

DRS. DIGHE RESIDENCE

Windsor, Ontario

MONTEMURRI
 RESIDENTIAL DESIGN
 WINDSOR, ONTARIO TEL: 519-564-9441
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Project
DRS. DIGHE RESIDENCE
 Windsor, Ontario

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Project No.
108-22

Note:
 Engineer shop drawings, for any "manufactured component" forming part of the building, the engineer must issue, engineer floor and interior, must be submitted and approved. Montemurri & Associates is not responsible for any associated costs or damages.

GENERAL NOTES:

General:

Site plan generated is based upon municipal zoning information as obtained from the local building department where the project is to be constructed. Montemurri & Associates will not be responsible for determining other restrictions that are applied to the property (ie. easements, restrictive covenants etc.).

Montemurri & Associates is not responsible for obtaining any permits, approvals, or authorizations by any governing bodies for the construction of this project.

Upon receipt of the building permit, Montemurri & Associates is to be notified immediately by the permit holder, of any issues or concerns the building department has noted on the permit set. If not notified, Montemurri & Associates is not responsible for any associated costs or damages.

Engineered shop drawings, for any "manufactured component" forming part of the building (ie. engineered roof trusses, engineered floor joist, timbers etc.), must be submitted to Montemurri & Associates for review and written approval. If engineered shop drawings are not submitted and approved, Montemurri & Associates is not responsible for any associated costs or damages.

Materials or construction procedures with are prohibited by law or shall cause a harmful effect to the natural environment or to the health of any person on the site during construction and/or during occupancy shall not be used in this project.

All trades shall conform with all applicable federal, provincial & local codes, rules and regulations. In case of conflict, the most stringent requirement shall apply.

All construction methods and materials shall comply with the current building codes, ordinances and requirements as adopted by the local governing body where the building is to be located.

These notes are for general reference only; where conflicts exist between these notes and current codes the more stringent requirements shall prevail.

Do not scale drawings; use printed dimensions only. If any discrepancy occurs, notify the designer and/or owner for direction.

Soils:

A soils investigation by a qualified and licensed soils engineer must be provided at each building location prior to construction. In addition to other pertinent information, each report shall include the following:

- Allowable soil bearing capacity and recommendations for improvement if required.
- Water drainage and hydrostatic pressure analysis including recommendations for relief of any adverse conditions.

If there is a conflict between the soils investigation and information on the construction documents, the most stringent and conservative condition shall govern.

Sump Pit and Pump:

Provide sump pit with pump in basement if recommended by soil engineer.

Sump pit to be designed to resist removal by children, and pit covers shall be sealed to maintain continuity of air barrier system. Refer to O.B.C. 9.14.5.2 & 9.25.3.3.(16).

Foundation Notes:

Foundations and footings have been designed based on a minimum soil bearing capacity of 3,000 p.s.f.

Compressive strength of concrete after 28 days shall be at least 32 MPa for a garage and carport floors and all exterior walkway. All concrete used for garage and carport floors and exterior steps shall have air entrainment of 3% to 8%. Concrete work and placement shall conform to the latest specification of C.R.S.I. and A.C.I.

Compressive strength of concrete after 28 days shall be at least 20 MPa for foundation walls.

Minimum footing depth shall be 4'-0" below finished grade.

Remove all fill and organic materials from areas to receive floor slabs. Prepare areas per soils engineer's recommendation.

All reinforcing bars, dowels, and ties shall conform to A.S.T.M A615 Grade 60. Reinforcing steel shall be continuous and shall have minimum 36 bar diameter lap, unless shown or noted. All reinforcing bars shall be deformed.

Provide temporary bracing as required to insure the stability of the structure until the permanent framing is in place.

All block shall be type N-1; mortar is to be type "N"; horizontal wire reinforcing shall be at 16" o.c. in all masonry walls.

Provide sill plate anchor bolts at 4'-0" o.c. (max) and 12" from end of sill plates. Anchor bolts shall be 1/2" diameter (min) and shall extend 15" (min.) into grouted concrete block or 8" (min.) into poured in place concrete footing or 8" into grouted concrete block plus 7" into poured in place concrete footing.

Provide 24" rigid insulation at all perimeter slab on grade conditions. See drawings for thickness.

Waterproof all brick, block and poured concrete walls at any below grade conditions unless directed otherwise by the soils engineer.

Provide 6 mil vapor barrier under all concrete slab on grade conditions and at all attached garage area concrete slabs.

All poured concrete walls to be backfilled with sandy type soil and be well braced until concrete is thoroughly cured and additional weight of the building is in place. Do not use frozen material for backfill.

Crack control joints shall be provided in foundation walls more than 70 feet long at intervals of not more than 35 feet and should be designed to resist moisture penetration per section 9.15.4.6.

Loading Conditions:

	Live load	Dead load	Total
Floor habitable	40	15	55 p.s.f.
Floor with marble, stone or other hard finish material on grout bed.	40	35	75 p.s.f.
Wind load	25	25	25 p.s.f.
Roof pitched or flat	30	15	45 p.s.f.
Flat with ballast	30	25	55 p.s.f.

(Note): All floors were designed to a total load of 50 p.s.f. If a hard finish material in a grout bed is to be installed or other special loading conditions are anticipated consult designer for a structural analysis of the condition.

Trusses:

Floor truss manufacturer shall design and provide trusses to have a maximum deflection of 3/8" for spans greater than 16'-0" and 1/480 for spans under 16'-0".

Truss manufacturer shall be responsible for all truss designs including girders, hangers, bearing seats and anchors for trusses.

Truss framing shown on plans is for general reference and to indicate bearing locations. Manufacturer shall notify designer if additional bearing points and/or walls are needed prior to fabrication and erection.

All roof trussing shall be braced per manufacturer's recommendations or as required on drawings.

Framing & Materials:

Studs (bearing walls): Spruce-pine-fir, kiln dried, No. 2 or better.

Studs (non-bearing walls): Spruce-pine-fir, kiln dried, stud grade or better.

Joists, rafters, and headers: Fiber bending stress 1250 PSI elasticity Modulus 1,400,000 PSI or better.

Wall plates, non-structural blocking: Spruce-pine-fir, kiln dried, utility grade or bettered gra

Perimeter sill plates: Spruce-pine-fir, kiln dried, No. 2 or better. Set perimeter sill plates on sill sealer.

Furring: Spruce-pine-fir, kiln dried, No. 3 or better.

Use metal joist hangers only where joists hang from beams, walls or other supports. No joist angles allowed.

Floor Truss framing and TJI floor joist on drawings is designed for carpet, wood or ceramic tile floor finishes. If the floor material changes, notify the designer immediately for a structural redesign of the floor system to accommodate the dead load of the new floor material.

All micro lam beams are by Trus Joist MacMillan and are to be joined together per manufacturer printed specifications.

Provide 2 x 6 blocking at 16" o.c. between rim joist and header joist under all partitions parallel to floor framing direction. Provide solid bearing under all point load conditions to top of foundation wall on steel beam to

Studs in all walls to be spaced 16" o.c. unless noted otherwise. All studs to be continuous from floor to upper floor or roof.

Bearing Walls:

Provide 2 x 4 solid blocking at 16" o.c. on 2 x 4 ledger boards between header joists (see drawings for size of member) under all in-line bearing partitions from floor above.

Provide solid blocking at all point load conditions continuous to solid bearing at headers or foundation.

Provide solid blocking at all bearing walls perpendicular to framing direction.

Wall Framing:

Exterior wood framed walls over 9'-0" in height shall be of minimum 2 x 6 construction. All studs shall be continuous from floor to underside of floor or roof framing above.

All structural mullions to have minimum double stud construction continuous from floor to underside of floor or roof framing above. Window transom headers shall span between continuous studs with flush hanger brackets as required.

Provide continuous studs to underside of roof framing at all sloped ceiling conditions. (Ballroom construction.)

Lower level (basement) exterior frame walls shall be minimum 2 x 6 framing at 16" o.c. with pressure treated base plate. Interior lower level bearing walls shall be 2 x 6 framing at 16" o.c.

Provide in the main bathroom stud wall reinforcement for the future use of grab bars

Wall Sheathing:

Structural grade for lateral loading. When non-structural sheathing is used provide let-in diagonal wind bracing or other type of bracing at all exterior corners of structure.

Roofing:

Asphalt shingles shall not be installed on roof slopes below two units vertical in 12 units horizontal (2:12). Double-layer underlayment shall be required on roof slopes below four units vertical in 12 units horizontal (4:12). Single-layer underlayment is required on all other roof slopes. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle, or not less than two fasteners per individual shingle. Shingle headlap shall not be less than 2 inches (51mm). Installation at valleys, use "cut valley" method.

Provide ventilation per O.B.C. 9.19.1.2. Unobstructed vent area not less than 1/300 of insulated ceiling. Where roof slope is slope less than 1 in 6 unobstructed vent area must not be less than 1/150 of insulated ceiling. Min. 25% required openings located at the top of bottom of space. Venting to be uniformly distributed on all sides of building.

Roof Penetrations:

All plumbing, mechanical vent stacks and furnace flues shall be offset to rear roof lines. Flashing at all penetrations as required.

Attic Access:

A readily-accessible opening not less than 22" x 28" shall be provided to any attic area having a clear height of over 30".

Hatch to be weather stripped and insulated.

Stairs:

All stairs shall conform to code for allowable riser height and tread depth. (Minimum 9 1/4" treads and maximum 7 7/8" risers in single family dwellings.)

Handrails shall be provided on at least one side of stairways of two (2) risers or more having a width of less than 44". Provide additional handrails as required by code on wider stairways.

Handrail to have a diameter size of 1 1/2" min. 2" max.

All handrails shall be located at a height of 34" min. and 38" max. above nose of tread. The size and shape of handrails shall conform to current code requirements.

Guard rail:

Balusters shall be spaced so that a sphere with a diameter of 4 inches cannot pass through the opening.

Top of railings shall be a minimum of 42" high above finished floor or nose of stair tread. The space below a guard rail shall be constructed such that a sphere with a diameter of 6 inches shall not be able to pass through any opening.

Doors:

All doors shall be 6' - 8" high unless noted otherwise.

Doors between house and garage to be solid core fire rated steel door with automatic closer and weatherstripping.

All exterior swing type doors to have a dead-bolt locking mechanism.

Windows and Glazing:

A minimum of one (1) window in each sleeping area shall meet emergency egress requirements. Window contractor shall provide egress hardware necessary to allow windows to meet applicable egress requirements.

Fixed glazing shown as for reference only. Glazing contractor shall field measure all rough openings for fixed glass prior to fabrication.

Operating sash are shown for basic sizing only. Final size for rough opening and glazing shall be per selected window manufacturer's standards.

