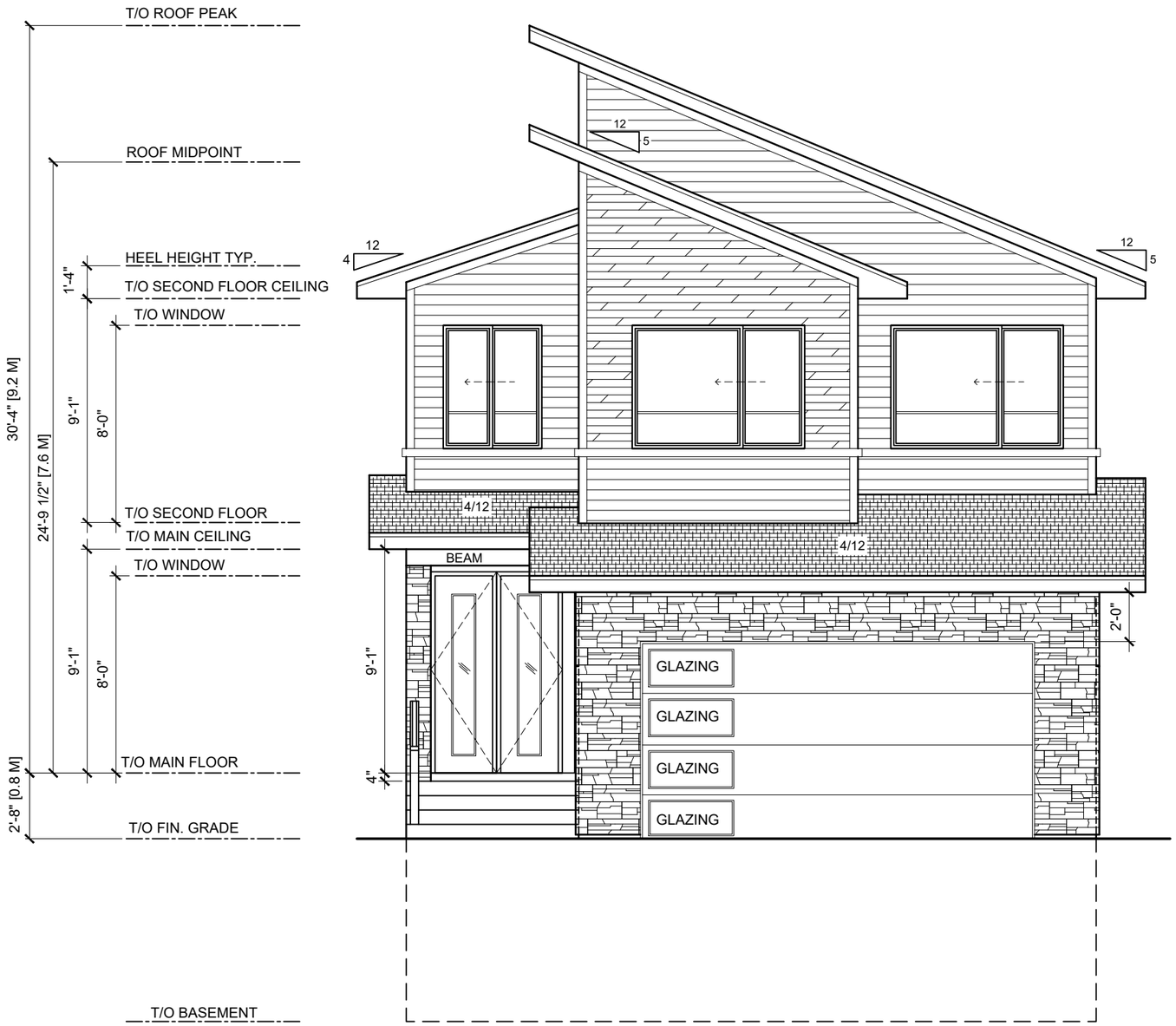


ROOF PITCH AS SHOWN

ASPHALT SHINGLES ROOFING

24" OVERHANGS (TYP.)

8" FASCIA (TYP.)

4" SHADOW BOARD

4" TRIM ,2" PROUD

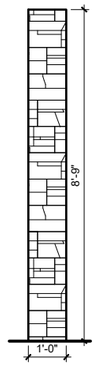
WOODGRAIN FINISH CLADDING
-AS SHOWN

VINYL SIDING C/W VINYL CORNERS
-AS SHOWN

MANUFACTURED STONE
W/ 4"TRIM (~ 100.48 SQ.FT.)

COLUMN CONSTRUCTION:
-12"X12" MANUFACTURED STONE
-6"X6" WOOD POST,BUILT UP
-AS SHOWN/SEE DETAILS

8" DECORATIVE BEAM @ VERANDA



TYP. COLUMN DETAIL
SCALE: 1/4 " = 1'-0"

VERANDA ROOF DIMENSION
IS FROM UNDERSIDE OF SOFFIT
TO TOP OF MAIN FLOOR

GRADES ARE ESTIMATED
-VERIFY WITH PLOT PLAN

PROTECH HOME DESIGN
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1324 Windermere Way SW, Edmonton, AB T6W 0P1
phone: 780-970-1938

CLIENT:
SAMAR HOMES
PHONE: 780 308 9000

DRAWING TITLE
FRONT ELEVATION
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

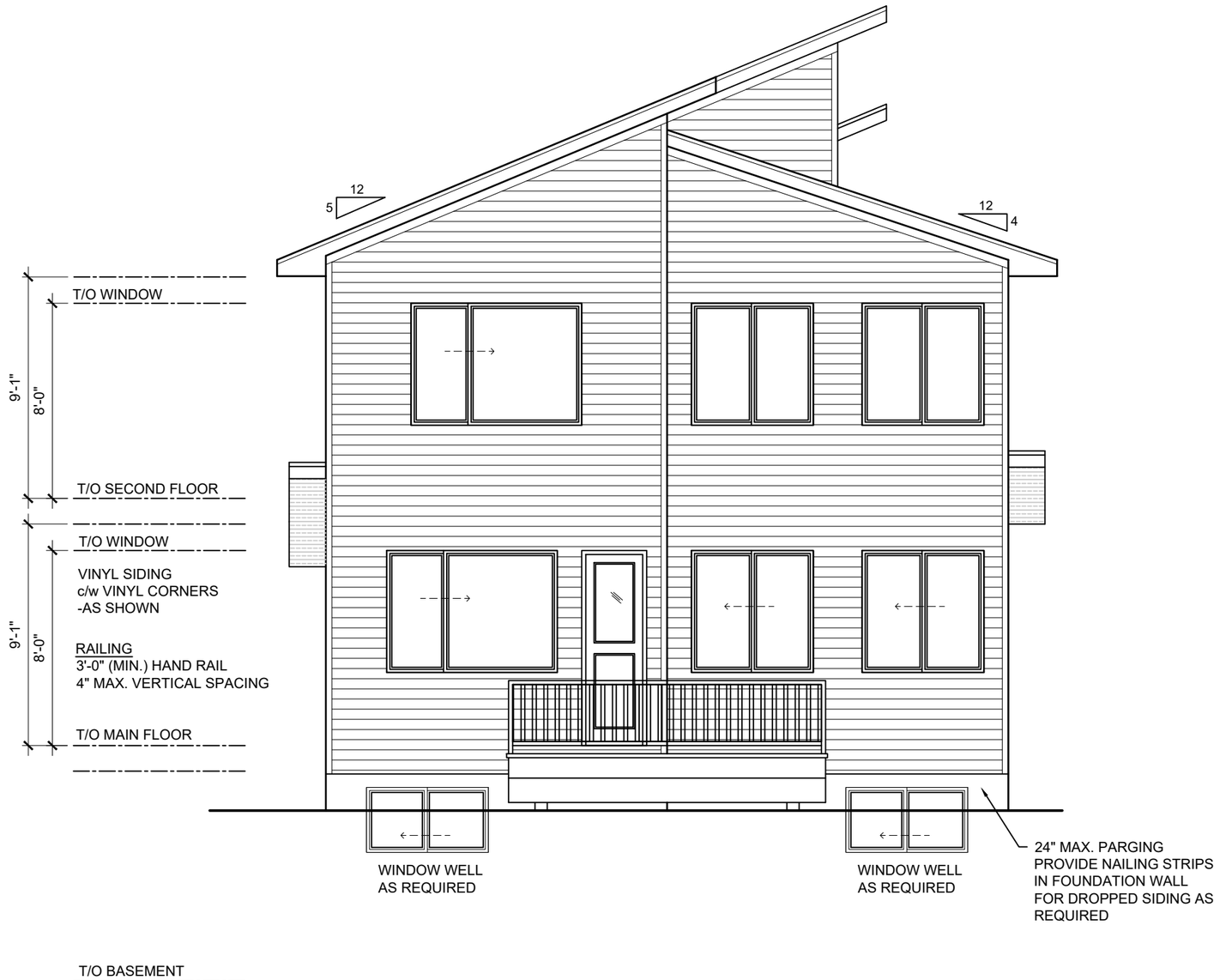
SUBDIVISION:IRVINE CREEK

LOT:25	BLOCK:2	PLAN: 232 1182

6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024
DESIGNER:SHAMILA
DATE MODIFIED
001 FEB-08-2024 -SR
002 FEB-13-2024 -SR
003 MAR-06-2024-KA
004 MAR-07-2024-SR
005 APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-1



IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGNER IN THE EVENT OF DISCREPANCIES.
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND OTHER DATA NOTED HEREIN WITH CONDITIONS ON SITE.
WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
ENGINEERING AND ANY ENGINEER'S STAMPS TO BE THE SOLE RESPONSIBILITY OF THE BUILDER / CONTRACTOR / OWNER.

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DRAWING TITLE
REAR ELEVATION
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

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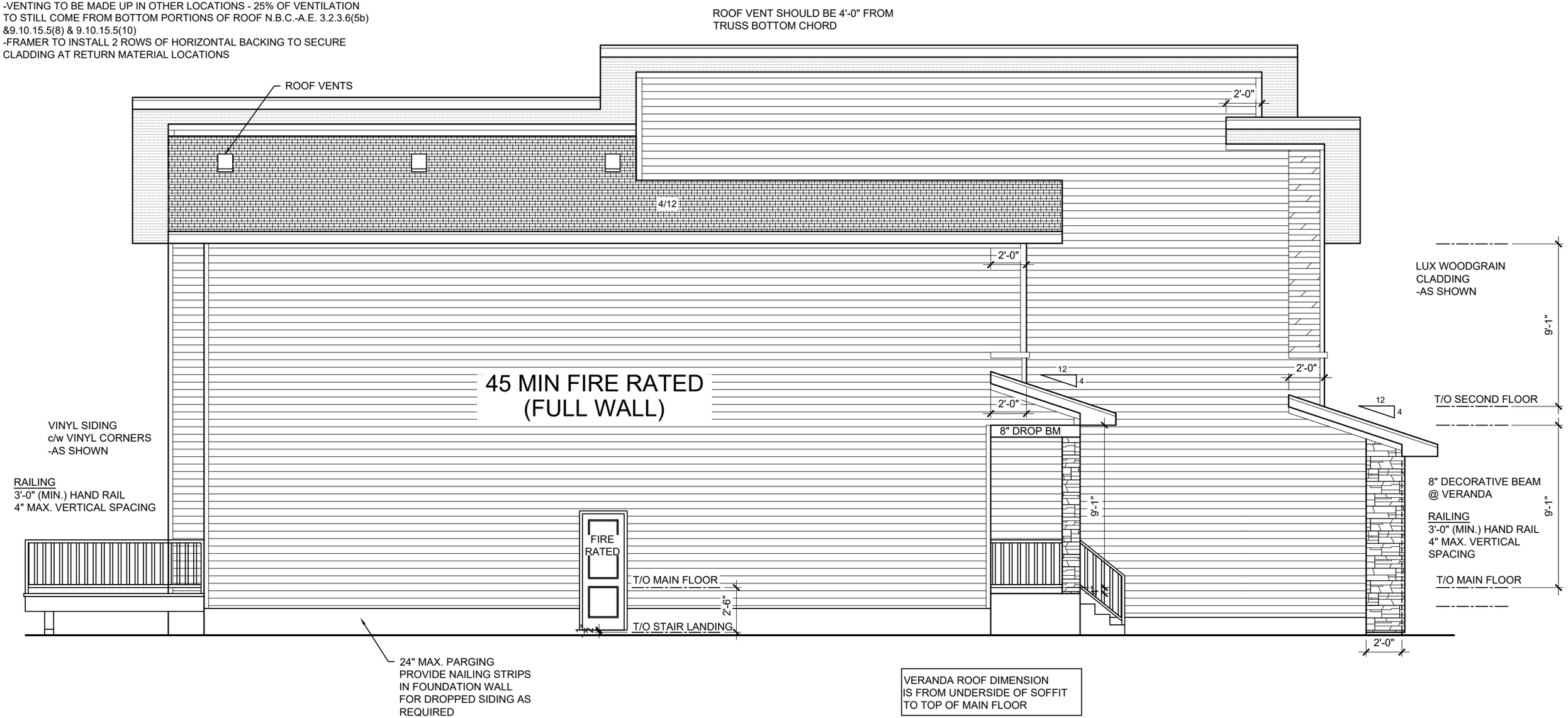
005 APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-2

ELEVATIONS NOTES:
-CANTILEVERS WITHIN 1.2m OF THE PROPERTY LINE MUST USE NON-COMBUSTIBLE CLADDING OR MUST HAVE 12.7mm THICK EXTERIOR GYPSUM BOARD UNDER CLADDING & MAINTAIN A 45 MINUTE FIRE-RESISTANCE RATING OR WALL ASSEMBLY - N.B.C. -A.E. 9.10.15.5(7).
-CANTILEVERS WITHIN 1.2m OF THE PROPERTY LINE & WITH THE UNDERSIDE OF THE CANTILEVER MORE THAN 0.6m ABOVE GRADE MUST BE PROTECTED IN THE SAME WAY AS PROJECTING SOFFITS - N.B.C.-A.E. 3.2.3.6.5b & 9.10.15.5(8) & 9.10.15.5(10)
-SOFFITS WITHIN 1.2m OF PROPERTY LINE TO BE 0.44mm NON-VENTED ALUMINUM
-VENTING TO BE MADE UP IN OTHER LOCATIONS - 25% OF VENTILATION TO STILL COME FROM BOTTOM PORTIONS OF ROOF N.B.C.-A.E. 3.2.3.6(5b) &9.10.15.5(8) & 9.10.15.5(10)
-FRAMER TO INSTALL 2 ROWS OF HORIZONTAL BACKING TO SECURE CLADDING AT RETURN MATERIAL LOCATIONS



