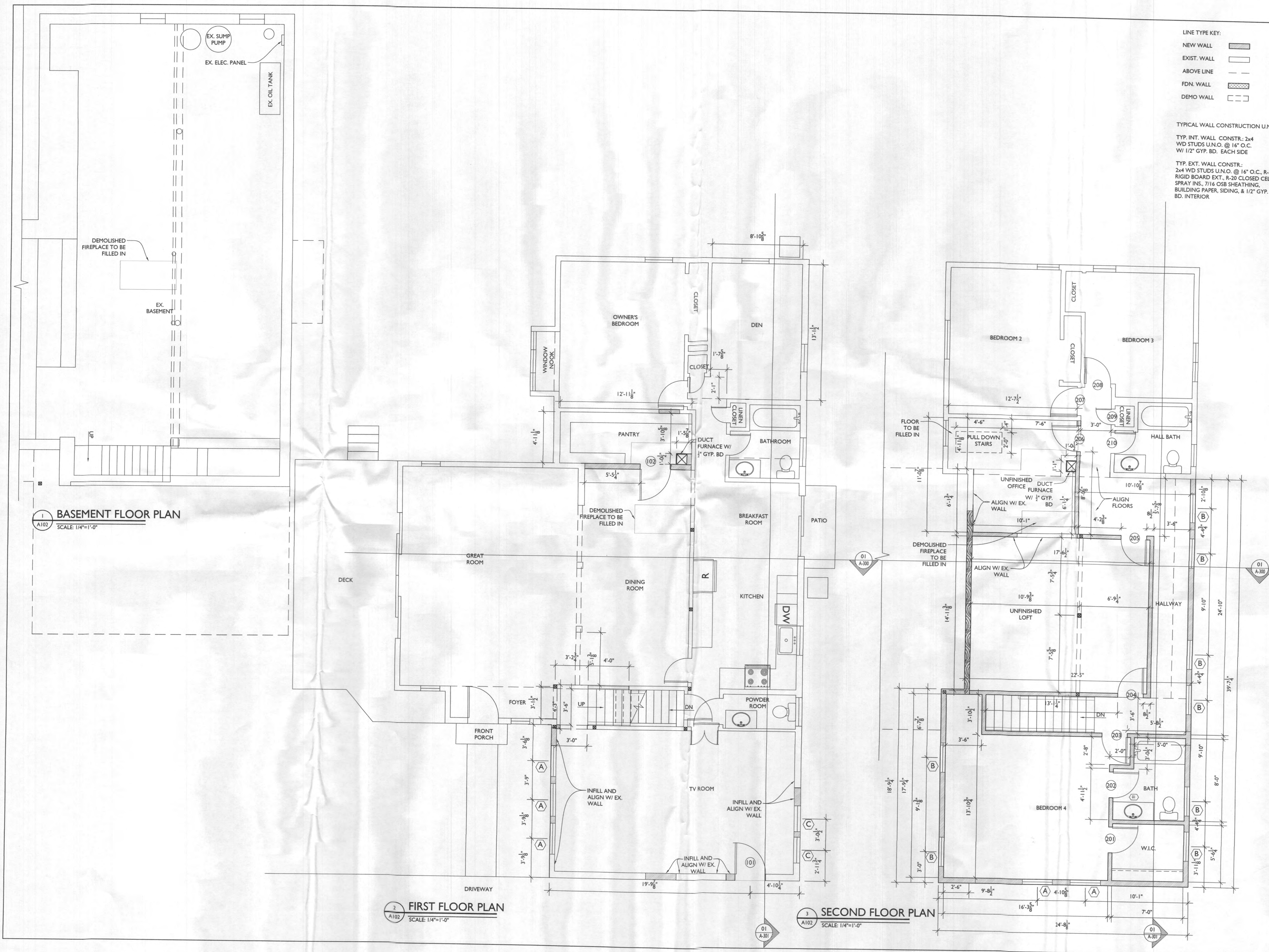




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PROJECT PHASE
PERMIT

PROJECT TITLE
THE MAYS RESIDENCE
7081 Pindell School Road
Fulton, MD 20759

REVISIONS		
SYMBOL	DATE	ISSUED FOR

PROJECT NUMBER 20-526
DATE 01/09/2023
SCALE AS NOTED

DRAWING TITLE
FLOOR PLANS

SHEET NUMBER
A-102

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (#a,*b,*c)	SPACING OF FASTENERS
ROOF			
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	3-8d (2½" x 0.113")	*****
2	CEILING JOISTS TO PLATE, TOE NAIL	3-8d (2½" x 0.113")	*****
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAP OVER PARTITIONS, FACE NAIL	3-10d	*****
4	COLLAR TIE RAFTER, FACE NAIL OR ½" x 20 GAGE RIDGE STRAP	3-10d (3" x 0.128")	*****
5	RAFTER TO PLATE, TOE NAIL	2-16d (3½" x 0.135")	*****
6	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS: TOE NAIL FACE NAIL	4-16d (3½" x 0.135") 3-16d (3½" x 0.135")	***** *****
WALL			
7	BUILT-UP CORNER STUDS	10d (3" x 0.128")	24" o.c.
8	BUILT-UP HEADER, TWO PIECES WITH ½" SPACER	16d (3½" x 0.135")	16" o.c. ALONG EACH EDGE
9	CONTINUED HEADER, TWO PIECES	16d (3½" x 0.135")	16" o.c. ALONG EACH EDGE
10	CONTINUOUS HEADER TO STUD, TOE NAIL	4-8d (2½" x 0.113")	*****
11	DOUBLE STUDS, FACE NAIL	10d (3" x 0.128")	24" o.c.
12	DOUBLE TOP PLATES, FACE NAIL	10d (3" x 0.128")	24" o.c.
13	DOUBLE TOP PLATES, MINIMUM 48-INCH OFFSET OF END JOINTS, FACE NAIL IN LAPPED AREA	8-16d (3½" x 0.135")	*****
14	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d (3½" x 0.135")	16" o.c.
15	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS	3-16d (3½" x 0.135")	16" o.c.
16	STUD TO SOLE PLATE, TOE NAIL	3-8d (2½" x 0.113") OR 2-16d (3½" x 0.135")	*****
17	TOP OR SOLE PLATE TO STUD, END NAIL	2-16d (3½" x 0.135")	*****
18	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS, FACE NAIL	3-10d (3" x 0.128")	*****
19	1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d (2½" x 0.113") 2 STAPLES ½"	*****
20	1" x 6" SHEATHING TO EACH BEARING, FACE NAIL	2-8d (2½" x 0.113") 2 STAPLES ½"	*****
21	1" x 8" SHEATHING TO EACH BEARING, FACE NAIL	2-8d (2½" x 0.113") 2 STAPLES ½"	*****
22	WIDER THAN 1" x 8" SHEATHING TO EACH BEARING, FACE NAIL	3-8d (2½" x 0.113") 3 STAPLES ½"	*****
FLOOR			
23	JOIST TO SILL OR GIRDER, TOE NAIL	3-8d (2½" x 0.113")	*****
24	1" x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d (2½" x 0.113") 2 STAPLES ½"	*****
25	2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d (3½" x 0.135")	*****
26	RIM JOIST TO TOP PLATE, TOE NAIL (ROOF APPLICATIONS ALSO)	8d (2½" x 0.113")*	6" o.c.
27	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2-16d (3½" x 0.135")	AT EACH BEARING
28	BUILT-UP GIRDERS AND BEAMS, 2 INCH LUMBER LAYERS	10d (3" x 0.128")	NAIL EACH LAYER AS FOLLOWS: 32" o.c. AT TOP AND BOTTOM AND STAGGERED. TWO NAILS AT ENDS AND AT EACH SPLICE.
29	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d (3½" x 0.135")	AT EACH JOIST OR RAFTER