Provide the appropriate safety glass (in accordance with all applicable building codes) for all hazardous locations listed below:

- Glazing in ingress and egress doors except wired glass in required fire doors and jalousies.
- Glazing in fixed sliding panels of sliding type doors (patio and mall type).
- Glazing in storm doors.
- Glazing in all unframed swinging doors.
- Glazing in shower and bathtub doors and enclosures.
- Glazing, operable or inoperable, adjacent to a door in all buildings and within the same plane as the door whose nearest vertical edge is within twelve (12) inches of the door in a closed position and whose bottom edge is less than sixty (60) inches above the floor or walking surface.
- Glazing in fixed panels having a glazed area in excess of nine (9) square feet with lowest edge less than eighteen (18) inches above the finished floor or walking surface within thirty-six (36) inches of such glazing. In lieu of safety glazing such glazed panels may be protected with a horizontal member not less than one and one half (1 1/2) inches in width when located between twenty-four (24) and thirty-six (36) inches above the walking surfaces.

Insulation:

Insulation requirements are to meet or exceed those for a Zone 1 Compliance Package for Space Heating with AFUE = 92%.

Thermal batt and blanket insulation shall have a kraft faced vapor barrier.

Insulation shall be installed in such a manner as to allow free air flow from the soffit to the roof space.

Ventilation of concealed roof spaces shall be maintained.

Gypsum Board:

Garage shall be completely separated from the residence and its attic area by means of 1/2" gypsum board applied to the garage side.

Smoke / Carbon Monoxide Detectors:

Each sleeping area shall be provided with a minimum of one (1) smoke detector (local fire department approved and Underwriters Laboratories listed and labeled) installed adjacent to the sleeping area. The smoke detector shall be installed in accordance with all applicable codes. Where more than one (1) detector is required to be installed within an individual dwelling unit, the detectors shall be wired in such a manner that the actuation of one (1) alarm will actuate all the alarms in the individual unit. At least one alarm shall be provided at each floor.

Plumbing:

All hose bibbs to have back-flow prevention.

Drawn By

LM

Checked By

LM (BCIN: 31501)

Issued:

Montemurri & Associates
 Company BCIN : # 33339

August 1, 2023



only valid with authorized signature
 from Montemurri & Associates

Date

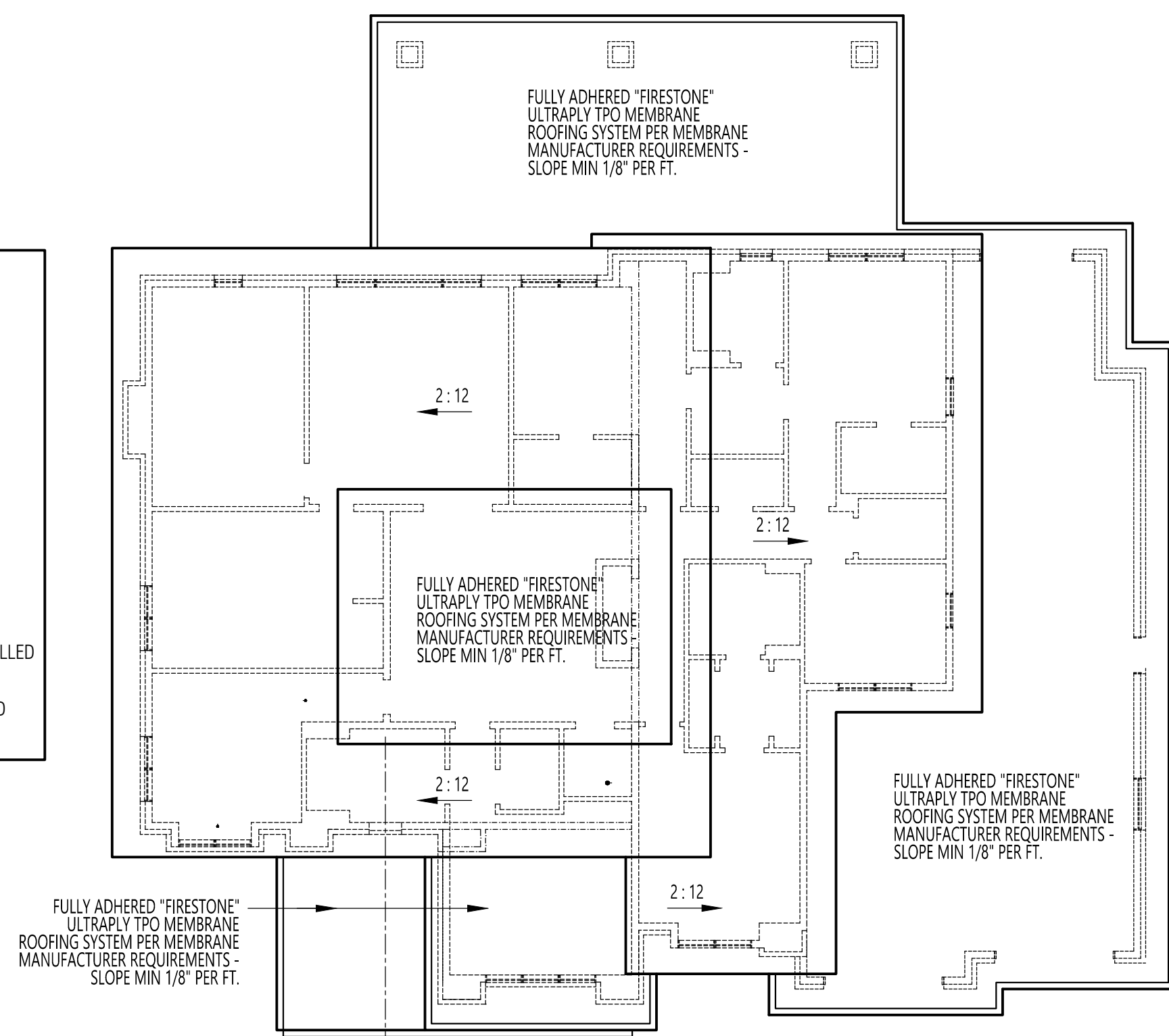
AUGUST 1, 2023 : PERMIT

Sheet No.

G-1.01

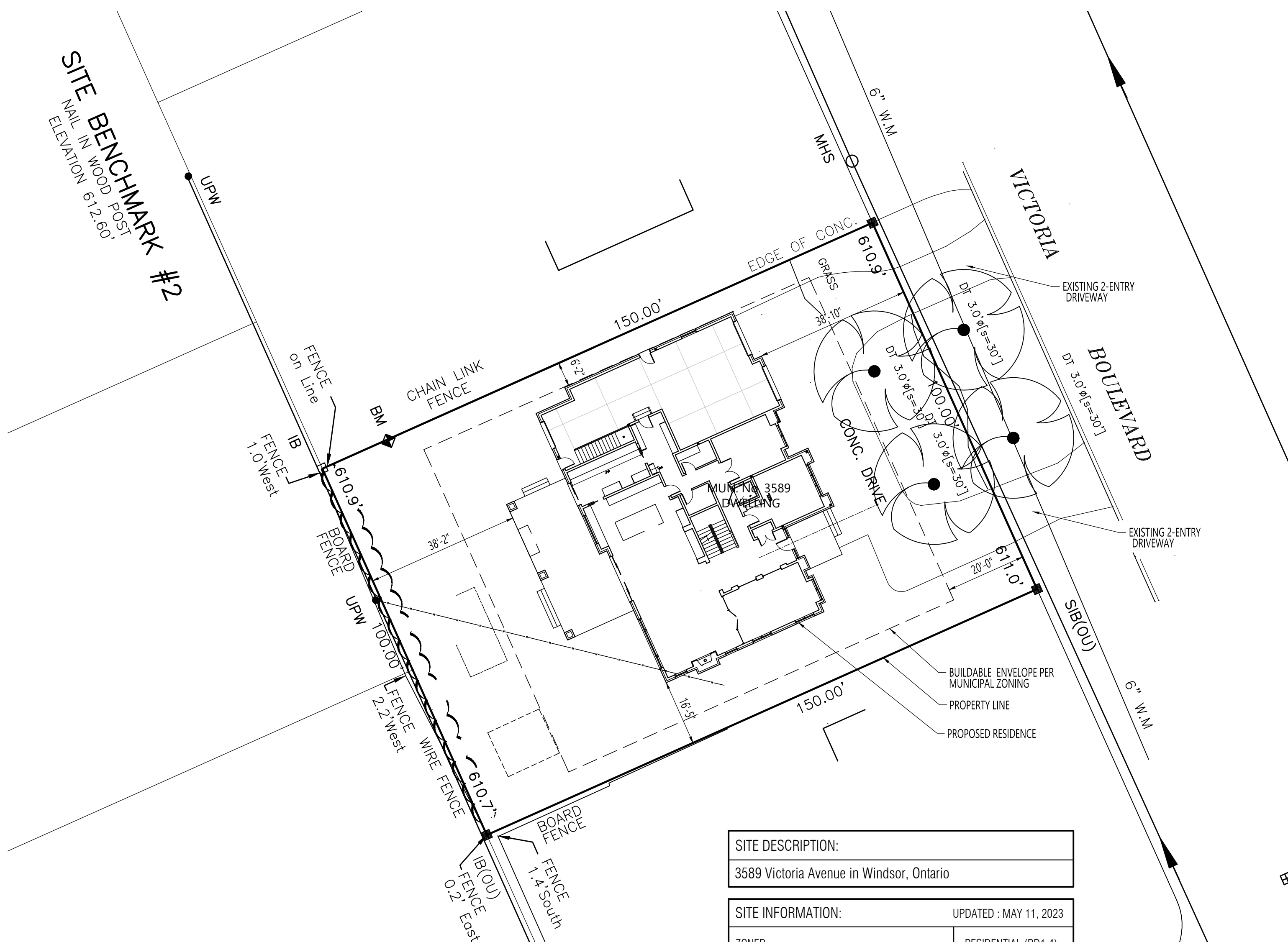
ROOFING NOTES:

- ROOF VENTILATION PER O.B.C. 9.19.1.2
- OFFSET ALL THRU-ROOF VENTS TO REAR PORTION OF ROOF.
- FINAL ROOF TRUSS DESIGN BY CERTIFIED TRUSS MANUFACTURER. BUILDING CONTRACTOR TO BE NOTIFIED OF ANY CHANGES MADE FROM PROPOSED LAYOUT.
- TRUSS SHOP DRAWINGS TO BE SUBMITTED TO DESIGNER FOR CONFORMANCE REVIEW.
- REFER TO ELEVATIONS FOR OVERHANG DIMENSIONS
- PROVIDE ICE AND WATER SHIELD AT ALL VALLEYS AND UP ROOF A MIN. OF 24" INTO HEATED SPACE.
- PROVIDE GUTTERS AND DOWNSPOUTS FOR CONTROLLED DRAINAGE OF ROOF WATER.
- WATER RUN-OFF IS TO BE CONTROLLED ON SITE AND NOT TO SHED ONTO ADJACENT PROPERTIES.