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FOUNDATION

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DRAWING TITLE
LEFT ELEVATION
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024
DESIGNER:SHAMILA
DATE MODIFIED
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004 MAR-07-2024-SR
005 APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-3

ELEVATIONS NOTES:

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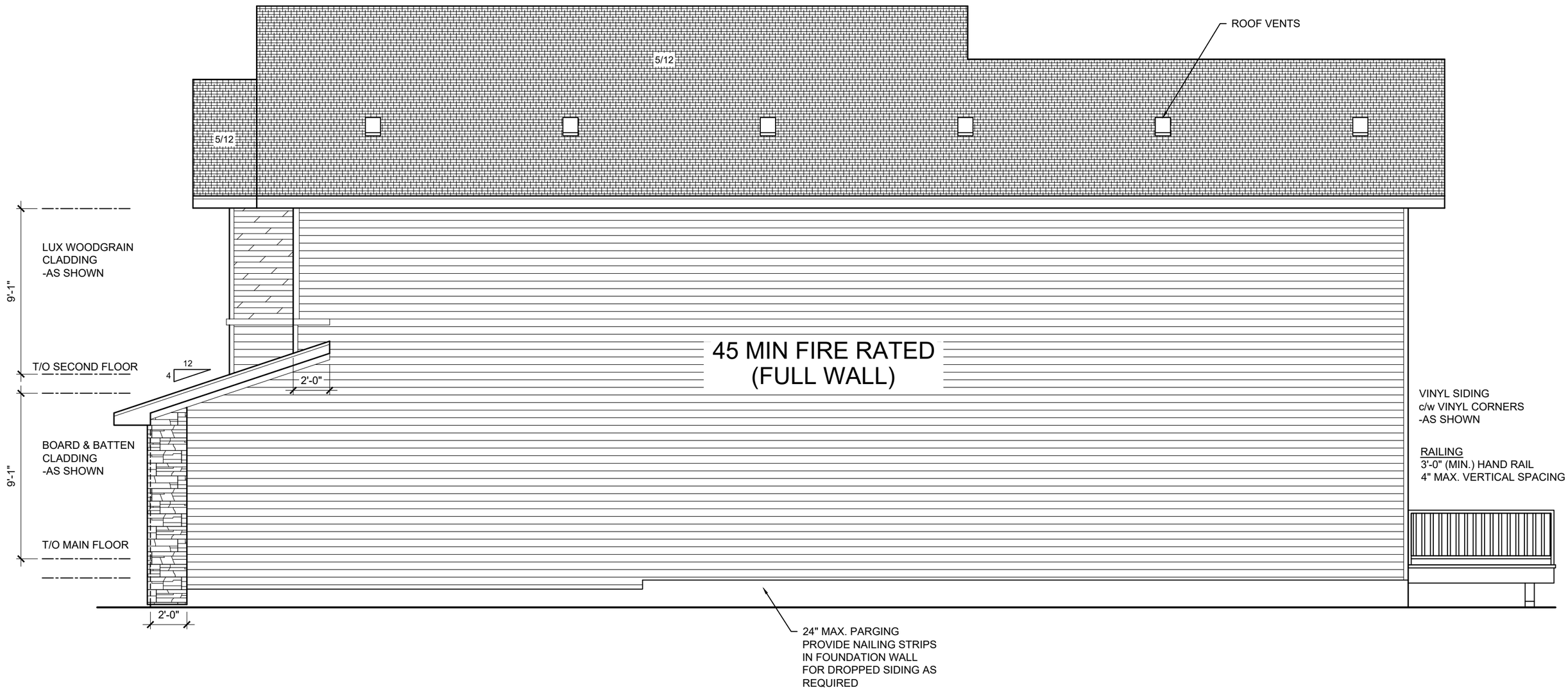

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DRAWING TITLE
RIGHT ELEVATION
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE MODIFIED	
DATE STARTED:01-02-2024	
DESIGNER:SHAMILA	
001	FEB-08-2024 -SR
002	FEB-13-2024 -SR
003	MAR-06-2024-KA
004	MAR-07-2024-SR
005	APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-4

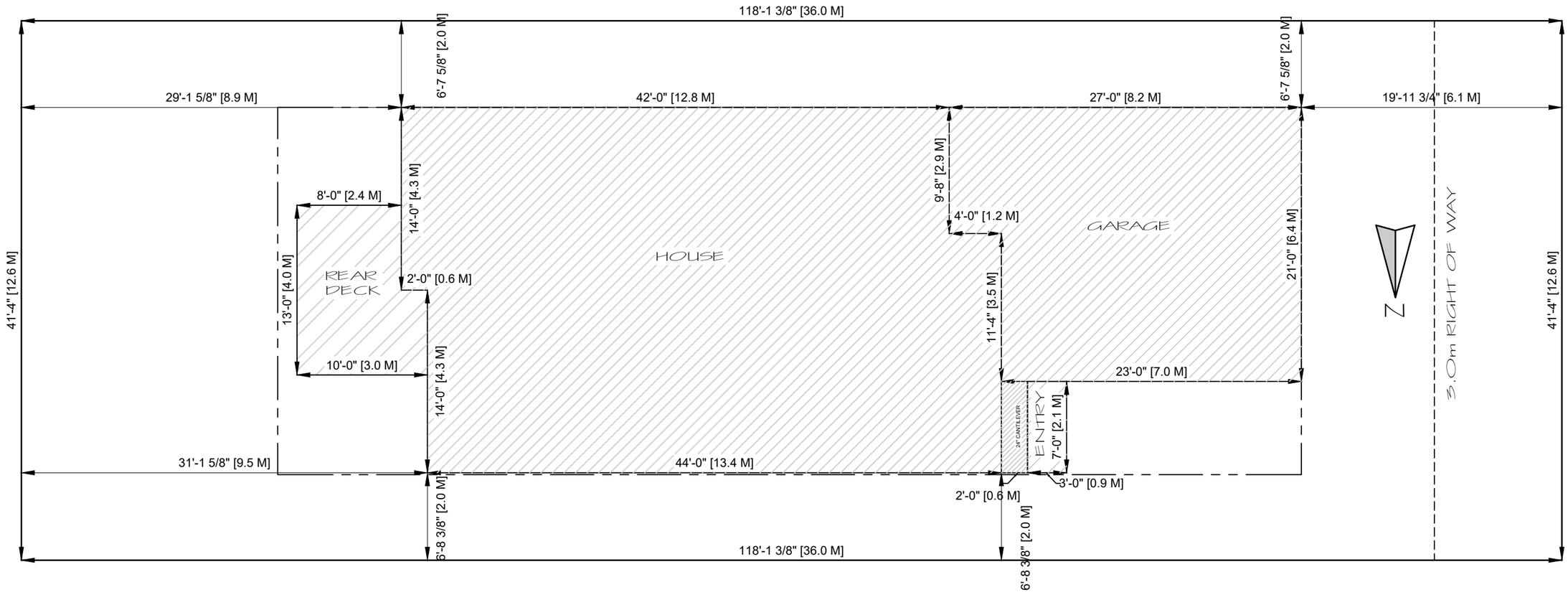
SITE PLAN NOTES:

-ALL DIMENSIONS & CALCULATIONS TO BE CONFIRMED BY A QUALIFIED SURVEYOR
*PROTECH HOME DESIGN IS NOT RESPONSIBLE FOR ANY DISCREPANCIES OR ERRORS THAT MAY RESULT

SITE COVERAGE - RU2 ZONING

LOT AREA	= 4882.50 SQ. FT.
ALLOWED SITE COVERAGE- 55%	= 2685.38 SQ. FT.
HOUSE/GARAGE ONLY	= 1743.00 SQ. FT.
COVERED VERANDA	= 21.00 SQ. FT.
REAR DECK	= 117.00 SQ. FT.
AVAILABLE SITE COVERAGE	= 804.38 SQ. FT.

NOTE: THE UNCOVERED PORTION OF THE DECKS WOULD ONLY COUNT TOWARD THE SITE COVERAGE IF IT IS 1.00m ABOVE GRADE AT ANY POINT.



SITE PLAN FOR ARCHITECTURAL DESIGN ONLY
PLEASE SEE SURVEY PLOT PLAN FOR PERMIT AND CONSTRUCTION

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DRAWING TITLE
SITE PLAN
SCALE 1:100 APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
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FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024	
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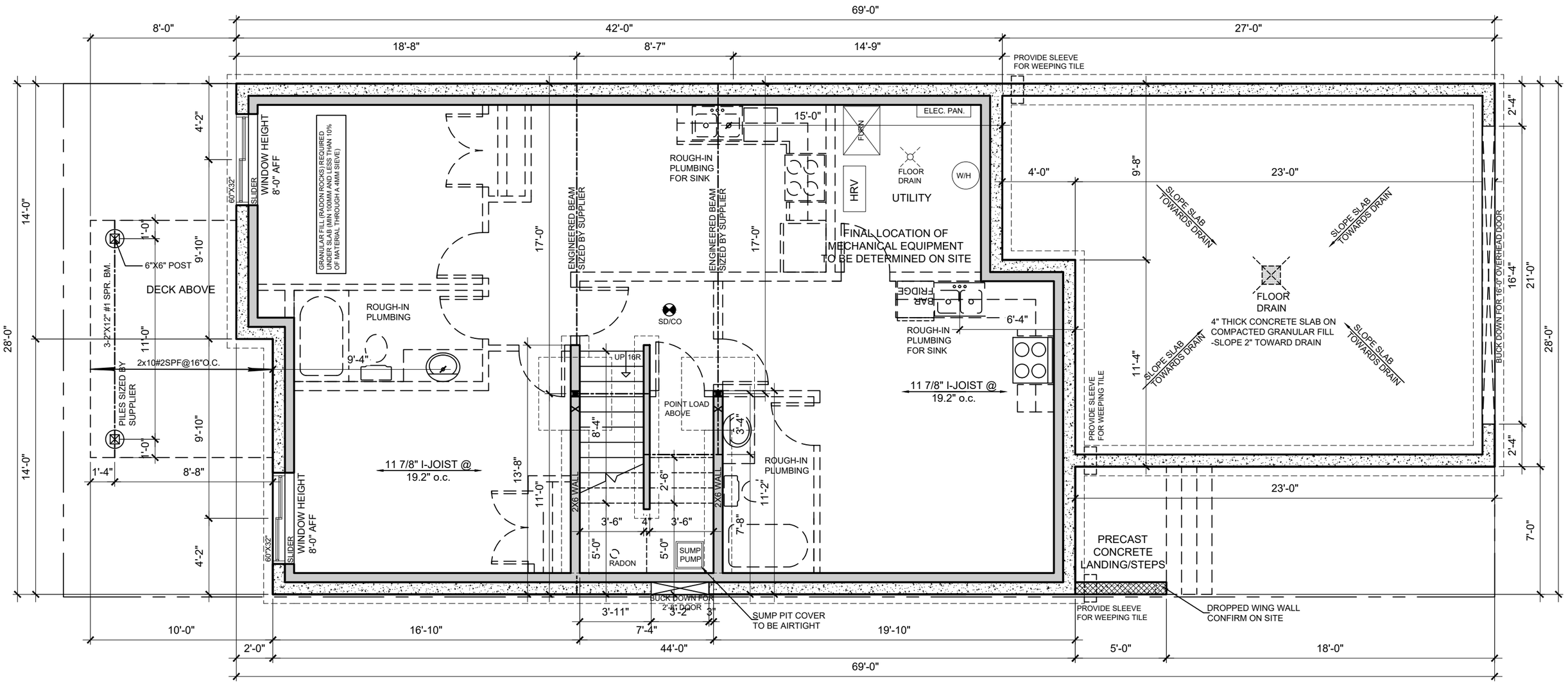
JOB #:4056
SHEET NO.
P-5

FOUNDATION NOTES:

-9'-0" FOUNDATION WALLS
-PROVIDE 30" DIAMETER SUMP PIT c/w PUMP, PUMP COVER, & POWER SUPPLY - LOCATE NEAR OUTSIDE BASEMENT WALL c/w DISCHARGE LINE & SPLASH PAD - CONNECT WEEPING TILE & FLOOR DRAIN (c/w BACK WATER VALVE) TO PIT - CONNECT DISCHARGE LINE TO STORM SEWERS WHERE REQUIRED
-SEE ENGINEERED FLOOR LAYOUT FROM SUPPLIER FOR COLUMN & PAD SIZING



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DRAWING TITLE
FOUNDATION PLAN
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO	
MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
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GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024	
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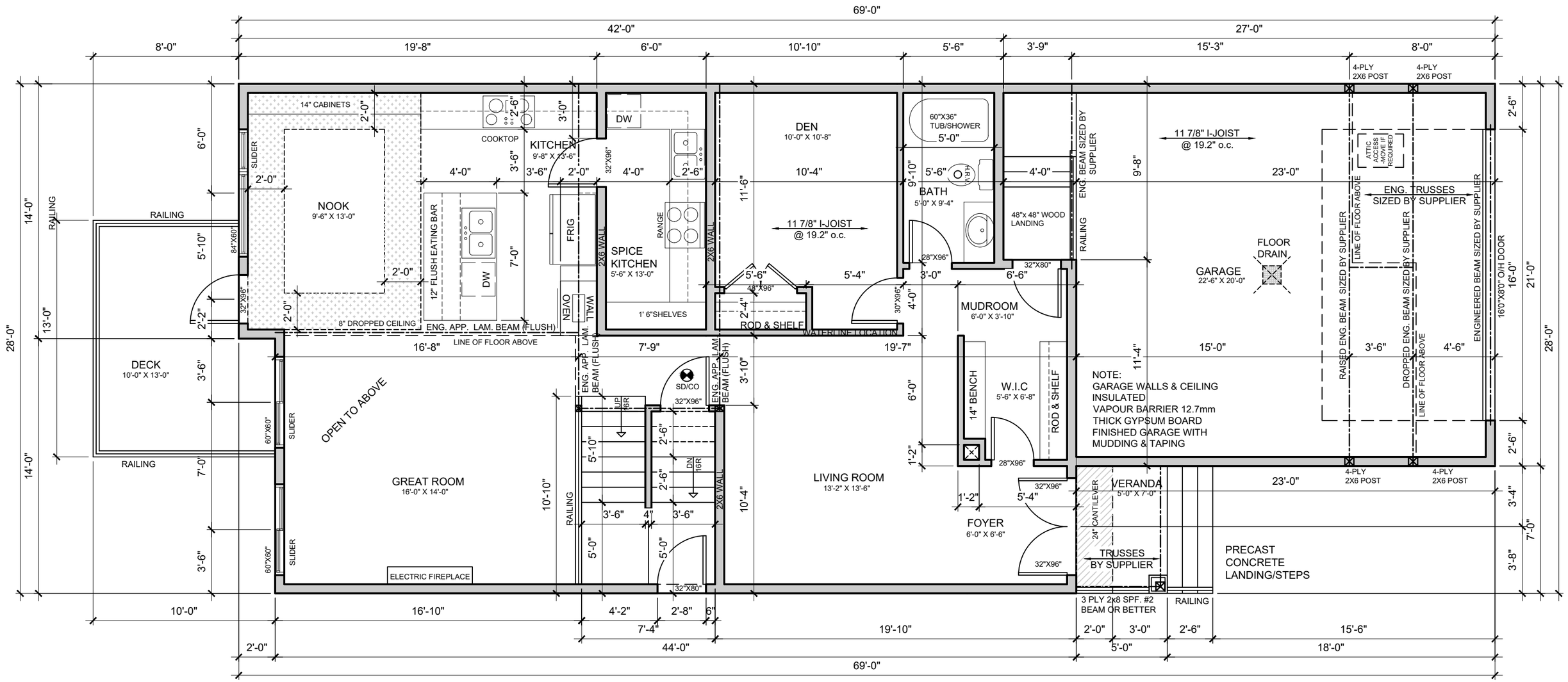
JOB #:4056
SHEET NO.
P-6

