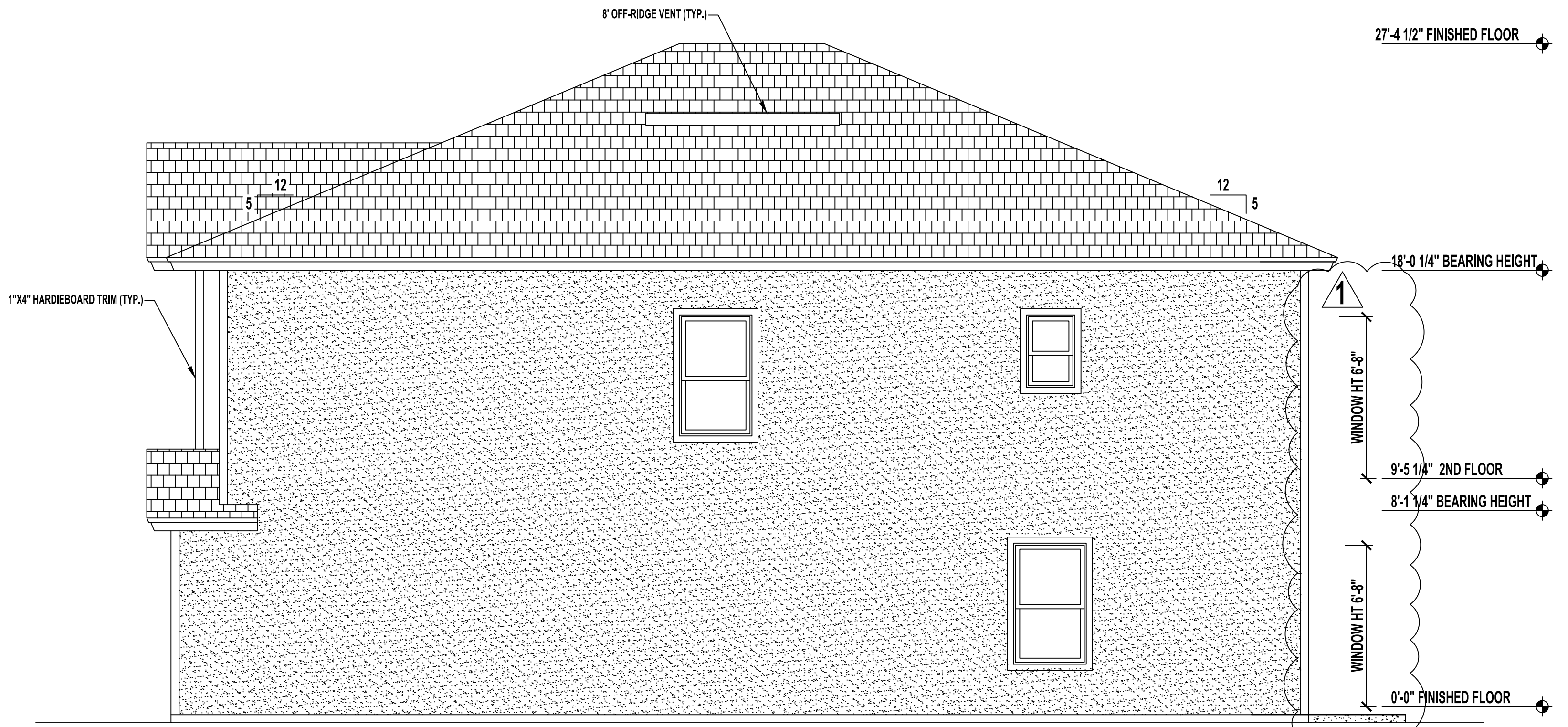
A Project For:
SOUTHERN IMPRESSION HOMES
5711 Richard St., Suite 1
Jacksonville, FL 32216

Sheet Description
A1.3-ELECTRIC PLAN

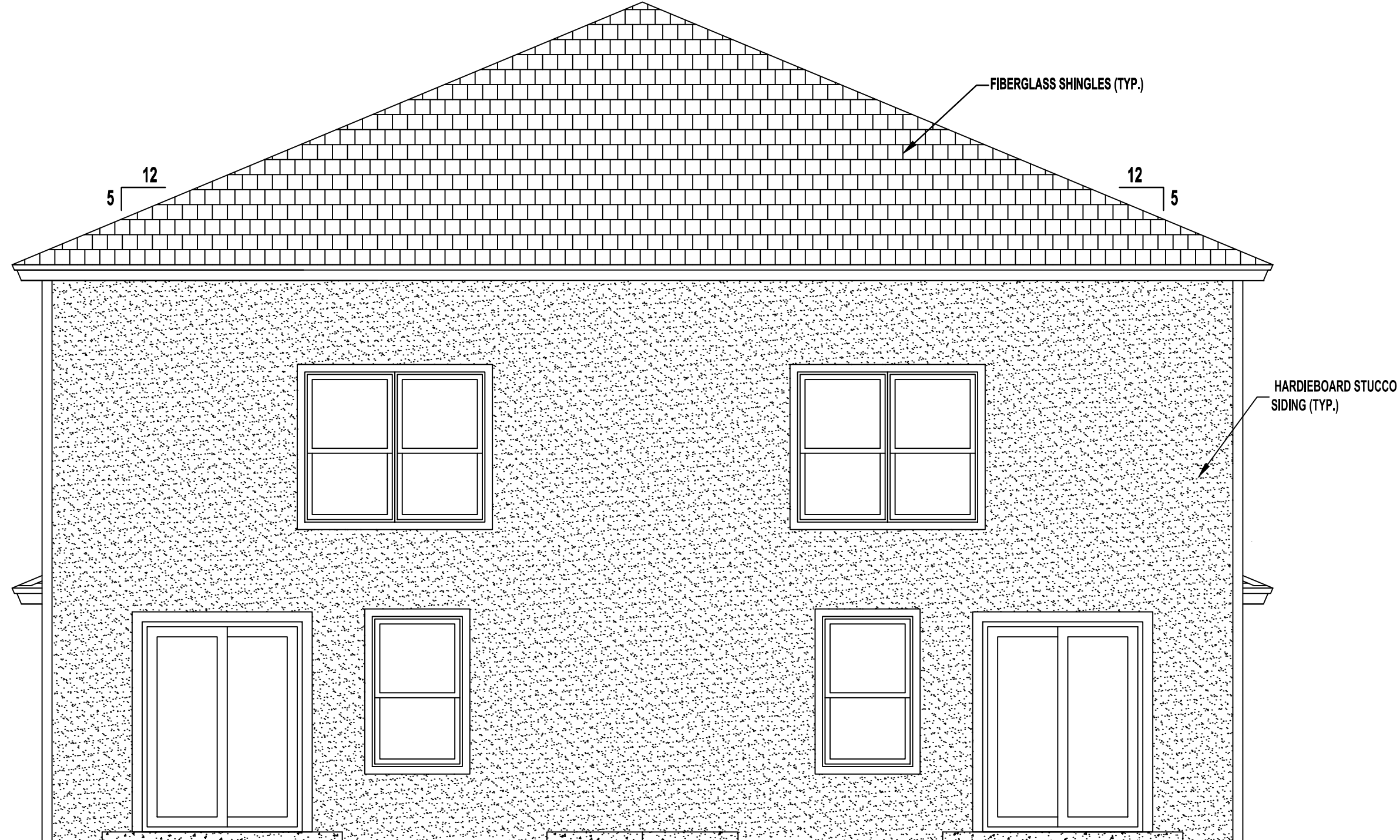
Drawn by:	Checked by:
Issued Date:	Scale (U.N.O.):
Printed Date:	Sheet Number