ROOF PLAN

SCALE: 1" = 10'



SITE DESCRIPTION:	
3589 Victoria Avenue in Windsor, Ontario	
SITE INFORMATION:	
	UPDATED : MAY 11, 2023
ZONED	RESIDENTIAL (RD1.4)
TOTAL AREA OF LOT:	15,000 SQFT
TOTAL FOOTPRINT OF MAIN STRUCTURE (INCLUDING GARAGE AND COVER PORCHES)	5,271 SQFT
TOTAL LOT COVERAGE (MAX. 45%):	35%

SITE PLAN

SCALE: 1" = 20'



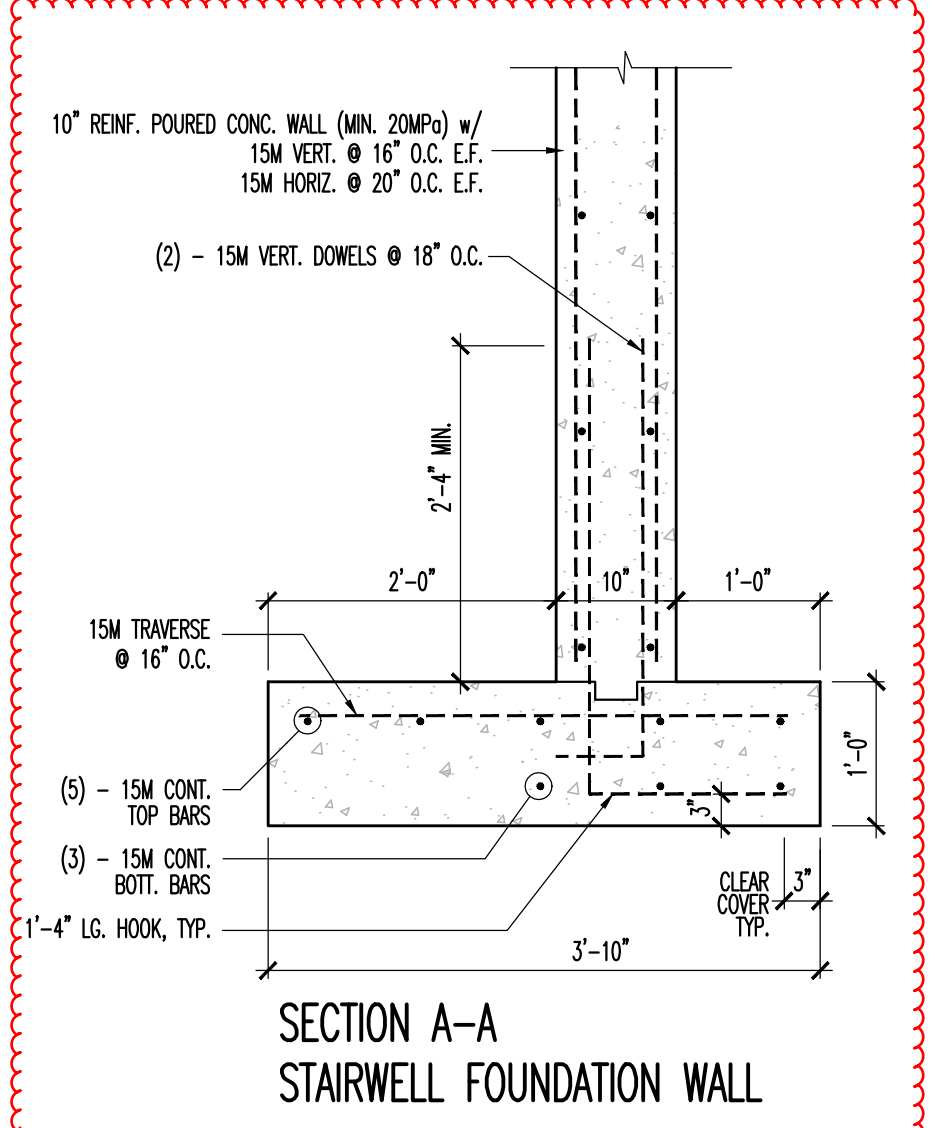
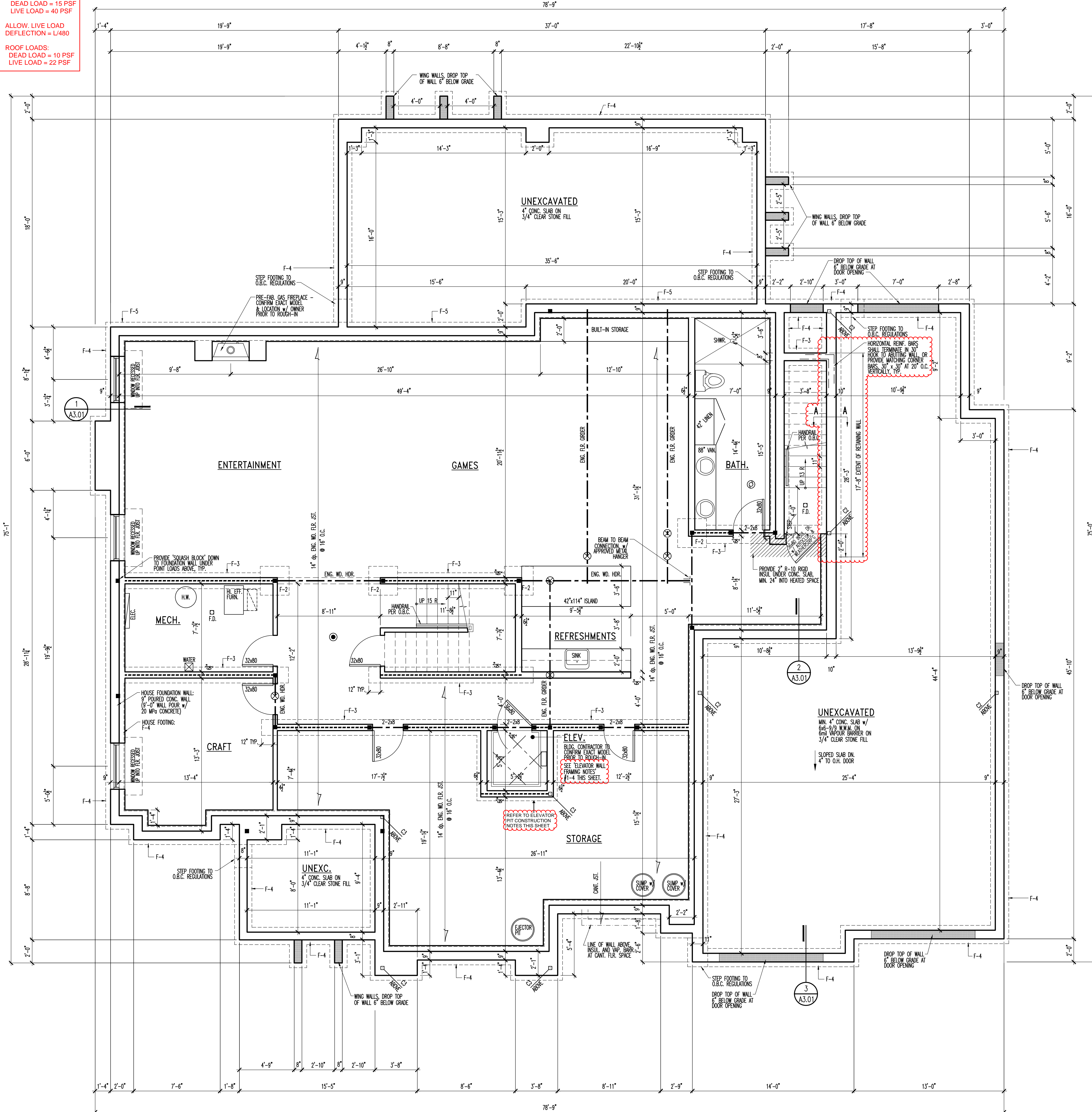
DESIGN CRITERIA

FLOOR LOADS:
DEAD LOAD = 15 PSF
LIVE LOAD = 40 PSF

ALLOW LIVE LOAD DEFLECTION = L/480

ROOF LOADS:
DEAD LOAD = 10 PSF
LIVE LOAD = 22 PSF

FOR THE STRUCTURAL DESIGN OF LATERALLY UNSUPPORTED FOUNDATION WALL AND ELEVATOR FOUNDATION (BUBBLED)



MARK	DESIGNATION
F-1	24" x 24" x 10" POURED CONC. PAD FOOTING w/ OPTIONAL (2) 15M BARS EACH WAY
F-2	30" x 30" x 12" POURED CONC. PAD FOOTING w/ OPTIONAL (2) 15M BARS EACH WAY
F-3	16" x 8" POURED CONC. STRIP FOOTING w/ OPTIONAL (2) 15M BARS CONT. HORIZ.
F-4	20" x 8" POURED CONC. STRIP FOOTING w/ OPTIONAL (2) 15M BARS CONT. HORIZ.
F-5	22" x 8" POURED CONC. STRIP FOOTING w/ OPTIONAL (2) 15M BARS CONT. HORIZ.

MARK	DESIGNATION
1 1/2" TYP.	3 1/2" x 3 1/2" x 1/4" H.S.S. COLUMN w/ 10" x 10" x 3/4" BASE PLATE ANCHORED TO CONCRETE FOOTING w/ 4-5/8" DIA. x 4" LONG EXPANSION BOLT ANCHORS
C-1	
1 1/2" TYP.	3 1/2" x 3 1/2" x 1/4" H.S.S. COLUMN w/ 10" x 5" x 3/4" BASE PLATE ANCHORED TO CONCRETE WALL w/ 2-5/8" DIA. x 1'-4" LG. HOOKED ANCHOR BOLTS, TYP.
C-2	
2 1/2" TYP.	3 1/2" x 3 1/2" x 1/4" H.S.S. COLUMN w/ 7" x 7" x 3/4" BASE PLATE ANCHORED TO CONCRETE WALL w/ 2-5/8" DIA. x 1'-4" LG. HOOKED ANCHOR BOLTS, TYP.
C-3	

- LEGEND**
- NEW 2x... WALLS
 - INTERIOR BEARING WALL
 - LINE OF WALL ABOVE
 - INTER-CONNECTED SMOKE ALARM w/ CO DETECTOR w/ SMOKE LUSH & BATTERY BACK UP, (PER 9.10.15)
 - EXHAUST FAN
 - PIT LOAD FROM ABOVE
 - BUILT UP COLUMN PER O.B.C.
 - SHOWER HEAD
- FOUNDATION LEVEL NOTES:**
- PROTECTION FROM BACKLASH SHALL BE INSTALLED IN ACCORDANCE WITH O.B.C. DIVISION B, SECTION 2 AND THE REFERENCED CANADIAN STANDARDS. THE B.W.P. SHALL BE LOCATED WITHIN THE BEARING WALL AND BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE PURPOSES.
 - SUMP PITS TO BE DESIGNED TO RESIST REMOVAL BY CHILDREN AND PIT AND PIT COVERS SHALL BE SEALED TO MAINTAIN CONTINUITY OF THE AIR BARRIER SYSTEM. PER O.B.C. 9.14.3.2 & 9.25.3.3.(16)
 - ALL NEW FURNANCES MUST BE EQUIPPED WITH AN ELECTRONICALLY COMMUTATED MOTOR AND MUST BE DESIGNED TO CSA-P280-2012
 - ROOF TRUSS & FLOOR JOIST MANUFACTURER TO VERIFY ALL POINT LOAD CONDITIONS NOTED AND SITE LOCAL SUPPORTING MEMBER ACCORDINGLY. DESIGNER TO BE NOTIFIED IF PROPOSED STRUCTURAL LAYOUT IS ALTERED.
 - A REQUIRED SMOKE ALARM SHALL HAVE VISUAL SIGNALING COMPONENT CONFORMING TO THE REQUIREMENTS IN 18.5.3. (LIGHT, COLOUR AND PULSE CHARACTERISTICS) OF NFPA 72, "NATIONAL FIRE ALARM AND SIGNALING CODE."
 - INDICATES INTERIOR LOAD BEARING WALL ON STRIP FIG
 - ALL STEEL COLUMNS TO BE LOCATED IN CENTER OF STUD WALL UNLESS NOTED OTHERWISE.