TABLE R602.3(1) - CONTINUED FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (*b,*c,*e)	SPACING OF FASTENERS
			EDGES (INCHES)* INTERMEDIATE SUPPORTS*c,*e (INCHES)
WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING			
30	½"-½"	6d common (2" x 0.113") nail (subfloor wall)* 8d common (2½" x 0.131") nail (roof)	6 12" g
31	¾"-½"	6d common (2" x 0.113") nail (subfloor, wall) 8d common (2½" x 0.131") nail (roof)*f	6 12" g
32	1½"-1"	8d common (2½" x 0.131")	6 12" g
33	½"-1½"	10d common (3" x 0.148") nail or 8d common (2½" x 0.131") deformed nail	6 12
OTHER WALL SHEATHING*h			
34	½" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	½" galvanized roofing nail, ¾" crown or 1" crown staple 16ga., ½" long	3 6
35	¾" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1½" galvanized roofing nail, ¾" crown or 1" crown staple 16ga., ½" long	3 6
36	½" GYPSUM SHEATHING*d	½" galvanized roofing nail, staple galvanized, ½" long; ½" screws, Type W or S	7 7
37	¾" GYPSUM SHEATHING *d	1½" galvanized roofing nail; staple galvanized, 1½" long; ½" screws, Type W or S	7 7
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
38	¾" AND LESS	6d deformed (2" x 0.120") nail or 8d common (2½" x 0.131") nail	6 12
39	¾"-1"	8d common (2½" x 0.131") nail or 8d deformed (2½" x 0.120") nail	6 12
40	½"-1½"	10d common (3" x 0.148") nail or 8d deformed (2½" x 0.120") nail	6 12

*a - All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inches or less.

*b - Staples are 16 ga. wire and have a minimum ¾ inch on diameter crown width.

*c - Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

*d - Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically.

*e - Spacing of fasteners not included in this table shall be based on Table R602.3(2).

*f - For regions having a basic wind speed of 110mph or greater, 8d deformed (2½" x 0.120") nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.

*g - For regions having a basic wind speed of 100mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4-inches on center to gable end wall framing.

*h - Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.

*i - Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.

TABLE R602.10.4.1 BRACING METHODS			
METHOD	MATERIAL	MINIMUM THICKNESS	CONNECTION CRITERIAL
CS-WSP	WOOD STRUCTURAL PANEL	¾"	6d common (2" x 0.113") nails at 6" spacing (panel edges) and at 12" spacing (intermediate supports) or 16ga. x 1½" staples at 3" spacing (panel edges) and 6" spacing (intermediate supports) See Method CS-WSP
CS-G	WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS AND SUPPORTING ROOF LOAD ONLY*a,*b	¾"	
CS-PF	CONTINUOUS PORTAL FRAME	See Section R602.10.4.1.1	See section R602.10.4.1.1

*a - Applies to one wall of a garage only.

*b - Roof covering dead loads shall be 3 psf or less.

TABLE N1102.4.1.1 AIR BARRIER AND INSULATION INSPECTION	
COMPONENT	CRITERIA
AIR BARRIER AND THERMAL BARRIER	EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS IS INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH BUILDING ENVELOPE AIR BARRIER. BREAKS OR JOINTS IN THE AIR BARRIER ARE FILLED OR REPAIRED. AIR-PERMEABLE INSULATION IS NOT USED AS A SEALING MATERIAL.
CEILING/ ATTIC	AIR BARRIER IN ANY DROPPED CEILING/ SOFFIT IS SUBSTANTIALLY ALIGNED WITH INSULATION AND ANY GAPS ARE SEALED. ATTIC ACCESS (EXCEPT UNVENTED ARRIS), KNEE WALL DOOR, OR DROP DOWN STAIR IS SEALED.
WALLS	CORNERS AND HEADERS ARE INSULATED. JUNCTION OF FOUNDATION AND SILL PLATE IS SEALED.
WINDOWS AND DOORS	SPACE BETWEEN WINDOW/ DOOR JAMBS AND FRAMING IS SEALED.
RIM JOISTS	RIM JOISTS ARE INSULATED AND INCLUDE AN AIR BARRIER.
FLOORS (including above garage and cantilevered floors)	INSULATION IS INSTALLED TO MAINTAIN PERMANENT CONTACT WITH UNDERSIDE OF SUBFLOOR DECKING. AIR BARRIER IS INSTALLED AT ANY EXPOSED EDGE OF FLOOR.
CRAWLSPACE WALLS	INSULATION IS PERMANENTLY ATTACHED TO WALLS. EXPOSED EARTH IN UNVENTED CRAWLSPACES IS COVERED WITH CLASS I VAPOR RETARDER WITH OVERLAPPING JOINTS TAPE.
SHAFTS, PENETRATIONS	DUCT SHAFTS, UTILITY PENETRATIONS, KNEE WALLS AND FLUE SHAFTS OPENING TO EXTERIOR OR UNCONDITIONED SPACE ARE SEALED.
NARROW CAVITIES	BATTS IN NARROW CAVITIES ARE CUT TO FIT, OR NARROW CAVITIES ARE FILLED BY SPRAYED/ BLOWN INSULATION.
GARAGE SEPARATION	AIR SEALING IS PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.
RECESSED LIGHTING	RECESSED LIGHT FIXTURES ARE AIRTIGHT, IC RATED AND SEALED TO DRYWALL. EXCEPTION -- FIXTURES IN CONDITIONED SPACE.
PLUMBING AND WIRING	INSULATION IS PLACED BETWEEN OUTSIDE AND PIPED. BATT INSULATION IS CUT TO FIT AROUND WIRING AND PLUMBING. OR SPRAYED/ BLOWN INSULATION EXTENDS BEHIND PIPING AND WIRING.
SHOWER/TUB ON EXTERIOR WALL	SHOWERS AND TUBS ON EXTERIOR WALLS HAVE INSULATION AND AN AIR BARRIER SEPARATING THEM FROM THE EXTERIOR WALL.
ELECTRICAL/PHONE BOX ON EXTERIOR WALL	AIR BARRIER EXTENDS BEHIND BOXES OR AIR SEALED TYPE BOXES ARE INSTALLED.
COMMON WALL	AIR BARRIER IS INSTALLED IN COMMON WALL BETWEEN DWELLING UNITS.
HVAC REGISTER BOOTS	HVAC REISTER BOOTS THAT PENETRATE BUILDING ENVELOPE ARE SEALED TO SUBFLOOR OR DRYWALL.
FIREPLACE	FIREPLACE WALLS INCLUDE AN AIR BARRIER.