MAIN FLOOR NOTES:

-9'-1" WALLS
-TOP OF WINDOWS @ 96" A.F.F. (UNLESS NOTED)
-ALL CABINETS TO BE DESIGNED & CONFIRMED WITH SUPPLIER
-ALL ANGLED WALLS ARE AT 45° (UNLESS NOTED)
-BEDROOM SMOKE DETECTORS TO BE INSTALLED WITHIN 1 METER OF DOORWAY
-CENTRE OF TOILET DRAIN TO BE 1'-2" FROM BACK WALL & 1'-4" FROM SIDE WALL / VANITY AS REQUIRED



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PHONE: 780 308 9000

DRAWING TITLE
MAIN FLOOR PLAN
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

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SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024	
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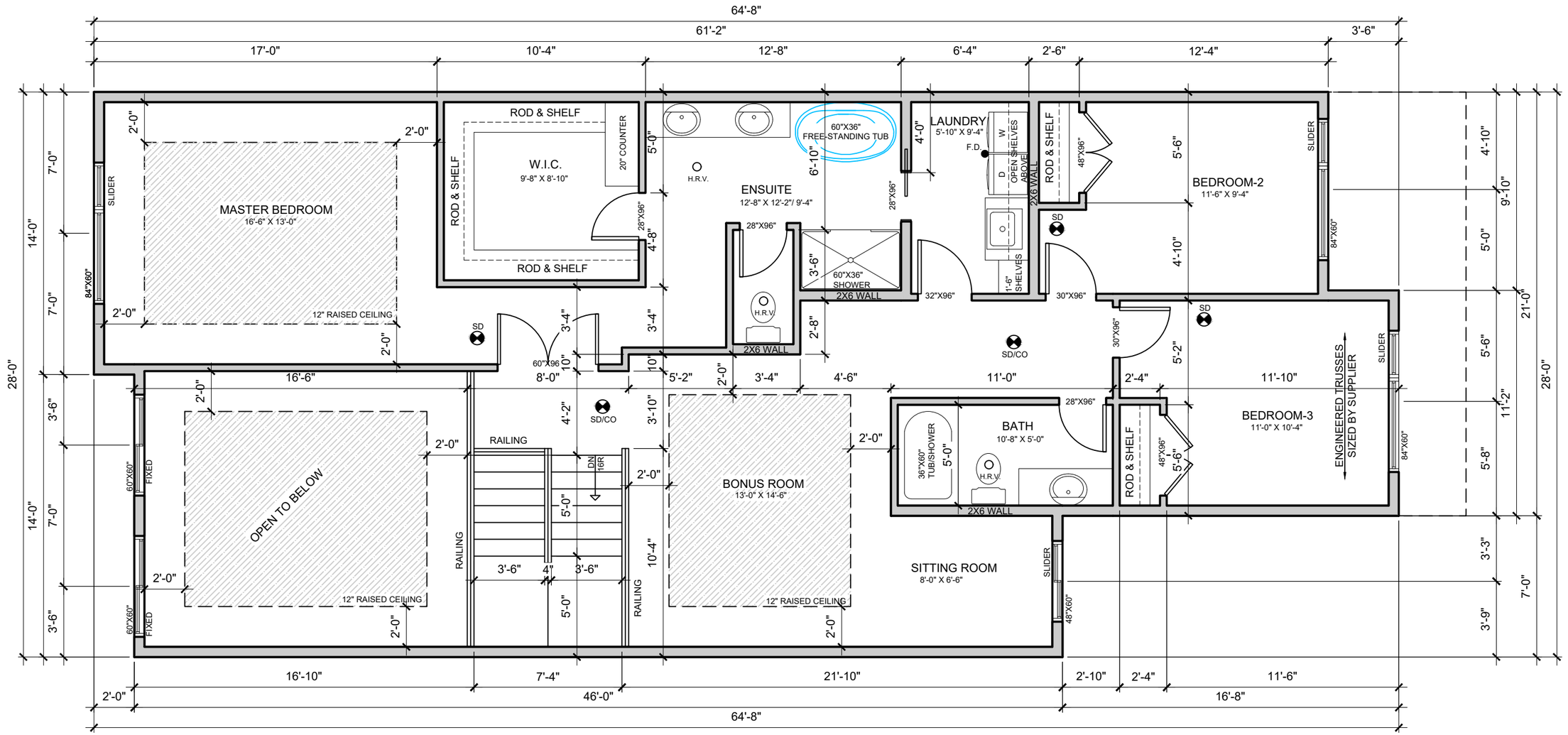
JOB #:4056
SHEET NO.
P-7

UPPER FLOOR NOTES:

-9'-1" WALLS
-TOP OF WINDOWS @ 96" A.F.F. (UNLESS NOTED)
-ALL CABINETS TO BE DESIGNED & CONFIRMED WITH SUPPLIER
-ALL ANGLED WALLS ARE AT 45° (UNLESS NOTED)
-BEDROOM SMOKE DETECTORS TO BE INSTALLED WITHIN 1 METER OF DOORWAY
-CENTRE OF TOILET DRAIN TO BE 1'-2" FROM BACK WALL & 1'-4" FROM SIDE WALL / VANITY AS REQUIRED



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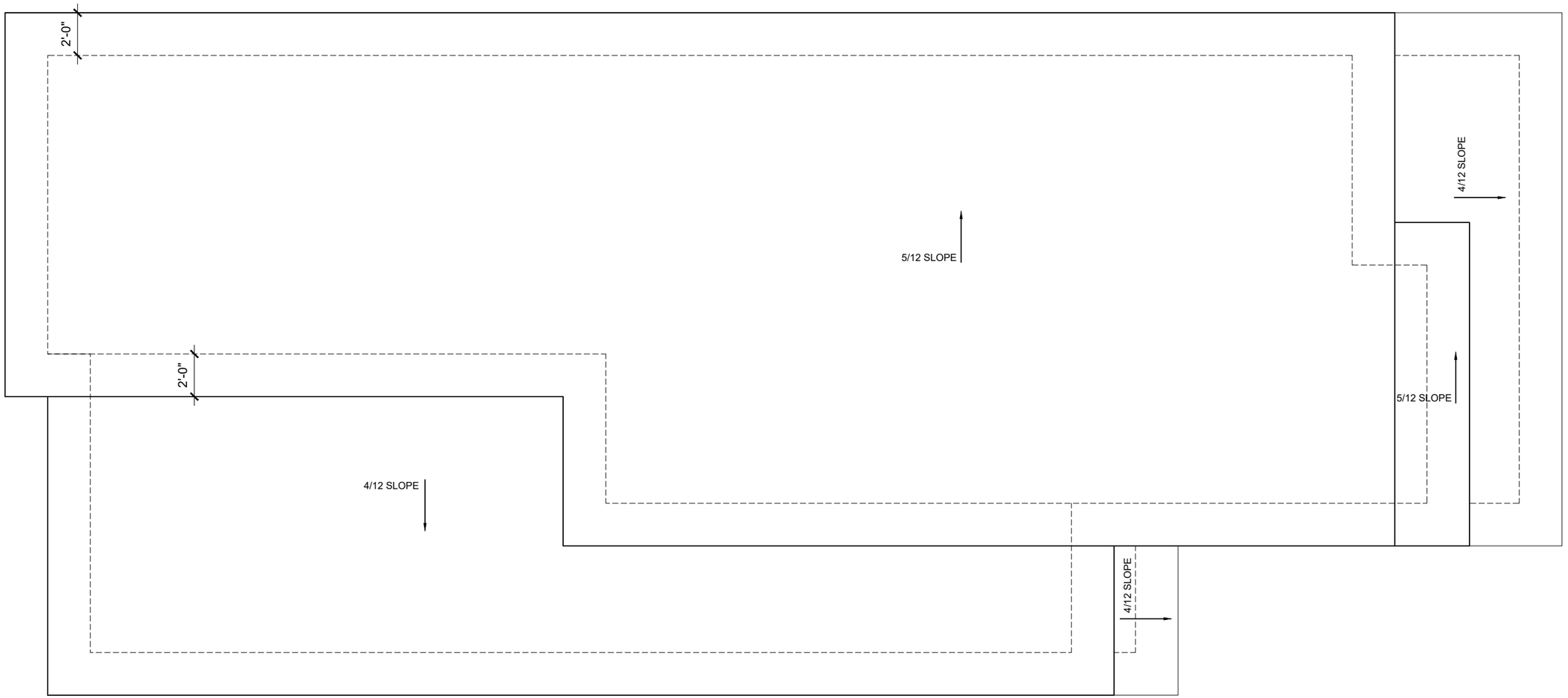
CLIENT: SAMAR HOMES PHONE: 780 308 9000	DRAWING TITLE: SECOND FLOOR PLAN — SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER	FLOOR AREA INFO		SUBDIVISION:IRVINE CREEK	DATE STARTED:01-02-2024 DESIGNER:SHAMILA JOB #:4056
	MODEL: CUSTOM STYLE: MODERN	MAIN FLOOR :	1222 SQ. FT.	LOT:25 BLOCK:2 PLAN: 232 1182	DATE MODIFIED 001 FEB-08-2024 -SR 002 FEB-13-2024 -SR 003 MAR-06-2024-KA 004 MAR-07-2024-SR 005 APRIL-02-2024-SR
		UPPER FLOOR :	1341 SQ. FT.		SHEET NO. P-8
		TOTAL FLOOR AREA:	2563 SQ. FT.	6268 19 STREET NE LEDUC COUNTY,ALBERTA	
		GARAGE :	522 SQ. FT.		
		FOUNDATION CONCRETE SLAB:	1125 SQ. FT.		

ROOF NOTES:

-ENSURE TRUSSES ARE STUBBED WHERE SOFFITS DO NOT MEET WALL SHEATHING
-FALL PROTECTION IS REQUIRED



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DRAWING TITLE
ROOF PLAN
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

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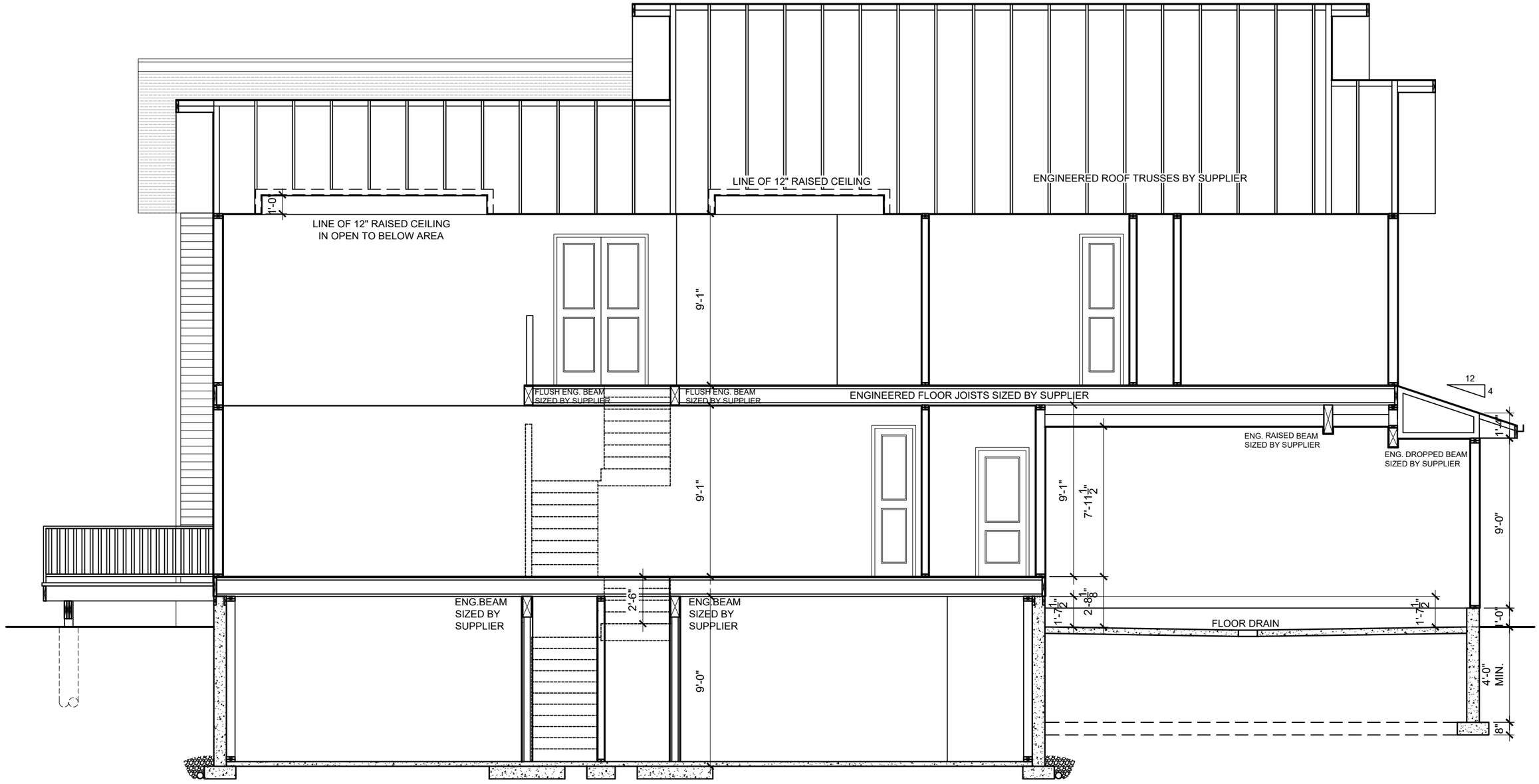
JOB #:4056
SHEET NO.
P-9