- ELEVATOR WALL FRAMING NOTES:**
- ELEVATOR RAIL BACKING COLUMN CONSTRUCTION: 3-PLY BUILT-UP 2x10 x 2x6 EACH SIDE TOP 1x1/2" GRADE OR BETTER; 2x10's AND 2x6's SHALL BE LAMINATED w/ WOOD GLUE AND SCREWED w/ #10 SCREWS 1 x 4-1/2" LG. AT 6" O.C. STAGGERED, TYPICAL FOR TWO (2) RAILS.
 - ALL JOINTS IN COLUMN SHALL BE STAGGERED w/ 24" LG. MIN. LAP.
 - RAIL SUPPORT BRACKETS SHALL BE BOLTED THRU EACH 3-PLY 2x10 SHUT-UP COLUMN w/ 1/2" DIA. LAG BOLTS, TWO (2) BOLTS PER COLUMN AT EACH BRACKET LOCATION
 - TYPICAL ELEVATOR WALL FRAMING: 2x6 STUDS AT 16" O.C. w/ 2x6 BOTTOM PLATE & 2-2x6 TOP PLATE (SPF NO.1/2 GRADE OR BETTER), PROVIDE 2x6 BLOCKING BETWEEN STUDS AT 5'-0" O.C. MAX. VERTICALLY AT ELEVATOR WALL SUPPORT COLUMNS.
- ELEVATOR PIT CONSTRUCTION NOTES:**
- ELEVATOR MAT FOOTING CONSTRUCTION: 12" THICK POURED CONCRETE MAT FOOTING REINFORCED w/ 15M BARS AT 16" O.C. TOP & BOTTOM, EACH WAY ON VERTICE BRACKET ON UNDESIGNED SOIL w/ 4" DIA. B.S. OF PERMETER DRAIN TILE, PROVIDE 45MM AND 8" PVC CONCRETE-SLEEVE STYLE WATERSTOPPING FOUNDATION WALLS PROVIDE ADDITIONAL 4-15M x 4-0" LG. TOP & BOTTOM AROUND ELEVATOR SUMP PIT.
 - ELEVATOR PIT FOUNDATION WALL CONSTRUCTION: 8" WIDE POURED CONC. FOUNDATION WALL REINFORCED w/ 15M VERTICAL BARS & 8" HOOK TO MAT FOOTING AT 2'-0" O.C. MAX. & AT ALL CORNERS AND 15M CONT. TOP BAR. HEIGHT OF FOUNDATION WALL TO BE 1/2" ABOVE FINISH FLOOR TO BE COORDINATED w/ FINAL APPROVED ELEVATOR DRAWINGS.

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

MONTEMURRI
RESIDENTIAL DESIGN
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Project
Drs. Dighe Residence
Windsor, Ontario

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Note:
Engineered shop drawings, for any manufactured component forming part of the building, are engineering not a seal, engineering flow and, therefore, I, the seal, is not a seal of Montemurri & Associates for review and approval. I, the engineer, shall be responsible for the design and approval. Montemurri & Associates are not responsible for any associated costs or damages.

LEGEND

- NEW 2x... WALLS
- INTERIOR BEARING WALL
- LINE OF WALL ABOVE
- INTER-CONNECTED SMOKE ALARM w/ CO DETECTOR w/ SMOKE LUSH & BATTERY BACK UP, (PER 9.10.15)
- EXHAUST FAN
- PIT LOAD FROM ABOVE
- BUILT UP COLUMN PER O.B.C.
- SHOWER HEAD

Drawn By
LM

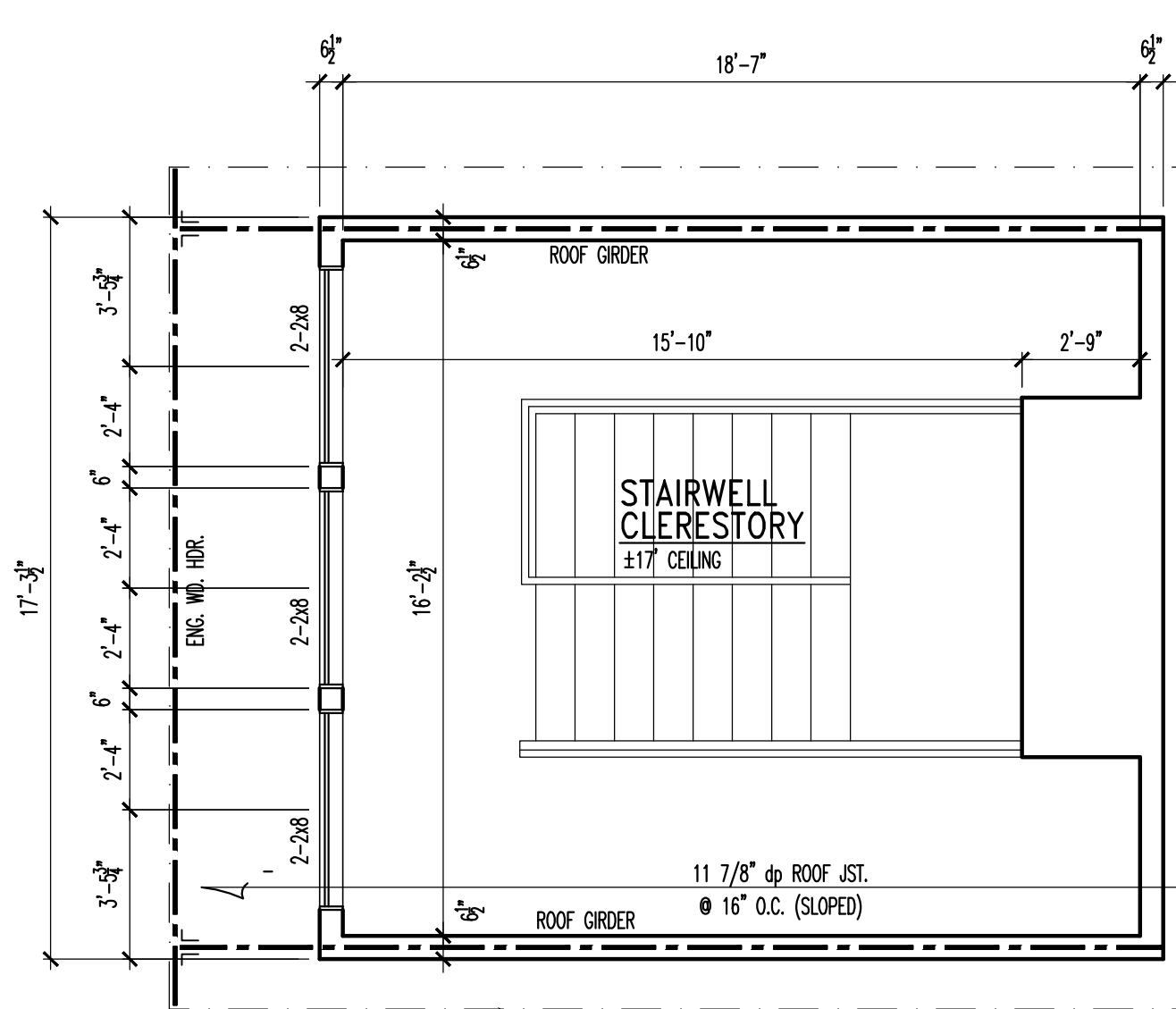
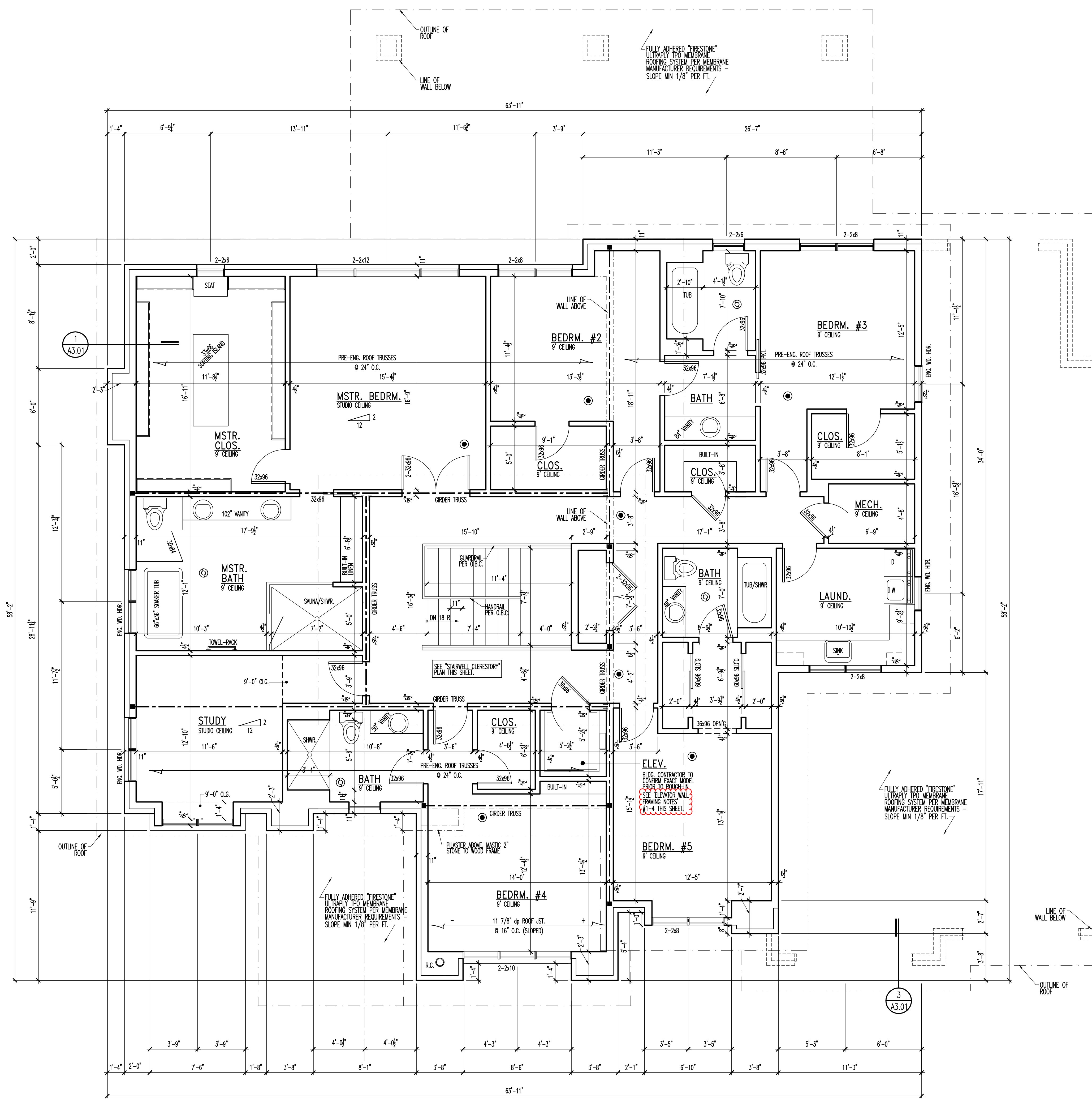
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LM (BCIN: 31501)