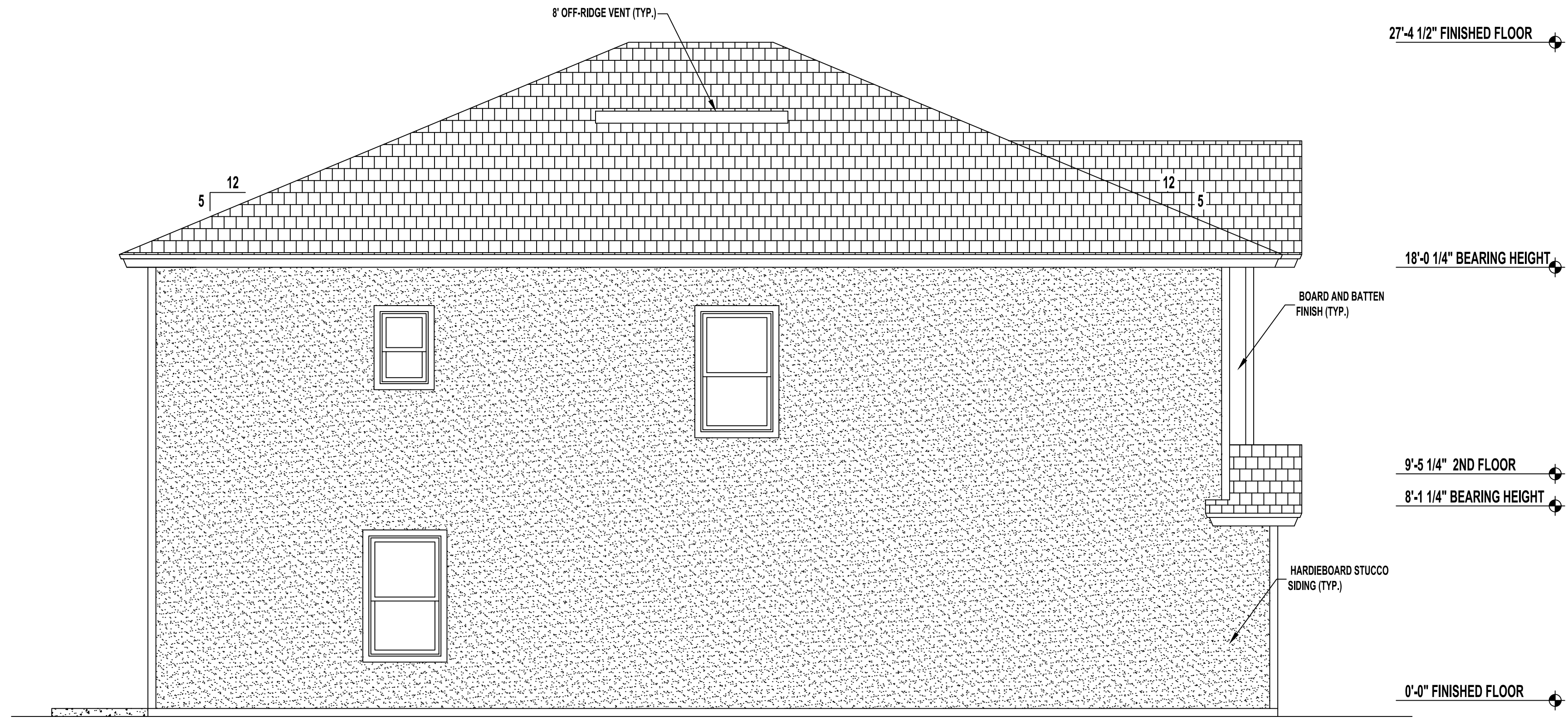
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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



LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"

