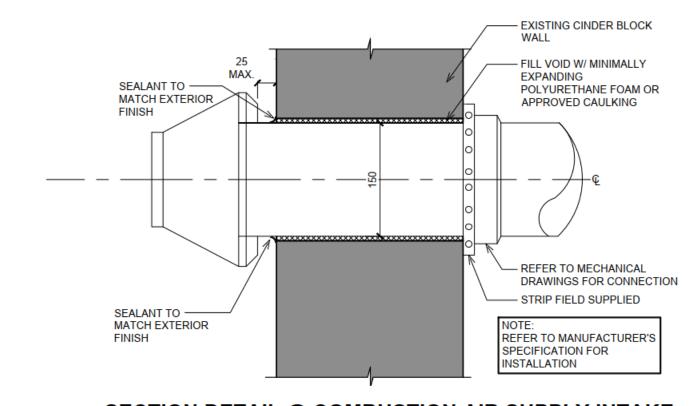


# 1315 LOUGAR AVENUE, SARNIA, ONTARIO

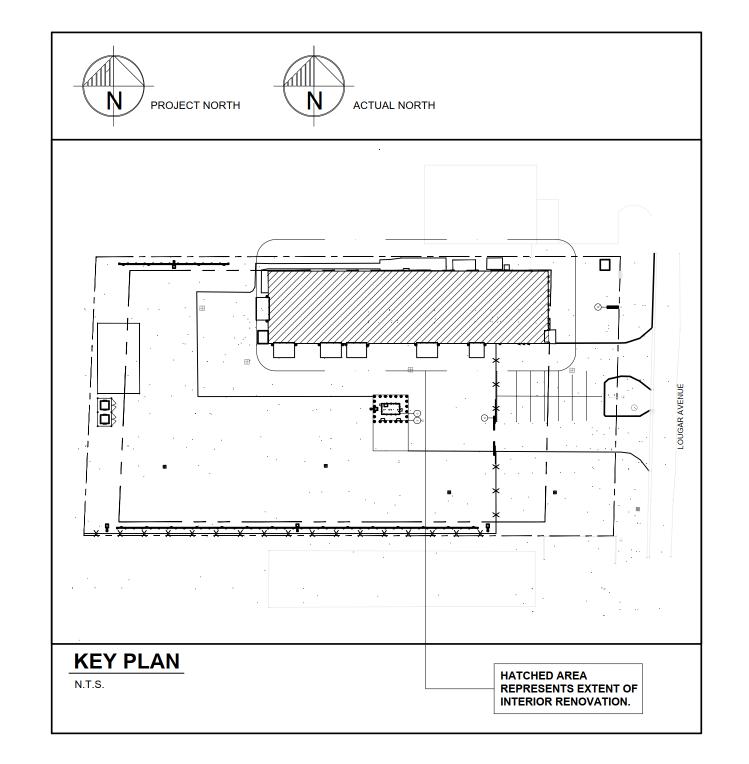
ITEM	2012 ONTA	TRIX	OBC REFERENCE				
1	PROJECT DESCRIPTION		[ ] NEW		[x] PART 11	[ ] PART 3	[]PART9
	1315 LOUGAR AVE SARNIA ON		[ ] ADDIT	TON	11.1 TO 11.4	1.1.2. [A]	1.1.2. [A] & 9.10.1.
	SARINA ON	[ ] CHANGE OF USE	[X] ALTEF	RATION			
2	MAJOR OCCUPANCY(S)	EXISTING BUILDING: G	GROUP F DIVI	SION 2		3.1.2.1 (1)	9.10.2.
3	BUILDING AREA (m²)	EXISTING 953 m²	NEW N/A	TOTAL 95	3 m²	1.4.1.2.[A]	1.4.1.2.[A]
4	AREA OF WORK	EXISTING 1082 m <sup>2</sup>	NEW N/A	TOTAL 10	32 m²	1.4.1.2.[A]	1.4.1.2.[A]
5	NUMBER OF STOREYS	ABOVE GRADE 2 STO	REYS	BELOW GR	ADE N/A	1.4.1.2.[A] & 3.2.1.1.	1.4.1.2.[A] & 9.10.4
6	NUMBER OF STREETS	1				3.2.2.10. & 3.2.5.	9.10.20.
7	BUILDING CLASSIFICATION	3.2.2.72.				3.2.2.20 83.	9.10.2.
8	SPRINKLER SYSTEM	PRINKLER SYSTEM [X] ENTIRE BUILDING (EXISTING) [ ] BASEMENT					9.10.8.2.
		[ ] SELECTED COMP	PARTMENTS	[ ] NOT REQUIRE	ED	3.2.1.5. & 3.2.2.17.	
		[ ] SELECTED FLOO	R AREAS	[ ] EXISTING		INDEX	INDEX
9	STANDPIPE REQUIRED	[ ] YES [ ] NO [X] EXISTING			3.2.9.	N/A	
10	FIRE ALARM REQUIRED		[ ] YES	[ ] NO [X] E	XISTING	3.2.4.	9.10.18.
11	WATER SERVICE/ SUPPLY ADEQUATE	[X] YES [ ] NO				3.2.5.7.	N/A
12	HIGH BUILDING	[ ] YES [X] NO			3.2.6.	N/A	
13	PERMITTED CONSTRUCTION	[ ] COMBUSTIBLE	[ ] NON-C	COMBUSTIBLE [X	[] ВОТН	3.2.2.20 83.	9.10.6.
	ACTUAL CONSTRUCTION	[ ] COMBUSTIBLE	[ ] NON-C	COMBUSTIBLE [X	] ВОТН		
14	MEZZANINE AREA	130 m <sup>2</sup> (EXISTING)				3.2.1.1.(3)-(8)	9.10.4.1.
15	OCCUPANT LOAD	[X] m²/PERSON	[ ] DESIG	N OF BUILDING		3.1.17.	9.9.1.3.
	1ST FLOOR	OCCUPANCY 23 PER	RSONS				
		N/A PUBLIC	23 STAFF	23 TOTAL			
16	BARRIER-FREE DESIGN	[X] YES	[ ] NO (E)	XPLAIN)		3.8.	9.5.2.
17	HAZARDOUS SUBSTANCES	[] YES	[X] NO			3.3.1.2. & 3.3.1.19.	9.10.1.3.(4)
18	REQUIRED FIRE RESISTANCE RATING	HORIZONTAL ASSEMBLIES	FRR (HRS)	LISTED DESIG	N NO. OR SG-2	3.2.2.20 83. & 3.2.1.4.	9.10.8.
	(FRR)	FLOORS 45 MII	NS			J.Z. 1.4.	9.10.9.
		ROOF N/A HR	s				
		MEZZANINE N/A HR	ls				
19	PLUMBING REQUIREMENTS	EMPLOYEES/STAFF (23	PERSONS)				
		REQUIRED PRO	OVIDED				
		2 MALE 4	MALE				
		2 FEMALE 2 F	EMALE	1			

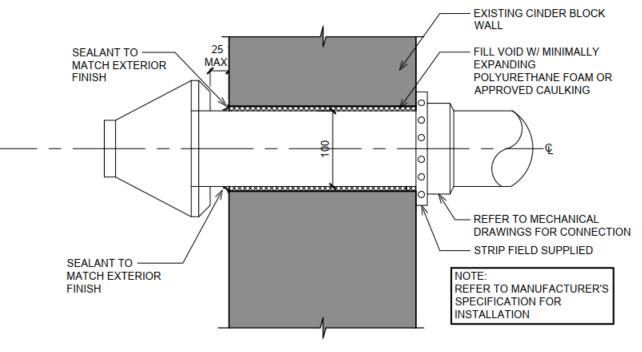


# SECTION DETAIL @ COMBUSTION AIR SUPPLY INTAKE

SCALE:

DOOR SCHEDULE						
Mark	Count	Description	Width	Height	Level	
D1	1	Single Flush Door	915	2134	Proposed Second floor	
D2	1	Single Flush Door	915	2134	Proposed Second floor	
D3	1	Single Flush Door	915	2134	Proposed Main floor	
D4	1	Single Flush Door	915	2134	Proposed Main floor	
D5	1	Shutter Door	4521	4267	Proposed Main floor	
D6	1	Shutter Door	4521	4267	Proposed Main floor	
D7	1	Single Flush Door	915	2134	Proposed Main floor	
D8	1	Single Flush Door	915	2134	Proposed Main floor	

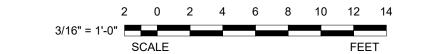




# SECTION DETAIL @ VENT

SCALE: 1:

NOTES JND RIER	- INFILL CINDER BLOCK WALL TO MATCH EXISTING	- 1 LAYER OF 19mm PRESSURE TREATED PLYWOOD - 90mm METAL STUDS @ 400mm O.C 1 LAYER OF 19mm PRESSURE TREATED PLYWOOD		
W2	- 1 LAYER OF FRP, MARLITE, WHITE, FULL HEIGHT (ON LOCKER ROOM SIDE) - 1 LAYER OF 12.5mm DUROCK NEXT GEN CEMENT BOARD FULL HEIGHT - 90mm METAL STUD @400mm O.C SOUND BATTS INSULATION IN BETWEEN METAL STUDS - 1 LAYER OF 12.5mm CEMENT BOARD, FULL HEIGHT	- 1 LAYER OF GALVANIZED LINEAR PANEL UP TO 2438mm AFF (WASH BAY SIDE) - 1 LAYER OF 15.9mm GYPSUM BOARD FULL HEIGHT UP TO UNDERSIDE OF DECK (WASH BAY SIDE) - 10 MIL PVC - 150mm METAL STUDS @ 400mm O.C 1 LAYER OF 19mm PRESSURE TREATED PLYWOOD (ON COMPRESSOR/PRESSURE WASH SIDE)		
W3	- 1 LAYER OF 15.6mm PLYWOOD, UP TO 2438mm (8'-0" AFF) (ON SERVICE BAY SIDE)  - 1 LAYER OF FRP, MARLINE, WHITE, FULL HEIGHT (ON LOCKER ROOM SIDE)  - 1 LAYER OF 12.5mm DUROCK NEXT GEN CEMENT BOARD FULL HEIGHT  - 90mm METAL STUD @400MM O.C.  - SOUND BATTS INSULATION IN BETWEEN METAL STUDS	- 1 LAYER OF 15.6mm PLYWOOD, UP TO 2438mm (8'-0" AFF) (ON SERVICE BAY SIDE) - 1 LAYER OF 12.5mm CEMENT BOARD, FULL HEIGHT - 90mm METAL STUD @400MM O.C 1 LAYER OF 12.5mm GYPSUM WALL BOARD FULL HEIGHT (BREAK ROOM SIDE)		
W4	- 1 LAYER OF 12.5mm GYPSUM WALL BOARD (BREAK ROOM / CIRCULATION SPACE SIDE)  - 1 LAYER OF 12.5mm GYPSUM BOARD FULL HEIGHT - 90mm METAL STUD @400mm O.C 1 LAYER OF 12.5mm GYPSUM BOARD FULL HEIGHT	- 1 LAYER OF 19mm PRESSURE TREATED PLYWOOD 2438mm AFF (SERVICE BAY SIDE) - 1 LAYER OF 15.9mm GYPSUM BOARD FULL HEIGHT UP TO UNDERSIDE OF DECK (WASH BAY SIDE) - 10 MIL PVC - 90mm METAL STUDS @ 400mm O.C 1 LAYER OF 19mm PRESSURE TREATED PLYWOOD (ON COMPRESSOR/PRESSURE WASH SIDE)		
₩5>	- 1 LAYER OF GALVANIZED LINEAR PANEL UP TO 2438mm AFF (WASH BAY SIDE) - 1 LAYER OF 15.9mm GYPSUM BOARD FULL HEIGHT UP TO UNDERSIDE OF DECK (WASH BAY SIDE) - 10 MIL PVC - 150mm METAL STUDS @ 400mm O.C 1 LAYER OF 15.9mm GYPSUM BOARD FULL HEIGHT UP TO UNDERSIDE OF DECK (SERVICE BAY SIDE)	NOTE: 1. G.C TO ENSURE THE FOLLOWING SHOP DRAWINGS ARE SUBMITTED: - LIST OF HARDWARE / DOORS - ROOFING MATERIALS 2. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR MECHANICAL, ELECTRICAL AND STRUCTURAL REQUIRE  GENERAL NOTES:		
	- 1 LAYER OF 15.9mm PLYWOOD TO 2438mm HIGH. FINISH TOP OF WOOD PANELS TO SMOOTH SURFACE. TREAT WITH WATER SEALER AND PAINT	<ol> <li>PROVIDE FIRE CAULKING AT ALL PIPES, CONDUITS, WIRES AND FRAMING PENETRATIONS THROUGH FIRE RATED SEPARATIONS. HIL CANADA FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CANADA 1-800-363-4458. FIRE CAULK TOP &amp; BOTTOM OF FIRE RATED SEPARATION PARTITIONS.</li> <li>FOR STRUCTURE, FRAMING WALL DETAILS, REFER TO STRUCTURAL DRAWINGS.</li> <li>GYPSUM BOARD, PLYWOOD &amp; CEMENT BOARD TO EXTEND TO 100mm ABOVE T-BAR CEILING</li> <li>FINISH WALLS AS PER FINISH SCHEDULE ON SHEET A10.</li> <li>REFER TO MANUFACTURER SPECIFICATIONS FOR ALL INSTALLATION PROCEDURES.</li> <li>** FOR 15.9mm TYPE X GYPSUM BOARD: SHEETROCK® FIRECODE CORE GYPSUM PANELS OR GRAND PRIX® FIRE CODE CORE</li> </ol>		





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	Issued for Comments and Coordinat	ion		
	Issued for Building Permit			
	Issued for Tender			
Issued for Construction				
	As Built Record Set			

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310 CHRISTINA STREET NORTH,

ENGINEERING DONE UPRIGHT.