Issued:
Montemurri & Associates
Company BCIN: # 33339
August 1, 2023



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*** from Montemurri & Associates***

Date
AUGUST 1, 2023: PERMIT



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

- FLOORPLAN NOTES:**
- ALL EXTERIOR ENTRY DOORS TO COMPLY W/ SECTION 9.6.8. OF THE OBC RESISTANCE TO FORCED ENTRY.
 - PROVIDE IN THE MAIN BATHROOM STUDY WALL REINFORCEMENT FOR THE FUTURE USE OF "GRAB BARS" PER SECTION 9.5.2.3.(1)
 - CLOTHES DRYERS AND EXHAUST FANS TO EXHAUST TO EXTERIOR W/ NON-COMBUSTIBLE DUCT.
 - ROOF TRUSS & FLOOR JOIST MANUFACTURER TO VERIFY ALL JOINT LOAD CONDITIONS NOTED AND SIZE ALL SUPPORTING MEMBERS ACCORDINGLY. DESIGNER TO BE NOTIFIED IF STRUCTURAL LAYOUT IS ALTERED.
 - A REQUIRED SMOKE ALARM SHALL HAVE VISUAL SIGNALING COMPONENT CONFORMING TO THE REQUIREMENTS IN 18.5.3. FLUORESCENT COLOR AND PHASE CHARACTERISTICS OF NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE.
 - INDICATES INTERIOR LOAD BEARING WALL FRAMING.
 - ALL STEEL COLUMNS TO BE LOCATED IN CENTER OF STUDO WALL UNLESS NOTED OTHERWISE.
 - MILLWORK AND BUILT-INS SHOWN ARE SCHEMATIC. FINAL MILLWORK DESIGN BY MILLWORK MANUFACTURER.

- ELEVATOR WALL FRAMING NOTES:**
- ELEVATOR RAIL BACKING COLUMN CONSTRUCTION: 3-PLY BUILT-UP 2x10 x 2x6 EACH SIDE (SPF NO.1/2 GRADE OR BETTER); 2x10'S AND 2x6'S SHALL BE LAMINATED W/ WOOD GLUE AND SCHEDULED W/ F10 SCREWS X 4-1/2" LG. AT 6" O.C. STAGGERED. TYPICAL FOR TWO (2) RAILS.
 - ALL JOINTS IN COLUMN SHALL BE STAGGERED W/24" LG. MIN. LAP.
 - RAIL SUPPORT BRACKETS SHALL BE BOLTED THRU EACH 3-PLY 2x10 BUILT-UP COLUMN W/ 1/2" DIA. LAG BOLTS, TWO (2) BOLTS PER COLUMN AT EACH BRACKET LOCATION.
 - TYPICAL ELEVATOR WALL FRAMING: 2x6 STUDS AT 16" O.C. W/ 2x6 BOTTOM PLATE & 2x6 TOP PLATE (SPF NO.1/2 GRADE OR BETTER); PROVIDE 2x6 BLOCKING BETWEEN STUDS AT 5'-0" O.C. MAX VERTICALLY AT ELEVATOR RAIL SUPPORT COLUMNS.
- ELEVATOR PIT CONSTRUCTION NOTES:**
- ELEVATOR MAT FOOTING CONSTRUCTION: 12" THICK POURED CONCRETE MAT FOOTING REINFORCED W/ 15M BARS AT 16" O.C. TOP & BOTTOM, EACH WAY ON VAPOUR BARRIER ON UNDISTURBED SOIL W/ 4" DIA. 8" O.D. PERIMETER DRAIN TILE, PROVIDE KEYWAY AND 8" PVC CENTRE-GRADE STYLE WATERSTOP AT FOUNDATION WALLS, PROVIDE ADDITIONAL 4-15M X 4-0" LG. TOP & BOTTOM AROUND ELEVATOR SUMP PIT.
 - ELEVATOR PIT FOUNDATION WALL CONSTRUCTION: 8" WIDE POURED CONC. FOUNDATION WALL REINFORCED W/ 15M VERTICAL BARS + 8" HOOK TO MAT FOOTING AT 2'-0" O.C. MAX & BY ALL CORNERS AND 15M CONT. TOP BAR HEIGHT OF FOUNDATION WALL TO SUMP ELEVATOR PIT DEPTH TO BE COORDINATED W/ FINAL APPROVED ELEVATOR DRAWINGS.



DESIGN CRITERIA

FLOOR LOADS:
DEAD LOAD = 15 PSF
LIVE LOAD = 40 PSF

ALLOW LIVE LOAD DEFLECTION = L/480

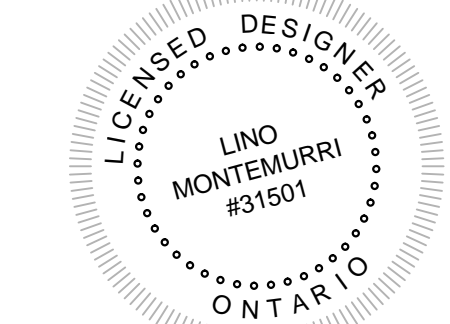
ROOF LOADS:
DEAD LOAD = 10 PSF
LIVE LOAD = 22 PSF

2nd LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"

Drawn By
LM

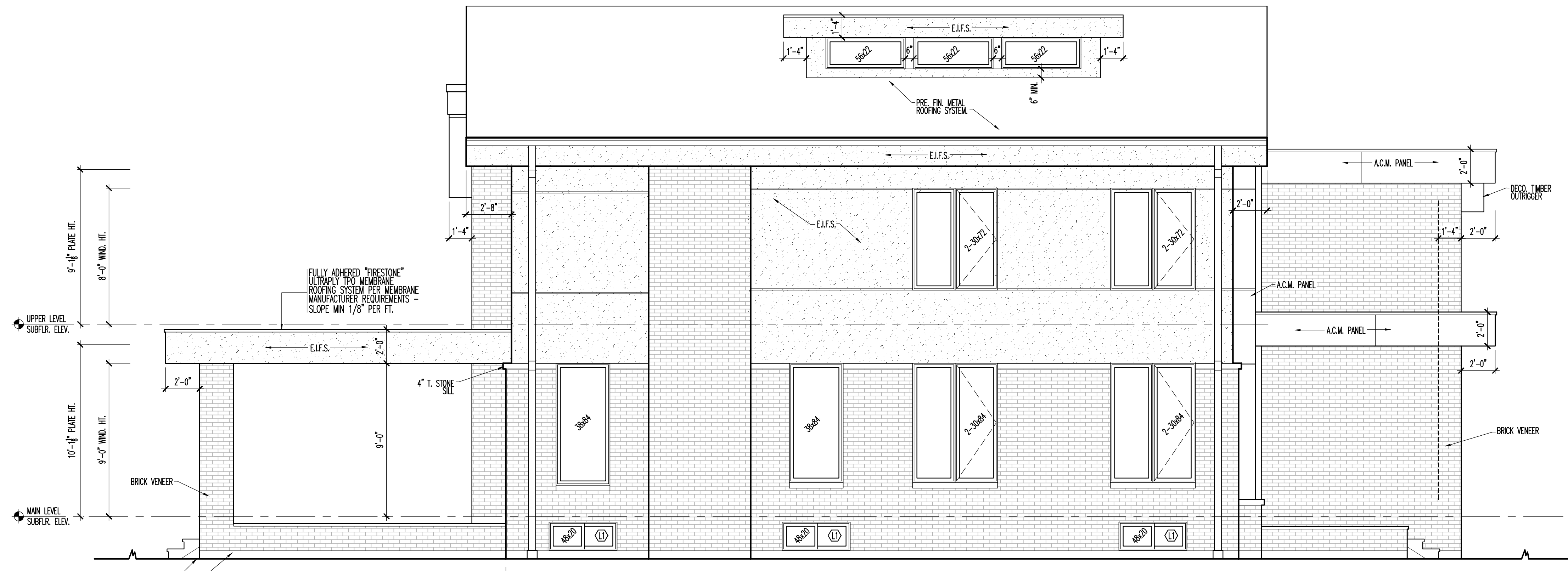
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*** from Montemurri & Associates***

Date
AUGUST 1, 2023: PERMIT



LIMITING DISTANCE (FT)	AREA OF EXPOSING BUILDING FACE (SQ.FT.)	AREA OF GLAZING IN EXPOSING BUILDING FACE (SQ.FT.)	% PROPOSED	% ALLOWED
16'-4"	990	174	17.5	18

WINDOW SIZES CANNOT BE SUBSTITUTED WITHOUT APPROVAL BY MONTEMURRI & ASSOCIATES.