No	Revisions	Date	By
1			
2			
3			
4			
5			
6			

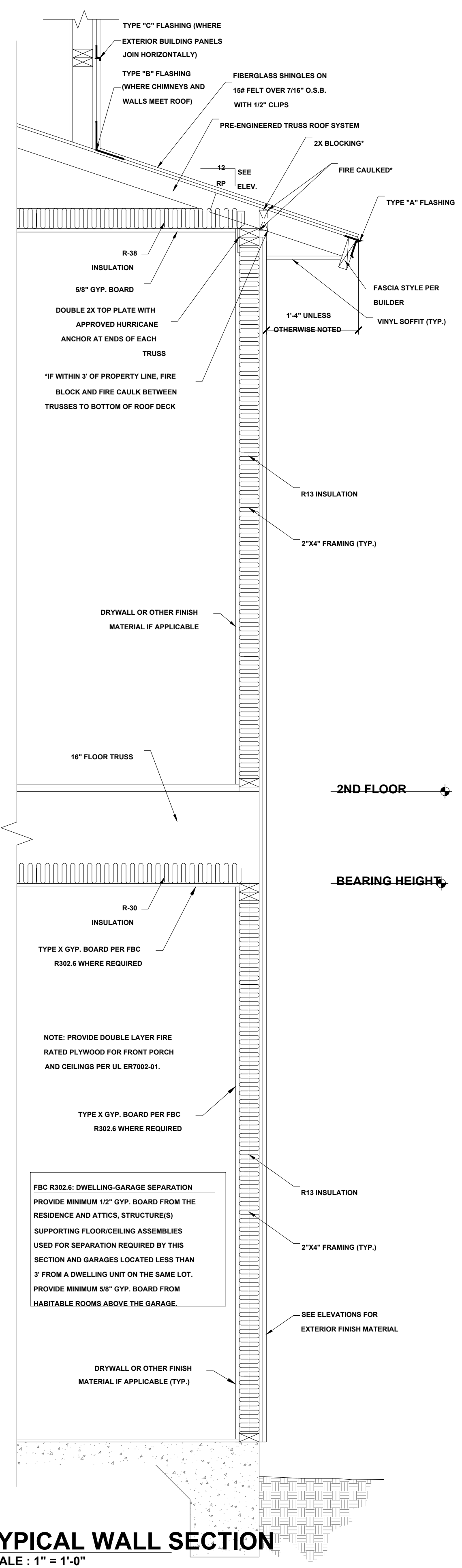
TOWNHOUSE 4BR

SOUTHERN IMPRESSION HOMES
5711 Richard St., Suite 1
Jacksonville, FL 32216

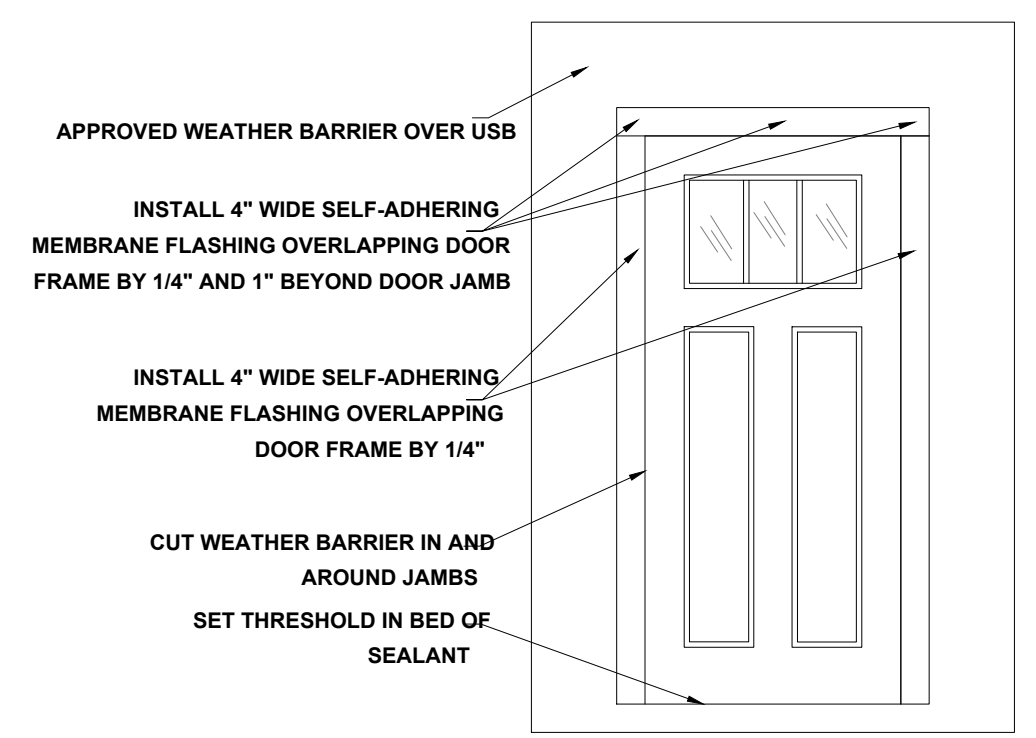
A. Project For:
Sheet Description
A2.1-ELEVATION

Drawn by: _____ Checked by: _____
Issued Date: _____ Scale (U.N.O.): _____
Printed Date: _____ Sheet Number: _____

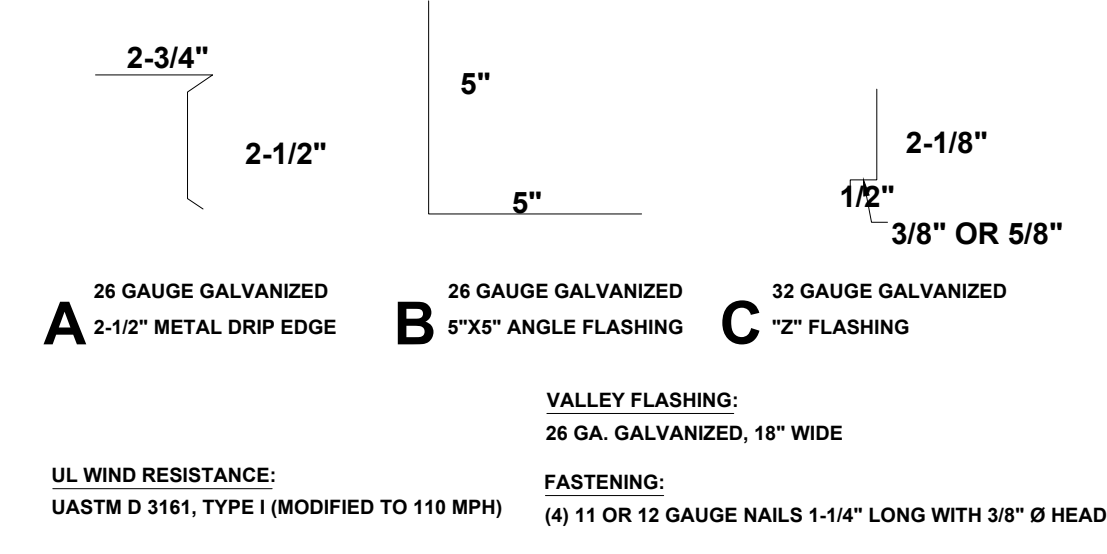
Jacksonville, FL



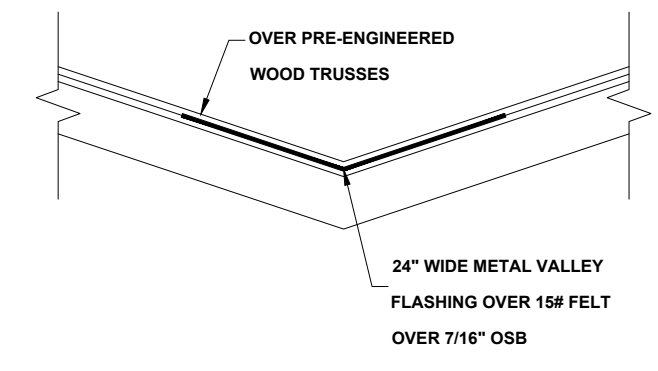
TYPICAL WALL SECTION
SCALE: 1" = 1'-0"



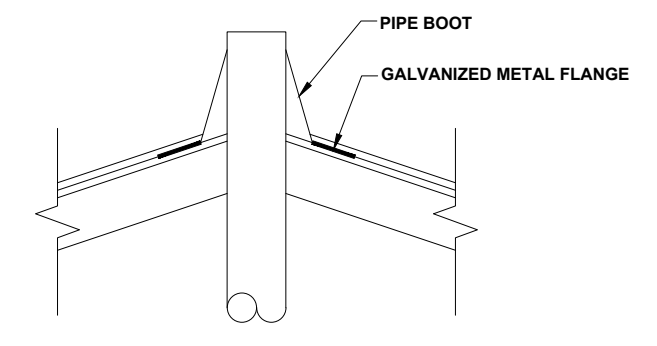
DOOR FLASHING INSTALLATION AND DETAIL
SCALE: N.T.S.



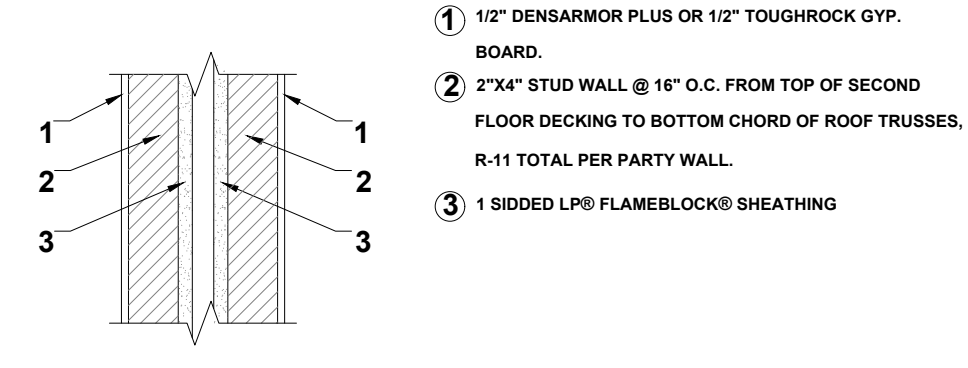
FLASHING DETAILS AND SHINGLE INFORMATION
SCALE: 3" = 1'-0"