SARNIA, ONTARIO

not valid unless signed

UNITED RENTALS 1315 LOUGAR AVENUE, SARNIA, ONTARIO

PROJECT

ARCHITECT:						
DWG .TITLE						
CODE M	atrix ani	O WALL TYPES				
DATE:	MAR 2023	SCALE:				
DESIGNED BY :	G. DALE	DRAWING NO :				
DRAWN BY:	UNNATI C.	Δ1				
PROJ .NO	230250	/ \ 1				

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## GENERAL CONDITIONS, CODES AND STANDARDS

ORDINANCES, AND REGULATIONS.

ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES AND BYLAWS. THE OWNER AND/OR CONTRACTOR SHALL INSURE THAT THE CONSTRUCTION

COMPLIES WITH ALL NATIONAL, PROVINCIAL, AND LOCAL STATUES,

PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST VERIFY ALL INFORMATION, DIMENSIONS AND SPECIFICATIONS CONTAINED IN THESE DRAWINGS.

THE ARCHITECT DOES NOT ASSUME LIABILITY FOR ANY ERRORS OR OMISSIONS IN THESE DRAWING LINESS ADVISED IN WRITING OF SLICH ERRORS OR OMISSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. PLEASE ADVISE THE ARCHITECT IF ANY DISCREPANCIES ARE OBSERVED OR EXPLANATIONS ARE REQUIRED.

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DEPARTURE FROM THESE DRAWINGS OR SPECIFICATIONS ADVISED BY ANY OFFICIAL. APPROVING AUTHORITY OR PROFESSIONAL CONSULTANT AT ANY TIME DURING CONSTRUCTION. FURTHER, ANY SUCH DEVIATION OR CHANGES NULLIFIES ANY RESPONSIBILITY THAT THE ARCHITECT MAY HAVE WITH RESPECT TO THESE DRAWINGS OR CONSEQUENT CONSTRUCTION.

THE ARCHITECT IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, OR FOR ANY PROGRAMS OR SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND FOR MAKING ARRANGEMENTS FOR ALL REQUIRED INSPECTIONS.

CONTRACTOR SHALL BE WELL QUALIFIED AND LICENSED CONSTRUCTION LOADS ON THE STRUCTURE CAUSED BY INTERIM STORAGE OF MATERIALS OR USE OF MATERIALS SHALL NOT BE ALLOWED TO EXCEED

ALL WORKMANSHIP SHALL BE A STANDARD EQUAL IN ALL RESPECTS TO GOOD BELOW FROST PENETRATION LEVEL.

BUILDING PRACTICE. ALL WORK SHALL BE INSTALLED BY PERSONS EXPERIENCED IN THE

TRADE THEY ARE PERFORMING. MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND SPECIFICATIONS. PROJECT MEETINGS SHALL BE HELD WHEN DEEMED NECESSARY BY THE OWNER, CONTRACTOR, OR ARCHITECT.

IF THE CONTRACTOR IS UNCERTAIN AS TO THE MEANING, INTENT, DESIRED OUTCOME OF ANY ASPECT OF THE WORK, HE/SHE SHALL OBTAIN CLARIFICATION FROM THE OWNER OR ARCHITECT REFORE PROCEEDING. NOTIFY ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR QUESTIONS OF INTENT OR CLARITY IN THE DOCUMENTS.

IF DURING THE COURSE OF THE WORK UNKNOWN CONDITIONS ARE DISCOVERED WHICH COLIL D NOT BE REASONABLY ASSLIMED TO HAVE BEEN

PRESENT OR ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.

IN THE CASE OF HIGH SNOW LOADS, WIND LOADS, SEISMIC REQUIREMENTS OR UNUSUAL SITE CONDITIONS, NON STANDARD FOUNDATIONS, OR BEAM SIZES BEYOND THE SCOPE OF SPAN TABLES CONTAINED IN PART 9 OF THE ONTARIO BUILDING CODE (CURRENT EDITION), THE OWNER / CONTRACTOR MAY BE REQUIRED TO PROVIDE AT HIS/HER EXPENSE AN ENGINEERS REPORT. PLEASE CONSULT WITH YOUR LOCAL BUILDING AUTHORITIES.

THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO CONTROL DUST AND MINIMIZE DISTURBANCES CAUSED BY THE WORK, & TO CONFINE DUST & DEBRIS TO AREAS AFFECTED BY THE WORK, DEBRIS SHA BE CLEANED AT THE END OF EACH WORK DAY TO PREVENT AN UNSIGHTLY OR HAZARDOUS WORK AREA, AND SHALL BE DEPOSITED IN A SUITABLE CONTAINER. DEBRIS SHALL NOT BE BURIED ON THE SITE. ALL DEBRIS SHALL BE REMOVED FROM THE SITE PERIODICALLY IN ACCORDANCE WITH LOCAL

SMOKING IS STRICTLY PROHIBITED ON THE OWNER'S PREMISES DUE TO INSURANCE REQUIREMENTS.

STORAGE OF MATERIALS & SUPPLIES SHALL CONFORM WITH MANUFACTURERS' REQUIREMENTS; PROVIDE PROTECTION FROM WEATHER, MOISTURE, DUST & DEBRIS AS REQUIRED. COORDINATE LOCATION(S) WITH

PERFORM ALL CUTTING AND PATCHING AS NECESSARY TO INSTALL WORK REQUIRED. NOTIFY THE ARCHITECT PRIOR TO PERFORMING ANY ALTERATION OR MODIFICATION TO ANY STRUCTURAL MEMBER FOR THE DISTRIBUTION OF HVAC. PLUMBING OR ELECTRICAL WORK

SUBSTITUTIONS TO COMPONENTS SPECIFIED ARE NOT ACCEPTABLE, UNLESS ACCEPTED IN WRITING BY OWNER.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE DURING AND AFTER THE WORK IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING. THE CONTRACTOR SHALL USE SHORING, SHEETING, TEMPORARY BRACING, ETC. AS MAY BE REQUIRED TO CARRY THIS OUT.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY AT THE WORK PLACE, AND THAT WORKERS CONDUCT THEMSELVES IN A MANNER. CONSISTENT WITH SAFE CONSTRUCTION PRACTICES & IN ACCORDANCE WITH O.S.H.A. REGULATIONS. INSTALL BARRICADES, ETC. AS REQUIRED TO PREVENT PERSONS FROM ENTERING HAZARDOUS AREAS DURING THE CONSTRUCTION PERIOD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION INVOLVED IN THE JOB. ADEQUATE PROTECTION SHALL BE PROVIDED TO ENSURE THAT BUILT AREAS ARE NOT ADVERSELY AFFECTED BY INCLEMENT WEATHER OR WIND. PROTECT ALL ADJACENT PROPERTY FROM DAMAGE

WINTER PROTECTION, HEAT AND SNOW, SHALL BE THE CONTRACTOR'S RESPONSIBILITY, ALL SPACE HEATING SHALL BE DONE IN A SAFE MANNER. WITH PERIODIC CHECKS ON THE SYSTEM, AND SHALL COMPLY WITH LOCAL AND OSHA REGULATIONS. AS SOON AS THE WALLS AND ROOFS ARE BUILT ENCLOSE THE BUILDING AND FURNISH AND MAINTAIN TEMPORARY HEAT AT A TEMPERATURE OF NOT LESS THAN 45 DEGREES IN ALL PARTS OF THE BUILDING, DURING WORKING HOURS, WHERE ANY TRADE MAY BE WORKING; AND AT ALL TIMES AS REQUIRED TO PROVIDE ALL WORK.

CONTRACTOR SHALL PRESENT THE BUILDING TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR OCCUPANCY, ALL GLASS SHALL BE CLEANED AND POLISHED: FLOORS SWEPT BROOM CLEAN: CARPETS VACUUMED; FIXTURES WASHED, WITH ALL LABELS REMOVED; AND THE EXTERIOR HAND-RAKED FREE OF ALL TRASH AND DEBRIS.

THE CONTRACTOR SHALL GUARANTEE ALL WORK FROM DEFECT FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, OR LONGER AS REQUIRED BY GOVERNING STATUTES.

THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT AUTHORIZATION FROM THE OWNER. FAILURE TO OBTAIN AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR ADDITIONAL COMPENSATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF DRAWINGS TO ALL TRADES UNDER HIS/HER JURISDICTION.

ALL EXISTING DIMENSIONS SHALL BE VERIFIED IN FIELD.

IF CHANGES HAVE BEEN MADE DEPARTING FROM THE PERMIT DOCUMENTS DURING CONSTRUCTION AND THE ARCHITECT'S SERVICES ARE REQUIRED THEN THE ARCHITECT SHALL BE COMPENSATED AT AN HOURLY RATE.

NO PERSON SHALL MAKE A MATERIAL CHANGE OR CAUSE A MATERIAL CHANGE TO BE MADE TO A PLAN. SPECIFICATION, DOCUMENT OR OTHER INFORMATION ON THE BASIS OF WHICH A PERMIT WAS ISSUED WITHOUT NOTIFYING, FILING DETAILS WITH AND OBTAINING THE AUTHORIZATION OF THE CHIEF BUILDING OFFICIAL

THE OWNER / CONTRACTOR IS REQUIRED TO HAVE A PLOT PLAN, LOT GRADING AND DRAINAGE PLAN PREPARED BY A ONTARIO LAND SURVEYOR

THE OWNER / CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT SITTING OF THE BUILDING ON THE PROPERTY AND FOR CONFIRMATION OF ALL REQUIREMENTS FOR SITTING

THE ARCHITECT IS NOT RESPONSIBLE FOR DRAWINGS COMPLYING WITH LOCAL SIDE YARDS AND SETBACKS FOR A SPECIFIC PIECE OF PROPERTY THE ARCHITECT IS NOT RESPONSIBLE FOR CONDITIONS SUCH AS SOIL REARING CAPACITY, DEPTH OF FROST PENETRATION, WATER TABLE OR BURIED STRUCTURES, ETC.

WELLS AND SEPTIC SYSTEMS SHOULD BE LOCATED AND CONSTRUCTED IN ACCORDANCE WITH OBC AND LOCAL HEALTH AUTHORITIES. CONTRACTOR SHALL PERFORM ALL EXCAVATING REQUIRED FOR FOUNDATION, FOOTINGS, AND UTILITIES. FOOTING DEPTHS INDICATED ON DRAWINGS ARE ASSUMED TO BE UPON UNDISTURBED, VIRGIN SOIL WITH A MINIMUM BEARING CAPACITY OF 3,000 P.S.F. ALL FOOTINGS SHALL HAVE A MINIMUM DEPTH OF 4'-0" BELOW GRADE, & SHALL BEAR ON VIRGIN SOIL. UNUSUAL SOILS AND/OR EVIDENCE OF MIGRATION WATERS SHALL BE REPORTED TO A SOILS ENGINEER, CONTRACTOR SHALL VERIFY MINIMUM 3,000 P.S.F. SOIL BEARING CAPACITY.