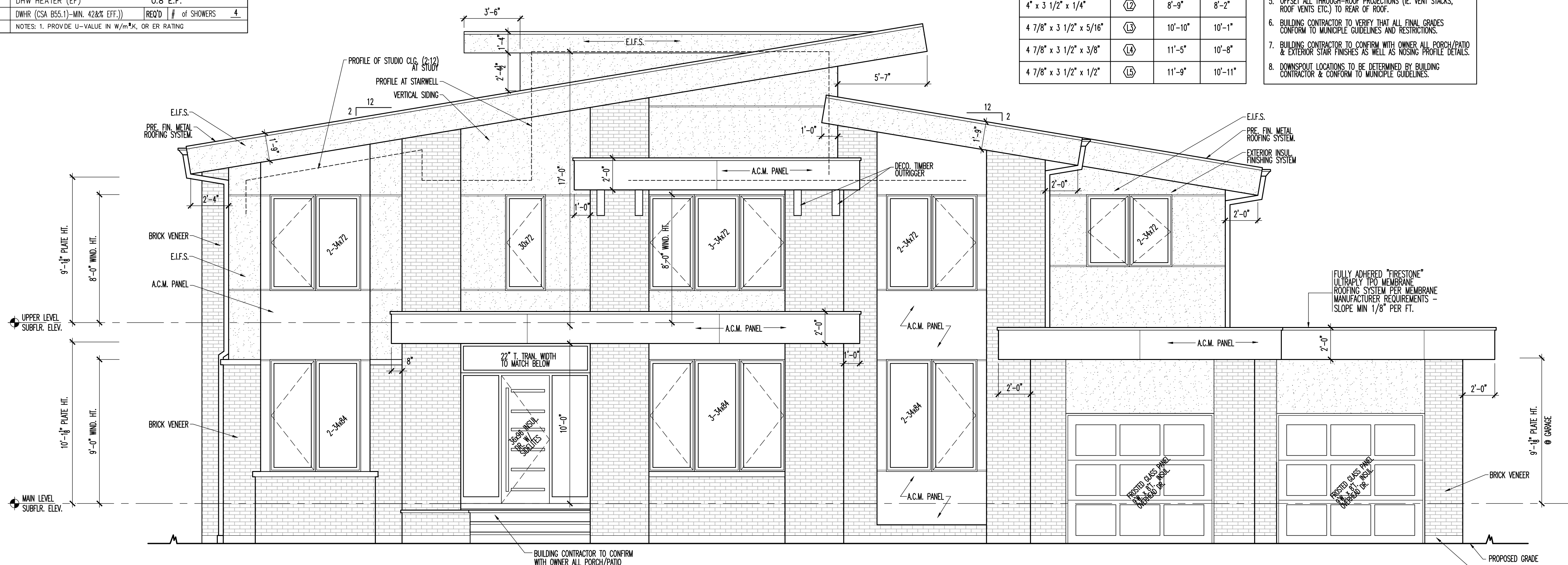
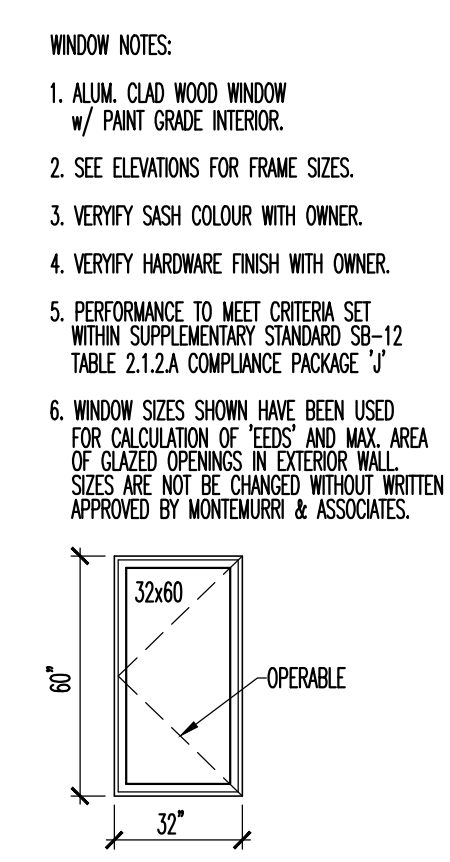
LEFT ELEVATION
SCALE: 1/4" = 1'-0"

B. COMPLIANCE OPTION		PROJECT : DIGHE RESIDENCE	
<input checked="" type="checkbox"/> SB-12 PRESCRIPTIVE [SB-12 - 2.1.1.]	NOTE: SECTIONS CURRENTLY DEPICT SB-12 COMPLIANCE PACKAGE "A1" TABLE 3.1.1.2A	<input checked="" type="checkbox"/> ZONE 1 (< 5000 DEGREE DAYS)	<input checked="" type="checkbox"/> e 92% AFUE
<input type="checkbox"/> SB-12 PERFORMANCE* [SB-12 - 2.1.2.]	* ATTACH ENERGY PERFORMANCE CALCULATIONS USING AN APPROVED SOFTWARE	<input type="checkbox"/> ZONE 2 (e 5000 DEGREE DAYS)	<input type="checkbox"/> e 84% < 92% AFUE
<input type="checkbox"/> ENERGY STAR* [SB-12 - 2.1.3.]	* ATTACH BOP FORM	ENERGYGUIDE 80*	
C. PROJECT DESIGN CONDITIONS		OTHER BUILDING CONDITIONS	
CLIMATE ZONE (SB-12):		SPACE HEATING FUEL SOURCE	
HEATING EQUIPMENT EFFICIENCY:		<input checked="" type="checkbox"/> GAS <input type="checkbox"/> PROPANE <input type="checkbox"/> SOLID FUEL	
WINDOWS+SKYLIGHTS+GLASS DOORS		<input type="checkbox"/> OIL <input type="checkbox"/> ELECTRIC <input type="checkbox"/> EARTH ENERGY	
AREA OF WALLS = 518.5 SQ.M.		<input type="checkbox"/> OF BASEMENT <input type="checkbox"/> WALKOUT BASEMENT <input type="checkbox"/> LOG/POSTBEAM	
AREA OF W, S & G = 94.4 SQ.M.		<input type="checkbox"/> OF ABOVE GRADE <input type="checkbox"/> SLAB ON GROUND <input checked="" type="checkbox"/> AIR CONDITIONING	
D. BUILDING SPECIFICATIONS (PROVIDES VALUES AND RATINGS OF THE ENERGY EFFICIENCY COMPONENTS PROPOSED, OR ATTACH ENERGY STAR BOP FORM)			
BUILDING COMPONENT	RSI / R-VALUES	BUILDING COMPONENT	EFFICIENCY RATINGS
THERMAL INSULATION	R60	WINDOWS & DOORS ¹	U-VALUE 0.28
CEILING WITH ATTIC SPACE	R31	WINDOWS/SLIDING GLASS DOORS	U-VALUE 0.49
CEILING WITHOUT ATTIC SPACE	R31	SKYLIGHTS	U-VALUE 0.49
EXPOSED FLOOR	R20	MECHANICALS	
WALLS ABOVE GRADE	R22	SPACE HEATING EQUIP. ²	96% MIN.
BASEMENT WALLS	R20g	HRV EFFICIENCY (%)	75%
SLAB (ALL > 600mm BELOW GRADE)	R10	DHW HEATER (EF)	0.8 E.F.
SLAB (EDGE ONLY & 600mm BELOW GRADE)	R10	DWHR (CSA B55.1)-MIN. 42&S (EFF.)	REDD F of SHOWERS 4.
SLAB (ALL & 600mm BELOW GRADE, OR HEATED)	R12	NOTES: 1. PROVIDE U-VALUE IN W/M ² K, OR EF RATING	

NOTE: AS PER SB-12 R-VALUES ARE BASED ON MECH. DESIGNER ENVELOP. REQUIRED R-VALUES TO MEET MECH. DESIGNERS SB-12 COMPLIANCE SHALL SUPERCEDE ANY POSTED R-VALUES IN THE EVENT A POSTED R-VALUE IS INSUFFICIENT.

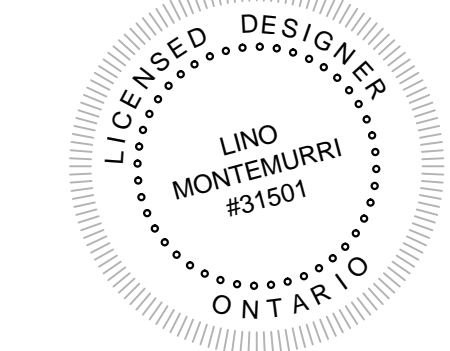
LINTEL SIZE	TAG	MAX. CLEAR SPAN
3 1/2" x 3 1/2" x 1/4"	(L1)	8'-1" 7'-9"
4" x 3 1/2" x 1/4"	(L2)	8'-9" 8'-2"
4 7/8" x 3 1/2" x 5/16"	(L3)	10'-10" 10'-1"
4 7/8" x 3 1/2" x 3/8"	(L4)	11'-5" 10'-8"
4 7/8" x 3 1/2" x 1/2"	(L5)	11'-9" 10'-11"

- ELEVATION NOTES:
1. ALL EXTERIOR ENTRY DOORS TO COMPLY w/ SECTION 9.8.8. OF THE CBC: RESISTANCE TO FORCED ENTRY
 2. DOWNSPUTS TO SLOSH TO DRAIN IN ACCORDANCE WITH APPROVED LOT GRADING PLAN UNLESS HAZARD EXISTS.
 3. ROOF VENTILATION PER O.B.C 9.19.1.2
 4. ROOF TRUSS & FLOOR JOIST MANUFACTURER TO VERIFY ALL POINT LOAD CONDITIONS NOTED AND SIZE ALL SUPPORTING MEMBERS ACCORDINGLY. DESIGNER TO BE NOTIFIED IF PROPOSED STRUCTURAL LAYOUT IS ALTERED.
 5. PERFORMANCE TO MEET CRITERIA SET WITHIN SUPPLEMENTARY STANDARD SB-12 TABLE 2.1.2A COMPLIANCE PACKAGE "J"
 6. WINDOW SIZES SHOWN HAVE BEEN USED FOR CALCULATION OF U-VALUES AND MAX. AREA OF GLAZED OPENINGS IN EXTERIOR WALLS. SIZES ARE NOT TO BE CHANGED WITHOUT WRITTEN APPROVAL BY MONTEMURRI & ASSOCIATES.
 7. BUILDING CONTRACTOR TO VERIFY THAT ALL FINAL GRADES CONFORM TO MANICULE GUIDELINES AND RESTRICTIONS.
 8. BUILDING CONTRACTOR TO CONFIRM WITH OWNER ALL PORCH/PATIO & EXTERIOR STAIR FINISHES AS WELL AS NOSING PROFILE DETAILS.
 9. DOWNSPUT LOCATIONS TO BE DETERMINED BY BUILDING CONTRACTOR & CONFORM TO MANICULE GUIDELINES.