STANDARD SPECIFICATIONS:

ROOF:
-ROOFING MATERIAL AS PER SPECIFICATIONS
-BUILDING PAPER
-3/8" O.S.B. c/w H-CLIPS
-ENGINEER APPROVED TRUSSES @24" o.c.
-UNLESS OTHERWISE SPECIFIED
-1x4 SPRUCE TRUSS BRACING @ 7'-0" o.c.
-NAILED TO BOTTOM CHORD
-MINIMUM 18 1/2" LOOSE FILL GLASS FIBRE INSULATION c/w INSULATION STOPS
-6mil POLY VAPOUR BARRIER
-1/2" CD DRYWALL w/ CEILING FINISH
-PROVIDE EAVE PROTECTION TO MEET OR EXCEED THE N.B.C.-A.E.
-ALUMINUM EAVESTROUGH
-8" ALUMINUM FASCIA ON 2x8 WOOD BACKING
-UNLESS OTHERWISE SPECIFIED
-VENTED ALUMINUM SOFFITS
-ATTIC TO BE VENTED 1:300 OF INSULATED CEILING AREA

EXTERIOR WALLS:
-EXTERIOR FINISH AS PER ELEVATIONS
-BUILDING PAPER
-3/8" O.S.B. EXTERIOR SHEATHING
-2x6 KILN DRIED SPRUCE STUDS @ 24" o.c.
-FRICTION FIT BATT INSULATION
-6mil POLY VAPOUR BARRIER
-1/2" INTERIOR GYPSUM WALLBOARD

INTERIOR PARTITION WALLS:
-1/2" GYPSUM WALLBOARD
-2x4 STUDS @ 24" o.c.
-UNLESS OTHERWISE NOTED
-1/2" GYPSUM WALLBOARD

FOUNDATION WALL:
-6mil POLY VAPOUR BARRIER
-R20 FRICTION FIT BATT INSULATION
-2x6 FROST WALL STUDS @ 24" o.c. OFFSET 1 1/2" FROM CONCRETE WALL
-8" WIDE CONCRETE WALL c/w 2 HORIZONTAL ROWS OF MINIMUM 10M STEEL REBAR TOP & BOTTOM ON MINIMUM OF 18"x18" CONCRETE STRIP FOOTING
-EXTERIOR DAMPPROOFING
-FOOTING TO BE PLACED ON UNDISTURBED OR COMPACTED SOIL - MINIMUM 4'-0" BELOW GRADE
-ALL CONCRETE TO BE MINIMUM OF 20MPa-TYPE 10 c/w 25mm AGGREGATE

FRAMED FLOOR:
-ENGINEERED FLOOR JOISTS AS PER SUPPLIER
-23/32" O.S.B. FLOOR SHEATHING TO BE GLUED AND SCREWED

BASEMENT FLOOR:
-MINIMUM 3" THICK 20MPA TYPE 10 CONCRETE C/W 25MM AGGREGATE
-8" CRUSHED GRAVEL
-6mil VAPOUR BARRIER

GARAGE SLAB:
-HAND TROWELLED 4" CONCRETE SLAB REINFORCED w/ 10M STEEL REBAR @24" o.c. E.W. PLACED 24" INTO FOUNDATION WALL ONLY (SLOPE 2" TOWARD DRAIN)

INSULATED CEILING ABOVE GARAGE SPACE:
-6mil POLY VAPOUR BARRIER
-2x6 KILN DRIED SPRUCE STUDS @ 24" o.c.
-FRICTION FIT BATT INSULATION
-1/2" INTERIOR GYPSUM BOARD

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DRAWING TITLE
CROSS SECTION A
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
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GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

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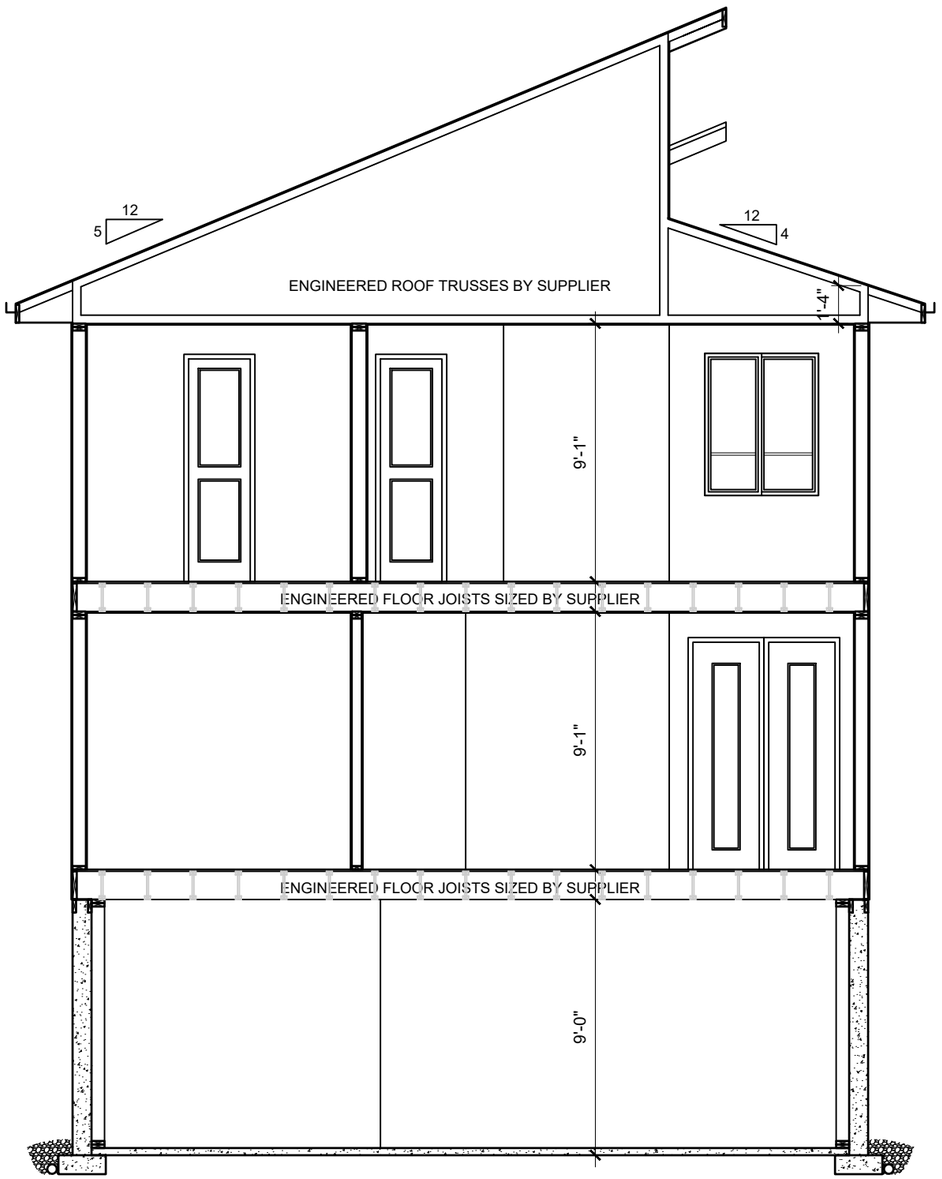
LEDUC COUNTY,ALBERTA

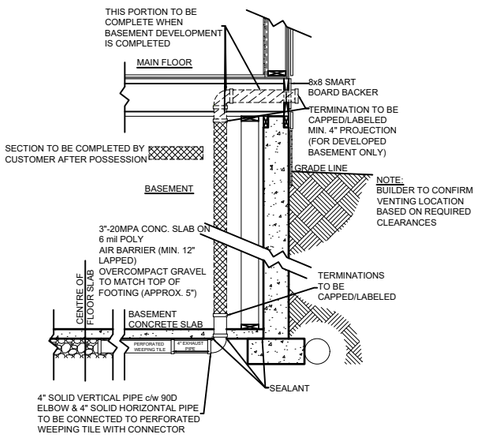
DATE STARTED:01-02-2024
DESIGNER:SHAMILA
DATE MODIFIED
001 FEB-08-2024 -SR
002 FEB-13-2024 -SR
003 MAR-06-2024-KA
004 MAR-07-2024-SR
005 APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-10

GENERAL NOTES:

-ALL CONSTRUCTION TO CONFORM TO LOCAL BYLAWS AND THE N.B.C. -A.E. **IN ANY INSTANCE OF DISCREPANCIES BETWEEN THIS PLAN & THE N.B.C. THE N.B.C. -A.E., THE N.B.C. -A.E. WILL OVERRIDE
-EXTERIOR WALLS ARE SHOWN AS 6" THICK AND INCLUDE AN ALLOWANCE FOR 1/2" OF SHEATHING ON THE EXTERIOR
-INTERIOR WALLS ARE SHOWN AS 3 1/2", 5 1/2", OR 7 1/4" THICK -WALLBOARD REDUCES THE ROOM SIZES
-ALL WALLS 11'-10" OR TALLER REQUIRE AN ENGINEER'S APPROVAL /DETAIL
-ALL DIMENSIONS ARE TAKEN TO THE FACE OF THE INTERIOR STUDS AND OUTSIDE FACE OF SHEATHING ON EXTERIOR WALLS AND OUTSIDE FACE OF CONCRETE WALLS
-DESIGN IS BASED ON AN ENGINEERED FLOOR SYSTEM
  -SEE ENGINEER'S LAYOUT
-DESIGN IS BASED ON AN ENGINEERED ROOF TRUSS SYSTEM
  -SEE ENGINEER'S LAYOUT
-ALL BEAMS TO BE DESIGNED BY SUPPLIER
  -SEE ENGINEER'S LAYOUT
-PRECAST CONCRETE STEPS OR CAST-IN-PLACE AS PER PLAN UNLESS OTHERWISE SHOWN
-ENTRANCE DOORS TO BE SOLID CORE IN ACCORDANCE WITH N.B.C. -A.E. BUILDING CODE 9.7.2.1.
-INTERIOR DOOR FRAMING HEIGHT TO BE 83" FOR 80" DOOR, 99" FOR 96" DOOR
-PROVIDE SELF-CLOSER ON GARAGE-HOUSE DOOR, c/w WEATHERSTRIPPING
-ALL WINDOWS SUBJECT TO LOCAL BYLAWS AND MUST MEET CODE FOR EGRESS IN REQUIRED ROOMS
-WINDOW SIZES SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED WITH THE BUILDER / CONTRACTOR / OWNER PRIOR TO ORDERING / INSTALLATION - INCLUDING ROUGH OPENINGS / STYLE / TYPE / GRILLES
-ALL WINDOWS 8'-0" AND OVER TO HAVE LINTEL SIZED BY SUPPLIER
-ALL OVERHANGS SUBJECT TO LOCAL BYLAWS
-ALL WALLS / CEILINGS / FLOORS THAT ARE COMMON TO HOUSE AND GARAGE TO BE 1 HR. FIRE-RATED AND GAS-PROOFED TO MEET CODE
-WEEPING TILE TO BE INSTALLED AROUND ALL STRIP FOOTINGS AND TIED TO DRAINAGE SYSTEM
-GARAGE PILE LAYOUT (IF REQUIRED) TO BE DESIGNED & VERIFIED BY A QUALIFIED STRUCTURAL ENGINEER
-ATTIC ACCESS TO BE MINIMUM 21 1/2"x 23" AS PER N.B.C. -A.E. c/w WEATHERSTRIPPING AND INSULATION
-ROOF VENTS TO BE PROVIDED TO MEET CODE
-INSULATION STOPS TO BE INSTALLED AS REQUIRED
-SMOKE / CARBON MONOXIDE DETECTORS TO BE PROVIDED TO MEET CODE
-FLASHING TO BE INSTALLED TO MEET CODE & LOCAL REQUIREMENTS
-PROVIDE FLASHING ABOVE ALL EXTERIOR DOORS, WINDOWS, & OPENINGS
-GRADE LINES ARE ESTIMATED ONLY AND SHOULD BE VERIFIED WITH PLOT PLAN AND / OR GRADES ON SIDE - ENTRY STEPS TO BE ADJUSTED ACCORDINGLY
-MAIN FLOOR ELEVATIONS TO TOP OF GARAGE SLAB ELEVATION TO BE VERIFIED WITH A QUALIFIED SURVEYOR
-GLASS SHOWER DOOR / WALLS MUST BE TEMPERED GLASS
-PLUMBING ACCESS OF MINIMUM 16"x 20" TO BE PROVIDED FOR EACH TUB & SHOWER
-DRYER VENT TO BE 4" DIAMETER c/w HOOD
-ALL EXHAUST FANS TO VENT TO EXTERIOR
-PROVIDE FRESH AIR INTAKES FOR ALL FURNACES & FIREPLACES
-COMBUSTION AIR FOR THE FIREPLACE MUST BE SUPPLIED BY AIR INTAKES OTHER THAN A DOOR OR A WINDOW
-DECK SLOPE = MIN. 1/8" PER 12", MAX. 1/4" PER 12"
-ALL WORKMANSHIP TO BE A STANDARD EQUAL OR BETTER IN ALL RESPECTS TO GOOD BUILDING PRACTICE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE ALBERTA EDITION





RADON MITIGATION DETAIL
SCALE: 1/4"=1'-0"

PROTECH HOME DESIGN
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info@protechhomedesign.com
1324 Windermere Way SW, Edmonton, AB T6W 0P1
phone: 780-970-1938