CONTRACTOR SHALL INVESTIGATE FOR AND VERIFY LOCATIONS OF ANY EXISTING SUB GRADE UTILITIES PRIOR TO COMMENCING EXCAVATING.

BACK FILLING SHALL BE DONE WITH EXTREME CARE. BACK FILLING SHALL BE DONE IN MAXIMUM 1'-0" LIFTS AND TAMPED AS REQUIRED. INSTALL STRUCTURAL FILL UNDER GARAGE SLABS. BACK FILLING MAY COMMENCE ONLY AFTER FOUNDATION WALLS HAVE ACHIEVED THE DESIRED STRENGTH AND ARE PROPERLY BRACED. PROVIDE TRENCH PUMPING IN INCLEMENT WEATHER TO PROTECT BEARING SOILS. EXCESS SOILS SHALL BE REMOVED. FROM THE SITE.

IF ROUGH PLUMBING IS TO BE PROVIDED IN THE BASEMENT, THE OWNER/CONTRACTOR SHALL ENSURE BASEMENT SLAB ELEVATION IS SUCH THAT ADEQUATE SLOPE CAN BE PROVIDED FOR THE WASTE SYSTEMS CONNECTION TO SANITARY SYSTEM.

LAWN AREAS SHALL BE ROUGH GRADED. PROVIDE TOP SOIL AND SOD FOUR FEET FROM FOUNDATION WALL. **FOUNDATIONS** 

CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE BUILDING CODE.

CONTRACTOR SHALL HAVE MINIMUM \$1,000,000 DOLLAR INSURANCE COVERAGE. CONCRETE FOOTINGS & FOUNDATION WALLS SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS - 5% ±1% AIR CONTENT BY VOLUME. CONCRETE GARAGE / CARPORT SLAB SHALL HAVE A COMPRESSIVE STRENGTH OF 3,600 P.S.I. AT 28 DAYS, 5% ±1% AIR CONTENT BY VOLUME, MAXIMUM WATER: CEMENTIOUS RATIO = 0.45 INTERIOR SLABS STRENGTH (4000 PSI)

CONCRETE FOOTINGS SHALL BEAR ON UNDISTURBED, VIRGIN / NATIVE SOIL

FOUNDATION WALLS SHOULD NOT BE BACK FILLED UNTIL CONCRETE OR MASONRY GROUT HAS REACHED ITS SPECIFIED 28 DAY STRENGTH AND STRUCTURAL FLOOR FRAMING INCLUDING PLYWOOD REQUIRED TO STABILIZE THE WALLS, IS COMPLETE, FULLY NAILED AND ANCHORED.

ALL CONCRETE AND MASONRY FOUNDATION WALLS EXCEEDING LIMITS STATED IN SUBSECTION 9.15.4 OF THE NATIONAL BUILDING CODE REQUIRE DESIGN BY A REGISTERED STRUCTURAL ENGINEER.

FLYASH MAY NOT EXCEED 25% OF TOTAL WEIGHT OF CEMENTITOUS MATERIALS. CEMENT CONTENT GREATER THAN OR EQUAL TO FLYASH CONTENT.

GROUT FOR USE UNDER STEEL PLATES SHALL BE CEMENT-BASED, NON-SHRINK, NON-METALLIC GROUT HAVING A MINIMUM 7-DAY STRENGTH OF

ALL FOUNDATION WALLS 24" (600MM) AND HIGHER SHOULD HAVE ONE HORIZONTAL 10M REINFORCING BAR 3" (75MM) FROM THE TOP. CORNER REINFORCING TO BE LAPPED MINIMUM 24" (600MM).

ALL FOOTINGS ARE TO HAVE TWO 15M REINFORCING BARS. THE REINFORCING BARS ARE TO BE PLACED SUCH THAT ONE BAR IS 3" (75MM) CLEAR OF THE SIDE AND BOTTOM OF THE FOOTING ON BOTH SIDES OF THE

PROVIDE ONE 15M REBAR CONTINUOUS ALONG THE TOP OF THE FOUNDATION WALL. PROVIDE 15M REBAR UNDER ALL BEAM POCKETS.

ALL CONCRETE PAD FOOTINGS TO HAVE 3-15M REINFORCING BARS EACH GRADES SHOWN ON ELEVATIONS ARE ESTIMATED. ADJUST ON SITE AS

APPLY ASPHALTIC DAMPPROOFING AND MS DELTA DRAINAGE CELL TO EXTERIOR OF FOUNDATION WALL BELOW FINISHED GRADE LEVEL. STONE TIES: EMBED GALVANIZED METAL DOVETAIL-TYPE SLOTS VERTICALLY

AT 2'-0" O.C. AT FOUNDATION WALLS TO RECEIVE STONE. PROVIDE WATER STOP IN KEY WHERE FOUNDATION WALL MEETS FOOTING.

THE USE OF CALCIUM CHLORIDE ADMIXTURES IS PROHIBITED.

REMOVE FORM WHALERS, & FILL VOIDS WITH CEMENT. VAPOR BARRIER UNDER SLABS TO BE 6 MIL OR 10 MIL POLYETHYLENE. LAP FLOOR SLAB VAPOR BARRIER JOINTS BY A MINIMUM OF 12" AND SEAL THE SEAMS, SEAL EDGES TO FOUNDATION WALLS.

ALL EXPOSED FOUNDATION WALL SHALL BE PARGED.

IF UTILIZING EXISTING FOUNDATIONS CONTRACTOR SHALL EXAMINE EXISTING FOUNDATIONS TO ENSURE STRUCTURAL STABILITY BEFORE PROCEEDING WITH NEW CONSTRUCTION.

IN BASEMENTS WITH STEEL COLUMNS SUPPORTING FLOORS ABOVE POUR CONCRETE SLAB AROUND STEEL COLUMNS BEARING PLATE.

## ABOVE GRADE MASONRY

MASONRY SHALL CONFORM TO SECTION 9:20 OF THE NATIONAL BUILDING CODE AND ALL OTHER APPLICABLE CODES.

IF BRICK VENEER IS TO BE INSTALLED. FLASHING SHALL BE INSTALLED UP 8" (200MM) BEHIND THE BUILDING FELT AND BELOW THE BOTTOM COURSE WITH VERTICAL JOINTS RAKED CLEAN. WEEP HOLES LOCATED AT 24" O.C. AS

INSTALL THRU-WALL FLASHING AND WEEP HOLES AT BASE OF FOUNDATION WINDOW AND DOOR HEADS, AND WHERE ROOFING IS FLASHED TO STONE.

BRICK VENEER TIE SPACING TO BE AT A MAXIMUM HORIZONTAL SPACING OF 16" (400MM) AND A MAXIMUM VERTICAL SPACING OF 24" (600MM) OR A MAXIMUM HORIZONTAL SPACING OF 24" (600MM) AND MAXIMUM VERTICAL SPACING OF 20" (500MM). HORIZONTAL SPACING TO COINCIDE WITH WALL

ALL STEEL LINTELS AND MASONRY SUPPORTS SHALL CONFORM TO SUBSECTION 9.20.5 OF THE NATIONAL BUILDING CODE. OPENINGS LESS OR EQUAL 4'-0 - (1) 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE WITH MIN 4" BEARING EACH END. OPENINGS LESS OR EQUAL 7'-0 - (1) 5" X 3 1/2" X 5/16" STEEL ANGLE WITH MIN 4" BEARING EACH END.

STONE COPINGS, LINTELS, SHALL BE 3-1/2" THICK CUT LIMESTONE, WITH A 1" PROTECTION BEYOND THE STONE VENEER BELOW. SLOPE TOP AT RETAINING WALL FOR POSITIVE DRAINAGE.

## APPLY MASONRY SEALER TO EXTERIOR STONE.

SYNTHETIC STONE TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. MORTAR TYPE AND RATIO PER STONE MANUFACTURERS SPECIFICATION WITH MAXIMUM 1/2 WIDE JOINTS. GROUT JOINTS UTILIZING

WALL TIES SHALL BE CORROSION RESISTANT #9 GAUGE WIRE WITH A HOOK ON THE EXTENDED LEG TO ENGAGE OR ENCLOSE A #9 GAUGE HORIZONTAL JOINT REINFORCEMENT WIRE. JOINT REINFORCEMENT SHALL BE CONTINUOUS WITH BUTT SPLICES BETWEEN TIES PERMITTED. WALL TIES SHALL BE LOCATED TO SUPPORT NO MORE THAN 2 SQUARE FEET OF WALL AREA AND SPACED A MAXIMUM 24" ON CENTER HORIZONTALLY. PROVIDE FLASHING AT DOOR AND WINDOW HEADS. INSTALL WEEPS AT 24" O.C. - TYP

MORTAR AND MASONRY GROUT - MORTAR SHALL BE TYPE "M" OR "S"

ALL STRUCTURAL STEEL TO CONFORM TO THE REQUIREMENTS FOR GRADE 300W STEEL IN CAN/CSA-G40.21-M IN CANADA AND ASTM A36 IN U.S.A.

STRUCTURAL STEEL SHALL BE SHOP PRIMED AND PAINTED WITH RUST

ANCHOR BOLTS AND ALL BOLTS USED FOR STRUCTURAL CONNECTIONS SHALL BE HIGH STRENGTH STEEL, GALVANIZED, NON-CORROSIVE.

ROOF FLASHING TO CONFIRM TO N.B.C. / O.B.C. SUBSECTION 9.26.4

WALL FLASHING TO CONFORM TO N.B.C. / O.B.C. SUBSECTION 9.27.3 MINIMUM RECOMMENDED WEIGHTS AND TYPES OF MATERIALS FOR EXPOSED FLASHING ARE: 1.73 MM SHEET LEAD, 0.33 MM GALVANIZED STEEL 0.46 MM COPPER, 0.46 MM ZINC, 0.48MM ALUMINUM OR 1.02 MM VINYL. ALUMINUM FLASHING SHOULD NOT BE USED TO FLASH MASONRY CHIMNEYS,

FLASH ALL CHANGES OF MATERIALS ON EXTERIOR WALLS. STEEL BEAMS SHALL BE SUPPORTED BY STEEL COLUMNS. STEEL BEARING PLATES SHALL BE WELDED TO THE STEEL BEAM.

FIREPLACES OR CONCRETE TILE.

ALL WOOD FRAME CONSTRUCTION SHALL COMPLY WITH N.B.C. / O.B.C.

ALL GLUE LAMINATED WOOD SHALL BE MANUFACTURED IN ACCORDANCE WITH CAN/CSA-0122-M AND CAN/CSA-0177-M IN CANADA AND ANSI/AITC A190.1 1983 IN U.S.A. OWNER / CONTRACTOR TO OBTAIN ENGINEER'S CERTIFICATE FROM MANUFACTURER OF GLUE LAMINATED MEMBERS. ALL LAMINATED VENEER LUMBER (LVL) BEAMS SHALL BE MARKED WITH THE

APPLICABLE CCMC EVALUATION NUMBER IN CANADA AND NATIONAL EVALUATION REPORT NUMBER IN U.S.A. OWNER / CONTRACTOR TO OBTAIN ENGINEER'S CERTIFICATE FROM SUPPLIER OF LVL MEMBERS. INSTALL PLYWOOD SHEATHING CONTINUOUS FULL HEIGHT, FOUNDATION

WALL TO ROOF; LAP AND SECURE TO FOUNDATION SILL PLATE; LAP OVER RIM JOISTS AT FLOOR LEVELS ;& TERMINATE AT TOP OF PLATES TO RECEIVE JOISTS SHALL BE DOUBLED UNDER ALL PARALLEL PARTITIONS AND AT TUB

JOISTS SHALL BE PLACED TO ACCOMMODATE HEATING AND PLUMBING, ETC. ALL HEADERS SHALL COMPLY WITH SECTION 9.23, O.B.C., N.B.C.