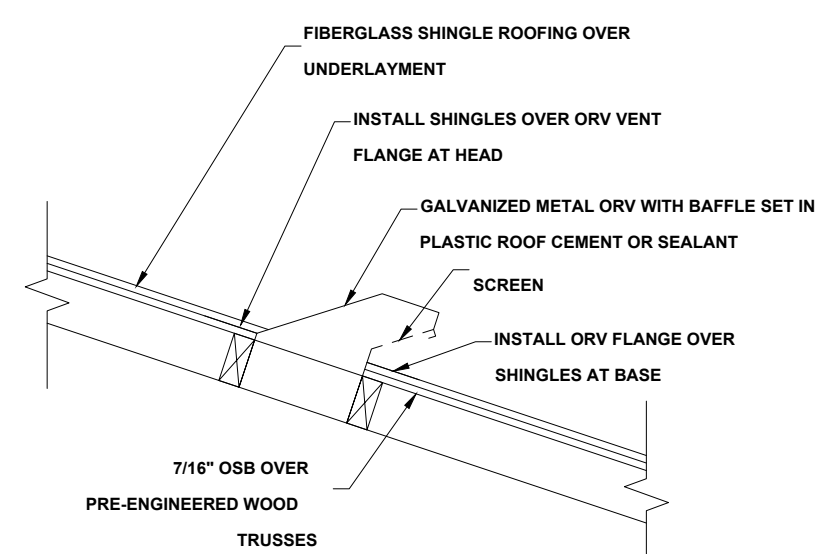
VALLEY FLASHING DETAIL
NOT TO SCALE



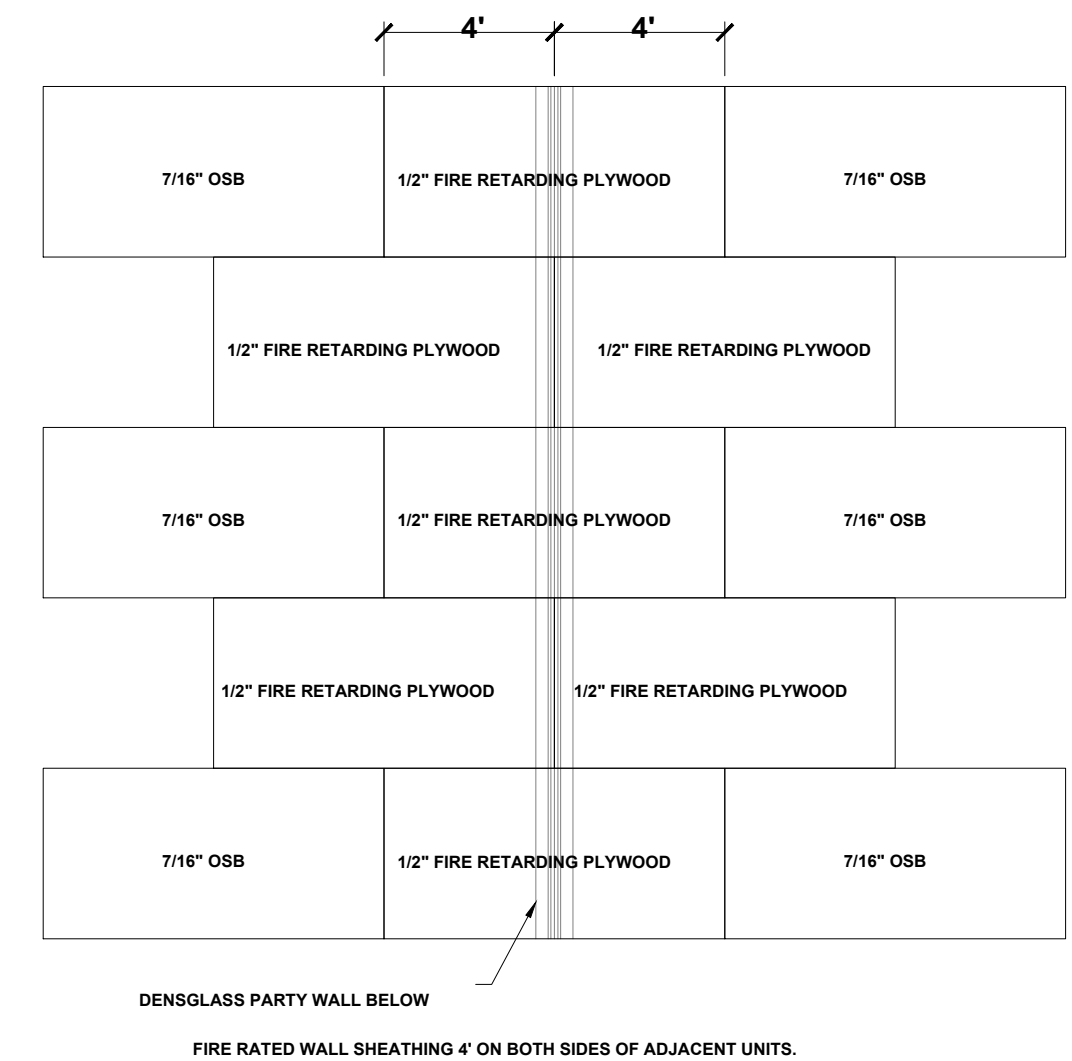
PLUMBING STACK FLASHING DETAIL
NOT TO SCALE



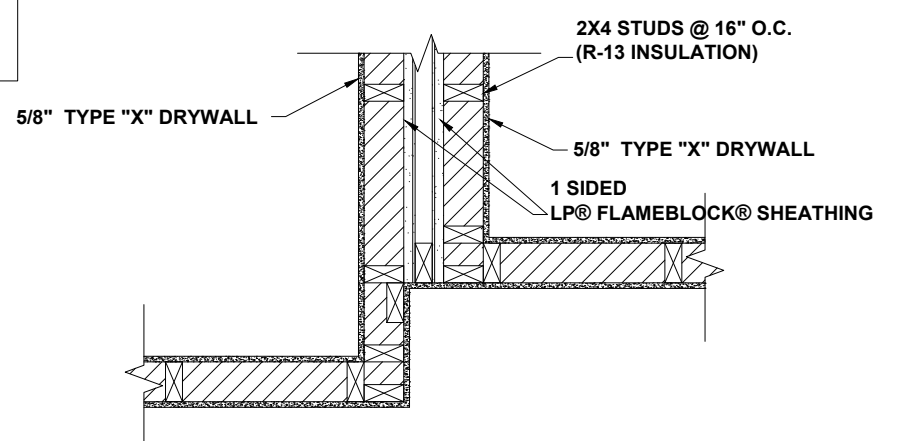
FRAME PARTY WALL CONSTRUCTION
UL DESIGN: U350B
SCALE: 1" = 1'-0"