PRESCRIPTIVE COMPONENT REQUIREMENTS - METHOD 1

BASED ON R-VALUES OR U-FACTORS

1. THE EXACT LOCATION OF ALL OF THE BUILDING THERMAL ENVELOPE SHALL BE MARKED OUT ON THE PLANS, DETAILS, AND CROSS-SECTIONS.

2. PROVIDE ALL INSULATION R-VALUES OR U-FACTORS, MATERIAL, AND LOCATIONS TO BE INSTALLED (WALLS, CEILINGS, CANTILEVER FLOORS, FLOORS OVER GARAGE, CRAWL SPACE, BASEMENT WALLS, ETC.) PER TABLES 402.1.1 OR 402.1.3 FOR STEEL-FRAMED CONSTRUCTION.

3. PROVIDE ALL PENETRATION U-FACTORS FOR ALL GLAZING FOR EACH WINDOW AND DOOR PER TABLE 402.1.1 (SCHEDULE SUPPLIED BY DESIGNER).

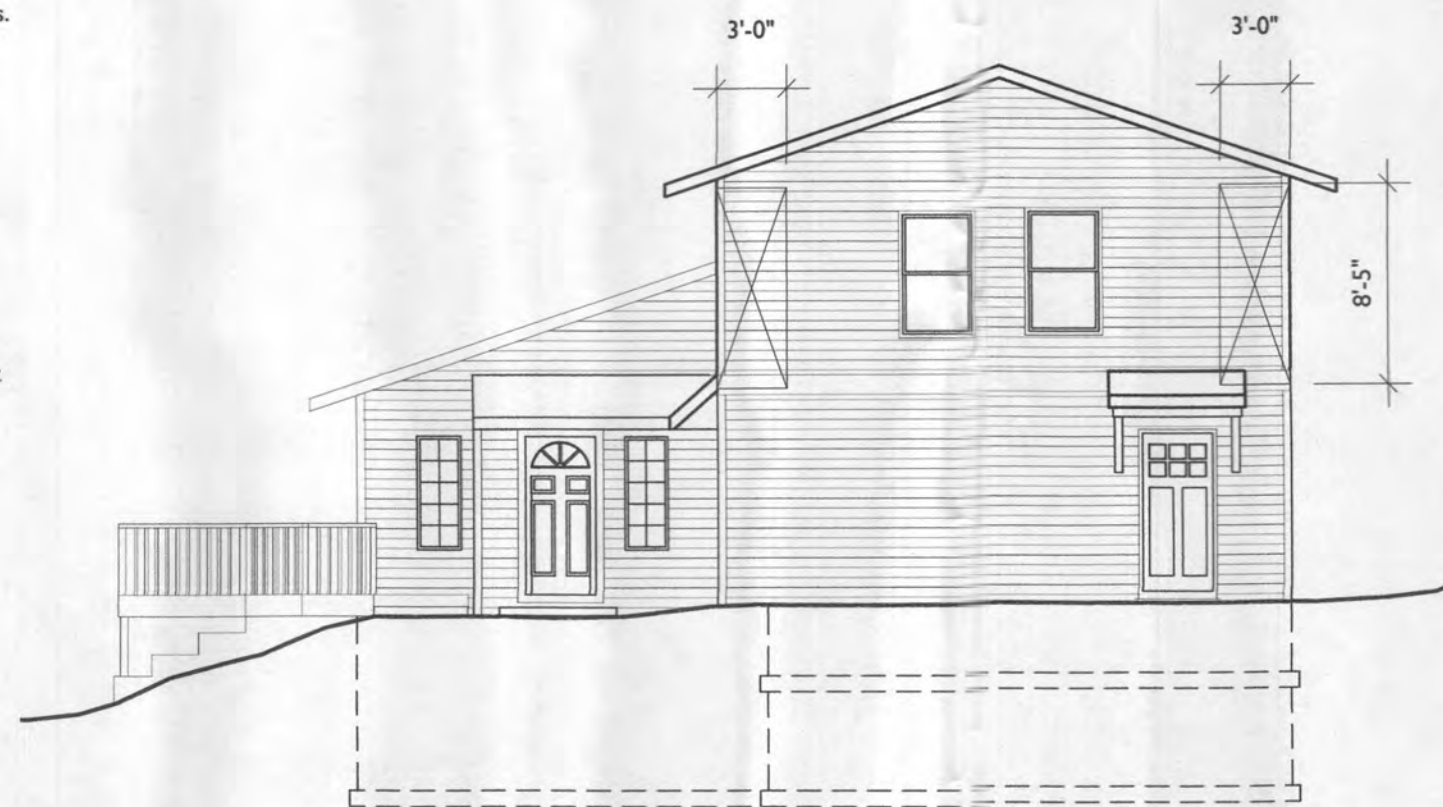
4. INDICATE HOW ALL AREAS LISTED IN SECTION 402.4.2 (TABLE) WILL BE PROTECTED AGAINST AIR LEAKAGE.