INSTALL METAL JOIST HANGERS AT ALL LOCATIONS WHERE JOISTS DO NOT BEAR ON CONSTRUCTION BELOW PLYWOOD FLOOR SHEATHING SHALL BE GLUED AND NAILED TO THE FLOOR

CAN/CGSB-71.26-M. FLOOR AND ROOF JOIST SPANS OF MORE THAN 7'-0" SHALL BE BRIDGED AT MID SPAN OR AT 6'-0" O.C. MAXIMUM. BRIDGING SHALL BE 2X2 DIAGONAL TYPE WHENEVER POSSIBLE. FLOOR JOISTS OVER UNFINISHED AREAS OR CRAWL SPACES SHALL HAVE 1X4 CONTINUOUS STRAPPING SECURELY NAILED TO THEIR UNDERSIDE NOT MORE THAN 7'-0" FROM EACH SUPPORT OR OTHER ROW OF STRAPPING. THE STRAPPING CAN BE OMITTED WHEN A PANEL TYPE CEILING FINISH IS APPLIED.

JOISTS WITH ELASTOMERIC ADHESIVE (PL-400) COMPLYING WITH

SPIKING AND NAILING NOT INDICATED OR SPECIFIED OTHERWISE SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED NAILING SCHEDULE" CONTAINED IN

INSTALL 1/2" PLYWOOD FILLERS REQUIRED TO MATCH WALL THICKNESS. HEADERS SHALL BEAR UPON JACK STUDS. INSTALL SQUASH BLOCKS AT FLOOR / CEILING CAVITIES AT CONCENTRATED LOAD LOCATIONS. SOLID DOWN TO POST OR BEAM OR FOUNDATION WALL INSTALL BLOCKING AS REQUIRED TO RECEIVE DRYWALL, STAIR RAILS,

WOOD SUPPORT ELEMENTS SHALL BE SEPARATED FROM CONCRETE BY MIN. 0.05mm POLYETHYLENE FILM. MAINTAIN AIR SPACES BETWEEN CHIMNEYS / FIREPLACES AND WOOD

BUILT-INS, SHELVING, ACCESSORIES, ETC.

FRAMING AS REQUIRED BY CODE AND MANUFACTURER RECOMMENDATIONS ALL WOOD FRAMING SHALL BE NO. 2 SPF OR DOUGLAS FIR-LARCH. LUMBER SHALL BE KILN DRIED.

RATED SHEATHING. PLYWOOD WALL SHEATHING SHALL BE 1/2" APA RATED EXTERIOR GRADE PLYWOOD ROOF SHEATHING SHALL BE 1/2" ( EXCEPTION: 3/4" THICK AT

"FLAT" ROOF AREAS) APA RATED EXTERIOR SHEATHING.

PLYWOOD FLOOR SHEATHING SHALL BE 3/4" TONGUE AND GROOVE APA

PLATES ARE TO BE ANCHORED TO CONCRETE WITH 1/2" DIA. ANCHOR BOLTS, MAXIMUM 6'-0" O.C. IF PRESSURE TREATED PLATES ARE USED THEN ANCHOR BOLTS MUST BE NON-CORROSIVE.

SILL PLATES BEARING ON CONCRETE FOUNDATION WALLS SHALL BE PRESSURE TREATED WITH SILL GASKET PROVIDED NON-CORROSIVE ANCHOR BOLTS ARE USED. IF ANCHOR BOLTS ARE NOT NON-CORROSIVE THEN USE STANDARD SPF WITH SILL GASKET

ALL SPANS FOR WOOD JOISTS, RAFTERS, AND BEAMS SHALL CONFORM TO THE SPANS SHOWN IN TABLES A-1 TO A-20 FOR THE UNIFORM LIVE LOADS SHOWN IN THE TABLES (N.B.C. SUBSECTION 9.23.4)

ALL RAFTERS, FLOOR JOIST SHALL BEAR DIRECTLY OVER STUDS, U.O.N. ALL WOOD FRAMING IS TO BE STORED ON SITE ABOVE THE GROUND ON "STICKERS" INDOORS OR UNDER TARPS WITH ADEQUATE CLEARANCES TO

FLUSH FRAMED CONNECTIONS SHALL BE MADE WITH PREFABRICATED

ALLOW AIR CIRCULATION.

GALVANIZED STEEL HANGERS MADE BY SIMPSON STRONG-TIE CO., INC. BUILT-UP MEMBERS OF THREE PLIES OR LESS SHALL HAVE ADJACENT PLIES NAILED TOGETHER WITH TWO ROWS OF NAILS AT 12"O.C. (10D COMMON NAILS FOR 1 1/2" PLIES, 12D COMMON NAILS FOR 1 3/4" PLIES). BUILT-UP MEMBERS OF MORE THAN 3 PLIES SHALL BE ASSEMBLED WITH 1/2" DIAMETER THRU BOLTS AT 16"O.C. STAGGERED UP AND DOWN WITH 2" CLEARANCE AT TOP AND BOTTOM EDGES.

EXTERIOR END WALLS OF CATHEDRAL CEILING SPACES SHALL BE FRAMED WITH STUDS RUNNING CONTINUOUSLY (NOT SPLICED) FROM FLOOR TO ROOF. JOISTS AND RAFTERS SHALL BE SUPPORTED LATERALLY AT EACH SUPPORT BY FULL DEPTH SOLID BLOCKING 2" IN THICKNESS, EXCEPT WHERE JOISTS ARE SUPPORTED BY A FLUSH HEADER OR NAILED TO A RIM JOIST.

PROVIDE A MINIMUM OF TWO STUDS AT EACH END OF ALL FLUSH FRAMED HEADERS OR BEAM, UNLESS MORE ARE INDICATED ON PLAN. PROVIDE ONE JACK STUD AND ONE FULL KING STUD AT EACH END OF ALL DROPPED HEADERS OR BEAMS, UNLESS MORE JACK AND KING STUDS ARE INDICATED ON PLAN. POSTS SHALL BE SOLIDLY BLOCKED THROUGH ALL INTERVENING FRAMED DECKS DOWN TO SUPPORTING GIRDER/BEAMS OR TOP OF

CONNECTIONS IS BASED ON THE LUMBER HAVING A MOISTURE CONTENT AT THE TIME OF INSTALLATION OF 19% OR LESS. JOISTS OR RAFTERS ARE TO BE INSTALLED WITH "CROWN" UP (I.E. POSITIVE

THE DESIGN OF THE DIMENSIONAL LUMBER MEMBERS AND THEIR

CAMBER) AND WITHIN 1/2" OF STRAIGHT, END-TO-END SEVERELY DISTORTED (TWISTED, BOWED, CUPPED, CHECKED, ETC.) LUMBER SHALL NOT BE USED.

NOTCHES IN THE TOP OR BOTTOM OF DIMENSIONED LUMBER JOISTS OR RAFTERS SHALL NOT EXCEED ONE-SIXTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. END NOTCHES SHAL NOT EXCEED ONE-FOURTH THE MEMBER DEPTH. BORED HOLES SHALL NOT BE WITHIN 2" OF THE TOP AND BOTTOM OF THE MEMBER AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE MEMBER DEPTH.

SHEATHING PANELS ON FLAT SURFACES SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR ACROSS TO SUPPORTS AND CONTINUOUS OVER WALL SHEATHING AND FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING

MEMBERS WITH CONSTRUCTION ADHESIVE SUCH AS PL200, LAID IN A

CONTINUOUS 1/4" WIDE BEAD ALONG THE MEMBER LENGTH. ADHESIVES SHALL COMPLY WITH CGSB STANDARD CAN-CGSB 71.26-M88 OR

TRUSS LAYOUT TO BE CONFIRMED BY TRUSS MANUFACTURER PRIOR TO

SITE MEASURE PRIOR TO MANUFACTURING AND INSTALLATION. SUPPLIER TO SUBMIT ERECTION & SHOP DRAWINGS OF TRUSSES FOR REVIEW TO GENERAL CONTRACTOR PRIOR TO STARTING FABRICATION. TRUSSES TO BE ENGINEERED BY TRUSS MANUFACTURER AND INSTALLED

AND BRACED AS PER MANUFACTURER'S INSTRUCTIONS. FLOOR AND ROOF TRUSSES SHALL BE SEALED BY PROFESSIONAL ENGINEER IN ONTARIO.

ALL ROOFING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND CONFORM TO SECTION 9.26 OF THE NATIONAL BUILDING CODE.

## WINDOWS DOORS SKYLIGHTS GLAZING

START OF CONSTRUCTION

WINDOW SIZES SHOWN ON DRAWINGS ARE ONLY ESTIMATED FOR DESIGN PURPOSES. ACTUAL WINDOW SIZES VARY PER MANUFACTURER. DRAWINGS MUST BE REVIEWED WITH WINDOW SUPPLIER PRIOR TO ORDERING. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE WINDOW ROUGH OPENING WITH THE PURCHASED WINDOW SIZE.

OF THE N.B.C. / O.B.C. ALL BATHROOM GLAZING, GLAZING WITH 12" ABOVE A FLOOR SURFACE AND SKYLIGHTS SHALL BE SAFETY GLASS OR TEMPERED GLASS.

GLAZING WEIGHTS SHALL COMPLY WITH SUBSECTION 9.7.3

SHOWER AND BATHTUB GLASS SHALL BE SAFETY GLASS. PATIO DOORS ARE TO BE SAFETY GLASS OR TEMPERED GLASS.

ALL WINDOW AND GLASS DOOR UNITS TO BE INSULATED DOUBLE GLASS UNITS. METAL FRAMES FOR DOORS OR WINDOWS SHALL INCORPORATE A

ALL WINDOWS WITHIN 2.0M (6'-7") OF GRADE TO BE RESISTANT TO FORCED

BEDROOM WINDOWS - EVERY FLOOR LEVEL CONTAINING A BEDROOM SHALL BE PROVIDED WITH AT LEAST 1 WINDOW THAT IS OPERABLE FROM THE INSIDE WITH AN UNOBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA

IF THERE IS A BEDROOM IN A BASEMENT THE SENTENCE ABOVE SHALL APPLY AND THE MAX. SILL HEIGHT OF THE WINDOW SHALL BE 3'-3" ABOVE THE FLOOR.

ALL STAIRS SHALL CONFORM TO SECTION 9.8 STAIRS, RAMPS, HANDRAILS AND GUARDS AND ARTICLE 3.3.1.15

## EIFS (SYNTHETIC STUCCO)

OF 3.8 SF WITH NO DIMENSION LESS THAN 15 INCH.

PROVIDE SENERGY SENTURION III WALL SYSTEM WATER MANAGED, MECHANICALLY ATTACHED CLASS PB EIFS INCORPORATING A PRE-FORMED DRAINAGE MAT AND WEATHER BARRIER INSTALL PER O.B.C. PART 5 AND PER MANUFACTURERS SPECIFICATION

ALL THERMAL INSULATION AND AIR / VAPOUR BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH O.B.C. SECTION 12 RESOURCE CONSERVATION AND

CEILING INSULATION MAY BE LOOSE FILL TYPE OR BATT TYPE.

WALLS AND CEILINGS BETWEEN RESIDENCE AND ATTACHED GARAGE SHALL NONCOMBUSTIBLE INSULATION SHIELDS, WHICH ARE OF SUFFICIENT THICKNESS SO THAT THEY WILL NOT DEFORM DURING INSTALLATION, ARE TO BE INSTALLED AROUND CHIMNEYS AND GAS VENTS TO ENSURE THAT

INSTALL BAFFLES WHERE REQUIRED TO PREVENT CONSTRICTION OF CLEAR

APPROPRIATE CLEARANCES ARE MAINTAINED WHEN INSULATION IS USED IN

AND WINDOW OPENINGS. INSTALL SOUND ATTENUATION ACOUSTICAL BATTS IN FLOOR AND WALL CAVITIES AT BATHROOMS, SHOWER ROOM AND LAV. LOCATIONS AND CAVITIES CONTAINING PLUMBING SUPPLY AND WASTE LINES. INSTALL IN FLOOR AND WALL CAVITIES OF MASTER BEDROOM SUITE: INSTALL IN

INSTALL NON EXPANDING TYPE FOAM INSULATION IN SHIM SPACE AT DOOR

CEILINGS CAVITIES OF REC ROOMS. ALL THE THERMAL INSULATION AND MEASURES TO CONTROL CONDENSATION SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH SECTION 9.25.