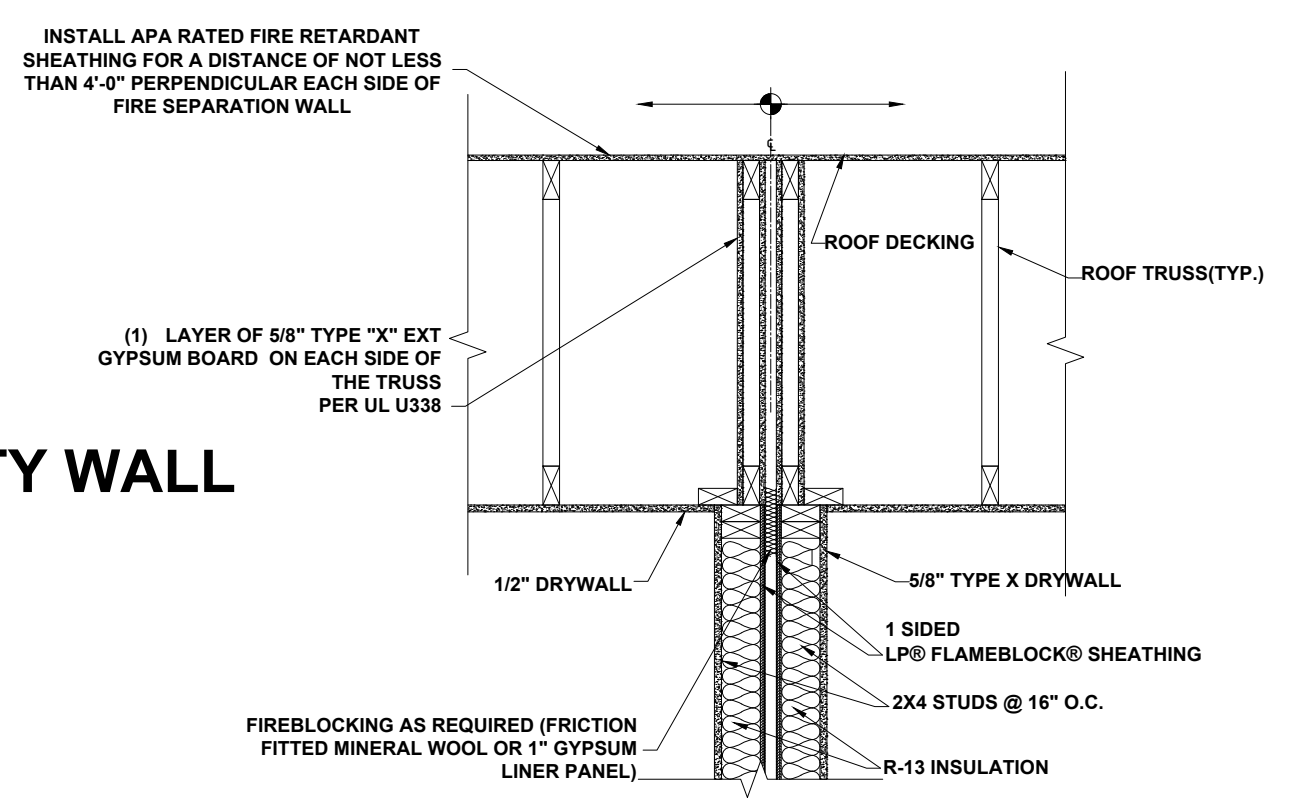
OFF RIDGE VENT DETAIL
NOT TO SCALE



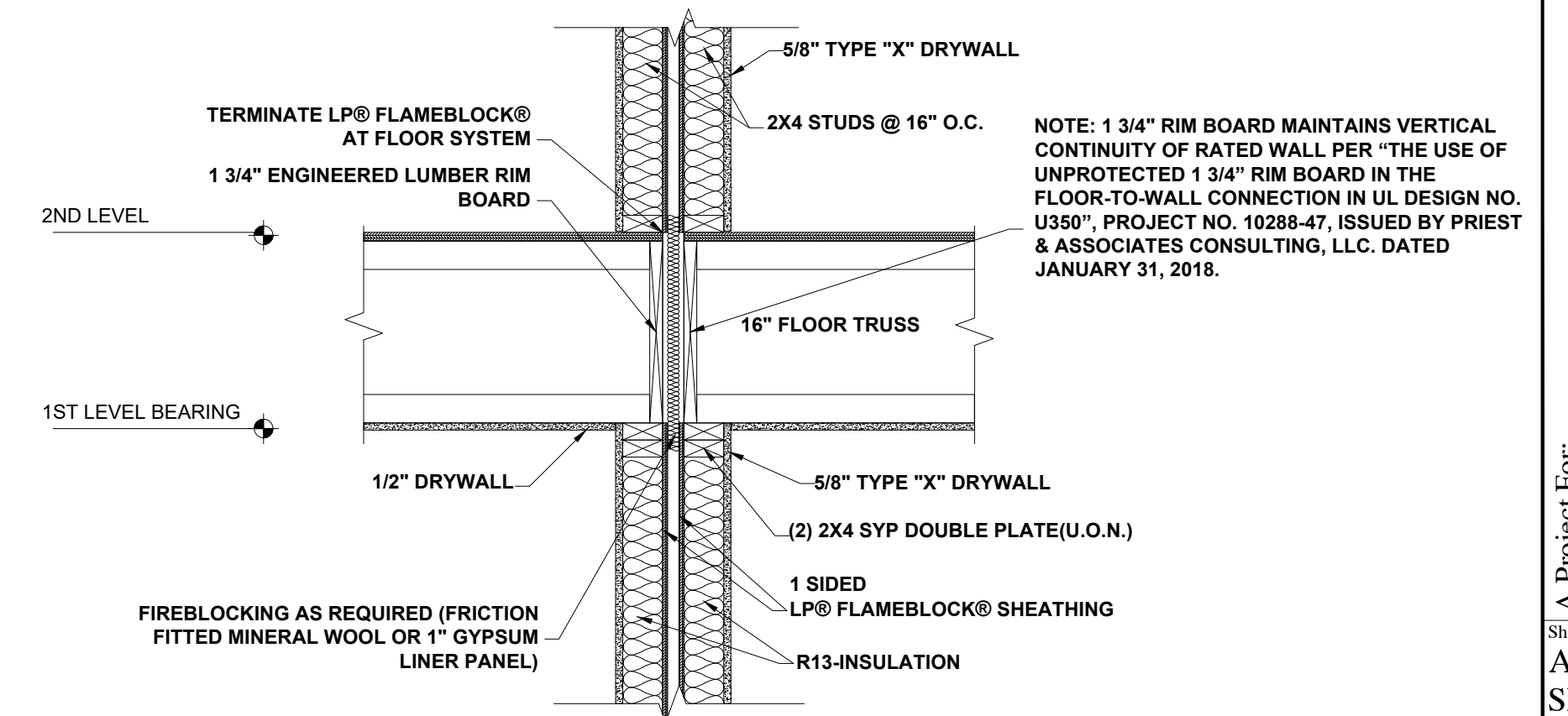
ROOF SHEATHING DETAIL AT PARTY WALL
SCALE: 1/4" = 1'-0"