CLIENT:
SAMAR HOMES
PHONE: 780 308 9000

DRAWING TITLE
CROSS SECTION B
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
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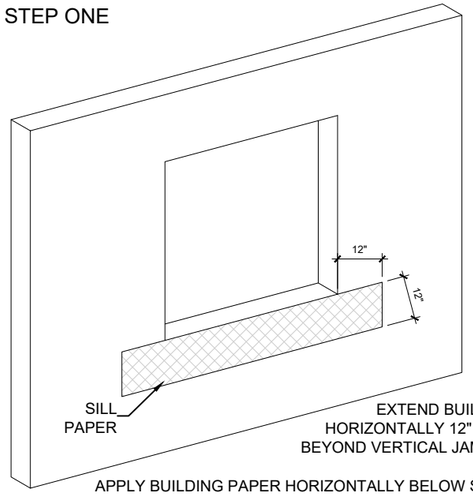
STEPS FOR WINDOW INSTALLATION

STEP ONE

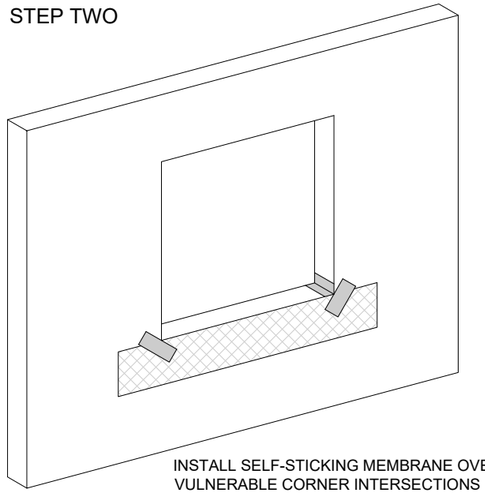


SILL PAPER

EXTEND BUILDING PAPER HORIZONTALLY 12" TO PROJECT BEYOND VERTICAL JAMB FLASHING

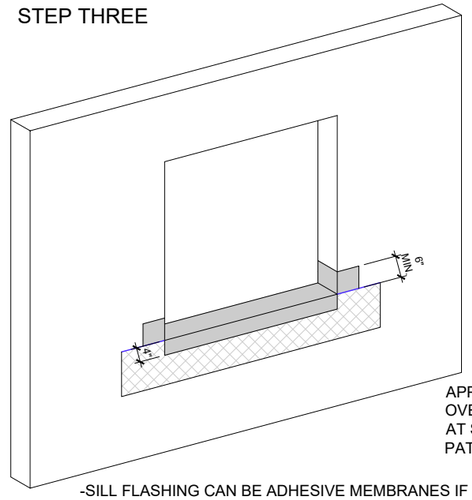
APPLY BUILDING PAPER HORIZONTALLY BELOW SILL
-FASTEN TOP EDGE OF BUILDING PAPER TO WALL SHEATHING - DO NOT FASTEN TO LOWER EDGE
-DRAINAGE PLANE TO BE SLID UP & UNDER LATER BUILDING PAPER IN SHINGLE FASHION

STEP TWO



INSTALL SELF-STICKING MEMBRANE OVER VULNERABLE CORNER INTERSECTIONS

STEP THREE

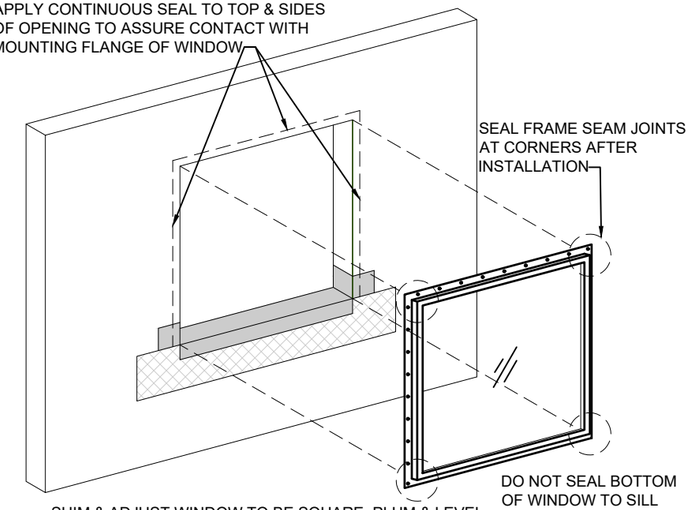


APPLY SILL FLASHING OVER BUILDING PAPER AT SILL & CORNER PATCHES AS SHOWN

-SILL FLASHING CAN BE ADHESIVE MEMBRANES IF ASPHALT IMPREGNATED FELT OR COATED PAPER
-DO NOT USE ADHESIVE BITUMEN-BASED MEMBRANES WITH PLASTIC HOUSEWRAP - USE BUILDING PAPER

STEP FOUR

APPLY CONTINUOUS SEAL TO TOP & SIDES OF OPENING TO ASSURE CONTACT WITH MOUNTING FLANGE OF WINDOW

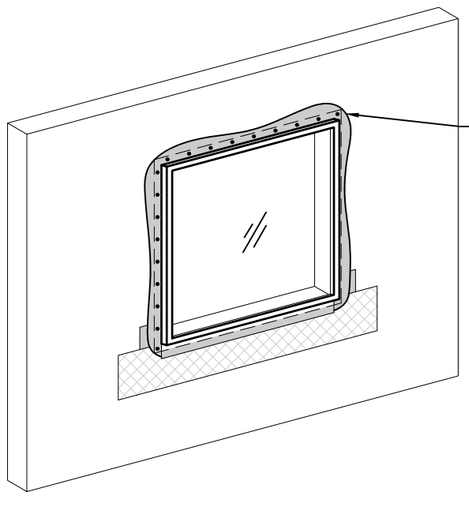


SEAL FRAME SEAM JOINTS AT CORNERS AFTER INSTALLATION

DO NOT SEAL BOTTOM OF WINDOW TO SILL FLASHING

-SHIM & ADJUST WINDOW TO BE SQUARE, PLUM & LEVEL
-USE CORROSION RESISTANT FASTENERS NO CLOSER THAN 3" FROM EVERY CORNER
-SECURE WINDOW WITH EQUIVALENT OF 6d FASTENERS AT 16" o.c. MAXIMUM

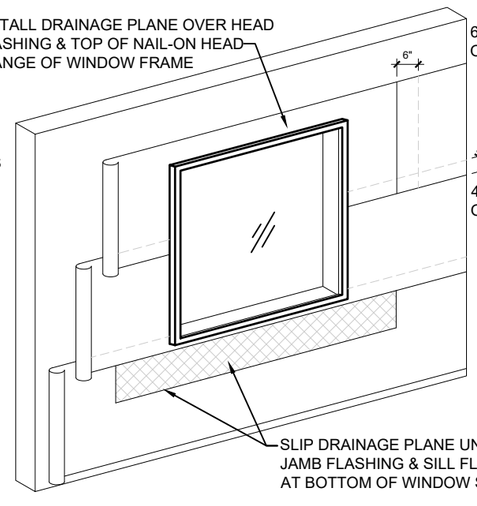
STEP FIVE



APPLY BLUE GOO SEALANT ALONG TOP & SIDE EDGES OF WINDOW

STEP SIX

INSTALL DRAINAGE PLANE OVER HEAD FLASHING & TOP OF NAIL-ON HEAD FLANGE OF WINDOW FRAME



6" MIN. VERTICAL LAP ON DRAINAGE PLANE

4" MIN. HORIZONTAL LAP ON DRAINAGE PLANE

SLIP DRAINAGE PLANE UNDER JAMB FLASHING & SILL FLASHING AT BOTTOM OF WINDOW SILL

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DRAWING TITLE: WINDOW DETAILS
NOT TO SCALE APPLICABLE ON 11"X17" PAPER

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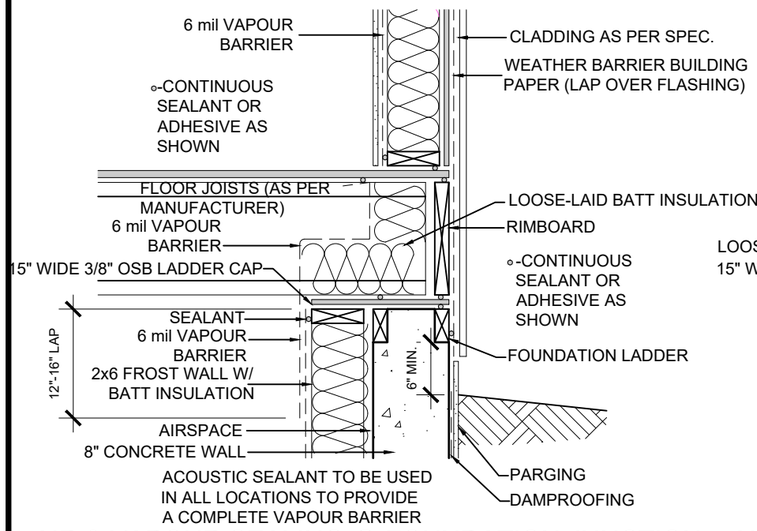
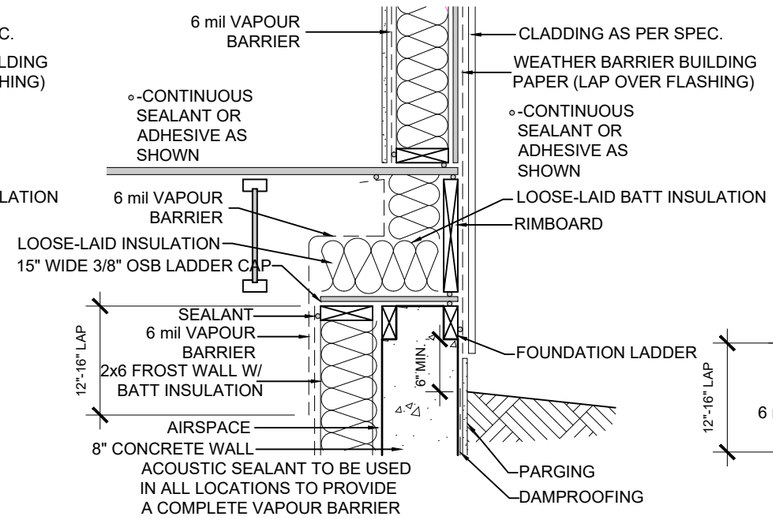
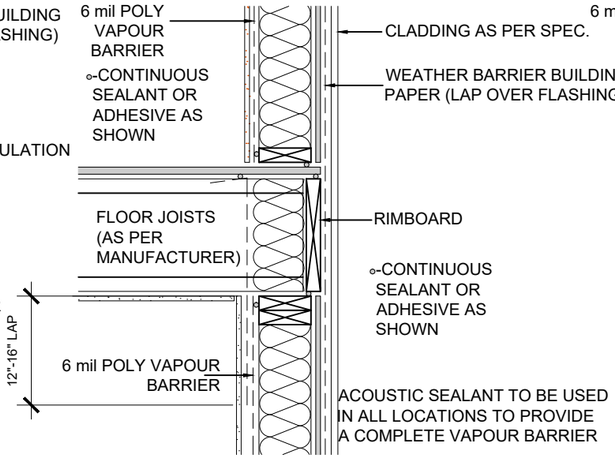


AIR & VAPOUR SEALING @ FOUNDATION JUNCTION (PERPENDICULAR TO JOISTS)



AIR & VAPOUR SEALING @ FOUNDATION JUNCTION (PARALLEL TO JOISTS)



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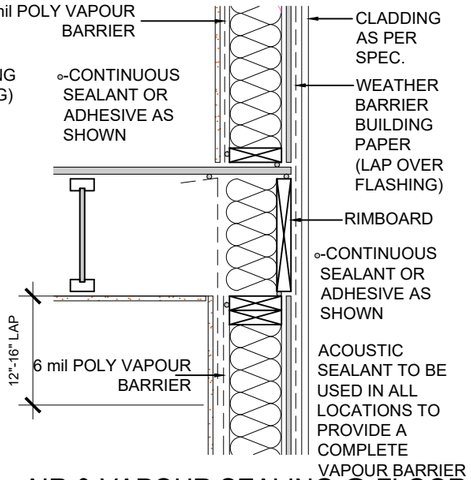

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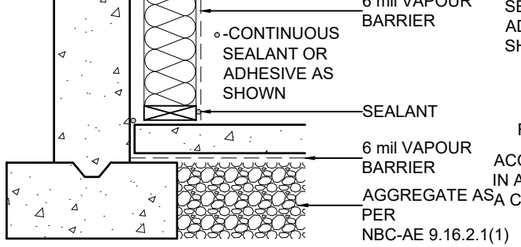
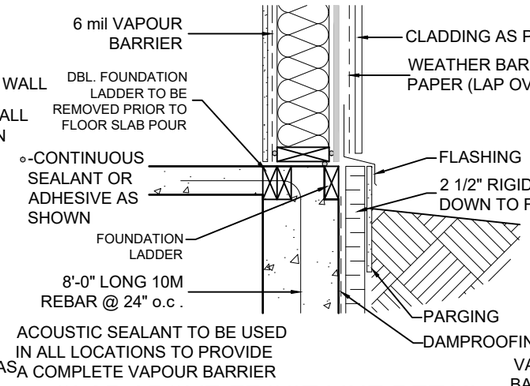
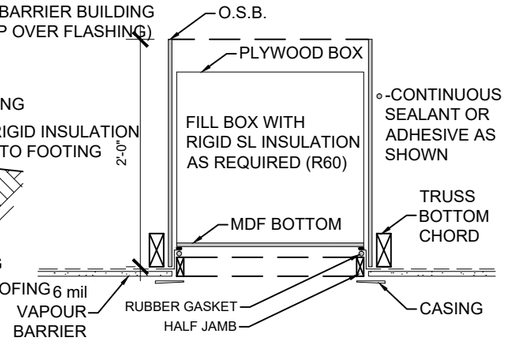