AIR / VAPOUR BARRIERS VAPOUR BARRIER SHALL BE 6 MIL POLYETHYLENE AND SHALL CONFORM TO

THE REQUIREMENTS OF CAN/CGSB-51.34-M. 6 MIL VAPOUR BARRIER SHALL BE INSTALLED TO PROTECT THE WARM SIDE OF THE ENTIRE SURFACES OF THERMALLY INSULATED WALL, CEILING AND FLOOR ASSEMBLIES. TAPE ALL SEEMS AND CONTINUE BACKSIDE OF ELECTRICAL DEVICE / TELE / DATA BOXES.

ALL PENETRATIONS OF AIR / VAPOUR BARRIER SUCH AS THOSE CREATED BY THE INSTALLATION OF DOORS, WINDOWS, SKYLIGHTS, ELECTRICAL WIRING, PLUMBING OR DUCTWORK, SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE AIR / VAPOUR BARRIER OVER THE ENTIRE SURFACE.

ALL JOINTS IN THE AIR / VAPOUR BARRIER SHOULD BE SEALED WITH ACOUSTICAL CAULKING OR LAPPED A MINIMUM OF 4" AND CLAMPED BETWEEN FRAMING MEMBERS, BLOCKING AND DRYWALL

AIR BARRIER: INSTALL TYVEK OR TYPAR HOUSE WRAP TO FACE OF EXTERIOR WALL SHEATHING, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. CAULK ALL EXTERIOR JOINTS AT WINDOW AND DOOR FRAMES, JOINTS BETWEEN WALLS AND ROOF / CEILING, OPENING AT UTILITY PENETRATIONS AND OTHER JOINTS WITH A SILICONE LATEX, PAINT ABLE TYPE, CAULK ALL UTILITY OPENINGS THROUGH WALL PLATES, FLOORS, AND CEILINGS AT

AREAS EXPOSED TO AMBIENT. INSTALL MIN 0.15mm (0.006 in) POLYETHYLENE SHEET IN CRAWLSPACES ALONG GROUND SURFACE WITH SHEETS LAPPED MIN. 12"

WITH N.B.C. / O.B.C. SENTENCE 9.22.5.1.(2).

LOCATIONS WITH OWNER

FIREPLACES AND CHIMNEYS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH N.B.C. / O.B.C. SECTION 9.20, 9.21 AND 9.22 AND LOCAL CODES FROM AUTHORITIES HAVING JURISDICTION.

FIREPLACES INCLUDING FACTORY BUILT FIREPLACES SHALL BE PROVIDED WITH A SUPPLY OF EXTERIOR COMBUSTION AIR DEDICATED TO THE FIREPLACE ONLY, IN ACCORDANCE WITH N.B.C. / O.B.C. 9.22.1.4. PROVIDE CAST IRON CLEANOUTS TO ASH PITS FOR ALL MASONRY FIREPLACES.

ALL CHIMNEY FLUES TO COMPLY WITH N.B.C. / O.B.C. SUBSECTION 9.21.2 INCLUDING ARTICLE 9.21.2.5. AND TABLE 9.21.2.5.B. ALL FIREPLACE HEARTHS ARE TO CONFORM TO N.B.C. / O.B.C. SUBSECTION 9.22.5 AND ELEVATED HEARTHS SHOULD BE EXTENDED IN ACCORDANCE

FIREPLACES SHALL BE INSTALLED BY CERTIFIED INSTALLER WITH EXPERTISE.

ALL MUNICIPAL BY-LAWS. AN INSPECTION IS REQUIRED OF ALL PLUMBING SANITARY / STORM SEWER CONNECTIONS AND SYSTEMS, BUILDING DRAINS AND / OR ROUGHED-IN PLUMBING UNDER TEST. ALL UNDERGROUND PIPING TO BE INSPECTED PRIOR TO BACKFILL INSTALL WATER AND GAS SERVICES AS REQUIRED; COORDINATE METER

ALL PLUMBING SHALL CONFORM TO PART 7 OF THE OBC AND

WATER SUPPLIES SHALL BE COPPER INSTALL 1" SERVICE 1" MAIN

OR 3/4" (AS REQUIRED) AT FIXTURE LOCATIONS. PROVIDE SHUTOFF VALVES LOCATED AT EACH FIXTURE. INSTALL FOAM RUBBER GROMMETS WHERE PLUMBING SUPPLY AND WASTE LINES PENETRATE WOOD FRAMING. ALL APPLIANCES TO BE INSTALLED PER MANUFACTURERS INSTRUCTION.

DISTRIBUTION TO LINES FEEDING BATH AND SHOWER, TRANSITION TO 1/2\*

FLOOR FINISHES, BATHROOM VANITIES, BATH SPLASH, KITCHEN CABINETS, AND FIREPLACE FACINGS, ETC. TO MEET SPECIFICATIONS OF OWNER. APPROVED LOCKING MEDICINE CABINET TO BE INSTALLED IN AT LEAST ONE BATHROOM. ALL CLOSETS SHALL HAVE ONE SHELF AND ONE ROD. LINEN CLOSETS SHALI

DRYWALL / GYPSUM WALL BOARD SHALL BE 1/2" ON 16" O.C. SPACING AND 5/8" ON 24" O.C. SPACING. TAPE AND FINISH WITH THREE COATS TO A LEVEL

INSTALL MOISTURE RESISTANT DRYWALL AT BATHROOM FIXTURE LOCATIONS. DRYWALL INSTALLATION SHALL BE WITH SCREWS PER

MANUFACTURER'S SPECIFICATION. INSTALL 1/2" FIBERGLASS-REINFORCED CEMENT BOARDS (WONDER BOARD OR EQUAL) TO SHOWER COMPARTMENT WALLS AND CEILING TO RECEIVE TII

ADDITIONAL 1/4" (6MM) PLYWOOD UNDERLAY SHALL BE PROVIDED UNDER RESILIENT FLOORING INSTALLATIONS. ADDITIONAL 1/2" (12MM) PLYWOOD UNDERLAY SHALL BE PROVIDED UNDER

PRIMER AND PAINT SHALL BE SHERWIN WILLIAMS OR APPROVED EQUAL. APPLY PER MANUFACTURER'S SPECIFICATION.

METAL DOORS TO RECEIVE TWO COATS OF OIL BASE ENAMEL. COLORS BY OWNER / ARCHITECT

FURNISH OWNER WITH EXTRA PAINT FOR FUTURE SERVICE. PROVIDE THREE (3) HINGES ON ALL SWING DOORS. IF DOORS ARE SOLID CORE PROVIDE COMMERCIAL GRADE HINGES.

# VENTILATION

CERAMIC TILE INSTALLATIONS

VENTILATION OF CRAWL SPACES SHALL CONFORM TO N.B.C. / O.B.C. SECTION 9.18 MINIMUM 0.1M2 (1.1 S.F.) OF UNOBSTRUCTED VENT AREA FOR EVERY 50M2 (538 S.E.) OF FLOOR AREA VENTS SHALL BE SCREENED AND LOUVERED AND SHALL BE UNIFORMLY DISTRIBUTED ON OPPOSITE SIDES OF THE CRAWLSPACE.

HEATED CRAWL SPACES SHALL BE VENTILATED IN ACCORDANCE WITH SECTION 9.32

VENTILATION OF ROOF SPACES SHALL CONFORM TO N.B.C. / O.B.C. SECTION 9.19. ROOF SPACES OR ATTICS OVER INSULATED CEILING FOR ROOFS WITH A SLOPE OF 2/12 OR GREATER SHALL BE VENTILATED WITH 1 S.F. OF UNOBSTRUCTED VENT AREA FOR EVERY 300 S.F. OF INSULATED CEILING AREA. FOR ROOFS WITH A SLOPE OF LESS THAN 2/12 OR THOSE CONSTRUCTED WITH BOOF JOISTS THE LINORSTRUCTED VENT AREA SHALL BE NOT LESS THAN 1 S.F. FOR EVERY 150 S.F. OF INSULATED CEILING AREA.

## ALL ROOF SPACES SHALL BE VENTILATED WITH SOFFIT, ROOF, OR GABLE VENTS OR A COMBINATION OF THESE, EQUALLY DISTRIBUTED BETWEEN THE TOP OF THE ROOF SPACE AND SOFFITS.

23-5/8" SHALL BE PROVIDED FROM ACCESS DOOR TO EQUIPMENT AND FOR A DISTANCE OF 2'-11" ON THE SIDE OR SIDES OF EQUIPMENT, PLUMBING, ACCESS OPENING OF NOT LESS THAN 500mm (19-3/4" BY 700mm (2'4") SHALL

IN CRAWLSPACES ACCESS WAY WITH HEIGHT AND WIDTH NOT LESS THAN

BE PROVIDED TO EACH CRAWL SPACE WHERE THE CRAWL SPACE SERVES A SINGLE DWELLING UNIT. VENTILATION OF CRAWL SPACES SHALL CONFORM TO N.B.C. / O.B.C. SECTION 9.18 MINIMUM 0.1M2 (1.1 S.F.) OF UNOBSTRUCTED VENT AREA FOR EVERY 50M2 (538 S.F.) OF FLOOR AREA. VENTS SHALL BE SCREENED AND

LOUVERED AND SHALL BE UNIFORMLY DISTRIBUTED ON OPPOSITE SIDES OF

ALL EXTERIOR DOORS SHALL CONFORM TO SUBSECTION 9.6.5. ALL GLASS IN DOORS, SIDELIGHTS AND WINDOWS WITHIN 3'-0" (915 MM) OF

DOOR LOCKS SHALL CONFORM TO SUBSECTION 9.6.6. ALL EXTERIOR DOOR HARDWARE SHALL CONFORM TO SUBSECTION 9.6.8.

ALL EXTERIOR WINDOWS WITHIN 6'-6" (2.0M) OF ADJACENT GROUND SHALL

# SKYLIGHTS SHALL CONFORM TO SUBSECTION 9.7.7.

OWNER / CONTRACTOR SHALL PROVIDE TO THE BUILDING DEPARTMENT A HEAT LOSS CALCULATION AND DUCT DESIGN PREPARED BY A CERTIFIED

INSTALLATION OF HEATING SYSTEM SHALL COMPLY WITH MANUFACTURERS DIRECTIONS WHERE APPLICABLE AND CONFORM WITH LOCAL CODES AND REGULATIONS. MECHANICAL VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH N.B.( / O.B.C. SECTION 9.32

INSTALL DUCTWORK FROM LAUNDRY DRYER LOCATION THROUGH ROOF OR WALL TO EXTERIOR, INCLUDE DAMPERS. EXPOSED DAMPERS SHALL BE PAINTED TO MATCH EXTERIOR SIDING.

INSTALL DUCTWORK FROM EXHAUST FAN AT BATHROOMS AND ATTIC SPACE

## ALL PIPE VENTING TO OCCUR ON BACKSIDE ROOF. NO VENTING TO BE SEEN FROM FRONT ELEVATION.

THE CRAWLSPACE.

INSTALLATION OF ELECTRICAL ITEMS MUST COMPLY WITH LOCAL ELECTRICAL CODES AND REGULATIONS AND WITH LOCAL ELECTRICAL

POWER REQUIREMENTS IN ALL RESPECTS ELECTRICAL SHALL COMPLY WITH SECTION 9:34 (ELECTRICAL FACILITIES) OF THE ONTARIO BUILDING CODE.

ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION

DESIGN. WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CODES BY LICENSED CONTRACTORS. AND SHALL BE INSPECTED BY LOCAL AUTHORITIES. MATERIALS AND EXECUTION SHALL CONFORM TO MANUFACTURERS' PRINTED INSTRUCTION. CONTRACTOR AND ELECTRICAL SUB TRADE SHALL PERFORM A WALK-

THROUGH WITH THE OWNER TO DETERMINE PREFERRED LOCATION OF OUTLETS, SWITCHES, LIGHT FIXTURES, TELEPHONE, DATA AND ALL OTHER INSTALL ALL WIRING AND DEVICES AS REQUIRED BY CODE AND AS REQUIRE TO ACCOMMODATE INDICATED APPLIANCES AND EQUIPMENT. SUPPLY AND INSTALL EXHAUST FANS IN EACH BATHROOM AND ATTIC SPACE

INSTALL HARDWIRED SMOKE / FIRE DETECTORS, AND CO2 DETECTORS ON ALL FLOORS AS REQUIRED PER CODE INSTALL 3-WAY SWITCHES AT SPACES WITH MULTIPLE ENTRANCES. OUTLETS, SWITCHES, PLATES, ETC. SHALL BE "DECORA" STYLE

## PROVIDE DOOR BELL AT FRONT DOOR. PROVIDE LIGHTING AT ALL ENTRANCES PER O.B.C. 9.34.2.1

THE VISUAL SIGNALLING COMPONENT REQUIRED NEED NOT

(A) BE INTEGRATED WITH THE SMOKE ALARM PROVIDED IT IS

THROUGHOUT, COLOR BY OWNER.

AND SIGNALING CODE".

COORDINATE WITH OWNER'S SECURITY SYSTEM PROVIDER

SMOKE ALARMS CONFORMING TO CAN/ULC-\$531, "SMOKE ALARMS", SHALL BE INSTALLED IN EACH DWELLING UNIT AND IN EACH SLEEPING ROOM NOT WITHIN A DWELLING UNIT & SHALL HAVE A VISUAL SIGNALLING COMPONEN CONFORMING TO THE REQUIREMENTS IN THE O.B.C. SECTION 18.5.3. (LIGH) COLOR AND PULSE CHARACTERISTICS) OF NFPA 72, "NATIONAL FIRE ALARM

INTERCONNECTED TO IT. (B) BE ON BATTERY BACKUP, OR 446 (C) HAVE SYNCHRONIZED FLASH RATES, WHEN INSTALLED IN A DWELLING UNIT THE LUMINOUS INTENSITY FOR VISUAL SIGNALLING COMPONENTS THAT ARE INSTALLED IN SLEEPING ROOMS SHALL BE A MINIMUM OF 175 CD

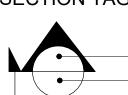
SMOKE ALARMS SHALL BE INSTALLED ON OR NEAR THE CEILING.

# PLANS, SECTIONS AND LEVATIONS

**ELEVATION TAG** 



SECTION TAG



-SECTION NAME SHEET ELE. SHOWN SECTION CUT DIR

**DETAILS TAG** 



DOOR TYPE TAG

WINDOW TYPE TAG

WALL TYPE TAG

SPOT ELEVATION

-GRID CODE

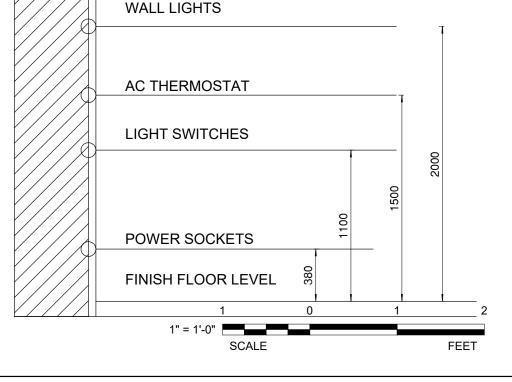
-BUILDING NAME

ROOM NAME ROOM NAME NUMBER TAG

UP	UP DIRECTION
DN	DOWN DIRECTIOIN
MM	MILLIMETER
M	METER
G00	ROOM
THK	THICK
SSL	STRUCTURAL SLAB LEVEL
FFL	FINISH FLOOR LEVEL
WWL	WALKWAY FINISH LEVEL
RFL	ROOF FINISHING LEVEL
TOA	TOP OF ASPULTE
T.O.P	TOP OF PARAPET
T.O.S	TOP OF SLAB
LP	LOW POINT
FR	FIRE RATE
AC	ACOUSTIC
L00	LINTEL

## **MOUNTING HEIGHTS**

**DOOR MARK** 





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	Issued for Building Permit				
	Issued for Tender				
	Issued for Construction			_	
	As Built Record Set			_	

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THE CONTRACTOR SHALL CHECK AND VERIFY ALL

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CONSULTING ENGINEERS

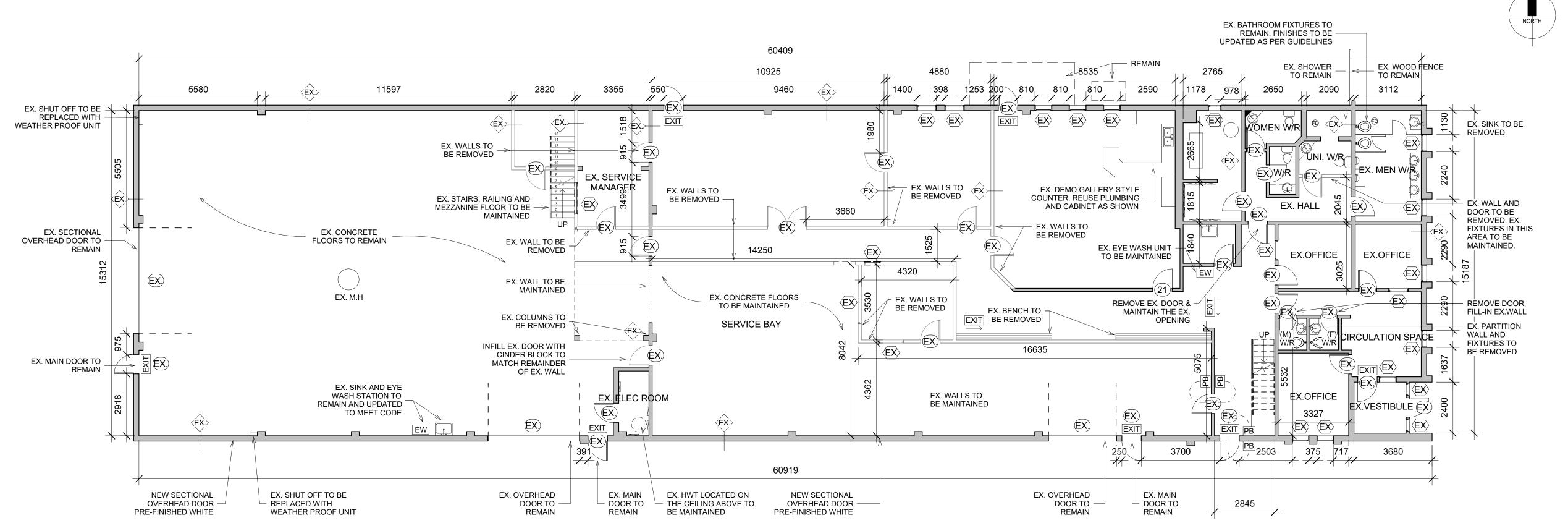
**PROJECT UNITED RENTALS** 

GENERAL NOTES MAR 2023 | SCALE : As indicated G. DALE DRAWING NO: UNNATI C.

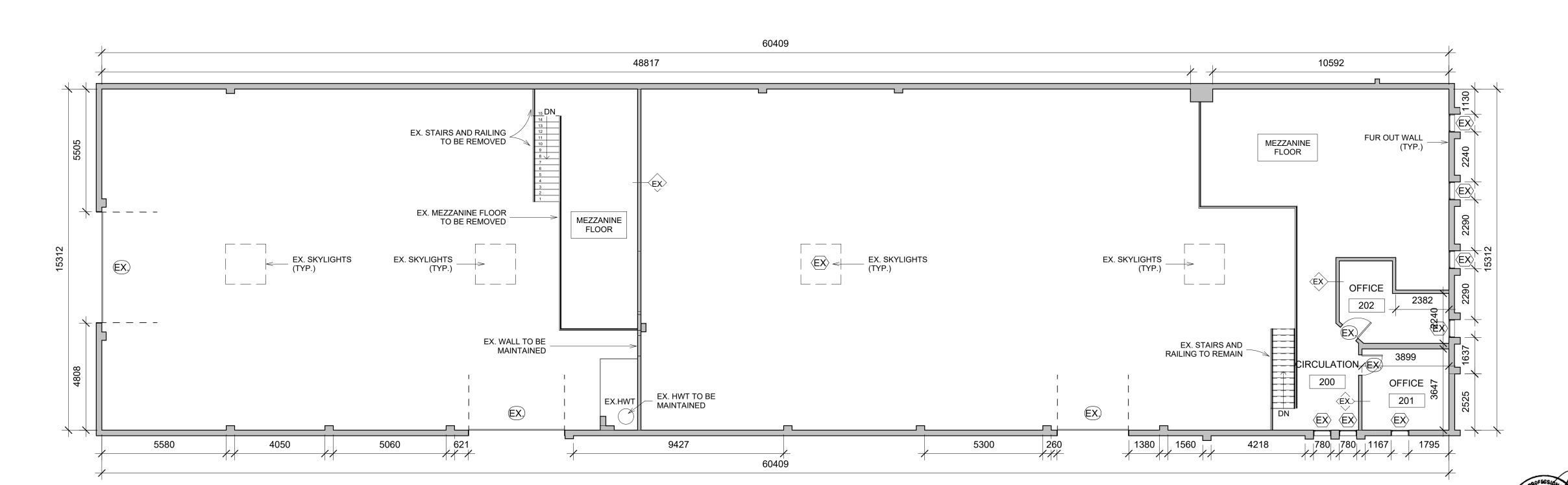
SARNIA, ONTARIO

1315 LOUGAR AVENUE.

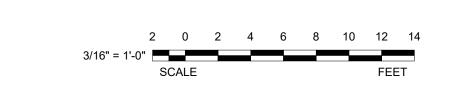
**DESIGNED BY:** DRAWN BY PROJ .NO



First Floor - Demolition plan



Second Floor - Demo. plan



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	Preliminary Design	
	Issued for Comments and Coordinat	tion
	Issued for Building Permit	
	Issued for Tender	
	Issued for Construction	
	As Built Record Set	

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310 CHRISTINA STREET NORTH,

SARNIA, ONTARIO

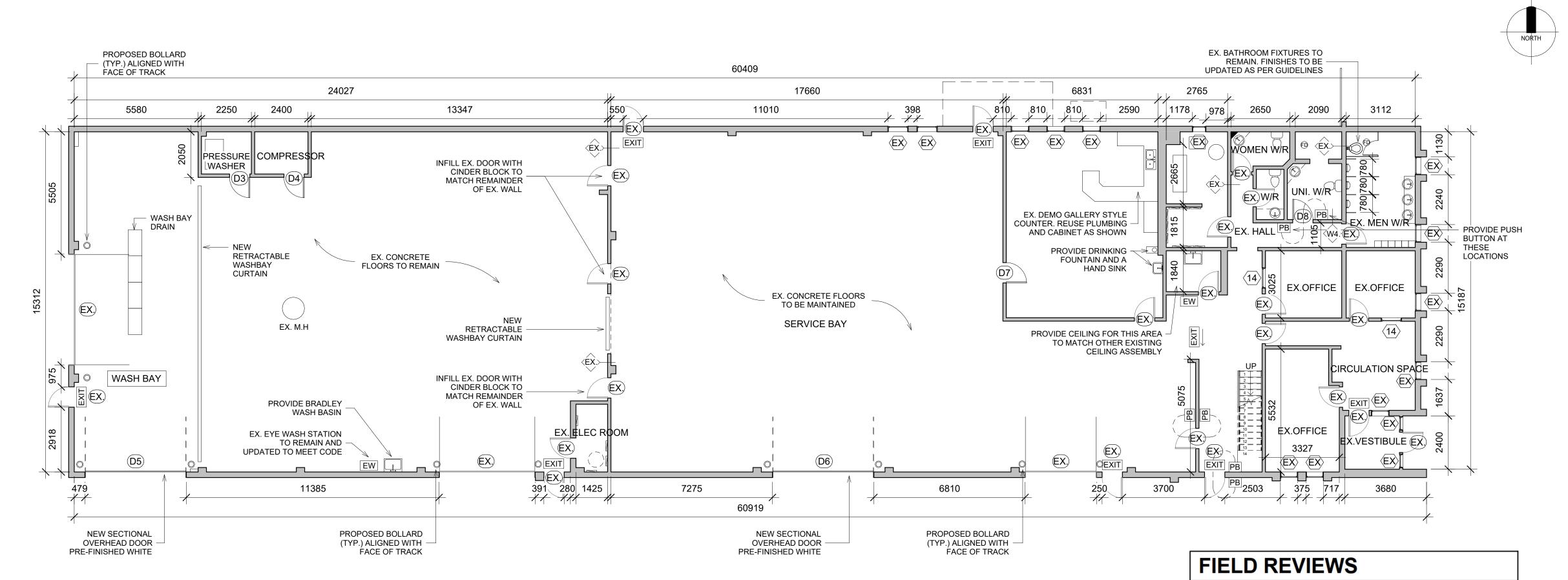
ENGINEERING DONE UPRIGHT.