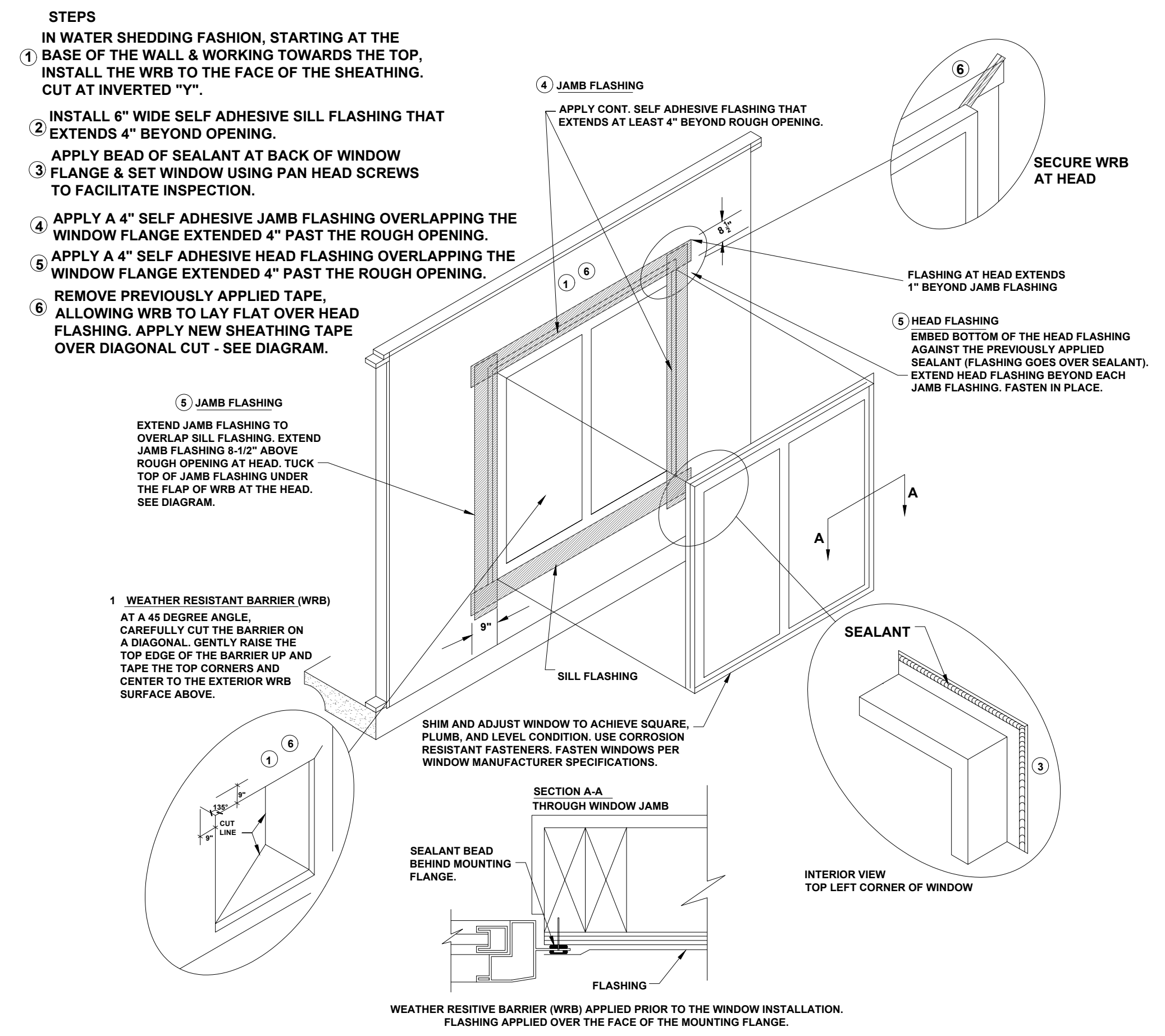
TYPICAL OFFSET WALL BETWEEN UNITS
- UL DESIGN: U350B
SCALE: N/A



TYPICAL ATTIC PARTY WALL - UL DESIGN: U388
SCALE: N/A



TYPICAL PARTY WALL 2ND FLOOR- UL DESIGN: U350B
SCALE: N/A



WINDOW INSTALLATION
SCALE: N.T.S.

GENERAL NOTES:

1. PARKING BUMPER (IF REQUIRED) MUST BE INSTALLED BEFORE C.O.
2. 5/8" TYPE "X" GYP. BOARD REQUIRED ON CEILING OF GARAGE WHERE HABITATL SPACE IS ABOVE PER FBC R302.6.
3. HVAC PENETRATING RATED ASSEMBLIES TO COMPLY WITH FBC R302.5.
4. UNDER STAIR PROTECTION TO COMPLY WITH FBC R302.7 (IF ACCESSIBLE).

GUARDRAIL NOTE:

DEPENDS ON FIELD CONDITIONS, DIMENSIONS MAY VARY BUT MUST COMPLY WITH FLORIDA BUILDING CODES R312.1 FOR GUARDRAIL REQUIREMENTS AND OPENINGS.
 *HEIGHT SHALL BE 36" MIN. WHEN PORCH, BALCONY OR RAISED FLOOR EXCEEDS 30" ABOVE FLOOR OR GRADE AND SHALL BE 34" ON OPEN SIDES OF STAIRS THAT EXCEED 30" OR MORE ABOVE FLOOR OR GRADE.
 *OPENINGS SHALL HAVE INTERMEDIATE RAILS OR CLOSURES WHICH DO NOT ALLOW PASSAGE OF SPHERE 4" OR GREATER IN DIAMETER. REQUIRED GUARD RAILS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW SPHERE GREATER THAN 4-3/8" IN DIAMETER TO PASS THROUGH.

HANDRAIL NOTE:

DEPENDS ON FIELD CONDITIONS, DIMENSIONS MAY VARY BUT MUST COMPLY WITH FLORIDA BUILDING CODES R311.7.5 FOR HANDRAIL HEIGHT CONTINUITY AND SIZE.
 *HEIGHT: MUST BE BETWEEN 34-38" MEASURED VERTICALLY FROM SLOPED PLANE.
 *CONTINUITY: HANDRAIL MUST BE CONTINUOUS THROUGH FULL LENGTH OF FLIGHT FROM POINT DIRECTLY ABOVE HIGHEST RISER TO POINT DIRECTLY ABOVE LOWEST RISER. HANDRAIL ENDS SHOULD TERMINATE IN NEWEL POSTS OR SAFETY TERMINAL OR RETURN TO WALL. HANDRAILS SHALL BE ALLOWED TO BE INTERRUPTED BY NEWEL POSTS.
 *SIZE: SHALL HAVE OUTSIDE DIAMETER BETWEEN 1-1/4"-2" IF CIRCULAR. SHALL HAVE BETWEEN 4-6" PERIMETER IF NOT CIRCULAR.

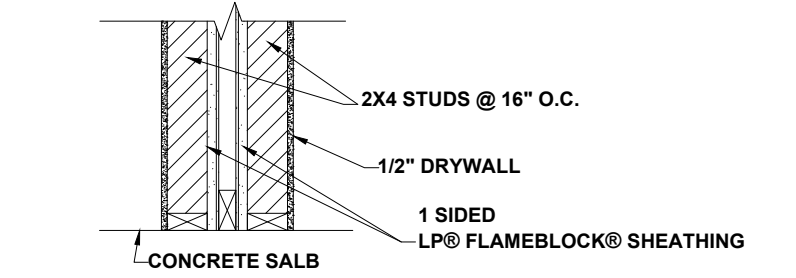
STAIR NOTE:

DEPENDS ON FIELD CONDITIONS, DIMENSIONS MAY VARY BUT MUST COMPLY WITH FLORIDA BUILDING CODES R311.7.5 FOR TREAD DEPTH, RISER HEIGHTS AND STAIR WIDTHS.
 *RISERS: 7-3/4" MAXIMUM WITH NO MORE THAN 3/8" DIFFERENCE BETWEEN HIGHEST AND LOWEST RISER.
 *TREADS: 10" MINIMUM DEPTH WITH NO MORE THAN 3/8" DIFFERENCE BETWEEN LONGEST AND SHORTEST TREAD. THE SUM OF 2 TREADS AND 1 RISER TO BE NOT LESS THAN 24" AND NOT MORE THAN 25".
 *WIDTH: 36" MINIMUM CLEAR WIDTH ABOVE HANDRAIL AND 31-1/2" BELOW HANDRAIL.