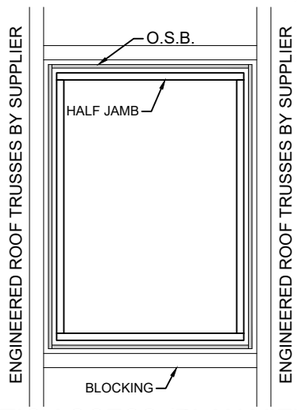
SLAB / FOOTING JUNCTION



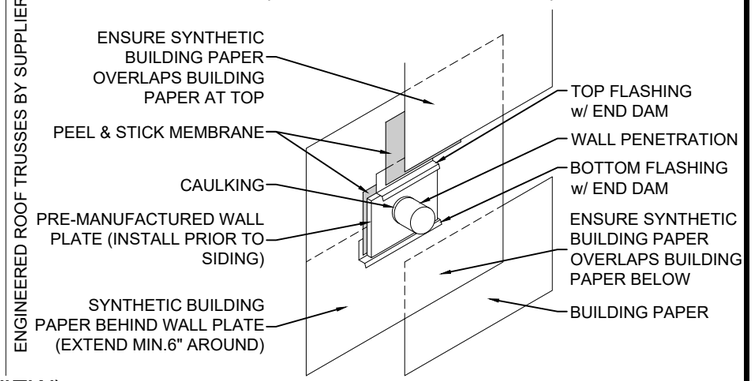
SLAB ABOVE FROST LINE DETAIL



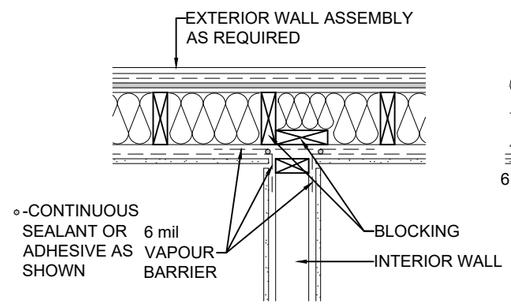
ATTIC ACCESS



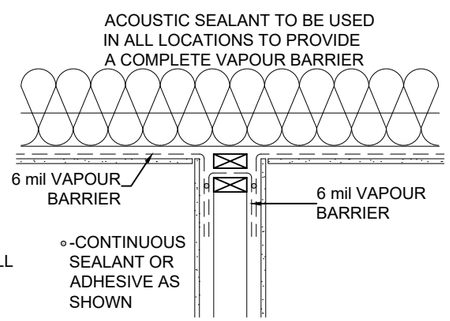
ATTIC ACCESS (PLAN VIEW)



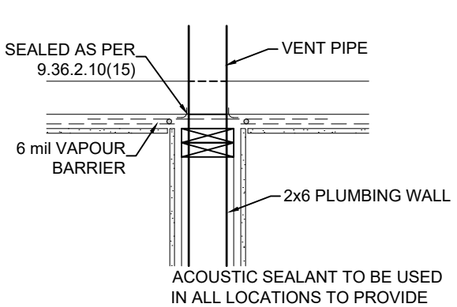
WALL PENETRATION



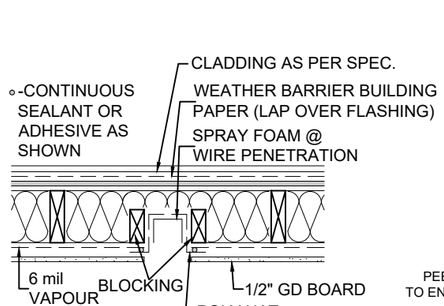
INTERIOR / EXTERIOR WALL CONNECTION



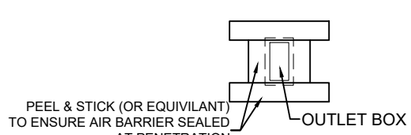
INTERIOR WALL @ CEILING



VENT PIPE PENETRATION



TYPICAL OUTLET BOX



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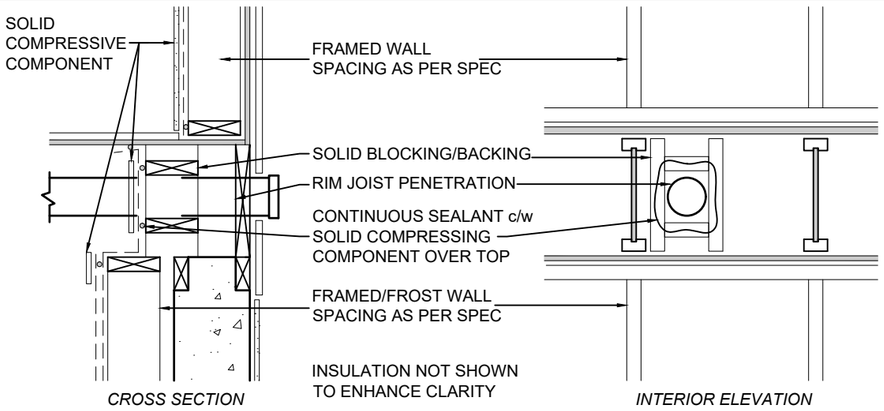
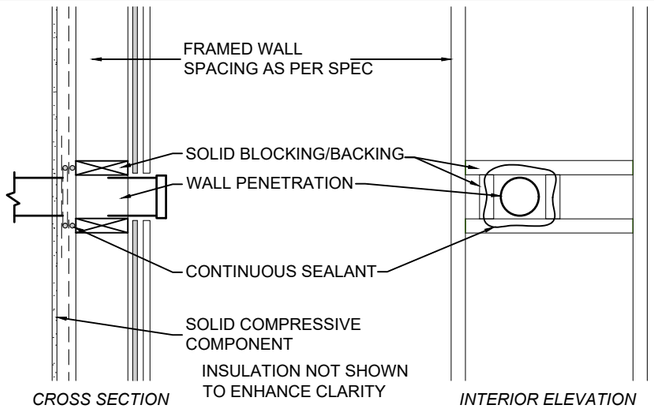
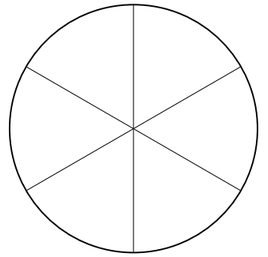


AIR & VAPOUR SEALING @ RIM JOIST PENETRATION



AIR & VAPOUR SEALING @ WALL PENETRATION

~APPROVED SEALANT AT MECHANICAL JOINTS MUST BE MECHANICALLY COMPRESSED BETWEEN SOLD BACKING
~HOLES OR JOINTS IN POLY AIR/VAPOUR BARRIER CANNOT BE SEALED WITH SEALANT OR TAPE UNLESS THERE IS SOLD BACKING SUPPORT BEHIND & A COMPRESSING COMPONENT DRYWALL / WOOD / OSB) OVER TOP



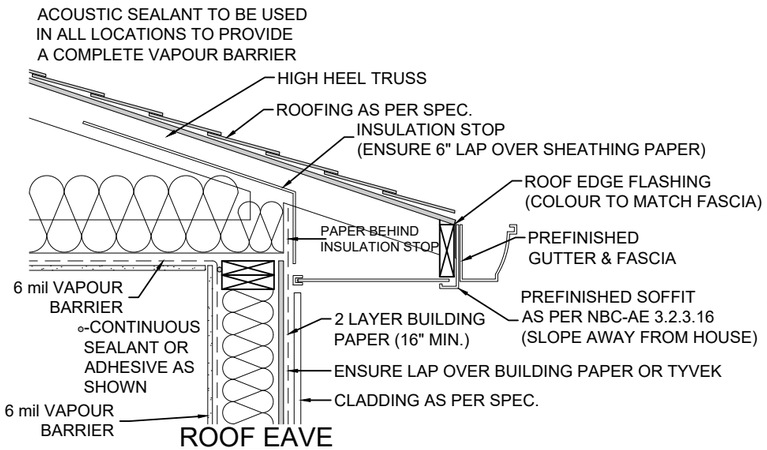
-TRACE DUCT/WALL PENETRATION WITH PERMANENT MARKER

-CUT INTERSECTING LINES INSIDE CIRCLE

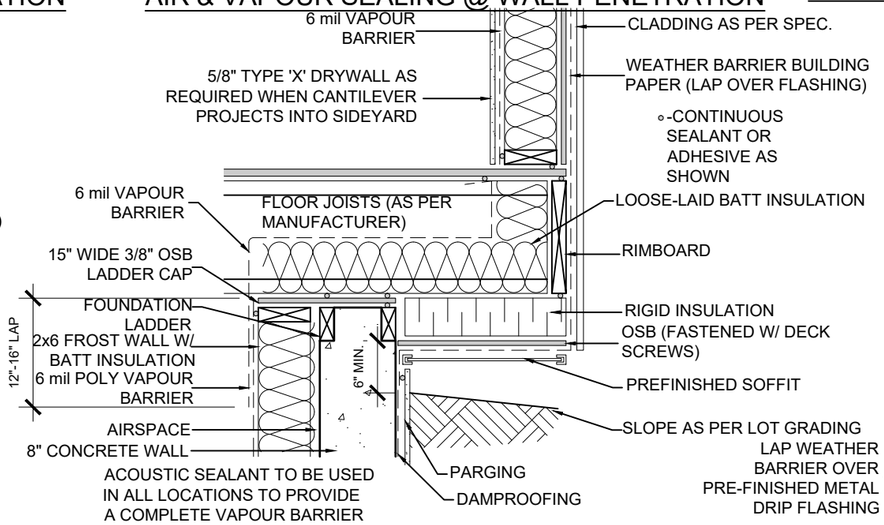
-PUSH DUCT THROUGH POLY

-TAPE FLAPS TO OUTSIDE OF DUCT

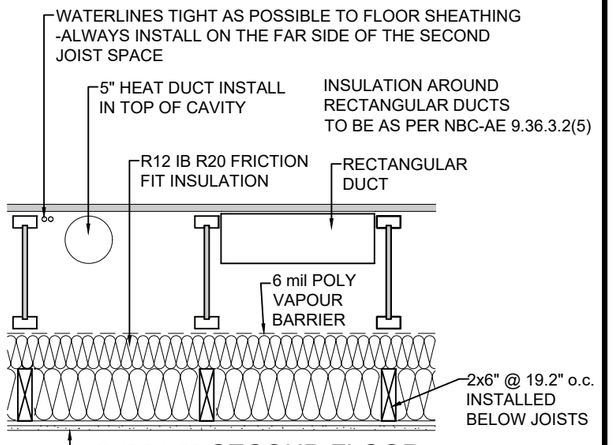
AIR & VAPOUR BARRIER RECOMMENDED CUT PATTERN



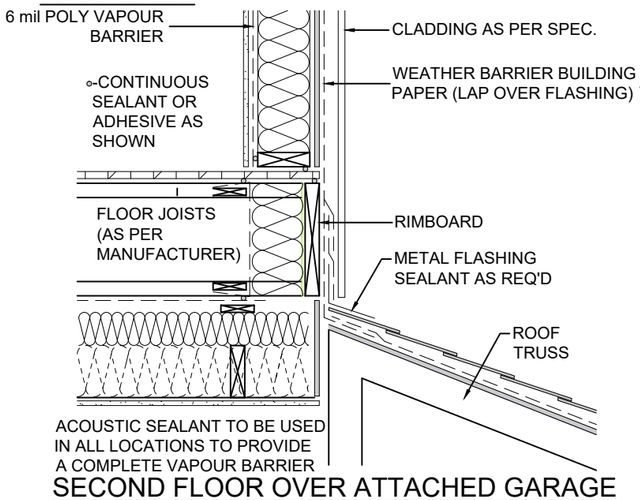
ROOF EAVE



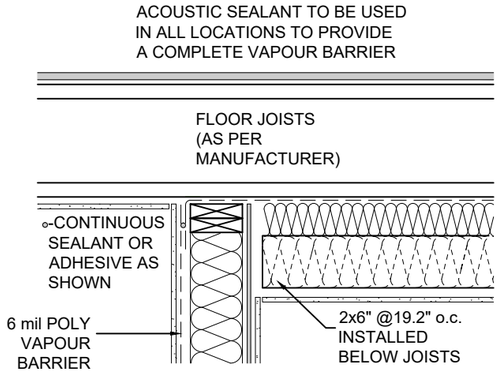
AIR & VAPOUR SEALING @ FOUNDATION CANTILEVER



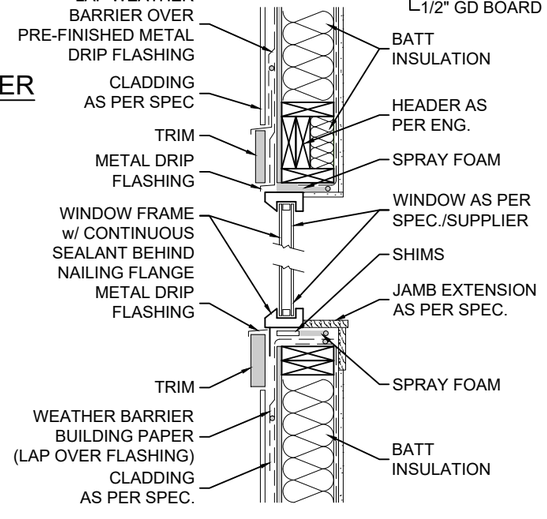
SECOND FLOOR OVER ATTACHED GARAGE



SECOND FLOOR OVER ATTACHED GARAGE @ GARAGE TRUSS



SECOND FLOOR OVER ATTACHED GARAGE @ HOUSE /GARAGE COMMON WALL



WINDOW HEAD & SILL DETAIL

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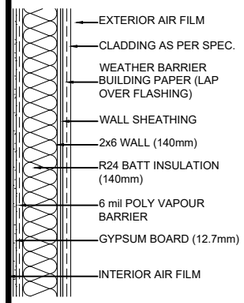
FRAMED WALL (HOUSE WALLS)



BLENDED RSI CALCULATION
-2x6 WALL @24" O.C. (140mm X 0.0085 RSI/mm)
-R22 BATT INSULATION (140mm - RSI 3.87)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{140 \times 0.0085}\right) + \left(\frac{80}{3.87}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{1.19}\right) + \left(\frac{80}{3.87}\right)}$$

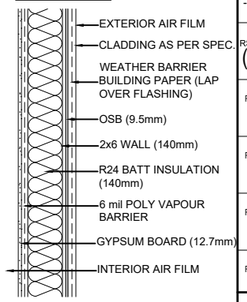
$$RSI = \frac{100}{(16.80672) + (20.67183)}$$

$$RSI = \frac{100}{37.47856}$$

$$RSI = 2.66819$$

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.66819
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR FILM	0.12
RSI_{EFF}	3.10

TW2-FRAMED TALL WALL



BLENDED RSI CALCULATION
-2x6 WALL @ 8" O.C. (140mm X 0.0085 RSI/mm)
-R24 BATT INSULATION (140mm - RSI 4.23)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{26.1}{140 \times 0.0085}\right) + \left(\frac{74.1}{4.23}\right)}$$

$$RSI = \frac{100}{\left(\frac{26.1}{1.19}\right) + \left(\frac{74.1}{4.23}\right)}$$