5. INDICATE IF CRAWLSPACE(S) ARE CONDITIONED OR VENTED, MUST HAVE VAPOR BARRIER IF CONDITIONED.

6. INDICATE DUCT INSULATION R-VALUES, MINIMUM R-6, R-8 IN ATTICS.

7. INDICATE DUCT SEALING METHODS PER IRC M1601.4.1

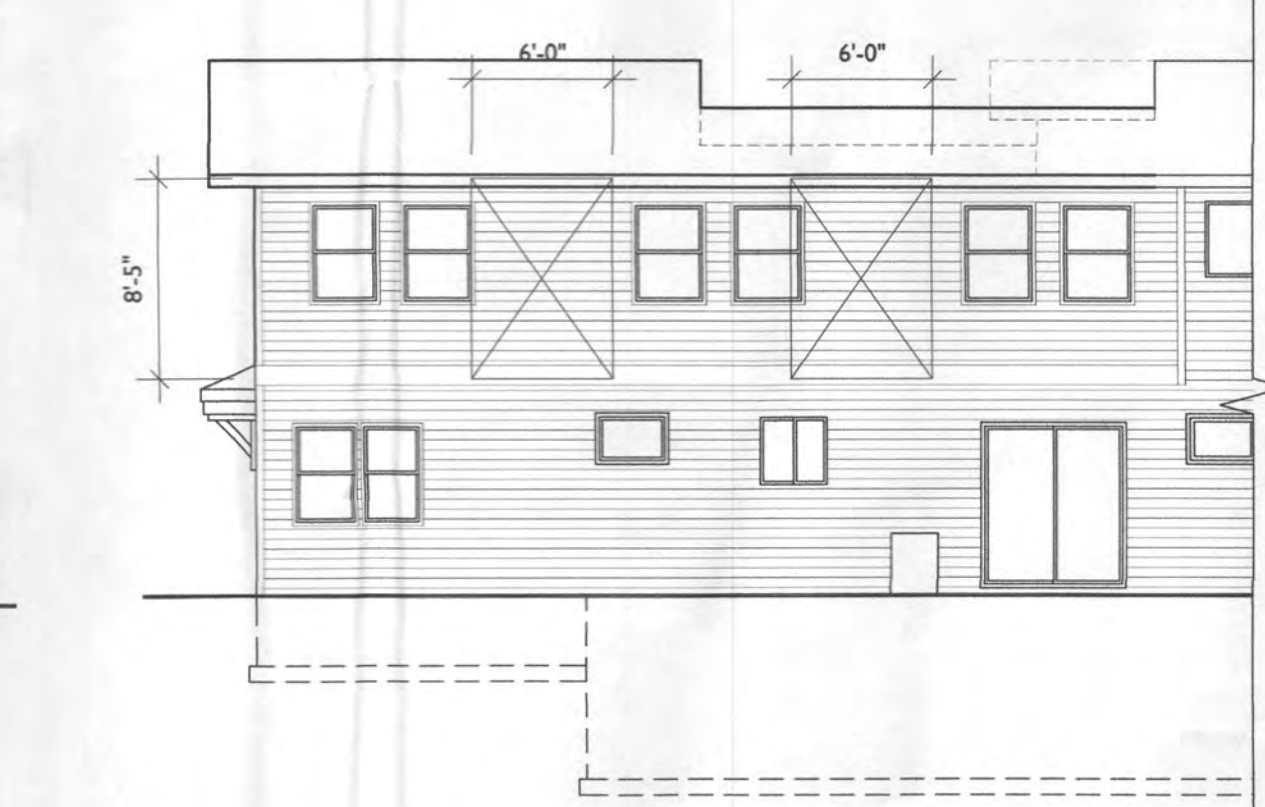
8. INDICATE LOCATION OF HVAC EQUIPMENT ON PLANS (INSIDE OR OUTSIDE THE ENVELOPE)



3
A103
FRONT LATERAL BRACING ELEVATION
SCALE: 1/8"=1'-0"



4
A103
LEFT LATERAL BRACING ELEVATION
SCALE: 1/8"=1'-0"



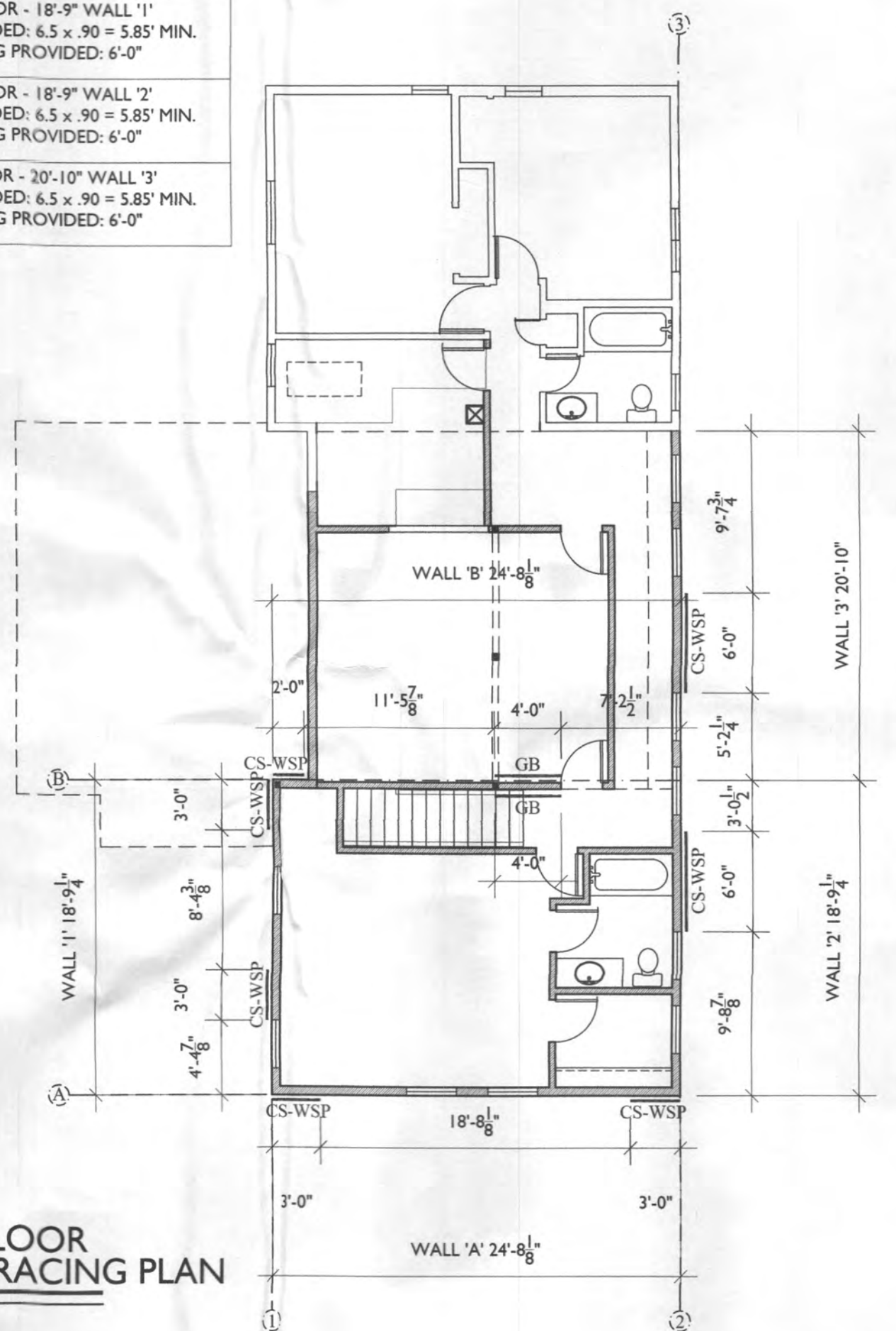
5
A103
RIGHT LATERAL BRACING ELEVATION
SCALE: 1/8"=1'-0"

WALL BRACING NEEDED & PROVIDED
IRC R602.10.4 WALL BRACING METHOD
BRACED PANEL MIN WIDTH FOR
8' H. CLG = 24"
CS-PF MIN WIDTH FOR 8' CLG. = 16"