not valid unless signed

PROJECT

UNITED RENTALS 1315 LOUGAR AVENUE, SARNIA, ONTARIO

	ARCHITECT:						
	DWG .TITLE						
	DEMOLITION FLOOR PLANS						
	DATE:	MAR 2023	SCALE: 1:100				
	DESIGNED BY :	G. DALE	DRAWING NO :				
	DRAWN BY:	UNNATI C.	A3				
	PROJ .NO	230250	, 10				



60409 48817 10592 MEZZANINE FLOOR FUR OUT WALL (TYP.) EX. SKYLIGHTS (TYP.) EX. SKYLIGHTS EX. SKYLIGHTS EX. SKYLIGHTS EX. EX. STAIRS AND RAILING TO REMAIN CIRCULATION/EX PROVIDE RAILING FOR

- SAFETY AS PER OBC 200 GUIDELINES 201 EX. **D6** EX. 780 780 1167 1795 5580 4050 5060 9427 5300 1380 1560 60409

# Proposed Second floor

Proposed Main floor

# **GENERAL NOTES**

- I. G.C TO ASSUME RESPONSIBILITY FOR SAFE AND LEGAL DISPOSAL OF ALL WASTE MATERIALS GENERATED UNDER THIS CONTRACT.
- G.C TO ASSUME RESPONSIBILITY FOR ALL FEES LEVIED RELATED TO WASTE DISPOSAL.

LOAD OF 7 (TO CONFORM	HEDULE IS APPLICAE PSF. CHART APPLIC AS PER LOCAL PRO E IF ANY DISCREPAN	ABLE TO INTERIOR VINCIAL AND MUNI	R WALÉS AND PART	TITIONS ONLY	
			S <sup>-</sup>	TUD SPACI	NG
STUD	FLANGE	LIP	12" O.C	16" O.C	24" O.C
3 <del>5</del> "	1 ½"	3 <u>"</u> 16"	N	AX STUD H	IT.
	362S125-33		15'-3 <sup>5</sup> / <sub>8</sub> "	13'-10 <sup>3</sup> / <sub>4</sub> "	12'-2 <sup>3</sup> / <sub>8</sub> "
	362S125-43		16'-8 <sup>3</sup> / <sub>8</sub> "	15'-2 <sup>3</sup> / <sub>8</sub> "	13'-3 <sup>5</sup> / <sub>8</sub> "
3 <del>5</del> "	1 <del>5</del> "	<u>1</u> "			
	362S162-33		16'-10 <sup>3</sup> / <sub>4</sub> "	15'-3 <sup>5</sup> "	13'-4 <sup>3</sup> / <sub>4</sub> "
	362S162-43		18'-4 <sup>3</sup> / <sub>4</sub> "	16'-8 <sup>3</sup> "	14'-7 <sup>1</sup> / <sub>4</sub> "
6"	1 ½"	3." 16"		•	
	600S125-33	'	22'-8 <sup>3</sup> / <sub>8</sub> "	20'-7 1/4"	18'-0"
	600S125-43		25'-0"	22'-8 3"	19'-10 <sup>3</sup> / <sub>4</sub> "
	600S125-54		26'-9 <sup>5</sup> / <sub>8</sub> "	24'-4 <sup>3</sup> "	21'-3 <sup>5</sup> / <sub>8</sub> "
6"	1 5"	<u>1</u> "			
	600S162-33		25'-0"	22'-8 <sup>3</sup> / <sub>8</sub> "	19'-9 5"
	600S162-43		27'-2 <sup>3</sup> / <sub>8</sub> "	24'-8 <sup>3</sup> / <sub>8</sub> "	21'-8 <sup>3</sup> / <sub>8</sub> "
	600S162-54		29'-2 <sup>3</sup> / <sub>8</sub> "	26'-7 <sup>1</sup> / <sub>4</sub> "	23'-2 <sup>3</sup> / <sub>8</sub> "
6"	2"	5"			
	600S200-33		26'-1 <sup>1</sup> / <sub>4</sub> "	23'-8 <sup>3</sup> / <sub>8</sub> "	20'-8 <sup>3</sup> / <sub>8</sub> "
	600S200-43		28'-7 1/4"	26'-0"	22'-8 <sup>3</sup> / <sub>8</sub> "
	600S200-54		30'-8 <sup>3</sup> / <sub>8</sub> "	27'-10 <sup>3</sup> "	24'-4 <sup>3</sup> / <sub>4</sub> "
8"	1 <sup>5</sup> / <sub>8</sub> "	1" 2			
	800S162-43		33'-10 <sup>3</sup> "	30'-9 5"	26'-10 <sup>3</sup> / <sub>4</sub> "
	800S162-54		36'-6"	33'-1 <sup>1</sup> / <sub>4</sub> "	29'-0"
	800S162-68		39'-6"	35'-10 <sup>3</sup> / <sub>4</sub> "	31'-3 5"
0"	Oll	5 <sub>m</sub>			

38'-7  $\frac{1}{4}$ " 35'-0" 30'-7  $\frac{1}{4}$ " 41'-4  $\frac{3}{4}$ " 37'-7  $\frac{1}{4}$ " 32'-10  $\frac{3}{4}$ "

TYPICAL METAL STUD SCHEDULE

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Rev	Description	Date		
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	Issued for Information Only			
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310 CHRISTINA STREET NORTH,

SARNIA, ONTARIO

ENGINEERING DONE UPRIGHT

not valid unless signed

PROJECT

PLEASE CONTACT ARCHITECT FOR MID-TERM FIELD REVIEW ONCE BATT INSULATION,

PLEASE CONTACT ARCHITECT FOR SUBSTANTIAL PERFORMANCE FIELD REVIEW ONCE

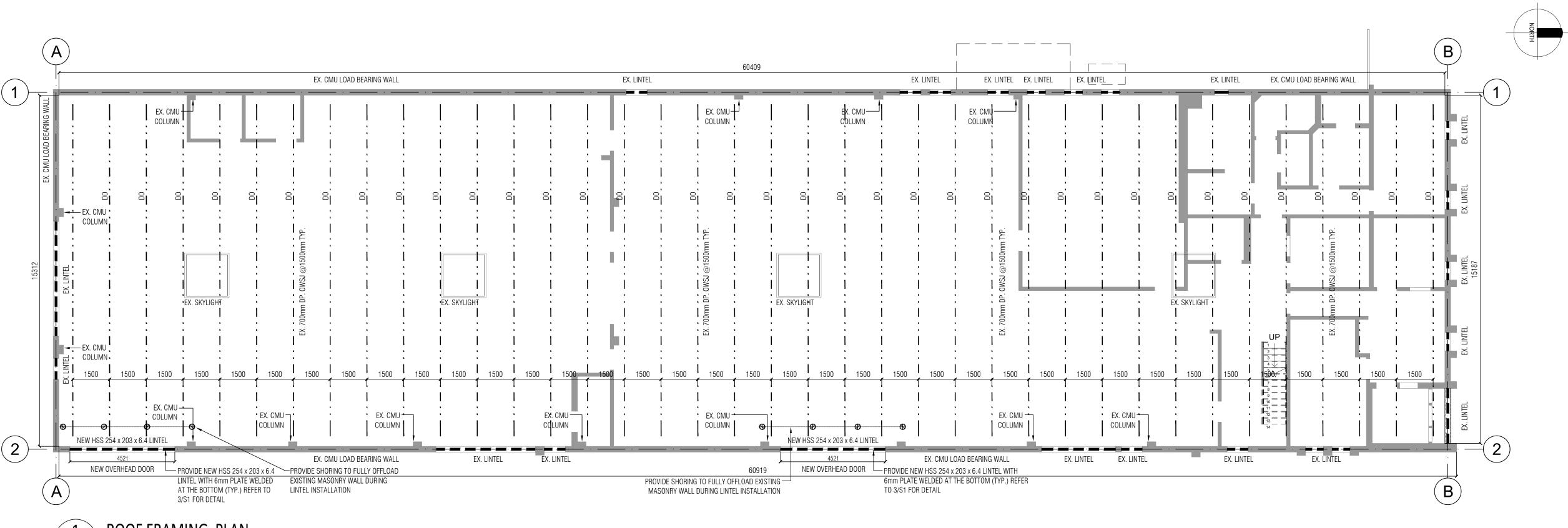
SCALE

CONSTRUCTION IS COMPLETED, PRIOR TO UNITED RENTALS. TURNOVER DAY.

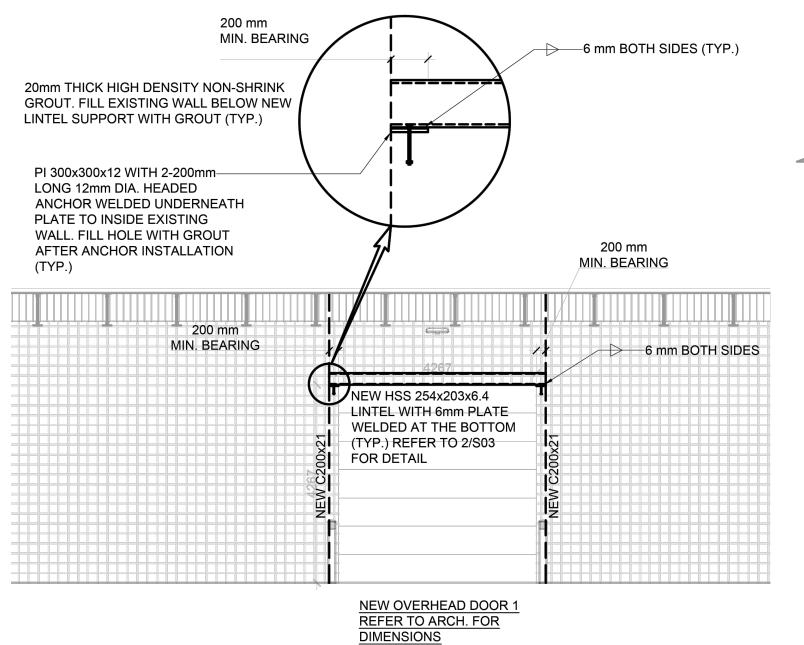
CONTINUOUS INSULATION & VAPOUR BARRIER IS INSTALLED.