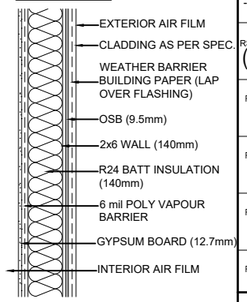
$$RSI = \frac{100}{(21.93277) + (17.51773)}$$

$$RSI = \frac{100}{39.4505}$$

$$RSI = 2.535$$

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.535
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.97

TW1-FRAMED TALL WALL



BLENDED RSI CALCULATION
-2x6 WALL @10" O.C. (140mm X 0.0085 RSI/mm)
-R24 BATT INSULATION (140mm - RSI 4.23)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{25.3}{140 \times 0.0085}\right) + \left(\frac{74.8}{4.23}\right)}$$

$$RSI = \frac{100}{\left(\frac{25.3}{1.19}\right) + \left(\frac{74.8}{4.23}\right)}$$

$$RSI = \frac{100}{(21.26050) + (17.68322)}$$

$$RSI = \frac{100}{38.94372}$$

$$RSI = 2.56781$$

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.56781
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.00

TW1-FRAMED TALL WALL

BLENDED RSI CALCULATION
-2x6 WALL @12" O.C. (140mm X 0.0085 RSI/mm)
-R24 BATT INSULATION (140mm - RSI 4.23)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{24.5}{140 \times 0.0085}\right) + \left(\frac{75.5}{4.23}\right)}$$

$$RSI = \frac{100}{\left(\frac{24.5}{1.19}\right) + \left(\frac{75.5}{4.23}\right)}$$

$$RSI = \frac{100}{(20.58824) + (17.84870)}$$

$$RSI = \frac{100}{38.43694}$$

$$RSI = 2.60166$$

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.60166
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.03

HOUSE/GARAGE COMMON WALL(PROTECTED)

BLENDED RSI CALCULATION
-2x6 WALL @24" O.C. (140mm X 0.0085 RSI/mm)
-R22 BATT INSULATION (140mm - RSI 3.87)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{140 \times 0.0085}\right) + \left(\frac{80}{3.87}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{1.19}\right) + \left(\frac{80}{3.87}\right)}$$

$$RSI = \frac{100}{(16.80672) + (20.67183)}$$

$$RSI = \frac{100}{37.47856}$$

$$RSI = 2.66819$$

EXTERIOR AIR FILM	0.03
GYPSUM (12.7mm)	0.08
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.66819
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR FILM	0.12
RSI_{EFF}	3.07

FOUNDATION WALL (ABOVE GRADE)

BLENDED RSI CALCULATION
-2x6 WALL @24" O.C. (140mm X 0.0085 RSI/mm)
-R20 BATT INSULATION (152mm - RSI 3.52)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{13}{140 \times 0.0085}\right) + \left(\frac{87}{3.52}\right)}$$

$$RSI = \frac{100}{\left(\frac{13}{1.19}\right) + \left(\frac{87}{3.52}\right)}$$

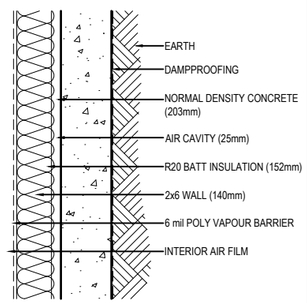
$$RSI = \frac{100}{(10.92437) + (24.71591)}$$

$$RSI = \frac{100}{35.64028}$$

$$RSI = 2.80581$$

EXTERIOR AIR FILM	0.03
PARGING (4.8mm)	0.00432
DAMPPROOFING	0.00
NORMAL DENSITY CONCRETE (0.0004/mm)	0.08128
AIR CAVITY (25mm)	0.00
BLENDED RSI FROM CALCULATION	2.80581
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.04

FOUNDATION WALL (BELOW GRADE)



BLENDED RSI CALCULATION
- 2x6 WALL @ 24" O.C. (140mm X 0.0085 RSI/mm)
- R20 BATT INSULATION (152mm - RSI 3.52)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{13}{140 \times 0.0085}\right) + \left(\frac{87}{3.52}\right)}$$

$$RSI = \frac{100}{\left(\frac{13}{1.19}\right) + \left(\frac{87}{3.52}\right)}$$

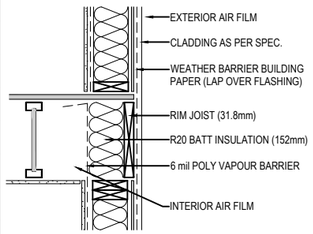
$$RSI = \frac{100}{(10.92437) + (24.71591)}$$

$$RSI = \frac{100}{35.64028}$$

$$RSI = 2.80581$$

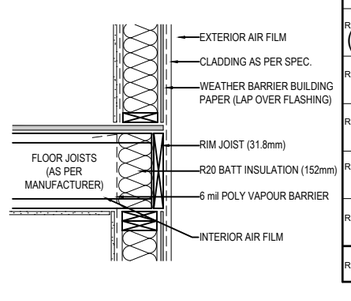
EARTH	0.00
NORMAL DENSITY CONCRETE (0.0004/mm)	0.08128
AIR CAVITY (25mm)	0.00
BLENDED RSI FROM CALCULATION	2.80581
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.01

EXTERIOR WALL @ RIM JOIST -PARALLEL TO FLOOR JOISTS



EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
RIM JOIST (31.8mm X 0.0085 RSI/mm)	0.2703
R20 BATT INSULATION (152mm)	3.52
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	4.05

EXTERIOR WALL @ RIM JOIST -PERPENDICULAR TO JOISTS



BLENDED RSI CALCULATION
- TJI JOISTS @ 19.2" o.c.
- R20 BATT INSULATION (152mm - RSI 3.52)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{7.5}{152 \times 0.0085}\right) + \left(\frac{92.5}{3.52}\right)}$$

$$RSI = \frac{100}{\left(\frac{7.5}{1.292}\right) + \left(\frac{92.5}{3.52}\right)}$$

$$RSI = \frac{100}{(5.80495) + (26.27841)}$$

$$RSI = \frac{100}{32.08336}$$

$$RSI = 3.11688$$

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
RIM JOIST (31.8mm X 0.0085 RSI/mm)	0.2703
BLENDED RSI FROM CALCULATION	3.11688
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.65

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CLIENT:
SAMAR HOMES
PHONE: 780 308 9000

DRAWING TITLE
RSI CALCULATIONS
SCALE 1/2"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO

MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

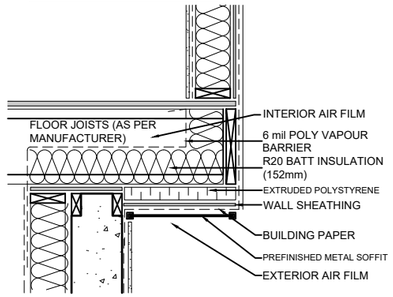
SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024
DESIGNER:SHAMILA

DATE MODIFIED
001 FEB-08-2024 -SR
002 FEB-13-2024 -SR
003 MAR-06-2024-KA
004 MAR-07-2024-SR
005 APRIL-02-2024-SR

JOB #:4056
SHEET NO.
P-15

CANTILEVERED FLOOR (UNFINISHED BELOW)



BLENDED RSI CALCULATION
- TJI JOISTS @ 19.2" o.c.
- R20 BATT INSULATION (152 mm - RSI 3.52)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{7.5}{152 \times 0.0085}\right) + \left(\frac{92.5}{3.52}\right)}$$

$$RSI = \frac{100}{\left(\frac{7.5}{1.292}\right) + \left(\frac{92.5}{3.52}\right)}$$

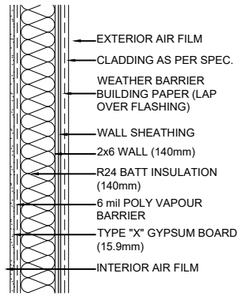
$$RSI = \frac{100}{\left(5.80495\right) + \left(26.27841\right)}$$

$$RSI = \frac{100}{32.08336}$$

RSI = 3.11688

EXTERIOR AIR FILM	0.03
PREFINISHED METAL SOFFIT	0.00
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
2" EXTRUDED POLYSTYRENE (50mm)	1.68
BLENDED RSI CALCULATION	3.11688
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.16
RSI_{EFF}	5.08

CANTILEVERED FRAMED WALL



BLENDED RSI CALCULATION
-2x6 WALL @24" O.C. (140mm X 0.0085 RSI/mm)
-R24 BATT INSULATION (140mm - RSI 3.87)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{140 \times 0.0085}\right) + \left(\frac{80}{3.87}\right)}$$

$$RSI = \frac{100}{\left(\frac{20}{1.19}\right) + \left(\frac{80}{3.87}\right)}$$

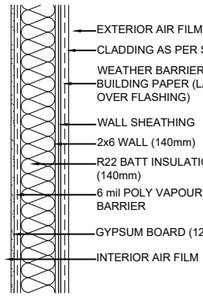
$$RSI = \frac{100}{\left(16.80672\right) + \left(20.67183\right)}$$

$$RSI = \frac{100}{37.47856}$$

RSI = 2.66819

EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.66819
VAPOUR BARRIER	0.00
GYPSUM - TYPE "X" (15.9mm)	0.09699
INTERIOR AIR FILM	0.12
RSI_{EFF}	3.12

WALK-OUT FRAMING WALL



BLENDED RSI CALCULATION
-2x6 WALL @16" O.C. (140mm X 0.0085 RSI/mm)
-R22 BATT INSULATION (140mm - RSI 3.87)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{23}{140 \times 0.0085}\right) + \left(\frac{77}{3.87}\right)}$$

$$RSI = \frac{100}{\left(\frac{23}{1.19}\right) + \left(\frac{77}{3.87}\right)}$$

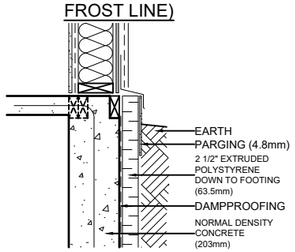
$$RSI = \frac{100}{\left(19.32773\right) + \left(19.89664\right)}$$

$$RSI = \frac{100}{39.22437}$$

RSI = 2.54944

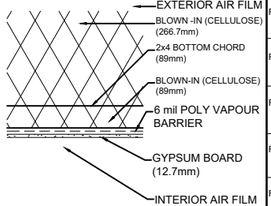
EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BLENDED RSI FROM CALCULATION	2.54944
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.98

WALKOUT FOUNDATION WALL (UNHEATED FLOOR ABOVE FROST LINE)



EARTH	0.00
PARGING (4.8mm)	0.00432
EXTRUDED POLYSTYRENE (63.5mm X 0.0336)	2.1336
NORMAL DENSITY CONCRETE (0.0004/mm)	0.08128
RSI_{EFF}	2.22

CEILING / ATTIC (HOUSE ONLY)



BLENDED RSI CALCULATION
-2x4 BOTTOM CHORD (89mm X 0.0085 RSI/mm)
-BLOW-IN INSULATION (89mm X 0.025/mm)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{11}{89 \times 0.0085}\right) + \left(\frac{89}{89 \times 0.025}\right)}$$

$$RSI = \frac{100}{\left(\frac{11}{0.7565}\right) + \left(\frac{89}{2.22}\right)}$$

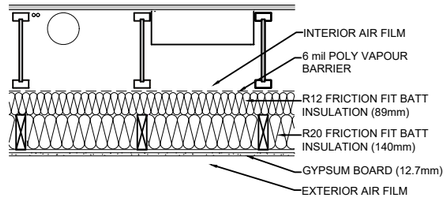
$$RSI = \frac{100}{\left(14.54065\right) + \left(40.09\right)}$$

$$RSI = \frac{100}{54.63065}$$

RSI = 1.83047

EXTERIOR AIR FILM	0.03
10.5" BLOWN-IN INSUL. (266.7mm X 0.025/mm)	6.67
BLENDED RSI FROM CALCULATION	1.83047
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.11
RSI_{EFF}	8.72

F3 - PROTECTED WARM FLOOR (OVER UNCONDITIONED SPACE)



BLENDED RSI CALCULATION
-2x6 JOISTS @ 19.2" o.c.
-R20 BATT INSULATION (140mm - RSI 3.34)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{11.5}{140 \times 0.0085}\right) + \left(\frac{88.5}{3.34}\right)}$$

$$RSI = \frac{100}{\left(\frac{11.5}{1.19}\right) + \left(\frac{88.5}{3.34}\right)}$$

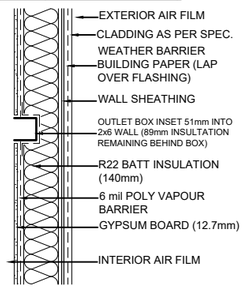
$$RSI = \frac{100}{\left(9.66387\right) + \left(26.49701\right)}$$

$$RSI = \frac{100}{36.16087}$$

RSI = 2.76542

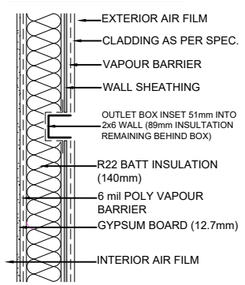
EXTERIOR AIR FILM	0.03
GYPSUM CD BOARD (12.7mm X 0.0063)	0.12
BLENDED RSI CALCULATION	2.76542
TOP LAYER OF R12 BATT INSULATION	2.11
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.16
RSI_{EFF}	5.19

WALL @ INTERIOR OUTLET BOX (HOUSE WALLS)



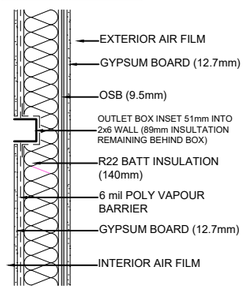
EXTERIOR AIR FILM	0.03
VINYL SIDING (HOLLOW BACKED)	0.11
BUILDING PAPER	0.00
OSB (9.5mm)	0.093
BATT INSULATION (89mm X 0.02764 RSI/mm)	2.46
POLY HAT	0.00
OUTLET BOX	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.81

WALL @ EXTERIOR OUTLET BOX (HOUSE WALLS)



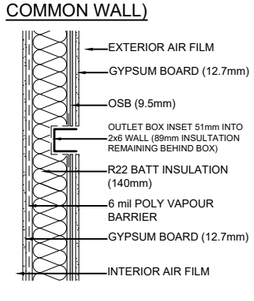
EXTERIOR AIR FILM	0.03
OUTLET BOX	0.00
POLY HAT	0.00
BATT INSULATION (89mm X 0.02764 RSI/mm)	2.46
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.69

WALL @ INTERIOR OUTLET BOX (HOUSE/GARAGE COMMON WALL)



EXTERIOR AIR FILM	0.03
GYPSUM (12.7mm)	0.08
OSB (9.5mm)	0.093
BATT INSULATION (89mm X 0.02764 RSI/mm)	2.46
POLY HAT	0.00
OUTLET BOX	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.78

WALL @ EXTERIOR OUTLET BOX (HOUSE/GARAGE COMMON WALL)



EXTERIOR AIR FILM	0.03
OUTLET BOX	0.00
POLY HAT	0.00
BATT INSULATION (89mm X 0.02764 RSI/mm)	2.46
VAPOUR BARRIER	0.00
GYPSUM (12.7mm)	0.08
INTERIOR AIR FILM	0.12
RSI_{EFF}	2.69

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phone: 780-970-1938

CLIENT:
SAMAR HOMES
PHONE: 780 308 9000

DRAWING TITLE
RSI CALCULATIONS
SCALE 1/2"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO	
MAIN FLOOR :	1222 SQ. FT.
UPPER FLOOR :	1341 SQ. FT.
TOTAL FLOOR AREA:	2563 SQ. FT.
GARAGE :	522 SQ. FT.
FOUNDATION CONCRETE SLAB:	1125 SQ. FT.