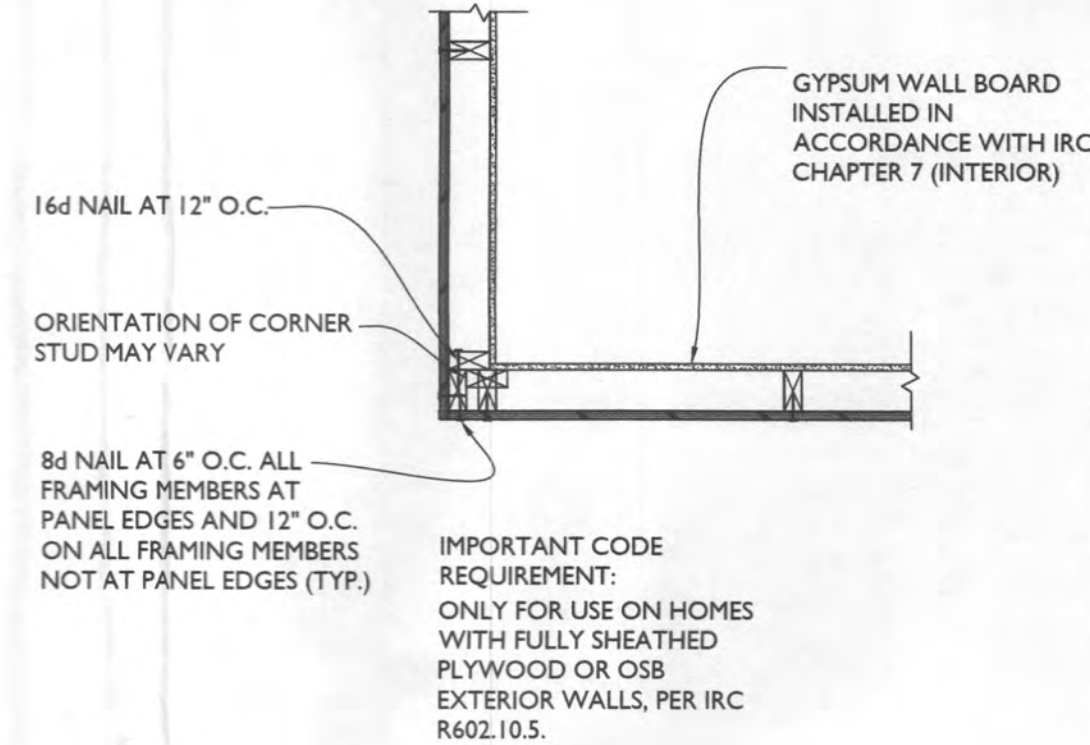
2ND FLOOR - 24'-8" WALL 'A' BRACING NEEDED: 6.5 x .90 = 5.85' MIN. BRACING PROVIDED: 6'-0"	2ND FLOOR - 18'-9" WALL '1' BRACING NEEDED: 6.5 x .90 = 5.85' MIN. BRACING PROVIDED: 6'-0"
2ND FLOOR - 24'-8" WALL 'B' BRACING NEEDED: 6.5 x .90 = 5.85' MIN. BRACING PROVIDED: 6'-0"	2ND FLOOR - 18'-9" WALL '2' BRACING NEEDED: 6.5 x .90 = 5.85' MIN. BRACING PROVIDED: 6'-0"
2ND FLOOR - 20'-10" WALL '3' BRACING NEEDED: 6.5 x .90 = 5.85' MIN. BRACING PROVIDED: 6'-0"	

BRACED WALL PANEL
WOOD STRUCTURAL PANEL (UNLESS OTHERWISE NOTED)

1
A103
OUTSIDE CORNER DETAIL
PER IRC R602.10.5
SCALE: 3/4"=1'-0"



2
A103
SECOND FLOOR LATERAL BRACING PLAN
SCALE: 1/8"=1'-0"



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PROJECT PHASE

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PROJECT TITLE

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RESIDENCE

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Fulton, MD 20759

REVISIONS

SYMBOL	DATE	ISSUED FOR

PROJECT NUMBER 20-526
DATE 01/09/2023
SCALE AS NOTED

DRAWING TITLE

LATERAL BRACING PLANS + ELEV.