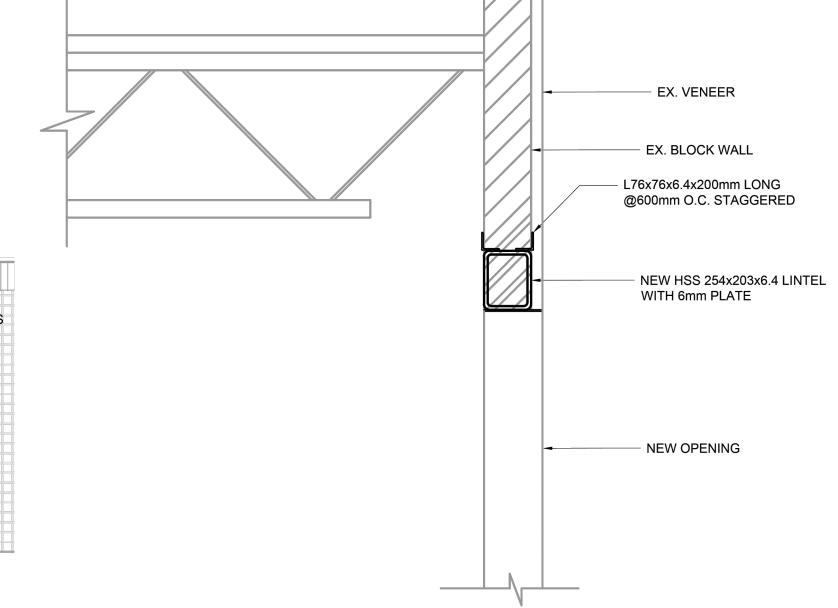
UNITED RENTALS 1315 LOUGAR AVENUE, SARNIA, ONTARIO

ARCHITECT:		
DWG .TITLE		
PROF	POSED FLO	OOR PLANS
DATE:	MAR 2023	SCALE: 1:100
DESIGNED BY:	G. DALE	DRAWING NO :
DRAWN BY:	UNNATI C.	A4
PROJ .NO	230250	, <b>, , , ,</b>



# ROOF FRAMING PLAN SCALE: 1:100





# SCALE: 1:75

# SECTION THRU OPENING

# OVER ALL OPENINGS IN MASONRY WALLS PROVIDE THE FOLLOWING LINTELS, UNLESS OTHERWISE SHOWN.

SCALE: 1:75

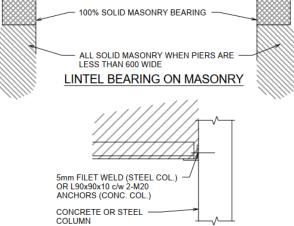
DI 0.014						DIVICK W	
BLOCK WYTHES						FOR EACH 100mi	
STEEL LINTELS	S					CLEAR SPAN	
CLEAR SPAN mm (ft-in)	140 (6") WALL	190 (8") WALL	240 (10") WALL	290 (12") WALL		mm (ft-in)	
UP TO 1200 (4'-0)	2 - L64x64x6.4	2 - L89x89x7.9	L89x89x7.9 + L127x 89 x 7.9 LLV	3 - L89x89x7.9		UP TO 1200 (4'-0)	
1201 TO 1800 (4'-0 TO 6'-0)	2 - L89x64x6.4 LLV	2 - L127x89x7.9 LLV	L127x89x7.9 LLV + L127x127x7.9	3 - L127x89x7.9 LLV		1201 TO 1800 (4'-0 TO 6'-0)	
1801 TO 2400 (6'-0 TO 8'-0)	2 - L89x64x7.9 LLV	2 - L127x89x9.5 LLV	L127x89x9.5 LLV + L127x127x9.5	3 - L127x89x9.5 LLV		1801 TO 2400	
2401 TO 3000 (8'-0 TO 10'-0)	2 - L89x64x9.5 LLV	2 - L152x89x9.5 LLV	L152x89x9.5 LLV + L127x127x9.5	3 - L152x89x9.5 LLV		(6'-0 TO 8'-0)	

**LINTELS** 

# **BRICK WYTHES**

**ELEVATION ON GRIDLINE** 

FOR EACH 100mm (4") LENGTH OF WALL		
CLEAR SPAN mm (ft-in)	SIZE	
UP TO 1200 (4'-0)	L 89 x 89 x 7.9	
1201 TO 1800 (4'-0 TO 6'-0)	L 127 x 89 x 7.9 (LLV)	
1801 TO 2400 (6'-0 TO 8'-0)	L 152 x 89 x 7.9 (LLV)	



LINTEL BEARING ON COLUMN

# ROOF FRAMING PLAN

- 1. ROOF DESIGN LOAD ALLOWANCE:
  - SNOW LOAD: - 1.28 kPa
- 2. READ STRUCTURAL DRAWINGS TOGETHER WITH ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS FOR DETAIL DIMENSIONS, LOCATIONS OF DOOR AND WINDOW OPENINGS, DUCT WORK, RECESSES, INSERTS AND OTHER ITEMS. IN THE EVENT OF DISCREPANCIES BETWEEN DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL BE
- 3. INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE FOLLOWING DRAWING:
- SITE SURVEY 4. WELDING SHALL BE PERFORMED BY A FABRICATOR FULLY CERTIFIED TO CSA W47 AND IN ACCORD WITH THE APPLICABLE CSA WELDING CODES. FINISHED WORK SHALL BE INSPECTED AND APPROVED BY AN INDEPENDENT WELDING INSPECTOR OR RETAINED AND PAID BY THE GENERAL CONTRACTOR.

## **GENERAL NOTES**

- 1. READ STRUCTURAL DRAWINGS TOGETHER WITH ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS FOR DETAIL DIMENSIONS, LOCATIONS OF DOOR AND WINDOW OPENINGS, DUCT WORK, RECESSES, INSERTS AND OTHER ITEMS. IN THE EVENT OF DISCREPANCIES BETWEEN DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- 2. VERIFY ALL DIMENSIONS AND EXAMINE SITE CONDITIONS PRIOR TO FABRICATION OF ALL
- 3. FOR CONDITIONS NOT EXPLICITLY KNOWN, CONTRACTOR SHALL IMMEDIATELY REQUEST CLARIFICATIONS FROM THE STRUCTURAL ENGINEER.
- 4. ALL CONNECTION DETAILS TO THE EXISTING BUILDING SHOWN ON THESE DRAWINGS ARE REQUIRE MODIFIED OR ALTERNATE DETAILS TO BE ISSUED BY STRUCTURAL ENGINEER. FOR CONDITIONS NOT EXPLICITLY SHOWN, DETAILS TO BE SIMILAR TO THOSE SHOWN ON THE
- 5. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST ALL FORCES INCLUDING FORCES SUCH AS WIND, SEISMIC AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCE.
- 6. OBSERVE AND ENFORCE ALL CONSTRUCTION SAFETY MEASURES REQUIRED BY THE LOCAL CODE. EMPLOY A QUALIFIED PROFESSIONAL SPECIALTY ENGINEER FOR THE DESIGN OF ALL FALSEWORK AND TEMPORARY SUPPORT OF ALL STRUCTURAL ELEMENTS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT NO PART OF THE WORK IS SUBJECTED TO A LOAD WHICH WILL ENDANGER THE SAFETY OF THE BUILDING OR WORKERS. USE TEMPORARY BRACING WHERE NECESSARY TO SUPPORT ALL LOADS TO WHICH STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND CONSTRUCTION
- 7. THE CONTRACTOR IS RESPONSIBLE FOR LABOR, MATERIALS & EQUIPMENT FOR THE EXECUTION AND QUALITY CONTROL OF THE WORK SHOWN IN THE CONTRACT DOCUMENTS, INCLUDING ALL WORK OF SUB-CONTRACTORS. FIELD REVIEWS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR THE PROPER PERFORMANCE OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY ERRORS AND/OR OMISSIONS IN THE WORK SHALL BE REPORTED TO THE ENGINEER FOR REVIEW.

# SITE INSPECTION REPORTS & TESTING

- THE ONTARIO BUILDING CODE 2012 SPECIFIES THAT GENERAL FIELD REVIEWS OF THE BUILDING BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE START OF CONSTRUCTION TO FACILITATE SUCH REVIEWS BY THE STRUCTURAL ENGINEER.
- 2. THIRD PARTY INSPECTION AND TESTING REPORTS ARE TO BE SUPPLIED TO THE STRUCTURAL ENGINEER BY THE GENERAL CONTRACTOR FOR THE FOLLOWING: A) WELDING REPORTS
- 3. THE FOLLOWING FIELD REVIEWS ARE CONSIDERED TO BE THE MINIMUM NUMBER OF STRUCTURAL FIELD REVIEWS REQUIRED FOR THIS PROJECT: EXISTING STRUCTURE: SUPPORTS & FRAMING SHALL BE REVIEWED PRIOR TO NEW
- CONSTRUCTION LOADS ARE APPLIED. 4. FIELD REVIEWS PROVIDE A MINIMUM OF 3 BUSINESS DAY NOTICE TO THE ENGINEER FOR ROUTINE FIELD REVIEWS. THE CONTRACTOR IS RESPONSIBLE FOR PRE-INSPECTING THE WORK AND CONFIRM COMPLETENESS PRIOR TO THE FIELD REVIEW BY THE ENGINEER.
- 5. IF THE ENGINEER IS NOT PROVIDED WITH THE OPPORTUNITY TO PERFORM THE REQUIRED FIELD REVIEWS, FINAL CERTIFICATION OF THE PROJECT WILL NOT BE ISSUED.

## STRUCTURAL STEEL

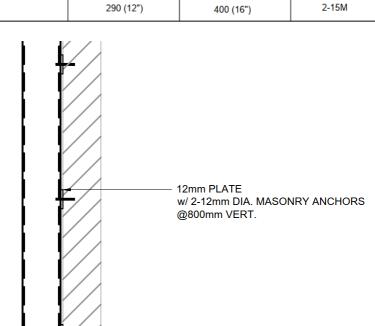
- 1. STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING:
- A. WIDE FLANGE BEAMS AND WWE SECTIONS -- CSA G40.21 350W MISCELLANEOUS ROLLED SECTIONS (EXCEPT WIDE FLANGES) ---CSA G40.21 300W A. HOLLOW STRUCTURAL SECTIONS
- CSA G40.21 350W (CLASS C U.N.O.) ----ROLLED PLATES --- CSA G40.21 350W C. BOLTS (SEE PLANS AND DETAILS) ------ ASTM A325 OR ASTM A490 D. STRUCTURAL STEEL ANCHOR RODS (U.N.O.) - ASTM F1554 GRADE
- SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION.
- 3. FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN

36 MINIMUM

- ACCORDANCE WITH CAN/CSA-S16. FILLET WELDS SHALL BE 5mm MINIMUM U.N.O.
- BOLTS SHALL BE A325 19mm Ø MINIMUM U.N.O.
- 6. IF THE SIZE OF STRUCTURAL STEEL MEMBER INDICATED ON THE DRAWING IS NOT AVAILABLE, IT IS EXPECTED THAT THE NEXT HIGHER SECTION IS USED.

## OR BLOCK LINTELS

OR BLOCK LI	NTELS		
CLEAR SPAN mm (ft-in)	WALL THICKNESS mm (inches)	DEPTH mm (inches)	REINFORCING (TOP AND BOTTOM)
	140 (6")	200 (8")	1-10M
UP TO 1200 (4'-0)	190 (8")	200 (8")	1-15M
(4-0)	240 (10")	200 (8")	1-15M
	290 (12")	200 (8")	1-15M
	140 (6")	300 (12")	1-15M
1201 TO 1800 (4'-0 TO 6'-0)	190 (8")	300 (12")	1-15M
(4-0106-0)	240 (10")	300 (12")	1-15M
	290 (12")	300 (12")	1-15M
	140 (6")	400 (16")	1-15M
1801 TO 2400 (6'-0 TO 8'-0)	190 (8")	400 (16")	2-15M
(0-0100-0)	240 (10")	400 (16")	2-15M
	290 (12")	300 (12")	2-15M
	140 (6")	600 (24")	1-20M
2401 TO 3000 (8'-0 TO 10'-0)	190 (8")	600 (24")	2-15M
(0 0 10 10-0)	240 (10")	400 (16")	2-15M



TYPICAL CHANNEL SUPPORT TO MASONRY WALL



# DESIGN CRITERIA GOVERNING BUILDING CODE ONTARIO BUILDING CODE 2012 BUILDING IMPORTANCE: NORMAL FLOOR LOADING REFER TO PLAN NOTES 0.47kPa SNOW LOAD 0.4kPa SEISMIC DATA 2% / 50 yrs 'D' (ASSUMED) BUILDING PERIOD= METHOD OF ANALYSIS= IeFaSa (0.2) = 0.11 < 0.35 SEISMIC RESTRAINT SYSTEM AS PER OBC 2012 CL.4.1.8.18 (2) -NOT REQUIRED FOR ELEMENTS 6 THROUGH 21 OF TABLE 4.1.8.18

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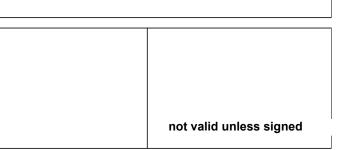
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**ENGINEERING DONE UPRIGHT** 

310 CHRISTINA STREET, SARNIA, ONTARIO



**UNITED RENTALS** 1315 LOUGAR AVENUE, SARNIA, ONTARIO

ARCHITECT :

ROOF FRAMING PLAN

DATE:	July 2023	SCALE: As indicated
DESIGNED BY:	G. Dale	DRAWING NO :
DRAWN BY:	Unnati C.	S1
PROJ .NO	230250	