R703.4 FLASHING:

APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN SUCH A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED ANTI-CORROSION RESISTANT FLASHING SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS:
 1. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
 2. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
 3. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
 4. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OR WOOD FRAMED CONSTRUCTION.
 5. AT ALL WALL AND ROOD INTERSECTIONS.
 6. AT BUILT IN GUTTERS.

VALLEY SHINGLE INSTALLATION:
 INSTALL SHINGLES USING WEAVE METHOD
 1. EXTEND (1) FULL END SHINGLE MINIMUM 12" PAST CENTER LINE OF VALLEY. SEE MANUFACTURERS WRITTEN INSTRUCTIONS FOR ADDITIONAL INSTALL INFORMATION.
 2. DO NOT NAIL MINIMUM 6" FROM VALLEY CENTER LINE.



TYPICAL PARTY WALL TO SLAB- UL DESIGN: U350B
SCALE: N/A

No	1	2	3	4	5	6
Revisions						
Date						
By						

TOWNHOUSE 4BR

A Project For:
SOUTHERN IMPRESSION HOMES
5711 Richard St., Suite 1
Jacksonville, FL 32216

Sheet Description
A3.1-DETAIL SHEET

Drawn by: _____ Checked by: _____
 Issued Date: _____ Scale: (U.N.O.)
 Printed Date: _____ Sheet Number

UL Product IQ™

BXUVU350 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
 Design Criteria and Allowable Variations
 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
 Design Criteria and Allowable Variations

March 16, 2023

Design No. U350

Beating Wall Rating — 2 HR
 Finish Rating — 23 min

STC Rating — 61, 56 (See Items 2, 2A, 7, 7A)
 Working Stress Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit State Design Method, such as Canada, a load reduction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HORIZONTAL SECTION
 VERTICAL SECTION
 CONFIGURATION A

Feedback

U350

UL Product IQ™

BXUVU338 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
 Design Criteria and Allowable Variations
 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
 Design Criteria and Allowable Variations

March 16, 2023

Design No. U338

Nonbearing or Bearing Wall Rating — 1 HR
 (See Items 2 and 2A)
 Finish Rating — One Layer of Wallboard — Min. 20 Min.
 Two Layers of Wallboard — Min. 19 Min

This design was evaluated using a load design method other than the Limit State Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit State Design Method, such as Canada, a load reduction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HORIZONTAL SECTION

- Wood Studs — Nom 2 by 3 or 2 by 4 in., flat wide, spaced 24 in. O.C., max, effectively firestopped.
- Gypsum Board — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. U301, U312 or U385. For Nonbearing Wall rating — One layer of 5/8 in. thick gypsum board secured to each side of studs. Gypsum board applied horizontally or vertically, unless specified below, with vertical joints centered on studs, and nailed to studs and bearing plates 7 in. O.C. with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 lugs head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., gypsum board to be installed horizontally.
- American Gypsum CO (UL Classification) — CNXK14196
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (UL Classification) — CNXK14197A
- CAROT MANUFACTURING LLC (UL Classification) — CNXK14210
- CERTAINTED GYPSUM INC (UL Classification) — CNXK14660
- CGC INC (UL Classification) — CNXK19751
- CERTAINTED GYPSUM INC (UL Classification) — CNXK19422
- GEORGIA PACIFIC GYPSUM L L C (UL Classification) — CNXK14217
- NATIONAL GYPSUM CO (UL Classification) — CNXK14301
- PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM (UL Classification) — CNXK14204
- PANEL REY SA (UL Classification) — CNXK14196

Feedback

U338

CONFIGURATION B

- Wood Studs — Double row of nom 2 by 4 in., spaced 16 in. OC with two 2 by 4 top and one by 4 bottom plates. As an option, nom 2 in. by 6 in., spaced 24 in. by 6 in. top and one 2 in. by 6 in. bottom plates may be used in lieu of 2 in. by 4 in. studs and plates. Studs effectively firestopped. Opposite stud rows spaced 1 in. apart.
- Batts and Blankets* — Used to achieve the STC Ratings. Faced or unfaced mineral fiber insulation, 3-1/2 in. thick, nom 3.0 pcf, pressure fit in the wall cavity between studs, plates, and cross bracing. See Batts and Blankets* (RZD) category for names of Classified manufacturers.
- Glass Fiber Insulation — (As an alternate to Item 2, not for use with STC Ratings) — Faced or unfaced glass fiber batts 3-1/2 in. thick, nom 0.25 pcf, pressure fit in the wall cavity between studs, plates, and cross bracing may be used. #2 by 8 in. studs (Item 1) are used, min. 5-1/2 in. of unfaced glass fiber batts, nom 0.25 pcf, pressure fit in the wall cavity between studs, plates, and cross bracing. Insulation may be applied in multiple layers to achieve final thickness. See Batts and Blankets* (RZD) category for names of Classified manufacturers.
- Loose Fill Material* — (As an alternate to Item 2A, not for use with STC Ratings) — Blown in fiberglass loose-fill insulation material. The insulation is applied in a dry state to completely fill the enclosed cavity with a minimum density of 0.25 pcf.
- Fiber Spray* — (As an alternate to Batts and Blankets (Item 2), not for use with STC Ratings) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 2.5 lb/ft³ in accordance with the application instructions supplied with the product. **Applegate Greenfiber Acquisition LLC** — IN2735, IN2745, IN2750LD, and Insulmax for use with wet or dry application. IN2760LD and IN2770LD are to be used for dry application only.
- Fiber Spray* — (As an alternate to Batts and Blankets (Item 2), not for use with STC Ratings) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft³. **INTERNATIONAL CELLULOSE CORP** — Celulose.
- Fiber Spray* — (As an alternate to Batts and Blankets (Item 2), not for use with STC Ratings) — Spray applied cellulose material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. **NU-WOOL CO INC** — Cellulose insulation.
- Building Units* — Building units placed with the laminate face against or laminate face away from, and nailed to the wood framing with 1-7/8 in. long, 6d nails, spaced 6 in. OC on the perimeter and 12 in. OC in the field.
- LOUISIANA-PACIFIC CORP — Type LP FramBlock 1-Side
- Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. U301, U312 or U385. Nom. 5/8 in. thick, 4 ft. wide board, applied vertically over building units (Item 3) or attached directly to the wood studs (Configuration B) with joints staggered from joints of building units and nailed to studs and bearing plates through the building units 8 in. O.C. with 6d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam and 3/32 in. diam head. When constructing Configuration B, 1-7/8 in. long, 6d cement coated nails, spaced 8 in. O.C. shall be used to secure the gypsum board directly to the wood studs. When Item 1, resilient channels are used, gypsum panels applied vertically and screw attached with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. O.C.
- AMERICAN GYPSUM CO (UL Classification) — CNXK14196
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (UL Classification) — CNXK14197A
- CAROT MANUFACTURING LLC (UL Classification) — CNXK14210
- CERTAINTED GYPSUM INC (UL Classification) — CNXK14660
- CGC INC (UL Classification) — CNXK19751
- GEORGIA PACIFIC GYPSUM L L C (UL Classification) — CNXK14217
- NATIONAL GYPSUM CO (UL Classification) — CNXK14301
- PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM (UL Classification) — CNXK14204
- PANEL REY SA (UL Classification) — CNXK14196