SHEET NUMBER

A-103



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DATE 01/09/2023

SCALE AS NOTED

DRAWING TITLE

ELEVATIONS

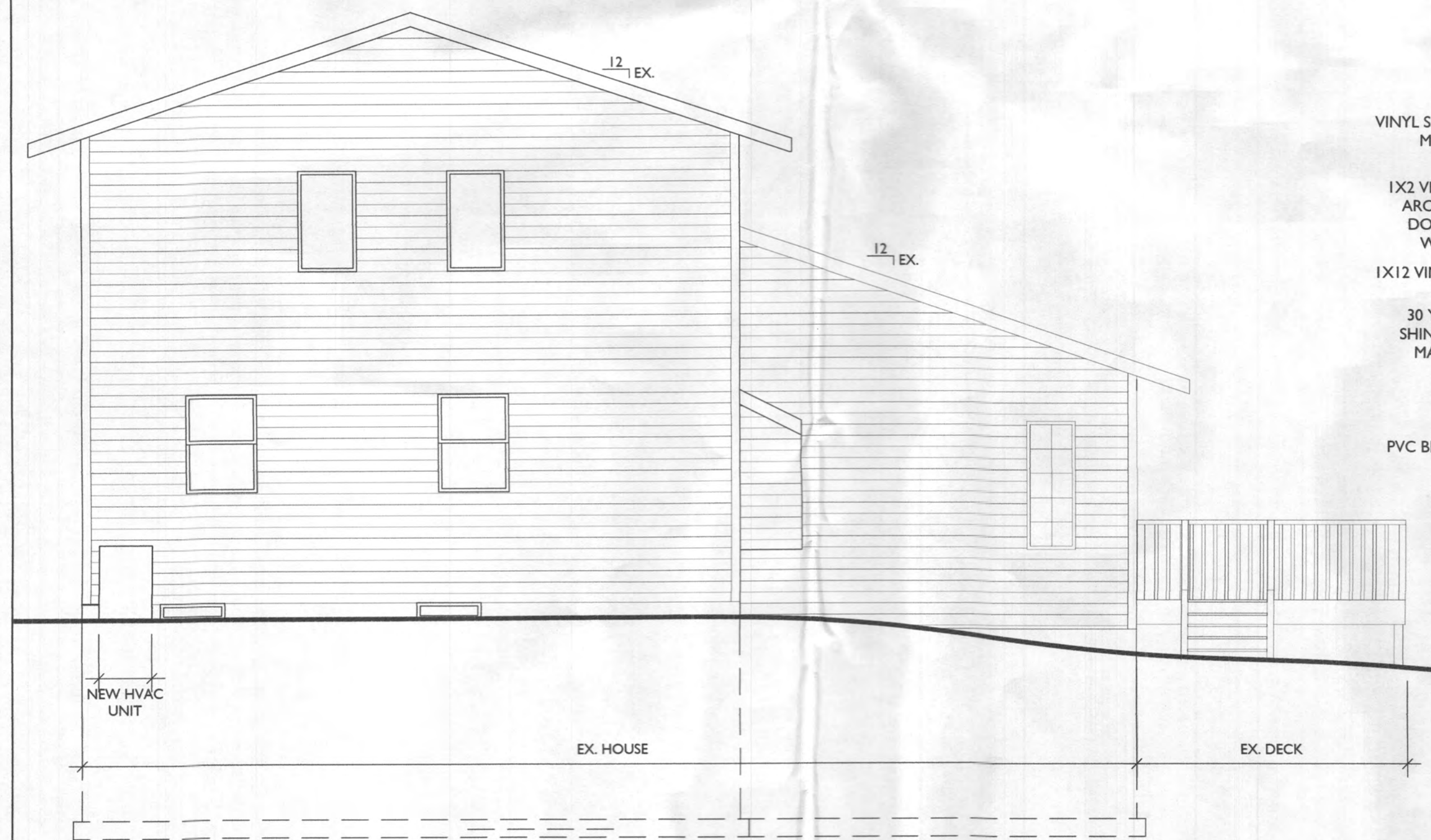
SHEET NUMBER

A-200



1 FRONT ELEVATION
A200 SCALE: 1/4"=1'-0"

2 LEFT ELEVATION
A200 SCALE: 1/4"=1'-0"



3 BACK ELEVATION
A200 SCALE: 1/4"=1'-0"



4 RIGHT ELEVATION
A200 SCALE: 1/4"=1'-0"



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Fulton, MD 20759

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DATE 01/09/2023
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DRAWING TITLE
ELEVATIONS

SHEET NUMBER
A-200



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REVISIONS

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PROJECT NUMBER	20-526
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DATE	01/09/2023
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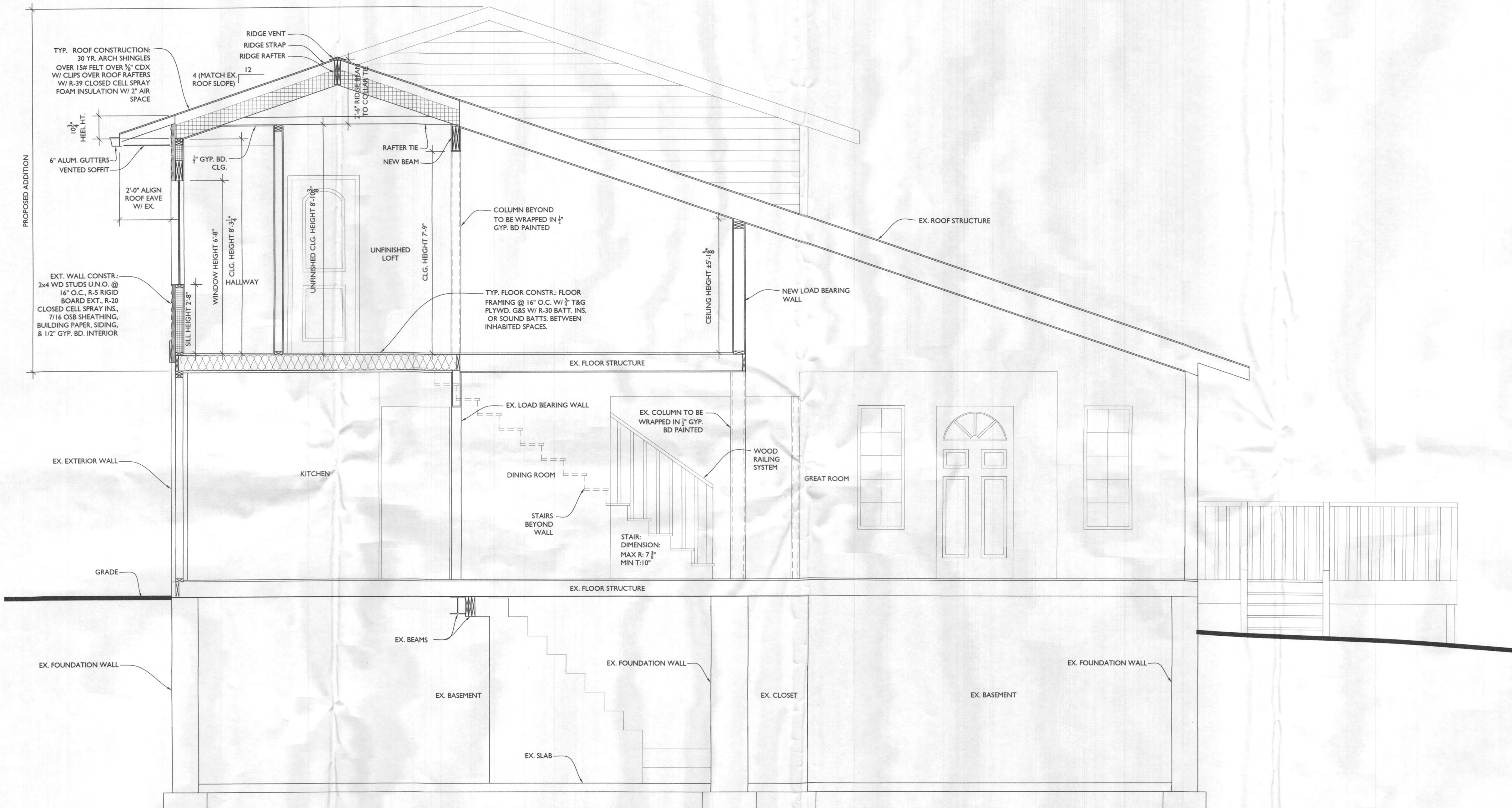
SCALE	AS NOTED
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DRAWING TITLE