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

Drawn By
LM
Checked By
LM (BCIN: 31501)
Issued:
Montemurri & Associates
Company BCIN : # 33339
August 1, 2023



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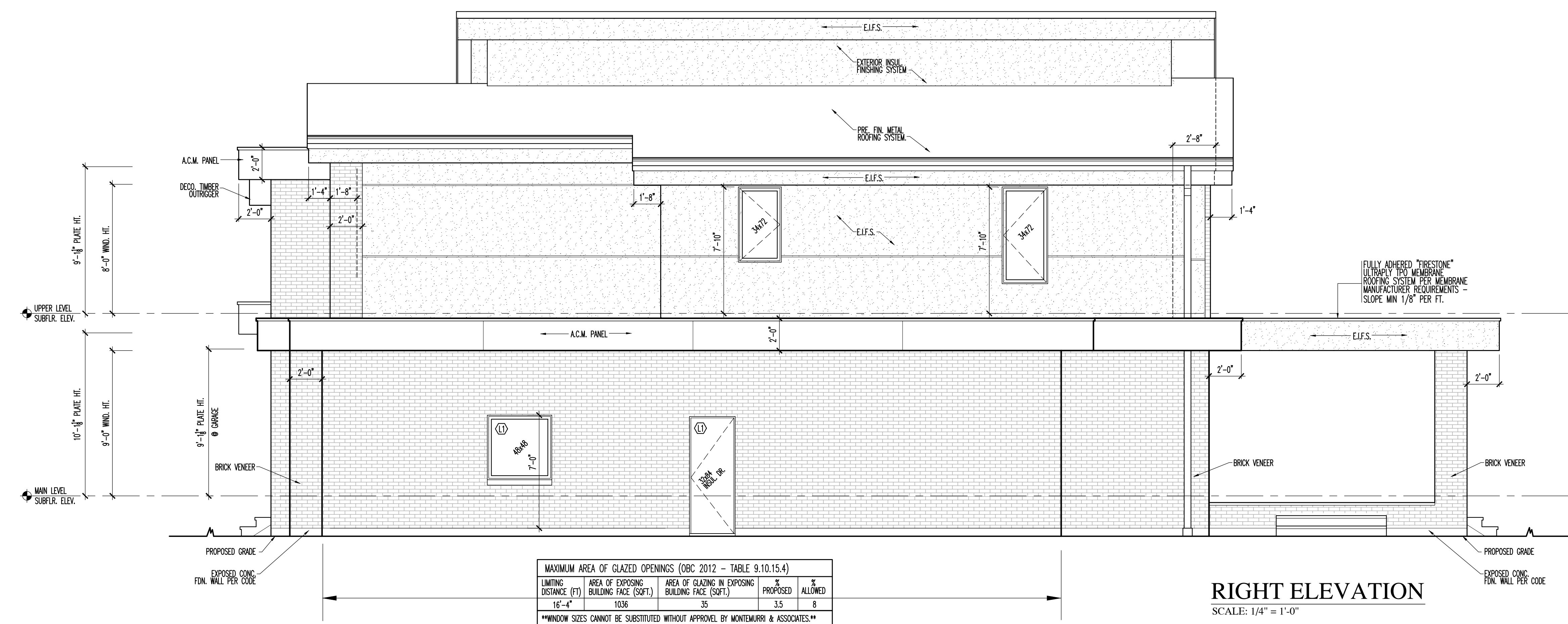
Date
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Project
Drs. Dighe Residence
Windsor, Ontario
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MONTEMURRI & ASSOCIATES authorizes the use of this drawing only for the process necessary to construct the named project. Any other use, for whatever purpose, without written permission from MONTEMURRI & ASSOCIATES is strictly prohibited, and is in violation of COPYRIGHT LAWS and will be subject to civil damages and criminal prosecution.

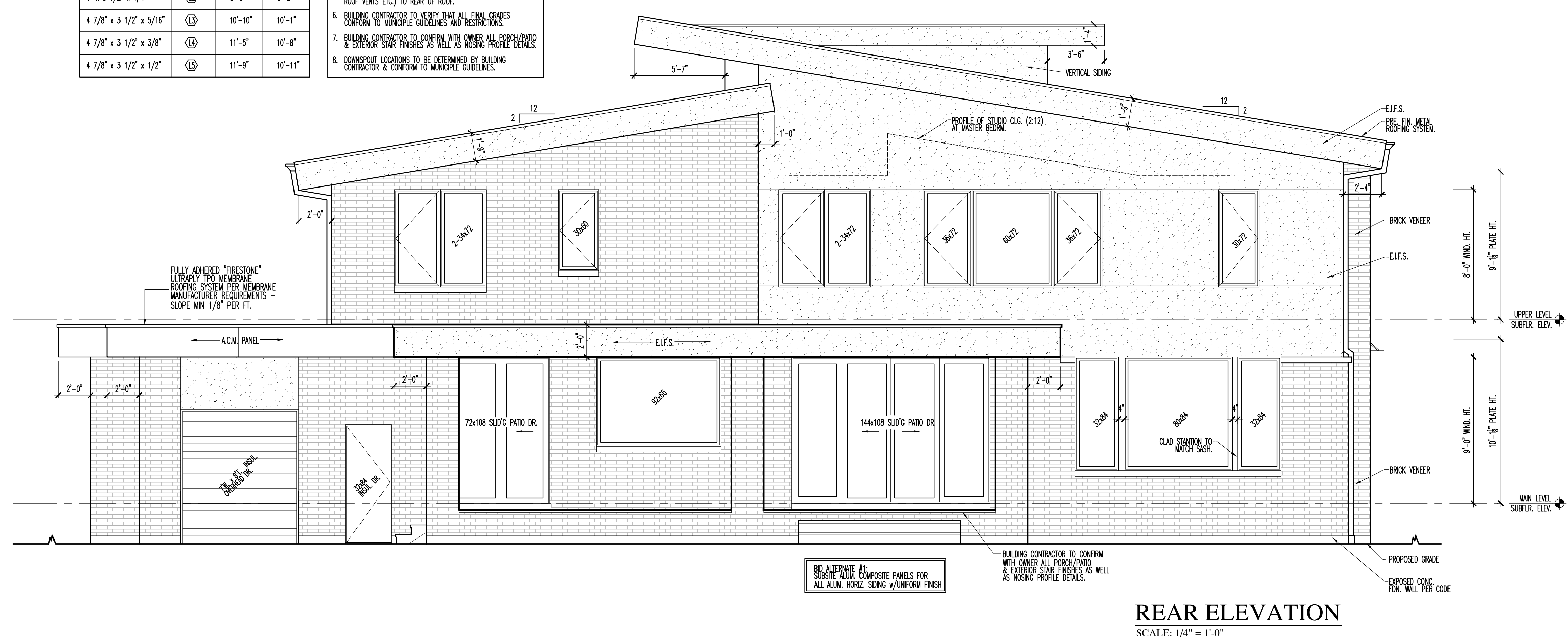
Project No.
108-22

Note:
Engineered shop drawings, for any manufactured component forming part of the building, are engineering and/or architectural drawings and shall be prepared by a registered professional engineer or architect. All drawings are not to be submitted and approved. Montemurri & Associates are not responsible for any associated costs or damages.

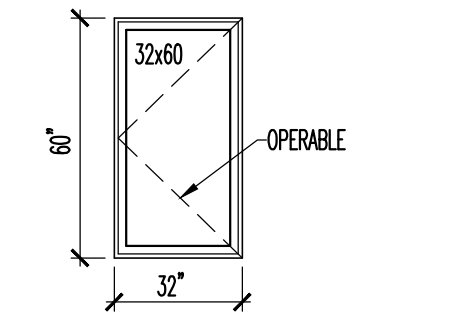


STEEL LINTEL SCHEDULE			
STEEL ANGLE LINTELS FOR MASONRY (Table 9.20.5.2.B)			
LINTEL SIZE	TAG	MAX. CLEAR SPAN	
		3 1/2" BRICK	4" STONE
3 1/2" x 3 1/2" x 1/4"	(1)	8'-1"	7'-9"
4" x 3 1/2" x 1/4"	(2)	8'-9"	8'-2"
4 7/8" x 3 1/2" x 5/16"	(3)	10'-10"	10'-1"
4 7/8" x 3 1/2" x 3/8"	(4)	11'-5"	10'-8"
4 7/8" x 3 1/2" x 1/2"	(5)	11'-9"	10'-11"

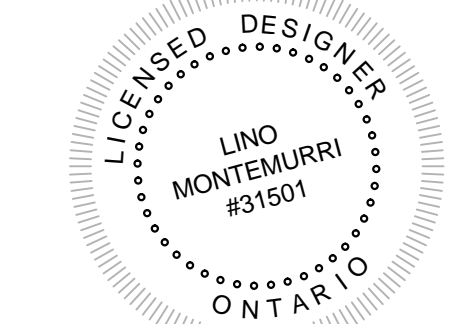
- ELEVATION NOTES:
- ALL EXTERIOR ENTRY DOORS TO COMPLY w/ SECTION 9.6.6. OF THE OBC RESISTANCE TO FORCED ENTRY
 - DOWNSPOUTS TO SPLASH TO GRADE IN ACCORDANCE WITH APPROVED (O) GRADING PLAN UNLESS HAZARD EXISTS.
 - ROOF VENTILATION PER O.B.C 9.19.1.2
 - ROOF TRUSS & FLOOR JOIST MANUFACTURER TO VERIFY ALL POINT LOAD CONDITIONS NOTED AND SIZE ALL SUPPORTING MEMBERS ACCORDINGLY. DESIGNER TO BE NOTIFIED IF PROPOSED STRUCTURAL LAYOUT IS ALTERED.
 - OFFSET ALL THROUGH-ROOF PROJECTIONS (E. VENT STACKS, ROOF VENTS ETC.) TO REAR OF ROOF
 - BUILDING CONTRACTOR TO VERIFY THAT ALL FINAL GRADES CONFORM TO MUNICIPAL GUIDELINES AND RESTRICTIONS.
 - BUILDING CONTRACTOR TO CONFIRM WITH OWNER ALL PORCH/PATIO & EXTERIOR STAR FINISHES AS WELL AS NOSING PROFILE DETAILS.
 - DOWNSPOUT LOCATIONS TO BE DETERMINED BY BUILDING CONTRACTOR & CONFORM TO MUNICIPAL GUIDELINES.



- WINDOW NOTES:
- ALUM. CLAD WOOD WINDOW w/ PAINT GRADE INTERIOR.
 - SEE ELEVATIONS FOR FRAME SIZES.
 - VERIFY SASH COLOUR WITH OWNER.
 - VERIFY HARDWARE FINISH WITH OWNER.
 - PERFORMANCE TO MEET CRITERIA SET WITHIN SUPPLEMENTARY STANDARD SB-12 TABLE 2.1.2A COMPLIANCE PACKAGE "J"
 - WINDOW SIZES SHOWN HAVE BEEN USED FOR CALCULATION OF "TEES" AND MAX. AREA OF GLAZED OPENINGS IN EXTERIOR WALL. SIZES ARE NOT TO BE CHANGED WITHOUT WRITTEN APPROVAL BY MONTEMURRI & ASSOCIATES.