SUBDIVISION:IRVINE CREEK
LOT:25 | BLOCK:2 | PLAN: 232 1182
6268 19 STREET NE
LEDUC COUNTY,ALBERTA

DATE STARTED:01-02-2024
DESIGNER:SHAMILA

DATE MODIFIED	
001	FEB-08-2024 -SR
002	FEB-13-2024 -SR
003	MAR-06-2024-KA
004	MAR-07-2024-SR
005	APRIL-02-2024-SR

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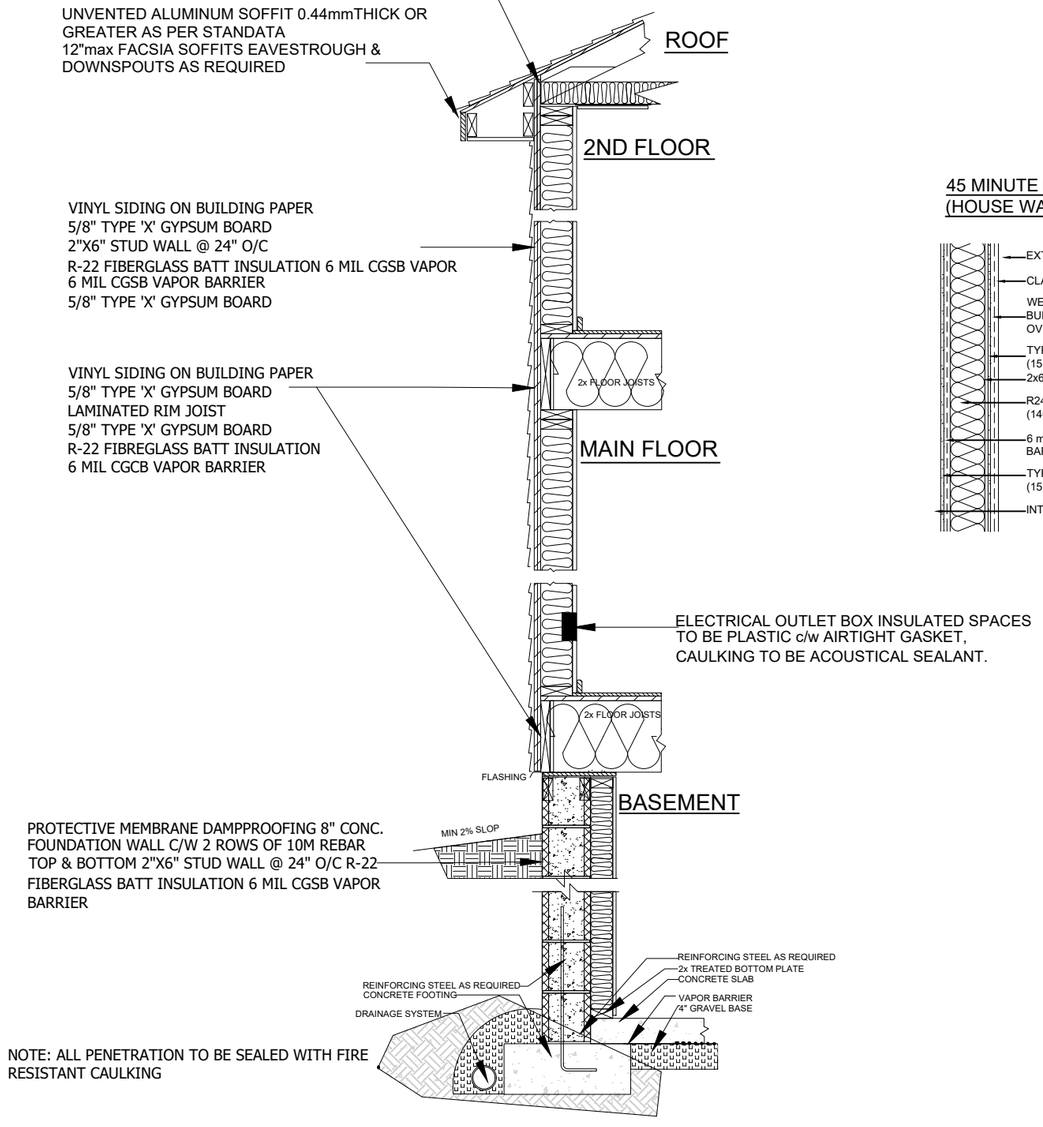
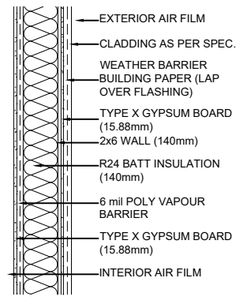
NOTE

EXTERIOR OSB & GYPSUM SHEATHING EXTENDS FROM TOP OF CONCRETE FOUNDATION WALL TO UNDERSIDE OF ROOF SHEATHING BETWEEN EACH ROOF TRUSS.



NOTE: ALL PENETRATION TO BE SEALED WITH FIRE RESISTANT CAULKING

45 MINUTE FIRE RATED (HOUSE WALLS)



BLENDED RSI CALCULATION -2x6 WALL @24" O.C. (140mm X 0.0085 RSI/mm) -R24 BATT INSULATION (140mm - RSI 3.87)			
$RSI = \frac{100}{\left(\frac{\%\text{ AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\text{AREA OF CAVITY}}{RSI_C}\right)}$		EXTERIOR AIR FILM	0.03
		VINYL SIDING (HOLLOW BACKED)	0.11
$RSI = \frac{100}{\left(\frac{20}{140 \times 0.0085}\right) + \left(\frac{80}{3.87}\right)}$		BUILDING PAPER	0.00
		TYPE X GYPSUM (15.88mm)	0.100
$RSI = \frac{100}{\left(\frac{20}{1.19}\right) + \left(\frac{80}{3.87}\right)}$		BLENDED RSI FROM CALCULATION	2.66819
		VAPOUR BARRIER	0.00
$RSI = \frac{100}{\left(16.80672\right) + \left(20.67183\right)}$		TYPE X GYPSUM (15.88mm)	0.100
		INTERIOR FILM	0.12
$RSI = \frac{100}{37.47856}$			
$RSI = 2.66819$		RSI_{EFF}	3.13

PROTECH HOME DESIGN
www.protechhomedesign.com
info@protechhomedesign.com
1324 Windermere Way SW, Edmonton, AB T6W 0P1
phone: 780-970-1938

CLIENT:
SAMAR HOMES
PHONE: 780 308 9000

DRAWING TITLE
45 MIN. FIRE RATED SECTION
SCALE 1/2"=1' APPLICABLE ON 11"X17" PAPER

MODEL	STYLE
CUSTOM	MODERN

FLOOR AREA INFO	
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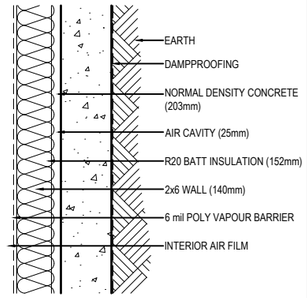
DEVELOPED BASEMENT NOTES:

-NBC 2019 - AE (9.11.1.1.2) PROTECTION FROM AIRBORNE NOISE SOUND ABSORBING MATERIAL (EG. BATT INSULATION) MUST BE INSTALLED IN WALLS AND FLOOR - CEILING ASSEMBLIES BETWEEN THE SUITE AND THE PRINCIPAL DWELLING, AND SUITE AND NON-SUITE SPACE WHERE NOISE MAY BE GENERATED (EG. SHARED LAUNDRY)
-MIN 6" BATTS IN THE CEILING BUT TAKE CARE TO NOT BLOCK RETURN AIR RUNS, FILL WALL CAVITIES. INSTALL RESILIENT CHANNEL (SOUND BAR) ON AT LEAST ONE SIDE OF WALLS AND ON THE UNDERSIDE OF THE FLOOR-CEILING ASSEMBLY
-BASEMENT STAIRWAY DOOR MUST BE FIRE RATED WITH KEY LOCK ON BOTH SIDES
-EGRESS WINDOW MINIMUM REQUIREMENTS - NBC 2019 - AE:B9.9.10.1 380mm (15") IN HEIGHT AND WIDTH 0.35m2 (3.77FT2)IN UNOBSTRUCTED OPEN AREA . 760mm (30") WELL IN FRONT OF WINDOW WHERE REQUIRED.
-THE EXACT LOCATION OF HEAT REGISTERS & ELECT. OUTLETS TO BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR & MAY VARY FROM THE LOCATION DRAWN

FOUNDATION WALL (BELOW GRADE)



BLENDED RSI CALCULATION
- 2x6 WALL @ 24" O.C. (140mm X 0.0085 RSI/mm)
- R20 BATT INSULATION (152mm - RSI 3.52)

$$RSI = \frac{100}{\left(\frac{\%\ \text{AREA OF FRAMING}}{RSI_F}\right) + \left(\frac{\%\ \text{AREA OF CAVITY}}{RSI_C}\right)}$$

$$RSI = \frac{100}{\left(\frac{13}{140 \times 0.0085}\right) + \left(\frac{87}{3.52}\right)}$$

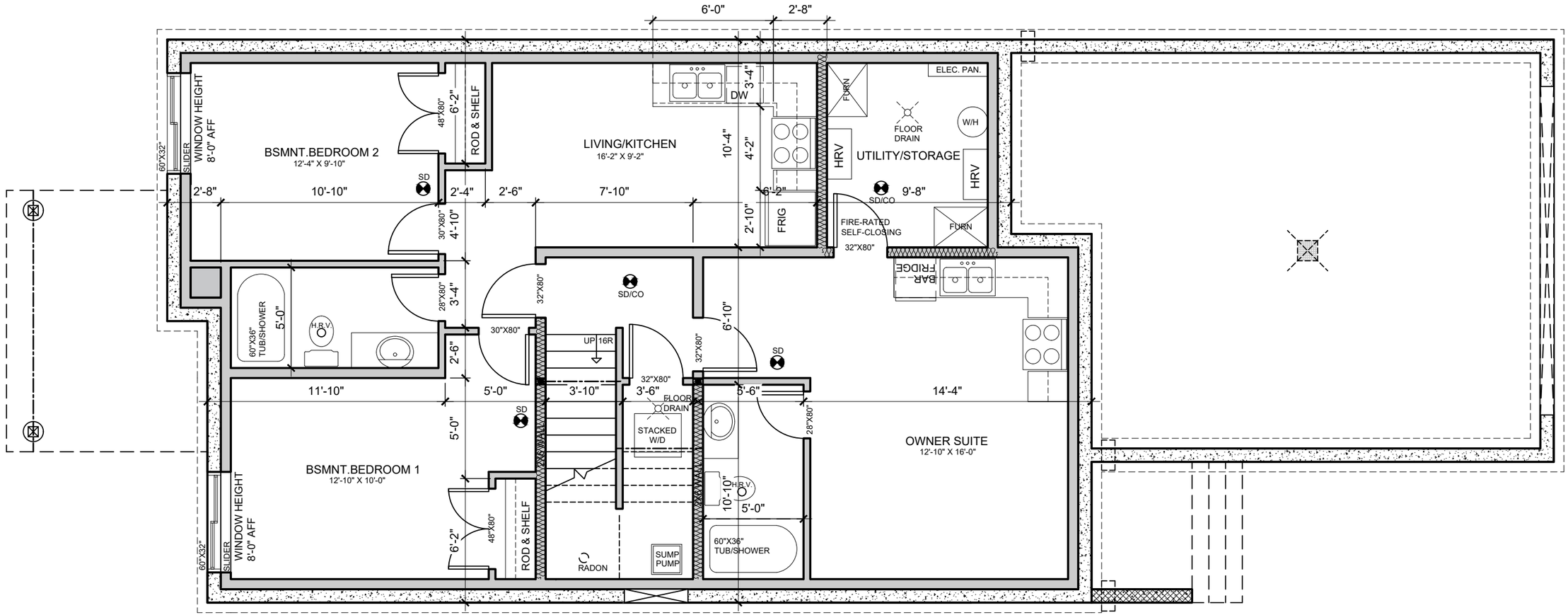
$$RSI = \frac{100}{\left(\frac{13}{1.19}\right) + \left(\frac{87}{3.52}\right)}$$

$$RSI = \frac{100}{\left(10.92437\right) + \left(24.71591\right)}$$

$$RSI = \frac{100}{35.64028}$$

RSI = 2.80581

EARTH	0.00
NORMAL DENSITY CONCRETE (0.0004/mm)	0.08128
AIR CAVITY (25mm)	0.00
BLENDED RSI FROM CALCULATION	2.80581
VAPOUR BARRIER	0.00
INTERIOR AIR FILM	0.12
RSI_{EFF}	**3.01**



LIVING AREA: 1033 SQ.FT (EXCLUDING UTILITY RM)

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DRAWING TITLE
DEVELOPED BASEMENT PLAN
SCALE 3/16"=1' APPLICABLE ON 11"X17" PAPER

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