BUILDING
SECTION

SHEET NUMBER

A-300



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



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DATE 01/09/2023

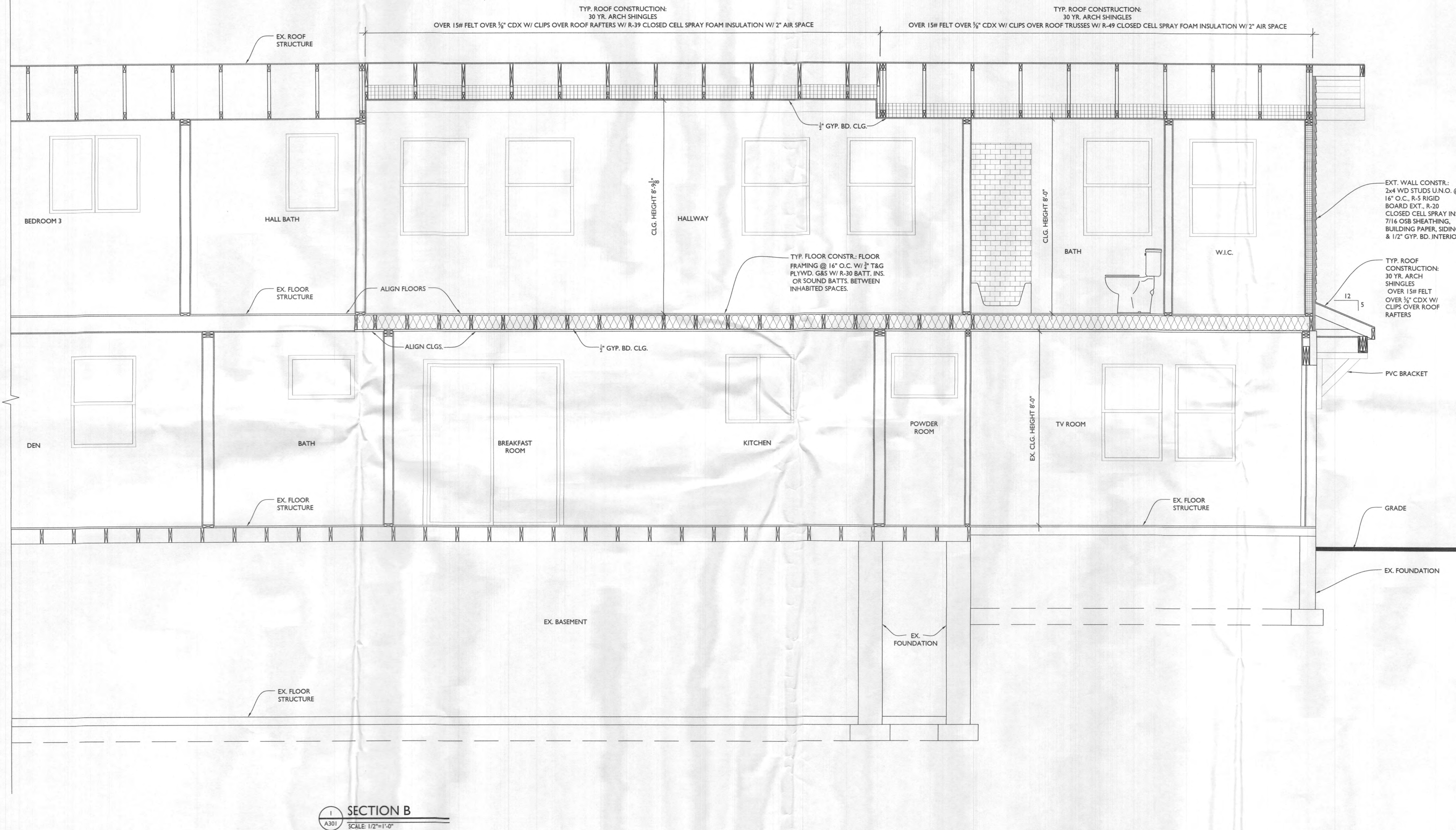
SCALE AS NOTED

DRAWING TITLE

BUILDING
SECTION B

SHEET NUMBER

A-301



LINE TYPE KEY:

NEW WALL	
EXIST. WALL	
ABOVE LINE	
FDN. WALL	
DEMO WALL	

TYPICAL WALL CONSTRUCTION U.N.O.

TYP. INT. WALL CONSTR.: 2x4
WD STUDS U.N.O. @ 16" O.C.
W/ 1/2" GYP. BD. EACH SIDE

TYP. EXT. WALL CONSTR.:
2x4 WD STUDS U.N.O. @ 16" O.C., R-5
RIGID BOARD EXT., R-20 CLOSED CELL
SPRAY INS., 7/16 OSB SHEATHING,
BUILDING PAPER, SIDING, & 1/2" GYP.
BD. INTERIOR

ELECTRICAL LEGEND

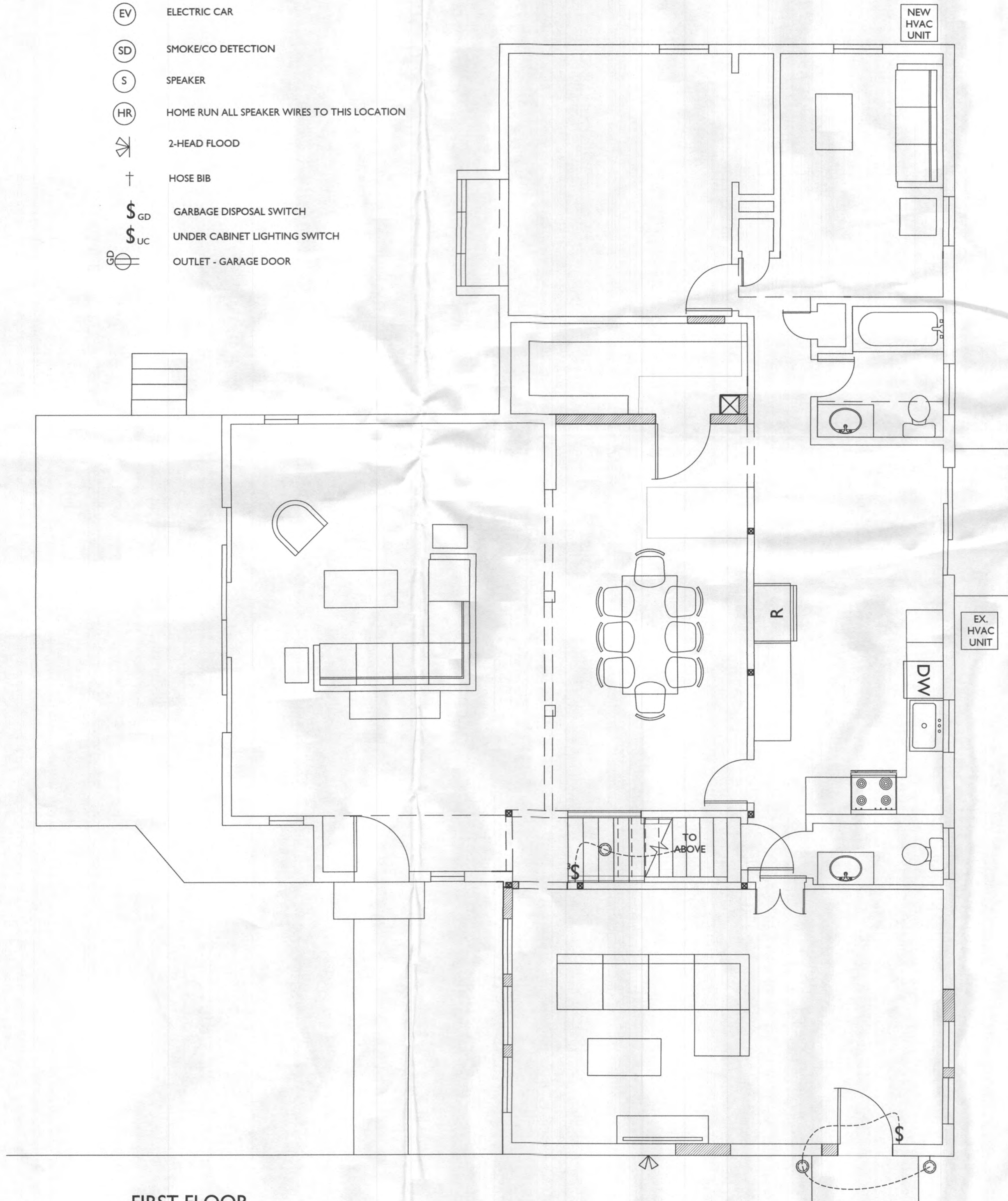
	SWITCH
	OUTLET
	GFI OUTLET
	6" RECESSED LED CLG. LIGHT
	LED WALL MOUNT FIXTURE
	LED CLG. FIXTURE
	EXHAUST FAN
	QUIET CLG. FAN W/ LIGHT (OSCI)
	CABLE TV
	THERMOSTAT
	CAT 6 LINE
	FLOOR OUTLET
	ELECTRIC CAR
	SMOKE/CO DETECTION
	SPEAKER
	HOME RUN ALL SPEAKER WIRES TO THIS LOCATION
	2-HEAD FLOOD
	HOSE BIB
	GARBAGE DISPOSAL SWITCH
	UNDER CABINET LIGHTING SWITCH
	OUTLET - GARAGE DOOR