Feedback

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (UL Classification) — CNXK14192

THAI GYPSUM PRODUCTS PCL (UL Classification) — CNXK14217

UNITED STATES GYPSUM CO (UL Classification) — CNXK14319

US BORAL DRYWALL SFZ LLC (UL Classification) — CNXK13848

US BORAL DRYWALL SFZ LLC (UL Classification) — CNXK13848

US MEXICO S A DE C V (UL Classification) — CNXK14089

2A. Gypsum Board* — Same as Item 2. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft. wide wallboard each side of studs. Attached to studs over inner layer 8 in. O.C. max, with 6d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam and 3/32 in. diam head.

2B. Gypsum Board* — (As an alternate to Item 2, not shown) — For Nonbearing Wall rating - Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. U301, U312 or U385, supplied by the Classified companies listed below shown in the Gypsum Board* (CNXK) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. O.C. with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

CGC INC

UNITED STATES GYPSUM CO

US BORAL DRYWALL SFZ LLC

US MEXICO S A DE C V

2C. Gypsum Board* — Same as Item 2B. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft. wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.

CGC INC

UNITED STATES GYPSUM CO

US BORAL DRYWALL SFZ LLC

US MEXICO S A DE C V

2D. Gypsum Board* — (As an alternate to Item 2, not shown) — For Nonbearing Wall rating - 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. O.C. with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO — Types AGI-1, M-Glass, AG-C, Lightloc

CAROT MANUFACTURING LLC — Type X, 5/8 Type X

CERTAINTED GYPSUM INC — Type C, Type X, 1, or Type SlatFX

GEORGIA PACIFIC GYPSUM L L C — Type TS-C

NATIONAL GYPSUM CO — Type FSK, Type PSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-6, Type FSX-C, Type FSW-C, Type FSWB-C, Type FSW-4, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2E. Gypsum Board* — Same as Item 2D. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft. wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.

AMERICAN GYPSUM CO — Types AGI-1, M-Glass, AG-C, Lightloc

CAROT MANUFACTURING LLC — Type X

CERTAINTED GYPSUM INC — Type C, Type X, 1

GEORGIA PACIFIC GYPSUM L L C — Type TS-C

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2F. Gypsum Board* — (As an alternate to Item 2, not shown) — For Nonbearing Wall rating - 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. O.C. with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 3. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA PACIFIC GYPSUM L L C — GreenGlan Type X, Type DGS

2G. Gypsum Board* — Same as Item 2F. For Bearing Wall rating — Additional layer of 5/8 in. thick, 4 ft. wide wallboard each side of assembly. Attached to studs over inner layer 8 in. O.C. max with 1-7/8 in. long Type W coarse thread gypsum panel steel screws.

GEORGIA PACIFIC GYPSUM L L C — GreenGlan Type X, Type DGS

2H. Gypsum Board* — (As an alternate to Items 2 through 2F) - 5/8 in. thick, 4 ft. wide, paper surfaced applied horizontally or vertically and secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. O.C.

CERTAINTED GYPSUM INC — Type SlatFX

GEORGIA PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Densifying Gypsum Board

NATIONAL GYPSUM CO — Type S2889

Feedback

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (UL Classification) — CNXK14192

GEORGIA PACIFIC GYPSUM L L C (UL Classification) — CNXK14217

THAI GYPSUM PRODUCTS PCL (UL Classification) — CNXK14217

UNITED STATES GYPSUM CO (UL Classification) — CNXK14319

US MEXICO S A DE C V (UL Classification) — CNXK14089

5. Joints and Nail Heads — Gypsum board joints covered with tape and joint compound. Nail heads covered with joint compound.

6. Resilient Channel — Optional - Not Shown - For use with gypsum boards in Configuration B, 25 MGS galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.

7. STC Rating — The STC Rating of Configuration A is 61 when it is constructed as described by Items 1 through 5, except A. Item 1, above - Wood Studs - Studs in opposite rows shall be staggered 8 in. OC.

8. Item 4, above - Gypsum Board - Min. weight 2.0 pcf.

7A. STC Rating — The STC Rating of Configuration B is 56 when it is constructed as described by Items 1 through 6, except A. Item 1, above - Wood Studs - Studs in opposite rows shall be staggered 8 in. OC.

8. Item 4, above - Gypsum Board - Min. weight 2.0 pcf.

8. Item 4, above - Resilient Channels - The gypsum board shall be attached to the studs with resilient channels.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2023-03-16

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Construction, Design, Systems, and/or Certifications (they) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data or drawings; 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."

Feedback

2I. Gypsum Board* — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically and secured as described in Item 2 or 2A.

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM — Type QuietRock ES

2J. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2I) — Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically and secured as described in Item 2 or 2A.

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM — Type QuietRock S27

2K. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in Item 2, spaced 24 in. OC. Outer layer attached per Item 2.

NATIONAL GYPSUM CO — Type FSW

2L. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. O.C. with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CERTAINTED GYPSUM INC — Type USFCA (flat riving) 31 min, Type USFCA, Type USFC-C/A, Type USFC-WO, Type USL24

3. Joints and Nail Heads — Gypsum board joints of outer layer covered with paper tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom. 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. Batts and Blankets* — (Optional) — Max 1 in. thickness glass or mineral fiber batt insulation.

See Batts and Blankets* (RZD) category for names of Classified companies.

4A. Fiber Spray* — (As an alternate to Batts and Blankets (Item 4)) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 2.5 lb/ft³ in accordance with the application instructions supplied with the product.

Applegate Greenfiber Acquisition LLC — IN2735, IN2745, IN2750LD, and Insulmax for use with wet or dry application. IN2760LD, IN2770LD, and IN2770LD are to be used for dry application only.

4B. Fiber Spray* — (As an alternate to Batts and Blankets (Item 4)) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

4C. Fiber Spray* — (As an alternate to Batts and Blankets (Item 4)) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft³.

INTERNATIONAL CELLULOSE CORP — Celulose.

4D. Fiber Spray* — (As an alternate to Batts and Blankets (Item 4)) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any ribs, woven or non-woven netting may be attached by any means possible to the outer face of the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lb/ft³.

APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2023-03-16

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Construction, Design, Systems, and/or Certifications (they) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data or drawings; 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."

Feedback

No	Date	By	Revisions	
			1	2
1				
2				
3				
4				
5				
6				

TOWNHOUSE 4BR

SOUTHERN IMPRESSION HOMES
 5711 Richard St., Suite 1
 Jacksonville, FL 32216

A. Project For:

Sheet Description
A3.2-UL DETAIL SHEET

Drawn by: _____ Checked by: _____
 Issued Date: _____ Scale (U.N.O.): _____
 Printed Date: _____ Sheet Number _____