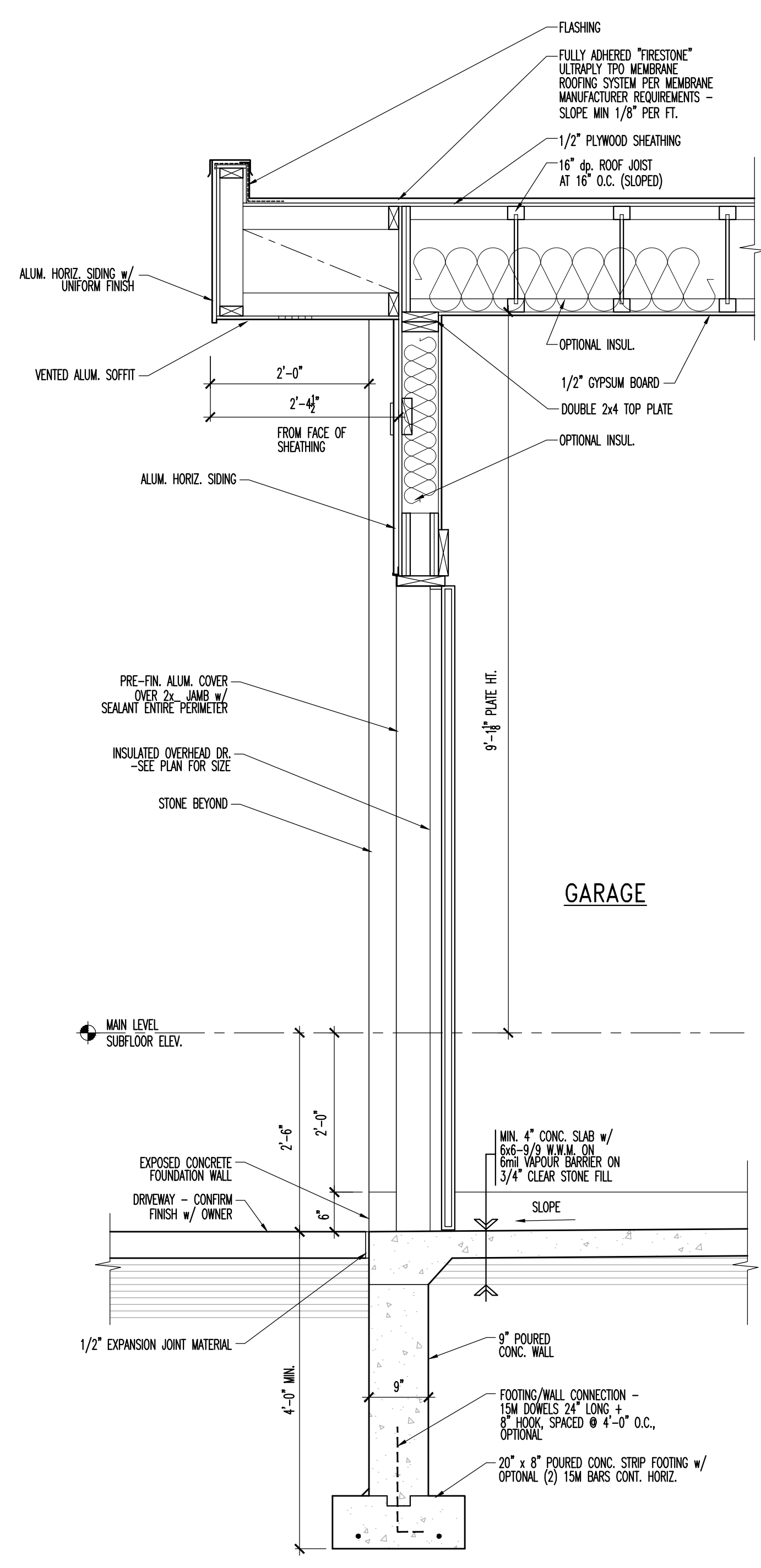


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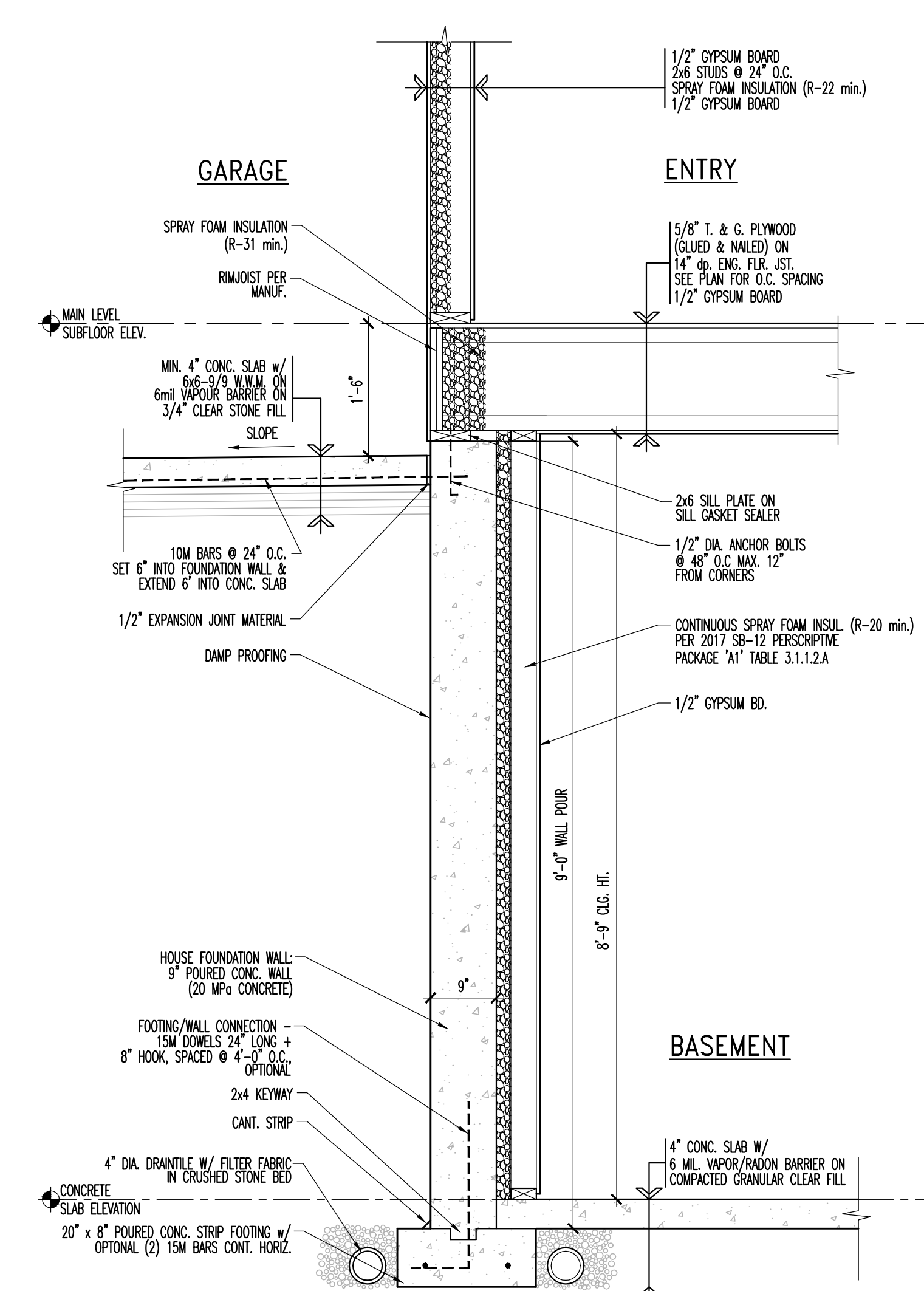


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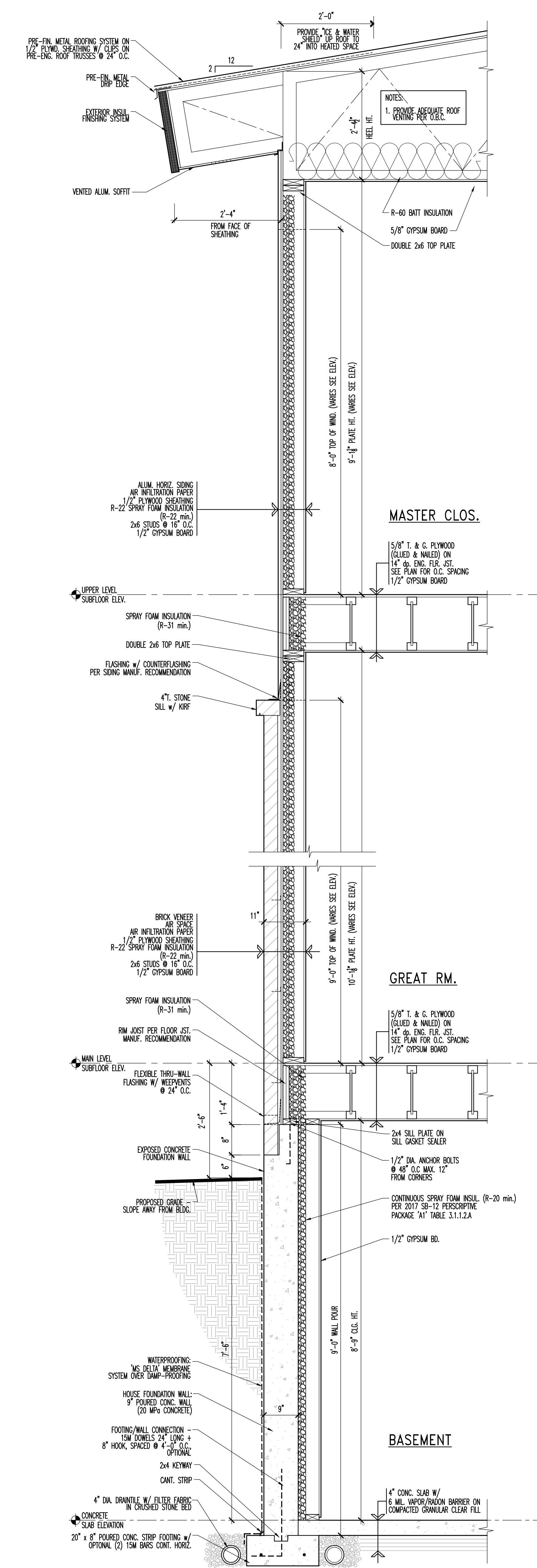
Sheet No.
A-2.02



3 WALL SECTION
A3.01 SCALE: 3/4" = 1'-0"

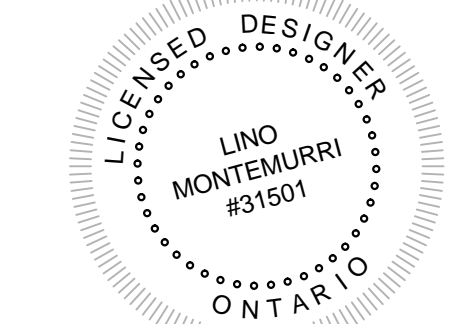


2 WALL SECTION
A3.01 SCALE: 3/4" = 1'-0"



1 WALL SECTION
A3.01 SCALE: 3/4" = 1'-0"

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