ELECTRICAL NOTES:

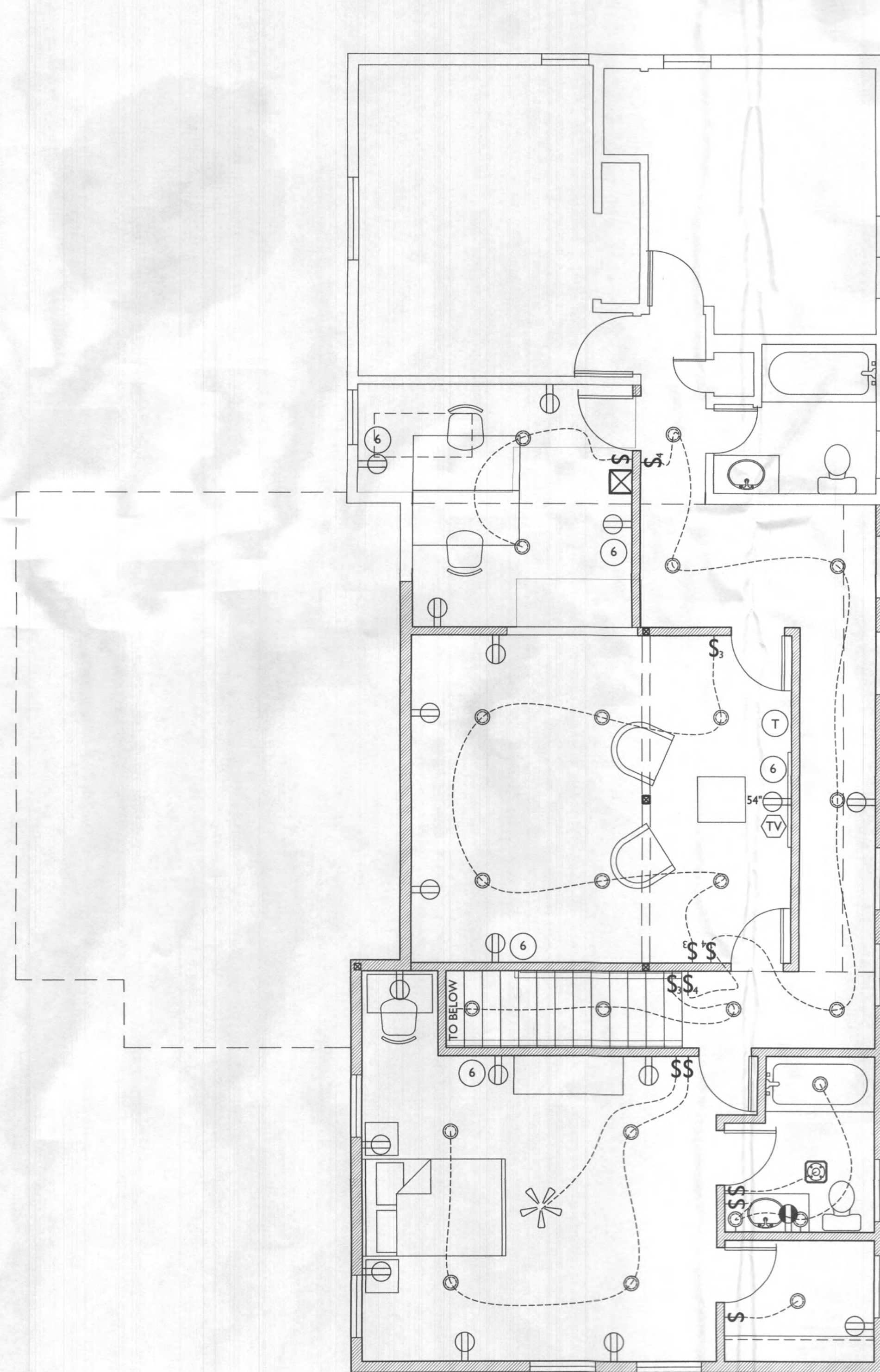
1. REQUESTED OUTLETS SPECIFIED NOTED ON ELEC. LAYOUT. ALL OTHER OUTLETS PER CODE PER CODE @ 18" H, 42" H ABOVE COUNTERTOPS UNLESS OTHERWISE NOTED.
2. MOUNT LIGHT SWITCHES @ 42" H. MAX. ROCKER-TYPE
3. PROVIDE HARD-WIRED SMOKE DETECTORS PER CODE
4. EXHAUST FANS W/ HUMIDISTAT (MAX. 7 SONE), EXHAUST TO EXTERIOR
5. HINGE SWITCHES IN ALL CLOSETS U.N.O.
6. ALL FIXTURES ON DIMMERS
7. CAT 6 HUB TO BE REPLACED
8. HARDWIRED SMOKE DETECTOR W/INTERNAL BATTERY & CARBON MONOXIDE DETECTOR (COMBINED UNIT) TO BE INSTALLED IN ACCORDANCE WITH SECTION R315 OF THE 2018 IRC
9. LED RECESSED LIGHTS SPECS:
2700K-2900K FOR LIVING ROOMS & BEDROOMS
2900K-3500K FOR KITCHEN, OFFICE AND BASEMENTS

HVAC NOTES:

1. EXISTING HVAC SYSTEM TO SERVICE BASEMENT AND FIRST FLOOR
2. NEW HVAC SYSTEM TO SERVICE SECOND FLOOR TO BE INSTALLED W/ NEW HEAT PUMP (TO BE LOCATED IN EX. ATTIC)
3. ADD NEW HVAC CONDENSER UNIT TO THE LEFT SIDE OF HOUSE
4. NEW THERMOSTAT TO BE ADDED ON SECOND FLOOR WHERE INDICATED



1
E100
FIRST FLOOR
ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



2
E100
SECOND FLOOR
ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



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PROJECT PHASE

PERMIT

PROJECT TITLE

THE
MAYS
RESIDENCE

7081 Pindell School Road
Fulton, MD 20759

REVISIONS

SYMBOL	DATE	ISSUED FOR

PROJECT NUMBER 20-526

DATE 01/09/2023

SCALE AS NOTED

DRAWING TITLE

ELECTRICAL
PLANS

SHEET NUMBER

E-100